

# South Shore Vocational Technical High School Hanover, MA



## MSBA Module 3.1 –Preliminary Design Program OCTOBER 27, 2023



DRA

**Drummey Rosane Anderson, Inc.**  
Planning | Architecture | Interior Design



Preliminary Design Program  
OPM Cover Letter



October 27, 2023

Ms. Allison Sullivan, Sr. Project Coordinator  
Ms. Veatriki Dagkalakou, Senior Project Manager  
Massachusetts School Building Authority  
40 Broad Street; Suite 500  
Boston, MA 02109

RE: South Shore Regional Vocational Technical High School Feasibility Study  
Preliminary Design Program Submission

Dear Ms. Sullivan and Ms. Dagkalakou,

I, Jennifer Carlson, have reviewed the enclosed information and certify to the best of my knowledge and belief that the information is accurate and complete apart from the following:

PDP Clarifications:

- 1- A certified copy of the October 24, 2023, School Building Committee Meeting Minutes will be forwarded separately as an addendum to this PDP, once approved by the Building Committee at their November meeting.
- 2- Under separate cover, an original, fully executed Local Action Letter has been mailed to the attention of Allison Sullivan at the MSBA.
- 3- A printed, bound copy of the PDP will be delivered to your attention next week.

Please feel free to contact me with any questions you may have regarding the enclosed information. On behalf of the South Shore Regional School District, South Shore Regional School Committee, the South Shore Tech School Building Committee, and the project team, we look forward to discussing any questions you may have.

Sincerely,  
**Leftfield, LLC**



Jennifer Carlson  
Project Director

Attachments: Preliminary Design Submission  
Excel file of the PDP space summaries, under separate cover [email]

cc: Superintendent Dr. Thomas Hickey – South Shore Regional District Superintendent  
Mr. Robert Heywood, Chair – South Shore Tech School Building Committee



## Module 3.1 Preliminary Design Program OPM Cover Letter

### Table of Contents

#### 3.1.1 Introduction

##### 3.1.1.1 Project Summary

- General Information

- Timeline of Past Events

- Overview of PDP Process

- Facility Deficiencies

- Educational Deficiencies

- 3.1.1.2 Date of Invitation to Conduct Feasibility Study and MSBA Board Action Letter

- 3.1.1.3 Agreed Upon Design Enrollment

- 3.1.1.4 Capital Budget Statement

- 3.1.1.5 Project Directory

- 3.1.1.6 Project Schedule

#### 3.1.2 Educational Program

#### 3.1.3 Initial Space Summary

- 3.1.3.1 and 3.1.3.3 MSBA Space Summary Tables and Narratives

  - Initial Space Summary-Enrollment 805 Students

  - Variations from Guidelines Narrative-Enrollment 805

  - Initial Space Summary-Enrollment 900 Students

  - Variations from Guidelines Narrative -Enrollment 900

  - Initial Space Summary-Enrollment 975 Students

  - Variations from Guidelines Narrative -Enrollment 975

- 3.1.3.2 Program Area Plans of Existing Facility

#### 3.1.4 Evaluation of Existing Conditions

- 3.1.4 General Information

  - 3.1.4.1 Evidence that the District Has Legal Title to the Property

  - 3.1.4.2 Determination that the Property is Available for Development

  - 3.1.4.3 Determination of Historic Restrictions

  - 3.1.4.4 Determination of Development Restrictions

  - 3.1.4.5 Initial Evaluation of Existing Facility For Building Code Compliance

  - 3.1.4.6 Initial Evaluation of Existing Facility For AAB Compliance

  - 3.1.4.7 Preliminary Physical Conditions Evaluation of Existing Facility

  - 3.1.4.8 Determination for Need and Schedule for Soils Exploration and Geotechnical Evaluation

  - 3.1.4.9 Phase I Environmental Assessment

  - 3.1.4.10 Hazardous Materials Assessment

  - 3.1.4.11 Existing Conditions Information Provided by the District and Space Analysis Plans





### 3.1.5 Site Development Requirements

#### 3.1.5.1 Narratives

- Civil Narrative
- Landscape Narrative
- Preliminary Traffic Report

#### 3.1.5.2 Existing Site Plan

### 3.1.6 Preliminary Evaluation of Alternatives

#### 3.1.6.1 Assignment Practices and Other Available Space

#### 3.1.6.2 Tuition Agreements

#### 3.1.6.3 Building Rental or Acquisition

#### 3.1.6.4 Base Building Repair Option

- Base Building Repair Narrative
- Base Building Repair Estimate

#### Overview of Addition-Renovation and New Construction Options

- Gross Floor Area Comparative Summary
- Construction Costs Comparative Summary
- PDP Estimate

Enrollment 645 Students

Enrollment 750 Students

Enrollment 805 Students

Enrollment 900 Students

Enrollment 975 Students

#### 3.1.6.5 Renovation and Addition Options

##### Proposed Construction Phasing Diagram

##### Option AR.1 "L-Shaped"

Narrative

Drawings

##### Option AR.2 "Lightwell"

Narrative

Drawings

#### 3.1.6.6 New Construction Options

##### Option NC.1 "Courtyard"

Narrative

Drawings

##### Option NC.2 "Linear"

Narrative

Drawings

##### Option NC.3 "Wings"

Narrative

Drawings



- 3.1.6.7 Comparative Evaluation of Alternatives
  - Comparative Evaluation of Alternatives Matrix
  - Options for Further Consideration

### **3.1.7 Local Actions and Approval Certifications**

- 3.1.7.1 Certified School Building Committee Minutes
- 3.1.7.2 Signed Local Actions and Approvals

### **3.1.8 Appendices**

#### Appendix A: Detailed Evaluation of Existing Conditions

- A.a Civil
- A.b Landscape
- A.c Architecture
- A.d FFE Academic
- A.e FFE-Food Service
- A.f Building Code Compliance
- A.g Accessibility Audit
- A.h Structural
- A.i Fire Protection and Plumbing
- A.j Mechanical and Electrical
- A.k Information Technology and Security
- A.i Hazardous Materials

#### Appendix B: Educational Visioning

#### Appendix C: Phase 1 Environmental Report

#### Appendix D: Preliminary Geo-Technical Report

#### Appendix E: Statement Of Interest

#### Appendix F: MSBA Action Letter

#### Appendix G: Enrollment Certification

#### Appendix H: Not Used

#### Appendix I: Regional Agreement

#### Appendix H: Existing Conditions Documentation







**General Information:**

South Shore Vocational Technical High School, located at 476 Webster St., Hanover, Massachusetts, is a regional vocational technical high school South of Boston. The region includes the communities Abington, Cohasset, Hanover, Hanson, Norwell, Rockland, Scituate and Whitman. The District has recently amended its Regional Agreement to add the Town of Marshfield into the District.

Currently, the school serves approximately 645 students in grades 9 through 12. All students participate in 1 of 12 career technical programs, including:

- Allied Health
- Automotive
- Carpentry
- Computers and Information Technology
- Cosmetology
- Culinary
- Electrical
- Advanced Manufacturing & Engineering
- Graphics Communications
- Horticulture
- HVAC-R
- Metal Fabrications & Welding



The existing South Shore Vocational Technical High School is a single story building which opened its doors in 1962. Additions were constructed to the original building in 1978 and 1992. The campus also include several smaller out buildings, including a greenhouse, concessions building, maintenance buildings, and a storage barn. Connex boxes are used as supplemental storage for several shops.

The existing main building is a slab-on-grade, masonry-clad steel and concrete frame building with metal windows.

The building, consistent with its age, is in fair condition overall. Several components are not compliant with current building codes or best practices for safety and environmental conservation.

Several significant improvement have been made subsequent to construction of the main building including:

- Summer of 2018 – Fence Enclosure around the modulares.
- Fall of 2018 – Installation of Greenhouse.
- Fall of 2018 – Convert the barn into athletic locker use for teams sports.
- Summer of 2019 – Storefront replacement and security upgrades.
- Summer of 2020 – Add field lighting to existing football field.
- Summer of 2021 – Storefront replacement and metal panel replacement at the 1993 addition.

#### **Timeline of Past Events:**

The events and milestones leading up to this Preliminary Design Program (PDP) are listed in the following timeline. Refer also to the Project Schedule included within this section.

06/02/21

Submission of Statement of Interest (SOI) from South Shore Vocational Technical School District to Massachusetts School Building Authority.

10/26/2022

MSBA Invites the South Shore Vocational Technical School District into the Feasibility Study Program

02/08/2023

Owner selects Left Field as Owner’s Project Manager for the Project.

03/01/2023

RFS for Designer Services issued

04/25/2023

MSBA Designer Selection Panel meets with District and OPM to short list architectural firms for interviews

05/09/2023

MSBA Designer Selection Panel meets with District and OPM to conduct architectural firm interviews, DRA selected as Architect for the Project

07/18/2023

Kick off meeting with School Building Committee and DRA

05/31/2023 – 08/18/2023



Educational visioning sessions were run by DRA with New Vista Design, and attended by OPM, faculty, administration, community members, and students to review the Project's educational goals.

09/06/2023 – 09/08/2023

Multiple educational visioning sessions-DRA & OPM meet with faculty to discuss initial programming requirements, see Appendix B: Educational Visioning

09/08/2023 – 10/18/2023

Conceptual cost estimates produced for the 25 options.

10/24/2023

PDP with addition renovation options and new construction options presented to the School Building Committee for approval.

### Overview of PDP Process

The process leading up to the completion of this "Preliminary Design Program" has included the following activities:

**Building Committee Meetings** – have convened on a regular basis since the project inception. Meeting minutes have been well documented and distributed to stakeholders, see Appendix H.

**Working Group Meetings** – The design team has met with the working group including the Superintendent, and the Principal to review progress and guide the development of the Educational Program and Preliminary Options.

**Educational Visioning Workshops** – Educational visioning workshops were run by DRA with New Vista Design, with members of the South Shore Vocation Technical High School community including faculty, staff, students and community representatives. The sessions focused on topic centers such as overall planning, 21<sup>st</sup> Century Learning, Career/Technical & Academic curriculum and the educational program. See Appendix B: Educational Visioning for report summarizing these session.

**Programming Meetings** – Meetings with individual staff members, school administrators, OPM and DRA for discussions regarding spatial requirements, adjacencies, connections, equipment (especially vocational equipment), teaching aids, manipulatives, storage, etc. In addition to the discussions regarding the practical matters of space and relationships between spaces, there was also conversations regarding teaching and learning philosophies, passive learning opportunities, shared planning and individualized vs. group instruction.

### Facility Deficiencies

**Statement of Interest Summary** (see also Appendix E herein for SOI submitted by District) - The 06/02/2021 SOI indicates the following priorities:

- Elimination of severe overcrowding.
- Prevention of severe overcrowding expected to result from increased enrollments.
- Replacement, renovation or modernization of school facility systems, such as roofs, windows, boilers, heating and ventilation systems, to increase energy conservation and decrease energy related costs in a school facility.





- Replacement of or addition to obsolete buildings in order to provide for a full range of programs consistent with state and approved local requirements.

**Site:**

Stormwater, water and sanitary sewer utilities are likely inadequate for a larger facility. Parking is insufficient for expanded enrollments. Drainage at fields needs improvement; track needs to be expanded and resurfaced. Athletic field conditions are fair. Throughout the site, vehicular and pedestrian circulation needs attention; pavement and curbing materials are in fair condition.

**Building:**

Numerous deficiencies include both interior and exterior deterioration and non-compliance with building codes and other regulatory requirements.

For example:

- Fire suppression system not provided in majority of the building.
- Numerous MAAB accessibility violations
- Poor exterior envelope performance
- Some Vinyl tile floors contain asbestos
- Numerous mechanical and electrical systems are deficient.
- 1992 roof requires replacement.

See also:

Appendix A: Detailed Evaluation of Existing Conditions for detailed existing conditions assessments.

**Appendix E: Statement Of Interest****Educational Deficiencies**

The school lacks an adequate auditorium space for presentation and performance.

Several CTE shops lack direct access to an appropriate Related Classroom.

The current school lacks 21<sup>st</sup> century learning environments- there are no extended learning areas for collaboration, no small group breakout areas.

Public access to the Culinary Arts café and the Cosmetology salon, is encouraged but unsupervised. There are security concerns to limit access through the building by the general public.

**3.1.1.2 Date of the Invitation to Conduct Feasibility Study**

At the April 2021 MSBA Board of Director's meeting, the MSBA Board voted to issue an invitation to the Owner to conduct a feasibility study to identify possible solutions and, through a collaborative process with the MSBA, reach a mutually agreed upon solution.

**MSBA Board Action Letter**

See Appendix F: MSBA Action Letter



### 3.1.1.3 Agreed Upon Design Enrollment

Design alternatives will be evaluated for the following Grades 9-12 enrollments per MSBA Enrollment Certification:

- 645 Students (current enrollment)
- 750 Students (Enrollment between 645 and 805)
- 805 Students (proposed expansion of Chapter 74 programming, current district membership)
- 900 Students (Enrollment between 805 and 975)
- 975 Students (proposed expansion of Chapter 74 programming, expanded district membership)

Massachusetts School Building Authority South Shore Regional Vocational Technical School district South Shore Technical High School Study Enrollment Certification is included in Appendix-G.

### Project Directory & Project Schedule

A copy of the project directory with contact information for project representatives for the district, the Designer, and Owner's Project Manager can be found on the following several pages. An updated schedule developed by the Owner's Project Manager concludes this section.

**Key delivery dates are as follows:**

- PDP Submission: 10/25/2023
- PSR Submission: 01/31/2024
- Schematic Design Submission: 06/27/2024
- Special Town Meeting / Funding Appropriations: To be determined by the District School Committee and confirmed with the Sending Community Town Meetings for Fall 2024, or District-wide vote in January 2025.

### 3.1.1.4 Capital Budget Statement

The preliminary project costs for the 25 options range from \$278 million to \$391 million [Please refer to the Target Budget section below], depending on the final preferred alternative chosen. The project is expected to either go to each sending community's Town Meeting for approval, or go to a District-wide ballot vote during the Winter of 2024/2025. The nine member communities that comprise the Regional District are Abington, Cohasset, Hanover, Hanson, Marshfield Norwell, Rockland, Scituate and Whitman. The local share of debt service is planned to be allocated through regional assessment and funded via debt exclusions supported by the tax levy of member towns as indicated in the attached Establishment of a Regional School District Agreement ("the Agreement"), dated July 6, 2023, which replaced the previous agreement approved in 2018 and all other agreements or amendments.

Excerpts of the Agreement read as follows:

Section V.C. Capital Costs:

(1) Capital costs shall include all expenses described in DESE's Chart of Accounts in the 7000-function code.

(2) Apportionment of Capital Costs:



Capital costs will be apportioned for the ensuing fiscal year as follows: Each member town's share of the capital costs shall be determined by computing the ratio which the sum of its October 1st SIMS enrollments of the three fiscal years immediately preceding the year in which the Committee votes to include capital cost in the budget bears to the sum of the October 1st SIMS enrollments of all the member towns of the same three fiscal years. For the purpose of this clause, pupil enrollments shall be defined as the number of pupils in grades nine through twelve (9 – 12), inclusive, residing in each member town and receiving education in the District at such town's expense. It is acknowledged that during the pending Preferred Schematic Report (PSR) Phase, as the preferred options are further analyzed, that additional focus will be placed on operational cost drivers and variances from the current facility beyond physical plant costs.

### **Target Budget**

At this time, the target budget is considered as a target range due to the fact that the District has not selected the preferred option, refined the gross square footage of the program/design, finalized the project location on the site, site improvements, and limits of the project on the campus. However, based on LeftField's comparable-probable cost analysis, the District fully understands each option's potential total project cost. Please refer to the following charts below, showing anticipated total project costs for all 25 options.







# Preliminary Options – Construction Costs

Student Enrollment Range: 645 - 975 Students	645 Students			750 Students		
	New* (all 3 options)	Add/Reno AR1 L Shape	Add Reno AR2 Lightwell	New* (all 3 options)	Add/Reno AR1 L Shape	Add Reno AR2 Lightwell
<b>TOTAL DIRECT COSTS</b>	<b>\$ 140,095,980</b>	<b>\$ 122,836,000</b>	<b>\$ 114,940,000</b>	<b>\$ 157,349,790</b>	<b>\$ 135,168,000</b>	<b>\$ 125,993,000</b>
Contingencies, General Requirments, General Conditions, Insurance, Bonds, CM Fee	\$ 54,109,800	\$ 57,169,900	\$ 52,820,700	\$ 60,773,900	\$ 62,714,600	\$ 57,788,300
Modular Classrooms	\$ -	\$ 9,350,000	\$ 5,500,000	\$ -	\$ 9,350,000	\$ 5,500,000
Phasing / Scheduling Premium	\$ -	\$ 1,960,000	\$ 1,800,000	\$ -	\$ 2,150,000	\$ 1,960,000
Escalation	\$ 40,784,000	\$ 51,656,000	\$ 47,267,000	\$ 45,806,000	\$ 56,534,000	\$ 51,636,000
<b>TOTAL ESTIMATED CONSTRUCTION COSTS</b>	<b>\$ 234,989,780</b>	<b>\$ 242,971,900</b>	<b>\$ 222,327,700</b>	<b>\$ 263,929,690</b>	<b>\$ 265,916,600</b>	<b>\$ 242,877,300</b>
Soft Costs Calculated at 25%	\$ 58,747,445	\$ 60,742,975	\$ 55,581,925	\$ 65,982,423	\$ 66,479,150	\$ 60,719,325
<b>TOTAL ESTIMATED PROJECT COSTS</b>	<b>\$ 293,737,225</b>	<b>\$ 303,714,875</b>	<b>\$ 277,909,625</b>	<b>\$ 329,912,113</b>	<b>\$ 332,395,750</b>	<b>\$ 303,596,625</b>

The estimated construction and total project cost provided are for COMPARISON PURPOSES ONLY. The estimated costs will be updated at the Preliminary Schematic Report (PSR) phase to assist the committee in defining the single preferred solution to proceed into the Schematic Design (SD) phase. The actual costs and total project budget will be established at the end of the Schematic Design (SD) phase for the district's preferred solution.

\*Costs are the same across all New Construction Options for each enrollment - shown as a single cost for simplicity.

\*\*Costs based on CM at Risk delivery method to simplify comparison



# Preliminary Options – Construction Costs

Student Enrollment Range: 645 - 975 Students	805 Students			900 Students		
	New* (all 3 options)	Add/Reno AR1 L Shape	Add Reno AR2 Lightwell	New* (all 3 options)	Add/Reno AR1 L Shape	Add Reno AR2 Lightwell
<b>TOTAL DIRECT COSTS</b>	<b>\$ 164,160,000</b>	<b>\$ 142,658,000</b>	<b>\$ 130,559,000</b>	<b>\$ 175,474,000</b>	<b>\$ 149,949,000</b>	<b>\$ 141,157,000</b>
Contingencies, General Requirments, General Conditions, Insurance, Bonds, CM Fee	\$ 63,403,600	\$ 66,081,000	\$ 59,842,100	\$ 67,773,900	\$ 69,359,500	\$ 64,607,000
Modular Classrooms	\$ -	\$ 9,350,000	\$ 5,500,000	\$ -	\$ 9,350,000	\$ 5,500,000
Phasing / Scheduling Premium	\$ -	\$ 2,260,000	\$ 2,030,000	\$ -	\$ 2,370,000	\$ 2,190,000
Escalation	\$ 47,789,000	\$ 59,495,000	\$ 53,442,000	\$ 51,083,000	\$ 62,378,000	\$ 57,633,000
<b>TOTAL ESTIMATED CONSTRUCTION COSTS</b>	<b>\$ 275,352,600</b>	<b>\$ 279,844,000</b>	<b>\$ 251,373,100</b>	<b>\$ 294,330,900</b>	<b>\$ 293,406,500</b>	<b>\$ 271,087,000</b>
Soft Costs Calculated at 25%	\$ 68,838,150	\$ 69,961,000	\$ 62,843,275	\$ 73,582,725	\$ 73,351,625	\$ 67,771,750
<b>TOTAL ESTIMATED PROJECT COSTS</b>	<b>\$ 344,190,750</b>	<b>\$ 349,805,000</b>	<b>\$ 314,216,375</b>	<b>\$ 367,913,625</b>	<b>\$ 366,758,125</b>	<b>\$ 338,858,750</b>

The estimated construction and total project cost provided are for COMPARISON PURPOSES ONLY. The estimated costs will be updated at the Preliminary Schematic Report (PSR) phase to assist the committee in defining the single preferred solution to proceed into the Schematic Design (SD) phase. The actual costs and total project budget will be established at the end of the Schematic Design (SD) phase for the district's preferred solution.

\*Costs are the same across all New Construction Options for each enrollment - shown as a single cost for simplicity.

\*\*Costs based on CM at Risk delivery method to simplify comparison



# Preliminary Options – Construction Costs

Student Enrollment Range: 645 - 975 Students	975 Students		
	New* (all 3 options)	Add/Reno AR1 L Shape	Add Reno AR2 Lightwell
<b>TOTAL DIRECT COSTS</b>	<b>\$ 185,592,800</b>	<b>\$ 157,224,000</b>	<b>\$ 145,672,000</b>
Contingencies, General Requirments, General Conditions, Insurance, Bonds, CM Fee	\$ 71,787,800	\$ 73,431,000	\$ 66,637,200
Modular Classrooms	\$ -	\$ 13,200,000	\$ 5,500,000
Phasing / Scheduling Premium	\$ -	\$ 2,530,000	\$ 2,260,000
Escalation	\$ 54,109,000	\$ 66,524,000	\$ 59,419,000
<b>TOTAL ESTIMATED CONSTRUCTION COSTS</b>	<b>\$ 311,489,600</b>	<b>\$ 312,909,000</b>	<b>\$ 279,488,200</b>
Soft Costs Calculated at 25%	\$ 77,872,400	\$ 78,227,250	\$ 69,872,050
<b>TOTAL ESTIMATED PROJECT COSTS</b>	<b>\$ 389,362,000</b>	<b>\$ 391,136,250</b>	<b>\$ 349,360,250</b>

The estimated construction and total project cost provided are for COMPARISON PURPOSES ONLY. The estimated costs will be updated at the Preliminary Schematic Report (PSR) phase to assist the committee in defining the single preferred solution to proceed into the Schematic Design (SD) phase. The actual costs and total project budget will be established at the end of the Schematic Design (SD) phase for the district’s preferred solution.

\*Costs are the same across all New Construction Options for each enrollment - shown as a single cost for simplicity.

\*\*Costs based on CM at Risk delivery method to simplify comparison





**South Shore Regional Vocational Technical High School - Hanover, MA  
Project Directory**

**COMMITTEE / BOARD / NAME**

**TITLE/ROLE**

**EMAIL**

**Updated: 2023-10-13**

**SOUTH SHORE TECH SCHOOL BUILDING COMMITTEE**

Thomas Hickey	District Superintendent	<a href="mailto:thickey@sstvotech.org">thickey@sstvotech.org</a>
Robert Heywood	SBC Chair, School Committee Member	<a href="mailto:rheywood@sstvotech.org">rheywood@sstvotech.org</a>
Robert Mahoney	School Committee Member	<a href="mailto:rmahoney@sstvotech.org">rmahoney@sstvotech.org</a>
Robert Molla	School Committee Member	<a href="mailto:rmolla@sstvotech.org">rmolla@sstvotech.org</a>
Jack Manning	School Committee Member	<a href="mailto:jmanning@sstvotech.org">jmanning@sstvotech.org</a>
Daniel Salvucci	School Committee Member	<a href="mailto:dsalvucci@sstvotech.org">dsalvucci@sstvotech.org</a>
George Cooney	School Committee Member	<a href="mailto:gcooney@sstvotech.org">gcooney@sstvotech.org</a>
Thomas Petruzzelli	School Committee Member	<a href="mailto:tpetruzzelli@sstvotech.org">tpetruzzelli@sstvotech.org</a>
Frank Molla Jr.	School Committee Member	<a href="mailto:fmolla@sstvotech.org">fmolla@sstvotech.org</a>
James Harding	Director of Building and Grounds	<a href="mailto:jharding@sstvotech.org">jharding@sstvotech.org</a>
Sandra Baldner	Principal	<a href="mailto:sbaldner@sstvotech.org">sbaldner@sstvotech.org</a>
Keith Boyle	Assistant Principal, Vocational Director	<a href="mailto:kboyle@sstvotech.org">kboyle@sstvotech.org</a>
Robert Mello	Dean of Students, Vocational Coordinator	<a href="mailto:rmello@sstvotech.org">rmello@sstvotech.org</a>
James Coughlin	Treasurer, School Committee Secretary	<a href="mailto:jcoughlin@sstvotech.org">jcoughlin@sstvotech.org</a>

**SOUTH SHORE TECH SCHOOL COMMITTEE**

Robert Heywood	School Committee Member - Hanover	<a href="mailto:rheywood@sstvotech.org">rheywood@sstvotech.org</a>
Robert Mahoney	Chairperson, School Committee Member - Rockland	<a href="mailto:rmahoney@sstvotech.org">rmahoney@sstvotech.org</a>
Robert Molla Jr.	School Committee Member - Norwell	<a href="mailto:rmolla@sstvotech.org">rmolla@sstvotech.org</a>
Jack Manning	School Committee Member - Scituate	<a href="mailto:jmanning@sstvotech.org">jmanning@sstvotech.org</a>
Daniel Salvucci	School Committee Member - Whitman	<a href="mailto:dsalvucci@sstvotech.org">dsalvucci@sstvotech.org</a>
George Cooney	School Committee Member - Cohasset	<a href="mailto:gcooney@sstvotech.org">gcooney@sstvotech.org</a>
Thomas Petruzzelli	Vice Chairperson, School Committee Member - Abington	<a href="mailto:tpetruzzelli@sstvotech.org">tpetruzzelli@sstvotech.org</a>
Frank Molla Jr.	School Committee Member - Hanson	<a href="mailto:fmolla@sstvotech.org">fmolla@sstvotech.org</a>

**South Shore Regional Vocational Technical High School - Hanover, MA  
Project Directory**

COMPANY / NAME	TITLE/ROLE	EMAIL	PHONE
<i>Updated: 2023-10-13</i>			
<b>MASSACHUSETTS SCHOOL BUILDING AUTHORITY</b>			
Veatriki Dagkalakou	Project Manager FS/SD	<a href="mailto:Veatriki.Dagkalakou@massschoolbuildings.org">Veatriki.Dagkalakou@massschoolbuildings.org</a>	617-720-4466
Allison Sullivan	Sr. Project Coordinator	<a href="mailto:Allison.Sullivan@massschoolbuildings.org">Allison.Sullivan@massschoolbuildings.org</a>	617-720-4466
<b>OPM - LEFTFIELD, LLC</b>			
Jim Rogers	Principal-In-Charge	<a href="mailto:jrogers@leftfieldpm.com">jrogers@leftfieldpm.com</a>	617-593-0661
Jen Carlson	Project Director	<a href="mailto:jcarlson@leftfieldpm.com">jcarlson@leftfieldpm.com</a>	774-262-9448
Linda Liporto	Sr. Project Manager	<a href="mailto:lliporto@leftfieldpm.com">lliporto@leftfieldpm.com</a>	617-224-8684
Adele Sands	Educational Liaison	<a href="mailto:asands@leftfieldpm.com">asands@leftfieldpm.com</a>	774-301-1352
Carlos Montanez	Mechanical Systems Specialist	<a href="mailto:cmontanez@leftfieldpm.com">cmontanez@leftfieldpm.com</a>	339-788-7550
<b>DESIGNER - DRA Architects</b>			
Carl R. Franceschi	Principal-in-Charge	<a href="mailto:CFranceschi@draws.com">CFranceschi@draws.com</a>	617-964-1700 x 111
Judd Christopher	Project Manager	<a href="mailto:JChristopher@draws.com">JChristopher@draws.com</a>	617-964-1700
Sarah Carda	Project Architect	<a href="mailto:SCarda@draws.com">SCarda@draws.com</a>	617-964-1700
Ann Marie Procopio	Director of Interior Design/Laboratory	<a href="mailto:AProcopio@draws.com">AProcopio@draws.com</a>	617-964-1700
Kenneth C. Best	Library/Media	<a href="mailto:KBest@draws.com">KBest@draws.com</a>	617-964-1700
<b>CONSULTANTS</b>			
Civil Engineering		McKenzie Engineering Group	
Landscape Architecture		Warner Larson	
Structural Engineering		Engineers Design Group	
Fire Protection Engineering		CA Crowley, Inc.	
Plumbing Engineering		CA Crowley, Inc.	
HVAC Engineering		Consulting Engineering Services	
Electrical/Lighting		Consulting Engineering Services	
Data/Communications		Communications Design Services	
Environmental Permitting		McKenzie Engineering Group	
Geotechnical Engineering		O'Reilly, Talbot & Okun	
Geoenvironmental		O'Reilly, Talbot & Okun	
Hazardous Materials		CDW Consultants, Inc.	
Cost Estimating		Ellana	
Kitchen/Food Service Consultant		Crabtree McGrath	
Laboratory Consultant		DRA Architects	
Acoustical Consultant		Acentech	

**South Shore Regional Vocational Technical High School - Hanover, MA  
Project Directory**

COMPANY / NAME	TITLE/ROLE	EMAIL	PHONE
<i>Updated: 2023-10-13</i>			
Specifications Consultant		Kalin Associates	
Library/Media		DRA Architects	
Technology / Audio Visual		Communications Design Services	
Theatrical Consultant		Studio T&L	
Sustainable/Green Design/Renewable Energy		VvS Architects & Consultants	
Code Consultant		Sullivan Code	
Accessibilty Consultant		Kessler McGuinness	
Traffic Consultant		Bryant Associates	
Furniture, Fixtures and Equipment		Point Line Space	
Site Surveying		McKenzie Engineering Group	
Security Consultant		Introba	





**SOUTH SHORE REGIONAL VOCATIONAL TECHNICAL HIGH SCHOOL**

**Preliminary Project Schedule**

9/30/2023

Task Name	Duration (days)	Start	Finish
<b>Procure OPM [MOD 2]</b>	<b>34</b>	<b>Thursday, January 5, 2023</b>	<b>Tuesday, February 7, 2023</b>
OPM interviews	1	Thursday, January 5, 2023	Thursday, January 5, 2023
OPM fee review & approval	33	Friday, January 6, 2023	Tuesday, February 7, 2023
MSBA OPM meeting approval	1	Monday, February 6, 2023	Monday, February 6, 2023
MSBA OPM letter issued	1	Tuesday, February 7, 2023	Tuesday, February 7, 2023
OPM contract executed	1	Tuesday, February 7, 2023	Tuesday, February 7, 2023
<b>Procure Architect [MOD 2]</b>	<b>115</b>	<b>Tuesday, February 7, 2023</b>	<b>Thursday, June 1, 2023</b>
Committee reviews & approves issuance RFS to the MSBA	1	Tuesday, February 7, 2023	Tuesday, February 7, 2023
LF issues RFS to the MSBA	1	Wednesday, February 8, 2023	Wednesday, February 8, 2023
MSBA-RFS review period	14	Wednesday, February 8, 2023	Tuesday, February 21, 2023
Finalize RFS with MSBA/BC	1	Tuesday, February 28, 2023	Tuesday, February 28, 2023
Ad submitted in Central Register & local newspaper	1	Thursday, February 23, 2023	Thursday, February 23, 2023
Select 3 members for DSP team / Assign DSP subcommittee	1	Tuesday, February 7, 2023	Tuesday, February 7, 2023
Ad appears in Central Register	1	Wednesday, March 1, 2023	Wednesday, March 1, 2023
On-Site RFS briefing	1	Tuesday, March 7, 2023	Tuesday, March 7, 2023
Receive RFS designer submissions	1	Thursday, March 30, 2023	Thursday, March 30, 2023
Review RFS & check references	13	Thursday, March 30, 2023	Tuesday, April 11, 2023
Submit initial RFS packets to the MSBA DSP	1	Tuesday, April 11, 2023	Tuesday, April 11, 2023
Submit reference check data to the MSBA DSP [MSBA deadline]	1	Tuesday, April 18, 2023	Tuesday, April 18, 2023
Designer Selection Panel Dry Run	1	Monday, April 24, 2023	Monday, April 24, 2023
Attend MSBA 1st DSP Meeting [assume rank and interview option is selected]	1	Tuesday, April 25, 2023	Tuesday, April 25, 2023
Attend MSBA 2nd DSP Meeting for Interviews	1	Tuesday, May 9, 2023	Tuesday, May 9, 2023
MSBA DSP issues official ranking and letter Re: Top Ranked Design Firm	1	Wednesday, May 10, 2023	Wednesday, May 10, 2023
Negotiate Designer Fee	17	Wednesday, May 10, 2023	Friday, May 26, 2023
Present designer contact to Building Committee	1	Friday, May 26, 2023	Friday, May 26, 2023
Designer contract - review by BC	7	Friday, May 26, 2023	Thursday, June 1, 2023
Designer contract - approval by BC	1	Thursday, June 1, 2023	Thursday, June 1, 2023
Execute Designer contact	1	Thursday, June 1, 2023	Thursday, June 1, 2023
Develop schedule/work plan	41	Thursday, June 1, 2023	Tuesday, July 11, 2023
BC approves work plan	1	Thursday, August 3, 2023	Thursday, August 3, 2023
MSBA/District kick off meeting	1	Tuesday, July 18, 2023	Tuesday, July 18, 2023
<b>FEASIBILITY STUDY [MOD 3]</b>	<b>329</b>	<b>Wednesday, May 31, 2023</b>	<b>Wednesday, April 24, 2024</b>
<b>Preliminary Design Program (PDP)</b>	<b>182</b>	<b>Wednesday, May 31, 2023</b>	<b>Wednesday, November 29, 2023</b>
Educational Programming	91	Wednesday, May 31, 2023	Tuesday, August 29, 2023
Ed. Visioning kick off meeting	1	Wednesday, May 31, 2023	Wednesday, May 31, 2023
Educational Visioning Group Workshop #1	1	Tuesday, June 20, 2023	Tuesday, June 20, 2023
Educational Visioning Group Workshop #2	1	Tuesday, July 11, 2023	Tuesday, July 11, 2023
Educational Visioning Public Forum	1	Thursday, July 13, 2023	Thursday, July 13, 2023
Educational Visioning Group Workshop #3	1	Tuesday, July 18, 2023	Tuesday, July 18, 2023
Teachers Workshop	1	Tuesday, August 29, 2023	Tuesday, August 29, 2023
EDUCATIONAL PLAN; Ed plan statement of teaching philosophy, methods and goals.	114	Wednesday, May 31, 2023	Thursday, September 21, 2023
Initial space summary ("ISS")	18	Tuesday, August 29, 2023	Friday, September 15, 2023
Evaluation of existing conditions	40	Monday, June 19, 2023	Friday, July 28, 2023
Meetings	304	Tuesday, February 7, 2023	Thursday, December 7, 2023
SBC #1 OPM Kickoff	1	Tuesday, February 7, 2023	Tuesday, February 7, 2023
SBC #2 Designer Selection Process	1	Thursday, June 1, 2023	Thursday, June 1, 2023

SBC #3	1	Thursday, August 3, 2023	Thursday, August 3, 2023
SBC #4	1	Thursday, September 7, 2023	Thursday, September 7, 2023
SBC #5 PDP Approval	1	Monday, October 23, 2023	Monday, October 23, 2023
SBC #6	1	Thursday, November 2, 2023	Thursday, November 2, 2023
SBC #7	1	Thursday, December 7, 2023	Thursday, December 7, 2023
<b>** Submit PDP to the MSBA **</b>	1	Wednesday, October 27, 2023	Wednesday, October 27, 2023
MSBA PDP Review	22	Wednesday, October 27, 2023	Wednesday, November 15, 2023
Receive MSBA PDP comments	1	Wednesday, November 15, 2023	Wednesday, November 15, 2023
District returns responses to MSBD PDP comments	1	Wednesday, November 29, 2023	Wednesday, November 29, 2023
<b>Preferred Schematic Report (PSR)</b>	182	Thursday, October 26, 2023	Wednesday, April 24, 2024
Prepare and Submit Project Notification to Mass Historical Commission and Receive MHC Response	37	Thursday, November 2, 2023	Friday, December 8, 2023
SBC Vote to Submit PSR	1	Thursday, December 14, 2023	Thursday, December 14, 2023
<b>*** Submit PSR to the MSBA ***</b>	1	Wednesday, January 31, 2024	Wednesday, January 31, 2024
MSBA Review Period	1	Wednesday, February 21, 2024	Wednesday, February 21, 2024
Respond to MSBA PSR review comments	1	Wednesday, March 6, 2024	Wednesday, March 6, 2024
MSBA Facilities Assessment Committee (FAS) review (3/13 or 3/27)	15	Wednesday, March 13, 2024	Wednesday, March 27, 2024
Respond to MSBA FAS Comments	8	Thursday, March 28, 2024	Thursday, April 11, 2024
<b>★★MSBA BOD Mtg - PSR - Proceed to Schematic★★ (TBD - 2024 dates not released)</b>	1	Wednesday, April 24, 2024	Wednesday, April 24, 2024
<b>Schematic Design [MOD 4]</b>	<b>246</b>	<b>Thursday, April 25, 2024</b>	<b>Thursday, December 26, 2024</b>
<b>DESE submittal (confirm submittal date with MSBA)</b>	22	Saturday, July 6, 2024	Saturday, July 27, 2024
MSBA Review of DESE Submittal	22	Sunday, July 28, 2024	Sunday, August 18, 2024
DESE Review and Approval	22	Monday, August 19, 2024	Monday, September 9, 2024
<b>Schematic Design Submittal</b>	64	Wednesday, April 24, 2024	Wednesday, June 26, 2024
SD Cost Estimates and Reconciliation	29	Friday, May 10, 2024	Friday, June 7, 2024
MSBA and Bond Counsel to Review Vote Language	15	Monday, June 3, 2024	Monday, June 17, 2024
SBC Vote to Approve SD Submission to MSBA	1	Monday, June 24, 2024	Monday, June 24, 2024
MSBA Schematic Design Notification	1	Tuesday, June 11, 2024	Tuesday, June 11, 2024
<b>** Schematic Submitted to the MSBA **</b>	1	Tuesday, June 25, 2024	Tuesday, June 25, 2024
MSBA Project Scope and Budget meeting (TBD - 2024 dates not released)	15	Thursday, July 18, 2024	Thursday, August 1, 2024
MSBA Review Comments Issued	22	Wednesday, June 26, 2024	Wednesday, July 17, 2024
Respond to MSBA Comments	15	Thursday, July 18, 2024	Thursday, August 1, 2024
<b>★★MSBA BOD Meeting - SD Approval★★ (TBD - 2024 dates not released)</b>	1	Wednesday, August 28, 2024	Wednesday, August 28, 2024
120-day duration to secure funding authorization	121	Wednesday, August 28, 2024	Thursday, December 26, 2024
District executes PSBA	8	Friday, August 2, 2024	Friday, August 9, 2024
<b>★★District Wide Ballot OR 9 Town Approvals★★ (exact date or dates TBD)</b>	26	Sunday, December 1, 2024	Thursday, December 26, 2024
<b>★★Execute PFA★★</b>	1	Thursday, December 26, 2024	Thursday, December 26, 2024
<b>CM PROCUREMENT [applicable if committee decides to utilize CM-R methodology]</b>	<b>165</b>	<b>Thursday, November 2, 2023</b>	<b>Monday, April 15, 2024</b>
SBC Approves Use of CM at Risk Delivery & Selection Committee	1	Thursday, November 2, 2023	Thursday, November 2, 2023
Prequalification Committee is formed (PQC)	1	Thursday, December 14, 2023	Thursday, December 14, 2023
Selection Committee is formed (SC)	1	Thursday, December 14, 2023	Thursday, December 14, 2023
CM at Risk Application & Submit to OIG (If Applicable)	1	Monday, November 20, 2023	Monday, November 20, 2023
Office of Inspector General Review & Approval	1	Monday, December 18, 2023	Monday, December 18, 2023
CM at Risk RFQ Issued	1	Monday, January 15, 2024	Monday, January 15, 2024
CM at Risk SOOs Due	1	Monday, February 12, 2024	Monday, February 12, 2024
CM at Risk RFP Issued	1	Monday, February 26, 2024	Monday, February 26, 2024
CM at Risk Proposals Due	1	Monday, March 18, 2024	Monday, March 18, 2024
CM at Risk Interviews (notify CMs that all will be interviewed on this date in RFP)	1	Monday, April 1, 2024	Monday, April 1, 2024
CM at Risk Award / Notice to Proceed	1	Monday, April 15, 2024	Monday, April 15, 2024
Preconstruction	784	Monday, April 15, 2024	Monday, June 8, 2026

<b>Design Development</b>	<b>177</b>	<b>Thursday, January 2, 2025</b>	<b>Friday, June 27, 2025</b>
Design Development Documents	106	Thursday, January 2, 2025	Friday, April 18, 2025
DD Cost Estimate	21	Friday, April 18, 2025	Friday, May 9, 2025
DD Value Engineering and Reconciliation	14	Saturday, May 10, 2025	Friday, May 23, 2025
<b>** Submit DD package to MSBA **</b>	1	Friday, May 23, 2025	Friday, May 23, 2025
MSBA Issues Comments	22	Friday, May 23, 2025	Friday, June 13, 2025
Response to MSBA Comments	14	Friday, June 13, 2025	Friday, June 27, 2025
<b>CD 60% Phase_MSBA Submission</b>	<b>160</b>	<b>Friday, June 27, 2025</b>	<b>Thursday, December 4, 2025</b>
Develop CD 60% Documents	91	Friday, June 27, 2025	Thursday, September 25, 2025
CD 60% Cost Estimate	21	Thursday, September 25, 2025	Thursday, October 16, 2025
CD 60% VE and Reconciliation	14	Thursday, October 16, 2025	Thursday, October 30, 2025
<b>** Submit 60% CD MSBA submission **</b>	1	Thursday, October 30, 2025	Thursday, October 30, 2025
MSBA Issues Comments	21	Thursday, October 30, 2025	Thursday, November 20, 2025
Response to MSBA Comments	14	Thursday, November 20, 2025	Thursday, December 4, 2025
<b>CD 90% Phase_MSBA Submission</b>	<b>133</b>	<b>Thursday, December 4, 2025</b>	<b>Thursday, April 16, 2026</b>
Develop CD 90% Documents	63	Thursday, December 4, 2025	Thursday, February 5, 2026
CD 90% Cost Estimate	21	Thursday, February 5, 2026	Thursday, February 26, 2026
CD 90% VE and Reconciliation	14	Thursday, February 26, 2026	Thursday, March 12, 2026
<b>** Submit 90% CD MSBA submission **</b>	1	Thursday, March 12, 2026	Thursday, March 12, 2026
MSBA Issues Comments	21	Thursday, March 12, 2026	Thursday, April 2, 2026
Response to MSBA Comments	14	Thursday, April 2, 2026	Thursday, April 16, 2026
<b>Final 100% CD MSBA submission - for record only</b>	<b>41 days</b>		
100% CD drawings developed	45	Thursday, April 16, 2026	Sunday, May 31, 2026
Prepare 100% CDs for Final Bidding	8	Sunday, May 31, 2026	Monday, June 8, 2026
<b>** Submit 100% CD (Bid) drawings/specs/GMP to MSBA ** FOR RECORD</b>	1	Monday, June 8, 2026	Monday, June 8, 2026
<b>PERMITTING - STATE and LOCAL JURISDICTIONAL APPROVALS</b>	<b>459</b>	<b>Thursday, October 30, 2025</b>	<b>Monday, February 1, 2027</b>
Zoning Board of Appeals	98	Thursday, December 4, 2025	Thursday, March 12, 2026
Notice of Intent to Conservation Commission (Review based on Preliminary Site Design w/ Final Site Design due at 60% CDs)	1	Thursday, October 30, 2025	Thursday, October 30, 2025
NPDS Construction General Permit	45	Thursday, April 16, 2026	Sunday, May 31, 2026
EPA-NPDES / SWPPP	25	Sunday, May 31, 2026	Thursday, June 25, 2026
Permits from Town Engineering Dept.	45	Thursday, April 16, 2026	Sunday, May 31, 2026
Special Permit to Planning Dept.	35	Thursday, September 25, 2025	Thursday, October 30, 2025
Building Permit	246	Sunday, May 31, 2026	Monday, February 1, 2027
<b>Bidding</b>			
Early Site Work Bid Period (after 60% CDs, if possible)	28	Thursday, November 20, 2025	Thursday, December 18, 2025
Award Early Package Contract	1	Thursday, December 18, 2025	Thursday, December 25, 2025
Main Bid Period	30	Monday, June 8, 2026	Wednesday, July 8, 2026
Final GMP	28	Wednesday, July 8, 2026	Wednesday, August 5, 2026
<b>Construction</b>	<b>1469</b>	<b>Thursday, December 25, 2025</b>	<b>Wednesday, January 2, 2030</b>
Early Mobilization	28	Thursday, December 25, 2025	Thursday, January 22, 2026
Early Site Work Construction (if possible)	167	Thursday, January 22, 2026	Wednesday, July 8, 2026
Main Construction	842	Wednesday, July 8, 2026	Friday, October 27, 2028
<b>Building Substantial Completion</b>	1	Friday, October 27, 2028	Friday, October 27, 2028
FFE Installation	49	Friday, October 27, 2028	Friday, December 15, 2028
Punchlist	49	Friday, October 27, 2028	Friday, December 15, 2028
Final Completion of New School	1	Monday, December 18, 2028	Monday, December 18, 2028
Teacher Move-In	14	Monday, December 18, 2028	Monday, January 1, 2029
<b>School Opening</b>	1	Tuesday, January 2, 2029	Tuesday, January 2, 2029
Building Demo and Field Construction (if applicable)	365	Tuesday, January 2, 2029	Wednesday, January 2, 2030

<b>Project Closeout Phase</b>	<b>118</b>	<b>Wednesday, January 2, 2030</b>	<b>Tuesday, April 30, 2030</b>
Prepare and Submit Closeout Documents	90	Wednesday, January 2, 2030	Tuesday, April 2, 2030
Final Application for Payment	1	Tuesday, April 2, 2030	Tuesday, April 2, 2030
Submit 100% DCAMM Contractor Evaluations	7	Tuesday, April 2, 2030	Tuesday, April 9, 2030
Final Reimbursement Request	1	Tuesday, April 9, 2030	Tuesday, April 9, 2030
MSBA Closeout Documents Submitted	21	Tuesday, April 9, 2030	Tuesday, April 30, 2030
<b>LEED</b>	<b>1716</b>	<b>Thursday, January 2, 2025</b>	<b>Friday, September 14, 2029</b>
LEED Registration	21	Thursday, January 2, 2025	Thursday, January 23, 2025
LEED Kick-Off Meeting	1	Thursday, January 30, 2025	Thursday, January 30, 2025
Submit Design Submittal to USGBC	1	Monday, June 8, 2026	Monday, June 8, 2026
Final LEED 10-Month Cx Report	300	Friday, October 27, 2028	Thursday, August 23, 2029
Final Cx Report, Cx Completion Certificate	7	Friday, August 24, 2029	Friday, August 31, 2029
Construction Submittal to USGBC	14	Friday, August 31, 2029	Friday, September 14, 2029
Targeted Date of LEED Certification Letter	1	Friday, September 14, 2029	Friday, September 14, 2029
<b>DCAMM Documentation</b>	<b>960</b>	<b>Monday, June 8, 2026</b>	<b>Tuesday, January 23, 2029</b>
Designer evaluation for Design Phase	21	Monday, June 8, 2026	Monday, June 29, 2026
Designer evaluation for CA Phase	21	Friday, October 27, 2028	Friday, November 17, 2028
Contractor 50% evaluation	21	Thursday, September 2, 2027	Thursday, September 23, 2027
Contractor 100% evaluation	21	Tuesday, January 2, 2029	Tuesday, January 23, 2029





# South Shore Regional Vocational Technical High School

## 3.1.2 Educational Program

Submitted by:

Thomas J. Hickey, Superintendent-Director

Sandra Baldner, Principal

Keith Boyle, Assistant Principal/Director of Vocational Education

Crystal Paluzzi, Director of Technology

Katherine Berry, Director of Special Education

Robert Mello, Director of Off Campus Education and Special Projects

John Scopelleti, Director of Curriculum, Instruction, Assessment and PD

Amy Dow, Director of Guidance and Admissions

Deborah Beary, Director of Food Service

*SST's mission is to develop confident, civic-minded students through rigorous and relevant hands-on instructional experiences so they can achieve ambitious career goals leading to their personal fulfillment, economic independence, and positive impact on their community.*

October 23, 2023

# Table of Contents

- I. Introduction
  - A. Typical Student Day
  - B. After School Activities and Events
  - C. Buildings and Grounds
  - D. Offices
  
- II. School Information
  - A. Background and Vision
    - 1. Priorities and Considerations
    - 2. Priority Educational Focus Areas
    - 3. SST Future Ready Learning Goals
    - 4. Designing 21st century Design Patterns
    - 5. Guiding Principles
  - 3.1.2.1** B. Grade and School Configuration Policies
    - 1. Current School
    - 2. Proposed School
  - 3.1.2.2** C. Class Size Policies
  - 3.1.2.3** D. School Scheduling Method
  - 3.1.2.4** E. Teaching Methodology and Structure
    - 1. Programs
    - 2. Administration and Department Leadership
    - 3. Curriculum and Instruction
    - 4. Promotion/Graduation Requirements
    - 5. English Language Arts/Literacy
    - 6. Mathematics
    - 7. Science
    - 8. Social Studies
    - 9. World Language
    - 10. Physical Education/Health and Wellness
    - 11. Athletics
    - 12. Student Guidance, Admissions and Support Services
  - 3.1.2.5** F. Teacher Planning and Room Assignment Policies
  - 3.1.2.6** G. Pre-Kindergarten Program
  - 3.1.2.7** H. Kindergarten Program
  - 3.1.2.8** I. Breakfast/Lunch Programs
  - 3.1.2.9** J. Technology Instruction Policies and Program Requirements
  - 3.1.2.11** K. Art Program
  - 3.1.2.12** L. Music/Performing Arts Program

- 3.1.2.10** M. Library/Media Center
- 3.1.2.14** O. Special Education
  - P. Target Service Programs
    - 1. MCAS Support
    - 2. After School Homework Club
    - 3. English Language Learner Support
  - Q. Health Services/School Nurse
- 3.1.2.15** R. Vocational Education Programs
  - 1. Current Conditions and Impact for Design
    - a. Allied Health
    - b. Automotive
    - c. Carpentry
    - d. Computer Information Technology
    - e. Cosmetology
    - f. Culinary Arts
    - g. Electrical
    - h. Manufacturing Engineering Technology
    - i. Graphic Communications DVC
    - j. Horticulture Landscape Construction
    - k. HVAC-R
    - l. Metal Fabrication
  - 2. Additional Considerations for Chapter 74 Space
    - a. Expansion of Chapter 74 Programs
    - b. Skills USA/FFA
    - c. Cooperative Education/Internships
- 3.1.2.16** S. Transportation Policies
- 3.1.2.17** T. Functional & Spatial Relationships
  - U. Key Programmatic Adjacencies
- 3.1.2.18** W. Security/Visual Access Requirements
  - 1. Relationship with Host Community
  - 2. Committees, Plans and Inspections
  - 3. Doors, Entrances, Visitors and Perimeter Security
  - 4. Parking and Car Access



**I. Introduction**

The South Shore Regional Vocational School District (“District”) opened the doors of South Shore Regional Vocational Technical High School (“SST”) in 1962 and graduated its first class in 1964. The school is located at 476 Webster Street, Hanover and sits on 35 acres. The original building along with additions in 1978 and 1992 encompass 130,000 square feet.

As of July 1, 2024 SST will serve students from nine communities: Abington, Cohasset, Hanover, Hanson, Marshfield, Norwell, Rockland, Scituate, Whitman; Marshfield will become the ninth member town on July 1, 2024.

Recent enrollment trends show that over 70% of the in district enrollment has come from Abington, Rockland, Whitman and Hanson. For the 22-23 school year, the town specific enrollment was:

Abington	103	Duxbury	7
Cohasset	11	Halifax	1
Hanover	67	Hingham	4
Hanson	86	Hull	2
Norwell	26	Marshfield	8
Rockland	136	Pembroke	10
Scituate	40	Quincy	1
Whitman	151	<b>OOD Total</b>	<b>33</b>
<b>In District Total</b>	<b>620</b>	<b>Total Enrollment</b>	<b>653</b>

SST has 12 vocational technical programs (housed in 14 shop footprints; Automotive and MET have two footprints each) and five academic departments. There are 20 classrooms used for academic and Chapter 74 Related (theory) classes, four fully furnished science labs, and two former classroom spaces that are being used for the teachers room and space for the athletic trainer. Other spaces include a single gymnasium, a cafeteria, a 65 seat lecture hall which shares space with the library media center.

**A. Typical student day**

Students follow an alternating week academic/vocational schedule, with 9th and 11th graders scheduled in academics on “A” cycle and shop on “B” cycle, and 10th and 12th graders scheduled in shop on “A” cycle and academics on “B” cycle.

During the academic week, a student will attend 4 classes following a schedule similar to that below:

7:20 AM - 7:35 AM	Breakfast available
7:40 AM - 9:00 AM	Block 1 class

9:04 AM - 10:24 AM	Block 2 class
10:28 AM - 12:17 PM	Block 3 class and lunch
12:21 PM - 1:41 PM	Block 4 class
1:45 PM - 2:25 PM	Period 9 directed study hall

During the shop week, a student will follow a schedule similar to that below:

7:20 AM - 7:35 AM	Breakfast available
7:40 AM - 9:00 AM	Related (grade 9-10); Shop time (grade 11-12)
9:04 AM - 10:24 AM	Shop time
10:28 AM - 12:17 PM	Shop time and lunch
12:21 PM - 1:41 PM	Shop time
1:45 PM - 2:25 PM	Shop time

Related courses are block-long classes. Every two weeks students will leave shop to attend Guidance/PE classes, while teachers use that time for Professional Learning Communities (PLCs). In Grade 9, students also take Digital Literacy instead of a Guidance class. Grade 9 students explore all 12 programs during the first half of their first year.

## **B. After School Activities and Events**

SST offers several after school activities and clubs outside our athletics program. Clubs include: Dungeons & Dragons, Chess Club, Drama Club, GSA, Art Club, Music Club. Other regular activities include an afterschool homework center for students needing extra support or some structure for getting tasks completed.

SST has meetings for the Parents Association, Athletic Association, School Council and School Committee in the high school typically once per month.

Also, SST has recently been running several Career Technical Institute classes for underemployed and unemployed adults in the late afternoons and evenings. The space impact is noteworthy in the shop areas involved (Carpentry, Culinary Arts, Metal Fabrication/Welding, Automotive, HVAC-R, Horticulture, Manufacturing). Future school designs should consider the organization of the shops and common area space which would have its primary design focused on serving the high school population but could double as functional space for various 'night school' programs.

SST offers late buses at 4PM daily to allow students to participate in afterschool activities and still have transportation home. 6PM late buses support students who participate in our athletics program and are after school for staggered practice times and/or contests.

### **C. Buildings & Grounds**

On the grounds, there is a baseball field, main playing field for football, soccer and lacrosse, a softball field adjacent to the main playing field, and a gravel track that surrounds the main playing field.

Outbuildings include a greenhouse for Horticulture Landscape Construction, a three bay maintenance building (that houses the Facilities Director and Transportation Coordinator), a barn (used by Horticulture Landscape Construction) and an adjacent locker room (used by Athletics Department), a concession stand and a ticket booth. There is also a district office building which houses the Superintendent-Director, Business Office, Informational Technology, and Human Resources.

### **D. Offices**

High school administrative and student services offices are near the main entrance, with the school nurse located more centrally in the building to be closer to the shop programs. Some administrative and specialist offices are placed elsewhere in the building due to space constraints and a desire to have some administrative presence distributed throughout the building.

Office space is designated for the Principal, Assistant Principal, School Resource Officer, Student Services department staff (Speech Pathologist, Psychologist, 2 Adjustment Counselors, 2 Guidance Counselors, Special Education Director, Director of Guidance and Admissions and administrative assistant) Athletic Director, Director of Career and Community Development, Director of Curriculum, Instruction, Assessment and Professional Development, and Athletic Trainer.

## **II. South Shore Regional Vocational Technical High School Information**

### **A. Background and Vision**

To start the process of envisioning a new school, SST's leadership team met with New Vista Design in May 2023 to prepare for upcoming visioning sessions. Then on June 20, July 11, and July 18, 2023, SST's larger visioning group, consisting of 7 students, 9 teachers, 1 paraprofessional, 6 administrators, 7 parents/caregivers, participated in three virtual workshops run by New Vista Design. There was also a community forum held on July 13 for the SST community at large to hear about the visioning process and ask questions.

Each workshop was a collaborative session, allowing community members to participate in a step-by-step visioning process intended to identify SST's current and future priorities and goals and how a new facility design can reflect, project, and enhance those priorities and goals.

*Please also refer to the entire Educational Visioning Workshop Report attached to this Educational Program.*

## 1. Priorities and Considerations

Below are the top educational, architectural, and community priorities for the renovated and/or new SST facility that were discussed by the Educational Visioning Group:

### Educational Priorities

<b>Student-Centered Learning</b>	<ul style="list-style-type: none"> <li>• Making lifelong learners</li> <li>• Creativity, critical thinking, and problem-solving are valued more than compliance and regurgitation of something someone else learned</li> </ul>
<b>Vocational Academic Integration</b>	<ul style="list-style-type: none"> <li>• Integration of academic and career tech programs</li> <li>• Project-based and student-centered learning that integrates academics and Ch74</li> </ul>
<b>Expanded Chapter 74 Options</b>	<ul style="list-style-type: none"> <li>• Stay current in the industry and adapt to the current climate.</li> <li>• The construction trade is ever changing and it's important to make sure students are equipped.</li> <li>• Additional shops with separate related classrooms.</li> </ul>
<b>Real World Connections</b>	<ul style="list-style-type: none"> <li>• Connect vocational education with employers</li> <li>• Providing real world experiences, including co-ops</li> </ul>
<b>Inclusive and Differentiated Learning</b>	<ul style="list-style-type: none"> <li>• Flexible to changing needs of all types of education</li> <li>• All students can achieve at a high level and get the supports they need</li> <li>• Being able to meet and support students "where they are".</li> <li>• Having sufficient instructional resources for all students</li> <li>• Space for students who may struggle and need extra support</li> </ul>

### Architectural Priorities

<b>Welcoming Spaces</b>	<ul style="list-style-type: none"> <li>• Warm and welcoming with modern colors</li> <li>• Large modern, innovative, open, and bright spaces</li> <li>• Colorful spaces, no more beige</li> <li>• Natural light and open spaces</li> <li>• More windows for natural light</li> </ul>
<b>Good Wayfinding</b>	<ul style="list-style-type: none"> <li>• Better flow of classrooms and shops ensuring you know you're at SST (more branding)</li> <li>• Welcoming flow for new students &amp; families</li> <li>• Compact efficient layout to help flow within a larger building</li> </ul>

<b>Flexible Spaces</b>	<ul style="list-style-type: none"> <li>• Flexible and multi-purpose spaces</li> <li>• Flexible spaces for growth in the field</li> <li>• Adequate space for all learning</li> </ul>
<b>Collaborative Spaces</b>	<ul style="list-style-type: none"> <li>• Places for teachers to convene in large and small spaces</li> <li>• Need for a large gathering multi-purpose space</li> <li>• A fantastic auditorium, used for staff and students</li> <li>• Breakout space</li> <li>• A dedicated space only for meetings</li> </ul>
<b>Community Space</b>	<ul style="list-style-type: none"> <li>• Community space</li> <li>• Community gathering space</li> </ul>

### Community Priorities

<b>Inclusive and Welcoming School Culture</b>	<ul style="list-style-type: none"> <li>• Ensure students feel like a supported/connected community within</li> <li>• Inclusive - all are welcome (seen, supported, and safe)</li> <li>• A school that informs and allows community to see what the students are capable of</li> </ul>
<b>Collaboration and Connectivity</b>	<ul style="list-style-type: none"> <li>• More communication between crossover shops to allow students to work between trades</li> <li>• Interaction with staff, students and public</li> <li>• Connected shops that may work together on projects</li> </ul>
<b>Community Access and Integration</b>	<ul style="list-style-type: none"> <li>• Welcoming access to public shops</li> <li>• Visible community facing programs with clear branding</li> <li>• More community ties between shops</li> <li>• Shared spaces! Building relationships with our sending districts.</li> <li>• Connected to all sending towns; include design elements that feel native to sending towns</li> <li>• Community space such as auditorium or meeting spaces that can be utilized for community and learning based events</li> <li>• An auditorium/ presentation space that can be rented</li> </ul>
<b>Night School Programing</b>	<ul style="list-style-type: none"> <li>• Expanded night school programs</li> <li>• Community classes at night</li> <li>• Separate storage for night school elements</li> </ul>
<b>Access to Outdoor Athletic Spaces</b>	<ul style="list-style-type: none"> <li>• Synthetic multi-use sport fields with lighting</li> <li>• Track for walking</li> </ul>

<b>Flexible Spaces</b>	<ul style="list-style-type: none"> <li>• Space near main entrances for admissions/prospective parents to meet and greet</li> </ul>
------------------------	--

## 2. Priority Educational Focus Areas

Workshop participants were asked to share what the highlighted teaching and learning practices look like at SST now, and then were asked to consider what they could be in an aspirational future. The following comments, which have been grouped thematically, list what the top practices could look like in an aspirational future:

<b>Growth Mindset</b>	<ul style="list-style-type: none"> <li>• The attitude “we can get better” is encouraged and modeled.</li> </ul>
<b>Equity &amp; Inclusion</b>	<ul style="list-style-type: none"> <li>• Remove obstacles to student success and sense of belonging</li> </ul>
<b>Student Centered Learning</b>	<ul style="list-style-type: none"> <li>• Space to explore ideas through experiences</li> <li>• Tangible outcomes in all content areas</li> </ul>
<b>Vocational Academic Integration</b>	<ul style="list-style-type: none"> <li>• Working together</li> <li>• See a return to collaboration and spaces support connectivity</li> <li>• Increased collaboration between academics and vocational shops</li> <li>• More support for shop-to-shop collaboration</li> </ul>
<b>Competency Based Learning</b>	<ul style="list-style-type: none"> <li>• Systems in place for students to develop and demonstrate mastery</li> </ul>

## SST Future Ready Learning Goals

The following set of “Future Ready CTE Learning Goals 1.0” for South Shore Tech students was developed by the Educational Visioning Group (EVG) during the Visioning Workshop One that took place on June 20, 2023. The EVG is a group of approximately 30 participants that includes SST leadership, administrators, teachers, parents, and students. Five teams of 4- 5 participants worked in small groups to create their own set of SST Future Ready CTE Learning Goals for a theoretical poster that would appear in each STS classroom. Each team’s list was then grouped by like goals, with each Learning Goal receiving 5 votes for appearing on an original list.

<p><b>Workplace Readiness Skills</b></p> <ul style="list-style-type: none"> <li>• Work Ethic</li> <li>• Modern Tools of the Trade</li> <li>• Essential Workplace Habits</li> <li>• Learning How to be a Good Employee</li> <li>• Customer Service Skills</li> </ul>	<p><b>Personal, Social, and Civic Responsibility</b></p> <ul style="list-style-type: none"> <li>• Empathy and Cultural Proficiency</li> <li>• Integrity and Responsibility</li> <li>• Vocational Partnerships</li> <li>• Volunteerism and Community Engagement</li> <li>• Extracurricular and Athletic Engagement</li> </ul>
---	--

<p><b>Effective Communication</b></p> <ul style="list-style-type: none"> <li>● Written and Oral Communication</li> <li>● Acting as a Team Member</li> <li>● Building Relationships</li> <li>● Digital Literacy</li> </ul>	<p><b>Growth Mindset</b></p> <ul style="list-style-type: none"> <li>● Adaptability</li> <li>● Explorative and Open Mindset</li> <li>● Risk-taking Within a Safe Environment</li> <li>● Faculty Behavior Modeling</li> </ul>
<p><b>Critical Thinking and Problem Solving</b></p> <ul style="list-style-type: none"> <li>● Flexible Mindset</li> <li>● Inventive Thinking</li> <li>● Real World Problem Solving</li> </ul>	<p><b>Lifelong Learning</b></p> <ul style="list-style-type: none"> <li>● High Productivity</li> <li>● Planning and Organization</li> <li>● Self-Advocacy</li> </ul>

This version of SST Future Ready CTE Learning Goals Poster 1.0 will likely continue to evolve and will serve to inform the EVG’s conversations about the teaching and learning practices and priorities that should be supported by the renovated and/or new SST school facility.

### 3. Desired 21st-century Design Patterns

The following set of priority “21st Century Design Patterns” for the design of the renovated and/or new South Shore Tech was developed by the Educational Visioning Group (EVG) during Workshop Two. Workshop participants were introduced to 36 “Design Patterns” that represent varied architectural design features of, and approaches to 21st century school facility design. Individual participants first rated each Design Pattern with a heart, thumbs up, or thumbs down, and were then given the opportunity to rate Design Patterns collectively in order of importance. The resulting list of Design Patterns has been placed in priority order based on the cumulative total of hearts, thumbs up, and priority ratings that each received.

#### Top 12 Design Patterns:

1. Professional Work Areas (30 votes)
2. Dining as Social Commons (28 votes)
3. Display and Exhibition (27 votes)
4. Branding and Identity (27 votes)
5. Indoor/Outdoor Connections (27 votes)
6. Heart of the School (26 votes)
7. School Run Businesses (26 votes)
8. Natural Light and Biophilia (26 votes)
9. Effective Storage (26 votes)
10. Security and Welcome (25 votes)
11. Community Use and Access (25 votes)
12. Media Center as Learning Commons (25 votes)

### 4. Guiding Principles

The EVG was introduced to four Case Studies of recent CTE school projects in which the Guiding Principles for each school were reviewed as connected to design decisions that were made for the project. Three teams of 4-5 participants each worked to create their own set of 4-6 Guiding Principles for the SST project, which were later grouped by like themes and are listed below in order of the number of “votes” they received, with each pattern given 5 votes for every time that it appeared on a team’s list.

The following principles offer guidance on setting design goals and focus the work of the visioning team. These principles may evolve as the design process continues.

Guiding Principle	Illustration
<b>Sense of Place</b>	<ul style="list-style-type: none"> <li>● Learning communities</li> <li>● Public area and academic area</li> <li>● Displays of student work</li> <li>● A school that looks like a place of learning</li> <li>● A facade that is reflective of the community</li> </ul>
<b>Safety and Welcome</b>	<ul style="list-style-type: none"> <li>● Welcoming wayfinding</li> <li>● A Courtyard that would provide for safe student gathering outside</li> </ul>
<b>Heart of the School</b>	<ul style="list-style-type: none"> <li>● Multi-purpose Commons</li> <li>● Open, with a variety of spaces</li> </ul>
<b>Natural Light</b>	<ul style="list-style-type: none"> <li>● Well lit classrooms and common areas</li> </ul>
<b>Visual and functional connections to the outdoors</b>	<ul style="list-style-type: none"> <li>● Access to the campus for curriculum initiatives, PE program, passive recreation (walking trails), as well as shop activities</li> <li>● Access to school vehicles for shops that go off campus</li> </ul>
<b>Adaptability and Flexibility</b>	<ul style="list-style-type: none"> <li>● The ability to evolve, grow, and adapt to changing 21st century skills</li> <li>● The ability to flex when future technology and vocational equipment are introduced</li> </ul>
<b>School as Community Resource</b>	<ul style="list-style-type: none"> <li>● Welcoming yet secure</li> <li>● Public spaces and public-facing CTE programs secured from other areas of the school</li> <li>● An active community and an active night school program</li> </ul>
<b>Building as a Learning Tool</b>	<ul style="list-style-type: none"> <li>● Students understand and participate in maintaining the building systems</li> <li>● Horticulture students participate in maintaining the grounds</li> <li>● Having an energy-efficient building</li> </ul>

## Enrollment

SST is in the MSBA's program to consider the Feasibility and Schematic Design of a possible Addition/ Renovation or New School. As part of that program, SST has agreed to study a range of enrollment possibilities from 805 students to 975 students and something in-between. This range recognizes the growth of the District with the addition of the Town of Marshfield and the potential to add new Chapter 74 CTE programs.



### 3.1.2.1 B. Grade and School Configuration Policies

#### 1. Current School

The District consists of one high school serving Grades 9-12. Enrollment as of October 1, 2022 was 653 students and as of this report in September 2023, there are 671 students. The high school is currently organized by five academic departments and twelve vocational technical programs.

SST receives over 300 applications for Grade 9 admissions and accepts up to 180 students each year. The school's wait list for the past five years has averaged 100 students. This evidence strongly suggests that SST could support higher enrollments. During the 2022-2023 school year, 302 students completed applications while only 165 were enrolled as incoming Grade 9 students. This acceptance rate of 54.6% is part of a trend: 68.1% of students who completed applications were accepted in 2021-2022, and 78.4% were accepted in 2020-2021. This downward trend shows that applications have gone up while the number of available spots has not been able to keep pace with student interest.

SST's curriculum is aligned with all applicable DESE/CTE frameworks, fulfills the Mass Core curriculum, and meets the Massachusetts Board of Higher Education Admissions Requirements. SST students graduate with four years of English, Mathematics, Physical Ed/Health and Science, as well as three years of Social Studies, including a grade 11 semester long Civics course. PE/Health instruction is extremely limited and needs to be addressed through design and staffing. SST does not yet offer World Language courses due to scheduling limitations; however the Massachusetts Board of Higher Education Admissions requirements allow Technical Related courses to be substituted in lieu of World Language courses.

SST is committed to educating all students and has successfully developed a special education program to address the needs of students with disabilities in an inclusion model where all students with individual education plans are successfully integrated into co-taught and paraprofessional supported classes.

The existing facility significantly limits the number of students who can enroll. As the district Statement of Interest indicates, as the second oldest regional vocational school in Massachusetts, many of the infrastructure systems have outlived their useful life. In addition, we lack adequate space for instructional and instructional support settings.

#### 2. Proposed School

The proposed school would be designed in a way that would provide access for more students to enroll in programs that are aligned with local and regional labor market needs. In addition, the proposed school must be a learning tool in itself; it must efficiently utilize every square inch because there is a limited site on which to renovate or build.

SST **learning goals** emphasize workplace readiness, growth mindset, problem solving, and responsibility. These goals are embedded in the school mission and goals. Students have flourished within our current building and grounds layout, yet their future experience will be improved exponentially with a new design. Efforts should be made to cluster shops within similar industries (when there is an authentic curriculum reason to do so) and to cluster shops that have a prominent public facing component to the program.

Design decisions must consider the visioning session **guiding principles and design patterns** that emphasize safety, sense of place, natural light, adaptability and flexibility, among others. Students and

teachers need the space to gather as a community in large and small spaces, to practice skills in and out of the shop and classroom, and to be supported socially and emotionally through the school year.

**Skills building** is at the heart of SST’s program of studies. Academic skills are best cultivated through project based learning, ability to collaborate within and among departments. Teachers need a design that gives them an array of learning environment options in and out of the classroom, whether that is in a creatively designed hallway, multipurpose room, or small group work areas. Workplace skills are developed and refined in spacious shop settings and with opportunities to interact with the public, either on or off campus. The proposed school must be designed with adequate spacing in mind for all aspects of the educational program:

Space Needs	Impact for Design
<p><b>Chapter 74 spaces</b></p>	<ul style="list-style-type: none"> <li>● More floor space for heavy equipment.</li> <li>● Shop adjacencies that allow teachers the ability to transition from individualized shop work on the floor to small/large class meetings in a classroom.</li> <li>● Expanded and accessible storage that does not require interruptions to the flow of the school day by having to send students to distant locations to retrieve supplies.</li> <li>● Shop proximity to school vehicle (e.g. 14 person van) parking when shops need to bring students to job.</li> <li>● Open space to display student work products.</li> <li>● Demonstration space and student skill practice space.</li> <li>● Student rest rooms within the shop footprint.</li> </ul>
<p><b>Academic spaces</b></p>	<ul style="list-style-type: none"> <li>● In an effort to offer more access to SEL supports, PE programming, Digital Literacy, World Language and expanded Related Theory instruction on the academic week, a future scheduling model could include 5 blocks of instruction which will require more classroom space.</li> <li>● MSBA-standard science labs with storage nearby, and also space to pivot between lab and desk work within the same footprint.</li> <li>● Classrooms with universal technology access, maximized natural lighting and flexible furniture to allow for the school to more easily adjust for curriculum and staffing needs in the future.</li> <li>● Student restrooms in sufficient number to minimize time that students are not in the classroom setting.</li> <li>● Breakout room or gathering/common spaces in sufficient number to make the best use of the existing internal space and encourage collaboration between:               <ul style="list-style-type: none"> <li>○ Teachers who work on the same subject/grade level.</li> <li>○ Teachers who collaborate across academic disciplines (e.g English and Social Studies).</li> <li>○ Academic and Chapter 74 integration in the curriculum via locally designed project based learning.</li> </ul> </li> </ul>

<p><b>Common/Flexible spaces</b></p>	<ul style="list-style-type: none"> <li>• Being able to assemble groups of students for instructional and extracurricular activities and not over rely on remote technology (e.g. Zoom) to create a school community.</li> <li>• Having the option to leave materials for events and projects that might take multiple days.</li> <li>• Having space that is available throughout the school day.</li> <li>• Having flexible furniture to convert the functionality of the space to meet the educational program, community needs, or extracurricular activities.</li> </ul>
<p><b>Administrative and Student Support spaces</b></p>	<ul style="list-style-type: none"> <li>• Having space strategically located within clusters of classrooms or shops for staff and student gatherings.</li> <li>• Having sufficient space options to have ‘just in time’ meetings with students, parents and staff.</li> </ul>

### 3.1.2.2 C. Class Size Policies

Every effort is made to keep academic class sizes for regular education classes under 25. The District has consistently maintained an average class size of approximately 20 students for the previous five years. This includes high needs students such as those who come from low income families, those with disabilities, and—to a smaller extent—English learners.

SST complies with Massachusetts regulations with regard to instructional groupings for students on individualized education plans. When eligible students are assigned to instructional groupings outside of the general education classroom for 60% or less of the students’ school schedules, group size shall not exceed

- 8 students with a certified special educator,
- 12 students if the certified special educator is assisted by one aide, and
- 16 students if the certified special educator is assisted by two aides.

For the 2022-2023 school year, students with disabilities comprised 27.3% of the student population, compared to 19.4% for the state. Low-income students comprised 29.2% of SST’s population, compared to 42.3% for the state. Maintaining class sizes for these students in particular is an important goal for any building expansion.

Chapter 74 “shop” classes have varying teacher student ratios, but they do not exceed 20:1 when students are in a shop setting. These ratios are mindful of state board regulations (e.g. Department of Public Health, Board of Cosmetology), existing instructional space, student demand, and current staffing.

***Impact for Design: Class Size Policies***

Regardless of design, state regulatory boards (e.g. Cosmetology, Board of Health), and special education regulations all contribute to the district determining class size parameters.

SST is currently enrolling 671 students as of September 2023. Should the enrollment expand to a range of up to 975, there will be additional staffing needs phased in over a 4 year period.

English:	1 for every 120 new students
Math:	1 for every 120 new students
Science:	1 for every 120 new students
Social Studies:	1 for every 120 new students
Special Education:	1 for every 90 new students
World Language:	1
PE/Health:	1 for every 120 new students
Counseling:	1 for every 120 students
IT Support:	2 support staff
Food Service:	4 staff for increase serving lines
Ch 74 Teachers:	10 (5 for enrollment increase, 5 for new programming)
Ch 74 Paras:	3 school day staff
Paraprofessionals:	1 for every 60 students
Administration:	2
Admin Assistants:	2
Custodians:	4
Bus Drivers:	1 for every 60 new students

**3.1.2.3 D. School Scheduling Method**

The school day begins at 7:40 AM and ends at 2:25 PM. Students are all on an alternating week schedule, with 9th and 11th graders on the same rotation, and 10th and 12th graders on the same rotation. The groups alternate cycles throughout the school year culminating in 90 days of academic instruction and 90 days of Chapter 74 full day shop instruction.

The school day is structured around a 9 period day; SST commonly refers to 84 minute 'double periods' as single 'blocks'.

Blocks	Event	Time	Minutes
	Warning Bell	<b>7:35</b>	
1	Period 1	<b>7:40-8:20</b>	80
	Period 2	<b>8:20-9:00</b>	
2	Period 3	<b>9:04-9:44</b>	80
	Period 4	<b>9:44-10:24</b>	
3	Period 5	<b>10:28-11:08</b>	80
	Lunch A	<b>10:28-10:53</b>	
	Lunch B	<b>10:57-11:22</b>	
	Lunch C	<b>11:25-11:50</b>	
	Lunch D	<b>11:52-12:17</b>	
	Period 6	<b>11:37-12:17</b>	
4	Period 7	<b>12:21-1:01</b>	80
	Lunch E	<b>12:21-12:46</b>	

80

	Period 8	1:01-1:41	
	Period 9	1:45-2:25	40
	Dismissal	2:25	

On a typical shop week, students spend the entire day in a shop setting except for a lunch period in the cafeteria. There are some exceptions:

- a. One day per week the students leave shop to attend a guidance class and gym class lasting 84 minutes in total. While the students are out of the shop, the teachers have a professional learning community block of time in common.
- b. Students in grade 9, after Exploratory, and students in grade 10, for the most part will start their shop day with 84 minutes of a Related course and then return to the shop setting for the duration of the school day.

Core academic courses are scheduled in 'blocks' or 84 minute 'double periods'. The academic day ends with a 9th period directed study period for students to complete work, get scheduled services, meet in extracurricular settings, and/or receive small group support from content area teachers or paraprofessionals.

Teachers are all scheduled for weekly 40-80 minute Professional Learning Community (PLC) time with colleagues, which is an essential part of the professional development model because it reinforces consistent professional practice and dialogue over an entire school year. One current instructional priority that requires PLC time has to do with grading. SST is in the second year of a two year initiative to overhaul its assessment system so that the grading system is more equitable and reflects student progress toward standards which is a philosophy that is more in line with project based applied learning.

There are honors level courses offered in the following subjects and grade levels:

	Math	Science	English	Social Studies	Computer Science
<b>Grade 9</b>	Algebra I and Algebra II	n/a	English 9	US I	n/a
<b>Grade 10</b>	Geometry	n/a	English 10	Modern World	n/a
<b>Grade 11</b>	Algebra II and PreCal	n/a	English 11: American Literature	n/a	n/a
<b>Grade 12</b>	PreCalc and Calculus	Biotech (Dual Enrollment)	English 12: World Literature (Dual Enrollment)	n/a	Computer Science (AP)

***Impact for Design: School Scheduling Method***

- Space for PLC meetings is essential.
- A cafeteria setting needs to set aside space for students who seek a quieter lunch experience.

- **Staffing:** Potential expansion of instructional blocks within the existing school day (4 blocks vs 5 blocks) needs further analysis for impact on school design. Having 5 instructional blocks would allow for more PE/Health, Digital Literacy, SEL supports, World Language and Related Theory.

### 3.1.2.4 E. Teaching Methodology and Structure

#### 1. Programs

SST offers 12 CTE programs that are designed for students to develop the skills and knowledge they need to succeed in their respective trades. Through our Chapter 74 Program Advisory Committees, we ensure that our students are learning what they need to know and are being held to industry standards. To enable all students to achieve their post-secondary goals, SST offers college preparatory and Honors level courses aligned with all applicable Massachusetts Curriculum Frameworks. This program of studies allows students to access and develop deeper learning skills like critical thinking and problem solving in a developmentally appropriate manner so they can be successful outside of school.

#### 2. Administration and Department Leadership

SST's administration includes the Superintendent/Director, Principal, Assistant Principal/Director of Vocational Education, Director of Curriculum, Instruction, Assessment and Professional Development, Director of Special Education, Director of Off Campus Learning & Special Projects, Director of Technology, Director of Facilities, Food Service Director and Transportation Coordinator. The district also has a Human Resources Coordinator and a business office which includes Accounts Payable and Payroll staff and the District Treasurer.

Each instructional program department has a chair, who meets with administration monthly. An expanded or new building and/or increased enrollment may require a small increase and rearrangement of this organizational structure.

#### 3. Curriculum & Instruction

All courses have curriculum maps that guide the pacing of instruction. More importantly, the maps emphasize the most essential standards that will be taught and assessed in the course. Multiple sections of the same course use the same curriculum map to ensure equity and continuity of instruction. Maps are guided further by course essential questions and units of study which include lesson plans that connect the day to day activities in alignment with the standards and outcomes. In academic classes, teachers often design activities that make real world connections, foster teamwork and collaboration, and get students out of their "desk and row" traditional learning environment. Chapter 74 shop courses and related courses embrace and model this philosophy every day.

Deeper integration projects within a department, and between academic and shop departments are hampered by a lack of common area space. Unless students were to gather outdoors, there is very limited space to have groups of students collaborate on projects and view demonstrations and presentations. Making strategic design decisions with common gathering spaces as a priority will create an ideal environment for these initiatives to take root in the future.

Faculty members employ various instructional approaches including project-based learning, collaborative and small group work, and laboratory activities. Direct instruction, guided reading, skills based practice is

also part of the learning experience for students. With a standards-based assessment system, teachers want students to take charge of their learning through multiple opportunities to show what they know and are able to do. SST's co-teaching model has supported students in all academic areas. Special education teachers also serve as student liaisons in order to ensure that IEPs are being implemented and parents are an active part of the student learning process.

#### ***Impact for Design: Curriculum & Instruction***

- To meet the current and future needs of diverse learners, instructional spaces must have universal technology, mobile furniture and proper adjacencies and supervision.
- Another design priority is designing flexible spaces that can shift to meet ever changing needs of teaching and learning in the short term and long term.
- Potential non-instructional spaces must be distributed throughout the building to allow for better student supervision and reasonable access to meeting room space for adult and student needs (e.g. dept meeting space, break out rooms for small group learning).
- To allow for the sharing of general classrooms and to maintain the high utilization of all educational spaces, teachers must have professional planning spaces. We envision these spaces to be appropriately furnished and equipped for both quiet work spaces and comfortable lounge-type spaces. There should be multiple locations throughout the school to be convenient to all academic classrooms,

#### **4. Promotion/Graduation Requirements**

In order to ensure promotion, it is the expectation that credits for all classes that earn a mark of *Unsatisfactory* or *No Credit* will be recovered prior to the start of the next school year. A student who earns *Unsatisfactory* or *No Credit* in three (3) or more academic courses in a given year will not be promoted academically. A student who earns *Unsatisfactory* or *No Credit* in shop for the year will meet with the principal or her/his/their designee to plan for credit recovery. Students may be required to repeat the vocational year. All students must earn their OSHA 10 card prior to co-op placement and/or graduation. Exceptions to these requirements may be made for students entering South Shore after their 9th grade.

#### **5. English Language Arts/Literacy**

Guided by the Massachusetts Common Core Curriculum, students will be instructed in Reading & Literature, Language, Writing, and Speaking & Listening. The emphasis in English 9 and 10 is developing essential skills for success in high school and on state assessments, focusing on prose, short stories, and novels. The curriculum has been designed to prepare students to be college and career-ready. English 9 is the first of a two-year loop, culminating at the end of English 10. There will be department-selected formative and/or summative assessments in English 9 and 10.

In Grades 11 and 12, students will be instructed in Reading & Literature, Language, Writing, and Speaking & Listening. English 11 has a focus on American Literature, and English 12 has a focus on World Literature. A central focus in all English 11 and 12 courses are assignments that prepare all students for college and careers. English 11 is the first of a two-year loop, culminating at the end of English 12. Students will develop a required career-ready digital portfolio in English 11, which will carry over to English 12.



The District offers two levels of instruction in all grade levels. The Honors course in Grade 9 has a prerequisite that is a combination of Grade 8 grades and SST placement test scores. In Grades 10, 11, and 12 students must earn *Advanced* in English Honors or *Exemplary* in English CP.

Title 1 supports in the areas of reading are provided through direct instruction in academic classes and targeted reading interventions in small groups or in individual settings. Identified Title 1 students receive additional support in Grades 9 receive reading interventions and in grades 9 & 10 to prepare for MCAS. Upperclassmen in grades 11 and 12 receive interventions to prepare for PSAT/SAT assessments.

Our English Language Learner program continues to grow. Identified ELL students receive support from our ESL instructor. The ESL teacher works directly with students in their academic and vocational programs, and provides direct services based on need in small groups or individually. The ESL teacher collaborates with teachers during PLCs to offer professional development in supporting EL's with SEI and WIDE Can Do best practices.

*ELA Staffing, Scheduling and Space Limitations*

The English Department has 6 full time teachers. All are certified to teach English. Two have a Masters in English to support dual enrollment instructor requirements. One is dual certified in English and Special Education.

Most of the teachers in the English Department travel for up to half of their scheduled course load. SST attempts to limit the number of periods a teacher will travel, but due to space constraints there are times when an instructor may be in a different classroom for each class on a given instructional cycle. SST's classrooms vary in size. Most classrooms can accommodate 24 student work stations; some cannot. Those that can accommodate 24 students meet safety requirements, but leave little room for teacher mobility. Teachers meet weekly in a Professional Learning Community. There are no classrooms available for these meetings. Teachers meet in conference rooms which are not always large enough to effectively accommodate the department's needs.

SST provides individualized instruction and assessment to students who need it. When appropriate, classes include a special education teacher and/or a trained instructional aide. Students who need support in a small group setting are provided with the opportunity to work with a teacher or paraprofessional outside the regular classroom in other available spaces. Students who need extra support are also provided with special educators or instructional aides who staff small group study halls during our academic week 9th period. Students are also supported after school by their teacher or in a designated extra help location staffed by trained instructional aides.

The following table provides offerings for English Language Arts courses in Grades 9 -12 at SST:

<b>Grade</b>	<b>Dual Enrollment</b>	<b>Honors</b>	<b>College Prep</b>
<b>9</b>	n/a	English 9 Honors	English 9 CP
<b>10</b>	n/a	English 10 Honors	English 10 CP
<b>11</b>	n/a	English 11 Honors	English 11 CP
<b>12</b>	World Literature	English 12 Honors	English 12 CP

***Impact for Design: English Language Arts/Literacy***

- No specific design changes envisioned for the English Language Arts/ Literacy curriculum.
- **Staffing:** 1 teacher for every 120 new students.

## **6. Mathematics**

Math is a critical ingredient in nearly every program at SST. A wide range of math subjects are available to stimulate and challenge all of our students. Such courses are designed to support students' career objectives, as well as college ambitions. All courses are guided by the Massachusetts Common Core Curriculum. Courses offered include Geometry, Algebra I, Algebra II, Pre-calculus, Calculus, Financial Literacy and Statistics. SST offers college placement and honors level courses in all grade levels, as well as dual enrollment Pre-calculus.

Title 1 supports in the areas of math are provided through direct instruction in academic classes and through targeted reading math interventions in small groups or in individual settings. Identified students receive additional support in Grades 9 and 10 to prepare for MCAS and Grades 11 and 12 to prepare for PSAT/SAT assessments.

Our English Language Learner program continues to grow. Identified ELL students receive support from our ESL instructor. The ESL teacher works directly with students in their academic and vocational programs, and provides direct services based on need in small groups or individually. The ESL teacher collaborates with teachers during PLCs to offer professional development in supporting EL's with SEI and WIDE Can Do best practices.

### *Mathematics Staffing, Scheduling and Space Limitations*

The Math Department has 6 full time teachers certified to teach Mathematics. One teacher has a Masters in Mathematics which supports dual enrollment instructor requirements. In addition, SST has 2 full time teachers dual-certified in Math and special education.

Most of the teachers in the Math Department travel for up to half of their scheduled course load. SST attempts to limit the number of periods a teacher will travel, but due to space constraints there are times when an instructor may be in a different classroom for each class on a given instructional cycle. SST's classrooms vary in size. Most classrooms can accommodate 24 student work stations; some can not. Those that can accommodate 24 students meet safety requirements, but leave little room for teacher mobility. Teachers meet weekly in a Professional Learning Community. There are no classrooms available for these meetings. Teachers meet in conference rooms which are not always large enough to effectively accommodate the department's needs.

SST provides individualized instruction and assessment to students who need it. When appropriate classes include a special education teacher and/or a trained instructional aide. Students who need support in a small group setting are provided with the opportunity to work with a teacher or paraprofessional outside the regular classroom in other available spaces. Students who need extra support are also provided with special educators or instructional aides who staff small group study halls during our academic week 9th period. Students are also supported after school by their teacher or in a designated extra help location staffed by trained instructional aides.

The following table provides offerings for Math courses in Grades 9 -12 at SST:

Grade	Dual Enrollment	Honors A**	Honors B	CP
9	n/a	Algebra 2	Algebra 1	Algebra 1
10	n/a	Geometry		Geometry
11	Pre-calculus	Pre-calculus	Algebra 2	Algebra 2
12	Pre-calculus	Calculus	Pre-calculus, Calculus	Pre-calculus, Financial Literacy, Statistics

\*\* For incoming 9th grade students who have successfully completed Algebra 1 by the end of 8th grade at an Honors Level

**Impact for Design: Mathematics**

- No specific design changes envisioned for the Math curriculum.
- **Staffing:** 1 teacher for every 120 new students.

**7. Science**

SST currently uses 4 lab classrooms (sizes range between 774-992 sq ft) and one chemical storage area (187.5 sq ft) to teach 450 students in 4 instructional blocks per day.

All Science classes are aligned with the Massachusetts Curriculum Frameworks which incorporate the Common Core Literacy standards as well. All Grade 9 and 10 students enroll in one science course per year (Biology or Physics) and take Science MCAS in grade 9. Grade 11 students can choose Environmental Science, Chemistry or Engineering. Students in the Allied Health program also take Anatomy and Physiology. Grade 12 students can choose from Environmental Science, Chemistry, Engineering, or Tech Engineering. Often the science course a student chooses depends upon their technical area and their college plans.

Title 1 supports in the areas of reading and math are provided through direct instruction in academic classes and through targeted reading math interventions in small group or 1:1 settings. Identified students receive additional support in Grades 9 and 10 to prepare for MCAS and Grades 11 and 12 to prepare for PSAT/SAT assessments.

Our English Language Learner program continues to grow. Identified ELL students receive support from our ESL instructor. The ESL teacher works directly with students in their academic and vocational programs, and provides direct services based on need in small groups or individually. The ESL teacher collaborates with teachers during PLCs to offer professional development in supporting EL's with SEI and WIDE Can Do best practices.

*Science Staffing, Scheduling and Space Limitations*

The Science Department consists of 6 teachers who are licensed in Biology, Physics, Tech Engineering or Chemistry. The Science Department has 6 full-time teachers, many with multiple areas of licensure.

- 4 are certified to teach Biology.
- 2 are certified to teach Physics.
- 2 are certified to teach Chemistry.
- 1 is certified to teach Tech Engineering.
- 1 has a Masters degree in Biology to support dual enrollment instructor requirements.
- 1 is dual-certified in Biology and Special Education.

Some members of the Science Department travel for up to half of their scheduled course load, even for lab bases courses. SST attempts to limit the number of periods a teacher will travel, but due to space constraints there are times when an instructor may be in a different classroom for each class on a given instructional cycle. SST has four Science labs outfitted with sinks, water, lab tables, necessary safety features and storage. Most classrooms can accommodate 24 student work stations; some can not. Those that can accommodate 24 students meet safety requirements, but leave little room for teacher mobility. Teachers meet weekly in the Professional Learning Community. There are no classrooms available for these meetings. Teachers meet in conference rooms which are not always large enough to effectively accommodate the department's needs.

The following table provides a grade-level listing of Science courses. All students enroll in Biology and Physics in Grades 9 and 10. All students enroll in 2 more science classes in Grades 11-12. Some of these courses are aligned with Chapter 74 majors (e.g. Allied Health students enroll in Anatomy & Physiology; Manufacturing Engineering students enroll in Engineering; Cosmetology students enroll in Chemistry)

Grade	Dual Enrollment	College Prep
9	n/a	Biology, Physics
10	n/a	Biology, Physics
11	n/a	Engineering, Environmental Science, Anatomy and Physiology, Chemistry
12	Biotechnology	Engineering, Tech Engineering, Environmental Science, Anatomy and Physiology, Chemistry

**Impact for Design: Science**

For the current enrollment, the District needs six Science classrooms at a minimum. Each of the proposed science classrooms should have the following equipment:

- Instructor's station
- Movable demo table
- 2 Wheelchair accessible tables
- 1 Wheelchair accessible counter
- 10 Movable tables

- An adjoining prep room with refrigerator and dishwasher
- 7 sinks including hot & cold water, gas
- A primary teaching wall and a secondary teaching wall
- Full blackout window treatment in labs

Each of the proposed science classrooms should have the following safety measures:

- Fire Extinguisher Master Gas Shut Off
- Safety Goggle Sterilizer Unit
- Fume Hood/ Biosafety Cabinet
- Safety Shower & Eyewash w/ Fd
- Fire Blankets
- Chemical storage

The Science classrooms should be designed to accommodate all Science offerings and they should be capable of providing both lecture and lab, in accordance with current MSBA standards.

Design consideration should be given to having at least one Science lab in proximity to the MET shop for engineering integration and 1 science lab near the Allied Health shop for similar curriculum integration in life sciences.

**Staffing:** 1 teacher for every 120 new students

## 8. Social Studies

The goal of the Social Studies Department at SST is to engage students in understanding the history of the world in which we live. In addition, our department teaches history through skill-based learning that emphasizes reading, writing, and critical thinking. The department also incorporates 21st-century skills including global awareness and economic, civic, and environmental literacy.

Our approach is to teach for greater historical understanding, using a variety of methods to elicit each student's interpretation and insight in looking at past events. SST believes this will help to make graduates more well-rounded, productive, and better grounded in the world we live in today. To create active and more engaged citizens, the department focuses on U.S. History, Modern World History, and Civics. All Social Studies Department classes are aligned to the current MA DESE Frameworks and Standards. All course offerings are required at South Shore Technical High School.

Title 1 supports in the areas of reading and math are provided through direct instruction in academic classes and through targeted reading math interventions in small group or 1:1 settings. Identified students receive additional support in Grades 9 and 10 to prepare for MCAS and Grades 11 and 12 to prepare for PSAT/SAT assessments.

The English Language Learner program continues to grow each year. Identified ELL students receive support from our ESL instructor. The ESL teacher works directly with students in their academic and vocational programs, and provides direct instruction and intervention in small groups and/ or 1:1. She collaborates with teachers during PLC's to offer professional development in the areas of need.

### *Social Studies Staffing, Scheduling and Space Limitations*

The Social Studies Department has 3 full time teachers and one special education teacher who works close to full-time in the Social Studies Department.

- 3 are certified to teach high school Social Studies.
- 1 is dual-certified in English and Special Education.

Most of the teachers in the Social Studies Department travel for up to half of their scheduled course load. SST attempts to limit the number of periods a teacher will travel, but due to space constraints there are times when an instructor may be in a different classroom for each class on a given instructional cycle. SST classrooms vary in size. Most classrooms can accommodate 24 student work stations; some can not. Those that can accommodate 24 students meet safety requirements, but leave little room for teacher mobility. Teachers meet weekly in a Professional Learning Community. There are no classrooms available for these meetings. Teachers meet in conference rooms which are not always large enough to effectively accommodate the department's needs.

The following table provides a typical pathway for Social Studies courses in Grades 9 -12 at SST:

<b>Grade</b>	<b>Honors</b>	<b>CP</b>
<b>9</b>	US History	US History
<b>10</b>	Modern World History	Modern World History
<b>11 or 12</b>	n/a	Civics (one semester)

#### ***Impact for Design: Social Studies***

No specific design changes are envisioned for the Social Studies curriculum.

**Staffing:** 1 teacher for every 120 new students

### **9. World Language**

There are currently no courses offered. The Massachusetts Board of Higher Education allows vocational technical schools to substitute Related Theory courses for the World Language requirement for college admissions.

#### ***Impact for Design: World Language***

- It is likely that some world language instruction would be offered in the future, requiring at least one additional classroom for one licensed teacher to offer instruction for 60-75 students per cycle.
- **Staffing:** 1 teacher

### **10. Physical Education/Health and Wellness**

There is only 1 Physical Education/Health and Wellness teacher at SST currently. The program space is limited to a 8,000 sq ft gymnasium and approx 600 sq ft weight room. Thy gym area is used 75% of school

day and regularly after school for contests and practices. When one factors in the use of the gym for class assemblies, guest speakers, or any reason to congregate, the usage rate is higher.

SST lacks the instructional and storage space for a comprehensive PE/Health & Wellness program. All health classes are run in the gymnasium which presents scheduling challenges. Our current exercise and fitness room at SST is inadequate due to the small size and lack of equipment. At 600 square feet, approximately six to eight students can safely exercise, but the equipment is very limited because several pieces were removed to make room for the athletic trainer to administer to athletes. As it stands right now, the room cannot accommodate a wellness class, rendering it underutilized during the day. Students are limited to engaging in strength training exercises using body weight, resistance bands and small hand-held dumbbells in the gymnasium.

***Impact for Design: Physical Education/Health and Wellness***

- With a larger PE/Wellness area and adequate staffing we can increase PE/Health & Wellness instruction on both the academic and shop cycles.
- Additional programming should include:
  - Space needed to accommodate 25 students for concurrent use of weight training and cardio equipment. Students currently participate in cardio exercise by walking, running or jumping rope in the gym. With an expanded weight room/training facility, they could use a variety of modalities that can be adjusted to meet individual fitness needs.
  - Space for a workout area would be designated for fitness exercises or group instruction involving stability balls, medicine balls, kettlebells, free weights, abdominal work, yoga and stretching. This area needs a large storage area where all of this equipment could be secured.
  - A dedicated classroom near the gymnasium for health/wellness instruction
- Space for an instructor office that is not located within the student locker room
- In a new/renovated building, there would be adequate, centralized space for storage, trainer, coach and game officials rooms, and increased capacity for weight training for classes and teams.
- **Staffing:** 1 teacher for every 120 new students; 1 paraprofessional is needed to support weight room and locker room supervision.

## **11. Athletics**

The Athletics program supports nearly one third of the student body over the course of the school year. Our athletics programs are growing in popularity despite inadequate locker room space for storage, lockers and changing areas, inadequate gym space, and a small weight room that cannot be used effectively as part of a physical education program (or as a part of an athletics training program). We have built a 3rd locker room outside the building to address these needs. We have moved our athletic trainer into a closet area adjacent to the gym to assist some fall and winter athletes.

***Impact for Design: Athletics***

- Space for a workout area would be designated for fitness exercises or group instruction involving stability balls, medicine balls, kettlebells, free weights, abdominal work, yoga and stretching. This area needs a large storage area where all of this equipment could be secured.

- A dedicated classroom (perhaps shared with the Health Classroom) near the gymnasium for a team gathering place which are often a challenge after school near the gym and locker area
- In a new/renovated building there would be adequate, centralized space for storage, trainer, coach and game officials rooms, and increased capacity for weight training for classes and teams.
- **Staffing:** An administrative assistant to support the athletics program and other operational departments (such as food service, transportation and maintenance) will also be needed as the number of student athletes will surely increase.

## 12. Student Guidance, Admissions and Support Services

“Student Services” is a combination of Special Education and Counseling Staff consisting of:

- Director of Special Education
- Team Chairperson
- Director of Guidance and Admissions
- 2 Guidance Counselors
- 2 Adjustment Counselors
- Speech Language Pathologist (not housed in the SS area at this time)

(For more in-depth information on Special Education, see Section O.)

Currently the space in student services is set up to be an open and supportive environment for the district. Within the suite, there are six offices and two conference rooms. The conference rooms are used for special education team meetings, parent meetings, student meetings, administrative meetings, and professional learning communities for teachers. The two conference rooms are managed by the administrative assistant in the student services suite. The suite does not always offer a private place for students who need privacy if the conference rooms are being used. When a student needs privacy, a staff member within the suite will give up their own space so the student has the privacy they need. This can be very challenging when days are busier than others. In addition, the walls are thin in the offices and soundproofing is poor. .

Counselors need offices where they can meet privately with students. Students need to feel comfortable expressing themselves in a safe space that is soundproofed. Counselors need an office setting that is accessible to students and staff yet private.

Students who are transitioning back to school from extended absences need a space to receive both counseling and academic support. This space would be the district's BRIDGE program. The space should include a private area for counseling, a space for meetings, and a space for small group learning.

College and career representatives meet with students regarding their area of expertise. Students utilize the space for social, emotional, academic, and personal needs. Students meet with counselors for college and career planning. Within each grade, by technical area, the counselors assist students in developing skills such as time management, goal setting, social emotional health, and college and career readiness.

The guidance curriculum was created in collaboration with the school's health and wellness instructor and school nurse. There are social emotional lesson plans incorporated into classroom activities. The



guidance classes tend to be held in the lecture hall or cafeteria which can pose a problem for learning as these spaces are used frequently so guidance classes tend to have to shift. Also, these spaces do not provide an intimate space that counselors need to deliver instruction. Counselors deliver a comprehensive guidance curriculum in a variety of ways. Curriculum is delivered one-to-one, in small groups and in large groups. College and career representatives meet with students regarding their area of expertise.

***Impact for Design: Student Guidance, Admissions and Support Services***

- The Student Services area should include several conference rooms so that the school can hold special education team meetings and guidance meetings at the same time.
- It should include a student transition room that is calming and inviting as well as private areas for small groups of students to gather to work independently.
- Emphasis on confidentiality and a welcoming environment at the same time.
- Secure student records area.
- Offices should be spacious and designed to hold two to three people to converse with ample personal space.
- Conference room space and/or Career Center for employer, military and college representative visits, guest speakers, 504 meetings, counseling group sessions, quiet study space for students who need it within their service delivery plan, etc.
- A dedicated instructional space for the guidance/career portion of the curriculum so that counselors are not constantly roaming; this dedicated space fosters legitimacy for the curriculum and allows counselors to have a reliable, welcoming environment as any other teacher would want. This instructional space should include whiteboards, smart board (or similar technology) and flexible movable furniture that can be organized in several different configurations.
- The administrative assistant to this space should be the center of the suite. They should be the greeter and monitor of all guests (students, parents, outside visitors, staff, etc..) traffic patterns and direct the flow of students and staff to assigned offices and conference spaces. They should be placed in a position where they are able to greet and triage in a private and positive manner.
- The school psychologist and the school's speech and language pathologist need space that allows for testing to occur in 1:1 settings. The testing space needs to be private, quiet, and should not allow for interruptions. The space should include an area for direct instruction and small groups, and the school psychologist and speech and language pathologist need a private office setting for phone calls, Medicaid billing, IEP writing, virtual team meetings, and interpreting data into testing reports.
- Design options could include a separate Guidance and Admissions area separate from Special Education, but it would require an additional administrative assistant if there are separate waiting areas.
- **Staffing:** 1 counselor for every 120 new students; 1 administrative assistant

**3.1.2.5 F. Teacher Planning and Room Assignment Policies**

Teacher planning space is nearly non-existent. Most academic classrooms have 2 teachers with 2 teacher desks. Oftentimes the teachers undertake their planning in the classroom while the other teacher is actively teaching. There is a faculty lunchroom which doubles as a work room. Classrooms in the 1962 building are typically connected through adjacent doors at the rear of the classroom.

Academic teachers are teaching 6 periods, supervising students one 1 period, and have 2 planning periods per day. Vocational teachers are teaching 8 periods and have 1 planning period per day. There are monthly department meetings, and monthly faculty meetings where some collaborative planning can take place. However, it is through weekly PLC meetings (at the department level during the day) that most effective planning and collaboration takes place. There is no time or common space for multiple departments to collaborate concurrently unless it is done after school.

***Impact for Design: Teacher Planning and Room Assignment Policies***

- Teachers need to have space to plan and prepare for upcoming class activities outside of their current classrooms.
- Teacher work rooms should be separate from lunch room areas.
- Multiple teacher work areas will allow for collaboration during the school day.
- These common rooms will also be important in the event that the design requires that classrooms are used for instruction up to 100% of the day.
- Secure locker areas and a “home base” for paraprofessionals are necessary as they do not have classroom closets or desks to lock up personal items. Locating these in a staff lunch or planning area would be an improvement.

**3.1.2.6 G. Pre-Kindergarten Program**

N/A

**3.1.2.7 H. Kindergarten Program**

N/A

**3.1.2.8 I. Breakfast/Lunch Programs**

The breakfast program runs out of the cafeteria each morning from 7:20-7:35. School buses arrive with enough time for students to participate in the breakfast program. There are five lunches throughout the school day. The schedule for lunches includes shops and academic classes noted by teacher last name below:

<b>LUNCHES 23-24</b>		
<b>A CYCLE</b>	<b>TIME</b>	<b>B CYCLE</b>
<b>151</b>	10:28-10:53	<b>163</b>
<b>148</b>	10:57-11:22	<b>130</b>
<b>140</b>	11:25-11:50	<b>143</b>
<b>141</b>	11:52-12:17	<b>153</b>
<b>97</b>	12:21-12:46	<b>140</b>

Students have the option to use a recently opened adjacent space for a quieter lunch, which can house up to 20 students. Outside lunch is a COVID-influenced option that remains available.

SST participates in the National School Lunch program and is in compliance with state and federal guidelines. SST also offers a daily breakfast program. At present SST serves over 200 students for breakfast via one serving line; the program runs prior to the start of the school day.. The amount of students that partake in breakfast has increased due to the present day of free meals. The district sees the need to expand its serving lines to allow for quicker processing.

Storage continues to be an issue. SST has exhausted all possible reasonable storage ideas. With continued increase in participation and future enrollment growth we will definitely need more space. As a single district we lack the option of housing one week's worth of inventory. Other districts with multiple locations (schools) have opportunities to borrow space for food, paper and equipment. We would definitely need more than ample space moving forward, but the storage must be accessible and in proximity to the cafeteria serving area.

Our cafeteria has evolved into a multipurpose space out of necessity. While the main focus of the space is to serve our student body over five 25-minute lunch services each day, the space is also used for after school activities such as wrestling practice, and during the day break out space for students and teachers/paras. It is the only space in the school to convene our entire faculty or our Chapter 74 Program Advisory Committees (around lunch tables) to facilitate collaborative activities. Having multipurpose space in a renovated or new building is cost-effective and necessary.

#### ***Impact for Design: Breakfast/Lunch Programs***

- With an eventual increase in student population, we need a cafeteria with more than two serving lines so that we are not forced to lengthen the lunches, which already encompass nearly two hours of the school day.
- Future cafeteria space must have more space so the number of lunches can be reduced and open up the space for other activities during the school day. The cafeteria should be in close proximity to restrooms, the gymnasium and to some courtyard/outdoor space that is secure.
- SST would like to investigate the concept of an open, multi-purpose student commons in lieu of a traditional high school cafeteria.
- Office space near the cafeteria will assist with staff who often use the lunch window of time to communicate with students (e.g. main office staff, counselors, athletics)
- Oftentimes students do not need the full lunch period for dining and would prefer to exercise or get fresh air. The cafeteria should also have adjacent space with natural light for students who seek a less noisy lunch experience.
- Adjacent storage for tables, chairs and other equipment will allow the cafeteria space to be used more easily for multiple purposes.
- **Staffing:** 4 cafeteria aides

#### **3.1.2.9 J. Technology Instruction Policies and Program Requirements**

South Shore Technical began our first pilot of a 1:1 initiative in September of 2011 when we started a 2 year long ipad pilot program. Although this pilot was successful in terms of seeing the advantage of each student having a device, we soon realized that an iPad was not the appropriate device for the needs of our departments. We then decided to continue the pilot but to transition to chromebooks. We decided to purchase Chromebook carts to be placed in each classroom. In some areas, where appropriate based on the software needs of the program, we purchased Windows laptops or Apple iMacs. This model continued

successfully until 2020, when COVID forced us to dismantle the carts in order to distribute the devices to each individual student to allow them to have devices at home to accommodate remote learning. We have continued this model post-COVID, and now purchase a new Chromebook for each incoming student which is assigned to them for their 4 years of high school.

Teachers are issued a device appropriate for their needs. Most elect for a Windows laptop but we do still have a few who prefer a desktop computer or an Apple Macbook where needed to support program-specific software. 90% of classrooms are set up with 65-75" LCD touchscreen devices with integrated PC's. The remaining 10% elected to have LED TV's mounted on the wall with micro PC's mounted behind the screen. Staff either utilize the integrated PC's using a wireless keyboard/mouse to control these devices or can utilize software integrated within the device to allow for wireless presentation to the devices.

Our network infrastructure consists of 3 IDF's feeding 1 MDF, connected via redundant and physically separated 10gb fiber so that an outage in one area will not affect the entire building. Lab spaces or departments requiring higher bandwidth have dedicated switches. Only the MDF is air conditioned and backup power is provided only by a UPS in the MDF; there is no backup generator power available to the core network devices. Wired connections are available in all areas of the building along with wireless access points throughout the facility to provide sufficient wireless coverage to support our needs. We do not currently have any wireless coverage to the outside of the campus. Additionally, the building materials of the school severely impacts the coverage area of our wireless access points.

The Technology department at SST consists of the Director of Technology, one Technical Support specialist, and one Administrative Assistant. Additionally, during the school year students in our Computer Information Technology Department provide front-line technical support as appropriate. The IT office has moved 5 times in the past 15 years to help alleviate space issues in the building. We are currently located in an off-campus building located next to the school. The three members of the IT department are in one small room with enough space for just our 3 desks and our computers. Inside the School we have a dedicated space located adjacent to our MDF which allows for storage of our parts and a work surface to perform hardware repairs. We also have shelving space available in some of the IDF's to allow for some additional storage. The lack of space and storage is a critical problem. The department needs a central location with sufficient office space, meeting/training space, space for benchwork, and space for storage of not only small parts (computer components, wires, cables, etc) but also for large AV equipment. When large purchases are made, which happens every summer and several times throughout the school year, we have to find a classroom or conference room to take over for storage and configuration prior to distribution to students/departments.

Physical security of network components and equipment is also a critical issue. Since the IDF's are not air conditioned and, in many instances, are in a location that is shared storage for other things, often the doors are left open (for ventilation) and many people have access to these areas. In a new or redesigned building it is imperative that our network closets are dedicated spaces with adequate conditioning/ventilation, that our storage areas are secure, and that our office and work spaces provide the ability to train and support our staff while also keeping the expensive equipment and sensitive data secure.

Our phone system is an antiquated local PBX that is under the control of our Building Grounds and Maintenance Department. We recently installed a SIP gateway to allow for some very limited VOIP

capabilities. Our Internet and phone lines are serviced by a dedicated 1gb symmetric fiber connection, with a backup 100mb broadband connection. We also maintain a 300mb fiber EPL between the main campus and the adjacent building housing the District Office. The District Office is utilizing Zoom Phone which we hope to be able to expand to the entire school as part of a renovation. This was not feasible currently due to the CAT3 wiring that is currently in place to each phone in all the classrooms and offices.

The IT department at SST is dedicated to providing the resources, support, and infrastructure required to meet the technical demands of our students and staff. We aim to follow industry best practices for managing and maintaining a robust, secure and reliable infrastructure.

***Impact for Design: Technology Instruction Policies and Program Requirements***

- Design should assume that there is easily accessible technology throughout the building and grounds.
- 1:1 technology for students
- Plentiful access to charging stations for portable devices
- All industry standards for reliable connectivity should be implemented.
- **Staffing:** 2 additional technical support staff; 1 additional instructional support staff.

**3.1.2.11 K. Art Program**

SST does not have a visual arts program, but there is an extracurricular Art Club. SST's art club uses a shop footprint for meetings and then has spring presentation displays in the gymnasium.

***Impact for Design: Art Program***

SST does not envision adding a formal Art program to the curriculum.

**3.1.2.12 L. Music/Performing Arts Program**

SST has a popular extracurricular Drama Club that competes regionally. They have performances on campus and require rehearsal space. The Drama Club currently uses classrooms for rehearsal and also occupies our only undersized 65 seat lecture hall for set design and construction each spring.

***Impact for Design: Music/Performing Arts Program***

SST does not envision adding a formal Music program to the curriculum.

- Multipurpose space with a stage and raised seating for presentations, larger group workshops and instruction and performances is necessary. Such an area will support the whole school and also foster opportunities for arts programming at SST that does not exist currently.
- A flat-floor space with retractable seating may be particularly appropriate for SST's variety of presentation and performance needs.
- Adequate adjacent storage and backstage support spaces should also be provided.

**3.1.2.10 M. Library/Media Center**

The school has scaled back its library media center out of necessity to make more room for its Chapter 74 programs. The LMC occupies a portion of our lecture hall. It is staffed by a 1.0 Library Media Specialist. The space is too small to accommodate classes but it is adjacent to the sole 65 seat lecture hall which can

be used under some circumstances as alternative instructional space. The tiered seating does not lend itself to much collaborative activity. The space is open by appointment for teachers/classes and is also open during the 9th period window each day.

***Impact for Design: Library/Media Center***

- The future of the LMC is in its programming and support for digital literacy and research skills initiatives.
- The space must be flexible enough to accommodate whole classes, as well as individual students (before, during and after school), and equipped with flexible furniture, mobile technology and supporting equipment for demonstrations and presentations.
- Interior rooms for quiet study, small group discussions and work space for the library media specialist are also essential ingredients. After hours, the LMC is an ideal place for meetings, PLC meetings and after school club activities.
- Note: In the event of space limitations, the LMC does not need to be a single location, but rather could be decentralized in smaller gathering hubs throughout the building. The Library Media Specialist would push-in most services into instructional areas, gathering with students in more than one location as needed.
- **Staffing:** None

### **3.1.2.14 O. Special Education**

The Special Education Department continues to expand as our student population and needs increase. Special educators are dual-certified and can be assigned a classroom where they are the lead teacher with a paraprofessional or are in a co-teacher model.

The number of students with disabilities tends to average around one third of our total student population. Our students tend to be classified in the low to moderate disability category with a very small number of severe needs. In the academic settings, teachers are working on goals in the areas of reading, writing, math, and comprehension. Our speech and language pathologist works on goals in the areas of executive functioning, social, and communication/language skills. Our adjustment counselors work closely with students with goals in the area of social / emotional and self-advocacy. In the vocational setting, students' goals are in the area of employability and self-management/task initiative.

The district's special education approach is one of inclusion, to the greatest extent possible. There are no substantially separate programs that would require dedicated, self-contained classrooms. Our co-teaching and paraprofessional supported model creates opportunities for students with disabilities to learn among their non-disabled peers in both the academic and vocational settings. Although this model is a success for student learning and growth, there is a shortfall in the pockets of space available for special educators and paraprofessionals to work in small group settings to reteach, review, and accommodate appropriately for testing purposes. Staff tend to shuffle quickly to find a space available around the building which can take up time. Classrooms should have small areas within the space that allows for small groups of students to get what they need through direct instruction and/or to support collaboration and teamwork. An area where students do not feel they are being pulled out or taken away from the rest of the class. The movement to this space should flow so it does not disrupt or distract.

In addition to the classroom space, there should be a more centralized area for students to receive tutoring and/or support in a learning center space that is open before, during, and after school. This space could be used for our MA Rehab Liaisons who work closely with a sub group of students on PRE-ETS skills.

#### ***Impact for Design: Special Education***

- The Special Education Department consists of the Director of Special Education, Team Chair, School Psychologist, Speech and Language Pathologist, 2 Adjustment Counselors, 7 Special Educators, 7 Special Education Paraprofessionals and 1 BCBA (contracted position).
- The administration offices should include an area for the special ed director and the administrative assistant to store files and conduct all special education operations.
- There should be a private office for the team chair, school psychologist, speech and language pathologist, and BCBA (as needed).
- In addition, the office space should include a dedicated conference room to accommodate the numerous in person and virtual meetings with parents, staff, students, and specialists.
- In the academic classroom zone of a new or renovated building there should be Special Ed spaces in a variety of sizes convenient to the general classrooms. These spaces could range from one-to-one tutoring to 8 to 12 student small groups.
- SST has staffing and space limitations during MCAS testing. Older students in grades 11 and 12 are placed on a delayed start because of the number of teachers and paraprofessionals needed for small groups and 1:1 accommodations. These required accommodations create spacing issues where students are using larger classroom spaces. More ideal arrangements in a new building would include small break out areas for testing purposes, not just for MCAS but also for IEP evaluation testing.
- **Staffing:** 1 teacher for every 90 students; 1 paraprofessional for every 90 students

## **P. Target Service Programs**

### **1. MCAS Support**

Academic staff and paraprofessionals support students to prepare for MCAS. Our content teachers are on the frontlines of delivering instruction in their settings. Remediation occurs for students in a variety of ways to ensure that each student has the opportunity to prepare for an MCAS assessment. Staff works together to identify the areas of strengths and weakness that each student possesses. Any student including additional support will be invited to a series of MCAS bootcamp sessions which run after school in the areas of ELA, math, and science. In addition, we offer MCAS support during p. 9 or during shop week. All support offerings vary depending on the students' current identified needs.

### **2. After School Homework Club**

The after school homework club is a space where students have the opportunity to work with paraprofessionals in core subject areas. During this time, students have the opportunity to work on assignments and review for assessments. They receive the support that is just right for them. Some prefer to work with staff one-to-one, in a small group, or choose to work independently. Teachers, paraprofessionals, and counselors utilize this time to build relationships with students, help fill gaps, and accelerate learning. The homework club is available for students Monday - Thursday after school. Students have the option to stay until 4 pm or they can be picked up when they are done. The At-Risk Coordinator manages the space to keep track of student attendance and assignments, and communicates with teachers and the administrative team as needed.

### 3. English Language Learner Support

Our ELL student population is fairly small, about 1-2%. Our ESL instructor works with our ELL students directly in the classroom and during period 9 or during shop week. ELL students are scheduled into academic classes and our ESL is placed in their English and science classes. The instructor is dual certified in Special Education and ESL. Our ESL teacher supports her caseload of students in their vocational programs working closely with vocational instructors. In addition, the ESL instructor shares the responsibilities of WIDA and ACCESS requirements with the Director of Special Education.

#### ***Impact for Design***

- Dedicated space for targeted services to be housed near common areas or main entrances to minimize student traffic throughout the building after school hours.

### Q. Health Services/School Nurse

SST currently has 1 school nurse and is in the process of hiring a part time school nurse with a goal of furnishing an office as a satellite nurse station closer to some of the Chapter 74 programs. The current nurse's office space is too small, with inadequate space to attend properly to the varying needs of students. Space for private communications is also a challenge in this space. We did construct a small office and install privacy curtains to address these limitations, but it is not enough.

#### ***Impact for Design***

- There is a need for 2 health services areas, with at least one in close proximity to shop areas where most accidents occur and one closer to the main entrance and Student Services area.
- Each area needs a single use bathroom, office and consultation space and privacy curtains, and adequate storage for medical supplies.
- **Staffing:** None. The goal will be to have 2 school nurses on staff for the current building footprint. No new staff will be added.

### 3.1.2.15 R. Vocational Education Programs and Cooperative Education

#### 1. Current Conditions and Impact for Design

##### a. Allied Health

- **Staffing:** 2 teachers, 0.5 aide
- **Space:** 1 shop space and one adjacent lab/classroom
- **Space Utilization:** 100% of school day
- **Description:** The current Allied Health shop space is 1680 sq ft which is used for up to 24 students and two teachers. In 2008 NEASC recommendations included reorganizing the shop area, which was done promptly. Despite these adjustments, there is a lack of space preventing an increase of students while still maintaining the course curriculum as currently designed. The current footprint contains 4 bed bays which are used for most clinical skills, 1 doctor office setup and an anatomage table. The shop space also has 15 tables that seat a total of 30 students and 9 tables in the related classroom that seat an additional 18 students.



***Impact for Design: Allied Health***

- A properly sized lab for science-related courses
- Shop space for skills practice and application
- A classroom setting for theory and medical terminology coursework which is a significant part of the program
- Space for simulated hospital beds to practice patient care
- Space for simulated office setting
- **Staffing:** 1 additional teacher

---

**b. Automotive**

- **Staffing:** 4 teachers
- **Space:** 2 non-adjacent shop footprints; one windowless classroom
- **Space Utilization:** 100% of school day
- **Description:** Structurally, the Automotive shop has remained the same since it was built in 1962. The shop has 3,458 sq. ft. of instructional space for up to 30 students on any given instructional day. There are not enough stations for students to train effectively. High student to station ratios (e.g. working on cars) means that students are not able to practice sufficiently the skills being taught. The current automotive program consists of two separate footprints. The footprints have a total of 20 workstations consisting of lifts, lecture area, tire mounting and balancing area, tool crib, spray booth, paint prep and tire repair stations.

***Impact for Design: Automotive***

- Sufficient stations so that two students can work on one car to practice skills taught in the shop.
- A dedicated diagnostics bay and tire mounting/balancing and brake machining repair area.
- A dedicated engine and transmission repair area to be used for senior projects and tear downs.
- Sufficient storage that does not compromise instructional space
- An interior classroom for ease of theory instruction for whole group and small group supports.
- **Staffing:** No changes

---

**c. Carpentry**

- **Staffing:** 3 teachers, 0.8 aide
- **Space:** 1 shop space; 1 non adjacent shared classroom
- **Space Utilization:** 100% of school day
- **Description:** The Carpentry shop is undersized and the instructional model depends entirely on (a) students being placed on co-op and (b) 11th and 12th grade students who are not on co-op having an off campus or outside-the-shop project. Horizontal work stations are only recently enhanced through a state grant for more equipment. Ratios of fixed equipment to students are high, increasing waiting times on projects. The current carpentry program consists of 8 benches which are able to have 2 students per bench yielding 16 available spaces for students. In addition to the workbenches there are an additional 10+ workstations that are made up of equipment such as the drill press, planer, router tables, joiners and more. The program has the ability to add more benches after the outside renovation is completed. In addition, the upperclassmen work on outside jobs/projects which helps alleviate the pressure in the footprint

***Impact for Design: Carpentry***

- A renovated shop space will have more equipment, adequately spaced.
- It will be large enough to properly accommodate the students in the program in the event that co-op numbers and/or availability of off campus projects was limited
- There will be more horizontal table space for underclassmen to learn the basics of the curriculum.
- **Staffing:** 1 additional teacher

---

**d. Computer Information Technology**

- **Staffing:** 2 teachers
- **Space:** 1 shop space (no related space)
- **Space Utilization:** 100% of school day
- **Description:** The CIT program is housed in essentially two adjacent classrooms, with students segregated by grade level at opposite ends of the program. Conflicting noise levels and activities between the groups is oftentimes distracting. Power supply needs are often a challenge. The current footprint has 14 tables on one side of the room and 11 tables on the other side of the room. They have an additional 3 other tables in the middle of the room. They are able to accommodate up to 30 students with the current amount of seating.

***Impact for Design: Computer Information Technology***

- A renovated shop space would have provisions for noise reduction between grade levels, adequate power supply for changing technology/device needs, and
- a common area for the program that will allow for demonstrations and the location of equipment that it used at multiple grade levels.
- **Staffing:** No changes

---

**e. Cosmetology**

- **Staffing:** 3 teachers
- **Space:** One shop area for salon/live work and a renovated classroom adjacent for underclassmen training
- **Space Utilization:** 100% of school day
- **Description:** The program has an undersized space for grade 9 and 10 students. Students are in close proximity and there are line of sight challenges for the instructors and students to see demonstrations. There is a salon area open to the public that needs additional space to accommodate additional grade 11-12 students to take on clients. The current footprint includes 14 wet styling stations (with sinks), 14 dry styling stations, all have rolling station with drawers, 2 shampoo bowls, 2 facial beds and vanity with sink, 2 wax stations, 1 pedicure chair, 6 manicure stations in the salon, 8 portable manicure tables, Reception area and a Supply/dispensary area. The department also has a learning lounge with seating for 14+ (can accommodate 28 to fit both classes).
- Program hours used toward licensure requirements
  - 1,000 hours obtained to sit for the Cosmetology State Board exam
  - 500 of those hours can be put towards 1,000 hour requirement for barbering

***Impact for Design: Cosmetology***

- Properly sized space for grade 9-10 student instruction that includes separate space for chemicals and storage
- Properly sized salon in proximity to the waiting area with adequate space for storage, chemical storage and an aesthetician space.
- Future program expansion considerations to include barbering.
- A reception area for clients separated from the instructional space while waiting for services
- Design location in an area that is secure and easily accessible for the public.
- Dedicated related theory space for classroom instruction, industry demonstrations and career seminars.
- **Staffing:** 1 licensed paraprofessional (0.8)

---

**f. Culinary Arts**

- **Staffing:** 3 teachers, 0.5 paraprofessional
- **Space:** One shop space including a front and back of the house restaurant, dry storage space, locker rooms and student restrooms, and an adjacent classroom that is often used by academic classes
- **Space Utilization:** 100% of school day
- **Description:** The program has inadequate space for serving customers in our restaurant, including space for take out food, bakery displays and service area storage. A proper demonstration area outside of the restaurant for service training and cooking skills is necessary. It was converted due to a lack of academic classroom space. The current footprint includes 40+ workstations including the line, prep area, grills, steam kettle, ovens, bakery stations, mixers, dishwashers and front of the house.

***Impact for Design: Culinary Arts***

- Restaurant service space to house at least people with the potential to section off an area for business meetings for community groups while allowing for patrons to enjoy lunch at the restaurant.
- Adequate space for take out so that it does not crowd patrons sitting for lunch.
- Improved line of sight supervision from the restaurant into the back of the program.
- Dedicated related theory/demonstration space.
- **Staffing:** 1 additional teacher.

---

**g. Electrical**

- **Staffing:** 4 teachers
- **Space:** One shop space with student restrooms; adjacent classroom
- **Space Utilization:** 100% of school day
- **Description:** Students are being instructed in booths that are stacked (a second floor). The program popularity (highest enrollment) would be adversely impacted were it not for high co-op placement and available projects to be undertaken around the building. The electrical footprint currently consists of 32 workstations (booths) throughout the shop.
- Program hours used toward licensure requirements”
  - 2,000 hours of electrical shop/working
  - 300 hours of Massachusetts electrical code training

***Impact for Design: Electrical***

- Adequate space to accommodate students with ground floor instructional space.
- **Staffing:** 1 additional paraprofessional (0.8).

---

**h. Manufacturing Engineering Technology**

- **Staffing:** 2.5 teachers, 1 aide
- **Space:** 2 non-adjacent shop footprints; 1 adjacent classroom
- **Space Utilization:** 100% of school day
- **Description:** The program has excellent equipment at reasonable student to equipment ratios, but it has been placed in a space that is too small. There is a clean room that was retrofitted under a mezzanine as part of the adjacent program and there is no dedicated classroom space within the shop. There is no demonstration space for students. The current footprint consists of two separate shop spaces. There are 25 machine stations not including secondary machines like saws and drill presses. The 306 footprint has an additional 16 machine stations.

***Impact for Design: Manufacturing Engineering Technology***

- Program space must take into consideration the placement of existing equipment and the potential for new industry equipment.
- Space for students and teachers to gather on the shop floor
- Adequate ground level storage
- Larger clean room/inspection room
- Dedicated related theory classroom
- **Staffing:** No changes

---

**i. Design Visual Communication**

- **Staffing:** 3 teachers
- **Space:** 1 shop space with interior classroom, interior copy center, interior paper storage and student restrooms
- **Space Utilization:** 100% of school day
- **Description:** The program has important instructional areas that require both traditional classroom space with 1:1 devices, as well as the need for larger ventilated space for silkscreening, paper cutting and copy/print areas. The program is housed in a high bay area currently but that is no longer necessary due to changes in industry over the last 30 years. The current footprint is made up of 45 workstations including computers, printers, screen printing, cutters and other various equipment.

***Impact for Design: Design Visual Communication***

- Dedicated computer lab/design space.
- Specialized space for digital content creation (e.g. studio) and photography.
- Adequate paper and supplies storage.
- Consideration for layout of the silkscreen area and the other larger equipment in the program.
- Development of this program as a front facing program with a public presence for services and products.

- Display/storefront area for work products.
- **Staffing:** No changes.

**j. Horticulture Landscape Construction**

- **Staffing:** 3 teachers
- **Space:** 1 shop space inside the building; 1 barn area for outside work, 1 greenhouse non adjacent to the barn area
- **Space Utilization:** 100% of school day
- **Description:** The Horticulture program is housed in disparate locations making the program coordination a challenge. There is space inside the school for a shop setting used for related instructional and floral arrangements; however the space cannot contain 2 grades of students, which means that one grade is usually in an outside location. The horticulture program currently has 8 work stations in the barn for irrigation clock wiring, landscape lighting, and raised hardscape projects. The classroom/shop has table seating for 40 students. The department has more than 20 individual pieces of equipment for use throughout the day. In addition the department has a greenhouse which also has 10+ student stations/workbenches.

***Impact for Design: Horticulture Landscape Construction***

- First floor program placement with easy outdoor access to greenhouse and grounds equipment and vehicles.
- Single indoor space large enough to accommodate the wide ranging parts of the curriculum.
- Dedicated classroom space within the shop footprint.
- Flexible furniture that can be used for lab space, flower arranging, small equipment repair and traditional classroom work.
- **Staffing:** 1 additional paraprofessional (0.8).

**k. HVAC-R**

- **Staffing:** 3 teachers
- **Space:** 2 adjacent shop spaces connected by an open wall; no adjacent classroom; student restroom
- **Space Utilization:** 100% of school day
- **Description:** We added a third teacher to this program to expand the program's outreach into plumbing. We are relegated to storing materials in outside storage containers and rack storage adjacent to the shop. Students often work outside the shop in an adjacent courtyard when weather permits. The current footprint consists of 60+ workstations including boilers, work tables, sheet metal fabrication, refrigeration stations, sink workstations, water heater stations, and plumbing booths.
- Program hours toward code/licensure requirements
  - 750 hours of refrigeration shop instruction
  - 150 hours of refrigeration theoretical instruction
  - 100 hours of Massachusetts electrical code training
  - 150 hours of shop for sheet metal
  - 150 hours credit toward the work hours requirement for a Pipefitters license

**Impact for Design: HVAC-R**

- Dedicated theory classroom
- First floor priority for material delivery
- Equipment layout that does not impact supervisory line of sight
- Ventilation system with sufficient capacity to handle increased enrollment
- **Staffing:** a third HVAC teacher if there is a separate Plumbing program established

---

**I. Metal Fabrication Welding**

- **Staffing:** 3 teachers
- **Space:** 1 shop space with interior classroom
- **Space Utilization:** 100% of school day
- **Description:** The metal fabrication & welding program is properly spaced for current enrollment only. The lighting and ventilation system are not ideal but we have made recent improvements. The shop has an undersized, windowless related room adjacent to the shop. Supervisory lines of sight are challenging. The current shop footprint is made up of 14 stick booth work stations, 8 mig booths, 8 oxy fuel stations and 8 work benches which accommodate 2 students each for a total of 16.

**Impact for Design: Metal Fabrication Welding**

- Dedicated theory classroom
- First floor priority for material delivery
- Equipment layout that does not impact supervisory line of sight
- Ventilation system with sufficient capacity to handle increased enrollment
- **Staffing:** 1 additional teacher

---

**2. Additional Considerations for Chapter 74 Space**

**a. Potential Expansion of Chapter 74 Programs**

SST identified several potential Chapter 74 programs that are economically viable in the Southeast Region and the Department of Elementary and Secondary Education concurred that these programs, while subject to the Chapter 74 approval process, are seen as viable. Two 'stand alone' programs, Animal Science and Plumbing and one integrated program, Medical Assisting are being considered as part of early design models.

<b>Potential Program</b>	<b>Stand Alone or Integrated</b>	<b>Status</b>
<b>Veterinary Science</b>	<b>Stand Alone</b>	<b>Recommended for design consideration</b>
<i>Biotechnology</i>	<i>Integrated with Manufacturing Engineering Technology</i>	<i>Not recommended at this time</i>
<i>Dental Assisting</i>	<i>Stand Alone</i>	<i>Not recommended at this time</i>
<i>Early Childhood Education</i>	<i>Stand Alone</i>	<i>Not recommended at this time</i>

<b>Medical Assisting</b>	<b>Integrated with Allied Health</b>	<b>Recommended for design consideration, but not as a stand alone program.</b>
<b>Plumbing</b>	<b>Integrated with HVAC-R initially but eventual Stand Alone</b>	<b>Recommended for design consideration</b>

***Impact for Design:***

**Plumbing:**

- High bay shop space, ideally near HVAC program.
- Dedicated related classroom and bathroom within the shop footprint.
- Similar needs as other construction programs for power, lighting, ventilation, wall and table/work space.
- **Staffing:** 1 teacher to join the current Plumbing teacher who is part of HVAC program.

**Veterinary Science**

- Program would focus on veterinary assisting training.
- DESE has frameworks for veterinary science in draft version out for public comment at this time.
- **Staffing:** 2 teachers and one technical aide.

**Medical Assisting**

- Additional minimal space within the shop footprint to accommodate curriculum equipment and supplies.
- **Staffing:** 1 teacher to be integrated with the Allied Health program.

After construction has finished, the Plumbing program could be implemented immediately after obtaining DESE approval. Animal Science and Medical Assisting would take one year to implement, subject to appropriation.

**b. Skills USA/FFA**

We also have robust co-curricular SkillsUSA and Future Farmers of America (FFA) activities throughout the school year, mostly in the form of competitions at the local and state level.

***Impact for Design:***

- After school space is essential for students to have meetings and practice for competitions. A multipurpose auditorium space is ideal for such use.

**c. Cooperative Education/Internship Program**

SST is proud to offer the benefit of cooperative education and internships to our students and businesses within our communities. We rely on businesses to support our mission of providing rigorous and relevant hands-on instructional experiences in order to develop confident, civic-minded students who achieve ambitious career goals leading to their personal fulfillment, economic independence, and a positive impact on their community. In return, employers are able to recruit and hire eager workers who are well versed in the language, procedures, and technology of the industry.

We believe in the value of experience-based learning. Our goal is to engage students in a process of learning that links work and experience with classroom knowledge. The educational opportunities that employers afford our students speak volumes to their commitment to youth, education, and community. We provide qualified students who have obtained 1.5 years of specific shop experience, are licensed (if applicable) and who best fits your needs. Employers will interview our students and if it's a good match, the student is hired as an employee of the company.

Following Chapter 74 Cooperative Education guidelines, students who are 16 years of age and older, with appropriate skills, grades and interest may participate in the Cooperative Education/Internship program. Seniors are eligible for co-op at the start of each school year and Juniors become eligible after the first half of each school year. Students participating in co-op are required to pass in a weekly timecard and journal indicating their hours worked (minimum of 30) and a paragraph explaining the work experience for that week. In addition to the student timecard, the employer also fills out a timecard which lists the hours worked by the student and comments & or concerns the employer might have. Our cooperative education agreement is signed electronically in DocuSign by the employer, student, parent, vocational teacher and the Director of Vocational Education.

***Impact for Design: Cooperative Education/Internships***

- Dedicated office space for the cooperative education program is essential. It must be in proximity to Chapter 74 instructional areas and easily accessible for employers when visiting the school
- Space should include a conference room, office for an administrator and space for an administrative assistant, plus waiting room space for students.

### **3.1.2.16 S. Transportation Policies**

SST owns its bus fleet and employs its own drivers. We currently own 15 buses and six 14 person vehicles used for field trips, athletics and Chapter 74 program transportation to job sites. We employ 11 bus drivers and our 6 custodians are required to maintain bus driving licenses as well to service as back up bus drivers. SST has a Transportation Coordinator who manages maintenance, scheduling and routes.

In the 2023-2024 school year, SST operates 13 bus routes for district communities, running morning pick up and afternoon dismissal runs, along with daily late bus (4PM and 6PM) routes for students staying after school for extra help and athletics respectively. Athletic runs are also handled by our staff.

One of our significant space challenges is that we house our own fleet on campus which takes up the equivalent of 55 student parking spaces, and this space is difficult for bus drivers to park and turn around buses. With a new building and a well designed layout, we can have adequate space for buses to be stored when not in use, and to mobilize for the crowded dismissal window in an area that does not interfere with parent pickup.

With additional student enrollment the district will need to anticipate more space on campus for bus storage, and will likely need to consider leasing or purchasing space off campus to house our bus fleet and/ or consider getting transportation services through a third party provider.

***Impact on design: Transportation Policies***

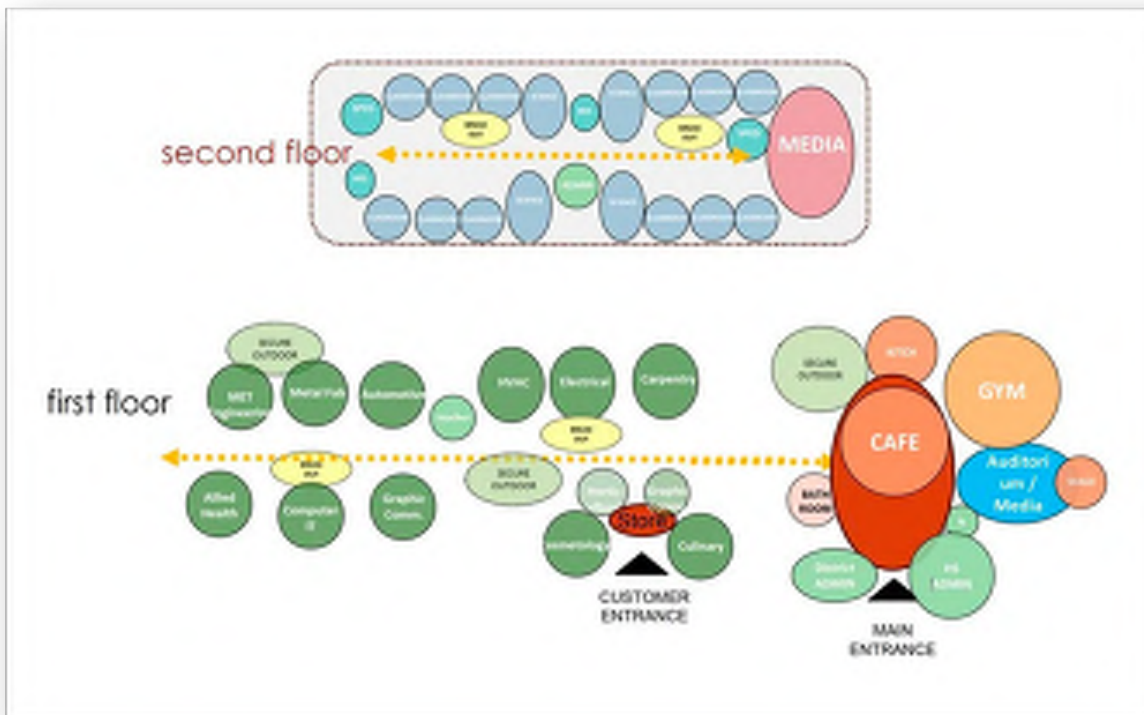


- Space for school bus storage on campus during the day that is easy to assemble for afternoon dismissal.
- Transportation coordinator office location in close proximity to the bus location that includes sufficient space for bus drivers to attend professional development meetings.
- Charging stations for eventual conversion to electric fleet as industry trends and cost allow.
- Supplies storage needed.
- Maintenance space for small repairs.
- Space for snow removal devices to be installed.
- **Staffing:** 1 Administrative Assistant for Transportation Department (shared with other operational departments such as food service and maintenance); 1 bus driver for every 60 new students.

### 3.1.2.17 T. Functional and Spatial Relationships

SST's leadership team met with New Vista Design in May 2023 to prepare for upcoming visioning sessions. Then on June 20, July 11, and July 18, 2023, SST's larger visioning group, consisting of 7 students, 9 teachers, 1 paraprofessional, 6 administrators, 7 parents/caregivers, participated in three virtual workshops run by New Vista Design. There was also a community forum held on July 13 for the SST community at large to hear about the visioning process and ask questions.

Workshop Three focused on reviewing the preferred Design Patterns, confirming the Guiding Principles and developing Whole-School diagrams. The EVG team worked in small groups with the aid of the Design Team to develop the following two Whole-School diagrams:



**Diagram Attributes:**

- Main entrance area with access to Administration, Nurse's Office, and an area for display in the main lobby area.
- Public spaces off the main entry that include the gym, cafeteria, and kitchen.
- A small café area for students who don't want to be in the large and loud cafeteria.
- A Media Center that serves as a flexible learning space right up front as a face for the building with an adjacent performance area.
- The ability to see a lot of activity going on in the entry area, including an enclosed courtyard behind, like the West Bridgewater Middle High School. Something that is open and gets kids outside.
- A separate community entry with access to some of the public shop spaces.
- Outdoor areas associated with some of the shops.
- A multi-purpose art room that is connected to Graphics and other shops that want to utilize art.
- Academic areas that are small clusters of classrooms and including Science Rooms and small group areas where quiet work can be done.
- A Student Services area that is adjacent to the academic areas and acts as a second administrative suite.



### Diagram Attributes:

- The group is not sure about academic and career tech integration and what the real benefits and value are. In this diagram academics and vocational are not shown close together.
- There could be a potential 3-D connection between CTE on the first floor and academics on the second floor.
- A “heart of school” near the main entry, maybe the Student Commons.
- Separate customer entry that is limited in how far you can get into the school.
- A school store for not just Culinary and Cosmetology, but shops like Graphics, that makes and prints things, and Horticulture with plants to sell.
- Grouping shops in career clusters, such as MET and Metal Fab being next to each other because they share a lot of equipment and resources, and the construction shops.
- Separation between academic and public areas.

#### ***Impact on design: Functional and Spatial Relationships***

- The Design Team will continue to explore options that capture the design attributes described in the above diagrams.

### U. Key Programmatic Adjacencies

The above diagrams capture the important adjacencies in SST’s vision:

- Programmatic spaces that need to be near an entrance: Admin, SpEd Office, Nurse, Gym, Auditorium, public accessible CTE programs.
- A dedicated customer entrance for secure, but limited public access to Culinary, Cosmetology, and Horticulture’s floral shop. If space permits, Design Visual Communications often has public traffic (client consultations, work product pick up) and could benefit from proximity that is close to the customer entrance.
- Academic classrooms in proximity to the Library Media Center.
- Small group rooms and pullout spaces in close proximity to General Ed classrooms.
- Similar CTE shops grouped similar (but not limited to) Career cluster groupings.
- Science Labs paired with shared prep rooms, perhaps stacked; not necessarily in a department configuration.
- Administration personnel distributed through the building for supervision and accessibility to students.
- Teacher Planning rooms distributed through the academic areas in close proximity to classrooms.

#### ***Impact on design: Key Programmatic Adjacencies***

- The key programmatic adjacencies are captured in the attached diagrams and listed above.

### 3.1.2.18 V. Security and Visual Access Requirements

#### 1. Relationship with Host Community

SST has an excellent working relationship with our local police and fire departments. There is an SRO on campus 3 days a week/ Every year our SRO and Administrators work together to provide ALICE training to

all staff and students. Our SRO also does a yearly security check and brings back a report for the school to review and make corrections. The District serves as one of the region's Medflight Land Zones. It would be the intention of the District to remain one of the region's Med FLight Land Zones in a new or renovated facility.

## **2. Committees, Plans and Inspections**

SST participates in annual fire department inspections of the building and maintains a current Emergency Action Plan and Medical Emergency Response Plan. SST has a school safety committee that meets throughout the year to discuss concerns and what we can do to resolve these concerns. This committee is organized by the Vocational Office.

## **3. Doors, Entrances, Visitors and Perimeter Security**

The current facility has one main entrance but there is also a public entrance near our school restaurant and salon. Most exterior doors are equipped with electronic access control with cameras at their location. The entrance at the front of the building is locked after 8:00 AM. Upon entering, a visitor will encounter the reception desk only at the main entrance where they will have an ID scanned through our Raptor system and then issued an ID badge. This desk is equipped with a two-way radio, phone, and computer. Our Raptor program scans licenses then runs a rudimentary background check and generates a credential for the visitor to wear throughout their stay in the building.

One challenge to note as a regional technical high school is the community's use of the facility and the extensive number of vendors that deliver products to the school. Our Culinary Arts, Cosmetology, Auto Tech, Metal Fab, Maintenance, Electrical, MET, and DVC all have frequent deliveries to the back of the building.

The existing facility has over 40 interior and exterior video cameras, with remote access. Currently the Hanover Police Department has access to our cameras, but the Hanover Fire Department does not. All camera views are digitally recorded and stored for approximately thirty (30) days.

## **4. Parking and Car Access**

There is only one access road coming into SST. Currently, the facility has an easily discernible main entrance but then offers you two routes around the back of the building. The school is lined with parking spaces all around the footprint which is for visitors, students, staff and administration. Anyone coming to SST can drive onto campus without any check points off Webster Street. Our current entrance is set up to be one way as it is on a curve. All traffic comes in and either goes to the right or left. In the morning there can be a backup on the street as we have buses, student drivers, faculty and parents dropping the student off all happening in a short time frame.

The parking lot in front of the building is generally full. However, part of the lot is shared with those going into the salon and restaurant. This is a source of great concern and requires daily monitoring since visitors to the salon and restaurant regularly park in areas of the lot designated for SST.

Our exit at dismissal time has three lanes of traffic that merge into two lanes and also has crossover that results in congestion. In addition, parents who pick their students up tend to line up across the front of the

building and also out on the street. Over the years we have had a few accidents due to the congestion while exiting the school. Our current parking lots do not allow for enough parking to meet our current demands.

***Impact on design: Security and Visual Access Requirements***

- With a new building we will have adequate parking for all staff, students and visitors.
- The new building will offer a better traffic flow when entering and exiting the campus. This improved traffic flow will help to limit accidents and also limit the public's access to the back half of our building.
- A new facility will allow for all entry doors to be better monitored and secured during the day and allow us to have every corner of the building monitored by surveillance cameras. A new system would be web based so it can be viewed by Administration even when they are not in the building.
- **Staffing:** 1 paraprofessional for building security.

*[End of Educational Program]*









Proposed Space Summary - Regional Vocational Technical High School

DRAFT

645 Enrollment

Date: 9.29.2023 Preliminary Design Program

South Shore Regional Vocational Technical School District <b>SOUTH SHORE TECH</b>	EXISTING CONDITIONS		
ROOM TYPE	ROOM NFA <sup>1</sup>	# OF ROOMS	AREA TOTALS
(Computer Information Tech) Information Support Services and Networking 25 students	1,695	1	1,695
Cosmetology 41 students	324	10	3,242
Culinary Arts 44 students + restaurant	367	14	5,135
Electricity 68 students	534	6	3,206
Design and Visual Communications (includes Graphic Comm.) 45 students	442	8	3,532
Heating, Ventilation, Air Conditioning, Refrigeration 47 students	3,089	1	3,089
Horticulture 51 students	487	4	1,946
(Manufacturing Engineering Tech) Advanced Manufacturing Technology 32 students	1,407	4	5,628
Metal Fabrication and (Welding) Joining Technologies 58 students	1,960	4	7,839
<i>New Programs</i>			
Veterinary Science 38 students	0	0	0
Biotechnology 0 students	0	0	0
Dental Assisting 0 students	0	0	0
Early Education and Care 0 students	0	0	0
Medical Assisting 0 students	0	0	0
Plumbing 57 students	1,488	1	1,488
Programming and Web Development 0 students	0	0	0
<b>HEALTH &amp; PHYSICAL EDUCATION</b>			<b>10,869</b>
Gymnasium	7,152	1	7,152
PE Alternatives	593	1	593
Gym Storeroom	205	2	409
Locker Rooms - Boys and Girls with Toilets	1,023	2	2,045
PE Storage	46	3	139
Athletic Director's Office	134	1	134
Health Instructor's Office with Shower and Toilet	199	2	397
Gender Neutral Locker Room			0
[Enter room type here]			0
[Enter room type here]			0
[Enter room type here]			0
[Enter room type here]			0
<b>MEDIA CENTER</b>			<b>790</b>
Media Center / Reading Room	790	1	790
[Enter room type here]			0
[Enter room type here]			0
[Enter room type here]			0
[Enter room type here]			0
[Enter room type here]			0
<b>AUDITORIUM / DRAMA</b>			<b>1,485</b>
Auditorium / MP Performance/Presentation Space	1,485	1	1,485
Stage / platform area			0
Auditorium Storage			0
Make-up / Dressing Rooms			0
Controls / Lighting / Projection			0
[Enter room type here]			0
<b>DINING &amp; FOOD SERVICE</b>			<b>5,580</b>
Cafeteria / Dining	2,039	2	4,078
Chair / Table Storage	86	1	86
Scramble Serving Area	0	0	0
Kitchen	157	9	1,416
Staff Lunch Room	0	0	0

PROPOSED PROGRAM								
EXISTING TO REMAIN / RENOVATED			NEW CONSTRUCTION			TOTAL		
ROOM NFA <sup>1</sup>	# OF ROOMS	AREA TOTALS	ROOM NFA <sup>1</sup>	# OF ROOMS	AREA TOTALS	ROOM NFA <sup>1</sup>	# OF ROOMS	AREA TOTALS
			2,200	1	2,200	2,200	1	2,200
		0	3,150	1	3,150	3,150	1	3,150
		0	3,950	1	3,950	3,950	1	3,950
		0	7,650	1	7,650	7,650	1	7,650
		0	3,450	1	3,450	3,450	1	3,450
		0	4,800	1	4,800	4,800	1	4,800
		0	4,550	1	4,550	4,550	1	4,550
		0	3,200	1	3,200	3,200	1	3,200
			6,000	1	6,000	6,000	1	6,000
			4,000	1	4,000	4,000	1	4,000
		0	0	1	0	0	1	0
		0	0	1	0	0	1	0
		0	0	1	0	0	1	0
		0	0	1	0	0	1	0
		0	4,350	1	4,350	4,350	1	4,350
		0	0	1	0	0	1	0
		<b>0</b>	<b>18,042</b>		<b>18,042</b>	<b>18,042</b>		<b>18,042</b>
		0	12,000	1	12,000	12,000	1	12,000
		0	3,000	1	3,000	3,000	1	3,000
		0	300	1	300	300	1	300
		0	796	2	1,592	796	2	1,592
		0	500	1	500	500	1	500
		0	150	1	150	150	1	150
		0	125	2	250	125	2	250
		0	250	1	250	250	1	250
		0			0	0	0	0
		0			0	0	0	0
		0			0	0	0	0
		0			0	0	0	0
		0			0	0	0	0
		<b>0</b>	<b>3,650</b>		<b>3,650</b>	<b>3,650</b>		<b>3,650</b>
		0	3,650	1	3,650	3,650	1	3,650
		0			0	0	0	0
		0			0	0	0	0
		0			0	0	0	0
		0			0	0	0	0
		0			0	0	0	0
		0			0	0	0	0
		<b>0</b>	<b>5,636</b>		<b>5,636</b>	<b>5,636</b>		<b>5,636</b>
		0	3,225	1	3,225	3,225	1	3,225
		0	1,200	1	1,200	1,200	1	1,200
		0	411	1	411	411	1	411
		0	300	2	600	300	2	600
		0	200	1	200	200	1	200
		0			0	0	0	0
		<b>0</b>	<b>6,492</b>		<b>6,492</b>	<b>6,492</b>		<b>6,492</b>
		0	3,225	1	3,225	3,225	1	3,225
		0	311	1	311	311	1	311
		0	800	1	800	800	1	800
		0	1,906	1	1,906	1,906	1	1,906
		0	250	1	250	250	1	250

VARIATION TO MSBA GUIDELINES		
ROOM NFA <sup>1</sup>	# OF ROOMS	AREA TOTALS
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	1	0
0	1	0
0	1	0
0	0	0
0	1	0
<b>0</b>	<b>0</b>	<b>0</b>
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
<b>0</b>	<b>0</b>	<b>0</b>
0	0	0
0	0	0
0	0	0
-1,046	1	-250
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
250	1	250
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
<b>0</b>	<b>0</b>	<b>0</b>
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
<b>0</b>	<b>0</b>	<b>0</b>
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
<b>-1,475</b>		<b>-1,475</b>
-1,075	0	-1,075
-400	0	-400
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
<b>0</b>	<b>0</b>	<b>0</b>
0	0	0
0	0	0
200	0	200
-39	0	-39
-161	0	-161

MSBA GUIDELINES (DO NOT MODIFY) (Refer to Educational Facility Planning for additional information)				
ROOM NFA <sup>1</sup>	# OF ROOMS	AREA TOTALS		COMMENTS
2,200	1	2,200		
3,150	1	3,150		
3,950	1	3,950		
7,650	1	7,650		
3,450	1	3,450		
4,800	1	4,800		
4,550	1	4,550		
3,200	1	3,200		
6,000	1	6,000		
0	0	-		
4,000	1	4,000		
0	0	-		
0	0	-		
0	0	-		
0	0	-		
4,350	1	4,350		
0	0	-		
<b>18,042</b>		<b>18,042</b>		Based on full time equivalent enrollment. Excess Physical Education Spaces Policy
12,000	1	12,000		
3,000	1	3,000		
300	1	300		
1,842	1	1,842		5.6 SF per student (full time equivalent enrollment)
500	1	500		
150	1	150		
250	1	250		
<b>3,650</b>		<b>3,650</b>		Based on full time equivalent enrollment.
3,650	1	3,650		
<b>7,111</b>		<b>7,111</b>		Based on total enrollment. Excess Auditorium Spaces Policy
4,300	1	4,300		2/3 enrollment at 10 SF per seat (750 seats max)
1,600	1	1,600		
411	1	411		
300	2	600		
200	1	200		
<b>6,492</b>		<b>6,492</b>		Based on total enrollment.
3,225	1	3,225		3 seatings - 15 SF per seat
311	1	311		
600	1	600		
1,945	1	1,945		1,600 SF for first 300 students + 1 SF per additional student
411	1	411		20 SF per student





## Narrative of Variances to Initial Space Summary Enrollment: 645 Student Option

The Design Team created three separate Space Summary forms for this Feasibility Study; one for each of the potential enrollment targets as called for in the District's Enrollment Certificate: 805 students, 975 students, and one in-between 805 and 975, which the District identified as 900 students.

This narrative of variances between the District's Initial Space Summary and the MSBA Guidelines is for the **645 student option**.

### Variances between Proposed Educational Spaces and MSBA Guidelines

Using the MSBA Space Summary template for Vocational high Schools, we note the following variances between the District's proposed educational spaces and the MSBA guidelines.

#### Core Academic Spaces

The proposed total space in this category exceeds the MSBA guidelines by 2,990 square feet. This is due to the District's calculation that 13 (versus 11) General Classrooms are required to adequately house their proposed course offerings at their typical class size. South Shore Tech's (SST) average class size for academic courses has historically been 20 students. This relates to the nature of a vocational school and their cohort groups. Substituting 20 students in the MSBA's formula in lieu of 23 results in 13 classrooms being needed at 85% utilization. To partially compensate for the greater number of rooms, SST proposes to target a smaller classroom size of 850 square feet versus the guideline's 900 sf.

The Teacher Planning space is proposed to be proportional to the number of classrooms (100 sf per classroom) in alignment with the MSBA guidelines.

The District's class size and scheduling for Science classes also results in a variance between the proposed 4 Labs versus the guidelines 3 Labs. The template's formula is again based upon 23 students per class, while SST's average class size is 20 students per class. Also, the template's formula is based on 5 periods of science out of an available total of 30 periods (17%), while SST's schedule for Science is one double block (2 periods) out of a 9 period day (22%). Using both of these factors and still maintaining 85% utilization results in the need for 4 Science Classroom/Labs to accommodate SST's Science curriculum.

#### Special Education

Based upon the District's Educational Program, their philosophy of inclusion, and the lack of substantially separate Special Education classrooms, the proposed space in the Special Education



category is 300 sf below the MSBA guidelines. The District understands that they must submit a Special Education narrative to the MSBA for review by DESE to elaborate on their methodologies, space needs and adjacencies.

#### Art and Music

South Shore Tech does not offer Art as part of the curriculum and has no band or chorus. Therefore no space is proposed in this category which is below the guidelines by 5,5,050 sf.

#### Vocations & Technology

The proposed space for this category is 1,380 sf less than the MSBA guidelines. The MSBA template includes 2 Technology/Engineering Rooms spaces totaling 2,880sf whereas the District is proposing one space at 1,500 sf.

The balance of this category is based upon the DESE Chapter 70 guidelines for space per student in each of SST's 14 CTE programs. If we modify the template to align with these Ch. 74 guidelines, the proposed space in this category equals the guidelines for the proposed number of students in each program.

The District understands that the enrollments and space allocations for these CTE programs must be reviewed by DESE.

#### Health & Physical Education

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 18,042 sf.

#### Media Center

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 3,650 sf

#### Auditorium / Drama

The District's proposed total space in this category is 1,475 square feet less than the MSBA guidelines. As discussed in the District's Educational Program, the desired seating capacity is one half of the total enrollment (325 seats) versus the MSBA maximum of 2/3 (433) of the total



enrollment. This accounts for the difference in this category.

#### Dining & Food Service

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 6,492 sf.

#### Medical

The District's proposed total space of 810 is 100 sf above the MSBA guidelines. This is for the District's inclusion of a Mothers Room for nursing mothers.

#### Administration & Guidance

The District's proposed total space in this category of 5,511 exceeds the MSBA guidelines by 1,929 square feet. This is primarily due to the nature of a regional vocational technical high school that requires both academic and vocational administrators, and additional counselors and student support services to deal with the unique issues of career counseling, outplacement, and internships.

#### Custodial & Maintenance

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 2,109 sf.

#### Other

The District's proposed total space in this category the exceeds the MSBA guidelines by 1,495 square feet. Since this is the District's only facility, SST houses the District administration, including the Superintendent's offices, the Business Manger's offices, and other central office functions. The MSBA Guidelines for high schools do not account for these spaces.

#### Total Net Area

The District's proposed total net area of 135,655 is less than the MSBA guideline by 1,691 square feet.

#### Total Gross Floor Area

The proposed grossing factor in the MSBA template is Not Applicable to this school building type.













## Narrative of Variances to Initial Space Summary Enrollment: 750 Student Option

The Design Team created three separate Space Summary forms for this Feasibility Study; one for each of the potential enrollment targets as called for in the District's Enrollment Certificate: 805 students, 975 students, and one in-between 805 and 975, which the District identified as 900 students.

This narrative of variances between the District's Initial Space Summary and the MSBA Guidelines is for the **750 student option**.

### Variances between Proposed Educational Spaces and MSBA Guidelines

Using the MSBA Space Summary template for Vocational high Schools, we note the following variances between the District's proposed educational spaces and the MSBA guidelines.

#### Core Academic Spaces

The proposed total space in this category exceeds the MSBA guidelines by 4,530 square feet. This is due to the District's calculation that 15 (versus 13) General Classrooms are required to adequately house their proposed course offerings at their typical class size. South Shore Tech's (SST) average class size for academic courses has historically been 20 students. This relates to the nature of a vocational school and their cohort groups. Substituting 20 students in the MSBA's formula in lieu of 23 results in 15 classrooms being needed at 85% utilization. To partially compensate for the greater number of rooms, SST proposes to target a smaller classroom size of 850 square feet versus the guideline's 900 sf.

The Teacher Planning space is proposed to be proportional to the number of classrooms (100 sf per classroom) in alignment with the MSBA guidelines.

The District's class size and scheduling for Science classes also results in a variance between the proposed 6 Labs versus the guidelines 4 Labs. The template's formula is again based upon 23 students per class, while SST's average class size is 20 students per class. Also, the template's formula is based on 5 periods of science out of an available total of 30 periods (17%), while SST's schedule for Science is one double block (2 periods) out of a 9 period day (22%). Using both of these factors and still maintaining 85% utilization results in the need for 6 Science Classroom/Labs to accommodate SST's Science curriculum.

#### Special Education

Based upon the District's Educational Program, their philosophy of inclusion, and the lack of substantially separate Special Education classrooms, the proposed space in the Special Education



category is 180 sf below the MSBA guidelines. The District understands that they must submit a Special Education narrative to the MSBA for review by DESE to elaborate on their methodologies, space needs and adjacencies.

#### Art and Music

South Shore Tech does not offer Art as part of the curriculum and has no band or chorus. Therefore no space is proposed in this category which is below the guidelines by 5,050 sf.

#### Vocations & Technology

The proposed space for this category is 1,380 sf less than the MSBA guidelines. The MSBA template includes 2 Technology/Engineering Rooms spaces totaling 2,880sf whereas the District is proposing one space at 1,500 sf.

The balance of this category is based upon the DESE Chapter 70 guidelines for space per student in each of SST's 14 CTE programs. If we modify the template to align with these Ch. 74 guidelines, the proposed space in this category equals the guidelines for the proposed number of students in each program.

The District understands that the enrollments and space allocations for these CTE programs must be reviewed by DESE.

#### Health & Physical Education

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 18,342 sf.

#### Media Center

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 3,650 sf

#### Auditorium / Drama

The District's proposed total space in this category is 1,650 square feet less than the MSBA guidelines. As discussed in the District's Educational Program, the desired seating capacity is one half of the total enrollment (402 seats) versus the MSBA maximum of 2/3 (537) of the total



enrollment. This accounts for the difference in this category.

#### Dining & Food Service

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 7,176 sf.

#### Medical

The District's proposed total space of 810 is 100 sf above the MSBA guidelines. This is for the District's inclusion of a Mothers Room for nursing mothers.

#### Administration & Guidance

The District's proposed total space in this category of 5,629 exceeds the MSBA guidelines by 1,903 square feet. This is primarily due to the nature of a regional vocational technical high school that requires both academic and vocational administrators, and additional counselors and student support services to deal with the unique issues of career counseling, outplacement, and internships.

#### Custodial & Maintenance

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 2,188 sf.

#### Other

The District's proposed total space in this category exceeds the MSBA guidelines by 1,495 square feet. Since this is the District's only facility, SST houses the District administration, including the Superintendent's offices, the Business Manager's offices, and other central office functions. The MSBA Guidelines for high schools do not account for these spaces.

#### Total Net Area

The District's proposed total net area of 152,361 is less than the MSBA guideline by 233p square feet.

#### Total Gross Floor Area

The proposed grossing factor in the MSBA template is Not Applicable to this school building type.













## Narrative of Variances to Initial Space Summary Enrollment: 805 Student Option

The Design Team created three separate Space Summary forms for this Feasibility Study; one for each of the potential enrollment targets as called for in the District's Enrollment Certificate: 805 students, 975 students, and one in-between 805 and 975, which the District identified as 900 students.

This narrative of variances between the District's Initial Space Summary and the MSBA Guidelines is for the **805 student option**.

### Variances between Proposed Educational Spaces and MSBA Guidelines

Using the MSBA Space Summary template for Vocational high Schools, we note the following variances between the District's proposed educational spaces and the MSBA guidelines.

#### Core Academic Spaces

The proposed total space in this category exceeds the MSBA guidelines by 4,480 square feet. This is due to the District's calculation that 16 (versus 14) General Classrooms are required to adequately house their proposed course offerings at their typical class size. South Shore Tech's (SST) average class size for academic courses has historically been 20 students. This relates to the nature of a vocational school and their cohort groups. Substituting 20 students in the MSBA's formula in lieu of 23 results in 16 classrooms being needed at 85% utilization. To partially compensate for the greater number of rooms, SST proposes to target a smaller classroom size of 850 square feet versus the guideline's 900 sf.

The Teacher Planning space is proposed to be proportional to the number of classrooms (100 sf per classroom) in alignment with the MSBA guidelines.

The District's class size and scheduling for Science classes also results in a variance between the proposed 6 Labs versus the guidelines 4 Labs. The template's formula is again based upon 23 students per class, while SST's average class size is 20 students per class. Also, the template's formula is based on 5 periods of science out of an available total of 30 periods (17%), while SST's schedule for Science is one double block (2 periods) out of a 9 period day (22%). Using both of these factors and still maintaining 85% utilization results in the need for 6 Science Classroom/Labs to accommodate SST's Science curriculum.

#### Special Education

Based upon the District's Educational Program, their philosophy of inclusion, and the lack of substantially separate Special Education classrooms, the proposed space in the Special Education



category is 1,190 sf below the MSBA guidelines. The District understands that they must submit a Special Education narrative to the MSBA for review by DESE to elaborate on their methodologies, space needs and adjacencies.

#### Art and Music

South Shore Tech does not offer Art as part of the curriculum and has no band or chorus. Therefore no space is proposed in this category which is below the guidelines by 5,125 sf.

#### Vocations & Technology

The proposed space for this category is 1,380 sf less than the MSBA guidelines. The MSBA template includes 2 Technology/Engineering Rooms spaces totaling 2,880sf whereas the District is proposing one space at 1,500 sf.

The balance of this category is based upon the DESE Chapter 70 guidelines for space per student in each of SST's 14 CTE programs. If we modify the template to align with these Ch. 74 guidelines, the proposed space in this category equals the guidelines for the proposed number of students in each program.

The District understands that the enrollments and space allocations for these CTE programs must be reviewed by DESE.

#### Health & Physical Education

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 18,499 sf.

#### Media Center

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 3,650 sf

#### Auditorium / Drama

The District's proposed total space in this category is 1,742 square feet less than the MSBA guidelines. As discussed in the District's Educational Program, the desired seating capacity is one half of the total enrollment (402 seats) versus the MSBA maximum of 2/3 (537) of the total



enrollment. This accounts for the difference in this category.

#### Dining & Food Service

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 7,532 sf.

#### Medical

The District's proposed total space of 1,010 is 100 sf above the MSBA guidelines. This is for the District's inclusion of a Mothers Room for nursing mothers.

#### Administration & Guidance

The District's proposed total space in this category of 5,841 exceeds the MSBA guidelines by 1,889 square feet. This is primarily due to the nature of a regional vocational technical high school that requires both academic and vocational administrators, and additional counselors and student support services to deal with the unique issues of career counseling, outplacement, and internships.

#### Custodial & Maintenance

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 2,229 sf.

#### Other

The District's proposed total space in this category the exceeds the MSBA guidelines by 1,495 square feet. Since this is the District's only facility, SST houses the District administration, including the Superintendent's offices, the Business Manger's offices, and other central office functions. The MSBA Guidelines for high schools do not account for these spaces.

#### Total Net Area

The District's proposed total net area of 159,367 is less than the MSBA guideline by 1,473 square feet.

#### Total Gross Floor Area

The proposed grossing factor in the MSBA template is Not Applicable to this school building type.













## Narrative of Variances to Initial Space Summary Enrollment: 900 Student Option

The Design Team created three separate Space Summary forms for this Feasibility Study; one for each of the potential enrollment targets as called for in the District's Enrollment Certificate: 805 students, 975 students, and one in-between 805 and 975, which the District identified as 900 students.

This narrative of variances between the District's Initial Space Summary and the MSBA Guidelines is for the **900 student option**.

### Variances between Proposed Educational Spaces and MSBA Guidelines

Using the MSBA Space Summary template for Vocational high Schools, we note the following variances between the District's proposed educational spaces and the MSBA guidelines.

#### Core Academic Spaces

The proposed total space in this category exceeds the MSBA guidelines by 4,380 square feet. This is due to the District's calculation that 18 (versus 16) General Classrooms are required to adequately house their proposed course offerings at their typical class size. South Shore Tech's (SST) average class size for academic courses has historically been 20 students. This relates to the nature of a vocational school and their cohort groups. Substituting 20 students in the MSBA's formula in lieu of 23 results in 18 classrooms being needed at 85% utilization. To partially compensate for the greater number of rooms, SST proposes to target a smaller classroom size of 850 square feet versus the guideline's 900 sf.

The Teacher Planning space is proposed to be proportional to the number of classrooms (100 sf per classroom) in alignment with the MSBA guidelines.

The District's class size and scheduling for Science classes also results in a variance between the proposed 6 Labs versus the guidelines 4 Labs. The template's formula is again based upon 23 students per class, while SST's average class size is 20 students per class. Also, the template's formula is based on 5 periods of science out of an available total of 30 periods (17%), while SST's schedule for Science is one double block (2 periods) out of a 9 period day (22%). Using both of these factors and still maintaining 85% utilization results in the need for 6 Science Classroom/Labs to accommodate SST's Science curriculum.

#### Special Education

Based upon the District's Educational Program, their philosophy of inclusion, and the lack of substantially separate Special Education classrooms, the proposed space in the Special Education



category is 870 sf below the MSBA guidelines. The District understands that they must submit a Special Education narrative to the MSBA for review by DESE to elaborate on their methodologies, space needs and adjacencies.

#### Art and Music

South Shore Tech does not offer Art as part of the curriculum and has no band or chorus. Therefore no space is proposed in this category which is below the guidelines by 5,125 sf.

#### Vocations & Technology

The proposed space for this category is 2,820 sf less than the MSBA guidelines. The MSBA template includes 3 Technology/Engineering Rooms spaces totaling 4,320sf whereas the District is proposing one space at 1,500 sf.

The balance of this category is based upon the DESE Chapter 70 guidelines for space per student in each of SST's 14 CTE programs. If we modify the template to align with these Ch. 74 guidelines, the proposed space in this category equals the guidelines for the proposed number of students in each program.

The District understands that the enrollments and space allocations for these CTE programs must be reviewed by DESE.

#### Health & Physical Education

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 18,770 sf.

#### Media Center

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 3,650 sf

#### Auditorium / Drama

The District's proposed total space in this category is 1,900 square feet less than the MSBA guidelines. As discussed in the District's Educational Program, the desired seating capacity is one half of the total enrollment (450 seats) versus the MSBA maximum of 2/3 (594) of the total



enrollment. This accounts for the difference in this category.

#### Dining & Food Service

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 8,150 sf.

#### Medical

The District's proposed total space of 1,010 is 100 sf above the MSBA guidelines. This is for the District's inclusion of a Mothers Room for nursing mothers.

#### Administration & Guidance

The District's proposed total space in this category of 5,948 exceeds the MSBA guidelines by 1,865 square feet. This is primarily due to the nature of a regional vocational technical high school that requires both academic and vocational administrators, and additional counselors and student support services to deal with the unique issues of career counseling, outplacement, and internships.

#### Custodial & Maintenance

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 2,300 sf.

#### Other

The District's proposed total space in this category the exceeds the MSBA guidelines by 1,495 square feet. Since this is the District's only facility, the SST houses the District administration, including the Superintendent's offices, the Business Manger's offices, and other central office functions. The MSBA Guidelines for high schools do not account for these spaces.

#### Total Net Area

The District's proposed total net area of 172,128 is less than the MSBA guideline by 2,875 square feet.

#### Total Gross Floor Area

The proposed grossing factor in the MSBA template is Not Applicable to this school building type.







Proposed Space Summary - Regional Vocational Technical High School

DRAFT

975 Enrollment

Date: 9/14/2023 Preliminary Design Program

South Shore Regional Vocational Technical School District <b>SOUTH SHORE TECH</b>		EXISTING CONDITIONS		
ROOM TYPE	ROOM NFA <sup>1</sup>	# OF ROOMS	AREA TOTALS	
[Enter room type here]				0
<b>MEDICAL</b>				<b>403</b>
Medical Suite Toilet	74	1	74	
Nurses' Office / Waiting Room	275	1	275	
Interview Room	54	1	54	
Examination Room / Resting	0	0	0	
Mothers' Room				0
[Enter room type here]				0
<b>ADMINISTRATION &amp; GUIDANCE</b>				<b>3,147</b>
General Office / Waiting Room with Toilet (3 workstations)	88	3	264	
Teachers' Mail and Time Room	0	0	0	
Copy Room	112	1	112	
Records Room	40	2	80	
Principal's Office with Conference Area	149	1	149	
Principal's Secretary / Waiting	424	1	424	
Assistant Principal's Office - AP1 Vocational Director	178	1	178	
Assistant Principal's Office - AP2 Director of Curriculum	248	1	248	
Supervisory /SRO & Spare Office	213	1	213	
Conference Room	296	1	296	
Guidance Office	105	3	315	
Guidance Waiting Room	0	0	0	
Guidance Storeroom	0	0	0	
Career Center	0	0	0	
Records Room	0	0	0	
Teachers' Work Room	0	0	0	
Student Support Center				0
In-School Suspension Room	187	1	187	
Vocational Coordinator Office	96	3	287	
IT Office	394	1	394	
[Enter room type here]				0
<b>CUSTODIAL &amp; MAINTENANCE (within Main Building)</b>				<b>1,222</b>
Custodian's Office	121	1	121	
Custodian's Workshop	0	0	0	
Custodian's Storage	36	5	178	
Recycling Room / Trash	0	0	0	
Receiving and General Supply	202	1	202	
Storeroom	94	3	283	
Network / Telecom Room	219	2	438	
[Enter room type here]				0
<b>OTHER</b>				<b>0</b>
(List rooms separately below)				
Pre-Kindergarten Classroom with Toilet (if applicable)				0
Superintendent's suite (2 people)	0	0	0	
Business Office (4 people)	0	0	0	
[Enter room type here]				0
[Enter room type here]				0
[Enter room type here]				0
Total Building Net Floor Area (NFA)			<b>93,252</b>	
Proposed Student Capacity / Enrollment				

PROPOSED PROGRAM								
EXISTING TO REMAIN / RENOVATED			NEW CONSTRUCTION			TOTAL		
ROOM NFA <sup>1</sup>	# OF ROOMS	AREA TOTALS	ROOM NFA <sup>1</sup>	# OF ROOMS	AREA TOTALS	ROOM NFA <sup>1</sup>	# OF ROOMS	AREA TOTALS
		0			0	0	0	0
<b>0</b>	<b>0</b>	<b>0</b>	<b>1,010</b>	<b>0</b>	<b>1,010</b>	<b>1,010</b>	<b>0</b>	<b>1,010</b>
0	0	0	60	1	60	60	1	60
0	0	0	250	1	250	250	1	250
0	0	0	100	2	200	100	2	200
0	0	0	100	4	400	100	4	400
0	0	0	100	1	100	100	1	100
0	0	0			0	0	0	0
<b>0</b>	<b>0</b>	<b>0</b>	<b>6,032</b>	<b>0</b>	<b>6,032</b>	<b>6,032</b>	<b>0</b>	<b>6,032</b>
0	0	0	488	1	488	488	1	488
0	0	0	100	1	100	100	1	100
0	0	0	200	1	200	200	1	200
0	0	0	200	1	200	200	1	200
0	0	0	250	1	250	250	1	250
0	0	0	125	1	125	125	1	125
0	0	0	150	1	150	150	1	150
0	0	0	150	1	150	150	1	150
0	0	0	120	1	120	120	1	120
0	0	0	450	1	450	450	1	450
0	0	0	150	5	750	150	5	750
0	0	0	100	1	100	100	1	100
0	0	0	100	1	100	100	1	100
0	0	0	900	1	900	900	1	900
0	0	0	147	1	147	147	1	147
0	0	0	488	1	488	488	1	488
0	0	0	400	1	400	400	1	400
0	0	0	200	1	200	200	1	200
0	0	0	315	1	315	315	1	315
0	0	0	400	1	400	400	1	400
0	0	0			0	0	0	0
<b>0</b>	<b>0</b>	<b>0</b>	<b>2,356</b>	<b>0</b>	<b>2,356</b>	<b>2,356</b>	<b>0</b>	<b>2,356</b>
0	0	0	150	1	150	150	1	150
0	0	0	250	1	250	250	1	250
0	0	0	375	1	375	375	1	375
0	0	0	400	1	400	400	1	400
0	0	0	394	1	394	394	1	394
0	0	0	588	1	588	588	1	588
0	0	0	200	1	200	200	1	200
0	0	0			0	0	0	0
<b>0</b>	<b>0</b>	<b>0</b>	<b>1,495</b>	<b>0</b>	<b>1,495</b>	<b>1,495</b>	<b>0</b>	<b>1,495</b>
0	0	0	0	0	0	0	0	0
0	0	0	695	1	695	695	1	695
0	0	0	800	1	800	800	1	800
0	0	0			0	0	0	0
0	0	0			0	0	0	0
0	0	0			0	0	0	0
<b>0</b>	<b>0</b>	<b>0</b>	<b>184,749</b>	<b>0</b>	<b>184,749</b>	<b>184,749</b>	<b>0</b>	<b>184,749</b>

VARIATION TO MSBA GUIDELINES		
ROOM NFA <sup>1</sup>	# OF ROOMS	AREA TOTALS
0	0	0
<b>100</b>	<b>0</b>	<b>0</b>
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
100	1	100
0	0	0
<b>1,846</b>	<b>0</b>	<b>0</b>
0	0	0
0	0	0
0	0	0
0	0	0
-125	0	-125
0	0	0
0	0	0
0	0	0
0	1	150
0	0	0
0	0	0
506	0	506
0	0	0
400	1	400
200	1	200
315	1	315
400	1	400
0	0	0
<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>	<b>0</b>	<b>0</b>
<b>-2,109</b>	<b>0</b>	<b>0</b>
<b>186,858</b>	<b>0</b>	<b>0</b>
<b>975</b>	<b>0</b>	<b>0</b>
<b>51%</b>	<b>3</b>	<b>0</b>
<b>497</b>	<b>0</b>	<b>0</b>

MSBA GUIDELINES (DO NOT MODIFY) (Refer to Educational Facility Planning for additional information)			
ROOM NFA <sup>1</sup>	# OF ROOMS	AREA TOTALS	COMMENTS
<b>910</b>	<b>0</b>	<b>0</b>	Based on total enrollment.
60	1	60	
250	1	250	
100	2	200	
100	4	400	
<b>4,186</b>	<b>0</b>	<b>0</b>	Based on total enrollment.
488	1	488	
100	1	100	
200	1	200	
200	1	200	
375	1	375	
125	1	125	
150	1	150	
150	0	-	
120	1	120	
450	1	450	
150	5	750	
100	1	100	
100	1	100	
394	1	394	
147	1	147	
488	1	488	
<b>2,356</b>	<b>0</b>	<b>0</b>	Based on total enrollment.
150	1	150	
250	1	250	
375	1	375	
400	1	400	
394	1	394	
588	1	588	
200	1	200	
<b>0</b>	<b>0</b>	<b>0</b>	Based on total enrollment.
1,200	0	-	1,100 NSF (minimum size) - 1,300 NSF (maximum size)
<b>186,858</b>	<b>0</b>	<b>0</b>	Total Building Net Floor Area (NFA)
<b>975</b>	<b>0</b>	<b>0</b>	Enter Total Enrollment
<b>51%</b>	<b>3</b>	<b>0</b>	3 Year average percentage of 9th/10th enrollment
<b>497</b>	<b>0</b>	<b>0</b>	Full Time Equivalent Enrollment



## Narrative of Variances to Initial Space Summary Enrollment: 975 Student Option

The Design Team created three separate Space Summary forms for this Feasibility Study; one for each of the potential enrollment targets as called for in the District's Enrollment Certificate: 805 students, 975 students, and one in-between 805 and 975, which the District identified as 900 students.

This narrative of variances between the District's Initial Space Summary and the MSBA Guidelines is for the **975 student option**.

### Variances between Proposed Educational Spaces and MSBA Guidelines

Using the MSBA Space Summary template for Vocational high Schools, we note the following variances between the District's proposed educational spaces and the MSBA guidelines.

#### Core Academic Spaces

The proposed total space in this category exceeds the MSBA guidelines by 5,280 square feet. This is due to the District's calculation that 20 (versus 17) General Classrooms are required to adequately house their proposed course offerings at their typical class size. South Shore Tech's (SST) average class size for academic courses has historically been 20 students. This relates to the nature of a vocational school and their cohort groups. Substituting 20 students in the MSBA's formula in lieu of 23 results in 20 classrooms being needed at 85% utilization. To partially compensate for the greater number of rooms, SST proposes to target a smaller classroom size of 850 square feet versus the guideline's 900 sf.

The Teacher Planning space is proposed to be proportional to the number of classrooms (100 sf per classroom) in alignment with the MSBA guidelines.

The District's class size and scheduling for Science classes also results in a variance between the proposed 7 Labs versus the guidelines 5 Labs. The template's formula is again based upon 23 students per class, while SST's average class size is 20 students per class. Also, the template's formula is based on 5 periods of science out of an available total of 30 periods (17%), while SST's schedule for Science is one double block (2 periods) out of a 9 period day (22%). Using both of these factors and still maintaining 85% utilization results in the need for 7 Science Classroom/Labs to accommodate SST's Science curriculum.

#### Special Education

Based upon the District's Educational Program, their philosophy of inclusion, and the lack of substantially separate Special Education classrooms, the proposed space in the Special Education





category is 860 sf below the MSBA guidelines. The District understands that they must submit a Special Education narrative to the MSBA for review by DESE to elaborate on their methodologies, space needs and adjacencies.

#### Art and Music

South Shore Tech does not offer Art as part of the curriculum and has no band or chorus. Therefore no space is proposed in this category which is below the guidelines by 5,125 sf.

#### Vocations & Technology

The proposed space for this category is 2,820 sf less than the MSBA guidelines. The MSBA template includes 3 Technology/Engineering Rooms spaces totaling 4,320sf whereas the District is proposing one space at 1,500 sf.

The balance of this category is based upon the DESE Chapter 70 guidelines for space per student in each of SST's 14 CTE programs. If we modify the template to align with these Ch. 74 guidelines, the proposed space in this category equals the guidelines for the proposed number of students in each program.

The District understands that the enrollments and space allocations for these CTE programs must be reviewed by DESE.

#### Health & Physical Education

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 18,985 sf.

#### Media Center

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 3,650 sf

#### Auditorium / Drama

The District's proposed total space in this category is 2,025 square feet less than the MSBA guidelines. As discussed in the District's Educational Program, the desired seating capacity is one half of the total enrollment (487 seats) versus the MSBA maximum of 2/3 (643) of the total



enrollment. This accounts for the difference in this category.

#### Dining & Food Service

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 8,638 sf.

#### Medical

The District's proposed total space of 1,010 is 100 sf above the MSBA guidelines. This is for the District's inclusion of a Mothers Room for nursing mothers.

#### Administration & Guidance

The District's proposed total space in this category of 6,032 exceeds the MSBA guidelines by 1,846 square feet. This is primarily due to the nature of a regional vocational technical high school that requires both academic and vocational administrators, and additional counselors and student support services to deal with the unique issues of career counseling, outplacement, and internships.

#### Custodial & Maintenance

There is no variance in this category between the District's proposed total space and the MSBA guidelines of 2,356 sf.

#### Other

The District's proposed total space in this category the exceeds the MSBA guidelines by 1,495 square feet. Since this is the District's only facility, the SST houses houses the District administration, including the Superintendent's offices, the Business Manger's offices, and other central office functions. The MSBA Guidelines for high schools do not account for these spaces.

#### Total Net Area

The District's proposed total net area of 159,367 is less than the MSBA guideline by 1,473 square feet.

#### Total Gross Floor Area

The proposed grossing factor in the MSBA template is Not Applicable to this school building type.







- PROGRAM LEGEND**
- 1.0 Core Academic
  - 4.0 Vocations & Technology
  - 5.0 Health & Physical Education
  - 6.0 Media Center
  - 7.0 Activities/ Drama
  - 8.0 Dining & Food Service
  - 9.0 Medical
  - 10.0 Administration & Guidance
  - 11.0 Custodial & Maintenance
  - 12.0 Other
  - 13.0 Non-Programmed Spaces

**PROGRAM AREA PLANS OF EXISTING FACILITY**  
NOT TO SCALE  
09-20-2023





**Introduction:**

Section 3.1.4 Evaluation Of The Existing Building includes the following, based on the 01/2015 MSBA Module-3 Guidelines and applicable MSBA advisories:

- General Information
- Methods and Assumptions and Limitations of Accuracy
- Evidence That The District Has Legal Title To The Property
- Determination Of Historic Restrictions
- Determination Of Development Restrictions
- Initial Evaluation Of Existing Facility For Building Code Compliance
- Initial Evaluation Of Existing Facility For AAB Compliance
- Evaluation Of Physical Condition Of Building
- Evaluation Of Site And Landscape Conditions
- Determination for Need and Schedule for Soils Exploration and Geotechnical Evaluation
- Phase I Environmental Assessment
- Hazardous Materials Assessment
- Space Analysis Plans
- Recommended For Further Investigation

**General Information:**

- School name: South Shore Vocational Technical High School
- Location: 476 Webster Street Hanover, MA.
- Site area: approximately 46.5 acres
- Building constructed: 1961
- Building area: approximately 134,000 gross square feet
- Building height: not greater than 1-stories
- Occupancy classification per 780 CMR:
- Primary Use:
  - E (Secondary Education)
  - A-2 (Cafeteria and Restaurant)
  - A-3 (Auditorium)
  - A-4 (Gymnasium with Spectator Seating)
- Other Accessory Use (780 CMR 508.2)
  - B (Offices)
- Construction type: II B per 780 CMR presumed
- Grade levels served: 9-12.
- Current enrollment: 969 per 03/09/2021 MSBA Enrollment Letter

**Methods and Assumptions and Limitations of Accuracy**

This existing-conditions assessment is based on several methods used to evaluate evidence of the physical condition of the building systems. Summaries of these evaluations are included in this section of the report (section 3.1.4) and detailed assessments, with photographic documentation, are included in appendices to this report.



On-site observations, beginning in Fall 2017, were made by all consultants. Careful assessment using measuring tools, tape measures and levels for instance, was made when necessary. Careful measurement was especially important to assess Building Code and Architectural Access Board compliance. To record these observation contemporaneous notes and photographs were used and have been included in the appendices to this report. To aid in the evaluation a high resolution photographic virtual building model was produced. 360° photos of most every room were produced also.

Building operations personnel were available, on site and for calls, to share the depth of their knowledge of the building and its history and to identify operational concerns. Discussion of mechanical systems was especially important to assess the condition of these systems.

Limitations to this method primarily include inability to observe possible deficiencies or damage in concealed spaces.

Section 3.1.4.7 summarizes the physical condition of the existing facility.

Appendix A includes detailed evaluations of the existing building by discipline.





### 3.1.4.1 Evidence that the District Has Legal Title to the Property

The District has legal title to the property.

See Property Record Deeds for 476 Webster Street and 436 Webster Street on following pages



Property Address: 436 Webster Street, Hanover, Massachusetts, 02339

\*\*\* Electronic Recording \*\*\*  
Doc#: 00093335  
Bk: 57440 Pg: 99 Page: 1 of 2  
Recorded: 11/21/2022 02:29 PM  
ATTEST: John R. Buckley, Jr. Register  
Plymouth County Registry of Deeds

\*\*\*\*\*  
MASSACHUSETTS EXCISE TAX  
Plymouth District ROD #11 001  
Date: 11/21/2022 02:29 PM  
Ctrl# 161741 30794  
Fee: \$4,195.20 Cons: \$920,000.00  
\*\*\*\*\*

**QUITCLAIM DEED**

We, **ROY P. SCHWEMIN** and **CYNTHIA A. SCHWEMIN**, of 436 Webster Street, Hanover, Plymouth County, Massachusetts, 02339,

for consideration paid, and in full consideration of Nine Hundred Twenty Thousand (\$920,000.00) Dollars and 00/100, do hereby

grant to **SOUTH SHORE REGIONAL VOCATIONAL SCHOOL DISTRICT**, of 476 Webster Street, Hanover, Plymouth County, Massachusetts, 02339,

with **quitclaim covenants**,

That certain parcel of land known as North Hanover, Plymouth County, Massachusetts containing 2.14 acres of land, more or less, being bounded and described as follows:

Beginning at a concrete bound set in the Southerly line of Webster Street, as laid out by the County Commissioners decree #858 and dated February 28, 1933 said point being, 264.53 feet, southwesterly from a county bound being an angle point on said Webster Street, thence running:

**EASTERLY** by land now or formerly of Edith N. Brooks (Way), 260.06 to a drill hole in the stone culvert, thence turning and running:

**SOUTHEASTERLY** by land now or formerly of Edith N. Brooks, 60.48 feet to a stake, thence turning and running:

**SOUTHERLY** by land now or formerly of said Brooks, 198.32 feet to a drill hole in a stone fence, thence turning and running:

**WESTERLY** by a stone wall and land now or formerly of Benjamin W. Ford, by two lines aggregating 524.63 feet to a stake set in the Southerly line of Webster Street, thence turning and running:

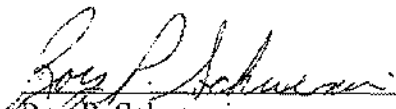
NORTHEASTERLY on the southerly line of Webster Street, 351.24 feet to the point of beginning.

Containing 2.14 acres of land, more or less, as shown on a plan entitled "Plan of Land - Hanover, Mass., dated July 14, 1951, drawn by Lawrence C. House, Abington, Mass." in Plan Bk 8, Pg 533.

The Grantors hereby release any rights of Homestead that they may have under MGL, Ch. 188.

For Grantor's title see Deed dated December 23, 1992, recorded in the Plymouth County Registry of Deeds in Book 11530, Page 273.

Witness our hands and seals on this 21st day of November, 2022.


  
\_\_\_\_\_  
Roy P. Schwemin

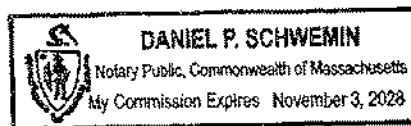
  
\_\_\_\_\_  
Cynthia A. Schwemin

**COMMONWEALTH OF MASSACHUSETTS**

PLYMOUTH, ss.

On this 21st day of November, 2022, before me, the undersigned notary public, then personally appeared, the above-named, *Roy P. Schwemin and Cynthia A. Schwemin*, and proved to me through satisfactory evidence of identification, which was their Driver's Licenses, to be the persons, whose names are signed on the preceding or attached document, and acknowledged to me that they signed it voluntarily for its stated purpose.

  
\_\_\_\_\_  
Daniel P. Schwemin, Esquire - Notary Public  
My commission expires: November 3, 2028



In the event the ownership of the mortgaged premises, or any part thereof, becomes vested in a person other than the Mortgagor, the Mortgagee may, without notice to the Mortgagor, deal with such successor or successors in interest with reference to the mortgage and the debt hereby secured, in the same manner as with the Mortgagor, without in any way vitiating or discharging the Mortgagor's liability hereunder or upon the debt hereby secured. No sale of the premises hereby mortgaged and no forbearance on the part of the Mortgagee and no extension of the time for the payment of the debt hereby secured given by the Mortgagee shall operate to release, discharge, modify, change or affect the original liability of the Mortgagor herein, either in whole or part.

Wherever the words Mortgagor and Mortgagee are used herein they shall include their several heirs, executors, administrators, successors, grantees and assigns subject to the limitations of law and of this instrument, and if the context requires, the words Mortgagor and Mortgagee and the pronouns referring to them shall be construed as plural, neuter or feminine.

In case this loan is paid in full within one year from the date hereof, the Bank reserves the right to make an anticipatory charge as provided in the by-laws of said Bank.

WITNESS OUR hands and seal this 29th day of January 1962

Richard G. Puffer  
Ruth L. Puffer

The Commonwealth of Massachusetts

Norfolk ss. January 29, 1962

Then personally appeared the above-named Richard G. Puffer and Ruth L. Puffer

and acknowledged the foregoing instrument to be their free acts and deed before me.

Joseph M. Leahy  
Notary Public -

My commission expires

Nov. 27, 1962

Rec'd Jan. 31, 1962 at 1:50 P.M. & recorded.

ROCKLAND TRUST COMPANY

TRUSTEE of GUARDIAN under the will of JENNIE M. FORD

by power conferred by said will

and every other power, for Twenty-Five Hundred (\$2,500.00) and no/100 Dollars paid, grant to SOUTH SHORE REGIONAL SCHOOL DISTRICT that portion of

the land in Hanover, Plymouth County, Massachusetts, the record title to which was vested in Jennie M. Ford at the time of her death, which is more particularly described in an instrument of taking of land of the estate of Benjamin W. Ford, made by the grantee and recorded with Plymouth Deeds Book 2833 Page 5.

Meaning and intending to convey and hereby conveying all right, title and interest of record which the grantor now has in said land described in said instrument of taking.



2913

276

EXECUTED AS A SEALED INSTRUMENT

this eighteenth day of January 1962



ROCKLAND TRUST COMPANY  
by *Nelson A. Pool*  
SENIOR VICE PRESIDENT

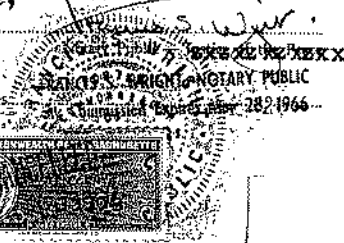
*Shirley A. Peterson*  
Vice President and Trust Officer



The Commonwealth of Massachusetts

Plymouth ss. January 18, 1962

Then personally appeared the above named Shirley A. Peterson, Vice President and Trust Officer of Rockland Trust Company and acknowledged the foregoing instrument to be the free act and deed, ~~of~~ of Rockland Trust Company, Trustee as aforesaid, before me,



VOTE: At a regular meeting of the Trust Committee of Rockland Trust Company held on Thursday January 18, 1962, a quorum was present throughout and I was present throughout and it was VOTED: To authorize Nelson A. Pool, the Senior Vice President and Shirley A. Peterson, a Vice President and Trust Officer, to execute and deliver in the name of the company as it is trustee under the will of Jennie M. Ford, for \$2,500.00 a deed of any and all right title and interest which the company as such trustee has in certain land in Hanover, Plymouth County, Massachusetts which was taken by the SOUTH SHORE REGIONAL SCHOOL DISTRICT, by instrument recorded with Plymouth Deeds Book 2833 Page 5 and they are authorized to describe such real estate in such manner as they by their signatures to said deed may approve.

A true record  
Attest:

*John T. Spence*  
Clerk

Rec'd Jan. 31, 1962 at 2:00 P.M. & recorded.

LS

N0374100

The Commonwealth of Massachusetts

DEPARTMENT OF CORPORATIONS AND TAXATION  
INHERITANCE TAX BUREAU

INHERITANCE TAX REAL ESTATE CERTIFICATE

January 26, 1962

In the estate of Catherine L. Ring

late of East Bridgewater

deceased. This is to certify that an inheritance tax in full has been paid in the amount of \$

### 3.1.4.2 Determination that the Property is Available for Development

The District owns the land and the school facilities known as The South Shore Regional Vocational Technical High School located at 476 Webster Street in Hanover, Massachusetts. The property is available for development of a renovated or new school since there would be no change in the existing use.



### 3.1.4.3 Determination of Historic Restrictions

Massachusetts Historical Commission (MHC) review is not required. To the best of our knowledge, the existing South Shore Vocational Technical High School building is neither inventoried by the MHC nor is it an historic landmark. A Project Notification Form (PNF) will be submitted to the MHC as part of the PSR phase of the project.



#### 3.1.4.4 Determination of Developmental Restrictions

The property is available for development of a renovated or new school since there would be no change in the existing use.





### 3.1.4.5 Initial Evaluation of Existing Facility for Building Code Compliance

See "Appendix A Building Code" for detailed code review



### 3.1.4.6 Initial Evaluation of Existing Facility for AAB Compliance

See "Appendix A Accessibility Audit" for detailed accessibility review





### **Methods and Assumptions and Limitations of Accuracy**

This existing-conditions assessment is based on several methods used to evaluate evidence of the physical condition of the building systems. Summaries of these evaluations is included in this section of the report (section 3.1.4) and detailed assessments, with photographic documentation, is included in Appendix A of this report.

On-site observations were made by all consultants. Careful visual assessment was augmented by field measurements were necessary. Measurement was especially important to assess Building Code and Architectural Access Board compliance. Observation were recorded with contemporaneous notes and photographs which have been included in Appendix A of this report. For reference throughout the process, a high resolution interactive 3-dimensional photographic virtual building model was produced, using Matterport recording methods.

Building operations personnel were available, on site and for calls, to share the depth of their knowledge of the building and its history and to identify operational concerns. Discussions about site conditions and mechanical and electrical systems was especially important to assess the condition of these systems.

Construction drawings from the original building and previous evaluation reports were also used to assist this evaluation.

Other information, for example regarding title and historic registration, was provided by the School.

Limitations to this method primarily include inability to observe possible deficiencies or damage that is concealed from view or otherwise inaccessible.

### **Civil Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- Utility services to the building are all presumed to be part of the original construction (45± years old) and likely approaching the end of their expected lifetime.
- New stormwater management system may be required, per Massachusetts Stormwater regulations, if construction increases total impervious area.
- Providing fire suppression to the building may require upgrading fire protection service line to the building and possibly a larger water main extension throughout the property.
- The capacity and condition of all existing sanitary sewer services will need to be evaluated in conjunction with the project MEP to determine the viability for reuse.
- The design will most likely include a wastewater treatment plant designed and permitted in accordance with the Mass. DEP Groundwater Discharge Permit Program.
- Modifications and/or additions to the stormwater infrastructure may be needed to account for increases in impervious surfaces and/or changes in runoff patterns.

### **Landscape Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- There is insufficient parking for the school's current or future needs.
- ADA compliant pedestrian access is lacking from Webster St. to the main entrance, around the building, and to exterior educational and athletic facilities at several locations.
- Many of the entrances on the side and rear of the school are not ADA compliant and need to have accessible ramps installed.



- Deliveries to the loading dock conflict with parking areas.
- The bleachers at the football field are not ADA compliant and should be upgraded. They are also too small for the typical number of spectators.
- The running track is in poor condition, is too narrow and lacks defined lanes.
- The sports fields are uneven and badly worn.
- Rain events leave standing water on the fields. The drainage system should be upgraded to eliminate this problem.
- The goalposts for football games must be removed when softball games are played. A separate softball field should be provided to eliminate this conflict.

#### **Architectural Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

The current school building was constructed 61 years ago, in 1962. The current facility includes a 1978 addition and a 1992 addition. A greenhouse was added in 2018.

Overall, the building is in good condition, the result of effective maintenance and repairs. However, several major systems show widespread disrepair which could worsen and become unsafe if not remediated.

The building does not conform to several fundamental current code and regulatory requirements including, for example, lack of fire suppression, lack of accessibility accommodations, and poor exterior envelope performance.

#### **Exterior Summary:**

- Replace pre-finished metal soffit panel - maintain existing metal framing and plywood sheathing
- Replace existing roof at the 1992 addition - try to match re-roof material on the original building

#### **Interior Summary:**

- Add sprinklers to original building
- Modify typical classroom entrances to make them accessible
- Provide modifications at toilets for accessibility (original building)
- Replace food service kitchen floor for modern health codes and improved sanitation
- Replace food service kitchen ceiling
- Install linoleum in classroom areas
- Replace VCT flooring in science classrooms and lab with linoleum
- Provide acoustical treatment in existing cafeteria
- Provide acoustical treatment in existing cafeteria
- Replace existing wood floor in gymnasium with new wood athletic flooring
- Provide acoustical treatments in lecture hall
- Remove plaster ceiling in the classrooms and replace with high NRC ACT panels
- Remove plaster ceiling in the corridors and replace with high NRC ACT panels
- Remove existing plaster ceiling within the original building and replace with 2x2 ACT

#### **Furniture Fixtures and Equipment Assessment and Deficiency Survey Summary (FFE)**

**FFE Academic (see Appendix A for detailed analysis):**



**General**

- Casework does not appear to be ADA accessible.
- Provide additional casework for storage.

**Auto Collision Vocational Shop**

- New spray/paint/mixing room needed
- Larger Capacity 16k symmetrical lift

**Auto Technology Vocational Shop**

- Provide larger capacity alignment rack to serve more types of vehicles

**HVAC-R Vocational Shop**

- Metalwork EQ is worn – may need replacement

**Metal Fabrication Vocational Shop**

- Larger plasma cutter recommended
- Workstation crane system needed

**Cosmetology Vocational Shop**

- Larger student lockers needed – enclosed storage for wigs/heads

**Carpentry Vocational Shop**

- Replace Powermatic Bandsaw
- Provide robust conforming dust collection system

**FFE Culinary (see Appendix A for detailed analysis):**

- All equipment, in commercial kitchens must be built in accordance to National Sanitation Foundation (NSF) standards as a requirement of the food codes
- Replace exhaust hoods and fire suppression systems equipped with the latest in life safety features.
- Enclose exposed utilities on the walls and provide a smooth washable surface
- The stainless steel tables should be replaced with a completely stainless steel construction that conforms to NSF standards.

**Accessibility Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):****Structural Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- Structure performing well
- Minor cracks in the interior masonry walls at a few location, no widespread cracking
- Non-structural masonry walls separating from the original masonry walls at some locations in from the 1992 addition
- Minor spalling of concrete at the corners of foundation walls and in the exterior concrete stairs

**Fire Protection Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- provide automatic fire sprinkler system in all unprotected locations



- Flush existing system
- Replace corroded fittings

**Plumbing Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- Replace all ADA non-complying toilet fixtures
- Some rooftop plumbing vents are too close to fresh air intakes
- Floor drains throughout the building do not appear to be equipped with automatic trap primers
- Kitchen gas supply may not be properly interlocked with the kitchen hoods
- Laboratory waste piping includes copper, cast iron, and PVC
- Upgrade laboratory acid neutralization system to a chemical injection type system as required per science curriculum
- Emergency showers are not located on the egress pathway of the lab
- Hot water runouts to emergency safety stations may exceed the maximum length allowed by code

**Mechanical Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- Overall the condition of the mechanical systems are fair to poor
- Provide direct digital control (DDC) HVAC system control system to a with energy management capability, including the removal of all pneumatic equipment and piping and replacement with new electronic valves, wiring, and control panels.
- Remove and replace existing unit ventilators, cabinet heaters and finned tube radiation

**Electrical Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- Overall the condition of the electrical systems are fair to poor
- Provide addressable fire alarm system in lieu of existing zoned system including additional power supplies, electrical branch circuit wiring, fire alarm devices and programming
- Replace the original buildings existing electrical infrastructure including the addition of air conditioning and a new electrical service with branch circuit panelboards and feeders
- Provide LED light fixtures throughout building
- Upgrade lighting controls throughout the building to meet the latest energy code requirements

**Technology and Security Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

**Telecom**

- Provide new conditioned and secure IT Rooms to house network cabling, equipment, UPS, and security equipment.
- Remove existing backbone infrastructure and replace with new fiber cabling.
- Remove existing horizontal cabling and replace with new category 6A.
- Upgrade WIFI coverage with additional WAP devices and locations.

**Security**

- Remove and replace existing video surveillance system with new network based system integrated into new access control system.
- Remove and replace existing access control system with new network based system integrated into new video surveillance system.



**Audiovisual**

- Remove and replace existing paging and clock system with a new IP network based mass communication system with call wall phones and all in one (speaker, digital clock, message board, ADA strobe) network devices.
- Add additional paging speakers to the exterior of the building.





#### 3.1.4.8 Determination for Need and Schedule for Soils Exploration and Geotechnical Evaluation

OTO's environmental site assessment identified no Recognized Environmental Conditions at the South Shore High School. Therefore no additional evaluation of potential spills or releases of oils or hazardous materials are proposed at this time. If significant quantities of soil are to be removed and disposed off Site as part of the final design, we recommend that environmental testing of the soils be conducted to aid in evaluating off-site disposal options and potential costs. We understand that South Shore Technical has performed asbestos testing and has an asbestos insulation management program in place. If it has not already been performed, radon testing within the existing school building should be considered. The results can be used by others to determine the need for a radon mitigation system in the proposed building or building addition.

Pursuant to OTO's Geotech study, we recommend design phase explorations be performed prior to final design. The number and scope of additional explorations will depend upon design phasing and the final location and slab elevation of any new building, as well as the location of proposed parking areas and utilities. Typically, design phase borings should be completed at a spacing of 100 feet or less. A closer spacing of investigations will likely be required in areas with organic soils. Borings/test pits should also be performed along utility lines and in deep cuts to evaluate the depth to the bedrock surface. If bedrock or large boulders are encountered in the design phase borings, coring may be required.



The Phase 1 Environmental Report is included in Appendix C.



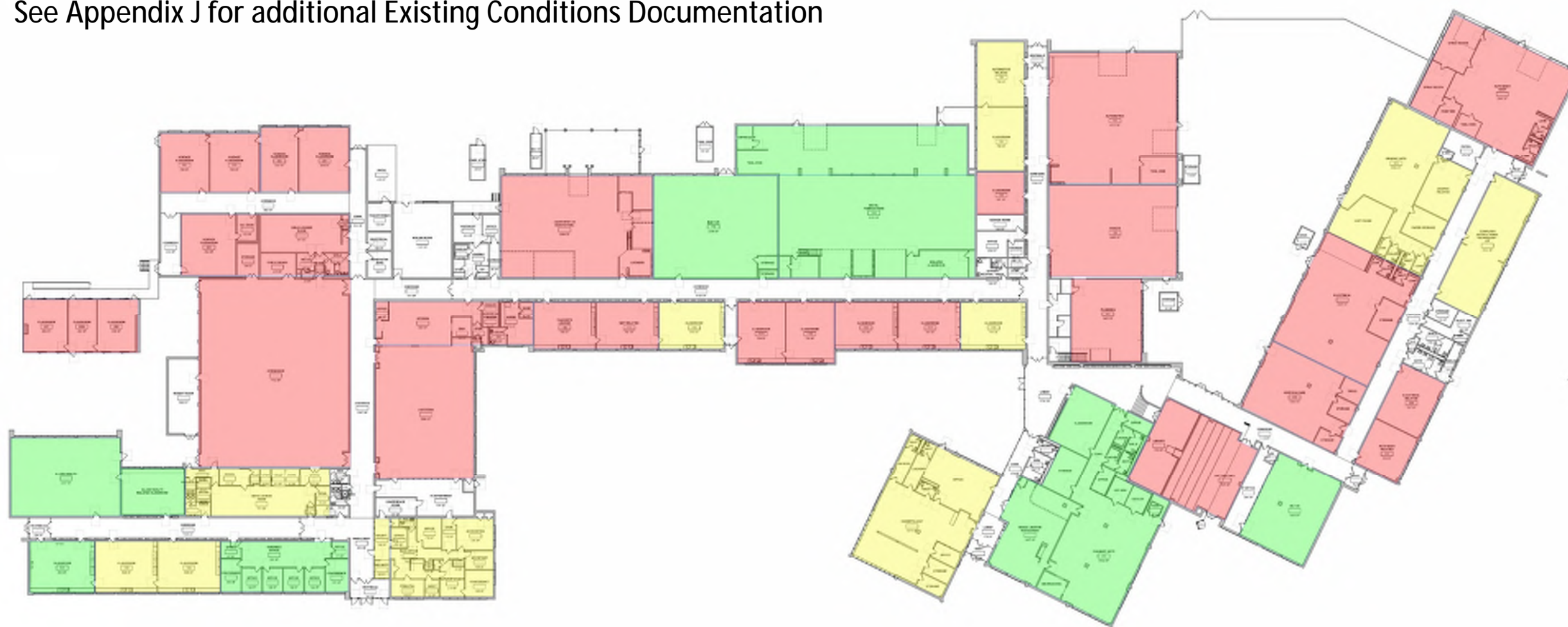
The Hazardous Material Assessment is included in Appendix A.








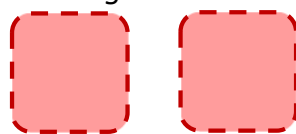
# Existing Conditions

See Appendix J for additional Existing Conditions Documentation



-  Below standard
-  Marginal
-  Meets standard

*Missing:*



*New Ch. 74 Programs*





## **Introduction**

This section includes general descriptions of site development requirements for the following site features:

- Structures and Fences
- Site Access and Circulation
- Parking and Paving
- Code Requirements
- Zoning Setbacks and Limitations
- Easements
- Wetlands and/or Flood Restrictions
- Emergency Vehicle Access
- Safety and Security Requirements
- Utilities
- Athletic Fields and Outdoor Educational Spaces
- Site Orientation and Other Location Considerations and Issues
- Facility Service
- Stormwater Management Systems
- Sanitary Sewage Disposal
- Aerial Site Plan of Existing Conditions

## **Facility Service**

Deliveries and refuse and recycling storage and disposal occurs via loading dock at the service bay on the south-east side of the building. This service bay is accessed by a paved drive off the main access road.







# MEMORANDUM

Date: September 26, 2023

To: Daniel Glazer, AIA, LEED AP  
Drummey Rosane Anderson, Inc.

From: Bradley C. McKenzie/Susan B. Spratt, P.E.

Regarding: South Shore Vocational Technical High School      MEG Project No.: 223-190  
PDP Section 3.1.5 Site Development Requirements - Civil

---

## Overview

### *476 Webster Street – Main Campus*

The main campus of the South Shore Regional Vocational High School is located at 476 Webster Street in Hanover, Massachusetts. The Hanover Assessor's Map shows the parcel as Map 10, Parcel 19, comprising approximately 42.7 acres. The parcel is located within the Residence A Zoning District. It has frontage on Webster Street to the west. It is bordered by developed residential properties and the school property at 436 Webster Street to the north, developed residential properties to the south and east, and Webster Street to the west. This parcel comprises the main school building and ancillary buildings to the east, consisting of a maintenance building, a greenhouse, a barn/locker room, and a concession building. The athletic fields are located east of the school and the ancillary buildings.

### *436 Webster Street – Future Satellite Administrative Offices*

South Shore Regional Vocational School District recently acquired and improved the property at 436 Webster Street for future satellite offices for the administrative staff. The Hanover Assessor's Map shows the parcel as Map 10, Parcel 37, comprising approximately 2.15 acres. It is located within the Residence A Zoning District with frontage on Webster Street to the west. The parcel is bordered by developed residential property to the north, east, and west. The main campus abuts the property to the south. The improvements to the property consisted of renovating the existing residence into administrative offices and constructing a 24-foot-wide bituminous concrete access road connecting the parking lot at the northeast corner of the main campus to a parking area comprised of 24 bituminous concrete parking spaces and a subsurface stormwater management system behind the existing structure. In addition, seven (7) crushed stone parking spaces were constructed along the existing driveway to the barn.

## Site Access and Circulation

### *476 Webster Street – Main Campus*

Access to the main campus is provided via two (2) unsignalized one-way bituminous concrete access driveways intersecting with Webster Street along the frontage at the property's western boundary. The entrance to the main campus is marked as two (2) lanes and is approximately 40 feet wide at its southerly intersection with Webster Street. The bituminous concrete access roads from the entrance are over 24 feet wide and continue around the building, providing access to the entire school, parking areas, and the athletic fields. The exit from the main campus is marked as one lane and is approximately 50 feet wide at its Webster Street intersection.

Upon a preliminary review, the driveway widths greater than 24 feet for 2-way traffic and greater than 20 feet for one-way traffic are adequate for the property's current use (Section 9.0 of the Town of Hanover Zoning Bylaw).

#### *436 Webster Street – Future Satellite Administrative Offices*

Access to the future satellite administrative offices is through an approximate 10-12 ft. wide driveway intersecting with Webster Street to the west. A 24-foot-wide bituminous concrete access road provides access from the parking area behind the existing structure to the existing parking lot at the northeast corner of the main campus at 476 Webster Street,

#### *Recommendations*

An expanded existing conditions survey on Webster Street is needed to review sight distances, slope, surface drainage, and the feasibility of possible driveway relocations to determine if the existing site access at Webster Street is sufficient for both properties. In addition, the driveway entrance and driveway for 436 Webster Street should be widened to a minimum of 20 feet for one-way traffic for future use.

#### **Zoning Setbacks and Limitations**

The South Shore Vocational Technical High School parcel at 476 Webster Street and the future satellite administration building parcel at 436 Webster Street are located within the Town of Hanover Residence A Zoning District as shown on the Zoning Maps.

Per Section 7.0 of the Zoning Bylaw:

Table of Dimensional Requirements Table Based on Zoning District: Residence A	
Requirements	Required/Allowed
Front Yard Setback	50 F.T.
Side Yard Setback	20 F.T.
Rear Yard Setback	40 F.T.
Minimum Frontage	150 FT.
Minimum Lot Area	30,000 SF.
Maximum Building Height	35 F.T.
Max. Number of Stories	3
Max. Building Coverage	N/A
Minimum Open Space	70%
Maximum Lot Coverage	30%

Based on our preliminary review of the dimensional requirements for the Residence A Zoning District, one would need to be mindful of encroaching on the established minimum front and side setbacks if an addition to the school building at 476 Webster Street is contemplated. It is unlikely that there would be any setback issues to the rear due to the presence of the wetland resources, which would limit further development. Otherwise, no other setbacks and/or coverage requirements will likely be impacted.

**Easements:**

MEG is unaware of easements (i.e., utility, access, etc.) running through the 476 or 436 Webster Street properties. Additional utility easements are possible as the site receives gas and Town water and sanitary services. The preparation of an existing conditions survey and plan and title examination is recommended to confirm the presence of any on-site easements.

**Wetlands and/or Floodplain Restrictions:****Wetland Resource Areas***476 Webster Street – Main Campus*

The site contains bordering vegetated wetlands (BVW) extending beyond the developed portion of the school property to the north, east, and south. There is also an inland bank resource associated with an unnamed intermittent stream that flows seasonally in a southerly direction from the BVW complex at the abutting 436 Webster Street parcel to a 30-inch culvert which conveys flows southerly across the site under the athletic fields and discharges into the BVW located to the south of the athletic fields.

The boundaries of most of the resource areas were approved under an Order of Resource Area Delineation issued by the Hanover Conservation Commission (Commission) on April 1, 2019. This permit has elapsed, and the wetland resource areas are in the process of being re-delineated by a wetland botanist and an Abbreviated Notice of Resource Area Delineation (ANRAD) Application will be filed with the Commission for re-approval of the boundaries of these resources in the near future.

*436 Webster Street – Future Satellite Administrative Offices*

The property also has BVW and an inland bank from the same unnamed intermittent stream located to the south of the developed portion of the property. The limit of bordering vegetated wetlands (BVW) was delineated by Environmental Consulting & Restoration, LLC, on February 17, 2022, and approved under an Order of Conditions issued by the Hanover Conservation Commission on September 15, 2022.

Both properties are located within Zone X, as shown on the current FEMA Flood Insurance Rate Map Panel No. 25023C0113K, effective July 6, 2021. No other adjacent parcels are located within FEMA Flood Zones.

*Recommendations*

Wetlands resource areas are protected by the Massachusetts Wetlands Protection Act (MGL Ch. 131 S. 40), Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00), and the Hanover Wetlands Protection Bylaw and Wetlands Protection Regulations. The Bylaw Regulations are more restrictive than the Wetlands Protection Act Regulations as they impose a 35-ft. no-disturb buffer. It is presumed any new construction will encroach on resource areas or their associated buffer zones due to their close proximity to existing developed areas and that an Order of Conditions permit approving the project will be required from the Commission.

**Emergency Vehicle Access***476 Webster Street – Main Campus*

Access to the main campus is provided via two (2) unsignalized one-way bituminous concrete access driveways intersecting with Webster Street along the frontage at the property's western boundary. The entrance to the main campus is marked as two (2) lanes and is approximately 40

feet wide at its southerly intersection with Webster Street. The bituminous concrete access roads from the entrance are over 24 feet wide and continue around the building, providing access to the entire school, parking areas, and the athletic fields. The exit from the main campus is marked as one lane and is approximately 50 feet wide at its Webster Street intersection.

The athletic fields are located at the school building's rear (easterly side). While there is no dedicated vehicle access directly to the fields, existing access driveways and parking areas are close to the fields that can accommodate emergency vehicle access.

There appears to be adequate circulation for emergency access to all sides of the existing school building. Upon a preliminary review, the driveway widths greater than 24 feet for 2-way traffic and greater than 20 feet for one-way traffic, which meets the NFPA code for fire truck access (NFPA 1 Section 18.2).

#### *436 Webster Street – Future Satellite Administrative Offices*

Access to the future satellite administrative offices is through an approximate 10-12 feet wide driveway intersecting with Webster Street to the west. A 24-foot-wide bituminous concrete access road provides access from the existing parking lot at the northeast corner of the main campus to the parking area behind the existing structure.

Upon a preliminary review, the 24-foot 2-way traffic access road from the main campus to the parking area behind the existing structure meets the NFPA code for fire truck access (NFPA 1 Section 18.2). However, the existing access driveway, approximately 10-12 feet wide off Webster Street, does not meet the NFPA code for fire truck access.

#### *Recommendations*

The existing access driveway for 436 Webster Street should be widened to a minimum of 20 feet to meet the NFPA code for truck access.

#### **Utilities:**

##### **Water Service**

#### *476 Webster Street – Main Campus*

According to record documents (1986 and 1992 construction drawings and Town of Hanover Water Dept.) and previous field surveys conducted by MEG, the main campus building built in 1962 is serviced by a 6-inch domestic water service that enters the front of the building. This service is connected to a 12-inch water main located within the Webster Street layout. The main portion of the building constructed in 1962 is not sprinkled, so there is no separate fire protection line. A separate 8-inch ductile iron water service installed for the addition constructed in 1992 connects to the same water main and extends to the south and east sides of the building, where it terminates at a hydrant. A 6-inch ductile iron fire service and 4-inch ductile iron domestic service branch off this service and enter the south side of the building. A water sampling station was also installed off the 8-inch service near Webster Street as part of the 1992 improvements. The maintenance, greenhouse, barn/locker room, and concession buildings located to the main school building's rear (east side) are serviced by individual 1 and 1 ½ inch P.E. water services extending from the rear of the main school building. Record drawings and conversations with the maintenance staff indicate that these services were installed in 2015 and 2018 when the buildings were constructed.

Five (5) existing fire hydrants are also located throughout the site (See Figure 1).

### *436 Webster Street – Future Satellite Administrative Offices*

Record documents indicate that the future satellite administration building is serviced by a 1-inch copper water service that connects to the 12-inch water main located within the Webster Street layout.

### *Recommendations*

Any future expansion/renovation of the school building at 476 Webster Street will require an upgrade to provide a fire protection service line to the main building for a sprinkler system, with the potential for a larger water main extension throughout the property. The capacity and condition of all existing domestic and fire services will need to be evaluated by the project MEP to determine the viability for reuse. A hydrant flow test is recommended before design to determine the available volume and pressure of the existing services.

## **Sanitary Sewage**

### *476 Webster Street – Main Campus*

According to record documents (1986 and 1992 construction drawings and Town of Hanover Board of Health) and previous field surveys conducted by MEG, the existing main campus building is serviced by a Title 5 (Mass. State Environmental Code 310 CMR 15.00) subsurface sanitary sewage disposal system (septic system) located in the front (westerly side) of the school building. The system is comprised of sanitary sewer services, septic tanks, grease traps, pump chambers, and three (3) soil absorption fields (SAS).

Per record documents, two (2) 6-inch gravity sewer services exit the rear (east side) of the main school building built in 1962 and convey flows to a pump chamber located within the parking area east of the building. In 2023, one of the six-inch gravity sewer services collapsed, and a new service was installed outside the building and within the parking lot, conveying flows to the pump chamber. This chamber pump flows through a 4-inch ductile iron force main around the east and south sides of the building and discharges into a pump chamber located at the building's front (west side). Wastewater is then pumped through three (3) 4-inch force mains to the three (3) soil absorption systems (SAS) located at the western portion of the site near Webster Street. The pumping chamber, grease traps, septic tanks, and force mains were installed in 1992. Records indicate that the soil absorption systems at 476 Webster Street were constructed in 1986. Wastewater from the maintenance building, barn/locker room, and concession building located to the rear (east side) of the main school building flows through various pipes to the pump chamber within the parking area east of the building, where it is pumped through the same 4-inch force main to the pump chamber on the east side of the building and eventually to the SAS. The services associated with these buildings were constructed between 2015 and the present.

The 1992 plans indicate a gravity sewer (size unknown) conveys flows from the auto body shop section of the building to a sealed 500-gallon tank.

Record documents indicate that an external 1,500-gallon grease trap is located outside the west side of the school building that accepts food preparation flow from a 6-inch sewer that flows from the kitchen in the restaurant. The sewer then conveys flow from the grease trap to a 3,000 septic tank and then flows by gravity through an 8-inch PVC pipe to the pump chamber. These structures and piping were also constructed in 1992.

Record documents indicate that a holding tank, also installed in 1992, is present in the front of the building to accept industrial waste from the cosmetology lab of the building.

A 2,500-gallon fiberglass tight tank accepts flows from the portion of the maintenance building that was constructed in 2015.

Conversations with maintenance staff indicate that the septic tanks at 476 Webster Street have been regularly maintained and pumped twice per year.

#### *436 Webster Street – Future Satellite Administrative Offices*

The existing building is served by a Title 5 septic system consisting of a sanitary sewer pipe that exits at the front, a septic tank, a pump chamber, and a soil absorption system at the property's southeast corner. Records indicate that this system was constructed in 2005.

#### *Recommendations*

Records indicate that the soil absorption systems at 476 Webster Street were constructed in 1986 and should be nearing the end of its useful life. The existing septic system at 476 Webster Street is undersized based on information provided by the school on the number of current and future students and staff. The capacity and condition of all existing sanitary sewer services will need to be evaluated in conjunction with the project MEP to determine the viability for reuse. The videotaping of the sanitary sewer piping is also recommended to determine the structural integrity of the pipes.

For all conditions, the design will most likely incorporate a wastewater treatment plant designed and permitted in accordance with the Mass. DEP Groundwater Discharge Permit Program (314 CMR 5.00) as the design flow will exceed the 10,000 gallons per day threshold for a Title 5 septic system (310 CMR 15.00).

### **Stormwater Management**

#### *476 Webster Street – Main Campus*

The stormwater management system information was compiled from record documents (2015 and 1992 construction drawings) and previous field surveys and as-built plans prepared by MEG. An existing on-site stormwater infrastructure captures overland stormwater runoff from impervious and grassed areas on the school property. Per record documents and previous surveys conducted by MEG, storm drainage from impervious and grassed surfaces (bituminous concrete access roadways, parking areas, and landscaped areas) sheet flows to a series of catch basins located throughout the property (See Figure 2). A closed drainage system located within parking areas at the front (west) and side (north) collects runoff conveyed through pipes and eventually discharges to the bordering vegetated wetland to the school's north at a concrete headwall. A 30-inch culvert flows from the concrete headwall southerly across the site under the athletic fields and discharges into the BVW located south of the athletic fields (See Figure 3 for the headwall at the 30-inch drain inlet). A closed drainage system to the rear (east) and side (south) of the building accepts runoff and conveys it to a stormwater detention basin located southeast of the building (See Figure 4). This portion of the system, as well as the basin, was constructed as part of the 1992 addition project. There appear to be numerous roof drains that connect to drainage structures throughout the closed drainage system on site (See Figure 5).

A drainage system consisting of catch basins, closed drainage piping, and a subsurface infiltration system was installed as part of the construction of the maintenance building in 2015. This system connects to a closed drainage system that extends northerly to the headwall at the 30-inch culvert.



A separate closed drainage system with inlet structures was constructed in connection with the 2020 baseball field renovation project. These structures were installed in the eastern portion of the field to alleviate seasonal flooding caused by runoff and high groundwater conditions. A 6-inch PVC drainpipe connects these structures by gravity to the catch basin located to the northwest of the field that drains to the 30-inch culvert that conveys flows under the fields.

#### *436 Webster Street – Future Satellite Administrative Offices*

As part of the improvements to the property, a drainage system complying with the Massachusetts DEP Stormwater Policy Regulations (2008) standards was designed and installed in 2023 to capture and treat stormwater runoff from impervious and grass areas from the parking lot and access road behind the existing structure. The drainage system consists of deep-sump catch basins with hooded outlets, proprietary pre-treatment structures, a subsurface infiltration on the property, and a detention system at 476 Webster Street.

Stormwater runoff from the subsurface infiltration system discharges to a 12-inch flared end section, eventually entering the bordering vegetated wetlands south of the property. Runoff from the subsurface detention system located at 476 Webster Street discharges into the closed drainage system within the parking area on the north side of the main campus building, eventually entering the bordering vegetated wetland to the school's north at a concrete headwall (See Figure 3).

#### *Recommendations*

As part of any renovation and/or program expansion to the site, modifications and/or additions to the stormwater infrastructure may be needed to account for increases in impervious surfaces and/or changes in runoff patterns. Any upgrades to the stormwater management systems at 476 Webster Street will be required to comply with the Massachusetts DEP Stormwater Policy Regulations (2008) standards. We recommend conducting a complete investigation of these drain pipes and appurtenances in collaboration with the project MEP as part of any base repair, renovation, or expansion project that should include cleaning and videotaping the on-site conveyance system to determine the structural integrity of the drain pipes.

### **Natural Gas Service**

#### *476 Webster Street – Main Campus*

According to record documents (Eversource and 1985 and 1992 construction drawings) and previous surveys conducted by MEG, the original school building built in 1962 is serviced by two (2) 2-inch gas services in the front (west side) of the building that connects to an existing 6-inch main located within the Webster Street layout. The maintenance and greenhouse buildings are fed by gas lines from the rear (east side) of the main school building.

#### *436 Webster Street – Future Satellite Administrative Offices*

The ½-inch P.E. gas service enters the front of the building and connects to the 6-inch gas main within the Webster Street layout.

#### *Recommendations*

The maintenance staff for the school indicates that there are presently no issues with the gas service at either property. The capacity and condition of all existing natural gas services will need to be evaluated by the project MEP to determine the viability for reuse.

## Electric/Telecom Service

### *476 Webster Street – Main Campus*

According to record documents (National Grid and 1986 and 1992 construction drawings) and previous surveys conducted by MEG, the electrical service for the 1992 school building addition emanates from a utility pole within the Webster Street layout and extends underground in conduits to the school building and connects to a transformer located on the south side of the building. A generator is also located at this location (See Figure 6). A separate, underground direct burial service extends from a utility pole within Webster Street and enters the front of the original 1962 building. The electrical service for the maintenance, greenhouse, barn/locker room, and concession buildings to the rear (east) of the school building runs underground from the rear of the school building.

A 2019 construction project involved the installation of several light poles at the football field /track (See Figure 7). The electrical service to these poles runs through a conduit from utility poles within the Webster Street layout along the northern side of the parcel to a transformer located at the northeast corner of the parking lot near the athletic field (See Figure 8). The lighting system for the field is fed through underground conduits from this transformer.

Telecom service also appears to run underground from a utility pole within the Webster Street layout to the front of the school building.

### *436 Webster Street – Future Satellite Administrative Offices*

Electrical service for the building runs overhead on utility poles on the property and connects to a utility pole within the Webster Street layout (See Figure 9). Electrical service for the barn/garage is located north of the building and runs underground in a conduit from the rear of the building to the barn/garage. A generator is also located in the building's rear (west side). Additionally, solar panels are located on the roof of the building, and it is assumed that these panels supplement the building's electrical supply from Eversource (See Figure 10).

It is presumed that the telecom service also runs overhead on utility poles on the property and within the Webster Street layout to the building.

### *Recommendations*

It is presumed that electric and telecom services would continue to be fed off the existing infrastructure. The maintenance staff for the school indicates that there are presently no issues with the electricity and telecom services. The capacity and condition of all existing electric and telecom systems will need to be evaluated by the project MEP to determine the viability for reuse.



Civil/Site Infrastructure Photos



*Figure 1: Hydrant Located at the Parking Lot at the Rear of the School Building*



*Figure 2: Catch basin at the parking lot at the rear of the school building*





*Figure 3: Concrete Headwall for 18-Inch and 30-Inch Outlet Pipes*



*Figure 4: Stormwater Detention Basin*





*Figure 5: Typical Roof Leaders Connecting to Closed Drainage System*



*Figure 6: Transformer and Generator on the South Side of the School Building*



*Figure 7: Light Pole at the Athletic Field*



*Figure 8: Transformer on the North Side of the Building for Athletic Field Lighting*





*Figure 9: Overhead Electric and Telecom Services for 436 Webster Street*



*Figure 10: Solar Panels at 436 Webster Street*





The existing South Shore Regional Vocational Technical High School site is bordered by wooded areas to the south and east. An area of wetlands lies between the school's facilities and these woodlands. The school is adjacent to residential properties to the west and to the north, across Webster Street. This street, also known as Highway 123, serves as the vehicular access to the site. A portion of the property extends southwest to Main Street. The mostly one-story existing school building is located on the northern half of the site. The southern half of the site contains the school's sports fields.

### **Physical Conditions Summary**

The existing school building is oriented toward Webster Street where two driveways access the site serving a main drop-off in front of the school, creating a one-way loop from the southern entrance to the northern exit. There are several parking spaces at this front face of the school, while the majority is in the rear and north side of the building.

The property's highest point is the northern corner of the site and generally slopes to the south, dropping in elevation approximately 12 feet. A wetland area extends around the athletic fields and the southern edge of the property. The school's leaching field is in the landscape area in front of the building. Refer to separate WWTP narrative by McKenzie Engineering.

### **3.1.5 Site Development Requirements**

The items described within this section identify existing conditions and programmatic or regulatory requirements to be considered in the development and evaluation of alternative site designs, and are further depicted on the existing site plans.

#### **Structures and Fences**

Fencing will be provided to separate pedestrian and athletic facilities from vehicular areas as appropriate. Netting systems may be required for ball control due to site spatial constraints. Fencing will also be provided to buffer service/mechanical areas as required.

Retaining walls will be incorporated as required by the proposed building and site design to negotiate grade changes and provide accessibility.

#### **Site Access and Circulation**

Pedestrian access is provided to the site from surrounding neighborhoods via a sidewalk on the south side of Webster Street. However, there are no sidewalks or crosswalks within the site that connect this public sidewalk to the school's entrance or to the walkway in front of the building. Similarly, pedestrians must either walk on roadways or lawn areas around the building, as no dedicated ADA accessible walkways are provided. Nor is ADA access provided to the school's baseball field, which is at the bottom of 6'-high grass slope.



Cars use a one-way dropoff loop in front of the school, with the entrance on the west and exit on the east. This loop is approximately 400' long and is shared with parking, which limits access to parking spaces during drop-off and pick up periods. There are considerable traffic backups during the morning dropoff and afternoon pickup periods. Buses use the same entrance and exit but drop off and pick up students behind the school.

### Webster Street Entrance



The service area is at the rear of the building. It conflicts with the parking in this area so that deliveries have to be scheduled late at night. There is currently only 1 loading bay – a minimum of 1 additional bay is needed. Trash and recycling compactors are needed to reduce the current daily pickups.





### **Parking**

There are 144 staff parking spaces, 123 student, 32 visitor, and 9 school vehicle spaces, for a total of 308. This is insufficient parking for current or future needs. Student parking is in the lot north of the school while staff parks in the front and rear of the building.

Buses are parked on the southwest side of the school but must be moved on the weekends due to complaints from a neighbor. The buses are moved to the entrance to the athletic fields, which creates conflicts with pedestrians as they walk between the buses and out into traffic lanes.

### **Weekday Bus Parking**



### **Paving and Curbing**

Paving and curbing will be specified per applicable Town of Hanover and/or state standards. Asphalt paving of vehicular driveways and parking is typical. Walkway paving will include different materials such as asphalt, concrete and unit pavers based on location and use.



Existing curbing is precast concrete in poor condition. In several locations no curbs are provided. New curbing will include vertical granite at walkways and high impact areas and possibly Cape Cod asphalt berm at low impact areas along landscaping.

### **Storage**

The school lacks adequate storage for its programs and classes. It has acquired a number of Conex boxes and miscellaneous sheds of varying sizes that are scattered around the site. Any renovations or new structures should include adequate storage for all the school's needs.



### **Accessibility**

The site drops off approximately 12' from the entrance on the north to the south. This means that the elevations adjacent to the doors on the sides and rear of the building are lower than at the front. Many of these entrances have only stairs and are not ADA accessible. In order to be code-compliant ADA ramps need to be provided at each of these entrances.

### **Examples of Entrances That are not ADA Compliant**



ADA parking and curb ramps are provided in the parking area adjacent to the main entrance on Webster St. However, no ADA parking or accessible ramps or walkways are provided on the rest of the site.

There is an existing accessible route to the track, softball and football fields. However, there is no accessible route to the baseball field.

### **Emergency Vehicle Access**

Emergency access is provided to the building from Webster St. and around the building via the parking lots and driveways.

### **Safety and Security Requirements**

Access from Webster St. should be maintained and improved to accommodate the largest emergency vehicles. The design of the site and landscape is an important component to providing a safe educational environment and ability for building occupants to egress safely during emergencies.

Strategies including providing transition zones between vehicular and pedestrian areas with barriers to stop vehicles, while allowing pedestrian egress, should be considered. Clear sightlines at eye level and from security cameras and adequate site lighting should also be included in the improvements to the school.

### **Athletic Facilities**

The outdoor sports facilities are used for the following events:

- Football (Varsity, JV and Freshman)
- Boys Varsity soccer (no JV team)
- Girls Softball (both Varsity and JV)
- Cross Country (Varsity)
- Baseball (both Varsity and JV)
- Boys Lacrosse (both Varsity and JV)
- Girls Field Hockey (Varsity)
- Co-Ed Track Team

The existing stone dust track and irrigated natural grass field is positioned in an advantageous north-south orientation. However, the track is in poor repair, lacks defined edges and varies in



October 5, 2023  
BAI #223078

Mr. R. Judd Christopher  
Senior Associate, Project Manager  
Drummey Rosane Anderson, Inc.  
Howard Clock Building  
260 Charles Street, Studio 300  
Waltham, MA 02453

REFERENCE: Preliminary Traffic Impact Analysis  
South Shore Regional Vocational Technical High School  
Hanover, Massachusetts

Dear Mr. Christopher:

This preliminary traffic impact analysis was prepared at the request of Drummey Rosane Anderson, Inc. (DRA) in connection with the proposed renovation/replacement of the South Shore Regional Vocational Technical High School (SSRVTHS) at 476 Webster Street in Hanover, Massachusetts. This regional school services Hanover, as well as its neighboring communities of Abington, Cohasset, Hanson, Norwell, Rockland, Scituate, and Whitman. The school also owns the abutting parcel to the northeast at 436 Webster Street that mainly houses school administration offices and it also has an internal connecting driveway between the two school parcels. For the benefit of the boards and citizens of Hanover, this preliminary traffic impact analysis of existing conditions has been developed. The existing general traffic operations were observed at the existing school site.

A field visit covering the SSRVTHS and surrounding area was conducted on Monday, October 2, 2023, where pertinent field observations including the existing school traffic operations during arrival and dismissal times, as well as the existing stopping sight distance, location of existing utilities, posted speed limits, traffic control devices, etc., of the surrounding roadways were collected.

## 1.0 EXISTING SSRVTHS SITE

The existing SSRVTHS (Grade 9 – 12) is located south of Webster Street (Route 123) and east of Main Street, as shown in Figure No. 1. The school is accessed via an entrance-only driveway on Webster Street and a second driveway on Webster Street, which is for exit-only traffic. SSRVTHS currently has approximately 645 students and 135 teachers.

The SSRVTHS starts at 7:40 A.M. and ends at 2:25 P.M. The school schedule is arranged to have alternating weekly schedules. One week, students from grade 9 and 11 are attending academic



classes while students in grades 10 and 12 are attending shop classes, otherwise known as 'A Cycle.' The following week, these groups switch academic and shop classes for 'B Cycle.' Per staff members, an A Cycle week experiences lower traffic volumes due to numerous grade 12 students participating in co-op programs, hence these students are not attending classes on-campus during this cycle week. The school anticipates approximately 80 more student vehicles on-campus during a B Cycle week.

The majority of the students either take the school bus or are transported by private vehicles to and from school.



### 1.1 Observed Morning Arrival Operations

The area in front of the building's main entrance operates as a one-way travel way with two lanes, which are delineated by pavement markings. In the morning, private vehicles used the right lane as a rolling drop-off lane to allow students to disembark vehicles and enter the building at the main entrance (Door A7). Most of the vehicles waited to unload the students at the concrete sidewalk, but some vehicles unloaded prior to the sidewalk. Approximately 12 vehicles can be in the right lane between the building's main entrance door and the short entrance driveway from Webster Street. The queue from the drop-off area reached Webster Street for short durations on a couple of occasions, but did not spill over onto Webster Street. In regard to the traffic exiting the site, the queuing at the exit driveway was observed to have approximately 3 vehicles in the right turn lane and approximately 5 vehicles in the left turn lane at its peak, but these vehicles cleared within a minute. The queue of exiting vehicles onto Webster Street was not observed to block traffic traveling around the school into the side and back parking lots. There were short intermittent queues on Webster Street due to the entering and exiting school traffic.

The buses entered the site, traveled in the left lane around the queuing private vehicles, took a sharp right turn, continued to travel clockwise around the building through the side parking lot, and unloaded students in the back of the school at Door C1. Per staff members, approximately four buses at a time can disembark students in this area. After dropping-off students, the buses continued in a clockwise direction and are parked in the bus parking lot area in the southwest corner of the school.

There was increased traffic activity at the school during the morning operations for approximately 20 to 25 minutes. The existing traffic generated by the school had minimal impact on Webster Street traffic.

## 1.2 Observed Afternoon Dismissal Operations

Prior to 2:00 P.M., private vehicles started parking along the southeast side of Webster Street in front of the school. Private vehicles were also observed parking along the southeast side of Webster Street to the southwest of the school entrance-only driveway, in the marked perpendicular spaces along the one-way travel way in front of the school, as well as on the right side of the travel way along the grass near the northeast end of this travel way. Private vehicles also queued in the right lane in the travel way in front of the school to wait to pick up students.

The school staff used cones to block the internal eastbound travel way from the front of the school into the side lot. These cones were in place by 2:00 P.M. Vehicles were observed to travel in the opposing travel lane from the front of the building and into the side and back lots prior to the school dismissal time of 2:25 P.M.

At dismissal time, students exited from various doors. Some exited to the front to awaiting private vehicles, while others exited to the side and back lots to their personal vehicles, and others boarded their buses in the bus parking lot. A few minutes later, vehicles began to queue exiting the site. The queues formed in both lanes in the one-way travel lane in front of the school and extended past the main building entrance. There is a staff member stationed at the internal intersection of the front one-way travel way and the travel way from the side lot. At 2:29 P.M., the staff member held the vehicles that were exiting from the side and back lots, while the private vehicles from the front travel way were permitted to exit the site onto Webster Street. Once the vehicles from the front travel way were cleared, which allowed for the 12 buses to start to stack in front of the building's main entrance, the staff member started to allow the vehicles from the side lot, which are comprised of mostly student drivers, to exit onto Webster Street. The staff member again held the vehicles from the side lot to allow the awaiting buses to exit the site all at once, where 10 buses turned left and 2 buses turned right. The staff member then allowed the vehicles from the side lot to exit the site. Shortly after, the cones were removed and allowed the handful of awaiting vehicles to travel clockwise into the side lot, while the opposing lane of vehicles continued to exit. By 2:35 P.M., the staff member that was directing traffic left his position, as the queue of exiting vehicles had cleared.

There were short intermittent queues on Webster Street due to the entering and exiting school traffic, most notably when the buses exited. Queues from the nearby Webster Street and Main Street



signalized intersection extended to just southwest of the school entrance-only driveway for a short duration after the buses exited but cleared quickly.

There was increased traffic activity at the school during the afternoon operations for approximately 15 to 20 minutes. The queues remained on the school grounds during the observed operations. The existing traffic generated by the school had minimal impact on Webster Street traffic.

### 1.3 Existing Conditions – Study Area

#### *1.3.1 Webster Street/SSRVTHS Entrance-Only Driveway*

The intersection of Webster Street and the SSRVTHS entrance-only driveway is a three-way unsignalized intersection. Webster Street is a two-lane, two-way bituminous roadway approximately 35 feet in width with 11.5 to 12.5-foot travel lanes and 4.5 to 6.5-foot shoulders. There is bituminous berm on segments of the roadway. There are no sidewalks or crosswalks in the vicinity of the intersection. There are utility poles on the northwest side of the roadway. There is a "School Speed Limit for 7:00 AM - 8:00 AM and 2:00 PM - 3:00 PM" sign posted at 20 MPH for northeast traffic that is located to the southwest of the intersection. The entrance-only driveway is a two-lane, one-way bituminous roadway approximately 34 feet in width with 15 to 19-foot travel lanes and no marked shoulders. A vehicle is able to travel approximately 45 feet into the site before turning left to travel in front of the school or to turn right in order to travel counter-clockwise around the school. There are non-Manual on Uniform Traffic Control Devices (MUTCD) compliant "Warning Enter Only" signs posted on both sides of the driveway.

#### *1.3.2 Webster Street/SSRVTHS Exit-Only Driveway*

The intersection of Webster Street and the exit-only driveway is a three-way unsignalized intersection. Webster Street is a two-lane, two-way bituminous roadway approximately 35.5 feet in width with 12-foot travel lanes and 5.5 to 6-foot shoulders. There is bituminous berm on segments of the roadway. There are no sidewalks or crosswalks in the vicinity of the intersection. There are utility poles on the northwest side of the roadway. There is a School Speed Limit for 7:00 AM - 8:00 AM and 2:00 PM - 3:00 PM sign posted at 20 MPH for southwest traffic that is located to the northeast of the intersection. There are "No Parking Here to Corner" signs on the southeast side of Webster Street located to the southwest of the intersection. The exit-only driveway is a two-lane, one-way bituminous roadway approximately 29 feet in width with 14 to 15-foot travel lanes and no marked shoulders. The left-turn lane is approximately 50 feet long. There are "Do Not Enter" and non-MUTCD compliant "Exit Only" signs posted on both sides of the driveway.

### 1.4 Geometrics

The geometric configuration of the surrounding intersections were examined with regard to safe stopping sight distance using principles presented in A Policy on Geometric Design of Highways and Streets, 2018, of the American Association of State Highway and Transportation Officials (AASHTO). AASHTO provides recommendations for necessary sight distance at intersections.





A conservative design speed of 45 miles per hour (mph), which is 10 mph above the posted speed limit of 35 mph, was utilized for Webster Street in the vicinity of the two existing driveways. The minimum safe stopping sight distance for roadways with a design speed of 45 mph is 360 feet, as required by AASHTO, Table 3-1. Stopping Sight Distance on Level Roadways, P. 3-4. The existing sight distance at both driveways in both directions meets or is in excess of the minimum sight distance required.

When on-street parking is present on the southeast side of Webster Street, it restricts the sight distance to the southwest of the exit-only driveway. It is recommended that speed data be collected on Webster Street to assess the sight distances more accurately at the driveway. An estimate of where on-street parking should be restricted to provide adequate sight distance when Webster Street through traffic is traveling at 25 mph, 35 mph, and 45 mph are shown in Figure Nos. 2 to 4.





## 2.0 PRELIMINARY CONCLUSIONS AND RECOMMENDATIONS/ SUMMARY

Based on the field observations, the existing SSRVTHS site, along with the surrounding roadways, are currently impacted by the traffic generated by the school for short durations during both morning arrival and afternoon dismissal.

A preliminary recommendation is that on-street parking at the exit-only driveway be restricted further southwest, as discussed in Section 1.4. Also, it is recommended that all of the signs at the driveways be updated to Manual on Uniform Traffic Control Devices (MUTCD) compliant signs.

It is recommended that traffic counts/data be collected during a heavy traffic cycle week to evaluate possible improvements at the driveways and on the surrounding intersections based on the proposed site driveways and/or the projected student population, especially if there is an anticipated increase in the student population. Also as previously mentioned, speeds should be collected on Webster Street to more accurately assess the sight distances at the driveways.

Crash data should also be collected to determine if there are any unsafe conditions at the school driveways or surrounding area.

As stated, additional data collection and analysis will be needed to properly evaluate the anticipated traffic impacts for the chosen option. Please note, the largest number of vehicle trips to the site are the private vehicles of parents/guardians that transport student(s) to school. This is because a student that is transported by a parent or guardian will generate two trips per student (a vehicle going to and from the site) during both morning arrival and afternoon dismissal. The school can investigate the feasibility of implementing mitigation measures like encouraging more ride sharing/carpooling, etc.

Mr. R. Judd Christopher  
October 5, 2023  
Page 7 of 7

We are prepared to review the results of this preliminary study with you at your convenience. If you have any questions or comments, please do not hesitate to contact me at (401) 834-1063 or [tbrayton@bryant-engrs.com](mailto:tbrayton@bryant-engrs.com).

Very truly yours,  
BRYANT ASSOCIATES, INC.



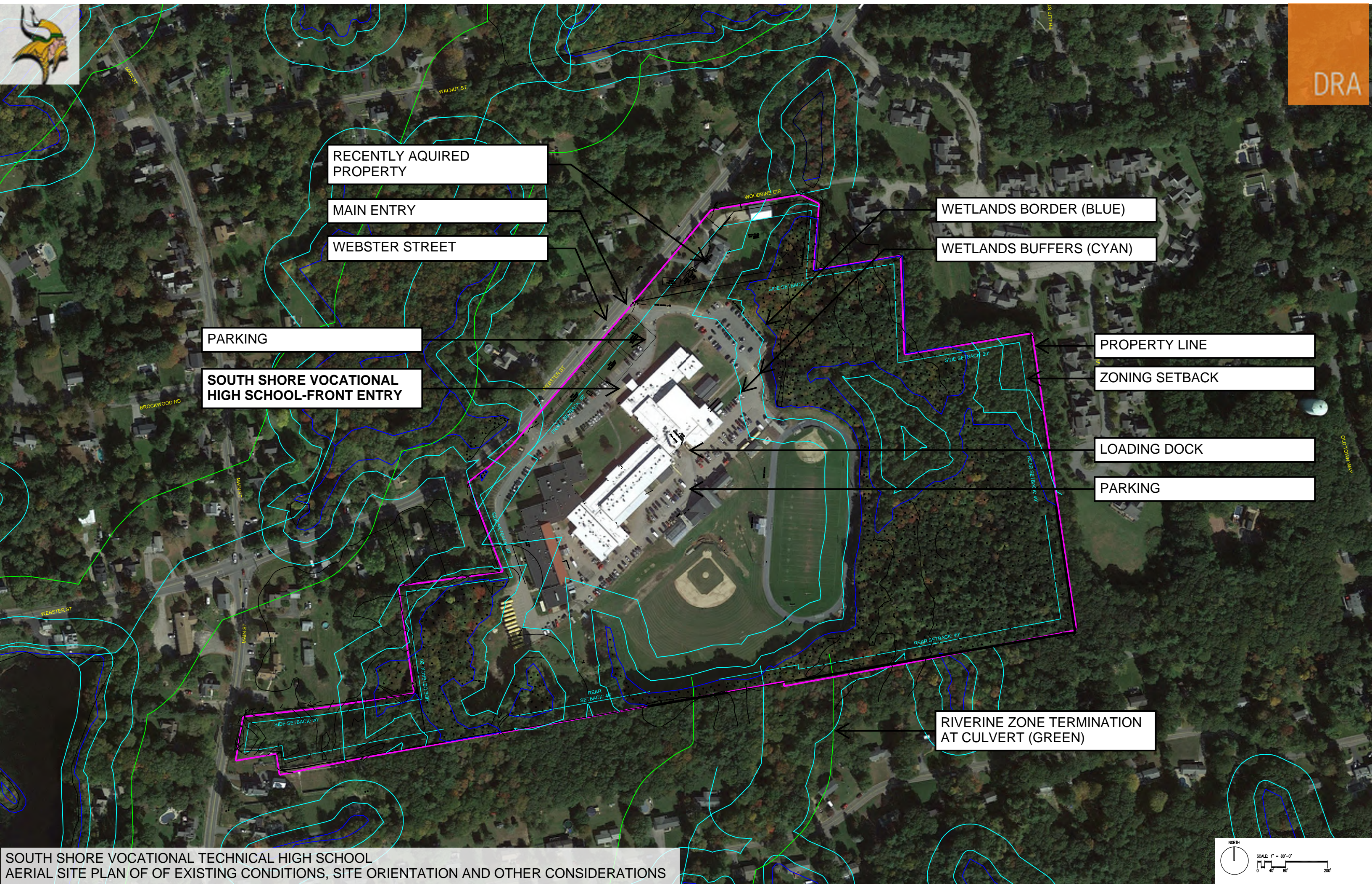
Todd E. Brayton, P.E.  
Transportation Director

TEB/erl









RECENTLY AQUIRED PROPERTY

MAIN ENTRY

WEBSTER STREET

WETLANDS BORDER (BLUE)

WETLANDS BUFFERS (CYAN)

PARKING

SOUTH SHORE VOCATIONAL HIGH SCHOOL-FRONT ENTRY

PROPERTY LINE

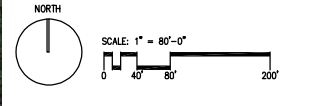
ZONING SETBACK

LOADING DOCK

PARKING

RIVERINE ZONE TERMINATION AT CULVERT (GREEN)

SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL AERIAL SITE PLAN OF OF EXISTING CONDITIONS, SITE ORIENTATION AND OTHER CONSIDERATIONS







### 3.1.6.1 Assignment Practices and Other Available Space

#### Assignment Practices:

The South Shore Regional Vocational Technical High School (South Shore Tech) is located at 476 Webster Street in Hanover, Massachusetts. South Shore Tech serves students in grades 9-12 from 9 towns: Abington, Cohasset, Hanover, Hanson, Marshfield Norwell, Rockland, Scituate and Whitman. As of the issuance of the Preliminary Design Program, the current enrollment is 671. There is a range of agreed-upon enrollments with the MSBA ranging from 645 students to 975 students. There is no change to the current grade configuration for this project or in the foreseeable future.

#### Other Available Space:

All of the South Shore Tech school building facilities are located on the 476 Webster Street property in Hanover, MA; none of the building facilities are leased; they are all owned by the South Shore Tech Regional School District. A house was recently purchased on an abutting site located at 436 Webster Street that is currently being utilized for administrative purposes.



### 3.1.6.2 Tuition Agreements

Per the regional agreement, the District School Committee may accept for enrollment in the District, pupils from towns other than the member towns on a tuition basis.





### 3.1.6.3 Building Rental or Acquisition

As part of the site analysis process, the District analyzed other available sites and buildings for the South Shore Regional Vocational Technical High School student population. There are no school or commercial buildings currently for rent or sale that could house the South Shore Regional Vocational Technical High School in the district.





### **Methods and Assumptions and Limitations of Accuracy**

This existing-conditions assessment is based on several methods used to evaluate evidence of the physical condition of the building systems. Summaries of these evaluations is included in this section of the report (section 3.1.4) and detailed assessments, with photographic documentation, is included in Appendix A of this report.

On-site observations were made by all consultants. Careful visual assessment was augmented by field measurements were necessary. Measurement was especially important to assess Building Code and Architectural Access Board compliance. Observation were recorded with contemporaneous notes and photographs which have been included in Appendix A of this report. For reference throughout the process, a high resolution interactive 3-dimensional photographic virtual building model was produced, using Matterport recording methods.

Building operations personnel were available, on site and for calls, to share the depth of their knowledge of the building and its history and to identify operational concerns. Discussions about site conditions and mechanical and electrical systems was especially important to assess the condition of these systems.

Construction drawings from the original building and previous evaluation reports were also used to assist this evaluation.

Other information, for example regarding title and historic registration, was provided by the School.

Limitations to this method primarily include inability to observe possible deficiencies or damage that is concealed from view or otherwise inaccessible.

### **Civil Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- Utility services to the building are all presumed to be part of the original construction (45± years old) and likely approaching the end of their expected lifetime.
- New stormwater management system may be required, per Massachusetts Stormwater regulations, if construction increases total impervious area.
- Providing fire suppression to the building may require upgrading fire protection service line to the building and possibly a larger water main extension throughout the property.
- The capacity and condition of all existing sanitary sewer services will need to be evaluated in conjunction with the project MEP to determine the viability for reuse.
- The design will most likely include a wastewater treatment plant designed and permitted in accordance with the Mass. DEP Groundwater Discharge Permit Program.
- Modifications and/or additions to the stormwater infrastructure may be needed to account for increases in impervious surfaces and/or changes in runoff patterns.

### **Landscape Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- There is insufficient parking for the school's current or future needs.
- ADA compliant pedestrian access is lacking from Webster St. to the main entrance, around the building, and to exterior educational and athletic facilities at several locations.
- Many of the entrances on the side and rear of the school are not ADA compliant and need to have accessible ramps installed.



- Deliveries to the loading dock conflict with parking areas.
- The bleachers at the football field are not ADA compliant and should be upgraded. They are also too small for the typical number of spectators.
- The running track is in poor condition, is too narrow and lacks defined lanes.
- The sports fields are uneven and badly worn.
- Rain events leave standing water on the fields. The drainage system should be upgraded to eliminate this problem.
- The goalposts for football games must be removed when softball games are played. A separate softball field should be provided to eliminate this conflict.

#### **Architectural Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

The current school building was constructed 61 years ago, in 1962. The current facility includes a 1978 addition and a 1992 addition. A greenhouse was added in 2018.

Overall, the building is in good condition, the result of effective maintenance and repairs. However, several major systems show widespread disrepair which could worsen and become unsafe if not remediated.

The building does not conform to several fundamental current code and regulatory requirements including, for example, lack of fire suppression, lack of accessibility accommodations, and poor exterior envelope performance.

#### **Exterior Summary:**

- Replace pre-finished metal soffit panel - maintain existing metal framing and plywood sheathing
- Replace existing roof at the 1992 addition - try to match re-roof material on the original building

#### **Interior Summary:**

- Add sprinklers to original building
- Modify typical classroom entrances to make them accessible
- Provide modifications at toilets for accessibility (original building)
- Replace food service kitchen floor for modern health codes and improved sanitation
- Replace food service kitchen ceiling
- Install linoleum in classroom areas
- Replace VCT flooring in science classrooms and lab with linoleum
- Provide acoustical treatment in existing cafeteria
- Provide acoustical treatment in existing cafeteria
- Replace existing wood floor in gymnasium with new wood athletic flooring
- Provide acoustical treatments in lecture hall
- Remove plaster ceiling in the classrooms and replace with high NRC ACT panels
- Remove plaster ceiling in the corridors and replace with high NRC ACT panels
- Remove existing plaster ceiling within the original building and replace with 2x2 ACT

#### **Furniture Fixtures and Equipment Assessment and Deficiency Survey Summary (FFE)**

**FFE Academic (see Appendix A for detailed analysis):**



**General**

- Casework does not appear to be ADA accessible.
- Provide additional casework for storage.

**Auto Collision Vocational Shop**

- New spray/paint/mixing room needed
- Larger Capacity 16k symmetrical lift

**Auto Technology Vocational Shop**

- Provide larger capacity alignment rack to serve more types of vehicles

**HVAC-R Vocational Shop**

- Metalwork EQ is worn – may need replacement

**Metal Fabrication Vocational Shop**

- Larger plasma cutter recommended
- Workstation crane system needed

**Cosmetology Vocational Shop**

- Larger student lockers needed – enclosed storage for wigs/heads

**Carpentry Vocational Shop**

- Replace Powermatic Bandsaw
- Provide robust conforming dust collection system

**FFE Culinary (see Appendix A for detailed analysis):**

- All equipment, in commercial kitchens must be built in accordance to National Sanitation Foundation (NSF) standards as a requirement of the food codes
- Replace exhaust hoods and fire suppression systems equipped with the latest in life safety features.
- Enclose exposed utilities on the walls and provide a smooth washable surface
- The stainless steel tables should be replaced with a completely stainless steel construction that conforms to NSF standards.

**Accessibility Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):****Structural Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- Structure performing well
- Minor cracks in the interior masonry walls at a few location, no widespread cracking
- Non-structural masonry walls separating from the original masonry walls at some locations in from the 1992 addition
- Minor spalling of concrete at the corners of foundation walls and in the exterior concrete stairs

**Fire Protection Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- provide automatic fire sprinkler system in all unprotected locations



- Flush existing system
- Replace corroded fittings

**Plumbing Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- Replace all ADA non-complying toilet fixtures
- Some rooftop plumbing vents are too close to fresh air intakes
- Floor drains throughout the building do not appear to be equipped with automatic trap primers
- Kitchen gas supply may not be properly interlocked with the kitchen hoods
- Laboratory waste piping includes copper, cast iron, and PVC
- Upgrade laboratory acid neutralization system to a chemical injection type system as required per science curriculum
- Emergency showers are not located on the egress pathway of the lab
- Hot water runouts to emergency safety stations may exceed the maximum length allowed by code

**Mechanical Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- Overall the condition of the mechanical systems are fair to poor
- Provide direct digital control (DDC) HVAC system control system to a with energy management capability, including the removal of all pneumatic equipment and piping and replacement with new electronic valves, wiring, and control panels.
- Remove and replace existing unit ventilators, cabinet heaters and finned tube radiation

**Electrical Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

- Overall the condition of the electrical systems are fair to poor
- Provide addressable fire alarm system in lieu of existing zoned system including additional power supplies, electrical branch circuit wiring, fire alarm devices and programming
- Replace the original buildings existing electrical infrastructure including the addition of air conditioning and a new electrical service with branch circuit panelboards and feeders
- Provide LED light fixtures throughout building
- Upgrade lighting controls throughout the building to meet the latest energy code requirements

**Technology and Security Assessment and Deficiency Survey Summary (see Appendix A for detailed analysis):**

**Telecom**

- Provide new conditioned and secure IT Rooms to house network cabling, equipment, UPS, and security equipment.
- Remove existing backbone infrastructure and replace with new fiber cabling.
- Remove existing horizontal cabling and replace with new category 6A.
- Upgrade WIFI coverage with additional WAP devices and locations.

**Security**

- Remove and replace existing video surveillance system with new network based system integrated into new access control system.
- Remove and replace existing access control system with new network based system integrated into new video surveillance system.



**Audiovisual**

- Remove and replace existing paging and clock system with a new IP network based mass communication system with call wall phones and all in one (speaker, digital clock, message board, ADA strobe) network devices.
- Add additional paging speakers to the exterior of the building.







**PDP Estimate - Base Repair Option**

COST SUMMARY			121,805 GSF
BASE REPAIR OPTION			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>1,140,000</b>	<b>9.36</b>
A10 Foundations	1,140,000		9.36
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>17,160,575</b>	<b>140.89</b>
B10 Superstructure	1,140,900		9.37
B20 Exterior Enclosure	8,765,500		71.96
B30 Roofing	7,254,175		59.56
<b>C INTERIORS</b>		<b>6,763,855</b>	<b>55.53</b>
C10 Interior Construction	3,043,850		24.99
C20 Stairs	25,600		0.21
C30 Interior Finishes	3,694,405		30.33
<b>D SERVICES</b>		<b>18,939,112</b>	<b>155.49</b>
D10 Conveying	-		-
D20 Plumbing	280,264		2.30
D30 HVAC	10,799,930		88.67
D40 Fire Protection	1,351,415		11.09
D50 Electrical	6,507,503		53.43
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>545,000</b>	<b>4.47</b>
E10 Equipment	245,000		2.01
E20 Furnishings	300,000		2.46
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,216,185</b>	<b>34.61</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,216,185		34.61
<b>G SITEWORK</b>		<b>4,485,975</b>	<b>36.83</b>



**PDP Estimate - Base Repair Option**

COST SUMMARY			121,805 GSF
BASE REPAIR OPTION			
		Subtotal Trade	Total
			Cost/sf
G10 Site Preparation		309,000	2.54
G20 Site Improvements		920,775	7.56
G30 Site Mechanical Utilities		2,696,200	22.14
G40 Site Electrical Utilities		560,000	4.60
G90 Other Site Construction		-	-
<b>TOTAL DIRECT COST</b>		<b>\$ 53,250,702</b>	<b>53,250,702</b>
Modular Classrooms		10,000 GSF	5,500,000
Design Contingency	20.00%		10,651,000
Phasing/Scheduling Premium	1.69%		900,000
CM Contingency	2.50%		1,757,600
<b>Subtotal - Direct Construction Cost + Contingencies</b>			<b>72,059,302</b>
General Conditions, CM	16.00%		11,530,000
General Requirements, CM	4.00%		2,883,000
Bonds	1.10%		793,000
Insurancess	1.00%		721,000
OH&P, CM	3.00%		2,162,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>			<b>90,148,302</b>
Escalation (Through 2030)	36.00%		32,454,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>			<b>\$ 122,602,302</b>
			<b>1,006.55</b>

## Overview of Addition-Renovation and New Construction Options

Following is a comparison of the several proposed options for the South Shore Vocational High School school building project. Comparisons include both qualitative assessment, including for instance a review of how each option meets the School's educational goals, and quantitative assessment, including for instance review of area and estimated costs.

Included are 5 building options. There are 2 addition-renovation options and there are 3 new construction options. Each of the 5 building options include a quantitative assessment of the 5 enrollment options. Therefore 25 different options are included in the following comparison.

This overview includes:

- Gross Floor Area Comparative Summary
- Construction Cost Comparative Summary
- Detail Construction Cost Estimate for Each of 25 Options



# Preliminary Options



Option	645 students	750 students	805 students	900 students	975 students
Addition/ Renovation <b>AR- 1 “L-shape”</b>	201,500 sf	217,500 sf	230,400 sf	243,200 sf	254,500 sf
Addition/ Renovation <b>AR- 2 “Lightwell”</b>	188,100 sf	201,700 sf	209,600 sf	228,500 sf	236,100 sf
New Construction <b>NC-1 “Courtyard”</b>	203,480 sf	228,540 sf	240,000 sf	260,000 sf	278,000 sf
New Construction <b>NC-2 “Linear”</b>	203,480 sf	228,540 sf	240,000 sf	260,000 sf	278,000 sf
New Construction <b>NC-3 “Wings”</b>	203,480 sf	228,540 sf	240,000 sf	260,000 sf	278,000 sf



# Preliminary Options – Construction Costs

Option	645 students	750 students	805 students	900 students	975 students
Addition/ Renovation AR- 1 “L-shape”	\$243 M	\$266 M	\$280 M	\$293 M	\$313 M
Addition/ Renovation AR- 2 “Lightwell”	\$222 M	\$243 M	\$251 M	\$271 M	\$280 M
New Construction NC-1 “Courtyard”	\$235 M	\$264 M	\$275 M	\$294 M	\$311 M
New Construction NC-2 “Linear”	\$235 M	\$264 M	\$275 M	\$294 M	\$311 M
New Construction NC-3 “Wings”	\$235 M	\$264 M	\$275 M	\$294 M	\$311 M

**South Shore Regional Vocational Technical HS**  
**476 Webster Street**  
**Hanover, MA**

## **PDP Budget Estimate - Options**

**10/18/2023**

**Drummev Rosane Anderson, Inc.**  
260 Charles Street, Suite 300  
Waltham, MA 02453



98 N. Washington St. Boston, MA 02114  
(857) 233-4561



# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - New Construction - Option NC-01 - COURTYARD

COST SUMMARY		Size	203,480 GSF
		Population	645 Student
<b>NEW CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>5,087,000</b>	<b>25.00</b>
A10 Foundations	5,087,000		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>37,643,800</b>	<b>185.00</b>
B10 Superstructure	18,313,200		90.00
B20 Exterior Enclosure	14,243,600		70.00
B30 Roofing	5,087,000		25.00
<b>C INTERIORS</b>		<b>16,888,840</b>	<b>83.00</b>
C10 Interior Construction	9,156,600		45.00
C20 Stairs	610,440		3.00
C30 Interior Finishes	7,121,800		35.00
<b>D SERVICES</b>		<b>46,088,220</b>	<b>226.50</b>
D10 Conveying	508,700		2.50
D20 Plumbing	6,104,400		30.00
D30 HVAC	23,400,200		115.00
D40 Fire Protection	1,831,320		9.00
D50 Electrical	14,243,600		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>5,087,000</b>	<b>25.00</b>
E10 Equipment	2,645,240		13.00
E20 Furnishings	2,441,760		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,069,600</b>	<b>20.00</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,069,600		20.00
<b>G SITEWORK</b>		<b>25,231,520</b>	<b>124.00</b>
G10 Site Preparation	3,052,200		15.00
G20 Site Improvements	12,005,320		59.00
G30 Site Mechanical Utilities	9,767,040		48.00
G40 Site Electrical Utilities	406,960		2.00
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 140,095,980</b>	<b>140,095,980</b>	<b>688.50</b>





## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - New Construction - Option NC-01 - COURTYARD

COST SUMMARY		Size	203,480 GSF
		Population	645 Student
<b>NEW CONSTRUCTION OPTION</b>			
		Subtotal Trade	Total
		Total	Cost/sf
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		21,015,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		4,027,800
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>165,138,780</b>	<b>811.57</b>
General Conditions, CM	8.00%		13,212,000
General Requirements, CM	4.00%		6,606,000
Bonds	1.10%		1,817,000
Insurancess	1.00%		1,652,000
OH&P, CM	3.50%		5,780,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>194,205,780</b>	<b>954.42</b>
Escalation (Through Q4 2027)	21.00%		40,784,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 234,989,780</b>	<b>1,154.85 /GSF</b>



# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - New Construction - Option NC-02 - LINEAR

COST SUMMARY		Size	203,480 GSF
		Population	645 Student
<b>NEW CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>5,087,000</b>	<b>25.00</b>
A10 Foundations	5,087,000		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>37,643,800</b>	<b>185.00</b>
B10 Superstructure	18,313,200		90.00
B20 Exterior Enclosure	14,243,600		70.00
B30 Roofing	5,087,000		25.00
<b>C INTERIORS</b>		<b>16,888,840</b>	<b>83.00</b>
C10 Interior Construction	9,156,600		45.00
C20 Stairs	610,440		3.00
C30 Interior Finishes	7,121,800		35.00
<b>D SERVICES</b>		<b>46,088,220</b>	<b>226.50</b>
D10 Conveying	508,700		2.50
D20 Plumbing	6,104,400		30.00
D30 HVAC	23,400,200		115.00
D40 Fire Protection	1,831,320		9.00
D50 Electrical	14,243,600		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>5,087,000</b>	<b>25.00</b>
E10 Equipment	2,645,240		13.00
E20 Furnishings	2,441,760		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,069,600</b>	<b>20.00</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,069,600		20.00
<b>G SITEWORK</b>		<b>25,231,520</b>	<b>124.00</b>
G10 Site Preparation	3,052,200		15.00
G20 Site Improvements	12,005,320		59.00
G30 Site Mechanical Utilities	9,767,040		48.00
G40 Site Electrical Utilities	406,960		2.00
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 140,095,980</b>	<b>140,095,980</b>	<b>688.50</b>



## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - New Construction - Option NC-02 - LINEAR

COST SUMMARY		Size	203,480 GSF
		Population	645 Student
<b>NEW CONSTRUCTION OPTION</b>			
		Subtotal Trade	Total
		Total	Cost/sf
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		21,015,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		4,027,800
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>165,138,780</b>	<b>811.57</b>
General Conditions, CM	8.00%		13,212,000
General Requirements, CM	4.00%		6,606,000
Bonds	1.10%		1,817,000
Insurancess	1.00%		1,652,000
OH&P, CM	3.50%		5,780,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>194,205,780</b>	<b>954.42</b>
Escalation (Through Q4 2027)	21.00%		40,784,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 234,989,780</b>	<b>1,154.85 /GSF</b>



# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - New Construction - Option NC-03 - WINGS

COST SUMMARY		Size	203,480 GSF
		Population	645 Student
<b>NEW CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>5,087,000</b>	<b>25.00</b>
A10 Foundations	5,087,000		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>37,643,800</b>	<b>185.00</b>
B10 Superstructure	18,313,200		90.00
B20 Exterior Enclosure	14,243,600		70.00
B30 Roofing	5,087,000		25.00
<b>C INTERIORS</b>		<b>16,888,840</b>	<b>83.00</b>
C10 Interior Construction	9,156,600		45.00
C20 Stairs	610,440		3.00
C30 Interior Finishes	7,121,800		35.00
<b>D SERVICES</b>		<b>46,088,220</b>	<b>226.50</b>
D10 Conveying	508,700		2.50
D20 Plumbing	6,104,400		30.00
D30 HVAC	23,400,200		115.00
D40 Fire Protection	1,831,320		9.00
D50 Electrical	14,243,600		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>5,087,000</b>	<b>25.00</b>
E10 Equipment	2,645,240		13.00
E20 Furnishings	2,441,760		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,069,600</b>	<b>20.00</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,069,600		20.00
<b>G SITEWORK</b>		<b>25,231,520</b>	<b>124.00</b>
G10 Site Preparation	3,052,200		15.00
G20 Site Improvements	12,005,320		59.00
G30 Site Mechanical Utilities	9,767,040		48.00
G40 Site Electrical Utilities	406,960		2.00
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 140,095,980</b>	<b>140,095,980</b>	<b>688.50</b>



## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - New Construction - Option NC-03 - WINGS

COST SUMMARY		Size	203,480 GSF
		Population	645 Student
<b>NEW CONSTRUCTION OPTION</b>			
		Subtotal Trade	Total
		Total	Cost/sf
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		21,015,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		4,027,800
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>165,138,780</b>	<b>811.57</b>
General Conditions, CM	8.00%		13,212,000
General Requirements, CM	4.00%		6,606,000
Bonds	1.10%		1,817,000
Insurancess	1.00%		1,652,000
OH&P, CM	3.50%		5,780,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>194,205,780</b>	<b>954.42</b>
Escalation (Through Q4 2027)	21.00%		40,784,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 234,989,780</b>	<b>1,154.85 /GSF</b>



## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - Add/Reno Construction - Option AR-01 - L SHAPE

COST SUMMARY		Size	201,500 GSF
	<b>Including</b>	<b>New</b>	<b>93,500 GSF</b>
		<b>Reno</b>	<b>108,000 GSF</b>
		<b>Population</b>	<b>645 Student</b>
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	<b>Subtotal Trade</b>	<b>Total</b>	<b>Cost/sf</b>
<b>A SUBSTRUCTURE</b>		<b>2,662,000</b>	<b>13.21</b>
A10 Foundations	2,662,000		13.21
A20 Basement Construction	-		-
		\$	-
<b>B SHELL</b>		<b>25,938,000</b>	<b>128.72</b>
B10 Superstructure	9,495,000		47.12
B20 Exterior Enclosure	11,405,000		56.60
B30 Roofing	5,038,000		25.00
<b>C INTERIORS</b>		<b>16,618,000</b>	<b>82.47</b>
C10 Interior Construction	9,176,000		45.54
C20 Stairs	389,000		1.93
C30 Interior Finishes	7,053,000		35.00
<b>D SERVICES</b>		<b>45,155,000</b>	<b>224.09</b>
D10 Conveying	234,000		1.16
D20 Plumbing	6,045,000		30.00
D30 HVAC	23,173,000		115.00
D40 Fire Protection	1,598,000		7.93
D50 Electrical	14,105,000		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>5,038,000</b>	<b>25.00</b>
E10 Equipment	2,620,000		13.00
E20 Furnishings	2,418,000		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>2,160,000</b>	<b>10.72</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	2,160,000		10.72
<b>G SITEWORK</b>		<b>25,265,000</b>	<b>125.38</b>
G10 Site Preparation	3,043,000		15.10
G20 Site Improvements	12,090,000		60.00
G30 Site Mechanical Utilities	9,719,000		48.23
G40 Site Electrical Utilities	413,000		2.05
G90 Other Site Construction	-		-



**South Shore Regional Voc Tech HS**

Hanover, MA

10/18/2023

**PDP Estimate - Add/Reno Construction - Option AR-01 - L SHAPE**

<b>COST SUMMARY</b>		<b>Size</b>	<b>201,500 GSF</b>
	<b>Including</b>	<b>New</b>	<b>93,500 GSF</b>
		<b>Reno</b>	<b>108,000 GSF</b>
		<b>Population</b>	<b>645 Student</b>
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	<b>Subtotal Trade</b>	<b>Total</b>	<b>Cost/sf</b>
<b>TOTAL DIRECT COST</b>	<b>\$ 122,836,000</b>	<b>122,836,000</b>	<b>609.61</b>
Modular Classrooms	17,000 GSF	9,350,000	-
Design Contingency	20.00%	24,568,000	
Phasing/Scheduling Premium	1.25%	1,960,000	
CM Contingency	2.50%	3,967,900	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>162,681,900</b>	<b>807.35</b>
General Conditions, CM	8.00%	13,015,000	
General Requirements, CM	4.00%	6,508,000	
Bonds	1.10%	1,790,000	
Insurancess	1.00%	1,627,000	
OH&P, CM	3.50%	5,694,000	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>191,315,900</b>	<b>949.46</b>
Escalation (Through Q3 2028)	27.00%	51,656,000	
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 242,971,900</b>	<b>1,205.82 /GSF</b>





# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - Add/Reno Construction - Option AR-02 - LIGHTWELL

COST SUMMARY		Size	188,100 GSF
	Including	New	73,100 GSF
		Reno	115,000 GSF
		Population	645 Student
ADD/RENO CONSTRUCTION OPTION			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>2,173,000</b>	<b>11.55</b>
A10 Foundations	2,173,000		11.55
A20 Basement Construction	-		-
		\$	-
<b>B SHELL</b>		<b>22,724,000</b>	<b>120.81</b>
B10 Superstructure	7,729,000		41.09
B20 Exterior Enclosure	10,292,000		54.72
B30 Roofing	4,703,000		25.00
<b>C INTERIORS</b>		<b>15,499,000</b>	<b>82.40</b>
C10 Interior Construction	8,580,000		45.61
C20 Stairs	335,000		1.78
C30 Interior Finishes	6,584,000		35.00
<b>D SERVICES</b>		<b>42,088,000</b>	<b>223.75</b>
D10 Conveying	183,000		0.97
D20 Plumbing	5,643,000		30.00
D30 HVAC	21,632,000		115.00
D40 Fire Protection	1,463,000		7.78
D50 Electrical	13,167,000		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>4,704,000</b>	<b>25.01</b>
E10 Equipment	2,446,000		13.00
E20 Furnishings	2,258,000		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>2,300,000</b>	<b>12.23</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	2,300,000		12.23
<b>G SITEWORK</b>		<b>25,452,000</b>	<b>135.31</b>
G10 Site Preparation	3,198,000		17.00
G20 Site Improvements	12,058,000		64.10
G30 Site Mechanical Utilities	9,782,000		52.00
G40 Site Electrical Utilities	414,000		2.20
G90 Other Site Construction	-		-



**South Shore Regional Voc Tech HS**

Hanover, MA

10/18/2023

**PDP Estimate - Add/Reno Construction - Option AR-02 - LIGHTWELL**

<b>COST SUMMARY</b>		<b>Size</b>	<b>188,100 GSF</b>
	<b>Including</b>	<b>New</b>	<b>73,100 GSF</b>
		<b>Reno</b>	<b>115,000 GSF</b>
		<b>Population</b>	<b>645 Student</b>
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	<b>Subtotal Trade</b>	<b>Total</b>	<b>Cost/sf</b>
<b>TOTAL DIRECT COST</b>			
	<b>\$ 114,940,000</b>	<b>114,940,000</b>	<b>611.06</b>
Modular Classrooms	10,000 GSF	5,500,000	-
Design Contingency	20.00%	22,988,000	
Phasing/Scheduling Premium	1.25%	1,800,000	
CM Contingency	2.50%	3,630,700	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>148,858,700</b>	<b>791.38</b>
General Conditions, CM	8.00%	11,909,000	
General Requirements, CM	4.00%	5,955,000	
Bonds	1.10%	1,638,000	
Insurancess	1.00%	1,489,000	
OH&P, CM	3.50%	5,211,000	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>175,060,700</b>	<b>930.68</b>
Escalation (Through Q3 2028)	27.00%	47,267,000	
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 222,327,700</b>	<b>1,181.97 /GSF</b>



# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - New Construction - Option NC-01 - COURTYARD

COST SUMMARY		Size	228,540 GSF
		Population	750 Student
<b>NEW CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>5,713,500</b>	<b>25.00</b>
A10 Foundations	5,713,500		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>42,279,900</b>	<b>185.00</b>
B10 Superstructure	20,568,600		90.00
B20 Exterior Enclosure	15,997,800		70.00
B30 Roofing	5,713,500		25.00
<b>C INTERIORS</b>		<b>18,968,820</b>	<b>83.00</b>
C10 Interior Construction	10,284,300		45.00
C20 Stairs	685,620		3.00
C30 Interior Finishes	7,998,900		35.00
<b>D SERVICES</b>		<b>51,764,310</b>	<b>226.50</b>
D10 Conveying	571,350		2.50
D20 Plumbing	6,856,200		30.00
D30 HVAC	26,282,100		115.00
D40 Fire Protection	2,056,860		9.00
D50 Electrical	15,997,800		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>5,713,500</b>	<b>25.00</b>
E10 Equipment	2,971,020		13.00
E20 Furnishings	2,742,480		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,113,720</b>	<b>18.00</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,113,720		18.00
<b>G SITEWORK</b>		<b>28,796,040</b>	<b>126.00</b>
G10 Site Preparation	3,199,560		14.00
G20 Site Improvements	12,341,160		54.00
G30 Site Mechanical Utilities	12,798,240		56.00
G40 Site Electrical Utilities	457,080		2.00
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 157,349,790</b>	<b>157,349,790</b>	<b>688.50</b>



**South Shore Regional Voc Tech HS**

Hanover, MA

10/18/2023

**PDP Estimate - New Construction - Option NC-01 - COURTYARD**

<b>COST SUMMARY</b>		<b>Size</b>	<b>228,540 GSF</b>
		<b>Population</b>	<b>750 Student</b>
<b>NEW CONSTRUCTION OPTION</b>			
		<b>Subtotal Trade</b>	<b>Total</b>
		<b>Cost/sf</b>	
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		23,603,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		4,523,900
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>185,476,690</b>	<b>811.57</b>
General Conditions, CM	8.00%		14,839,000
General Requirements, CM	4.00%		7,420,000
Bonds	1.10%		2,041,000
Insurancess	1.00%		1,855,000
OH&P, CM	3.50%		6,492,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>218,123,690</b>	<b>954.42</b>
Escalation (Through Q4 2027)	21.00%		45,806,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 263,929,690</b>	<b>1,154.85 /GSF</b>



## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - New Construction - Option NC-02 - LINEAR

COST SUMMARY		Size	228,540 GSF
		Population	750 Student
		NEW CONSTRUCTION OPTION	
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>5,713,500</b>	<b>25.00</b>
A10 Foundations	5,713,500		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>42,279,900</b>	<b>185.00</b>
B10 Superstructure	20,568,600		90.00
B20 Exterior Enclosure	15,997,800		70.00
B30 Roofing	5,713,500		25.00
<b>C INTERIORS</b>		<b>18,968,820</b>	<b>83.00</b>
C10 Interior Construction	10,284,300		45.00
C20 Stairs	685,620		3.00
C30 Interior Finishes	7,998,900		35.00
<b>D SERVICES</b>		<b>51,764,310</b>	<b>226.50</b>
D10 Conveying	571,350		2.50
D20 Plumbing	6,856,200		30.00
D30 HVAC	26,282,100		115.00
D40 Fire Protection	2,056,860		9.00
D50 Electrical	15,997,800		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>5,713,500</b>	<b>25.00</b>
E10 Equipment	2,971,020		13.00
E20 Furnishings	2,742,480		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,113,720</b>	<b>18.00</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,113,720		18.00
<b>G SITEWORK</b>		<b>28,796,040</b>	<b>126.00</b>
G10 Site Preparation	3,199,560		14.00
G20 Site Improvements	12,341,160		54.00
G30 Site Mechanical Utilities	12,798,240		56.00
G40 Site Electrical Utilities	457,080		2.00
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 157,349,790</b>	<b>157,349,790</b>	<b>688.50</b>



## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - New Construction - Option NC-02 - LINEAR

COST SUMMARY		Size	228,540 GSF
		Population	750 Student
<b>NEW CONSTRUCTION OPTION</b>			
		Subtotal Trade	Total
		Total	Cost/sf
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		23,603,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		4,523,900
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>185,476,690</b>	<b>811.57</b>
General Conditions, CM	8.00%		14,839,000
General Requirements, CM	4.00%		7,420,000
Bonds	1.10%		2,041,000
Insurancess	1.00%		1,855,000
OH&P, CM	3.50%		6,492,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>218,123,690</b>	<b>954.42</b>
Escalation (Through Q4 2027)	21.00%		45,806,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 263,929,690</b>	<b>1,154.85 /GSF</b>



## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - New Construction - Option NC-03 - WINGS

COST SUMMARY		Size	228,540 GSF
		Population	750 Student
		NEW CONSTRUCTION OPTION	
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>5,713,500</b>	<b>25.00</b>
A10 Foundations	5,713,500		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>42,279,900</b>	<b>185.00</b>
B10 Superstructure	20,568,600		90.00
B20 Exterior Enclosure	15,997,800		70.00
B30 Roofing	5,713,500		25.00
<b>C INTERIORS</b>		<b>18,968,820</b>	<b>83.00</b>
C10 Interior Construction	10,284,300		45.00
C20 Stairs	685,620		3.00
C30 Interior Finishes	7,998,900		35.00
<b>D SERVICES</b>		<b>51,764,310</b>	<b>226.50</b>
D10 Conveying	571,350		2.50
D20 Plumbing	6,856,200		30.00
D30 HVAC	26,282,100		115.00
D40 Fire Protection	2,056,860		9.00
D50 Electrical	15,997,800		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>5,713,500</b>	<b>25.00</b>
E10 Equipment	2,971,020		13.00
E20 Furnishings	2,742,480		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,113,720</b>	<b>18.00</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,113,720		18.00
<b>G SITEWORK</b>		<b>28,796,040</b>	<b>126.00</b>
G10 Site Preparation	3,199,560		14.00
G20 Site Improvements	12,341,160		54.00
G30 Site Mechanical Utilities	12,798,240		56.00
G40 Site Electrical Utilities	457,080		2.00
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 157,349,790</b>	<b>157,349,790</b>	<b>688.50</b>



**South Shore Regional Voc Tech HS**

Hanover, MA

10/18/2023

**PDP Estimate - New Construction - Option NC-03 - WINGS**

<b>COST SUMMARY</b>		<b>Size</b>	<b>228,540 GSF</b>
		<b>Population</b>	<b>750 Student</b>
<b>NEW CONSTRUCTION OPTION</b>			
		<b>Subtotal Trade</b>	<b>Total</b>
		<b>Cost/sf</b>	
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		23,603,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		4,523,900
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>185,476,690</b>	<b>811.57</b>
General Conditions, CM	8.00%		14,839,000
General Requirements, CM	4.00%		7,420,000
Bonds	1.10%		2,041,000
Insurancess	1.00%		1,855,000
OH&P, CM	3.50%		6,492,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>218,123,690</b>	<b>954.42</b>
Escalation (Through Q4 2027)	21.00%		45,806,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 263,929,690</b>	<b>1,154.85 /GSF</b>





# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - Add/Reno Construction - Option AR-01 - L SHAPE

COST SUMMARY		Size	217,500 GSF
	Including	New	109,500 GSF
		Reno	108,000 GSF
	Population		750 Student
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A</b>	<b>SUBSTRUCTURE</b>	<b>3,062,000</b>	<b>14.08</b>
	A10 Foundations	3,062,000	14.08
	A20 Basement Construction	-	-
			\$ -
<b>B</b>	<b>SHELL</b>	<b>28,898,000</b>	<b>132.86</b>
	B10 Superstructure	10,935,000	50.28
	B20 Exterior Enclosure	12,525,000	57.59
	B30 Roofing	5,438,000	25.00
<b>C</b>	<b>INTERIORS</b>	<b>17,946,000</b>	<b>82.51</b>
	C10 Interior Construction	9,896,000	45.50
	C20 Stairs	437,000	2.01
	C30 Interior Finishes	7,613,000	35.00
<b>D</b>	<b>SERVICES</b>	<b>48,779,000</b>	<b>224.27</b>
	D10 Conveying	274,000	1.26
	D20 Plumbing	6,525,000	30.00
	D30 HVAC	25,013,000	115.00
	D40 Fire Protection	1,742,000	8.01
	D50 Electrical	15,225,000	70.00
<b>E</b>	<b>FITTINGS &amp; FIXED EQUIPMENT</b>	<b>5,438,000</b>	<b>25.00</b>
	E10 Equipment	2,828,000	13.00
	E20 Furnishings	2,610,000	12.00
<b>F</b>	<b>SPECIAL CONSTRUCTION &amp; DEMOLITION</b>	<b>2,160,000</b>	<b>9.93</b>
	F10 Special Construction	-	-
	F20 Selective Building Demolition	2,160,000	9.93
<b>G</b>	<b>SITWORK</b>	<b>28,885,000</b>	<b>132.80</b>
	G10 Site Preparation	3,219,000	14.80
	G20 Site Improvements	12,398,000	57.00
	G30 Site Mechanical Utilities	12,811,000	58.90
	G40 Site Electrical Utilities	457,000	2.10
	G90 Other Site Construction	-	-



**South Shore Regional Voc Tech HS**

Hanover, MA

10/18/2023

**PDP Estimate - Add/Reno Construction - Option AR-01 - L SHAPE**

<b>COST SUMMARY</b>		<b>Size</b>	<b>217,500 GSF</b>
	<b>Including</b>	<b>New</b>	<b>109,500 GSF</b>
		<b>Reno</b>	<b>108,000 GSF</b>
		<b>Population</b>	<b>750 Student</b>
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	<b>Subtotal Trade</b>	<b>Total</b>	<b>Cost/sf</b>
<b>TOTAL DIRECT COST</b>	<b>\$ 135,168,000</b>	<b>135,168,000</b>	<b>621.46</b>
Modular Classrooms		17,000 GSF 9,350,000	-
Design Contingency	20.00%	27,034,000	
Phasing/Scheduling Premium	1.25%	2,150,000	
CM Contingency	2.50%	4,342,600	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>178,044,600</b>	<b>818.60</b>
General Conditions, CM	8.00%	14,244,000	
General Requirements, CM	4.00%	7,122,000	
Bonds	1.10%	1,959,000	
Insurancess	1.00%	1,781,000	
OH&P, CM	3.50%	6,232,000	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>209,382,600</b>	<b>962.68</b>
Escalation (Through Q3 2028)	27.00%	56,534,000	
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 265,916,600</b>	<b>1,222.61 /GSF</b>



**South Shore Regional Voc Tech HS**

10/18/2023

Hanover, MA

**PDP Estimate - Add/Reno Construction - Option AR-02 - LIGHTWELL**

<b>COST SUMMARY</b>		<b>Size</b>	<b>201,700 GSF</b>
	<b>Including</b>	<b>New</b>	<b>86,700 GSF</b>
		<b>Reno</b>	<b>115,000 GSF</b>
		<b>Population</b>	<b>750 Student</b>
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	<b>Subtotal Trade</b>	<b>Total</b>	<b>Cost/sf</b>
<b>A</b>	<b>SUBSTRUCTURE</b>	<b>2,513,000</b>	<b>12.46</b>
	A10 Foundations	2,513,000	12.46
	A20 Basement Construction	-	-
			\$ -
<b>B</b>	<b>SHELL</b>	<b>25,240,000</b>	<b>125.14</b>
	B10 Superstructure	8,953,000	44.39
	B20 Exterior Enclosure	11,244,000	55.75
	B30 Roofing	5,043,000	25.00
<b>C</b>	<b>INTERIORS</b>	<b>16,628,000</b>	<b>82.44</b>
	C10 Interior Construction	9,192,000	45.57
	C20 Stairs	376,000	1.86
	C30 Interior Finishes	7,060,000	35.00
<b>D</b>	<b>SERVICES</b>	<b>45,169,000</b>	<b>223.94</b>
	D10 Conveying	217,000	1.08
	D20 Plumbing	6,051,000	30.00
	D30 HVAC	23,196,000	115.00
	D40 Fire Protection	1,586,000	7.86
	D50 Electrical	14,119,000	70.00
<b>E</b>	<b>FITTINGS &amp; FIXED EQUIPMENT</b>	<b>5,044,000</b>	<b>25.01</b>
	E10 Equipment	2,623,000	13.00
	E20 Furnishings	2,421,000	12.00
<b>F</b>	<b>SPECIAL CONSTRUCTION &amp; DEMOLITION</b>	<b>2,300,000</b>	<b>11.40</b>
	F10 Special Construction	-	-
	F20 Selective Building Demolition	2,300,000	11.40
<b>G</b>	<b>SITWORK</b>	<b>29,099,000</b>	<b>144.27</b>
	G10 Site Preparation	3,228,000	16.00
	G20 Site Improvements	12,506,000	62.00
	G30 Site Mechanical Utilities	12,909,000	64.00
	G40 Site Electrical Utilities	456,000	2.26
	G90 Other Site Construction	-	-



**South Shore Regional Voc Tech HS**

Hanover, MA

10/18/2023

**PDP Estimate - Add/Reno Construction - Option AR-02 - LIGHTWELL**

<b>COST SUMMARY</b>		<b>Size</b>	<b>201,700 GSF</b>
	<b>Including</b>	<b>New</b>	<b>86,700 GSF</b>
		<b>Reno</b>	<b>115,000 GSF</b>
		<b>Population</b>	<b>750 Student</b>
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	<b>Subtotal Trade</b>	<b>Total</b>	<b>Cost/sf</b>
<b>TOTAL DIRECT COST</b>	<b>\$ 125,993,000</b>	<b>125,993,000</b>	<b>624.66</b>
Modular Classrooms	10,000 GSF	5,500,000	-
Design Contingency	20.00%	25,199,000	
Phasing/Scheduling Premium	1.25%	1,960,000	
CM Contingency	2.50%	3,966,300	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>162,618,300</b>	<b>806.24</b>
General Conditions, CM	8.00%	13,010,000	
General Requirements, CM	4.00%	6,505,000	
Bonds	1.10%	1,789,000	
Insurancess	1.00%	1,627,000	
OH&P, CM	3.50%	5,692,000	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>191,241,300</b>	<b>948.15</b>
Escalation (Through Q3 2028)	27.00%	51,636,000	
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 242,877,300</b>	<b>1,204.15 /GSF</b>



# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - New Construction - Option NC-01 - COURTYARD

COST SUMMARY		Size	240,000 GSF
		Population	805 Student
<b>NEW CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>6,000,000</b>	<b>25.00</b>
A10 Foundations	6,000,000		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>44,400,000</b>	<b>185.00</b>
B10 Superstructure	21,600,000		90.00
B20 Exterior Enclosure	16,800,000		70.00
B30 Roofing	6,000,000		25.00
<b>C INTERIORS</b>		<b>19,920,000</b>	<b>83.00</b>
C10 Interior Construction	10,800,000		45.00
C20 Stairs	720,000		3.00
C30 Interior Finishes	8,400,000		35.00
<b>D SERVICES</b>		<b>54,360,000</b>	<b>226.50</b>
D10 Conveying	600,000		2.50
D20 Plumbing	7,200,000		30.00
D30 HVAC	27,600,000		115.00
D40 Fire Protection	2,160,000		9.00
D50 Electrical	16,800,000		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>6,000,000</b>	<b>25.00</b>
E10 Equipment	3,120,000		13.00
E20 Furnishings	2,880,000		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,200,000</b>	<b>17.50</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,200,000		17.50
<b>G SITEWORK</b>		<b>29,280,000</b>	<b>122.00</b>
G10 Site Preparation	3,360,000		14.00
G20 Site Improvements	12,480,000		52.00
G30 Site Mechanical Utilities	12,960,000		54.00
G40 Site Electrical Utilities	480,000		2.00
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 164,160,000</b>	<b>164,160,000</b>	<b>684.00</b>



**South Shore Regional Voc Tech HS**

10/18/2023

Hanover, MA

**PDP Estimate - New Construction - Option NC-01 - COURTYARD**

<b>COST SUMMARY</b>		<b>Size</b>	<b>240,000 GSF</b>
		<b>Population</b>	<b>805 Student</b>
<b>NEW CONSTRUCTION OPTION</b>			
		<b>Subtotal Trade</b>	<b>Total</b>
		<b>Cost/sf</b>	
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		24,624,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		4,719,600
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>193,503,600</b>	<b>806.27</b>
General Conditions, CM	8.00%		15,481,000
General Requirements, CM	4.00%		7,741,000
Bonds	1.10%		2,129,000
Insurancess	1.00%		1,936,000
OH&P, CM	3.50%		6,773,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>227,563,600</b>	<b>948.18</b>
Escalation (Through Q4 2027)	21.00%		47,789,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 275,352,600</b>	<b>1,147.30 /GSF</b>



# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - New Construction - Option NC-02 - LINEAR

COST SUMMARY		Size	240,000 GSF
		Population	805 Student
<b>NEW CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>6,000,000</b>	<b>25.00</b>
A10 Foundations	6,000,000		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>44,400,000</b>	<b>185.00</b>
B10 Superstructure	21,600,000		90.00
B20 Exterior Enclosure	16,800,000		70.00
B30 Roofing	6,000,000		25.00
<b>C INTERIORS</b>		<b>19,920,000</b>	<b>83.00</b>
C10 Interior Construction	10,800,000		45.00
C20 Stairs	720,000		3.00
C30 Interior Finishes	8,400,000		35.00
<b>D SERVICES</b>		<b>54,360,000</b>	<b>226.50</b>
D10 Conveying	600,000		2.50
D20 Plumbing	7,200,000		30.00
D30 HVAC	27,600,000		115.00
D40 Fire Protection	2,160,000		9.00
D50 Electrical	16,800,000		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>6,000,000</b>	<b>25.00</b>
E10 Equipment	3,120,000		13.00
E20 Furnishings	2,880,000		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,200,000</b>	<b>17.50</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,200,000		17.50
<b>G SITEWORK</b>		<b>29,280,000</b>	<b>122.00</b>
G10 Site Preparation	3,360,000		14.00
G20 Site Improvements	12,480,000		52.00
G30 Site Mechanical Utilities	12,960,000		54.00
G40 Site Electrical Utilities	480,000		2.00
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 164,160,000</b>	<b>164,160,000</b>	<b>684.00</b>



## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - New Construction - Option NC-02 - LINEAR

COST SUMMARY		Size	240,000 GSF
		Population	805 Student
<b>NEW CONSTRUCTION OPTION</b>			
		Subtotal Trade	Total
		Total	Cost/sf
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		24,624,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		4,719,600
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>193,503,600</b>	<b>806.27</b>
General Conditions, CM	8.00%		15,481,000
General Requirements, CM	4.00%		7,741,000
Bonds	1.10%		2,129,000
Insurancess	1.00%		1,936,000
OH&P, CM	3.50%		6,773,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>227,563,600</b>	<b>948.18</b>
Escalation (Through Q4 2027)	21.00%		47,789,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 275,352,600</b>	<b>1,147.30 /GSF</b>





# South Shore Regional Voc Tech HS

Hanover, MA

10/18/2023

## PDP Estimate - New Construction - Option NC-03 - WINGS

COST SUMMARY		Size	240,000 GSF
		Population	805 Student
<b>NEW CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>6,000,000</b>	<b>25.00</b>
A10 Foundations	6,000,000		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>44,400,000</b>	<b>185.00</b>
B10 Superstructure	21,600,000		90.00
B20 Exterior Enclosure	16,800,000		70.00
B30 Roofing	6,000,000		25.00
<b>C INTERIORS</b>		<b>19,920,000</b>	<b>83.00</b>
C10 Interior Construction	10,800,000		45.00
C20 Stairs	720,000		3.00
C30 Interior Finishes	8,400,000		35.00
<b>D SERVICES</b>		<b>54,360,000</b>	<b>226.50</b>
D10 Conveying	600,000		2.50
D20 Plumbing	7,200,000		30.00
D30 HVAC	27,600,000		115.00
D40 Fire Protection	2,160,000		9.00
D50 Electrical	16,800,000		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>6,000,000</b>	<b>25.00</b>
E10 Equipment	3,120,000		13.00
E20 Furnishings	2,880,000		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,200,000</b>	<b>17.50</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,200,000		17.50
<b>G SITEWORK</b>		<b>29,280,000</b>	<b>122.00</b>
G10 Site Preparation	3,360,000		14.00
G20 Site Improvements	12,480,000		52.00
G30 Site Mechanical Utilities	12,960,000		54.00
G40 Site Electrical Utilities	480,000		2.00
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 164,160,000</b>	<b>164,160,000</b>	<b>684.00</b>



**South Shore Regional Voc Tech HS**

Hanover, MA

10/18/2023

**PDP Estimate - New Construction - Option NC-03 - WINGS**

<b>COST SUMMARY</b>		<b>Size</b>	<b>240,000 GSF</b>
		<b>Population</b>	<b>805 Student</b>
<b>NEW CONSTRUCTION OPTION</b>			
		<b>Subtotal Trade</b>	<b>Total</b>
		<b>Cost/sf</b>	
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		24,624,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		4,719,600
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>193,503,600</b>	<b>806.27</b>
General Conditions, CM	8.00%		15,481,000
General Requirements, CM	4.00%		7,741,000
Bonds	1.10%		2,129,000
Insurancess	1.00%		1,936,000
OH&P, CM	3.50%		6,773,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>227,563,600</b>	<b>948.18</b>
Escalation (Through Q4 2027)	21.00%		47,789,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 275,352,600</b>	<b>1,147.30 /GSF</b>



# South Shore Regional Voc Tech HS

Hanover, MA

10/18/2023

## PDP Estimate - Add/Reno Construction - Option AR-01 - L SHAPE

COST SUMMARY		Size	230,400 GSF
	Including	New	122,400 GSF
		Reno	108,000 GSF
	Population		805 Student
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A</b>	<b>SUBSTRUCTURE</b>	<b>3,384,000</b>	<b>14.69</b>
	A10 Foundations	3,384,000	14.69
	A20 Basement Construction	-	-
<b>B</b>	<b>SHELL</b>	<b>31,284,000</b>	<b>135.78</b>
	B10 Superstructure	12,096,000	52.50
	B20 Exterior Enclosure	13,428,000	58.28
	B30 Roofing	5,760,000	25.00
<b>C</b>	<b>INTERIORS</b>	<b>19,016,000</b>	<b>82.53</b>
	C10 Interior Construction	10,476,000	45.47
	C20 Stairs	476,000	2.07
	C30 Interior Finishes	8,064,000	35.00
<b>D</b>	<b>SERVICES</b>	<b>51,700,000</b>	<b>224.39</b>
	D10 Conveying	306,000	1.33
	D20 Plumbing	6,912,000	30.00
	D30 HVAC	26,496,000	115.00
	D40 Fire Protection	1,858,000	8.06
	D50 Electrical	16,128,000	70.00
<b>E</b>	<b>FITTINGS &amp; FIXED EQUIPMENT</b>	<b>5,761,000</b>	<b>25.00</b>
	E10 Equipment	2,996,000	13.00
	E20 Furnishings	2,765,000	12.00
<b>F</b>	<b>SPECIAL CONSTRUCTION &amp; DEMOLITION</b>	<b>2,160,000</b>	<b>9.38</b>
	F10 Special Construction	-	-
	F20 Selective Building Demolition	2,160,000	9.38
<b>G</b>	<b>SITework</b>	<b>29,353,000</b>	<b>127.40</b>
	G10 Site Preparation	3,312,000	14.38
	G20 Site Improvements	12,557,000	54.50
	G30 Site Mechanical Utilities	12,995,000	56.40
	G40 Site Electrical Utilities	489,000	2.12
	G90 Other Site Construction	-	-



**South Shore Regional Voc Tech HS**

10/18/2023

Hanover, MA

**PDP Estimate - Add/Reno Construction - Option AR-01 - L SHAPE**

<b>COST SUMMARY</b>		<b>Size</b>	<b>230,400 GSF</b>
	<b>Including</b>	<b>New</b>	<b>122,400 GSF</b>
		<b>Reno</b>	<b>108,000 GSF</b>
		<b>Population</b>	<b>805 Student</b>
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	<b>Subtotal Trade</b>	<b>Total</b>	<b>Cost/sf</b>
<b>TOTAL DIRECT COST</b>	<b>\$ 142,658,000</b>	<b>142,658,000</b>	<b>619.18</b>
Modular Classrooms		17,000 GSF 9,350,000	-
Design Contingency	20.00%	28,532,000	
Phasing/Scheduling Premium	1.25%	2,260,000	
CM Contingency	2.50%	4,570,000	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>187,370,000</b>	<b>813.24</b>
General Conditions, CM	8.00%	14,990,000	
General Requirements, CM	4.00%	7,495,000	
Bonds	1.10%	2,062,000	
Insurancess	1.00%	1,874,000	
OH&P, CM	3.50%	6,558,000	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>220,349,000</b>	<b>956.38</b>
Escalation (Through Q3 2028)	27.00%	59,495,000	
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 279,844,000</b>	<b>1,214.60 /GSF</b>



## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - Add/Reno Construction - Option AR-02 - LIGHTWELL

COST SUMMARY		Size	209,600 GSF
	<b>Including</b>	<b>New</b>	<b>94,600 GSF</b>
		<b>Reno</b>	<b>115,000 GSF</b>
		<b>Population</b>	<b>805 Student</b>
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	<b>Subtotal Trade</b>	<b>Total</b>	<b>Cost/sf</b>
<b>A SUBSTRUCTURE</b>		<b>2,710,000</b>	<b>12.93</b>
A10 Foundations	2,710,000		12.93
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>26,701,000</b>	<b>127.39</b>
B10 Superstructure	9,664,000		46.11
B20 Exterior Enclosure	11,797,000		56.28
B30 Roofing	5,240,000		25.00
<b>C INTERIORS</b>		<b>17,282,000</b>	<b>82.45</b>
C10 Interior Construction	9,547,000		45.55
C20 Stairs	399,000		1.90
C30 Interior Finishes	7,336,000		35.00
<b>D SERVICES</b>		<b>46,958,000</b>	<b>224.04</b>
D10 Conveying	237,000		1.13
D20 Plumbing	6,288,000		30.00
D30 HVAC	24,104,000		115.00
D40 Fire Protection	1,657,000		7.91
D50 Electrical	14,672,000		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>5,241,000</b>	<b>25.00</b>
E10 Equipment	2,725,000		13.00
E20 Furnishings	2,516,000		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>2,300,000</b>	<b>10.97</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	2,300,000		10.97
<b>G SITEWORK</b>		<b>29,367,000</b>	<b>140.11</b>
G10 Site Preparation	3,306,000		15.77
G20 Site Improvements	12,576,000		60.00
G30 Site Mechanical Utilities	12,996,000		62.00
G40 Site Electrical Utilities	489,000		2.33
G90 Other Site Construction	-		-



**South Shore Regional Voc Tech HS**

Hanover, MA

10/18/2023

**PDP Estimate - Add/Reno Construction - Option AR-02 - LIGHTWELL**

<b>COST SUMMARY</b>		<b>Size</b>	<b>209,600 GSF</b>
	<b>Including</b>	<b>New</b>	<b>94,600 GSF</b>
		<b>Reno</b>	<b>115,000 GSF</b>
		<b>Population</b>	<b>805 Student</b>
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	<b>Subtotal Trade</b>	<b>Total</b>	<b>Cost/sf</b>
<b>TOTAL DIRECT COST</b>			
	<b>\$ 130,559,000</b>	<b>130,559,000</b>	<b>622.90</b>
Modular Classrooms	10,000 GSF	5,500,000	-
Design Contingency	20.00%	26,112,000	
Phasing/Scheduling Premium	1.25%	2,030,000	
CM Contingency	2.50%	4,105,100	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>168,306,100</b>	<b>802.99</b>
General Conditions, CM	8.00%	13,465,000	
General Requirements, CM	4.00%	6,733,000	
Bonds	1.10%	1,852,000	
Insurancess	1.00%	1,684,000	
OH&P, CM	3.50%	5,891,000	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>197,931,100</b>	<b>944.33</b>
Escalation (Through Q3 2028)	27.00%	53,442,000	
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 251,373,100</b>	<b>1,199.30 /GSF</b>



## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - New Construction - Option NC-01 - COURTYARD

COST SUMMARY		Size	260,000 GSF
		Population	900 Student
		NEW CONSTRUCTION OPTION	
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>6,500,000</b>	<b>25.00</b>
A10 Foundations	6,500,000		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>48,100,000</b>	<b>185.00</b>
B10 Superstructure	23,400,000		90.00
B20 Exterior Enclosure	18,200,000		70.00
B30 Roofing	6,500,000		25.00
<b>C INTERIORS</b>		<b>21,580,000</b>	<b>83.00</b>
C10 Interior Construction	11,700,000		45.00
C20 Stairs	780,000		3.00
C30 Interior Finishes	9,100,000		35.00
<b>D SERVICES</b>		<b>58,890,000</b>	<b>226.50</b>
D10 Conveying	650,000		2.50
D20 Plumbing	7,800,000		30.00
D30 HVAC	29,900,000		115.00
D40 Fire Protection	2,340,000		9.00
D50 Electrical	18,200,000		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>6,500,000</b>	<b>25.00</b>
E10 Equipment	3,380,000		13.00
E20 Furnishings	3,120,000		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,290,000</b>	<b>16.50</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,290,000		16.50
<b>G SITEWORK</b>		<b>29,614,000</b>	<b>113.90</b>
G10 Site Preparation	3,380,000		13.00
G20 Site Improvements	12,740,000		49.00
G30 Site Mechanical Utilities	13,000,000		50.00
G40 Site Electrical Utilities	494,000		1.90
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 175,474,000</b>	<b>175,474,000</b>	<b>674.90</b>



**South Shore Regional Voc Tech HS**

Hanover, MA

10/18/2023

**PDP Estimate - New Construction - Option NC-01 - COURTYARD**

<b>COST SUMMARY</b>		<b>Size</b>	<b>260,000 GSF</b>
		<b>Population</b>	<b>900 Student</b>
<b>NEW CONSTRUCTION OPTION</b>			
		<b>Subtotal Trade</b>	<b>Total</b>
		<b>Cost/sf</b>	
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		26,322,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		5,044,900
<b>Subtotal - Direct Construction Cost + Contingencies</b>			<b>206,840,900</b>
			<b>795.54</b>
General Conditions, CM	8.00%		16,548,000
General Requirements, CM	4.00%		8,274,000
Bonds	1.10%		2,276,000
Insurancess	1.00%		2,069,000
OH&P, CM	3.50%		7,240,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>			<b>243,247,900</b>
			<b>935.57</b>
Escalation (Through Q4 2027)	21.00%		51,083,000
			196.47
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>			<b>\$ 294,330,900</b>
			<b>1,132.04 /GSF</b>





## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - New Construction - Option NC-02 - LINEAR

COST SUMMARY		Size	260,000 GSF
		Population	900 Student
		NEW CONSTRUCTION OPTION	
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>6,500,000</b>	<b>25.00</b>
A10 Foundations	6,500,000		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>48,100,000</b>	<b>185.00</b>
B10 Superstructure	23,400,000		90.00
B20 Exterior Enclosure	18,200,000		70.00
B30 Roofing	6,500,000		25.00
<b>C INTERIORS</b>		<b>21,580,000</b>	<b>83.00</b>
C10 Interior Construction	11,700,000		45.00
C20 Stairs	780,000		3.00
C30 Interior Finishes	9,100,000		35.00
<b>D SERVICES</b>		<b>58,890,000</b>	<b>226.50</b>
D10 Conveying	650,000		2.50
D20 Plumbing	7,800,000		30.00
D30 HVAC	29,900,000		115.00
D40 Fire Protection	2,340,000		9.00
D50 Electrical	18,200,000		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>6,500,000</b>	<b>25.00</b>
E10 Equipment	3,380,000		13.00
E20 Furnishings	3,120,000		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,290,000</b>	<b>16.50</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,290,000		16.50
<b>G SITEWORK</b>		<b>29,614,000</b>	<b>113.90</b>
G10 Site Preparation	3,380,000		13.00
G20 Site Improvements	12,740,000		49.00
G30 Site Mechanical Utilities	13,000,000		50.00
G40 Site Electrical Utilities	494,000		1.90
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 175,474,000</b>	<b>175,474,000</b>	<b>674.90</b>



## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - New Construction - Option NC-02 - LINEAR

COST SUMMARY		Size	260,000 GSF
		Population	900 Student
<b>NEW CONSTRUCTION OPTION</b>			
		Subtotal Trade	Total
		Total	Cost/sf
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		26,322,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		5,044,900
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>206,840,900</b>	<b>795.54</b>
General Conditions, CM	8.00%		16,548,000
General Requirements, CM	4.00%		8,274,000
Bonds	1.10%		2,276,000
Insurancess	1.00%		2,069,000
OH&P, CM	3.50%		7,240,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>243,247,900</b>	<b>935.57</b>
Escalation (Through Q4 2027)	21.00%		51,083,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 294,330,900</b>	<b>1,132.04 /GSF</b>



# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - New Construction - Option NC-03 - WINGS

COST SUMMARY		Size	260,000 GSF
		Population	900 Student
<b>NEW CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>6,500,000</b>	<b>25.00</b>
A10 Foundations	6,500,000		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>48,100,000</b>	<b>185.00</b>
B10 Superstructure	23,400,000		90.00
B20 Exterior Enclosure	18,200,000		70.00
B30 Roofing	6,500,000		25.00
<b>C INTERIORS</b>		<b>21,580,000</b>	<b>83.00</b>
C10 Interior Construction	11,700,000		45.00
C20 Stairs	780,000		3.00
C30 Interior Finishes	9,100,000		35.00
<b>D SERVICES</b>		<b>58,890,000</b>	<b>226.50</b>
D10 Conveying	650,000		2.50
D20 Plumbing	7,800,000		30.00
D30 HVAC	29,900,000		115.00
D40 Fire Protection	2,340,000		9.00
D50 Electrical	18,200,000		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>6,500,000</b>	<b>25.00</b>
E10 Equipment	3,380,000		13.00
E20 Furnishings	3,120,000		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,290,000</b>	<b>16.50</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,290,000		16.50
<b>G SITEWORK</b>		<b>29,614,000</b>	<b>113.90</b>
G10 Site Preparation	3,380,000		13.00
G20 Site Improvements	12,740,000		49.00
G30 Site Mechanical Utilities	13,000,000		50.00
G40 Site Electrical Utilities	494,000		1.90
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 175,474,000</b>	<b>175,474,000</b>	<b>674.90</b>



**South Shore Regional Voc Tech HS**

Hanover, MA

10/18/2023

**PDP Estimate - New Construction - Option NC-03 - WINGS**

<b>COST SUMMARY</b>		<b>Size</b>	<b>260,000 GSF</b>
		<b>Population</b>	<b>900 Student</b>
<b>NEW CONSTRUCTION OPTION</b>			
		<b>Subtotal Trade</b>	<b>Total</b>
		<b>Cost/sf</b>	
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		26,322,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		5,044,900
<b>Subtotal - Direct Construction Cost + Contingencies</b>			<b>206,840,900</b>
			<b>795.54</b>
General Conditions, CM	8.00%		16,548,000
General Requirements, CM	4.00%		8,274,000
Bonds	1.10%		2,276,000
Insurancess	1.00%		2,069,000
OH&P, CM	3.50%		7,240,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>			<b>243,247,900</b>
			<b>935.57</b>
Escalation (Through Q4 2027)	21.00%		51,083,000
			196.47
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>			<b>\$ 294,330,900</b>
			<b>1,132.04 /GSF</b>



**PDP Estimate - Add/Reno Construction - Option AR-01 - L SHAPE**

<b>COST SUMMARY</b>		<b>Size</b>	<b>243,200 GSF</b>
	<b>Including</b>	<b>New</b>	<b>135,200 GSF</b>
		<b>Reno</b>	<b>108,000 GSF</b>
	<b>Population</b>		<b>900 Student</b>
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	<b>Subtotal Trade</b>	<b>Total</b>	<b>Cost/sf</b>
<b>A</b>	<b>SUBSTRUCTURE</b>	<b>3,704,000</b>	<b>15.23</b>
	A10 Foundations	3,704,000	15.23
	A20 Basement Construction	-	-
			\$ -
<b>B</b>	<b>SHELL</b>	<b>33,652,000</b>	<b>138.37</b>
	B10 Superstructure	13,248,000	54.47
	B20 Exterior Enclosure	14,324,000	58.90
	B30 Roofing	6,080,000	25.00
<b>C</b>	<b>INTERIORS</b>	<b>20,078,000</b>	<b>82.56</b>
	C10 Interior Construction	11,052,000	45.44
	C20 Stairs	514,000	2.11
	C30 Interior Finishes	8,512,000	35.00
<b>D</b>	<b>SERVICES</b>	<b>54,599,000</b>	<b>224.50</b>
	D10 Conveying	338,000	1.39
	D20 Plumbing	7,296,000	30.00
	D30 HVAC	27,968,000	115.00
	D40 Fire Protection	1,973,000	8.11
	D50 Electrical	17,024,000	70.00
<b>E</b>	<b>FITTINGS &amp; FIXED EQUIPMENT</b>	<b>6,081,000</b>	<b>25.00</b>
	E10 Equipment	3,162,000	13.00
	E20 Furnishings	2,919,000	12.00
<b>F</b>	<b>SPECIAL CONSTRUCTION &amp; DEMOLITION</b>	<b>2,160,000</b>	<b>8.88</b>
	F10 Special Construction	-	-
	F20 Selective Building Demolition	2,160,000	8.88
<b>G</b>	<b>SITWORK</b>	<b>29,675,000</b>	<b>122.02</b>
	G10 Site Preparation	3,388,000	13.93
	G20 Site Improvements	12,768,000	52.50
	G30 Site Mechanical Utilities	13,025,000	53.56
	G40 Site Electrical Utilities	494,000	2.03
	G90 Other Site Construction	-	-



## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - Add/Reno Construction - Option AR-01 - L SHAPE

COST SUMMARY		Size	243,200 GSF
	Including	New	135,200 GSF
		Reno	108,000 GSF
		Population	900 Student
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>TOTAL DIRECT COST</b>		<b>\$ 149,949,000</b>	<b>149,949,000</b>
			<b>616.57</b>
Modular Classrooms		17,000 GSF	9,350,000
Design Contingency	20.00%		29,990,000
Phasing/Scheduling Premium	1.25%		2,370,000
CM Contingency	2.50%		4,791,500
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>196,450,500</b>	<b>807.77</b>
General Conditions, CM	8.00%		15,717,000
General Requirements, CM	4.00%		7,859,000
Bonds	1.10%		2,161,000
Insurancess	1.00%		1,965,000
OH&P, CM	3.50%		6,876,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>231,028,500</b>	<b>949.95</b>
Escalation (Through Q3 2028)	27.00%		62,378,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 293,406,500</b>	<b>1,206.44 /GSF</b>



# South Shore Regional Voc Tech HS

Hanover, MA

10/18/2023

## PDP Estimate - Add/Reno Construction - Option AR-02 - LIGHTWELL

COST SUMMARY		Size	228,500 GSF
	Including	New	113,500 GSF
		Reno	115,000 GSF
	Population		900 Student
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A</b>	<b>SUBSTRUCTURE</b>	<b>3,183,000</b>	<b>13.93</b>
	A10 Foundations	3,183,000	13.93
	A20 Basement Construction	-	-
			\$ -
<b>B</b>	<b>SHELL</b>	<b>30,198,000</b>	<b>132.16</b>
	B10 Superstructure	11,365,000	49.74
	B20 Exterior Enclosure	13,120,000	57.42
	B30 Roofing	5,713,000	25.00
<b>C</b>	<b>INTERIORS</b>	<b>18,852,000</b>	<b>82.50</b>
	C10 Interior Construction	10,398,000	45.51
	C20 Stairs	456,000	2.00
	C30 Interior Finishes	7,998,000	35.00
<b>D</b>	<b>SERVICES</b>	<b>51,239,000</b>	<b>224.24</b>
	D10 Conveying	284,000	1.24
	D20 Plumbing	6,855,000	30.00
	D30 HVAC	26,278,000	115.00
	D40 Fire Protection	1,827,000	8.00
	D50 Electrical	15,995,000	70.00
<b>E</b>	<b>FITTINGS &amp; FIXED EQUIPMENT</b>	<b>5,713,000</b>	<b>25.00</b>
	E10 Equipment	2,971,000	13.00
	E20 Furnishings	2,742,000	12.00
<b>F</b>	<b>SPECIAL CONSTRUCTION &amp; DEMOLITION</b>	<b>2,300,000</b>	<b>10.07</b>
	F10 Special Construction	-	-
	F20 Selective Building Demolition	2,300,000	10.07
<b>G</b>	<b>SITWORK</b>	<b>29,672,000</b>	<b>129.86</b>
	G10 Site Preparation	3,380,000	14.79
	G20 Site Improvements	12,796,000	56.00
	G30 Site Mechanical Utilities	13,002,000	56.90
	G40 Site Electrical Utilities	494,000	2.16
	G90 Other Site Construction	-	-



# South Shore Regional Voc Tech HS

Hanover, MA

10/18/2023

## PDP Estimate - Add/Reno Construction - Option AR-02 - LIGHTWELL

COST SUMMARY		Size	228,500 GSF
	Including	New	113,500 GSF
		Reno	115,000 GSF
		Population	900 Student
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>TOTAL DIRECT COST</b>	<b>\$ 141,157,000</b>	<b>141,157,000</b>	<b>617.75</b>
Modular Classrooms	10,000 GSF	5,500,000	-
Design Contingency	20.00%	28,232,000	
Phasing/Scheduling Premium	1.25%	2,190,000	
CM Contingency	2.50%	4,427,000	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>181,506,000</b>	<b>794.34</b>
General Conditions, CM	8.00%	14,521,000	
General Requirements, CM	4.00%	7,261,000	
Bonds	1.10%	1,997,000	
Insurancess	1.00%	1,816,000	
OH&P, CM	3.50%	6,353,000	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>213,454,000</b>	<b>934.15</b>
Escalation (Through Q3 2028)	27.00%	57,633,000	
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 271,087,000</b>	<b>1,186.38 /GSF</b>





# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - New Construction - Option NC-01 - COURTYARD

COST SUMMARY		Size	278,000 GSF
		Population	975 Student
<b>NEW CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>6,950,000</b>	<b>25.00</b>
A10 Foundations	6,950,000		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>51,430,000</b>	<b>185.00</b>
B10 Superstructure	25,020,000		90.00
B20 Exterior Enclosure	19,460,000		70.00
B30 Roofing	6,950,000		25.00
<b>C INTERIORS</b>		<b>23,074,000</b>	<b>83.00</b>
C10 Interior Construction	12,510,000		45.00
C20 Stairs	834,000		3.00
C30 Interior Finishes	9,730,000		35.00
<b>D SERVICES</b>		<b>62,967,000</b>	<b>226.50</b>
D10 Conveying	695,000		2.50
D20 Plumbing	8,340,000		30.00
D30 HVAC	31,970,000		115.00
D40 Fire Protection	2,502,000		9.00
D50 Electrical	19,460,000		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>6,950,000</b>	<b>25.00</b>
E10 Equipment	3,614,000		13.00
E20 Furnishings	3,336,000		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,309,000</b>	<b>15.50</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,309,000		15.50
<b>G SITEWORK</b>		<b>29,912,800</b>	<b>107.60</b>
G10 Site Preparation	3,558,400		12.80
G20 Site Improvements	12,788,000		46.00
G30 Site Mechanical Utilities	13,066,000		47.00
G40 Site Electrical Utilities	500,400		1.80
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 185,592,800</b>	<b>185,592,800</b>	<b>667.60</b>



## South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

### PDP Estimate - New Construction - Option NC-01 - COURTYARD

COST SUMMARY		Size	278,000 GSF
		Population	975 Student
<b>NEW CONSTRUCTION OPTION</b>			
		Subtotal Trade	Total
		Total	Cost/sf
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		27,839,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		5,335,800
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>218,767,600</b>	<b>786.93</b>
General Conditions, CM	8.00%		17,502,000
General Requirements, CM	4.00%		8,751,000
Bonds	1.10%		2,407,000
Insurancess	1.00%		2,188,000
OH&P, CM	3.50%		7,657,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>257,272,600</b>	<b>925.44</b>
Escalation (Through Q4 2027)	21.00%		54,028,000
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 311,300,600</b>	<b>1,119.79 /GSF</b>



# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - New Construction - Option NC-02 - LINEAR

COST SUMMARY		Size	278,000 GSF
		Population	975 Student
<b>NEW CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A</b>	<b>SUBSTRUCTURE</b>	<b>6,950,000</b>	<b>25.00</b>
	A10 Foundations	6,950,000	25.00
	A20 Basement Construction	-	-
<b>B</b>	<b>SHELL</b>	<b>51,430,000</b>	<b>185.00</b>
	B10 Superstructure	25,020,000	90.00
	B20 Exterior Enclosure	19,460,000	70.00
	B30 Roofing	6,950,000	25.00
<b>C</b>	<b>INTERIORS</b>	<b>23,074,000</b>	<b>83.00</b>
	C10 Interior Construction	12,510,000	45.00
	C20 Stairs	834,000	3.00
	C30 Interior Finishes	9,730,000	35.00
<b>D</b>	<b>SERVICES</b>	<b>62,967,000</b>	<b>226.50</b>
	D10 Conveying	695,000	2.50
	D20 Plumbing	8,340,000	30.00
	D30 HVAC	31,970,000	115.00
	D40 Fire Protection	2,502,000	9.00
	D50 Electrical	19,460,000	70.00
<b>E</b>	<b>FITTINGS &amp; FIXED EQUIPMENT</b>	<b>6,950,000</b>	<b>25.00</b>
	E10 Equipment	3,614,000	13.00
	E20 Furnishings	3,336,000	12.00
<b>F</b>	<b>SPECIAL CONSTRUCTION &amp; DEMOLITION</b>	<b>4,587,000</b>	<b>16.50</b>
	F10 Special Construction	-	-
	F20 Selective Building Demolition	4,587,000	16.50
<b>G</b>	<b>SITWORK</b>	<b>29,912,800</b>	<b>107.60</b>
	G10 Site Preparation	3,558,400	12.80
	G20 Site Improvements	12,788,000	46.00
	G30 Site Mechanical Utilities	13,066,000	47.00
	G40 Site Electrical Utilities	500,400	1.80
	G90 Other Site Construction	-	-
<b>TOTAL DIRECT COST</b>		<b>\$ 185,870,800</b>	<b>185,870,800</b>
			<b>668.60</b>



**South Shore Regional Voc Tech HS**

Hanover, MA

10/18/2023

**PDP Estimate - New Construction - Option NC-02 - LINEAR**

<b>COST SUMMARY</b>		<b>Size</b>	<b>278,000 GSF</b>
		<b>Population</b>	<b>975 Student</b>
<b>NEW CONSTRUCTION OPTION</b>			
		<b>Subtotal Trade</b>	<b>Total</b>
		<b>Cost/sf</b>	
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		27,881,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		5,343,800
<b>Subtotal - Direct Construction Cost + Contingencies</b>			<b>219,095,600</b>
			<b>788.11</b>
General Conditions, CM	8.00%		17,528,000
General Requirements, CM	4.00%		8,764,000
Bonds	1.10%		2,411,000
Insurancess	1.00%		2,191,000
OH&P, CM	3.50%		7,669,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>			<b>257,658,600</b>
			<b>926.83</b>
Escalation (Through Q4 2027)	21.00%		54,109,000
			194.64
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>			<b>\$ 311,767,600</b>
			<b>1,121.47 /GSF</b>



# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - New Construction - Option NC-03 - WINGS

COST SUMMARY		Size	278,000 GSF
		Population	975 Student
<b>NEW CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>6,950,000</b>	<b>25.00</b>
A10 Foundations	6,950,000		25.00
A20 Basement Construction	-		-
<b>B SHELL</b>		<b>51,430,000</b>	<b>185.00</b>
B10 Superstructure	25,020,000		90.00
B20 Exterior Enclosure	19,460,000		70.00
B30 Roofing	6,950,000		25.00
<b>C INTERIORS</b>		<b>23,074,000</b>	<b>83.00</b>
C10 Interior Construction	12,510,000		45.00
C20 Stairs	834,000		3.00
C30 Interior Finishes	9,730,000		35.00
<b>D SERVICES</b>		<b>62,967,000</b>	<b>226.50</b>
D10 Conveying	695,000		2.50
D20 Plumbing	8,340,000		30.00
D30 HVAC	31,970,000		115.00
D40 Fire Protection	2,502,000		9.00
D50 Electrical	19,460,000		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>6,950,000</b>	<b>25.00</b>
E10 Equipment	3,614,000		13.00
E20 Furnishings	3,336,000		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>4,587,000</b>	<b>16.50</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	4,587,000		16.50
<b>G SITEWORK</b>		<b>29,912,800</b>	<b>107.60</b>
G10 Site Preparation	3,558,400		12.80
G20 Site Improvements	12,788,000		46.00
G30 Site Mechanical Utilities	13,066,000		47.00
G40 Site Electrical Utilities	500,400		1.80
G90 Other Site Construction	-		-
<b>TOTAL DIRECT COST</b>	<b>\$ 185,870,800</b>	<b>185,870,800</b>	<b>668.60</b>



**South Shore Regional Voc Tech HS**

10/18/2023

Hanover, MA

**PDP Estimate - New Construction - Option NC-03 - WINGS**

<b>COST SUMMARY</b>		<b>Size</b>	<b>278,000 GSF</b>
		<b>Population</b>	<b>975 Student</b>
<b>NEW CONSTRUCTION OPTION</b>			
		<b>Subtotal Trade</b>	<b>Total</b>
		<b>Cost/sf</b>	
Modular Classrooms		0 GSF	-
Design Contingency	15.00%		27,881,000
Phasing/Scheduling Premium	0.00%		-
CM Contingency	2.50%		5,343,800
<b>Subtotal - Direct Construction Cost + Contingencies</b>			<b>219,095,600</b>
			<b>788.11</b>
General Conditions, CM	8.00%		17,528,000
General Requirements, CM	4.00%		8,764,000
Bonds	1.10%		2,411,000
Insurancess	1.00%		2,191,000
OH&P, CM	3.50%		7,669,000
<b>Subtotal - Direct Construction Cost + Contingencies</b>			<b>257,658,600</b>
			<b>926.83</b>
Escalation (Through Q4 2027)	21.00%		54,109,000
			194.64
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>			<b>\$ 311,767,600</b>
			<b>1,121.47 /GSF</b>



# South Shore Regional Voc Tech HS

Hanover, MA

10/18/2023

## PDP Estimate - Add/Reno Construction - Option AR-01 - L SHAPE

COST SUMMARY		Size	254,500 GSF
	Including	New	153,500 GSF
		Reno	101,000 GSF
	Population		975 Student
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	Subtotal Trade	Total	Cost/sf
<b>A</b>	<b>SUBSTRUCTURE</b>	<b>4,141,000</b>	<b>16.27</b>
	A10 Foundations	4,141,000	16.27
	A20 Basement Construction	-	-
			\$ -
<b>B</b>	<b>SHELL</b>	<b>36,478,000</b>	<b>143.33</b>
	B10 Superstructure	14,825,000	58.25
	B20 Exterior Enclosure	15,290,000	60.08
	B30 Roofing	6,363,000	25.00
<b>C</b>	<b>INTERIORS</b>	<b>21,024,000</b>	<b>82.61</b>
	C10 Interior Construction	11,554,000	45.40
	C20 Stairs	562,000	2.21
	C30 Interior Finishes	8,908,000	35.00
<b>D</b>	<b>SERVICES</b>	<b>57,191,000</b>	<b>224.72</b>
	D10 Conveying	384,000	1.51
	D20 Plumbing	7,635,000	30.00
	D30 HVAC	29,268,000	115.00
	D40 Fire Protection	2,089,000	8.21
	D50 Electrical	17,815,000	70.00
<b>E</b>	<b>FITTINGS &amp; FIXED EQUIPMENT</b>	<b>6,363,000</b>	<b>25.00</b>
	E10 Equipment	3,309,000	13.00
	E20 Furnishings	3,054,000	12.00
<b>F</b>	<b>SPECIAL CONSTRUCTION &amp; DEMOLITION</b>	<b>2,020,000</b>	<b>7.94</b>
	F10 Special Construction	-	-
	F20 Selective Building Demolition	2,020,000	7.94
<b>G</b>	<b>SITWORK</b>	<b>30,007,000</b>	<b>117.91</b>
	G10 Site Preparation	3,563,000	14.00
	G20 Site Improvements	12,802,000	50.30
	G30 Site Mechanical Utilities	13,133,000	51.60
	G40 Site Electrical Utilities	509,000	2.00
	G90 Other Site Construction	-	-



**South Shore Regional Voc Tech HS**

10/18/2023

Hanover, MA

**PDP Estimate - Add/Reno Construction - Option AR-01 - L SHAPE**

<b>COST SUMMARY</b>		<b>Size</b>	<b>254,500 GSF</b>
	<b>Including</b>	<b>New</b>	<b>153,500 GSF</b>
		<b>Reno</b>	<b>101,000 GSF</b>
		<b>Population</b>	<b>975 Student</b>
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	<b>Subtotal Trade</b>	<b>Total</b>	<b>Cost/sf</b>
<b>TOTAL DIRECT COST</b>			
	<b>\$ 157,224,000</b>	<b>157,224,000</b>	<b>617.78</b>
Modular Classrooms	24,000 GSF	13,200,000	-
Design Contingency	20.00%	31,445,000	
Phasing/Scheduling Premium	1.25%	2,530,000	
CM Contingency	2.50%	5,110,000	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>209,509,000</b>	<b>823.22</b>
General Conditions, CM	8.00%	16,761,000	
General Requirements, CM	4.00%	8,381,000	
Bonds	1.10%	2,305,000	
Insurancess	1.00%	2,096,000	
OH&P, CM	3.50%	7,333,000	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>246,385,000</b>	<b>968.11</b>
Escalation (Through Q3 2028)	27.00%	66,524,000	
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 312,909,000</b>	<b>1,229.50 /GSF</b>





# South Shore Regional Voc Tech HS

10/18/2023

Hanover, MA

## PDP Estimate - Add/Reno Construction - Option AR-02 - LIGHTWELL

COST SUMMARY		Size	236,100 GSF
	Including	New	121,100 GSF
		Reno	115,000 GSF
		Population	975 Student
ADD/RENO CONSTRUCTION OPTION			
	Subtotal Trade	Total	Cost/sf
<b>A SUBSTRUCTURE</b>		<b>3,373,000</b>	<b>14.29</b>
A10 Foundations	3,373,000		14.29
A20 Basement Construction	-		-
		\$	-
<b>B SHELL</b>		<b>31,604,000</b>	<b>133.86</b>
B10 Superstructure	12,049,000		51.03
B20 Exterior Enclosure	13,652,000		57.82
B30 Roofing	5,903,000		25.00
<b>C INTERIORS</b>		<b>19,483,000</b>	<b>82.52</b>
C10 Interior Construction	10,740,000		45.49
C20 Stairs	479,000		2.03
C30 Interior Finishes	8,264,000		35.00
<b>D SERVICES</b>		<b>52,960,000</b>	<b>224.31</b>
D10 Conveying	303,000		1.28
D20 Plumbing	7,083,000		30.00
D30 HVAC	27,152,000		115.00
D40 Fire Protection	1,895,000		8.03
D50 Electrical	16,527,000		70.00
<b>E FITTINGS &amp; FIXED EQUIPMENT</b>		<b>5,904,000</b>	<b>25.01</b>
E10 Equipment	3,070,000		13.00
E20 Furnishings	2,834,000		12.00
<b>F SPECIAL CONSTRUCTION &amp; DEMOLITION</b>		<b>2,300,000</b>	<b>9.74</b>
F10 Special Construction	-		-
F20 Selective Building Demolition	2,300,000		9.74
<b>G SITEWORK</b>		<b>30,048,000</b>	<b>127.27</b>
G10 Site Preparation	3,568,000		15.11
G20 Site Improvements	12,868,000		54.50
G30 Site Mechanical Utilities	13,104,000		55.50
G40 Site Electrical Utilities	508,000		2.15
G90 Other Site Construction	-		-



**South Shore Regional Voc Tech HS**

10/18/2023

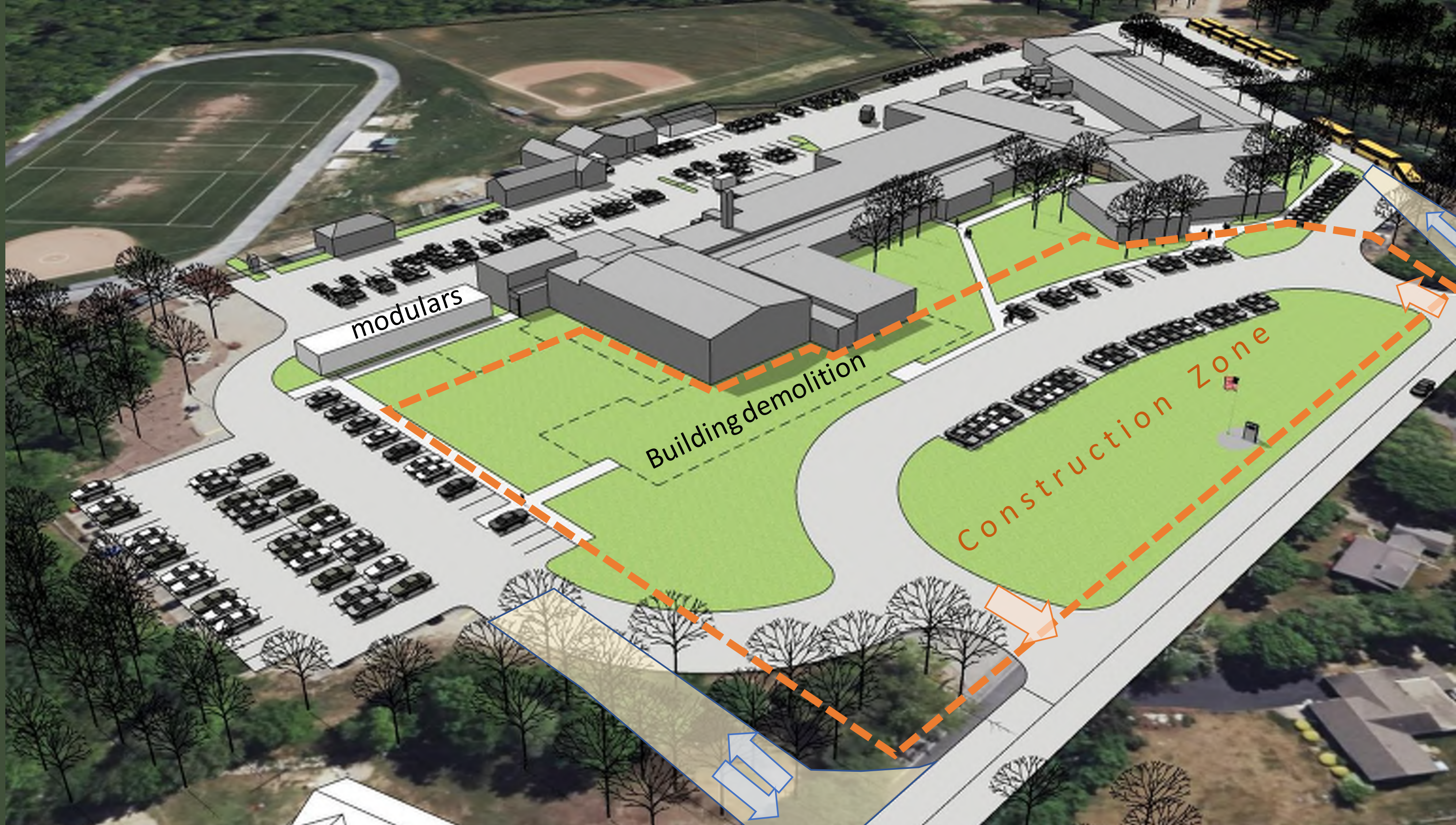
Hanover, MA

**PDP Estimate - Add/Reno Construction - Option AR-02 - LIGHTWELL**

<b>COST SUMMARY</b>		<b>Size</b>	<b>236,100 GSF</b>
	<b>Including</b>	<b>New</b>	<b>121,100 GSF</b>
		<b>Reno</b>	<b>115,000 GSF</b>
		<b>Population</b>	<b>975 Student</b>
<b>ADD/RENO CONSTRUCTION OPTION</b>			
	<b>Subtotal Trade</b>	<b>Total</b>	<b>Cost/sf</b>
<b>TOTAL DIRECT COST</b>	<b>\$ 145,672,000</b>	<b>145,672,000</b>	<b>616.99</b>
Modular Classrooms	10,000 GSF	5,500,000	-
Design Contingency	20.00%	29,135,000	
Phasing/Scheduling Premium	1.25%	2,260,000	
CM Contingency	2.50%	4,564,200	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>187,131,200</b>	<b>792.59</b>
General Conditions, CM	8.00%	14,971,000	
General Requirements, CM	4.00%	7,486,000	
Bonds	1.10%	2,059,000	
Insurancess	1.00%	1,872,000	
OH&P, CM	3.50%	6,550,000	
<b>Subtotal - Direct Construction Cost + Contingencies</b>		<b>220,069,200</b>	<b>932.10</b>
Escalation (Through Q3 2028)	27.00%	59,419,000	
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 279,488,200</b>	<b>1,183.77 /GSF</b>







Addition/Renovation Option Proposed Construction Phasing





## OPTION AR-1 “L – shaped” Addition

### Description:

This option proposes a two-story addition across the front of the school and wrapping around to the east of the Gym along with the full renovation of the existing school. Depending upon the selected enrollment, a small addition to the existing cafeteria is also proposed.

The first phase of the project would be to relocate the current Administration, Student Services, Allied Health spaces, and three classrooms into temporary swing space, most likely modular “trailers” elsewhere on the campus.

The addition would then be constructed to house the new Gymnasium & support spaces, Administration, CTE shop space for the MET, Graphics, CIT, & Allied Health programs, and new science labs and general classrooms.

Once the new construction is completed and occupied the phased renovation of the existing building could begin. The renovation would include the conversion of the Science wing into the Electrical shop and the conversion of the former Gymnasium into a multi-purpose auditorium. This Auditorium could also provide swing space for the renovation of existing high-bay CTE shops. The relocation of the MET, Graphics, Electrical, and CIT programs will allow a domino effect of the remaining CTE programs to expand into renovated, right-sized spaces.

This option also considers the potential relocation of the Library Media Center into a connecting link from the new addition to the original 1962 building in lieu of its makeshift location in the former Lecture Hall.

The increase in student enrollment requires the construction of a wastewater treatment facility on site. Otherwise the site configuration remains largely unchanged.

To accommodate the larger enrollments that are being considered (up to 975 students), a third floor would be added to the addition and several existing high-bay shops would need to be expanded.

### Educational Program requirements:

Option AR-1 generally satisfies all of the space needs outlined in the Educational Program and preliminary Space Summary. It does not alter the existing undersized classrooms of the original building and certain CTE shops vary slightly from the DESE guidelines due to the configuration of the existing building. The Animal Science program will be located in an out-building.

It also provides some desired Small Group rooms, Breakout spaces, and Teacher rooms as described in the Ed Program both in the new construction and in the original school.



This option also meets the goal of providing a safe, enclosed courtyard accessible from the cafeteria and Library Media Center.

This option maintains the separate public access to the Culinary and Cosmetology shops, and improves its security by potentially located some administrative presence adjacent to that entrance.

#### **Space Summary Variations:**

This option does not alter the existing undersized classrooms (approx. 750 sf vs. 825 sf minimum) of the original building and certain CTE shops vary slightly from the DESE guidelines due to the configuration of the existing building. The Electrical program in particular would be undersized by DESE standards, but would be functional. Depending upon the enrollment that is ultimately selected, certain additional areas of new construction will be required to expand existing shops.

#### **Site and Facility Goals:**

This Option provides the school with a new image facing Webster Street.

This option includes an enclosed courtyard adjacent to the Cafeteria and Library Media Center

The general configuration of the site circulation and parking would be maintained while the materials would be renovated. The athletic fields would be renovated to improve their drainage and condition while remaining in their current location and configuration.

The extensive renovation would extend the longevity of the building. The facility's systems and finishes would be fully renovated to be new or like-new. The building envelope would be thermally improved, although not comparable to an all-new building.

#### **Construction Phasing:**

This option will involve construction adjacent to occupancy at times during the school year. Multiple phases will be required.

The first phase would be the installation of modular swing space and the relocation of certain classrooms, administration, and student services space. Then abatement and demolition of the front portion of the existing school would take place to create the building zone for new construction.

The addition will be constructed next in one phase. When completed this will provide some swing space to free up portions of the existing building for subsequent renovation.. Significant portions of the existing building that can't easily be housing in temporary accommodations such as the Kitchen and Cafeteria, as well as several high-bay CTE shops will need to be renovated during summers. To accomplish this amount of work may involve double shifts during the limited summer timeframes.

Temporary parking will also need to be considered during the initial new construction phase to compensate for space lost to construction activities.

Estimated construction duration is three and one half to four years.

More developed phasing and logistic plans will be developed in subsequent phases of this project.



**Areas (the area of this option varies proportionally with the target enrollment variations)**

Enrollment	Total	Renovation	New Construction
645 Students	201,500 sf	108,000 sf	93,500 sf
750 Students	217,500 sf	108,000 sf	109,500 sf
805 Students	230,400 sf	108,000 sf	122,400 sf
900 Students	243,200 sf	108,000 sf	135,200 sf
975 Students	254,500 sf	101,000 sf	153,500 sf

**Preliminary Order-Of-Magnitude Construction & Project Costs**

Enrollment	Total Construction Costs	Total Project Costs
645 Students	\$242,971,900	\$303,714,875
750 Students	\$265,916,600	\$332,395,750
805 Students	\$279,844,000	\$349,805,000
900 Students	\$293,406,500	\$366,758,125
975 Students	\$312,909,000	\$391,136,250

**Pro's:**

- Fully renovates the existing building like-new to extend its longevity
- Satisfies South Shore Tech's space needs and right-sizes most CTE programs
- Provides safe, secure, and direct public access to Consumer Services programs
- Separates adult post-graduate students from HS students

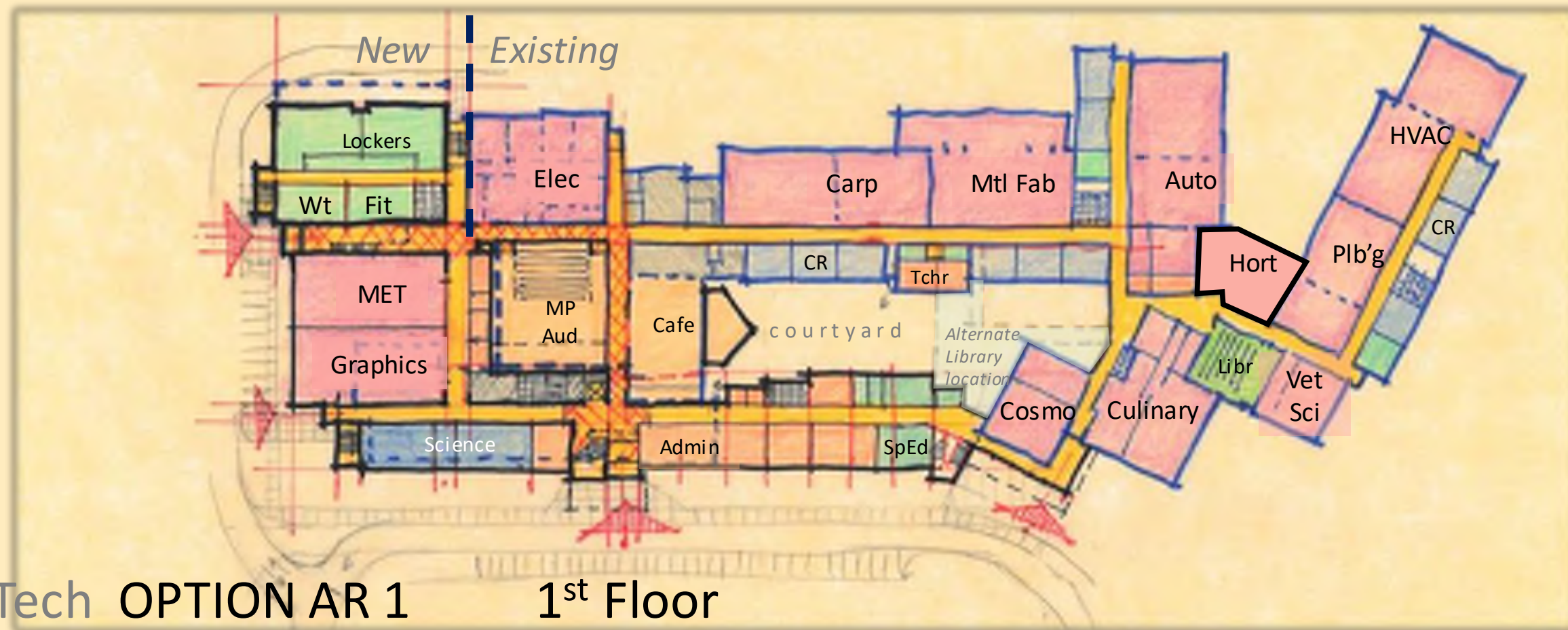
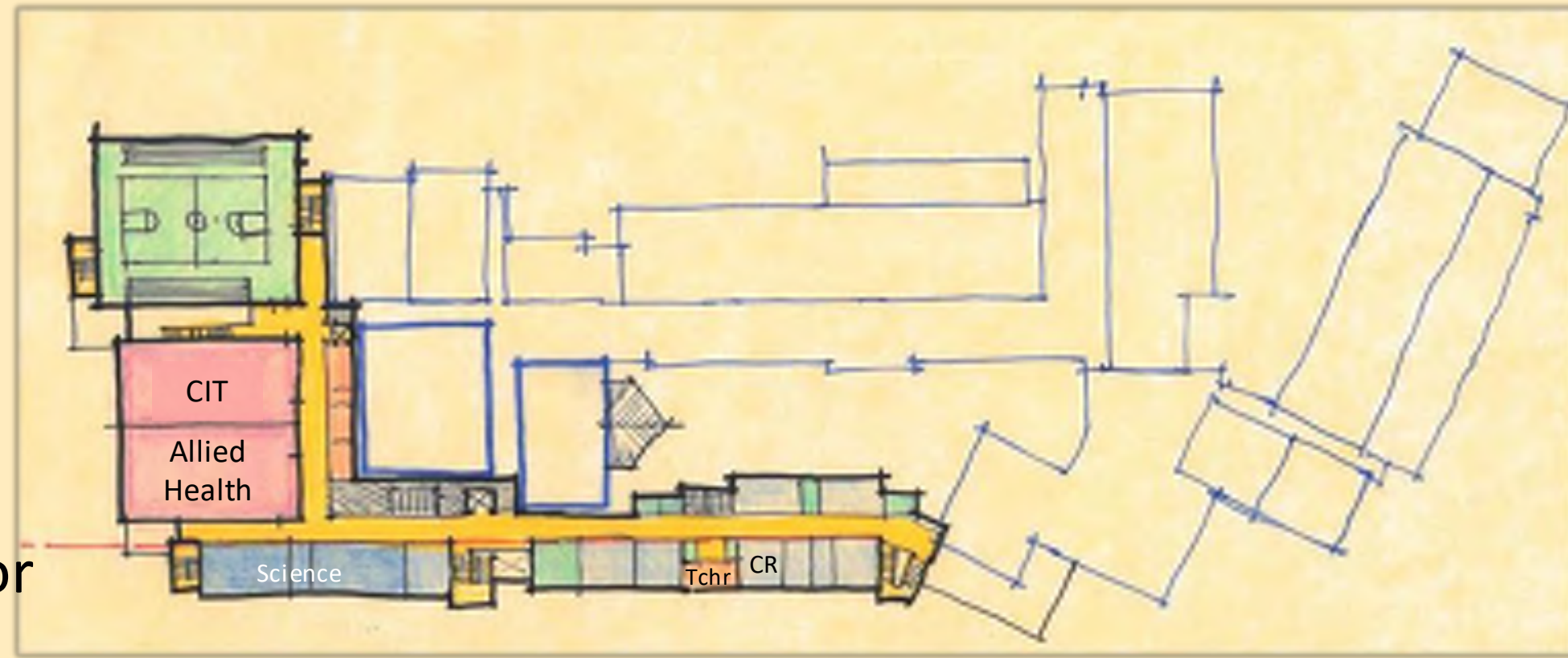
**Con's:**

- Doesn't significantly improve the integration of CTE and Academic spaces
- Requires disruptive phased construction adjacent to occupancy
- Long construction period





2<sup>nd</sup> Floor



South Shore Tech OPTION AR 1

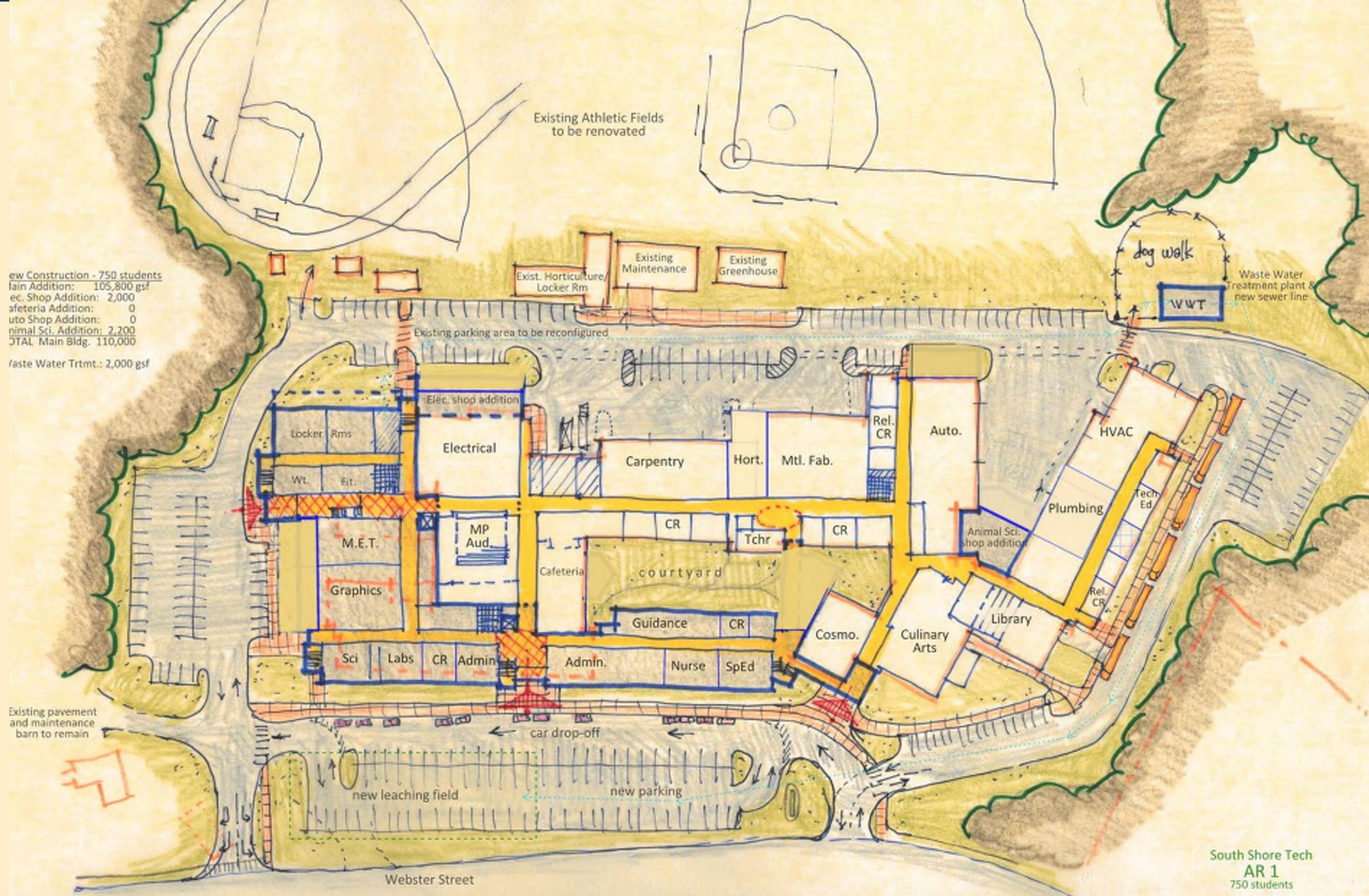
1<sup>st</sup> Floor





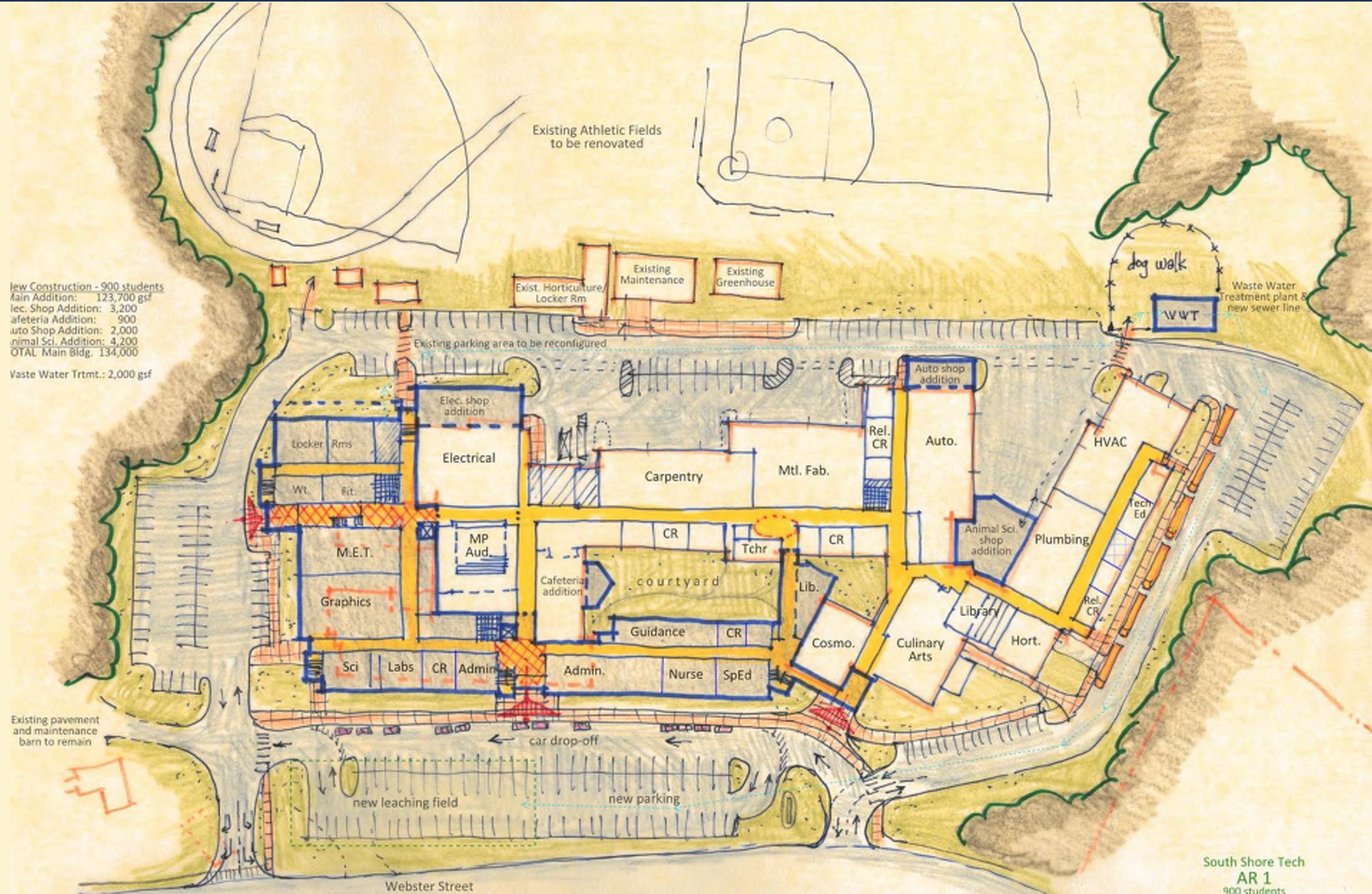
South Shore Tech OPTION AR 1





South Shore Tech OPTION AR 1 750 students Site Plan





South Shore Tech OPTION AR 1 900 students Site Plan





## OPTION AR-2 “Lightwell” Addition

### Description:

This option proposes multiple additions to be built in phases. The primary addition is a two-story L-shaped addition wrapping around to the south and east of the Gym forming a small courtyard or lightwell. Other additions would be constructed to expand certain CTE shops and the cafeteria. The entire existing building, except for the Science wing would be fully renovated.

The first phase of the project would be to relocate five science classrooms into temporary swing space, most likely modular “trailers” elsewhere on the campus.

The major addition would then be constructed to house the new low-bay shops for the Graphics, CIT, & Allied Health programs, girls locker rooms, and new science labs and general classrooms.

Once the first phase of new construction is completed and occupied, the smaller additions and phased renovation of the existing building could proceed. The smaller additions would expand most existing CTE shops as required to meet the space needs while also renovating the existing spaces. This option retains and renovates the undersized Gymnasium. The existing Lecture Hall is restored to its original size in lieu of constructing a new Auditorium. The relocation of the Graphics and CIT programs will allow the adjacent CTE programs to expand into renovated, right-sized spaces. This option also relocates the Library Media Center back into its previous location in the 1962 building.

The increase in student enrollment requires the construction of a wastewater treatment facility on site. Otherwise the site configuration remains largely unchanged.

To accommodate the larger enrollments that are being considered (up to 975 students), a third floor would be added to the addition and several existing high-bay shops would need to be expanded further.

### Educational Program requirements:

Option AR-2 generally satisfies most of space needs outlined in the Educational Program and preliminary Space Summary. However two significant variations are: the existing undersized Gym (7,150 sf vs, 12,000 sf) is retained; and the existing Lecture is retained in lieu of a new, larger Auditorium (100 seats vs 450 seats).

Also, this option does not alter the existing undersized classrooms of the original building and certain CTE shops vary slightly from the DESE guidelines due to the configuration of the existing building. The Animal Science program will be located in an out-building.

This option does provide some desired Small Group rooms, Breakout spaces, and Teacher rooms as described in the Ed Program in both the new construction and in the original school. The Library Media Center is located in closer proximity to the academic classrooms as desired.



This option maintains the separate public access to the Culinary and Cosmetology shops.

#### **Space Summary Variations:**

Two significant variations are: the existing undersized Gym (7,150 sf vs, 12,000 sf) is retained; and the existing Lecture is retained in lieu of a new, larger Auditorium (100 seats vs 450 seats). This option does not alter the existing undersized classrooms (approx. 750 sf vs. 825 sf minimum) of the original building and certain CTE shops vary slightly from the DESE guidelines due to the configuration of the existing building. The Horticulture program's greenhouse and the proposed Animal Science program will be housed in out-buildings. Depending upon the enrollment that is ultimately selected, certain additional areas of new construction will be required to expand existing shops.

#### **Site and Facility Goals:**

The general configuration of the site circulation and parking would be maintained while the materials would be renovated. The athletic fields would be renovated to improve their drainage and condition while remaining in their current location and configuration.

The extensive renovation would extend the longevity of the building. The facility's systems and finishes would be fully renovated to be new or like-new. The building envelope would be thermally improved, although not comparable to an all-new building.

#### **Construction Phasing:**

This option will involve construction adjacent to occupancy at times during the school year. Multiple phases will be required.

The first phase would be the installation of modular swing space and the relocation of science classrooms. Then abatement and demolition of the Science wing would take place to create the building zone for new construction.

The major addition will be constructed next in one phase. When completed this will provide some swing space to free up portions of the existing building for subsequent renovation.. Significant portions of the existing building that can't easily be housing in temporary accommodations such as the Kitchen, Cafeteria, and Gym, as well as several high-bay CTE shops will need to be renovated during summers. To accomplish this amount of work may involve double shifts during the limited summer timeframes.

Temporary parking will also need to be considered during the initial new construction phase to compensate for space lost to construction activities.

Estimated construction duration is four years.

More developed phasing and logistic plans will be developed in subsequent phases of this project.



**Areas (the area of this option varies proportionally with the target enrollment variations)**

Enrollment	Total	Renovation	New Construction
645 Students	188,100 sf	115,000 sf	73,100 sf
750 Students	201,700 sf	115,000 sf	86,700 sf
805 Students	209,600 sf	115,000 sf	94,600 sf
900 Students	228,500 sf	115,000 sf	113,500 sf
975 Students	236,100 sf	115,000 sf	121,100 sf

**Preliminary Order-Of-Magnitude Construction & Project Costs**

Enrollment	Total Construction Costs	Total Project Costs
645 Students	\$ 222,327,700	\$ 277,909,625
750 Students	\$ 242,877,300	\$ 303,596,625
805 Students	\$ 251,373,100	\$ 314,216,375
900 Students	\$ 271,087,000	\$ 338,858,750
975 Students	\$ 279,488,200	\$ 349,360,250

**Pro's:**

- Fully renovates the existing building like-new to extend its longevity
- Satisfies most of South Shore Tech's space needs and right-sizes most CTE programs
- Minimizes construction cost with reduced overall size
- Provides safe, secure, and direct public access to public CTE programs
- Incorporates lightwell courtyard to provide natural light to all education spaces

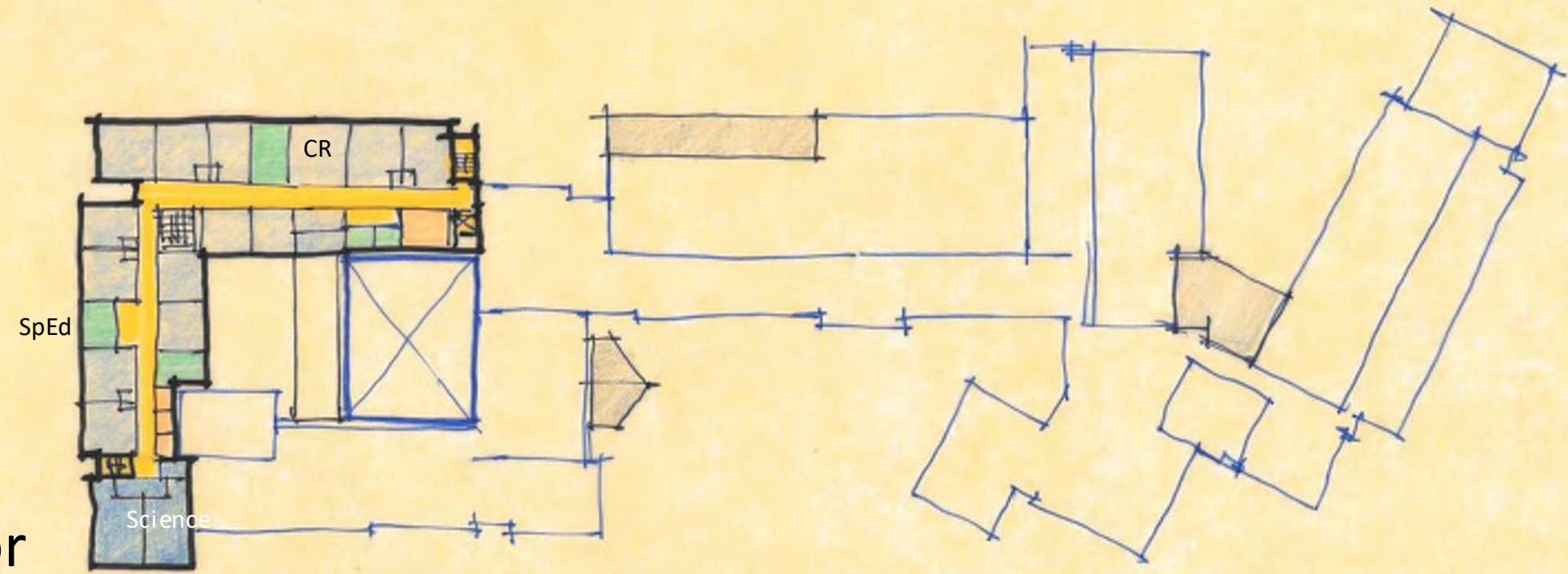
**Con's:**

- Significant disruption during all phases of construction
- Long construction period
- Requires temporary modular swing space
- Smaller Gym and Lecture Hall retained
- Sprawling, remote configuration remains
- No significant improvement to site circulation
- Higher enrollment options significantly constrain available site
- Limited opportunity for future expansion

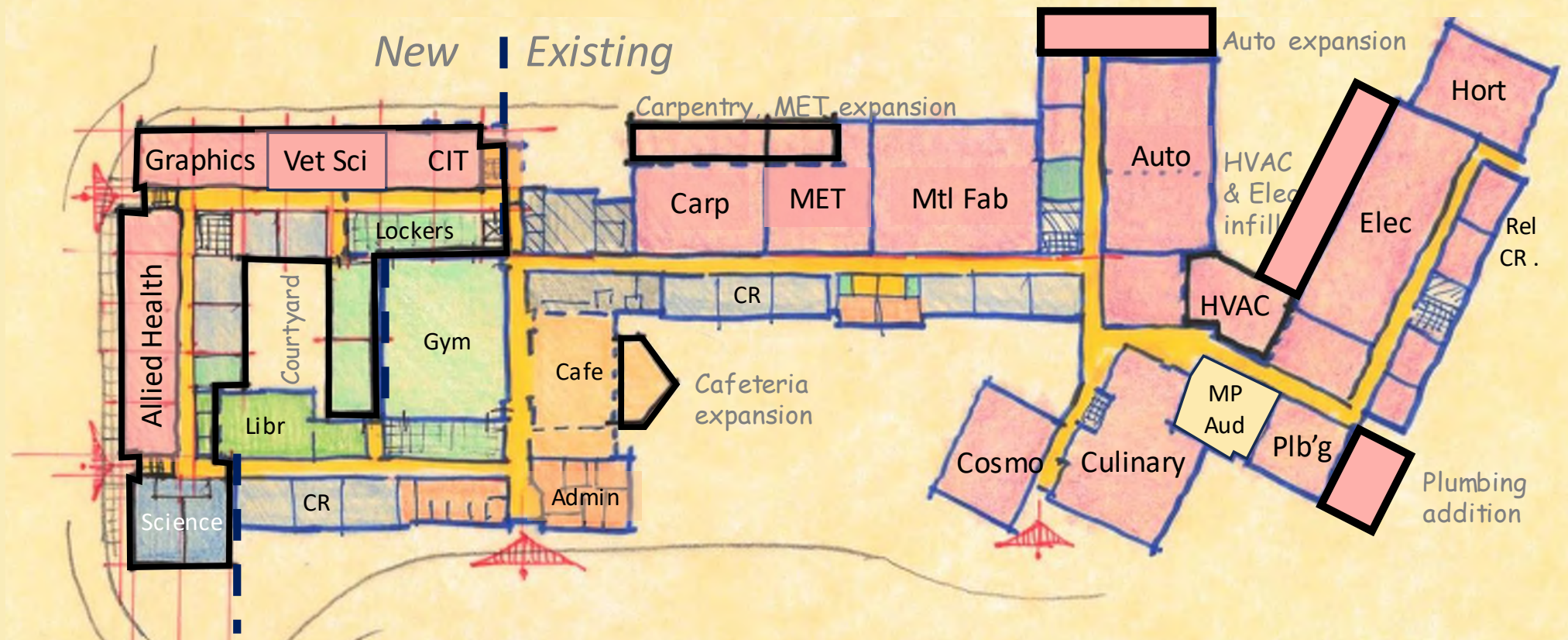




2<sup>nd</sup> Floor



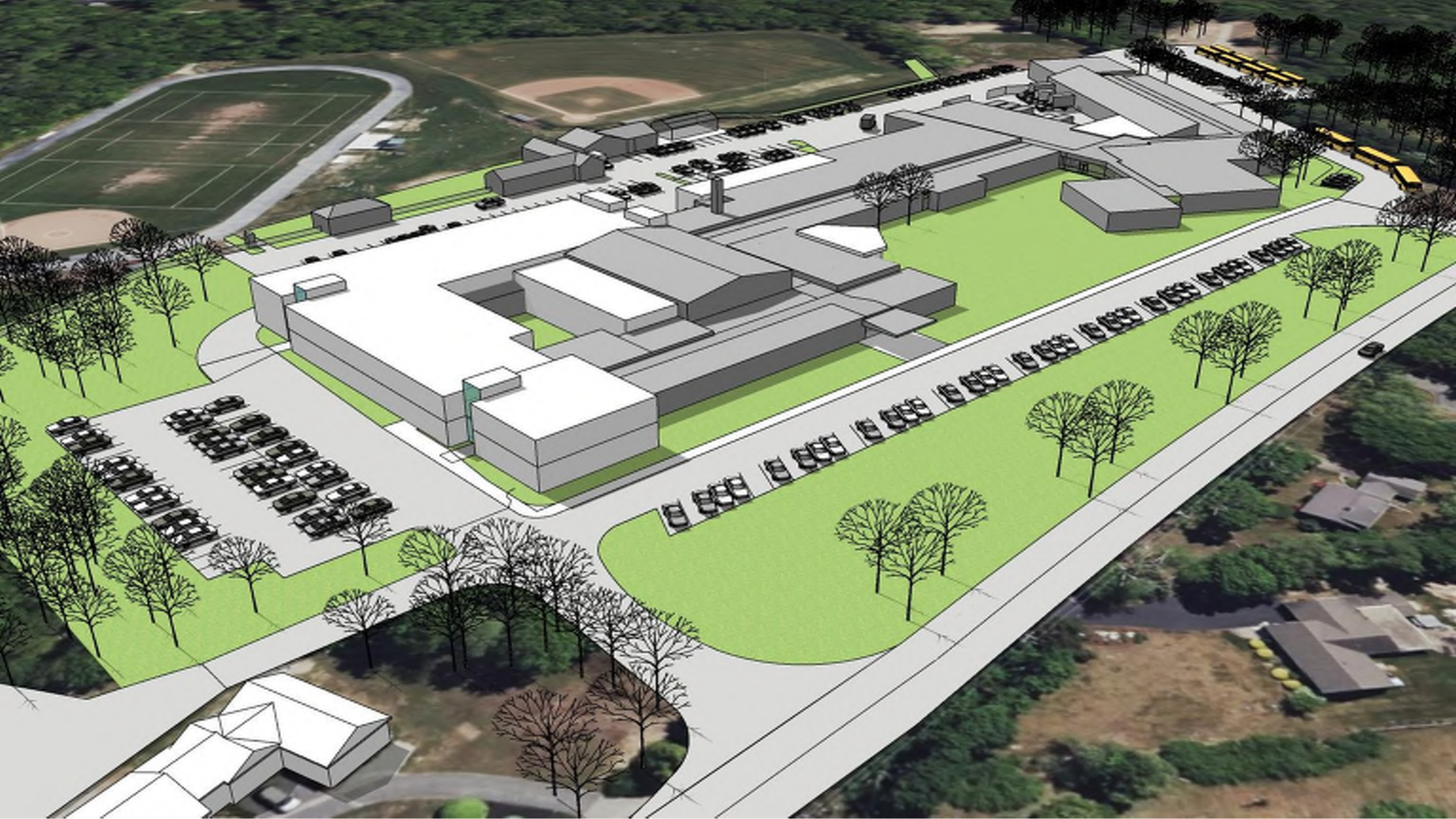
New | Existing



1<sup>st</sup> Floor

South Shore Tech OPTION AR 2

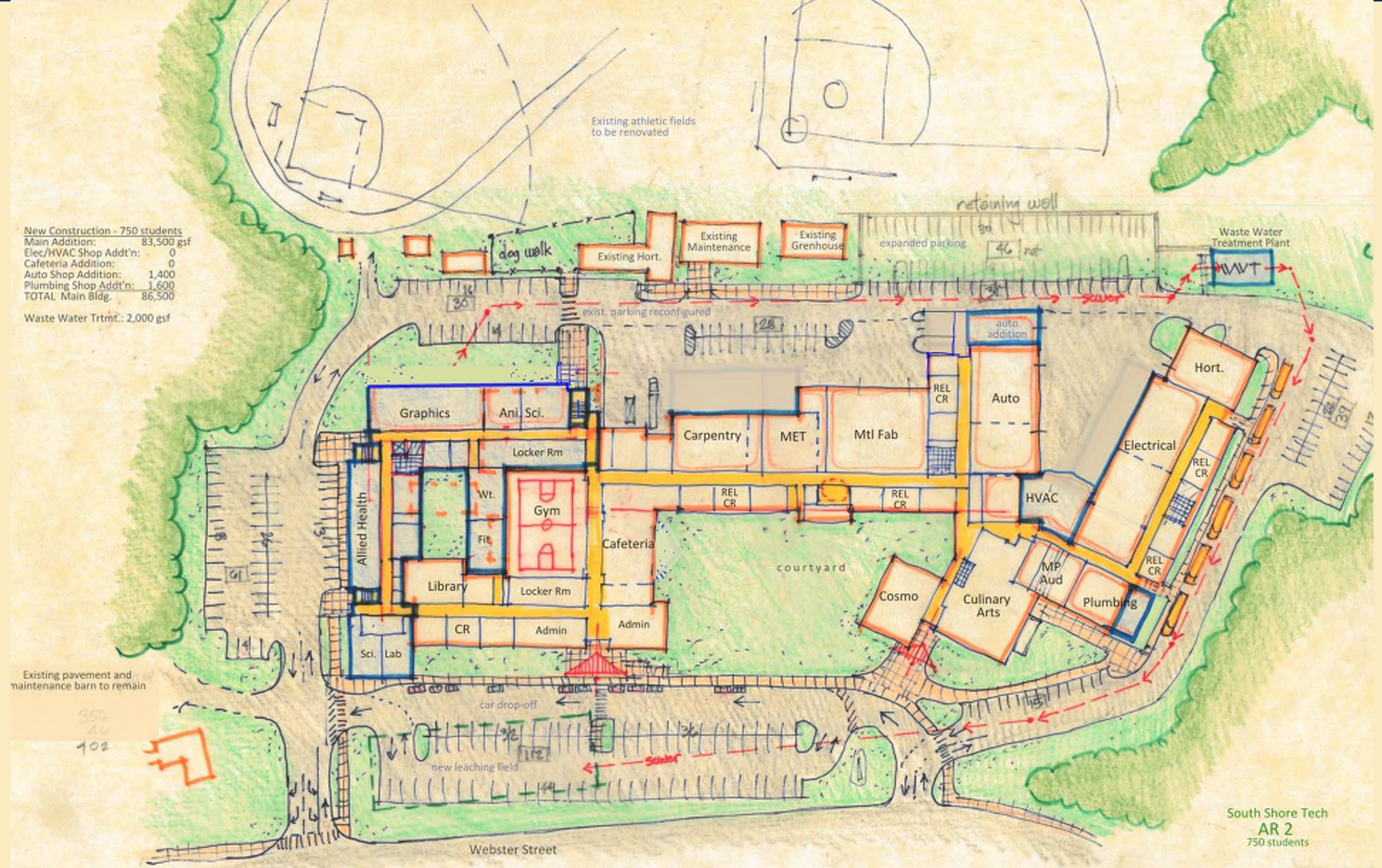




South Shore Tech OPTION AR 2



New Construction - 750 students  
 Main Addition: 83,500 gsf  
 Elec/HVAC Shop Add't'n: 0  
 Cafeteria Addition: 0  
 Auto Shop Addition: 1,400  
 Plumbing Shop Add't'n: 1,600  
 TOTAL Main Bldg.: 86,500  
 Waste Water Trtmt.: 2,000 gsf



South Shore Tech  
 AR 2  
 750 students

South Shore Tech OPTION AR 2 750 students Site Plan











## OPTION NC-1 “Courtyard”

### **Description:**

This new construction option proposes siting the new school on the current athletic fields. The three-story courtyard building is configured with the large assembly areas and Student Commons at the north and the academic spaces to the south organized around an exterior courtyard. The high-bay shops are at rear of the main level and accessed by a perimeter service drive. The main entrance at the Commons serves not only as the primary student entrance, but also as the visitors and events entrance for after-hours activities in the Gym and Auditorium. The Culinary and Cosmetology programs are also on the main level with a separate, secure public entrance.

The remaining low bay CTE shops are located on the second floor. Each level has academic classrooms across the corridor from CTE spaces to provide the desired adjacencies as described in the Education Program.

This option anticipates that the District’s Maintenance storage and garage facilities will be located in the adjacent District-owned residential parcel.

### **Educational Program requirements:**

Option NC-1 satisfies the space needs outlined in the Educational Program. It provides the overall building configuration and key adjacencies identified in the Educational Program. This option provides the desired enclosed courtyard identified in visioning sessions. The building utilizes the Student Commons and Learning Commons as core elements as the heart of the school.

This proposed layout also provides desired Small Group rooms and Breakout spaces as described in the Ed Program. This option provides convenient public access to the Consumer Services shops (Culinary, Cosmo) and the Auditorium. It has the potential to create a new architectural image for the front of the school. It brings the related Chapter 74 CTE programs together in career clusters.

### **Space Summary variation:**

It is anticipated that this option will closely match all of the Space Summary requirements, including the District offices.

### **Site and Facility goals:**

This Option has a compact footprint that can be constructed independent of the existing school. The new site layout will provide a separate service area and the potential for separate bus and car drop-off areas. Expanded athletic fields would be created, including a separate softball field, after the existing building is demolished.

The new building would provide all new infrastructure and potential for a robust energy efficient facility.

A new wastewater treatment plant would be constructed.

### **Construction Phasing:**

This option would be constructed in two basic phases: 1. New Construction of the proposed new school and treatment plant. 2. Demolition of the existing school and construction of athletic fields, parking, and final sitework.



It is anticipated that Phase 1 can be accomplished with minimal disruption to the ongoing operation of the existing school, although temporary parking will need to be considered to compensate for the loss of the existing rear parking. Athletics and physical education will need to compensate for the lack of outdoor playing fields for a period of perhaps three to four years.

Estimated construction duration is two and one half to three years.

More developed phasing and logistic plans will be developed in subsequent phases of this project.

**Areas (the area of this option varies proportionally with the target enrollment variations)**

Enrollment	Area
645 Students	203,480 sf
750 Students	228,540 sf
805 Students	240,000 sf
900 Students	260,000 sf
975 Students	278,000 sf

**Preliminary Order-Of-Magnitude Construction & Project Costs**

Enrollment	Total Construction Costs	Total Project Costs
645 Students	\$234,989,780	\$293,737,225
750 Students	\$263,929,690	\$329,912,113
805 Students	\$275,352,600	\$344,190,750
900 Students	\$294,330,900	\$367,913,625
975 Students	\$311,489,600	\$389,362,000

**Pro's:**

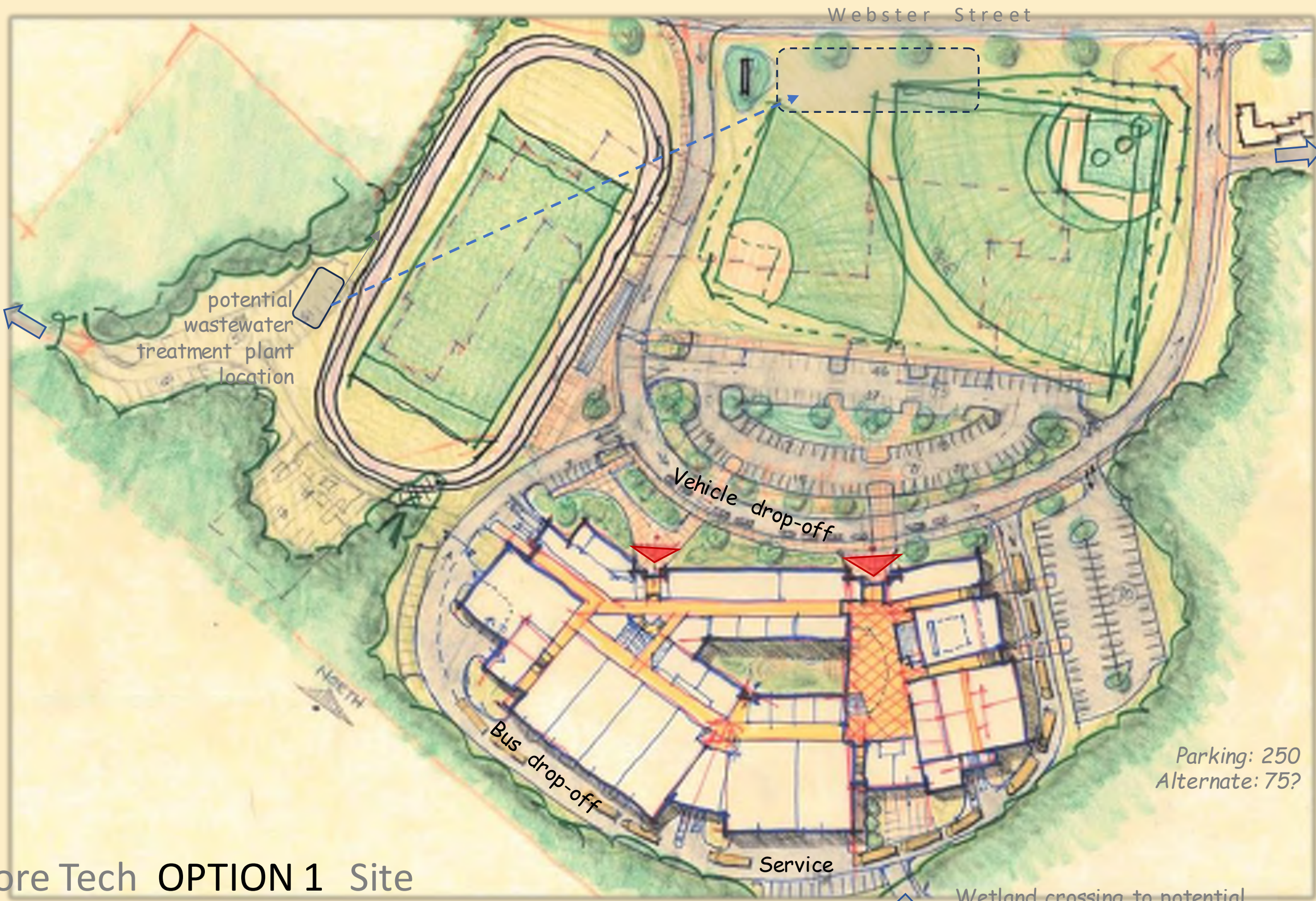
- Satisfies South Shore’s space needs and right-sizes all CTE programs, including new Ch.74 programs
- Meets all of the District’s Educational goals, including an enclosed exterior courtyard
- Provides convenient public access to the Consumer Services programs and assembly spaces
- Has potential for a strong new architectural image
- Compact footprint promotes good internal connectivity
- Configures CTE programs into career clusters
- Eliminates the need for temporary classrooms
- Provides long-term value with new infrastructure and robust energy efficiency

**Con's:**

- Higher construction cost
- Larger footprint constrains future expansion potential
- Athletic fields are displaced for several years
- Limited available parking during the first year of occupancy



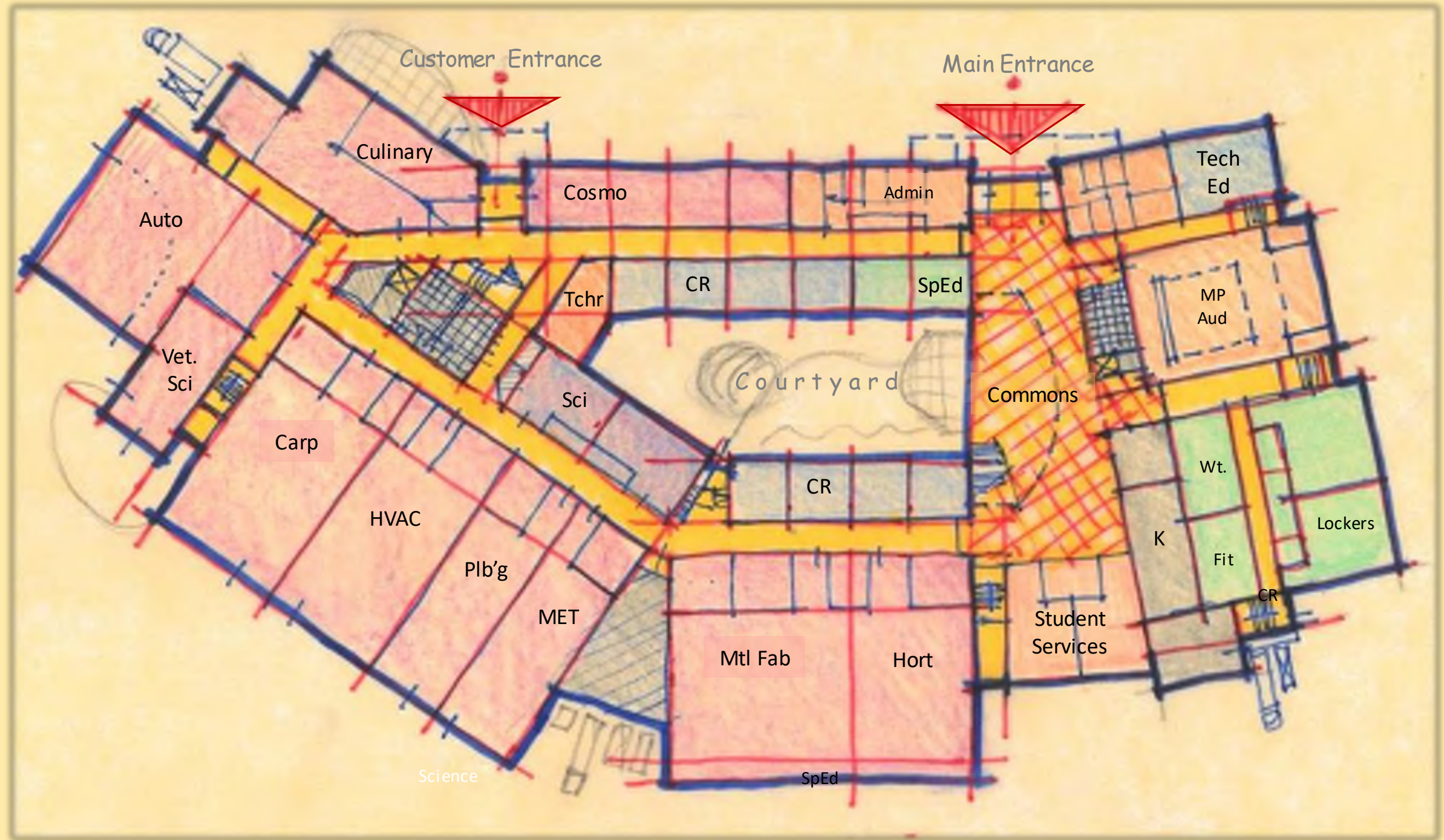




South Shore Tech OPTION 1 Site

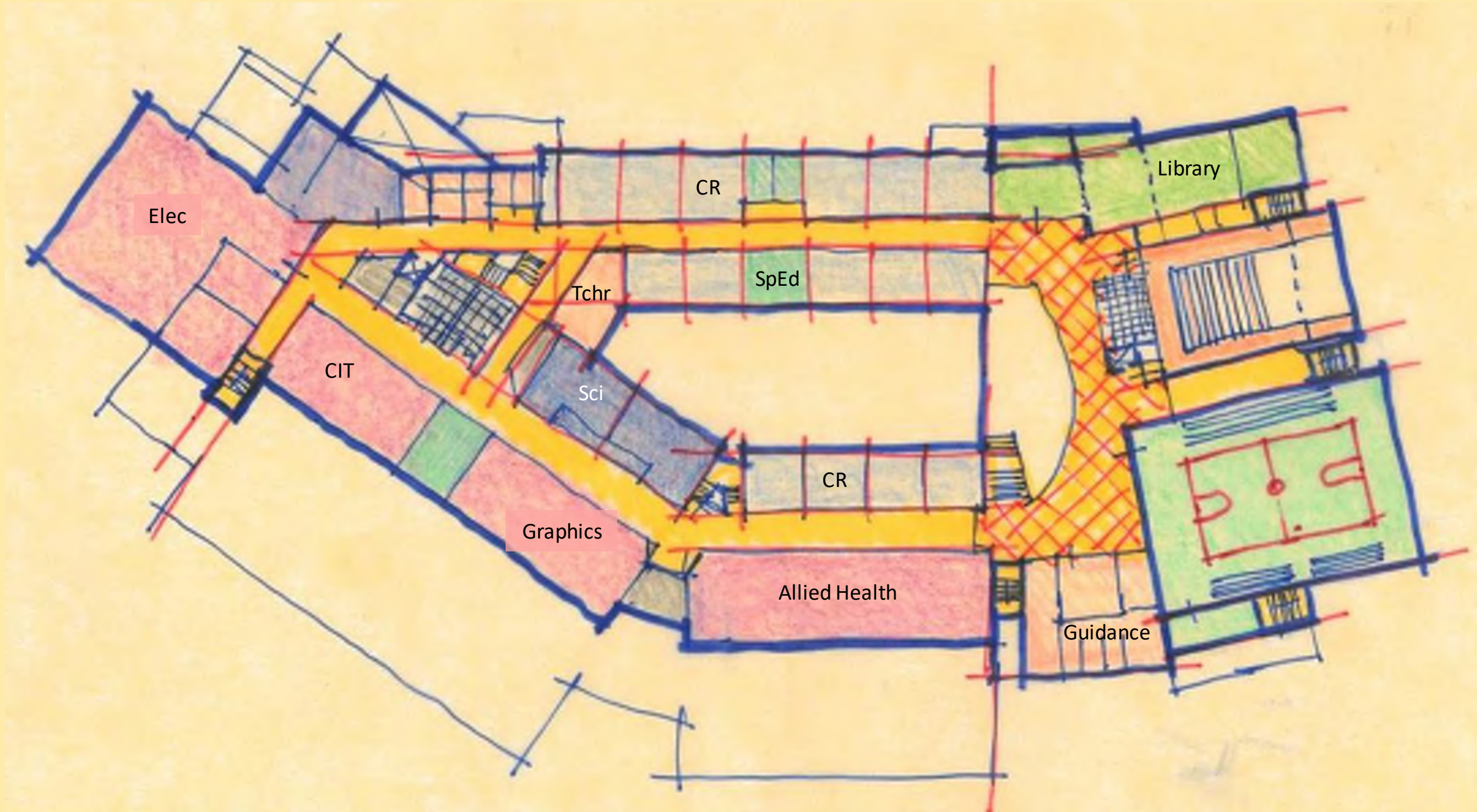
Parking: 250  
Alternate: 75?





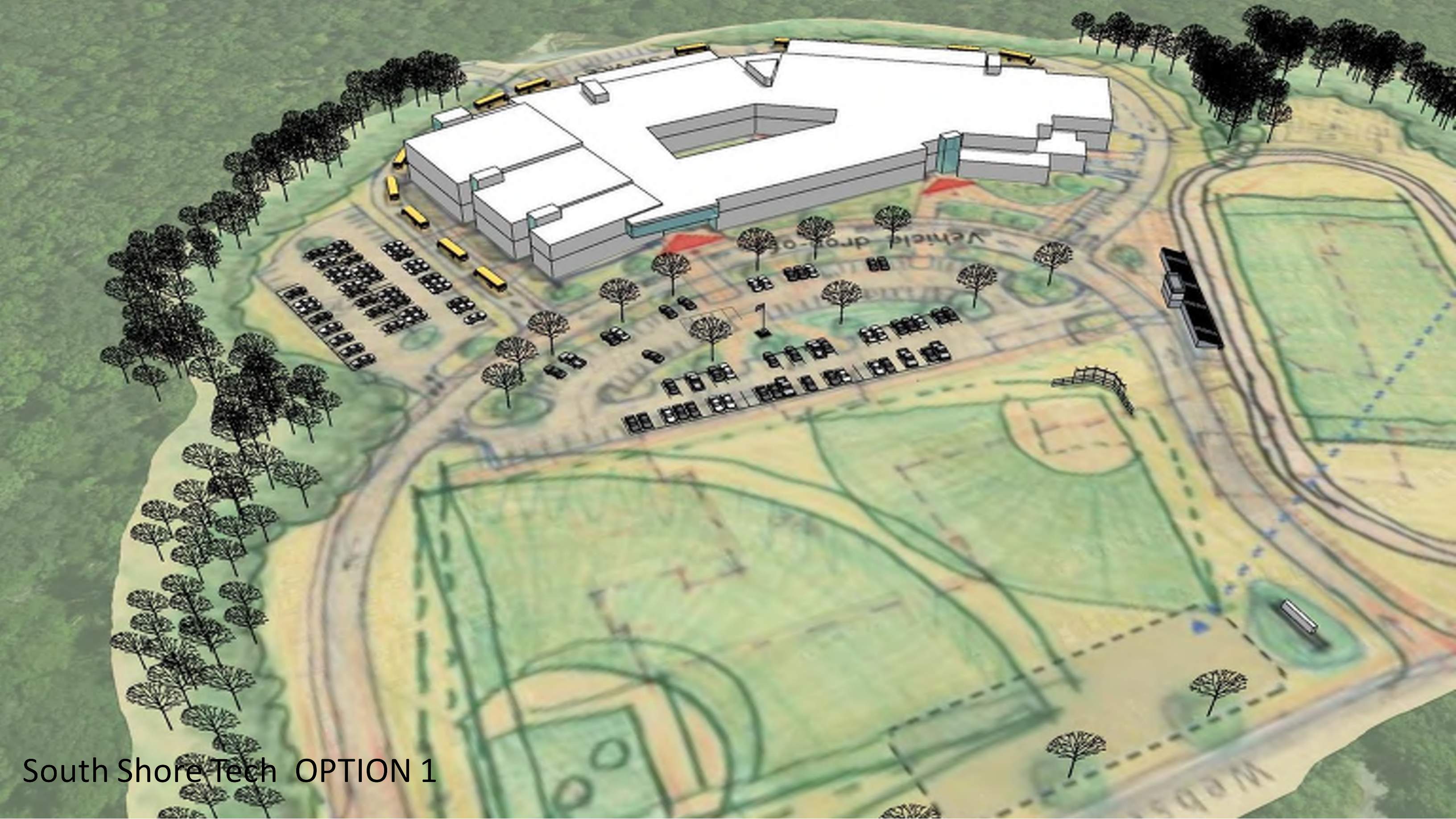
South Shore Tech OPTION 1 1<sup>st</sup> Floor





South Shore Tech OPTION 1 2<sup>nd</sup> Floor





South Shore Tech OPTION 1





## OPTION NC-2 “Linear”

### Description:

This new construction option proposes siting the new school on the current athletic fields. The three-story building is configured with the large assembly areas and Student Commons to the north and the academic spaces to the south organized along a linear “main street” circulation spine. This linear spine bends to conform to the available site. The high-bay shops are located in clusters to the south of the spine and administration, Culinary, and Cosmetology are to the north. The main entrance at the Commons serves not only as the primary student entrance, but also as the visitors and events entrance for after hours activities in the Gym and Auditorium.

The remaining low bay CTE shops are located on the second floor over the shops. All of the academic classrooms, science labs and Special Ed spaces are on the second and third floors. Each level has teacher planning, small group rooms and collaborative space as recommended in the visioning sessions.

This option anticipates that the District’s Maintenance storage and garage facilities will be located in the adjacent District-owned residential parcel.

### Educational Program requirements:

Option NC-2 satisfies the space needs outlined in the Educational Program. It provides the overall building configuration and key adjacencies identified in the Educational Program. The building utilizes the Student Commons and Learning Commons as core elements as the heart of the school and has small gathering hubs along the main street.

This proposed layout also provides desired Small Group rooms and Breakout spaces as described in the Ed Program. This option provides convenient public access to the Consumer Services shops (Culinary, Cosmo,) and the Auditorium. It has the potential to create a new architectural image for the front of the school. It brings the related Chapter 74 CTE programs together in career clusters.

### Space Summary variation:

It is anticipated that this option will closely match all of the Space Summary requirements, including the District offices.

### Site and Facility goals:

This Option has a compact footprint that can be constructed independent of the existing school. The new site layout will provide a separate service area and the potential for separate bus and car drop-off areas. Expanded athletic fields would be created, including a separate softball field, after the existing building is demolished.

The new building would provide all new infrastructure and potential for a robust energy efficient facility.

A new wastewater treatment plant would be constructed.





**Construction Phasing:**

This option would be constructed in two basic phases: 1. New Construction of the proposed new school and treatment plant. 2. Demolition of the existing school and construction of athletic fields, parking, and final sitework.

It is anticipated that Phase 1 can be accomplished with minimal disruption to the ongoing operation of the existing school, although temporary parking will need to be considered to compensate for the loss of the existing rear parking. Athletics and physical education will need to compensate for the lack of outdoor playing fields for a period of perhaps three to four years.

Estimated construction duration is two and one half to three years.

More developed phasing and logistic plans will be developed in subsequent phases of this project.

**Areas (the area of this option varies proportionally with the target enrollment variations)**

Enrollment	Area
645 Students	203,480 sf
750 Students	228,540 sf
805 Students	240,000 sf
900 Students	260,000 sf
975 Students	278,000 sf

**Preliminary Order-Of-Magnitude Construction & Project Costs**

Enrollment	Total Construction Costs	Total Project Costs
645 Students	\$234,989,780	\$293,737,225
750 Students	\$263,929,690	\$329,912,113
805 Students	\$275,352,600	\$344,190,750
900 Students	\$294,330,900	\$367,913,625
975 Students	\$311,489,600	\$389,362,000

**Pro’s:**

- Satisfies South Shore’s space needs and right-sizes all CTE programs, including new Ch.74 programs
- Meets all of the District’s Educational goals.
- Provides convenient public access to the Consumer Services programs and assembly spaces
- Has potential for a strong new architectural image
- Compact footprint promotes good internal connectivity
- Configures CTE programs into career clusters
- Eliminates the need for temporary classrooms
- Provides long-term value with new infrastructure and robust energy efficiency



**Con's:**

- Higher construction cost
- Larger footprint constrains future expansion potential
- Athletic fields are displaced for several years
- Limited available parking during the first year of occupancy





Webster Street

District Offices

Wetland crossing to potential additional parking & Main St. access

potential wastewater treatment plant location

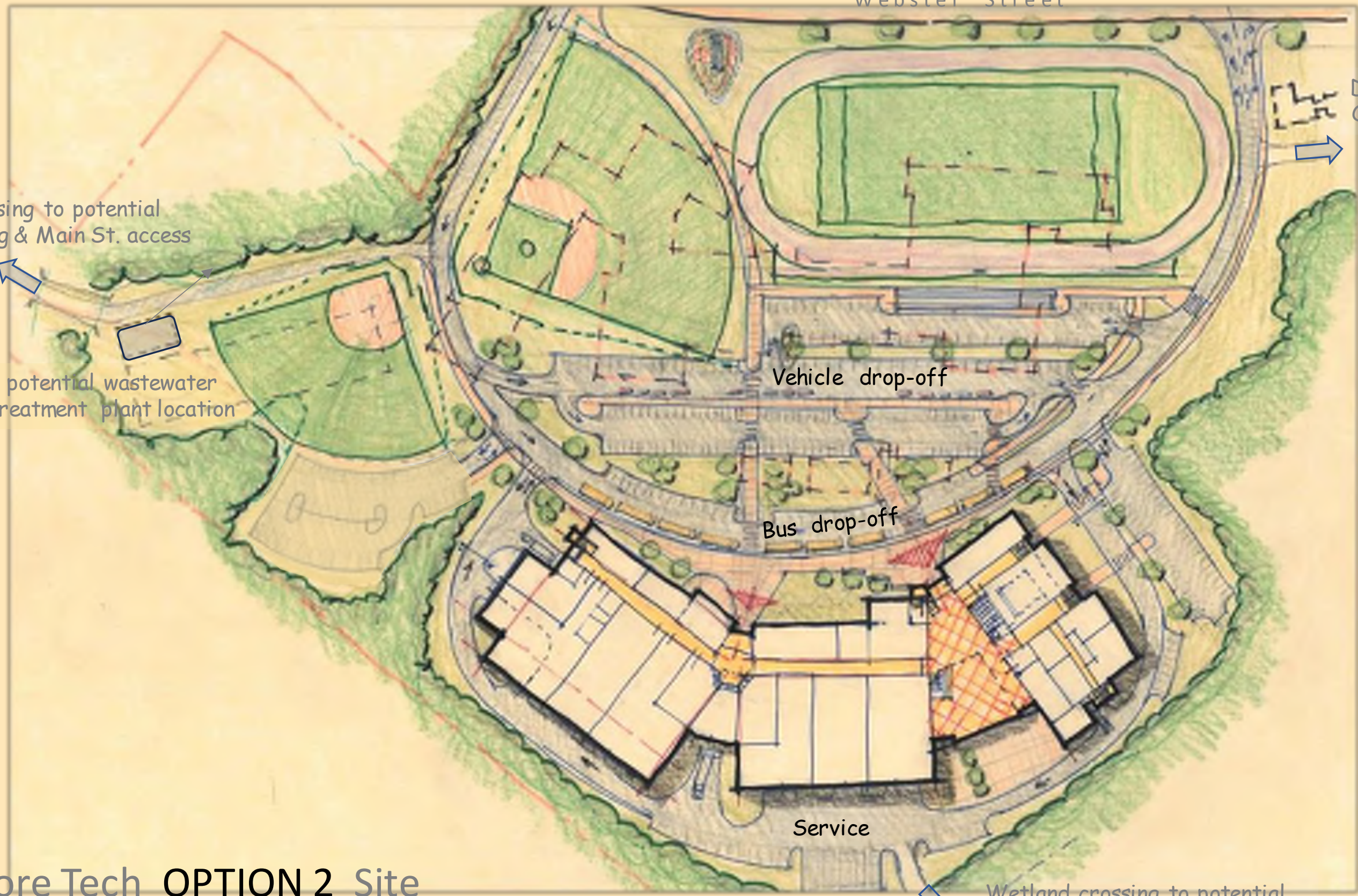
Vehicle drop-off

Bus drop-off

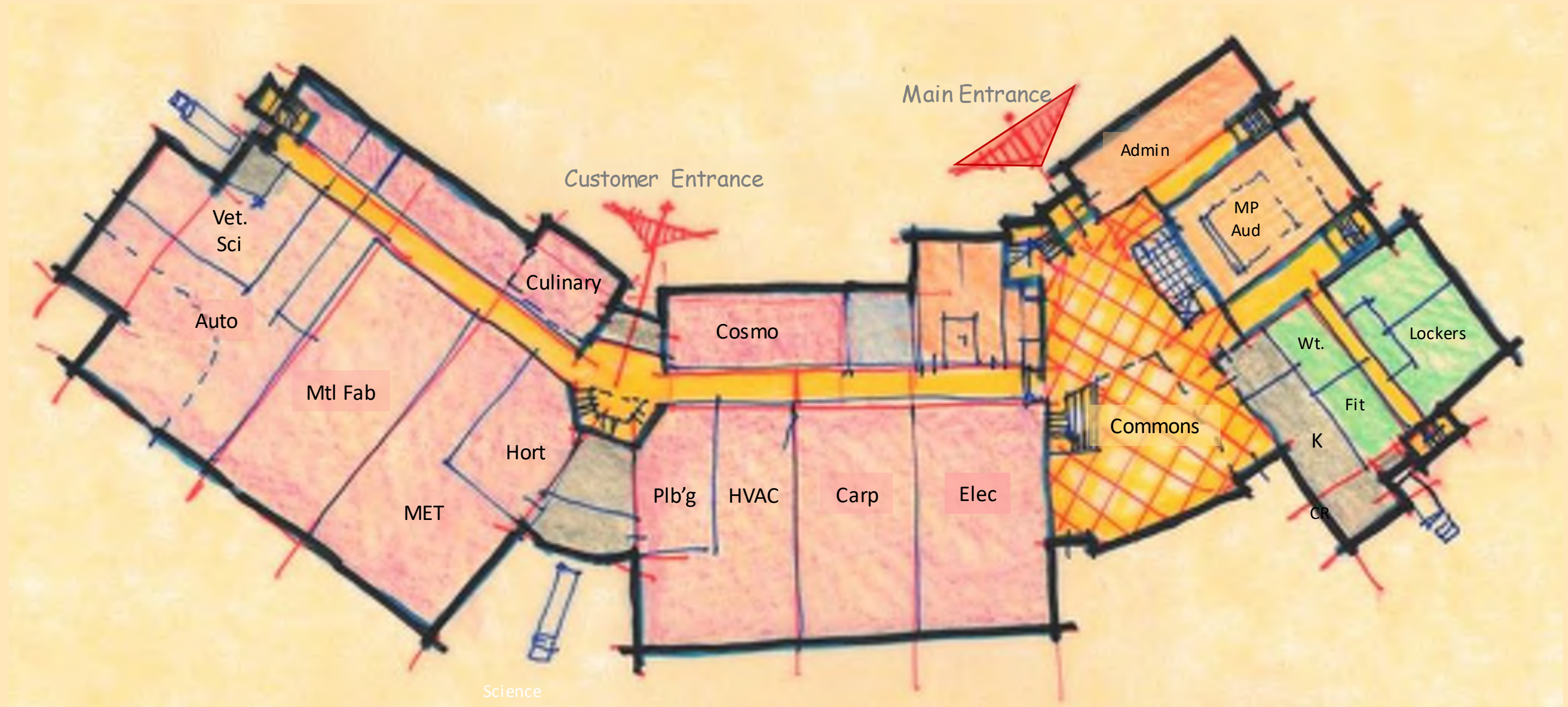
Service

Wetland crossing to potential additional parking/ playing field

# South Shore Tech OPTION 2 Site

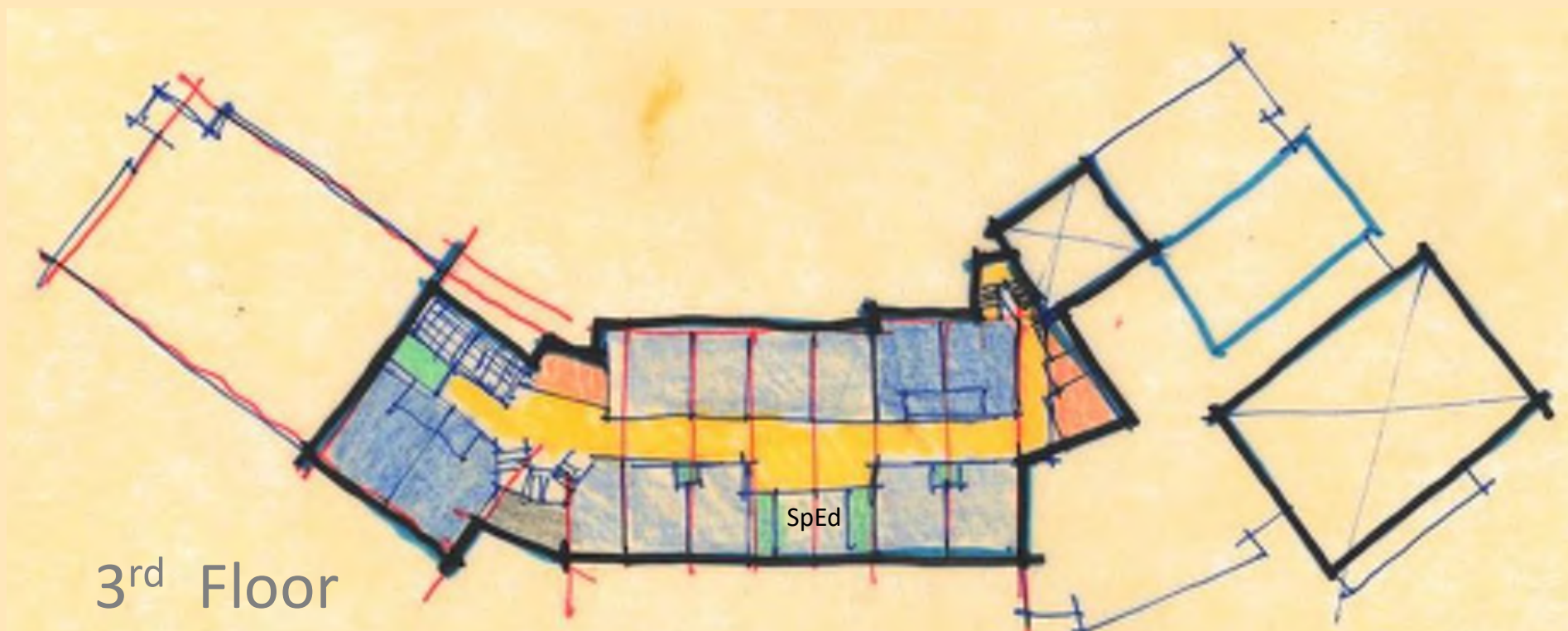




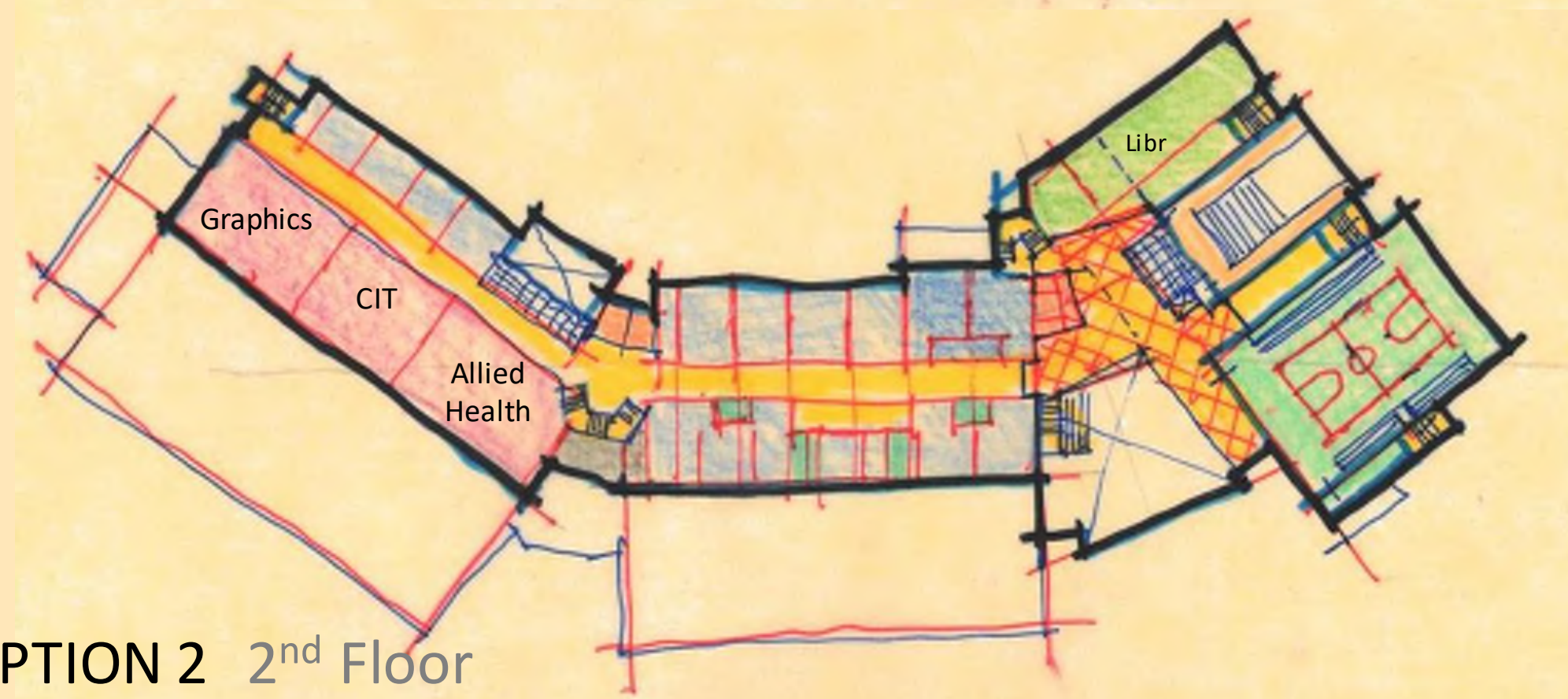


South Shore Tech OPTION 2 1<sup>st</sup> Floor





3<sup>rd</sup> Floor



South Shore Tech OPTION 2 2<sup>nd</sup> Floor





South Shore Tech OPTION 2





## OPTION NC-3 “Wings”

### Description:

This new construction option proposes siting the new school on the current athletic fields. The three-story building is configured with the large assembly areas and Student Commons to the north and the academic spaces to the south. The high-bay CTE shops are configured in separate wings off of the main circulation corridor. This linear spine bends to conform to the available site. The CTE wings enclose service courtyards similar to the schools current configuration. The main entrance at the Commons serves not only as the primary student entrance, but also as the visitors and events entrance for after-hours activities in the Gym and Auditorium.

The remaining low bay CTE shops are located on the second floor over the shops. All of the academic classrooms, science labs and Special Ed spaces are on the second and third floors. Each level has teacher planning, small group rooms and collaborative space as recommended in the visioning sessions.

This option anticipates that the District’s Maintenance storage and garage facilities will be located in the adjacent District-owned residential parcel.

### Educational Program requirements:

Option NC-3 satisfies the space needs outlined in the Educational Program. It provides the overall building configuration and key adjacencies identified in the Educational Program. The building utilizes the Student Commons and Learning Commons as core elements as the heart of the school and has small gathering hubs along the main corridor.

This proposed layout also provides desired Small Group rooms and Breakout spaces as described in the Ed Program. This option provides convenient public access to the Consumer Services shops (Culinary, Cosmo,) and the Auditorium. It has the potential to create a new architectural image for the front of the school. It brings the related Chapter 74 CTE programs together in career clusters.

### Space Summary variation:

It is anticipated that this option will closely match all of the Space Summary requirements, including the District offices.

### Site and Facility goals:

This Option has a compact footprint that can be constructed independent of the existing school. The new site layout will provide a separate service area and the potential for separate bus and car drop-off areas. Expanded athletic fields would be created, including a separate softball field, after the existing building is demolished.

The new building would provide all new infrastructure and potential for a robust energy efficient facility.

A new wastewater treatment plant would be constructed.



**Construction Phasing:**

This option would be constructed in two basic phases: 1. New Construction of the proposed new school and treatment plant. 2. Demolition of the existing school and construction of athletic fields, parking, and final sitework.

It is anticipated that Phase 1 can be accomplished with minimal disruption to the ongoing operation of the existing school, although temporary parking will need to be considered to compensate for the loss of the existing rear parking. Athletics and physical education will need to compensate for the lack of outdoor playing fields for a period of perhaps three to four years.

Estimated construction duration is two and one half to three years.

More developed phasing and logistic plans will be developed in subsequent phases of this project.

**Areas (the area of this option varies proportionally with the target enrollment variations)**

Enrollment	Area
645 Students	203,480 sf
750 Students	228,540 sf
805 Students	240,000 sf
900 Students	260,000 sf
975 Students	278,000 sf

**Preliminary Order-Of-Magnitude Construction & Project Costs**

Enrollment	Total Construction Costs	Total Project Costs
645 Students	\$234,989,780	\$293,737,225
750 Students	\$263,929,690	\$329,912,113
805 Students	\$275,352,600	\$344,190,750
900 Students	\$294,330,900	\$367,913,625
975 Students	\$311,489,600	\$389,362,000

**Pro’s:**

- Satisfies South Shore’s space needs and right-sizes all CTE programs, including new Ch.74 programs
- Meets all of the District’s Educational goals.
- Provides convenient public access to the Consumer Services programs and assembly spaces
- Has potential for a strong new architectural image
- Compact footprint promotes good internal connectivity
- Configures CTE programs into career clusters
- Eliminates the need for temporary classrooms
- Provides long-term value with new infrastructure and robust energy efficiency

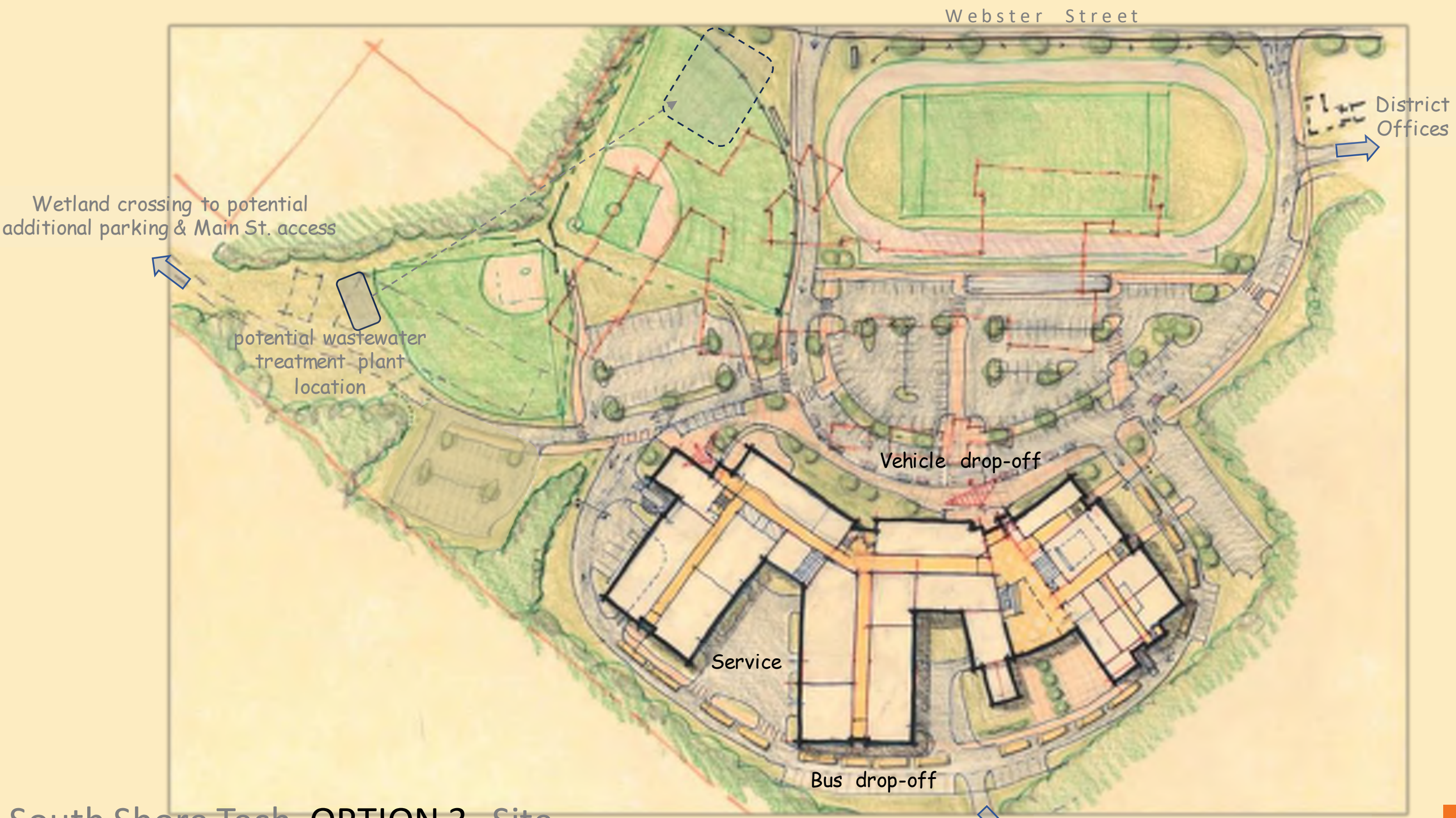


**Con's:**

- Higher construction cost
- Larger footprint constrains future expansion potential
- Athletic fields are displaced for several years
- Limited available parking during the first year of occupancy







South Shore Tech OPTION 3 Site

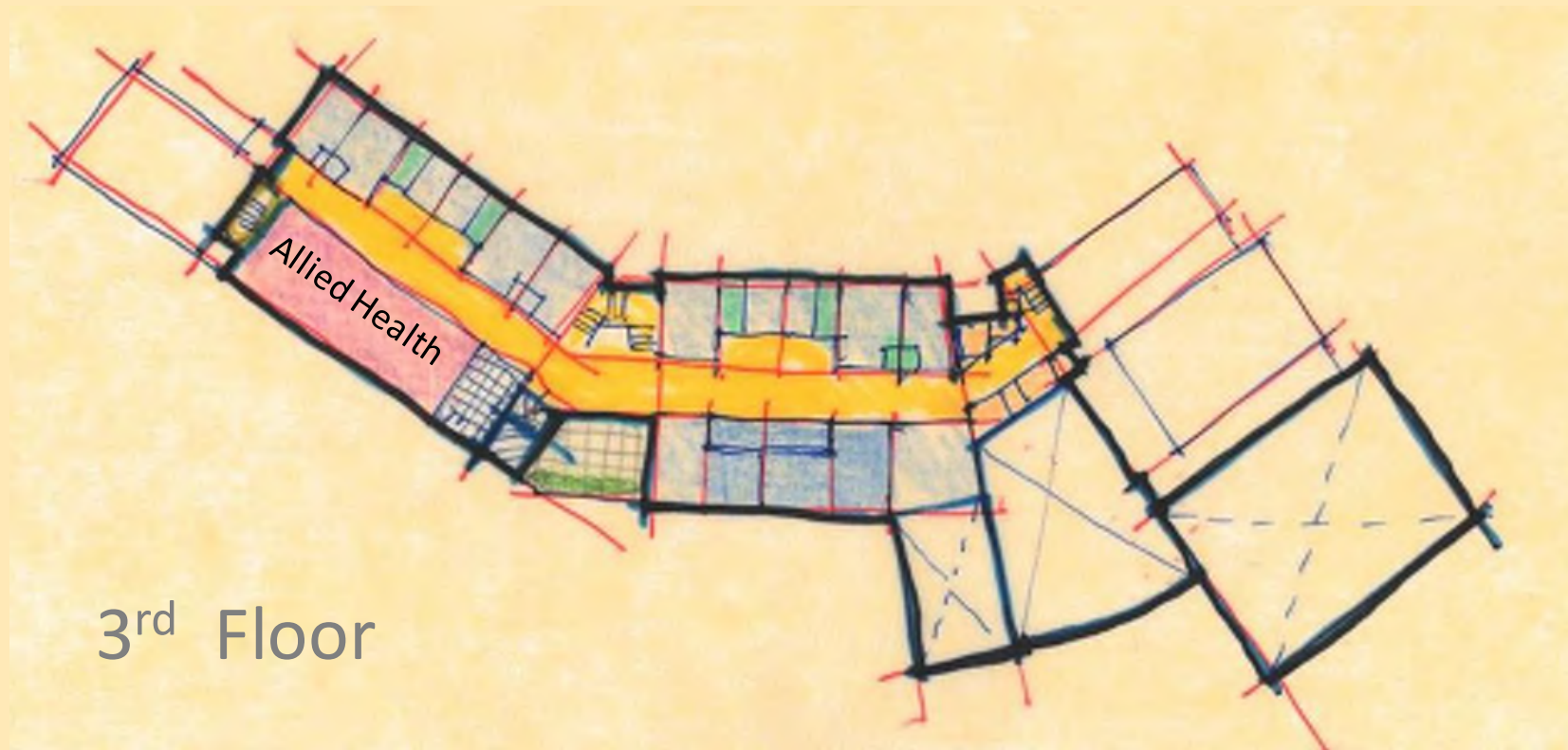
Wetland crossing to potential additional parking/ playing field



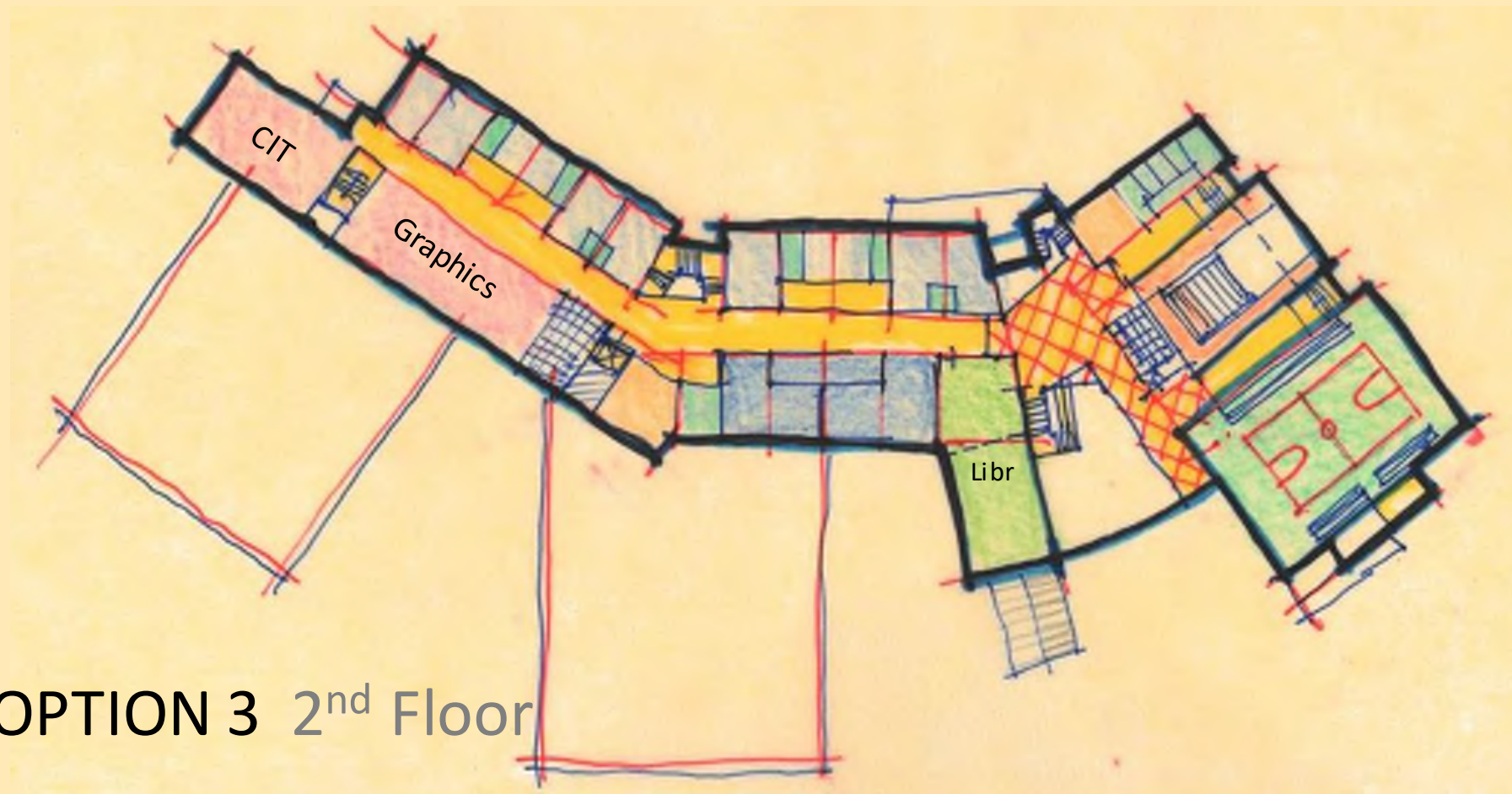


South Shore Tech OPTION 3 1<sup>st</sup> Floor



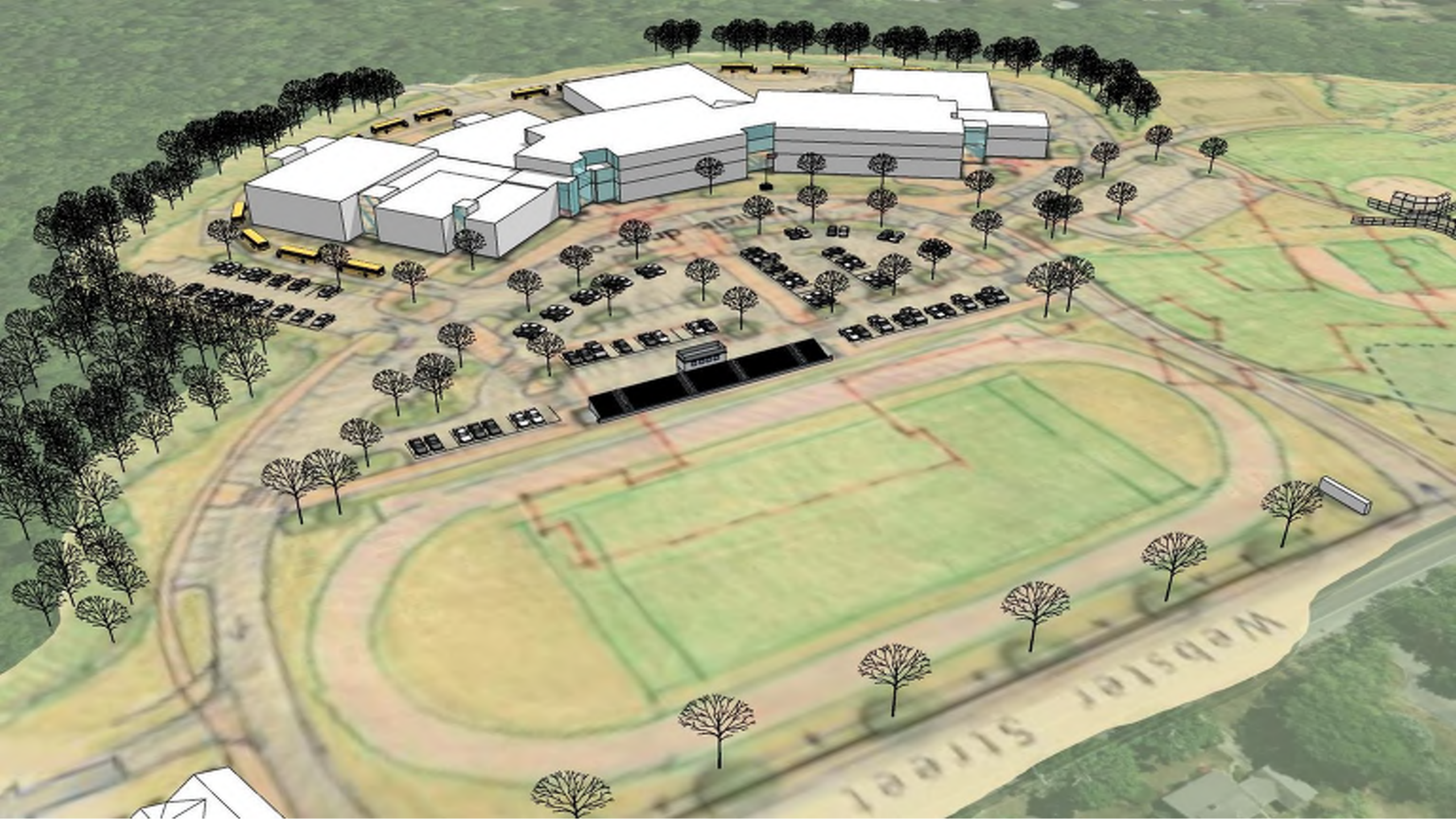


3<sup>rd</sup> Floor



South Shore Tech OPTION 3 2<sup>nd</sup> Floor





South Shore Tech OPTION 3 Site





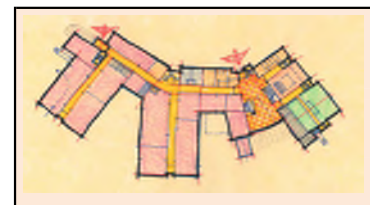
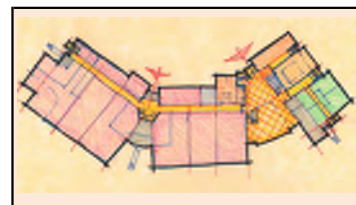
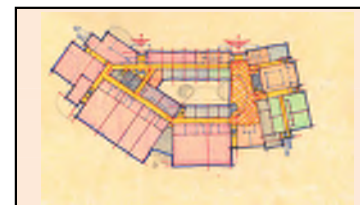
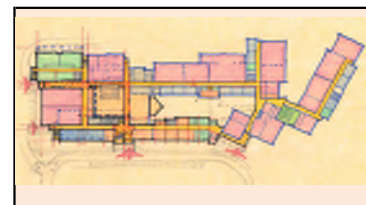
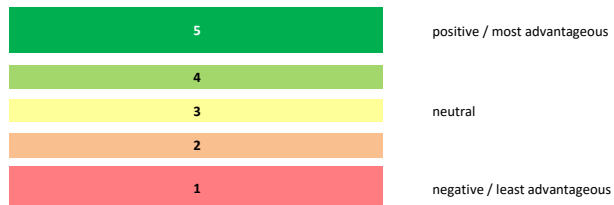




Preliminary Evaluation Matrix - South Shore Tech - Concept Options -

Updated:  
9/14/2023

Evaluation Criteria		Concept Options						
		MSBA Required	Renovation	Add/ Reno Options		New Construction Options		
Construction Duration:		multiple years	Renovation	<b>AR.1</b> <b>L - Shaped</b> 3+ years	<b>AR.2</b> <b>Lightwell</b> 4 years	<b>NC.1</b> <b>Courtyard</b> 2+ years	<b>NC.2</b> <b>Linear</b> 2+ years	<b>NC.3</b> <b>Wings</b> 2+ years
		Code Renovation						
1	Ed Plan Accommodation Compliance w/ Vision	doesn't address any educational deficiencies	Not Feasible - Existing Building cannot meet the Space Needs for Target Enrollment	Addresses most Space Needs Lacks meaningful integration of academic & CTE spaces	Addresses some Space Needs Gym & Lecture Hall remain undersized	Good Ed Plan conformance	Good Ed Plan Conformance	Best Ed Plan Conformance
2	Project Cost Reimbursable Cost Temporary Costs Long-term Value			Lower initial cost Higher reimbursment rate for renovation High temporary costs.	Lower initial cost Higher reimbursment rate for renovation Higher temporary costs long Term Value Poor	Higher Initial Construction Cost Good Long-Term Value	Higher Initial Construction Cost Good Long-Term Value	Higher Initial Construction Cost Good Long-Term Value
3	Disruption Impact on Students Construction Duration Phasing			Phased construction adjacent to occupancy Long construction schedule Multi-phase renovation	Phased construction adjacent to occupancy Long construction schedule Multi-phase renovation	Minimal impact on adjacent occupancy. Loss of Athletic Fields during construction. Short duration 2 phases: 1. New construction, 2 Demolition & Sitework	Minimal impact on adjacent occupancy. Loss of Athletic Fields during construction. Short duration 2 phases: 1. New construction, 2 Demolition & Sitework	Minimal impact on adjacent occupancy. Loss of Athletic Fields during construction. Short duration 2 phases: 1. New construction, 2 Demolition & Sitework
4	Flexibility Community Use Expansion Potential			Some Flexibility Good community use Limited expansion potential	Limited flexibility Limited community use, lack of Auditorium Limited expansion potential	Good Flexibility, Good Community access Limited expansion potential	Good Flexibility, Good Community access Limited expansion potential	Good Flexibility, Good Community access Limited expansion potential
5	Operating Costs Maintenance			Generally all new finish materials & systems Some existing infrastructure remains Limited Building envelope upgrade	Generally all new finish materials & systems Some existing infrastructure remains Limited Building envelope upgrade	All new construction, infrastructure, & MEP systems Best thermal envelope	All new construction, infrastructure, & MEP systems Best thermal envelope	All new construction, infrastructure, & MEP systems Best thermal envelope
6	Site Access Safety & Security Circulation/ Flow			Site circulation similar to existing Potential admin presence at existing public entrance Remains somewhat sprawling	Site circulation similar to existing Unchanged access to public shops Remains somewhat sprawling, disjointed	Site Approach focused on School Dedicated secure access to public shops Compact footprint, central student commons	Site approach along edge of property Dedicated secure access to public shops Long linear corridor	Site Approach focused on School Dedicated secure access to public shops Some dead-end corridors
7	Final Site layout amenities Abutters Site Impact to			Similar to existing No additional site amenities Minimal new impact to abutters	Similar to existing No additional site amenities Minimal new impact to abutters	Larger footprint in a constrained site Bus access at rear Enclosed outdoor courtyard Playing fields may impact abutters	Building layout follows buildable area Separate Buses and Car drop-offs in front Patio off of the Commons Playing fields may impact abutters	Wings create shared outdoor collaboration area Bus access at rear off of the Commons Patio Playing fields may impact abutters
8	Civic Image / Aesthetics			New "front door" and civic image	Minimal improved image Lesss opportunity to transform aesthetics	School setback from street Athletic fields & parking in front yard All new construction = all new image	School setback from street Athletic fields & parking in front yard All new construction = all new image	School setback from street Athletic fields & parking in front yard All new construction = all new image
<b>Totals</b>								



## Options for Further Consideration

At this time, the South Shore District is moving ahead with all five of the design and all five of the enrollment options, for a total of 25 preliminary options. The Building Committee in collaboration with the District School Committee anticipates narrowing this list of 25 options in the near future, early in the PSR phase of the project.







**SOUTH SHORE REGIONAL VOCATIONAL SCHOOL DISTRICT  
476 Webster Street, Hanover, MA 02339**

**JOINT MEETING OF  
SOUTH SHORE REGIONAL VOCATIONAL SCHOOL COMMITTEE  
AND  
SOUTH SHORE REGIONAL VOCATIONAL SCHOOL BUILDING COMMITTEE**

**Tuesday, February 7, 2023 – 12:30PM**

***This meeting is being held remotely:***

For public access to this Zoom meeting, dial 1-929-205-6099 and use Meeting ID 842 1826 4060 and Passcode 167216

**AGENDA  
(Revised)**

1. Call to Order of the School Committee and the School Building Committee
2. Agenda Items for the School Building Committee
  - a. Approve Minutes from December 6, 2022 **(Vote)**
  - b. Owner's Project Manager (OPM) Presentation on MSBA Process, Feasibility Study Budget and Draft Request for Services (RFS) for Designer Services
  - c. Increase to Feasibility Study Agreement Budget **(Vote)**
  - d. Draft Request for Services (RFS) for Designer Services **(Vote)**
  - e. Adjourn School Building Committee meeting **(Vote)**
3. Agenda Items for School Committee
  - a. Authorization from Stabilization Fund for Increased Feasibility Study Budget **(Vote)**
  - b. Adjourn School Committee Meeting **(Vote)**

Note: The listings of matters are those reasonably anticipated by the Chair, which may be discussed at the meeting. Not all items listed may in fact be discussed, and other items not listed may also be brought up for discussion to the extent permitted by law.

*Posted February 3, 2023*



**SOUTH SHORE REGIONAL VOCATIONAL SCHOOL DISTRICT  
476 Webster Street, Hanover, MA 02339**

**JOINT MEETING OF  
SOUTH SHORE REGIONAL VOCATIONAL SCHOOL COMMITTEE  
AND  
SOUTH SHORE REGIONAL VOCATIONAL SCHOOL BUILDING COMMITTEE  
Tuesday, February 7, 2023 – 12:30PM (Remote)**

**MINUTES**

Members present included School Committee/School Building Committee members Bob Mahoney, Bob Molla, Jack Manning, Dan Salvucci, Tom Petruzzelli, George Cooney and Frank Molla, as well as additional School Building Committee members Tom Hickey, Jim Harding and Bob Mello. Mark Aubrey, Keith Boyle and Jim Coughlin joined after the meeting was called to order.

Also present were LeftField representatives Jim Rogers, Jen Carlson, Linda Loporto, Adele Sands and Lynn Stapleton.

Absent was School Committee/School Building Committee member Bob Heywood and School Building Committee member Sandy Baldner.

Joint meeting was called to order at 12:30PM.

School Committee members were asked to identify themselves by name as the meeting was being held remotely.

Motion by Jack Manning, seconded by Bob Molla to suspend the School Committee meeting, conduct a School Building Committee meeting, and then reconvene the School Committee meeting.

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Mark Aubrey and Bob Mello.

Jim Harding abstained due to technical difficulties.

Nay: None

Vote: Unanimous

School Building Committee members who had not previously identified themselves were asked to do so at this time. Identified at this time were Superintendent Tom Hickey, Principal Mark Aubrey, and Vocational Coordinator Bob Mello. Facilities Director Jim Harding was on the call but, due to technical difficulties, was unable to respond.

Motion by Jack Manning, seconded by Tom Petruzzelli to approve minutes from the December 6, 2022 School Building Committee meeting.

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Mark Aubrey, Bob Mello and Jim Harding.

Nay: None

Vote: Unanimous

LeftField introduced team members present and shared a PowerPoint presentation outlining the MSBA process, Feasibility Study Budget and their draft Request for Services for Designer Services.

Several School Building Committee members raised hypothetical questions regarding wetland repositioning and the possibility of moving to town sewerage in the future.

Dan Salvucci confirmed with LeftField that the School Building Committee would have the final decision on design and with regard to the option of an update, addition/renovation or new construction.

Bob Molla asked about the possibility of relocating wetlands to maximize land space. We can relocate up to 5,000 square feet of wetlands.

Tom Hickey asked what the timeline would be for the School Building Committee to have information about a menu of design options and associated costs. LeftField responded that we should have information by December 2023.

Motion was made by Bob Molla, seconded by Dan Salvucci, to approve the submission of the Draft Request for Services for Designer Services to MSBA.

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Jim Coughlin, Mark Aubrey, Jim Harding, Bob Mello and Keith Boyle.

Nay: None

Vote: Unanimous

Motion was made by Jack Manning, seconded by George Cooney, to increase the Feasibility Study Agreement Budget from \$900,000 to \$2,000,000.

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Jim Coughlin, Mark Aubrey, Jim Harding, Bob Mello and Keith Boyle.

Nay: None

Vote: Unanimous

Motion was made by Dan Salvucci, seconded by Tom Petruzzelli, to adjourn from School Building Committee business to School Committee.

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Jim Coughlin, Mark Aubrey, Jim Harding, Bob Mello and Keith Boyle.

Nay: None

Vote: Unanimous

Motion was made by Dan Salvucci, seconded by Jack Manning, for the authorization of a total of \$2,000,000 from Stabilization Fund for increased Feasibility Study Budget.

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci.

Nay: None

Vote: Unanimous

Motion was made by Dan Salvucci, seconded by Tom Petruzzelli to adjourn.

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci.

Nay: None

Vote: Unanimous

Meeting was adjourned at 1:24PM.

**SOUTH SHORE REGIONAL VOCATIONAL SCHOOL DISTRICT  
476 Webster Street, Hanover, MA 02339**

**SOUTH SHORE REGIONAL VOCATIONAL  
SCHOOL BUILDING COMMITTEE MEETING**

**Thursday, June 1, 2023 – 3:30PM  
Brass Lantern Restaurant**

**MINUTES**

Members present included Bob Heywood, Bob Mahoney, Jack Manning, Tom Hickey, Jim Harding, Keith Boyle, Jim Coughlin and Bob Mello. Mark Aubrey, Bob Molla, Dan Salvucci, and George Cooney participated remotely.

Absent were Tom Petruzzelli, Frank Molla and Sandy Baldner.

Also present were LeftField representatives Jen Carlson and Linda Loporto and Drummey Rosane Anderson representatives Carl Franceschi and Judd Christopher. Crystal Paluzzi was present to provide technical support.

Meeting was called to order at 3:35PM.

Motion by Jack Manning, seconded by Dan Salvucci to approve minutes from the February 7, 2023 Joint School Committee/School Building Committee meeting.

Roll Call Vote:

Yea: Bob Heywood, Keith Boyle, Jim Coughlin, George Cooney, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Mark Aubrey, Bob Mello and Jim Harding.

Nay: None

Not Voting/Technical Difficulties: Bob Molla

Vote: Unanimous

Project Manager Jen Carlson of LeftField explained the LeftField OPM Contract Amendment #1 which sets the fee at \$400,000.

Motion was made by Tom Hickey, seconded by Bob Mahoney, to approve the LeftField OPM Contract Amendment #1 which sets the fee at \$400,000.

Roll Call Vote:

Yea: Bob Heywood, Keith Boyle, Jim Coughlin, George Cooney, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Mark Aubrey, Bob Mello and Jim Harding.

Nay: None

Not Voting/Technical Difficulties: Bob Molla

Vote: Unanimous

Jen presented two \$12,000 invoices for OPM services.

Motion was made by Bob Mahoney, seconded by Jack Manning, to approve the two invoices as presented by LeftField.

Roll Call Vote:

Yea: Bob Heywood, Keith Boyle, Jim Coughlin, George Cooney, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Mark Aubrey, Bob Mello and Jim Harding.

Nay: None

Not Voting/Technical Difficulties: Bob Molla

Vote: Unanimous

Jen Carlson introduced our design firm Drummey Rosane Anderson (DRA). Carl Franceschi and Judd Christopher from DRA made a presentation on their firm and early ideas about building options.

Jen Carlson reviewed the \$1 million contract for feasibility study and schematic design phases, which was \$100,000 less than the budget.

Motion was made by Bob Mahoney, seconded by Jack Manning, to approve the contract for designer services as presented by DRA.

Roll Call Vote:

Yea: Bob Heywood, Keith Boyle, Jim Coughlin, George Cooney, Bob Mahoney, Jack Manning, Tom Hickey, Mark Aubrey, Bob Mello and Jim Harding.

Nay: None

Not Voting/Technical Difficulties: Bob Molla, Dan Salvucci

Vote: Unanimous

Jen Carlson went over the project timeline showing that the Preferred Schematic Report is due by December 2023.

Next meeting was not determined at this time. It will likely be scheduled in the next month.

Motion was made by Jack Manning, seconded by Bob Mahoney to adjourn.

Roll Call Vote:

Yea: Bob Heywood, Keith Boyle, Jim Coughlin, George Cooney, Bob Mahoney, Jack Manning, Tom Hickey, Mark Aubrey, Bob Mello and Jim Harding.

Nay: None

Not Voting/Technical Difficulties: Bob Molla, Dan Salvucci

Vote: Unanimous

Meeting was adjourned at 4:39PM.



---

## SOUTH SHORE TECH HIGH SCHOOL PROJECT – Hanover, MA

---

### SCHOOL BUILDING COMMITTEE (SBC) PROJECT MEETING #3

---

Wednesday, August 9, 2023

Location: Zoom

6:00PM

#### **Access the Meeting:**

Please use this URL to join.

<https://us06web.zoom.us/j/87332674073?pwd=TnhmRXlDaGRzbURUZnBOZWRSURkZz09>

Or join by phone:

Call in number: +1 305 224 1968

Meeting ID: 873 3267 4073

Passcode: 989087

## **Agenda**

1. Project Approvals:
  - Meeting Minutes from June 1, 2023 SBC Meeting
  - DRA Architects Contract Amendment #1
  - Invoices – LeftField and DRA Architects
2. Schedule Update
3. Designer Updates:
  - Existing Conditions Assessment
  - Educational Visioning
  - Educational Plan
  - Space Summary
  - Site Requirements
  - Preliminary Options Review
4. Public comment
5. New business
6. Adjourn

**SOUTH SHORE REGIONAL VOCATIONAL SCHOOL DISTRICT  
476 Webster Street, Hanover, MA 02339**

**SOUTH SHORE REGIONAL VOCATIONAL  
SCHOOL BUILDING COMMITTEE MEETING**

**Wednesday, August 9, 2023 – 6:00PM  
(Remote)**

**MINUTES**

Members present included Bob Heywood, Jack Manning, Tom Petruzzelli, Tom Hickey, Keith Boyle (at 6:15pm), Jim Coughlin, Bob Mello, Bob Molla, Dan Salvucci, Frank Molla and George Cooney.

Absent were Bob Mahoney, Jim Harding and Sandy Baldner.

Also present were LeftField representatives Jen Carlson, Linda Loporto and Lynn Stapleton and Drummey Rosane Anderson representatives Carl Franceschi and Judd Christopher. Crystal Paluzzi was present to provide technical support.

Meeting was called to order by Chairman Bob Heywood at 6:03PM.

Bob announced an agenda adjustment that there would be no #5 – New Business tonight. He also noted that this meeting was being recorded.

Motion by Dan Salvucci, seconded by George Cooney to approve minutes from the June 1, 2023 School Building Committee meeting.

Roll Call Vote:

Yea: Bob Heywood, Jim Coughlin, George Cooney, Bob Molla, Jack Manning, Dan Salvucci, Tom Hickey, Bob Mello, Frank Molla and Tom Petruzzelli.

Nay: None

Not Voting/Technical Difficulties: Keith Boyle

Vote: Unanimous

Project Manager Jen Carlson of LeftField led the discussion for contract amendment and invoices. The contract amendment as for Environmental Site costs.

(Tom Hickey assisted Bob Heywood with seeking motions and roll call votes due to audio difficulties.)

Motion was made by Bob Molla, seconded by Dan Salvucci, to approve the DRA Architects Contract Amendment #1.

Roll Call Vote:

Yea: Bob Heywood, Jim Coughlin, George Cooney, Bob Molla, Jack Manning, Dan Salvucci, Tom Hickey, Bob Mello, Keith Boyle, and Tom Petruzzelli.

Nay: None

Not Voting due to Absence or Technical Difficulties: Frank Molla

Vote: Unanimous

Jen Carlson went over approval for invoices for July 2023 work by DRA and LeftField.

Motion was made by Bob Molla, seconded by Bob Mello, to approve the invoices as presented by LeftField.

Roll Call Vote:

Yea: Bob Heywood, Keith Boyle, Jim Coughlin, George Cooney, Bob Molla, Jack Manning, Dan Salvucci, Tom Hickey, Bob Mello and Tom Petruzzelli.

Nay: None

Not Voting due to Absence or Technical Difficulties: Frank Molla

Vote: Unanimous

Jen Carlson also provided a schedule update, showing a timeline. Tom commented on the options for the school committee to vote on bringing a preferred project to towns via town meetings or an early January districtwide ballot.

Jen Carlson recognized Carl Franchesci, DRA to provide a work update on Existing Conditions Assessment, Educational Visioning, Educational Plan, Space Summary, Site Requirements and Preliminary Options Review. By the end of September, the Existing Conditions Assessment, Visioning Report, and Educational Plan will be completed. Carl reviewed early plans on what could happen with a new school footprint and an addition/renovation. There were questions asked about wetlands and ground hole borings.

There was no public comment.

Motion to adjourn was made by Dan Salvucci, seconded by Bob Molla.

Roll Call Vote:

Yea: Bob Heywood, Keith Boyle, Jim Coughlin, George Cooney, Bob Molla, Jack Manning, Dan Salvucci, Tom Hickey, Bob Mello, Frank Molla and Tom Petruzzelli.

Nay: None

Vote: Unanimous

Meeting was adjourned at 7:14PM.

**SOUTH SHORE REGIONAL VOCATIONAL SCHOOL DISTRICT  
476 Webster Street, Hanover, MA 02339**

**JOINT MEETING OF  
SOUTH SHORE REGIONAL VOCATIONAL SCHOOL COMMITTEE  
AND  
SOUTH SHORE REGIONAL VOCATIONAL SCHOOL BUILDING COMMITTEE  
Thursday, September 7, 2023 – 6:00PM (Hybrid)**

**MINUTES**

Members present included School Committee/School Building Committee members Bob Mahoney, Bob Molla, Jack Manning, Dan Salvucci, Bob Heywood, George Cooney and Frank Molla, as well as additional School Building Committee members Tom Hickey and Bob Mello. Sandra Baldner (6:02pm) and Keith Boyle (6:25pm) joined after the meeting was called to order.

Also present were LeftField representatives Jim Rogers, Jen Carlson, Linda Loporto, Adele Sands and Lynn Stapleton.

Absent were School Committee/School Building Committee members Tom Petruzzelli and Frank Molla and School Building Committee member Jim Harding.

Joint meeting was called to order at 6:01PM.

Motion by Jack Manning, seconded by Bob Molla to suspend the School Committee meeting, conduct a School Building Committee meeting, and then reconvene the School Committee meeting.

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Mark Aubrey and Bob Mello.

Jim Harding abstained due to technical difficulties.

Nay: None

Vote: Unanimous

Motion by Jack Manning, seconded by Tom Petruzzelli to approve minutes from the December 6, 2022 School Building Committee meeting.

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Mark Aubrey, Bob Mello and Jim Harding.

Nay: None

Vote: Unanimous

LeftField introduced team members present and shared a PowerPoint presentation outlining the MSBA process, Feasibility Study Budget and their draft Request for Services for Designer Services.

Several School Building Committee members raised hypothetical questions regarding wetland repositioning and the possibility of moving to town sewerage in the future.

Dan Salvucci confirmed with LeftField that the School Building Committee would have the final decision on design and with regard to the option of an update, addition/renovation or new construction.

Bob Molla asked about the possibility of relocating wetlands to maximize land space. We can relocate up to 5,000 square feet of wetlands.

Tom Hickey asked what the timeline would be for the School Building Committee to have information about a menu of design options and associated costs. LeftField responded that we should have information by December 2023.

Motion was made by Bob Molla, seconded by Dan Salvucci, “to approve the draft RFS documents and submit the document to MSBA for their review.”

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Jim Coughlin, Mark Aubrey, Jim Harding, Bob Mello and Keith Boyle.

Nay: None

Vote: Unanimous

Motion was made by Jack Manning, seconded by George Cooney, “to increase our Feasibility Study Budget to \$2,000,000.”

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Jim Coughlin, Mark Aubrey, Jim Harding, Bob Mello and Keith Boyle.

Nay: None

Vote: Unanimous

Motion was made by Dan Salvucci, seconded by Tom Petruzzelli, to adjourn from School Building Committee business to School Committee.

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci, Tom Hickey, Jim Coughlin, Mark Aubrey, Jim Harding, Bob Mello and Keith Boyle.

Nay: None

Vote: Unanimous

Motion was made by Dan Salvucci, seconded by Jack Manning, for the authorization of a total of \$2,000,000 from Stabilization Fund for increased Feasibility Study Budget.

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci.

Nay: None

Vote: Unanimous



Motion was made by Dan Salvucci, seconded by Tom Petruzzelli to adjourn.

Roll Call Vote:

Yea: Tom Petruzzelli, George Cooney, Frank Molla, Bob Molla, Bob Mahoney, Jack Manning, Dan Salvucci.

Nay: None

Vote: Unanimous

Meeting was adjourned at 1:24PM.

**SOUTH SHORE REGIONAL VOCATIONAL SCHOOL DISTRICT  
JOINT MEETING OF  
SOUTH SHORE REGIONAL VOCATIONAL SCHOOL COMMITTEE  
AND  
SOUTH SHORE REGIONAL VOCATIONAL SCHOOL BUILDING COMMITTEE**

**SEPTEMBER 20, 2023  
476 Webster Street, Hanover, Massachusetts  
Brass Lantern Restaurant - 7:00 pm**

**AGENDA**

- 1. Call to Order of the School Committee and the School Building Committee**
- 2. Pledge of Allegiance**
- 3. Agenda Adjustments**
- 4. Public Comment**
- 5. School Building Initial Design Feedback**
- 6. Other Project Updates**
- 7. Adjourn School Building Committee Meeting (Vote)**
- 8. Student Recognition** – Lily McGann, Grade 12 Allied Health Student, Abington
- 9. Student Advisory** – Report from Lily McGann, our student representative for 2022-23. Lily is a senior from Abington in our Allied Health program.
- 10. Staff Recognition** – Carpentry Program Teachers
- 11. Approve Minutes (Vote)**
  - a. July 19, 2023 School Committee Meeting
- 12. Reports**
  - a. Treasurer
    - 1) Monthly Report **(Vote)**
    - 2) Warrants **(Vote)**
    - 3) Budget Transfers **(Vote)**
    - 4) Other
  - b. Superintendent-Director
    - 1) Proposed FY25 Budget Timeline
    - 2) FY24 Grants Update
    - 3) New Bus Update
    - 4) NEASC Accreditation 2026
    - 5) Administrator Reports
- 13. Old Business** – Admissions Policy – Second Reading **(Vote)**
- 14. New Business**
  - a. Approve MSBA Educational Plan **(Vote)**
  - b. Appoint Delegate to MASC/MASS Joint Conference **(Vote)**
  - c. Superintendent Annual Goals **(Vote)**
  - d. Donation – 1999 Jeep Cherokee Sport Utility from Scituate residents **(Vote)**
  - e. Surplus: **(Vote)**
    - 1) Culinary Arts – 5-Shelf Rotary 5-26x56 Reed Deck Oven
    - 2) Metal Fab Welding – Lincon Power Wave c300, Hypotherm Power Max 1250, Alliant Mill, Thermal Dynamics Pak Master 75 XL, Knuth KMR S 15/17 Power Roller, Behringer Eisele Cold Saw, Thermal Arc 3 and 1 Mig Tig Stick
- 15. Request for Action**
- 16. Adjourn School Committee Meeting (Vote)**

Note: The listings of matters are those reasonably anticipated by the Chair, which may be discussed at the meeting. Not all items listed may in fact be discussed, and other items not listed may also be brought up for discussion to the extent permitted by law.

*Posted September 14, 2023*

## JOINT MEETING of the SOUTH SHORE REGIONAL SCHOOL DISTRICT COMMITTEE and the SOUTH SHORE REGIONAL VOCATIONAL SCHOOL BUILDING COMMITTEE 9/20/2023

A joint meeting of the South Shore Regional School District Committee and the South Shore Regional Vocational School Building Committee was held on Wednesday September 20, 2023 at the South Shore Vocational Technical High School Building, 476 Webster St, Hanover, Massachusetts.

The District School Committee members present were Chairman Mahoney, Vice Chairman Petruzzelli, Messrs. Salvucci, Cooney, Manning (zoom), Absent: Messrs. F Molla, Heywood and R. Molla.

Also in attendance were Mr. Thomas J. Hickey, Superintendent of Schools; Mr. James Coughlin, District Treasurer; Principal Sandy Baldner, Crystal Paluzzi, Jen Carlson: Left Field (zoom), Sarah Carda: DRA (zoom), Judd Christopher: DRA, Assistant Principal Keith Boyle, Grant Montgomery, Scott Gilmartin, Scott McGrory, Eddie Costa, Bob Mello (zoom), Toni Bourgea, Matt Fallano, Student Representative Lily McGann and Lily's family.

**The meeting of the School Building Committee was called to order by Chairman Mahoney at 7:00pm.**

	<b>Motion</b>	<b>Second</b>	<b>Vote</b>
A motion to approve the minutes of the School Building Committee meeting on June 21, 2023.	<b>Mr. Cooney</b>	<b>Mr. Manning</b>	<b>Unanimous for those in attendance</b>

Jen Carlson from Left Field reviewed the timeline which included a 10/5/23 MSBA submittal due and the final preferred design due to MSBA by 12/28/23

Judd Christopher from DRA presented a power point presentation highlighting 3 new building options: Courtyard (2 floors), Linear (3 floors) and Wings (3 floors). Judd also presented two renovation plans: L Shaped and Courtyard.

A motion to adjourn the School Building Committee portion of the meeting at 7:43pm	<b>Mr. Salvucci</b>	<b>Mr. Petruzzelli</b>	<b>Unanimous</b>
--	---------------------	------------------------	------------------

Respectfully submitted:

James M. Coughlin, District Secretary/Treasurer

***Amended 10.24.23***

---

SOUTH SHORE TECH HIGH SCHOOL PROJECT – Hanover, MA

---

**JOINT MEETING OF THE SOUTH SHORE REGIONAL VOCATIONAL SCHOOL COMMITTEE  
AND THE SCHOOL BUILDING COMMITTEE (SBC)**

---

Date: Tuesday, October 24, 2023

Time: 7:00PM

Location: Zoom

Use this link to access the meeting:

<https://us06web.zoom.us/j/85274434960?pwd=U4NMJp5oEMICWzpQGTWAdl0l6rjCcQ.1Or>

join by phone:

Call in number - +1 646 558 8656

Meeting ID - 852 7443 4960

Passcode – 703629

## **Agenda**

1. Call Meeting to Order joint meeting of the South Shore Regional Vocational School Committee, and the School Building Committee
  - 2023-24 School Calendar adjustment for Veterans Day observance (School Committee vote)
2. Project Vote Process Review
  - Attorney Richard Manley presentation
  - Determination of how to bring MSBA project to voters (School Committee vote)
3. Amend Educational Program (School Committee vote)
4. Project Approvals
  - September 7, 2023 Meeting Minutes (School Building Committee vote)
  - September 20, 2023 Meeting Minutes (School Building Committee vote)

5. Preliminary Design Program (PDP) Summary

- Options Review
- Estimated Comparative Costs
- Vote to authorize submission of the Preliminary Design Program to the MSBA (School Building Committee vote)

6. Public Comment

- School Building Committee
- School Committee

7. Next Meeting and Upcoming Public Forums

8. Adjourn

- School Building Committee vote
- School Committee vote







**Thomas J. Hickey, Ed.D.**

*Superintendent-Director*

thickey@ssvotech.org

p 781.878.8822

f 781.982.0281

**South Shore Regional Vocational  
School District**

476 Webster Street

Hanover, MA 02339

www.southshore.tech

October 27, 2023

Mr. Mike McGurl  
Director of Capital Planning  
40 Broad Street  
Boston, Massachusetts 02109

Re: SST Feasibility Study  
Module 3 – Local Actions and Approval Certification

Dear Mr. McGurl:

The SST School Building Committee ("SBC") has completed its review of the Feasibility Study – Preliminary Design Program for the South Shore Regional Vocational Technical High School Project (the "Project"), and on October 24, 2023, the SBC voted to approve and authorize the Designer and the Owner's Project Manager to submit the Feasibility Study related materials to the MSBA for its consideration. A certified copy of the SBC meeting minutes from February 7, 2023 through September 20, 2023 is attached for record. The certified copy of the October 24, 2023 meeting minutes which includes the specific language of the vote and the number of votes in favor, opposed, and abstained will be sent along after their approval at the SBC's November 2, 2023 meeting.

Since the MSBA's Board of Directors invited the District to conduct a Feasibility Study on October 26, 2022, the SBC has held 5 meetings regarding the proposed project, in compliance with the state Open Meeting Law.

The following is a summary of SST SBC meetings held to discuss and/or present to the public material related to the Project since the Committee's inception. Where no action was required or taken, or where discussion is noted, please refer to the attached meeting minutes for additional detail. Notice for each meeting was posted at the SST School Department office and on the SST website.

**02/07/2023 12:30pm**

**SST School Building Committee Meeting - Remote Meeting**

---

Call to Order  
Owner’s Project Manager (OPM) Presentation on MSBA Process, Feasibility Study Budget and Draft Request for Services (RFS) for Designer Services  
Increase to Feasibility Study Agreement Budget  
Draft Request for Services (RFS) for Designer Services  
Adjourn

No action required/taken.  
  
No action required/taken.  
Motion taken/approved.  
  
Motion taken/approved.  
No action required/taken.

**06/01/2023 3:30pm**

**SST School Building Committee Meeting - In Person at South Shore Tech**

---

Call to Order  
Vote to approve meeting minutes  
Vote to approve invoices & commitments  
Designer Selection Process  
Project Schedule Update  
Next Meeting  
Adjourn

No action required/taken.  
Motion taken/approved.  
Motion taken/approved.  
No action required/taken.  
No action required/taken.  
No action required/taken.  
No action required/taken.

**08/09/2023 6:00pm**

**SST School Building Committee Meeting - Remote Meeting**

---

Call to Order  
Vote to approve meeting minutes  
Vote to approve invoices & commitments  
Project Schedule Update  
Designer Updates  
Public Comment  
New Business  
Adjourn

No action required/taken.  
Motion taken/approved.  
Motion taken/approved.  
No action required/taken.  
No action required/taken.  
No action required/taken.  
No action required/taken.  
No action required/taken.

**09/07/2023 6:00pm**

**SST School Building Committee Meeting - In-person Meeting at South Shore Tech**

---

Call to Order  
Vote to approve meeting minutes  
Vote to approve invoices & commitments  
Project Schedule Update  
Designer Updates  
Lessons Learned  
Public Comment  
New Business  
Adjourn

No action required/taken.  
Motion taken/approved.  
Motion taken/approved.  
No action required/taken.  
No action required/taken.  
No action required/taken.  
No action required/taken.  
No action required/taken.  
No action required/taken.

**09/20/2023 2:00pm**

**SST School Building Committee Meeting - Remote Meeting**

---

Call to Order  
Agenda Adjustments  
Public Comment  
School Building Initial Design Feedback  
Other Project Updates  
Adjourn

No action required/taken.  
No action required/taken.  
No action required/taken.  
No action required/taken.  
No action required/taken.  
No action required/taken.

**10/24/2023 7:00pm**

**SST School Building Committee Meeting - Remote Meeting**

---

Call to Order	No action required/taken.
Vote to approve meeting minutes	Motion taken/approved.
Preliminary Design Program Review	Motion taken/approved.
Vote to submit PDP to MSBA	Motion taken/approved.
Next Meeting and Upcoming Community Forums	No action required/taken.
Adjourn	No action required/taken.

---

In addition to the SBC meetings listed above, the District held one community meeting, at which the Project was discussed. Formal meeting notes were not kept for this community meeting.

**South Shore Tech Community Forum #1**

*Open meetings w/ brief informational presentation followed by public comment.  
No formal meeting notes were taken.*

**10/06/2022 4:00pm**

**South Shore Tech Community Forum #1 Remote Meeting**

- 
- Team Introductions
  - The MSBA Process
  - Project Timeline / Project Milestones
  - Design Team Updates:
    - Existing Building and Site Conditions Analysis
    - Educational Visioning
    - Site Options
  - More Community Feedback Opportunities
  - Questions & Answers
- 

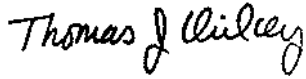
Agendas, meeting minutes, and presentation materials for each of the above listed meetings are available for public viewing electronically via the following links:

- For SBC information: <https://southshorettechproject.com/>
- For School Committee Information: <https://southshore.tech/school-committee/>

To the best of my knowledge and belief, each of the meetings listed above complied with the requirements of the Open Meeting Law, M.G.L. c. 30A, §§ 18-25 and 940 CMR 29 *et seq.*

If you have any questions or require any additional information, please contact Jen Carlson via e-mail at [jcarlson@leftfieldpm.com](mailto:jcarlson@leftfieldpm.com).

By signing this Local Action and Approval Certification, I hereby certify that, to the best of my knowledge and belief, the information supplied by the District in this Certification is true, complete, and accurate.

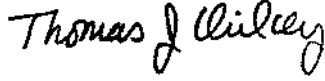


**By: Dr. Thomas Hickey**

**Title: Chief Executive Officer**

**Date:** 10/27/23

By signing this Local Action and Approval Certification, I hereby certify that, to the best of my knowledge and belief, the information supplied by the District in this Certification is true, complete, and accurate.



**By: Dr. Thomas Hickey**

**Title: Superintendent of Schools**

**Date:** 10/27/23

By signing this Local Action and Approval Certification, I hereby certify that, to the best of my knowledge and belief, the information supplied by the District in this Certification is true,



**By: Robert Mahoney**

**Title: Chair of the School Committee**

**Date:** 10/27/23









# MEMORANDUM

Date: September 26, 2023

To: Daniel Glazer, AIA, LEED AP  
Drummey Rosane Anderson, Inc.

From: Bradley C. McKenzie/Susan B. Spratt, P.E.

Regarding: South Shore Vocational Technical High School      MEG Project No.: 223-190  
PDP Section 3.1.4 – Detailed Evaluation of Existing Conditions - Civil

---

## Overview

The following are preliminary research and findings of the existing site infrastructure and potential site development requirements for a proposed renovation of and/or expansion to the South Shore Vocational Technical High School, located at 476 Webster Street in Hanover, Massachusetts (see Figure 1: Aerial View).

### *476 Webster Street – Main Campus*

The main campus of the South Shore Regional Vocational High School is located at 476 Webster Street in Hanover, Massachusetts. The Hanover Assessor's Map shows the parcel as Map 10, Parcel 19, comprising approximately 42.7 acres. The parcel is located within the Residence A Zoning District. It has frontage on Webster Street to the west. It is bordered by developed residential properties and the school property at 436 Webster Street to the north, developed residential properties to the south and east, and Webster Street to the west. This parcel comprises the main school building and ancillary buildings to the east, consisting of a maintenance building, a greenhouse, a barn/locker room, and a concession building. The athletic fields are located east of the school and the ancillary buildings. Concrete walkways, asphalt parking areas, athletic fields, and a mix of wooded and grassed landscaped areas surround the main school building.

### *436 Webster Street – Future Satellite Administrative Offices*

South Shore Regional Vocational School District recently acquired and improved the property at 436 Webster Street for future satellite offices for the administrative staff. The Hanover Assessor's Map shows the parcel as Map 10, Parcel 37, comprising approximately 2.15 acres. It is located within the Residence A Zoning District with frontage on Webster Street to the west. The parcel is bordered by developed residential property to the north, east, and west. The main campus abuts the property to the south. The improvements to the property consisted of renovating the existing residence into administrative offices and constructing a 24-foot-wide bituminous concrete access road connecting the parking lot at the northeast corner of the main campus to a parking area comprised of 24 bituminous concrete parking spaces. A subsurface stormwater management system was constructed behind the existing structure. In addition, seven (7) crushed stone parking spaces were constructed along the existing driveway to the barn.

## Overview (Civil + Infrastructure)

The existing utility information was obtained from existing record plans and previous surveys performed by MEG. Most of the utility services supporting the school building were either installed

as part of the original construction in 1962 or the 1992 addition. The original septic system was constructed in 1986. Some services have been constructed over the past ten years to accommodate the ancillary buildings east of the main building. This feasibility study aims to analyze the current state of the existing South Shore Vocational Technical High School infrastructure and the need for infrastructure improvements.

All utilities (water, gas, drain, septic system, electric & cable/data) are available within the property's immediate vicinity. Record plans show water and gas mains within the Webster Street layout, while electric, telephone/data utilities are located overhead.

For any renovations and/or expansions, it is anticipated that the existing water services (domestic and fire protection to be determined as viable for reuse by the MEP Engineer), gas, and electric infrastructure will need to be further evaluated to determine viability/capacity. The existing septic system at 476 Webster Street is undersized based on information provided by the school on the number of current and future students and staff. For all conditions, the design will probably incorporate a wastewater treatment plant designed and permitted in accordance with the Mass. Groundwater Discharge Permit Program (314 CMR 5.00) as the design flow will exceed the 10,000 gallons per day threshold for a Title 5 septic system (310 CMR 15.00).

It is anticipated that an expanded stormwater management system would be required per Massachusetts DEP Stormwater Management Regulations (2008) to accommodate any campus expansion/renovation project.

### **Site Access and Circulation**

#### *476 Webster Street – Main Campus*

Access to the main campus is provided via two (2) unsignalized one-way bituminous concrete access driveways intersecting with Webster Street along the frontage at the property's western boundary. The entrance to the main campus is marked as two (2) lanes and is approximately 40 feet wide at its southerly intersection with Webster Street. The bituminous concrete access roads from the entrance are over 24 feet wide and continue around the building, providing access to the entire school, parking areas, and the athletic fields. The exit from the main campus is marked as one lane and is approximately 50 feet wide at its Webster Street intersection.

Upon a preliminary review, the driveway widths greater than 24 feet for 2-way traffic and greater than 20 feet for one-way traffic are adequate for the property's current use (Section 9.0 of the Town of Hanover Zoning Bylaw).

#### *436 Webster Street – Future Satellite Administrative Offices*

Access to the future satellite administrative offices is through an approximate 10-12 ft. wide driveway intersecting with Webster Street to the west. A 24-foot-wide bituminous concrete access road provides access from the parking area behind the existing structure to the existing parking lot at the northeast corner of the main campus at 476 Webster Street,

### *Recommendations*

An expanded existing conditions survey on Webster Street is needed to review sight distances, slope, surface drainage, and the feasibility of possible driveway relocations to determine if the existing site access at Webster Street is sufficient for both properties. In addition, the driveway entrance and driveway for 436 Webster Street should be widened to a minimum of 20 feet for one-way traffic for future use.



**Parking and Pavement**

Parking and Pavement conditions will be reviewed by the Landscape Architect.

**ADA / MAAB Compliance**

ADA / MAAB compliance will be reviewed by the Landscape Architect.

**Soils**

Soil information was obtained from the Online Web Soil Survey Browser. The Natural Resource Conservation Service (NRCS) has identified the soil on the site as Norwell Mucky Fine Sandy Loam, 0 to 3 percent slopes, extremely stony (49A, Hydrologic Soil Group (HSG) D); Birchwood Sand, 0 to 3 percent slopes (320A, Hydrologic Soil Group (HSG) B/D).

Soil testing conducted by McKenzie Engineering Group, Inc. (MEG) in various locations identified the soils as loamy sand. Due to the potential wide-ranging soil properties, we would recommend on-site soil testing in campus areas that may undergo expansion/site renovation, particularly with respect to any expanded stormwater management system or wastewater treatment plant that will be constructed.

**Water Service***476 Webster Street – Main Campus*

According to record documents (1986 and 1992 construction drawings and Town of Hanover Water Dept.) and previous field surveys conducted by MEG, the main campus building built in 1962 is serviced by a 6-inch domestic water service that enters the front of the building. This service is connected to a 12-inch water main located within the Webster Street layout. The main portion of the building constructed in 1962 is not sprinkled, so there is no separate fire protection line. A separate 8-inch ductile iron water service installed for the addition constructed in 1992 connects to the same water main and extends to the south and east sides of the building, where it terminates at a hydrant. A 6-inch ductile iron fire service and 4-inch ductile iron domestic service branch off this service and enter the south side of the building. A water sampling station was also installed off the 8-inch service near Webster Street as part of the 1992 improvements. The maintenance, greenhouse, barn/locker room, and concession buildings located to the main school building's rear (east side) are serviced by individual 1 and 1 ½ inch P.E. water services extending from the rear of the main school building. Record drawings and conversations with the maintenance staff indicate that these services were installed in 2015 and 2018 when the buildings were constructed.

Five (5) existing fire hydrants are also located throughout the site (See Figure 2).

*436 Webster Street – Future Satellite Administrative Offices*

Record documents indicate that the future satellite administration building is serviced by a 1-inch copper water service that connects to the 12-inch water main located within the Webster Street layout.

*Recommendations*

Any future expansion/renovation of the school building at 476 Webster Street will require an upgrade to provide a fire protection service line to the main building for a sprinkler system, with the potential for a larger water main extension throughout the property. The capacity and condition of all existing domestic and fire services will need to be evaluated by the project MEP to determine the viability for reuse. A hydrant flow test is recommended before design to determine the

available volume and pressure of the existing services.

## Sanitary Sewage

### *476 Webster Street – Main Campus*

According to record documents (1986 and 1992 construction drawings and Town of Hanover Board of Health) and previous field surveys conducted by MEG, the existing main campus building is serviced by a Title 5 (Mass. State Environmental Code 310 CMR 15.00) subsurface sanitary sewage disposal system (septic system) located in the front (westerly side) of the school building. The system is comprised of sanitary sewer services, septic tanks, grease traps, pump chambers, and three (3) soil absorption fields (SAS).

Per record documents, two (2) 6-inch gravity sewer services exit the rear (east side) of the main school building built in 1962 and convey flows to a pump chamber located within the parking area east of the building. In 2023, one of the six-inch gravity sewer services collapsed, and a new service was installed outside the building and within the parking lot, conveying flows to the pump chamber. This chamber pumps flows through a 4-inch ductile iron force main around the east and south sides of the building and discharges into a pump chamber located at the building's front (west side). Wastewater is then pumped through three (3) 4-inch force mains to the three (3) soil absorption systems (SAS) located at the western portion of the site near Webster Street. The pumping chamber, grease traps, septic tanks, and force mains were installed in 1992. Records indicate that the soil absorption systems at 476 Webster Street were constructed in 1986. Wastewater from the maintenance building, barn/locker room, and concession building located to the rear (east side) of the main school building flows through various pipes to the pump chamber within the parking area east of the building, where it is pumped through the same 4-inch force main to the pump chamber on the east side of the building and eventually to the SAS. The services associated with these buildings were constructed between 2015 and the present.

The 1992 plans indicate a gravity sewer (size unknown) conveys flows from the auto body shop section of the building to a sealed 500-gallon tank.

Record documents indicate that an external 1,500-gallon grease trap is located outside the school building's west side, which accepts food preparation flow from a 6-inch sewer that flows from the kitchen in the restaurant. The sewer then conveys flow from the grease trap to a 3,000 septic tank and then flows by gravity through an 8-inch PVC pipe to the pump chamber. These structures and piping were also constructed in 1992.

Record documents indicate that a holding tank, also installed in 1992, is present in the front of the building to accept industrial waste from the cosmetology lab of the building.

A 2,500-gallon fiberglass-tight tank accepts flows from the portion of the maintenance building that was constructed in 2015.

Conversations with maintenance staff indicate that the septic tanks at 476 Webster Street have been regularly maintained and pumped twice per year.

### *436 Webster Street – Future Satellite Administrative Offices*

The existing building is served by a Title 5 septic system consisting of a sanitary sewer pipe that exits at the front, a septic tank, a pump chamber, and a soil absorption system at the property's southeast corner. Records indicate that this system was constructed in 2005.

### *Recommendations*

Records indicate that the soil absorption systems at 476 Webster Street were constructed in 1986 and should be nearing the end of its useful life. The existing septic system at 476 Webster Street is undersized based on information provided by the school on the number of current and future students and staff. The capacity and condition of all existing sanitary sewer services will need to be evaluated in conjunction with the project MEP to determine the viability for reuse. The videotaping of the sanitary sewer piping is also recommended to determine the structural integrity of the pipes.

For all conditions, the design will most likely incorporate a wastewater treatment plant designed and permitted in accordance with the Mass. DEP Groundwater Discharge Permit Program (314 CMR 5.00) as the design flow will exceed the 10,000 gallons per day threshold for a Title 5 septic system (310 CMR 15.00).

### **Stormwater Management**

#### *476 Webster Street – Main Campus*

The stormwater management system information was compiled from record documents (2015 and 1992 construction drawings) and previous field surveys and as-built plans prepared by MEG. An existing on-site stormwater infrastructure captures overland stormwater runoff from impervious and grassed areas on the school property. Per record documents and previous surveys conducted by MEG, storm drainage from impervious and grassed surfaces (bituminous concrete access roadways, parking areas, and landscaped areas) sheet flows to a series of catch basins located throughout the property (See Figure 3). A closed drainage system located within parking areas at the front (west) and side (north) collects runoff conveyed through pipes and eventually discharges to the bordering vegetated wetland to the schools north at a concrete headwall. A 30-inch culvert flows from the concrete headwall southerly across the site under the athletic fields and discharges into the BVW located south of the athletic fields (See Figure 4 for the headwall at the 30-inch drain inlet). A closed drainage system to the rear (east) and side (south) of the building accepts runoff and conveys it to a stormwater detention basin located southeast of the building (See Figure 5). This portion of the system and the basin were constructed as part of the 1992 addition project. There appear to be numerous roof drains that connect to drainage structures throughout the closed drainage system on site (See Figure 6).

A drainage system consisting of catch basins, closed drainage piping, and a subsurface infiltration system was installed as part of the construction of the maintenance building in 2015. This system connects to a closed drainage system that extends in a northerly direction to the headwall at the 30-inch culvert.

A separate closed drainage system with inlet structures was constructed in connection with the 2020 baseball field renovation project. These structures were installed in the eastern portion of the field to alleviate seasonal flooding caused by runoff and high groundwater conditions. A 6-inch PVC drain pipe connects these structures by gravity to the catch basin located northwest of the field that drains to the 30-inch culvert that conveys flows under the fields.

#### *436 Webster Street – Future Satellite Administrative Offices*

As part of the improvements to the property, a drainage system complying with the Massachusetts DEP Stormwater Policy Regulations (2008) standards was designed and installed in 2023 to capture and treat stormwater runoff from impervious and grass areas from the parking lot and access road behind the existing structure. The drainage system consists of deep-sump catch

basins with hooded outlets, proprietary pre-treatment structures, a subsurface infiltration on the property, and a detention system at 476 Webster Street. Stormwater runoff from the subsurface infiltration system discharges to a 12-inch flared end section, eventually entering the bordering vegetated wetlands south of the property. Runoff from the subsurface detention system located at 476 Webster Street discharges into the closed drainage system within the parking area on the north side of the main campus building, eventually entering the bordering vegetated wetland to the school's north at a concrete headwall (See Figure 4).

### *Recommendations*

As part of any renovation and/or program expansion to the site, modifications and/or additions to the stormwater infrastructure may be needed to account for increases in impervious surfaces and/or changes in runoff patterns. Any upgrades to the stormwater management systems at 476 Webster Street will be required to comply with the Massachusetts DEP Stormwater Policy Regulations (2008) standards. We recommend conducting a complete investigation of these drainpipes and appurtenances in collaboration with the project MEP as part of any base repair, renovation, or expansion project that should include cleaning and videotaping the on-site conveyance system to determine the structural integrity of the drain pipes.

## **Natural Gas Service**

### *476 Webster Street – Main Campus*

According to record documents (Eversource and 1985 and 1992 construction drawings) and previous surveys conducted by MEG, the original school building built in 1962 is serviced by two (2) 2-inch gas services in the front (west side) of the building that connects to an existing 6-inch main located within the Webster Street layout. The maintenance and greenhouse buildings are fed by gas lines from the rear (east side) of the main school building.

### *436 Webster Street – Future Satellite Administrative Offices*

The ½-inch P.E. gas service enters the front of the building and connects to the 6-inch gas main within the Webster Street layout.

### *Recommendations*

The maintenance staff for the school indicates that there are presently no issues with the gas service at either property. The capacity and condition of all existing natural gas services will need to be evaluated by the project MEP to determine the viability for reuse.

## **Electric/Telecom Service**

### *476 Webster Street – Main Campus*

According to record documents (National Grid and 1986 and 1992 construction drawings) and previous surveys conducted by MEG, the electrical service for the 1992 school building addition emanates from a utility pole within the Webster Street layout and extends underground in conduits to the school building and connects to a transformer located on the south side of the building. A generator is also located at this location (See Figure 7). A separate, underground direct burial service extends from a utility pole within Webster Street and enters the front of the original 1962 building. The electrical service for the maintenance, greenhouse, barn/locker room, and concession buildings to the rear (east) of the school building runs underground from the rear of the school building.

A 2019 construction project involved the installation of several light poles at the football field /track (See Figure 8). The electrical service to these poles runs through a conduit from utility poles within the Webster Street layout along the northern side of the parcel to a transformer located at the northeast corner of the parking lot near the athletic field (See Figure 9). The lighting system for the field is fed through underground conduits from this transformer.

Telecom service also appears to run underground from a utility pole within the Webster Street layout to the front of the school building.

#### *436 Webster Street – Future Satellite Administrative Offices*

Electrical service for the building runs overhead on utility poles on the property and connects to a utility pole within the Webster Street layout (See Figure 10). Electrical service for the barn/garage is located north of the building and runs underground in a conduit from the rear of the building to the barn/garage. A generator is also located in the building's rear (west side). Additionally, solar panels are located on the roof of the building, and it is assumed that these panels supplement the building's electrical supply from Eversource (See Figure 11).

It is presumed that the telecom service also runs overhead on utility poles on the property and within the Webster Street layout to the building.

#### *Recommendations*

It is presumed that electric and telecom services would continue to be fed off the existing infrastructure. The maintenance staff for the school indicates that there are presently no issues with the electricity and telecom services. The capacity and condition of all existing electric and telecom systems will need to be evaluated by the project MEP to determine the viability for reuse.

#### **Wetland Resource Areas**

##### *476 Webster Street – Main Campus*

The site contains bordering vegetated wetlands (BVW) extending beyond the developed portion of the school property to the north, east, and south. There is also an inland bank resource associated with an unnamed intermittent stream that flows seasonally in a southerly direction from the BVW complex at the abutting 436 Webster Street parcel to a 30-inch culvert which conveys flows southerly across the site under the athletic fields and discharges into the BVW located to the south of the athletic fields.

The boundaries of most of the resource areas were approved under an Order of Resource Area Delineation issued by the Hanover Conservation Commission (Commission) on April 1, 2019. This permit has elapsed, and the wetland resource areas are in the process of being re-delineated by a wetland botanist and an Abbreviated Notice of Resource Area Delineation (ANRAD) Application will be filed with the Commission for re-approval of the boundaries of these resources in the near future.

##### *436 Webster Street – Future Satellite Administrative Offices*

The property also has BVW and an inland bank from the same unnamed intermittent stream located to the south of the developed portion of the property. The limit of bordering vegetated wetlands (BVW) was delineated by Environmental Consulting & Restoration, LLC, on February 17, 2022, and approved under an Order of Conditions issued by the Hanover Conservation Commission on September 15, 2022.



Both properties are located within Zone X, as shown on the current FEMA Flood Insurance Rate Map Panel No. 25023C0113K, effective July 6, 2021. No other adjacent parcels are located within FEMA Flood Zones (See Figures 12 and 13).

### *Recommendations*

Wetlands resource areas are protected by the Massachusetts Wetlands Protection Act (MGL Ch. 131 S. 40), Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00), and the Hanover Wetlands Protection Bylaw and Wetlands Protection Regulations. The Bylaw Regulations are more restrictive than the Wetlands Protection Act Regulations as they impose a 35-ft. no-disturb buffer. It is presumed any new construction will encroach on resource areas or their associated buffer zones due to their close proximity to existing developed areas and that an Order of Conditions permit approving the project will be required from the Commission.

### **Permitting:**

#### **Planning Board Site Plan Approval Process**

Any new construction or proposed redevelopment requires submittal to the Hanover Planning Board for Site Plan Review (Zoning Bylaws Section 10.00). Section 10.00 outlines the specific requirements to obtain Site Plan Approval. In addition to submitting the application and project plans, an Environmental Impact Report, a Stormwater Management Report, and a Stormwater Management Construction Phase and Post-Development Phase Operation and Maintenance Plan detailing the entire project scope may need to be submitted to the Planning Board for project approval.

#### **Conservation Commission Approval Process**

Wetlands resource areas are protected by the Massachusetts Wetlands Protection Act (MGL Ch. 131 S. 40), Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00), and the Hanover Wetlands Protection Bylaw and Wetlands Protection Regulations. It is presumed any new construction will encroach on resource areas or their associated buffer zones due to their proximity to existing developed areas and that an Order of Conditions approving the project will have to be obtained from the Commission. The wetland resource areas are in the process of being re-delineated by a wetland botanist. The first step in the approval process is filing an Abbreviated Notice of Resource Area Delineation (ANRAD) Application will be filed with the Commission for approval of the boundaries of these resources. The Commission will review the flagged boundaries and eventually issue an Order of Resource Area Delineation (ORAD), which approves the wetland boundaries for three (3) years. Once final construction plans have been developed, a Notice of Intent Application and related documents will be filed with the Commission for approval of the construction project.

#### **Wastewater Treatment Plant Approval Process**

For all design alternatives, the design will most likely incorporate a wastewater treatment plant designed and permitted in accordance with the Massachusetts Groundwater Discharge Permit Program (314 CMR 5.00) as the design flow exceeds the 10,000 gallons per day threshold for a Title 5 septic system (310 CMR 15.00). The permitting authority is the Southeast Regional Office of the Massachusetts Department of Environmental Protection.

#### **EPA NPDES Construction General Permit (CGP) and Stormwater Pollution Prevention Plan (SWPPP)**

An NPDES Construction General Permit (CGP) and a Stormwater Pollution Prevention Plan

(SWPPP) will need to be obtained by the contractor from the EPA before construction should disturbance associated with the property exceed 1 acre.

### **Conclusion**

The project team is evaluating possible renovations and/or additions to the main school campus at 476 Webster Street. Any development alternative may require replacement/renovation of utility lines, additional/realigned parking, and further investigation of pavement and compliance with ADA. All development alternatives will involve maintaining existing emergency response areas and providing safe student drop-off and pick-up areas. A detailed phasing plan would be required to ensure the school remains fully operational during construction.

Civil/Site Infrastructure Photos



Figure 1: Aerial View



Figure 2: Hydrant Located at the Parking Lot at the Rear of the School Building





*Figure 3: Catch basin at the parking lot at the rear of the school building*



*Figure 4: Concrete Headway for 18-Inch and 30-Inch Outlet Pipes*





*Figure 5: Stormwater Detention Basin*



*Figure 6: Typical Roof Leaders Connecting to Closed Drainage System*





*Figure 7: Transformer and Generator on the South Side of the School Building.*



*Figure 8: Light Pole at the Athletic Field*



*Figure 9: Transformer on the North Side of the Building for Athletic Field Lighting*



*Figure 10: Overhead Electric and Telecom Services for 436 Webster Street*





Figure 11: Solar Panels at 436 Webster Street



Figure 12: Map of Resource Areas from MassMapper GIS Database

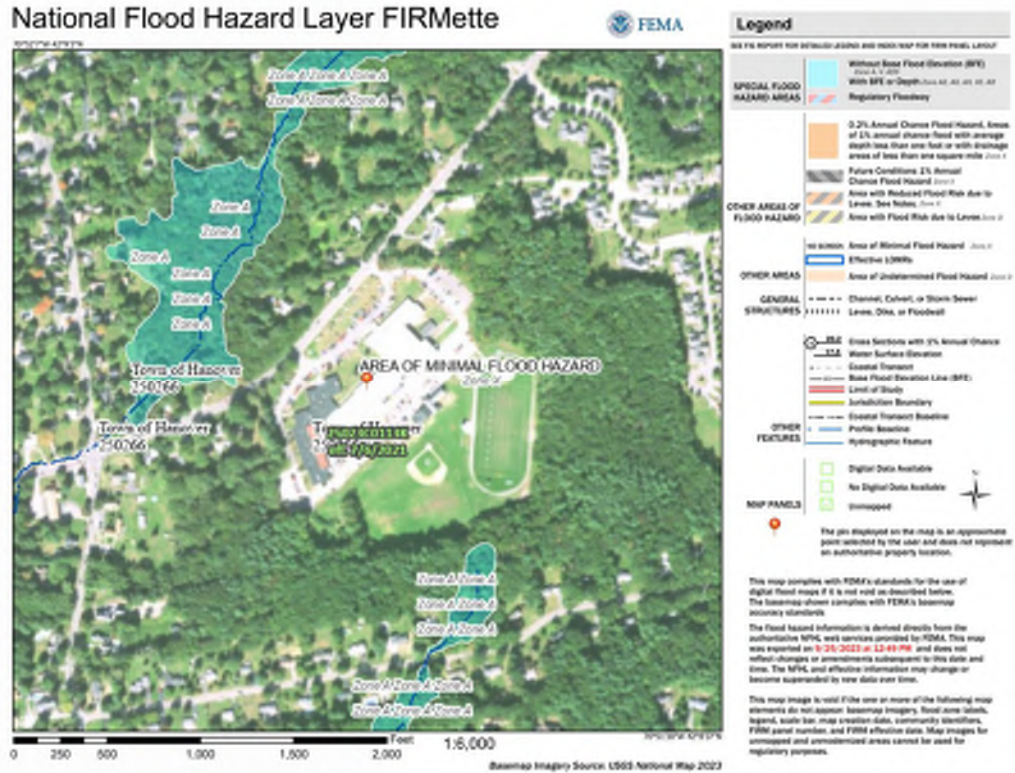


Figure 13: FEMA Floodplain Map







**WARNER LARSON**  
LANDSCAPE ARCHITECTS

September 28, 2023

**South Shore Regional Vocational Technical High School**  
Landscape Existing Conditions Report & Site Development Requirements

**Property**

Address: 476 Webster St. Hanover MA 02339

**Site Configuration**









The existing South Shore Regional Vocational Technical High School site is bordered by wooded areas to the south and east. An area of wetlands lies between the school's facilities and these woodlands. The school is adjacent to residential properties to the west and to the north, across Webster Street. This street, also known as Highway 123, serves as the vehicular access to the site. A portion of the property extends southwest to Main Street. The mostly one-story existing school building is located on the northern half of the site. The southern half of the site contains the school's sports fields.

### **Physical Conditions Summary**

The existing school building is oriented toward Webster Street where two driveways access the site serving a main drop-off in front of the school, creating a one-way loop from the southern entrance to the northern exit. There are several parking spaces at this front face of the school, while the majority is in the rear and north side of the building.

The property's highest point is the northern corner of the site and generally slopes to the south, dropping in elevation approximately 12 feet. A wetland area extends around the athletic fields and the southern edge of the property. The school's leaching field is in the landscape area in front of the building. Refer to separate WWTP narrative by McKenzie Engineering.

### **3.1.5 Site Development Requirements**

The items described within this section identify existing conditions and programmatic or regulatory requirements to be considered in the development and evaluation of alternative site designs, and are further depicted on the existing site plans.

#### **Structures and Fences**

Fencing will be provided to separate pedestrian and athletic facilities from vehicular areas as appropriate. Netting systems may be required for ball control due to site spatial constraints. Fencing will also be provided to buffer service/mechanical areas as required.

Retaining walls will be incorporated as required by the proposed building and site design to negotiate grade changes and provide accessibility.

#### **Site Access and Circulation**

Pedestrian access is provided to the site from surrounding neighborhoods via a sidewalk on the south side of Webster Street. However, there are no sidewalks or crosswalks within the site that connect this public sidewalk to the school's entrance or to the walkway in front of the building. Similarly, pedestrians must either walk on roadways or lawn areas around the building, as no dedicated ADA accessible walkways are provided. Nor is ADA access provided to the school's baseball field, which is at the bottom of 6'-high grass slope.

Cars use a one-way dropoff loop in front of the school, with the entrance on the west and exit on the east. This loop is approximately 400' long and is shared with parking, which limits access to parking spaces during drop-off and pick up periods. There are considerable traffic backups during the morning dropoff and afternoon pickup periods. Buses use the same entrance and exit but drop off and pick up students behind the school.

### Webster Street Entrance



The service area is at the rear of the building. It conflicts with the parking in this area so that deliveries have to be scheduled late at night. There is currently only 1 loading bay – a minimum of 1 additional bay is needed. Trash and recycling compactors are needed to reduce the current daily pickups.



## **Parking**

There are 144 staff parking spaces, 123 student, 32 visitor, and 9 school vehicle spaces, for a total of 308. This is insufficient parking for current or future needs. Student parking is in the lot north of the school while staff parks in the front and rear of the building.

Buses are parked on the southwest side of the school but must be moved on the weekends due to complaints from a neighbor. The buses are moved to the entrance to the athletic fields, which creates conflicts with pedestrians as they walk between the buses and out into traffic lanes.

## **Weekday Bus Parking**



## **Paving and Curbing**

Paving and curbing will be specified per applicable Town of Hanover and/or state standards. Asphalt paving of vehicular driveways and parking is typical. Walkway paving will include different materials such as asphalt, concrete and unit pavers based on location and use.



Existing curbing is precast concrete in poor condition. In several locations no curbs are provided. New curbing will include vertical granite at walkways and high impact areas and possibly Cape Cod asphalt berm at low impact areas along landscaping.

### Storage

The school lacks adequate storage for its programs and classes. It has acquired a number of Conex boxes and miscellaneous sheds of varying sizes that are scattered around the site. Any renovations or new structures should include adequate storage for all the school's needs.



### Accessibility

The site drops off approximately 12' from the entrance on the north to the south. This means that the elevations adjacent to the doors on the sides and rear of the building are lower than at the front. Many of these entrances have only stairs and are not ADA accessible. In order to be code-compliant ADA ramps need to be provided at each of these entrances.

### Examples of Entrances That are not ADA Compliant



ADA parking and curb ramps are provided in the parking area adjacent to the main entrance on Webster St. However, no ADA parking or accessible ramps or walkways are provided on the rest of the site.

There is an existing accessible route to the track, softball and football fields. However, there is no accessible route to the baseball field.

### **Emergency Vehicle Access**

Emergency access is provided to the building from Webster St. and around the building via the parking lots and driveways.

### **Safety and Security Requirements**

Access from Webster St. should be maintained and improved to accommodate the largest emergency vehicles. The design of the site and landscape is an important component to providing a safe educational environment and ability for building occupants to egress safely during emergencies.

Strategies including providing transition zones between vehicular and pedestrian areas with barriers to stop vehicles, while allowing pedestrian egress, should be considered. Clear sightlines at eye level and from security cameras and adequate site lighting should also be included in the improvements to the school.

### **Athletic Facilities**

The outdoor sports facilities are used for the following events:

- Football (Varsity, JV and Freshman)
- Boys Varsity soccer (no JV team)
- Girls Softball (both Varsity and JV)
- Cross Country (Varsity)
- Baseball (both Varsity and JV)
- Boys Lacrosse (both Varsity and JV)
- Girls Field Hockey (Varsity)
- Co-Ed Track Team

The existing stone dust track and irrigated natural grass field is positioned in an advantageous north-south orientation. However, the track is in poor repair, lacks defined edges and varies in

width, and has no defined lanes. Similarly, the dual football and soccer field is uneven and badly worn, and is subject to standing water during rain events.

The east facing bleachers accommodate approximately 200 spectators. This is inadequate seating for the more than 300 people who attend football games. The bleachers are aluminum deck and seats on an aluminum structure but are not ADA accessible. The wooden press box only has stair access.



The sports lighting at the football and baseball fields is in satisfactory condition and includes ball trackers at the baseball field. The softball field does not have lighting.

A recently installed concession and ticket kiosk, and restroom facilities appear to be in good condition and to be code compliant.



Electronic scoreboards with steel posts have been provided for the football and baseball fields.



There is a softball field that is oriented to the south and which overlaps with the natural grass multipurpose field used for football and soccer practice. The northern football goalposts must be removed when a softball game is played and then reinstalled. The truck and equipment used for this purpose causes damage to the turf.





The fields have an in-ground irrigation system. The water source is a well located in front of the existing school building.

There are no fences around the perimeter of this combined field area. A temporary outfield fence is used for baseball games.

### Outdoor Educational Spaces

A large courtyard on the north side of the building provides opportunities for informal gathering and outdoor dining. The east end has several metal picnic tables set on the lawn.



The horticulture department uses a dedicated area west of the parking lot for student projects and research.





The horticulture department also uses the area outside its greenhouse for growing plants that are sold in its plant sales.



### **Site Lighting Design Standards**

Site lighting shall be designed with the lower illumination levels consistent with good design practice and IESNA recommendations. Maximum illumination levels shall not exceed 5 foot-candles at any location. Light trespass shall be limited to 0.25 foot-candles at all property lines, except at curb cuts. Fixtures and poles shall be compatible in style with on-site buildings.

Maximum pole height shall be 24 feet in parking lots and 16 feet along pedestrian walkways and in pedestrian areas. Maximum height for building mounted fixtures shall be 10 feet above finished grade of properties directly abutting offsite residences, except for balcony fixtures and as required by State Building Code.

Fixtures shall avoid upward projection of light consistent with “dark skies” principals and shall avoid point sources of light visible from off-site locations. All exterior lighting shall be energy efficient and shall incorporate zones and timers to reduce lighting levels at non-peak times.

### **Landscape Character and Other Location Considerations**

A wooded area bordered by wetlands exist south and east of the athletic fields. The woodlands include a number of mature native trees.



Some invasive species such as oriental bittersweet, glossy buckthorn and Japanese knotweed were observed in these wooded areas. A vegetation management plan to remove invasive species is in keeping with the zoning landscape requirements.

These woodlands offer many opportunities for passive recreation including walking paths and outdoor learning activities, as well as running paths for the cross country program.

**End of Report**



## Existing Conditions Report (ECR)

### Original Building (including the 1978 addition)

#### Structure:

This structure is comprised mostly of concrete footings and foundation walls, concrete floor slabs and structural steel with metal roof deck. Generally these appear to be in good shape with no major concerns or recommendations

#### Interiors Finishes - Walls:

##### Corridors:

Typically, these are either glazed CMU block or painted CMU block and are generally in good condition. The corridor in the science wing is painted CMU block with some exposed brick.

##### Lobby:

Walls are either exposed brick or glazed CMU block and are generally in good condition. Vocational Shops:

Typical demising partitions in the vocational shops are painted CMU. There are a few locations where there is glazed CMU and some gypsum wallboard. Generally the walls are in good condition.

##### Academic and Related Classrooms:

Typical demising walls at the classrooms are gypsum wallboard or plaster. There is some wood paneling added to these walls. Most of these rooms were revised recently. Generally they are in good condition.

##### Science Classrooms:

Walls here are painted CMU block and are generally in good condition. Modular Classrooms:

Walls are modular wall panels and are generally in fair condition.

##### Vocational Shops:

Walls on the vocational shops are typical painted CMU. There are a few locations where there is glazed CMU and some gypsum wallboard. Generally the walls are in good condition.

##### Gymnasium:

Walls at the gym are both glazed CMU block and painted CMU block and are generally in good condition.

##### Locker Rooms:

Walls are typically either glazed CMU block or painted CMU block and are in good to fair condition (there was some areas of damaged glazed block by exterior locker room entrance).

##### Weight Room:

Walls are gypsum wallboard and are in fair condition.

##### Cafeteria:

Walls at the entrance nodes to the cafeteria are exposed brick. The walls at the server are painted CMU. Walls between the entrance node at the corridor are gypsum wallboard. All walls are generally in good condition.



**Kitchen:**

Walls in the kitchen are glazed CMU and are in good condition.

**Teacher Dining:**

Walls at teacher dining area are a mix of painted CMU block and gypsum wallboard, both in good condition.

**Library:**

Walls at the library are similar to those at the academic classrooms.

**Administration and Guidance Areas:**

Walls at these spaces are typically gypsum wallboard and are generally in good condition. There are a few painted CMU walls within the main administration suite. Some walls in offices also contain wood paneling (in good to fair condition).

**Nurse:**

Walls in the nurse's area are painted CMU and are in good condition.

**Interiors Finishes - Wall Base:**

Wall base throughout the building is a vinyl base of varying heights. Generally, it is in good to fair condition. DRA would recommend some select areas for replacement.

**Interiors Finishes - Floors:****Corridors:**

Floors in the corridor are terrazzo and are in excellent condition (minimal signs of cracks). The corridor in the science wing is VCT and is original to its construction date. Replacement would be recommended as part of a renovation project.

**Lobby:**

Similar to corridors noted above.

**Shops:**

Most of the vocational shops have a concrete floor with sealer. Most are in good condition. Some areas of cracking should be patched. Floors should be sealed every three to five years. The MET#1 shop has a new epoxy flooring which is in excellent condition. The Carpentry shops has an existing wood floor that is in fair condition. It will most likely need replacement in the near future. The Allied Health shop has VCT flooring.

**Academic and Related Classrooms:**

All classrooms have VAT flooring which should be replaced as part of a major renovation project.

**Science Classrooms:**

Science classrooms have 12 x 12 VCT that was recently replaced.

**Modular Classrooms:**

The modular classrooms also have VCT in fair conditions. There were some areas of cracking noticed.

**Gymnasium:**

The wood flooring in the gymnasium is in fair condition. It is original to the 1962 project and is reaching the end of its useful life. Replacement of this flooring should be part of a renovation project.

**Locker Rooms:**



The boy's locker room floor is a painted concrete (not sealed). It is in fair to poor condition and should be refinished in the near future. The girl's locker room floor has a thin coat epoxy floor which is peeling. A thicker epoxy flooring would be recommended as a replacement.

**Weight Room:**

The weight room floor is an athletic rubber tile in good to fair condition.

**Cafeteria:**

The cafeteria floor is a 12 x 12 VCT floor that was replaced well the 1990's addition was completed. While it is in good to fair condition, we would recommend replacement as part of a renovation project.

**Kitchen:**

The kitchen floor is quarry tile and is in good condition.

**Teacher Dining:**

Similar to cafeteria noted above.

**Library:**

The library floor is carpet and is in fair condition. Replacement would be recommended as part of a renovation project.

**Administration and Guidance Areas:**

The administration suite has VCT similar to the cafeteria. The guidance suite has carpet in fair condition.

**Nurse:**

The nurse's area has VAT similar to the typical classroom. The toilet room within the nurse's suite does have ceramic tile flooring.

**Interior Finishes – Ceilings:**

**Corridors:**

Ceilings in the 1960's corridors are plaster in good to fair condition. There are also several skylights within the ceiling. Some have been blocked up as part of the recent roof replacement project. In general, existing plaster ceilings will be recommended for removal and replacement with a high noise reducing acoustic panel ceiling. The corridor in the science wing is ACT in fair condition. There were areas noted where the panels are sagging.

**Lobby:**

Similar plaster ceiling as noted in corridors above.

**Shops:**

Typical vocational shops have exposed ceilings to the roof structure. Some also contain skylights. The Allied Health shop has a 2x4 ACT ceiling in good to fair condition.

**Academic and Related Classrooms:**

The typical classrooms also have a plaster ceiling. It is noted that these ceiling have been tested and do not contain asbestos.

**Science Classrooms:**

The science classrooms have 2x4 ACT ceilings in fair condition. There were areas where stained tiles were noted.

**Modular Classrooms:**



The modular classrooms have a modular panel ceiling that looks similar to gypsum wallboard. They are in good to fair condition.

**Gymnasium:**

The gymnasium also has an exposed ceiling and is in good condition.

**Locker Rooms:**

The boy's locker room has an exposed ceiling and the girl's locker room has an ACT ceiling in fair condition (some sagging tiles).

**Weight Room:**

The weight room has a gypsum wallboard ceiling in good condition.

**Cafeteria:**

The ceiling in the cafeteria is a plaster ceiling with some 1x1 panels adhered to the plaster ceiling. We would recommend replacing the ceiling with a high NRC panel for acoustical reasons.

**Kitchen:**

The kitchen has a washable 2x2 ACT ceiling in good to fair condition.

**Teacher Dining:**

The teacher dining area has a new 2x4 ACT ceiling in good condition.

**Library:**

The ceiling in the library is a sloped plaster ceiling in good condition.

**Administration and Guidance areas:**

The ceiling in the administration suite is 2x4 ACT in good to fair condition. The ceiling in the guidance suite is plaster with some minor areas with ACT.

**Nurse:**

The ceiling in the nurse's area is plaster.

**Interior Finishes – Windows & Doors:**

**Windows:**

All of the exterior windows in the original building were replaced under the 2011 roof and window replacement project. They are double pane, aluminum windows and are in good condition. Most of the spaces also have window shades. The existing Kalwall sections in the gymnasium were also replaced with aluminum windows. Some of the replacement windows also have metal panel section framed within the aluminum frame.

**Interior Doors:**

Typical interior doors throughout the original building are wood doors in good to fair condition. The doors vary from solid wood doors, doors with vision panels, and door with half glass. The one exception is there are hollow metal doors within the guidance suite. As part of a larger renovation project, we would recommend replacement of these doors.

**Exterior and Facade:**

**Exterior:**



Typically the exterior skin is brick and in good condition. There were some minor spots where cracks in the brick were evident. The mortar is also generally in good condition. It should be noted that there was some repointing done to the mortar as part of the 2011 window and roof replacement project. There were also some minor areas of spalling identified (see photos). The weep holes within the brick appear to be open and in good working condition. At the main entrance, there is evidence of some potential water run-off from entrance canopy and there is some moss growth on one side of the brick pier. This should be investigated further as part of the potential renovation project. There were also some signs of water runoff from the existing gymnasium roof that is discoloring the bricks below.

There are some areas of exposed concrete that has held up well but there were some minor areas of cracks. There is also some exposed concrete soffits and large overhangs.

There is a weight room addition that was added to east side of the existing gymnasium. Access to the space from the gymnasium is through stairs and is therefore not considered accessible. There is an interior exit ramp to exterior doors which lead to a concrete landing which is not level with the ground. There is no gutter at the weight roof and there is moss growth of the existing fascia board. The exterior of the addition appears to be a thin brick panel veneer that has some damaged panels.

The modular building appears to also have a thin brick panel veneer. Below the brick is some plastic sheeting panels that close the structure to the ground. Some of these panels have been damaged. There is also a wood stair and corridor platform that is showing its age. There is a secondary means of egress from the middle modular classroom that is not considered accessible.

The science area that was an addition to the original building and constructed in the late 70's. Its structure's exterior skin is also brick and match the original building. There are some minor areas of spalling as efflorescence present here. This structure also has some exposed concrete typically at ground level. The dust collector from the construction shop is located at a corner of the building from the loading dock is located. There is evidence of damage to the dust collector from trucks hitting it. This should be moved as part of a renovation project. There is also metal equipment attached to the walls in this building and there is some minor rusting on the brick below the equipment.

There was a canopy addition built onto the construction shop. This is an open structure which acts as overflow space for the shop. There is some damage to the fascia here that should be repaired. There is also a separate addition added onto the metal fabrication shop. This appears to be a metal building

attached to the original building. The exterior skin is brick veneer panel. There is also a wood guard rail at the metal fabrication shop which is worn and should be replaced.

#### Exterior Window System:

Exterior window systems, including doors and operable sash are worn and despite possible additional utility should be replaced to afford energy efficiency and to renew them economically as part of the larger building project.

#### Roof:

The roof on this building was replaced as part of the 2011 window and roof replacement project. The roof appears to be in good condition with no problem areas of water infiltration. The building has a metal roof edge with some areas of metal soffits below the roof edge. The soffits and roof edge appear in good condition.

#### Accessibility Issues and Concerns:



There are several accessibility issues in the original building. These need to be corrected or waived by obtaining a variance from the Massachusetts Architectural Access Board (MAAB). Full compliance with MAAB regulations is required when the scope of work exceeds 30% of the full and cash value of the building. The main accessibility issues are as follows:

Entrances and egress points are generally not accessible. Compliant handicap ramps would need to be designed at these locations.

There are several locations of entrance doors that are pair of doors less than 3'-0" wide. These doors would need to be replaced with at least one unit at 3'-0" wide.

There are several push/pull clearance non-compliance at interior doors, mostly at typical classroom entrances. These would need to be reconstructed.

Some of the existing toilet room layouts have been modified to help address accessibility issues, but they would not be considered fully compliant.

Some of the existing door hardware is non-compliant.

## 1992 Addition

### Structure:

This structure is comprised mostly of concrete footings and foundation walls, concrete floor slabs and structural steel with metal roof deck. Generally, these appear to be in good shape with no major concerns or recommendations

### Interiors Finishes - Walls:

#### Corridors:

Walls in the corridors in the addition are typically glazed CMU block. They appear to be generally in good condition.

#### Lobby:

Similar to corridors noted above.

#### Vocational Shops:

Demising walls at vocational shops are typically gypsum wallboard and are generally in good condition. There is some wall padding on the walls in the electrical shop. The Auto Body shop has CMU block walls that are painted and in good condition.

#### Restaurant:

Walls at the restaurant are typically gypsum wallboard and in good condition.

#### Culinary Kitchen:

Walls in the culinary kitchen are gypsum wallboard with a ceramic tile wainscot (typically at 4'-0" A.F.F).

#### Academic and Related Classrooms:

Demising walls at classrooms are gypsum wallboard and in good condition.

#### Lecture Hall:

Walls at the lecture hall are gypsum wallboard and are in good condition. There are some acoustical wall panels (metal with insulation) attached to the walls.



**Wall Base:**

Wall base throughout the building is a vinyl base of varying heights. Generally, it is in good to fair condition. DRA would recommend some select areas for replacement.

**Interiors Finishes - Floors****Corridors:**

Corridors in the addition are typically 12 x 12 VCT. Generally, these are in good to fair condition but should be replaced.

**Lobby:**

Similar to corridors noted above.

**Vocational Shops:**

There is a mix of flooring in the shop areas. VCT is the flooring in the horticulture lab, cosmetology, MET #2, and computer information technology lab (CIT). Sealed concrete is the flooring in auto body, graphics, and the electrical shop. All are in good to fair condition.

**Restaurant:**

Flooring in the restaurant is mostly carpeting.

**Culinary Kitchen:**

The culinary kitchen has a quarry tile floor with a quarry tile base. Both are in good condition.

**Academic and Related Classrooms:**

Classrooms in the addition have 12 x 12 VCT flooring in good to fair condition.

**Lecture Hall:**

The lecture hall flooring is predominantly carpet with VCT under the raised seating areas. Both are in good condition.

**Interior Finishes – Ceilings:****Corridors:**

The corridors in the addition have a hard gypsum wallboard ceiling (not plaster).

**Lobby:**

Similar to corridors above.

**Vocational Shops:**

Most of the shops have a 2X4 ACT ceiling except exposed ceilings in the electrical and auto body shops.

**Restaurant:**

The restaurant ceiling is a 2X2 ACT ceiling and is in good to fair condition. Culinary Kitchen:

The culinary kitchen has a 2X4 washable ACT ceiling.

**Academic and Related Classrooms:**

Classroom have 2X4 ACT ceilings in good to fair condition.

**Lecture Hall:**

The lecture hall ceiling is exposed to the structure above. We would most likely recommend adding some acoustical materials to these hard surfaces.





**Interior Finishes – Windows & Doors:****Windows:**

The windows in the addition are original to the construction date. They are aluminum frame windows, double pane, with varying operable sashes. They are starting to break varying parts handles which the Owner is finding it difficult to find replacement parts. We would recommend replacement of these systems in a larger renovation project. The windows also have a metal panel material at lower sections. These metal panels are in good to fair condition.

**Interior Doors:**

Doors in the addition are a mix of both wood and hollow metal with hollow metal frames. Both appear in good working condition.

**Exterior:**

The exterior of the addition is made up primarily of jumbo size brick (larger than standard brick which is on the original building). There are also sections where there is both ground and split face CMU block. Both the brick and block appear in good condition. The mortar for the brick and CMU is also in good condition. There is also some exposed concrete in various areas around the addition. There is some minor staining at the concrete near the public entrance. There is also some rusting/staining at the curtain wall by the public entrance. The entrance storefronts are worn and are showing their age. The caulking at these storefronts was recently replaced. There is a bump at the entrance door which may make it non-accessible. Controls appear to be in good condition. There are some sealants around the windows in the addition that are showing cracks. These sealants should be replaced in the near future.

The roof on the addition is original to its construction date and was not replaced as part of the 2011 window and roof replacement project. The roof has reached the end of its useful life. Replacement of this roof should be part of a renovation project. There is typically a fascia that runs along the roof edge. There are some minor spots of rusting on this fascia.

**Accessibility Issues & Concerns:**

There are fewer accessibility issues or concerns with the addition. Since this building was built in the early 90's, it does follow the more recent accessibility codes, with some minor issues that don't comply with current regulations. For example, the single toilet rooms within shops are sized appropriately for current MAAB regulations. However, there is a requirement that sinks have a 30" x 42" clear space in front of them, for which doors can't swing into this clear space. Most of the existing doors swing into the spaces which conflict with the clear space. There also appears to be some additional handicap accessibility issues around varying entrance and exits.

**Greenhouse:**

The recently completed greenhouse appears to be functioning as expected for a relatively new structure.

**Modular Building:**

There is a modular building to the east of the existing science labs. It is not connected to the original building and is accessed by leaving the original building and accessing an open corridor for access to the individual room of the modular. This raises some serious security concerns.



The rooms within the building are also small for typical academic classrooms. The building was installed in the early 2000's. We would not recommend maintaining structure as part of a larger renovation project.

**Maintenance Building:**

The maintenance building is currently under constructed but is slated to be complete in the near future. This will be the office area for the facilities department which will open up some space within the main school building. The building also contains a 3-bay garage with some storage space.

**The Storage Barn:**

The storage barn is a wood-framed two story structure that mostly has unfinished space. It is typically used for storage. There are two toilet areas but the toilets are not functioning. With the maintenance building coming online, the existing storage barn could be cleared of storage and used for some potential educational space. The toilet rooms would need to be upgraded if this space was to be re-purposed.

**Concessions Building**

The concessions building is another out building near the paly filed area. It is also wood framed construction and was built within the last two years. It contains an area for concessions, some storage areas and individual men's and women's toilets. We would recommend no changes to this structure.





Evidence of moss growth on brick pier near main entrance  
- water runoff from canopy above



Main Student Entrance doors by student parking lot.  
Entrance is not considered accessible.





Photo at weight room expansion shows moss growth on existing fascia. Is there an issue with water buildup on the roof?



Damage to lower wall sheeting at the modular classroom expansion.







There are some minor sections where concrete base wall has some damage. These sections should be patched as part of a larger renovation project.



There were some areas, particularly under windows, where some masonry re-pointing would be suggested.







These appear to be some settlement cracks which should get patched.



Damage to section of dust collector - hit by trucks in the loading dock area.





Typical window assembly at the 1992 addition - windows above with operable sections and metal wall panels below.



Bump in concrete at back egress doors to the "courtyard" area - may need to be leveled for access.





Gutter and downspout at 1992 addition - need to repair damaged fascia. Gutters and downspouts are starting to rust out.



Typical exterior column detail at the 1992 addition.







There were some minor spots of efflorescence noted in the 1992 addition.



Evidence of rusting at the windows frame in the 1992 addition.





Secondary means of egress from the cafeteria is not considered accessible.



Elevated teachers areas, located in several shop areas (such as automotive and electrical shops), are not considered accessible and should be replaced.







Interior photograph of the seating at the lecture hall. Will need to provide handicap accessible spaces at both the upper and lower level seating areas.



Electrical shop - elevated teacher station, not accessible. Also shows upper storage areas which is present in several shop areas.





Typical exterior hose bib connection - masonry to repaired / patched.



Interior of the carpentry shop. The shed structure is the office area and is not accessible.





Interior of the Metal fabrications shop. Finishes are typical for most large vocational shop areas.



Typical corridor within the existing building. Finishes are typical - terrazzo flooring, glazed CMU block and plaster ceiling with skylights (some have been covered).





Pair of doors at egress at a pair of 2'-8" doors which are not considered accessible. Doors should be replaced with one leaf at least 3'-0" wide.



Modular classroom expansion with wood frame entrance stairs and ramp.





**Academic Classrooms**

Existing Square Footage

Most are between 740 to 820 square feet (modulars are smaller)

Ideal Square Footage

805 square feet (825sf minimum per MSBA requirements)

Floor Material

9x9 VAT tile (does contain asbestos)

Base Material

Vinyl base

Walls

Gypsum wallboard with low wood paneling (recently added)

Ceilings

Plaster ceiling (does not contain asbestos)

Windows

Aluminum with operable units and shades (recently replaced - 2011)

Doors

Wood doors (entrance door not accessible - push/pull clearance)

Casework

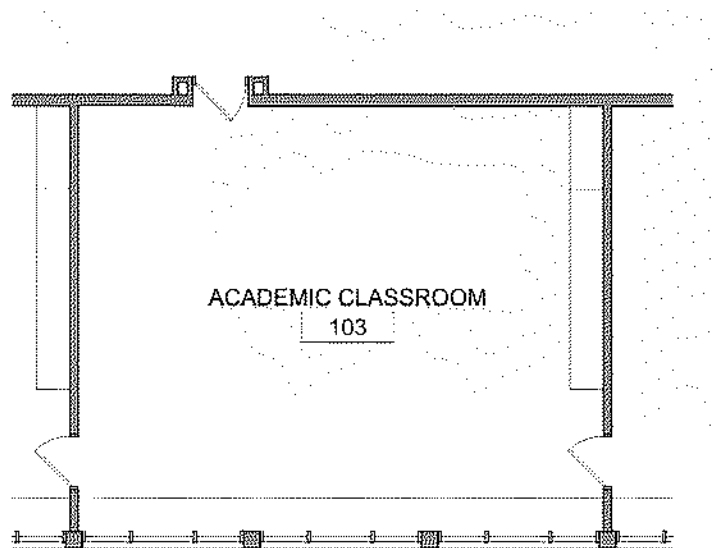
Shelving along window wall - other casework has been removed

Equipment

Smartboard, MB/TB, clock, phone - typical for each classroom

Notes

Rooms were recently renovated - classroom entrance not accessible



Recommendations

Replace VAT flooring with linoleum flooring (less maintenance)

Replace plaster ceiling with new high NRC ACT panels

Replace light fixtures with new LED light fixtures

Add sprinklers / upgrade fire alarm system

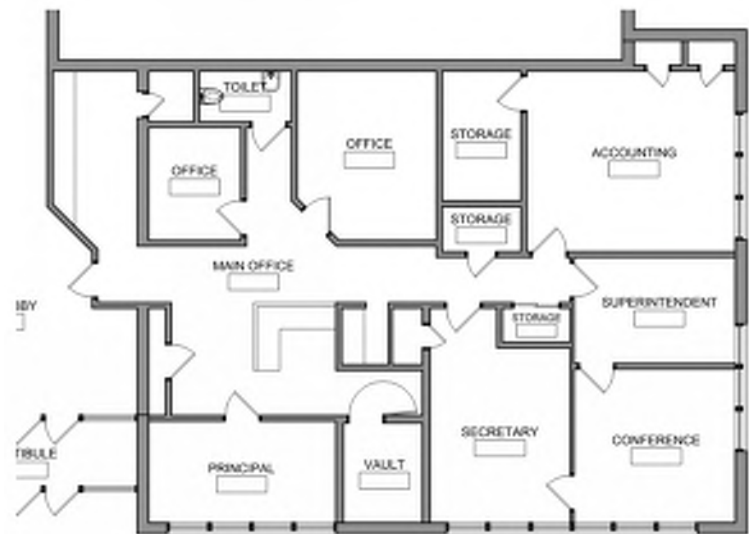
Modify entrance doors to make room accessible





**Administration**

Existing Square Footage	3,520 square feet (includes district offices)
Ideal Square Footage	3,550 square feet
Floor Material	12 x 12 VCT, perimeter offices have carpet
Base Material	Vinyl cove base
Walls	Both GWB and CMU, painted (wood paneling at principals office)
Ceilings	2x4 ACT, fair condition
Windows	Aluminum windows at perimeter offices
Doors	Wood interior doors
Casework	Office partition at main check-in area
Equipment	Copiers, computers
Notes	Contains Avaya phone system and new fire alarm panels (both 2007) (small lunch room with casework and ceramic tile finishes)



Recommendations	Would prefer to be more centrally located
	Install new fire protection system
	Replace existing ceiling with new high NRC 2x2 ACT ceiling
	Install new LED lighting with new lighting controls
	Replace existing carpeting



**Allied Health**

Existing Square Footage	1,565 square feet
Ideal Square Footage	3,000 square feet
Floor Material	VCT
Base Material	Vinyl base
Walls	CMU, painted / Gypsum Wallboard
Ceilings	2x4 ACT
Windows	Aluminum (replaced on 2011) - no overhead door
Doors	Wood, interior / Hollow metal, exterior
Casework	Cabinets, with sink
Equipment	3 bed areas
Notes	Contains office, storage and small related classroom



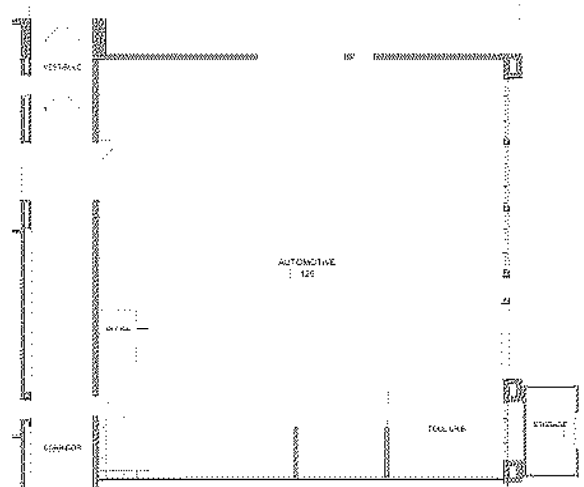
Recommendations

- Install fire protection system
- Replace 2x4 ACT ceiling with new high NRC 2x2 ACT ceiling
- Space is significantly undersized - may need relocation
- Install new LED lighting and new lighting controls



**Automotive**

Existing Square Footage	5,170 square feet
Ideal Square Footage	7,150 square feet
Floor Material	Concrete (sealed / painted)
Base Material	None
Walls	CMU, painted - some glazed CMU
Ceilings	Exposed - structure is painted (some skylights)
Windows	Aluminum (replaced in 2011) - overhead doors (2)
Doors	Wood - interior / Hollow metal - exterior
Casework	Student lockers - raised wood teacher's area
Equipment	Shop equipment
Notes	Tool crib, locker area with sink

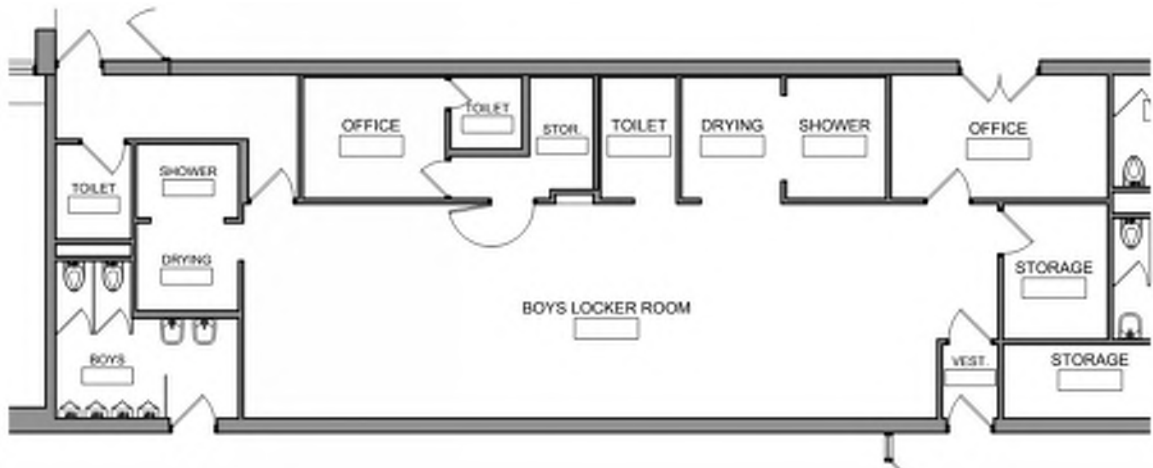


Recommendations	Shop is too small - needs expansion
	Remove raised teacher's station (not accessible)
	Add fire suppression system
	New LED lighting and controls



**Boys Locker Room**

Existing Square Footage	1,600 square feet
Ideal Square Footage	1,750 square feet
Floor Material	Painted concrete (not sealed) - fair to poor condition
Base Material	None - some glazed CMU goes to the floor
Walls	Glazed CMU (low) and CMU painted (high)
Ceilings	Exposed concrete
Windows	None
Doors	Wood doors on the interior - in fair condition
Casework	Wood benches by the lockers
Equipment	Several different sizes of lockers
Notes	Room is somewhat cramped

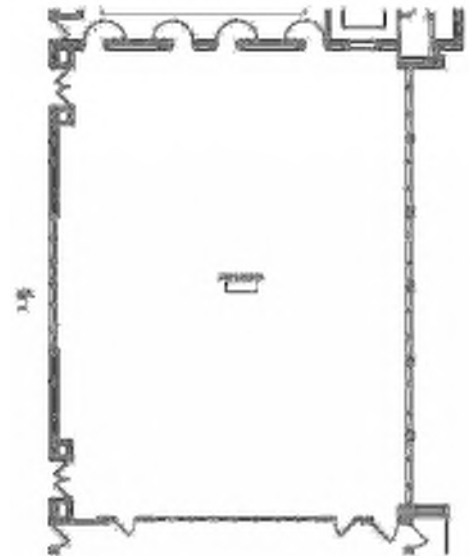


Recommendations	Install fire protection system
	Install epoxy flooring over the existing concrete
	Should find some additional space under renovation project



**Cafeteria**

Existing Square Footage	2,850 square feet (contains some servery space)
Ideal Square Footage	3,100 square feet
Floor Material	12x12 VCT, was replaced with the 1992 addition
Base Material	Vinyl base / glazed CMU
Walls	Brick at entrances, CMU at serving wall, GWB at corridor wall
Ceilings	Plaster ceiling with some 1x1 ACT panel clouds
Windows	Aluminum windows - were replaced in 2007
Doors	Wood doors at entrances (double doors with small leafs)
Casework	Trophy case added at corridor wall
Equipment	Vending machines / servery equipment
Notes	Some circulating fans at the ceiling / UV along window wall



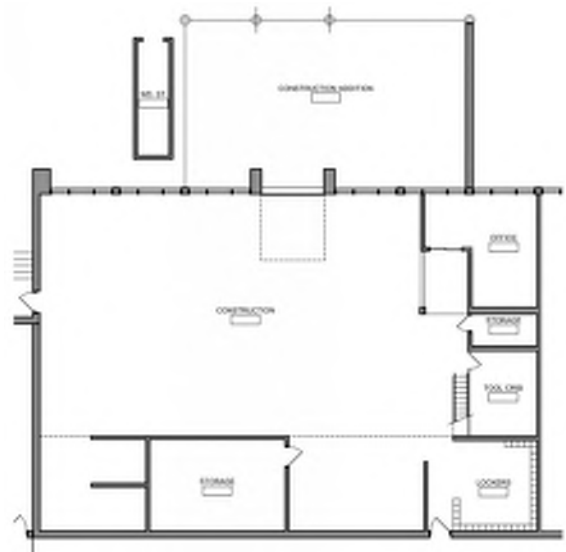
Recommendations	Replace existing plaster ceiling with new high NRC 2x2 ACT ceiling
	Replace entrance doors with a doors at least 3'-0" wide
	Install fire protection system
	Install new LED lighting and new lighting controls





**Construction Shop**

Existing Square Footage	5,090 square feet
Ideal Square Footage	6,750 square feet
Floor Material	Wood floor (fair to poor condition) - epoxy flooring at locker area
Base Material	None
Walls	CMU - both painted and unfinished
Ceilings	Exposed structure
Windows	Aluminum (replaced in 2011) - overhead door (1)
Doors	Wood, interior / Hollow metal, exterior
Casework	Wood storage unit and carrels
Equipment	Shop equipment
Notes	Contains office, tool crib and storage room



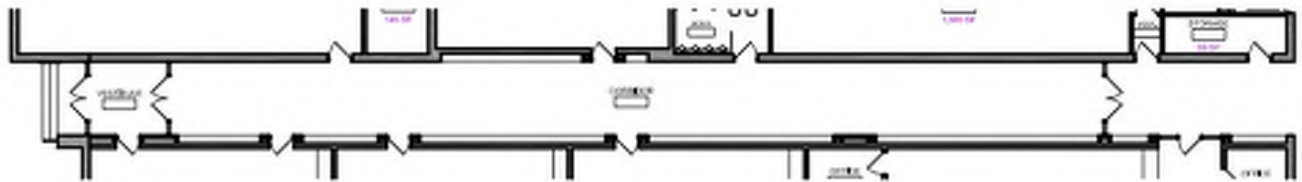
Recommendations

Wood floor should be replaced (will require abatement of mastic)
Install fire protection system
Install new LED lighting and lighting controls



**Corridors**

Existing Square Footage	N/A
Ideal Square Footage	N/A
Floor Material	Terrazzo - wgood condition
Base Material	None
Walls	Glazed CMU blocks - good condition
Ceilings	Plaster with some skylights (some are covered)
Windows	None
Doors	Aluminum storefront doors at egress point - hollow metal at cross corridor
Casework	None
Equipment	New metal lockers (with gypsum wall above)
Notes	Some of the corridors have received new LED lights this year



Recommendations

Replace plaster ceiling with new high NRC ACT panels

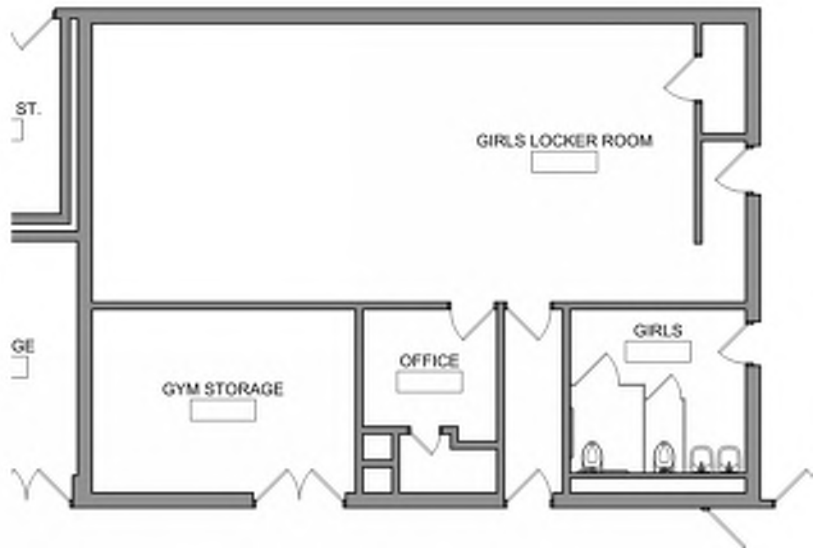
Delete cross corridor doors - patch floor as required

Note: corridor at gym / cafe has similar finishes except some exposed brick walls



**Girls Locker Room**

Existing Square Footage	935 square feet
Ideal Square Footage	1,750 square feet
Floor Material	Thin coat epoxy flooring, poor condition (peeling)
Base Material	Ceramic tile cove base
Walls	CMU, painted
Ceilings	2x4 ACT ceiling (some tiles are sagging)
Windows	None
Doors	Wood doors
Casework	Changing stations (17) and shower stalls (4), good condition
Equipment	Vinyl benches and double-tier metal lockers (total of 35)
Notes	Some rubber mats on the floor

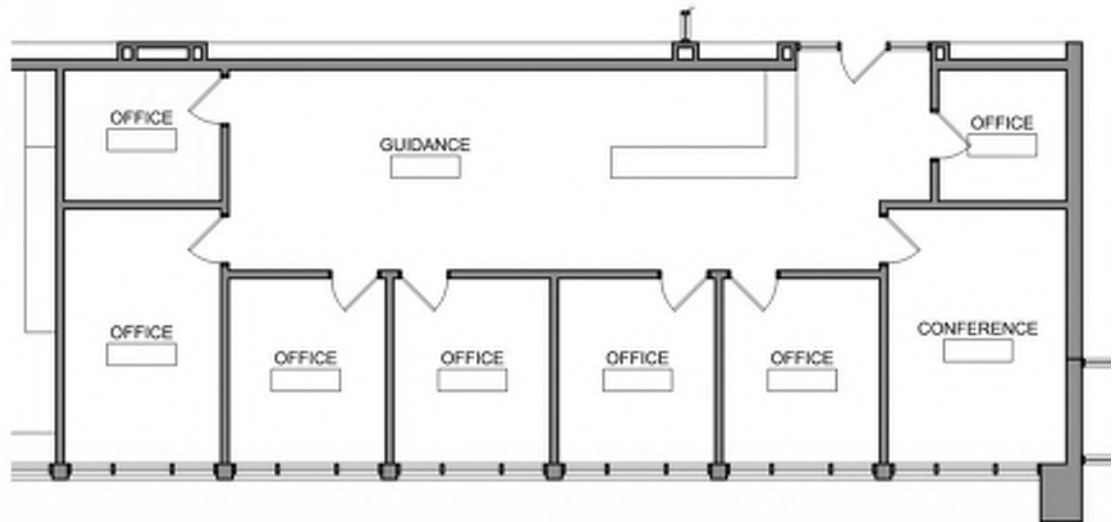


Recommendations	Install thicker coat of epoxy flooring
	Install fire protection system
	Replace 2x4 ACT ceiling with new high NRC 2x2 ACT ceiling



**Guidance**

Existing Square Footage	Included in the administration square footage
Ideal Square Footage	Included in the administration square footage
Floor Material	Carpet, fair condition
Base Material	Vinyl cove base, fair condition
Walls	GWB, painted (good condition)
Ceilings	Mostly plaster, some areas of ACT (fair condition)
Windows	Aluminum frame windows at the perimeter offices
Doors	Wood interior doors
Casework	Office furniture, filing cabinets, storage cabinets
Equipment	Reception desk, clock, small refrigerator
Notes	



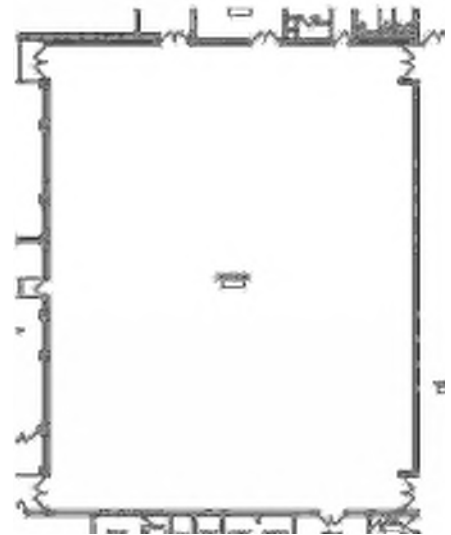
Recommendations

Install new fire protection system
Replace existing ceiling with new high NRC 2x2 ACT ceiling
Install new LED lighting with new lighting controls
Replace existing carpeting and wall base



**Gymnasium**

Existing Square Footage	7,150 square feet
Ideal Square Footage	12,000 square feet
Floor Material	Wood flooring, fair condition (original to building)
Base Material	Vented vinyl base
Walls	CMU / Glazed CMU (wall pads at each end)
Ceilings	Exposed structure
Windows	Kalwall (was replaced in 2011)
Doors	Wood, interior / Hollow metal, exterior
Casework	2 main basketball hoops, 4 side basketball hoops
Equipment	Bleachers on both sides, fairly new (16-18 years old)
Notes	Side folding curtain



Recommendations

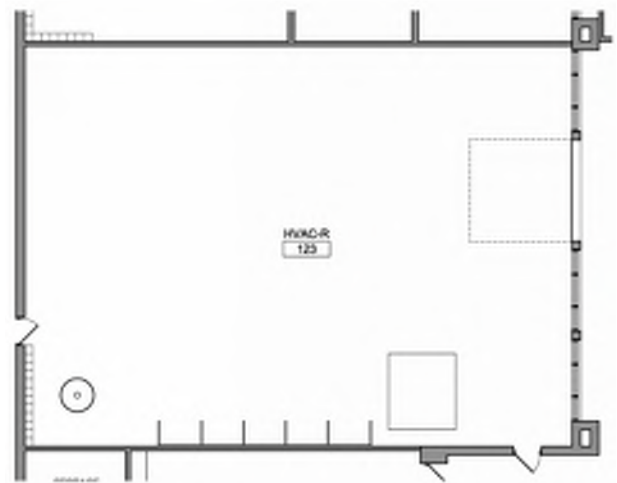
Replace wood flooring with new (includes mastic abatement)
Install fire protection system
Install new LED lighting and new lighting controls





**HVAC-R**

Existing Square Footage	3,090 square feet
Ideal Square Footage	4,800 square feet
Floor Material	Concrete / thin epoxy at entrance area
Base Material	None
Walls	CMU, painted
Ceilings	Exposed - structure is painted (some skylights)
Windows	Aluminum (replaced in 2011) - overhead door (1)
Doors	Wood, interior / Hollow metal, exterior
Casework	Lockers
Equipment	Shop equipment
Notes	Teacher area within shop - no related classroom

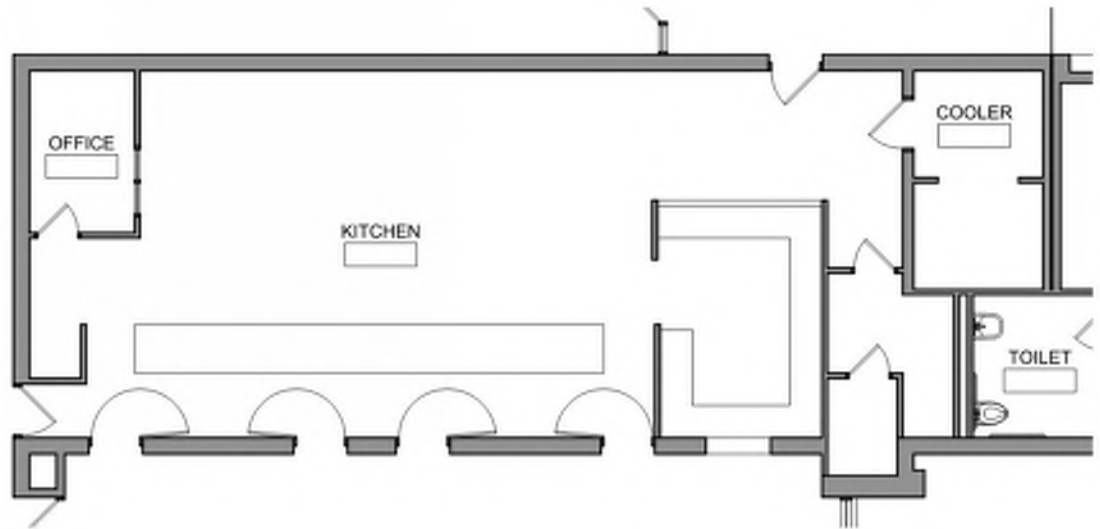


Recommendations	Shop is undersized - need expansion
	Replace bradley type sink with new accessible sink
	New fire suppression system
	New LED lighting with new lighting controls



**Kitchen**

Existing Square Footage	1,440 square feet
Ideal Square Footage	1,920 square feet
Floor Material	Quarry tile
Base Material	None (glazed block)
Walls	Glazed CMU
Ceilings	2x2 washable ACT
Windows	None
Doors	Wood interior doors
Casework	Food service casework
Equipment	Food service equipment
Notes	The freezer is located across the hall in the loading area



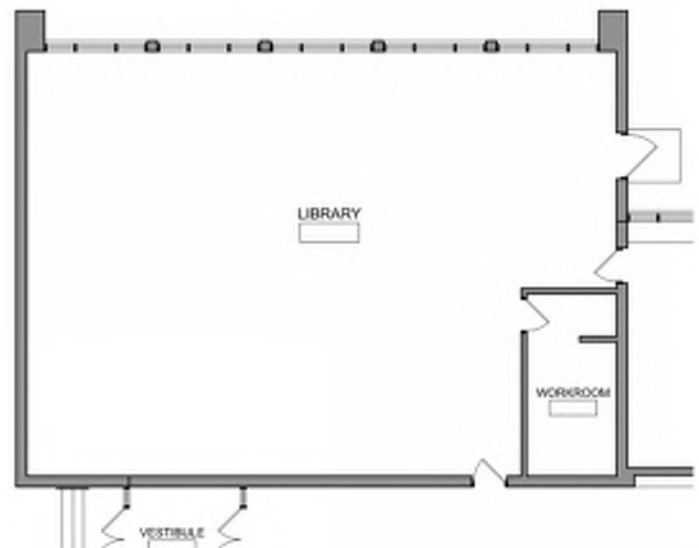
Recommendations

Install new fire protection system - tie into ansul system at hood
Would like additional space as part of a larger renovation project



**Library**

Existing Square Footage	2,210 square feet
Ideal Square Footage	3,775 square feet
Floor Material	Carpet, fair condition
Base Material	Vinyl cove base, fair condition
Walls	GWB, painted, good condition
Ceilings	Sloped plaster ceiling, good condition
Windows	Aluminum (recently replaced) - some casement windows
Doors	Wood doors, interior / Hollow metal, exterior (with half-glass)
Casework	Wood library book shelves, tables and chairs
Equipment	Computer tables, copiers, TV screen
Notes	There is a work room off the library



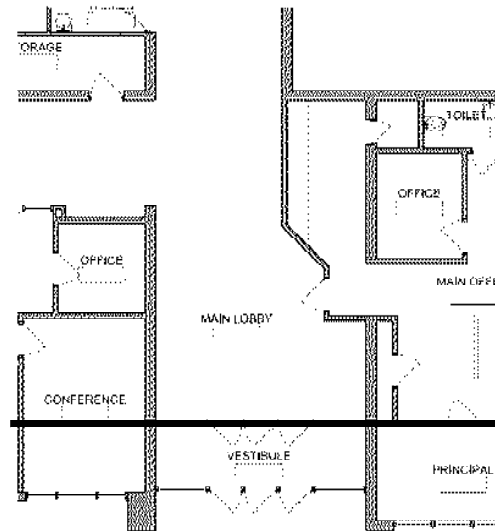
Recommendations

- Install fire protection system
- Install new LED lighting with new lighting controls
- Replace carpet and vinyl base
- Install new high NRC 2x2 ACT ceiling
- Would want to expand as part of a larger renovation project



**Main Lobby**

Existing Square Footage	N/A
Ideal Square Footage	N/A
Floor Material	Terrazzo in good condition (minimal cracks)
Base Material	None
Walls	Exposed brick / glazed CMU block (both in good condition)
Ceilings	Plaster ceiling in good condition - some skylights (some covered)
Windows	Aluminum storefront at main entrance (not original - fair condition)
Doors	See note above
Casework	Wood trophy case - good to fair condition
Equipment	Computer login machine
Notes	Some throw down rugs



Recommendations

- Install recessed entrance floor mats at exterior vestibule
- Replace existing main entrance aluminum storefront system
- Update security at main entrance doors
- Replace plaster ceiling with new high NRC ACT panels



**MET #1**

Existing Square Footage	5,665 square feet (combined with MET #2 and related classroom)
Ideal Square Footage	5,700 square feet
Floor Material	Epoxy flooring (recently installed - excellent condition)
Base Material	Epoxy base
Walls	CMU, painted
Ceilings	Exposed - structure is painted
Windows	Aluminum (replaced in 2011) - overhead door (1)
Doors	Wood, interior / Hollow metal, exterior
Casework	Lockers at entrance - wood counter above lockers
Equipment	Shop equipment
Notes	Has a smartboard / overhead bus duct



Recommendations

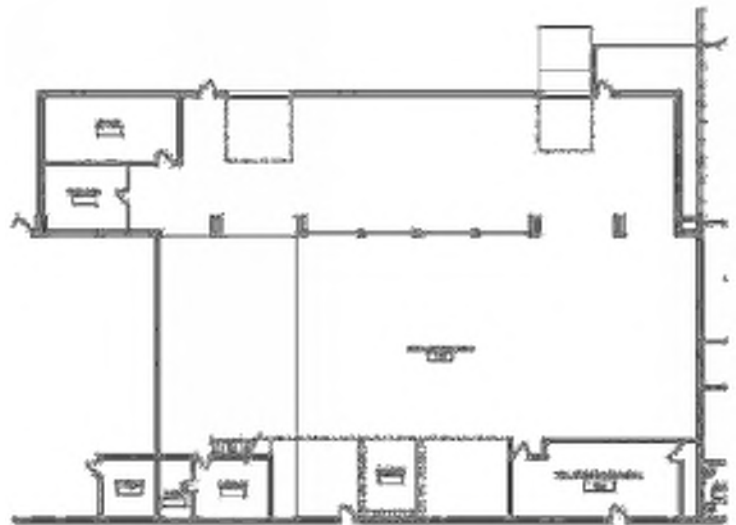
The two (2) shops with related classroom is appropriately sized
Install new fire suppression system
Install new LED lighting with new lighting controls





**Metal Fabrications**

Existing Square Footage	7,975 square feet
Ideal Square Footage	5,200 square feet
Floor Material	Concrete - no sealer
Base Material	None
Walls	CMU, painted
Ceilings	Exposed - structure is painted (some skylights)
Windows	Aluminum (replaced in 2011) - overhead door (1)
Doors	Wood, interior / Hollow metal, exterior
Casework	Lockers
Equipment	Shop equipment
Notes	Upper storage area, small related classroom, storage area



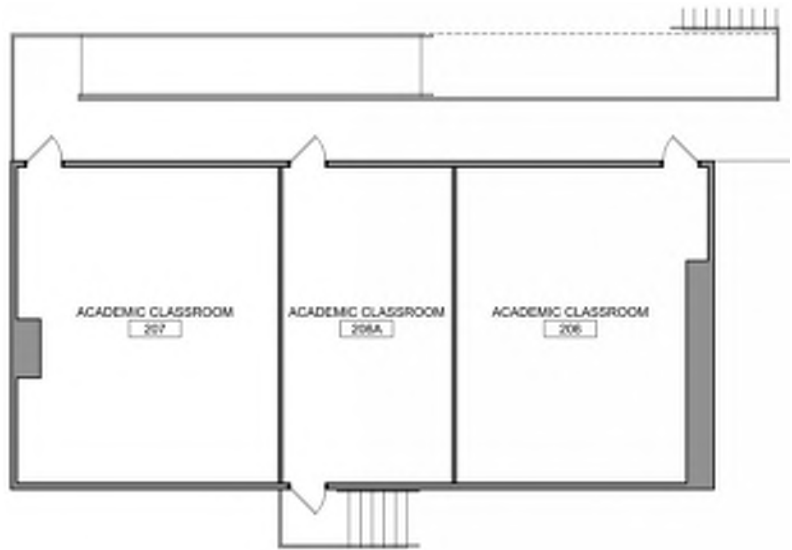
Recommendations	Shop is over-sized - could recommend giving up some space
	Install new fire suppression
	Install new LED lighting with new lighting controls
	Create larger related classroom area



**Modular Classrooms**

Existing Square Footage  
Ideal Square Footage  
Floor Material  
Base Material  
Walls  
Ceilings  
Windows  
Doors  
Casework  
Equipment  
Notes

Two around 550 sf and one at 375 sf  
Typical classroom to be 850 square feet (minimum of 825)  
VCT, fair condition (some cracked tiles)  
Vinyl cove base, good condition  
Modular panels (GWB)  
2x4 ACT  
Aluminum sliding units  
Hollow metal doors (some with half glass)  
Some general storage units  
Marker boards and tack boards  
All classrooms are significantly undersized



Recommendations

Could enclose entrance ramp to make building access more secure  
Wouldn't recommend other upgrades



**Nurse**

Existing Square Footage	405 square feet
Ideal Square Footage	710 square feet
Floor Material	9x9 VAT
Base Material	Vinyl base
Walls	CMU, painted
Ceilings	Plaster ceiling
Windows	Aluminum windows (replaced in 2010)
Doors	Wood interior doors
Casework	Upper and lower cabinets with sink, 3 resting beds with cubicle curtains
Equipment	Lockable medical storage cabinet, small refrigerator
Notes	There is an exam room with similar finishes There is a toilet room with ceramic tile floor and wall wainscot - GWB above



Recommendations

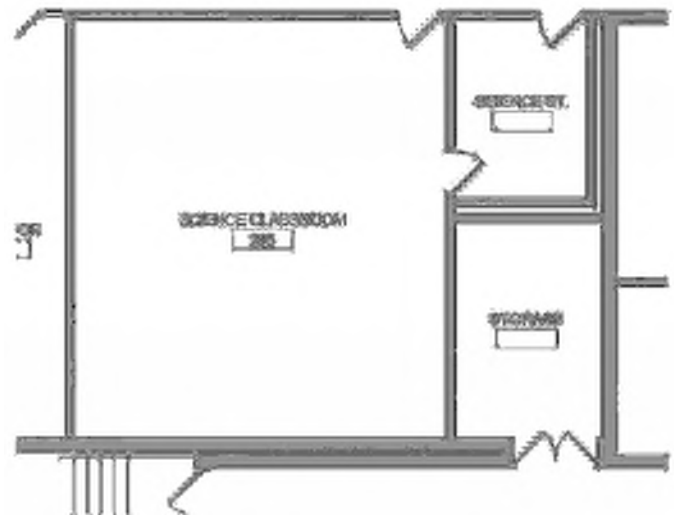
- Would require additional space as part of a larger renovation project
- Replace existing ceiling with new high NRC 2x2 ACT ceiling
- Install new fire protection system
- Install new LED lighting with new lighting controls



**Science Classrooms**

Existing Square Footage  
 Ideal Square Footage  
 Floor Material  
 Base Material  
 Walls  
 Ceilings  
 Windows  
 Doors  
 Casework  
 Equipment  
 Notes

Typically 800 square feet each (total of five classrooms)  
 1,600 square feet with prep room  
 12 x 12 VCT (original) - fair condition  
 Vinyl cove base  
 CMU, painted  
 2x4 ACT ceiling - some stained tiles  
 Aluminum (replaced in 2011), some operable  
 Wood, interior / Hollow metal, exterior  
 Some typical science top cabinets - one lab with sinks  
 Each room has short throw projector and smartboard  
 There is gas in two of the labs (room 201 & 205)



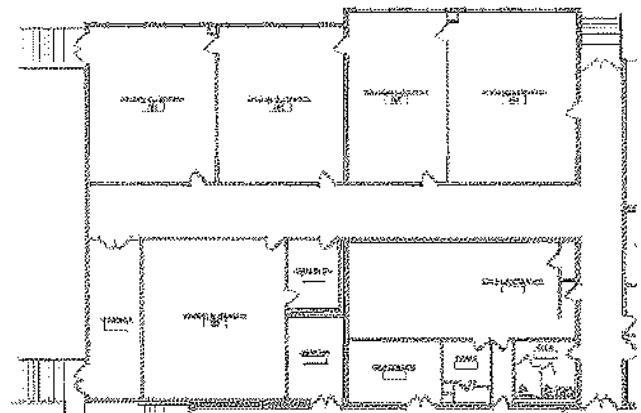
Recommendations

Labs are typically small - should be upgraded under renovation  
 Replace VCT with linoleum  
 Replace 2x4 ACT ceiling with new high NRC 2x2 ACT ceiling  
 Install fire protection system  
 Install new LED lighting with new lighting controls



**Corridors**

Existing Square Footage	N/A
Ideal Square Footage	N/A
Floor Material	VCT - good to fair condition
Base Material	Vinyl cove base
Walls	Painted CMU - some exposed brick
Ceilings	2x4 ACT in fair condition - some sagging tiles
Windows	None
Doors	Hollow metal doors at egress - maybe small (pair of 2'-8"?)
Casework	Small small display cases
Equipment	Cabinet unit heaters
Notes	Some tack boards along corridor walls



Recommendations

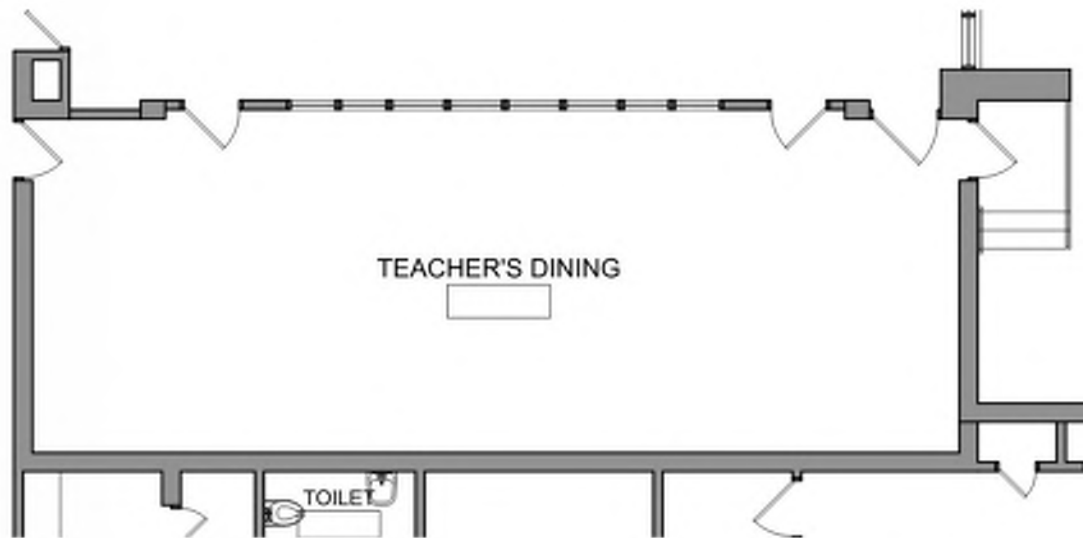
- Replace existing ACT ceiling with new high NRC ACT panels (2x2)
- Replace VCT with linoleum and new wall base
- Replace hollow metal doors at egress with accessible doors
- New LED light fixtures





**Teacher's Dining**

Existing Square Footage	900 square feet
Ideal Square Footage	
Floor Material	12 x 12 VCT - replaced with cafeteria
Base Material	6" vinyl cove base
Walls	GWB and CMU, painted (both in good condition)
Ceilings	2x4 ACT (fairly new)
Windows	Aluminum windows with operable sections (good condition)
Doors	Wood doors at entrance, other doors are hollow metal
Casework	Wood storage cabinets, mailboxes, lecturn, sink
Equipment	Copier, desk with computer
Notes	



Recommendations	Replace VCT with linoleum
	Replace 2x4 ACT with new high NRC 2x2 ACT
	Install new fire protection system
	Install new LED lighting with new lighting controls



**Weight Room**

Existing Square Footage	590 square feet
Ideal Square Footage	3,000 square feet
Floor Material	Rubber tile (athletic type), good to fair condition
Base Material	None - appears to be low concrete foundation wall, painted
Walls	Gypsum wallboard with some brick bump-outs on gym side
Ceilings	Gypsum wallboard
Windows	Aluminum casement windows (high on wall - total of 3)
Doors	Wood, interior / Hollow metal, exterior
Casework	Storage cabinets / carts
Equipment	Weight room equipment
Notes	Contains an accessible ramp to exterior ( to step with no ramp)

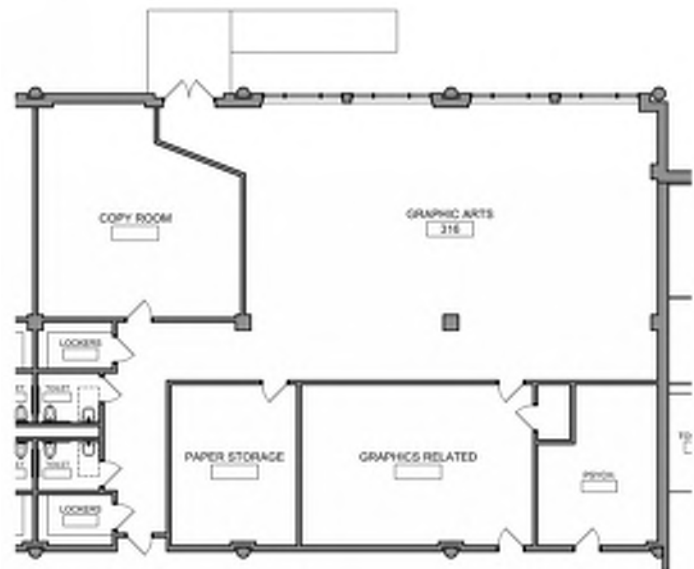


Recommendations	Recommend replacement as part of larger renovation project
	Make exterior step outside accessible



**Graphic Arts**

Existing Square Footage	3,435 Square Feet
Ideal Square Footage	3,600 Square Feet
Floor Material	Concrete (sealed/painted)
Base Material	Vinyl base
Walls	Gypsum wallboard, painted
Ceilings	2x4 ACT (low) / exposed structure (high)
Windows	Aluminum with some operable sections
Doors	Hollow metal, both interior and exterior
Casework	Some wood shelves
Equipment	Shop equipment
Notes	Copy room, related CR, paper room, separate toilets, flammable st.



Recommendations

- Replace existing aluminum windows
- Replace 2x4 ACT ceiling with new 2x2 high NRC ACT ceiling
- Reseal existing concrete floor



**Culinary Kitchen**

Existing Square Footage	4,250 Square Feet (include total culinary Program)
Ideal Square Footage	3,625 Square Feet
Floor Material	Quarry tile (good condition) - VCT and carpet in restaurant
Base Material	Quarry tile base
Walls	Ceramic tile (low) / Gypsum wallboard (high - 4'-0" AFF)
Ceilings	2x4 ACT (fair condition)
Windows	Aluminum with some operable sections
Doors	Hollow metal, both interior and exterior
Casework	Chair and tables in restaurant
Equipment	Shop / kitchen equipment
Notes	Wood paneling vs. ceramic tile for walls at restaurant



Recommendations	Replace existing aluminum windows
	Replace ACT with new high NRC 2x2 ACT in restaurant
	Replace ACT in kitchen



**Corridors - Addition**

Existing Square Footage

-

Ideal Square Footage

-

Floor Material

12x12 VCT (fair condition)

Base Material

Vinyl base

Walls

Typically glazed CMU

Ceilings

Gypsum wallboard

Windows

Aluminum with some operable sections - some HM not curtain wall

Doors

Most are hollow metal

Casework

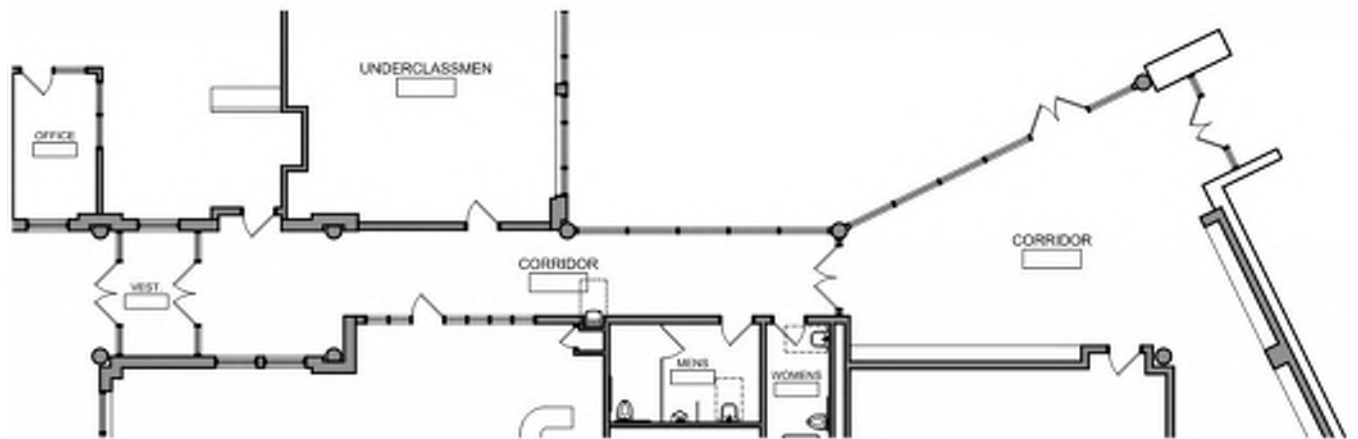
-

Equipment

-

Notes

No terrazzo, wood slat ceiling outside lecture hall



Recommendations

Replace VCT with rubber flooring

Delete gypsum wallboard ceiling - replace with high NRC ACT ceiling





**CR - Addition**

Existing Square Footage

690 Square Feet

Ideal Square Footage

825 Square Feet (minimum - MSBA guideline)

Floor Material

12x12 VCT (fair condition)

Base Material

Vinyl base

Walls

Gypsum wallboard, painted

Ceilings

2x4 ACT (fair condition)

Windows

None

Doors

Hollow metal interior doors

Casework

Wood storage cabinets

Equipment

SB / MB / TB at front of classroom

Notes



Recommendations

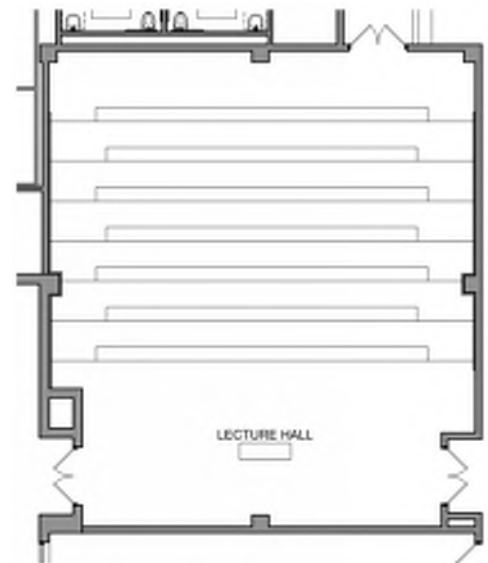
Replace existing ACT with new high NRC 2x2 ACT ceiling

Replace existing VCT with linoleum



**Lecture Hall**

Existing Square Footage	2,285 Square Feet
Ideal Square Footage	4,133 Square Feet
Floor Material	VCT and carpet (VCT under seating)
Base Material	Vinyl base
Walls	Gypsum wallboard, painted
Ceilings	Exposed structure
Windows	None
Doors	Hollow metal, both interior and exterior
Casework	Lectern
Equipment	Ceiling mounted projector (no smart board)
Notes	No access to back of lecture hall (carpet, VCT and seats replace 5 yrs ago)



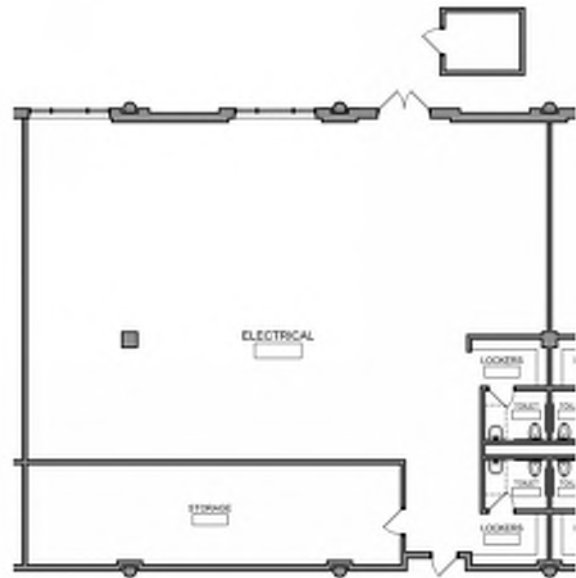
Recommendations

Add additional acoustical measures  
 May need wheelchair at back hall entrance (major renovation project)



**Electrical**

Existing Square Footage	3,885 Square Feet
Ideal Square Footage	7,425 Square Feet
Floor Material	Concrete, painted/sealed
Base Material	Vinyl base
Walls	Gypsum wallboard (? - cover in padding)
Ceilings	Exposed structure
Windows	Aluminum with some operable sections
Doors	Hollow metal, both interior and exterior
Casework	Shop carrels
Equipment	Shop equipment
Notes	Raised teachers station, upper student carrels, lockers and toilets



Recommendations

Replace existing aluminum windows
Remove raised teachers station
Provide minor accessibility modifications at existing toilet rooms
Needs additional shop space``



**Horticulture**

Existing Square Footage	4,320 Square Feet
Ideal Square Footage	4,200 Square Feet
Floor Material	12x12 VCT, crack at column line (fair condition)
Base Material	Vinyl base
Walls	Gypsum wallboard, painted
Ceilings	2x4 ACT - exposed at high section
Windows	Aluminum some some operable sections
Doors	Hollow metal, both interior and exterior
Casework	Some wood storage cabinets
Equipment	Tables, chairs, computers, TV
Notes	Raised teachers station (not accessible)



Recommendations

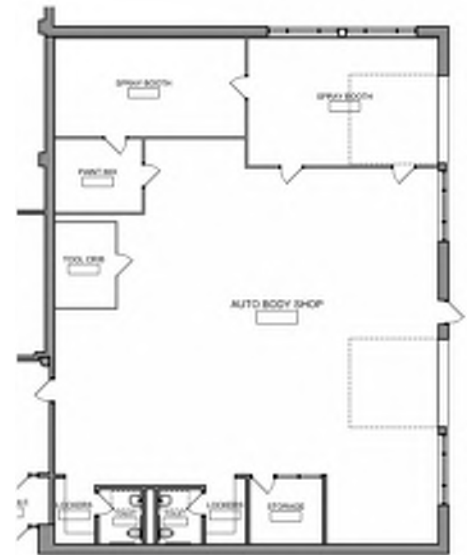
- Replace existing aluminum windows
- Replace 2x4 ACT ceiling with new high NRC 2x2 ACT ceiling
- Replace VCT flooring with linoleum flooring
- Remove raised teacher's station



**Auto Body**

Existing Square Footage  
 Ideal Square Footage  
 Floor Material  
 Base Material  
 Walls  
 Ceilings  
 Windows  
 Doors  
 Casework  
 Equipment  
 Notes

3,845 Square Feet  
 4,675 Square Feet  
 Concrete, sealed  
 Vinyl base  
 CMU, painted  
 Exposed structure  
 Aluminum with some operable sections  
 Hollow metal, both interior and exterior - two (2) overhead doors  
 Some storage cabinets  
 Shop equipment, bradley sink  
 Contains office, tool crib, locker areas, and two toilet rooms



Recommendations

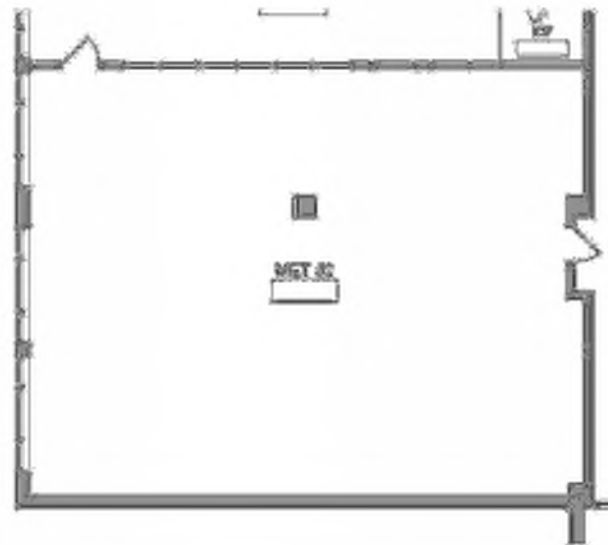
Replace existing aluminum windows  
 Replace bradley type sink with accessible sink  
 Provide minor accessibility modifications at existing toilet rooms





**M.E.T #2**

Existing Square Footage	2,490 Square Feet
Ideal Square Footage	3,300 Square Feet
Floor Material	12x12 VCT (good condition)
Base Material	Vinyl base
Walls	Gypsum wallboard, painted
Ceilings	2x4 ACT (good condition)
Windows	Aluminum with some operable units
Doors	Hollow metal interior doors
Casework	Storage units with a sink
Equipment	Shop equipment, smart board, ceiling mounted projector
Notes	Laid out as a computer lab (engineering)

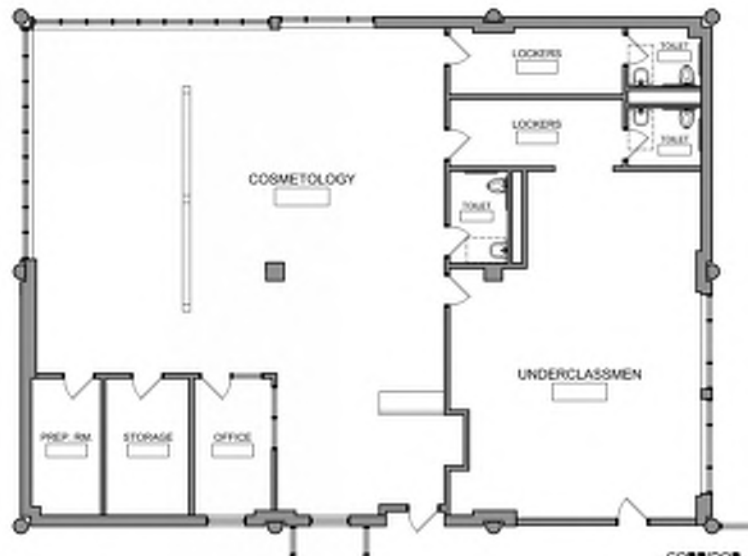


Recommendations	Replace existing aluminum windows
	Replace existing 2x4 ACT ceiling with new high NRC 2x2 ACT ceiling



**Cosmetology**

Existing Square Footage	3,000 Square Feet
Ideal Square Footage	3,125 Square Feet
Floor Material	12x12 VCT (good condition)
Base Material	Vinyl base
Walls	Gypsum wallboard, painted
Ceilings	2x4 ACT, some stains (fair condition)
Windows	Aluminum with some operable units
Doors	Both wood and hollow metal interior doors (no exterior doors)
Casework	Storage cabinets
Equipment	Shop equipment, sinks
Notes	Contains office, storage room and prep room

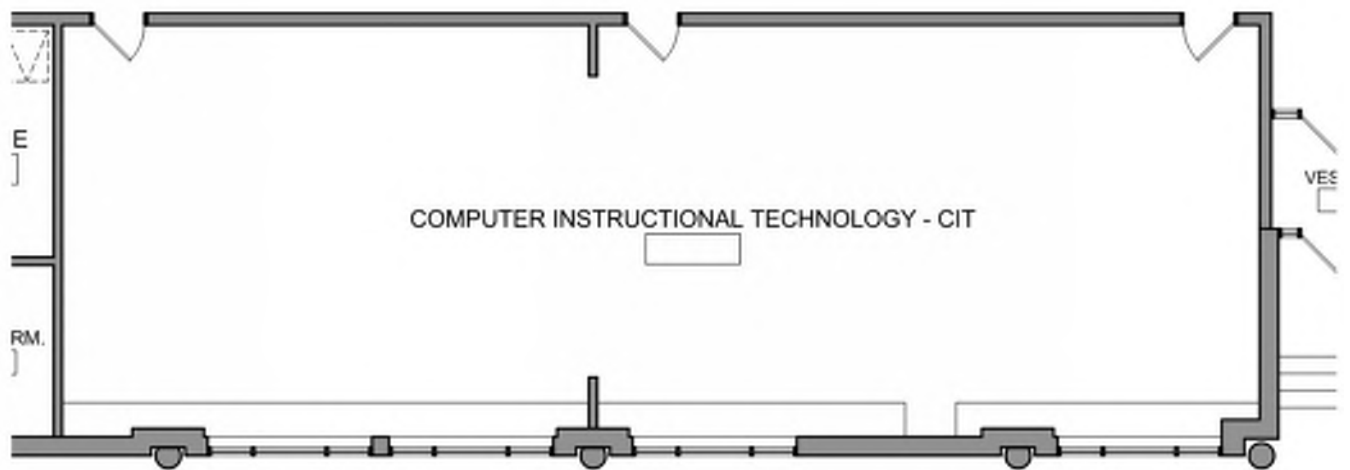


Recommendations	Replace existing aluminum windows
	Replace existing ACT ceiling with new high NRC 2x2 ACT ceiling
	Minor modifications to existing toilets for accessibility



**C.I.T.**

Existing Square Footage	1,695 Square Feet
Ideal Square Footage	3,080 Square Feet
Floor Material	12x12 VCT
Base Material	Vinyl base
Walls	Gypsum Wallboard, painted
Ceilings	2x4 ACT (fair condition)
Windows	Aluminum with some operable section - original to 1992 addition
Doors	Hollow metal, interior
Casework	Wood storage cabinets
Equipment	Shop equipment, computer equipment
Notes	This space was originally two smaller classrooms



Recommendations

- Replace existing aluminum windows
- Replace existing 2x4 ACT ceiling with new high NRC 2x2 ACT ceiling





# EXISTING CONDITIONS ASSESSMENT:

## FFE

### 23 0925 PLS South Shore RVTH Observations

Overall, South Shore RVTH is a well-equipped Technical High School. Through our review of existing conditions and meetings with staff/instructors, we found many programs that have state-of-the-art equipment. The educators and administration at South Shore RVTH have done an excellent job utilizing grant funds to keep programs and equipment up to date and on the cutting edge of industry.

Overall, the only major areas in which we find deficiencies is the current allotted space for each program which includes but is not limited to shop space, storage spaces, related classrooms, and student lockers/storage. With increased space, additional instructional equipment would be needed to service increases in current and future student enrollment.

Our shared goal is to ensure that every student can safely use any piece of equipment. Additional concerns regarding existing/older equipment is not only safety, but the ability to find replacement parts if the equipment needs to be taken offline for repairs.

#### Auto Collision

- New spray/paint/mixing room needed
- Focus on painting/refinishing – no frame straightening needed
- Potential upgrade on tire machines
- Larger Capacity 16k symmetrical lift
- Larger sand blast unit potentially

#### Auto Technology

- Well-equipped and well taken care of shop.
- Add more Lifts – 10k and 16k Symmetrical
- Larger capacity alignment rack to serve more types of vehicles
- Potential upgrade on tire machines

#### Allied Health

- This program has been recently upgraded. The equipment here is state of the art.
- Need more space to accommodate new equipment.
- Sim room would be beneficial
- Dedicated related room outfitted similar to science classroom

#### Engineering – MET

- Well run program with great use of given space
- More shop space will allow for additional EQ items to service more students safely
- Could use for more defined areas for design, prototype, manufacturing
- 'Clean' room would be beneficial for the more delicate equipment items
- Storage is at a premium
- Mills/CNC should double to accommodate current/future enrollment

#### DVC/Graphics -

- Storage is at a premium
- Current equipment is mostly new and in good condition for reuse
- Dedicated computer lab is needed
- Photo/Video studio and darkroom are needed

#### HVAC-R

- Excellent use of current space/Equipment
- Storage is at a premium
- Metalwork EQ is worn – may need replacement
- Heating/Cooling trainers look to be in good condition – but typically need replacement every few years



# EXISTING CONDITIONS ASSESSMENT:

## FFE

- More space and additional EQ recommended for future enrollments

### Metal Fabrication

- New/Larger plasma cutter recommended – constant use
- Accommodate items coming in new framework: Waterjet Cutter, Weld Positioner, Hardness tester/Pendulum
- Workstation Crane system needed – look into relocating existing
- Larger sandblaster recommended
- Larger Shear/Break decent condition – potential new purchases due to safety concerns
- New welding booths may be needed
- Some cutting equipment showing age – potential replacement

### Culinary

- NIC

### Cosmetology

- Separate shampoo area from salon stations
- Larger student lockers needed – enclosed storage for wigs/heads
- Portable dryers recommended for flexibility
- Shop is well taken care of
- Some potential reuse of styling chairs/stools/carts

### CIT

- Current equipment is adequate – will need updating with newer technology
- Storage is at a premium – built in and purchased
- New workstations needed
- Green screen/podcast production studio and server room needed

### Electrical

- Recently purchased trainers are great – could use more of the same and additional for use in related
- Great use of existing space/equipment
- Storage is at a premium
- Most EQ could be reused – more needed to accommodate student population

### Carpentry

- New Workbenches can be reused - more needed to accommodate student population
- Most existing equipment can be reused
- Replace Powermatic Bandsaw
- Add additional Planer and Jointer to keep the workflow moving
- Replace large Delta drill press
- Reuse Cantilever shelving
- Update Dust Collection per

### Horticulture

- \*Did not review EQ in out buildings\*
- Greenhouse with retail connection very important
- Gardening workbenches/accessories needed
- Larger shop area to house landscape equipment – mowers, tractors etc.
- Mower lifts needed for oil changes, blade sharpening
- Indoor climbing tree/structure with ropes recommended
- Screener for compost is a good teaching tool
- Hardscape supplies and irrigation training stations would be needed

## EXISTING CONDITIONS ASSESSMENT:

### FFE

#### General

- Casework: Dated but serviceable. Units with sinks do not appear to be ADA accessible. There are opportunities to add more to accommodate additional storage.
- Furniture: Dated but serviceable. There are many alternate products for outfitting “teaching” spaces and offices that can provide for ergonomic seating and flexible desking.



## EXISTING CONDITIONS: FOOD SERVICE

### EXECUTIVE SUMMARY

South Shore Technical High School food service is a robust program that receives, stores, and produces meals for the high school. The program also includes a culinary arts program which supports the Brass Lantern Restaurant. In general, the finishes and foodservice equipment in the main kitchen appear to be original to the building and visibly dated. Equipment in the culinary lab is in better condition, but requires updates for the main cooking equipment. The main kitchen area is inadequately sized, outdated, and lacks any flexibility to adapt and provide better offerings to the student body.

Improving cooking and serving equipment for the main kitchen will modernize the program and allow it to sufficiently meet the demands of health code regulations as well as improve the appeal of the food offerings. Modernizing workstations, cooking equipment, and finishes will allow kitchen staff to focus on food production and operate more efficiently. Overall, the program is well run and the staff are highly trained and dedicated. However, they lack the full complement of tools needed to truly operate at a higher level of service.

### MAIN KITCHEN AND SERVERY

#### GENERAL OVERVIEW

South Shore Vocational High School food service program currently serves a population of approximately 700 students in grades nine through twelve. The original kitchen is mostly intact with minor modifications and equipment upgrades done throughout the years. Major infrastructure items such as the cooking equipment, exhaust system and serving lines have not been updated in a significant amount of time. For the current school population, the kitchen lacks refrigeration, freezer, and dry storage areas to efficiently store for their production needs. Most kitchen walls are ceramic tile which allows for proper and efficient cleaning. Unfortunately, due to solid tile walls many utilities are surface mounted resulting in exposed utility lines throughout the kitchen that are extremely difficult to clean. Overall, the kitchen staff does an adequate job of maintaining and keeping the kitchen clean. However, due to the date and condition of the equipment and kitchen finishes, it is a challenge to maintain this kitchen properly.

There is a suspended ceiling grid, but the ceiling tiles appear old and original to the building. The ceiling shows significant signs of age and evident water leaks in some areas. Flooring material used in both the kitchen and servery area is a quarry tile. The quarry tile is showing signs that it is near the end of its life expectancy. There is no coved base where the flooring system meets building walls. This is a modern code requirement for proper cleaning. Quarry tile in the dish room has visible efflorescence at the surface. Efflorescence is caused by salts being deposited on the surface as moisture evaporates. This is more common in older floors that do not have a vapor barrier and moisture rises from below. The flooring

system for this entire kitchen should be replaced and brought up to modern health code for proper cleanability and longevity of the kitchen.

Refrigerated and dry storage capacities for the school kitchen are limited. The operations team does not have sufficient space to properly store and hold product at food-safe temperatures. As the student population has grown over the years, it has outgrown the originally designed storage capacities. Dry storage was especially limited and there were storage racks provided in the employee restroom because there's not enough dedicated space in the kitchen. There is only one reach-in refrigerator in the kitchen, which is not enough to support the walk-in cooler in addition to it.

While there are several stainless work tables in the kitchen, there is a limited amount of food preparation areas with sinks to properly separate and wash food products prior to the cooking process. With no dedicated prep sink in the kitchen, it is assumed that staff must use the pot-washing sink for dual functions as their preparation sink. This poses a serious threat of cross-contamination and is not considered best practice. All work tables within the kitchen have stainless steel tops, which is appropriate and acceptable according to modern-day food code standards. However, the legs of these tables are older and composed of galvanized steel. Galvanized steel chips and rusts over time, necessitating unnecessary maintenance such as painting the table legs.

At the cook line, there are exposed utility lines mounted on the surface of the building walls. This situation creates a cleanliness issue. In newer construction, utilities are concealed as much as possible. Additionally, the exhaust hood in the kitchen space is outdated and should be upgraded to incorporate modern-day finishes and technological advancements. The grease filters do not meet current standards and are considerably more challenging to clean than what is already on site.

The fire protection Ansul system consists of iron piping and is extremely difficult to clean. In this environment, materials like stainless steel or chrome would be more suitable for ease of cleaning. Furthermore, there are vents at the front of the exhaust hood for make-up air, but this technology is outdated, and this style of hood is no longer manufactured.

The exhaust hood has also been penetrated for the fire suppression system, which is not acceptable in modern construction. This creates locations for exhaust fumes and grease to leak and not be properly contained. In new construction, utilities and fire suppression systems should neither be mounted on nor penetrate the exhaust hood, as this practice is no longer deemed acceptable.

The serving line in this kitchen is also outdated and could benefit from some equipment updates. While there is hot holding capability, there is no refrigerated holding along the line for cold food offerings to be held at safe and proper temperatures for serving. Additionally, the sneeze guards on these counters are outdated and no longer in compliance with current NSF (National Sanitation Foundation) regulations.

This facility has a conveyor-style dish machine and a three-compartment sink to handle ware washing. However, the dish machine is quite old and requires replacement. Additionally, the exhaust hood in the dish room is not sealed off to the finished ceiling. This presents a cleanliness issue as the angled portions of the hood accumulate dust, debris, and dirt. In new construction, stainless steel enclosure panels are typically used vertically from the top of the hood to the ceiling to prevent the buildup of debris and make it easier to clean.



## CULINARY KITCHEN

### GENERAL OVERVIEW

The finishes provided in the culinary kitchen are newer and in better overall condition. There's a suspended ceiling grid, which is generally in decent condition. The flooring material used in both the kitchen areas is quarry tile, and the tile here is in much better condition than in the main kitchen. There is also cove base present where the flooring system meets the architectural walls. However, it's worth noting that the quarry tile does not have a cove at the refrigerated rooms, both on the interior and exterior, and this condition should be updated to meet modern codes for proper cleanliness.

Refrigerated and dry storage capacities for the culinary kitchen appear to be more adequately sized for the operation. This kitchen has a dedicated dry storage room, unlike the main kitchen, and the walk-in cooler and freezers appear to be sized more appropriately. During discussions with the staff, it was noted that they would like to expand the amount of cooler and freezer storage capacity to be able to stock up more effectively.

In this area, there is also a mix of wood-top and stainless tables, with the majority of table legs and feet being stainless, which is an improvement compared to the main kitchen. It is possible to reuse tables from this area.

The cookline in this kitchen is designed as an island style cookline, but there is no wall or utility wall to conceal the utilities. This configuration creates a challenging cleaning situation, and it's evident that this area is rarely cleaned thoroughly. While some of the cookline equipment has been replaced over the years, there are several items that are outdated and in need of replacement.

Additionally, the exhaust hood in the kitchen space is outdated and should be updated to incorporate modern-day finishes and technological advancements. The grease filters do not meet current standards and are considerably more difficult to clean than what is currently on site. The fire protection Ansul system has a lot of horizontal piping in the hood cavity, making it more difficult to clean. In new construction, Ansul drops are typically limited to vertical drops only, which is neater and easier to clean. Furthermore, there are vents at the front of the exhaust hood for make-up air, but this technology is outdated, and this style of hood is no longer manufactured.

On a positive note, this facility has a new door-type dish machine for mechanical ware washing. The machine is in good condition and could be reused in a future project. However, the surrounding dish tables are a bit older and should be replaced as the legs are starting to rust.

The following specific issues will reference codes and standards. For the purposes of this report when the health code is referenced, we are citing requirements of the Federal Food Code, 2017 addition, published by the FDA as well as the Merged Massachusetts Food Code 2013 addition.

We will also reference the National Sanitation Foundation (NSF). This is an independent governing body that develops standards for foodservice equipment and facility design. All equipment, in commercial kitchens must be built in accordance to NSF standards as a requirement of the food codes.

**Specific Issues**

**Recommendations**

<p>The presence of exposed utilities on the walls and the island-style cookline in the kitchen creates cleanliness challenges. According to the food code, regular cleaning of both the floors and walls is mandatory. (Image 1 &amp; 2)</p>	<p>Enclose utilities and provide a smooth washable surface.</p>
<p>The grease filters in the exhaust hood are considered outdated technology and are not as efficient as modern alternatives. Additionally, they pose a greater challenge when it comes to cleaning. The fire suppression piping within the cavity runs horizontally, leading to excessive grease accumulation. An efficient design restricts fire suppression systems to vertical drops exclusively. In the Ansul system, iron piping was used; nowadays, stainless or chrome piping is preferred for enhanced ease of cleaning.(Image 3)</p>	<p>Replace exhaust hoods and fire suppression systems equipped with the latest in life safety features.</p>
<p>The Exhaust make-up air plenum is front facing. This style of make-up air is outdated technology. The front-facing discharge results in 100% dedicated air into the kitchen space prior to being exhausted. This requires the supply air to be fully conditioned. (Images 4 &amp; 5)</p>	<p>Modern design supply plenums are downward-facing and diffuse 50% of the air into the space, with the remaining 50% being exhausted. This approach significantly reduces the loads and sizing requirements of the rooftop units.</p>
<p>The National Food Code mandates the use of a coved base flooring material at the junction of the floor and the walls of the building and walk-in cooler. This requirement is essential for ensuring proper cleanability as specified in the code. (Images 6 &amp; 7)</p>	<p>Install coved base flooring material to comply with the requirements of the National Food Code.</p>
<p>The ceiling tiles in the main kitchen exhibit substantial wear and tear. It seems that these ceiling tiles are the original ones from the building's construction, and they display discoloration as well as evidence of water leaks. (Image 8)</p>	<p>The entire finished ceiling should be replaced.</p>

Using galvanized legs on work tables is an outdated construction method. Galvanized steel tends to chip and rust over time, demanding regular painting for upkeep. (Image 9)

The stainless steel tables should be replaced with a completely stainless steel construction that conforms to NSF standards.



Image 1



Image 2



Image 3



Image 4



Image 5



Image 6



Image 7



Image 8



Image 9









**RWS**

HVAC

.

Electrical

.

Plumbing

.

Fire Protection

.

Code

# South Shore Vocational Technical School Hanover, Massachusetts

## Existing Building Code Report

**R.W. Sullivan  
Engineering**

The Schrafft Center  
529 Main Street  
Suite 203  
Boston, MA 02129

617.523.8227  
www.rwsullivan.com

**September 22, 2023**

**Reviewed By:** Don E. Contois, P.E.

## Table of Contents

Introduction.....	1
International Existing Building Code.....	1
1. Work Area and Classification of Work: .....	1
2. Occupancy Classification:.....	2
3. Construction Type:.....	2
4. Vertical Openings: .....	2
5. Interior Finishes: .....	3
6. Means of Egress:.....	3
7. Required Fire Protection Systems: .....	3
8. Energy Code Provisions for Existing Buildings.....	5
9. Accessibility for Persons with Disabilities .....	6
APPENDIX: Assessed Value .....	11

**Introduction**

The existing high school building located in Hanover, MA currently contains offices, classrooms, vocational classrooms, gymnasium, and cafeteria. The building includes the original building (1961 w/ 1978 addition) and an addition in 1992. This code summary is based on existing building drawings and information. Following is a list of applicable codes:

Code Type	Applicable Code (Model Code Basis)
<b>Building</b>	780 CMR: Massachusetts State Building Code, 9 <sup>th</sup> Edition (Amended 2015 International Building Code (IBC)) (Amended 2015 International Existing Building Code (IEBC))
<b>Fire Prevention</b>	527 CMR 1: Massachusetts Fire Prevention Regulations (Amended 2021 NFPA 1) M.G.L. Chapter 148 Section 26G – Sprinkler Protection
<b>Accessibility</b>	521 CMR: Massachusetts Architectural Access Board Regulations
<b>Electrical</b>	527 CMR 12: Massachusetts Electrical Code Amended 2023 National Electrical Code)
<b>Elevators</b>	524 CMR: Massachusetts Elevator Code (Amended 2013 ASME A17.1)
<b>Mechanical</b>	2015 International Mechanical Code (IMC)
<b>Plumbing</b>	248 CMR: Massachusetts Plumbing Code
<b>Energy Conservation</b>	225 CMR: Massachusetts Stretch Energy Code (Amended 2021 International Energy Conservation Code (IECC))

A. Massachusetts is in the process of adopting the 10<sup>th</sup> Edition of the building code, which will be based on the 2021 I-Codes. The effective date is expected to be in the 1<sup>st</sup> half of 2024.

**International Existing Building Code**

The 2015 International Existing Building Code with Massachusetts amendments allows for 3 separate compliance methods, the Prescriptive Method (in general, altered areas must comply with the code for new construction), Work Area Method (level of compliance is based on the classification of work), and Performance Compliance Method (numerical method that allows tradeoffs for deficiencies). This report is based on the Work Area Method.

**1. Work Area and Classification of Work:**

The assumed work includes interior renovations that would be classified as a Level 3 alteration. This level includes the reconfiguration of spaces, the addition or elimination of doors and windows, the reconfiguration of spaces, the addition or elimination of doors and windows, the reconfiguration or extension of systems, and/or the installation of additional equipment in more than 50% of the aggregate area of the building. The work must comply with IEBC Chapters 7, 8, and 9 (IEBC 901.2). If the future work includes an addition, the project would also be subject to IEBC Chapter 11.

## 2. Occupancy Classification:

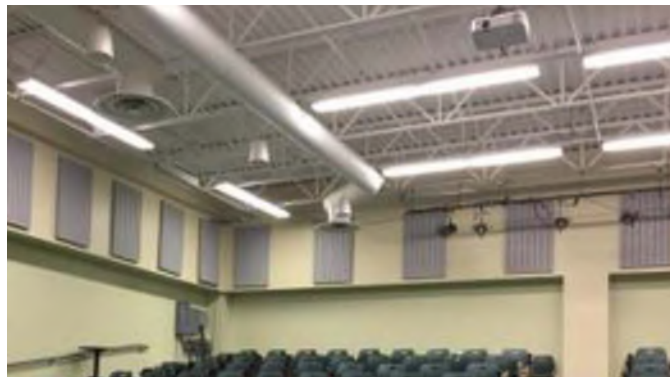
Non-Separated Mixed Uses:

- B (Offices)
- E (Educational)

As permitted by 780 CMR 303.1.3, the accessory assembly spaces such as the cafeteria, auditorium, and gymnasium have been considered to be part of the Use Group E occupancy based on our assumption that the spaces are typically used for school events only.

## 3. Construction Type:

It is our understanding that the majority of the existing building includes a mix of concrete and unprotected steel. Based on the unprotected steel within the building, the existing construction type is Type IIB construction. If the building does not undergo an addition, any new construction will need to maintain this construction type (noncombustible).



**Existing Unprotected Steel Framing**

If the building undergoes an addition, the existing building and addition must comply with height and area limitations. Based on the size of the existing building, any addition must be separated by a firewall unless the structure of the existing building and addition are protected to meet a 2 hour fire resistance rating (Type IB construction).

## 4. Vertical Openings:

All existing vertical openings in the work area connecting two or more floors must be enclosed with 1 hour rated construction and approved opening protectives unless the openings meet one of the exceptions in IEBC 803.2.1. New vertical openings are required to comply with 780 CMR 712 & 713.

*The building is a single story structure and does not contain any vertical openings.*

**5. Interior Finishes:**

The existing interior finish of walls and ceilings in the work area and in all exits and corridors serving the work area must comply with the code requirements for new construction (IEBC 803.4 and 903.3). All newly installed wall and ceiling finishes, and interior trim materials must also comply with 780 CMR Table 803.11 (IEBC 702.1, 702.2, 702.3). The requirements are summarized in the following table:

Interior Finish (780 CMR Table 803.11 & Section 804.4.2)

Use Group:	B/ E	
	w/o sprinkler protection	w/ sprinkler protection
Exit Enclosures	Class A	Class B
Exit Access Corridors	Class B	Class C
Rooms & Enclosed Spaces	Class C	Class C
Floor Finish (in corridors)	Traditional Resilient or Class II Carpeting	Traditional Resilient or Carpeting DOC FF-1 "pill test"

*The building generally consists of painted CMU or gypsum board walls that comply with the above interior finish requirements. The floors have traditional resilient finishes that comply with the requirements.*

**6. Means of Egress:**

The means of egress including the number of exits and egress capacity must be sufficient for the number of occupants on all floors (780 CMR 102.6.4).

*Based on the numerous amount of exterior doors, the building is compliant with these egress requirements. A detailed egress analysis can be conducted once the renovation plans are developed.*

In addition, illuminated exit signs and means-of-egress lighting must be provided in accordance with the code for new construction (780 CMR 102.6.4). All means of egress lighting and exit signs must be provided with an emergency power supply to assure continued illumination for not less than 1.5 hours in case of primary power loss (780 CMR 1008.1 1008.3.4 & 1013.1).

*The building is provided with emergency lighting connected to the generators and illuminated exit signs with integral batteries. These systems should be tested to ensure they are fully functional and provide adequate coverage. The systems must be updated as needed to accommodate any future renovations.*

**7. Required Fire Protection Systems:**

The following fire protection systems must be provided or maintained / updated to accommodate any renovations:



- Automatic sprinkler system (IEBC 804.2.2 & MGL c. 148 s. 26G) – *The building only has partial sprinkler protection in the 1992 portion of the building. Sprinkler protection would be required throughout the building.*
- Fire alarm notification and detection system with emergency voice/alarm communication (IEBC 904.2 & 780 CMR 903.4.2) – *The existing zoned fire alarm system does not have a voice alarm. The system will need to be upgraded to accommodate any new floor layouts and address areas lacking coverage. If a new system is provided, it must have voice alarm capabilities.*
- Fire extinguishers (527 CMR 1 Section 13.6 & 780 CMR 906.1) – *Additional fire extinguishers will likely be required such that they are located throughout the building so that the maximum travel distance to an extinguisher is less than 75 feet.*

#### M.G.L. Chapter 148 Section 26G

Since the building is over 7,500 gross square feet in area, it is subject to the requirements of M.G.L. Chapter 148 Section 26G. These amendments require the entire building to be provided with sprinkler protection if the renovations are considered “major”.

Renovations are considered major depending on the type of work and the scope / cost of work. The following are general guidelines established by the board to be used to determine if the scope or the cost of the planned alterations are major:

1. Major alterations are reasonably considered major in scope when such work over a 5 year period affects **33% or more of the total gross square footage of the building** (measured from the outside walls, regardless of firewalls).
2. Major alterations are reasonably considered major in scope or expenditure, when the total cost of the work over a 5 year period, excluding costs relating to sprinkler installation, is equal to or greater than **33% of the assessed value of the building**, as of the date of permit application.

Major alterations would include work such as the demolition or reconstruction of existing ceilings, sub flooring, walls, stairways, doors, or the removal or relocation of a significant portion of the building’s HVAC, plumbing, or electrical systems. Cosmetic work such as painting or installing / replacing carpeting would be considered minor and would not trigger compliance with this law.

Also, if the scope includes an addition, the addition and the existing building must be provided with an automatic sprinkler system throughout.

Since these are just general guidelines and not specific thresholds, it is up to the head of the fire department to determine if the renovation work triggers compliance with M.G.L. Chapter 148 Section 26G.

## 8. Energy Code Provisions for Existing Buildings

The building is subject to the prescriptive requirements of the 2021 International Energy Conservation Code (IECC) with Massachusetts Stretch Energy Code Amendments (225 CMR 23.00). Level 2 Alterations to existing buildings are permitted without requiring the entire building to comply with the energy requirements of the International Energy Conservation Code (IECC C503.1). The alterations (new elements) shall conform to the energy requirements of the IECC as they relate to new construction while allowing unaltered portions to remain (225 CMR 23.00 Sections C401.2.1 Exc., and C503.1).

### CHAPTER 5 [CE] EXISTING BUILDINGS

**C501.2** *Delete the exception*

**C502.1** *Revise Section C502.1 as follows:*

*Add the following first sentence "Additions to an existing building where the addition is up to 100% of the size of the existing building and less than 20,000-sf shall comply with Sections C401.3, C402 through C406, and Section C408. Additions which exceed either of these limits shall comply with the applicable pathway for new construction in C401.2."*

**C502.2** *Revise Section C502.2 as follows:*

*Remove both exceptions*

**C503.1** *Revise Section C503.1 as follows:*

*Replace "the requirements of Section C503" with "the requirements of Sections C503, C402, C403, C404, and C405"*

*Replace Exception 3 with "Where the component performance alternative in Section 402.1.5 is used to comply with this section, the proposed UA shall not be greater than 110 percent of the target UA."*

For example, the new and altered building elements as part of the project must comply with the following:

- Altered building envelope elements must comply with the following (IECC C503.1 & Table C402.1.4). Note that MA amends the IECC to eliminate the R-value table.

Climate Zone	5 All Other
<b>Roof</b>	
Insulation entirely above roof deck	U-0.032
Metal buildings	U-0.035
Attic and Other	U-0.021
<b>Walls, above grade</b>	
Mass	U-0.090
Metal building	U-0.050
Metal framed	U-0.055
Wood framed	U-0.051

<b>Floors</b>	
Mass	U-0.057
Joist/framing	U-0.033
<b>Opaque doors</b>	
Non-swinging door	U-0.31
Swinging door	U-0.37

- New windows must have U-value of U-0.30 for fixed or C-0.32 for operable per the amendment to IECC Table C402.4 contained in 225 CMR 23.00:

*C402.4 Modify Vertical fenestration U-factors in TABLE C402.4 as follows:*

**CLIMATE ZONE 5 AND MARINE 4  
Vertical fenestration U-factor**

Fixed fenestration	0.30
Operable fenestration	0.32

TABLE C402.4  
BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS

CLIMATE ZONE	0 AND 1	2	3	4 EXCEPT MARINE	5 AND MARINE 4	6	7	8								
Vertical fenestration																
U-factor																
Fixed fenestration	0.50	0.45	0.42	0.36	0.36	0.34	0.29	0.26								
Operable fenestration	0.62	0.60	0.54	0.45	0.45	0.42	0.36	0.32								
Entrance doors	0.83	0.77	0.68	0.63	0.63	0.63	0.63	0.63								
SHGC																
	Fixed	Operable	Fixed	Operable	Fixed	Operable	Fixed	Operable	Fixed	Operable	Fixed	Operable	Fixed	Operable	Fixed	Operable
PF < 0.2	0.23	0.21	0.25	0.23	0.25	0.23	0.36	0.33	0.38	0.33	0.38	0.34	0.40	0.36	0.40	0.36
0.2 ≤ PF < 0.5	0.28	0.25	0.30	0.28	0.30	0.28	0.43	0.40	0.46	0.40	0.46	0.41	0.48	0.43	0.48	0.43
PF ≥ 0.5	0.37	0.34	0.40	0.37	0.40	0.37	0.58	0.53	0.61	0.53	0.61	0.54	0.64	0.58	0.64	0.58
Skylights																
U-factor	0.70	0.65	0.55	0.50	0.50	0.50	0.50	0.44	0.41							
SHGC	0.30	0.30	0.30	0.40	0.40	0.40	0.40	NR	NR							

NR = No Requirement, PF = Projection Factor.

## 9. Accessibility for Persons with Disabilities

### Massachusetts Architectural Access Board Regulations

Alterations to the building must comply with the requirements of the Massachusetts Architectural Access Board Regulations (521 CMR). For existing building alterations the requirements of 521 CMR are based on the cost of the proposed work:

- A. If the cost of the proposed work is **less than \$100,000**, only the new work must comply.

- B. If the cost of the proposed work is **greater than \$100,000** then all new work must comply and the existing building must include an accessible public entrance, toilet room, telephone and drinking fountain (if public phones and drinking fountains are provided) (521 CMR Section 3.3.1(b)). Exempt work when calculating the cost of work includes roof repair or replacement, window repair or replacement, and repointing and masonry repair work unless the exempt work exceeds \$500,000.
- C. If the cost of the proposed work is **greater than 30% of the full and fair cash value** of the existing building, the entire building is required to comply with 521 CMR (521 CMR Section 3.3.2). There is no exempt work, i.e. the entire project costs apply to determining the 30% criteria.

The cost of all work performed on a building in any 36 month period must be added together in determining the applicability of 521 CMR (521 CMR Section 3.5). The full and fair cash value of the existing building is determined by using the 100% equalized assessed value of the building on record with the city assessor's office. The equalized assessed value of the building is \$26,933,814 (\$26,125,800 @ 97%). Therefore, full compliance with 521 CMR would be required if the total cost of all projects in a 3 year period exceeds \$8,080,144.

If the renovation cost more than \$8,080,144, all portions of the building open to the general public (students, visitors, etc) must be upgraded to comply in full with the current requirements of 521 CMR. Any employee-only areas such as staff lounges, staff bathrooms, and staff work areas are not required to comply with 521 CMR, as long as student and public access is not permitted. Since the building is generally not provided with accessible features, the following upgrades will be required to meet full compliance with the provisions of 521 CMR (see detailed accessibility portion of the study for more information):

- All public entrances must be accessible (521 CMR 25.1).

Many exterior doors, such as the main student entrance by the student parking lot, are not accessible due to stairs.



Student Entrance

- Ramps shall comply with 521 CMR 24.00.
- All public and common use areas must be accessible and provided with an accessible route thereto (521 CMR Section 12.2.2 and 20.1).

The weight room, for example, is not provided with an interior accessible route due to stairs.

- Accessible toilet rooms must be provided where toilet rooms are provided to the public (521 CMR 30.1).

Toilet rooms throughout the building are generally not accessible. The toilet rooms in the original building have been modified but would require more significant upgrades. The toilet rooms in the 1992 portion of the building are closer to being compliant but have dimensional issues that must be addressed.

- Stairs shall comply with 521 CMR 27.00.

Many of the stairs are not compliant. In general stairs have one or more of the following issues (521 CMR 27.3, 27.4.4, 27.4.5, 27.4.3, 27.4.1, and 27.4.8):

1. Abrupt nosings
2. Noncircular handrails
3. Handrails do not extend properly at the top or bottom of the stairs



4. Handrails are missing on one or both sides of the stairs.
5. Are not continuous on the inside due to post.



Exterior Stair w/ Noncompliant Handrails

- Doors shall comply with 521 CMR 26.00.

Some of the doors within the building have doorknobs, which require the twisting of the wrist (521 CMR 26.11.1). Also, many of the classroom doors in the original building do not meet the door maneuvering clearance due to the alcoves being deeper than 6" (521 CMR 26.6.2, 26.6.3, and 26.6.4). There are also double exterior doors that are too narrow such that a leaf does not provide the required 32" of clear width.



Narrow Exterior Doors

- Where tables, sinks, study carrels, computer workstations or fixed seating is provided at least 5% with a minimum of one of each item must be accessible (521 CMR Section 12.2.2).
- Drinking fountains shall comply with 521 CMR 36.00.

The drinking fountain are generally newer and compliant.

- Signage must comply with 521 CMR 41.00 and include Braille and raised characters.

### **Americans with Disabilities Act Guidelines**

The ADA Guidelines are not enforced by the Commonwealth of Massachusetts, they can only be enforced through a civil lawsuit or complaint filed with the U.S. Department of Justice. Compliance with the ADA Guidelines is triggered by renovations to the existing building. All renovations to the building must be made to ensure that, to the maximum extent feasible, the altered portions of the facility are readily accessible to and usable by individuals with disabilities (28 CFR Part 35 Section 35.151(b)). Alterations made to provide an accessible path of travel to altered areas and accessible facilities (i.e. provide accessible toilet facilities) are not required if the cost exceeds 20% of the total cost of the alteration (28 CFR Part 35 Section 35.151(b)(4)). However, if the cost to meet these accessibility requirements does exceed 20%, alterations are still required to the maximum extent that the area can be made accessible without exceeding the 20% criteria (28 CFR Part 35 Section 35.151(b)(iii)). The ADA also contains less stringent dimensional requirements for some building elements in an existing building where it is infeasible to meet the requirements for new construction.

**APPENDIX: Assessed Value**

# 476 WEBSTER ST

**Location** 476 WEBSTER ST

**Mblu** 10 / 19 / /

**Acct#** 9030

**Owner** SOUTH SHORE REGIONAL SCHOOL

**Assessment** \$30,431,800

**Appraisal** \$30,431,800

**PID** 3244

**Building Count** 1

## Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2023	\$26,125,800	\$4,306,000	\$30,431,800

Assessment			
Valuation Year	Improvements	Land	Total
2023	\$26,125,800	\$4,306,000	\$30,431,800

## Owner of Record

**Owner** SOUTH SHORE REGIONAL SCHOOL  
**Co-Owner** TOWN HALL  
**Address** 550 HANOVER STREET  
HANOVER, MA 02339

**Sale Price** \$0  
**Certificate**  
**Book & Page** 2833/0005  
**Sale Date** 02/14/1961

## Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
SOUTH SHORE REGIONAL SCHOOL	\$0		2833/0005	02/14/1961

## Building Information

### Building 1 : Section 1

**Year Built:** 1962  
**Living Area:** 141,514  
**Replacement Cost:** \$45,983,962  
**Building Percent Good:** 56  
**Replacement Cost Less Depreciation:** \$25,751,000

**Building Attributes**

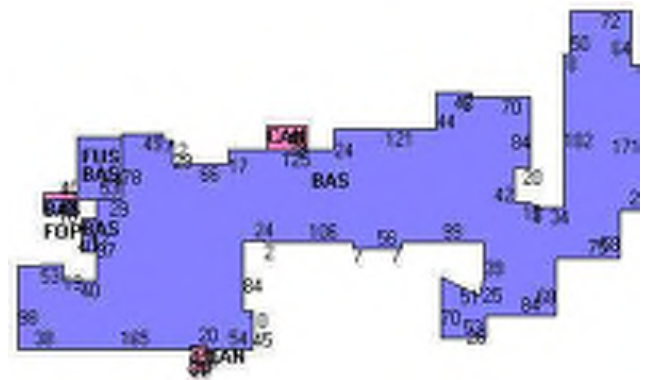
Field	Description
Style:	Schools-Public
Model	Comm/Ind
Grade	Good
Stories:	1
Occupancy	1.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Rolled Compos
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	ceramic tile
Interior Floor 2	Carpet
Heating Fuel	Gas
Heating Type	Hot Water
AC Type	Central
Struct Class	
Bldg Use	COUNTY IMPROVED
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	9031
Heat/AC	HEAT/AC SPLIT
Frame Type	STEEL
Baths/Plumbing	ABOVE AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	ABOVE AVERAGE
Wall Height	12.00
% Comn Wall	0.00

### Building Photo



(<https://images.vgsi.com/photos/HanoverMAPhotos/default.jpg>)

### Building Layout



([https://images.vgsi.com/photos/HanoverMAPhotos/Sketches/3244\\_4232..](https://images.vgsi.com/photos/HanoverMAPhotos/Sketches/3244_4232..))

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	137,592	137,592
FUS	Upper Story, Finished	3,922	3,922
CAN	Canopy	2,001	0
FOP	Porch, Open, Finished	320	0
WDK	Deck, Wood	45	0
		143,880	141,514

### Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
CLR1	COOLER	112.00 S.F.	\$2,200	1
CLR1	COOLER	112.00 S.F.	\$2,200	1
DUW2	WIDE BAY	11.00 UNITS	\$61,600	1



SPR2	WET/CONCEALED	15000.00 S.F.	\$10,900	1
------	---------------	---------------	----------	---

**Land**

**Land Use**

**Use Code** 992I  
**Description** COUNTY IMPROVED  
**Zone** R  
**Neighborhood** 20  
**Alt Land Appr** No  
**Category**

**Land Line Valuation**

**Size (Acres)** 46.6  
**Frontage** 0  
**Depth** 0  
**Assessed Value** \$4,306,000  
**Appraised Value** \$4,306,000

**Outbuildings**

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FGR1	GARAGE-AVE			1860.00 S.F.	\$18,400	1
SHD1	SHED FRAME			663.00 S.F.	\$4,200	1
PAV1	PAVING-ASPHALT			40000.00 S.F.	\$26,000	1
BRN1	BARN - 1 STORY			3040.00 S.F.	\$66,200	1
BRN5	2 STORY			221.00 S.F.	\$6,800	1
GRN2	COMM GLASS			1800.00 S.F.	\$72,000	1
SHD1	SHED FRAME			96.00 S.F.	\$1,300	1
SHD1	SHED FRAME			128.00 S.F.	\$1,800	1
SHD1	SHED FRAME			120.00 S.F.	\$1,700	1
SHD1	SHED FRAME			128.00 S.F.	\$1,800	1
SHD1	SHED FRAME			128.00 S.F.	\$1,800	1
WDK1	WOOD DECK			20.00 S.F.	\$300	1
PAT1	PATIO-AVG			128.00 S.F.	\$600	1
PAT1	PATIO-AVG			192.00 S.F.	\$1,000	1
PAT1	PATIO-AVG			520.00 S.F.	\$2,600	1
PAT1	PATIO-AVG			91.00 S.F.	\$500	1
PAT2	PATIO-GOOD			352.00 S.F.	\$3,500	1
PMP6	ELECTRONIC			2.00 UNITS	\$10,000	1
SHD2	W/LIGHTS ETC			663.00 S.F.	\$10,600	1
SHD2	W/LIGHTS ETC			204.00 S.F.	\$3,300	1
WDK1	WOOD DECK			221.00 S.F.	\$3,300	1
CNP1	CANOPY AVG			84.00 S.F.	\$2,100	1
CNP1	CANOPY AVG			66.00 S.F.	\$1,700	1
CNP1	CANOPY AVG			315.00 S.F.	\$7,900	1
PAT1	PATIO-AVG			900.00 S.F.	\$4,500	1
CAB2	W/PLUMBING			270.00 S.F.	\$10,800	1
SGN3	W/INT LIGHTS			30.00 S.F.	\$2,400	1

SGN2	DOUBLE SIDED			30.00 S.F.	\$1,200	1
LT4	W/FOUR LIGHTS			8.00 UNITS	\$16,800	1
LT5	MERC VAP/FLU			11.00 UNITS	\$12,100	1
MSC3	BLEACHERS			680.00 UNIT	\$700	1

**Valuation History**

<b>Appraisal</b>			
<b>Valuation Year</b>	<b>Improvements</b>	<b>Land</b>	<b>Total</b>
2023	\$26,125,800	\$4,306,000	\$30,431,800
2023	\$26,125,800	\$4,306,000	\$30,431,800
2022	\$20,858,400	\$3,751,400	\$24,609,800

<b>Assessment</b>			
<b>Valuation Year</b>	<b>Improvements</b>	<b>Land</b>	<b>Total</b>
2023	\$26,125,800	\$4,306,000	\$30,431,800
2023	\$26,125,800	\$4,306,000	\$30,431,800
2022	\$20,858,400	\$3,751,400	\$24,609,800

(c) 2023 Vision Government Solutions, Inc. All rights reserved.



September 26, 2023

To: R. Judd Christopher, DRA  
From: Nina Schatz  
CC: Josh Safdie, Aida Villoria

## Re: South Shore Vocational Technical High School – Accessibility Audit



**ARCHITECTURE  
+ ACCESSIBILITY**  
ONE BRIDGE ST  
NEWTON MA  
02458-1132  
KMACCESS.COM  
617.641.2802

On Monday, September 11, 2023, KMA auditors Aida Villoria and Nina Schatz performed a comprehensive accessibility audit of the immediate site, entrances, and all public and employee spaces at the South Shore Vocational Technical High School, located at 476 Webster St, Hanover, MA. The purpose of this audit was to identify conditions that do not comply with either the 2010 Americans with Disabilities Act (ADA) Standards or 521 CMR: The Rules and Regulations of the MA Architectural Access Board (MAAB).

Renovations are planned for this building that are expected to exceed 30% of the full and fair cash value of the building, which will trigger full compliance with 521 CMR. Drummey Rosanne Anderson, Inc. has been hired as the architect of record and understand that any existing architectural barriers within the project area will need to be mitigated, or a variance from the MAAB sought. The architects will use the findings of this report as a basis for their work.

### Building Description

The South Shore Vocational Technical High School was built in 1961 with additions and renovations in 1992. The one-story building includes various classrooms, vocational shops, administrative spaces, a cafeteria, a gymnasium, a library, and the nurse's office. To the north of the building are modular classrooms. To the east of the building are football, soccer, and baseball fields with a corresponding ticket booth building. The main buildings are surrounded by parking, including 6 designated accessible parking spaces.

### Jurisdictional Overview

The South Shore Vocational Technical High School is defined under the ADA as a *place of public accommodation* and under 521 CMR as a *public building*. As such, it will be subject to certain accessibility requirements when the planned alterations are made to the facility.

## 521 CMR

521 CMR: The Rules and Regulations of the MAAB is a section of 780 CMR: the MA Amendments to the International Building Code 2015. 521 CMR governs the “design, construction, and renovation of public buildings to make them accessible to, functional for, and safe for use by persons with disabilities.” The specific scoping provisions for renovations are reproduced in part here:

### 3.3 EXISTING BUILDINGS

All additions to, reconstruction, remodeling, and alterations or repairs of existing public buildings or facilities, which require a building permit, or which are so defined by a state or local inspector, shall be governed by all applicable subsections in 521 CMR 3.00: JURISDICTION.

- 3.3.1 If the work being performed amounts to less than 30% of the *full and fair cash value of the building* and
  - a. if the work costs less than \$100,000, then only the work being performed is required to comply with 521 CMR; or
  - b. if the work costs \$100,000 or more, then the work being performed is required to comply with 521 CMR. In addition, an accessible public entrance and an accessible toilet room, telephone, drinking fountain (if toilets, telephones and drinking fountains are provided) shall also be provided in compliance with 521 CMR.
- 3.3.2 If the work performed, including the exempted work, amounts to 30% or more of the full and fair cash value of the building (see definitions in 521 CMR 5.00), the entire building is required to comply with 521 CMR.
- 3.3.3 Alterations by a tenant do not trigger the requirements of 521 CMR 3.3.1b and 3.3.2 for other tenants. However, alterations, reconstruction, remodeling, repairs, construction, and changes in use falling in 521 CMR 3.3.1b and 3.3.2, will trigger compliance with 521 CMR in areas of public use, for the owner of the building.

KMA understands that South Shore Vocational Technical High School is planning a renovation to the entire building. Because this renovation is expected to cost greater than 30% of the full and fair cash value of the building, Section 3.3.2 will apply. This means that the Town will have to bring the entire building into



compliance with 521 CMR – or request variances not to do so on an issue-by-issue basis, on the basis of *impracticability*.

## ADA

Title II of the ADA prohibits discrimination on the basis of disability in State and Local Government Services. It further requires buildings and facilities providing these services to be designed, constructed, and altered in compliance with the accessibility standards established under the ADA.

There are two requirements under Title II of the ADA that require a public entity such as the Town of Hanover to remove existing barriers to bring an end to and to prevent discrimination against a person or people with disabilities. These two requirements are:

1. Program Access: requires that individuals with disabilities be provided an equally effective opportunity to participate in or benefit from a public entity's programs and services. The ADA requires that public entities provide physical and communication access to each program service or activity. The Town would need to identify and correct policies and practices that have the effect of discriminating against individuals with disabilities.
2. Alterations: Any alterations that are performed must conform to the version of the ADA Standards in force at the time of the alterations. Alterations may trigger an obligation to perform additional barrier removal outside the planned scope of work. The ADA accessible path of travel requirement states: "When alterations are made to a primary function area that affect the usability of that area, alterations to provide an accessible path of travel to the altered area must also be made unless the cost is disproportionate." Further, the Town would be required to maintain its existing facilities to ensure continued, unfettered, and uninterrupted access to persons with disabilities.

Program Access: To provide Program Access, the Town's fundamental obligation would be to consider who uses their programs and services, and to ensure that individuals with disabilities are afforded an equally effective opportunity to participate in, or benefit from, these programs and services, subject only to the limitations of fundamental alteration and/or undue burden. Therefore, on a system-wide basis the Town has an obligation to implement policy changes, if necessary, so


that persons with disabilities can have full access. However, this obligation exists outside the context of the planned renovations to the high school.






Alterations: Alterations to a primary function area require an accessible path of travel to (entrance) and through (route) the area. Buildings and elements altered after January 23rd, 1993 were required to comply with the 1991 ADA Accessibility Guidelines (“ADAAG”). Buildings and elements altered after March 15, 2012 are required to comply with the 2010 ADA Standards, with the exception that anything altered prior to March 15, 2012 that complies with the 1991 ADA Standards is not required to proactively be brought into compliance with the 2010 ADA Standards. This means that all areas of the building altered during the planned renovations will have to comply with the 2010 ADA Standards.



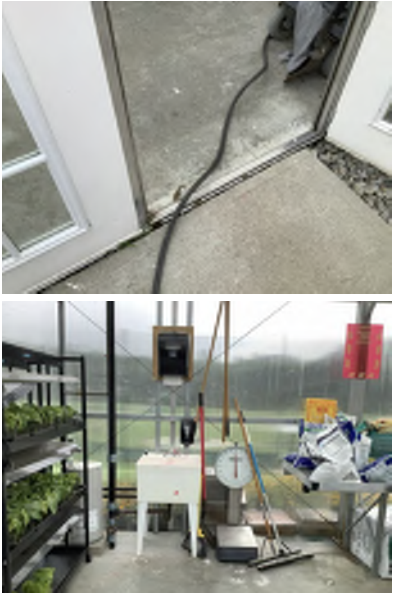
The alteration requirements under Section 202.4 state in part that “an *alteration* that affects or could affect the usability of or access to an area containing a primary function shall be made so as to ensure that, to the maximum extent feasible, the path of travel to the *altered* area, including the rest rooms, telephones, and drinking fountains serving the *altered* area, are readily *accessible* to and usable by individuals with disabilities.” This means that in addition to the bringing the altered areas into compliance, the Town will have to establish an accessible entrance to the building and eliminate any instances of non-compliance along the path of travel leading to or within the building.

### **Summary of Findings**

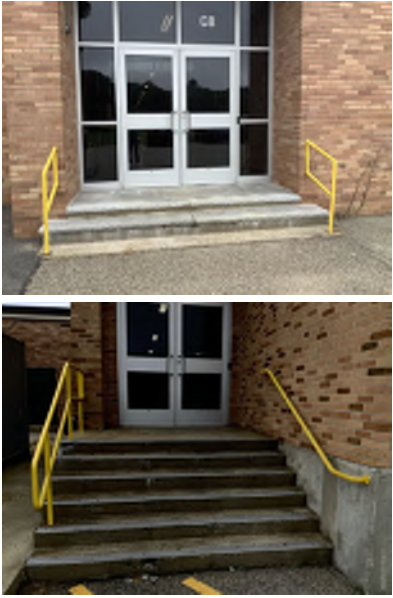


The following table details the barriers noted during our audit that would need to be mitigated in order to satisfy the above requirements under the ADA and 521 CMR. Please note that this was a comprehensive audit, and so any items in the project area that are not mentioned may be assumed to fully comply with 521 CMR and the ADA Standards.






EXTERIOR & ENTRANCE ISSUES		
#	Barrier	Photo
1.	<p><b>Accessible Parking Spaces (General)</b></p> <p>There is an insufficient number of accessible parking spaces. For a lot with 301-400 total spaces, 8 accessible spaces are required, 2 of which must be van accessible. Currently, 6 standard spaces are provided, 4 of which meet the dimensional requirements for van accessible spaces.</p>	No Photo
2.	<p><b>Parking near Main Entrance</b></p> <p>Both of the designated accessible parking spaces lack the required signage.</p> <p>Both of the designated accessible parking spaces are not located on the shortest accessible route to the accessible entrance.</p>	
3.	<p><b>Parking near Secondary Entrance</b></p> <p>Both of the designated accessible parking spaces lack the required signage.</p> <p>One of the designated accessible parking spaces and its associated access aisle have slopes &gt;2%, @ up to 2.7%.</p> <p>The access aisle is &lt;60" wide, measured centerline to centerline, @ 48".</p> <p>The walkway to the entrance has a running slope &gt;5%, and is not treated as a ramp, @ 5.1%.</p>	
4.	<p><b>Parking near Maintenance Building</b></p> <p>One of the designated accessible parking spaces lacks the required signage.</p>	

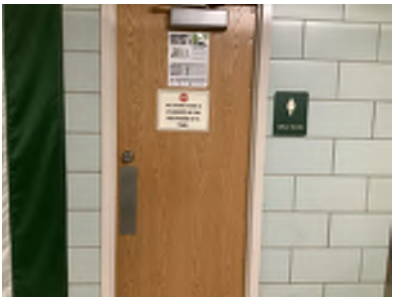



5.	<p><b>Playing Fields</b></p> <p>There is no accessible route to the sports fields due to the grass.</p> <p>There is no level 30" x 48" clear floor space adjacent to the dugout benches.</p>	
6.	<p><b>Bleachers</b></p> <p>There is no accessible route to the bleachers due to the grass and/or stairs.</p> <p>There is no level 30" x 48" clear floor space adjacent to the bleachers.</p>	
7.	<p><b>Grandstand</b></p> <p>There is no accessible route to the grandstand due to the grass and stairs.</p> <p>The grandstand lacks the required wheelchair spaces.</p> <p>The stairs to the grandstand have open risers.</p> <p>The stairs to the grandstand lack required handrail extensions.</p>	
8.	<p><b>Benches</b></p> <p>The benches are not located along an accessible route due to the grass.</p>	
9.	<p><b>Picnic Tables</b></p> <p>The picnic tables are not located along an accessible route due to the grass.</p>	





<p>10.</p>	<p><b>Ticket Booth + Toilets</b></p> <p>There is no accessible route to the ticket booth and toilets due to the grass.</p>	
<p>11.</p>	<p><b>Ticket Booth Toilets</b></p> <p>The bathroom signage is not located on the latch side of the doors.</p> <p>The lavatory pipes are not insulated.</p> <p>The lavatories lack the required 27" AFF knee clearance, @ 26".</p> <p>There are no rear or side grab bars.</p>	
<p>12.</p>	<p><b>Greenhouse</b></p> <p>The entry threshold is &gt;¼" high and not beveled.</p> <p>The utility sink is not accessible.</p> <p>The towel paper dispenser is mounted &gt;48" AFF to the highest control.</p>	







<p>13.</p>	<p><b>Entrances, Main Building</b></p> <p>Some of the stairs lack uniform riser heights. <i>Observed in entrance C1 and C8.</i></p> <p>Not all public entrances are accessible.</p> <p>Directional signage to the nearest accessible entrance is not provided at the inaccessible entrances.</p> <p>Some of the stairs lack the required handrail extensions on both sides.</p> <p>Some of the handrails are not mounted 33"-38" AFF, @ as little as 32".</p> <p>Most of the stair nosings are abrupt.</p> <p>Many doors require &gt;15 lbs. of force to open.</p>	
<p>14.</p>	<p><b>Entrances, Modular Building</b></p> <p>The stair and ramp lack required handrail extensions on both sides.</p> <p>The stair lacks uniform riser heights.</p> <p>The stair nosings are abrupt.</p> <p>The ramp lacks a level bottom landing, @ 3.9%.</p>	
<p>15.</p>	<p><b>Entrances 132A &amp; 132B</b></p> <p>The thresholds are &gt;½" high, @ up to 2".</p>	

16.	<p><b>Intercoms</b></p> <p>The intercoms at entrances are mounted &gt;48" AFF, @ up to 58".</p>	
17.	<p><b>Egress, Main Building</b></p> <p>Some of the stairs lacks uniform riser heights. <i>Observed in vestibule 105 and A6.</i></p> <p>Many egress doors do not lead to an accessible route due to the stairs.</p> <p>Some egress stairs lack the required handrails on both sides.</p> <p>Most egress stairs lack the required handrail extensions.</p> <p>Some of the handrails are not mounted 33"-38" AFF, @ 32".</p> <p>Many of the stair nosings are abrupt.</p> <p>Many thresholds are &gt;½" high, @ up to 2".</p>	 
18.	<p><b>Egress Ramp at Machine Shop</b></p> <p>The route leading to an egress door has a running slope &lt;8.3%, @ 6.8% and lacks the required handrails and level landings.</p>	
19.	<p><b>Egress, Modular Building</b></p> <p>The egress door does not lead to an accessible route due to stairs and grass/gravel surfaces.</p> <p>The stair lacks handrails on both sides.</p>	




INTERIOR		
20.	<p><b>Interior Signage</b></p> <p>Some of the interior signage is not located on the latch side of the door.</p>	
21.	<p><b>Illuminated Exit Signs</b></p> <p>The ground-level illuminated exit signs lack the International Symbol of Accessibility.</p>	
22.	<p><b>Maneuvering Clearances at Doors</b></p> <p>Door maneuvering clearances throughout the building are &lt;18" on the latch pull side for a forward approach.</p> <p>Doors throughout the building lack the required 12" minimum push side maneuvering clearance. Note: These doors have both a latch and a closer.</p>	
23.	<p><b>Lockers</b></p> <p>Most of the locker shelves and hooks are not 15"-48" AFF.</p>	

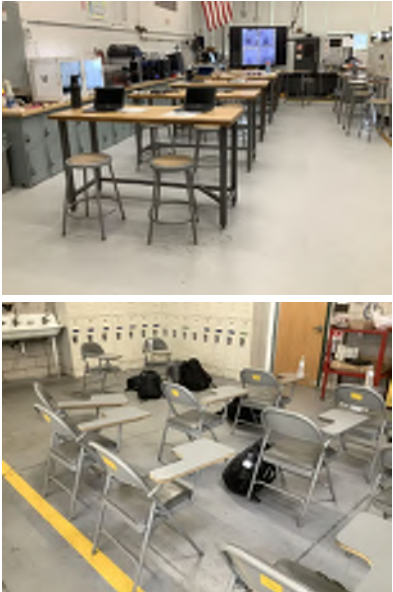

24.	<p><b>Fire Alarm Pull Stations</b></p> <p>Most fire alarm pull stations are mounted &gt;48" AFF, @ up to 62".</p>	
25.	<p><b>AED</b></p> <p>Many of the AEDs protrude into the circulation route, @ up to 6", and are mounted &gt;48" AFF to the highest control, @ 52".</p>	
26.	<p><b>Emergency Shut Off Controls at Shops</b></p> <p>Most emergency shut off controls are mounted &gt;48" AFF, @ up to 60".</p>	<p>No Photo</p>
27.	<p><b>Phones</b></p> <p>Most telephones are mounted &gt;48" AFF to the highest control, @ up to 59".</p>	
28.	<p><b>Washer/Driers</b></p> <p>The top drier unit controls are &gt;54" AFF, @ up to 76" AFF.</p> <p><i>Observed at kitchen classroom and cosmetology.</i></p>	






29.	<p><b>Cabinet at Vestibule 110</b></p> <p>The wall-mounted cabinet protrudes &gt;4" in the circulation area, @ 17".</p>	
30.	<p><b>Health Classroom</b></p> <p>The coat hooks are mounted &gt;48" AFF.</p>	
31.	<p><b>Door at Health Classroom</b></p> <p>The door hardware requires tight grasping, pinching, or twisting of the wrist to operate.</p>	
32.	<p><b>Drinking Fountains</b></p> <p>Most drinking fountains lack the required 27" AFF minimum knee clearance for a forward approach, @ 26 1/2".</p> <p>The building lacks the required number of drinking fountains for standing persons.</p> <p>Some of the drinking fountain spouts are mounted &gt;36" AFF, @ 38".</p> <p>Some of the drinking fountains protrude &gt;4" into the circulation route, @ 19".</p>	



<p>33.</p>	<p><b>Double Doors Between Corridors 160 and 211</b></p> <p>The corridor doors lack at least one leaf that provides 32" clear width, @ 31 ½".</p>	
<p>34.</p>	<p><b>Student Services</b></p> <p>The student services counter is &gt;36" AFF, @ 42 ½".</p>	
<p>35.</p>	<p><b>Classroom / Shop Equipment</b></p> <p>Most of the shop equipment controls are mounted &gt;48" AFF, and they require tight grasping, pinching, and/or twisting of the wrist to operate. The force required to activate the controls is &gt;5 lbf.</p> <p>Most of the shop classrooms lack at least one work bench mounted at 34" AFF maximum with compliant knee space for a forward approach.</p>	

<p>36.</p>	<p><b>Classroom / Shop Desks</b></p> <p>Many of the tables and desks lack the required 27" AFF minimum knee clearance. Some of the tables and desks lack the required 30" minimum width and/or 17" minimum depth.</p> <p>Some of the tables and desks are &gt;34" AFF, @ up to 43".</p> <p>Some of the classrooms have non-accessible moveable chairs with desk attachments.</p>	
<p>37.</p>	<p><b>Specialty Sinks</b></p> <p>Classrooms and shops with specialty sinks lack an adjacent accessible sink with the required knee clearance for a forward approach.</p>	

<p>38.</p>	<p><b>Eye Wash + Emergency Shower Stations</b></p> <p>Many of the emergency eyewash and shower pulls are mounted &gt;48" AFF, @ up to 61".</p> <p>Many of the emergency eyewash and shower stations lack the required knee and toe clearances due to the pipes.</p>	
<p>39.</p>	<p><b>Teacher's Office at Woodshop</b></p> <p>There is no accessible route to the teacher's office due to the step.</p> <p>The step lacks handrails mounted on both sides.</p>	
<p>40.</p>	<p><b>Stairs at Metal Shop</b></p> <p>The stair in the metal shop lacks the required handrail extensions.</p> <p>The headroom under the stair lacks the required 80" of vertical clearance.</p> <p>The second level of the metal shop is not accessible due to the stair.</p>	

41. **Cosmetology**

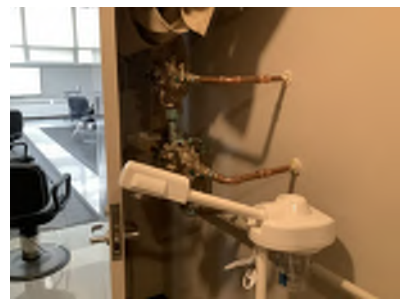
The working counters and surfaces above hair washing sinks are all >34" AFF, @ up to 44".

The sink in the service room lacks the required knee clearance for a forward approach.

The pipes in the service room obstruct the full door swing clearance.

The sink and working surface in the prep room are >34" AFF, @ 36" and lack the required knee clearance for a forward approach.

At least 50% of the room storage is not within an accessible reach range.





42. **Kitchen Classroom**

The fire blanket is mounted >48" AFF to the handle, @ 70".



Work surfaces and kitchen equipment surfaces are >34" AFF, @ 36"-38".


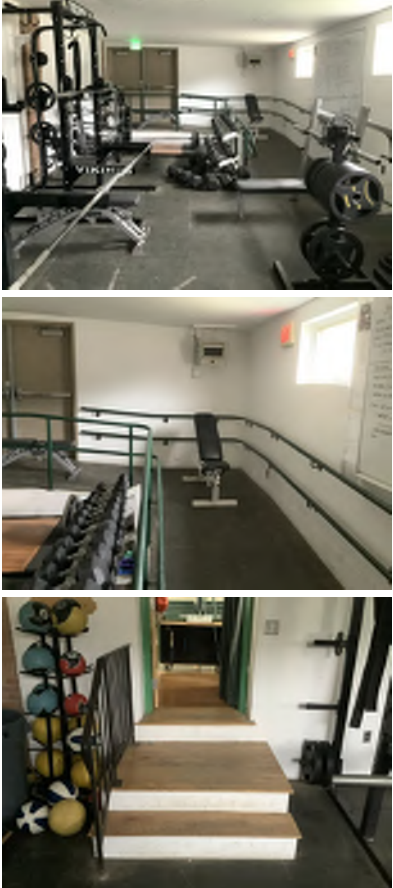
The dishwasher controls are >48" AFF, @ 65".





The touchscreen monitor controls are > 48" AFF, @ 71".













<p>43.</p>	<p><b>Restaurant</b></p> <p>The transaction counter is &gt;36" AFF, @ 41".</p> <p>Knee and toe clearance is not provided in at least 5% of the tables.</p> <p>The headroom under the TV provides &lt;80" vertical clearance, @ 53".</p>	 <p>The top photograph shows a service counter that is too high for wheelchair users. The middle photograph shows a dining table with no knee or toe clearance underneath. The bottom photograph shows a television mounted on a wall at a height that does not provide sufficient vertical clearance for wheelchair users.</p>
<p>44.</p>	<p><b>Stair to Library</b></p> <p>The handrails extend &lt;12" plus the width of one tread, @ 6".</p>	 <p>The photograph shows a staircase with a handrail that is not extended far enough to meet accessibility requirements.</p>




<p>45.</p>	<p><b>Library</b></p> <p>The library is not located along an accessible route due to the stairs.</p> <p>The stairs lack required handrails.</p> <p>The assembly area within the library lacks the minimum required number of wheelchair accessible spaces. For an assembly area with 51-300 seats, 4 wheelchair spaces must be provided. Currently, no wheelchair spaces are provided.</p>	
<p>46.</p>	<p><b>Fitness Room</b></p> <p>The fitness room is not located along an accessible route due to the stairs/step.</p> <p>Some of the equipment obstructs the accessible egress route through the ramp.</p> <p>The ramp lacks required handrail extensions.</p> <p>The headroom under the radiator at the ramp provides &lt;80" vertical clearance, @ 65".</p> <p>The stair lacks required handrail on one side and handrail extensions on one side.</p> <p>The stair nosing is &gt;1 1/2", @ 2", and not beveled.</p>	

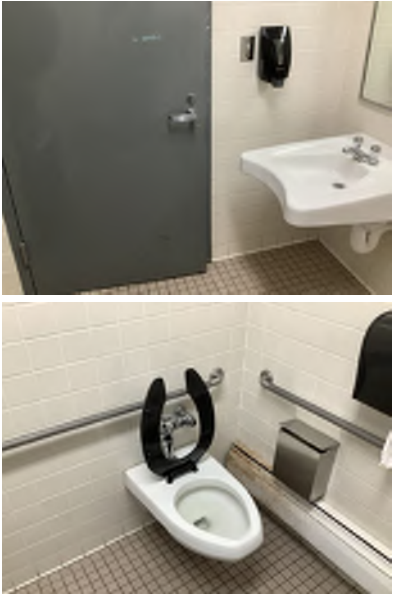


47.	<p><b>Lavatories at Locker Rooms and Toilet Rooms</b></p> <p>Many lavatory pipes are not insulated.</p> <p>Most lavatories lack the required knee clearance of 27" AFF, @ as little as 25".</p>	
48.	<p><b>Mirrors at Toilet Rooms</b></p> <p>The bottom of the reflective surfaces is &gt;40" AFF, @ up to 52".</p>	
49.	<p><b>Toilet Room Dispensers</b></p> <p>Most soap dispensers are mounted &gt;48" AFF, @ up to 55".</p> <p>Some paper towel dispensers are mounted &gt;48" AFF, @ up to 55".</p> <p>Most paper towel dispensers protrude &gt;4" into the circulation route, @ 9".</p>	
50.	<p><b>Grab Bars at Toilets</b></p> <p>The side grab bars at accessible toilets extend &lt;54" from the rear wall, @ as little as 46 ½".</p> <p>Most rear and side grab bars are not mounted 33"-36" AFF, @ as little as 31".</p> <p>Most toilet paper dispensers are mounted &lt;12" above the side grab bar.</p>	

<p>51.</p>	<p><b>Boys' &amp; Girls' Locker Rooms</b></p> <p>The benches do not provide back support and are &lt;20" deep.</p> <p>At least 5% of the lockers do not have shelves and hooks between 15"-48" AFF.</p> <p>The locker rooms lack an accessible roll-in or transfer shower.</p> <p><i>Observed at boy's and girl's locker rooms.</i></p> <p>The locker room lacks an accessible toilet stall.</p> <p>The rim of the urinal is &gt;17" AFF, @ 23".</p> <p><i>Observed at boy's locker room.</i></p>	   
<p>52.</p>	<p><b>Boys' &amp; Girls' Toilet Rooms near Gymnasium</b></p> <p>The doors provide &lt;32" clear width, @ 27".</p> <p>The toilet rooms lack an accessible stall.</p> <p><i>Observed at boys' and girls' toilet rooms.</i></p> <p>The rim of the urinal is &gt;17" AFF, @ 23".</p> <p><i>Observed at boys' toilet room.</i></p>	

<p>53.</p>	<p><b>Staff Men’s Toilet Room near Gymnasium</b></p> <p>The door provides &lt;32” clear width, @ 27”.</p> <p>The toilet room lacks an accessible stall.</p> <p>The rim of the urinal is &gt;17” AFF, @ 23”.</p>	
<p>54.</p>	<p><b>Staff Women’s Toilet Room near Gymnasium</b></p> <p>The accessible stall door swings inward.</p> <p>The accessible stall door lacks a pull device on the exterior side of the door.</p> <p>The accessible stall door is not self-closing.</p> <p>The toilet partition is &gt;4” from the door hinge to the wall, @30”.</p>	
<p>55.</p>	<p><b>Staff Toilet Room in Student Services</b></p> <p>The room lacks the required footprint and accessible elements for an accessible toilet room.</p>	



<p>56.</p>	<p><b>Toilet Room at Nurse's</b></p> <p>The centerline of the toilet is not 18" from the side wall, @ 18 ¾".</p> <p>The toilet flush control is not located on the open side of the toilet.</p>	
<p>57.</p>	<p><b>Girls' Toilet Room adjacent to Metal Fabrication</b></p> <p>The door provides &lt;32" clear width, @ 27".</p> <p>The accessible stall door swings inward.</p> <p>The accessible stall door is not self-closing.</p> <p>The centerline of the toilet is not 18" from the side wall, @ 16".</p> <p>There is no rear or side grab bar.</p> <p>The toilet partition is &gt;4" from the door hinge to the wall, @ 30".</p>	
<p>58.</p>	<p><b>Women's Toilet Room adjacent to Restaurant</b></p> <p>The door pull maneuvering clearance is &lt;18", @ 15 ½" due to the sink.</p> <p>The centerline of the toilet is not 18" from the side wall, @ 18 ½".</p>	

<p>59.</p>	<p><b>Toilet Room at Cosmetology</b></p> <p>The door pull maneuvering clearance is &lt;18", @ 3" due to the sink.</p> <p>The paper towel dispenser obstructs the full door swing clearance.</p> <p>The centerline of the toilet is not 18" from the side wall, @ 19".</p>	
<p>60.</p>	<p><b>Boys' &amp; Girls' Toilet Rooms at Kitchen Classroom</b></p> <p>The centerline of the toilet is not 18" from the side wall, @ 19 1/2".</p> <p>The door swings inward.</p>	
<p>61.</p>	<p><b>Girls' and Boys' Toilets (1992 Building, Part B)</b></p> <p>The centerline of the toilet is not 18" from the side wall, @ 18 1/2".</p>	

End of Report.



# **South Shore Vocational Technical High School**

**Hanover, Massachusetts**

## **Structural Assessment**

**September 21, 2023**

### **STRUCTURAL ASSESSMENT**

The purpose of this report is to describe, in broad terms, the structure of the existing building; to comment on the condition of the existing building; and on the feasibility of renovation and expansion of the school.

#### **Scope**

1. Description of existing structure.
2. Comments on the existing condition.
3. Comments on the feasibility of renovation and expansion.

#### **Basis of the Report**

This report is based on our visual observations during our site visit on September 21, 2023; review of the District Facilities Master Plan report, dated February 9, 2018 prepared by Drummey Rosane Anderson, Inc., a review of the drawings of the original construction prepared by Korslund, LeNormand & Quann, Inc., Architects, dated April 21, 1961; and, a review of the drawings for the addition prepared by HKT Architects, Inc., dated September 15, 1992.

During our site visit, we did not remove any finishes or take measurements, so our understanding of the structure is limited to the available drawings and observations of the exposed structure and the exterior facade.

#### **Building Description**

The school is located on Webster Street in Hanover, Massachusetts. The entire school is essentially a single story steel and concrete structure. The original school was constructed in 1961. The school was expanded in 1992, the addition housed additional vocational shops, classrooms and lecture halls.

The typical roof of the original structure is poured gypsum on form board supported between bulb tees. The bulb tees span between steel beams which in turn span between steel trusses. At some areas of the roof structure, the bulb tees span between long span open web steel joists. The trusses are supported on precast concrete columns. The joists are supported on precast concrete beams that span between precast concrete columns. The columns and the exterior walls are supported on reinforced concrete foundations. The first floor is a concrete slab-on-grade.

The typical roof of the addition is a 1 1/2 in. metal deck spanning between open web steel joists which span between structural steel girders and wide flange columns. The columns and the exterior walls are supported on reinforced concrete foundations. The first floor is a concrete slab-on-grade.

## **EXISTING CONDITIONS**

Based on our observations, the school structure is performing well based on the age of the school. We observed some signs of water leakage at a few locations. We observed minor cracks in the interior masonry walls at some locations. We observed separation of non-structural masonry walls from the 1992 addition from the original masonry walls at some locations. We observed some cracks in the exterior masonry façade and signs of past repairs. We observed some minor spalling of concrete at the corners of foundation walls and in the exterior concrete stairs.

We did not observe any signs of foundation settlement. We did not observe any undue vibrations due to footfall on the supported floor slab.

## **PROPOSED SCHEMES**

Based on our observations and our analysis of the existing drawings, no structural upgrades are required for any proposed scheme that has limited renovation scope and does not require any structural modifications. The extent of the code required structural upgrades is dependent on the extents of the proposed renovations. The following is a description of the compliance methods that may be triggered depending on the extents of the proposed schemes as dictated by other disciplines.

## **GENERAL CODE CONSIDERATIONS**

### **Primary Structural Code Issues Related To the Existing Structure**

If any repairs, renovations, additions or change of occupancy or use are made to the existing structures, a check for compliance with 780 CMR, Chapter 34 "Existing Building Code" (Massachusetts Amendments to The International Existing Building Code 2015) of the Massachusetts Amendments to the International Building Code 2015 (IBC 2015) and reference code "International Existing Building Code 2015" (IEBC 2015) is required. The intent of the IEBC and the related Massachusetts Amendments to IEBC is to provide alternative approaches to alterations, repairs, additions and/or a change of occupancy or use without requiring full compliance with the code requirements for new construction.

The IEBC provides three compliance methods for the repair, alteration, change of use or additions to an existing structure. Compliance is required with only one of the three compliance alternatives. Once the compliance alternative is selected, the project will have to comply with all requirements of that particular method. The requirements from the three compliance alternatives cannot be applied in combination with each other.

The three compliance methods are as follows:

1. Prescription Compliance Method.
2. Work Area Compliance Method.



3. Performance Compliance Method.

**Comment**

The approach is to evaluate the compliance requirements for each of the three methods and select the method that would yield the most cost effective solution for the structural scope of the project. The selection of the compliance method may have to be re-evaluated after the impact of the selected method is understood and after analyzing the compliance requirements of the other disciplines, Architectural, Mechanical, Fire Protection, Electrical and Plumbing.

Since the existing building contains un-reinforced masonry wall structures, the anchorage of the walls to the floor and roof structure will have to be evaluated if the work area of the project exceeds 50 percent of the aggregate floor and roof area of the building.

**Prescriptive Compliance Method**

In this method, compliance with Chapter 4 of the IEBC is required. As part of the scope of this report, the extent of the compliance requirements identified are limited to the structural requirements of this chapter.

**Additions**

Based on the project scope, the following structural issues have to be addressed:

- All additions should comply with the code requirements for new construction in the IBC.
- For additions that are not structurally independent of an existing structure, the existing structure and its addition, acting as a single structure, shall meet the requirements of the Code for New Construction for resisting lateral loads, except for the existing lateral load carrying structural elements whose demand-capacity ratio is not increased by more than 10 percent, these elements can remain unaltered.
- Any existing gravity, load-carrying structural element for which an addition or its related alterations causes an increase in the design gravity load of more than 5 percent shall be strengthened, supplemented or replaced.

**Alterations**

- Any existing gravity, load-carrying structural element for which an addition or its related alterations causes an increase in the design gravity load of more than 5 percent shall be strengthened, supplemented or replaced.
- For alterations that would increase the design lateral loads or cause a structural irregularity or decrease the capacity of any lateral load carrying structural element, the structure of the altered building shall meet the requirements of the Code for New Construction, except for the existing lateral load carrying structural elements whose demand-capacity ratio is not increased by more than 10 percent, these elements can remain unaltered.

### **Work Area Compliance Method**

In this method, compliance with Chapter 5 through 13 of the IEBC is required. As part of the scope of this report, the extent of the compliance requirements identified are limited to the structural requirements of these chapters.

In this method, the extent of alterations has to be classified into LEVELS OF WORK based on the scope and extent of the alterations to the existing structure. The LEVEL OF WORK can be classified into LEVEL 1, LEVEL 2 or LEVEL 3 Alterations. In addition, there are requirements that have to be satisfied for additions to the existing structure.

The extent of the renovations (includes Architectural, FP and MEP renovations) for this project exceeds 50 percent of the aggregate area of the building, thus, the LEVEL OF WORK for this project would be classified as LEVEL 3 Alterations. This would require compliance with provision of Chapter 7, 8 and 9 of the IEBC. If the scope of the project includes new additions to the existing structure; this would trigger compliance with provisions in Chapter 11 of the IEBC.

#### **Level 3 Alterations**

- Any existing gravity, load-carrying structural element for which an alteration causes an increase in the design gravity load of more than 5 percent shall be strengthened, supplemented or replaced.
- For alterations where more than 30 percent of the total floor area and roof areas of a building or structure have been or proposed to be involved in structural alterations within a 12 month period, the evaluation and analysis shall demonstrate that the altered building complies with the full design wind loads as per the code requirements for new construction and with reduced IBC level seismic forces.
- For alterations where not more than 30 percent of the total floor and roof areas of a building are involved in structural alterations within a 12 month period, the evaluation and analysis shall demonstrate that the altered building or structure complies with the loads at the time of the original construction or the most recent substantial alteration (more than 30 percent of total floor and roof area). If these alterations increase the seismic demand-capacity ratio on any structural element by more than 10 percent, that particular structural element shall comply with reduced IBC level seismic forces.
- Existing anchorage of all unreinforced masonry walls to the structure have to be evaluated.

#### **Additions**

- All additions shall comply with the requirements for the Code for New Construction in the IBC.
- Any existing gravity, load-carrying structural element for which an addition or its related alterations cause an increase in design gravity load of more than 5 percent shall be strengthened, supplemented or replaced.
- For additions that are not structurally independent of any existing structures, the existing structure and its additions, acting as a single structure, shall meet the requirements of the

Code for New Construction in the IBC for resisting wind loads and IBC Level Seismic Forces (may be lower than loads from the Code for New Construction in the IBC), except for small additions that would not increase the lateral force story shear in any story by more than 10 percent cumulative. In this case, the existing lateral load resisting system can remain unaltered.

### **Performance Compliance Method**

Following the requirements of this method for the alterations and additions may be onerous on the project because this method requires that the altered existing structure and the additions meet the requirements for the Code for New Construction in the IBC.

### **PARTICULAR REQUIREMENTS OF COMPLIANCE METHODS**

For our project, in order to meet compliance with one of the two compliance methods “Prescriptive Compliance Method” or the “Work Area Compliance Method”, we have to address the following:

#### **Prescriptive Compliance Method**

##### **Additions**

The proposed additions would be designed structurally independent of the existing structures, thus, would not impart any additional lateral loads on the existing structure.

If the proposed alterations are such that the alterations increase the design lateral loads on the existing building or cause any structural irregularity or decrease the lateral load carrying capacity of the building, the structure of the altered building shall meet the requirements of the Code for New Construction in the IBC.

If the proposed additions increase the design gravity load on portions of the existing roof members, these members would have to be reinforced and this incidental structural alteration of the existing structures would have to be accounted for in the scope of the alterations to the existing school and would trigger requirements for alterations.

##### **Alterations**

Alterations that would increase the design gravity loads by more than 5 percent on any structural members would have to be reinforced.

If the proposed alterations of the structure increases the demand-capacity ratio of any lateral load resisting element by more than 10 percent, the structure of the altered building or structure shall meet the requirements for the Code for New Construction.

## **Work Area Compliance Method**

### **Level 3 Alterations**

If the proposed structural alterations of an existing structure are less than 30 percent of the total floor and roof areas of the existing structure, we have to demonstrate that the altered structure complies with the loads applicable at the time of the original construction and that the seismic demand-capacity ratio is not increased by more than 10 percent on any existing structural element. Those structural elements whose seismic demand-capacity ratio is increased by more than 10 percent shall comply with reduced IBC level seismic forces.

If the proposed structural alterations of an existing structure exceed 30 percent of the total floor and roof areas of an existing structure, we have to demonstrate that the altered structure complies with the IBC for wind loading and with reduced IBC level seismic forces.

Existing anchorage of all unreinforced masonry walls to the structure have to be evaluated. If the existing anchorage of the walls to the structure is deficient, the tops of the masonry walls will require new connections to the structure.

### **Additions**

Any proposed additions would be designed structurally independent of the existing structures, thus, they would not impart any additional lateral loads on the existing structures.

### **Comment**

The compliance requirements of the two methods, in most respects, are very similar. The Prescriptive Compliance Method would require that the existing lateral load resisting systems meet the requirements of the Code for New Construction of the IBC, even for small increases of design lateral loads. The requirements of both methods will require anchorage of all existing masonry walls. Based on this, we would recommend the Work Area Compliance Method for the project.

## **SUMMARY**

The existing school structure appears to be performing well. All of the structural components that are visible appear in sound condition.

No structural upgrades would be required for any proposed scheme that has limited renovation scope and does not require any structural modifications to the existing structure.

Any major, proposed renovations and additions would likely require that the structure be updated to meet the requirements for Code for New Construction. This may require addition of some shear walls, connecting the floor and roof diaphragms to the existing masonry walls and the clipping of non-structural masonry walls to the structure. All of the existing masonry walls would have to be adequately connected to the roof and floor structure.





## Fire Protection

### Existing Conditions

The original 76,150 square foot (sf) school building was constructed 62 years ago, and was not sprinklered at the time of construction. A 6,250 sf addition was added in 1978, but the general laws and building code at that time evidently did not require the installation or retrofitting of an automatic fire suppression system. It appears that there have been no modifications or renovations since that time which would have required retrofitting the building with an automatic fire suppression system.

A 38,600 sf addition was constructed in 1992. The addition was equipped with an automatic wet pipe fire sprinkler system, but the original building and 1978 addition were not. Two zones were provided.

The 8" fire service main enters the building through the floor in the sprinkler/water room on the west side of the 1992 addition. The system riser is equipped with a double check valve assembly, supervised control valves, riser check valves with gauges and main drains, pressure switches, and fire department connection with check valve.



Sprinkler System Riser



Pressure Switches

Sprinkler system piping is a combination of schedule 10 and schedule 40 pipe with either grooved or threaded joints. Observable piping appeared to be in good condition, with evidence of minor, non-active leaks at various fittings throughout the system.

The majority of the sprinklers are concealed pendent sprinklers in areas with suspended ceilings, and upright sprinklers in areas without ceilings. With the exception of a few locations, sprinkler spacing, distance from heat sources, and distance from obstructions appear to be code compliant.

The existing cooking kitchen and culinary arts kitchen hoods are equipped with integral fire suppression systems.

The auto body shop paint booths are equipped with chemical type fire suppression systems.



Hood Suppression System



Spray Booth Suppression System

## Deficiencies

The existing building does not meet current code requirements.

The current Massachusetts State Building Code requires all newly constructed buildings of Use Group E – Educational which are over 12,000 square feet in area to be equipped with an automatic sprinkler system. In addition, legitimate stages are required to be equipped with automatic standpipe systems.

Massachusetts General Laws, Part I, Title XX, Chapter 148, Section 26G, requires automatic sprinkler systems be installed in all buildings, including additions, with a gross area totaling more than 7,500 square feet. This law is only triggered if a new building is constructed, an addition is built onto an existing building, or major alterations or modifications are planned for an existing structure. Major alterations and modifications are further defined and discussed in the 2009 advisory memorandum issued by the Executive Office of Public Safety and Security's Department of Fire Services.

Hydrant flow test data was not available, so it is unknown at this time if the existing public water supply system is of adequate capacity to support a new fire sprinkler system providing complete building coverage. However, the existing sprinkler system main drain test tags show a static pressure of about 65psi, which is an indication that the existing public water supply most likely has adequate capacity and that a fire pump would not be required.

The system only has two risers. Risers are limited to serving 52,000sf of horizontal area. This building with a footprint of about 121,000sf should be equipped with three separate risers.

With the exception of a few locations, sprinkler spacing, distance from heat sources, distance from obstructions, thermal sensitivity, and temperature rating appear to be code compliant.

Sidewall sprinklers have not been installed under overhead doors.

Sprinklers have not been installed in student work cubicles in the shop areas.

The carpentry dust collection system is not equipped with dry sprinklers installed within the exhaust ductwork.

## Recommendations

In accordance with Chapter 34 of the current Massachusetts State Building Code, existing buildings in Use Group E are not required to be retrofitted with an automatic fire sprinkler system or brought into full compliance with the new codes in force unless they undergo major alterations or additions.

However, because of the proven property and life-saving benefits of these systems, this office would recommend retrofitting the original building in the near future regardless of renovation plans, as well as modifications of the existing systems for compliance with current codes.

In addition, the existing system should be flushed and internally inspected for obstructions, and corroded fittings should be replaced.

#### **Notes**

If a fire pump is required, it would need to be diesel engine driven, or electric motor driven with an emergency generator for back-up. The fire pump needs to be located within a dedicated 2-hour fire rated room with exterior access.

The building appears to be of non-combustible construction, so sprinklers would not be required in the non-combustible interstitial spaces above suspended ceilings.

## Plumbing

### Existing Conditions

#### Plumbing Systems

The existing school building is equipped with several plumbing systems including domestic hot and cold water; sanitary drain, waste, and vent; natural gas; storm drainage; laboratory waste and vent; and compressed air.

The building has two domestic water supplies, one in the original building, and another in the 1992 addition. The original building's water is supplied underground through a four-inch (4") ductile iron service. The four-inch (4") domestic water supply is equipped with a strainer, isolation valves, and a reduced pressure backflow preventer. The water service piping is a mixture of ductile iron and copper, appears to be in fair condition.



Water Service - Original Building



Water Service - 1992 Addition

The 1992 additions' water service is also 4" and equipped with a strainer, isolation valves, and a reduced pressure backflow preventer. The water service piping is a mixture of ductile iron and copper, appears to be in good condition.

Only the exposed water piping scattered throughout the building could be observed and evaluated. The domestic water piping is hard drawn copper tube of various vintages and appears to be in fair to good condition, with some evidence of previous leaks. The majority of piping is insulated. Depending on vintage, the pipe insulation is poor or fair. Newer pipe insulation is in good condition.

The water heating plant is located in the mechanical room and consists of two Heat Transfer Products (HTP) model EP-299NVWH water heaters and a Rheem model ST260A 257-gallon hot water storage tank. The domestic hot water is a dual-temperature system (120°F and 135°F) with a Symmons thermostatic mixing valve providing 135°F hot water, and a Leonard high-low mixing valve station providing 140°F hot water. Each system is equipped with hot water recirculation pumps. The piping around the water heater, storage tank, and mixing valves is in good condition. The water heater combustion air and exhaust vent piping appear to be CPVC.

An electric water heater in the boy's locker room area serves an adjacent mop service basin.



Water Heaters and Storage Tank



Mixing Valves

What could be seen of the existing sanitary drain, waste and vent system appears to be a combination of drainage pattern copper and cast iron. The majority of the piping is hub and spigot cast iron with either gasketed or leaded and caulked joints, with some no-hub cast iron pipe with rubber couplings and stainless steel bands with shields, as well as threaded galvanized steel vent piping. Copper drainage piping is limited primarily to fixture connections. Visible piping was limited, but what could be seen appeared to be in good condition, with little evidence of active leaks.



Waste and Vent Piping



Copper and No-Hub Waste Piping

What could be seen of the existing storm drainage piping is hub and spigot cast iron with either gasketed or leaded and caulked joints, along with some no-hub cast iron pipe with rubber couplings and stainless steel bands with shields. The majority of the observable piping was insulated. Visible piping appeared to be in good condition. Storm water is collected through roof drains with interior storm drainage piping. The 1992 addition includes a pitched roof with a gutter and downspouts.

The building has two separate underground natural gas services, one in the original building, and another in the 1992 addition. The original building is equipped with a natural gas service located outside the administrative office area on the north west side of the building. This natural gas system provides both elevated pressure and low pressure gas to the building, although not all of the piping is identified as such. The 1992 gas service is located at the northeast side of the addition and provide low pressure gas only. The gas services serve the domestic water heaters, building heating equipment, kitchen equipment, culinary arts equipment, shops, and science classrooms. The kitchens and science classrooms appear to be equipped with emergency gas shutoffs, although the kitchen system may not be interlocked with the kitchen exhaust. Gas piping is steel with welded or threaded fittings, and appears to be in good condition. Some gas piping has been reworked and includes pressed fittings.





Original Building Gas Service



1992 Addition Gas Service

The building heating system includes three direct vent gas-fired hot water boilers. Combustion air is provided through an exterior louver and insulated single wall galvanized steel ductwork. The boiler exhaust vent piping is double wall positive pressure factory built chimney with stainless steel inner liner and outer jacket. The vents extend independently and exit through the roof.



Combustion Air Ducting



Photo 1- Boiler Venting

Natural gas also serves two existing standby generators.

The total combined load of all gas fired equipment is unknown at this time.

Air compressors provide compressed air to the shops. Compressed air piping is threaded schedule 40 steel or copper tube and appears to be in good condition.

Some of the science classrooms are equipped with non-potable water, and a laboratory waste system with an acid neutralization system consisting of a tank with limestone chips. Non-potable hot and cold water is provided through dedicated reduced pressure backflow preventers. The laboratory waste piping system includes copper, PVC, and fusion welded polypropylene. Visible piping appears to be in good condition.



Lab Waste and Neutralizing Tank



Non-Potable Water Backflow Preventers

### Plumbing Fixtures

Restroom plumbing fixtures include wall hung toilets, floor mounted toilets, urinals, and lavatories with a combination of manual and automatic flush valves and manual, automatic, or mechanical metering faucets.

There are various other fixtures located throughout the building including drinking fountains and bottle fillers, multiple user handwashing sinks, service sinks, laboratory sinks, classroom and general use sinks, hair wash sinks, gang style and single-user showers, emergency eye wash and shower stations, floor drains, and kitchen equipment.

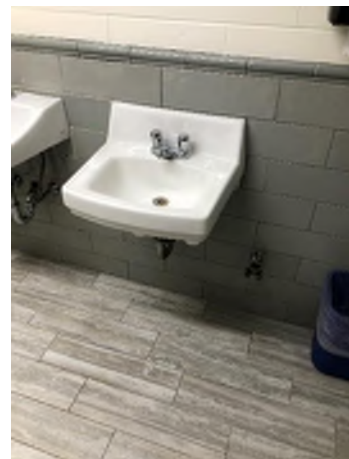
Various original plumbing fixtures, flush valves, and faucets have been replaced over the years.



Toilet



Urinals



Lavatory



Lab Sink



Water Cooler with Bottle Filler



Gang Lavatory

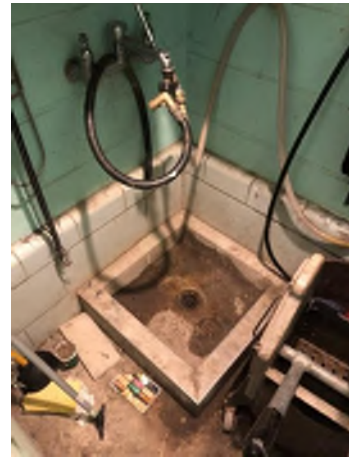




In-Floor Lab Waste Neutralizer



Shampoo Sink



Mop Sink



Emergency Safety Station



General Use Sink



Shop Sink

The hair wash sinks in Cosmetology are equipped with hair interceptors.

The screen wash station in graphic design is equipped with a filtration system to catch ink sludge and emulsion waste.

Kitchens are equipped with grease interceptors and emergency equipment shutoff, although it is unclear as to how this system is interconnected with the gas supply and exhaust fans.



Recessed Grease Interceptor



Grease Interceptor



Kitchen Emergency Shut-Off



Kitchen Emergency Gas Valve



Culinary Arts Hood Suppression



Kitchen Trench Drain



Sink Drain & Grease Interceptor



Scullery Sink



Cooking Equipment

The original automotive shops' (now metal fabrication) floor drains appear to be piped through an oil separator prior to connection to the sanitary building drain. It is unknown if the current automotive shops' trench drain discharges to an oil separator.





Trench Drain



Gas/Oil/Sand Interceptor

## Deficiencies

There were various deficiencies noted. While many of the items may have been allowed by the codes in force at the time of construction, they do not meet the latest edition of the codes and would most likely need to be addressed during any major renovation.

These items include:

- We suspect that the hot water recirculation piping for lavatories is not installed in accordance with the current energy efficiency code requirement (piped to within 24" of the fixture supply) and would have to be modified.
- Plumbing fixtures range in condition, but may not meet current codes for flow rates and/or accessibility.
- It is unknown if there are flow control devices installed on the recessed grease traps.
- Grease traps do not have proper signage.
- Kettles do not appear to drain through a grease trap.
- Automatic detergent and sanitizer dispenser water connections are not protected with backflow preventers.
- Some rooftop plumbing vents are too close to fresh air intakes.
- Various hose connections throughout the building are not equipped with vacuum breakers.
- Floor drains throughout the building do not appear to be equipped with automatic trap primers.
- Kitchen gas supply may not be properly interlocked with the kitchen hoods.
- Cosmetology does not appear to be equipped with a hair interceptor.
- Domestic water piping insulation thickness may not meet current energy code requirements should be inspected and replaced where it has been damaged or does not meet current energy code requirements.
- Laboratory waste piping includes copper, cast iron, and PVC.
- The laboratory acid neutralization system should be evaluated, and may need to be upgraded to a chemical injection type system depending on the chemicals used in the science classrooms.
- Emergency showers are not located on the egress pathway of the lab.
- Hot water runouts to emergency safety stations may exceed the maximum length allowed by code.

## Recommendations

All deficiencies noted above should be investigated, evaluated, and addressed.



Although the storm and sanitary drainage system piping appears to be in good condition, a minimal amount was visible during our visit and being almost 62 years old is nearing the end of its useful life. Therefore extensive investigation should be conducted prior to proposed reuse or modifications if the existing cast iron drainage piping system is intended to last for an extended period of time, as should be expected with a major renovation.

Although it appears to be in fair to good condition, we do not believe that the existing domestic water piping system in the building would last for an extended period of time, as should be expected with a major renovation, and would be prone to failure before the building reached its life expectancy. Due to its' unknown condition and age, any major renovation should consider the replacement of the domestic water piping system in the building.

With the replacement of the water piping in the original building, the hot water piping system should be modified to provide the proper water temperature to the various fixtures, with the hot water serving the kitchen and janitorial sinks, and tempered water serving the remainder of the fixtures. Hot water piping for the lavatories should be re-piped to meet the energy code requirements, and all emergency eye wash and shower stations should be equipped with recirculated tempered water.

The water heater and storage tank appear to be fairly new and in good condition and could remain in service. Consideration should be given to installing an additional hot water storage tank for redundancy and maintenance/repair.

The circulators and mixing valves appear to be in good condition and could remain in service, although the piping should be replaced, rearranged, and equipped with check valves, pressure gauges, and balancing valves.

The natural gas and compressed air piping could remain and be modified as needed.

All gas piping should be investigated and labelled as low pressure or elevated pressure.

The kitchen and culinary arts gas systems should be interlocked with the kitchen hoods, and all emergency shut-off systems should be tested. Where kitchens include equipment with standing pilots, a carbon monoxide detector(s) and control panel should be installed.

In general, the newer plumbing fixtures are in good condition, functional, and could remain in service. However, many fixtures are dated, worn, and in poor condition and should be replaced. Most fixtures may fail to comply with current accessibility and water conservation standards. In addition, the existing water closets and urinals may not function properly with the newer water conserving flush valves. Given the assessed value of the existing building, the respective cost of any proposed building renovation or addition could require replacement of most of the existing fixtures.

The existing laboratory acid neutralization system should be evaluated and modified as required. Depending on the chemicals in use, the system may need to be upgraded to a chemical injection type system. All cast iron, copper, and PVC piping should be replaced with heat-fused polypropylene. All acid waste and the sump discharge piping should be investigated for deterioration.

Substantial renovations would require the existing floor drains, floor sinks, trench drains, and unused showers to be retrofitted with automatic trap primers.

Any work to the building should include an analysis of the current fixture count and plumbing code requirements, and provide the correct type and quantity of plumbing fixtures, including separate restroom facilities for faculty and kitchen staff.

If not replaced, damaged or malfunctioning fixtures or equipment should be repaired.



**Mechanical and Electrical**  
**Existing Conditions Narrative**

**South Shore Vocational Technical High School**  
**Hanover, Massachusetts**

September 21, 2023

Prepared By  
**Consulting Engineering Services, LLC**  
128 Carnegie Row Suite 104 Norwood, MA 02062  
CES Project No. 2023446.00

### **APPLICABLE CODES AND STANDARDS**

The mechanical and electrical systems will be reviewed in conformance with the requirements of the following codes and regulations and all applicable local authority requirements.

1. Massachusetts Building Code
2. International Building Code (IBC)
3. International Existing Building Code (IEBC)
4. International Mechanical Code (IMC)
5. 205 International Energy Conservation Code (IECC)
6. Illuminating Engineering Society Lighting Handbook (IESNA)
7. NFPA 70 - National Electrical Code
8. NFPA 101 – Life Safety Code

### **MECHANICAL SYSTEMS:**

1. The current building hydronic hot water system is served by (3) Camus Dynaforce 3000 condensing, gas fired boilers, which were recently installed in 2016 (see picture M1 and M2). These boilers are rated at 3,000 MBH with a 15:1 turn down ratio. Each condensing boiler is provided with a dedicated in-line pump that ensures minimum flow through the boiler at all times. The pumps are model Flo Fab 880 and appear to be in good working condition. The boilers are served by natural gas and are vented separately through the roof. The new boiler plant appears to be in good condition.
2. Hot water is distributed throughout the building via (2) Thrush 15 HP hot water pumps (see picture M4). These pumps are floor mounted and seem to be in good condition. The pumps were previously constant flow pumps and not equipped with VFD's. However, at the time of our site visit (Summer 2023) VFD's were being added. Hot water is distributed throughout the building via piping above the ceilings. The hot water piping serves terminal units such as perimeter radiation, unit ventilators, cabinet unit heaters, unit heaters and fan coil units. The piping serving the terminal units is original to the building and is in poor to fair condition. Many cabinet unit heaters, fin tube radiation and unit ventilators are original to the building and are currently operating past their useful life expectancy (Refer to picture M5, M6, M7 & M19).
3. The ventilation for the 1962 building consists of exhaust fans, unit ventilators/ fan coil units (wall or ceiling hung) (see picture M8), and operable windows. Some classrooms also have paddle fans to help with "cooling" during the warmer months (see to picture M10). All of the exhaust fans and unit ventilators are in poor to fair condition and should be replaced.
4. The ventilation for the 1992 building addition consists of ceiling suspended fan coil units ducted to the exterior providing OA to the space (see picture M11). Units are equipped with hot water coils for heating, and no cooling. For areas such as the restaurant, classroom/ lecture and cosmetology, the spaces are served by a dedicated gas fired rooftop unit with on-board DX cooling that provides ventilation, heating and cooling to the spaces (see picture M12). These units were replaced recently and are in good condition. The auto body shop and culinary arts classrooms are also served by dedicated gas fired rooftop units, except these units are heating only. The units seem to be in fair condition.
5. Dedicated cooling units have been added overtime and were noticed in multiple areas throughout the buildings. Window AC units and single split VRF units. VRF units were observed in the nurse's office and in Graphics Art. These units are in good condition (Refer to picture M13 & M14).

6. Gymnasium: The gym is served by (2) 5,500 CFM heating and ventilating units, which are suspended from the structure (see picture M15). The fan coil units are ducted to the outdoors and provide ventilation to the space as well as heating through hot water coils which are provided inside the unit. The units are original to the building and are in fair condition. Two paddle type ceiling fans are provided in the space to assist with air stratification in the space and cooling during the summer months. The fans are provided with cages that appear to have been damaged over the years.
7. Kitchen Area: The existing kitchen was upgraded in 1992 with a 2,800 CFM dedicated outdoor air unit which provides make-up air for the space. The make-up air unit (RTU-3) is a gas fired unit with no cooling capability. The kitchen and dishwasher exhaust fans were also upgraded in 1992 (see picture M16). The fans are roof mounted up-blast type fans. Fans and make up air unit seem to be in fair condition and are approaching their life expectancy.
8. Woodworking: The space is served by a dedicated fan coil unit that is ducted to the outside for ventilation air. Heating is provided to the space via a hot water coil located inside the fan coil unit. Ceiling suspended air filtration system (air scrubbers) (see picture M9) are provided in the space to reduce the amount of dust and debris that have been introduced to the air via the wood working equipment. The wood working equipment is hard ducted and exhausted to an outdoor dust collector (see picture M17). The dust collector appears to be in good condition.
9. Auto body/ Auto repair shop: Both areas contain an arrangement of hydraulic lifts, dedicated exhaust fans, paint booths and car exhaust systems. All systems appear to be in fair condition and operating correctly.
10. The existing temperature control system in the building is pneumatic, including valves and thermostats. There is a central air compressor with air dryer located in the boiler room. The air compressor is in fair to poor condition and is past its useful life. Recently added equipment such as the boilers and water heaters are provided with their own on-board controls. The school is currently not using a building wide BMS system, although a small Alerton system was installed in 2012.

### **ELECTRICAL SYSTEMS:**

1. The original building's electrical service is 208/120V, 3-phase, 4-wire, rated for 3,000 amperes. The service entrance switchboard is manufactured by General Electric, and consists of a main circuit breaker, utility metering cabinet, and multiple fused distribution switches. The switchboard is from the original building construction and is past its useful life, with replacement parts not readily available. (See Picture E1)
2. The 1990s addition has a second electrical service: 208/120V, 3-phase, 4-wire, rated for 1,600 amperes. The service entrance switchboard is manufactured by General Electric, and consists of a main circuit breaker, utility metering cabinet, and distribution circuit breakers. This equipment is in good operating condition, but is nearing the end of its useful life. (See Picture E2)
3. The capacity of the electrical service in total is sufficient for the current building use. However, if the building were to be provided with full air conditioning systems, a service upgrade will be required and new service equipment rated for 480V operation will need to be installed.
4. The electrical power is distributed through the building by circuit breaker type panelboards, grounded type duplex receptacles with GFCI type receptacles located in toilet rooms, kitchens, etc. This equipment ranges from poor condition (those panels original to the building, past useful life) to fair condition for those panels added during the last renovation/addition. (See Pictures E3 and E4)



5. The original building contains a 60kw, natural gas-fueled generator manufactured by Cummins, located inside the building adjacent to the boiler room. This generator was installed in 2003 and is in good working condition. This generator provides backup power to unit ventilators, freeze protection, emergency lighting and some refrigeration loads. Technology equipment and the walk-in freezers in the cafeteria are not on generator backup power. (See Picture E5)
6. The 1990s addition contains a 100kw, natural gas-fueled generator manufactured by Kohler, located outside adjacent to the utility transformer. This generator was installed in 2021 and is good working condition. This generator provides backup power to unit ventilators, freeze protection, emergency lighting and the culinary arts kitchen refrigeration loads. (See Picture E6)
7. The lighting throughout the facility consists of original fluorescent fixtures installed in the 1990s addition, and LED replacement bulbs installed in the original 1960s building. Lighting controls consist of line voltage switches and auto-on/auto-off occupancy sensors. Fixtures are generally not dimmable. Some fixtures and replacement bulbs have been damaged. (See Picture E7)
8. The emergency lighting throughout the original building is recessed downlights, within the building addition emergency power is wired to the ceiling mounted light fixture, such that approximately every fourth corridor light fixture is on emergency power. The staff have noted that there are issues with the emergency lighting properly illuminating upon generator operation. A test of this equipment should be done to assure proper emergency lighting is provided.
9. The site lighting consists of wall mounted fixtures, wall mounted flood light fixtures and pole mounted light fixtures. The fixtures are in fair condition. A nighttime survey was not provided to determine proper lighting levels.
10. The fire alarm system consists of an EST zoned fire alarm control panel (20 active zones), remote graphic annunciator, manual fire alarm pull stations, horn strobe devices, smoke detectors, and duct smoke detectors. The fire alarm control panel is in fair condition. The majority of the manual fire alarm pull stations are not ADA compliant (mounted too high above floor level). The horn strobe units do not have voice evacuation capability, as required by current building codes. (See Pictures E8 and E9)
11. Technology equipment and data racks are not located in dedicated rooms. These racks are located in storage areas where working clearances are not sufficient. In some rooms, piping has been run over equipment without leak protection. Technology equipment is not on generator power and racks do not contain uninterruptible power supplies. (See Picture E10)
12. Data cabling throughout the facility is Category 6 rated and is generally in good condition. Cable distribution appears to be adequate and cabling is protected above suspended ceilings.
13. The building contains a Pyramid public address system, which is original to the building. This system is past its useful life and in need of replacement. The public address system integrates with hardwired (24V) American Time clocks, which are mixed in age throughout the building. Some clocks are original to the building and not operational. (See Picture E11)
14. The building contains an Exacqvision video management system, with a variety of IP-based surveillance cameras of different manufacture and different ages. Most cameras are between 10 and 20 years old. These are in fair condition, but there are areas around the building perimeter that lack coverage. (See Picture E12)

### **Mechanical and Electrical Systems Recommendations:**

1. Overall the condition of the Mechanical and Electrical systems are fair to poor. The systems seem to be operating without many problems, but many of the systems are aged and beyond their useful life expectancy.
2. Upgrade the HVAC control system to a new direct digital control (DDC) system with energy management capability. Recommended for energy efficiency and savings. This would require removal of all of the pneumatic equipment and piping and replace with new electronic valves, wiring, and control panels.
3. Remove and replace the existing unit ventilators, cabinet heaters and finned tube radiation. This equipment is beyond its expected service life and should be replaced with modern energy efficient systems that meet current code requirements, ventilation requirements and energy efficiency standards.
4. Replace the original buildings existing electrical infrastructure. The existing equipment is beyond its expected service life and should be replaced. Parts for the existing electrical panels are no longer readily available. This would include an evaluation of the electrical needs of the school, including the addition of air conditioning and a new electrical service be provided with branch circuit panelboards and feeders to replace the existing.
5. Considerations should be given to replace the existing zoned fire alarm system to an addressable type system. In addition add fire alarm system devices to comply with latest code requirements. This would require the addition of additional power supplies, electrical branch circuit wiring, fire alarm devices and programming. Voice evacuation systems should be provided throughout the building.
6. Upgrade the interior lighting with new fixtures using LED technology.
7. Upgrade lighting controls throughout the building to meet the latest energy code requirements. Also recommended for energy savings and lower maintenance cost.
8. Provide separate, dedicated telecommunications equipment rooms for all areas of the building. These rooms should be clear of piping and provide adequate working clearances for all cabling. This will involve a complete data cabling replacement.
9. Provide additional security system components, such as cameras to provide full building coverage.

## Mechanical Pictures



M1 - (3) Camus boilers installed in 2016



M2 - Ceiling hung expansion tanks



M3 – Location of previously installed oil boiler.  
The oil boiler and tank have since been removed.



M4 - Hydronic base mounted hot water pumps.



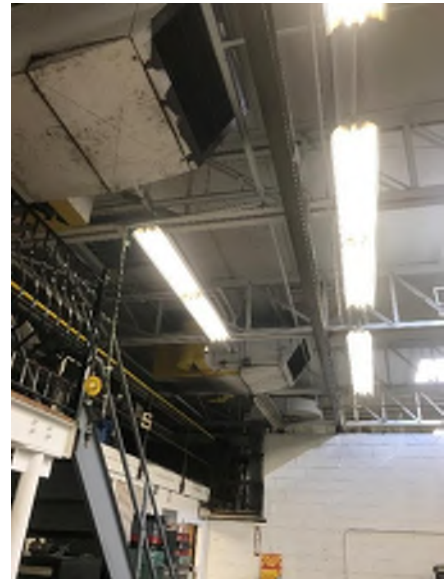
M5: Typical hydronic cabinet unit heater



M6 - Typical hydronic radiation



M7 – Typical Unit Ventilator

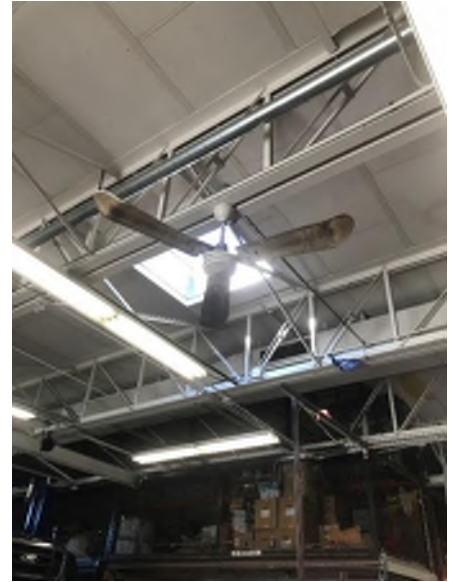


M8 - Typical ceiling suspended fan coil unit





M9 - Air scrubber installed in woodworking room



M10 - Typical paddle fan throughout some shops



M11 - Typical ducted fan coil unit.



M12 - Typical packaged roof top unit with on board DX cooling





M13 - Outdoor condensing unit for indoor VRF wall mounted split unit



M14 – A/C split units installed in classroom.



M15 - Typical ceiling suspended fan coil unit. Two units serve gymnasium



M16 - Kitchen exhaust fan



M17 - Dust collector on exterior of building



M19 - Ceiling suspended unit heaters

## Electrical Pictures



E1 – Original Building electrical service switchboard



E2 – 1990s addition electrical service switchboard



E3 – Branch circuit panelboard from original building construction



E4 – Branch circuit panelboards in vocational shop area from 1990s renovation





E5 – Cummins 60kw natural gas generator serving original building



E6 – Kohler 100kw natural gas generator serving 1990s addition



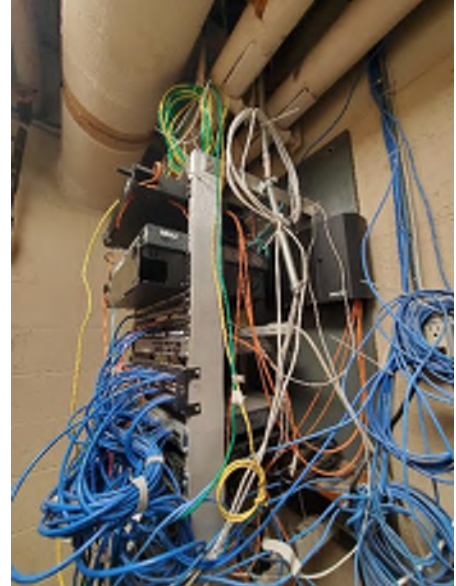
E7 – Typical LED replacement bulbs in fixtures within the original building



E8 – Edwards fire alarm control panel



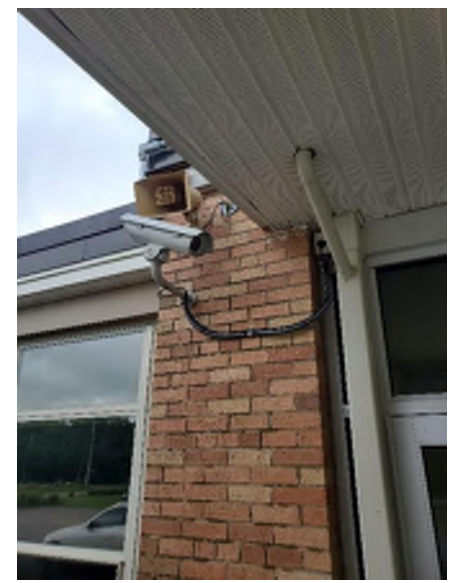
E9 – Typical fire alarm horn strobe



E10 – Technology equipment closet without adequate working clearances and piping above equipment.



E11 – Pyramid public address system



E12 – Typical video surveillance camera







**South Shore Regional School District**



**South Shore Regional Vocational Technical High School**

476 Webster Street

Hanover, MA 02339

**Telecommunications, Security, and Audiovisual**

**Existing Conditions Assessment**

August 24, 2023

**TABLE OF CONTENTS**

**PART 1 - TELECOMMUNICATIONS**..... 2

**PART 2 - SECURITY**..... 8

**PART 3 - AUDIOVISUAL**..... 11



## PART 1 - TELECOMMUNICATIONS

### 1.1 Existing Conditions

#### A. Internet Service

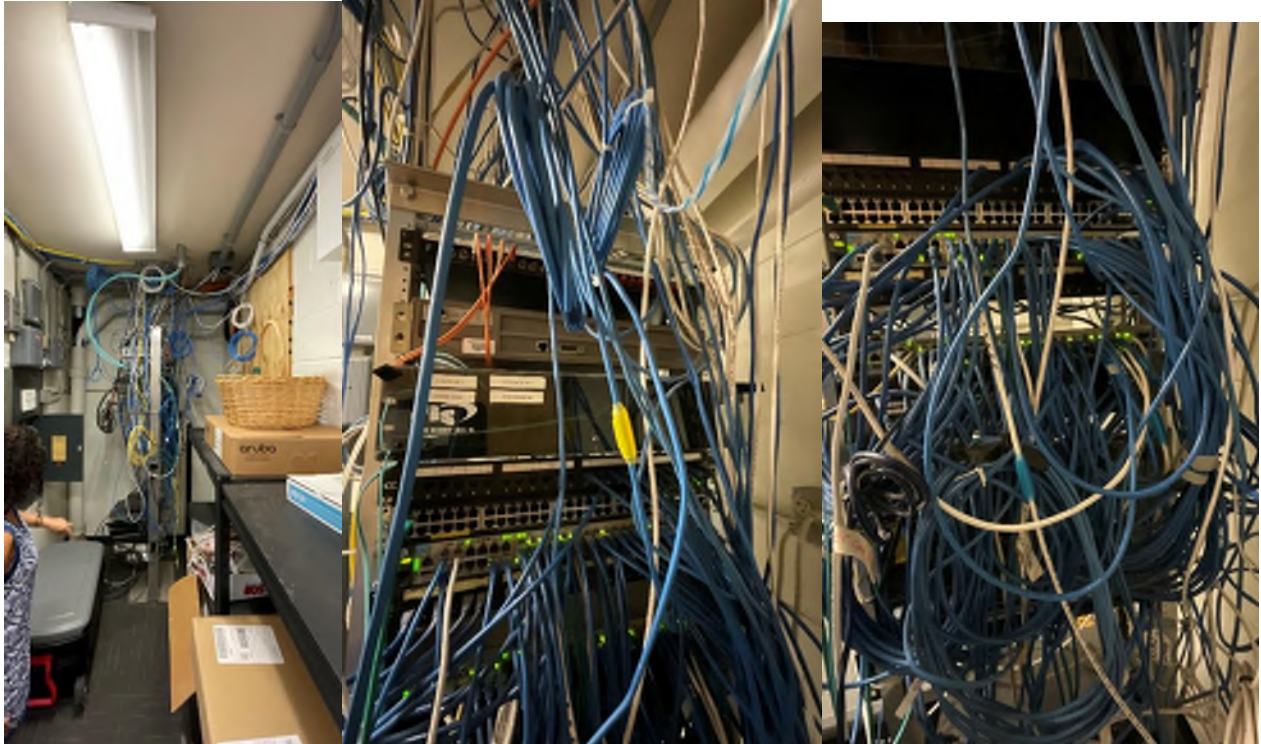
1. South Shore Vocational Technical High School (SSVT) is connected to the Comcast Business via an underground fiber cable which is demarc'd/terminated in the original A.V. Storage 127.

#### B. Network Cabling Infrastructure

1. Backbone cabling consist of copper and fiber (OM2 and OM3) between closets, and buildings on campus (athletics, maintenance, etc)
2. Network cabling is a mix of category 5, 5e, and 6 depending on the time of renovation or addition.
  - a. Existing obsolete cabling has been left abandoned over time.
  - b. Category 6A is what standards recommend in new commercial buildings.
3. Cabling is terminated in one of four (4) IT racks within the building.

#### C. IT Rooms

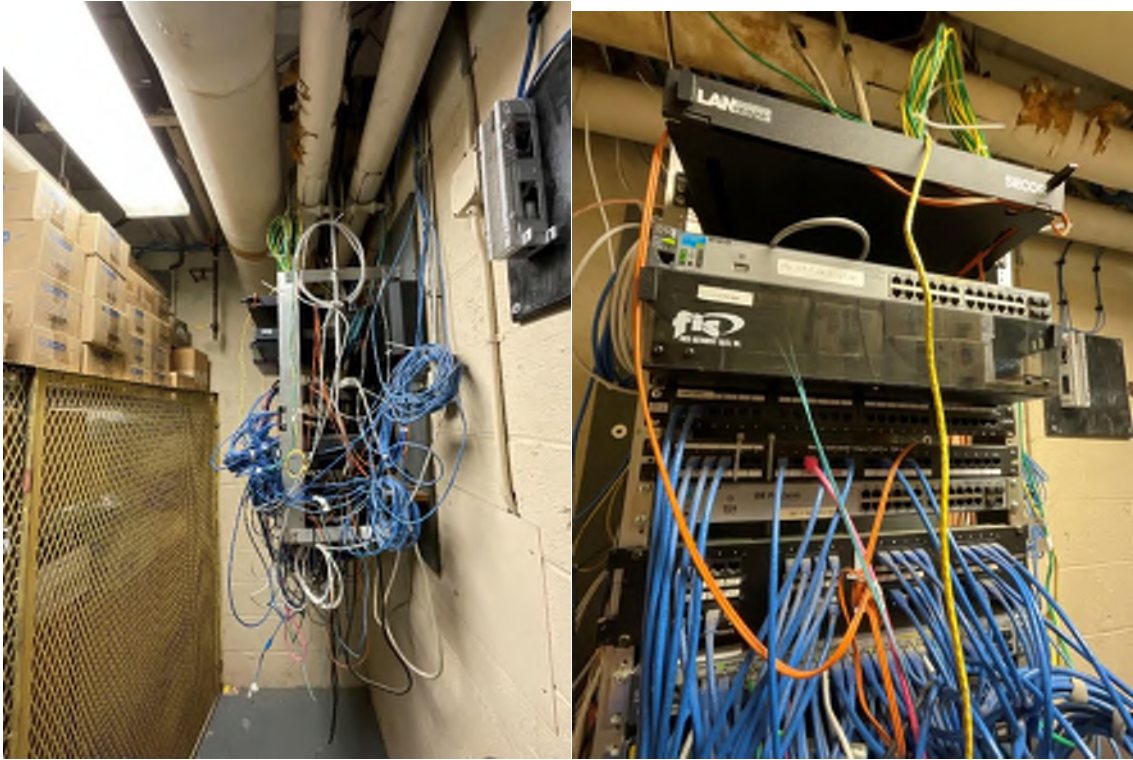
1. Main IT Room (Original A.V. Storage 127)
  - a. Houses the ISP service demarc, security access control equipment, IT equipment, and cabling terminations for 1/4<sup>th</sup> of the building.
  - b. The room is lacking the following:
    - Security. The door hardware consist of a standard lock and key, but is left open due to lack of climate control within the space. The space is right off the main entrance which lets visitors see and gain access to the schools security and network systems.
    - No climate conditioning of the space, which drastically degrades the life expectancy of critical network and security equipment.
    - No required 3'0" front and rear clearance of electronic equipment.
    - No cable tray, supports, or management.



**Main IT Rack – Original A.V. Storage 127 (Currently IT Demarc Room)**

2. IT Room – Cafeteria Storage Cage
  - a. IT equipment, and cabling terminations for 1/4<sup>th</sup> of the building.
  - b. The room is lacking the following:
    - Dedicated climate conditioning of the space, which drastically degrades the life expectancy of critical network and security equipment.
    - No required 3’0” front and rear clearance of electronic equipment.
    - No cable tray, supports, or management.





**IT Rack – Cafeteria Storage Cage**

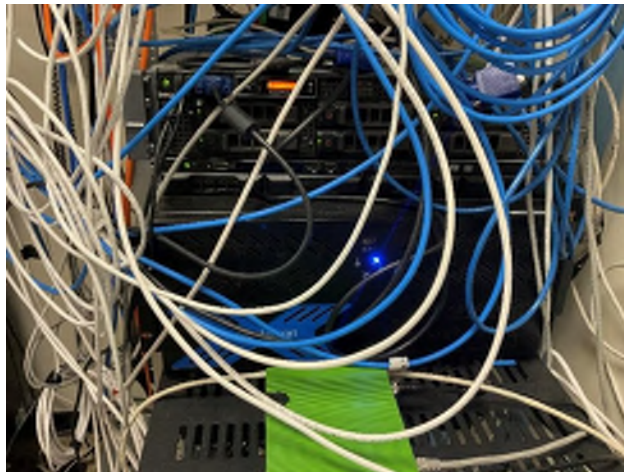
Seekonk, MA 02771 | 401.749.6909 | [KDuquette@ComDesignServices.com](mailto:KDuquette@ComDesignServices.com)

RI Minority Business Enterprise #2335



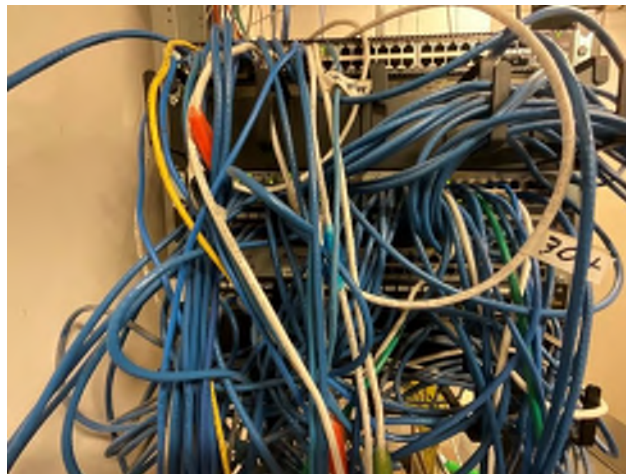
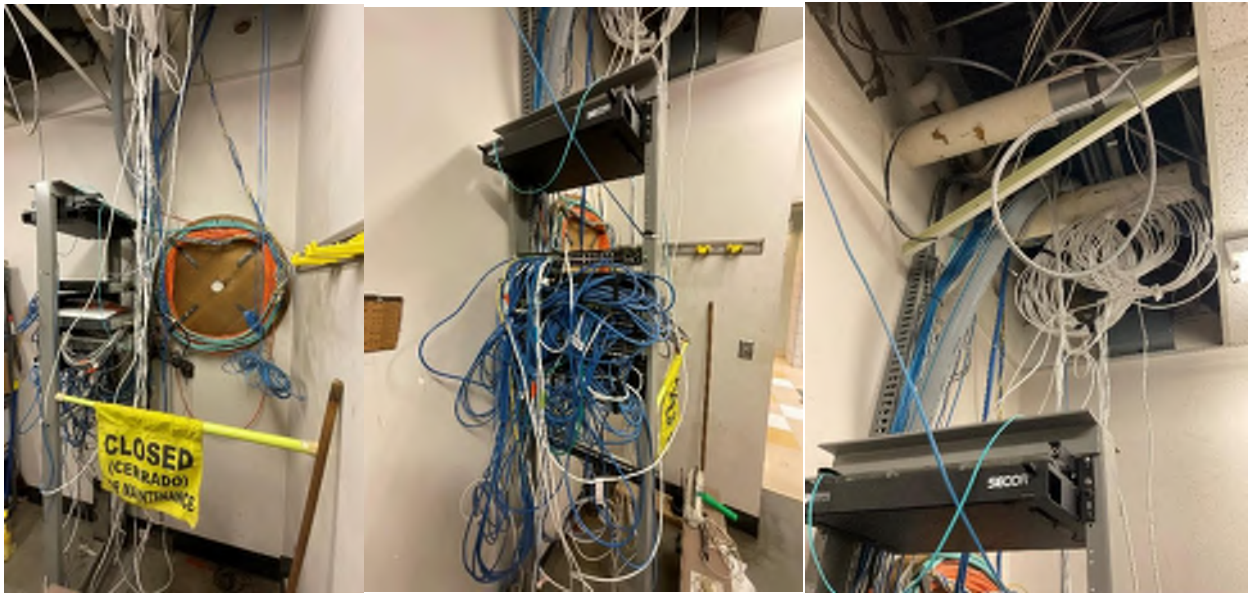
3. IT Office Equipment Room

- a. Houses the security video server, HVAC controls controller, and misc school servers.
- b. IT equipment, and cabling terminations for 1/4<sup>th</sup> of the building.
- c. The room is lacking the following:
  - Dedicated climate conditioning of the space, which drastically degrades the life expectancy of critical network and security equipment.
  - No required 3'0" front and rear clearance of electronic equipment.
  - No cable tray, supports, or management.



**IT Office Equipment Racks**

4. IT Room Addition
  - a. IT equipment, and cabling terminations for 1/4<sup>th</sup> of the building.
  - b. The room is lacking the following:
    - Dedicated climate conditioning of the space, which drastically degrades the life expectancy of critical network and security equipment.
    - No required 3'0" front and rear clearance of electronic equipment.
    - No cable tray, supports, or management.



**IT Room Addition Racks**

**D. Network Equipment**

1. Network switches were recently replaced in 2022 with HP ProCurve 2920-48G POE+ units purchased through the E-rate program.



**Network Switch Mounted in Main IT Rack**

2. Sonic Wall Firewall.
3. WAP (wireless access points) are generally located in each classroom/learning space and have been updated in the last 5 years utilizing the E-rate program.

## 1.2 Outline of Codes/Guidelines Used

- A. Building Industry Consulting Service International (BICSI) – Telecommunications Distribution Methods Manual (TDMM), 14<sup>th</sup> Edition.
- B. Telecommunications Industry Association (TIA)
- C. International Code Council (ICC)
- D. National Fire Protection Association (NFPA) 70 - National Electric Code (NEC), 2023 edition as adopted by the State of Massachusetts.
- E. National Electrical Manufacturers Association (NEMA)



## PART 2 - SECURITY

### 2.1 Existing Conditions

#### A. Video Surveillance

1. The existing building cameras are cabled to the IT Office Equipment room and connected to the buildings ExacqVision server. Cameras are powered by wall mounted power supplies.



**Rack-mounted ExacqVision Server**

2. Cameras are a mix of IP and analog, with staff indicating that older cameras are end of life, which means they are no longer supported or able to receive updates, leaving the device as a network security threat.
3. A total of 16 cameras are located on the exterior of the building, including two on the maintenance barn. Exterior cameras are generally placed at all exterior doors and gathering areas (eating and class areas). Coverage of the building perimeter and/or exterior doors is unavailable with current cameras.



**Typical Exterior Cameras**

4. A total of 21 interior cameras are limited to corridor areas utilizing ceiling-mounted dome cameras. Coverage of the exterior door entrances and other points of entry is unavailable with the current cameras/layout.



**Typical interior camera**

5. Main entry IP video intercom unit. Connected to the main office. Unknown if the device is connected to the video surveillance server for recording.



**Main Entry Intercom**



B. Access Control

1. Existing building access control doors are connected to the building's KeyScan access control system located in the main IT room.



**Main Access Control Panel – Main IT Room**

2. Access control doors are limited to the main entry door and a few exterior egress doors.
3. No classrooms or learning spaces doors have access control or electrified locks.
4. SSTC utilizes Raptor Technologies visitor management system for schools.
5. Safety issues include public access to the school via the public culinary restaurant entrance and corridor.

## 2.2 Outline of Codes/Guidelines Used

- A. Building Industry Consulting Service International (BICSI) – Telecommunications Distribution Methods Manual (TDMM), 14<sup>th</sup> Edition.
- B. Telecommunications Industry Association (TIA)
- C. International Code Council (ICC)
- D. National Fire Protection Association (NFPA) 70 - National Electric Code (NEC), 2023 edition as adopted by the State of Massachusetts.
- E. National Electrical Manufacturers Association (NEMA)

## PART 3 - AUDIOVISUAL

### 3.1 Existing Conditions

#### A. Paging System

1. The paging system is an analog 70V system. The main control center is located in the main office and is utilized for all call paging throughout the building, as well as .
2. Wall-mounted speakers are located in each classroom and are original to the building/addition space they reside in.



**Typical Paging System Speakers**

#### B. Clock System

1. The existing clock system head controller is located in the main office.
2. Wall-mounted clocks are located in each classroom.



**Typical Classroom Speaker**

C. Classroom Audiovisual Systems

1. Display

- a. ClearTouch branding interactive displays are the main display in each classroom.



**Typical Classroom Interactive Display**

D. Cafeteria AV Systems

1. One (1) free-standing enclosure with café AV equipment located in the cafeteria with cabling exposed to above ceiling. Wall-mounted audio inputs.
2. Wall-Mounted displays throughout.



**Cafeteria AV Systems**

3.2 Outline of Codes/Guidelines Used

- A. Building Industry Consulting Service International (BICSI) – Telecommunications Distribution Methods Manual (TDMM), 14<sup>th</sup> Edition.
- B. ANSI/BICSI 007 Standard for Intelligent Buildings.



- C. Telecommunications Industry Association (TIA)
- D. International Code Council (ICC)
- E. National Fire Protection Association (NFPA) 70 - National Electric Code (NEC), 2023 edition as adopted by the State of Massachusetts.

## **End of Report**







**Visual Hazardous Materials Survey  
South Shore Regional Vocational Technical High School  
476 Webster Street  
Hanover Massachusetts**

Prepared For:

Drummey Rosane Anderson, Inc.  
Howard Clock Building  
260 Charles Street, Studio 300  
Waltham, MA 02453

Prepared by:

CDW Consultants, Inc.  
4 California Drive, Suite 301  
Framingham, Massachusetts

## TABLE OF CONTENTS

	Page
1.0 INTRODUCTION.....	1
2.0 PROJECT UNDERSTANDING.....	1
3.0 GENERAL SITE CONDITIONS .....	1
4.0 VISUAL ASBESTOS SURVEY .....	2
4.1 Report Review .....	2
4.2 Methods .....	5
4.3 Findings .....	5
4.4 Recommendations .....	8
5.0 LEAD-BASED PAINT .....	8
5.1 Methods .....	8
5.2 Findings .....	8
6.0 HAZARDOUS MATERIALS SURVEY .....	9
6.1 Methods .....	9
6.2 Findings .....	9
6.3 Recommendations .....	11



## 1.0 INTRODUCTION

CDW Consultants, Inc. (CDW) is pleased to present this preliminary hazardous materials summary report summarizing the findings of the presumed suspect asbestos-containing materials (ACM) and hazardous materials inspection of the South Shore Regional Vocational Technical High School, located at 476 Webster Street in Hanover Massachusetts (the Site). In September 2023, CDW staff conducted visual inspections for suspect ACM and other hazardous materials.

## 2.0 PROJECT UNDERSTANDING

The intent of the preliminary survey was conducted in support of a Feasibility Study for the Site. The hazardous building material survey was conducted to identify suspect asbestos containing materials, lead based paint, visible hazardous materials including mercury switches, transformers, light ballasts, fluorescent tubes, underground storage tanks (USTs), above ground storage tanks (ASTs), hydraulic fluids (elevators, lifts) and other visible hazardous materials connected to building systems.

## 3.0 GENERAL SITE CONDITIONS

The Site building is a 130,000 square foot (SF) single story building. Over time additions were added, listed below.

Original Building (1962): 76,150 SF  
1978 Addition: 6,250 SF  
1992 Addition: 38,600 SF  
2000 Modular Building: 1,650 SF  
2017 Maintenance Building: 2,950 SF  
2017 Concessions Building: 650 SF  
Barn: 3,100 SF  
Weight Room: 650 SF

The original building is brick face with CMU back-up. The windows and roof of the original building were replaced 5 years ago. The windows are double pane thermally efficient windows, and the roof is a white PVC roof. The 1978 addition appears similar to the original building. The columns and the exterior walls are supported on reinforced concrete foundations. The first floor is concrete slab-on-grade.

The 1992 addition is brick face with metal stud back-up with acoustical insulation. The windows and roof are original to the 1992 addition. The windows are aluminum frame type, double pane insulated windows. The roof is a black EPDM.

The 1962 building has a pneumatic controlled HVAC system. The 1992 addition has a separate electrically controlled system. All rooftop units are gas fired and controlled by Honeywell TH8000



series programmable thermostats. The science wing had a new roof top unit installed during the 2011 roof and window renovation. The school is equipped with a 1990 Weil McLain dual fire burner/boiler and three 2016 Camco 3,000 MBH gas-fired high efficiency condensing boilers. The 1962 H.B. Smith boiler was replaced in early 2016.

The 1962 building has terrazzo hallway floors with polished brick walls and plastered ceilings with "popcorn" finish. The classrooms and offices in this area are split with carpet, vinyl composition tile (VCT) and asbestos floor tiles. In 2019-2020 the asbestos tiles were covered with new VCT tiles. The hallway and classroom floors in the 1978 addition are VCT and walls are painted cinder block. This addition has become a science wing. The 1992 addition flooring is split between VCT and concrete floors. The hallway walls are tiled, and the shops and related room walls are sheet rock. In 2018 the flooring was replaced in the library, main office and student services office with luxury vinyl tile (LVT). The Automotive shop has remained the same since it was built in 1962.

The lobby entrance contains brick and CMU walls. The vocational shops have concrete floors and painted and glazed CMU walls. The ceilings in the shops are exposed roof deck. Academic classrooms are gypsum wallboard or plaster with plaster ceilings. Science classrooms contain 12"x12" VCT flooring that was recently replaced and 2'x4' suspended ceiling tiles. There is some wood paneling on some of the walls. Science classrooms walls are painted CMU block. The gym walls are glazed and painted CMU with a wood floor. The locker rooms are glazed and painted CMU block with concrete floors. Walls at the entrance to the cafeteria are brick and some gypsum wallboard. The cafeteria floor contains 12" x 12" VCT floor that was replaced during the 1990's addition. The ceiling in the cafeteria is a plaster ceiling with some 1'x1' panels adhered to the plaster ceiling. The Kitchen walls are glazed CMU, the floor is quarry tile and the ceiling in the kitchen has washable 2'x2' suspended ceiling tiles.

## **4.0 VISUAL ASBESTOS SURVEY**

### **4.1 Report Review**

The Vertex Companies, Inc. (VERTEX) conducted a 3-Year Re-inspection on April 18, 2017 as required by the 40 CFR 763 Asbestos Hazard Emergency Response Act (AHERA) at the South Shore Regional Vocational Technical High School located at 476 Webster Street in Hanover, Massachusetts. CDW reviewed the Three Year AHERA Re-Inspection Report, prepared by Vertex Environmental in April 2017. The results are provided in the below tables.



APRIL 2017			
Sample Number	Sample Description	Sample Location	Asbestos Content
B-0421-1A	2' x 4' Ceiling Tile (Speckled/Dot)	Guidance Office	None Detected
B-0421-1B	2' x 4' Ceiling Tile (Speckled/Dot)	Girls Locker Room	None Detected
B-0421-2A	2' x 2' Ceiling Tile (Rough/Dot)	Gym Office	None Detected
B-0421-2B	2' x 2' Ceiling Tile (Rough/Dot)	Girls Locker Room	None Detected
B-0421-3A	2' x 4' Ceiling Tile (Rough/Dot)	Room 203	None Detected
B-0421-3B	2' x 4' Ceiling Tile (Rough/Dot)	Room 205	None Detected
B-0421-4A	2' x 4' Ceiling Tile (Fissure/Dot)	Room 206	None Detected
B-0421-4B	2' x 4' Ceiling Tile (Fissure/Dot)	Room 207	None Detected
B-0421-5A	2' x 2' Ceiling Tile (Speckled/Dot)	Blue Room	None Detected
B-0421-5B	2' x 2' Ceiling Tile (Speckled/Dot)	Blue Room	None Detected
<b>B-0421-6A</b>	<b>Wood Floor Black Mastic</b>	<b>Room 112</b>	<b>2 % Chrysotile</b>
<b>B-0421-6B</b>	<b>Wood Floor Black Mastic</b>	<b>Room 112</b>	<b>Positive Stop</b>
B-0421-7A	Wood Floor Cloth Paper	Room 112	None Detected
B-0421-7B	Wood Floor Cloth Paper	Room 112	None Detected

JULY 2016			
Sample Number	Sample Description	Sample Location	Asbestos Content
<b>B-722-01A</b>	<b>Pipe Fitting Insulation</b>	<b>Boys Locker Room</b>	<b>25 % Amosite 10% Chrysotile</b>
<b>B-722-01B</b>	<b>Pipe Fitting Insulation</b>	<b>Boys Locker Room</b>	<b>Positive Stop</b>
<b>B-722-01C</b>	<b>Pipe Fitting Insulation</b>	<b>Boys Locker Room</b>	<b>Positive Stop</b>





<b>OCTOBER 2016</b>			
<b>Sample Number</b>	<b>Sample Description</b>	<b>Sample Location</b>	<b>Asbestos Content</b>
B-1002-01A	Boiler Insulation Wrap	Boiler Room	None Detected
B-1002-01B	Boiler Insulation Wrap	Boiler Room	None Detected
B-1002-01C	Boiler Insulation Wrap	Boiler Room	None Detected
B-1002-02A	Fire Brick	Boiler Room	None Detected
B-1002-02B	Fire Brick	Boiler Room	None Detected
B-1002-03A	12" x 12" Wall Tile; Dotted	Hallway	None Detected
B-1002-03B	12" x 12" Wall Tile; Dotted	Hallway	None Detected
B-1002-04A	Plaster Skim Coat	Room 113	None Detected
B-1002-04B	Plaster Skim Coat	Room 126- Automotive	None Detected
B-1002-04C	Plaster Skim Coat	Library	None Detected
B-1002-04D	Plaster Skim Coat	Guidance Office	None Detected
B-1002-04E	Plaster Skim Coat	Electrical Room	Not Analyzed
B-1002-04F	Plaster Skim Coat	Boiler Room	Not Analyzed
B-1002-04G	Plaster Skim Coat	Hallway	None Detected
B-1002-05A	Plaster Base Coat	Room 113	None Detected
B-1002-05B	Plaster Base Coat	Room 126- Automotive	None Detected
B-1002-05C	Plaster Base Coat	Library	None Detected
B-1002-05D	Plaster Base Coat	Guidance Office	None Detected
<b><i>B-1002-05E</i></b>	<b><i>Plaster Base Coat</i></b>	<b><i>Electrical Room</i></b>	<b><i>Trace &lt;1% Chrysotile</i></b>
<b><i>B-1002-05F</i></b>	<b><i>Plaster Base Coat</i></b>	<b><i>Boiler Room</i></b>	<b><i>Trace &lt;1% Chrysotile</i></b>
B-1002-05G	Plaster Base Coat	Hallway	None Detected



NOVEMBER 2016			
Sample Number	Sample Description	Sample Location	Asbestos Content
B-1103-01A	2' x 4' Ceiling Tile	Room 118	None Detected
B-1103-01B	2' x 4' Ceiling Tile	Room 118	None Detected
<b>B-1103-02A</b>	<b>Room Drain Insulation Material</b>	<b>Room 112</b>	<b>35 % Chrysotile</b>
<b>B-1103-02B</b>	<b>Room Drain Insulation Material</b>	<b>Room 110</b>	<b>Positive Stop</b>
<b>B-1103-02C</b>	<b>Room Drain Insulation Material</b>	<b>Room 110</b>	<b>Positive Stop</b>

#### 4.2 Methods

The investigative work for the asbestos survey included conducting a visual inspection of physically accessible areas of the structure, reviewing the AHERA Report and communicating with the facilities director. Once the inspection was completed, the building components were categorized into homogeneous areas. A homogenous area is an area that is similar in color, texture and date of application. These homogeneous areas included: surfacing materials, thermal system insulation, and miscellaneous materials. CDW did not collect any samples for laboratory analysis.

#### 4.2 Findings

A list of CDW's visual inspection of suspect ACM, quantities, and estimated costs to abate are provided in the below table. Though some of the items listed below are likely not ACM containing, they are assumed ACM until samples are collected for laboratory analysis to determine otherwise.

Material	Location	Quantity	Unit Price	Total Price
12"x12" Floor Tile and Mastic, Various Colors	Gym Hall, Storage, Office. Teachers Room, Cafeteria, Rooms 206, 206A, 207, 205, 201, 202, 203, 204, 124, IT, 122, 116, 115, 113, 111, 109, 105	12,900 SF	\$5	\$64,500
9"x9" Floor Tile and Mastic, various colors	Rooms 101, 103, 104, 109, 111, 113, 115, 116, 117, 119, 124, 126, Nurse's Office, Ball	10,500 SF	\$5	\$52,500



Material	Location	Quantity	Unit Price	Total Price
	Storage Room, Boy's Locker Room, Encapsulated in Other Areas			
Glue Daubs on 12"x12" Pin Dot Wall Tiles	Rooms 103, 104, 105, 109, 113, 115, 116, 117, 124, Nurse's Office, Library, Guidance, Cafeteria, main hall Near Lobby	7,550 SF	\$8	\$60,400
Slate Boards, White Boards and Tack Boards with Glue Daubs	Classrooms, Some Halls and Offices	190 Each	\$150	\$28,500
Beadboard Glue	Located in 10 Classrooms	800 SF	\$12	\$9,600
Wood Floor Adhesive	Room 110 and 112	6,300 SF	\$8	\$50,400
Ceiling Plaster	Boiler Room, Generator Room and Electrical Room	2,500 SF	\$12	\$30,000
Vinyl Cove Base Glue	1960s and 1970s Wing	4,000 LF	\$8	\$32,000
Gaskets	On Piping at Valves, Connections, Boiler Rooms, Mechanical Rooms, Some Above Ceilings in Corridors, 1960s and 1970s Wing	250 Each	\$100	\$25,000
Pipe Insulation Including Fittings	Boiler Room, Mechanical Rooms, Wet Walls, Above Ceilings	15,000 LF Unknown, based on Similar Sized Areas	\$18	\$270,000
Pipe Insulation Fittings on Fiberglass Insulated Pipe	Boiler Room, Mechanical Rooms, Wet Walls, Above Ceilings, Storage, Janitor Closets	500 Each	\$18	\$9,000
Roof Drain Insulation	Rooms 110, 112, 114-118, 123, 125, Loading Dock	65 Each	\$25	\$1,625



Material	Location	Quantity	Unit Price	Total Price
Flex Connectors	Older HVAC Equipment, Gym, Automotive Shop, Above Fixed Ceilings	25 Each	\$100	\$2,500
Fire Doors	Boiler Room, Electric Rooms, Generator Room, Vault	4 Each	\$300	\$1,200
Mastic Under Wood Gym Floor	Gym	7,500 SF	\$12	\$90,000
Transite Arc Panels in Old Switchgear	Electric Room	Each Switch Contains Approximately 10 Panels 6"x3" (120 Total)	\$5 Per Panel	\$600
Doors with Window Glaze	Classrooms, Offices, Etc. 1960s and 1970s Wing	40 Each	\$175	7,000
Interior Window Glaze	Offices, Admin, Kitchen, Classrooms 1960s and 1970s Wing Ave. 4'x4'	120 Each	\$150	\$18,000
Door Assembly Glaze Including Sidelights	Hallways	12 Each	\$200	\$2,400
Acoustical Pad Glue	Library/Auditorium Combo	20 Each (8'x4)	\$50	\$1,000
Walk In Refrigerator and Freezers (Mastic)	Kitchen and Student Kitchen	4 Each	\$1,200	4,800
Exterior Door Caulk Inc.	Exterior	250 LF	\$14	\$3,500
Control Joints	Exterior	300 LF	\$14	\$4,200
Remnant Window Caulk (Possibly left in Place before Window Replacements	Exterior	5,000 LF	\$14	\$70,000
Remnant Roofing Materials- Patches Etc.	Roofs-All	8,000 SF	\$12	\$96,000



Material	Location	Quantity	Unit Price	Total Price
Waterproofing	Slab Foundation, Basement Under Science	12,500 SF	\$12	\$150,000
Vapor Barrier Behind Brick Facade	1960s and 1970s Wing	12,000 SF	\$12	\$144,000
<b>TOTAL</b>				<b>\$1,228,725</b>

SF=Square Feet  
LF=Linear Foot

#### 4.4 Recommendations

CDW recommends conducting a comprehensive survey to collect samples of all suspect ACM listed above, as well as any other encountered during the asbestos survey. The comprehensive asbestos survey should include limited destructive sampling of the roof, behind exterior façade, investigating behind wet walls and under gym floors. An inspection is required by the United States Environmental Protection Agency (USEPA) Title 40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation and Massachusetts Department of Environmental Protection (MassDEP) Regulation 310 CMR 7.15. These regulations require that buildings be inspected for ACM prior to renovations and demolitions.

#### 5.0 LEAD-BASED PAINT

##### 5.1 Methods

CDW performed a visual inspection of painted surfaces for suspect lead-based paint (LBP). CDW did not collect any samples. According to school officials, there is an ongoing window lead paint abatement project that is occurring in phases.

##### 5.2 Findings

CDW observed peeling paint on exterior windows and doors, on interior plaster ceilings and steel beams. Stair rails also contain suspect LBP. CDW recommends conducting a comprehensive LBP survey consisting of collecting samples for laboratory analysis to determine lead content prior to renovations and demolition.

Renovation or demolition activities that disturb surfaces that contain lead must be conducted in accordance with the OSHA regulation 29 CFR 1926.62 “Lead Exposure in Construction: Interim Final Rule.” This regulation requires that a site-specific health and safety plan be prepared before conducting activities that create airborne lead emissions. In addition to the worker protection





requirements stipulated by OSHA, MassDEP and the USEPA regulate the disposal of wastes that are potentially hazardous. Such wastes may include paint chips and residue generated during abatement or repainting work, or whole components, such as wood windows, doors, and trim that are coated with LBP and that are disposed of as the result of renovation or demolition work.

Estimated costs for full abatement compared to recycle are provided in below table:

Abatement Cost	\$350,000
Recycle-TCLP-T&D Cost	\$180,000

## 6.0 HAZARDOUS MATERIALS SURVEY

### 6.1 Methods

#### OHM Visual Inspection

CDW visually inspected the Site building for universal, special and hazardous wastes associated with building materials. These included but were not limited to the following:

- Mercury-containing devices (fluorescent light tubes, thermostats, gauges, etc.);
- Polychlorinated bi-phenyl (PCB)-containing articles, equipment and devices (light ballasts, electrical switches, etc.);
- Chlorofluorocarbon (CFC)-containing equipment (refrigerants, air conditioners/HVAC equipment, water bubblers, etc.)
- Tritium-containing devices (Exit signs);
- Lead-Acid batteries (emergency lights, etc.); and
- Pressurized-cylinders (fire extinguishers, etc.).

### 6.2 Findings

#### OHM

The visual survey for hazardous materials identified mercury-containing light tubes, electronic ballasts, mercury containing thermostats and switches, lead and tritium batteries, hydraulic fluids, science chemicals, gas cylinders, oils, drums of waste oil, underground fuel tank, transformers, refrigerants, and other hazardous materials. No hazardous materials sampling or analysis was conducted as part of this preliminary survey. A list of OHMs identified are included in the below tables.

A list of estimated costs to dispose of OHM listed in above tables are provided below.



<b>Material Description</b>	<b>Est. Quantity</b>	<b>Units</b>	<b>Unit Cost</b>	<b>Total</b>
Fluorescent Bulbs (Inc. Used in Storage)	3,500	Each	\$2	\$7,000
Electronic Ballasts	2,000	Each	\$35	\$70,000
Exit Signs (Batteries)	60	Each	\$35	\$2,100
Batteries in Generator Room	10	Each	Re-Use	\$0
Older Door Retractors (Oils)	32	Each	\$50	\$1,600
55-Gallon Drums of Used Oils, Filters, Etc. Automotive, Maintenance Shed	20	Each	\$350	\$7,000
Used Paint Cans	50	Each	\$10	\$500
Hydraulic Fluid (Automotive) Subsurface - Unknown	100	Gallons	\$25	\$2,500
Grease Traps	50	Gallons	\$20	\$1,000
Refrigerants from Freezers/Refrigerators in Kitchen and Culinary	250	Gallons	\$35	\$8,750
Refrigerants from HVAC System in Mechanical Room and Chiller in Electrical Room	500	Gallons	\$35	\$17,500
Window Air Conditioner Units (Sporadic)	25	Each	\$35	\$875
Oil Filled Gauges (Boiler Room)	112	Each	\$25	\$2,800
Lead Pack in Galvanized Steel Pipe Connections	50	Each	\$150	\$7,500



Material Description	Est. Quantity	Units	Unit Cost	Total
(Mechanical Room)				
Welding Gases	Unknown	--	Re-Use	\$0
1,000-Gallon Tank to Collect Fertilizers from Greenhouse	1	Each	\$5,000	\$5,000
1,000-Gallon Holding Tank for Automotive Floor Drains	1	Each	\$5,000	\$5,000
2,500-Gallon Holding Tank for Cosmetology School Discharges	1	Each	\$10,000	\$10,000
Acid Neutralization Tank for Science Rooms	2 (15 Gallon)	Each	\$15,000	\$15,000
<b>TOTAL</b>				<b>\$164,125</b>

### 6.3 Recommendations

Prior to removal, light tubes, ballasts, compact florescent bulbs, lead and tritium batteries, switches will require proper handling, removal, transportation and off-site recycling/reclamation. Hydraulic oil from the automotive shop and refrigerants will require handling and disposal in accordance with state and federal regulations. Laboratory chemicals, gas cylinders, and other reusable items should be properly stored, in their original containers, and are recommended for re-use.

#### Limitations

The conclusions are limited to the information available at the time of the field survey and the scope of services, as defined. No subsurface soil or groundwater sampling and analysis was performed. Where access to portions of the Site or to structures on the site was unavailable or limited, CDW renders no opinion as to the presence of hazardous material or the presence of indirect evidence related to hazardous material in that portion of the site or structure. A through, destructive survey cannot occur until the building is vacant. This report cannot be relied upon solely for renovation or demolition. The testing performed forms the basis for conclusions expressed and areas inaccessible for testing limits those conclusions. No other conclusions, interpretations or recommendations are contained or implied in this report other than those expressed. While CDW followed industry standards during the inspection, we do not warrant that all suspect hazardous building materials were identified in or on the buildings and shall not be held liable related to future abatement costs related to hazardous materials that are either not discovered



or not appropriately characterized. This is due in part to inherent problems with every building inspection, such as, but not limited to:

- Seemingly homogeneous materials that are not in fact homogeneous;
- Seemingly representative locations that are not in fact representative;
- Layered materials that are not uniformly present or are isolated;
- Materials that are present and accessible but were not considered to be hazardous,
- Materials that are present in an isolated and limited quantity; and
- Material that is present in locations that are unsafe or otherwise difficult to access.

Client acknowledges that CDW's inspection is limited, and all hazardous materials may only become apparent during future renovation or demolition. During future renovation/demolition work, it is likely that additional hazardous materials or materials suspected of being hazardous will be identified. Such materials should be assumed to be hazardous unless appropriate evaluation or sampling and analysis demonstrate otherwise. No other use of this report is warranted without the written consent of CDW Consultants, Inc.

CDW appreciates the opportunity to provide our services to you on this project.

DRAFT







# SOUTH SHORE Technical High School

## Educational Visioning Workshop Notes and Highlights

The following pages offer a summary of notes taken, and information gathered during the South Shore Technical High School (SST) Educational Visioning Workshops that took place during the months of May – July 2023. If you have questions about the workshops or would like to add comments or ideas to this evolving narrative, please contact David Stephen at [david@newvistadesign.net](mailto:david@newvistadesign.net).

### Table of Contents

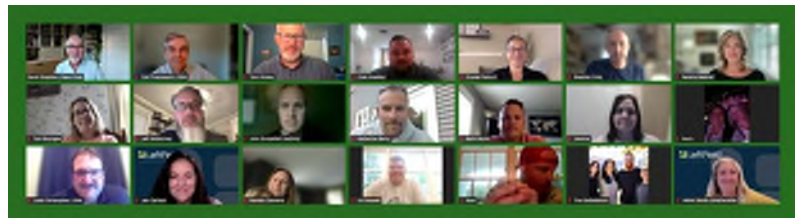
▪ Executive Summary .....	Page 2
▪ Visioning Schedule and Agendas .....	Page 4
▪ Kick-Off Meeting Notes .....	Page 5
▪ Greatest Hopes .....	Page 9
▪ Priorities and Considerations .....	Page 10
▪ Culture of Teaching and Learning within SST .....	Page 12
▪ Future Ready Learning Goals 1.0 .....	Page 16
▪ Reflections on Learning Goals 1.0 .....	Page 17
▪ SCOG Analysis .....	Page 18
▪ Desired Design Patterns 1.0 .....	Page 21
▪ Desired Design Patterns 2.0 .....	Page 23
▪ Personal Favorite Design Patterns 2.0 .....	Page 25
▪ Design Pattern Feedback .....	Page 26
▪ Guiding Principles 1.0 .....	Page 27
▪ Blue Sky Ideas .....	Page 28
▪ Bubble Diagrams .....	Page 29
▪ Workshop Participant List .....	Page 33

# SOUTH SHORE Technical High School

During the months of May – July 2023, the South Shore Tech Visioning Group (EVG) – a group of approximately 20 participants that includes SST leadership, administrators, teachers, parents, and students, participated in three virtual Educational Visioning Workshops run by DRA Architects and New Vista Design. Additionally, a virtual Kick-Off Meeting with SST leadership was held on May 31, 2023, and a virtual Community Forum was held on July 13, 2023. Each workshop was a collaborative session designed to inform the SST Feasibility Study and pre-design process. During the EVG workshops, participants were led through a step-by-step visioning process aimed at capturing their high-level thinking about South Shore Tech’s current and future educational goals and priorities and connecting them to best practices and possibilities in innovative school facility design. The following two-page executive summary offers key workshop findings. A more in-depth recording of participant feedback can be found in the notes that follow.

## Workshop Schedule:

- **May 31, 2023** Leadership Team Kick-Off
- **June 20, 2023** EVG Workshop One
- **July 11, 2023** EVG Workshop Two
- **July 13, 2023** Community Forum
- **July 18, 2023** EVG Workshop Three



## Project Priorities

The following list of educational, architectural, and community priorities for the design of the renovated and/or new School were shared during the Educational Visioning Group and Kick-Off Workshops.

### Educational Priorities

- Student Success
- State of the Art Technical Ed
- Dynamic Learning
- Student Centered Learning
- Differentiated Instruction
- Whole School Connections
- Coherent Career Clusters
- Vocational Academic Integration
- Expanded Chapter 74 Options
- Project-Based/Deeper Learning
- Real World Connections
- Cultivating Community
- Building School Culture
- Expanded Population
- Expanded Programming
- Student Run Businesses
- Seamless Technology

### Architectural Priorities

- Warmth and Welcome
- Innovation
- Health and Safety
- Flexible Spaces
- Sustainability
- Building as Teacher
- Connectivity and Collaboration
- Small Group Rooms
- Community Space
- Good Wayfinding
- Good Connectivity
- More Space
- Student-Run Businesses
- Storefronts w/ Community Access
- Night School Spaces
- Display and Exhibition
- Outdoor Spaces
- Outdoor Connections
- Athletics
- Bathrooms

### Community Priorities

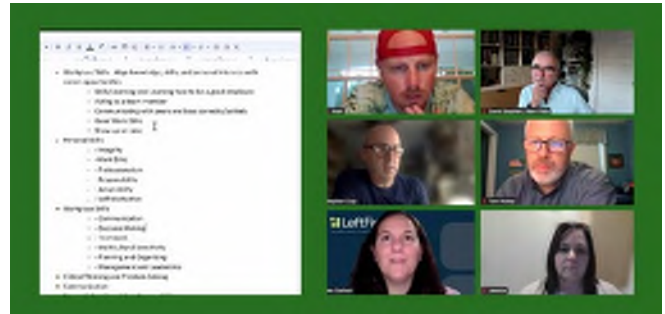
- Inclusivity
- Welcoming Public Face
- Collaboration and Connectivity
- Community Resource
- Gathering Space
- Safe Community Access
- Community Integration
- Flexible Spaces
- Updated Shops
- Adult Education
- Night School Programing
- Access to Outdoor Athletic Fields and Spaces
- Appropriate Community Fit
- Community and Expanded Use
- Parking and Traffic

# SOUTH SHORE Technical High School

## Future Ready Learning Goals 1.0

The following set of priority “Future Ready Learning Goals 1.0” for South Shore Tech students was developed by the Educational Visioning Group during Visioning Workshop One.

1. Workplace Readiness Skills
2. Personal, Social, and Civic Responsibility
3. Effective Communication
4. Growth Mindset
5. Critical Thinking and Problem Solving
6. Lifelong Learning



## Desired 21<sup>st</sup> Century Design Patterns

The following set of priority “21<sup>st</sup> Century Design Patterns” for the design of the renovated and/or new South Shore Tech facility was developed during the Educational Visioning Group (EVG) Visioning Workshop Two.

1. Open and Light-Filled Spaces
2. Indoor/Outdoor Connections
3. School Run Businesses
4. Gathering Hubs
5. Display and Exhibition
6. Sustainability
7. Effective Storage
8. Heart of School
9. Dining as Social Commons
10. Security and Welcome
11. Branding and Identity
12. Thoughtful Career Clusters
13. Vocational Academic Integration
14. Ubiquitous Technology
15. Extended Learning Areas
16. Professional Work Areas

## Guiding Principles 1.0

The following set of “Guiding Principles 1.0” for the design of the renovated and/or new South Shore Tech facility was developed by the Educational Visioning Group during Workshop Three. Guiding Design Principles offer a framework of important educational and architectural priorities.

1. Sense of Place
2. Safety and Welcome
3. Heart of the School
4. Natural Light
5. Adaptability and Flexibility
6. School as Community Resource
7. Building as a Learning Tool

# SOUTH SHORE Technical High School

## Virtual Educational Visioning Schedule and Agendas

A Kick-Off Leadership Team Meeting took place on Wednesday, May 31, 2023, from 8:30 – 10:00 AM and explored the following topics:

- **Priority Goals** for the South Shore Tech academic and career tech programs and the renovated and/or new facility
- **Future-Ready Teaching and Learning Practices** that are currently in practice within or envisioned for SST
- **Virtual Visioning Workshop Logistics** and scheduling

WS One took place on Tuesday, June 20, 2023, from 6:00 – 8:15PM and explored the following topics:

- **Priority Goals** for SST academic and CTE programming, and the renovated and/or new facility
- **Future-Ready Teaching and Learning Practices** that CTE schools throughout the U.S. are thinking about and adopting
- **Future Ready Learning Goals** that distill the group's best thinking about SST's current and future academic and CTE programming and priorities

WS Two took place on Tuesday, July 11, 2023, from 6:00 – 8:15 PM and explored the following topics:

- **Strengths, Challenges, Opportunities, and Goals (SCOG Analysis)** associated with SST's current academic and CTE programming, as well as the district's vision for its future
- **Architectural Design Patterns** that innovative CTE schools throughout the U.S. have put into practice

A Community Forum took place on Thursday, July 13, 2023, from 6:00 – 8:00 PM and explored the following topics:

- **Highlights of Priority Goals** for the South Shore Tech academic and career tech programs and the renovated and/or new facility
- **Highlights of Future-Ready Teaching and Learning Practices** that are currently in practice within or envisioned for SST
- **Highlights of Architectural Design Patterns** that innovative CTE schools throughout the U.S. have put into practice

WS Three took place on Tuesday, July 18, 2023, from 6:00 – 8:15 PM and explored the following topics:

- **Guiding Principles** for the design of the renovated and/or new facility
- **Blue Sky Ideas** that participants would like to see in new school program and facility
- **Bubble Diagramming** of conceptual design ideas for the renovated and/or new facility

## The Visioning Process





A group of South Shore Tech (SST) leadership participated in a 1.5-hour Educational Visioning Kick-Off Meeting on May 31, 2023. The purpose of the meeting was to present an overview of the educational visioning process, discuss overarching priorities for the design of the renovated and/or new SST facility, and establish a framework and schedule for visioning workshops. The following notes highlight information gathered during the meeting.

### Meeting Participants

- |                    |                                  |
|--------------------|----------------------------------|
| 1. Toni Bourgea    | ELA Teacher                      |
| 2. Tom Hickey      | Superintendent                   |
| 3. John Scopelleti | Assessment Specialist            |
| 4. Lisa Bellantoni | Instructional aide               |
| 5. Sandra Baldner  | Assistant Principal              |
| 6. Crystal Paluzzi | Director of Technology           |
| 7. Keith Boyle     | Director of Vocational Education |
| 8. Katie Berry     | Special Education Director       |
| .....              |                                  |
| • Carl Franceschi  | Architect with DRA Architects    |
| • Sarah Carda      | Architect with DRA Architects    |
| • Judd Christopher | Architect with DRA Architects    |
| • David Stephen    | New Vista Design                 |
| • Jen Carlson      | LeftField                        |
| • Adele Sands      | LeftField                        |
| • Lynn Stapleton   | LeftField                        |



### Greatest Hopes

The following hopes and aspirations for a renovated and/or new South Shore Tech facility were shared by workshop participants, and have been grouped thematically.

#### Differentiated Instruction

- Pockets of space for SWD's and remediation!
- An open setting in student services with private areas/offices for 1:1 meeting and direct support
- Inclusion models w/ opportunity for small group/1:1 pull out models within the area

#### Student Centered Learning

- I hope that the space reflects, enables, and amplifies student-centered learning

#### Expanded Population and Programming

- More space for students to service a larger population
- Greatest hope is to provide better space to meet local student demand for programming
- To be able to bring more kids in to the building, with more space for kids
- A new facility with room to expand vocational programs and accept additional student

#### Safety and Welcome

- Safe, welcoming, and spacious
- Lounge areas for students to gather and connect safely

#### Community and Expanded Use

- School ready for 24-7/365 SST school and community use

#### A Modern and Updated School Facility

- I'm most excited for the opportunity for more modernized technology infrastructure
- For a wonderful, innovative, and exciting collaboration effort resulting in a great building
- Less travel and more efficient circulation throughout the building
- More bathrooms

#### Student Run Businesses

- I'd like my students to have the opportunity to work in a public space with and for the community

May 31, 2023

### Project Priorities

The following Educational, Architectural, and Community Priorities for South Shore Tech's academic and Career Tech Education (CTE) programs were brainstormed by workshop participants during the Kick-Off Meeting. Responses have been grouped by like-themes. This list will continue to develop throughout the upcoming Educational Visioning workshops.

### Educational Priorities

#### Flexible and Dynamic Learning

- Flexible, efficient arrangement of spaces
- Flexible and creative to the needs of multiple teachers/paras as well as creative use of space
- Make learning fun, engaging, and relevant
- More technology, flexibility, more paras, opening more doors for students
- Flexible spaces allowing for project-based learning

#### Project-Based and Deeper Learning

- Real world learning experiences
- Expanded project-based learning opportunities in both shops and academics
- Hands-on learning, PBL with shops and academics collaborating
- A student-centered approach to deep learning - not just reading, writing, and worksheets, but critical thinking, creativity, and problem-solving

#### Student Success

- Prepare students best for college, trade, or military
- Want all those doors open

#### Coherent Career Clusters

- Shops divided into cluster areas allowing for collaboration
- Shops organized thematically (e.g. construction shops together)

#### Whole School Connections

- Multipurpose space for large group meetings

#### Seamless Technology

- In-floor outlets and network connections allowing for safer charging/plugging in
- Easily accessible/operation of technology equipment for public spaces

### Architectural Priorities

#### A Modern and Innovative Building

- Building image that reflects the educational priorities

#### Flexibility

- Flexible spaces that allow teachers to adjust instruction to fit student needs and wants
- Would love to see flex seating/display areas

#### Connectivity and Collaboration

- Interfacing spaces among classes and even shops

#### Sustainability

- Green building
- Integrated with the environment, representative of our communities/location, GREEN

#### Warmth and Welcome

- Welcoming and light-filled spaces

#### Student-Run Businesses

- Marketplace theme for public shops with security in mind

#### Small Group Rooms

- Breakout rooms
- Rooms for small group testing

#### Outdoor Connections

- Pathways outdoors for students to walk/de-escalate

#### Display and Exhibition

- Display spaces that allow us to showcase work easily

#### Building as Teacher

- The building itself can become a teaching tool to many of our Chapter 74 programs

#### Bathrooms

## Community Priorities

### A Welcoming and Public Face

- Welcoming and safe access
- To have a public facing space where customers can come in and request jobs
- Public access to service-based shops
- Dedicated access to the public shops
- Parent engagement
- Storefronts/Marketplace

### Adult Education

- Continuing adult education
- Expanding adult education programs and enrollment
- Space to allow for adult education storage in shop

### Updated Shops

- Right sized shops to meet student interest after the Exploratory experience

### Athletic Fields

- Incredible athletic fields
- Synthetic fields
- Community access to athletic facilities as appropriate

### Gathering and Collaboration Space

- Lounge area for students to connect and gather safely

### Community Resource

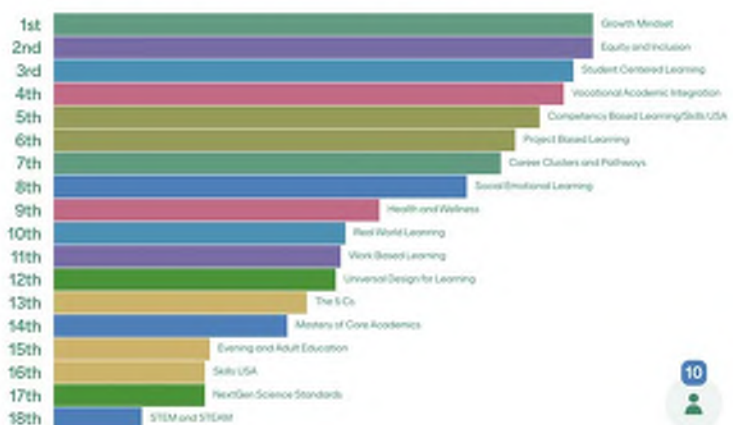
- Assembly spaces that could be rented by the public

## South Shore Tech Priority Educational Focus Areas

The following initial listing of priority educational focus areas for South Shore Tech was brainstormed during the Kick-Off Meeting and will be further explored during Workshop One.

1. Growth Mindset
2. Equity and Inclusion
3. Student Centered Learning
4. Vocational/Academic Integration
5. Competency Based Learning
6. Project-Based Learning
7. Career Clusters and Pathways
8. Social Emotional Learning
9. Health and Wellness
10. Real World Learning
11. Work Based Learning
12. Universal Design for Learning
13. The 5 Cs
14. Master of Core Academics
15. Evening and Adult Education
16. Skills USA
17. NextGen Science Standards
18. STEM and STEAM

### Which elements of teaching and learning are most important to you within SST?



May 31, 2023

### Additional Priority Educational Focus Areas

These additional educational focus areas for South Shore Tech were brainstormed during the Kick-Off Meeting. It was pointed out that many of them are closely connected.

#### Deeper Learning

- The 5 Cs kind of covers the idea of deeper learning, but I think the slogan gets in the way of that. Deeper learning = more than just worksheets and memorization for tests
- Life-long learning
- School culture
- Impact of artificial intelligence

#### Related Instruction

- Related instruction for Ch74 programs
- Workplace preparations for business writing, financial literacy, and business classes

#### Health and Wellness as Connected to SEL

- Social Emotional Learning = Mental Health, and mental health is a part of whole-body health. Health and wellness is a high priority
- Include focus on sports, clubs and activities which could fall under student centered, SEL, etc.

### Project Logistics

The following project logistics were agreed upon during the meeting.

- The Leadership Team will form an Educational Visioning Group of 20-40 people to participate in three 2.25-hour long virtual Educational Visioning Workshops to take place from 6:00-8:15 PM
- The Educational Visioning Group will consist of South Shore Tech leadership, administrators, teachers, parents, and community partners
- Virtual Educational Visioning Workshops will take place on the following dates:

**WS One will take place on Tuesday, June 20, 2023, from 6:00 – 8:15PM and explore the following topics:**

- **Priority Goals** for SST academic and CTE programming, and the renovated and/or new facility
- **Future-Ready Teaching and Learning Practices** that CTE schools throughout the U.S. are thinking about and adopting
- **Future Ready Learning Goals** that distill the group's best thinking about SST's current and future academic and CTE programming and priorities

**WS Two will take place on Tuesday, July 11, 2023, from 6:00 – 8:15 PM and explore the following topics:**

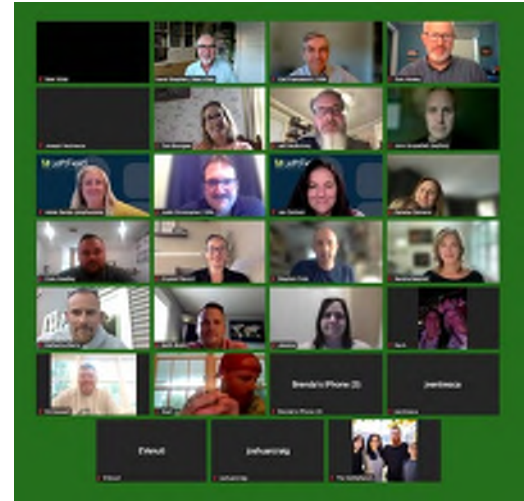
- **Strengths, Challenges, Opportunities, and Goals (SCOG Analysis)** associated with SST's current academic and CTE programming, as well as the district's vision for its future
- **Architectural Design Patterns** that innovative CTE schools throughout the U.S. have put into practice
- **Blue Sky Ideas** that participants would like to see in new school program and facility

**WS Three will take place on Tuesday, July 18, 2023, from 6:00 – 8:15 PM and explore the following topics:**

- **Guiding Principles** for the design of the renovated and/or new facility
  - **Bubble Diagramming** of conceptual design ideas for the renovated and/or new facility
  - **Key Talking Points** that aim to communicate the visioning group's priorities and findings to the SST community
- A community meeting will take place to give an overview of the educational visioning process and elicit community feedback on their educational, architectural, and community priorities. This meeting will occur on Tuesday, July 13, 2023, which is between Ed Visioning Workshops Two and Three.

## Educational Visioning Workshop One Notes 6.20.23

The South Shore Technical High School (SST) Educational Visioning Group (EVG) met for the first of three virtual Educational Visioning Workshops from 6:00 – 8:15 PM on Tuesday, June 20, 2023. The EVG is a group of approximately 20 participants that includes SST leadership, administrators, teachers, parents, and students. Visioning Workshops are being facilitated by New Vista Design and DRA Architects, with the goal of leading participants through a step-by-step visioning process aimed at capturing their best thinking about SST's current and future educational goals and priorities and connecting them to best practices and possibilities in future-thinking Career Technical Education (CTE) school facility design. If you have questions about the workshops or would like to add additional priorities to the list below, please email them to David Stephen at [david@newvistadesign.net](mailto:david@newvistadesign.net).



### Greatest Hopes

The following hopes and aspirations for the renovated and/or new South Shore Tech facility were shared by workshop participants at the start of the Educational Visioning Workshop. Responses have been grouped thematically.

#### Updated and Larger Building

- A new 21st century image
- A bigger and modernized building
- Larger school to allow more students
- More space for our existing students to thrive
- Better spaces, better flow, better places to teach
- Larger modern shops, classroom, and common area
- A new school that reflects South Shore's education program most appropriately
- A well-functioning building with better security
- Updated equipment

#### Welcoming Design

- Renewed, inviting look to the school
- Welcoming flow for open house and student tours

#### Increased Diversity

- More diversity of students and differentiation of instruction

#### Athletics

- Proper spaces and equipment for athletics

#### Sustainability

- Eco-friendly

#### Collaborative Spaces

- Auditorium
- More space for larger groups to come together

#### Cultivating Community and School Culture

- Provide the SST community the space and resources needed to create a growing community and learning environment
- Allows for focus on relationships and learning

#### Community Access and Use

- Community space that meets day, evening, summer, academic, and extra-curricular needs
- School business open to the public
- Expanded building that allows adequate space for CH74 programming with safe and accessible areas for public use

#### Technical Education Facilities

- Larger and state-of-the-art shop spaces
- A safe, healthy workplace for the metal fab/ welding students to learn a broad spectrum of skills to be ready for a diverse workforce
- A Chapter 74 Plumbing program
- Each shop having their own related classroom space



## Project Priorities

The following Educational, Architectural, and Community Priorities for South Shore Tech's renovated and/or new facility were brainstormed by workshop participants during the Workshop One. Responses have been grouped thematically. This list will continue to develop throughout the upcoming Educational Visioning workshops.

## Educational Priorities

### Student -Centered Learning

- Making lifelong learners
- Creativity, critical thinking, and problem-solving are valued more than compliance and regurgitation of something someone else learned

### Vocational Academic Integration

- Integration of academic and career tech programs
- Project-based and student-centered learning that integrates academics and ch74
- Separation of trade and learning classes during shop weeks and educational weeks

### Expanded Chapter 74 Options

- Stay progressive in the industry space and adapt to the current climate. The construction trade is ever changing and it's important to make sure students are equipped
- Additional trade shops with separate related classrooms

### Real World Connections

- Connect vocational education with employers
- Providing real world experiences, including co-ops

### Inclusive and Differentiated Learning

- Flexible to changing needs of all types of education
- All students can achieve at a high level and get the supports they need every day
- Being able to meet and support students and student learning where they are at
- Having enough resources to provide to all students (i.e., reading material that is currently shared)
- Space for students who may struggle/accountability room

## Architectural Priorities

### Welcoming Spaces

- Warm and welcoming with modern colors
- Large modern, innovative, open, and bright spaces
- Colorful spaces, no more beige
- Natural light and open spaces
- More windows for natural light

### Good Wayfinding

- Better flow of classrooms and shop spaces as well as ensuring you know you're at SST ( more branding)
- Welcoming flow for new students & families for open house and tours
- Compact efficient layout to help flow within a larger building

### Flexible Spaces

- Flexible and multi-purpose spaces
- Flexible spaces for growth in the field
- Adequate space for all learning

### Collaborative Spaces

- Places for teachers to convene in large and small spaces
- Need for a large gathering multi-purpose space
- A fantastic auditorium, used for staff and students
- Breakout space
- A dedicated space only for meetings

### Community Space

- Community space
- Community gathering space

## Architectural Priorities *Continued*

### Good Connectivity

- Less compartmentalization and more flow
- Connect shops that deal with public like Cosmo, Culinary and Graphics
- Space for collaboration between shops

### More Space

- Bigger and more modern shops
- Enough space for teachers so they can create fun, flexible, student-focused learning experiences and environments
- Space for adding new programs/shops
- Open spaces within shops
- Storage spaces

### Storefronts with Community Access

- Visible community facing shops and clear branding
- Places for community businesses to connect to students
- Inviting storefronts with multiple programs to create a one shop all experience for the public

### Health and Safety

- Adequate ventilation for dust and smoked filled environments
- Safety

### Display and Exhibition

- Place to showcase student work

### Athletics

- Athletic rooms for training
- Synthetic multi use sports field with lights
- Artificial turf field
- Updated athletic fields

### Outdoor Spaces and Connectivity

- Indoor outdoor connections
- State of the art outside track and field, football, baseball, etc.
- Usable outdoor spaces
- Heated spaces to be able to bring outdoor projects in, allowing students to complete projects that rely on warm weather to learn

### Bathrooms

- Equal facilities for gendered and non-gendered students
- A setup that doesn't have doors on bathrooms

### Building as Teacher

- Connecting what students are learning with systems within the building

### Support for Night School Programming

- Expanded night school programming

## Community Priorities

### Inclusive and Welcoming School Culture

- Ensure students feel like a supported/connected community within
- Inclusive - all are welcome (seen, supported, and safe)
- A school that informs and allows community to see what the students are capable of

### Collaboration and Connectivity

- Have more communication between crossover shops and allow students to work between trades more freely
- Interaction with staff, students and public
- Connected shops that may work together a lot

### Community Access and Integration

- Welcoming access to public shops
- Visible community facing programs with clear branding
- More community ties between shops
- Shared spaces! Building relationships with our sending districts. Please use our space, etc.
- Connected to all sending towns; include design elements that feel native to sending town or sense of home
- More community space such as auditorium or meeting spaces that can be utilized for community and learning based events
- An auditorium/ presentation space that can be rented

## Community Priorities *Continued*

### Night School Programing

- Expanded night school programs
- Community classes at night
- Separate storage for night school elements

### Access to Outdoor Athletic Spaces

- Synthetic multi-use sport fields with lighting
- Track for walking

### Flexible Spaces

- Space near main entrances for admissions/prospective parents to meet and greet

### Appropriate Community Fit

- Attractive, modern, and inviting but not ostentatious to those who pass by or through

### Parking and Traffic

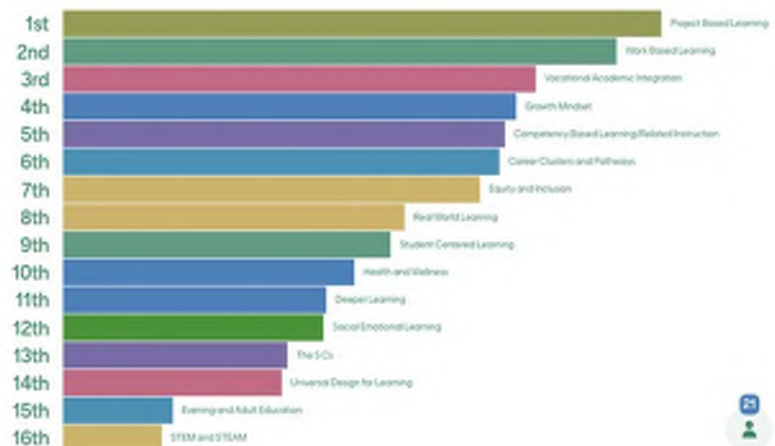
- Much more efficient parking for the shops who host the public
- A better flow of traffic when the school day ends
- Safety! Designed so the community can access the school while keeping the faculty safe

## SST Priority Educational Focus Areas

A set of priority educational focus areas were introduced to the EVG during Workshop One as being of key importance to SST leadership. Workshop participants then rated them in order based on their own priorities, resulting in the following listing.

1. Project-Based Learning
2. Work-Based learning
3. Vocational Academic Integration
4. Growth Mindset
5. Competency Based Learning
6. Career Clusters and Pathways
7. Equity and Inclusion
8. Real World Learning
9. Student-Centered Learning
10. Health and Wellness
11. Deeper Learning
12. Social Emotional Learning
13. The 5 Cs
14. Universal Design for Learning
15. Evening and Adult Education
16. STEAM and STEAM

### Which elements of teaching and learning are most important to you within SST?



### Additional Language to be Considered

When asked to share what language about key educational programs and priorities was missing from the previous list, participants shared the following responses which have been grouped thematically.

#### Relationships

- Relationships and school culture
- Home & school partnerships
- Parents as partners
- Building of school community
- Relationships need to be built
- Community space that drives collaboration and the development of culture within SST
- Community service

#### Building as Teacher

- The building as a learning tool

#### Whole-Student Focus

- A focus on whole student/educator wellness - physical/mental health integration for all
- Art/music/foreign language
- School culture related to athletics
- Athletic spaces

### SST Educational Focus Areas in Practice

When asked to share what the highlighted teaching and learning practices look like at SST, either now or in an aspirational future, workshop participants responded with the following comments which have been grouped thematically.

What these practices (1-6) look like at SST now:

#### Student Centered Learning

- Equity and inclusion are now a priority
- There is an increased focus on student-centered learning and individualized teaching and learning

#### Vocational/Academic Integration

- Integration and alignment within departments now
- In the past we had separate related space and shop collaborations when we had two campuses, now there is less space, so this is more difficult

#### Project-Based Learning

- Project-based learning is a priority, but we have limited storage and spaces are cramped

1. Growth Mindset
2. Equity and Inclusion
3. Student Centered Learning
4. Vocational/Academic Integration
5. Competency Based Learning
6. Project-Based Learning

What these practices (1-6) could look like in an aspirational future:

#### Growth Mindset

- Growth Mindset is encouraged and modeled

#### Equity and Inclusion

- Increased diversity that promotes equity and inclusion

#### Student Centered Learning

- Space to explore ideas through experiences
- Tangible outcomes in all content areas

#### Vocational/Academic Integration

- Working together
- See a return to collaboration and spaces support connectivity
- Increased collaboration between academics and vocational shops
- More support for shop-to-shop collaboration

What these practices (1-6) could look like in an aspirational future (continued):

### Competency Based Learning

- Competency-based learning will be enhanced
- Systems in place for students to develop and demonstrate mastery

### Project-Based Learning

- Projects that integrate multiple departments
- Project-based learning embedded within culture of school

What these practices (7-12) look like at SST now:

### Career Clusters and Pathways

- We are now very siloed in our departments and programs

### Real World Learning

- COOP is encouraged in the Junior and Senior year

7. Career Clusters and Pathways
8. Social Emotional Learning
9. Health and Wellness
10. Real World Learning
11. Work Based Learning
12. Universal Design for Learning

What these practices (7-12) could look like in an aspirational future:

### Career Clusters and Pathways

- Career Clusters and Pathways are clearly defined
- We help students and teachers to build relationships
- Vocational teachers have the capacity to teach students from other programs

### Social Emotional Learning

- Social Emotional Learning competencies are embedded and reinforced in existing curriculum

### Health and Wellness

- Health and wellness to grow
- Space to enhance population of collaboration and connectivity for better school spirit

### Real World Learning

- There are increased student options for real world learning
- Makerspaces on campus promote cross curriculum opportunities
- There is support for entrepreneurship and student run businesses

### Work-Based Learning

- There is a school store for all shops
- Work-based learning is brought into the building, allowing students to start relationship building with employers early

### Universal Design for Learning

- UDL is seamlessly integrated into programming

What these practices (13-19) look like at SST now:

### Master of Core Academics

- There is pressure to cover a lot of content standards

### Evening and Adult Education

- Evening education is mainly for adults
- Adult education is as crammed in as we can

13. The 5 Cs
14. Mastery of Core Academics
15. Evening and Adult Education
16. NextGen Science Standards
17. Related instruction
18. Deeper Learning
19. STEM and STEAM



What these practices (13-19) could look like in an aspirational future:

### The 5 Cs

- The 5 C's drive assessments, curriculum, and instruction
- We emphasize students developing an inquiring spirit

### Evening and Adult Education

- We train high schoolers in evening... those who don't necessarily come to SST during the day
- Expand scope to more frequent sessions for all shops
- Building will be designed with both day and night students in mind, allowing for a robust night school

### Related Instruction

- Each shop must have their own related room that can be used by instructor at any time
- Our school once staffed could be spectacular to the future of trades
- Space for related rooms for shops

### Deeper Learning

- Prioritize power standards; fewer standards taught with deeper learning
- When combined with new assessment system - less ritual compliance - learners who have a true spirit of inquiry

### STEM and STEAM

- STEAM learning including the creativity of arts for all students that can be applied to their trade in personal ways

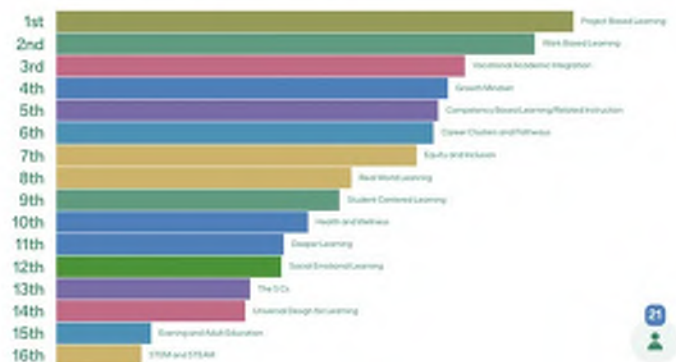
## SST Priority Future Ready Learning Goals

A set of priority educational focus areas were introduced to workshop participants as being of key importance to South Shore Tech leadership, who then rated them in order based on their own priorities, resulting in the following listing.

- Collaboration (12 mentions)
- Effective Communication (10)
- Adaptability (9)
- Joy (7)
- Work Ethic (6)
- Creativity (6)
- Teamwork (5)
- Empathy (4)
- Critical Thinking (4)
- Emotional Intelligence (3)
- Growth Mindset (3)
- Risk Taking (3)
- Initiative (3)
- Responsibility (2)
- Problem Solving (2)
- Leadership (2)
- Integrity (2)
- Relationships (2)
- Negotiation (2)
- Confidence (2)
- Problem Solving
- Commitment

- Mastery
- Citizenship
- Digital Literacy
- Self-Directed Learning

### Which elements of teaching and learning are most important to you within SST?



- Inclusion
- Student-centered
- Community Engagement
- Excitement
- Pride
- Kindness
- Curiosity

## SST Future Ready CTE Learning Goals 1.0

The following set of “Future Ready CTE Learning Goals 1.0” for South Shore Tech students was developed by the Educational Visioning Group (EVG) during the Visioning Workshop One that took place on June 20, 2023. The EVG is a group of approximately 30 participants that includes SST leadership, administrators, teachers, parents, and students. Five teams of 4-5 participants worked in small groups to create their own set of SST Future Ready CTE Learning Goals for a theoretical poster that would appear in each STS classroom. Each team’s list was then grouped by like goals, with each Learning Goal receiving 5 votes for appearing on an original list.

This version of SST Future Ready CTE Learning Goals Poster 1.0 will likely continue to evolve and will serve to inform the EVG’s conversations about the teaching and learning practices and priorities that should be supported by the renovated and/or new SST school facility.

### 7. Workplace Readiness Skills (35 votes)

- Work Ethic
- Modern Tools of the Trade
- Essential Workplace Habits
- Learning How to be a Good Employee
- Customer Service Skills

### 8. Personal, Social, and Civic Responsibility

(35 votes)

- Empathy and Cultural Proficiency
- Integrity and Responsibility
- Vocational Partnerships
- Volunteerism and Community Engagement
- Extracurricular and Athletic Engagement

### 9. Effective Communication (30 votes)

- Written and Oral Communication
- Acting as a Team Member
- Building Relationships
- Digital Literacy

### 10. Growth Mindset (25 votes)

- Adaptability
- Explorative and Open Mindset
- Risk-Taking Within a Safe Environment
- Faculty Behavior Modeling

### 11. Critical Thinking and Problem Solving

(25 votes)

- Flexible Mindset
- Inventive Thinking
- Real World Problem Solving

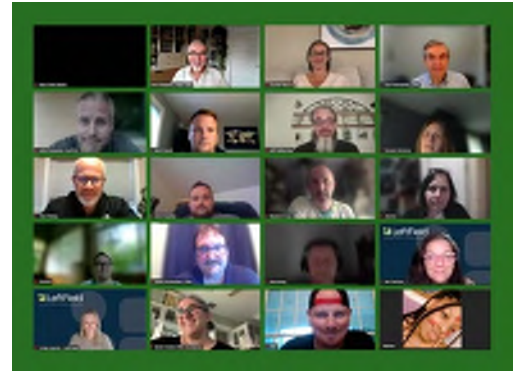
### 12. Lifelong Learning (25 votes)

- High Productivity
- Planning and Organization
- Self-Advocacy

July 11, 2023

### Educational Visioning Workshop Two Notes

The South Shore Technical High School (SST) Educational Visioning Group (EVG) met for the second of three virtual Educational Visioning Workshops from 6:00 – 8:15 PM on Tuesday, July 11, 2023. The EVG is a group of approximately 20 participants that includes SST leadership, administrators, teachers, parents, and students. Visioning Workshops are being facilitated by New Vista Design and DRA Architects, with the goal of leading participants through a step-by-step visioning process aimed at capturing their best thinking about SST’s current and future educational goals and priorities and connecting them to best practices and possibilities in future-thinking Career Technical Education (CTE) school facility design. If you have questions about the workshops or would like to add additional priorities to the list below, please email them to David Stephen at [david@newvistadesign.net](mailto:david@newvistadesign.net).



### Reflections on Future Ready Learning Goals

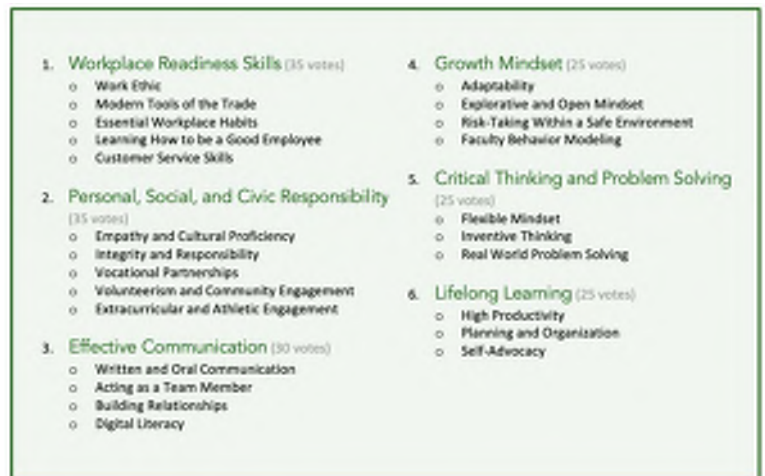
After reviewing the set of Future Ready Learning Goals 1.0, Workshop Two participants shared the following reflections and comments regarding what strikes them about the list, or what is missing.

#### What Strikes You About the List?

- Good/Great list (7)
- I think the list is a great representation of what we want in an SST student. Can’t think of anything that’s missing
- As a vocational school workplace readiness skills are essential for student employment success
- There is some repetition

#### What’s Missing?

- There is nothing specific about college-readiness... which is not necessarily a bad thing, just interesting
- Readiness levels for all post-secondary pathways



## Strengths, Challenges, Opportunities, and Goals

The following list of Strengths, Challenges, Opportunities and Goals regarding South Shore Tech's programming and facilities was brainstormed by members of the Educational Visioning Group (EVG) during Workshop Two. Participant responses have been grouped thematically.



### SST EDUCATIONAL STRENGTHS

#### Personalized and Engaging

- Small school environment (2)
- We help a wide range of students with a wide range of strengths get ready for a wide range of post-school options
- A place for a new start for many students

#### Strong Curriculum and Programming

- Curriculum is well aligned within departments
- Departments are constantly refining what they teach and how they teach the students in front of them. They want what is best for kids to be successful when they leave school
- Having a good class size, learning curriculum
- Staff and size of student to staff ratio

#### Innovation

- Commitment to modern up-to-date equipment and technology
- A willingness to innovate

#### Teacher Dedication

- Staff dedication
- The teachers and the way they care about learning
- Teachers engaging with students

#### Hands-On Learning

- Rigorous hands-on learning (3)
- A strong COOP/Internship program
- Real life work within the community
- Competition prep: Skills USA and FFA (Future Farmers of America)
- Community engagement. Sales and off campus work

#### Athletics

- The number of athletic teams and programs we have

#### Teacher Collaboration

- CTE programs working together. Helping each other

#### Leadership and Partnership

- Long term leadership
- Strong advisory boards and industry partners



### SST EDUCATIONAL CHALLENGES

#### Personalized Student Support

- Supporting students is much more than just the curriculum: mental health and personalized supports are needed so students can thrive
- We help a wide range of students with a wide range of strengths pursue options after school

#### Industry Specific Alignment and Innovation

- Keeping up with changes in each program to stay current and up to date
- Responding to local economic needs
- Keeping up with the demand from industry for trained people

#### Deeper Learning

- Getting into deeper learning instead of superficial recall (academics)
- Time within the school day to offer more than basic academics such as foreign language (important in many workplaces)
- Time! Finding time to support student learning, let alone extension and personalized learning
- The cycle system prevents a lot of flexibility in student offerings



## SST EDUCATIONAL CHALLENGES *Continued*

### Integration of Academic and Vocational Content

- Ability to connect academics with shop learning
- Cycle system = one week in shop and one week in academics

### Staying Abreast of Technology

- Keeping up with technology demands
- Sustained funding to maintain current equipment and long-range capital needs

### New Program Offerings

- Expanding or adding new programs tied to regional blueprint demand

### Growth in Enrollment

- How can we maintain growth?
- Ensuring we can maintain and expand coop partners as we increase enrollment

### Maintaining Staff

- Having consistent staff



## SST FACILITY STRENGTHS

### Greeting and Gatekeeping

- Good entry sequence with security window and admin oversight first and access to students second

### Easy to Navigate

- Small and compact campus
- Small school that is easy to navigate
- Hard to get lost for new students

### Outdoor Connections

- Ability to eat outside during lunch.

### Direct Access to Some School Run Businesses

- Direct access to Culinary & Cosmetology

### Bathrooms in Shop Settings

- Having bathrooms in shop settings helps

### Natural Light

- There is natural light in most education spaces

### Shops

- Well-equipped shops

### Curb Appeal

- Attractive building, thanks Tom Hart & Co.



## SST FACILITY CHALLENGES

### Outdated Building

- Dated image
- Age of building, current layout no room to expand up or side to side
- Building style and image
- Lack of color
- Outdated colors

### Inadequate Space

- Space (2)
- Adequate space to expand
- Appropriately sized shops
- Updated spaces

### Lack of Connectivity

- There's a physical divide for some academic departments and shops
- Inability to have academic departments all together
- Student services and specialists' spaces are not always contiguous
- Would be nice to see a greenhouse attached to the building instead of free standing

### Security

- Security is weak in back of building





### SST FACILITY CHALLENGES *Continued*

#### Inequitable Resources

- Lack of facilities for females when compared to male offerings

#### Lack of Gathering Spaces

- No assembly/ presentation space
- No space for all-school assembly
- We need a larger and modernized café
- No open spaces/multi-purpose space to gather
- Lack of space for parent/public meetings and prospective parent admissions meetings

#### Lack of Performance Spaces

- Auditorium/theater for Drama and staff meetings
- Would be nice to see an auditorium/theater to support staff meetings and drama club

#### Lack of Varied Spaces

- Lack of variety of spaces
- No small group spaces

#### Bathrooms

- We need an adequate number of bathrooms
- Need for gender neutral bathrooms (4)

#### Technology Infrastructure

- Technology
- Spotty WIFI
- Electrical not have adequate plugs and power sources

#### Lack of Related Classrooms

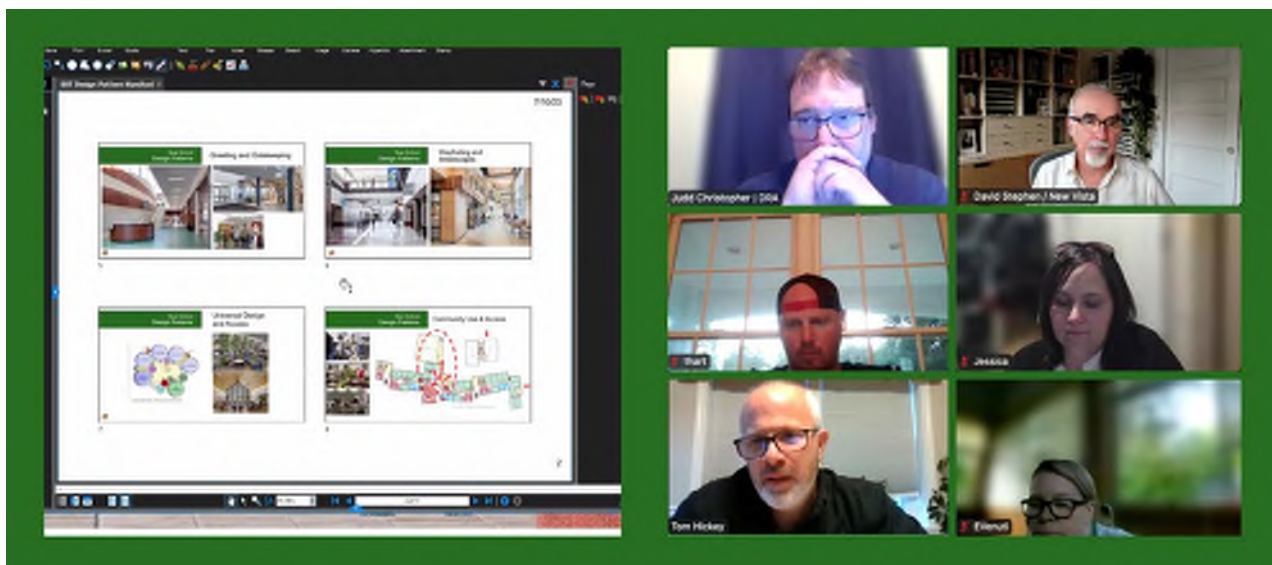
- Not having the Related Classrooms connected to the shop
- Every shop needs their own related space to use at their discretion during the day

#### Lack of Professional Spaces

- Effective planning spaces for teachers
- Lack of spaces for planning or gatherings
- Shop teachers need office space in their shop

#### Parking and Dismissal

- Parking/dismissal routines are a challenge

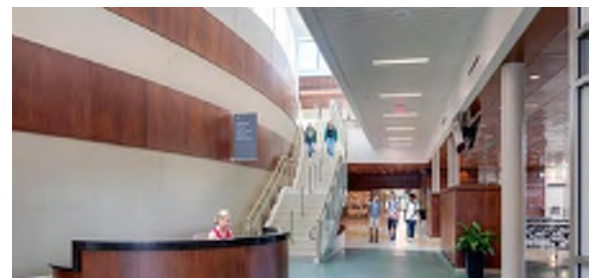


## Desired 21<sup>st</sup> Century Design Patterns 1.0

The following set of priority “21<sup>st</sup> Century Design Patterns” for the design of the renovated and/or new South Shore Tech was developed by the Educational Visioning Group (EVG) during Workshop Two. Workshop participants were introduced to 36 “Design Patterns” that represent varied architectural design features of, and approaches to 21<sup>st</sup> century school facility design. Individual participants first rated each Design Pattern with a heart, thumbs up, or thumbs down, and were then given the opportunity to rate Design Patterns collectively in order of importance. The resulting list of Design Patterns has been placed in priority order based on the cumulative total of hearts, thumbs up, and priority ratings that each received.

### Top 12 Design Patterns

1. Professional Work Areas (30 votes)
2. Dining as Social Commons (28 votes)
3. Display and Exhibition (27 votes)
4. Branding and Identity (27 votes)
5. Indoor/Outdoor Connections (27 votes)
6. Heart of the School (26 votes)
7. School Run Businesses (26 votes)
8. Natural Light and Biophilia (26 votes)
9. Effective Storage (26 votes)
10. Security and Welcome (25 votes)
11. Community Use and Access (25 votes)
12. Media Center as Learning Commons (25 votes)



### Next 12 Design Patterns

13. Enrichment Spaces (24 votes)
14. Academic Vocational Integration (23 votes)
15. Sustainability (23 votes)
16. Storytelling and History (22 votes)



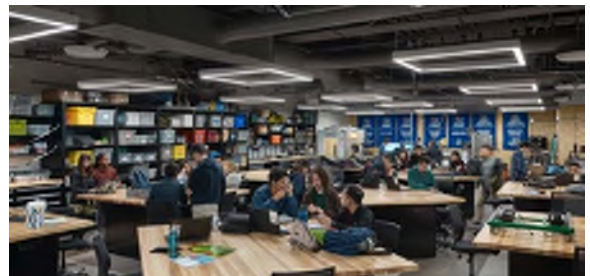
## Next 12 Design Patterns *Continued*

17. Ubiquitous Technology (22 votes)
18. Outdoor Gathering and Learning Spaces (22 votes)
19. Flexible and Adaptable Classrooms (21 votes)
20. Greeting and Gatekeeping (20 votes)
21. Modular and Adaptable Furniture (20 votes)
22. Maker Spaces (20 votes)
23. Welcoming Arrival (19 votes)
24. Wayfinding and Streetscapes (19 votes)



## Remaining Design Patterns

25. Classroom Neighborhoods (18 votes)
26. Career Clusters and Pathways (18 votes)
27. Gathering Hubs (18 votes)
28. Informal Learning & Presentation Spaces (18 votes)
29. Building as Teacher (18 votes)
30. Visible Learning and Transparency (17 votes)
31. Breakout and Quiet Spaces (16 votes)
32. Dispersed Resources (14 votes)
33. Extended Learning Spaces (12 votes)
34. Universal Design and Access (11 votes)
35. Spatial Synergy (9 votes)
36. Distributed Dining (8 votes)





## Desired 21<sup>st</sup> Century Design Patterns 2.0

The following set of priority “21<sup>st</sup> Century Design Patterns 2.0” for the design of the renovated and/or new South Shore Tech facility was developed by the Educational Visioning Group (EVG) during Workshop Two. Working in small groups, participants were given the opportunity to interact further with the Design Patterns that they had been introduced to. Three teams of 4-5 participants each worked to create their own set of 8-12 priority Design Patterns and attributes, which were later grouped by like themes and are listed below in order of the number of “votes” they received, with each pattern given 5 votes for every time that it appeared on a team’s list.

- **Open and Light-Filled Spaces** (15 votes)
  - Natural light throughout
  - Easy navigation and wayfinding
  - Light-filled spaces for students to gather
- **Indoor/Outdoor Connections** (15 votes)
  - Exterior access as vital for a majority of shops
  - Outdoor extensions of shop spaces, i.e., Culinary Arts produce garden/Metal Fabrication project assembly
  - Receiving shipment of materials
  - Outdoor eating area
- **School Run Businesses** (10 votes)
  - Safe community access to student-run businesses
  - Open and inviting
  - Culinary, Cosmetology, and Graphics rely of having interactions with the public
  - Shops should be located close to the front of the building (i.e., Horticulture)
- **Gathering Hubs** (10 votes)
  - Larger gathering space with many functions
  - Open, light-filled spaces where student can gather
- **Display and Exhibition** (10 votes)
  - Place to showcase achievements
  - Portfolio creation and exhibition
- **Sustainability** (10 votes)
  - Building as teaching tool
  - Exposed infrastructure
- **Effective Storage** (10 votes)
  - Storage to support flexible, multi-purpose and shared spaces, such as shops that are shared with evening programs
  - Storage for CTE and academic materials (shops are now cluttered with backpacks)



July 11, 2023

### Desired 21<sup>st</sup> Century Design Patterns 2.0 *Continued*

- **Heart of School/ Dining as Social Commons** (5 votes)
  - Variety of seating options for smaller groups and individuals to not feel overwhelmed
  - Connection to outdoors
- **Security and Welcome** (5 votes)
  - Safe entry and access
- **Branding and Identity** (5 votes)
  - Ease of wayfinding using color palettes
  - Branding of programs and clusters
- **Thoughtful Career Clusters** (5 votes)
  - Like the current collocation of CTE programs but with support spaces
  - Branding and identity is key
  - Concern about academies limiting possible cross collaboration between shops
- **Vocational Academic Integration** (5 votes)
  - Adjacency of shops to academic classrooms
- **Ubiquitous Technology** (5 votes)
  - Support learning happening everywhere, including Extended Learning Areas
- **Extended Learning Areas** (5 votes)
  - Carefully designed for ease of supervision
  - Not obstructing the flow of circulation
- **Professional Work Areas** (5 votes)
  - Teachers own quiet space
  - Multi-purpose use
- **Enrichment Spaces** (5 votes)
  - Like presentation spaces that can support extra-curricular activities like drama, music, art after school programs and/ or be available to the community
- **Community Use & Access** (5 votes)
  - Community renting out space





## Personal Favorite Design Patterns

When asked to share their “personal favorite” Design Patterns, workshop participants responded with the following feedback.

- Heart of the School (11 mentions)
- Effective Storage (7)
- Sustainability (5)
- Display and Exhibition (6)
- School Run Businesses (5)
- Security and Welcome (5)
- Enrichment Spaces (4)
- Natural Light (3)
- Academic Vocational Integration (2)
- Building as Teacher (2)
- Ubiquitous Technology (2)
- Professional Work Areas
- Enrichment
- Flexible and Adaptable Classrooms
- Teacher Planning Space
- Community Use and Access
- Indoor-Outdoor connection
- Larger Spaces
- Career Clusters
- Dining as Social Commons
- Maker Space
- Outdoor Spaces
- Social Commons
- Use of Color



# SOUTH SHORE Technical High School

## Virtual Educational Visioning Workshop Three Notes

July 18, 2023

The South Shore Tech Educational Visioning Group (EVG) met for the third of three virtual Educational Visioning Workshops from 6:00 – 8:15 PM on Wednesday, July 18, 2023. The EVG is a group of approximately 20 participants that includes SST leadership, administrators, teachers, parents, and students. Visioning Workshops are being facilitated by New Vista Design and DRA Architects, with the goal of leading participants through a step-by-step visioning process aimed at capturing their best thinking about SST's current and future educational goals and priorities and connecting them to best practices and possibilities in future-thinking Career Technical Education (CTE) school facility design. If you have questions about the workshops or would like to add additional priorities to the list below, please email them to David Stephen at [david@newvistadesign.net](mailto:david@newvistadesign.net).



## Design Patterns Feedback

At the start of Workshop Three, participants reviewed the Design Patterns that had been prioritized during Workshop Two (see listing on previous pages) and shared the following feedback about what struck them and surprised them about the list, as well as whether anything was missing from the list.

- These design patterns make sense to me
  - Seems like a good summary of characteristics that would make a great new school
  - I appreciate the thought of different ways to dine so everyone feels comfortable
  - The order is interesting, but everything important looks like it's here
  - I'm surprised about the indoor/outdoor connections being so high on the priority list
  - We should make sure to include Related Classroom spaces
  - We are missing well-designed office spaces in appropriate locations in the building
  - It would be good to visit some schools that have these principles
1. Open and Light-Filled Spaces
  2. Indoor/Outdoor Connections
  3. School Run Businesses
  4. Gathering Hubs
  5. Display and Exhibition
  6. Sustainability
  7. Effective Storage
  8. Heart of School
  9. Dining as Social Commons
  10. Security and Welcome
  11. Branding and Identity
  12. Thoughtful Career Clusters
  13. Vocational Academic Integration
  14. Ubiquitous Technology
  15. Extended Learning Areas
  16. Professional Work Areas

## South Shore Tech Guiding Principles 1.0

The following set of “Guiding Principles 1.0” for design of the renovated and/or new South Shore Tech facility was developed by the Educational Visioning Group (EVG) during Workshop Three. Guiding Principles are big picture educational and architectural priorities that provide an invaluable framework for making design decisions and choices as the design process unfolds.

The EVG was introduced to four Case Studies of recent CTE school projects in which the Guiding Principles for each school were reviewed as connected to design decisions that were made for the project. Three teams of 4-5 participants each worked to create their own set of 4-6 Guiding Principles for the SST project, which were later grouped by like themes and are listed below in order of the number of “votes” they received, with each pattern given 5 votes for every time that it appeared on a team’s list.

These Guiding Principles will likely continue to evolve.

- 1. Sense of Place** (10 votes)
  - Learning communities
  - Public area and academic area
  - Displays of student work
  - A school that looks like a place of learning
  - A facade that is reflective of the community
- 2. Safety and Welcome** (10 votes)
  - Welcoming wayfinding
  - A courtyard that would give a space for student to gather outside in a safe place
- 3. Heart of the School** (10 votes)
  - Multi-purpose Commons
  - Open and with a variety of spaces
- 4. Natural Light** (10 votes)
  - Visual and functional connections to the outdoors
- 5. Adaptability and Flexibility** (15 votes)
  - The ability to evolve, grow, and adapt to changing 21<sup>st</sup> century skills
  - The ability to flex when future technology and vocational equipment are introduced
- 6. School as Community Resource** (15 votes)
  - Welcoming yet secure
  - Public spaces and public facing CTE programs are secured from other areas of the school
  - An active community and an active night school program
- 7. Building as a Learning Tool** (10 votes)
  - Have the students understand the systems and be a part of the maintenance of these systems
  - Horticulture student being a part of maintaining the school grounds
  - Having an energy efficient building system

## Blue Sky Ideas

The following “Blue Sky” ideas for the design of the renovated and/or new South Shore Tech facility were developed by the Educational Visioning Group (EVG) during Workshop Three. Individual participants brainstormed Blue-Sky Ideas, which have been recorded below. Blue Sky Ideas, though sometimes not feasible due to budget or design constraints, often hold the seeds of aspirational ideas and design approaches that can be implemented on some level within the design

### Appropriate Look and Feel

- Contemporary but not cold
- Traditional architecture that won't look dated in 20 years
- Strong design aesthetic: beautiful, not too modern yet not too old timey

### Exhibition and Display

- Highlights of student/faculty work and achievements when one walks in the building
- Bulletin boards that look spectacular and are easy to update
- Art, graphics, and showcase work
- Digital walls

### Sustainability

- Electric car chargers
- Net zero building
- Solar panels?

### Outdoor and Nature Connections

- Lots of natural light
- A completely enclosed courtyard that is open to all classrooms
- Green roof is an interesting idea
- Plants everywhere

### Equity of Space

- Equitable spaces for all types of students

### Robust Technology

- Top of the line equipment
- Ubiquitous Technology

### Good Flow and Circulation

- Logical flow for students in the building
- Better Campus flow for parent pick up and athletics

### Flexible Furniture

- Furniture that allows for flexible learning environments: desks and tables that move, chairs and stools that accommodate lots of body types, etc.

### Good Use of Color

- Good use of color to define spaces
- School colors - but not too literal

### Good Lighting

- Better lighting and adequate electrical for shops

### Athletics

- Swimming pool
- Improved athletic spaces

### Appropriately Sized Building

- Enough space
- What if the school was more of a community resource but smaller by having more coop and internships ?

### Relationship Building

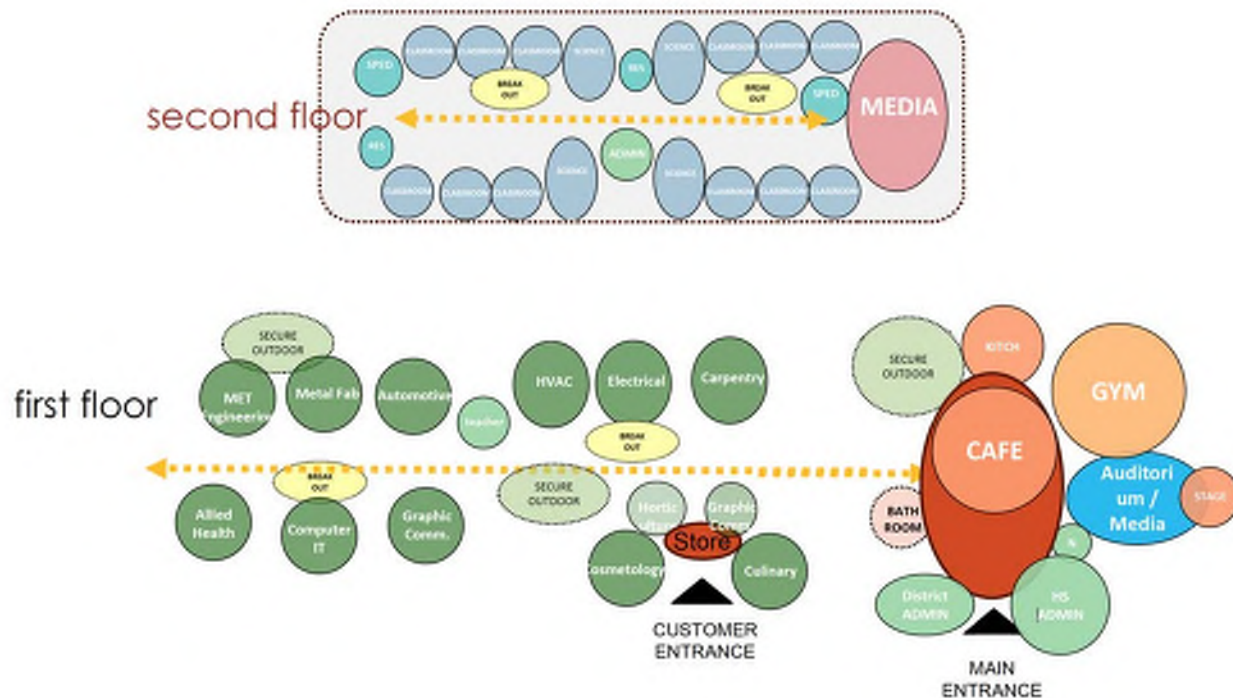
- Spaces that invite relationship-building, both formal and informal

### Ease of Maintenance

- Clean - and easy to keep clean

## Whole School Diagram One

This Whole School adjacency diagram was created by a small group of workshop participants with the assistance of a member of the architectural design team to communicate their ideas about spatial adjacencies for the renovated and/or new South Shore Tech facility.



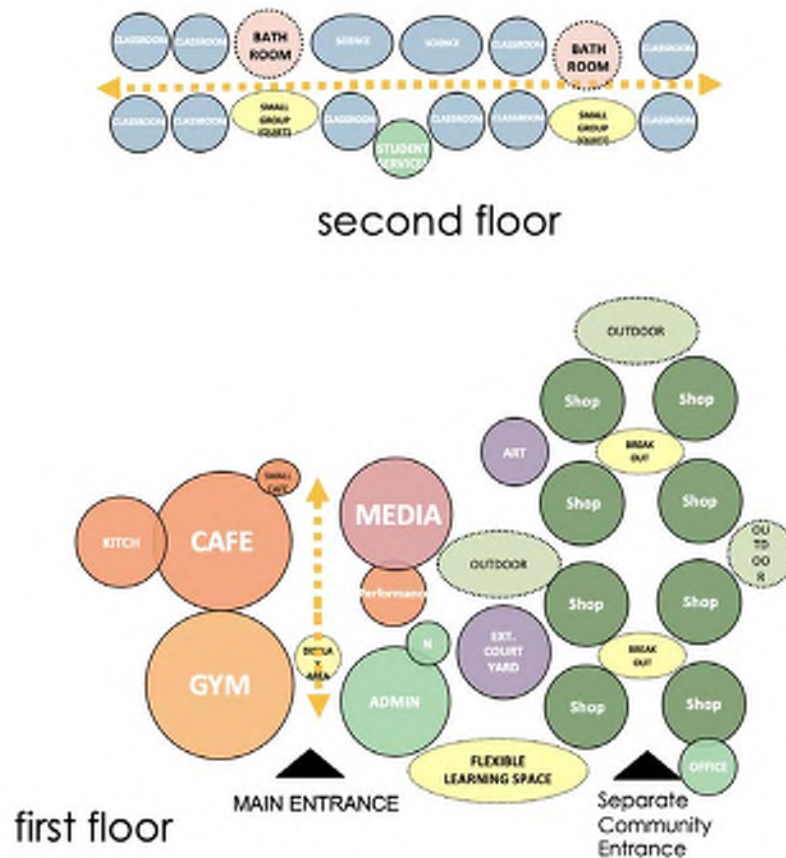
### Diagram Attributes:

- Main entrance area with access to Administration, Nurse's Office, and an area for display in the main lobby area
- Public spaces off the main entry that include the gym, cafeteria, and kitchen
- A small café area for students who don't want to be in the large and loud cafeteria
- A Media Center that serves as a flexible learning space right up front as a face for the building with an adjacent performance area
- The ability to see a lot of activity going on in the entry area, including an enclosed courtyard behind, like the West Bridgewater Middle High School. Something that is open and gets kids outside
- A separate community entry with access to some of the public shop spaces
- Outdoor areas associated with some of the shops
- A multi-purpose art room that is connected to Graphics and other shops that want to utilize art
- Academic areas that are small clusters of classrooms and including Science Rooms and small group areas where quiet work can be done
- A Student Services area that is adjacent to the academic areas and acts as a second administrative suite



## Whole School Diagram Two

This Whole School adjacency diagram was created by a small group of workshop participants with the assistance of a member of the architectural design team to communicate their ideas about spatial adjacencies for the renovated and/or new South Shore Tech facility.

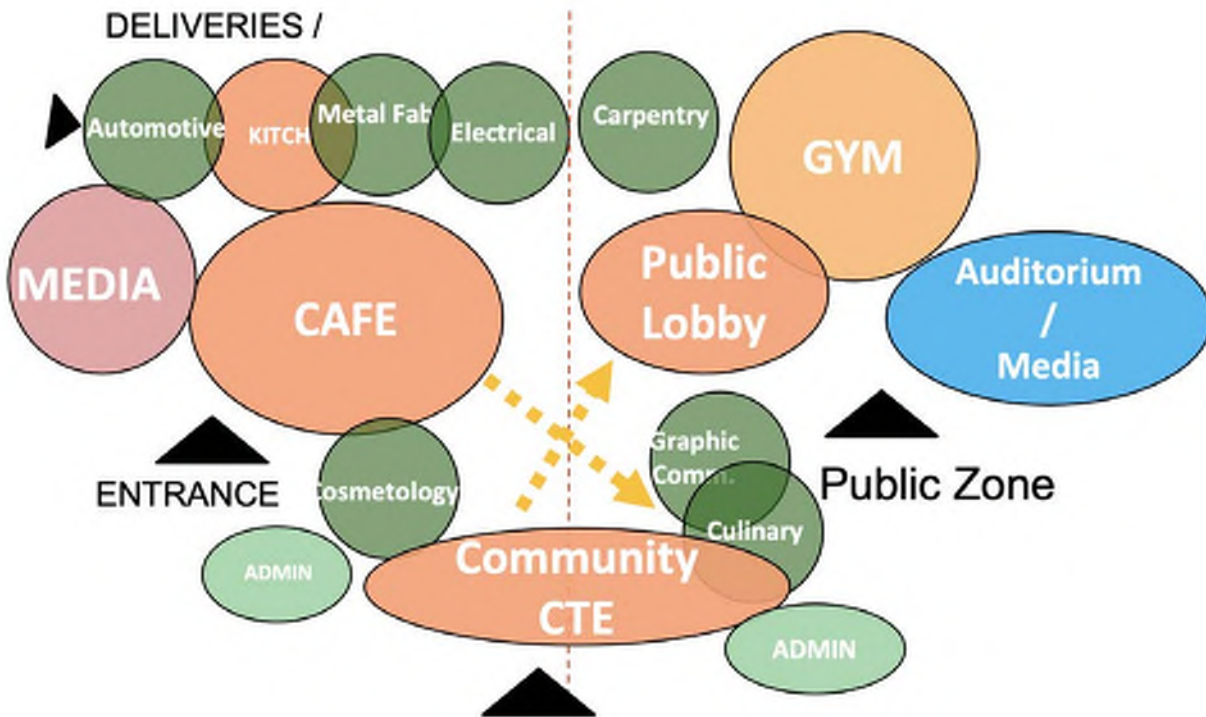


### Diagram Attributes:

- The group is not sure about academic and career tech integration and what the real benefits and value are. In this diagram academics and vocational are not shown close together
- There could be a potential 3-D connection between CTE on first floor and academics on second floor
- A “heart of school” near main entry, maybe the Student Commons
- Separate customer entry that is limited in how far you can get into the school
- A school store for not just Culinary and Cosmetology, but shops like Graphics, that makes and prints things, and Horticulture with plants to sell
- Grouping shops in career clusters, such as MET and Metal Fab being next to each other because they share a lot of equipment and resources, and the construction shops
- Separation between academic and public areas

## Whole School Diagram Three

This Whole School adjacency diagram was created by a small group of workshop participants with the assistance of a member of the architectural design team to communicate their ideas about spatial adjacencies for the renovated and/or new South Shore Tech facility.

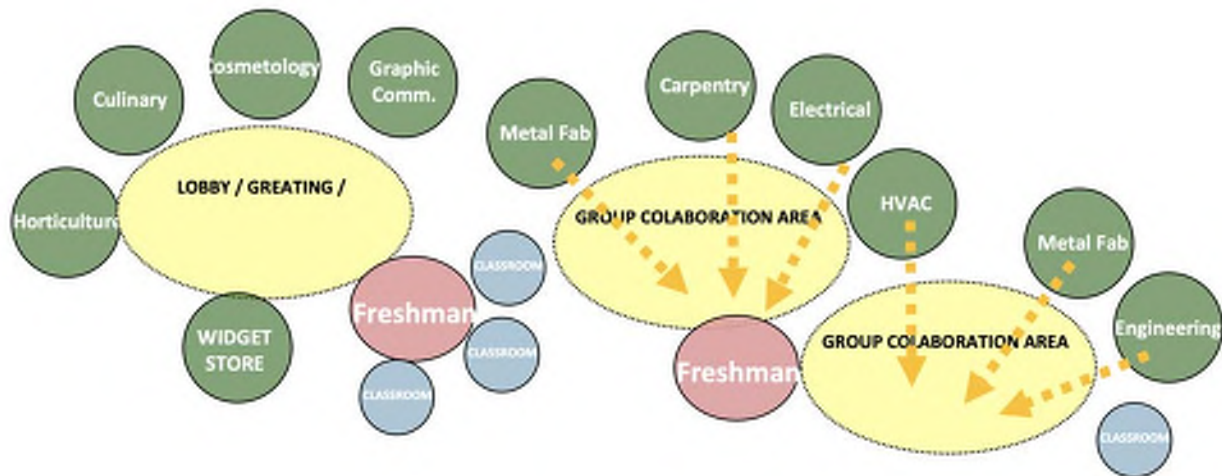


### Diagram Attributes:

- Three different access points
- Multiple hearts of the school, including a café area near main entry
- The ability to foster safe public access
- Public and academic zones not completely separated, but with the ability to shut off academic areas in the evening, but still open to each other
- Access to various shops that have a public face
- Automotive toward edge of access
- High bay shops with great access to delivery
- Gym and Auditorium situated within the public area
- A “universal shop” concept with each shop having the basics: Related Classroom, Toilets and Offices
- There is concern about creating Career Clusters because there was a desire to be able to foster collaboration within CTE programs that are outside of the traditional Cluster groupings. Since the school is disproportionately CTE programs that fall under the Construction Cluster, the group thought that this would create uneven cluster distribution

## CTE Area Diagram

This CTE Area adjacency diagram was created by a small group of workshop participants with the assistance of a member of the architectural design team to communicate their ideas about spatial adjacencies for the renovated and/or new South Shore Tech facility.



### Diagram Attributes:

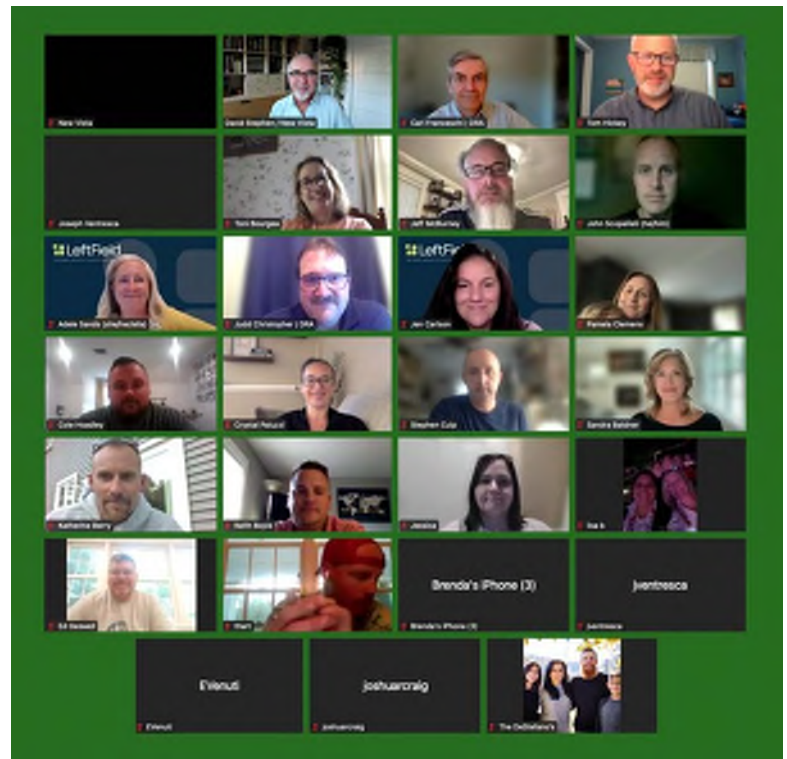
- A conversation about group collaboration areas that are designed around the CTE programs was explored:
  - Potential area for project base learning where various trades come together to collaborate and work through a problem
  - Simulating a more real-world scenario where trades need to work through sequencing of work and integration of other trades
  - A competitive, school spirited component to it as well such as in-school Halloween Haunted house where students from various CTE programs come together to create a Halloween scene. The culinary student could provide the complimentary "Treat"
  - A desire to keep the Freshman class near this collaboration area

# SOUTH SHORE Technical High School

## Workshop Participant List

- |                          |                |
|--------------------------|----------------|
| 1. Sandy Baldner         | Administration |
| 2. Katie Berry           | Administration |
| 3. Keith Boyle           | Administration |
| 4. Tom Hickey            | Administration |
| 5. Crystal Paluzzi       | Administration |
| 6. John Scopelleti       | Administration |
| 7. Lisa Bellantoni       | Teacher        |
| 8. Toni Bourgea          | Teacher        |
| 9. Josh Craig            | Teacher        |
| 10. Steve Culp           | Teacher        |
| 11. Tom Hart             | Teacher        |
| 12. Shaun Hennessy       | Teacher        |
| 13. Cole Hoadley         | Teacher        |
| 14. Jeff McBurney        | Teacher        |
| 15. Carolyn Rutkowski    | Teacher        |
| 16. Joseph Ventresca     | Teacher        |
| 17. Pamela Clemens       | Parent         |
| 18. Adriana Destefano    | Parent         |
| 19. Jessica Franceschini | Parent         |
| 20. Ed Geswell           | Parent         |
| 21. Lisa Humpreys        | Parent         |
| 22. Brenda Miele         | Parent         |
| 23. Erin Venuti          | Parent         |
| 24. Nalissa Blanc        | Student        |

- Carl Franseschi      DRA
- Sarah Carda          DRA
- Judd Christopher      DRA
- Jen Carlson            LeftField
- Adele Sands            LeftField
- Lynn Stapleton        LeftField
- David Stephen        New Vista









October 12, 2023  
J0863-16-01

Mr. R. Judd Christopher  
Drummeys Rosane Anderson, Inc.  
Howard Clock Building  
260 Charles Street, Studio 300  
Waltham, Massachusetts 02453

Re: Phase I Environmental Site Assessment  
South Shore Technical High School  
476 Webster Street  
Hanover, Massachusetts

Dear Mr. Christopher,

Attached is our Environmental Site Assessment (ESA) report for the above referenced property. Our ESA report was performed in general accordance with ASTM Standard Practice E1527-21 (the "all appropriate inquiry" standard).

We appreciate the opportunity to assist you. Should you have any questions regarding the report, please do not hesitate to call us.

Very truly yours,  
O'Reilly, Talbot & Okun Associates, Inc.

  
Bruce Nickelsen, LSP  
Associate

# TABLE OF CONTENTS

<b>1.0 SUMMARY</b> .....	<b>1</b>
<b>2.0 INTRODUCTION</b> .....	<b>1</b>
2.1 PURPOSE.....	1
2.2 SCOPE OF SERVICES.....	2
2.3 SIGNIFICANT ASSUMPTIONS.....	2
2.4 LIMITATIONS, EXCEPTIONS, TERMS & CONDITIONS .....	3
2.5 USER RELIANCE .....	3
<b>3.0 PROPERTY DESCRIPTION</b> .....	<b>3</b>
3.1 LOCATION AND LEGAL DESCRIPTION.....	3
3.2 PROPERTY AND VICINITY GENERAL CHARACTERISTICS.....	3
3.3 CURRENT USE OF THE PROPERTY .....	4
3.5 CURRENT USES OF ADJOINING PROPERTIES .....	4
3.6 CURRENT POTABLE WATER SOURCE AND SEWAGE DISPOSAL .....	4
3.7 CURRENT BUILDING HEATING AND COOLING SYSTEMS.....	5
<b>4.0 USER PROVIDED INFORMATION</b> .....	<b>5</b>
<b>5.0 PRIOR REPORTS</b> .....	<b>5</b>
<b>6.0 RECORDS REVIEW</b> .....	<b>5</b>
6.1 STANDARD ENVIRONMENTAL RECORDS SOURCES.....	5
6.2 ADDITIONAL ENVIRONMENTAL RECORDS SOURCES .....	6
6.3 REVIEW OF POTENTIAL VAPOR ENCROACHMENT .....	7
6.4 PHYSICAL SETTING SOURCES.....	7
6.5 HISTORICAL USE INFORMATION ON THE SITE AND ADJOINING PROPERTIES ...	8
<b>7.0 RECONNAISSANCE</b> .....	<b>8</b>
7.1 METHODOLOGY AND LIMITING CONDITIONS .....	8
7.2 SITE SETTING AND OBSERVATIONS .....	9
7.2.1 Hazardous Substances and Petroleum Products.....	9
7.2.3 Odors .....	9
7.2.4 Pools of Liquid.....	9
7.2.5 Drums.....	9
7.2.6 Hazardous Substances and Petroleum Products Containers.....	9
7.2.7 Unidentified Substance Containers.....	9
7.2.8 PCBs .....	10
7.2.9 Interior Observations, Stains, Drains, Corrosion or Sumps. ....	10
7.2.11 Stained Soil or Pavement .....	10
7.2.12 Stressed Vegetation .....	10
7.2.13 Solid Waste .....	10
7.2.14 Waste Water.....	10
7.2.15 Wells.....	10
7.2.16 Septic Systems.....	10
<b>8.0 INTERVIEWS</b> .....	<b>11</b>
8.1 INTERVIEWS WITH OWNERS/OCCUPANTS/SITE MANAGER .....	11
8.2 INTERVIEWS WITH LOCAL GOVERNMENT AGENCIES.....	11
<b>9.0 FINDINGS</b> .....	<b>11</b>
<b>10.0 OPINION AND CONCLUSIONS</b> .....	<b>12</b>
<b>11.0 DEVIATIONS</b> .....	<b>12</b>
<b>12.0 ADDITIONAL SERVICES</b> .....	<b>12</b>
<b>13.0 ENVIRONMENTAL PROFESSIONAL STATEMENT</b> .....	<b>12</b>
<b>14.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS</b> .....	<b>13</b>
<b>15.0 LIST OF ACRONYMS</b> .....	<b>13</b>

## **FIGURES**

Figure 1 Site Locus  
Figure 2 Site Plan

## **APPENDICES**

Appendix A Terms and Conditions, Limitations  
Appendix B Site Photographes  
Appendix C User Questionnaire  
Appendix D EDR Regulatory Database Report  
Appendix E MassDEP Phase I Site Assessment Map  
Appendix F EDR Historical Information  
Appendix G Local File Information  
Appendix H MassDEP File Information

## 1.0 SUMMARY

O'Reilly, Talbot & Okun Associates, Inc. (OTO) has conducted a Phase I Environmental Site Assessment (ESA) of the South Shore Technical High School (SSTHS), located at 476 Webster Street in Hanover, Massachusetts (the "subject property"). Our assessment consisted of a records review, a reconnaissance, interviews, review of User provided information and preparation of this report.

The subject property is located within a residential neighborhood and according to Hanover town records, consists of 46.6 acres. It contains the school building, associated landscaped, athletic and vehicle parking areas and some wooded sections. The total building square footage is listed as 143,880 square feet, primarily single story, with limited 4,000 square foot upper floor space. The building is a steel frame slab on grade masonry building with no basement, and heated by public utility supplied natural gas. The SSTHS is served by public water and an on-site septic system. Five tight tanks receive discharges from floor drains.

Review of historical resources and information provided by the Key Site Manager indicate that the SSTHS was constructed in 1962 on former agricultural and wooded land. Two additions were added in 1972 and 1992.

The attached User Questionnaire indicates that the User is unaware of past chemical releases, environmental cleanups, or obvious indicators that point to the presence or likely presence of releases at the subject property. Based on our review of regulatory file information, no previously reported state-listed oil or hazardous material releases are known to have impacted soil, groundwater, or subsurface vapors on the subject property to levels of regulatory significance.

This assessment has revealed no evidence of recognized environmental conditions in connection with the property. As with many parcels, such as the subject property, the possible presence of undiscovered releases of oils or hazardous materials is a possibility that cannot be ruled out. As referred to in ASTM E1527-21 Standard Practice for Phase I ESAs, no ESA can wholly eliminate uncertainty regarding environmental matters in connection with a parcel of real estate.

## 2.0 INTRODUCTION

### 2.1 PURPOSE

A Phase I Environmental Site Assessment (ESA) was performed of the subject property, consisting of the South Shore Technical High School (SSTHS) at 476 Webster Street in Hanover, Massachusetts as further described in Section 3.0. The Phase I ESA was performed in general accordance with ASTM Standard Practice E1527-21 (the "all appropriate inquiry" standard, or the Standard) and our proposal to Drummey Rosane Anderson, Inc. dated August 2, 2023. The purpose of our Phase I ESA was to evaluate the history and current conditions of the subject property to identify Recognized

Environmental Conditions (RECs)<sup>1</sup>, historical Recognized Environmental Conditions (HRECs)<sup>2</sup>, controlled Recognized Environmental Conditions (CRECs)<sup>3</sup>, or significant data gaps<sup>4</sup>.

## 2.2 SCOPE OF SERVICES

The following tasks were undertaken:

- A review of User provided information, physical setting resources, historical records, and government records as described in the Standard.
- A reconnaissance following the procedures outlined in the Standard.
- An interview with the key site manager, and local officials as described in the Standard.
- Evaluation and preparation of this Phase I ESA report.

## 2.3 SIGNIFICANT ASSUMPTIONS

OTO performed the environmental record searches in accordance with current ASTM and industry practice. The data, findings, and conclusions presented in this Phase I ESA are based upon a search, review, and analysis of the documents and interviews as well as observations made during the reconnaissance.

OTO has relied upon information provided by the Key Site Manager for the preparation of this report. As defined in the ASTM standard, the Key Site Manager is the person or persons identified as having good knowledge of the uses and physical characteristics of the property. In this case, Mr. James Harding, the SSTHS Facility Director, was identified as the Key Site Manager and was interviewed and accompanied OTO during our Site Visit.

Conclusions reached regarding the conditions of the subject property do not represent a warranty that all areas within the property are of a similar quality as may be inferred from observable conditions and available history. As stated in the ASTM standard, no ESA can

---

<sup>1</sup> Recognized Environmental Condition (REC): (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. A de minimis condition (as defined) is not a recognized environmental condition.

<sup>2</sup> Historical RECs: a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.

<sup>3</sup> Controlled RECs: recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

<sup>4</sup> Significant Data Gap: a data gap that affects the ability of the environmental professional to identify a recognized environmental condition.



wholly eliminate uncertainty regarding potential environmental conditions in connection with a property. OTO's evaluation and analysis are intended to reduce, not eliminate, the potential for conditions that result in environmental risk for the end user of this report.

## 2.4 LIMITATIONS, EXCEPTIONS, TERMS & CONDITIONS

Our report was performed subject to limitations and exceptions outlined in the Standard, identified herein, and as attached in Appendix A. The contractual Terms and Conditions governing the agreement between OTO and Drummey Rosane Anderson, Inc. (Client) under which this report was prepared, are attached in Appendix A.

## 2.5 USER RELIANCE

This report documents the Phase I ESA of the subject property performed by OTO at the request of Drummey Rosane Anderson, Inc. and in general accordance with ASTM Standard E1527-21. The findings, opinions, and conclusions of this report are for the confidential and exclusive use of Drummey Rosane Anderson, Inc. Reliance on this report for any use or by parties other than those specifically stated is prohibited without the express written consent of OTO. Such use is at the sole risk of the user.

## 3.0 PROPERTY DESCRIPTION

A Locus Map based on the current United States Geological Survey (USGS) topographic map of the Cohasset, Hanover, Whitman and Weymouth, Massachusetts quadrangles is included as Figure 1. A subject property plan, based on an aerial photograph provided by Environmental Data Resources, Inc. and derived from the USDA/NAIP 2018 flight is provided as Figure 2. Photographs of the subject property taken during the site visit on September 28, 2023, are in Appendix B.

### 3.1 LOCATION AND LEGAL DESCRIPTION

The subject property is located within a residential neighborhood of Hanover as shown on Figure 2 and identified as parcel 10-19 within the Hanover real estate database. The parcel containing the subject property was acquired by Hanover on February 14, 1961, from the estate of Benjamin W. Ford. The deed reference is book 2833 page 0005 in the Plymouth County Registry of deeds.

### 3.2 PROPERTY AND VICINITY GENERAL CHARACTERISTICS

As shown on the Site Plan (Figure 2), the SSTHS building is located on the west-northwest portion of the subject site, along Webster Street with athletic fields behind and east of the school. Wooded portions of the property are located in the eastern and western most portions of the property.

The topography is shown on the USGS base map used to prepare Figure 1 and on online Town GIS mapping. The topography of the SSTHS is level at an elevation of approximately 118 feet above mean sea level (MSL) dropping by approximately 10 feet towards the east

and the athletic fields. Topography rises in the wooded eastern portion of the subject property to approximately 130 feet MSL. A small intermittent stream was observed on the east side of the athletic fields flowing towards the south. No groundwater flow studies were performed as part of this ESA. Generally, groundwater flow directions can be expected to follow topography and therefore would be expected to flow towards the intermittent stream on the eastern side of the athletic fields.

According to the Hanover Assessors Department GIS mapping and as shown on Figure 2, the neighborhood surrounding the SSTHS is zoned residential.

### 3.3 CURRENT USE OF THE PROPERTY

The subject property serves as a vocational technical high school with standard english, math, science and social science academic programs as well as the vocational education programs. The vocational programs consist of: allied health, automotive repair and body shop, carpentry, computer information technology, cosmetology, culinary arts, electrical, machine engineering technology (a machine shop), graphic communications, horticulture with a greenhouse, heating and air conditioning (HVAC) and metal fabrication.

The Key Site Manager and teachers at the various vocational programs indicated that there is no bulk storage of oils or potentially hazardous materials used in the vocational programs and that use of these materials is limited to small commercially sized containers. Examples of these products were motor oil, starter fluid and anti-freeze. A parts washer is used in the automobile mechanics program which is serviced periodically by Safety Kleen™. The auto mechanics program also has seven former in-ground hydraulic lifts which are now out of use and have been replaced with above ground lift systems.

### 3.4 DESCRIPTIONS OF ROADS AND IMPROVEMENTS

A copy of the SSTHS assessor card is attached in Appendix G. The total land area of the subject property is shown to be 46.6 acres in the Hanover Assessor database, with total building square footage of 143,880 square feet.

The SSTHS building consists of a primarily single story (with limited 4,000 square foot upper floor space) steel frame slab on grade masonry building with no basement. A copy of the Hanover Building Department print out which includes a floor plan is attached in Appendix G. Generally, academic classrooms are located in the western portion of the building and vocational laboratories are located in the eastern portion of the building.

### 3.5 CURRENT USES OF ADJOINING PROPERTIES

Property abutters are single-family or multifamily condominium residential properties.

### 3.6 CURRENT POTABLE WATER SOURCE AND SEWAGE DISPOSAL

The SSTHS is served by public water and an on-site septic system. The Key Site Manager indicated that floor drains in the maintenance garage, the greenhouse, and the cosmetology, automotive and collision repair shops are attached to tight tanks which are

emptied periodically by an outside contractor. Representatives of the Hanover Public Health Department indicated that the entire Town is served by public water and they were not aware of private water supply wells in the subject property vicinity. Review of the Massachusetts Department of Environmental Protection's (MassDEP's) well data base for domestic wells indicates approximately 25 domestic water supply wells in Hanover (<https://eeaonline.eea.state.ma.us/portal#!/search/welldrilling> ). Review of the addresses of these wells indicate none to be within 500 feet of the subject property. Review of MassGIS data indicates that the public water supply wells for the Hanover water supply system are more than a mile east of the subject property.

The Key Site Manager indicated that two non-potable water wells provide irrigation for the subject property grounds and athletic fields.

### 3.7 CURRENT BUILDING HEATING AND COOLING SYSTEMS

The SSTHS is heated by public utility supplied natural gas. A 10,000 gallon above ground storage tank (AST) as an auxiliary heat source was formerly located along the east side of the building. This AST was removed in June, 2021. The Key Site Manager indicated that we was not aware of past or current petroleum underground storage tanks (USTs) at the subject property.

## 4.0 USER PROVIDED INFORMATION

A user questionnaire (as identified in the ASTM E1527-21 standard) was completed by Mr. James Harding, the SSTHS Facility Directory who also served as the Key Site Manager and is attached in Appendix C. Relevant information from the User Questionnaire has been incorporated into the appropriate sections of this report.

## 5.0 PRIOR REPORTS

A Pre-visit data request asking for previous environmental assessments, registrations, permits or studies was submitted to the Town of Hanover through Drummey Rosane Anderson, Inc. prior to our visit as required by the ASTM standard. No prior reports were provided. Mr. James Harding, the SSTHS Facility Directory who also served as the Key Site Manager also indicated that he was not aware of such reports.

## 6.0 RECORDS REVIEW

### 6.1 STANDARD ENVIRONMENTAL RECORDS SOURCES

The Standard Environmental Records Sources identified in the ASTM Standard were reviewed for the subject property and vicinity using an Environmental Data Resources (EDR) database search. The radii searched for in these databases meets or exceeds the radii required in the ASTM Standard. A copy of the EDR report is attached in Appendix D.

### 6.1.1 Subject Property Information

A 1993 spill of approximately 30 gallons of waste oil at the subject property was found by the EDR data base search. OTO contacted the southeast region MassDEP office for a copy of the report, which is attached in Appendix H. The report indicates that an oil container fell off the back of a truck during construction. The environmental remediation company Clean Harbors performed spill clean up and the spill is listed as closed in the MassDEP database. No other spills or releases of oil or hazardous materials were listed for the subject property.

SSTHS was shown as a RCRA Conditionally exempt Small Quantity Generator (VSQG) in 2018 for ignitable and corrosive waste and methyl ethyl ketone (MEK).

A number of listings for asbestos removals at the subject property were included in the EDR report. The Key Site manager confirmed that the building has had asbestos removals and that the remaining asbestos insulation at the building is subject to an asbestos management plan.

### 6.1.2 Off-Site Information

Forty-two (42) locations were listed in the EDR data base report within the searched radius. These include locations with past releases of oils or hazardous materials, oil and/or hazardous waste generators, locations where asbestos and lead removals were performed and locations where current or past operations are cause for concern (such as gasoline stations and dry cleaners). Each of the listed spill locations was shown to have closed either by being listed as "closed" by MassDEP or shown to have a Permanent Solution and thus unlikely to impact subject property soil or groundwater.

Based on our review, no previously reported off-site listed oil or hazardous material releases are likely to have impacted soil, groundwater, or resulted in subsurface vapors on the subject property to levels of regulatory significance.

## 6.2 ADDITIONAL ENVIRONMENTAL RECORDS SOURCES

The MassDEP on-line Phase I Site Assessment Map of the subject property and vicinity was reviewed. A copy of the map is attached in Appendix E. The MCP has established reporting classifications for potential releases to soil and groundwater. Groundwater located within current or potential drinking water source areas is classified as RCGW-1. Current drinking water source areas are defined as areas:

1. Within a Zone II or Interim Wellhead Protection Area for a public water supply;
2. Within the Zone A of a Class A surface water body used as a public water supply;
- or
3. Within 500 feet of a private water supply well.

Potential drinking water source areas are defined as areas:

1. 500 feet or more from a public water supply line;

2. Within an area designated by a municipality specifically for the protection of groundwater quality; or
3. Within a Potentially Productive Aquifer (PPA) that has not been excluded as a Non-Potential Drinking Water Source Area (NPDWSA).

Conversations with representatives of the Hanover Public Health Department and OTO's review of MassDEP wells data as described in Section 3.6 indicate that no private water supply wells are known to be within 500 feet of the subject property and that the town is served from public water supply wells located more than a mile from the Site. The subject property is not located within a Zone II for a public water supply, within a Zone A or within 500 feet of a private water supply well. Additionally, the subject property is not located within a municipal aquifer protection area or within a PPA. Based on this information, site groundwater is likely classified as RCGW-2.

Soil located within 500 feet of residential property, residentially zoned property or within 500 feet of a school, playground, recreational area or park, or within a current or potential drinking water source area is classified as RCS-1. All other areas are classified as RCS-2. The subject property is the location of a school and is adjacent to residential properties. As such, subject property soils would likely be RCS-1.

Applicable soil and groundwater classifications should be revisited by a Licensed Site Professional (LSP) in the future if exceedances of any reporting standard are detected.

### 6.3 REVIEW OF POTENTIAL VAPOR ENCROACHMENT

The ASTM standard indicates that the potential for vapor intrusion impacts from on-site or off-site sources needs to be evaluated as part of the ESA. To do this we review release locations listed in the Standard Environmental Records sources for the subject property and within approximately 500 feet in the inferred upgradient groundwater flow direction. While releases were identified within this search radius, each has been closed based on our regulatory review. As such, we have found no regulatory file information indicating a potential vapor encroachment risk from identified releases.

### 6.4 PHYSICAL SETTING SOURCES

The United States Geological Survey (USGS) topographic maps for the Cohasset, Hanover, Whitman and Weymouth, Massachusetts Quadrangles, each dated 2018 were reviewed and used to prepare the Locus (Figure 1). The map displays the general surroundings of the subject property.

The USGS map of the site vicinity is the only physical setting source required to be reviewed to satisfy the ASTM Standard. Other physical setting sources were reviewed including aerial imagery and GIS mapping as described in Section 6.5.



## 6.5 HISTORICAL USE INFORMATION ON THE SITE AND ADJOINING PROPERTIES

Historical information and findings for this report were gathered and cross-referenced using ASTM E1527-21 standard historical sources. OTO reviewed the Historical Aerial Photograph Images, Historical Topographic Maps, and Street Directories attached in Appendix F. Sanborn Fire Insurance Map coverage for the subject property was not available. The aerial photographs show the site and vicinity in approximate 10 year intervals or less from 1952 to 2018. The topographic maps show the site and vicinity in approximate 10 year intervals or less from 1888 to 2018. Information from our interviews and property record information available in the Hanover Town Hall (Appendix G) were incorporated into the historical use review for this report. Additionally, the Key Site Manager, James Harding and his staff were interviewed.

The following information was available from the referenced historical sources:

- Subject Property: Town records indicate the SSTHS was constructed in 1962. This construction date is supported by the aerial photographs, which show the subject property as undeveloped in 1960, with the school present by 1969. Two additions have been added to the school. What is referred to as the “science wing” was added to the northeast corner of the school in 1972. A second addition referred to as the “300 Wing” was added to the southwestern portion of the building in 1992. Previous aerial photographs show the subject property as agricultural fields and wooded. The topographic maps show what may be a residence at the subject property in the 1930’s and 1940’s. No additional relevant information was derived from the street directories.
- Adjoining Properties and Surrounding Area: Review of the historic records show a gradual increase in residential development in surrounding properties over time. Extensive wooded property east of the site becomes residentially developed by the mid-1990’s.

## 7.0 RECONNAISSANCE

### 7.1 METHODOLOGY AND LIMITING CONDITIONS

OTO performed the Reconnaissance on September 28, 2023 and was accompanied by Mr. James Harding, the SSTHS Facility Director, who also served as the Key Site Manager. Our reconnaissance was performed following guidelines presented in Section 9.0 of ASTM Standard E1527-21. Each of the vocational instructional areas were visited. Since class was in session during our visit, classrooms and administrative offices were viewed from hallways. The maintenance building, adjacent to the athletic fields, was also visited. Photographs taken during the visit are attached in Appendix B.

At the time of the visit, the weather was clear, and the temperature was approximately 75 degrees Fahrenheit. OTO walked the interior and exterior portions of the school, walked the approximate site boundary and traversed the wooded eastern portion of the site.

## 7.2 SITE SETTING AND OBSERVATIONS

Our Site visit was performed following guidelines presented in Section 9.0 of ASTM Standard E1527-21. The observations noted in the following sections were made.

### 7.2.1 Hazardous Substances and Petroleum Products

The primary instructor in the automotive mechanics section of the school indicated that they generate approximately 100 gallons of waste oil per year which is stored in two 55 gallon drums located on secondary containment pads. Less than 100 gallons of anti freeze and a small number of automobile engine filters are generated. A parts washer located in the automobile mechanics section is serviced by Safety Kleen who also removes the waste oil, antifreeze and filters. Cutting oils and lubricants used in the metal machining shop are stored in 55 gallon drums and recycled as needed by Safety Kleen. Additional petroleum products, solvents and cleaning products are limited to commercially sized containers stored in fire resistant cabinets.

### 7.2.2 Storage Tanks

A double walled 275 gallon above ground storage tank (AST) is located in the green house for heat generation. Additionally, two 100 gallon diesel ASTs are located in the maintenance garage. No underground storage tanks (USTs) were observed during our visit.

### 7.2.3 Odors

No strong, pungent or noxious odors were noted.

### 7.2.4 Pools of Liquid

No pools of liquid were observed during our visit.

### 7.2.5 Drums

One waste oil and one used antifreeze storage drum were observed in an interior storage space on secondary containment pads.

### 7.2.6 Hazardous Substances and Petroleum Products Containers

No hazardous substance or petroleum product storage containers were observed other than those mentioned in Section 7.2.1.

### 7.2.7 Unidentified Substance Containers

No unidentified substance containers were observed.

#### 7.2.8 PCBs

An electrical transformer is located on the exterior southwest side of the subject property inside a chain link fence. No labels indicating PCB content were observed on the transformer and no staining was observed on the associated concrete pad. Transformers have historically contained PCBs. Without explicit knowledge that the observed transformer does not contain PCBs, their presence cannot be ruled out. Except for the above-mentioned transformer, no other electrical or hydraulic equipment known or likely to contain PCBs were observed during our reconnaissance.

Evaluation of fluorescent light ballasts, caulk, paint, or other materials that may contain PCBs, and are located inside and/or are part of a building structure is outside the scope of this assessment.

#### 7.2.9 Interior Observations, Stains, Drains, Corrosion or Sumps.

No significant stains, drains, corrosion or sumps were observed at the subject property.

#### 7.2.10 Pits, Ponds or Lagoons

No pits, ponds or lagoons were observed at the subject property.

#### 7.2.11 Stained Soil or Pavement

No stained soil or pavement was observed at the subject property.

#### 7.2.12 Stressed Vegetation

No stressed vegetation was identified at the subject property.

#### 7.2.13 Solid Waste

No solid waste disposal was observed at the subject property.

#### 7.2.14 Waste Water

No waste water or other liquid was observed discharging to ditches, drains, or wetland areas during our visit.

#### 7.2.15 Wells

No wells were observed within the subject property limits. As described in Section 3.6, the subject property and surrounding neighborhood are served by public water. Two irrigation wells are located at the subject property.

#### 7.2.16 Septic Systems

The subject property is served by a septic system as described in Section 3.6.

## **8.0 INTERVIEWS**

### **8.1 INTERVIEWS WITH OWNERS/OCCUPANTS/SITE MANAGER**

An interview with Mr. James Harding, the SSTHS Facility Director, who also served as the Key Site Manager was conducted on September 28, 2023 during our visit to the property. Information provided by Mr. Harding has been incorporated into the appropriate sections of this report.

### **8.2 INTERVIEWS WITH LOCAL GOVERNMENT AGENCIES**

Available information on the subject property was collected on September 28, 2023 during visits to the Hanover Fire Department and Town Hall. Offices visited in the Town Hall included the Health Department, the Department of Public Works (DPW), Planning and Zoning, Conservation, the Assessors Department and the Building Department. This information was used to develop a history of the subject property as summarized in Section 6.5 of this report. Copies of information from the Fire Department, Building and Assessors Departments for the subject property are included in Appendix G.

A file for the SSTHS was provided by the Fire Department and contained specifications for the 10,000 gallon AST dated 1994 and information indicating that it was removed in 2021. A Fire Department representative indicated that the school is inspected periodically by the Fire Prevention officer.

Records in the Health Department file for the SSTHS included information about installation of the five tight tanks, a 1992 storm water drainage plan and septic system upgrades.

## **9.0 FINDINGS**

A Phase I Environmental Site Assessment of the South Shore Technical High School (SSTHS) located at 476 Webster Street in Hanover, Massachusetts was conducted by OTO. Our assessment consisted of a records review, a reconnaissance, interviews, review of User provided information and preparation of this report.

The subject property is located within a residential neighborhood and according to Hanover town records, consists of 46.6 acres. The total building square footage is listed as 143,880 square feet, primarily single story, with limited 4,000 square foot upper floor space. The building is a steel frame slab on grade masonry building with no basement, heated by public utility supplied natural gas. The SSTHS is served by public water and an on-site septic system. Five tight tanks receive discharges from floor drains.

Review of historical resources and information provided by the Key Site Manager indicate that the SSTHS was constructed in 1962 on former agricultural and wooded land. Two additions were added in 1972 and 1992.

The attached User Questionnaire indicates that the User is unaware of past chemical releases, environmental cleanups, or obvious indicators that point to the presence or likely presence of releases at the subject property. Based on our review of regulatory file information, no previously reported state-listed oil or hazardous material releases are known to have impacted soil, groundwater, or subsurface vapors on the subject property to levels of regulatory significance.

## **10.0 OPINION AND CONCLUSIONS**

O'Reilly, Talbot & Okun Associates, Inc. (OTO) have performed a Phase I Environmental Site Assessment (ESA) of the subject property in general conformance with the scope and limitations of ASTM Standard E1527-21. Exceptions to, or deletions from this practice are described in Sections 2.4 and 10.0 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

As with many parcels, such as the subject property, the possible presence of undiscovered releases of oils or hazardous materials is a possibility that cannot be ruled out. As referred to in ASTM E1527-21 Standard Practice for Phase I ESAs, no ESA can wholly eliminate uncertainty regarding environmental matters in connection with a parcel of real estate.

## **11.0 DEVIATIONS**

We are not aware of significant deletions from the ASTM E1527-21 practice used to prepare this report. Historical records, databases, and other information reviewed or provided as part of this assessment may contain data gaps or data failures.

## **12.0 ADDITIONAL SERVICES**

No additional services outside of the ASTM E1527-21 Standard Practices were performed in completing this report.

## **13.0 ENVIRONMENTAL PROFESSIONAL STATEMENT**

Bruce H. Nickelsen declares that, to the best of his professional knowledge and belief, he meets the definition of Environmental Professional as defined in Part 312.10 of 40 CFR. He has the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



## 14.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Geologist Bruce Nickelsen is an Associate at OTO and has been conducting environmental assessments and managing remediation projects since 1986. His work frequently includes hydrogeological and remedial characterizations. He also has conducted many pre-transaction environmental assessments on commercial, industrial and residential properties. Mr. Nickelsen has been a Licensed Site Professional (LSP) in Massachusetts since the inception of the privatized system in 1994. He received his Bachelors degree in Geology from Dartmouth College in 1979 and a Masters degree in Geology from SUNY Binghamton in 1983.

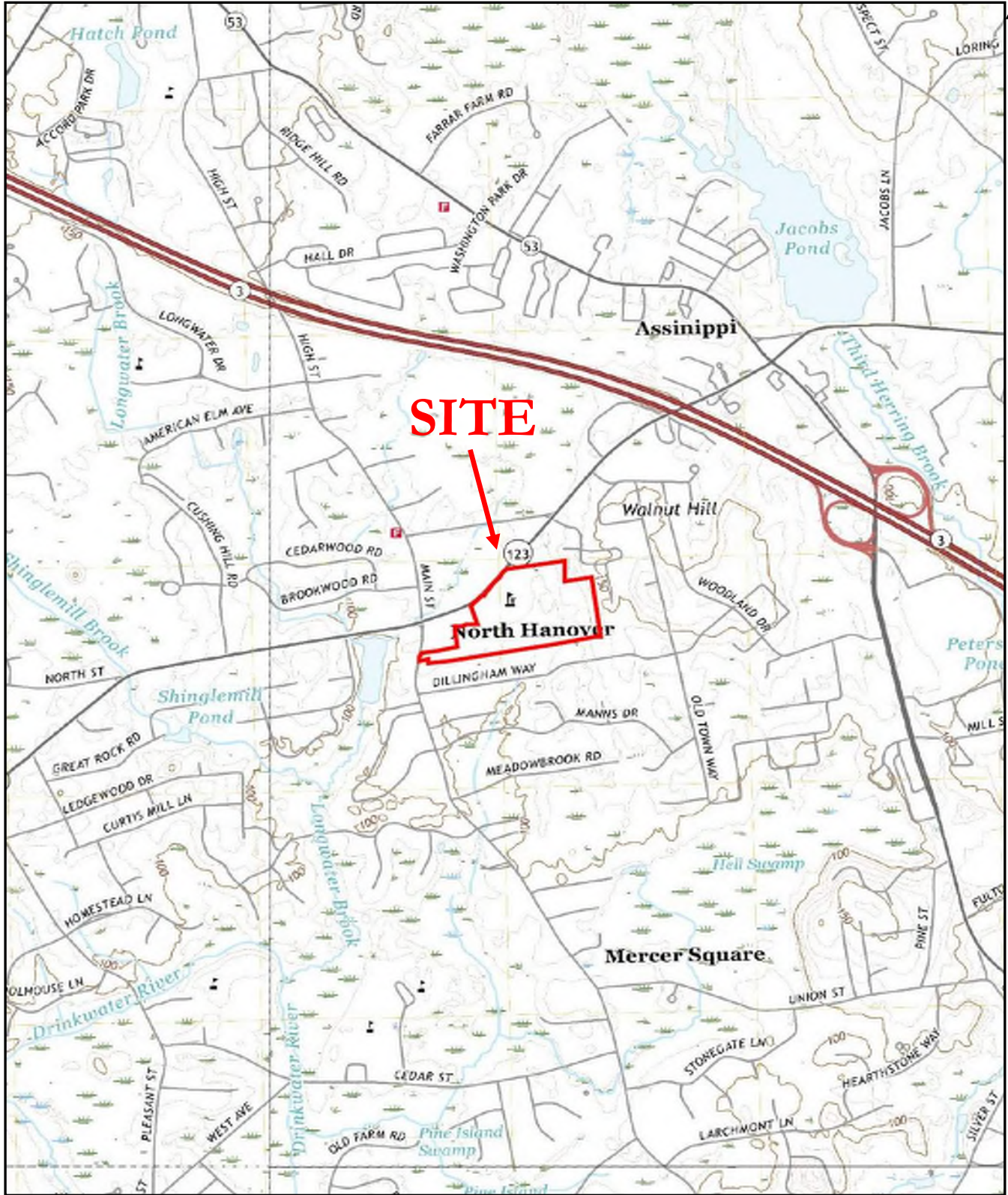
## 15.0 LIST OF ACRONYMS

AST	Above ground Storage Tank
AUL	Activity and Use Limitation
BMP	Best Management Practices
CMR	Code of Massachusetts Regulations
CERCLA	Comprehensive Environmental Response, Compensation, and Liability ACT
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability ACT Information System
DEPNFA	No further action is necessary per MassDEP
EPA	U.S. Environmental Protection Agency
EPH	Extractable petroleum hydrocarbons
ESA	Environmental Site Assessment
HREC	Historical Recognized Environmental Conditions
LSP	Licensed Site Professional
MassDEP	Massachusetts Department of Environmental Protection
MassGIS	Massachusetts Geographic Information System
MCP	Massachusetts Contingency Plan
MGL	Massachusetts General Laws
MGP	Manufactured gas plant
NHESP	Natural Heritage & Endangered Species Program
NOI	Notice of Intent
NPL	National Priority List
NSR	No Significant Risk
OHM	Oil and/or Hazardous Materials
OTO	O'Reilly, Talbot & Okun Associates, Inc.
PAHs	Polycyclic aromatic hydrocarbons
PCBs	Polychlorinated biphenyls
RAO	Response Action Outcome
RC	Reportable Concentration
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Conditions
RTN	Release Tracking Number
SQG	Small Quantity Generator
TSDF	Treatment, Storage and Disposal Facilities
TCLP	Toxicity Characteristics Leaching Procedure

UST            Underground Storage Tank  
VSQG        Very Small Quantity Generator  
WPA           Wetlands Protection Act



# FIGURES



Locus Map Based on USGS Topographic Map of the Cohasset, Habover, Whitman and Weymouth, Massachusetts Quadrangles, each dated 2018.

<p><b>O'REILLY, TALBOT &amp; OKUN ASSOCIATES, INC.</b></p> <p>Job No. 863-16-01</p>	<p align="center"><b>SITE LOCUS</b></p> <p align="center"><b>SOUTH SHORE TECHNICAL HIGH SCHOOL</b></p> <p align="center"><b>HANOVER, MASSACHUSETTS</b></p> <p>DATE: October, 2023</p> <p align="right">FIGURE NO.: 1</p>
---	--





Base photograph based on 2018 USDA/ NAIP Department Data Base provided by EDR.

***O'REILLY, TALBOT & OKUN***  
***ASSOCIATES, INC.***

Job No. 863-16-01

**SITE PLAN**

**SOUTH SHORE TECHNICAL HIGH SCHOOL**  
**476 WEBSTER STREET, HANOVER, MASSACHUSETTS**

DATE: OCTOBER, 2023

FIGURE NO.: 2



APPENDIX A

## LIMITATIONS

1. Our report does not present scientific certainties, but rather our professional opinions on the data obtained through our assessment. Our report was prepared for the exclusive benefit of our client and its mortgage lender. Reliance upon the report and its conclusions is not made to third parties or future property owners. We would be pleased to discuss extension of reliance to third parties through execution of a written contract with such parties.
2. The observations presented in this report were made under the conditions described herein. The conclusions presented in this report were based solely upon the services described in the report and not on scientific tasks or procedures beyond the scope of the project or the time and budgetary constraints imposed by the client. The work described in this report was carried out in accordance with the contract Terms and Conditions.
3. In preparing the report, O'Reilly, Talbot, Okun & Associates, Inc. relied on certain information provided by state and local officials and other parties referenced herein, and on information contained in prior reports. Although there may have been some degree of overlap in the information provided by these sources, O'Reilly, Talbot, Okun & Associates, Inc. did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this assessment.
4. Observations were made of the subject property and of the structures as indicated within the report. Where access to portions of the property, areas or to structures was unavailable or limited, we render no opinion as to the presence of hazardous materials or oil, or to the presence of indirect information relating to hazardous materials or oil in that portion of the property. In addition, we render no opinion as to the presence of hazardous materials or oil, where direct observations of portions of the property were obstructed by objects or coverings on or over these surfaces.
5. Unless otherwise specified in the Report, we did not perform testing or analyses to evaluate background conditions or determine the presence or concentration of asbestos at or in the environment at the subject property.
6. The purpose of this Report was to assess the physical characteristics of the subject property with respect to the presence of hazardous material or oil in soil or groundwater. No specific attempt was made to check on the compliance of present or past owners or operators of the site with federal, state, or local laws and regulations, environmental or otherwise.

## TERMS & CONDITIONS OF ENGAGEMENT

THESE TERMS AND CONDITIONS AND THE "PROPOSAL" DATED AUGUST 2, 2023 SUBMITTED BY O'REILLY, TALBOT & OKUN ASSOCIATES, INC. ("CONSULTANT") TO DRUMMEY ROSANE ANDERSON, INC. ("CLIENT"), MAKE UP THE "AGREEMENT" BETWEEN CLIENT AND THE CONSULTANT.

1. SERVICES AND STANDARD OF CARE: THE SERVICES REFERENCED IN OUR PROPOSAL DATED AUGUST 2, 2023 BY CONSULTANT UNDER THIS AGREEMENT WILL BE CONDUCTED IN A MANNER CONSISTENT WITH THAT LEVEL OF CARE AND SKILL ORDINARILY EXERCISED BY MEMBERS OF THE PROFESSION CURRENTLY PRACTICING IN THE SAME LOCALITY UNDER SIMILAR CONDITIONS. NO OTHER REPRESENTATION, EXPRESSED, OR IMPLIED, AND NO WARRANTY OR GUARANTY IS INCLUDED OR INTENDED IN THIS AGREEMENT, OR IN ANY REPORT, OPINION, DOCUMENT, OR OTHERWISE.
2. GOVERNING LAW, SEVERABILITY AND DISPUTE RESOLUTION: THIS AGREEMENT SHALL BE GOVERNED AND ENFORCEABLE IN ACCORDANCE WITH THE LAWS OF MASSACHUSETTS. ANY ELEMENT OF THIS AGREEMENT LATER HELD TO VIOLATE A LAW OR REGULATION SHALL BE DEEMED VOID, AND ALL REMAINING PROVISIONS SHALL CONTINUE IN FORCE. TO RESOLVE CONFLICTS THAT ARISE IN CONNECTION WITH THE CONSULTANT'S SERVICES, THE CLIENT AND THE CONSULTANT AGREE THAT DISPUTES BETWEEN THEM ARISING OUT OR RELATED TO THIS AGREEMENT SHALL BE SUBMITTED TO NONBINDING MEDIATION.
3. ASSIGNMENT: NEITHER PARTY TO THIS AGREEMENT SHALL ASSIGN ITS DUTIES AND OBLIGATIONS HEREUNDER WITHOUT PRIOR WRITTEN CONSENT OF THE OTHER PARTY, EXCEPT THAT CONSULTANT MAY USE THE SERVICES OF PERSONS AND ENTITIES NOT IN ITS EMPLOY, WHEN IT IS NECESSARY OR CONSULTANT DEEMS APPROPRIATE. SUCH PERSONS AND ENTITIES MAY INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO; SURVEYORS, SPECIALTY CONSULTANTS, DRILLING CONTRACTORS, AND TESTING LABORATORIES.
4. TERMINATION: CLIENT MAY TERMINATE THIS AGREEMENT WITHOUT PENALTY UPON SEVEN (7) CALENDAR DAYS WRITTEN NOTICE TO CONSULTANT, PROVIDED, THAT CLIENT SHALL BE OBLIGATED PURSUANT TO THE TERMS HEREOF FOR ALL SERVICES PERFORMED AND OBLIGATIONS INCURRED BY CONSULTANT ON CLIENT'S BEHALF AS OF THE EFFECTIVE DATE OF TERMINATION. SUCH SERVICES SHALL INCLUDE THOSE RENDERED UP TO THE DATE OF TERMINATION, AS WELL AS THOSE REASONABLE COSTS ASSOCIATED WITH THE TERMINATION ITSELF, SUCH AS DEMOBILIZATION. CONSULTANT MAY TERMINATE THIS AGREEMENT UPON SEVEN (7) CALENDAR DAYS WRITTEN NOTICE TO CLIENT OF NON-PAYMENT OF INVOICES WITHIN THE FORTY-FIVE (45) DAY PERIOD DESCRIBED IN ARTICLE 5 OF THIS AGREEMENT. IN THE EVENT OF TERMINATION FOR NON-PAYMENT OF INVOICES, CLIENT WILL BE RESPONSIBLE FOR ALL REASONABLE TERMINATION COSTS INCURRED BY CONSULTANT.
5. PAYMENT: PAYMENT IS DUE UPON INVOICE PRESENTATION AND NO LATER THAN FORTY-FIVE (45) DAYS FROM INVOICE DATE. THE UNPAID BALANCE AFTER 45 DAYS FROM THE INVOICE DATE WILL BE SUBJECT TO A FINANCE CHARGE OF 1-1/2 PERCENT PER MONTH, OR THE MAXIMUM LAWFUL ANNUAL INTEREST RATE, WHICHEVER IS LESS. ANY OBJECTION TO AN INVOICES OR PORTION THEREOF MUST BE MADE BY THE CLIENT, IN WRITING, WITHIN 14 DAYS OF INVOICE PRESENTATION OR THE

OBJECTION WILL BE WAIVED. THE UNPAID BALANCE AFTER 90 DAYS OF INVOICE PRESENTATION WILL BE SUBJECT TO COLLECTION CHARGES WHICH MAY INCLUDE REASONABLE ATTORNEY'S FEES, COURT COSTS, CONSULTANT EXPENSE AND PROFESSIONAL TIME AT STANDARD RATES SPENT IN CONNECTION WITH A COLLECTION ACTION. CONSULTANT HAS THE OPTION TO SUSPEND WORK ACTIVITIES UNDER THIS AGREEMENT FOR NONPAYMENT OR LATE PAYEMENT OF INVOICES SEVEN (7) CALENDAR DAYS AFTER PROVIDING NOTICE TO CLIENT. SUCH SUSPENSION MAY CONTINUE AT THE CONSULTANT'S DISCRETION, WITHOUT CONSEQUENCE, UNTIL PAYMENT IN FULL FOR OUTSTANDING INVOICES IS RECEIVED.

6. ESCALATION: IF THE SERVICES DESCRIBED IN THE PROPOSAL REQUIRE LONGER THAN 12 MONTHS TO COMPLETE, THEN THE CONSULTANT SHALL HAVE THE OPTION TO INCREASE THE PROJECT FEE SO AS TO COMPENSATE FOR ITS INCREASED COSTS DURING THE TERM OF THE PROJECT ON OR AFTER THE PROPOSAL'S ANNIVERSARY DATE. THE INCREASE IN FEE WILL BE AFFECTED BY THE SUBSTITUTION OF THE CONSULTANT'S THEN CURRENT STANDARD FEE SCHEDULE IN PLACE OF THE FEE SCHEDULE ORIGINALLY INCLUDED WITH THE PROPOSAL. ONLY THE PREVIOUSLY UNBILLED PORTION OF THE FEE WILL BE MODIFIED BY THE ESCALATION. THE CONSULTANT'S OPTION UNDER THIS SECTION MAY BE EXERCISED ON EACH SUBSEQUENT ANNIVERSARY OF THE PROPOSAL DATE UNTIL THE APPLICABLE SERVICES ARE COMPLETED.
7. RIGHT OF ENTRY: CLIENT SHALL PROVIDE TO CONSULTANT, AND ITS SUBCONTRACTORS, ACCESS TO ANY SITE NECESSARY TO PERFORM THE SCOPE OF SERVICES INCLUDED HEREUNDER. CLIENT UNDERSTANDS THAT CERTAIN TASKS, SUCH AS FIELD EXPLORATIONS, MAY CAUSE DAMAGE. THE CONSULTANT SHALL BE RESPONSIBLE FOR SUCH DAMAGE TO THE EXTENT CAUSED BY OUR NEGLIGENT ACTS.
8. UNDERGROUND STRUCTURES: IF SUBSURFACE EXPLORATIONS ARE PERFORMED, CONSULTANT WILL CONTACT THE APPROPRIATE GOVERNMENT AND/OR PRIVATE AGENCY WHICH LOCATES SUBSURFACE UTILITIES. CLIENT WILL PROVIDE CONSULTANT WITH ALL PLANS AND OTHER INFORMATION IN CLIENT'S POSSESSION OR CONTROL CONCERNING SITE UNDERGROUND STRUCTURES. ON SITES NOT OWNED BY CLIENT, WE WILL REQUEST UTILITY LOCATIONS AND OTHER PLANS FROM THE SITE OWNER OR OTHER PERSON(S) DESIGNATED BY CLIENT. CLIENT AGREES TO ACCEPT THE RISKS OF DAMAGE AND LOSS ASSOCIATED WITH REPAIR OR RESTORATION OF ANY IMPROVEMENTS NOT LOCATED ON PLANS AND OR IDENTIFIED IN INFORMATION PROVIDED TO CONSULTANT.
9. SAMPLES/MANIFEST: UNLESS OTHERWISE REQUESTED IN WRITING, CONSULTANT MAY DISPOSE OF ALL SOIL, ROCK, WATER AND ALL OTHER SAMPLES THIRTY (30) DAYS AFTER CONSULTANT SUBMITS ITS FINAL REPORT FOR THE SERVICES DESCRIBED IN THIS AGREEMENT. UNLESS OTHERWISE INDICATED, COSTS ASSOCIATED WITH TESTING, STORAGE AND DISPOSAL OF ANY SAMPLES WHICH COULD BE CONSIDERED HAZARDOUS UNDER STATE OR FEDERAL LAW OR REGULATIONS HAVE NOT BEEN INCLUDED IN COST ESTIMATES PROVIDED TO CLIENT. ARRANGEMENTS FOR TRANSPORT, TREATMENT, STORAGE, AND DISPOSAL (INCLUDING SAMPLES NOT SO REMOVED), WILL BE MADE BY CLIENT, AT CLIENT'S EXPENSE.

10. FIELD OBSERVATION SERVICES: CONSULTANT'S SERVICES WILL NOT INCLUDE THE DIRECTION OR SUPERVISION OF A CONTRACTOR OR SUBCONTRACTOR OTHER THAN THOSE CONTRACTED DIRECTLY BY CONSULTANT. OUR SERVICES DO NOT INCLUDE RESPONSIBILITY FOR HEALTH AND SAFETY PRACTICES PERFORMED BY OTHERS ON THE SITE.
11. JOBSITE SAFETY: NEITHER THE PROFESSIONAL ACTIVITIES OF THE CONSULTANT, NOR THE PRESENCE OF THE CONSULTANT OR ITS EMPLOYEES AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL IMPOSE ANY DUTY ON THE CONSULTANT, NOR RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE CONSULTANT AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE CLIENT AGREES THAT THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOBSITE AND WORKER SAFETY AND WARRANTS THAT THIS INTENT SHALL BE CARRIED OUT IN THE CLIENT'S CONTRACT WITH THE GENERAL CONTRACTOR. THE CLIENT ALSO AGREES THAT THE GENERAL CONTRACTOR SHALL DEFEND AND INDEMNIFY THE CLIENT, THE CONSULTANT AND THE CONSULTANT'S SUBCONSULTANTS. THE CLIENT ALSO AGREES THAT THE CONSULTANT AND THE CONSULTANT'S SUBCONSULTANTS SHALL BE MADE ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.
12. OWNERSHIP OF DOCUMENTS: ALL REPORTS, BORING LOGS, FIELD DATA, FIELD NOTES, LABORATORY TEST DATA, CALCULATIONS, ESTIMATES, AND OTHER DOCUMENTS PREPARED BY CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE SOLE PROPERTY OF CONSULTANT. CONSULTANT SHALL RETAIN RECORDS FOR A PERIOD OF THREE YEARS. AT CLIENT'S REQUEST, CONSULTANT WILL PROVIDE REASONABLE ACCESS OR COPIES OF SUCH DOCUMENTS. REPRODUCTION COSTS WILL BE AT CLIENT'S EXPENSE.
13. DISCLOSURE OF INFORMATION: CLIENT WILL INFORM CONSULTANT OF ALL INFORMATION IN CLIENT'S POSSESSION OR CONTROL RELEVANT TO THE PERFORMANCE OF CONSULTANT'S SERVICES. THIS INFORMATION INCLUDES, BUT IS NOT LIMITED TO ALL PRIOR SITE REPORTS, WASTE DISPOSAL MANIFESTS, PERMITS, AND ANALYTICAL DATA. CLIENT WILL INDEMNIFY, DEFEND, AND HOLD CONSULTANT HARMLESS OF AND FROM ALL LOSS OR DAMAGE RESULTING FROM ANY CLAIM THAT ARISES, IN WHOLE OR IN PART, AS A RESULT OF INFORMATION CLIENT FAILS TO DISCLOSE TO CONSULTANT.
14. THIRD PARTY RIGHTS: UNLESS OTHERWISE SPECIFIED IN THE AGREEMENT, THE AGREEMENT SHALL NOT CREATE ANY RIGHTS OR BENEFITS TO PARTIES OTHER THAN CLIENT AND CONSULTANT.
15. LIMITATION OF PROFESSIONAL LIABILITY: CLIENT AGREES TO LIMIT CONSULTANT'S LIABILITY TO CLIENT AND ALL THIRD PARTIES ARISING FROM CONSULTANT'S PROFESSIONAL ACTS, ERRORS, AND OMISSIONS, SUCH THAT THE AGGREGATE LIABILITY OF CONSULTANT AND ITS EMPLOYEES, AND PERSONS OR ENTITIES ACTING



ON CONSULTANT'S BEHALF SHALL NOT EXCEED \$100,000.00 OR CONSULTANT'S TOTAL FEE FOR SERVICES UNDER THIS AGREEMENT, WHICHEVER IS GREATER. THIS TOTAL LIMIT OF PROFESSIONAL LIABILITY INCLUDES BUT IS NOT LIMITED TO THE SUM OF CLAIMS ARISING FROM BREACH OF CONTRACT, STRICT LIABILITY, AS WELL AS INDIRECT AND CONSEQUENTIAL DAMAGES. CONSULTANT MAY, UPON CLIENT'S WRITTEN REQUEST, AGREE TO INCREASE THE ABOVE LIMIT OF CONSULTANT'S PROFESSIONAL LIABILITY IN CONSIDERATION OF PAYMENT BY CLIENT OF ADDITIONAL MONETARY AND OTHER CONSIDERATION.

16. CERTIFICATIONS, GUARANTEES AND WARRANTIES: CONSULTANT CANNOT AND DOES NOT OFFER CERTIFICATIONS, GUARANTEES OR WARRANTIES REGARDING ITS SERVICES. THE CONSULTANT OFFERS PROFESSIONAL OPINIONS REGARDING THE STATUS OF ENGINEERING AND SCIENTIFIC MATTERS BASED UPON AVAILABLE LIMITED INFORMATION.
17. CONSEQUENTIAL DAMAGES: NOTWITHSTANDING ANY OTHER PROVISION OF THIS AGREEMENT, AND TO THE FULLEST EXTENT PERMITTED BY LAW, NEITHER THE CLIENT NOR THE CONSULTANT, THEIR RESPECTIVE OFFICERS, DIRECTORS, PARTNERS, EMPLOYEES, CONTRACTORS OR SUBCONSULTANTS SHALL BE LIABLE TO THE OTHER OR SHALL MAKE ANY CLAIM FOR ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR CONNECTED IN ANY WAY TO THE PROJECT OR TO THIS AGREEMENT. THIS MUTUAL WAIVER OF CONSEQUENTIAL DAMAGES SHALL INCLUDE, BUT IS NOT LIMITED TO, LOSS OF USE, LOSS OF PROFIT, LOSS OF BUSINESS, LOSS OF INCOME, LOSS OF REPUTATION OR ANY OTHER CONSEQUENTIAL DAMAGES THAT EITHER PARTY MAY HAVE INCURRED FROM ANY CAUSE OF ACTION INCLUDING NEGLIGENCE, STRICT LIABILITY, BREACH OF CONTRACT AND BREACH OF STRICT OR IMPLIED WARRANTY. BOTH THE CLIENT AND THE CONSULTANT SHALL REQUIRE SIMILAR WAIVERS OF CONSEQUENTIAL DAMAGES PROTECTING ALL THE ENTITIES OR PERSONS NAMED HEREIN IN ALL CONTRACTS AND SUBCONTRACTS WITH OTHERS INVOLVED IN THIS PROJECT.
18. PROFESSIONAL SERVICES BY CONSULTANT EMPLOYEES HOLDING LICENSE(S) AND/OR REGISTRATION(S): IN CONDUCTING CERTAIN PROFESSIONAL SERVICES, CONSULTANT EMPLOYEES MAY ACT IN THEIR CAPACITY AS LICENSED AND/OR REGISTERED PROFESSIONALS AND/OR PROFESSIONAL ENGINEERS, IN ACCORDANCE APPLICABLE LAWS AND LICENSING/REGISTRATION REQUIREMENTS. CLIENT ACKNOWLEDGES THAT IN PERFORMING THESE SERVICES, THE CONSULTANT, THROUGH ITS LICENSED AND/OR REGISTERED PROFESSIONALS, IS BOUND BY LICENSE AND/OR REGISTRATION REQUIREMENTS AND/OR STATE LAW TO MEET APPLICABLE REQUIREMENTS. CLIENT FURTHER ACKNOWLEDGES THAT THE CONSULTANT'S DUTY TO COMPLY WITH PROFESSIONAL LICENSING/REGISTRATION REQUIREMENTS AND STATE LAW MAY IN SOME INSTANCES CONFLICT WITH CLIENT INTERESTS; IN THESE CASES, THE CONSULTANT WILL SEEK TO COMPLY WITH PROFESSIONAL REQUIREMENTS AND THE LAW.
19. THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) CONDUCTS RANDOM AND TARGETED COMPLIANCE AUDITS OF RESPONSE ACTIONS UNDER THE MCP, AND IN ADDITION INTENDS TO AUDIT ALL RESPONSE ACTIONS WHICH INCLUDE ACTIVITY AND USE LIMITATIONS (AULS). CLIENT ACKNOWLEDGES THAT CLIENT IS RESPONSIBLE FOR ALL COSTS ARISING OUT OF CONSULTANT'S ACTIONS TO COMPLY WITH DEP REQUESTS DURING AN AUDIT, INCLUDING CONSULTANT'S FEES FOR TIME AND MATERIALS USED IN PREPARING RESPONSES.

THESE COSTS ARE NOT INCLUDED IN CONSULTANT'S CURRENT BUDGET FOR THIS PROPOSAL, UNLESS THE PROPOSAL SPECIFICALLY STATES OTHERWISE.

APPENDIX B



Northwest side of school



West side of school



Southeast side of school



Athletic fields





Boiler room



Machine shop



Green house



Abandoned hydraulic lift





Waste oil and antifreeze storage on secondary containment



Parts washer in auto mechanics

APPENDIX C

**User Questionnaire & Pre-Site Visit Data Request  
Phase I Environmental Site Assessment  
ASTM E1527-21**

Subject Property Name and Address: SSVOTECH - 476 WESTBEEK ST  
HAMDEN MA 07839  
Owner: School District  
Occupant: SSVOTECH High School  
Form Completed By: James Harding Facilities Director  
Date: 10-11-23  
Representing (the "User"): SSVOTECH

**User Questionnaire**

To qualify for one of the Landowner Liability Protections (LLPs)<sup>1</sup> offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must conduct the following inquiries required by 40 C.F.R. §§ 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.

**(1.) Environmental liens that are filed or recorded against the *subject property* (40 C.F.R. § 312.25).**

Did a search of *land title records*<sup>2</sup> (or judicial records where appropriate) identify any *environmental liens* filed or recorded against the *subject property* under federal, tribal, state, or local law?

NO

**(2.) Activity and use limitations that are in place on the *subject property* or that have been filed or recorded against the *subject property*.**

Did a search of *land title records* (or judicial records where appropriate) identify any *AULs*<sup>3</sup>, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *subject property* and/or have been filed or recorded against the *subject property* under federal, tribal, state or local law?

NO

<sup>1</sup> *Landowner Liability Protections*, or *LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability* ("Common Elements" Guide) issued on March 6, 2003.

<sup>2</sup> In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that *environmental liens* and *AULs* be filed in judicial records rather than in *land title records*. In such cases judicial records shall be searched for *environmental liens* and *AULs*.

<sup>3</sup> Activity and Use Limitations (*AULs*)—legal or physical restrictions or limitations on the use of, or access to, a site or facility



**(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 C.F.R. § 312.28).**

Do you have any specialized knowledge or experience related to the *subject property* or nearby *properties*? For example, are you involved in the same line of business as the current or former *occupants* of the *subject property* or an *adjoining property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

no

**(4.) Relationship of the purchase price to the fair market value of the *subject property* if it were not contaminated (40 C.F.R. § 312.29).**

Does the purchase price being paid for this *subject property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *subject property*?

N/A

**(5.) Commonly known or *reasonably ascertainable* information about the *subject property* (40 C.F.R. § 312.30).**

Are you aware of commonly known or *reasonably ascertainable* information about the *subject property* that would help the *environmental professional* to identify conditions indicative of *releases* or threatened *releases*<sup>4</sup>? For example,

(a.) Do you know the past uses of the *subject property*?

Agricultural, wooded land, undeveloped

(b.) Do you know of specific chemicals that are present or once were present at the *subject property*?

commercially sized containers - no bulk storage

(c.) Do you know of spills or other chemical *releases* that have taken place at the *subject property*?

no

(d.) Do you know of any environmental cleanups that have taken place at the *subject property*?

no

<sup>4</sup> *release, n/v*—a *release* of any *hazardous substance* or *petroleum product* shall have the same meaning as the definition of “*release*” in CERCLA 42 U.S.C. § 9601(22). There are several statutory exclusions from the definition of *release* that may impact the *environmental professional’s* opinions and conclusions, such as the normal application of fertilizer. For additional background information, see Legal Appendices in ASTM E1527-21.

**(6.) The degree of obviousness of the presence or likely presence of contamination at the *subject property*, and the ability to detect the contamination by appropriate investigation (40 C.F.R. § 312.31).**

Based on your knowledge and experience related to the *subject property*, are there any *obvious* indicators that point to the presence or likely presence of *releases* at the *subject property*?

NO

**Pre-Site Visit Data Request**

Prior to the site visit, the subject property owner, key site manager (if any is identified), and user (if different from the subject property owner) shall inform the environmental professional if they know whether any of the documents listed below exist and, if so, whether copies can and will be provided to the environmental professional within reasonable time and cost constraints. Even partial information provided may be useful. If so, the environmental professional conducting the site visit shall review the available documents prior to or at the beginning of the site visit.

1. Environmental site assessment reports;
2. Environmental site investigation reports;
3. Environmental compliance audit reports;
4. Environmental permits (for example, solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits, air permits);
5. Registrations for underground storage tanks and aboveground storage tanks;
6. Registrations for underground injection systems;
7. Safety data sheets;
8. Community right-to-know plans;
9. Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; facility response plans, etc.;
10. Reports regarding hydrogeologic conditions at the subject property or surrounding area;
11. Reports regarding any self-directed or other cleanup activities conducted at the subject property;
12. Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the subject property or relating to environmental liens encumbering the subject property;
13. Hazardous waste generator notices or reports;
14. Geotechnical studies;
15. Risk Assessments; and
16. Recorded Activity & Use Limitations or other environmental use restrictions/covenants.

Proceedings Involving the Subject Property—Prior to the site visit, the subject property owner, key site manager (if any is identified), and user (if different from the subject property owner) shall inform the environmental professional whether they know of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, at, or from the subject property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, at, or from the subject property; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

Failure to provide the above information will be interpreted as lack of knowledge of the described items.

Additional Information (Optional)

In addition, certain information should be collected, if available, and provided to the environmental professional conducting the Phase I Environmental Site Assessment. This information is intended to assist the environmental professional, but is not necessarily required to qualify for one of the LLPs. The information includes:

(1.) The reason why the Phase I is being performed;

*new school or new addition*

(2.) The type of property and type of property transaction, for example, sale, purchase, exchange, etc.;

*N/A*

(3.) The complete and correct address for the subject property (a map or other documentation showing the property location and boundaries is helpful);

*476 WEBSTER ST HANNAH MA 02339*

(4.) The scope of services desired for the Phase I (including whether any parties to the property transaction may have a required standard scope of services or whether any considerations beyond the requirements of practice E1527 are to be considered);

*Standard scope of services*

(5.) Identification of all parties who will rely on the Phase I report;

*town of Hannah or municipality SSUOTECH*

(6.) Name and contact information of the Site property owner or key site manager.

*James Harding - Facilities Director*

(7.) Any special terms and conditions which must be agreed upon by the environmental professional; and

*no*

(8.) Any other knowledge or experience with the subject property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the subject property and its environmental condition).

*no*

**Should you have any questions regarding the User Responsibilities described in ASTM E1527-21, please do not hesitate to contact O'Reilly, Talbot & Okun Associates, Inc. at 413-788-6222.**

APPENDIX D

**South Shore Regional School**

476 Webster Street  
Hanover, MA 02339

Inquiry Number: 7444858.2s  
September 14, 2023

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# TABLE OF CONTENTS

SECTION	PAGE
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	8
Orphan Summary .....	249
Government Records Searched/Data Currency Tracking .....	GR-1
<b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting Source Map .....	A-8
Physical Setting Source Map Findings .....	A-9
Physical Setting Source Records Searched .....	PSGR-1

*Thank you for your business.*  
 Please contact EDR at 1-800-352-0050  
 with any questions or comments.

### Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. **NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA) INFORMATION PROVIDED IN THIS REPORT.** Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2023 by Environmental Data Resources, LLC. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, LLC, or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.

## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

476 WEBSTER STREET  
HANOVER, MA 02339

#### COORDINATES

Latitude (North): 42.1468710 - 42° 8' 48.73"  
Longitude (West): 70.8623960 - 70° 51' 44.62"  
Universal Transverse Mercator: Zone 19  
UTM X (Meters): 346109.0  
UTM Y (Meters): 4667548.0  
Elevation: 112 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 11810456 COHASSET, MA  
Version Date: 2018  
  
Northwest Map: 11747667 WEYMOUTH, MA  
Version Date: 2018

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20180930  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
476 WEBSTER STREET  
HANOVER, MA 02339

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	SO SHORE REGIONAL VO	476 WEBSTER ST.	FINDS, ECHO		TP
<a href="#">A2</a>	SOUTH SHORE REGIONAL	476 WEBSTER STREET	ASBESTOS		TP
<a href="#">A3</a>	SOUTH SHORE VOCATION	476 WEBSTER STREET	ASBESTOS		TP
<a href="#">A4</a>	SOUTH SHORE VOCATION	476 WEBSTER ST	SPILLS, AIRS, ASBESTOS, HW GEN		TP
<a href="#">A5</a>	SOUTH SHORE REGIONAL	476 WEBSTER STREET	FTTS, HIST FTTS		TP
<a href="#">A6</a>	SOUTH SHORE REGIONAL	476 WEBSTER STREET	US AIRS		TP
<a href="#">A7</a>	SOUTH SHORE VOCATION	476 WEBSTER STREET	ASBESTOS		TP
<a href="#">A8</a>	SOUTH SHORE REGIONAL	476 WEBSTER STREET	FTTS, HIST FTTS		TP
<a href="#">A9</a>	SOUTH SHORE REGIONAL	476 WEBSTER ST	RCRA-VSQG		TP
<a href="#">A10</a>	SOUTH SHORE REGIONAL	476 WEBSTER STREET	ASBESTOS		TP
<a href="#">11</a>	BAPTIST CHURCH	580 WEBSTER ST	LUST, RELEASE, ASBESTOS	Lower	290, 0.055, WSW
<a href="#">B12</a>	DANIELS RESIDENCE	70 DILLINGHAM WAY	RCRA NonGen / NLR	Lower	363, 0.069, SSW
<a href="#">B13</a>	RESIDENTIAL UST RELE	70 DILLINGHAM WAY	SHWS, LUST, RELEASE	Lower	363, 0.069, SSW
<a href="#">C14</a>	NO LOCATION AID	26 DAVIS ST	LAST, LUST, RELEASE	Lower	795, 0.151, SW
<a href="#">C15</a>	GODFREY RESIDENCE	31 DAVIS ST	RCRA NonGen / NLR	Lower	922, 0.175, SSW
<a href="#">D16</a>	MASSACHUSETTS ELECTR	19 PHILLIPS LN	RCRA-VSQG	Higher	1027, 0.195, NNE
<a href="#">D17</a>	NATIONAL GRID-PHILLI	19 PHILLIPS LANE	HW GEN, TIER 2, UIC	Higher	1027, 0.195, NNE
<a href="#">18</a>	FRM BOSTON WHALER FA	145 WEBSTER ST	SHWS, BROWNFIELDS, RELEASE	Higher	3039, 0.576, NNE
<a href="#">19</a>	EXIT RAMP	RTE 3 SOUTH @ RTE 53	SHWS, RELEASE	Higher	3250, 0.616, ENE
<a href="#">20</a>	JANNELL FORD	2000 WASHINGTON STRE	SHWS, LAST, RELEASE, HW GEN	Higher	3489, 0.661, ENE
<a href="#">21</a>	FIVE STAR	1808 WASHINGTON ST	SHWS, LUST, UST, AST, RELEASE, Financial...	Higher	3528, 0.668, East
<a href="#">22</a>	NO LOCATION AID	1485 WASHINGTON ST	SHWS, RELEASE	Higher	3667, 0.695, East
<a href="#">E23</a>	JIFFY LUBE	1988 WASHINGTON STRE	SHWS, RELEASE	Higher	3701, 0.701, ENE
<a href="#">F24</a>	HANOVER MALL	RT-53	SHWS, BROWNFIELDS, RELEASE	Higher	3784, 0.717, East
<a href="#">G25</a>	RT 53,WASHINGTON ST/	2122 WASHINGTON ST	SHWS, LUST, RELEASE	Higher	3794, 0.719, NE
<a href="#">26</a>	FORMER BURGER KING	1835 WASHINGTON STRE	SHWS, RELEASE	Higher	3827, 0.725, East
<a href="#">F27</a>	MOBIL SERV STA	1451 WASHINGTON ST	SHWS, LUST, RELEASE, SPILLS, HW GEN	Higher	3836, 0.727, East
<a href="#">28</a>	RTE 3	RTE 53	SHWS, RELEASE	Lower	3873, 0.734, ENE
<a href="#">G29</a>	NO LOCATION AID	INTERSECTION OF RTE	SHWS, RELEASE	Higher	3881, 0.735, NE
<a href="#">30</a>	CONSTRUCTION SITE	2053 WASHINGTON STRE	SHWS, LUST, RELEASE, ASBESTOS	Higher	3890, 0.737, NE
<a href="#">E31</a>	CUMBERLAND FARMS 678	1987 WASHINGTON ST	SHWS, AST, RELEASE, ASBESTOS, HW GEN	Higher	3949, 0.748, ENE
<a href="#">32</a>	RESIDENTIAL STREET	9 TYLER STREET	SHWS, RELEASE	Higher	3973, 0.752, North
<a href="#">33</a>	FORMER MIDAS MUFFLER	1969 WASHINGTON STRE	SHWS, LAST, RELEASE	Higher	3980, 0.754, ENE
<a href="#">34</a>	MILL ST&WASHINGTON S	1376 WASHINGTON ST	SHWS, RELEASE, HW GEN	Lower	3980, 0.754, ESE
<a href="#">35</a>	BOSTON WHALER INC	412 WASHINGTON ST.	SHWS, SPILLS, RELEASE, RCRA NonGen / NLR, FINDS,...	Higher	4010, 0.759, NNE
<a href="#">36</a>	NO LOCATION AID	249 HIGH ST	SHWS, LAST, RELEASE	Higher	4012, 0.760, NW
<a href="#">37</a>	ROUTE 53 & ROUTE123	2117 WASHINGTON ST	SHWS, INST CONTROL, RELEASE, UIC	Higher	4110, 0.778, NE
<a href="#">H38</a>	NO LOCATION AID	515 WASHINGTON ST	SHWS, INST CONTROL, RELEASE	Higher	4142, 0.784, NE
<a href="#">39</a>	GARDEN CTR	376 WASHINGTON ST	SHWS, RELEASE	Higher	4161, 0.788, North

MAPPED SITES SUMMARY

Target Property Address:  
 476 WEBSTER STREET  
 HANOVER, MA 02339

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">H40</a>	NORWELL CLEANERS	507 WASHINGTON ST	SHWS, INST CONTROL, RELEASE	Higher	4163, 0.788, NNE
<a href="#">41</a>	FOXROCK LONGWATER II	141 LONGWATER DR	SHWS, RELEASE, HW GEN	Higher	4528, 0.858, NW
<a href="#">42</a>	NORTH RIVER ELECTRIC	433 WASHINGTON ST	SHWS, RELEASE	Higher	4572, 0.866, NNE
<a href="#">43</a>	MACYS HANOVER 184	1775 WASHINGTON ST	SHWS, LUST, SPILLS, RELEASE, ASBESTOS, GWDP, HW...	Lower	4719, 0.894, East

## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
SO SHORE REGIONAL VO 476 WEBSTER ST. HANOVER, MA 02339	FINDS Registry ID:: 110070354362 Registry ID:: 110010401127	N/A
	ECHO Registry ID: 110010401127	
SOUTH SHORE REGIONAL 476 WEBSTER STREET HANOVER, MA	ASBESTOS	N/A
SOUTH SHORE VOCATION 476 WEBSTER STREET HANOVER, MA	ASBESTOS	N/A
SOUTH SHORE VOCATION 476 WEBSTER ST HANOVER, MA 02339	SPILLS Facility Id: 0000 Case Closed: YES Spill ID: S93-0232  AIRS ASBESTOS HW GEN State Generator Status: VQG-MA State Generator Status: SQG-MA EPA Id: MAR000531855 EPA Id: MV7818782277	N/A
SOUTH SHORE REGIONAL 476 WEBSTER STREET HANOVER, MA 2339	FTTS Database: FTTS INSP, Date of Government Version: 04/09/2009	N/A
	HIST FTTS Database: HIST FTTS INSP, Date of Government Version: 10/19/2006	
SOUTH SHORE REGIONAL 476 WEBSTER STREET HANOVER, MA 02339	US AIRS Database: US AIRS MINOR, Date of Government Version: 10/12/2016 EPA plant ID:: 110010401127	N/A
SOUTH SHORE VOCATION 476 WEBSTER STREET HANOVER, MA	ASBESTOS	N/A
SOUTH SHORE REGIONAL 476 WEBSTER STREET HANOVER, MA 2339	FTTS Database: FTTS INSP, Date of Government Version: 04/09/2009	N/A
	HIST FTTS Database: HIST FTTS INSP, Date of Government Version: 10/19/2006	



## EXECUTIVE SUMMARY

SOUTH SHORE REGIONAL  
476 WEBSTER ST  
HANOVER, MA 02339

RCRA-VSQG  
EPA ID:: MAR000531855

MAR000531855

SOUTH SHORE REGIONAL  
476 WEBSTER STREET  
HANOVER, MA

ASBESTOS

N/A

### **DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### **STANDARD ENVIRONMENTAL RECORDS**

#### ***Lists of Federal NPL (Superfund) sites***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

#### ***Lists of Federal Delisted NPL sites***

Delisted NPL..... National Priority List Deletions

#### ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY..... Federal Facility Site Information listing  
SEMS..... Superfund Enterprise Management System

#### ***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

#### ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS..... Corrective Action Report

#### ***Lists of Federal RCRA TSD facilities***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

#### ***Lists of Federal RCRA generators***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-SQG..... RCRA - Small Quantity Generators

## EXECUTIVE SUMMARY

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System  
US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROLS..... Institutional Controls Sites List

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***Lists of state and tribal landfills and solid waste disposal facilities***

SWF/LF..... Solid Waste Facility Database/Transfer Stations

### ***Lists of state and tribal leaking storage tanks***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***Lists of state and tribal registered storage tanks***

FEMA UST..... Underground Storage Tank Listing  
UST..... Summary Listing of all the Tanks Registered in the State of Massachusetts  
AST..... Aboveground Storage Tank Database  
INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal institutional control / engineering control registries***

INST CONTROL..... Sites With Activity and Use Limitation

### ***Lists of state and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***Lists of state and tribal brownfield sites***

BROWNFIELDS..... Completed Brownfields Covenants Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
ODI..... Open Dump Inventory  
IHS OPEN DUMPS..... Open Dumps on Indian Land

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... Delisted National Clandestine Laboratory Register

## EXECUTIVE SUMMARY

US CDL..... National Clandestine Laboratory Register

### **Local Land Records**

LIENS..... Liens Information Listing  
LIENS 2..... CERCLA Lien Information

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
RELEASE..... Reportable Releases Database  
SPILLS 90..... SPILLS 90 data from FirstSearch  
SPILLS 80..... SPILLS 80 data from FirstSearch

### **Other Ascertainable Records**

FUDS..... Formerly Used Defense Sites  
DOD..... Department of Defense Sites  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
US FIN ASSUR..... Financial Assurance Information  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
TSCA..... Toxic Substances Control Act  
TRIS..... Toxic Chemical Release Inventory System  
SSTS..... Section 7 Tracking Systems  
ROD..... Records Of Decision  
RMP..... Risk Management Plans  
RAATS..... RCRA Administrative Action Tracking System  
PRP..... Potentially Responsible Parties  
PADS..... PCB Activity Database System  
ICIS..... Integrated Compliance Information System  
MLTS..... Material Licensing Tracking System  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
RADINFO..... Radiation Information Database  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
INDIAN RESERV..... Indian Reservations  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US MINES..... Mines Master Index File  
ABANDONED MINES..... Abandoned Mines  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
UXO..... Unexploded Ordnance Sites  
FUELS PROGRAM..... EPA Fuels Program Registered Listing  
PFAS NPL..... Superfund Sites with PFAS Detections Information  
PFAS FEDERAL SITES..... Federal Sites PFAS Information  
PFAS TSCA..... PFAS Manufacture and Imports Information  
PFAS RCRA MANIFEST..... PFAS Transfers Identified In the RCRA Database Listing  
PFAS ATSDR..... PFAS Contamination Site Location Listing  
PFAS WQP..... Ambient Environmental Sampling for PFAS  
PFAS NPDES..... Clean Water Act Discharge Monitoring Information  
PFAS ECHO..... Facilities in Industries that May Be Handling PFAS Listing

## EXECUTIVE SUMMARY

PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
PFAS	PFAS Contaminated Sites Listing
DRYCLEANERS	Regulated Drycleaning Facilities
ENF	Enforcement Action Cases
Financial Assurance	Financial Assurance Information Listing
GWDP	Ground Water Discharge Permits
MERCURY	Mercury Product Recycling Drop-Off Locations Listing
NPDES	NPDES Permit Listing
TIER 2	Tier 2 Information Listing
TSD	TSD Facility
UIC	Underground Injection Control Listing
MINES MRDS	Mineral Resources Data System
BIOSOLIDS	ICIS-NPDES Biosolids Facility Data
PFAS TRIS	List of PFAS Added to the TRI

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Lists of Federal RCRA generators***

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting

## EXECUTIVE SUMMARY

the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 07/24/2023 has revealed that there is 1 RCRA-VSQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MASSACHUSETTS ELECTR EPA ID:: MAC300013802	19 PHILLIPS LN	NNE 1/8 - 1/4 (0.195 mi.)	D16	84

### ***Lists of state- and tribal hazardous waste facilities***

SHWS: Contains information on releases of oil and hazardous materials that have been reported to DEP.

A review of the SHWS list, as provided by EDR, and dated 04/05/2023 has revealed that there are 27 SHWS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>FRM BOSTON WHALER FA</b> Release Tracking Number: 4-0010616 Current Status: RAO	<b>145 WEBSTER ST</b>	<b>NNE 1/2 - 1 (0.576 mi.)</b>	<b>18</b>	<b>93</b>
<b>EXIT RAMP</b> Release Tracking Number: 4-0010100 Current Status: RAO	<b>RTE 3 SOUTH @ RTE 53</b>	<b>ENE 1/2 - 1 (0.616 mi.)</b>	<b>19</b>	<b>95</b>
<b>JANNELL FORD</b> Release Tracking Number: 4-0023949 Current Status: RAO	<b>2000 WASHINGTON STRE</b>	<b>ENE 1/2 - 1 (0.661 mi.)</b>	<b>20</b>	<b>97</b>
<b>FIVE STAR</b> Release Tracking Number: 4-0017188 Release Tracking Number: 4-0021100 Current Status: RAO	<b>1808 WASHINGTON ST</b>	<b>E 1/2 - 1 (0.668 mi.)</b>	<b>21</b>	<b>101</b>
<b>NO LOCATION AID</b> Release Tracking Number: 4-0015367 Current Status: RAO	<b>1485 WASHINGTON ST</b>	<b>E 1/2 - 1 (0.695 mi.)</b>	<b>22</b>	<b>118</b>
<b>JIFFY LUBE</b> Release Tracking Number: 4-0023795 Current Status: RAO	<b>1988 WASHINGTON STRE</b>	<b>ENE 1/2 - 1 (0.701 mi.)</b>	<b>E23</b>	<b>119</b>
<b>HANOVER MALL</b> Release Tracking Number: 4-0020171 Current Status: RAO	<b>RT-53</b>	<b>E 1/2 - 1 (0.717 mi.)</b>	<b>F24</b>	<b>121</b>
<b>RT 53, WASHINGTON ST/</b> Release Tracking Number: 4-0017303 Current Status: RAO	<b>2122 WASHINGTON ST</b>	<b>NE 1/2 - 1 (0.719 mi.)</b>	<b>G25</b>	<b>123</b>
<b>FORMER BURGER KING</b> Release Tracking Number: 4-0027815	<b>1835 WASHINGTON STRE</b>	<b>E 1/2 - 1 (0.725 mi.)</b>	<b>26</b>	<b>129</b>



## EXECUTIVE SUMMARY

Current Status: PSNC				
<b>MOBIL SERV STA</b>	<b>1451 WASHINGTON ST</b>	<b>E 1/2 - 1 (0.727 mi.)</b>	<b>F27</b>	<b>131</b>
Release Tracking Number: 4-0026699				
Release Tracking Number: 4-0019075				
Release Tracking Number: 4-0022095				
Release Tracking Number: 4-0001007				
Current Status: PSNC				
Current Status: RAO				
<b>NO LOCATION AID</b>	<b>INTERSECTION OF RTE</b>	<b>NE 1/2 - 1 (0.735 mi.)</b>	<b>G29</b>	<b>156</b>
Release Tracking Number: 4-0017379				
Current Status: URAM				
<b>CONSTRUCTION SITE</b>	<b>2053 WASHINGTON STRE</b>	<b>NE 1/2 - 1 (0.737 mi.)</b>	<b>30</b>	<b>157</b>
Release Tracking Number: 4-0027387				
Current Status: PSNC				
<b>CUMBERLAND FARMS 678</b>	<b>1987 WASHINGTON ST</b>	<b>ENE 1/2 - 1 (0.748 mi.)</b>	<b>E31</b>	<b>164</b>
Release Tracking Number: 4-0029320				
Current Status: PSNC				
<b>RESIDENTIAL STREET</b>	<b>9 TYLER STREET</b>	<b>N 1/2 - 1 (0.752 mi.)</b>	<b>32</b>	<b>167</b>
Release Tracking Number: 4-0028019				
Current Status: PSNC				
<b>FORMER MIDAS MUFFLER</b>	<b>1969 WASHINGTON STRE</b>	<b>ENE 1/2 - 1 (0.754 mi.)</b>	<b>33</b>	<b>169</b>
Release Tracking Number: 4-0026574				
Current Status: PSNC				
<b>BOSTON WHALER INC</b>	<b>412 WASHINGTON ST.</b>	<b>NNE 1/2 - 1 (0.759 mi.)</b>	<b>35</b>	<b>174</b>
Release Tracking Number: 4-0000402				
Current Status: RAO				
<b>NO LOCATION AID</b>	<b>249 HIGH ST</b>	<b>NW 1/2 - 1 (0.760 mi.)</b>	<b>36</b>	<b>184</b>
Release Tracking Number: 4-0018239				
Current Status: RAO				
<b>ROUTE 53 &amp; ROUTE123</b>	<b>2117 WASHINGTON ST</b>	<b>NE 1/2 - 1 (0.778 mi.)</b>	<b>37</b>	<b>192</b>
Release Tracking Number: 4-0010487				
Current Status: RAO				
<b>NO LOCATION AID</b>	<b>515 WASHINGTON ST</b>	<b>NE 1/2 - 1 (0.784 mi.)</b>	<b>H38</b>	<b>197</b>
Release Tracking Number: 4-0021668				
Current Status: DPS				
<b>GARDEN CTR</b>	<b>376 WASHINGTON ST</b>	<b>N 1/2 - 1 (0.788 mi.)</b>	<b>39</b>	<b>199</b>
Release Tracking Number: 4-0012405				
Current Status: DEPNFA				
<b>NORWELL CLEANERS</b>	<b>507 WASHINGTON ST</b>	<b>NNE 1/2 - 1 (0.788 mi.)</b>	<b>H40</b>	<b>201</b>
Release Tracking Number: 4-0019682				
Release Tracking Number: 4-0021297				
Current Status: TIERII				
Current Status: RAONR				
<b>FOXROCK LONGWATER II</b>	<b>141 LONGWATER DR</b>	<b>NW 1/2 - 1 (0.858 mi.)</b>	<b>41</b>	<b>208</b>
Release Tracking Number: 4-0020718				
Release Tracking Number: 4-0024063				
Current Status: RAO				
<b>NORTH RIVER ELECTRIC</b>	<b>433 WASHINGTON ST</b>	<b>NNE 1/2 - 1 (0.866 mi.)</b>	<b>42</b>	<b>211</b>
Release Tracking Number: 4-0000713				
Current Status: DEPNFA				
<b>Lower Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
<b>RESIDENTIAL UST RELE</b>	<b>70 DILLINGHAM WAY</b>	<b>SSW 0 - 1/8 (0.069 mi.)</b>	<b>B13</b>	<b>64</b>

## EXECUTIVE SUMMARY

Release Tracking Number: 4-0027763  
Current Status: PSNC

<p><b>RTE 3</b> Release Tracking Number: 4-0016993 Current Status: RAO</p>	<p><b>RTE 53</b></p>	<p><b>ENE 1/2 - 1 (0.734 mi.)</b></p>	<p><b>28</b></p>	<p><b>154</b></p>
<p><b>MILL ST&amp;WASHINGTON S</b> Release Tracking Number: 4-0014541 Current Status: RAO</p>	<p><b>1376 WASHINGTON ST</b></p>	<p><b>ESE 1/2 - 1 (0.754 mi.)</b></p>	<p><b>34</b></p>	<p><b>173</b></p>
<p><b>MACYS HANOVER 184</b> Release Tracking Number: 4-0011273 Current Status: RAO</p>	<p><b>1775 WASHINGTON ST</b></p>	<p><b>E 1/2 - 1 (0.894 mi.)</b></p>	<p><b>43</b></p>	<p><b>212</b></p>

### ***Lists of state and tribal leaking storage tanks***

LUST: Sites within the Releases Database that have a UST listed as its source.

A review of the LUST list, as provided by EDR, and dated 04/05/2023 has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
<b>BAPTIST CHURCH</b> Release Tracking Number / Current Status: 4-0010606 / RAO	<b>580 WEBSTER ST</b>	<b>WSW 0 - 1/8 (0.055 mi.)</b>	<b>11</b>	<b>56</b>
<b>RESIDENTIAL UST RELE</b> Release Tracking Number / Current Status: 4-0027763 / PSNC	<b>70 DILLINGHAM WAY</b>	<b>SSW 0 - 1/8 (0.069 mi.)</b>	<b>B13</b>	<b>64</b>
<b>NO LOCATION AID</b> Release Tracking Number / Current Status: 4-0017322 / RAONR	<b>26 DAVIS ST</b>	<b>SW 1/8 - 1/4 (0.151 mi.)</b>	<b>C14</b>	<b>68</b>

LAST: The Leaking Aboveground Storage Tanks database

A review of the LAST list, as provided by EDR, and dated 04/05/2023 has revealed that there is 1 LAST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
<b>NO LOCATION AID</b> Release Tracking Number / Current Status: 4-0016817 / RAO	<b>26 DAVIS ST</b>	<b>SW 1/8 - 1/4 (0.151 mi.)</b>	<b>C14</b>	<b>68</b>

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Other Ascertainable Records***

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 07/24/2023 has revealed that

## EXECUTIVE SUMMARY

there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DANIELS RESIDENCE EPA ID:: MAR000558940	70 DILLINGHAM WAY	SSW 0 - 1/8 (0.069 mi.)	B12	61
GODFREY RESIDENCE EPA ID:: MAR000586891	31 DAVIS ST	SSW 1/8 - 1/4 (0.175 mi.)	C15	81

HW GEN: Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

A review of the HW GEN list, as provided by EDR, and dated 06/09/2023 has revealed that there is 1 HW GEN site within approximately 0.25 miles of the target property.

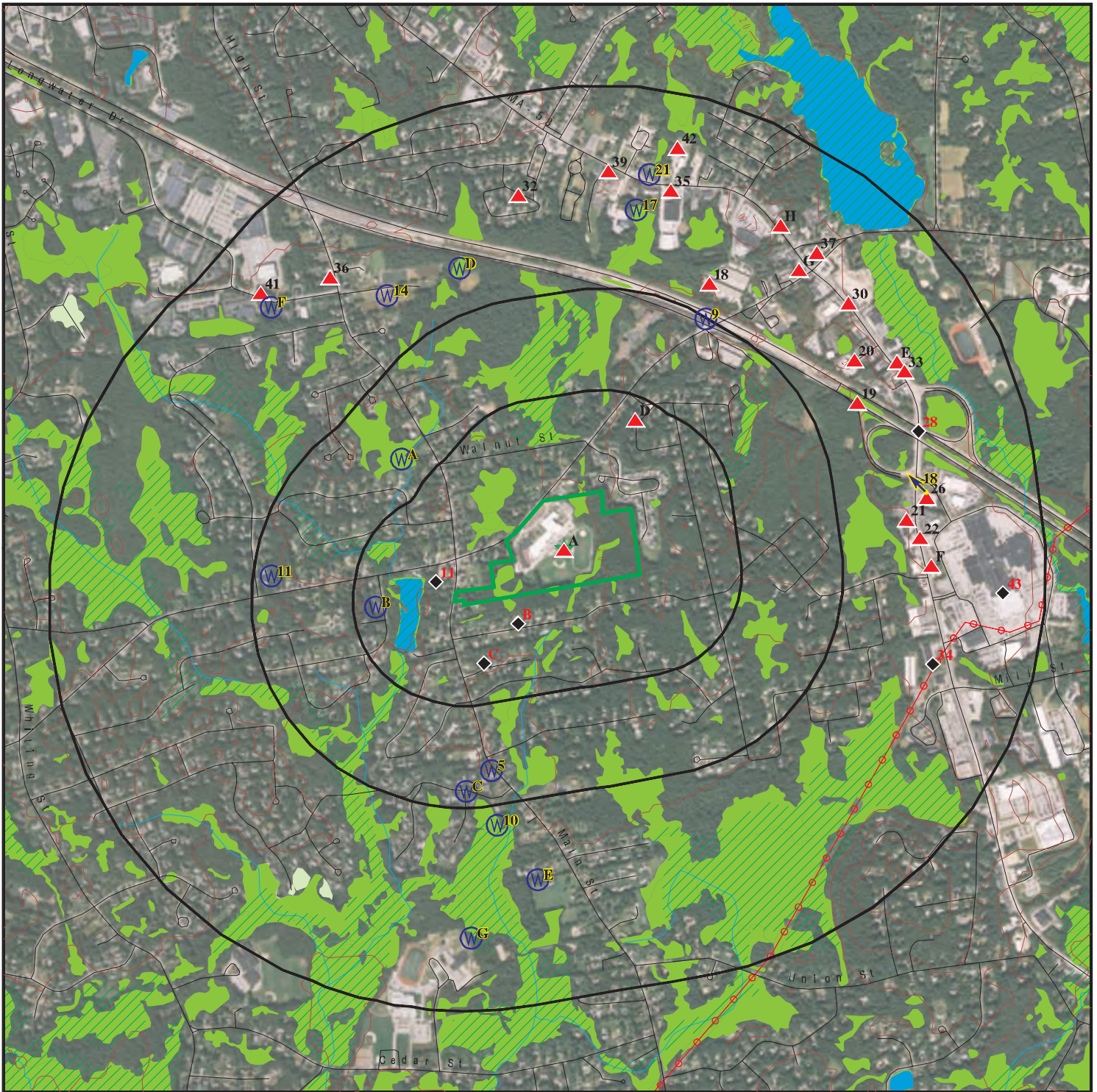
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>NATIONAL GRID-PHILLI</i></b> State Generator Status: VQG-MA EPA Id: MAC300013802	<b><i>19 PHILLIPS LANE</i></b>	<b><i>NNE 1/8 - 1/4 (0.195 mi.)</i></b>	<b><i>D17</i></b>	<b><i>86</i></b>

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 9 records.

<u>Site Name</u>	<u>Database(s)</u>
VACANT BUILDING/FORMER CARDINAL CU	SHWS, LUST, RELEASE
RTE 53	SHWS, RELEASE
POLE 67A2	SHWS, RELEASE
POLE 195	SHWS, RELEASE
15 AND 19 HIGH STREET	SHWS, RELEASE
RTE 3 NORTH AT MILE MARKER 29.8	SHWS, RELEASE
DOT,D.W. WHITE CONSTRUCTION PROJEC	SHWS, RELEASE
ROADWAY	SHWS, RELEASE
RT 53 SOUTH ROADWAY	SHWS, RELEASE

# OVERVIEW MAP - 7444858.2S



Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Critical Environmental Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.








SITE NAME: South Shore Regional School  
 ADDRESS: 476 Webster Street  
 Hanover MA 02339  
 LAT/LONG: 42.146871 / 70.862396







CLIENT: O Reilly, Talbot & Okun  
 CONTACT: Bruce Nickelsen  
 INQUIRY #: 7444858.2s  
 DATE: September 14, 2023 4:53 pm



# DETAIL MAP - 7444858.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands
-  Areas of Critical Environmental Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: South Shore Regional School  
 ADDRESS: 476 Webster Street  
 Hanover MA 02339  
 LAT/LONG: 42.146871 / 70.862396

CLIENT: O Reilly, Talbot & Okun  
 CONTACT: Bruce Nickelsen  
 INQUIRY #: 7444858.2s  
 DATE: September 14, 2023 4:55 pm

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Lists of Federal NPL (Superfund) sites</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal Delisted NPL sites</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal CERCLA sites with NFRAP</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal RCRA facilities undergoing Corrective Action</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal RCRA TSD facilities</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal RCRA generators</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250	1	0	1	NR	NR	NR	2
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>Lists of state- and tribal hazardous waste facilities</i></b>								
SHWS	1.000		1	0	0	26	NR	27
<b><i>Lists of state and tribal landfills and solid waste disposal facilities</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal leaking storage tanks</i></b>								
LUST	0.500		2	1	0	NR	NR	3

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LAST	0.500		0	1	0	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal registered storage tanks</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b><i>State and tribal institutional control / engineering control registries</i></b>								
INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal voluntary cleanup sites</i></b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal brownfield sites</i></b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b><i>Local Land Records</i></b>								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b><i>Records of Emergency Release Reports</i></b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
RELEASE	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	1	NR	NR	NR	NR	NR	1
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
<b><i>Other Ascertainable Records</i></b>								
RCRA NonGen / NLR	0.250		1	1	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP	2	NR	NR	NR	NR	NR	2
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP	2	NR	NR	NR	NR	NR	2
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP	1	NR	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AIRS	TP	1	NR	NR	NR	NR	NR	1
ASBESTOS	TP	5	NR	NR	NR	NR	NR	5
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0





Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

A1  
Target  
Property

SO SHORE REGIONAL VOCATIONAL HS  
476 WEBSTER ST.  
HANOVER, MA 02339

FINDS 1016101939  
ECHO N/A

Site 1 of 10 in cluster A

Actual:  
112 ft.

FINDS:  
Registry ID: 110070354362

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

The Massachusetts - Environmental Protection Integrated Computer System (MA-EPICS) is the central repository for all environmental protection data for the State of Massachusetts.

Registry ID: 110010401127

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

ICIS-Air (AIR) AIR is the modernization of the Air Facility System (AFS) into the Integrated Compliance Information System (ICIS). AIR contains enforcement, compliance, and permit data for stationary sources of air pollution regulated by the EPA, State, and Local air pollution agencies.

THE EMISSION INVENTORY SYSTEM (EIS) MAINTAINS AN INVENTORY OF LARGE STATIONARY SOURCES AND VOLUNTARILY-REPORTED SMALLER SOURCES OF AIR POINT POLLUTANT EMITTERS. IT CONTAINS INFORMATION ABOUT FACILITY SITES AND THEIR PHYSICAL LOCATION, EMISSIONS UNITS, EMISSIONS PROCESSES, RELEASE POINTS, CONTROL APPROACHES, AND REGULATIONS. FACILITY INVENTORY DATA ARE KEPT SEPARATE FROM THE EMISSIONS DATA AND HAVE STABLE IDENTIFIERS TO IMPROVE CONTINUITY FROM YEAR TO YEAR AND TO HELP IDENTIFY DUPLICATE OR MISSING FACILITIES

The Air Facility System (AFS) contains compliance and permit data for stationary sources of air pollution regulated by the EPA, state, and local air pollution agencies.

The Massachusetts - Environmental Protection Integrated Computer System (MA-EPICS) is the central repository for all environmental protection data for the State of Massachusetts.

The National Compliance Database (NCDB) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA).

The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1016101939  
Registry ID: 110010401127  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110010401127>  
Name: SO SHORE REGIONAL VOCATIONAL HS  
Address: 476 WEBSTER ST.  
City,State,Zip: HANOVER, MA 02339

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A2** SOUTH SHORE REGIONAL SCHOOL DISTRICT  
**Target** 476 WEBSTER STREET  
**Property** HANOVER, MA

**ASBESTOS** S122954735  
N/A

**Site 2 of 10 in cluster A**

**Actual:**  
**112 ft.**

ASBESTOS:  
Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
Address: 476 WEBSTER STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/09/2018  
End Date: 07/09/2018  
Date Entered: Not reported  
Entry Date: 06/01/2018  
Quantity Material Removed SF: .00  
Quantity Material Removed LF: 30.00  
Project Description: PIPEINSUL  
AR Tracking ID: 295200  
Super Lic Number: AS901702  
Monitor Lic Number: Not reported  
Lab Lic Number: AA000144  
Year: 2018  
Sticker Number: 100287762  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7814997433  
Sub Town: Not reported  
Worksite: ROOM 123 AND IT STORAGE  
Occupied: -1  
Contractor: AC000688  
Contract Type: WRITTEN  
Hours: 7AM-3:30PM  
Project Type: Repr  
Abatement Process: Glv,Fcontain  
Location: INDOORS  
Decon Process: 3 CHAMBER WITH FULLY FUNCTIONING SHOWER  
Disposal Methods: DOUBLE BAGGED AND PLACED INTO A LINED DUMPSTER  
Facility Usage: SCHOOL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
Owner Address: 476 WEBSTER STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: ROBERT MOOREHEAD  
On Site Manager Phone: 7818788822  
Ins Comp: GREAT DIVIDE INSURANCE  
Policy Number: WCA1528409018  
EXP Date: 1/1/2019  
Facility Size: 75000  
Transporter Name: RED TECHNOLOGIES  
Transporter Address: 10 NORTHWOOD DRIVE  
Transporter City: BLOOMFIELD  
Transporter State: CT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE REGIONAL SCHOOL DISTRICT (Continued)**

**S122954735**

Final Site: Not reported  
Certified Name: DEREK BAGGETT  
Cert Sign Date: 06/01/2018  
Certified Company: GREEN ENVIRONMENTAL INC  
Certified Phone: 6174790550  
Entered\_by: FERGUSON120

**A3  
Target  
Property**

**SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL  
476 WEBSTER STREET  
HANOVER, MA**

**ASBESTOS S122933421  
N/A**

**Site 3 of 10 in cluster A**

**Actual:  
112 ft.**

**ASBESTOS:**  
Name: SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL  
Address: 476 WEBSTER STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/06/2017  
End Date: 07/18/2017  
Date Entered: Not reported  
Entry Date: 07/14/2017  
Quantity Material Removed SF: 3000.00  
Quantity Material Removed LF: Not reported  
Project Description: OTHER WOOD FLOORING/MASTIC  
AR Tracking ID: 272142  
Super Lic Number: AS032368  
Monitor Lic Number: AA000232  
Lab Lic Number: AA000152  
Year: 2017  
Sticker Number: 100267408R  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7818788822  
Sub Town: Not reported  
Worksite: ROOM 112  
Occupied: 0  
Contractor: AC000684  
Contract Type: WRITTEN  
Hours: 07:00AM TO 05:30P.M.  
Project Type: Renv  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: 3 STAGE  
Disposal Methods: ASBESTOS WILL BE CONTAINERIZED IN A PROPER CONTAINER AND DISPOSED OF AT AN APPROVED LANDFILL.  
Facility Usage: SCHOOL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
Owner Address: 476 WEBSTER STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL (Continued)**

**S122933421**

On Site Manager Phone: 7818788822  
Ins Comp: ATLANTIC CHARTER  
Policy Number: WCV01198800  
EXP Date: 12/12/2017  
Facility Size: 90000  
Transporter Name: J.O.B. ROLL OFF  
Transporter Address: P.O. BOX 609  
Transporter City: HAMPSTEAD  
Transporter State: NH  
Final Site: Not reported  
Certified Name: BAHRAM SAFARPOORMONFARED  
Cert Sign Date: 07/14/2017  
Certified Company: FIBER CONTROL INC.  
Certified Phone: 6179223203  
Entered\_by: FCI15

Name: SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL  
Address: 476 WEBSTER STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/06/2017  
End Date: 07/20/2017  
Date Entered: Not reported  
Entry Date: 07/17/2017  
Quantity Material Removed SF: 3000.00  
Quantity Material Removed LF: Not reported  
Project Description: OTHER WOOD FLOORING/MASTIC  
AR Tracking ID: 272264  
Super Lic Number: AS032368  
Monitor Lic Number: AA000232  
Lab Lic Number: AA000152  
Year: 2017  
Sticker Number: 100267408R  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7818788822  
Sub Town: Not reported  
Worksite: ROOM 112  
Occupied: 0  
Contractor: AC000684  
Contract Type: WRITTEN  
Hours: 07:00AM TO 05:30P.M.  
Project Type: Renv  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: 3 STAGE  
Disposal Methods: ASBESTOS WILL BE CONTAINERIZED IN A PROPER CONTAINER AND DISPOSED OF AT AN APPROVED LANDFILL.

Facility Usage: SCHOOL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
Owner Address: 476 WEBSTER STREET

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL (Continued)**

**S122933421**

Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
On Site Manager Phone: 7818788822  
Ins Comp: ATLANTIC CHARTER  
Policy Number: WCV01198800  
EXP Date: 12/12/2017  
Facility Size: 90000  
Transporter Name: J.O.B. ROLL OFF  
Transporter Address: P.O. BOX 609  
Transporter City: HAMPSTEAD  
Transporter State: NH  
Final Site: Not reported  
Certified Name: BAHRAM SAFARPOORMONFARED  
Cert Sign Date: 07/17/2017  
Certified Company: FIBER CONTROL INC.  
Certified Phone: 6179223203  
Entered\_by: FCI15

Name: SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL  
Address: 476 WEBSTER STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/02/2019  
End Date: 08/02/2019  
Date Entered: Not reported  
Entry Date: 07/01/2019  
Quantity Material Removed SF: 4200  
Quantity Material Removed LF: 0  
Project Description: OTHER FLOOR TILE/MASTIC/COVEBAS  
AR Tracking ID: 323090  
Super Lic Number: AS000636  
Monitor Lic Number: AA000194  
Lab Lic Number: AA000194  
Year: 2019  
Sticker Number: 100310746R  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7818788822  
Sub Town: Not reported  
Worksite: THROUGHOUT  
Occupied: -1  
Contractor: AC000883  
Contract Type: WRITTEN  
Hours: 7AM-4PM  
Project Type: Dem,Renv  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT WITH FILTRATION UNIT  
Disposal Methods: ADEQUATELY WETTING OF ACM & DOUBLE BAGGING IN LABELED 6MIL BAGS  
Facility Usage: BUILDING  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: -1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL (Continued)**

**S122933421**

Owner Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
Owner Address: 476 WEBSTER STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: BOB MOORHEAD  
On Site Manager Phone: 7818788822  
Ins Comp: STATE NATIONAL INSURANCE COMPANY  
Policy Number: NFA0868254  
EXP Date: 4/12/2020  
Facility Size: 1000  
Transporter Name: SERVICE TRANSPORT  
Transporter Address: 301 OXFORD VALLEY ROAD STE. 803B  
Transporter City: YARDLY  
Transporter State: PA  
Final Site: Not reported  
Certified Name: ANNA OTTENWALDER  
Cert Sign Date: 07/01/2019  
Certified Company: ENCORE  
Certified Phone: 9782581744  
Entered\_by: ENCORE2015

Name: SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL  
Address: 476 WEBSTER STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/02/2019  
End Date: 08/02/2019  
Date Entered: Not reported  
Entry Date: 06/19/2019  
Quantity Material Removed SF: 4200  
Quantity Material Removed LF: 0  
Project Description: OTHER FLOOR TILE/MASTIC/COVEBAS  
AR Tracking ID: 322273  
Super Lic Number: AS000636  
Monitor Lic Number: AA000194  
Lab Lic Number: AA000194  
Year: 2019  
Sticker Number: 100310746  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7818788822  
Sub Town: Not reported  
Worksite: THROUGHOUT  
Occupied: -1  
Contractor: AC000883  
Contract Type: WRITTEN  
Hours: 7AM-4PM  
Project Type: Dem,Renv  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT WITH FILTRATION UNIT  
Disposal Methods: ADEQUATELY WETTING OF ACM & DOUBLE BAGGING IN LABELED 6MIL BAGS  
Facility Usage: BUILDING  
Waiver Given: Not reported  
DEP Waiver Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL (Continued)**

**S122933421**

DLWD Waiver Number: Not reported  
Small Owner Occ: -1  
Owner Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
Owner Address: 476 WEBSTER STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: BOB MOORHEAD  
On Site Manager Phone: 7818788822  
Ins Comp: STATE NATIONAL INSURANCE COMPANY  
Policy Number: NFA0868254  
EXP Date: 4/12/2020  
Facility Size: 1000  
Transporter Name: SERVICE TRANSPORT  
Transporter Address: 301 OXFORD VALLEY ROAD STE. 803B  
Transporter City: YARDLY  
Transporter State: PA  
Final Site: Not reported  
Certified Name: ANNA OTTENWALDER  
Cert Sign Date: 06/19/2019  
Certified Company: ENCORE  
Certified Phone: 9782581744  
Entered\_by: ENCORE2015

Name: SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL  
Address: 476 WEBSTER STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/06/2017  
End Date: 07/14/2017  
Date Entered: Not reported  
Entry Date: 07/14/2017  
Quantity Material Removed SF: 3000.00  
Quantity Material Removed LF: Not reported  
Project Description: OTHER WOOD FLOORING/MASTIC  
AR Tracking ID: 272132  
Super Lic Number: AS032368  
Monitor Lic Number: AA000232  
Lab Lic Number: AA000152  
Year: 2017  
Sticker Number: 100267408R  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7818788822  
Sub Town: Not reported  
Worksite: ROOM 112  
Occupied: 0  
Contractor: AC000684  
Contract Type: WRITTEN  
Hours: 02:00P.M.TO 12:00AM  
Project Type: Renv  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: 3 STAGE  
Disposal Methods: ASBESTOS WILL BE CONTAINERIZED IN A PROPER CONTAINER AND DISPOSED OF AT AN APPROVED LANDFILL.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL (Continued)**

**S122933421**

Facility Usage: SCHOOL  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
 Owner Address: 476 WEBSTER STREET  
 Owner City: HANOVER  
 Owner State: MA  
 On Site Manager Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
 On Site Manager Phone: 7818788822  
 Ins Comp: ATLANTIC CHARTER  
 Policy Number: WCV01198800  
 EXP Date: 12/12/2017  
 Facility Size: 90000  
 Transporter Name: J.O.B. ROLL OFF  
 Transporter Address: P.O. BOX 609  
 Transporter City: HAMPSTEAD  
 Transporter State: NH  
 Final Site: Not reported  
 Certified Name: BAHRAM SAFARPOORMONFARED  
 Cert Sign Date: 07/14/2017  
 Certified Company: FIBER CONTROL INC.  
 Certified Phone: 6179223203  
 Entered\_by: FCI15

**A4  
 Target  
 Property**

**SOUTH SHORE VOCATIONAL  
 476 WEBSTER ST  
 HANOVER, MA 02339**

**SPILLS  
 AIRS  
 ASBESTOS  
 HW GEN**

**S101046144  
 N/A**

**Site 4 of 10 in cluster A**

**Actual:  
 112 ft.**

MA Spills:		Spill ID:	S93-0232
Facility ID:	0000	Date Entered:	Not reported
Staff Lead:	PACKARD, R	First Response:	19930405
Last Entered:	19930412	Spill Time:	04:00PM
Spill Date:	19930405	Report Time:	09:15PM
Report Date:	19930405	Mat Type:	PETROLEUM
Case Closed:	YES	Contam Soil:	Not reported
Virgin Waste:	WASTE	Other Impact:	Not reported
Env Impact:	SOIL	Other Material:	Not reported
Material:	WASTE OIL	Qty Actual:	11-50
Qty Reported:	11-50	Qty Actual:	GALLONS
Qty Reported:	GALLONS	PCB Lev (ppm):	-----
CAS No:	Not reported	Other Source:	CONTAINERS
Source:	OTHER SOURCE >	Other Incdnt:	Not reported
Incident:	DUMPING	Contractor:	NOT USED
Cleanup Type:	---	LUST Elig:	NO
Referral:	NO	Category:	Not reported
Report Prep:	Not reported		
Notifier:	DENNIS MCGOVERN/CLEAN HARBORS		
Notif Tel:	Not reported		
Days/Close:	0		

**AIRS:**  
 AQID: 1192345  
 Name: SOUTH SHORE REGIONAL VOC HIGH SCHOOL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Address: 476 WEBSTER ST  
Address 2: Not reported  
City,State,Zip: HANOVER, MA 02339  
Branch: Not reported  
Facility Status: Not reported  
Permit Code: Not reported  
Permit Name: Not reported  
Owner Name: SO SHORE REGIONAL VOCATIONAL HS  
Region: Not reported  
Application Tracking Number: Not reported  
Facility Account: Not reported  
Date Closed: Not reported  
Applicant Name: Not reported  
Applicant Address: Not reported  
Applicant City: Not reported  
Applicant State: Not reported  
Applicant Zip: Not reported  
Applicant Telephone: Not reported  
Primary NAICS: Y  
NAICS Code: 611519  
NAICS Description: Other Technical and Trade Schools  
Latitude: 42.14089  
Longitude: -70.863591

**EMI:**

AQID: 1192345  
Pollutant: Not reported  
Actual Emission: Not reported  
Emission Year: 2013  
DEP Number: Not reported  
Facility Contact: Not reported  
Contact Telephone: Not reported  
Contact Email: Not reported  
Region Code: Not reported  
FMF ID: Not reported  
ORIS Code: Not reported  
AQ Class: Not reported  
NAICS Code: Not reported  
NAICS Description: Not reported  
DEP Stack Number: Not reported  
Stack Height: Not reported  
Stack Diameter: Not reported  
Stack Liner: Not reported  
Stack Max Temp: Not reported  
Stack Max Velocity: Not reported  
Stack Flow: Not reported  
DEP EU Number: Not reported  
Segment Number: Not reported  
Is Exempt From 702: Not reported  
Equipment Type Name: Not reported  
Manufacturer: Not reported  
Model Number: Not reported  
Installed Date: Not reported  
EU Decom Date: Not reported  
Max Input Rating: Not reported  
Approval Number: Not reported  
Approval Date: Not reported  
Q1 Operation Percent: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Q2 Operation Percent:	Not reported
Q3 Operation Percent:	Not reported
Q4 Operation Percent:	Not reported
Hours Daily:	Not reported
Days Weekly:	Not reported
Weeks Yearly:	Not reported
Type of Material:	Not reported
Case Number:	Not reported
Throughput Data:	Not reported
Sulfur Content Percent:	Not reported
Ash Content Percent:	Not reported
Operating Restrictions:	Not reported
SCC Code:	Not reported
SCC Description:	Not reported
Comments:	Not reported
P10 Act Amount:	Not reported
P10 Act UOM:	Not reported
P10 POT Amount:	Not reported
P10 POT UOM:	Not reported
P10 Per Amount:	Not reported
P10 Per UOM:	Not reported
SO2 Act Amount:	Not reported
SO2 Act UOM:	Not reported
SO2 POT Amount:	Not reported
SO2 POT UOM:	Not reported
SO2 Per Amount:	Not reported
SO2 Per UOM:	Not reported
NO2 Act Amount:	Not reported
NO2 Act UOM:	Not reported
NO2 POT Amount:	Not reported
NO2 POT UOM:	Not reported
NO2 Per Amount:	Not reported
NO2 Per UOM:	Not reported
CO Act Amount:	Not reported
CO Act UOM:	Not reported
CO POT Amount:	Not reported
CO POT UOM:	Not reported
CO Per Amount:	Not reported
CO Per UOM:	Not reported
VOC Act Amount:	Not reported
VOC Act UOM:	Not reported
VOC POT Amount:	Not reported
VOC POT UOM:	Not reported
VOC Per Amount:	Not reported
VOC Per UOM:	Not reported
PB Act Amount:	Not reported
PB Act UOM:	Not reported
PB POT Amount:	Not reported
PB POT UOM:	Not reported
PB Per Amount:	Not reported
PB Per UOM:	Not reported
P25 Act Amount:	Not reported
P25 Act UOM:	Not reported
P25 POT Amount:	Not reported
P25 POT UOM:	Not reported
P25 Per Amount:	Not reported
P25 Per UOM:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

NH3 Act Amount:	Not reported
NH3 Act UOM:	Not reported
NH3 POT Amount:	Not reported
NH3 POT UOM:	Not reported
NH3 Per Amount:	Not reported
NH3 Per UOM:	Not reported
Object ID:	Not reported
NAICS Code Count:	Not reported
Primary NAICS:	Not reported
Release Point:	Not reported
Stack Combined Units:	Not reported
Stack Decom Date:	Not reported
DEP Segment Number:	Not reported
Category Type:	Not reported
Emergency Gen:	Not reported
EU Combined Units:	Not reported
Chemical Name:	Not reported
Max Hourly Fuel Rating:	Not reported
Max UOM:	Not reported
Segment Decom Date:	Not reported
Actual Material Used:	Not reported
Actual Material Used UOM:	Not reported
P10 Annual Emission Restrictions:	Not reported
P25 Annual Emission Restrictions:	Not reported
SO2 Annual Emission Restrictions:	Not reported
NO2 Annual Emission Restrictions:	Not reported
CO Annual Emission Restrictions:	Not reported
PB Annual Emission Restrictions:	Not reported
NH3 Annual Emission Restrictions:	Not reported
VOC Annual Emission Restrictions:	Not reported
AQID:	1192345
Pollutant:	Not reported
Actual Emission:	Not reported
Emission Year:	2013
DEP Number:	Not reported
Facility Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Region Code:	Not reported
FMF ID:	Not reported
ORIS Code:	Not reported
AQ Class:	Not reported
NAICS Code:	Not reported
NAICS Description:	Not reported
DEP Stack Number:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Liner:	Not reported
Stack Max Temp:	Not reported
Stack Max Velocity:	Not reported
Stack Flow:	Not reported
DEP EU Number:	Not reported
Segment Number:	Not reported
Is Exempt From 702:	Not reported
Equipment Type Name:	Not reported
Manufacturer:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Model Number:	Not reported
Installed Date:	Not reported
EU Decom Date:	Not reported
Max Input Rating:	Not reported
Approval Number:	Not reported
Approval Date:	Not reported
Q1 Operation Percent:	Not reported
Q2 Operation Percent:	Not reported
Q3 Operation Percent:	Not reported
Q4 Operation Percent:	Not reported
Hours Daily:	Not reported
Days Weekly:	Not reported
Weeks Yearly:	Not reported
Type of Material:	Not reported
Case Number:	Not reported
Throughput Data:	Not reported
Sulfur Content Percent:	Not reported
Ash Content Percent:	Not reported
Operating Restrictions:	Not reported
SCC Code:	Not reported
SCC Description:	Not reported
Comments:	Not reported
P10 Act Amount:	Not reported
P10 Act UOM:	Not reported
P10 POT Amount:	Not reported
P10 POT UOM:	Not reported
P10 Per Amount:	Not reported
P10 Per UOM:	Not reported
SO2 Act Amount:	Not reported
SO2 Act UOM:	Not reported
SO2 POT Amount:	Not reported
SO2 POT UOM:	Not reported
SO2 Per Amount:	Not reported
SO2 Per UOM:	Not reported
NO2 Act Amount:	Not reported
NO2 Act UOM:	Not reported
NO2 POT Amount:	Not reported
NO2 POT UOM:	Not reported
NO2 Per Amount:	Not reported
NO2 Per UOM:	Not reported
CO Act Amount:	Not reported
CO Act UOM:	Not reported
CO POT Amount:	Not reported
CO POT UOM:	Not reported
CO Per Amount:	Not reported
CO Per UOM:	Not reported
VOC Act Amount:	Not reported
VOC Act UOM:	Not reported
VOC POT Amount:	Not reported
VOC POT UOM:	Not reported
VOC Per Amount:	Not reported
VOC Per UOM:	Not reported
PB Act Amount:	Not reported
PB Act UOM:	Not reported
PB POT Amount:	Not reported
PB POT UOM:	Not reported
PB Per Amount:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

PB Per UOM:	Not reported
P25 Act Amount:	Not reported
P25 Act UOM:	Not reported
P25 POT Amount:	Not reported
P25 POT UOM:	Not reported
P25 Per Amount:	Not reported
P25 Per UOM:	Not reported
NH3 Act Amount:	Not reported
NH3 Act UOM:	Not reported
NH3 POT Amount:	Not reported
NH3 POT UOM:	Not reported
NH3 Per Amount:	Not reported
NH3 Per UOM:	Not reported
Object ID:	Not reported
NAICS Code Count:	Not reported
Primary NAICS:	Not reported
Release Point:	Not reported
Stack Combined Units:	Not reported
Stack Decom Date:	Not reported
DEP Segment Number:	Not reported
Category Type:	Not reported
Emergency Gen:	Not reported
EU Combined Units:	Not reported
Chemical Name:	Not reported
Max Hourly Fuel Rating:	Not reported
Max UOM:	Not reported
Segment Decom Date:	Not reported
Actual Material Used:	Not reported
Actual Material Used UOM:	Not reported
P10 Annual Emission Restrictions:	Not reported
P25 Annual Emission Restrictions:	Not reported
SO2 Annual Emission Restrictions:	Not reported
NO2 Annual Emission Restrictions:	Not reported
CO Annual Emission Restrictions:	Not reported
PB Annual Emission Restrictions:	Not reported
NH3 Annual Emission Restrictions:	Not reported
VOC Annual Emission Restrictions:	Not reported
AQID:	1192345
Pollutant:	Not reported
Actual Emission:	Not reported
Emission Year:	2013
DEP Number:	Not reported
Facility Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Region Code:	Not reported
FMF ID:	Not reported
ORIS Code:	Not reported
AQ Class:	Not reported
NAICS Code:	Not reported
NAICS Description:	Not reported
DEP Stack Number:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Liner:	Not reported
Stack Max Temp:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Stack Max Velocity:	Not reported
Stack Flow:	Not reported
DEP EU Number:	Not reported
Segment Number:	Not reported
Is Exempt From 702:	Not reported
Equipment Type Name:	Not reported
Manufacturer:	Not reported
Model Number:	Not reported
Installed Date:	Not reported
EU Decom Date:	Not reported
Max Input Rating:	Not reported
Approval Number:	Not reported
Approval Date:	Not reported
Q1 Operation Percent:	Not reported
Q2 Operation Percent:	Not reported
Q3 Operation Percent:	Not reported
Q4 Operation Percent:	Not reported
Hours Daily:	Not reported
Days Weekly:	Not reported
Weeks Yearly:	Not reported
Type of Material:	Not reported
Case Number:	Not reported
Throughput Data:	Not reported
Sulfur Content Percent:	Not reported
Ash Content Percent:	Not reported
Operating Restrictions:	Not reported
SCC Code:	Not reported
SCC Description:	Not reported
Comments:	Not reported
P10 Act Amount:	Not reported
P10 Act UOM:	Not reported
P10 POT Amount:	Not reported
P10 POT UOM:	Not reported
P10 Per Amount:	Not reported
P10 Per UOM:	Not reported
SO2 Act Amount:	Not reported
SO2 Act UOM:	Not reported
SO2 POT Amount:	Not reported
SO2 POT UOM:	Not reported
SO2 Per Amount:	Not reported
SO2 Per UOM:	Not reported
NO2 Act Amount:	Not reported
NO2 Act UOM:	Not reported
NO2 POT Amount:	Not reported
NO2 POT UOM:	Not reported
NO2 Per Amount:	Not reported
NO2 Per UOM:	Not reported
CO Act Amount:	Not reported
CO Act UOM:	Not reported
CO POT Amount:	Not reported
CO POT UOM:	Not reported
CO Per Amount:	Not reported
CO Per UOM:	Not reported
VOC Act Amount:	Not reported
VOC Act UOM:	Not reported
VOC POT Amount:	Not reported
VOC POT UOM:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

VOC Per Amount:	Not reported
VOC Per UOM:	Not reported
PB Act Amount:	Not reported
PB Act UOM:	Not reported
PB POT Amount:	Not reported
PB POT UOM:	Not reported
PB Per Amount:	Not reported
PB Per UOM:	Not reported
P25 Act Amount:	Not reported
P25 Act UOM:	Not reported
P25 POT Amount:	Not reported
P25 POT UOM:	Not reported
P25 Per Amount:	Not reported
P25 Per UOM:	Not reported
NH3 Act Amount:	Not reported
NH3 Act UOM:	Not reported
NH3 POT Amount:	Not reported
NH3 POT UOM:	Not reported
NH3 Per Amount:	Not reported
NH3 Per UOM:	Not reported
Object ID:	Not reported
NAICS Code Count:	Not reported
Primary NAICS:	Not reported
Release Point:	Not reported
Stack Combined Units:	Not reported
Stack Decom Date:	Not reported
DEP Segment Number:	Not reported
Category Type:	Not reported
Emergency Gen:	Not reported
EU Combined Units:	Not reported
Chemical Name:	Not reported
Max Hourly Fuel Rating:	Not reported
Max UOM:	Not reported
Segment Decom Date:	Not reported
Actual Material Used:	Not reported
Actual Material Used UOM:	Not reported
P10 Annual Emission Restrictions:	Not reported
P25 Annual Emission Restrictions:	Not reported
SO2 Annual Emission Restrictions:	Not reported
NO2 Annual Emission Restrictions:	Not reported
CO Annual Emission Restrictions:	Not reported
PB Annual Emission Restrictions:	Not reported
NH3 Annual Emission Restrictions:	Not reported
VOC Annual Emission Restrictions:	Not reported
AQID:	1192345
Pollutant:	AMMONIA
Actual Emission:	0
Emission Year:	2013
DEP Number:	Not reported
Facility Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Region Code:	Not reported
FMF ID:	Not reported
ORIS Code:	Not reported
AQ Class:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

NAICS Code:	Not reported
NAICS Description:	Not reported
DEP Stack Number:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Liner:	Not reported
Stack Max Temp:	Not reported
Stack Max Velocity:	Not reported
Stack Flow:	Not reported
DEP EU Number:	Not reported
Segment Number:	Not reported
Is Exempt From 702:	Not reported
Equipment Type Name:	Not reported
Manufacturer:	Not reported
Model Number:	Not reported
Installed Date:	Not reported
EU Decom Date:	Not reported
Max Input Rating:	Not reported
Approval Number:	Not reported
Approval Date:	Not reported
Q1 Operation Percent:	Not reported
Q2 Operation Percent:	Not reported
Q3 Operation Percent:	Not reported
Q4 Operation Percent:	Not reported
Hours Daily:	Not reported
Days Weekly:	Not reported
Weeks Yearly:	Not reported
Type of Material:	Not reported
Case Number:	Not reported
Throughput Data:	Not reported
Sulfur Content Percent:	Not reported
Ash Content Percent:	Not reported
Operating Restrictions:	Not reported
SCC Code:	Not reported
SCC Description:	Not reported
Comments:	Not reported
P10 Act Amount:	Not reported
P10 Act UOM:	Not reported
P10 POT Amount:	Not reported
P10 POT UOM:	Not reported
P10 Per Amount:	Not reported
P10 Per UOM:	Not reported
SO2 Act Amount:	Not reported
SO2 Act UOM:	Not reported
SO2 POT Amount:	Not reported
SO2 POT UOM:	Not reported
SO2 Per Amount:	Not reported
SO2 Per UOM:	Not reported
NO2 Act Amount:	Not reported
NO2 Act UOM:	Not reported
NO2 POT Amount:	Not reported
NO2 POT UOM:	Not reported
NO2 Per Amount:	Not reported
NO2 Per UOM:	Not reported
CO Act Amount:	Not reported
CO Act UOM:	Not reported
CO POT Amount:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

CO POT UOM:	Not reported
CO Per Amount:	Not reported
CO Per UOM:	Not reported
VOC Act Amount:	Not reported
VOC Act UOM:	Not reported
VOC POT Amount:	Not reported
VOC POT UOM:	Not reported
VOC Per Amount:	Not reported
VOC Per UOM:	Not reported
PB Act Amount:	Not reported
PB Act UOM:	Not reported
PB POT Amount:	Not reported
PB POT UOM:	Not reported
PB Per Amount:	Not reported
PB Per UOM:	Not reported
P25 Act Amount:	Not reported
P25 Act UOM:	Not reported
P25 POT Amount:	Not reported
P25 POT UOM:	Not reported
P25 Per Amount:	Not reported
P25 Per UOM:	Not reported
NH3 Act Amount:	Not reported
NH3 Act UOM:	Not reported
NH3 POT Amount:	Not reported
NH3 POT UOM:	Not reported
NH3 Per Amount:	Not reported
NH3 Per UOM:	Not reported
Object ID:	Not reported
NAICS Code Count:	Not reported
Primary NAICS:	Not reported
Release Point:	Not reported
Stack Combined Units:	Not reported
Stack Decom Date:	Not reported
DEP Segment Number:	Not reported
Category Type:	Not reported
Emergency Gen:	Not reported
EU Combined Units:	Not reported
Chemical Name:	Not reported
Max Hourly Fuel Rating:	Not reported
Max UOM:	Not reported
Segment Decom Date:	Not reported
Actual Material Used:	Not reported
Actual Material Used UOM:	Not reported
P10 Annual Emission Restrictions:	Not reported
P25 Annual Emission Restrictions:	Not reported
SO2 Annual Emission Restrictions:	Not reported
NO2 Annual Emission Restrictions:	Not reported
CO Annual Emission Restrictions:	Not reported
PB Annual Emission Restrictions:	Not reported
NH3 Annual Emission Restrictions:	Not reported
VOC Annual Emission Restrictions:	Not reported
AQID:	1192345
Pollutant:	CARBON MONOXIDE
Actual Emission:	0.0001
Emission Year:	2013
DEP Number:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Facility Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Region Code:	Not reported
FMF ID:	Not reported
ORIS Code:	Not reported
AQ Class:	Not reported
NAICS Code:	Not reported
NAICS Description:	Not reported
DEP Stack Number:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Liner:	Not reported
Stack Max Temp:	Not reported
Stack Max Velocity:	Not reported
Stack Flow:	Not reported
DEP EU Number:	Not reported
Segment Number:	Not reported
Is Exempt From 702:	Not reported
Equipment Type Name:	Not reported
Manufacturer:	Not reported
Model Number:	Not reported
Installed Date:	Not reported
EU Decom Date:	Not reported
Max Input Rating:	Not reported
Approval Number:	Not reported
Approval Date:	Not reported
Q1 Operation Percent:	Not reported
Q2 Operation Percent:	Not reported
Q3 Operation Percent:	Not reported
Q4 Operation Percent:	Not reported
Hours Daily:	Not reported
Days Weekly:	Not reported
Weeks Yearly:	Not reported
Type of Material:	Not reported
Case Number:	Not reported
Throughput Data:	Not reported
Sulfur Content Percent:	Not reported
Ash Content Percent:	Not reported
Operating Restrictions:	Not reported
SCC Code:	Not reported
SCC Description:	Not reported
Comments:	Not reported
P10 Act Amount:	Not reported
P10 Act UOM:	Not reported
P10 POT Amount:	Not reported
P10 POT UOM:	Not reported
P10 Per Amount:	Not reported
P10 Per UOM:	Not reported
SO2 Act Amount:	Not reported
SO2 Act UOM:	Not reported
SO2 POT Amount:	Not reported
SO2 POT UOM:	Not reported
SO2 Per Amount:	Not reported
SO2 Per UOM:	Not reported
NO2 Act Amount:	Not reported
NO2 Act UOM:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

NO2 POT Amount:	Not reported
NO2 POT UOM:	Not reported
NO2 Per Amount:	Not reported
NO2 Per UOM:	Not reported
CO Act Amount:	Not reported
CO Act UOM:	Not reported
CO POT Amount:	Not reported
CO POT UOM:	Not reported
CO Per Amount:	Not reported
CO Per UOM:	Not reported
VOC Act Amount:	Not reported
VOC Act UOM:	Not reported
VOC POT Amount:	Not reported
VOC POT UOM:	Not reported
VOC Per Amount:	Not reported
VOC Per UOM:	Not reported
PB Act Amount:	Not reported
PB Act UOM:	Not reported
PB POT Amount:	Not reported
PB POT UOM:	Not reported
PB Per Amount:	Not reported
PB Per UOM:	Not reported
P25 Act Amount:	Not reported
P25 Act UOM:	Not reported
P25 POT Amount:	Not reported
P25 POT UOM:	Not reported
P25 Per Amount:	Not reported
P25 Per UOM:	Not reported
NH3 Act Amount:	Not reported
NH3 Act UOM:	Not reported
NH3 POT Amount:	Not reported
NH3 POT UOM:	Not reported
NH3 Per Amount:	Not reported
NH3 Per UOM:	Not reported
Object ID:	Not reported
NAICS Code Count:	Not reported
Primary NAICS:	Not reported
Release Point:	Not reported
Stack Combined Units:	Not reported
Stack Decom Date:	Not reported
DEP Segment Number:	Not reported
Category Type:	Not reported
Emergency Gen:	Not reported
EU Combined Units:	Not reported
Chemical Name:	Not reported
Max Hourly Fuel Rating:	Not reported
Max UOM:	Not reported
Segment Decom Date:	Not reported
Actual Material Used:	Not reported
Actual Material Used UOM:	Not reported
P10 Annual Emission Restrictions:	Not reported
P25 Annual Emission Restrictions:	Not reported
SO2 Annual Emission Restrictions:	Not reported
NO2 Annual Emission Restrictions:	Not reported
CO Annual Emission Restrictions:	Not reported
PB Annual Emission Restrictions:	Not reported
NH3 Annual Emission Restrictions:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

VOC Annual Emission Restrictions:	Not reported
AQID:	1192345
Pollutant:	HALOGENATED ORGANIC COMPOUND
Actual Emission:	0
Emission Year:	2013
DEP Number:	Not reported
Facility Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Region Code:	Not reported
FMF ID:	Not reported
ORIS Code:	Not reported
AQ Class:	Not reported
NAICS Code:	Not reported
NAICS Description:	Not reported
DEP Stack Number:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Liner:	Not reported
Stack Max Temp:	Not reported
Stack Max Velocity:	Not reported
Stack Flow:	Not reported
DEP EU Number:	Not reported
Segment Number:	Not reported
Is Exempt From 702:	Not reported
Equipment Type Name:	Not reported
Manufacturer:	Not reported
Model Number:	Not reported
Installed Date:	Not reported
EU Decom Date:	Not reported
Max Input Rating:	Not reported
Approval Number:	Not reported
Approval Date:	Not reported
Q1 Operation Percent:	Not reported
Q2 Operation Percent:	Not reported
Q3 Operation Percent:	Not reported
Q4 Operation Percent:	Not reported
Hours Daily:	Not reported
Days Weekly:	Not reported
Weeks Yearly:	Not reported
Type of Material:	Not reported
Case Number:	Not reported
Throughput Data:	Not reported
Sulfur Content Percent:	Not reported
Ash Content Percent:	Not reported
Operating Restrictions:	Not reported
SCC Code:	Not reported
SCC Description:	Not reported
Comments:	Not reported
P10 Act Amount:	Not reported
P10 Act UOM:	Not reported
P10 POT Amount:	Not reported
P10 POT UOM:	Not reported
P10 Per Amount:	Not reported
P10 Per UOM:	Not reported
SO2 Act Amount:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

SO2 Act UOM:	Not reported
SO2 POT Amount:	Not reported
SO2 POT UOM:	Not reported
SO2 Per Amount:	Not reported
SO2 Per UOM:	Not reported
NO2 Act Amount:	Not reported
NO2 Act UOM:	Not reported
NO2 POT Amount:	Not reported
NO2 POT UOM:	Not reported
NO2 Per Amount:	Not reported
NO2 Per UOM:	Not reported
CO Act Amount:	Not reported
CO Act UOM:	Not reported
CO POT Amount:	Not reported
CO POT UOM:	Not reported
CO Per Amount:	Not reported
CO Per UOM:	Not reported
VOC Act Amount:	Not reported
VOC Act UOM:	Not reported
VOC POT Amount:	Not reported
VOC POT UOM:	Not reported
VOC Per Amount:	Not reported
VOC Per UOM:	Not reported
PB Act Amount:	Not reported
PB Act UOM:	Not reported
PB POT Amount:	Not reported
PB POT UOM:	Not reported
PB Per Amount:	Not reported
PB Per UOM:	Not reported
P25 Act Amount:	Not reported
P25 Act UOM:	Not reported
P25 POT Amount:	Not reported
P25 POT UOM:	Not reported
P25 Per Amount:	Not reported
P25 Per UOM:	Not reported
NH3 Act Amount:	Not reported
NH3 Act UOM:	Not reported
NH3 POT Amount:	Not reported
NH3 POT UOM:	Not reported
NH3 Per Amount:	Not reported
NH3 Per UOM:	Not reported
Object ID:	Not reported
NAICS Code Count:	Not reported
Primary NAICS:	Not reported
Release Point:	Not reported
Stack Combined Units:	Not reported
Stack Decom Date:	Not reported
DEP Segment Number:	Not reported
Category Type:	Not reported
Emergency Gen:	Not reported
EU Combined Units:	Not reported
Chemical Name:	Not reported
Max Hourly Fuel Rating:	Not reported
Max UOM:	Not reported
Segment Decom Date:	Not reported
Actual Material Used:	Not reported
Actual Material Used UOM:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

P10 Annual Emission Restrictions:	Not reported
P25 Annual Emission Restrictions:	Not reported
SO2 Annual Emission Restrictions:	Not reported
NO2 Annual Emission Restrictions:	Not reported
CO Annual Emission Restrictions:	Not reported
PB Annual Emission Restrictions:	Not reported
NH3 Annual Emission Restrictions:	Not reported
VOC Annual Emission Restrictions:	Not reported
AQID:	1192345
Pollutant:	HYDROCARBON
Actual Emission:	0
Emission Year:	2013
DEP Number:	Not reported
Facility Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Region Code:	Not reported
FMF ID:	Not reported
ORIS Code:	Not reported
AQ Class:	Not reported
NAICS Code:	Not reported
NAICS Description:	Not reported
DEP Stack Number:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Liner:	Not reported
Stack Max Temp:	Not reported
Stack Max Velocity:	Not reported
Stack Flow:	Not reported
DEP EU Number:	Not reported
Segment Number:	Not reported
Is Exempt From 702:	Not reported
Equipment Type Name:	Not reported
Manufacturer:	Not reported
Model Number:	Not reported
Installed Date:	Not reported
EU Decom Date:	Not reported
Max Input Rating:	Not reported
Approval Number:	Not reported
Approval Date:	Not reported
Q1 Operation Percent:	Not reported
Q2 Operation Percent:	Not reported
Q3 Operation Percent:	Not reported
Q4 Operation Percent:	Not reported
Hours Daily:	Not reported
Days Weekly:	Not reported
Weeks Yearly:	Not reported
Type of Material:	Not reported
Case Number:	Not reported
Throughput Data:	Not reported
Sulfur Content Percent:	Not reported
Ash Content Percent:	Not reported
Operating Restrictions:	Not reported
SCC Code:	Not reported
SCC Description:	Not reported
Comments:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

P10 Act Amount:	Not reported
P10 Act UOM:	Not reported
P10 POT Amount:	Not reported
P10 POT UOM:	Not reported
P10 Per Amount:	Not reported
P10 Per UOM:	Not reported
SO2 Act Amount:	Not reported
SO2 Act UOM:	Not reported
SO2 POT Amount:	Not reported
SO2 POT UOM:	Not reported
SO2 Per Amount:	Not reported
SO2 Per UOM:	Not reported
NO2 Act Amount:	Not reported
NO2 Act UOM:	Not reported
NO2 POT Amount:	Not reported
NO2 POT UOM:	Not reported
NO2 Per Amount:	Not reported
NO2 Per UOM:	Not reported
CO Act Amount:	Not reported
CO Act UOM:	Not reported
CO POT Amount:	Not reported
CO POT UOM:	Not reported
CO Per Amount:	Not reported
CO Per UOM:	Not reported
VOC Act Amount:	Not reported
VOC Act UOM:	Not reported
VOC POT Amount:	Not reported
VOC POT UOM:	Not reported
VOC Per Amount:	Not reported
VOC Per UOM:	Not reported
PB Act Amount:	Not reported
PB Act UOM:	Not reported
PB POT Amount:	Not reported
PB POT UOM:	Not reported
PB Per Amount:	Not reported
PB Per UOM:	Not reported
P25 Act Amount:	Not reported
P25 Act UOM:	Not reported
P25 POT Amount:	Not reported
P25 POT UOM:	Not reported
P25 Per Amount:	Not reported
P25 Per UOM:	Not reported
NH3 Act Amount:	Not reported
NH3 Act UOM:	Not reported
NH3 POT Amount:	Not reported
NH3 POT UOM:	Not reported
NH3 Per Amount:	Not reported
NH3 Per UOM:	Not reported
Object ID:	Not reported
NAICS Code Count:	Not reported
Primary NAICS:	Not reported
Release Point:	Not reported
Stack Combined Units:	Not reported
Stack Decom Date:	Not reported
DEP Segment Number:	Not reported
Category Type:	Not reported
Emergency Gen:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

EU Combined Units:	Not reported
Chemical Name:	Not reported
Max Hourly Fuel Rating:	Not reported
Max UOM:	Not reported
Segment Decom Date:	Not reported
Actual Material Used:	Not reported
Actual Material Used UOM:	Not reported
P10 Annual Emission Restrictions:	Not reported
P25 Annual Emission Restrictions:	Not reported
SO2 Annual Emission Restrictions:	Not reported
NO2 Annual Emission Restrictions:	Not reported
CO Annual Emission Restrictions:	Not reported
PB Annual Emission Restrictions:	Not reported
NH3 Annual Emission Restrictions:	Not reported
VOC Annual Emission Restrictions:	Not reported
AQID:	1192345
Pollutant:	NITROGEN OXIDES (NOx)
Actual Emission:	0.0003
Emission Year:	2013
DEP Number:	Not reported
Facility Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Region Code:	Not reported
FMF ID:	Not reported
ORIS Code:	Not reported
AQ Class:	Not reported
NAICS Code:	Not reported
NAICS Description:	Not reported
DEP Stack Number:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Liner:	Not reported
Stack Max Temp:	Not reported
Stack Max Velocity:	Not reported
Stack Flow:	Not reported
DEP EU Number:	Not reported
Segment Number:	Not reported
Is Exempt From 702:	Not reported
Equipment Type Name:	Not reported
Manufacturer:	Not reported
Model Number:	Not reported
Installed Date:	Not reported
EU Decom Date:	Not reported
Max Input Rating:	Not reported
Approval Number:	Not reported
Approval Date:	Not reported
Q1 Operation Percent:	Not reported
Q2 Operation Percent:	Not reported
Q3 Operation Percent:	Not reported
Q4 Operation Percent:	Not reported
Hours Daily:	Not reported
Days Weekly:	Not reported
Weeks Yearly:	Not reported
Type of Material:	Not reported
Case Number:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Throughput Data:	Not reported
Sulfur Content Percent:	Not reported
Ash Content Percent:	Not reported
Operating Restrictions:	Not reported
SCC Code:	Not reported
SCC Description:	Not reported
Comments:	Not reported
P10 Act Amount:	Not reported
P10 Act UOM:	Not reported
P10 POT Amount:	Not reported
P10 POT UOM:	Not reported
P10 Per Amount:	Not reported
P10 Per UOM:	Not reported
SO2 Act Amount:	Not reported
SO2 Act UOM:	Not reported
SO2 POT Amount:	Not reported
SO2 POT UOM:	Not reported
SO2 Per Amount:	Not reported
SO2 Per UOM:	Not reported
NO2 Act Amount:	Not reported
NO2 Act UOM:	Not reported
NO2 POT Amount:	Not reported
NO2 POT UOM:	Not reported
NO2 Per Amount:	Not reported
NO2 Per UOM:	Not reported
CO Act Amount:	Not reported
CO Act UOM:	Not reported
CO POT Amount:	Not reported
CO POT UOM:	Not reported
CO Per Amount:	Not reported
CO Per UOM:	Not reported
VOC Act Amount:	Not reported
VOC Act UOM:	Not reported
VOC POT Amount:	Not reported
VOC POT UOM:	Not reported
VOC Per Amount:	Not reported
VOC Per UOM:	Not reported
PB Act Amount:	Not reported
PB Act UOM:	Not reported
PB POT Amount:	Not reported
PB POT UOM:	Not reported
PB Per Amount:	Not reported
PB Per UOM:	Not reported
P25 Act Amount:	Not reported
P25 Act UOM:	Not reported
P25 POT Amount:	Not reported
P25 POT UOM:	Not reported
P25 Per Amount:	Not reported
P25 Per UOM:	Not reported
NH3 Act Amount:	Not reported
NH3 Act UOM:	Not reported
NH3 POT Amount:	Not reported
NH3 POT UOM:	Not reported
NH3 Per Amount:	Not reported
NH3 Per UOM:	Not reported
Object ID:	Not reported
NAICS Code Count:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Primary NAICS:	Not reported
Release Point:	Not reported
Stack Combined Units:	Not reported
Stack Decom Date:	Not reported
DEP Segment Number:	Not reported
Category Type:	Not reported
Emergency Gen:	Not reported
EU Combined Units:	Not reported
Chemical Name:	Not reported
Max Hourly Fuel Rating:	Not reported
Max UOM:	Not reported
Segment Decom Date:	Not reported
Actual Material Used:	Not reported
Actual Material Used UOM:	Not reported
P10 Annual Emission Restrictions:	Not reported
P25 Annual Emission Restrictions:	Not reported
SO2 Annual Emission Restrictions:	Not reported
NO2 Annual Emission Restrictions:	Not reported
CO Annual Emission Restrictions:	Not reported
PB Annual Emission Restrictions:	Not reported
NH3 Annual Emission Restrictions:	Not reported
VOC Annual Emission Restrictions:	Not reported
AQID:	1192345
Pollutant:	PM10, FILTERABLE
Actual Emission:	0
Emission Year:	2013
DEP Number:	Not reported
Facility Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Region Code:	Not reported
FMF ID:	Not reported
ORIS Code:	Not reported
AQ Class:	Not reported
NAICS Code:	Not reported
NAICS Description:	Not reported
DEP Stack Number:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Liner:	Not reported
Stack Max Temp:	Not reported
Stack Max Velocity:	Not reported
Stack Flow:	Not reported
DEP EU Number:	Not reported
Segment Number:	Not reported
Is Exempt From 702:	Not reported
Equipment Type Name:	Not reported
Manufacturer:	Not reported
Model Number:	Not reported
Installed Date:	Not reported
EU Decom Date:	Not reported
Max Input Rating:	Not reported
Approval Number:	Not reported
Approval Date:	Not reported
Q1 Operation Percent:	Not reported
Q2 Operation Percent:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Q3 Operation Percent:	Not reported
Q4 Operation Percent:	Not reported
Hours Daily:	Not reported
Days Weekly:	Not reported
Weeks Yearly:	Not reported
Type of Material:	Not reported
Case Number:	Not reported
Throughput Data:	Not reported
Sulfur Content Percent:	Not reported
Ash Content Percent:	Not reported
Operating Restrictions:	Not reported
SCC Code:	Not reported
SCC Description:	Not reported
Comments:	Not reported
P10 Act Amount:	Not reported
P10 Act UOM:	Not reported
P10 POT Amount:	Not reported
P10 POT UOM:	Not reported
P10 Per Amount:	Not reported
P10 Per UOM:	Not reported
SO2 Act Amount:	Not reported
SO2 Act UOM:	Not reported
SO2 POT Amount:	Not reported
SO2 POT UOM:	Not reported
SO2 Per Amount:	Not reported
SO2 Per UOM:	Not reported
NO2 Act Amount:	Not reported
NO2 Act UOM:	Not reported
NO2 POT Amount:	Not reported
NO2 POT UOM:	Not reported
NO2 Per Amount:	Not reported
NO2 Per UOM:	Not reported
CO Act Amount:	Not reported
CO Act UOM:	Not reported
CO POT Amount:	Not reported
CO POT UOM:	Not reported
CO Per Amount:	Not reported
CO Per UOM:	Not reported
VOC Act Amount:	Not reported
VOC Act UOM:	Not reported
VOC POT Amount:	Not reported
VOC POT UOM:	Not reported
VOC Per Amount:	Not reported
VOC Per UOM:	Not reported
PB Act Amount:	Not reported
PB Act UOM:	Not reported
PB POT Amount:	Not reported
PB POT UOM:	Not reported
PB Per Amount:	Not reported
PB Per UOM:	Not reported
P25 Act Amount:	Not reported
P25 Act UOM:	Not reported
P25 POT Amount:	Not reported
P25 POT UOM:	Not reported
P25 Per Amount:	Not reported
P25 Per UOM:	Not reported
NH3 Act Amount:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

NH3 Act UOM: Not reported  
NH3 POT Amount: Not reported  
NH3 POT UOM: Not reported  
NH3 Per Amount: Not reported  
NH3 Per UOM: Not reported  
Object ID: Not reported  
NAICS Code Count: Not reported  
Primary NAICS: Not reported  
Release Point: Not reported  
Stack Combined Units: Not reported  
Stack Decom Date: Not reported  
DEP Segment Number: Not reported  
Category Type: Not reported  
Emergency Gen: Not reported  
EU Combined Units: Not reported  
Chemical Name: Not reported  
Max Hourly Fuel Rating: Not reported  
Max UOM: Not reported  
Segment Decom Date: Not reported  
Actual Material Used: Not reported  
Actual Material Used UOM: Not reported  
P10 Annual Emission Restrictions: Not reported  
P25 Annual Emission Restrictions: Not reported  
SO2 Annual Emission Restrictions: Not reported  
NO2 Annual Emission Restrictions: Not reported  
CO Annual Emission Restrictions: Not reported  
PB Annual Emission Restrictions: Not reported  
NH3 Annual Emission Restrictions: Not reported  
VOC Annual Emission Restrictions: Not reported

AQID: 1192345  
Pollutant: PM2.5, FILTERABLE  
Actual Emission: 0  
Emission Year: 2013  
DEP Number: Not reported  
Facility Contact: Not reported  
Contact Telephone: Not reported  
Contact Email: Not reported  
Region Code: Not reported  
FMF ID: Not reported  
ORIS Code: Not reported  
AQ Class: Not reported  
NAICS Code: Not reported  
NAICS Description: Not reported  
DEP Stack Number: Not reported  
Stack Height: Not reported  
Stack Diameter: Not reported  
Stack Liner: Not reported  
Stack Max Temp: Not reported  
Stack Max Velocity: Not reported  
Stack Flow: Not reported  
DEP EU Number: Not reported  
Segment Number: Not reported  
Is Exempt From 702: Not reported  
Equipment Type Name: Not reported  
Manufacturer: Not reported  
Model Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Installed Date:	Not reported
EU Decom Date:	Not reported
Max Input Rating:	Not reported
Approval Number:	Not reported
Approval Date:	Not reported
Q1 Operation Percent:	Not reported
Q2 Operation Percent:	Not reported
Q3 Operation Percent:	Not reported
Q4 Operation Percent:	Not reported
Hours Daily:	Not reported
Days Weekly:	Not reported
Weeks Yearly:	Not reported
Type of Material:	Not reported
Case Number:	Not reported
Throughput Data:	Not reported
Sulfur Content Percent:	Not reported
Ash Content Percent:	Not reported
Operating Restrictions:	Not reported
SCC Code:	Not reported
SCC Description:	Not reported
Comments:	Not reported
P10 Act Amount:	Not reported
P10 Act UOM:	Not reported
P10 POT Amount:	Not reported
P10 POT UOM:	Not reported
P10 Per Amount:	Not reported
P10 Per UOM:	Not reported
SO2 Act Amount:	Not reported
SO2 Act UOM:	Not reported
SO2 POT Amount:	Not reported
SO2 POT UOM:	Not reported
SO2 Per Amount:	Not reported
SO2 Per UOM:	Not reported
NO2 Act Amount:	Not reported
NO2 Act UOM:	Not reported
NO2 POT Amount:	Not reported
NO2 POT UOM:	Not reported
NO2 Per Amount:	Not reported
NO2 Per UOM:	Not reported
CO Act Amount:	Not reported
CO Act UOM:	Not reported
CO POT Amount:	Not reported
CO POT UOM:	Not reported
CO Per Amount:	Not reported
CO Per UOM:	Not reported
VOC Act Amount:	Not reported
VOC Act UOM:	Not reported
VOC POT Amount:	Not reported
VOC POT UOM:	Not reported
VOC Per Amount:	Not reported
VOC Per UOM:	Not reported
PB Act Amount:	Not reported
PB Act UOM:	Not reported
PB POT Amount:	Not reported
PB POT UOM:	Not reported
PB Per Amount:	Not reported
PB Per UOM:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

P25 Act Amount:	Not reported
P25 Act UOM:	Not reported
P25 POT Amount:	Not reported
P25 POT UOM:	Not reported
P25 Per Amount:	Not reported
P25 Per UOM:	Not reported
NH3 Act Amount:	Not reported
NH3 Act UOM:	Not reported
NH3 POT Amount:	Not reported
NH3 POT UOM:	Not reported
NH3 Per Amount:	Not reported
NH3 Per UOM:	Not reported
Object ID:	Not reported
NAICS Code Count:	Not reported
Primary NAICS:	Not reported
Release Point:	Not reported
Stack Combined Units:	Not reported
Stack Decom Date:	Not reported
DEP Segment Number:	Not reported
Category Type:	Not reported
Emergency Gen:	Not reported
EU Combined Units:	Not reported
Chemical Name:	Not reported
Max Hourly Fuel Rating:	Not reported
Max UOM:	Not reported
Segment Decom Date:	Not reported
Actual Material Used:	Not reported
Actual Material Used UOM:	Not reported
P10 Annual Emission Restrictions:	Not reported
P25 Annual Emission Restrictions:	Not reported
SO2 Annual Emission Restrictions:	Not reported
NO2 Annual Emission Restrictions:	Not reported
CO Annual Emission Restrictions:	Not reported
PB Annual Emission Restrictions:	Not reported
NH3 Annual Emission Restrictions:	Not reported
VOC Annual Emission Restrictions:	Not reported
AQID:	1192345
Pollutant:	SULFUR DIOXIDE
Actual Emission:	0.002
Emission Year:	2013
DEP Number:	Not reported
Facility Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Region Code:	Not reported
FMF ID:	Not reported
ORIS Code:	Not reported
AQ Class:	Not reported
NAICS Code:	Not reported
NAICS Description:	Not reported
DEP Stack Number:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Liner:	Not reported
Stack Max Temp:	Not reported
Stack Max Velocity:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Stack Flow:	Not reported
DEP EU Number:	Not reported
Segment Number:	Not reported
Is Exempt From 702:	Not reported
Equipment Type Name:	Not reported
Manufacturer:	Not reported
Model Number:	Not reported
Installed Date:	Not reported
EU Decom Date:	Not reported
Max Input Rating:	Not reported
Approval Number:	Not reported
Approval Date:	Not reported
Q1 Operation Percent:	Not reported
Q2 Operation Percent:	Not reported
Q3 Operation Percent:	Not reported
Q4 Operation Percent:	Not reported
Hours Daily:	Not reported
Days Weekly:	Not reported
Weeks Yearly:	Not reported
Type of Material:	Not reported
Case Number:	Not reported
Throughput Data:	Not reported
Sulfur Content Percent:	Not reported
Ash Content Percent:	Not reported
Operating Restrictions:	Not reported
SCC Code:	Not reported
SCC Description:	Not reported
Comments:	Not reported
P10 Act Amount:	Not reported
P10 Act UOM:	Not reported
P10 POT Amount:	Not reported
P10 POT UOM:	Not reported
P10 Per Amount:	Not reported
P10 Per UOM:	Not reported
SO2 Act Amount:	Not reported
SO2 Act UOM:	Not reported
SO2 POT Amount:	Not reported
SO2 POT UOM:	Not reported
SO2 Per Amount:	Not reported
SO2 Per UOM:	Not reported
NO2 Act Amount:	Not reported
NO2 Act UOM:	Not reported
NO2 POT Amount:	Not reported
NO2 POT UOM:	Not reported
NO2 Per Amount:	Not reported
NO2 Per UOM:	Not reported
CO Act Amount:	Not reported
CO Act UOM:	Not reported
CO POT Amount:	Not reported
CO POT UOM:	Not reported
CO Per Amount:	Not reported
CO Per UOM:	Not reported
VOC Act Amount:	Not reported
VOC Act UOM:	Not reported
VOC POT Amount:	Not reported
VOC POT UOM:	Not reported
VOC Per Amount:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

VOC Per UOM:	Not reported
PB Act Amount:	Not reported
PB Act UOM:	Not reported
PB POT Amount:	Not reported
PB POT UOM:	Not reported
PB Per Amount:	Not reported
PB Per UOM:	Not reported
P25 Act Amount:	Not reported
P25 Act UOM:	Not reported
P25 POT Amount:	Not reported
P25 POT UOM:	Not reported
P25 Per Amount:	Not reported
P25 Per UOM:	Not reported
NH3 Act Amount:	Not reported
NH3 Act UOM:	Not reported
NH3 POT Amount:	Not reported
NH3 POT UOM:	Not reported
NH3 Per Amount:	Not reported
NH3 Per UOM:	Not reported
Object ID:	Not reported
NAICS Code Count:	Not reported
Primary NAICS:	Not reported
Release Point:	Not reported
Stack Combined Units:	Not reported
Stack Decom Date:	Not reported
DEP Segment Number:	Not reported
Category Type:	Not reported
Emergency Gen:	Not reported
EU Combined Units:	Not reported
Chemical Name:	Not reported
Max Hourly Fuel Rating:	Not reported
Max UOM:	Not reported
Segment Decom Date:	Not reported
Actual Material Used:	Not reported
Actual Material Used UOM:	Not reported
P10 Annual Emission Restrictions:	Not reported
P25 Annual Emission Restrictions:	Not reported
SO2 Annual Emission Restrictions:	Not reported
NO2 Annual Emission Restrictions:	Not reported
CO Annual Emission Restrictions:	Not reported
PB Annual Emission Restrictions:	Not reported
NH3 Annual Emission Restrictions:	Not reported
VOC Annual Emission Restrictions:	Not reported
AQID:	1192345
Pollutant:	VOLATILE ORGANIC COMPOUNDS (VOC)
Actual Emission:	0
Emission Year:	2013
DEP Number:	Not reported
Facility Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Region Code:	Not reported
FMF ID:	Not reported
ORIS Code:	Not reported
AQ Class:	Not reported
NAICS Code:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

NAICS Description:	Not reported
DEP Stack Number:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Liner:	Not reported
Stack Max Temp:	Not reported
Stack Max Velocity:	Not reported
Stack Flow:	Not reported
DEP EU Number:	Not reported
Segment Number:	Not reported
Is Exempt From 702:	Not reported
Equipment Type Name:	Not reported
Manufacturer:	Not reported
Model Number:	Not reported
Installed Date:	Not reported
EU Decom Date:	Not reported
Max Input Rating:	Not reported
Approval Number:	Not reported
Approval Date:	Not reported
Q1 Operation Percent:	Not reported
Q2 Operation Percent:	Not reported
Q3 Operation Percent:	Not reported
Q4 Operation Percent:	Not reported
Hours Daily:	Not reported
Days Weekly:	Not reported
Weeks Yearly:	Not reported
Type of Material:	Not reported
Case Number:	Not reported
Throughput Data:	Not reported
Sulfur Content Percent:	Not reported
Ash Content Percent:	Not reported
Operating Restrictions:	Not reported
SCC Code:	Not reported
SCC Description:	Not reported
Comments:	Not reported
P10 Act Amount:	Not reported
P10 Act UOM:	Not reported
P10 POT Amount:	Not reported
P10 POT UOM:	Not reported
P10 Per Amount:	Not reported
P10 Per UOM:	Not reported
SO2 Act Amount:	Not reported
SO2 Act UOM:	Not reported
SO2 POT Amount:	Not reported
SO2 POT UOM:	Not reported
SO2 Per Amount:	Not reported
SO2 Per UOM:	Not reported
NO2 Act Amount:	Not reported
NO2 Act UOM:	Not reported
NO2 POT Amount:	Not reported
NO2 POT UOM:	Not reported
NO2 Per Amount:	Not reported
NO2 Per UOM:	Not reported
CO Act Amount:	Not reported
CO Act UOM:	Not reported
CO POT Amount:	Not reported
CO POT UOM:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

CO Per Amount:	Not reported
CO Per UOM:	Not reported
VOC Act Amount:	Not reported
VOC Act UOM:	Not reported
VOC POT Amount:	Not reported
VOC POT UOM:	Not reported
VOC Per Amount:	Not reported
VOC Per UOM:	Not reported
PB Act Amount:	Not reported
PB Act UOM:	Not reported
PB POT Amount:	Not reported
PB POT UOM:	Not reported
PB Per Amount:	Not reported
PB Per UOM:	Not reported
P25 Act Amount:	Not reported
P25 Act UOM:	Not reported
P25 POT Amount:	Not reported
P25 POT UOM:	Not reported
P25 Per Amount:	Not reported
P25 Per UOM:	Not reported
NH3 Act Amount:	Not reported
NH3 Act UOM:	Not reported
NH3 POT Amount:	Not reported
NH3 POT UOM:	Not reported
NH3 Per Amount:	Not reported
NH3 Per UOM:	Not reported
Object ID:	Not reported
NAICS Code Count:	Not reported
Primary NAICS:	Not reported
Release Point:	Not reported
Stack Combined Units:	Not reported
Stack Decom Date:	Not reported
DEP Segment Number:	Not reported
Category Type:	Not reported
Emergency Gen:	Not reported
EU Combined Units:	Not reported
Chemical Name:	Not reported
Max Hourly Fuel Rating:	Not reported
Max UOM:	Not reported
Segment Decom Date:	Not reported
Actual Material Used:	Not reported
Actual Material Used UOM:	Not reported
P10 Annual Emission Restrictions:	Not reported
P25 Annual Emission Restrictions:	Not reported
SO2 Annual Emission Restrictions:	Not reported
NO2 Annual Emission Restrictions:	Not reported
CO Annual Emission Restrictions:	Not reported
PB Annual Emission Restrictions:	Not reported
NH3 Annual Emission Restrictions:	Not reported
VOC Annual Emission Restrictions:	Not reported

**ASBESTOS:**

Name:	SOUTH SORE TECHNICAL HIGH SCHOOL
Address:	476 WEBSTER STREET
City,State,Zip:	HANOVER, MA
Notification:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 09/22/2015  
End Date: 10/02/2015  
Date Entered: Not reported  
Entry Date: 09/12/2015  
Quantity Material Removed SF: 250.00  
Quantity Material Removed LF: Not reported  
Project Description: BOILER  
AR Tracking ID: 222021  
Super Lic Number: AS000630  
Monitor Lic Number: AM060297  
Lab Lic Number: AA000131  
Year: 2015  
Sticker Number: 100228668  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 4012327230  
Sub Town: Not reported  
Worksite: BOILER ROOM  
Occupied: -1  
Contractor: AC000745  
Contract Type: WRITTEN  
Hours: 7-7  
Project Type: Renv  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: FULL CONTAINMENT  
Disposal Methods: ALL ACM HANDLED WET, DOUBLE BAGGED, LABELED, DISPOSED IN EPA LANDFILL  
Facility Usage: SCHOOL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: SHOUTH SHORE TECHNICAL HIGH SCHOOL  
Owner Address: 476 WEBSTER STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: ADAM PETRONIO  
On Site Manager Phone: 4012327230  
Ins Comp: ARROW MUTUAL LIABILITY INS  
Policy Number: 1766A  
EXP Date: 1/1/2016  
Facility Size: 27000  
Transporter Name: CLEAN AIR ENVIRONMENTAL, INC  
Transporter Address: 193 WEBSTER STREET  
Transporter City: BOSTON  
Transporter State: MA  
Final Site: Not reported  
Certified Name: KEVIN GOHEEN  
Cert Sign Date: 09/12/2015  
Certified Company: CLEAN AIR ENVIRONMENTAL, INC  
Certified Phone: 6179702572  
Entered\_by: KEVINGO  
  
Name: SOUTH SHORE VOC TECH SCHOOL  
Address: 476 WEBSTER STREET

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 01/26/2004  
End Date: 01/27/2004  
Date Entered: Not reported  
Entry Date: 01/12/2004  
Quantity Material Removed SF: Not reported  
Quantity Material Removed LF: 15.00  
Project Description: Other:  
AR Tracking ID: 35330  
Super Lic Number: AS052895  
Monitor Lic Number: AA000132  
Lab Lic Number: AA000132  
Year: 2004  
Sticker Number: 100002357  
Form Type: ANF-001  
Fee Status: Exempt  
Facility Phone: 7818788822  
Sub Town: Not reported  
Worksite: SOUTH SHORE VOC TECH SCH  
Occupied: -1  
Contractor: AC000287  
Contract Type: Off  
Hours: Week days: 7-3PM Week end: N/A  
Project Type: Rpr  
Abatement Process: Glv  
Location: Indoors  
Decon Process: GLOVE BAG METHODS  
Disposal Methods: DOUBLE ASBESTOS BAGS, WET, GENERATOR ON OUTER BAG  
Facility Usage: SCHOOL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 5  
Owner Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
Owner Address: 476 WEBESTER STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: GENE KELLY  
On Site Manager Phone: 781-878-8822  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: 100000  
Transporter Name: HAZARDOUS ABATEMENT SERVICES INC  
Transporter Address: PO BOX 512  
Transporter City: HULL  
Transporter State: MA  
Final Site: 7  
Certified Name: JIM WALTERS  
Cert Sign Date: 01/12/2004  
Certified Company: H.A.S. INC.  
Certified Phone: 7819254882  
Entered\_by: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Name: SOUTH SHORE VOC TECH SCHOOL  
Address: 476 WEBSTER STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 02/19/2003  
End Date: 02/20/2003  
Date Entered: Not reported  
Entry Date: 02/05/2003  
Quantity Material Removed SF: Not reported  
Quantity Material Removed LF: 10.00  
Project Description: exhaust manifold  
AR Tracking ID: 22263  
Super Lic Number: AS052895  
Monitor Lic Number: AA000132  
Lab Lic Number: AA000132  
Year: 2003  
Sticker Number: 765675  
Form Type: ANF-001  
Fee Status: E  
Facility Phone: (781) 878-8822  
Sub Town: Not reported  
Worksite: generator room  
Occupied: -1  
Contractor: AC000287  
Contract Type: Not reported  
Hours: M-F 7-4  
Project Type: Renovation  
Abatement Process: Glove Bag  
Location: Indoors  
Decon Process: glovebag,washbucket  
Disposal Methods: Wet 2 Ply Poly Bag  
Facility Usage: school  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: Not reported  
Owner Name: so shore reg school district  
Owner Address: 476 webster street  
Owner City: hanover  
Owner State: MA  
On Site Manager Name: Not reported  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: 100000 sf 1 fl  
Transporter Name: JOB ROLLOFF INC  
Transporter Address: PO BOX 6037  
Transporter City: EVERETT  
Transporter State: MA  
Final Site: 17  
Certified Name: jim walters  
Cert Sign Date: 02/05/2003  
Certified Company: Not reported  
Certified Phone: (781) 925-4882

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Entered\_by: Not reported

Name: SOUTH SHORE VOCATIONAL TECHNICAL  
Address: 476 WEBSTER ST  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 10/01/2007  
End Date: 12/31/2007  
Date Entered: Not reported  
Entry Date: 09/14/2007  
Quantity Material Removed SF: 6800.00  
Quantity Material Removed LF: .00  
Project Description: Trns  
AR Tracking ID: 88570  
Super Lic Number: AS032786  
Monitor Lic Number: AM060770  
Lab Lic Number: AA000013  
Year: 2007  
Sticker Number: 100061352  
Form Type: ANF-001  
Fee Status: Exempt  
Facility Phone: 7818788822  
Sub Town: Not reported  
Worksite: WINDOWS  
Occupied: -1  
Contractor: AC000657  
Contract Type: WRITTEN  
Hours: Week days: 8AM-4PM Week end:  
Project Type: Dem  
Abatement Process: PREP FROM INSIDE, LAY POLY ON FLOOR  
Location: Not reported  
Decon Process: HEPA VACUUM, WATER HOSE  
Disposal Methods: ALL ASBESTOS CONTAINING MATERIALS SHALL BE WETTED, DOUBLED BAGGED IN 6 MIL  
Facility Usage: SCHOOL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 5  
Owner Name: SOUTH SHORE VOC SCHOOL DISTRICT  
Owner Address: 476 WEBSTER ST  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: JOHN KOSKO  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: Not reported  
Transporter Name: Not reported  
Transporter Address: Not reported  
Transporter City: Not reported  
Transporter State: Not reported  
Final Site: 7  
Certified Name: DENNIS DOUNG



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Cert Sign Date: 09/14/2007  
Certified Company: Not reported  
Certified Phone: 9784522300  
Entered\_by: Not reported

Name: SOUTH SHORE VO-TECH HIGH SCHOOL  
Address: 476 WEBSTER STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 08/12/2016  
End Date: 08/12/2016  
Date Entered: Not reported  
Entry Date: 07/27/2016  
Quantity Material Removed SF: 13.00  
Quantity Material Removed LF: Not reported  
Project Description: PIPEINSUL  
AR Tracking ID: 244629  
Super Lic Number: AS060773  
Monitor Lic Number: Not reported  
Lab Lic Number: Not reported  
Year: 2016  
Sticker Number: 100248031  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 0000000000  
Sub Town: Not reported  
Worksite: BOYS LOCKER ROOM  
Occupied: -1  
Contractor: AC000196  
Contract Type: WRITTEN  
Hours: 8-4  
Project Type: Renv  
Abatement Process: Glv  
Location: INDOORS  
Decon Process: AS REQUIRED  
Disposal Methods: AS REQUIRED  
Facility Usage: SCHOOL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: SAME  
Owner Address: SAME  
Owner City: SAME  
Owner State: MA  
On Site Manager Name: X  
On Site Manager Phone: 0000000000  
Ins Comp: X  
Policy Number: X  
EXP Date: 1/1/2017  
Facility Size: 80000  
Transporter Name: NEW ENGLAND SURFACE MAINTENANCE, LLP  
Transporter Address: 850 WASHINGTON STREET  
Transporter City: WEYMOUTH  
Transporter State: MA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Final Site: Not reported  
Certified Name: JIM DOYLE  
Cert Sign Date: 07/27/2016  
Certified Company: NESM, LLP  
Certified Phone: 7813372117  
Entered\_by: JIMDOYLE

Name: SOUTH SHORE VOC TECH SCHOOL  
Address: 476 WEBSTER STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 02/17/2004  
End Date: 02/18/2004  
Date Entered: Not reported  
Entry Date: 02/02/2004  
Quantity Material Removed SF: .00  
Quantity Material Removed LF: 50.00  
Project Description: Blr,Ctr,Spr,Clth,Thrm,Insl,Trwl,Trns,0  
AR Tracking ID: 35967  
Super Lic Number: AS052895  
Monitor Lic Number: AA000132  
Lab Lic Number: AA000132  
Year: 2004  
Sticker Number: 100002674  
Form Type: ANF-001  
Fee Status: Exempt  
Facility Phone: 7818788822  
Sub Town: Not reported  
Worksite: 1ST FLOOR  
Occupied: -1  
Contractor: AC000287  
Contract Type: Off  
Hours: Week days: 7-3PM Week end: N/A  
Project Type: Rpr  
Abatement Process: Giv  
Location: Indoors  
Decon Process: WASH BUCKET, GLOVE BAG METHODS  
Disposal Methods: DOUBLE ASBESTOS BAG, WET, GENERATOR LABEL ON OUTER BAG  
Facility Usage: SCHOOL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 5  
Owner Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
Owner Address: 476 WEBSTER STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: GENE KELLY  
On Site Manager Phone: 781-878-8822  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: 100000  
Transporter Name: HAZARDOUS ABATEMENT SERVICES INC  
Transporter Address: PO BOX 512

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Transporter City: HULL  
Transporter State: MA  
Final Site: 7  
Certified Name: JIM WALTERS  
Cert Sign Date: 02/02/2004  
Certified Company: H.A.S. INC.  
Certified Phone: 7819254882  
Entered\_by: Not reported

Name: SOUTH SHORE REGIONAL VOCATIONAL HIGH SCHOOL  
Address: 476 WEBSTER STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 06/28/2011  
End Date: 07/28/2011  
Date Entered: Not reported  
Entry Date: 03/21/2011  
Quantity Material Removed SF: .00  
Quantity Material Removed LF: 1806.00  
Project Description: Spr,Trns  
AR Tracking ID: 139190  
Super Lic Number: AS000804  
Monitor Lic Number: AM051114  
Lab Lic Number: AA000194  
Year: 2011  
Sticker Number: 100122732  
Form Type: ANF-001  
Fee Status: Exempt  
Facility Phone: Not reported  
Sub Town: Not reported  
Worksite: VARIOUS LOCATIONS  
Occupied: -1  
Contractor: AC000700  
Contract Type: WRITTEN  
Hours: Week days: 8:4 PM Week end: N/A  
Project Type: Renv  
Abatement Process: Fcontain  
Location: Not reported  
Decon Process: THREE CHAMBER DECONTAMINATION UNIT / FULL CONTAINMENT.  
Disposal Methods: WETTED MATERIALS WILL BE CONTAINED IN 6MIL ACM BAGS  
Facility Usage: SCHOOL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 5  
Owner Name: SOUTH SHORE SCHOOL DISTRIC  
Owner Address: Not reported  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: Not reported  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE VOCATIONAL (Continued)**

**S101046144**

Transporter Name: Not reported  
Transporter Address: Not reported  
Transporter City: Not reported  
Transporter State: Not reported  
Final Site: 39  
Certified Name: RAUL POLANCO  
Cert Sign Date: 03/21/2011  
Certified Company: Not reported  
Certified Phone: 9783275070  
Entered\_by: Not reported

**HW GEN:**

Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
Address: 476 WEBSTER ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAR000531855  
RCRA Generator Status: VSQG  
State Generator Status: VQG-MA

Name: SOUTH SHORE VOCATIONAL  
Address: 476 WEBSTER ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MV7818782277  
RCRA Generator Status: VSQG  
State Generator Status: SQG-MA

**A5  
Target  
Property**

**SOUTH SHORE REGIONAL SCHOOL DISTRICT  
476 WEBSTER STREET  
HANOVER, MA 2339**

**FTTS 1009523557  
HIST FTTS N/A**

**Site 5 of 10 in cluster A**

**Actual:  
112 ft.**

**FTTS INSP:**  
Inspection Number: 19900216MA007 1  
Region: 01  
Inspection Date: 02/16/90  
Inspector: PIKE  
Violation occurred: No  
Investigation Type: AHERA, Enforcement, SEE Conducted  
Investigation Reason: For Cause, Disposal  
Legislation Code: TSCA  
Facility Function: User

**HIST FTTS INSP:**  
Inspection Number: 19900216MA007 1  
Region: 01  
Inspection Date: Not reported  
Inspector: PIKE  
Violation occurred: No  
Investigation Type: AHERA, Enforcement, SEE Conducted  
Investigation Reason: For Cause, Disposal  
Legislation Code: TSCA  
Facility Function: User

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A6**  
**Target**  
**Property**

**SOUTH SHORE REGIONAL VOC HIGH SCHOOL**  
**476 WEBSTER STREET**  
**HANOVER, MA 02339**

**US AIRS**    **1004518420**  
**N/A**

**Site 6 of 10 in cluster A**

**Actual:**  
**112 ft.**

US AIRS MINOR:

Envid: 1004518420  
Region Code: 01  
Programmatic ID: AIR MA0000002511902345  
Facility Registry ID: 110010401127  
D and B Number: Not reported  
Primary SIC Code: 8249  
NAICS Code: 611519  
Default Air Classification Code: MIN  
Facility Type of Ownership Code: CTG  
Air CMS Category Code: Not reported  
HPV Status: Not reported

US AIRS MINOR:

Region Code: 01  
Programmatic ID: AIR MA0000002511902345  
Facility Registry ID: 110010401127  
Air Operating Status Code: OPR  
Default Air Classification Code: MIN  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 1986-11-07 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 01  
Programmatic ID: AIR MA0000002511902345  
Facility Registry ID: 110010401127  
Air Operating Status Code: OPR  
Default Air Classification Code: MIN  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 1988-01-25 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 01  
Programmatic ID: AIR MA0000002511902345  
Facility Registry ID: 110010401127  
Air Operating Status Code: OPR  
Default Air Classification Code: MIN  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 1991-02-04 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 01  
Programmatic ID: AIR MA0000002511902345  
Facility Registry ID: 110010401127  
Air Operating Status Code: OPR

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SOUTH SHORE REGIONAL VOC HIGH SCHOOL (Continued)**

**1004518420**

Default Air Classification Code: MIN  
 Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
 Activity Date: 2000-04-27 00:00:00  
 Activity Status Date: Not reported  
 Activity Group: Compliance Monitoring  
 Activity Type: Inspection/Evaluation  
 Activity Status: Not reported

Region Code: 01  
 Programmatic ID: AIR MA0000002511902345  
 Facility Registry ID: 110010401127  
 Air Operating Status Code: OPR  
 Default Air Classification Code: MIN  
 Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
 Activity Date: 2004-01-05 00:00:00  
 Activity Status Date: Not reported  
 Activity Group: Compliance Monitoring  
 Activity Type: Inspection/Evaluation  
 Activity Status: Not reported

**A7  
 Target  
 Property**

**SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL  
 476 WEBSTER STREET  
 HANOVER, MA**

**ASBESTOS S122933422  
 N/A**

**Site 7 of 10 in cluster A**

**Actual:  
 112 ft.**

**ASBESTOS:**  
 Name: SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL  
 Address: 476 WEBSTER STREET  
 City,State,Zip: HANOVER, MA  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 07/06/2017  
 End Date: 07/14/2017  
 Date Entered: Not reported  
 Entry Date: 06/21/2017  
 Quantity Material Removed SF: 3000.00  
 Quantity Material Removed LF: Not reported  
 Project Description: OTHER WOOD FLOORING/MASTIC  
 AR Tracking ID: 270261  
 Super Lic Number: AS032368  
 Monitor Lic Number: AA000232  
 Lab Lic Number: AA000152  
 Year: 2017  
 Sticker Number: 100267408  
 Form Type: ANF-001  
 Fee Status: EXEMPT  
 Facility Phone: 7818788822  
 Sub Town: Not reported  
 Worksite: ROOM 112  
 Occupied: 0  
 Contractor: AC000684  
 Contract Type: WRITTEN  
 Hours: 07:00AM TO 05:30P.M.  
 Project Type: Renv  
 Abatement Process: Fcontain



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL (Continued)**

**S122933422**

Location: INDOORS  
 Decon Process: 3 STAGE  
 Disposal Methods: ASBESTOS WILL BE CONTAINERIZED IN A PROPER CONTAINER AND DISPOSED OF AT AN APPROVED LANDFILL.  
 Facility Usage: SCHOOL  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
 Owner Address: 476 WEBSTER STREET  
 Owner City: HANOVER  
 Owner State: MA  
 On Site Manager Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
 On Site Manager Phone: 7818788822  
 Ins Comp: ATLANTIC CHARTER  
 Policy Number: WCV01198800  
 EXP Date: 12/12/2017  
 Facility Size: 90000  
 Transporter Name: J.O.B. ROLL OFF  
 Transporter Address: P.O. BOX 609  
 Transporter City: HAMPSTEAD  
 Transporter State: NH  
 Final Site: Not reported  
 Certified Name: BAHRAM SAFARPOORMONFARED  
 Cert Sign Date: 06/21/2017  
 Certified Company: FIBER CONTROL INC.  
 Certified Phone: 6179223203  
 Entered\_by: FCI15

**A8  
 Target  
 Property**

**SOUTH SHORE REGIONAL SCHOOL DISTRICT  
 476 WEBSTER STREET  
 HANOVER, MA 2339**

**FTTS 1007294204  
 HIST FTTS N/A**

**Site 8 of 10 in cluster A**

**Actual:  
 112 ft.**

**FTTS INSP:**  
 Inspection Number: 19960415N4003 1  
 Region: 04  
 Inspection Date: 04/15/96  
 Inspector: BIDLEMAN, WILLIAM  
 Violation occurred: Yes  
 Investigation Type: AHERA, Enforcement, SEE Conducted  
 Investigation Reason: Neutral Scheme, Region  
 Legislation Code: TSCA  
 Facility Function: User

**HIST FTTS INSP:**  
 Inspection Number: 19960415N4003 1  
 Region: 04  
 Inspection Date: Not reported  
 Inspector: BIDLEMAN, WILLIAM  
 Violation occurred: Yes  
 Investigation Type: AHERA, Enforcement, SEE Conducted  
 Investigation Reason: Neutral Scheme, Region  
 Legislation Code: TSCA

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SOUTH SHORE REGIONAL SCHOOL DISTRICT (Continued)**

**1007294204**

Facility Function: User

**A9  
 Target  
 Property**

**SOUTH SHORE REGIONAL SCHOOL DISTRICT  
 476 WEBSTER ST  
 HANOVER, MA 02339**

**RCRA-VSQG 1024882768  
 MAR000531855**

**Site 9 of 10 in cluster A**

**Actual:  
 112 ft.**

RCRA Listings:	
Date Form Received by Agency:	20180919
Handler Name:	South Shore Regional School District
Handler Address:	WEBSTER ST
Handler City,State,Zip:	HANOVER, MA 02339
EPA ID:	MAR000531855
Contact Name:	ROBERT J MOORHEAD
Contact Address:	WEBSTER ST
Contact City,State,Zip:	HANOVERHANOVER, MA 02339
Contact Telephone:	781-499-7433
Contact Fax:	781-982-0281
Contact Email:	BMOORHEAD@SSVOTECH.ORG
Contact Title:	FACILITY DIRECTOR
EPA Region:	01
Land Type:	District
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities, State-specific Activities
State District Owner:	Ma
State District:	SE
Mailing Address:	WEBSTER ST
Mailing City,State,Zip:	HANOVER, MA 02339
Owner Name:	South Shore Regional School District
Owner Type:	District
Operator Name:	Robert J. Moorhead
Operator Type:	District
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	--Y
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE REGIONAL SCHOOL DISTRICT (Continued)**

**1024882768**

Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180927
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	D035
Waste Description:	Methyl Ethyl Ketone

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SOUTH SHORE REGIONAL SCHOOL DISTRICT
Legal Status:	District
Date Became Current:	20180919
Date Ended Current:	Not reported
Owner/Operator Address:	476 WEBSTER ST
Owner/Operator City,State,Zip:	HANOVERHANOVER, MA 02339
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	ROBERT J. MOORHEAD
Legal Status:	District
Date Became Current:	20180919
Date Ended Current:	Not reported
Owner/Operator Address:	476 WEBSTER ST
Owner/Operator City,State,Zip:	HANOVERHANOVER, MA 02339
Owner/Operator Telephone:	781-499-7433
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	781-982-0281
Owner/Operator Email:	BMOORHEAD@SSVOTECH.ORG

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SHORE REGIONAL SCHOOL DISTRICT (Continued)**

**1024882768**

Historic Generators:

Receive Date: 20180919  
Handler Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
State District Owner: Ma  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code: 611110  
NAICS Description: ELEMENTARY AND SECONDARY SCHOOLS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**A10  
Target  
Property**

**SOUTH SHORE REGIONAL SCHOOL DISTRICT  
476 WEBSTER STREET  
HANOVER, MA**

**ASBESTOS S122954744  
N/A**

**Site 10 of 10 in cluster A**

**Actual:  
112 ft.**

**ASBESTOS:**

Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
Address: 476 WEBSTER STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/09/2018  
End Date: 07/09/2018  
Date Entered: Not reported  
Entry Date: 06/01/2018  
Quantity Material Removed SF: .00  
Quantity Material Removed LF: 30.00  
Project Description: PIPEINSUL  
AR Tracking ID: 295204  
Super Lic Number: AS001592  
Monitor Lic Number: Not reported  
Lab Lic Number: AA000144  
Year: 2018  
Sticker Number: 100287770  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7814997433  
Sub Town: Not reported  
Worksite: ROOM 123 AND I.T. STORAGE

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SOUTH SHORE REGIONAL SCHOOL DISTRICT (Continued)**

**S122954744**

Occupied: -1  
 Contractor: AC000966  
 Contract Type: WRITTEN  
 Hours: 7AM-3:30PM  
 Project Type: Repr  
 Abatement Process: Glv,Fcontain  
 Location: INDOORS  
 Decon Process: 3 CHAMBER WITH FULLY FUNCTIONING SHOWER  
 Disposal Methods: DOUBLE BAGGED AND PLACED INTO A LINED DUMPSTER  
 Facility Usage: SCHOOL  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: SOUTH SHORE REGIONAL SCHOOL DISTRICT  
 Owner Address: 476 WEBSTER STREET  
 Owner City: HANOVER  
 Owner State: MA  
 On Site Manager Name: ROBERT MOOREHEAD  
 On Site Manager Phone: 7814997433  
 Ins Comp: GREAT DIVIDE INSURANCE  
 Policy Number: WCA1528409018  
 EXP Date: 1/1/2019  
 Facility Size: 75000  
 Transporter Name: RED TECHNOLOGIES  
 Transporter Address: 10 NORTHWOOD DRIVE  
 Transporter City: BLOOMFIELD  
 Transporter State: CT  
 Final Site: Not reported  
 Certified Name: REGINA GUZMAN  
 Cert Sign Date: 06/01/2018  
 Certified Company: POWER GROUP SPECIALISTS, INC  
 Certified Phone: 9786820100  
 Entered\_by: FERGUSON120

11  
 WSW  
 < 1/8  
 0.055 mi.  
 290 ft.

**BAPTIST CHURCH**  
**580 WEBSTER ST**  
**HANOVER, MA 02339**

**LUST** **S102088080**  
**RELEASE** **N/A**  
**ASBESTOS**

**Relative:**  
**Lower**  
**Actual:**  
**108 ft.**

**LUST:**  
 Facility:  
 Name: BAPTIST CHURCH  
 Address: 580 WEBSTER ST  
 City,State,Zip: HANOVER, MA 02339  
**Current Status: Response Action Outcome**  
 Release Tracking Number/Current Status: 4-0010606 / RAO  
 Status Date: 07/14/1995  
 Source Type: UST  
 Release Town: HANOVER  
 Notification Date: 07/15/1994  
 Category: 72 HR  
 Associated ID: Not reported  
 Phase: Not reported  
 Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAPTIST CHURCH (Continued)**

**S102088080**

Oil Or Haz Material: Oil  
Location Type: CHURCH  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: #2 FUEL OIL  
Quantity: 180 parts per million  
Chemical: #2 FUEL OIL  
Quantity: 170 parts per million

Actions:

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 10/13/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 11/10/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 5/11/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 7/14/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 7/14/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 7/14/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 7/15/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAPTIST CHURCH (Continued)**

**S102088080**

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 7/15/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 7/15/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 7/20/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/12/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 9/12/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Name: BAPTIST CHURCH  
Address: 580 WEBSTER ST  
City,State,Zip: HANOVER, MA 02339  
Release Tracking Number/Current Status: 4-0010606 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 07/15/1994  
Category: 72 HR  
Status Date: 07/14/1995  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:  
Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 10/13/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAPTIST CHURCH (Continued)**

**S102088080**

Action Status: Status or Interim Report Received  
Action Date: 11/10/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 5/11/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 7/14/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 7/14/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 7/14/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 7/15/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 7/15/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 7/15/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 7/20/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/12/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAPTIST CHURCH (Continued)**

**S102088080**

reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 9/12/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: #2 FUEL OIL  
Quantity: 180 parts per million  
Chemical: #2 FUEL OIL  
Quantity: 170 parts per million  
Location Type: CHURCH  
Source: UST

ASBESTOS:  
Name: FIRST BAPTIST CHURCH  
Address: 580 WEBSTER ST  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 09/30/2021  
End Date: 10/06/2021  
Date Entered: Not reported  
Entry Date: 09/15/2021  
Quantity Material Removed SF: 12  
Quantity Material Removed LF: 200  
Project Description: BOILER PIPEINSUL  
AR Tracking ID: 372921  
Super Lic Number: AS060834  
Monitor Lic Number: AM900491  
Lab Lic Number: AA000208  
Year: 2021  
Sticker Number: 100352948  
Form Type: ANF-001  
Fee Status: Not reported  
Facility Phone: 7818780707  
Sub Town: Not reported  
Worksite: BASEMENT  
Occupied: -1  
Contractor: AC000967  
Contract Type: WRITTEN  
Hours: 7AM-5PM  
Project Type: Renv  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: 3 STAGE DE CON  
Disposal Methods: WET/DOUBLE BAGGED/LABELLED  
Facility Usage: COMMERCIAL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: -1  
Owner Name: FIRST BAPTIST CHURCH

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BAPTIST CHURCH (Continued)**

**S102088080**

Owner Address: 580 WEBSTER ST  
 Owner City: HANOVER  
 Owner State: MA  
 On Site Manager Name: PASTOR GREG MCKELVEY  
 On Site Manager Phone: 5082211339  
 Ins Comp: AIM MUTUAL  
 Policy Number: 6022761  
 EXP Date: 12/6/2021  
 Facility Size: 15000  
 Transporter Name: ERIE ENVIRONMENTAL  
 Transporter Address: 377 WILLARD ST #213  
 Transporter City: QUINCY  
 Transporter State: MA  
 Final Site: Not reported  
 Certified Name: JAMES ROSMAN  
 Cert Sign Date: 09/15/2021  
 Certified Company: ERIE ENVIRONMENTAL  
 Certified Phone: 3107403900  
 Entered\_by: ERIEENVIRO

**B12**  
**SSW**  
**< 1/8**  
**0.069 mi.**  
**363 ft.**

**DANIELS RESIDENCE**  
**70 DILLINGHAM WAY**  
**HANOVER, MA 02339**

**RCRA NonGen / NLR**

**1025503389**  
**MAR000558940**

**Site 1 of 2 in cluster B**

**Relative:**  
**Lower**  
**Actual:**  
**105 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20200123  
 Handler Name: Daniels Residence  
 Handler Address: DILLINGHAM WAY  
 Handler City,State,Zip: HANOVER, MA 02339  
 EPA ID: MAR000558940  
 Contact Name: COLLEEN DANIELS  
 Contact Address: RIVER ST  
 Contact City,State,Zip: NORWELL, MA 02061  
 Contact Telephone: 617-633-4778  
 Contact Fax: Not reported  
 Contact Email: Not reported  
 Contact Title: OWNER  
 EPA Region: 01  
 Land Type: Private  
 Federal Waste Generator Description: Not a generator, verified  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Not reported  
 State District Owner: Ma  
 State District: SE  
 Mailing Address: RIVER ST  
 Mailing City,State,Zip: NORWELL, MA 02061  
 Owner Name: Colleen Daniels  
 Owner Type: Private  
 Operator Name: Colleen Daniels  
 Operator Type: Private  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DANIELS RESIDENCE (Continued)**

**1025503389**

Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
202 GPRC Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200131
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: COLLEEN DANIELS	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	690 RIVER ST
Owner/Operator City,State,Zip:	NORWELL, MA 02061
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: COLLEEN DANIELS	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	690 RIVER ST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DANIELS RESIDENCE (Continued)**

**1025503389**

Owner/Operator City,State,Zip: NORWELL, MA 02061  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: COLLEEN DANIELS  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 690 RIVER ST  
Owner/Operator City,State,Zip: NORWELL, MA 02061  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: COLLEEN DANIELS  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 690 RIVER ST  
Owner/Operator City,State,Zip: NORWELL, MA 02061  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20200123  
Handler Name: DANIELS RESIDENCE  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Ma  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20190603  
Handler Name: DANIELS RESIDENCE - TEMPORARY ID  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Ma  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DANIELS RESIDENCE (Continued)**

**1025503389**

List of NAICS Codes and Descriptions:

NAICS Code: 213112  
 NAICS Description: SUPPORT ACTIVITIES FOR OIL AND GAS OPERATIONS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**B13**  
**SSW**  
**< 1/8**  
**0.069 mi.**  
**363 ft.**

**RESIDENTIAL UST RELEASE**  
**70 DILLINGHAM WAY**  
**HANOVER, MA**  
**Site 2 of 2 in cluster B**

**SHWS** **S123811462**  
**LUST** **N/A**  
**RELEASE**

**Relative:**  
**Lower**  
**Actual:**  
**105 ft.**

SHWS:  
 Name: RESIDENTIAL UST RELEASE  
 Address: 70 DILLINGHAM WAY  
 City,State,Zip: HANOVER, MA  
 Facility ID: 4-0027763  
 Source Type: TANK  
 Release Town: HANOVER  
 Notification Date: 05/03/2019  
 Category: 72 HR  
 Associated ID: Not reported  
 Current Status: PSNC  
 Status Date: 07/20/2020  
 Phase: Not reported  
 Response Action Outcome: PN  
 Oil Or Haz Material: Not reported

LUST:

Facility:

Name: RESIDENTIAL UST RELEASE  
 Address: 70 DILLINGHAM WAY  
 City,State,Zip: HANOVER, MA  
**Current Status: Permanent Solution with No Conditions**  
 Release Tracking Number/Current Status: 4-0027763 / PSNC  
 Status Date: 07/20/2020  
 Source Type: UST  
 Release Town: HANOVER  
 Notification Date: 05/03/2019  
 Category: 72 HR  
 Associated ID: Not reported  
 Phase: Not reported  
 Response Action Outcome: PN - PN  
 Oil Or Haz Material: Not reported

Location Type: RESIDENTIAL  
 Source: TANK  
 Source: UST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENTIAL UST RELEASE (Continued)**

**S123811462**

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: Not reported  
Quantity: Not reported

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: PSNREV  
Action Date: 10/5/2021  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 2/7/2020  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 3/18/2020  
Response Action Outcome: PN

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 3/31/2020  
Response Action Outcome: PN

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 5/22/2019  
Response Action Outcome: PN

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 5/3/2019  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: IRA Assessment Only  
Action Date: 5/3/2019  
Response Action Outcome: PN

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 7/12/2019  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 7/20/2020  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: PSNRCD  
Action Date: 7/20/2020

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENTIAL UST RELEASE (Continued)**

**S123811462**

Response Action Outcome: PN

Action Type: An activity type that is related to an Audit  
Action Status: NOA  
Action Date: 7/20/2021  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 7/21/2020  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 7/27/2020  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 7/27/2020  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 8/6/2019  
Response Action Outcome: PN

Action Type: RLFA  
Action Status: FLDRAN  
Action Date: 8/6/2021  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: Level III - Comprehensive Audit  
Action Date: 9/23/2021  
Response Action Outcome: PN

Action Type: An activity type that is related to an Audit  
Action Status: Notice of Non-compliance related to an Audit  
Action Date: 9/23/2021  
Response Action Outcome: PN

Release:  
Name: RESIDENTIAL UST RELEASE  
Address: 70 DILLINGHAM WAY  
City, State, Zip: HANOVER, MA  
Release Tracking Number/Current Status: 4-0027763 / PSNC  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 05/03/2019  
Category: 72 HR  
Status Date: 07/20/2020  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil / Haz Material Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENTIAL UST RELEASE (Continued)**

**S123811462**

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

- |                          |  |
|--------------------------|--|
| Action Type:             | Response Action Outcome - RAO  |
| Action Status:           | PSNREV   |
| Action Date:             | 10/5/2021  |
| Response Action Outcome: | PN   |
| Action Type:             | Immediate Response Action  |
| Action Status:           | Modified Revised or Updated Plan Received                            |
| Action Date:             | 2/7/2020   |
| Response Action Outcome: | PN   |
| Action Type:             | Immediate Response Action  |
| Action Status:           | Level I - Technical Screen Audit                                     |
| Action Date:             | 3/18/2020  |
| Response Action Outcome: | PN   |
| Action Type:             | BOL  |
| Action Status:           | Transmittal, Notice, or Notification Received                        |
| Action Date:             | 3/31/2020  |
| Response Action Outcome: | PN   |
| Action Type:             | A Notice sent to a Potentially Responsible Party (PRP)               |
| Action Status:           | A MassDEP piece of correspondence was issued (approvals, NORs, etc.) |
| Action Date:             | 5/22/2019  |
| Response Action Outcome: | PN   |
| Action Type:             | Release Disposition  |
| Action Status:           | Reportable Release under MGL 21E                                     |
| Action Date:             | 5/3/2019   |
| Response Action Outcome: | PN   |
| Action Type:             | Immediate Response Action  |
| Action Status:           | IRA Assessment Only  |
| Action Date:             | 5/3/2019   |
| Response Action Outcome: | PN   |
| Action Type:             | RNFE   |
| Action Status:           | Transmittal, Notice, or Notification Received                        |
| Action Date:             | 7/12/2019  |
| Response Action Outcome: | PN   |
| Action Type:             | Immediate Response Action  |
| Action Status:           | Completion Statement Received  |
| Action Date:             | 7/20/2020  |
| Response Action Outcome: | PN   |
| Action Type:             | Response Action Outcome - RAO  |
| Action Status:           | PSNRCD   |
| Action Date:             | 7/20/2020  |
| Response Action Outcome: | PN   |
| Action Type:             | An activity type that is related to an Audit                         |
| Action Status:           | NOA  |
| Action Date:             | 7/20/2021  |
| Response Action Outcome: | PN   |

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**RESIDENTIAL UST RELEASE (Continued)**

**S123811462**

Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	7/21/2020
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	7/27/2020
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	7/27/2020
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	8/6/2019
Response Action Outcome:	PN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/6/2021
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	Level III - Comprehensive Audit
Action Date:	9/23/2021
Response Action Outcome:	PN
Action Type:	An activity type that is related to an Audit
Action Status:	Notice of Non-compliance related to an Audit
Action Date:	9/23/2021
Response Action Outcome:	PN
Chemicals:	
Chemical:	Not reported
Quantity:	Not reported
Location Type:	RESIDENTIAL
Source:	TANK
Source:	UST

**C14**  
**SW**  
 1/8-1/4  
 0.151 mi.  
 795 ft.

**NO LOCATION AID**  
**26 DAVIS ST**  
**HANOVER, MA 02339**  
**Site 1 of 2 in cluster C**

**LAST** **S105309531**  
**LUST** **N/A**  
**RELEASE**

**Relative:**  
**Lower**  
**Actual:**  
**101 ft.**

LAST:  
 Name: NO LOCATION AID  
 Address: 26 DAVIS ST  
 City,State,Zip: HANOVER, MA 023390000  
 Release Tracking Number/Current Status: 4-0016817 / RAO  
 Source Type: AST  
 Release Town: HANOVER  
 Notification Date: 01/07/2002  
 Category: TWO HR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

Associated ID: 4-0016817  
Status Date: 03/03/2006  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil Or Haz Material: Oil

Chemicals:  
Chemical: #2 FUEL OIL  
Quantity: 50 gallons  
Location Type: WATERBODY  
Location Type: RESIDENTIAL  
Source: AST

Actions:  
Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 1/10/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 1/14/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 1/17/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 1/27/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/7/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 1/7/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 1/7/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

Action Status:	FLDISS
Action Date:	1/7/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FLDD1A
Action Date:	1/7/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	1/9/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	11/7/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Modified Revised or Updated Plan Received
Action Date:	11/7/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	12/30/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	2/17/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Plan Denied and/or Written Plan Requested
Action Date:	2/26/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	2/26/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	3/14/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

reduced to background.

Action Type: Phase 2  
Action Status: Scope of Work Received  
Action Date: 3/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: Tier 2 Classification  
Action Date: 3/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1  
Action Status: Completion Statement Received  
Action Date: 3/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 3/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal  
Action Date: 3/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 3/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 3/3/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3  
Action Status: Completion Statement Received  
Action Date: 3/3/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Completion Statement Received  
Action Date: 3/3/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

Action Status: Reportable Release under MGL 21E  
Action Date: 3/8/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 5/1/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 5/13/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 5/9/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 5/9/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Approval of Plan  
Action Date: 6/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 6/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 6/24/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 7/1/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 7/17/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 7/22/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 8/11/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**LUST:**

**Facility:**

Name: NO LOCATION AID  
Address: 26 DAVIS ST  
City,State,Zip: HANOVER, MA 023390000  
**Current Status: Response Action Outcome Not Required**  
Release Tracking Number/Current Status: 4-0017322 / RAONR  
Status Date: 03/14/2003  
Source Type: UST  
Release Town: HANOVER  
Notification Date: 09/12/2002  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: -  
Oil Or Haz Material: Oil  
  
Location Type: RESIDENTIAL  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

**Chemicals:**

Chemical: #2 FUEL OIL  
Quantity: Not reported

**Actions:**

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 1/10/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/14/2003  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Status: FOLOFF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

Action Date:	1/16/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	1/27/2004
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	11/7/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	11/7/2002
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	11/7/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	12/30/2005
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	3/14/2003
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	3/14/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	3/14/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	3/14/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	7/17/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	9/12/2002
Response Action Outcome:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/12/2002  
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 9/19/2002  
Response Action Outcome: Not reported

Release:

Name: NO LOCATION AID  
Address: 26 DAVIS ST  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0016817 / RAO  
Primary ID: 4-0016817  
Official City: HANOVER  
Notification: 01/07/2002  
Category: TWO HR  
Status Date: 03/03/2006  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 1/10/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 1/14/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 1/17/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 1/27/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/7/2002



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 1/7/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 1/7/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: FLDISS  
Action Date: 1/7/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FLDD1A  
Action Date: 1/7/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/9/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 11/7/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 11/7/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 12/30/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 2/17/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

Action Type: Immediate Response Action  
Action Status: Oral Plan Denied and/or Written Plan Requested  
Action Date: 2/26/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 2/26/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 3/14/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Scope of Work Received  
Action Date: 3/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: Tier 2 Classification  
Action Date: 3/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1  
Action Status: Completion Statement Received  
Action Date: 3/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 3/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal  
Action Date: 3/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 3/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 3/3/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3  
Action Status: Completion Statement Received  
Action Date: 3/3/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Completion Statement Received  
Action Date: 3/3/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 3/8/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 5/1/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 5/13/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 5/9/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 5/9/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Approval of Plan  
Action Date: 6/23/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 6/23/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 6/24/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 7/1/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 7/17/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 7/22/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 8/11/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: #2 FUEL OIL  
Quantity: 50 gallons  
Location Type: WATERBODY  
Location Type: RESIDENTIAL  
Source: AST

Name: NO LOCATION AID  
Address: 26 DAVIS ST  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0017322 / RAONR  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 09/12/2002  
Category: 72 HR  
Status Date: 03/14/2003  
Phase: Not reported  
Response Action Outcome: -  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:  
Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 1/10/2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	1/14/2003
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	1/16/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	1/27/2004
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	11/7/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	11/7/2002
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	11/7/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	12/30/2005
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	3/14/2003
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	3/14/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	3/14/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	3/14/2003
Response Action Outcome:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NO LOCATION AID (Continued)**

**S105309531**

Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	7/17/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	9/12/2002
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	9/12/2002
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	9/19/2002
Response Action Outcome:	Not reported
Chemicals:	
Chemical:	#2 FUEL OIL
Quantity:	Not reported
Location Type:	RESIDENTIAL
Source:	UST

**C15**  
**SSW**  
**1/8-1/4**  
**0.175 mi.**  
**922 ft.**

**GODFREY RESIDENCE**  
**31 DAVIS ST**  
**HANOVER, MA 02339**  
**Site 2 of 2 in cluster C**

**RCRA NonGen / NLR**    **1026496354**  
**MAR000586891**

**Relative:**  
**Lower**  
**Actual:**  
**100 ft.**

RCRA Listings:	
Date Form Received by Agency:	20201112
Handler Name:	Godfrey Residence
Handler Address:	DAVIS ST
Handler City,State,Zip:	HANOVER, MA 02339
EPA ID:	MAR000586891
Contact Name:	DUANE GODFREY
Contact Address:	DAVIS ST
Contact City,State,Zip:	HANOVER, MA 02339
Contact Telephone:	781-871-0449
Contact Fax:	Not reported
Contact Email:	DUANEGODFREY@COMCAST.NET
Contact Title:	Not reported
EPA Region:	01
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Ma
State District:	SE
Mailing Address:	DAVIS ST
Mailing City,State,Zip:	HANOVER, MA 02339
Owner Name:	Virginia Godfrey



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GODFREY RESIDENCE (Continued)**

**1026496354**

Owner Type:	Private
Operator Name:	Virginia Godfrey
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
202 GPRC Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20201124
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	VIRGINIA GODFREY
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	31 DAVIS ST
Owner/Operator City,State,Zip:	HANOVER, MA 02339
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GODFREY RESIDENCE (Continued)**

**1026496354**

Owner/Operator Indicator: Owner  
Owner/Operator Name: VIRGINIA GODFREY  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 31 DAVIS ST  
Owner/Operator City,State,Zip: HANOVER, MA 02339  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: VIRGINIA GODFREY  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 31 DAVIS ST  
Owner/Operator City,State,Zip: HANOVER, MA 02339  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: VIRGINIA GODFREY  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 31 DAVIS ST  
Owner/Operator City,State,Zip: HANOVER, MA 02339  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:  
Receive Date: 20201112  
Handler Name: GODFREY RESIDENCE  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Ma  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20201013  
Handler Name: GODFREY RESIDENCE  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Ma  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GODFREY RESIDENCE (Continued)**

**1026496354**

Spent Lead Acid Battery Importer: No  
 Spent Lead Acid Battery Exporter: No  
 Current Record: No  
 Non Storage Recycler Activity: No  
 Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code: 81411  
 NAICS Description: PRIVATE HOUSEHOLDS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**D16**  
**NNE**  
**1/8-1/4**  
**0.195 mi.**  
**1027 ft.**

**MASSACHUSETTS ELECTRIC COMPANY**  
**19 PHILLIPS LN**  
**HANOVER, MA 02339**  
**Site 1 of 2 in cluster D**

**RCRA-VSQG 1014390903**  
**MAC300013802**

**Relative:**  
**Higher**  
**Actual:**  
**148 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20100816  
 Handler Name: Massachusetts Electric Company  
 Handler Address: 19 PHILLIPS LN  
 Handler City,State,Zip: HANOVER, MA 02339  
 EPA ID: MAC300013802  
 Contact Name: JOSEPH CALLANAN  
 Contact Address: MASSACHUSETTS ELECTRIC COMPANY  
 Contact City,State,Zip: WALTHAM, MA 02451-1120  
 Contact Telephone: 781-907-3646  
 Contact Fax: Not reported  
 Contact Email: JOSEPH.CALLANAN@US.NGRID.COM  
 Contact Title: Not reported  
 EPA Region: 01  
 Land Type: Private  
 Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities, State-specific Activities  
 State District Owner: Ma  
 State District: S  
 Mailing Address: MASSACHUSETTS ELECTRIC COMPANY  
 Mailing City,State,Zip: WALTHAM, MA 02451-1120  
 Owner Name: Massachusetts Electric Company  
 Owner Type: Private  
 Operator Name: Massachusetts Electric Company  
 Operator Type: Private  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MASSACHUSETTS ELECTRIC COMPANY (Continued)**

**1014390903**

Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	--Y
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
202 GPRC Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20171020
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

**Hazardous Waste Summary:**

Waste Code:	D008
Waste Description:	Lead

**Handler - Owner Operator:**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MASSACHUSETTS ELECTRIC COMPANY
Legal Status:	Private
Date Became Current:	19610119
Date Ended Current:	Not reported
Owner/Operator Address:	MASSACHUSETTS ELECTRIC COMPANY
Owner/Operator City,State,Zip:	WALTHAM, MA 02451-1120
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MASSACHUSETTS ELECTRIC COMPANY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MASSACHUSETTS ELECTRIC COMPANY (Continued)**

**1014390903**

Legal Status: Private  
Date Became Current: 19610119  
Date Ended Current: Not reported  
Owner/Operator Address: MASSACHUSETTS ELECTRIC COMPANY  
Owner/Operator City,State,Zip: WALTHAM, MA 02451-1120  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20100816  
Handler Name: MASSACHUSETTS ELECTRIC COMPANY  
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
State District Owner: Ma  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 221122  
NAICS Description: ELECTRIC POWER DISTRIBUTION

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**D17**  
**NNE**  
**1/8-1/4**  
**0.195 mi.**  
**1027 ft.**

**NATIONAL GRID-PHILLIPS LANE 95**  
**19 PHILLIPS LANE**  
**HANOVER, MA 02339**

**HW GEN** **S112292653**  
**TIER 2** **N/A**  
**UIC**

**Site 2 of 2 in cluster D**

**Relative:**  
**Higher**  
**Actual:**  
**148 ft.**

HW GEN:  
Name: MASSACHUSETTS ELECTRIC COMPANY  
Address: 19 PHILLIPS LN  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAC300013802  
RCRA Generator Status: VSQG  
State Generator Status: VQG-MA

TIER 2:

Name: NATIONAL GRID-PHILLIPS LANE 95  
Address: 19 PHILLIPS LANE  
City,State,Zip: HANOVER, MA 02339-2339  
Report Year: 2018  
Facility Id: FATR2018000000038810

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL GRID-PHILLIPS LANE 95 (Continued)**

**S112292653**

Facility Dept:	Not reported
Latitude:	42.114334
Longitude:	-70.870750
Mailing Address:	19 Phillips Lane
Mailing City/State/Zip:	02339-339-
Mailing Country:	Not reported
Notes:	Not reported
All Chemicals Same As Last Yr:	Not reported
Date Signed:	2019-02-01
Dike Or Other Safeguard:	Not reported
Failed Validation:	Not reported
Date Modified:	02/01/2019
Fees Total:	Not reported
Num Of Employees:	0
Site Coord Abbreviated?:	false
Site Map:	Not reported
State Label Code:	Not reported
Submitted By:	Not reported
Validation Report:	Not reported
Fire District:	Not reported
Latlong Location Description:	Not reported
Latlong Method:	Not reported
Record Key:	FDTR2018000000008025
Id:	Not reported
Type:	EIN
Description:	Not reported
Last Modified:	Not reported
Record Key:	FDTR2018000000008026
Id:	Not reported
Type:	RMP
Description:	Not reported
Last Modified:	Not reported
Record Key:	FDTR2018000000008027
Id:	Not reported
Type:	State ID
Description:	Not reported
Last Modified:	Not reported
Record Key:	FDTR2018000000008028
Id:	Not reported
Type:	TRI
Description:	Not reported
Last Modified:	Not reported
Record Key:	FDTR2018000000008029
Id:	Not reported
Type:	DUN & BradStreet
Description:	Not reported
Last Modified:	Not reported
Record Key:	FDTR2018000000008030
Id:	Not reported
Type:	T2M Facility ID
Description:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL GRID-PHILLIPS LANE 95 (Continued)**

**S112292653**

Last Modified: Not reported  
  
Record Key: FDTR201800000008031  
Id: Not reported  
Type: NAICS  
Description: Not reported  
Last Modified: Not reported

Record Key: FDTR201800000008032  
Id: Not reported  
Type: SIC  
Description: Not reported  
Last Modified: Not reported

Contact:

Report Year: 2018  
Contact Record Id: CTTR2018358476P38810  
Title: Manager  
Contact Name: St Andre  
Contact Email: richard.standre@nationalgrid.com  
Contact Mail Address: Not reported  
Contact Mail City: Not reported  
Contact Mail State: Not reported  
Contact Mail Zip: Not reported  
Contact Mail Country: Not reported  
Contact1 Type: Emergency Contact  
Contact2 Type: Not reported  
Contact3 Type: Not reported  
Contact4 Type: Not reported  
Modification Date: 1900-01-01

Contact:

Report Year: 2018  
Contact Record Id: CTTR2018358471P38810  
Title: Not reported  
Contact Name: Not reported  
Contact Email: Not reported  
Contact Mail Address: Not reported  
Contact Mail City: Not reported  
Contact Mail State: Not reported  
Contact Mail Zip: Not reported  
Contact Mail Country: Not reported  
Contact1 Type: Billing  
Contact2 Type: Not reported  
Contact3 Type: Not reported  
Contact4 Type: Not reported  
Modification Date: 1900-01-01

Contact:

Report Year: 2018  
Contact Record Id: CTTR2018358474P38810  
Title: Environmental Manager  
Contact Name: Harley  
Contact Email: peter.harley@nationalgrid.com

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL GRID-PHILLIPS LANE 95 (Continued)**

**S112292653**

Contact Mail Address: Not reported  
Contact Mail City: Not reported  
Contact Mail State: Not reported  
Contact Mail Zip: Not reported  
Contact Mail Country: Not reported  
Contact1 Type: Tier II Information Contact  
Contact2 Type: Not reported  
Contact3 Type: Not reported  
Contact4 Type: Not reported  
Modification Date: 1900-01-01

Contact:

Report Year: 2018  
Contact Record Id: CTTR2018358475P38810  
Title: Lead Env Engineer  
Contact Name: Blanch  
Contact Email: deborah.blanch@nationalgrid.com  
Contact Mail Address: Not reported  
Contact Mail City: Not reported  
Contact Mail State: Not reported  
Contact Mail Zip: Not reported  
Contact Mail Country: Not reported  
Contact1 Type: Emergency Contact  
Contact2 Type: Not reported  
Contact3 Type: Not reported  
Contact4 Type: Not reported  
Modification Date: 1900-01-01

Contact:

Report Year: 2018  
Contact Record Id: CTTR2018358470P38810  
Title: Not reported  
Contact Name: Electric Company  
Contact Email: peter.harley@nationalgrid.com  
Contact Mail Address: 40 Sylvan Road  
Contact Mail City: Waltham  
Contact Mail State: MA  
Contact Mail Zip: 02451  
Contact Mail Country: US  
Contact1 Type: Owner / Operator  
Contact2 Type: Not reported  
Contact3 Type: Not reported  
Contact4 Type: Not reported  
Modification Date: 1900-01-01

Contact:

Report Year: 2018  
Contact Record Id: CTTR2018358469P38810  
Title: Not reported  
Contact Name: Not reported  
Contact Email: Not reported  
Contact Mail Address: Not reported  
Contact Mail City: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL GRID-PHILLIPS LANE 95 (Continued)**

**S112292653**

Contact Mail State: MA  
Contact Mail Zip: Not reported  
Contact Mail Country: US  
Contact1 Type: Parent Company  
Contact2 Type: Not reported  
Contact3 Type: Not reported  
Contact4 Type: Not reported  
Modification Date: 1900-01-01

Contact:

Report Year: 2018  
Contact Record Id: CTTR2018358473P38810  
Title: Not reported  
Contact Name: Not reported  
Contact Email: Not reported  
Contact Mail Address: 19 Phillips Lane  
Contact Mail City: Hanover  
Contact Mail State: MA  
Contact Mail Zip: 02339--  
Contact Mail Country: US  
Contact1 Type: Other  
Contact2 Type: Not reported  
Contact3 Type: Not reported  
Contact4 Type: Not reported  
Modification Date: 1900-01-01

Chemicals:

Acute: Not reported  
Ave Amount: Not reported  
Ave Amount Code: Not reported  
Chem Inv Record Id: CVTR2018000000143883  
Chem Same As Last Yr: true  
Chronic: Not reported  
CICAS: 64742536  
CI EHS Chemical: false  
CI Last Modified: 2018-02-05  
Days On Site: 365  
Entered Chemical Name: Mineral Oil Dielectric Fluid  
Fire: Not reported  
Gas: false  
Liquid: true  
Max Amount: 4.438  
Max Amount Code: 7  
Max Amt Container: 0  
Mixture: true  
Pressure: Not reported  
Pure: false  
Reactive: Not reported  
Solid: false  
State01 Checkbox: Not reported  
State01 Number: Not reported  
State01 Text: Not reported  
State02 Checkbox: Not reported  
State02 Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL GRID-PHILLIPS LANE 95 (Continued)**

**S112292653**

State02 Text: Not reported  
State03 Checkbox: Not reported  
State03 Number: Not reported  
State03 Text: Not reported  
State04 Checkbox: Not reported  
State04 Number: Not reported  
State04 Text: Not reported  
State05 Checkbox: Not reported  
State05 Text: Not reported  
State06 Checkbox: Not reported  
State06 Text: Not reported  
State07 Checkbox: Not reported  
State07 Text: Not reported  
State1 Contact Field: Not reported  
State Label Code: Not reported  
Trade Secret: false

Location:

Record Key: CLTR201800000S391542  
Chem Inv Record Id: CVTR2018000000143883  
Type Code: transformers  
Pressure Code: Ambient pressure  
Temperature Code: Ambient temperature  
Location: Transformers  
Amount: 44388  
Amount Unit: lbs  
Last Modified: 2018-02-05

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL GRID-PHILLIPS LANE 95 (Continued)**

**S112292653**

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

[Click this hyperlink](#) while viewing on your computer to access 12 additional MA TIER2: record(s) in the EDR Site Report.

**UIC:**

RTN Number:	Not reported
Name:	MASSACHUSETTS ELECTRIC COMPANY(MECO) OPERATIONS CENTER - HANOVER
Address:	19 PHILLIPS LANE
City,State,Zip:	HANOVER, MA 2339
Permit Date:	Not reported
Actor Name:	Not reported
Air Sparging:	Not reported
Injection Well:	Not reported
ReInjection Well:	Not reported
UIC APL Type:	Not reported
Latitude:	42.11419
Well Status:	1
Longitude:	70.86982
UIC ID:	MAS41A122301-5H1
EPA Code:	Not reported
Indicates Area:	Not reported
Number of Wells:	Not reported
Owner:	Not reported
Receive Date:	Not reported
Authorization to Install/Close Date:	Not reported
Confirmation of Install Receive:	Not reported
Post-Closure Receive:	Not reported
Final Approval Date:	Not reported
Permit Number:	Not reported
Permit Type:	Not reported
Permit Type Description:	Not reported
Program:	Not reported
Applicant Name:	Not reported
Decision Date:	Not reported
Operator Name:	Not reported
Well ID:	NOT AVAILABLE
Well Type Name:	stormwater drainage - no high potential pollutant

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL GRID-PHILLIPS LANE 95 (Continued)**

**S112292653**

Max Well Depth: 4  
Date Complete: Not reported  
Work Performed: Not reported  
Depth to Bedrock: Not reported  
Water Level: Not reported

**18**  
**NNE**  
**1/2-1**  
**0.576 mi.**  
**3039 ft.**

**FRM BOSTON WHALER FACILITY**  
**145 WEBSTER ST**  
**HANOVER, MA 02339**

**SHWS S102088084**  
**BROWNFIELDS N/A**  
**RELEASE**

**Relative:**  
**Higher**

**SHWS:**

**Actual:**  
**139 ft.**

Name: FRM BOSTON WHALER FACILITY  
Address: 145 WEBSTER ST  
City,State,Zip: HANOVER, MA 02339  
Facility ID: 4-0010616  
Source Type: Not reported  
Release Town: HANOVER  
Notification Date: 07/20/1994  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 06/27/1995  
Phase: Not reported  
Response Action Outcome: A2  
Oil Or Haz Material: Hazardous Material

**BROWNFIELDS 2:**

Name: FRM BOSTON WHALER FACILITY  
Address: 145 WEBSTER ST  
City,State,Zip: HANOVER, MA  
RTN: 4-0010616  
RAO Class: A2  
Other RTNs: Not reported  
Current Owner: Murphy William J Jr Trustee  
MCP Status: RAO  
AUL: No  
COCs: Benzenedicarboxylic acid, Dimethyl Ester  
Former Use: Industrial  
Current Use: Not reported  
Total Acreage: 15.42  
Fact Sheet: Not reported

**Release:**

Name: FRM BOSTON WHALER FACILITY  
Address: 145 WEBSTER ST  
City,State,Zip: HANOVER, MA 02339  
Release Tracking Number/Current Status: 4-0010616 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 07/20/1994  
Category: 120 DY  
Status Date: 06/27/1995  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FRM BOSTON WHALER FACILITY (Continued)**

**S102088084**

Oil / Haz Material Type: Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 11/10/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 11/15/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 3/31/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 6/22/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 6/27/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 6/7/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 7/20/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**Chemicals:**

Chemical: 1,2-BENZENEDICARBOXYLIC ACID,DIMETHYL ESTER  
Quantity: 32000 parts per billion  
Location Type: INDUSTRIAL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

19  
ENE  
1/2-1  
0.616 mi.  
3250 ft.

**EXIT RAMP**  
**RTE 3 SOUTH @ RTE 53 EXIT**  
**HANOVER, MA 02339**

**SHWS S103812292**  
**RELEASE N/A**

**Relative:**  
**Higher**  
**Actual:**  
**120 ft.**

**SHWS:**  
Name: EXIT RAMP  
Address: RTE 3 SOUTH @ RTE 53 EXIT  
City,State,Zip: HANOVER, MA 02339  
Facility ID: 4-0010100  
Source Type: TANKER  
Release Town: HANOVER  
Notification Date: 11/21/1993  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 11/22/1994  
Phase: Not reported  
Response Action Outcome: A2  
Oil Or Haz Material: Oil

**Release:**  
Name: EXIT RAMP  
Address: RTE 3 SOUTH @ RTE 53 EXIT  
City,State,Zip: HANOVER, MA 02339  
Release Tracking Number/Current Status: 4-0010100 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 11/21/1993  
Category: TWO HR  
Status Date: 11/22/1994  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

**Actions:**  
Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 11/21/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.  
  
Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 11/21/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.  
  
Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 11/21/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXIT RAMP (Continued)**

**S103812292**

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 11/22/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 11/22/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 11/23/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 11/25/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 11/26/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 11/30/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 12/2/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Imminent Hazard Evaluation Received  
Action Date: 12/22/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 12/22/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 12/22/1993

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXIT RAMP (Continued)**

**S103812292**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 3/30/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 4/21/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 7/20/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 8/22/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: GASOLINE  
Quantity: 11000 gallons  
Chemical: GASOLINE  
Quantity: 11700 gallons  
Location Type: WOODEDAREA  
Location Type: STATE  
Location Type: ROADWAY  
Source: TANKER

20  
ENE  
1/2-1  
0.661 mi.  
3489 ft.

**JANNELL FORD**  
**2000 WASHINGTON STREET**  
**HANOVER, MA 02340**

**SHWS S111989515**  
**LAST N/A**  
**RELEASE**  
**HW GEN**

**Relative:**  
**Higher**  
**Actual:**  
**116 ft.**

SHWS:  
Name: JANNELL FORD  
Address: 2000 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Facility ID: 4-0023949  
Source Type: UNKNOWN  
Release Town: HANOVER  
Notification Date: 05/14/2012  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 08/22/2012  
Phase: Not reported  
Response Action Outcome: A2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JANNELL FORD (Continued)**

**S111989515**

Oil Or Haz Material: Not reported

LAST:

Name: JANNELL FORD  
Address: 2000 WASHINGTON STREET  
City,State,Zip: HANOVER, MA 023400000  
Release Tracking Number/Current Status: 4-0027929 / PSNC  
Source Type: AST  
Release Town: HANOVER  
Notification Date: 08/24/2019  
Category: TWO HR  
Associated ID: Not reported  
Status Date: 10/23/2019  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil Or Haz Material: Not reported

Chemicals:

Chemical: Not reported  
Quantity: Not reported  
Location Type: COMMERCIAL  
Source: AST

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: PSNRCD  
Action Date: 10/23/2019  
Response Action Outcome: PN

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 10/23/2019  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 4/6/2020  
Response Action Outcome: PN

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 8/24/2019  
Response Action Outcome: PN

Action Type: RLFA  
Action Status: FLDD1U  
Action Date: 8/24/2019  
Response Action Outcome: PN

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: FLDISS  
Action Date: 8/27/2019  
Response Action Outcome: PN

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 9/11/2019  
Response Action Outcome: PN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JANNELL FORD (Continued)**

**S111989515**

Release:

Name: JANNELL FORD  
Address: 2000 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Release Tracking Number/Current Status: 4-0023949 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 05/14/2012  
Category: TWO HR  
Status Date: 08/22/2012  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 5/14/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 5/14/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 5/16/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 7/16/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 8/22/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action  
Action Status: Notice of Non-Compliance Issued  
Action Date: 8/23/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FLDRUN



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JANNELL FORD (Continued)**

**S111989515**

Action Date: 9/29/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: HYDRAULIC OIL  
Quantity: 20 gallons  
Location Type: COMMERCIAL  
Source: UNKNOWN

Name: JANNELL FORD  
Address: 2000 WASHINGTON STREET  
City,State,Zip: HANOVER, MA 023400000  
Release Tracking Number/Current Status: 4-0027929 / PSNC  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 08/24/2019  
Category: TWO HR  
Status Date: 10/23/2019  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: PSNRCD  
Action Date: 10/23/2019  
Response Action Outcome: PN

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 10/23/2019  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 4/6/2020  
Response Action Outcome: PN

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 8/24/2019  
Response Action Outcome: PN

Action Type: RLFA  
Action Status: FLDD1U  
Action Date: 8/24/2019  
Response Action Outcome: PN

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: FLDISS  
Action Date: 8/27/2019  
Response Action Outcome: PN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JANNELL FORD (Continued)**

**S111989515**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 9/11/2019  
Response Action Outcome: PN

Chemicals:  
Chemical: Not reported  
Quantity: Not reported  
Location Type: COMMERCIAL  
Source: AST

HW GEN:  
Name: JANNELL FORD OF HANOVER  
Address: 2000 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAR000011742  
RCRA Generator Status: VSQG  
State Generator Status: LQG-MA

21  
East  
1/2-1  
0.668 mi.  
3528 ft.

**FIVE STAR**  
**1808 WASHINGTON ST**  
**HANOVER, MA 02339**

**SHWS U001007154**  
**LUST N/A**  
**UST**  
**AST**  
**RELEASE**  
**Financial Assurance**  
**HW GEN**

Relative:  
Higher

Actual:  
120 ft.

SHWS:  
Name: TEXACO SERVICE STATION  
Address: 1808 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0017188  
Source Type: Not reported  
Release Town: HANOVER  
Notification Date: 06/28/2002  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 06/19/2003  
Phase: Not reported  
Response Action Outcome: B1  
Oil Or Haz Material: Hazardous Material

Name: SHELL BRANDED SERVICE STATION  
Address: 1808 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0021100  
Source Type: Not reported  
Release Town: HANOVER  
Notification Date: 01/11/2008  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 12/29/2008  
Phase: Not reported  
Response Action Outcome: A2  
Oil Or Haz Material: Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

LUST:

Facility:

Name: SHELL SS #10018  
Address: 1808 WASHINGTON ST  
City,State,Zip: HANOVER, MA  
**Current Status: Response Action Outcome**  
Release Tracking Number/Current Status: 4-0021134 / RAO  
Status Date: 01/12/2009  
Source Type: UST  
Release Town: HANOVER  
Notification Date: 03/18/2008  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil Or Haz Material: Oil  
Location Type: COMMERCIAL  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: GASOLINE  
Quantity: 0.05 gallons per hour

Actions:

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 1/12/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 1/12/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 1/26/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: IRA Assessment Only  
Action Date: 3/18/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Action Date: 3/18/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 3/19/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 3/6/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 3/6/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 5/19/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 5/19/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 7/8/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**Facility:**

Name: DANNYS TEXACO STATION  
Address: 1808 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
**Current Status:** **Response Action Outcome**  
Release Tracking Number/Current Status: 4-0000803 / RAO  
Status Date: 11/12/1996  
Source Type: UST  
Release Town: HANOVER  
Notification Date: 01/15/1990  
Category: NONE  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil Or Haz Material: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Location Type: GASSTATION  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

**Chemicals:**

Chemical: UNKNOWN  
Quantity: Not reported

**Actions:**

Action Type: Release Disposition  
Action Status: Valid Transition Site  
Action Date: 1/15/1990  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Status: WAVSIG  
Action Date: 1/30/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Completion Statement Received  
Action Date: 11/12/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 11/12/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Status: WAVACC  
Action Date: 2/5/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 4/10/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Status: WAVREC  
Action Date: 7/24/1991  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Scope of Work Received  
Action Date: 7/29/1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: An activity type that is related to an Audit  
Action Status: NAFNVD  
Action Date: 9/6/1991  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

UST:

Facility:

Name: FIVE STAR  
Address: 1808 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
Facility ID: 13349  
Owner Id: 10196  
Owner: HANOVER FIVE STAR LLC  
Owner Address: 1808 WASHINGTON ST  
Owner City,St,Zip: HANOVER, MA 02339  
Telephone: 7818262365  
Description: Retail Motor Vehicle Fuel Dispensing  
Facility address 2: Not reported  
Owner address 2: Not reported  
Latitude: 42.14795  
Longitude: -70.84598  
Contact name: Ghassan Tannous  
Contact address1: 1808 Washington St  
Contact address2: Not reported  
Contact city: Hanover  
Contact state: MA  
Contact zip: 02339  
Contact email: jasontannous@aol.com  
Update: 2021-12-16 00:00:00  
Update by: Karen Staple  
Fac status: OPEN

Tank ID: 1  
**Tank Status: Tank Removed**  
Status Date: 09/09/1989  
Date Installed: 05/05/1966  
Capacity: 10000.00000  
Contents: Diesel  
Tank Usage: Not reported  
Tank Leak Detection: Not reported  
Pipe Leak Detection: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Tank construct: Not reported  
Pipe construct: Not reported  
Ptype: Not reported  
Number of compartment: Not reported  
Pipe install date: Not reported  
Pipe leak install date: Not reported  
Submersible sump: N



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Submersible sump install date: Not reported  
Turbine sump: N  
Turbine sump sensor: N  
Intermediate sump: N  
Intermediate sump sensor: N  
Spill bucket installed date: Not reported  
Spill bucket sensor: N  
Overfill protect install: Not reported  
Overfill protect type: Not reported  
Automatic line leak detect: Not reported  
Tank corrosion type: Not reported  
Leak corrosion type: Not reported

Tank ID: 10  
**Tank Status: Tank Removed**  
Status Date: 09/11/1996  
Date Installed: 09/01/1989  
Capacity: 550.00000  
Contents: Waste Oil  
Tank Usage: Not reported  
Tank Leak Detection: Continuous Interstitial Monitoring  
Pipe Leak Detection: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Tank construct: Double-walled non-corrodible (including "composite") material (cathodic protection not required)  
Pipe construct: Not reported  
Ptype: Not reported  
Number of compartment: Not reported  
Pipe install date: Not reported  
Pipe leak install date: Not reported  
Submersible sump: N  
Submersible sump install date: Not reported  
Turbine sump: N  
Turbine sump sensor: N  
Intermediate sump: N  
Intermediate sump sensor: N  
Spill bucket installed date: Not reported  
Spill bucket sensor: N  
Overfill protect install: Not reported  
Overfill protect type: Not reported  
Automatic line leak detect: Not reported  
Tank corrosion type: Not reported  
Leak corrosion type: Not reported

Tank ID: 2  
**Tank Status: Tank Removed**  
Status Date: 10/10/1990  
Date Installed: 05/05/1966  
Capacity: 10000.00000  
Contents: Gasoline  
Tank Usage: Not reported  
Tank Leak Detection: Not reported  
Pipe Leak Detection: Not reported  
Latitude: Not reported  
Longitude: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Tank construct: Not reported  
Pipe construct: Not reported  
Ptype: Not reported  
Number of compartment: Not reported  
Pipe install date: Not reported  
Pipe leak install date: Not reported  
Submersible sump: N  
Submersible sump install date: Not reported  
Turbine sump: N  
Turbine sump sensor: N  
Intermediate sump: N  
Intermediate sump sensor: N  
Spill bucket installed date: Not reported  
Spill bucket sensor: N  
Overfill protect install: Not reported  
Overfill protect type: Not reported  
Automatic line leak detect: Not reported  
Tank corrosion type: Not reported  
Leak corrosion type: Not reported

Tank ID: 3  
**Tank Status: Tank Removed**  
Status Date: 05/10/1990  
Date Installed: 05/05/1966  
Capacity: 10000.00000  
Contents: Gasoline  
Tank Usage: Not reported  
Tank Leak Detection: Not reported  
Pipe Leak Detection: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Tank construct: Not reported  
Pipe construct: Not reported  
Ptype: Not reported  
Number of compartment: Not reported  
Pipe install date: Not reported  
Pipe leak install date: Not reported  
Submersible sump: N  
Submersible sump install date: Not reported  
Turbine sump: N  
Turbine sump sensor: N  
Intermediate sump: N  
Intermediate sump sensor: N  
Spill bucket installed date: Not reported  
Spill bucket sensor: N  
Overfill protect install: Not reported  
Overfill protect type: Not reported  
Automatic line leak detect: Not reported  
Tank corrosion type: Not reported  
Leak corrosion type: Not reported

Tank ID: 4  
**Tank Status: Tank Removed**  
Status Date: 09/09/1989  
Date Installed: 05/05/1968

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Capacity: 6000.00000  
Contents: Gasoline  
Tank Usage: Not reported  
Tank Leak Detection: Not reported  
Pipe Leak Detection: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Tank construct: Not reported  
Pipe construct: Not reported  
Ptype: Not reported  
Number of compartment: Not reported  
Pipe install date: Not reported  
Pipe leak install date: Not reported  
Submersible sump: N  
Submersible sump install date: Not reported  
Turbine sump: N  
Turbine sump sensor: N  
Intermediate sump: N  
Intermediate sump sensor: N  
Spill bucket installed date: Not reported  
Spill bucket sensor: N  
Overfill protect install: Not reported  
Overfill protect type: Not reported  
Automatic line leak detect: Not reported  
Tank corrosion type: Not reported  
Leak corrosion type: Not reported

Tank ID: 5  
**Tank Status: Tank Removed**  
Status Date: 09/09/1989  
Date Installed: 05/05/1966  
Capacity: 500.00000  
Contents: Waste Oil  
Tank Usage: Not reported  
Tank Leak Detection: Not reported  
Pipe Leak Detection: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Tank construct: Not reported  
Pipe construct: Not reported  
Ptype: Not reported  
Number of compartment: Not reported  
Pipe install date: Not reported  
Pipe leak install date: Not reported  
Submersible sump: N  
Submersible sump install date: Not reported  
Turbine sump: N  
Turbine sump sensor: N  
Intermediate sump: N  
Intermediate sump sensor: N  
Spill bucket installed date: Not reported  
Spill bucket sensor: N  
Overfill protect install: Not reported  
Overfill protect type: Not reported  
Automatic line leak detect: Not reported  
Tank corrosion type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Leak corrosion type: Not reported

Tank ID: 6  
**Tank Status: Tank Closure In-Place**  
Status Date: 10/01/2008  
Date Installed: 09/01/1989  
Capacity: 10000.00000  
Contents: Unregulated Content  
Tank Usage: Not reported  
Tank Leak Detection: Not reported  
Pipe Leak Detection: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Tank construct: Not reported  
Pipe construct: Not reported  
Ptype: Not reported  
Number of compartment: Not reported  
Pipe install date: Not reported  
Pipe leak install date: Not reported  
Submersible sump: N  
Submersible sump install date: Not reported  
Turbine sump: N  
Turbine sump sensor: N  
Intermediate sump: N  
Intermediate sump sensor: N  
Spill bucket installed date: Not reported  
Spill bucket sensor: N  
Overfill protect install: Not reported  
Overfill protect type: Not reported  
Automatic line leak detect: Not reported  
Tank corrosion type: Not reported  
Leak corrosion type: Not reported

Tank ID: 7  
**Tank Status: In Use**  
Status Date: Not reported  
Date Installed: 09/01/1989  
Capacity: 10000.00000  
Contents: Gasoline  
Tank Usage: Motor Vehicle  
Tank Leak Detection: Continuous Interstitial Monitoring  
Pipe Leak Detection: Continuous Interstitial Space Monitoring  
Latitude: 42.14811  
Longitude: -70.84585  
Tank construct: Double-walled non-corrodible (including "composite") material (cathodic protection not required)  
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)  
Ptype: Pressurized piping system with mechanical automatic line leak detection  
Number of compartment: Not reported  
Pipe install date: 09/01/1989  
Pipe leak install date: Not reported  
Submersible sump: Y  
Submersible sump install date: Not reported  
Turbine sump: Y  
Turbine sump sensor: Y  
Intermediate sump: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Intermediate sump sensor: N  
Spill bucket installed date: Not reported  
Spill bucket sensor: N  
Overfill protect install: Not reported  
Overfill protect type: High level alarm  
Automatic line leak detect: Not reported  
Tank corrosion type: Not reported  
Leak corrosion type: Not reported

Tank ID: 8  
**Tank Status: In Use**  
Status Date: Not reported  
Date Installed: 09/01/1989  
Capacity: 10000.00000  
Contents: Gasoline  
Tank Usage: Motor Vehicle  
Tank Leak Detection: Continuous Interstitial Monitoring  
Pipe Leak Detection: Continuous Interstitial Space Monitoring  
Latitude: 42.14811  
Longitude: -70.84589  
Tank construct: Double-walled non-corrodible (including "composite") material (cathodic protection not required)  
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)  
Ptype: Pressurized piping system with mechanical automatic line leak detection  
Number of compartment: Not reported  
Pipe install date: 09/01/1989  
Pipe leak install date: Not reported  
Submersible sump: Y  
Submersible sump install date: Not reported  
Turbine sump: Y  
Turbine sump sensor: Y  
Intermediate sump: N  
Intermediate sump sensor: N  
Spill bucket installed date: Not reported  
Spill bucket sensor: N  
Overfill protect install: Not reported  
Overfill protect type: High level alarm  
Automatic line leak detect: Not reported  
Tank corrosion type: Not reported  
Leak corrosion type: Not reported

Tank ID: 9  
**Tank Status: In Use**  
Status Date: Not reported  
Date Installed: 11/01/1981  
Capacity: 10000.00000  
Contents: Diesel  
Tank Usage: Motor Vehicle  
Tank Leak Detection: Continuous In-Tank Monitoring System  
Pipe Leak Detection: Continuous Interstitial Space Monitoring  
Latitude: 42.14786  
Longitude: -70.84586  
Tank construct: Single-walled non-corrodible (including "composite") material (cathodic protection not required)  
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)  
Ptype: Pressurized piping system with mechanical automatic line leak detection  
Number of compartment: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Pipe install date: 11/01/1989  
Pipe leak install date: Not reported  
Submersible sump: Y  
Submersible sump install date: Not reported  
Turbine sump: Y  
Turbine sump sensor: Y  
Intermediate sump: N  
Intermediate sump sensor: N  
Spill bucket installed date: Not reported  
Spill bucket sensor: N  
Overfill protect install: Not reported  
Overfill protect type: High level alarm  
Automatic line leak detect: Not reported  
Tank corrosion type: Not reported  
Leak corrosion type: Not reported

**AST:**

Facility ID: 323431  
Name: FIVE STAR SHELL  
Address: 1808 WASHINGTON ST  
City, State, Zip: HANOVER, MA 02339-0000  
Owner ID: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner Zip: Not reported  
Owner Name: FIVE STAR OPERATING BUSINESS LLC  
Tank Type: UST  
Class: STG1  
Stage I Type: Dual-Point  
CARB # or System Type: Component EVR  
Test Cycle: TestReq  
Date Form Mailed: 05/31/2022  
Test Date: 09/21/2022  
Postmark Date: 10/06/2022  
Due Date: 10/15/2022  
Product Type: Screw-on  
Vapor Type: Screw-on  
Form: FormD2  
Form Rcvd and Complete: Complete  
Description: Not reported  
Telephone: Not reported  
Fire Department: Not reported  
Date of Inspection: Not reported  
Inspector: Not reported  
Overfill Prevention: Not reported  
Tank ID: Not reported  
Serial Number: Not reported  
Spill Prevention: Not reported  
Tank Status: Not reported  
Capacity: Not reported  
Contents: Not reported  
Tank Use: Not reported  
Tank Material: Not reported  
Tank Construction: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Pipe Construction: Not reported  
Pipe Leak Detection: Not reported  
Aboveground: Not reported

Release:

Name: DANNYS TEXACO STATION  
Address: 1808 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
Release Tracking Number/Current Status: 4-0000803 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 01/15/1990  
Category: NONE  
Status Date: 11/12/1996  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Release Disposition  
Action Status: Valid Transition Site  
Action Date: 1/15/1990  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Status: WAVSIG  
Action Date: 1/30/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Completion Statement Received  
Action Date: 11/12/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 11/12/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Status: WAVACC  
Action Date: 2/5/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 4/10/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

reduced to background.

Action Type: TREGS  
Action Status: WAVREC  
Action Date: 7/24/1991  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Scope of Work Received  
Action Date: 7/29/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: An activity type that is related to an Audit  
Action Status: NAFNVD  
Action Date: 9/6/1991  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:

Chemical: UNKNOWN  
Quantity: Not reported  
Location Type: GASSTATION  
Source: UST

Name: TEXACO SERVICE STATION  
Address: 1808 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0017188 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 06/28/2002  
Category: 120 DY  
Status Date: 06/19/2003  
Phase: Not reported  
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.  
Oil / Haz Material Type: Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 6/19/2003  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 6/23/2003  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Action Status: Reportable Release under MGL 21E  
Action Date: 6/28/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 6/28/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 9/10/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemicals:

Chemical: 2-METHYLNAPHTHALENE  
Quantity: 500 parts per million  
Chemical: ACENAPHTHENE  
Quantity: 1000 parts per million  
Chemical: ANTHRACENE  
Quantity: 1000 parts per million  
Chemical: BENZOANTHRACENE  
Quantity: 0.7 parts per million

Name: SHELL BRANDED SERVICE STATION  
Address: 1808 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0021100 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 01/11/2008  
Category: 120 DY  
Status Date: 12/29/2008  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/11/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/11/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	1/26/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	11/10/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	12/23/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	12/29/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	2/18/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	5/19/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Fee Received - FMCRA Use Only
Action Date:	5/20/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	5/6/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	6/16/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	9/8/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:

Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS  
Quantity: 1700 micrograms per liter  
Location Type: COMMERCIAL

Name: SHELL SS #10018  
Address: 1808 WASHINGTON ST  
City,State,Zip: HANOVER, MA  
Release Tracking Number/Current Status: 4-0021134 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 03/18/2008  
Category: 72 HR  
Status Date: 01/12/2009  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 1/12/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 1/12/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 1/26/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: IRA Assessment Only  
Action Date: 3/18/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 3/18/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIVE STAR (Continued)**

**U001007154**

Action Status: FOLOFF  
Action Date: 3/19/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 3/6/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 3/6/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 5/19/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 5/19/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 7/8/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: GASOLINE  
Quantity: 0.05 gallons per hour  
Location Type: COMMERCIAL  
Source: UST

MA Financial Assurance 2:  
Name: FIVE STAR  
Address: 1808 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
Facility Id: 13349  
Description: Private  
FR Type: Commercial Insurance

HW GEN:  
Name: FIVE STAR SHELL  
Address: 1808 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAD985279959  
RCRA Generator Status: Not reported  
State Generator Status: SQG-MA



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

22  
East  
1/2-1  
0.695 mi.  
3667 ft.

**NO LOCATION AID**  
**1485 WASHINGTON ST**  
**HANOVER, MA 02339**

**SHWS S104482778**  
**RELEASE N/A**

**Relative:**  
**Higher**

SHWS:

**Actual:**  
**117 ft.**

Name: NO LOCATION AID  
Address: 1485 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0015367  
Source Type: Not reported  
Release Town: HANOVER  
Notification Date: 03/17/2000  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 02/26/2001  
Phase: Not reported  
Response Action Outcome: B1  
Oil Or Haz Material: Hazardous Material

Release:

Name: NO LOCATION AID  
Address: 1485 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0015367 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 03/17/2000  
Category: 120 DY  
Status Date: 02/26/2001  
Phase: Not reported  
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.  
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 2/26/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 3/17/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 3/17/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104482778**

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 3/2/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 4/6/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
Action Date: 5/24/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemicals:  
Chemical: BENZO[A]ANTHRACENE  
Quantity: Not reported  
Chemical: BENZO[B]FLUORANTHENE  
Quantity: Not reported  
Chemical: BENZO[A]PYRENE  
Quantity: Not reported

**E23**  
**ENE**  
**1/2-1**  
**0.701 mi.**  
**3701 ft.**

**JIFFY LUBE**  
**1988 WASHINGTON STREET**  
**HANOVER, MA**

**SHWS S111460243**  
**RELEASE N/A**

**Site 1 of 2 in cluster E**

**Relative:**  
**Higher**  
**Actual:**  
**121 ft.**

SHWS:  
Name: JIFFY LUBE  
Address: 1988 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Facility ID: 4-0023795  
Source Type: VEHICLE  
Release Town: HANOVER  
Notification Date: 02/09/2012  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 02/28/2012  
Phase: Not reported  
Response Action Outcome: A1  
Oil Or Haz Material: Oil

Name: JIFFY LUBE  
Address: 1988 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Facility ID: 4-0023795  
Source Type: TANKER  
Release Town: HANOVER  
Notification Date: 02/09/2012  
Category: TWO HR  
Associated ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JIFFY LUBE (Continued)**

**S111460243**

Current Status: RAO  
Status Date: 02/28/2012  
Phase: Not reported  
Response Action Outcome: A1  
Oil Or Haz Material: Oil

Release:

Name: JIFFY LUBE  
Address: 1988 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Release Tracking Number/Current Status: 4-0023795 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 02/09/2012  
Category: TWO HR  
Status Date: 02/28/2012  
Phase: Not reported  
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 2/14/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 2/28/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 2/28/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 2/28/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 2/9/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:

Chemical: WASTE OIL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JIFFY LUBE (Continued)**

**S111460243**

Quantity: 20 gallons  
Location Type: COMMERCIAL  
Source: VEHICLE  
Source: TANKER

**F24  
East  
1/2-1  
0.717 mi.  
3784 ft.**

**HANOVER MALL  
RT-53  
HANOVER, MA  
Site 1 of 2 in cluster F**

**SHWS S108347960  
BROWNFIELDS N/A  
RELEASE**

**Relative:  
Higher**

SHWS:  
Name: HANOVER MALL  
Address: RT-53  
City,State,Zip: HANOVER, MA  
Facility ID: 4-0020171  
Source Type: TRANSFORM  
Release Town: HANOVER  
Notification Date: 11/20/2006  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 01/18/2007  
Phase: Not reported  
Response Action Outcome: A2  
Oil Or Haz Material: Not reported

**Actual:  
118 ft.**

**BROWNFIELDS 2:**

Name: HANOVER MALL  
Address: RT-53  
City,State,Zip: HANOVER, MA  
RTN: 4-0020171  
RAO Class: A2  
Other RTNs: Not reported  
Current Owner: 1775 Washington Street Holdings Llc  
MCP Status: RAO  
AUL: No  
COCs: Dielectric Fluid  
Former Use: Commercial  
Current Use: Not reported  
Total Acreage: 78.66  
Fact Sheet: Not reported

**Release:**

Name: HANOVER MALL  
Address: RT-53  
City,State,Zip: HANOVER, MA  
Release Tracking Number/Current Status: 4-0020171 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 11/20/2006  
Category: TWO HR  
Status Date: 01/18/2007  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Not reported

MAP FINDINGS

**HANOVER MALL (Continued)**

**S108347960**

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 1/18/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 1/18/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 11/20/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Release or TOR Less than Reporting Requirement  
Action Date: 11/20/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FLDD1U  
Action Date: 11/20/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 11/27/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 3/1/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**Chemicals:**

Chemical: DIELECTRIC FLUID  
Quantity: 7 gallons  
Location Type: COMMERCIAL  
Source: TRANSFORM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

G25  
NE  
1/2-1  
0.719 mi.  
3794 ft.

RT 53, WASHINGTON ST/WEBSTER ST  
2122 WASHINGTON ST  
HANOVER, MA 02339

Site 1 of 2 in cluster G

SHWS  
LUST  
RELEASE S105596808  
N/A

Relative:  
Higher

SHWS:

Actual:  
124 ft.

Name: NO LOCATION AID  
Address: 2122 WASHINGTON ST  
City, State, Zip: HANOVER, MA 023390000  
Facility ID: 4-0017303  
Source Type: Not reported  
Release Town: HANOVER  
Notification Date: 08/19/2002  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 12/18/2002  
Phase: Not reported  
Response Action Outcome: A2  
Oil Or Haz Material: Oil

LUST:

Facility:

Name: RT 53, WASHINGTON ST/WEBSTER ST  
Address: 2122 WASHINGTON ST  
City, State, Zip: HANOVER, MA 02339  
**Current Status: Response Action Outcome**  
Release Tracking Number/Current Status: 4-0010432 / RAO  
Status Date: 05/09/2001  
Source Type: UST  
Release Town: HANOVER  
Notification Date: 04/22/1994  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil Or Haz Material: Oil  
Location Type: ABANDONED  
Location Type: COMMERCIAL  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: GASOLINE  
Quantity: 1500 parts per million  
Chemical: DIESEL FUEL  
Quantity: 1500 parts per million  
Chemical: GASOLINE  
Quantity: Not reported

Actions:

Action Type: Immediate Response Action



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT 53, WASHINGTON ST/WEBSTER ST (Continued)**

**S105596808**

Action Status:	Written Plan Received
Action Date:	1/4/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	10/18/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	11/29/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	4/22/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/22/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	IRA Assessment Only
Action Date:	4/22/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	4/28/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	4/28/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	4/28/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	4/28/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT 53, WASHINGTON ST/WEBSTER ST (Continued)**

**S105596808**

reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 4/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 5/24/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: Legal Notice Published  
Action Date: 5/5/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 5/9/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 9/13/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Completion Statement Received  
Action Date: 9/9/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Scope of Work Received  
Action Date: 9/9/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Name: RT 53, WASHINGTON ST/WEBSTER ST  
Address: 2122 WASHINGTON ST  
City, State, Zip: HANOVER, MA 02339  
Release Tracking Number/Current Status: 4-0010432 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 04/22/1994  
Category: 72 HR  
Status Date: 05/09/2001  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT 53, WASHINGTON ST/WEBSTER ST (Continued)**

**S105596808**

Oil / Haz Material Type:                      been reduced to background.  
Oil

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type:                                      Immediate Response Action  
Action Status:                                    Written Plan Received  
Action Date:                                      1/4/1995  
Response Action Outcome:                    A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:                                      Immediate Response Action  
Action Status:                                    Written Plan Received  
Action Date:                                      10/18/1994  
Response Action Outcome:                    A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:                                      RLFA  
Action Status:                                    FOLOFF  
Action Date:                                      11/29/1994  
Response Action Outcome:                    A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:                                      Release Disposition  
Action Status:                                    Reportable Release under MGL 21E  
Action Date:                                      4/22/1994  
Response Action Outcome:                    A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:                                      A Notice sent to a Potentially Responsible Party (PRP)  
Action Status:                                    A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date:                                      4/22/1994  
Response Action Outcome:                    A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:                                      Immediate Response Action  
Action Status:                                    IRA Assessment Only  
Action Date:                                      4/22/1994  
Response Action Outcome:                    A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:                                      Immediate Response Action  
Action Status:                                    Completion Statement Received  
Action Date:                                      4/28/1995  
Response Action Outcome:                    A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:                                      Phase 1  
Action Status:                                    Completion Statement Received  
Action Date:                                      4/28/1995  
Response Action Outcome:                    A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:                                      Tier Classification  
Action Status:                                    Transmittal, Notice, or Notification Received  
Action Date:                                      4/28/1995

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

RT 53, WASHINGTON ST/WEBSTER ST (Continued)

S105596808

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: Tier 2 Classification  
Action Date: 4/28/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 4/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 5/24/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: Legal Notice Published  
Action Date: 5/5/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 5/9/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 9/13/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Completion Statement Received  
Action Date: 9/9/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Scope of Work Received  
Action Date: 9/9/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: GASOLINE  
Quantity: 1500 parts per million  
Chemical: DIESEL FUEL  
Quantity: 1500 parts per million  
Chemical: GASOLINE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT 53, WASHINGTON ST/WEBSTER ST (Continued)**

**S105596808**

Quantity: Not reported  
Location Type: ABANDONED  
Location Type: COMMERCIAL  
Source: UST  
  
Name: NO LOCATION AID  
Address: 2122 WASHINGTON ST  
City, State, Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0017303 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 08/19/2002  
Category: 120 DY  
Status Date: 12/18/2002  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 12/18/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 12/23/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 8/19/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 8/19/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 8/19/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 8/21/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

RT 53, WASHINGTON ST/WEBSTER ST (Continued)

S105596808

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 8/26/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Written Approval of Plan  
Action Date: 9/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 9/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 9/12/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 9/17/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 9/20/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS  
Quantity: 120 parts per million  
Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS  
Quantity: 12000 parts per million  
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS  
Quantity: 2600 parts per million

26  
East  
1/2-1  
0.725 mi.  
3827 ft.

FORMER BURGER KING  
1835 WASHINGTON STREET  
HANOVER, MA 02339

SHWS S125163391  
RELEASE N/A

Relative:  
Higher  
Actual:  
117 ft.

SHWS:  
Name: FORMER BURGER KING  
Address: 1835 WASHINGTON STREET  
City, State, Zip: HANOVER, MA 023390000  
Facility ID: 4-0027815  
Source Type: UNKNOWN  
Release Town: HANOVER



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER BURGER KING (Continued)**

**S125163391**

Notification Date: 06/10/2019  
Category: 120 DY  
Associated ID: Not reported  
Current Status: PSNC  
Status Date: 07/19/2019  
Phase: Not reported  
Response Action Outcome: PN  
Oil Or Haz Material: Not reported

Release:

Name: FORMER BURGER KING  
Address: 1835 WASHINGTON STREET  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0027815 / PSNC  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 06/10/2019  
Category: 120 DY  
Status Date: 07/19/2019  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 6/10/2019  
Response Action Outcome: PN

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 6/10/2019  
Response Action Outcome: PN

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 6/19/2019  
Response Action Outcome: PN

Action Type: Release Abatement Measure  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 6/25/2019  
Response Action Outcome: PN

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 7/1/2019  
Response Action Outcome: PN

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 7/19/2019  
Response Action Outcome: PN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER BURGER KING (Continued)**

**S125163391**

Action Type: Response Action Outcome - RAO  
Action Status: PSNRCD  
Action Date: 7/19/2019  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 9/19/2019  
Response Action Outcome: PN

Action Type: Release Abatement Measure  
Action Status: Level I - Technical Screen Audit  
Action Date: 9/19/2019  
Response Action Outcome: PN

Chemicals:  
Chemical: Not reported  
Quantity: Not reported  
Location Type: COMMERCIAL  
Source: UNKNOWN

**F27**  
**East**  
**1/2-1**  
**0.727 mi.**  
**3836 ft.**

**MOBIL SERV STA**  
**1451 WASHINGTON ST**  
**HANOVER, MA 02339**  
**Site 2 of 2 in cluster F**

**SHWS** **S101036738**  
**LUST** **N/A**  
**RELEASE**  
**SPILLS**  
**HW GEN**

**Relative:**  
**Higher**  
**Actual:**  
**117 ft.**

SHWS:  
Name: MOBIL GASOLINE STATION  
Address: 1451 WASHINGTON STREET  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0026699  
Source Type: OHMDELIVER  
Release Town: HANOVER  
Notification Date: 06/10/2017  
Category: TWO HR  
Associated ID: Not reported  
Current Status: PSNC  
Status Date: 08/16/2017  
Phase: Not reported  
Response Action Outcome: PN  
Oil Or Haz Material: Not reported

Name: MOBIL GASOLINE STATION  
Address: 1451 WASHINGTON STREET  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0026699  
Source Type: TANKER  
Release Town: HANOVER  
Notification Date: 06/10/2017  
Category: TWO HR  
Associated ID: Not reported  
Current Status: PSNC  
Status Date: 08/16/2017  
Phase: Not reported  
Response Action Outcome: PN  
Oil Or Haz Material: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Name: MOBIL GASOLINE STATION  
Address: 1451 WASHINGTON STREET  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0026699  
Source Type: HOSE  
Release Town: HANOVER  
Notification Date: 06/10/2017  
Category: TWO HR  
Associated ID: Not reported  
Current Status: PSNC  
Status Date: 08/16/2017  
Phase: Not reported  
Response Action Outcome: PN  
Oil Or Haz Material: Not reported

Name: MOBIL GAS STA NO 10838  
Address: 1451 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0019075  
Source Type: Not reported  
Release Town: HANOVER  
Notification Date: 05/05/2005  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 05/05/2006  
Phase: Not reported  
Response Action Outcome: B1  
Oil Or Haz Material: Not reported

Name: MOBIL SERVICE STATION 10838  
Address: 1451 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0022095  
Source Type: Not reported  
Release Town: HANOVER  
Notification Date: 08/17/2009  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 05/31/2011  
Phase: Not reported  
Response Action Outcome: Not reported  
Oil Or Haz Material: Hazardous Material

Name: MOBIL STATION 01 E3E  
Address: 1451 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
Facility ID: 4-0001007  
Source Type: PIPE  
Release Town: HANOVER  
Notification Date: 01/15/1992  
Category: NONE  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 05/31/2011  
Phase: PHASE V

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Response Action Outcome: A2  
Oil Or Haz Material: Oil

LUST:

Facility:

Name: MOBIL  
Address: 1451 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
**Current Status: Response Action Outcome**  
Release Tracking Number/Current Status: 4-0012584 / RAO  
Status Date: 05/31/2011  
Source Type: UST  
Release Town: HANOVER  
Notification Date: 10/21/1996  
Category: 72 HR  
Associated ID: Not reported  
Phase: PHASE V  
Response Action Outcome: -  
Oil Or Haz Material: Oil

Location Type: COMMERCIAL  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: GASOLINE  
Quantity: Not reported

Actions:

Action Type: Phase 4  
Action Status: Completion Statement Received  
Action Date: 1/25/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/31/2018  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 1/6/1997  
Response Action Outcome: Not reported

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/7/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 1/7/1997  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Action Type:	Response Action Outcome - RAO
Action Status:	Periodic Review Opinion Evaluating Temp Solution
Action Date:	1/9/2002
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	10/21/1996
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Revised Statement or Transmittal Received
Action Date:	10/24/1997
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	10/24/1997
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Passive O&M and/or Monitoring
Action Date:	10/24/1997
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	10/24/1997
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	11/1/2006
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Revised Statement or Transmittal Received
Action Date:	11/15/2010
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	11/4/2005
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	11/7/2001
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	11/7/2002
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FOLOFF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Action Date: 12/20/1996  
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 12/30/1996  
Response Action Outcome: Not reported

Action Type: Phase 5  
Action Status: Remedy Operation Status Submittal Received  
Action Date: 12/4/2000  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 5/31/2011  
Response Action Outcome: Not reported

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/5/2003  
Response Action Outcome: Not reported

Facility:

Name: MOBIL STATION 01 E3E  
Address: 1451 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
**Current Status:** **Response Action Outcome**  
Release Tracking Number/Current Status: 4-0001007 / RAO  
Status Date: 05/31/2011  
Source Type: UST  
Release Town: HANOVER  
Notification Date: 01/15/1992  
Category: NONE  
Associated ID: Not reported  
Phase: PHASE V  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Oil Or Haz Material: Oil

Location Type: GASSTATION  
Source: PIPE  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: WASTE OIL  
Quantity: Not reported

Actions:

Action Type: Phase 4  
Action Status: Completion Statement Received  
Action Date: 1/25/2001



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/31/2018  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Completion Statement Received  
Action Date: 1/6/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3  
Action Status: Completion Statement Received  
Action Date: 1/6/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 1/6/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Periodic Review Opinion Evaluating Temp Solution  
Action Date: 1/9/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 10/24/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Revised Statement or Transmittal Received  
Action Date: 10/24/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 10/24/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Status or Interim Report Received  
Action Date: 11/1/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Action Type: Response Action Outcome - RAO  
Action Status: Inspection and Monitoring Report Received  
Action Date: 11/1/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: RMRINT  
Action Date: 11/15/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Revised Statement or Transmittal Received  
Action Date: 11/15/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 11/15/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 11/4/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Inspection and Monitoring Report Received  
Action Date: 11/4/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 11/5/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 11/5/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 11/6/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: RMRINT  
Action Date: 11/6/2007

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	11/6/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	11/6/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	11/7/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	11/7/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	11/7/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	11/7/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	TREGS
Action Status:	WAVSIG
Action Date:	12/23/1991
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Remedy Operation Status Submittal Received
Action Date:	12/28/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	12/30/1991
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Action Type: TREGS  
Action Status: WAVACC  
Action Date: 12/30/1991  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 4  
Action Status: Written Plan Received  
Action Date: 12/4/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: RMRINT  
Action Date: 5/10/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 5/10/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/2/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 5/31/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/5/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/5/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/5/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/5/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/6/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 5/7/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: RMRINT  
Action Date: 5/7/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 5/8/2008

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: RMRINT  
Action Date: 5/8/2008

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 5/8/2009

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: RMRINT  
Action Date: 5/8/2009

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FLDRUN  
Action Date: 6/8/2009

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 7/16/2008

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Action Type: Phase 1  
Action Status: Completion Statement Received  
Action Date: 7/31/1991  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Status: WAVREC  
Action Date: 8/30/1991  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: ROSTRN  
Action Date: 9/10/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Name: MOBIL STATION 01 E3E  
Address: 1451 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
Release Tracking Number/Current Status: 4-0001007 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 01/15/1992  
Category: NONE  
Status Date: 05/31/2011  
Phase: PHASE V  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:  
Action Type: Phase 4  
Action Status: Completion Statement Received  
Action Date: 1/25/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/31/2018  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Completion Statement Received  
Action Date: 1/6/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Action Status:	Completion Statement Received
Action Date:	1/6/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	1/6/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Periodic Review Opinion Evaluating Temp Solution
Action Date:	1/9/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	10/24/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Revised Statement or Transmittal Received
Action Date:	10/24/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	10/24/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	11/1/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	11/1/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	11/15/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Revised Statement or Transmittal Received
Action Date:	11/15/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 11/15/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 11/4/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Inspection and Monitoring Report Received  
Action Date: 11/4/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 11/5/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 11/5/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 11/6/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: RMRINT  
Action Date: 11/6/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: RMRINT  
Action Date: 11/6/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 11/6/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Action Status:	Inspection and Monitoring Report Received
Action Date:	11/7/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	11/7/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	11/7/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	11/7/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	TREGS
Action Status:	WAVSIG
Action Date:	12/23/1991
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Remedy Operation Status Submittal Received
Action Date:	12/28/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	12/30/1991
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	TREGS
Action Status:	WAVACC
Action Date:	12/30/1991
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 4
Action Status:	Written Plan Received
Action Date:	12/4/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	5/10/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 5/10/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/2/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 5/31/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/5/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/5/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/5/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/5/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/6/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 5/7/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Action Status: RMRINT  
Action Date: 5/7/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 5/8/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: RMRINT  
Action Date: 5/8/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: Remedy Operation Status Report Received  
Action Date: 5/8/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: RMRINT  
Action Date: 5/8/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FLDRUN  
Action Date: 6/8/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 7/16/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1  
Action Status: Completion Statement Received  
Action Date: 7/31/1991  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Status: WAVREC  
Action Date: 8/30/1991  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5  
Action Status: ROSTRN  
Action Date: 9/10/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

reduced to background.

Chemicals:

Chemical: WASTE OIL  
Quantity: Not reported  
Location Type: GASSTATION  
Source: PIPE  
Source: UST

Name: MOBIL  
Address: 1451 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0012584 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 10/21/1996  
Category: 72 HR  
Status Date: 05/31/2011  
Phase: PHASE V  
Response Action Outcome: -  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Phase 4  
Action Status: Completion Statement Received  
Action Date: 1/25/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/31/2018  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 1/6/1997  
Response Action Outcome: Not reported

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/7/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 1/7/1997  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: Periodic Review Opinion Evaluating Temp Solution  
Action Date: 1/9/2002  
Response Action Outcome: Not reported

Action Type: Release Disposition



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Action Status:	Reportable Release under MGL 21E
Action Date:	10/21/1996
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Revised Statement or Transmittal Received
Action Date:	10/24/1997
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	10/24/1997
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Passive O&M and/or Monitoring
Action Date:	10/24/1997
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	10/24/1997
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	11/1/2006
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Revised Statement or Transmittal Received
Action Date:	11/15/2010
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	11/4/2005
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	11/7/2001
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	11/7/2002
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	12/20/1996
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	12/30/1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Response Action Outcome: Not reported  
  
Action Type: Phase 5  
Action Status: Remedy Operation Status Submittal Received  
Action Date: 12/4/2000  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 5/31/2011  
Response Action Outcome: Not reported

Action Type: Phase 5  
Action Status: Inspection and Monitoring Report Received  
Action Date: 5/5/2003  
Response Action Outcome: Not reported

Chemicals:

Chemical: GASOLINE  
Quantity: Not reported  
Location Type: COMMERCIAL  
Source: UST

Name: MOBIL GAS STA NO 10838  
Address: 1451 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0019075 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 05/05/2005  
Category: 120 DY  
Status Date: 05/05/2006  
Phase: Not reported  
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.  
  
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 5/4/2006  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 5/5/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 5/5/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Significant Risk exists.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 5/5/2006  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 6/23/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 8/17/2006  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemicals:  
Chemical: BERYLIUM  
Quantity: 1.1 parts per million

Name: MOBIL SERVICE STATION 10838  
Address: 1451 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0022095 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 08/17/2009  
Category: 120 DY  
Status Date: 05/31/2011  
Phase: Not reported  
Response Action Outcome: -  
Oil / Haz Material Type: Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

Actions:  
Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 1/13/2010  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/31/2018  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 1/6/1997  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Action Status: Periodic Review Opinion Evaluating Temp Solution  
Action Date: 1/9/2002  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: Revised Statement or Transmittal Received  
Action Date: 10/24/1997  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: Inspection and Monitoring Report Received  
Action Date: 11/1/2006  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: Revised Statement or Transmittal Received  
Action Date: 11/15/2010  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: Inspection and Monitoring Report Received  
Action Date: 11/4/2005  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 5/31/2011  
Response Action Outcome: Not reported

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 8/17/2009  
Response Action Outcome: Not reported

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 8/17/2009  
Response Action Outcome: Not reported

Chemicals:

Chemical: PYRENE  
Quantity: 42.6 micrograms per liter

Name: MOBIL GASOLINE STATION  
Address: 1451 WASHINGTON STREET  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0026699 / PSNC  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 06/10/2017  
Category: TWO HR  
Status Date: 08/16/2017  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil / Haz Material Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	4/24/2020
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	4/24/2020
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	IRA Conducted Prior to Notification
Action Date:	6/10/2017
Response Action Outcome:	PN
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	6/10/2017
Response Action Outcome:	PN
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	6/10/2017
Response Action Outcome:	PN
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	8/10/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	8/16/2017
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	PSNRCD
Action Date:	8/16/2017
Response Action Outcome:	PN

**Chemicals:**

Chemical:	Not reported
Quantity:	Not reported
Location Type:	PRIVPROP
Location Type:	STATE
Location Type:	COMMERCIAL
Source:	OHMDELIVER
Source:	TANKER
Source:	HOSE

**MA Spills:**

Facility ID:	4-1007	Spill ID:	S91-0168
Staff Lead:	PINAUD, L	Date Entered:	19920227

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOBIL SERV STA (Continued)**

**S101036738**

Last Entered: 19920227  
Spill Date: 19910402  
Report Date: 19910402  
Case Closed: YES  
Virgin Waste: VIRGIN  
Env Impact: SOIL  
Material: GASOLINE  
Qty Reported: UNKNOWN  
Qty Reported: -----  
CAS No: Not reported  
Source: U.S.T.  
Incident: OVERFILL  
Cleanup Type: ---  
Referral: SA  
Report Prep: Not reported  
Notifier: AMY LEMMONS/MOBIL OIL  
Notif Tel: Not reported  
Days/Close: 209

First Response: 19910402  
Spill Time: 09:00AM  
Report Time: 09:20AM  
Mat Type: PETROLEUM  
Contam Soil: Not reported  
Other Impact: Not reported  
Other Material: Not reported  
Qty Actual: UNKNOWN  
Qty Actual: -----  
PCB Lev (ppm): NONE  
Other Source: Not reported  
Other Incdnt: Not reported  
Contractor: NOT USED  
LUST Elig: ---  
Category: Not reported

Facility ID: 4-1007  
Staff Lead: MORAN, M  
Last Entered: 19900511  
Spill Date: 19900402  
Report Date: 19900402  
Case Closed: YES  
Virgin Waste: VIRGIN  
Env Impact: SOIL  
Material: GASOLINE  
Qty Reported: UNKNOWN  
Qty Reported: GALLONS  
CAS No: Not reported  
Source: U.S.T.  
Incident: TANK REMOVAL  
Cleanup Type: ---  
Referral: SA  
Report Prep: Not reported  
Notifier: DEP CHF BLANCHARD/FD  
Notif Tel: Not reported  
Days/Close: 1

Spill ID: S90-0224  
Date Entered: Not reported  
First Response: 19900402  
Spill Time: Not reported  
Report Time: Not reported  
Mat Type: PETROLEUM  
Contam Soil: Not reported  
Other Impact: Not reported  
Other Material: Not reported  
Qty Actual: UNKNOWN  
Qty Actual: GALLONS  
PCB Lev (ppm): -----  
Other Source: Not reported  
Other Incdnt: Not reported  
Contractor: NOT USED  
LUST Elig: ---  
Category: Not reported

**HW GEN:**

Name: MOBIL 2512  
Address: 1451 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAD982198574  
RCRA Generator Status: VSQG  
State Generator Status: VQG-MA



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

28  
ENE  
1/2-1  
0.734 mi.  
3873 ft.

RTE 3  
RTE 53  
HANOVER, MA 02339

SHWS S105522229  
RELEASE N/A

Relative:  
Lower  
Actual:  
107 ft.

SHWS:  
Name: RTE 3  
Address: RTE 53  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0016993  
Source Type: Not reported  
Release Town: HANOVER  
Notification Date: 04/09/2002  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 11/25/2002  
Phase: Not reported  
Response Action Outcome: A1  
Oil Or Haz Material: Not reported

Release:  
Name: RTE 3  
Address: RTE 53  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0016993 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 04/09/2002  
Category: TWO HR  
Status Date: 11/25/2002  
Phase: Not reported  
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:  
Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 11/25/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
  
Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 11/25/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
  
Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 11/25/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RTE 3 (Continued)**

**S10552229**

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 11/25/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 11/25/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 11/26/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
Action Date: 4/19/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 4/9/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 4/9/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FLDDO  
Action Date: 4/9/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Compliance and Enforcement Action  
Action Status: Notice of Non-Compliance Issued  
Action Date: 8/22/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:  
Chemical: DIESEL  
Quantity: 50 gallons  
Location Type: ROADWAY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**G29** NO LOCATION AID  
**NE** INTERSECTION OF RTE 53 AND 123  
**1/2-1** HANOVER, MA 02339  
**0.735 mi.**  
**3881 ft.** Site 2 of 2 in cluster G

**SHWS** S105596825  
**RELEASE** N/A

**Relative:**  
**Higher**  
**Actual:**  
**124 ft.**

**SHWS:**  
Name: NO LOCATION AID  
Address: INTERSECTION OF RTE 53 AND 123  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0017379  
Source Type: Not reported  
Release Town: HANOVER  
Notification Date: 09/25/2002  
Category: 120 DY  
Associated ID: Not reported  
Current Status: URAM  
Status Date: 09/25/2002  
Phase: Not reported  
Response Action Outcome: Not reported  
Oil Or Haz Material: Not reported

**Release:**  
Name: NO LOCATION AID  
Address: INTERSECTION OF RTE 53 AND 123  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0017379 / URAM  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 09/25/2002  
Category: 120 DY  
Status Date: 09/25/2002  
Phase: Not reported  
Response Action Outcome: -  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	9/25/2002
Response Action Outcome:	Not reported

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	9/25/2002
Response Action Outcome:	Not reported

Action Type:	Utility-related Abatement Measure
Action Status:	Notification of URAM Received
Action Date:	9/25/2002
Response Action Outcome:	Not reported

Action Type:	Utility-related Abatement Measure
Action Status:	Completion Statement Received
Action Date:	9/25/2002
Response Action Outcome:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NO LOCATION AID (Continued)

S105596825

Chemicals:  
Chemical: PETROLEUM HYDROCARBONS  
Quantity: Not reported

30  
NE  
1/2-1  
0.737 mi.  
3890 ft.

CONSTRUCTION SITE  
2053 WASHINGTON STREET  
HANOVER, MA 02339

SHWS S122951698  
LUST N/A  
RELEASE  
ASBESTOS

Relative:  
Higher  
Actual:  
121 ft.

SHWS:  
Name: CONSTRUCTION SITE  
Address: 2053 WASHINGTON STREET  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0027387  
Source Type: TANK  
Release Town: HANOVER  
Notification Date: 08/08/2018  
Category: TWO HR  
Associated ID: Not reported  
Current Status: PSNC  
Status Date: 08/02/2019  
Phase: Not reported  
Response Action Outcome: PN  
Oil Or Haz Material: Not reported

LUST:

Facility:  
Name: CONSTRUCTION SITE  
Address: 2053 WASHINGTON STREET  
City,State,Zip: HANOVER, MA 023390000  
**Current Status: Permanent Solution with No Conditions**  
Release Tracking Number/Current Status: 4-0027387 / PSNC  
Status Date: 08/02/2019  
Source Type: UST  
Release Town: HANOVER  
Notification Date: 08/08/2018  
Category: TWO HR  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil Or Haz Material: Not reported  
  
Location Type: COMMERCIAL  
Source: TANK  
Source: UST  
Source: USTOTHER

[Click here to access the MA DEP site for this facility:](#)

Chemicals:  
Chemical: Not reported  
Quantity: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSTRUCTION SITE (Continued)**

**S122951698**

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/13/2020  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 1/31/2019  
Response Action Outcome: PN

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 10/5/2018  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 10/5/2018  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 11/2/2018  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 3/11/2019  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Oral Approval of a Modified Plan  
Action Date: 8/13/2018  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 8/2/2019  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: PSNRCD  
Action Date: 8/2/2019  
Response Action Outcome: PN

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 8/23/2018  
Response Action Outcome: PN

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 8/24/2018  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSTRUCTION SITE (Continued)**

**S122951698**

Action Status: Fee Received - FMCRA Use Only  
Action Date: 8/5/2019  
Response Action Outcome: PN

Action Type: RLFA  
Action Status: FLDD1A  
Action Date: 8/8/2018  
Response Action Outcome: PN

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 8/8/2018  
Response Action Outcome: PN

Action Type: Immediate Response Action - DEP Lead  
Action Status: Oral Approval of Plan or Action  
Action Date: 8/8/2018  
Response Action Outcome: PN

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/18/2018  
Response Action Outcome: PN

Facility:

Name: CONSTRUCTION SITE  
Address: 2053 WASHINGTON STREET  
City, State, Zip: HANOVER, MA 023390000  
**Current Status: Permanent Solution with No Conditions**  
Release Tracking Number/Current Status: 4-0027387 / PSNC  
Status Date: 08/02/2019  
Source Type: USTOTHER  
Release Town: HANOVER  
Notification Date: 08/08/2018  
Category: TWO HR  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil Or Haz Material: Not reported

Location Type: COMMERCIAL  
Source: TANK  
Source: UST  
Source: USTOTHER

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: Not reported  
Quantity: Not reported

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSTRUCTION SITE (Continued)**

**S122951698**

Action Date:	1/13/2020
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	1/31/2019
Response Action Outcome:	PN
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	10/5/2018
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	10/5/2018
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	11/2/2018
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	3/11/2019
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Oral Approval of a Modified Plan
Action Date:	8/13/2018
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	8/2/2019
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	PSNRCD
Action Date:	8/2/2019
Response Action Outcome:	PN
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	8/23/2018
Response Action Outcome:	PN
Action Type:	BOL
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	8/24/2018
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	8/5/2019
Response Action Outcome:	PN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSTRUCTION SITE (Continued)**

**S122951698**

Action Type: RLFA  
Action Status: FLDD1A  
Action Date: 8/8/2018  
Response Action Outcome: PN

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 8/8/2018  
Response Action Outcome: PN

Action Type: Immediate Response Action - DEP Lead  
Action Status: Oral Approval of Plan or Action  
Action Date: 8/8/2018  
Response Action Outcome: PN

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/18/2018  
Response Action Outcome: PN

Release:  
Name: CONSTRUCTION SITE  
Address: 2053 WASHINGTON STREET  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0027387 / PSNC  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 08/08/2018  
Category: TWO HR  
Status Date: 08/02/2019  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/13/2020  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 1/31/2019  
Response Action Outcome: PN

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 10/5/2018  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 10/5/2018

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSTRUCTION SITE (Continued)**

**S122951698**

Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	11/2/2018
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	3/11/2019
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Oral Approval of a Modified Plan
Action Date:	8/13/2018
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	8/2/2019
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	PSNRCD
Action Date:	8/2/2019
Response Action Outcome:	PN
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	8/23/2018
Response Action Outcome:	PN
Action Type:	BOL
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	8/24/2018
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	8/5/2019
Response Action Outcome:	PN
Action Type:	RLFA
Action Status:	FLDD1A
Action Date:	8/8/2018
Response Action Outcome:	PN
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	8/8/2018
Response Action Outcome:	PN
Action Type:	Immediate Response Action - DEP Lead
Action Status:	Oral Approval of Plan or Action
Action Date:	8/8/2018
Response Action Outcome:	PN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSTRUCTION SITE (Continued)**

**S122951698**

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/18/2018  
Response Action Outcome: PN

Chemicals:  
Chemical: Not reported  
Quantity: Not reported  
Location Type: COMMERCIAL  
Source: TANK  
Source: UST  
Source: USTOTHER

ASBESTOS:  
Name: MERCHANT'S ROW  
Address: 2053 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 04/30/2018  
End Date: 05/31/2018  
Date Entered: Not reported  
Entry Date: 04/17/2018  
Quantity Material Removed SF: 20000.00  
Quantity Material Removed LF: 40.00  
Project Description: OTHER SEE BELOW  
AR Tracking ID: 291759  
Super Lic Number: AS072692  
Monitor Lic Number: Not reported  
Lab Lic Number: AA000202  
Year: 2018  
Sticker Number: 100284780  
Form Type: ANF-001  
Fee Status: HUNDRED  
Facility Phone: 7819821144  
Sub Town: Not reported  
Worksite: THROUGHOUT VARIOUS AREAS AND ROOFS  
Occupied: 0  
Contractor: AC000729  
Contract Type: WRITTEN  
Hours: 7AM-5:30PM  
Project Type: Dem  
Abatement Process: Glv,Fcontain, oth:SAFE WORK PRACTICES  
Location: INOUTDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT WITH SHOWER AND REMOTE DECONTAMINATION UNIT ADJACENT TO THE WORK AREA  
Disposal Methods: DOUBLE BAGGING IN 6-MIL LABELED BAGS, DRUMS AND BOXES MATERIALS UNDER OTHER: FLOOR TILE, ROOFING, PATCHING, FLASHING, FLOOR PAPER, JOINT COMPOUND/SHEETROCK, SLATE GLUE, DUCT MASTIC  
Facility Usage: FORMER SHOPPING PLAZA  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: AGORA MARKETPLACE, LLC

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CONSTRUCTION SITE (Continued)**

**S122951698**

Owner Address: 100 LEDGEWOOD PLACE  
 Owner City: ROCKLAND  
 Owner State: MA  
 On Site Manager Name: CHET BRAUN  
 On Site Manager Phone: 6177194167  
 Ins Comp: STATE NATIONAL INSURANCE CO.  
 Policy Number: NFA0824093  
 EXP Date: 3/29/2019  
 Facility Size: 50000  
 Transporter Name: RED TECHNOLOGIES, LLC  
 Transporter Address: 10 NORTHWOOD DRIVE  
 Transporter City: BLOOMFIELD  
 Transporter State: CT  
 Final Site: Not reported  
 Certified Name: CHARLES HUGHES  
 Cert Sign Date: 04/17/2018  
 Certified Company: UNITED SERVICE COMPANY, LLC  
 Certified Phone: 4133227192  
 Entered\_by: USCTMQ

**E31**  
**ENE**  
**1/2-1**  
**0.748 mi.**  
**3949 ft.**

**CUMBERLAND FARMS 6786**  
**1987 WASHINGTON ST**  
**HANOVER, MA 02339**  
**Site 2 of 2 in cluster E**

**SHWS S126408705**  
**AST N/A**  
**RELEASE**  
**ASBESTOS**  
**HW GEN**

**Relative:**  
**Higher**  
**Actual:**  
**116 ft.**

**SHWS:**  
 Name: CUMBERLAND FARMS  
 Address: 1987 WASHINGTON STREET  
 City,State,Zip: HANOVER, MA  
 Facility ID: 4-0029320  
 Source Type: BOAT  
 Release Town: HANOVER  
 Notification Date: 05/04/2022  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: PSNC  
 Status Date: 06/30/2022  
 Phase: Not reported  
 Response Action Outcome: PN  
 Oil Or Haz Material: Not reported

**AST:**  
 Facility ID: 620817  
 Name: CUMBERLAND FARMS 2542  
 Address: 1987 WASHINGTON ST  
 City,State,Zip: HANOVER, MA 02339-0000  
 Owner ID: Not reported  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner Zip: Not reported  
 Owner Name: CUMBERLAND FARMS INC  
 Tank Type: UST  
 Class: STG1  
 Stage I Type: Dual-Point  
 CARB # or System Type: Component EVR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS 6786 (Continued)**

**S126408705**

Test Cycle: Annual  
Date Form Mailed: 12/14/2022  
Test Date: Not reported  
Postmark Date: Not reported  
Due Date: 04/24/2023  
Product Type: Screw-on  
Vapor Type: Screw-on  
Form: FormC  
Form Rcvd and Complete: Not Received  
Description: Not reported  
Telephone: Not reported  
Fire Department: Not reported  
Date of Inspection: Not reported  
Inspector: Not reported  
Overfill Prevention: Not reported  
Tank ID: Not reported  
Serial Number: Not reported  
Spill Prevention: Not reported  
Tank Status: Not reported  
Capacity: Not reported  
Contents: Not reported  
Tank Use: Not reported  
Tank Material: Not reported  
Tank Construction: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Not reported  
Pipe Construction: Not reported  
Pipe Leak Detection: Not reported  
Aboveground: Not reported

Release:

Name: CUMBERLAND FARMS  
Address: 1987 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Release Tracking Number/Current Status: 4-0029320 / PSNC  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 05/04/2022  
Category: TWO HR  
Status Date: 06/30/2022  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 5/12/2022  
Response Action Outcome: PN

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 5/4/2022  
Response Action Outcome: PN



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS 6786 (Continued)**

**S126408705**

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 5/4/2022  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 5/4/2022  
Response Action Outcome: PN

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 6/30/2022  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: PSNRCD  
Action Date: 6/30/2022  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 7/21/2022  
Response Action Outcome: PN

Chemicals:  
Chemical: Not reported  
Quantity: Not reported  
Location Type: COMMERCIAL  
Source: BOAT

ASBESTOS:  
Name: FORMER FRIENDLYS  
Address: 1987 WASHINGTON ST  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 08/12/2020  
End Date: 08/21/2020  
Date Entered: Not reported  
Entry Date: 07/30/2020  
Quantity Material Removed SF: 2600  
Quantity Material Removed LF: Not reported  
Project Description: OTHER JC  
AR Tracking ID: 347505  
Super Lic Number: AS902444  
Monitor Lic Number: AM000146  
Lab Lic Number: AA000233  
Year: 2020  
Sticker Number: 100331541  
Form Type: ANF-001  
Fee Status: HUNDRED  
Facility Phone: 0000000000  
Sub Town: Not reported  
Worksite: ATTIC, FIRST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS 6786 (Continued)**

**S126408705**

Occupied: 0  
Contractor: AC000921  
Contract Type: WRITTEN  
Hours: 6AM -5PM  
Project Type: Dem  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: 3 CHAMBER WASH BUCKET  
Disposal Methods: 6 MILL DOUNLE BAG , BUNDLES  
Facility Usage: RESTERAUNT  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: HARLEQUIN HANOVER LLC  
Owner Address: 600LORING AVE  
Owner City: SALEM,  
Owner State: MA  
On Site Manager Name: NA  
On Site Manager Phone: 0000000000  
Ins Comp: ACE  
Policy Number: 65620B  
EXP Date: 5/7/2021  
Facility Size: 2800  
Transporter Name: AERO TEC ENVIRONMENTAL  
Transporter Address: 163 RICE AVE  
Transporter City: NORTHBOROUGH  
Transporter State: MA  
Final Site: Not reported  
Certified Name: GREG HARDING  
Cert Sign Date: 07/30/2020  
Certified Company: AERO TEC  
Certified Phone: 9783759534  
Entered\_by: LOWBLOW

HW GEN:  
Name: CUMBERLAND FARMS 6786  
Address: 1987 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAR000611707  
RCRA Generator Status: VSQG  
State Generator Status: VQG-MA

32  
North  
1/2-1  
0.752 mi.  
3973 ft.

**RESIDENTIAL STREET  
9 TYLER STREET  
NORWELL, MA**

**SHWS S126024910  
RELEASE N/A**

**Relative:  
Higher  
Actual:  
134 ft.**

SHWS:  
Name: RESIDENTIAL STREET  
Address: 9 TYLER STREET  
City,State,Zip: NORWELL, MA  
Facility ID: 4-0028019  
Source Type: TRANSFORM  
Release Town: NORWELL  
Notification Date: 10/17/2019

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENTIAL STREET (Continued)**

**S126024910**

Category: TWO HR  
Associated ID: Not reported  
Current Status: PSNC  
Status Date: 12/13/2019  
Phase: Not reported  
Response Action Outcome: PN  
Oil Or Haz Material: Not reported

Release:

Name: RESIDENTIAL STREET  
Address: 9 TYLER STREET  
City,State,Zip: NORWELL, MA  
Release Tracking Number/Current Status: 4-0028019 / PSNC  
Primary ID: Not reported  
Official City: NORWELL  
Notification: 10/17/2019  
Category: TWO HR  
Status Date: 12/13/2019  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 10/17/2019  
Response Action Outcome: PN

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 10/17/2019  
Response Action Outcome: PN

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 10/21/2019  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: PSNRCD  
Action Date: 12/13/2019  
Response Action Outcome: PN

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 12/13/2019  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 12/17/2019  
Response Action Outcome: PN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

RESIDENTIAL STREET (Continued)

S126024910

Chemicals:  
Chemical: Not reported  
Quantity: Not reported  
Location Type: RESIDENTIAL  
Source: TRANSFORM

33  
ENE  
1/2-1  
0.754 mi.  
3980 ft.

FORMER MIDAS MUFFLER  
1969 WASHINGTON STREET  
HANOVER, MA

SHWS S120630464  
LAST N/A  
RELEASE

Relative:  
Higher  
Actual:  
116 ft.

SHWS:  
Name: FORMER MIDAS MUFFLER  
Address: 1969 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Facility ID: 4-0026574  
Source Type: UNKNOWN  
Release Town: HANOVER  
Notification Date: 03/23/2017  
Category: 72 HR  
Associated ID: Not reported  
Current Status: PSNC  
Status Date: 03/23/2018  
Phase: Not reported  
Response Action Outcome: PN  
Oil Or Haz Material: Not reported

LAST:  
Name: FORMER MIDAS MUFFLER  
Address: 1969 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Release Tracking Number/Current Status: 4-0026574 / PSNC  
Source Type: AST  
Release Town: HANOVER  
Notification Date: 03/23/2017  
Category: 72 HR  
Associated ID: Not reported  
Status Date: 03/23/2018  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil Or Haz Material: Not reported

Chemicals:  
Chemical: Not reported  
Quantity: Not reported  
Location Type: COMMERCIAL  
Source: UNKNOWN  
Source: AST

Actions:  
Action Type: BOL  
Action Status: SHPFAC  
Action Date: 1/12/2018  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Completion Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER MIDAS MUFFLER (Continued)**

**S120630464**

Action Date:	1/30/2018
Response Action Outcome:	PN
Action Type:	BOL
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	12/8/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	IRA Assessment Only
Action Date:	3/23/2017
Response Action Outcome:	PN
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	3/23/2017
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	PSNRCD
Action Date:	3/23/2018
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	3/30/2018
Response Action Outcome:	PN
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	3/31/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	5/2/2018
Response Action Outcome:	PN
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	5/22/2017
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	5/22/2018
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	5/30/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	7/28/2017
Response Action Outcome:	PN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER MIDAS MUFFLER (Continued)**

**S120630464**

Action Type: Immediate Response Action  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 8/3/2017  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 8/3/2017  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 9/19/2017  
Response Action Outcome: PN

Release:

Name: FORMER MIDAS MUFFLER  
Address: 1969 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Release Tracking Number/Current Status: 4-0026574 / PSNC  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 03/23/2017  
Category: 72 HR  
Status Date: 03/23/2018  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: BOL  
Action Status: SHPFAC  
Action Date: 1/12/2018  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 1/30/2018  
Response Action Outcome: PN

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 12/8/2017  
Response Action Outcome: PN

Action Type: Immediate Response Action  
Action Status: IRA Assessment Only  
Action Date: 3/23/2017  
Response Action Outcome: PN

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 3/23/2017



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER MIDAS MUFFLER (Continued)**

**S120630464**

Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	PSNRCD
Action Date:	3/23/2018
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	3/30/2018
Response Action Outcome:	PN
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	3/31/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	5/2/2018
Response Action Outcome:	PN
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	5/22/2017
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	5/22/2018
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	5/30/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	7/28/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Modified Revised or Updated Plan Received
Action Date:	8/3/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	8/3/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	9/19/2017
Response Action Outcome:	PN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER MIDAS MUFFLER (Continued)**

**S120630464**

Chemicals:  
Chemical: Not reported  
Quantity: Not reported  
Location Type: COMMERCIAL  
Source: UNKNOWN  
Source: AST

**34**  
**ESE**  
**1/2-1**  
**0.754 mi.**  
**3980 ft.**

**MILL ST&WASHINGTON ST**  
**1376 WASHINGTON ST**  
**HANOVER, MA 02339**

**SHWS** **S103812624**  
**RELEASE** **N/A**  
**HW GEN**

**Relative:**  
**Lower**  
**Actual:**  
**109 ft.**

SHWS:  
Name: MILL ST&WASHINGTON ST  
Address: 1376 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0014541  
Source Type: Not reported  
Release Town: HANOVER  
Notification Date: 02/09/1999  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 02/09/1999  
Phase: Not reported  
Response Action Outcome: B1  
Oil Or Haz Material: Hazardous Material

Release:  
Name: MILL ST&WASHINGTON ST  
Address: 1376 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0014541 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 02/09/1999  
Category: 120 DY  
Status Date: 02/09/1999  
Phase: Not reported  
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.  
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:  
Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/3/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.  
  
Action Type: Response Action Outcome - RAO  
Action Status: Fee Not Required - Fee Refunded-FMCRA Use Only  
Action Date: 2/17/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILL ST&WASHINGTON ST (Continued)**

**S103812624**

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 2/9/1999

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 2/9/1999  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 2/9/1999  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemicals:  
Chemical: 1,1-DICHLOROETHYLENE  
Quantity: 2 parts per billion

HW GEN:  
Name: OREILLY AUTO PARTS 4804  
Address: 1376 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAC300097565  
RCRA Generator Status: SQG  
State Generator Status: Not reported  
  
Name: DEPENDABLE LAUNDERERS & CLEANERS  
Address: 1376 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAD981215304  
RCRA Generator Status: Not reported  
State Generator Status: VQG-MA

35  
NNE  
1/2-1  
0.759 mi.  
4010 ft.

**BOSTON WHALER INC  
412 WASHINGTON ST.  
NORWELL, MA 02061**

**SHWS 1000416032  
SPILLS MAD065156622  
RELEASE  
RCRA NonGen / NLR  
FINDS  
ECHO**

Relative:  
Higher  
Actual:  
131 ft.

SHWS:  
Name: BOSTON WHALER INC  
Address: 412 WASHINGTON ST  
City,State,Zip: NORWELL, MA 02061  
Facility ID: 4-0000402  
Source Type: Not reported  
Release Town: NORWELL  
Notification Date: 10/15/1987  
Category: NONE  
Associated ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOSTON WHALER INC (Continued)**

**1000416032**

Current Status: RAO  
Status Date: 03/14/1997  
Phase: Not reported  
Response Action Outcome: B1  
Oil Or Haz Material: Not reported

MA Spills:

Facility ID:	0000	Spill ID:	S90-0140
Staff Lead:	PACKARD, R	Date Entered:	Not reported
Last Entered:	19900918	First Response:	19900306
Spill Date:	19900306	Spill Time:	12:00PM
Report Date:	19900306	Report Time:	12:14PM
Case Closed:	YES	Mat Type:	HAZARDOUS
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	OTHER MATERIAL -->	Other Material:	MEK PEROXIDE
Qty Reported:	1-10	Qty Actual:	UNKNOWN
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	DRUM	Other Source:	Not reported
Incident:	OTHER RELEASE >	Other Incdnt:	EXPLOSION
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	CAPT REARDON/FD		
Notif Tel:	Not reported		
Days/Close:	1		

Release:

Name: BOSTON WHALER INC  
Address: 412 WASHINGTON ST  
City,State,Zip: NORWELL, MA 02061  
Release Tracking Number/Current Status: 4-0000402 / RAO  
Primary ID: Not reported  
Official City: NORWELL  
Notification: 10/15/1987  
Category: NONE  
Status Date: 03/14/1997  
Phase: Not reported  
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.  
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	10/15/1987
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	3/14/1997
Response Action Outcome:	Remedial actions have not been conducted because a level of No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOSTON WHALER INC (Continued)**

**1000416032**

Significant Risk exists.

Action Type: RLFA  
Action Status: FLDRUN  
Action Date: 5/28/2015  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Compliance and Enforcement Action  
Action Status: Notice of Non-Compliance Issued  
Action Date: 6/25/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemicals:  
Chemical: UNKNOWN  
Quantity: Not reported

RCRA Listings:  
Date Form Received by Agency: 19801006  
Handler Name: Boston Whaler Inc  
Handler Address: 412 WASHINGTON ST  
Handler City,State,Zip: NORWELL, MA 02061  
EPA ID: MAD065156622  
Contact Name: ROLAND MEHTALA  
Contact Address: 412 WASHINGTON ST  
Contact City,State,Zip: NORWELL, MA 02061  
Contact Telephone: 617-871-1400  
Contact Fax: Not reported  
Contact Email: Not reported  
Contact Title: Not reported  
EPA Region: 01  
Land Type: Private  
Federal Waste Generator Description: Not a generator, verified  
Non-Notifier: Not reported  
Biennial Report Cycle: Not reported  
Accessibility: Not reported  
Active Site Indicator: Not reported  
State District Owner: Ma  
State District: S  
Mailing Address: 412 WASHINGTON ST  
Mailing City,State,Zip: NORWELL, MA 02061  
Owner Name: Not reported  
Owner Type: Not reported  
Operator Name: Boston Whaler Inc  
Operator Type: Private  
Short-Term Generator Activity: No  
Importer Activity: No  
Mixed Waste Generator: No  
Transporter Activity: No  
Transfer Facility Activity: No  
Recycler Activity with Storage: No  
Small Quantity On-Site Burner Exemption: No  
Smelting Melting and Refining Furnace Exemption: No  
Underground Injection Control: No  
Off-Site Waste Receipt: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BOSTON WHALER INC (Continued)**

**1000416032**

Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
202 GPRC Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20171020
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

**Hazardous Waste Summary:**

Waste Code:	F005
Waste Description:	The Following Spent Nonhalogenated Solvents: Toluene, Methyl Ethyl Ketone, Carbon Disulfide, Isobutanol, Pyridine, Benzene, 2-Ethoxyethanol, And 2-Nitropropane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Nonhalogenated Solvents Or Those Solvents Listed In F001, F002, Or F004; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.
Waste Code:	U154
Waste Description:	Methanol (l) (Or) Methyl Alcohol (l)
Waste Code:	U159
Waste Description:	2-Butanone (l,T) (Or) Methyl Ethyl Ketone (Mek) (l,T)
Waste Code:	U160
Waste Description:	2-Butanone, Peroxide (R,T) (Or) Methyl Ethyl Ketone Peroxide (R,T)
Waste Code:	U238
Waste Description:	Carbamic Acid, Ethyl Ester (Or) Ethyl Carbamate (Urethane)

**Handler - Owner Operator:**

Owner/Operator Indicator:	Operator
---------------------------	----------

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOSTON WHALER INC (Continued)**

**1000416032**

Owner/Operator Name: BOSTON WHALER INC  
Legal Status: Private  
Date Became Current: 19900301  
Date Ended Current: 19910603  
Owner/Operator Address: 412 WASHINGTON ST  
Owner/Operator City,State,Zip: NORWELL, MA 02061  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19801006  
Handler Name: BOSTON WHALER INC  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Ma  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 336612  
NAICS Description: BOAT BUILDING

Has the Facility Received Notices of Violations:

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: Generators - General  
Date Violation was Determined: 19851008  
Actual Return to Compliance Date: 19860114  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: 19851227  
Enforcement Identifier: 002  
Date of Enforcement Action: 19851227  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement Responsible Person: Not reported  
Enforcement Responsible Sub-Organization: SE  
SEP Sequence Number: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOSTON WHALER INC (Continued)**

**1000416032**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19851008
Actual Return to Compliance Date:	19860114
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19860110
Enforcement Identifier:	002
Date of Enforcement Action:	19851227
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	SE
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19851008
Actual Return to Compliance Date:	19860114
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOSTON WHALER INC (Continued)**

**1000416032**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	19851030
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	SE
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BOSTON WHALER INC (Continued)**

**1000416032**

SEP Expenditure Amount: Not reported  
 SEP Scheduled Completion Date: Not reported  
 SEP Actual Date: Not reported  
 SEP Defaulted Date: Not reported  
 SEP Type: Not reported  
 SEP Type Description: Not reported  
 Proposed Amount: Not reported  
 Final Monetary Amount: Not reported  
 Paid Amount: Not reported  
 Final Count: Not reported  
 Final Amount: Not reported

Found Violation: No  
 Agency Which Determined Violation: Not reported  
 Violation Short Description: Not reported  
 Date Violation was Determined: Not reported  
 Actual Return to Compliance Date: Not reported  
 Return to Compliance Qualifier: Not reported  
 Violation Responsible Agency: Not reported  
 Scheduled Compliance Date: Not reported  
 Enforcement Identifier: Not reported  
 Date of Enforcement Action: Not reported  
 Enforcement Responsible Agency: Not reported  
 Enforcement Docket Number: Not reported  
 Enforcement Attorney: Not reported  
 Corrective Action Component: Not reported  
 Appeal Initiated Date: Not reported  
 Appeal Resolution Date: Not reported  
 Disposition Status Date: Not reported  
 Disposition Status: Not reported  
 Disposition Status Description: Not reported  
 Consent/Final Order Sequence Number: Not reported  
 Consent/Final Order Respondent Name: Not reported  
 Consent/Final Order Lead Agency: Not reported  
 Enforcement Type: Not reported  
 Enforcement Responsible Person: Not reported  
 Enforcement Responsible Sub-Organization: Not reported  
 SEP Sequence Number: Not reported  
 SEP Expenditure Amount: Not reported  
 SEP Scheduled Completion Date: Not reported  
 SEP Actual Date: Not reported  
 SEP Defaulted Date: Not reported  
 SEP Type: Not reported  
 SEP Type Description: Not reported  
 Proposed Amount: Not reported  
 Final Monetary Amount: Not reported  
 Paid Amount: Not reported  
 Final Count: Not reported  
 Final Amount: Not reported

Found Violation: Yes  
 Agency Which Determined Violation: State  
 Violation Short Description: Generators - General  
 Date Violation was Determined: 19850529  
 Actual Return to Compliance Date: 19900706  
 Return to Compliance Qualifier: Unverifiable  
 Violation Responsible Agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOSTON WHALER INC (Continued)**

**1000416032**

Scheduled Compliance Date: 19850629  
Enforcement Identifier: 001  
Date of Enforcement Action: 19850529  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: WRITTEN INFORMAL  
Enforcement Responsible Person: Not reported  
Enforcement Responsible Sub-Organization: SE  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Evaluation Action Summary:

Evaluation Date: 19851008  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: Not reported  
Evaluation Responsible Sub-Organization: SE  
Actual Return to Compliance Date: 19860114  
Scheduled Compliance Date: 19851227  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19851008  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: Not reported  
Evaluation Responsible Sub-Organization: SE  
Actual Return to Compliance Date: 19860114  
Scheduled Compliance Date: 19860110  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOSTON WHALER INC (Continued)**

**1000416032**

Evaluation Date: 19851008  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: Not reported  
Evaluation Responsible Sub-Organization: SE  
Actual Return to Compliance Date: 19860114  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19860114  
Evaluation Responsible Agency: State  
Found Violation: No  
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION  
Evaluation Responsible Person Identifier: Not reported  
Evaluation Responsible Sub-Organization: SE  
Actual Return to Compliance Date: Not reported  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19900706  
Evaluation Responsible Agency: State  
Found Violation: No  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: EJMA  
Evaluation Responsible Sub-Organization: SE  
Actual Return to Compliance Date: Not reported  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 19850529  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW  
Evaluation Responsible Person Identifier: Not reported  
Evaluation Responsible Sub-Organization: SE  
Actual Return to Compliance Date: 19900706  
Scheduled Compliance Date: 19850629  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

**FINDS:**

Registry ID: 110001949134

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOSTON WHALER INC (Continued)**

**1000416032**

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The Toxic Release Inventory System (TRIS) is a publicly available EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities.

The Massachusetts - Environmental Protection Integrated Computer System (MA-EPICS) is the central repository for all environmental protection data for the State of Massachusetts.

The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000416032  
Registry ID: 110001949134  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110001949134>  
Name: BOSTON WHALER INC  
Address: 412 WASHINGTON ST.  
City,State,Zip: NORWELL, MA 02061

36  
NW  
1/2-1  
0.760 mi.  
4012 ft.

**NO LOCATION AID  
249 HIGH ST  
NORWELL, MA 02061**

**SHWS S106344124  
LAST N/A  
RELEASE**

Relative:  
Higher

SHWS:

Actual:  
135 ft.

Name: NO LOCATION AID  
Address: 249 HIGH ST  
City,State,Zip: NORWELL, MA 020610000  
Facility ID: 4-0018239  
Source Type: PIPE  
Release Town: NORWELL  
Notification Date: 01/22/2004  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 10/28/2009  
Phase: PHASE IV  
Response Action Outcome: A2  
Oil Or Haz Material: Oil

LAST:

Name: NO LOCATION AID  
Address: 249 HIGH ST  
City,State,Zip: NORWELL, MA 020610000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106344124**

Release Tracking Number/Current Status: 4-0018239 / RAO  
Source Type: AST  
Release Town: NORWELL  
Notification Date: 01/22/2004  
Category: TWO HR  
Associated ID: Not reported  
Status Date: 10/28/2009  
Phase: PHASE IV  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Oil Or Haz Material: Oil

Chemicals:

Chemical: #2 FUEL OIL  
Quantity: 100 gallons  
Location Type: INDUSTRIAL  
Source: AST  
Source: PIPE

Actions:

Action Type: Phase 2  
Action Status: Scope of Work Received  
Action Date: 1/20/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: Tier 1C Classification  
Action Date: 1/20/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 1/20/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1  
Action Status: Completion Statement Received  
Action Date: 1/20/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 1/22/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/22/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: FLDISS



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106344124**

Action Date: 1/22/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 10/28/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 4  
Action Status: Completion Statement Received  
Action Date: 10/28/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 11/22/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 11/27/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 11/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 11/3/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 12/22/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3  
Action Status: Notice of Delay in Meeting RA Deadline Received  
Action Date: 12/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Notice of Delay in Meeting RA Deadline Received  
Action Date: 12/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106344124**

Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	2/12/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 4
Action Status:	Modified Revised or Updated Plan Received
Action Date:	2/18/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 3
Action Status:	Revised Statement or Transmittal Received
Action Date:	2/18/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	2/3/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Permit Effective Date
Action Date:	3/13/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued
Action Date:	5/13/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	5/24/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	5/25/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	6/1/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	6/10/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106344124**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 6/10/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 6/10/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Completion Statement Received  
Action Date: 8/31/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 4  
Action Status: Written Plan Received  
Action Date: 8/31/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3  
Action Status: Completion Statement Received  
Action Date: 8/31/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BWS03  
Action Status: APPROV  
Action Date: Not reported  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Name: NO LOCATION AID  
Address: 249 HIGH ST  
City,State,Zip: NORWELL, MA 020610000  
Release Tracking Number/Current Status: 4-0018239 / RAO  
Primary ID: Not reported  
Official City: NORWELL  
Notification: 01/22/2004  
Category: TWO HR  
Status Date: 10/28/2009  
Phase: PHASE IV  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106344124**

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: Phase 2  
Action Status: Scope of Work Received  
Action Date: 1/20/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: Tier 1C Classification  
Action Date: 1/20/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 1/20/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1  
Action Status: Completion Statement Received  
Action Date: 1/20/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 1/22/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/22/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: FLDISS  
Action Date: 1/22/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 10/28/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 4  
Action Status: Completion Statement Received  
Action Date: 10/28/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106344124**

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 11/22/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 11/27/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 11/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 11/3/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 12/22/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3  
Action Status: Notice of Delay in Meeting RA Deadline Received  
Action Date: 12/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2  
Action Status: Notice of Delay in Meeting RA Deadline Received  
Action Date: 12/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 2/12/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 4  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 2/18/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3  
Action Status: Revised Statement or Transmittal Received  
Action Date: 2/18/2009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106344124**

Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	2/3/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Permit Effective Date
Action Date:	3/13/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued
Action Date:	5/13/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	5/24/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	5/25/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	6/1/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	6/10/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	6/10/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	6/10/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106344124**

Action Type: Phase 2  
Action Status: Completion Statement Received  
Action Date: 8/31/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 4  
Action Status: Written Plan Received  
Action Date: 8/31/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3  
Action Status: Completion Statement Received  
Action Date: 8/31/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BWS03  
Action Status: APPROV  
Action Date: Not reported  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: #2 FUEL OIL  
Quantity: 100 gallons  
Location Type: INDUSTRIAL  
Source: AST  
Source: PIPE

37  
NE  
1/2-1  
0.778 mi.  
4110 ft.

**ROUTE 53 & ROUTE123  
2117 WASHINGTON ST  
HANOVER, MA 02339**

**SHWS S102088011  
INST CONTROL N/A  
RELEASE  
UIC**

**Relative:  
Higher  
Actual:  
122 ft.**

SHWS:  
Name: ROUTE 53 & ROUTE123  
Address: 2117 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
Facility ID: 4-0010487  
Source Type: Not reported  
Release Town: HANOVER  
Notification Date: 05/11/1994  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 06/26/1996  
Phase: Not reported  
Response Action Outcome: A3  
Oil Or Haz Material: Hazardous Material

INST CONTROL:  
Name: ROUTE 53 & ROUTE123  
Address: 2117 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROUTE 53 & ROUTE123 (Continued)**

**S102088011**

Release Tracking Number: 4-0010487  
Action Type: AUL  
Action Stat: ACTAUD  
Action Date: 05/31/2001  
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Name: ROUTE 53 & ROUTE123  
Address: 2117 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
Release Tracking Number: 4-0010487  
Action Type: AUL  
Action Stat: ACTAUD  
Action Date: 07/26/2001  
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Name: ROUTE 53 & ROUTE123  
Address: 2117 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
Release Tracking Number: 4-0010487  
Action Type: AUL  
Action Stat: SNAUDI  
Action Date: 03/01/2000  
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Name: ROUTE 53 & ROUTE123  
Address: 2117 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
Release Tracking Number: 4-0010487  
Action Type: AUL  
Action Stat: SNAUDI  
Action Date: 11/12/2008  
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:  
Name: ROUTE 53 & ROUTE123  
Address: 2117 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
Release Tracking Number/Current Status: 4-0010487 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 05/11/1994  
Category: 120 DY  
Status Date: 06/26/1996  
Phase: Not reported  
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.  
  
Oil / Haz Material Type: Hazardous Material

MAP FINDINGS

**ROUTE 53 & ROUTE123 (Continued)**

**S102088011**

Click here to access the MA DEP site for this facility:

**Actions:**

Action Type: RLFA  
 Action Status: FLDRUN  
 Action Date: 10/1/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit  
 Action Status: NAFNVD  
 Action Date: 11/12/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
 Action Status: Level II - Audit Inspection  
 Action Date: 11/12/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
 Action Status: Level II - Audit Inspection  
 Action Date: 3/1/2000  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
 Action Status: Written Plan Received  
 Action Date: 3/6/1996  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 5/11/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 5/11/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 1  
 Action Status: Completion Statement Received  
 Action Date: 5/11/1995  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROUTE 53 & ROUTE123 (Continued)**

**S102088011**

been implemented.

Action Type: Tier Classification  
Action Status: Tier 2 Classification  
Action Date: 5/11/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 5/11/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Status: Level III - Comprehensive Audit  
Action Date: 5/31/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit  
Action Status: NOA  
Action Date: 5/31/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO  
Action Status: Level III - Comprehensive Audit  
Action Date: 5/31/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 6/24/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 6/26/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 6/26/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROUTE 53 & ROUTE123 (Continued)**

**S102088011**

Action Type: An activity type that is related to an Audit  
Action Status: NAFNVD  
Action Date: 7/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit  
Action Status: FOLCD  
Action Date: 7/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO  
Action Status: Level III - Comprehensive Audit  
Action Date: 7/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Status: Level III - Comprehensive Audit  
Action Date: 7/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit  
Action Status: NOA  
Action Date: 8/12/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
Action Date: 8/15/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemicals:  
Chemical: BENZENE, DIMETHYL  
Quantity: 12100 micrograms per liter  
Chemical: XYLENE  
Quantity: 570 milligrams per kilogram

UIC:  
RTN Number: Not reported  
Name: EXXON RAS#38970  
Address: 2117 WASHINGTON STREET  
City,State,Zip: HANOVER, MA 02149  
Permit Date: Not reported  
Actor Name: Not reported  
Air Sparging: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ROUTE 53 & ROUTE123 (Continued)**

**S102088011**

Injection Well:	Not reported
Reinjection Well:	Not reported
UIC APL Type:	WS-06d
Latitude:	Not reported
Well Status:	Not reported
Longitude:	Not reported
UIC ID:	Not reported
EPA Code:	Not reported
Indicates Area:	Not reported
Number of Wells:	Not reported
Owner:	CHARLES BECK VON PECCOZ
Receive Date:	Not reported
Authorization to Install/Close Date:	Not reported
Confirmation of Install Receive:	Not reported
Post-Closure Receive:	09/16/1994
Final Approval Date:	Not reported
Permit Number:	Not reported
Permit Type:	Not reported
Permit Type Description:	Not reported
Program:	Not reported
Applicant Name:	Not reported
Decision Date:	Not reported
Operator Name:	Not reported
Well ID:	Not reported
Well Type Name:	Not reported
Max Well Depth:	Not reported
Date Complete:	Not reported
Work Performed:	Not reported
Depth to Bedrock:	Not reported
Water Level:	Not reported

**H38  
 NE  
 1/2-1  
 0.784 mi.  
 4142 ft.**

**NO LOCATION AID  
 515 WASHINGTON ST  
 NORWELL, MA 02061  
 Site 1 of 2 in cluster H**

**SHWS  
 INST CONTROL  
 RELEASE**

**S109489609  
 N/A**

**Relative:  
 Higher  
 Actual:  
 126 ft.**

SHWS:	
Name:	NO LOCATION AID
Address:	515 WASHINGTON ST
City,State,Zip:	NORWELL, MA 020610000
Facility ID:	4-0021668
Source Type:	Not reported
Release Town:	NORWELL
Notification Date:	11/13/2008
Category:	120 DY
Associated ID:	Not reported
Current Status:	DPS
Status Date:	11/13/2008
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Hazardous Material

INST CONTROL:	
Name:	NO LOCATION AID
Address:	515 WASHINGTON ST
City,State,Zip:	NORWELL, MA 020610000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S109489609**

Release Tracking Number: 4-0021668  
Action Type: AUL  
Action Stat: FEEREC  
Action Date: 01/22/2015  
Response Action Outcome: -

Name: NO LOCATION AID  
Address: 515 WASHINGTON ST  
City,State,Zip: NORWELL, MA 020610000  
Release Tracking Number: 4-0021668  
Action Type: AUL  
Action Stat: RECPT  
Action Date: 01/12/2015  
Response Action Outcome: -

Name: NO LOCATION AID  
Address: 515 WASHINGTON ST  
City,State,Zip: NORWELL, MA 020610000  
Release Tracking Number: 4-0021668  
Action Type: AUL  
Action Stat: TSAUD  
Action Date: 08/24/2015  
Response Action Outcome: -

Release:

Name: NO LOCATION AID  
Address: 515 WASHINGTON ST  
City,State,Zip: NORWELL, MA 020610000  
Release Tracking Number/Current Status: 4-0021668 / DPS  
Primary ID: Not reported  
Official City: NORWELL  
Notification: 11/13/2008  
Category: 120 DY  
Status Date: 11/13/2008  
Phase: Not reported  
Response Action Outcome: -  
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

Action Type: Activity and Use Limitation  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 1/12/2015  
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 1/22/2015  
Response Action Outcome: Not reported

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 11/13/2008  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S109489609**

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 11/13/2008  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 11/13/2008  
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation  
Action Status: Level I - Technical Screen Audit  
Action Date: 8/24/2015  
Response Action Outcome: Not reported

Chemicals:  
Chemical: TRICHLOROETHENE  
Quantity: 50 micrograms per liter  
Chemical: TETRACHLORETHENE (PCE)  
Quantity: 390 micrograms per liter  
Chemical: CIS-1,3-DICHLOROPROPENE  
Quantity: 170 micrograms per liter

**39**  
**North**  
**1/2-1**  
**0.788 mi.**  
**4161 ft.**

**GARDEN CTR**  
**376 WASHINGTON ST**  
**NORWELL, MA 02061**

**SHWS S103812451**  
**RELEASE N/A**

**Relative:**  
**Higher**  
**Actual:**  
**130 ft.**

SHWS:  
Name: GARDEN CTR  
Address: 376 WASHINGTON ST  
City,State,Zip: NORWELL, MA 020610000  
Facility ID: 4-0012405  
Source Type: TOWTRUCK  
Release Town: NORWELL  
Notification Date: 08/11/1996  
Category: TWO HR  
Associated ID: Not reported  
Current Status: DEPNFA  
Status Date: 08/26/2008  
Phase: Not reported  
Response Action Outcome: Not reported  
Oil Or Haz Material: Oil

Release:  
Name: GARDEN CTR  
Address: 376 WASHINGTON ST  
City,State,Zip: NORWELL, MA 020610000  
Release Tracking Number/Current Status: 4-0012405 / DEPNFA  
Primary ID: Not reported  
Official City: NORWELL  
Notification: 08/11/1996  
Category: TWO HR  
Status Date: 08/26/2008  
Phase: Not reported  
Response Action Outcome: -



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GARDEN CTR (Continued)**

**S103812451**

Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 8/10/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 8/11/1996  
Response Action Outcome: Not reported

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 8/11/1996  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 8/12/1996  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Status: FLDRAN  
Action Date: 8/12/1996  
Response Action Outcome: Not reported

Action Type: RAO Not Required  
Action Status: DEPNFA  
Action Date: 8/26/2008  
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 8/28/1996  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Written Approval of Plan  
Action Date: 8/28/1996  
Response Action Outcome: Not reported

Chemicals:

Chemical: DIESEL FUEL  
Quantity: 10 gallons  
Source: TOWTRUCK

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**H40**      **NORWELL CLEANERS**  
**NNE**      **507 WASHINGTON ST**  
**1/2-1**     **NORWELL, MA 02061**  
**0.788 mi.**  
**4163 ft.**    **Site 2 of 2 in cluster H**

**SHWS**    **S107678269**  
**INST CONTROL**  
**RELEASE**    **N/A**

**Relative:**  
**Higher**  
**Actual:**  
**133 ft.**

**SHWS:**  
Name: NORWELL CLEANERS  
Address: 507 WASHINGTON ST  
City,State,Zip: NORWELL, MA 020610000  
Facility ID: 4-0019682  
Source Type: Not reported  
Release Town: NORWELL  
Notification Date: 03/22/2006  
Category: 120 DY  
Associated ID: 4-0019682  
Current Status: TIERII  
Status Date: 03/28/2007  
Phase: PHASE II  
Response Action Outcome: Not reported  
Oil Or Haz Material: Hazardous Material

Name: NORWELL CLEANERS  
Address: 507 WASHINGTON ST  
City,State,Zip: NORWELL, MA  
Facility ID: 4-0021297  
Source Type: Not reported  
Release Town: NORWELL  
Notification Date: 06/06/2008  
Category: 72 HR  
Associated ID: Not reported  
Current Status: RAONR  
Status Date: 05/07/2014  
Phase: Not reported  
Response Action Outcome: Not reported  
Oil Or Haz Material: Hazardous Material

**INST CONTROL:**

Name: NORWELL CLEANERS  
Address: 507 WASHINGTON ST  
City,State,Zip: NORWELL, MA 020610000  
Release Tracking Number: 4-0019682  
Action Type: AUL  
Action Stat: FEEREC  
Action Date: 01/22/2015  
Response Action Outcome: -

Name: NORWELL CLEANERS  
Address: 507 WASHINGTON ST  
City,State,Zip: NORWELL, MA 020610000  
Release Tracking Number: 4-0019682  
Action Type: AUL  
Action Stat: RECPT  
Action Date: 01/12/2015  
Response Action Outcome: -

Name: NORWELL CLEANERS  
Address: 507 WASHINGTON ST  
City,State,Zip: NORWELL, MA 020610000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORWELL CLEANERS (Continued)**

**S107678269**

Release Tracking Number: 4-0019682  
Action Type: AUL  
Action Stat: TSAUD  
Action Date: 08/24/2015  
Response Action Outcome: -

Release:

Name: NORWELL CLEANERS  
Address: 507 WASHINGTON ST  
City,State,Zip: NORWELL, MA 020610000  
Release Tracking Number/Current Status: 4-0019682 / TIERII  
Primary ID: 4-0019682  
Official City: NORWELL  
Notification: 03/22/2006  
Category: 120 DY  
Status Date: 03/28/2007  
Phase: PHASE II  
Response Action Outcome: -  
Oil / Haz Material Type: Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Activity and Use Limitation  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 1/12/2015  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/2/2007  
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 1/22/2015  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: TCEXT  
Action Date: 1/29/2015  
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action  
Action Status: Notice of Enforcement Conference  
Action Date: 10/11/2012  
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued  
Action Date: 11/19/2014  
Response Action Outcome: Not reported

Action Type: Phase 2  
Action Status: Status or Interim Report Received  
Action Date: 11/22/2013

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORWELL CLEANERS (Continued)**

**S107678269**

Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	11/30/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	12/26/2006
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	12/27/2007
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	ACOP
Action Date:	12/5/2014
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	2/3/2016
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Enforcement Conference
Action Date:	2/3/2016
Response Action Outcome:	Not reported
Action Type:	Partial RAO for this RTN
Action Status:	PSARCD
Action Date:	3/10/2015
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	3/22/2006
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	3/22/2006
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	3/24/2008
Response Action Outcome:	Not reported
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	3/28/2007
Response Action Outcome:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORWELL CLEANERS (Continued)**

**S107678269**

Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	3/28/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	3/28/2007
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	3/31/2015
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	3/31/2015
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Level I - Technical Screen Audit
Action Date:	4/11/2007
Response Action Outcome:	Not reported
Action Type:	Phase 1
Action Status:	Level I - Technical Screen Audit
Action Date:	4/11/2007
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	4/3/2009
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	4/3/2009
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued
Action Date:	4/4/2012
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	5/18/2006
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	5/7/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORWELL CLEANERS (Continued)**

**S107678269**

Action Date:	5/7/2014
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	5/8/2007
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Unilateral Order Issued
Action Date:	6/14/2016
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	6/21/2012
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	DEMAND
Action Date:	6/6/2016
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	7/22/2014
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Enforcement Conference
Action Date:	7/22/2014
Response Action Outcome:	Not reported
Action Type:	Activity and Use Limitation
Action Status:	Level I - Technical Screen Audit
Action Date:	8/24/2015
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	9/18/2014
Response Action Outcome:	Not reported
Action Type:	Phase 4
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	9/18/2014
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	9/18/2014
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	9/18/2014
Response Action Outcome:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORWELL CLEANERS (Continued)**

**S107678269**

Chemicals:

Chemical: TETRACHLOROETHENE  
Quantity: 830 parts per million  
Chemical: TETRACHLOROETHYLENE  
Quantity: 66000 parts per billion  
Chemical: VINYL CHLORIDE  
Quantity: 6.6 parts per billion

Name: NORWELL CLEANERS  
Address: 507 WASHINGTON ST  
City,State,Zip: NORWELL, MA  
Release Tracking Number/Current Status: 4-0021297 / RAONR  
Primary ID: Not reported  
Official City: NORWELL  
Notification: 06/06/2008  
Category: 72 HR  
Status Date: 05/07/2014  
Phase: Not reported  
Response Action Outcome: -  
Oil / Haz Material Type: Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Tier Classification  
Action Status: TCEXT  
Action Date: 1/29/2015  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 11/17/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 3/28/2007  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Tier 2 Classification  
Action Date: 3/28/2007  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Level I - Technical Screen Audit  
Action Date: 4/11/2007  
Response Action Outcome: Not reported

Action Type: RAO Not Required  
Action Status: Linked to a Tier Classified Site  
Action Date: 5/7/2014  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: RTN Linked to TCLASS Via IRA Completion Statement



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORWELL CLEANERS (Continued)**

**S107678269**

Action Date: 5/7/2014  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 5/7/2014  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 6/10/2008  
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 6/18/2008  
Response Action Outcome: Not reported

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 6/6/2008  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 6/6/2008  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 7/9/2008  
Response Action Outcome: Not reported

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 7/9/2008  
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action  
Action Status: Notice of Non-Compliance Issued  
Action Date: 8/27/2009  
Response Action Outcome: Not reported

Chemicals:

Chemical: PCE  
Quantity: 390 parts per billion  
Chemical: PCE  
Quantity: 7.7 UG/M3  
Location Type: COMMERCIAL  
Location Type: SCHOOL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)  
EDR ID Number  
EPA ID Number

41  
NW  
1/2-1  
0.858 mi.  
4528 ft.

**FOXROCK LONGWATER II REALTY LLC**  
**141 LONGWATER DR**  
**NORWELL, MA 02061**

**SHWS S108858798**  
**RELEASE N/A**  
**HW GEN**

**Relative:**  
**Higher**  
**Actual:**  
**137 ft.**

**SHWS:**  
Name: ARAMARK WEARGURARD  
Address: 141 LONGWATER DR  
City,State,Zip: NORWELL, MA  
Facility ID: 4-0020718  
Source Type: HOSE  
Release Town: NORWELL  
Notification Date: 08/20/2007  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 10/19/2007  
Phase: Not reported  
Response Action Outcome: A1  
Oil Or Haz Material: Not reported

Name: INDUSTRIAL PARK  
Address: 141 LONGWATER DRIVE  
City,State,Zip: NORWELL, MA  
Facility ID: 4-0024063  
Source Type: Not reported  
Release Town: NORWELL  
Notification Date: 07/17/2012  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 09/17/2012  
Phase: Not reported  
Response Action Outcome: A1  
Oil Or Haz Material: Oil

**Release:**  
Name: ARAMARK WEARGURARD  
Address: 141 LONGWATER DR  
City,State,Zip: NORWELL, MA  
Release Tracking Number/Current Status: 4-0020718 / RAO  
Primary ID: Not reported  
Official City: NORWELL  
Notification: 08/20/2007  
Category: TWO HR  
Status Date: 10/19/2007  
Phase: Not reported  
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

**Actions:**  
Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 10/19/2007

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOXROCK LONGWATER II REALTY LLC (Continued)**

**S108858798**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FLDRUN  
Action Date: 10/22/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 11/14/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 8/20/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 8/20/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:  
Chemical: HYDRAULIC OIL  
Quantity: 15 gallons  
Location Type: INDUSTRIAL  
Source: HOSE

Name: INDUSTRIAL PARK  
Address: 141 LONGWATER DRIVE  
City,State,Zip: NORWELL, MA  
Release Tracking Number/Current Status: 4-0024063 / RAO  
Primary ID: Not reported  
Official City: NORWELL  
Notification: 07/17/2012  
Category: TWO HR  
Status Date: 09/17/2012  
Phase: Not reported  
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:  
Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/29/2013  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOXROCK LONGWATER II REALTY LLC (Continued)**

**S108858798**

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 7/17/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 7/17/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 7/19/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 7/24/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/14/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 9/17/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FLDRUN  
Action Date: 9/29/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:  
Chemical: HYDRAULIC FLUID  
Quantity: 20 gallons  
Location Type: ROADWAY

HW GEN:  
Name: FOXROCK LONGWATER II REALTY LLC  
Address: 141 LONGWATER DR  
City,State,Zip: NORWELL, MA 02061  
EPA Id: MAR000576926  
RCRA Generator Status: VSQG  
State Generator Status: VQG-MA

Name: BATTELLE NORWELL OPERATIONS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOXROCK LONGWATER II REALTY LLC (Continued)**

**S108858798**

Address: 141 LONGWATER DR  
City,State,Zip: NORWELL, MA 02061  
EPA Id: MAC300095908  
RCRA Generator Status: LQG  
State Generator Status: LQG-MA

42  
NNE  
1/2-1  
0.866 mi.  
4572 ft.

**NORTH RIVER ELECTRIC SUPPLY  
433 WASHINGTON ST  
NORWELL, MA 02061**

**SHWS 1000768770  
RELEASE N/A**

**Relative:  
Higher**

SHWS:

**Actual:  
127 ft.**

Name: NORTH RIVER ELECTRIC SUPPLY  
Address: 433 WASHINGTON ST  
City,State,Zip: NORWELL, MA 02061  
Facility ID: 4-0000713  
Source Type: DRYWELL  
Release Town: NORWELL  
Notification Date: 01/15/1989  
Category: NONE  
Associated ID: Not reported  
Current Status: DEPNFA  
Status Date: 08/02/1995  
Phase: Not reported  
Response Action Outcome: Not reported  
Oil Or Haz Material: Oil

Name: NORTH RIVER ELECTRIC SUPPLY  
Address: 433 WASHINGTON ST  
City,State,Zip: NORWELL, MA 02061  
Facility ID: 4-0000713  
Source Type: VEHICLE  
Release Town: NORWELL  
Notification Date: 01/15/1989  
Category: NONE  
Associated ID: Not reported  
Current Status: DEPNFA  
Status Date: 08/02/1995  
Phase: Not reported  
Response Action Outcome: Not reported  
Oil Or Haz Material: Oil

Release:

Name: NORTH RIVER ELECTRIC SUPPLY  
Address: 433 WASHINGTON ST  
City,State,Zip: NORWELL, MA 02061  
Release Tracking Number/Current Status: 4-0000713 / DEPNFA  
Primary ID: Not reported  
Official City: NORWELL  
Notification: 01/15/1989  
Category: NONE  
Status Date: 08/02/1995  
Phase: Not reported  
Response Action Outcome: -  
Oil / Haz Material Type: Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH RIVER ELECTRIC SUPPLY (Continued)**

**1000768770**

Click here to access the MA DEP site for this facility:

**Actions:**

Action Type: Release Disposition  
Action Status: Valid Transition Site  
Action Date: 1/15/1989  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Status: DEPNFA  
Action Date: 8/2/1995  
Response Action Outcome: Not reported

**Chemicals:**

Chemical: WASTE OIL  
Quantity: Not reported  
Location Type: COMMERCIAL  
Source: DRYWELL  
Source: VEHICLE

43  
East  
1/2-1  
0.894 mi.  
4719 ft.  
Relative:  
Lower  
Actual:  
109 ft.

**MACYS HANOVER 184  
1775 WASHINGTON ST  
HANOVER, MA 02339**

**SHWS S101041698  
LUST N/A  
SPILLS  
RELEASE  
ASBESTOS  
GWDP  
HW GEN  
NPDES**

**SHWS:**

Name: SEARS AUTO - HANOVER MALL  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Facility ID: 4-0011273  
Source Type: Not reported  
Release Town: HANOVER  
Notification Date: 04/06/1995  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 04/12/1996  
Phase: Not reported  
Response Action Outcome: A2  
Oil Or Haz Material: Hazardous Material

**LUST:**

**Facility:**

Name: SEARS AUTO  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
**Current Status: Response Action Outcome**  
Release Tracking Number/Current Status: 4-0010396 / RAO  
Status Date: 10/17/1994  
Source Type: UST  
Release Town: HANOVER  
Notification Date: 04/07/1994

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil Or Haz Material: Oil  
Location Type: COMMERCIAL  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: TOTAL PETROLEUM HYDROCARBONS (TPH)  
Quantity: 955 milligrams per kilogram  
Chemical: WASTE OIL  
Quantity: Not reported

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 10/17/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 10/28/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 4/13/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 4/21/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 4/7/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 4/7/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 4/7/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 4/8/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 7/22/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

MA Spills:

Facility ID:	0000	Spill ID:	S92-0160
Staff Lead:	BRENNAN, S	Date Entered:	19930920
Last Entered:	19930920	First Response:	19920310
Spill Date:	19920310	Spill Time:	03:30AM
Report Date:	19920310	Report Time:	03:20PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	WASTE	Contam Soil:	Not reported
Env Impact:	-----	Other Impact:	Not reported
Material:	WASTE OIL	Other Material:	Not reported
Qty Reported:	51-100	Qty Actual:	UNKNOWN
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	OTHER SOURCE >	Other Source:	OIL SEPARATER
Incident:	OVERFILL	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	TED GUTHRIE/CYN ENV		
Notif Tel:	Not reported		
Days/Close:	0		

Release:

Name: SEARS AUTO  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0010396 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 04/07/1994  
Category: 72 HR  
Status Date: 10/17/1994  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

MAP FINDINGS

**MACYS HANOVER 184 (Continued)**

**S101041698**

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

- |  |   |
|--|---|
| Action Type:<br>Action Status:<br>Action Date:<br>Response Action Outcome: | Response Action Outcome - RAO<br>RAO Statement Received<br>10/17/1994<br>A permanent solution has been achieved. Contamination has not been reduced to background.  |
| Action Type:<br>Action Status:<br>Action Date:<br>Response Action Outcome: | Response Action Outcome - RAO<br>Fee Received - FMCRA Use Only<br>10/28/1994<br>A permanent solution has been achieved. Contamination has not been reduced to background.   |
| Action Type:<br>Action Status:<br>Action Date:<br>Response Action Outcome: | A Notice sent to a Potentially Responsible Party (PRP)<br>A MassDEP piece of correspondence was issued (approvals, NORs, etc.<br>4/13/1994<br>A permanent solution has been achieved. Contamination has not been reduced to background. |
| Action Type:<br>Action Status:<br>Action Date:<br>Response Action Outcome: | RNF<br>Reportable Release under MGL 21E<br>4/21/1994<br>A permanent solution has been achieved. Contamination has not been reduced to background.   |
| Action Type:<br>Action Status:<br>Action Date:<br>Response Action Outcome: | Immediate Response Action<br>Oral Approval of Plan or Action<br>4/7/1994<br>A permanent solution has been achieved. Contamination has not been reduced to background.   |
| Action Type:<br>Action Status:<br>Action Date:<br>Response Action Outcome: | RLFA<br>FOLOFF<br>4/7/1994<br>A permanent solution has been achieved. Contamination has not been reduced to background.   |
| Action Type:<br>Action Status:<br>Action Date:<br>Response Action Outcome: | Release Disposition<br>Reportable Release under MGL 21E<br>4/7/1994<br>A permanent solution has been achieved. Contamination has not been reduced to background.  |
| Action Type:<br>Action Status:<br>Action Date:<br>Response Action Outcome: | RLFA<br>FOLOFF<br>4/8/1994<br>A permanent solution has been achieved. Contamination has not been reduced to background.   |
| Action Type:<br>Action Status:<br>Action Date:<br>Response Action Outcome: | Immediate Response Action<br>Completion Statement Received<br>7/22/1994<br>A permanent solution has been achieved. Contamination has not been reduced to background.  |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Chemicals:

Chemical: TOTAL PETROLEUM HYDROCARBONS (TPH)  
Quantity: 955 milligrams per kilogram  
Chemical: WASTE OIL  
Quantity: Not reported  
Location Type: COMMERCIAL  
Source: UST

Name: SEARS AUTO - HANOVER MALL  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA 023390000  
Release Tracking Number/Current Status: 4-0011273 / RAO  
Primary ID: Not reported  
Official City: HANOVER  
Notification: 04/06/1995  
Category: 120 DY  
Status Date: 04/12/1996  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 1/30/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Status or Interim Report Received  
Action Date: 10/23/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 4/12/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 4/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 4/26/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Action Status: Reportable Release under MGL 21E  
Action Date: 4/6/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 4/6/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 5/30/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 6/12/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Written Approval of Plan  
Action Date: 6/16/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: CADMIUM  
Quantity: 32 parts per billion

ASBESTOS:  
Name: HANOVER MALL  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 01/09/2003  
End Date: 01/24/2003  
Date Entered: Not reported  
Entry Date: 12/30/2002  
Quantity Material Removed SF: 1400.00  
Quantity Material Removed LF: Not reported  
Project Description: Trowel Coatings  
AR Tracking ID: 21390  
Super Lic Number: AS032198  
Monitor Lic Number: AA000162  
Lab Lic Number: AA000162  
Year: 2002  
Sticker Number: 559627  
Form Type: ANF-001  
Fee Status: 60  
Facility Phone: (781) 826-7386

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Sub Town: Not reported  
Worksite: future weight watchers store  
Occupied: -1  
Contractor: AC000423  
Contract Type: Not reported  
Hours: 7-4  
Project Type: Renovation  
Abatement Process: Full Containment  
Location: Indoors  
Decon Process: 3 chamber  
Disposal Methods: 2 Ply Poly Bag with Label  
Facility Usage: Shopping Mall  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: Not reported  
Owner Name: T.A.Realty assoc.  
Owner Address: 45 Main Street  
Owner City: Boston  
Owner State: MA  
On Site Manager Name: Not reported  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: Not reported  
Transporter Name: AMERICAN ENVIRONMENTAL CONTRACTORS INC  
Transporter Address: 72A CONCORD STREET  
Transporter City: NORTH READING  
Transporter State: MA  
Final Site: 37  
Certified Name: Paul Ashman  
Cert Sign Date: Not reported  
Certified Company: Not reported  
Certified Phone: (978) 276-1211  
Entered\_by: Not reported

Name: HANOVER MALL  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 10/08/2019  
End Date: 01/08/2020  
Date Entered: Not reported  
Entry Date: 09/24/2019  
Quantity Material Removed SF: 657500  
Quantity Material Removed LF: 8010  
Project Description: PIPEINSUL OTHER CLKFLPLASPRFT/MJCCP  
AR Tracking ID: 329291  
Super Lic Number: AS034193  
Monitor Lic Number: AA000007  
Lab Lic Number: AA000007  
Year: 2019  
Sticker Number: 100316518  
Form Type: ANF-001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Fee Status: EXEMPT  
Facility Phone: 7818267386  
Sub Town: Not reported  
Worksite: 1ST FLOOR THROUGHOUT  
Occupied: -1  
Contractor: AC000427  
Contract Type: VERBAL  
Hours: 6AM-2PM  
Project Type: Renv  
Abatement Process: Disp  
Location: INOUTDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT  
Disposal Methods: ALL MATERIALS TO BE WETTED AND DOUBLED BAGGED  
Facility Usage: MALL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: PREP HANOVER REAL ESTATE  
Owner Address: 1775 WASHINGTON STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: MICHAEL HOBAN  
On Site Manager Phone: 7818267386  
Ins Comp: N/A  
Policy Number: N/A  
EXP Date: 10/31/2019  
Facility Size: 270000  
Transporter Name: THE AULSON COMPANY INC  
Transporter Address: 49 DANTON DRIVE  
Transporter City: METHUEN  
Transporter State: MA  
Final Site: Not reported  
Certified Name: JAMES MCCARTHY  
Cert Sign Date: 09/24/2019  
Certified Company: THE AULSON COMPANY INC  
Certified Phone: 9789754500  
Entered\_by: EVERYONE

Name: HANOVER MALL  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 10/08/2019  
End Date: 01/08/2020  
Date Entered: Not reported  
Entry Date: 09/24/2019  
Quantity Material Removed SF: 657500  
Quantity Material Removed LF: 8010  
Project Description: PIPEINSUL OTHER  
AR Tracking ID: 329273  
Super Lic Number: AS034193  
Monitor Lic Number: AA000007  
Lab Lic Number: AA000007  
Year: 2019

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Sticker Number: 100316505  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7818267386  
Sub Town: Not reported  
Worksite: 1ST FLOOR  
Occupied: -1  
Contractor: AC000427  
Contract Type: VERBAL  
Hours: 6AM-2PM  
Project Type: Renv  
Abatement Process: Fcontain,Disp  
Location: INOUTDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT  
Disposal Methods: ALL MATERIALS TO BE WETTED AND DOUBLED BAGGED  
Facility Usage: MALL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: PREP HANOVER REAL ESTATE  
Owner Address: 1775 WASHINGTON STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: MICHAEL HOBAN  
On Site Manager Phone: 7818267386  
Ins Comp: N/A  
Policy Number: N/A  
EXP Date: 10/31/2019  
Facility Size: 270000  
Transporter Name: THE AULSON COMPANY INC  
Transporter Address: 49 DANTON DRIVE  
Transporter City: METHUEN  
Transporter State: MA  
Final Site: Not reported  
Certified Name: JAMES MCCARTHY  
Cert Sign Date: 09/24/2019  
Certified Company: THE AULSON COMPANY INC  
Certified Phone: 9789754500  
Entered\_by: EVERYONE

Name: FORMER PATRIOT CINEMAS  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 06/28/2021  
End Date: 07/09/2021  
Date Entered: Not reported  
Entry Date: 06/03/2021  
Quantity Material Removed SF: 500  
Quantity Material Removed LF: 14000  
Project Description: OTHER TILE MASTIC WALL COAT  
AR Tracking ID: 366017  
Super Lic Number: AS901820  
Monitor Lic Number: AA000144



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Lab Lic Number: AA000144  
Year: 2021  
Sticker Number: 100347253  
Form Type: ANF-001  
Fee Status: HUNDRED  
Facility Phone: 7745516061  
Sub Town: Not reported  
Worksite: THROUGHOUT BUILDING  
Occupied: 0  
Contractor: AC000884  
Contract Type: WRITTEN  
Hours: 7AM - 5PM  
Project Type: Dem  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: 3 STAGE DECON UNIT  
Disposal Methods: WASTE WILL REMAIN WET AT ALL TIMES AND PLACED IN DOUBLE 6 MIL LABELED POLY BAGS  
Facility Usage: FORMER PATRIOT CINEMA  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: HANOVER COMPANY  
Owner Address: 1780 SOUTH POST OAK LANE  
Owner City: HOUSTON  
Owner State: MA  
On Site Manager Name: RYAN MALONEY  
On Site Manager Phone: 7745516061  
Ins Comp: GREAT DIVIDE INSURANCE COMPANY  
Policy Number: WCA2032842 - 10  
EXP Date: 9/1/2021  
Facility Size: 0  
Transporter Name: RED TECHNOLOGY INC  
Transporter Address: 173 PICKERING STREET  
Transporter City: PORTLAND  
Transporter State: CT  
Final Site: Not reported  
Certified Name: STEPHEN WENZEL  
Cert Sign Date: 06/03/2021  
Certified Company: BANNER ENVIRONMENTAL  
Certified Phone: 7819346873  
Entered\_by: BANNERENVIRONMENTAL  
  
Name: FORMER PATRIOT CINEMAS  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/26/2021  
End Date: 08/06/2021  
Date Entered: Not reported  
Entry Date: 07/06/2021  
Quantity Material Removed SF: 500  
Quantity Material Removed LF: 14000  
Project Description: OTHER TILE MASTIC WALL COAT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

AR Tracking ID: 368062  
Super Lic Number: AS901820  
Monitor Lic Number: AA000144  
Lab Lic Number: AA000144  
Year: 2021  
Sticker Number: 100347253R1  
Form Type: ANF-001  
Fee Status: THIRTY FIVE  
Facility Phone: 7745516061  
Sub Town: Not reported  
Worksite: THROUGHOUT BUILDING  
Occupied: 0  
Contractor: AC000884  
Contract Type: WRITTEN  
Hours: 7AM - 5PM  
Project Type: Dem  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: 3 STAGE DECON UNIT  
Disposal Methods: WASTE WILL REMAIN WET AT ALL TIMES AND PLACED IN DOUBLE 6 MIL LABELED POLY BAGS  
Facility Usage: FORMER PATRIOT CINEMA  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: HANOVER COMPANY  
Owner Address: 1780 SOUTH POST OAK LANE  
Owner City: HOUSTON  
Owner State: MA  
On Site Manager Name: RYAN MALONEY  
On Site Manager Phone: 7745516061  
Ins Comp: GREAT DIVIDE INSURANCE COMPANY  
Policy Number: WCA2032842 - 10  
EXP Date: 9/1/2021  
Facility Size: 0  
Transporter Name: RED TECHNOLOGY INC  
Transporter Address: 173 PICKERING STREET  
Transporter City: PORTLAND  
Transporter State: CT  
Final Site: Not reported  
Certified Name: STEPHEN WENZEL  
Cert Sign Date: 07/06/2021  
Certified Company: BANNER ENVIRONMENTAL  
Certified Phone: 7819346873  
Entered\_by: BANNERENVIRONMENTAL  
  
Name: FORMER PATRIOT CINEMAS  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/26/2021  
End Date: 08/13/2021  
Date Entered: Not reported  
Entry Date: 07/30/2021

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Quantity Material Removed SF: 500  
Quantity Material Removed LF: 14000  
Project Description: OTHER TILE MASTIC WALL COAT  
AR Tracking ID: 369877  
Super Lic Number: AS901820  
Monitor Lic Number: AA000144  
Lab Lic Number: AA000144  
Year: 2021  
Sticker Number: 100347253R2  
Form Type: ANF-001  
Fee Status: THIRTY FIVE  
Facility Phone: 7745516061  
Sub Town: Not reported  
Worksite: THROUGHOUT BUILDING  
Occupied: 0  
Contractor: AC000884  
Contract Type: WRITTEN  
Hours: 7AM - 5PM  
Project Type: Dem  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: 3 STAGE DECON UNIT  
Disposal Methods: WASTE WILL REMAIN WET AT ALL TIMES AND PLACED IN DOUBLE 6 MIL LABELED POLY BAGS  
  
Facility Usage: FORMER PATRIOT CINEMA  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: HANOVER COMPANY  
Owner Address: 1780 SOUTH POST OAK LANE  
Owner City: HOUSTON  
Owner State: MA  
On Site Manager Name: RYAN MALONEY  
On Site Manager Phone: 7745516061  
Ins Comp: GREAT DIVIDE INSURANCE COMPANY  
Policy Number: WCA2032842 - 10  
EXP Date: 9/1/2021  
Facility Size: 0  
Transporter Name: RED TECHNOLOGY INC  
Transporter Address: 173 PICKERING STREET  
Transporter City: PORTLAND  
Transporter State: CT  
Final Site: Not reported  
Certified Name: STEPHEN WENZEL  
Cert Sign Date: 07/30/2021  
Certified Company: BANNER ENVIRONMENTAL  
Certified Phone: 7819346873  
Entered\_by: BANNERENVIRONMENTAL  
  
Name: FORMER PATRIOT CINEMAS  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/26/2021

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

End Date: 08/23/2021  
Date Entered: Not reported  
Entry Date: 08/13/2021  
Quantity Material Removed SF: 500  
Quantity Material Removed LF: 14000  
Project Description: OTHER TILE MASTIC WALL COAT  
AR Tracking ID: 370831  
Super Lic Number: AS901820  
Monitor Lic Number: AA000144  
Lab Lic Number: AA000144  
Year: 2021  
Sticker Number: 100347253R3  
Form Type: ANF-001  
Fee Status: THIRTY FIVE  
Facility Phone: 7745516061  
Sub Town: Not reported  
Worksite: THROUGHOUT BUILDING  
Occupied: 0  
Contractor: AC000884  
Contract Type: WRITTEN  
Hours: 7AM - 5PM  
Project Type: Dem  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: 3 STAGE DECON UNIT  
Disposal Methods: WASTE WILL REMAIN WET AT ALL TIMES AND PLACED IN DOUBLE 6 MIL LABELED POLY BAGS  
Facility Usage: FORMER PATRIOT CINEMA  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: HANOVER COMPANY  
Owner Address: 1780 SOUTH POST OAK LANE  
Owner City: HOUSTON  
Owner State: MA  
On Site Manager Name: RYAN MALONEY  
On Site Manager Phone: 7745516061  
Ins Comp: GREAT DIVIDE INSURANCE COMPANY  
Policy Number: WCA2032842 - 10  
EXP Date: 9/1/2021  
Facility Size: 0  
Transporter Name: RED TECHNOLOGY INC  
Transporter Address: 173 PICKERING STREET  
Transporter City: PORTLAND  
Transporter State: CT  
Final Site: Not reported  
Certified Name: STEPHEN WENZEL  
Cert Sign Date: 08/13/2021  
Certified Company: BANNER ENVIRONMENTAL  
Certified Phone: 7819346873  
Entered\_by: BANNERENVIRONMENTAL  
  
Name: FORMER PATRIOT CINEMAS  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/26/2021  
End Date: 09/01/2021  
Date Entered: Not reported  
Entry Date: 08/23/2021  
Quantity Material Removed SF: 500  
Quantity Material Removed LF: 14000  
Project Description: OTHER TILE MASTIC WALL COAT  
AR Tracking ID: 371480  
Super Lic Number: AS901820  
Monitor Lic Number: AA000144  
Lab Lic Number: AA000144  
Year: 2021  
Sticker Number: 100347253R4  
Form Type: ANF-001  
Fee Status: THIRTY FIVE  
Facility Phone: 7745516061  
Sub Town: Not reported  
Worksite: THROUGHOUT BUILDING  
Occupied: 0  
Contractor: AC000884  
Contract Type: WRITTEN  
Hours: 7AM - 5PM  
Project Type: Dem  
Abatement Process: Fcontain  
Location: INDOORS  
Decon Process: 3 STAGE DECON UNIT  
Disposal Methods: WASTE WILL REMAIN WET AT ALL TIMES AND PLACED IN DOUBLE 6 MIL LABELED POLY BAGS  
Facility Usage: FORMER PATRIOT CINEMA  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: HANOVER COMPANY  
Owner Address: 1780 SOUTH POST OAK LANE  
Owner City: HOUSTON  
Owner State: MA  
On Site Manager Name: RYAN MALONEY  
On Site Manager Phone: 7745516061  
Ins Comp: GREAT DIVIDE INSURANCE COMPANY  
Policy Number: WCA2032842 - 10  
EXP Date: 9/1/2021  
Facility Size: 0  
Transporter Name: RED TECHNOLOGY INC  
Transporter Address: 173 PICKERING STREET  
Transporter City: PORTLAND  
Transporter State: CT  
Final Site: Not reported  
Certified Name: STEPHEN WENZEL  
Cert Sign Date: 08/23/2021  
Certified Company: BANNER ENVIRONMENTAL  
Certified Phone: 7819346873  
Entered\_by: BANNERENVIRONMENTAL  
Name: FORMER PATRIOT CINEMAS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 09/24/2021  
End Date: 10/08/2021  
Date Entered: Not reported  
Entry Date: 09/13/2021  
Quantity Material Removed SF: 4000  
Quantity Material Removed LF: 0  
Project Description: OTHER WATERPROOFING  
AR Tracking ID: 372735  
Super Lic Number: AS901820  
Monitor Lic Number: AA000144  
Lab Lic Number: AA000144  
Year: 2021  
Sticker Number: 100352782  
Form Type: ANF-001  
Fee Status: Not reported  
Facility Phone: 7745516061  
Sub Town: Not reported  
Worksite: THROUGHOUT BUILDING  
Occupied: 0  
Contractor: AC000884  
Contract Type: WRITTEN  
Hours: 7AM - 4PM  
Project Type: Dem  
Abatement Process: Fcontain  
Location: INOUTDOORS  
Decon Process: 3 STAGE DECON UNIT  
Disposal Methods: WASTE WILL REMAIN WET AT ALL TIMES AND PLACED IN DOUBLE 6 MIL LABELED POLY BAGS  
Facility Usage: FORMER CINEMA  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: HANOVER COMPANY  
Owner Address: 1780 SOUTH POST OAK LANE  
Owner City: HOUSTON  
Owner State: MA  
On Site Manager Name: RYAN MALONEY  
On Site Manager Phone: 7745516061  
Ins Comp: GREAT DIVIDE INSURANCE COMPANY  
Policy Number: WCA2032842 - 11  
EXP Date: 9/1/2022  
Facility Size: 0  
Transporter Name: BANNER ENVIRONMENTAL  
Transporter Address: 31 HAYWARD STREET STE 2A-205  
Transporter City: FRANKLIN  
Transporter State: MA  
Final Site: Not reported  
Certified Name: STEPHEN WENZEL  
Cert Sign Date: 09/13/2021  
Certified Company: BANNER ENVIRONMENTAL  
Certified Phone: 7819346873

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

MACYS HANOVER 184 (Continued)

S101041698

Entered\_by: BANNERENVIRONMENTAL

Name: HANOVER MALL  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 03/25/2020  
End Date: 04/25/2020  
Date Entered: Not reported  
Entry Date: 03/24/2020  
Quantity Material Removed SF: 270000  
Quantity Material Removed LF: 0  
Project Description: OTHER SPRINKLERS  
AR Tracking ID: 340960  
Super Lic Number: AS034193  
Monitor Lic Number: AA000007  
Lab Lic Number: AA000007  
Year: 2020  
Sticker Number: 100326183  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7818267386  
Sub Town: Not reported  
Worksite: 1ST FLOOR THROUGHOUT  
Occupied: -1  
Contractor: AC000427  
Contract Type: VERBAL  
Hours: 6AM-2PM  
Project Type: Dem  
Abatement Process: Disp  
Location: INDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT  
Disposal Methods: ALL MATERIALS TO BE WETTED AND DOUBLED BAGGED  
Facility Usage: MALL  
Waiver Given: Not reported  
DEP Waiver Number: SAW-19-661  
DLWD Waiver Number: 28594-2020  
Small Owner Occ: 0  
Owner Name: PREP HANOVER REAL ESTATE  
Owner Address: 1775 WASHINGTON STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: MICHAEL HOBAN  
On Site Manager Phone: 7818267386  
Ins Comp: N/A  
Policy Number: N/A  
EXP Date: 3/2/2021  
Facility Size: 270000  
Transporter Name: THE AULSON COMPANY, INC.  
Transporter Address: 49 DANTON DRIVE  
Transporter City: METHUEN  
Transporter State: MA  
Final Site: Not reported  
Certified Name: JAMES MCCARTHY  
Cert Sign Date: 03/24/2020



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Certified Company: THE AULSON COMPANY, INC.  
Certified Phone: 9789754500  
Entered\_by: EVERYONE

Name: HANOVER MALL  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 04/20/2020  
End Date: 04/24/2020  
Date Entered: Not reported  
Entry Date: 04/17/2020  
Quantity Material Removed SF: 0  
Quantity Material Removed LF: 100  
Project Description: TRANSPICE  
AR Tracking ID: 342040  
Super Lic Number: AS034193  
Monitor Lic Number: AA000007  
Lab Lic Number: AA000007  
Year: 2020  
Sticker Number: 100326931  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7818267386  
Sub Town: Not reported  
Worksite: FORMER SEARS AUTO  
Occupied: -1  
Contractor: AC000427  
Contract Type: VERBAL  
Hours: 6PM-2AM  
Project Type: Renv  
Abatement Process: Clnp  
Location: OUTDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT  
Disposal Methods: ALL MATERIALS TO BE WETTED AND DOUBLED BAGGED  
Facility Usage: MALL  
Waiver Given: Not reported  
DEP Waiver Number: SAW-20-218  
DLWD Waiver Number: 28729-2020  
Small Owner Occ: 0  
Owner Name: PREP HANOVER REAL ESTATE  
Owner Address: 1775 WASHINGTON STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: MICHAEL HOBAN  
On Site Manager Phone: 7818267386  
Ins Comp: N/A  
Policy Number: N/A  
EXP Date: 3/8/2021  
Facility Size: 270000  
Transporter Name: THE AULSON COMPANY, INC.  
Transporter Address: 49 DANTON DRIVE  
Transporter City: METHUEN  
Transporter State: MA  
Final Site: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Certified Name: JAMES MCCARTHY  
Cert Sign Date: 04/17/2020  
Certified Company: THE AULSON COMPANY, INC.  
Certified Phone: 9789754500  
Entered\_by: EVERYONE

Name: HANOVER MALL  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 05/26/2020  
End Date: 06/23/2020  
Date Entered: Not reported  
Entry Date: 05/12/2020  
Quantity Material Removed SF: 1500  
Quantity Material Removed LF: Not reported  
Project Description: TRANSPIPE  
AR Tracking ID: 343087  
Super Lic Number: AS034193  
Monitor Lic Number: AA000007  
Lab Lic Number: AA000007  
Year: 2020  
Sticker Number: 100327784  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7818267386  
Sub Town: Not reported  
Worksite: EXTERIOR  
Occupied: -1  
Contractor: AC000427  
Contract Type: VERBAL  
Hours: 6PM-2AM  
Project Type: Renv  
Abatement Process: Clnp  
Location: OUTDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT  
Disposal Methods: ALL MATERIALS TO BE WETTED AND DOUBLED BAGGED  
Facility Usage: MALL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: PREP HANOVER REAL ESTATE  
Owner Address: 1775 WASHINGTON STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: MICHAEL HOBAN  
On Site Manager Phone: 7818267386  
Ins Comp: N/A  
Policy Number: N/A  
EXP Date: 3/8/2021  
Facility Size: 270000  
Transporter Name: THE AULSON COMPANY, INC.  
Transporter Address: 49 DANTON DRIVE  
Transporter City: METHUEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Transporter State: MA  
Final Site: Not reported  
Certified Name: JAMES MCCARTHY  
Cert Sign Date: 05/12/2020  
Certified Company: THE AULSON COMPANY, INC.  
Certified Phone: 9789754500  
Entered\_by: EVERYONE

Name: HANOVER MALL  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 03/25/2020  
End Date: 05/01/2020  
Date Entered: Not reported  
Entry Date: 04/23/2020  
Quantity Material Removed SF: 270000  
Quantity Material Removed LF: 0  
Project Description: OTHER SPRINKLERS  
AR Tracking ID: 342254  
Super Lic Number: AS034193  
Monitor Lic Number: AA000007  
Lab Lic Number: AA000007  
Year: 2020  
Sticker Number: 100326183R  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7818267386  
Sub Town: Not reported  
Worksite: 1ST FLOOR THROUGHOUT  
Occupied: -1  
Contractor: AC000427  
Contract Type: VERBAL  
Hours: 6AM-2PM  
Project Type: Dem  
Abatement Process: Disp  
Location: INDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT  
Disposal Methods: ALL MATERIALS TO BE WETTED AND DOUBLED BAGGED  
Facility Usage: MALL  
Waiver Given: Not reported  
DEP Waiver Number: SAW-19-661  
DLWD Waiver Number: 28594-2020  
Small Owner Occ: 0  
Owner Name: PREP HANOVER REAL ESTATE  
Owner Address: 1775 WASHINGTON STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: MICHAEL HOBAN  
On Site Manager Phone: 7818267386  
Ins Comp: N/A  
Policy Number: N/A  
EXP Date: 3/2/2021  
Facility Size: 270000  
Transporter Name: THE AULSON COMPANY, INC.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Transporter Address: 49 DANTON DRIVE  
Transporter City: METHUEN  
Transporter State: MA  
Final Site: Not reported  
Certified Name: JAMES MCCARTHY  
Cert Sign Date: 04/23/2020  
Certified Company: Not reported  
Certified Phone: 9789754500  
Entered\_by: EVERYONE

Name: SEARS #1243  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 04/21/2008  
End Date: 05/02/2008  
Date Entered: Not reported  
Entry Date: 04/04/2008  
Quantity Material Removed SF: 8500.00  
Quantity Material Removed LF: .00  
Project Description: Trns  
AR Tracking ID: 96582  
Super Lic Number: AS033135  
Monitor Lic Number: AA000028  
Lab Lic Number: AA000145  
Year: 2008  
Sticker Number: 100070239  
Form Type: ANF-001  
Fee Status: Fifty  
Facility Phone: Not reported  
Sub Town: Not reported  
Worksite: MAIN FLOOR  
Occupied: -1  
Contractor: AC000392  
Contract Type: WRITTEN  
Hours: Week days: 9PM-7AM Week end: N/A  
Project Type: Renv  
Abatement Process: Fcontain  
Location: Indoors  
Decon Process: 3-CHAMBERED DECONTAMINATION FACILITY WITH SHOWER  
Disposal Methods: ACM WILL BE WET (HAND TO BAG) ACM WILL BE LABELED, PACKAGED & TRANSPORTED

Facility Usage: RETAIL STORE  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 5  
Owner Name: SEARS HOLDINGS MANAGEMENT CORP.  
Owner Address: 3333 BEVERLY ROAD  
Owner City: HOFFMAN ESTATES, IL  
Owner State: MA  
On Site Manager Name: MICHAEL CHAIN, WATTERSON ENVIRON.  
On Site Manager Phone: 732-583-3003  
Ins Comp: Not reported  
Policy Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

EXP Date: Not reported  
Facility Size: Not reported  
Transporter Name: NORTHEAST REMEDIATION  
Transporter Address: 25 STOREY AVENUE #256  
Transporter City: NEWBURYPORT, MA  
Transporter State: Not reported  
Final Site: 47  
Certified Name: SARAH MARCONE  
Cert Sign Date: 04/04/2008  
Certified Company: NER  
Certified Phone: 6173899188  
Entered\_by: Not reported

Name: SEARS #1243  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 04/23/2008  
End Date: 05/09/2008  
Date Entered: Not reported  
Entry Date: 04/08/2008  
Quantity Material Removed SF: 4000.00  
Quantity Material Removed LF: .00  
Project Description: Trns  
AR Tracking ID: 96712  
Super Lic Number: AS033135  
Monitor Lic Number: AA000028  
Lab Lic Number: AA000145  
Year: 2008  
Sticker Number: 100070394  
Form Type: ANF-001  
Fee Status: Fifty  
Facility Phone: Not reported  
Sub Town: Not reported  
Worksite: MAIN FLOOR  
Occupied: -1  
Contractor: AC000392  
Contract Type: WRITTEN  
Hours: Week days: 9PM-7AM Week end: N/A  
Project Type: Renv  
Abatement Process: Fcontain  
Location: Indoors  
Decon Process: 3 CHAMBERED DECONTAMINATION FACILITY WITH SHOWER  
Disposal Methods: ACM WILL BE WET(HAND TO BAG)ACM WILL BE LABELED, PACKAGED & TRANSPORTED

Facility Usage: RETAIL STORE  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 5  
Owner Name: SEARS HOLDINGS MANAGEMENT CORP.  
Owner Address: 3333 BEVERLY ROAD  
Owner City: HOFFMAN ESTATES, IL  
Owner State: MA  
On Site Manager Name: MICHAEL CHAIN, WATTERSON ENVIRON.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

On Site Manager Phone: 732-583-3003  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: Not reported  
Transporter Name: NORTHEAST REMEDIATION  
Transporter Address: 25 STOREY AVENUE #256  
Transporter City: NEWBURYPORT, MA  
Transporter State: Not reported  
Final Site: 47  
Certified Name: SARAH MARCONE  
Cert Sign Date: 04/08/2008  
Certified Company: NER  
Certified Phone: 6173899188  
Entered\_by: Not reported

Name: HANOVER MALL  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 11/19/2004  
End Date: 12/03/2004  
Date Entered: Not reported  
Entry Date: 11/05/2004  
Quantity Material Removed SF: 2600.00  
Quantity Material Removed LF: Not reported  
Project Description: SHEETROCK JOINT COMPOUND  
AR Tracking ID: 47019  
Super Lic Number: AS032198  
Monitor Lic Number: AM033696  
Lab Lic Number: AA000054  
Year: 2004  
Sticker Number: 203623  
Form Type: ANF-001  
Fee Status: F  
Facility Phone: (781) 826-7386  
Sub Town: Not reported  
Worksite: WEIGHT WATCHERS STORAGE AREA, 1 FLR  
Occupied: Not reported  
Contractor: AC000423  
Contract Type: Not reported  
Hours: 7-330  
Project Type: Not reported  
Abatement Process: Not reported  
Location: Not reported  
Decon Process: 3 CHAMBER  
Disposal Methods: WET 2 PLY POLY BAG  
Facility Usage: Not reported  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: Not reported  
Owner Name: HANOVER MALL PARTNERS LP  
Owner Address: 1775 WASHINGTON ST  
Owner City: HANOVER

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Owner State: MA  
On Site Manager Name: Not reported  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: Not reported  
Transporter Name: SERVICE TRANS  
Transporter Address: 58 PYLES LN  
Transporter City: NEW CASTLE  
Transporter State: DE  
Final Site: 47  
Certified Name: JAMES OCONNOR  
Cert Sign Date: 11/04/2004  
Certified Company: Not reported  
Certified Phone: Not reported  
Entered\_by: MMitchell

Name: HANOVER CROSSING  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 10/10/2022  
End Date: 10/14/2022  
Date Entered: Not reported  
Entry Date: 09/26/2022  
Quantity Material Removed SF: 0  
Quantity Material Removed LF: 100  
Project Description: TRANSPICE  
AR Tracking ID: 399319  
Super Lic Number: AS061001  
Monitor Lic Number: Not reported  
Lab Lic Number: Not reported  
Year: 2022  
Sticker Number: 100373519  
Form Type: ANF-001  
Fee Status: HUNDRED  
Facility Phone: 5137462593  
Sub Town: Not reported  
Worksite: EXTERIOR  
Occupied: 0  
Contractor: AC000822  
Contract Type: WRITTEN  
Hours: 6AM-5PM  
Project Type: Renv  
Abatement Process: Fcontain, oth:PPE & WET METHODS  
Location: OUTDOORS  
Decon Process: NEGATIVE PRESSURE ENCLOSURE WITH 6MIL POLY AND CONTIGUOUS 3 CHAMBER DECON. CORDONED OFF AREA WITH 6MIL POLY AND REMOTE 3 CHAMBER DECON  
Disposal Methods: MATERIAL WILL REMAIN WET AND PLACED IN DOUBLE LAYER 6MIL POLY LABELED BAGS  
Facility Usage: COMMERCIAL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Small Owner Occ: 0  
Owner Name: PREP PG  
Owner Address: 5905 E GALBRAITH ROAD  
Owner City: CINCINNATI  
Owner State: MA  
On Site Manager Name: LLOYD SOVA  
On Site Manager Phone: 5137462593  
Ins Comp: NA  
Policy Number: NA  
EXP Date: 12/31/2022  
Facility Size: 0  
Transporter Name: NEWROADS ENVIRONMENTAL SERVICES  
Transporter Address: 338 HOWARD STREET  
Transporter City: BROCKTON  
Transporter State: MA  
Final Site: Not reported  
Certified Name: ERIC AMPUJA  
Cert Sign Date: 09/26/2022  
Certified Company: NEWROADS ENVIRONMENTAL  
Certified Phone: 5088978007  
Entered\_by: EAMPUJA

Name: HANOVER MALL WWTP  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 05/24/2021  
End Date: 06/24/2021  
Date Entered: Not reported  
Entry Date: 04/27/2021  
Quantity Material Removed SF: 0  
Quantity Material Removed LF: 600  
Project Description: TRANSPICE  
AR Tracking ID: 363429  
Super Lic Number: AS001223  
Monitor Lic Number: AA000007  
Lab Lic Number: AA000007  
Year: 2021  
Sticker Number: 100345036  
Form Type: ANF-001  
Fee Status: HUNDRED  
Facility Phone: 7818267386  
Sub Town: Not reported  
Worksite: EXTERIOR PARKING LOT  
Occupied: 0  
Contractor: AC000427  
Contract Type: VERBAL  
Hours: 6AM-2PM  
Project Type: Dem  
Abatement Process: Disp  
Location: OUTDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT  
Disposal Methods: ALL MATERIALS TO BE WETTED AND DOUBLE BAGGED  
Facility Usage: MALL  
Waiver Given: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: PREP HANOVER REAL ESTATE  
Owner Address: 1775 WASHINGTON STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: MICHAEL HOBAN  
On Site Manager Phone: 7818267386  
Ins Comp: N/A  
Policy Number: N/A  
EXP Date: 3/7/2022  
Facility Size: 270000  
Transporter Name: THE AULSON COMPANY, INC  
Transporter Address: 49 DANTON DRIVE  
Transporter City: METHUEN  
Transporter State: MA  
Final Site: Not reported  
Certified Name: JAMES MCCARTHY  
Cert Sign Date: 04/27/2021  
Certified Company: THE AULSON COMPANY, INC  
Certified Phone: 9789754500  
Entered\_by: EVERYONE

Name: HANOVER MALL WWTP  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 06/07/2021  
End Date: 06/24/2021  
Date Entered: Not reported  
Entry Date: 05/24/2021  
Quantity Material Removed SF: 0  
Quantity Material Removed LF: 600  
Project Description: TRANSPICE  
AR Tracking ID: 365245  
Super Lic Number: AS001223  
Monitor Lic Number: AA000007  
Lab Lic Number: AA000007  
Year: 2021  
Sticker Number: 100345036R1  
Form Type: ANF-001  
Fee Status: THIRTY FIVE  
Facility Phone: 7818267386  
Sub Town: Not reported  
Worksite: EXTERIOR PARKING LOT  
Occupied: 0  
Contractor: AC000427  
Contract Type: VERBAL  
Hours: 6AM-2PM  
Project Type: Dem  
Abatement Process: Disp  
Location: OUTDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT  
Disposal Methods: ALL MATERIALS TO BE WETTED AND DOUBLE BAGGED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Facility Usage: MALL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: PREP HANOVER REAL ESTATE  
Owner Address: 1775 WASHINGTON STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: MICHAEL HOBAN  
On Site Manager Phone: 7818267386  
Ins Comp: N/A  
Policy Number: N/A  
EXP Date: 3/7/2022  
Facility Size: 270000  
Transporter Name: THE AULSON COMPANY, INC  
Transporter Address: 49 DANTON DRIVE  
Transporter City: METHUEN  
Transporter State: MA  
Final Site: Not reported  
Certified Name: JAMES MCCARTHY  
Cert Sign Date: 05/24/2021  
Certified Company: THE AULSON COMPANY, INC  
Certified Phone: 9789754500  
Entered\_by: EVERYONE

Name: HANOVER MALL  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/15/2003  
End Date: 07/18/2003  
Date Entered: Not reported  
Entry Date: 07/01/2003  
Quantity Material Removed SF: 2350.00  
Quantity Material Removed LF: Not reported  
Project Description: TILE & MASTIC  
AR Tracking ID: 27341  
Super Lic Number: Not reported  
Monitor Lic Number: Not reported  
Lab Lic Number: Not reported  
Year: 2003  
Sticker Number: 201981  
Form Type: ANF-001  
Fee Status: 60  
Facility Phone: Not reported  
Sub Town: Not reported  
Worksite: CHAMPS  
Occupied: -1  
Contractor: AC000423  
Contract Type: Not reported  
Hours: Not reported  
Project Type: Renovation  
Abatement Process: CRITICAL BARRIERS  
Location: Indoors

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Decon Process: AS REQUIRED  
Disposal Methods: WET 2 PLY POLY BAG  
Facility Usage: SHOP MALL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: Not reported  
Owner Name: TA REALTY ASSOC  
Owner Address: 45 MILK ST  
Owner City: BOSTON  
Owner State: MA  
On Site Manager Name: Not reported  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: Not reported  
Transporter Name: SERVICE TRANSPORT GRP  
Transporter Address: POB 2132  
Transporter City: BRISTOL  
Transporter State: MA  
Final Site: 41  
Certified Name: Not reported  
Cert Sign Date: Not reported  
Certified Company: Not reported  
Certified Phone: Not reported  
Entered\_by: mmitchell

Name: HANOVER MALL  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 10/08/2019  
End Date: 02/29/2020  
Date Entered: Not reported  
Entry Date: 12/27/2019  
Quantity Material Removed SF: 657500  
Quantity Material Removed LF: 8010  
Project Description: PIPEINSUL OTHER CLKFLPLASPRFT/MJCCP  
AR Tracking ID: 335570  
Super Lic Number: AS034193  
Monitor Lic Number: AA000007  
Lab Lic Number: AA000007  
Year: 2019  
Sticker Number: 100316518R  
Form Type: ANF-001  
Fee Status: EXEMPT  
Facility Phone: 7818267386  
Sub Town: Not reported  
Worksite: 1ST FLOOR THROUGHOUT  
Occupied: -1  
Contractor: AC000427  
Contract Type: VERBAL  
Hours: 6AM-2PM  
Project Type: Renv

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Abatement Process: Disp  
Location: INOUTDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT  
Disposal Methods: ALL MATERIALS TO BE WETTED AND DOUBLED BAGGED  
Facility Usage: MALL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: PREP HANOVER REAL ESTATE  
Owner Address: 1775 WASHINGTON STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: MICHAEL HOBAN  
On Site Manager Phone: 7818267386  
Ins Comp: N/A  
Policy Number: N/A  
EXP Date: 10/31/2019  
Facility Size: 270000  
Transporter Name: THE AULSON COMPANY INC  
Transporter Address: 49 DANTON DRIVE  
Transporter City: METHUEN  
Transporter State: MA  
Final Site: Not reported  
Certified Name: JAMES MCCARTHY  
Cert Sign Date: 12/27/2019  
Certified Company: Not reported  
Certified Phone: 9789754500  
Entered\_by: EVERYONE

Name: HANOVER MALL  
Address: 1775 WASHINGTON ST.  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 08/15/2006  
End Date: 08/16/2006  
Date Entered: Not reported  
Entry Date: 08/01/2006  
Quantity Material Removed SF: 450.00  
Quantity Material Removed LF: 150.00  
Project Description: Ctr,Trns  
AR Tracking ID: 71298  
Super Lic Number: AS000339  
Monitor Lic Number: AA000162  
Lab Lic Number: AM060665  
Year: 2006  
Sticker Number: 100036727  
Form Type: ANF-001  
Fee Status: Fifty  
Facility Phone: 7818267386  
Sub Town: Not reported  
Worksite: C.V.S  
Occupied: 0  
Contractor: AC000511  
Contract Type: WRITTEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Hours: Week days: 9AM-5 Week end:  
Project Type: Renv  
Abatement Process: Fcontain  
Location: Indoors  
Decon Process: FULL CONTAINMENT  
Disposal Methods: WET ACM PACKED IN DOUBLE BAG 6 MIL LABELED"ASBESTOS"  
Facility Usage: C.V.S  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 5  
Owner Name: SAME  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: MA  
On Site Manager Name: Not reported  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: 1530  
Transporter Name: Not reported  
Transporter Address: Not reported  
Transporter City: Not reported  
Transporter State: Not reported  
Final Site: 18  
Certified Name: JIM NET  
Cert Sign Date: 08/01/2006  
Certified Company: NC, INC  
Certified Phone: 7815893161  
Entered\_by: Not reported

Name: HANOVER MALL  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 03/15/2005  
End Date: 04/08/2005  
Date Entered: Not reported  
Entry Date: 03/02/2005  
Quantity Material Removed SF: 9200.00  
Quantity Material Removed LF: .00  
Project Description: Clth,Trns  
AR Tracking ID: 50641  
Super Lic Number: AS061119  
Monitor Lic Number: AM033696  
Lab Lic Number: AA000162  
Year: 2005  
Sticker Number: 100014559  
Form Type: ANF-001  
Fee Status: Fifty  
Facility Phone: 7818267386  
Sub Town: Not reported  
Worksite: PAPERBACK BOOKSMITH  
Occupied: -1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Contractor: AC000423  
Contract Type: WRITTEN  
Hours: Week days: 7:30-4:00 Week end: N/A  
Project Type: Renv  
Abatement Process: CRITICAL BARRIERS  
Location: Indoors  
Decon Process: THREE STAGE DECON CHAMBER, NEGATIVE AIR  
Disposal Methods: WET/BAGGED/DOUBLE BAGGED/SEALED/LABELED/TRANSPORT IN COVERED VEHICLE TO APPROVED FACILITY  
  
Facility Usage: RETAIL MALL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 5  
Owner Name: HANOVER MALL PARTNERS, LP  
Owner Address: 1775 WASHINGTON ST  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: MICHAEL HOBAN  
On Site Manager Phone: 781-826-7386  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: 3200  
Transporter Name: Not reported  
Transporter Address: Not reported  
Transporter City: Not reported  
Transporter State: Not reported  
Final Site: 18  
Certified Name: JIM O'CONNOR  
Cert Sign Date: 03/02/2005  
Certified Company: AMERICAN ENV CONTRACTO  
Certified Phone: 9782761211  
Entered\_by: Not reported  
  
Name: HANOVER MALL WWTP  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 07/24/2021  
End Date: 07/30/2021  
Date Entered: Not reported  
Entry Date: 07/14/2021  
Quantity Material Removed SF: 0  
Quantity Material Removed LF: 600  
Project Description: TRANSPPIPE  
AR Tracking ID: 368646  
Super Lic Number: AS001223  
Monitor Lic Number: AA000007  
Lab Lic Number: AA000007  
Year: 2021  
Sticker Number: 100349415  
Form Type: ANF-001  
Fee Status: HUNDRED  
Facility Phone: 7818267386



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Sub Town: Not reported  
Worksite: EXTERIOR PARKING LOT  
Occupied: 0  
Contractor: AC000427  
Contract Type: VERBAL  
Hours: 6AM-2PM  
Project Type: Dem  
Abatement Process: Disp  
Location: OUTDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT  
Disposal Methods: ALL MATERIALS TO BE WETTED AND DOUBLE BAGGED  
Facility Usage: MALL  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: PREP HANOVER REAL ESTATE  
Owner Address: 1775 WASHINGTON STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: MICHAEL HOBAN  
On Site Manager Phone: 7818267386  
Ins Comp: N/A  
Policy Number: N/A  
EXP Date: 3/7/2022  
Facility Size: 270000  
Transporter Name: THE AULSON COMPANY, INC  
Transporter Address: 49 DANTON DRIVE  
Transporter City: METHUEN  
Transporter State: MA  
Final Site: Not reported  
Certified Name: JAMES MCCARTHY  
Cert Sign Date: 07/14/2021  
Certified Company: THE AULSON COMPANY, INC  
Certified Phone: 9789754500  
Entered\_by: EVERYONE

Name: HANOVER MALL  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 03/19/2020  
End Date: 04/02/2020  
Date Entered: Not reported  
Entry Date: 03/18/2020  
Quantity Material Removed SF: 5000  
Quantity Material Removed LF: 0  
Project Description: TRANSPANEL  
AR Tracking ID: 340592  
Super Lic Number: AS034193  
Monitor Lic Number: AA000007  
Lab Lic Number: AA000007  
Year: 2020  
Sticker Number: 100325954  
Form Type: ANF-001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Fee Status: EXEMPT  
Facility Phone: 7818267386  
Sub Town: Not reported  
Worksite: ROOF  
Occupied: -1  
Contractor: AC000427  
Contract Type: VERBAL  
Hours: 6AM-2PM  
Project Type: Dem  
Abatement Process: Clnp, oth:REGULATED AREA  
Location: OUTDOORS  
Decon Process: 3 STAGE DECONTAMINATION UNIT  
Disposal Methods: ALL MATERIALS TO BE WETTED AND DOUBLED BAGGED  
Facility Usage: MALL  
Waiver Given: Not reported  
DEP Waiver Number: SAW-20-169  
DLWD Waiver Number: 28545-2020  
Small Owner Occ: 0  
Owner Name: PREP HANOVER REAL ESTATE  
Owner Address: 1775 WASHINGTON STREET  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: MICHAEL HOBAN  
On Site Manager Phone: 7818267386  
Ins Comp: N/A  
Policy Number: N/A  
EXP Date: 3/8/2021  
Facility Size: 270000  
Transporter Name: THE AULSON COMPANY, INC.  
Transporter Address: 49 DANTON DRIVE  
Transporter City: METHUEN  
Transporter State: MA  
Final Site: Not reported  
Certified Name: JAMES MCCARTHY  
Cert Sign Date: 03/18/2020  
Certified Company: THE AULSON COMPANY, INC.  
Certified Phone: 9789754500  
Entered\_by: EVERYONE

Name: FMR AMES DEPT STORE/HANOVER MALL  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 04/16/2004  
End Date: 05/17/2004  
Date Entered: Not reported  
Entry Date: 04/06/2004  
Quantity Material Removed SF: 71050.00  
Quantity Material Removed LF: 220.00  
Project Description: VAT/MASTIC, FITTING,THERMAL WRAP, CAULKING  
AR Tracking ID: 38185  
Super Lic Number: AS051826  
Monitor Lic Number: Not reported  
Lab Lic Number: AA000054  
Year: 2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Sticker Number: 1562285  
Form Type: ANF-001  
Fee Status: F  
Facility Phone: (781) 826-4392  
Sub Town: Not reported  
Worksite: FMR AMES DEPT STORE-THROUGHOUT  
Occupied: Not reported  
Contractor: AC000563  
Contract Type: Not reported  
Hours: 8A-430P  
Project Type: Not reported  
Abatement Process: Not reported  
Location: Not reported  
Decon Process: 3 CHAMBER  
Disposal Methods: WET 2 PLY POLY BAG  
Facility Usage: Not reported  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: THE HANOVER MALL-TA ASSOC REALTY  
Owner Address: 1775 WASHINGTON ST  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: Not reported  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: Not reported  
Transporter Name: ALLIANCE ENVIRONMENTAL SERVICES INC  
Transporter Address: 22 ADMIRAL'S WAY  
Transporter City: CHELSEA  
Transporter State: MA  
Final Site: 17  
Certified Name: JEFFREY H SCHOFIELD  
Cert Sign Date: 04/02/2004  
Certified Company: Not reported  
Certified Phone: Not reported  
Entered\_by: MMitchell

Name: HANOVER MALL  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 01/17/2005  
End Date: 01/31/2005  
Date Entered: Not reported  
Entry Date: 01/04/2005  
Quantity Material Removed SF: 12500.00  
Quantity Material Removed LF: Not reported  
Project Description: SHEETROCK JOINT COMPOUND, FLR TILE AND MASTIC  
AR Tracking ID: 48933  
Super Lic Number: AS032198  
Monitor Lic Number: AM033696

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Lab Lic Number: AA000054  
Year: 2005  
Sticker Number: 203625  
Form Type: ANF-001  
Fee Status: F  
Facility Phone: (781) 826-7386  
Sub Town: Not reported  
Worksite: HOBBY TOWN, DECOR IMAGES, 1ST FLR  
Occupied: Not reported  
Contractor: AC000423  
Contract Type: Not reported  
Hours: 7-330  
Project Type: Not reported  
Abatement Process: Not reported  
Location: Not reported  
Decon Process: 3 CHAMBER  
Disposal Methods: WET 2 PLY POLY BAG  
Facility Usage: Not reported  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: Not reported  
Owner Name: HANOVER MALL PARTNERS, LP  
Owner Address: 1775 WASHINGTON ST  
Owner City: HANOVER  
Owner State: MA  
On Site Manager Name: Not reported  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: Not reported  
Transporter Name: SERVICE TRANS GRP  
Transporter Address: 58 PYLES LN  
Transporter City: NEW CASTLE  
Transporter State: DE  
Final Site: 47  
Certified Name: JAMES OCONNOR  
Cert Sign Date: 01/03/2005  
Certified Company: Not reported  
Certified Phone: Not reported  
Entered\_by: swhite

Name: SEARS STORE #1243/SEARS AUTO #6144  
Address: 1775 WASHINGTON STREET  
City,State,Zip: HANOVER, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 01/19/2010  
End Date: 01/21/2010  
Date Entered: Not reported  
Entry Date: 01/06/2010  
Quantity Material Removed SF: 150.00  
Quantity Material Removed LF: .00  
Project Description: Trns  
AR Tracking ID: 121678

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Super Lic Number: AS001512  
Monitor Lic Number: AM000123  
Lab Lic Number: AA000056  
Year: 2010  
Sticker Number: 100099876  
Form Type: ANF-001  
Fee Status: Fifty  
Facility Phone: Not reported  
Sub Town: Not reported  
Worksite: VARIOUS LOCATIONS  
Occupied: 0  
Contractor: AC000396  
Contract Type: WRITTEN  
Hours: Week days: 9PM-6AM Week end:  
Project Type: Renv  
Abatement Process: NONFRIABLE SPOT ABATEMENT OF VAT  
Location: Indoors  
Decon Process: STANDARD 3 STAGE OSHA DECON  
Disposal Methods: ACM TO BE ADEQUATELY WETTED & PACKAGED IN 6-MIL DOUBLE LAYERED BAGS.  
Facility Usage: RETAIL STORE  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 5  
Owner Name: SEARS HOLDINGS MANAGEMENT CORPORATION  
Owner Address: 333 BEVERLY ROAD  
Owner City: HOFFMAN ESTATES  
Owner State: MA  
On Site Manager Name: Not reported  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: Not reported  
Transporter Name: PROJECT DEVELOPMENT GROUP  
Transporter Address: 1386 BEULAH ROAD  
Transporter City: PITTSBURGH  
Transporter State: Not reported  
Final Site: 41  
Certified Name: JESSICA BUSCH  
Cert Sign Date: 01/06/2010  
Certified Company: PROJECT DEVELOPMENT GRO  
Certified Phone: 5707887352  
Entered\_by: Not reported

**GWDP:**

Name: HANOVER CROSSING  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA  
Site Id: 184  
Region Id: 4  
Permit Num/Renewal Num (Unique SiteId): 184-5M1  
Basin: SCOA  
Metered Flow Of Discharge/GPD According To WPP: 130000  
Decode for Region ID: Southeast  
Decode for Ftype: Sanitary Discharge

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

HW GEN:

Name: SEARS AUTO CENTER 0006144  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MA5000002949  
RCRA Generator Status: VSQG  
State Generator Status: LQG-MA

Name: MACYS HANOVER 184  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAC300007671  
RCRA Generator Status: VSQG  
State Generator Status: VQG-MA

Name: MACYS HANOVER HOME 184B  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAC300007697  
RCRA Generator Status: VSQG  
State Generator Status: VQG-MA

Name: PETCO STORE 2707  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAC300093531  
RCRA Generator Status: VSQG  
State Generator Status: Not reported

Name: PREP HANOVER REAL ESTATE HANOVER MALL  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAC300013901  
RCRA Generator Status: VSQG  
State Generator Status: LQG-MA

Name: DICKS SPORTING GOODS 1027  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA 02339  
EPA Id: MAC300108032  
RCRA Generator Status: VSQG  
State Generator Status: VQG-MA

NPDES:

Name: HANOVER CROSSING  
Address: 1775 WASHINGTON ST  
City,State,Zip: HANOVER, MA  
Region: SE  
Permit #: 184  
Permit Issued: 02/14/2019  
Permit Expires: 05/22/2023  
Permittee Name: Hanover Crossing POWTF Owners Association  
Permit Contact: Lloyd Sova  
Permittee Address: 5905 E. Galbraith Road, Suite 1000  
Permittee City: Cincinatti  
Permittee State: Cincinatti

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MACYS HANOVER 184 (Continued)**

**S101041698**

Permittee Zip: 45236  
Design Flow: 130000



Count: 9 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HANOVER	S121394455	VACANT BUILDING/FORMER CARDINAL CU	369 WASHINGTON STREET		SHWS, LUST, RELEASE
HANOVER	S104774409	RTE 53	WASHINGTON ST	02339	SHWS, RELEASE
HANOVER	S104847623	POLE 67A2	WASHINGTON ST	02339	SHWS, RELEASE
HANOVER	S104000719	POLE 195	WEBSTER ST	02339	SHWS, RELEASE
NORWELL	S128621428	15 AND 19 HIGH STREET	15 & 19 HIGH STREET	02061	SHWS, RELEASE
NORWELL	S126024937	RTE 3 NORTH AT MILE MARKER 29.8	ROUTE 3 NORTH BOUND		SHWS, RELEASE
NORWELL	S122424503	DOT,D.W. WHITE CONSTRUCTION PROJEC	RTE 3 NORTH BETWEEN EXIT 13/14	02061	SHWS, RELEASE
NORWELL	S114965604	ROADWAY	INT. HIGH ST + LONGWATER DRIVE	02061	SHWS, RELEASE
NORWELL	S113882754	RT 53 SOUTH ROADWAY	VIC 170 WASHINGTON STREET	02061	SHWS, RELEASE

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## **STANDARD ENVIRONMENTAL RECORDS**

### ***Lists of Federal NPL (Superfund) sites***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 06/22/2023	Source: EPA
Date Data Arrived at EDR: 07/06/2023	Telephone: N/A
Date Made Active in Reports: 07/24/2023	Last EDR Contact: 09/01/2023
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/09/2023
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 06/22/2023	Source: EPA
Date Data Arrived at EDR: 07/06/2023	Telephone: N/A
Date Made Active in Reports: 07/24/2023	Last EDR Contact: 09/01/2023
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/09/2023
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991  
Date Data Arrived at EDR: 02/02/1994  
Date Made Active in Reports: 03/30/1994  
Number of Days to Update: 56

Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## ***Lists of Federal Delisted NPL sites***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 06/22/2023  
Date Data Arrived at EDR: 07/06/2023  
Date Made Active in Reports: 07/24/2023  
Number of Days to Update: 18

Source: EPA  
Telephone: N/A  
Last EDR Contact: 09/01/2023  
Next Scheduled EDR Contact: 10/09/2023  
Data Release Frequency: Quarterly

## ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2023  
Date Data Arrived at EDR: 03/28/2023  
Date Made Active in Reports: 05/30/2023  
Number of Days to Update: 63

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 06/23/2023  
Next Scheduled EDR Contact: 10/09/2023  
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMs by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/22/2023  
Date Data Arrived at EDR: 07/06/2023  
Date Made Active in Reports: 07/24/2023  
Number of Days to Update: 18

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 09/01/2023  
Next Scheduled EDR Contact: 10/23/2023  
Data Release Frequency: Quarterly

## ***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 06/22/2023	Source: EPA
Date Data Arrived at EDR: 07/06/2023	Telephone: 800-424-9346
Date Made Active in Reports: 07/24/2023	Last EDR Contact: 09/01/2023
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/23/2023
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 07/24/2023	Source: EPA
Date Data Arrived at EDR: 07/31/2023	Telephone: 800-424-9346
Date Made Active in Reports: 08/14/2023	Last EDR Contact: 07/31/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA TSD facilities***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 07/24/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/31/2023	Telephone: (888) 372-7341
Date Made Active in Reports: 08/14/2023	Last EDR Contact: 07/31/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA generators***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 07/24/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/31/2023	Telephone: (888) 372-7341
Date Made Active in Reports: 08/14/2023	Last EDR Contact: 07/31/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 07/24/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/31/2023	Telephone: (888) 372-7341
Date Made Active in Reports: 08/14/2023	Last EDR Contact: 07/31/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

## RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 07/24/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/31/2023	Telephone: (888) 372-7341
Date Made Active in Reports: 08/14/2023	Last EDR Contact: 07/31/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

## ***Federal institutional controls / engineering controls registries***

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/25/2023	Source: Department of the Navy
Date Data Arrived at EDR: 05/31/2023	Telephone: 843-820-7326
Date Made Active in Reports: 07/24/2023	Last EDR Contact: 08/02/2023
Number of Days to Update: 54	Next Scheduled EDR Contact: 11/20/2023
	Data Release Frequency: Varies

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/22/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/23/2023	Telephone: 703-603-0695
Date Made Active in Reports: 07/24/2023	Last EDR Contact: 08/21/2023
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/04/2023
	Data Release Frequency: Varies

### US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/22/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/23/2023	Telephone: 703-603-0695
Date Made Active in Reports: 07/24/2023	Last EDR Contact: 08/21/2023
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/04/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **Federal ERNS list**

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/12/2023	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 06/20/2023	Telephone: 202-267-2180
Date Made Active in Reports: 08/14/2023	Last EDR Contact: 06/20/2023
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

## **Lists of state- and tribal hazardous waste facilities**

### SHWS: Site Transition List

Contains information on releases of oil and hazardous materials that have been reported to DEP.

Date of Government Version: 04/05/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/06/2023	Telephone: 617-292-5990
Date Made Active in Reports: 06/22/2023	Last EDR Contact: 07/07/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Quarterly

## **Lists of state and tribal landfills and solid waste disposal facilities**

### SWF/LF: Solid Waste Facility Database/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/02/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/03/2022	Telephone: 617-292-5989
Date Made Active in Reports: 07/22/2022	Last EDR Contact: 06/26/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 10/09/2023
	Data Release Frequency: Annually

### LF PROFILES: Landfill Profiles Listing

This spreadsheet describes landfills that have actively accepted waste or have closed under MassDEP Solid Waste Regulations first adopted in 1971 (310 CMR 16.00 and 310 CMR 19.00). The list does not include landfills that closed before 1971 (and which never had a MassDEP permit or approval), or for which agency data is incomplete.

Date of Government Version: 07/01/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 10/27/2015	Telephone: 617-292-5868
Date Made Active in Reports: 12/14/2015	Last EDR Contact: 06/29/2023
Number of Days to Update: 48	Next Scheduled EDR Contact: 10/09/2023
	Data Release Frequency: Varies

## **Lists of state and tribal leaking storage tanks**

### LAST: Leaking Aboveground Storage Tank Sites

Sites within the Releases Database that have a AST listed as its source.

Date of Government Version: 04/05/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/06/2023	Telephone: 617-292-5500
Date Made Active in Reports: 06/22/2023	Last EDR Contact: 07/07/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST: Leaking Underground Storage Tank Listing

Sites within the Leaking Underground Storage Tank Listing that have a UST listed as its source.

Date of Government Version: 04/05/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/06/2023	Telephone: 617-292-5990
Date Made Active in Reports: 06/22/2023	Last EDR Contact: 07/07/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Quarterly

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2023	Source: EPA Region 10
Date Data Arrived at EDR: 05/09/2023	Telephone: 206-553-2857
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 07/17/2023
Number of Days to Update: 66	Next Scheduled EDR Contact: 10/30/2023
	Data Release Frequency: Varies

## INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/20/2023	Source: EPA Region 1
Date Data Arrived at EDR: 05/09/2023	Telephone: 617-918-1313
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 07/17/2023
Number of Days to Update: 66	Next Scheduled EDR Contact: 10/30/2023
	Data Release Frequency: Varies

## INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/20/2023	Source: EPA Region 4
Date Data Arrived at EDR: 05/09/2023	Telephone: 404-562-8677
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 66	Next Scheduled EDR Contact: 10/30/2023
	Data Release Frequency: Varies

## INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/25/2023	Source: EPA Region 7
Date Data Arrived at EDR: 05/09/2023	Telephone: 913-551-7003
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 07/17/2023
Number of Days to Update: 66	Next Scheduled EDR Contact: 10/30/2023
	Data Release Frequency: Varies

## INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/19/2023	Source: EPA Region 8
Date Data Arrived at EDR: 05/09/2023	Telephone: 303-312-6271
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 07/17/2023
Number of Days to Update: 66	Next Scheduled EDR Contact: 10/30/2023
	Data Release Frequency: Varies

## INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/19/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/09/2023	Telephone: 415-972-3372
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 07/17/2023
Number of Days to Update: 66	Next Scheduled EDR Contact: 10/30/2023
	Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/14/2023	Source: EPA, Region 5
Date Data Arrived at EDR: 05/09/2023	Telephone: 312-886-7439
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 07/17/2023
Number of Days to Update: 66	Next Scheduled EDR Contact: 10/30/2023
	Data Release Frequency: Varies

## INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/26/2023	Source: EPA Region 6
Date Data Arrived at EDR: 05/09/2023	Telephone: 214-665-6597
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 07/17/2023
Number of Days to Update: 66	Next Scheduled EDR Contact: 10/30/2023
	Data Release Frequency: Varies

### ***Lists of state and tribal registered storage tanks***

#### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/08/2023	Source: FEMA
Date Data Arrived at EDR: 03/09/2023	Telephone: 202-646-5797
Date Made Active in Reports: 05/30/2023	Last EDR Contact: 06/27/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Varies

#### UST: Summary Listing of all the Tanks Registered in the State of Massachusetts

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 07/06/2023	Source: Department of Fire Services, Office of the Public Safety
Date Data Arrived at EDR: 07/10/2023	Telephone: 617-556-1035
Date Made Active in Reports: 08/31/2023	Last EDR Contact: 07/06/2023
Number of Days to Update: 52	Next Scheduled EDR Contact: 10/23/2023
	Data Release Frequency: Quarterly

#### AST: Aboveground Storage Tank Database Registered Aboveground Storage Tanks.

Date of Government Version: 03/24/2023	Source: Department of Public Safety
Date Data Arrived at EDR: 04/13/2023	Telephone: 617-556-1035
Date Made Active in Reports: 06/30/2023	Last EDR Contact: 08/22/2023
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/23/2023
	Data Release Frequency: No Update Planned

#### AST 2: Aboveground Storage Tanks Aboveground storage tanks

Date of Government Version: 04/10/2023	Source: Department of Fire Services
Date Data Arrived at EDR: 04/13/2023	Telephone: 978-567-3181
Date Made Active in Reports: 06/30/2023	Last EDR Contact: 07/06/2023
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/23/2023
	Data Release Frequency: Varies

#### INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/19/2023  
Date Data Arrived at EDR: 05/09/2023  
Date Made Active in Reports: 07/14/2023  
Number of Days to Update: 66

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 07/17/2023  
Next Scheduled EDR Contact: 10/30/2023  
Data Release Frequency: Varies

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/20/2023  
Date Data Arrived at EDR: 05/09/2023  
Date Made Active in Reports: 07/14/2023  
Number of Days to Update: 66

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 07/17/2023  
Next Scheduled EDR Contact: 10/30/2023  
Data Release Frequency: Varies

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2023  
Date Data Arrived at EDR: 05/09/2023  
Date Made Active in Reports: 07/14/2023  
Number of Days to Update: 66

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 07/17/2023  
Next Scheduled EDR Contact: 10/30/2023  
Data Release Frequency: Varies

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/14/2023  
Date Data Arrived at EDR: 05/09/2023  
Date Made Active in Reports: 07/14/2023  
Number of Days to Update: 66

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 07/17/2023  
Next Scheduled EDR Contact: 10/30/2023  
Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/26/2023  
Date Data Arrived at EDR: 05/09/2023  
Date Made Active in Reports: 07/14/2023  
Number of Days to Update: 66

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 07/17/2023  
Next Scheduled EDR Contact: 10/30/2023  
Data Release Frequency: Varies

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/20/2023  
Date Data Arrived at EDR: 05/09/2023  
Date Made Active in Reports: 07/14/2023  
Number of Days to Update: 66

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 07/17/2023  
Next Scheduled EDR Contact: 10/30/2023  
Data Release Frequency: Varies

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/25/2023  
Date Data Arrived at EDR: 05/09/2023  
Date Made Active in Reports: 07/14/2023  
Number of Days to Update: 66

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 07/17/2023  
Next Scheduled EDR Contact: 10/30/2023  
Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2023  
Date Data Arrived at EDR: 05/09/2023  
Date Made Active in Reports: 07/14/2023  
Number of Days to Update: 66

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 07/17/2023  
Next Scheduled EDR Contact: 10/30/2023  
Data Release Frequency: Varies

## ***State and tribal institutional control / engineering control registries***

### INST CONTROL: Sites With Activity and Use Limitation

Activity and Use Limitations establish limits and conditions on the future use of contaminated property, and therefore allow cleanups to be tailored to these uses.

Date of Government Version: 04/05/2023  
Date Data Arrived at EDR: 04/06/2023  
Date Made Active in Reports: 06/22/2023  
Number of Days to Update: 77

Source: Department of Environmental Protection  
Telephone: 617-292-5990  
Last EDR Contact: 07/07/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: Quarterly

## ***Lists of state and tribal voluntary cleanup sites***

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015  
Date Data Arrived at EDR: 09/29/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 142

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 09/12/2023  
Next Scheduled EDR Contact: 01/01/2024  
Data Release Frequency: Varies

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 07/08/2021  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

## ***Lists of state and tribal brownfield sites***

### BROWNFIELDS: Completed Brownfields Covenants Listing

Under Massachusetts law, M.G.L. c. 21E is the statute that governs the cleanup of releases of oil and/or hazardous material to the environment. The Brownfields Act of 1998 amended M.G.L. c. 21E by establishing significant liability relief and financial incentives to spur the redevelopment of brownfields, while ensuring that the Commonwealth's environmental standards are met. Most brownfields are redeveloped with the benefit of liability protections that operate automatically under M.G.L. c. 21E.

Date of Government Version: 04/05/2017  
Date Data Arrived at EDR: 08/03/2017  
Date Made Active in Reports: 10/10/2017  
Number of Days to Update: 68

Source: Office of the Attorney General  
Telephone: 617-963-2423  
Last EDR Contact: 07/27/2023  
Next Scheduled EDR Contact: 11/06/2023  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## BROWNFIELDS 2: Potential Brownfields Listing

A listing of potential brownfields site locations in the state.

Date of Government Version: 12/03/2019  
Date Data Arrived at EDR: 01/29/2021  
Date Made Active in Reports: 04/21/2021  
Number of Days to Update: 82

Source: Department of Environmental Protection  
Telephone: 617-556-1007  
Last EDR Contact: 07/27/2023  
Next Scheduled EDR Contact: 11/06/2023  
Data Release Frequency: Varies

## ADDITIONAL ENVIRONMENTAL RECORDS

### ***Local Brownfield lists***

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 04/06/2023  
Date Data Arrived at EDR: 04/13/2023  
Date Made Active in Reports: 04/19/2023  
Number of Days to Update: 6

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 08/30/2023  
Next Scheduled EDR Contact: 12/25/2023  
Data Release Frequency: Semi-Annually

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

#### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 07/19/2023  
Next Scheduled EDR Contact: 11/06/2023  
Data Release Frequency: Varies

#### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 07/11/2023  
Next Scheduled EDR Contact: 10/30/2023  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014

Date Data Arrived at EDR: 08/06/2014

Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service

Telephone: 301-443-1452

Last EDR Contact: 07/27/2023

Next Scheduled EDR Contact: 11/13/2023

Data Release Frequency: Varies

## Local Lists of Hazardous waste / Contaminated Sites

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/22/2023

Date Data Arrived at EDR: 05/23/2023

Date Made Active in Reports: 07/10/2023

Number of Days to Update: 48

Source: Drug Enforcement Administration

Telephone: 202-307-1000

Last EDR Contact: 08/21/2023

Next Scheduled EDR Contact: 12/04/2023

Data Release Frequency: No Update Planned

### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/22/2023

Date Data Arrived at EDR: 05/23/2023

Date Made Active in Reports: 07/10/2023

Number of Days to Update: 48

Source: Drug Enforcement Administration

Telephone: 202-307-1000

Last EDR Contact: 08/21/2023

Next Scheduled EDR Contact: 12/04/2023

Data Release Frequency: Quarterly

## Local Land Records

### LIENS: Liens Information Listing

A listing of environmental liens.

Date of Government Version: 03/07/2018

Date Data Arrived at EDR: 03/09/2018

Date Made Active in Reports: 06/21/2018

Number of Days to Update: 104

Source: Department of Environmental Protection

Telephone: 617-292-5628

Last EDR Contact: 08/09/2023

Next Scheduled EDR Contact: 11/27/2023

Data Release Frequency: Varies

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 06/22/2023

Date Data Arrived at EDR: 07/06/2023

Date Made Active in Reports: 07/24/2023

Number of Days to Update: 18

Source: Environmental Protection Agency

Telephone: 202-564-6023

Last EDR Contact: 09/01/2023

Next Scheduled EDR Contact: 10/09/2023

Data Release Frequency: Semi-Annually

## Records of Emergency Release Reports

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/19/2023	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/21/2023	Telephone: 202-366-4555
Date Made Active in Reports: 05/30/2023	Last EDR Contact: 06/20/2023
Number of Days to Update: 70	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

## RELEASE: Reportable Releases

Contains information on all releases of oil and hazardous materials that have been reported to DEP

Date of Government Version: 04/05/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/06/2023	Telephone: 617-292-5990
Date Made Active in Reports: 06/22/2023	Last EDR Contact: 07/07/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Quarterly

## MA SPILLS: Historical Spill List

The Spills Database was the release notification tracking system for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the Reportable Releases or Sites Transition List databases.

Date of Government Version: 09/30/1993	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/03/2003	Telephone: 617-292-5720
Date Made Active in Reports: 12/31/2003	Last EDR Contact: 12/03/2003
Number of Days to Update: 28	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/11/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/08/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/10/1998	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/05/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 61	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## **Other Ascertainable Records**

### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/24/2023  
Date Data Arrived at EDR: 07/31/2023  
Date Made Active in Reports: 08/14/2023  
Number of Days to Update: 14

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 07/31/2023  
Next Scheduled EDR Contact: 10/02/2023  
Data Release Frequency: Quarterly

## FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/08/2023  
Date Data Arrived at EDR: 05/16/2023  
Date Made Active in Reports: 07/10/2023  
Number of Days to Update: 55

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 08/15/2023  
Next Scheduled EDR Contact: 11/27/2023  
Data Release Frequency: Varies

## DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021  
Date Data Arrived at EDR: 07/13/2021  
Date Made Active in Reports: 03/09/2022  
Number of Days to Update: 239

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 07/10/2023  
Next Scheduled EDR Contact: 10/23/2023  
Data Release Frequency: Varies

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018  
Date Data Arrived at EDR: 04/11/2018  
Date Made Active in Reports: 11/06/2019  
Number of Days to Update: 574

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 07/05/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: N/A

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021  
Date Data Arrived at EDR: 02/03/2023  
Date Made Active in Reports: 02/10/2023  
Number of Days to Update: 7

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 08/01/2023  
Next Scheduled EDR Contact: 11/20/2023  
Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/19/2023  
Date Data Arrived at EDR: 06/20/2023  
Date Made Active in Reports: 08/14/2023  
Number of Days to Update: 55

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 06/20/2023  
Next Scheduled EDR Contact: 10/02/2023  
Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 07/31/2023
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/13/2023
	Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 08/03/2023
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/13/2023
	Data Release Frequency: Varies

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020	Source: EPA
Date Data Arrived at EDR: 06/14/2022	Telephone: 202-260-5521
Date Made Active in Reports: 03/24/2023	Last EDR Contact: 06/16/2023
Number of Days to Update: 283	Next Scheduled EDR Contact: 09/25/2023
	Data Release Frequency: Every 4 Years

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2021	Source: EPA
Date Data Arrived at EDR: 02/16/2023	Telephone: 202-566-0250
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 08/18/2023
Number of Days to Update: 75	Next Scheduled EDR Contact: 11/27/2023
	Data Release Frequency: Annually

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 04/17/2023	Source: EPA
Date Data Arrived at EDR: 04/18/2023	Telephone: 202-564-4203
Date Made Active in Reports: 07/10/2023	Last EDR Contact: 07/18/2023
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/30/2023
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 06/22/2023	Source: EPA
Date Data Arrived at EDR: 07/06/2023	Telephone: 703-416-0223
Date Made Active in Reports: 07/24/2023	Last EDR Contact: 09/01/2023
Number of Days to Update: 18	Next Scheduled EDR Contact: 12/11/2023
	Data Release Frequency: Annually

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/04/2022	Telephone: 202-564-8600
Date Made Active in Reports: 05/10/2022	Last EDR Contact: 06/12/2023
Number of Days to Update: 6	Next Scheduled EDR Contact: 10/30/2023
	Data Release Frequency: Varies

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 06/22/2023	Source: EPA
Date Data Arrived at EDR: 07/06/2023	Telephone: 202-564-6023
Date Made Active in Reports: 07/24/2023	Last EDR Contact: 09/01/2023
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/13/2023
	Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023	Source: EPA
Date Data Arrived at EDR: 04/04/2023	Telephone: 202-566-0500
Date Made Active in Reports: 06/09/2023	Last EDR Contact: 07/07/2023
Number of Days to Update: 66	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/27/2023
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Quarterly

**FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

**FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

## MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/15/2023	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/21/2023	Telephone: 301-415-7169
Date Made Active in Reports: 05/30/2023	Last EDR Contact: 07/12/2023
Number of Days to Update: 70	Next Scheduled EDR Contact: 10/30/2023
	Data Release Frequency: Quarterly

## COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2021	Source: Department of Energy
Date Data Arrived at EDR: 04/14/2023	Telephone: 202-586-8719
Date Made Active in Reports: 07/10/2023	Last EDR Contact: 09/01/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 12/11/2023
	Data Release Frequency: Varies

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 08/28/2023
Number of Days to Update: 251	Next Scheduled EDR Contact: 12/11/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 08/03/2023
Number of Days to Update: 96	Next Scheduled EDR Contact: 11/13/2023
	Data Release Frequency: Varies

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 06/22/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/09/2023
	Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 01/28/2020	Telephone: 202-366-4595
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 07/25/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/06/2023
	Data Release Frequency: Quarterly

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/31/2023  
Date Data Arrived at EDR: 04/20/2023  
Date Made Active in Reports: 07/10/2023  
Number of Days to Update: 81

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 06/27/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021  
Date Data Arrived at EDR: 03/09/2023  
Date Made Active in Reports: 03/20/2023  
Number of Days to Update: 11

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 07/31/2023  
Next Scheduled EDR Contact: 10/02/2023  
Data Release Frequency: Biennially

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/14/2015  
Date Made Active in Reports: 01/10/2017  
Number of Days to Update: 546

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 07/05/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: Semi-Annually

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023  
Date Data Arrived at EDR: 03/03/2023  
Date Made Active in Reports: 06/09/2023  
Number of Days to Update: 98

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 07/26/2023  
Next Scheduled EDR Contact: 11/13/2023  
Data Release Frequency: Varies

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019  
Date Data Arrived at EDR: 11/15/2019  
Date Made Active in Reports: 01/28/2020  
Number of Days to Update: 74

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 08/10/2023  
Next Scheduled EDR Contact: 11/27/2023  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 06/22/2023  
Date Data Arrived at EDR: 07/06/2023  
Date Made Active in Reports: 07/24/2023  
Number of Days to Update: 18

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 09/01/2023  
Next Scheduled EDR Contact: 10/09/2023  
Data Release Frequency: Varies

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 04/03/2023  
Date Data Arrived at EDR: 04/04/2023  
Date Made Active in Reports: 06/09/2023  
Number of Days to Update: 66

Source: DOL, Mine Safety & Health Admi  
Telephone: 202-693-9424  
Last EDR Contact: 07/05/2023  
Next Scheduled EDR Contact: 11/20/2023  
Data Release Frequency: Quarterly

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/01/2023  
Date Data Arrived at EDR: 05/24/2023  
Date Made Active in Reports: 07/24/2023  
Number of Days to Update: 61

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 08/22/2023  
Next Scheduled EDR Contact: 12/04/2023  
Data Release Frequency: Semi-Annually

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022  
Date Data Arrived at EDR: 02/24/2023  
Date Made Active in Reports: 05/17/2023  
Number of Days to Update: 82

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 08/24/2023  
Next Scheduled EDR Contact: 12/04/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 08/24/2023
Number of Days to Update: 97	Next Scheduled EDR Contact: 12/04/2023
	Data Release Frequency: Varies

## ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/13/2023	Source: Department of Interior
Date Data Arrived at EDR: 06/14/2023	Telephone: 202-208-2609
Date Made Active in Reports: 08/14/2023	Last EDR Contact: 09/12/2023
Number of Days to Update: 61	Next Scheduled EDR Contact: 12/18/2023
	Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/04/2023	Source: EPA
Date Data Arrived at EDR: 05/25/2023	Telephone: (617) 918-1111
Date Made Active in Reports: 07/24/2023	Last EDR Contact: 08/29/2023
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/11/2023
	Data Release Frequency: Quarterly

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/25/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2023	Telephone: 202-564-2280
Date Made Active in Reports: 06/09/2023	Last EDR Contact: 06/29/2023
Number of Days to Update: 70	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Quarterly

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 202-564-0527
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 08/15/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 12/04/2023
	Data Release Frequency: Varies

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/09/2021  
Date Data Arrived at EDR: 10/20/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 82

Source: Department of Defense  
Telephone: 703-704-1564  
Last EDR Contact: 07/06/2023  
Next Scheduled EDR Contact: 10/23/2023  
Data Release Frequency: Varies

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/15/2023  
Date Data Arrived at EDR: 05/17/2023  
Date Made Active in Reports: 07/10/2023  
Number of Days to Update: 54

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 08/15/2023  
Next Scheduled EDR Contact: 11/27/2023  
Data Release Frequency: Quarterly

## PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 06/07/2023  
Date Data Arrived at EDR: 06/08/2023  
Date Made Active in Reports: 06/09/2023  
Number of Days to Update: 1

Source: Environmental Protection Agency  
Telephone: 703-603-8895  
Last EDR Contact: 07/05/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: Varies

## PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 03/30/2023  
Date Data Arrived at EDR: 03/30/2023  
Date Made Active in Reports: 04/07/2023  
Number of Days to Update: 8

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 07/05/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: Varies

## PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 03/30/2023  
Date Data Arrived at EDR: 03/30/2023  
Date Made Active in Reports: 06/09/2023  
Number of Days to Update: 71

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 07/05/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: Varies

## PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST\_HANDLING\_INSTR), Non-hazardous waste description (NON\_HAZ\_WASTE\_DESCRIPTION), DOT printed information (DOT\_PRINTED\_INFORMATION), Waste line handling instructions (WASTE\_LINE\_HANDLING\_INSTR), Waste residue comments (WASTE\_RESIDUE\_COMMENTS).

Date of Government Version: 03/30/2023  
Date Data Arrived at EDR: 03/30/2023  
Date Made Active in Reports: 05/02/2023  
Number of Days to Update: 33

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 07/05/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020	Source: Department of Health & Human Services
Date Data Arrived at EDR: 03/17/2021	Telephone: 202-741-5770
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 07/19/2023
Number of Days to Update: 601	Next Scheduled EDR Contact: 11/06/2023
	Data Release Frequency: Varies

## PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 07/05/2023
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Varies

## PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 04/07/2023	Last EDR Contact: 07/05/2023
Number of Days to Update: 8	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Varies

## PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 04/03/2023	Last EDR Contact: 07/05/2023
Number of Days to Update: 4	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Varies

## PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facility's name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/30/2023  
Date Data Arrived at EDR: 03/30/2023  
Date Made Active in Reports: 04/03/2023  
Number of Days to Update: 4

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 07/05/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: Varies

## PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration's document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 03/30/2023  
Date Data Arrived at EDR: 03/30/2023  
Date Made Active in Reports: 04/03/2023  
Number of Days to Update: 4

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 07/05/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: Varies

## AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 04/27/2023  
Date Data Arrived at EDR: 04/27/2023  
Date Made Active in Reports: 05/02/2023  
Number of Days to Update: 5

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 07/06/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: Varies

## PFAS: PFAS Contaminated Sites Listing

Detection of Per- and Polyfluoroalkyl Substances (PFAS) in drinking water.

Date of Government Version: 06/01/2023  
Date Data Arrived at EDR: 06/26/2023  
Date Made Active in Reports: 07/11/2023  
Number of Days to Update: 15

Source: Department of Environmental Protection  
Telephone: 617-292-6770  
Last EDR Contact: 06/22/2023  
Next Scheduled EDR Contact: 10/09/2023  
Data Release Frequency: Varies

## AIRS: Permitted Facilities Listing

A listing of Air Quality permit applications.

Date of Government Version: 04/07/2023  
Date Data Arrived at EDR: 04/11/2023  
Date Made Active in Reports: 06/22/2023  
Number of Days to Update: 72

Source: Department of Environmental Protection  
Telephone: 617-292-5789  
Last EDR Contact: 07/06/2023  
Next Scheduled EDR Contact: 10/23/2023  
Data Release Frequency: Varies

## ASBESTOS: Asbestos Notification Listing

Asbestos sites

Date of Government Version: 05/16/2023  
Date Data Arrived at EDR: 05/17/2023  
Date Made Active in Reports: 05/25/2023  
Number of Days to Update: 8

Source: Department of Environmental Protection  
Telephone: 617-292-5982  
Last EDR Contact: 08/09/2023  
Next Scheduled EDR Contact: 11/27/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## DRYCLEANERS: Regulated Drycleaning Facilities

A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

Date of Government Version: 04/19/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/20/2023	Telephone: 617-292-5633
Date Made Active in Reports: 05/25/2023	Last EDR Contact: 07/06/2023
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/23/2023
	Data Release Frequency: Varies

## ENFORCEMENT: Enforcement Action Cases

A listing of enforcement action cases tracked by Department of Environmental Protection programs, including Solid Waste and Hazardous Waste.

Date of Government Version: 04/05/2023	Source: Department of Environmental Quality
Date Data Arrived at EDR: 04/06/2023	Telephone: 617-292-5979
Date Made Active in Reports: 06/22/2023	Last EDR Contact: 07/06/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 10/23/2023
	Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

Information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/01/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/23/2010	Telephone: 617-292-5970
Date Made Active in Reports: 02/03/2011	Last EDR Contact: 08/30/2023
Number of Days to Update: 42	Next Scheduled EDR Contact: 12/18/2023
	Data Release Frequency: Varies

## Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tanks. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 07/06/2023	Source: Office of State Fire Marshal
Date Data Arrived at EDR: 07/10/2023	Telephone: 978-567-3100
Date Made Active in Reports: 08/31/2023	Last EDR Contact: 07/06/2023
Number of Days to Update: 52	Next Scheduled EDR Contact: 10/23/2023
	Data Release Frequency: Varies

## Financial Assurance 3: Financial Assurance Information listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 10/24/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/12/2023	Telephone: 617-292-5970
Date Made Active in Reports: 03/07/2023	Last EDR Contact: 06/27/2023
Number of Days to Update: 54	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Varies

## GWDP: Ground Water Discharge Permits

The Ground Water Discharge Permits datalayer (formerly known as Groundwater Discharge Points) is a statewide point dataset containing approximate locations of permitted discharges to groundwater.

Date of Government Version: 03/30/2023	Source: MassGIS
Date Data Arrived at EDR: 04/25/2023	Telephone: 617-556-1150
Date Made Active in Reports: 07/14/2023	Last EDR Contact: 07/27/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/06/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## HW GEN: List of Massachusetts Hazardous Waste Generators

Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

Date of Government Version: 06/09/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 06/15/2023	Telephone: 617-292-5500
Date Made Active in Reports: 09/07/2023	Last EDR Contact: 06/15/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Semi-Annually

## MERCURY: Mercury Product Recycling Drop-Off Locations Listing

A listing of locations, collecting and recycling for mercury-added products. Mercury is toxic to the human nervous system, as well as fish and animals. Mercury can enter the body either through skin absorption or through inhalation of mercury vapors. At room temperature, small beads of mercury will vaporize.

Date of Government Version: 09/26/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/26/2022	Telephone: 617-292-5632
Date Made Active in Reports: 12/09/2022	Last EDR Contact: 08/09/2023
Number of Days to Update: 74	Next Scheduled EDR Contact: 11/27/2023
	Data Release Frequency: Varies

## NPDES: NPDES Permit Listing

Listing of treatment plants in Massachusetts that hold permits to discharge to groundwater.

Date of Government Version: 12/16/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/07/2023	Telephone: 508-767-2781
Date Made Active in Reports: 02/14/2023	Last EDR Contact: 08/10/2023
Number of Days to Update: 7	Next Scheduled EDR Contact: 11/20/2023
	Data Release Frequency: Varies

## TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report

Date of Government Version: 12/31/2019	Source: Massachusetts Emergency Management Agency
Date Data Arrived at EDR: 07/19/2021	Telephone: 508-820-2019
Date Made Active in Reports: 08/17/2021	Last EDR Contact: 08/02/2023
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/23/2023
	Data Release Frequency: Annually

## TSD: TSD Facility

List of Licensed Hazardous Waste Treatment, Storage Disposal Facilities (TSDFs) in Massachusetts.

Date of Government Version: 06/09/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 06/15/2023	Telephone: 617-292-5580
Date Made Active in Reports: 09/07/2023	Last EDR Contact: 06/15/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Varies

## UIC: Underground Injection Control Listing

A list of UIC registration data and their locations

Date of Government Version: 02/13/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/15/2023	Telephone: 617-566-1172
Date Made Active in Reports: 05/11/2023	Last EDR Contact: 08/02/2023
Number of Days to Update: 85	Next Scheduled EDR Contact: 11/20/2023
	Data Release Frequency: Varies

## BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/16/2023  
Date Data Arrived at EDR: 07/18/2023  
Date Made Active in Reports: 08/28/2023  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: 202-564-4700  
Last EDR Contact: 07/18/2023  
Next Scheduled EDR Contact: 10/30/2023  
Data Release Frequency: Varies

## PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 02/05/2015  
Date Made Active in Reports: 03/06/2015  
Number of Days to Update: 29

Source: EPA  
Telephone: 202-564-2497  
Last EDR Contact: 06/27/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: Varies

## MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 08/23/2022  
Date Data Arrived at EDR: 11/22/2022  
Date Made Active in Reports: 02/28/2023  
Number of Days to Update: 98

Source: USGS  
Telephone: 703-648-6533  
Last EDR Contact: 08/24/2023  
Next Scheduled EDR Contact: 12/04/2023  
Data Release Frequency: Varies

## PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 06/07/2023  
Date Data Arrived at EDR: 06/08/2023  
Date Made Active in Reports: 06/09/2023  
Number of Days to Update: 1

Source: Environmental Protection Agency  
Telephone: 202-566-0250  
Last EDR Contact: 07/05/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: Varies

## PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011  
Date Data Arrived at EDR: 08/05/2011  
Date Made Active in Reports: 09/29/2011  
Number of Days to Update: 55

Source: EPA, Office of Water  
Telephone: 202-564-2496  
Last EDR Contact: 06/27/2023  
Next Scheduled EDR Contact: 10/16/2023  
Data Release Frequency: No Update Planned

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### *Exclusive Recovered Govt. Archives*

#### RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/24/2013  
Number of Days to Update: 176

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/24/2013  
Number of Days to Update: 176

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/16/2022	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 11/16/2022	Telephone: 860-424-3375
Date Made Active in Reports: 02/06/2023	Last EDR Contact: 08/08/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/20/2023
	Data Release Frequency: No Update Planned

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/10/2019	Telephone: N/A
Date Made Active in Reports: 05/16/2019	Last EDR Contact: 06/27/2023
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 10/29/2021	Telephone: 518-402-8651
Date Made Active in Reports: 01/19/2022	Last EDR Contact: 07/27/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/06/2023
	Data Release Frequency: Quarterly

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/19/2019	Telephone: 717-783-8990
Date Made Active in Reports: 09/10/2019	Last EDR Contact: 07/06/2023
Number of Days to Update: 53	Next Scheduled EDR Contact: 10/23/2023
	Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020	Source: Department of Environmental Management
Date Data Arrived at EDR: 11/30/2021	Telephone: 401-222-2797
Date Made Active in Reports: 02/18/2022	Last EDR Contact: 08/10/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/27/2023
	Data Release Frequency: Annually

### VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 10/28/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 10/29/2019	Telephone: 802-241-3443
Date Made Active in Reports: 01/09/2020	Last EDR Contact: 07/06/2023
Number of Days to Update: 72	Next Scheduled EDR Contact: 10/23/2023
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 06/19/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 76

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 08/30/2023  
Next Scheduled EDR Contact: 12/18/2023  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

## Electric Power Transmission Line Data

Source: Endeavor Business Media

This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## Nursing Homes

Source: National Institutes of Health  
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## Private Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA  
Telephone: 877-336-2627  
Date of Government Version: 2003, 2015

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory  
Source: MassDEP  
Telephone: 617-292-5907

Current USGS 7.5 Minute Topographic Map  
Source: U.S. Geological Survey

### **STREET AND ADDRESS INFORMATION**

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

# GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

## TARGET PROPERTY ADDRESS

SOUTH SHORE REGIONAL SCHOOL  
476 WEBSTER STREET  
HANOVER, MA 02339

## TARGET PROPERTY COORDINATES

Latitude (North): 42.146871 - 42° 8' 48.74"  
Longitude (West): 70.862396 - 70° 51' 44.63"  
Universal Transverse Mercator: Zone 19  
UTM X (Meters): 346109.0  
UTM Y (Meters): 4667548.0  
Elevation: 112 ft. above sea level

## USGS TOPOGRAPHIC MAP

Target Property Map: 11810456 COHASSET, MA  
Version Date: 2018  
  
Northwest Map: 11747667 WEYMOUTH, MA  
Version Date: 2018

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

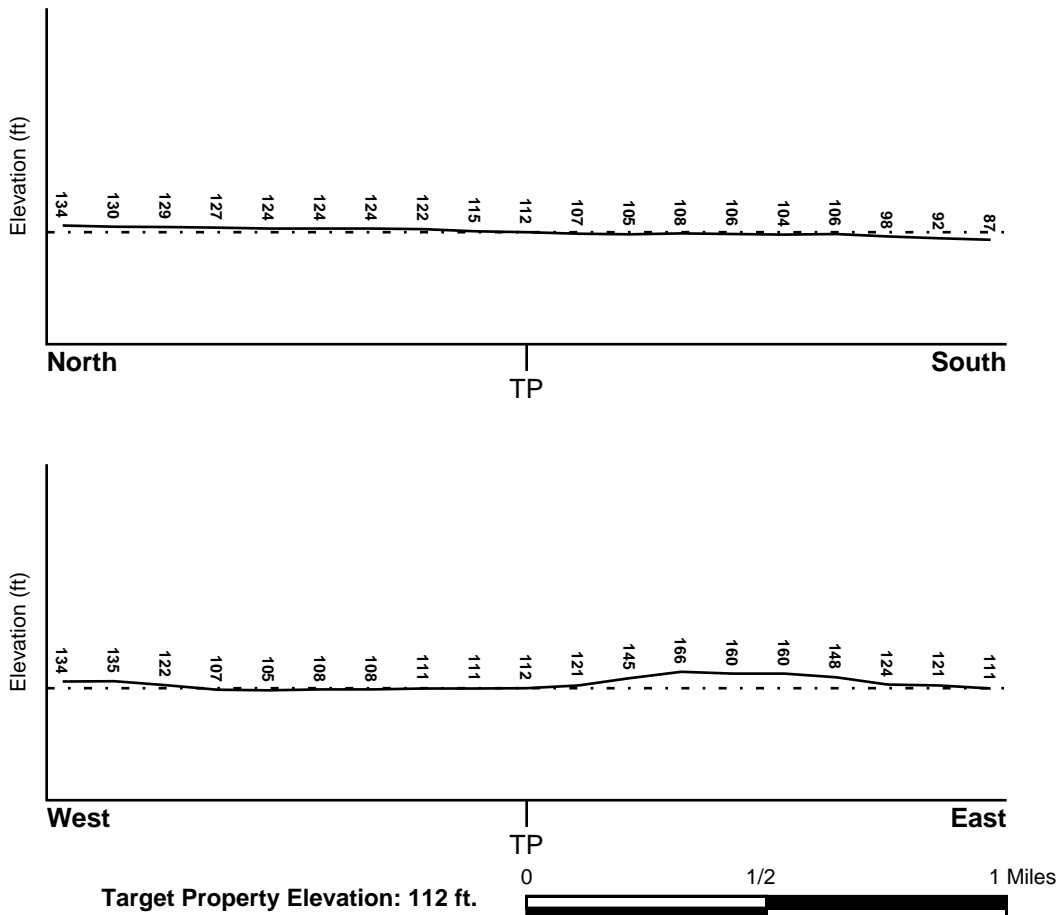
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
25023C0113J	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
25023C0092J	FEMA FIRM Flood data
25023C0111J	FEMA FIRM Flood data
25023C0094J	FEMA FIRM Flood data
25023C0114J	FEMA FIRM Flood data

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
EAST HALF OF WEYMOUTH	YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
18	1/2 - 1 Mile East	NW
1G	1/2 - 1 Mile East	NW

For additional site information, refer to Physical Setting Source Map Findings.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

### ROCK STRATIGRAPHIC UNIT

Era: Precambrian  
System: Precambrian  
Series: Z gneissic rocks  
Code: Zg (decoded above as Era, System & Series)

### GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: MONTAUK

Soil Surface Texture: extremely stony - sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	2 inches	extremely stony - sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.60	Max: 6.00 Min: 3.60
2	2 inches	27 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.60	Max: 6.00 Min: 3.60
3	27 inches	72 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 0.60 Min: 0.06	Max: 6.00 Min: 3.60

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: extremely stony - fine sandy loam  
muck  
unweathered bedrock  
very stony - fine sandy loam  
sandy loam

Surficial Soil Types: extremely stony - fine sandy loam  
muck  
unweathered bedrock  
very stony - fine sandy loam  
sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: gravelly - loamy sand  
loamy sand  
sand  
unweathered bedrock  
sapric material  
very gravelly - loamy coarse sand  
fine sandy loam  
stratified

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS40000467737	1/4 - 1/2 Mile WNW
A2	USGS40000467744	1/4 - 1/2 Mile WNW
B3	USGS40000467589	1/4 - 1/2 Mile WSW
B4	USGS40000467590	1/4 - 1/2 Mile WSW
5	USGS40000467425	1/2 - 1 Mile SSW
C6	USGS40000467407	1/2 - 1 Mile SSW
C7	USGS40000467408	1/2 - 1 Mile SSW
C8	USGS40000467394	1/2 - 1 Mile SSW
9	USGS40000467882	1/2 - 1 Mile NNE
10	USGS40000467376	1/2 - 1 Mile SSW
11	USGS40000467627	1/2 - 1 Mile West
D12	USGS40000467964	1/2 - 1 Mile NNW
D13	USGS40000467975	1/2 - 1 Mile NNW
14	USGS40000467920	1/2 - 1 Mile NW
E15	USGS40000467335	1/2 - 1 Mile South
E16	USGS40000467321	1/2 - 1 Mile South
17	USGS40000468053	1/2 - 1 Mile NNE
F19	USGS40000467906	1/2 - 1 Mile NW
F20	USGS40000467892	1/2 - 1 Mile NW
21	USGS40000481138	1/2 - 1 Mile NNE
G22	USGS40000467275	1/2 - 1 Mile SSW
G23	USGS40000467266	1/2 - 1 Mile SSW

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## **STATE DATABASE WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
---------------	----------------	-------------------------

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

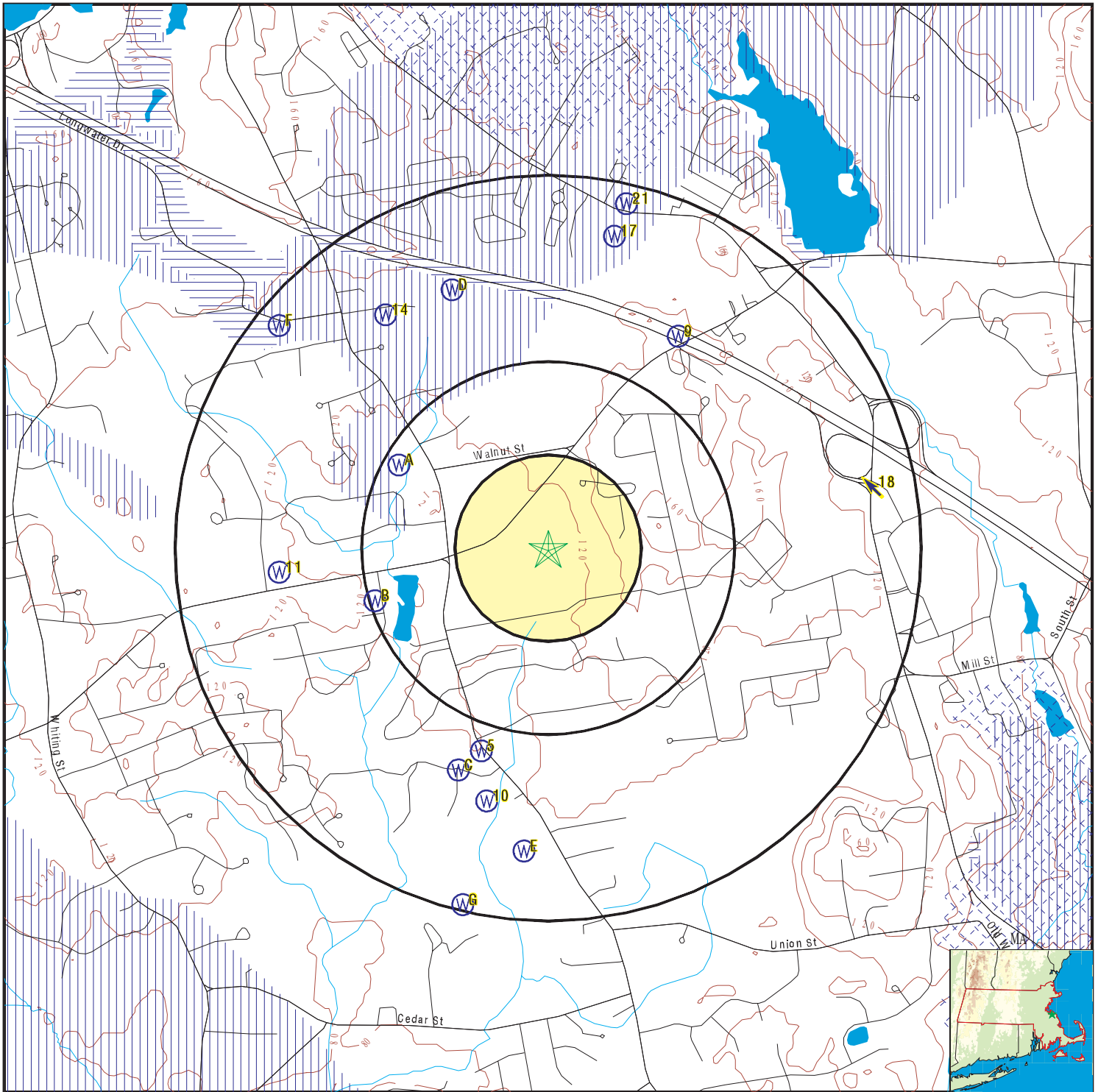
MAP ID

WELL ID

LOCATION  
FROM TP

No Wells Found

# PHYSICAL SETTING SOURCE MAP - 7444858.2s



- |  |  |                                     |
|--|--|-------------------------------------|
| County Boundary                            | Groundwater Flow Direction                 | Potentially Productive Aquifers     |
| Major Roads                                | Indeterminate Groundwater Flow at Location | Not Potentially Productive Aquifers |
| Contour Lines                              | Groundwater Flow Varies at Location        | DEP Approved Zone IIs               |
| Earthquake epicenter, Richter 5 or greater |  | EPA Designated Sole Src. Aq.        |
| Water Wells                                |  |                                     |
| Public Water Supply Wells                  |  |                                     |
| Cluster of Multiple Icons                  |  |                                     |

SITE NAME: South Shore Regional School  
 ADDRESS: 476 Webster Street  
 Hanover MA 02339  
 LAT/LONG: 42.146871 / 70.862396

CLIENT: O Reilly, Talbot & Okun  
 CONTACT: Bruce Nickelsen  
 INQUIRY #: 7444858.2s  
 DATE: September 14, 2023 4:56 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**A1**  
**WNW**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS40000467737**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 73	Type:	Well
Description:	Not Reported	HUC:	01090001
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1957
Well Depth:	19	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**A2**  
**WNW**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS40000467744**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 72	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1957
Well Depth:	24	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**B3**  
**WSW**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS40000467589**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 53	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1954
Well Depth:	15	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1954-11-01
Feet below surface:	4.00	Feet to sea level:	Not Reported
Note:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**B4**  
**WSW**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS40000467590**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 54	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	10	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1954-11-01
Feet below surface:	5.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**5**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000467425**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 107	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bedrock
Aquifer Type:	Not Reported	Construction Date:	1966
Well Depth:	176	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1966-01-01
Feet below surface:	10.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**C6**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000467407**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 19	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1965	Well Depth:	20
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels, Number of Measurements:	1	Level reading date:	1965-10-01
Feet below surface:	2.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**C7**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000467408**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 20	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1965
Well Depth:	31	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**C8**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000467394**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 21	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1965
Well Depth:	47	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**9**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000467882**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFB 3	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1959
Well Depth:	12	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**10**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000467376**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 91	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Stratified Deposits, Undifferentiated		
Aquifer Type:	Not Reported	Construction Date:	1965
Well Depth:	36	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-10-01
Feet below surface:	4.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**11**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000467627**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFX 1	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1960
Well Depth:	10	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**D12**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000467964**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-N5W 98	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1966	Well Depth:	36
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-12-01
---	---	---------------------	------------

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet below surface:	1.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**D13  
NNW  
1/2 - 1 Mile  
Higher**

**FED USGS    USGS40000467975**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-N5W 286	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1966
Well Depth:	40	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**14  
NW  
1/2 - 1 Mile  
Higher**

**FED USGS    USGS40000467920**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-N5W 283	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	35	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**E15  
South  
1/2 - 1 Mile  
Lower**

**FED USGS    USGS40000467335**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 74	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Stratified Deposits, Undifferentiated		
Aquifer Type:	Not Reported	Construction Date:	1957
Well Depth:	44	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1957-07-01
Feet below surface:	2.00	Feet to sea level:	Not Reported
Note:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**E16**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000467321**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 75	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1957
Well Depth:	31	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**17**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000468053**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-N5W 86	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1956
Well Depth:	29	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1956-08-01
Feet below surface:	4.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**18**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**AQUIFLOW      5340**

Site ID:	4-0000803
Groundwater Flow:	NW
Shallowest Water Table Depth:	2.9
Deepest Water Table Depth:	6.6
Date:	10/22/1996

**F19**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000467906**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-N5W 280	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1966

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth:	25	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**F20  
NW  
1/2 - 1 Mile  
Higher**

**FED USGS    USGS40000467892**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-N5W 279	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1966
Well Depth:	23	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**21  
NNE  
1/2 - 1 Mile  
Higher**

**FED USGS    USGS40000481138**

Organization ID:	USGS-NH		
Organization Name:	USGS New Hampshire Water Science Center		
Monitor Location:	MA-N5W 371	Type:	Well
Description:	NAWQA GWSI data verified by Joe Ayotte		
HUC:	01090002	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported		
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Stratified Deposits, Undifferentiated		
Aquifer Type:	Unconfined single aquifer	Construction Date:	19981007
Well Depth:	15	Well Depth Units:	ft
Well Hole Depth:	15	Well Hole Depth Units:	ft

Ground water levels, Number of Measurements:	4	Level reading date:	1999-08-24
Feet below surface:	8.76	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1998-10-29	Feet below surface:	7.70
Feet to sea level:	Not Reported		
Note:	Other conditions existed that would affect the measured water level.		

Level reading date:	1998-10-29	Feet below surface:	8.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1998-10-07	Feet below surface:	8.14
Feet to sea level:	Not Reported		
Note:	Other conditions existed that would affect the measured water level.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**G22**  
**SSW**  
 1/2 - 1 Mile  
 Lower

**FED USGS      USGS40000467275**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 13	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Stratified Deposits, Undifferentiated		
Aquifer Type:	Not Reported	Construction Date:	1965
Well Depth:	50	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels, Number of Measurements:	1	Level reading date:	1965-10-01
Feet below surface:	3.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**G23**  
**SSW**  
 1/2 - 1 Mile  
 Lower

**FED USGS      USGS40000467266**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-HFW 14	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Stratified Deposits, Undifferentiated		
Aquifer Type:	Not Reported	Construction Date:	1965
Well Depth:	63	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**1G**  
**East**  
 1/2 - 1 Mile  
 Lower

**AQUIFLOW      5340**

Site ID:	4-0000803
Groundwater Flow:	NW
Shallowest Water Table Depth:	2.9
Deepest Water Table Depth:	6.6
Date:	10/22/1996

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: MA Radon

### Radon Test Results

County	% of sites > 4 pCi/L	Median
PLYMOUTH	12	1.4

Federal EPA Radon Zone for PLYMOUTH County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level  $\geq$  2 pCi/L and  $\leq$  4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for Zip Code: 02339

Number of sites tested: 5

Area	Average Activity	% < 4 pCi/L	% 4-20 pCi/L	% > 20 pCi/L
Living Area - 1st Floor	0.750 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.140 pCi/L	100%	0%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: MassDEP

Telephone: 617-292-5907

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Massachusetts Geographic Information System (MassGIS) Datalayers

Source: Executive Office of Environmental Affairs

Telephone:

#### Public Water Supply Database

Telephone:

The Public Water Supply datalayer contains the locations of public community surface and groundwater supply sources and public non-community supply sources as defined in 310 CMR 22.00.

#### Areas of Critical Environmental Concern

Telephone:

The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

#### EPA Designated Sole Source Aquifers

Telephone:

The Sole Source Aquifer datalayer was compiled by the Department of Environmental Protection (DEP) Division of Water Supply (DWS). Seven Sole Source Aquifers have been designated by the US Environmental Protection Agency (EPA) for Massachusetts. A Sole Source Aquifer (SSA) is an aquifer designated by US EPA as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for that area and for which there are no reasonably available alternative sources should that aquifer become contaminated. The aquifers were defined by an EPA hydrogeologist.

#### Aquifers

Telephone:

MassGIS produced an aquifer datalayer composed of 20 individual panels, generally based on the boundaries of the major drainage basins. Areas of high and medium yield were mapped. This datalayer includes polygon attribute coding to help in the identification of areas in which cleanup of hazardous waste sites must meet drinking water standards, as defined in the Massachusetts Contingency Plan (MCP) (310 CMR 40.00000).

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## Non-Potential Drinking Water Source Areas

### Telephone:

Non-Potential Drinking Water Source Areas (NPDWSA) are regulatory in nature representing one of many considerations used in determining the standards to which ground water must be cleaned in the event of a release of oil or hazardous material. NPDWSAs are not based on existing water quality and do not indicate poor ambient conditions.

## DEP Approved Zone IIs

### Telephone:

The Department of Environmental Protection (DEP) approved Zone IIs datalayer was compiled by the DEP Division of Water Supply (DWS). The database contains 281 approved Zone IIs statewide. As stated in 310 CMR 22.02, a Zone II is 'that area of an aquifer which contributes water to a well under the most severe pumping and recharge conditions that can be realistically anticipated (180 days of pumping at safe yield, with no recharge from precipitation.) It is bounded by the groundwater divides which result from pumping the well and by the contact of the aquifer with less permeable materials such as till or bedrock. In some cases, streams or lakes may act as recharge boundaries. In all cases, Zone IIs shall extend up gradient to its point of intersection with prevailing hydrogeologic boundaries (a groundwater flow divide, a contact with till or bedrock, or a recharge boundary).' These data are used in association with the Public Water Supplies datalayer. The following describes certain unique features of this association.\n - Any proposed new well which will pump at least 100,000 gallons per day must have a Zone II delineation completed and approved by DEP prior to the well coming on line. \n- Additionally, a new source may not be on-line yet, but other, older wells may fall within its Zone II boundary.\n - Further, existing wells must have a Zone II delineated as a condition of receiving a water withdrawal permit under the Water Management Act.

## OTHER STATE DATABASE INFORMATION

### RADON

#### State Database: MA Radon

Source: Department of Health

Telephone: 413-586-7525

Radon Test Results

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

# APPENDIX E

# MassDEP - Bureau of Waste Site Cleanup

## Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

### Site Information:

SOUTH SHORE TECHNICAL HIGH SCHOOL  
476 WEBSTER STREET HANOVER, MA

### NAD83 UTM Meters:

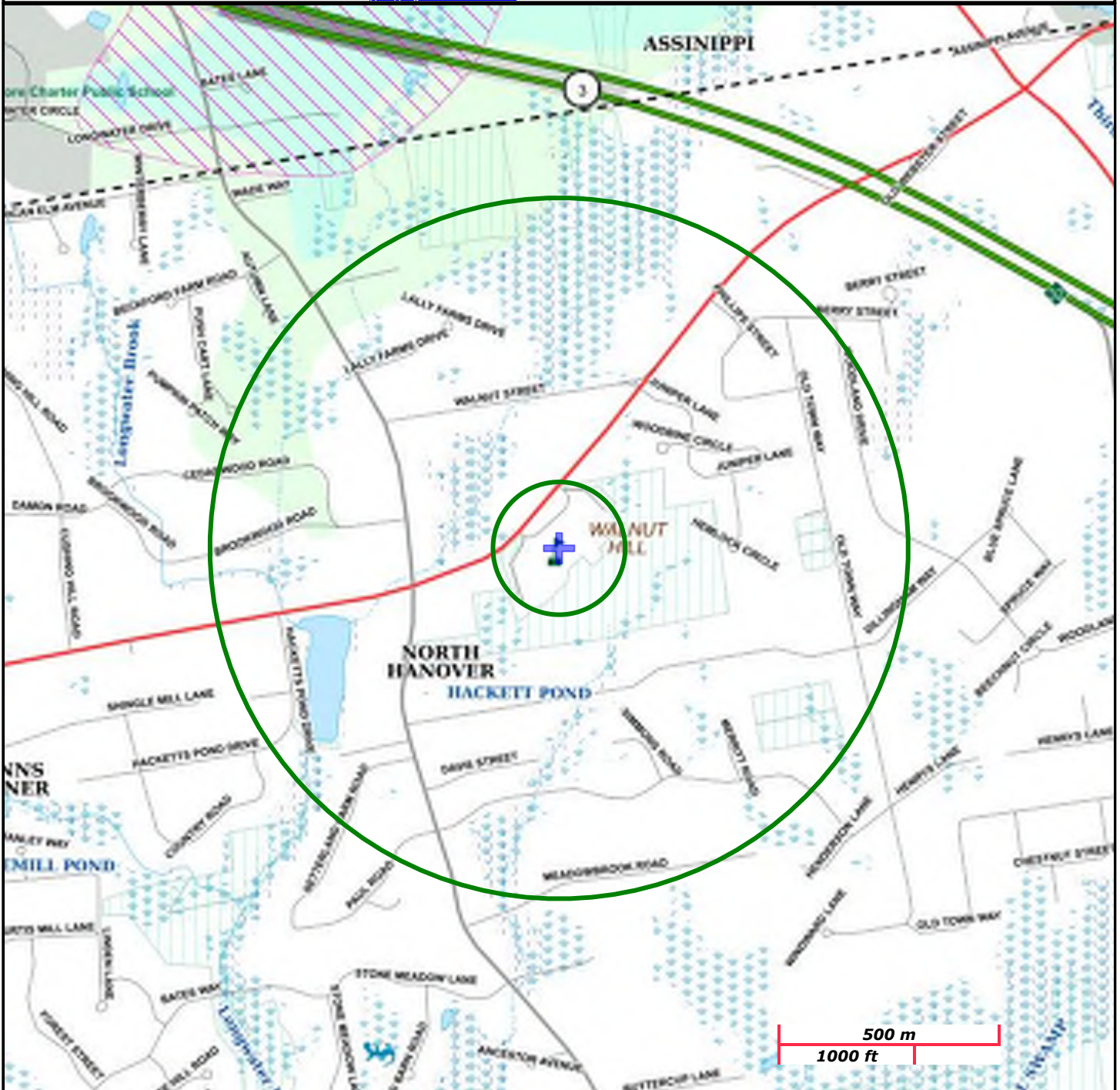
4667814mN , 346025mE (Zone: 19)  
October 5, 2023

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at:  
<https://www.mass.gov/orgs/massgis-bureau-of-geographic-information>.



# MassDEP

Commonwealth of Massachusetts  
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail	PWS Protection Areas: Zone II, IWPA, Zone A		
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct	Hydrography: Open Water, PWS Reservoir, Tidal Flat		
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam	Wetlands: Freshwater, Saltwater, Cranberry Bog		
Aquifers: Medium Yield, High Yield, EPA Sole Source	FEMA 100yr Floodplain; Protected Open Space; ACEC		
Non Potential Drinking Water Source Area: Medium, High (Yield)	NHESP Pri-Hab of Rare Species; Vernal Pool: Cert., Potential		
	Solid Waste Landfill; PWS: Com. GW, SW, Emerg., Non-Com.		

APPENDIX F

South Shore Regional School

476 Webster Street

Hanover, MA 02339

Inquiry Number: 7444858.3

September 14, 2023

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# Certified Sanborn® Map Report

09/14/23

**Site Name:**

South Shore Regional School  
476 Webster Street  
Hanover, MA 02339  
EDR Inquiry # 7444858.3

**Client Name:**

O'Reilly, Talbot & Okun  
69 Milk St Suite 218  
Westborough, MA 01581-0000  
Contact: Bruce Nickelsen



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by O'Reilly, Talbot & Okun were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## Certified Sanborn Results:

**Certification #** F31E-4F1D-AA0F  
**PO #** J863-16  
**Project** South Shore Regional School

### UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: F31E-4F1D-AA0F

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

### Limited Permission To Make Copies

O'Reilly, Talbot & Okun (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

### Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT. Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2023 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.



**South Shore Regional School**

476 Webster Street

Hanover, MA 02339

Inquiry Number: 7444858.8

September 14, 2023

# The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

09/14/23

**Site Name:**

South Shore Regional School  
476 Webster Street  
Hanover, MA 02339  
EDR Inquiry # 7444858.8

**Client Name:**

O'Reilly, Talbot & Okun  
69 Milk St Suite 218  
Westborough, MA 01581-0000  
Contact: Bruce Nickelsen



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2018	1"=500'	Flight Year: 2018	USDA/NAIP
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1995	1"=500'	Acquisition Date: March 29, 1995	USGS/DOQQ
1992	1"=500'	Flight Date: April 13, 1992	USGS
1986	1"=500'	Flight Date: April 01, 1986	USDA
1980	1"=500'	Flight Date: September 09, 1980	USDA
1978	1"=500'	Flight Date: April 23, 1978	USGS
1970	1"=500'	Flight Date: September 20, 1970	USDA
1969	1"=500'	Flight Date: April 13, 1969	USGS
1960	1"=500'	Flight Date: December 04, 1960	USGS
1957	1"=500'	Flight Date: April 22, 1957	USGS
1952	1"=500'	Flight Date: August 19, 1952	USDA

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT.

ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT.

Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2023 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.





INQUIRY # 7444858.8

YEAR: 2018

— = 500'







INQUIRY # 7444858.8

YEAR: 2014

— = 500'







INQUIRY # 7444858.8

YEAR: 2010

— = 500'







INQUIRY # 7444858.8

YEAR: 2006

— = 500'







INQUIRY # 7444858.8

YEAR: 1995

\_\_\_\_\_ = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.





INQUIRY # 7444858.8

YEAR: 1992

— = 500'





INQUIRY #: 7444858.8

YEAR: 1986

— = 500'







INQUIRY # 7444858.8

YEAR: 1980

\_\_\_\_\_ = 500'







INQUIRY # 7444858.8

YEAR: 1978

— = 500'







INQUIRY # 7444858.8

YEAR: 1970

\_\_\_\_\_ = 500'







INQUIRY # 7444858.8

YEAR: 1969

\_\_\_\_\_ = 500'







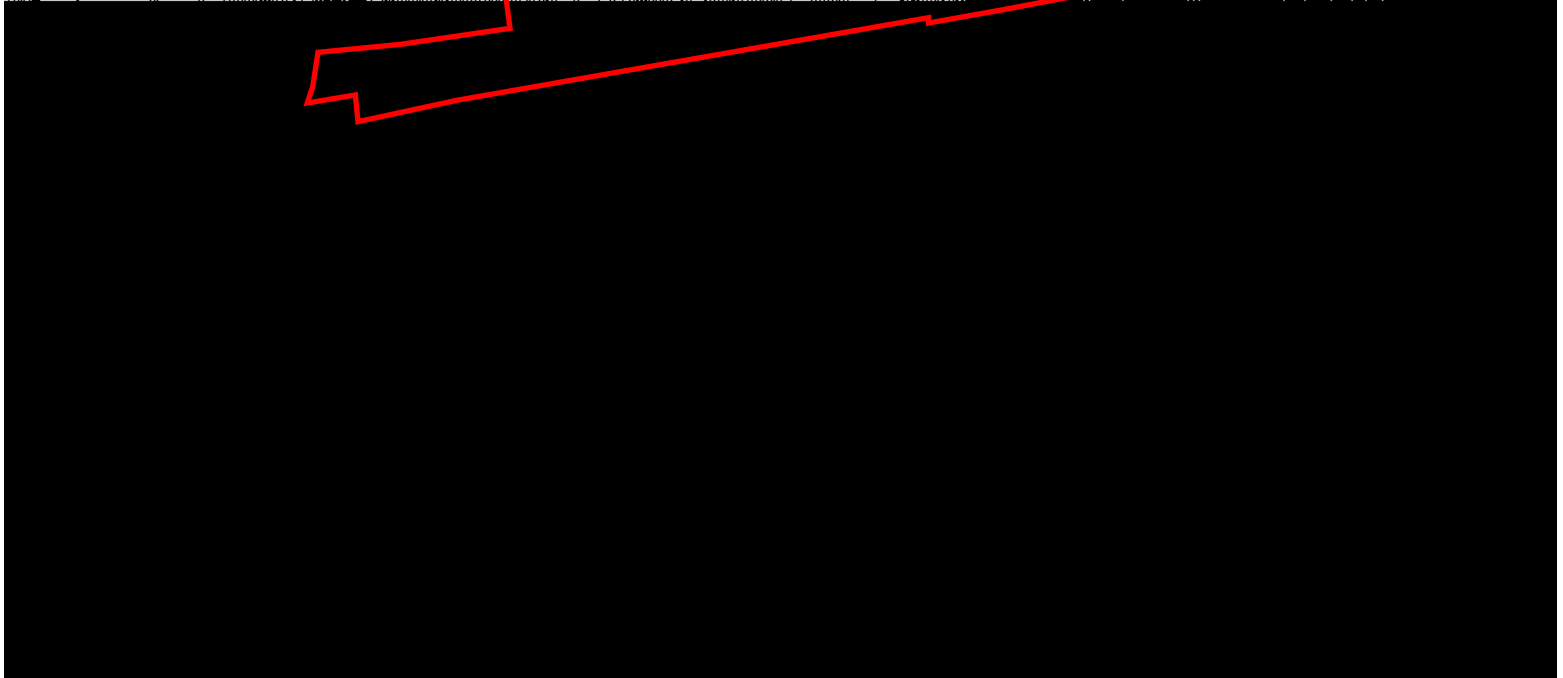
INQUIRY # 7444858.8

YEAR: 1960

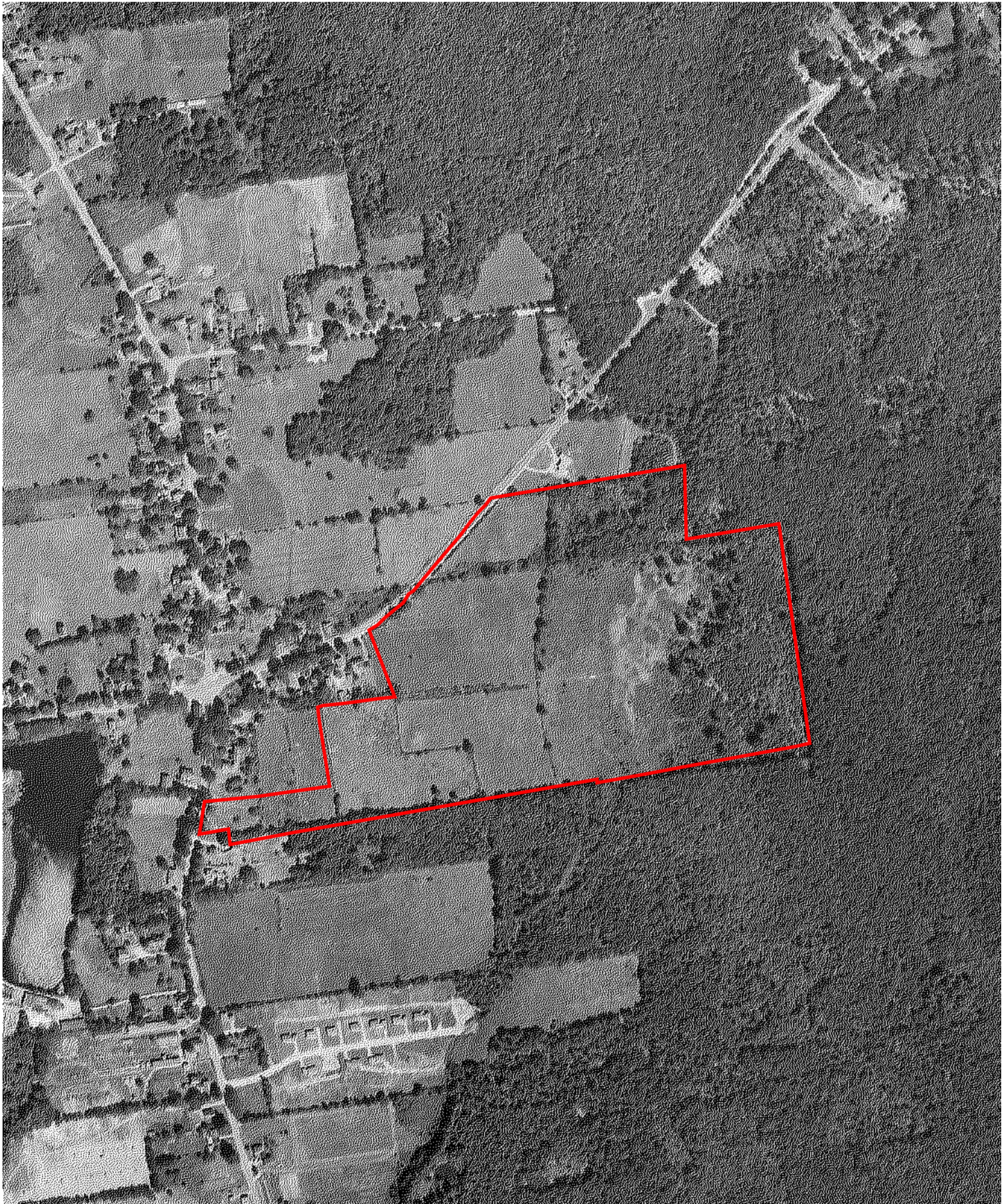
\_\_\_\_\_ = 500'











INQUIRY # 7444858.8

YEAR: 1952

\_\_\_\_\_ = 500'





South Shore Regional School

476 Webster Street

Hanover, MA 02339

Inquiry Number: 7444858.4

September 14, 2023

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

09/14/23

**Site Name:**

South Shore Regional School  
476 Webster Street  
Hanover, MA 02339  
EDR Inquiry # 7444858.4

**Client Name:**

O'Reilly, Talbot & Okun  
69 Milk St Suite 218  
Westborough, MA 01581-0000  
Contact: Bruce Nickelsen



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by O'Reilly, Talbot & Okun were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	J863-16	<b>Latitude:</b>	42.146871 42° 8' 49" North
<b>Project:</b>	South Shore Regional School	<b>Longitude:</b>	-70.862396 -70° 51' 45" West
		<b>UTM Zone:</b>	Zone 19 North
		<b>UTM X Meters:</b>	346113.23
		<b>UTM Y Meters:</b>	4667761.95
		<b>Elevation:</b>	111.79' above sea level

**Maps Provided:**

2018	1958, 1961, 1962
2015	1947, 1948
2012	1940, 1941
1985	1935, 1936
1984	1920
1977	1915
1974	1893
1971, 1974	1888

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT.

ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT. Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2023 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2018 Source Sheets



Cohasset  
2018  
7.5-minute, 24000



Weymouth  
2018  
7.5-minute, 24000



Hanover  
2018  
7.5-minute, 24000



Whitman  
2018  
7.5-minute, 24000

### 2015 Source Sheets



Cohasset  
2015  
7.5-minute, 24000



Weymouth  
2015  
7.5-minute, 24000



Hanover  
2015  
7.5-minute, 24000



Whitman  
2015  
7.5-minute, 24000

### 2012 Source Sheets



Cohasset  
2012  
7.5-minute, 24000



Weymouth  
2012  
7.5-minute, 24000



Hanover  
2012  
7.5-minute, 24000



Whitman  
2012  
7.5-minute, 24000

### 1985 Source Sheets

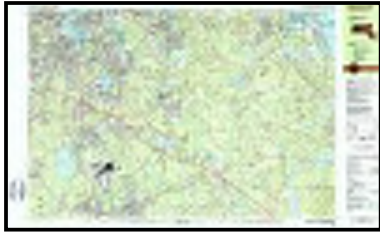


WEYMOUTH  
1985  
15-minute, 50000

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1984 Source Sheets



Weymouth  
1984  
7.5-minute, 25000  
Aerial Photo Revised 1978

### 1977 Source Sheets



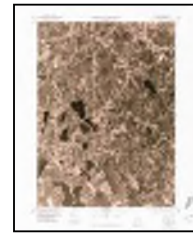
Cohasset  
1977  
7.5-minute, 25000



Weymouth  
1977  
7.5-minute, 25000  
Aerial Photo Revised 1977



Whitman  
1977  
7.5-minute, 25000  
Aerial Photo Revised 1974



Hanover  
1977  
7.5-minute, 25000  
Aerial Photo Revised 1977

### 1974 Source Sheets



Cohasset  
1974  
7.5-minute, 25000  
Aerial Photo Revised 1973

### 1971, 1974 Source Sheets



Weymouth  
1971  
7.5-minute, 24000  
Aerial Photo Revised 1969



## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1958, 1961, 1962 Source Sheets



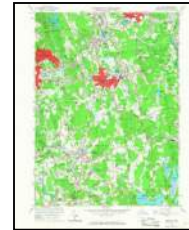
Weymouth  
1958  
7.5-minute, 24000  
Aerial Photo Revised 1957



Cohasset  
1961  
7.5-minute, 24000



Hanover  
1962  
7.5-minute, 24000



Whitman  
1962  
7.5-minute, 24000

### 1947, 1948 Source Sheets



Weymouth  
1947  
7.5-minute, 24000



Cohasset  
1947  
7.5-minute, 24000



Whitman  
1948  
7.5-minute, 24000



Hanover  
1948  
7.5-minute, 24000

### 1940, 1941 Source Sheets



Hanover  
1940  
7.5-minute, 31680



Cohasset  
1941  
7.5-minute, 31680



Weymouth  
1941  
7.5-minute, 31680



Whitman  
1941  
7.5-minute, 31680

### 1935, 1936 Source Sheets



Hanover  
1935  
7.5-minute, 24000



Cohasset  
1936  
7.5-minute, 24000



Whitman  
1936  
7.5-minute, 24000



Weymouth  
1936  
7.5-minute, 24000

## **Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1920 Source Sheets**



Abington  
1920  
15-minute, 62500

### **1915 Source Sheets**



ABINGTON  
1915  
15-minute, 62500

### **1893 Source Sheets**



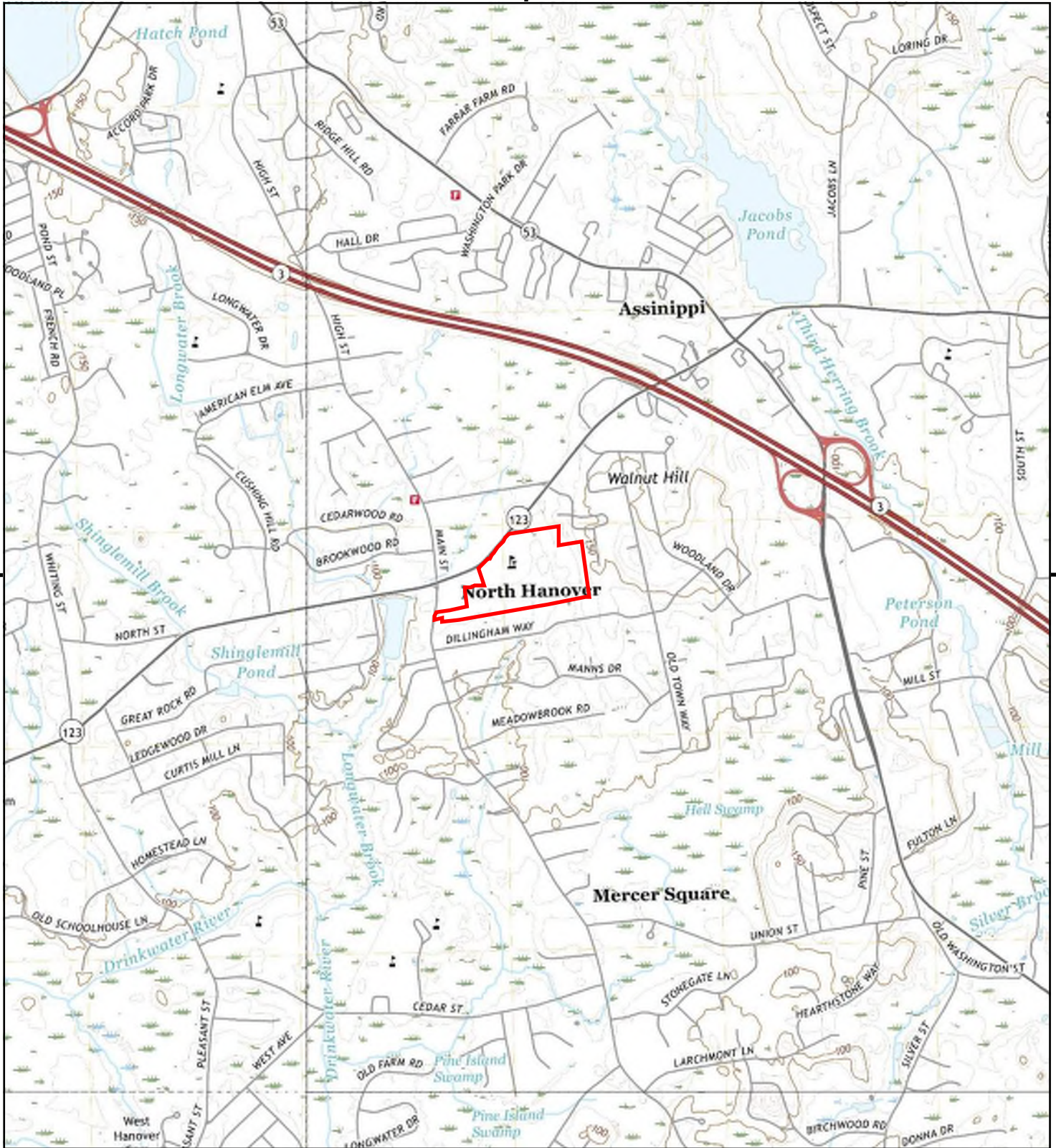
Abington  
1893  
15-minute, 62500

### **1888 Source Sheets**

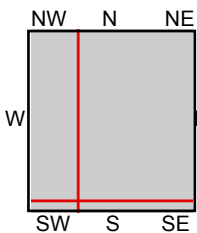


Abington  
1888  
15-minute, 62500





This report includes information from the following map sheet(s).



TP, Cohasset, 2018, 7.5-minute  
 SE, Hanover, 2018, 7.5-minute  
 SW, Whitman, 2018, 7.5-minute  
 NW, Weymouth, 2018, 7.5-minute

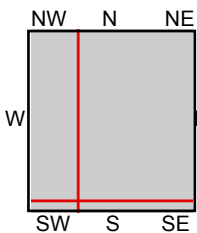
**SITE NAME:** South Shore Regional School  
**ADDRESS:** 476 Webster Street  
 Hanover, MA 02339  
**CLIENT:** O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).

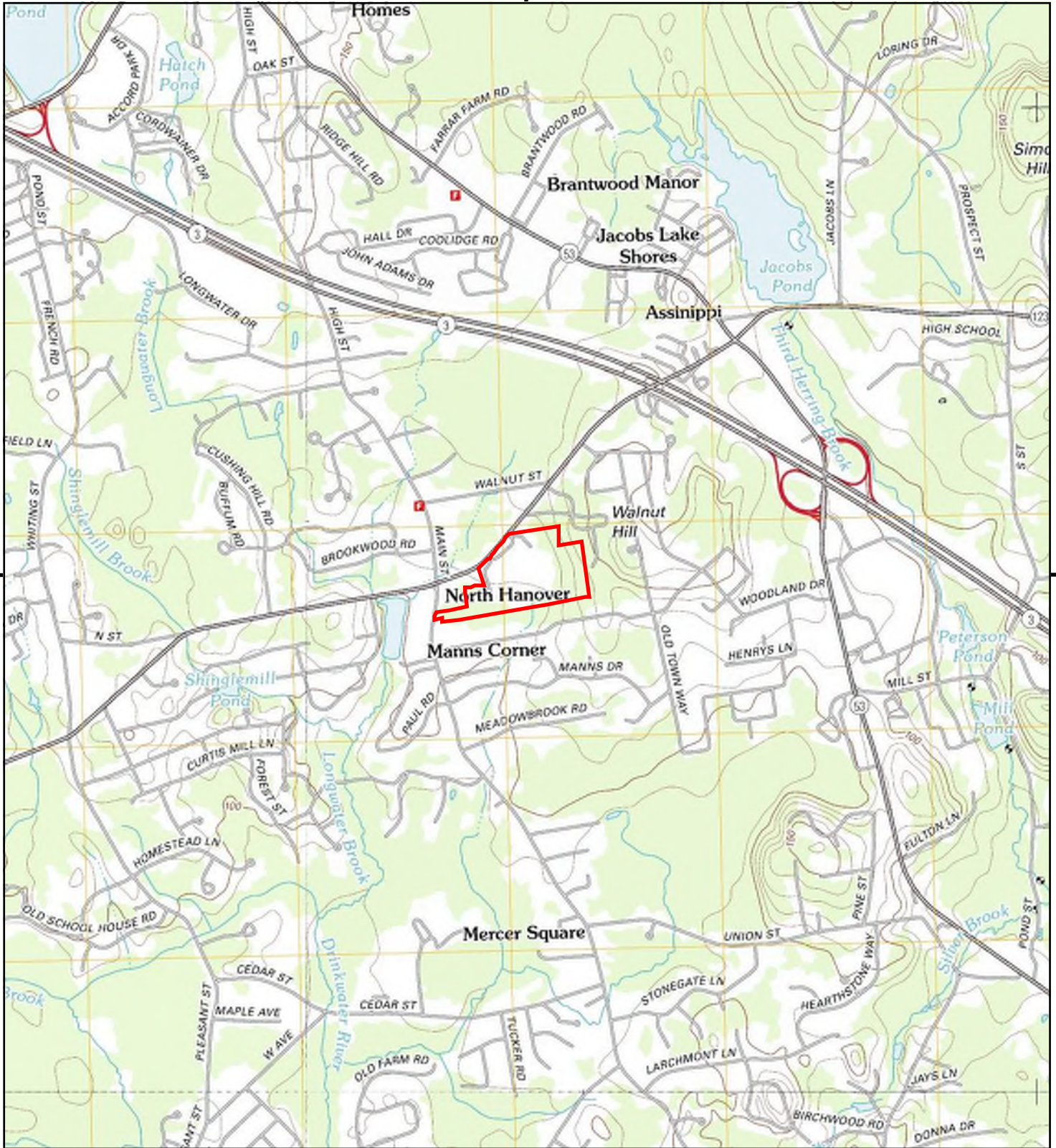


TP, Cohasset, 2015, 7.5-minute  
 SE, Hanover, 2015, 7.5-minute  
 SW, Whitman, 2015, 7.5-minute  
 NW, Weymouth, 2015, 7.5-minute

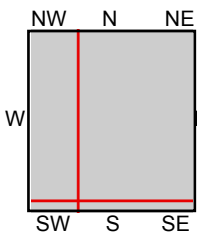
SITE NAME: South Shore Regional School  
 ADDRESS: 476 Webster Street  
 Hanover, MA 02339  
 CLIENT: O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).



TP, Cohasset, 2012, 7.5-minute  
 SE, Hanover, 2012, 7.5-minute  
 SW, Whitman, 2012, 7.5-minute  
 NW, Weymouth, 2012, 7.5-minute

**SITE NAME:** South Shore Regional School  
**ADDRESS:** 476 Webster Street  
 Hanover, MA 02339  
**CLIENT:** O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).

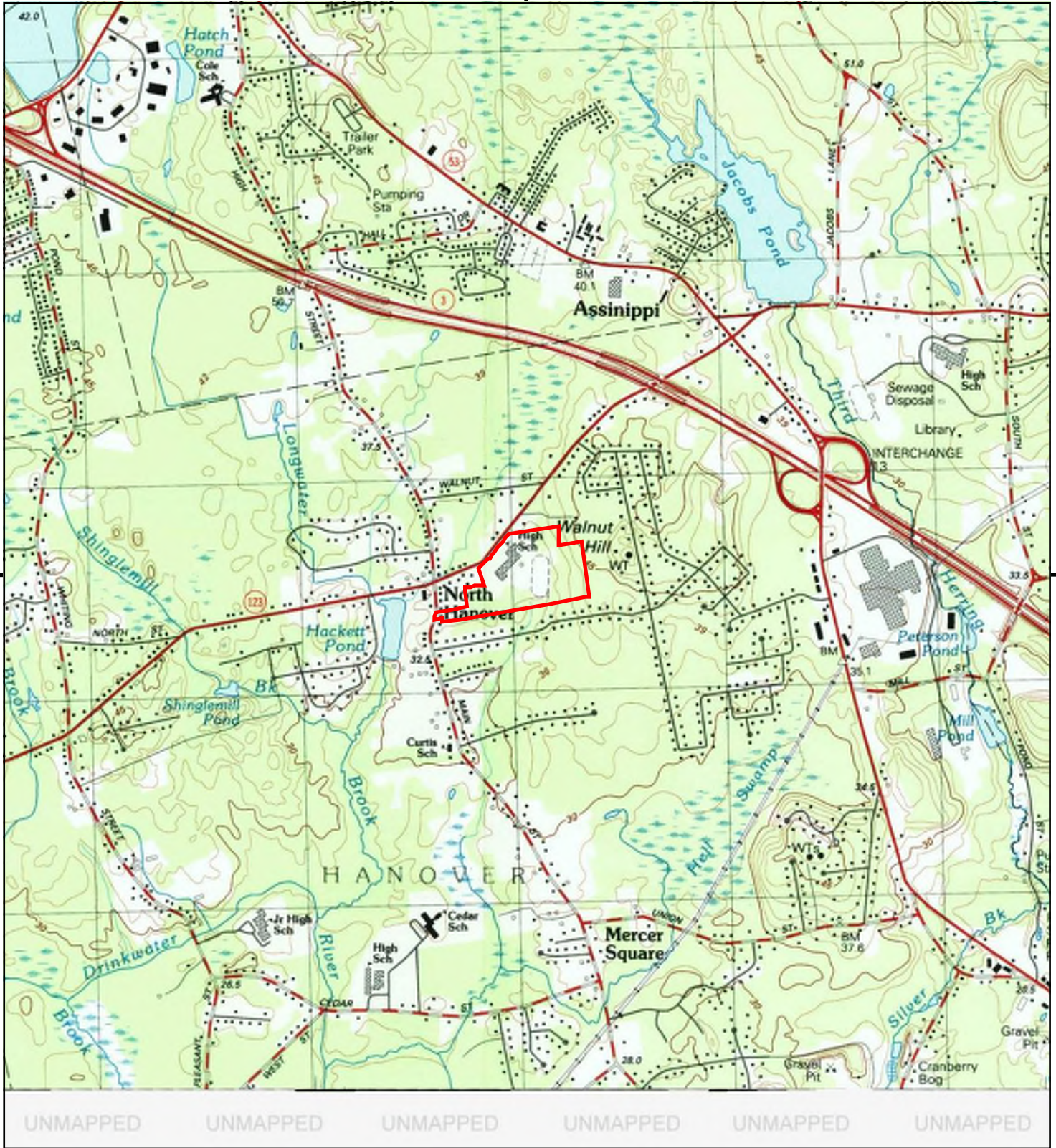


TP, WEYMOUTH, 1985, 15-minute

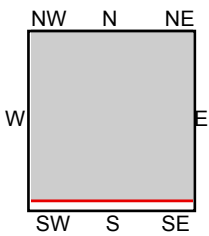
SITE NAME: South Shore Regional School  
 ADDRESS: 476 Webster Street  
 Hanover, MA 02339  
 CLIENT: O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).



TP, Weymouth, 1984, 7.5-minute

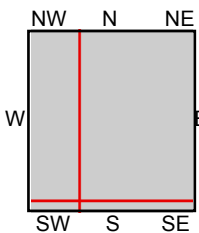
SITE NAME: South Shore Regional School  
 ADDRESS: 476 Webster Street  
 Hanover, MA 02339  
 CLIENT: O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).

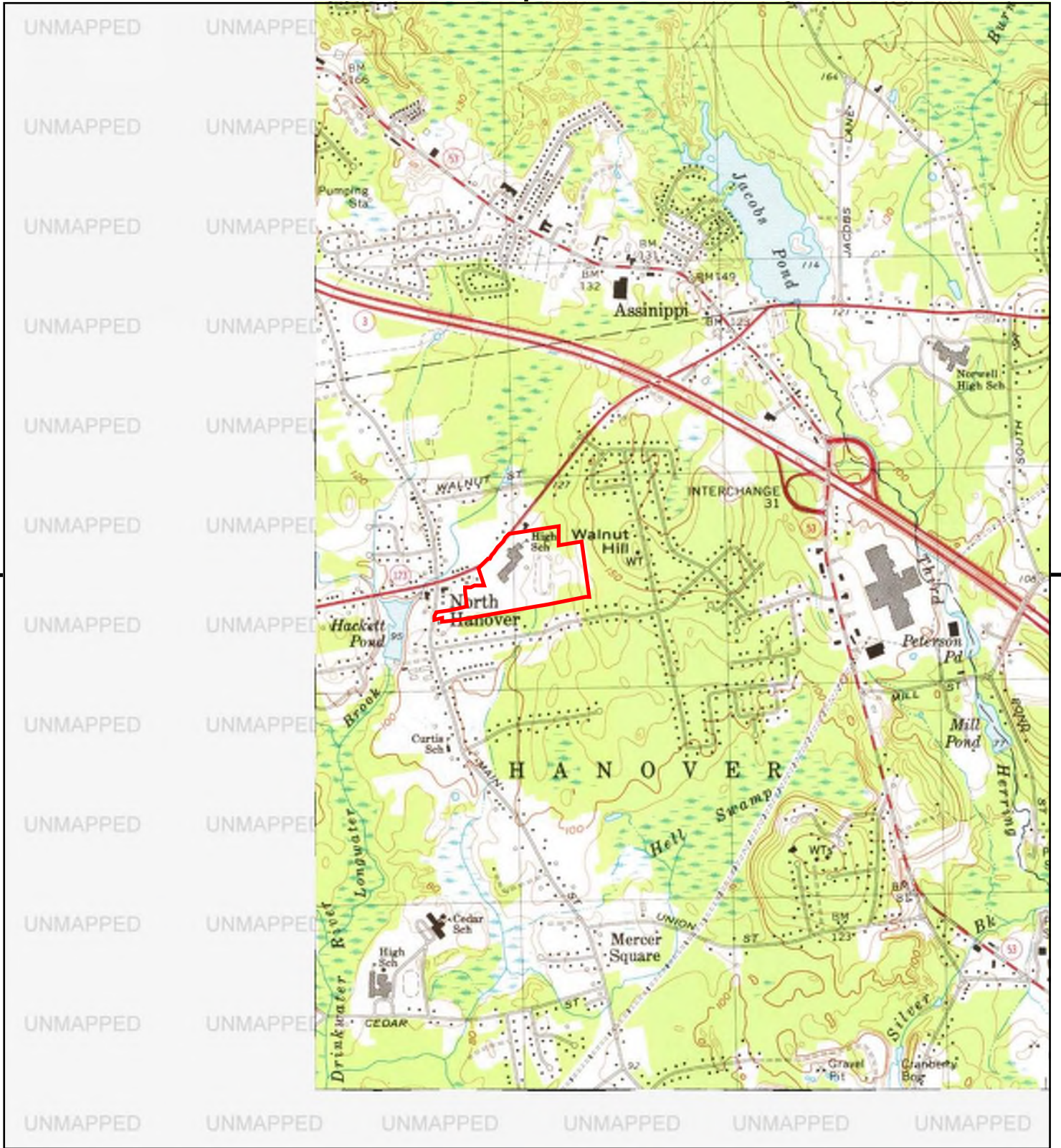


TP, Cohasset, 1977, 7.5-minute  
 SE, Hanover, 1977, 7.5-minute  
 SW, Whitman, 1977, 7.5-minute  
 NW, Weymouth, 1977, 7.5-minute

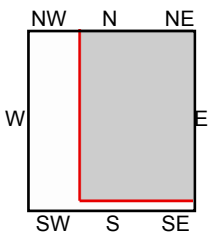
**SITE NAME:** South Shore Regional School  
**ADDRESS:** 476 Webster Street  
 Hanover, MA 02339  
**CLIENT:** O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).

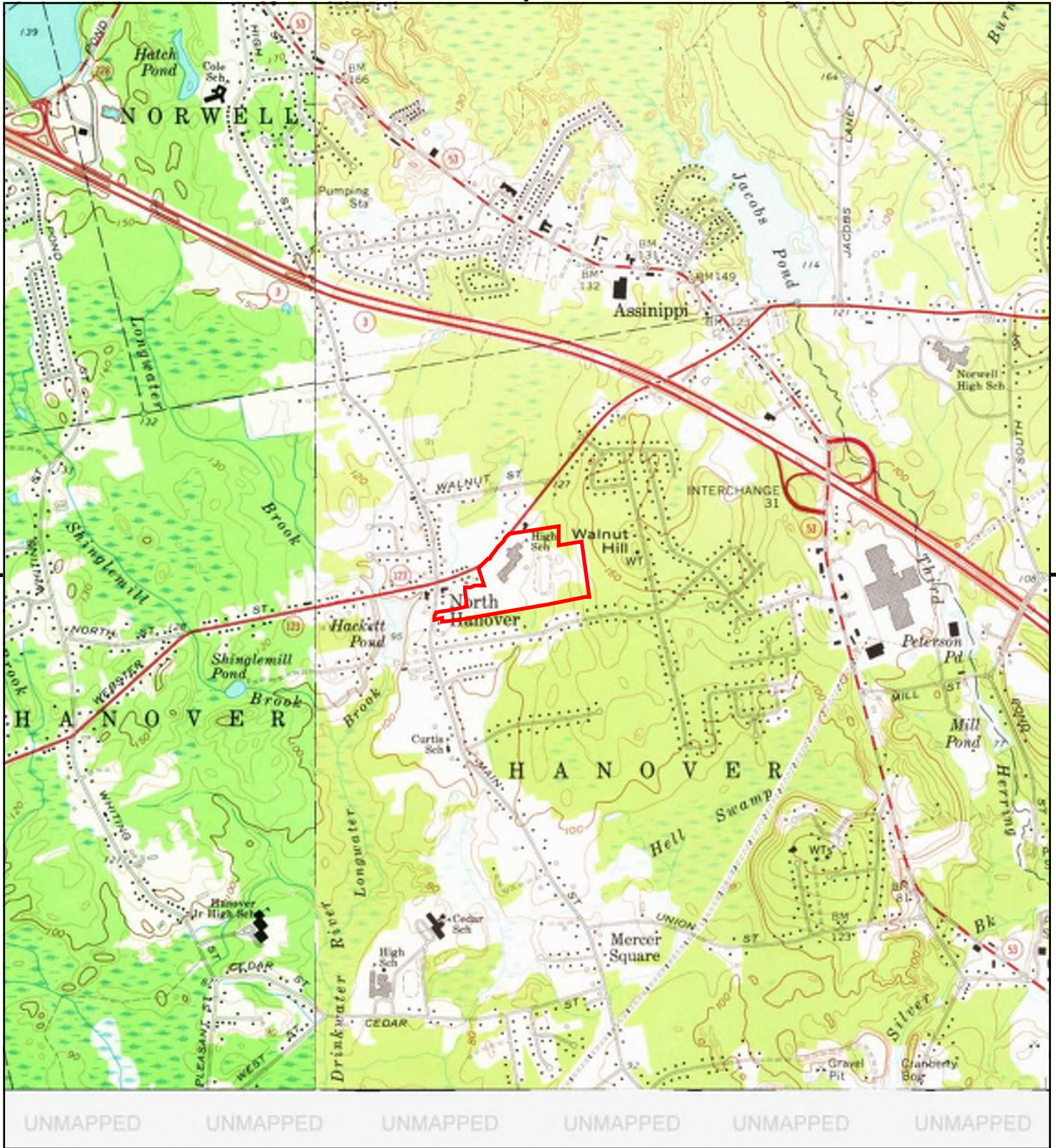


TP, Cohasset, 1974, 7.5-minute

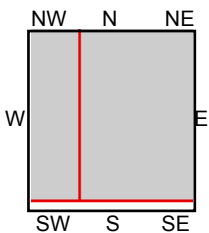
SITE NAME: South Shore Regional School  
 ADDRESS: 476 Webster Street  
 Hanover, MA 02339  
 CLIENT: O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).

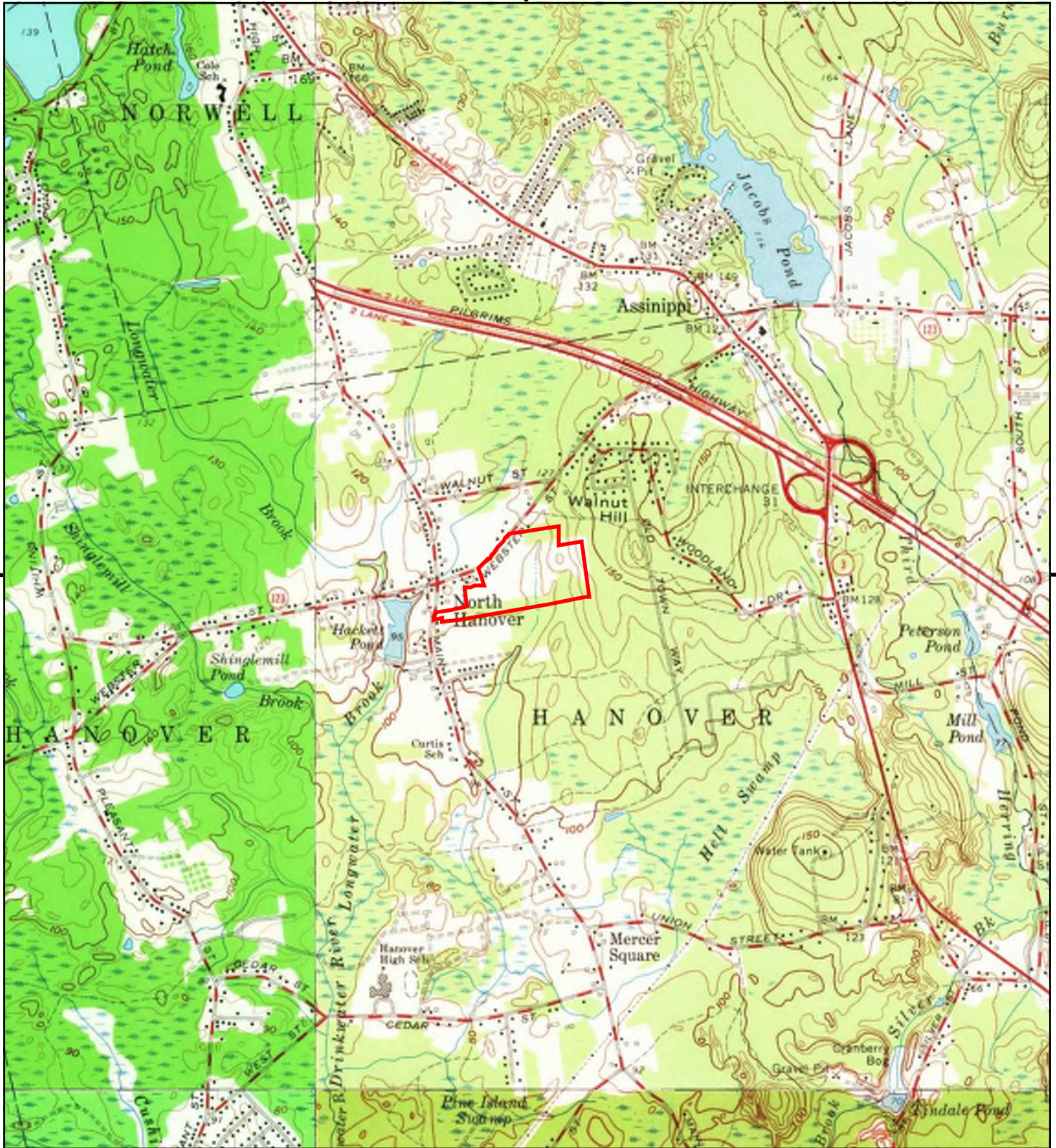


TP, Cohasset, 1974, 7.5-minute  
 NW, Weymouth, 1971, 7.5-minute

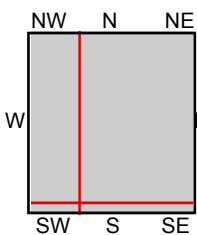
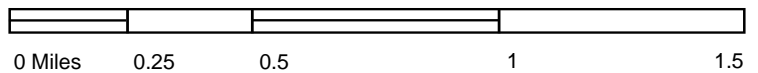
**SITE NAME:** South Shore Regional School  
**ADDRESS:** 476 Webster Street  
 Hanover, MA 02339  
**CLIENT:** O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).

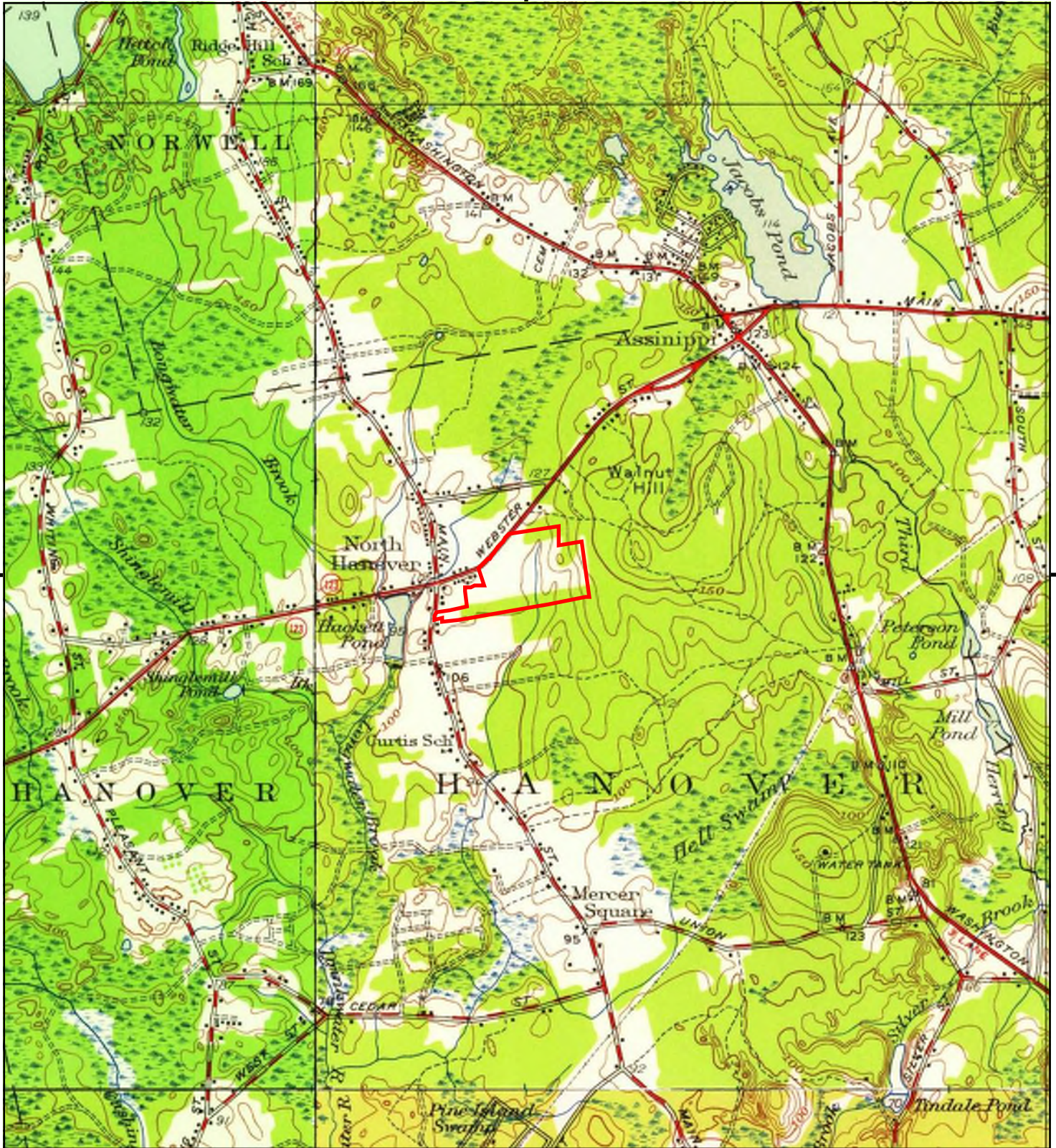


TP, Cohasset, 1961, 7.5-minute  
 SE, Hanover, 1962, 7.5-minute  
 SW, Whitman, 1962, 7.5-minute  
 NW, Weymouth, 1958, 7.5-minute

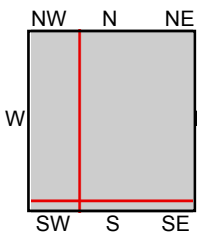
**SITE NAME:** South Shore Regional School  
**ADDRESS:** 476 Webster Street  
 Hanover, MA 02339  
**CLIENT:** O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).

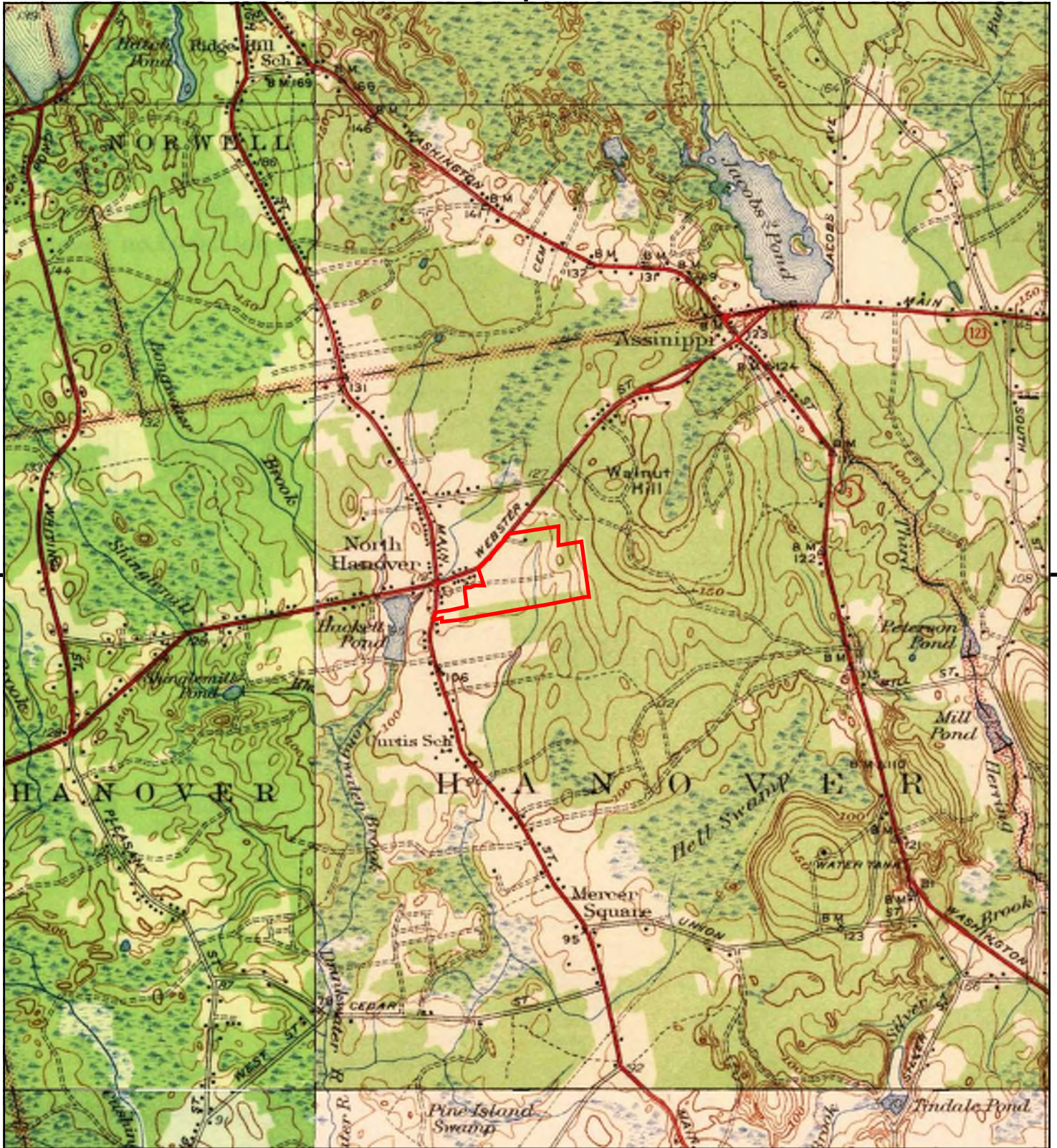


TP, Cohasset, 1947, 7.5-minute  
 SE, Hanover, 1948, 7.5-minute  
 SW, Whitman, 1948, 7.5-minute  
 NW, Weymouth, 1947, 7.5-minute

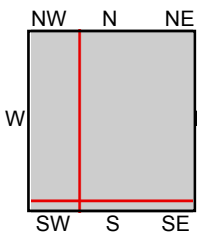
**SITE NAME:** South Shore Regional School  
**ADDRESS:** 476 Webster Street  
 Hanover, MA 02339  
**CLIENT:** O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).

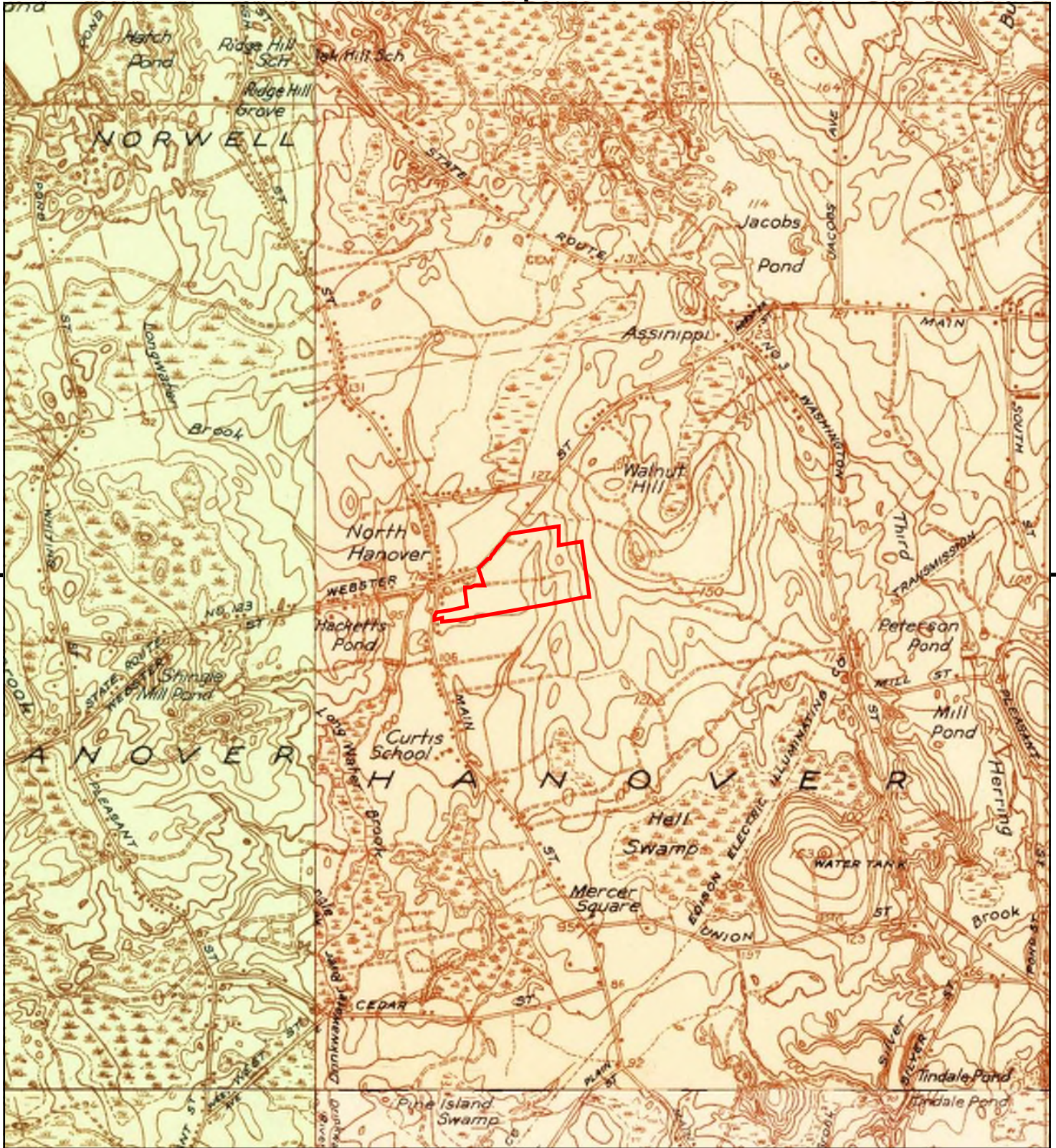


TP, Cohasset, 1941, 7.5-minute  
 SE, Hanover, 1940, 7.5-minute  
 SW, Whitman, 1941, 7.5-minute  
 NW, Weymouth, 1941, 7.5-minute

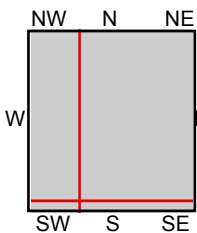
**SITE NAME:** South Shore Regional School  
**ADDRESS:** 476 Webster Street  
 Hanover, MA 02339  
**CLIENT:** O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).

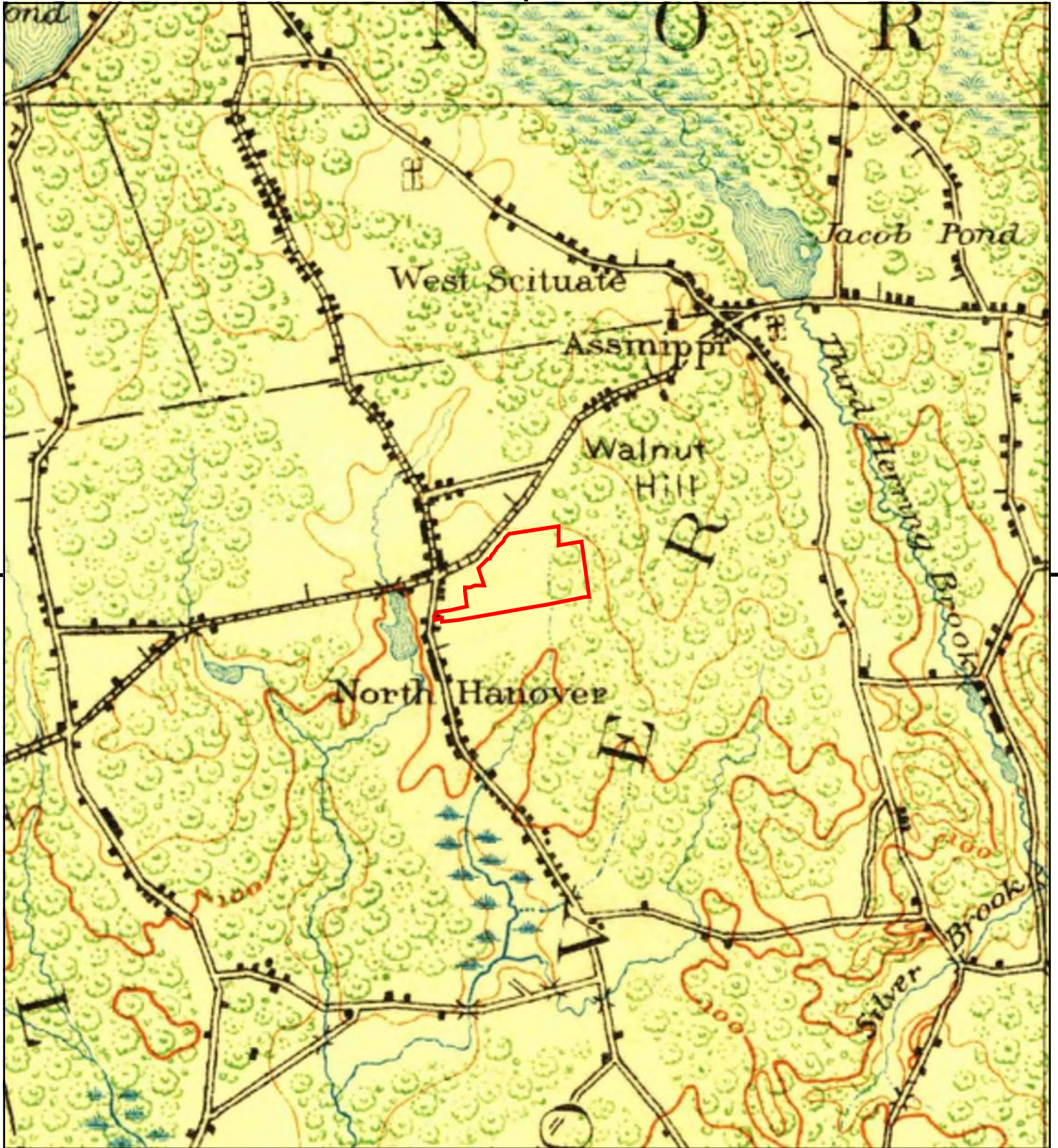


TP, Cohasset, 1936, 7.5-minute  
SE, Hanover, 1935, 7.5-minute  
SW, Whitman, 1936, 7.5-minute  
NW, Weymouth, 1936, 7.5-minute

**SITE NAME:** South Shore Regional School  
**ADDRESS:** 476 Webster Street  
Hanover, MA 02339  
**CLIENT:** O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).

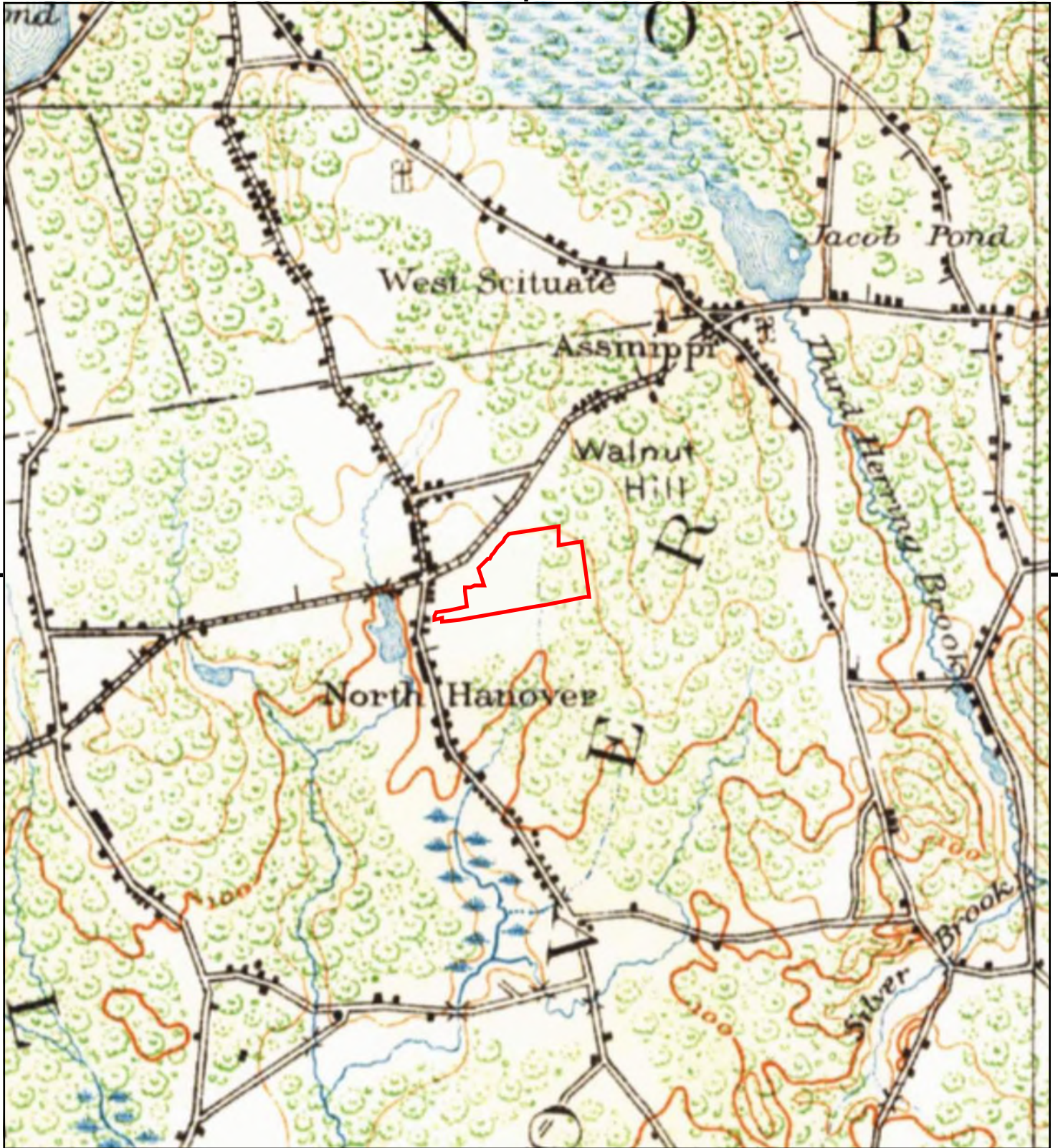


TP, Abington, 1920, 15-minute

SITE NAME: South Shore Regional School  
 ADDRESS: 476 Webster Street  
 Hanover, MA 02339  
 CLIENT: O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).

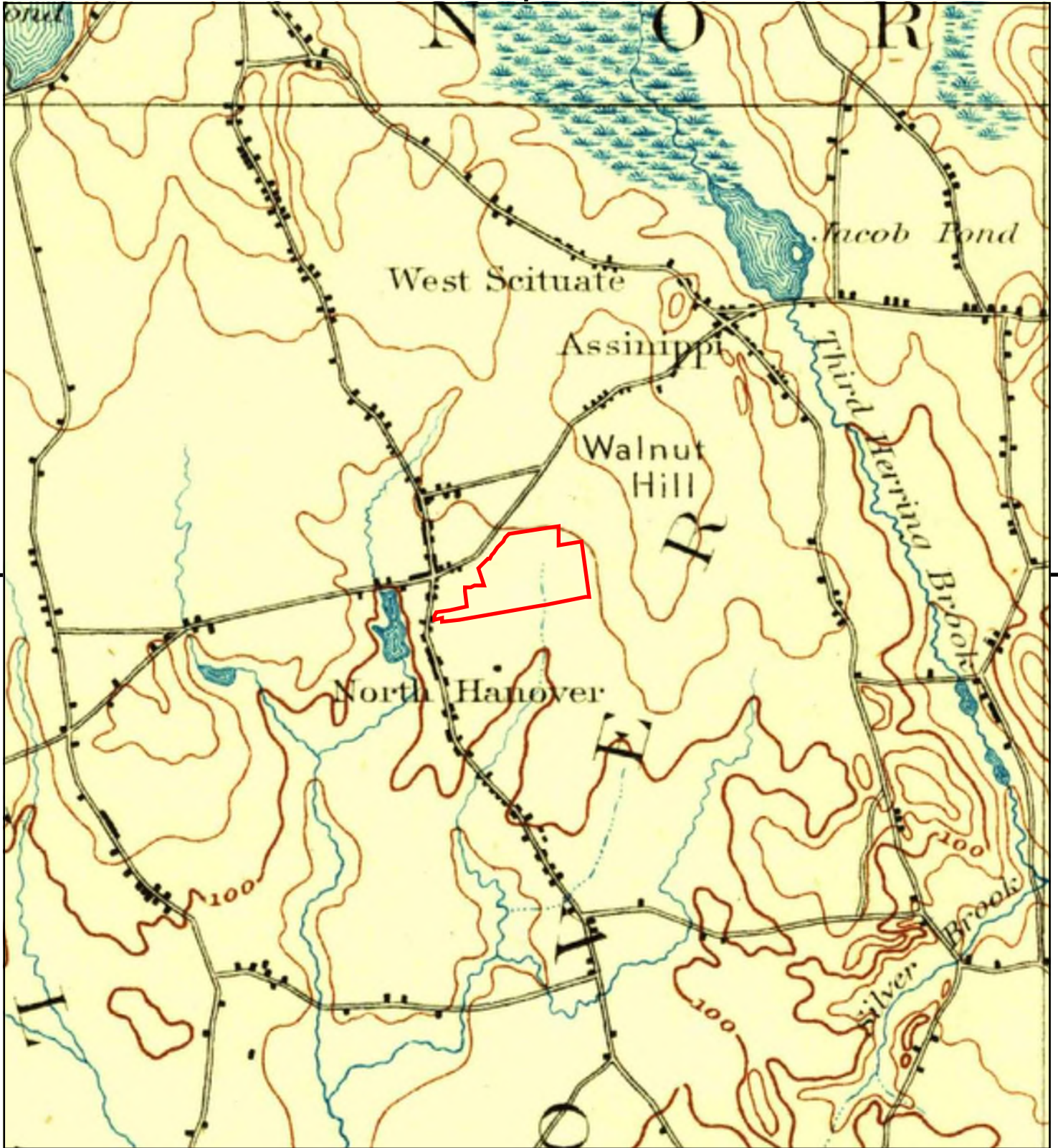


TP, ABINGTON, 1915, 15-minute

SITE NAME: South Shore Regional School  
ADDRESS: 476 Webster Street  
Hanover, MA 02339  
CLIENT: O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).

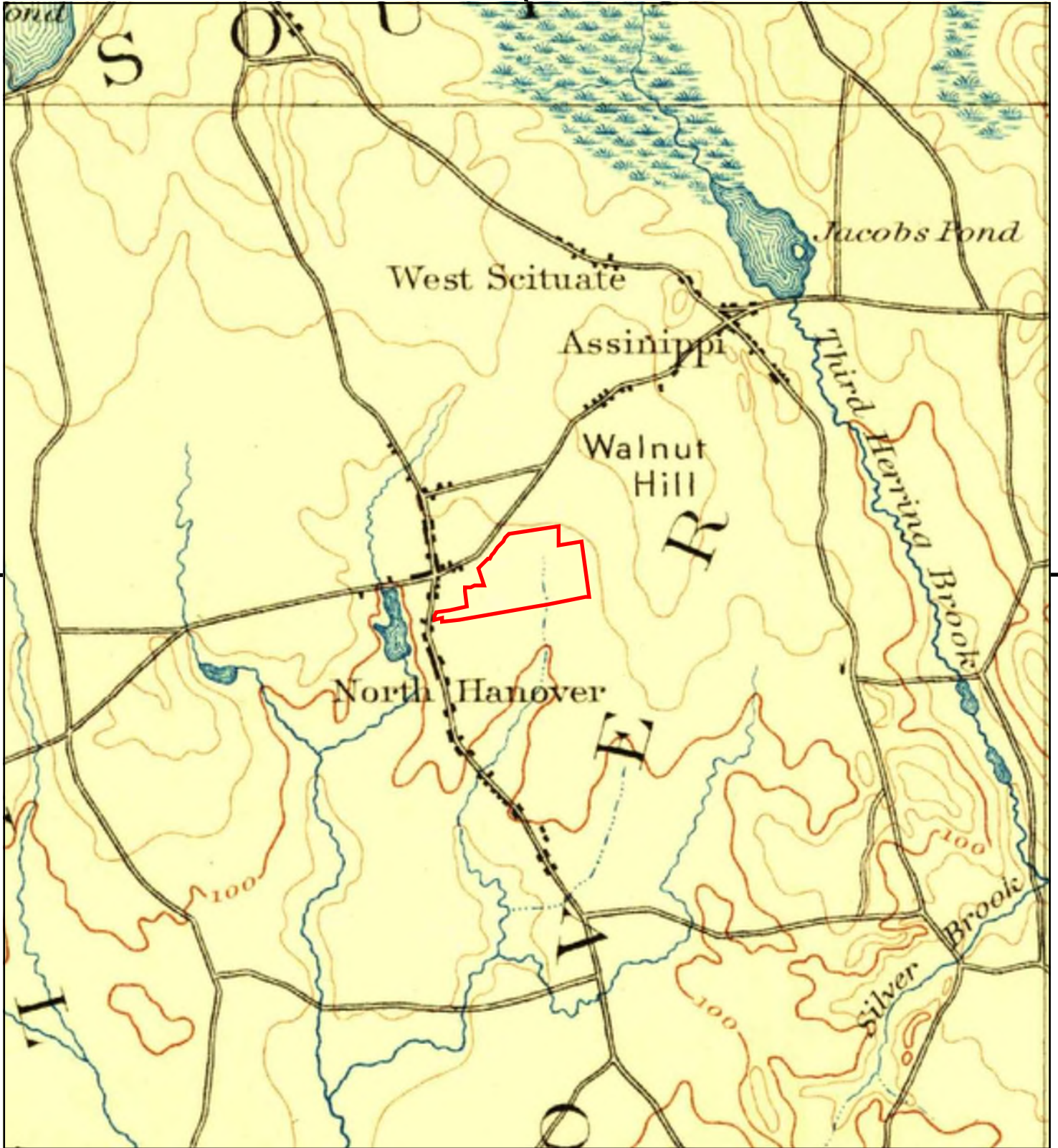


TP, Abington, 1893, 15-minute

SITE NAME: South Shore Regional School  
ADDRESS: 476 Webster Street  
Hanover, MA 02339  
CLIENT: O'Reilly, Talbot & Okun







This report includes information from the following map sheet(s).



TP, Abington, 1888, 15-minute

SITE NAME: South Shore Regional School  
ADDRESS: 476 Webster Street  
Hanover, MA 02339  
CLIENT: O'Reilly, Talbot & Okun





**South Shore Regional School**

476 Webster Street  
Hanover, MA 02339

Inquiry Number: 7444858.5  
September 19, 2023

# The EDR-City Directory Image Report

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

*Thank you for your business.*

Please contact EDR at 1-800-352-0050  
with any questions or comments.

### **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. **NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT.** Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2023 by Environmental Data Resources, LLC. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, LLC, or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.

## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

### RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2020	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2017	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information
2014	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information
2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information
2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information
2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information
1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information
1989	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Criss-Cross Directory
1984	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Criss-Cross Directory

## FINDINGS

### TARGET PROPERTY STREET

476 Webster Street  
Hanover, MA 02339

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

### WEBSTER ST

2020	pg A2	EDR Digital Archive
2017	pg A5	Cole Information
2014	pg A6	Cole Information
2010	pg A9	Cole Information
2005	pg A11	Cole Information
2000	pg A14	Cole Information
1995	pg A17	Cole Information
1992	pg A20	Cole Information
1989	pg A23	Cole Criss-Cross Directory
1984	pg A24	Cole Criss-Cross Directory

## FINDINGS

### CROSS STREETS

No Cross Streets Identified

## **City Directory Images**



**WEBSTER ST 2020**

- 286 Anthony Zammit
- Charles Gaglione
- Kristin Zammit
- 295 Andrew Stevens
- Anne Naff
- Ava McWade
- Charles Naff
- Cory Stevens
- Dale Franceschini
- Diane Franceschini
- Doris Burns
- Elisa Rindini
- Eric Sanders
- Esther Nganga
- Gail Davis
- James Foley
- Janis Burns
- Jennifer Pierce
- Julie Richards
- Lawrence Martin
- Linda Stevens
- Lisa Vanlare
- Margaret Richards
- Maureen Naff
- Meghan Bird
- Michael Vanlare
- Michael Wendt
- Nancy Martino
- Nancy Nicosia
- Patricia Martin
- Robert McWade
- Robert Stevens
- Suzanne Davis
- Tara Wendt
- Vincent Martino
- WEBSTER VILLAGE
- 301 Steven Monks
- 308 Andrew Vermette
- Karen Vermette
- 309 David Zaro
- Tabbitha Zaro
- 318 Chelsea Warner
- Dawn Warner
- William Warner
- 329 Jacklyn Finnigan
- Patricia Finnigan
- Tom Finningan
- 330 Mary Smith
- Russell Smith
- 341 Angela Chiang

**WEBSTER ST 2020 (Cont'd)**

341	Jerry Pham
342	Jennifer Riley
352	Jason Whelan Jessica Whelan
355	ROAD TO RESPONSIBILITY
361	David Ranieri TROUWE HOND K-9
362	Cecelia Taddei Celia Earle Celia Taddei Robert Elloyan
375	Josephine Delkouras Konstantina Delkouras Nikolaos Delkouras
383	Lily Tuleva
417	Alice Heywood Peter Heywood
418	Erick Berg Melissa Berg Roberta Berg
436	Cynthia Schwemin Katie Schwemin Laura Schwemin Louise Schwemin Melissa Schwemin Roy Schwemin
449	Elmer Drotos Julia Drotos
459	Christine Ramos Maurio Ramos Michael Bouchie Steven Dunbar
475	Eric Law
476	AMERICAN FEDERATION-TEACHERS SOUTH SHORE VOC TECH SCHOOL SOUTH SHORE VOCATIONAL
485	Gail Graziano Louis Graziano Michael Graziano
522	Nicholas Pizzi Susan Pizzi
527	David Corbin Eleanor Corbin
528	Annabelle Torres Kathleen Knoblich
534	Daniel Capodilupo
535	Kenneth Lavertue Kurt Lavertue
538	Priscella Maxwell Ralph Burbank

**WEBSTER ST 2020 (Cont'd)**

538	Richard Maxwell
541	Donald Worth
	Laura Stgeorge
	Richard Worth
	William Stgeorge
550	Clayton Parfumorse
	Janelle Massaro
	Missy Parfumorse
	Robert Parfumorse
580	FIRST BAPTIST CHURCH
	LEARNING LADDER PRESCHOOL
587	John Lazzaro
591	Lindsey McNamee
	Stacey McNamee
597	Juliana Clarke
614	Anthony Manna
	Krista Manna
	Robert Manna
625	Carol Patch
633	David Lacatell
	Kate Lacatell
	Kate Lucatell

**WEBSTER ST 2017**

145	BOSTON GARAGE BOSTON GARAGE FLOORING & CABINATES CHEER ESSENTIALS GOSS PHOTO KENTS CARPETLAND WARHOUSE LIVING HOPE FOURSQUARE CHURCH LUBRITE TECHNOLOGIES PREMIERGARAGE VINDALOO MUSIC INC
155	ARAL MANAGEMENT GROUP INC BAY STATE SEAFOOD EXPRESS BLUE MOUNTAIN WOODWORKING CO BROCKTON AREA MULTI SERVICES INC CHEER ESSENTIALS CNC ROUTER SERVICE E F MAGUIRE FLOOR COVERING GENTLE GIANT MOVING COMPANY J & R GRAPHICS KELCO METALS SERVICENTER MAPLE STREET PRESS LLC MR OCEAN SEAFOOD CORP PRINTGRAPHIX INC TUMMIES 2 TEENS
200	BOSTON INTERIORS KENTS CARPETLAND MUSIC UNLIMITED INC ROW & RIDE UNICORN REALTY
222	BRYANTVILLE DELI CHARLESDAVID SALON & SPA FRANNY P BOUTIQUE LULABELLE CO MADISON JAMES & CO
355	ROAD TO RESPONSIBILITY
476	SOUTH SHORE REGIONAL VOCATIONAL TECH
580	THE LEARNING LADDER PRESCHOOL
793	JOHN A PARKER CHIROPRACTOR



-

**WEBSTER ST 2014**

145 BOSTON GARAGE  
 CHEER ESSENTIALS  
 LIVING HOPE FOURSQUARE CHURCH  
 LUBRITE TECHNOLOGIES  
 PREMIERGARAGE  
 REERA, LINDA  
 VINDALOO MUSIC INC  
 155 ADVANCED TECHNICAL RESOURCES INC  
 BAY STATE SEAFOOD EXPRESS  
 BLUE MOUNTAIN WOODWORKING CO  
 BROCKTON AREA MULTI SERVICES INC  
 HOLZMAN ELECTRONICS  
 J & R GRAPHICS  
 KELCO METALS SERVICENTER  
 MR OCEAN SEAFOOD CORP  
 PRINTGRAPHIX INC  
 TUMMIES 2 TEENS  
 199 MCGONIGLE, MICHAEL B  
 200 BOSTON INTERIORS  
 MUSIC UNLIMITED INC  
 222 BRYANTVILLE DELI  
 CHARLESDAVID SALON & SPA  
 LUV MY BRA  
 MADISON JAMES & CO  
 SOUTH SHORE ELECTROLOGY & LASER CENT  
 231 CONNOLLY, EDWARD J  
 232 JOHNSON, ANDREW N  
 235 HERLIHY, ROBERT P  
 251 NEVILLE, GREGORY L  
 262 AFFSA, DEREK E  
 263 OCCUPANT UNKNOWN,  
 271 BORELLI, MICHAEL J  
 272 CONNELLY, WILLIAM J  
 275 MACNEIL, RYAN C  
 283 KANE, MICHAEL W  
 286 ZAMMIT, ANTHONY M  
 295 JOKINEN, CHARLES F  
 301 MONKS, STEVEN W  
 308 VERMETTE, ANDREW  
 309 ZARO, DAVID A  
 318 WARNER, DAWN M  
 329 FINNIGAN, THOMAS J  
 330 SMITH, RUSSELL B  
 341 PHAM, JERRY P  
 342 CRONIN, KEVIN  
 352 FONTAINE, CHRISTOPHER J  
 355 ROAD TO RESPONSIBILITY  
 SANDY, POWERS  
 361 RANIERI, DAVID R  
 374 WINCHELL, EMILY

## WEBSTER ST    2014    (Cont'd)

375	OCCUPANT UNKNOWN,
383	TULEVA, LILY R
417	HEYWOOD, PETER C
418	BERG, ERICK R
428	MAHON, MAUREEN
436	SCHWEMIN, ROY P
449	DROTOS, ELMER J
459	RAMOS, CHRISTINE
475	LAW, ERIC S
476	SOUTH SHORE REGIONAL VOCATIONAL TECH
485	GRAZIANO, LOUIS T
522	PIZZI, NICHOLAS B
527	CORBIN, DAVID E
528	KNOBLICH, KATHLEEN A
534	NATALE, ANGELINA G
535	LAVERTUE, KURT W
538	MAXWELL, RICHARD K
541	OCCUPANT UNKNOWN,
550	OCCUPANT UNKNOWN,
587	LAZZARO, JOHN
591	OCCUPANT UNKNOWN,
597	CLARKE, ANDREW G
602	BOYLE, RYAN B
	JOHNSON, JAMES
	MANN, EDWARD A
	OCCUPANT UNKNOWN,
	WAY, HEATHER
	WEISS, DYLAN
614	OCCUPANT UNKNOWN,
625	ARNOLD, RICHARD P
633	LACATELI, DAVID A
662	BURKE, ANTHONY J
663	LOWE, GEORGE H
671	LESLIE, ROGER A
674	FOUNTAIN, DAVID W
688	SCHNEIDER, MICHEAL G
691	GLASS, LAWRENCE M
	JEFFERSON, CHERYL
	STRACHAN, GEORGE
701	KNIGHT, JEFFREY F
705	BARTLETT, ROBERT P
708	LUTZ, KENNETH K
718	CLARKSON, MICHAEL K
719	ROSANO, JAMES V
729	BARBUTO, FRANK A
738	CONRAD, ROBERT S
747	BUTZBACH, CHRISTOPHER S
753	HARRIGAN, THOMAS J
762	LAUBENSTEIN, CHARLES R
780	TRUSCELLO, MATTHEW W



Target Street

Cross Street

Source

✓

-

Cole Information

**WEBSTER ST 2014 (Cont'd)**

790	CAVANAGH, MICHAEL E
793	PARKER CHIROPRACTIC OFFICES PARKER JOHN A CHIRPRCTR PARKER, JOHN
799	PARKER, BARRY R
808	LEAMAN, WILLIAM F



-

**WEBSTER ST 2010**

145	B L TRADING INC COASTAL CHURCH LUBRITE TECHNOLOGIES PLANET GRANITE & MARBLE FAB VINDALOO MUSIC INC
155	ADVANCED TECHNICAL RESOURCES BAY STATE SEAFOOD EXPRESS BLUE MOUNTAIN WOODWORKING CO CNC ROUTER SVC GEM O RAMA HERO GRAPHICS & PROMOTION INTERNATIONAL CAR PARTS J & R GRAPHICS KELCO METALS SERVICENTER MAGUIRE EF FLOOR COVERING CO MAPLE STREET PRESS LLC MERRIMACK MORTGAGE MR OCEAN SEAFOOD CORP OCEAN STAR PRINTGRAPHIX INC SPECIAL FX INC
200	BOSTON INTERIORS EDWIN WATTS GOLF MUSIC UNLIMITED INC
222	BRYANTVILLE CAFE CHARLES DAVID SALON & SPA FRANNY P BOUTIQUE SOCKIT INC SOUTH SHORE COUNSELING SPEECH
231	CONNOLLY, EDWARD J
235	HERLIHY, ROBERT P
251	FABRIZIO, ALBERT
262	AFFSA, DEREK E
272	CONNELLY, LISA J
275	WINNIE, NATNAIEL H
283	WEBSTER, JENNIFER
286	ZAMMIT, ANTHONY M
301	MONKS, STEVEN W
308	VERMETTE, ANDREW
309	ZARO, DAVID A
318	WARNER, DAWN M
329	FINNIGAN, KATHERINE A
330	SMITH, RUSSELL B
341	PHAM, JERRY P
342	CRONIN, KEVIN
352	FONTAINE, CHRISTOPHER J
355	ROAD TO RESPONSIBILITY SANDY, POWERS
361	RANIERI, DAVID M
374	WINCHELL, ANDY

## WEBSTER ST    2010    (Cont'd)

383	TULEVA, LILY R
417	HEYWOOD, PETER C
418	BERG, RICHARD A
436	SCHWEMIN, ROY P
449	DROTOS, ELMER J
475	LAW, RUTH M
476	SOUTH SHORE VOC TECH SCHOOL
485	GRAZIANO, LOUIS T
522	PIZZI, NICHOLAS B
527	CORBIN, DAVID E
528	MEEHAN, KATHERINE K
534	NATALE, ANGELINA G
535	LAVERTUE, KURT W
538	MAXWELL GROUP INC
541	WORTH, DONALD J
550	BENOIT-PARFUMORSE, MICHELLE B
580	FIRST BAPTIST CHURCHHANOVER FIRST CLASS PRESCHOOL
591	DONOVAN, X KLEENING KREW
597	CLARKE, ANDREW G
602	BRIGHAM, KEN W KING, KENDRA L WAY, HEATHER WILSON, KELLY
625	ARNOLD, RICHARD P
633	LACATELI, DAVID A
662	GRISPI, LESLIE A
663	LOWE, GEORGE H
671	LESLIE, ROGER A
674	FOUNTAIN, DAVID W
688	SCHNEIDER, MICHEAL G
691	THOMPSON, SHANNON E
701	KNIGHT, JEFFREY F
705	BARTLETT, ROBERT P
708	LUTZ, JUDITH A
718	OBRIEN, DAVID M
719	MCDONALD, JOHN S
729	BARBUTO, FRANK A
738	CONRAD, ROBERT S
747	BUTZBACH, CHRISTOPHER S
753	HARRIGAN, THOMAS J
790	CAVANAGH, MICHAEL E
793	PARKER CHIROPRACTIC OFFICES PARKER, ROBERT J

## WEBSTER ST 2005

145	B L SERVICES BL TRADING INC CHARAL GROUP INTERNATIONAL CINA, ANTHONY COASTAL CHURCH LUBRITE TECHNOLOGIES TEMPCO LASER US BRONZE FOUNDRY MACHINE VINDALOO MUSIC INC WARNER SALES ASSOCIATES INC
155	BAY STATE SEAFOOD EXPRESS CORP BLUE MOUNTAIN WOODWORKING CO C P M GRAPHICS COASTAL VALVE FITTING EDWARD MAGUIRE HOLLSTEIN, RICHARD C INTERNATIONAL CAR PARTS J & R GRAPHICS INC KELCO METALS SERVICENTER KINETIC REHABILITATION INSTRUMENTS I MAGUIRE E F & CO MAGUIRE E F FLOOR COVERING CO MARSDEN, W MERRIMACK MORTGAGE INC MULTI MEDICAL SOLUTIONS INC OCEANSTAR FISHERIES PRINTGRAPHIX INC SPECIAL FX INC STANDARD COMMUNICATIONS GROUP LLP TANGMU SEAFOOD PRODUCTS USA INC THOM, BROWN
200	UPHAM, PHILIPS W
222	LUCIANO, S
223	BLANCHARD, JANET A
224	LUCID A RUSSELL
231	CONNOLLY, EDWARD J
232	MAHONEY, MICHELLE
235	HERLIHY, ROBERT P
251	NEVILLE, GREGORY T
262	WHIFFEN, KATHY V
271	BORRELLI, ADAM
272	CONNELLY, LISA J
275	WINNIE, NATNAIEL H
283	KANE, MICHAEL
286	ZAMMIT, ANTHONY M
295	JOKINEN, JEANNE L KARLS RADIATOR
301	MONKS, STEVEN W
308	VERMETTE, ANDREW
318	WARNER, DAWN M

## WEBSTER ST    2005    (Cont'd)

329	DELKOURAS, NIKALOAS
341	PHAM, JERRY P
342	POWERS, BERNARD W
352	MORLEY, ROBERT J
361	DAVID RANIERI
374	VLACO, JOHN
375	DELKOURAS, NICHKOLAOS H
383	JOHNSON, KERRI D
417	HEYWOOD, PETER C
418	BERG, RICHARD A
436	SCHWEMIN, ROY P
449	DRTOS, ELMER J
459	BUILDING CONCEPTS INC
	DUNBAR, RONALD G
475	LAW, RUTH M
476	AMERICAN FEDERATION TEACHERS
	SOUTH SHORE REGIONAL SCHOOL DISTRICT
485	GRAZIANO, LOUIS T
522	PIZZI, NICHOLAS B
528	MEEHAN, KATHERINE K
534	BUCKLEY, JOHN J
535	LAVERTUE, KURT W
538	MAXWELL, RICHARD K
541	STGEORGE, PAUL S
550	PARFUMORE, ROBERT T
580	FIRST BAPTIST CHURCH
	FIRST CLASS PRESCHOOL
587	MORRIS, BARBARA A
591	DONOVAN, KEVIN P
597	CLARKE, ANDREW
602	BOYLE, ROBERT
	BRIGHAM, KEN W
	KING, KENDRA L
	WILSON, KELLY
614	MANNA, ANTHONY E
625	ARNOLD, RICHARD P
633	LACATELI, DAVID A
662	RUSS, MICHAEL A
663	LOWE, GEORGE H
671	LESLIE, ROGER A
674	FOUNTAIN, DAVID W
691	THOMPSON, DAVID A
705	BASILIERE, ROBERT P
708	LUTZ, KENNETH K
718	OBRIEN, DAVID M
719	MCDONALD, JOHN S
729	BARBUTO, FRANK A
738	DAMON, ERIC P
747	BUTZBACH, CHRISTOPHER R
762	BELANGA, SEAN D

Target Street

Cross Street

Source

✓

-

Cole Information

**WEBSTER ST 2005 (Cont'd)**

780	AYKROYD, MEREDITH H
790	CAVANAGH, MICHAEL E
793	PARKER CHIROPRACTIC OFFICES





-

**WEBSTER ST 2000**

145 B L SERVICES  
 BL ASSOCIATES  
 C P M GRAPHICS  
 CHARAL GROUP INTERNATIONAL  
 CINA, ANTHONY  
 COASTAL CHURCH  
 LUBRITE TECHNOLOGIES  
 PCR  
 PERSONAL COMPUTER RESOURCES  
 VINDALOO MUSIC INCORPORATED  
 WARNER SALES ASSOCIATES INCORPORATED  
 155 A 1 WHOLESALE SHELVING & INDUSTRIAL EQUIPMENT COMPANY  
 ADVANCED TECHNICAL RESOURCES INCORPORATED  
 BLUE MOUNTAIN WOODWORKING COMPANY  
 CALIFORNIA EAST LIMITED  
 CNC ROUTER SERVICE  
 CUSTOM FINANCIAL MORTGAGE CORPORATION  
 ELECTRONIC TERMINAL REPAIR  
 GRAPHIC INTERNATIONAL GROUP  
 HANCOCK ELECTRONICS CORPORATION  
 HOLLSTEIN, R C  
 HOLZMAN ELECTRONICS  
 INTERNATIONAL CAR PARTS  
 J & R GRAPHICS  
 KELCO METALS SERVICENTER  
 LINCARE  
 LINWOODS INTERIOR DESIGN STUDIO  
 MAGUIRE E F & COMPANY  
 MAGUIRE E F FLOOR COVERING COMPANY  
 MENTOR O & O COMPANY  
 SPECIAL FX INCORPORATED  
 STURDY CONSTRUCTION D C  
 200 BOSTON INTERIORS  
 DIAPERS ETC INCORPORATED  
 EDWIN WATTS GOLF SHOPS  
 HUB CAP KING  
 INTERNATIONAL WHEEL COVER INCORPORATED  
 MUSIC UNLIMITED INCORPORATED  
 222 BOSTEK INCORPORATED  
 SOCK IT INCORPORATED  
 224 LUCID A RUSSELL  
 LUCID, A R  
 232 COLOMBO, MARILYN A  
 235 HERLIHY, ROBERT P  
 262 BEAN, ANGELA B  
 271 BORELLI, MICHAEL  
 272 CONNELLY, B  
 275 ALVARENGA, OSMAR D  
 283 HAYDEN, JAMES E  
 295 JOKINEN, KARL J



-

**WEBSTER ST 2000 (Cont'd)**

301	MONKS, STEVEN W
308	BURKE, WILLIAM J
309	SPRAGUE, ROBERT M
318	WARNER, DAWN M
330	SMITH, RUSSELL B
342	POWERS, BERNARD W
352	MORLEY, ROBERT J
362	RYAN, CELIA M
374	STEARNS, STEVEN M
417	HEYWOOD, PETER C
418	BERG, RICHARD A
428	ROMANO, STEVE
436	SCHWEMIN, ROY P
449	DRTOS, ELMER J
459	BUILDING CONCEPTS INCORPORATED
475	LAW, RUTH M
476	SOUTH SHORE REG VOC TECHNOLOGY SCHOOL HANOVER CAMPUS
	SOUTH SHORE VOC TECHNOLOGY SCHOOL
	SOUTH SHORE VOC TECHNOLOGY SCHOOL HANOVER CAMPUS
485	EDGERLY, DARLENE
522	PIZZI, N B
527	CORBIN, D
528	MEEHAN, JOHN
534	BUCKLEY, BRIAN C
535	LAVERTUE, KURT
538	BURBANK, RALPH
	MAXWELL, RICHARD
541	STGEORGE, PAUL W
550	BENOIT-PARFUMOR, M
580	FIRST CLASS PRESCHOOL
587	HAMMERSTROM, M A
591	DONOVAN, KAREN A
597	DOYLE D
	DOYLE, DANIEL T
602	MOLISSE, T
	PAGNANO, TINA M
614	MANNA, ANTHONY
625	ARNOLD, RICHARD P
633	LACATELL, DAVID
662	RUSS, MICHAEL
663	LOWE, GEORGE H
671	LESLIE FOODS
	LESLIE ROGER A
	LESLIE, ROGER A
	VINCENTS
674	CAMBAL, ANNE E
	FOUNTAIN, DAVID W
688	SCHNEIDER, MIKE
691	RICCIO, ARMANDO J
	THOMPSON, DAVID

**WEBSTER ST 2000 (Cont'd)**

701 KNIGHT, JEFFREY  
705 BASILIERE, ROBERT P  
708 LUTZ, JUDITH A  
718 BISON, MICHAEL H  
719 BARBUTO, PETER  
729 BARBUTO, FRANK  
747 RICHARDSON, BARBARA L  
753 CHURCHILL, DOROTHY A  
771 HARRINGTON, DONALD  
780 AYKROYD, DONALD A  
790 CAVANAGH, MICHAEL  
793 PARKER CHIROPRACTIC OFFICES  
PARKER, ROBERT J  
799 PARKER, BARRY  
808 RIPLEY, LOUISE E



-

**WEBSTER ST 1995**

145	B L SERVICES BL ASSOCIATES BUSINESS INFORMATION SOLUTIONS INC CHARAL GROUP INTERNATIONAL-DATA CHARAL GROUP INTERNATIONAL-VOICE PCR PERSONAL COMPUTER RESOURCES WARNER SALES ASSOC INC WHELLER-BLAKE CORP
155	AARON INC B M I, SALVAGE COLE R H ASSOC H & O PROVISIONS HRT INC J & R GRAPHICS KINETIC REHABILITAION INSTRUMENTS INC KITCHEN CLASSICS KRI INC MAGUIRE E F & CO MAGUIRE E F FLOOR COVERING CO MENTOR O & O CO MERLIN MANUFACTURING CO NORTH EAST SURGICAL TOOL CO INC O'BRIEN INSTALLATIONS SABIAN INC SOUTH SHORE VISITING NURSE ASSOC-COASTAL OFC VISITING NURSE OF THE SOUTH SHORE
200	BOSTON INTERIORS EDWIN WATTS GOLF SHOPS HUB CAP KING INTERNATIONAL WHEEL COVER INC
222	BOSTEK INC LUCID, A RUSSELL SOCK-IT INC
235	HERLIHY, ROBT P
262	BEAN, WESTON G
263	DOUCETTE, LEON J
271	NORTON, CHRISTOPHER
283	HAYDEN, JAS E
286	D'ITALIA, C
295	JOKINEN, CHAS F, JR
301	COPP, GARY MONKS, GEO JR & ELEANOR
308	BURKE, M BURKE, WM J
309	SPRAGUE, ROBT M
318	WARNER, WM & D
342	POWERS, BERNARD W
352	MORLEY, ROBT J
355	ALLEN, L J



-

**WEBSTER ST 1995 (Cont'd)**

355 CROMMETT, MILDRED B  
 362 RYAN, EDW P & CECELIA  
 374 STEARNS, STEVEN M  
 417 HEYWOOD, PETER C  
 428 BEERS, JOHN H  
 449 DROTOS, ELMER J  
 459 LAFOND, G A  
 STEWART, L A  
 475 LAW, R M  
 476 SOUTH SHORE REG VOC TECH SCHL HANOVER CAMPUS HEALTH ROOMM  
 SOUTH SHORE REG VOC TECH SCHL HANOVER CAMPUS SHOPP  
 SOUTH SHORE VOC TECH SCHL-HANOVER CAMPUS-CENTRAL OFCC  
 485 EDGERLY, ROBT & DARLENE  
 EDGERLY, ROBT F, PSYCHOLGST  
 527 HANLON, JAMES M  
 535 LAVERTUE, KURT  
 538 BURBANK, RALPH  
 MAXWELL, RICHARD  
 541 ST GEORGE, P W  
 550 BENOIT-PARFUMORSE, M  
 580 FIRST CLASS PRESCHOOL  
 587 HAMMERSTROM, M A  
 597 DOYLE, D & P  
 DOYLE, DANL T  
 602 LEE, PATTIE  
 RYAN, SEAN  
 614 MANNA, ANTHONY  
 625 ARNOLD, RICHARD P  
 633 CALLAHAN, THOS H  
 662 GRAVES, STEVEN W & MELINDA  
 663 LOWE, GEO H  
 671 LESLIE, ROGER A  
 LESLIE, ROGER A-RES  
 VINCENT'S  
 674 FOUNTAIN, DAVID W  
 688 CORWIN, A & J  
 691 MCCULLOUGH, JOSEPH & LINDA  
 THOMPSON, DAVID  
 708 LUTZ, P KENNETH & JUDEE  
 718 HACKETT, JOS M  
 719 BARBUTO, PETER M  
 729 SHANKS, JOHN A  
 747 RICHARDSON, WESLEY C  
 753 CHURCHILL, PERCY L  
 771 HARRINGTON, DONALD  
 780 AYKROYD, DONALD A  
 790 CAVANAGH, MICHAEL & DEBORAH  
 793 PARKER CHIROPRACTIC OFFICES  
 PARKER, JOHN A, CHIRPRCTR  
 PARKER, ROBT J

Target Street

Cross Street

Source

✓

-

Cole Information

**WEBSTER ST 1995 (Cont'd)**

799 PARKER, BARRY  
808 PETTIE, ALEX  
RIPLEY, LEON K





-

**WEBSTER ST 1992**

145 ARIEL DESIGN INC  
 BL ASSOCIATES  
 BUSINESS INFORMATION SOLUTIONS INC  
 CHARAL GROUP INTERNATIONAL  
 DATA CONSULTANTS SERVICES  
 155 A-1 WHOLESALE SHELVING INC  
 AUCTION CENTER THE  
 AUTOMATIC FIRE PROTECTION INC  
 BETHCO TRANSPORTATION INC  
 COOPERVISION INC SPECTRA PRODUCTS GROUP  
 H & O PROVISIONS  
 HRT INC  
 INTER TECHNOLOGY INC  
 MAGUIRE E F & CO  
 MAGUIRE E F FLOOR COVERING CO  
 NICHOLAS EQUIPMENT CORP  
 NORTH EAST SURGICAL TOOL CO INC  
 RESEARCH BUSINESS GROUP  
 SABIAN INC  
 SOUTH SHORE VISITING NURSE ASSOC-COASTAL OFC  
 VELEZ CLEANING SERVICE  
 VISITING NURSEOF THE SOUTH SHORE  
 200 BOSTON INTERIORS  
 EDWIN WATTS GOLF SHOPS  
 HUB CAP KING  
 INTERNATIONAL WHEEL COVER INC  
 222 BOSTEK  
 MATHERLY CONSULTING ASSOCIATES  
 SOCK-IT INC  
 224 HIGHPOINT INTERIORS INC  
 MATERA TILE & BRICK CO INC  
 231 ULWICK, DOUGLAS P  
 235 HERLIHY, ROBT P  
 262 BEAN, WESTON G  
 263 DOUCETTE, LEON J  
 271 BURWOOD, M A  
 SCHMID, JOHN  
 283 HAYDEN, JAS E  
 286 D'ITALIA, C  
 295 JOKINEN, CHAS F, JR  
 301 MONKS, GEO JR & ELEANOR  
 308 BURKE, WM J  
 309 SPRAGUE, ROBT M  
 318 WARNER, WM & D  
 342 POWERS, BERNARD W  
 352 SCHNEIDER, STEPHEN  
 355 CROMMETT, MILDRED B  
 362 RYAN, EDW P & CECELIA  
 374 MARTIN, ARNIE  
 STEARNS, STEVEN M



-

**WEBSTER ST 1992 (Cont'd)**

417 HEYWOOD, PETER C  
 428 BEERS, JOHN H  
 436 CONSALVI, JAS & ROBERTA  
 449 DRTOS, ELMER J  
 459 LAFOND, G A  
 STEWART, L A  
 475 LAW, R M  
 476 SOUTH SHORE REG VOC TECH SCHL-HANOVER CAMPUS-CENTRAL OFFICE  
 SOUTH SHORE REG VOC TECH SCHL-HANOVER CAMPUS-HEALTH ROOM  
 SOUTH SHORE REG VOC TECH SCHL-HANOVER CAMPUS-SHOP  
 485 EDGERLY, ROBT & DARLENE  
 EDGERLY, ROBT F, PSYCHOLGST  
 527 SULLIVAN, JOHN & VIRGINIA  
 534 JORDAN, BRUCE  
 STRAUGHN, J  
 535 LAVERTUE, KURT  
 538 BURBANK, RALPH  
 MAXWELL, RICHARD  
 541 STGEORGE, P W  
 550 BENOIT-PARFUMORSE, M  
 580 FIRST CLASS PRESCHOOL  
 587 HAMMERSTROM, M A  
 597 DOYLE, DANL T  
 602 COADY, J  
 HUBBARD, P E  
 614 MANNA, ANTHONY  
 625 ARNOLD, RICHARD P  
 633 CALLAHAN, THOS H  
 662 DEON, THOMAS  
 GRAVES, STEVEN W & MELINDA  
 663 LOWE, GEO H  
 671 LESLIE, ROGER A  
 LESLIE, ROGER A-RES  
 VINCENT'S  
 674 FOUNTAIN, DAVID W  
 688 CORWIN, A & J  
 691 OTTOLINI, DAVID  
 THOMPSON, DAVID  
 701 QUINDLEY, ROGER H  
 708 LUTZ, KERRI A  
 LUTZ, P KENNETH & JUDEE  
 718 HACKETT, JOS M  
 719 DABROWSKI, MICHAEL & FRANCES  
 729 SHANKS, JOHN A  
 747 RICHARDSON, WESLEY C  
 753 CHURCHILL, PERCY L  
 771 HARRINGTON, DONALD  
 780 AYKROYD, DONALD A  
 790 CAVANAGH, MICHAEL & DEBORAH  
 793 PARKER CHIROPRACTIC OFFICES

Target Street

Cross Street

Source

✓

-

Cole Information

**WEBSTER ST 1992 (Cont'd)**

793	PARKER, JOHN A, CHIRPRCTR
	PARKER, ROBT J
808	RIPLEY, LEON K

WEBSTER ST 1989

Address	Name	Phone
200	Edwin Watts Golf S	871-8961
222	Designer Tiles	871-8720
224	Matera Tile&Brick	878-9393
231	Douglas P Herwick	871-5084
235	Robert P Herlihy	878-9367
255	NP	
262	Weston G Bean	871-2168
263	Leon J Doucette	878-2553
271	NP	
272	Margaret T Snyder	871-8815
283	James E Hayden	878-7735
286	C D'Italia	878-6609
285	Charles F Jokinen	878-1205
301	George Monke Jr	878-7638
308	William J Burke	878-8775
309	Robert M Sprague	878-8057
319	Fredk E Norriss	871-1587
330	George E McDermott	878-4791
337	NP	
342	Bernard W Powers	871-9882
352	Robert E Schneider	878-3523
355	Mahred B Emmert	878-0464
362	Edward P Ryan	871-5916
374	Arne Martin	871-5996
	Steven M Stearns	871-8056
417	Peter C Heywood	878-6619
428	John H Beers	871-0084
436	Daniel Baker	878-7105
449	L E Bergeron Jr	878-7604
457	NP	
459	Ronald Dunbar	878-2358
475	R M Law	878-4298
476	Stn Shre Reg Voc	871-4153
	* So Shore Voc Schol	878-8822
	* So Shore Voc Schol	878-8826
	* South Shr Msh Rm	871-0262
485	Robert Edgerly	871-7818
	* Dr Robt F Edgerly	871-1936
	R Grote	878-7189
527	Wm J Doherty	871-4936
534	Tim Fitzgerald	871-3692
535	NP	
538	Mrs Ralph Burbank	878-9022
	Richard Maxwell	878-9072
541	P W St George	871-7767
542	NP	
550	Daniel Ferguson	871-4470
	Daniel F Ferguson	878-3441
567	M A Hammerstrom	878-6826
581	Henry Newcomb	878-2135
587	Daniel T Doyle	871-6377
602	P E Hubbard	878-4851
	Chris Staper	878-4158
614	Anthony Manna	878-9235
625	Richard P Arnold	878-4687
633	S Rodner	878-4409
647	NP	
662	Arthur J Thornton	878-2477
	Robert Thornton	871-1275
663	George H Lowe	871-1444
671	Roger A Leslie	878-5265
	* Vincents Foto Cbp	878-5265
674	David W Fountain	878-1213
688	Stephen W Dempsey	878-2389
691	David Thompson	871-1863
701	Roger H Dandley	878-6459
708	P Kenneth Lutz	871-5531
718	Joseph M Hackett	878-1864
719	NP	
729	John A Shanks	871-8045
747	G E Richardson	871-3499
	W E Richardson	878-4568
753	Percy L Churchill	878-9413
771	Donald Harrington	878-0909
780	Donald A Aikreyd	878-1199
790	Michael Cavanagh	871-1582
793	* Parker Chiroprate	871-6166
	* Dr John A Parker	871-6166
	Robert J Parker	871-6168
806	Leon K Ripley	878-8493
813	Joseph Lee	878-3886
	Joseph Lee	878-6891
821	David A Udham	878-2413
824	Walter Horkus Jr	871-0745
832	Arthur R Decker	878-3888
835	Stephen C Miller	871-2357
840	NP	
842	Chas E Vanbuckek	878-4764
850	Robert E Conans	871-0469
855	William Harley	878-9255
863	J Costa	871-9079
	C Johnson	871-0885
	M McInnis	871-0835
	Robt D Peasph	871-8097
866	S Dyer	878-3729
875	Russell H Vargus	878-1255
878	Clarence O Dodge	871-0063
884	George E Shanks	871-5344
891	John F Sheehan	878-4903
912	* Auro Hospital	878-5772
932	Thomas Woodcock	878-6527
	R Frank Eika	878-1659
957	Peter Woodward	871-5174
971	* Riddies Food Mart	878-1941
973	Kenneth W Osborne	871-5653
975	NP	
976	Ernest G Ellery	871-0438
982	Melvin Gausley	878-4074
	Robert W Gausley	878-2886
983	Dana Leonard	871-6224
983	Roland R Chapman	878-5588
996	Herman Hahn	871-0728
1007	Stanley R Hillis	878-3521
1010	Basal J Gilkin	878-4055
1015	Ernest Hill Sr	878-3900
1045	David Capacochi	871-3733
1054	Leonard L Young	878-6172
1083	Avito Dicitco	878-4954
1084	George J Duffy	878-8675
1094	Richard Kamppala	878-6303
1100	D T MacAshin	878-6544
1108	S E Henry	878-6481
	P L White	878-5483
1123	E Hemmings	878-6156
1141	Lawrence C Burke	871-0719
1151	Bernard A Parker	878-8390
1163	C Cushman	878-7072
1169	William D Gorman	878-3589
1177	* Kae Cedarstrom	878-8054
	K G Cedarstrom	871-1918
1200	NP	

**WEBSTER ST 1984**

127 Residence	20 Business
<b>WEBSTER ST 02339</b>	
Begins Rockland	
Line Runs Easterly	
Ends Washington St	
Hanover	
039600	
.63	.NP
*66 Pmts Travel	878-2265
*Pmts Travel	878-0056
104 Barmicoat N and Co	878-1633
*One Two Three Bycl	878-0210
105	.NP
125 Dr L Pizzi Albert	878-7333
*Dr Mark E Donelan	878-7333
*Dr Albert L Pizzi	878-7333
135 Associates in Ear	871-3630
*Associates in Ear	826-2124
*Dr A Beszlerczy	871-3300
*Dr K Bloomingdale	871-3300
Alex R Gruber	.82 871-3300
*Hanover Obstetrics	878-7020
*Dr C Kylander	826-2124
*Dr C E Kylander	871-3630
*Dr Albert H Marcus	878-7020
*Dr G J Poukoti	878-7020
Stanley R Sacor	.82 871-3300
*S Shra Counseling	871-3300
*Dr G A Wasserman	878-7020
136 Charles H Rendler	.68 878-5857
222 C M Frattono	.80 878-2748
255 262	.NP
263 Leon J Doucette	.79 878-2553
271	.NP
283 James E Hayden	.79 878-7735
286 C O'Itala	.80 878-6609
295 Charles F Jokinen	.79 878-1205
301 George Monas Jr	.82 878-7639
308 William J Burke	.71 878-8775
319 Frederick E Norvan	.79 871-1587
330 George E McDermott	.67 878-4791
337	.NP
342 Bernard W Powers	.77 878-4697
352 Robert E Schneider	.69 878-3923
355 Mildred B Crommett	.80 878-0464
362 Edward P Ryan	.79 878-5916
374 Paul Hamilton	.81 871-0399
417	.NP
428 Patricia Dairymple	.79 871-0084
436 James Consalvi	.81 878-7705
449 L E Bergeron Jr	.70 878-7604
457	.NP
459 Ronald Dunbar	.70 878-2358
475 R M Saw	.81 878-4298
527	.NP
534 Thomas Lesko	.82 871-1589
535 Alarms United Inc	878-9395
A D Lavertue	.82 871-4260
Eugene P Lavertue	.76 878-6228
538 Mrs Ralph Burbank	.71 878-9022
Richard Maxwell	.71 878-9022
542	.NP
550 Daniel Ferguson	.82 871-4470
Daniel F Ferguson	.77 878-3447
587 M A Hammerstrom	.71 878-5826
591 Henry Newcomb	.67 878-2135
597 Roger Hurd	.79 878-6392
602 Kerry Henderson	.80 878-1373
614 Anthony Marina	.67 878-9235
625 Berna Fish	878-1639
633 Herbin M Luendig	.82 878-8838
647 David W Fountain	.79 878-1213
662 Arthur J Thornton	.63 878-7473
663 George H Lowe	.74 871-1444
671 Roger A Leslie	.67 878-5265
*Vincent's Potato	878-5265
674	.NP
688 Stephen W Dempsey	.77 878-2389
691 Amy E Thompson	.72 878-6265
701	.NP
706 James D Kotala	.79 871-2224
718 Joseph M Hackett	.70 878-1864
719	.NP
729 Clyde W Harrington	.75 878-1151
747 W C Richardson	.66 878-4568
753 Percy L Churchill	.72 878-9413
771 Donald Harrington	.79 878-0909
780 Donald A Ayrtoyd	.71 878-1199
790 Michael Cavanagh	.79 871-1582
808 Leon K Rapley	.67 878-8893
813 Joseph Lee	.72 878-6891
821 David A Ordham	.63 878-2413
824 Walter Norvus Jr	.71 871-0745
832 Arthur R Deekar	.72 878-3688
835 Joseph Lee	.79 878-3886
840	.NP
842 C E Vanouskirk	.72 878-4764
850 Robert E Conant	.71 871-0469
855 William Hulley	.63 878-9255
863 Michael Studley	.81 871-1069
D Vareka	.80 871-3761
868 D M English	.80 871-0715
875 Russell H Vargus	.68 878-1255
876 Clarence O Dodge	.71 871-0063
811 John P Sheehan	.72 878-4903
812 Georges Auto Repair	878-6772
*Georges Auto Repair	878-6744
832 Frank Amos	.71 878-4785
957 Douglas A Bennett	.80 878-8703
971 Leslie's Variety	878-1841
973 Paul F Casey	.82 878-6075
George E Shepherd	.82 878-6075
975	.NP

# APPENDIX G



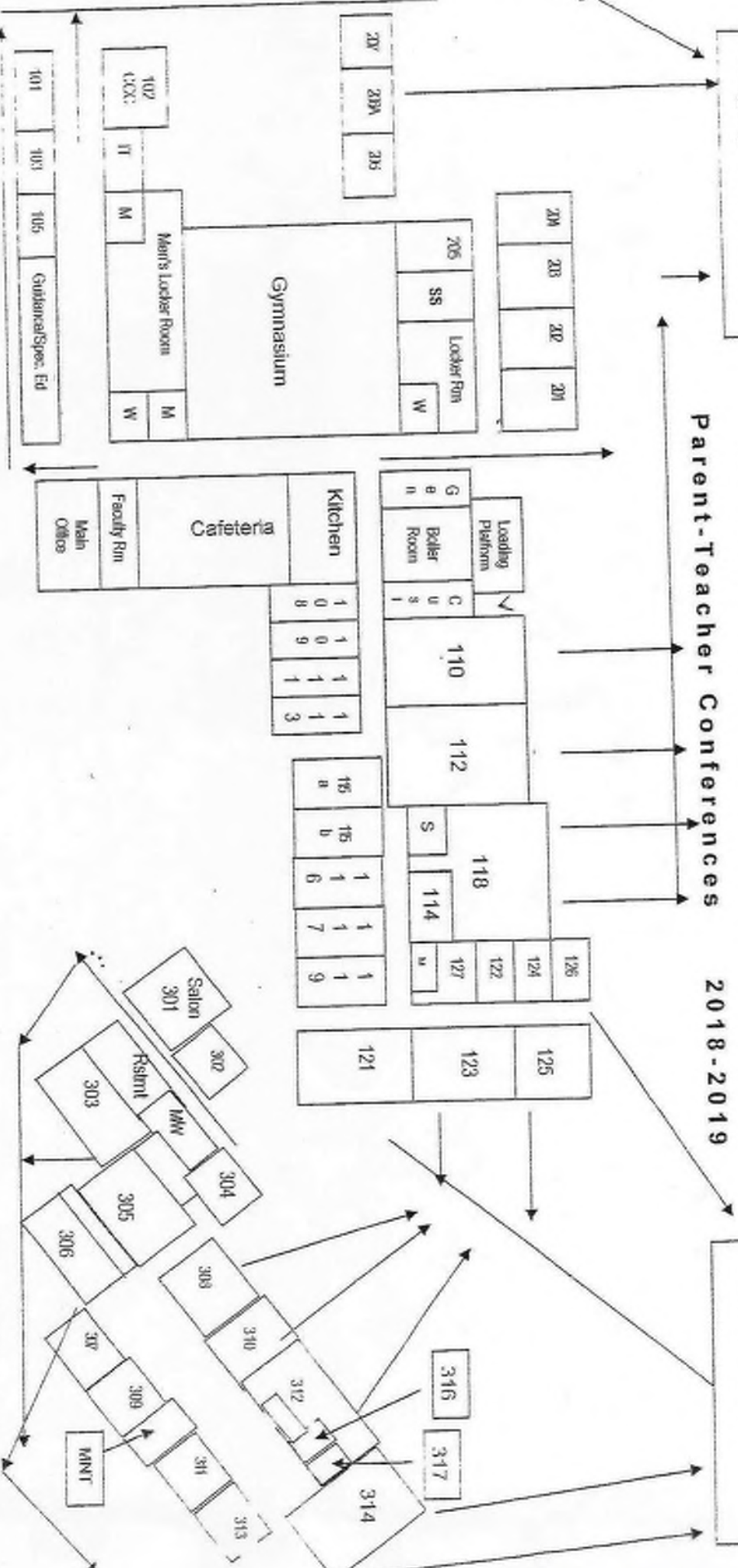
Staging Areas 1 & 2

**SOUTH SHORE VOCATIONAL TECHNICAL HIGH SCHOOL**

2018-2019

Staging Area #3

Parent-Teacher Conferences



- 101 Chaubertain/Bova
- 102 Glass - CCC - Henderson
- 103 Keith
- 104 Davis
- 105 Nurse
- 108 E Brennan
- 109 CARPENTRY
- 110
- 111
- 112 MET #1 (Gentile/Freitas)
- 113 Provost

- 114 Stephens
- 115a Savage
- 115b Bourgea
- 116 Walsh
- 117 Palmer
- 118 METAL FABRICATION
- 119 Mandeville
- 121 ALLIED HEALTH
- 122 Mahoney
- 123 HVAC-R
- 124 Golden
- 125 AUTOMOTIVE TECH
- 126 Lombardi
- 127

- 201 Cromack
- 202 Mathisen
- 203 Shaw
- 204 H Brennan
- 205 Falano
- 206 Marani
- 206A Matthews
- 207 Balaban
- 301 COSMETOLOGY
- 302
- 303 CULINARY ARTS
- 304 Doherty
- 305 LECTURE HALL

- 306 MET #2 C Johnson/Barba
- 307 Doyle
- 308 HORTICULTURE
- 309
- 310 ELECTRICAL
- 311 COMPUTER INFO TECH
- 312 GRAPHIC COMM
- 314 COLLISON REPAIR TECH
- 316
- 317
- 318
- 319
- 320
- 321
- 322
- 323
- 324
- 325
- 326
- 327
- 328
- 329
- 330
- 331
- 332
- 333
- 334
- 335
- 336
- 337
- 338
- 339
- 340
- 341
- 342
- 343
- 344
- 345
- 346
- 347
- 348
- 349
- 350
- 351
- 352
- 353
- 354
- 355
- 356
- 357
- 358
- 359
- 360
- 361
- 362
- 363
- 364
- 365
- 366
- 367
- 368
- 369
- 370
- 371
- 372
- 373
- 374
- 375
- 376
- 377
- 378
- 379
- 380
- 381
- 382
- 383
- 384
- 385
- 386
- 387
- 388
- 389
- 390
- 391
- 392
- 393
- 394
- 395
- 396
- 397
- 398
- 399
- 400

TOPO	UTILITIES	STRT/ROAD	LOCATION	DESCRIPTION	CODE	APPRaised	Assessed
				EXEMPT	9921	26,125,800	26,125,800
				EXM LAND	9921	4,306,000	4,306,000
Total		30,431,800		30,431,800		30,431,800	

Year	Code	Assessed	Year	Code	Assessed	Year	Code	Assessed
2023	9921	26,125,800	2023	9921	26,125,800	2022	9921	20,858,400
9921		4,306,000	9921		4,306,000	9921		3,751,400
Total		30,431,800	Total		30,431,800	Total		24,609,800

Year	Code	Amount	Code	Description	Number	Amount	Comm Int
<b>EXEMPTIONS</b>							
<b>OTHER ASSESSMENTS</b>							
Total							

Nbhd	Nbhd Name	Tracing	Batch
0001	B		

Year	Code	Assessed	Year	Code	Assessed	Year	Code	Assessed
<b>APPRaised VALUE SUMMARY</b>								
Appraised Bldg. Value (Card)			25,751,000					
Appraised XI (B) Value (Bldg)			76,900					
Appraised Ob (B) Value (Bldg)			297,900					
Appraised Land Value (Bldg)			4,306,000					
Special Land Value			0					
Total Appraised Parcel Value			30,431,800					
Valuation Method			C					

Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments
B 20-280	06-25-2020	RE	Remodel	460,000		100		
B 20-295	06-17-2020	NC	New Construct	8,000		100		
B-18-536	09-18-2018	CM	Commercial	75,000		100		
B-18-530	09-14-2018	MS	Miscellaneous	8,000		100		
B 16 525	10-17-2016	NC	New Construct	400,000		100		
B 14 346	08-05-2014	SD	Shed			100		
13-266	07-03-2013	AD	Addition		08-12-2014	100		

Use Code	Description	Zone	Land Type	Land Units	Unit Price	I. Factor	Site Index	Cond.	Nbhd.	Nbhd Adj	Notes
1	9921	COUNTY IMPRO	R	16,000	AC	254,400.00	1.00000	2	1.00	1,000	SITE 5-1
1	9921	COUNTY IMPRO	R	30,600	AC	7,700.00	1.00000			1,000	
				Total Card Land Units	46.60	AC					
				Parcel Total Land Area:	46.60						
				Total Land Value							4,306,000

Date	lg	Type	ls	Cd	Purpose/Result
08-02-2021	RC	08		01	Measured & inspected
02-24-2017	DT			11	Reval Field Review
12-28-2016	RC			31	Permit measured
08-27-2014	AD			11	Reval Field Review
08-12-2014	RC	02		30	Permit M&L
01-14-2010	DLS	04		32	Permit inspection
08-03-2007	KC			00	Reval visit

CURRENT OWNER	TOPO	UTILITIES	STRT/ROAD	LOCATION	DESCRIPTION	CODE	APPRAISED	ASSESSED	906
SOUTH SHORE REGIONAL SCHOOL					EXEMPT	9921	26,125,800	26,125,800	
TOWN HALL					EXM LAND	9921	4,306,000	4,306,000	
550 HANOVER STREET									HANOVER, MA
HANOVER MA 02339									
SUPPLEMENTAL DATA					VISION				
Alt Pric ID					Treas/Col				
Bidg No					Cyclicals 2024				
Subdivisio					Frontage				
Unit No(s)					Assess MI				
Conserv					Assess MI				
Conserv					Assess MI				
GIS ID: M_252702_877579					Assoc Pld#				

RECORD OF OWNERSHIP	BK/VOL/PAGE	SALE DATE	QU	VI	SALE PRICE	VC	Year	Code	Assessed	Year	Code	Assessed
							2023	9921	26,125,800	2023	9921	26,125,800
								9921	4,306,000		9921	4,306,000
Total							30,431,800		30,431,800		30,431,800	
PREVIOUS ASSESSMENTS (HISTORY)												
Total							30,431,800		30,431,800		30,431,800	

EXEMPTIONS	Amount	Code	DESCRIPTION	NUMBER	Amount	OTHER ASSESSMENTS	Code	DESCRIPTION	NUMBER	Amount	COMMENTS
Total											

ASSESSING NEIGHBORHOOD	Nbhd	Nbhd Name	B	Tracing	Batch
	0001				

NOTES

BUILDING PERMIT RECORD									
Permit ID	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments	

LAND LINE VALUATION SECTION														
Use Code	Description	Zone	Land Type	Land Units	Unit Price	I. Factor	Site Index	Cond	Nbhd	Nbhd Adj	Notes	Location Adjustment	Adj Unit Pric	Land Value
Total Card Land Units														
Parcel Total Land Area:														
Total Land Value 4,306,000														

APPRAISED VALUE SUMMARY									
Appraised Bldg. Value (Card)	Appraised Xt (B) Value (Bldg)	Appraised Ob (B) Value (Bldg)	Appraised Land Value (Bldg)	Special Land Value	Total Appraised Parcel Value				
25,751,000	76,900	297,900	4,306,000	0	30,431,800				

VISIT/CHANGE HISTORY									
Date	ID	Type	IS	CD	Purpose/Result				

CURRENT OWNER	TOPO	UTILITIES	STRT/ROAD	LOCATION	DESCRIPTION	CODE	APPRaised	ASSESSED	908
SOUTH SHORE REGIONAL SCHOOL					EXEMPT	9921	26,125,800	26,125,800	
TOWN HALL					EXM LAND	9921	4,306,000	4,306,000	
560 HANOVER STREET									HANOVER, MA
HANOVER MA 02339									
SUPPLEMENTAL DATA Alt PrclID Bldg No Subdivisic Unit No(s) Conserv Conserv GIS ID: M_252702_877579 Assoc Pld#					Treas/Col Cyclicals Frontage Assess Mt Assess Mt 2024				

RECORD OF OWNERSHIP	BK/VOL/PAGE	SALE DATE	QU	VI	SALE PRICE	VC	Year	Code	Assessed	Year	Code	Assessed	Year	Code	Assessed
							2023	9921	26,125,800	2023	9921	26,125,800	2022	9921	20,858,400
								9921	4,306,000		9921	4,306,000		9921	3,751,400
Total									30,431,800			30,431,800			24,609,800

EXEMPTIONS	DESCRIPTION	AMOUNT	CODE	DESCRIPTION	NUMBER	AMOUNT	OTHER ASSESSMENTS	NUMBER	AMOUNT	COMM INT
ASSESSING NEIGHBORHOOD										
Nbhd										
0001										
NOTES										

BUILDING PERMIT RECORD	ISSUE DATE	TYPE	DESCRIPTION	AMOUNT	INSPECTION DATE	% COMP	DATE COMP	COMMENTS
Permit ID								
Total Appraised Parcel Value: 30,431,800								

APPRaised VALUE SUMMARY	APPRaised Bldg. Value (Card)	25,751,000
APPRaised XI (B) Value (Bldg)	76,900	
APPRaised Ob (B) Value (Bldg)	297,900	
APPRaised Land Value (Bldg)	4,396,000	
Special Land Value	0	
Total Appraised Parcel Value	30,431,800	
Valuation Method	C	

LANDLINE VALUATION SECTION	PERMIT ID	ISSUE DATE	TYPE	DESCRIPTION	AMOUNT	INSPECTION DATE	% COMP	DATE COMP	COMMENTS	DATE	ID	TYPE	IS	CD	PURPOSE/RESULT
Total Appraised Parcel Value: 30,431,800															
Total Card Land Units: [Blank]															
Parcel Total Land Area: [Blank]															
Total Land Value: 4,306,000															





PROPERTY	TOPO	UTILITIES	STRT / ROAD	LOCATION	DESCRIPTION	CODE	APPRAISED	ASSESSED	908
SOUTH SHORE REGIONAL SCHOOL TOWN HALL					EXEMPT EXM LAND	9921	26,125,800	26,125,800	
550 HANOVER STREET						9921	4,306,000	4,306,000	HANOVER, MA
HANOVER MA 02339									
SUPPLEMENTAL DATA Alt Prc/ID: 2024 Bldg No: Frontage Subdivisio: Assess Mt: Unit No(s): Assess Mt: Conserv: Assess Mt: Conserv: Assess Mt: GIS ID: M_262702_877579 Assoc Pld#:					VISION				

RECORD OF OWNERSHIP	BK-VOL/PAGE	SALE DATE	QU / VI	SALE PRICE	VC	Year	Code	Assessed	Year	Code	Assessed
						2023	9921	26,125,800	2022	9921	20,868,400
							9921	4,306,000		9921	3,751,400
Total						30,431,800	Total	30,431,800	Total	24,609,800	

EXEMPTIONS	OTHER ASSESSMENTS	Year	Code	Amount	Comin Int	Appraised Bldg. Value (Card)
						25,751,000
						76,900
						297,900
						4,306,000
						0
						30,431,800
						C

ASSESSING NEIGHBORHOOD	NOTES	Year	Code	Amount	Comin Int	Appraised Bldg. Value (Card)
						25,751,000
						76,900
						297,900
						4,306,000
						0
						30,431,800
						C

BUILDING PERMIT RECORD	Permit ID	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments	Date	Id	Type	Is	Cd	Purpose/Result

LANDLINE VALUATION SECTION	Use Code	Description	Zone	Land Type	Land Units	Unit Price	I. Factor	Site Index	Cond.	Nbhd	Nbhd Adj	Notes	Location Adjustment	Adj Unit Pric	Land Value
Total Card Land Units															4,306,000
Parcel Total Land Area:															
Total Land Value															4,306,000

**476 WEBSTER ST**

**Location** 476 WEBSTER ST

**Mblu** 10 / 19 / /

**Acct#** 9030

**Owner** SOUTH SHORE REGIONAL SCHOOL

**Assessment** \$30,431,800

**Appraisal** \$30,431,800

**PID** 3244

**Building Count** 1

**Current Value**

Appraisal			
Valuation Year	Improvements	Land	Total
2023	\$26,125,800	\$4,306,000	\$30,431,800
Assessment			
Valuation Year	Improvements	Land	Total
2023	\$26,125,800	\$4,306,000	\$30,431,800

**Owner of Record**

**Owner** SOUTH SHORE REGIONAL SCHOOL  
**Co-Owner** TOWN HALL  
**Address** 550 HANOVER STREET  
 HANOVER, MA 02339

**Sale Price** \$0  
**Certificate**  
**Book & Page** 2833/0005  
**Sale Date** 02/14/1961

**Ownership History**

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
SOUTH SHORE REGIONAL SCHOOL	\$0		2833/0005	02/14/1961

**Building Information**

**Building 1 : Section 1**

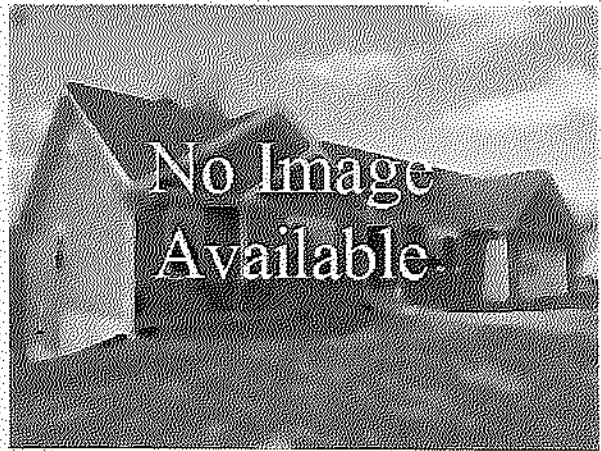
**Year Built:** 1962  
**Living Area:** 141,514  
**Replacement Cost:** \$45,983,962  
**Building Percent Good:** 56  
**Replacement Cost**  
**Less Depreciation:** \$25,751,000

**Building Attributes**



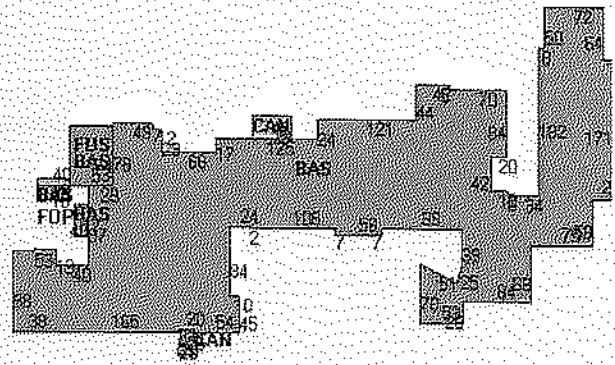
Field	Description
Style:	Schools-Public
Model	Comm/Ind
Grade	Good
Stories:	1
Occupancy	1.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Rolled Compos
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	ceramic tile
Interior Floor 2	Carpet
Heating Fuel	Gas
Heating Type	Hot Water
AC Type	Central
Struct Class	
Bldg Use	COUNTY IMPROVED
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	9031
Heat/AC	HEAT/AC SPLIT
Frame Type	STEEL
Baths/Plumbing	ABOVE AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	ABOVE AVERAGE
Wall Height	12.00
% Conn Wall	0.00

### Building Photo



(<https://images.vgsi.com/photos/HanoverMAPhotos/default.jpg>)

### Building Layout



([https://images.vgsi.com/photos/HanoverMAPhotos/Sketches/3244\\_4232](https://images.vgsi.com/photos/HanoverMAPhotos/Sketches/3244_4232))

Building Sub-Areas (sq ft)			Legend	
Code	Description	Gross Area	Living Area	
BAS	First Floor	137,592	137,592	
FUS	Upper Story, Finished	3,922	3,922	
CAN	Canopy	2,001	0	
FOP	Porch, Open, Finished	320	0	
WDK	Deck, Wood	45	0	
		143,880	141,514	

### Extra Features

Extra Features				Legend	
Code	Description	Size	Value	Bldg #	
CLR1	COOLER	112.00 S.F.	\$2,200		1
CLR1	COOLER	112.00 S.F.	\$2,200		1

APPENDIX H

**MASSACHUSETTS DEP OIL & HAZARDOUS MATERIAL INCIDENT REPORT**

(circle or fill in all that apply)

Response Date: 4.5.93 Closed:  Yes No SA #: \_\_\_\_\_ ER #: 593-0232

Initial Office  Follow-up Office \_\_\_\_\_ Initial Field \_\_\_\_\_ Follow-up Field \_\_\_\_\_ 24H Notification \_\_\_\_\_ Amended \_\_\_\_\_  
 City/Town: HANOVER Spill Name: So. Shore Voc. Tech High Sch.  
 Address: 476 WEBSTER ST. Reported: 4.5.93 Time: 9:15 AM/PM  
 Half Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Occurred: 4.5.93 Time: 4:00 AM/PM  
 NOTIFIER: DENNIS Mc GOWEN  (Name)  Check if Anonymous [ ] (Affiliation) CLEAN HARBORS, Inc. (Phone) 1-800-OIL-TANK

**PRIMARY SPILL INFORMATION**

Petroleum / Hazardous /  Both Neither / Unknown  
 Material: WASTE MOTOR OIL Amount Reported: 30  Gallons Drums Cu Yds Lbs  
 Virgin /  Waste Non-PCB / PCB ppm /  Unknown Amount Actual: \_\_\_\_\_ Vapors Sheen None Unknown  
 Environmental Impact:  SOIL AIR GROUNDWATER SURFACE WATER ZONE 2 WATER SUPPLY STORM DRAIN SCHOOL

RESIDENCE OTHER:  
 Spill Source: U.S.T. A.S.T. TRANSFORMER VEHICLE FUEL TANK PIPE/HOSE/LINE  
 BOAT DRUMS VEHICLE TANKER TRUCK UNKNOWN OTHER: CONTAINER  
 Release Type:  SPILL FIRE OVERFILL TANK REMOVAL TEST FAILURE VEHICLE ACCIDENT  
 RUPTURE LEAK DUMPING THREAT ONLY UNKNOWN OTHER: \_\_\_\_\_

Description: CONSTRUCTION ON-SITE  
WASTE OIL SPILLED OFF THE BACK OF A TRUCK  
CH CALLED OUT - SOIL (GRASS) + ASPHALT CONTAMINATED.  
ON-SITE (2) 1-YARD FLUX BINS AND (2) 55 GALLON  
DRUMS TO BE PICK-UP BY CH.

Referral Within DEP: SA HW WS SW ACC WPC WM IWM ENF/SF Staff: \_\_\_\_\_  
 State Contractor: Used: \_\_\_\_\_ / Not Used Federal L.U.S.T. Eligible: No Yes Category: \_\_\_\_\_  
 Further DEP Response: Yes No Pending Response Needed:

**PRP INFORMATION**

Company: So. Shore Voc. Tech. High School (GORDON LAMBERT)  
 Address: 476 WEBSTER ST. Town: HANOVER State: MA Zip: \_\_\_\_\_  
 Business Phone: (617) 878-8822 Home Phone: ( ) \_\_\_\_\_  
 NOR Issued: Verbal Field Office Date: 1/1/ Responsibility Accepted:  Yes No  
 PRP Contractor: CLEAN HARBORS Contact: DENNIS Mc GOWEN Phone: 1-800-OIL-TANKS  
 Noncompliance Issues:

**OTHER AGENCIES INVOLVED IN OR NOTIFIED OF INCIDENT**

Agency: \_\_\_\_\_ Date: \_\_\_/\_\_\_/\_\_\_ Time: \_\_\_:\_\_\_ AM/PM  
 First Contact By: DEP OTHER AGENCY Phone: ( ) - Contact: \_\_\_\_\_  
 Agency: \_\_\_\_\_ Date: \_\_\_/\_\_\_/\_\_\_ Time: \_\_\_:\_\_\_ AM/PM  
 First Contact By: DEP OTHER AGENCY Phone: ( ) - Contact: \_\_\_\_\_

DEP Staff Notified: Phil Mallard ER Lead: \_\_\_\_\_  
 Report Prepared By: Joseph J. Leary Signature: Joseph J. Leary

**MASSACHUSETTS DEP OIL & HAZARDOUS MATERIAL INCIDENT REPORT**  
(circle or fill in all that apply)

Response Date: 4/6/93 Closed:  Yes No SA #: \_\_\_\_\_ ER #: 593-0237  
 Initial Office Follow-up Office Initial Field \_\_\_\_\_ Follow-up Field \_\_\_\_\_ 21E Notification \_\_\_\_\_ Amended \_\_\_\_\_  
 City/Town: Amherst Spill Name: \_\_\_\_\_  
 Address: South Shore Voe H.S. Reported: 4/6/93 Time: \_\_\_\_\_ AM/PM  
 Half Town: 476 Webster St Zip Code: \_\_\_\_\_ Occurred: 4/4/93 Time: \_\_\_\_\_ AM/PM  
 NOTIFIER: John Willett Clean Machines (617) 269-5830  
 (Name) Check if Anonymous  (Affiliation) (Phone)

**PRIMARY SPILL INFORMATION**

Petroleum / Hazardous / Both / Neither / Unknown  
 Material: Waste Oil Amount Reported: 30 gallons Drums Cu Yds Lbs  
 Virgin / Waste Non-PCB / PCB \_\_\_\_\_ ppm / Unknown Amount Actual: 20 to 25 Vapors Sheen None Unknown  
 Environmental Impact: SOIL AIR GROUNDWATER SURFACE WATER ZONE 2 WATER SUPPLY STORM DRAIN SCHOOL

**RESIDENCE OTHER:**

Spill Source: U.S.T. A.S.T. TRANSFORMER VEHICLE FUEL TANK PIPE/HOSE/LINE  
 BOAT DRUMS VEHICLE TANKER TRUCK UNKNOWN OTHER: \_\_\_\_\_  
 Release Type: SPILL FIRE OVERFILL TANK REMOVAL TEST FAILURE VEHICLE ACCIDENT  
 RUPTURE LEAK DUMPING THREAT ONLY UNKNOWN OTHER: \_\_\_\_\_

Description: midnight dumping of waste oil (illegal deposit)  
CHI responded, excavated - 2-1 cubic yds and 3-55g  
of oil contaminated soil. South Shore Voe H.S. contacted  
CHI to clean up spill.

Referral Within DEP: SA HW WS SW AQC MPC MW TW ENF/SF Staff: \_\_\_\_\_  
 State Contractor: Used: \_\_\_\_\_ / Not Used Federal L.U.S.T. Eligible: No Yes Category: \_\_\_\_\_  
 Further DEP Response: Yes No Pending Response Needed:

**PRP INFORMATION**

Company: Unknown Name: \_\_\_\_\_  
 Address: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Business Phone: (\_\_\_\_) \_\_\_\_\_ Home Phone: (\_\_\_\_) \_\_\_\_\_  
 NOR Issued: Verbal Field Office Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Responsibility Accepted: Yes No N/A  
 PRP Contractor: \_\_\_\_\_ Contact: \_\_\_\_\_ Phone: (\_\_\_\_) \_\_\_\_\_  
 Noncompliance Issues:

**OTHER AGENCIES INVOLVED IN OR NOTIFIED OF INCIDENT**

Agency: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Time: \_\_\_\_:\_\_\_\_ AM/PM  
 First Contact By: DEP OTHER AGENCY Phone: (\_\_\_\_) \_\_\_\_\_ Contact: \_\_\_\_\_  
 Agency: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Time: \_\_\_\_:\_\_\_\_ AM/PM  
 First Contact By: DEP OTHER AGENCY Phone: (\_\_\_\_) \_\_\_\_\_ Contact: \_\_\_\_\_

DEP Staff Notified: \_\_\_\_\_ ER Lead: [Signature]  
 Report Prepared By: \_\_\_\_\_ Signature: [Signature]





J0863-16-01  
October 5, 2023

Mr. Judd Christopher  
Drummey Rosanne Anderson, Inc.  
Howard Clock Building  
260 Charles Street, Studio 300  
Waltham, Massachusetts 02453

Re: PDP Geotechnical Engineering Evaluation  
South Shore Vocational Technical High School  
476 Webster Street  
Hanover, Massachusetts

Dear Mr. Christopher:

O'Reilly, Talbot & Okun Associates, Inc. (OTO) is pleased to provide this letter report summarizing our preliminary geotechnical engineering evaluation for use in the PDP study for the renovation/new school building at the South Shore Vocational Technical High School in Hanover, Massachusetts. A Site Locus is provided as Figure 1. A Site Sketch is provided as Figure 2.

We note that subsurface investigations for the proposed construction have not yet been performed at the time of this report, therefore our preliminary evaluation is based upon a review of published geologic information, conditions observed during OTO's recent Phase 1 ESA site visit, and review of a previous geotechnical study performed at the Site by others. This report is subject to the attached limitations.

We note that preliminary subsurface investigations for the proposed construction are planned for October 2023.

## **PROJECT DESCRIPTION**

We understand that the project is in the conceptual design stage and two alternatives are being considered. The location, layout and size of the new structure has not yet been established.

- Alternative 1: The renovation of and potentially an addition to the existing school building.
- Alternative 2: Construction of a new school building at the Site, most likely to the south of the existing building, within the sports fields.

The location of each alternative (Alternatives 1 and 2) is identified on Figure 2. The general discussion of geotechnical considerations provided in this report applies to each alternative.



We understand that the project may include either a new school building or the construction of additions and renovation to the existing school. The project may also include construction of new pavement areas and relocation of athletic fields. It is likely that the new building or addition(s) will be two to three stories high, slab on grade (no basement) structures with a steel frame and brick façade. We expect structural loads to be supported on both isolated column and continuous strip footings. Structural loads are unknown at this time. However, it is expected that maximum column loads will be on the order of 200 kips or less and bearing walls will carry a load of approximately five kips per linear foot. These assumptions will be updated in later design phases.

## EXISTING SITE CONDITIONS

The Site alternatives would be constructed adjacent to the existing school. The South Shore Vocational Technical High School is bounded to the north by Webster Street, and to the west, south and east by wooded areas. Topography generally slopes downwards towards the east, with the playing fields approximately 8 feet below the existing school elevation. We note a small stream was present along the eastern portion of football field during our recent site visit. In addition, we observed bedrock outcrops and boulders at the surface in the southern and eastern portions of the Site.

## PUBLISHED GEOLOGIC CONDITIONS

Information regarding surficial soil conditions was obtained from the surficial geology map for the USGS Cohasset Quadrangle<sup>1</sup>. The Site is located within an area mapped as being underlain by “Thin Glacial Till”. Glacial till is a heterogenous mixture of sand, silt, clay, and gravel that was deposited at the base of the continental glaciers, which covered all of New England during the last period of glaciation. Glacial till is typically very dense, and most buildings can be supported on these soils without experiencing significant settlement. However, one issue commonly associated with Sites underlain by glacial till is that these soils are poor draining, resulting in high groundwater conditions and frost movement of pavements. In addition, large and/or smaller isolated areas of wetlands and/or organic soils (former wetland areas) may be encountered in low lying areas.

According to this map, the glacial till is likely less than 10 to 15 feet thick at the site. The conditions observed in borings performed by others and during our recent Site visit support the information presented on the surficial geologic map.

The Bedrock Geologic Map of Massachusetts<sup>2</sup> indicates that bedrock in the Site vicinity consists of Dedham Granite (igneous rock of the Milford-Dedham Zone). Granitic rocks are typically hard with widely spaced joints. A single bedrock core performed during a previous study confirms the conditions within the bedrock map.

---

<sup>1</sup> US Geologic Survey, “Surficial Materials Map of Cohasset Quadrangle”, by Byron D. Stone, Janet R. Stone and Mary L. DiGiacomo-Cohen, 2018.

<sup>2</sup> Zen, E., Editor, 1983, “Bedrock Geologic Map of Massachusetts” USGS and Massachusetts Department of Public Works.

## ANTICIPATED SUBSURFACE CONDITIONS

OTO reviewed investigations from a previous study performed for stadium light poles for the existing sports field to the rear (southeast) of the existing school. The borings logs and a site plan for the investigations performed in the 2019 light pole study are attached to this report. A summary of these conditions is provided below.

### Soil Conditions

*Topsoil:* Between seven and eight inches of topsoil was present at the ground surface in each boring. The topsoil consisted of loose to medium dense, brown, fine to medium sand with some silt, trace organics (roots) and trace gravel.

*Non-Engineered Fill:* The topsoil was underlain by up to 6 to 9 feet of non-engineered fill in borings B-1, B-2 and B-3. No fill was present in boring B-4. The fill generally consisted of fine to coarse sand, little to trace gravel and little silt. The fill was generally dense although there appears to be a significant variation in density across the site and with depth. This fill was likely placed during the construction of the existing athletic fields.

*Swamp and fine-Grained Deposits:* Conditions at boring B-4 (which was located in the northwest corner of the football field) varied. Approximately seven feet of gray, silty sand with organics (which was identified as a swamp deposit) was observed just below the surface topsoil layer at this location. The organic silty sand was underlain by approximately five feet of slightly plastic silt. In boring B-3, an approximately 18-inch-thick layer of the swamp deposits was present beneath the near surface fill. Approximately nine feet of medium dense clayey sand was present below the fill layer in boring B-3.

*Glacial Till:* Borings B-2 through B-4 encountered glacial till beneath the topsoil, fill or silt/clayey sand layers. The depth to glacial till varied between 8.5 and 16-feet in the borings. The glacial till consisted of a dense to very dense, light brown, well graded, fine to coarse sand with some silt, and varying amounts of gravel. Glacial till commonly contains numerous cobbles and occasional boulders. Occasional layers of sand and gravel with little silt or clay were noted within the glacial till.

*Bedrock:* Drilling refusal was encountered in borings B-1 and B-2 on either a large boulder or bedrock. A 5-foot bedrock core was taken at location B-1. The rock recovered from the core consisted of pink and gray granite. The rock was observed to be fresh and hard, with medium to coarse grains.

### Groundwater Conditions

The depth to groundwater was measured in the field and is presented on the boring logs. Groundwater was observed at a depth of between 4 and 14 feet during drilling but was apparently near the ground surface at the completion of drilling. These data indicate that groundwater is relatedly shallow and artesian conditions may be present. The presence of shallow groundwater will be a significant concern for the new construction.

## OTO SITE VISIT

Mr. Bruce Nickelson of OTO visited the site on September 28, 2023. The significant geotechnical observations during the site visit include.

- Bedrock outcrops or large boulders are present in the fields to the east and south of the existing school building.
- The ground surface in landscaped areas around the school building were wet and soft.
- A small intermediate stream is present along the east side of the athletic fields to the east (rear) of the existing school building. A small amount of water flow was present in this stream at the time of our visit.
- The existing school building is a large footprint single story building.

## PRELIMINARY EVALUATION OF GEOTECHNICAL CONSIDERATIONS

Based upon our review of available information the significant geotechnical considerations for the proposed construction consist of the following:

- Organic soils may be present under portions of the site. Organic soils are typically not a suitable bearing material due to their low strength and high compressibility. In addition, they will tend to compress over extended periods of time due to the degradation of organic matter within the soil mass.
- Bedrock is relatively shallow at the site and boulders are likely present in the shallow glacial till. A significant geotechnical issue includes the potential presence of near surface bedrock and the associated costs with necessary removal to allow for the construction of the building (including slabs and foundations), accessways, and utilities.
- Groundwater is relatively shallow and perched water layers may be encountered during construction and during the service life of the proposed building. Pavements and sidewalks will tend to heave due to frost action and playing fields may be soft and wet. Depending on the silt content of the native Site soils, these materials may be difficult to place and compact these soils during wet periods, and Site access may be difficult due to soft ground conditions during cold and wet periods.

Preliminary geotechnical recommendations to address these considerations are provided below.

### Organic Soils

The organic soils observed in the vicinity of previous borings B-3 and B-4 are a significant geotechnical consideration. Organic soils are soft and compressible and therefore are an unsuitable bearing material beneath foundations, slabs and pavements. Typical engineering solutions to address organic soils include their removal and replacement with imported sand and gravel, the installation of aggregate piers to reinforce the soil mass,

increasing strength and decreasing compressibility. We recommend investigations during final design to define the lateral and vertical limits of organic soils.

### Bedrock/Large Boulders

We expect that the bedrock surface will be relatively shallow and vary across the Site. Based upon the preliminary evaluation and observations during our Site visit, bedrock is present near the surface in some areas and may impact foundations, stormwater infiltration and utilities.

Depending on building location and final slab elevation, bedrock may be encountered during construction of the building, utilities and associated improvements. Furthermore, large boulders and cobbles were observed at the ground surface. Large excavations (and/or blasting) may be required for the removal of large boulders and bedrock.

Once the building location has been finalized and slab and utility elevations have been established, explorations (including borings, test pits and bedrock coring) will be required to determine the presence of bedrock and large boulders within anticipated cut areas.

### Foundations

We anticipate that any new addition or building can be supported on normal spread footing foundations bearing on the natural silt, clayey sand or glacial till. These soils are relatively dense, therefore a bearing pressure of 4,000 pounds per square foot can be used for preliminary design. Building settlement should be less than 1 inch. This assumes that any organic soils will be removed or will be improved with aggregate piers. The lateral and vertical limits of organic soils will be a significant factor in foundation design.

### Water Control

Groundwater is likely present within five feet of the ground surface. We recommend that the building pad for the new building be raised at least two feet above the existing ground surface to limit potential moisture issues. Underdrains will likely be needed beneath and around the perimeter of the building, below pavements and beneath playing fields. In addition, because the glacial till is relatively impermeable, little infiltration will occur and significant runoff will occur off earth slopes. In addition, it may not be possible to infiltrate significant amounts of surface water runoff into the subsurface.

Furthermore, the native soils at the Site may be susceptible to disturbance when wet. Establishing and maintaining proper surface drainage during construction will be necessary to maintain a stable soil subgrade during construction. We note that special provisions (such as reinforced access roads) may be required to facilitate access for construction equipment (such as cranes or lifts) during construction if silty soils are present near the ground surface.

### Seismic Considerations

Earthquake loadings must be considered under requirements in Section 1613 and 1806 of the 9<sup>th</sup> Edition (October 2017) of the Massachusetts State Building Code (MSBC). The 9<sup>th</sup> Edition of the MSBC is based upon the International Building Code 2015 (IBC) with Massachusetts amendments. Note that the IBC refers to ASCE-7 (2010), Minimum Design Loads for Buildings and Other Structures.

Section 1613 of the IBC covers lateral forces imposed on structures from earthquake shaking and requires that every structure be designed and constructed to resist the effects of earthquake motions in accordance with ASCE-7. Lateral forces are dependent on the type and properties of soils present beneath the site, along with the geographic location. Per Table 1604.11, the maximum considered earthquake spectral response acceleration at short periods ( $S_s$ ) and at 1-sec ( $S_1$ ) was determined to be 0.198 and 0.065, respectively, for Hanover, Massachusetts.

We expect that design phase borings will likely support the seismic classification of Site Class C. However, for preliminary design we recommend that a Site Class D be assumed. Furthermore, we do not anticipate that loose, liquefiable soil layers will be present; however, liquefaction considerations will need to be fully evaluated.

### Earthwork Considerations

We anticipate that earthwork for this project will include the following: cuts and fills to form the new building and/or addition pad(s) and surrounding proposed features; excavations for footings and new utilities; placement of compacted engineered fill beneath the building, floor slabs, and pavements (as needed); and the removal and/or treatment of the existing soils to address any localized pocket of unsuitable soils (debris fill or organic soils) or loose areas that may be present.

Depending on the building location and final grading, bedrock may be encountered. Depending on the bedrock surface and depth of any cuts blasting may be required. We note that the granite bedrock at the site is relatively hard.

We note that large excavations may result from the removal of boulders. Premium costs associated with bedrock and large boulder removal will be a significant consideration.

As described above, the near surface soils may contain a significant amount of fines. These fine-grained soils are poorly draining, susceptible to moisture and are difficult to place and compact when wet. Generally, the fines content will dominate soil behavior if a soil mixture contains greater than approximately 35 percent silt or clay. As such, these soils cannot be easily dried or stabilized during winter and wet weather periods. Furthermore, fine grained soils are susceptible to disturbance under traffic loads, particularly during construction, where they experience worse-case conditions. Repeated construction traffic further exacerbates the disturbance of these materials.

If the native glacial till is kept dry and protected, it may be used in deep engineered fills if properly placed and compacted; however, we anticipate that significant quantities of

imported engineering fills may be required. Consideration to weather, scheduling and protection of soils is critical to the successful re-use of these soils as fills, as well as the prevention of disturbance to exposed soil surfaces. Recommendations for the protection of exposed soil surfaces, water control and re-use of on-Site soils should be provided during final design.

If renovations/additions to the existing building is chosen as the alternative, underpinning and/or temporary earth support to protect/support the existing building during construction may be needed.

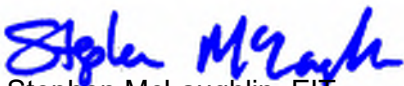
## DESIGN PHASE INVESTIGATIONS AND TESTING

This limited evaluation indicates that subsurface conditions in the general Site vicinity are generally favorable for the project. However, design phase explorations will be necessary prior to final design. The number and scope of additional explorations will depend upon design phasing and the final location and slab elevation of any new building, as well as location of proposed parking areas and utilities. Typically, design phase borings should be completed at a spacing of 100 feet or less. A closer spacing of investigations will likely be required in areas with organic soils.

Borings/test pits should also be performed along utility lines and in deep cuts to evaluate the depth to the bedrock surface. If bedrock or large boulders are encountered in the design phase borings, coring may be required. The design phase geotechnical study should also include grain size distribution analyses to evaluate the suitability of Site soils for re-use as engineered fill and testing to evaluate the hydraulic conductivity of Site soils at proposed stormwater disposal locations (although it appears unlikely that the native Site soils are suitable for stormwater infiltration). If significant quantities of soil are to be removed from the Site, environmental testing of the soils would be appropriate.

We appreciated the opportunity to be of service on this project. If you have any questions, please do not hesitate to contact the undersigned.

Sincerely yours,  
O'Reilly, Talbot & Okun Associates, Inc.



Stephen McLaughlin, EIT  
Senior Project Manager



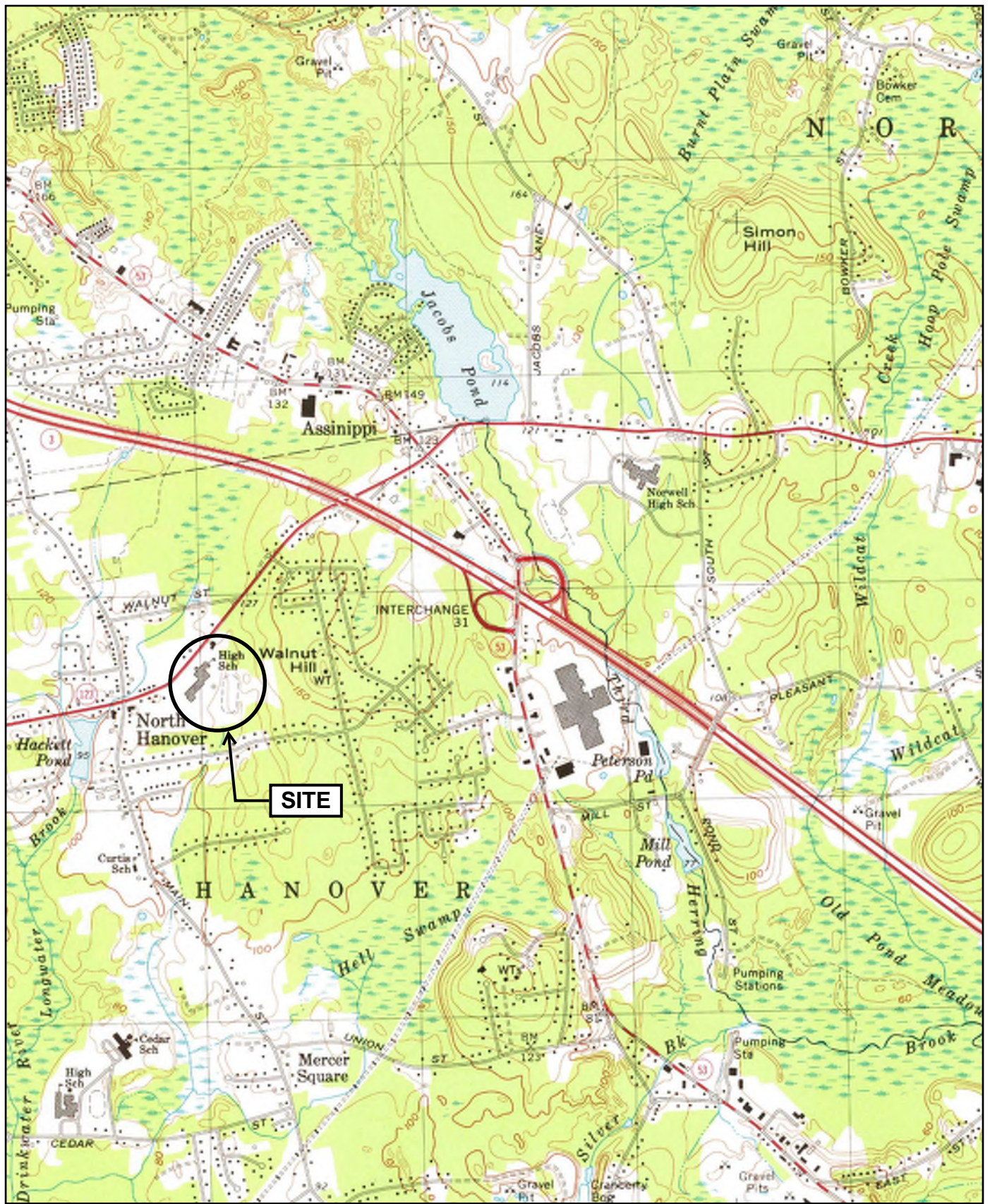
Michael J. Talbot, PE  
Principal

Attachments: Limitations, Site Locus, Site Sketch, Previous Borings & Boring Location Plan



## LIMITATIONS

1. The observations presented in this report were made under the conditions described herein. The conclusions presented in this report were based solely upon the services described in the report and not on scientific tasks or procedures beyond the scope of the project or the time and budgetary constraints imposed by the client. The work described in this report was carried out in accordance with the Statement of Terms and Conditions attached to our proposal.
2. The analysis and recommendations submitted in this report are based in part upon the data obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until construction. If variations then appear evident, it may be necessary to reevaluate the recommendations of this report.
3. The generalized soil profile described in the text is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and have been developed by interpretations of widely spaced explorations and samples; actual soil transitions are probably more erratic. For specific information, refer to the boring logs.
4. In the event that any changes in the nature, design or location of the proposed structures are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and conclusions of this report modified or verified in writing by O'Reilly, Talbot & Okun Associates Inc. It is recommended that we be retained to provide a general review of final plans and specifications.
5. Our report was prepared for the exclusive benefit of our client. Reliance upon the report and its conclusions is not made to third parties or future property owners.



1:25,000 SCALE NATIONAL GEODETIC VERTICAL DATUM 1929 10 FOOT CONTOUR INTERVAL

OUJ0800863 DRA In:16-01 South Shore Voc-Tech, 476 Webster St, Hanover, MA Field Work and Figures Figure 1 - Site Locus.pdf

**O'Reilly, Talbot & Okun**  
ENGINEERING ASSOCIATES  
293 Bridge Street, Suite 500 Springfield, MA 01103 413.788.6222  
www.OTO-ENV.com

**SOUTH SHORE VOCATIONAL  
TECHNICAL HIGH SCHOOL**  
476 WEBSTER STREET  
HANOVER, MASSACHUSETTS

**SITE LOCUS**

Topographic Map Quadrant:  
COHASSET, MA  
Map Version: 1974  
Current As Of: 1978  
Date: SEPTEMBER 2023

PROJECT No.  
**J0863-14-01**  
FIGURE No.  
**1**





NOTES:

1. PLAN PROVIDED TO OTO IN ELECTRONIC FORMAT.
2. ALL DATA IS TO BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHODS USED IN THE DEVELOPMENT OF THIS PLAN

Figure Not to Scale, for Illustrative Purposes Only

FILE

**O'Reilly, Talbot & Okun**  
ENGINEERING ASSOCIATES  
293 Bridge Street, Suite 500 Springfield, MA 01103 413.788.6222  
www.OTO-ENV.com

**SOUTH SHORE VOCATIONAL TECHNICAL  
HIGH SCHOOL**  
476 WEBSTER STREET  
HANOVER, MASSACHUSETTS

---

**SITE SKETCH**

Designed By: SMM  
Drawn By: SMM  
Checked By: MJT  
Date: 10/5/2023  
Revised Date:

PROJECT No.  
**J0863-16-01**

---

FIGURE No.  
**2**





Imagery ©2019 Google, Map data ©2019 Google 100 ft


Note

Figure based on an aerial photograph retrieved from Google Maps on January 18, 2019.

Legend



Approximate location of borings advanced by Northern Drill Services, Inc. of Northborough, MA on January 14, 2019 and observed by LGCI.

Client: <b>Drumme Rosane Anderson, Inc.</b>	Project: <b>Proposed Field Lighting -South Shore Vocational Technical High School</b>	<b>Figure 2 – Boring Location Plan</b>	
 <b>LGCI</b> Lahlaf Geotechnical Consulting, Inc.	Project Location: <b>Hanover, MA</b>	LGCI Project No.: <b>1863</b>	Date: <b>Feb. 2019</b>

<b>CLIENT:</b> <u>Drummey Rosane Anderson, Inc.</u>	<b>PROJECT NAME:</b> <u>Proposed SSVT HS Lights</u>
<b>LGCI PROJECT NUMBER:</b> <u>1863</u>	<b>PROJECT LOCATION:</b> <u>Hanover, Massachusetts</u>
<b>DATE STARTED:</b> <u>1/14/19</u> <b>DATE COMPLETED:</b> <u>1/14/19</u>	<b>DRILLING SUBCONTRACTOR:</b> <u>Northern Drill Service, Inc.</u>
<b>BORING LOCATION:</b> <u>Northeastern corner of football field</u>	<b>DRILLING FOREMAN:</b> <u>Tim Tucker</u>
<b>COORDINATES:</b> <u>NA</u>	<b>DRILLING METHOD:</b> <u>HSA (3-1/4" I.D.) then 4-inch casing</u>
<b>SURFACE EI.:</b> <u>(see note 1)</u> <b>TOTAL DEPTH:</b> <u>15 ft.</u>	<b>DRILL RIG TYPE/MODEL:</b> <u>Mobile B-48 ATV Rig</u>
<b>WEATHER:</b> <u>30s / Overcast, Flurries</u>	<b>HAMMER TYPE:</b> <u>Automatic</u>
<b>GROUNDWATER LEVELS:</b>	<b>HAMMER WEIGHT:</b> <u>140 lb.</u> <b>HAMMER DROP:</b> <u>30 in.</u>
▽ <b>DURING DRILLING:</b> <u>8.0 ft. Based on sample moisture.</u>	<b>SPLIT SPOON DIA.:</b> <u>1.375 in. I.D., 2 in. O.D.</u>
▽ <b>AT END OF DRILLING:</b> <u>0.0 ft. After coring.</u>	<b>CORE BARREL SIZE:</b> <u>NX</u>
▽ <b>OTHER:</b> <u>-</u>	<b>LOGGED BY:</b> <u>JT</u> <b>CHECKED BY:</b> <u>AML</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0	S1	15-5-6-10 (11)	24/16		Topsoil	0.7	S1 - Top 8": Silty SAND (SM), fine to medium, 20-25% fines, trace grass, trace roots, trace organic fines, brown, moist
		2	S2	15-17-17-38 (34)	24/15		Fill		Bot. 8": Well graded SAND with Silt and Gravel (SW-SM), fine to coarse, 10-15% fines, 15-20% fine to coarse gravel, tan, moist
		4	S3	50/0"	0/0	1			S2 - Similar to Bot. 8" of S1
5		6	S4	17-14-16-84/5" (30)	23/20		Fill		REMARK 1: Rig chatter 4 ft to 6 ft beneath ground surface.
		7.9				2			S4 - Silty SAND with Gravel (SM), fine to coarse, 15-20% fines, 15-20% fine to coarse gravel, tan, moist
		9	S5	50/3"	3/3		Bedrock	9.0	REMARK 2: Rig chatter 7 ft to 9 ft beneath ground surface.
10		9.3				3			S5 - Poorly graded GRAVEL with Sand (GP), fine, angular, 0-5% fines, 30-35% fine to coarse sand, brown, moist (possible rock)
		10	C1		60/58		Bedrock		REMARK 3: Auger refusal at 9 ft beneath ground surface. Offset boring 7 ft south. Auger refusal at 9 ft beneath ground surface in offset borehole.
		15				4			REMARK 4: Attempted rock core at 10 ft in offset location.
		15						15.0	C1 - min/ft: 2:35, 2:17, 2:38, 2:07, 2:08 REC=97%, RQD=87% Hard, fresh, slightly fractured, medium- to coarse-grained, pink and gray, GRANITE
									Bottom of borehole at 15.0 feet. Both boreholes backfilled with drill cuttings.

**GENERAL NOTES:**

- The ground surface elevations are not available.

<b>CLIENT:</b> <u>Drummeey Rosane Anderson, Inc.</u>	<b>PROJECT NAME:</b> <u>Proposed SSVT HS Lights</u>
<b>LGCI PROJECT NUMBER:</b> <u>1863</u>	<b>PROJECT LOCATION:</b> <u>Hanover, Massachusetts</u>
<b>DATE STARTED:</b> <u>1/14/19</u> <b>DATE COMPLETED:</b> <u>1/14/19</u>	<b>DRILLING SUBCONTRACTOR:</b> <u>Northern Drill Service, Inc.</u>
<b>BORING LOCATION:</b> <u>Southeastern corner of football field</u>	<b>DRILLING FOREMAN:</b> <u>Tim Tucker</u>
<b>COORDINATES:</b> <u>NA</u>	<b>DRILLING METHOD:</b> <u>Hollow Stem Auger (3-1/4" I.D.)</u>
<b>SURFACE EI.:</b> <u>(see note 1)</u> <b>TOTAL DEPTH:</b> <u>18 ft.</u>	<b>DRILL RIG TYPE/MODEL:</b> <u>Mobile B-48 ATV Rig</u>
<b>WEATHER:</b> <u>20s / Snowy</u>	<b>HAMMER TYPE:</b> <u>Automatic</u>
<b>GROUNDWATER LEVELS:</b>	<b>HAMMER WEIGHT:</b> <u>140 lb.</u> <b>HAMMER DROP:</b> <u>30 in.</u>
▽ <b>DURING DRILLING:</b> <u>14.0 ft. Based on sample moisture.</u>	<b>SPLIT SPOON DIA.:</b> <u>1.375 in. I.D., 2 in. O.D.</u>
▽ <b>AT END OF DRILLING:</b> <u>4.0 ft.</u>	<b>CORE BARREL SIZE:</b> _____
▽ <b>OTHER:</b> <u>-</u>	<b>LOGGED BY:</b> <u>JT</u> <b>CHECKED BY:</b> <u>AML</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0	S1	16-8-7-8 (15)	24/17		Topsoil	0.6	S1 - Top 7": Silty SAND (SM), fine to medium, 25-30% fines, trace grass, trace roots, trace organic fines, brown, moist
		2	S2	10-10-10-10 (20)	24/15		Fill		Bot. 10": Poorly Graded SAND with Silt (SP-SM), fine to medium, 5-10% fines, trace fine gravel, trace organic soil, brown, moist
		4	S3	2-4-5-6 (9)	24/20				S2 - Similar to Bot. 10" of S1, trace coarse gravel
5									▽ S3 - Top 14": Silty SAND (SM), fine to medium, ~30% slightly to moderately plastic fines, ~5% fine gravel, brown, wet
		6	S4	6-9-15-30 (24)	24/21		Clayey Sand	6.0	Bot. 6": Well graded SAND with Silt (SW-SM), fine to coarse, 10-15% fines, 5-10% fine gravel, trace organic soil, brown, moist
		8						8.5	S4 - Clayey SAND (SC), fine to medium, trace coarse, 25-30% fines, slightly plastic, tan, moist
10		9	S5	10-15-18-15 (33)	24/19		Sand		S5 - Well graded SAND (SW), fine to coarse, 5-10% fines, trace fine gravel, tan, moist
		11							
15		14	S6	4-12-10-19 (22)	24/16	1			▽ REMARK 1: About 4" of possible blow-in observed in sample. S6 - Similar to S5, wet
		16							
		18	S7	50/0"	0/0	2		18.0	REMARK 2: Auger refusal at 18 ft. S7 - No Advance/Recovery, material in tip of spoon appears to be similar to S5. Bottom of borehole at 18.0 feet. Backfilled borehole with drill cuttings.
20									
25									

**GENERAL NOTES:**

- The ground surface elevations are not available.



**CLIENT:** Drummey Rosane Anderson, Inc.      **PROJECT NAME:** Proposed SSVT HS Lights  
**LGCI PROJECT NUMBER:** 1863      **PROJECT LOCATION:** Hanover, Massachusetts

**DATE STARTED:** 1/14/19      **DATE COMPLETED:** 1/14/19      **DRILLING SUBCONTRACTOR:** Northern Drill Service, Inc.  
**BORING LOCATION:** Southwestern corner of football field      **DRILLING FOREMAN:** Tim Tucker  
**COORDINATES:** NA      **DRILLING METHOD:** Hollow Stem Auger (3-1/4" I.D.)  
**SURFACE EI.:** (see note 1)      **TOTAL DEPTH:** 21 ft.      **DRILL RIG TYPE/MODEL:** Mobile B-48 ATV Rig  
**WEATHER:** 20s / Overcast      **HAMMER TYPE:** Automatic  
**GROUNDWATER LEVELS:**      **HAMMER WEIGHT:** 140 lb.      **HAMMER DROP:** 30 in.  
 ▽ **DURING DRILLING:** 4.0 ft. Based on sample moisture.      **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.  
 ▼ **AT END OF DRILLING:** 2.0 ft.      **CORE BARREL SIZE:** \_\_\_\_\_  
 ▼ **OTHER:** -      **LOGGED BY:** JT      **CHECKED BY:** AML

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0					Topsoil	0.8	S1 - Top 8": Silty SAND (SM), fine to medium, 20-25% fines, trace grass, trace roots, trace organic fines, brown, moist
		2	S1	7-4-6-7 (10)	24/16		Fill		Bot. 8": Well graded SAND with Silt (SW-SM), fine to medium, trace coarse, 10-15% fines, trace fine gravel, brown, moist
		4	S2	9-6-6-3 (12)	24/7				S2 - Similar to Bot. 8" of S1, wet
5		6	S3	1-2-2-8 (4)	24/11				S3 - Silty SAND (SM), fine to medium, trace coarse, 20-25% fines, trace fine gravel, brown to gray, wet
		6					Swamp Deposits	6.0	S4 - Top 18": Silty SAND with Gravel (SM), fine to coarse, 15-20% fines, 20-25% fine gravel, trace organic soil, gray to dark brown, wet
		8	S4	14-12-10-13 (22)	24/24		Clayey Sand	7.5	Bot. 6": Clayey SAND (SC), fine to medium, 25-30% fines, slightly plastic, gray, wet
10									
15		14	S5	22-16-10-14 (26)	24/5				S5 - Clayey SAND (SC), fine to medium, 15-20% fines, slightly plastic, 10-15% fine gravel, brown, wet
		16					Sand	16.0	
20		19	S6	26-25-18-24 (43)	24/14				S6 - Well graded SAND with Silt and Gravel (SW-SM), fine to coarse, 5-10% fines, 20-25% fine gravel, gray and pink, wet
		21							Bottom of borehole at 21.0 feet. Backfilled borehole with drill cuttings.
25									

**GENERAL NOTES:**

- The ground surface elevations are not available.

<b>CLIENT:</b> <u>Drummey Rosane Anderson, Inc.</u>	<b>PROJECT NAME:</b> <u>Proposed SSVT HS Lights</u>
<b>LGCI PROJECT NUMBER:</b> <u>1863</u>	<b>PROJECT LOCATION:</b> <u>Hanover, Massachusetts</u>
<b>DATE STARTED:</b> <u>1/14/19</u> <b>DATE COMPLETED:</b> <u>1/14/19</u>	<b>DRILLING SUBCONTRACTOR:</b> <u>Northern Drill Service, Inc.</u>
<b>BORING LOCATION:</b> <u>Northwestern corner of football field</u>	<b>DRILLING FOREMAN:</b> <u>Tim Tucker</u>
<b>COORDINATES:</b> <u>NA</u>	<b>DRILLING METHOD:</b> <u>Hollow Stem Auger (3-1/4" I.D.)</u>
<b>SURFACE EI.:</b> <u>(see note 1)</u> <b>TOTAL DEPTH:</b> <u>21 ft.</u>	<b>DRILL RIG TYPE/MODEL:</b> <u>Mobile B-48 ATV Rig</u>
<b>WEATHER:</b> <u>20s / Overcast</u>	<b>HAMMER TYPE:</b> <u>Automatic</u>
<b>GROUNDWATER LEVELS:</b>	<b>HAMMER WEIGHT:</b> <u>140 lb.</u> <b>HAMMER DROP:</b> <u>30 in.</u>
▽ <b>DURING DRILLING:</b> <u>6.0 ft. Based on sample moisture.</u>	<b>SPLIT SPOON DIA.:</b> <u>1.375 in. I.D., 2 in. O.D.</u>
▽ <b>AT END OF DRILLING:</b> <u>4.0 ft.</u>	<b>CORE BARREL SIZE:</b> _____
▽ <b>OTHER:</b> <u>-</u>	<b>LOGGED BY:</b> <u>JT</u> <b>CHECKED BY:</b> <u>AML</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0	S1	5-2-4-2 (6)	24/12		Topsoil	1.0	S1 - Silty SAND (SM), fine to medium, trace coarse, 25-30% fines, 0-5% coarse gravel, angular, trace grass, trace roots, trace organic, fines, brown, moist
		2	S2	3-4-3-2 (7)	24/0		Swamp Deposits		S2 - No Recovery
5		4	S3	0-1-3-13 (4)	24/7			▽	S3 - Silty SAND (SM), fine to medium, trace coarse, 25-30% fines, gray, moist
		6	S4	14-18-6-7 (24)	24/18			▽	S4 - Top 14": Similar to S3, wet
		8	S5	2-3-5-2 (8)	24/16		Silt	7.2	Bot. 4": SILT (ML), slightly plastic, trace fine sand, gray, wet
10		10						12.0	S5 - Similar to Bot. 4" of S4
15		14	S6	14-19-32-30 (51)	24/8		Sand		S6 - Well graded SAND with Silt and Gravel (SW-SM), fine to coarse, 10-15% fines, 20-25% fine gravel, brown, wet
		16							
20		19	S7	46-41-11-12 (52)	24/7				S7 - Silty SAND (SM), fine to coarse, 20-25% fines, trace fine gravel, tan, wet (possible weathered rock)
		21						21.0	Bottom of borehole at 21.0 feet. Backfilled borehole with drill cuttings.
25									

**GENERAL NOTES:**

1. The ground surface elevations are not available.



ATTACHMENT A  
STATEMENT OF INTEREST

(DISTRICT TO ATTACH)

## Massachusetts School Building Authority

---

### Next Steps to Finalize Submission of your FY 2021 Statement of Interest

Thank you for submitting your FY 2021 Statement of Interest (SOI) to the MSBA electronically. **Please note, the District's submission is not yet complete.** The District is required to mail all required supporting documentation, which is described below.

**VOTES: Each SOI must be submitted with the proper vote documentation.** This means that (1) the required governing bodies have voted to submit each SOI, (2) the specific vote language required by the MSBA has been used, and (3) the District has submitted a record of the vote in the format required by the MSBA.

- | **School Committee Vote:** Submittal of all SOIs must be approved by a vote of the School Committee.
  - | For documentation of the vote of the School Committee, Minutes of the School Committee meeting at which the vote was taken must be submitted with the original signature of the Committee Chairperson. The Minutes must contain the actual text of the vote taken which should be substantially the same as the MSBA's SOI vote language.
- | **Municipal Body Vote:** SOIs that are submitted by cities and towns must be approved by a vote of the appropriate municipal body (e.g., City Council/ Aldermen/Board of Selectmen) in addition to a vote of the School Committee.
  - | Regional School Districts do not need to submit a vote of the municipal body.
  - | For the vote of the municipal governing body, a copy of the text of the vote, which shall be substantially the same as the MSBA's SOI vote language, must be submitted with a certification of the City/Town Clerk that the vote was taken and duly recorded, and the date of the vote must be provided.

**ADDITIONAL DOCUMENTATION FOR SOI PRIORITIES #1 AND #3:** If a District selects Priority #1 and/or Priority #3, the District is required to submit additional documentation with its SOI.

- | If a District selects Priority #1, Replacement or renovation of a building which is structurally unsound or otherwise in a condition seriously jeopardizing the health and safety of the school children, where no alternative exists, the MSBA requires a hard copy of the engineering or other report detailing the nature and severity of the problem and a written professional opinion of how imminent the system failure is likely to manifest itself. The District also must submit photographs of the problematic building area or system to the MSBA.
- | If a District selects Priority #3, Prevention of a loss of accreditation, the SOI will not be considered complete unless and until a summary of the accreditation report focused on the deficiency as stated in this SOI is provided.

**ADDITIONAL INFORMATION:** In addition to the information required above, the District may also provide any reports, pictures, or other information they feel will give the MSBA a better understanding of the issues identified at a facility.

If you have any questions about the SOI process please contact the MSBA at 617-720-4466 or [SOI@massschoolbuildings.org](mailto:SOI@massschoolbuildings.org).

## Massachusetts School Building Authority

---

School District    South Shore Regional Voc Tech

District Contact    TEL:

Name of School    So Shore Voc Tech High

Submission Date    6/2/2021

---

### SOI CERTIFICATION

To be eligible to submit a Statement of Interest (SOI), a district must certify the following:

- Ⓟ The district hereby acknowledges and agrees that this SOI is NOT an application for funding and that submission of this SOI in no way commits the MSBA to accept an application, approve an application, provide a grant or any other type of funding, or places any other obligation on the MSBA.
- Ⓟ The district hereby acknowledges that no district shall have any entitlement to funds from the MSBA, pursuant to M.G.L. c. 70B or the provisions of 963 CMR 2.00.
- Ⓟ The district hereby acknowledges that the provisions of 963 CMR 2.00 shall apply to the district and all projects for which the district is seeking and/or receiving funds for any portion of a municipally-owned or regionally-owned school facility from the MSBA pursuant to M.G.L. c. 70B.
- Ⓟ The district hereby acknowledges that this SOI is for one existing municipally-owned or regionally-owned public school facility in the district that is currently used or will be used to educate public PreK-12 students and that the facility for which the SOI is being submitted does not serve a solely early childhood or Pre-K student population.
- Ⓟ After the district completes and submits this SOI electronically, the district must mail hard copies of the required documentation described under the "Vote" tab, on or before the deadline.
- Ⓟ The district will schedule and hold a meeting at which the School Committee will vote, using the specific language contained in the "Vote" tab, to authorize the submission of this SOI. This is required for cities, towns, and regional school districts.
- Ⓟ Prior to the submission of the SOI, the district will schedule and hold a meeting at which the City Council/Board of Aldermen or Board of Selectmen/equivalent governing body will vote, using the specific language contained in the "Vote" tab, to authorize the submission of this SOI. This is not required for regional school districts.
- Ⓟ On or before the SOI deadline, the district will submit the minutes of the meeting at which the School Committee votes to authorize the Superintendent to submit this SOI. The District will use the MSBA's vote template and the vote will specifically reference the school and the priorities for which the SOI is being submitted. The minutes will be signed by the School Committee Chair. This is required for cities, towns, and regional school districts.
- Ⓟ The district has arranged with the City/Town Clerk to certify the vote of the City Council/Board of Aldermen or Board of Selectmen/equivalent governing body to authorize the Superintendent to submit this SOI. The district will use the MSBA's vote template and submit the full text of this vote, which will specifically reference the school and the priorities for which the SOI is being submitted, to the MSBA on or before the SOI deadline. This is not required for regional school districts.
- Ⓟ The district hereby acknowledges that this SOI submission will not be complete until the MSBA has received all of the required vote documentation in a format acceptable to the MSBA. If Priority 1 is selected, your SOI will not be considered complete unless and until you provide the required engineering (or other) report, a professional opinion regarding the problem, and photographs of the problematic area or system. If Priority 3 is selected, your SOI will not be considered complete unless and until you provide a summary of the accreditation report focused on the deficiency as stated in this SOI.



**LOCAL CHIEF EXECUTIVE OFFICER/DISTRICT SUPERINTENDENT/SCHOOL COMMITTEE CHAIR  
(E.g., Mayor, Town Manager, Board of Selectmen)**

**Chief Executive Officer \***

**School Committee Chair**

**Superintendent of Schools**

Thomas Hickey

Robert Heywood

Thomas Hickey

Superintendent of Schools



(signature)

(signature)

(signature)

Date

Date

Date

5/28/2021 11:06:44 AM

6/2/2021 8:47:02 AM

5/28/2021 11:06:02 AM

\* Local chief executive officer: In a city or town with a manager form of government, the manager of the municipality; in other cities, the mayor; and in other towns, the board of selectmen unless, in a city or town, some other municipal office is designated to the chief executive office under the provisions of a local charter. Please note, in districts where the Superintendent is also the Local Chief Executive Officer, it is required for the same person to sign the Statement of Interest Certifications twice.

# Massachusetts School Building Authority

School District South Shore Regional Voc Tech

District Contact TEL:

Name of School So Shore Voc Tech High

Submission Date 6/2/2021

### Note

#### The following Priorities have been included in the Statement of Interest:

1.  Replacement or renovation of a building which is structurally unsound or otherwise in a condition seriously jeopardizing the health and safety of school children, where no alternative exists.
2.  Elimination of existing severe overcrowding.
3.  Prevention of the loss of accreditation.
4.  Prevention of severe overcrowding expected to result from increased enrollments.
5.  Replacement, renovation or modernization of school facility systems, such as roofs, windows, boilers, heating and ventilation systems, to increase energy conservation and decrease energy related costs in a school facility.
6.  Short term enrollment growth.
7.  Replacement of or addition to obsolete buildings in order to provide for a full range of programs consistent with state and approved local requirements.
8.  Transition from court-ordered and approved racial balance school districts to walk-to, so-called, or other school districts.

### SOI Vote Requirement

I acknowledge that I have reviewed the MSBA’s vote requirements for submitting an SOI which are set forth in the Vote Tab of this SOI. I understand that the MSBA requires votes from specific parties/governing bodies, in a specific format using the language provided by the MSBA. Further, I understand that the MSBA requires certified and signed vote documentation to be submitted with the SOI. I acknowledge that my SOI will not be considered complete and, therefore, will not be reviewed by the MSBA unless the required accompanying vote documentation is submitted to the satisfaction of the MSBA.

**SOI Program:** Core **Potential Project Scope:** Renovation/ Addition  
**Is this a Potential Consolidation?** NO

**Is this SOI the District Priority SOI?** YES

**School name of the District Priority SOI:** 2021 So Shore Voc Tech High

**Is this part of a larger facilities plan?** YES

**If "YES", please provide the following:**

**Facilities Plan Date:** 2/14/2018

**Planning Firm:** Drummey Rosane Anderson, Inc.

**Please provide a brief summary of the plan including its goals and how the school facility that is the subject of this SOI fits into that plan:**

Please note: This plan was submitted hard copy in 2018. Please see our 2018 file for hard copy of the plan. In the Fall of 2017, the South Shore Regional School District hired DRA to help develop a 10-year comprehensive plan for the South Shore Regional Vocational Technical High School, located in Hanover, MA. The regional school district is comprised of the following towns: Abington, Cohasset, Hanover, Hanson, Norwell, Rockland, Scituate, and Whitman. The existing South Shore Vocational Technical High School is a single level building which opened in 1962. There were additions constructed to the original building in 1978 and 1992 and the campus consists of smaller out buildings (concessions building, maintenance building, and storage barn) and several shed type storage buildings for the various shops. The goal of the plan was to help guide the district's capital investments to maintain and modernize its existing building and grounds and help make well-informed decisions for future building renovations and additions to address lack of space and growing school enrollment. In late 2017, DRA and its consultant team performed site visits to the existing facility to perform an existing conditions assessment as well as reviewing the information provided by the Owner. The bulk of this documentation is provided in the Existing Conditions Report (ECR) and various Appendices for the individual consultant reports. An existing space study analysis was also provided and is also included in the ECR. This space study analysis looked at the size of the existing vocational shops and compared them to the Chapter 70 recommendations for square foot per students and current enrollments. This helped to determine which of the existing vocational shops were undersized. A similar analysis was done for academic classroom and other program spaces and compared them to the MSBA High School space study standards. This existing condition analysis also looked at other various infrastructure and finishes and helped develop a list of recommendations for work to be included in future renovations/building additions. This list of recommendations was then reviewed with the capital project committee and were categorized by priority (high, medium, and low). DRA also looked at potential options for additions to the existing facility to help minimize the space constraints. The various options are shown in the Potential Options section. Preliminary cost data was also developed for both the potential options and list of recommendations.

**Please provide the current student to teacher ratios at the school facility that is the subject of this SOI: 10 students per teacher**

**Please provide the originally planned student to teacher ratios at the school facility that is the subject of this SOI: 10 students per teacher**

**Does the District have a Master Educational Plan that includes facility goals for this building and all school buildings in District? NO**

**Does the District have related report(s)/document(s) that detail its facilities, student configurations at each facility, and District operational budget information, both current and proposed? YES**

**If "YES", please provide title, author, and date of report in area below.**

Long-Range Facilities Plan Author: Thomas Hickey Revised: January 2020

**Please include a hard copy of these report(s)/document(s).**

**Is there overcrowding at the school facility? YES**

**If "YES", please describe in detail, including specific examples of the overcrowding.**

Several vocational programs do not meet Chapter 74 space standards for their current enrollments, including but not limited to: Automotive, Health Assisting, Carpentry, Computer Information Technology, HVAC, and Electrical. Also the cafeteria, kitchen and science labs are undersized.

**Has the district had any recent teacher layoffs or reductions? NO**

**If "YES", how many teaching positions were affected? 0**

**At which schools in the district?**

**Please describe the types of teacher positions that were eliminated (e.g., art, math, science, physical education, etc.).**

**Has the district had any recent staff layoffs or reductions?** NO

**If "YES", how many staff positions were affected?** 0

**At which schools in the district?**

**Please describe the types of staff positions that were eliminated (e.g., guidance, administrative, maintenance, etc.).**

---

**Please provide a description of the program modifications as a consequence of these teacher and/or staff reductions, including the impact on district class sizes and curriculum.**

Does Not Apply

---

**Please provide a description of the local budget approval process for a potential capital project with the MSBA. Include schedule information (i.e. Town Meeting dates, city council/town council meetings dates, regional school committee meeting dates). Provide, if applicable, the District's most recent budget approval process that resulted in a budget reduction and the impact of the reduction to the school district (staff reductions, discontinued programs, consolidation of facilities).**

The school committee held its FY22 public budget hearing on January 27, 2021. It will certify its FY22 budget proposal on February 17, 2021. There are no budget reductions that adversely impact school facilities, class sizes and educational programs. Its last budget approval process for FY21 did not have any adverse effects on school facilities, class sizes and educational programs.

---

## General Description

---

**BRIEF BUILDING HISTORY: Please provide a detailed description of when the original building was built, and the date(s) and project scopes(s) of any additions and renovations (maximum of 5000 characters).**

South Shore Regional Vocational Technical High School (SST) opened its doors in 1962 to students in grades 11-12. By 1964 there was an enrollment of 142 students from 5 vocational programs: Automotive Repair, Electronics, Auto Body Repair, Machine Shop and Precision Metals. In 1978 a 5 room addition was added which now houses the science department. Another addition was constructed in 1992 which houses 8 vocational programs including a working restaurant, a working beauty salon and a 125 tiered seat lecture hall. In 1996, a detached 2,914 square foot garage/storage area was built by the carpentry program. In 2000, a three room modular unit was added outside the building envelope. In 2016-17, a 3,000 square foot maintenance building was constructed by our students and staff. This helped reduce the space issue for storage as cited in a 2013 NEASC report. In 2019 an existing out building was renovated to house the Horticulture and Landscape Construction program.

SST now has an enrollment of 637 students and a waiting list as of the start of the 2020-2021 school year.

**TOTAL BUILDING SQUARE FOOTAGE: Please provide the original building square footage PLUS the square footage of any additions.**

130000

**SITE DESCRIPTION: Please provide a detailed description of the current site and any known existing conditions that would impact a potential project at the site. Please note whether there are any other buildings, public or private, that share this current site with the school facility. What is the use(s) of this building(s)? (maximum of 5000 characters).**

SST is a single story building, 121,000 square feet, on 35 acres. As outlined below, there are other smaller buildings on campus totaling 9,000 square feet (two storage/maintenance barns, concession stand and a student-built maintenance building constructed during the 2016-17 school year). The school also has three modular classrooms installed in 2000 that total 1,600 square feet.

There are wetlands on the borders of the property. There are no known structural conditions that would impact this project. There is also a septic disposal field in the school's front yard.

Building Square Footage

Original Building (1962): 76,150

1978 Addition: 6,250

1992 Addition: 38,600

Modular Building: 1,650

Maintenance Building: 2,950

Concessions Building: 650

Barn: 3,100

Weight Room: 650

Total Building SF: 130,000

**ADDRESS OF FACILITY: Please type address, including number, street name and city/town, if available, or**

**describe the location of the site. (Maximum of 300 characters)**

476 Webster Street, Hanover, MA 02339

**BUILDING ENVELOPE: Please provide a detailed description of the building envelope, types of construction materials used, and any known problems or existing conditions (maximum of 5000 characters).**

The building envelope is 8'x16" cinder block walls with brick face. There are no problems or conditions with the building envelope. The windows were replaced in two phases in 2007 and 2011, and the roof over the 1962 original building was replaced in 2011.

The original building is primarily brick face with CMU back-up. There is a minimal cavity and there does not appear to be any insulation in the existing exterior walls. The windows and roof of the original building were replaced 5 years ago. The windows are double pane thermally efficient windows and the roof is a white PVC roof. The 1978 addition appears to be similar to the original building.

The 1992 addition is primarily brick face with metal stud back-up with acoustical insulation. The windows and roof are original to the 1992 addition. The windows are aluminum frame with some operable sections. The roof is a black EPDM that has been maintained through the years, but is reaching the end of its useful life expectancy.

**Has there been a Major Repair or Replacement of the EXTERIOR WALLS?** NO

**Year of Last Major Repair or Replacement:(YYYY)** 2011

**Description of Last Major Repair or Replacement:**

As part of a MSBA roof and window project, there was minor masonry work done around the exterior walls of the building. This was not a major project but the application required that a response be given in this section.

**Roof Section** A

**Is the District seeking replacement of the Roof Section?** NO

**Area of Section (square feet)** 71000

**Type of ROOF (e.g., PVC, EPDM, Shingle, Slate, Tar & Gravel, Other (please describe)**

Sarnafil

**Age of Section (number of years since the Roof was installed or replaced)** 7

**Description of repairs, if applicable, in the last three years. Include year of repair:**

Roof replaced over 1962 original building in 2011.

**Roof Section** B

**Is the District seeking replacement of the Roof Section?** YES

**Area of Section (square feet)** 38181

**Type of ROOF (e.g., PVC, EPDM, Shingle, Slate, Tar & Gravel, Other (please describe)**

EPDM

**Age of Section (number of years since the Roof was installed or replaced)** 26

**Description of repairs, if applicable, in the last three years. Include year of repair:**

In 2012, 2013 and 2014 seam and flashing repairs were completed as part of a stop-gap measure. The scope of the work included cleaning the existing membrane with EPDM splice wash, and applying splice primer and 5" wide cover strip materials. Cross lap intersections were detailed with lap sealant. Curb flashings and pipe penetrations were inspected and detailed as needed. The scope of this work was to extend the life of the roof by 5 or more years. The work was completed by Silktown Roofing. In any major renovation to the school, this section of roof should be replaced. PLEASE NOTE: As of the 2018-19 school year, we now have leaks in at least five areas resulting in damaged ceiling tiles.

**Window Section** A

**Is the District seeking replacement of the Windows Section?** NO

**Windows in Section (count)** 45



**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

The windows installed in the 1992 addition were aluminum frame type, double pane insulated windows as recommended by HKT Architects who designed the building addition. The district intends to fund a window replacement project in FY22.

**Age of Section (number of years since the Windows were installed or replaced)** 26

**Description of repairs, if applicable, in the last three years. Include year of repair:**

Several operable windows have failed and parts are difficult or impossible to obtain.

**Window Section B**

**Is the District seeking replacement of the Windows Section?** NO

**Windows in Section (count)** 28

**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

In 2007 we replaced the first phase of windows to the building with Peerless aluminum frame double pane windows. These windows were constructed with high performance low E insulated glass, aluminum frames and double pane type.

**Age of Section (number of years since the Windows were installed or replaced)** 11

**Description of repairs, if applicable, in the last three years. Include year of repair:**

N/A

**Window Section C**

**Is the District seeking replacement of the Windows Section?** NO

**Windows in Section (count)** 75

**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

These windows were also aluminum framed double pane windows. They adhered to the same specification as the 2007 replacement: high performance low E insulated glass, double pane aluminum frame window units.

The 7 gym windows are Kalwall.

**Age of Section (number of years since the Windows were installed or replaced)** 7

**Description of repairs, if applicable, in the last three years. Include year of repair:**

N/A

**MECHANICAL and ELECTRICAL SYSTEMS: Please provide a detailed description of the current mechanical and electrical systems and any known problems or existing conditions (maximum of 5000 characters).**

The building has two separate HVAC systems with separate controls. There is no overall building management system.

The 1962 building has a pneumatic controlled HVAC system. The 1992 addition has a separate electrically controlled system. Both systems operate off time clocks with functioning night set back. All rooftop units are gas fired and controlled by Honeywell TH8000 series programmable thermostats. The science wing had a new roof top unit installed during the 2011 roof and window renovation. The school is equipped with a 1990 Weil McLain dual fire burner/boiler and three 2016 Camco 3000MBH gas-fired high efficiency condensing boilers.

In 2015 we replaced all the pneumatic thermostats with Cypress Wireless Pneumatic Thermostats with BACnet Integrated Automation System which incorporates DDC functionality.

The building has 2 transformers: The 1962 building has a 208-volt 1200 amp service and the 1993 has a 480 volt 1200 amp service. Interior and exterior lighting systems have been upgraded periodically.

We still utilize the original motor control panel, which is still functional, but starters/heaters are burning out and replacements need to be retrofitted. In addition, breaker switches are wearing out and need to be replaced. This unit has served the district well but it is nearly 60 years old and at the end of its functional life.

The 1992 addition's motor control unit has had no mechanical issues or repairs and appears to be in functioning condition.

**Boiler Section 1****Is the District seeking replacement of the Boiler?** NO**Is there more than one boiler room in the School?** YES**What percentage of the School is heated by the Boiler?** 85**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Natural gas

**Age of Boiler (number of years since the Boiler was installed or replaced)** 2**Description of repairs, if applicable, in the last three years. Include year of repair:**

The 1962 H.B. Smith boiler was replaced through the ARP in early 2016.

**Boiler Section 2****Is the District seeking replacement of the Boiler?** NO**Is there more than one boiler room in the School?** YES**What percentage of the School is heated by the Boiler?** 85**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Natural Gas; Fuel oil is the back up source.

**Age of Boiler (number of years since the Boiler was installed or replaced)** 28**Description of repairs, if applicable, in the last three years. Include year of repair:**

Regular maintenance on this boiler has prevented the need for major repairs in the last three years.

**Has there been a Major Repair or Replacement of the HVAC SYSTEM?** YES**Year of Last Major Repair or Replacement:(YYYY)** 2011**Description of Last Major Repair or Replacement:**

In 2005, we replaced the 3 way valve, installed a new computerized hot water sequencer and outdoor transmitter with night set back, replaced unit ventilator controls, and added programmable thermostats to roof top units.

In 2011, we replaced a roof top unit during the roof replacement project.

The district replaced 4 rooftop units over its 1992 addition in June 2017.

**Has there been a Major Repair or Replacement of the ELECTRICAL SERVICES AND DISTRIBUTION SYSTEM?** YES**Year of Last Major Repair or Replacement:(YYYY)** 2013**Description of Last Major Repair or Replacement:**

We rewired the 1978 addition and also installed new exterior lighting in a portion of the parking lots where the lighting was inadequate.

**BUILDING INTERIOR: Please provide a detailed description of the current building interior including a description of the flooring systems, finishes, ceilings, lighting, etc. (maximum of 5000 characters).**

The 1962 building has terrazzo hallway floors with polished brick walls and plastered ceilings with "popcorn" finish. The classrooms and offices in this area are split with carpet, VCT and asbestos floor tiles. These tiles are in good condition and checked every six months during the AHERA inspections. In 2019-2020 the tiles were covered with new VCT tiles. The hallway and classroom floors in the 1978 addition are VCT and walls are painted cinder block. This addition has become a science wing and has been renovated by our staff. The 1992 addition flooring is split between VCT and concrete floors. The hallway walls are tiled and the shops and related room walls are sheet rock. Interior lighting fixtures use T-8 lamps. We have re-lamped with 25 watt Alto 2 energy efficient tubes and have added motion sensors in various areas. In the summers of 2015 and 2016 the restrooms were renovated in the 1962 building to partially address accessibility issues. In 2016 we also retrofitted all lighting in the gym, cafeteria and outdoors to LED. In 2018 we replaced the flooring in library, main office and student services office with LVT. From 2017-19 we replaced the hallway lights and shop lights with LEDs and new fixtures.

**PROGRAMS and OPERATIONS: Please provide a detailed description of the current grade structure and programs offered and indicate whether there are program components that cannot be offered due to facility constraints, operational constraints, etc. (maximum of 5000 characters).**

SST offers the following Chapter 74 programs: Automotive, Collision Repair, Culinary Arts, Carpentry, Cosmetology, Electrical, Electronics, Graphic Communications/Design & Visual Communications, Computer Information Technology, HVAC-R, Allied Health, Precision Machine Technology, Metal Fabrication/Welding and Horticulture & Landscape Construction. We also offer a full complement of academic courses in English, mathematics, science, social studies and physical education.

While all programs are operational, several are undersized. We cannot expand our Allied Health program to meet current student demand due to space constraints. We also have an Automotive program which is too small and has been recommended for expansion by recent NEASC accreditation visits. Our HVAC, Electrical and Carpentry programs are in shop spaces that are too small to meet student demand. Our physical education program does not have dedicated classroom space and cannot provide a full class (e.g. 20 students) access to a weight room or physical fitness equipment. Our science labs exist in retrofitted classrooms that are under 800 square feet; this requires the district to place limits on teacher/student ratios in the science labs. Our science chemical storage space is inadequate and has been cited on recent NEASC reports. We have three classrooms in a 20-year-old modular unit that presents a security and space challenge as it is not part of the building envelope.

**EDUCATIONAL SPACES: Please provide a detailed description of the Educational Spaces within the facility, a description of the number and sizes (in square feet) of classrooms, a description of science rooms/labs including ages and most recent updates, a description of the cafeteria, gym and/or auditorium and a description of the media center/library (maximum of 5000 characters).**

SST is a 130,000 square foot facility. There are 23 academic classrooms totaling 15,000 square feet. In 1978 a wing was added that was originally going to be for additional gym space, but it was instead converted into science classrooms, totaling 4,321 square feet. The district converted four classrooms into science labs and a fifth classroom into a CAD lab. None of our science labs meet current space standards.

In 2000, the district installed a three-room, 1,600 square foot modular classroom unit.

A major building addition was completed in 1992 which houses eight of the 14 vocational programs (including shop and classroom space). The classrooms in the 1992 addition cover nearly 4,000 square feet. Also included in this space are an 1,800 square foot lecture hall and an 875 square foot operating restaurant.

To provide additional educational space, significant amounts of supplies and equipment have been relocated to our outbuildings for storage of school supplies and equipment which is 2,914 square feet. One of these storage buildings was renovated in 2019 for the Horticulture & Landscape Construction program and an additional locker room. In early 2020 we finished construction on a greenhouse on campus for additional instructional space for the Horticulture & Landscape Construction program.

The school's cafeteria is overcrowded and uncomfortably tight for four lunch shifts. The gymnasium has minimal spectator seating and lacks space for simultaneous practices. There is no auxiliary gym station other than a minimal weight room.

**CAPACITY and UTILIZATION: Please provide the original design capacity and a detailed description of the current capacity and utilization of the school facility. If the school is overcrowded, please describe steps taken by the administration to address capacity issues. Please also describe in detail any spaces that have been converted from their intended use to be used as classroom space (maximum of 5000 characters).**

The building has occupancy permits for approximately 830. We have 638 students and 134 full-time and part-time staff. At this time, 11 of our vocational programs are at (or very close to) capacity. We continue to have more applications from our sending communities than openings. Over 90% of the classroom space is utilized consistently throughout the school

day, with most teachers sharing classrooms. We converted our special education office into a classroom in 2012. The administration has focused its efforts on reducing the amount of non-instructional space taken up in shops by relocating and reorganizing storage areas into out-buildings. Recently we renovated the Cosmetology program's instructional space to enhance our ability to meet student demand. We removed a mezzanine in our Precision Machine Technology program and downsized an office in our Automotive program to maximize instructional space in a program that is small given its equipment needs. We appear to be out of options short of a building addition.

**MAINTENANCE and CAPITAL REPAIR: Please provide a detailed description of the district's current maintenance practices, its capital repair program, and the maintenance program in place at the facility that is the subject of this SOI. Please include specific examples of capital repair projects undertaken in the past, including any override or debt exclusion votes that were necessary (maximum of 5000 characters).**

The school district maintains a Long Range Facilities Plan and a Capital Plan, both of which are reviewed at least annually. In 2017 the district commissioned a Master Facilities Plan by an outside professional firm (Drummeys Rosane Anderson) that included a list of capital repairs.

SST has a full time Building and Grounds Director who oversees all facility maintenance, and a 7.25 person maintenance staff who address general repairs as well as the routine cleaning procedures of the school.

The district is under contract with American Service Company to maintain the fire safety system, National Telecom to maintain the phone system, Automatic Temperature Control for major HVAC repairs, Superior Generator for the maintenance of our 2 emergency generators and Awesome Exterminating for pest maintenance.

We service and maintain most of the equipment in the building as well as the HVAC system. Our maintenance planning is aggressive as we have a 58 year old main building. Recently, we have invested in the installation of new outdoor lighting, renovations of classrooms, replacement of classroom doors, refinishing of 2 shop floors and student lockers, and the installation of hands free faucets, flushometers, lighting upgrades and motion sensors.

The most recent significant capital repair project was a \$1.1 million 2011 Roof and Window Project funded through MSBA. Notably, in 2019, the district paid off the debt principal one year early. The eight member towns voted, respectively, at town meetings to approve initiation of this project.

In 2016 the district utilized its Excess & Deficiency fund to pay for its share of the ARP costs for a boiler replacement.

In FY17 the district repaved a student parking lot and in FY18 replaced 4 rooftop units on the 1992 addition.

In FY20 we fixed long deferred fields drainage issues.

In FY21 we made security and access improvements replacing exterior doors and adding swipe card access.

**Priority 2*****Question 1: Please describe the existing conditions that constitute severe overcrowding.***

The educational program at South Shore Regional Vocational Technical High School is limited by the building space and infrastructure. It limits the depth and breadth of curriculum offerings, and further limits our ability to admit students into specific high-demand programs. The district seeks assistance to expand and renovate programs that have clear connections to local and regional labor market trends.

**1. Automotive Program**

Structurally, the Automotive shop has remained the same since it was built in 1962. The shop has 3,458 sq. ft. of instructional space for up to 30 students on any given instructional day. With the current number of high end car dealerships in the district, bringing with them multiple career opportunities, the department needs to change with the times and provide a work area that more closely mirrors these new state of the art dealerships. There is sustained local labor demand as evidenced by the following recently built dealerships near the school: Prime Infinity, Prime Mercedes, Prime Buick, Coastal VW, Coastal Nissan, Herb Chambers Lexus, BMW Gallery, Mini Gallery, Audi of Norwell, Porsche of Norwell.

Our Automotive Program has been cited in two recent NEASC accreditation visits (2003, 2013) as being too small to meet the demands of the program. An expansion is warranted and the district believes it can accomplish this in the most cost effective manner by sharing space with an adjoining vocational program. Despite maintaining its NATEF accreditation in all 8 areas available for certification, it cannot give more in depth access to the curriculum in areas cited below:

## Program Limitations:

- a. Students are in groups of 4 working on a car, which limits their ability to practice the skills being taught in the shop.
- b. Having to constantly pack away diagnostics equipment because the program lacks a dedicated diagnostics bay.
- c. The lack of a dedicated tire mounting/balancing and brake machining repair area.
- d. The lack of lab space for Automotive Theory lessons to incorporate STEM activities.
- e. The lack of a dedicated engine and transmission repair area to be used for senior projects and tear downs.
- f. Severely lacking in storage space; important equipment and practice lab mock ups are taking up valuable shop square footage. Increased storage would allow us to store more mock ups to increase our use of labs. This would also help with the current overcrowding of equipment in our related classroom.

In 2019, as a partial attempt to alleviate this problem, the Collision Repair program was merged with Automotive. Additional lifts were installed in the Collision Repair shop. This is not an ideal solution because these are two non-contiguous footprints.

**2. Allied Health Program Space Limitations**

The health care industry is one of the strongest sectors in the Commonwealth. In our region of northern Plymouth County, there are ample places for employment for our graduates, from South Shore Hospital and Jordan Hospital to various long-term care facilities.

The demand for our Allied Health program exceeds our ability to place students in the program. In 2019 we moved this shop

into our library which was slightly larger. The current Allied Health shop space is 1680 sq ft which is used for up to 24 students and two teachers. In 2008 NEASC recommendations included reorganizing the shop area, which was done promptly. Despite these adjustments, there is a lack of space preventing an increase of students while still maintaining the course curriculum as currently designed.

The district is investigating whether it could offer an after-hours LPN program for adults; such an expansion of this program would increase the chances that SST could expand its outreach into a non-high school population of learners seeking advanced skills for the workforce.

### **3. HVAC-R Program Space Limitations**

Our HVAC-R program is another example of a program with student demand that exceeds the space. The program requires considerable equipment inside the shop, as well as considerable storage that has been relegated to space outside the shop in an adjacent courtyard. Program advisors have been consistently advocating for more space for the program. We added a third teacher to this program to expand the program's outreach into plumbing. This will further drive the need for more space.

We are relegated to storing materials in outside storage containers and rack storage adjacent to the shop. Students often work outside the shop in an adjacent courtyard when weather permits. A relocated Allied Health program in #2 above would allow us to expand this program.

In 2019, in an effort to create more space inside the building, we removed a refrigerated cooler from the shop and put it outside the shop in an adjacent courtyard. This is not an ideal solution to this problem.

### **4. Math and English Language Arts Classes in Modular Units**

SST installed a three-classroom modular unit in 2000. It sits outside the building envelope requiring students to leave the main building to access the modulares. This presents an increasing safety and security challenge. The classrooms are small but must accommodate both student enrollment and teacher resources (e.g. instructional storage, copiers). Currently two classrooms house 20 students each. One of the classrooms was originally our special education office, which now houses 10 students. If this structure were to fail, we would not be able to place 3 teachers and 50 students per class period inside the building envelope without a major disruption to other programs. Students must leave the school building to access these classrooms. In 2019 we built stockade fencing around this space to improve security, but this area is a security risk in terms of giving students access to the building.

### **5. Science Department**

Science lab and storage space issues:

SST currently uses 4 lab classrooms (sizes range between 774-992 sq ft) and one chemical storage area (187.5 sq ft) to teach 450 students in 4 instructional blocks per day. There is also a CAD/computer lab that is used by students in Engineering classes. With the increase in state requirements for science, the district has invested considerable funds to improve natural light and ventilation, along with running gas and water to two labs where they did not previously exist. Most of these labs were not built as science space originally.

There are several instructional limitations in this arrangement.

- 1 There is inadequate storage space for chemicals and space for laboratory preparations. Science teachers are constantly having to interrupt other science classes because of set up and clean up of labs, usually the last 5 to 10 minutes of class. This is due in part to the small prep/storage area for the science department.
- 1 There is not enough space for demonstration tables in three lab classrooms (Rooms 202, 204 and 206A). In most classrooms



there is the teacher desk and student paired desks, but no independent demonstration table.

- 1 There is limited student bench space in the classrooms, which is exacerbated when students are required to move around the labs areas.
- 1 There is limited space to enact Robotics lessons as part of our Engineering curriculum.

In early 2020 we expanded cabinets in one classroom to alleviate some overcrowding in the science storage room.

## **6. Inadequate Physical Education/Health/Wellness Education Instructional Space**

There is no dedicated classroom space for our health education program. All health classes are run in the gymnasium which presents scheduling challenges.

Our current exercise and fitness room at SST is inadequate due to the small size and lack of equipment. At 600 square feet, approximately six to eight students can safely work out in there, but the equipment is very limited because several pieces were removed to make room for the athletic trainer to administer to athletes. As it stands right now, the room cannot accommodate a wellness class, rendering it underutilized during the day.

This severely limits the program options for over 600 students. We are unable to include these health and wellness program components:

- a. Use of a variety of cardio and general strength training equipment. Students are limited to engaging in strength training exercises using body weight, resistance bands and small hand held dumbbells in the gymnasium.
- b. Students currently participate in cardio exercise by walking, running or jumping rope in the gym. With an expanded weight room/training facility, they could use a variety of modalities that can be adjusted to meet individual fitness needs.
- c. Ideally we would seek to accommodate 20-30 students with a cardio area, weight lifting area, workout area and the athletic trainer office/treatment area. For a school our size, the cardio area should include 3 treadmills, 3 elliptical machines and 3 stationary bikes. The strength training area should include 4 squat racks with the appropriate benches, free weights and bars. It should also include one of each of the following pieces of equipment: leg press, leg extension, hamstring curl, chest press, seated row, military press, latissimus pull and a chin up/dip bar.

A workout area would be designated for fitness exercises or group instruction involving stability balls, medicine balls, kettlebells, free weights, abdominal work, yoga and stretching. This area needs a large storage area where all of this equipment could be secured.

In 2019, in order to provide more space in the weight room, we needed to move the athletic trainer into a storage room adjacent to the basketball court. In addition, athletics storage is largely far from the gymnasium, making it cumbersome to retrieve and return after PE lessons.

## **7. Limitations of Vocational Technical Space**

Many of our vocational technical programs are below the recommended square footage per pupil. It is not realistic to enhance all of our programs, but we feel that there is a need to expand programs that are in high demand and have a local labor market need.

Below is a chart that compares the Chapter 74 recommended vocational technical "shop" space (as per the Department of Elementary and Secondary Education) and the actual space.

Program	Recommended Minimum Shop Area	Actual Shop Area	All existing spaces are smaller unless noted below
Automotive	7150	4725 + 3825	Shop is split in 2 separate locations.
Carpentry	6750	5090	Smaller than recommended minimum
Culinary Arts	3625	4250	Includes restaurant
Electricity	7425	3885	Smaller than recommended minimum
Graphic Communications	3600	3425	Recently converted classroom to increase shop space
Health Assisting	3000	1565	Smaller than recommended minimum
HVAC-R	4800	3090	Smaller than recommended minimum
Computer Information Tech	3080	1695	Smaller than recommended minimum
Metal Fabrication/Welding	5200	7440	Additional space provided when adjacent program closed

### 8. Relocation of Library Media Center (LMC) to Lecture Hall

In 2021 we are moving the LMC to our lecture hall, the last remaining "open" space in the building. Several dozen seats will be lost in the move. This move was necessary to accommodate our Allied Health program needing more space (see #2 in this section). The LMC will be used for multiple purposes including small group testing, in-school supervision, occasional classes.

**Priority 2**

***Question 2: Please describe the measures the School District has taken to mitigate the problem(s) described above.***

**Allocation of internal instructional space:** To the greatest extent possible, the district has adapted to meet the needs of our students. In 1993, every shop had a dedicated classroom and virtually every teacher had his/her own classroom. Since 1993, with a significant increase in enrollment and expanded MCAS demands, we added 12 academic teachers (from 16 in 1993 to 28 today). Today, nearly every teacher shares a classroom, several teachers "roam" between multiple classrooms to teach, and there are only a handful of classrooms that are occasionally empty during the day.

In addition, we have built embedded classrooms inside Graphic Communications and Metal Fabrication Welding programs. We have also started using our school restaurant for Culinary Arts instruction. This was necessary to accommodate increased enrollment and additional classrooms needed for courses. Needless to say, by adding classrooms in shop areas, it has diminished available shop space.

Here are some other internal adjustments that have been made to address increased enrollment:

1. Converted two classrooms into Science labs; installed gas and water lines.
2. Removal of administrative office to enlarge a classroom.
3. Merged two small classrooms to allow for scheduling larger classes.
4. Removed storage closet to expand smaller classroom.
5. Relocated Auto Body related to make room for Computer Information Technology program.
6. Mezzanine removed in Precision Machine Technology to allow for addition of lab area.
7. Lecture hall seats added (but insufficient space for an entire class).
8. Cosmetology related room renovated to allow for classroom sharing with larger classes.
9. Reorganized Guidance and Special Ed Departments into one location; relocated Vocational Director's office and Technology Department.
10. Constructed silkscreen rooms inside the Graphic Communications shop.
11. Closure of Drafting Shop in 2018 and merging of resources with Electronics and Precision Machine program; freeing up partial space for new Horticulture Program.
12. Constructed external greenhouse; renovated existing barn for Horticulture Landscape program.
13. Moved Allied Health shop to library; moved library to lecture hall (with significantly reduced seats).

**Physical Education/Health & Wellness**

In 2018 we constructed a maintenance building with our students. However, it does not address the core issues raised earlier about the lack of dedicated classroom space or the inadequate weight room. In 2019 we renovated a satellite locker room closer to the athletic fields which will alleviate overcrowding during two sports seasons.

**Non-Instructional Storage Space**

With increased student enrollment comes the need for increased resources. In an effort to maximize instructional space (before requesting new space), we have taken steps to minimize the non-instructional space:

1. Athletic storage area near boys' locker room reduced to allow for increased student file storage and paper storage.
2. Book storage area converted into server room.
3. Automotive storage lean-to built in courtyard.
4. HVAC-R shop mezzanine taken down.
5. Two storage containers purchased for Heating, Ventilation and Air Conditioning and Collision Repair.
6. Two storage sheds added for Electrical and Allied Health.

7. Graphic Communications relocated paper storage; converted old dark room into office space.
8. Renovation of Guidance suite to combine with Special Ed Department and Speech/Language office.
9. Removal of mezzanine in Precision Machine Technology program to increase instructional space.
10. Expansion of Automotive into Collision Repair shop space.
11. Conversion of a storage area between two manufacturing programs into a clean room/inspection room.

The district has also made alterations to several of its boys' and girls' rooms to improve accessibility.

**Priority 2**

***Question 3: Please provide a detailed explanation of the impact of the problem described in this priority on your district's educational program. Please include specific examples of how the problem prevents the district from delivering the educational program it is required to deliver and how students and/or teachers are directly affected by the problem identified.***

**1. Automotive Program Limitations that affect students and teachers:**

- a. The most noticeable limitation is that students are often in groups of 4 working on a car, which limits their ability to practice the skills being taught in the shop.
- b. Having to constantly pack away diagnostics equipment because the program lacks a dedicated diagnostics bay.
- c. The lack of a dedicated tire mounting/balancing and brake machining repair area.
- d. The lack of lab space for Automotive Theory lessons to incorporate STEM activities.
- e. Currently we have only four above-ground lifts and one drive-on alignment rack to be shared by up to thirty students during a shop cycle. This leads to overcrowding and possible safety issues.
- f. The lack of a dedicated engine and transmission repair area to be used for senior projects and tear downs.
- g. Severely lacking in storage space. Important equipment and practice lab mock ups take up valuable shop square footage. Increased storage would allow us to store more mock ups to increase our use of labs. This would also help with the current overcrowding of equipment in our related classroom.

**2. HVAC-R, Electrical and Allied Health Program Limitations:**

We cannot meet the student demand for enrollment in these programs. HVAC-R and Electrical represent industries and career paths that show strong regional employer demand. In the HVAC-R program in particular there is considerable instructional space devoted to equipment, which limits the space for students and teachers. Students in both programs have very limited table space for projects.

Each program requires considerable equipment inside the shop, as well as considerable storage that has been relegated to space outside the shop in an adjacent courtyard. Program advisors have been consistently advocating for more space for the program.

We added a third teacher to the HVAC-R program to expand the program's outreach into plumbing, and we are adding an aide to the Electrical program.

We are relegated to storing materials in outside storage containers and rack storage adjacent to the shop. Students often work outside the shop in an adjacent courtyard when weather permits.

Our Allied Health program does not have enough space to accommodate two grades of students concurrently to both work on theory and hands-on activities. We are limited by the space to take more students into the program. Were we to add more practice stations (beds, mannequins, wheelchairs), it would further limit the space for students.

**3. Math and English Classes in Modular Unit:**

The modular unit classrooms are cramped. Group projects are difficult because furniture cannot be moved easily. One room in

particular has limited options with installing instructional technology (e.g. interactive whiteboards). In addition, this is not an ideal safety and security arrangement given the fact that the modular unit is outside the building envelope. We have no way of accommodating these classes in the building should the modular unit fail in some capacity.

#### 4. Science Department Space:

There are several instructional limitations in this arrangement.

- 1 There is inadequate storage space for chemicals and space for laboratory preparations. Science teachers are constantly having to interrupt other science classes because of set up and clean up of labs, usually the last 5 to 10 minutes of class. This is due in part to the small prep/storage area for the science department.
- 1 There is not enough space for demonstration tables in three lab classrooms (Rooms 202, 204 and 206A). In most classrooms there is the teacher desk and student paired desks, but no independent demonstration table.
- 1 There is limited student bench space in the classrooms, which is exacerbated when students are required to move around the lab areas.
- 1 There is limited space to enact Robotics lessons as part of our Engineering curriculum.

#### 5. Inadequate Physical Education/Health/Wellness Education Instructional Space:

There is no dedicated classroom space for health and wellness courses. Dedicated classroom space would allow a PE teacher to have the full range of instructional technology resources offered to other disciplines.

Any lesson planning involving weight training is inaccessible given the small size of the weight room. Physical education activities are limited to what can be done in the gymnasium with larger class sizes.

#### 6. Lack of ideal LMC space and limited Lecture Hall Use:

The impact is self-evident - we are forced to restrict school events to our gym or cafeteria. The LMC space in a lecture hall is not the most ideal educational environment.

Please also provide the following:

<b>Cafeteria Seating Capacity:</b>	175
<b>Number of lunch seatings per day:</b>	4
<b>Are modular units currently present on-site and being used for classroom space?:</b>	YES
<b>If "YES", indicate the number of years that the modular units have been in use:</b>	18
<b>Number of Modular Units:</b>	1
<b>Classroom count in Modular Units:</b>	3
<b>Seating Capacity of Modular classrooms:</b>	15
<b>What was the original anticipated useful life in years of the modular units when they were installed?:</b>	10
<b>Have non-traditional classroom spaces been converted to be used for classroom space?:</b>	YES



If "YES", indicate the number of non-traditional classroom spaces in use: 5

Please provide a description of each non-traditional classroom space, its originally-intended use and how it is currently used (maximum of 1000 characters):

1. We have been forced to build classrooms inside our vocational program 'shop' space in Metal Fabrication/Welding. This is taking away shop floor space forcing tighter location of equipment in some cases.
2. Conversely, we have converted a classroom into shop space for our Cosmetology program in order to accommodate a better environment for student instruction.
3. We converted a special education office, originally located in a modular unit, into a small classroom.
4. Health /wellness classes are taught in the gym with students sitting in the gym bleachers.
5. We renovated a barn/out building to accommodate our Horticulture & Landscape Construction program and to allow for more locker room space.

Please explain any recent changes to the district's educational program, school assignment policies, grade configurations, class size policy, school closures, changes in administrative space, or any other changes that impact the district's enrollment capacity (maximum of 5000 characters):

1. The Vocational Office was located in an area formerly used for Drafting classes. With more space, we could return this administrative space for instructional purposes and centralize administrative office space more efficiently.

2. We built a small office for HR Coordinator in the high school main office. In addition, the district office for the superintendent and business office is in the same cramped space as the high school office.

In terms of changes to the district's educational program, we are hampered in various ways:

1. Several vocational programs have to refuse students who wish to major in the program, due to lack of space (e.g. Electrical, HVAC-R, Carpentry & Metal Fabrication/Welding).

2. Automotive Technology cannot devote instructional time to diagnostic work because it lacks the ability to have a dedicated bay. Students are not able to work on as many projects due to higher student to car ratios (e.g. 3-4 students working on one vehicle).

3. Allied Health, which has one of the strongest post-secondary markets in our region, is unable to expand into Medical Assisting given the lack of space. In 2020 we moved Allied Health to our Library Media Center to gain a bit more space.

4. The Carpentry program had a canopy built just outside the shop as a creative way to expand shop space, albeit outdoors, because there is insufficient internal space to accommodate student demand for the program.

5. Allied Health, HVAC-R and Electrical programs rely on off campus work and externships as a way of mitigating the small instructional spaces. It would be difficult were both programs required to house two grades of students concurrently in their shop areas for full days of instruction on a regular basis.

6. Precision Machine Technology removed its mezzanine, used for light storage, in order to spread out equipment to address more engineering concepts in the program. This decision tries to address one issue (instructional space) but leaves another issue (storage) largely unresolved.

7. We are unable to completely house the Horticulture & Landscape Construction program inside the school and, consequently, we renovated a barn/out building for equipment and storage, and built a greenhouse.

What are the district's current class size policies (maximum of 500 characters)?:

There is a guideline in the collective bargaining agreement for a 25:1 ratio.

**Priority 4**

***Question 1: Please describe the conditions within the community and School District that are expected to result in increased enrollment.***

---

One unique feature of our region is that there are 5 communities in close proximity to our regional district with no vocational-technical affiliation and limited access to enrollment; there is growing non resident student interest in SST.

The district has seen increased student applications. We currently have 334 applications for a 2021-2022 9th grade class estimated at 160 students. The results of these demands are that we remain unable to accommodate all of the student interest and are left with modest waiting lists at the end of the admissions process. Further restrictions are evident for admitted students who cannot access programs due to space limitations combined with over subscription. In other words, there are instances of students who are admitted to SST but who cannot enroll in the program of their choice due to its popularity and the lack of instructional space for the program.

**Priority 4**

***Question 2: Please describe the measures the School District has taken or is planning to take in the immediate future to mitigate the problem(s) described above.***

---

The district has taken or is planning to take several measures:

1. The district has taken on considerable expense to renovate instructional and non-instructional spaces as expressed in Priorities 2 & 7. In 2019 we built (with our own students and staff) a locker room on campus in order to address the fact that, due to increased enrollment and athletics participation, we have insufficient locker room space for students in two sports seasons.
2. We have hired additional personnel and paraprofessionals to support our student body and to provide greater instructional opportunities. Most recent actions include: (1) Hiring an additional Metal Fabrication teacher to address student demand for that program. We have been turning away students seeking that program; (2) To handle increased applications and admissions demands, we reorganized our guidance office and designated one counselor as the recruitment and admissions counselor; (3) We hired a Plumbing teacher to join the HVAC-R program; (4) We are adding technical aides to our Horticulture and Electrical programs to address student demand.
3. In 2019, we renovated an out building for our new Horticulture & Landscape Construction Program.
4. In 2020, we are resubmitting this Statement of Interest (for the 6th time) in hopes of reaching a long-term, educationally appropriate and economically feasible solution in partnership with the MSBA.

**Priority 4**

**Question 3: Please provide a detailed explanation of the impact of the problem described in this priority on your district's educational program. Please include specific examples of how the problem prevents the district from delivering the educational program it is required to deliver and how students and/or teachers are directly affected by the problem identified.**

The district's inability to give students access to the school results in the students having no vocational technical training in high school. This depletes the pipeline of students into the workforce and further limits students' access to vocational technical education.

Despite these limitations, we are exploring ways of offering programs outside the normal school day. In the past, we have run an after-school program with students from North River Collaborative, and are currently running evening training programs with area Workforce Development Boards. We also collaborated with UMass Lowell to teach a Manufacturing course to area high school students after hours.

We are also increasing our efforts to recruit upperclassmen who could join a program that might have space. We believe students can still learn many important transferable skills in a Chapter 74 program even if they are unable to join the school in grade 9.

**Please also provide the following:**

**Cafeteria Seating Capacity:** 175

**Number of lunch seatings per day:** 4

**Are modular units currently present on-site and being used for classroom space?:** YES

**If "YES", indicate the number of years that the modular units have been in use:** 18

**Number of Modular Units:** 1

**Classroom count in Modular Units:** 3

**Seating Capacity of Modular classrooms:** 15

**What was the original anticipated useful life in years of the modular units when they were installed?:** 10

**Have non-traditional classroom spaces been converted to be used for classroom space?:** YES

**If "YES", indicate the number of non-traditional classroom spaces in use:** 5

**Please provide a description of each non-traditional classroom space, its originally-intended use and how it is currently used (maximum of 1000 characters):**

1. We have been forced to build classrooms inside our vocational program 'shop' space in Metal Fabrication/Welding. This is taking away shop floor space forcing tighter location of equipment in some cases.
2. Conversely, we have converted a classroom into shop space for our Cosmetology program in order to accommodate a better environment for student instruction.
3. We converted a special education office, originally located in a modular unit, into a small classroom.
4. Health /wellness classes are taught in the gym with students sitting in the gym bleachers.
5. We renovated a barn/out building to accommodate our Horticulture & Landscape Construction program and to allow for more locker room space.

**Please explain any recent changes to the district's educational program, school assignment policies, grade configurations, class size policy, school closures, changes in administrative space, or any other changes that impact the district's enrollment capacity (maximum of 5000 characters). :**

1. The Vocational Office was located in an area formerly used for Drafting classes. With more space, we could return this administrative space for instructional purposes and centralize administrative office space more efficiently.

2. We built a small office for HR Coordinator in the high school main office. In addition, the district office for the superintendent and business office is in the same cramped space as the high school office.

In terms of changes to the district's educational program, we are hampered in various ways:

1. Several vocational programs have to refuse students who wish to major in the program, due to lack of space (e.g. Electrical, HVAC-R, Carpentry & Metal Fabrication/Welding).
2. Automotive Technology cannot devote instructional time to diagnostic work because it lacks the ability to have a dedicated bay. Students are not able to work on as many projects due to higher student to car ratios (e.g. 3-4 students working on one vehicle).
3. Allied Health, which has one of the strongest post-secondary markets in our region, is unable to expand into Medical Assisting given the lack of space. We moved Allied Health to our Library Media Center to gain a bit more space.
4. The Carpentry program had a canopy built just outside the shop as a creative way to expand shop space, albeit outdoors, because there is insufficient internal space to accommodate student demand for the program.
5. Allied Health, HVAC-R and Electrical programs rely on off campus work and externships as a way of mitigating the small instructional spaces. It would be difficult were both programs required to house two grades of students concurrently in their shop areas for full days of instruction on a regular basis.
6. Precision Machine Technology removed its mezzanine, used for light storage, in order to spread out equipment to address more engineering concepts in the program. This decision tries to address one issue (instructional space) but leaves another issue (storage) largely unresolved.
7. We are unable to completely house the Horticulture & Landscape Construction program inside the school and, consequently, we renovated a barn/out building for equipment and storage, and built a greenhouse.

**What are the district's current class size policies (maximum of 500 characters)?:**

There is a guideline in the collective bargaining agreement for a 25:1 ratio.

**Priority 5**

*Question 1: Please provide a detailed description of the issues surrounding the school facility systems (e.g., roof, windows, boilers, HVAC system, and/or electrical service and distribution system) that you are indicating require repair or replacement. Please describe all deficiencies to all systems in sufficient detail to explain the problem.*

**1. The HVAC system in the 1962 and 1992 sections and the 1962 motor control panel**

All motor driven HVAC equipment relating to the 1962 and 1992 building and the 1962 motor control panel should be replaced, including all unit ventilators, air handling units and exhaust fans. The pneumatic system should be replaced with a new DDC control Energy Management System, all isolation valves and related shut off valves that are no longer operational should also be replaced.

The school's current HVAC system is the original pneumatic Johnson Controls system that was installed in 1962. The major concerns stem from the age of the system in the form of repairs. Pneumatic electric switches continue to fail as well as heating valves, unit motors and damper controls. Pneumatic valve diaphragms on the control panel are starting to fail and the clock-day-night switches are failing. Over the past 12 years we have continued to make upgrades and repairs to make the system as efficient as we can. In 2016, the district invested over \$30,000 to install wireless pneumatic controls in the 1962 building to better coordinate energy efficiency. We have installed time clocks for the heating units and exhaust fans and repaired the system to restore the day/night set back into working order. We continue to make repairs to the 1962 AAF Nelson Aire Mark II unit ventilators. We have repaired and replaced thermostats that are failing, repaired and continue to repair pneumatic leaks, and room temperature comfort is difficult to maintain. We are still able to get replacement parts for all the units but many have to be retrofitted which leads to higher costs to the district to complete the retrofit procedure and many of the parts are not readily available which takes time and in some cases leaves a classroom at an uncomfortable temperature level for learning.

The exhaust fans are failing; they are also the 1962 original fan units. Motors and bearings are continually burning and wearing out. We repair the shrouds yearly as the hardware that holds them together is old and rusted or broken. When servicing the units, it takes double the time due to the work to remove and repair the covers. The motors and replacement motors are not energy efficient as a new unit would be.

**2. 1992 Roof, Windows & Metal Panels**

The 1992 roof has been maintained with regular investments of proactive maintenance. In 2018-19 rain water damaged ceiling tiles and created safety hazards on hallway floors - a sign of the roof coming to the end of its useful life. There is ceiling damage in our center hallways and school restaurant. It will not be long before this "band-aid" approach fails and total roof replacement becomes a necessary expense for the district to incur. The windows and metal panels under the windows were also recommended for replacement as they approach 30 years of use. The district is seeking FY21 budget funds for an OPM and Architect so that the roof issue can be addressed in FY22.

**3. Septic system**

The Septic was upgraded in 1992 when the addition was constructed (585 students). However, there are two rear tanks that are original to the building with original lines plumbed to them which are showing signs of fatigue; the rear septic tank is in need of replacement as it is over 52 years old and there is disintegration at the bottom of the tank. The ejector pump chamber is also beginning to break down, concrete has begun to deteriorate and in some cases pieces of the concrete have become caught in the pumps damaging the pump impellers. The lines and new tank installed with the addition appear to be in good condition with no known problems. The district is seeking \$280,000 in FY21 budget funds to repair these deficiencies.



#### **4. Life Safety Systems**

Our recent Master Facilities Plan revealed that the school's fire alarm is in fair condition but does not meet current standards. There are no CO detection sensors. There is no fire protection sprinkler system. Additional security cameras and access control devices were also recommended.

#### **5. Roof on 2000 Modular Unit**

The school relies on a detached three-classroom modular unit for academic classes. At 20 years old, the unit remains a security concern as it is not attached to the building envelope. The roof needed an emergency replacement in 2019.

#### **6. System Failure of Girls' Bathroom**

Due to corroding pipes, we needed to shutter a girls' bathroom in 2021 and redirect students to other bathrooms. We will work on an emergency repair in summer 2021, but this is indicative of the need for replacing original infrastructure.

**Priority 5**

***Question 2: Please describe the measures the district has already taken to mitigate the problem/issues described in Question 1 above.***

As one of the oldest regional vocational technical high schools in Massachusetts, SST places the highest priority on facilities maintenance. The district sets aside funds annually in its maintenance cost center for repairs. Preventative maintenance and inspections occur frequently to extend the life span of these systems/units. More specific information on mitigation is below:

**1. The HVAC system in the 1962 and 1992 sections and the 1962 motor control panel**

Over the past 12 years we have continued to make upgrades and repairs to make our HVAC system as efficient as possible. We have installed on off time clocks for the heating units and exhaust fans and restored the night set back operations to working order. We continue to make repairs as well as preventive maintenance repairs to all unit ventilators, air handlers which include repairing of air leaks, replacement of motors, valves, limit thermostats. The exhaust fans have had motors and bearings replaced, in many cases the fan shroud hardware is rusted so badly it takes double the time to service the units due to the cover repairs. We replaced all the pneumatic thermostats with Cypress wireless pneumatic thermostats (a \$30,000 upgrade). As we make repairs to all the units parts are harder to purchase and most require an extensive retrofit to keep them operational.

The motor control panel has had starter/heaters and breakers fail. Aside from routine "exercise" of the units, we can only replace the units as they fail. The parts are becoming harder to obtain and most have to be retrofitted to work.

In 2019 students installed mini splits in the 1962 classrooms to help with climate control in warmer weather months.

**2. 1992 Roof**

The 1992 roof has been maintained with regular investments of proactive maintenance. In 2018-19 rain water damaged ceiling tiles and created safety hazards on hallway floors - a sign of the roof coming to the end of its useful life. It will not be long before this "band-aid" approach fails and total roof replacement becomes a necessary expense for the district to incur. The district is seeking FY21 budget funds for an OPM and Architect so that the roof issue can be addressed in FY22.

**3. Septic system**

Over the years as it has become apparent there are issues with the septic and pump chamber tanks. We have gone to semi annual pumping and inspecting of the tanks, and we have "jet rodded" the lines to the two tanks which we will do on an annual basis. We have also had our plumbing contractor rake and remove the debris at the bottom of the pump chamber. The district is seeking \$280,000 in FY21 budget funds to repair these deficiencies.

**4. Life Safety**

The school has added some security cameras recently and is targeting additional budget requests in this category for the upcoming fiscal year.

**5. 2000 Modular Unit Roof**

The school relies on a detached three-classroom modular unit for academic classes. At 20 years old, the unit remains a security concerns as it is not attached to the building envelope. The roof needed an emergency replacement in 2019.

**6. System Failure of Girls' Bathroom**

Due to corroding pipes, we needed to shutter a girls' bathroom in 2021 and redirect students to other bathrooms. We will work on an emergency repair in summer 2021, but this is indicative of the need for replacing original infrastructure.

**Priority 5**

***Question 3: Please provide a detailed explanation of the impact of the problem/issues described in Question 1 above on your district's educational program. Please include specific examples of how the problem prevents the district from delivering the educational program it is required to deliver and how students and/or teachers are directly affected by the problem identified.***

---

Regarding the HVAC system in both sections (1962 and 1992) of the high school, we are still able to get replacement parts for all the units but many have to be retrofitted which leads to higher costs to the district to complete the retrofit procedure, and many of the parts are not readily available which takes time and in some cases leaves a classroom at an uncomfortable temperature level for learning.

The 1992 roof has been maintained with regular investments of proactive maintenance. In 2018-19 rain water rain water has damaged ceiling tiles and created safety hazards on hallway floors - a sign of the roof coming to the end of its useful life. It requires additional custodial maintenance attention and roof repairs from outside contractors.

The septic is functioning but there are issues with the system: The tanks are beginning to deteriorate and the piping coming out of the building is beginning to deteriorate. We jet rod the lines on a semi annual basis to keep them clear. One challenge of expansion is limited space for a new septic system and leeching field. Expanded leeching fields would reduce our ability to expand the building and/or increase parking for staff and students.

The overall life safety systems are less than ideal, but do not currently limit the delivery of our educational program.

The modular unit roof repairs are a symptom of the larger issue of a lack of space and proper security. We need this space for three classrooms to deliver the instructional program but would prefer it be housed inside the building envelope.

The failing bathroom presents an inequitable situation near our gymnasium with no female bathrooms readily available.

**Priority 5**

**Question 4: Please describe how addressing the school facility systems you identified in Question 1 above will extend the useful life of the facility that is the subject of this SOI and how it will improve your district's educational program.**

There are clear benefits to replacing the **1962 and 1992 HVAC systems and the motor control panel**:

- | Eliminate the high yearly repair costs to the district.
- | A DDC System can save up to 15% in energy costs per year.
- | Lower maintenance, more accurate temperature control, system diagnosis and monitoring functions.
- | Improved air quality and reduced control calibration (most digital controllers do not require calibration).
- | DDC would replace pneumatic equipment allowing energy management, control and system diagnosis from a central computer.
- | Installing wireless thermostat/time clock units to replace the mechanical time clocks will allow us to schedule on/off times on a daily basis, as well as scheduling for holidays, vacations, and early release days.

Not only is the motor control panel beginning to fail and replacement parts more difficult to find, to upgrade our school to a fully functional DDC HVAC system, the panel will have to be replaced. It is not suitable to control an advanced system like today's HVAC units with a 52 year old control panel.

It will be beneficial for the district to replace the **1992 roof** before the condition is such that the leaks are so bad the ceilings and walls begin to be damaged, as well as classroom items such as computers, books, electrical fixtures and furniture. It could create a possible future mold situation. A total roof replacement with a 25-year warranty will minimize future issues and expenses.

The **septic** and pump chamber tanks are difficult to maintain as there is really not too much that can be done to keep it operational other than pumping, which is why we now do semi-annual pumping.

Upgrading the **life safety systems** will be required as part of any renovation/addition project.

Expanding the building and eliminating the **2000 modular unit** will improve security and better control for maintenance costs.

Upgrading 1962 plumbing will ensure no future system failures as with the aforementioned girls' bathroom.

**Please also provide the following:**

**Have the systems identified above been examined by an engineer or other trained building professional?:**

YES

**If "YES", please provide the name of the individual and his/her professional affiliation (maximum of 250 characters):**

The systems described above have been examined by Robert Lee, President of Commercial Boiler Systems of Pembroke, MA and James Goodwin and Gerald Hickey of Automatic Temperature Control of Weymouth, MA.

**The date of the inspection:** 2/2/2019

**A summary of the findings (maximum of 5000 characters):**

These systems are examined on an annual basis during the summer months by both of the mentioned companies. The

findings have been consistent to what has been described in this document. The systems have long out served their life expectancy and are in need of repeated repairs. Difficulty in maintaining service parts has caused discomfort in rooms while awaiting parts to repair the units, and the systems are no longer efficient to operate. Both companies are in agreement that replacement of the systems would be beneficial to the district. Replacement would eliminate emergency repair calls and the constant need to locate parts.

Each of these areas have been reviewed by our professional design team during the recent Facilities Master Plan project. The team included:

Architects: DRA, Inc.

MEP Engineers: CES, Inc.

Structural Engineers: EDG, Inc.

Civil Engineers: Samiotes

Security Consultants: Accentech



**Priority 7**

***Question 1: Please provide a detailed description of the programs not currently available due to facility constraints, the state or local requirement for such programs, and the facility limitations precluding the programs from being offered.***

**1. Automotive Program Limitations**

Due to space limitations cited in Priority 2, the Automotive program cannot provide a dedicated Diagnostics bay for cars. It also lacks sufficient theory space which allows for instructors to demonstrate processes with car components. This forces curriculum delivery to be done with more online resources and minimizes hands-on practice for students. Teachers have considerable challenges giving students access to sufficiently practice all parts of the program curriculum given higher than desired ratios of students working on projects.

**2. HVAC-R Program Limitations**

Due to space limitations cited in Priority 2, the HVAC-R program cannot provide adequate space for boiler project installation and repair, adequate layout space for duct work, and adequate space for underclassmen to practice on individual simulations as they learn the basics of the program. The recently added plumbing component has forced us to remove a walk in cooler in the program in order to provide space to teach plumbing competencies. While this does advance the program curriculum in one area, it creates obstacles in another area. The program should not have to make such instructional choices.

**3. Electrical Program Limitations**

The Electrical program is one of our most popular programs, for which we must turn away 10-15 students per year. For those who are admitted to the program, the lack of space limits program curriculum potential. There is no adequate space for training on solar technology, security alarms and programmable controls, which are growing parts of the industry. Students have limited space for project layout, often resulting in students having the bend and thread pipe outside the building in an adjacent courtyard.

**4. Allied Health Program Limitations**

The health care industry is one of the strongest sectors in the Commonwealth. In our region of northern Plymouth County, there are ample places for employment for our graduates, from South Shore Hospital and Jordan Hospital to various long-term care facilities.

The demand for our Allied Health program exceeds our ability to place students in the program. Our lack of space was cited in NEASC evaluations as far back as 2008. The current Allied Health shop space is 1922 sq ft which is used for up to 24 students and two teachers. In 2019 we removed an interior classroom to open up 242 square feet of space (but it created more demand on finding classroom space elsewhere in the building). In 2020 we moved Allied Health to our LMC and now we have our LMC going to the lecture hall.

The district is investigating whether it could offer curriculum expansion into Medical Assisting as well as an after-hours LPN program for adults; such an expansion of this program would increase the chances that SST could expand its outreach into a non-high school population of learners seeking advanced skills for the workforce.

**5. Carpentry Program Limitations**

Similar to our other construction programs, we rely on outside projects to help mitigate the lack of internal space for the number of students seeking carpentry training. We are unable to expand our curriculum into Cabinetmaking due to the lack of space. Individual student projects in the early grades are limited based on layout table space and access to equipment.

**6. Science Program Limitations**

1 There is limited space to enact Robotics lessons as part of our Engineering curriculum.

- | There is not enough space for demonstration tables in three lab classrooms (Rooms 202, 204 and 206A). In most classrooms there is the teacher desk and student paired desks, but no independent demonstration table.
- | In early 2020 we expanded cabinets in one classroom to alleviate some overcrowding in the science storage room.

**7. Establishment of a transitional program for at risk students**

We are unable to run a proper 'BRYT' program that supports students who are dealing with extended absences and/or social emotional issues. We tend to these students through a hodge-podge of locations that is far from optimal.

**8. Physical education/Wellness program limitations**

We meet the state requirement for physical education by offering it each school year but the fact that we only have one gymnasium and one PE teacher means that the amount of contact time is limited (12 hours per year). An auxiliary gym/weight room, as discussed in Priority 2, would open up essential wellness program we are unable to attend to with our current space constraints.

**Priority 7**

*Question 2: Please describe the measures the district has taken or is planning to take in the immediate future to mitigate the problem(s) described above.*

---

**1. Automotive Program Limitations**

We are closing our Collision Repair program so that we could take space for the Automotive program. This is not an ideal solution because the current program is in now in two non-adjacent footprints. Further renovation and relocation of existing space would give us an optimal environment for students and staff.

**2. HVAC Program limitations**

We have removed non-instructional material and placed it in an adjacent courtyard. This creates a burden on teachers to have access to this material and it at times can be a supervisory challenge. This is not an ideal solution.

**3. Electrical Program limitations**

Students are expected to undertake projects outside in an adjacent courtyard, which creates limitations due to weather and supervision. We are looking at removing non-instructional space to mitigate this issue, but it will result in storage needed elsewhere on campus.

**4. Allied Health Program limitations**

We removed an internal classroom to allow for more shop space but we are unable to address the Medical Assisting component under current conditions. In 2020 we moved Allied Health to our LMC and now we have our LMC going to the lecture hall.

**5. Carpentry Program Limitations**

Similar to our other construction programs, we rely on outside projects to help mitigate the lack of internal space for the number of students seeking carpentry training. In 2013 a canopy was build next to the program to allow for some weather protected work to be done outside.

**6. Science Program limitations**

We renovated our library to make it more of a maker space for science classrooms to reserve as needed. However, the location is at the other end of the building and cannot accommodate more than one class at a time. This is not an ideal solution.

**7. Establishment of program for at risk students**

We are unable to run a proper 'BRYT' program that supports students who are dealing with extended absences and/or social emotional issues. We tend to these students through a hodge-podge of locations that is far from optimal.

**8. Physical Education program**

We have been unable to mitigate this issue.

**Priority 7**

***Question 3: Please provide a detailed explanation of the impact of the problem described in this priority on your district's educational program. Please include specific examples of how the problem prevents the district from delivering the educational program it is required to deliver and how students and/or teachers are directly affected by the problem identified.***

**1. Automotive Program Limitations that affect students and teachers:**

- a. The most noticeable limitation is that students are often in groups of 4 working on a car, which limits their ability to practice the skills being taught in the shop.
- b. Having to constantly pack away diagnostics equipment because the program lacks a dedicated diagnostics bay.
- c. The lack of a dedicated tire mounting/balancing and brake machining repair area.
- d. The lack of lab space for Automotive Theory lessons to incorporate STEM activities.
- e. The lack of a dedicated engine and transmission repair area to be used for senior projects and tear downs.
- f. Severely lacking in storage space. Important equipment and practice lab mock ups take up valuable shop square footage. Increased storage would allow us to store more mock ups to increase our use of labs. This would also help with the current overcrowding of equipment in our related classroom.

**2. HVAC-R, Carpentry, Electrical and Allied Health Program Limitations:**

We cannot meet the student demand for enrollment in these programs. Carpentry, HVAC-R and Electrical represent industries and career paths that show strong regional employer demand. In these programs in particular there is considerable instructional space devoted to equipment, which limits the space for students and teachers. Students in these programs have very limited table space for projects.

Each program requires considerable equipment inside the shop, as well as considerable storage that has been relegated to space outside the shop in an adjacent courtyard. Program advisors have been consistently advocating for more space for the program.

We added a third teacher to the HVAC-R program to expand the program's outreach into plumbing, and we are adding an aide to the Electrical program.

We are relegated to storing materials in outside storage containers and rack storage adjacent to the shop. Students often work outside the shop in an adjacent courtyard when weather permits.

Our Allied Health program does not have enough space to accommodate two grades of students concurrently to both work on theory and hands-on activities. We are limited by the space to take more students into the program. Were we to add more practice stations (beds, mannequins, wheelchairs), it would further limit the space for students. We cannot offer Medical Assisting as a course offering because of the lack of space in the program.

**3. Science Department Space:**

There are several instructional limitations in this arrangement.

- 1 There is inadequate storage space for chemicals and space for laboratory preparations. Science teachers are constantly having to interrupt other science classes because of set up and clean up of labs, usually the last 5 to 10 minutes of class. This

is due in part to the small prep/storage area for the science department.

- | There is not enough space for demonstration tables in three lab classrooms (Rooms 202, 204 and 206A). In most classrooms there is the teacher desk and student paired desks, but no independent demonstration table.
- | There is limited student bench space in the classrooms, which is exacerbated when students are required to move around the lab areas.
- | There is limited space to enact Robotics lessons as part of our Engineering curriculum.

#### **4. Inadequate Physical Education/Health/Wellness Education Instructional Space:**

There is no dedicated classroom space for health and wellness courses. Dedicated classroom space would allow a PE teacher to have the full range of instructional technology resources offered to other disciplines.

Any lesson planning involving weight training is inaccessible given the small size of the weight room. Physical education activities are limited to what can be done in the gymnasium with larger class sizes. As mentioned earlier in the application, we have one gym teacher and one gym with no auxiliary space. Student PE contact time is 12 hours per year (40 minutes biweekly). This is not sufficient for PE or wellness curriculum implementation.

#### **5. Lack of Library/Lecture Hall Space:**

- | We have no reliable common seating space to gather for school events.
- | The Library Media Center becomes a place to anchor SEL activities and support at risk students; this unreliable space now jeopardizes our ability to serve these needy students.

## REQUIRED FORM OF VOTE TO SUBMIT AN SOI

### REQUIRED VOTES

If the SOI is being submitted by a City or Town, a vote in the following form is required from both the City Council/Board of Aldermen **OR** the Board of Selectmen/equivalent governing body **AND** the School Committee.

If the SOI is being submitted by a regional school district, a vote in the following form is required from the Regional School Committee only. **FORM OF VOTE** Please use the text below to prepare your City's, Town's or District's required vote(s).

### FORM OF VOTE

Please use the text below to prepare your City's, Town's or District's required vote(s).

Resolved: Having convened in an open meeting on \_\_\_\_\_, prior to the closing date, the \_\_\_\_\_ *[City Council/Board of Aldermen, Board of Selectmen/Equivalent Governing Body/School Committee]* of \_\_\_\_\_ *[City/Town]*, in accordance with its charter, by-laws, and ordinances, has voted to authorize the Superintendent to submit to the Massachusetts School Building Authority the Statement of Interest dated \_\_\_\_\_ for the \_\_\_\_\_ *[Name of School]* located at \_\_\_\_\_ *[Address]* which describes and explains the following deficiencies and the priority category(s) for which an application may be submitted to the Massachusetts School Building Authority in the future

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_; *[Insert a description of the priority(s) checked off on the Statement of Interest Form and a brief description of the deficiency described therein for each priority];* and hereby further specifically acknowledges that by submitting this Statement of Interest Form, the Massachusetts School Building Authority in no way guarantees the acceptance or the approval of an application, the awarding of a grant or any other funding commitment from the Massachusetts School Building Authority, or commits the City/Town/Regional School District to filing an application for funding with the Massachusetts School Building Authority.



**CERTIFICATIONS**

The undersigned hereby certifies that, to the best of his/her knowledge, information and belief, the statements and information contained in this statement of Interest and attached hereto are true and accurate and that this Statement of Interest has been prepared under the direction of the district school committee and the undersigned is duly authorized to submit this Statement of Interest to the Massachusetts School Building Authority. The undersigned also hereby acknowledges and agrees to provide the Massachusetts School Building Authority, upon request by the Authority, any additional information relating to this Statement of Interest that may be required by the Authority.

**Chief Executive Officer \***

**School Committee Chair**

**Superintendent of Schools**

Thomas Hickey

Robert Heywood

Thomas Hickey

Superintendent of Schools



(signature)

(signature)

(signature)

Date

Date

Date

5/28/2021 11:06:44 AM

6/2/2021 8:47:02 AM

5/28/2021 11:06:02 AM

\* Local Chief Executive Officer: In a city or town with a manager form of government, the manager of the municipality; in other cities, the mayor; and in other towns, the board of selectmen unless, in a city or town, some other municipal office is designated to the chief executive office under the provisions of a local charter. Please note, in districts where the Superintendent is also the Local Chief Executive Officer, it is required for the same person to sign the Statement of Interest Certifications twice.





# Massachusetts School Building Authority

**Deborah B. Goldberg**  
*Chairman, State Treasurer*

**James A. MacDonald**  
*Chief Executive Officer*

**John K. McCarthy**  
*Executive Director / Deputy CEO*

October 26, 2022

Dr. Thomas J. Hickey, Superintendent-Director  
South Shore Regional Vocational Technical School District  
476 Webster Street  
Hanover, MA 02339

Re: South Shore Regional Vocational Technical School District, South Shore Technical High School

Dear Dr. Hickey:

I am pleased to report that the Board of the Massachusetts School Building Authority (the “MSBA”) has voted to invite the South Shore Regional Vocational Technical School District (the “District”) to partner with the MSBA in conducting a Feasibility Study for the South Shore Technical High School. The Board’s vote follows the District’s timely completion of all of the requirements of the MSBA’s Eligibility Period.

I do want to emphasize that this invitation to partner on a Feasibility Study is *not* approval of a project but is strictly an invitation to the District to work with the MSBA to explore potential solutions to the problems that have been identified. Moving forward in the MSBA’s process requires collaboration with the MSBA, and communities that “get ahead” of the MSBA without MSBA approval will not be eligible for grant funding. To qualify for any funding from the MSBA, local communities must follow the MSBA’s statute, regulations, and policies which require MSBA collaboration and approval at each step of the process.

During the Feasibility Study phase, the District and the MSBA will partner pursuant to the terms of the Feasibility Study Agreement to find the most fiscally responsible and educationally appropriate solution to the problems identified at the South Shore Technical High School. The Feasibility Study, which will be conducted pursuant to the MSBA’s regulations and policies, requires the District to work with the MSBA on the procurement of an Owner’s Project Manager and Designer, which will help bring the District’s Feasibility Study to fruition.

We will be contacting you soon to discuss these next steps in more detail. In the meantime, however, I wanted to share with you the Board’s decision and provide a brief overview of what this means for the South Shore Regional Vocational Technical School District.

I look forward to continuing to work with you as part of the MSBA’s grant program. As always, feel free to contact me or my staff at (617) 720-4466 should you have any questions.

Page 2  
October 26, 2022  
South Shore Technical High School Feasibility Study Board Action Letter

Sincerely,



John K. McCarthy  
Executive Director

Cc: Legislative Delegation  
Robert L. Mahoney, Chair, South Shore Regional Vocational Technical School  
Committee  
File: 10.2 Letters (Region 6)



**MASSACHUSETTS SCHOOL BUILDING AUTHORITY  
SOUTH SHORE REGIONAL VOCATIONAL TECHNICAL SCHOOL DISTRICT  
SOUTH SHORE TECHNICAL HIGH SCHOOL  
STUDY ENROLLMENT CERTIFICATION**

As a result of a collaborative analysis with the Massachusetts School Building Authority (the "MSBA") of enrollment projections and space capacity needs for the South Shore Technical High School (the "Proposed Project"), the South Shore Regional Vocational Technical School District hereby acknowledges and agrees that the design of alternatives, which may be evaluated as a part of the feasibility study for the South Shore Technical High School, shall be based in accordance with the following:

Enrollment for Grades 9-12 as currently configured:	Enrollment for Grades 9-12 with Proposed Expansion of Chapter 74 Programming based on current District membership:	Enrollment for Grades 9-12 based on current district membership:	Enrollment for Grades 9-12 with Proposed Expansion of Chapter 74 Programming based on expanded District membership to include Marshfield:	Enrollment for Grades 9-12 based on expanded District membership to include Marshfield:
645 students	805 students	Between 645-805 students	975 students	Between 645-975 students

The South Shore Regional Vocational Technical School District further acknowledges and agrees that pursuant to 963 CMR 2.00 *et seq.*, the MSBA shall determine the square feet per student space allowance and total square footage according to the enrollments noted above. The South Shore Regional Vocational Technical School District acknowledges and agrees that it has no right or entitlement to any particular design enrollment, square feet per student space allowance, or total square footage and that it has no right or entitlement to a design enrollment any greater than any of the enrollments noted above, and further acknowledges and agrees that it shall not bring any claim or action, legal or equitable, against the MSBA, or any of its officers or employees, for the purpose of obtaining an increase in the design enrollment for the Proposed Project that it has acknowledged and agreed to herein. The South Shore Regional Vocational Technical School District further acknowledges and agrees that, among other things, the design enrollment, square feet per student space allowance, and total square footage of the Proposed Project shall be subject to the approval of the MSBA's Board and that the final approval of a Proposed Project shall be within the sole discretion of the MSBA's Board.

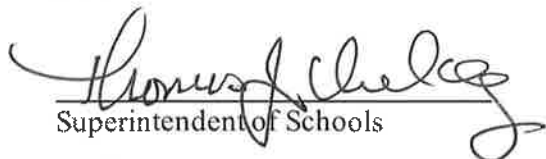
The undersigned, for themselves and the South Shore Regional Vocational Technical School District, hereby certify that they have read and understand the contents of this study enrollment certification and that each of the above statements is true, complete and accurate. The undersigned hereby certify that they have been duly authorized by the appropriate governmental body to execute this Certification on behalf of the South Shore Regional Vocational Technical School District and to bind the South Shore Regional Vocational Technical School District to its terms.

  
Chief Executive Officer

9.15.22  
Date

  
Duly Authorized Representative of School Committee

9/15/22  
Date

  
Superintendent of Schools

9.15.22  
Date



**Agreement Among the Towns of  
Abington, Cohasset, Hanover, Hanson, Marshfield Norwell,  
Rockland, Scituate and Whitman, Massachusetts with Respect  
to the Establishment of a Vocational Regional High School  
District**

This Regional Agreement is entered into pursuant to Chapter 71 of Massachusetts General Laws (MGL) , as amended, by and among the Towns of Abington, Cohasset, Hanover, Hanson, Marshfield, Norwell, Rockland, Scituate, and Whitman (hereinafter sometimes known as “member towns”). The District shall be called the South Shore Regional Vocational School District (hereinafter sometimes known as the “District”).

This revised agreement replaces the previous agreement approved in 2018 and all other agreements or amendments.

In consideration of the mutual promises herein contained, it is hereby agreed as follows:

**SECTION I – THE REGIONAL VOCATIONAL DISTRICT SCHOOL COMMITTEE**

**(A) Composition**

The District School Committee (hereinafter sometimes known as the “Committee”) shall consist of one member from each member town each with one vote. Each member shall be appointed by the respective Select Board in each member town.

**(B) Appointed Members**

Not later than June 15 in each year in which the term of a member of the Committee expires, the Select Board of the member town concerned shall appoint one member to serve for a term of three years. The term of each such appointed member shall commence on July 1 of the year in which he or she is appointed.

**(C) Vacancies**

If a vacancy occurs among the members of the Committee, the Select Board of the member town concerned shall appoint a member to serve for the balance of the unexpired term.

**(D) Organization**

At the first scheduled meeting after July 1, the Committee shall organize and choose by ballot a chair and a vice chair from among its own membership. At the same meeting, or at any other meeting, the Committee shall appoint a treasurer and secretary, who may be the same person but who need not be members of the Committee, choose such other officers as it deems advisable, determine the terms of office of its officers (except the chair and vice-chair who shall be elected annually) and prescribe the powers and duties of any of its officers, fix the time and place for its regular meetings, and provide for the calling of special meetings.

**(E) Powers and Duties**

The Committee shall have all the powers and duties conferred and imposed upon it by this Agreement and such other additional powers and duties as are specified in Sections 16 to

16I, inclusive, of MGL Chapter 71 and any amendments thereof or additions thereto now or hereafter enacted, or as may be specified in any other applicable general or special law. In the event that provisions conflict with any MGL, the MGL shall prevail.

**(F) Quorum**

Unless otherwise specified by law, the quorum for the transaction of business shall be a majority of the Committee, but a number less than the majority may adjourn.

**SECTION II – LOCATION OF REGIONAL DISTRICT SCHOOL**

The District School (South Shore Regional Vocational Technical High School) shall be located in the Town of Hanover, or any other member town, provided, however, that the Committee may establish and locate satellite facilities in any member town.

**SECTION III – TYPE OF REGIONAL DISTRICT SCHOOL**

The District School shall be a Vocational High School consisting of grades nine through twelve (9 – 12), inclusive. The Committee is hereby authorized to establish and maintain such kinds of education as may be provided by towns under provisions of MGL Chapter 74 and acts amendatory thereof, in addition thereto or dependent thereon. The Committee may also provide self funding programs beyond the secondary level, either alone or in cooperation with other institutions in accordance with the provisions of MGL Chapter 74, Section 37A, as amended.

**SECTION IV – BUDGET**

**(A) Budget**

The Committee shall annually determine the District’s budget consistent with the timelines, terms and requirements of MGL Chapter 71, Section 16B, as amended, and other pertinent provisions of law and consistent with regulations promulgated by the Department of Elementary and Secondary Education (hereinafter sometimes known as “DESE”).

**(B) Public Budget Hearing and Budget Approval**

After conducting a public hearing consistent with MGL Chapter 71, Section 38N, as amended, the Committee by a minimum two-thirds (2/3) vote of all its members, shall annually approve an operating budget for the next fiscal year to maintain and operate the District during the next fiscal year. After deducting the amount of aid the District is to receive, the balance shall be apportioned among the several member towns in accordance with Section V.

The budget will be itemized in such detail as the Committee may deem advisable. Such budget shall be adopted not later than forty-five (45) days prior to the earliest date on which the business session of the annual town meeting of any member town is to be held, but in no event later than March 31, provided that said budget need not be adopted earlier than February 1. The amounts so apportioned for each member town shall be certified by the District treasurer to the treasurers of the member towns within thirty (30) days from the date on which the annual operating budget is adopted by the Committee. The Annual Budget, as adopted by a minimum two-thirds (2/3) vote of the Committee’s membership, shall then require the approval of two-thirds (2/3) of the local appropriating authorities of

the member towns. If the Annual Budget is not so approved, the Annual Budget shall be established in accordance with the procedures in MGL Chapter 71, Section 16B.

**SECTION V – APPORTIONMENT AND PAYMENT OF COSTS INCURRED BY THE DISTRICT**

**(A) Classification of Costs**

For the purpose of apportioning assessments by the District to the member towns, costs shall be divided into **four (4)** categories: operating costs, capital costs, debt, and transportation costs. The Committee shall determine the amount necessary to meet the annual operating, capital, debt, and transportation costs and shall allocate such amount among the member towns.

**(B) Operating Costs**

(1) Operating costs shall include all costs not included in capital, debt, and transportation costs as defined in Sections V (C), (D), and (E), but shall include interest on temporary notes issued by the District in anticipation of revenue.

(2) Apportionment of Operating Costs

a. The total operating costs assessed to each member town will consist of:

1. its Minimum Local Contribution,
2. its share of any additional Net School Spending (NSS) costs as defined in MGL Chapter 70, as amended, referred to in this section as its “Above Minimum Contribution”, and
3. its share of any non-NSS costs.

b. The aggregate Above Minimum Contribution is arrived at by subtracting from the Net School Spending Operating Budget the following: MGL Chapter 70 aid, the Minimum Required Combined Local Contributions of all member towns, and other general revenue sources to the District.

This formula is illustrated below:

*Net School Spending Operating Costs (which excludes capital, debt and transportation)*

- Chapter 70 aid (as calculated by DESE)
- Minimum Required Combined Local Contributions of all member towns (as calculated by DESE)
- Other general revenue sources to the District
- = Total Above Minimum Contribution for all member towns

c. Each member town’s proportionate share of the aggregate Above Minimum Contribution and non-NSS operating costs shall be determined based on the number of pupils in grades nine through twelve (9 – 12), inclusive, residing in each member town and receiving education in the South Shore Regional Vocational School District at such town's expense, as reported to the Department

of Elementary and Secondary Education (DESE) in the District's previous October 1st Student Information Management System (SIMS) enrollment submission.

**(C) Capital Costs**

(1) Capital costs shall include all expenses described in DESE's Chart of Accounts in the 7000-function code.

(2) Apportionment of Capital Costs

Capital costs will be apportioned for the ensuing fiscal year as follows:

Each member town's share of the capital costs shall be determined by computing the ratio which the sum of its October 1<sup>st</sup> SIMS enrollments of the three fiscal years immediately preceding the year in which the Committee votes to include capital cost in the budget bears to the sum of the October 1<sup>st</sup> SIMS enrollments of all the member towns of the same three fiscal years. For the purpose of this clause, pupil enrollments shall be defined as the number of pupils in grades nine through twelve (9 – 12), inclusive, residing in each member town and receiving education in the District at such town's expense.

**(D) Debt**

(1) Debt shall include the payment of principal of and interest on bonds, notes or other obligations of the District to finance such debt.

(2) Each member town's share of the debt incurred, including the payment of principal of and interest on bonds, notes or other obligations of the District to finance such debt, shall be determined by computing the ratio which the sum of October 1<sup>st</sup> SIMS enrollments in the District on October 1 of the three fiscal years immediately preceding the year in which the member towns vote to authorize the incurring of the debt bears to the sum of the October 1<sup>st</sup> SIMS enrollments of all the member towns in the District on October 1 of the same three fiscal years, and the ratio shall not be changed during the period in which such bonds, notes or other obligations are outstanding, except as provided in Section VIII.

For the purpose of this clause, pupil enrollments shall be defined as the number of pupils in grades nine through twelve (9 – 12), inclusive, residing in each member town and receiving education in the District at such town's expense.

**(3) Admission of the Town of Marshfield into the District**

a. Marshfield will contribute a **17.95 %** share of **\$2,184,851**, which represents the anticipated balance in the South Shore Regional Vocational School District stabilization fund as of July 1, 2022. The total amount of Marshfield's share will be **\$392,181**. Marshfield will make annual payments over **10 (ten) years**, starting no later than June 30th of the first fiscal year of their admission to the district. The annual payment amount will be **\$39,218.10**. Accelerated payments will be permitted at the discretion of the town of Marshfield.

b. **Debt:** Notwithstanding any existing regional agreement language on debt, the following would apply to Marshfield's admission into the district:

1. In its first fiscal year of membership Marshfield will not be assessed any debt service.
2. If there is new or existing authorized debt to be paid during Marshfield's second, third, fourth and fifth fiscal years of membership its debt share will adjust with each fiscal year based on its school enrollment as of the most recent October 1st report, divided by the total in-district school enrollment that year.
3. If there is new or existing authorized debt to be paid during Marshfield's sixth fiscal year, its debt share will be fixed for the duration of the debt based on its October 1, 2028 enrollment report, divided by the total in-district school enrollment that year.
4. If there is any new authorized debt to be paid during Marshfield's seventh fiscal year of membership that was not fixed previously in #3 above, its debt share will be fixed based on its school enrollment as of the most recent October 1st report, divided by the total in-district school enrollment that year.
5. If there is any new authorized debt to be paid during Marshfield's eighth fiscal year of membership and beyond that was not fixed previously in #4 above, its debt share shall follow the regional agreement language in Section V.D. which is the same "three fiscal year look back" process for all district towns.

**(E) Transportation**

School transportation shall be provided by the District and each member town's share shall be apportioned in the same manner as operating costs. The aggregate transportation cost shall be decreased by anticipated regional transportation reimbursement prior to apportioning the costs to the member towns.. Each member town's proportionate share of pupil transportation shall be determined based on the number of pupils in grades nine through twelve (9 – 12), inclusive, residing in each member town and receiving education in the District at such town's expense, as reported to DESE in the District's previous October 1st SIMS enrollment submission.

**(F) Times of Payment of Apportioned Costs**

(1) The Total Assessment to a member town will include its share of the Operating, Transportation, Capital and Debt costs.

(2) Each member town shall pay to the District in each year its proportionate share, certified as provided in subsection V (B), (C), (D) and (E) of the operating, capital, debt, and transportation costs. The annual share of each member town shall be paid in equal installments not later than the first days of August, December, April and June of each fiscal year.

## **SECTION VI – INCURRING OF DEBT**

Not later than seven days after the date on which the Committee authorizes the incurring of debt, other than temporary debt in anticipation of revenue to be received from member towns, written notice of the date of said authorization, the sum authorized, and the general purpose or purposes for authorizing such debt shall be given to the Select Board in each member town.

The Committee may vote to incur debt consistent with the terms and conditions of MGL Chapter 71, Section 16 (d) paragraph 1, Chapter 71, Section 16 (d) paragraph 2, or Chapter 71, Section 16 (n), as amended.

At the time of taking action to incur debt, and except for the incurring of temporary debt in anticipation of revenue, the Committee, by a simple majority vote, shall use Chapter 71, Section 16 (d) paragraph 1 as amended. The Committee, by a two-thirds (2/3) vote of all its members may choose instead to use Chapter 71, Section 16 (n) as amended, or Chapter 71, Section 16 (d) paragraph 2 as amended.

## **SECTION VII – AMENDMENTS**

### **(A) Limitations**

This Agreement may be amended from time to time in the manner hereinafter provided, but no such amendment shall be made which shall substantially impair the rights of the holders of any bonds, notes or other obligations of the District then outstanding, or the rights of the District to procure the means for payment thereof, provided that nothing in this section shall prevent the admission of a new town or towns to the District and the reapportionment accordingly of debt of the District represented by bonds or notes of the District then outstanding and of interest thereon.

### **(B) Procedure**

Any proposal for amendment, except a proposal for amendment providing for the withdrawal of a member town (which shall be acted upon as provided in Section IX), may be initiated by a minimum vote of two-thirds (2/3) members of the Committee or by a separate petition from at least two-thirds (2/3) of the member towns. Such petitions shall be signed by at least one hundred (100) registered voters from each of these two-thirds (2/3) member towns. In the case of a proposal for amendment by petition, the said petition shall also contain, at the end thereof, a certification by the clerk of each member town voting as to the number of signatures in the petition which appear to be the names of registered voters (according to the most recent voting list) from that town; and the said petition shall be presented to the secretary of the Committee. In either case, the secretary of the Committee shall mail or deliver a notice in writing to the Select Board of each of the member towns that a proposal to amend this Agreement has been made and shall enclose a copy of such amendment (without the signatures in the case of a proposal by petition). The Select Board of each member town shall include in the warrant for the next annual town meeting, or a special town meeting called for the purpose, an article stating the amendment. Such amendment shall take effect upon its acceptance by a minimum of two-thirds (2/3) of the member towns, acceptance by each member town to be by a majority vote at a town meeting as aforesaid. All amendments must be approved by the Commissioner of Elementary and Secondary Education (hereinafter sometimes referred to



as the “Commissioner”). An amendment involving a change in the way that the operating and/or capital costs are assessed may not take effect until the July 1 after a minimum of two-thirds (2/3) of the member towns and the Commissioner have approved acceptance by the previous December 31.

## **SECTION VIII – ADMISSION PROCESS FOR NEW MEMBER TOWNS TO THE DISTRICT**

- (A) By an amendment of this Agreement adopted under and in accordance with Section VII above, any other town may be admitted to the District upon adoption as therein provided of such amendment and upon acceptance at a special or annual town meeting by a majority vote by the town seeking admission of the Agreement as so amended, acceptance by a minimum of two-thirds (2/3) of the member towns, each by majority vote, and also upon compliance with such provisions of law and regulations [for example, Code of Massachusetts Regulations; that is, 603 CMR 41.05 (6)] as may be applicable and such terms as may be set forth in such an amendment.
- (B) The Committee, prior to the admittance of a new member town, will have the option establishing the amount of any additional buy-in costs to that new member town to be included in the District. These additional costs will be clearly articulated to the Regional Planning Committee of the potential new member town and will be made clear to voters prior to that new member town’s vote on admission to the District.
- (C) A new member town may be admitted to the District as of July 1 of any fiscal year, provided that all requisite approvals for such admission, including the Commissioner’s approval, shall be obtained no later than the preceding December 31.

## **SECTION IX – WITHDRAWAL PROCESS OF MEMBER TOWNS FROM THE DISTRICT**

- (A) **Vote Expressing Desire to Withdraw**  
Any member town seeking to withdraw from the District shall, by majority vote at an annual or special town meeting, request the Committee to formulate an amendment to this Agreement setting forth the terms by which such town may withdraw from the District. No withdrawal will take effect on other than July 1 of a given year. The vote stated in the preceding sentence, as well as the notification to the District consistent with paragraph B below, must all occur no less than two (2) years prior to the desired date of withdrawal.
- (B) **Notice**  
The clerk of the town seeking to withdraw shall, within seven (7) days of the vote, notify the Committee chair as well as the District’s superintendent in writing that such town has voted to request the Committee to formulate an amendment to the Agreement (enclosing a certified copy of such vote).

Thereupon, the Committee shall formulate an amendment to the Agreement setting forth such terms of withdrawal as it deems advisable, subject to the limitation contained in Section VII(A). The Committee shall establish a subcommittee to formulate an amendment

and invite the Select Board from the requesting member town to designate representatives to said subcommittee.

The secretary of the Committee shall mail or deliver a notice in writing to the Select Board of each member town that the Committee has formulated an amendment to the Agreement reflecting the withdrawal of a member town (enclosing a copy of such amendment). The Select Board of each member town shall include in the warrant for the next annual or a special town meeting called for the purpose an article stating the amendment.

**(C) Obligations of Withdrawing Member Towns**

In addition to other terms and requirements which the Committee shall include in the amendment, the member town seeking to withdraw will be responsible for the following: (1) payment of all operating costs for which it is liable as a member of the District; (2) continuing payments beyond the time of withdrawal to the District for the member town's share of the indebtedness of the District which is outstanding at the time of such withdrawal, and for interest thereon, to the same extent and in the same manner as though the town had not withdrawn from the District; (3) other liabilities incurred during all times that the town was a member of the District (e.g., OPEB – Other Post-Employment Benefits); and (4) for the costs, including legal fees, that accrue to the District as a result of the withdrawal process.

**(D) Approval of Withdrawal**

A request to withdraw shall become effective only if the amendment to the Agreement is approved by a majority vote of the membership of the Committee, is approved by majority vote at an annual or special town meeting in a minimum of two-thirds (2/3) of the member towns, is approved by the Commissioner, and the withdrawal can become effective no less than one full year after the completion of these requirements. The withdrawal will be effective as of July 1 of any fiscal year, provided that all requisite approvals for such withdrawal, including the Commissioner's approval, shall be obtained no later than the preceding December 31.

**(E) Cessation of Terms of Office of Members of Withdrawing Town**

Upon the effective date of withdrawal, the terms of office of all members serving on the Committee from the withdrawing town shall terminate and the total membership of the Committee shall be decreased accordingly.

**SECTION X – TUITION STUDENTS**

The Committee may accept for enrollment in the District pupils from towns other than the member towns on a tuition basis. Income received by the District from tuition pupils will be treated by the Committee according to MGL Chapter 71, Section 16D1/2.

**SECTION XI – ANNUAL REPORT**

The Committee shall submit in January an annual report to each of the member towns containing information to publish in the annual town reports that highlights District events and activities.

IN WITNESS WHEREOF, this Agreement has been executed as of [ ].

Regional Vocational School Committee Chair

Robert L. Mahoney

August 9, 2023

*R. L. Mahoney*  
DocuSigned by:

Town of Abington  
Leanne Adams

9/18/2023

*Leanne Adams*  
3782B4526D77497...

Town of Cohasset  
Elizabeth Legge

9/15/2023

DocuSigned by:  
*Elizabeth Legge*  
E0F861A8B1B9429...

Town of Hanover  
Cathy Harder-Bernier

9/18/2023

DocuSigned by:  
*Catherine Harder-Bernier*  
F3C46A270A2F437...

Town of Hanson  
Elizabeth Sloan

9/15/2023

DocuSigned by:  
*Elizabeth Sloan*  
90F48320B4D6417...

Town of Marshfield  
Narice Casper

9/17/2023

DocuSigned by:  
*Narice Casper*  
2231BC7E574442B...

Town of Norwell  
Patricia Anderson

9/15/2023

DocuSigned by:  
*Patricia Anderson*  
181D29D14EB2465...

Town of Rockland  
Liza Landy

9/15/2023

DocuSigned by:  
*Liza Landy*  
97851E3910B2407...

Town of Scituate  
Kathleen Gardner

9/15/2023

DocuSigned by:  
*Kathleen Gardner*  
F70C2891CE9D4AB...

Town of Whitman  
Dawn Varley

9/18/2023

DocuSigned by:  
*Dawn M. Varley*  
6763E39A8D6B42D...

Approved by Department of Elementary and Secondary Education Commissioner  
Jeffrey C. Riley

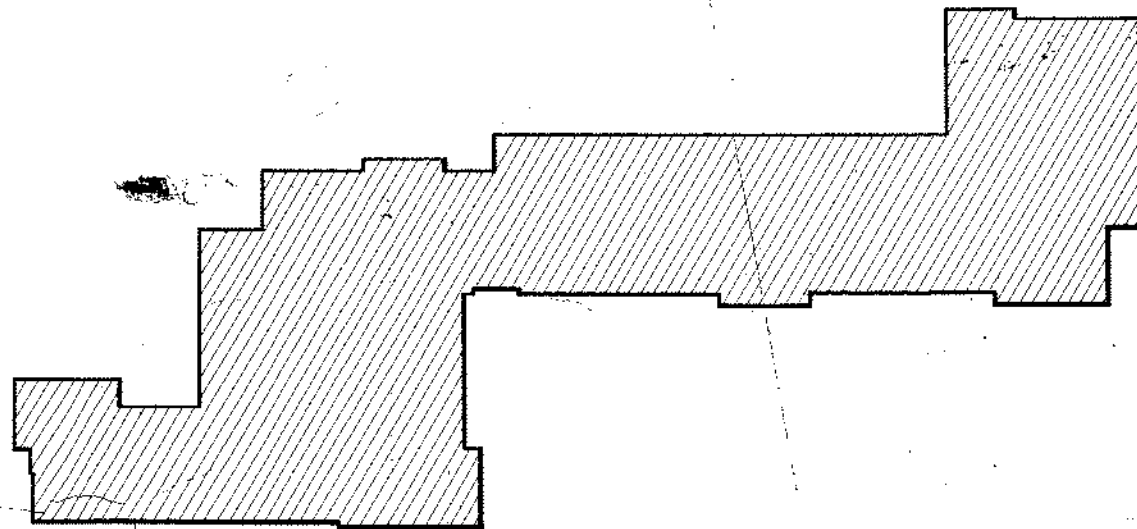
Signature  
*Jeffrey C. Riley*

Date  
7/6/2023



# SOUTH SHORE VOCATIONAL HIGH SCHOOL

ROUTE 123 NORTH HANOVER MASSACHUSETTS



## INDEX

### ARCHITECTURAL

- 1 SITE PLAN
- 1-A PROFILES & DETAILS
- 2 KEY PLAN & FINISH SCHEDULE
- 3 ROOF PLAN & DETAILS
- 4 FLOOR PLAN UNIT 1
- 5 FLOOR PLAN UNIT 2
- 6 FLOOR PLAN UNIT 3
- 7 ELEVATIONS & SECTIONS
- 8 ELEVATIONS & SECTIONS
- 9 CORRIDOR ELEVATIONS
- 10 DETAIL SECTIONS
- 11 DETAIL SECTIONS
- 12 CANOPY & ENTRANCE DETAILS
- 13 DOOR & FRAME SCHEDULE
- 14 WINDOW SCHEDULE & MULLIONS
- 15 LOCKER, TOILET & EXPANSION JOINT DETAILS
- 16 INTERIOR ELEVATIONS & KITCHEN PLAN
- 17 WOODWORK DETAILS

### STRUCTURAL

TROT ENGINEERING, INC.  
NORWOOD, MASSACHUSETTS

- S-1 FOUNDATION & FLOOR SLAB UNIT 1
- S-2 ROOF FRAMING PLAN UNIT 1
- S-3 FOUNDATION & FLOOR SLAB UNIT 2
- S-4 ROOF FRAMING PLAN UNIT 2
- S-5 FOUNDATION & FLOOR SLAB UNIT 3
- S-6 ROOF FRAMING PLAN UNIT 3

### HEATING & VENTILATING

ADOLPH EHRENZELLER  
BOSTON, MASSACHUSETTS

- H-1 HEATING & VENTILATING PLAN UNIT 1
- H-2 HEATING & VENTILATING PLAN UNIT 2
- H-3 HEATING & VENTILATING PLAN UNIT 3

### PLUMBING

TROT ENGINEERING, INC.  
NORWOOD, MASSACHUSETTS

- SD-1 SEWERAGE DISPOSAL
- P-1 PLUMBING FOUNDATION PLAN UNIT 1
- P-2 PLUMBING FLOOR PLAN UNIT 1
- P-3 PLUMBING FOUNDATION PLAN UNIT 2
- P-4 PLUMBING FLOOR PLAN UNIT 2
- P-5 PLUMBING FOUNDATION PLAN & PARTIAL PLOT PLAN UNIT 3
- P-6 PLUMBING FLOOR PLAN UNIT 3
- P-7 PLUMBING DETAILS

### ELECTRICAL

EDWIN L. STEINBRENNER  
DEDHAM, MASSACHUSETTS

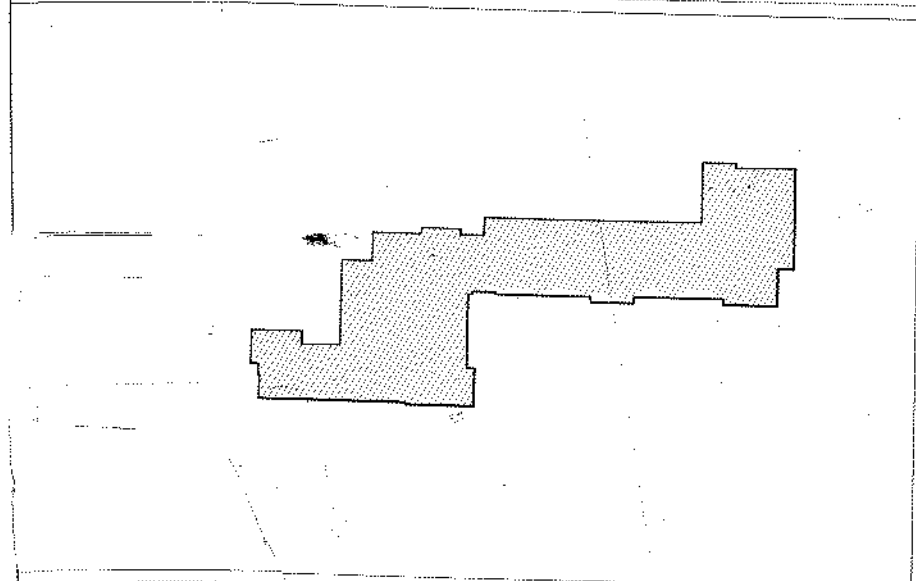
- E-1 ELECTRICAL PLOT PLAN
- E-2 ELECTRICAL FLOOR PLAN UNIT 1
- E-3 ELECTRICAL FLOOR PLAN UNIT 2
- E-4 ELECTRICAL FLOOR PLAN UNIT 3
- E-5 ELECTRICAL ONE LINE DIAGRAM

KORSLUND, LE NORMAND & QUANN INC., ARCHITECTS

NORWOOD, MASSACHUSETTS

# SOUTH SHORE VOCATIONAL HIGH SCHOOL

ROUTE 123 NORTH HANOVER MASSACHUSETTS



## INDEX

### ARCHITECTURAL

- 1 SITE PLAN
- 1-A PROWLER & DETAILS
- 2 KEY PLAN & FINISH SCHEDULE
- 3 ROOF PLAN & DETAILS
- 4 FLOOR PLAN UNIT 1
- 5 FLOOR PLAN UNIT 2
- 6 FLOOR PLAN UNIT 3
- 7 ELEVATIONS & SECTIONS
- 8 ELEVATIONS & SECTIONS
- 9 CORRIDOR ELEVATIONS
- 10 DETAIL SECTIONS
- 11 DETAIL SECTIONS
- 12 CANTY & ENTRANCE DETAILS
- 13 DOOR & FRAME SCHEDULE
- 14 WINDOW SCHEDULE & MULLIONS
- 15 LOCKER, TRAY & EXPANSION JUNT DETAILS
- 16 INTERIOR ELEVATIONS & KITCHEN PLAN
- 17 MOUNTING DETAILS

### STRUCTURAL

- 107 ENGINEERING, INC.  
NORWOOD, MASSACHUSETTS
- S-1 FOUNDATION & FLOOR SLAB UNIT 1
- S-2 ROOF FRAMING PLAN UNIT 1
- S-3 FOUNDATION & FLOOR SLAB UNIT 2
- S-4 ROOF FRAMING PLAN UNIT 2
- S-5 FOUNDATION & FLOOR SLAB UNIT 3
- S-6 ROOF FRAMING PLAN UNIT 3

### HEATING & VENTILATING

- RODIN FIRMELLE  
BOSTON, MASSACHUSETTS
- H-1 HEATING & VENTILATING PLAN UNIT 1
- H-2 HEATING & VENTILATING PLAN UNIT 2
- H-3 HEATING & VENTILATING PLAN UNIT 3

### PLUMBING

- 107 ENGINEERING, INC.  
NORWOOD, MASSACHUSETTS
- PL-1 PLUMBING SCHEDULE
- P-1 PLUMBING FOUNDATION PLAN UNIT 1
- P-2 PLUMBING FLOOR PLAN UNIT 1
- P-3 PLUMBING FOUNDATION PLAN UNIT 2
- P-4 PLUMBING FLOOR PLAN UNIT 2
- P-5 PLUMBING FOUNDATION PLAN & PARTIAL FLOOR PLAN UNIT 3
- P-6 PLUMBING FLOOR PLAN UNIT 3
- P-7 PLUMBING DETAILS

### ELECTRICAL

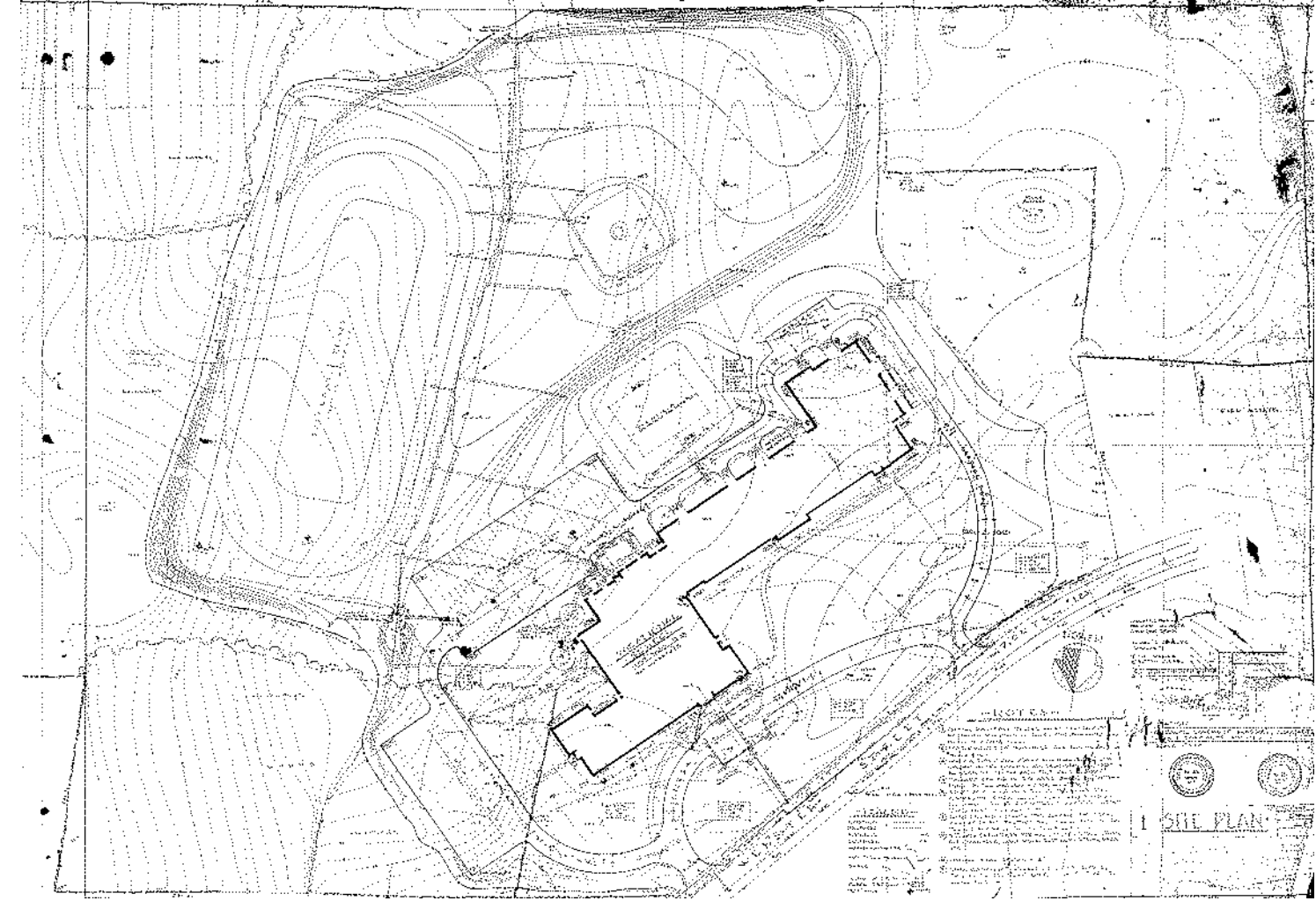
- EDWIN J. STURMACHES  
RODIN, MASSACHUSETTS
- E-1 ELECTRICAL PLOT PLAN
- E-2 ELECTRICAL FLOOR PLAN UNIT 1
- E-3 ELECTRICAL FLOOR PLAN UNIT 2
- E-4 ELECTRICAL FLOOR PLAN UNIT 3
- E-5 ELECTRICAL ONE LINE DIAGRAM

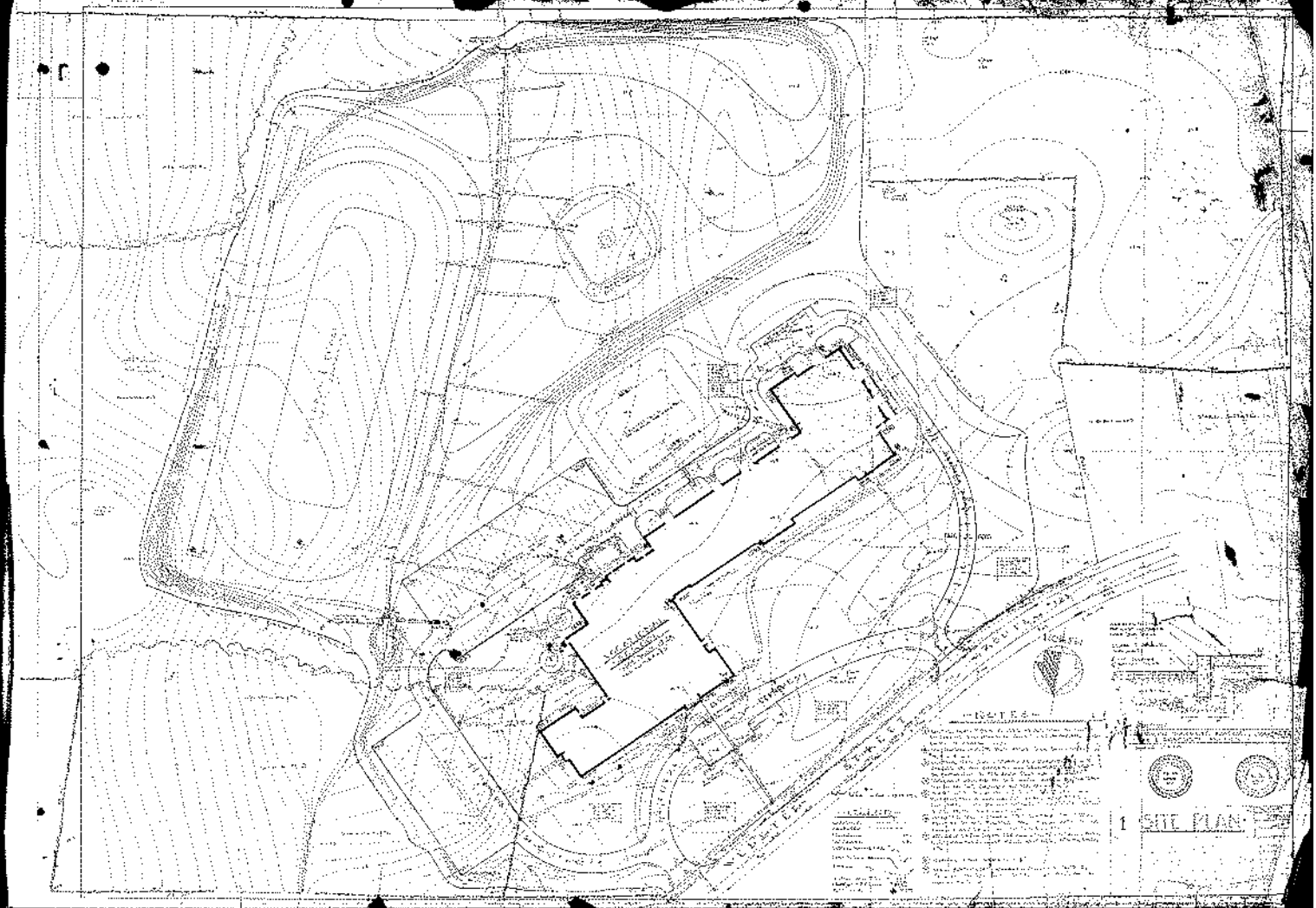
KORSLUND, LE NORMAND & QUANN INC., ARCHITECTS

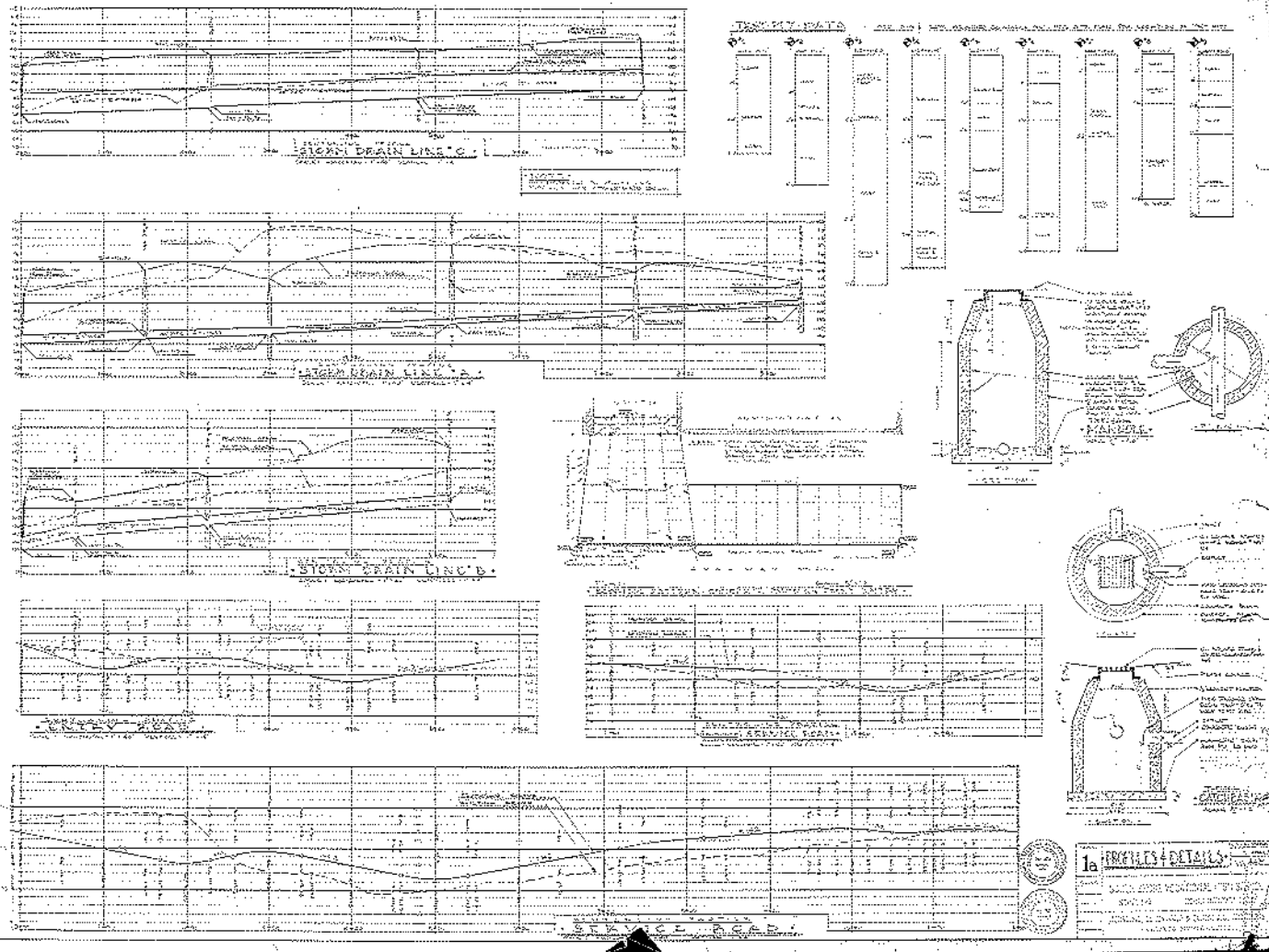
NORWOOD, MASSACHUSETTS

43





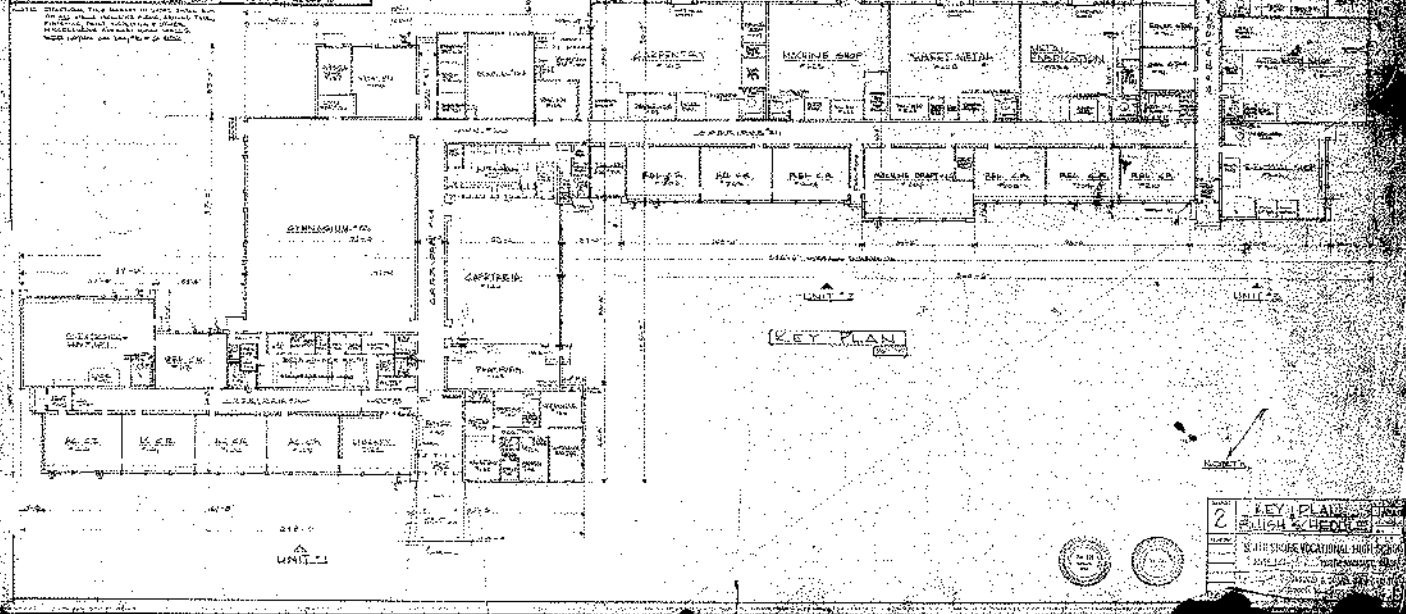




**1a** **PROFILES & DETAILS**

NO.	DESCRIPTION	DATE	BY	CHECKED
1	DESIGNED			
2	CHECKED			
3	APPROVED			

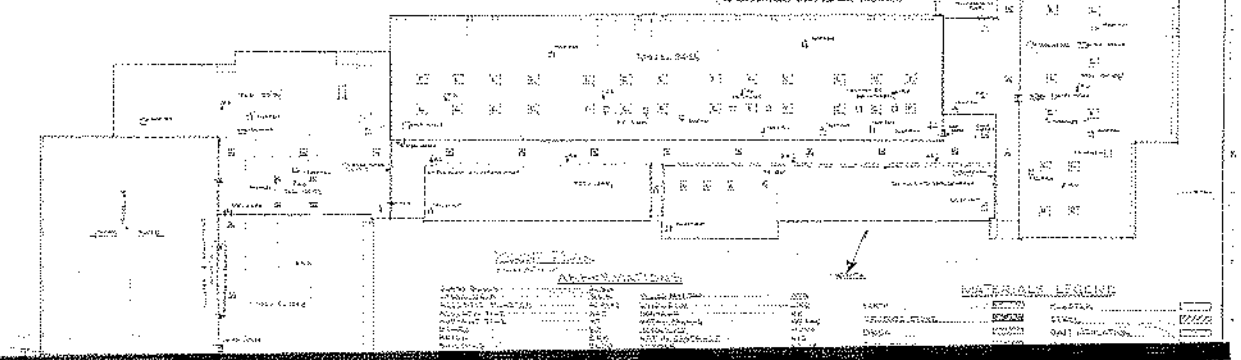
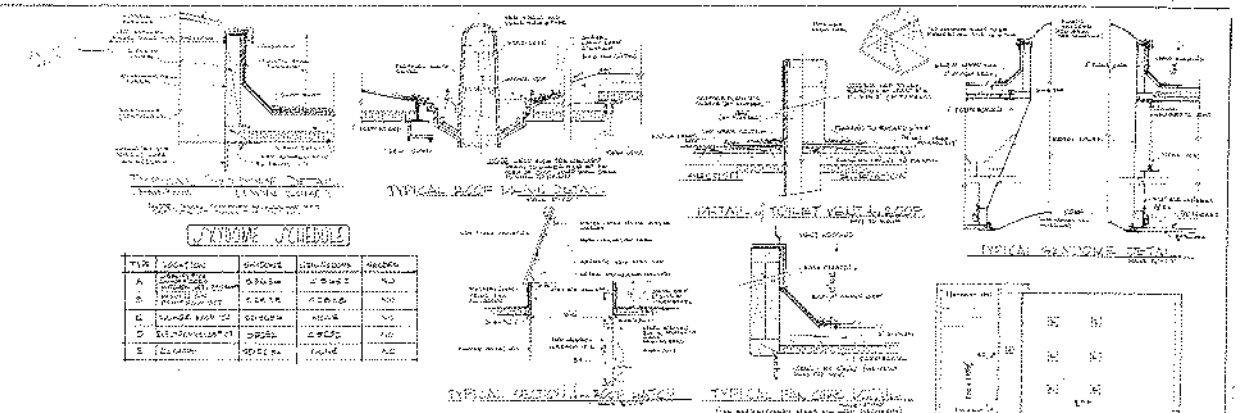
NO.	NAME	DATE	TIME	NO.	NAME	DATE	TIME	NO.	NAME	DATE	TIME
1				1				1			
2				2				2			
3				3				3			
4				4				4			
5				5				5			
6				6				6			
7				7				7			
8				8				8			
9				9				9			
10				10				10			
11				11				11			
12				12				12			
13				13				13			
14				14				14			
15				15				15			
16				16				16			
17				17				17			
18				18				18			
19				19				19			
20				20				20			
21				21				21			
22				22				22			
23				23				23			
24				24				24			
25				25				25			
26				26				26			
27				27				27			
28				28				28			
29				29				29			
30				30				30			
31				31				31			
32				32				32			
33				33				33			
34				34				34			
35				35				35			
36				36				36			
37				37				37			
38				38				38			
39				39				39			
40				40				40			
41				41				41			
42				42				42			
43				43				43			
44				44				44			
45				45				45			
46				46				46			
47				47				47			
48				48				48			
49				49				49			
50				50				50			
51				51				51			
52				52				52			
53				53				53			
54				54				54			
55				55				55			
56				56				56			
57				57				57			
58				58				58			
59				59				59			
60				60				60			
61				61				61			
62				62				62			
63				63				63			
64				64				64			
65				65				65			
66				66				66			
67				67				67			
68				68				68			
69				69				69			
70				70				70			
71				71				71			
72				72				72			
73				73				73			
74				74				74			
75				75				75			
76				76				76			
77				77				77			
78				78				78			
79				79				79			
80				80				80			
81				81				81			
82				82				82			
83				83				83			
84				84				84			
85				85				85			
86				86				86			
87				87				87			
88				88				88			
89				89				89			
90				90				90			
91				91				91			
92				92				92			
93				93				93			
94				94				94			
95				95				95			
96				96				96			
97				97				97			
98				98				98			
99				99				99			
100				100				100			



2 KEY PLAN  
 SEARCHED VOCATIONAL HIGH SCHOOL  
 ARCHITECTURE  
 DRAWING & CONSTRUCTION

**WINDUP SCHEDULE**

TRK	LOCATION	QUANTITY	DESCRIPTION	REMARKS
A	...	...	...	...
B	...	...	...	...
C	...	...	...	...
D	...	...	...	...
E	...	...	...	...

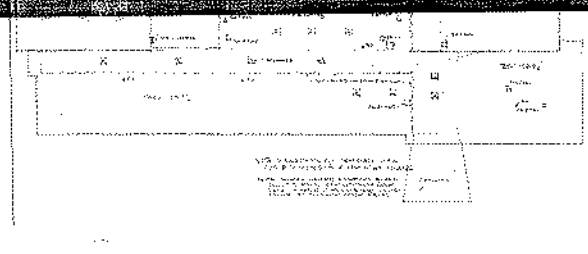


**FINISH SCHEDULE**

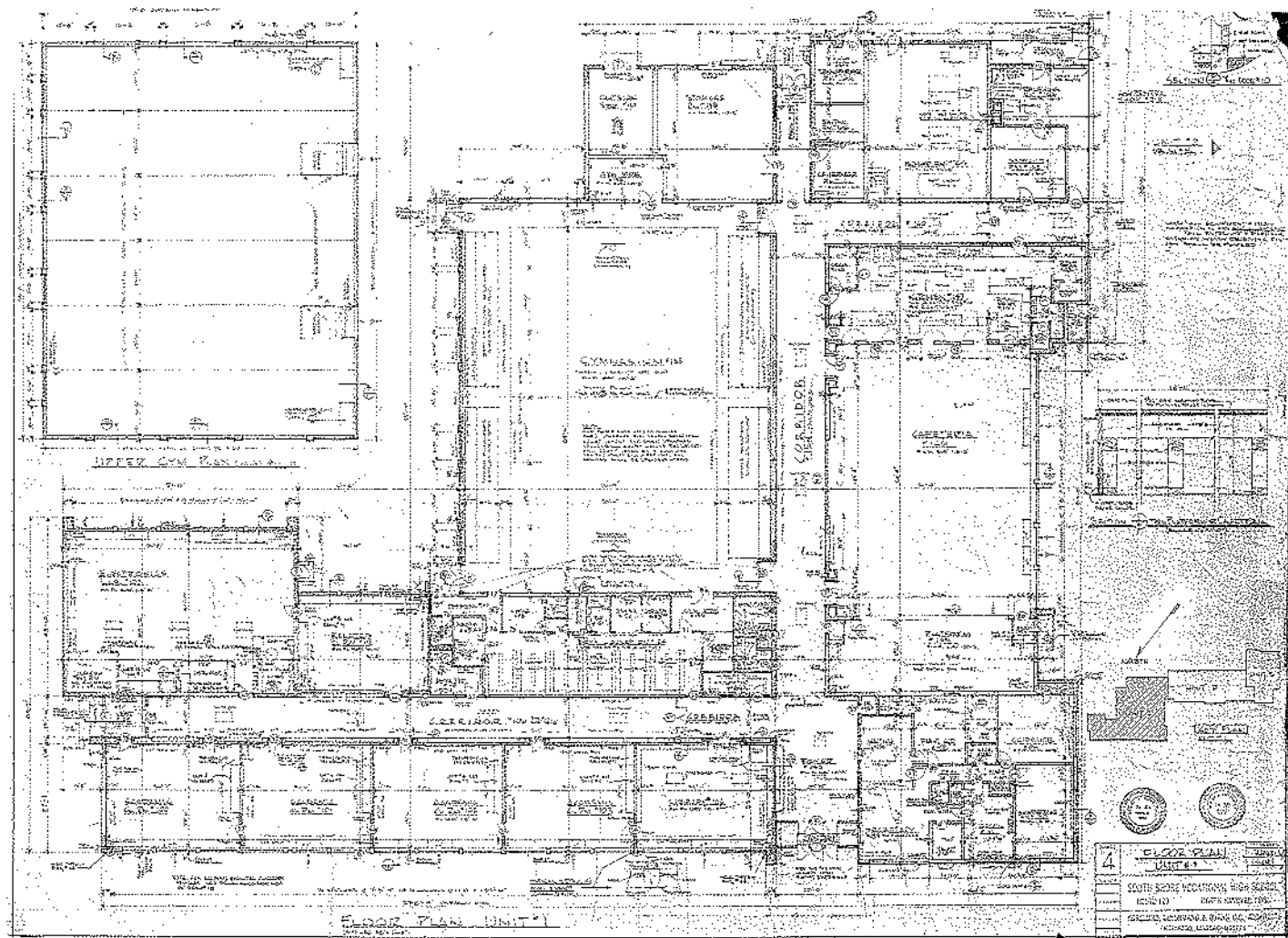
NO.	DESCRIPTION	UNIT	QTY	REMARKS
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...

**MATERIALS LEGEND**

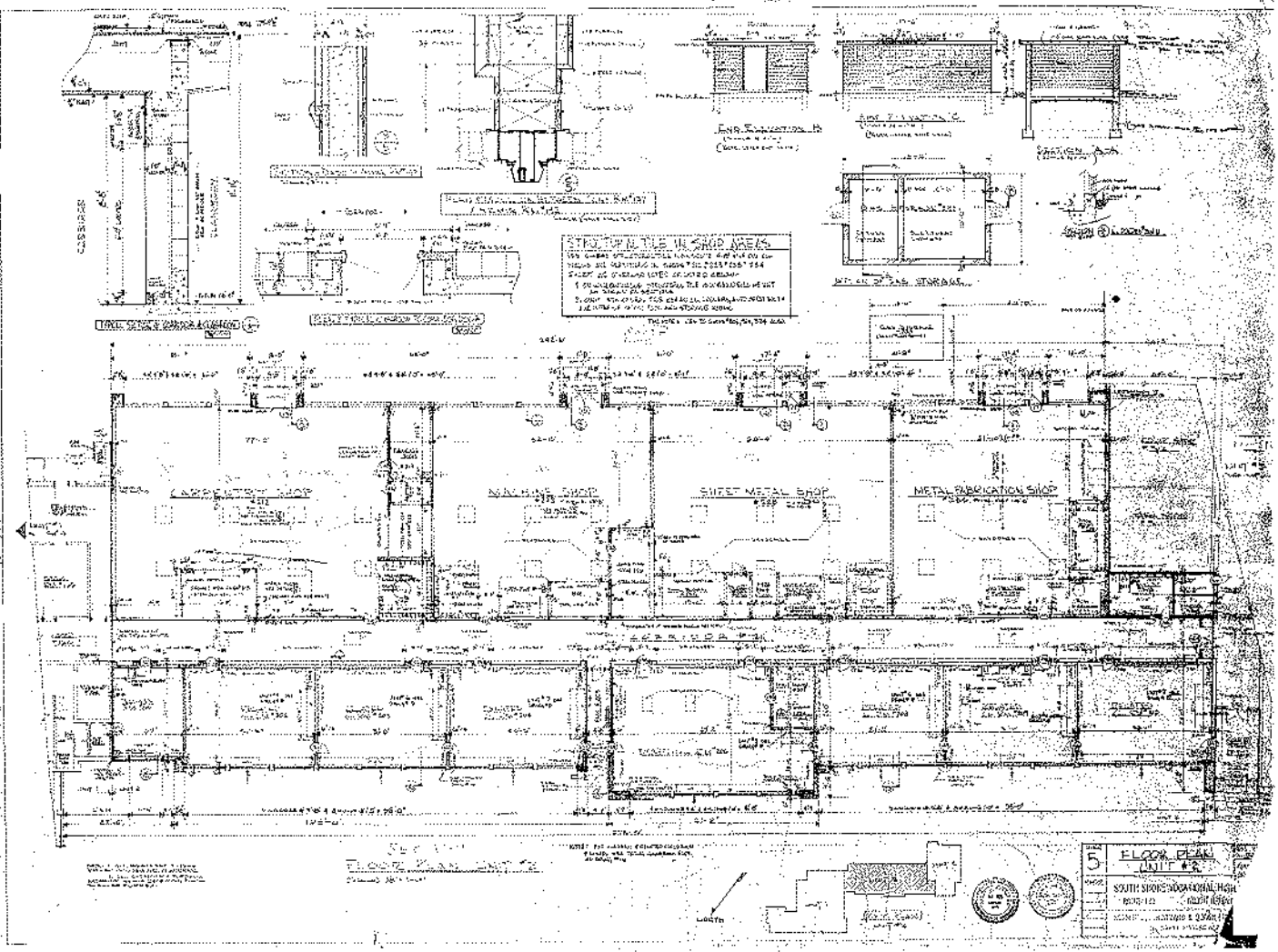
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
...	CONCRETE	...	...
...	...	...	...
...	...	...	...
...	...	...	...



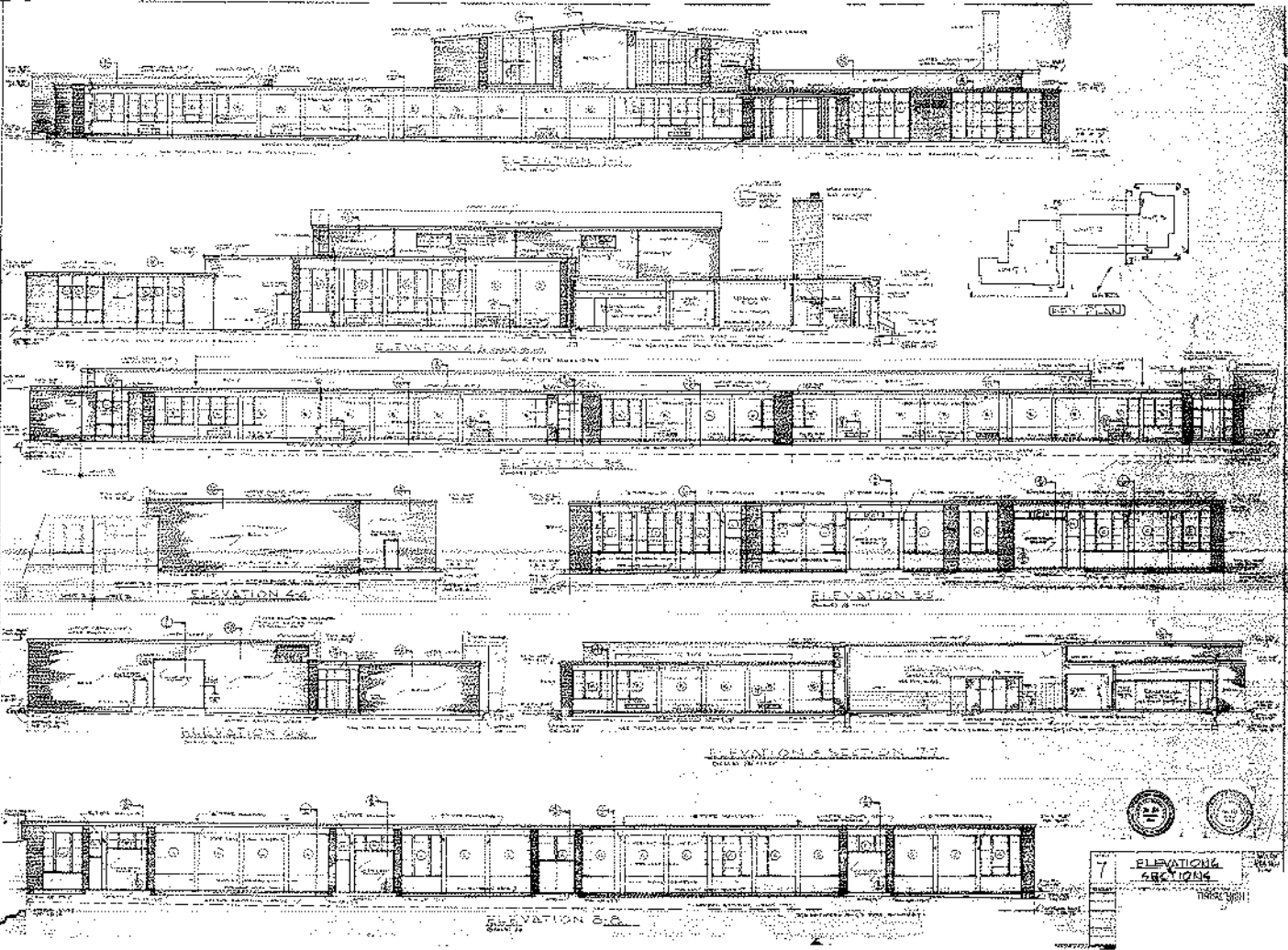
DATE: ...  
 DRAWN BY: ...  
 CHECKED BY: ...  
 PROJECT: ...

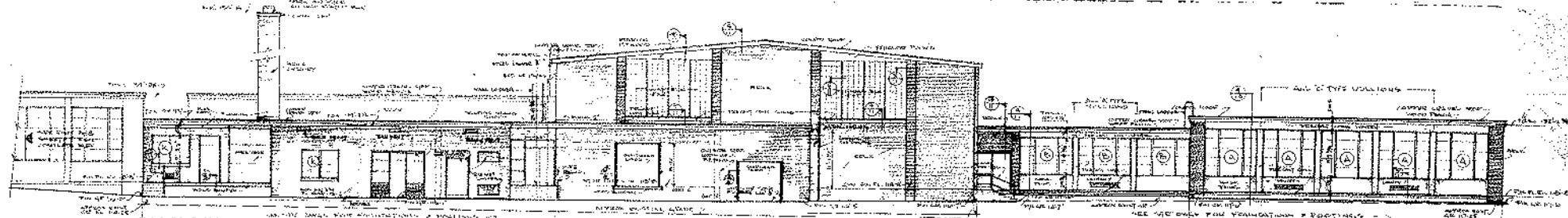




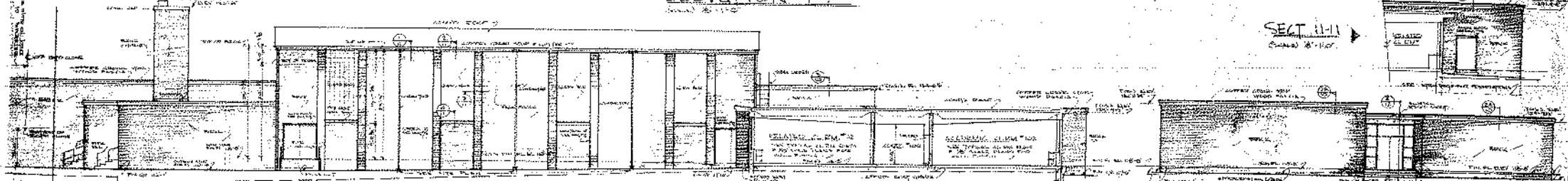






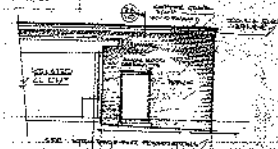


ELEVATION 9-9  
SCALE 1/8" = 1'-0"

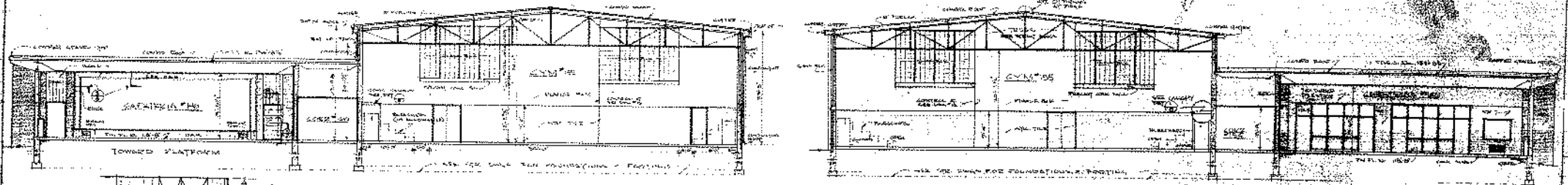


ELEVATION & SECTION 10-10  
SCALE 1/8" = 1'-0"

SECT 11-11  
SCALE 1/8" = 1'-0"

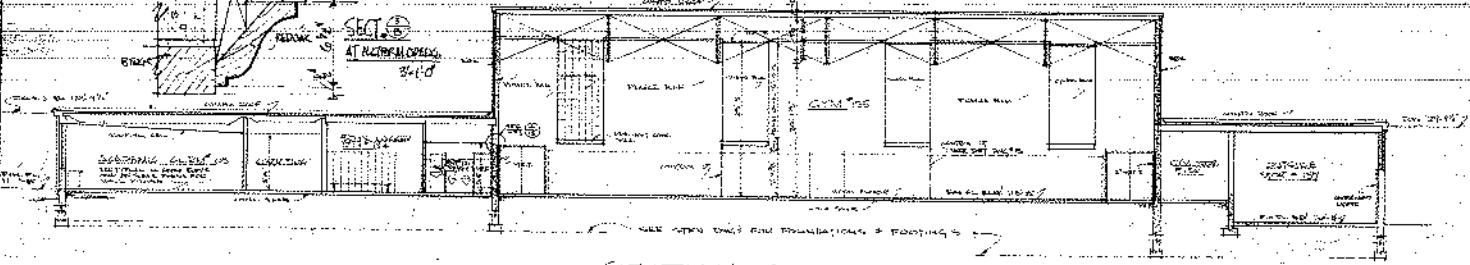


ELEVATION  
SCALE 1/8" = 1'-0"



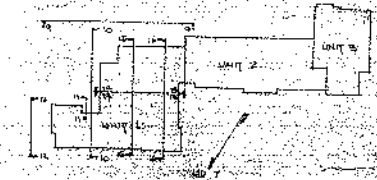
SECTION 13-13  
SCALE 1/8" = 1'-0"

SECTION 14-14  
SCALE 1/8" = 1'-0"

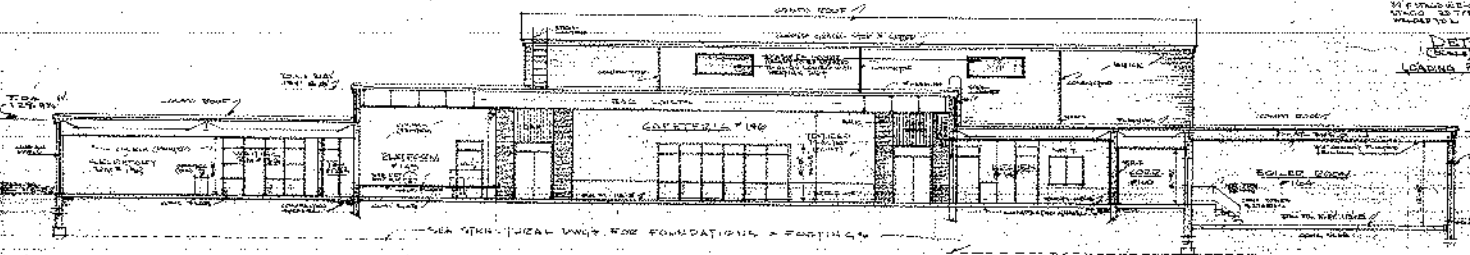


SECTION 15-15  
SCALE 1/8" = 1'-0"

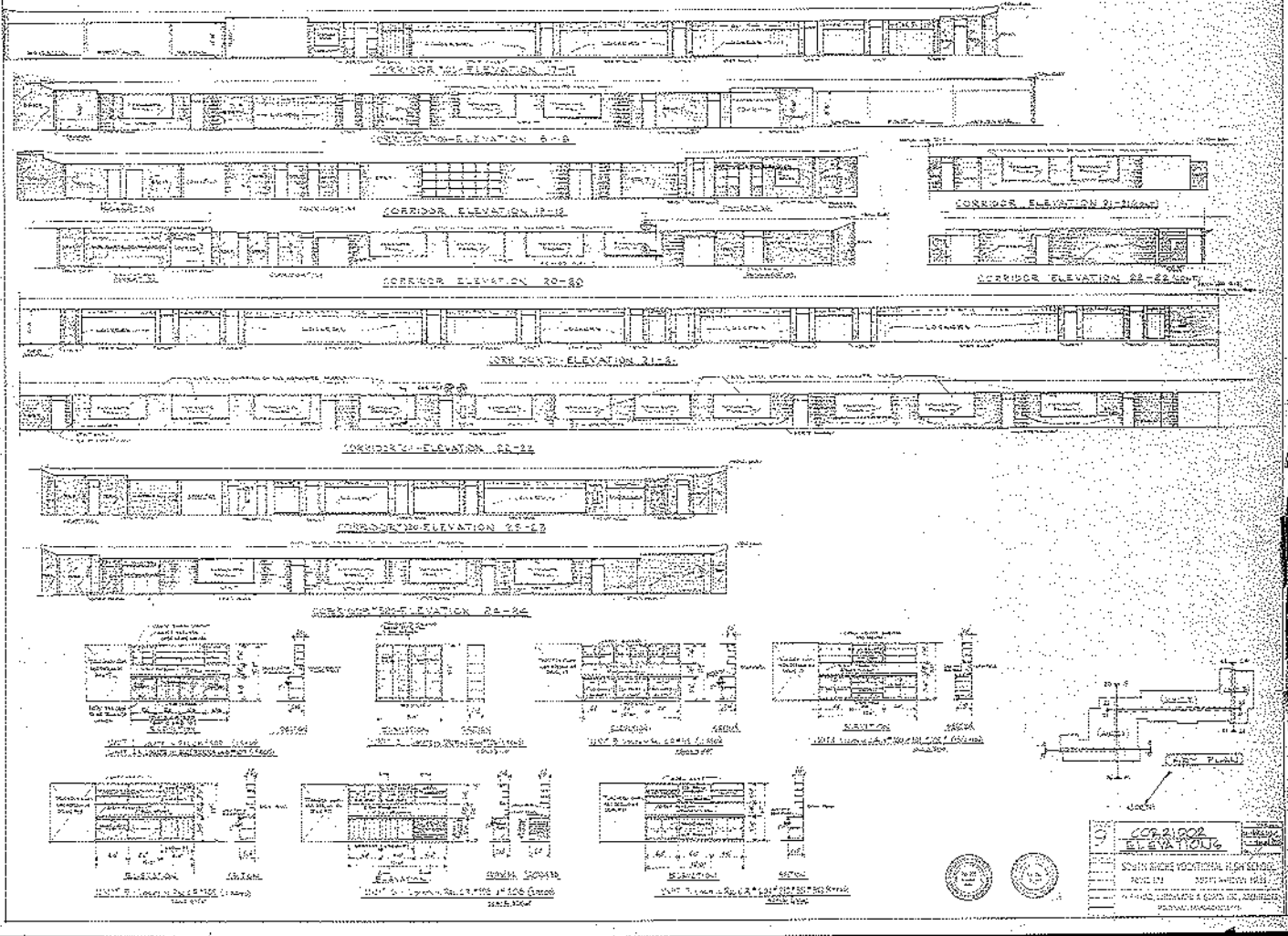
DETAIL  
SCALE 1/4" = 1'-0"

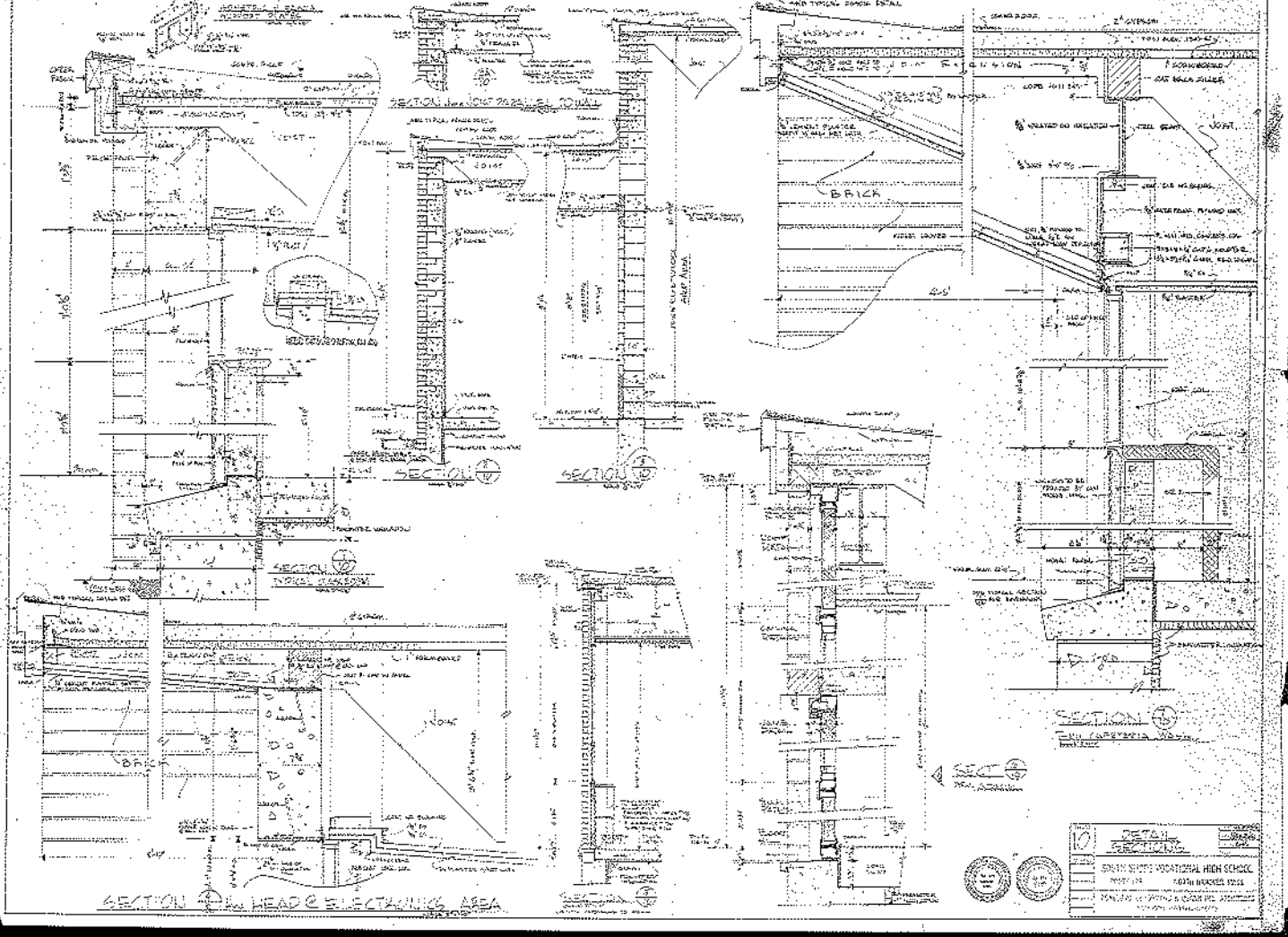


DETAIL  
SCALE 1/4" = 1'-0"



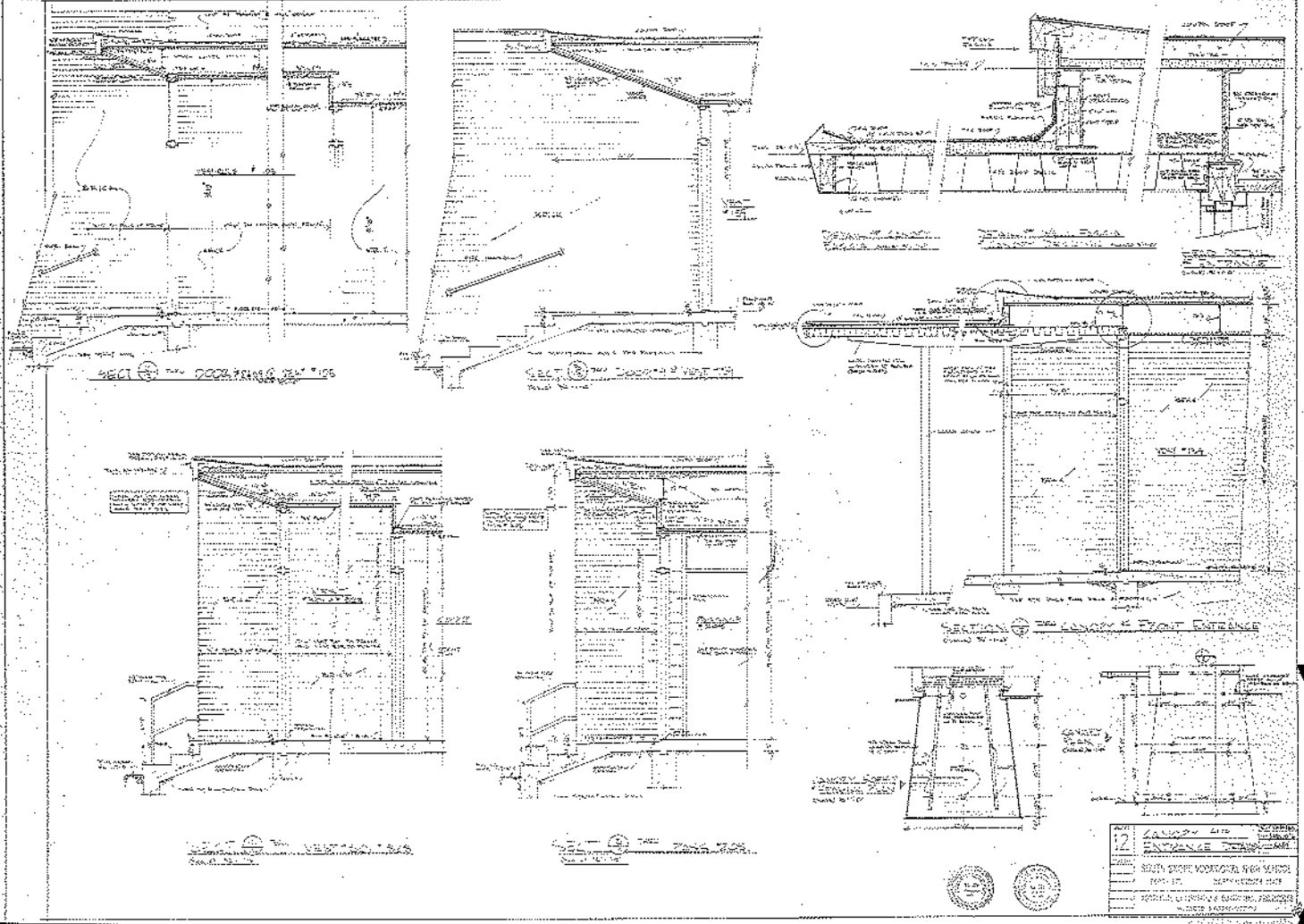
SECTION 16-16  
SCALE 1/8" = 1'-0"











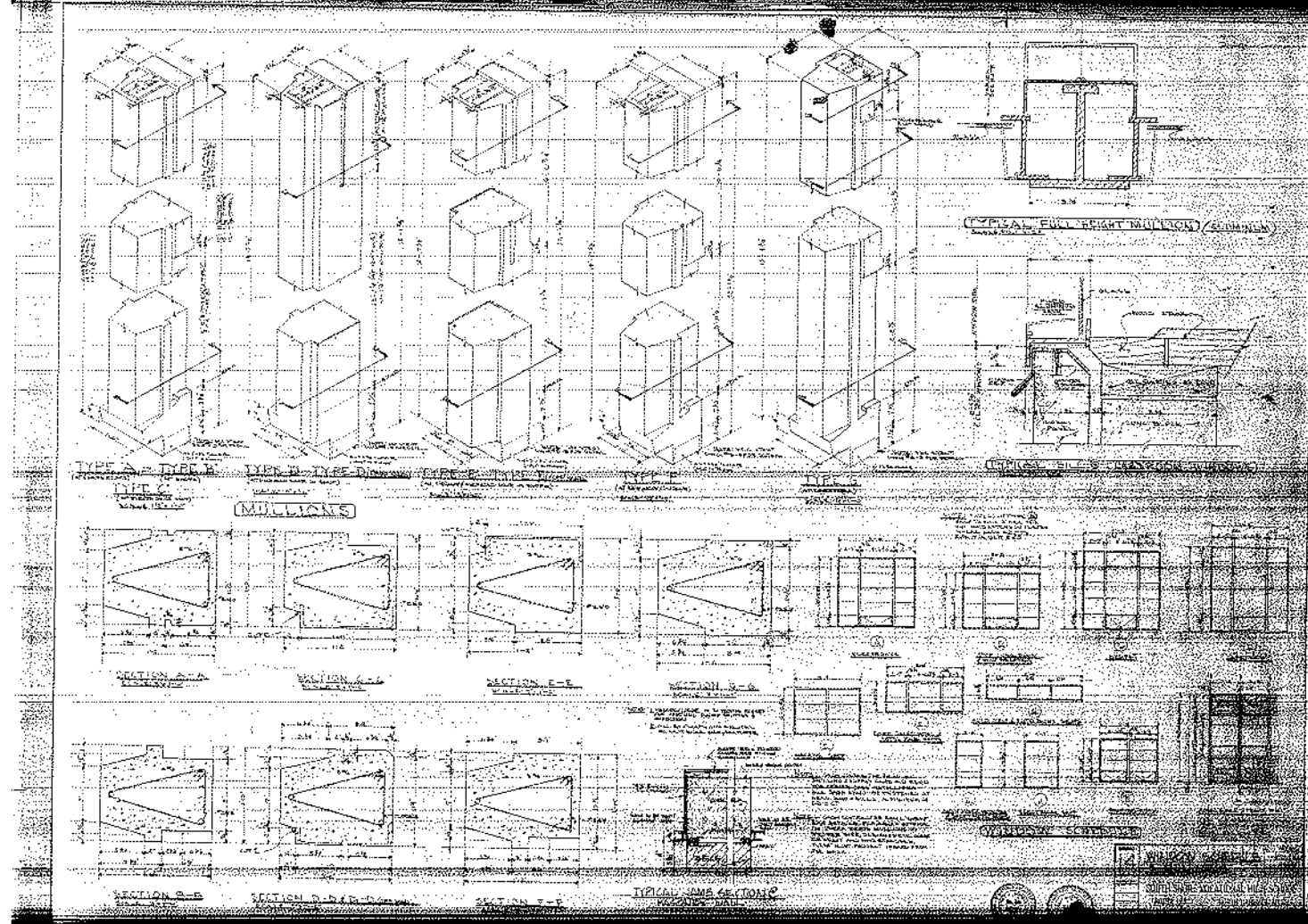
# DOOR & FRAME SCHEDULE

MARK	LOCATION	DOOR			FRAME			JAMB DETAIL	FRAME DETAIL	HARDWARE GROUP	THRESHOLD TYPE	REMARKS
		TYPE	MAT'L	SIZE	TYPE	MAT'L	SIZE					
<b>EXTERIOR DOORS</b>												
1	VEST #134 TO EXTERIOR	B	HM	3'-3 1/2" x 7'-0"	d	HM	20'-0" x 9'-10"	1	6"			A
2	VEST #105 TO EXTERIOR	B	HM	PR 2'-8" x 7'-0"	c	HM	10'-0" x 9'-10"	1	6"			A
3	ELECT LAB. #107 & EXT.	A	HM	4'-0" x 7'-0"	a	HM	4'-4" x 7'-4"	3	6"			A
4	PASSAGE #117 TO EXTERIOR	B	HM	3'-0" x 7'-0"	e	HM	6'-4" x 7'-4"	1/3	6"			A
5	GYM #155 TO EXTERIOR	A	HM	PR 3'-6" x 7'-0"	a	HM	7'-4" x 7'-4"	1/3	6"			A
6	GYM #155 TO EXTERIOR	A	HM	PR 3'-6" x 7'-0"	a	HM	7'-4" x 7'-4"	1/3	6"			A
7	OUTSIDE STOR #157 TO EXT.	ND	OVERHEAD DR		WD	8'-0" x 8'-0"	*					B
8	STOR. RM #158 TO EXTERIOR	ND	OVERHEAD DR		WD	8'-0" x 8'-0"	*					B
9	PASSAGE #159 TO EXTERIOR	B	HM	PR 2'-8" x 7'-0"	c	HM	8'-0" x 8'-8"	1	6"			A
10	TRANSFORMER RM #163 TO EXT.	A	HM	4'-0" x 7'-0"	A	IRON FRAME	16	5"				F
11	BOILER RM #164 TO EXT.	A	HM	3'-0" x 7'-0"	C	HM	10'-0" x 8'-8"	3	6"			A
12	REC. ROOM #166 TO EXTERIOR	E	HM	3'-6" x 7'-0"	b	HM	3'-10" x 8'-8"	3	6"			B
13	CARPENTRY SHOP #216 TO EXT.	A	HM	3'-0" x 7'-0"	a	HM	3'-4" x 7'-4"	3	6"			A
14	CARPENTRY SHOP #212 TO EXT.	WD	OVERHEAD DR		IRON	9'-8" x 10'-0"	*					C
15	MACHINE SHOP #225 TO EXT.	E	HM	PR 4'-0" x 7'-0"	a	HM	8'-4" x 8'-0"	3	6"			A
16	SHEET METAL SHOP #220 TO EXT.	WD	OVERHEAD DR		IRON	9'-8" x 10'-0"	*					B
17	SHEET METAL SHOP #220 TO EXT.	E	HM	3'-0" x 7'-10"	a	HM	3'-4" x 8'-0"	4	6"			A
18	METAL FAB SHOP #218 TO EXT.	WD	OVERHEAD DR		IRON	9'-8" x 10'-0"	*					B
19	METAL FAB SHOP #218 TO EXT.	E	HM	3'-0" x 7'-10"	a	HM	3'-4" x 8'-0"	4	6"			A
20	GAS STOR. TO EXT.	A	HM	3'-0" x 5'-4 1/2"	a	HM	3'-4" x 5'-6 1/2"	3	6"			F
21	GAS STOR. TO EXT.	A	HM	3'-0" x 5'-4 1/2"	a	HM	3'-4" x 5'-6 1/2"	3	6"			F
22	VEST 323 TO EXT.	B	HM	PR 2'-8" x 7'-0"	c	HM	10'-0" x 9'-10"	1	6"			A
23	AUTO MECH SHOP #240 TO EXT.	WD	OVERHEAD DR		IRON	14'-0" x 11'-8"	*					B
24	AUTO MECH SHOP #240 TO EXT.	E	HM	3'-0" x 7'-0"	a	HM	3'-4" x 7'-4"	3	6"			A
25	AUTO MECH SHOP #240 TO EXT.	E	HM	3'-0" x 7'-10"	a	HM	3'-4" x 8'-0"	4	6"			A
26	AUTO MECH SHOP #240 TO EXT.	WD	OVERHEAD DR		IRON	12'-0" x 12'-0"	*					B
27	AUTO BODY SHOP #245 TO EXT.	WD	OVERHEAD DR		IRON	12'-0" x 12'-0"	*					B
28	AUTO BODY SHOP #245 TO EXT.	E	HM	4'-0" x 7'-0"	a	HM	4'-4" x 7'-4"	3	6"			A
29	ELECTRIC SHOP TO EXT.	E	HM	4'-0" x 7'-10"	a	HM	4'-4" x 8'-0"	4	6"			A
30	VEST 301 TO EXT.	B	HM	PR 2'-8" x 7'-0"	c	HM	10'-0" x 9'-10"	1	6"			A
31	PASS 208 TO EXT.	B	HM	3'-0" x 7'-0"	e	HM	5'-2" x 8'-8"	1/3	6"			A
32	PLATFORM 145 TO EXT.	A	HM	3'-6" x 7'-0"	A	HM	3'-10" x 7'-4"	1/3	6"			A
33	NOT USED											
34	NOT USED											

<b>INTERIOR DOORS UNIT 1</b>												
MARK	LOCATION	TYPE	MAT'L	SIZE	TYPE	MAT'L	SIZE	JAMB DETAIL	FRAME DETAIL	HARDWARE GROUP	THRESHOLD TYPE	REMARKS
35	FOYER 155 TO VEST 134	B	WD	3'-3 1/2" x 7'-0"	d	HM	20'-0" x 9'-10"	1	6"			OAK DOORS
36	FOYER 155 TO WAITING 135	E	WD	3'-0" x 7'-0"	f	HM	12'-0" x 8'-8"	3	6"			OAK DOOR
37	FOYER 135 TO TELS. 136A	E	WD	2'-0" x 7'-0"	b	HM	2'-4" x 8'-8"	3	6"			SOLID TRANSOM (EMESTO B'D)
38	RIGHT AID 140 TO TLT 143	C	WD	2'-0" x 7'-0"	b	HM	2'-4" x 8'-8"	5	6 1/2"			SOLID TRANSOM (EMESTO B'D)
39	WAITING 135 TO PASS. 136A	A	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	5	6 1/2"			
40	NOT USED											
41	VAULT 141 TO PASS. 137A			3'-0" x 7'-0"			3'-4" x 7'-2"					VAULT DOOR (SEE SPECS)
42	ADMINISTR. 142 TO PASS. 137A	A	WD	2'-8" x 7'-0"	b	HM	3'-0" x 8'-8"	5	6 1/2"			OAK DOOR
43	CLOC. 142A TO ADMINISTR. 142	C	WD	2'-0" x 7'-0"	b	HM	2'-4" x 8'-8"	5	6 1/2"			OAK DOOR
44	PASS. 136A TO TOILET 144	C	WD	2'-0" x 7'-0"	b	HM	2'-4" x 8'-8"	5	6 1/2"			
45	PASS. 136A TO RIGHT AID 140	A	WD	2'-8" x 7'-0"	b	HM	3'-0" x 8'-8"	5	6 1/2"			
46	WAITING 135 TO RIGHT AID 140	A	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	5	6 1/2"			
47	CORRIDOR 106 TO COR. 105	D	WD	PR 2'-8" x 7'-0"	c	HM	10'-0" x 8'-8"	1	6"			
48	PASS. 136A TO ADMINISTR. 142	A	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	5	6 1/2"			OAK DOOR
49	CORRIDOR 106 TO LIBRARY 104	E	WD	3'-0" x 7'-0"	c	HM	8'-0" x 8'-8"	3	6"			LOUVER IN MET. PANEL
50	CORRIDOR 106 TO AC CR. 102	B	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	3	4 1/2"			
51	CORRIDOR 106 TO AC CR. 102	B	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	3	4 1/2"			
52	CORRIDOR 106 TO AC CR. 102	B	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	3	4 1/2"			

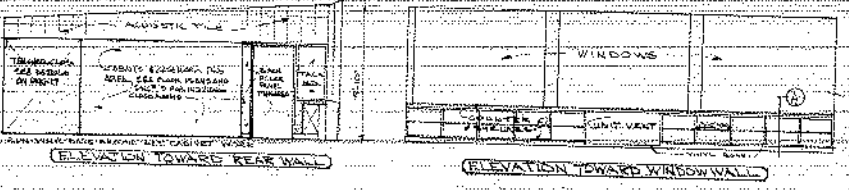
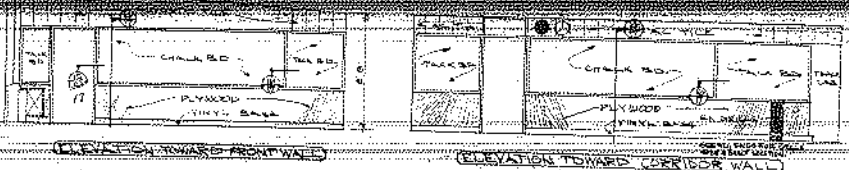
MARK	LOCATION	DOOR			FRAME			JAMB DETAIL	FRAME DETAIL	HARDWARE GROUP	THRESHOLD TYPE	REMARKS
		TYPE	MAT'L	SIZE	TYPE	MAT'L	SIZE					
84	GYM 155 TO CORRIDOR 154	A	WD	PR 3'-6" x 7'-0"	a	HM	7'-4" x 7'-4"	1/3	4 1/2"			D
85	GYM 155 TO GYM 155	A	WD	PR 2'-8" x 7'-0"	a	HM	5'-8" x 7'-4"	3	4 1/2"			D
86	GYM 155 TO GYM 155	A	WD	PR 2'-8" x 7'-0"	a	HM	5'-8" x 7'-4"	3	4 1/2"			D
87	CORRIDOR 154 TO PLATFORM 145	A	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	3	4 1/2"			
88	CAFETERIA 144 TO PLATFORM 145	A	WD	3'-0" x 7'-0"	a	HM	3'-4" x 7'-2"	3	4 1/2"			OAK DOOR
89	CAFETERIA 144 TO CORRIDOR 154	B	WD	PR 2'-8" x 7'-0"	b	HM	5'-8" x 8'-8"	3	4 1/2"			OAK DOOR
90	CAFETERIA 144 TO CORRIDOR 154	B	WD	PR 2'-8" x 7'-0"	b	HM	5'-8" x 8'-8"	3	4 1/2"			OAK DOOR
91	CORRIDOR 154 TO KITCHEN 147	B	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	3	4 1/2"			
92	CAFETERIA 144 TO KITCHEN 147	E	WD	2' DIA 3'-0" x 7'-0"	h	HM	16'-0" x 9'-6"	3	6"			OAK DOOR
93	CAFETERIA 144 TO KITCHEN 147	E	WD	2' DIA 3'-0" x 7'-0"	h	HM	16'-0" x 9'-6"	3	6"			OAK DOOR
94	CORRIDOR 154 TO KITCHEN 147	B	WD	2'-6" x 7'-0"	b	HM	2'-10" x 8'-8"	3	4 1/2"			
95	CORRIDOR 211 TO KITCHEN 147	A	WD	3'-6" x 7'-0"	b	HM	3'-10" x 8'-8"	3	4 1/2"			
96	KITCHEN 147 TO BOILER RM 102	E	WD	2'-6" x 7'-0"	b	HM	2'-10" x 8'-8"	3	4 1/2"			
97	KITCHEN 147 TO TLT 151	C	WD	2'-4" x 7'-0"	a	HM	2'-8" x 7'-2"	1/5	4 1/2"			
98	CORRIDOR 154 TO PASS 157	D	WD	PR 2'-8" x 7'-0"	c	HM	8'-0" x 8'-8"	3	6"			
99	PASS 157 TO STOR. RM 150	A	WD	PR 2'-8" x 7'-0"	b	HM	5'-8" x 8'-8"	2	6"			
100	PASS 157 TO GEN. RM 161	A	HM	4'-0" x 7'-0"	a	HM	4'-4" x 7'-2"	2	4 1/2"			B LABEL DOOR & FRAME
101	PASS 159 TO SWIT. RM 162	C	WD	3'-0" x 7'-0"	a	HM	3'-4" x 7'-2"	2	4 1/2"			B LABEL DOOR & FRAME
102	CORRIDOR 102 TO BOILER RM 102	A	HM	3'-6" x 7'-0"	a	HM	3'-10" x 7'-2"	2	6"			A LABEL DOOR & FRAME
103	CORRIDOR 211 TO STOR. RM 165	C	WD	3'-6" x 7'-0"	b	HM	3'-10" x 8'-8"	3	4 1/2"			
104	CORRIDOR 211 TO REC. RM 166	A	HM	3'-6" x 7'-0"	a	HM	3'-10" x 7'-2"	3	4 1/2"			B LABEL DOOR & FRAME
105	REC. RM 166 TO STOR. 165	A	HM	3'-6" x 7'-0"	a	HM	3'-10" x 7'-2"	3	4 1/2"			B LABEL DOOR & FRAME
106	NOT USED											
107	CORRIDOR 211 TO CORRIDOR 211	D	WD	PR 2'-8" x 7'-0"	c	HM	10'-0" x 8'-8"	1	6"			
108	STOR. CL. 136A TO CHD. 136	C	WD	2'-0" x 7'-0"	b	HM	2'-4" x 8'-8"	5	6 1/2"			
109	CLOC. 136B TO CHD. 136	C	WD	2'-0" x 7'-0"	b	HM	2'-4" x 8'-8"	5	6 1/2"			

<b>INTERIOR DOORS UNIT 2</b>												
MARK	LOCATION	TYPE	MAT'L	SIZE	TYPE	MAT'L	SIZE	JAMB DETAIL	FRAME DETAIL	HARDWARE GROUP	THRESHOLD TYPE	REMARKS
110	CORRIDOR 211 TO REAR RM 201	C	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	3	4 1/2"			
111	CORRIDOR 211 TO REAR RM 202	B	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	3	4 1/2"			
112	CORRIDOR 211 TO REAR RM 203	B	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	3	4 1/2"			
113	CORRIDOR 211 TO REAR RM 204	B	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	3	4 1/2"			
114	CORRIDOR 211 TO PASS 205	D	WD	3'-0" x 7'-0"	c	HM	5'-8" x 8'-8"	1	6"			
115	CORRIDOR 211 TO CARP SHOP 217	B	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	3	4 1/2"			E
116	CARP SHOP 217 TO PAINT 217	C	HM	3'-4" x 7'-0"	a	HM	2'-8" x 7'-2"	3	4 1/2"			
117	NOT USED											
118	FINISH RM 218 TO CARP SHOP 217	E	WD	3'-0" x 7'-0"	g	HM	6'-8" x 7'-2"	3	4 1/2"			
119	NOT USED											
120	TLT 152 TO REAR RM 201	C	WD	2'-4" x 7'-0"	a	HM	2'-8" x 7'-2"	6	7 1/2"			
121	REL. CR 202 TO REL. CR 203	A	WD	3'-0" x 7'-0"	a	HM	3'-4" x 7'-2"	5	6 1/2"			
122	REL. CR 203 TO REL. CR 204	A	WD	3'-0" x 7'-0"	a	HM	3'-4" x 7'-2"	5	6 1/2"			
123	REL. CR 205 TO PASS 204	B	WD	3'-0" x 7'-0"	a	HM	3'-4" x 7'-2"	3	6 1/2"			
124	PASS 205 TO DRAFT RM 206	B	WD	3'-0" x 7'-0"	a	HM	3'-4" x 7'-2"	3	6 1/2"			
125	CORRIDOR 211 TO FINISH SHOP 223	B	WD	3'-0" x 7'-0"	b	HM	3'-4" x 8'-8"	3	4 1/2"			E
126	NOT USED											
127	NOT USED											
128	INSTR. RM 226 TO MECH SHOP 223	E	WD	3'-0" x 7'-0"	e	HM						

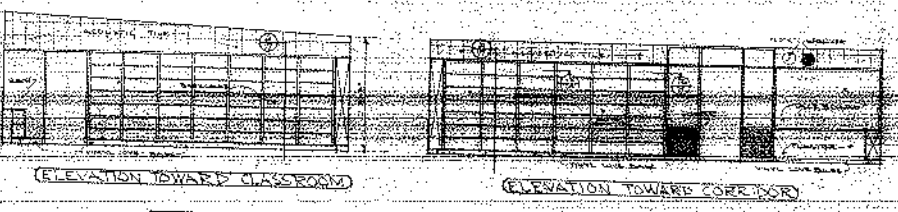
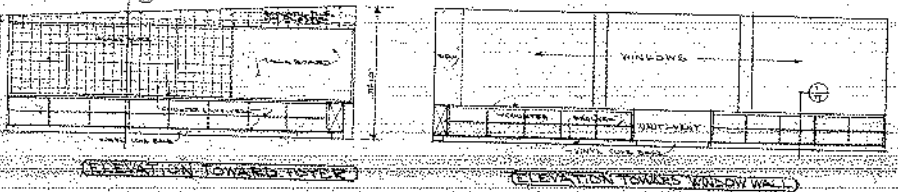




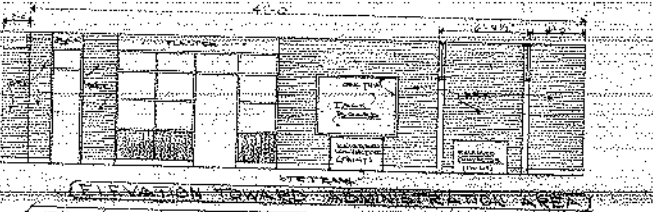
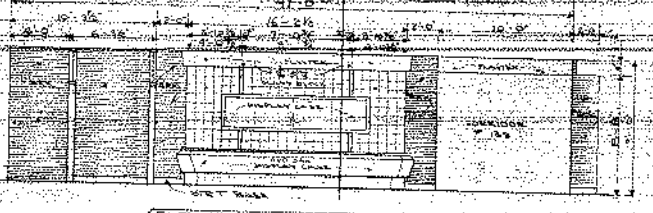




TYPICAL CLASSROOM ELEVATIONS  
SCALE 1/8" = 1'-0"

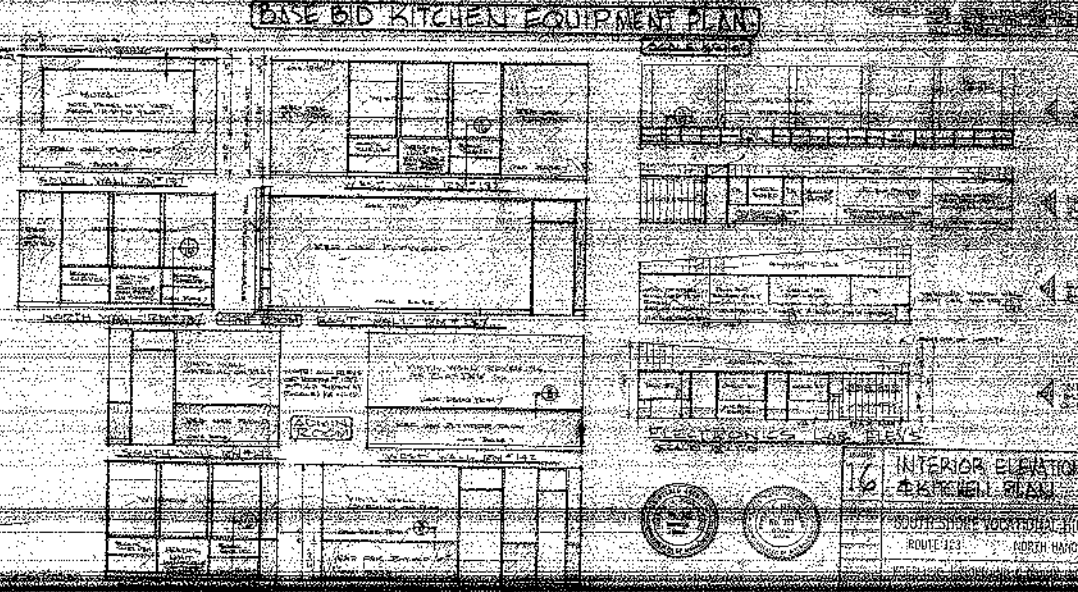
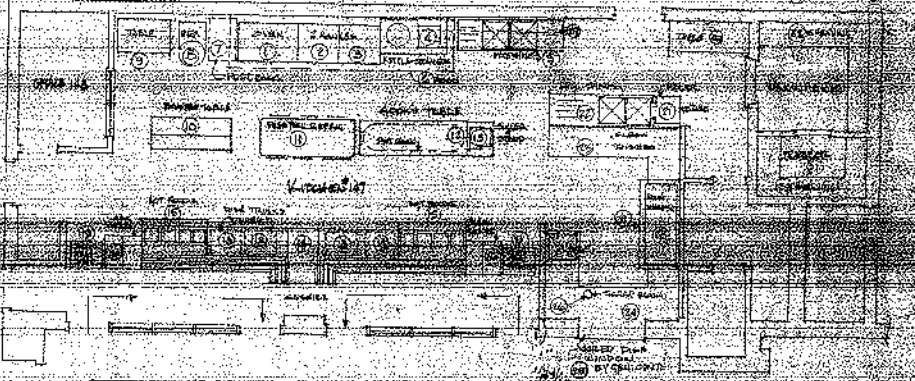
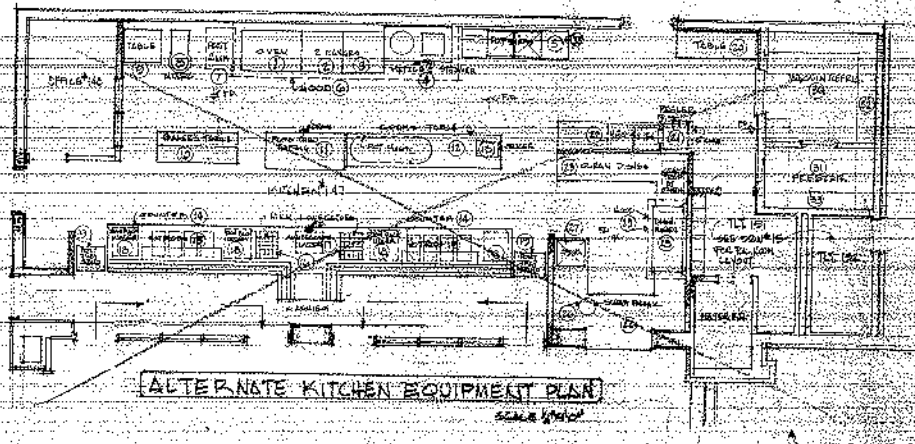


LIBRARY ELEVATIONS  
SCALE 1/8" = 1'-0"



FOYER ELEVATIONS  
SCALE 1/8" = 1'-0"

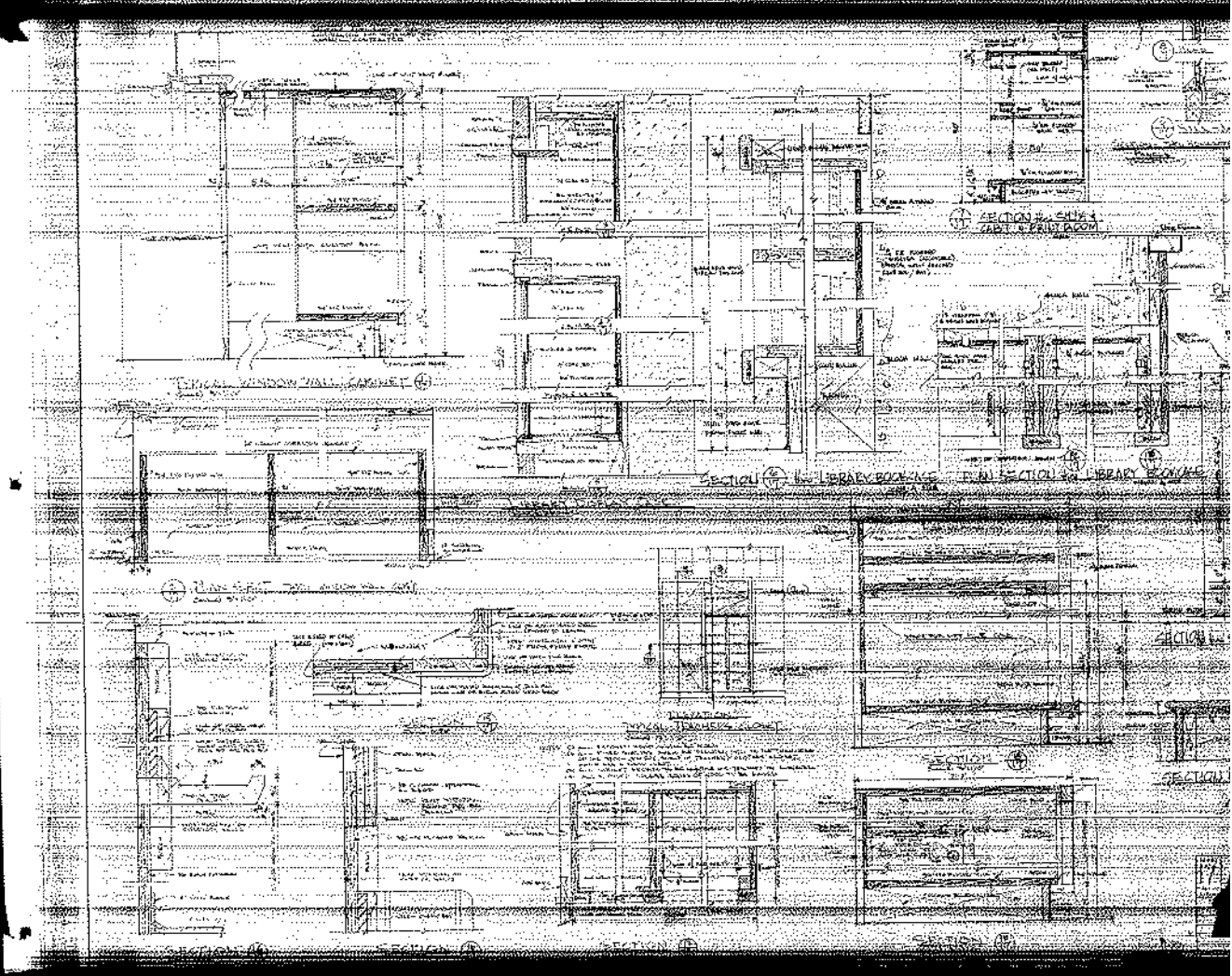
SECTION 16

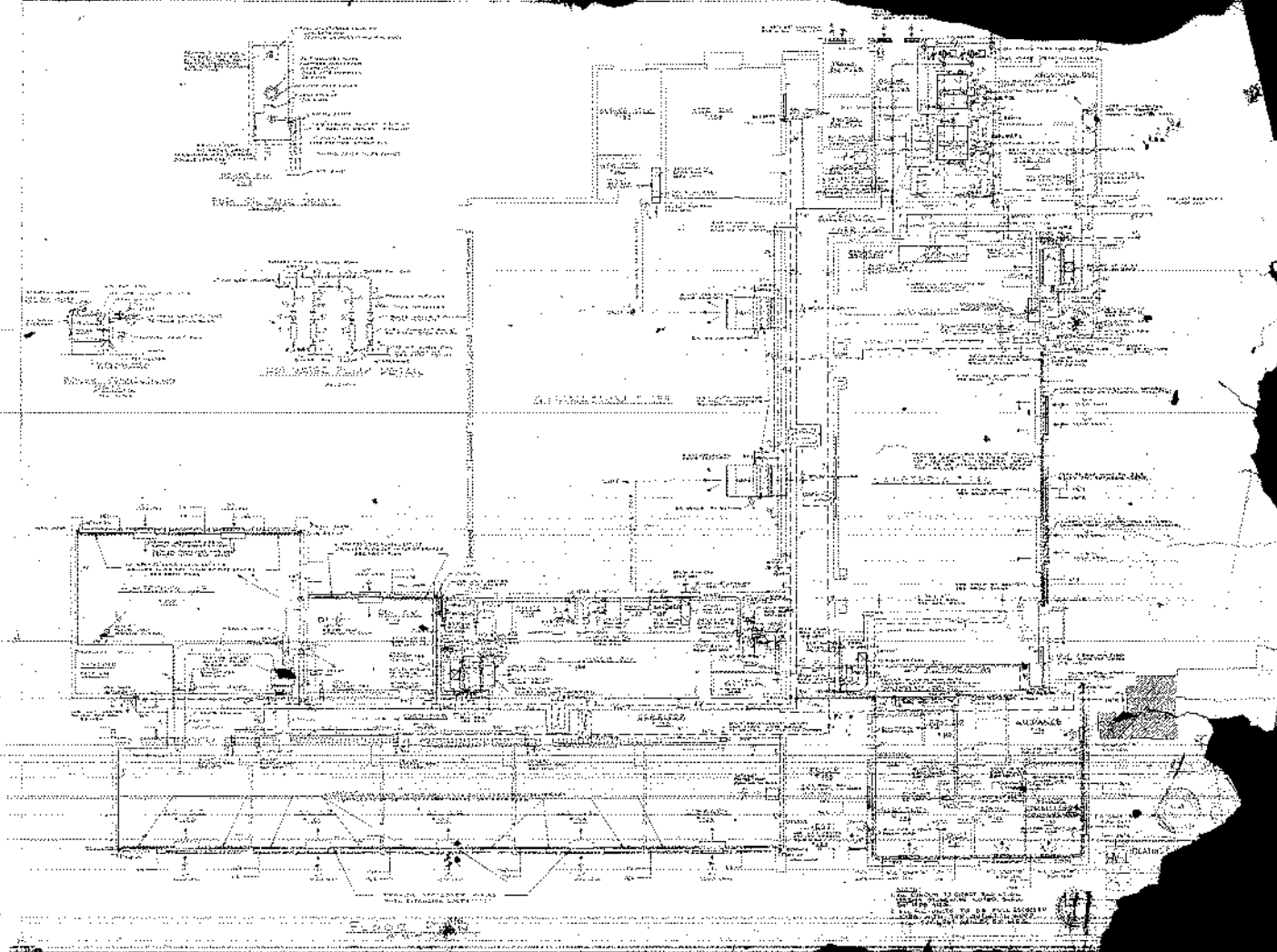


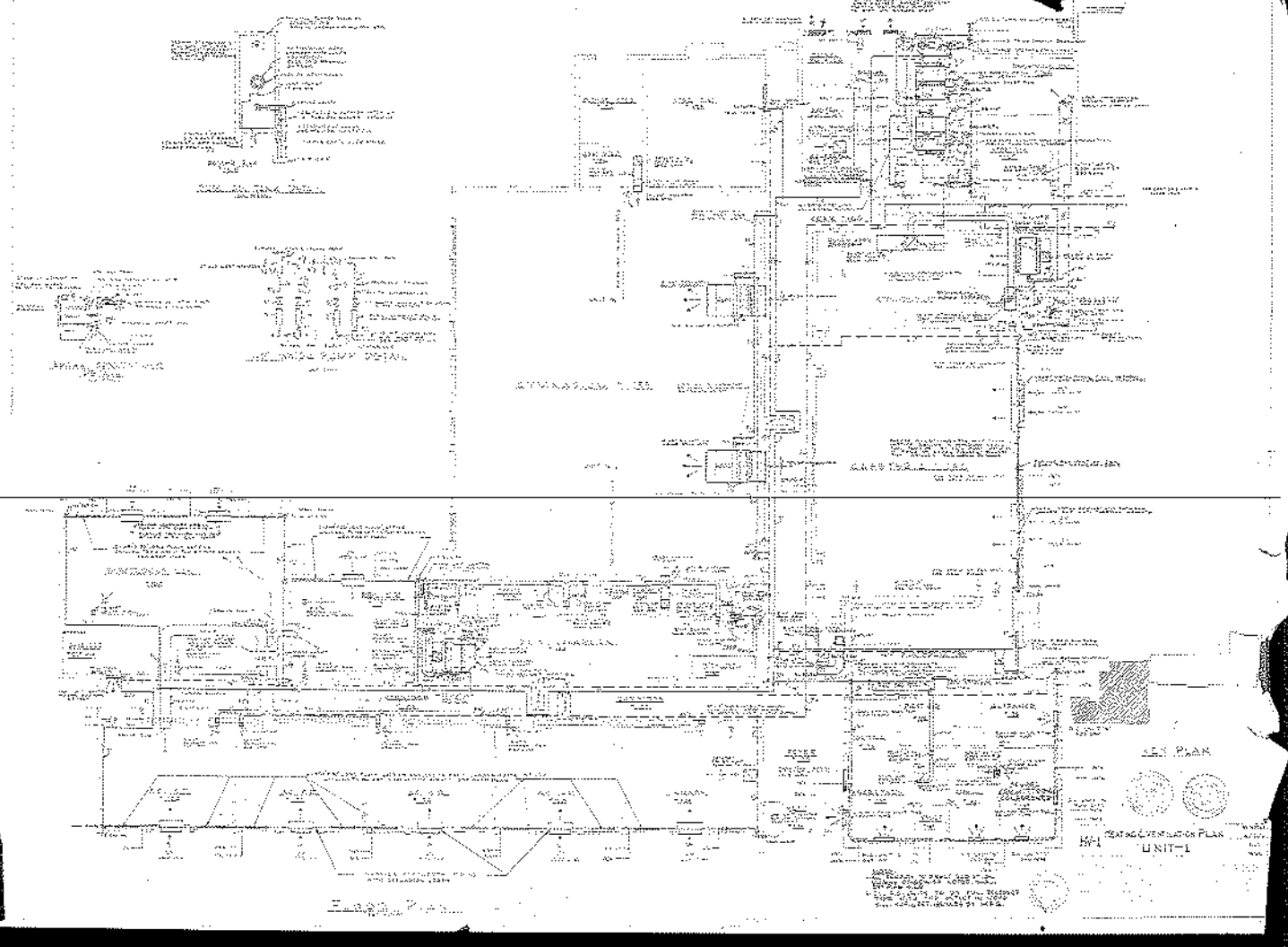
16 INTERIOR ELEVATIONS  
& KITCHEN PLAN

2007 HENRY VICKREY HILL ST. N.W.  
BOWIE, MD 21050  
NORTH HAVOC, MD





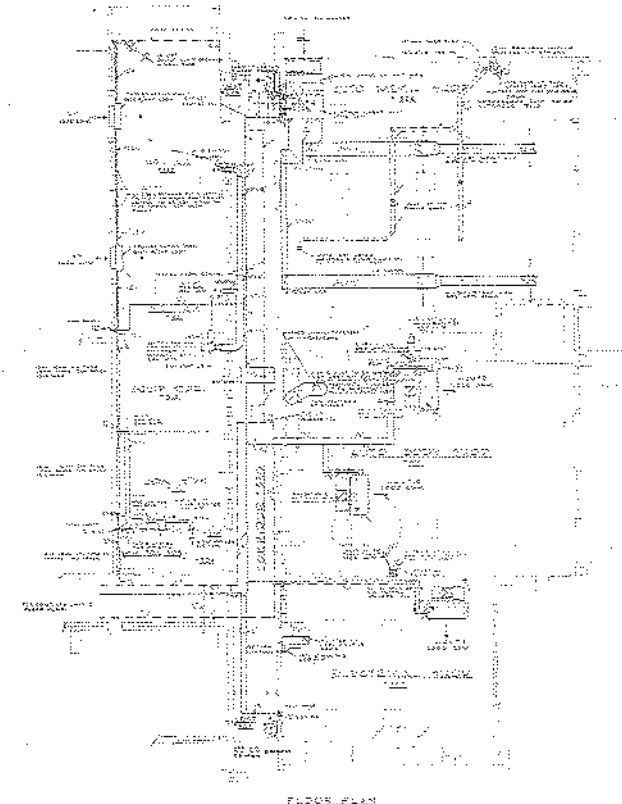




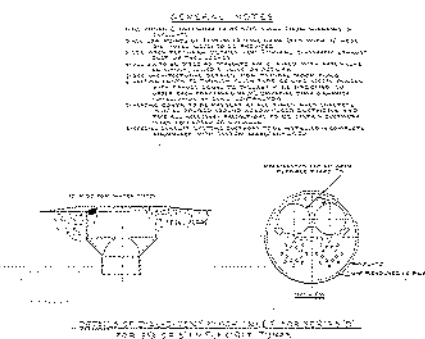
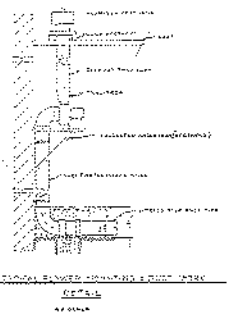
SEE PLAN

VENTILATION PLAN  
UNIT-1

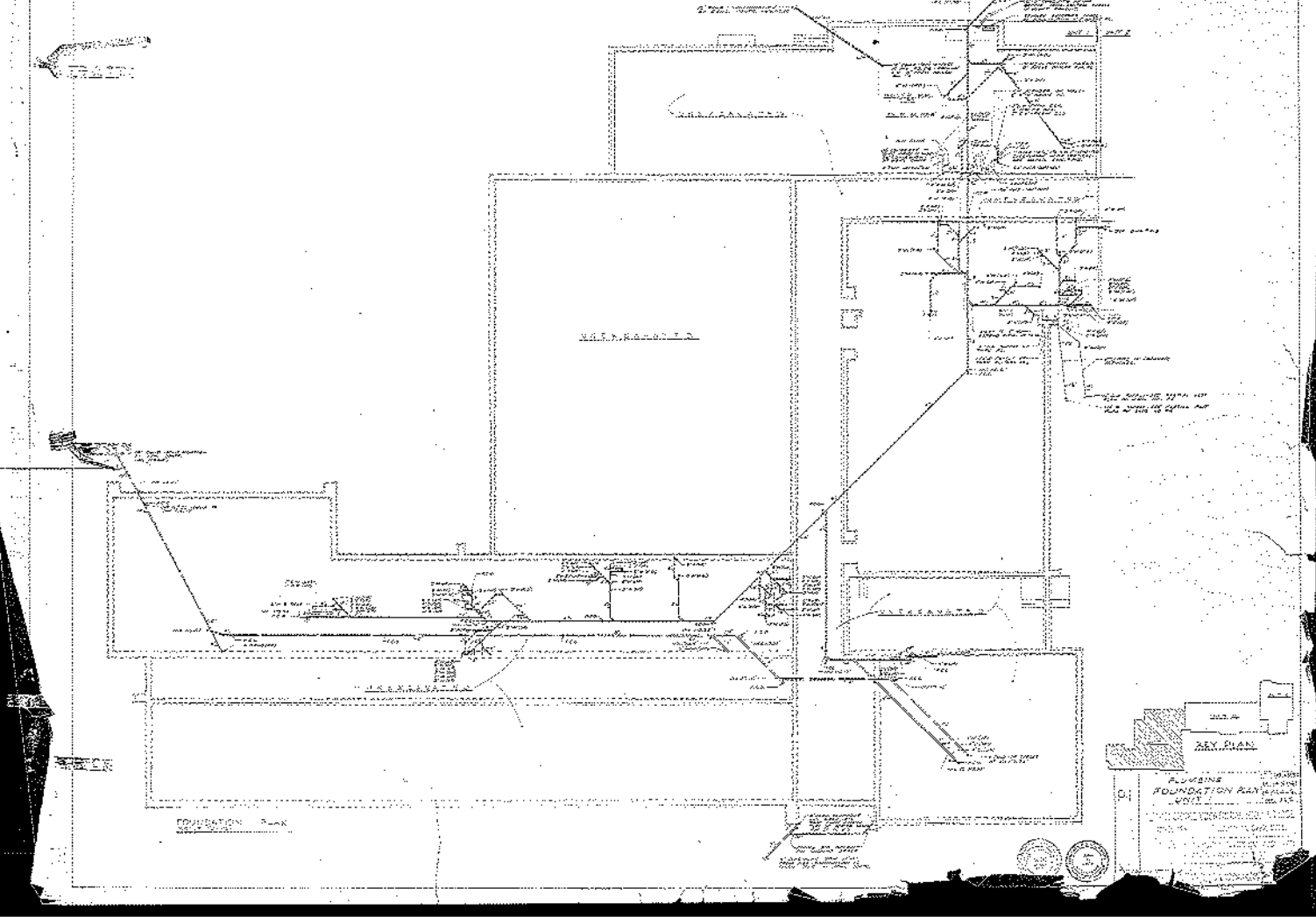
UNIT-1

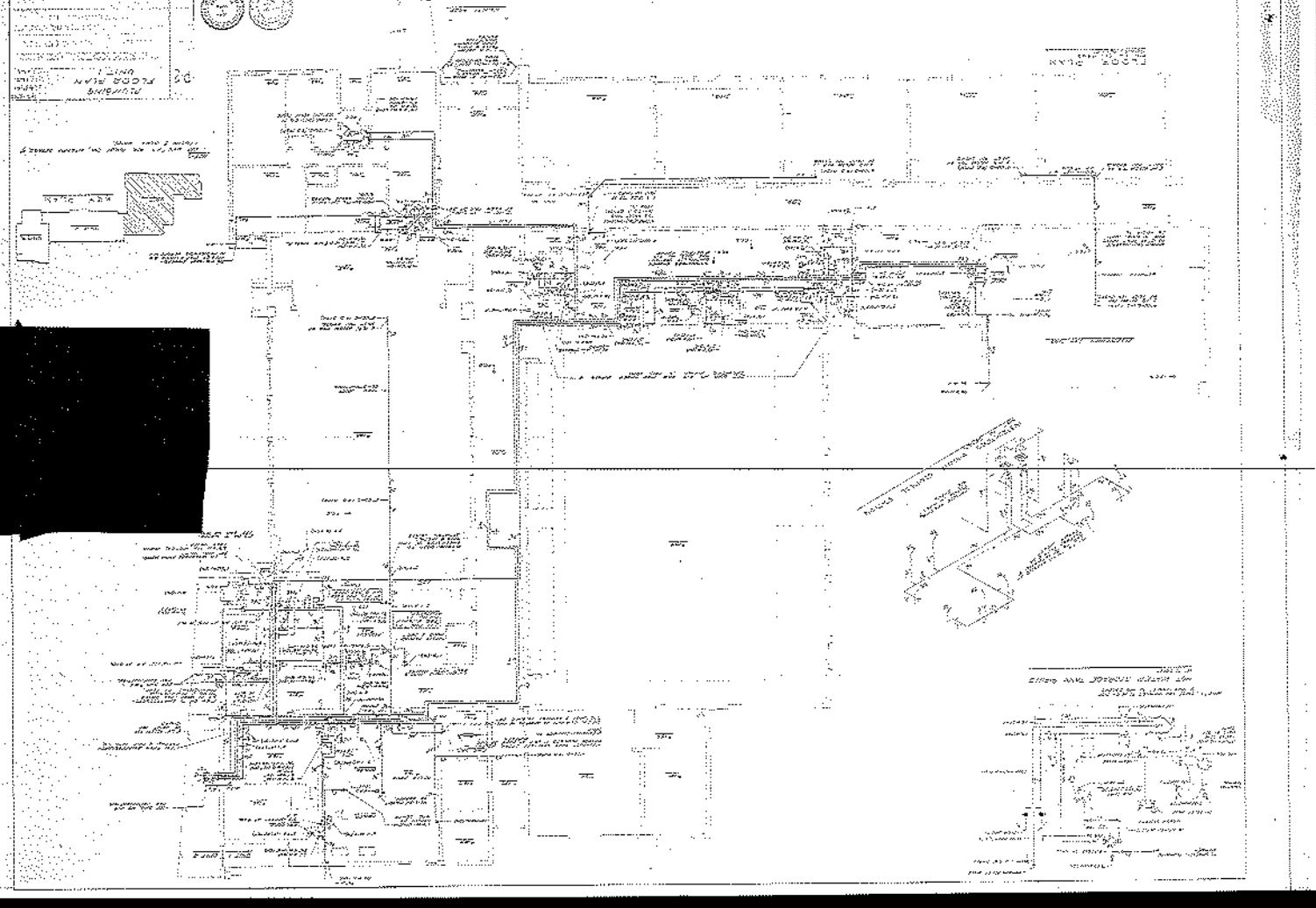


1	100	100	100	100
2	100	100	100	100
3	100	100	100	100
4	100	100	100	100
5	100	100	100	100
6	100	100	100	100
7	100	100	100	100
8	100	100	100	100
9	100	100	100	100
10	100	100	100	100
11	100	100	100	100
12	100	100	100	100
13	100	100	100	100
14	100	100	100	100
15	100	100	100	100
16	100	100	100	100
17	100	100	100	100
18	100	100	100	100
19	100	100	100	100
20	100	100	100	100
21	100	100	100	100
22	100	100	100	100
23	100	100	100	100
24	100	100	100	100
25	100	100	100	100
26	100	100	100	100
27	100	100	100	100
28	100	100	100	100
29	100	100	100	100
30	100	100	100	100
31	100	100	100	100
32	100	100	100	100
33	100	100	100	100
34	100	100	100	100
35	100	100	100	100
36	100	100	100	100
37	100	100	100	100
38	100	100	100	100
39	100	100	100	100
40	100	100	100	100
41	100	100	100	100
42	100	100	100	100
43	100	100	100	100
44	100	100	100	100
45	100	100	100	100
46	100	100	100	100
47	100	100	100	100
48	100	100	100	100
49	100	100	100	100
50	100	100	100	100
51	100	100	100	100
52	100	100	100	100
53	100	100	100	100
54	100	100	100	100
55	100	100	100	100
56	100	100	100	100
57	100	100	100	100
58	100	100	100	100
59	100	100	100	100
60	100	100	100	100
61	100	100	100	100
62	100	100	100	100
63	100	100	100	100
64	100	100	100	100
65	100	100	100	100
66	100	100	100	100
67	100	100	100	100
68	100	100	100	100
69	100	100	100	100
70	100	100	100	100
71	100	100	100	100
72	100	100	100	100
73	100	100	100	100
74	100	100	100	100
75	100	100	100	100
76	100	100	100	100
77	100	100	100	100
78	100	100	100	100
79	100	100	100	100
80	100	100	100	100
81	100	100	100	100
82	100	100	100	100
83	100	100	100	100
84	100	100	100	100
85	100	100	100	100
86	100	100	100	100
87	100	100	100	100
88	100	100	100	100
89	100	100	100	100
90	100	100	100	100
91	100	100	100	100
92	100	100	100	100
93	100	100	100	100
94	100	100	100	100
95	100	100	100	100
96	100	100	100	100
97	100	100	100	100
98	100	100	100	100
99	100	100	100	100
100	100	100	100	100

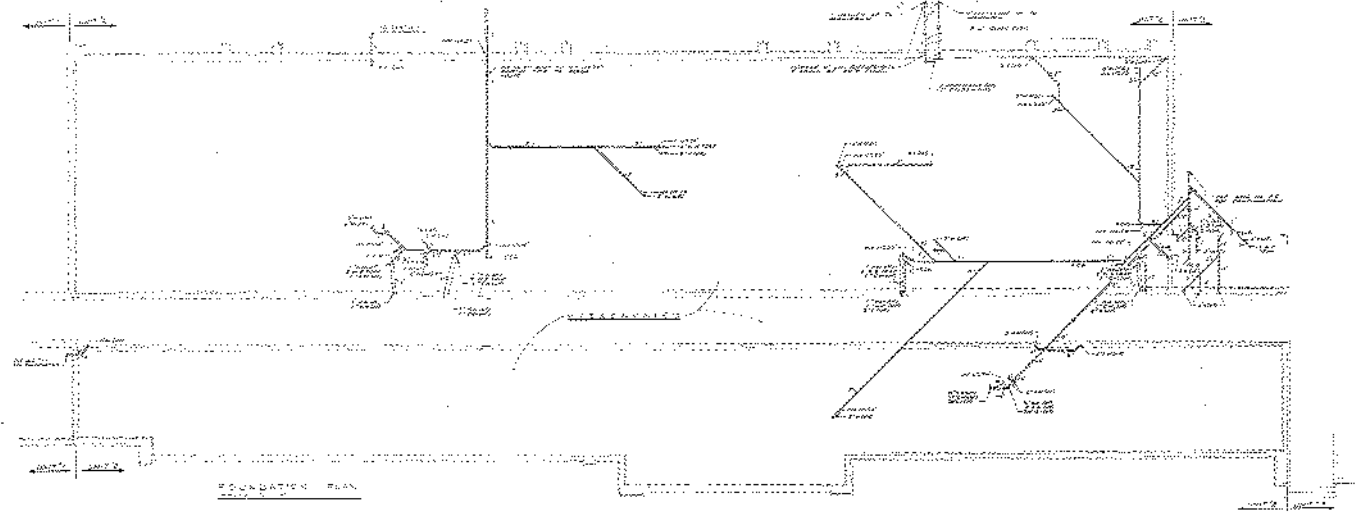


VENOTRAB  
 INSTITUTO VENEZOLANO DE NORMALIZACIÓN  
 UNIT-3









Professional Engineer's Seal and Title Block. The seal is circular and contains the text "PROFESSIONAL ENGINEER" and "STATE OF CALIFORNIA". The title block contains the following information:

PROJECT: [Illegible]

FOUNDATION PLAN

DATE: [Illegible]

SCALE: [Illegible]

DESIGNED BY: [Illegible]

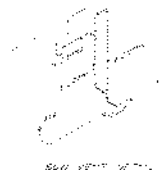
CHECKED BY: [Illegible]

APPROVED BY: [Illegible]

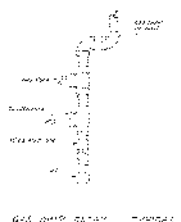
REGISTERED PROFESSIONAL ENGINEER

NO. [Illegible]

EXPIRES [Illegible]



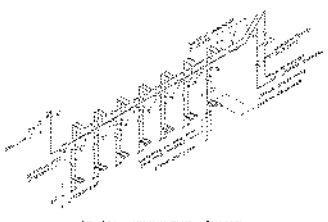
Small schematic diagram caption.



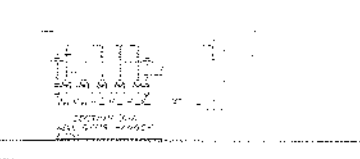
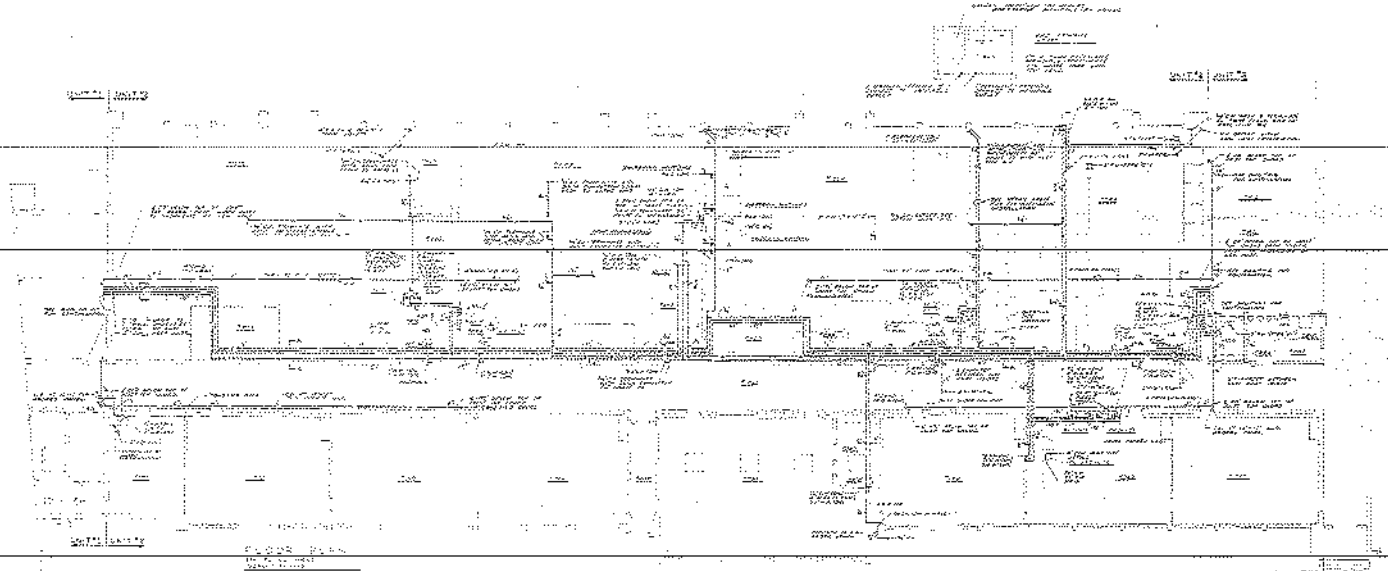
Small schematic diagram caption.



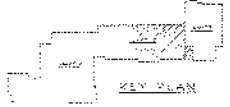
Small schematic diagram caption.



Small schematic diagram caption.



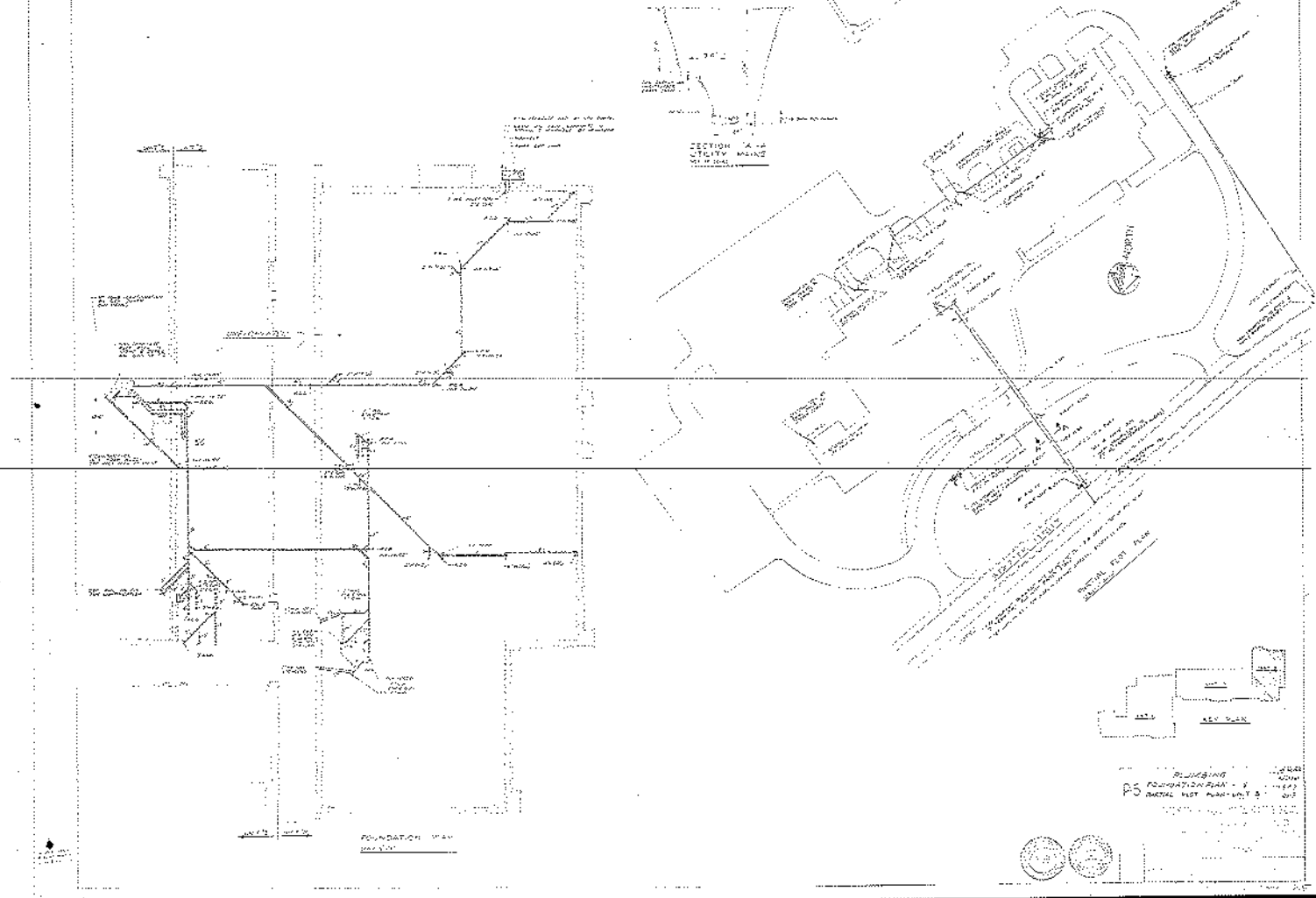
Small text block in the bottom left corner, possibly a note or legend.

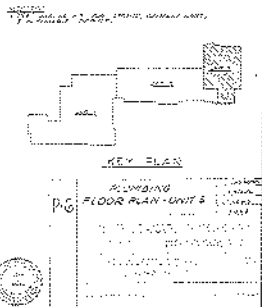
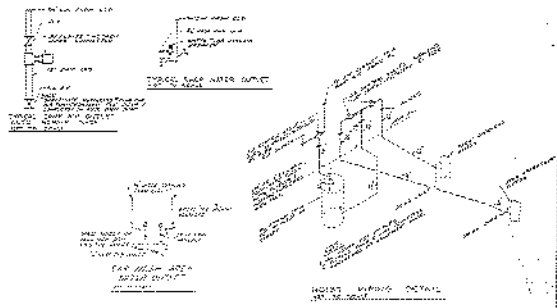
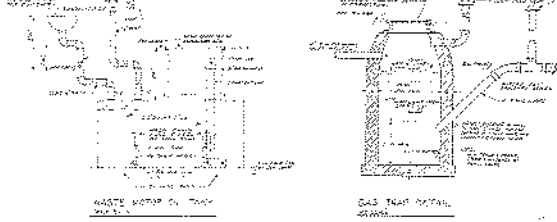
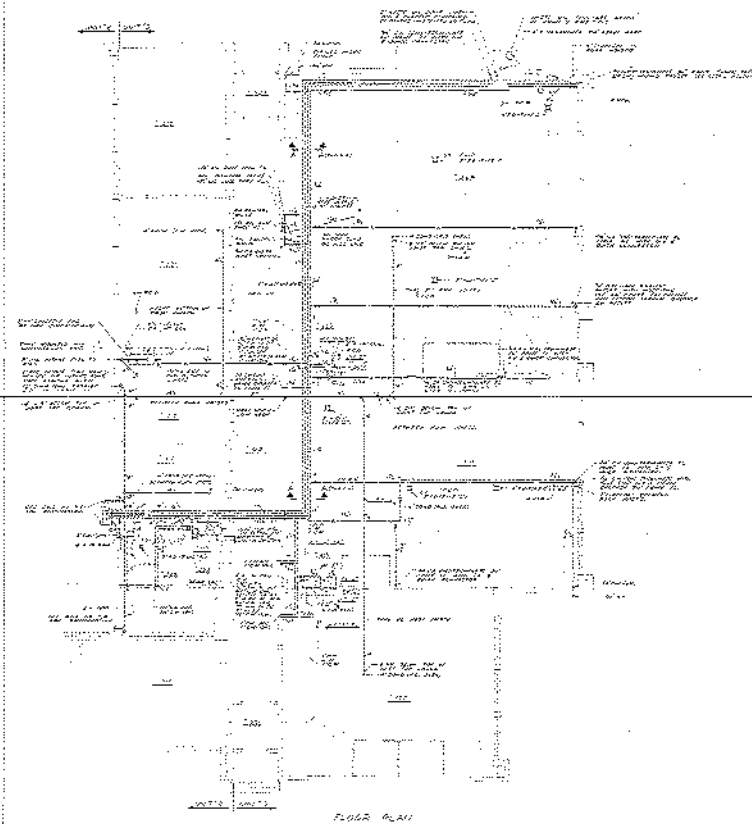


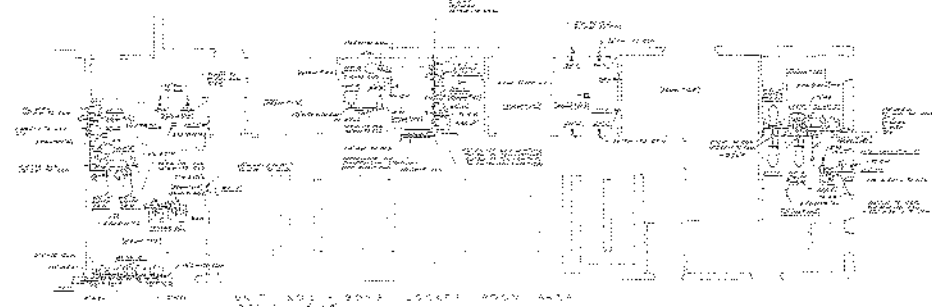
KEY PLAN



Small text block in the bottom right corner, possibly a title or reference information.

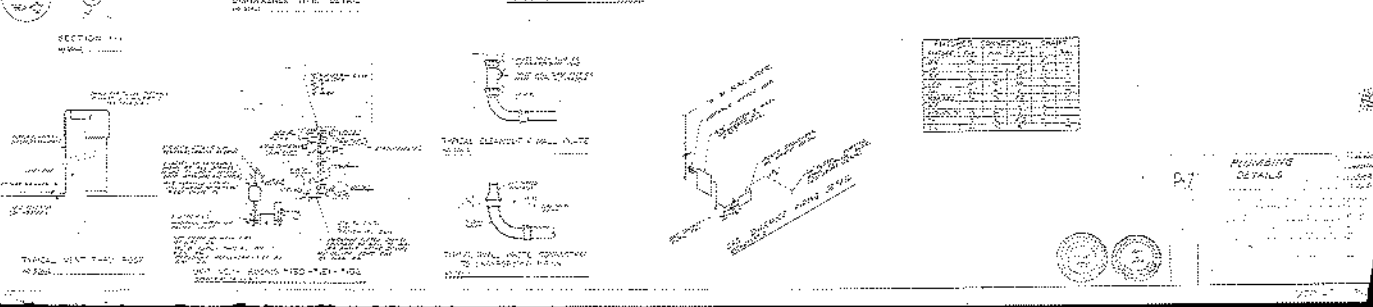
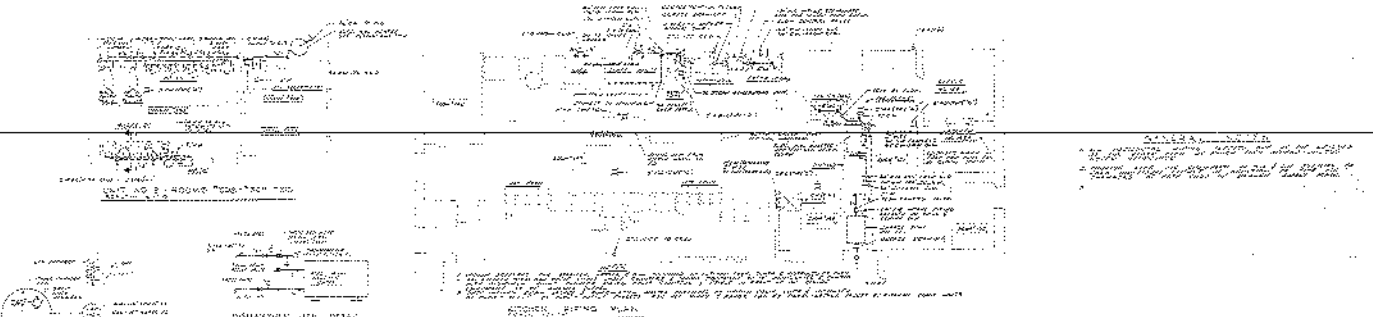






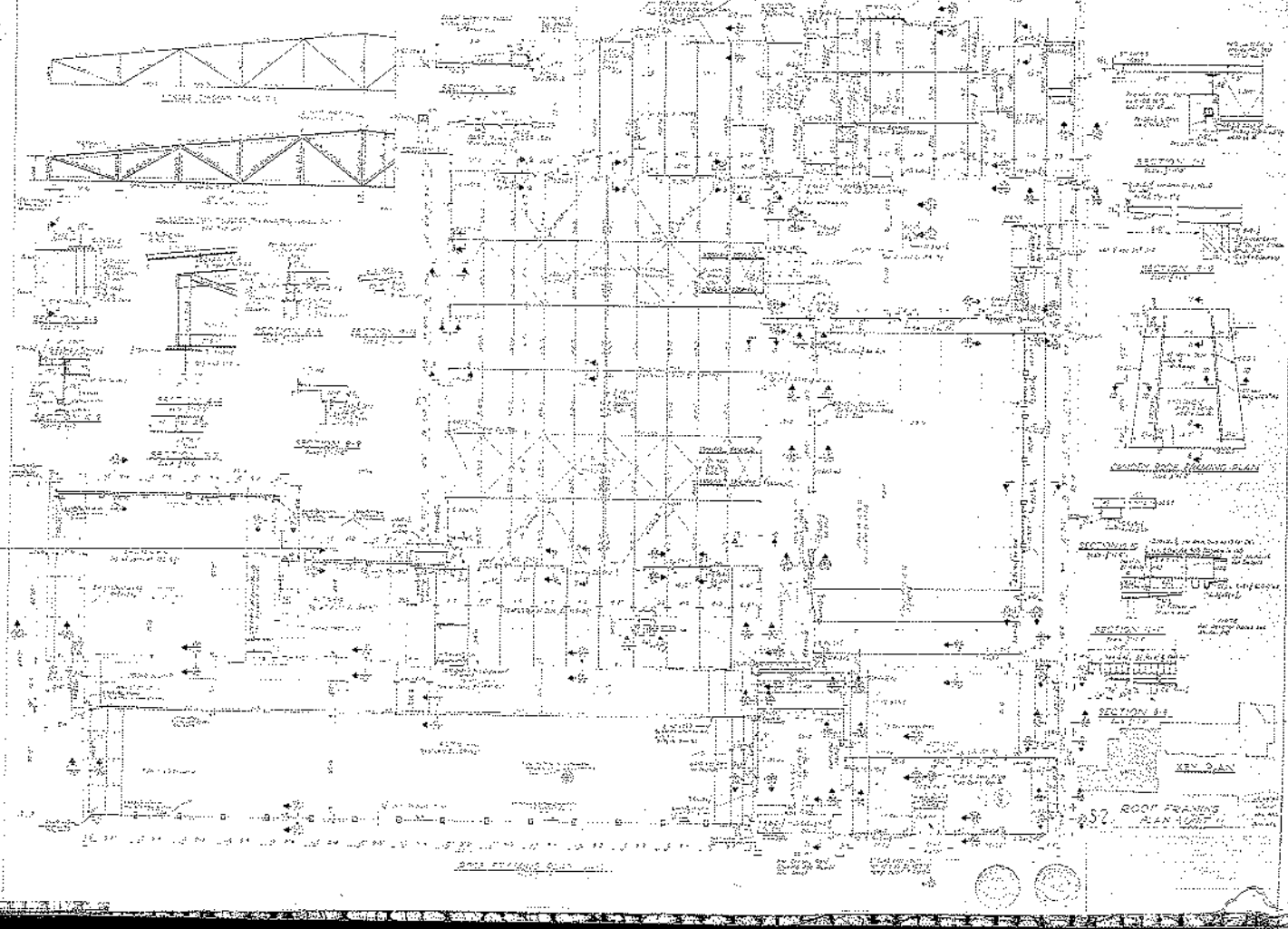
C. E. G. C. 74 13

1-10	2nd FLOOR PLAN (PART)
1-11	2nd FLOOR PLAN (PART)
1-12	2nd FLOOR PLAN (PART)
1-13	2nd FLOOR PLAN (PART)
1-14	2nd FLOOR PLAN (PART)
1-15	2nd FLOOR PLAN (PART)
1-16	2nd FLOOR PLAN (PART)
1-17	2nd FLOOR PLAN (PART)
1-18	2nd FLOOR PLAN (PART)
1-19	2nd FLOOR PLAN (PART)
1-20	2nd FLOOR PLAN (PART)
1-21	2nd FLOOR PLAN (PART)
1-22	2nd FLOOR PLAN (PART)
1-23	2nd FLOOR PLAN (PART)
1-24	2nd FLOOR PLAN (PART)
1-25	2nd FLOOR PLAN (PART)
1-26	2nd FLOOR PLAN (PART)
1-27	2nd FLOOR PLAN (PART)
1-28	2nd FLOOR PLAN (PART)
1-29	2nd FLOOR PLAN (PART)
1-30	2nd FLOOR PLAN (PART)
1-31	2nd FLOOR PLAN (PART)
1-32	2nd FLOOR PLAN (PART)
1-33	2nd FLOOR PLAN (PART)
1-34	2nd FLOOR PLAN (PART)
1-35	2nd FLOOR PLAN (PART)
1-36	2nd FLOOR PLAN (PART)
1-37	2nd FLOOR PLAN (PART)
1-38	2nd FLOOR PLAN (PART)
1-39	2nd FLOOR PLAN (PART)
1-40	2nd FLOOR PLAN (PART)
1-41	2nd FLOOR PLAN (PART)
1-42	2nd FLOOR PLAN (PART)
1-43	2nd FLOOR PLAN (PART)
1-44	2nd FLOOR PLAN (PART)
1-45	2nd FLOOR PLAN (PART)
1-46	2nd FLOOR PLAN (PART)
1-47	2nd FLOOR PLAN (PART)
1-48	2nd FLOOR PLAN (PART)
1-49	2nd FLOOR PLAN (PART)
1-50	2nd FLOOR PLAN (PART)
1-51	2nd FLOOR PLAN (PART)
1-52	2nd FLOOR PLAN (PART)
1-53	2nd FLOOR PLAN (PART)
1-54	2nd FLOOR PLAN (PART)
1-55	2nd FLOOR PLAN (PART)
1-56	2nd FLOOR PLAN (PART)
1-57	2nd FLOOR PLAN (PART)
1-58	2nd FLOOR PLAN (PART)
1-59	2nd FLOOR PLAN (PART)
1-60	2nd FLOOR PLAN (PART)
1-61	2nd FLOOR PLAN (PART)
1-62	2nd FLOOR PLAN (PART)
1-63	2nd FLOOR PLAN (PART)
1-64	2nd FLOOR PLAN (PART)
1-65	2nd FLOOR PLAN (PART)
1-66	2nd FLOOR PLAN (PART)
1-67	2nd FLOOR PLAN (PART)
1-68	2nd FLOOR PLAN (PART)
1-69	2nd FLOOR PLAN (PART)
1-70	2nd FLOOR PLAN (PART)
1-71	2nd FLOOR PLAN (PART)
1-72	2nd FLOOR PLAN (PART)
1-73	2nd FLOOR PLAN (PART)
1-74	2nd FLOOR PLAN (PART)
1-75	2nd FLOOR PLAN (PART)
1-76	2nd FLOOR PLAN (PART)
1-77	2nd FLOOR PLAN (PART)
1-78	2nd FLOOR PLAN (PART)
1-79	2nd FLOOR PLAN (PART)
1-80	2nd FLOOR PLAN (PART)
1-81	2nd FLOOR PLAN (PART)
1-82	2nd FLOOR PLAN (PART)
1-83	2nd FLOOR PLAN (PART)
1-84	2nd FLOOR PLAN (PART)
1-85	2nd FLOOR PLAN (PART)
1-86	2nd FLOOR PLAN (PART)
1-87	2nd FLOOR PLAN (PART)
1-88	2nd FLOOR PLAN (PART)
1-89	2nd FLOOR PLAN (PART)
1-90	2nd FLOOR PLAN (PART)
1-91	2nd FLOOR PLAN (PART)
1-92	2nd FLOOR PLAN (PART)
1-93	2nd FLOOR PLAN (PART)
1-94	2nd FLOOR PLAN (PART)
1-95	2nd FLOOR PLAN (PART)
1-96	2nd FLOOR PLAN (PART)
1-97	2nd FLOOR PLAN (PART)
1-98	2nd FLOOR PLAN (PART)
1-99	2nd FLOOR PLAN (PART)
1-100	2nd FLOOR PLAN (PART)

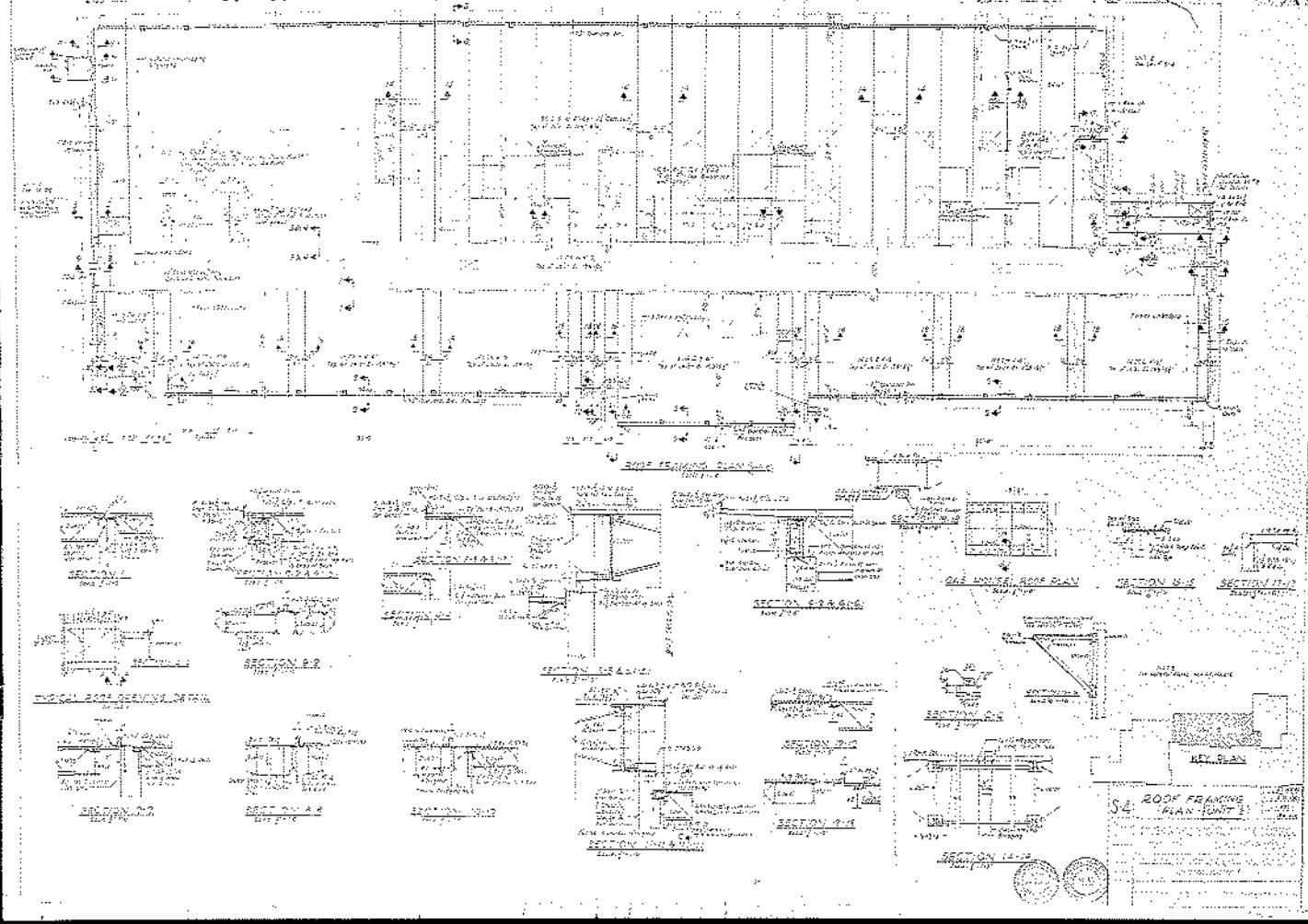












GENERAL NOTES

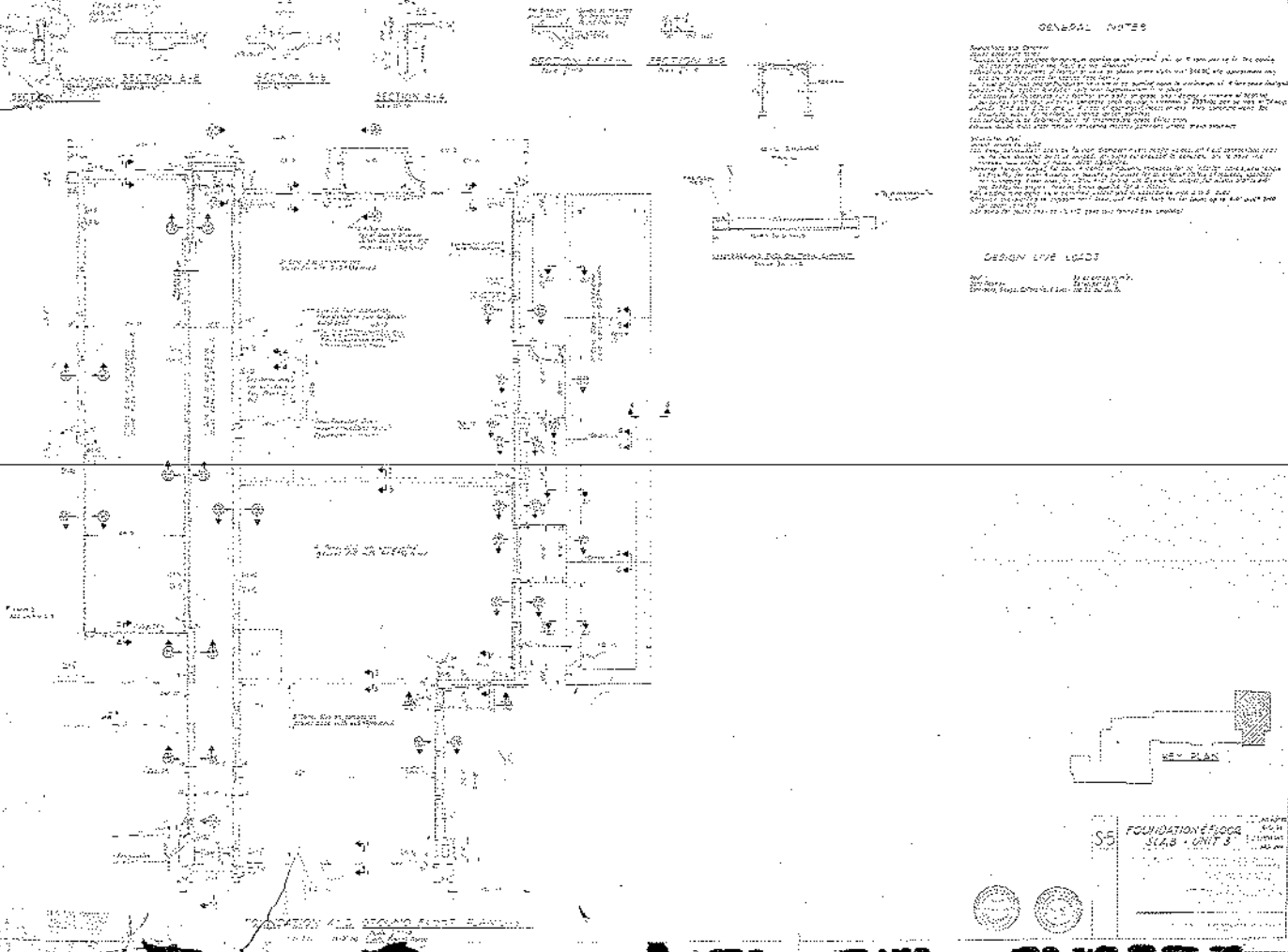
1. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.  
2. ALL WALLS TO BE CONCRETE ON GRADE.  
3. ALL WALLS TO BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINT.  
4. ALL FLOORS TO BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINT.  
5. ALL CEILING TO BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINT.  
6. ALL ROOFING TO BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINT.  
7. ALL ROOFING TO BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINT.  
8. ALL ROOFING TO BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINT.  
9. ALL ROOFING TO BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINT.  
10. ALL ROOFING TO BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINT.

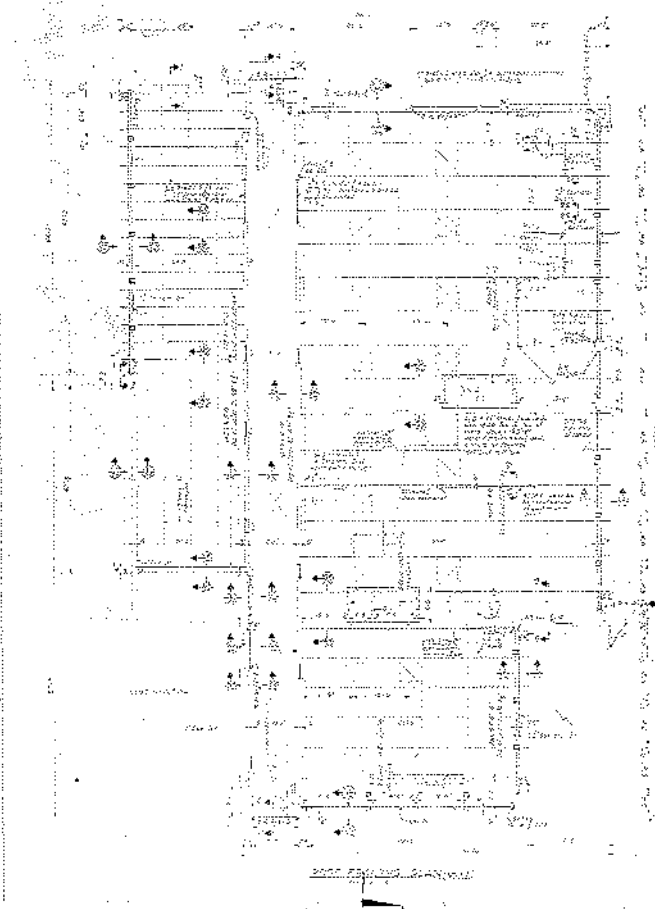
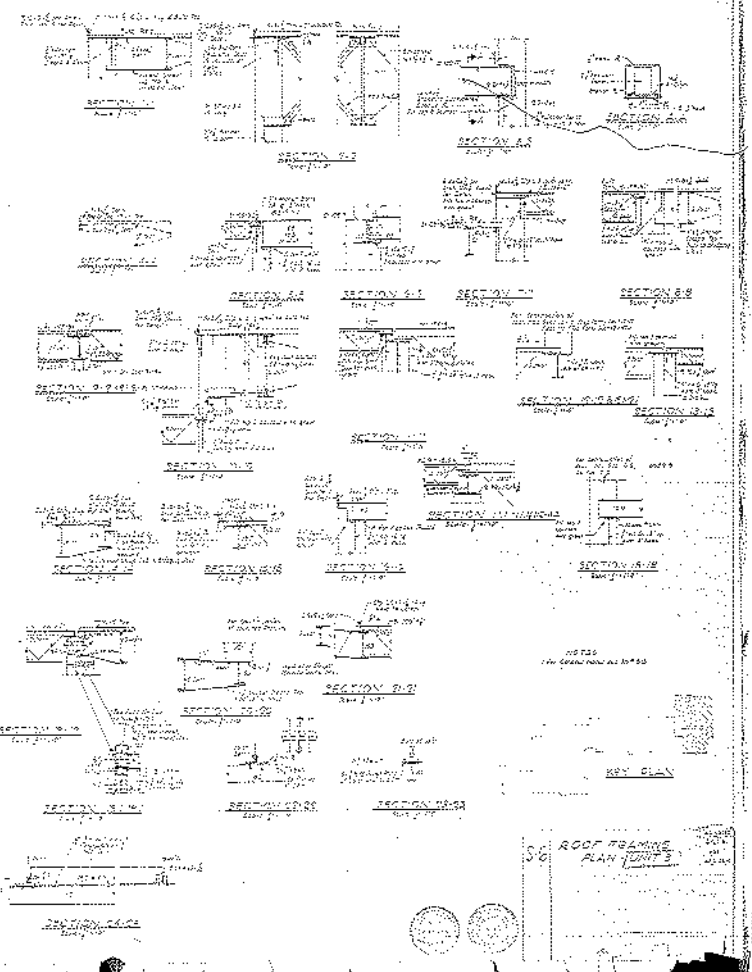
DESIGN LIVE LOADS

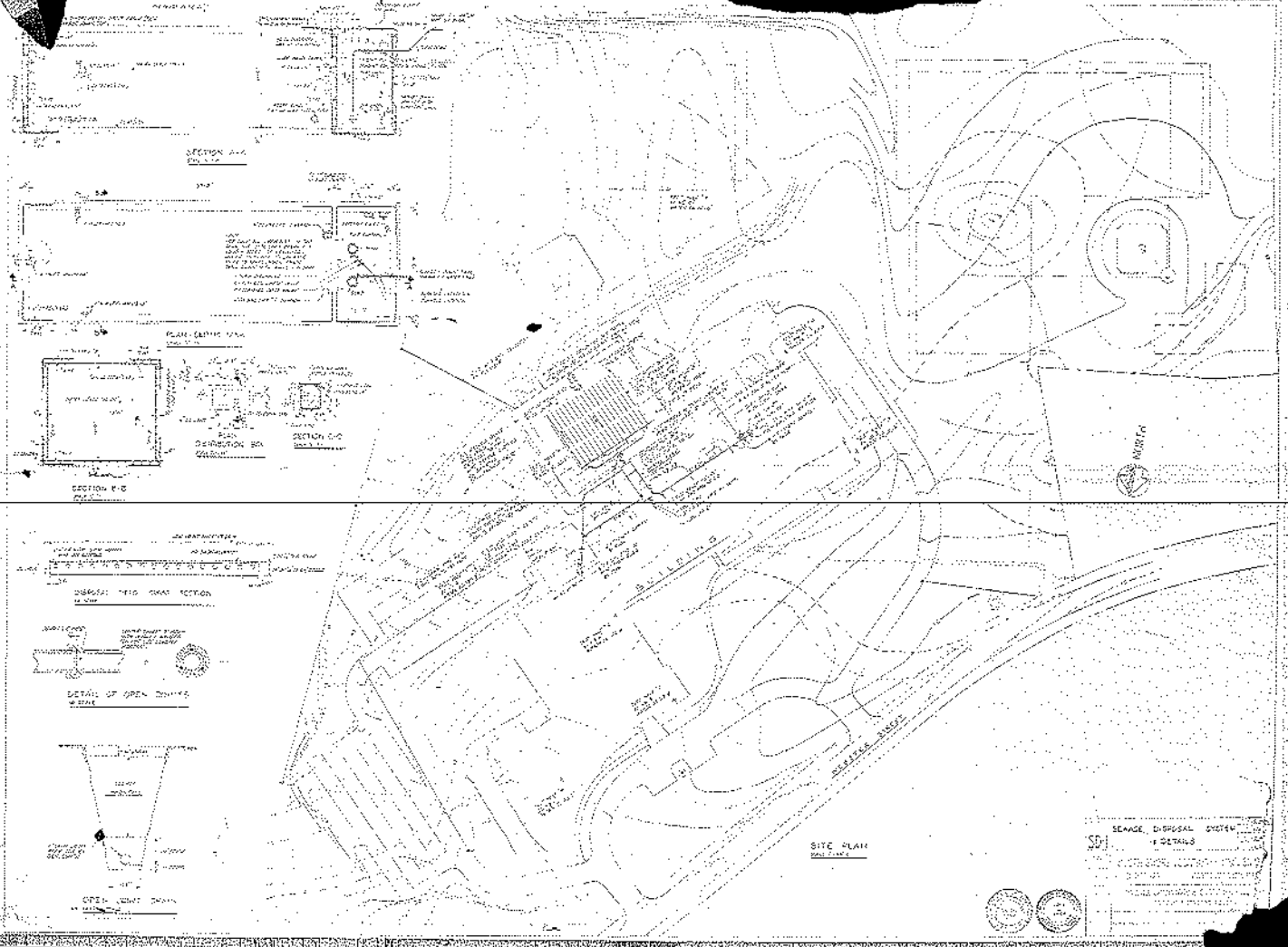
1. ALL FLOORS TO BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINT.  
2. ALL ROOFING TO BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINT.



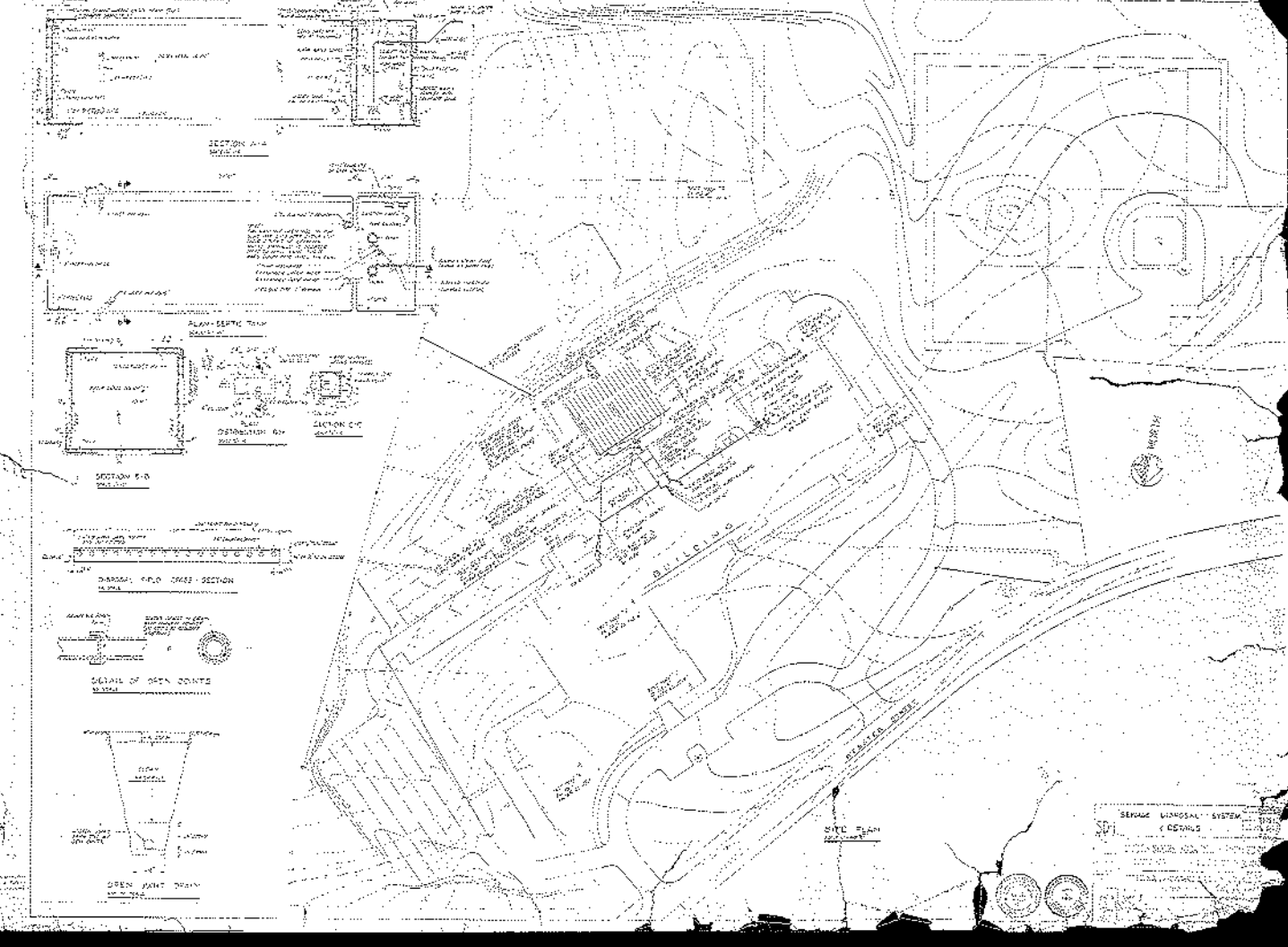
FOUNDATION FLOOR  
SLAB - UNIT 3





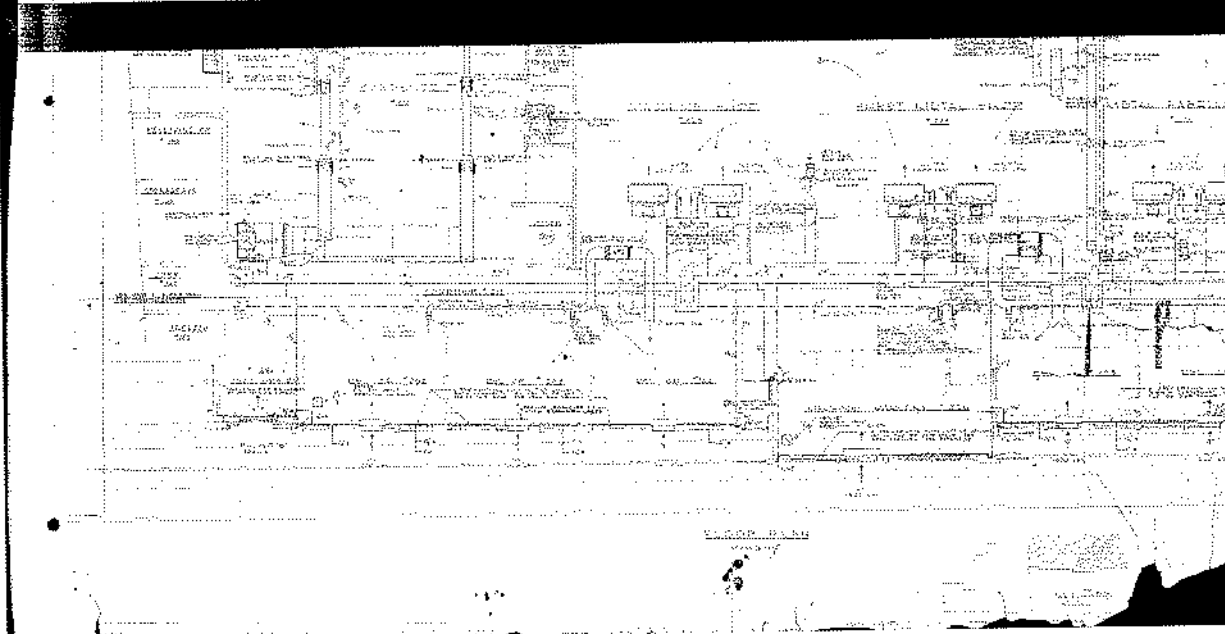
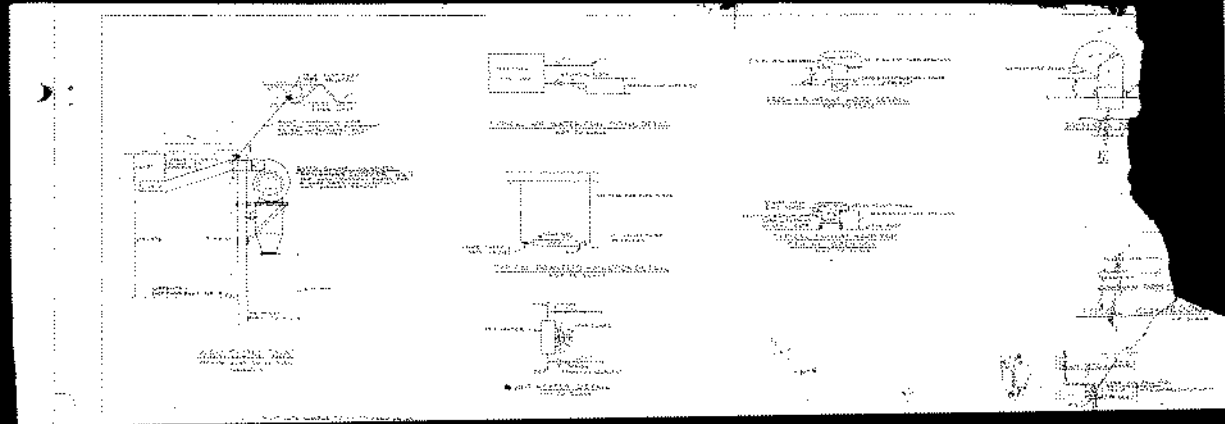


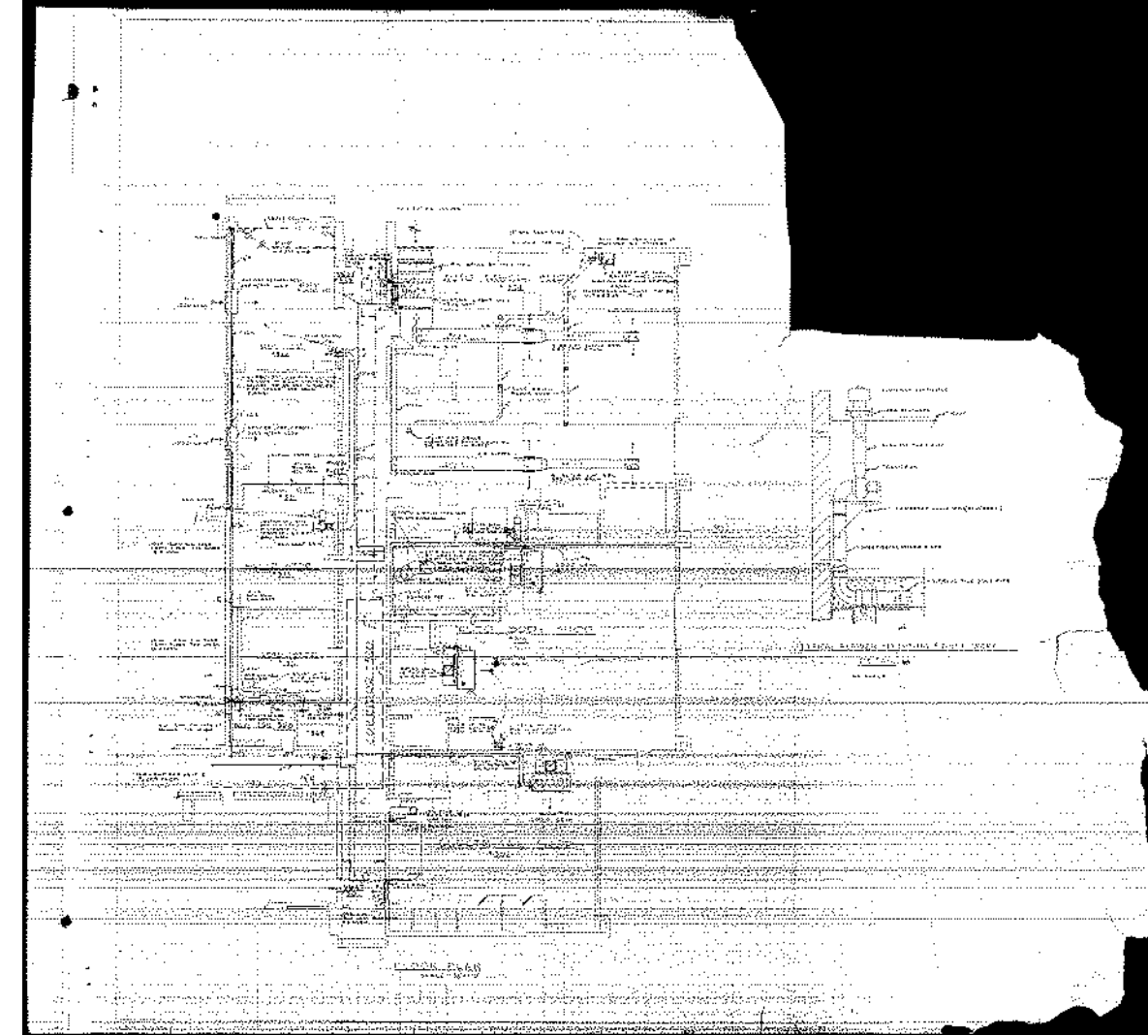


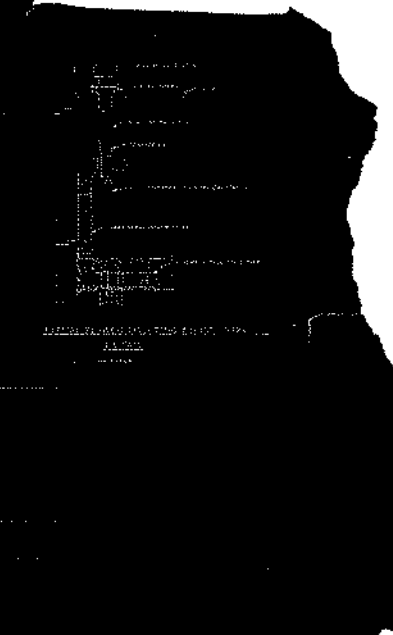
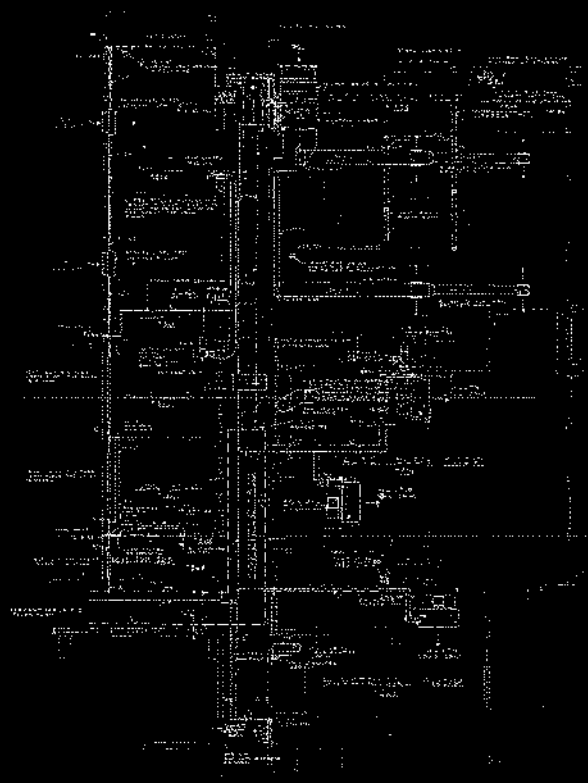


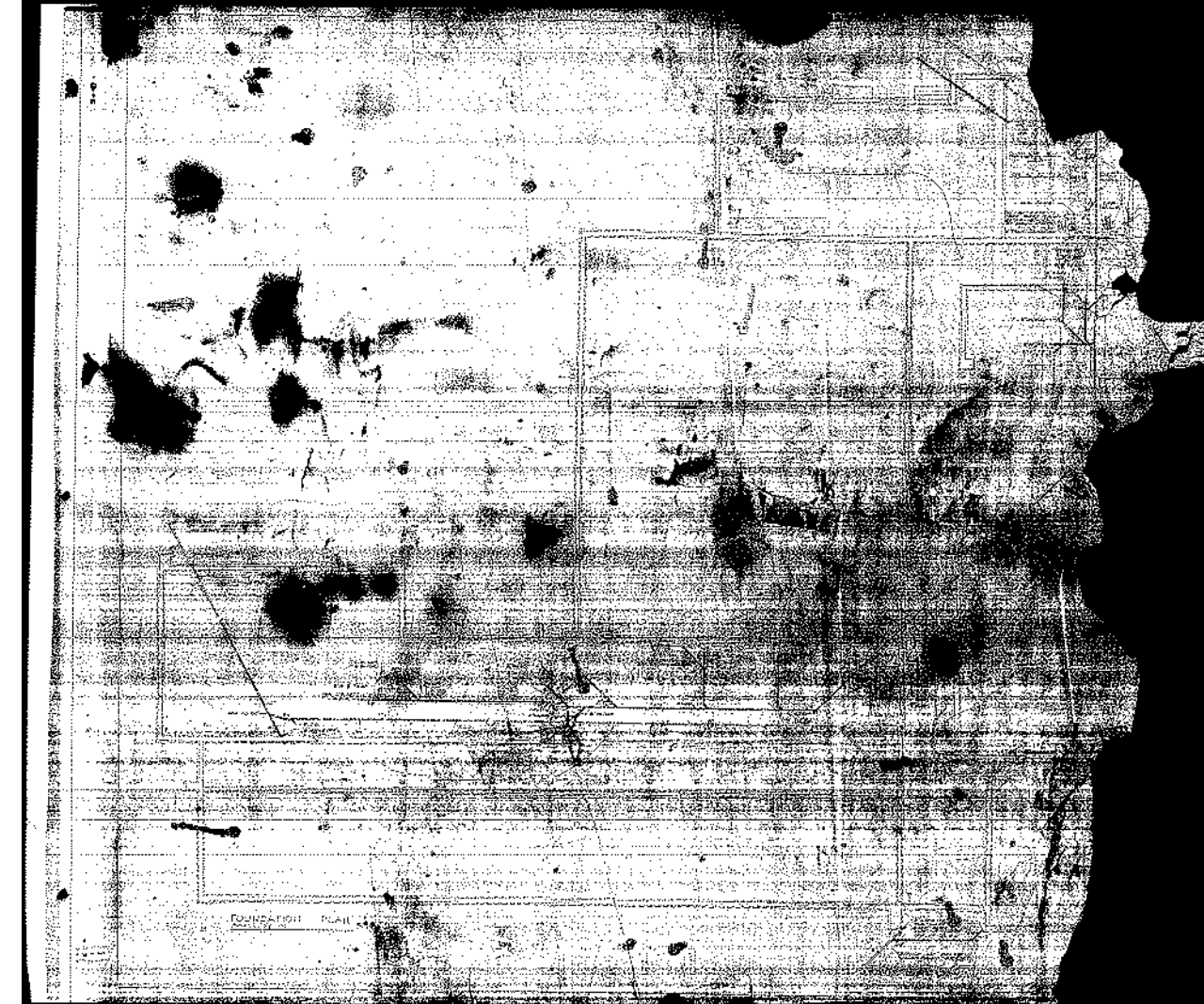
SEWAGE DISPOSAL SYSTEM

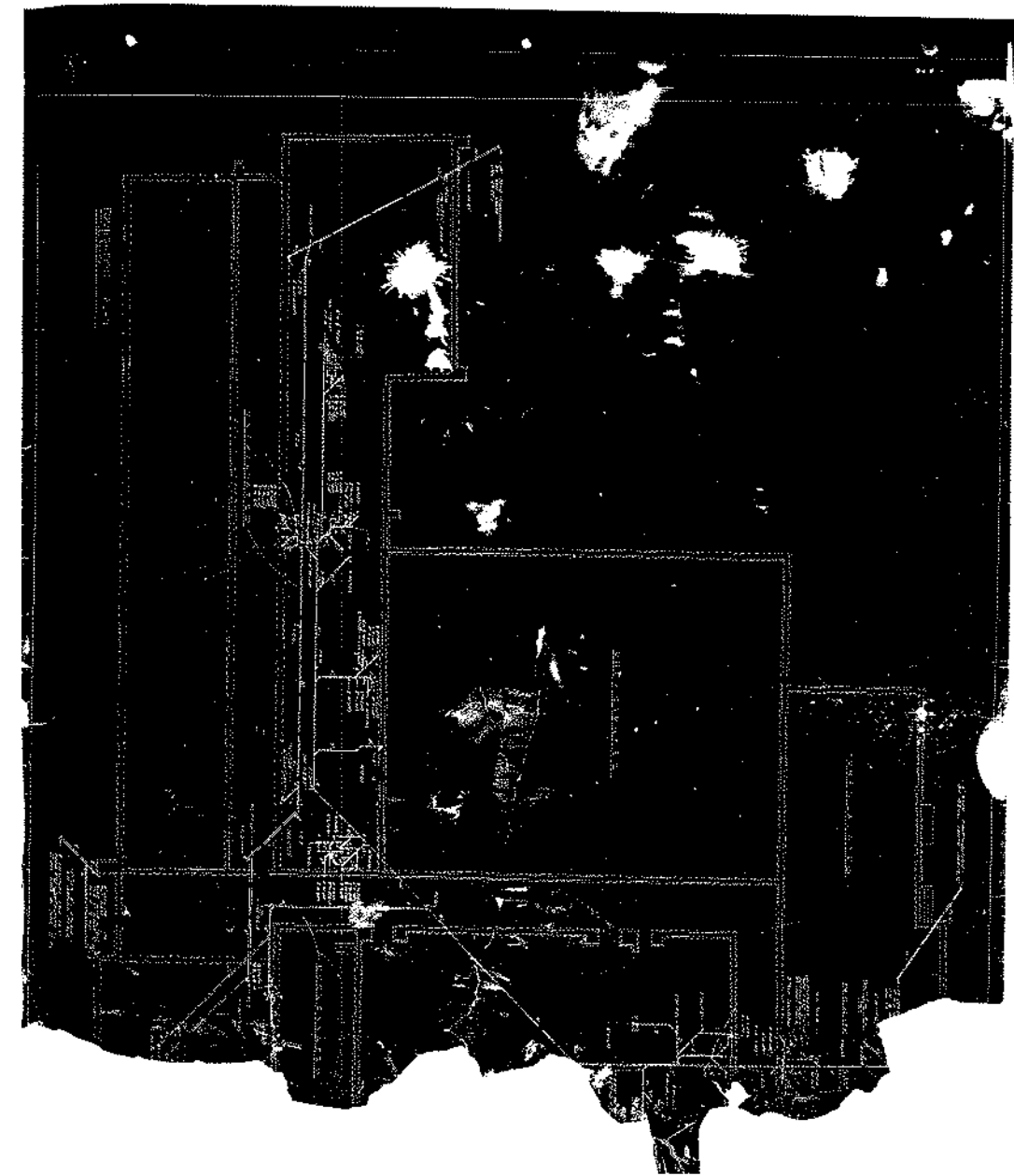
NO.	DESCRIPTION	QTY.
1	SEWER MAIN	1000
2	SEWER BRANCH	500
3	SEWER FITTING	100
4	SEWER MANHOLE	5
5	SEWER PIPING	200
6	SEWER CLEANOUT	10
7	SEWER VALVE	5
8	SEWER TEE	20
9	SEWER ELBOW	30
10	SEWER END FITTING	10
11	SEWER MANHOLE COVER	5
12	SEWER MANHOLE FRAME	5
13	SEWER CLEANOUT COVER	10
14	SEWER VALVE COVER	5
15	SEWER TEE COVER	20
16	SEWER ELBOW COVER	30
17	SEWER END FITTING COVER	10



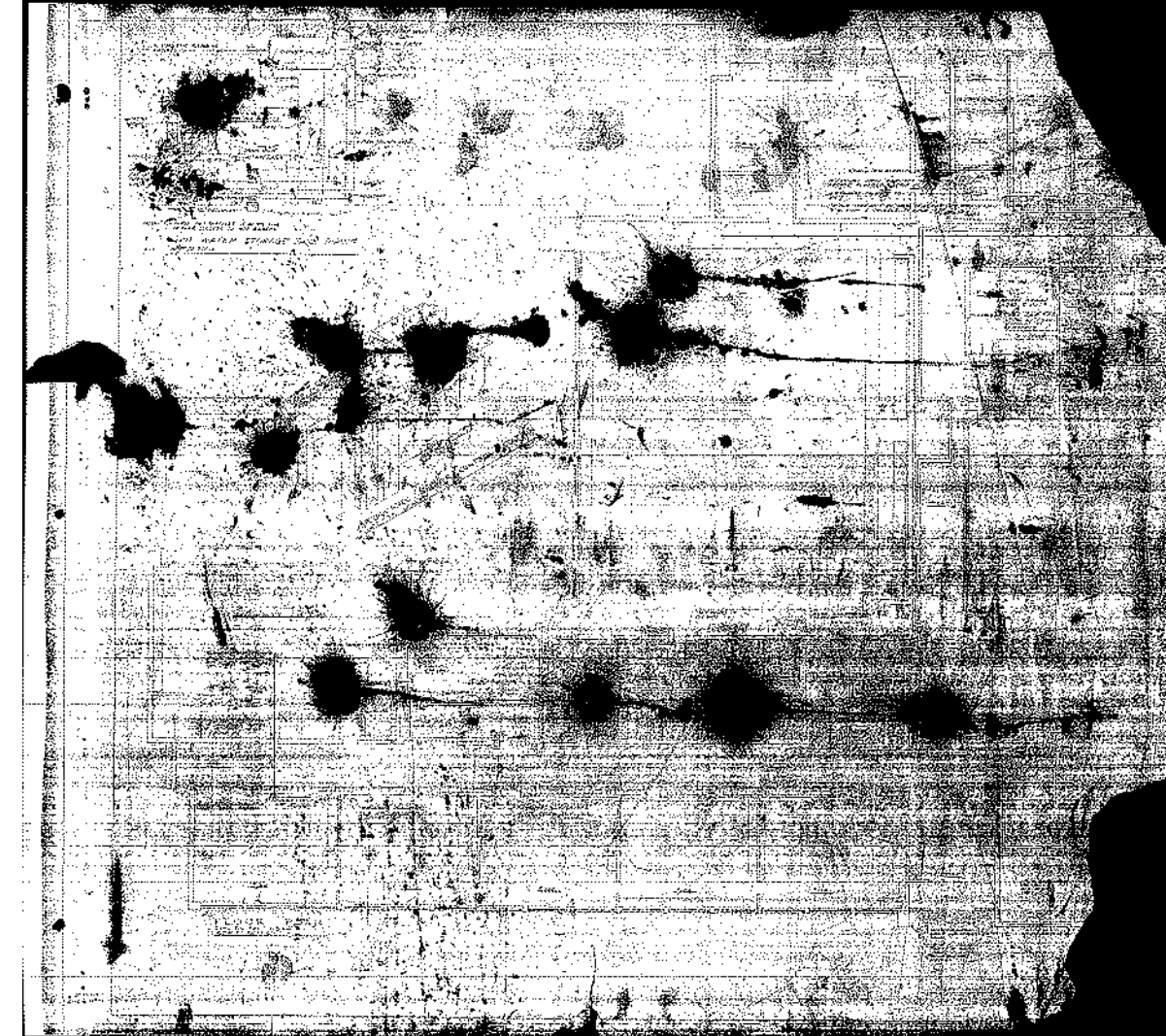




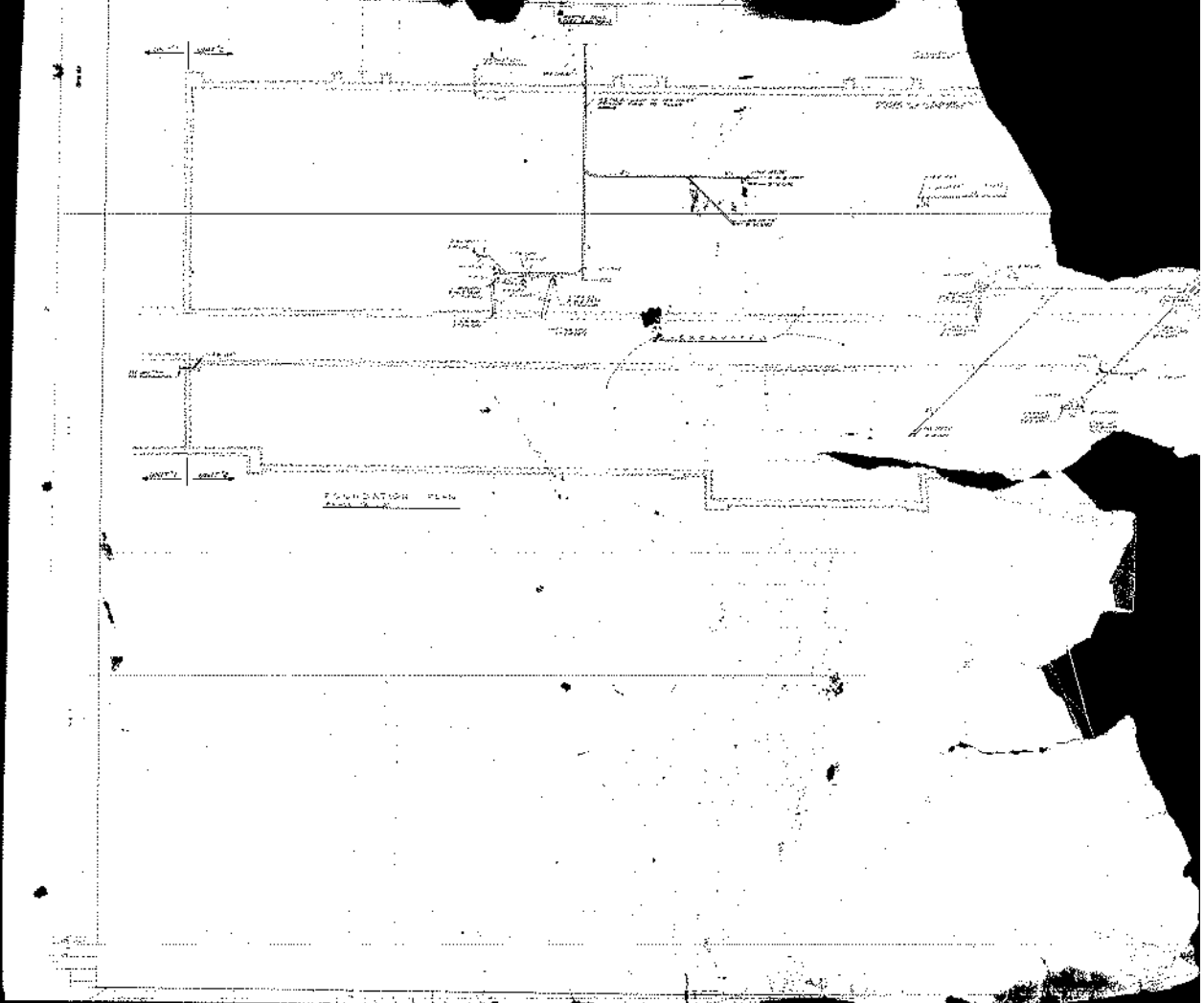


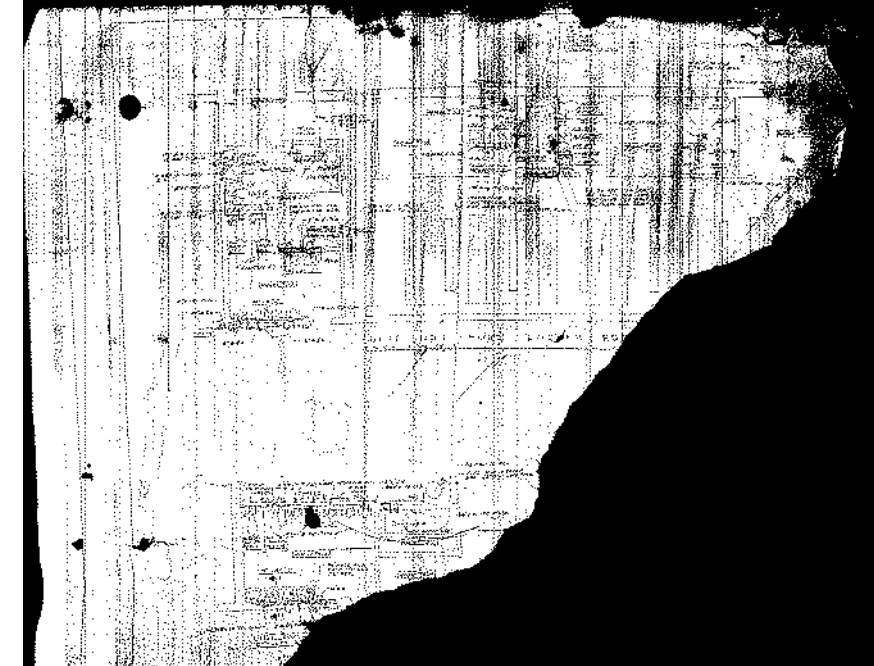


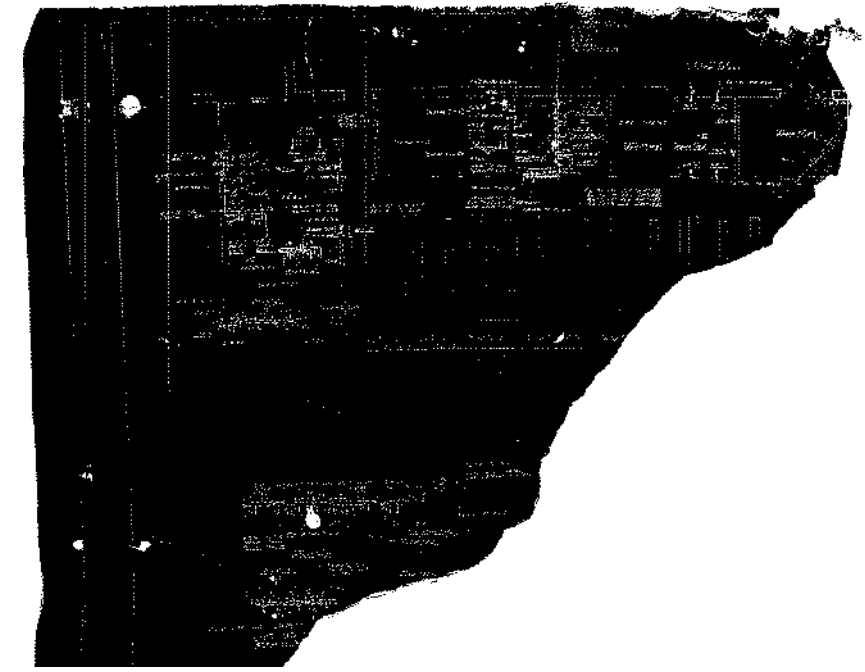


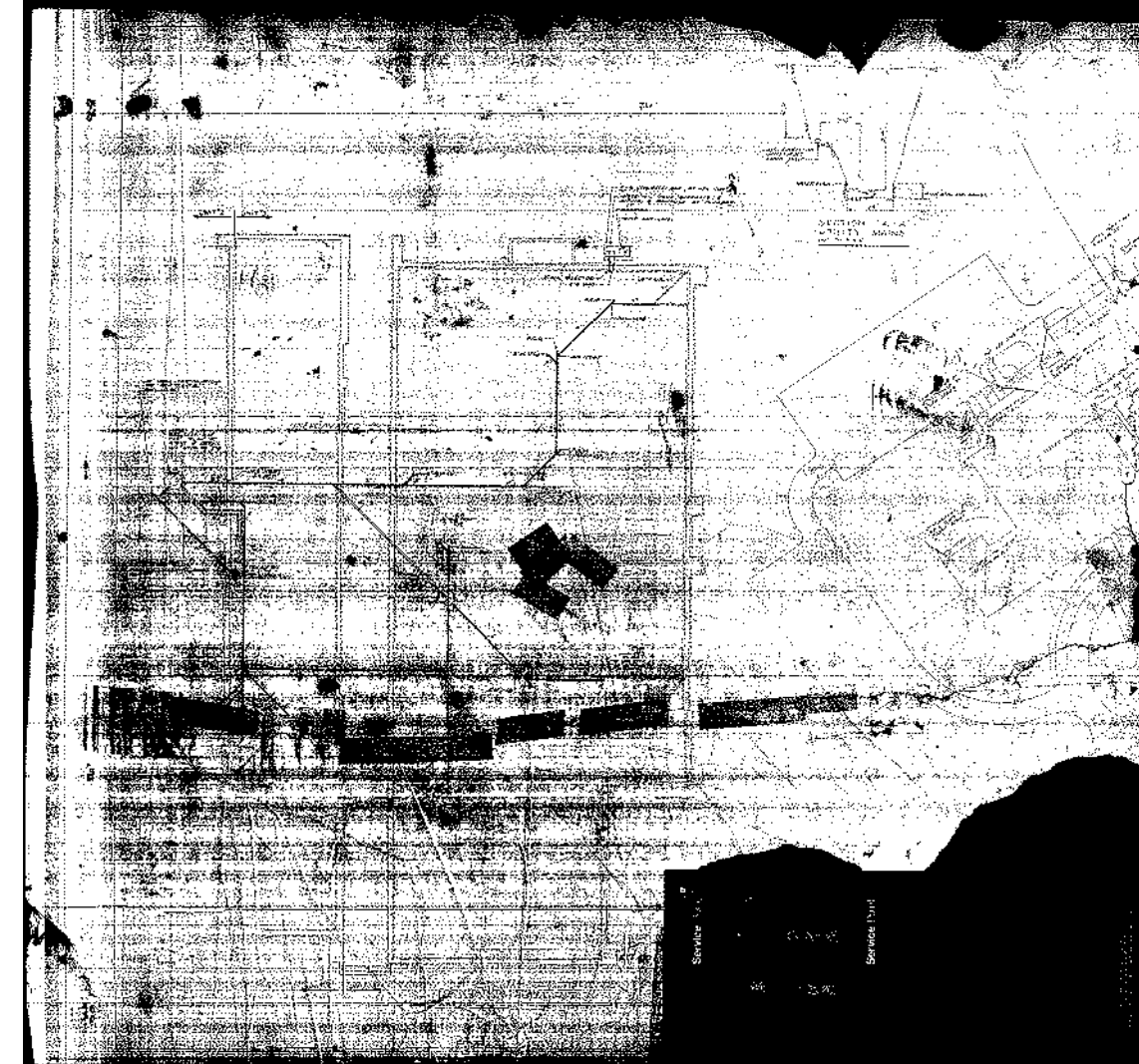




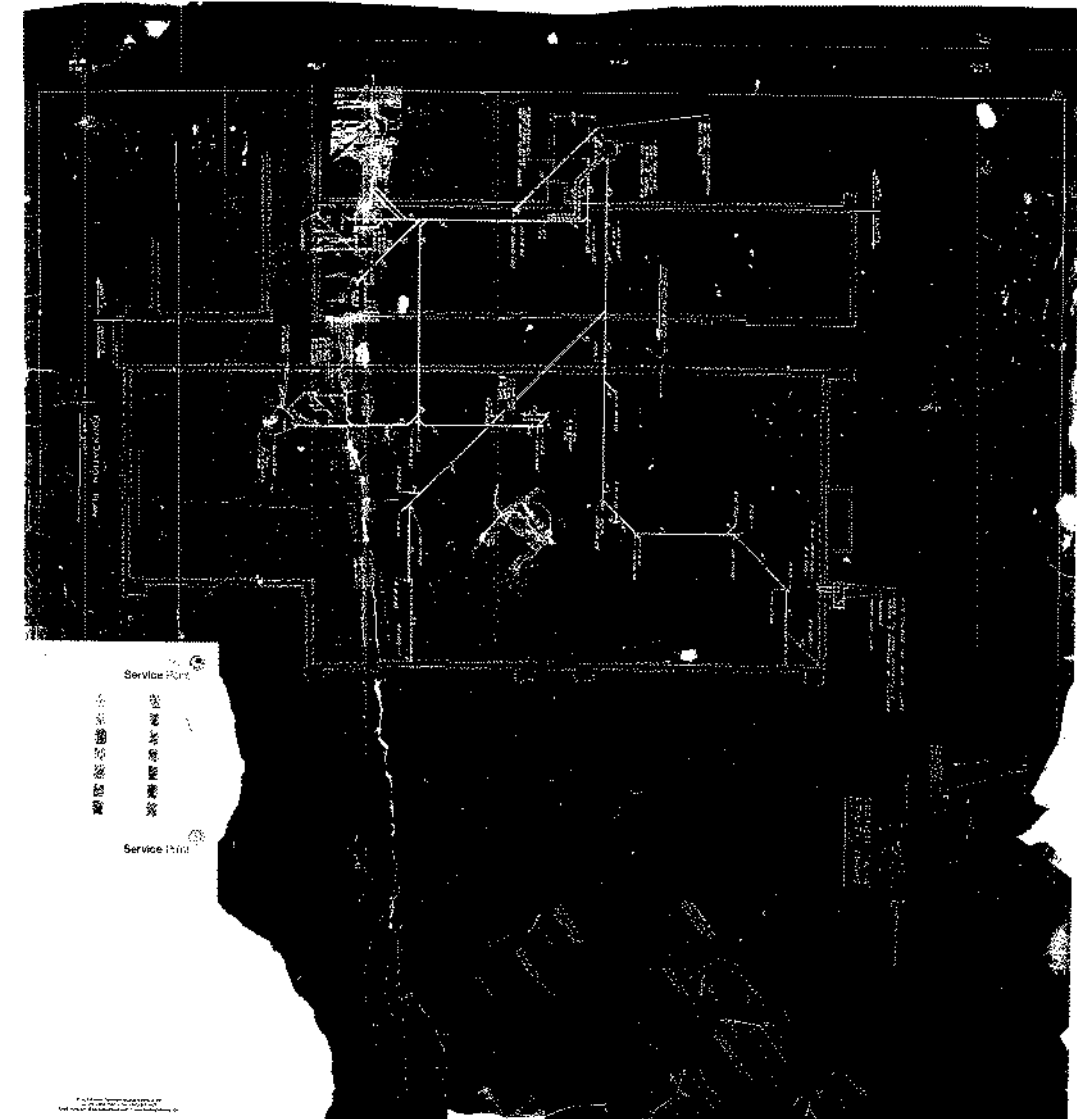


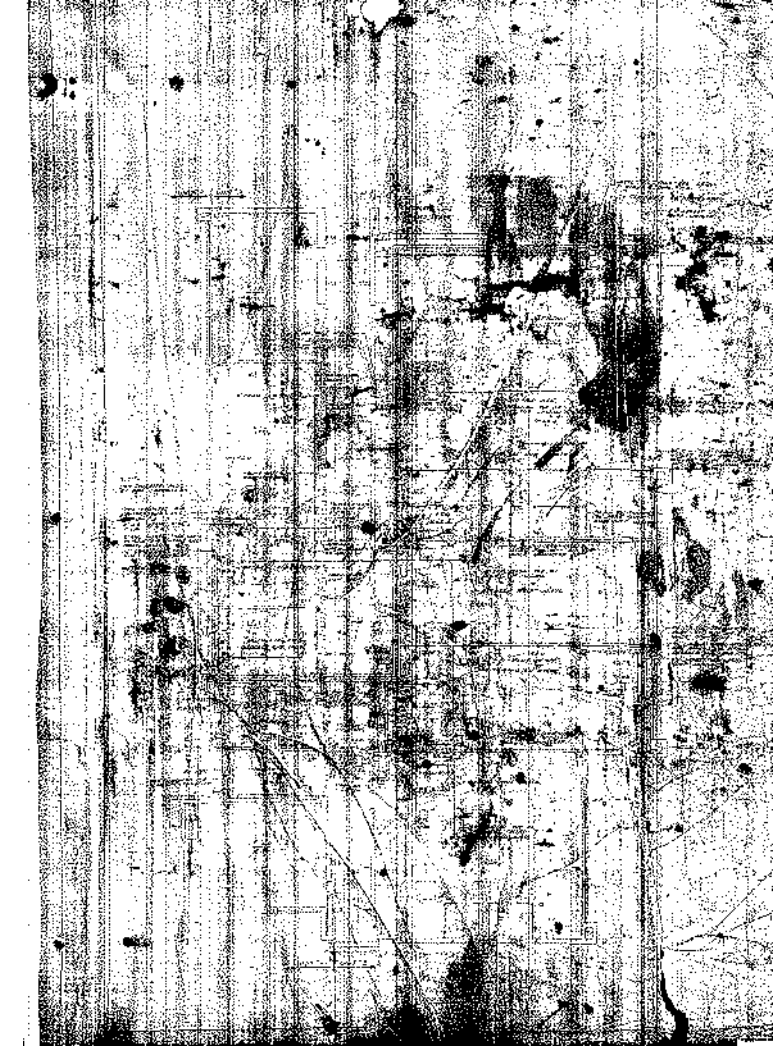




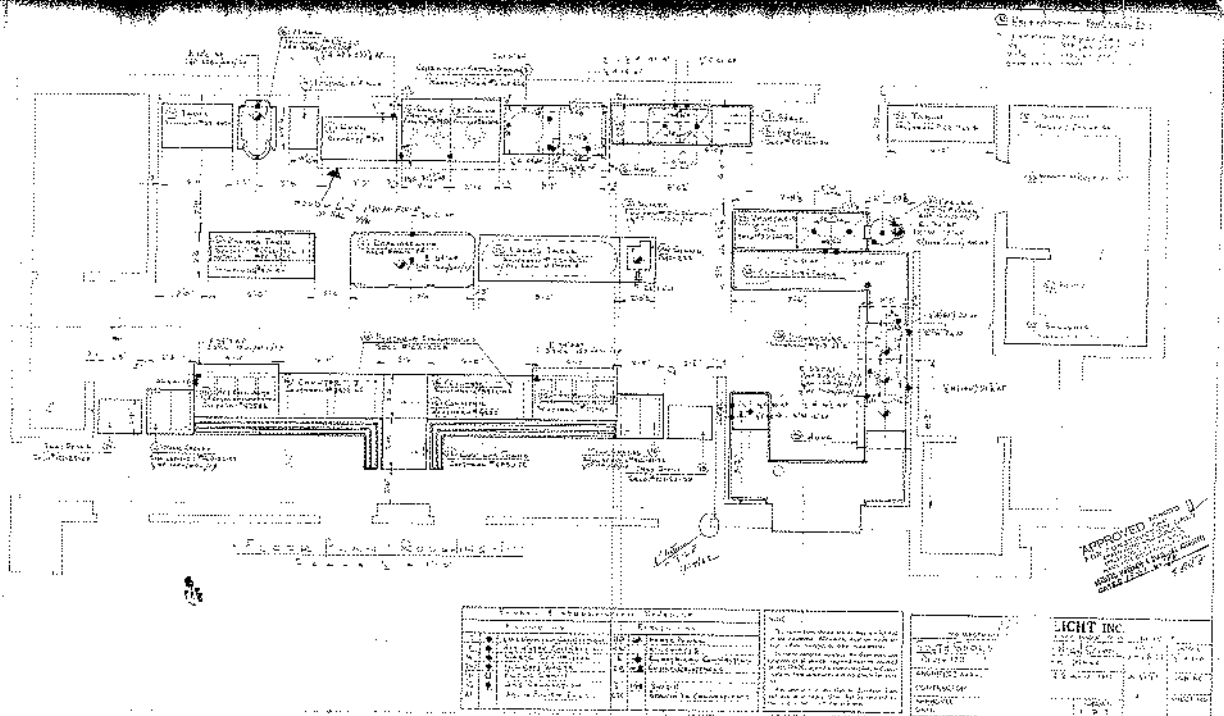








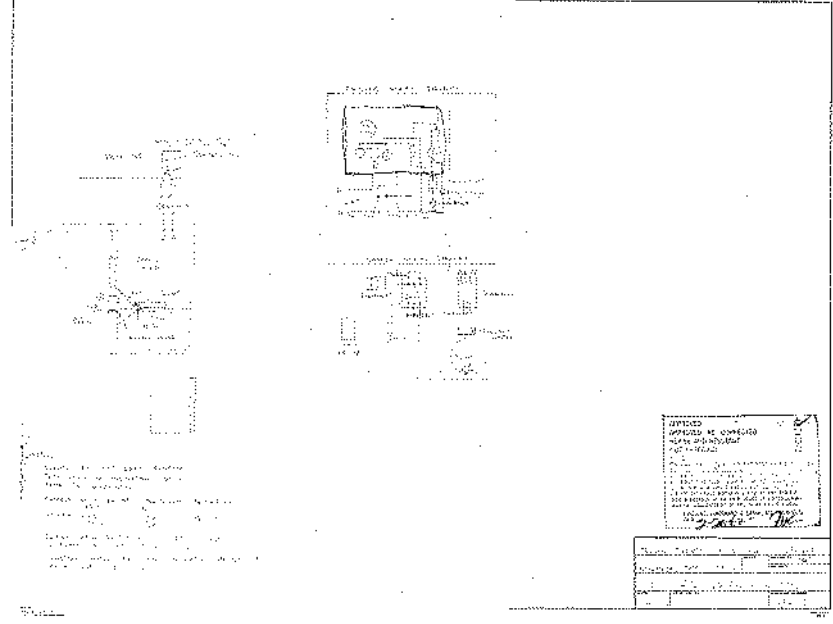




NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	...	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...
6	...	...	...	...	...
7	...	...	...	...	...
8	...	...	...	...	...
9	...	...	...	...	...
10	...	...	...	...	...
11	...	...	...	...	...
12	...	...	...	...	...
13	...	...	...	...	...
14	...	...	...	...	...
15	...	...	...	...	...
16	...	...	...	...	...
17	...	...	...	...	...
18	...	...	...	...	...
19	...	...	...	...	...
20	...	...	...	...	...
21	...	...	...	...	...
22	...	...	...	...	...
23	...	...	...	...	...
24	...	...	...	...	...
25	...	...	...	...	...
26	...	...	...	...	...
27	...	...	...	...	...
28	...	...	...	...	...
29	...	...	...	...	...
30	...	...	...	...	...
31	...	...	...	...	...
32	...	...	...	...	...
33	...	...	...	...	...
34	...	...	...	...	...
35	...	...	...	...	...
36	...	...	...	...	...
37	...	...	...	...	...
38	...	...	...	...	...
39	...	...	...	...	...
40	...	...	...	...	...
41	...	...	...	...	...
42	...	...	...	...	...
43	...	...	...	...	...
44	...	...	...	...	...
45	...	...	...	...	...
46	...	...	...	...	...
47	...	...	...	...	...
48	...	...	...	...	...
49	...	...	...	...	...
50	...	...	...	...	...
51	...	...	...	...	...
52	...	...	...	...	...
53	...	...	...	...	...
54	...	...	...	...	...
55	...	...	...	...	...
56	...	...	...	...	...
57	...	...	...	...	...
58	...	...	...	...	...
59	...	...	...	...	...
60	...	...	...	...	...
61	...	...	...	...	...
62	...	...	...	...	...
63	...	...	...	...	...
64	...	...	...	...	...
65	...	...	...	...	...
66	...	...	...	...	...
67	...	...	...	...	...
68	...	...	...	...	...
69	...	...	...	...	...
70	...	...	...	...	...
71	...	...	...	...	...
72	...	...	...	...	...
73	...	...	...	...	...
74	...	...	...	...	...
75	...	...	...	...	...
76	...	...	...	...	...
77	...	...	...	...	...
78	...	...	...	...	...
79	...	...	...	...	...
80	...	...	...	...	...
81	...	...	...	...	...
82	...	...	...	...	...
83	...	...	...	...	...
84	...	...	...	...	...
85	...	...	...	...	...
86	...	...	...	...	...
87	...	...	...	...	...
88	...	...	...	...	...
89	...	...	...	...	...
90	...	...	...	...	...
91	...	...	...	...	...
92	...	...	...	...	...
93	...	...	...	...	...
94	...	...	...	...	...
95	...	...	...	...	...
96	...	...	...	...	...
97	...	...	...	...	...
98	...	...	...	...	...
99	...	...	...	...	...
100	...	...	...	...	...

APPROVED  
 [Signature]  
 [Date]

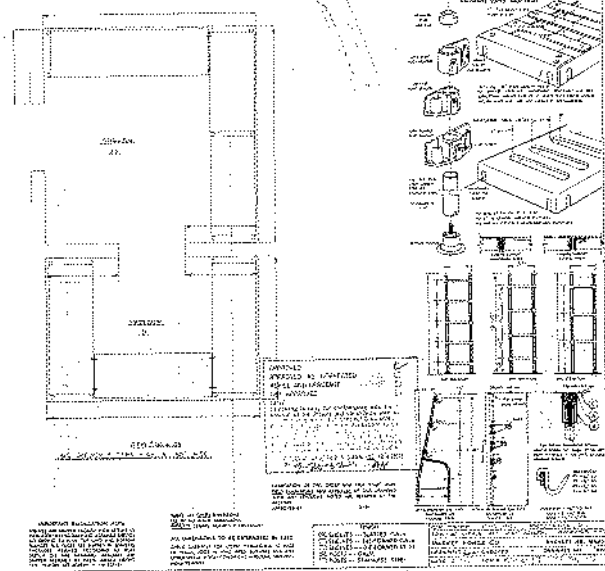
**LIGHT INC.**  
 12345 Main St.  
 City, State, Zip  
 Phone: ( ) - -  
 FAX: ( ) - -



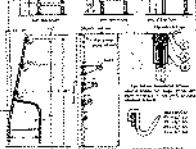
1. The building is a rectangular structure with a central corridor.  
 2. The rooms are numbered 1 through 10.  
 3. The dimensions of the building are 100 feet by 50 feet.  
 4. The total area is 5000 square feet.  
 5. The building is located at 123 Main Street, New York, NY.

APPROVED  
 OFFICE OF THE ARCHITECT  
 123 MAIN STREET  
 NEW YORK, N.Y.

NO.	DATE	DESCRIPTION
1	10/1/50	FOUNDATION
2	10/15/50	WALLS
3	10/30/50	ROOF
4	11/10/50	MECHANICAL
5	11/20/50	ELECTRICAL
6	12/1/50	INTERIOR FINISH
7	12/15/50	EXTERIOR FINISH
8	1/1/51	LANDSCAPE
9	1/15/51	UTILITIES
10	1/30/51	COMPLETION

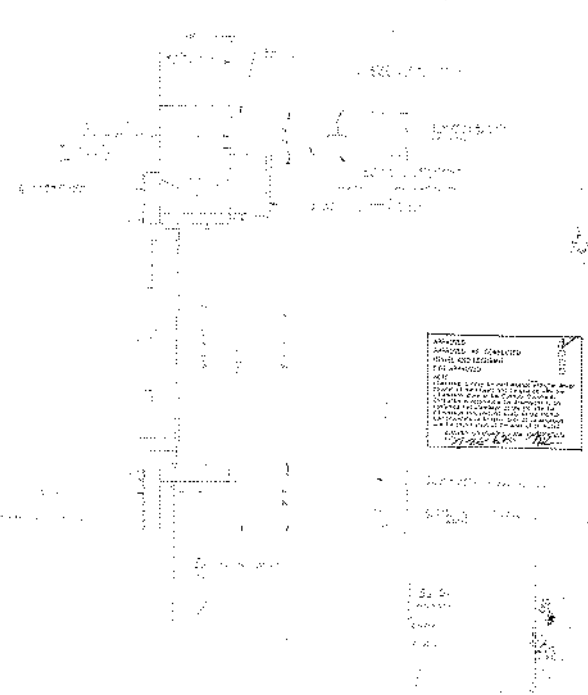
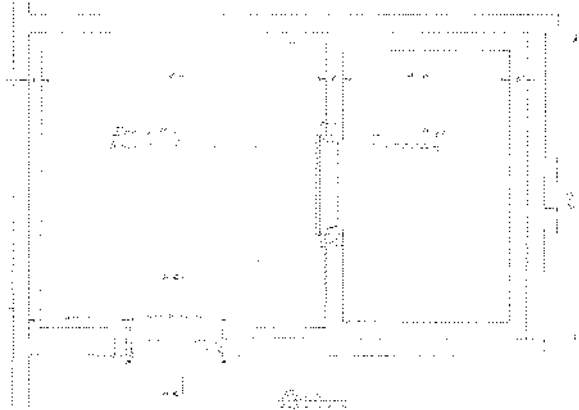


REVISIONS  
 1. CORRECTED TO MATCH  
 2. CORRECTED TO MATCH  
 3. CORRECTED TO MATCH  
 4. CORRECTED TO MATCH  
 5. CORRECTED TO MATCH  
 6. CORRECTED TO MATCH  
 7. CORRECTED TO MATCH  
 8. CORRECTED TO MATCH  
 9. CORRECTED TO MATCH  
 10. CORRECTED TO MATCH



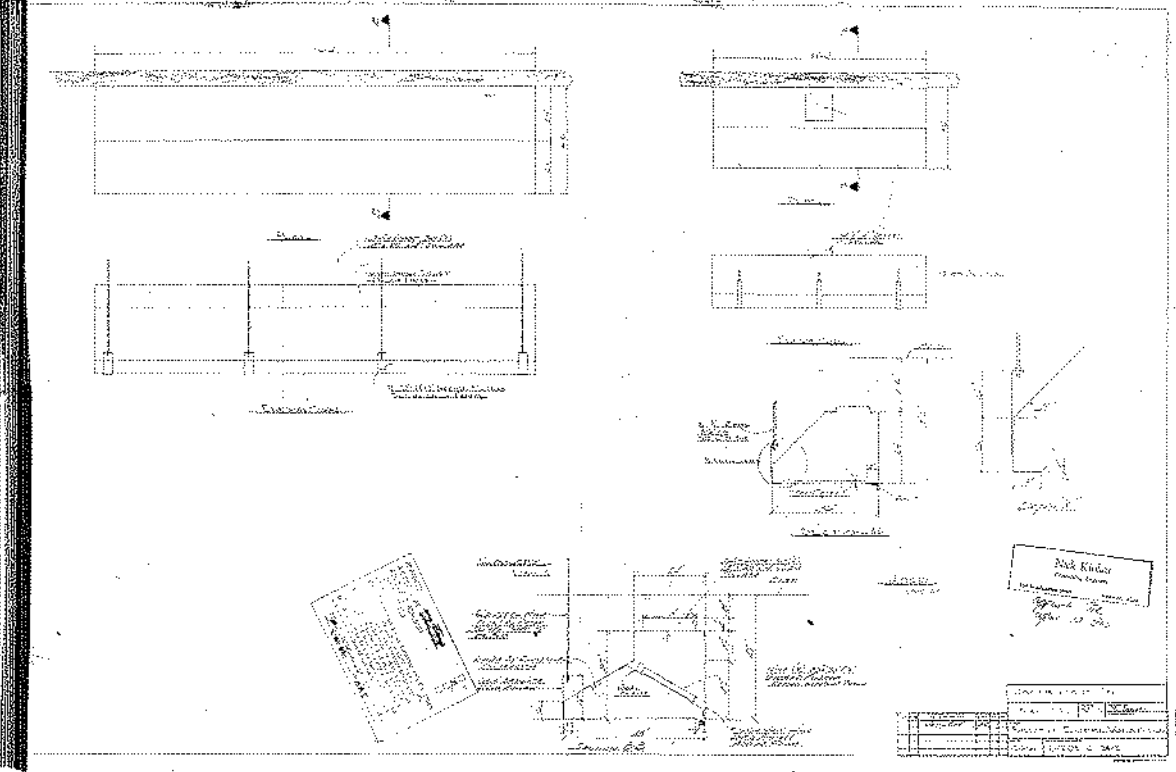
NOTES  
 1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL PLUMBING CODE.  
 2. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL PLUMBING CODE.  
 3. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL PLUMBING CODE.  
 4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL PLUMBING CODE.  
 5. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL PLUMBING CODE.  
 6. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL PLUMBING CODE.  
 7. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL PLUMBING CODE.  
 8. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL PLUMBING CODE.  
 9. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL PLUMBING CODE.  
 10. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL PLUMBING CODE.





1. ANEXO 41 - 42/43/44  
 2. ANEXO 45/46/47/48  
 3. ANEXO 49/50/51/52  
 4. ANEXO 53/54/55/56  
 5. ANEXO 57/58/59/60  
 6. ANEXO 61/62/63/64  
 7. ANEXO 65/66/67/68  
 8. ANEXO 69/70/71/72  
 9. ANEXO 73/74/75/76  
 10. ANEXO 77/78/79/80  
 11. ANEXO 81/82/83/84  
 12. ANEXO 85/86/87/88  
 13. ANEXO 89/90/91/92  
 14. ANEXO 93/94/95/96  
 15. ANEXO 97/98/99/100





Architectural drawing showing a section of a building structure, possibly a roof truss or wall section, with various components labeled and dimensions indicated.

Item	Quantity	Unit	Notes
1	1	m <sup>2</sup>	Roof area
2	1	m <sup>2</sup>	Wall area
3	1	m <sup>2</sup>	Floor area
4	1	m <sup>2</sup>	Other area

NO.	DATE	DESCRIPTION	AMOUNT	BALANCE
1	1911	...	...	...
2	1911	...	...	...
3	1911	...	...	...
4	1911	...	...	...
5	1911	...	...	...
6	1911	...	...	...
7	1911	...	...	...
8	1911	...	...	...
9	1911	...	...	...
10	1911	...	...	...
11	1911	...	...	...
12	1911	...	...	...
13	1911	...	...	...
14	1911	...	...	...
15	1911	...	...	...
16	1911	...	...	...
17	1911	...	...	...
18	1911	...	...	...
19	1911	...	...	...
20	1911	...	...	...
21	1911	...	...	...
22	1911	...	...	...
23	1911	...	...	...
24	1911	...	...	...
25	1911	...	...	...
26	1911	...	...	...
27	1911	...	...	...
28	1911	...	...	...
29	1911	...	...	...
30	1911	...	...	...
31	1911	...	...	...
32	1911	...	...	...
33	1911	...	...	...
34	1911	...	...	...
35	1911	...	...	...
36	1911	...	...	...
37	1911	...	...	...
38	1911	...	...	...
39	1911	...	...	...
40	1911	...	...	...
41	1911	...	...	...
42	1911	...	...	...
43	1911	...	...	...
44	1911	...	...	...
45	1911	...	...	...
46	1911	...	...	...
47	1911	...	...	...
48	1911	...	...	...
49	1911	...	...	...
50	1911	...	...	...
51	1911	...	...	...
52	1911	...	...	...
53	1911	...	...	...
54	1911	...	...	...
55	1911	...	...	...
56	1911	...	...	...
57	1911	...	...	...
58	1911	...	...	...
59	1911	...	...	...
60	1911	...	...	...
61	1911	...	...	...
62	1911	...	...	...
63	1911	...	...	...
64	1911	...	...	...
65	1911	...	...	...
66	1911	...	...	...
67	1911	...	...	...
68	1911	...	...	...
69	1911	...	...	...
70	1911	...	...	...
71	1911	...	...	...
72	1911	...	...	...
73	1911	...	...	...
74	1911	...	...	...
75	1911	...	...	...
76	1911	...	...	...
77	1911	...	...	...
78	1911	...	...	...
79	1911	...	...	...
80	1911	...	...	...
81	1911	...	...	...
82	1911	...	...	...
83	1911	...	...	...
84	1911	...	...	...
85	1911	...	...	...
86	1911	...	...	...
87	1911	...	...	...
88	1911	...	...	...
89	1911	...	...	...
90	1911	...	...	...
91	1911	...	...	...
92	1911	...	...	...
93	1911	...	...	...
94	1911	...	...	...
95	1911	...	...	...
96	1911	...	...	...
97	1911	...	...	...
98	1911	...	...	...
99	1911	...	...	...
100	1911	...	...	...

APPROVED  
 [Signature]  
 [Title]

NO.	DESCRIPTION	QTY.	UNIT PRICE	TOTAL
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
11	...	...	...	...
12	...	...	...	...
13	...	...	...	...
14	...	...	...	...
15	...	...	...	...
16	...	...	...	...
17	...	...	...	...
18	...	...	...	...
19	...	...	...	...
20	...	...	...	...
21	...	...	...	...
22	...	...	...	...
23	...	...	...	...
24	...	...	...	...
25	...	...	...	...
26	...	...	...	...
27	...	...	...	...
28	...	...	...	...
29	...	...	...	...
30	...	...	...	...
31	...	...	...	...
32	...	...	...	...
33	...	...	...	...
34	...	...	...	...
35	...	...	...	...
36	...	...	...	...
37	...	...	...	...
38	...	...	...	...
39	...	...	...	...
40	...	...	...	...
41	...	...	...	...
42	...	...	...	...
43	...	...	...	...
44	...	...	...	...
45	...	...	...	...
46	...	...	...	...
47	...	...	...	...
48	...	...	...	...
49	...	...	...	...
50	...	...	...	...
51	...	...	...	...
52	...	...	...	...
53	...	...	...	...
54	...	...	...	...
55	...	...	...	...
56	...	...	...	...
57	...	...	...	...
58	...	...	...	...
59	...	...	...	...
60	...	...	...	...
61	...	...	...	...
62	...	...	...	...
63	...	...	...	...
64	...	...	...	...
65	...	...	...	...
66	...	...	...	...
67	...	...	...	...
68	...	...	...	...
69	...	...	...	...
70	...	...	...	...
71	...	...	...	...
72	...	...	...	...
73	...	...	...	...
74	...	...	...	...
75	...	...	...	...
76	...	...	...	...
77	...	...	...	...
78	...	...	...	...
79	...	...	...	...
80	...	...	...	...
81	...	...	...	...
82	...	...	...	...
83	...	...	...	...
84	...	...	...	...
85	...	...	...	...
86	...	...	...	...
87	...	...	...	...
88	...	...	...	...
89	...	...	...	...
90	...	...	...	...
91	...	...	...	...
92	...	...	...	...
93	...	...	...	...
94	...	...	...	...
95	...	...	...	...
96	...	...	...	...
97	...	...	...	...
98	...	...	...	...
99	...	...	...	...
100	...	...	...	...

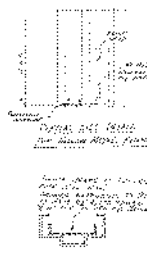
APPROVED  
 [Signature]  
 [Title]

THE PHOENIX MANUFACTURING COMPANY  
EASTMANPORT, MASS.

DATE: \_\_\_\_\_  
BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
REVISION: \_\_\_\_\_

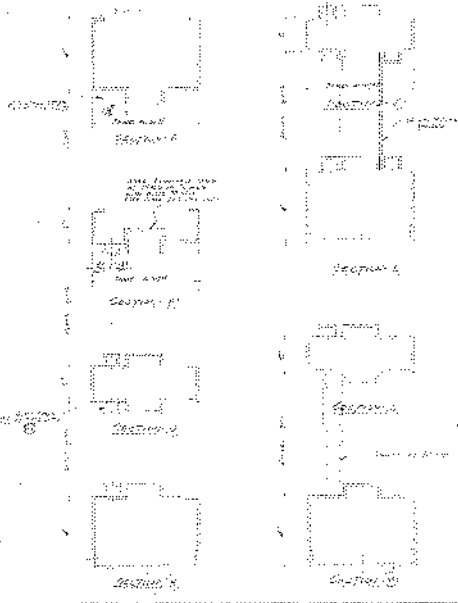
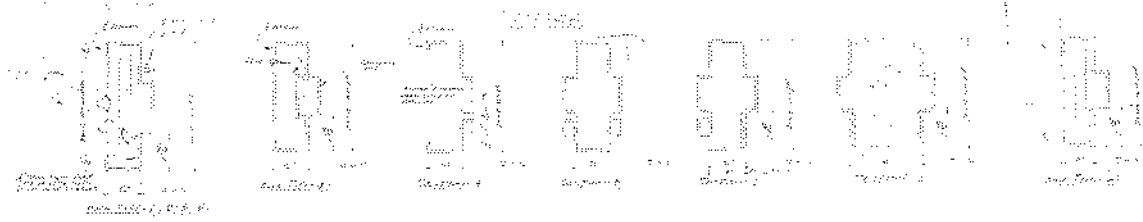
NO.	DESCRIPTION	QTY.	UNIT	PRICE	TOTAL
1	...	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...
6	...	...	...	...	...
7	...	...	...	...	...
8	...	...	...	...	...
9	...	...	...	...	...
10	...	...	...	...	...
11	...	...	...	...	...
12	...	...	...	...	...
13	...	...	...	...	...
14	...	...	...	...	...
15	...	...	...	...	...
16	...	...	...	...	...
17	...	...	...	...	...
18	...	...	...	...	...
19	...	...	...	...	...
20	...	...	...	...	...
21	...	...	...	...	...
22	...	...	...	...	...
23	...	...	...	...	...
24	...	...	...	...	...
25	...	...	...	...	...
26	...	...	...	...	...
27	...	...	...	...	...
28	...	...	...	...	...
29	...	...	...	...	...
30	...	...	...	...	...
31	...	...	...	...	...
32	...	...	...	...	...
33	...	...	...	...	...
34	...	...	...	...	...
35	...	...	...	...	...
36	...	...	...	...	...
37	...	...	...	...	...
38	...	...	...	...	...
39	...	...	...	...	...
40	...	...	...	...	...
41	...	...	...	...	...
42	...	...	...	...	...
43	...	...	...	...	...
44	...	...	...	...	...
45	...	...	...	...	...
46	...	...	...	...	...
47	...	...	...	...	...
48	...	...	...	...	...
49	...	...	...	...	...
50	...	...	...	...	...
51	...	...	...	...	...
52	...	...	...	...	...
53	...	...	...	...	...
54	...	...	...	...	...
55	...	...	...	...	...
56	...	...	...	...	...
57	...	...	...	...	...
58	...	...	...	...	...
59	...	...	...	...	...
60	...	...	...	...	...
61	...	...	...	...	...
62	...	...	...	...	...
63	...	...	...	...	...
64	...	...	...	...	...
65	...	...	...	...	...
66	...	...	...	...	...
67	...	...	...	...	...
68	...	...	...	...	...
69	...	...	...	...	...
70	...	...	...	...	...
71	...	...	...	...	...
72	...	...	...	...	...
73	...	...	...	...	...
74	...	...	...	...	...
75	...	...	...	...	...
76	...	...	...	...	...
77	...	...	...	...	...
78	...	...	...	...	...
79	...	...	...	...	...
80	...	...	...	...	...
81	...	...	...	...	...
82	...	...	...	...	...
83	...	...	...	...	...
84	...	...	...	...	...
85	...	...	...	...	...
86	...	...	...	...	...
87	...	...	...	...	...
88	...	...	...	...	...
89	...	...	...	...	...
90	...	...	...	...	...
91	...	...	...	...	...
92	...	...	...	...	...
93	...	...	...	...	...
94	...	...	...	...	...
95	...	...	...	...	...
96	...	...	...	...	...
97	...	...	...	...	...
98	...	...	...	...	...
99	...	...	...	...	...
100	...	...	...	...	...

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_

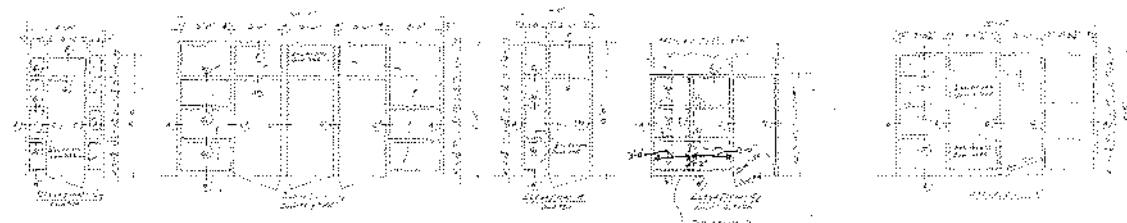
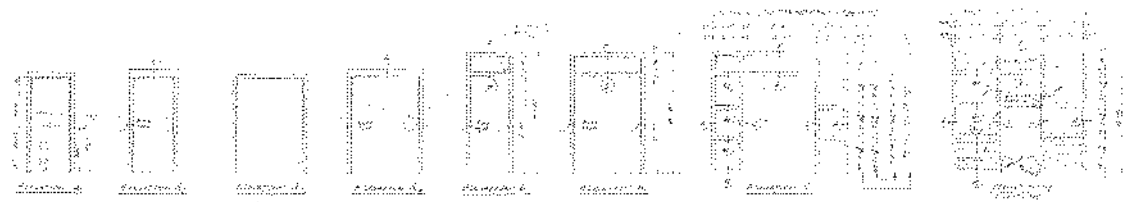


APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_

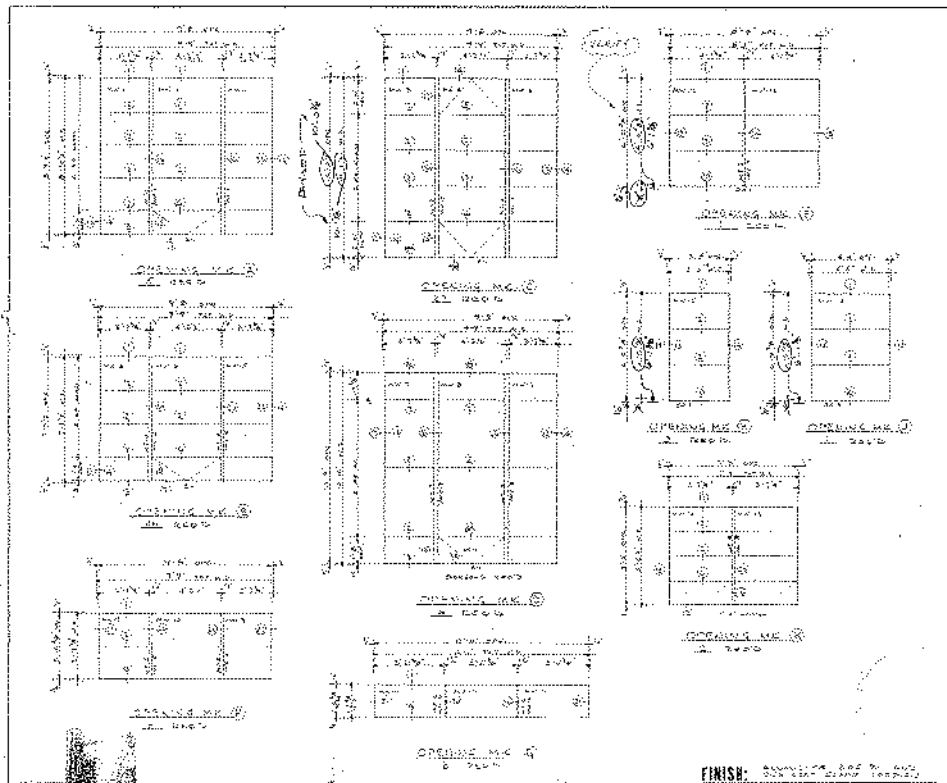




APPROVED FOR  
FOR THE ARCHITECT  
DATE: 11/11/11



APPROVED FOR CONSTRUCTION  
DATE: 10/10/2010  
BY: [Signature]



1. OPERABLE ALUMINUM WINDOWS TO BE INSTALLED ON EXTERIOR WALLS OF BUILDING. SEE DRAWING NO. 10 FOR DETAILS OF WINDOW.
2. FINISH: 3/4" x 1/4" ALUMINUM.
3. HIDE FROM INTERIOR. SEE DRAWING NO. 10 FOR DETAILS OF WINDOW.
4. OPERABLE: 1/2" x 1/4" ALUMINUM.
5. 1/2" x 1/4" ALUMINUM. SEE DRAWING NO. 10 FOR DETAILS OF WINDOW.

APPROVED FOR THE ARCHITECT BY THE MANUFACTURER'S REPRESENTATIVE

**NOTICE**  
 IN ORDER THAT WE MAY MEET THE SCHEDULED DELIVERY DATE FOR THIS PROJECT, PLEASE ORDER OR RETURN OF ORDER BEFORE 2:00 PM DECATUR HOUR & STEEL CO.

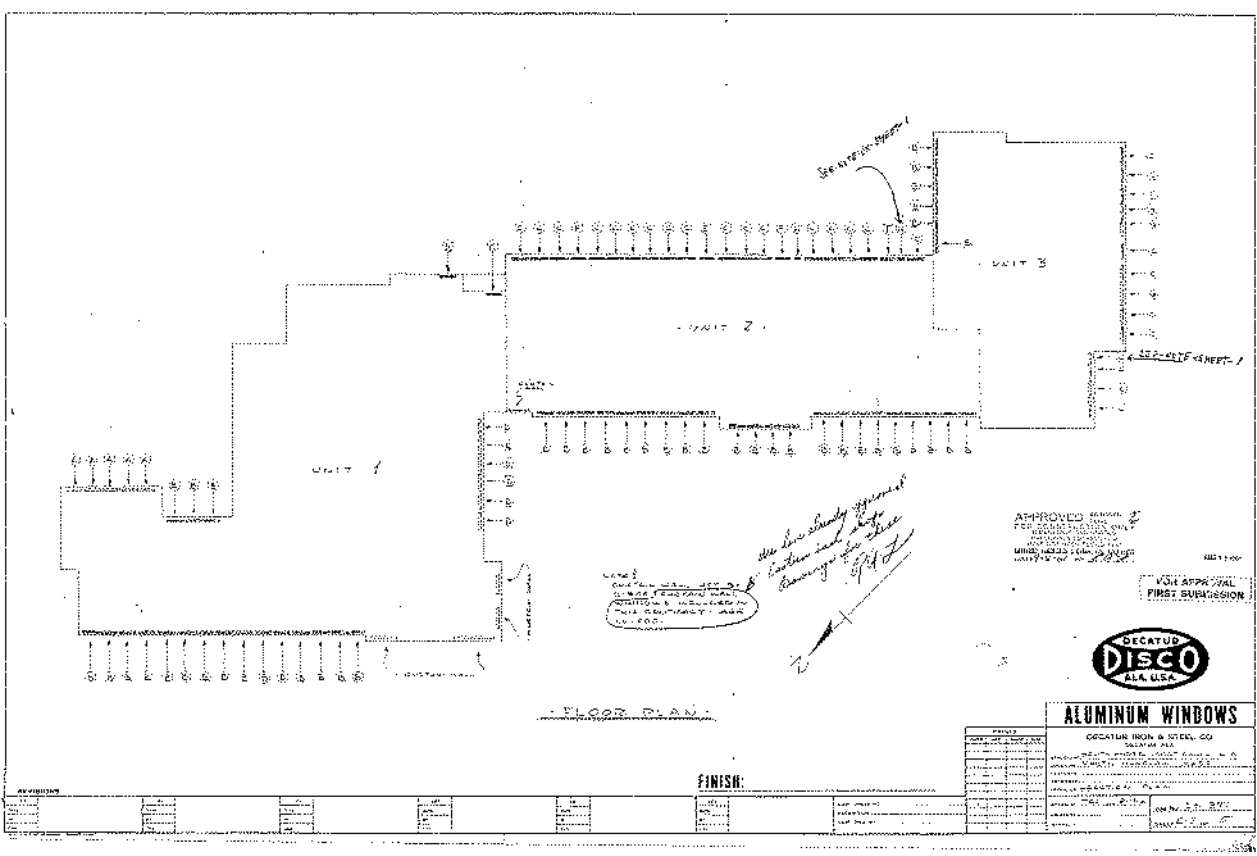
FOR APPROVAL FIRST SUBMISSION



**ALUMINUM WINDOWS**

ITEM	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	OPERABLE ALUMINUM WINDOW				
2	FINISH: 3/4" x 1/4" ALUMINUM				
3	HIDE FROM INTERIOR				
4	OPERABLE: 1/2" x 1/4" ALUMINUM				
5	1/2" x 1/4" ALUMINUM				

FINISH: 3/4" x 1/4" ALUMINUM



APPROVED  
 FOR RECORD  
 ARCHITECT  
 1/14/54

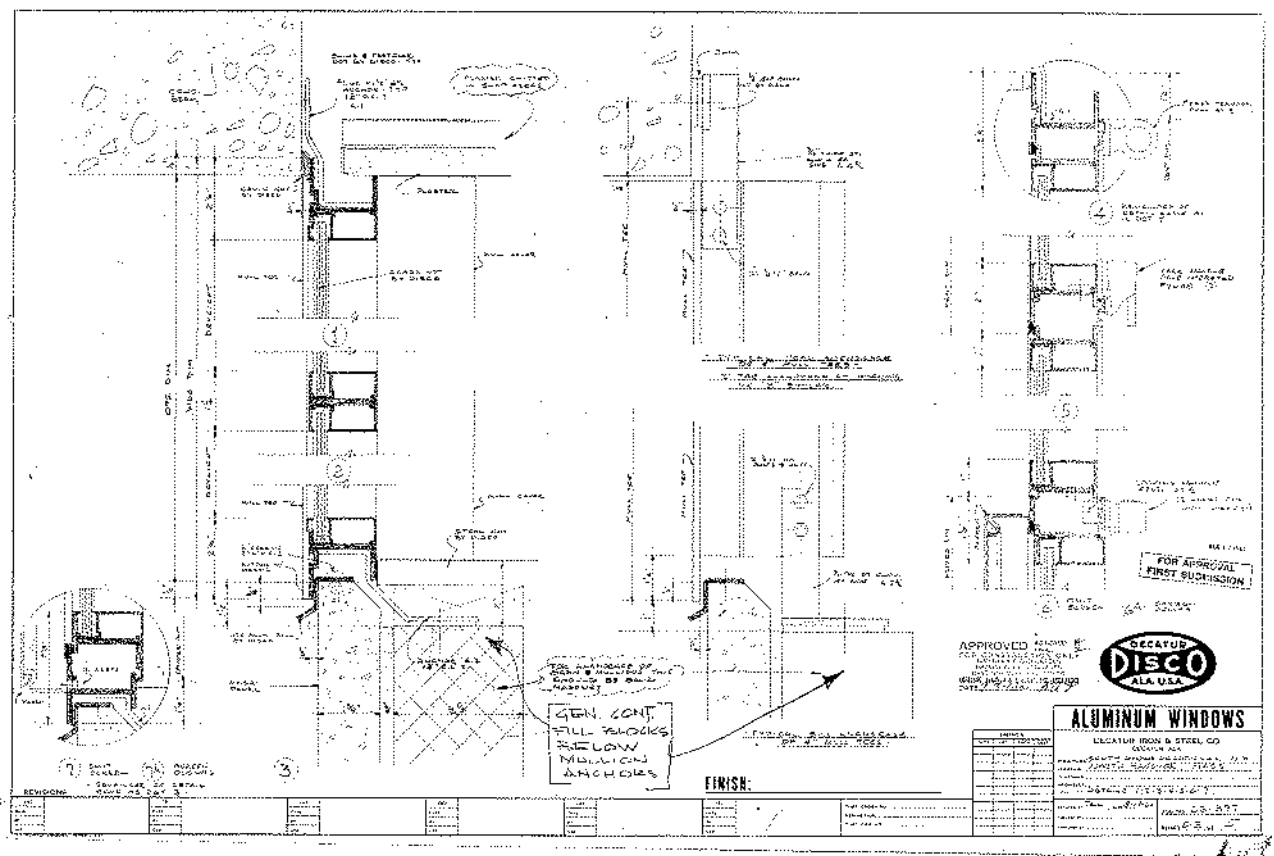


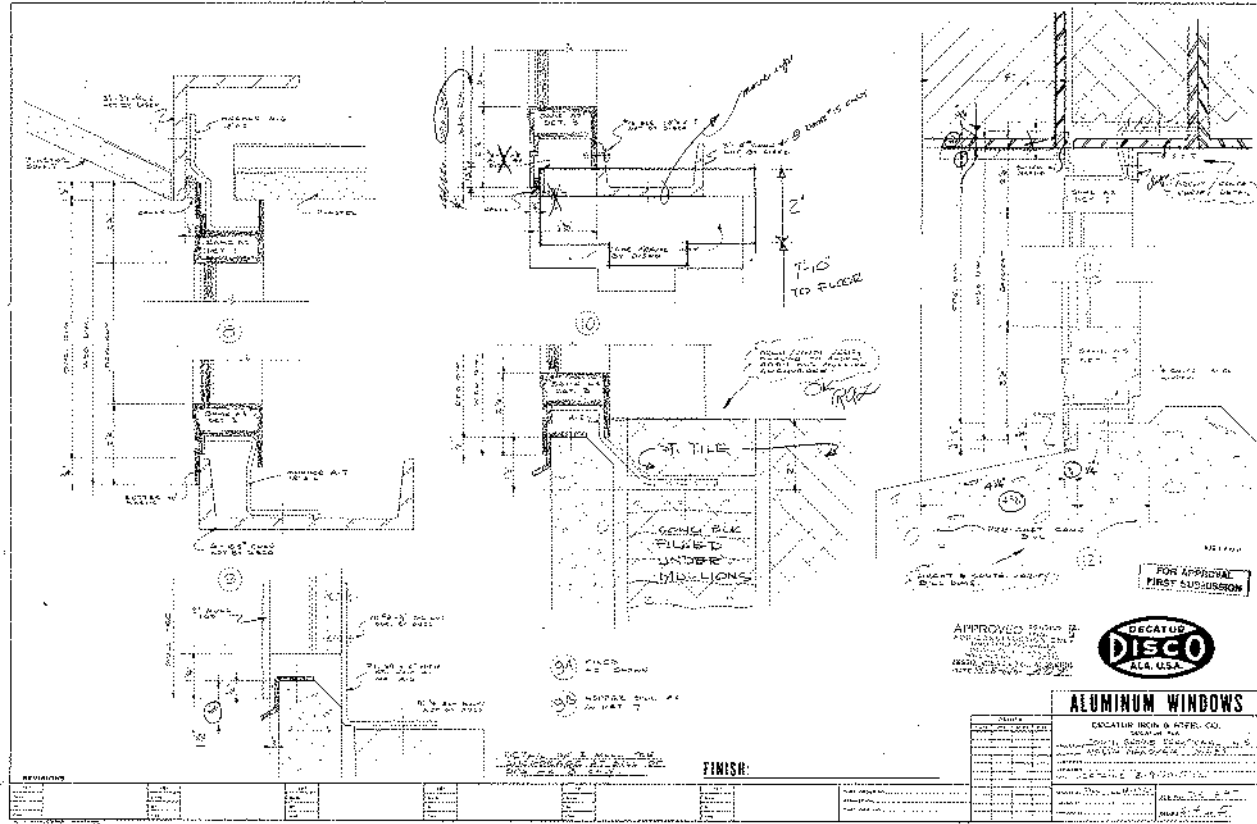
**ALUMINUM WINDOWS**

TYPE	SIZE	MATERIAL	FINISH
1	36" x 48"	ALUMINUM	ANODIZED
2	36" x 48"	ALUMINUM	PAINTED
3	36" x 48"	ALUMINUM	ANODIZED
4	36" x 48"	ALUMINUM	PAINTED
5	36" x 48"	ALUMINUM	ANODIZED
6	36" x 48"	ALUMINUM	PAINTED
7	36" x 48"	ALUMINUM	ANODIZED
8	36" x 48"	ALUMINUM	PAINTED
9	36" x 48"	ALUMINUM	ANODIZED
10	36" x 48"	ALUMINUM	PAINTED
11	36" x 48"	ALUMINUM	ANODIZED
12	36" x 48"	ALUMINUM	PAINTED

**FINISH**

NO.	DATE	DESCRIPTION	BY
1	1/14/54	ISSUED FOR PERMIT	J.S.
2	1/14/54	REVISION	J.S.
3	1/14/54	REVISION	J.S.
4	1/14/54	REVISION	J.S.
5	1/14/54	REVISION	J.S.
6	1/14/54	REVISION	J.S.
7	1/14/54	REVISION	J.S.
8	1/14/54	REVISION	J.S.
9	1/14/54	REVISION	J.S.
10	1/14/54	REVISION	J.S.



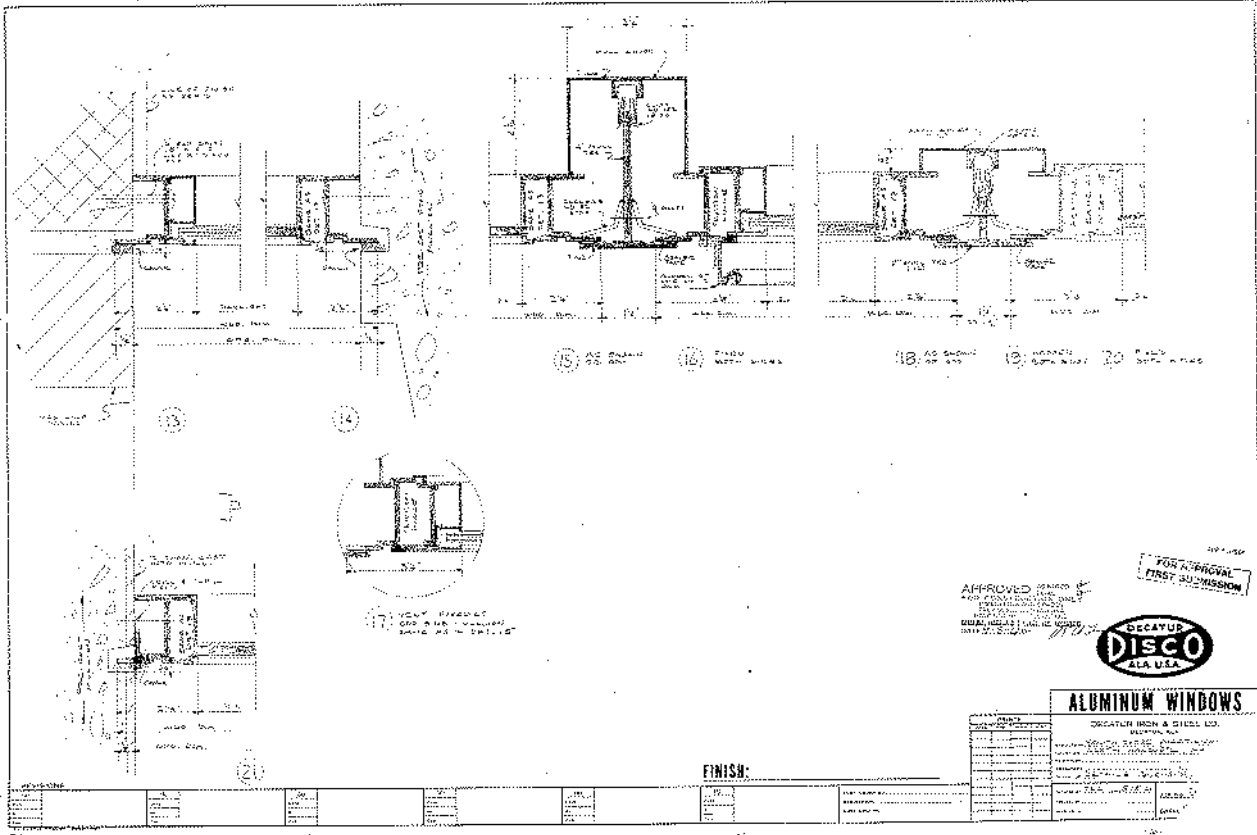


APPROVED FOR THE ARCHITECT BY  
 DISCO  
 ALA. USA

**ALUMINUM WINDOWS**

DISCO ALUMINUM WINDOW & DOOR CO.  
 1000 1/2 AVENUE  
 MOBILE, ALA. 36688  
 PHONE (904) 671-1111  
 FAX (904) 671-1112





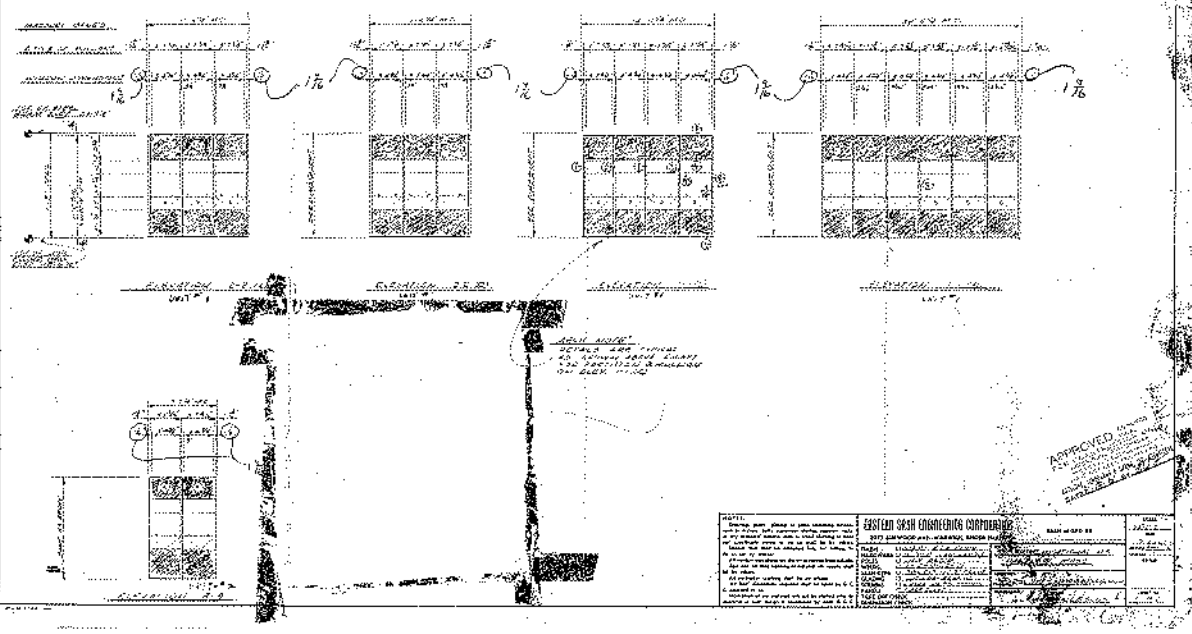
APPROVED BY  
 FOR APPROVAL  
 FIRST SUBMISSION



**ALUMINUM WINDOWS**

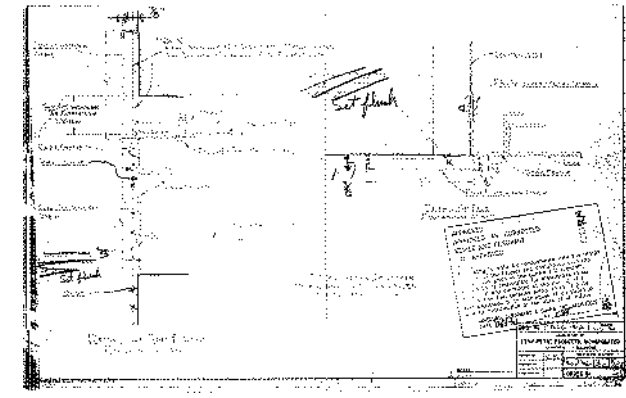
NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	ALUMINUM WINDOW				
2	ALUMINUM DOOR				
3	ALUMINUM PARTITION				
4	ALUMINUM RAILING				
5	ALUMINUM HANDRAIL				
6	ALUMINUM STAIRCASE				
7	ALUMINUM BALCONY				
8	ALUMINUM FENCE				
9	ALUMINUM SIGNAGE				
10	ALUMINUM LIGHTING				
11	ALUMINUM FURNITURE				
12	ALUMINUM ACCESSORIES				

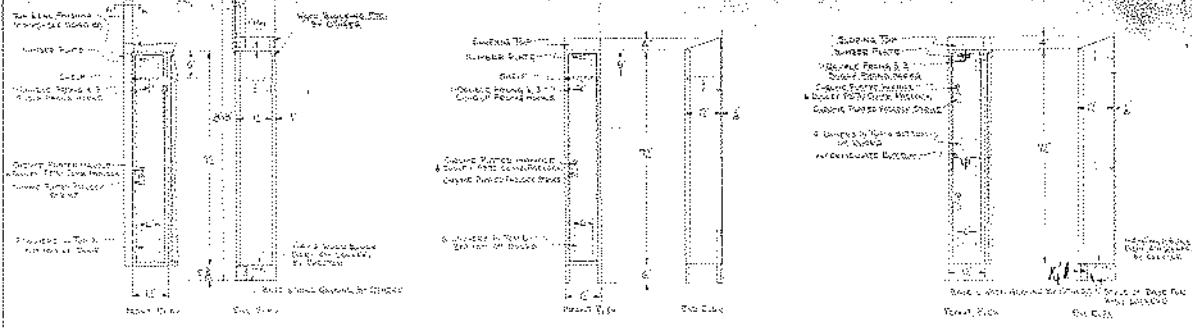
**FINISH:**



GENERAL NOTES		REVISIONS	
1.	SEE DRAWING FOR DETAILS	NO.	DATE
2.	ALL DIMENSIONS ARE IN FEET AND INCHES		
3.	FINISHES ARE AS SHOWN ON DRAWINGS		
4.	CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES		
5.	ALL MATERIALS SHALL BE OF THE BEST QUALITY AVAILABLE		
6.	WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME		
7.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS		
8.	ALL UTILITIES SHALL BE PROTECTED AND MAINTAINED		
9.	THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES		
10.	ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT		

APPROVED  
 [Signature]  
 ARCHITECT





301 - ELEVATION OF LOCKER BANK - 10' x 10' (SEE PLAN)

302 - ELEVATION OF LOCKER BANK - 10' x 10' (SEE PLAN)

303 - ELEVATION OF LOCKER BANK - 10' x 10' (SEE PLAN)



304 - PLAN OF LOCKER BANK - 10' x 10' (SEE ELEVATIONS)

305 - SECTION OF LOCKER BANK - 10' x 10' (SEE ELEVATIONS)

306 - SECTION OF LOCKER BANK - 10' x 10' (SEE ELEVATIONS)

NOTE  
 LOCKER NUMBERS  
 SEE LETTER  
 C & B ALL

LOCKER	NO.	NO.
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10

ALL QUANTITIES INDICATED BY THESE FIGURES  
 UNLESS OTHERWISE SPECIFIED  
 SHALL BE IN ACCORDANCE WITH THE  
 SOUTH SHORE INSTITUTION, NEW BRUNSWICK  
 HEALTH DEPARTMENT  
 MASS.

DATE	NO.	NO.
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10

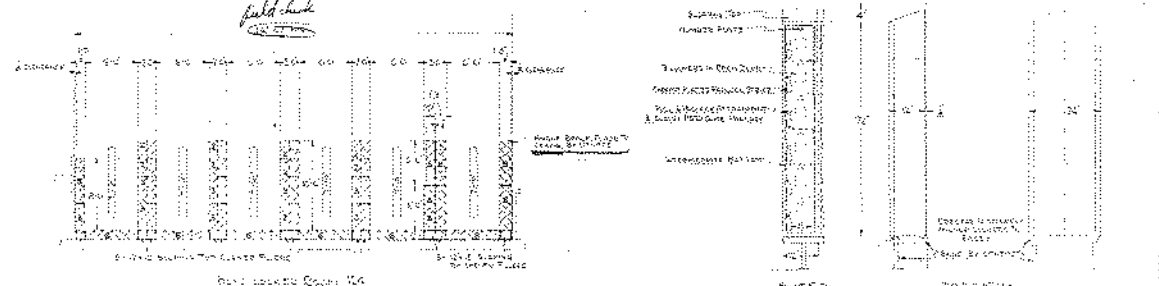


Table with 2 columns: Item, Quantity. Includes items like 'WOOD SHINGLES' and 'ROOFING'.

WOOD SHINGLES	1000
ROOFING	500
...	...

Table with 2 columns: Item, Quantity. Includes items like 'WOOD SHINGLES' and 'ROOFING'.

WOOD SHINGLES	1000
ROOFING	500
...	...

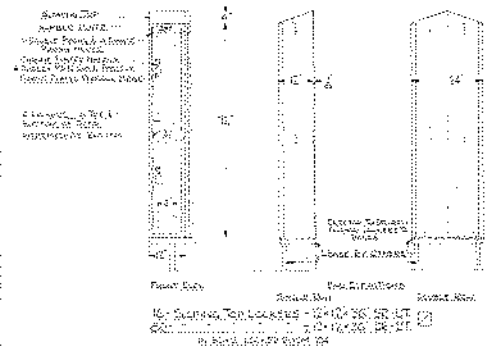


Table with 2 columns: Item, Quantity. Includes items like 'WOOD SHINGLES' and 'ROOFING'.

WOOD SHINGLES	1000
ROOFING	500
...	...

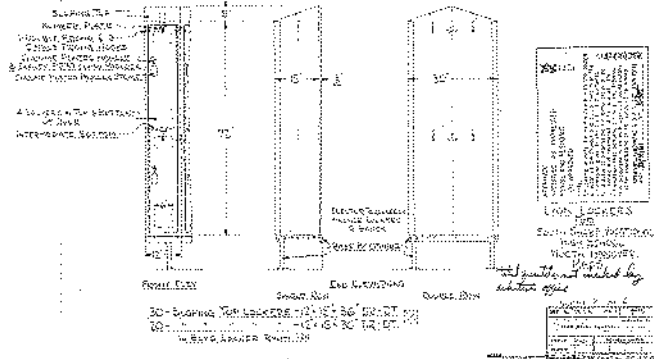


Table with 2 columns: Item, Quantity. Includes items like 'WOOD SHINGLES' and 'ROOFING'.

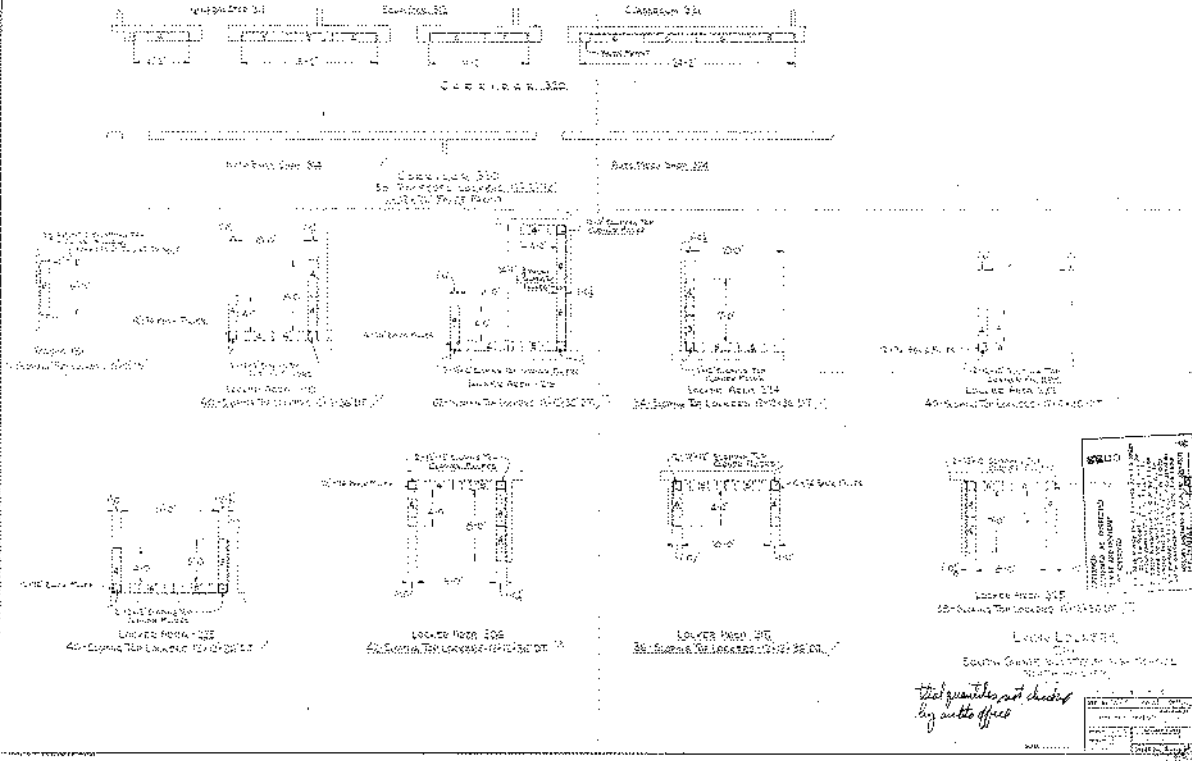
WOOD SHINGLES	1000
ROOFING	500
...	...

Table with 2 columns: Item, Quantity. Includes items like 'WOOD SHINGLES' and 'ROOFING'.

WOOD SHINGLES	1000
ROOFING	500
...	...

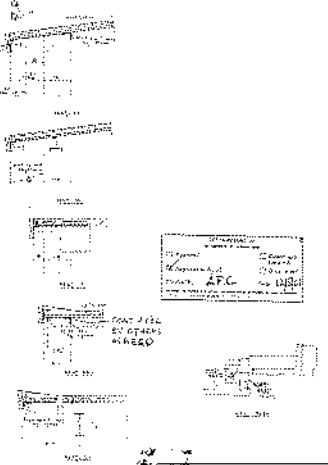
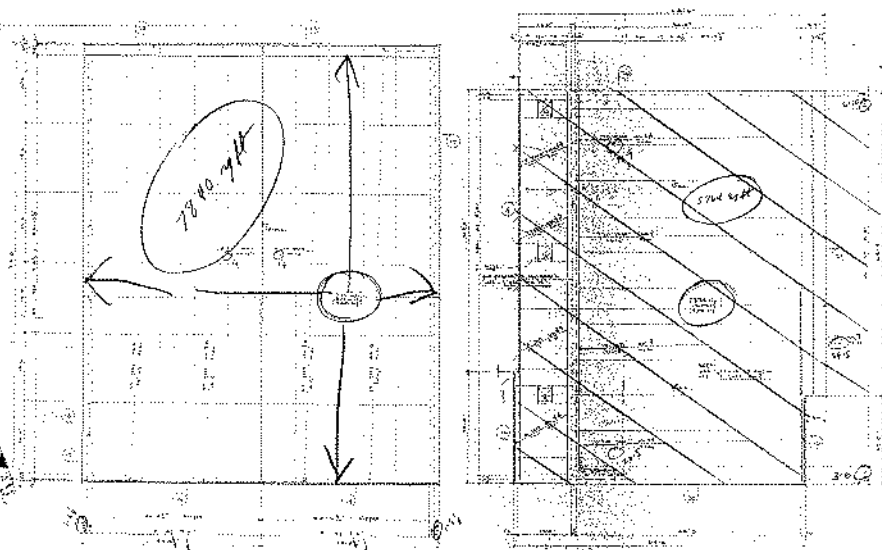






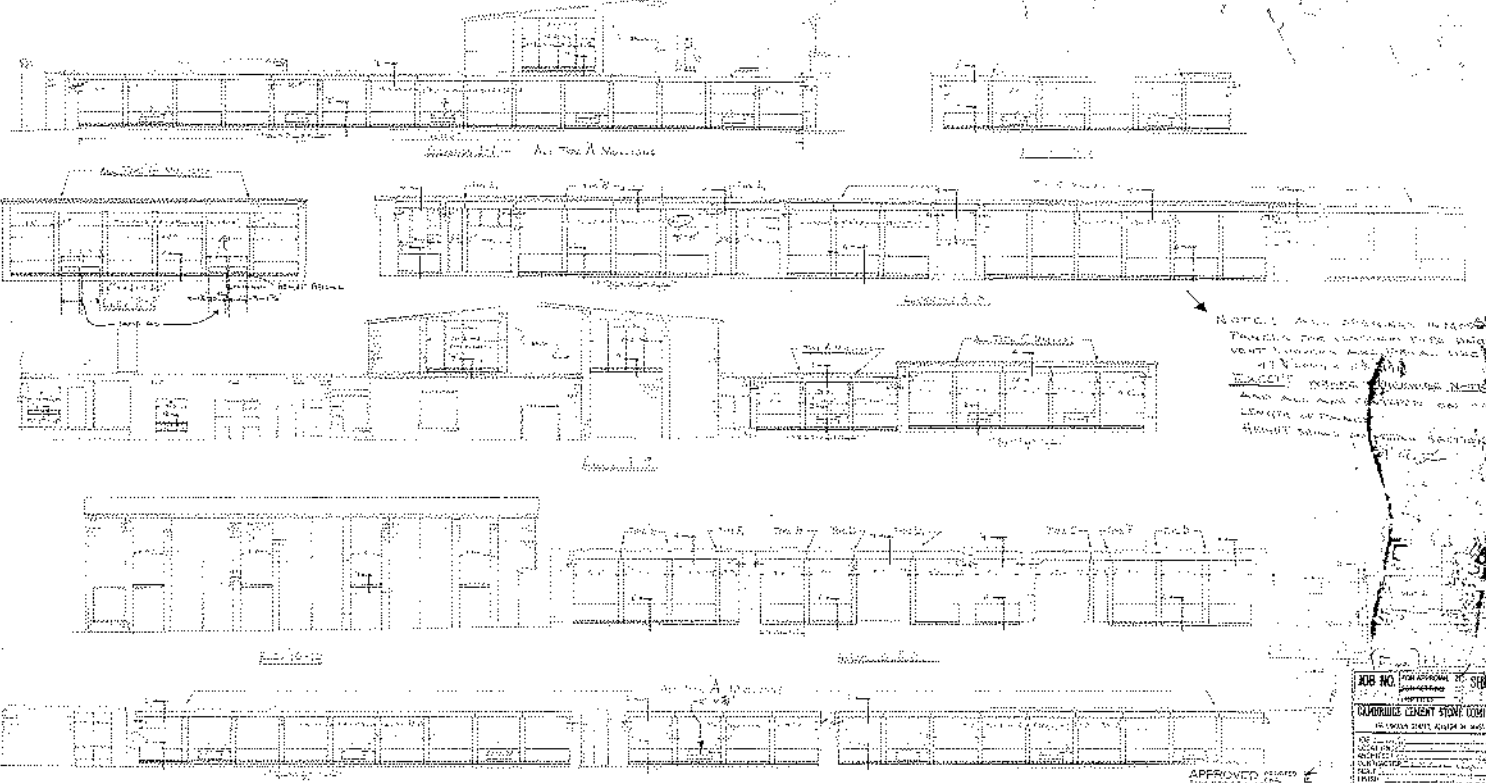


NO.	DESCRIPTION	AMOUNT	TOTAL



Approved: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Martin Fireproofing Corp.

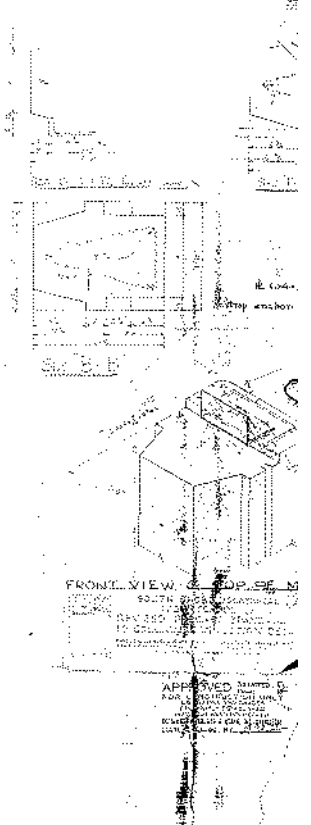
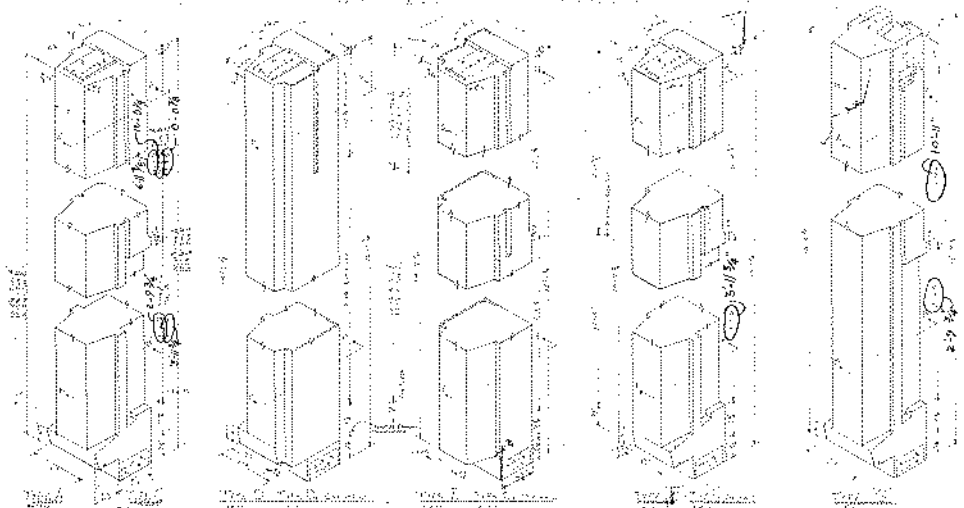
**MARTIN FIREPROOFING CORP.**  
 150 W. WASHINGTON ST.  
 CHICAGO, ILL. 60601  
 PH: 312-321-3333  
 FAX: 312-321-3333  
 TELEX: 261283  
 WWW: WWW.MARTINFIREPROOFING.COM



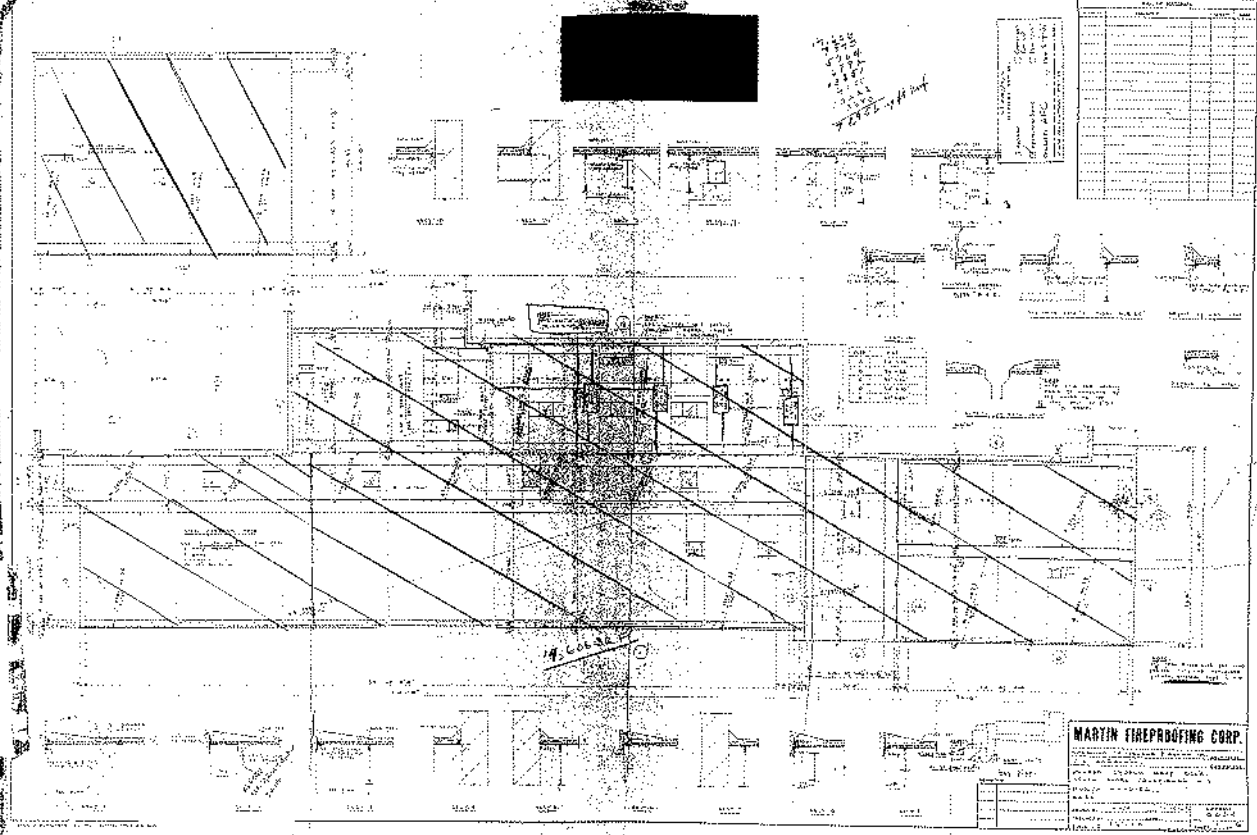
NOTE: ALL DIMENSIONS IN THIS  
 PLAN SHALL BE TAKEN FROM THE  
 CENTER LINE UNLESS OTHERWISE  
 SPECIFIED.

APPROVED AS SHOWN  
 AND FOR THE CONTRACTOR  
 TO BE BOUND BY THE  
 TERMS OF THE CONTRACT

JOB NO. 100-100000-01	
SHEET NO. 100-100000-01-01	
DRAWING TITLE: GENERAL CONTRACTOR	
DATE:	10/1/50
SCALE:	AS SHOWN
PROJECT:	100-100000-01
CLIENT:	100-100000-01
DESIGNER:	100-100000-01
CHECKED:	100-100000-01
APPROVED:	100-100000-01
DATE:	10/1/50

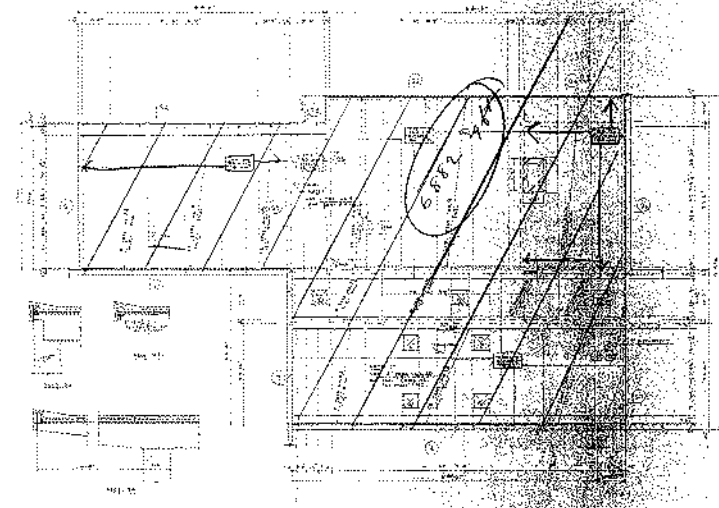






**MARTIN FIREPROOFING CORP.**  
FIREPROOFING CONTRACTORS  
1000 BROADWAY  
NEW YORK, N. Y.  
TELEPHONE BR 5-1111



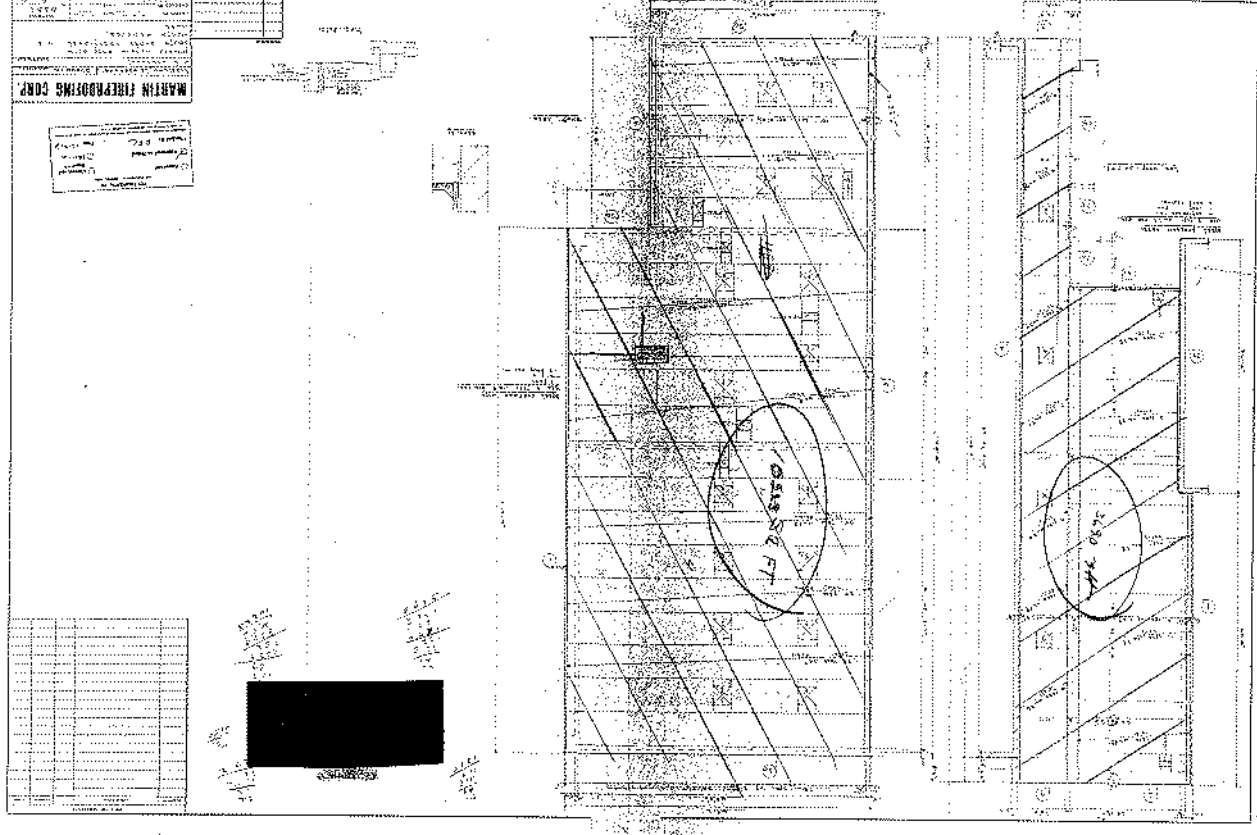


NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	CONCRETE	100	CU YD	120.00	12000.00
2	STEEL	50	TONS	200.00	10000.00
3	BRICK	200	1000'S	10.00	2000.00
4	CEMENT	50	TONS	80.00	4000.00
5	LABOR	1000	HOURS	1.00	1000.00
6	PAINT	100	GALLONS	5.00	500.00
7	WATER	100	1000'S	1.00	100.00
8	ELECTRICAL	100	HOURS	10.00	1000.00
9	PLUMBING	100	HOURS	10.00	1000.00
10	MECHANICAL	100	HOURS	10.00	1000.00
11	INSULATION	100	1000'S	10.00	1000.00
12	GLASS	100	SQ FT	1.00	100.00
13	DOORS	10	DOORS	100.00	1000.00
14	WINDOWS	100	WINDOWS	10.00	1000.00
15	ROOFING	100	SQ FT	1.00	100.00
16	FOUNDATION	100	SQ FT	1.00	100.00
17	CLADDING	100	SQ FT	1.00	100.00
18	MECHANICAL	100	SQ FT	1.00	100.00
19	ELECTRICAL	100	SQ FT	1.00	100.00
20	PLUMBING	100	SQ FT	1.00	100.00
21	MECHANICAL	100	SQ FT	1.00	100.00
22	ELECTRICAL	100	SQ FT	1.00	100.00
23	PLUMBING	100	SQ FT	1.00	100.00
24	MECHANICAL	100	SQ FT	1.00	100.00
25	ELECTRICAL	100	SQ FT	1.00	100.00
26	PLUMBING	100	SQ FT	1.00	100.00
27	MECHANICAL	100	SQ FT	1.00	100.00
28	ELECTRICAL	100	SQ FT	1.00	100.00
29	PLUMBING	100	SQ FT	1.00	100.00
30	MECHANICAL	100	SQ FT	1.00	100.00
31	ELECTRICAL	100	SQ FT	1.00	100.00
32	PLUMBING	100	SQ FT	1.00	100.00
33	MECHANICAL	100	SQ FT	1.00	100.00
34	ELECTRICAL	100	SQ FT	1.00	100.00
35	PLUMBING	100	SQ FT	1.00	100.00
36	MECHANICAL	100	SQ FT	1.00	100.00
37	ELECTRICAL	100	SQ FT	1.00	100.00
38	PLUMBING	100	SQ FT	1.00	100.00
39	MECHANICAL	100	SQ FT	1.00	100.00
40	ELECTRICAL	100	SQ FT	1.00	100.00
41	PLUMBING	100	SQ FT	1.00	100.00
42	MECHANICAL	100	SQ FT	1.00	100.00
43	ELECTRICAL	100	SQ FT	1.00	100.00
44	PLUMBING	100	SQ FT	1.00	100.00
45	MECHANICAL	100	SQ FT	1.00	100.00
46	ELECTRICAL	100	SQ FT	1.00	100.00
47	PLUMBING	100	SQ FT	1.00	100.00
48	MECHANICAL	100	SQ FT	1.00	100.00
49	ELECTRICAL	100	SQ FT	1.00	100.00
50	PLUMBING	100	SQ FT	1.00	100.00
51	MECHANICAL	100	SQ FT	1.00	100.00
52	ELECTRICAL	100	SQ FT	1.00	100.00
53	PLUMBING	100	SQ FT	1.00	100.00
54	MECHANICAL	100	SQ FT	1.00	100.00
55	ELECTRICAL	100	SQ FT	1.00	100.00
56	PLUMBING	100	SQ FT	1.00	100.00
57	MECHANICAL	100	SQ FT	1.00	100.00
58	ELECTRICAL	100	SQ FT	1.00	100.00
59	PLUMBING	100	SQ FT	1.00	100.00
60	MECHANICAL	100	SQ FT	1.00	100.00
61	ELECTRICAL	100	SQ FT	1.00	100.00
62	PLUMBING	100	SQ FT	1.00	100.00
63	MECHANICAL	100	SQ FT	1.00	100.00
64	ELECTRICAL	100	SQ FT	1.00	100.00
65	PLUMBING	100	SQ FT	1.00	100.00
66	MECHANICAL	100	SQ FT	1.00	100.00
67	ELECTRICAL	100	SQ FT	1.00	100.00
68	PLUMBING	100	SQ FT	1.00	100.00
69	MECHANICAL	100	SQ FT	1.00	100.00
70	ELECTRICAL	100	SQ FT	1.00	100.00
71	PLUMBING	100	SQ FT	1.00	100.00
72	MECHANICAL	100	SQ FT	1.00	100.00
73	ELECTRICAL	100	SQ FT	1.00	100.00
74	PLUMBING	100	SQ FT	1.00	100.00
75	MECHANICAL	100	SQ FT	1.00	100.00
76	ELECTRICAL	100	SQ FT	1.00	100.00
77	PLUMBING	100	SQ FT	1.00	100.00
78	MECHANICAL	100	SQ FT	1.00	100.00
79	ELECTRICAL	100	SQ FT	1.00	100.00
80	PLUMBING	100	SQ FT	1.00	100.00
81	MECHANICAL	100	SQ FT	1.00	100.00
82	ELECTRICAL	100	SQ FT	1.00	100.00
83	PLUMBING	100	SQ FT	1.00	100.00
84	MECHANICAL	100	SQ FT	1.00	100.00
85	ELECTRICAL	100	SQ FT	1.00	100.00
86	PLUMBING	100	SQ FT	1.00	100.00
87	MECHANICAL	100	SQ FT	1.00	100.00
88	ELECTRICAL	100	SQ FT	1.00	100.00
89	PLUMBING	100	SQ FT	1.00	100.00
90	MECHANICAL	100	SQ FT	1.00	100.00
91	ELECTRICAL	100	SQ FT	1.00	100.00
92	PLUMBING	100	SQ FT	1.00	100.00
93	MECHANICAL	100	SQ FT	1.00	100.00
94	ELECTRICAL	100	SQ FT	1.00	100.00
95	PLUMBING	100	SQ FT	1.00	100.00
96	MECHANICAL	100	SQ FT	1.00	100.00
97	ELECTRICAL	100	SQ FT	1.00	100.00
98	PLUMBING	100	SQ FT	1.00	100.00
99	MECHANICAL	100	SQ FT	1.00	100.00
100	ELECTRICAL	100	SQ FT	1.00	100.00

**MARTIN FIREPROOFING CORP.**  
 1000 W. 10th St. - Chicago, Ill.  
 Phone: 432-1234

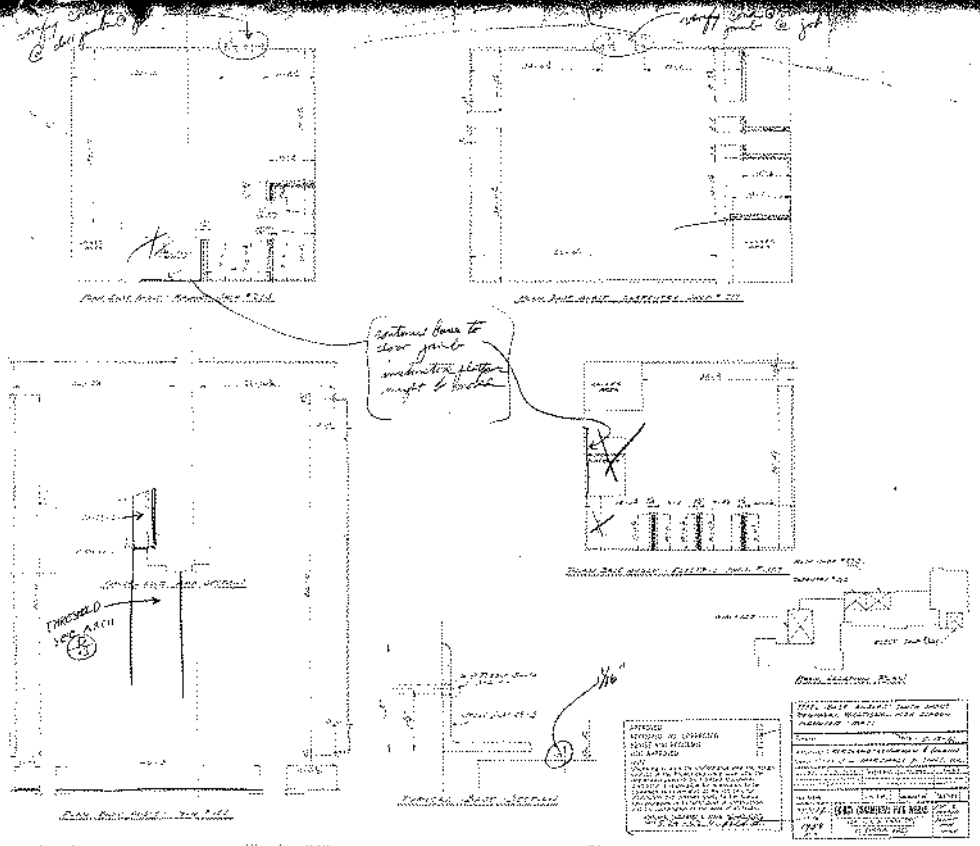




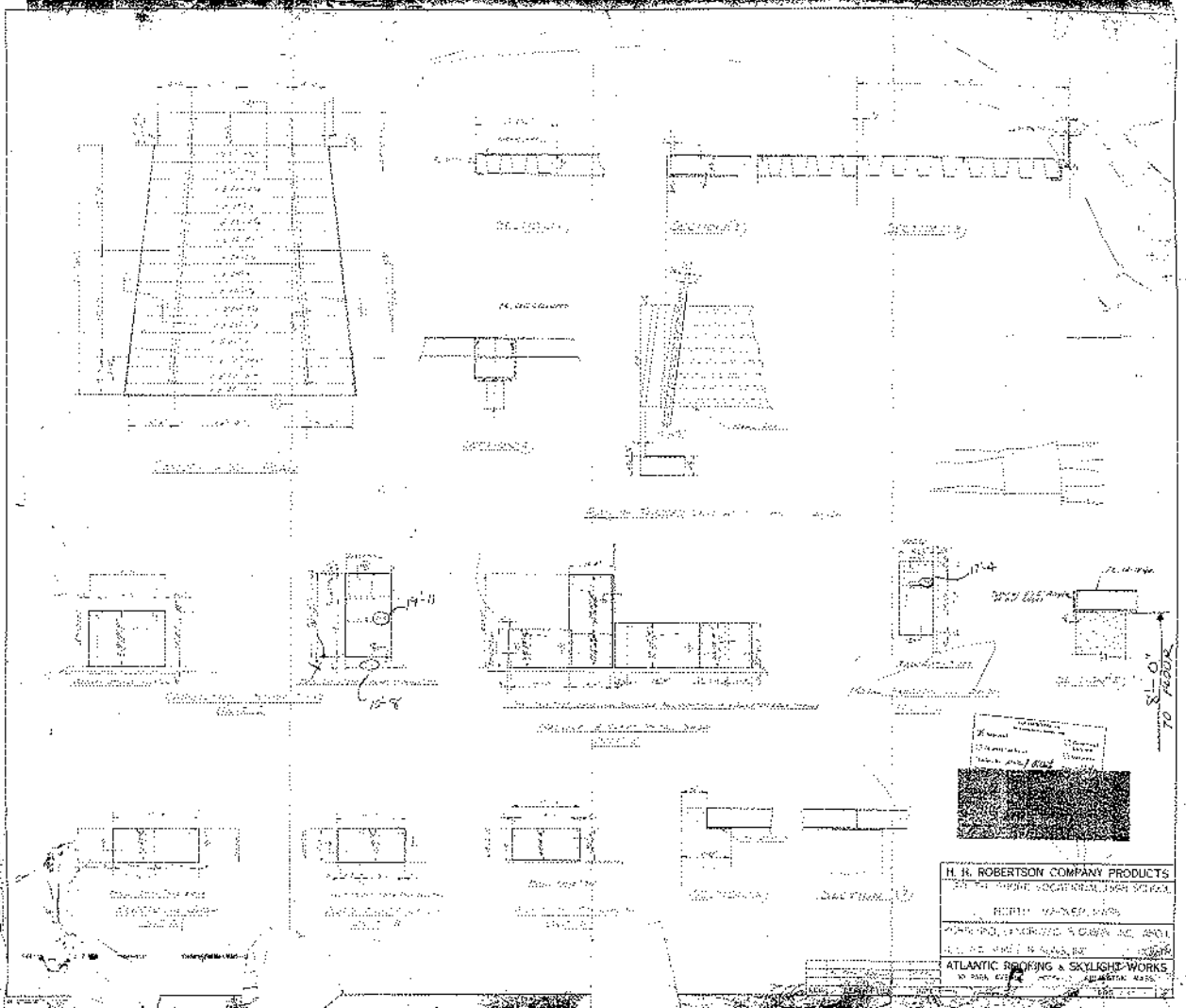


NO.	DESCRIPTION	QTY.	UNIT
1	...	...	...
2	...	...	...
3	...	...	...
4	...	...	...
5	...	...	...
6	...	...	...
7	...	...	...
8	...	...	...
9	...	...	...
10	...	...	...
11	...	...	...
12	...	...	...
13	...	...	...
14	...	...	...
15	...	...	...
16	...	...	...
17	...	...	...
18	...	...	...
19	...	...	...
20	...	...	...
21	...	...	...
22	...	...	...
23	...	...	...
24	...	...	...
25	...	...	...
26	...	...	...
27	...	...	...
28	...	...	...
29	...	...	...
30	...	...	...
31	...	...	...
32	...	...	...
33	...	...	...
34	...	...	...
35	...	...	...
36	...	...	...
37	...	...	...
38	...	...	...
39	...	...	...
40	...	...	...
41	...	...	...
42	...	...	...
43	...	...	...
44	...	...	...
45	...	...	...
46	...	...	...
47	...	...	...
48	...	...	...
49	...	...	...
50	...	...	...





NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	DOOR	1	EA	100.00	100.00
2	WINDOW	1	EA	50.00	50.00
3	ARCH	1	EA	20.00	20.00
4	PLATE	1	EA	10.00	10.00
5	GLASS	1	EA	5.00	5.00
6	PAINT	1	EA	2.00	2.00
7	LABOR	1	EA	10.00	10.00
8	PERMITS	1	EA	5.00	5.00
9	TOTAL				207.00

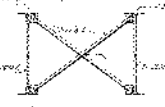


H. H. ROBERTSON COMPANY PRODUCTS  
 1000 BROADWAY, NEW YORK, N. Y.  
 ROBERTSON COMPANY  
 1000 BROADWAY, NEW YORK, N. Y.  
 ATLANTIC ROOFING & SKELIGHT WORKS  
 1000 BROADWAY, NEW YORK, N. Y.



NEW ENGLAND JUST CORP.  
SECTION II - MADE

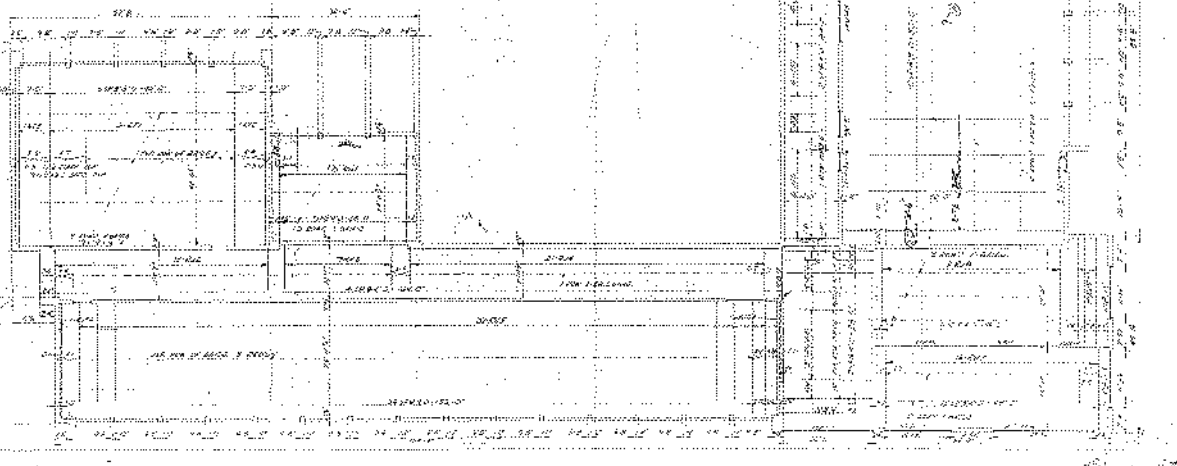
NO.	DATE	DESCRIPTION
1	1/15/22	...
2	2/10/22	...
3	3/5/22	...
4	4/1/22	...
5	5/1/22	...
6	6/1/22	...
7	7/1/22	...
8	8/1/22	...
9	9/1/22	...
10	10/1/22	...
11	11/1/22	...
12	12/1/22	...

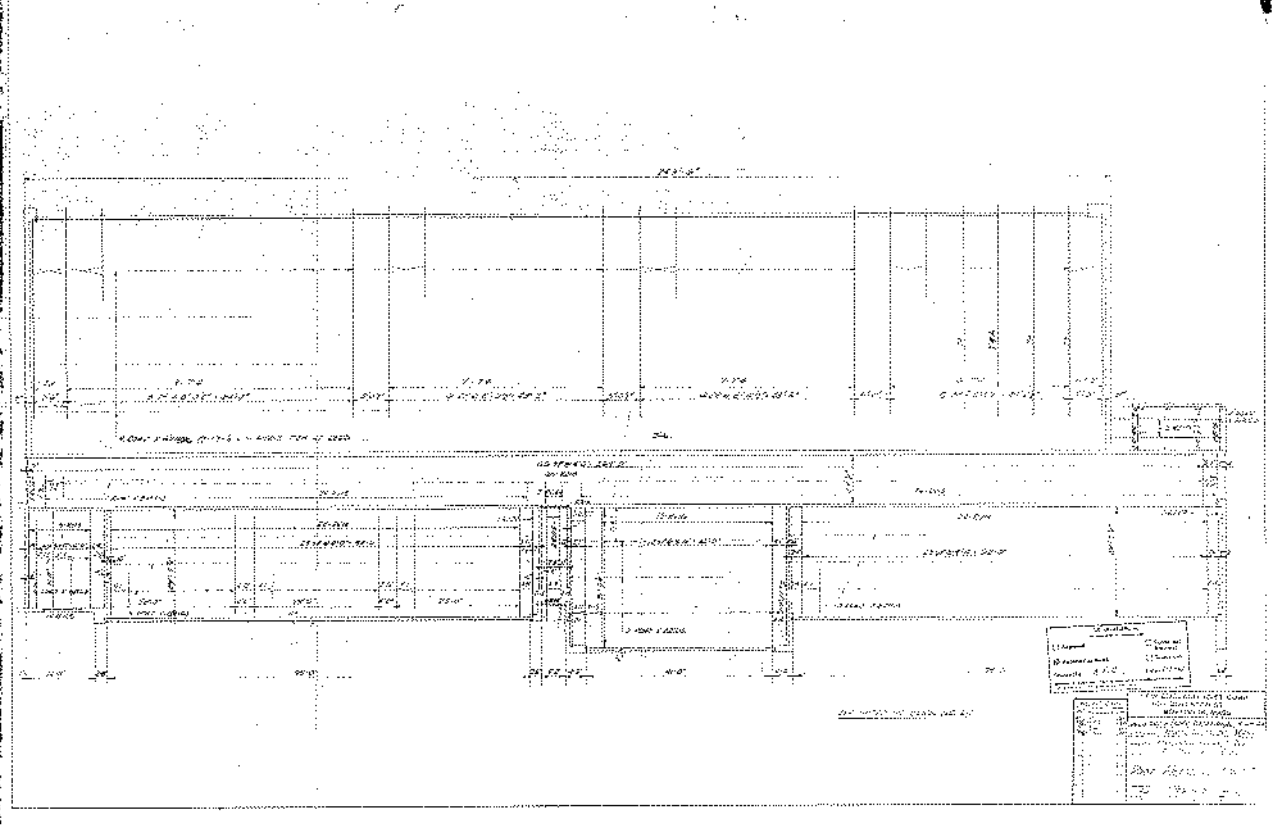


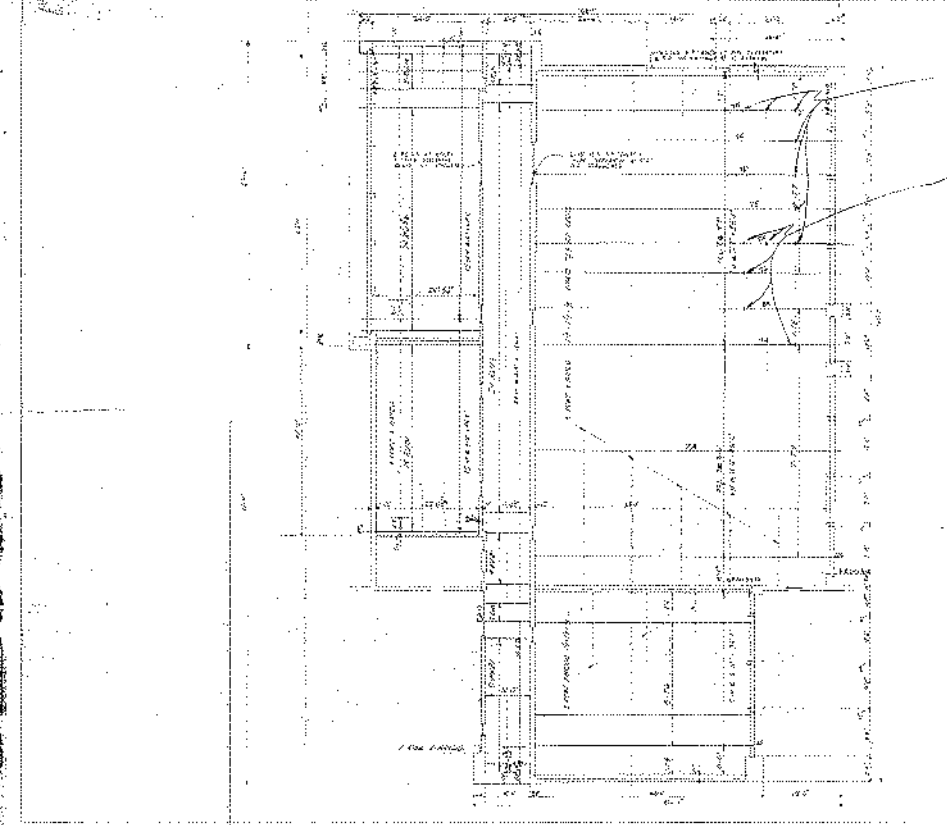
TRUSS DETAIL

NOTES:  
1. All work to be done in accordance with the specifications.  
2. All materials to be of the best quality.  
3. All work to be done in accordance with the drawings.  
4. All work to be done in accordance with the contract.  
5. All work to be done in accordance with the laws of the State of New York.

NEW ENGLAND JUST CORP.  
SECTION II - MADE



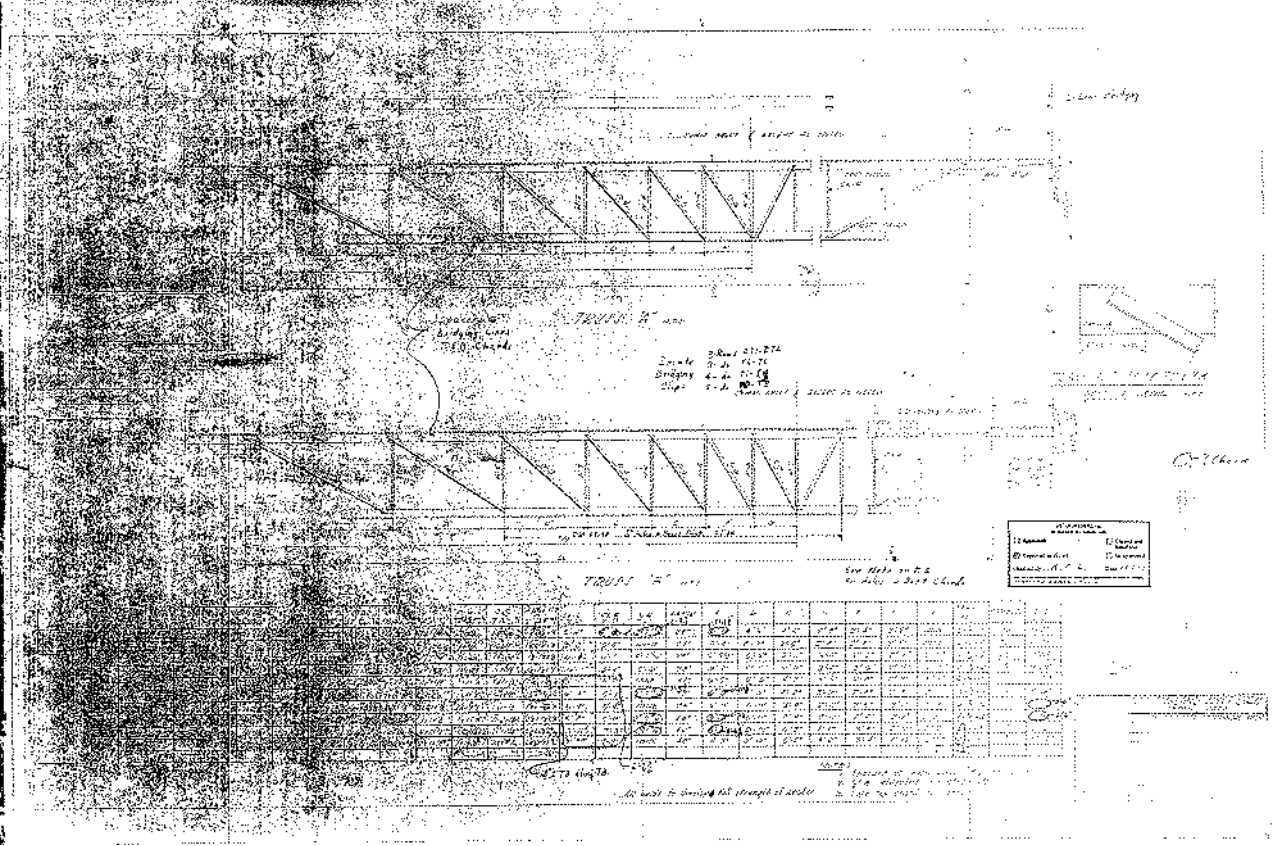




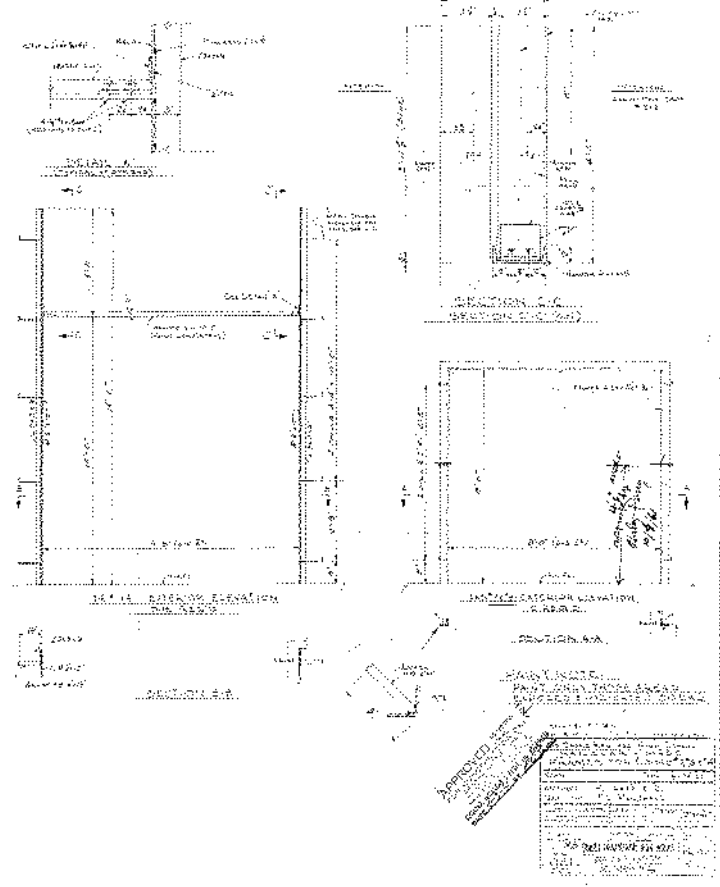
Bottom floor, note step provided  
 at point indicated, floor level is  
 same as that of floor

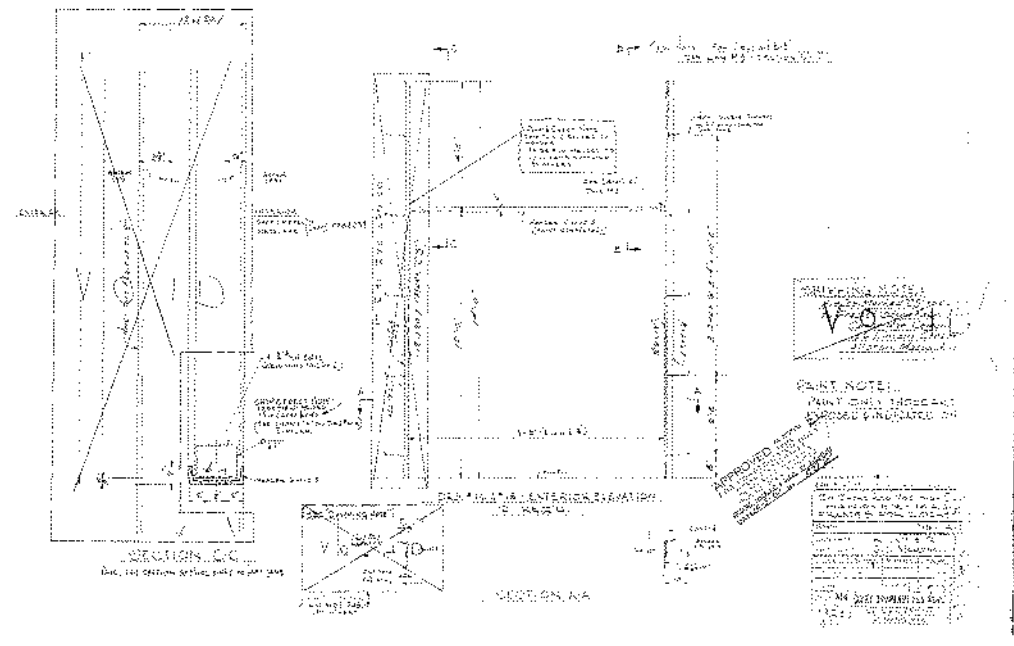
SEE ARCHITECT'S PLAN FOR  
 DIMENSIONS AND NOTES

NO.	DESCRIPTION	DATE
1	...	...
2	...	...
3	...	...
4	...	...
5	...	...
6	...	...
7	...	...
8	...	...
9	...	...
10	...	...

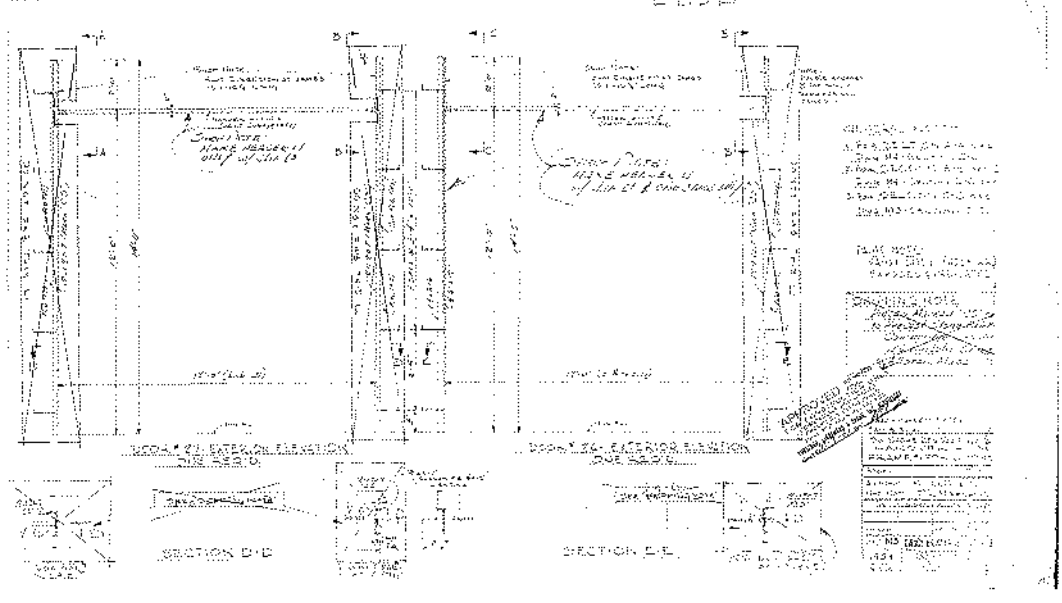


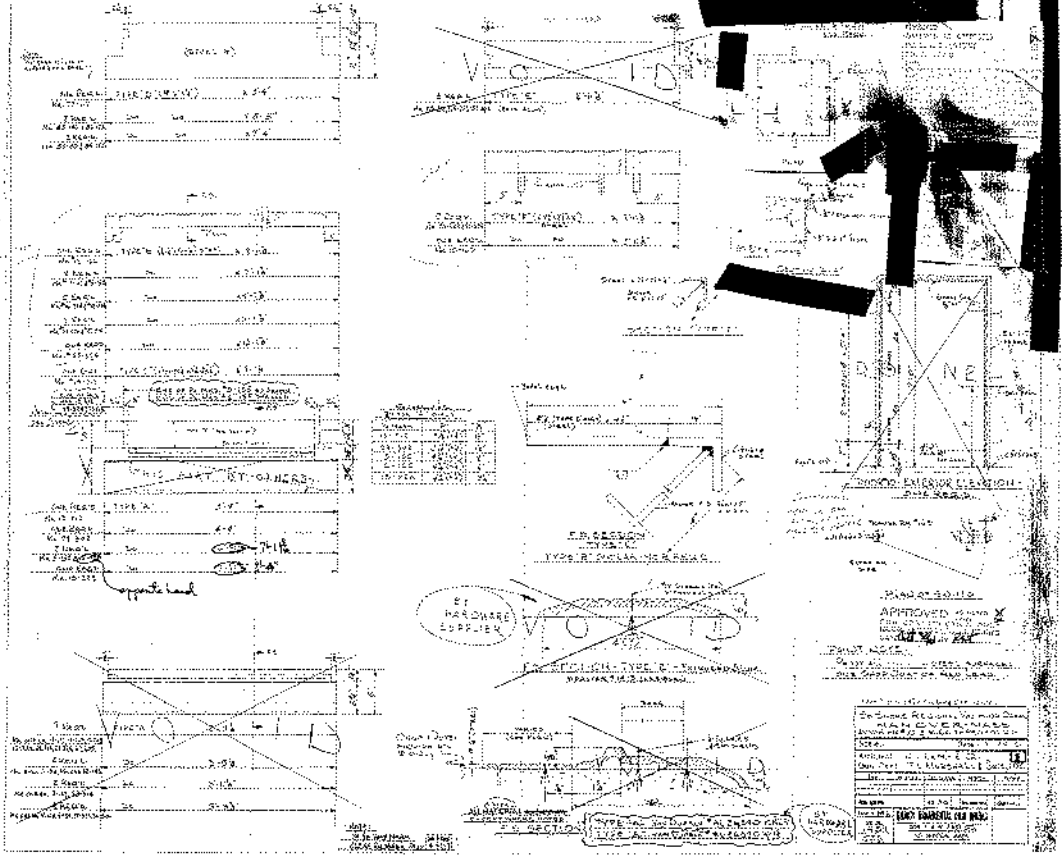
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

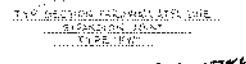
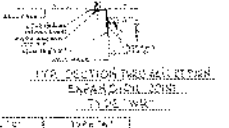




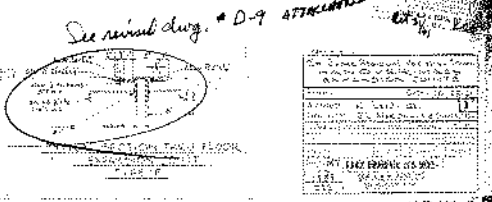








TYPE	TYPE A	TYPE B	TYPE C	TYPE D	TYPE E
NO.	1	2	3	4	5
MARK	101	102	103	104	105
LENGTH	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
MARK	101	102	103	104	105
LENGTH	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
MARK	101	102	103	104	105
LENGTH	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
MARK	101	102	103	104	105
LENGTH	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
MARK	101	102	103	104	105
LENGTH	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
MARK	101	102	103	104	105
LENGTH	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"



See revised drawing D-9 attached

APPROVED FOR CONSTRUCTION

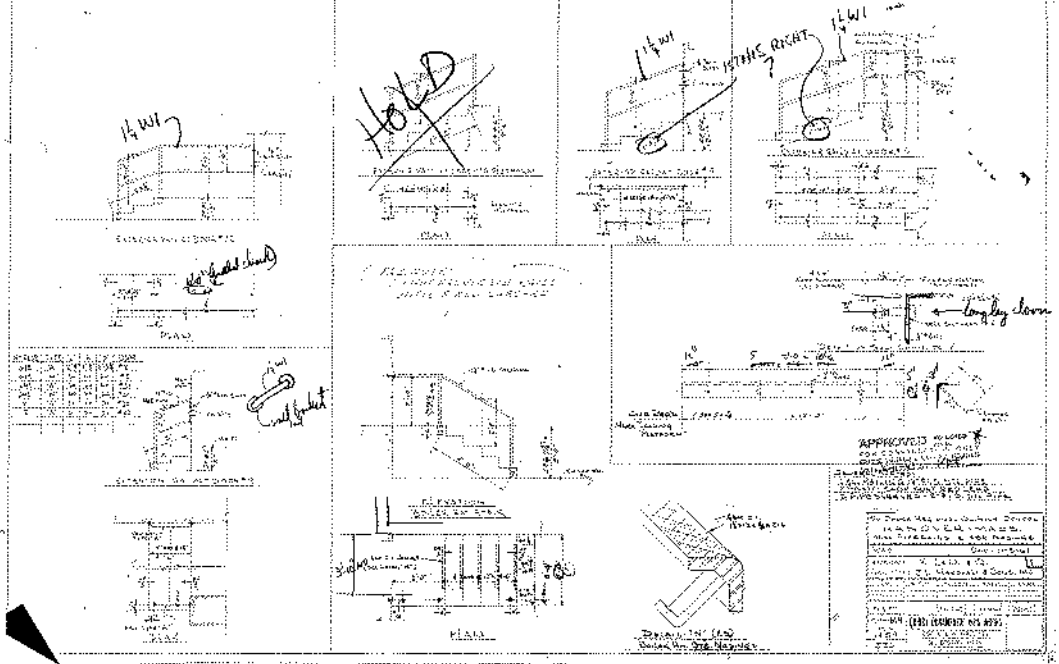
DATE: 1/21/55

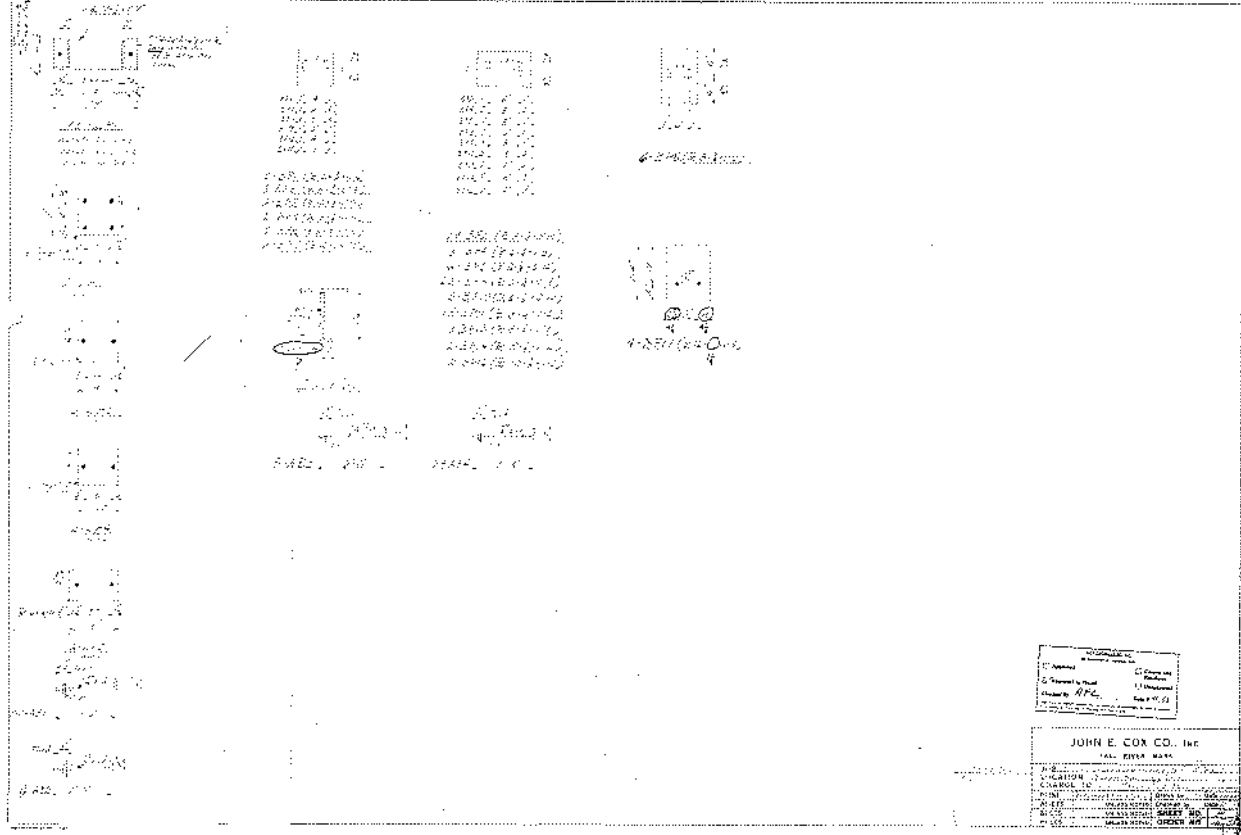
BY: [Signature]

PROJECT: [Project Name]

LOCATION: [Location]

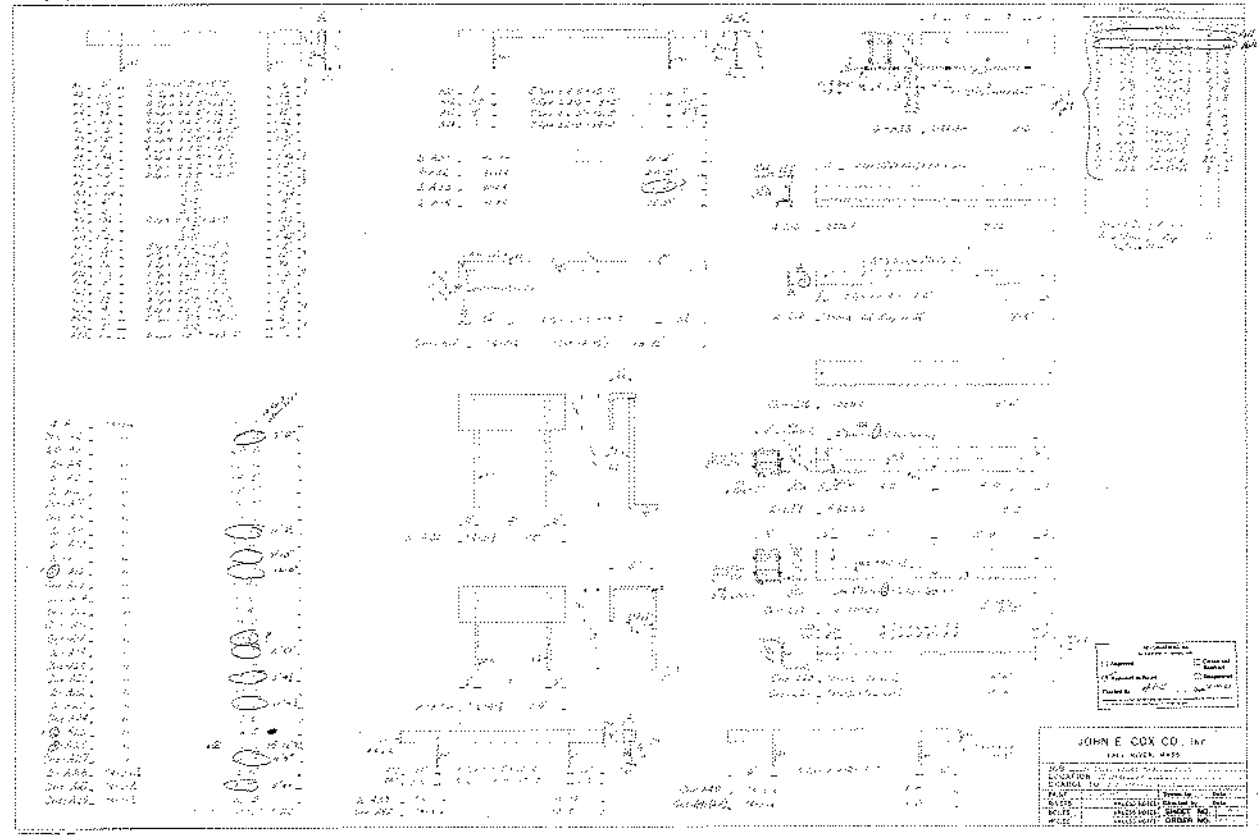
SCALE: [Scale]



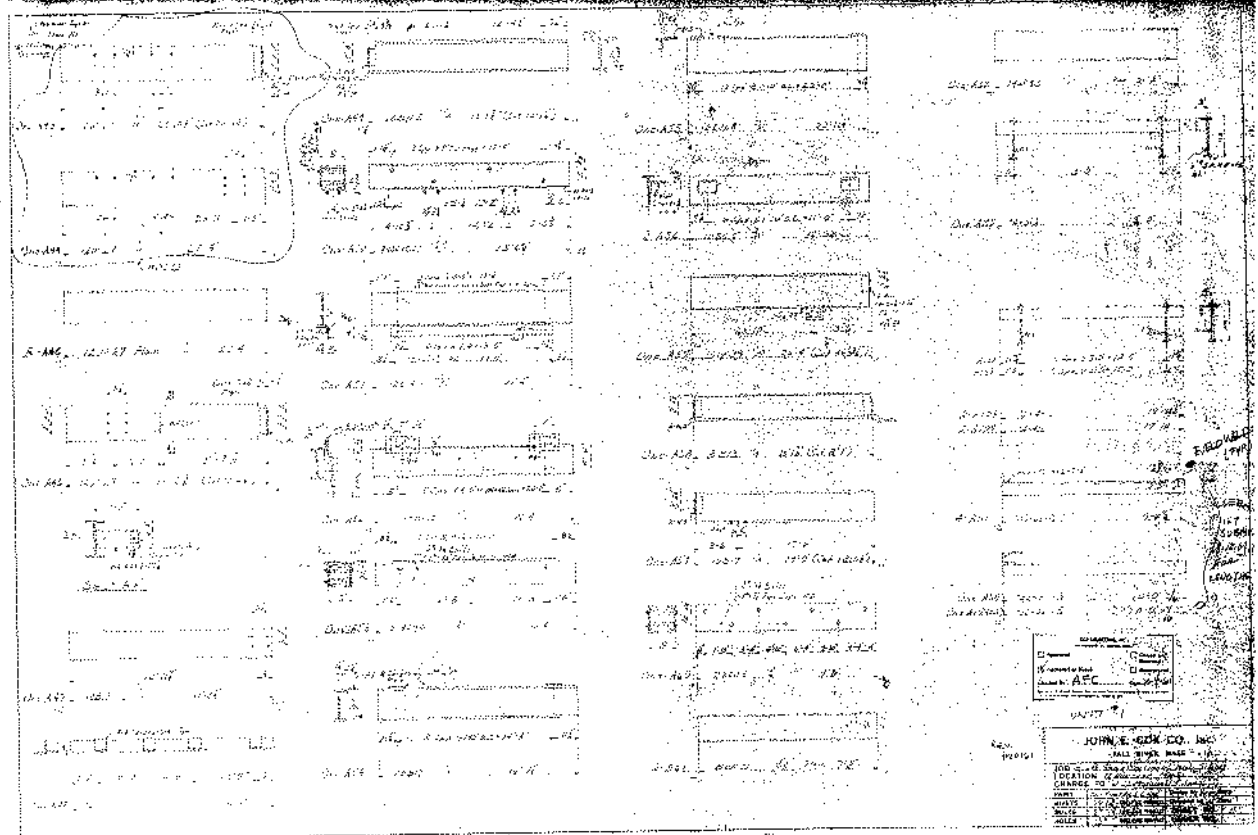


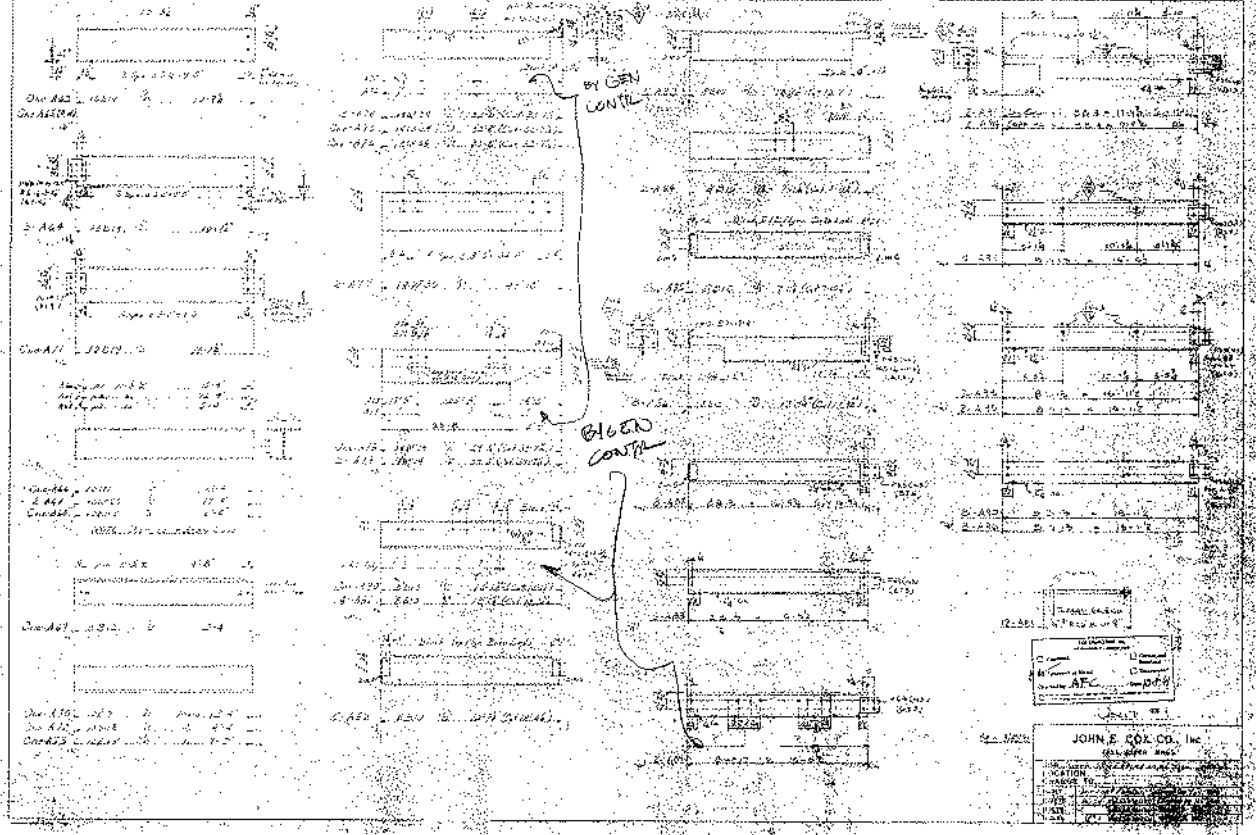
Approved  
 Checked by  
 Date: 1/1/00

**JOHN E. COX CO., INC.**  
 FULL SERVICE  
 1000 N. ...  
 ...  
 ...

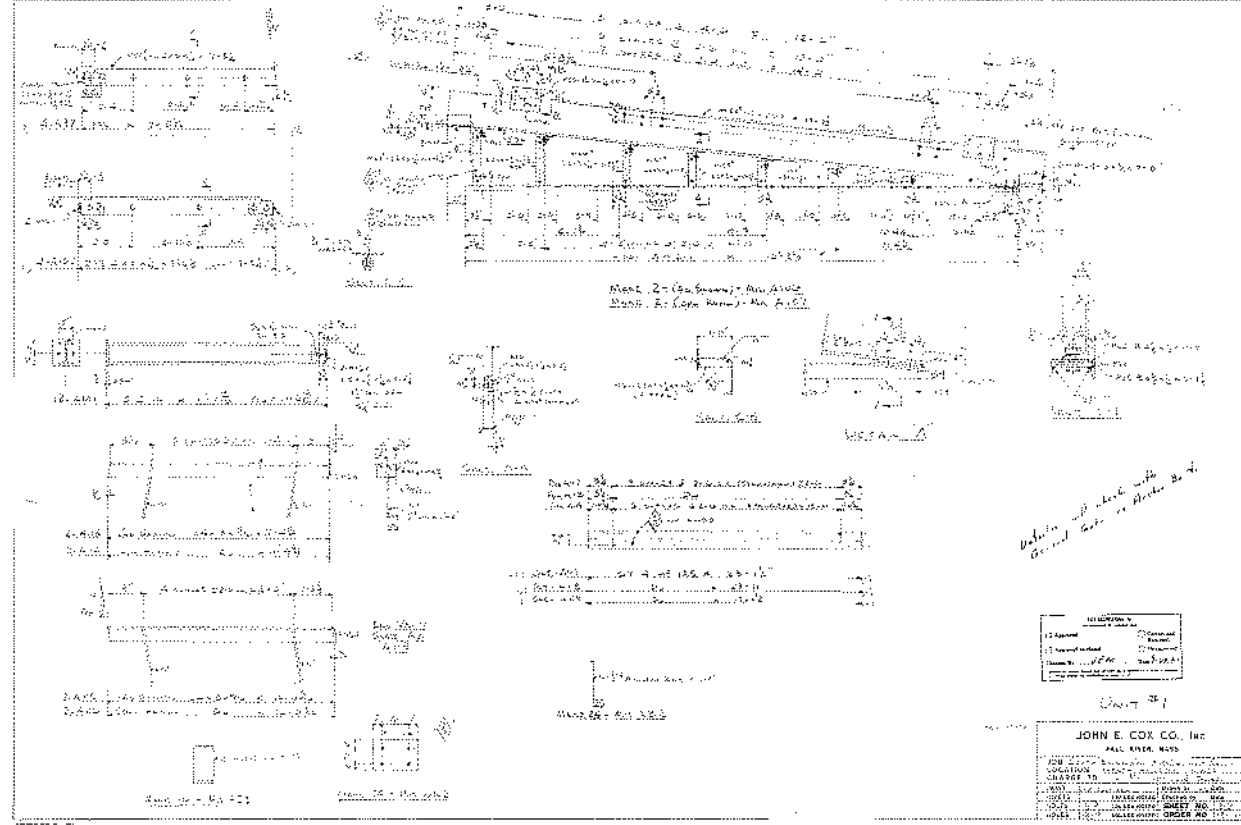












Sheet 2 - (Continued) See Sheet 1 for details.

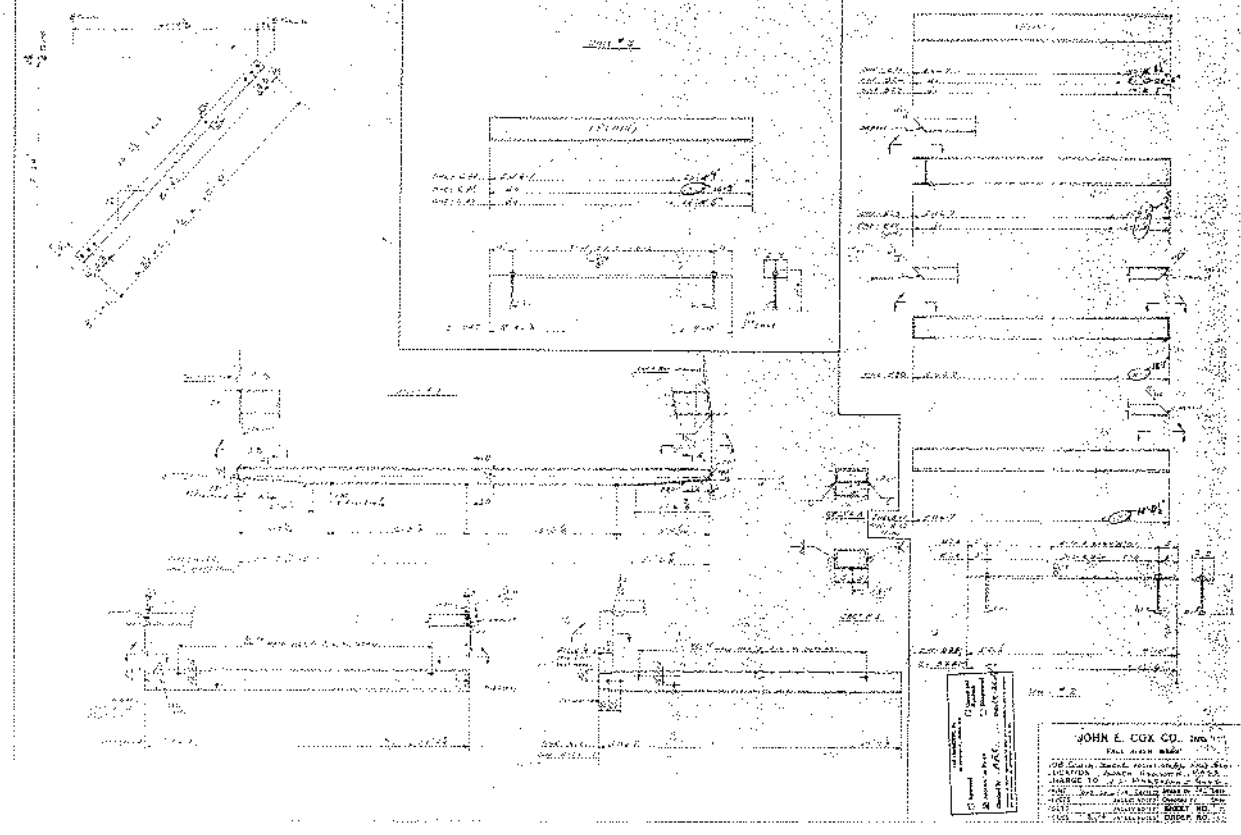
Notes:  
 1. All dimensions are in feet and inches.  
 2. See Sheet 1 for details of other sheets.  
 3. All work to be done in accordance with the specifications.

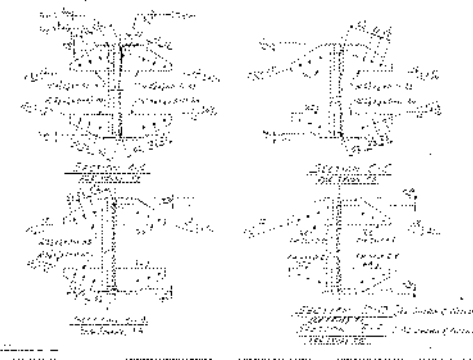
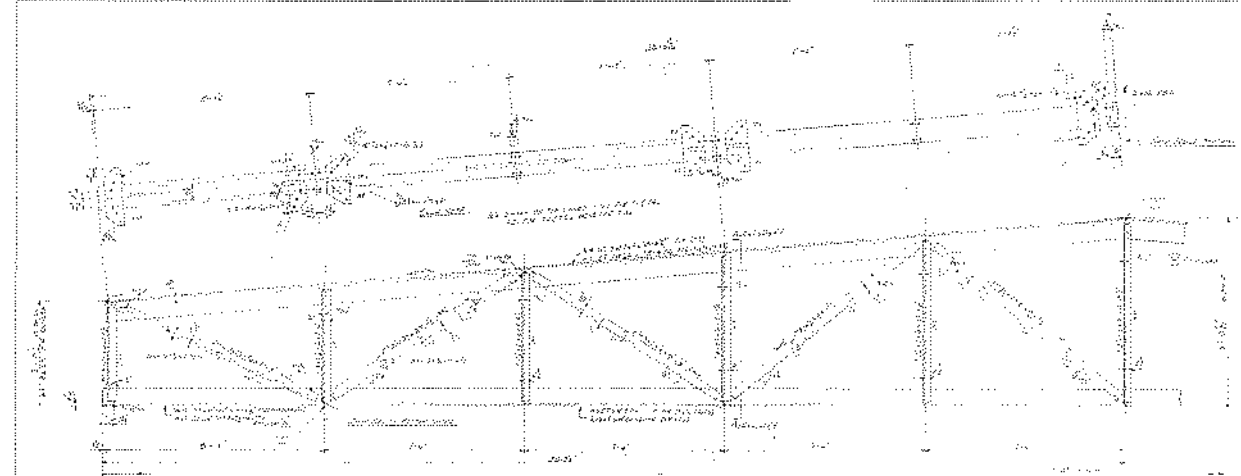
*Check all work with  
 original set of sheets.*

1. Approved	2. Revised
3. Deleted	4. Proposed
5. Added	6. Deleted

Sheet 2 of 2

JOHN E. COX CO., INC.	
MECH. ENGRS.	
1. Name	2. Address
3. City	4. State
5. Phone	6. Fax



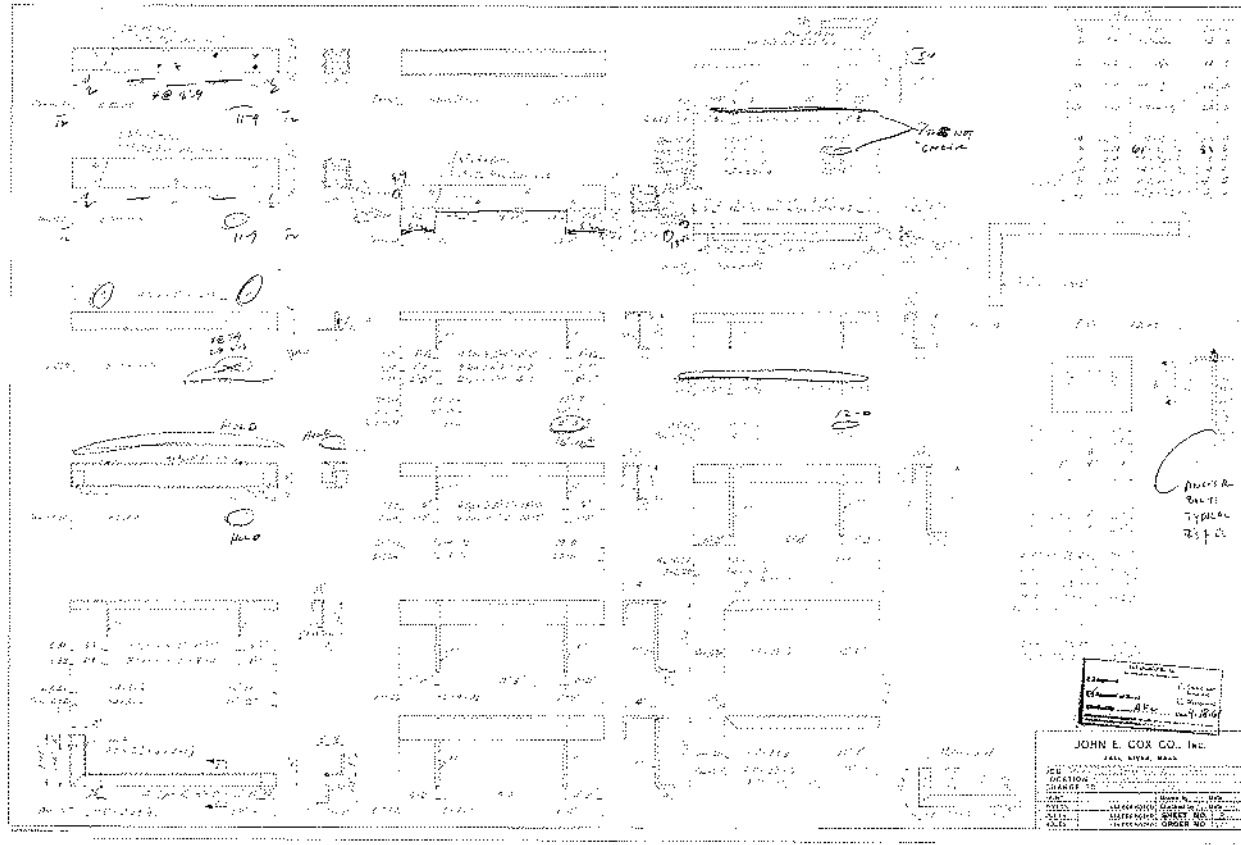


Joint A  
 Joint B  
 Joint C  
 Joint D  
 Joint E

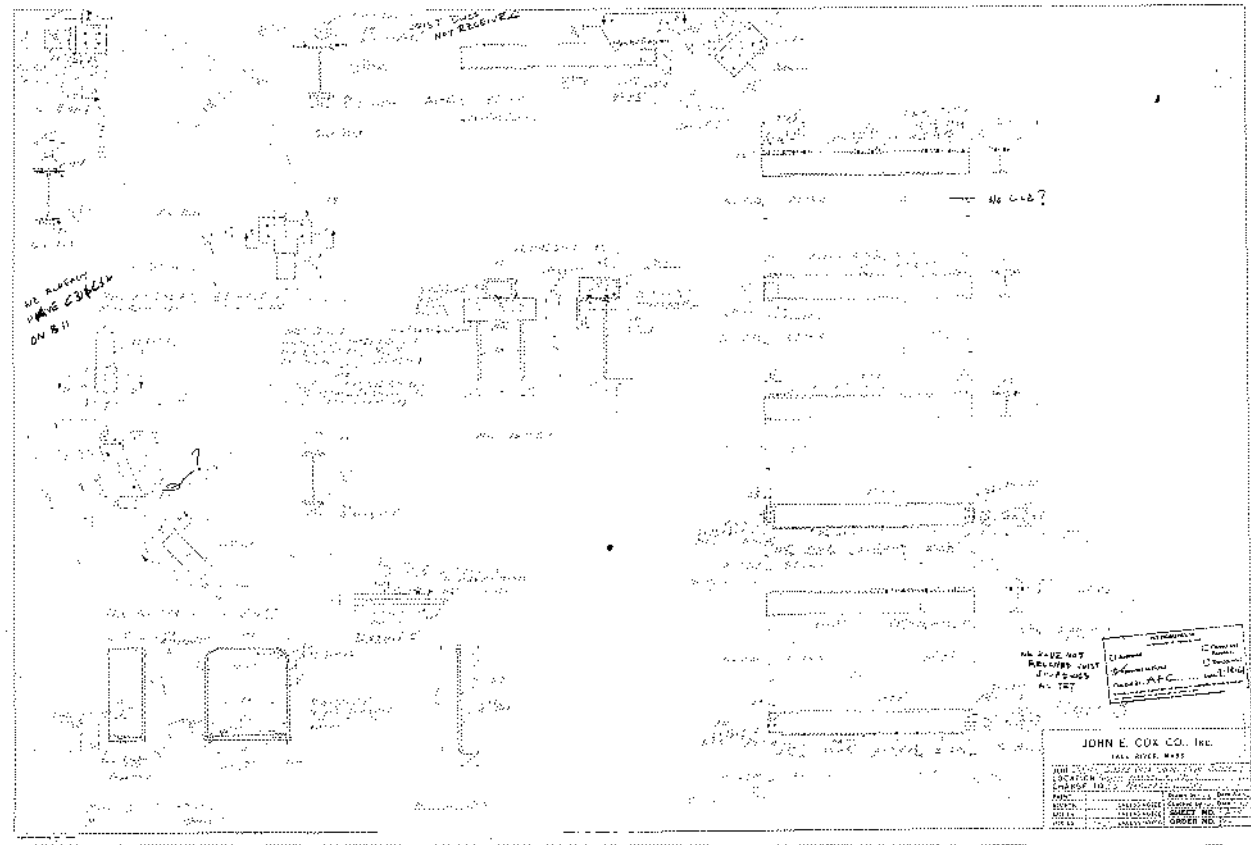
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Note:  
 1. SEE PLAN AT 1/4" = 1'-0"

JOHN E. COX CO., INC.  
 100 N. 10th St.  
 Chicago, Ill.  
 1925

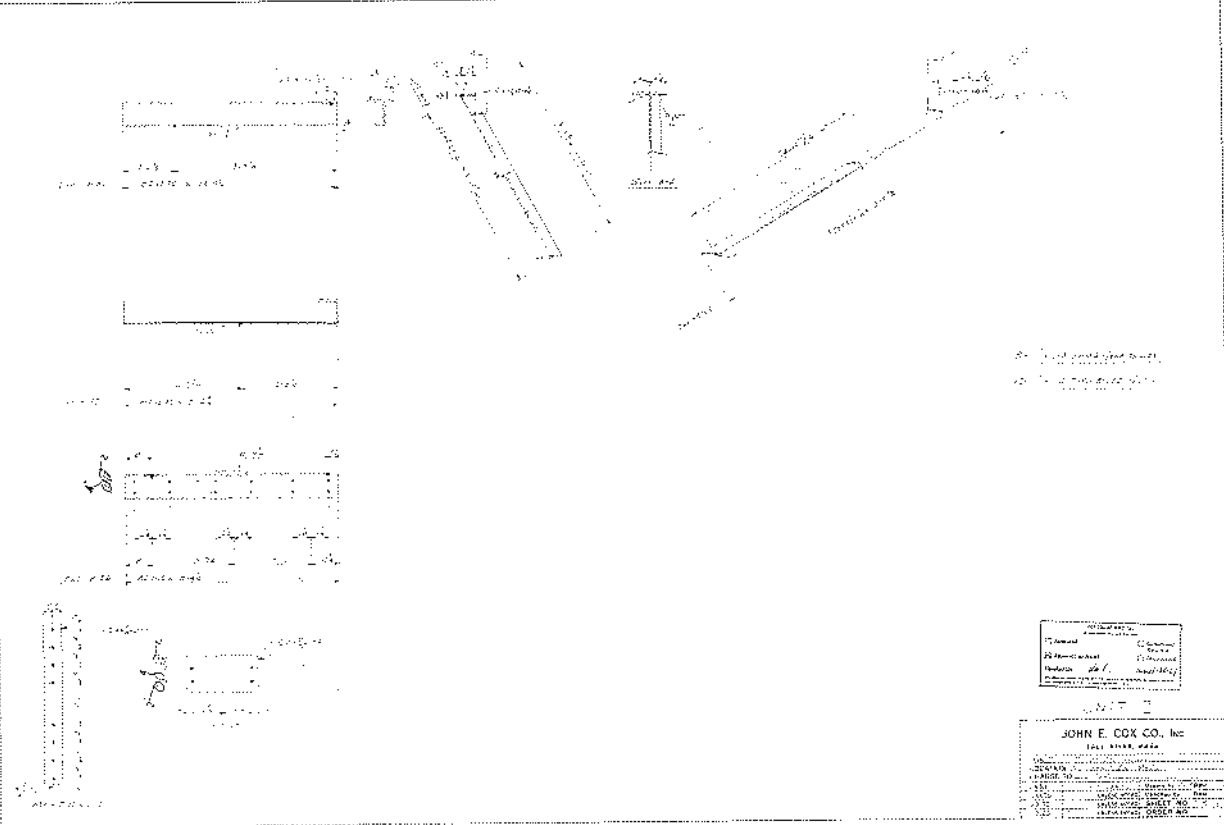






CLAIMED  
 RELEASED  
 RECOVERED  
 RETURNED  
 OTHER

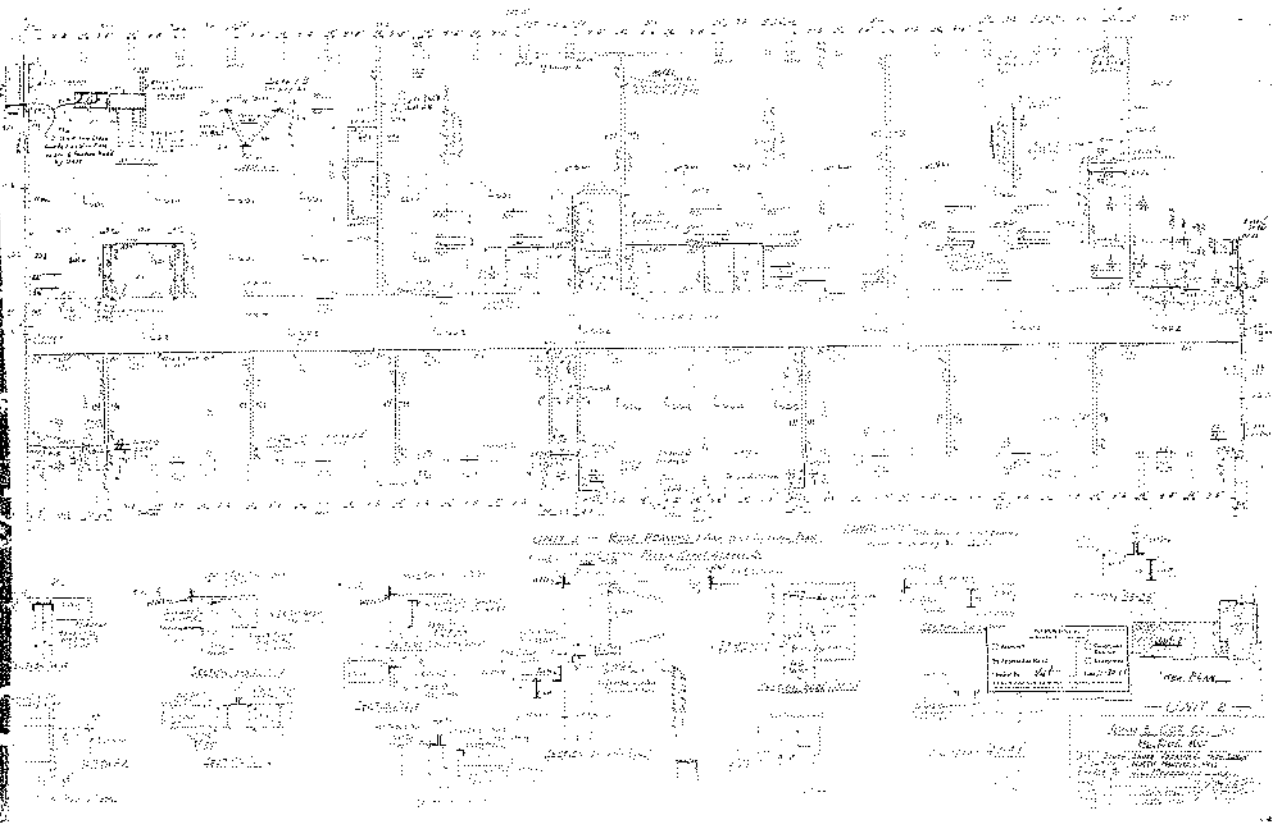
JOHN E. COX CO., Inc.  
 1000 WASHINGTON ST.  
 BOSTON, MASS. 02108  
 TEL: 552-1111  
 FAX: 552-1111



1. 1st floor plan  
 2. 2nd floor plan

Class	Class
Room	Room
Room	Room
Room	Room

JOHN E. COX CO., Inc	
1001 15th St., N.W.	
Washington, D.C.	
Phone: 337-1234	
Fax: 337-5678	
E-mail: jecox@jcc.com	

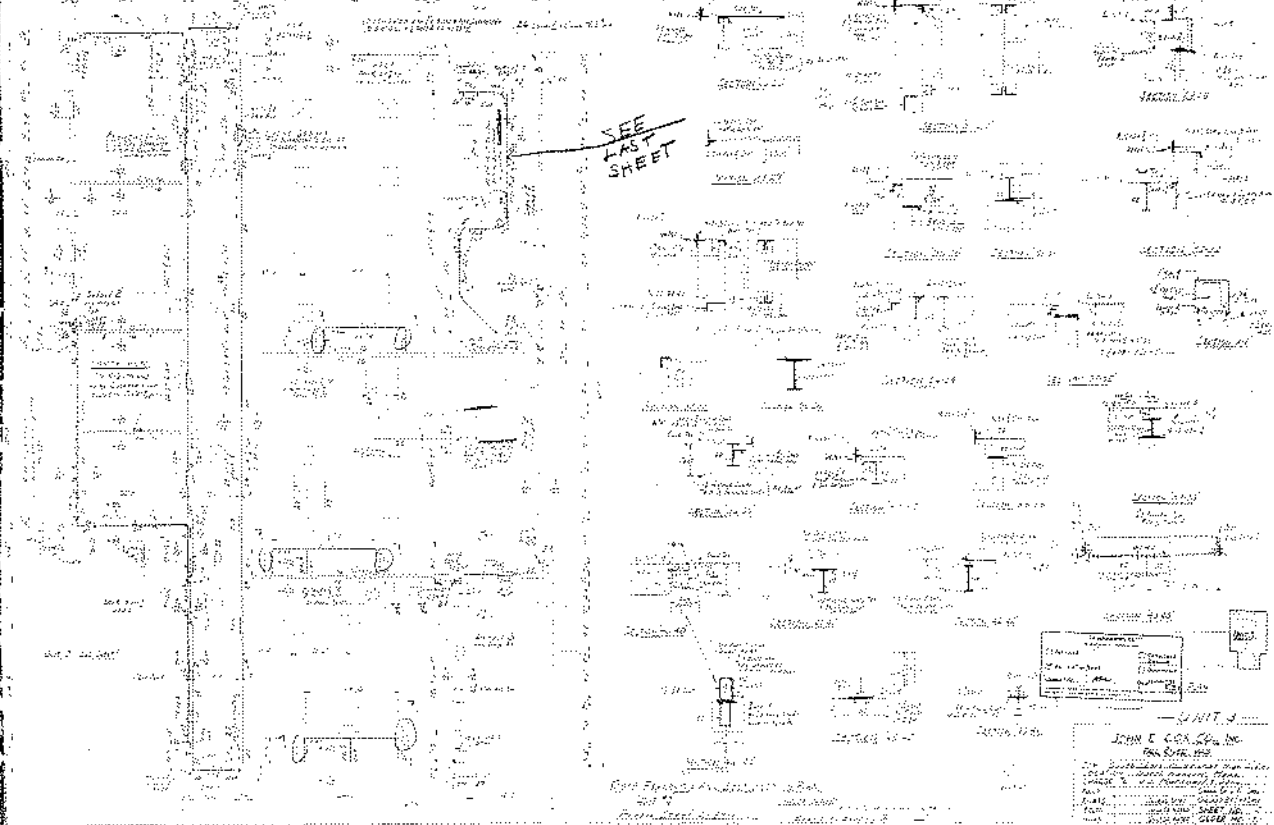


UNIT 1 - East Wing, 1st Floor, 1st Floor  
Unit 1 - East Wing, 1st Floor, 1st Floor

Room No.	Room Name	Area
101	Office	100
102	Office	100
103	Office	100
104	Office	100
105	Office	100
106	Office	100
107	Office	100
108	Office	100
109	Office	100
110	Office	100
111	Office	100
112	Office	100
113	Office	100
114	Office	100
115	Office	100
116	Office	100
117	Office	100
118	Office	100
119	Office	100
120	Office	100

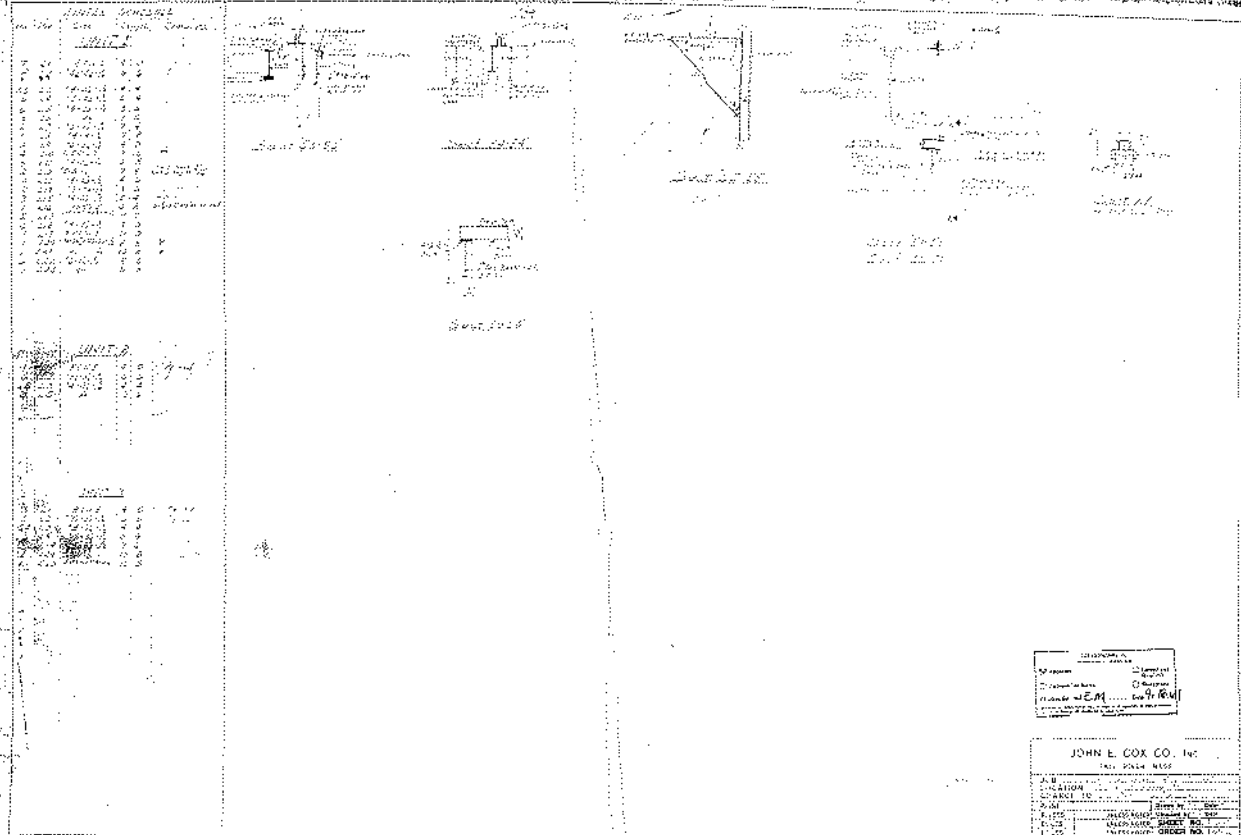
UNIT 2 - East Wing, 2nd Floor, 2nd Floor  
Unit 2 - East Wing, 2nd Floor, 2nd Floor

SEE  
LAST  
SHEET



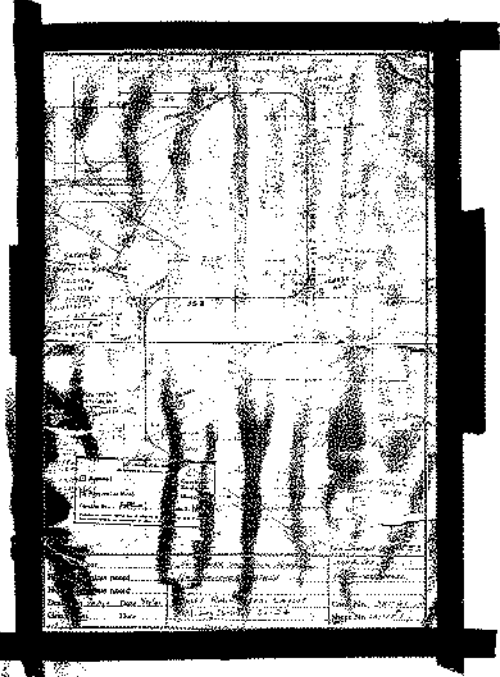
— UNIT —

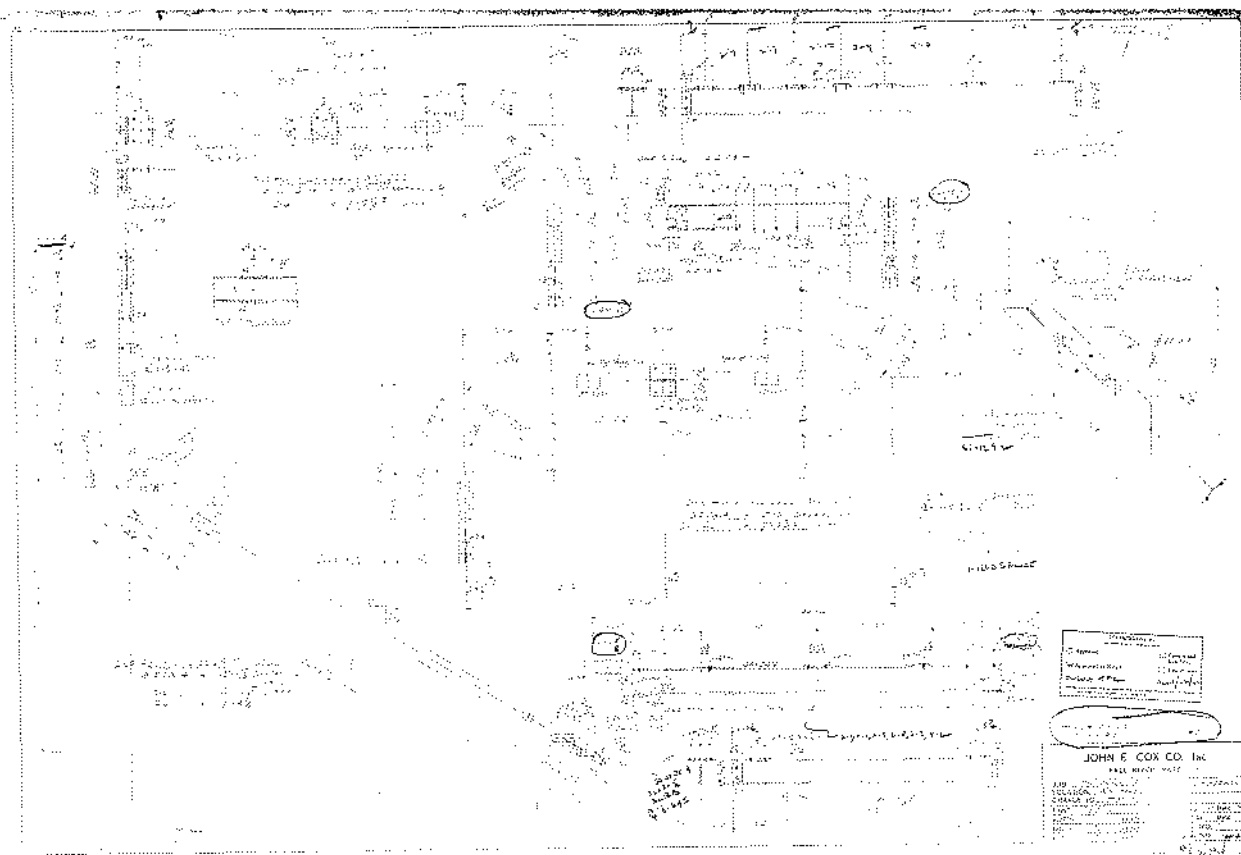
JOHN C. COX, INC.	
SALES OFFICE	
1. Description of Work	2. Name of Client
3. Date of Issue	4. Date of Revision
5. Name of Engineer	6. Name of Designer
7. Name of Checker	8. Name of Approver
9. Name of Project Manager	10. Name of Client Representative



M. J. ...  
 J. E. ...  
 J. E. ...  
 J. E. ...

JOHN E. COX CO., Inc.  
 100 ...  
 ...  
 ...  
 ...





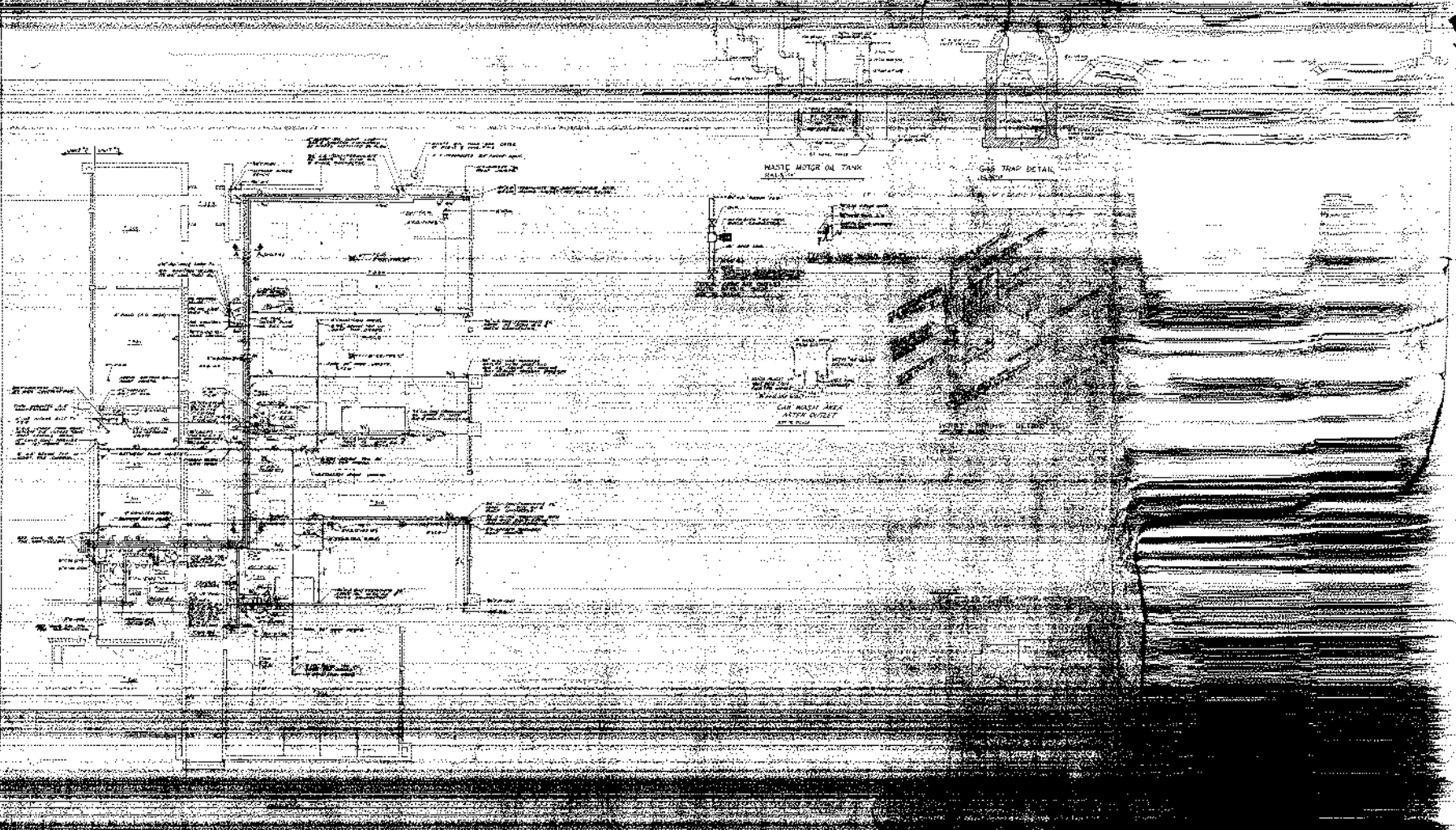
Scale	1/4" = 1'-0"
Author	J.E. Cox
Check	J.E. Cox
Date	11/1/54
Project	100-1000

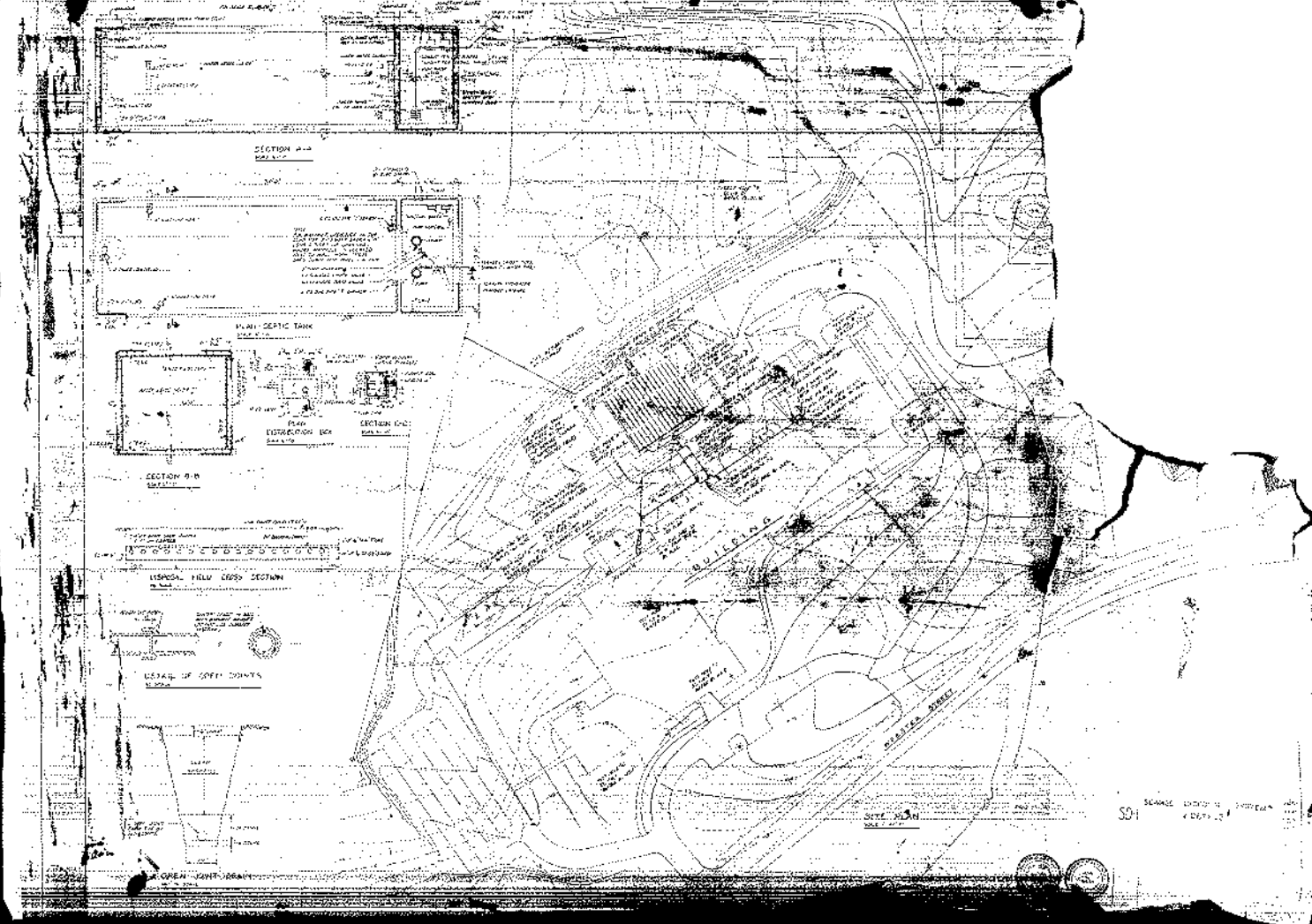
JOHN E. COX CO. INC.  
 111 BROADWAY

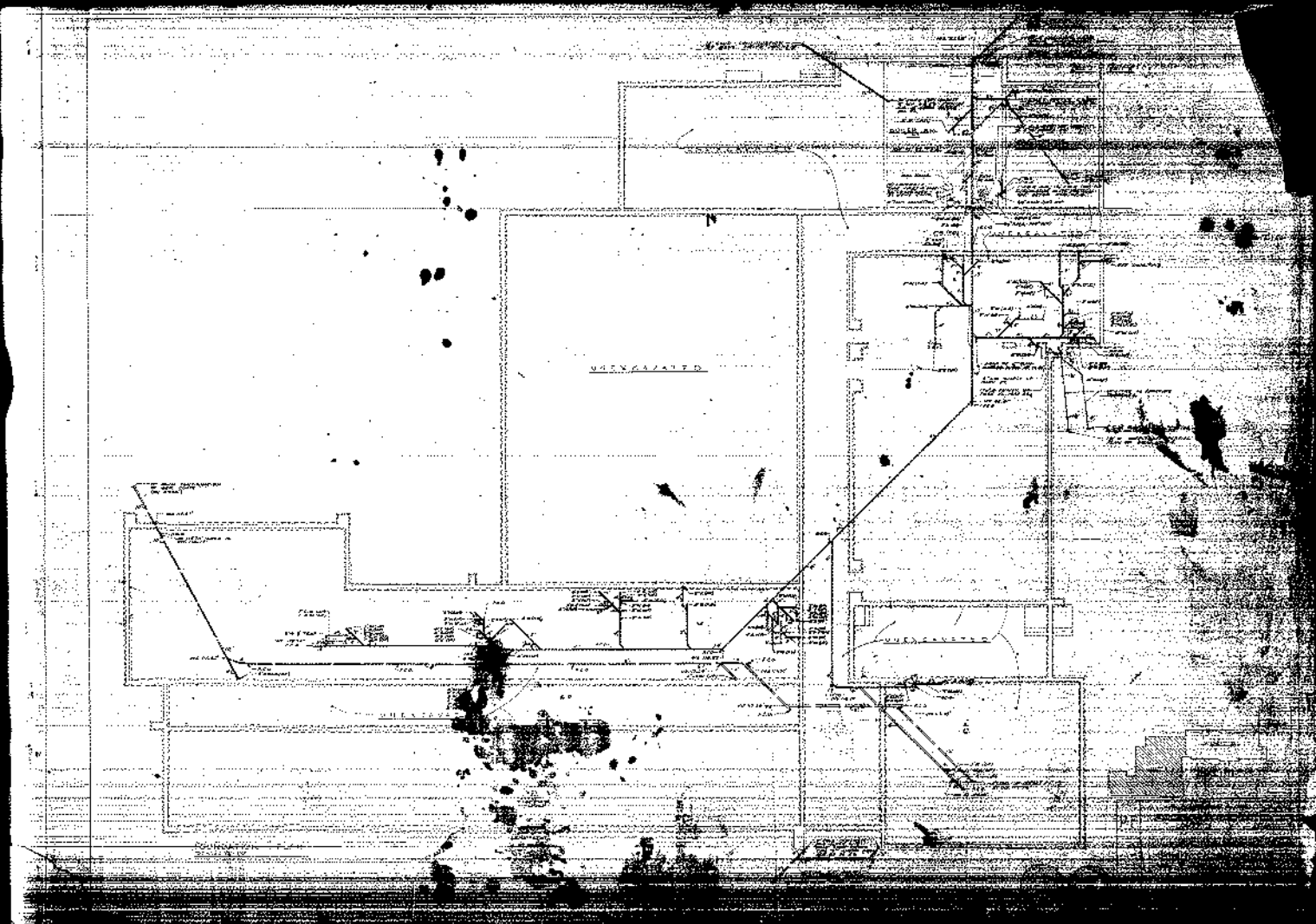
NO.	DATE	DESCRIPTION
1	11/1/54	ISSUED FOR PERMIT
2	11/1/54	ISSUED FOR CONSTRUCTION
3	11/1/54	ISSUED FOR RECORD

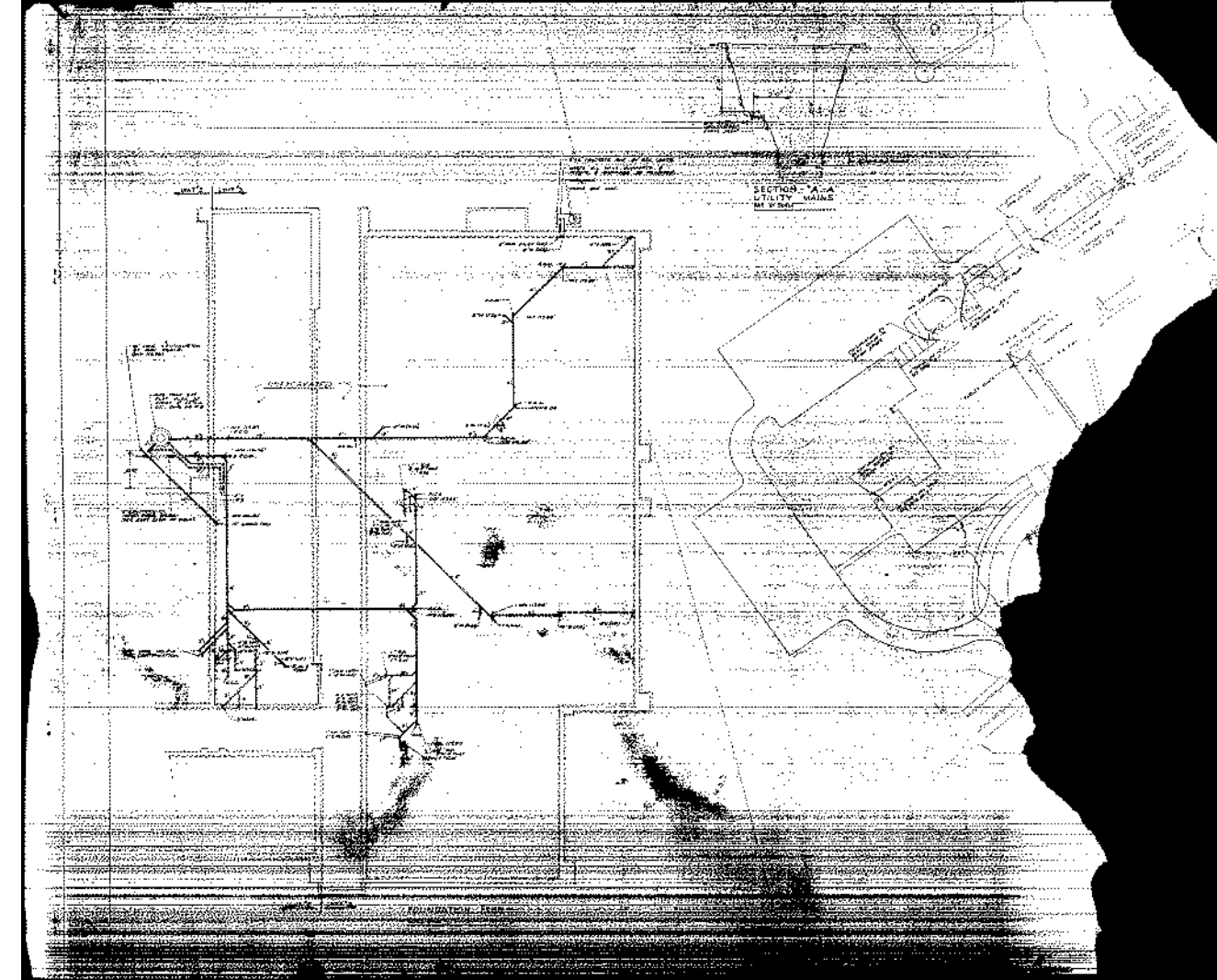




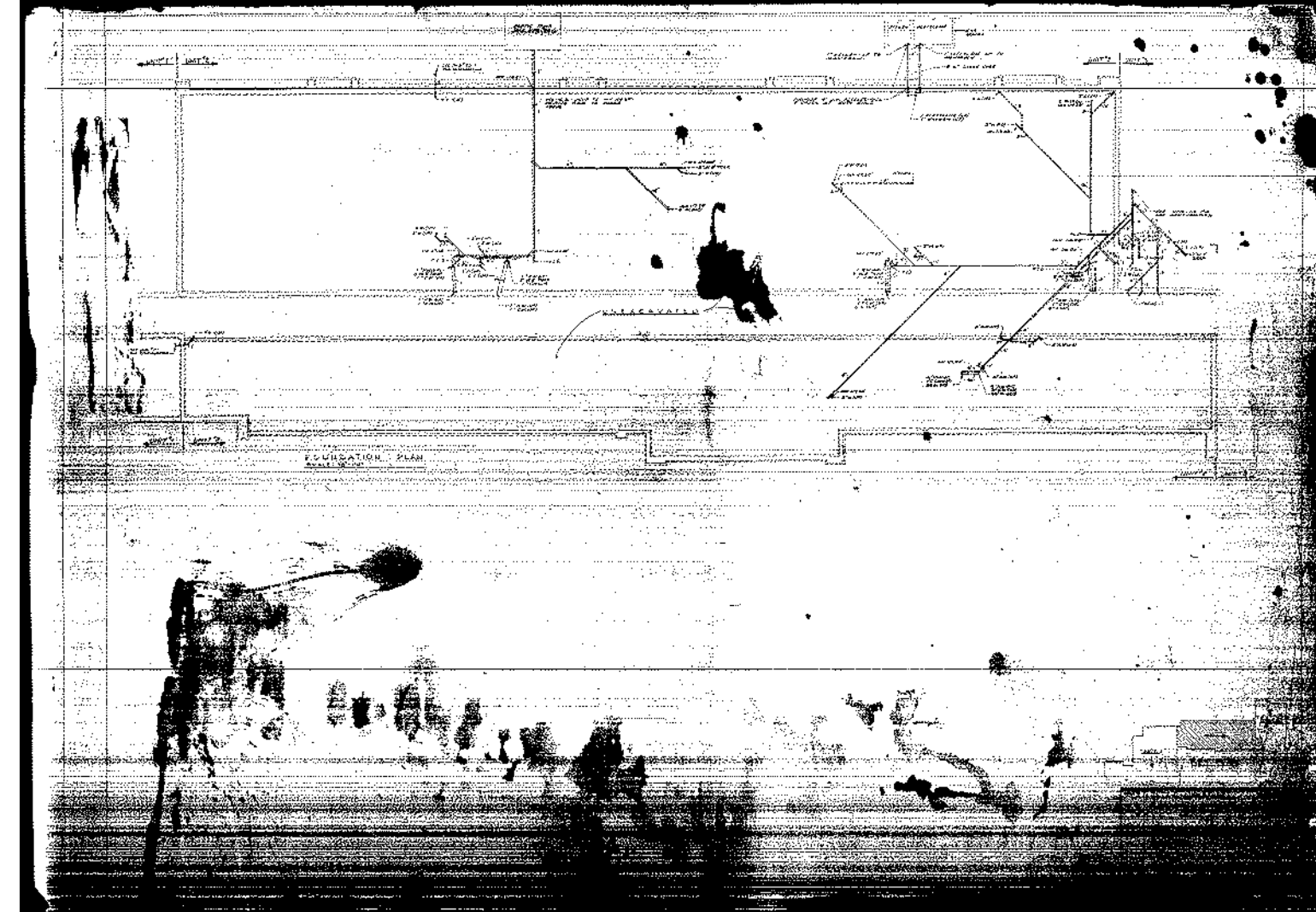




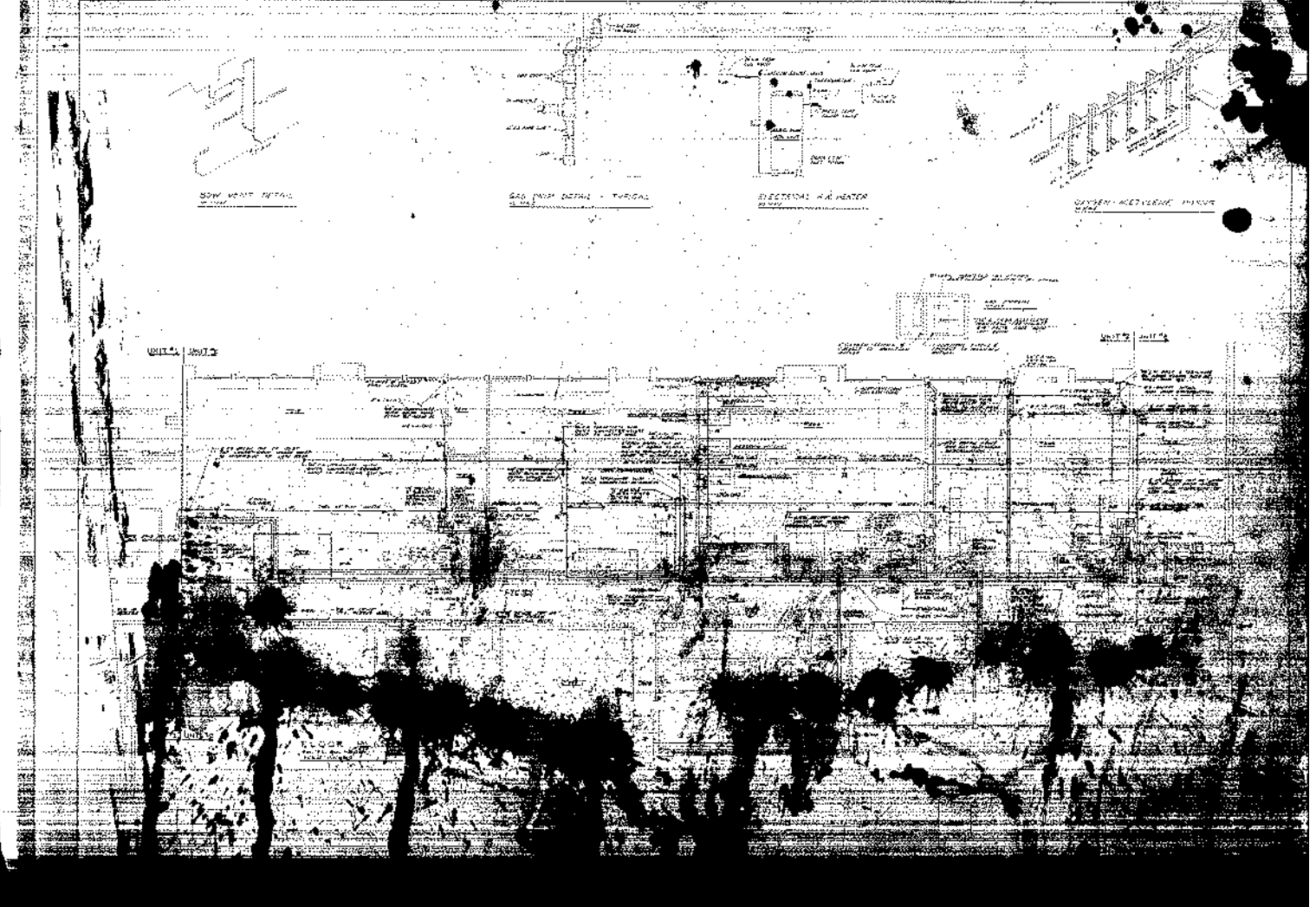












THE PHILIP MANUFACTURING COMPANY  
EASTHAMPTON, MASS.

NO.	DATE	DESCRIPTION	AMOUNT	BALANCE
1	1910	...	...	...
2	1910	...	...	...
3	1910	...	...	...
4	1910	...	...	...
5	1910	...	...	...
6	1910	...	...	...
7	1910	...	...	...
8	1910	...	...	...
9	1910	...	...	...
10	1910	...	...	...
11	1910	...	...	...
12	1910	...	...	...
13	1910	...	...	...
14	1910	...	...	...
15	1910	...	...	...
16	1910	...	...	...
17	1910	...	...	...
18	1910	...	...	...
19	1910	...	...	...
20	1910	...	...	...
21	1910	...	...	...
22	1910	...	...	...
23	1910	...	...	...
24	1910	...	...	...
25	1910	...	...	...
26	1910	...	...	...
27	1910	...	...	...
28	1910	...	...	...
29	1910	...	...	...
30	1910	...	...	...
31	1910	...	...	...
32	1910	...	...	...
33	1910	...	...	...
34	1910	...	...	...
35	1910	...	...	...
36	1910	...	...	...
37	1910	...	...	...
38	1910	...	...	...
39	1910	...	...	...
40	1910	...	...	...
41	1910	...	...	...
42	1910	...	...	...
43	1910	...	...	...
44	1910	...	...	...
45	1910	...	...	...
46	1910	...	...	...
47	1910	...	...	...
48	1910	...	...	...
49	1910	...	...	...
50	1910	...	...	...
51	1910	...	...	...
52	1910	...	...	...
53	1910	...	...	...
54	1910	...	...	...
55	1910	...	...	...
56	1910	...	...	...
57	1910	...	...	...
58	1910	...	...	...
59	1910	...	...	...
60	1910	...	...	...
61	1910	...	...	...
62	1910	...	...	...
63	1910	...	...	...
64	1910	...	...	...
65	1910	...	...	...
66	1910	...	...	...
67	1910	...	...	...
68	1910	...	...	...
69	1910	...	...	...
70	1910	...	...	...
71	1910	...	...	...
72	1910	...	...	...
73	1910	...	...	...
74	1910	...	...	...
75	1910	...	...	...
76	1910	...	...	...
77	1910	...	...	...
78	1910	...	...	...
79	1910	...	...	...
80	1910	...	...	...
81	1910	...	...	...
82	1910	...	...	...
83	1910	...	...	...
84	1910	...	...	...
85	1910	...	...	...
86	1910	...	...	...
87	1910	...	...	...
88	1910	...	...	...
89	1910	...	...	...
90	1910	...	...	...
91	1910	...	...	...
92	1910	...	...	...
93	1910	...	...	...
94	1910	...	...	...
95	1910	...	...	...
96	1910	...	...	...
97	1910	...	...	...
98	1910	...	...	...
99	1910	...	...	...
100	1910	...	...	...

APPROVED BY  
[Signature]  
[Title]

NO.	NAME	TIME IN	TIME OUT	WORKER NO.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				

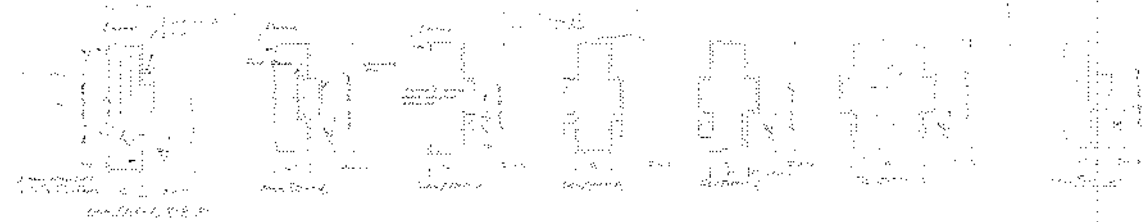
APPROVED AND  
FORWARDED  
BY  
SUPERVISOR  
DATE

THE PHILIP MANUFACTURING COMPANY  
Easthampton, Mass.

ENGINEER  
LOCATION  
SUPERVISOR  
AGENCY  
AGENT

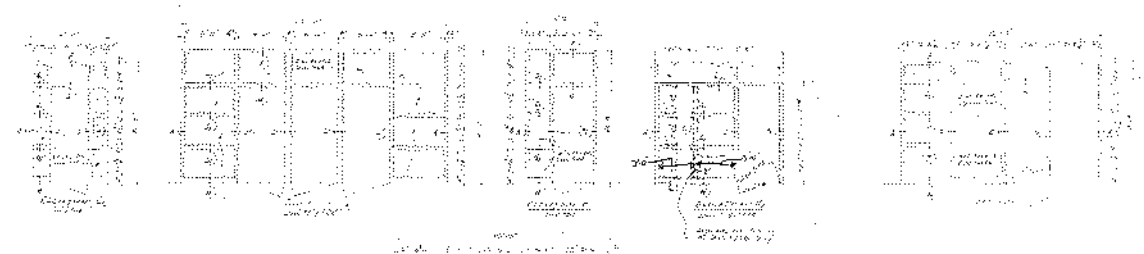
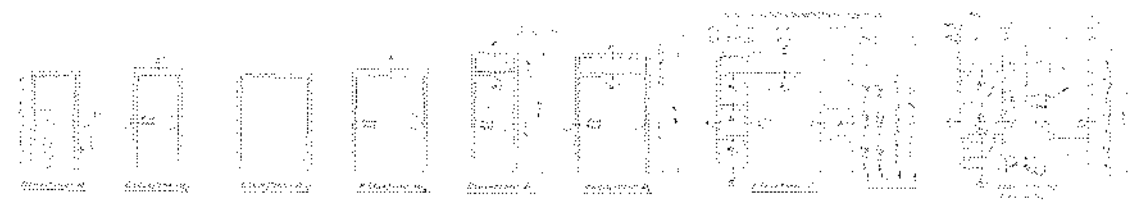
NO.	DATE	DESCRIPTION	AMOUNT	REMARKS
1	1911	...	...	...
2	1911	...	...	...
3	1911	...	...	...
4	1911	...	...	...
5	1911	...	...	...
6	1911	...	...	...
7	1911	...	...	...
8	1911	...	...	...
9	1911	...	...	...
10	1911	...	...	...
11	1911	...	...	...
12	1911	...	...	...
13	1911	...	...	...
14	1911	...	...	...
15	1911	...	...	...
16	1911	...	...	...
17	1911	...	...	...
18	1911	...	...	...
19	1911	...	...	...
20	1911	...	...	...
21	1911	...	...	...
22	1911	...	...	...
23	1911	...	...	...
24	1911	...	...	...
25	1911	...	...	...
26	1911	...	...	...
27	1911	...	...	...
28	1911	...	...	...
29	1911	...	...	...
30	1911	...	...	...
31	1911	...	...	...
32	1911	...	...	...
33	1911	...	...	...
34	1911	...	...	...
35	1911	...	...	...
36	1911	...	...	...
37	1911	...	...	...
38	1911	...	...	...
39	1911	...	...	...
40	1911	...	...	...
41	1911	...	...	...
42	1911	...	...	...
43	1911	...	...	...
44	1911	...	...	...
45	1911	...	...	...
46	1911	...	...	...
47	1911	...	...	...
48	1911	...	...	...
49	1911	...	...	...
50	1911	...	...	...
51	1911	...	...	...
52	1911	...	...	...
53	1911	...	...	...
54	1911	...	...	...
55	1911	...	...	...
56	1911	...	...	...
57	1911	...	...	...
58	1911	...	...	...
59	1911	...	...	...
60	1911	...	...	...
61	1911	...	...	...
62	1911	...	...	...
63	1911	...	...	...
64	1911	...	...	...
65	1911	...	...	...
66	1911	...	...	...
67	1911	...	...	...
68	1911	...	...	...
69	1911	...	...	...
70	1911	...	...	...
71	1911	...	...	...
72	1911	...	...	...
73	1911	...	...	...
74	1911	...	...	...
75	1911	...	...	...
76	1911	...	...	...
77	1911	...	...	...
78	1911	...	...	...
79	1911	...	...	...
80	1911	...	...	...
81	1911	...	...	...
82	1911	...	...	...
83	1911	...	...	...
84	1911	...	...	...
85	1911	...	...	...
86	1911	...	...	...
87	1911	...	...	...
88	1911	...	...	...
89	1911	...	...	...
90	1911	...	...	...
91	1911	...	...	...
92	1911	...	...	...
93	1911	...	...	...
94	1911	...	...	...
95	1911	...	...	...
96	1911	...	...	...
97	1911	...	...	...
98	1911	...	...	...
99	1911	...	...	...
100	1911	...	...	...

APPROVED  
FOR  
SIGNED

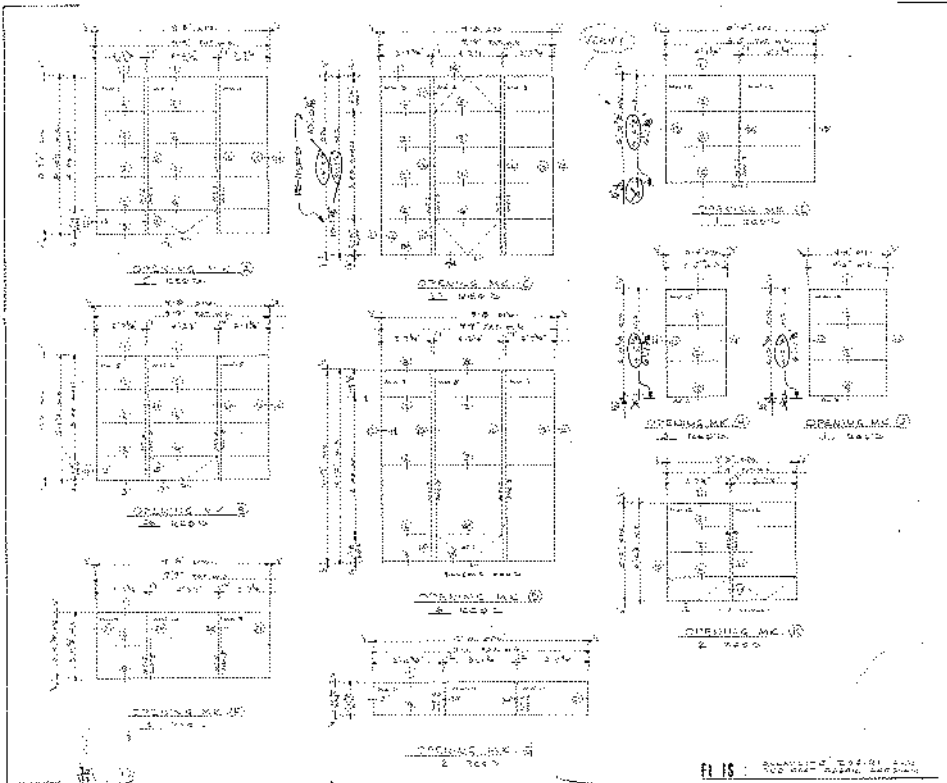


APPROVED FOR  
FOR CONSTRUCTION  
DATE 12-11-11

5-104



APPROVED  
MR. [Name]  
[Title]  
[Address]  
[City, State, Zip]



1. DIMENSIONS OF ALL WORK SHALL BE AS SHOWN ON DRAWING UNLESS OTHERWISE SPECIFIED.  
 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES.  
 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES.  
 4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES.

APPROVED FOR THE CONTRACTOR  
 [Signature]  
 [Title]

**NOTICE**  
 IN ORDER THAT WE MAY MEET THE SPECIFIED DELIVERY DATE FOR THIS PROJECT, YOU MUST BE SURE TO ORDER OR BEFORE 7:00 AM ON OCTOBER 15, 1951.  
 DECATUR IRON & STEEL CO.

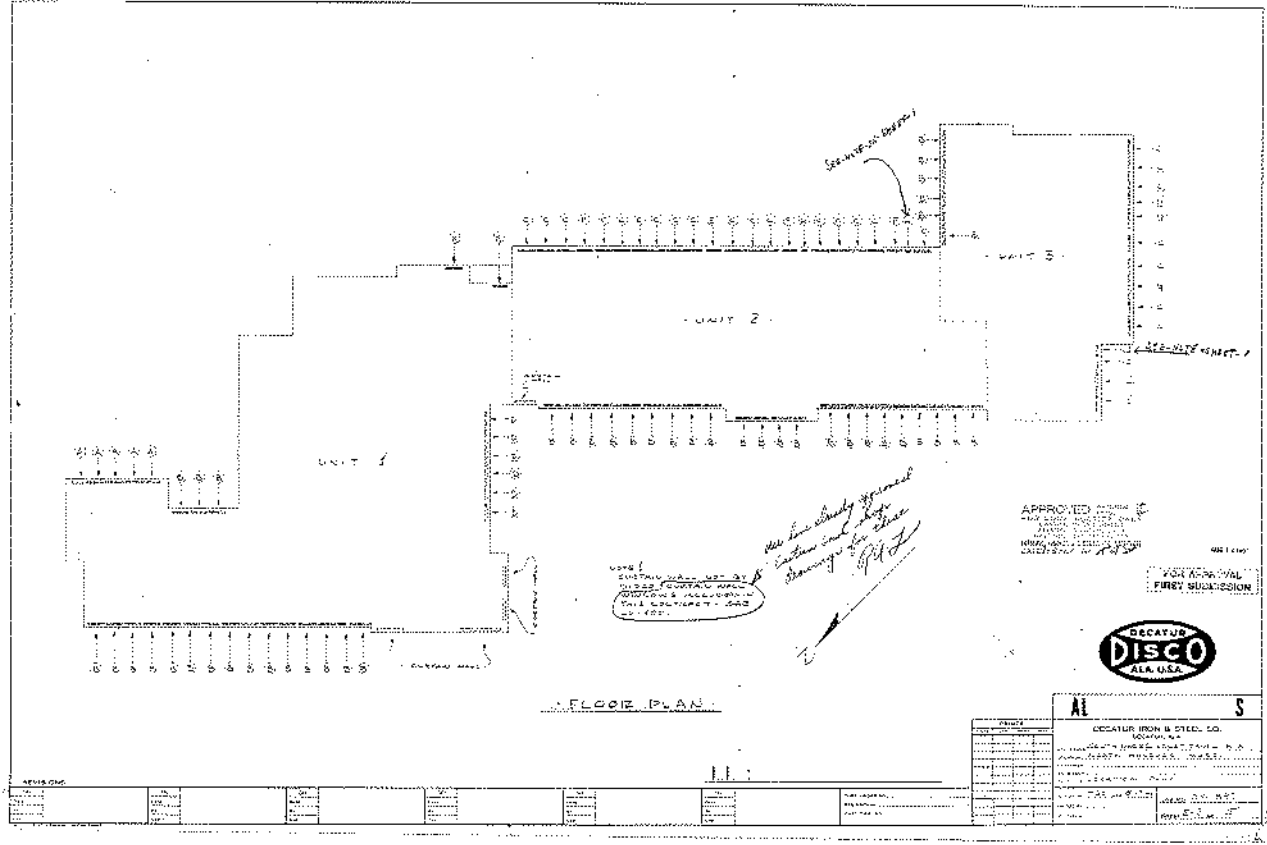
FOR APPROVAL  
 FIRST SUBMISSION



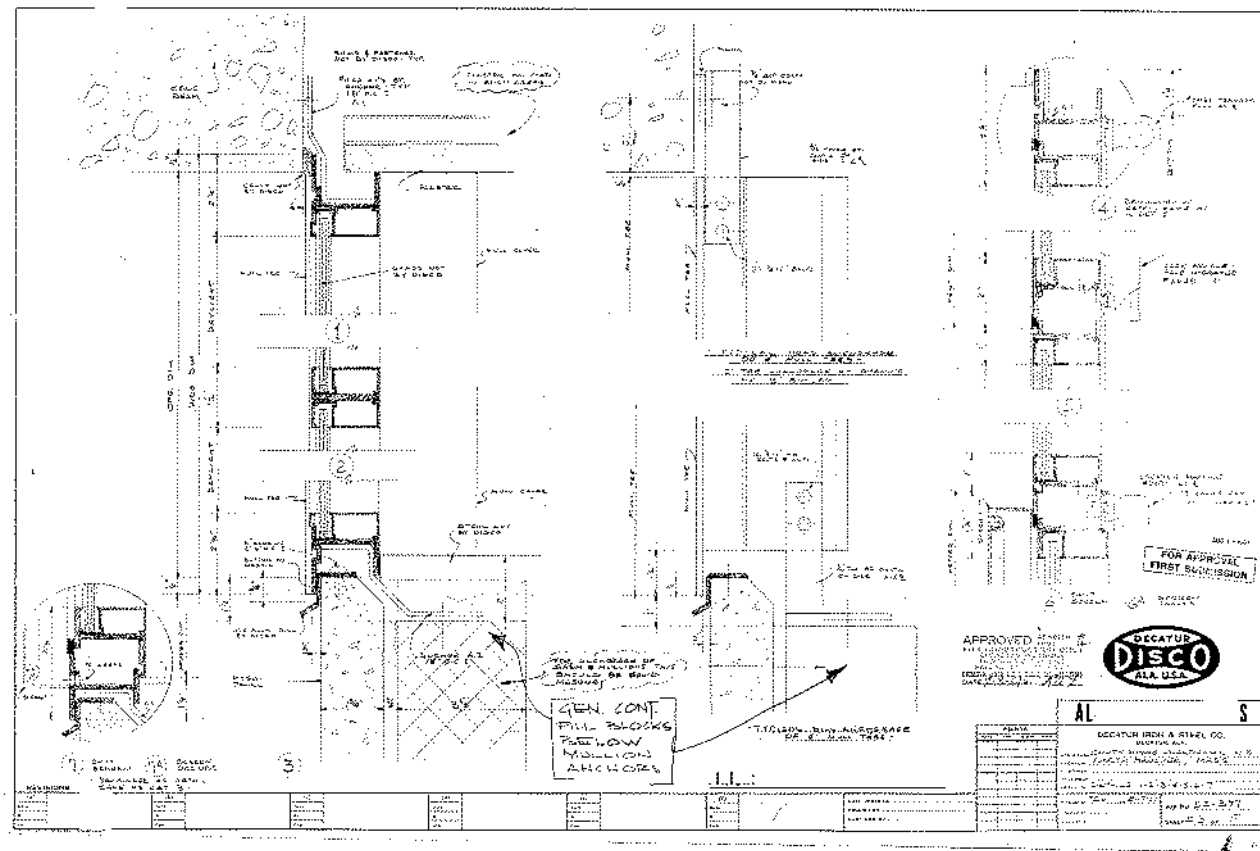
AL S  
 DECATUR IRON & STEEL CO.  
 1000 W. 10TH ST.  
 DECATUR, GA.

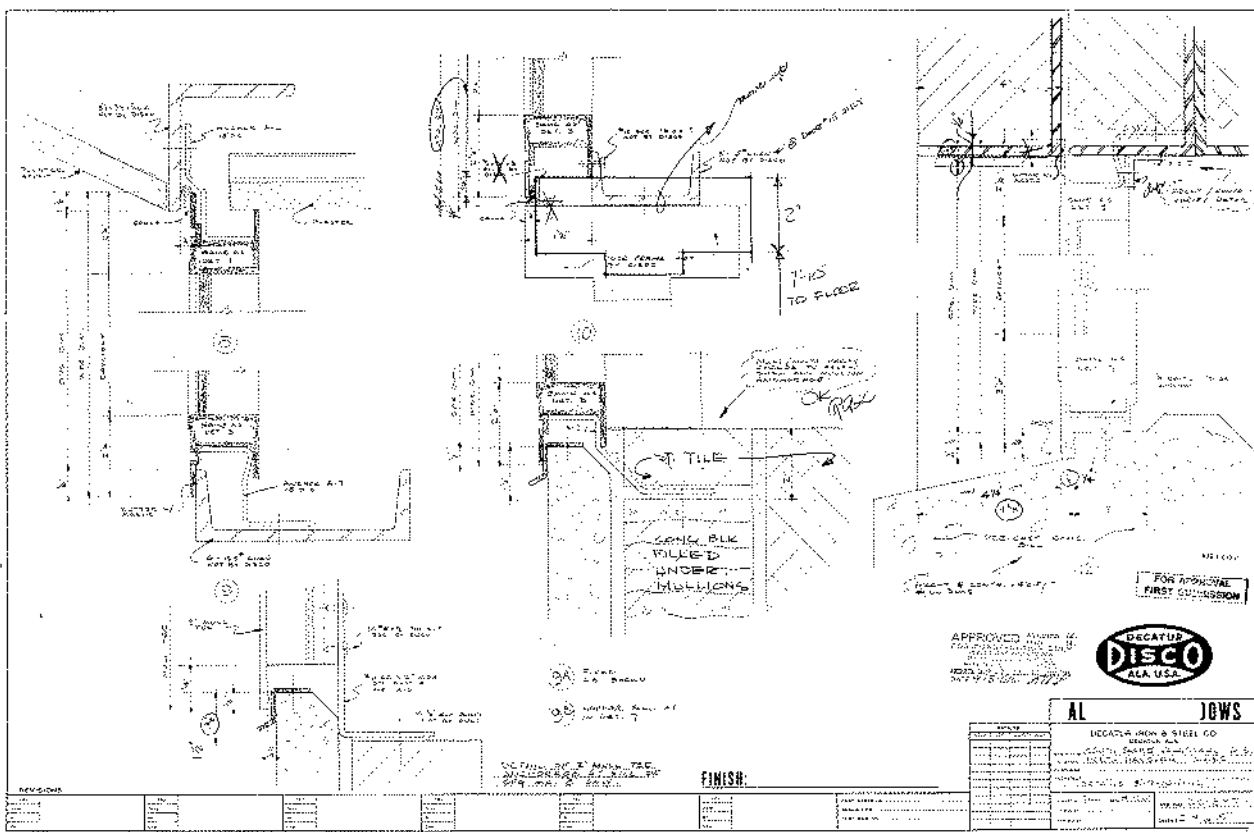
NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	...	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...
6	...	...	...	...	...
7	...	...	...	...	...
8	...	...	...	...	...
9	...	...	...	...	...
10	...	...	...	...	...
11	...	...	...	...	...
12	...	...	...	...	...
13	...	...	...	...	...
14	...	...	...	...	...
15	...	...	...	...	...
16	...	...	...	...	...
17	...	...	...	...	...
18	...	...	...	...	...
19	...	...	...	...	...
20	...	...	...	...	...
21	...	...	...	...	...
22	...	...	...	...	...
23	...	...	...	...	...
24	...	...	...	...	...
25	...	...	...	...	...
26	...	...	...	...	...
27	...	...	...	...	...
28	...	...	...	...	...
29	...	...	...	...	...
30	...	...	...	...	...
31	...	...	...	...	...
32	...	...	...	...	...
33	...	...	...	...	...
34	...	...	...	...	...
35	...	...	...	...	...
36	...	...	...	...	...
37	...	...	...	...	...
38	...	...	...	...	...
39	...	...	...	...	...
40	...	...	...	...	...
41	...	...	...	...	...
42	...	...	...	...	...
43	...	...	...	...	...
44	...	...	...	...	...
45	...	...	...	...	...
46	...	...	...	...	...
47	...	...	...	...	...
48	...	...	...	...	...
49	...	...	...	...	...
50	...	...	...	...	...
51	...	...	...	...	...
52	...	...	...	...	...
53	...	...	...	...	...
54	...	...	...	...	...
55	...	...	...	...	...
56	...	...	...	...	...
57	...	...	...	...	...
58	...	...	...	...	...
59	...	...	...	...	...
60	...	...	...	...	...
61	...	...	...	...	...
62	...	...	...	...	...
63	...	...	...	...	...
64	...	...	...	...	...
65	...	...	...	...	...
66	...	...	...	...	...
67	...	...	...	...	...
68	...	...	...	...	...
69	...	...	...	...	...
70	...	...	...	...	...
71	...	...	...	...	...
72	...	...	...	...	...
73	...	...	...	...	...
74	...	...	...	...	...
75	...	...	...	...	...
76	...	...	...	...	...
77	...	...	...	...	...
78	...	...	...	...	...
79	...	...	...	...	...
80	...	...	...	...	...
81	...	...	...	...	...
82	...	...	...	...	...
83	...	...	...	...	...
84	...	...	...	...	...
85	...	...	...	...	...
86	...	...	...	...	...
87	...	...	...	...	...
88	...	...	...	...	...
89	...	...	...	...	...
90	...	...	...	...	...
91	...	...	...	...	...
92	...	...	...	...	...
93	...	...	...	...	...
94	...	...	...	...	...
95	...	...	...	...	...
96	...	...	...	...	...
97	...	...	...	...	...
98	...	...	...	...	...
99	...	...	...	...	...
100	...	...	...	...	...





NO.	DESCRIPTION	DATE	BY	CHECKED	APPROVED
1	...	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...
6	...	...	...	...	...
7	...	...	...	...	...
8	...	...	...	...	...
9	...	...	...	...	...
10	...	...	...	...	...
11	...	...	...	...	...
12	...	...	...	...	...
13	...	...	...	...	...
14	...	...	...	...	...
15	...	...	...	...	...





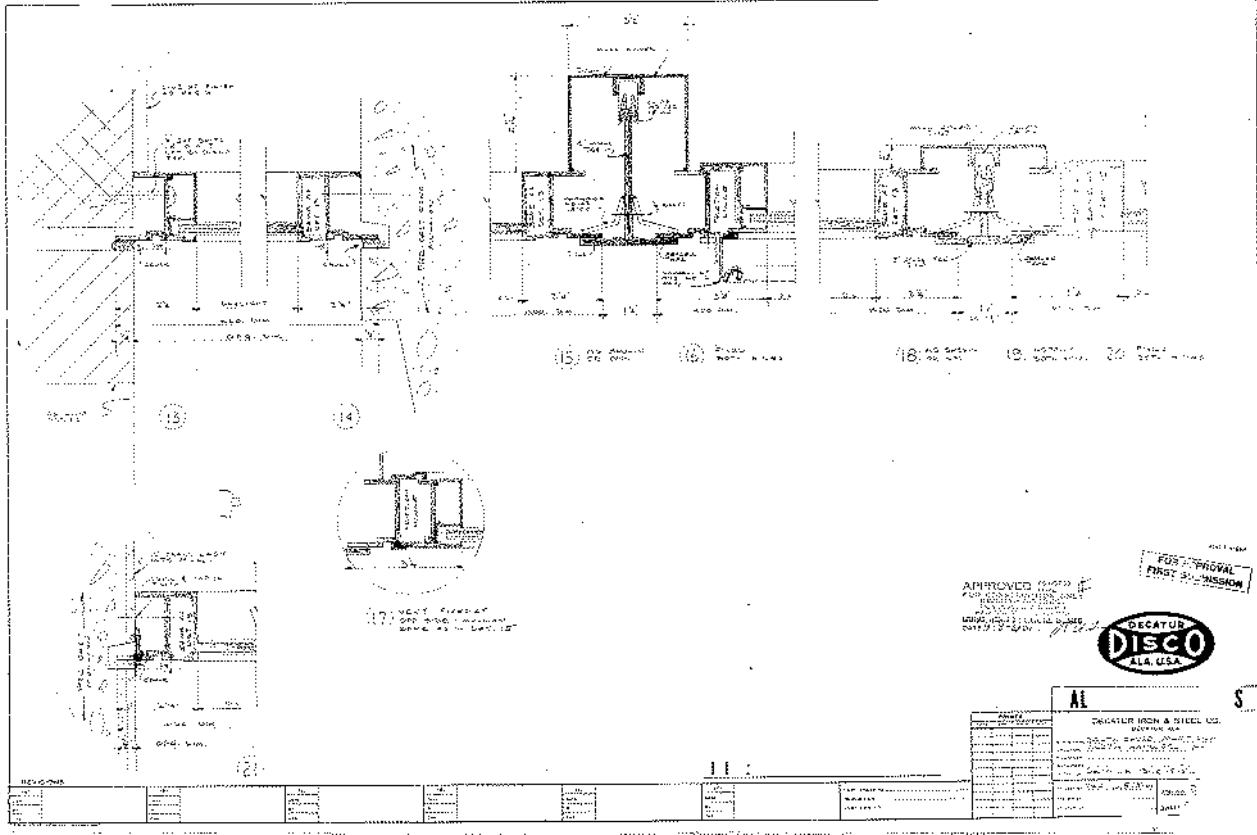
APPROVED AS SHOWN BY  
 ARCHITECT'S SEAL  
 DATE: 10/1/77

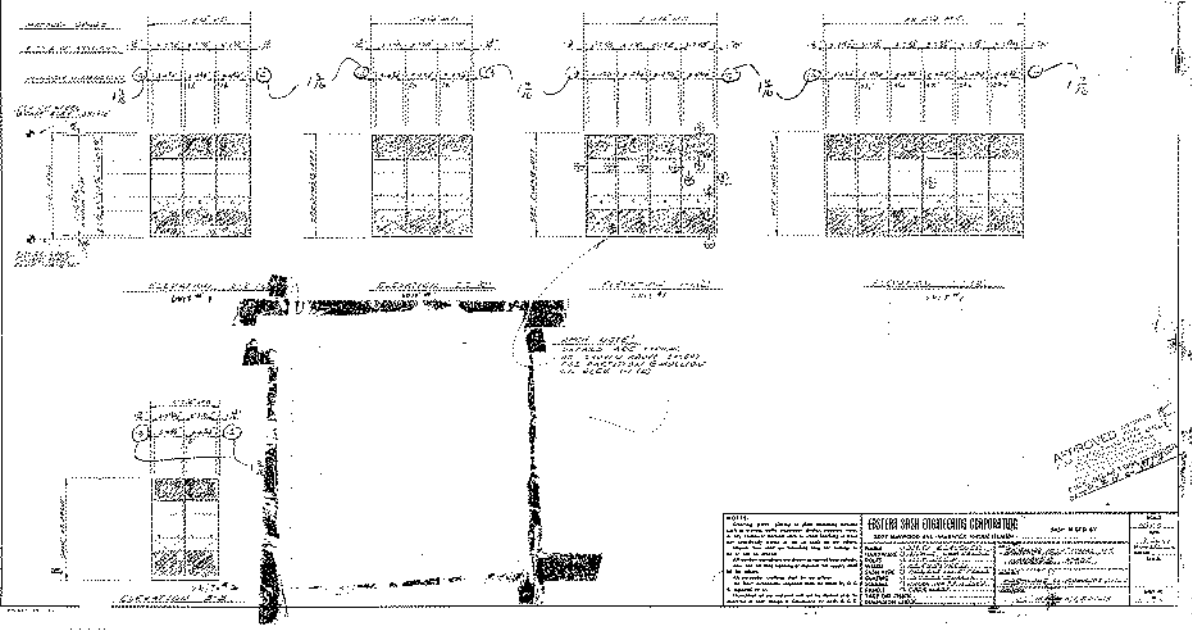


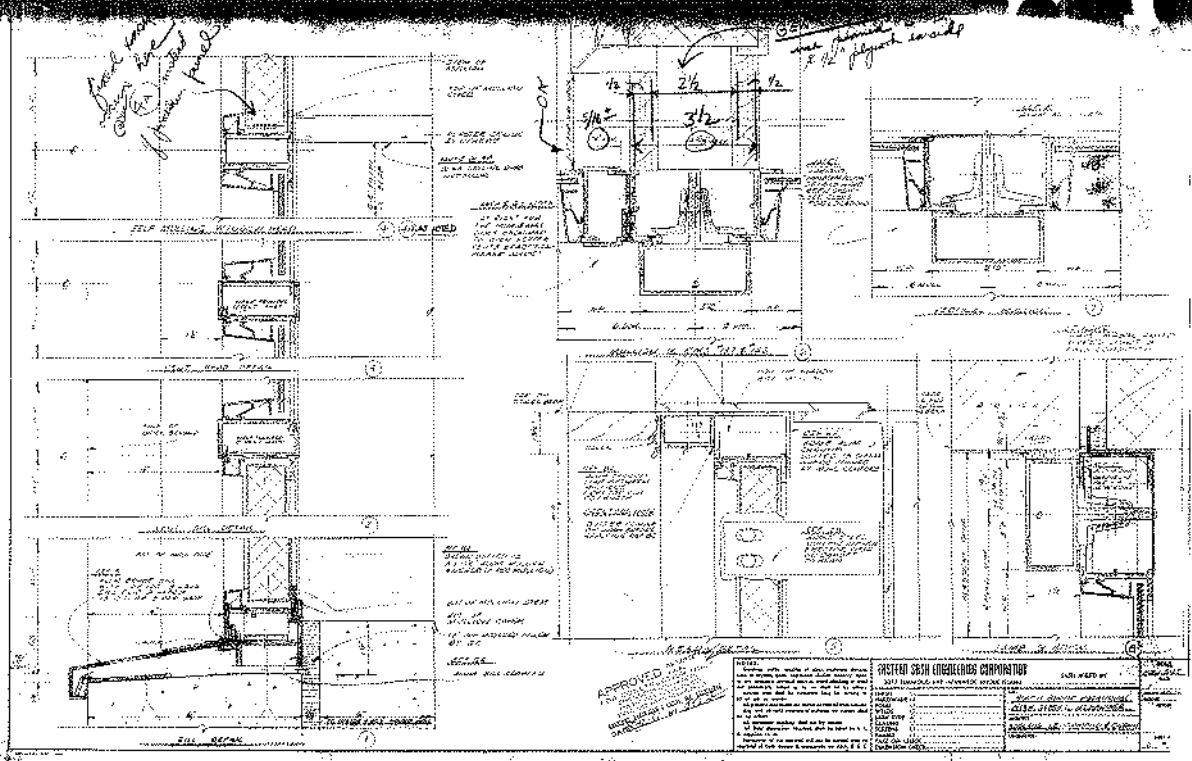
AL JWWS

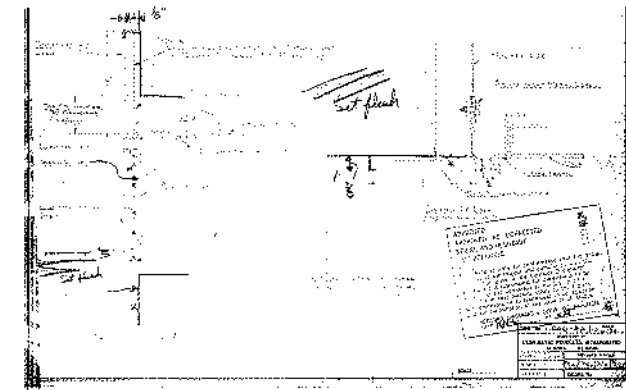
NO.	DATE	DESCRIPTION
1	10/1/77	ISSUED FOR PERMITS
2	10/1/77	ISSUED FOR CONSTRUCTION
3	10/1/77	ISSUED FOR RECORD

FINISH

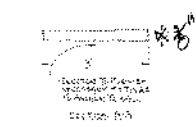
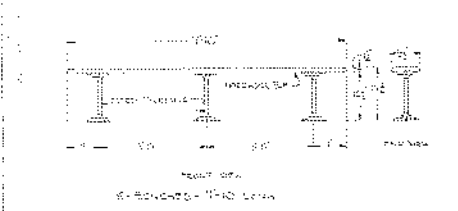
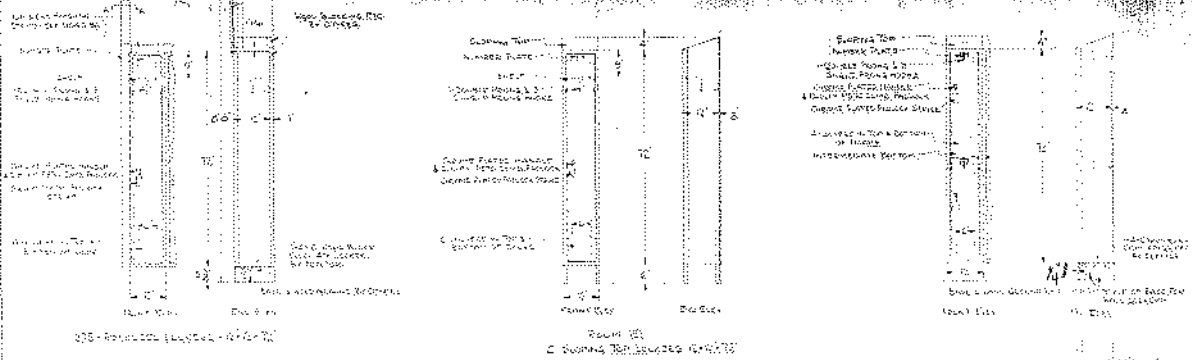










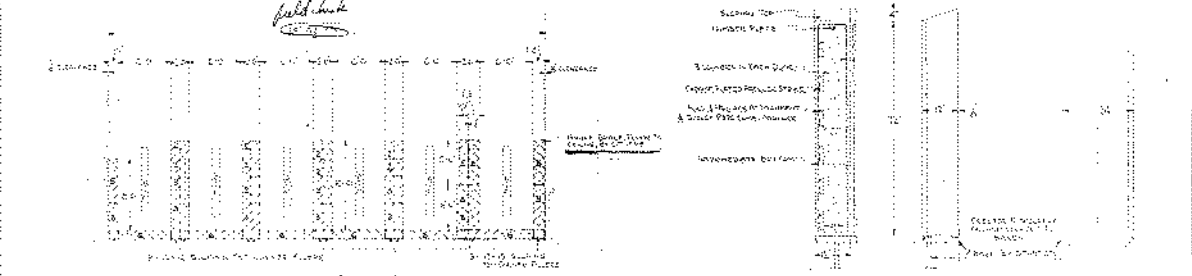


**NOTE**  
 LOWER NUMBERS  
 SEE LETTER  
 S.A. FILE

REINFORCING BARS	AS PER SCHEDULE
CONCRETE	AS PER SPECIFICATIONS
WELDS	AS PER SCHEDULE
ANCHORAGE	AS PER SCHEDULE
DEVELOPMENT LENGTH	AS PER SCHEDULE
MINIMUM CLEARANCE	AS PER SCHEDULE
MAXIMUM SPACING	AS PER SCHEDULE
MINIMUM COVER	AS PER SCHEDULE
MAXIMUM COVER	AS PER SCHEDULE

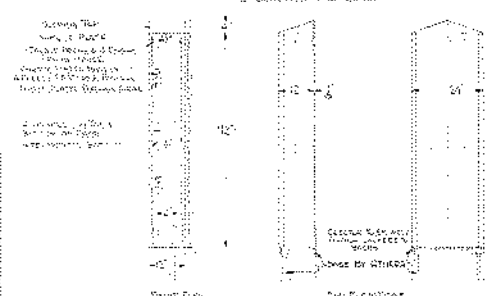
South Shore Associates, Inc. Boston, Massachusetts  
 1962

DATE	1962
PROJECT	South Shore Associates, Inc. Boston, Massachusetts
DRAWING NO.	332
SCALE	AS SHOWN
DESIGNED BY	[Redacted]
CHECKED BY	[Redacted]
APPROVED BY	[Redacted]



Notes for the first set of drawings:

- 1. Concrete Core
- 2. Outer Shell
- 3. Reinforcement
- 4. Formwork
- 5. Bracing

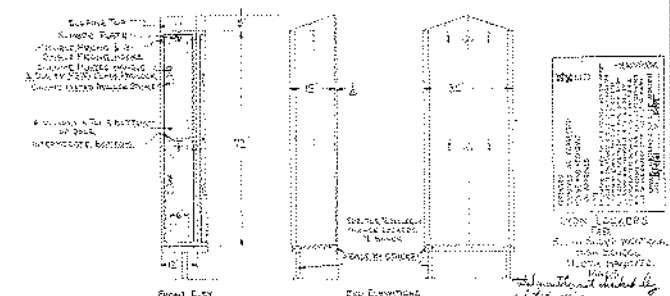


Notes for the second set of drawings:

- 1. Concrete Core
- 2. Outer Shell
- 3. Reinforcement
- 4. Formwork
- 5. Bracing

Notes for the third set of drawings:

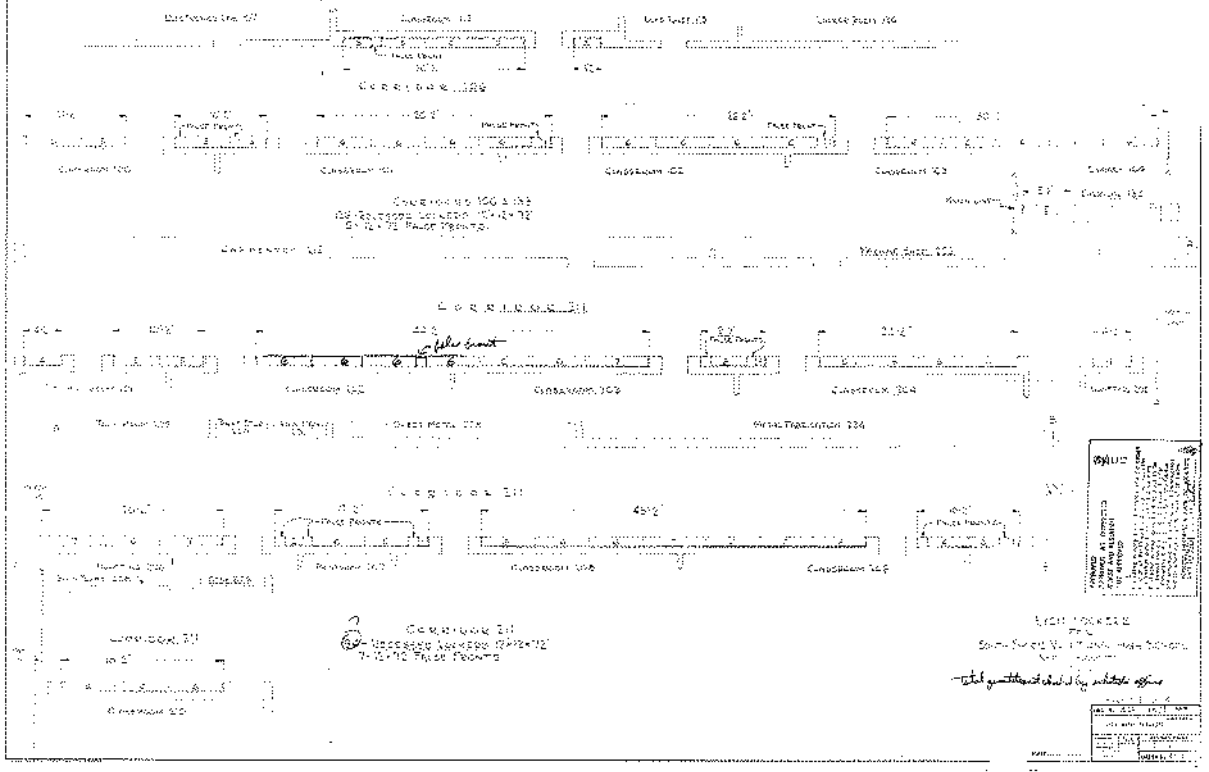
- 1. Concrete Core
- 2. Outer Shell
- 3. Reinforcement
- 4. Formwork
- 5. Bracing



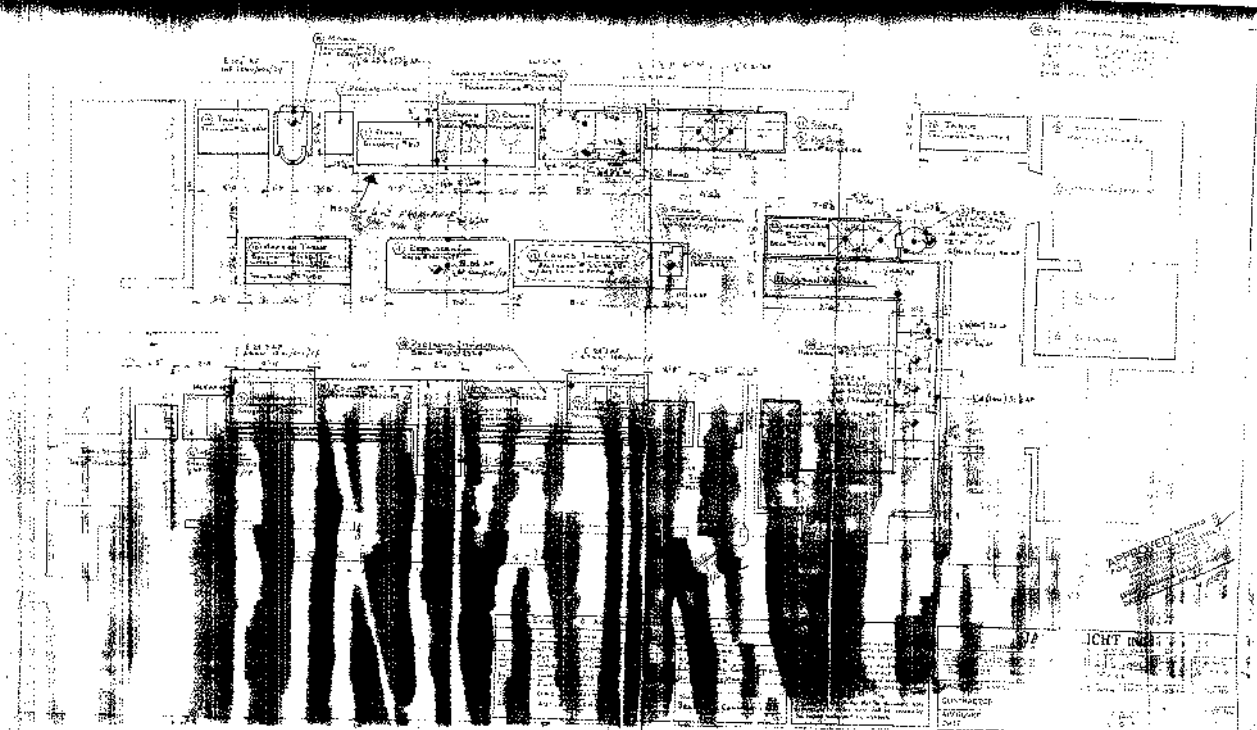
Notes for the fourth set of drawings:

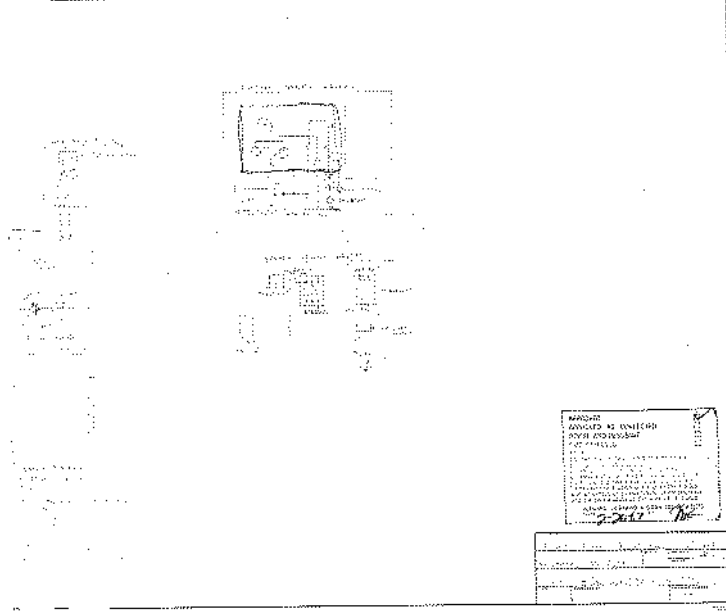
- 1. Concrete Core
- 2. Outer Shell
- 3. Reinforcement
- 4. Formwork
- 5. Bracing

Item	Description	Quantity	Unit
1	Concrete Core	100	cu ft
2	Outer Shell	200	sq ft
3	Reinforcement	50	lb
4	Formwork	100	sq ft
5	Bracing	20	lb



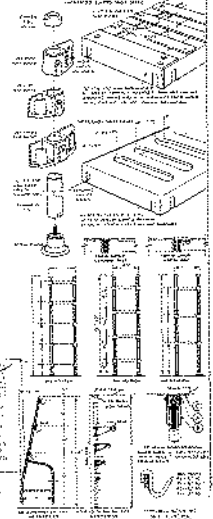
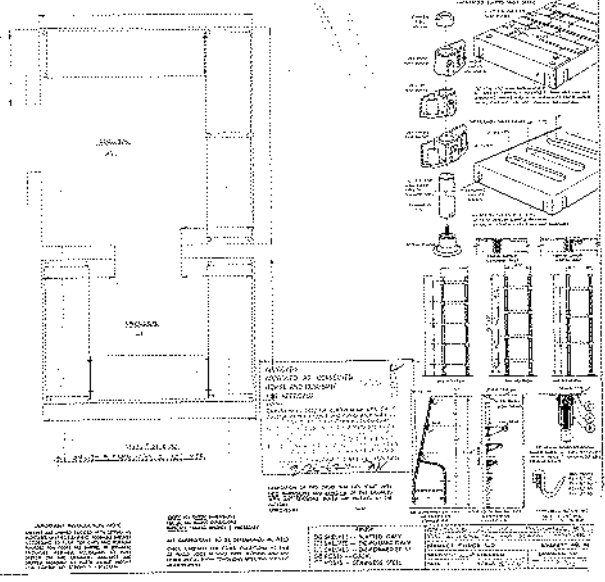






APPROVED  
DATE: 12/12/12  
BY: [Signature]

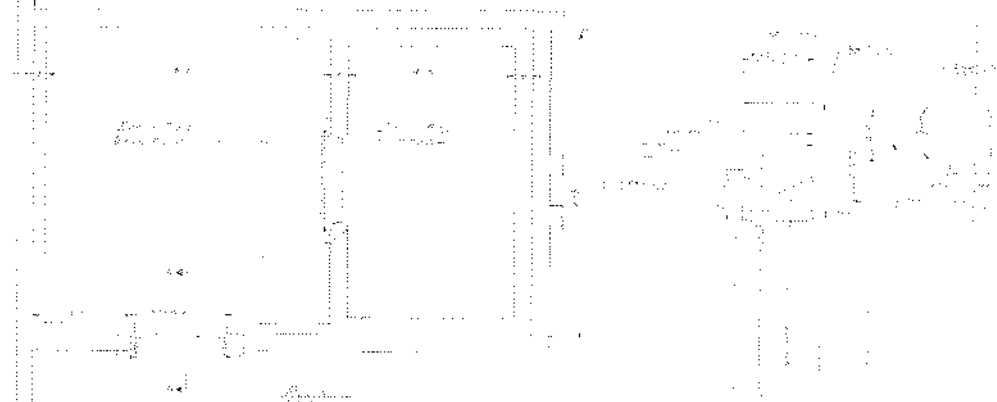
NO.	DESCRIPTION	QTY.
1	VALVE BODY	1
2	VALVE PLATE	1
3	VALVE SEAT	1
4	VALVE SPRING	1
5	VALVE GUIDE	1
6	VALVE KEYS	2
7	VALVE SCREWS	4
8	VALVE WASHERS	4
9	VALVE O-RINGS	2
10	VALVE GASKET	1



NOTES:  
1. ALL DIMENSIONS ARE IN METERS.  
2. THE DRAWING IS FOR INFORMATION ONLY.  
3. THE DRAWING IS NOT TO BE USED FOR CONSTRUCTION.  
4. THE DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSE.  
5. THE DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSE.

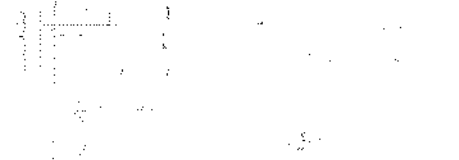
ARCHITECT: [Name]  
SCALE: 1:50  
DATE: [Date]





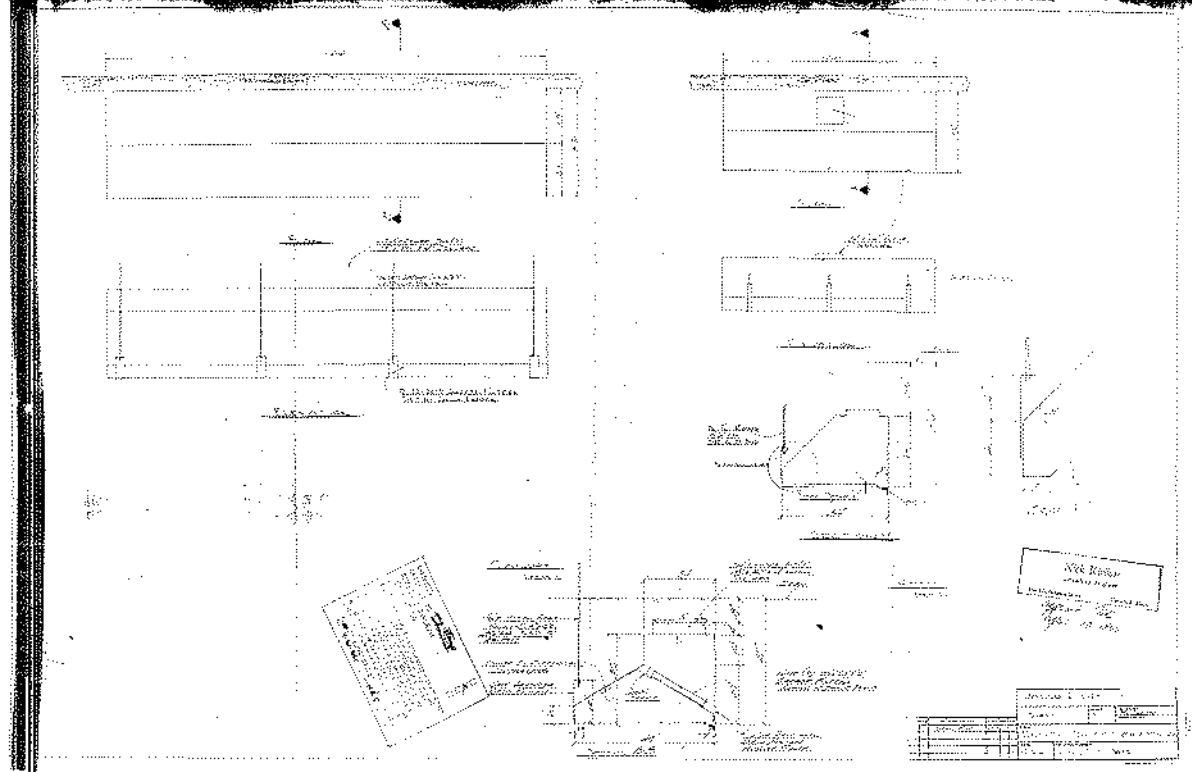
APPROVED  
 OFFICE OF THE DIRECTOR  
 STATE OF CALIFORNIA  
 No. 100000  
 THE STATE ENGINEER  
 COUNTY OF LOS ANGELES  
 OFFICE OF THE COUNTY ENGINEER  
 1111 SOUTH MAIN STREET  
 LOS ANGELES, CALIFORNIA  
 DATE: 10/10/1968

1. The proposed project is a...  
 2. The project is located in...  
 3. The project is a...  
 4. The project is a...  
 5. The project is a...



1. The project is a...  
 2. The project is a...  
 3. The project is a...

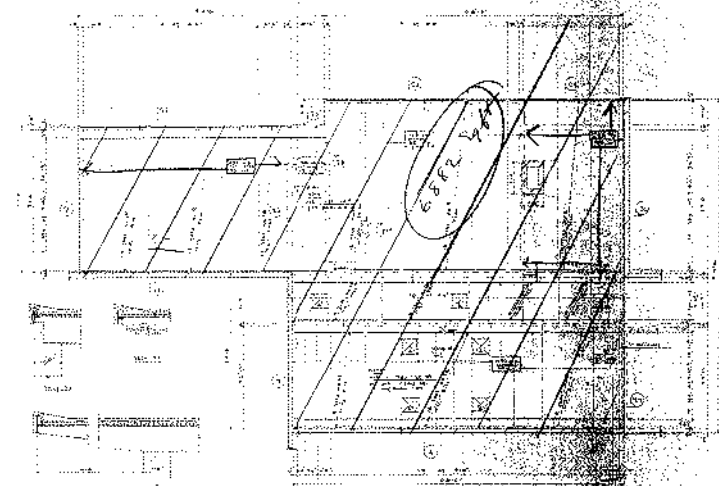








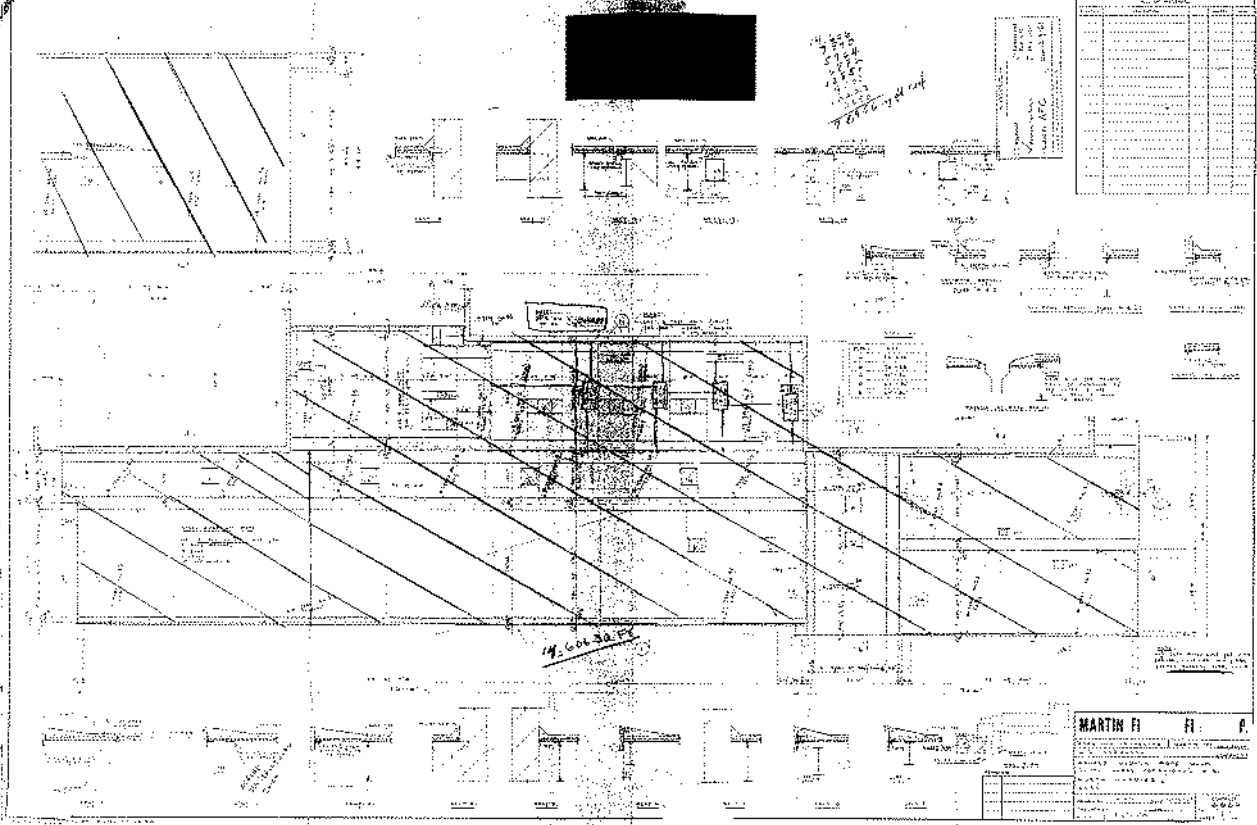


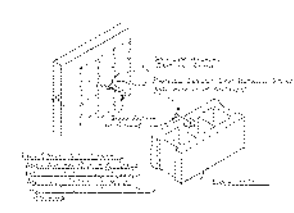
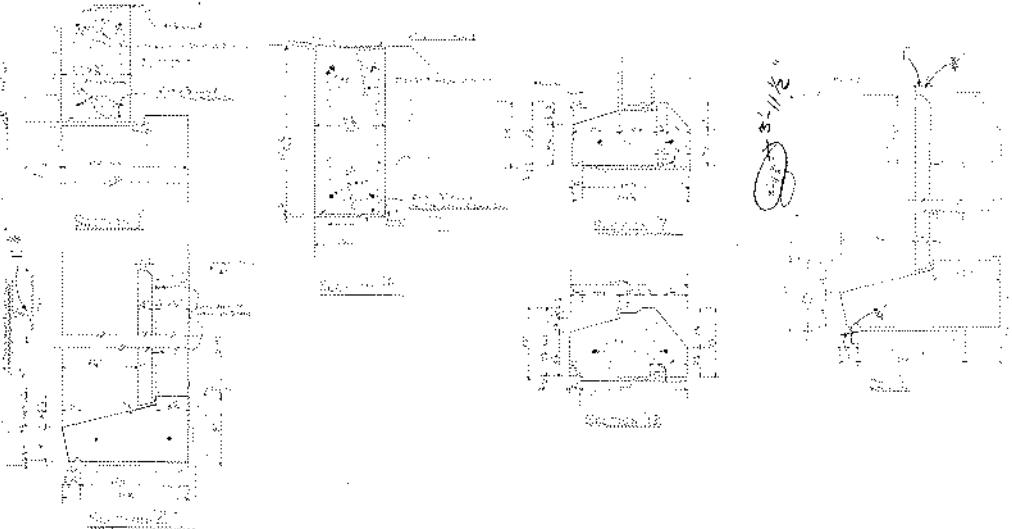


NO.	DESCRIPTION	QTY.	UNIT	AMOUNT
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
11	...	...	...	...
12	...	...	...	...
13	...	...	...	...
14	...	...	...	...
15	...	...	...	...
16	...	...	...	...
17	...	...	...	...
18	...	...	...	...
19	...	...	...	...
20	...	...	...	...
21	...	...	...	...
22	...	...	...	...
23	...	...	...	...
24	...	...	...	...
25	...	...	...	...
26	...	...	...	...
27	...	...	...	...
28	...	...	...	...
29	...	...	...	...
30	...	...	...	...
31	...	...	...	...
32	...	...	...	...
33	...	...	...	...
34	...	...	...	...
35	...	...	...	...
36	...	...	...	...
37	...	...	...	...
38	...	...	...	...
39	...	...	...	...
40	...	...	...	...
41	...	...	...	...
42	...	...	...	...
43	...	...	...	...
44	...	...	...	...
45	...	...	...	...
46	...	...	...	...
47	...	...	...	...
48	...	...	...	...
49	...	...	...	...
50	...	...	...	...
51	...	...	...	...
52	...	...	...	...
53	...	...	...	...
54	...	...	...	...
55	...	...	...	...
56	...	...	...	...
57	...	...	...	...
58	...	...	...	...
59	...	...	...	...
60	...	...	...	...
61	...	...	...	...
62	...	...	...	...
63	...	...	...	...
64	...	...	...	...
65	...	...	...	...
66	...	...	...	...
67	...	...	...	...
68	...	...	...	...
69	...	...	...	...
70	...	...	...	...
71	...	...	...	...
72	...	...	...	...
73	...	...	...	...
74	...	...	...	...
75	...	...	...	...
76	...	...	...	...
77	...	...	...	...
78	...	...	...	...
79	...	...	...	...
80	...	...	...	...
81	...	...	...	...
82	...	...	...	...
83	...	...	...	...
84	...	...	...	...
85	...	...	...	...
86	...	...	...	...
87	...	...	...	...
88	...	...	...	...
89	...	...	...	...
90	...	...	...	...
91	...	...	...	...
92	...	...	...	...
93	...	...	...	...
94	...	...	...	...
95	...	...	...	...
96	...	...	...	...
97	...	...	...	...
98	...	...	...	...
99	...	...	...	...
100	...	...	...	...

**A A TIM FIREPROOFING CORP.**  
 1000 ...  
 ...  
 ...



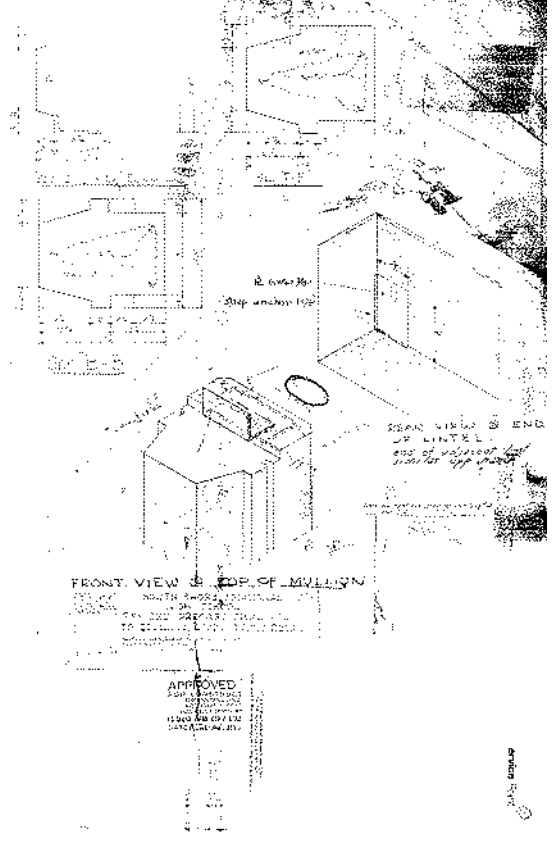
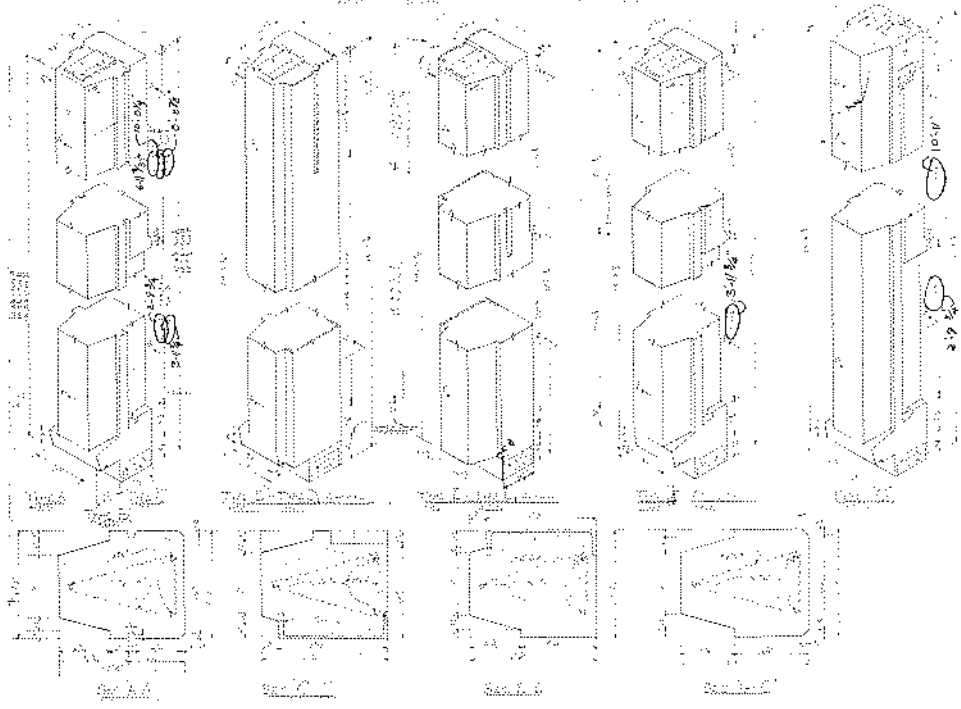


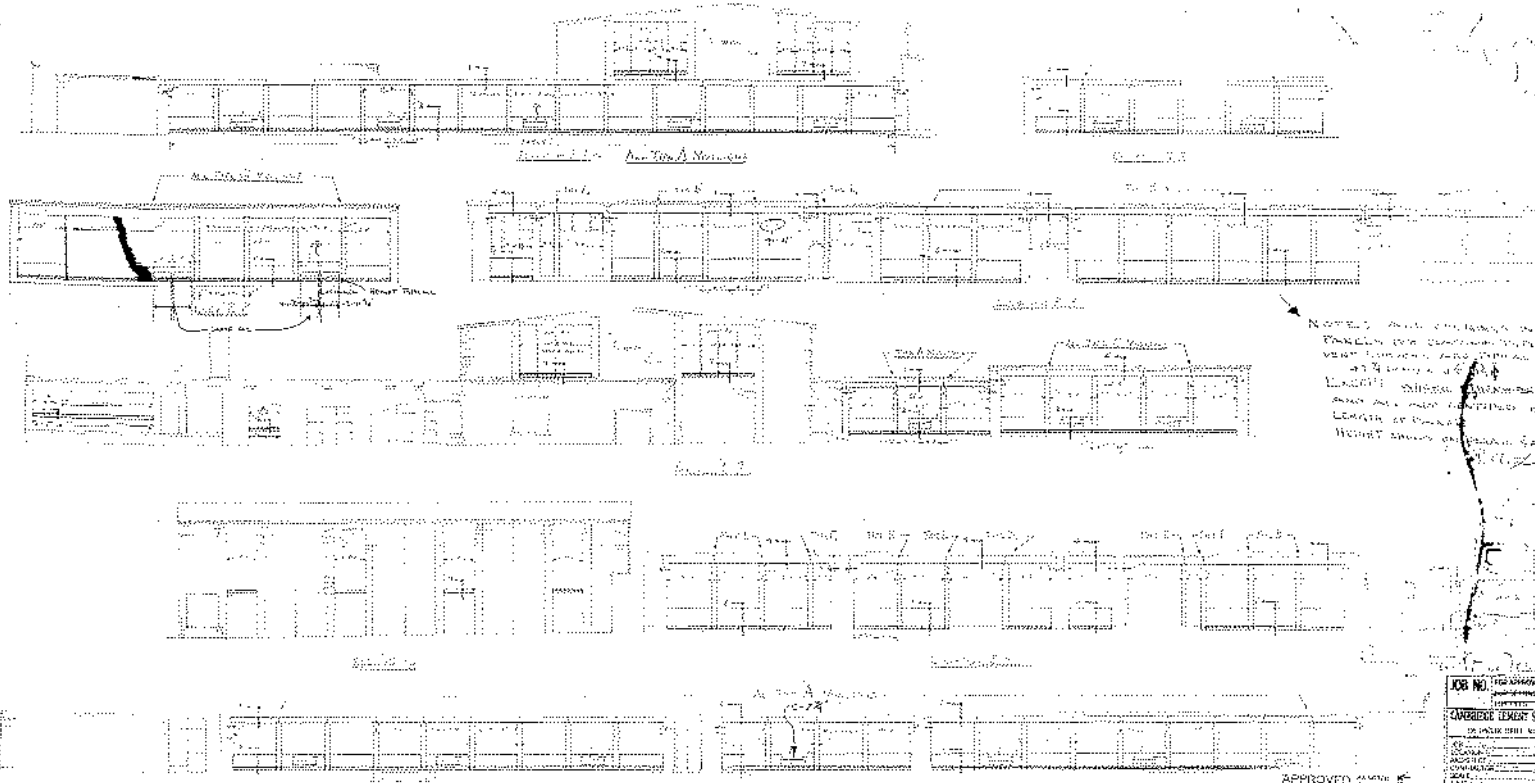


APPROVED BY: [Signature]

DATE: 3/11/5

JOB NO.	100-10000-1
PROJECT	CONCRETE FOUNDATION
DATE	3/11/5
BY	[Signature]
CHECKED BY	[Signature]
SCALE	AS SHOWN
REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR PERMIT





NOTE: ALL DIMENSIONS ARE  
 TAKEN FROM CENTERLINE OF  
 WALL UNLESS OTHERWISE  
 NOTED. ALL ROOMS TO BE  
 FINISHED TO FACE OF  
 PARTITION UNLESS OTHERWISE  
 NOTED.

APPROVED AND  
 FOR THE ARCHITECT  
 [Signature]

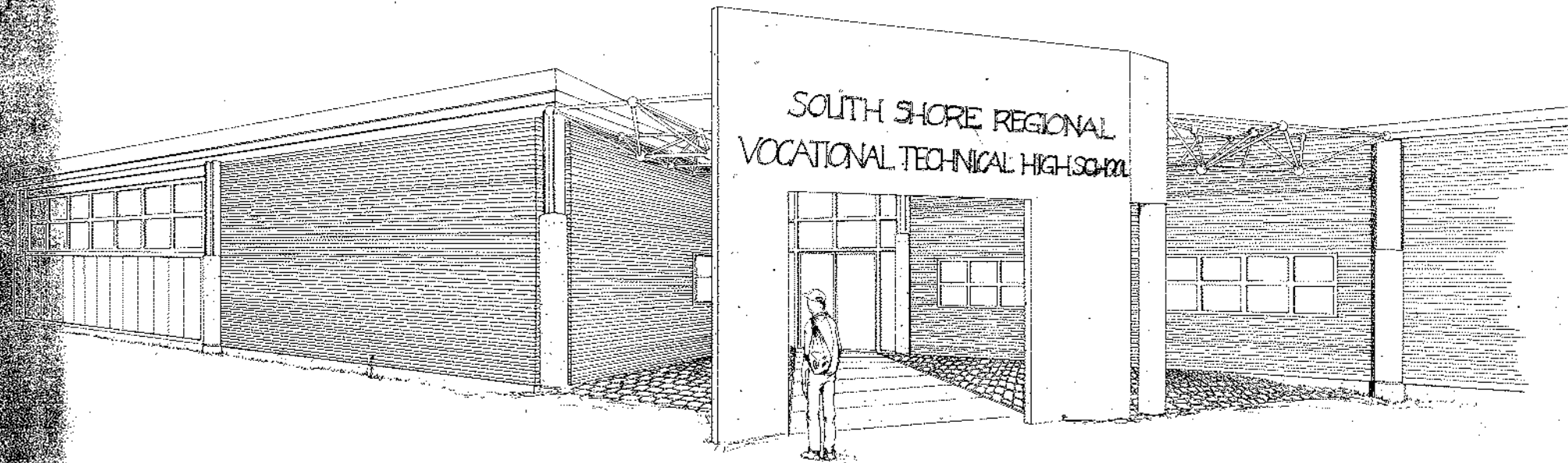
JOB NO.	100-10000
DATE	10/1/50
PROJECT	NEW YORK STATE OFFICE BUILDING
ARCHITECT	ARCHITECTURAL FIRM
ENGINEER	ENGINEERING FIRM
CONTRACTOR	CONSTRUCTION COMPANY
OWNER	NEW YORK STATE



# SOUTH SHORE REGIONAL VOCATIONAL TECHNICAL HIGH SCHOOL

HANOVER

MASSACHUSETTS



## LIST OF DRAWINGS

### COVER

- C-1 COVER SHEET
- SITE/CIVIL AND LANDSCAPE**
- L-1 EXISTING CONDITIONS PLAN
- L-2 SITE GRADING & UTILITIES
- L-3 DETAILS
- L-4 SITE PLAN AND DETAILS
- L-5 LANDSCAPE PLAN
- L-6 LANDSCAPE DETAILS

### ARCHITECTURAL

- A-1 EXISTING BUILDING FIRST FLOOR PLAN
- A-2 EXISTING BUILDING ENLARGED PARTIAL FLOOR PLANS
- A-3 FIRST FLOOR PLAN - PART 'A'
- A-4 FIRST FLOOR PLAN - PART 'B'
- A-5 BUILDING ELEVATIONS
- A-6 ROOF PLAN - PART 'A'
- A-7 ROOF PLAN - PART 'B'
- A-8 REFLECTED CEILING PLAN - PART 'A'
- A-9 REFLECTED CEILING PLAN - PART 'B'
- A-10 BUILDING SECTIONS
- A-11 WALL SECTIONS 1 - 4
- A-12 WALL SECTIONS 5 - 7
- A-13 WALL SECTIONS 8 - 12
- A-14 WALL SECTIONS 13 - 17
- A-15 WALL SECTION DETAILS
- A-16 PLAN DETAILS
- A-17 MISCELLANEOUS DETAILS
- A-18 ROOF DETAILS
- A-19 ENLARGED PARTIAL FLOOR PLANS
- A-20 INTERIOR ELEVATIONS
- A-21 ENLARGED BATH PLANS AND ELEVATIONS
- A-22 WINDOWS & STOREFRONT
- A-23 DOOR & FRAME TYPES / DOOR SCHEDULE
- A-24 ROOM FINISH SCHEDULE AND PARTITION TYPES

### STRUCTURAL DRAWINGS

- S-1 FOUNDATION PLAN - PART 'A' & GENERAL NOTES
- S-2 FOUNDATION PLAN - PART 'B'
- S-3 ROOF FRAMING PLAN - PART 'A'
- S-4 ROOF FRAMING PLAN - PART 'B'
- S-5 FOUNDATION DETAILS
- S-6 STEEL DETAILS
- S-7 STEEL DETAILS

### HEATING, AIR CONDITIONING AND VENTILATION DRAWINGS

- H-1 HVAC FLOOR PLAN - PART 'A'
- H-2 HVAC FLOOR PLAN - PART 'B'
- H-3 EXISTING BUILDING FIRST FLOOR PLAN - HVAC
- H-4 HVAC PART PLANS AND DETAILS
- H-5 HVAC SCHEDULES
- H-6 HVAC DETAILS

### PLUMBING DRAWINGS

- P-1 PLUMB & FIRE PROTECTION FLOOR PLAN - PART 'A'
- P-2 PLUMB & FIRE PROTECTION FLOOR PLAN - PART 'B'
- P-3 PLUMB & FIRE PROTECTION - KITCHEN PLAN
- P-4 EXISTING BUILDING - PLUMB & FIRE PROTECTION
- P-5 PLUMB & FIRE PROTECTION - PART PLANS
- P-6 PLUMB & FIRE PROTECTION RISER DIAGRAMS
- P-7 PLUMB & FIRE PROTECTION DETAILS

### ELECTRICAL DRAWINGS

- E-1 ELECTRICAL SITE PLAN
- E-2 LIGHTING FLOOR PLAN - PART 'A'
- E-3 LIGHTING FLOOR PLAN - PART 'B'
- E-4 POWER FLOOR PLAN - PART 'A'
- E-5 POWER FLOOR PLAN - PART 'B'
- E-6 ENLARGED KITCHEN POWER PLAN - PART 'A'
- E-7 RENOVATIONS TO EXISTING INTERIEN
- E-8 EQUIPMENT SCHEDULES
- E-9 DOWN UPPER EXHAUSTIBLE DETAILS
- E-10 FIRE ALARM RISER DIAGRAM
- E-11 FIXTURE SCHEDULE & DETAILS

### EQUIPMENT DRAWINGS

- EQ-1 EQUIPMENT FLOOR PLAN - PART 'A' / SCHEDULE, ELEVATIONS AND DETAILS
- EQ-2 EQUIPMENT FLOOR PLAN - PART 'B' / SCHEDULE
- EQ-3 EQUIPMENT FLOOR PLAN - EXIST. BUILDING / CASEWORK ELEVATIONS AND DETAILS
- EQ-4 CASEWORK ELEVATIONS AND DETAILS

### FOOD SERVICE EQUIPMENT

- FS-1 FOOD SERVICE EQUIPMENT - CULINARY ARTS ROOM
- FS-2 FOOD SERVICE EQUIPMENT - CULINARY ARTS ROOM
- FS-3 FOOD SERVICE EQUIPMENT - CULINARY ARTS ROOM
- FS-4 FOOD SERVICE EQUIPMENT - MAIN KITCHEN SCHEDULES AND ROUGH

## CONSULTANTS

### Civil Engineers

**BRYANT ASSOCIATES**  
100 BIRCH WASHINGTON STREET  
BOSTON, MASSACHUSETTS 02114 (617) 248-0300

### Geotechnical Consultants

**HALEY & ALDRICH, INC.**  
100 CHARLES STREET  
BOSTON, MASSACHUSETTS 02141 (617) 494-1806

### Landscape Architects

**RAMMAN ASSOCIATES**  
100 HANDELMAN DRIVE  
BOSTON, MASSACHUSETTS 02068 (617) 545-9418

### Mechanical Engineers

**THE ZADE COMPANY**  
100 BEACH STREET  
BOSTON, MASSACHUSETTS 02111 (617) 338-4406

### Equipment Consultants

**DESIGN ASSOCIATES**  
100 BOSTON AVENUE  
BOSTON, MASSACHUSETTS 02174 (617) 646-3343



**HKT Architects Inc.**

Architecture and Planning

35 Medford Street

Somerville, Massachusetts 02143

PHONE 617-776-8545

## MATERIALS

### EARTH/PAVEMENT

Section View Elevation View

Earth (undisturbed)

Earth (disturbed)

Stand Fill

Compacted Gravel

Asphalt Concrete

Concrete

Concrete Masonry Units

Block

Grout

Mortar

### METAL

Section View Elevation View

Steel

Wood (small scale)

Highly Moisture Resistant

Metal Flooring (Sheet Metal)

Metal Flooring (Sheet Metal)

### CONCRETE/MASONRY

Section View Elevation View

Concrete

Concrete Masonry Units

Block

Grout

Mortar

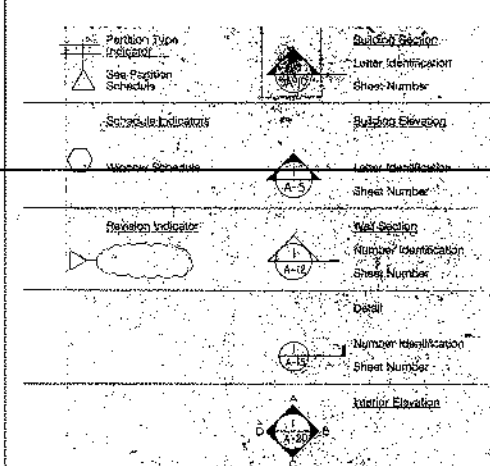
### INSULATION

Section View Elevation View

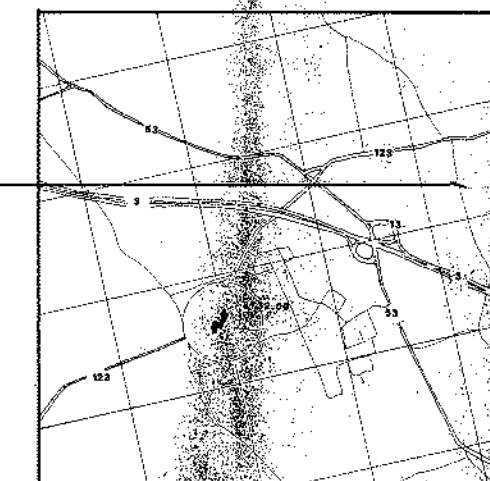
Rigid Insulation

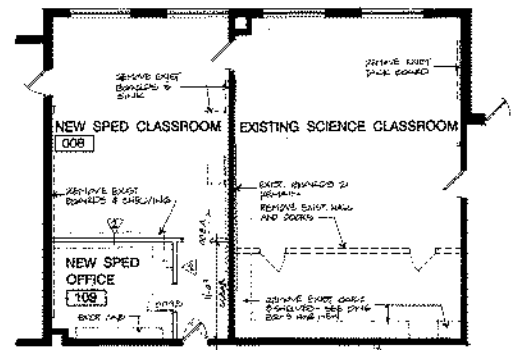
Ball or Banked Insulation

## SYMBOLS

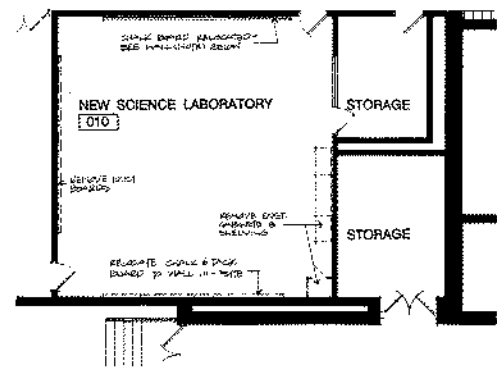


## LOCUS MAP

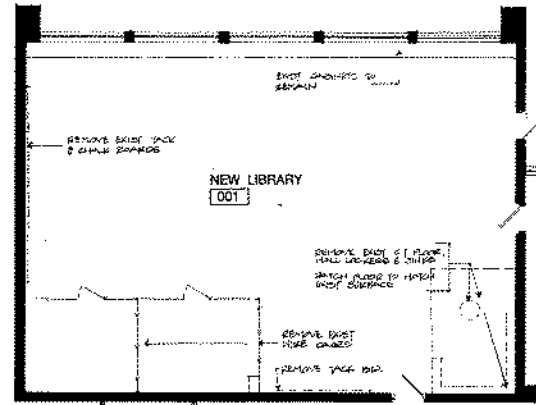




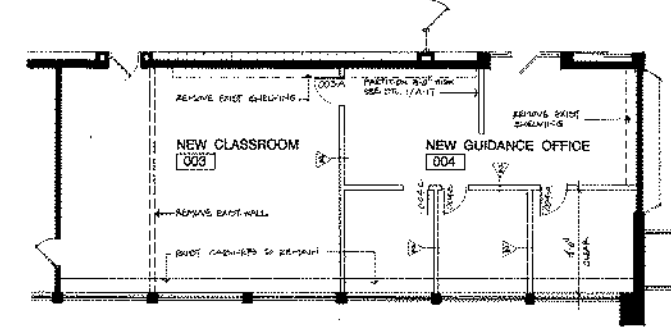
1 PLAN AT SCIENCE AND SPED CLASSROOMS  
SCALE: 1/8" = 1'-0"



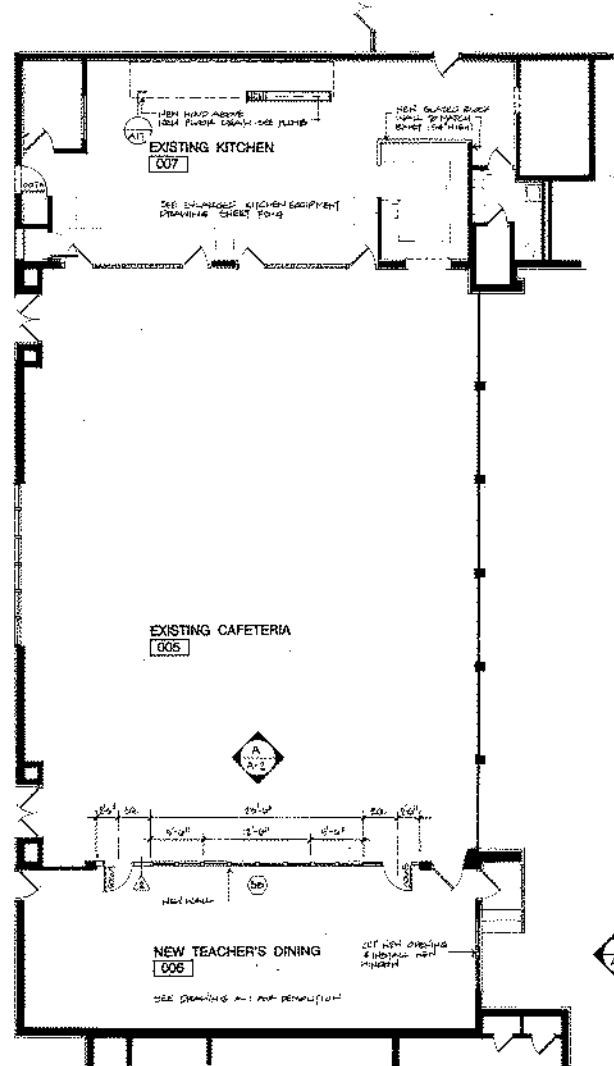
2 PLAN AT SCIENCE LABORATORY 010  
SCALE: 1/8" = 1'-0"



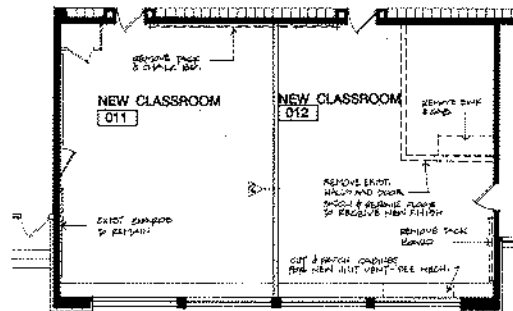
3 PLAN AT LIBRARY 001  
SCALE: 1/8" = 1'-0"



4 PLAN AT CLASSROOM 003 AND GUIDANCE 004  
SCALE: 1/8" = 1'-0"

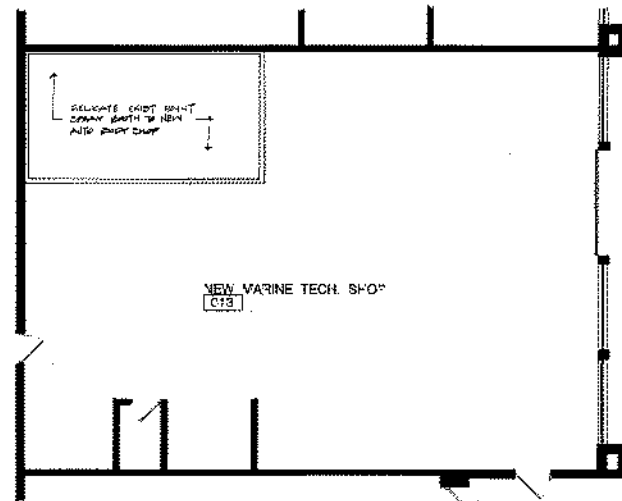


5 PLAN AT CAFETERIA, KITCHEN, AND TEACHER DINING  
SCALE: 1/8" = 1'-0"

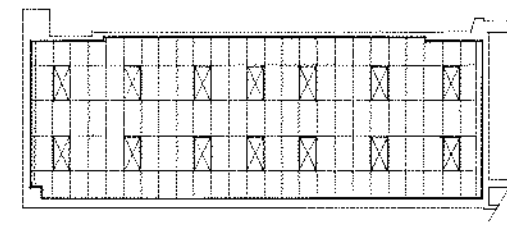


6 PLAN AT CLASSROOMS 011 AND 012  
SCALE: 1/8" = 1'-0"

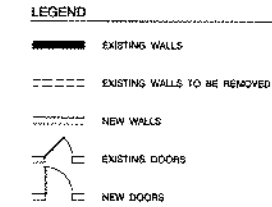
NOTE: REMOVE EXISTING ELECTRICAL DROPS AT CEILING BACK TO CIRCUIT BREAKERS. PATCH HOLES IN CEILING TO MATCH EXISTING.



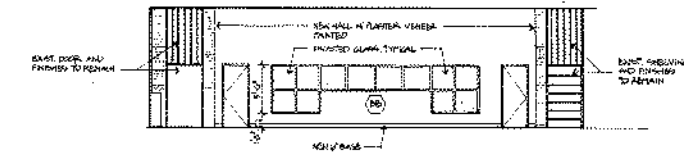
8 PLAN AT NEW MARINE TECH. SHOP 013  
SCALE: 1/8" = 1'-0"



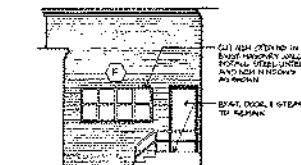
9 REFLECTED CEILING PLAN - RM 006  
SCALE: 1/8" = 1'-0"



- GENERAL NOTES
- REMOVE EXISTING TACK BOARDS AND CHALK BOARDS WHERE NOTED. REMOVE ALL PARTITIONS AND ACCESSORIES. PATCH EXISTING WALL SURFACES TO MATCH EXISTING AND PREPARE FOR NEW PAINT BASES.
  - PROVIDE ALL CUTTING AND PATCHING OF EXISTING CONCRETE FLOOR SLABS AS NECESSARY FOR THE INSTALLATION OF NEW PLUMBING SERVICES INCLUDING DRAINS AT FLOORS. COORDINATE WITH PLUMBING AND EQUIPMENT DRAWINGS FOR EXACT LOCATIONS.
  - REFINISH EXISTING WALL SURFACES BEHIND ALL SHELVING AND OTHER ITEMS INDICATED FOR REMOVAL. PATCH HOLES AFTER REMOVAL OF PLUMBING DRAINS AND WATER SERVICES WHERE SIGNS ARE REMOVED.



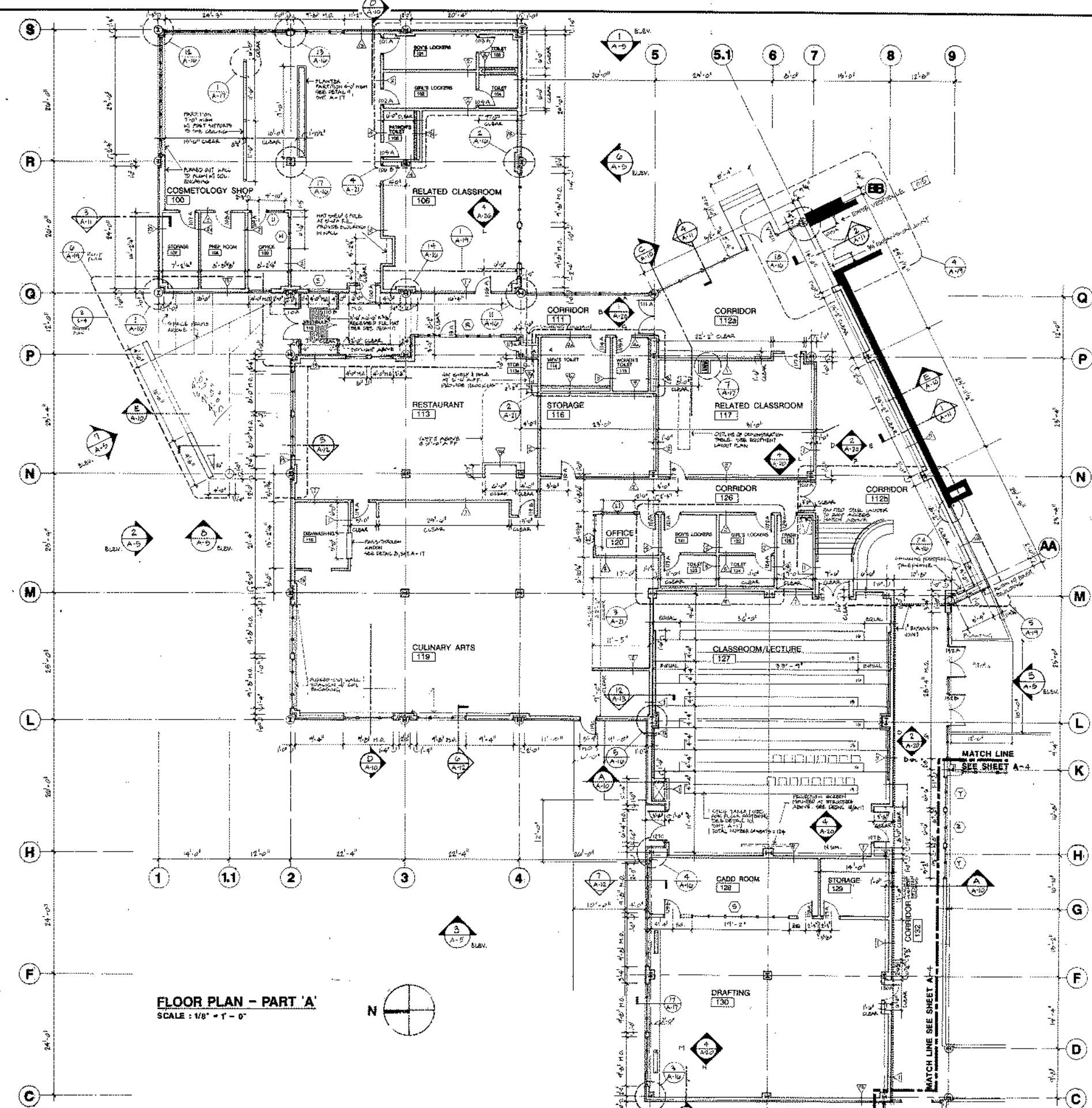
A INTERIOR ROOM ELEVATION AT NEW TEACHER'S DINING  
SCALE: 1/8" = 1'-0"



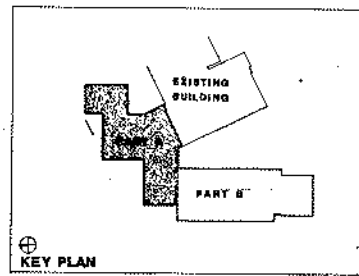
B EXTERIOR ELEVATION AT NEW TEACHER'S DINING  
SCALE: 1/8" = 1'-0"







**FLOOR PLAN - PART 'A'**  
SCALE: 1/8" = 1' - 0"



ADDITIONS AND ALTERATIONS TO THE  
SOUTH SHORE REGIONAL VOCATIONAL  
TECHNICAL HIGH SCHOOL  
HANOVER, MASSACHUSETTS

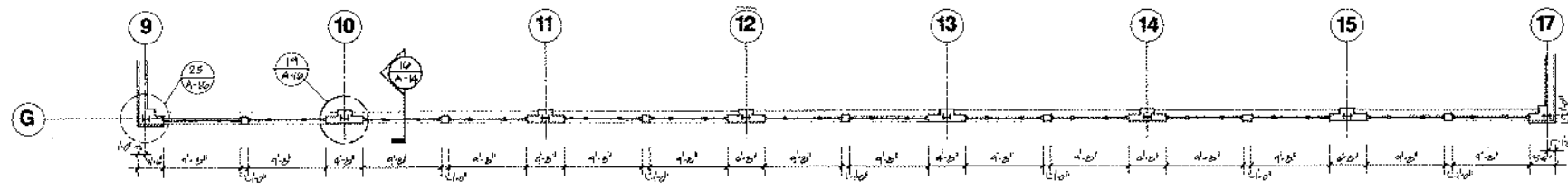
**FLOOR PLAN - PART 'A'**

DRAWN: VSH  
CHECKED: HEM  
DATE: 9/15/92  
SCALE: 1/8" = 1' - 0"

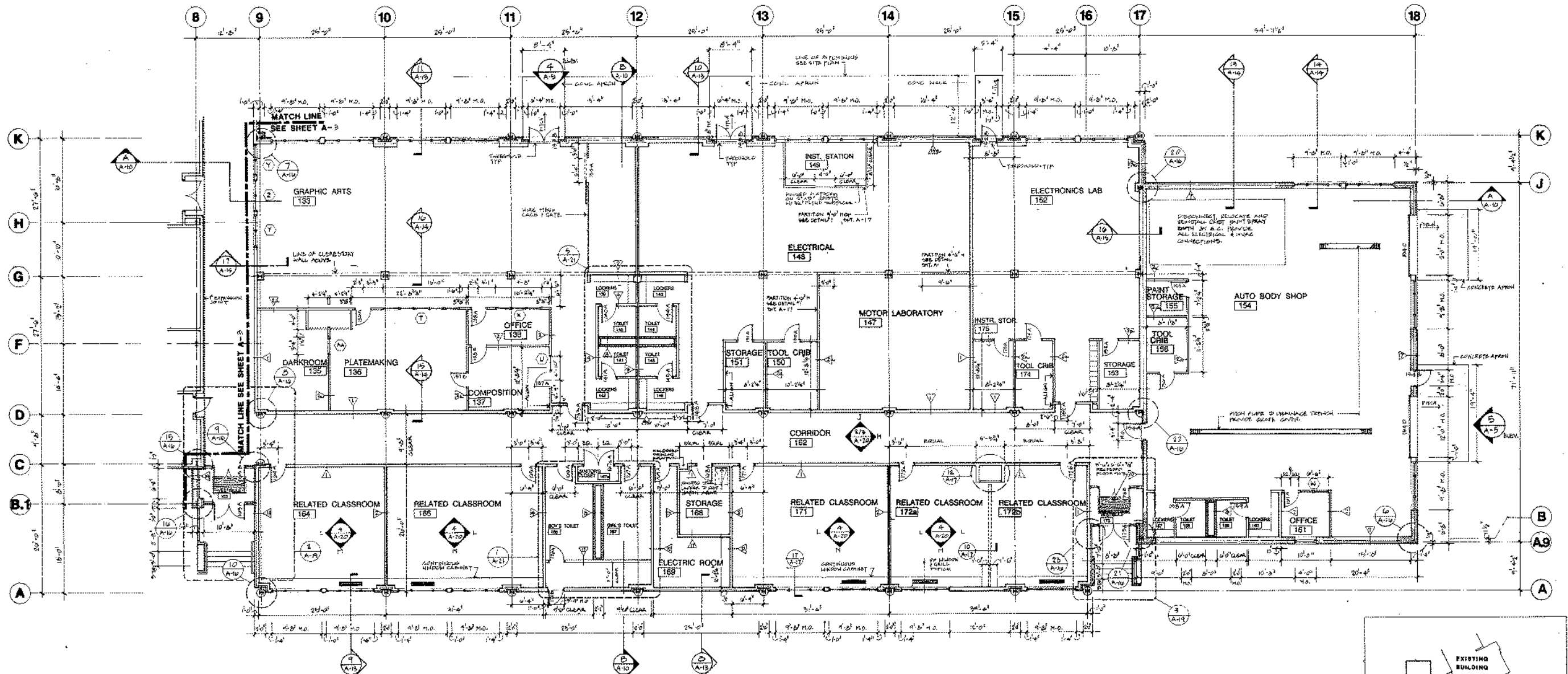
8732.00

**A-3**

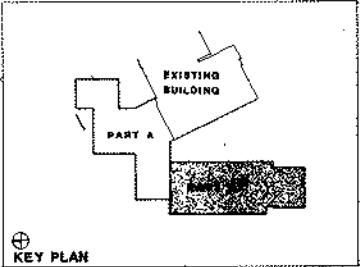
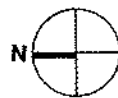
HKT & Associates Inc.  
35 Moorland Street  
Somerville, Massachusetts 02145  
617-776-6541  
FAX 771-6678



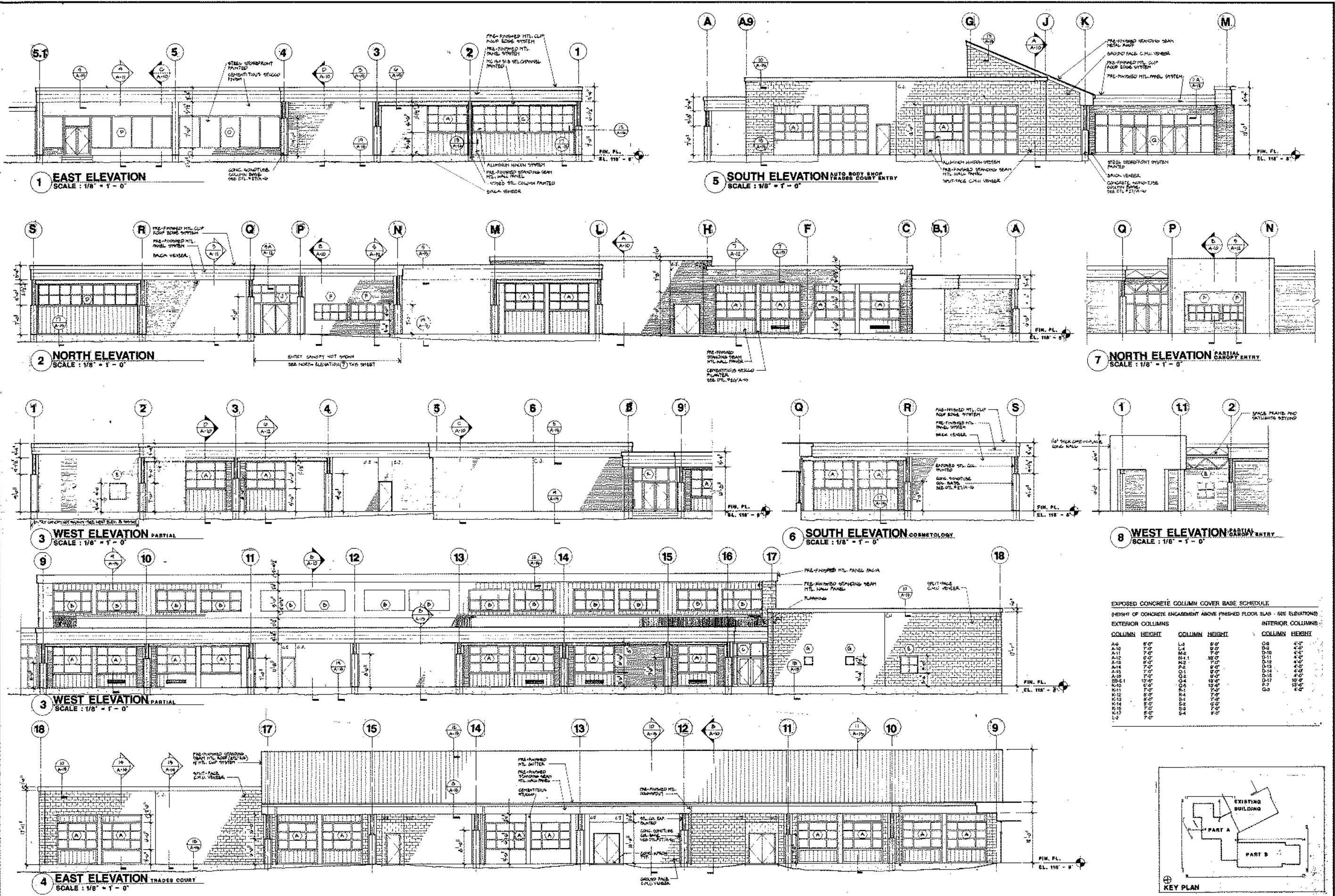
**CLERESTORY FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



**FIRST FLOOR PLAN - PART 'B'**  
SCALE: 1/8" = 1'-0"

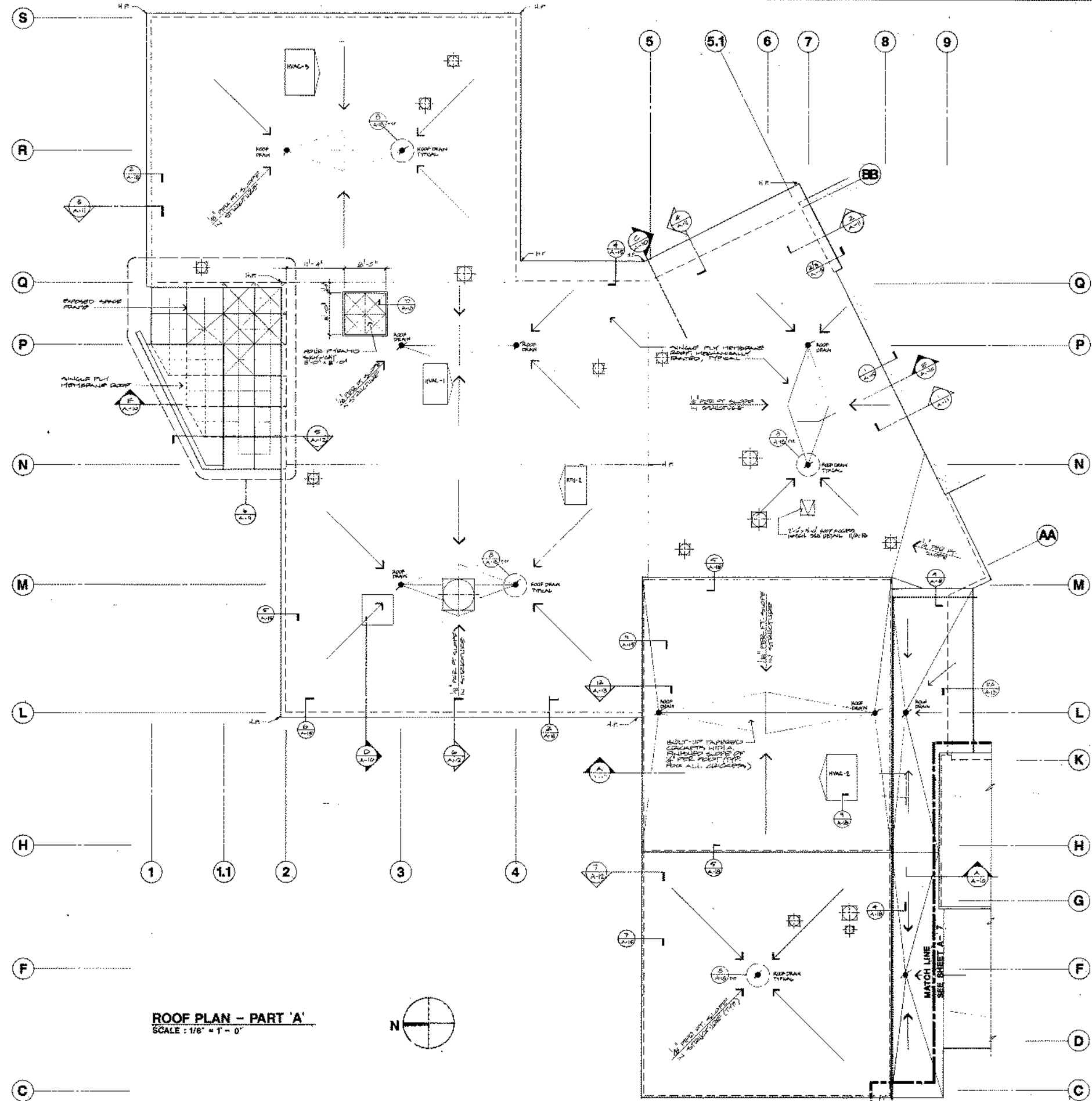


<p>MKY Architects Inc. 35 Medford Street Somerville, Massachusetts 02142 617-755-6545 Fax: 779-8679</p>		<p>ADDITIONS AND ALTERATIONS TO THE <b>SOUTH SHORE REGIONAL VOCATIONAL TECHNICAL HIGH SCHOOL</b> HANOVER, MASSACHUSETTS</p>	<p><b>FIRST FLOOR PLAN - PART 'B'</b> DRAWN: V.S.H./L.J. CHECKED: H.E.K.</p>	<p>DATE: 8/19/82 SCALE: 1/8" = 1'-0"</p>	<p>8732.00 <b>A-4</b></p>
---	--	---	--	--	-------------------------------

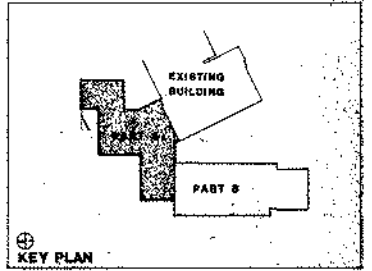


**EXPOSED CONCRETE COLUMN COVER BASE SCHEDULE**  
 (HEIGHT OF CONCRETE ENGAGEMENT ABOVE FINISHED FLOOR SLAB - SEE ELEVATIONS)

EXTERIOR COLUMNS		INTERIOR COLUMNS	
COLUMN	HEIGHT	COLUMN	HEIGHT
A-6	8'-0"	C-8	4'-0"
A-9	7'-0"	D-4	4'-0"
A-11	7'-0"	D-10	4'-0"
A-12	8'-0"	D-11	4'-0"
A-13	8'-0"	D-12	4'-0"
A-14	8'-0"	D-13	4'-0"
A-15	7'-0"	D-14	4'-0"
A-20	7'-0"	D-15	4'-0"
B-4	10'-0"	D-17	4'-0"
B-10	6'-0"	D-18	4'-0"
B-11	7'-0"	D-19	4'-0"
B-12	8'-0"	D-20	4'-0"
B-13	8'-0"	D-21	4'-0"
B-14	8'-0"	D-22	4'-0"
B-15	7'-0"	D-23	4'-0"
B-16	8'-0"	D-24	4'-0"
B-17	7'-0"	D-25	4'-0"
B-18	7'-0"	D-26	4'-0"
L-2	7'-0"	D-27	4'-0"



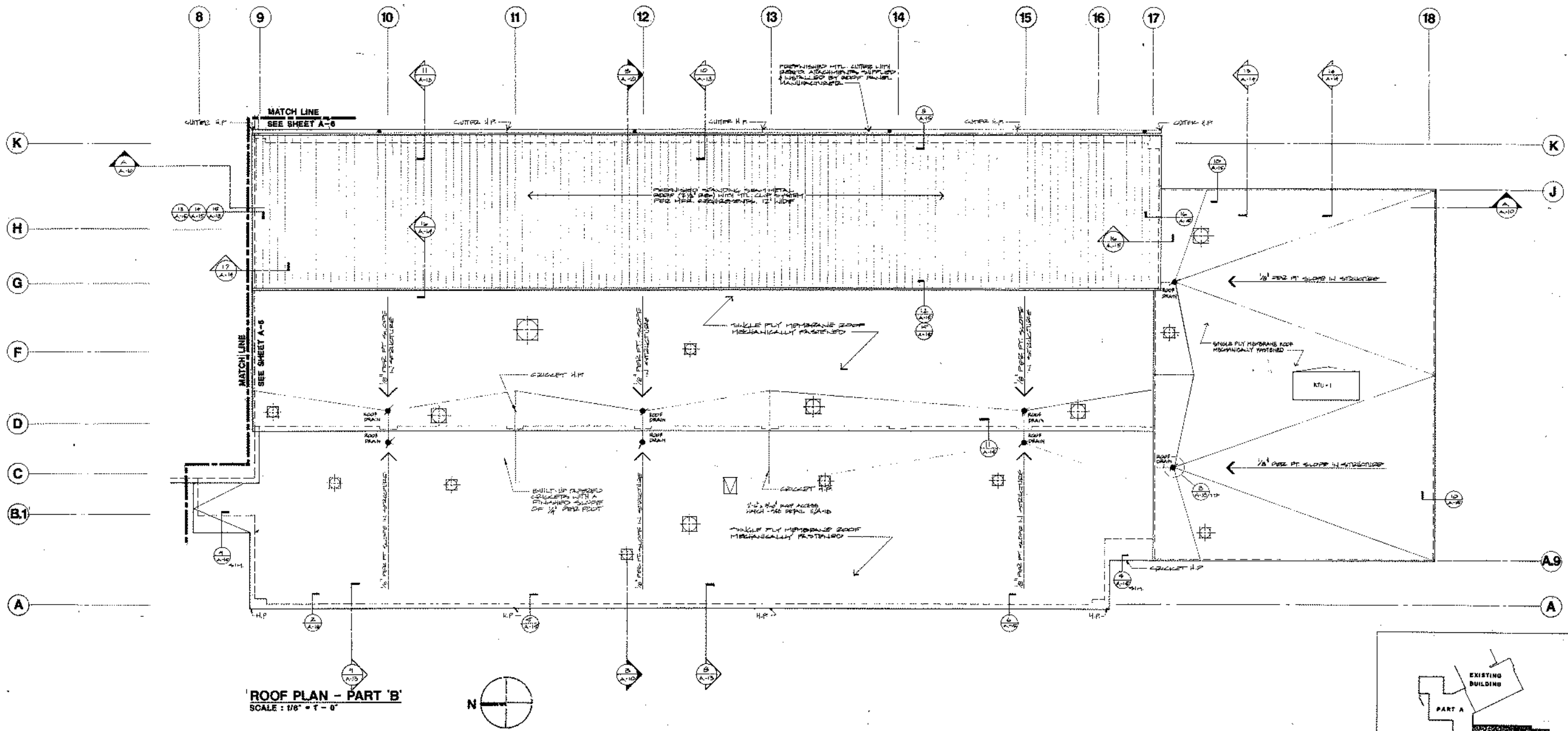
**ROOF PLAN - PART 'A'**  
SCALE: 1/8" = 1' - 0"



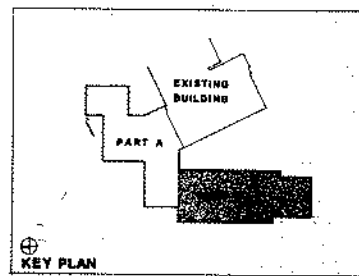
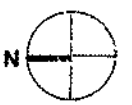
	<b>HKT Architects Inc.</b> 35 Bedford Street South Weymouth, Massachusetts 02190 Tel: 773-6663 Fax: 773-6412	
	ADDITIONS AND ALTERATIONS TO THE <b>SOUTH SHORE REGIONAL VOCATIONAL          TECHNICAL HIGH SCHOOL</b> HANOVER, MASSACHUSETTS	

<b>ROOF PLAN - PART 'A'</b> DRAWN: GAB/LJT CHECKED: VOM	DATE: 8/15/92 SCALE: 1/8" = 1' - 0"
---	--

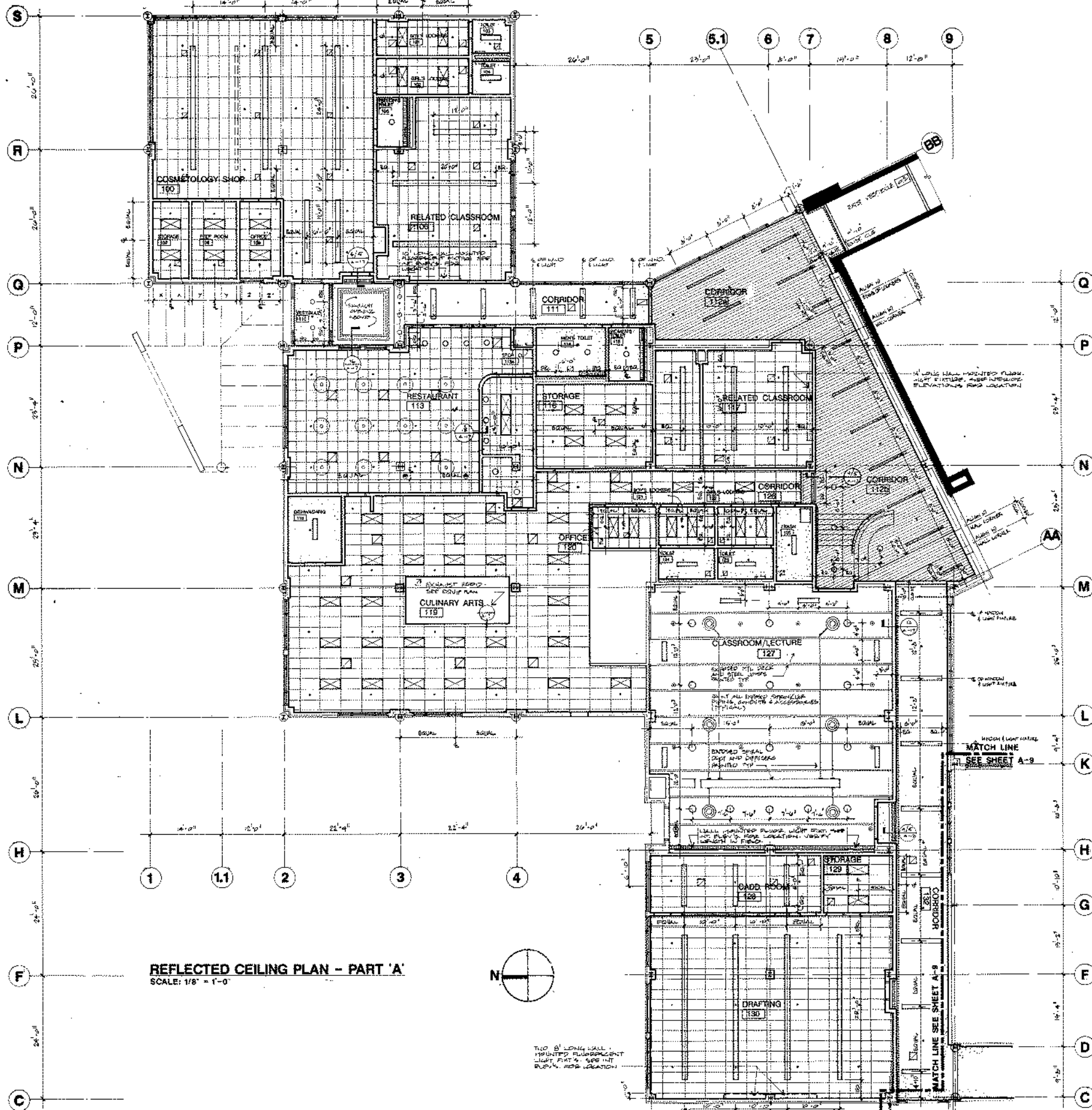
8732.00 <b>A-6</b>
-----------------------



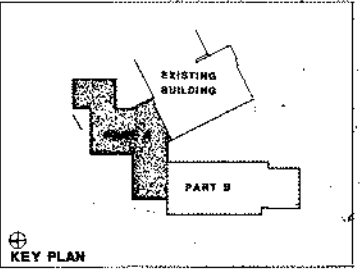
**ROOF PLAN - PART 'B'**  
SCALE: 1/8" = 1' - 0"



	<p>MKT Architects Inc. 35 Bedford Street Sohamville, Massachusetts 02143 817776-0045 Fax: 776-0076</p>		<p>ADDITIONS AND ALTERATIONS TO THE <b>SOUTH SHORE REGIONAL VOCATIONAL TECHNICAL HIGH SCHOOL</b> HANOVER, MASSACHUSETTS</p>		<p><b>ROOF PLAN - PART 'B'</b> DRAWN: DVA/LT CHECKED: VSM DATE: 01/27/09 SCALE: 1/8" = 1' - 0"</p>	<p>8732.00 <b>A-7</b></p>
--	--	--	---	--	--	-------------------------------



**REFLECTED CEILING PLAN - PART 'A'**  
SCALE: 1/8" = 1'-0"



KEY PLAN

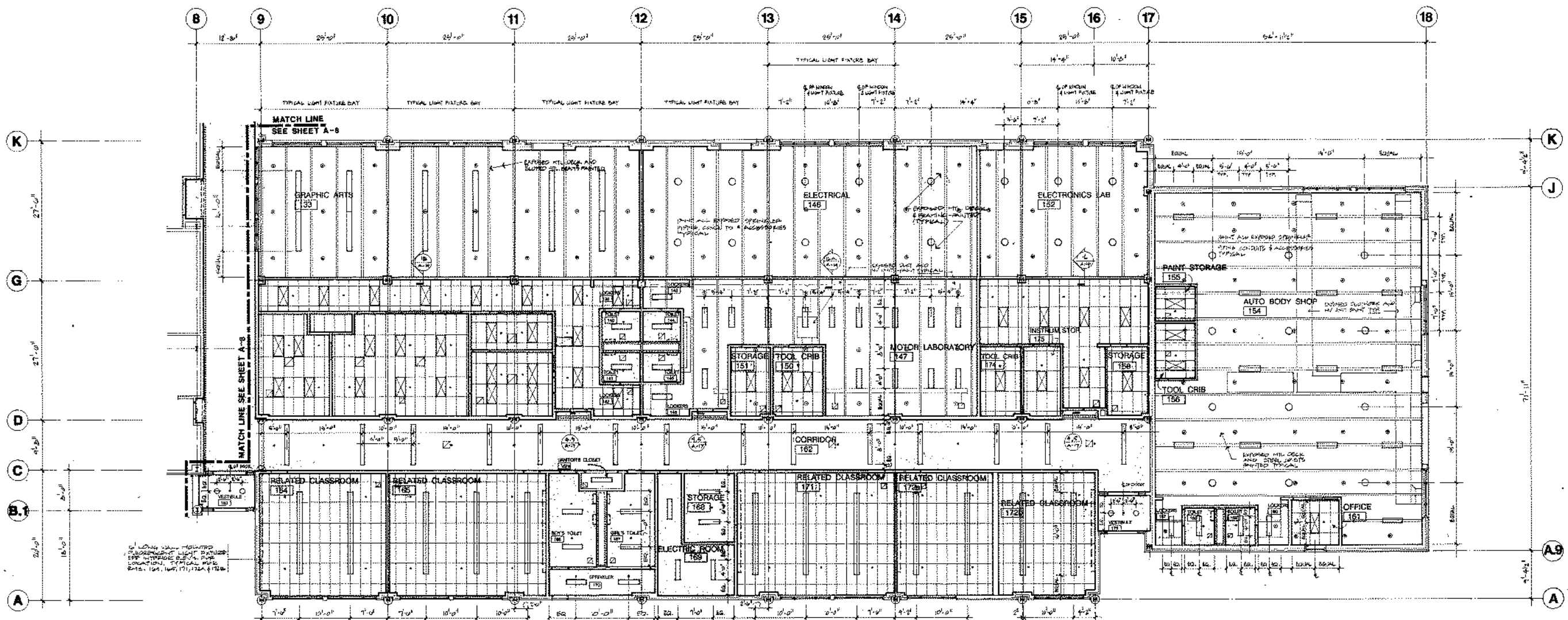
**HKT Architects Inc.**  
36 Bedford Street  
Somerville, Massachusetts 02145  
617-751-6545  
Fax 617-751-8875

**ADDITIONS AND ALTERATIONS TO THE  
SOUTH SHORE REGIONAL VOCATIONAL  
TECHNICAL HIGH SCHOOL**  
HANOVER, MASSACHUSETTS

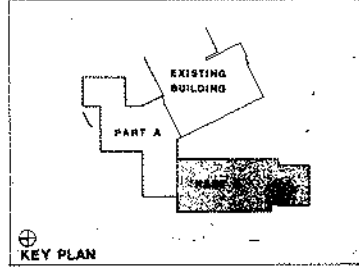
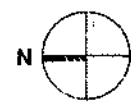
**REFLECTED CEILING PLAN - PART 'A'**  
DRAWN: DMB/vsm  
CHECKED: VSM  
DATE: 8/15/92  
SCALE: 1/8" = 1'-0"

8732.00  
**A-8**



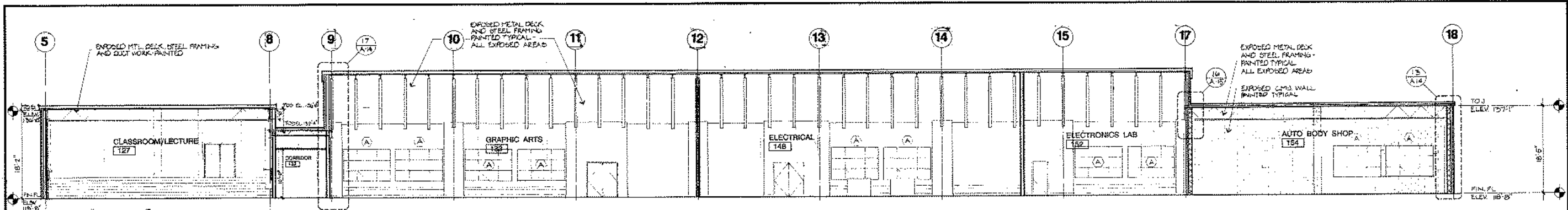


**REFLECTED CEILING PLAN - PART 'B'**  
 SCALE: 1/8" = 1'-0"

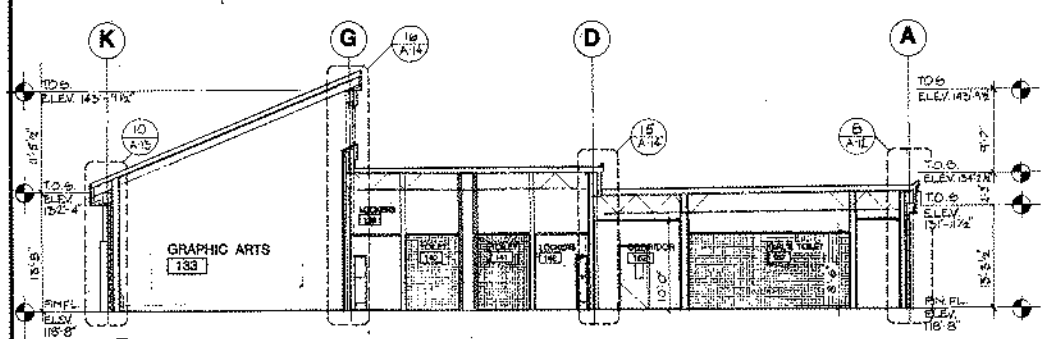


<p>HKT Architects Inc.        35 Medford Street        Scituate, Massachusetts 02542        617/778-8546        Fax 778-8678</p>		<p>ADDITIONS AND ALTERATIONS TO THE  <b>SOUTH SHORE REGIONAL VOCATIONAL        TECHNICAL HIGH SCHOOL</b>        HANOVER, MASSACHUSETTS</p>	<p><b>REFLECTED CEILING PLAN - PART 'B'</b>        DRAWN: DWP/VSM        CHECKED: HCK        DATE: 9/15/92        SCALE: 1/8" = 1'-0"</p>	<p>8732.00  <b>A-9</b></p>
--	--	--	---	--------------------------------

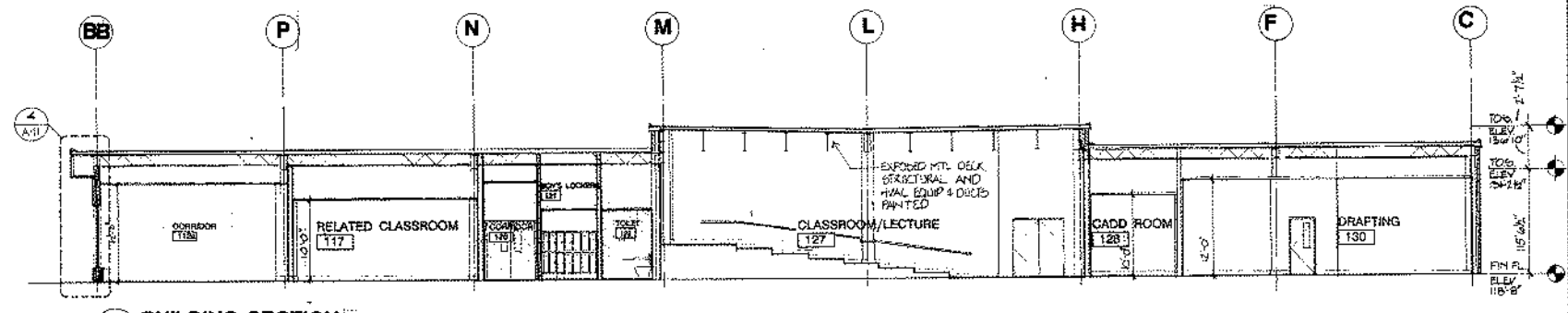




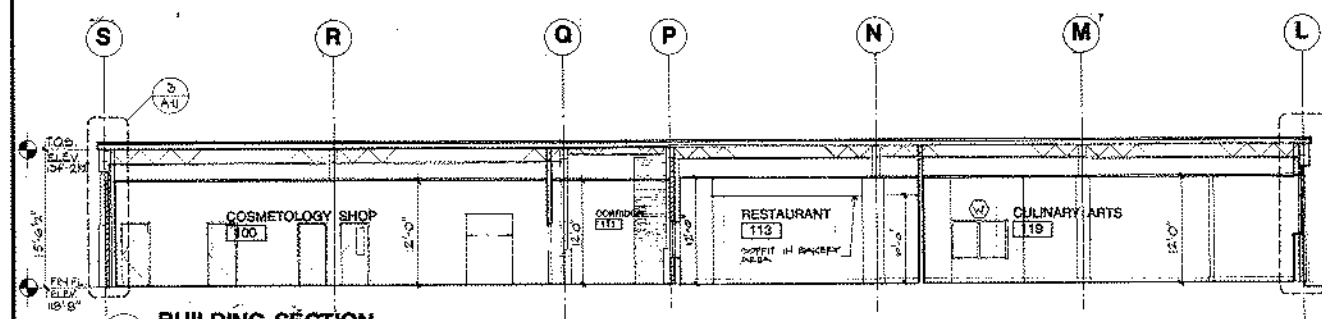
**A BUILDING SECTION**  
SCALE: 1/8" = 1' - 0"



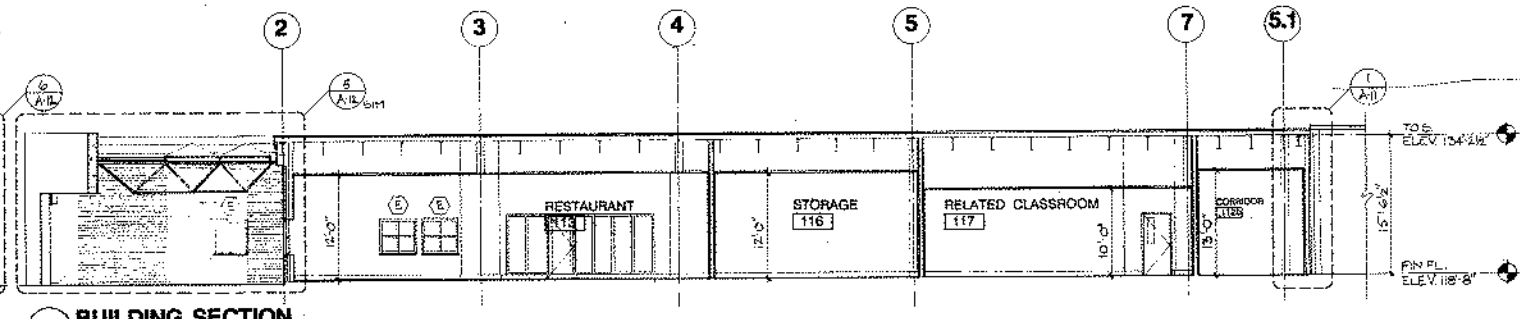
**B BUILDING SECTION**  
SCALE: 1/8" = 1' - 0"



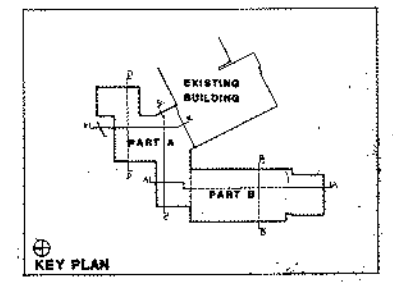
**C BUILDING SECTION**  
SCALE: 1/8" = 1' - 0"



**D BUILDING SECTION**  
SCALE: 1/8" = 1' - 0"



**E BUILDING SECTION**  
SCALE: 1/8" = 1' - 0"



KEY PLAN

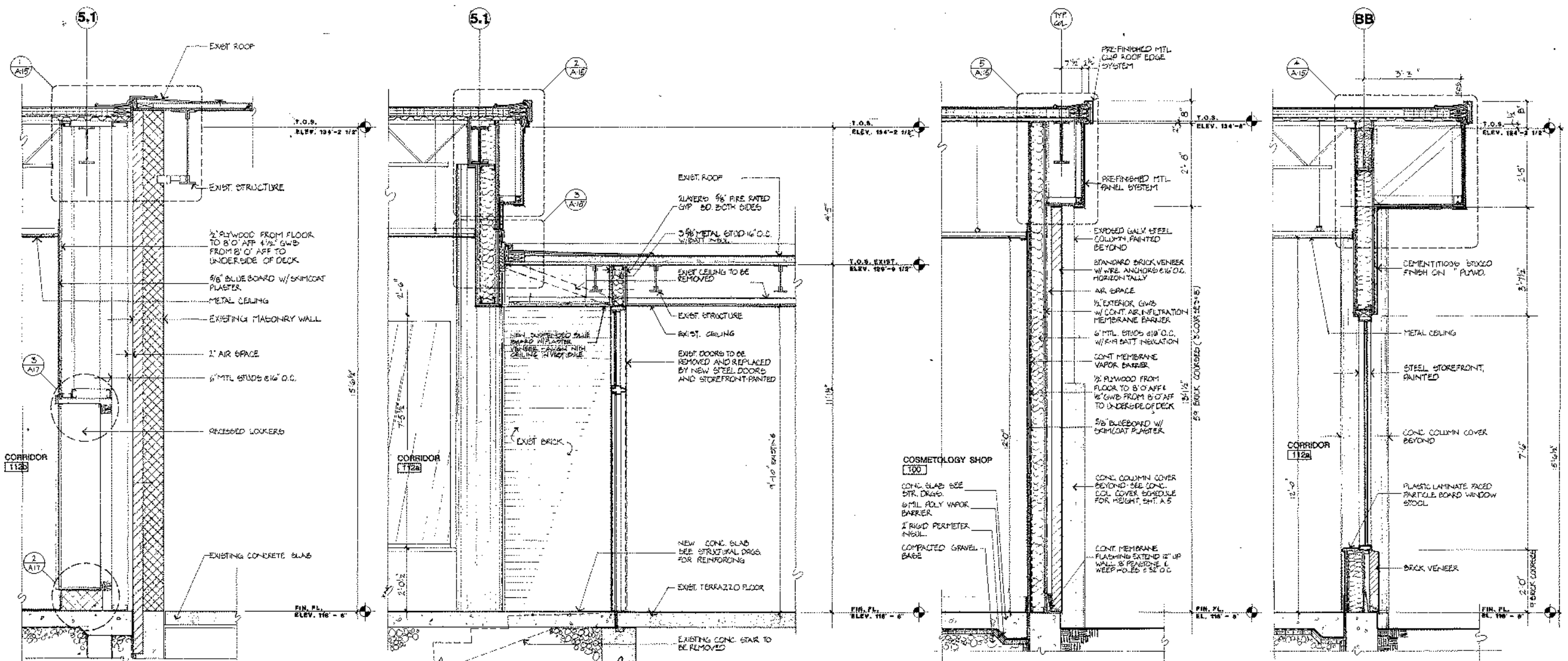
HKT Architects Inc.  
35 Medford Street  
Dorchester, Massachusetts 02142  
617-776-6645  
Fax: 776-9076



ADDITIONS AND ALTERATIONS TO THE  
**SOUTH SHORE REGIONAL VOCATIONAL  
TECHNICAL HIGH SCHOOL**  
HANOVER, MASSACHUSETTS

**BUILDING SECTIONS**  
DRAWN BY: DATE: 9/16/22  
CHECKED BY: SCALE: 1/8" = 1' - 0"

6/22/09  
**A-10**

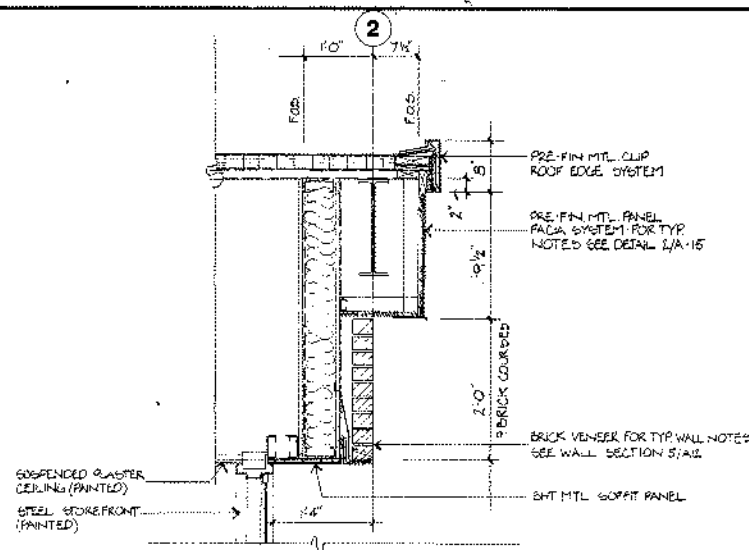


1 WALL SECT. BETWEEN EXIST. & NEW BUILDINGS  
SCALE: 3/4" = 1' - 0"

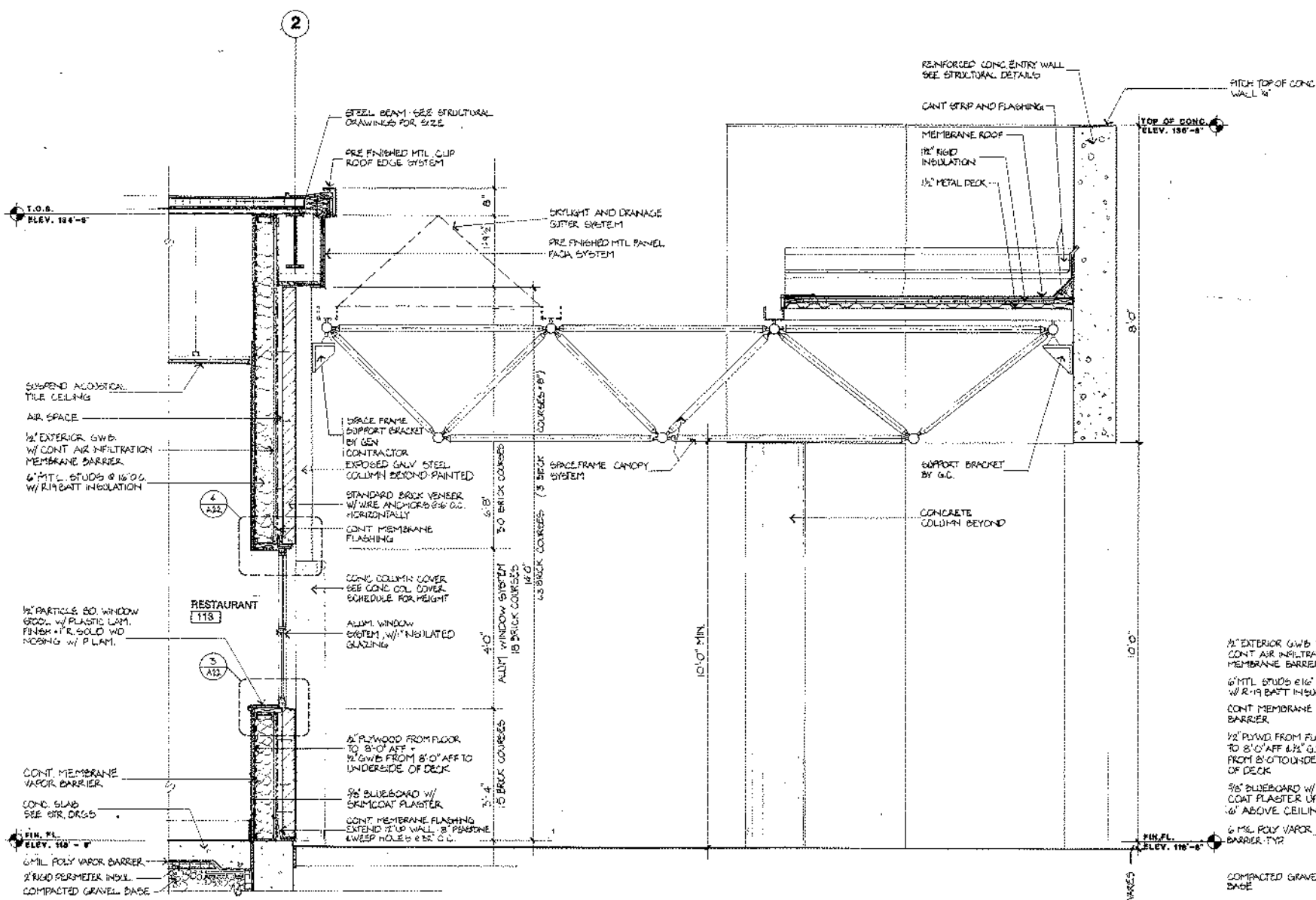
2 WALL SECT. BETWEEN EXIST. ENTRY AND NEW BUILDING  
SCALE: 3/4" = 1' - 0"

3 TYP. EXT. WALL SECT. AT EXPOSED COL.  
SCALE: 3/4" = 1' - 0"

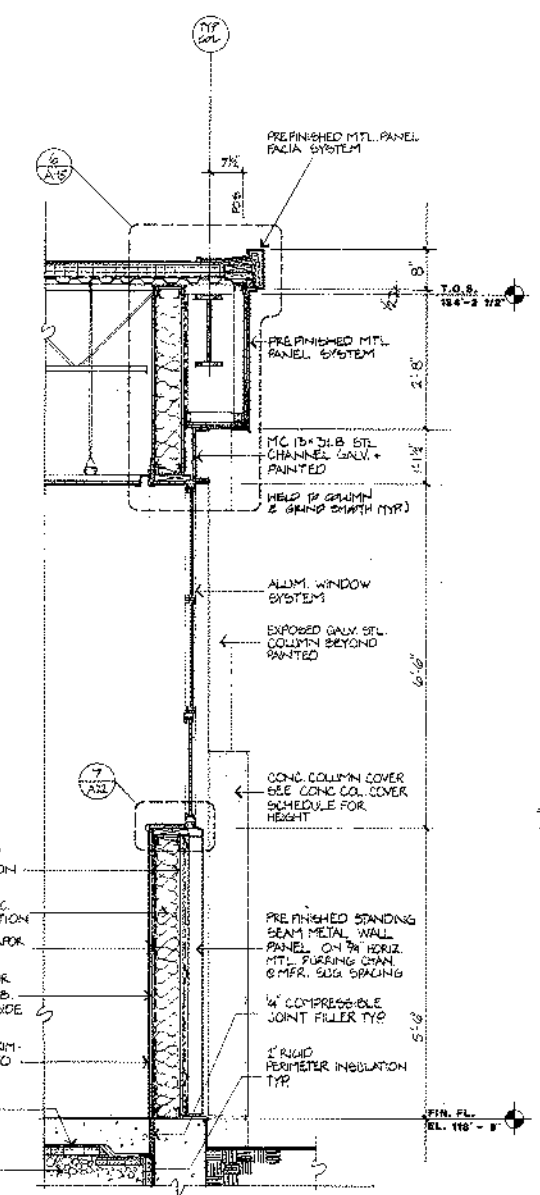
4 WINDOW WALL AT CORR. 111 AND 112a  
SCALE: 3/4" = 1' - 0"



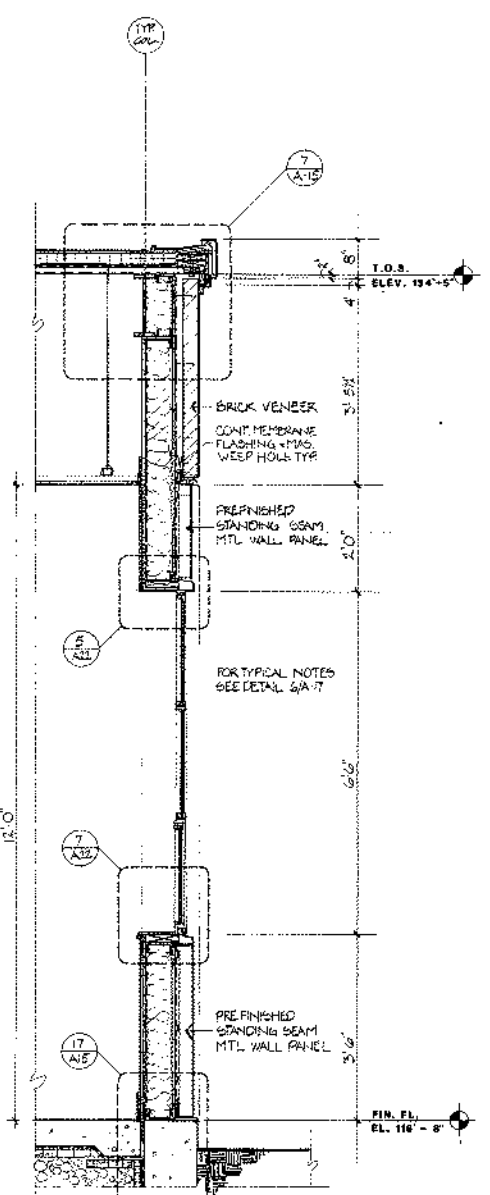
**5A SECTION THRU ENTRY @ VESTIBULE**  
SCALE: 1" = 1'-0"



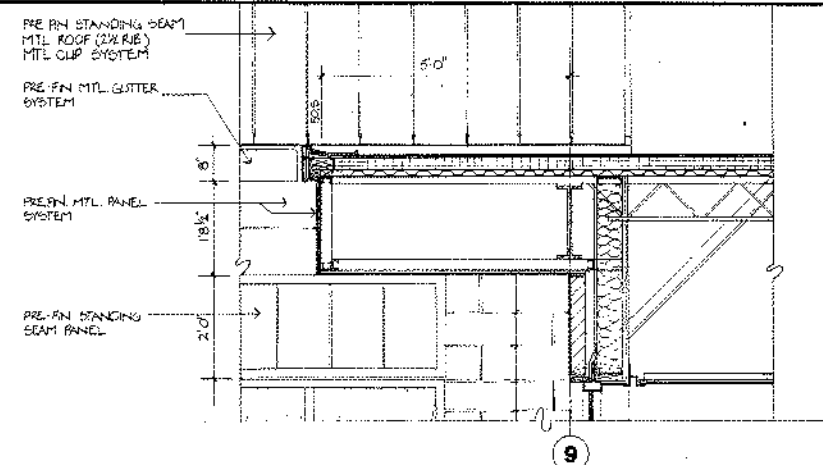
**5 WALL SECTION THRU CANOPY ENTRY**  
SCALE: 3/4" = 1'-0"



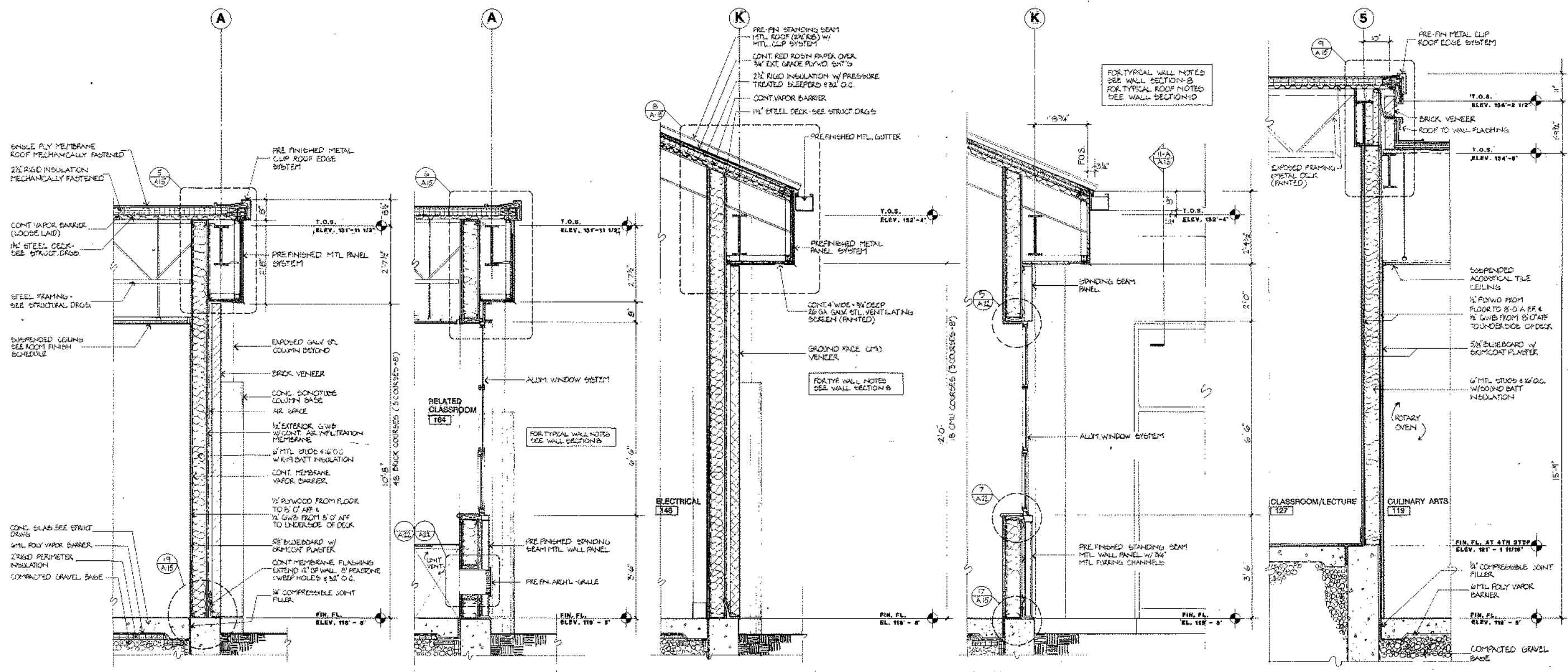
**6 TYP. WALL SECT THRU WINDOW**  
SCALE: 3/4" = 1'-0"



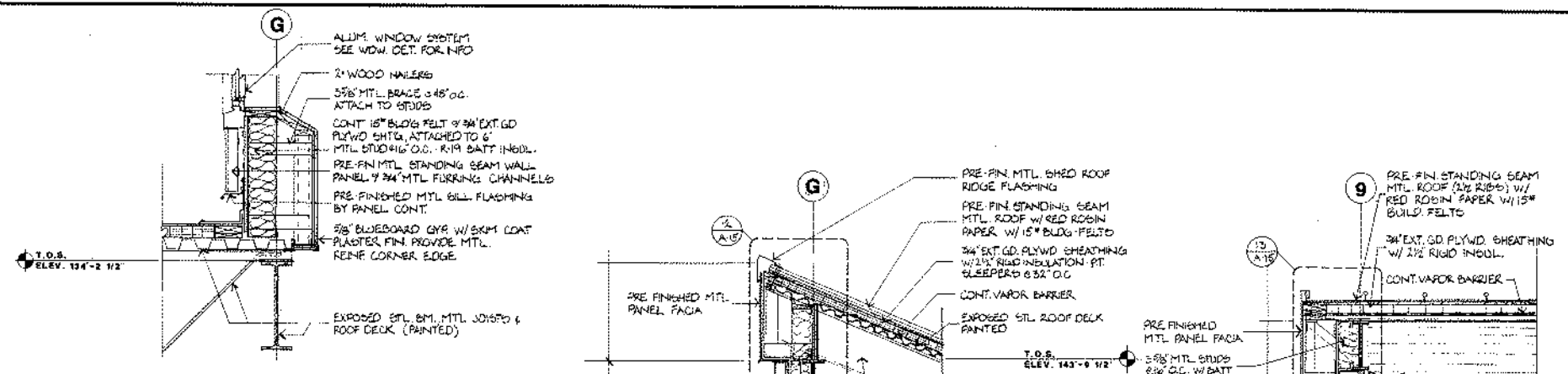
**7 TYP. WALL SECT THRU WINDOW**  
SCALE: 3/4" = 1'-0"



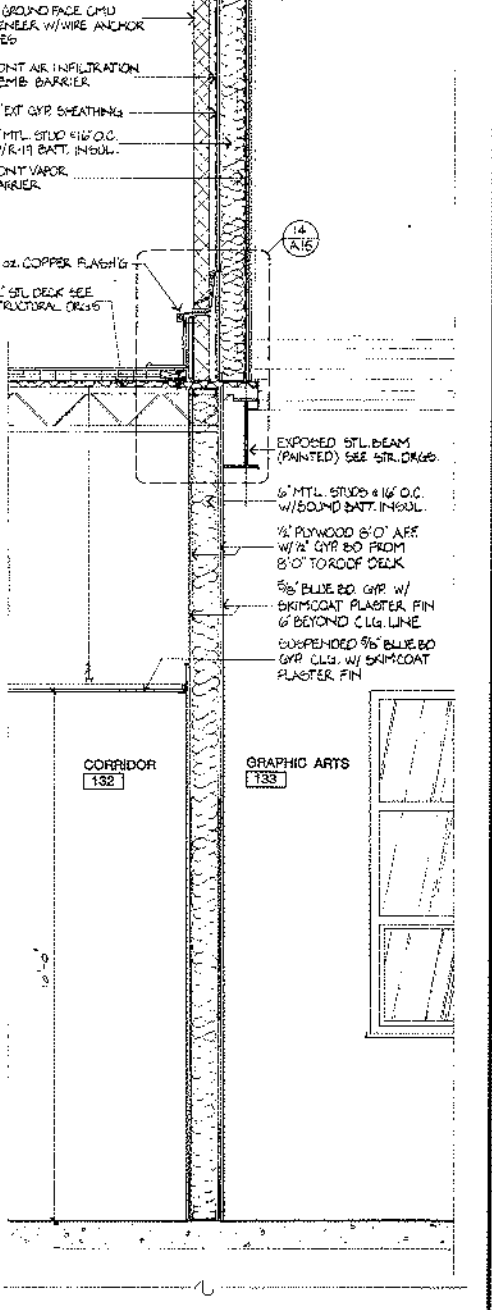
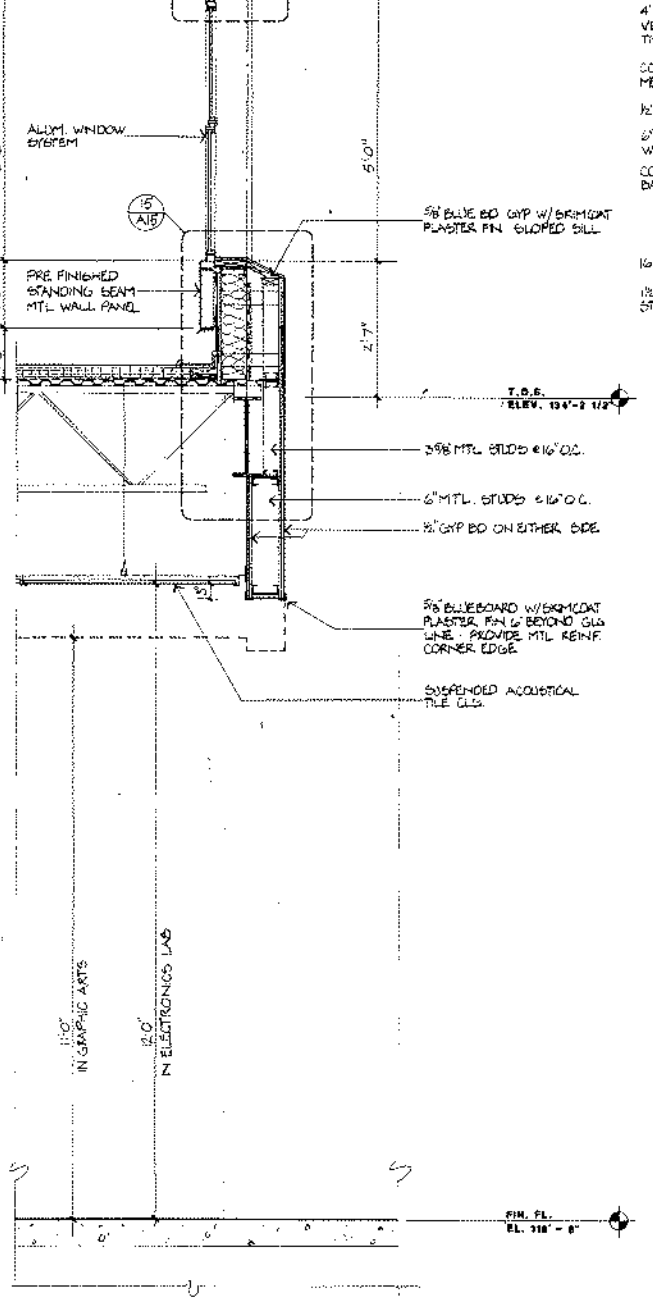
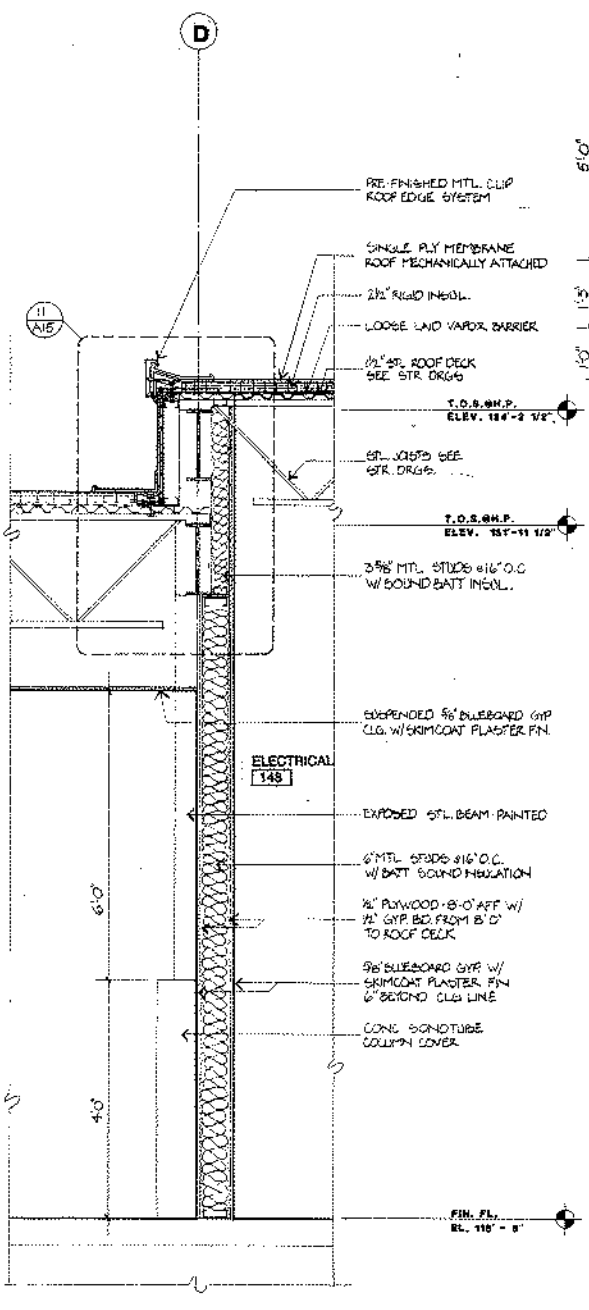
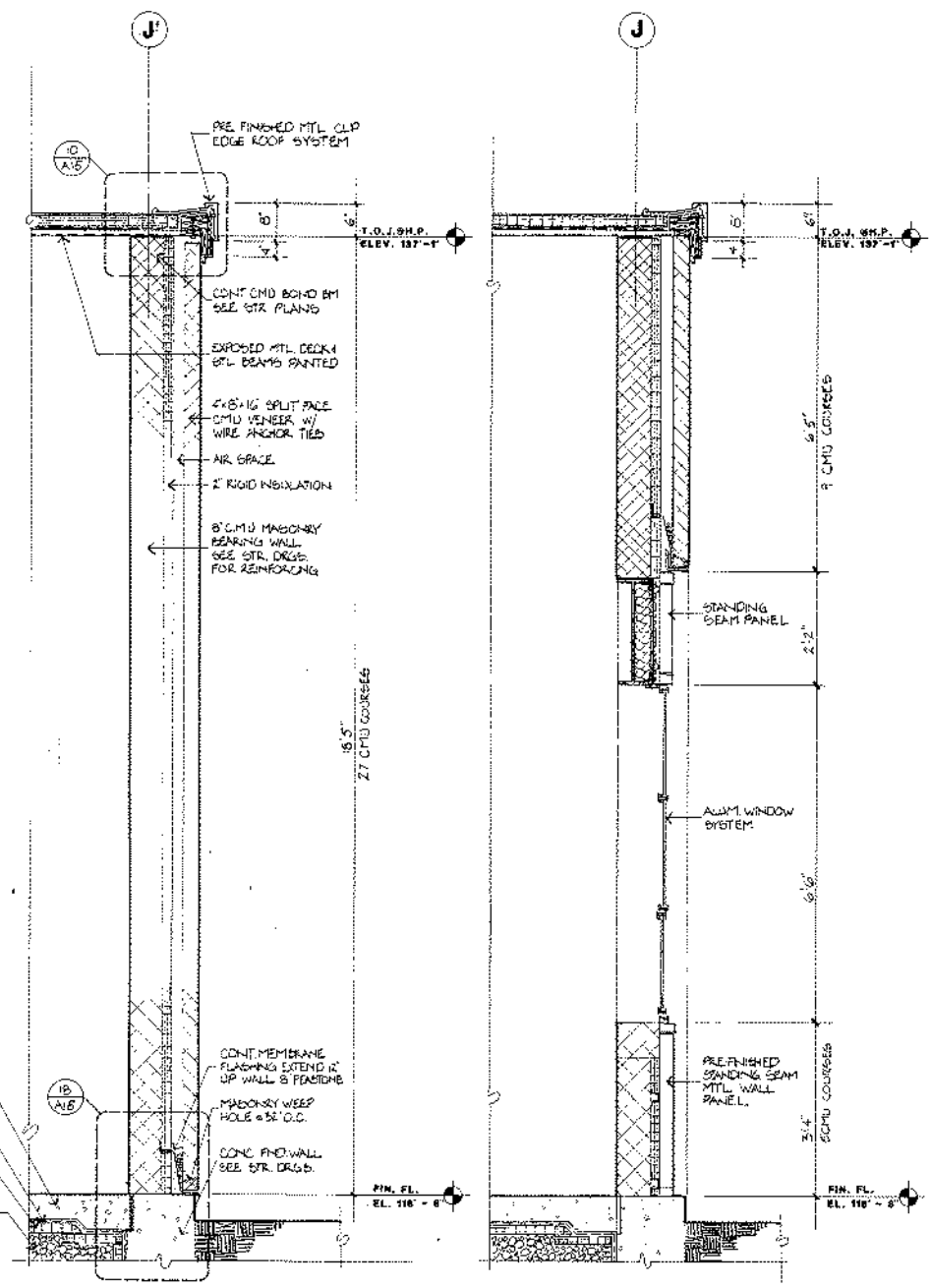
**11 A SLOPED ROOF AND FLAT ROOF JUNCTION**  
SCALE: 3/4" = 1'-0"



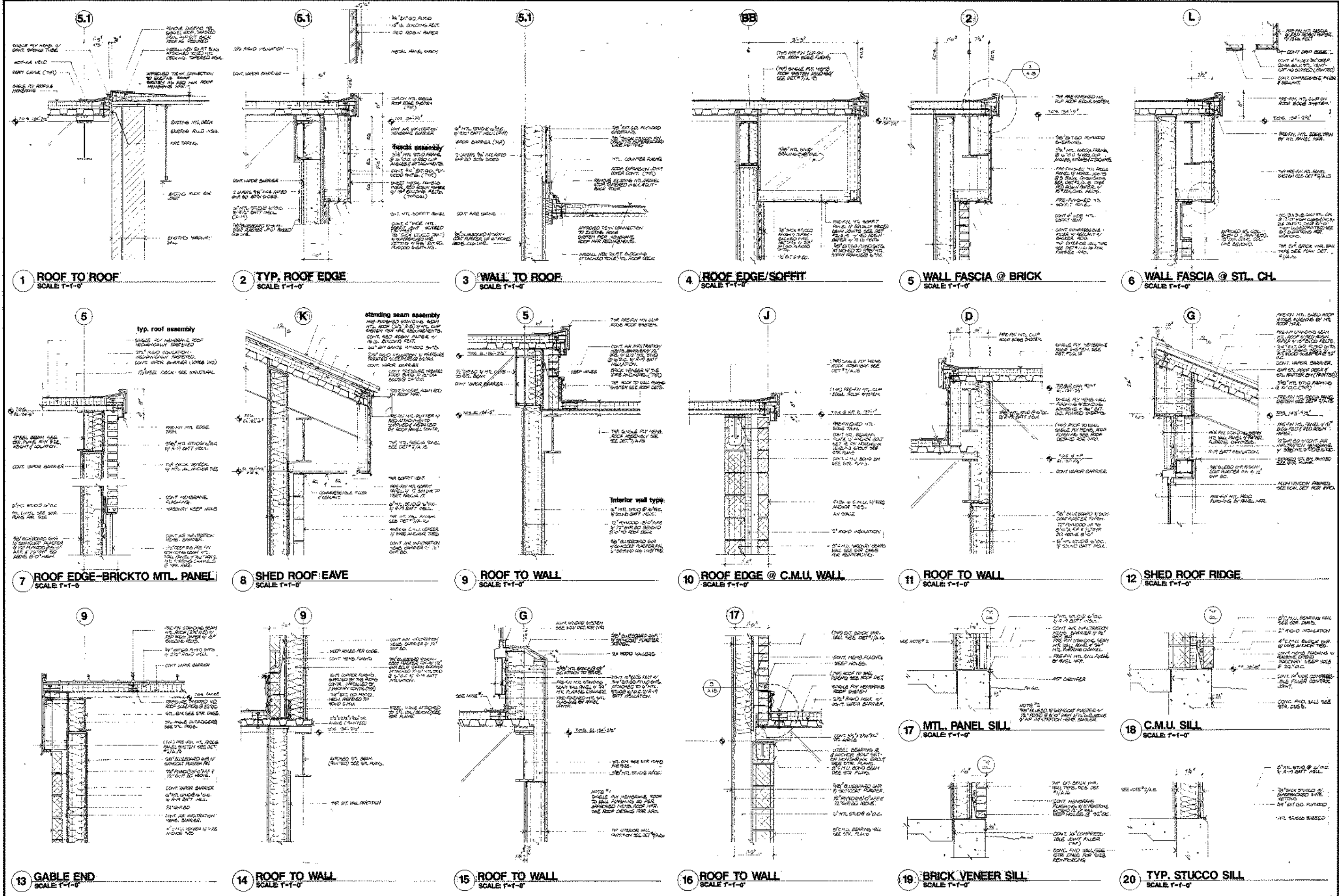
**8 TYP. WALL SECT. AT BRICK AND EXP. COL.** SCALE: 3/4" = 1'-0"  
**9 TYP. WALL SECT. AT WIND. AND EXPOSED COLUMN** SCALE: 3/4" = 1'-0"  
**10 TYP. WALL SECT. AT SLOPED ROOF AND C.M.U.** SCALE: 3/4" = 1'-0"  
**11 TYP. WALL SECT. AT SLOPED ROOF AND WINDOW** SCALE: 3/4" = 1'-0"  
**12 WALL SECTION THRU LECTURE** SCALE: 3/4" = 1'-0"




**16A CLERESTORY DETAIL AT EXPOSED CLG.**  
SCALE: 1/4" = 1'-0"



**13 WALL SECT. AT AUTO BODY SHOP** **14 WALL SECT. AT AUTO BODY SHOP** **15 WALL SECT. BETWEEN CORRIDOR AND SHOPS** **16 WALL SECTION AT CLERESTORY** **17 WALL SECTION AT SLOPED ROOF**  
SCALE: 3/4" = 1'-0"

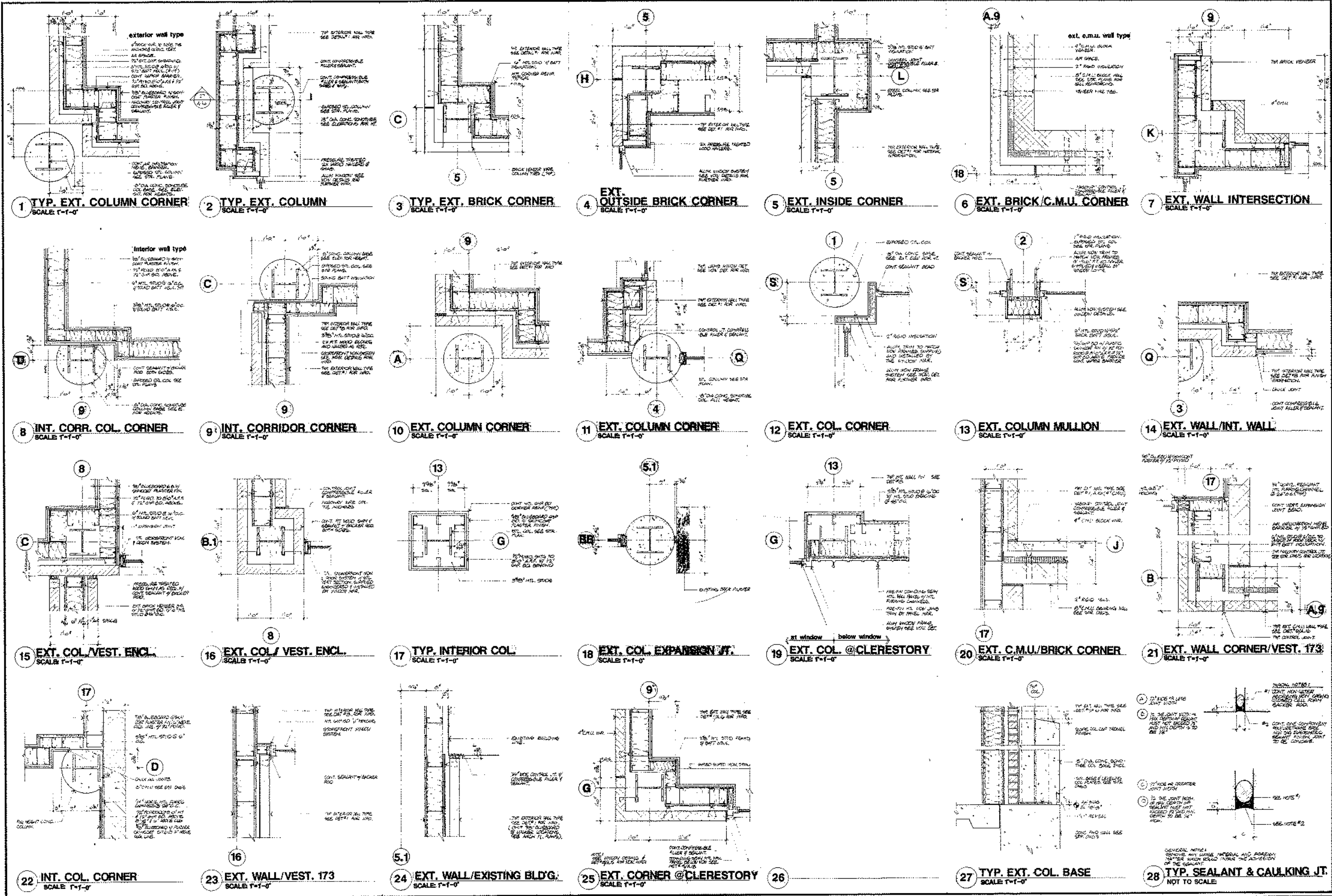



**NIC Architects Inc.**  
 35 Bedford Street  
 Somerville, Massachusetts 02147  
 P 617-764-6546  
 F 617-764-6576

ADDITIONS AND ALTERATIONS TO THE  
**SOUTH SHORE REGIONAL VOCATIONAL  
 TECHNICAL HIGH SCHOOL**  
 HANOVER, MASSACHUSETTS

**WALL SECTION DETAILS**  
 DRAWN R.D.  
 CHECKED V.G.M.  
 DATE: 9/18/88  
 SCALE: 1/4"=1'-0"  
 8732.00  
**A-15**

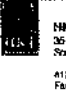




**GENERAL NOTES:**

- 1) SEE NOTE #1
- 2) SEE NOTE #2
- 3) SEE NOTE #3
- 4) SEE NOTE #4
- 5) SEE NOTE #5
- 6) SEE NOTE #6
- 7) SEE NOTE #7
- 8) SEE NOTE #8
- 9) SEE NOTE #9
- 10) SEE NOTE #10
- 11) SEE NOTE #11
- 12) SEE NOTE #12
- 13) SEE NOTE #13
- 14) SEE NOTE #14
- 15) SEE NOTE #15
- 16) SEE NOTE #16
- 17) SEE NOTE #17
- 18) SEE NOTE #18
- 19) SEE NOTE #19
- 20) SEE NOTE #20
- 21) SEE NOTE #21
- 22) SEE NOTE #22
- 23) SEE NOTE #23
- 24) SEE NOTE #24
- 25) SEE NOTE #25
- 26) SEE NOTE #26
- 27) SEE NOTE #27
- 28) SEE NOTE #28

**GENERAL NOTES:**  
 1) SEE NOTE #1  
 2) SEE NOTE #2  
 3) SEE NOTE #3  
 4) SEE NOTE #4  
 5) SEE NOTE #5  
 6) SEE NOTE #6  
 7) SEE NOTE #7  
 8) SEE NOTE #8  
 9) SEE NOTE #9  
 10) SEE NOTE #10  
 11) SEE NOTE #11  
 12) SEE NOTE #12  
 13) SEE NOTE #13  
 14) SEE NOTE #14  
 15) SEE NOTE #15  
 16) SEE NOTE #16  
 17) SEE NOTE #17  
 18) SEE NOTE #18  
 19) SEE NOTE #19  
 20) SEE NOTE #20  
 21) SEE NOTE #21  
 22) SEE NOTE #22  
 23) SEE NOTE #23  
 24) SEE NOTE #24  
 25) SEE NOTE #25  
 26) SEE NOTE #26  
 27) SEE NOTE #27  
 28) SEE NOTE #28

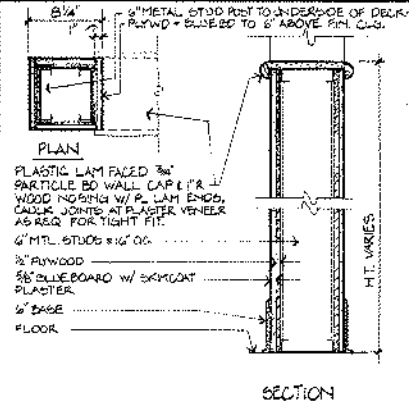

**NHY Architects Inc.**  
 30 Market Street  
 Somerville, Massachusetts 02145  
 617-771-6500  
 Fax: 771-6476



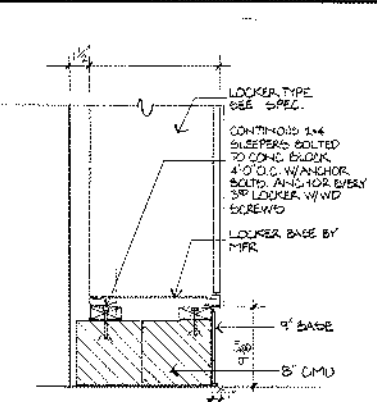
ADDITIONS AND ALTERATIONS TO THE  
**SOUTH SHORE REGIONAL VOCATIONAL  
 TECHNICAL HIGH SCHOOL**  
 HANOVER, MASSACHUSETTS

**PLAN DETAILS**  
 DRAWN: P.A.  
 CHECKED: J.S.M.  
 DATE: 8/28/88  
 SCALE: 1/4" = 1'-0"  
 8732.00  
**A-16**

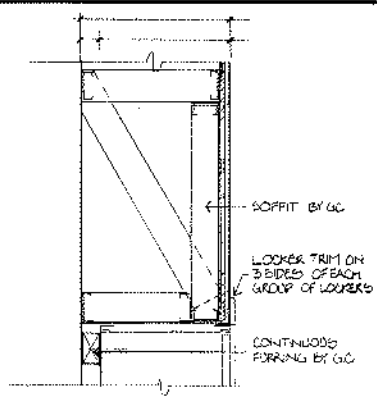




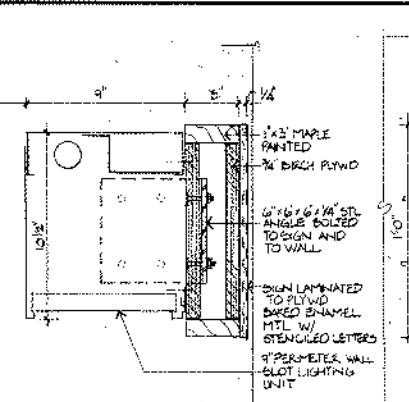
**1 TYPICAL LOW PARTITION**  
SCALE: 1 1/2" = 1'-0"



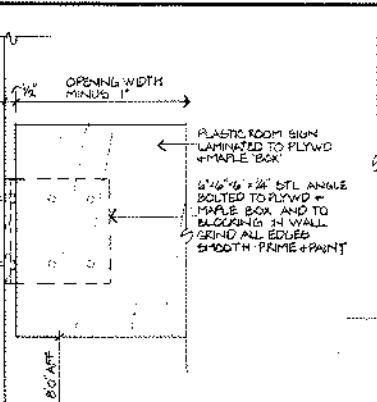
**2 RECESSED LOCKER BASE**  
SCALE: 1 1/2" = 1'-0"



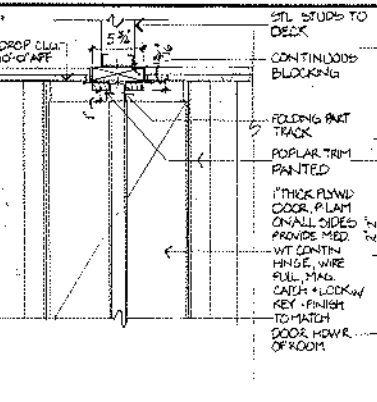
**3 RECESSED LOCKER HEAD**  
SCALE: 1 1/2" = 1'-0"



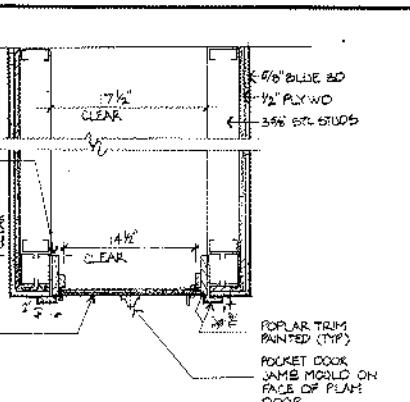
**4 SIGNAGE LIGHT SOFFIT SECT.**  
SCALE: 3" = 1'-0"



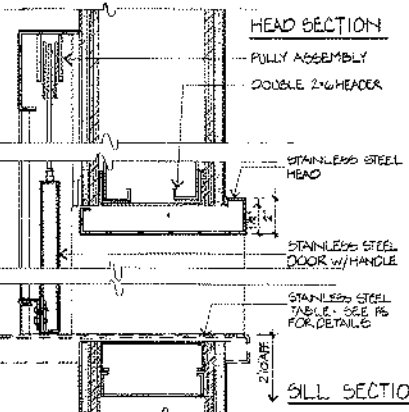
**5 SIGNAGE LIGHT SOFFIT ELEV.**  
SCALE: 3" = 1'-0"



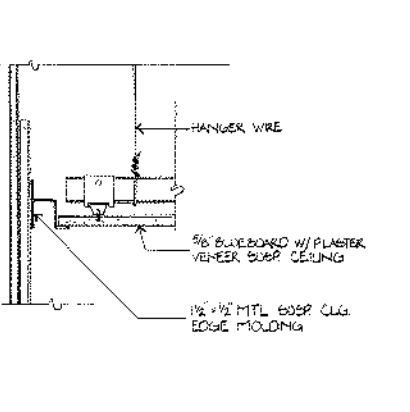
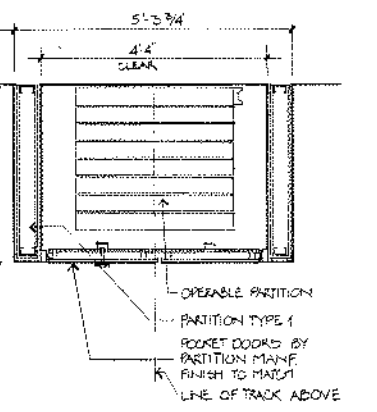
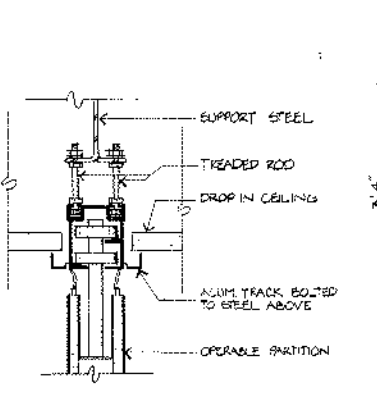
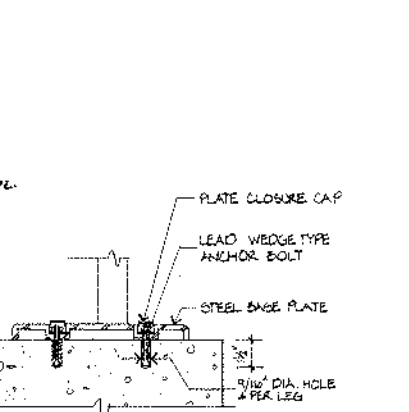
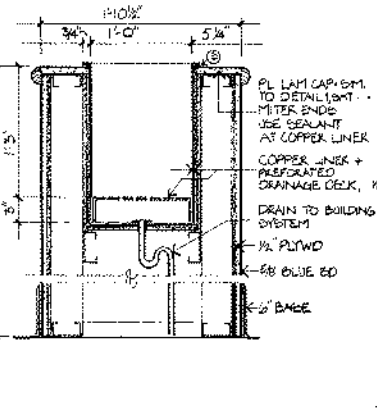
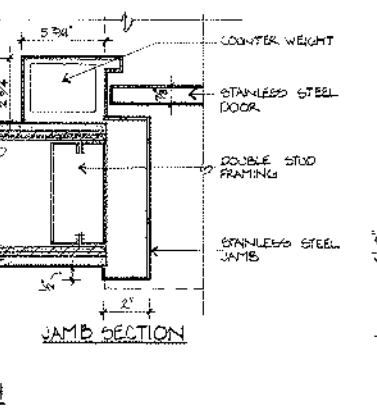
**6 FOLDING DOOR CEILING DTL.**  
SCALE: 1 1/2" = 1'-0"



**7 FOLDING DOOR CLOSET PLAN**  
SCALE: 1 1/2" = 1'-0"



**8 PASS - THRU WINDOW DETAILS**  
SCALE: 3" = 1'-0"



**14 DETAIL @ STAIR FROM CLASSROOM / LECTURE**  
SCALE: 3" = 1'-0"

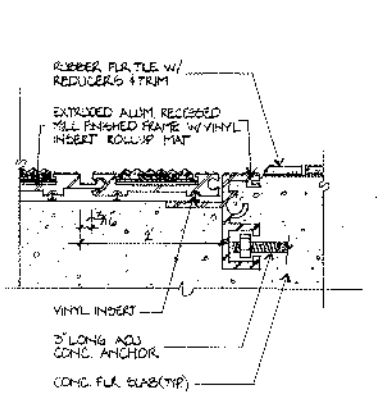
**9 PLANTER DETAIL**  
SCALE: 1 1/2" = 1'-0"

**10 TABLE FASTENING DETAIL**  
SCALE: 3" = 1'-0"

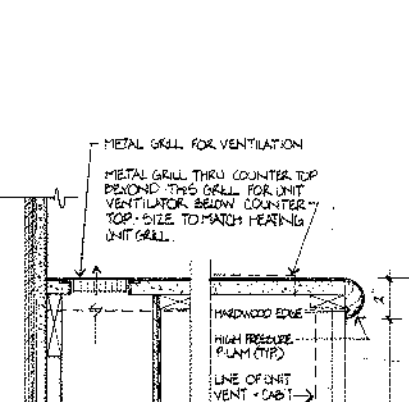
**11 FOLDING PART. CEILING DTL.**  
SCALE: 3" = 1'-0"

**12 FOLDING PART. CLOSET PLAN**  
SCALE: 3/4" = 1'-0"

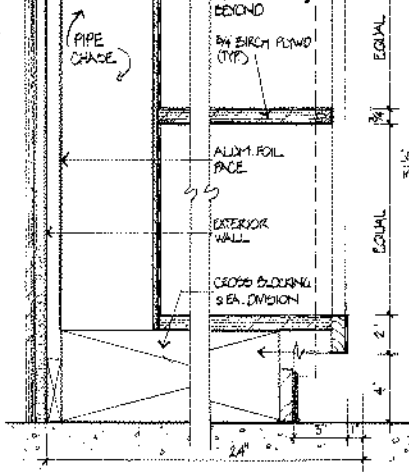
**13 EXPAN. JNT. CLG. DETAIL**  
SCALE: 3" = 1'-0"



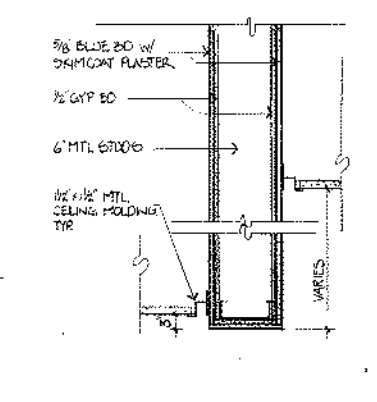
**15 RECESSED FLR MAT DETAIL**  
FULL SCALE



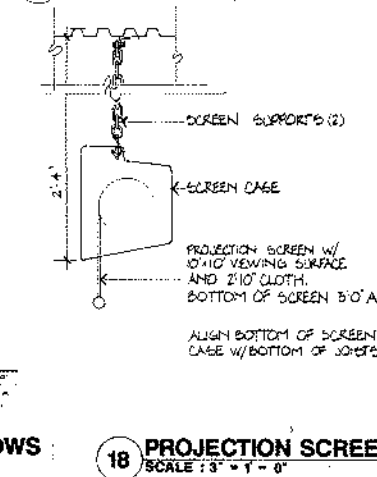
**16 SKYLIGHT SOFFIT DETAIL**  
SCALE: 1 1/2" = 1'-0"



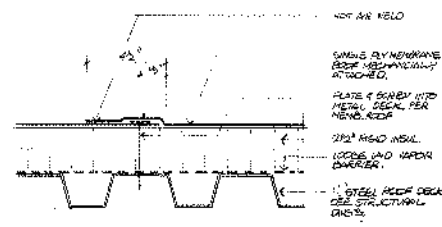
**17 CABINET DETAIL UNDER WINDOWS**  
SCALE: 3" = 1'-0"



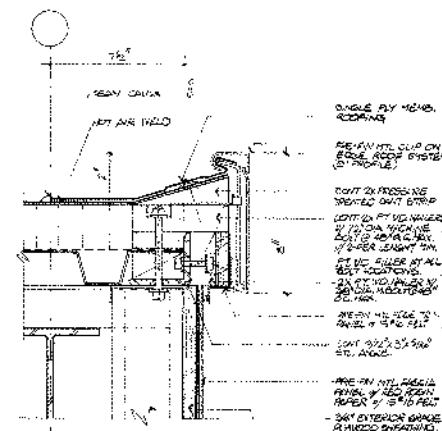
**18 SOFFIT DETAIL**  
SCALE: 1 1/2" = 1'-0"



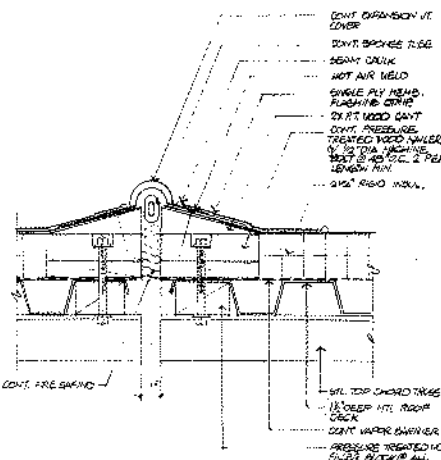
**18 PROJECTION SCREEN DETAIL**  
SCALE: 3" = 1'-0"



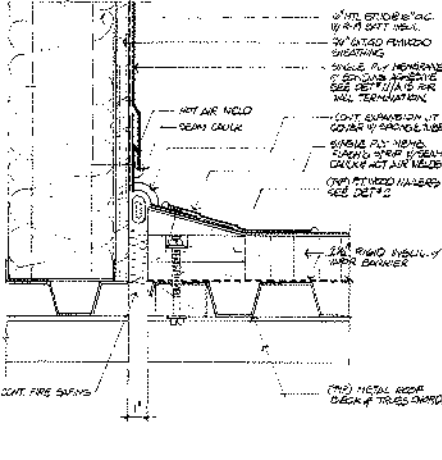
1 TYP. ROOF MEMBRANE SPLICE  
SCALE 3/4"=1'-0"



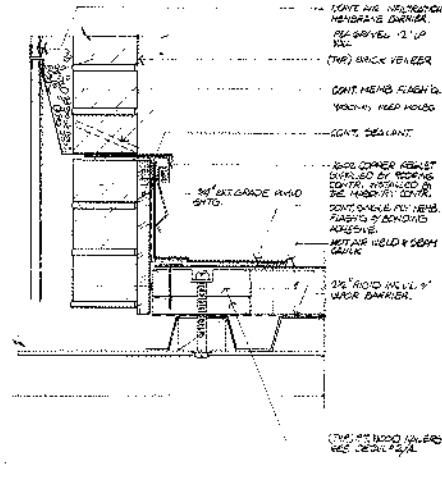
2 TYP. ROOF EDGE FLASHING  
SCALE 3/4"=1'-0"



3 TYP. ROOF TO ROOF EXPANSION JT.  
SCALE 3/4"=1'-0"

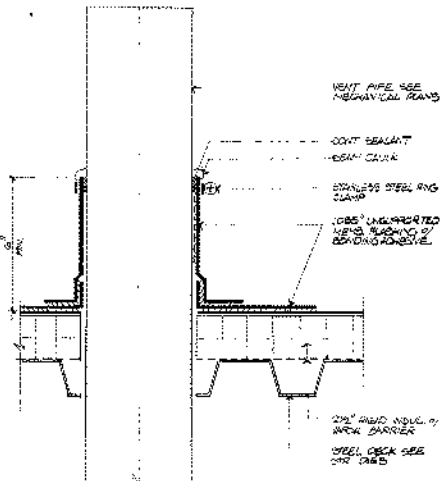


4 ROOF TO WALL EXPANSION JOINT  
SCALE 3/4"=1'-0"

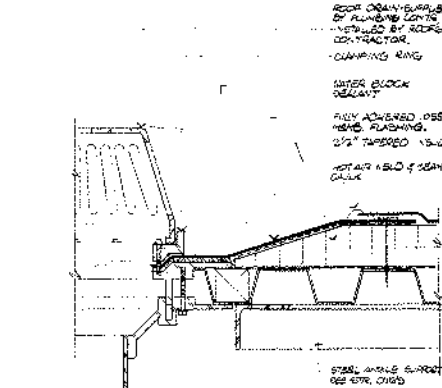


5 ROOF TO BRICK WALL FLASHING  
SCALE 3/4"=1'-0"

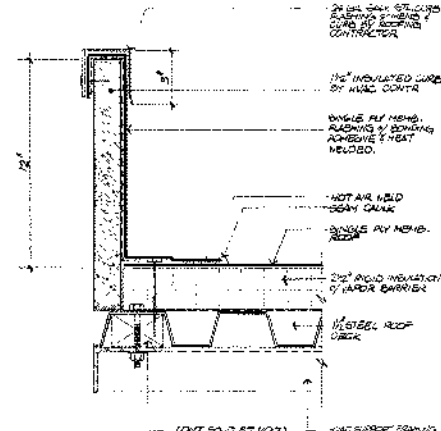
6 DELETE



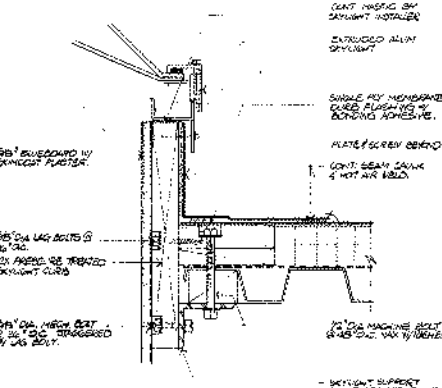
7 TYP. VENT PIPE  
SCALE 3/4"=1'-0"



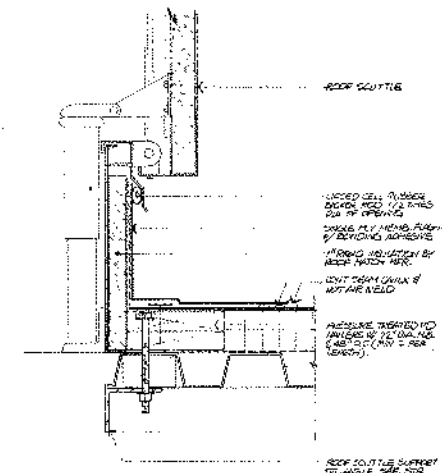
8 ROOF DRAIN SUMP  
SCALE 3/4"=1'-0"



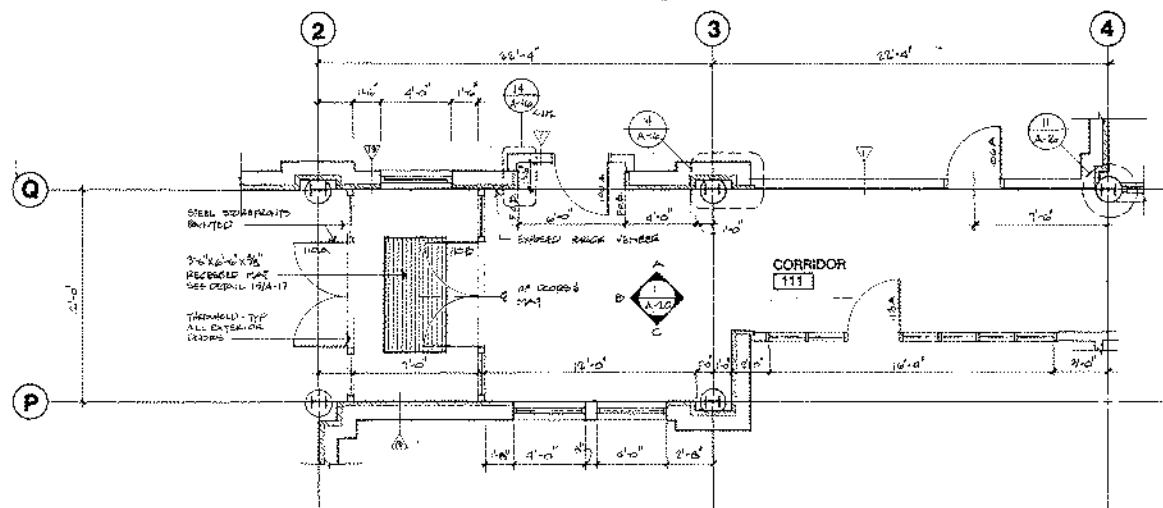
9 EXHAUST FAN/H.V.A.C. CURB  
SCALE 3/4"=1'-0"



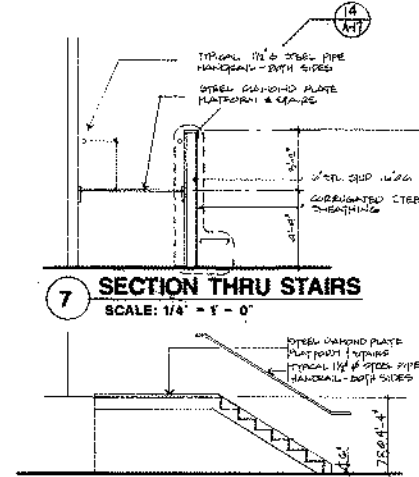
10 SKY LIGHT FLASHING  
SCALE 3/4"=1'-0"



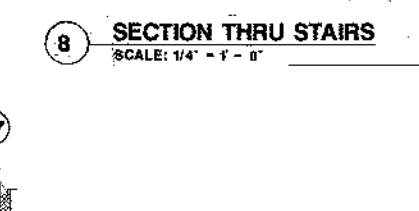
11 ROOF SCUTTLE FLASHING  
SCALE 3/4"=1'-0"



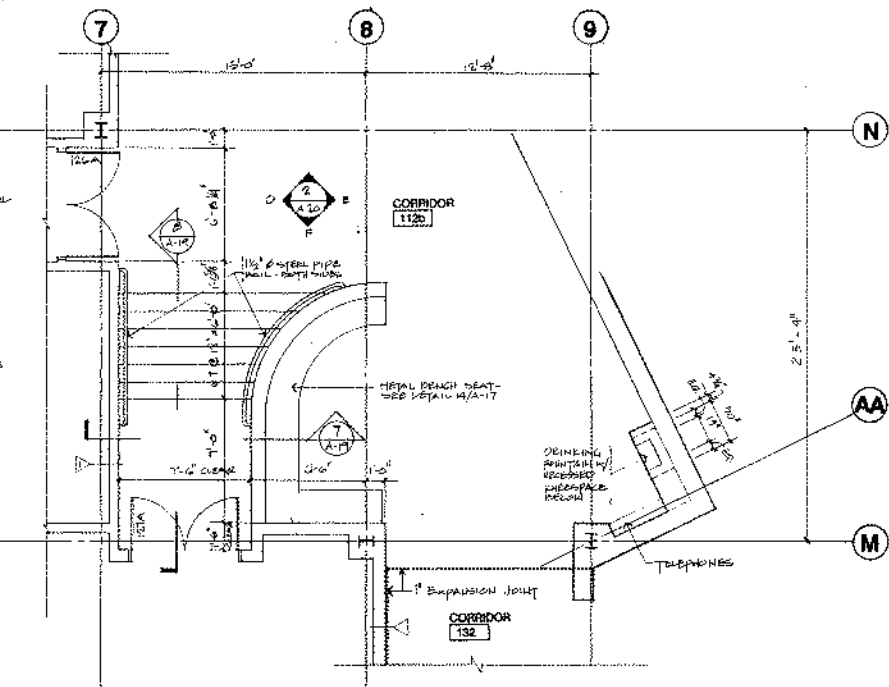
**1 ENLARGED FLOOR PLAN - VESTIBULE 110**  
SCALE: 1/4" = 1' - 0"



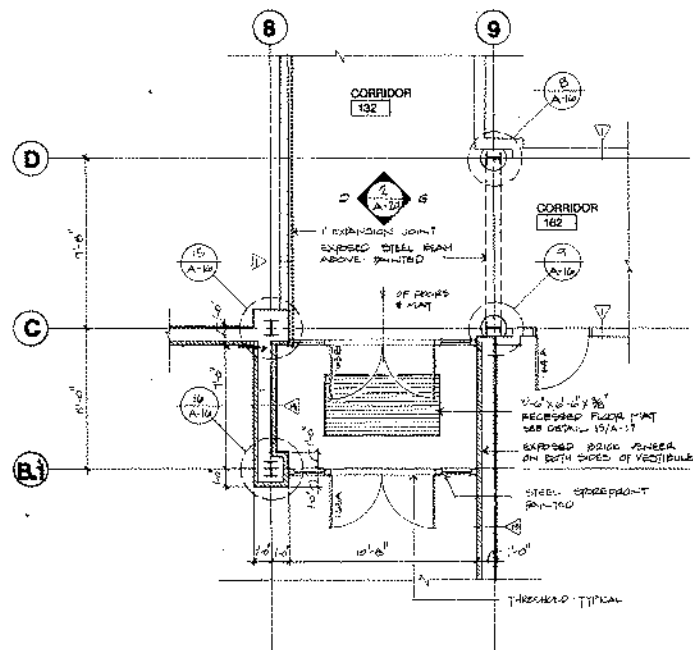
**7 SECTION THRU STAIRS**  
SCALE: 1/4" = 1' - 0"



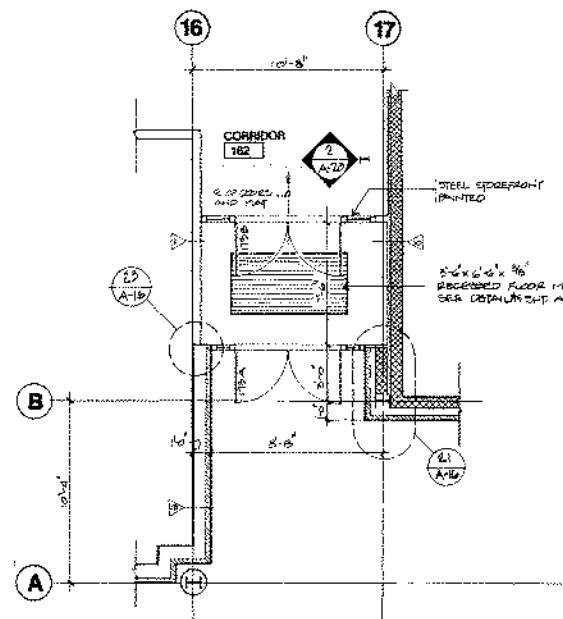
**8 SECTION THRU STAIRS**  
SCALE: 1/4" = 1' - 0"



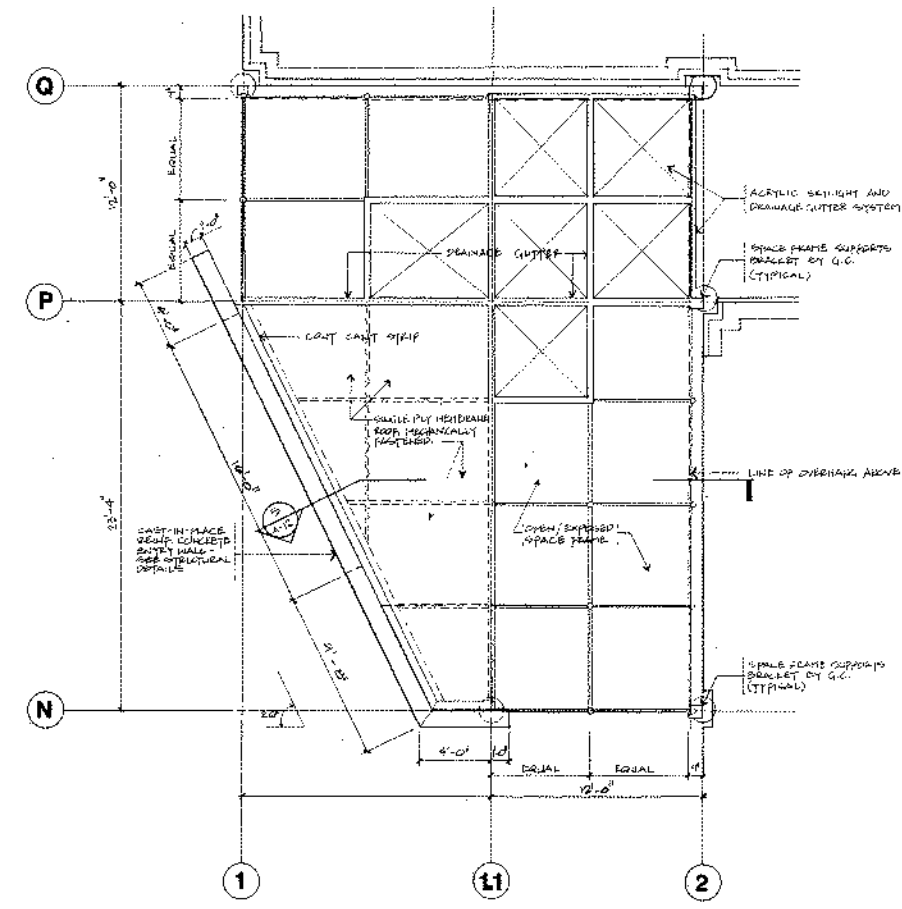
**5 ENLARGED FLOOR PLAN - CORRIDOR 112b**  
SCALE: 1/4" = 1' - 0"



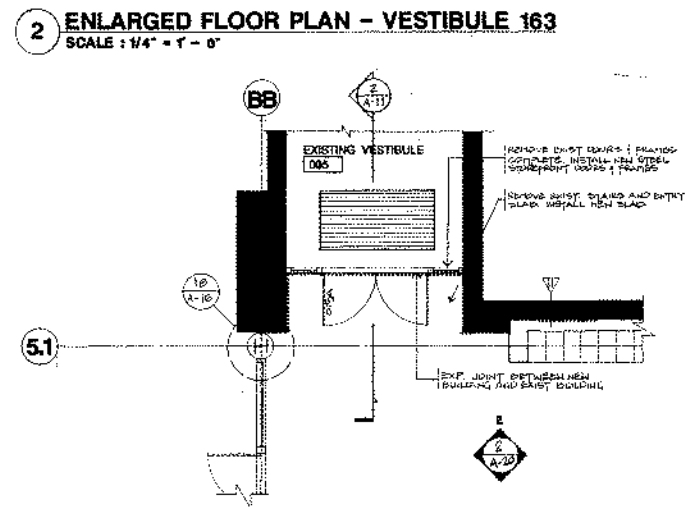
**2 ENLARGED FLOOR PLAN - VESTIBULE 163**  
SCALE: 1/4" = 1' - 0"



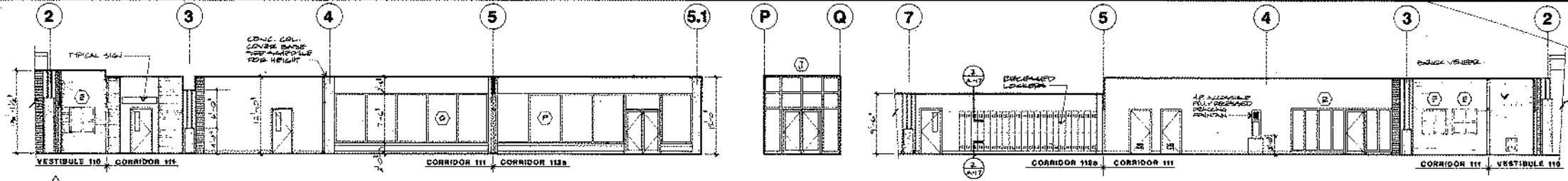
**3 ENLARGED FLOOR PLAN - VESTIBULE 173**  
SCALE: 1/4" = 1' - 0"



**6 ENLARGED ROOF PLAN - ENTRY CANOPY**  
SCALE: 1/4" = 1' - 0"



**4 ENLARGED FLOOR PLAN - CORR. 112a AND EXIST. CORR.**  
SCALE: 1/4" = 1' - 0"

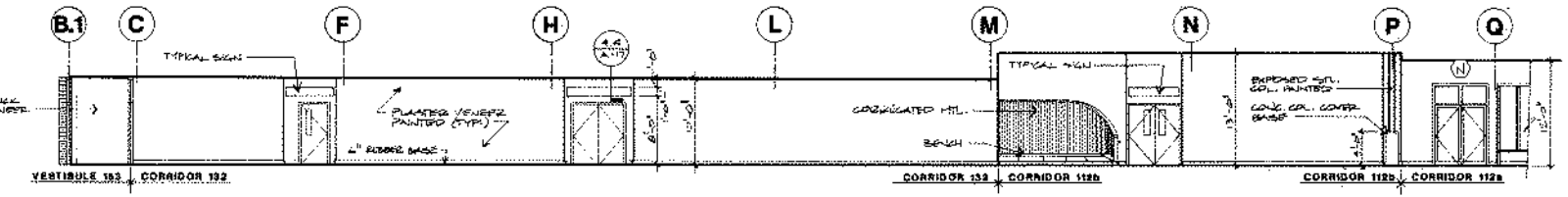


**A VESTIBULE 110, CORRIDOR 111 AND 112a**

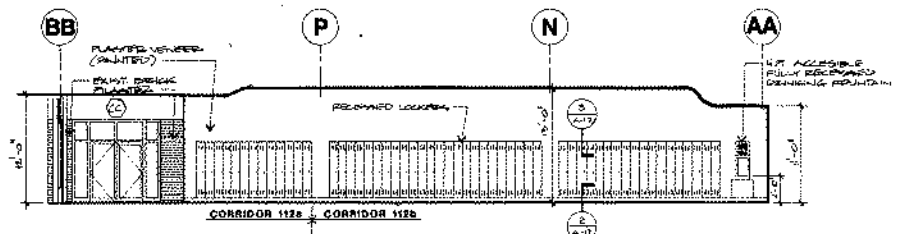
**B CORR. 111**

**C CORRIDOR 112a, 111 AND VESTIBULE 110**

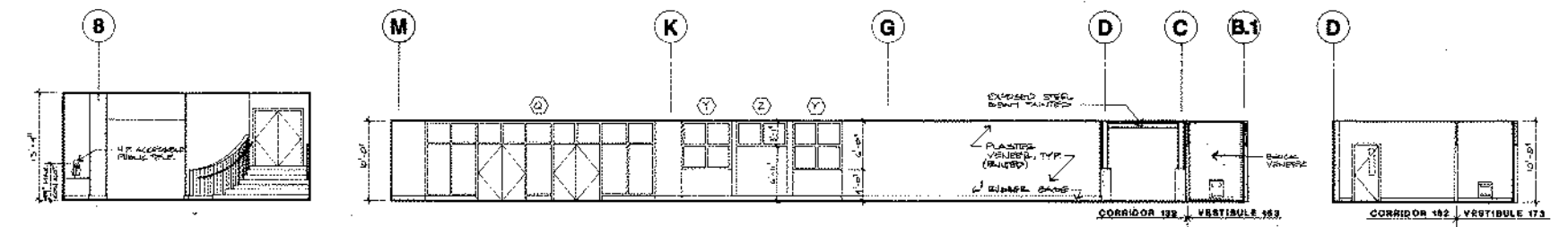
**1 INTERIOR ELEVATIONS - VESTIBULE 110, CORRIDOR 111 AND 112a**  
SCALE: 1/8" = 1'-0"



**D VESTIBULE 163, CORRIDOR 132, 112b AND 112a**



**E CORRIDOR 112a AND 112b**

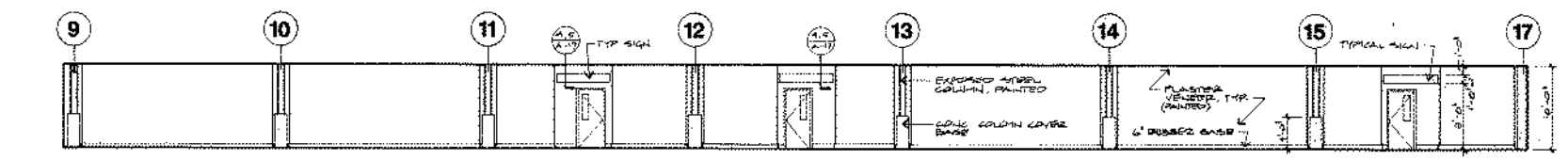


**F CORRIDOR 112b**

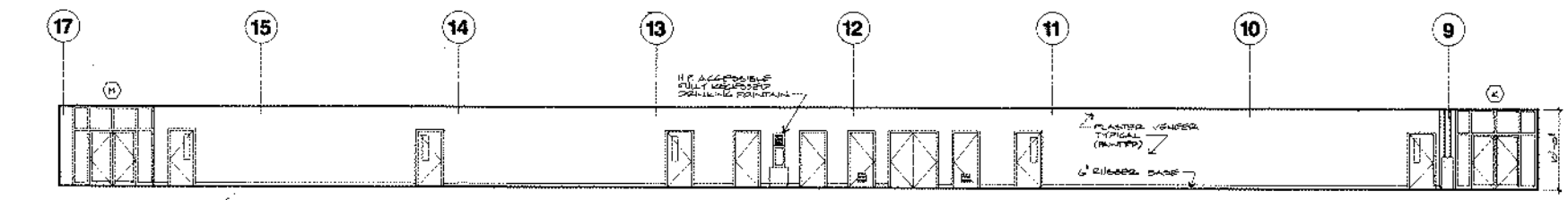
**G CORRIDOR 132 AND VESTIBULE 163**

**H CORRIDOR 162 AND VEST. 173**

**2 INTERIOR ELEVATIONS - VESTIBULE 163, CORRIDOR 112a, 112b & 132**  
SCALE: 1/8" = 1'-0"

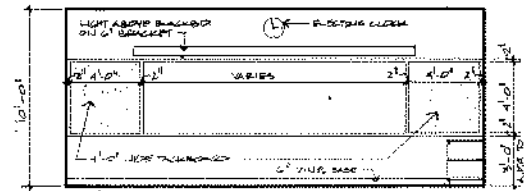


**J CORRIDOR 162**

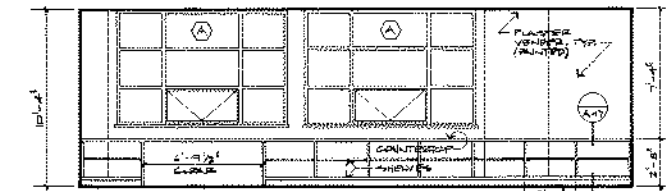


**K CORRIDOR 162**

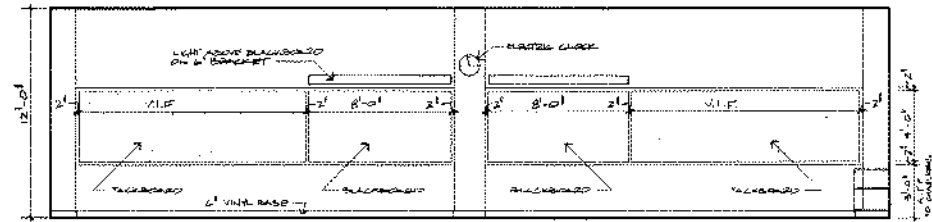
**3 INTERIOR ELEVATIONS - CORRIDOR 162 & VESTIBULE 173**  
SCALE: 1/8" = 1'-0"



**L ELEVATION AT FRONT OF ROOM**



**M ELEVATION AT WINDOW WALL**



**N ELEVATION AT DRAFTING ROOM 130**

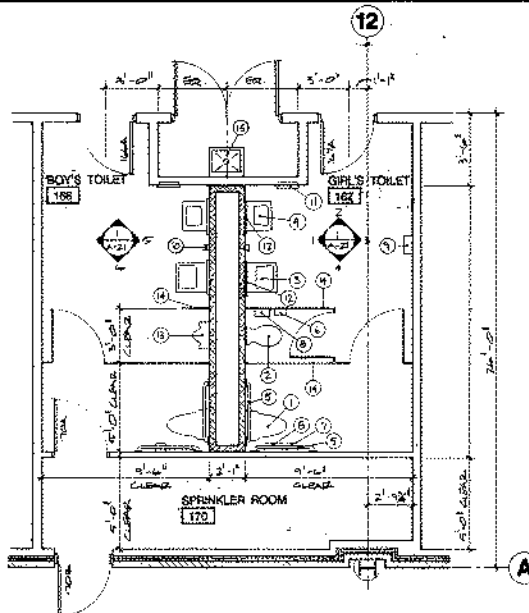
**4 TYPICAL RELATED CLASSROOM INTERIOR ELEVATIONS**  
SCALE: 1/4" = 1'-0"

**MCT Architects Inc.**  
35 Meckford Street  
Sonderville, Massachusetts 02142  
512776-8548  
Fax: 770-9678

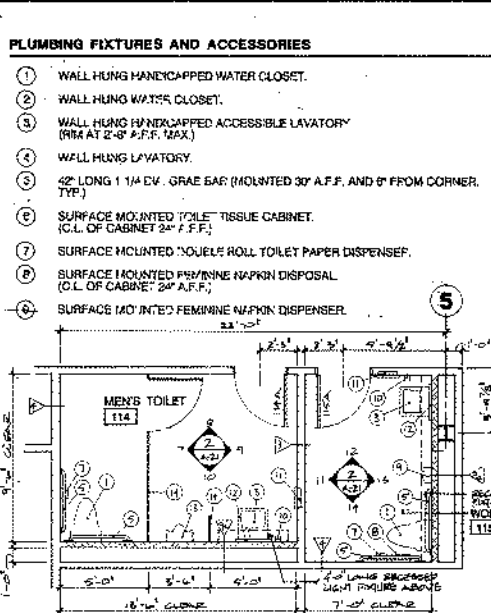
ADDITIONS AND ALTERATIONS TO THE  
**SOUTH SHORE REGIONAL VOCATIONAL  
TECHNICAL HIGH SCHOOL**  
HANOVER,  
MASSACHUSETTS

**INTERIOR ELEVATIONS**  
DRAWN: DAK  
CHECKED: VOM  
DATE: 9/15/98  
SCALE: AS NOTED

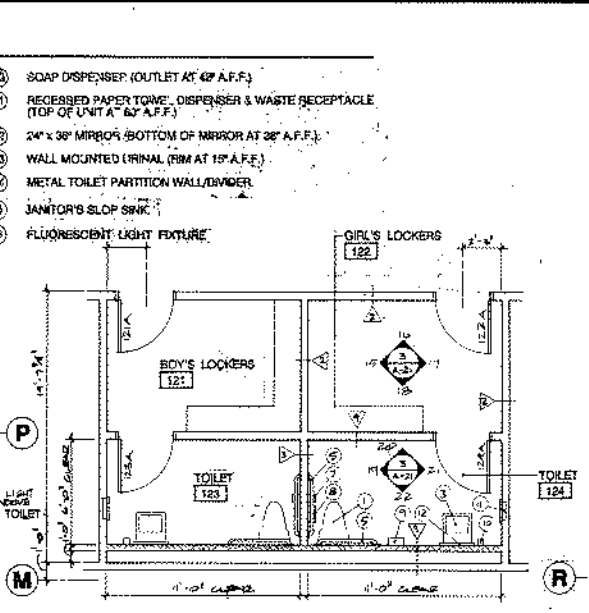
8732.00  
**A-20**



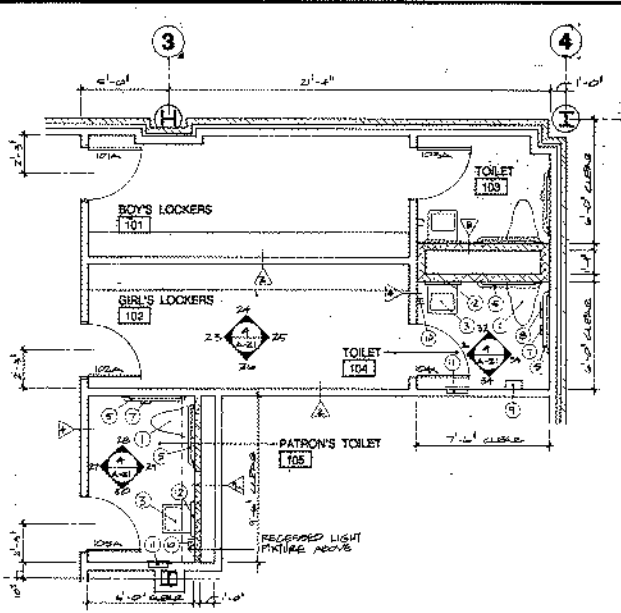
1 PUBLIC TOILET ROOMS 166 & 167  
SCALE: 1/4" = 1'-0"



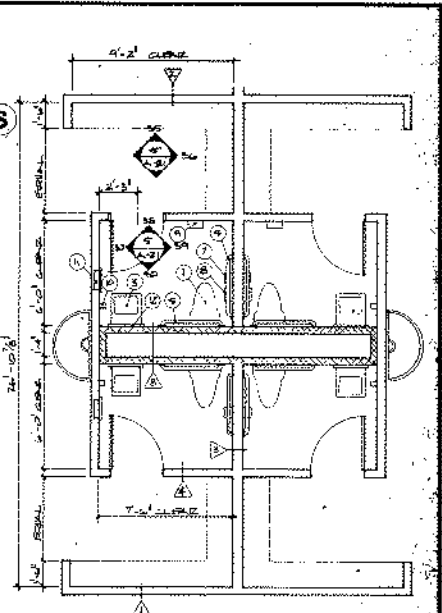
2 PUBLIC TOILET ROOMS 114 & 115  
SCALE: 1/4" = 1'-0"



3 CULINARY ARTS TOILET ROOMS  
SCALE: 1/4" = 1'-0"



4 COSMETOLOGY TOILET ROOMS  
SCALE: 1/4" = 1'-0"



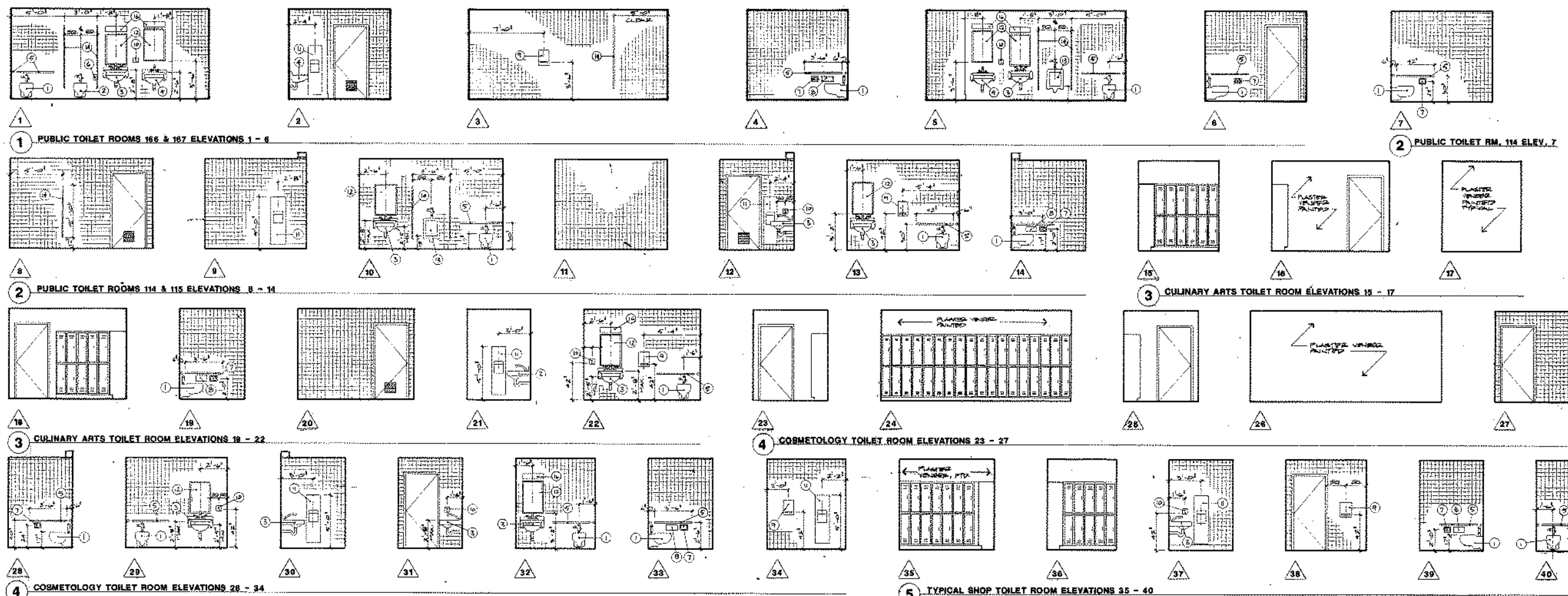
5 TYP. SHOP TOILET ROOM  
SCALE: 1/4" = 1'-0"

NOTE: ALL DIMENSIONS ARE TO FACE OF STUD. UNLESS OTHERWISE NOTED.

**PLUMBING FIXTURES AND ACCESSORIES**

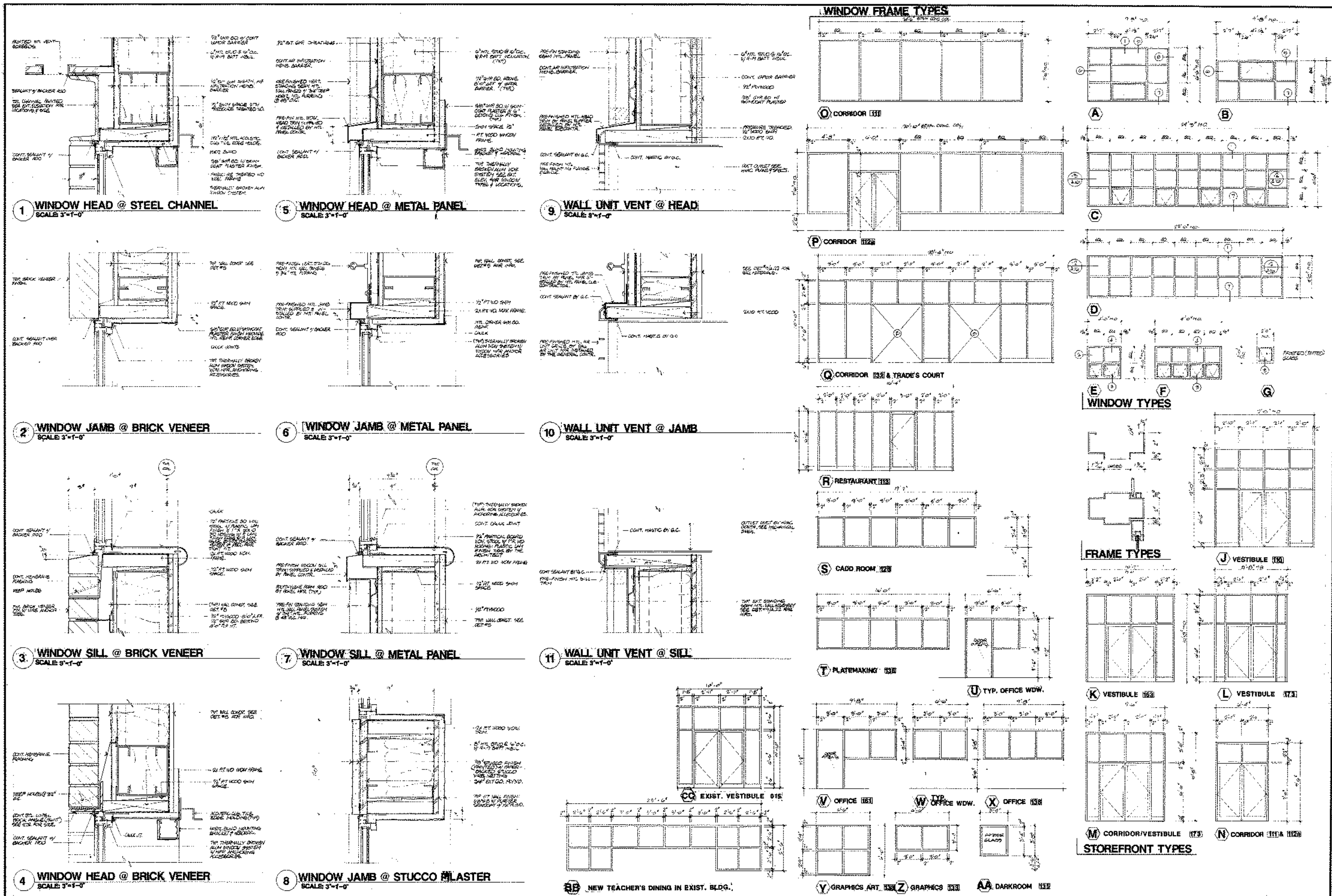
- 1 WALL HUNG HANDICAPPED WATER CLOSET.
- 2 WALL HUNG WATER CLOSET.
- 3 WALL HUNG HANDICAPPED ACCESSIBLE LAVATORY (RIM AT 2'-8" A.F.F. MAX.)
- 4 WALL HUNG LAVATORY.
- 5 42" LONG 1 1/4" DIA. GRAE BAR (MOUNTED 30" A.F.F. AND 6" FROM CORNER, TYP.)
- 6 SURFACE MOUNTED TOILET TISSUE CABINET (C.L. OF CABINET 24" A.F.F.)
- 7 SURFACE MOUNTED TOILET PAPER DISPENSER.
- 8 SURFACE MOUNTED FEMINE NAPKIN DISPOSAL (C.L. OF CABINET 24" A.F.F.)
- 9 SURFACE MOUNTED FEMINE NAPKIN DISPENSER.
- 10 SOAP DISPENSER (OUTLET AT 42" A.F.F.)
- 11 RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE (TOP OF UNIT AT 62" A.F.F.)
- 12 24" x 36" MIRROR (BOTTOM OF MIRROR AT 28" A.F.F.)
- 13 WALL MOUNTED URINAL (RIM AT 18" A.F.F.)
- 14 METAL TOILET PARTITION WALL/DIVIDER.
- 15 JANITOR'S SLOP SINK.
- 16 FLUORESCENT LIGHT FIXTURE.

**ENLARGED BATH PLANS**



**BATH ELEVATIONS**

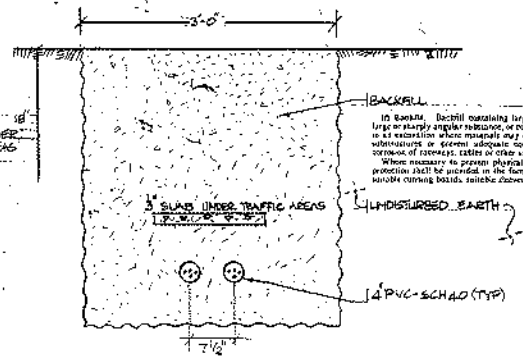






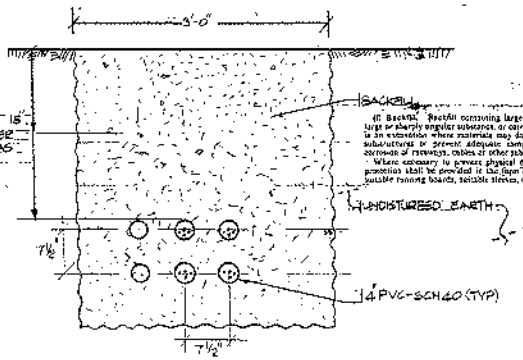






SECTION A-A DUCTBANK DETAIL  
SCALE: NTS

NOTES:  
PITCH DUCTBANK AWAY FROM ELECTRIC ROOM  
MIN. COVER: 18" UNDER BUILDING WITH 4" SLAB.  
18" UNDER PEDESTRIAN AREAS.  
24" UNDER TRAFFIC AREAS, GARAGES.

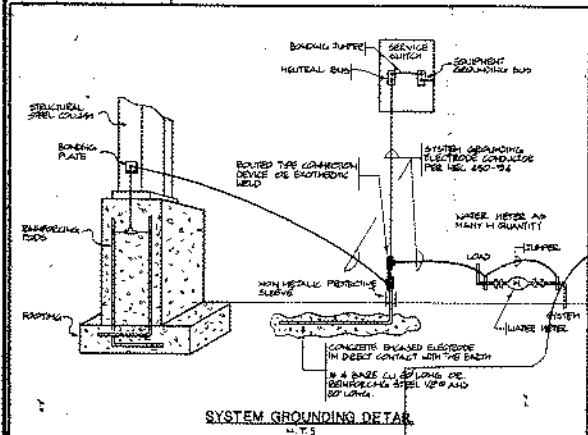


SECTION B-B DUCTBANK DETAIL  
SCALE: NTS

NOTES:  
PITCH DUCTBANK AWAY FROM ELECTRIC ROOM  
MIN. COVER: 18" UNDER BUILDING WITH 4" SLAB.  
18" UNDER PEDESTRIAN AREAS.  
24" UNDER TRAFFIC AREAS, GARAGES.

**SYMBOL LIST**

- FLUORESCENT 2 x 4 LIGHTING FIXTURE
- FLUORESCENT 2 x 2 LIGHTING FIXTURE
- INCANDESCENT LIGHTING FIXTURE
- INCANDESCENT DIRECTIONAL TYPE LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE
- FLUORESCENT STRIP LIGHTING
- WALL/CEILING MOUNT ENCLOSED FLUORESCENT LIGHTING FIXTURE
- ILLUMINATED EXIT SIGN WITH OR WITHOUT DIRECTIONAL SIGN
- EMERGENCY LIGHTING REMOTE HEAD
- TRACK LIGHTING WITH NUMBER OF FIXTURES AS SHOWN
- LIGHTING FIXTURE ON NIGHT LIGHT CIRCUIT OR EMERGENCY POWER
- POLE MOUNTED LUMINAIRE, NUMBER OF LUMINAIRES AS SHOWN
- ◆ BOLLARD TYPE LIGHT FIXTURE
- SINGLE POLE LIGHT SWITCH, 20A-120V/277V, 1 PO, 4"-0" AFF LEVITON 1221-1
- THREE-WAY LIGHT SWITCH, LEVITON 1223-1/84001
- FOUR-WAY LIGHT SWITCH, LEVITON 1224-1/83001
- DIMMER CONTROL SWITCH, 1500W, LUTRON N-1500
- DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, 6" ABOVE COUNTER LEVITON 6399
- DUPLEX RECEPTACLE, 20A-120V, 18" AFF, LEVITON 3323/24101
- DOUBLE DUPLEX RECEPTACLE
- RECEPTACLE WEATHERPROOF LEVITON 6926
- CLOCK
- WTBECOM
- SPEAKER
- DUPLEX RECEPTACLE FLOOR MOUNTED STEEL CITY 641 W/BRASS PLATE
- DUPLEX RECEPTACLE AND TELEPHONE, FLOOR MOUNTED, STEEL CITY 642 W/BRASS PLATE
- SPECIAL OUTLET, SEE SCHEDULE
- POWER AND LIGHTING PANELBOARD 200V, 540 - NQ08
- MOTOR, NUMERALS INDICATE HORSEPOWER RATING
- DISCONNECT SWITCH, FUSED, NUMERALS INDICATE FUSE/RATING
- DISCONNECT SWITCH, NON-FUSED
- DISCONNECT SWITCH, RAINPROOF
- EMERGENCY BATTERY UNIT WITH MOUNTING BRACKET AND VOLTMETER MOUNTED AT 7'-0" AFF. CHLORIDE TMF SERIES
- TIME CLOCK FORK 7202Z or 7202Z, DPST, 4DA
- MAGNETIC MOTOR STARTER WITH THERMAL OVERLOAD AND AUXILIARY CONTACTS 540 CLASS 8336
- MANUAL MOTOR STARTER WITH OVERLOAD 540 CLASS 2510 TYPE F OR M
- MANUAL MOTOR STARTER WITHOUT OVERLOAD, 540 CLASS 2516, TYPE K
- DRY TYPE TRANSFORMER, 540 CLASS 7410-7411
- FLUGMOLD OR WIREWAY
- PHOTOCELL CONTROL SWITCH, TORK 2161/2164
- TELEPHONE COMPANY RACKBOARD, 37" x 4" x 1/2" PLYWOOD, DUPLEX OUTLET
- TELEPHONE OUTLET, 18" AFF, LEVITON 10245-W (B)
- FIRE ALARM PULL STATION, 4"-0" AFF
- FIRE ALARM AUDIOWISUAL UNIT, 7'-0" AFF
- SMOKE DETECTOR, PHOTOELECTRIC TYPE, 24V
- SMOKE DETECTOR WITH AUXILIARY CONTACTS
- HEAT DETECTOR COMBINATION TYPE
- SPRINKLER SYSTEM TAMPER SWITCH, WIRING ONLY
- SPRINKLER SYSTEM FLOW SWITCH, WIRING ONLY
- FIRE ALARM REMOTE ANNUNCIATOR WITH TROUBLE BUZZER
- FIRE ALARM CONTROL PANEL



SYSTEM GROUNDING DETAIL  
SCALE: NTS

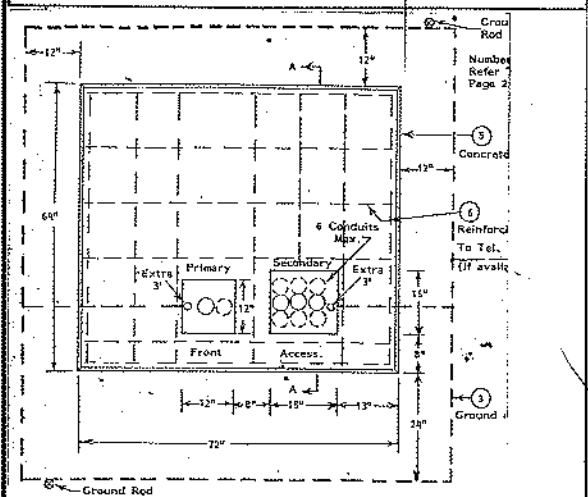


FIG. 1 - PLAN

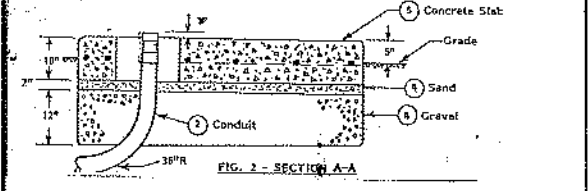
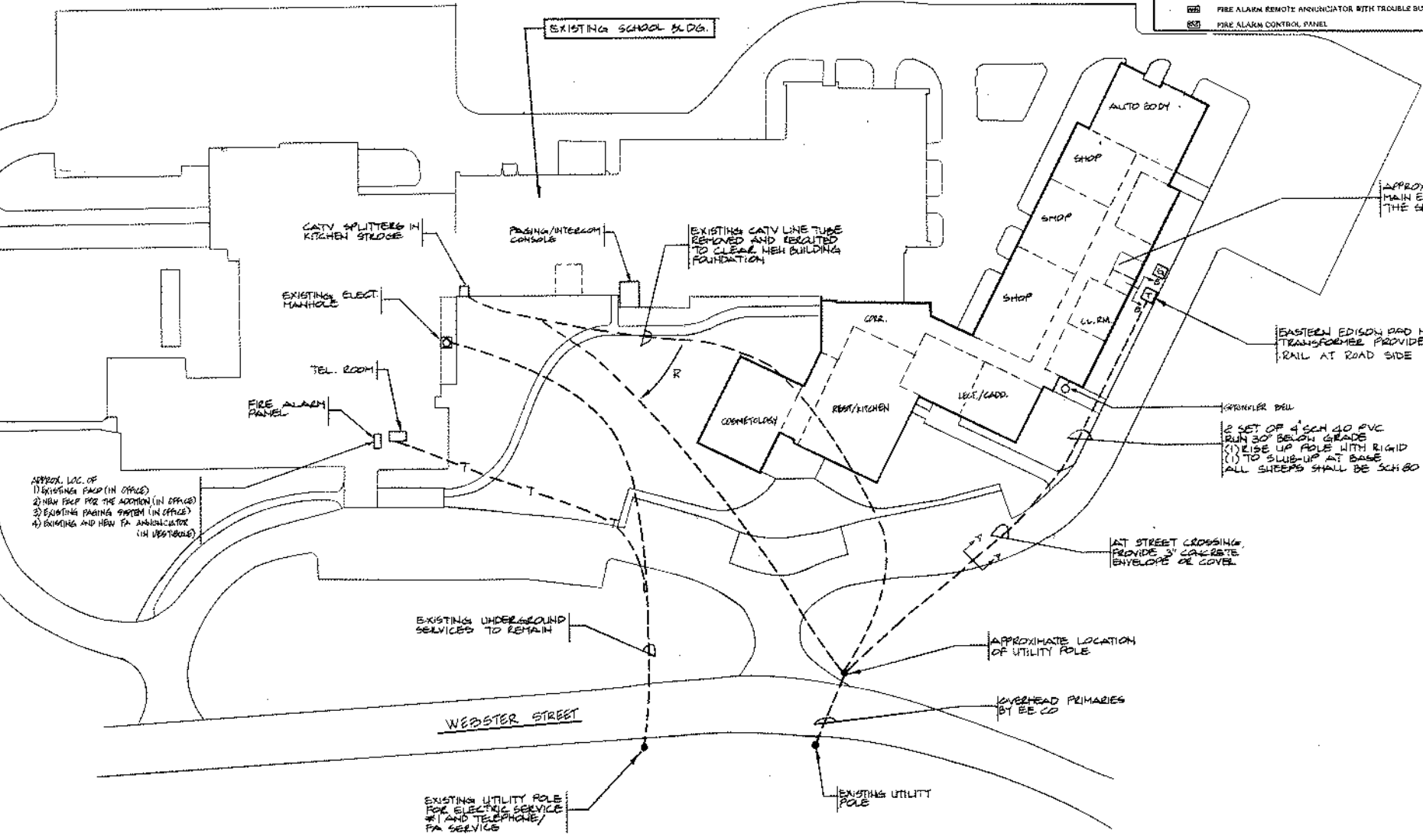
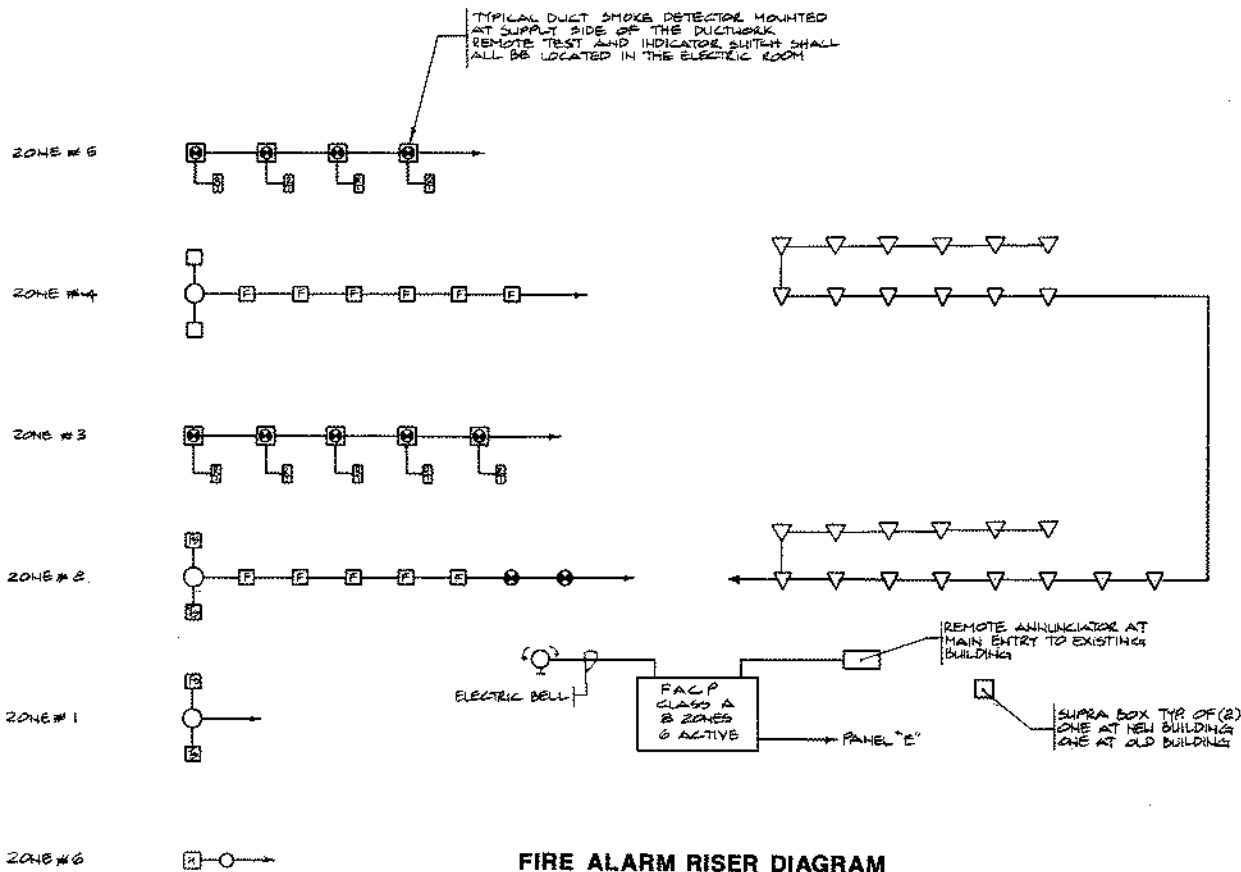


FIG. 2 - SECTION A-A

**TRANSFORMER PAD DETAIL**





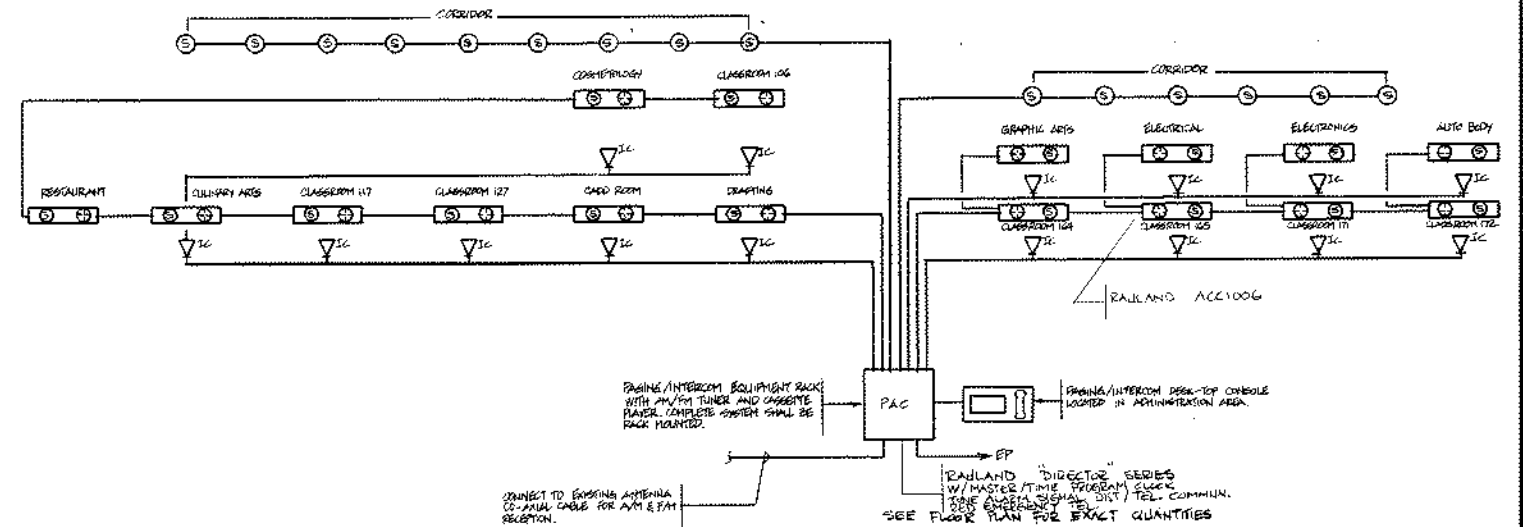
**FIRE ALARM RISER DIAGRAM**

NTS

**SPECIAL NOTES:**

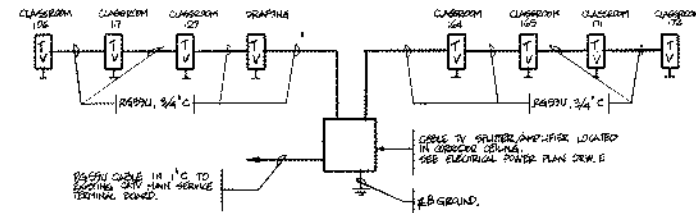
- 1- ALL WIRING SHALL BE IN EMT
- 2- ALL PULL STATIONS SHALL HAVE STOPPER II ON IT AS PER DT STOPPER (TO PREVENT FALSE ALARMS)
- 3- ALL DEVICES SHALL BE PER "ADA" SPECIFICATIONS
- 4- SEE FLOOR PLANS FOR EXACT QUANTITIES

FIRE ALARM ZONES		
ZONE	AREA	SEVED
1	SPRINKLER MAIN	
2	PULL STATIONS RIGHT WING	
3	DUCT SMOKE RIGHT WING	
4	PULL STATIONS LEFT WING	
5	DUCT SMOKE LEFT WING	
6	KITCHEN HOOD	
7-8	SPACE	



**COMMUNICATIONS/CLOCK SYSTEM RISER DIAGRAM**

NTS

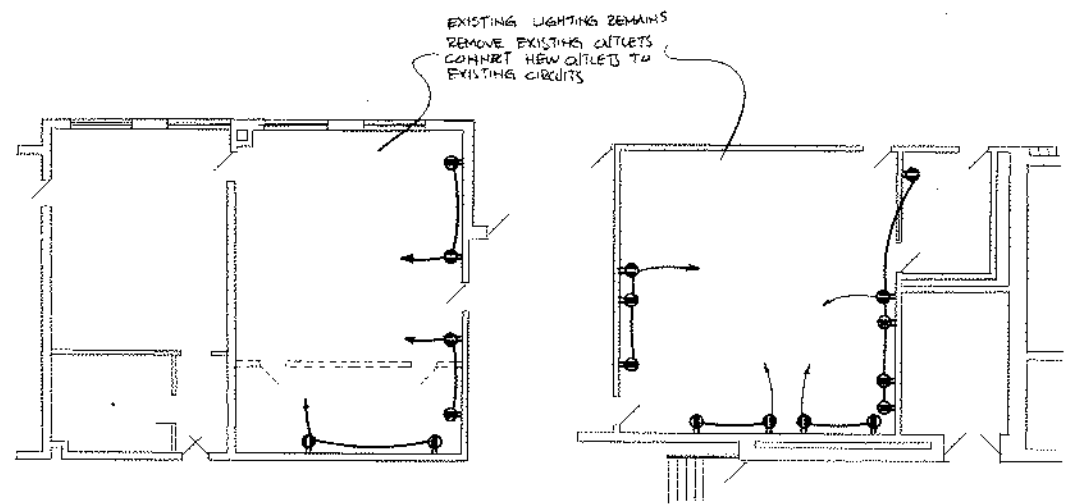


**CABLE TV WIRING DIAGRAM**

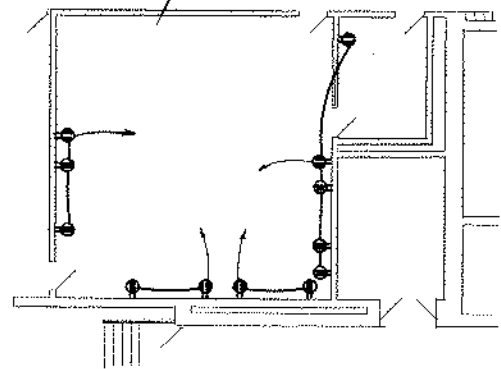
NTS

SEE FLOOR PLANS FOR EXACT QUANTITIES

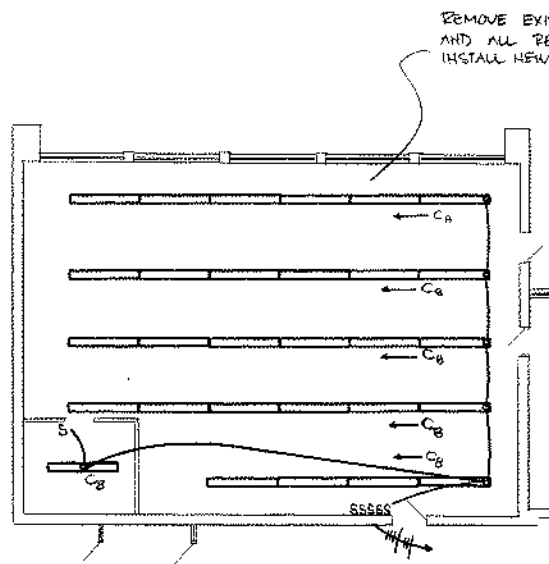




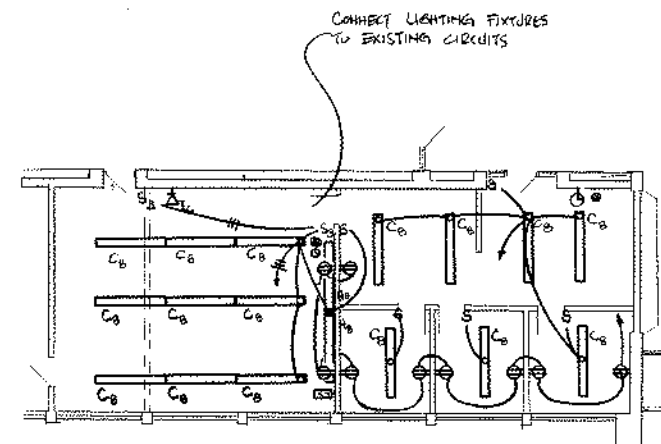
PLAN AT SCIENCE AND SPED CLASSROOMS



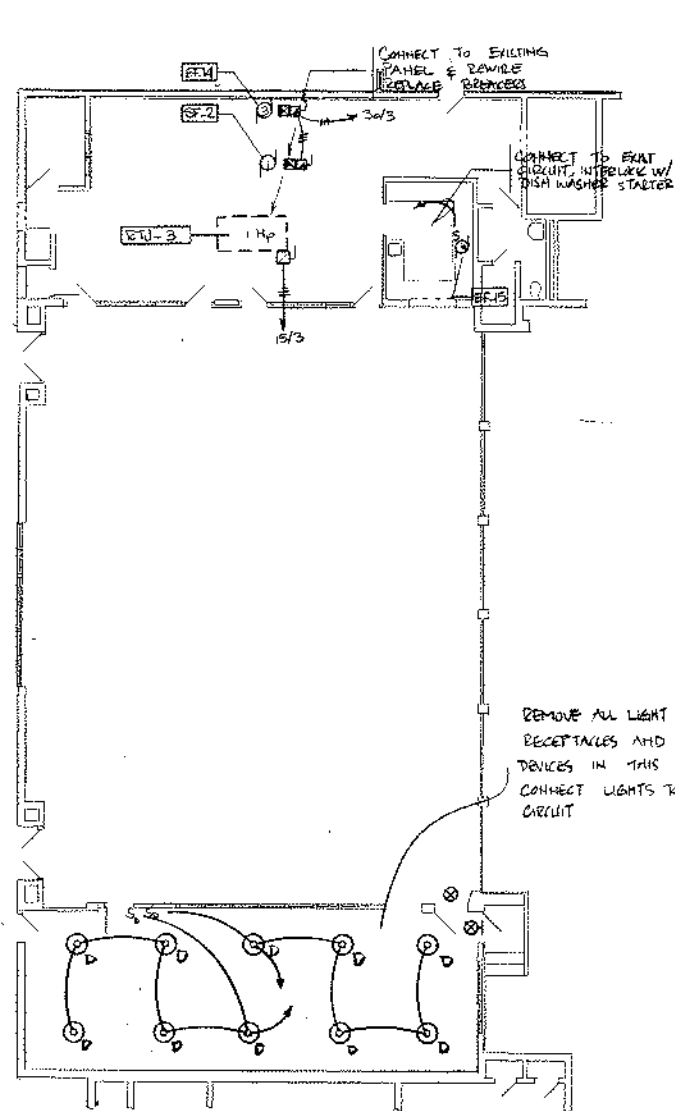
PLAN AT SCIENCE LABORATORY 010



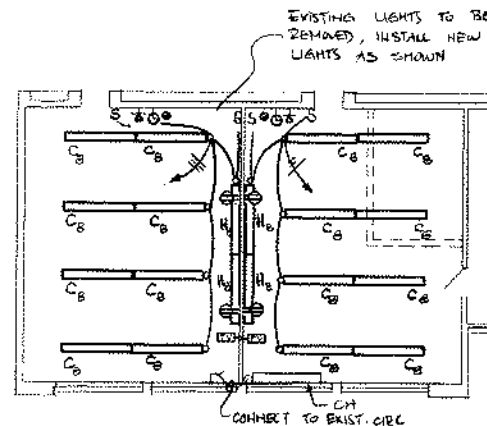
PLAN AT LIBRARY 001



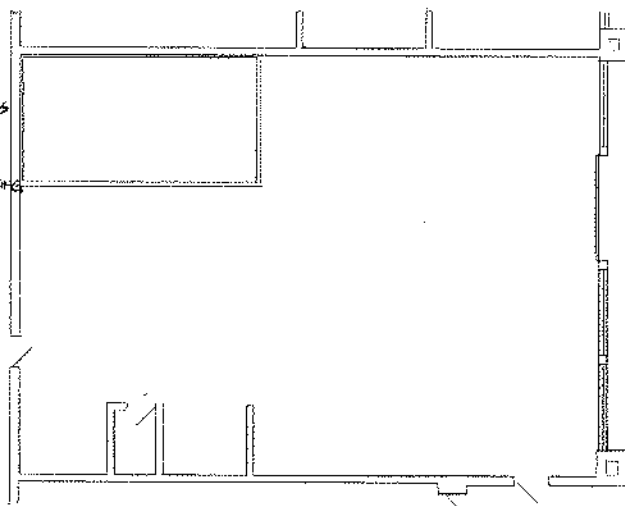
PLAN AT CLASSROOM 003 AND GUIDANCE 004



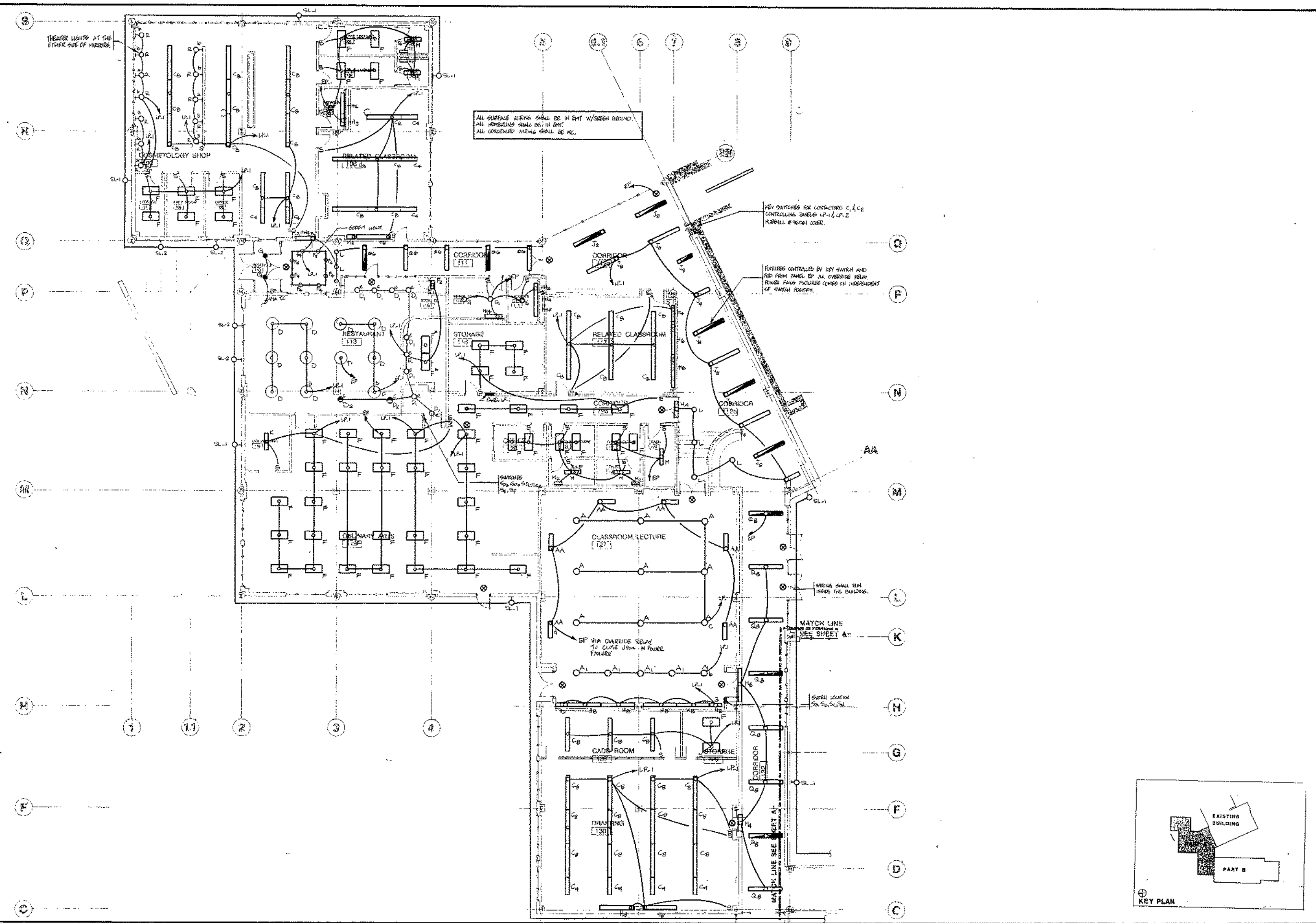
PLAN AT CAFETERIA, KITCHEN AND TEACHER DINING



PLAN AT CLASSROOMS 011 AND 012



PLAN AT NEW MARINE TECH. SHOP



ALL SURFACE WIRING SHALL BE IN BMT W/SHEEN BRAND.  
 ALL CONCEALED WIRING SHALL BE IN BMT.  
 ALL CONCEALED WIRING SHALL BE N.C.

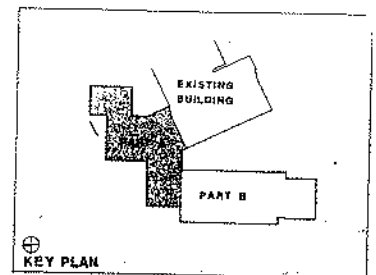
KEY SWITCHES FOR CONDENSING C, A, C2  
 CONTROLLING PANELS LP-1 & LP-2  
 HURPELL # 10001 COVER.

FIXTURES CONTROLLED BY KEY SWITCH AND  
 FED FROM PANEL EP. IN OUTSIDE ROOM.  
 POWER FANG PACKAGES COMED ON INDEPENDENT  
 OF SWITCH POSITION.

WIRING SHALL REMAIN  
 INSIDE THE BUILDING.

MATCH LINE  
 SEE SHEET A

SWITCH LOCATION  
 EP, EP, SC, SC



KEY PLAN

ZADE COMPANY INC.  
 CONSULTING ENGINEERS  
 140 BEACH STREET BOSTON, MA 02111  
 TEL. 617-536-4400



HKT Architects Inc.  
 50 Medford Street  
 Scituate, Massachusetts 02557  
 517-776-6500  
 Fax: 776-6675

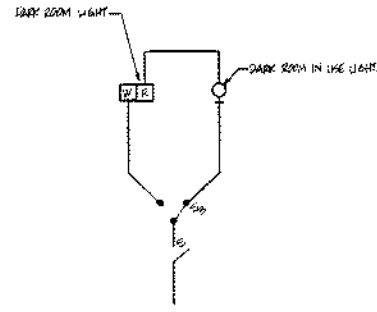
ADDITIONS AND ALTERATIONS TO THE  
 SOUTH SHORE REGIONAL VOCATIONAL  
 TECHNICAL HIGH SCHOOL  
 HANOVER, MASSACHUSETTS

LIGHTING FLOOR PLAN-PART "A"

DRAWN: HJ  
 CHECKED: MR

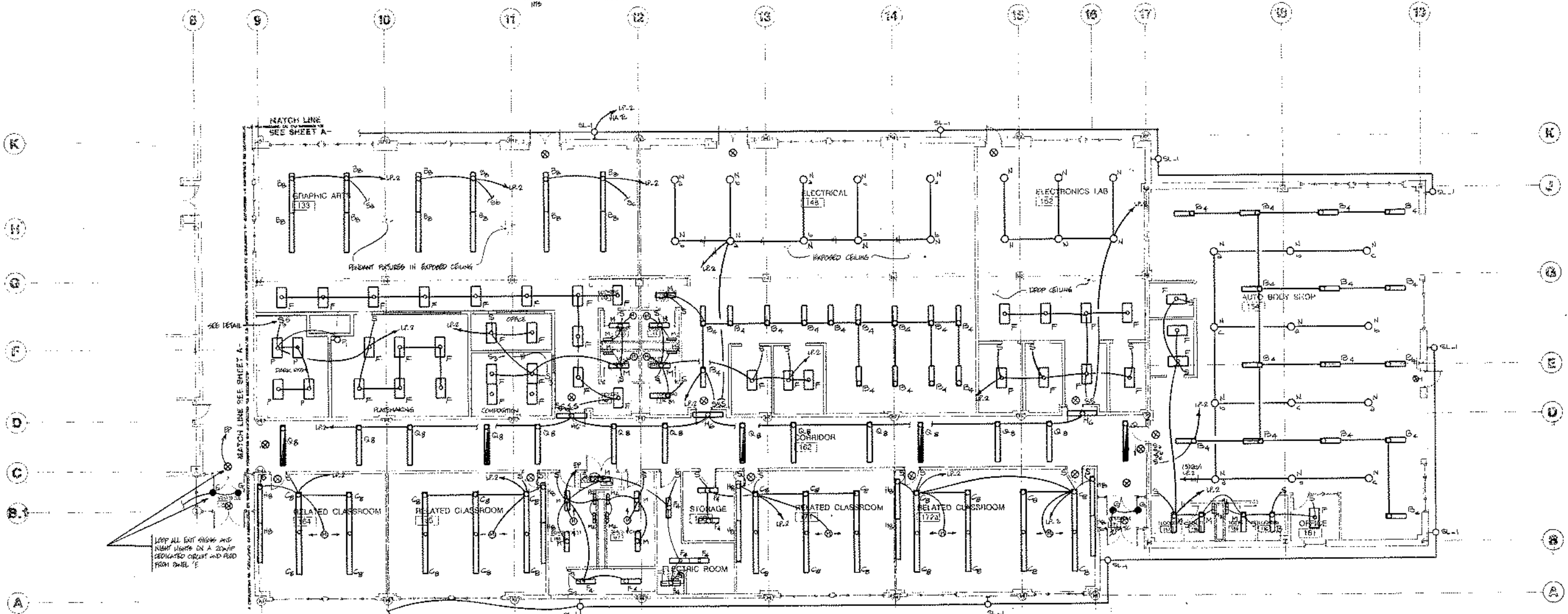
DATE: 9/15/92  
 SCALE: 1/8" = 1'-0"

E-2

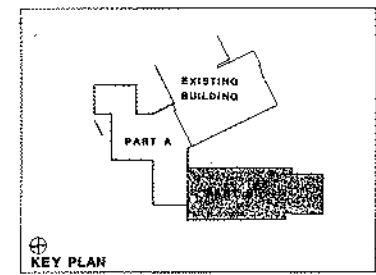


ALL SURFACE WIRING SHALL BE IN ENT W/ GREEN GROUND  
 ALL POWERING SHALL BE IN ENT  
 ALL CONNECTED WIRING SHALL BE MC.

DARK ROOM SWITCHING DETAIL  
 1115



LOOP ALL EXIT SIGNS AND  
 NIGHT LIGHTS ON A 20AMP  
 DEDICATED CIRCUIT AND FEED  
 FROM PANEL 'E'



**ZADE COMPANY INC.**  
 CONSULTING ENGINEERS  
 140 BEALY STREET, BOSTON, MA 02111  
 TEL: (617) 538-4400

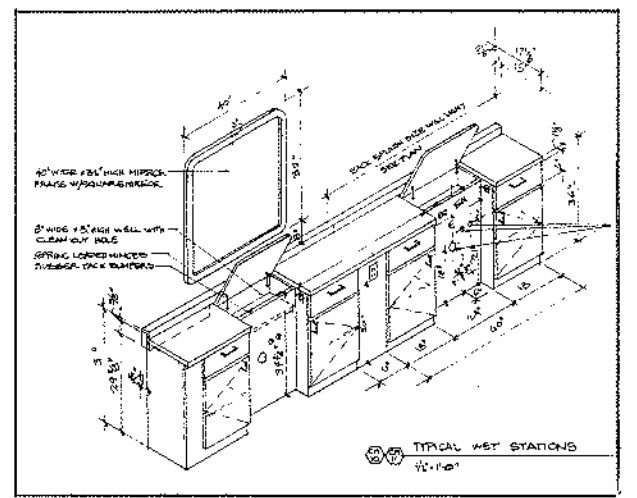
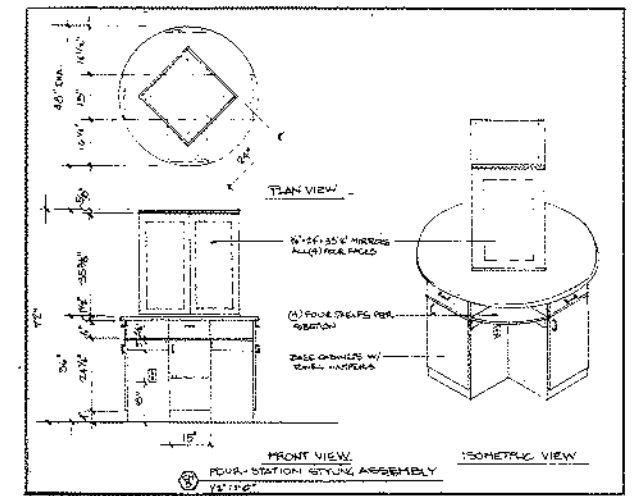
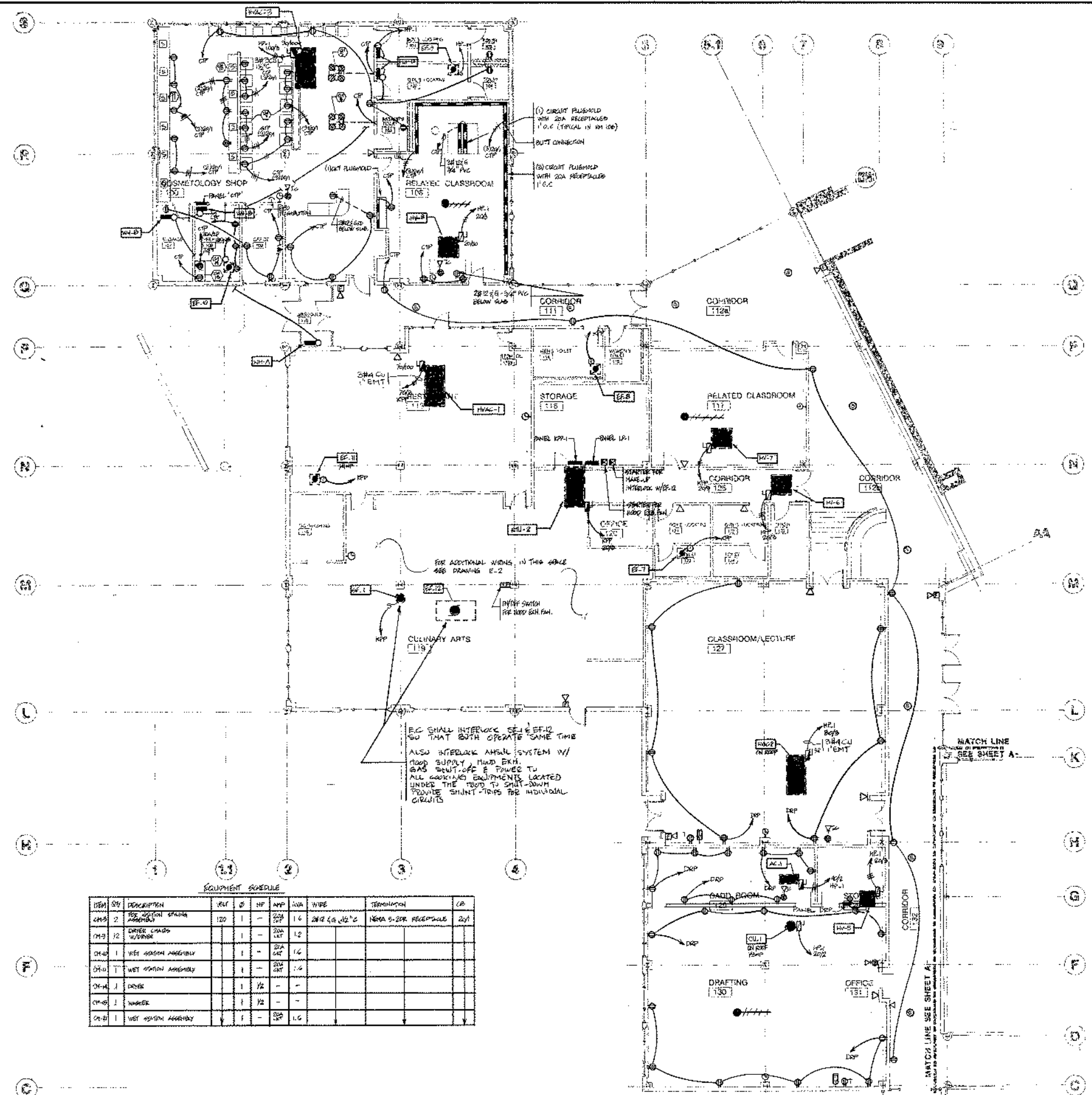
**PKT Associates Inc.**  
 35 MORTON ST.  
 SOMERVILLE, MASSACHUSETTS 02145  
 617-776-6541  
 FAX: 617-879-8177

ADDITIONS AND ALTERATIONS TO THE  
**SOUTH SHORE REGIONAL VOCATIONAL  
 TECHNICAL HIGH SCHOOL**  
 HANOVER, MASSACHUSETTS

**LIGHTING FLOOR PLAN -PART "B"**  
 DRAWN: FRM DATE: 9/15/92  
 CHECKED: TM SCALE: 1/8" = 1'-0"

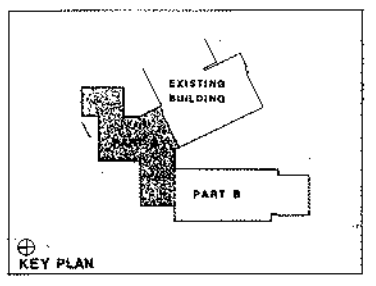
**E-3**





**EQUIPMENT SCHEDULE**

ITEM	QTY	DESCRIPTION	WLT	Ø	HP	AMP	VOLTA	WIRE	TERMINATION	LB
CH-2	2	TOP STATION STYLING ASSEMBLY	120	1	-	20A	110	2#12 4# 1/2"Ø	NEKA 5-20R RECEPTACLE	241
CH-3	12	DRYER CHAIRS W/DRINK		1	-	20A	110	2#12 4# 1/2"Ø		
CH-4	1	WET STATION ASSEMBLY		1	-	20A	110	2#12 4# 1/2"Ø		
CH-5	1	WET STATION ASSEMBLY		1	-	20A	110	2#12 4# 1/2"Ø		
CH-6	1	DRYER		1	1/2	-	-	-		
CH-7	1	DRYER		1	1/2	-	-	-		
CH-8	1	WET STATION ASSEMBLY		1	-	20A	110	2#12 4# 1/2"Ø		



**ZADE COMPANY INC.**  
CONSULTING ENGINEERS  
140 BEACH STREET, BOSTON, MA 02111  
TEL: 617-552-4551



**HKT Architects Inc.**  
35 Market Street  
Somerville, Massachusetts 02143  
617-778-6546  
Fax: 778-6678

**ADDITIONS AND ALTERATIONS TO THE  
SOUTH SHORE REGIONAL VOCATIONAL  
TECHNICAL HIGH SCHOOL**  
HANOVER, MASSACHUSETTS

**POWER FLOOR PLAN -PART "A"**

DRAWN: FPL  
CHECKED: JHM

DATE: 9/15/92  
SCALE: 1/8" = 1'-0"

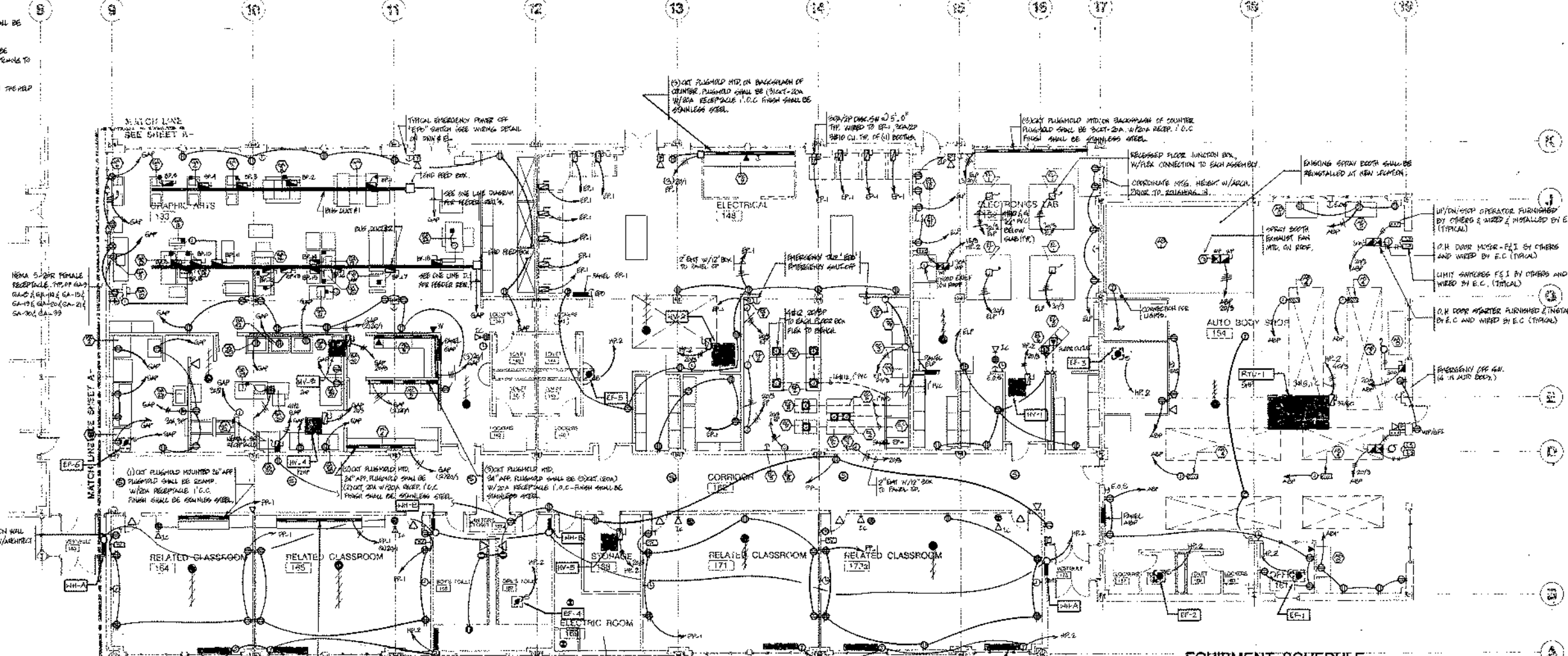
**E-4**



EQUIPMENT SCHEDULE

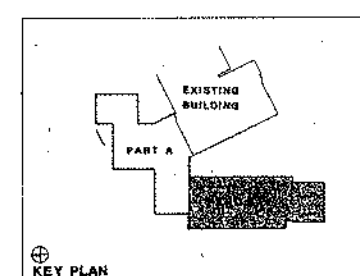
ITEM	QTY	DESCRIPTION	VOLT	#	HP	AMP	KVA	WIRE SIZE	TERMINATION	CB	ITEM	QTY	DESCRIPTION	VOLT	#	HP	AMP	KVA	WIRE SIZE	TERMINATION	CB	ITEM	QTY	DESCRIPTION	VOLT	#	HP	AMP	KVA	WIRE SIZE	TERMINATION	CB	
GA-1	1	OFFSET PRESS	208	3	5	8.3	-	#12 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	GA-1	1	MIXER UNIT	120	1	-	20A	1.6	#12 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	GA-2	2	LIGHT TABLE	120	1	-	20A	1.6	#12 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	
GA-2	1	OFFSET PRESS	208	3	2.7	7.5	-	#12 @ 20' AMP	BP-2 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	GA-2	1	DRIVING UNIT	1	1	-	-	-	-	-	-	-	GA-3	1	LIGHT TABLE	120	1	-	20A	1.6	#12 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-
GA-3	1	OFFSET PRESS	120	1	3.4	13.8	-	#12 @ 20' AMP	BP-3 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	GA-2	1	COPYER W/STAND	120	1	-	20A	1.6	#12 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	-	-	-	-	-	-	-	-	-	-	-	
GA-4	1	OFFSET PRESS	120	1	3.4	13.8	-	#12 @ 20' AMP	BP-4 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	GA-2	1	AUTOMATIC PLATEMAKER	208	3	-	20	-	#10 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	-	-	-	-	-	-	-	-	-	-		
GA-5	1	OFFSET PRESS	120	1	3.4	13.8	-	#12 @ 20' AMP	BP-5 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	GA-2	1	PAPER CUTTER	208	3	-	20	-	#10 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	-	-	-	-	-	-	-	-	-	-	-	
GA-6	1	OFFSET PRESS	120	1	3.4	13.8	-	#12 @ 20' AMP	BP-6 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	GA-2	1	PLATEMAKER	208	3	-	17.5	-	#10 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	MC-4	1	FULL HEIGHT STORAGE ASSEMBLY	120	1	-	220V	1.2	#12 @ 20' AMP	(2) W/OUT FLUSHMOUNT	(2) 20A	
GA-9	1	COLLATING MACHINE	120	1	-	22.0	1.6	#12 @ 20' AMP	RECEPTACLE 5-20R	-	GA-30	1	PLATE PROCESSOR - 36"	120	1	-	12.0	-	#12 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	MC-5	1	COUNTER ASSEMBLY	120	1	-	220V	2.2	#12 @ 20' AMP	(2) W/OUT FLUSHMOUNT	(2) 20A	
GA-10	1	WIRE STITCHER	120	1	1/2	-	-	#12 @ 20' AMP	BP-8 FUSE @ 20 AMPS	-	MC-30	1	HORIZONTAL CAMERA	208	1	-	30A	-	#12 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	MC-6	1	COUNTER ASSEMBLY	120	1	-	220V	2.6	#12 @ 20' AMP	(2) W/OUT FLUSHMOUNT	(2) 20A	
GA-13	1	TRICHER	120	1	-	22.0	1.6	#12 @ 20' AMP	BP-9 FUSE @ 20 AMPS	-	GA-31	1	PLATE-UP MAYER	120	1	-	20A	1.6	#12 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	-	-	-	-	-	-	-	-	-	-	-	-
GA-14	1	TABLE TOP FOLDER	120	1	-	2.5	-	-	BP-10 FUSE @ 20 AMPS	-	GA-32	1	PLATE-MAKER	208	1	-	30.0	-	#12 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	-	-	-	-	-	-	-	-	-	-	-	
GA-15	1	PAPER HOLL	120	1	1/3	2.75	-	-	BP-11 FUSE @ 20 AMPS	-	GA-33	1	UTILITY TABLE	120	1	-	20A	-	#12 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	-	-	-	-	-	-	-	-	-	-	-	
GA-16	1	AUTOMATIC FOLDER	208	3	-	8.4	-	#12 @ 20' AMP	BP-12 FUSE @ 20 AMPS	-	GA-34	1	LIGHT TABLE	120	1	-	25	-	#12 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	-	-	-	-	-	-	-	-	-	-	-	
		LIGHT TABLE	120	3	-	8.4	-	-	BP-13 FUSE @ 20 AMPS	-	GA-35	1	LIGHT TABLE	120	1	-	20A	-	#12 @ 20' AMP	BP-1 (30A, 2P, BUSHING) FUSE @ 20 AMPS	-	-	-	-	-	-	-	-	-	-	-	-	

- #1 ALL WIRING FROM WALL (UP) TO THE EQUIPMENT SHALL BE VIA LIQUID-TITE FLEX.
- #2 ALL 60 AMP TYPE CONNECTIONS FROM BUS PLEAS WILL BE PROVIDED WITH LOCKING TYPE PINS AND RECEPTABLE HAVING TO REQUIREMENTS OF EACH EQUIPMENT.
- #3 ALL 60 AMP CORDS WILL BE ATTACHED TO BUS PLEAS WITH THE HELP OF STRESS RELIEFS.



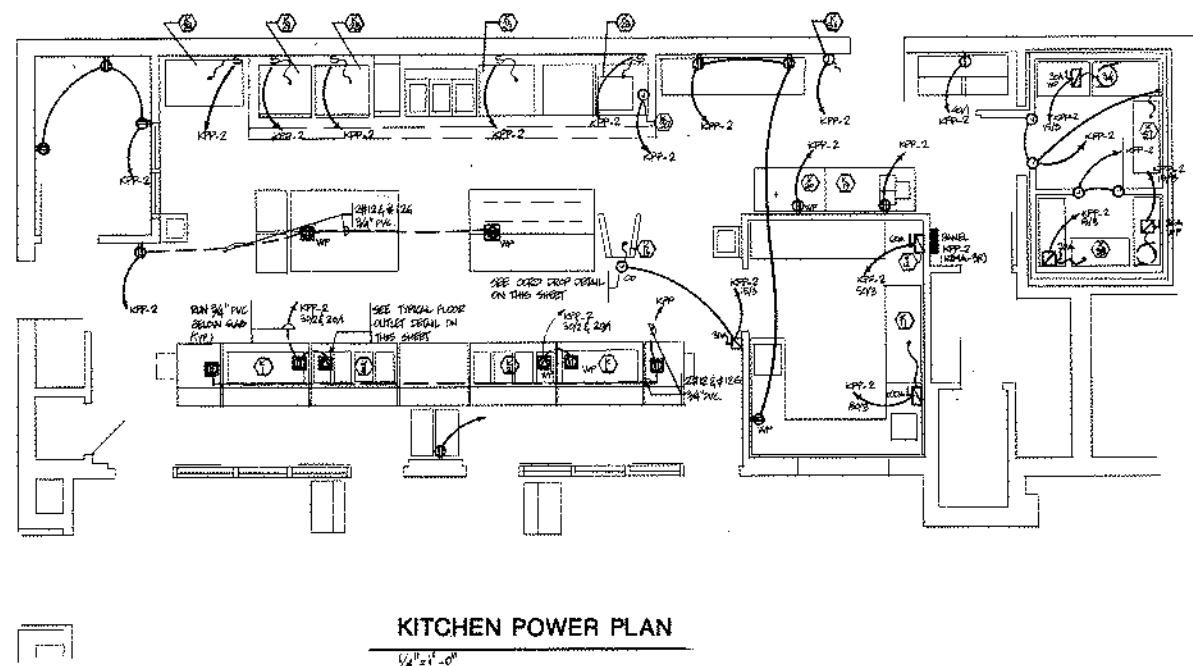
EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	VOLT	#	HP	AMP	KVA	WIRE SIZE	TERMINATION	CB
EL-1	4	PAIR SECTION W/RECEPT	120/208	3	-	30A	1.6	#12 @ 20' AMP	RECEPTACLE 5-20R AT W/RECEPTABLE	20A
EL-10	1	DRILL PRESS	120	1	3/4	13.8	-	#12 @ 20' AMP	NEMA 5-20R RECEPTACLE	20A
EL-11	1	BENCH GRINDER	120	1	1/2	3.8	-	#12 @ 20' AMP	NEMA 5-20R RECEPTACLE	20A
AB-1	1	AUTOMATIC OPEN DOOR	208	3	2	11.0	-	#12 @ 20' AMP	DISCONNECT SWITCH	20A
AD-2	1	FWD-PROP. AUTO. LIFT	120	1	-	20A	-	#12 @ 20' AMP	J. BOX & FLEX TO EQUIPMENT	20A
AB-4	4	OVERHEAD REEL ASSEMB.	120	1	-	1.6	-	#12 @ 20' AMP	J. BOX & FLEX TO UNIT	20A

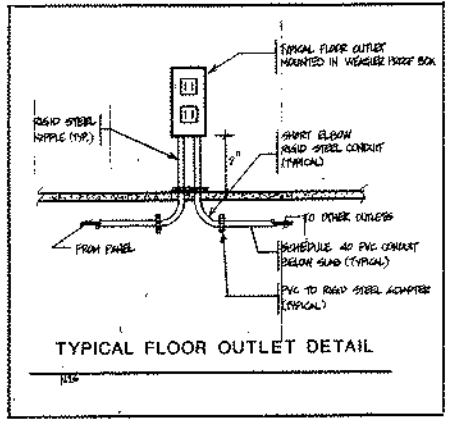
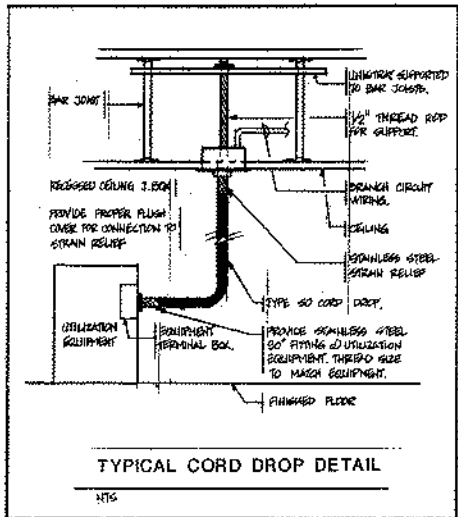




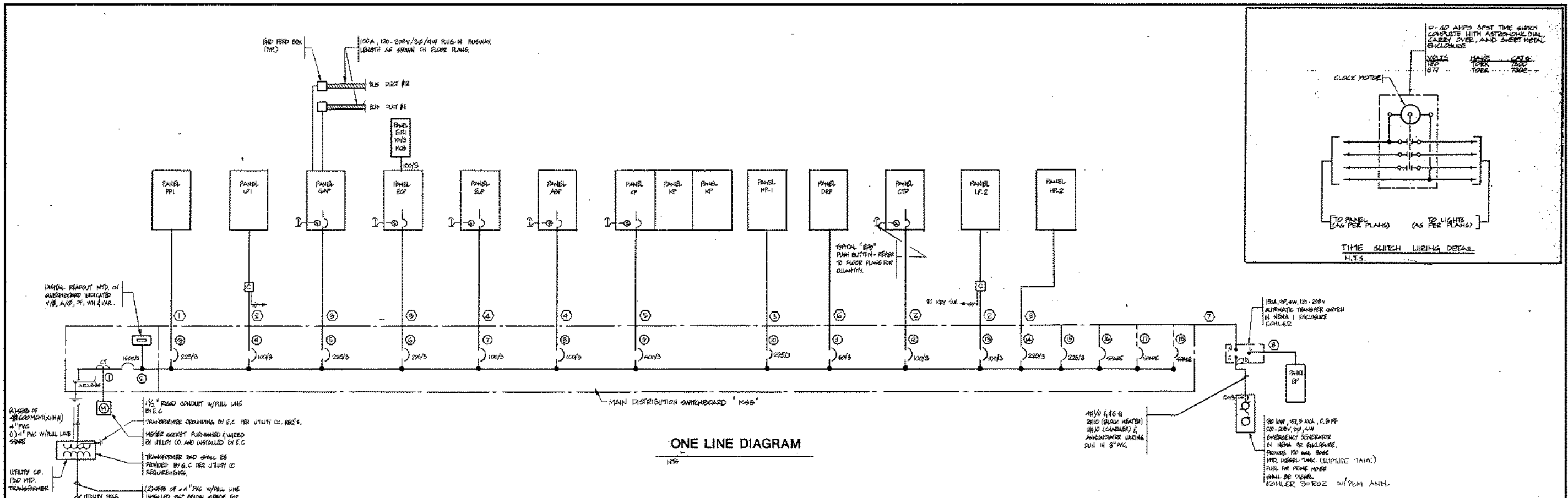
EQUIPMENT SCHEDULE												
ITEM	QTY	DESCRIPTION	VOL	Ø	HP	AVA	AMP	WIRE SIZE	TERMINATION	CD	REMARKS	1/16" HEIGHT
K-1	2	COLD FOOD SERVICE COUNTER	120	1	1/8	0.9	-	2#12 & #12G	NEMA 5-20R RECEPTACLE	201	EQUIPMENT FURNISHED W/WEAR PLUG	FLOOR HTD.
K-2	1	HOT FOOD SERVICE COUNTER	120	1	-	3.4	-	2#10 & #12G	NEMA 5-20R RECEPTACLE	201	-	FLOOR HTD.
K-7	1	MILK CABINET	120	1	1/8	0.6	-	2#12 & #12G	NEMA 5-20R RECEPTACLE	201	-	18" AFF
K-11	1	DISHWASHER	208	3	3/4	22.5	1.0	2#12 & #12G	100A/3P/240V DISCONNECT & SW	201	PROVIDE CONNECTIONS TO ELECT. PANEL & MOTORS	60" AFF
K-12	1	HOT WATER DISPENSER	208	3	-	12.0	1.0	2#12 & #12G	100A/3P/240V DISCONNECT & SW	201	-	60" AFF
K-16	1	MIXER - 60 QUART	208	3	1/2	2.2	-	2#12 & #12G	30A/1P/240V DISCONNECT & SW	150	PROVIDE 5/16" CORD DROP @ 40"	60" AFF
K-19	1	AUTOMATIC SLICER	120	1	1/2	1.2	-	2#12 & #12G	NEMA 5-20R RECEPTACLE	201	-	48" AFF
K-20	2	FOOD CUTTER	120	1	1/2	1.2	-	2#12 & #12G	NEMA 5-20R RECEPTACLE	201	-	48" AFF
K-21	1	ICE CREAM FREEZER CABINET	120	1	1/2	2.4	-	2#12 & #12G	PROVIDE RECEPTACLE TO MATCH EQUIPMENT	201	-	18" AFF
K-23	1	TAW CONDIMENT FREEZER	120	1	-	0.7	4.0	2#12 & #12G	20A/1P/120V TONGUE SWITCH & SW	201	-	48" AFF
K-28	1	PANABLE CONNECTION OVER	120	1	1/2	1.4	-	-	-	201	-	48" AFF
K-29	1	PANABLE CONNECTION OVER	120	1	1/2	1.4	-	-	-	201	-	48" AFF
K-30	1	SMART HOOD ASSEMBLY	120	1	-	1.6	-	-	1 BOX & PLUG TO UNIT	201	COORDINATE HOODING HEIGHT WITH EQUIPMENT. MAKE PIPES TO MATCH. OUTSLACK WITH FAN AND FIRE ALARM SYSTEM.	-
K-31	1	FIRE PROTECTION SYSTEM	120	1	-	0.2	-	-	DIRECT CONNECT TO CONTROL PANEL	201	-	30" AFF
K-32	1	REACH-IN REFRIGERATOR	120	1	1/8	1.2	9.3	-	20A/1P/120V TONGUE SWITCH & SW	201	-	48" AFF
K-37	1	WALK-IN COOLER L78 & P.H.	120	1	-	2.5	-	-	1 BOX & PLUG	201	-	AS REQ'D
	1	PUMP OIL	120	1	1/2	1.3	-	-	20A/1P/120V TONGUE SWITCH & SW	201	-	AS REQ'D
	1	CONDENSING UNIT	208	3	3/4	1.2	-	2#12 & #12G	30A/1P/240V DISCONNECT & SW	150	PLUG PER EQUIP. HFR REQ'S	ROOF
K-38	1	WALK-IN FREEZER L78 & P.H.	120	1	-	2.6	-	2#12 & #12G	1 BOX & PLUG	201	-	AS REQ'D
	1	PUMP OIL	208	3	3/4	1.6	-	2#12 & #12G	30A/1P/240V DISCONNECT & SW	150	-	AS REQ'D
	1	CONDENSING UNIT	208	3	1/2	2.2	-	2#12 & #12G	30A/1P/240V DISCONNECT & SW	150	PLUG PER EQUIP. HFR REQ'S	ROOF



- NOTES
- ALL DISCONNECT SWITCHES, BREAKERS, HP RATED SWITCHES LOCATED IN THE KITCHEN WILL HAVE NEMA TYPE 4X STAINLESS STEEL ENCLOSURES.
  - ALL HOMERUNS SHALL BE IN EMT W/GREEN GROUND WIRES IN STUD WALLS SHALL BE MC UNDERGROUND CONDUITS SHALL BE PVC SCH 40. FINAL CONNECTION FROM WALL J BOX TO KITCHEN EQUIPMENT SHALL BE WITH LIQUID-TITE PLEX.
  - EXACT AND FINAL LOCATION OF ALL KITCHEN EQUIPMENT SHALL BE COORDINATED WITH THE LATEST KITCHEN EQUIPMENT SUPPLIER DRAWINGS FROM THE ARCHITECT PRIOR TO ANY BRUSHING-IN.
  - ANY RELOCATION OF ANY EQUIPMENT WITHIN 15'-0" IN RADIUS OF ORIGINAL LOCATION, PRIOR TO BRUSHING-IN, IF REQUESTED BY THE ARCHITECT SHALL BE EXECUTED BY E.C. AT NO ADDITIONAL COST.
  - ALL BRUSHING-IN HEIGHTS SHALL BE COORDINATED WITH KITCHEN EQUIPMENT SUPPLIER.
  - ALL RECEPTACLES AND LIGHT SWITCHES LOCATED IN KITCHEN SHALL HAVE SMOOTH STAINLESS STEEL FACE PLATES.







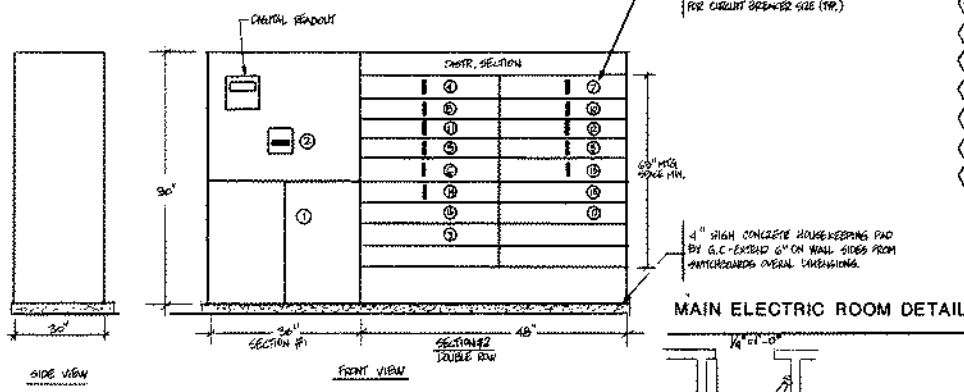
**ONE LINE DIAGRAM**

**FEEDER SCHEDULE**

- ① 4#4/0 4#4-2 1/2" EMT
- ② 4#3 4#4-2 1/4" EMT
- ③ 4#4/0 4#4-2 5" PVC RUN BELOW SLAB
- ④ 4#3 4#4-2 2" PVC RUN BELOW SLAB
- ⑤ 4#500 MCM 4#3 4-4" PVC RUN BELOW SLAB
- ⑥ 4#6 4#4-2 1 1/2" PVC RUN BELOW SLAB
- ⑦ 4#1/0 4#4-2 9" PVC RUN BELOW SLAB
- ⑧ 4#1/0 4#4-2 2" EMT
- ⑨ #3/0 GROUND-1" EMT TO MAIN WATER SUPPLY (SERVICE GROUND)

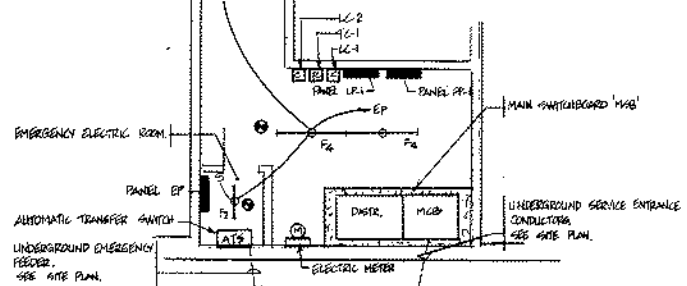
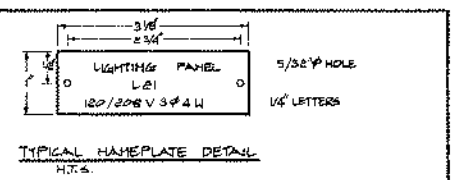
**PANEL SCHEDULE**

ITEM	WLT/PAGE WIRE	MLO	MCS	EAC	ORC	MD	BRK	BRANCH DEVICES	SPR-STAGE
PANEL PE-1	2ØØ/Ø/A		225	10	42	S	B	(1)2ØØ	
LP-1			100		42			(2)2ØØ	
EAP			225		60			(1)1ØØ/3, (1)3Ø/3, (2)2Ø/3, (1)4Ø/2, (1)5Ø/2 (1)1ØØ/2	
ELP			225		42			(1)1ØØ/3, (1)3Ø/3	
ELP			100		42			(1)1ØØ/3, (1)2ØØ/3, (1)2ØØ/3	
ELP			100		42			(1)1ØØ/3, (1)2ØØ/3, (1)1ØØ/3, (1)1ØØ/3	
ABP			100		42			(1)1ØØ/3, (1)2ØØ/3, (1)1ØØ/3	
DRP			140		32			(1)1ØØ/3, (1)2ØØ/3, (1)2ØØ/3, (1)2ØØ/3, (1)2ØØ/3, (1)2ØØ/3	
CTP			225		42			(1)1ØØ/3, (1)2ØØ/3, (1)2ØØ/3, (1)2ØØ/3, (1)2ØØ/3, (1)2ØØ/3	
DRP			50		30			(1)2ØØ/3, (1)2ØØ/3	
CTP			100		60			(1)2ØØ/3, (1)2ØØ/3, (1)2ØØ/3	
LP-2			100		42			(1)2ØØ/3, (1)2ØØ/3	
HP-2			200		42			(1)4ØØ/3, (1)2ØØ/3, (1)2ØØ/3, (1)2ØØ/3	
HP			200		60			(1)2ØØ/3, (1)2ØØ/3, (1)2ØØ/3, (1)2ØØ/3	



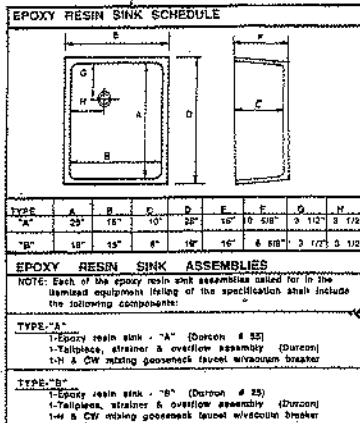
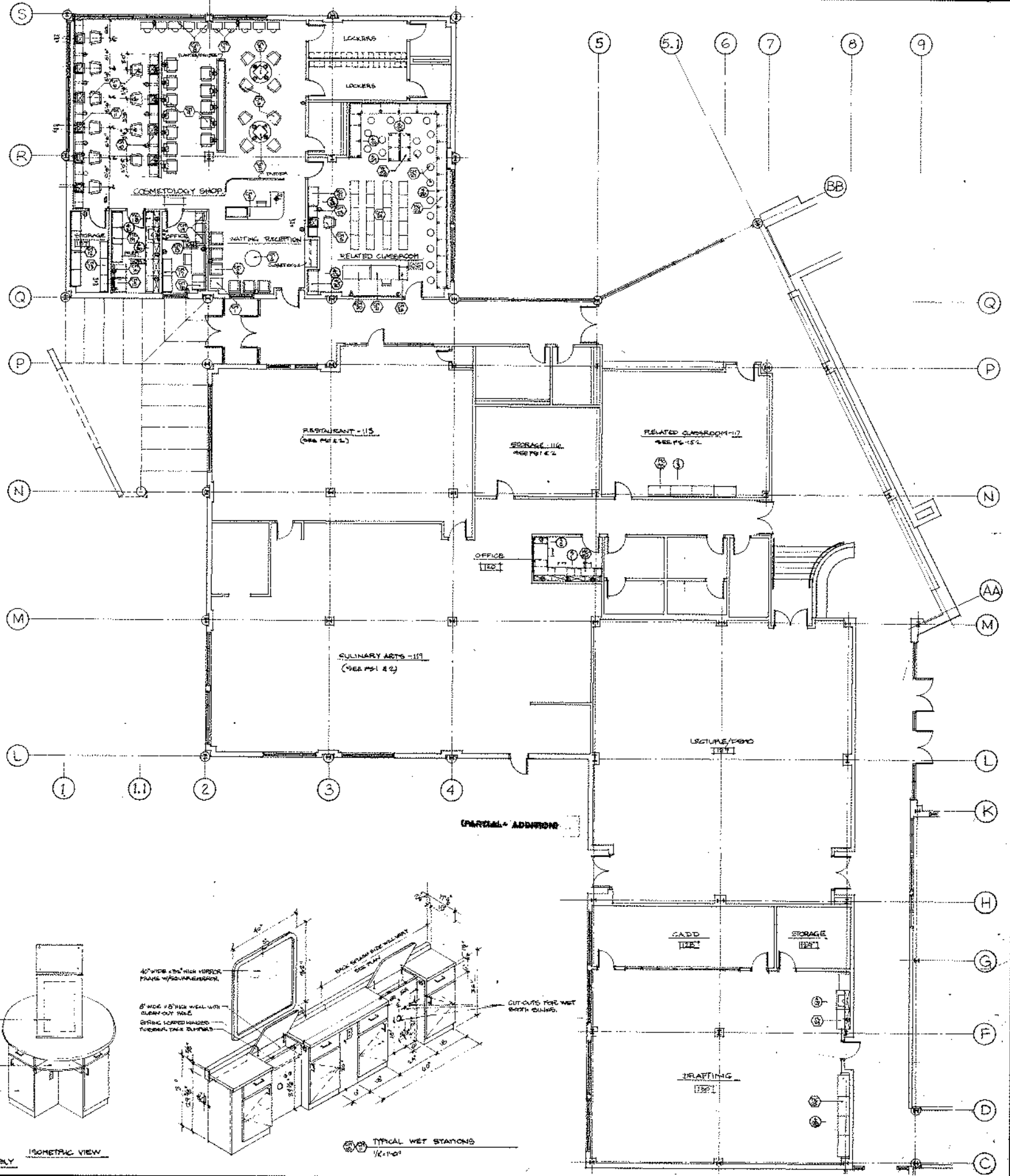
**SWITCHBOARD ELEVATION DETAIL**

**MAIN ELECTRIC ROOM DETAIL**





QTY	DESCRIPTION	NEW	EXIST.	HP	VOLTS/PHASE	REMARKS
<b>COSMETOLOGY SHOP</b>						
041	1	LOW TABLE				
042	2	WAITING ROOM CHAIRS				
043	1	LOW TABLE				
044	1	RECEPTION COUNTER & CHAIR				
045	2	RECEPTION COUNTER ASSEMBLY				
046	19	MULTIPURPOSE HYDRATING CHAIRS			120	5 TO FOUR (4) RECEPTACLES
047	10	MULTIPURPOSE STools				
048	10	MULTIPURPOSE TABLES				
049	12	DRYER CHAIRS W/STools			120	W/ GEP
0410	1	WET STATION ASSEMBLY			120	2W, RW, W & E TO RECEPTACLE
0411	1	WET STATION ASSEMBLY			120	2W, RW, W & E TO RECEPTACLE
0412	1	METAL STORAGE SHELVING ASSEMBLY				
0413	1	METAL STORAGE SHELVING ASSEMBLY				
0414	1	DOLBY			120	W/ GEP. FOAM EXHAUST BY MECH. CONT. W/ GEP. G.W. H.V.E. W/ STAIRWELL
0415	1	WASHER			120	W/ GEP. G.W. H.V.E. W/ STAIRWELL
0416	3	FILE CABINETS - 2 DRAWERS				
0417	2	LATERAL FILE				
0418	2	TEACHER'S DESK & CHAIR				
0419	3	SIDE CHAIR				
0420	1	TABLE 42" x 50"				
0421	1	WET STATION ASSEMBLY			120	2W, RW, W & E TO RECEPTACLE
0422	20	STools				
<b>DRAFTING</b>						
0423	1	COUNTER, SINK, SINK ASSEMBLY				2W, RW, W & E
0424	1	FULL HEIGHT STORAGE ASSEMBLY				
0425	1	FULL HEIGHT STORAGE ASSEMBLY				
0426	1	FULL HEIGHT STORAGE ASSEMBLY				
0427	1	MANNEQUIN COUNTER W/ MIRROR				W/ WINDSHIELD BY ELECTRICAL CONTRACTOR. W/ WINDSHIELD BY ELECTRICAL CONTRACTOR.
0428	1	MANNEQUIN COUNTER W/ MIRROR				W/ WINDSHIELD BY ELECTRICAL CONTRACTOR. W/ WINDSHIELD BY ELECTRICAL CONTRACTOR.



FIXTURE	CHICAGO FAUCET CO.	T&B FAUCET CO.	WATERBURY FAUCET
1/2" CW SWINGSPOUT FAUCET	1100	(ELKAY LK-250)	(DELTA 2100)
1/2" CW SINGLE LEVER SWINGSPOUT FAUCET		(ELKAY LK-400)	
1/2" CW GOOSENECK FAUCET (TAPER) LTD. W/VB	930-211	BL-57-315-B	1-207-VB

**STAINLESS STEEL SINK ASSEMBLY SCHEDULE**

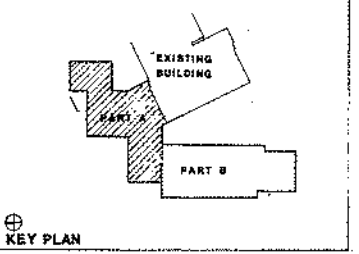
Note: Each of the stainless steel sink assemblies called for in the itemized equipment listing of the specifications shall include the following components unless otherwise noted:

**TYPE # SS-1**

- 1. Stainless steel single bowl sink 25"x22" overall, w/ bowl 21"x15 3/4"x7 1/2" d. l.d. (Elkay #LJ-232)
- 1. N & CW mixing swingspout faucet.
- 1. Strainer & Tailpiece Assembly (Elkay #LJ-35)

**TYPE # SS-2**

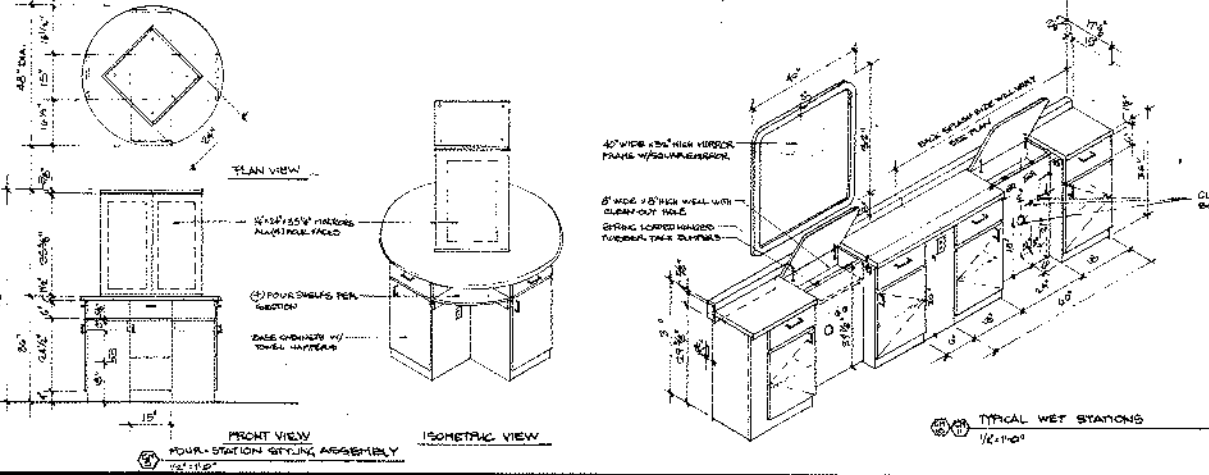
- 1. Stainless steel single bowl sink 25"x21 1/2" overall, w/ bowl 21"x10 3/4"x6 3/8" d. l.d. (Elkay #GEOR-251-A)
- 1. N & CW single lever central faucet.
- 1. Strainer & Tailpiece Assembly (Elkay #LJ-35)



- GENERAL NOTES**
- All Field Casework shown on these Equipment Drawings and identified with an MC and QC item number shall be bid as part of the General Contract.
  - Plumbing and electrical fixtures including pipes and lock nuts required for mounting in or on the equipment shall be furnished by the Equipment Sub-Contractor. Such fixtures shall be furnished unattached and unassembled to the Plumbing and Electrical Sub-Contractors. The Plumbing and Electrical Sub-Contractors shall install fixtures and provide all unattached piping and wiring, and final connections to equipment service fixtures, as part of the General Contract.
  - Equipment Sub-Contractor shall furnish sinks, including overflow, plug, strainer and tailpiece required for mounting in the equipment. Sinks shall be installed in the cabinetwork by the Equipment Sub-Contractor. Fixtures shall be furnished unattached and unassembled to the Plumbing Sub-Contractor, and the shall install fixtures and provide, install and connect all piping, traps, disinfectant, vents and piping within the cabinetwork in service fixture or funnels, through under or along back of work surfaces as part of the General Contract.
  - Equipment Sub-Contractor shall furnish all items requiring stand air exhaust, such as fume hoods, with duct connection 48" x 12" high. The ducting, installing and connecting of all ductwork, blowers, blowers, platforms, hatches and other exhaust system components from equipment duct also connection to the atmosphere, on all equipment requiring direct mechanical exhausting, such as fume hoods, shall be by the Mechanical Sub-Contractor as part of the General Contract.

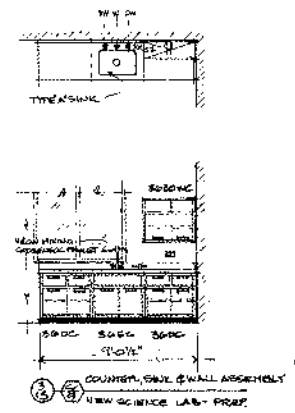
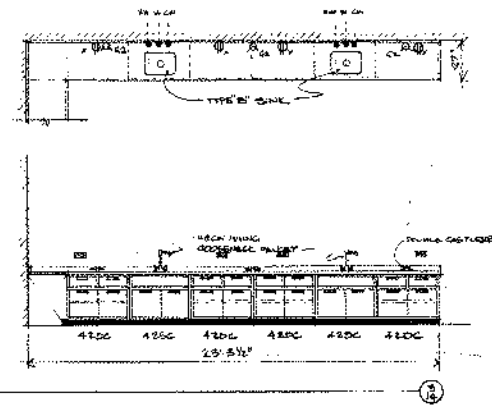
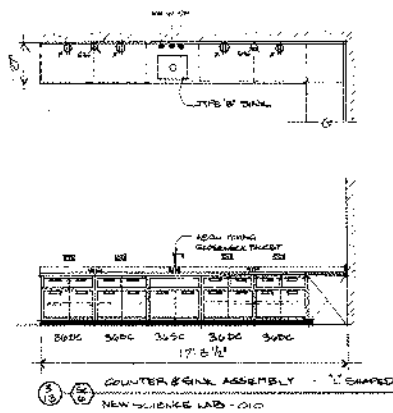
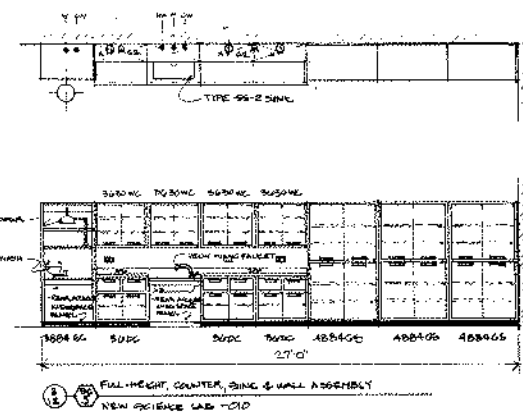
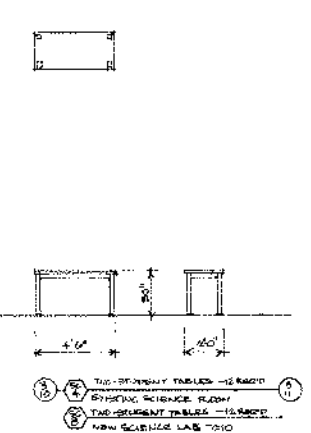
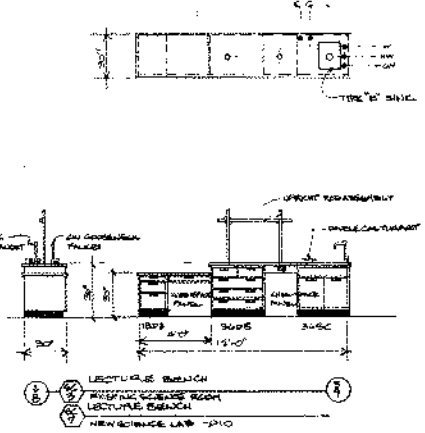
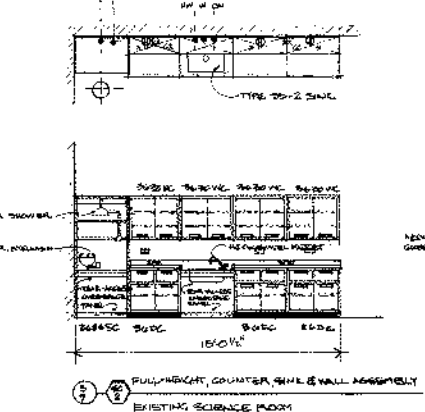
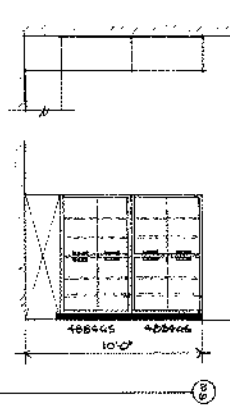
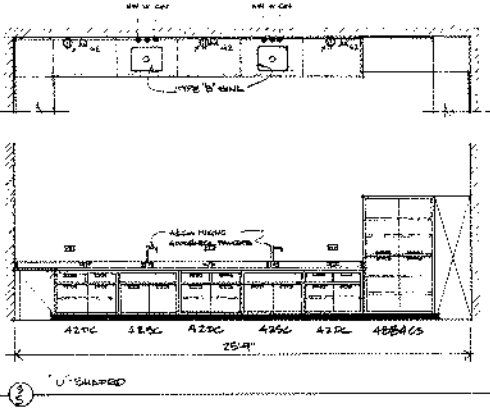
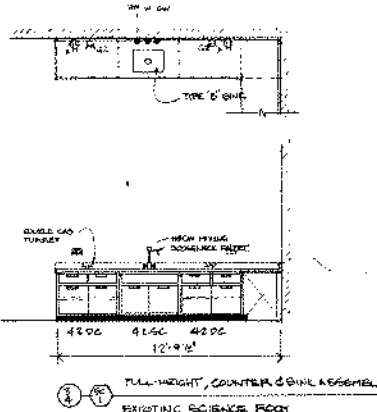
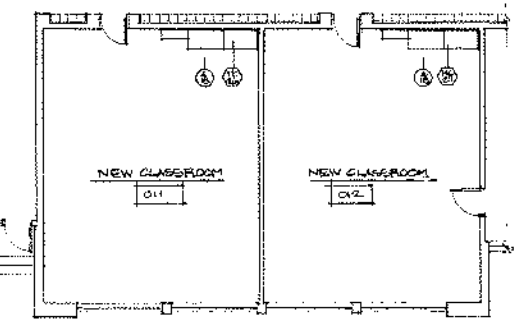
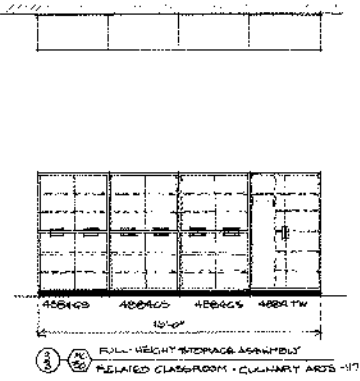
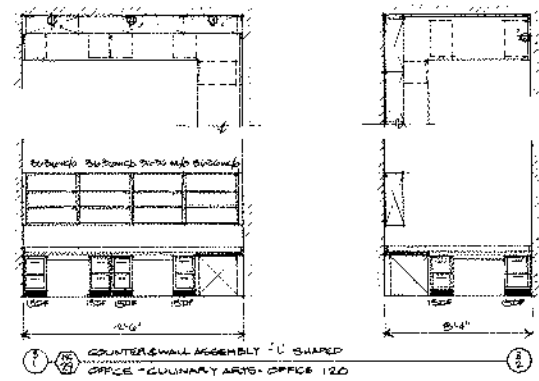
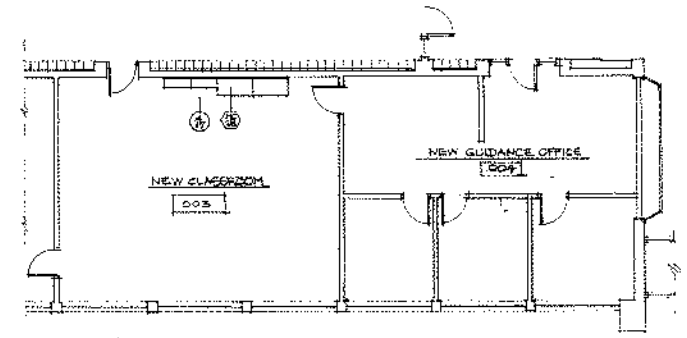
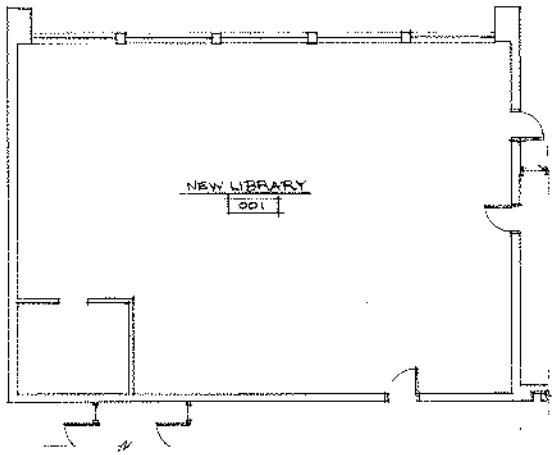
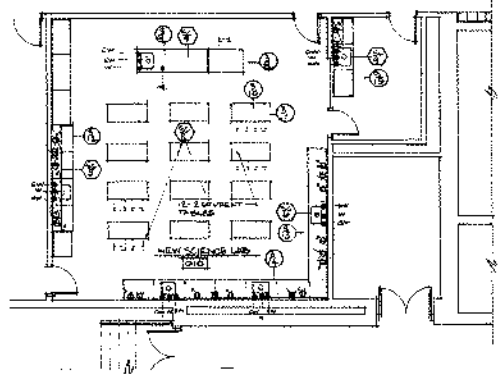
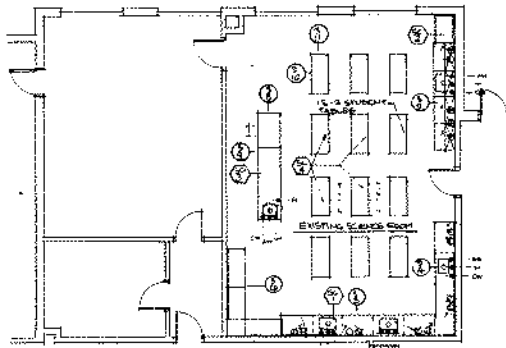
**EQUIPMENT DRAWING SYMBOLS LEGEND**

D	Dimple Receptacle	120V/60Hz
E	Dimple Receptacle	120V/60Hz/1P-2W A.F.P.
F	Dimple Receptacle	120V/60Hz/1P-2W A.F.P. Cont.
G	Fluorescent Light	AS SHOWN
H	Fluorescent Light	120V/60Hz/1P-2W A.F.P.
I	Fluorescent Light	120V/60Hz/1P-2W A.F.P. Cont.
J	Electrical Direct Connection	Current As Noted
K	Push Button	(Recommended Location)
L	Single Phase Elec. Switch	Protect by Equipment Cont.
M	Single Phase Elec. Switch	Protect by Equip. Cont.
N	Hot Water	
O	Waste	
P	Waste	
Q	Waste	
R	Waste	
S	Waste	
T	Waste	
U	Waste	
V	Waste	
W	Waste	
X	Waste	
Y	Waste	
Z	Waste	









TAVARES DESIGN ASSOCIATES  
EQUIPMENT CONSULTANTS  
319 Massachusetts Avenue  
Arlington, Massachusetts 02174  
Telephone: (617) 645-3342

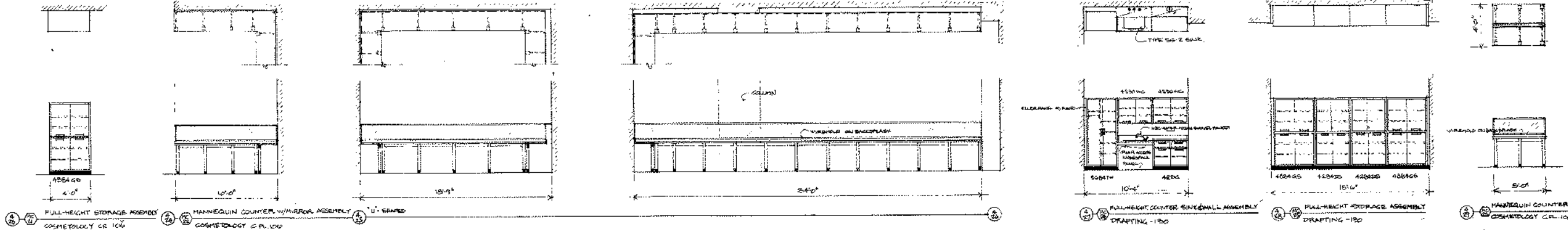
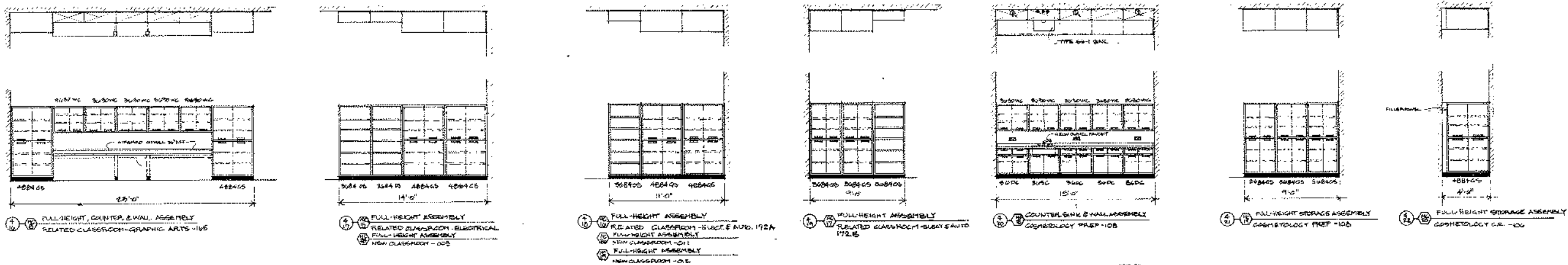
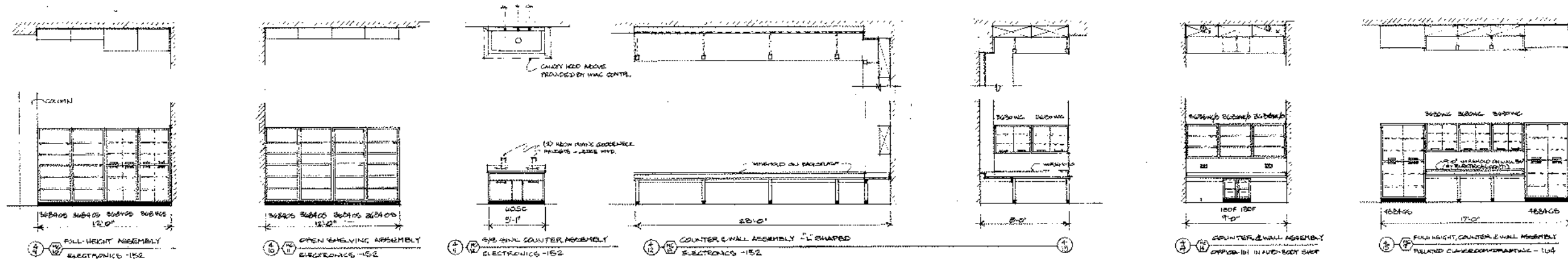
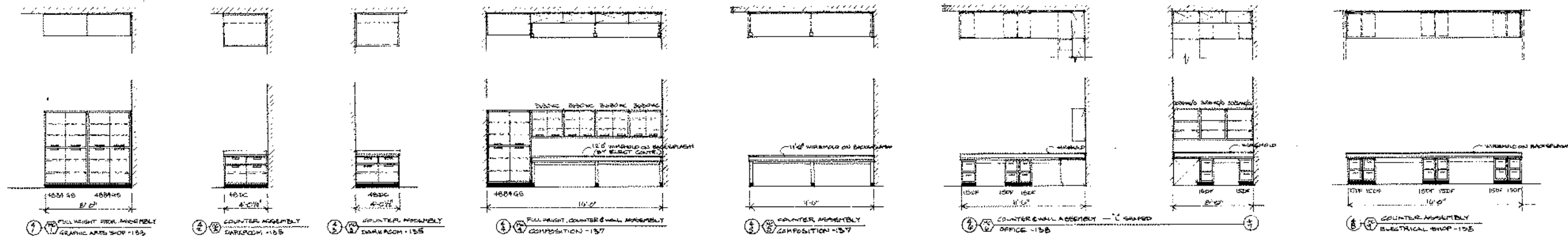
DKT Architects Inc.  
35 Bedford Street  
Somerville, Massachusetts 02143  
617-776-8242  
Fax 776-8241

ADDITIONS AND ALTERATIONS TO THE  
**SOUTH SHORE REGIONAL VOCATIONAL  
TECHNICAL HIGH SCHOOL**  
HANOVER, MASSACHUSETTS

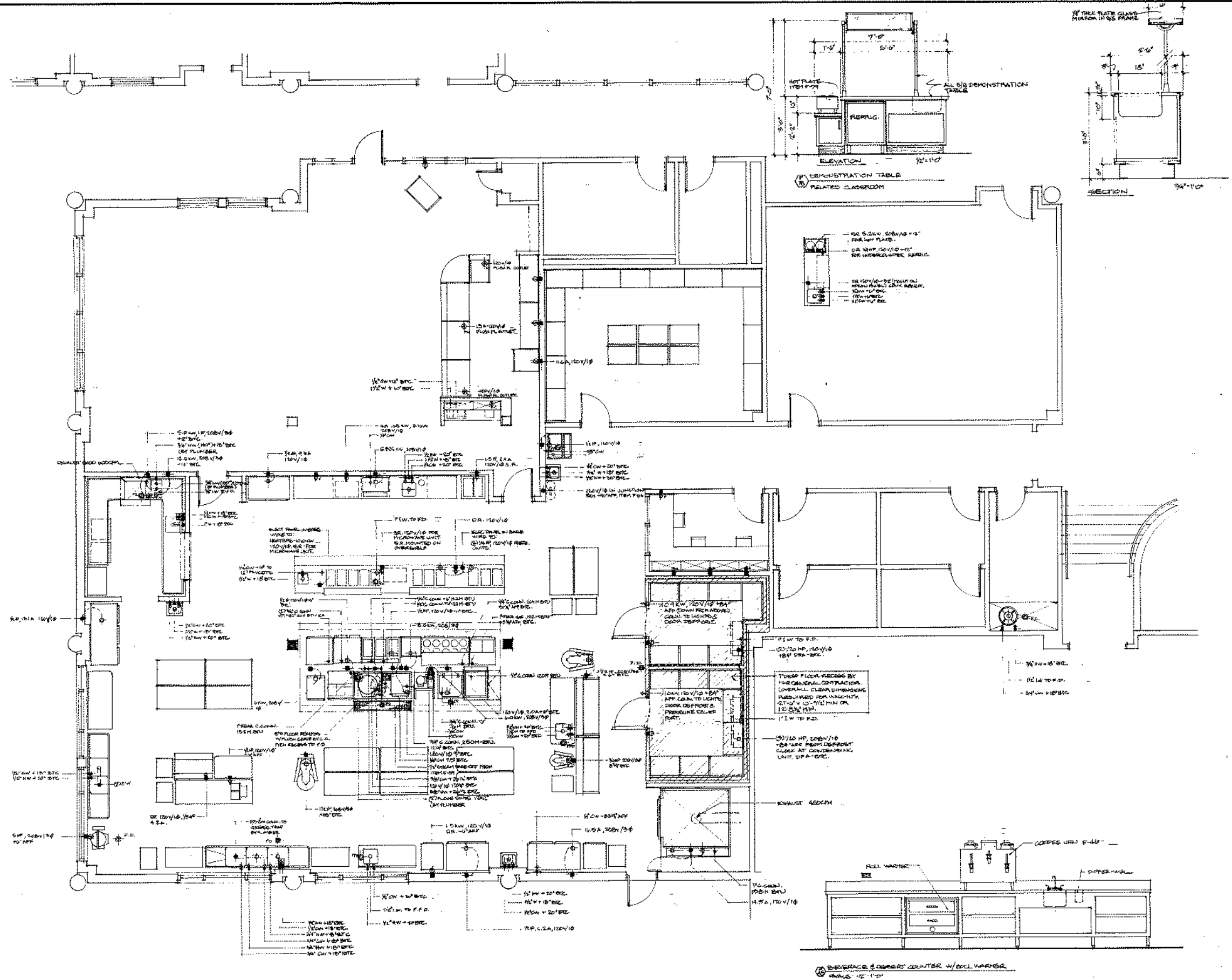
**EQUIPMENT FLOOR PLAN**  
CASEWORK ELEVATIONS AND DETAILS

DRAWN: AMS  
CHECKED:  
DATE: SEPT. 15, 1992  
SCALE: 1/8" = 1'-0" PLAN, 3/4" = 1'-0"

EQ-3



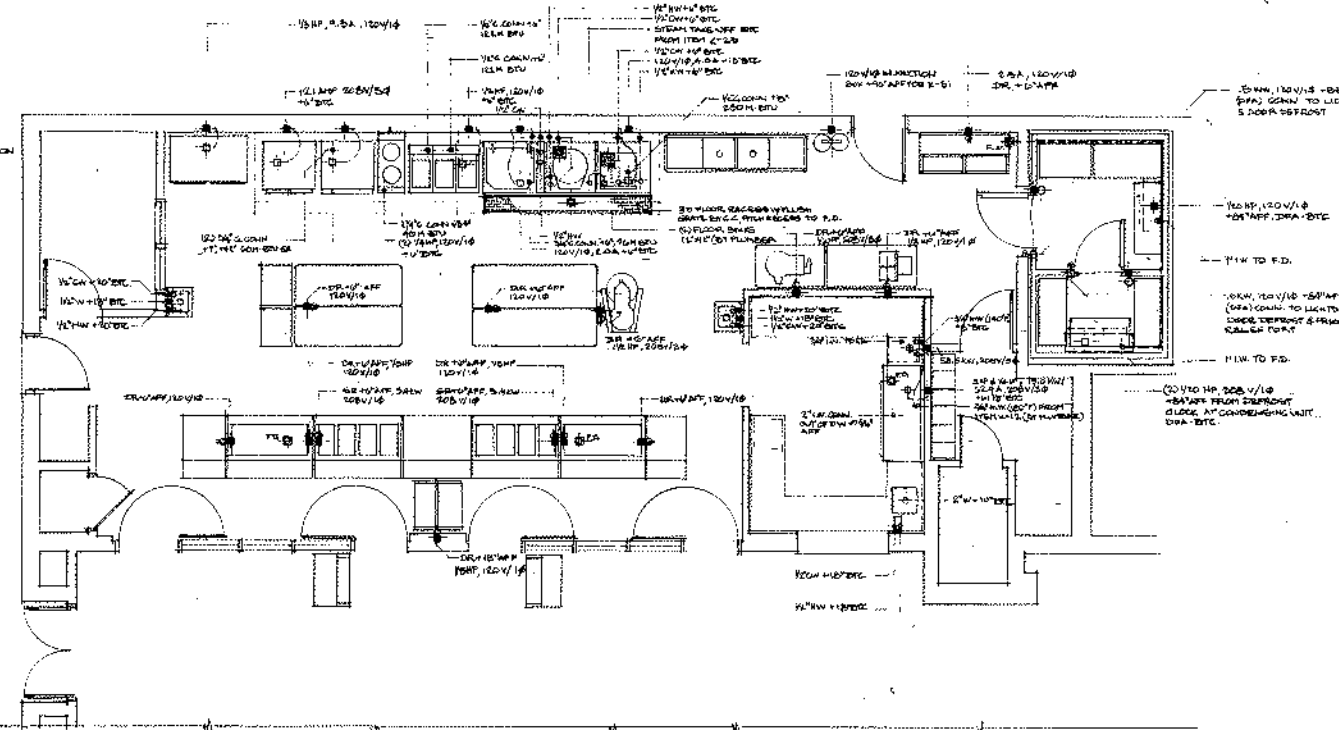
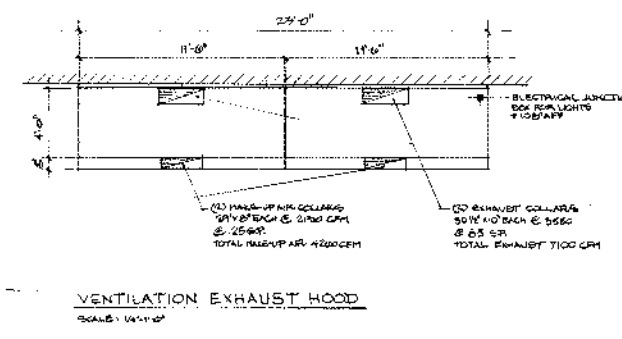
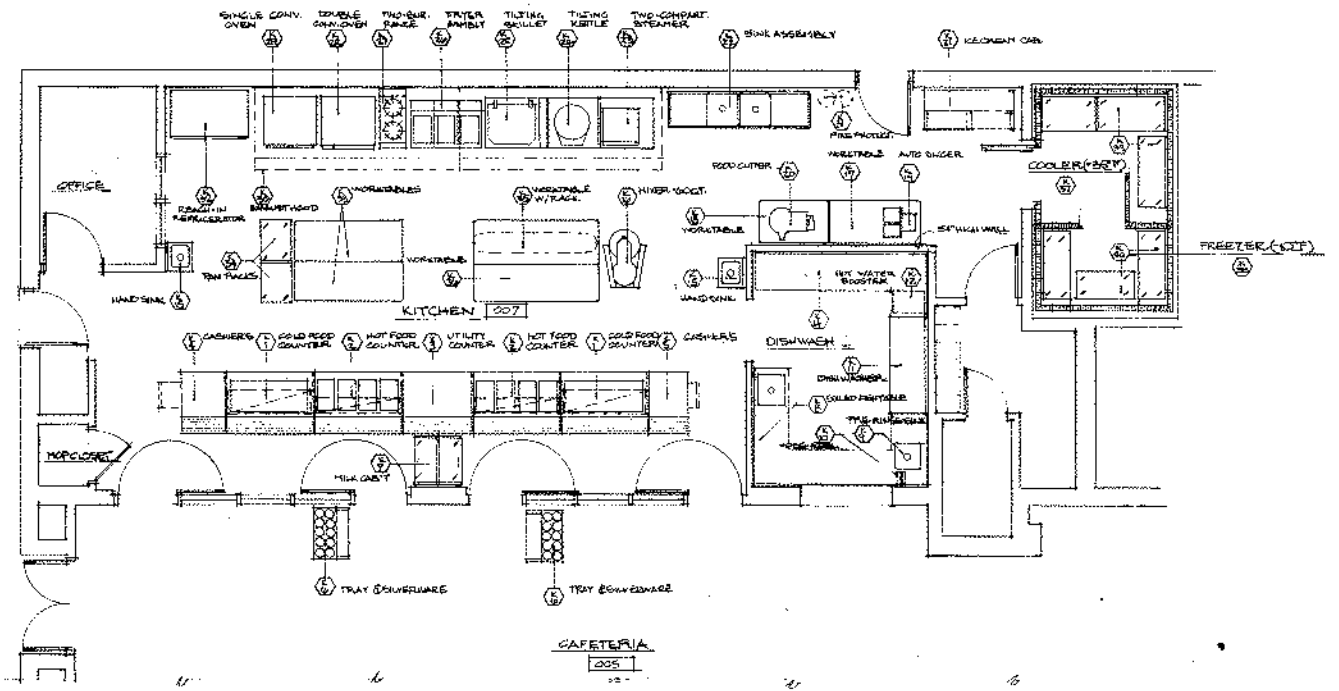




<p>TAVARES DESIGN ASSOCIATES EQUIPMENT CONSULTANTS</p> <p>319 Massachusetts Avenue Arlington, Massachusetts 02174 Telephone: (617) 648-3343</p>	<p>NKT Architects Inc. 16 Bedford Street Providence, Massachusetts 02914</p> <p>01776-6548 Ext. 776-808</p>	<p><b>ADDITIONS AND ALTERATIONS TO THE SOUTH SHORE REGIONAL VOCATIONAL TECHNICAL HIGH SCHOOL</b></p> <p>HANOVER, MASSACHUSETTS</p>	<p><b>FOOD SERVICE EQUIPMENT</b> CULINARY ARTS- ROUGHING IN PLAN</p> <p>DRAWN AND CHECKED</p> <p>DATE: SEPT. 15, 1992</p> <p>SCALE: 1/4" = 1'-0" UNLESS NOTED</p>	<p>8732.00</p> <p><b>FS-2</b></p>
---	---	--	---	-----------------------------------



KITCHEN EQUIPMENT SCHEDULE & CONNECTIONS														
ITEM NO.	QTY	NEW	BUSY	DESCRIPTION	MAKE & MODEL	DIMENSIONS				ELECTRICAL				REMARKS
						H	W	D	W	HP	W	PHASE	TYPE	
K-1	2	*		COLD FOOD SERVING COUNTER	ATLAS METAL GRD-074/03/ED4					120	1	YES		
K-2	2	*		HOT FOOD SERVING COUNTER	ATLAS METAL GRD-074/03/ED4					120	1	YES		
K-3	1	*		UTILITY SERVING COUNTER	ATLAS METAL GRD-074/03/ED4					120	1	YES		
K-4	1	*		CASHIER'S STATION	ATLAS METAL									
K-5	1	*		CASHIER'S STATION	ATLAS METAL									
K-6	2	*		TRAY & SILVERWARE CART	ATLAS METAL TSC									
K-7	1	*		MILK CABINET	BEVERAGE AIR BT DA H-6					120	1	YES		
K-8	1	*		SOLID DESKTABLE W/ SINK	S/S									
K-9	1	*		FRYS PANNE SINK	FABRICATE -S/S									
K-10	1	*		HOSE REEL ASSEMBLY	T.E. BRASS B-HOB									
K-11	1	*		DISHWASHER	HOBERT GR-60A					208	3	YES	HW FROM BOILER ROOM L-2	
K-12	1	*		HOT WATER BOOSTER	HAYCO CC-58					208	3	YES		
K-13	1	*		CANOPY EXHAUST HOOD	S/S									
K-14	1	*		CLEAN DESKTABLE	S/S									
K-15	2	*		HAND SINK	SECO HS-15-2H									
K-16	1	*		MIXER-DO QUART	HOBERT H-600					208	3	YES	10.6A	
K-17	1	*		WORKTABLE 40"X30"	S/S									
K-18	1	*		WORKTABLE 40"X30"	S/S									
K-19	1	*		AUTOMATIC SLICER	HOBERT 1712 E					120	1	YES	4.6A	
K-20	1	*		FOOD CUTTER	HOBERT					120	1	YES	2.9A	
K-21	1	*		ICE CREAM FREEZER CHEST	GERALD GFC 130					120	1	YES		
K-22	1	*		SINK ASSEMBLY - 8"	S/S									
K-23	1	*		TWO COMPARTMENT STEAMER	MARKET FORCE 35002					120	1		4.0A	
K-24	1	*		TILTING KETTLE - 60 GAL	MARKET FORCE HT-40					208	3	YES	3A SUPPLY FROM ITEM K-25	
K-25	1	*		TILTING KETTLE - 25 GAL	MARKET FORCE 1500					120	1		2.5A	
K-26	1	*		PIZZA PREPARATOR	PIZZA PREPARATOR 240/14/14					120	1		W/ 20 AMP FUSE	
K-27	1	*		TWO BURNER RANGE	SARLAND 4045					120	1			
K-28	1	*		DOUBLE CONVECTION OVEN	MARKET FORCE 3275 NEG					120	1			
K-29	1	*		SINGLE CONVECTION OVEN	MARKET FORCE H-2000					208	3		12.1A	
K-30	1	*		EXHAUST HOOD ASSEMBLY	AQUA VENT HE 4013-R2MHU					120	1		MAKE UP AIR @ 80% @ 4500 CFM	
K-31	1	*		FLAME PROTECTION SYSTEM	AMUL RANGE GUARD					120	1			
K-32	1	*		REACH IN REFRIGERATOR	TRAUEREN GHT 2 - 30" NUT					120	1		7.8A	
K-33	2	*		WORKTABLES 72"X27"	FABRICATE -S/S									
K-34	2	*		PAN RACKS										
K-35	1	*		WORKTABLE W/ RACK 54"X30"										
K-36	1	*		WORKTABLE 84"X30"	FABRICATE -S/S									
K-37	1	*		WALK-IN COOLER (750#)	DAILY CASE, THERMO-KOOL					120	1		20 LIGHTS & DOOR DEFROST	
K-38	1	*		EVAPORATOR COIL	CLIMATE CONTROL LSC00A-1					120	1			
K-39	1	*		CONDENSING UNIT	CLIMATE CONTROL TR000A-2					208	3		ROOF MOUNTED	
K-40	1	*		WALK-IN FREEZER	DAILY CASE, THERMO-KOOL					120	1		20 W/ 20 AMP FUSE & EXHAUST FRENCH DOOR	
K-41	1	*		EVAPORATOR COIL	CLIMATE CONTROL LSE 010A-2					208	3		ROOF MOUNTED	
K-42	1	*		CONDENSING UNIT	CLIMATE CONTROL TR-010A-2					208	3		ROOF MOUNTED	
K-43	1	*		LOT MOBILE REHEATING (COOLER)	METRO-WIRE SUPER BREAD									
K-44	1	*		LOT MOBILE REHEATING (FREEZER)	METRO-WIRE SUPER BREAD									



TAVARES DESIGN ASSOCIATES  
EQUIPMENT CONSULTANTS  
319 Massachusetts Avenue  
Attleboro, Massachusetts 02174  
Telephone: (517) 645-3243

TRC Architects Inc.  
30 Main Street  
Attleboro, Massachusetts 02174  
Tel: 774-854-1000  
Fax: 774-854-1075

ADDITIONS AND ALTERATIONS TO THE  
SOUTH SHORE REGIONAL VOCATIONAL  
TECHNICAL HIGH SCHOOL  
HANOVER,  
MASSACHUSETTS

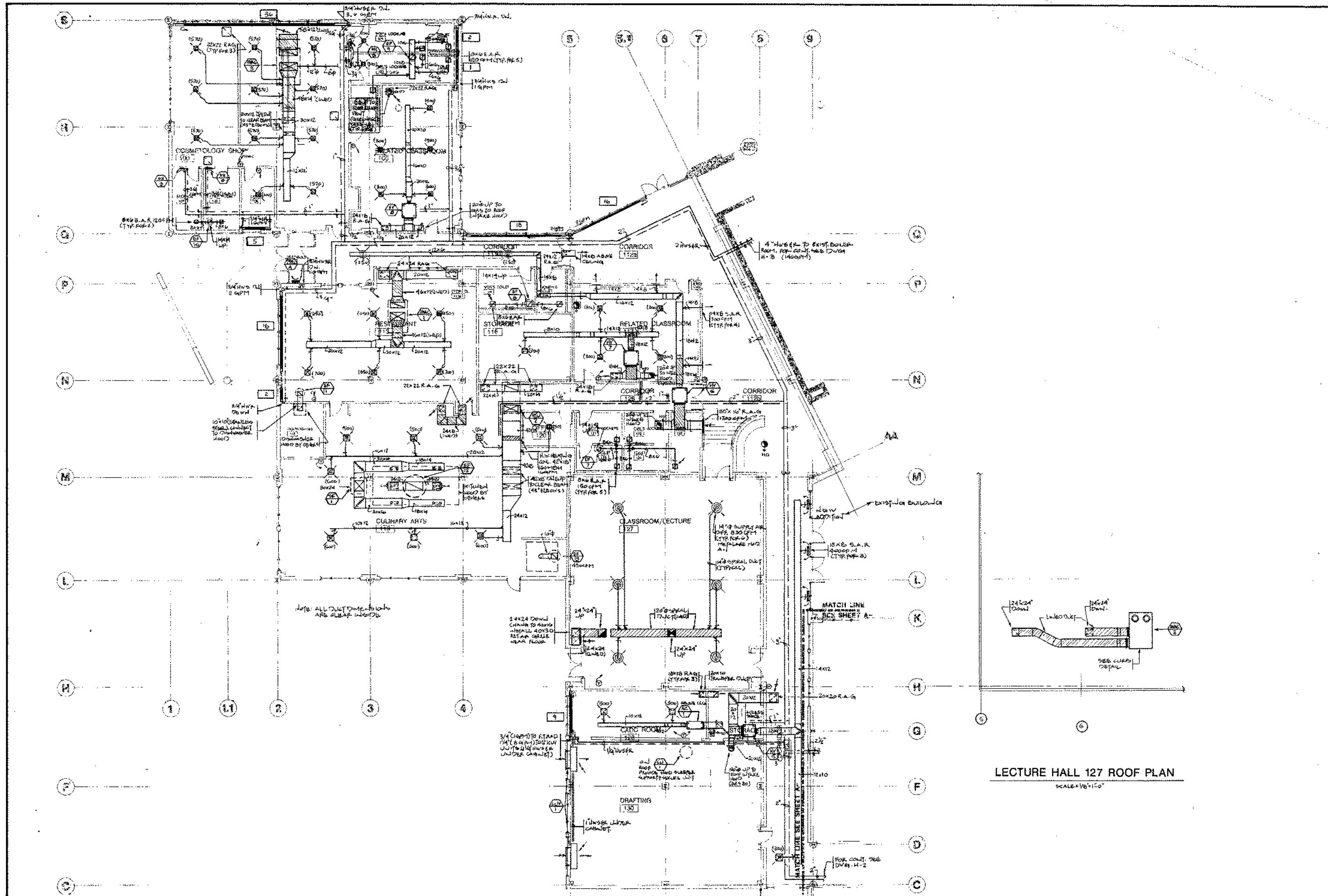
FOOD SERVICE EQUIPMENT  
MAIN KITCHEN - SCHEDULE AND ROUGHING IN  
DRAWN: ARS  
CHECKED:

DATE: SEPT. 15, 1992  
SCALE: W-1/2"

8732.00  
FS-4

20' ABOVE 70' SEC





LECTURE HALL 127 ROOF PLAN  
SCALE: 1/8" = 1'-0"

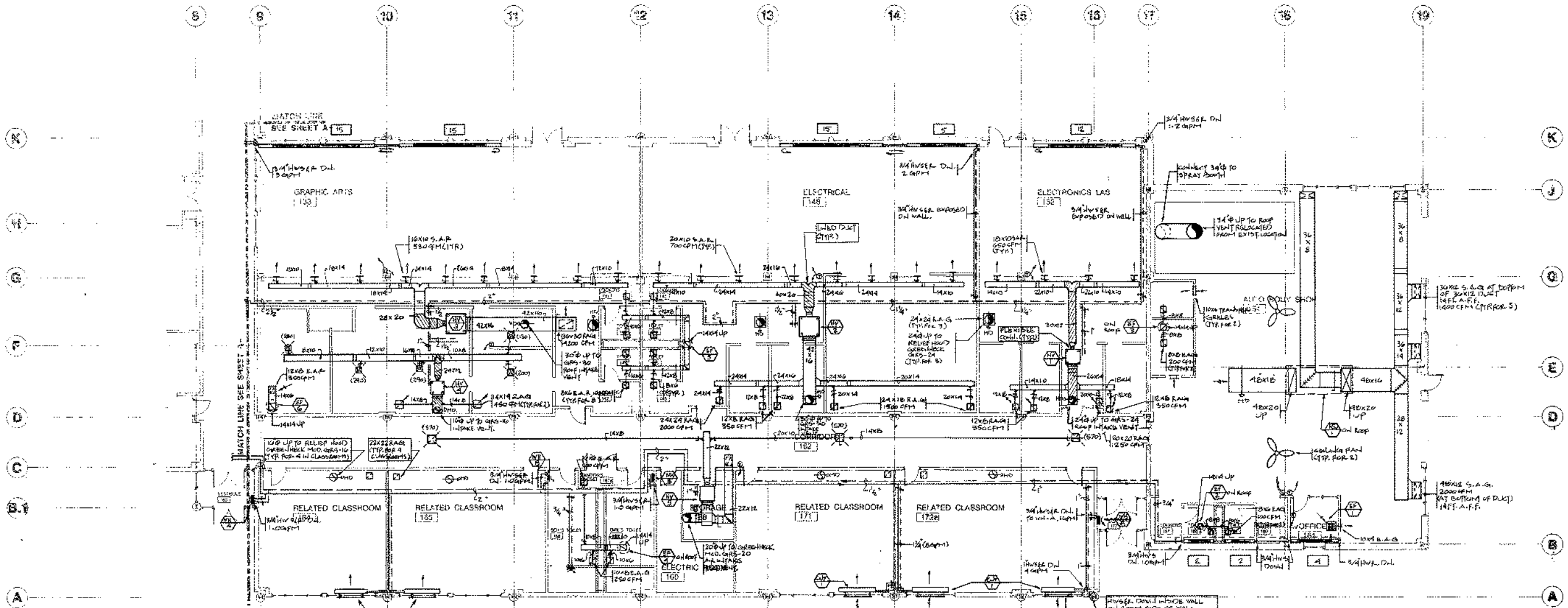
**ZADE COMPANY INC.**  
CONSULTING ENGINEERS  
140 BEACH STREET, BOSTON, MA 02111  
TEL: (617) 536-4400



**HKT Architects Inc.**  
35 Mount Vernon Street  
Somerville, Massachusetts 02145  
817776-6846  
Fax: 719-9076

<b>HVAC FLOOR PLAN - PART 'A'</b>		
DRAWN:	DATE: 9-15-92	<b>H-1</b>
CHECKED:	SCALE: 1/8" = 1'-0"	





**ZADE COMPANY INC.**  
 CONSULTING ENGINEERS  
 140 BEACH STREET, BOSTON, MA 02114  
 TEL: (617) 338-4400



**PKCT Architects Inc.**  
 33 Electric Street  
 Springfield, Massachusetts 01103  
 TEL: 417-774-4546  
 FAX: 417-774-6872

DATE: 9-15-12  
 SCALE: 1/8" = 1'-0"

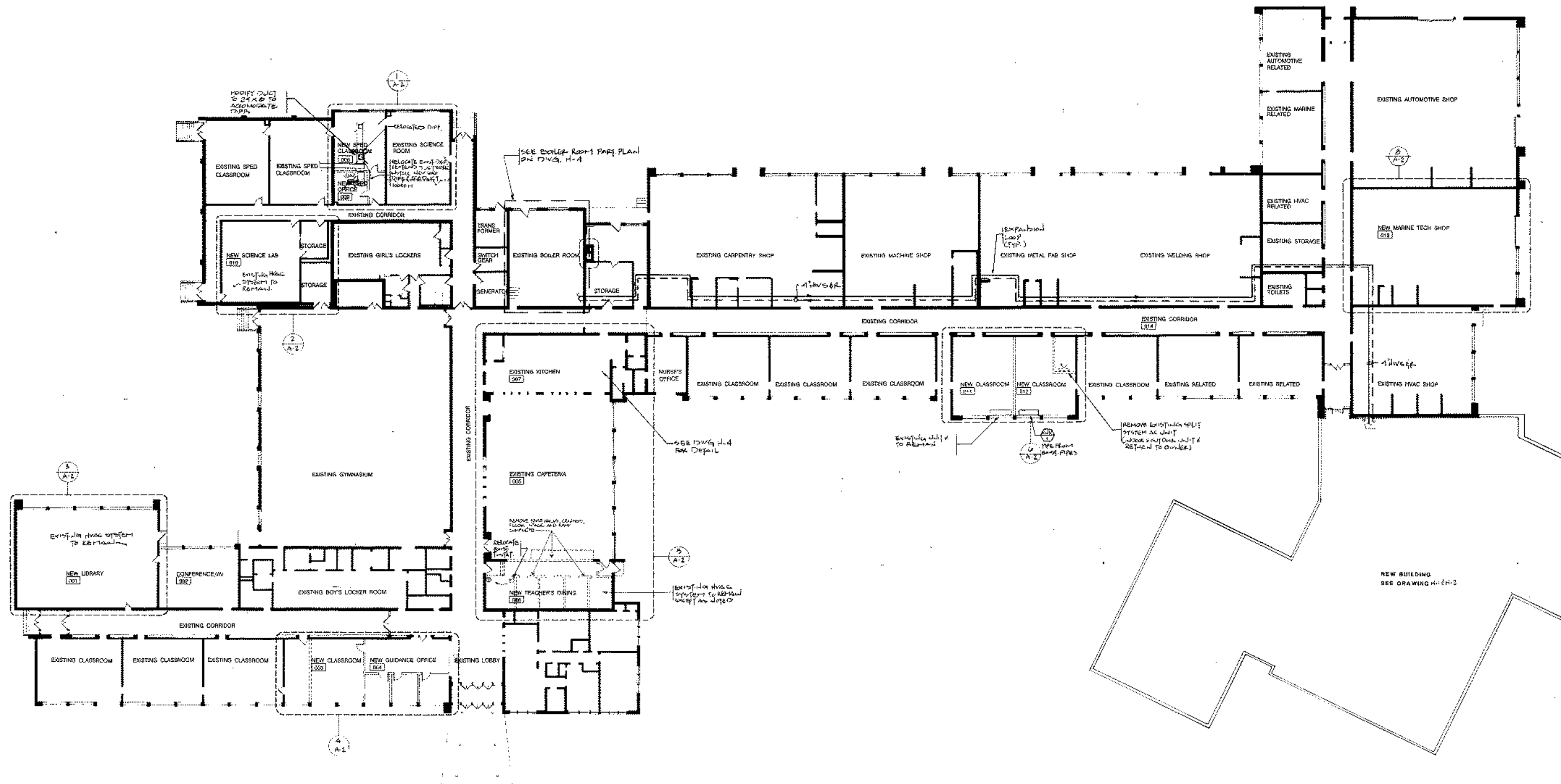
**ADDITIONS AND ALTERATIONS TO THE  
 SOUTH SHORE REGIONAL VOCATIONAL  
 TECHNICAL HIGH SCHOOL**  
 HANOVER, MASSACHUSETTS

WALL FOR LOUVER PROVIDED WITH CLASSROOM UNIT VENTILATOR. INSTALLED BY G.C. REFER TO ARCH. DIVISION FOR EXACT LOCATION (TYPICAL)

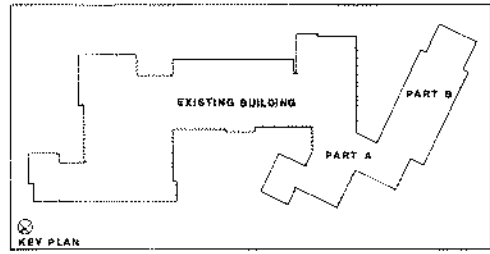
HVACER DOWN INSIDE WALL ON ROOM SIDE OF WALL. INSULATION, AIR OBSTRUCTION TO MAKE SURE WALL INSULATION INSTALLED PROPERLY. GIBBS INSTALLATION P.V.E. (TYPICAL)

**HVAC FLOOR PLAN - PART 'B'**  
 DRAWN: M.  
 CHECKED: WJ  
 DATE: 9-15-12  
 SCALE: 1/8" = 1'-0"

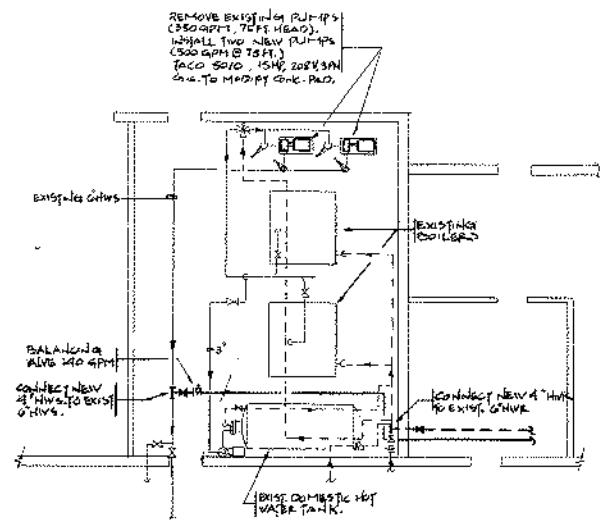
**H-2**



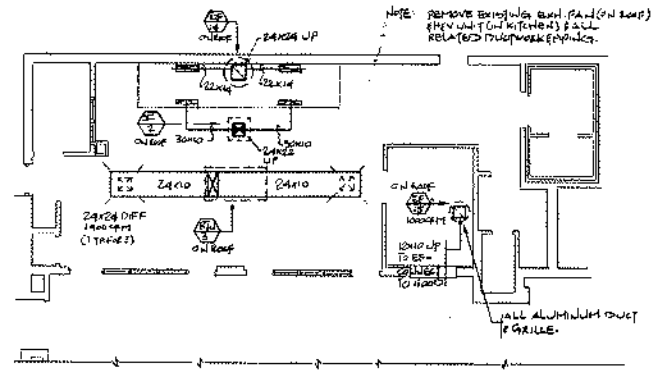
**EXISTING BUILDING FIRST FLOOR PLAN**  
SCALE: 1/16" = 1' - 0"



<p><b>ZADE COMPANY INC.</b> VOCATIONAL ENGINEERS 140 BEACH STREET, BOSTON, MA 02111 TEL: (617) 338-4400</p>		<p><b>4K* Architects Inc.</b> 33 Edward Street Somerville, Massachusetts 02143 417775-0645 FAX: 776-5075</p>	<p>ADDITIONS AND ALTERATIONS TO THE <b>SOUTH SHORE REGIONAL VOCATIONAL TECHNICAL HIGH SCHOOL</b> HANOVER, MASSACHUSETTS</p>	<p><b>EXISTING BUILDING FIRST FLOOR PLAN - HVAC</b></p> <p>DRAWN: M. CHECKED: MB</p> <p>DATE: 9-15-92 SCALE: 1/16" = 1' - 0"</p>	<p>8732.00 <b>H-3</b></p>
---	--	--	---	--	-------------------------------



PLAN - EXIST BOILER ROOM  
SCALE: 1/8" = 1'-0"



EXIST KITCHEN ROOM 004  
SCALE: 1/8" = 1'-0"

ZADE COMPANY INC.  
CONSULTING ENGINEERS  
140 BEACH STREET BOSTON, MA 02111  
TEL: 617-552-9400



HKT Architects Inc.  
35 Medford Street  
Somerville, Massachusetts 02145  
617-776-6615  
Fax: 776-0176

ADDITIONS AND ALTERATIONS TO THE  
SOUTH SHORE REGIONAL VOCATIONAL  
TECHNICAL HIGH SCHOOL  
HANOVER, MASSACHUSETTS

HVAC PART PLANS AND DETAILS

DRAWN: M  
CHECKED: M

DATE: 9-15-92  
SCALE: AS NOTED

H-4

HEATING & VENTILATING UNIT SCHEDULE														
TAG	CFM	SR	MIN. O.A.F. CFM	E.A.T. °F	L.A.T. °F	HEAT CAP. MBH	E.W.T. °F	L.W.T. °F	GPM	P.D. FT.	FAN HP	V/PH	MANUF. / MODEL NO.	REMARKS
HV-1	2600	1 1/4	300	65	90	70	180	100	7		3/4	208/3	TRANE / TORV100	
HV-2	5000	1 1/4	700	65	91	140			16		2 1/2			108
HV-3	1800	1 1/4	600	65	90	130			13		2			108
HV-4	1200	1 1/4	200	62	100	60			5		1/2			103
HV-5	1500	1 1/4	150	66	96	80			5		3/4			103
HV-6	1700	1 1/4	200	65	92	50			5		3/4			103
HV-7	1500	1 1/4	250	62	93	50			5		3/4			103
HV-8	1600	1 1/4	300	60	89	50			5		3/4			103

PROVIDE WITH VENTILATION PACKAGES, HUMIDIFIER SUPPLEMENTS, THERMOSTAT FILTERS & FILTERS. PROVIDE WITH OUTDOOR AIR FILTER.

SPLIT SYSTEM AC UNIT SCHEDULE																
TAG	TONS	TOTAL MBH	SEAS. MBH	INDOOR UNIT				OUTDOOR UNIT				REMARKS				
				CFM	SR	W.A.T. °F	FAN HP	V/PH	MANUF./MODEL	MANUFACT. NO.	MCA		MCCP	V/PH	MODEL	
AC-1	1 1/2	29.8	21.2	1000	0.5	100	1/8	208/1	1/2	TRANE / TW1030	1.7	16	24	40	208/1	TRANE / TW1030

PROVIDE WITH HEATING/COOLING T-STAT WITH SW-BASE, CIRCUITRY, LOW AMPERAGE WIRE STARTER, 1/2" DIA. COIL, 5/16" DIA.

CABINET UNIT HEATER SCHEDULE													
TAG	CFM	HEAT CAP. MBH	GPM	E.W.T. °F	L.W.T. °F	P.D. FT.	FAN HP	V/PH	MANUFACTURER / MODEL NO.	REMARKS			
UH-A	200	19	2	180	160	0.83	1/60	120/1	TRANE / H46A002	PROVIDE W/FILTERS & T-STAT			
UH-B	36	4	1.0	180	172	0.25	1/8 AMP	120/1	DEACON MURRAY / W-41	W/1" MINOR T-STAT			

EXHAUST FAN SCHEDULE										
TAG	TYPE	SERVICE	CFM	SR	RPM	HP	V/PH	CONTROLLED BY	MANUF. / MODEL NO.	REMARKS
EF-1	CEILING	OFFICE	180	0.25	-	115 W.	120/1	ON-OFF SWITCH	BROAN L050JK 362	
EF-2	ROOF	TOILET	200	0.3	1460	1/4	120/1	TIME CLOCK	GREENHECK / 48-B	PROVIDE W/REPAIR MANUAL
EF-3		PAINT SHOP	400	0.3	1400	1/4	120/1			
EF-4		TOILETS	600	0.4	165	1/4	120/1			
EF-5		TOILETS	800	0.37	1250	1/4	120/1			
EF-6		DARK ROOM	300	0.3	1300	1/4	120/1			
EF-7		TOILET	400	0.4	1165	1/4	120/1			
EF-8		TOILET	300	0.3	1300	1/4	120/1			
EF-9		TOILET	400	0.4	1165	1/4	120/1			
EF-10		LABORATORY	300	0.3	1300	1/4	120/1			
EF-11		DEHUMIDIFIER	600	0.4	1205	1/4	120/1	ON-OFF SWITCH		
EF-12		KITCHEN HOOD	12000	1.0	385	5	208/3	ON-OFF SWITCH		
EF-13		REPAIR OVER	450	0.4	1150	1/4	120/1	ON-OFF SWITCH		
EF-14		MAKE-UP AIR FOR K. HOOD	7500	0.5	440	2	208/3	INTERLOCK WITH EF-13		PROVIDE W/FILTER
EF-15		"	4200	0.5	460	1	208/3	INTERLOCK WITH EF-14		"
EF-16		KIT. HOOD	7100	1.2	590	3	208/3	ON-OFF SWITCH		
EF-17		DISH W.	1000	0.375	565	1/4	120/1	ON-OFF SWITCH		

### FIN-TUBE RADIATION SCHEDULE

STEEL LINE MODEL VERSA LINE C34434 STYLE 5 WITH 3/8" DIA. COPPER ALUMINUM ELEMENTS, 3/4" TUBE, 40 FPM/FT, 18 GAUGE C.R.S. ENCLOSURE WITH FULL BACK PLATE, ACCESS DOOR HANGERS, ENCLOSURE SHALL BE FACTORY PAINTED BAKED ENAMEL (COLOR TO BE SELECTED BY ARCHITECT). CAPACITY = 1150 BRM/FT @ 170°F AVERAGE WATER TEMP.

### DIFFUSERS & REGISTERS SCHEDULE

SUPPLY AIR DIFFUSERS: METAL AIR FLOW 5000 (WITH 2" DIA. PANEL FOR TOP INSULATION) SIZES SHALL BE AS FOLLOWS:

CFM RANGE	SIZE	NECK NIPERLEX SIZE
UP TO 120 CFM	6" X 6"	6"
120 TO 220	8" X 8"	8"
220 TO 420	12" X 12"	12"
420 TO 750	18" X 18"	18"

SUPPLY AIR REGISTER SIZES (S.A.R.): METAL AIR FLOW MODEL VM W/DAMPER. PROVIDE WITH OPPOSED BLADE DAMPER.

RETURN & EXHAUST AIR REGISTERS (R.A.R.E.A.R.): METAL AIR FLOW RH WITH DAMPER.

GAS FIRED ROOFTOP HVAC UNIT SCHEDULE																	
TAG	TONS	CFM	MIN. O.A.F. CFM	ENTER AIR °F	EXIT AIR °F	SE-BALANCE °F	HEAT CAP. MBH	GAS INPUT MBH	SWITCH RATIO	SUPPLY AIR °F	CONDENSER NO./R.A.	V/PH	MCA	MCCP	MANUF./MODEL	WEIGHT LBS	REMARKS
HVAC-1	10	4000	1000	0.6	117	84	201	250	1/1	2	2/19	208/3	55.7	70	TRANE / R0100H	1800	
HVAC-2	12 1/2	5000	1350	0.8	148	103	201	260	2/0.5	3	2/24.3	208/3	71.6	80	TRANE / R0100H	2100	
HVAC-3	15	6000	1800	0.9	173	123	201	260	2/0.5	3	2/26.7	208/3	81.5	90	TRANE / R0100L	2300	

PROVIDE WITH ROOF CURB, DOWNDRAFT SUPPLY STARTERS, FILTER, FULL ECONOMIZER, HEATING/COOLING AUTOMATIC CHANGE OVER, INTERLOCK WITH SW-BASE. PROVIDE WITH OUTDOOR AIR FILTER.

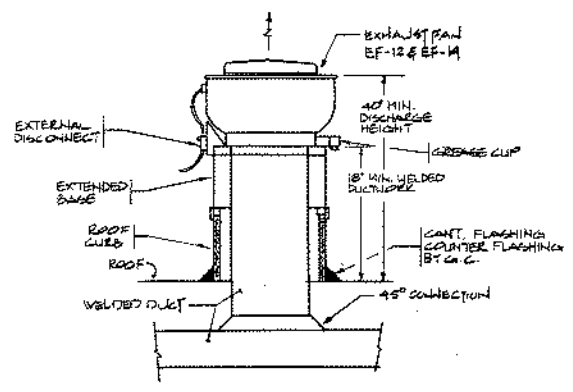
GAS FIRED ROOFTOP HEATING & VENTILATING UNIT SCHEDULE													
TAG	CFM	SR	MIN. O.A.F. CFM	GAS INPUT MBH	HEAT OUTPUT MBH	FAN HP	V/PH/HZ	WEIGHT LBS	MANUF. / MODEL	REMARKS			
RJW-1	7600	1.7	7600	1200	924	5	208/3/60	2000	REZ-JOR / R4BL-200				
RJW-2	1000	1.0	1000	300	231	2	208/3/60	1200	REZ-JOR / R4BL-300H				
RJW-3	2800	1.0	2800	300	251	1.0	208/3/60	1200	REZ-JOR / R4BL-300				

PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER, INTERMITTENT SPARK PLUG, STAPLER, ELECTRONIC MODULATOR, GAS CONTROL, T-STAT, FILTER, FIBERGLASS INSULATION, AIR FLOW PREVENTER ON R.H. COIL, 100% OUTSIDE AIR FLOW, STARTER.

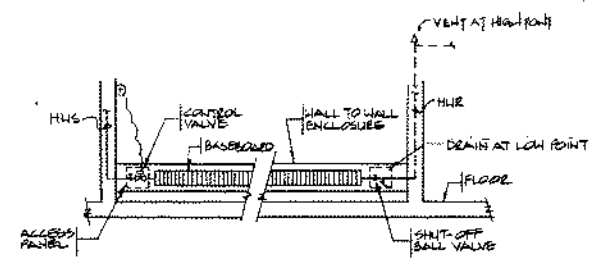
CLASSROOM HEATING & VENTILATING UNIT SCHEDULE														
TAG	CFM	SR	MIN. O.A.F. CFM	E.A.T. °F	L.A.T. °F	HEAT CAP. MBH	E.W.T. °F	L.W.T. °F	GPM	P.D. FT.	FAN HP	V/PH	MANUF. / MODEL	REMARKS
CLW-1	3000	-	200	58	100	95	180	160	3	3.0	1/6	120/1	TRANE / TNA10VT	

PROVIDE WITH ASHRAE II CYCLE CONTROL, 1/2" GAGE COIL, DUCT PLATES ARE CONTINUED TO ROOMS. PROVIDE WITH 100% OUTSIDE AIR FLOW, T-STAT, FILTER, DOWNDRAFT SUPPLY STARTER.

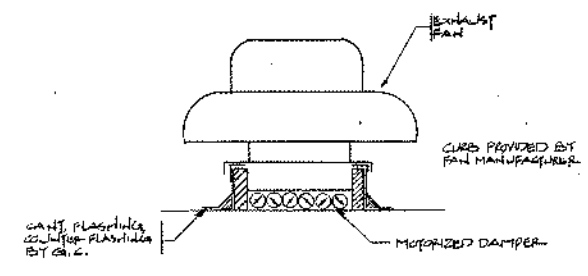




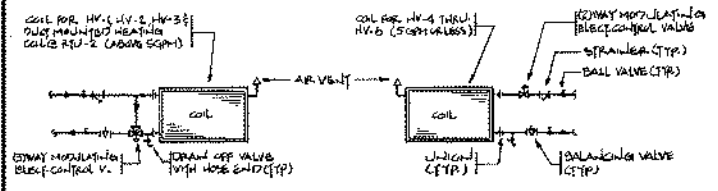
KITCHEN HOOD EXHAUST FAN DETAIL  
H.T. 5



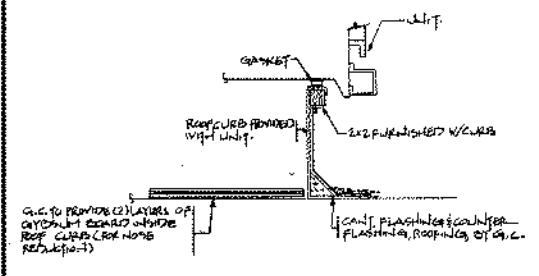
FIN-TUBE RADIATION DETAIL  
H.T. 6



ROOF EXHAUST FAN DETAIL  
H.T. 6



HOT WATER HEATING COIL PIPING DETAIL  
H.T. 5

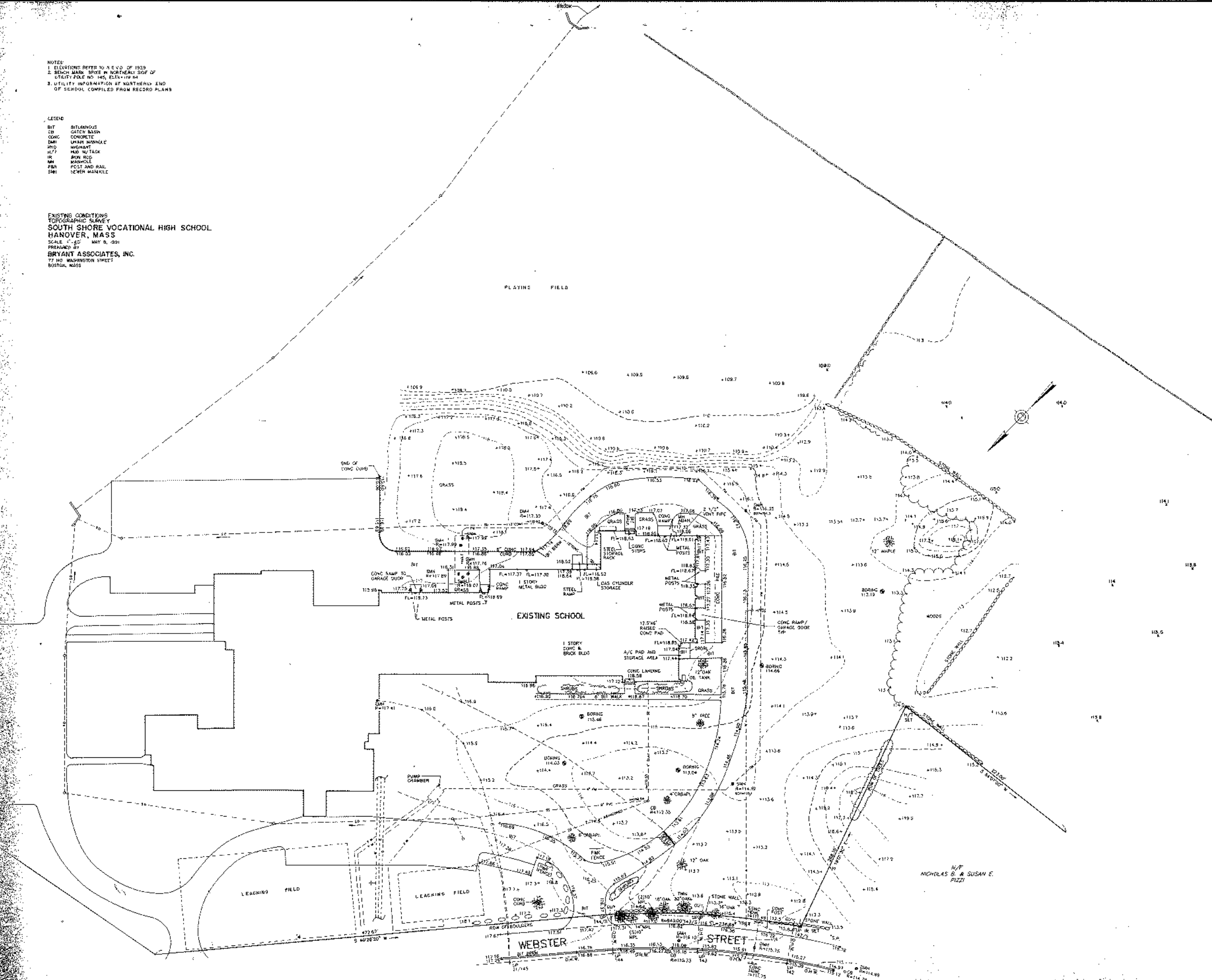


HVAC UNIT ROOF CURB DETAIL  
H.T. 5

NOTES:  
 1. ELEVATIONS REFER TO N.E.V.D. OF 1929  
 2. BENCH MARK SPIKE IN NORTHEAST CORNER OF  
 UTILITY POLE NO. 145, 525'±10'±4"  
 3. UTILITY INFORMATION AT NORTHERLY END  
 OF SCHOOL COMPILED FROM RECORD PLANS

LEGEND  
 BIT BITUMENOUS  
 CB GUTTER BASIN  
 CONC CONCRETE  
 DMF DRAIN MANHOLE  
 PVD PERFORATED  
 H/T HOLE IN TOP  
 IR IRON PIPE  
 M/M MANHOLE  
 P&T P&T AND RAIL  
 SMI SLOPED MANHOLE

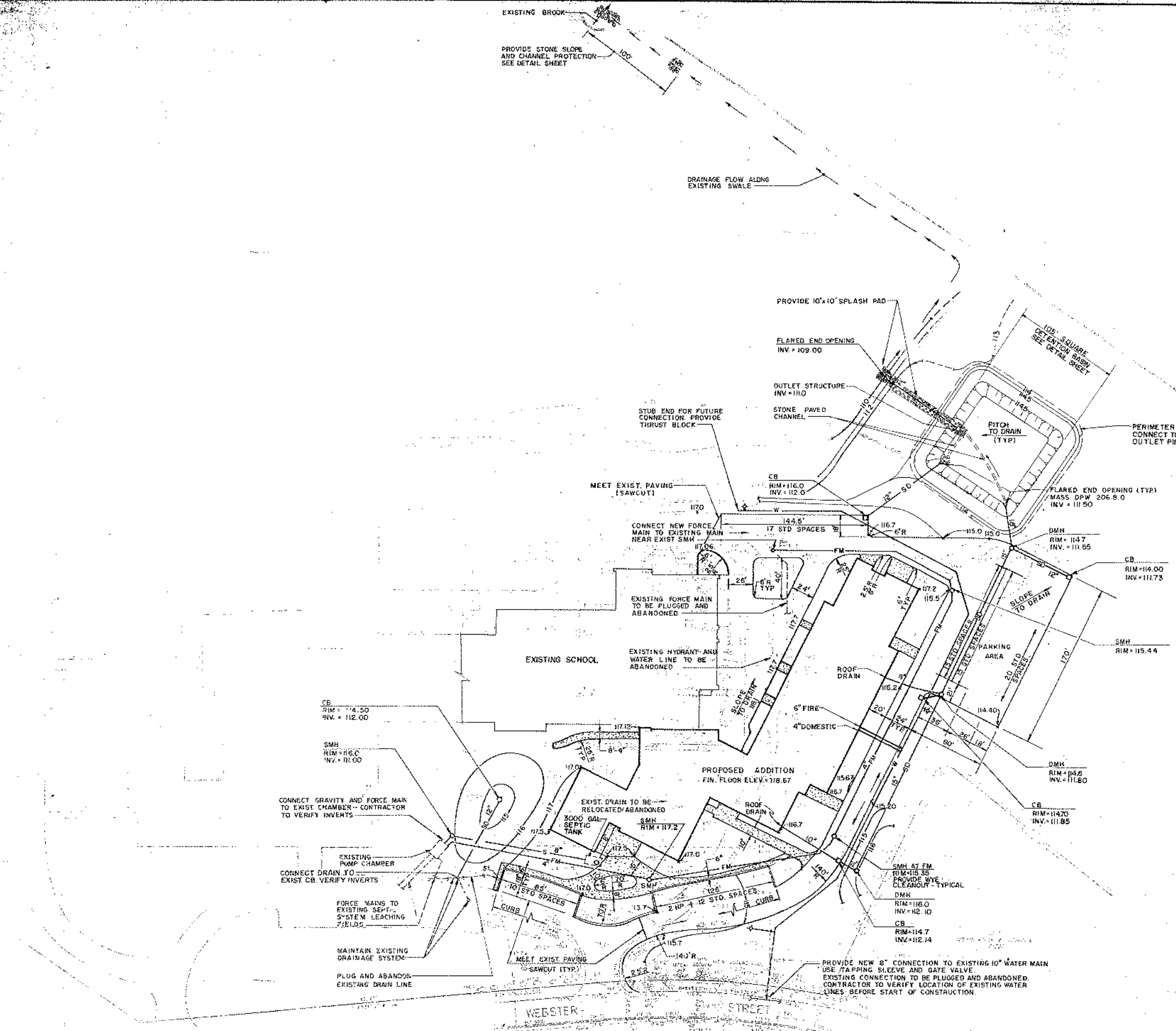
EXISTING CONDITIONS  
 TOPOGRAPHIC SURVEY  
 SOUTH SHORE VOCATIONAL HIGH SCHOOL  
 HANOVER, MASS  
 SCALE: 1" = 20' HWT 8, 024  
 PREPARED BY  
 BRYANT ASSOCIATES, INC.  
 17 NO WASHINGTON STREET  
 BOSTON, MASS



ADDITIONS AND ALTERATIONS TO THE  
 SOUTH SHORE REGIONAL VOCATIONAL  
 TECHNICAL HIGH SCHOOL  
 HANOVER MASSACHUSETTS

EXISTING CONDITIONS PLAN  
 8782.00  
 1-1



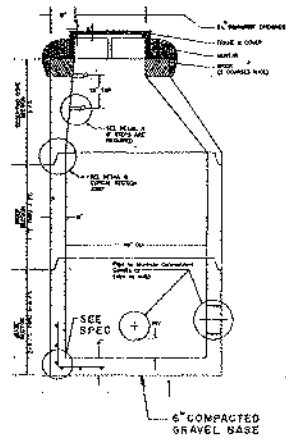


- NOTES**
- 1 THIS PLAN DEVELOPED FROM SURVEY BY BRYANT ASSOCIATES APRIL 1991 AND FROM RECORD PLANS.
  - 2 ALL WATER, SEWER AND STORM DRAINAGE CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE TOWN OF HANOVER.
  - 3 CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UTILITIES AT PROPOSED UTILITY CROSSINGS WITH TEST PITS.
  - 4 PROVIDE THRUST BLOCKS AT ALL BENDS AT WATER LINE AND SANITARY FORCE MAIN.
  - 5 PIPES MATERIALS:  
 WATER - DUCTILE IRON - CEMENT LINED CLASS 52  
 SAN SEWER - PVC SDR 35  
 STORM DRAIN - RCP CLASS III  
 FORCE MAIN - DUCTILE IRON - CEMENT LINED CLASS 52
  - 6 PARKING STALL DIMENSION:  
 HANDICAPPED 12' x 18'  
 STANDARD 8.5' x 18'
  - 7 FORCE MAIN TO HAVE 4' MIN COVER
  - 8 SEPTIC TANK OUTLET INVERT TO BE DETERMINED IN FIELD BY ENGINEER.

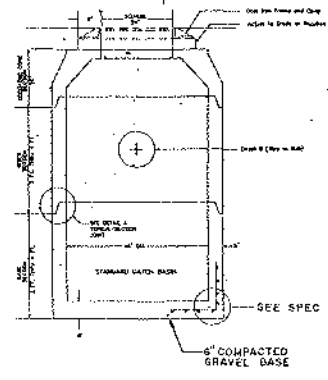
**LEGEND**

CB	CATCH BASIN
SD	DRAIN
DMH	DRAIN MANHOLE
- 10 - - -	EXISTING CONTOURS
- 112 - - -	PROPOSED CONTOURS
- 15x5	SPOT GRADES
- - - - -	DIRECTION OF FLOW
- D - - -	STORM DRAIN
- FM - - -	FORCE MAIN
- W - - -	WATER
- SMH - - -	SEWER MANHOLE
⊕	HYDRANT
⊕	GATE VALVE (IN WATER LINE)
[Pattern]	NEW BIT. CONCRETE PAVING
[Pattern]	NEW CONCRETE PAVING

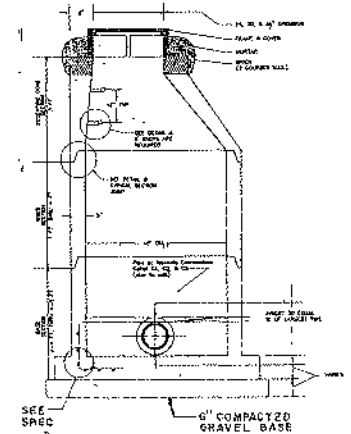




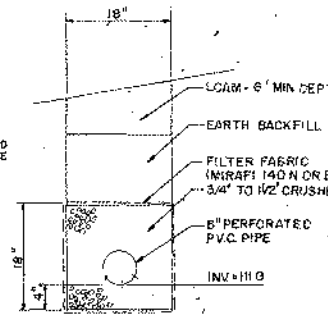
**DRAIN MANHOLE**  
N.T.S.  
(MASS DPW STD 202.40)



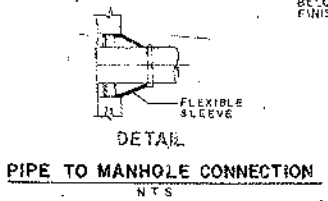
**CATCH BASIN**  
N.T.S.  
(MASS DPW STD 201.40)



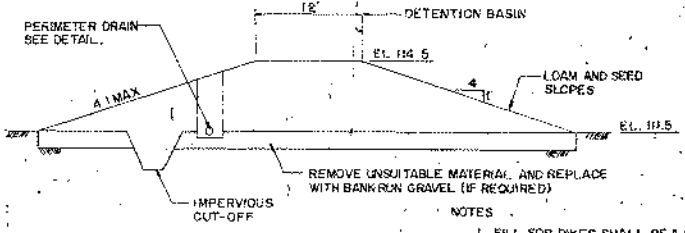
**SANITARY MANHOLE**  
N.T.S.  
(MASS DPW STD 202.40)



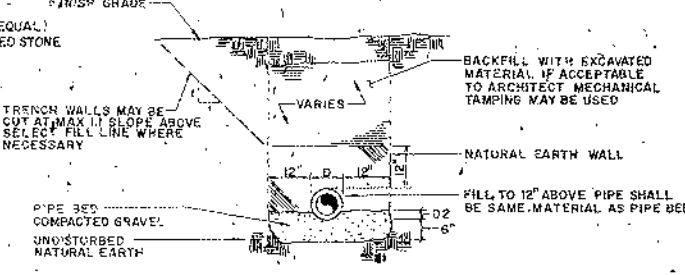
**DETAIL - PERIMETER DRAIN**  
N.T.S.



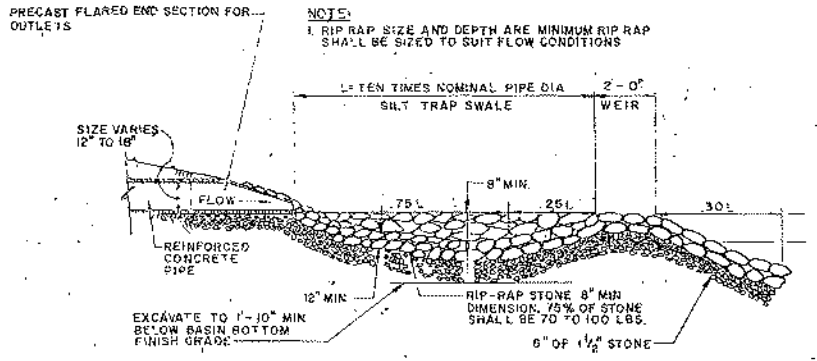
**PIPE TO MANHOLE CONNECTION**  
N.T.S.



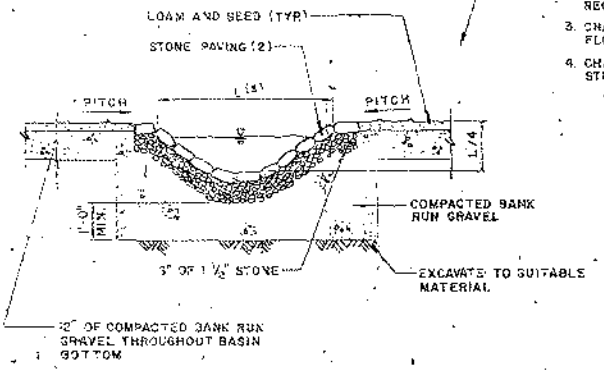
**SECTION AT DETENTION BASIN**  
N.T.S.



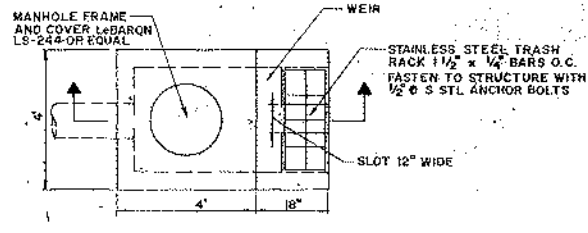
**TYPICAL TRENCH SECTION**  
N.T.S.



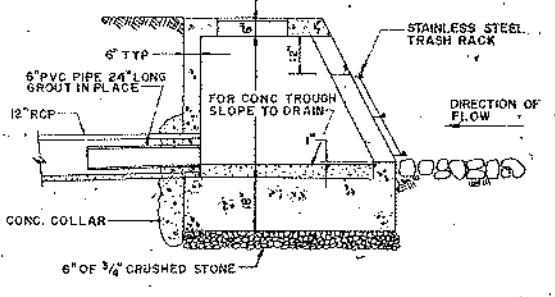
**SILT TRAP SWALE SECTION**  
N.T.S.



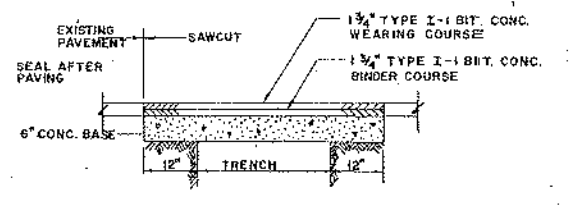
**TYPICAL CHANNEL**  
N.T.S.



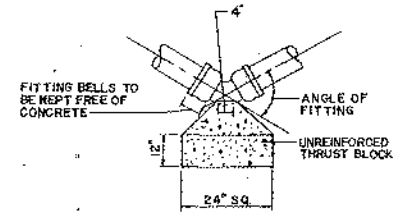
**PLAN**  
N.T.S.



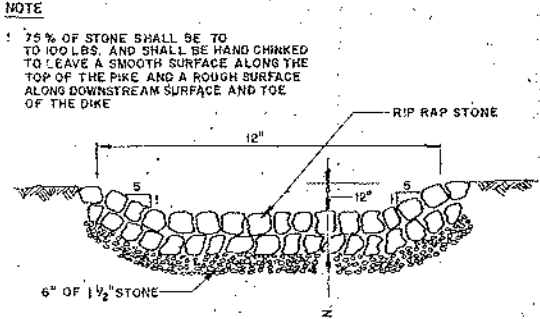
**SECTION**  
N.T.S.



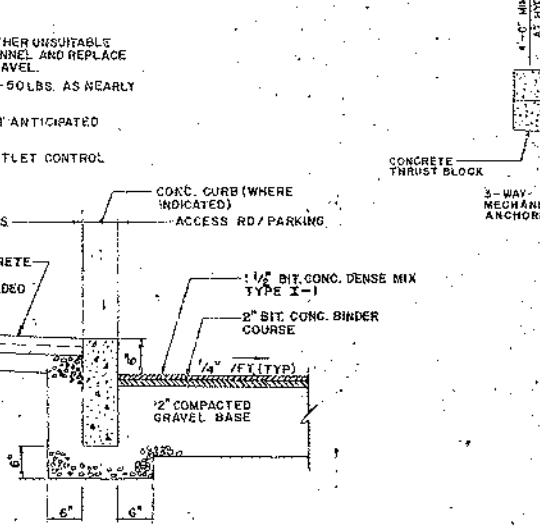
**PAVEMENT PATCH DETAIL**  
N.T.S.



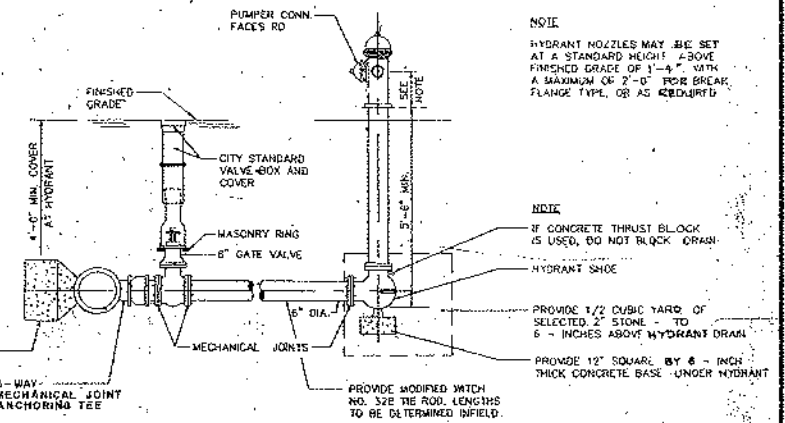
**THRUST BLOCK - TYPICAL**  
N.T.S.



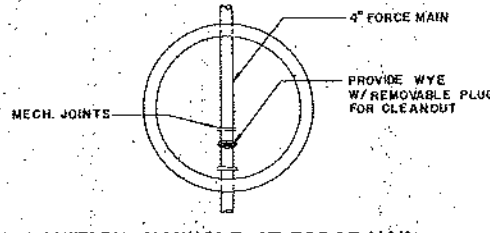
**SPILLWAY DETAIL**  
N.T.S.



**PAVING DETAIL**  
N.T.S.



**TYPICAL FIRE HYDRANT CONNECTION**



**SANITARY MANHOLE AT FORCE MAIN**  
N.T.S.

NOTES:  
1. FILL FOR DIKES SHALL BE A COMBINATION OF GRAVEL, SAND, AND SILT TO INSURE WATER-TIGHTNESS AND STABILITY.

NOTES:  
1. BACKFILL WITH EXCAVATED MATERIAL IF ACCEPTABLE TO ARCHITECT. MECHANICAL TAMPING MAY BE USED.

TRENCH WALLS MAY BE CUT AT MAX 1:1 SLOPE ABOVE SELECT FILL LINE WHERE NECESSARY.

PIPE BED COMPACTED GRAVEL UNDISTURBED NATURAL EARTH.

PIPE BED COMPACTED GRAVEL UNDISTURBED NATURAL EARTH.

PRECAST FLARED END SECTION FOR OUTLETS.

NOTE:  
1. RIP RAP SIZE AND DEPTH ARE MINIMUM RIP RAP SHALL BE SIZED TO SUIT FLOW CONDITIONS.

EXCAVATE TO 1'-10" MIN BELOW BASIN BOTTOM FINISH GRADE.

NOTE:  
1. REMOVE ALL LOAM, PEAT OR OTHER UNSUITABLE MATERIALS IN ZONE UNDER CHANNEL AND REPLACE WITH COMPACTED BANK RUN GRAVEL.  
2. 75% OF STONE SHALL BE 30-50 LBS. AS NEARLY RECTANGULAR AS POSSIBLE.  
3. CHANNEL TO BE SIZED TO SUIT ANTICIPATED FLOW CONDITIONS.  
4. CHANNEL TO BE SLOPED TO OUTLET CONTROL STRUCTURE.

NOTE:  
1. 75% OF STONE SHALL BE TO 100 LBS. AND SHALL BE HAND CHIPPED TO LEAVE A SMOOTH SURFACE ALONG THE TOP OF THE PIKE AND A ROUGH SURFACE ALONG DOWNSTREAM SURFACE AND TOE OF THE DIKE.

NOTE:  
HYDRANT NOZZLES MAY BE SET AT A STANDARD HEIGHT ABOVE FINISHED GRADE OF 1'-4" WITH A MAXIMUM OF 2'-0" FOR BREAK FLANGE TYPE, OR AS REQUIRD.

NOTE:  
IF CONCRETE THRUST BLOCK IS USED, DO NOT BLOCK GRASS.

PROVIDE 1/2 CUBIC YARD OF SELECTED STONE - TO 6 INCHES ABOVE HYDRANT DRAIN.

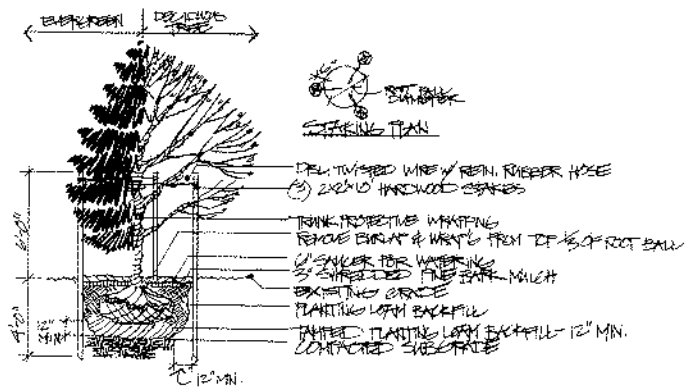
PROVIDE 12" SQUARE BY 8" THICK CONCRETE BASE UNDER HYDRANT.



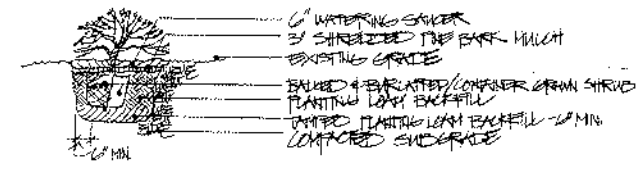




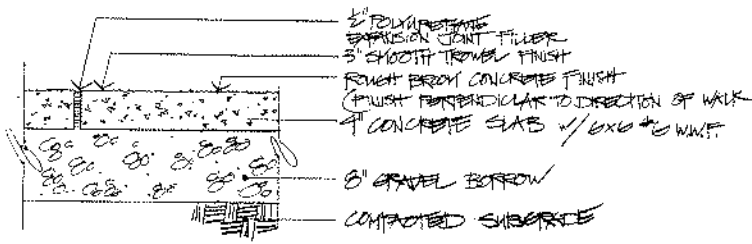
# MASTER PLANT SCHEDULE



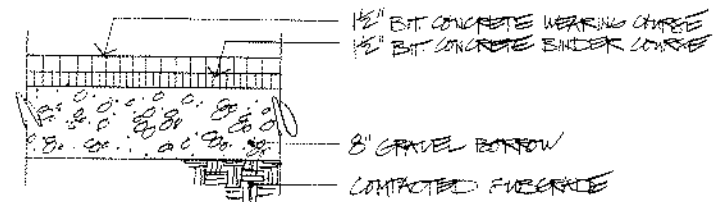
**1 EVERGREEN/TREE PLANTING DETAIL**  
NOT TO SCALE



**2 SHRUB PLANTING DETAIL**  
NOT TO SCALE

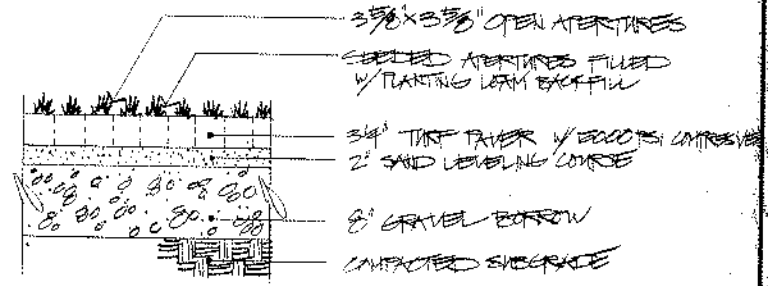


**3 CONCRETE WALKWAY DETAIL**  
NOT TO SCALE

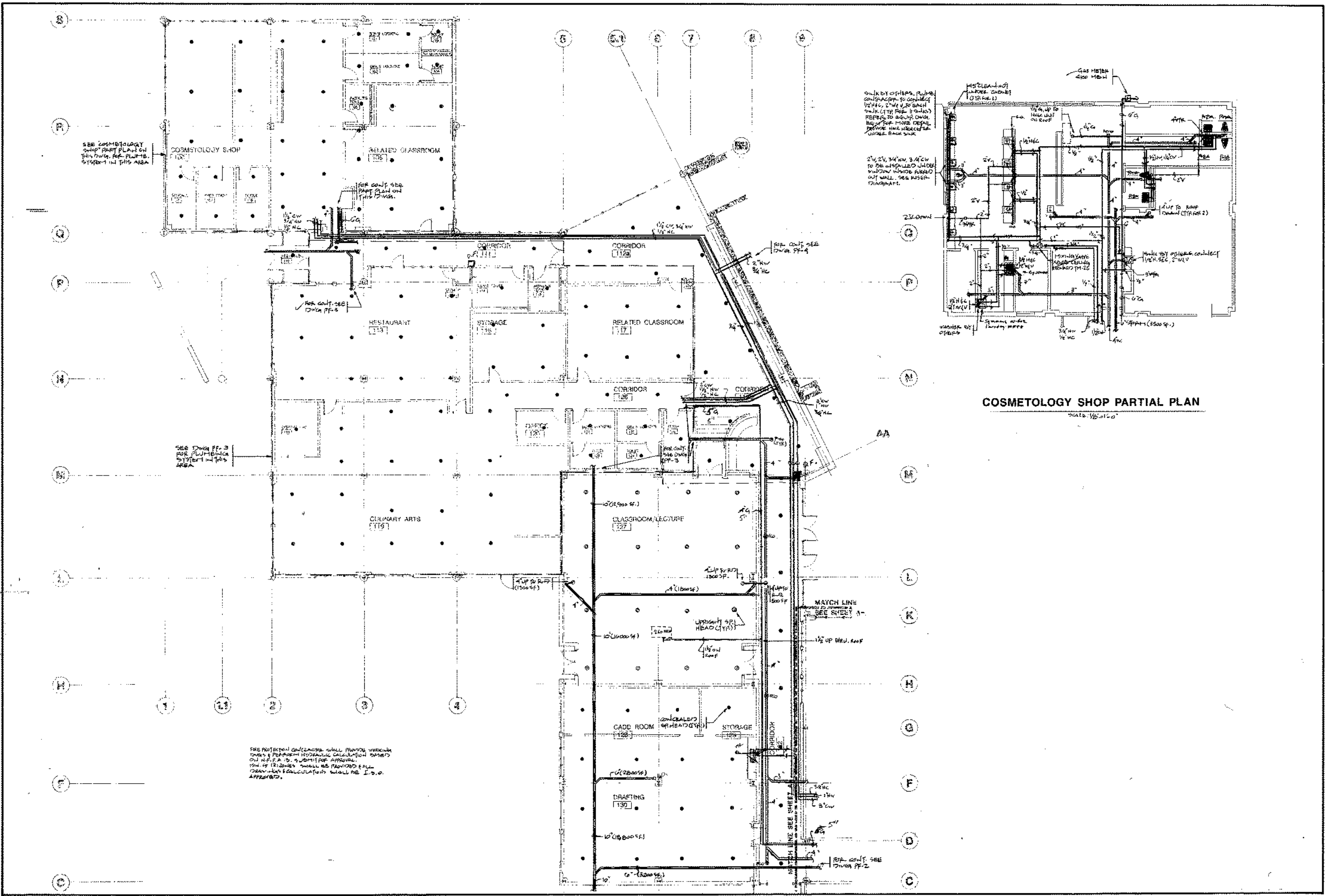


**4 BITUMINOUS CONCRETE WALKWAY DETAIL**  
NOT TO SCALE

SYMBOL	QUANTITY	BOTANICAL/COMMON NAME	SEE REMARKS
TREES			
AP	17	Acer platanoides schvedleri nigra/	
BA	1	Crimson King Maple	2.5/2.0 cal. specimen
CK	2	Celtis occidentalis clump/Clump Hackberry Birch	12/16 cal.
CTH	13	Cornus kousa/Kousa Dogwood	7/8 cal.
		Quercus bicolor/White Oak	
NF	2	Nyctaginia flexilis/Flowering Crabapple	2.5/2 cal. specimen
NO	4	Nyctaginia flexilis/Flowering Crabapple	2.5/2 cal. specimen
PN	14	Prunus nigra/Black Cherry	4/10 cal.
PS	15	Pinus strobus/White Pine	8/10 cal.
TOX	3	Thuja occidentalis nigra/Dark American Arborvitae	6/8 cal. specimen
SHRUBS			
AF	3	Azalea speciosa/Spotted Azalea	18/24 cal.
AS	13	Azalea speciosa/Spotted Azalea	18/24 cal.
BTA	6	Berberis thunbergii/Berberis	18/24 cal.
CDG	11	Cotoneaster dammeri/Corn Beauty Cotoneaster	12/15 cal.
ES	9	Euonymus alatus/Spreading Burning Bush	24/30 cal.
JH	6	Juniperus horizontalis/Horizontal Juniper	18/24 cal.
PC	2	Prunus cistena/Purple-leaf Sand Cherry	7 cal. cal.
PCA	12	Prunus cistena/Purple-leaf Sand Cherry	7 cal. cal.
RFJM	2	Rhododendron fortunei/White Flowering Rhododendron	18/24 cal.
RS	2	Rhododendron fortunei/White Flowering Rhododendron	18/24 cal.
TD	4	Taxus canadensis/Canadian Hemlock	18/24 cal.
VPTM	1	Viburnum acerifolium/Black Viburnum	24/30 cal.
VINES			
PT	2	Parthenocissus vitacea/Boston Ivy	1 specimen



**5 TURF PAVER DETAIL**  
NOT TO SCALE

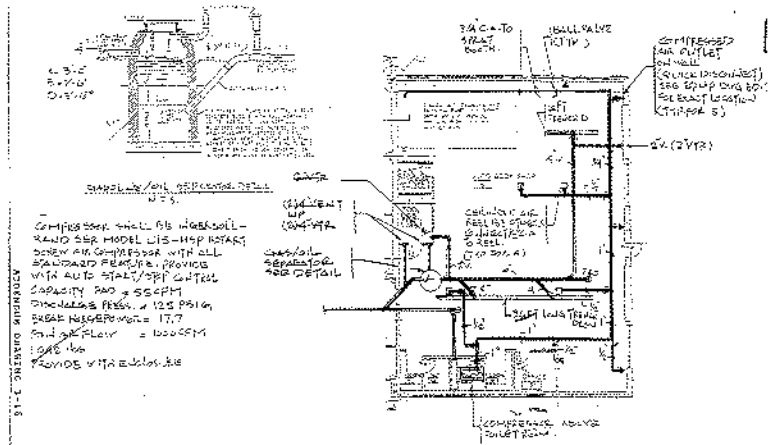


**COSMETOLOGY SHOP PARTIAL PLAN**  
DATE: 10-15-92

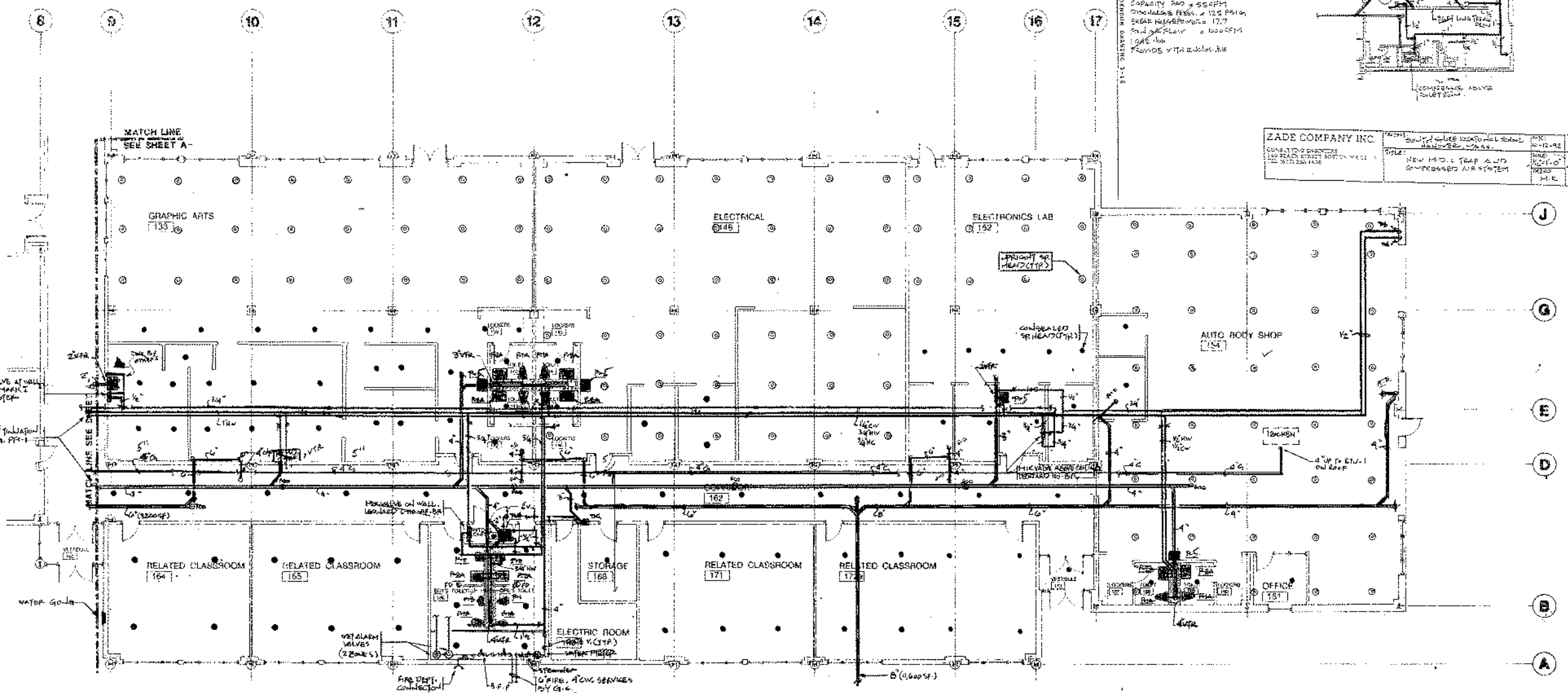
FIRE PROTECTION CONTRACTOR SHALL PROVIDE WORKING DRAWING & PERFORM HYDRAULIC CALCULATION BASED ON N.F.P.A. 136. SUBMIT FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

<p><b>ZADE COMPANY INC.</b> CONSTRUCTION ENGINEERS 140 BEACH STREET BOSTON, MA 02111 TEL: (617) 530-4400</p>		<p><b>HKT Architects Inc.</b> 30 Medford Street Salem, Massachusetts 02470 617-746-6640 Fax 770-8471</p>	<p><b>ADDITIONS AND ALTERATIONS TO THE SOUTH SHORE REGIONAL VOCATIONAL TECHNICAL HIGH SCHOOL HANOVER, MASSACHUSETTS</b></p>	<p><b>PLUMB.&amp;FIRE PROT. FLOOR PLAN - PART 'A'</b></p>	<p>DRAWN: [Signature] CHECKED: [Signature] DATE: 9-15-92 SCALE: 1/8" = 1'-0"</p>	<p><b>17-1</b></p>
--	--	--	---	---	--	--------------------





ZADE COMPANY INC.		DATE	NO. 12-92
CONSULTING ENGINEERS		TITLE	NEW HDG. TRAP AND COMPRESSED AIR SYSTEM
140 BEACON STREET, BOSTON, MA 02111		PROJECT NO.	101-0-0000
TEL. (617) 338-6400		DESIGNED BY	M.E.



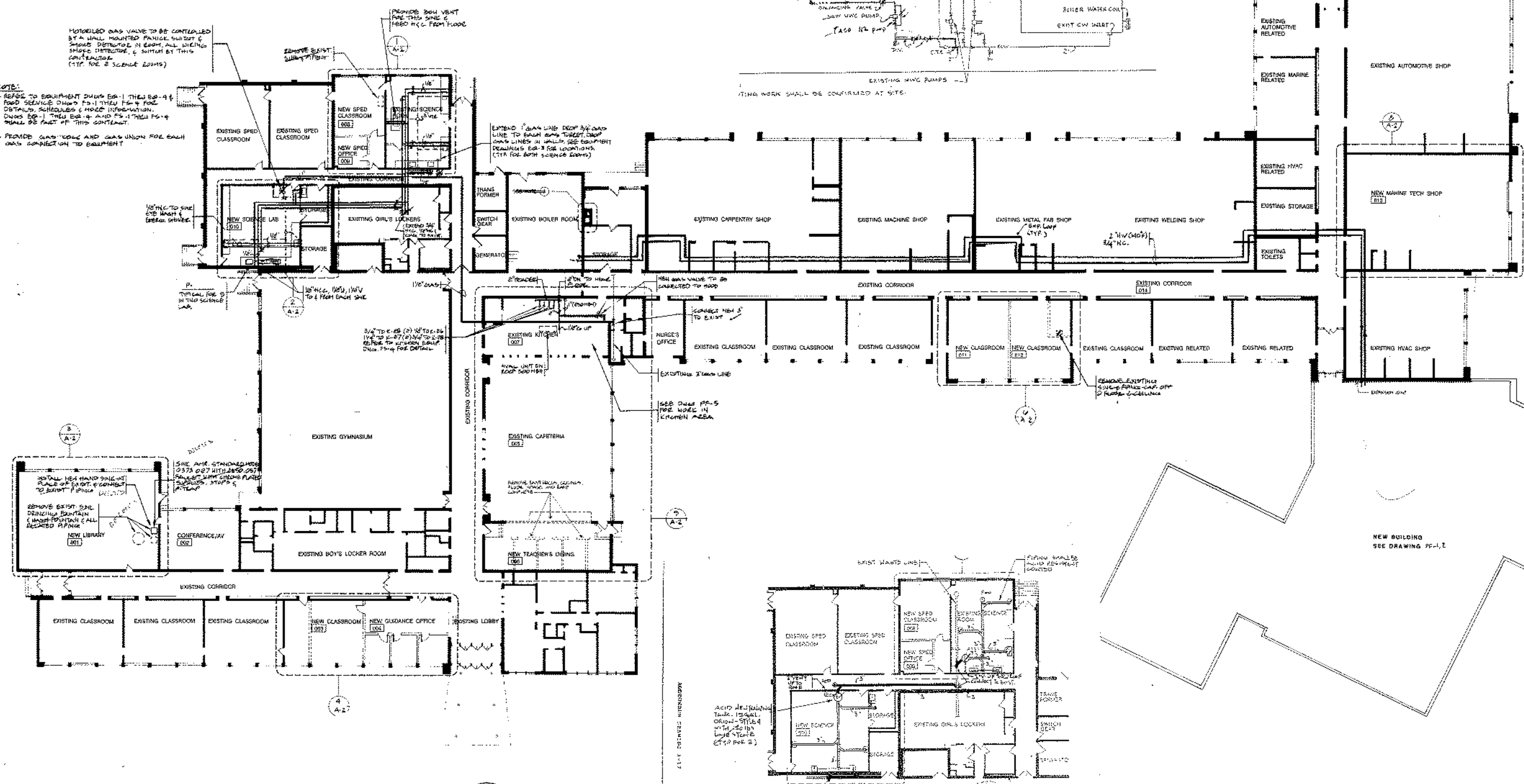
<b>ZADE COMPANY INC.</b> CONSULTING ENGINEERS 140 BEACON STREET, BOSTON, MA 02111 TEL. (617) 338-6400		<b>HKY Architects Inc.</b> 25 Medford Street Somerville, Massachusetts 02145 Tel: 617-776-8545 Fax: 771-2874	<b>ADDITIONS AND ALTERATIONS TO THE          SOUTH SHORE REGIONAL VOCATIONAL          TECHNICAL HIGH SCHOOL</b> HANOVER, MASSACHUSETTS		<b>PLUMB. &amp; FIRE PROT. FLOOR PLAN - PART 'B'</b>		<b>PI-2</b>
			DRAWN	DATE 9-15-92	CHECKED	SCALE 1/8" = 1'-0"	



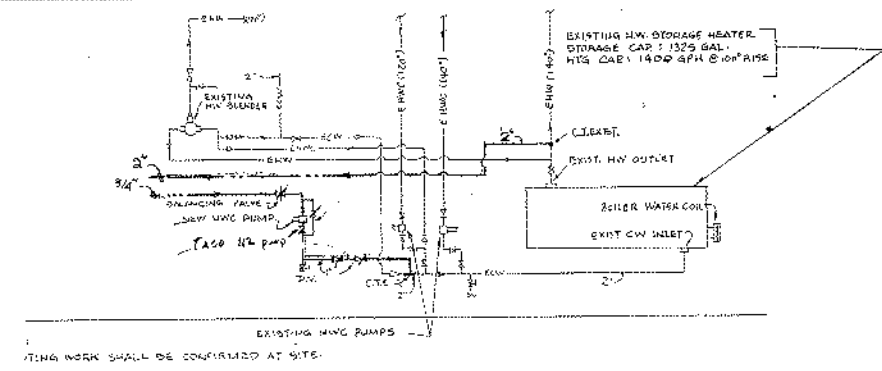


MODELLED GAS VALVE TO BE CONTROLLED BY A WALL MOUNTED PANIC SWITCH & SMOKE DETECTOR IN ROOM. ALL WIRING SHALL BE PART OF THIS CONTRACT (TYP. FOR SCIENCE ROOMS)

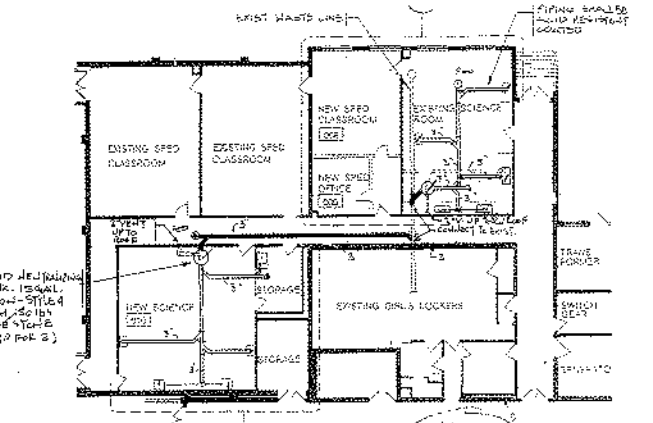
NOTE:  
1. REFER TO EQUIPMENT DATA SHEETS FOR ALL EQUIPMENT FOR SCHEDULING & MORE INFORMATION.  
2. PROVIDE GAS VALVE AND GAS UNION FOR EACH GAS CONNECTION TO EQUIPMENT



**EXISTING BUILDING FIRST FLOOR PLAN**  
SCALE: 1/16" = 1' - 0"



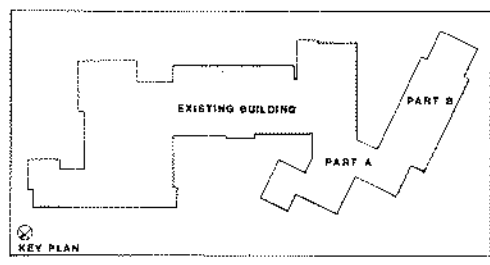
EXISTING HVAC PUMPS  
THIS WORK SHALL BE CONFIRMED AT SITE.



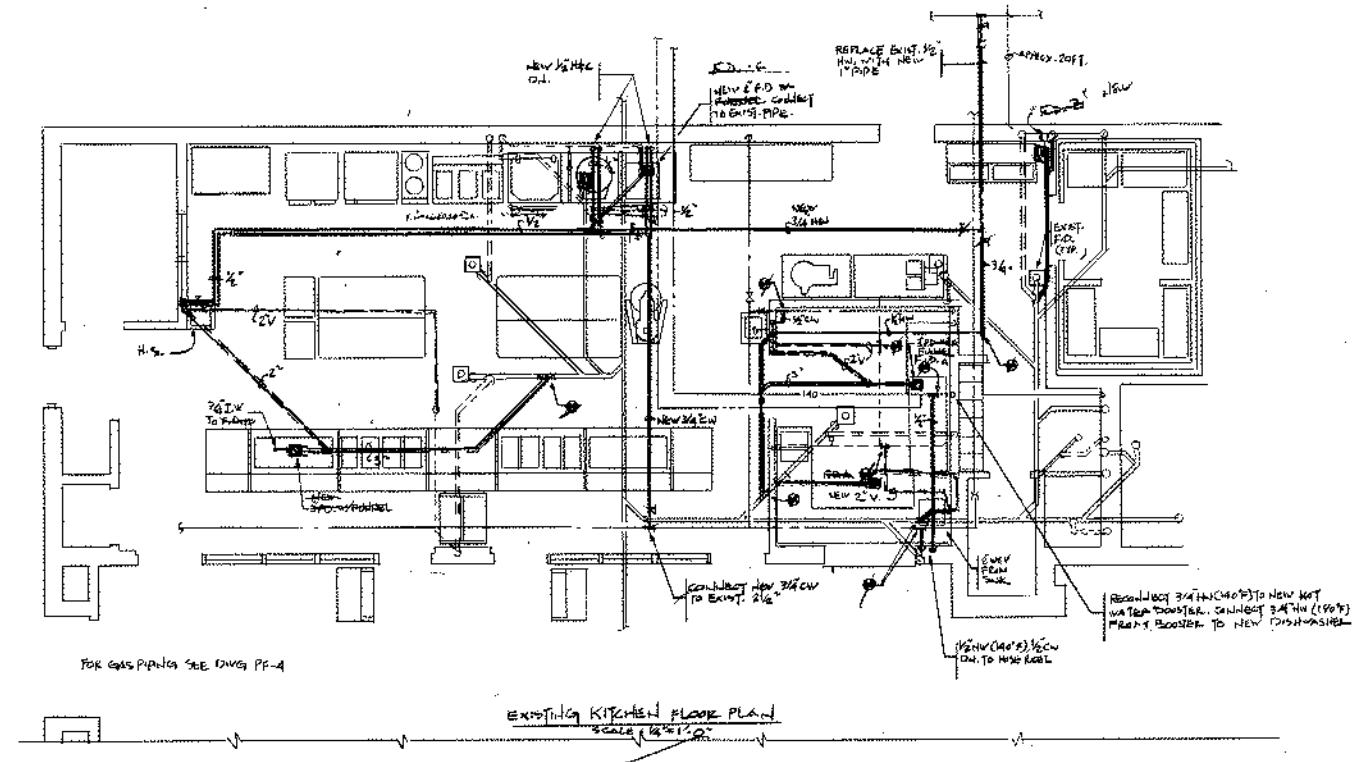
**ZADE COMPANY INC.**  
CONSULTING ENGINEERS  
140 BEACH STREET, BOSTON, MA 02111  
TEL: 617-338-4400

**PROJECT:** SOUTH SHORE VOCATIONAL SCHOOL  
HANOVER, MA  
**TITLE:** REVISION TO WASTE PIPING  
IN THE SCIENCE ROOMS

DATE: 5-15-92  
SCALE: 1/16" = 1' - 0"



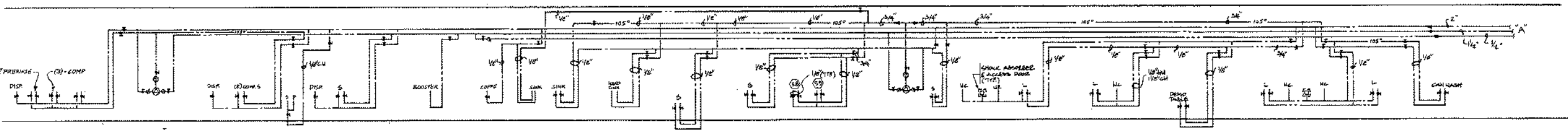
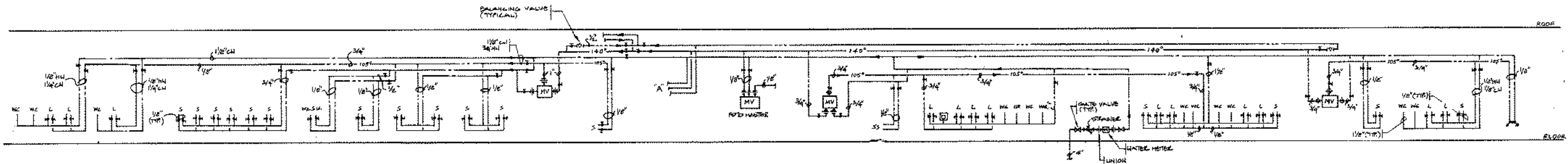
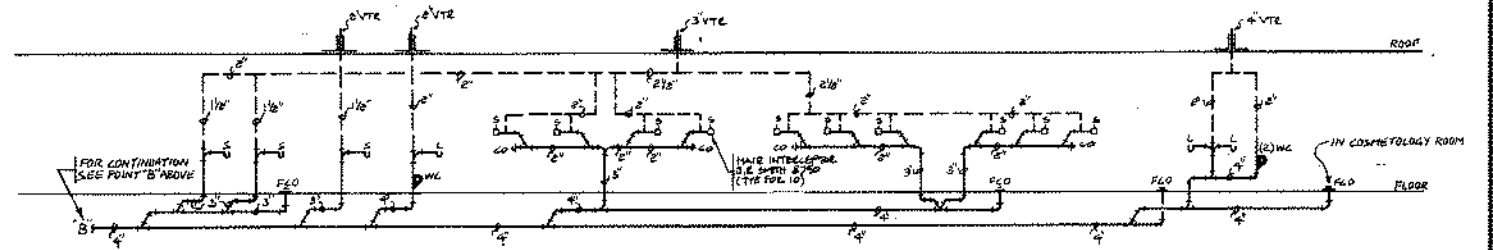
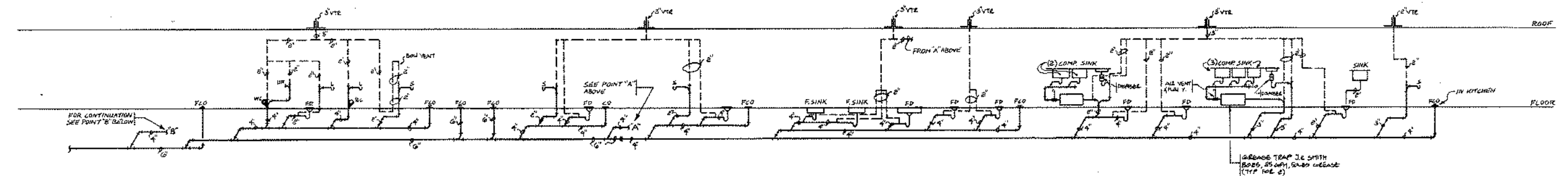
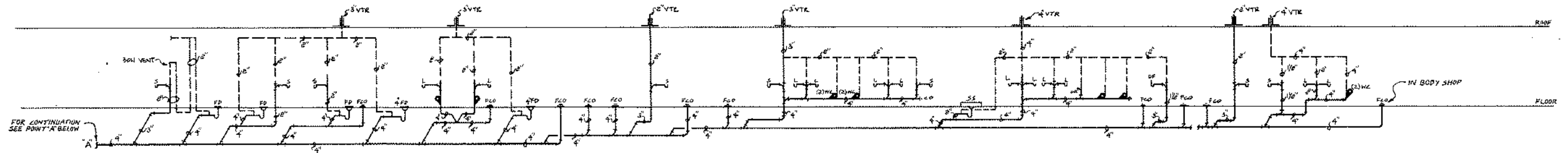
Add #3  
 ✓ Discontinue ALL KIT. Equipment, Removal by G.C. AFTER NEW RUDIN'S Installation. Retain ALL KIT. Equip.



FOR GAS PIPING SEE DWG. PF-4

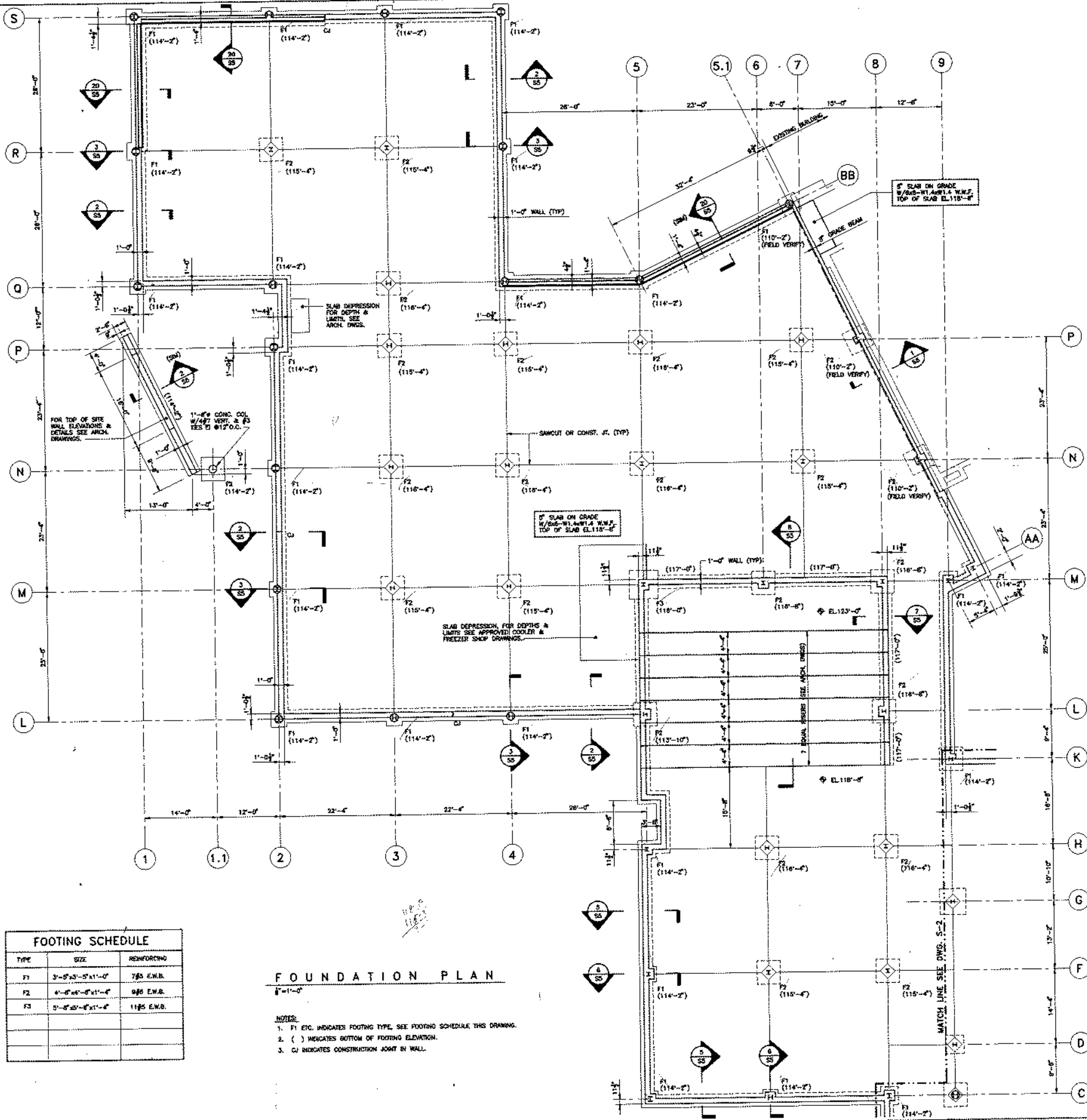
EXISTING KITCHEN FLOOR PLAN  
 SCALE 1/8" = 1'-0"

<p><b>ZADE COMPANY INC.</b>          CONSULTING ENGINEERS          140 BEALIN STREET, BOSTON, MA 02111          TEL. (617) 452-8400</p>		<p><b>NBT Architects Inc.</b>          35 Bedford Street          Boston, Massachusetts 02145          7-2776-8515          Fax 774-2574</p>		<p>ADDITIONS AND ALTERATIONS TO THE  <b>SOUTH SHORE REGIONAL VOCATIONAL          TECHNICAL HIGH SCHOOL</b>          HANOVER, MASSACHUSETTS</p>		<p><b>PLUMB. &amp; FIRE PROT. PART. PLANS</b>          DRAWN M.          CHECKED Hk          DATE 7-15-92          SCALE AS SHOWN</p>	<p><b>PI-5</b></p>
---	--	--	--	--	--	---	--------------------



<p><b>ZADE COMPANY INC.</b> CONSULTING ENGINEERS 140 BEACH STREET, SCOTTON, MA 01111 TEL: (617) 535-4440</p>		<p><b>HCT Architects Inc.</b> 35 Bedford Street Somerville, Massachusetts 02147 617-764-6446 Fax 776-9672</p>		<p>ADDITIONS AND ALTERATIONS TO THE <b>SOUTH SHORE REGIONAL VOCATIONAL TECHNICAL HIGH SCHOOL</b> HANOVER, MASSACHUSETTS</p>	<p><b>PLUMBING RISERS</b> DRAWN: J CHECKED: MZ</p>	<p>DATE: 9/15/92 SCALE: AS NOTED</p>	<p>PI-6</p>
--	--	---	--	---	--	--	-------------





FOOTING SCHEDULE		
TYPE	SIZE	REINFORCING
F1	3'-5" x 5'-5" x 1'-0"	7#5 E.W.B.
F2	4'-0" x 4'-0" x 1'-0"	9#6 E.W.B.
F3	5'-0" x 2'-0" x 1'-0"	11#5 E.W.B.

**FOUNDATION PLAN**

- NOTES:
- F1 ETC. INDICATES FOOTING TYPE, SEE FOOTING SCHEDULE THIS DRAWING.
  - ( ) INDICATES BOTTOM OF FOOTING ELEVATION.
  - CJ INDICATES CONSTRUCTION JOINT IN WALL.

**GENERAL NOTES:**

Use structural drawings in conjunction with project specifications, and with architectural, mechanical, electrical, plumbing and site drawings. Consult these drawings for locations and dimensions of pipes, openings, windows, doors, registers, sleeves, depressions, and other details not shown on the structural drawings.

Sections and details shown shall be considered typical for all similar conditions.

Contractor shall verify all conditions in the field and shall take all necessary field measurements.

**SCALE:**

Commonwealth of Massachusetts State Building Code.

**DESIGN LIVE LOADS:**

Roof: 30 lbs./sq. ft. plus drifting allowance.  
 Wind Zone 3 Exposure C.  
 Seismic: In accordance with Section 1113 of the above Code.

**FOUNDATIONS:**

Footings shall bear on natural, undisturbed fine sand having a minimum bearing capacity of 2.0 (two) tons per sq. ft. or on structural fill compacted to 95% of maximum dry density having a minimum bearing capacity of 2.5 tons per sq. ft.

Bottom of footing excavations shall be inspected and the adequacy of bearing material must be determined by a qualified geotechnical engineer before any concrete is placed.

Place slab-on-grade on structural fill compacted to 95% of maximum dry density having a minimum bearing capacity of 2.5 tons per sq. ft.

Place backfill simultaneously on both sides of foundation walls to the grades indicated.

For location of pipes and conduits, see site, plumbing and electrical drawings.

**CONCRETE:**

Concrete shall be proportioned, mixed and placed in accordance with ACI 318, "Building Code Requirements for Reinforced Concrete," and ACI 301, "Specifications for Structural Concrete for Buildings."

Minimum compressive strength of concrete at the end of 28 days shall be 3000 psi for all concrete.

Concrete shall not be cast in water or on frozen ground.

Provide pads under equipment where required, reinforced with #4 bars at 12 inch spacing each way, top and bottom.

Provide steel sleeves where pipes pass through concrete.

**REINFORCING STEEL:**

All detailing, fabrication and placing of reinforcing steel shall be in accordance with the latest ACI 318, "Details and Detailing of Concrete Reinforcement."

Reinforcing bars shall be new 60ksi steel conforming to ASTM A615, Grade 60. Clear concrete cover over bars shall be 3 inches for footings, 2 inches for walls and slabs, and 1 inch for slabs.

All slab-on-grade, platforms, sidewalks, etc. shall be reinforced with 6 X 5 - W 1.4 X W 1.4 w.o.f. unless otherwise noted.

Welded wire fabric shall conform to ASTM A185. Place welded wire fabric 1 inch from top of concrete unless otherwise noted.

**STRUCTURAL STEEL:**

Fabricate and erect all structural steel in accordance with the "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," and the "Code of Standard Practice of the AISC: Welding shall conform to the 'Structural Welding Code' of the American Welding Society."

Structural steel shapes and plates shall conform to ASTM A36, unless otherwise noted.

Structural Tube members shall be ASTM A500, Grade B.

All bolted connections shall be made with 3/4 inch diameter high strength ASTM A325-X or ASTM A325-F bolts. One end of all contact surfaces to be connected with friction bolts.

Anchor bolts shall be ASTM A307 bolts of the diameters and dimensions shown, unless otherwise noted.

Welding electrodes shall be low hydrogen type and conform to AWS A5.1 E70XX series with proper rod to produce optimum weld.

Unless otherwise noted, provide the following details for each 4 inch thickness of masonry wall, with 8 inch bearing at each end:

Over openings up to 4 ft. 0 in.	L 4 X 3-1/2 X 5/16
Over openings up to 5 ft. 0 in.	L 5 X 3-1/2 X 5/16
Over openings up to 6 ft. 0 in.	L 6 X 3-1/2 X 5/16
Over openings up to 8 ft. 4 in.	L 8 X 4 X 1/2

All details in exterior masonry walls shall be hot-dip galvanized.

Provide details for larger openings as shown on the structural drawings.

Provide all angles, plates, anchors, bolts, girts, etc. shown on the architectural drawings.

All beams taking the place of joists shall receive the same camber as the adjacent joists.

Provide 3/8 inch minimum fitted web stiffeners for all beams bearing on columns.

Unless otherwise noted, all bolted connections with slotted holes shall be field welded with 1/4 inch fillet welds after final field adjustment.

**STEEL WEB STEEL JOISTS:**

Design, detail, fabricate and erect all steel joists and long-span steel joists in accordance with the latest Standard Specifications of the Steel Joist Institute.

Weld joists to steel supports with two 1/4 inch fillet welds at each end, 2 inches long, on each side of each joist bearing duct. Weld long-span joists to steel supports with two 1/4 inch fillet welds at each end, 3-1/2 inches long, on each side of each joist bearing plate.

Handle, store and erect joists with care. Dumping joists on the ground will not be permitted. Damaged joists will be rejected.

Hangers for ducts, pipes, hung equipment, etc. must be attached to joists at panel points only. Refer to Typical Details.

**STEEL ROOF DECKING:**

Roof decking shall be not less than 1-1/2 inches deep, Type B of the grades shown on the drawings or manufactured by United Steel Deck, Inc., or approved equal.

Fabricate and install decking in three span lengths or longer, except where one or two knee bracing are necessitated due to interruptions of roof openings.

Weld shears to steel supports as specified using 3/8 inch or larger flange wide. Fasten side joints together by No. 8 self tapping screws or welds at midpoint between supports.

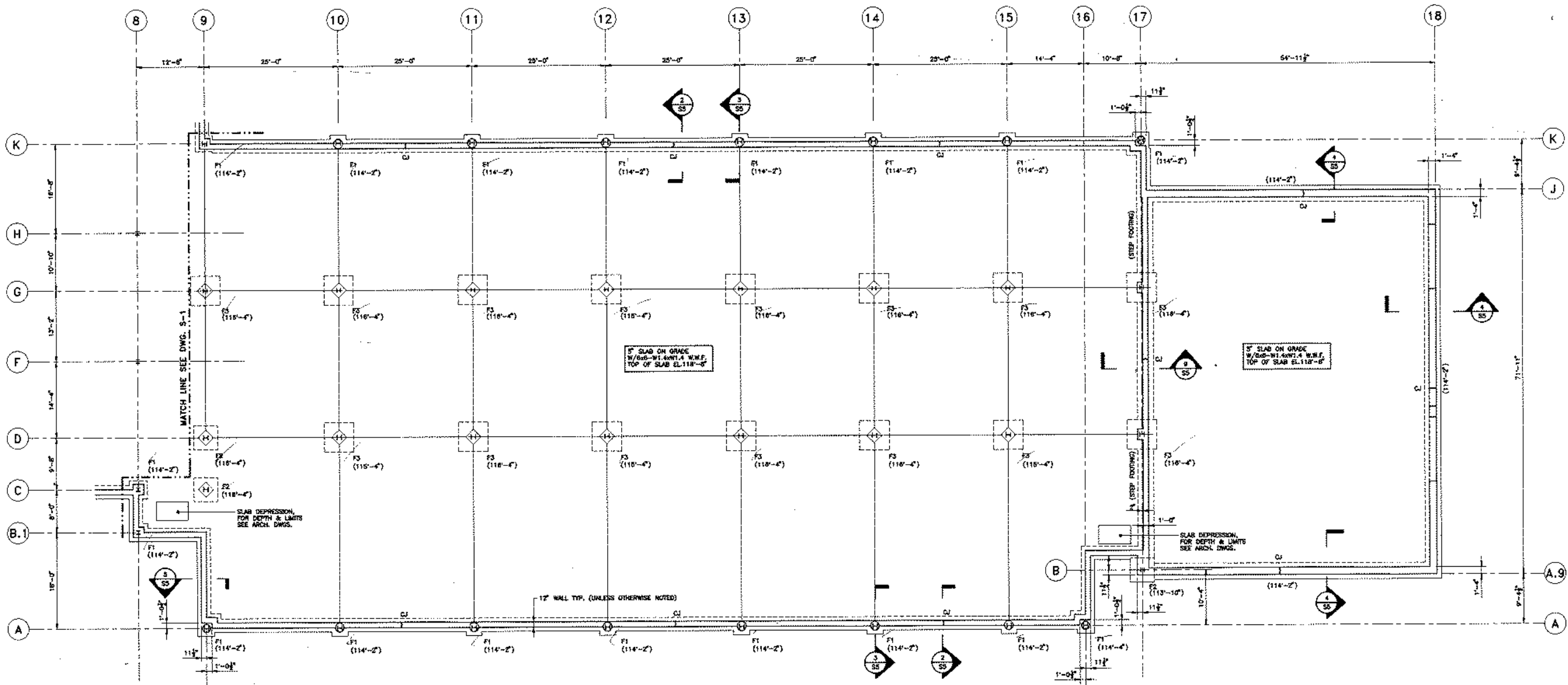
**MASONRY:**

Concrete masonry walls shown on the structural drawings shall be erected as load bearing concrete masonry. Conform with the National Concrete Masonry Association Specification for the Design and Construction of Load-Bearing Concrete Masonry for masonry, methods and workmanship not otherwise shown for these walls.

Masonry shall have a minimum compressive strength of  $f_m = 1500$  psi.

Install vertical reinforcing bars and horizontal joint reinforcing in walls as shown on the drawings. Install vertical bars in full height lengths. Install additional 2 #6 vertical bars at each side of openings.

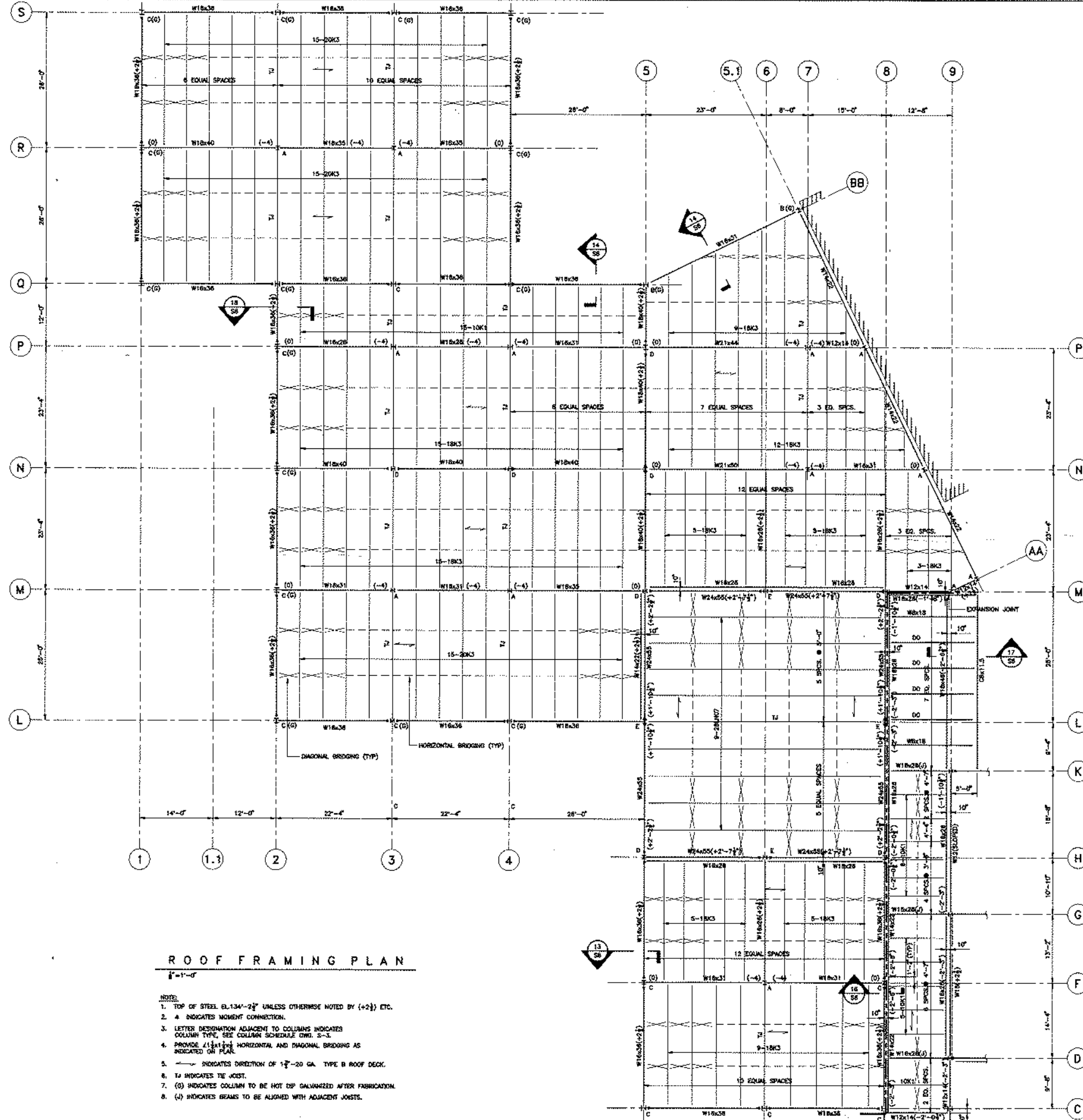
Align cores of walls vertically to provide for proper installation of vertical reinforcing bars and grouting. Fill all cores containing reinforcing bars and bond beams completely with high strength Portland Cement grout. Fill all cores of walls solid with mortar at all wall anchors and inserts.



**FOUNDATION PLAN**  
 1/2"=1'-0"

- NOTES:**
1. F1 ETC. INDICATES FOOTING TYPE, SEE FOOTING SCHEDULE DRAWING S-1.
  2. ( ) INDICATES BOTTOM OF FOOTING ELEVATION.
  3. CJ INDICATES CONSTRUCTION JOINT IN WALL, SEE DETAIL DWG. SS.

<p><b>BOSTON BUILDING CONSULTANTS</b>  <small>78 ABB. ST., BOSTON, MA 02108</small></p>		<p><b>JEFFREY A. ROBINSON, INC.</b>  <small>35 HANOVER STREET      HANOVER, MASSACHUSETTS 02148      617-228-2550      FAX 617-228-4878</small></p>	<p><b>ADDITIONS AND ALTERATIONS TO THE          SOUTH SHORE REGIONAL VOCATIONAL          TECHNICAL HIGH SCHOOL</b>          HANOVER, MASSACHUSETTS</p>	<p><b>FOUNDATION PLAN - PART B</b></p>	<p>DATE: 8/15/82          SCALE: 1/2"=1'-0"</p>	<p>DRAWN: RTL          CHECKED: <i>cas</i></p>	<p><b>S2</b></p>
---	--	---	--	--	---	--	------------------

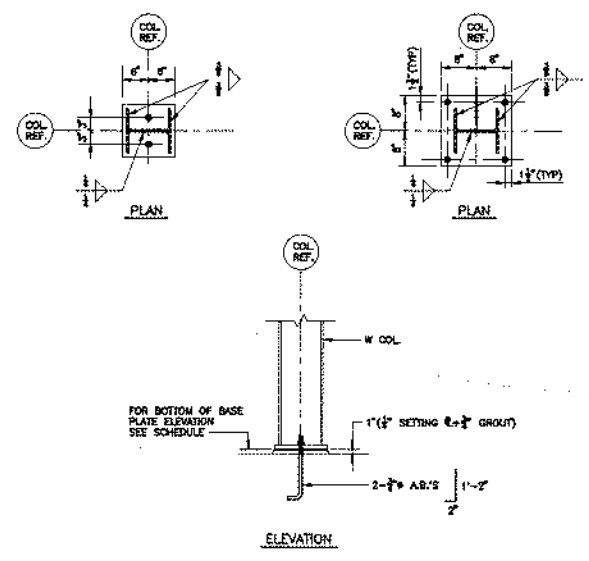


**ROOF FRAMING PLAN**  
1"=1'-0"

- NOTE:**
1. TOP OF STEEL 6L134'-2" UNLESS OTHERWISE NOTED BY (+2") ETC.
  2. \* INDICATES MOMENT CONNECTION.
  3. LETTER DESIGNATION ADJACENT TO COLUMNS INDICATES COLUMN TYPE, SEE COLUMN SCHEDULE DWG. S-3.
  4. PROVIDE 1/2" x 1/2" x 1/2" HORIZONTAL AND DIAGONAL BRIDGING AS INDICATED ON PLAN.
  5. ——— INDICATES DIRECTION OF 1/2" x 20 GA. TYPE B ROOF DECK.
  6. T<sub>2</sub> INDICATES THE JOIST.
  7. (B) INDICATES COLUMN TO BE HOT DIP GALVANIZED AFTER FABRICATION.
  8. (J) INDICATES BEAMS TO BE ALIGNED WITH ADJACENT JOISTS.

COLUMN SCHEDULE			
TYPE	SIZE	BASE PL. SIZE	ANCHOR BOLTS
A	W8x24	1'x12"x1'-0"	2-2"Ø
B	W10x30	1'x12"x1'-0"	2-2"Ø
C	W10x40	1'x12"x1'-0"	2-2"Ø
D	W10x60	1'x12"x1'-0"	2-2"Ø
E	W14x60	1'x12"x1'-0"	2-2"Ø
F	W10x30	1'x12"x1'-0"	4-2"Ø

BOTTOM OF BASE PL. ELEVATION	
COLUMNS	ELEVATION
D10, D12, D15, F6, FR, M3, M4, N7, P3, PA, PT, R2, R3	116'-0"
L3, L8	118'-0"
M5, M6, M8	122'-0"
ALL OTHERS	117'-0"



**BASE PLATE DETAILS**  
1"=1'-0"

**BOSTON BUILDING CONSULTANTS**  
79 MIT ST., Boston, MA 02109



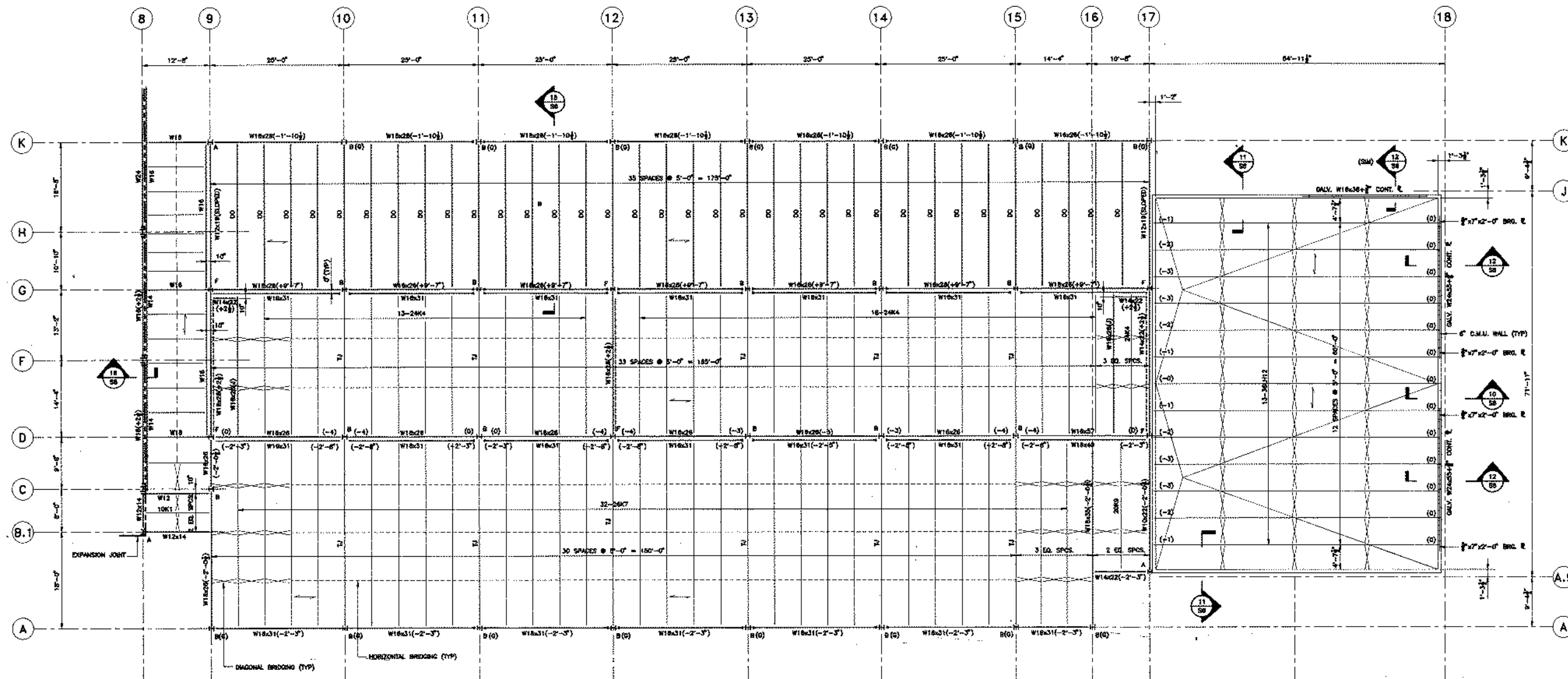
**HCT Architects Inc.**  
35 Market Street  
SPOKANE, Washington 99201  
509-325-8855  
Fax: 509-325-8858

ADDITIONS AND ALTERATIONS TO THE  
**SOUTH SHORE REGIONAL VOCATIONAL  
TECHNICAL HIGH SCHOOL**  
HANOVER, MASSACHUSETTS

ROOF FRAMING PLAN - PART A  
DRAWN: RL  
CHECKED: CCB  
DATE: 9/18/92  
SCALE: 1"=1'-0"

8732.00  
**S3**





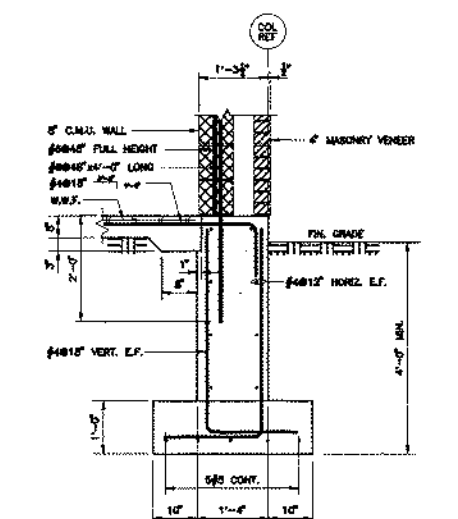
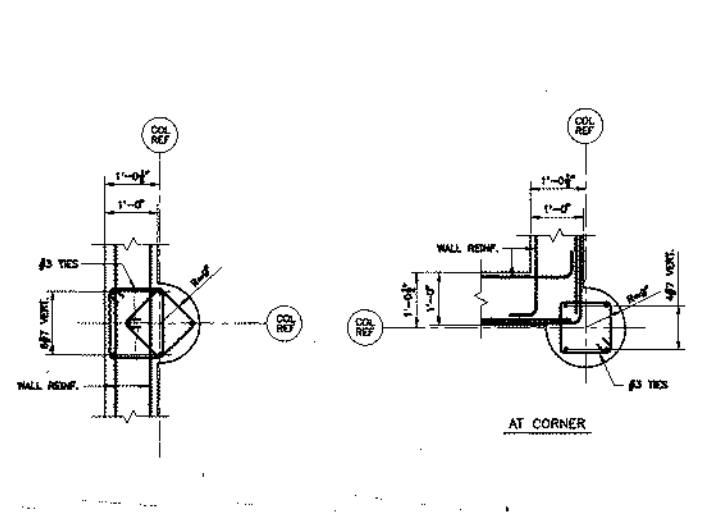
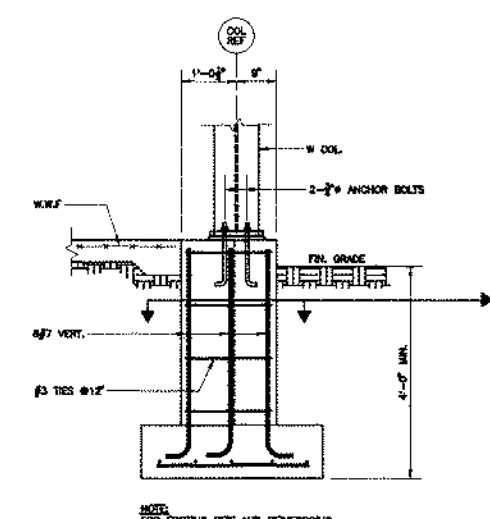
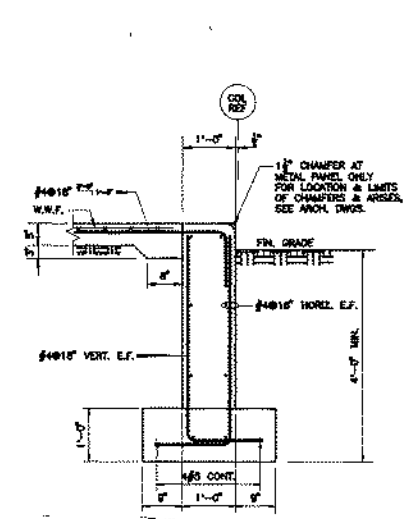
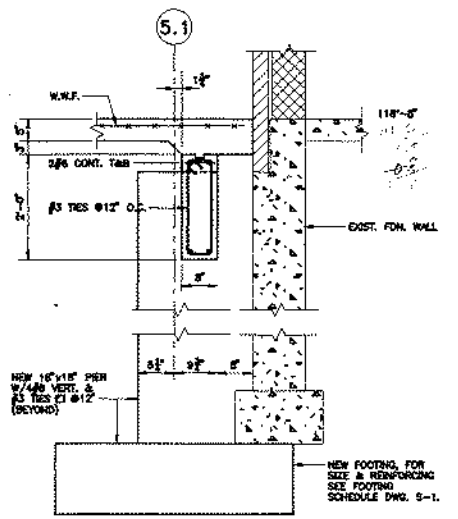
ROOF FRAMING PLAN  
1"=1'-0"

- NOTES:
1. TOP OF STEEL EL. 134'-2 1/2" UNLESS OTHERWISE NOTED BY (+2) ETC.
  2. A INDICATES MOMENT CONNECTION.
  3. LETTER DESIGNATION ADJACENT TO COLUMN INDICATES COLUMN TYPE. SEE COLUMN SCHEDULE DWG. 3-3.
  4. PROVIDE 1/2" X 1/2" HORIZONTAL AND DIAGONAL BRACING AS INDICATED ON PLAN.
  5. --- INDICATES DIRECTION OF 1/2"-20 GA. TYPE B ROOF DECK.
  6. T<sub>1</sub> INDICATES THE JOIST.
  7. (G) INDICATES COLUMN TO BE HOT DIP GALVANIZED AFTER FABRICATION.
  8. (J) INDICATES BEAM TO BE ARMED WITH ADJACENT JOISTS.

AUTO BODY SHOP  
ROOF FRAMING PLAN  
1"=1'-0"

- NOTES:
1. TOP OF LONG SPAN JOIST AT H.P. EL. 137'-1".
  2. PROVIDE 1/2" X 1/2" DIAGONAL BRACING AS INDICATED ON PLAN.
  3. --- INDICATES DIRECTION OF 1/2"-20 GA. TYPE B ROOF DECK.



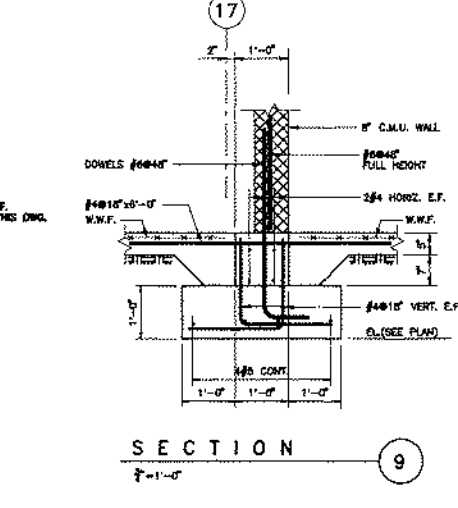
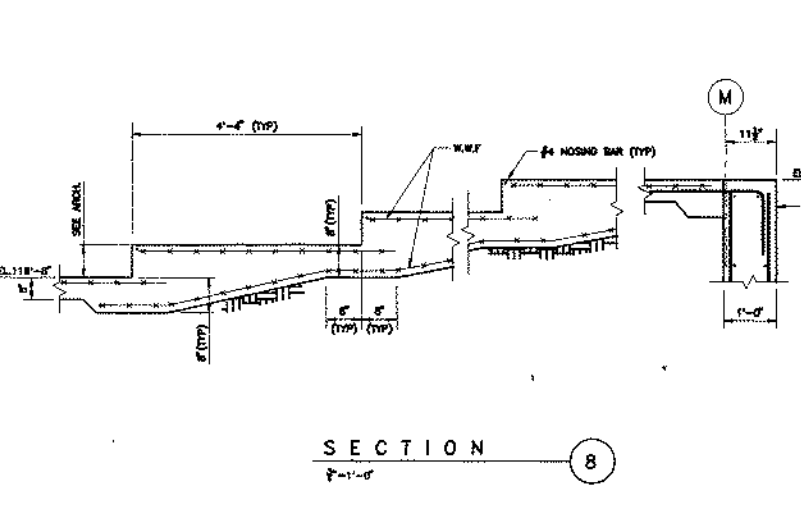
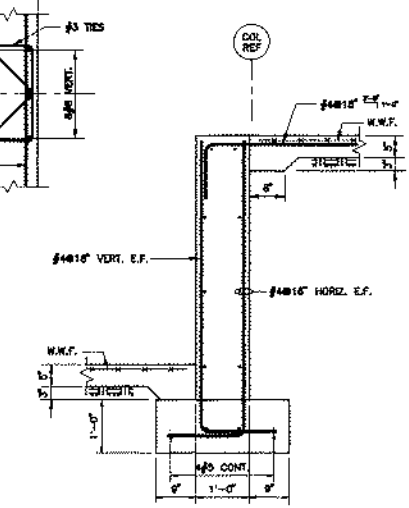
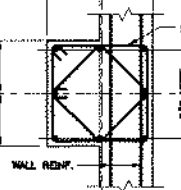
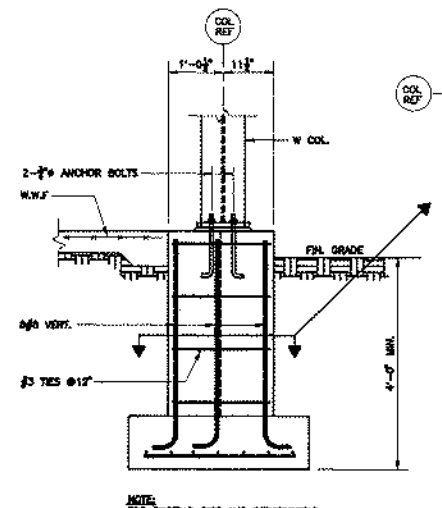
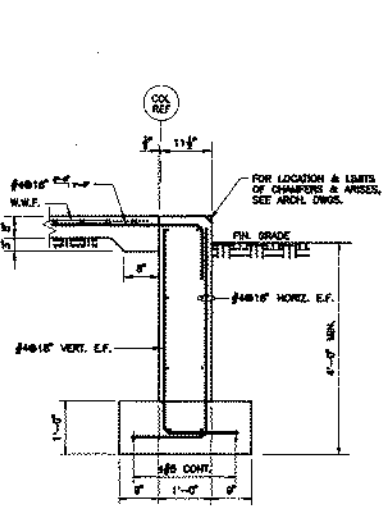


SECTION 1  
 F=1'-0"

SECTION 2  
 F=1'-0"

SECTION 3  
 F=1'-0"

SECTION 4  
 F=1'-0"



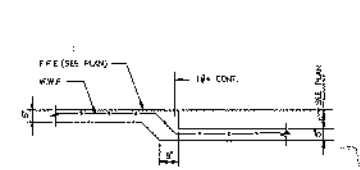
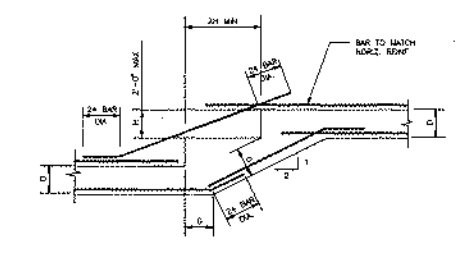
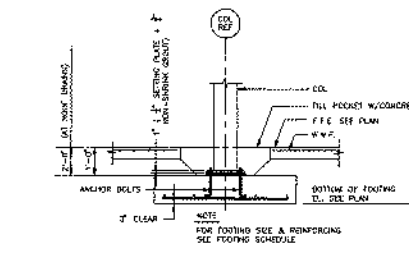
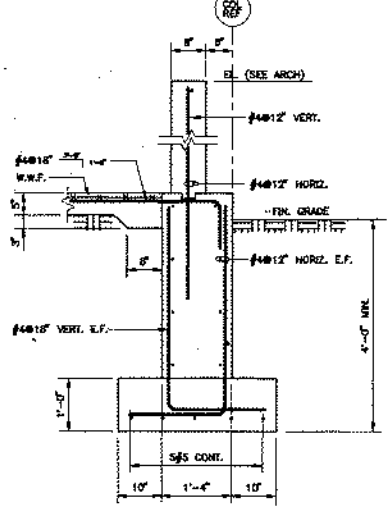
SECTION 5  
 F=1'-0"

SECTION 6  
 F=1'-0"

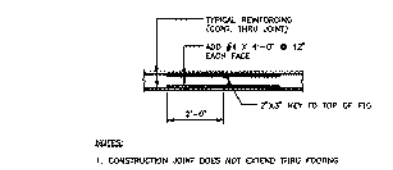
SECTION 7  
 F=1'-0"

SECTION 8  
 F=1'-0"

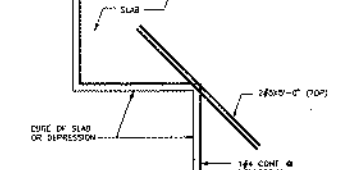
SECTION 9  
 F=1'-0"



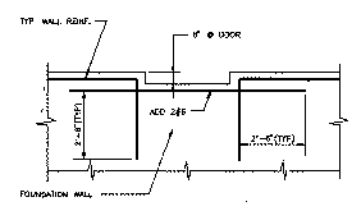
TYPICAL WALL DEPRESSION  
 N.T.S.



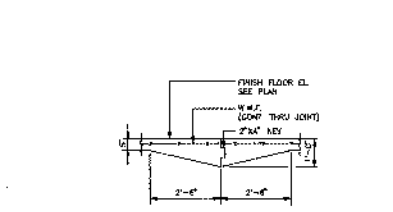
TYPICAL CONSTRUCTION JOINT IN WALL  
 N.T.S.



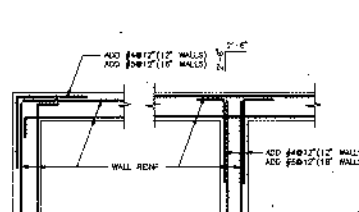
TYPICAL SLAB CORNER  
 N.T.S.



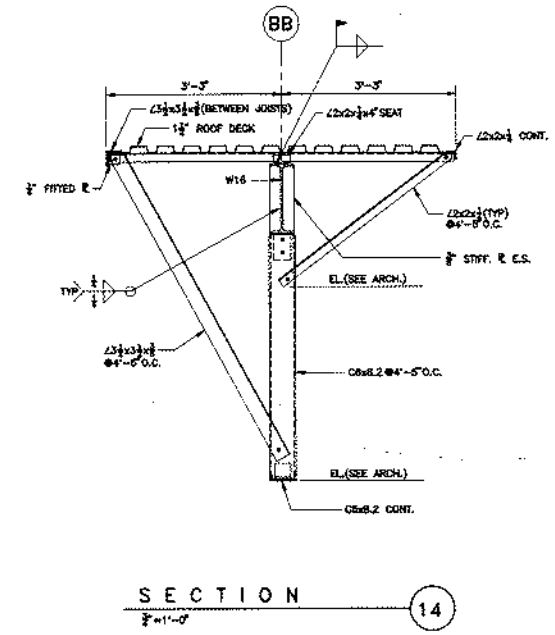
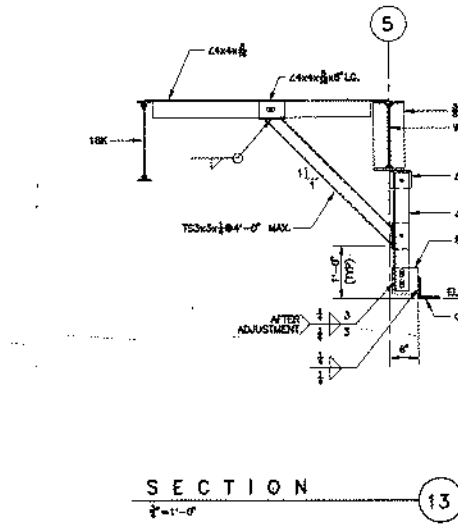
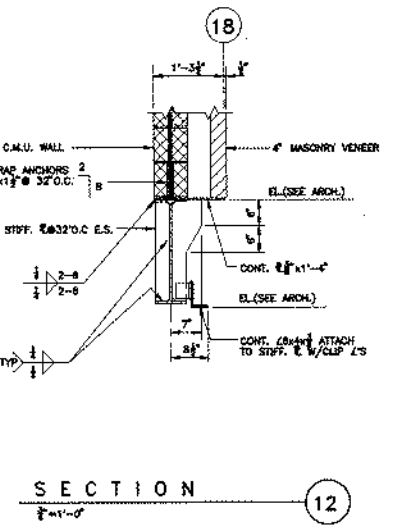
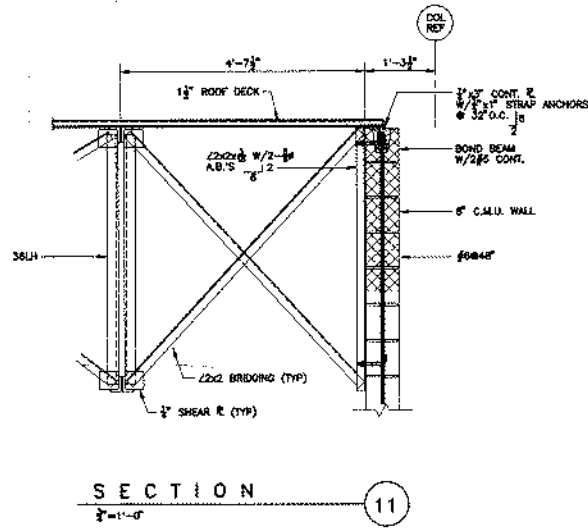
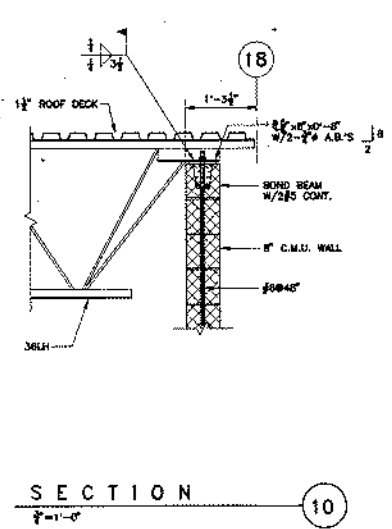
TYPICAL WALL DEPRESSION  
 N.T.S.



TYPICAL CONSTRUCTION JOINT IN SLAB  
 N.T.S.



TYPICAL WALL CORNERS  
 N.T.S.



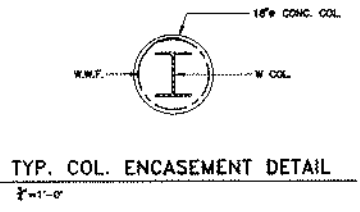
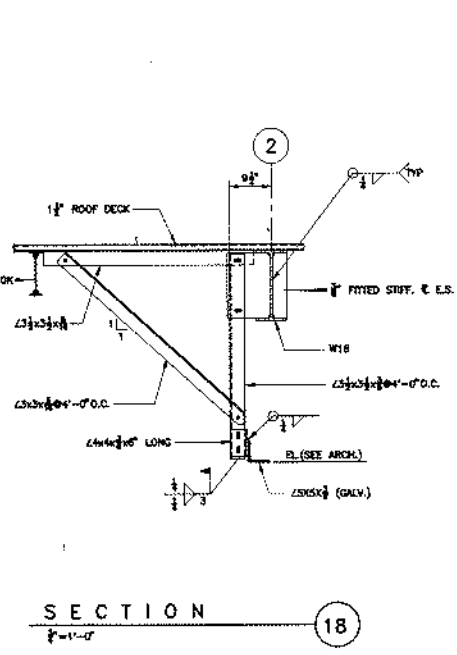
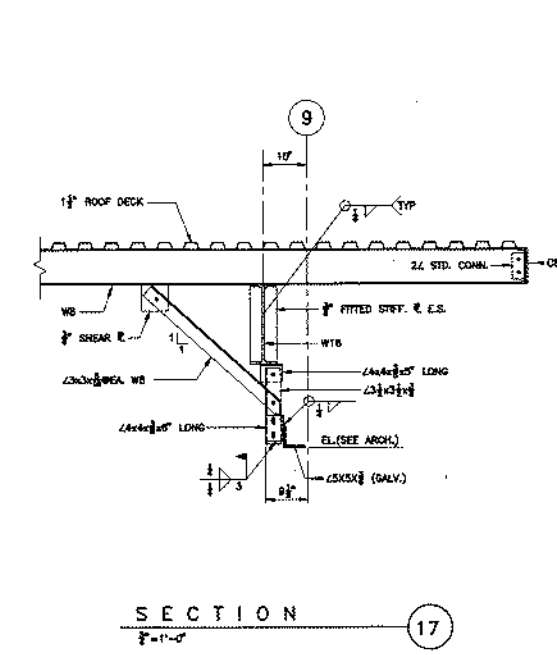
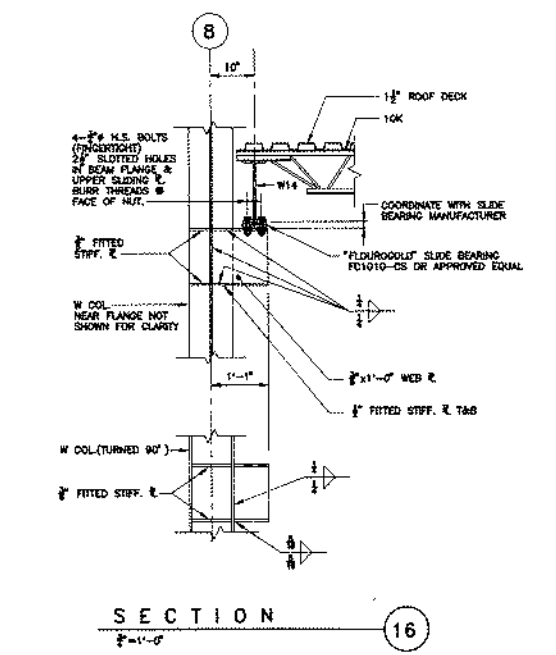
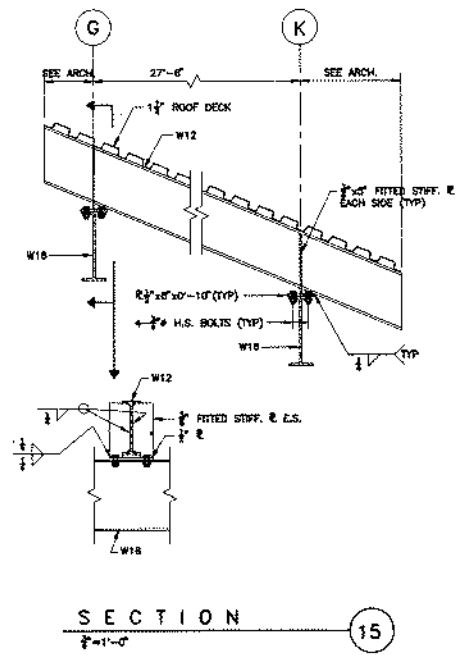
SECTION 10  
1/2"=1'-0"

SECTION 11  
1/2"=1'-0"

SECTION 12  
1/2"=1'-0"

SECTION 13  
1/2"=1'-0"

SECTION BB  
1/2"=1'-0"

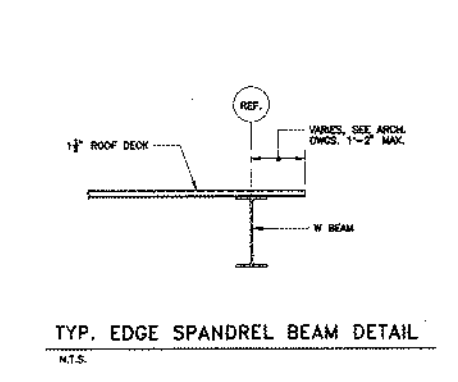
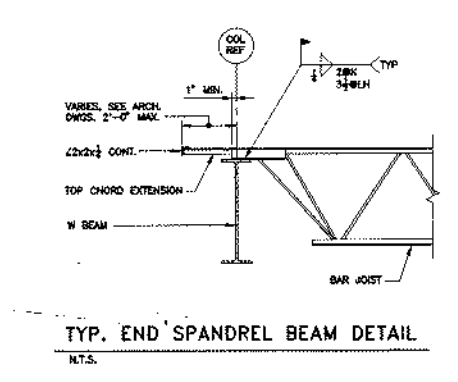
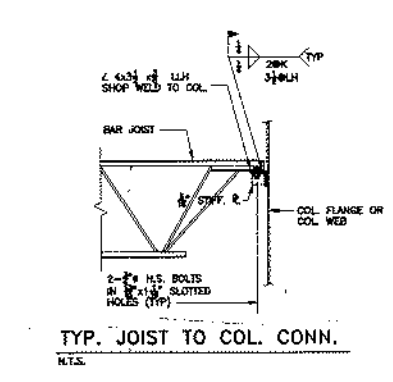
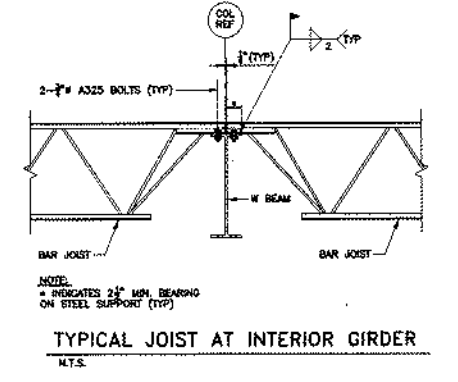
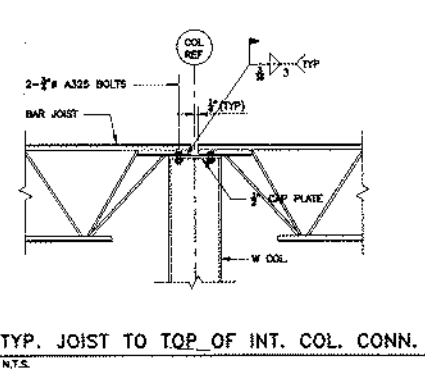
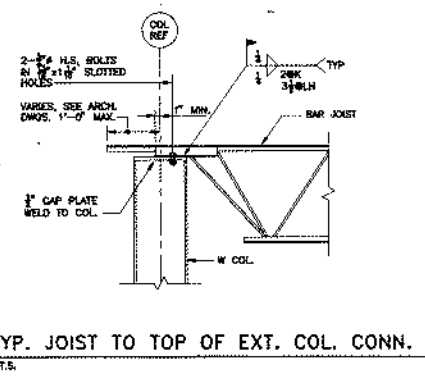


SECTION 15  
1/2"=1'-0"

SECTION 16  
1/2"=1'-0"

SECTION 17  
1/2"=1'-0"

SECTION 18  
1/2"=1'-0"



TYP. JOIST TO TOP OF EXT. COL. CONN.  
N.T.S.

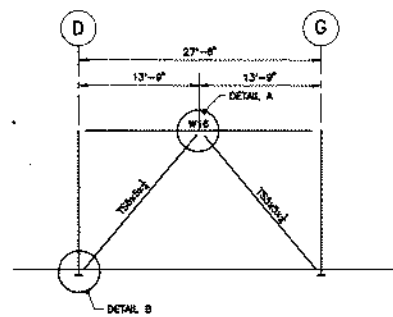
TYP. JOIST TO TOP OF INT. COL. CONN.  
N.T.S.

TYPICAL JOIST AT INTERIOR GIRDER  
N.T.S.

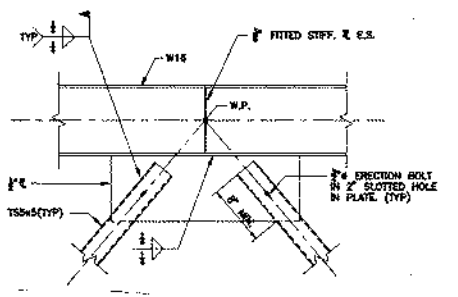
TYP. JOIST TO COL. CONN.  
N.T.S.

TYP. END SPANDREL BEAM DETAIL  
N.T.S.

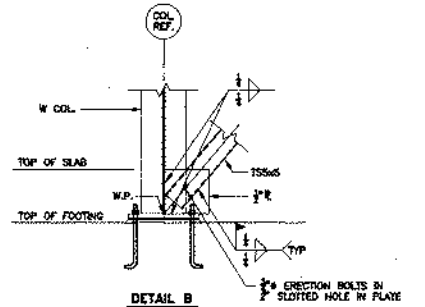
TYP. EDGE SPANDREL BEAM DETAIL  
N.T.S.



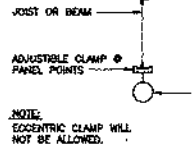
9.12, & 17 LINES



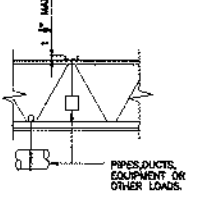
DETAIL A



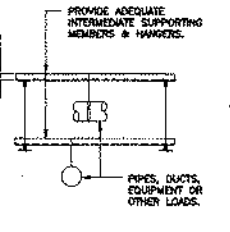
DETAIL B



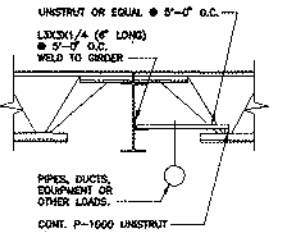
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

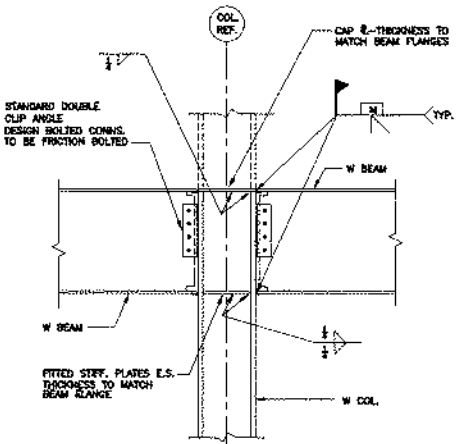
BRACING ELEVATION & DETAILS

NOTES:

- WHERE POSSIBLE ALL HANGERS SHALL BE SUSPENDED FROM BEAMS IN LIEU OF FROM JOISTS.
- PIPES, DUCTS, FITTINGS ETC. SHALL NOT BE HUNG FROM STEEL DECK OR FROM BRIDGING ANGLES.
- THE SUM OF ALL BUILDING TRADES HANGER LOADS SHALL NOT EXCEED 250 LBS. PER JOIST. WHEN THIS MAXIMUM IS EXCEEDED, A DETAIL OF PROPOSED METHOD OF HANGING SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- HANGERS AND SUPPORTING MEMBERS SHALL BE LOCATED AT PANEL POINTS OF JOISTS.
- 1/2" DIA. AND LARGER RUNNING PERPENDICULAR TO JOISTS SHALL BE SUPPORTED FROM EVERY JOIST.
- CONTRACTOR SHALL COORDINATE WITH ALL TRADES CONCERNED.
- SINGLE RUNS OF 1 1/2" AND SMALLER ARE EXEMPT FROM THESE TYPICAL HANGING RESTRICTIONS, EXCEPT ECCENTRIC CLAMPS MAY NOT BE USED FOR ANY SIZE PIPE.

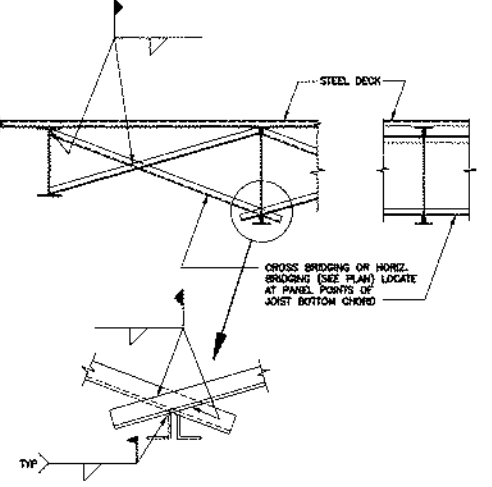
TYPICAL JOIST LOADING METHOD

N.T.S.



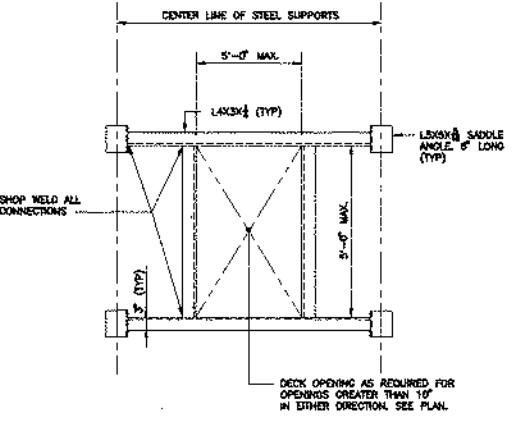
TYPICAL MOMENT CONNECTION

N.T.S.



TYPICAL BRIDGING DETAILS

N.T.S.



PLAN - ROOF DECK OPENING

N.T.S.

BOSTON BUILDING CONSULTANTS  
79 N. St., Boston, MA 02108



HNT Architects Inc.  
25 Haverford Street  
Schenectady, Massachusetts 02143  
517-277-0540  
Fax 517-277-0578

ADDITIONS AND ALTERATIONS TO THE  
SOUTH SHORE REGIONAL VOCATIONAL  
TECHNICAL HIGH SCHOOL  
HANOVER, MASSACHUSETTS

STEEL DETAILS  
DRAWN: RFL  
CHECKED: CCG  
DATE: 1/6/98  
SCALE: AS NOTED

S7