ADDENDUM #1

Rye City School District

Osborn Elementary School
10 Osborn Road
Rye, NY 10580
SED Number: #66-18-00-01-0-001-022 & #66-18-00-01-0-001-023

Midland Elementary School
312 Midland Avenue
Rye, NY 10580
SED Number: #66-18-00-01-0-003-024 & #66-18-00-01-0-003-025

Milton Elementary School
10 Hewlett St
Rye, NY 10580
SED Number: #66-18-00-01-0-002-015

Rye High School/Middle School
1 Parsons Street
Rye, NY 10580
SED Number: #66-18-00-01-0-005-031 & #66-18-00-01-0-005-032

Issued for Bid: 2021-01-29

PROJECT TEAM

Architects
Geddis Architects
71 Old Post Road, Suite 101
P.O. Box 1020
Southport, CT 06890
Phone: (203) 256-8700

Fielding International
259 Water Street, Suite 1L
Warren, RI 02885
Phone: (401) 289-2789

Construction Manager
Savin Engineers, PC
3 Campus Drive
Pleasantville, NY 10570
Phone: (914) 769-3200

Structural Engineer
Odeh Engineers
1223 Mineral Spring Ave
North Providence, RI 02904
Phone: (401) 724-1771

Civil Engineer
Weston & Sampson, PE, LS, LA, PC
1 Winners Circle, Suite 130
Albany, NY 12205
Phone: (516) 463-4400

MEP Engineer
Barile Gallagher & Associates Consulting Engineers
39 Marble Avenue, 2nd Floor
Pleasantville, NY 10570
Phone: (914) 328-6060

Acoustic Consultant
DP Design
12 Cold Spring Street
Providence, RI
401-861-3218

AV Consultant
CAVANAUGH TOCCI
327 F Boston Post Road
Sudbury, MA 01776
978-443-7871

Environmental
Quest Environmental Solutions & Technologies, Inc.
1376 Route 9
Wappingers Falls, NY 12590
845-298-6031

This Addendum No. 1 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.

The work shall be carried out in accordance with the following supplemental instructions and in accordance with the Contract Documents.

DRAWINGS:

OSBORN:

Electrical

1. Refer to Revised drawing: E2-001 Legend Abbreviations and Notes
2. Refer to Revised drawing: E2-103 Part First Floor Demolition Plan-Project 1, 1A & 1B.
3. Refer to Revised drawing: E2-203 Part First Floor Lighting Plan-Project 1, 1A & 1B.
4. Refer to Revised drawing: E2-302 Part First Floor Power Plan-Project 1 & 2.
5. Refer to Revised drawing: E2-501 Electrical Riser.

MIDLAND:

HVAC

1. Drawing H2-302 Schedules
    a. Schedule of VRF Ductless Heat Recovery Multi-Split Systems
        i. HP-3 Part Model number shall be changed from V5 to VS.

Electrical

1. Refer to Revised drawing: E2-104 Grey Box Electrical Removals, Lighting, Power, And Fire Alarm Plan-Project 1B.
2. Refer to Revised drawing: E2-202 Partial First Floor Lighting Plan-Project 1A, 2.
3. Refer to Revised drawing: E2-203 Partial First Floor Lighting Plan-Project 1B.
4. Refer to Revised drawing: E2-303 Partial First Floor Power and Fire Alarm Plan-Project 1C.
5. Refer to Revised drawing: E2-304 Roof Power and Fire Alarm Plan-Project 1D.

MILTON:

Electrical

1. Refer to Revised drawing: E2-201 New Electrical Lighting Plan -Project 2, 2C.

This Addendum No. 1 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.

2. Refer to Revised drawing: E2-301 New Electrical Power and Fire alarm Plan - Project 2,2A2B,2C.

3. Refer to Revised drawing: E2-501 Electrical Riser.

HIGH SCHOOL & MIDDLE SCHOOL:

1. T2-100:
    a. Drawing C2-005 added.

2. C2-001:
    a. Site plan revised to show added scope as part of Project 2.

3. C2-002:
    a. SED number corrected.

4. C2-003:
    a. SED number corrected.

5. C2-004:
    a. SED number corrected.

6. C2-005:
    a. New sheet to show added stairs and landing at existing exterior door as part of project 2.

7. HSMS-ASB-101:
    a. Add Removal identification numbers 7 & 8, with associated notes. Changes are bubbled on drawing.

8. D2-101:
    a. Ceiling work for conduit routing removed in area indicated. Electrical Conduit routing moved to tunnel. See revised Electrical Drawings.

9. A2-400:
    a. Updated finish of fixture WM1; Update fixture WM4.

10. A2-511:
    a. Detail 1: Refinish existing historic lobby desk.
    b. Detail 2: Revise extent of demolition of existing wall finishes as shown.

11. A2-512:
    a. Detail 2: Add Power and data at location shown.
    b. Detail 3: Revise extent of layout of hidden cove light in Lobby at trim as shown; Refurbish and reinstall existing historic chandelier in Lobby; add light at new door to vestibule 104B.

This Addendum No. 1 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.

12. A2-517:
    a. Add outlets as shown and coordinate with owner's casework vendor for installation.

13. A2-730:
    a. Project numbers added.

14. A2-926:
    a. Drawings updated for coordination with owner's casework vendor.

15. A2-928:
    a. Drawings updated for coordination with owner's casework vendor.

HVAC

1. Drawing H2-301 Schedules
    a. Schedule of indoor VRF Ductless Heat Pump Units
        1. Add note 7 to include Expansion Valve Kit and Communication control kit with each AHU/ERU unit getting a DX Coils (One for each DX coil).

2. Drawing H2-302 Schedules
    a. Schedule of Unit Ventilators
        1. Revised unit manufacturer from Tempspec inc. to SystemAir/ChangeAir System.

Electrical

1. Refer to Revised drawing: E2-101 High School Middle School Part First floor Removal Plan-Project 1.

2. Refer to Revised drawing: E2-201 High School Middle School Part First Floor Lighting Plan -Project 1.

3. Refer to Revised drawing: E2-203 High School Middle School Part First Floor Lighting Plan -Project 1.

4. Refer to Revised drawing: E2-204 High School Middle School Part First Floor Lighting Plan -Project 1 & 2.

5. Refer to Revised drawing: E2-206 High School Middle School Part Third Floor Lighting Plan -Project 3.

6. Refer to Revised drawing: E2-302 High School Middle School Part First Floor Power and FA Plan-Project 1 & 3.

7. Refer to Revised drawing: E2-304 High School Middle School Part First Floor Power and FA Plan-Project 1 & 2.

8. Refer to Revised drawing: E2-306 High School Middle School Part Second Floor Power and FA Plan-Project 1.

This Addendum No. 1 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.

9. Refer to Revised drawing: E2-309 High School Middle School Part Third Floor and Basement Power and FA Plan-Project 1 & 3.

10. Refer to Revised drawing: E2-311 High School Middle School Electrical Conduit Routing.

11. Refer to Revised drawing: E2-501 High School Middle School Part Electrical Riser.

12. Refer to Revised drawing: E2-601 High School Middle School Electrical Schedules.

SPECIFICATIONS:

VOLUME 1:

1. **Table of Contents Section 000001**

    a. Table of Contents Section 000001 for Volume 1 missing from specification, See attached.

2. **Milestone Schedule Section 011100**

    a. In Specification Section 011100, subparagraph 1.02.C, please adjust the following dates:

Osborn School

Phase 2	
Commence Construction	06/27/~~2021~~ 2022
Substantial Completion	08/19/~~2021~~ 2022

Midland School

Phase 2	
Commence Construction	06/27/~~2021~~ 2022
Substantial Completion	08/19/~~2021~~ 2022

Rye High School/Middle School

Phase 2	
Commence Construction	06/27/~~2021~~ 2022
Substantial Completion	08/19/~~2021~~ 2022

VOLUME 2 OSBORN:

1. Specification **Section 23 0266 Variable Refrigerant Flow Indoor Units**

    a. Add the Following Paragraph:

    "2.3 BMS Integration:

This Addendum No. 1 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.

a. The VRF system shall be able to integrate with Building Management Systems via BACnet™ IP gateway. This gateway converts between BACnet™ IP or Modbus TCP protocol, and RS-485 LGAP (LG Aircon protocol) allowing third party control and monitoring of the LG A/C system, or LonWorks™ gateways. See controls specification for points list."

2. Specification Section 23 0460 Automatic Temperature Controls

a. 3.7 Sequences of Operation, Add the following:

A. VRF Ductless Split Ceiling, ducted Units, and Coils

1. Point List

a. Space Temperature
b. VRF Space Temperature Setpoint
c. Occupied/Unoccupied
d. VRF Indoor Mode (Heating/Cooling)
e. VRF Indoor Unit fan speed
g. VRF Outdoor Mode/status

(Provide all required hardware and software to interface the BMS with the VRF system.)

2. Sequence of Operation

a. Unoccupied Mode: Cooling shall not operate. Heat pump shall operate as required to satisfy space temperature setback setpoint.

b. Occupied Mode: Cooling shall operate as required based upon its own packaged controls to maintain thermostat setpoint. Radiation (if applicable) shall operate as Stage 1 heating. Heating heat pump operation shall operate as Stage 2 to maintain space thermostat setpoint.

3. Specification Section 23 0265 VRF Outdoor Units

a. Add the Following Paragraphs:

"2.2 EEV Kit

A. General
1. Unit shall be manufactured by LG.

2. Unit shall be factory assembled and wired unit shall be designed to be installed indoors only.

3. Unit shall be capable to be installed with heat pump or heat recovery VRF system.

This Addendum No. 1 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.

4. Unit requires one communication kit to provide power and control signals.

5. Connects liquid line piping from outdoor unit to any AHU coil.

B. Electrical
1. Six conductor, 18 GA shielded and stranded field supplied wiring for 12 volt (low voltage) power and control signal from communication kit.

2.3 AHU COMMUNICATION KIT PAHCMR00 (RETURN AIR CONTROL)

A. General
1. Unit shall be manufactured by LG.

2. Unit shall be factory assembled and wired.

3. Unit shall be designed to be installed for indoor or outdoor.

4. Unit shall be capable to be installed with heat pump or heat recovery VRF system.

5. Allows communication between third party air handling unit (AHU) and LG Multi V air-source or water-source outdoor units with combination ratio between 50% to 100%.

6. Requires one EEV kit to control the flow of refrigerant from Multi V outdoor unit to AHU coil.

B. Electrical:
1. The unit electrical power shall be 208-230/1/60 (V/Ph/Hz)."

VOLUME 3 MIDLAND:

1. **Specification Section 23 0460 Automatic Temperature Controls**

a. 3.7 Sequences of Operation, A. Ductless Split Ceiling, Ducted Units, and Coils,
i. Change the Point List to read:

a. Space Temperature
b. VRF Space Temperature Setpoint
c. Occupied/Unoccupied
d. VRF Indoor Mode (Heating/Cooling)
e. VRF Indoor Unit fan speed
e. Energy Recovery Unit Status (if applicable)
f. Baseboard Fin-tube Control Valve Status (if applicable)
g. VRF Outdoor Mode/status

Provide all required hardware and software to interface the BMS with the VRF system."

ii. Unoccupied and Occupied Modes, add the following:

This Addendum No. 1 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.

a. “Hydronic hot water coils (if applicable) shall be stage 3 heating.”

2. Specification Section 23 0255 VRF Indoor Units

a. Add the Following Paragraph:

“2.3 BMS Integration:

a. The VRF system shall be able to integrate with Building Management Systems via BACnet™ IP gateway. This gateway converts between BACnet™ IP or Modbus TCP protocol, and RS-485 LGAP (LG Aircon protocol) allowing third party control and monitoring of the LG A/C system, or LonWorks™ gateways. See controls specification for points list.”

3. Specification Section 23 0265 VRF Outdoor Units

b. Add the Following Paragraphs:

“2.2 EEV Kit

A. General

1. Unit shall be manufactured by LG.

2. Unit shall be factory assembled and wired unit shall be designed to be installed indoors only.

3. Unit shall be capable to be installed with heat pump or heat recovery VRF system.

4. Unit requires one communication kit to provide power and control signals.

5. Connects liquid line piping from outdoor unit to any AHU coil.

B. Electrical

1. Six conductor, 18 GA shielded and stranded field supplied wiring for 12 volt (low voltage) power and control signal from communication kit.

2.3 AHU COMMUNICATION KIT PAHCMR00 (RETURN AIR CONTROL)

A. General

1. Unit shall be manufactured by LG.

2. Unit shall be factory assembled and wired.

3. Unit shall be designed to be installed for indoor or outdoor.

4. Unit shall be capable to be installed with heat pump or heat recovery VRF system.

This Addendum No. 1 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.

5. Allows communication between third party air handling unit (AHU) and LG Multi V air-source or water-source outdoor units with combination ratio between 50% to 100%.

6. Requires one EEV kit to control the flow of refrigerant from Multi V outdoor unit to AHU coil.

B. Electrical:
1. The unit electrical power shall be 208-230/1/60 (V/Ph/Hz)."

VOLUME 4 MILTON:

1. Specification Section 23 0270 Variable Refrigerant Flow Indoor Units

a. Add the Following Paragraph:

"2.3 BMS Integration:
a. The VRF system shall be able to integrate with Building Management Systems via BACnet™ IP gateway. This gateway converts between BACnet™ IP or Modbus TCP protocol, and RS-485 LGAP (LG Aircon protocol) allowing third party control and monitoring of the LG A/C system, or LonWorks™ gateways. See controls specification for points list."

2. Specification Section 23 0265 Variable Refrigerant Flow Outdoor Units

a. Add the Following Paragraphs:

"2.2 EEV Kit

A. General
1. Unit shall be manufactured by LG.

2. Unit shall be factory assembled and wired unit shall be designed to be installed indoors only.

3. Unit shall be capable to be installed with heat pump or heat recovery VRF system.

4. Unit requires one communication kit to provide power and control signals.

5. Connects liquid line piping from outdoor unit to any AHU coil.

B. Electrical
1. Six conductor, 18 GA shielded and stranded field supplied wiring for 12 volt (low voltage) power and control signal from communication kit.

2.3 AHU COMMUNICATION KIT PAHCMR00 (RETURN AIR CONTROL)

A. General
1. Unit shall be manufactured by LG.

This Addendum No. 1 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.

2. Unit shall be factory assembled and wired.

3. Unit shall be designed to be installed for indoor or outdoor.

4. Unit shall be capable to be installed with heat pump or heat recovery VRF system.

5. Allows communication between third party air handling unit (AHU) and LG Multi V air-source or water-source outdoor units with combination ratio between 50% to 100%.

6. Requires one EEV kit to control the flow of refrigerant from Multi V outdoor unit to AHU coil.

B. Electrical:

1. The unit electrical power shall be 208-230/1/60 (V/Ph/Hz)."

3. Specification Section 23 0460 Automatic Temperature Controls

a. 3.8 Sequences of Operation, C. VRF System Heat Recovery Units
   i. Change the Point List to read:

a. "Space Temperature
b. VRF Space Temperature Setpoint
c. Occupied/Unoccupied
d. VRF Indoor Mode (Heating/Cooling)
e. VRF Indoor Unit fan speed
e. Energy Recovery Unit Status (if applicable)
f. Baseboard Fin-tube Control Valve Status (if applicable)
g. VRF Outdoor Mode/status

Provide all required hardware and software to interface the BMS with the VRF system."

   ii. Change "VRF System Heat Recovery Units" to read "VRF System Heat Pump Units."

VOLUME 5 HIGH SCHOOL & MIDDLE SCHOOL:

1. Asbestos Abatement Specification 02 08 00, see attached.

a. Section 3.17
In "HIGH SCHOOL/MIDDLE SCHOOL (INTERIOR ABATEMENTS)," ***Add*** bullet 7 stating the following:

- Abatement Contractor is responsible for complete & total removal and disposal of the following in Women's Bathroom 105:
  - Three (3) radiators/heaters, and approximately 12 SF of friable insulation/insulation board assumed to exist behind each removed unit, as well as approximately 12 SF of non-friable asbestos

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containing waterproofing tar on perimeter masonry behind each removed unit.

- Two (2) wall diffusers on friable, asbestos-containing plaster walls, as well as 1' of wall material, including lathe around perimeter of each diffuser (approx. 4 SF each)
- Friable, asbestos containing plaster on metal lathe, behind sheetrock, in two (2) locations of toilet & associated plumbing removals. Abatement contractor is responsible for complete & total removal of all wall materials, and materials found behind walls associated with plumbing demo.

The Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). Abatement contractor is responsible for all patching to ensure all demolition and construction required is non-ACM work. All debris generated shall be disposed of as ACM. See attached ACM location drawings for removal locations.

2. Specification Section 23 0266 Variable Refrigerant Flow Indoor Units

a. Add the Following Paragraphs:

"2.3 BMS Integration:

a. The VRF system shall be able to integrate with Building Management Systems via BACnet™ IP gateway. This gateway converts between BACnet™ IP or Modbus TCP protocol, and RS-485 LGAP (LG Aircon protocol) allowing third party control and monitoring of the LG A/C system, or LonWorks™ gateways. See controls specification for points list."

3. Specification Section 23 0265 Variable Refrigerant Flow Outdoor Units

a. Add the Following Paragraphs:

"2.2 EEV Kit

A. General

1. Unit shall be manufactured by LG.

2. Unit shall be factory assembled and wired unit shall be designed to be installed indoors only.

3. Unit shall be capable to be installed with heat pump or heat recovery VRF system.

4. Unit requires one communication kit to provide power and control signals.

5. Connects liquid line piping from outdoor unit to any AHU coil.

B. Electrical

1. Six conductor, 18 GA shielded and stranded field supplied wiring for 12 volt (low voltage) power and control signal from communication kit.

This Addendum No. 1 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.

2.3 AHU COMMUNICATION KIT PAHCMR00 (RETURN AIR CONTROL)

A. General

1. Unit shall be manufactured by LG.

2. Unit shall be factory assembled and wired.

3. Unit shall be designed to be installed for indoor or outdoor.

4. Unit shall be capable to be installed with heat pump or heat recovery VRF system.

5. Allows communication between third party air handling unit (AHU) and LG Multi V air-source or water-source outdoor units with combination ratio between 50% to 100%.

6. Requires one EEV kit to control the flow of refrigerant from Multi V outdoor unit to AHU coil.

B. Electrical:

1. The unit electrical power shall be 208-230/1/60 (V/Ph/Hz)."

4. Specification Section 23 0460 Automatic Temperature Controls

a. 3.7 Sequences of Operation, C. VRF System Heat Recovery Units:
Change the Point List to read:

a. Space Temperature
b. VRF Space Temperature Setpoint
c. Occupied/Unoccupied
d. VRF Indoor Mode (Heating/Cooling)
e. VRF Indoor Unit fan speed
e. Energy Recovery Unit Status (if applicable)
f. Baseboard Fin-tube Control Valve Status (if applicable)
g. VRF Outdoor Mode/status

Provide all required hardware and software to interface the BMS with the VRF system."

5. Specification Section 23 0230 Floor Mounted Vertical Unit Ventilators

a. 1.1 System Description, A.1. General Specifications. The manufacturer referenced was changed from Temspec Inc. to SystemAir/ChangeAir Systems or approved equal.

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Rye City Schools

Osborn Elementary School

10 Osborn Road, Rye, NY 10580

SED Number: #66-18-00-01-0-001-022 & #66-18-00-01-0-001-023

Midland Elementary School

312 Midland Ave, Rye, NY 10580

SED Number: #66-18-00-01-0-003-024 & #66-18-00-01-0-003-025

Milton Elementary School

12 Hewlett Street, Rye, NY 10580

SED Number: #66-18-00-01-0-002-015

Rye High School/Middle School

1 Parsons Street Rye, NY 10580

SED Number: #66-18-00-01-0-005-031 & #66-18-00-01-0-005-032

Issued for Bid; 2021-01-19

Table of Contents

SECTION	*SECTION NAME*	ISSUE DATE
VOLUME 1	***Osborn Elementary School, Midland Elementary School, Milton Elementary School and Rye High School Middle School***	
DIVISION 0	***PROCUREMENT AND CONTRACTING DOCUMENTS***	
000001	*TABLE OF CONTENTS*	1/19/2021
000115	*LIST OF DRAWING SHEETS*	1/19/2021
000120	*INVITATION TO BID*	1/19/2021
000130	*INSTRUCTIONS TO BIDDERS*	1/19/2021
000310a	*BID FORM - 1 - OSBORN CONTRACT*	1/19/2021
000310b	*BID FORM - 2 - MIDLAND CONTRACT*	1/19/2021
000310c	*BID FORM - 3 - MILTON CONTRACT*	1/19/2021
000310d	*BID FORM - 4 - HIGH SCHOOL/MIDDLE SCHOOL CONTRACT*	1/19/2021
	NON COLLUSIVE FORM	1/19/2021
	SEXUAL HARASSMENT PREVENTION CERTIFICATION FORM	1/19/2021
	QUALIFICATION OF BIDDERS	1/19/2021
	HOLD HARMLESS AGREEMENT	1/19/2021
00318	*SITE VISIT DURING BIDDING*	1/19/2021
	CONTRACT	1/19/2021
000400	*GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION*	1/19/2021
000605	*PREVAILING RATE SCHEDULE*	1/19/2021
004806	*CERTIFICATION OF COMPLIANCE WITH THE IRAN DIVESTMENT ACT*	1/19/2021
	DECLARATION OF BIDDERS INABILITY TO PROVIDE CERTIFICATION OF COMPLIANCE WITH THE IRAN DIVESTMENT ACT	1/19/2021
DIVISION 1	***GENERAL REQUIREMENTS***	
011000a	*MULTIPLE CONTRACT SUMMARY - OSBORN*	1/19/2021
011000b	*MULTIPLE CONTRACT SUMMARY - MIDLAND*	1/19/2021
011000c	*MULTIPLE CONTRACT SUMMARY - MILTON*	1/19/2021
011000d	*MULTIPLE CONTRACT SUMMARY - HIGH SCHOOL/MIDDLE SCHOOL*	1/19/2021
011100	*MILESTONE SCHEDULE*	1/19/2021
011400	*NYSED 155.5 REGULATIONS*	1/19/2021
012100.1	*ALLOWANCES*	1/19/2021
012100.2	*ALLOWANCES ATTACHMENT*	1/19/2021
12200.1	*UNIT PRICES*	1/19/2021

012200.2	*UNIT PRICES*	1/19/2021
012300.1	*ALTERNATES*	1/19/2021
012300.2	*ALTERNATES ATTACMENT*	1/19/2021
012500	*SUBSTITUTION PROCEDURES*	1/19/2021
012600	*CONTRACT MODIFICATION PROCEDURES*	1/19/2021
012900	*PAYMENT PROCEDURES*	1/19/2021
013100	*PROJECT MANAGEMENT AND COORDINATION*	1/19/2021
013200	*CONSTRUCTION PROGRESS DOCUMENTATION*	1/19/2021
013233	*PHOTOGRAPHIC DOCUMENTATION*	1/19/2021
013300	*SUBMITTAL PROCEDURES*	1/19/2021
13300	*SUBMITTALS COVER SHEET*	1/19/2021
014000	*QUALITY REQUIREMENTS*	1/19/2021
014200	*REFERENCES*	1/19/2021
015000	*TEMPORARY FACILITIES AND CONTROLS*	1/19/2021
016000	*PRODUCT REQUIREMENTS*	1/19/2021
	PRODUCT SUBSTITUTION FORM	1/19/2021
017300	*EXECUTION*	1/19/2021
017419	*CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL*	1/19/2021
017700	*CLOSEOUT PROCEDURES*	1/19/2021
017823	*OPERATION AND MAINTENANCE DATA*	1/19/2021
017839	*PROJECT RECORD DOCUMENTS*	1/19/2021
017900	*DEMONSTRATION AND TRAINING*	1/19/2021

SECTION 020800 – ASBESTOS ABATEMENT

AT: RYE CITY SCHOOL DISTRICT
RYE HIGH SCHOOL/MIDDLE SCHOOL
SED# 66180001-0005-032

OWNER: RYE CITY SCHOOL DISTRICT
555 THEODORE FREMD AVENUE, SUITE B-101
RYE, NEW YORK 10580

CONSULTANT: QUALITY ENVIRONMENTAL SOLUTIONS
& TECHNOLOGIES, INC.
1376 ROUTE 9
WAPPINGERS FALLS, NEW YORK 12590



SPECIFICATION DATED: January 19, 2021

ADDENDUM 1 DATED: January 29, 2021

Design conforms to all applicable provisions of the NYS Uniform Fire Prevention and Building Code, NYS Energy Conservation Construction Code and Education Department Building Standards.

SECTION 020800 – ASBESTOS ABATEMENT PROCEDURES

PART I – GENERAL

1.01 DESCRIPTION

A. All work under this contract shall be performed in strict accordance with the specifications and all applicable laws for asbestos removal projects. The Abatement Contractor shall furnish all labor, materials, supervision, services, insurance and equipment necessary for the complete and total removal of Asbestos-containing Materials (ACM) as described herein, in attachments to the specification, Job Specific Variance(s) and/or as directed by Rye CSD (here-in-after the "Owner") and/or the Owners Representative(s) to support ***Rye CSD: 2019 Capital Bond Project Phase II – Rye High School/Middle School.***

B. Abatement Contractor shall provide for personnel air monitoring to satisfy OSHA regulation 29 CFR Parts 1926.1101(f). All work performed shall be in strict accordance with applicable provisions and regulations promulgated under New York State Department of Labor, Industrial Code 56 (ICR-56).

C. The Abatement Contractor shall satisfy the requirements for asbestos projects issued by the New York State Department of Labor concerning licensing and certification; notification; equipment; removal and disposal procedures; engineering controls; work area preparation; decontamination and clean-up procedures; and personnel air monitoring.

D. The Abatement Contractor shall be responsible for submittal of asbestos project notification(s) and applicable fees to EPA and NYSDOL concerning this project. Project notification(s) shall be made for the cumulative total of ACM to be removed as required by ICR-56-3.4. Work practices for each individual work area established shall be consistent with the quantity of ACM contained within that work area as defined in ICR-56-2.

E. The scope of work under this contract shall include the following:

1. All asbestos-containing materials (ACM) shall be removed in accordance with these specifications. The Abatement Contractor is responsible for field verification of estimated quantities, locations and other site conditions that may affect work.

2. All fixed objects remaining within the work area(s) shall be protected as required by Title 12 NYCRR Section 56-7.10(b) and as described in these specifications.

3. The containerization, labeling and disposal of all asbestos waste in accordance with applicable city, state and federal regulations and these specifications.

4. The Abatement Contractor will be responsible for repairing all building components damaged during abatement including, but not limited to, ceiling tiles, ceiling finishes, wall finishes and/or floor finishes, etc.

5. The Abatement Contractor shall be responsible for any and all demolition required to access materials identified in scope of work and on associated drawings.

6. Concealed conditions that are exposed and may require additional work shall be brought to the attention of the Owner(s) immediately. The Abatement Contractor shall not abate these areas without a written notice to proceed. If the Abatement Contractor removes additional asbestos prior to the order to proceed the additional work will not be acknowledged.

7. Permissible working hours shall be Monday through Friday 7:00 A.M. to 4:00 P.M. and/or as defined by the Owner(s) and/or Owner's Representative(s). Holidays shall be considered weekends and not included for working days. Upon written approval from the Owner, the Abatement Contractor may work past these hours. The Abatement Contractor will incur any and all costs associated for work performed beyond the defined schedule including, but not limited to: abatement activities, project/air monitoring, custodial/staffing labor, overtime, mobilizations, etc.

8. Buildings will be turned over to the Abatement Contractor as is. At that time, all electrical services and HVAC systems in the proposed work areas will be shut down. Electricity and water supply will be maintained in the building for use by the Abatement Contractor. The Abatement Contractor is responsible for securing all power in the work area(s) and establishing all temporary GFCI hookups necessary to complete his work.

9. The Abatement Contractor shall remove all identified Asbestos-containing Materials (ACM) to building substrate(s); in areas indicted. Subsequent to final air clearances, the substrate(s) shall be washed with a neutralizing agent to prepare the substrate to accept new floor covering and eliminate residual odors.

10. The Abatement Contractor must coordinate location of waste containers with the Facility and the Owner. Deliveries and storage of equipment must be coordinated with the Facility and the Owner.

11. All "Large" and "Small" asbestos abatement projects, as defined by 12 NYCRR56 shall not be performed while the building is occupied. The term "building" means a wing or major section of a building that can be completely isolated from the rest of the building with sealed non-combustible construction. The isolated portion of the building must contain exists that do not pass through the occupied portion(s) and ventilation systems must be physically separated and sealed at the isolation barriers.

1.02 PRE-CONTRACT SUBMITTALS

Within three (3) days after bids are opened, the three (3) apparent low bidders shall be required to submit the following documentation:

A. Resume's: Shall include the following:

1. Provide a list of projects of similar nature performed within the past two (2) years and include the dollar value of all projects. Provide project references to include owner, consultant, and air monitoring firms' name, contact person, address, and phone number, include location of project and date of completion.

2. Abatement Contractor license issued by New York State Department of Labor for asbestos work in accordance with ICR-56-3.

3. A list of owned equipment available to be used in the performance of the project.

4. The number of years engaged in asbestos removal.

5. An outline of the worker training courses and medical surveillance program conducted by the Abatement Contractor.

6. A standard operating procedures manual describing work practices and procedures, equipment, type of decontamination facilities, respirator program, special removal techniques, etc.

7. Documentation to the satisfaction of the Owner pertaining to the Abatement Contractor's financial resources available to perform the project. Such data shall include, but not be limited to, the firm's balance sheet for the last fiscal year.

B. Citations/Violations/Legal Proceedings

1. Submit a notarized statement describing any citations, violations, criminal charges, or legal proceedings undertaken or issued by any law enforcement, regulatory agency, or consultant concerning performance on previous asbestos abatement contracts. Briefly describe the circumstances citing the project and involved persons and agencies as well as the outcome of any actions.

2. Answer the question: "Has your firm or its agents been issued a Stop Work order on any project within the last two years?" If "Yes" provide details as discussed above.

3. Answer the question: "Are you now, or have you been in the past, a party to any litigation or arbitrations arising out of your performance on Asbestos Abatement Contracts?" If "Yes" provide details as discussed in 1. above.

4. Describe any liquidated damages assessed within the last two years.

C. Preliminary Schedule

1. Provide a detailed schedule including work dates, work shift times, estimate of manpower to be utilized and the start and completion date for completion of each major work area.

1.03 DOCUMENTATION

A. The Abatement Contractor shall be required to submit the following and receive the Consultant's approval prior to commencing work on this project:

1. Provide documentation of worker training for each person assigned to the project. Documentation shall include copies of each workers valid New York State asbestos handler certificates (for those employees who may perform asbestos removal), documentation of current respirator fit test and current OSHA required training and medical examination.

2. The attached "Asbestos Employee Medical Examination Statement" and "Asbestos Employee Training Statement" forms shall be completed, signed and submitted for each worker assigned to

the project. Records of all employee training and medical surveillance shall be maintained for at least forty (40) years. Copies of the records shall be submitted to the Consultant prior to commencement.

3. The Abatement Contractor shall submit proof of a current, valid license issued by the New York State Department of Labor pursuant to the authority vested in the Commissioner by section 906 of the Labor Laws, and that the employees performing asbestos related work on this project are certified by the State of New York as required in Part 56 of Title 12 of the Official Compilation of Codes, Rules and Regulations of the State of New York latest edition. Copies of all licenses shall be submitted prior to the commencement of the project.

4. The Abatement Contractor shall submit a written respiratory protection program meeting the requirements of 29 CFR 1910.134 to the Consultant.

5. The name, address, social security number and NYS DOL certificate number of the person(s) who will supervise the asbestos project.

6. The name and address of the deposit or waste disposal site or sites where the asbestos materials are to be deposited or disposed of. This site must be approved by the Owner. The manifesting procedure must also be specified.

7. The name, address and New York State Dept. of Environmental Conservation ID Number of any transporters that are to be used to transport waste.

8. A written Standard Operation Procedure (SOP) that is designed and implemented to maximize protection against human exposure to asbestos dust. The SOP shall take into consideration the workers, visitors, building employees, general public and environment. As a minimum the procedures must include the following:

   a. Security for all work areas on an around-the-clock basis against unauthorized access.

   b. Project organization chart including the phone numbers of at least two responsible persons who shall be authorized to dispatch men and equipment to the project in the event of an emergency; including weekends.

   c. Description of protective clothing and NIOSH approved respirators to be used.

   d. Description of all removal methods to be used, including HEPA air filtration and decontamination sequence with special emphasis on any procedure that may deviate from these specifications.

   e. A list of manufacturers' certificates stating that all vacuums, negative air filtration equipment, respirators and air supply equipment meet OSHA and EPA requirements.

   f. A list of all materials proposed to be furnished and used under this contract.

   g. Emergency evacuation procedures in the event of fire, smoke or accidents such as injury from falling, heat exposure, electrical shock, etc.

h. The name, address and ELAP number of the New York State Department of Health Certified Analytical Testing Laboratory the Contractor proposes to use for the OSHA monitoring.

9. A detailed plan, in triplicate, for the phasing of the project, division of work areas and location of decontamination facilities, waste containers and temporary office.

10. Work schedule, identifying firm dates and completion for actual areas. Bar chart or critical path chart indicating phases is required.

B. The Abatement Contractor shall post their NYS DOL contractor's license and maintain a daily log documenting the dates and time of the following items within each personal decontamination unit:

1. Meetings; purpose, attendants, discussion (brief)

2. Sign-in and sign-out of all persons entering the work area including name, date, time, social security number, position or function and general description of daily activity.

3. Testing of barriers and enclosure systems using smoke tubes prior to the beginning of abatement activities and at least once a day thereafter until satisfactory clearance air monitoring results have been achieved.

4. Inspection of all plastic barriers, twice daily, by the asbestos supervisor.

5. Loss of enclosure integrity; special or unusual events, barrier breaches, equipment failures, etc.

6. Daily cleaning of enclosures.

7. Personnel air monitoring test results for OSHA Compliance. Results shall be posted at the work site within 24 hours of testing and copies supplied to the Owner within five (5) days of testing. Abnormalities shall be supplied to the Owner immediately.

C. Documentation with confirmation signature of Consultant's representative of the following shall be provided by the Abatement Contractor at the final closeout of the project.

1. Testing of barriers and enclosure systems using smoke tubes shall be performed prior to the beginning of abatement activities and at least once a day thereafter until satisfactory clearance air monitoring results have been achieved.

2. Inspection of all plastic barriers.

3. Removal of all polyethylene barriers.

4. Consultant's inspections prior to encapsulation.

5. Removal of waste materials.

6. Decontamination of equipment (list items).

7. Consultant's final inspection/final air tests.

D. The Abatement Contractor shall provide records of all project information, to include the following which shall be submitted upon completion of the project and prior to approval of the Abatement Contractor's payment application:

1. The location and description of the abatement project.

2. The name, address and social security number of the person(s) who supervised the asbestos project.

3. Certified payroll documentation Pursuant to Article 8, Section 220 of the NYS Labor Law

4. Copies of EPA/NYSDOL Asbestos Certificates for all Workers and Supervisors employed on the Project.

5. Copies of Medical Approval and Respirator Fit-testing for all Asbestos Workers and Supervisors employed on the Project.

6. Copies of Abatement Contractors Daily Sign-In Sheets & Logs for persons entering and leaving the work area. – Title 12 NYCRR Part 56-7.3.

7. Copies of Abatement Contractor's personal air sampling laboratory results.

8. The amounts and type of asbestos materials that was removed, enclosed, encapsulated, or disturbed.

9. The name and address of the deposit or waste disposal site or sites where the asbestos waste materials were deposited or disposed of and all related manifests, receipts and other documentation associated with the disposal of asbestos waste.

10. The name and address of any transporters used to transport waste and all related manifests, receipts and other documentation associated with the transport of asbestos waste.

11. All other information that may be required by state, federal or local regulations.

12. Copy of the Supervisor's Daily Project Log of events as described in 1.03 B, above.

1.04 NOTIFICATIONS AND PERMITS

A. The Abatement Contractor shall be required to prepare and submit notifications to the following agencies at least ten (10) days and/or business days, as required prior to the commencement of the project:

1. Asbestos NESHAPS Contact
   U.S. Environmental Protection Agency
   NESHAPS Coordinator, Air Facilities Branch
   26 Federal Plaza
   New York, New York 10007
   (212) 264-7307

2. State of New York Department of Labor
   Division of Safety and Health
   Asbestos Control Bureau
   State Office Building Campus, Building 12, Room 454
   Albany, New York 12240

3. Owner(s): Rye CSD
   555 Theodore Fremd Avenue, Suite B-101
   Rye, NY 10580
   ATTN: Robert Gimigliano, Director of Facilities & Operations
   Ph. (914) 967-6100
   Fx. (914) 967-6957
   E-mail. Gimigliano.Robert@ryeschools.org

4. Environmental Consultant(s): Quality Environmental Solutions & Technologies, Inc. (QuES&T)
   1376 Route 9
   Wappingers Falls, New York 12590
   ATTN: Anthony Perre
   Ph. (845) 298-6031
   Fx. (845) 298-6251
   E-mail. aperre@qualityenv.com

B. The notification shall include but not be limited to the following information:

1. Name and address of Owner.

2. Name, address, and asbestos handling license number of the Abatement Contractor.

3. Address and description of the building, including size, age, and prior use of the building or area; the amount, in square feet or linear feet of asbestos material to be removed; room designation numbers or other local information where asbestos material is found, including the type of asbestos material (friable or non-friable).

4. Scheduled starting and completion dates for removal.

5. Methods to be employed in abating asbestos containing materials.

6. Procedures and equipment, including ventilating/exhaust systems, that will be employed to comply with the Code of Federal Regulation (CFR) Title 40, Part 61 of the U.S. Environmental Protection Agency.

7. The name and address of the carting company and of the waste disposal site where the asbestos waste will be deposited.

NOTE: Notifications shall be submitted using standard forms as may be used by the respective agency.

For DOL (NYS) include "Asbestos Project Notification" form (DOSH-483) with proper fee, if required. For EPA include "Notification of Demolition and Renovation"; 40 CFR Part 61.

C. The Abatement Contractor shall secure any permits required by the city, town, county, or state that may be required and the cost for obtaining the permit shall be included in his base bid.

D. The Abatement Contractor shall erect warning signs around the work space at every point of potential entry into the work area in accordance with OSHA 1926.58k (2), (i). These signs shall bear the following information:

DANGER

CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA

E. The Abatement Contractor shall post at entrances to the work place and immediate adjacent areas, notifications to building occupants which include the name and license number of the contractor, project location and size, amount and type of ACM, abatement procedures, dates of expected occurrence and name and address of the air monitor and laboratory in compliance with ICR 56-3.6.

F. The Abatement Contractor shall post a list of emergency telephone numbers at the job site which shall include the Owner's Representative, police, emergency squad, local hospital, Environmental Protection Agency, N.Y. State Department of Labor, Occupational Safety and Health Administration and the local Department of Health.

1.05 APPLICABLE STANDARDS

Except to the extent that more explicit or more stringent requirements are written directly into the contract documents, applicable standards of the construction industry have the same force and effects (and are made a part of contract documents by reference) as if copied directly into contract documents, or as if published copies were bound herewith. Resolution of overlapping and conflicting requirements, which result from the application of several different industry standards to the same unit of work, shall be by adherence to the most stringent requirement.

A. Applicable standards listed in these Specifications form a part of this Specification and include, but are not necessarily limited to, standards promulgated by the following agencies and organizations:

1. ANSI:

American National Standards Institute
1430 Broadway
New York, New York 10018

2. ASHRAE:
   American Society for Heating, Refrigerating
   and Air Conditioning Engineers
   1791 Tullie Circle NE
   Atlanta, Georgia 30329

3. ASTM:
   American Society for Testing and Materials
   1916 Race Street
   Philadelphia, Pennsylvania 19103

4. CFR
   Code of Federal Regulations Available
   from Government Printing Office
   Washington, District of Columbia 20402

5. CGA
   Compressed Gas Association
   1235 Jefferson Davis Highway
   Arlington, Virginia 22202

6. CS
   Commercial Standard of NBS
   (US Dept. of Commerce)
   Government Printing Office

7. EPA
   Environmental Protection Agency, Region II
   26 Federal Plaza
   New York, New York 10007
   Asbestos Coordinator - Room 802
   (212) 264-9538
   Part 61, Sub-Parts A & B
   National Emission Standard for Asbestos

8. FEDERAL SPECS
   Federal Specification (General Services Administration)
   7th and D Street, SW
   Washington, District of Columbia 20406

9. NBS
   National Bureau of Standards
   (US Department of Commerce)
   Gaithersburg, Maryland 20234

10. NEC
    National Electrical Code (by NFPA)

11. NFPA

National Fire Protection Association
Batterymarch Park
Quincy, Massachusetts 02269

12. NIOSH
    National Institute for Occupational Safety and Health
    26 Federal Plaza
    New York, New York 10007

13. NYSDOH
    New York State Department of Health
    Bureau of Toxic Substance Assessment
    Room 359 - 3rd Floor
    Tower Building Empire State Plaza
    Albany, New York 12237

14. NYSDEC
    New York State Department of Environmental Conservation
    Room 136
    50 Wolf Road
    Albany, New York 12233-3245

15. NYSDOL
    State of New York Department of Labor
    Division of Safety and Health
    Asbestos Control Program
    State Campus
    Building 12
    Albany, New York 12240

16. OSHA
    Occupational Safety and Health Administration
    (US Department of Labor)
    New York Regional Office - room 3445
    1515 Broadway
    New York, New York 10036

17. UL
    Underwriters Laboratories
    333 Pfingsten Road
    Northbrook, Illinois 60062

B. Federal Regulations: Those which govern asbestos abatement work or hauling and disposal of asbestos waste materials:

1. U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA):

   a. Asbestos Regulations
      Title 29, Part 1910, of the Code of Federal Regulations.

b. Respiratory Protection
Title 29, Part 1910, Section 134 of the Code of Federal Regulations.

c. Construction Industry
Title 29, Part 1926, of the Code of Federal Regulations.

d. Access to Employee Exposure & Medical Records
Title 29, Part 1910, Section 20 of the Code of Federal Regulations.

e. Hazard Communication
Title 29, Part 1910, Section 1200 of the Code of Federal Regulations.

f. Specifications for Accident Prevention Signs and Tags
Title 29, Part 1910, section 145 of the Code of Federal Regulations.

2. U.S. Environmental Protection Agency (EPA):

a. Asbestos Hazard Emergency Response Act (AHERA) Regulation Asbestos Containing Materials in Schools Final Rule & Notice Title 40, Part 763, Subpart E of the Code of Federal Regulations.

b. Worker Protection Rule
40 CFR Part 763, Subpart G, CPTS 62044, FLR 2843-9
Federal Register, Vol. 50, No. 134, 7/12/85, P28530-28540

c. Regulation for Asbestos
Title 40, Part 61, Subpart A of the Code of Federal Regulations

d. National Emission Standard for Asbestos
Title 40, Part 61, Subpart M (Revised Subpart B) of the Code of Federal Regulations

e. Resource Conservation and Recovery Act (RCRA) 1976, 1980
Hazardous and Solid Waste Amendments (HSWA) 1984
Subtitle D, Subtitle C

3. U.S. Department of Transportation (DOT):

a. Hazardous Substances: Final Rule Regulation 49 CFR, Part 171 and 172.

C. State Regulations: Those which govern asbestos abatement work or hauling and disposal of asbestos waste materials:

1. New York State Department of Environmental Conservation (DEC) Regulations regarding waste collection registration. Title 6, Part 364 of the New York State Official Compilation of Codes, Rules and Regulations - 6NYCRR 364.

2. New York State Right-To-Know Law

3. New York State Department of Labor Asbestos Regulations Industrial Code Rule 56.

4. New York State Department of Health, Title 10 Part 73 Asbestos Safety Program Requirements.

D. Standards: Those which govern asbestos abatement work or hauling and disposal of asbestos waste materials:

1. American National Standards Institute (ANSI)

   a. Fundamentals Governing the Design and Operation of Local Exhaust Systems Publication Z9.2-79
   b. Practices for Respiratory Protection Publication Z88.2-80

E. Guidance Documents: Those that discuss asbestos abatement work or hauling and disposal of asbestos waste materials are listed below only for the Abatement Contractor's information. These documents do not describe the work and are not a part of the work of this contract.

EPA:

1. Guidance for Controlling Asbestos Containing Materials in Buildings (Purple Book) EPA560/5-85-024.

2. Asbestos Waste Management Guidance EPA 530-SW-85-007.

F. Patents and Royalties: The Abatement Contractor shall pay all royalties and/or license fees. The Abatement Contractor shall defend all suits and claims for infringement of any patent rights and save the Owner and Consultant harmless from loss including attorney fees on account thereof.

1.06 DEFINITIONS

As used in or in connection with these specifications the following are terms and definitions.

Abatement - Procedure to control release from asbestos material. This includes removal, encapsulation and enclosure.

Aggressive sampling - A method of sampling in which the person collecting the air sample creates activity by the use of mechanical equipment during the sampling period to stir up settled dust and simulate activity in that area of the building.

AIHA - The American Industrial Hygiene Association, 475 Wolf Ledges Parkway, Akron, Ohio 44311.

Airlock - A system for permitting entrance and exit while restricting air movement between a containment area and an uncontaminated area. It consists of two curtained doorways separated by a distance of at least three feet such that one passes through one doorway into the airlock,

allowing the doorway sheeting to overlap and close off the opening before proceeding through the second doorway, thereby preventing flow-through contamination.

Air sampling - The process of measuring the content of a known volume of air collected during a specific period of time.

Amended water - Water to which a surfactant has been added.

Approved asbestos safety program - A program approved by the Commissioner of Health providing training in the various disciplines that may be involved in an asbestos project.

Area air sampling - Any form of air sampling or monitoring where the sampling device is placed at some stationary location.

Asbestos - Any naturally occurring hydrated mineral silicate separable into commercially usable fibers, including chrysotile (serpentine), amosite (cumingtonite-gunerite), crocidolite (riebeckite), tremolite, anthophyllite and actinolite.

Asbestos contract - An oral or written agreement contained in one or more documents for the performance of work on an asbestos project and includes all labor, goods and service.

Asbestos handler - An individual who installs, removes, applies, encapsulates, or encloses asbestos or asbestos material, or who disturbs friable asbestos. Only individuals certified by NYS Department of Labor shall be acceptable for work under this specification.

Asbestos handling certificate - A certificate issued by the Commissioner of Labor of the State of New York, to a person who has satisfactorily completed an approved asbestos safety program.

Asbestos project - Work undertaken by a contractor which involves the installation, removal, encapsulation, application or enclosure of any ACM or the disturbance of friable ACM.

Asbestos Safety Technician (AST) - Individual designated to represent the Consultant, perform third party monitoring and perform compliance monitoring at the job site during the asbestos project.

Asbestos waste material - Asbestos material or asbestos contaminated objects requiring disposal.

Authorized visitor - The building owner, his or her representative or any representative of a regulatory or other agency having jurisdiction over the project.

Background level monitoring - A method used to determine ambient airborne concentrations inside and outside of a building or structure prior to starting an abatement project.

Building owner - The person in whom legal title to the premises is vested unless the premises are held in land trust, in which instance Building Owner means the person in whom beneficial title is vested.

Clean room - An uncontaminated area or room that is a part of the personal decontamination enclosure with provisions for storage of persons' street clothes and protective equipment.

Cleanup - The utilization of HEPA vacuuming to control and eliminate accumulations of asbestos material and asbestos waste material.

Clearance air monitoring - The employment of aggressive sampling techniques with a volume of air collected to determine the airborne concentration of residual fibers upon conclusion of an asbestos abatement project.

Commissioner - Commissioner of the New York State Department of Labor.

Contractor - A company, unincorporated association, firm, partnership or corporation and any owner or operator thereof, which engages in an asbestos project or employs persons engaged in an asbestos project.

Curtained doorway - A device that consists of at least three overlapping sheets of plastic over an existing or temporarily framed doorway. One sheet shall be secured at the top and left side, the second sheet at the top and right side, and the third sheet at the top and the left side. All sheets shall have weights attached to the bottom to insure that the sheets hang straight and maintain a seal over the doorway when not in use.

Decontamination enclosure system - A series of connected rooms, separated from the work area and from each other by air locks, for the decontamination of persons, materials, equipment, and authorized visitors.

Encapsulant (sealant) or encapsulating agent - A liquid material that can be applied to asbestos material and which prevents the release of asbestos from the material by creating a membrane over the surface.

Enclosure - The construction of airtight walls, ceilings and floors between the asbestos material and the facility environment, or around surfaces coated with asbestos materials, or any other appropriate procedure that prevents the release of asbestos materials.

Equipment room - A contaminated area or room that is part of the personal decontamination enclosure system with provisions for the storage of contaminated clothing and equipment.

Fixed object - A unit of equipment, furniture or other fixture in the work area which cannot be readily removed from the work area.

Friable Asbestos Material - That condition of crumbled, pulverized, powdered, crushed or exposed asbestos capable of being released into the air by hand pressure.

Friable material containment - The encapsulation or enclosure of any friable asbestos material.

Glovebag technique - A method for removing asbestos material from heating, ventilating, and air conditioning (HVAC) ducts, piping runs, valves, joints, elbows, and other nonplanar surfaces in a noncontained work area. The glovebag assembly is a manufactured device consisting of a glovebag constructed of at least six mil transparent plastic, two inward-projecting longsleeve gloves, which may contain an inward projecting waterwand sleeve, an internal tool pouch, and an attached, labeled receptacle or portion for asbestos waste.

The glovebag is constructed and installed in such a manner that it surrounds the object or area to be decontaminated and to contain all asbestos fibers released during the abatement process.

HEPA filter - A high efficiency particulate air filter capable of trapping and retaining 99.97 percent of particulate greater than 0.3 microns equivalent aerodynamic diameter.

HEPA vacuum equipment - Vacuuming equipment with a high efficiency particulate air filtration system.

Holding area - A chamber in the waste decontamination enclosure located between the washroom and an adjacent uncontaminated area.

Homogeneous work area - A site within the abatement work area that contains one type of asbestos material and where one type of abatement is used.

Large asbestos project - An asbestos project involving the installation, removal, disturbance, enclosure, or encapsulation of 160 square feet or more of asbestos or asbestos material or 260 linear feet or more of asbestos or asbestos material.

Minor asbestos project - An asbestos project involving the installation, removal, disturbance, enclosure, or encapsulation of 10 square feet or less of asbestos or asbestos material, or 25 linear feet or less of asbestos or asbestos material.

Movable object - A unit of equipment, furniture or fixture in the work area that can be readily removed from the work area.

Negative air pressure equipment - A local exhaust system equipped with HEPA filtration. The system shall be capable of creating and maintaining a negative pressure differential between the outside and the inside of the work area.

Non-asbestos material - Any material containing one percent or less asbestos by weight.

Occupied area - Any frequented portion of the work site where abatement is not taking place.

Outside air - The air outside the building or structure.

Personal air monitoring - A method used to determine an individuals exposure to airborne contaminants. The sample is collected outside the respirator in the person's breathing zone.

Plasticize - To cover floors, walls, ceilings and other surfaces with 6 mil fire retardant plastic sheeting as herein specified.

Project - Any form of work performed in connection with the abatement of asbestos or alteration, renovation, modification or demolition of a building or structure that may disturb asbestos or asbestos material.

Removal - The stripping of any asbestos material.

Repair - Corrective action using required work practices to control fiber release from damaged areas.

Respiratory protection - Respiratory protection required of licensed asbestos workers and authorized visitors in accordance with the applicable laws.

Satisfactory clearance air monitoring results - For all post- abatement samples, airborne concentrations of total fibers that are less than 0.01 fibers per cubic centimeter or background levels, whichever are greater, using phase contrast microscopy (PCM).

Shower room - A room between the clean room and the equipment room in the personal decontamination enclosure with hot and cold running water controllable at the top and arranged for complete showering during decontamination.

Small asbestos project - An asbestos project involving the installation, removal, disturbances, enclosure, or encapsulation of more than 10 and less than 160 square feet of asbestos or asbestos material of more than 25 and less than 260 linear feet of asbestos or asbestos material.

Staging area - The area near the waste transfer airlock where containerized asbestos waste has been placed prior to removal from the work area.

Surfactant - A chemical wetting agent added to water to improve its penetration.

Visible emissions - An emissions of particulate material that can be seen without the aid of instruments.

Washroom - A room between the work area and the holding area in the waste decontamination enclosure system, where equipment and waste containers are wet cleaned and/or HEPA vacuumed.

Waste decontamination enclosure system - An area, consisting of a washroom and a holding area, designated for the controlled transfer of materials and equipment.

Wet cleaning - The process of eliminating asbestos contamination from surfaces, equipment or other objects by using cloths, mops, or other cleaning tools.

Work area - Designated rooms, spaces, or areas where asbestos abatement takes place.

Work site - Premises where asbestos abatement is taking place.

Work Surface - Substrate surface from which asbestos-containing material has been removed.

1.07 UTILITIES, SERVICE AND TEMPORARY FACILITIES

A. The Owner shall make available to the Abatement Contractor all reasonable amounts of water and electrical power at no charge.

B. The Abatement Contractor shall provide, at his own expense, all electrical, water, and waste connections, extensions, and construction materials, supplies, etc. All connections must be

approved in advance by the Owner and all work relative to the utilities must be in accordance with the applicable building codes.

C. The Abatement Contractor shall provide scaffolding, ladders and staging, etc. as necessary to accomplish the work of this contract. The type, erection and use of all scaffolding, ladders and staging, etc. shall comply with all applicable OSHA provisions.

D. All connections to the Owner's water system shall include reduced pressure backflow protection or double check and double gate valves. Valves shall be temperature and pressure rated for operation of the temperatures and pressures encountered. After completion of use, connections and fittings shall be removed without damage or alteration to existing water piping and equipment. Leaking or dripping valves shall be piped to the nearest drain or located over an existing sink or grade where water will not damage existing finishes or equipment.

E. The Abatement Contractor shall use only heavy duty abrasion resistant hoses with a pressure rating greater than the maximum pressure of the water distribution system to provide water to each work area and to each decontamination unit. Provide fittings as required to allow for connection to existing wall hydrants or spouts, as well as temporary water heating equipment, branch piping, showers, shut-off nozzles and equipment. All water must be shut off at the end of each shift.

F. The Abatement Contractor shall provide service to decontamination unit electrical subpanel with minimum 60 amp, 2 pole circuit breaker or fused disconnect and ground-fault circuit interrupters (GFCI), reset button and pilot light, connected to the building's main distribution panel. Subpanel and disconnect shall be sized and equipped to accommodate all electrical equipment required for completion of the work. This electrical subpanel shall be used for hot water heater, PAPR battery recharging and air sampling pumps.

G. The Abatement Contractor shall provide UL rated 40-gallon electric hot water heater to supply hot water for the decontamination unit shower. Activate from 30 amp circuit breaker on the electrical subpanel located within the decontamination unit. Provide with relief valve compatible with water heater operation; relief valve down to drip pan on floor with type L copper. Wiring of the hot water heater shall be in compliance with NEMA, NEC, and UL standards.

H. The Abatement Contractor shall provide identification warning signs at power outlets, which are other than 110-120 volt power. Provide polarized outlets for plug-in type outlets, to prevent insertion of 110-120 plugs into higher voltage outlets. Dry transformers shall be provided where required to provide voltages necessary for work operations. All outlets or power supplies shall be protected by ground fault circuit interrupter (GFCI) at the power source.

I. The Abatement Contractor shall use only grounded extension cords; use "hard-service" cords where exposed to abrasion and traffic. Use single lengths or use waterproof connectors to connect separate lengths of electric cords, if single lengths will not reach areas of work.

J. The Abatement Contractor shall provide general service incandescent lamps of wattage indicated or required for adequate illumination; Protect lamps with guard cages or tempered glass enclosures; Provide exterior fixtures where fixtures are exposed to moisture.

K. The Abatement Contractor shall provide temporary heat or air conditioning as necessary to maintain comfortable working temperatures inside and immediately outside the work areas.

Heating and A/C equipment shall have been tested and labeled by UL, FM or another recognized trade association related to the fuel being used. Fuel burning heaters shall not be used inside containment areas. The Contractor shall also provide a comfortable working environment for occupied areas that are impacted by the asbestos removal.

L. The Abatement Contractor shall comply with recommendations of the NFPA standard in regard to the use and application of fire extinguishers. Locate fire extinguishers where they are most convenient and effective for their intended purpose, but provide not less than one extinguisher in each work area, equipment room, clean room and outside the work area.

1.08 REMOVAL OF FIXTURES

A. In locations where the Abatement Contractor is directed to dispose of fixtures he shall either decontaminate the fixtures and dispose of them as non-asbestos containing materials or he shall place them in an appropriate container and dispose of them as asbestos containing material.

B. In locations where the Abatement Contractor is directed to remove and reinstall fixtures, the fixtures shall be removed, decontaminated, labeled, protected with plastic and stored by the contractor in a location as directed by the Owner.

C. Upon completion of the asbestos removal and upon receiving satisfactory clearance air monitoring results, all items to be replaced shall be restored to their original location and reinstalled by the Abatement Contractor.

PART 2 – PRODUCTS

2.01 MATERIALS AND EQUIPMENT

A. GENERAL REQUIREMENTS

1. Materials shall be stored off the ground, away from wet or damp surfaces and under protective cover to prevent damage or contamination.

2. Damaged or deteriorating materials shall not be used and shall be removed from the premises.

3. Power tools used to drill, cut into, or otherwise disturb asbestos material shall be equipped with HEPA filtered local exhaust ventilation.

4. The Abatement Contractor shall make available to authorized visitors, ladders and/or scaffolds of sufficient dimension and quantity so that all work surfaces can be easily and safely reached for inspection. Scaffold joints and ends shall be sealed with tape to prevent incursion of asbestos. Scaffolds and ladders shall comply with all applicable codes.

B. PLASTIC BARRIERS (POLYETHYLENE)

1. In sizes and shapes to minimize the number of joints.

   a. Six mil. (.006") fire-retardant for vertical protection (walls, entrances and openings).

b. Six mil. (.006") fire-retardant for horizontal protection (fixed equipment) and heating grilles.

c. Six mil. (.006") reinforced fire-retardant for floors of decon units.

2. Provide two (2) layers over all roof, wall and ceiling openings. Floor penetrations shall be sealed with a rigid material prior to plasticizing to prevent tripping and fall hazards. All seams within a layer shall be separated by a minimum distance of six feet and sealed airtight. All seams between layers shall be staggered.

3. Barrier Attachment - Commercially available duct tape (fabric or paper) and spray-on adhesive. Duct tape shall be capable of sealing joints of adjacent sheets of plastic, facilitating attachment of plastic sheets to finished or unfinished surfaces of dissimilar materials and adhering under both dry and wet conditions.

C. SIGNS

1. Danger signs shall be provided and shall conform to 29 CFR 1926.1101 and be 14" x 20". These signs shall bear the following information:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
RESPIRATORS AND PROTECTIVE
CLOTHING
ARE REQUIRED IN THIS AREA

D. DANGER LABELS AND TAPE

1. Labels shall be affixed to any asbestos contaminated material in accordance with the requirements of 29 CFR 1910.1200 (f) of OSHA's Hazard Communication Standard, and shall contain the following information:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID BREATHING DUST
CANCER AND LUNG DISEASE HAZARD

2. A label shall be affixed on each container of asbestos waste in accordance with the requirements of 49 CFR Parts 171 and 172, Hazardous Substances; Final Rule (U.S. Department of Transportation), and shall contain the following information:

RQ HAZARDOUS SUBSTANCE
SOLID, NOS, ORM-E, NA 9188
(ASBESTOS)

3. A label shall be affixed on each container of asbestos waste in accordance with the requirements of 40 CFR Part 61.150, NESHAP; Asbestos; Final Rule (USEPA) and shall contain the name of the waste generator and the location at which the waste was generated.

   NOTE: All containers marked as above (1,2 and 3) shall be disposed of as asbestos waste.

4. Provide 3" red barrier tape printed with black lettered "DANGER ASBESTOS REMOVAL". Locate barrier tape across all corridors, entrances and access routes to asbestos work area.

E. PROTECTIVE EQUIPMENT

1. Respiratory Requirements

   a. Where fiber levels permit, and in compliance with regulatory requirements, Powered Air Purifying Respirators are the minimum allowable respiratory protection permitted to be utilized during removal operations.

   b. Where not in violation of NIOSH, OSHA, and any other regulatory requirements, the Abatement Contractor shall provide the following minimum respiratory protection to the maximum use concentrations indicated:

MSHA/NIOSH Approved Respiratory Protection	Maximum Use Concentration
Half-Mask Air Purifying with HEPA Filters	10x PEL
Full-Facepiece Air Purifying HEPA Filters and Quantitative Fit Test	10x PEL
Powered Air Purifying (PAPR), Loose fitting Helmet or Hood, HEPA Filter	25x PEL
Powered Air Purifying (PAPR), Full Facepiece, HEPA Filter	50x PEL
Supplied Air, Continuous Flow Loose fitting Helmet or Hood	25x PEL
Supplied Air, Continuous Flow	50x PEL

Full Facepiece, HEPA Filter	
Full Facepiece-Supplied Air Pressure Demand, HEPA Filter	100x PEL
Full Facepiece-Supplied Air Pressure Demand, with Aux. SCBA, Pressure Demand or Continuous Flow	>100x PEL

2. Disposable Clothing -"Tyvek" manufactured by Dupont or approved equal.

3. NIOSH approved safety goggles to protect eyes.

4. Polyethylene bags, 6 mil. (.006") thick (use double bags).

NOTE: Workers must wear disposable coveralls and respirator masks at all times while in the work area. Contaminated coveralls or equipment must be left in work area and not worn into other parts of the building.

F. TOOLS AND EQUIPMENT

1. Airless Sprayer - An airless sprayer, suitable for application of encapsulating material, shall be used.

2. Scaffolding - Scaffolding, as required to accomplish the specified work, shall meet all applicable safety regulations.

3. Transportation Equipment - Transportation equipment, as required, shall be suitable for loading, temporary storage, transport and unloading of contaminated waste without exposure to persons or property. Water tight, hard wall containers shall be provided to retain and dispose of any asbestos waste material with sharp-edged components that may tear plastic bags or sheeting. The containers shall be marked with danger labels.

4. Surfactant - Wetting Agents - "Asbestos-Wet" - Aquatrols Corp. of America or approved equal, and shall be non- carcinogenic.

5. Portable (negative air pressure) asbestos filtration system - by Micro-Trap, or approved equal.

6. Vacuum, HEPA type equal to "Nilfisk" #GA73, or "Pullman/Holt" #75 ASA.

7. Amended Water Sprayer - The water sprayer shall be an airless or other low-pressure sprayer for amended water application.

8. Other Tools and Equipment - The Abatement Contractor shall provide other suitable tools for the stripping, removal, encapsulation, and disposal activities including but not limited to: hand-held scrapers, nylon brushes, sponges, rounded edge shovels, brooms, and carts.

PART 3 – EXECUTION

3.01 PRE-ABATEMENT WORK AREA PREPARATION

A. The work area shall be vacated by the occupants prior to work area preparation and not reoccupied until satisfactory clearance air monitoring results have been achieved.

B. Caution signs shall be posted at all locations and approaches to a location where airborne concentrations of asbestos may exceed ambient background levels. Signs shall be posted that permit a person to read the sign and take the necessary protective measures to avoid exposure.

C. Shut down and lock out electric power to all work areas. The Abatement Contractor shall provide temporary power and lighting and ensure safe installation of temporary power sources and equipment used where high humidity and/or water shall be sprayed in accordance with all applicable codes. All power to work areas shall be brought in from outside the area through a ground-fault interrupter at the source.

D. Isolate the work area HVAC system.

E. The personnel decontamination enclosure system shall be installed or constructed prior to preparatory work in the work area and in particular before the disturbance of asbestos material. The waste decontamination enclosure system shall be installed or constructed prior to commencement of abatement activities.

F. Movable objects within the work area shall be pre-cleaned using HEPA filtered vacuum equipment and/or wet cleaning and such objects shall be removed from the work area to an uncontaminated location. If disposed of as asbestos waste material, cleaning is not required.

G. Fixed objects and other items, which are to remain within the work area, shall be pre-cleaned using HEPA filtered vacuum equipment and/or wet cleaning. Such objects shall be enclosed with two layers of at least six mil plastic sheeting and sealed with tape.

H. The work area shall be pre-cleaned using HEPA filtered vacuum equipment and/or wet cleaning. Methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters, shall be prohibited. Asbestos material shall not be disturbed during pre-cleaning.

I. Isolation barriers that seal off all openings, including windows, corridors, doorways, ducts, and any other penetrations of the work area, shall be constructed using two layers of at least six mil fire-retardant plastic sheeting sealed with tape. Also, all seams in mechanical system components that pass through the work area shall be sealed. Doorways and corridors, which shall not be used for passage during work, shall also be sealed.

J. Removal of mounted objects. After isolation barriers are in place, objects such as light fixtures, electrical track, alarm systems, ventilation equipment and other items not previously sealed, shall be double sealed with six mil fire-retardant plastic sheeting. Localized HEPA filtered vacuum equipment shall be used during fixture removal to reduce asbestos dispersal.

K. Individual roof and floor drains shall be sealed water tight using two layers of 6-mil fire-retardant

plastic sheeting and tape prior to plasticizing. Openings in floor shall be fully covered with plywood sheeting secured to the floor in such a way as to minimize a tripping hazard prior to plasticizing.

L. Emergency and fire exits from the work area shall be maintained or alternate exits shall be established according to all applicable codes.

M. Adequate toilet facilities shall be supplied by the Abatement Contractor and shall be located either in the clean area of the personnel decontamination enclosure or shall be readily accessible to the personnel decontamination enclosure.

3.02 LARGE ASBESTOS PROJECT PERSONNEL DECONTAMINATION ENCLOSURE SYSTEM (ICR 56-7.5)

A. The personnel decontamination enclosure shall be constructed prior to preparatory work in the work area and, in particular, before the disturbance of asbestos material.

1. Construction and use of personnel decontamination enclosure systems shall be in accordance with ICR-56 and any Applicable or Site Specific Variances utilized on this project. Such systems may consist of existing rooms outside of the work area, if the layout is appropriate, that can be enclosed is plastic sheeting and are accessible from the work area. When this situation does not exist, enclosure systems may be constructed out of metal, wood or plastic support.

2. The personnel decontamination enclosure system shall consist of a clean room, a shower room, and an equipment room, in series, separated from each other and from the work area by three airlocks.

3. There shall be one shower per six full shift abatement persons calculated on the basis of the largest shift.

4. The personnel decontamination enclosure system shall be fully framed, sheathed for safety and constructed to prevent unauthorized entry.

5. Personnel decontamination enclosure systems constructed at the work site shall utilize at least six mil fire-retardant opaque plastic sheeting. At least two layers of six mil fire-retardant reinforced plastic sheeting shall be used for the flooring of this area.

6. All prefabricated decontamination units shall be completely decontaminated and sealed prior to separation and removal from the work area. Mobile decontamination units shall remain in place until satisfactory clearance results have been attained.

7. The clean room shall be sized to accommodate all authorized persons. Benches, lockers and hooks shall be provided for street clothes. Shelves for storing respirators shall also be provided. Clean clothing, replacement filters for respirators, towels and other necessary items shall be provided. The clean room shall not be used for the storage of tools, equipment or materials. It shall not be used for office space. A lockable door shall be provided to permit access to the clean room from outside the work area or enclosure. It shall be used to secure the work area and decontamination enclosure during off-shift hours.

8. The shower room shall contain one or more showers. Each shower head shall be supplied with hot and cold water adjustable at the tap. The shower enclosure shall be constructed to ensure against leakage of any kind. Uncontaminated soap, shampoo and towels shall be available at all times. Shower water shall be drained, collected and filtered through a system with at least 5.0 micron particle size collection capability. A system containing a series of several filters with progressively smaller pore sizes shall be used to avoid rapid clogging of the filtration system by large particles. Filtered wastewater shall be discharged in accordance with applicable codes. Contaminated filters shall be disposed of as asbestos waste. The shower room shall be constructed in such way that travel through the decontamination unit shall be through the shower.

9. The equipment room shall be used for the storage of equipment and tools after decontamination using a HEPA filtered vacuum and/or wet cleaning. A one day supply of replacement filters, in sealed containers, for HEPA vacuums and negative pressure ventilation equipment, extra tools, containers of surfactant and other materials and equipment that may be required during the abatement project may also be stored here. A walk-off pan filled with water shall be located in the work area just outside the equipment room for persons to clean foot covering when leaving the work area. A drum lined with a labeled, at least six mil plastic bag is required for collection of clothing and shall be located in this room. Contaminated footwear and work clothes shall be stored in this area.

3.03 WASTE DECONTAMINATION ENCLOSURE SYSTEM (ICR 56-7.5)

A. General Requirements

1. A waste decontamination enclosure system shall consist of the following:

   a. A washroom/cleanup room shall be constructed with an airlock doorway to the work area and another airlock doorway to the holding area.

   b. The holding area shall be constructed with an airlock doorway to the washroom/cleanup room and another lockable door to the outside.

2. Where there is only one egress from the work area, the holding area of the waste decontamination enclosure system may branch off from the equipment decontamination room, which doubles as a waste washroom, of the personnel decontamination enclosure.

3. The waste washroom shall be equipped with a drain installed to collect water and deliver it to the shower drain where it shall be filtered through a system with at least 5.0 micron particle size collection capability. A system containing a series of several filters with progressively smaller pore sizes shall be used to avoid rapid clogging of the filtration system by large particles. Filtered wastewater shall be discharged in accordance with applicable codes. Contaminated filters shall be disposed of as asbestos waste.

4. The waste washroom shall be constructed in such a way that travel through the rooms shall be through the waste washroom

3.04 WORK AREA ENTRY AND EXIT PROCEDURES

A. The following procedures shall be followed throughout the asbestos abatement project until

satisfactory clearance air monitoring results have been achieved:

1. All persons shall enter and exit the work area through the personnel decontamination enclosure system.

2. All persons who enter the work area or an enclosure shall sign the entry/exit log, located in the clean room, upon every entry and exit.

3. All persons, before entering the work area, or an enclosure shall read and be familiar with all posted regulations, personal protection requirements, including work area entry and exit procedures, and emergency procedures. The entry/exit log headings shall indicate, and the signatures shall be used to acknowledge, that these have been reviewed and understood by all persons prior to entry.

4. All persons shall proceed first to the clean room, remove all street clothing, store these items in clean sealable plastic bags or lockers and don coveralls, head covering, foot covering and gloves. All persons shall also don NIOSH approved respiratory protection. Clean respirators and protective clothing shall be utilized, by each person, for each separate entry into the work area. Respirators shall be inspected prior to each use and tested for proper seal using quantitative or qualitative fit checks.

5. Persons wearing designated personal protective equipment shall proceed from the clean room through the shower room to the equipment room, where necessary tools are collected and any additional clothing shall be donned, before entry into the work area.

6. Before leaving the work area, all persons shall remove gross contamination from the outside of respirators and protective clothing by brushing, wet cleaning, and/or HEPA vacuuming.

7. Persons shall proceed to the equipment room where all coveralls, head covering, foot covering and gloves shall be removed. Disposable clothing shall be deposited into labeled containers for disposal. Reusable contaminated clothing, footwear, head gear and gloves shall be stored in the equipment room when not being used in the work area.

8. Still wearing respirators, persons shall proceed to the shower area, clean the outside of the respirator and the exposed face area under running water prior to removal of the respirator, and then fully and vigorously shower and shampoo to remove residual asbestos contamination. Respirators shall be washed thoroughly with soap and water. Some types of respirators will require slight modification of these procedures. An airline respirator with HEPA filtered disconnect protection shall be disconnected in the equipment room and worn into the shower. A powered air-purifying respirator facepiece shall be disconnected from the filter/power pack assembly prior to entering the shower.

9. After showering and drying, all persons shall proceed to the clean room and don clean personal protective equipment if returning to the work area or street clothing if exiting the enclosure.

3.05 EQUIPMENT AND WASTE CONTAINER DECONTAMINATION & REMOVAL PROCEDURES

A. The following procedures shall be followed throughout the asbestos abatement project until satisfactory clearance air monitoring results have been achieved.

1. External surfaces of contaminated containers and equipment shall be cleaned by wet cleaning and/or HEPA vacuuming in the work area before moving such items into the waste decontamination enclosure system airlock by persons assigned to this duty. These work area persons shall not enter the airlock.

2. These contaminated items shall be removed from the airlock by persons stationed in the washroom during waste removal operations. These washroom persons shall remove gross contamination from the exterior of their respirators and protective clothing by brushing, HEPA vacuuming and/or wet cleaning.

3. Once in the waste decontamination enclosure system, external surfaces of contaminated containers and equipment shall be cleaned a second time by wet cleaning.

4. The cleaned containers of asbestos material and equipment are to be dried of any excessive pooled or beaded liquid, placed in uncontaminated plastic bags or sheeting and sealed airtight.

5. The clean recontainerized items shall be moved into the airlock that leads to the holding area. The washroom persons shall not enter this airlock or the work area until waste removal is finished for that period.

6. Containers and equipment shall be moved from the airlock and into the holding area by persons dressed in clean personal protective equipment, who have entered from uncontaminated areas.

7. The cleaned containers of asbestos material and equipment shall be placed in water tight carts with doors or tops that shall be closed and secured. These carts shall be held in the holding area pending removal. The carts shall be wet cleaned and/or HEPA vacuumed at least once each day.

8. The exit from the decontamination enclosure system shall be secured to prevent unauthorized entry.

9. Where the waste removal enclosure is part of the personnel decontamination enclosure, waste removal shall not occur during shift changes or when otherwise occupied. Precautions shall be taken to prevent short circuiting and cycling of air outward through the shower and clean room.

10. Containers labeled with Asbestos hazard warnings shall not be used to dispose of non asbestos waste.

3.06 ENGINEERING CONTROLS

A. Ventilation.

1. The Abatement Contractor shall employ HEPA equipped vacuums or negative air pressure equipment for ventilation as required.

2. All negative air pressure equipment ventilation units shall be equipped with HEPA filtration. The Contractor shall provide a manufacturer's test certificate for each unit documenting the capability

of trapping and retaining 99.97 percent of asbestos fibers greater than 0.3 microns equivalent aerodynamic diameter.

3. A power supply shall be available to satisfy the requirements of the total of all ventilating units.

4. On electric power failure, abatement shall stop immediately and shall not resume until power is restored and exhaust units are operating fully. On extended power failure, longer than one hour, the decontamination facilities, after the evacuation of all persons from the work area, shall be sealed airtight.

5. If extending the exhaust of the ventilation units 50 feet from the building would result in an exhaust location either in the road, blocking driveway access to the facility or within 50 feet of other buildings, a second unit will be run in series with the primary unit.

3.07 MAINTENANCE OF DECONTAMINATION ENCLOSURE SYSTEMS AND WORK AREA BARRIERS

A. GENERAL REQUIREMENTS

1. The Consultant must review and approve installation before commencement of work. Upon completion of the construction of all plastic barriers and decontamination system enclosures and prior to beginning actual abatement activities.

2. All plastic barriers inside the work area, in the personnel decontamination enclosure system, in the waste decontamination enclosure system and at partitions constructed to isolate the work area from occupied areas, shall be inspected by the asbestos supervisor at least twice daily. The barriers shall be inspected before the start of and following the completion of the day's abatement activities. Inspections and observations shall be documented in the project log.

3. Damage and defects in the barriers and/or enclosure systems shall be repaired immediately upon discovery and prior to resumption of abatement activities.

4. At any time during the abatement activities, if visible emissions are observed outside of the work area of if damage occurs to the barriers, work shall be stopped, repairs made and visible residue immediately cleaned up using HEPA vacuuming methods prior to the resumption of abatement activities.

5. The Abatement Contractor shall HEPA vacuum and/or wet clean the waste decontamination enclosure system and the personnel decontamination enclosure system at the end of each day of abatement activities.

3.08 HANDLING AND REMOVAL PROCEDURES

The Abatement Contractor may utilize existing provisions of ICR-56, Applicable Variances or a Site Specific Variance, approved by the Owner's Consultant, to permit the conduct of this work.

3.09 ABATEMENT PROCEDURES

A. AIR SAMPLING - By Owner

1. Air sampling and analysis shall be conducted according to the requirements of Subpart 56-4 before the start, during and after the completion of the asbestos removal project.

2. In addition to the requirements of Subpart 56-4, air monitoring shall be conducted in accordance with any approved job specific variance(s) or applicable variance utilized.

3. Clearance samples may be analyzed using PCM to maintain compliance with ICR-56.

4. If applicable, clearance samples will be analyzed using TEM to maintain compliance with ICR-56 and 40 CFR 763.90[i].

B. The provisions of the Applicable Variances or a Job Specific Variance shall apply only in those areas where approval has been granted by the NYS DOL and the Contractor has obtained concurrence from the Owner's Consultant. All other applicable provisions of Industrial Code Rule 56-1 through 56-12 shall be complied.

C. A copy of the NYS DOL Job Specific or Applicable Variance, if applicable, shall be conspicuously posted at the work area(s).

D. The Abatement Contractor shall construct a decontamination unit at the work site. The Abatement Contractor shall, as a minimum, comply with the requirements of 29 CFR 1926.1101(j); Hygiene facilities and practices for employees.

3.10 ENCAPSULATION PROCEDURES

The following procedures shall be followed to seal in non-visible residue, after obtaining satisfactory clearance air monitoring results, while conducting lockdown encapsulation on any surfaces which were the subject of removal or other remediation activities:

A. Only encapsulants rated as acceptable or marginally acceptable on the basis of Battelle Columbus Laboratory test procedures and rating requirements developed under the 1978 USEPA contract shall be used for lockdown encapsulation.

B. Sealants considered for use in encapsulation shall first be tested to ensure that the sealant is adequate for its intended use. A section of the work surface shall be evaluated following this initial test application of the sealant to quantitatively determine the sealant's effectiveness in terms of penetrating and locking down the asbestos fibers. The American Society of Testing and Materials (ASTM) Committee E06.21.06E on Encapsulation of Building Materials has developed a guidance document to assist in the selection of an encapsulant.

C. The encapsulant solvent or vehicle shall not contain a volatile hydrocarbon.

D. Encapsulants shall be applied using airless spray equipment.

1. Spraying is to occur at the lowest pressure range possible to minimize fiber release from encapsulant impact at the surface. It shall be applied with a consistent horizontal or vertical motion.

E. Encapsulation shall be utilized as a surface sealant once all asbestos containing materials have been removed in a work area. In no event shall encapsulant be applied to any surface that was the subject of removal or other remediation activities prior to obtaining satisfactory clearance air monitoring.

3.11 CLEANUP PROCEDURES

A. The following cleanup procedures shall be required.

1. Cleanup of accumulations of loose asbestos material shall be performed whenever enough loose asbestos materials have been removed to fill a single leak tight container of the type commensurate with the material properties. In no case shall cleanup be performed less than once prior to the close of each working day. Asbestos material shall be kept wet until cleaned up.

2. Accumulations of dust shall be cleaned off all surfaces on a daily basis using HEPA vacuum cleaning methods.

3. Decontamination enclosures shall be HEPA vacuumed at the end of each shift.

4. Accumulations of asbestos waste material shall be containerized utilizing HEPA vacuums or rubber or plastic dust pans, squeegees, or shovels. Metal shovels shall not be used to pick up or move waste.

5. Excessive water accumulation or flooding in the area shall require work to stop until the water is collected and disposed of properly.

B. The following cleanup procedures shall be required after completion of all removal activities.

1. All accumulations of asbestos waste material shall be containerized utilizing HEPA vacuums or rubber or plastic dust pan, squeegees or shovels. Metal shovels shall not be used to pick up or move waste. HEPA vacuums shall be used to clean all surfaces after gross cleanup.

2. Cleaning. All surfaces in the work area shall be HEPA vacuumed. To pick up excess liquid and wet debris, a wet purpose shop vacuum may be used and shall be decontaminated prior to removal from the work area.

3. Windows, doors, HVAC system vents and all other openings shall remain sealed. Decontamination enclosure systems shall remain in place and be utilized.

4. All containerized waste shall be removed from the work area and the holding area.

5. All tools and equipment shall be decontaminated and removed from the work area.

6. A final visual inspection and clearance air monitoring, as per the schedule for air sampling and analysis, shall be conducted.

7. The isolation barriers and decontamination unit shall be removed only after satisfactory clearance air monitoring results have been achieved.

3.12 SAFETY MONITORING – CONSULTANT:

The Consultant will designate an Asbestos Safety Technician (AST) to represent the Owner during the removal program. The AST must be on the job site at all times during abatement work. Absolutely no abatement or preparation work will occur without the presence of the AST.

The AST will conduct four (4) milestone inspections.

1. Pre-commencement inspection shall be conducted as follows:

   a. Notification in writing to the Consultant shall be made by the Abatement Contractor to request a pre-commencement inspection at least 48 hours in advance of the desired date of inspection. This inspection shall be requested prior to beginning preparatory work in another work area.

   b. The AST shall ensure that:

      i. The job site is properly prepared and that all containment measures are in place;

      ii. The designated supervisor shall present to the inspector a valid supervisor's license issued by the New York Department of Labor;

      iii. All workers shall present to the inspector a valid handler's license issued by the New York Department of Labor;

      iv. Measures for the disposal of removed asbestos material are in place and shall conform to the adopted standards;

      v. The Abatement Contractor has a list of emergency telephone numbers at the job site which shall include the monitoring firm employed by the Owner and telephone numbers for fire, police, emergency squad, local hospital and health officer.

   c. If all is in order, the AST shall issue a written notice to proceed in the field. If the job site is not in order, then any needed corrective action must be taken before any work is to commence. Conditional approvals shall not be granted.

Progress inspection shall be conducted as follows:

   a. Primary responsibility for ensuring that the abatement work progresses in accordance with these technical specifications and regulatory requirements rests with the Abatement Contractor. The AST shall continuously be present to observe the progress of work and perform required tests.

   b. If the AST observes irregularities at any time, he shall direct such corrective action as may be necessary. If the Abatement Contractor fails to take the corrective action required, or if the Abatement Contractor or any of their employees habitually and/or excessively violate the requirements of any regulation, then the AST shall inform the Owner who shall issue a Stop Work Order to the Abatement Contractor and have the work site secured until all violations are abated.

Clean-up inspections shall be conducted as follows:

   a. Notice for clean-up inspection shall be requested by the Abatement Contractor at least 24 hours

in advance of the desired date of inspection;

b. The clean-up inspection shall be conducted prior to the removal of any isolation or critical barriers and before final air clearance monitoring;

c. The AST shall ensure that:

i. The work site has been properly cleaned and is free of visible asbestos containing material and debris.

ii. All removed asbestos has been properly placed in a locked secure container outside of the work area.

d. If all is in order, the AST shall issue a written notice of authorization to remove surface barriers from the work area. All isolation barriers shall remain in place until satisfactory clearance air sampling has been completed.

4. Clearance Visual Inspection shall be conducted after the removal of non-critical plastic sheeting. The AST shall insure that:

a. The work area is free of all visible asbestos or suspect asbestos debris and residue.

b. All waste has been properly bagged and removed from the work area.

c. Should clearance visual inspection identify residual debris, as determined by the AST, the Abatement Contractor is responsible for recleaning the area at his own cost and shall bear all costs of reinspection until acceptable levels are achieved.

B. The Abatement Contractor shall be required to receive written approval before proceeding after each milestone inspection.

3.13 PERSONNEL AIR MONITORING – CONTRACTOR (29 CFR 1926.1101)

A. Personnel air monitoring shall be provided to determine both short-term (STEL) and full shift during when abatement activities occur. Personnel sampling shall be performed in each work area in order to accurately determine the concentrations of airborne asbestos to which workers may be exposed.

B. The Abatement Contractor shall have a qualified "Competent Person" (as specified in 29 CFR 1926 OSHA) to conduct personnel air monitoring.

C. The laboratory performing the air sample analysis shall be certified by NYS DOH ELAP and approved by the consultant.

D. Personnel air monitoring test results for OSHA Compliance. Results shall be posted at the work site within 24 hours of testing and copies supplied to the Owner within five (5) days of testing. Abnormalities shall be supplied to the Owner immediately.

3.14 CLEARANCE AIR MONITORING

A. Air samples will be collected in and around the work areas at the completion of abatement activities.

B. Clearance samples may be analyzed using PCM to maintain compliance with ICR-56.

C. If applicable, clearance samples will be analyzed using TEM to maintain compliance with ICR-56 and 40 CFR part 763 "Asbestos-Containing Materials in Schools; Final Rule and Notice" section 763.90.

D. ***RETESTING***
Should clearance air monitoring yield fiber concentrations above the "Clearance" criteria of either 0.01 fibers per CC and/or background levels (PCM) –OR- seventy (70) structures per square millimeter (TEM/AHERA), the Abatement Contractor is responsible for re-cleaning the area at his own cost and shall bear all costs associated with the retesting of the work area(s) including monitoring labor, sampling, analysis, etc. until such levels are achieved.

3.15 RESPIRATORY PROTECTION REQUIREMENT

A. Respiratory protection shall be worn by all individuals inside the work area from the initiation of the asbestos project until all areas have successfully passed clearance air monitoring in accordance with these specifications. The Abatement Contractor shall keep available at all times two PAPR's with new filters and charged batteries for use by authorized visitors.

B. All respiratory protection shall be MSHA/NIOSH approved in accordance with the provisions of 30 CFR Part II. All respiratory protection shall be provided by the Abatement Contractor, and used by workers in conjunction with the written respiratory protection program.

C. The Abatement Contractor shall provide respirators that meet the requirements of 29 CFR Parts 1910 and 1926.

1. Full facepiece Type C supplied-air respirators operated in pressure demand mode equipped with an auxiliary self- contained breathing apparatus, operated in pressure demand or continuous flow, shall be worn during gross removal, demolition, renovation and/or other disturbance of ACM whenever airborne fiber concentrations inside the work area are greater than 10.0 f/cc.

2. Full facepiece Type C supplied-air respirators operated in pressure demand mode with HEPA filter disconnect protection shall be work during gross removal, demolition, renovation and/or other disturbance of ACM with an amphibole content and/or whenever airborne fiber concentrations inside the work area are equal to or greater than 0.5 f/cc and less than or equal to 10.0 f/cc.

3. Full facepiece powered air-purifying respirators (PAPR) equipped with HEPA filters shall be worn during the removal, encapsulation, enclosure, repair and/or other disturbance of friable ACM if airborne fiber concentrations inside the work area are less than 0.5 f/cc. A supply of charged replacement batteries, HEPA filters and flow test meter shall be available in the clean room for use with powered air-purifying respirators. HEPA filters shall be changed daily or as flow testing indicates change is necessary. Any Type C supplied-air respirator operated in continuous flow, with HEPA filter disconnect protection, may be substituted for a powered

air-purifying respirator.

4. Loose fitting helmets or hoods with powered air-purifying respirators (PAPR) equipped with HEPA filters may be worn during the removal, encapsulation, enclosure, repair and/or other disturbance of friable ACM if airborne fiber concentrations inside the work area are less than 0.25 f/cc. A supply of charged replacement batteries, HEPA filters and flow test meter shall be available in the clean room for use with powered air-purifying respirators. HEPA filters shall be changed daily or as flow testing indicates change is necessary. Any Type C supplied-air respirator operated in continuous flow may be substituted for a powered air- purifying respirator.

5. Half-mask or full-face air-purifying respirators with HEPA filters shall be worn only during the preparation of the work area and final clean up procedures provided airborne fiber concentrations inside the work area are less than 0.1 f/cc.

6. Use of single use dust respirators is prohibited for the above respiratory protection.

D. Workers shall be provided with personally issued and individually marked respirators. Respirators shall not be marked with any equipment that will alter the fit of the respirator in any way. Only waterproof identification markers shall be used.

E. The Abatement Contractor shall ensure that the workers are qualitatively or quantitatively fit tested by an Industrial Hygienist initially and every six months thereafter with the type of respirator he/she will be using.

F. Whenever the respirator design permits, workers shall perform the positive and negative air pressure fit test each time a respirator is worn. Powered air-purifying respirators shall be tested for adequate flow as specified by the manufacturer.

G. No facial hair, which interferes with the face-to-mask sealing surface, shall be permitted to be worn when wearing respiratory protection that requires a mask-to-face seal.

H. Contact lenses shall not be worn in conjunction with respiratory protection.

I. If a worker wears glasses, a spectacle kit to fit their respirator shall be provided by the Abatement Contractor at the Abatement Contractor's expense.

J. Respiratory protection maintenance and decontamination procedures shall meet the following requirement:

1. Respiratory protection shall be inspected and decontaminated on a daily basis in accordance with OSHA 29 CFR 1910.134(b); and

2. HEPA filters for negative pressure respirators shall be changed after each shower; and

3. Respiratory protection shall be the last piece of worker protection equipment to be removed. Workers must wear respirators in the shower when going through decontamination procedures; and

4. Airline respirators with HEPA filtered disconnect shall be disconnected in the equipment room

and worn into the shower. Powered air-purifying respirator facepieces shall be worn into the shower. Filtered/power pack assemblies shall be decontaminated in accordance with manufacturers' recommendations; and

5. Respirators shall be stored in a dry place and in such a manner that the facepiece and exhalation valves are not distorted; and

6. Organic solvents shall not be used for washing of respirators.

K. No visitors shall be allowed to enter the contaminated area if they do not have their medical certification and training certificate. Authorized visitors shall be provided with suitable PAPR respirators and instructions on the proper use of respirators whenever entering the work area.

3.16 DISPOSAL OF WASTE

A. APPLICABLE REGULATIONS

1. All asbestos waste shall be stored, transported and disposed of as per, but not limited to, the following Regulations:

   a. NYS Code Rule 56

   b. U.S. Department of Transportation (DOT)
   Hazardous Substances
   Title 29, Part 171 and 172 of the code of Federal Regulations
   regarding waste collector registration

   c. Regulations regarding waste collector registration Title 6, part 364 of the New York State Official Compilation of Codes, Rules and Regulations – 6 NYCRR 364

   d. USEPA NESHAPS 40 CRF 61

   e. USEPA ASBESTOS WASTE MANAGEMENT GUIDANCE EPA/530-SW-85-007

B. TRANSPORTER OR HAULER - The Abatement Contractor shall bear full responsibility for proper characterization, transportation and disposal of all solid or liquid waste, generated during the project, in a legal manner. The Owner shall approve all transportation and disposal methods.

1. The Abatement Contractor's Transporter (hauler) and disposal site shall be approved by the Owner. The Abatement Contractor shall remove within 48 hours all asbestos waste from the site after completing the clean up.

2. The Transporter must possess and present to the Owner’s representative a valid New York State Department of Environmental Conservation Part 364 asbestos hauler’s permit to verify license plate and permit numbers. The Owner’s representative will verify the authenticity of the hauler’s permit with the proper authority.

3. The Abatement Contractor shall give 24 hour notification prior to removing any waste from the site. All waste shall be removed from site only during normal working hours. No waste may be

taken from the site without authorization from the Owner's representative.

4. The Abatement Contractor shall have the Transporter give the date and time of arrival at the disposal site.

5. The Transporter with the Abatement Contractor and Owner's consultant shall inspect all material in the transport container prior to taking possession and signing the Waste Manifest. The Transporter shall not have any off site transfers or be combined with any other off-site asbestos material.

6. The Transporter must travel directly to the disposal site with no unauthorized stops.

C. WASTE STORAGE CONTAINER

1. During loading and on site storage, the asbestos waste container shall be labeled with EPA Danger signage:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

2. The NYS DEC Hauler's Permit number shall be on both sides and back of the container.

3. The Container will not be permitted to leave the site without the proper signage.

4. A copy of the completed waste manifest shall be forwarded directly to the Owner's Consultant by the disposal facility.

5. Packaging of Non-friable Asbestos. Use of an open top container shall require written request, by the Contractor, and written approval by the Owners Representative, and be performed in compliance with all applicable regulations.

a) A chute, if used, shall be air/dust tight along its lateral perimeter and at the terminal connection to the dumpster at ground level (solid wall and top container). The upper end of the chute shall be furnished with a hinged lid, to be closed when the chute is not being used.

b) The container shall be lined with a minimum of two (2) layers of 6 mil. Fire-retardant polyethylene draped loosely over the sides so as to facilitate being wrapped over the top of the load and sealed prior to transport from the site.

c) Prior to transport from the work site the Dumpster will be disconnected from the chute and sealed air/dust tight utilizing six mil plastic and tape. The waste material will be transported as an asbestos containing material by appropriate legal methods.

6. Packaging Friable Asbestos.

   a) The container shall be a solid wall, hard top and lockable container.

   b) The container shall be locked upon arrival at the site to restrict access. Security shall be provided at the entrance to the container during the loading process and immediately locked upon completion.

   c) The interior walls, floor and ceiling shall be lined with two (2) layers of 6 mil. Fire-retardant polyethylene.

   d) The waste shall be loaded in such a manner as to protect the integrity of the individual waste packages.

   e) Prior to transport from the work site the interior of the Dumpster will sealed air/dust tight utilizing six mil plastic and tape. The waste material will be transported as an asbestos containing material by appropriate legal methods.

D. WASTE DISPOSAL MANIFEST

1. The Asbestos Waste Manifest shall be equivalent to the "Waste Shipment Record" included in 40 CFR 61. A copy of the Contractor's manifest shall be reviewed by the Owner's Consultant and shall be the only manifest used.

2. The Manifest shall be verified by the Owner's Consultant indicating that all the information and amounts are accurate and the proper signatures are in place.

3. The Manifest shall have the signatures of the Abatement Contractor and the Transporter prior to any waste being removed from the site.

4. The Manifest shall be signed by the Disposal Facility owner or operator to certify receipt of asbestos containing materials covered by the manifest.

5. A copy of the completed manifest shall be provided by the Abatement Contractor to the Owner's Consultant and remain on site for inspection.

6. Abatement Contractor shall maintain a waste disposal log which indicates load number, date and time left site, container size, type of waste, quantity of waste, name of hauler, NYS DES permit number, trailer and tractor license number, and date manifest was returned to Consultant.

7. The Disposal Facility owner or operator shall return a signed copy of the Waste Manifest directly to:

Rye CSD
555 Theodore Fremd Avenue, Suite B-101
Rye, NY 10580
ATTN: Robert Gimigliano

8. Copies of the completed Waste Manifest are to be sent by the disposal facility to the Hauler and Abatement Contractor.

9. Submit signed dump tickets and manifests with final payment request.

10. Final payment request will not be honored without signed dump ticket or manifests accounting for all asbestos waste removed from the site.

E. VIOLATIONS OF SPECIFICATIONS

1. Violations of the safety, hygiene, environmental, procedures herein, any applicable federal, state of local requirement s or failure to cooperate with the Owner's representative shall be grounds for dismissal and/or termination of this contract.

F. VIOLATIONS OF NO SMOKING POLICY

1. The Federal Pro Children Act of 1994 prohibits School District Officials from smoking in any buildings or on the grounds that is property of the School District. The District shall be considered smoke free. The School District strongly enforces its' No Smoking Policy. It is the Contractor's responsibility to inform all workers of this policy. Any worker(s) involved with this project that are found smoking or using tobacco products will be informed that they are in violation of the Federal and State Law and School Board Policy and will be removed from site.

3.17 LOCATION OF "ABATEMENT WORK"

(Please see attached Drawings for approximate locations)

1) <u>RYE HIGH SCHOOL/MIDDLE SCHOOL (INTERIOR ABATEMENTS)</u>

- Abatement Contractor is responsible for complete & total removal & disposal of approximately 1,460 SF of non-friable asbestos-containing 9"x9" floor tile & associated mastic on non-ACM slab. Tiles to be removed are both exposed and beneath existing wood casework. Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). Subsequent to final air clearance, the substrate(s) shall be washed with a neutralizing agent to prepare the substrate to accept new floor covering(s) and eliminate residual odors. See attached ACM Location Drawings for removal locations. See below for breakdown and layering systems:
  - 2nd Floor East Hallway – Exposed, on Slab (1,000 SF)
  - Classroom 303 – Exposed, on Slab (200 SF)
  - 3rd Floor Hallway Outside of 303 & 304 – Exposed, on Slab (260 SF)
- Abatement Contractor is responsible for complete & total removal & disposal of approximately 3,060 SF of non-friable asbestos-containing 1'x1' floor tile on non-ACM slab. Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). See attached ACM Location Drawings for removal locations. See below for breakdown and layering systems:
  - Classroom 301 & 302 – On Slab (300 SF)
  - 3rd Floor Hallway Outside of 301 & 302 – (960 SF)
- Abatement Contractor is responsible for complete & total removal & disposal of 1'x1' ceiling tiles with approximately 1,548 SF of non-friable asbestos-containing glue dabs on non-ACM plaster ceilings. ACM to be removed is both exposed and concealed above non-ACM suspended ceiling tiles as described below. Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). See attached ACM Location Drawings for removal locations. See below for breakdown:
  - Classrooms 301, 302 & 304 – Above Non-ACM Suspended Ceilings (1,548 SF Approx. Total)
- Abatement Contractor is responsible for removal of three (3) door frames/casings connected to friable, asbestos-containing plaster within the High School Auditorium Lobby. Doors shall be removed and stored prior to commencement of abatement activities. Abatement Contractor shall remove at least an additional one (1) foot of plaster from each side of the removed door frame, and patch/reinstall masonry to allow for installation of new doors and frames as non-abatement work. Removals shall include all materials, including the lathe, studs and/or masonry substrate. Abatement contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). See attached ACM location drawings for locations. See below for breakdown and approximate quantity of plaster to be removed:
  - Men's Toilet 103 Door (25 SF)
  - Two (2) Entrance Doors (25 SF Each, 50 SF Approximate Total)
- Abatement Contractor is responsible for complete & total removal and disposal of approximately 50 SF of friable, plaster on metal lathe and/or non-ACM masonry within Men's Bathroom 103, and for the subsequent abatement of approximately 50 SF of non-friable asbestos-containing waterproofing tar on masonry behind the removed plaster. Abatement contractor is responsible for all demolition required to access material(s), as well

as for providing all equipment necessary to access material(s). See attached ACM location drawings for approximate location. Refer to drawing A2-511 for removal details.

- Abatement Contractor is responsible for complete & total removal and disposal of the following in Men's Bathroom 103, Girl's Toilet 241B, Boy's Toilet 181, and Girl's Toilet 183:
    - Radiator/Heater, and approximately 12 SF of friable insulation/insulation board assumed to exist behind the removed unit.
    - Mirrors and approximately 12 SF of non-friable glue/mastic on plaster and/or masonry.
    - Approximately 40 LF of friable pipe insulation/fittings assumed to exist in concealed locations such as, but not limited to above plaster/sheetrock ceilings, behind plaster/sheetrock walls, within CMU wet walls, chases, soffits, plenums, etc.

  The Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). All debris generated shall be disposed of as ACM. See attached ACM location drawings for removal locations.
- Abatement Contractor is responsible for complete & total removal and disposal of the following in Women's Bathroom 105:
    - Three (3) radiators/heaters, and approximately 12 SF of friable insulation/insulation board assumed to exist behind each removed unit, as well as approximately 12 SF of non-friable asbestos containing waterproofing tar on perimeter masonry behind each removed unit.
    - Two (2) wall diffusers on friable, asbestos-containing plaster walls, as well as 1' of wall material, including lathe around perimeter of each diffuser (approx. 4 SF each)
    - Friable, asbestos containing plaster on metal lathe, behind sheetrock, in two (2) locations of toilet & associated plumbing removals. Abatement contractor is responsible for complete & total removal of all wall materials, and materials found behind walls associated with plumbing demo.

  The Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). Abatement contractor is responsible for all patching to ensure all demolition and construction required is non-ACM work. All debris generated shall be disposed of as ACM. See attached ACM location drawings for removal locations.

2) <u>RYE HIGH SCHOOL/MIDDLE SCHOOL (ROOF & EXTERIOR ABATEMENTS)</u>

- Abatement Contractor is responsible for complete & total removal and disposal of approximately 570 SF of non-friable, asbestos containing roof flashing tar, as indicated on attached ACM Location Drawings. ACM flashing tar exists on flashings to roof perimeter, adjacent building facades, and all installed equipment, on non-ACM masonry and metal, and on non-ACM concrete roof deck. All removals shall be to their respective substrate(s) and shall be at least eighteen (18) inches from the edge of the roof or equipment. All layers above ACM tar shall be removed and disposed of as ACM. Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s).
- Abatement Contractor is responsible for complete & total removal and disposal of approximately 50 LF of non-friable asbestos-containing caulk from two (2) windows outside of the 3rd floor stairwell, as described on attached ACM location drawings. Windows are to be accessed from the roof locations identified for asbestos abatement. Abatement contractor is responsible for all demolition required to access material(s) as well as for providing all labor and equipment necessary to access material(s).

END OF LOCATION OF WORK

3.18 GENERAL

A. The Abatement Contractor will be responsible for repairing all building components damaged during abatement including, but not limited to: ceiling tiles, ceiling finishes, wall finishes, floor finishes, etc.

B. The Abatement Contractor shall be responsible for all demolition required to access materials identified in scope of work and on associated drawings.

C. Concealed conditions that are exposed and may require additional work shall be brought to the attention of the Owner immediately. The Abatement Contractor shall not abate these areas without a written notice to proceed. Additional asbestos abatement performed prior to the order to proceed will not be acknowledged.

D. The Abatement Contractor shall remove asbestos-containing floor covering to the building substrate beneath; in areas indicted. Subsequent to final air clearance the substrate shall be washed with a neutralizing agent to prepare the substrate to accept new floor covering and eliminate residual odors.

E. Power tools used to drill, cut into or otherwise disturb asbestos containing material shall be equipped with HEPA filtered local exhaust ventilation.

F. The Abatement Contractor shall provide access to GFCI electrical power, required to perform the area air monitoring for this project, within and immediately adjacent to each work area.

G. Unwrapped or unbagged ACM shall be immediately placed in an impermeable waste bag or wrapped in plastic sheeting.

H. Coordinate all removal operations with the Owner.

Asbestos Employee Medical Examination Statement

Certificate of Worker Release
Asbestos Employee Training Statement
CERTIFICATE OF WORKERS'S ACKNOWLEDGEMENT

PROJECT NAME: **Rye CSD: 2019 Capital Bond Project Phase II – Rye High School/Middle School**

CONTRACTOR'S NAME:_____

WORKING WITH ASBESTOS INVOLVES POTENTIAL EXPOSURE TO AIRBORNE ASBESTOS FIBERS. INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPES OF CANCER AND RESPIRATORY DISEASES. SMOKING CIGARETTES AND INHALATION OF ASBESTOS FIBERS INCREASES THE RISK THAT YOU WILL DEVELOP LUNG CANCER ABOVE THAT OF THE NON-SMOKING PUBLIC.

The Contract for this project requires your employer to 1) supply proper respiratory protection devices and training on their use 2) provide training on safe work practices and on use of the equipment used on the project 3) provide a medical examination meeting the requirements of 29 CFR 1926.1101. Your signature on this certificate, documents that your employer has fulfilled these contractual obligations and you understand the information presented to you.

************DO NOT SIGN THIS FORM UNLESS YOU FULLY UNDERSTAND THIS INFORMATION*********

RESPIRATORY PROTECTION: I have been trained in the proper use and limitations of the type of respiratory protection devices to be used on this project. I have reviewed the written respiratory protection program manual and a copy is available for my use. Respiratory protection equipment has been proved, by the Contractor, at no cost to me.

TRAINING COURSE: I have been trained in the risks and dangers associated with handling asbestos, breathing asbestos dust, proper work procedures, personal protection and engineering controls. I have satisfactorily completed and Asbestos Safety Training Program for New York State and have been issued a New York State Department of Health Certificate of Asbestos Safety Training.

MEDICAL EXAMINATION: I have satisfactorily completed a medical examination within the last 12 months that meets the OSHA requirement for an asbestos worker and included at least 1) medical history 2) pulmonary function 3) medical examination 4) approval to wear respiratory protection devises and may have included an evaluation of a chest x-ray.

Signature:_____Date_____

Printed Name:_____SS#:_____

Witness:_____Date:_____

Rye CSD: 2019 Capital Bond Project Phase II – Rye High School/Middle School

ESTIMATE OF ACM QUANTITIES

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EACH ABATEMENT CONTRACTOR SHALL READ AND ACKNOWLEDGE THE FOLLOWING NOTICE. A SIGNED AND DATED COPY OF THIS ACKNOWLEDGMENT SHALL BE SUBMITTED WITH THE ABATEMENT CONTRACTOR'S BID FOR THIS PROJECT. FAILURE TO DO SO MAY, AT THE SOLE DISCRETION OF THE OWNER, RESULT IN THE BID BEING CONSIDERED NON-RESPONSIVE AND RESULT IN DISQUALIFICATION OF THE ABATEMENT CONTRACTOR'S BID ON THIS PROJECT.

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*** **NOTICE** ***

The linear and square footages listed within this specification are approximates. Abatement Contractor is required to visit the work locations prior to bid submittal in order to take actual field measurements within each listed location. The Abatement Contractor shall base their bid on actual quantities determined, by them, at the site walkthrough. Estimates provided in these specifications are for informational purposes only and shall not be considered a basis for Change Orders on this project.

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Acknowledgment: I have read and understand the above **NOTICE** regarding removal quantity estimates and understand that estimates provided in these specifications are for informational purposes only and shall not be considered a basis for Change Orders on this project. The Abatement Contractor's signatory represents to the Owner that he/she has the authority of the entity he/she represents to sign this agreement on its behalf.

Company Name: _____
Type or Print

BY: _____ _____ _____
Signature Title Date

Print Name: _____

ASSOCIATED ASBESTOS REMOVAL LOCATION DRAWINGS

- ***Rye CSD: 2019 Capital Bond Project Phase II – Rye High School/Middle School***

- ***HSMS ASB-101 – Rye High School/Middle School – 1st Floor Asbestos Abatement***
- ***HSMS ASB-102 – Rye High School/Middle School – 2nd Floor Asbestos Abatement***
- ***HSMS ASB-103 – Rye High School/Middle School – 3rd Floor Asbestos Abatement***
- ***HSMS ASB-201 – Rye High School/Middle School – Roof Asbestos Abatement***

END OF SPECIFICATION
SECTION 020800

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION.
2. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.
3. WHERE PANELBOARDS, SWITCHES, CIRCUIT BREAKERS, ETC. ARE EXISTING AND TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS AND PROVIDING ALL REQUIRED AND NECESSARY MISCELLANEOUS COMPONENTS SO THAT THE EQUIPMENT SHALL BE IN PERFECT WORKING ORDER.
4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
5. ALL WORK WHERE SHOWN WITH DARK/SOLID LINES ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED. WHERE SHOWN WITH DASHED LINES WITH LETTER (E) IS EXISTING TO REMAIN, WITH LETTER (R) IS EXISTING TO BE REMOVED, WITH LETTER (ER) IS EXISTING RELOCATED, WITH LETTER (RN) IS EXISTING TO BE REPLACED WITH NEW AND WITH LETTER (RR) IS EXISTING TO BE REMOVED AND RELOCATED.
6. CIRCUIT NUMBERS TO EXISTING PANELS ARE SHOWN FOR INTENT ONLY. ACTUAL CIRCUIT NUMBERS TO BE USED SHALL BE AS PER FIELD CONDITIONS BY UTILIZING SPARE CIRCUITS, BREAKERS OR SPACES IN EXISTING PANEL, SIZE AS INDICATED ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL BALANCE LOAD OF CIRCUITS EVENLY ON ALL PHASES.
7. FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN MINIMUM $^{3}/_{4}$" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18"). IN UNFINISHED AREAS CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.
8. PROVIDE PANEL NAME PLATE MADE OF BLACK LAMINATED PLASTIC WITH WHITE ENGRAVED LETTERING AND TYPE WRITTEN DIRECTORY FOR ALL NEW AND EXISTING PANELS BEING USED FOR THIS PROJECT.
9. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.
10. PROVIDE LOCK-ON CIRCUIT BREAKERS FOR CIRCUITS SERVING EXIT SIGN FIXTURES AND EMERGENCY BATTERY PACK FIXTURES.
11. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND OTHER CEILING INSTALLED ITEMS.
12. THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH 6'-0".
13. EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION.
14. WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC.,) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND ON EXISTING CONCRETE BLOCK WALLS AND FLUSH MOUNTED IN NEW WALLS/PARTITIONS.
15. CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.
16. PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.
17. CONTRACTOR SHALL COORDINATE WITH THE FIRE DEPARTMENT AND F.A. VENDOR BEFORE PROCEEDING WITH WORK INVOLVING FIRE ALARM SYSTEM.
18. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH A DRAGWIRE.
19. THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG, EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG.
20. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.
21. THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE CONFIGURATION TYPE FOR ALL SPECIAL RECEPTACLES FOR COPIERS, DATA PROCESSING EQUIPMENT. ETC. WITH OWNER AND ENGINEER PRIOR TO ORDERING.
22. COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD. FUSES FOR ALL MOTOR LOADS SHALL BE DUAL ELEMENT TIME DELAY TYPE.
23. ALL RECEPTACLES SPECIFIED FOR PERSONAL COMPUTERS, LASER PRINTERS AND SIMILAR TYPES OF EQUIPMENT SHALL BE ISOLATED GROUND TYPE, ORANGE IN COLOR AND PROVIDED WITH A SEPARATE NEUTRAL AND GROUND CONDUCTOR. THIS IS TO COMPENSATE FOR HARMONIC CURRENTS. SHARED NEUTRAL CONDUCTORS FOR THESE HOMERUNS ARE NOT PERMITTED.
24. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
25. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING.
26. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.
27. ALL LIGHTING FIXTURES CONTROLLED BY DIMMER SWITCHES SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR.
28. ALL EMERGENCY LIGHT FIXTURES DESIGNATED 'EM' SHALL BE SWITCHED ALL EMERGENCY AND EMERGENCY LIGHT FIXTURES SHALL REVERT TO BATTERY OPERATION UPON INTERRUPTION OF NORMAL POWER AND ILLUMINATE REGARDLESS OF LIGHT SWITCH POSITION.
29. WIRING FOR P.A. SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED MANUFACTURER'S REQUIREMENTS, WIRING INDICATED ON DRAWINGS IS FOR REFERENCE ONLY. WIRING FOR P.A. SYSTEM AND CLOCKS SHALL BE PLENUM RATED AND RUN EXPOSED ABOVE ACCESSIBLE CEILINGS. IT SHALL BE RUN IN EMT CONDUIT WHERE EXPOSED, EXCEPT FOR CORRIDORS, CLASSROOMS AND OFFICES IT SHALL BE RUN IN STEEL SURFACE RACEWAY (SIMILAR TO WIREMOLD V-500 AND/OR V-700).
30. PRIOR TO ANY CHASING, CHOPPING OR CORE DRILLING BEING PERFORMED, THE CONTRACTOR SHALL FIELD INVESTIGATE CONDITIONS AND COORDINATE ALL WORK TO ENSURE THAT IT WILL BE IN HARMONY AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING OWNER PRIOR TO PROCEEDING.
31. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
32. ALL PANELBOARD COVERS SHALL BE INSTALLED IN PLACE AT THE COMPLETION OF EACH DAYS WORK.
33. PREPARE 'AS-BUILT' DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.
34. LIGHT FIXTURES SHALL BE CONSTRUCTED TO SUIT PARTICULAR TYPE OF CEILING AND WALL CONSTRUCTION AND SHALL BE PROVIDED WITH APPROPRIATE TRIMS, MOUNTING FRAMES AND ADAPTERS AS REQUIRED.
35. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

GENERAL REMOVAL NOTES

1. BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING AREAS THAT MAY BE AFFECTED BY REMOVAL. REPORT TO THE GENERAL CONTRACTOR ANY CONDITION THAT PREVENTS PERFORMANCE OF THE WORK.
2. BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS WHERE CONNECTIONS MUST BE MADE, CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE. INSPECT EACH AND EVERY AREA AFFECTED BY THE ALTERATION OF THE SPACE BEFORE SUBMITTAL OF BID.
3. ALL ELECTRICAL EQUIPMENT IN THE AREA OF WORK IS EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   A. DISTRIBUTION BOARDS AND PANELBOARDS.
   B. LIGHTING FIXTURES AND SWITCHES.
   C. CIRCUIT BREAKERS AND DISCONNECT SWITCHES.
   D. RECEPTACLES, OUTLETS AND DEVICES.
4. ALL CONDUCTORS AND CONDUIT ASSOCIATED WITH REMOVED ELECTRICAL EQUIPMENT SHALL BE REMOVED COMPLETELY BACK TO ITS SOURCE OF POWER AND DISCONNECTED.
5. ALL POWER CONDUCTORS, CONTROL WIRING AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SUCH AS FANS, AIR CONDITIONING UNITS, PUMPS, ETC. DESIGNATED FOR REMOVAL ON THE HVAC AND PLUMBING REMOVAL DRAWINGS SHALL BE REMOVED CLEAR BACK TO THE SOURCE OF POWER AND DISCONNECTED. ALL MOTOR STARTERS, DISCONNECT SWITCHES, CONTROL DEVICES, ETC. SHALL BE REMOVED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
6. CIRCUIT BREAKERS AND/OR SWITCHES IN PANELBOARD(S) OR DISTRIBUTION BOARD(S) MADE SPARE DUE TO REMOVAL SHALL BE DESIGNATED AS SUCH ON THE PANEL SCHEDULE.
7. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO TRACE AND RELOCATE ALL EXISTING FEEDERS AND BRANCH CIRCUIT WIRING WHICH PASSES THROUGH THE REMOVAL AREA THAT SERVE EXISTING OCCUPIED SPACES TO REMAIN. COORDINATE WITH BUILDING MANAGER PRIOR TO ANY SHUTDOWNS OR DISRUPTIONS THAT MAY BE REQUIRED TO ACCOMPLISH THIS WORK.
8. DISPOSE OF ALL REMOVED EQUIPMENT, WHICH IS NOT INTENDED TO BE REUSED. PRIOR TO DISPOSAL, CONTACT BUILDING MANAGER TO DETERMINE IF ANY REMOVED EQUIPMENT IS DESIRED FOR STOCK.
9. EXISTING CIRCUIT BREAKERS IN PANEL(S) ARE TO BE RE-USED. ELECTRICAL CONTRACTOR TO DISCONNECT PANEL AND CIRCUIT BREAKERS WITH GREAT CARE TO ENSURE AGAINST DAMAGE. THIS CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.
10. ALL FIRE ALARM DEVICES IN THE AREA OF WORK ARE EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED.
11. EXISTING EQUIPMENT DESIGNATED FOR REUSE SHALL BE CLEANED, REFURBISHED AND RESTORED TO OPTIMUM PERFORMANCE. THIS SHALL INCLUDE BUT NOT LIMITED TO CLEANING OF LIGHT FIXTURES, REPLACEMENT OF INOPERABLE BALLASTS AND LAMPS, RESISTANCE TESTING OF BRANCH CIRCUITRY AND FEEDERS, ETC.
12. EXTEND EXISTING CIRCUITRY TO THOSE DEVICES THAT ARE TO BE RELOCATED. MATCH EXISTING TYPE AND SIZE. RELOCATION OF EXISTING EQUIPMENT SHALL BE PERFORMED ONLY UPON OWNERS ACCEPTANCE OF EXISTING EQUIPMENT.
13. EXTEND EXISTING CIRCUITS SERVING EQUIPMENT TO REMAIN FROM PANELS THAT ARE TO BE REMOVED TO NEW PANELS OR EXISTING PANELS THAT ARE TO REMAIN.

DISPOSAL OF MERCURY CONTAINING LAMPS

1. ALL FLUORESCENT AND HID LAMPS WITHIN REMOVED LIGHT FIXTURES ARE CONSIDERED MERCURY CONTAINING AND SHALL BE TREATED AS HAZARDOUS MATERIAL.
2. FLUORESCENT AND HID LAMPS SHALL BE REMOVED FROM DEMOLISHED LIGHT FIXTURES AND DISPOSED OF AS PER NEW YORK STATE DEC REGULATIONS AND METHODS
3. LAMPS MUST BE BAGGED IN NON-LEACHING PLASTIC BAGS AND SEALED TO PREVENT LEAKING.
4. EACH LAMP OR BAGGED CONTAINER IN WHICH THESE LAMPS ARE CONTAINED MUST BE LABELED OR MARKED CLEARLY WITH ONE OF THE FOLLOWING PHRASES; UNIVERSAL WASTE LAMPS, OR WASTE LAMPS, OR USED LAMPS
5. THESE MARKED BAGS MUST BE DELIVERED TO THE PROPER NEW YORK STATE D.E.C. AUTHORIZED LANDFILL OR RECYCLE CENTERS.

BID PROJECTS

PROJECT 1: ALL WORK NOT INCLUDED IN PROJECTS 2 & 4 LISTED BELOW.

ALTERNATE 1A: GREY BOX COMPELETE RENOVATION.

ALTERNATE 1B: MUSIC ROOMS RENOVATIONS.

PROJECT 2: LIBRARY RENOVATION & SUPPORT SERVICES SUITE

ALTERNATE 2A: TELECOIL HEARING LOOP FOR LIBRARY.

ALTERNATE 2B: KIVA TIERED SEATING FOR LIBRARY.

ALTERNATE 2C: ACOUSTIC CEILING BAFFLES FOR LIBRARY.

PROJECT 3: NOT USED

PROJECT 4: WINDOW REPLACEMENT & GYM SKYLIGHT REPLACEMENT AND ROOF REPLACEMENT.

ABBREVIATIONS

ABBV.	DESCRIPTION
A	AMP/AMPERE
AC	AIR CONDITIONING UNIT
A.F.F.	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C.B.	CIRCUIT BREAKER
CH	CABINET HEATER
CKT	CIRCUIT
CU	CONDENSING UNIT
CP	CONDENSATE PUMP
(E)	EXISTING TO REMAIN
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
(ER)	EXISTING RELOCATED
EXIST.	EXISTING
FA	FIRE ALARM
F.A.C.P.	FIRE ALARM CONTROL PANEL
G,GRD	GROUND
GFI	GROUND FAULT INTERRUPTER
HWH	HOT WATER HEATER
kcmil	THOUSAND CIRCULAR MILLS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NTS	NOT TO SCALE
P.A.	PUBLIC ADDRESS
PNL	PANEL
(R)	REMOVE EXISTING
(RN)	REPLACE EXISTING W/NEW
(RR)	REMOVED, SALVAGED AND RELOCATED
SP	SUBMERSED PUMP
TV	TELEVISION
TYP.	TYPICAL
UH	UNIT HEATER
W	WATT
WP	WEATHERPROOF

LEGEND

A	2'x4' FLUORESCENT CEILING MOUNTED LIGHT FIXTURE. UPPER CASE LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
EM/NL	2'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE FOR EMERGENCY OPERATION. 'EM' INDICATES SWITCHED EMERGENCY FIXTURE, 'EM/NL'-UNSWITCHED EMERGENCY/NIGHT FIXTURE (TYP.).
B a	2'x2' FLUORESCENT CEILING MOUNTED FIXTURE. CAPITAL LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
	2'x2' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE FOR EMERGENCY OPERATION WITH INTEGRAL BATTERY BACK-UP, TEST BUTTON AND L.E.D.
C a	1'x4' FLUORESCENT CEILING MOUNTED FIXTURE. CAPITAL LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
	1'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE FOR EMERGENCY OPERATION WITH INTEGRAL BATTERY BACK-UP, TEST BUTTON AND L.E.D.
D	4' FLUORESCENT CEILING MOUNTED COMMERCIAL STRIPLITE. LETTER INDICATES TYPE. FIXTURE SCHEDULE DENOTES TYPE.
F	CEILING/WALL MOUNTED INCANDESCENT OR COMPACT FLUORESCENT FIXTURE. LETTER INDICATES TYPE. FIXTURE SCHEDULE DENOTES TYPE.
	CEILING/WALL MOUNTED EXIT LIGHT WITH OUTLET BOX. DIRECTIONAL ARROWS SHADED PORTION INDICATES ILLUMINATED FACE. SCHEDULE DENOTES TYPE.
	WALL MOUNTED EMERGENCY LIGHT FIXTURE WITH INTEGRAL BATTERY BACK-UP.
K a	FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH CONTROLLING ZONE "a". "K" WHERE USED INDICATES KEY SWITCH. '3' INDICATES 3-WAY SWITCH; '4' INDICATES 4-WAY SWITCH.
S	FLUSH WALL MOUNTED 3-WAY LIGHTING CONTROL SWITCH.
S^4	FLUSH WALL MOUNTED 4-WAY LIGHTING CONTROL SWITCH.
VS	FLUSH WALL MOUNTED PIR VACANCY SENSOR LIGHTING CONTROL SWITCH, SIMILAR TO WATTSTOPPER CS-50. (MANUAL ON, AUTO OFF)
R	EMERGENCY LIGHTING UL924 RELAY. PROVIDE WATTSTOPPER ELCU-200 MODULE FOR EMERGENCY LIGHT FUNCTION FOR INTERIOR LIGHTING AND WHEN INDICATED WITH LVS PROVIDE MODEL #EPC-D FOR EXTERIOR LIGHTING FIXTURES.
J	CEILING/WALL MOUNTED JUNCTION BOX.
J	FLUSH FLOOR MOUNTED JUNCTION BOX
3	HOMERUN TO DESIGNATED PANEL, ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOMERUN SHALL CONSIST OF 2#12-3/4"C U.O.N.
2,(4,6)	HOMERUN TO DESIGNATED PANEL, NUMBERS IN PARENTHESIS INDICATE MULTIPLE CIRCUIT, I.E. 3-HOTS AND 1-GROUND U.O.N.
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW
	125V-2P-3W-20A GROUNDED TYPE, SPECIFICATION GRADE WALL MOUNTED TAMPER RESISTANCE DUPLEX RECEPTACLE SIMILAR TO HUBBELL #5362WTR.
	SAME AS ABOVE EXCEPT DOUBLE DUPLEX RECEPTACLE.
	30AMP-2P TWIST LOCK OUTLET
	20A FLUSH WALL MOUNTED GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE HUBBELL #GF5362.
F	QUAD RECEPTACLE SHOWN FOR COORDINATION PURPOSES ONLY. RECEPTACLE PROVIDED BY FURNITURE VENDOR. EC TO PROVIDE POWER TO THE ELECTRIFIED JUNCTION BOX AND MAKE CONNECTIONS TO THE RECEPTACLES.
	125V-2P-3W-20A GROUNDED TYPE, SPECIFICATION GRADE WALL MOUNTED TAMPER RESISTANCE COMBINATION DUPLEX RECEPTACLE AND USB OUTLET.
	FLOOR MOUNTED LEGRAND EVOLUTION 8" SERIES POKE THRU DEVICE FLOOR MOUNTED COMBINATION POWER/DATA. FOUR 125V-1P-2W-20A QUAD RECEPTACLE AND THEN (1) DATA PORTS. PROVIDE BRUSHED ALUMINUM FINISH. LEGRAND MODEL #10ATCPAA.
OS	CEILING MOUNTED LOW VOLTAGE, DUAL TECHNOLOGY SENSOR, SIMILAR TO WATTSTOPPER MODEL# DT-300, MANUAL ON, AUTO OFF, WORK WITH LOCAL LOW VOLTAGE MOMENTARY CONTACT WALL SWITCH (LVSW-101). INCLUDE REQUIRED POWER PACKS. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 20 MIN.
OS H	CEILING MOUNTED LOW VOLTAGE ULTRASONIC SENSOR, SIMILAR TO WATTSTOPPER MODEL# WT-2255, WITH LONG CORRIDOR COVERAGE PATTERN, INCLUDE POWER PACKS AS REQUIRED. MANUAL ON, AUTO OFF, WORK WITH LOCAL KEY SWITCHES.
RC3	NETWORK DIGITAL DIMMABLE ROOM CONTROLLER FOR LIGHTING CONTROL. SIMILAR TO WATTSTOPPER MODEL LMRC-213. HOT WIRE TO LOAD, CAT 5 WIRE CONNECTIONS TO CONTROL DEVICES. RC'#' DENOTES LMRC-21'#' WITH '#' OF ZONES.
OS	NETWORK DIGITAL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, SIMILAR TO WATTSTOPPER MODEL LMDC-100. WORKS WITH DIGITAL ROOM CONTROLLER. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 20 MIN.
PC	NETWORK DIGITAL CEILING MOUNTED CLOSED LOOP, SINGLE ZONE PHOTO SENSOR. SIMILAR TO WATT STOPPER MODEL LMLS-400. WORKS WITH ROOM CONTROLLER.
3 WS2	NETWORK DIGITAL FLUSH MOUNTED PRESET WALL STATIONS, SIMILAR TO WATTSTOPPER MODEL LMSW-102, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING. WS'#' DENOTES LMSW-10'#' WITH '#' OF BUTTONS. SUPERSCRIPT '3' DENOTES 3 WAY SWITCH.
WD1	NETWORK DIGITAL FLUSH MOUNTED PRESET SINGLE ZONE DIMMABLE WALL STATION, SIMILAR TO WATTSTOPPER MODEL LMSW-104, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING AND PROGRAMMING PER ZONES: ON, RAISE, LOWER, OFF. SUPERSCRIPT '3' DENOTES 3 WAY SWITCH.
WD2	NETWORK DIGITAL FLUSH MOUNTED PRESET TWO ZONE DIMMABLE WALL STATION, SIMILAR TO WATTSTOPPER MODEL LMSW-104, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING AND PROGRAMMING PER ZONES: A, B, RAISE, LOWER. SUPERSCRIPT '3' DENOTES 3 WAY SWITCH.
3 WD3	NETWORK DIGITAL FLUSH MOUNTED PRESET THREE ZONE DIMMABLE WALL STATION, SIMILAR TO WATTSTOPPER MODEL LMSW-105, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING AND PROGRAMMING PER ZONES: ON/RAISE, OFF/LOWER, A, B, C, PRES. SUPERSCRIPT '3' DENOTES 3 WAY SWITCH.
S^V	WALL RECESS MOUNTED LOW VOLTAGE DUAL TECHNOLOGY VACANCY SENSOR, SIMILAR TO WATTSTOPPER MODEL# DSW-301. MANUAL ON, AUTO OFF. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 15 MIN.
S^M	FLUSH WALL MOUNTED LOW VOLTAGE MOMENTARY CONTACT SWITCH, SIMILAR TO WATTSTOPPER LVSW-101. WORK WITH CEILING SENSORS (DT-300) FOR MANUAL ON, AUTO OFF OPERATION. 'a' INDICATES CONTROL ZONE; '3' INDICATES 3-WAY SWITCH; '4' INDICATES 4-WAY SWITCH.
S^D	FLUSH WALL MOUNTED LOW VOLTAGE DIMMER SWITCH, SIMILAR TO WATTSTOPPER LMDM WORK WITH CEILING SENSORS (DT-300) FOR MANUAL ON, AUTO OFF OPERATION. 'a' INDICATES CONTROL ZONE; '3' INDICATES 3-WAY SWITCH; '4' INDICATES 4-WAY SWITCH.
OS	WEATHERPROOF, EXTERIOR GRADE WALL MOUNTED OCCUPANCY SENSORS.
VFD	VARIABLE FREQUENCY DRIVE. FURNISHED BY MECHANICAL CONTRACTOR, WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE CONDUIT AND WIRING FROM VFD TO MECHANICAL UNIT INTER CONNECTION SHALL MATCH THE SAME SIZE AND CONDUIT AND WIRE FROM VFD TO DESIGNATED PANELBOARD. REFER TO PANEL SCHEDULE OR NOTES FOR CONDUIT WIRE AND SIZE
EPO	EMERGENCY POWER OFF KEY SWITCH/PUSH BUTTON

LEGEND

	FLUSH WALL MOUNTED DATA OUTLET CONSISTING OF A COVER PLATE WITH 1" GROMMETED OPENING AND 1" EMPTY CONDUIT WITH DRAG LINE STUBBED UP 6" ABOVE FINISHED CEILING.
	FLUSH WALL MOUNTED TELEPHONE OUTLET CONSISTING OF A COVER PLATE WITH 1" GROMMETED OPENING AND 1" EMPTY CONDUIT WITH DRAG LINE STUBBED UP 6" ABOVE CEILING.
	SURFACE MOUNTED NEW ELECTRICAL PANELBOARD.
	SURFACE MOUNTED EXISTING ELECTRICAL PANELBOARD.
240/3 60 40 WP	HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT CONNECTION. 240 INDICATES VOLTAGE, 3 INDICATES NO. OF POLES, 60 INDICATES AMPERE RATING, NF INDICATES NON-FUSED(OR FUSE SIZE) U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE. 'WP' WHERE USED INDICATES WEATHERPROOF ENCLOSURE (NEMA 3R).
S_T	THERMAL SWITCH, CUTLER-HAMMER MS SERIES MANUAL STARTERS SINGLE-PHASE 20AMP, 120V U.O.N. WHERE INDICATED WITH 'WP' PROVIDE WATERTIGHT ENCLOSURE TYPE 3.
S_{2T}	208 VOLT, SINGLE PHASE 2 POLE, THERMAL OVERLOAD PROTECTED TOGGLE TYPE SWITCH. SIMILAR TO EATON #AH4361 + #AH27940G NEMA 1 ENCLOSURE.
S	MOTOR (F.B.O. WIRED BY ELEC.) -- NUMBER INDICATES HORSEPOWER. REFER TO PANEL SCHEDULES FOR WIRING AND OVER CURRENT PROTECTION.
F	WALL MOUNTED COMBINATION FIRE ALARM HORN/STROBE DEVICE.
F	WALL MOUNTED FIRE ALARM MANUAL PULL STATION
S	CEILING MOUNTED IONIZATION TYPE SMOKE DETECTOR
C CO	CEILING OR WALL MOUNTED CARBON MONOXIDE DETECTOR SOUNDER BASE
G CO	CEILING OR WALL MOUNTED GAS LEAK DETECTOR
S_D	DUCT MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR WITH (REMOTE) CONTROL RELAY MODULE FOR FAN SHUT DOWN. RELAY MODULE TO BE MOUNTED ADJACENT TO MECHANICAL EQUIPMENT. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
H	CEILING MOUNTED HEAT DETECTOR
ST	WALL MOUNTED FIRE ALARM STROBE LIGHT.
FACP	FIRE ALARM CONTROL PANEL.
ANN	FIRE ALARM ALPHANUMERIC ANNUNCIATOR PANEL.
IM	INTERFACE MODULE CONSISTING OF CONTROL RELAY AND MONITOR MODULES. IN NEMA 1 ENCLOSURE. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
LCP	LEHIGH SOLITAIRE STM MASTER LIGHTING CONTROL PANEL
LP	SOLITAIRE DIMMING SYSTEM MODEL #SDE-LCP AUXILIARY LCD LIGHTING CONTROL PANEL
OT A	SOLITAIRE IMPRESS ANALOG OCCUPANCY SENSOR
RC A	SOLITAIRE IMPRESS MULTI I/O CONTROLLER
WAP	WIRELESS ACCESS POINT. INSTALLED BY OWNER
GEN	GENERATOR ANNUNICATOR
CR	CARD READER.
C	CLOSED CIRCUIT TELEVISION CAMERA (CCTV). REMOVED STORED BY EC. INSTALLED BY OWNER.
CI	HAND SET RECEIVER FOR CALL-IN FUNCTION.
VA	VOICE ATENNUATOR
S	SURFACE MOUNTED MOUNTED P.A SPEAKER MATCH EXISTING.
S	CEILING MOUNTED P.A. SPEAKER MATCH EXISTING U.O.N.
S F	WALL MOUNTED COMBINATION CLOCK AND SPEAKER. 'S' WHERE USED INDICATES SURFACE MOUNTED AND 'F' WHERE USED INDICATES FLUSH MOUNTED.
	ONE (1) GANG BOX MOUNTED AT 18" A.F.F UNLESS OTHERWISE NOTED. FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. CONDUIT SHALL BE STUBBED UP 6" BELOW THE TOP OF THE BAR JOIST. CONFIRM LOCATION AND MOUNTING HEIGHT WITH AV CONSULTANT BEFORE THE START OF ANY WORK.
	TWO (2) GANG BOX MOUNTED AT 48" A.F.F UNLESS OTHERWISE NOTED. FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. CONDUIT SHALL BE STUBBED UP 6" BELOW THE TOP OF THE BAR JOIST. CONFIRM LOCATION AND MOUNTING HEIGHT WITH AV CONSULTANT BEFORE THE START OF ANY WORK
FB	FLOOR BOX TYPE: INTEGRATED FLOOR OUTLET AND AV INPUTS; FOUR (4) POWER OUTLETS. BASIS OF DESIGN: FSR FL500P-4-B. BOX SHALL BE FURNISHED AND PROVIDED BY ELECTRICAL CONTRACTOR. CONFIRM LOCATION WITH AV CONSULTANT BEFORE THE START OF ANY WORK.
S R/L	SWITCH TO CONT

REMOVAL NOTES:

1. REMOVE AND REINSTALL SMOKE DETECTORS IN THE CORRIDORS WHERE CEILING IS BEING REPLACED. MAINTAIN THE EXISTING FIRE ALARM LOOP CONTINUITY FOR ALL EXISTING DEVICES REMAINING. COORDINATE WITH SCHOOL DISTRICT AND CONSTRUCTION MANAGER BEFORE THE START OF ANY WORK.

2. REMOVAL AND RELOCATING OF ALL SECURITY CAMERAS AND WIRELESS ACCESS POINTS SHALL BE DONE BY OWNER. COORDINATE WITH SCHOOL DISTRICT AND CONSTRUCTION MANAGER BEFORE THE START OF ANY WORK.

WORK NOTES:

(1) ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING LIGHT FIXTURES, PROTECT WITH BUBBLE WRAP, STORE, CLEAN DURING DEMOLITION WORK. ALL WIRING TO BE COILED UP AND SECURED. ONCE THE RENOVATION WORK IS COMPLETE RE-INSTALL AND RECONNECT ALL LIGHTING TO EXISTING WIRING. NEW CONTROLS TO BE PROVIDED FOR THESE LIGHTS. REFER TO DETAIL 5 ON E-702 FOR NEW LIGHTING CONTROL SYSTEM.

CORRIDOR CEILING WORK NOTES (READ CAREFULLY):

1. CORRIDOR CEILING SHALL BE REMOVED BY OTHER CONTRACTORS, THIS ELECTRICAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE TO RE-SUPPORT ALL LOW VOLTAGE WIRING AND MC LINE VOLTAGE CABLE LYING ON THE CEILING TILE, GRID AND NOT PROPERLY SUPPORTED WITH J-HOOKS BEFORE THE START OF THE CEILING REMOVAL. THIS CONTRACTOR SHOULD ANTICIPATE THAT THERE WILL BE APPROXIMATELY 2-20 CABLES ALONG THE WALL AGAINST THE CLASSROOMS ON BOTH SIDES OF THE CORRIDOR. THE CENTER OF THE CORRIDOR HAS APPROXIMATELY 30 TO 50 LOW VOLTAGE CABLES AND 5 TO 10 MC ARMORED LINE VOLTAGE CABLES. THE LOW VOLTAGE CABLE TYPE CONSISTS OF DATA, TELEPHONE, PA, FIRE ALARM, SECURITY, CAMERAS, AND MECHANICAL EQUIPMENT CONTROL WIRING.

2. ALL CEILING MOUNTED FIRE ALARM DEVICES (SMOKE DETECTORS, CARBON DETECTORS, ETC.) ANY SECURITY DEVICES (MOTION SENSORS, ETC. EXCLUDING CAMERAS) SHALL BE RE-SUPPORTED AND MAINTAINED DURING THE DURATION OF ABOVE CEILING WORK. ONCE NEW CEILING INSTALLATION WORK STARTS THIS CONTRACTOR SHALL REINSTALL AND REMOUNT ALL DEVICES IN NEW CEILING TILES IN A NEAT AND CLEAN MANNER. ALL CEILING MOUNTED CAMERAS AND WAP'S WILL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT TO REMOVE AND REINSTALL.

3. THE CORRIDOR CEILING SEQUENCE OF THE WORK SHALL BE COORDINATED WITH CONSTRUCTION MANAGER, SCHOOL DISTRICT AND OTHER CONTRACTORS BEFORE THE START OF ANY WORK.



PARTIAL FIRST FLOOR REMOVAL PLAN
(REMOVALS) (PROJECT 1, 1A & 1B)

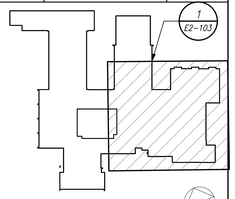
1 / E2-103

0 8' 16'
1/8 inch=1 foot

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

Revision Schedule

No.	Description	Date
1	SED Submission	09/15/2020
2	SED Submission Addendum#1	01/08/2021
3	ISSUED FOR BID	01/19/2021
4	BID ADDENDUM #1	01/29/2021



Geddis Architects
Architecture. Planning. Interiors
71 Old Post Road
P.O. Box 1020
Southport, CT 06890
(203) 256-8700

Fielding International
Transforming Education by Design
259 Water Street Suite 1L
Warren , RI 02885 USA
+1 401-289-2789

BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Construction Manager
SAVIN ENGINEERS, P.C.
3 Campus Drive
Pleasantville, NY 10570
914-769-3200

Structural Engineer
ODEH ENGINEERS
1223 Mineral Spring Ave
North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
518-463-4400

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

AV Consultant
CAVANAUGH TOCCI
327 F Boston Post Road
Sudbury, MA 01776-3027
978-443-7871

SED#: 6618-0001-0001-023

PROJECT

Rye City Schools
555 Theodore Fremd Ave, Suite B-101

Osborn Elementary School

10 Osborn Road, Rye NY 10580

PART FIRST FLOOR REMOVAL PLAN

PROJECT 1 1A & 1B

SEAL & SIGNATURE

DATE:	12/18/19
PROJECT No:	9200
DRAWING BY:	BGA
CHK BY:	BGA
DWG No:	E2-103

WORK NOTES:

1. NOT USED.
2. CIRCUIT NEW EMERGENCY LIGHTING TO EXISTING EMERGENCY CIRCUIT. EC TO CONFIRM CIRCUIT IN FIELD. PROVIDE 2#12+1#12G IN 3/4"C FROM NEW LIGHTS TO EXISTING LIGHT FIXTURES.
3. REFER TO LIGHTING CONTROL WIRING DIAGRAM ON DRAWING E-702 DETAIL 5 AND SPECIFICATION FOR MORE INFORMATION.
4. CIRCUIT NEW NORMAL LIGHTING ON EXISTING LIGHTING CIRCUIT IN THIS AREA. CIRCUIT NUMBER ARE FOR REFERENCE ONLY. EC TO CONFIRM CIRCUIT # IN FIELD. PROVIDE 2#12+1#12G IN 3/4"C FROM SOURCE PANELBOARD TO FEED NEW LIGHT FIXTURES.
5. CIRCUIT EXTERIOR LIGHTING FIXTURE TYPE "Z" TO INTERIOR NORMAL LIGHTING CIRCUIT. FIXTURE SHALL BE CONTROLLED VIA INTEGRAL PHOTOCELL AND OCCUPANCY SENSOR. INCLUDE SELF CONTAINED BATTERY PACKS TO OVERRIDE ALL CONTROLS IN EVENT OF EMERGENCY.
6. PROVIDE NEW EXTERIOR EMERGENCY LIGHT FIXTURE 'Z1' AND CONNECT TO NEW EMERGENCY AND NORMAL LIGHTING CIRCUIT CONNECTED TO LVS RELAY SEE NOTE 7. FIXTURE SHALL BE CONTROLLED VIA NEW REMOTE PHOTOCELL AND OCCUPANCY SENSOR. REFER TO DETAIL 8/E2-701 FOR WIRING DIAGRAM. UPON INTERRUPTION OF NORMAL POWER ENTIRE LIGHT CIRCUIT FOR EXTERIOR LIGHT FIXTURE SHALL ILLUMINATE REGARDLESS OF PHOTOCELL OR OCCUPANCY CONTROL POSITION OF OPERATION.
7. PROVIDE UL924 RELAY SIMILAR TO LVS MODEL EPC-1-D-F TO OVERRIDE REMOTE PHOTOCELL AND OCCUPANCY SENSOR FOR EXTERIOR MOUNTED LIGHTING FIXTURE 'Z1.' CONNECT TO EMERGENCY AND NORMAL CIRCUIT SERVING THE AREA AHEAD OF ANY LOCAL SWITCHING. REFER TO DETAIL 8/E2-701 FOR ADDITIONAL INFORMATION.
7A. PROVIDE TORK 2001 SERIES PHOTOCELL SENSOR AND HUBBELL LIGHTOWL #LO-IRWVRP-LWO DISABLE OCCUPANCY SENSOR. INCLUDE #UVPP POWER PACK MOUNTED ON THE BUILDING WALL TO OPERATE TYPE "Z1" EXTERIOR EMERGENCY LIGHTING FIXTURE.
8. CIRCUIT EXIT LIGHTS TO THE EMERGENCY LIGHTING CIRCUIT IN THIS AREA, AHEAD OF ANY SWITCHING.

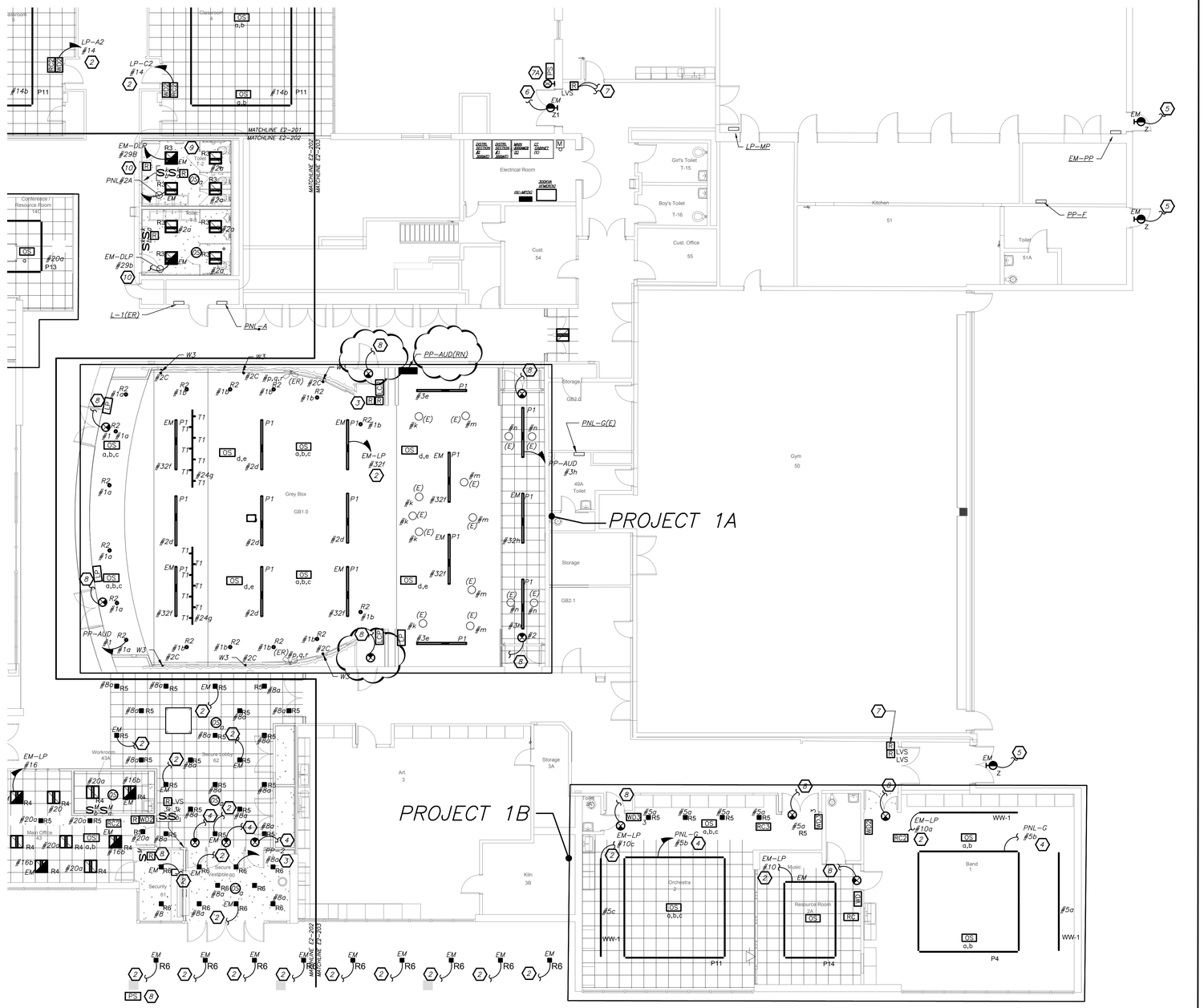
LIGHTING CONTROL AND SEQUENCE OF OPERATION:

1. CLASSROOMS, MAKER SPACES, CONFERENCE ROOM AND LIBRARY ARE CONTROLLED VIA MANUAL ON DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH CLASSROOMS CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWITCHES CONSISTS OF 'A', 'B', 'C' 'OFF', 'RAISE', AND 'LOWER' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. UL 924 EMERGENCY LIGHTING RELAY ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON 100% IN THE EVENT OF EMERGENCY.
2. OFFICES AND SUPPORT SUITS ARE CONTROLLED VIA MANUAL ON DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH OFFICE CONSISTS OF FULL DIMMING CAPABILITY. WALL SWITCHES CONSISTS OF 'ON', 'RAISE', 'LOWER', AND 'OFF' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. UL 924 EMERGENCY LIGHTING RELAY ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF EMERGENCY.
3. ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA EXISTING LOCAL WALL SWITCHES. OVER LAPPED LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF) IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES.
4. EXTERIOR BUILDING MOUNTED LIGHTS (TYPE Z) ARE CONTROLLED VIA BUILT-IN PHOTOCELL AND STEP-DIM MOTION SENSORS. IN BUILT BATTERY BACKUP SHALL OVERRIDE ALL SENSORS (PHOTOCELL AND OCCUPANCY SENSOR) IN THE EVENT OF EMERGENCY AT EGRESS DOORS AS SHOWN.
5. EXTERIOR BUILDING MOUNTED LIGHTS (TYPE Z1) ARE CONTROLLED VIA REMOTE PHOTOCELL AND STEP-DIM MOTION SENSORS. PROVIDE UL 924 EMERGENCY LIGHTING RELAY TO BYPASS ALL SENSORS (PHOTOCELL AND OCCUPANCY SENSOR) IN THE EVENT OF EMERGENCY AT EGRESS DOORS AS SHOWN.

GENERAL NOTES:

1. REFER TO DRAWING E2-001 FOR LEGEND AND LIGHTING CONTROL AND E2-601 FOR LIGHTING FIXTURE SCHEDULE.
2. REFER TO DRAWING E2-600 SERIES FOR PANELBOARD SCHEDULES.
3. REFER TO DRAWING E2-701 FOR LIGHTING CONTROL WIRING DIAGRAMS AND DETAILS.
4. NORMAL SIDE SENSING LINE ON ALL EMERGENCY LIGHTING RELAY SHALL BE CIRCUITED TO THE NORMAL LIGHTING CIRCUIT IN THE ROOM/AREA IT SERVES.
5. FOR ALL AREAS CONTROLLED BY ROOM CONTROLLER "RC", ELECTRICAL CONTRACTOR IS TO CIRCUIT ROOM CONTROLLER, THEN EXTEND LINE VOLTAGE CIRCUITRY TO EACH OF THE LIGHT FIXTURES DEPENDING ON CONTROL ZONES. REFER TO ROOM CONTROLLER WIRING DIAGRAM DETAILS ON DRAWING E703.
6. ALL EXIT LIGHTS SHALL BE CIRCUITED TO NORMAL LIGHTING CIRCUIT IN THE AREA, AHEAD OF ANY SWITCHING.
7. SET LIGHTING CONTROL SENSORS TO HIGHEST SENSITIVITY AVAILABLE PRIOR TO INSTALLATION.

SPECIAL NOTE: THIS CONTRACTOR SHALL RECEIVE SIGN-OFF FROM AV CONSULTANT AND ARCHITECT BEFORE THE START OF ANYWORK OF THE EXACTION LOCATION OF ALL DEVICES, RECEPTACLES, JUNCTION BOXES, FLOOR BOXES, ETC SHALL BE MOUNTED WITHIN GREY BOX AND LIBRARY. IF ELECTRICAL CONTRACTOR DOES NOT RECEIVE WRITTEN CONFIRMATION IT WILL BE HIS RESPONSIBILITY TO RELOCATE ALL ITEMS AT NO ADDITIONAL COST TO OWNER.



PARTIAL FIRST FLOOR LIGHTING PLAN
(NEW WORK) (PROJECT 1, 1A & 1B)

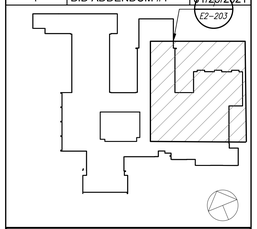
1 E2-203

0 8' 16'
1/8 inch=1 foot

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

Revision Schedule

No.	Description	Date
1	SED Submission	09/15/2020
2	SED Submission Addendum#1	01/08/2021
3	ISSUED FOR BID	01/19/2021
4	BID ADDENDUM #1	01/29/2021



Geddis Architects
Architecture. Planning. Interiors
71 Old Post Road
P.O. Box 1020
Southport, CT 06890
(203) 256-8700

Fielding International
Transforming Education by Design
259 Water Street Suite 1L
Warren , RI 02885 USA
+1 401-289-2789

BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Construction Manager
SAVIN ENGINEERS, P.C.
3 Campus Drive
Pleasantville, NY 10570
914-769-3200

Structural Engineer
ODEH ENGINEERS
1223 Mineral Spring Ave
North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
518-463-4400

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

AV Consultant
CAVANAUGH TOCCI
327 F Boston Post Road
Sudbury, MA 01776-3027
978-443-7871

SED#: 6618-0001-0001-023

PROJECT
Rye City Schools
555 Theodore Fremd Ave, Suite B-101

Osborn Elementary School

10 Osborn Road, Rye NY 10580

PART FIRST FLOOR LIGHTING PLAN

PROJECT 1, 1A & 1B

SEAL & SIGNATURE

DATE: 12/18/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-203

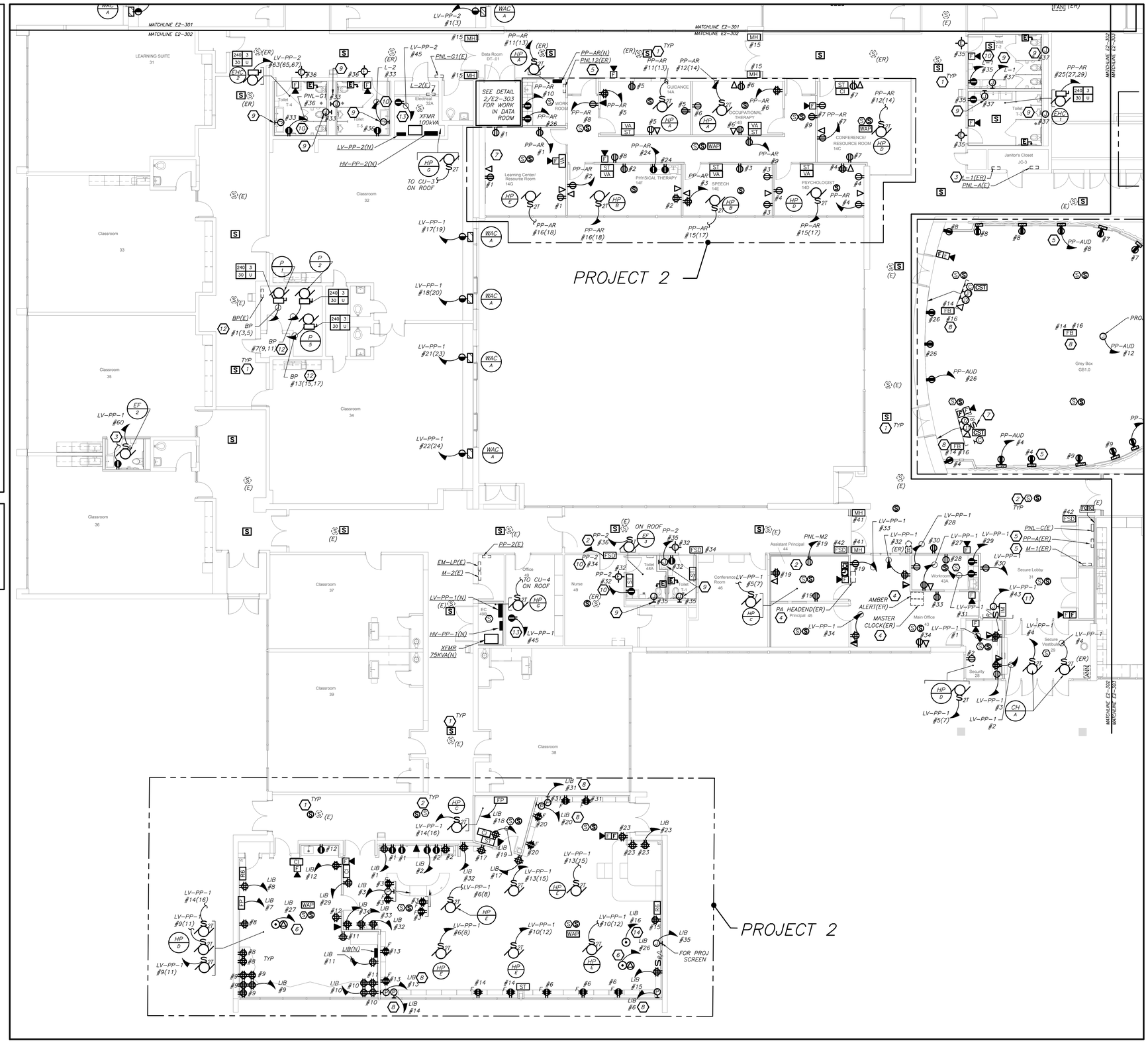
GENERAL NOTES:

1. REFER TO ELECTRICAL RISER DIAGRAMS ON DRAWING E2-501 FOR SCOPE OF WORK.
2. REFER TO PANELBOARD SCHEDULES ON DRAWINGS E2-601 AND E2-602 FOR BRANCH CIRCUITING INFORMATION..
3. REFER TO DRAWINGS E2-700 SERIES FOR DETAILS.
4. EXISTING BUILDING HAS FULL FIRE ALARM COVERAGE CONSISTING OF MANUAL PULL STATIONS, SMOKE DETECTORS, HEAT DETECTORS,, HORN/STROBES, STROBES, MAGNETIC DOOR HOLDERS ETC. AREAS OF WORK ONLY SHOWN WITH NECESSARY MODIFICATIONS.

WORK NOTES:

1. PROVIDE NEW SURFACE MOUNTED PUBLIC ADDRESS SYSTEM SPEAKERS THROUGH OUT THE CORRIDOR WITH MIN SPACE OF 30' BETWEEN EACH SPEAKERS. PROVIDE ALL NECESSARY ACCESSORIES IN THE HEADEND LOCATED IN THE MAIN OFFICE. PROVIDE NEW PLENUM RATED P.A WIRING ABOVE HUNG CEILING, PLENUM RATED WIRING IN EMT IN EXPOSED UNFINISHED AREAS AND PLENUM RATED WIRING IN WIREMOLD IN EXPOSED FINISHED AREA.
2. PROVIDE NEW SMOKE DETECTORS IN THE CORRIDORS AS INDICATED. ALL NEW FIRE ALARM WIRING TO BE CONNECTED TO NEAREST EXISTING LOOPS IN THE AREA.
3. CIRCUIT TO THE EXISTING CIRCUIT IN THE AREA.
4. RELOCATE EXISTING PUBLIC ADDRESS HEADEND, MASTER CLOCK, AND AMBER ALERT HEADEND TO NEW LOCATIONS AS SHOWN. REFER TO RISER DRAWINGS ON E2-501 FOR ADDITIONAL INFORMATION .
5. RELOCATE EXISTING PANELBOARD TO NEW LOCATION AS SHOWN. EXTEND ALL BRANCH WIRING TO NEW LOCATION. PROVIDE ALL NEEDED ACCESSORIES FOR COMPLETE FUNCTIONAL INSTALLATION.
6. CIRCUIT FOR CEILING MOUNTED POWER OUTLET FOR AV RACK. REFER TO AUDIO VISUAL DRAWINGS AVE2 SERIES FOR ADDITIONAL INFORMATION.
7. NOT USED
8. ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH FURNITURE LAYOUT. COORDINATE WITH ARCHITECT BEFORE THE START OF ANY WORK.
9. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF JUNCTION TO SERVE SINK POWER SUPPLY FOR FAUCET AND AUTOMATIC FLUSH VALVE PRIOR TO THE START OF ANYWORK WITH PLUMBING CONTRACTOR. POWER SUPPLY FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THE 120V CIRCUIT AND ALL LOW VOLTAGE WIRING ON THE LOAD SIDE OF POWER SUPPLY BY PLUMBING CONTRACTOR.
10. PROVIDE 2#12+1#12G IN 3/4" CONDUIT TO INDICATED PANELBOARD. PROVIDE NEW 1P-20 AMP CIRCUIT BREAKER IN AVAILABLE SPACE. NEW CIRCUIT BREAKER SHALL MATCH EXISTING PANEL FRAME SIZE, TYPE AND AIC RATING.
11. PROVIDE POWER FOR FIRE SHUTTERS. AND INTERCONNECT WITH RAISE AND LOWER SWITCH. FIRE SHUTTER SHALL BE INSTALLED WITH FIRE ALARM VIA INTERFACE MODULE AS SHOWN.
12. PROVIDE NEW 30 AMP-3P BREAKER IN EXISTING PNL-BP. MATCH EXISTING. PROVIDE 3#10+1#10G-3/4"C FROM PUMPS TO INDICATED PANELBOARD.
13. PROVIDE GFI OUTLET FOR CONDENSATE PUMP. COORDINATE EXACT MOUNTING HEIGHTS WITH HVAC CONTRACTOR.
14. CIRCUIT FOR CEILING MOUNTED POWER OUTLET FOR PROJECTOR. REFER TO AUDIO VISUAL DRAWINGS AVE2 SERIES FOR ADDITIONAL INFORMATION.

SPECIAL NOTE: THIS CONTRACTOR SHALL RECEIVE SIGN-OFF FROM AV CONSULTANT AND ARCHITECT BEFORE THE START OF ANYWORK OF THE EXACT LOCATION OF ALL DEVICES, RECEPTACLES, JUNCTION BOXES, FLOOR BOXES, ETC SHALL BE MOUNTED WITHIN GREY BOX AND LIBRARY. IF ELECTRICAL CONTRACTOR DOES NOT RECEIVE WRITTEN CONFIRMATION IT WILL BE HIS RESPONSIBILITY TO RELOCATE ALL ITEMS AT NO ADDITIONAL COST TO OWNER.



PARTIAL FIRST FLOOR POWER PLAN (NEW WORK) (PROJECT 1 & 2)

1 / E2-302

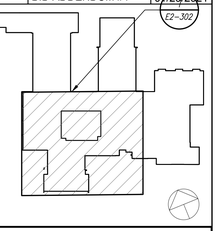
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Geddis Architects
Architecture. Planning. Interiors
71 Old Post Road
P.O. Box 1020
Southport, CT 06890
(203) 256-8700

Fielding International
Transforming Education by Design
259 Water Street Suite 1L
Warren , RI 02885 USA
+1 401-289-2789

BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Construction Manager
SAVIN ENGINEERS, P.C.
3 Campus Drive
Pleasantville, NY 10570
914-769-3200

Structural Engineer
ODEH ENGINEERS
1223 Mineral Spring Ave
North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
518-463-4400

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
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AV Consultant
CAVANAUGH TOCCI
327 F Boston Post Road
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978-443-7871

SED#: 6618-0001-0001-023

PROJECT

Rye City Schools

555 Theodore Fremd Ave, Suite B-101

Osborn Elementary School

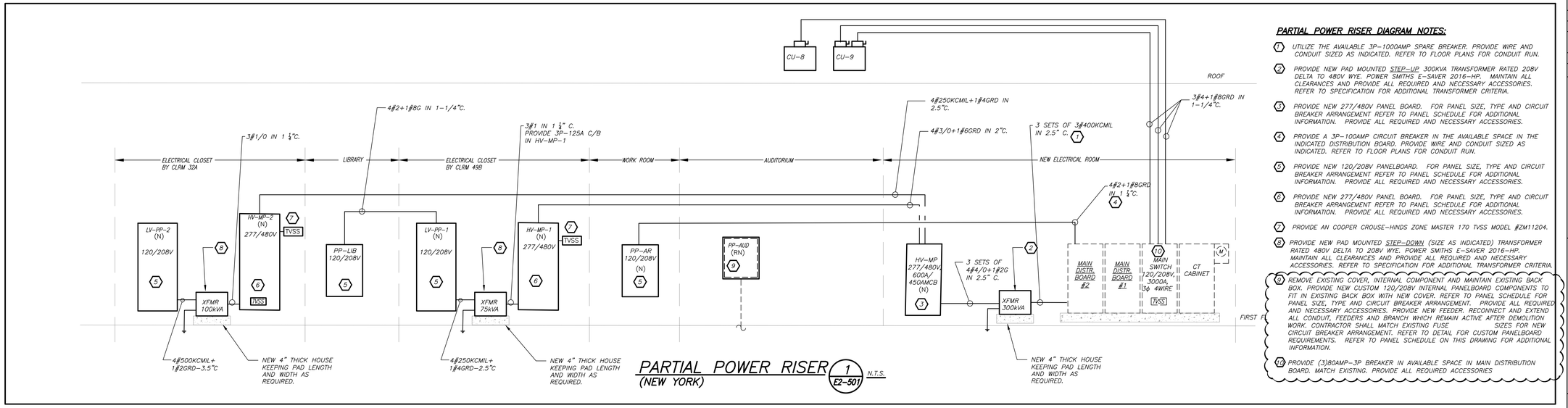
10 Osborn Road, Rye NY 10580

PART FIRST FLOOR POWER PLAN

PROJECT 1 & 2

SEAL & SIGNATURE

DATE:	12/18/19
PROJECT No:	9200
DRAWING BY:	BGA
CHK BY:	BGA
DWG No:	E2-302



PARTIAL POWER RISER (NEW YORK) — E2-501 — N.T.S.

PARTIAL POWER RISER DIAGRAM NOTES:

1. UTILIZE THE AVAILABLE 3P-1000AMP SPARE BREAKER. PROVIDE WIRE AND CONDUIT SIZED AS INDICATED. REFER TO FLOOR PLANS FOR CONDUIT RUN.
2. PROVIDE NEW PAD MOUNTED STEP-UP 300KVA TRANSFORMER RATED 208V DELTA TO 480V WYE. POWER SMITHS E-SAVER 2016-HP. MAINTAIN ALL CLEARANCES AND PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES. REFER TO SPECIFICATION FOR ADDITIONAL TRANSFORMER CRITERIA.
3. PROVIDE NEW 277/480V PANEL BOARD. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.
4. PROVIDE A 3P-100AMP CIRCUIT BREAKER IN THE AVAILABLE SPACE IN THE INDICATED DISTRIBUTION BOARD. PROVIDE WIRE AND CONDUIT SIZED AS INDICATED. REFER TO FLOOR PLANS FOR CONDUIT RUN.
5. PROVIDE NEW 120/208V PANELBOARD. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.
6. PROVIDE NEW 277/480V PANEL BOARD. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.
7. PROVIDE AN COOPER CROUSE-HINDS ZONE MASTER 170 TVSS MODEL #ZM11204.
8. PROVIDE NEW PAD MOUNTED STEP-DOWN (SIZE AS INDICATED) TRANSFORMER RATED 480V DELTA TO 208V WYE. POWER SMITHS E-SAVER 2016-HP. MAINTAIN ALL CLEARANCES AND PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES. REFER TO SPECIFICATION FOR ADDITIONAL TRANSFORMER CRITERIA.
9. REMOVE EXISTING COVER, INTERNAL COMPONENT AND MAINTAIN EXISTING BACK BOX. PROVIDE NEW CUSTOM 120/208V INTERNAL PANELBOARD COMPONENTS TO FIT IN EXISTING BACK BOX WITH NEW COVER. REFER TO PANEL SCHEDULE FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES. PROVIDE NEW FEEDER. RECONNECT AND EXTEND ALL CONDUIT, FEEDERS AND BRANCH WHICH REMAIN ACTIVE AFTER DEMOLITION WORK. CONTRACTOR SHALL MATCH EXISTING FUSE SIZES FOR NEW CIRCUIT BREAKER ARRANGEMENT. REFER TO DETAIL FOR CUSTOM PANELBOARD REQUIREMENTS. REFER TO PANEL SCHEDULE ON THIS DRAWING FOR ADDITIONAL INFORMATION.
10. PROVIDE (3)80AMP-3P BREAKER IN AVAILABLE SPACE IN MAIN DISTRIBUTION BOARD. MATCH EXISTING. PROVIDE ALL REQUIRED ACCESSORIES

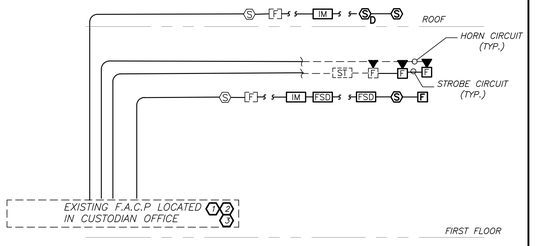
FIRE ALARM RISER GENERAL NOTES:

1. FIRE ALARM WIRING DIAGRAMS SHOWN ARE FOR GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY AND OBTAIN POINT TO POINT WIRING DIAGRAM PRIOR TO INSTALLATION FROM MANUFACTURER.
2. PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
3. IN AREAS WHERE DUST AND DIRT WILL BE AIRBORNE DURING DEMOLITION AND CONSTRUCTION THE CONTRACTOR SHALL PROVIDE PLASTIC WRAP OVER SMOKE DETECTORS AND THEN REMOVE ONCE SPACE IS CLEAN.
4. UNLESS DIRECTED OTHERWISE BY FIRE ALARM SYSTEM MANUFACTURER FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY):

   SPEAKER WIRING – #14 AWG TWISTED
   STROBE WIRING – #14 AWG TWISTED
   SIGNAL WIRING – #14 AWG TWISTED/SHIELDED

   THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
   A. A MINIMUM TEMPERATURE RATING OF 150 C
   B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS
   C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS
   D. THE COLOR OF THE CABLE SHALL BE RED
   E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE) WHEN CONDUIT IS USED. SEE NOTE 5 FOR ADDITIONAL CLARIFICATION.
   F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.

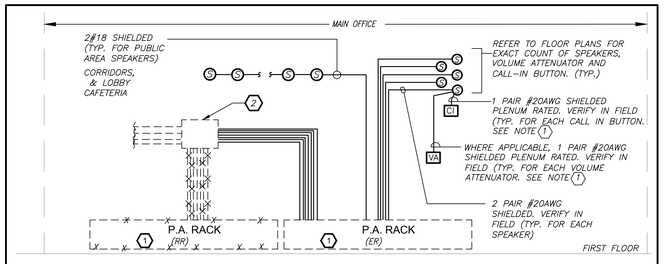
   CONFIRM WIRING TYPE AND QUANTITY WITH FIRE ALARM SYSTEM MANUFACTURER PRIOR TO PURCHASING.
5. PROVIDE MC FIRE ALARM CABLE WITH RED STRIPE AS MANUFACTURED BY AFC SERIES 1800 WHEN CABLE IS CONCEALED OR ABOVE HUNG CEILING. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN FINISHED AREAS, CABLE SHALL RUN IN WIREMOLD V-700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN. 3/4" CONDUIT.
6. SHUTDOWN OF HVAC SYSTEM EQUIPMENT (NOT LIMITED TO, ROOF TOP, EXHAUST FANS, ETC.) OF 1000 CFM OR GREATER, SHALL BE PERFORMED VIA A RELAY INTERFACE SYSTEM. SEND SIGNAL TO BUILDING AUTOMATED TEMPERATURE CONTROL (ATC) SYSTEM INDICATING SHUTDOWN HAS OCCURRED. EQUIPMENT RESTART SHALL BE BY BUILDING "ATC" SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
7. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
8. COORDINATE F.A WORK WITH F.A VENDOR.
9. VERIFY EXACT QUANTITIES OF FIRE ALARM DEVICES WITH PLANS.
10. ALL DEVICES SHALL BE SUPERVISED AS PER N.F.P.A. 72. PROVIDE END OF LINE RESISTORS AS REQUIRED PER INDIVIDUAL MANUFACTURER. PROVIDE LOAD RELAYS AS REQUIRED FOR PROPER OPERATION OF EQUIPMENT.
11. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND MAPPING OF EACH DEVICE AS REQUIRED.



FIRE ALARM RISER WORK NOTES:

1. CONNECT NEW FIRE ALARM DEVICES TO NEAREST EXISTING FIRE ALARM DEVICE CIRCUIT. PROVIDE ALL REQUIRED RELAYS, MODULES, WIRING, ETC., AS NEEDED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
2. PROVIDE ALL RELAYS, POWER SUPPLIES, WIRING, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH BASE BUILDING VENDOR OPEN SYSTEMS FOR PROGRAMMING AND MAPPING OF ALL DEVICES.

PART FIRE ALARM RISER — 3 / E2-501 — N.T.S.



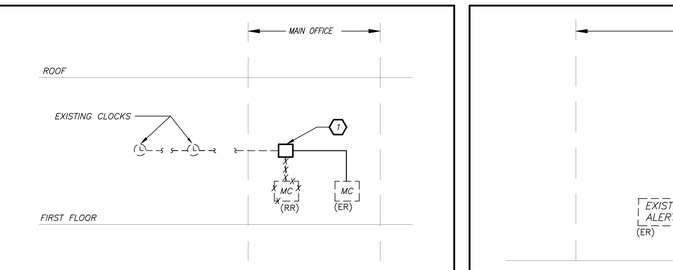
GENERAL NOTES:

1. VERIFY EXACT QUANTITY AND LOCATION OF DEVICES ON PLAN DRAWINGS.
2. WIRING TYPES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURER.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE PLENUM RATED WIRING AND RUN EXPOSED ABOVE ACCESSIBLE CEILING. IT SHALL BE RUN IN EMT CONDUIT WHERE EXPOSED, EXCEPT IN CORRIDORS AND OFFICES WIRING SHALL BE RUN IN STEEL SURFACE RACEWAY (SIMILAR TO WIREMOLD V-500 AND/OR V-700). WIRING SHALL ALSO BE RUN IN EMT FOR STUB-UPS IN CONCEALED WALLS.
4. SPEAKERS SHALL MATCH EXISTING TYPE. VERIFY WATTAGE TAP REQUIREMENTS IN FIELD.
5. ALL PROGRAMMING AND FINAL CONNECTIONS TO EXISTING P.A. SYSTEM SHALL BE BY SYSTEM MAINTENANCE CONTRACTOR. ALL COSTS ASSOCIATED WITH THIS SHALL BE BY ELECTRICAL CONTRACTOR.

WORK NOTES:

1. EXISTING PA RACK SHALL BE REMOVED AND RELOCATED. PROVIDE NEW SWITCH ZONE CARD, AMPLIFIER, ETC. AS REQUIRED FOR COMPLETE INSTALLATION FOR NEW ADDED DEVICES. EXISTING SYSTEM IS DUKANE AND IS LOCATED IN MAIN OFFICE.
2. PROVIDE NEW 24"X24"X6" SPLICE BOX WITH TERMINAL BLOCKS TO EXTEND ALL WIRING TO EXISTING RELOCATED PA RACK WITHIN MAIN OFFICE. SPLICING WIRING TOGETHER WITH TWIST TIES/TAPE IS NOT PERMITTED. PULL BOX SHALL BE INSTALLED ABOVE CEILING. FIRST FLOOR. REFER TO E2-102 AND E2-302 FOR ADDITIONAL INFORMATION.

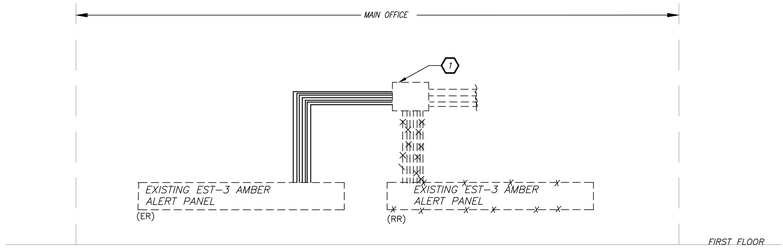
PARTIAL PUBLIC ADDRESS RISER DIAGRAM — 2 / E2-501 — N.T.S.



CLOCK RISER WORK NOTES:

1. PROVIDE NEW 8"X18"X4" SPLICE BOX WITH TERMINAL BLOCKS TO EXTEND ALL WIRING TO EXISTING RELOCATED MASTER CLOCK LOCATION. SPLICING WIRING TOGETHER WITH TWIST TIES/TAPE IS NOT PERMITTED. PULL BOX SHALL BE INSTALLED ABOVE CEILING. REFER TO E2-102 AND E2-302 FOR ADDITIONAL INFORMATION.

PART CLOCK RISER DIAGRAM — 5 / E2-501 — N.T.S.



AMBER ALERT RISER WORK NOTES:

1. PROVIDE NEW 12"X12"X6" SPLICE BOX WITH TERMINAL BLOCKS TO EXTEND ALL WIRING TO EXISTING RELOCATED AMBER ALERT PANEL LOCATION. SPLICING WIRING TOGETHER WITH TWIST TIES/TAPE IS NOT PERMITTED. PULL BOX SHALL BE INSTALLED ABOVE CEILING. REFER TO E2-102 AND E2-302 FOR ADDITIONAL INFORMATION.

PARTIAL AMBER ALERT RISER DIAGRAM (NEW WORK) — 4 / E2-501 — N.T.S.

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Revision Schedule

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Geddis Architects
Architecture. Planning. Interiors
71 Old Post Road
P.O. Box 1020
Southport, CT 06890
(203) 256-8700

Fielding International
Transforming Education by Design
259 Water Street Suite 1L
Warren , RI 02885 USA
+1 401-289-2789

BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Construction Manager
SAVIN ENGINEERS, P.C.
3 Campus Drive
Pleasantville, NY 10570
914-769-3200

Structural Engineer
ODEH ENGINEERS
1223 Mineral Spring Ave
North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
518-463-4400

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

AV Consultant
CAVANAUGH TOCCI
327 F Boston Post Road
Sudbury, MA 01776-3027
978-443-7871

SED#: 6618-0001-0001-023

PROJECT

Rye City Schools
555 Theodore Fremd Ave, Suite B-101

Osborn Elementary School

10 Osborn Road, Rye NY 10580

ELECTRICAL RISER

SEAL & SIGNATURE

DATE: 12/18/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-501

WORK NOTES:

1. EMERGENCY CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. PROVIDE 2#12+1#12G IN 3/4" CONDUIT TO NEAR BY EMERGENCY LIGHTING CIRCUIT.
2. REFER TO LIGHTING CONTROL WIRING DIAGRAM ON DRAWING E-701 DETAIL 8/E-701 AND SPECIFICATION FOR MORE INFORMATION.
3. COORDINATE LOCATION AND ELEVATION OF RECEPTACLE WITH AV CONSULTANT. BEFORE THE START OF ANY WORK.
4. JUNCTION BOX TO PROVIDE POWER FOR SPEAKER. COORDINATE EXACT LOCATION WITH AV CONSULTANT BEFORE THE START OF ANY WORK.
5. COORDINATE EXACT LOCATION OF THE PROJECTION SCREEN CONTROL SWITCH WITH THE AV CONSULTANT BEFORE THE START OF ANY WORK.
6. EXACT LOCATION OF FLOOR BOX SHALL COORDINATED WITH AV CONSULTANT BEFORE THE START OF ANY WORK.

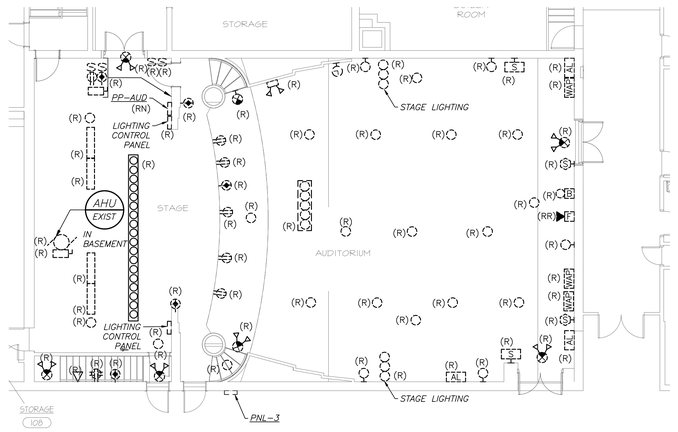
SPECIAL NOTE: THIS CONTRACTOR SHALL RECEIVE SIGN-OFF FROM AV CONSULTANT AND ARCHITECT BEFORE THE START OF ANYWORK OF THE EXACTION LOCATION OF ALL DEVICES, RECEPTACLES, JUNCTION BOXES, FLOOR BOXES, ETC SHALL BE MOUNTED WITHIN GREY BOX. IF ELECTRICAL CONTRACTOR DOES NOT RECEIVE WRITTEN CONFIRMATION IT WILL BE HIS RESPONSIBILITY TO RELOCATE ALL ITEMS AT NO ADDITIONAL COST TO OWNER.

AUDITORIUM DIMMING SCHEDULE– PROJECT 1B
LIGHT DIMMER PANEL: LP

ZONE #	CIRCUIT #	AMP	LUMINAIRE LOCATION	LUMINAIRE TYPE	LOAD (VA)
1	PP-AUD-4	20	AUD-HOUSE-MAIN	LED	168
2	PP-AUD-4	20	AUD-HOUSE-MAIN	LED-EMERGENCY-RELAY UL924	100
3	PP-AUD-6	20	AUD-HOUSE-MAIN	LED	110
4	PP-AUD-6	20	AUD-HOUSE-MAIN	LED-EMERGENCY-RELAY UL924	400
5	PP-AUD-6	20	AUD-HOUSE-MAIN	LED	360
6	PP-AUD-4	20	AUD-HOUSE-MAIN	LED	364
7	PP-AUD-6	20	AUD-HOUSE-MAIN	LED-EMERGENCY-RELAY UL924	180
8	PP-AUD-10	20	AUD-HOUSE-BALC.	LED	48
9	PP-AUD-10	20	AUD-HOUSE-BALC.	LED	96
10	PP-AUD-10	20	AUD-HOUSE-BALC.	LED	756
11	PP-AUD-10	20	AUD-HOUSE-BALC.	LED-EMERGENCY-RELAY UL924	468
12	PP-AUD-16	20	SPARE	SPARE	
TOTAL					3,050

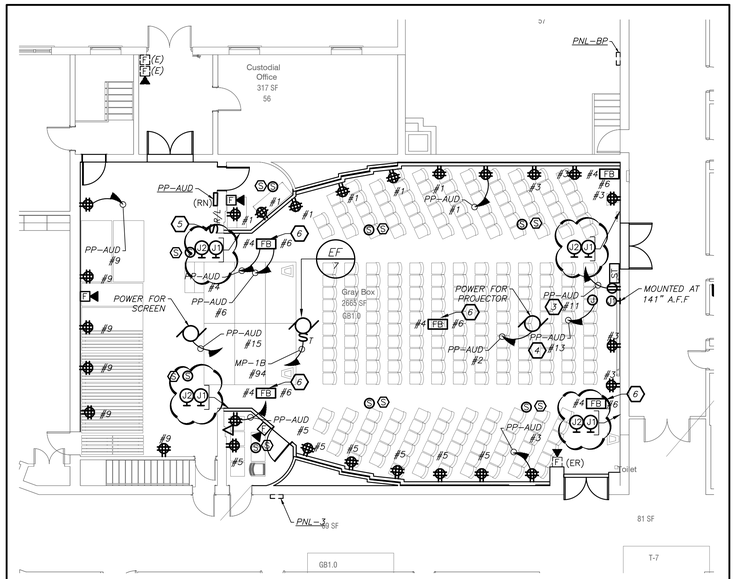
AUDITORIUM DIMMING SCHEDULE

2 / E-104 — NO SCALE



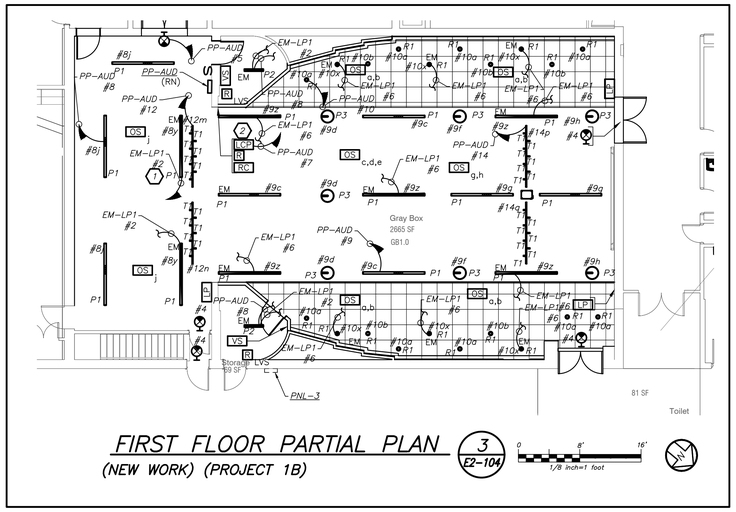
FIRST FLOOR PARTIAL PLAN
(REMOVALS) (PROJECT 1B)

1 / E2-104 — 0, 8', 16' — 1/8 inch=1 foot



FIRST FLOOR PARTIAL PLAN
(NEW WORK) (PROJECT 1B)

2 / E2-104 — 0, 8', 16' — 1/8 inch=1 foot



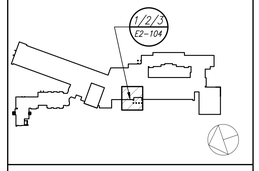
FIRST FLOOR PARTIAL PLAN
(NEW WORK) (PROJECT 1B)

3 / E2-104 — 0, 8', 16' — 1/8 inch=1 foot

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P.O. Box 1020
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Fielding International
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Warren , RI 02885 USA
+1 401-289-2789

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Construction Manager
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3 Campus Drive
Pleasantville, NY 10570
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Structural Engineer
ODEH ENGINEERS
1223 Mineral Spring Ave
North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
518-463-4400

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

SED#: 6618-0001-0003-025

PROJECT
Rye City Schools
555 Theodore Fremd Ave, Suite B-101

Midland Elementary School

312 Midland Ave, Rye NY 10580

GREY BOX ELECTRICAL REMOVALS, LIGHTING, POWER AND FIRE ALARM PLAN

PROJECT 1B

SEAL & SIGNATURE	DATE: 12/18/19
	PROJECT No: 9200
	DRAWING BY: BGA
	CHK BY: BGA
	DWG No: E2-104

EXTERIOR EMERGENCY LIGHTING CONTROL AND SEQUENCE OF OPERATION:

1. EXTERIOR BUILDING MOUNTED LIGHTS (TYPE Z) ARE CONTROLLED VIA BUILT-IN PHOTOCELL AND STEP-DIM MOTION SENSORS. IN BUILT BATTERY BACKUP SHALL OVERRIDE ALL SENSORS (PHOTOCELL AND OCCUPANCY SENSOR) IN THE EVENT OF EMERGENCY AT EGRESS DOORS AS SHOWN.
2. EXTERIOR BUILDING MOUNTED LIGHTS (TYPE Z1) ARE CONTROLLED VIA REMOTE PHOTOCELL AND STEP-DIM MOTION SENSORS. PROVIDE UL 924 EMERGENCY LIGHTING RELAY TO BYPASS ALL SENSORS (PHOTOCELL AND OCCUPANCY SENSOR) IN THE EVENT OF EMERGENCY AT EGRESS DOORS AS SHOWN.
3. ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA TWO SEPARATE EXISTING MANUAL WALL MOUNTED KEY SWITCHES AND OCCUPANCY SENSORS. THE OCCUPANCY SENSORS SHALL HAVE AUTO ON-AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN CORRIDOR IS VACANT. THE OCCUPANCY SENSOR SHALL CONTROL ONLY NORMAL/NON-EMERGENCY LIGHTING. THE LIGHTING FIXTURE DESIGNATED WITH EMERGENCY FEATURE SHALL BE CONTROLLED VIA WALL MOUNTED KEY SWITCH . UL 924 EMERGENCY LIGHTING RELAY (R) ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOSS OF POWER.

WORK NOTES:

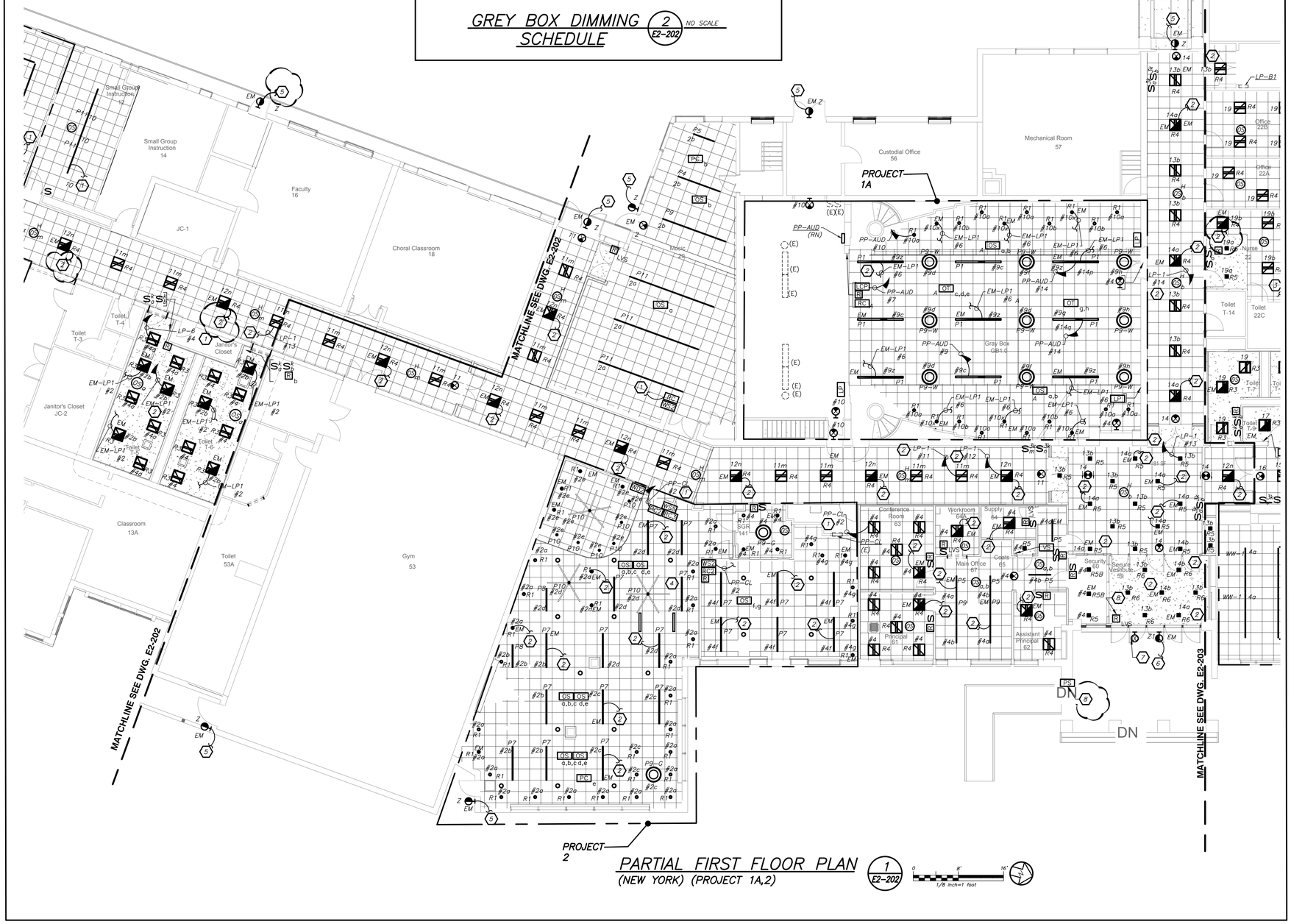
1. CIRCUIT NUMBERS ARE FOR CONTRACTOR GUIDANCE ONLY. WIRE LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK.

   WIRE CORRIDOR LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK. FIXTURES SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES.
2. WIRE EMERGENCY LIGHTING TO EMERGENCY LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK.
3. NOT USED
4. NOT USED
5. CIRCUIT EXTERIOR LIGHTING FIXTURE TYPE "Z" TO INTERIOR NORMAL LIGHTING CIRCUIT. FIXTURE SHALL BE CONTROLLED VIA INTEGRAL PHOTOCELL AND OCCUPANCY SENSOR. INCLUDE SELF CONTAINED BATTERY PACKS TO OVERRIDE ALL CONTROLS IN EVENT OF EMERGENCY.
6. PROVIDE NEW EXTERIOR EMERGENCY LIGHT FIXTURE 'Z1' AND CONNECT TO NEW EMERGENCY AND NORMAL LIGHTING CIRCUIT CONNECTED TO LVS RELAY SEE NOTE 7. FIXTURE SHALL BE CONTROLLED VIA NEW REMOTE PHOTOCELL AND OCCUPANCY SENSOR. REFER TO DETAIL 8/E2-701 FOR WIRING DIAGRAM. UPON INTERRUPTION OF NORMAL POWER ENTIRE LIGHT CIRCUIT FOR EXTERIOR LIGHT FIXTURE SHALL ILLUMINATE REGARDLESS OF PHOTOCELL OR OCCUPANCY CONTROL POSITION OF OPERATION.
7. PROVIDE UL924 RELAY SIMILAR TO LVS MODEL EPC-1-D-F TO OVERRIDE REMOTE PHOTOCELL AND OCCUPANCY SENSOR FOR EXTERIOR MOUNTED LIGHTING FIXTURE 'Z1.' CONNECT TO EMERGENCY AND NORMAL CIRCUIT SERVING THE AREA AHEAD OF ANY LOCAL SWITCHING. REFER TO DETAIL 8/E2-701 FOR ADDITIONAL INFORMATION.
8. PROVIDE TORK 2001 SERIES PHOTOCELL SENSOR AND HUBBELL LIGHTOWL #LO-IRWVRP-LWO DISABLE OCCUPANCY SENSOR. INCLUDE #UVPP POWER PACK MOUNTED ON THE BUILDING WALL TO OPERATE TYPE "Z1" EXTERIOR EMERGENCY LIGHTING FIXTURE.

GREY BOX DIMMING SCHEDULE—PROJECT 1A
LIGHT DIMMER PANEL: LP

ZONE #	CIRCUIT #	AMP	LUMINAIRE LOCATION	LUMINAIRE TYPE	LOAD (VA)
1	PP-AUD-10	20	GREY BOX-MAIN	LED	140
2	PP-AUD-10	20	GREY BOX-MAIN	LED	58
3	PP-AUD-10	20	GREY BOX-MAIN	LED-EMERGENCY-RELAY UL924	84
4	PP-AUD-9	20	GREY BOX-MAIN	LED-EMERGENCY-RELAY UL924	350
5	PP-AUD-9	20	GREY BOX-MAIN	LED	210
6	PP-AUD-9	20	GREY BOX-MAIN	LED	70
7	PP-AUD-9	20	GREY BOX-MAIN	LED	180
8	PP-AUD-9	20	GREY BOX-MAIN	LED	90
9	PP-AUD-9	20	GREY BOX-MAIN	LED	90
10	PP-AUD-5	20	SPARE	SPARE	0
11	PP-AUD-10	20	GREY BOX-STAGE	LED-EMERGENCY-RELAY UL924	140
12	PP-AUD-16	20	GREY BOX-MAIN	LED	128
12	PP-AUD-16	20	GREY BOX-MAIN	LED	128
12	PP-AUD-16	20	SPARE	SPARE	0
	TOTAL				1,668

GREY BOX DIMMING SCHEDULE — 2 / E2-202 — NO SCALE



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Structural Engineer
ODEH ENGINEERS
1223 Mineral Spring Ave
North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
518-463-4400

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

SED#: 6618-0001-0003-025

PROJECT

Rye City Schools
555 Theodore Fremd Ave, Suite B-101

Midland Elementary School

312 Midland Ave, Rye NY 10580

PARTIAL FIRST FLOOR LIGHTING PLAN

PROJECT 1A,2

SEAL & SIGNATURE

DATE: 12/18/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-202

MATCHLINE SEE DWG. E2-203

MATCHLINE SEE DWG. E2-203

PROJECT 1C

PROJECT 1C

PROJECT 1C

Classroom 42 | Toilet 42A | Classroom 44 | Classroom 46 | Classroom 48 | Classroom 50 | Classroom 52

Office 22B | Office 22A | Nurse 22 | Toilet T-14 | Toilet 22C | Toilet T-7 | Toilet T-8 | Toilet T-9

Classroom 24 | Classroom 26 | Classroom 28 | Classroom 30 | Classroom 19 | Classroom 21 | Classroom 23 | Classroom 25 | Classroom 27

Corridor 101A | Classroom 40 | Classroom 38 | Toilet | Toilet T-11 | Toilet T-10 | LEARNING SUITE 32 | Art 29 | Resource 34B | Small Group Instruction 35 | Small Group Instruction 36

EXTERIOR EMERGENCY LIGHTING CONTROL AND SEQUENCE OF OPERATION:

1. ALL WALL MOUNTED EXTERIOR SCONCES (TYPE Z) ARE CONTROLLED VIA BUILT-IN PHOTOCELL FOR NIGHT TIME OPERATION, AND REMOTE OCCUPANCY SENSORS TO DIM DOWN TO 50% DURING VACANCY. INCLUDE REMOTE BATTERY PACKS TO BYPASS PHOTOCELL SENSOR, AND PROVIDE UL 924 EMERGENCY LIGHTING RELAY TO BYPASS REMOTE OCCUPANCY SENSOR IN THE EVENT OF EMERGENCY.

2. ALL CANOPY MOUNTED SCONCES (TYPE Z1) ARE CONTROLLED VIA BUILT-IN OCCUPANCY SENSORS TO DIM DOWN TO 50% DURING VACANCY AND REMOTE PHOTOCELL SENSORS FOR NIGHT TIME OPERATION. INCLUDE SELF-CONTAINED BATTERY PACKS TO BYPASS OCCUPANCY SENSOR, AND PROVIDE UL 924 EMERGENCY LIGHTING RELAY TO BYPASS REMOTE PHOTOCELL IN THE EVENT OF EMERGENCY.

3. ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA TWO SEPARATE EXISTING MANUAL WALL MOUNTED KEY SWITCHES AND OCCUPANCY SENSORS. THE OCCUPANCY SENSORS SHALL HAVE AUTO ON-AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN CORRIDOR IS VACANT. THE OCCUPANCY SENSOR SHALL CONTROL ONLY NORMAL/NON-EMERGENCY LIGHTING. THE LIGHTING FIXTURE DESIGNATED WITH EMERGENCY FEATURE SHALL BE CONTROLLED VIA WALL MOUNTED KEY SWITCH . UL 924 EMERGENCY LIGHTING RELAY (R) ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOSS OF POWER.

WORK NOTES:

1. CIRCUIT NUMBERS ARE FOR CONTRACTOR GUIDANCE ONLY. WIRE LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK.
2. WIRE CORRIDOR LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK. FIXTURES SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES.
3. WIRE EMERGENCY LIGHTING TO EMERGENCY LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK.
4. CIRCUIT EXTERIOR LIGHTING FIXTURE TYPE "Z" TO INTERIOR NORMAL LIGHTING CIRCUIT. FIXTURE SHALL BE CONTROLLED VIA INTEGRAL PHOTOCELL AND OCCUPANCY SENSOR. INCLUDE SELF CONTAINED BATTERY PACKS TO OVERRIDE ALL CONTROLS IN EVENT OF EMERGENCY.

PARTIAL FIRST FLOOR PLAN
(NEW YORK) (PROJECT 1C)

1 / E2-203

0 8" 16"
1/8 inch=1 foot

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1 / E2-203

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Architecture. Planning. Interiors
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P.O. Box 1020
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Construction Manager
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Structural Engineer
ODEH ENGINEERS
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North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
518-463-4400

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

SED#: 6618-0001-0003-025

PROJECT

Rye City Schools
555 Theodore Fremd Ave, Suite B-101

Midland Elementary School

312 Midland Ave, Rye NY 10580

PARTIAL FIRST FLOOR LIGHTING PLAN

PROJECT 1C

SEAL & SIGNATURE

DATE: 12/18/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-203

GENERAL NOTES:

1. REMOVAL AND RELOCATING OF ALL SECURITY CAMERAS AND WIRELESS ACCESS POINTS SHALL BE DONE BY OWNER.

WORK NOTES:

1. WIRE RECEPTACLE TO EXISTING RECEPTACLE CIRCUIT IN AREA.
2. PROVIDE 2#12+1#12G IN 3/4" TO CIRCUIT AS INDICATED.

MATCHLINE SEE DWG. E2-303

MATCHLINE SEE DWG. E2-302

PROJECT 1C

FOR AUTOMATIC FLUSHOMETER AND FAUCETS.

PARTIAL FIRST FLOOR PLAN

(NEW YORK) (PROJECT 1C)

1/8" Inch=1 foot

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BARILE GALLAGHER & ASSOCIATES

CONSULTING ENGINEERS

39 MARBLE AVE PLEASANTVILLE, NY 10570
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SED#: 6618-0001-0003-025

PROJECT

Rye City Schools

555 Theodore Fremd Ave, Suite B-101

Midland Elementary School

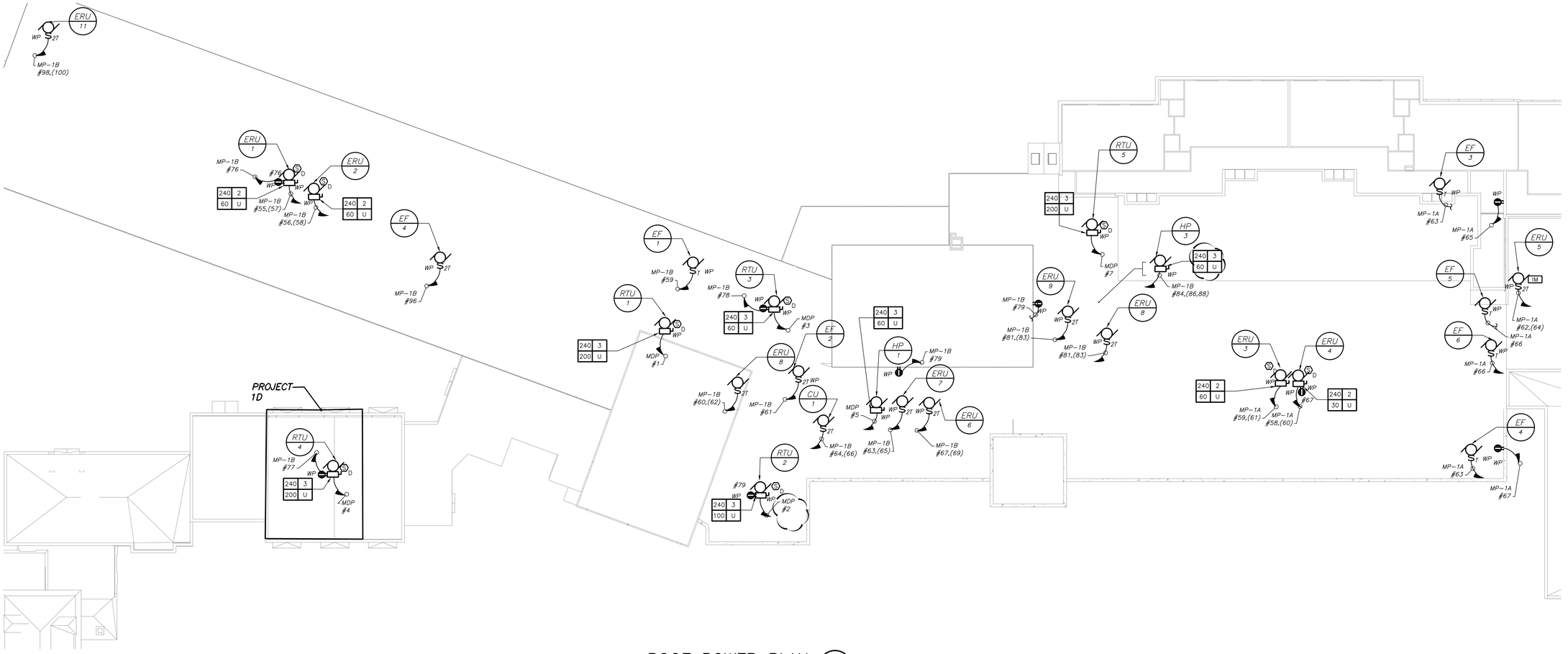
312 Midland Ave, Rye NY 10580

PARTIAL FIRST FLOOR POWER AND FIRE ALARM PLAN

PROJECT 1C

SEAL & SIGNATURE

DATE:	12/18/19
PROJECT No:	9200
DRAWING BY:	BGA
CHK BY:	BGA
DWG No:	E2-303



ROOF POWER PLAN (NEW WORK) (PROJECT 1D)

1 E2-304

0 16' 32'

1/16 inch=1 foot

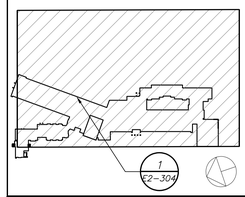
WORK NOTES:

(1) PROVIDE 2#12+1#12GIN 3/4" TO CIRCUIT AS INDICATED.

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Civil Engineer
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Providence, RI
401-861-3218

SED#: 6618-0001-0003-025

PROJECT

Rye City Schools

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Midland Elementary School

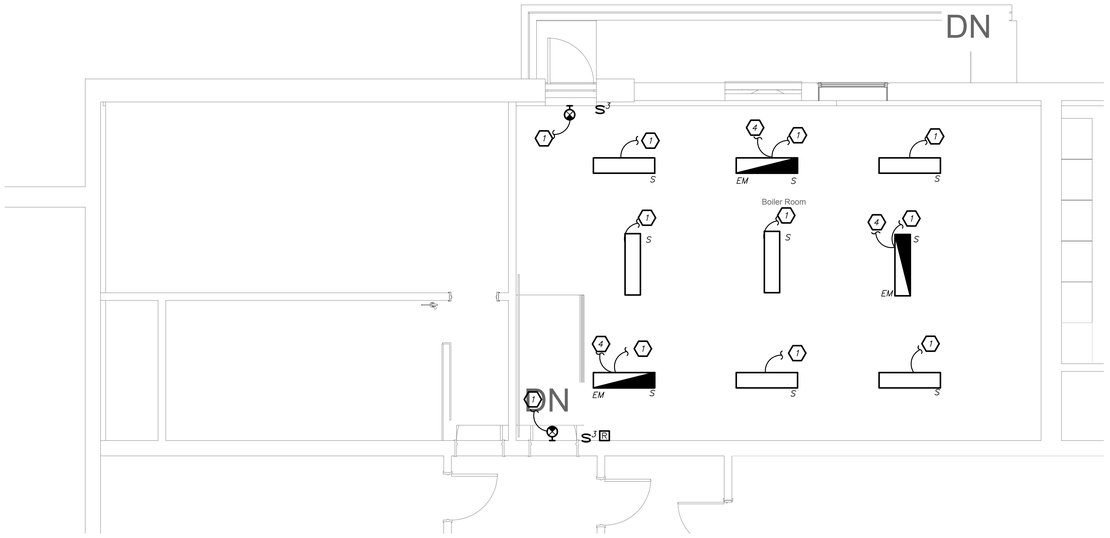
312 Midland Ave, Rye NY 10580

ROOF POWER AND FIRE ALARM PLAN

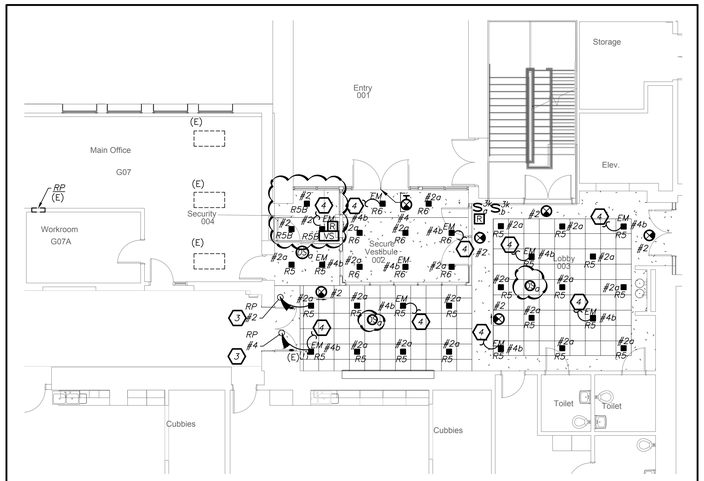
PROJECT 1D

SEAL & SIGNATURE

DATE: 12/18/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-304



PARTIAL GROUND FLOOR PLAN (3 / E2-201) 1/4 inch=1 foot
(NEW YORK)



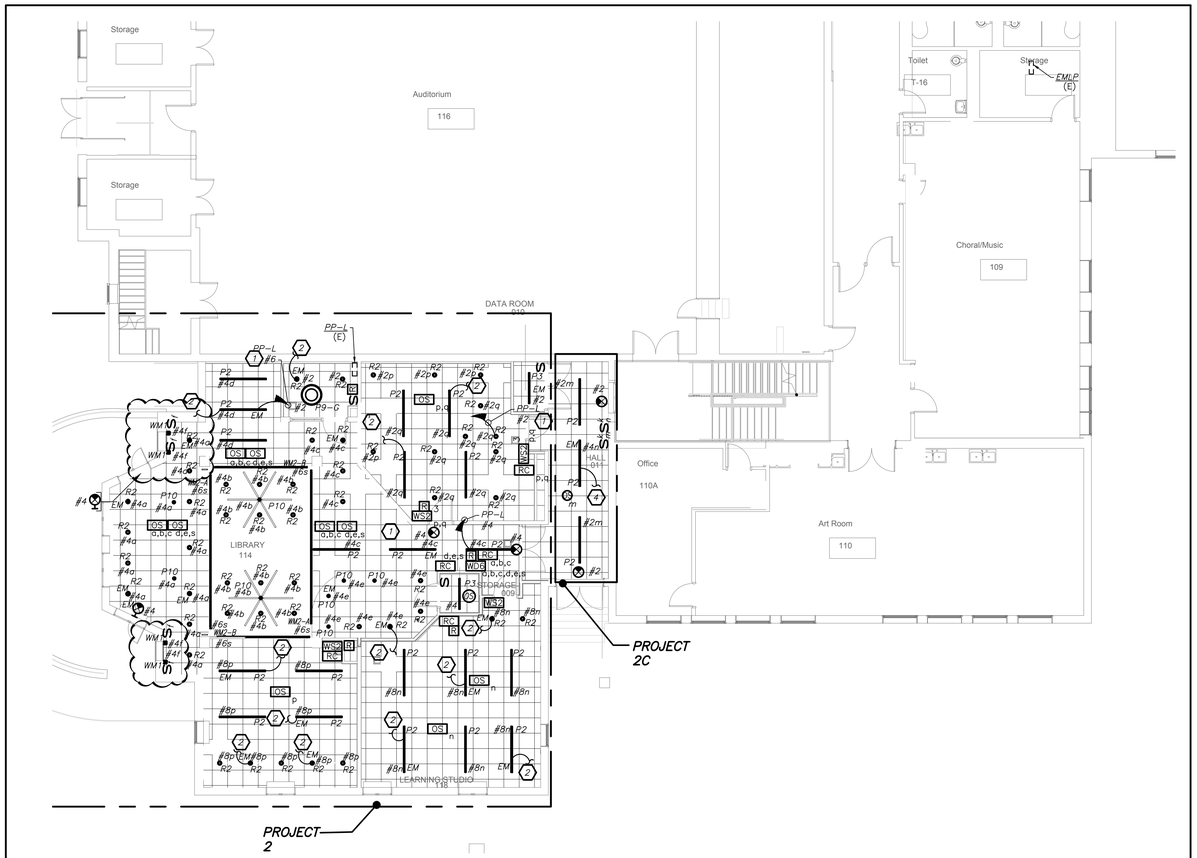
PARTIAL GROUND FLOOR PLAN (1 / E2-201) 1/8 inch=1 foot
(NEW YORK)

WORK NOTES:

1. CIRCUIT NUMBERS FOR CONTRACTOR GUIDANCE ONLY. WIRE LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK.
2. CIRCUIT EMERGENCY LIGHTING TO EMERGENCY PANEL EMLP #16. PROVIDE 2#12+1#12G IN 3/4".
3. CIRCUIT NUMBERS ARE FOR CONTRACTOR GUIDANCE ONLY. CIRCUIT LIGHTING TO CORRIDOR CIRCUIT MADE SPARE BY DEMO WORK. IF NOT OTHERWISE NOTED, LIGHTING SHALL BE CONTROLLED VIA EXISTING CORRIDOR LIGHT SWITCHES AND OCCUPANCY SENSORS.
4. CIRCUIT EMERGENCY LIGHTING TO EXISTING EMERGENCY CIRCUIT IN THE AREA.

LIGHTING CONTROL AND SEQUENCE OF OPERATION:

1. ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA TWO SEPARATE EXISTING MANUAL WALL MOUNTED KEY SWITCHES AND OCCUPANCY SENSORS. THE OCCUPANCY SENSORS SHALL HAVE AUTO ON-AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN CORRIDOR IS VACANT. THE OCCUPANCY SENSOR SHALL CONTROL ONLY NORMAL/NON-EMERGENCY LIGHTING. THE LIGHTING FIXTURE DESIGNATED WITH EMERGENCY FEATURE SHALL BE CONTROLLED VIA WALL MOUNTED KEY SWITCH . UL 924 EMERGENCY LIGHTING RELAY (R) ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOSS OF POWER.

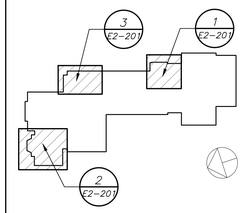


PARTIAL FIRST FLOOR PLAN (2 / E2-201) 1/8 inch=1 foot
(NEW YORK) (PROJECT 2,2C)

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

Revision Schedule

No.	Description	Date
1	SED Submission	09/15/2020
2	SED Submission Addendum#1	01/08/2021
3	ISSUED FOR BID	01/19/2021
4	BID ADDENDUM #1	01/29/2021



Geddis Architects
Architecture. Planning. Interiors
71 Old Post Road
P.O. Box 1020
Southport, CT 06890
(203) 256-8700

Fielding International
Transforming Education by Design
259 Water Street Suite 1L
Warren , RI 02885 USA
+1 401-289-2789

BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Construction Manager
SAVIN ENGINEERS, P.C.
3 Campus Drive
Pleasantville, NY 10570
914-769-3200

Structural Engineer
ODEH ENGINEERS
1223 Mineral Spring Ave
North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
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Albany, NY 12205
518-463-4400

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

SED#: 6618-0001-0002-015

PROJECT

Rye City Schools
555 Theodore Fremd Ave, Suite B-101

Milton Elementary School

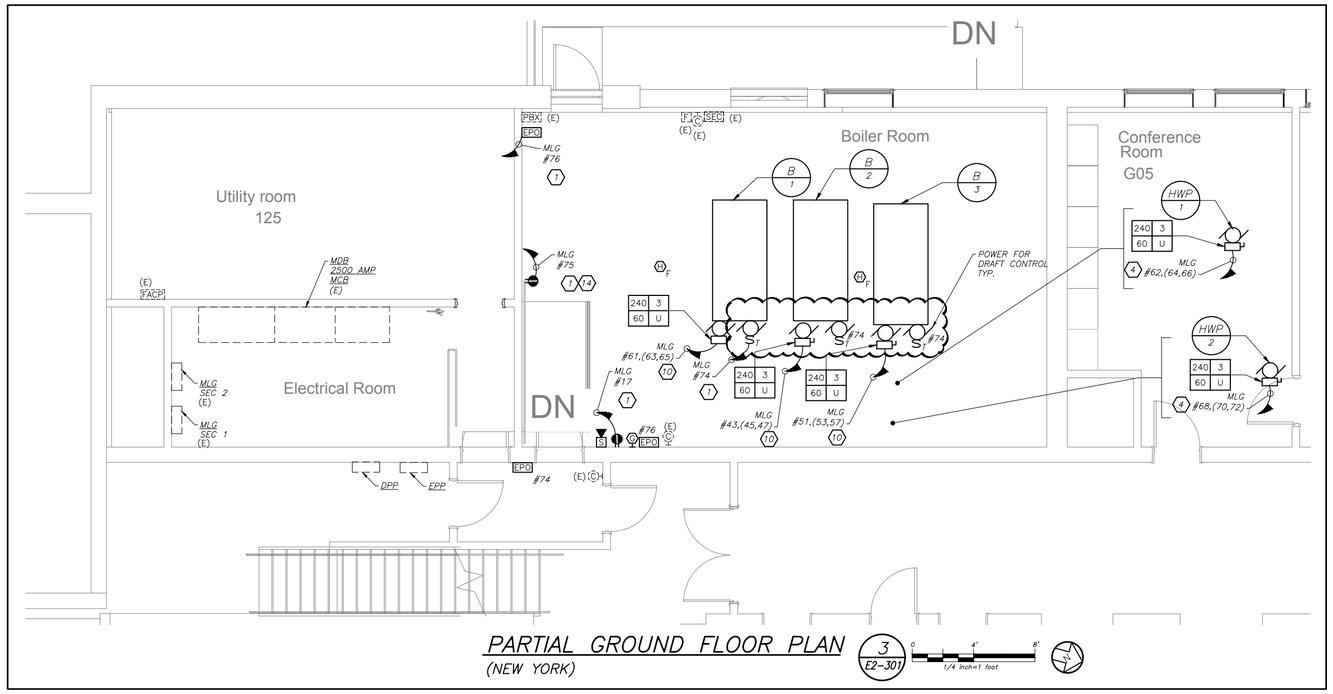
12 Hewlett St, Rye, NY 10580

NEW ELECTRICAL LIGHTING PLAN

PROJECT 2,2C

SEAL & SIGNATURE

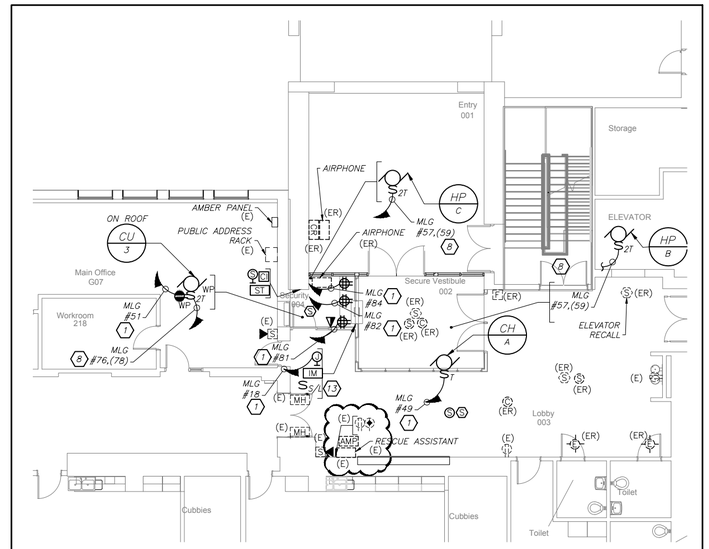
DATE:	02/11/20
PROJECT No:	9200
DRAWING BY:	BGA
CHK BY:	BGA
DWG No:	E2-201



PARTIAL GROUND FLOOR PLAN

(NEW YORK)

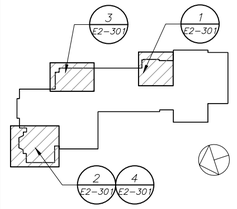
3 E2-301 — 1/4 inch=1 foot



PARTIAL GROUND FLOOR PLAN

(NEW YORK)

1 E2-301 — 1/8 inch=1 foot



Revision Schedule

No.	Description	Date
1	SED Submission	09/15/2020
2	SED Submission Addendum#1	01/08/2021
3	ISSUED FOR BID	01/19/2021
4	BID ADDENDUM #1	01/29/2021

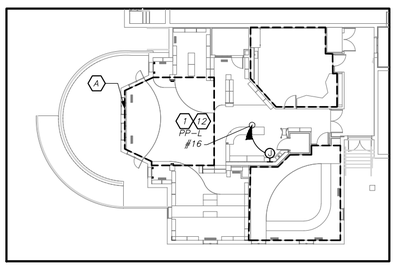
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TELE COIL WORK NOTES:

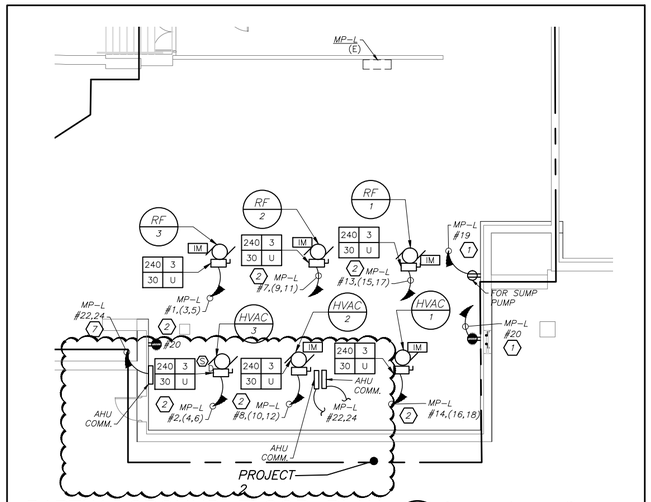
A. ELECTRICAL CONTRACTOR SHALL SCORE THE FLOOR AND FURNISH AND INSTALL TELECOIL LOOP. REFER TO AV2 DRAWINGS FOR MORE DETAILS ON THE TOTAL SCOPE OF WORK INCLUDING 27000 SECTION OF SPECIFICATION.



LISTENING LOOP IN LIBRARY

(NEW YORK) (PROJECT 2A)

5 E2-301 — N.T.S. — 1/16 inch=1 foot



PARTIAL GROUND FLOOR PLAN

(NEW YORK) (PROJECT 2)

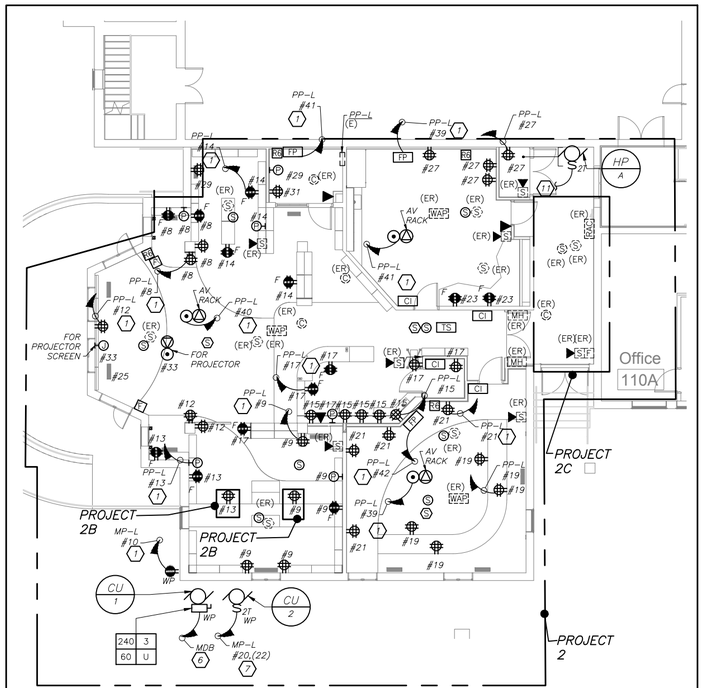
4 E2-301 — 1/8 inch=1 foot

GENERAL NOTES:

1. COORDINATE ALL LIBRARY AV DEVICE LOCATIONS WITH AV CONTRACTOR BEFORE THE START OF ANY WORK.
2. COORDINATE EXACT FINAL LOCATION OF ALL AV RELATED BOXES AND EQUIPMENT WITH AV2 DRAWING AND VENDOR BEFORE THE START OF ANYWORK. ELECTRICAL CONTRACTOR SHALL NOT START INSTALLATION UNTIL YOU THEY HAVE A SIGN OF FROM SCHOOL DISTRICT AND CONSTRUCTION MANAGER.

WORK NOTES:

1. PROVIDE 2#12+1#12G IN 3/4"C TO CIRCUIT AS INDICATED. PROVIDE 1P-20 AMP BREAKER. CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. WIRE TO CIRCUIT MADE SPARE BY DEMO WORK.
2. PROVIDE 3#12+1#12G IN 3/4"C TO CIRCUIT AS INDICATED. PROVIDE 3P-20 AMP BREAKER. CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. WIRE TO CIRCUIT MADE SPARE BY DEMO WORK.
3. NOT USED
4. PROVIDE 3#8+1#10G IN 3/4"C TO PANEL AS INDICATED. PROVIDE 3P-40 AMP BREAKER. CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. WIRE TO CIRCUIT MADE SPARE BY DEMO WORK.
5. NOT USED
6. PROVIDE 3#6+1#10G IN 1" TO THE MAIN DISTRIBUTION BOARD IN THE MAIN ELECTRICAL ROOM. PROVIDE 3P-60 AMP BREAKER.
7. PROVIDE 2#12+1#12G IN 3/4"C TO PANEL AS INDICATED. PROVIDE 2P-20AMP BREAKER.
8. PROVIDE 2#12+1#12G IN 3/4"C TO CIRCUIT AS INDICATED. PROVIDE 1P-20 AMP BREAKER. CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. WIRE TO CIRCUIT MADE SPARE BY DEMO WORK.
9. NOT USED
10. PROVIDE 3#8+1#10G IN 3/4"C TO CIRCUIT AS INDICATED. PROVIDE 3P-40 AMP BREAKER WITH A SHUNT TRIP. CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. WIRE TO CIRCUIT MADE SPARE BY DEMO WORK.
11. PROVIDE POWER FOR INDOOR UNIT FROM CU-2 LOCATED ON GRADE. PROVIDE 2#12+1#12G IN 3/4 CONDUIT FOR CU-2 ON THE ROOM.
12. PROVIDE POWER FOR TELE-COIL LOOP POWER SUPPLY.
13. PROVIDE POWER FOR FIRE SHUTTERS. AND INTERCONNECT WITH RAISE AND LOWER SWITCH. FIRE SHUTTER SHALL BE INTERFACE WITH FIRE ALARM VIA INTERFACE MODULE AS SHOWN.
14. PROVIDE RECEPTACLE OF CHEMICAL FILL. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR BEFORE THE START OF ANY WORK.



PARTIAL FIRST FLOOR PLAN

(NEW YORK) (PROJECT 2,2B,2C)

2 E2-301 — 1/8 inch=1 foot

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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SAVIN ENGINEERS, P.C.
3 Campus Drive
Pleasantville, NY 10570
914-769-3200

Structural Engineer
ODEH ENGINEERS
1223 Mineral Spring Ave
North Providence, RI 02904
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Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

SED#: 6618-0001-0002-015

PROJECT

Rye City Schools

555 Theodore Fremd Ave, Suite B-101

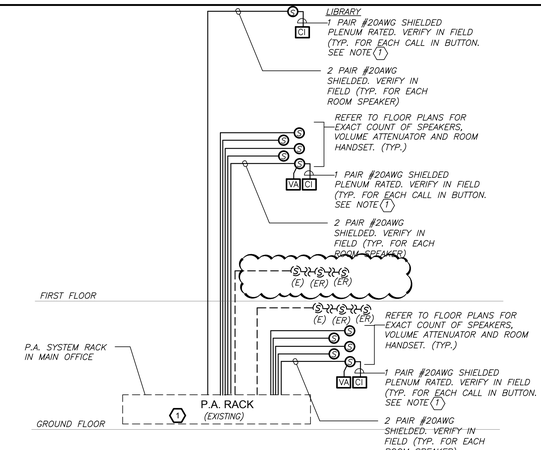
Milton Elementary School

12 Hewlett St, Rye, NY 10580

NEW ELECTRICAL POWER AND FIRE ALARM PLAN

PROJECT 2, 2A, 2B,2C

SEAL & SIGNATURE	DATE: 02/11/20
	PROJECT No: 9200
	DRAWING BY: BGA
	CHK BY: BGA
	DWG No: E2-301



GENERAL NOTES:

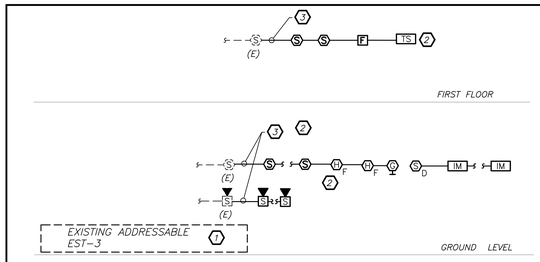
1. VERIFY EXACT QUANTITY AND LOCATION OF DEVICES ON PLAN DRAWINGS.
2. WIRING TYPES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURER.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE PLENUM RATED WIRING AND RUN EXPOSED ABOVE ACCESSIBLE CEILING. IT SHALL BE RUN IN EMT CONDUIT WHERE EXPOSED, EXCEPT IN CORRIDORS AND OFFICES WIRING SHALL BE RUN IN STEEL SURFACE RACEWAY (SIMILAR TO WIREMOLD V-500 AND/OR V-700). WIRING SHALL ALSO BE RUN IN EMT FOR STUB-UPS IN CONCEALED WALLS.
4. SPEAKERS SHALL MATCH EXISTING TYPE. VERIFY WATTAGE TAP REQUIREMENTS IN FIELD.
5. ALL PROGRAMMING AND FINAL CONNECTIONS TO EXISTING P.A. SYSTEM SHALL BE BY SYSTEM MAINTENANCE CONTRACTOR. ALL COSTS ASSOCIATED WITH THIS SHALL BE BY ELECTRICAL CONTRACTOR.

WORK NOTES:

1. PROVIDE NEW SWITCH ZONE CARD, AMPLIFIER, ETC. AS REQUIRED FOR COMPLETE INSTALLATION. EXISTING SYSTEM IS DUKANE AND IS LOCATED IN MAIN OFFICE.

PARTIAL PUBLIC ADDRESS RISER DIAGRAM

2 / E2-501 — N.T.S.



FIRE ALARM SYSTEM NOTES:

1. FIRE ALARM WIRING DIAGRAMS SHOWN ARE FOR GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND OBTAIN POINT TO POINT WIRING DIAGRAM PRIOR TO INSTALLATION. VERIFY EXACT QUANTITY OF DEVICES WITH PLANS.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED RELAYS, CONTACTS, ZONE BOARDS, ETC. FOR A COMPLETE AND FULLY FUNCTIONAL FIRE ALARM SYSTEM.
3. THE FIRE ALARM INSTALLATION SHALL COMPLY WITH STATE & LOCAL BUILDING CODES, NATIONAL ELECTRICAL CODE, THE AMERICANS WITH DISABILITIES ACT (ADA), AND NFPA 72, 101 AND 90A AND STATE EDUCATION DEPT.
4. PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
5. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND PROTECT EXISTING FIRE ALARM SPEAKER SMOKE DETECTORS, AND OTHER FIRE ALARM SAFETY DEVICES IN OPERATION AT ALL TIMES. IF ANY PORTION OF FIRE ALARM SYSTEM IS DISABLED, NOTIFY BUILDING OWNER IMMEDIATELY.
6. UNLESS DIRECTED OTHERWISE BY FIRE ALARM MAINTENANCE VENDOR FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY):

   SPEAKER WIRING – #16 AWG TWISTED
   STROBE WIRING – #14 AWG TWISTED
   SIGNAL WIRING – #14 AWG TWISTED/SHIELDED

   THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
   A. A MINIMUM TEMPERATURE RATING OF 150 C
   B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS
   C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS
   D. THE COLOR OF THE CABLE SHALL BE RED.
   E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE) WHEN CONDUIT IS USED. SEE NOTE 5 FOR ADDITIONAL CLARIFICATION.
   F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.

   CONFIRM WIRING TYPE AND QUANTITY WITH FIRE ALARM SYSTEM MANUFACTURER PRIOR TO PURCHASING.
7. PROVIDE MC FIRE ALARM CABLE WITH RED STRIPE AS MANUFACTURED BY AFC SERIES 1800 WHEN CABLE IS CONCEALED OR ABOVE HUNG CEILING. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN FINISHED AREAS, CABLE SHALL RUN IN WIREMOLD V-700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN. 3/4" CONDUIT.
8. STROBES SHALL HAVE A MINIMUM LIGHT OUTPUT OF 75 CANDELA AND A FLASH RATE OF 1-3 HZ.
9. WALL MOUNTED SPEAKER/STROBE UNITS SHALL NOT HAVE ANY OTHER DEVICES OR APPURTENANCES WITHIN 5 FEET OF THE DEVICE. THE ENTIRE LENS OF THE UNIT SHALL NOT BE LESS THAN 80", AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR, WHILE MAINTAINING 6" BELOW THE CEILING . DEVICES SHALL BE FLUSH MOUNTED IN ALL FINISHED AREAS. PROVIDE DOUBLE DEEP DEVICE BOX IN WALL.
10. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
11. COORDINATE F.A WORK WITH F.A VENDOR.
12. VERIFY EXACT QUANTITIES OF FIRE ALARM DEVICES WITH PLANS.
13. ALL DEVICES SHALL BE SUPERVISED AS PER N.F.P.A. 72. PROVIDE END OF LINE RESISTORS AS REQUIRED PER INDIVIDUAL MANUFACTURER. PROVIDE LOAD RELAYS AS REQUIRED FOR PROPER OPERATION OF EQUIPMENT.
14. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND MAPPING OF EACH DEVICE AS REQUIRED.

FIRE ALARM RISER WORK NOTES:

1. PROVIDE ALL NECESSARY EXPANSION COMPONENTS (LOOP CARDS, ETC.) BOOSTER POWER SUPPLIES, REMOTE BOOSTER POWER SUPPLIES, PROGRAMMING, UPDATE DATA BASE, TESTING, ETC. PANEL IS LOCATED IN THE ELECTRICAL ROOM ON THE LOWER LEVEL.
2. PROVIDE DEVICE ADDRESS WITH A PERMANENT TYPE LABEL FOR ALL INITIATING DEVICES.
3. CONNECT TO EXISTING LOOP

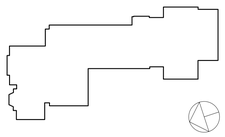
FIRE ALARM RISER DIAGRAM

1 / E2-501 — N.T.S.

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SED#: 6618-0001-0002-015

PROJECT

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ELECTRICAL RISERS

SEAL & SIGNATURE

DATE: 02/11/20
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-501

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

SED #: 66180001-0005-032

UNIFORM SAFETY STANDARDS COMMISIONER'S REGULATIONS 155.5

1. Statement:

   "The occupied portion of any school building shall always comply with the minimum requirements necessary to maintain a certificate of occupancy."

2. Indication that all school areas to be disturbed during renovation or demolition have been or will be tested for lead and asbestos. Note, the project folder should contain a letter regarding the presence of asbestos.
3. Statement:

   "General safety and security standards for construction projects.

   1. All construction materials shall be stored in a safe and secure manner.
   2. Fences around construction supplies or debris shall be maintained.
   3. Gates shall always be locked unless a worker is in attendance to prevent unauthorized entry.
   4. During exterior renovation work, overhead protection shall be provided for any sidewalks or areas immediately beneath the work site or such areas shall be fenced off and provided with warning signs to prevent entry.
   5. Workers shall be required to wear photo-identification badges at all times for identification and security purposes while working at occupied sites."

4. Statement:

   "Separation of construction areas from occupied spaces. Construction areas which are under the control of a contractor and therefore not occupied by district staff or students shall be separated from occupied areas. Provisions shall be made to prevent the passage of dust and contaminants into occupied parts of the building. Periodic inspection and repairs of the containment barriers must be made to prevent exposure to dust or contaminants. Gypsum board must be used in exit ways or other areas that require fire rated separation. Heavy duty plastic sheeting may be used only for a vapor, fine dust or air infiltration barrier, and shall not be used to separate occupied spaces from construction areas.

   1. A specific stairwell and/or elevator should be assigned for construction worker use during work hours. In general, workers may not use corridors, stairs or elevators designated for students or school staff.
   2. Large amounts of debris must be removed by using enclosed chutes or a similar sealed system. There shall be no movement of debris through halls of occupied spaces of the building. No material shall be dropped or thrown outside the walls of the building.
   3. All occupied parts of the building affected by renovation activity shall be cleaned at the close of each workday. School buildings occupied during a construction project shall maintain required health, safety and educational capabilities at all times that classes are in session."
   4. A plan detailing how exiting required by the applicable building code will be maintained.
   5. A plan detailing how adequate ventilation will be maintained during construction.

5. Statement:

   "Construction and maintenance operations shall not produce noise in excess of 60 dba in occupied spaces or shall be scheduled for times when the building or affected building spaces are not occupied or acoustical abatement measures shall be taken."

6. Statement:

   "The contractor shall be responsible for the control of chemical fumes, gases, and other contaminates produced by welding, gasoline or diesel engines, roofing, paving, painting, etc. to ensure they do not enter occupied portions of the building or air intakes."

7. Statement:

   "The contractor shall be responsible to ensure that activities and materials which result in "off-gassing" of volatile organic compounds such as glues, paints, furniture, carpeting, wall covering, drapery, etc. are scheduled, cured or ventilated in accordance with manufacturers recommendations before a space can be occupied."

8. Statement:

   "Large and small asbestos abatement projects as defined by 12NYCRR56 shall not be performed while the building is occupied". Note, It is our interpretation that the term "building", as referenced in this section, means a wing or major section of a building that can be completely isolated from the rest of the building with sealed non combustible construction. The isolated portion of the building must contain exits that do not pass through the occupied portion and ventilation systems must be physically separated and sealed at the isolation barrier.

   Exterior work such as roofing, flashing, siding, or soffit work may be performed on occupied buildings provided proper variances are in place as required, and complete isolation of ventilation systems and at windows is provided. Care must be taken to schedule work so that classes are not disrupted by noise or visual distraction.

9. Surfaces that will be disturbed by reconstruction must have a determination made as to the presence of lead. Projects which disturb surfaces that contain lead shall have in the specifications a plan prepared by a certified Lead Risk Assessor or Supervisor which details provisions for occupant protection, worksite preparation, work methods, cleaning and clearance testing which are in general accordance with the HUD Guidelines.

DRAWINGS INDEX

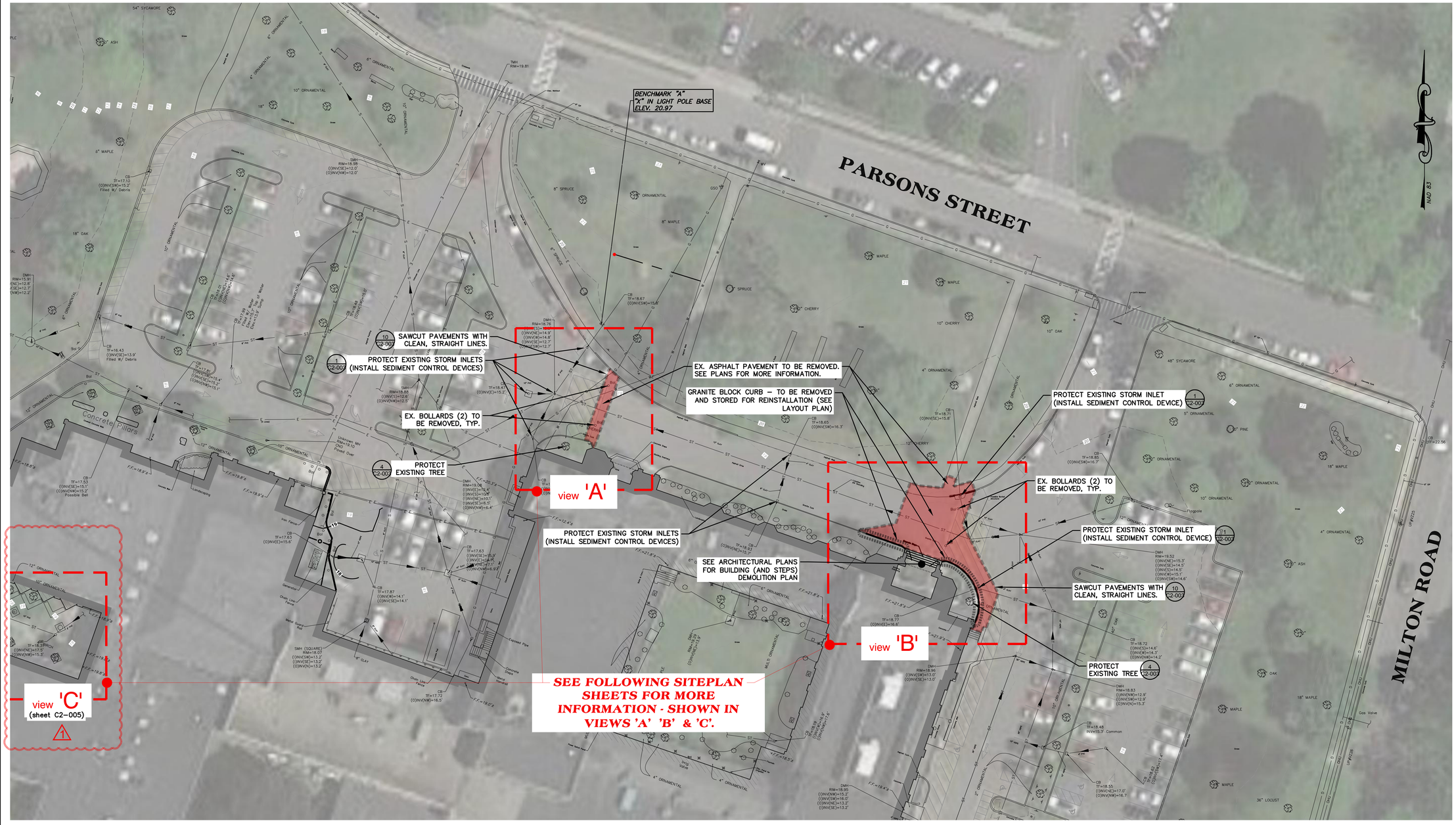
Number	Name	Current Revision	Description	Date
T2-001	TITLE SHEET - PHASE 2	4	BID ADDENDUM #1	01/29/2021
C2-001	EXISTING CONDITIONS AND DEMO	3	ISSUED FOR BID	01/19/2021
C2-002	SITE PLAN	3	ISSUED FOR BID	01/19/2021
C2-003	CONSTRUCTION DETAILS	3	ISSUED FOR BID	01/19/2021
C2-004	CONSTRUCTION DETAILS	3	ISSUED FOR BID	01/19/2021
C2-005	MIDDLE SCHOOL ENTRANCE SITEPLAN			
C2-100	EXISTING SURVEY			
CIP-001	CONSTRUCTION IMPLEMENTATION PLAN - GENERAL NOTES & MILESTONE SCHEDULES	3	ISSUED FOR BID	01/19/2021
CIP-002	CONSTRUCTION IMPLEMENTATION PLAN - SITE PLAN & FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
CIP-003	CONSTRUCTION IMPLEMENTATION PLAN - SECOND PLAN & PARTIAL THIRD FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
CIP-004	CONSTRUCTION IMPLEMENTATION PLAN - STRUCTURAL PLAN & ARCHITECTURE ROOF PLAN	3	ISSUED FOR BID	01/19/2021
CIP-005	CONSTRUCTION IMPLEMENTATION PLAN - STRUCTURAL PLAN & MECHANICAL ROOF PLAN	3	ISSUED FOR BID	01/19/2021
CIP-006	CONSTRUCTION IMPLEMENTATION PLAN - BOILER PIPING & PARTIAL BASEMENT PLAN	3	ISSUED FOR BID	01/19/2021
X2-101	FIRST FLOOR CODE COMPLIANCE PLAN	3	ISSUED FOR BID	01/19/2021
X2-102	SECOND FLOOR CODE COMPLIANCE PLAN	3	ISSUED FOR BID	01/19/2021
X2-103	THIRD FLOOR CODE COMPLIANCE PLAN	3	ISSUED FOR BID	01/19/2021
X2-120	HIGH SCHOOL ENTRY and MS ILAB CODE COMPLIANCE PLAN	3	ISSUED FOR BID	01/19/2021
X2-121	THIRD FLOOR LEARNING COMMUNITY CODE COMPLIANCE PLAN	3	ISSUED FOR BID	01/19/2021
HSMS-ASB-101	FIRST FLOOR ASBESTOS ABATEMENT	3	ISSUED FOR BID	01/19/2021
HSMS-ASB-102	SECOND FLOOR ASBESTOS ABATEMENT	3	ISSUED FOR BID	01/19/2021
HSMS-ASB-103	THIRD FLOOR ASBESTOS ABATEMENT	3	ISSUED FOR BID	01/19/2021
HSMS-ASB-104	ROOF ASBESTOS ABATEMENT	3	ISSUED FOR BID	01/19/2021
D2-101	FIRST FLOOR DEMOLITION PLAN	4	BID ADDENDUM #1	01/29/2021
D2-102	SECOND FLOOR DEMOLITION PLAN	3	ISSUED FOR BID	01/19/2021
D2-103	THIRD FLOOR DEMOLITION PLAN	3	ISSUED FOR BID	01/19/2021
D2-201	EXTERIOR DEMOLITION ELEVATIONS	3	ISSUED FOR BID	01/19/2021
D2-202	EXTERIOR DEMOLITION ELEVATIONS	3	ISSUED FOR BID	01/19/2021
D2-203	EXTERIOR DEMOLITION ELEVATIONS	3	ISSUED FOR BID	01/19/2021
A2-101	HIGH SCHOOL & MIDDLE SCHOOL FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-102	HIGH SCHOOL & MIDDLE SCHOOL SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-103	HIGH SCHOOL & MIDDLE SCHOOL THIRD FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-110	ROOF PLAN	3	ISSUED FOR BID	01/19/2021
A2-111	PARTIAL ROOF PLAN	3	ISSUED FOR BID	01/19/2021
A2-112	ROOF DETAILS	3	ISSUED FOR BID	01/19/2021
A2-113	ROOF DETAILS	3	ISSUED FOR BID	01/19/2021
A2-114	ROOF DETAILS	3	ISSUED FOR BID	01/19/2021
A2-115	ROOF DETAILS	3	ISSUED FOR BID	01/19/2021
A2-201	EXTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021
A2-202	EXTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021
A2-203	EXTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021
A2-300	WALL TYPES	3	ISSUED FOR BID	01/19/2021
A2-301	MIDDLE SCHOOL ENTRANCE SECTIONS	3	ISSUED FOR BID	01/19/2021
A2-310	MIDDLE SCHOOL WALL SECTIONS & DETAILS	3	ISSUED FOR BID	01/19/2021
A2-311	MIDDLE SCHOOL WALL SECTIONS	3	ISSUED FOR BID	01/19/2021
A2-312	MIDDLE SCHOOL WALL SECTIONS	3	ISSUED FOR BID	01/19/2021
A2-313	STOREFRONT SYSTEM DETAILS	3	ISSUED FOR BID	01/19/2021
A2-314	STOREFRONT SYSTEM & COLUMN DETAILS	3	ISSUED FOR BID	01/19/2021
A2-315	DETAILS AT CLERESTORY AND STAIR TOWER	3	ISSUED FOR BID	01/19/2021
A2-320	THIRD FLOOR LEARNING COMMUNITY SECTION DETAILS	3	ISSUED FOR BID	01/19/2021
A2-321	THIRD FLOOR LEARNING COMMUNITY AND HS ENTRY DETAILS	3	ISSUED FOR BID	01/19/2021
A2-322	HIGH SCHOOL ENTRANCE DETAILS	3	ISSUED FOR BID	01/19/2021
A2-323	MIDDLE SCHOOL SECURITY OFFICE CASEWORK	3	ISSUED FOR BID	01/19/2021
A2-350	ELEVATOR DEMOLITION AND FLOOR PLANS	3	ISSUED FOR BID	01/19/2021
A2-351	ELEVATOR SECTIONS	3	ISSUED FOR BID	01/19/2021
A2-352	ELEVATOR VESTIBULE REFLECTED CEILING PLAN & INTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021
A2-400	CEILING FIXTURE AND MATERIAL LEGENDS	3	ISSUED FOR BID	01/19/2021
A2-401	FIRST FLOOR REFLECTED CEILING PLAN	3	ISSUED FOR BID	01/19/2021
A2-402	SECOND FLOOR REFLECTED CEILING PLAN	3	ISSUED FOR BID	01/19/2021
A2-403	THIRD FLOOR REFLECTED CEILING PLAN	3	ISSUED FOR BID	01/19/2021
A2-501	MIDDLE SCHOOL ENTRANCE DEMOLITION PLAN, FLOOR PLAN, REFLECTED CEILING PLAN & FLOOR FINISH PLAN	3	ISSUED FOR BID	01/19/2021
A2-502	MIDDLE SCHOOL ENTRANCE INTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021
A2-503	NEW STAFF OFFICES DEMOLITION PLAN AND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-504	NEW STAFF OFFICES REFLECTED CEILING PLAN AND FLOOR FINISH PLAN	3	ISSUED FOR BID	01/19/2021
A2-505	MIDDLE SCHOOL OFFICE SUITE DEMOLITION PLAN AND REFLECTED CEILING PLAN	3	ISSUED FOR BID	01/19/2021
A2-506	ENLARGED FIRST FLOOR CLASSROOM DEMOLITION PLAN AND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-507	ENLARGED SECOND FLOOR CLASSROOM DEMOLITION PLAN AND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-508	LOUVER AND VENTILATION PLACEMENT ELEVATIONS	3	ISSUED FOR BID	01/19/2021
A2-511	HIGH SCHOOL ENTRANCE PLANS	3	ISSUED FOR BID	01/19/2021
A2-512	HIGH SCHOOL ENTRANCE PLANS	3	ISSUED FOR BID	01/19/2021
A2-513	HIGH SCHOOL ENTRANCE ELEVATION	3	ISSUED FOR BID	01/19/2021
A2-515	THIRD FLOOR LEARNING COMMUNITY DEMO DRAWINGS	3	ISSUED FOR BID	01/19/2021
A2-516	THIRD FLOOR LEARNING COMMUNITY FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-517	THIRD FLOOR LEARNING COMMUNITY POWER AND TECHNOLOGY PLAN	3	ISSUED FOR BID	01/19/2021
A2-518	THIRD FLOOR LEARNING COMMUNITY REFLECTED CEILING PLAN	3	ISSUED FOR BID	01/19/2021
A2-519	THIRD FLOOR LEARNING COMMUNITY FINISH PLAN	3	ISSUED FOR BID	01/19/2021
A2-520	THIRD FLOOR LEARNING COMMUNITY INTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021
A2-521	THIRD FLOOR LEARNING COMMUNITY INTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021
A2-522	MS i-LAB DEMO PLAN AND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-523	MS i-LAB POWER AND TECHNOLOGY PLAN	3	ISSUED FOR BID	01/19/2021
A2-524	MS i-LAB REFLECTED CEILING PLAN	3	ISSUED FOR BID	01/19/2021
A2-525	MS i-LAB FINISH PLANS	3	ISSUED FOR BID	01/19/2021
A2-526	MS i-LAB INTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021
A2-531	ENLARGED TOILET PLANS, ELEVATIONS & FINISHES	3	ISSUED FOR BID	01/19/2021
A2-532	ENLARGED TOILET PLANS, ELEVATIONS & FINISHES	3	ISSUED FOR BID	01/19/2021
A2-533	ENLARGED TOILET PLANS, ELEVATIONS & FINISHES	3	ISSUED FOR BID	01/19/2021
A2-534	ENLARGED TOILET PLANS, ELEVATIONS & FINISHES	3	ISSUED FOR BID	01/19/2021
A2-535	ENLARGED TOILET PLANS, ELEVATIONS & FINISHES	3	ISSUED FOR BID	01/19/2021
A2-601	DOOR SCHEDULE	3	ISSUED FOR BID	01/19/2021
A2-602	DOOR TYPES	3	ISSUED FOR BID	01/19/2021
A2-603	WINDOW TYPES	3	ISSUED FOR BID	01/19/2021
A2-605	INTERIOR GLAZING SCHEDULE	3	ISSUED FOR BID	01/19/2021
A2-606	CURTAIN WALL AND ENTRANCE DOOR DETAILS	3	ISSUED FOR BID	01/19/2021
A2-700	FINISH SCHEDULE & LEGEND	3	ISSUED FOR BID	01/19/2021
A2-701	FIRST FLOOR FINISH PLAN	3	ISSUED FOR BID	01/19/2021
A2-702	SECOND FLOOR FINISH PLAN	3	ISSUED FOR BID	01/19/2021
A2-703	THIRD FLOOR FINISH PLAN	3	ISSUED FOR BID	01/19/2021
A2-730	WALL GRAPHICS AND GLAZING TYPES	3	ISSUED FOR BID	01/19/2021
A2-800	CASEWORK - THIRD FLOOR - STUDENT LOCKERS	3	ISSUED FOR BID	01/19/2021
A2-801	CASEWORK - THIRD FLOOR STUDENT LOCKERS TYPE B	3	ISSUED FOR BID	01/19/2021
A2-900	FURNITURE SCHEDULE THIRD FLOOR	3	ISSUED FOR BID	01/19/2021
A2-901	FURNITURE SCHEDULE THIRD FLOOR	3	ISSUED FOR BID	01/19/2021
A2-902	FURNITURE SCHEDULE THIRD FLOOR	3	ISSUED FOR BID	01/19/2021
A2-903	FURNITURE SCHEDULE THIRD FLOOR	3	ISSUED FOR BID	01/19/2021
A2-904	FURNITURE SCHEDULE MS iLAB	3	ISSUED FOR BID	01/19/2021
A2-905	FURNITURE SCHEDULE MS iLAB	3	ISSUED FOR BID	01/19/2021
A2-906	FURNITURE SCHEDULE MS iLAB	3	ISSUED FOR BID	01/19/2021
A2-907	FURNITURE SCHEDULE HS ENTRY	3	ISSUED FOR BID	01/19/2021
A2-910	FIRST FLOOR FURNITURE PLAN	3	ISSUED FOR BID	01/19/2021
A2-911	SECOND FLOOR FURNITURE PLAN	3	ISSUED FOR BID	01/19/2021
A2-912	THIRD FLOOR FURNITURE PLAN	3	ISSUED FOR BID	01/19/2021
A2-920	FURNITURE FLOOR PLAN - THIRD FLOOR LEARNING COMMUNITY & HS ENTRANCE	3	ISSUED FOR BID	01/19/2021
A2-921	FURNITURE FLOOR PLAN - MS iLAB	3	ISSUED FOR BID	01/19/2021
A2-922	FURNITURE DETAIL - MS iLAB - TALL CABINET STORAGE WITH MOBILE CARTS A	3	ISSUED FOR BID	01/19/2021
A2-923	FURNITURE DETAIL - MS iLAB - TALL CABINET STORAGE	3	ISSUED FOR BID	01/19/2021
A2-924	FURNITURE DETAIL - MS iLAB - SINK BASE	3	ISSUED FOR BID	01/19/2021
A2-925	FURNITURE DETAIL - THIRD FLOOR WALL - STORAGE CUBBIES	3	ISSUED FOR BID	01/19/2021
A2-926	FURNITURE DETAIL - THIRD FLOOR - OPEN BOOTH SEATING	3	ISSUED FOR BID	01/19/2021
A2-927	FURNITURE DETAIL - THIRD FLOOR STORAGE CABINET	3	ISSUED FOR BID	01/19/2021
A2-928	FURNITURE DETAIL- CAVE SPACE	3	ISSUED FOR BID	01/19/2021
S2-000	GENERAL NOTES	3	ISSUED FOR BID	01/19/2021
S2-001	SCOPE OF WORK	3	ISSUED FOR BID	01/19/2021
S2-002	SCOPE OF WORK	3	ISSUED FOR BID	01/19/2021
S2-003	SCOPE OF WORK	3	ISSUED FOR BID	01/19/2021
S2-100	OVERALL FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
S2-101	OVERALL SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
S2-102	OVERALL THIRD FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
S2-103	OVERALL ROOF PLAN	3	ISSUED FOR BID	01/19/2021
S2-110	MIDDLE SCHOOL ENTRANCE PLANS	3	ISSUED FOR BID	01/19/2021
S2-120	ELEVATOR FRAMING PLANS	3	ISSUED FOR BID	01/19/2021
S2-130	HIGH SCHOOL ENTRANCE PLANS	3	ISSUED FOR BID	01/19/2021
S2-140	ROOF FRAMING REINFORCEMENT PLANS	3	ISSUED FOR BID	01/19/2021
S2-141	ROOF FRAMING REINFORCEMENT PLAN	3	ISSUED FOR BID	01/19/2021
S2-200	TYPICAL FOUNDATION DETAILS	3	ISSUED FOR BID	01/19/2021
S2-300	TYPICAL MASONRY DETAILS	3	ISSUED FOR BID	01/19/2021
S2-301	MASONRY DETAILS	3	ISSUED FOR BID	01/19/2021
S2-400	TYPICAL STEEL DETAILS	3	ISSUED FOR BID	01/19/2021
S2-401	TYPICAL STEEL DETAILS	3	ISSUED FOR BID	01/19/2021
H2-101	HIGH SCHOOL & MIDDLE SCHOOL PART BASEMENT PART PLANS, LEGEND AND NOTES	3	ISSUED FOR BID	01/19/2021
H2-102	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-103	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-104	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-105	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-106	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-107	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-108	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-109	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-110	HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-201	HIGH SCHOOL & MIDDLE SCHOOL PART BASEMENT PLANS AND BOILER PIPING DIAGRAM	3	ISSUED FOR BID	01/19/2021
H2-202	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-203	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-204	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-205	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-206	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-207	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-208	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR AND ATTIC PLAN	3	ISSUED FOR BID	01/19/2021
H2-209	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-210	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-211	HIGH SCHOOL & MIDDLE SCHOOL THIRD FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
H2-212	HIGH SCHOOL & MIDDLE SCHOL PART ROOF PLAN	3	ISSUED FOR BID	01/19/2021
H2-301	HIGH SCHOOL & MIDDLE SCHOOL SCHEDULE	3	ISSUED FOR BID	01/19/2021
H2-302	HIGH SCHOOL & MIDDLE SCHOOL SCHEDULE	3	ISSUED FOR BID	01/19/2021
H2-401	HIGH SCHOOL & MIDDLE SCHOOL DETAILS	3	ISSUED FOR BID	01/19/2021
H2-402	HIGH SCHOOL & MIDDLE SCHOOL DETAILS	3	ISSUED FOR BID	01/19/2021
H2-403	HIGH SCHOOL & MIDDLE SCHOOL DETAILS	3	ISSUED FOR BID	01/19/2021
P2-101	HIGH SCHOOL & MIDDLE SCHOOL LEGEND, SCHEDULE, NOTES, FIRST AND SECOND FLOOR PLANS	3	ISSUED FOR BID	01/19/2021
P2-201	HIGH SCHOOL & MIDDLE SCHOOL PART BASEMENT FLOOR PLAN, ROOF PLAN AND DETAILS	3	ISSUED FOR BID	01/19/2021
P2-202	HIGH SCHOOL & MIDDLE SCHOOL FIRST, SECOND & THIRD FLOOR PLANS	3	ISSUED FOR BID	01/19/2021
P2-203	HIGH SCHOOL & MIDDLE SCHOOL FIRST FLOOT PART PLAN	3	ISSUED FOR BID	01/19/2021
P2-204	HIGH SCHOOL & MIDDLE SCHOOL FIRSTAND SECOND FLOOR PLANS	3	ISSUED FOR BID	01/19/2021
E2-001	LEGENDS ABBREVIATIONS AND NOTES	3	ISSUED FOR BID	01/19/2021
E2-101	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
E2-102	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
E2-103	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
E2-104	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
E2-105	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
E2-106	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
E2-107	HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
E2-108	HIGH SCHOOL & MIDDLE SCHOOL EXTERIOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
E2-201	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN	3	ISSUED FOR BID	01/19/2021
E2-202	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN	3	ISSUED FOR BID	01/19/2021
E2-203	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN	3	ISSUED FOR BID	01/19/2021
E2-204	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN	3	ISSUED FOR BID	01/19/2021
E2-205	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR LIGHTING PLAN	3	ISSUED FOR BID	01/19/2021
E2-206	HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR LIGHTING PLAN	3	ISSUED FOR BID	01/19/2021
E2-207	HIGH SCHOOL & MIDDLE SCHOOL EXTERIOR EMERGENCY LIGHTING PLAN	3	ISSUED FOR BID	01/19/2021
E2-301	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER & FIRE ALARM PLAN	3	ISSUED FOR BID	01/19/2021
E2-302	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER & FIRE ALARM PLAN	3	ISSUED FOR BID	01/19/2021
E2-303	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER & FIRE ALARM PLAN	3	ISSUED FOR BID	01/19/2021
E2-304	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER & FIRE ALARM PLAN	3	ISSUED FOR BID	01/19/2021
E2-305	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR POWER & FIRE ALARM PLAN	3	ISSUED FOR BID	01/19/2021
E2-306	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR POWER & FIRE ALARM PLAN	3	ISSUED FOR BID	01/19/2021
E2-307	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR POWER & FIRE ALARM PLAN	3	ISSUED FOR BID	01/19/2021
E2-308	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR POWER & FIRE ALARM PLAN	3	ISSUED FOR BID	01/19/2021
E2-309	HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR & BASEMENT POWER AND FA PLAN	3	ISSUED FOR BID	01/19/2021
E2-310	HIGH SCHOOL & MIDDLE SCHOOL ROOF POWER AND FA PLAN	3	ISSUED FOR BID	01/19/2021
E2-311	HIGH SCHOOL & MIDDLE SCHOOL ELECTRICAL CONDUIT ROUTING	3	ISSUED FOR BID	01/19/2021
E2-312	HIGH SCHOOL & MIDDLE SCHOOL EXTERIOR PLAN	3	ISSUED FOR BID	01/19/2021
E2-501	HIGH SCHOOL & MIDDLE SCHOOL PART ELECTRICAL RISER	3	ISSUED FOR BID	01/19/2021
E2-502	HIGH SCHOOL & MIDDLE SCHOOL FIRE ALARM AND PA RISER	3	ISSUED FOR BID	01/19/2021
E2-601	HIGH SCHOOL & MIDDLE SCHOOL ELECTRICAL SCHEDULES	3	ISSUED FOR BID	01/19/2021
E2-602	HIGH SCHOOL & MIDDLE SCHOOL ELECTRICAL SCHEDULES	3	ISSUED FOR BID	01/19/2021
E2-701	ELECTRICAL DETAILS	3	ISSUED FOR BID	01/19/2021
E2-702	ELECTRICAL DETAILS	3	ISSUED FOR BID	01/19/2021
AVE2-001	AUDIOVISUAL KEYS, NOTES AND SCHEDULES	3	ISSUED FOR BID	01/19/2021
AVE2-101	AUDIOVISUAL PLAN - THIRD FLOOR	3	ISSUED FOR BID	01/19/2021
AVE2-102	AUDIOVISUAL PLAN - iLAB	3	ISSUED FOR BID	01/19/2021
AVE2-111	AUDIOVISUAL RCP - THIRD FLOOR	3	ISSUED FOR BID	01/19/2021
AVE2-112	AUDIOVISUAL RCP - iLAB	3	ISSUED FOR BID	01/19/2021
AVE2-201	HEARING LOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - iLAB	3	ISSUED FOR BID	01/19/2021
AVE2-202	HEARING LOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - THIRD FLOOR	3	ISSUED FOR BID	01/19/2021

LIST OF DRAWINGS TO BE PRINTED IN COLOR

T2-001 - TITLE SHEET
X2-101 - FIRST FLOOR CODE COMPLIANCE PLAN
X2-102 - SECOND FLOOR CODE COMPLIANCE PLAN
X2-103 - THIRD FLOOR CODE COMPLIANCE PLAN
X2-120 - HIGH SCHOOL ENTRY and MS iLAB CODE COMPLIANCE PLAN
X2-121 - THIRD FLOOR LEARNING COMMUNITY CODE COMPLIANCE PLAN
D2-101 - FIRST FLOOR DEMOLITION PLAN
D2-102 - SECOND FLOOR DEMOLITION PLAN
D2-103 - THIRD FLOOR DEMOLITION PLAN
D2-201 - EXTERIOR DEMOLITION ELEVATIONS
D2-202 - EXTERIOR DEMOLITION ELEVATIONS
D2-203 - EXTERIOR DEMOLITION ELEVATIONS
A2-350 - ELEVATOR DEMOLITION AND FLOOR PLANS
A2-501 - MIDDLE SCHOOL ENTRANCE DEMOLITION PLAN, FLOOR PLAN, REFLECTED CEILING PLAN AND FLOOR FINISH PLAN
A2-503 - NEW STAFF OFFICES DEMOLITION PLAN AND FLOOR PLAN
A2-505 - MIDDLE SCHOOL OFFICE SUITE DEMOLITION PLAN AND REFLECTED CEILING PLAN
A2-506 - ENLARGED FIRST FLOOR CLASSROOM DEMOLITION PLAN AND FLOOR PLAN
A2-507 - ENLARGED SECOND FLOOR CLASSROOM DEMOLITION PLAN AND FLOOR PLAN
A2-511 - HIGH SCHOOL ENTRANCE PLANS
A2-515 - THIRD FLOOR LEARNING COMMUNITY DEMO DRAWINGS
A2-517 - THIRD FLOOR POWER AND TECHNOLOGY PLAN
A2-522 - MS i-LAB DEMO PLAN AND FLOOR PLAN
A2-523 - MS i-LAB POWER AND TECHNOLOGY PLAN
A2-531 - ENLARGED TOILET PLANS, ELEVATIONS & FINISHES
A2-534 - ENLARGED TOILET PLANS, ELEVATIONS & FINISHES
A2-536 - ENLARGED TOILET PLANS, ELEVATIONS & FINISHES
A2-700 - FINISH SCHEDULE & LEGEND
AVE2-202 - HEARING LOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - iLAB
AVE2-212 - HEARINGLOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - THIRD FLOOR

BID PROJECTS

PROJECT 1: ALL WORK NOT INCLUDED I



1 **EXISTING CONDITIONS AND DEMOLITION PLAN**
SCALE: BAR SCALE

0' 10' 20' 40'
SCALE: 1" = 20'-0"

NOTES:

1. THE CONTRACTOR SHALL CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION AND COORDINATE WITH OTHERS AS REQUIRED, INCLUDING DAILY OPERATIONS OF SCHOOL CAMPUS.
2. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE FOR INFORMATION ONLY, AND ALL UTILITIES MAY NOT BE SHOWN. THE CONTRACTOR SHALL CONTACT U.F.P.O. (1-800-962-7962) AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY HAVING JURISDICTION TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO THE POSSIBLE EXISTENCE OF UNRECORDED UTILITIES. ANY COSTS INCURRED BY THE CONTRACTOR DUE TO FAILURE TO CONTACT THE PROPER AUTHORITIES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION ON SITE. ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS SHALL BE IMMEDIATELY COMMUNICATED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING GRADES IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY WORK. FIELD VERIFICATIONS SHALL BE PERFORMED THROUGHOUT ALL AREAS OF NEW CONSTRUCTION. THIS FIELD VERIFICATION IS IMPERATIVE TO ENSURE THAT THERE ARE NO DISCREPANCIES BETWEEN THE SITE SURVEY AND WHAT HAS BEEN VERIFIED. IF DISCREPANCIES DO EXIST, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT/OWNER'S REPRESENTATIVE, IMMEDIATELY, AND PRIOR TO ANY CONSTRUCTION, SO NECESSARY ADJUSTMENTS AND/OR MODIFICATIONS CAN BE MADE TO ACCOMMODATE THESE DISCREPANCIES. ANY FAILURE TO VERIFY THE GRADES PRIOR TO CONSTRUCTION SHALL BE AT THE RISK AND COST OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL PROVIDE STAKED LAYOUT OF PROPOSED IMPROVEMENTS FOR THE ARCHITECT/OWNER'S REPRESENTATIVE REVIEW AND APPROVAL BEFORE COMMENCING WITH ANY GROUND DISTURBANCE.
5. THE CONTRACTOR SHALL VERIFY PROPOSED GRADES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS FOR THE WORK FROM ANY UTILITY COMPANIES OR OTHER GOVERNING BODIES HAVING JURISDICTION OVER THE WORK OUTLINED IN THESE DRAWINGS.
7. THE CONTRACTOR SHALL ESTABLISH PERMANENT SECONDARY BENCHMARKS, IF NEEDED, PRIOR TO THE START OF CONSTRUCTION. ALL SECONDARY BENCHMARKS SHALL BE SO LOCATED THAT THEY WILL NOT BE DISTURBED BY CONSTRUCTION.
8. THE CONTRACTOR SHALL MAINTAIN ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT TRACKING OR MOVEMENT OF SEDIMENT OR DEBRIS ONTO PUBLIC ROADS.
9. THE CONTRACTOR SHALL PROVIDE DUST AND EROSION/SEDIMENT CONTROL AS PER SPECIFICATIONS AND/OR AS APPROVED BY THE ARCHITECT/OWNER'S REPRESENTATIVE.
10. THE CONTRACTOR SHALL INSTALL SILT FENCE(S) PRIOR TO ANY SOIL DISTURBANCE. THE CONTRACTOR SHALL INSTALL AND REGULARLY MAINTAIN, AS REQUIRED, ANY AND ALL SILTATION CONTROL MEASURES AND MONITOR THE CONTROL DEVICES AT LEAST ONCE A WEEK TO ENSURE THEIR EFFECTIVENESS.
11. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH AND LENGTH AS APPLICABLE. REMOVE TREE ROOTS TO 24" DEPTH BELOW FINISHED GRADE (MINIMUM). ITEMS NOT SPECIFICALLY IDENTIFIED THAT INTERFERE WITH NEW CONSTRUCTION MUST ALSO BE REMOVED. ALL REFUSE, DEBRIS AND MISCELLANEOUS ITEMS TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF-SITE BY THE CONTRACTOR.
12. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL AREAS DISTURBED AND/OR DAMAGED FROM CONSTRUCTION ACTIVITIES INCLUDING, BUT NOT LIMITED TO, LAWNS, WALKS, PAVEMENTS, ETC.. IT IS EXPECTED THAT THE CONTRACTOR SHALL MAKE PHOTO LOGS OF ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION FOR HIS/HER RECORDS.
14. FIND/PROTECT EXISTING UNDERGROUND UTILITIES THAT CROSS THROUGH PROJECT AREA. NOTIFY OWNER AND ENGINEER IMMEDIATELY UPON FINDING ANY DISCREPANCIES WITH SURVEY.
15. SAWCUT/DEMOLISH EXISTING PAVEMENTS AS SHOWN. DISPOSE OF MATERIALS OFF-SITE IN ACCORDANCE WITH ALL REGULATIONS.
16. DEMOLISH AND REMOVE (OR ABANDON IN-PLACE IF ACCEPTABLE TO ENGINEER) EXISTING UTILITIES (ABOVE AND BELOW GRADE) IN ACCORDANCE WITH ALL REGULATIONS.
17. DEMOLISH ALL EXISTING SITE IMPROVEMENTS AS REQUIRED TO ALLOW PROJECT CONSTRUCTION. DISPOSE OF MATERIALS OFF-SITE IN ACCORDANCE WITH ALL REGULATIONS.
18. PROVIDE ALL REQUIRED EROSION CONTROL MEASURES / PROTECT ALL STORM INLETS FROM SEDIMENT DEPOSITION DURING CONSTRUCTION, AS SHOWN ON GRADING & EROSION & SEDIMENT CONTROL PLAN.
19. CONTRACTOR SHALL COORDINATE WITH OWNER AND CONSTRUCTION MANAGER ON LIMITS OF WORK AND CONTRACTOR ACCESS AND USE AREAS, SUCH AS MATERIAL STORAGE, TEMPORARY PARKING, ETC. CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL SITE USERS FROM CONSTRUCTION OPERATIONS / HAZARDS. PROVIDE SAFE AND EMERGENCY ACCESS TO THE PROJECT SITE AT ALL TIMES.

Revision Schedule

No.	Description	Date
	ISSUED FOR BID	2021/01/19
1	MS COURTYARD STEPS / BID ADDENDUM #1	2021/01/28

Geddis Architects
Architecture. Planning. Interiors
71 Old Post Road
P.O. Box 1020
Southport, CT 06890
(203) 256-8700

Fielding International
Transforming Education by Design
259 Water Street Suite 1L
Warren , RI 02885 USA
+1 401-289-2789

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Pleasantville, NY 10570
914-769-3200

Structural Engineer
ODEH ENGINEERS
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North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
1 Winners Circle, Suite 130
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MEP Engineer
BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
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Pleasantville, NY 10570
914-328-6060

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

AV Consultant
CAVANAUGH TOCCI
327 F Boston Post Road
Sudbury, MA 01776-3027
978-443-7871

SED #: 6618-0001-0005-032

PROJECT
Rye City School District
555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL ENTRANCE

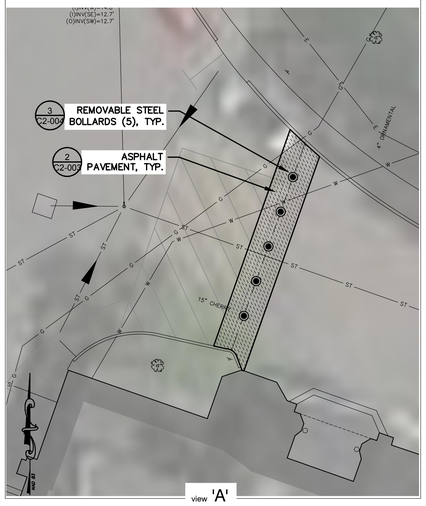
EXISTING CONDITIONS & DEMOLITION SITEPLAN

PROJECT 1

SEAL & SIGNATURE

DATE:	11/07/19
PROJECT No:	9200
DRAWING BY:	KSK
CHK BY:	JFB
DWG No:	C2-001

1 FILL VOIDS BELOW PAVEMENT SURFACE FROM REMOVED (EXISTING) BOLLARDS WITH STRUCTURAL FILL AND COMPACT TO 95%.

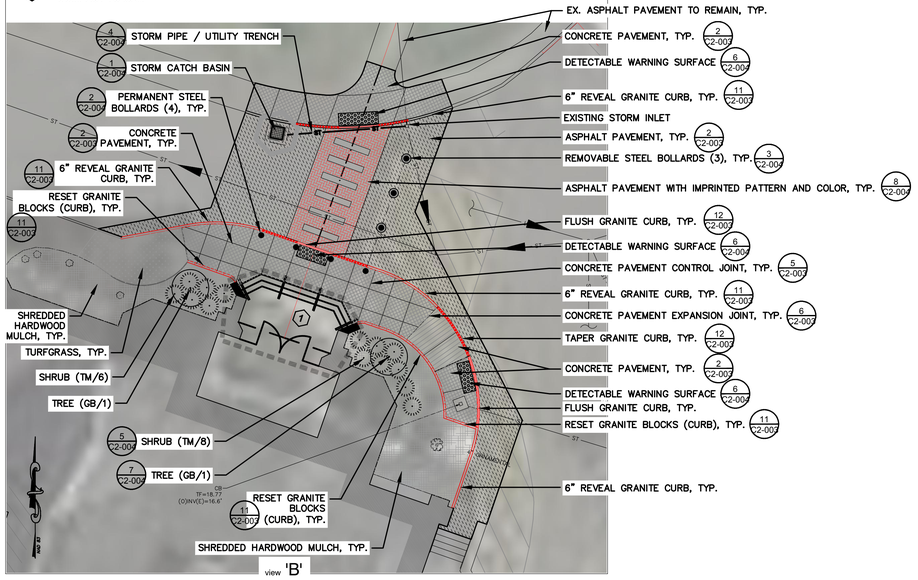


PLANTING SCHEDULE

KEY	BOTANIC NAME	COMMON NAME	QUANT.	SIZE	REMARKS
TREES					
GB	GINKGO BILOBA 'FASTIGIATA BLAGON' GOLDSPIRE	GOLDSPIRE COLUMNAR GINKGO	2	6' – 7' TALL	B&B, FULL BRANCHING, MATCHED
SHRUBS					
TM	TAXUS X MEDIA DENSIFORMIS	DENSE SPREADING YEW	14	3 GAL.	CONTAINER

1 SEE ARCHITECTURAL PLANS FOR LAYOUT OF BUILDING MODIFICATIONS AND ALL WORK ASSOCIATED WITH THE PROPOSED STEPS, STONEWORK, HANDRAILS, FOUNDATIONS, ETC...

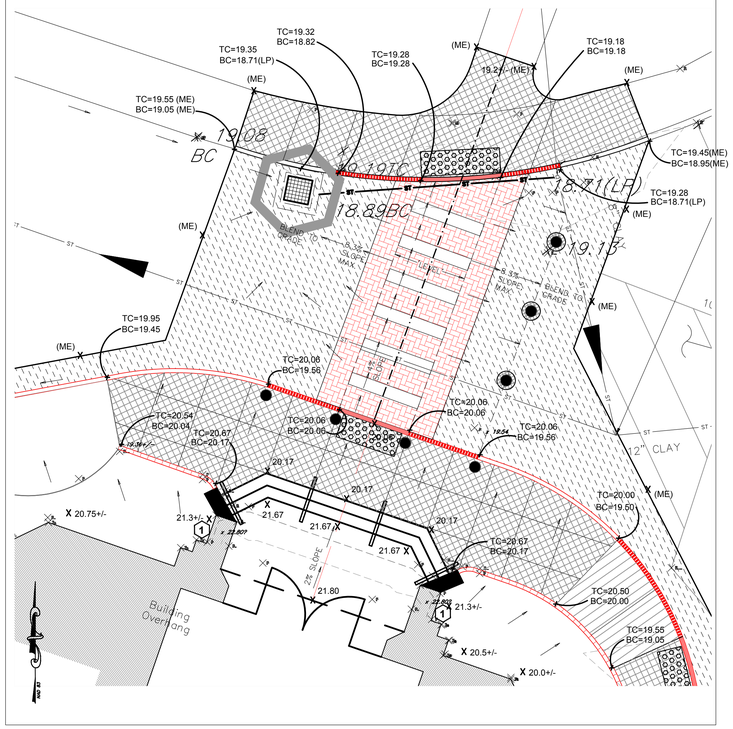
2 FILL VOIDS BELOW PAVEMENT SURFACE FROM REMOVED (EXISTING) BOLLARDS WITH STRUCTURAL FILL AND COMPACT TO 95%.



1 SITE PLAN - MATERIALS AND PLANTING
SCALE: BAR SCALE

0' 5' 10' 20'
SCALE: 1" = 10'-0"

1 RAISE FINISHED GRADES WITH TOPSOIL TO ENSURE THERE IS NO GREATER THAN 18" REVEAL FROM FINISHED GRADE TO TOP OF STONE. BLEND NEW LANDSCAPE BED/LAWN INTO EXISTING SMOOTHLY.

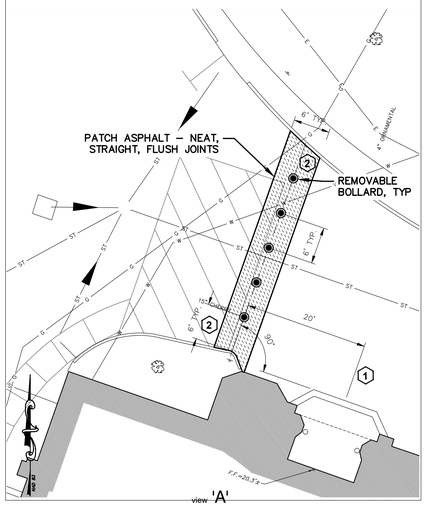


2 SITE PLAN - GRADING ENLARGEMENT AT HIGH SCHOOL ENTRANCE
SCALE: BAR SCALE

0' 2.5' 5' 10'
SCALE: 1" = 5'-0"

1 LAYOUT LINE 1 - CENTERLINE OF EXISTING DOORS/STEPS EXTENDED OUTWARD AT 90 DEGREES FROM THE FRONT BUILDING FACADE.

2 BOLLARD PLACEMENT NEAR EXISTING CURBS SHOULD PRECLUDE VEHICULAR ACCESS. SPACE ACCORDINGLY.



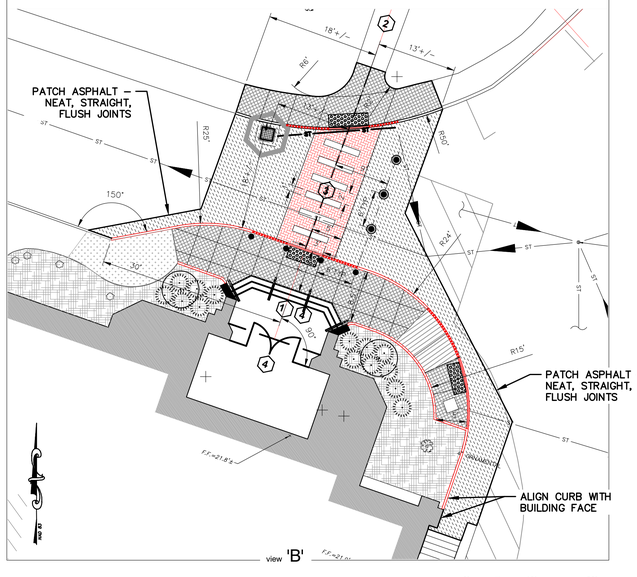
3 SITE PLAN - LAYOUT
SCALE: BAR SCALE

1 LAYOUT LINE 1 - CENTERLINE OF PROPOSED DOORS EXTENDED OUTWARD AT 90 DEGREES FROM THE FRONT BUILDING FACADE - TO THE PROPOSED CURB FACE.

2 LAYOUT LINE 2 - CENTERLINE OF EXISTING ASPHALT PATH FROM PARSONS STREET TOWARD BUILDING ENTRANCE.

3 LAYOUT LINE 3 - CENTERLINE OF CROSSWALK (CONNECTS CENTERLINE 1 AND 2 LISTED ABOVE) AND IS NOT PERPENDICULAR TO PROPOSED CURBFACE. PROPOSED REMOVABLE BOLLARDS ARE PARALLEL TO THIS CENTERLINE.

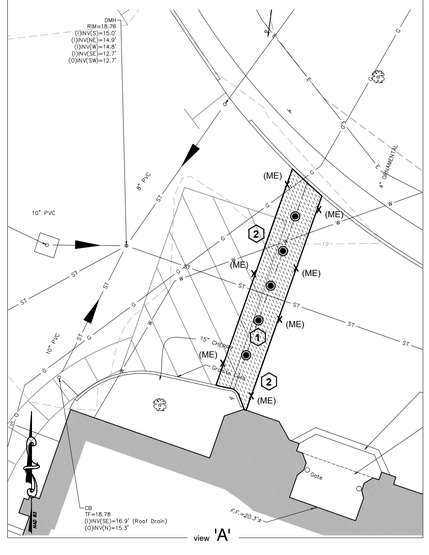
4 SEE ARCHITECTURAL PLANS FOR LAYOUT OF BUILDING MODIFICATIONS AND ALL WORK ASSOCIATED WITH THE PROPOSED STEPS, STONEWORK, HANDRAILS, ETC...



0' 5' 10' 20'
SCALE: 1" = 10'-0"

1 ENSURE THE TOP OF THE CONCRETE FOOTING FOR EACH REMOVABLE BOLLARD IS FLUSH WITH THE PROPOSED ROADWAY GRADES TO PROVIDE A UNIFORMLY SMOOTH SURFACE FOR MAINTENANCE (SNOW PLOWING, ETC). ENSURE BOLLARD GRADE IS NOT IN A LOW POINT, PROVIDE SLOPE AWAY TOWARD STORM INLETS OR DRAINAGE PATTERNS.

2 ENSURE SMOOTH TRANSITIONS BETWEEN EXISTING AND PROPOSED PAVEMENT GRADES - "MATCH EXISTING" (ME). NO ABRUPT CHANGES - GRADUAL, SMOOTH TRANSITIONS, AS REQUIRED.

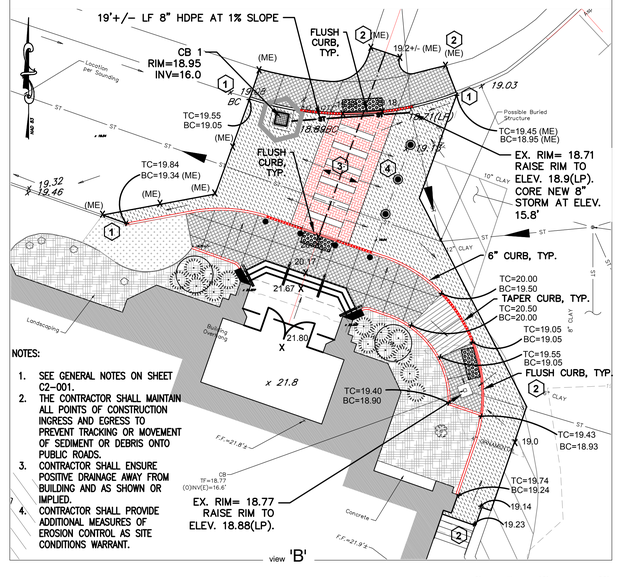


1 TRANSITION FROM PROPOSED GRANITE CURB TO EXISTING CONDITION IN LINE AND GRADE, IN A SMOOTH TRANSITION, TYPICAL.

2 SMOOTH TRANSITION TO MEET EXISTING GRADE (ME). NO ABRUPT CHANGES - GRADUAL, SMOOTH TRANSITIONS, AS REQUIRED (MEETING ADA REQUIREMENTS WHEN ALONG AN 'ACCESSIBLE ROUTE'.

3 THE CROSSWALK AREA IS PROPOSED TO BE RAISED ABOVE EXISTING GRADE (UP TO 6"+/-) AND MATCH THE WALKWAY ON EITHER END, FLUSH WITH PROPOSED GRADES - PROVIDING AN ADA COMPLIANT ACCESIBLE ROUTE FOR PEDESTRIANS. ALONG ITS CENTERLINE, IT SLOPES AWAY FROM THE SCHOOL BUILDING AT A UNIFORM SLOPE AND IS 'LEVEL' IN CROSS-SLOPE FOR A MINIMUM OF 6' WIDTH (CENTERED ON CENTERLINE). AT THE EDGE OF THIS LEVEL PATH, THE GRADES TRANSITION DOWN TO THE PROPOSED ROAD SURFACE AT 1:12, MAX., UNTIL THEY MATCH THE EXISTING GRADES OF THE UNDISTURBED ROADWAY. (APPROXIMATE LIMITS SHOWN)

4 ENSURE THE TOP OF THE CONCRETE FOOTING FOR EACH REMOVABLE BOLLARD IS FLUSH WITH THE PROPOSED ROADWAY GRADES TO PROVIDE A UNIFORMLY SMOOTH SURFACE FOR MAINTENANCE (SNOW PLOWING, ETC).



NOTES:
1. SEE GENERAL NOTES ON SHEET C2-001.
2. THE CONTRACTOR SHALL MAINTAIN ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT TRACKING OR MOVEMENT OF SEDIMENT OR DEBRIS ONTO PUBLIC ROADS.
3. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND AS SHOWN OR IMPLIED.
4. CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES OF EROSION CONTROL AS SITE CONDITIONS WARRANT.

4 SITE PLAN - GRADING & EROSION CONTROL & UTILITY PLAN
SCALE: BAR SCALE

0' 5' 10' 20'
SCALE: 1" = 10'-0"

Revision Schedule

No.	Description	Date
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1	MS COURTYARD STEPS / BID ADDENDUM #1	2021/01/28

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SED #: 6618-0001-0005-032

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HIGH SCHOOL ENTRANCE

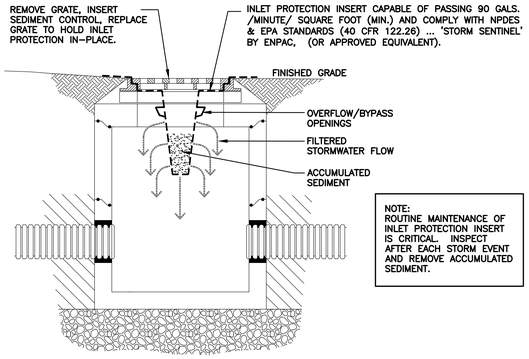
SITEPLAN

PROJECT 1

SEAL & SIGNATURE

STATE OF NEW YORK · ROBERT TODD BARILE · 092888 · PROFESSIONAL ENGINEER

DATE:	11/07/19
PROJECT No:	9200
DRAWING BY:	KSK
CHK BY:	JFB
DWG No:	C2-002



1 STORM INLET PROTECTION DETAIL
SCALE: N.T.S.

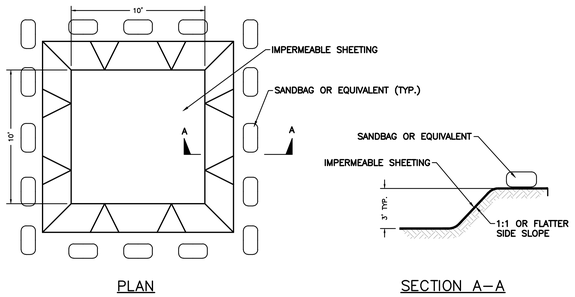
PAVING SCHEDULE

KEY	TYPE	SECTION: N.T.S.
a	CONCRETE	STIFF BROOM FINISH W2.9XW2.9 6X6 W.W.M. MIN. 2" COVER 5" CONCRETE 18" NYSDOT 304 TYPE 2 SUBBASE GEOTEXTILE MIRAFI 500X OR EQUIVALENT COMPACTED SUBGRADE
b	LIGHT DUTY ASPHALTIC CONCRETE (SIDEWALK)	1-1/2" 2-1/2" NYSDOT ITEM 402.127303 TOPCOURSE TACK COAT NYSDOT ITEM 402.257903 DENSE BINDER 10" NYSDOT ITEM 304.12 SUBBASE GEOTEXTILE MIRAFI 500X OR EQUIVALENT COMPACTED SUBGRADE MIN. CBR=10
c	HEAVY DUTY ASPHALTIC CONCRETE (ROADWAY)	2" 3" NYSDOT ITEM 402.127303 TOPCOURSE TACK COAT NYSDOT ITEM 402.257903 DENSE BINDER 14" NYSDOT ITEM 304.12 SUBBASE GEOTEXTILE MIRAFI 500X OR EQUIVALENT COMPACTED SUBGRADE MIN. CBR=10

NOTES:

1. EXCAVATE TO INDICATED ELEVATIONS AND DIMENSIONS WITHIN A TOLERANCE OF PLUS OR MINUS 1 INCH. EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORM WORK, FOR INSTALLING SERVICES AND OTHER CONSTRUCTION, AND FOR INSPECTIONS.
2. EXCAVATE TRENCHES TO INDICATED GRADIENTS, LINES, DEPTHS, AND ELEVATIONS TO ALLOW INSTALLATION OF PIPE TO THE DEPTHS INDICATED.
3. PROOF ROLL SUBGRADE WITH A 10-TON VIBRATORY ROLLER TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. SOFT POCKETS SHOULD BE EXCAVATED AND BACKFILLED WITH CONTROLLED FILL MATERIAL. DO NOT PROOF ROLL WET OR SATURATED SUBGRADES. CONTRACTOR SHALL RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES, AS DIRECTED BY THE LANDSCAPE ARCHITECT AT NO COST TO THE OWNER.
4. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR ESTABLISHING THE GRADES INDICATED WITHIN THE TOLERANCE INDICATED FOR THE ESTABLISHMENT OF SUBGRADE.
5. UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL LAYER BEFORE COMPACTION TO WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE. REMOVE AND REPLACE, OR SCARIFY AND AIR-DRY, OTHERWISE SATISFACTORY SOIL MATERIAL THAT EXCEEDS OPTIMUM MOISTURE CONTENT BY 2 PERCENT AND IS TOO WET TO COMPACT TO SPECIFIED DRY UNIT WEIGHT.
6. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 12 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TEMPERS. PLACE BACKFILL AND FILL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.
7. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D-1557. UNDER STRUCTURES, BUILDING SLABS, STEPS, AND PAVEMENTS, SCARIFY AND RECOMPACT TOP 12 INCHES OF EXISTING SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT. UNDER WALKWAYS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT. UNDER LAWN OR UNPAVED AREAS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LATER OF BACKFILL OR FILL MATERIAL AT A MINIMUM OF 85 PERCENT AND MAXIMUM OF 90 PERCENT.
8. GENERAL GRADING: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES AND ELEVATIONS INDICATED. PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES. CUT OUT SOFT SPOTS, FILL LOW SPOTS, AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED SURFACE TOLERANCES.
9. DRAINAGE: PLACE A LAYER OF DRAINAGE FABRIC AROUND PERIMETER OF DRAINAGE TRENCH AS INDICATED. PLACE A 6-INCH COURSE OF FILTER MATERIAL ON DRAINAGE FABRIC TO SUPPORT DRAINAGE PIPE. ENCASE DRAINAGE PIPE IN A MINIMUM OF 12 INCHES OF FILTER MATERIAL AND WRAP IN DRAINAGE FABRIC, OVERLAPPING SIDES AND ENDS AT LEAST 6 INCHES. (PERIMETER DRAIN SHALL BE AS INDICATED ON PLANS.) COMPACT EACH COURSE OF FILTER MATERIAL TO 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTMD 698.
10. DRAINAGE BACKFILL: PLACE AND COMPACT FILTER MATERIAL OVER SUBSURFACE DRAIN, TO WIDTH INDICATED, TO WITHIN 12 INCHES OF FINAL SUBGRADE. OVERLAY DRAINAGE BACKFILL WITH ONE LAYER OF DRAINAGE FABRIC, OVERLAPPING SIDES AND ENDS AT LEAST 6 INCHES. COMPACT EACH COURSE OF FILTER MATERIAL TO 95 PERCENT OF MAXIMUM DRY DENSITY ACCORDING TO ASTM 698. PLACE AND COMPACT IMPERVIOUS FILL MATERIAL OVER DRAINAGE BACKFILL TO FINAL SUBGRADE.
11. NYSDOT SPECIFICATION 610.10000015 LANDSCAPE DEVELOPMENT SHALL BE USED FOR CONSTRUCTION WITHIN STATE HIGHWAY BOUNDARY AND WITHIN 20' OF DRIVEWAY OPENINGS.

2 PAVING SCHEDULE
SCALE: N.T.S.



3 CONCRETE WASH OUT DETAIL
SCALE: N.T.S.

GENERAL MAINTENANCE PLAN:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK, IN ACCORDANCE WITH THE SWPPP AND NYSDEC SPDES GENERAL PERMIT NO. GP-0-15-002. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM BEHIND STRAW BALE DIKES AND BEHIND SILT FENCES WHEN IT BECOMES 6" DEEP AT THE DIKE/FENCE OR WHEN ACCUMULATIONS HAVE ADVERSELY AFFECTED IT'S FUNCTION. STRAW BALE DIKES AND SITE FENCES WILL BE REPAIRED BY REMOVING SILT AND SEDIMENTS AND THEN TAMPING LOOSE SOIL ALONG BASE, REPLACING DAMAGED OR WEAKENED POSTS AND STAKES, OR AS NECESSARY TO MAINTAIN A BARRIER.
3. SEDIMENT WILL BE REMOVED AND FILTER DEVICES CLEANED OR REPLACED AT CATCH BASINS WHEN THE SEDIMENT POOL NO LONGER DRAINS FREELY. SEDIMENT ACCUMULATIONS WITHIN DRAINAGE STRUCTURES AND PIPING SHALL BE CLEANED OUT AT THE PROJECT COMPLETION AND AS ORDERED BY ENGINEER WHEN DETERMINED THAT PRE-COMPLETION INSTALLATIONS NO LONGER FUNCTION PROPERLY DUE TO SEDIMENT OR DEBRIS. EVENTUAL SYSTEM CLEANING IS NOT AN EXCUSE TO NOT IMPLEMENT APPROPRIATE CONTROLS UPSTREAM. THE ENGINEER SHALL BE THE FINAL JUDGE REGARDING WHETHER THE PIPING SYSTEM REQUIRES CLEANING. THE CONTRACTOR CAN MINIMIZE THE NECESSITY OF EXTENSIVE SILT AND SEDIMENT ACCUMULATION REMOVALS BY EFFECTIVE IMPLEMENTATION OF THE SWPPP.
4. ALL DISTURBED AREAS WILL BE FERTILIZED, SEEDED AND MULCHED ACCORDING TO LANDSCAPE RESTORATION SPECIFICATIONS TO MAINTAIN VIGOROUS, DENSE VEGETATION. REPAIR ANY ERODED SLOPES, REAPPLY TOPSOIL, RESEED AND STABILIZE REPAIR AREA AS REQUIRED FOR PERMANENT OR TEMPORARY MEANS. REPAIR SOIL AREAS DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
5. IMMEDIATELY REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT, MAINTENANCE OR OTHER ACTIVITY TO ANY EROSION CONTROL MEASURE, OR BEST MANAGEMENT PRACTICE OR DEVICE.
6. THE PRIME CONTRACTOR(S) ARE RESPONSIBLE FOR THE PERFORMANCE AND COMPLIANCE OF THEIR SUB-CONTRACTOR'S ACTIVITIES RELATING TO THE SWPPP. THEY SHALL MAKE FREQUENT INSPECTIONS OF THEIR WORK AND COORDINATE APPROPRIATE INSTALLATION AND MAINTENANCE OF EROSION CONTROL AND WATER QUALITY DEVICES.
7. EMPLOY POLLUTION PREVENTION MEASURES TO CONTROL LITTER, CONSTRUCTION CHEMICALS, SEDIMENT AND CONSTRUCTION DEBRIS INCLUDING, BUT NOT LIMITED, TO THE FOLLOWING: SALVAGE AND REUSE OF MATERIALS, MINIMIZING PACKAGING WASTE, RECYCLING, PROPER DISPOSAL AT FREQUENT INTERVALS IN ACCORDANCE WITH PREVAILING LAWS, ONSITE INSTRUCTION REGARDING APPROPRIATE SEPARATION/HANDLING/RECYCLING, PERIODIC DEBRIS REMOVAL AT DRAINAGE STRUCTURES (GRATES AND SUMPS)/SEDIMENT TRAPS/FOREBAY AND OTHER BMP'S, PROPER MAINTENANCE OF SEDIMENT/EROSION CONTROL SYSTEMS, ROUTINE AND EVENT RELATED INSPECTIONS OF DRAINAGE AND BMP SYSTEMS PER PERMIT REQUIREMENTS, PROVIDE APPROPRIATE SANITARY FACILITIES FOR ONSITE PERSONNEL, PICK UP TRASH AND DEBRIS FREQUENTLY AND USE WATER MIST, CALCIUM CHLORIDE OR OTHER LEGAL MEANS TO LIMIT THE SPREAD OF DUST AND SOIL PARTICLES.

7 MAINTENANCE PLAN - EROSION & SEDIMENT CONTROL
SCALE: N.T.S.

PROTECTION OF TREES:

PROTECT EXISTING TREES WHICH ARE TO REMAIN AND WHICH MAY BE INJURED, BRUISED, DEFACED, OR OTHERWISE DAMAGED BY CONSTRUCTION OPERATIONS, UTILIZING STANDARD TREE PROTECTION CRITERIA INCLUDING:

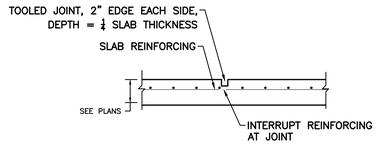
1. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM4' IN HEIGHT) AROUND INDIVIDUAL TREES DESIGNATED FOR PROTECTION. FENCING SHALL BE INSTALLED AT THE OUTWARD LIMIT OF THE TREE'S DRIPLINE OR EXTENT OF CANOPY COVER.
2. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM 4' IN HEIGHT) AROUND GROUPS OF TREES DESIGNATED FOR PROTECTION.
3. TREE AND/OR SHRUB BRANCHES IN THE WAY OF EQUIPMENT SHALL BE TRIMMED ACCORDING TO PROFESSIONAL HORTICULTURAL STANDARDS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR AND SUB-CONTRACTORS USE EQUIPMENT TO DEMOLISH BRANCHES AS WORK PROCEEDS.

REQUIRED FENCING SHALL BE INSTALLED PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION. REMOVE DISPLACED ROCKS FROM UNCLEARED AREAS. BY APPROVED EXCAVATION, REMOVE TREES WITH 30 PERCENT OR MORE OF THEIR ROOT SYSTEMS DESTROYED. REMOVAL OF TREES AND THE PROCEDURE FOR REMOVAL REQUIRES APPROVAL OF THE OWNER OR LANDSCAPE ARCHITECT. TREES DESIGNATED FOR REMOVAL SHALL BE REMOVED IN A MANNER THAT WILL NOT IMPACT ADJACENT TREES.

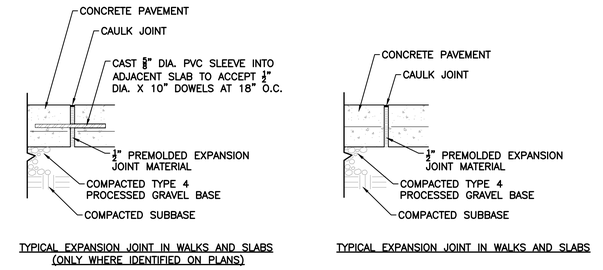
LANDSCAPE REPLACEMENT:

REMOVE TREES AND OTHER LANDSCAPE FEATURES SCARRED OR DAMAGED BY EQUIPMENT OPERATIONS, AND REPLACE WITH EQUIVALENT, UNDAMAGED TREES AND LANDSCAPE FEATURES. OBTAIN OWNER'S OR LANDSCAPE ARCHITECT'S APPROVAL BEFORE REPLACEMENT. REPLACEMENT OF TREES SHALL OCCUR ON A ONE-TO-ONE BASIS, UNLESS OTHERWISE NOTED.

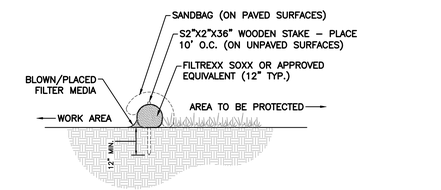
4 PROTECTION OF TREES PLAN
SCALE: N.T.S.



5 CONCRETE CONTROL JOINTS
SCALE: N.T.S.



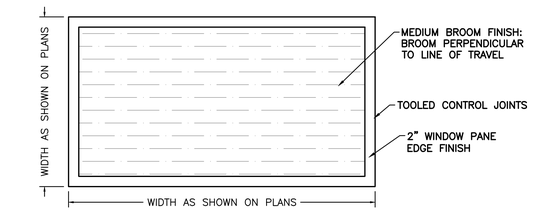
6 CONCRETE EXPANSION JOINTS
SCALE: N.T.S.



NOTES:

1. ALL MATERIALS TO MEET SPECIFICATIONS.
2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY LANDSCAPE ARCHITECT.

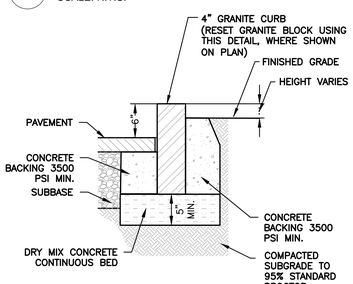
8 SILT SOCK DETAIL
SCALE: N.T.S.



NOTES:

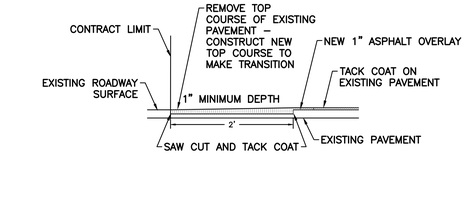
1. SEE PLANS FOR LOCATION AND TYPE OF SCORE JOINTS.
2. BROOM PERPENDICULAR TO LINE OF TRAVEL.
3. 2" WINDOW PANE EDGE FINISH.
4. DOUBLE COAT OF PENTRA-SIL 244" SEALER TO BE APPLIED TO ALL NEW CONCRETE SURFACES.

9 CONCRETE FINISH DETAIL
SCALE: N.T.S.

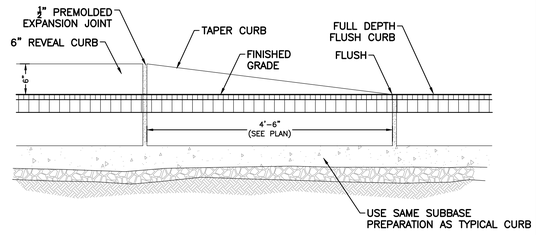


1. IN PLANTED AREAS, BACKFILL NEW GRANITE CURB WITH TOPSOIL TO LEVEL OF EXISTING GRADE.
2. IN LAWN AREAS, BACKFILL NEW GRANITE CURBS WITH TOPSOIL TO WITHIN 1" OF TOP OF CURB AND SOD. EXTEND PLACEMENT OF TOPSOIL AS DIRECTED TO FORM SMOOTH CONTOUR WITH EXISTING LAWN.
3. ALIGN NEW GRANITE CURBING WITH EXISTING CURBING AS DIRECTED.
4. INSTALL GRANITE CURB FLUSH WITH ADJACENT GRADE AS INDICATED ON PLANS. DIMENSIONS OF CONCRETE BASE & COMPACTED SUBGRADE TO REMAIN UNCHANGED.
5. CONCRETE BACKING TO EXTEND TO BOTTOM OF PAVEMENT BASE COURSE.

11 GRANITE CURB DETAIL (AND RESET GRANITE BLOCK IN LANDSCAPE)
SCALE: N.T.S.



10 ASPHALT KEYWAY DETAIL
SCALE: N.T.S.



12 TAPERED CURB DETAIL
SCALE: N.T.S.

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SED #: 6618-0001-0005-032

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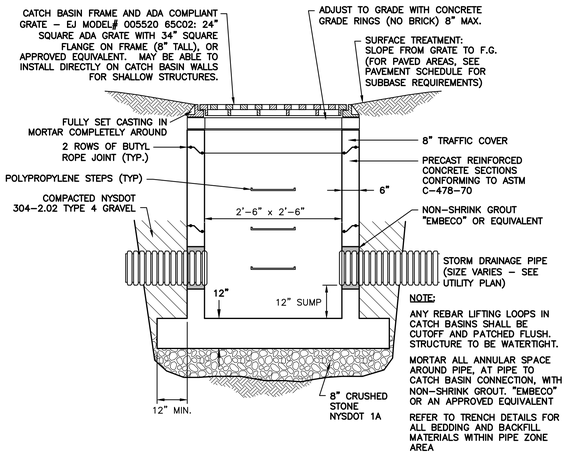
HIGH SCHOOL ENTRANCE

SITE CONSTRUCTION DETAILS

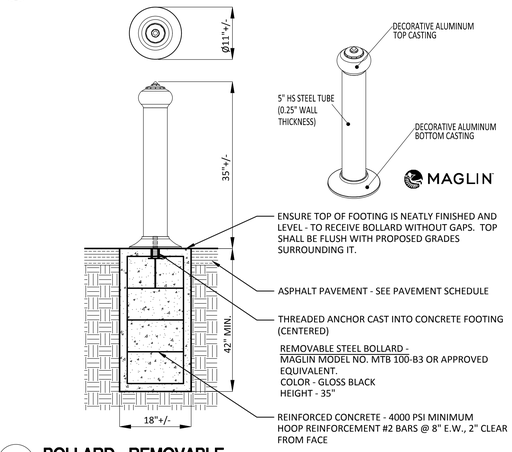
PROJECT 1

SEAL & SIGNATURE

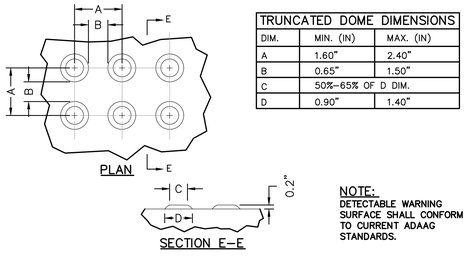
DATE:	11/07/19
PROJECT No:	9200
DRAWING BY:	KSK
CHK BY:	JFB
DWG No:	C2-003



1 CATCH BASIN - SQUARE
SCALE: N.T.S.



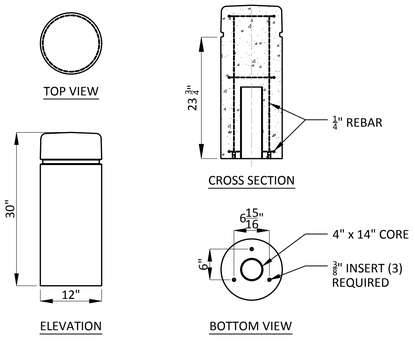
3 BOLLARD - REMOVABLE
SCALE: N.T.S.

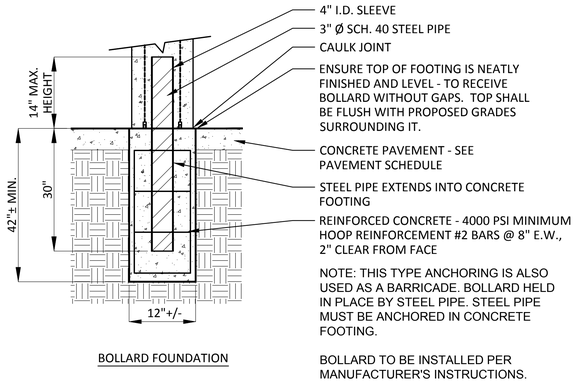


TRUNCATED DOME DIMENSIONS		
DIM.	MIN. (IN)	MAX. (IN)
A	1.60"	2.40"
B	0.65"	1.50"
C	50%–65% OF D DIM.	
D	0.90"	1.40"

NOTE:
DETECTABLE WARNING SURFACE SHALL CONFORM TO CURRENT ADAAG STANDARDS.

6 DETECTABLE WARNING SURFACE DETAIL
SCALE: N.T.S.



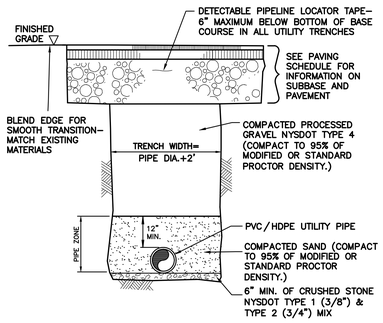


BOLLARD FOUNDATION

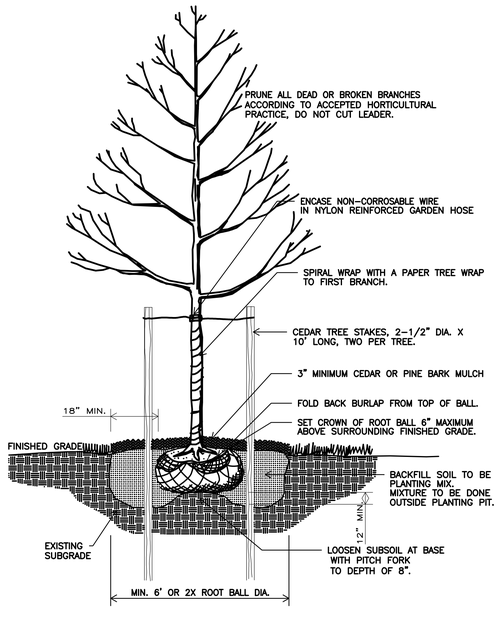
PERMANENT CONCRETE BOLLARD WITH REVEAL LINE -

1. WAUSAU TILE MODEL NO. TF6010, OR APPROVED EQUIVALENT
2. COLOR: A20 WHITE OR A 21 BUFF
3. FINISH: ACID WASH
4. CONTRACTOR TO SUBMIT COLOR AND FINISH SAMPLES TO OWNER AND ARCHITECT FOR FINAL APPROVAL.
5. HEIGHT - 30"

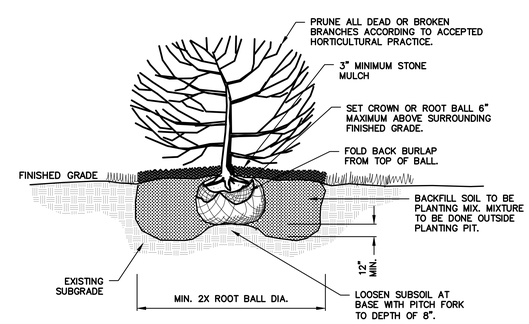
2 BOLLARD - PERMANENT
SCALE: N.T.S.



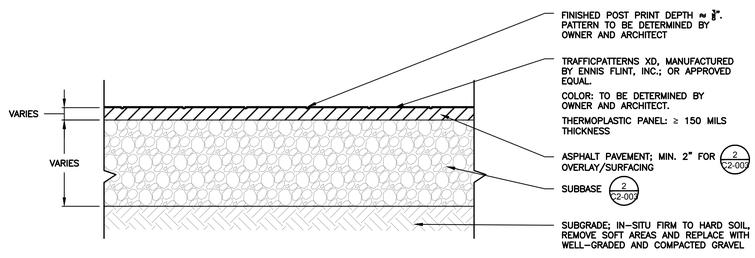
4 UTILITY TRENCH DETAIL
SCALE: N.T.S.



7 TREE PLANTING DETAIL
SCALE: N.T.S.



5 SHRUB PLANTING DETAIL
SCALE: N.T.S.



8 STAMPED ASPHALT DETAIL
SCALE: N.T.S.

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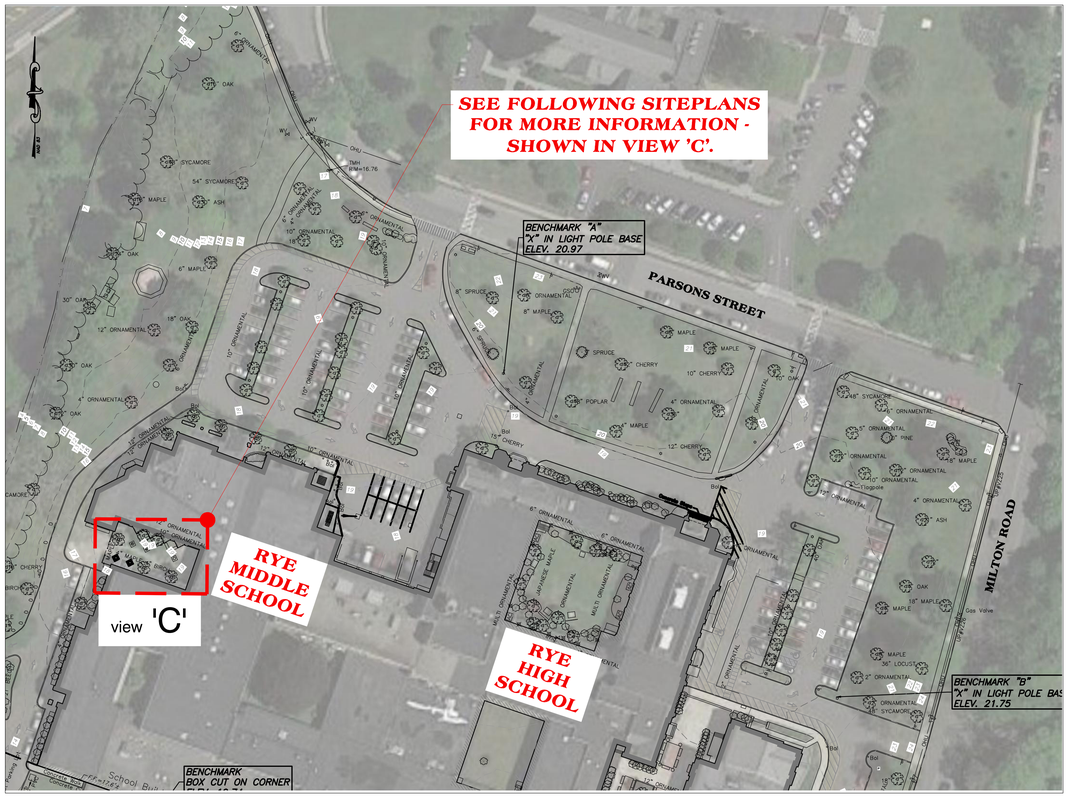
HIGH SCHOOL ENTRANCE

SITE CONSTRUCTION DETAILS

PROJECT 1

SEAL & SIGNATURE

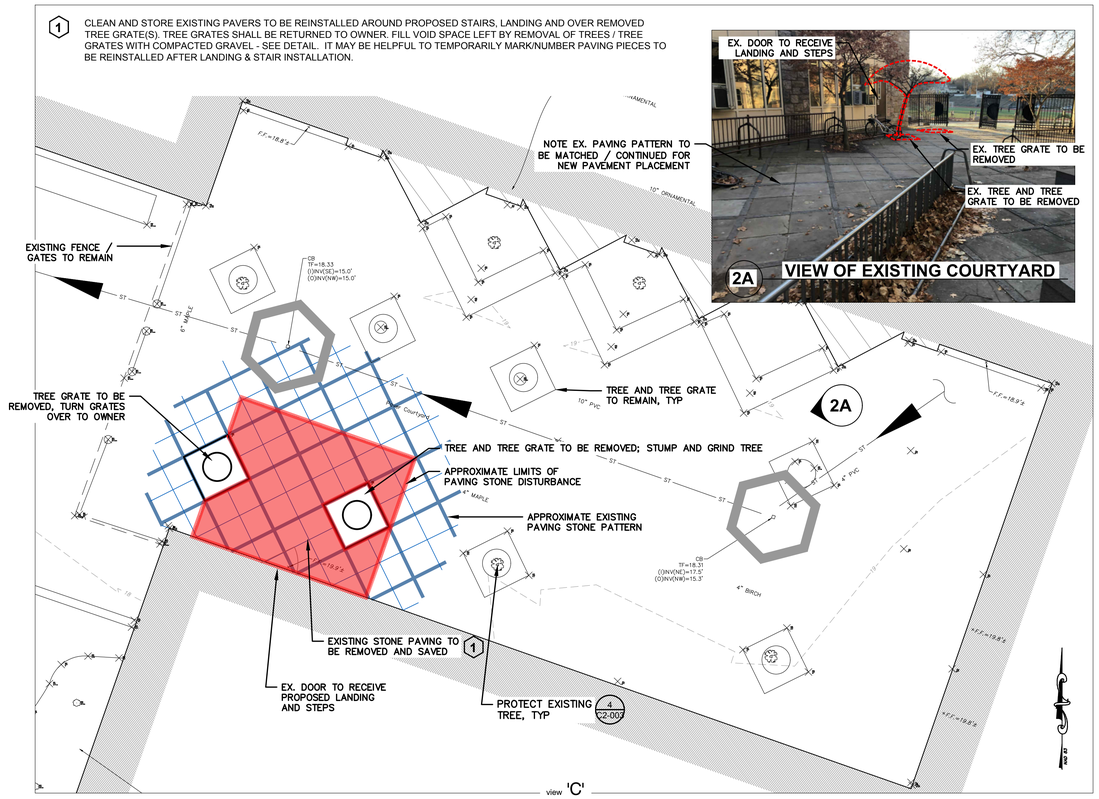
DATE:	11/07/19
PROJECT No:	9200
DRAWING BY:	KSK
CHK BY:	JFB
DWG No:	C2-004



1 CONTEXT MAP
SCALE: BAR SCALE

0' 25' 50' 100'
SCALE: 1" = 50'-0"

1 CLEAN AND STORE EXISTING PAVERS TO BE REINSTALLED AROUND PROPOSED STAIRS, LANDING AND OVER REMOVED TREE GRATE(S). TREE GRATES SHALL BE RETURNED TO OWNER. FILL VOID SPACE LEFT BY REMOVAL OF TREES / TREE GRATES WITH COMPACTED GRAVEL - SEE DETAIL. IT MAY BE HELPFUL TO TEMPORARILY MARK/NUMBER PAVING PIECES TO BE REINSTALLED AFTER LANDING & STAIR INSTALLATION.



2 EXISTING CONDITIONS AND DEMOLITION PLAN
SCALE: BAR SCALE

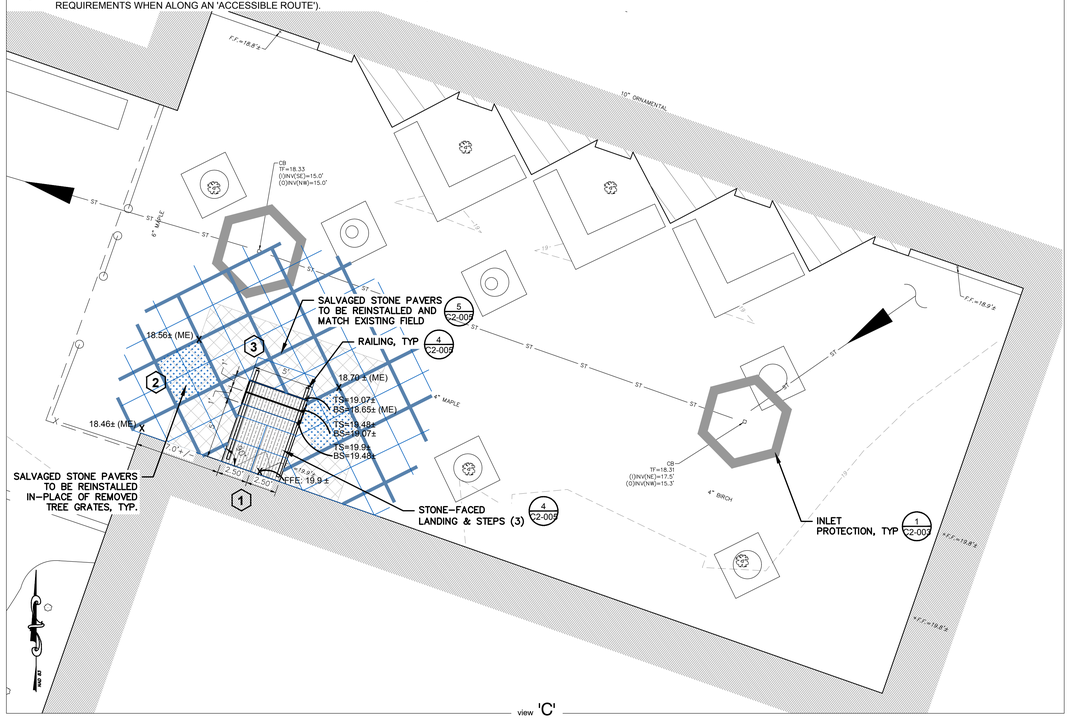
0' 2.5' 5' 10'
SCALE: 1" = 5'-0"

1 SEE ARCHITECTURAL PLANS FOR LAYOUT OF BUILDING MODIFICATIONS AND ALL WORK ASSOCIATED WITH THE PROPOSED STEPS, STONEWORK, HANDRAILS, ETC. CENTER LANDING ON EXISTING DOOR OPENING.

2 ENSURE SMOOTH TRANSITIONS BETWEEN EXISTING AND REINSTALLED PAVING - "MATCH EXISTING" (ME). NO ABRUPT CHANGES - GRADUAL, SMOOTH TRANSITIONS, AS REQUIRED (MEETING ADA REQUIREMENTS WHEN ALONG AN 'ACCESSIBLE ROUTE').

3 CUT AND REINSTALL PAVING AROUND PROPOSED STAIRS, LANDING AND OVER REMOVED TREE GRATE(S) AREAS. ADDITIONAL STONE MAY BE REQUIRED TO MATCH WITH EXISTING MATERIAL AND PAVING LAYOUT.

CONTRACTOR TO SUBMIT SHOP DRAWINGS OF PROPOSED PAVER FIELD TO OWNER AND ARCHITECT FOR APPROVAL TO ENSURE CONSISTENT MATERIALS, PATTERN, COLORS, FINISHES.



3 SITE PLAN - LAYOUT MATERIALS GRADING & EROSION CONTROL PLAN
SCALE: BAR SCALE

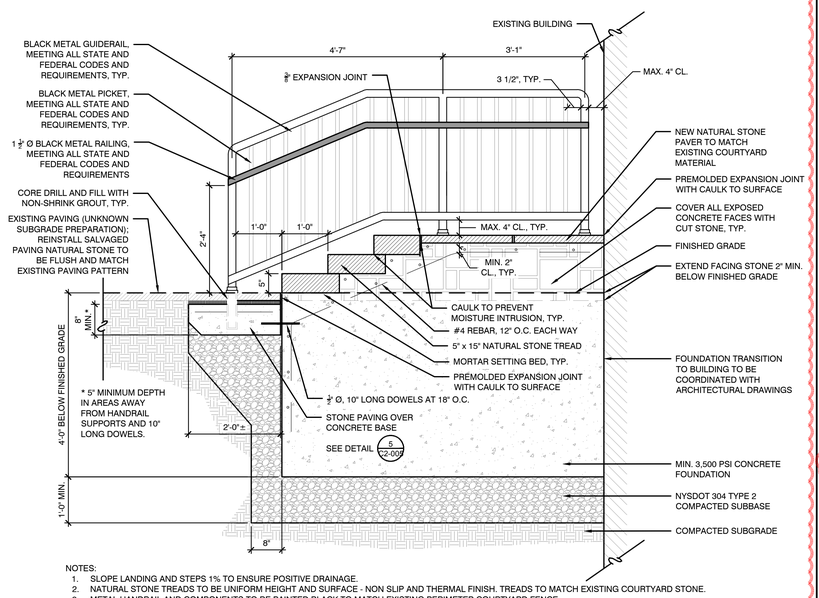
0' 2.5' 5' 10'
SCALE: 1" = 5'-0"

GENERAL NOTE(S):

1. SEE GENERAL NOTES ON SHEET C2-001.

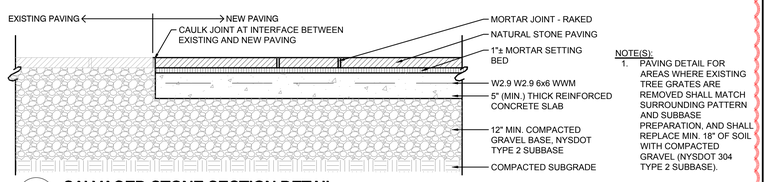
SEDIMENT AND CONTROL PLAN NOTES:

1. CONTRACTOR SHALL MAINTAIN ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT TRACKING OR MOVEMENT OF SEDIMENT OR DEBRIS ONTO PUBLIC ROADS.
2. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND AS SHOWN OR IMPLIED.
3. CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES OF EROSION CONTROL AS SITE CONDITIONS WARRANT.



NOTES:
1. SLOPE LANDING AND STEPS 1% TO ENSURE POSITIVE DRAINAGE.
2. NATURAL STONE TREADS TO BE UNIFORM HEIGHT AND SURFACE - NON SLIP AND THERMAL FINISH. TREADS TO MATCH EXISTING COURTYARD STONE.
3. METAL HANDRAIL AND COMPONENTS TO BE PAINTED BLACK TO MATCH EXISTING PERIMETER COURTYARD FENCE.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SAMPLES FOR APPROVAL OF HANDRAIL AND ADDITIONAL CUT NATURAL STONE, IF NEEDED.

4 CONCRETE STEPS AND RAIL
SCALE: N.T.S.



NOTE(S):
1. PAVING DETAIL FOR AREAS WHERE EXISTING TREE GRATES ARE REMOVED SHALL MATCH SURROUNDING PATTERN AND SUBBASE PREPARATION, AND SHALL REPLACE MIN. 18" OF SOIL WITH COMPACTED GRAVEL (NYSDOT 304 TYPE 2 SUBBASE).

5 SALVAGED STONE SECTION DETAIL
SCALE: N.T.S.

1

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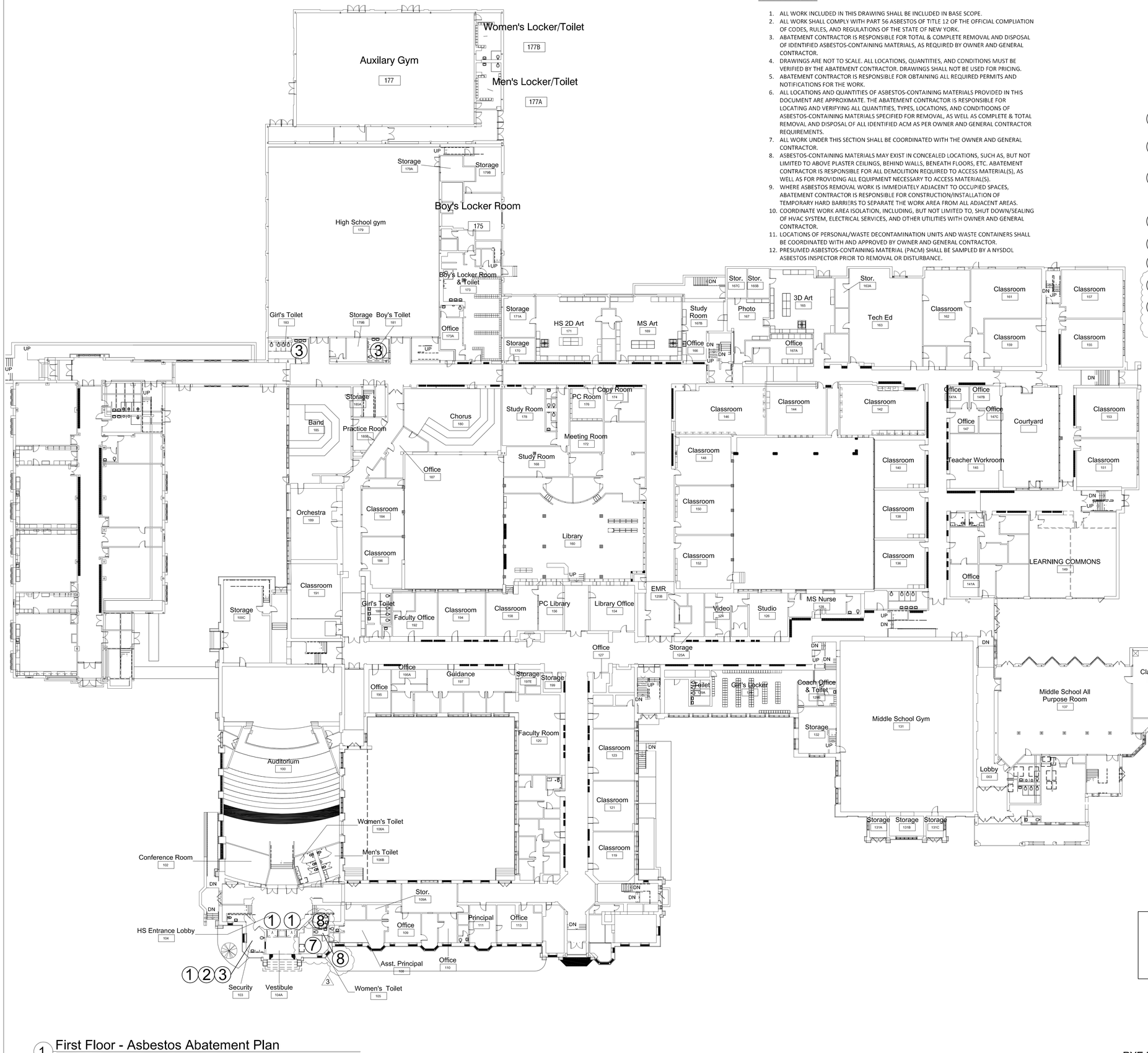
MIDDLE SCHOOL ENTRANCE

SITEPLAN

PROJECT 2

SEAL & SIGNATURE

DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: KSK
CHK BY: JFB
DWG No: C2-005



GENERAL NOTES:

1. ALL WORK INCLUDED IN THIS DRAWING SHALL BE INCLUDED IN BASE SCOPE.
2. ALL WORK SHALL COMPLY WITH PART 56 ASBESTOS OF TITLE 12 OF THE OFFICIAL COMPLIATION OF CODES, RULES, AND REGULATIONS OF THE STATE OF NEW YORK.
3. ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL & COMPLETE REMOVAL AND DISPOSAL OF IDENTIFIED ASBESTOS-CONTAINING MATERIALS, AS REQUIRED BY OWNER AND GENERAL CONTRACTOR.
4. DRAWINGS ARE NOT TO SCALE. ALL LOCATIONS, QUANTITIES, AND CONDITIONS MUST BE VERIFIED BY THE ABATEMENT CONTRACTOR. DRAWINGS SHALL NOT BE USED FOR PRICING.
5. ABATEMENT CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND NOTIFICATIONS FOR THE WORK.
6. ALL LOCATIONS AND QUANTITIES OF ASBESTOS-CONTAINING MATERIALS PROVIDED IN THIS DOCUMENT ARE APPROXIMATE. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL QUANTITIES, TYPES, LOCATIONS, AND CONDITIOONS OF ASBESTOS-CONTAINING MATERIALS SPECIFIED FOR REMOVAL, AS WELL AS COMPLETE & TOTAL REMOVAL AND DISPOSAL OF ALL IDENTIFIED ACM AS PER OWNER AND GENERAL CONTRACTOR REQUIREMENTS.
7. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH THE OWNER AND GENERAL CONTRACTOR.
8. ASBESTOS-CONTAINING MATERIALS MAY EXIST IN CONCEALED LOCATIONS, SUCH AS, BUT NOT LIMITED TO ABOVE PLASTER CEILINGS, BEHIND WALLS, BENEATH FLOORS, ETC. ABATEMENT CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCESS MATERIAL(S), AS WELL AS FOR PROVIDING ALL EQUIPMENT NECESSARY TO ACCESS MATERIAL(S).
9. WHERE ASBESTOS REMOVAL WORK IS IMMEDIATELY ADJACENT TO OCCUPIED SPACES, ABATEMENT CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION/INSTALLATION OF TEMPORARY HARD BARRIERS TO SEPARATE THE WORK AREA FROM ALL ADJACENT AREAS.
10. COORDINATE WORK AREA ISOLATION, INCLUDING, BUT NOT LIMITED TO, SHUT DOWN/SEALING OF HVAC SYSTEM, ELECTRICAL SERVICES, AND OTHER UTILITIES WITH OWNER AND GENERAL CONTRACTOR.
11. LOCATIONS OF PERSONAL/WASTE DECONTAMINATION UNITS AND WASTE CONTAINERS SHALL BE COORDINATED WITH AND APPROVED BY OWNER AND GENERAL CONTRACTOR.
12. PRESUMED ASBESTOS-CONTAINING MATERIAL (PACM) SHALL BE SAMPLED BY A NYSDOL ASBESTOS INSPECTOR PRIOR TO REMOVAL OR DISTURBANCE.

HIGH SCHOOL/MIDDLE SCHOOL ACM NOTES:

(SEE SECTION 020800 FOR DETAILS & QUANTITIES)

NOTE TO CONTACTORS:

A. ACM PIPE INSULATION/FITTINGS EXISTS IN CONCEALED LOCATIONS, SUCH AS BUT NOT LIMITED TO ABOVE PLASTER/SHEETROCK CEILINGS, BEHIND PLASTER/SHEETROCK WALLS, WITHIN WET WALLS, CHASES, SOFFITS, AND PLENUMS. SHOULD THESE MATERIALS BE UNCOVERED AND DISTURBED DURING DEMOLITION, ALL WORK IN THE AREA MUST STOP AND THE UNCOVERED MATERIAL(S) MUST BE ABATED BEFORE WORK RESUMES IN THE SPACE(S).

B. ACM WATERPROOFING TAR EXISTS ON PERIMETER MASONRY WITHIN THE ORIGINAL BUILD OF THE SCHOOL ON ALL FLOORS. SHOULD THIS MATERIAL BE UNCOVERED AND DISTURBED DURING DEMOLITION, ALL WORK IN THE AREA MUST STOP AND THE UNCOVERED MATERIAL(S) MUST BE ABATED BEFORE WORK RESUMES IN THE SPACE(S).

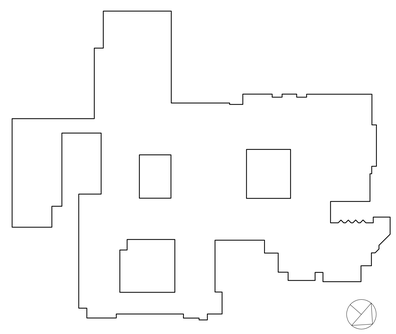
ACM REMOVAL LEGEND:

1. REMOVE & DISPOSE OF DOOR FRAMES AND 1' OF ACM PLASTER SURROUNDING REMOVED FRAMES. PATCH OR REINSTALL MASONRY IN REMOVAL LOCATIONS TO FACILITATE NEW DOOR FRAME INSTALLATION (3 DOORS, APPROX 25 SF PLASTER REMOVAL PER LOCATION).
2. REMOVE & DISPOSE OF PLASTER WALL, WITH METAL LATHE, AND ALL WATERPROOFING TAR ON MASONRY WALL BEHIND THE PASTER/LATHE IN ACCORDANCE WITH DEMOLITION DETAILS ON DRAWING A2-511. COORDINATE REMOVAL LOCATION(S) WITH OWNER AND GENERAL CONTRACTOR (APPROX. 50 SF).
3. - REMOVE & DISPOSE OF RADIATOR/HEATER AND ASSOCIATED INSULATION (APPROX. 12 SF PER LOCATION)
   - REMOVE & DISPOSE OF MIRROR(S) AND ASSOCIATED MASTIC/GLUE/ADHESIVE (APPROX. 12 SF PER LOCATION)
   - REMOVE & DISPOSE OF ALL PIPE INSULATION/FITTINGS CONCEALED WITHIN PLASTER/CMU WALLS/CEILINGS/SOFFITS/CHASES/ETC. (APPROX. 40 LF PER LOCATION)
4. REMOVE & DISPOSE OF ACM FLOORING TO THE SUBSTRATE. REFER TO SECTION 020800 FOR LOCATIONS, QUANTITIES, AND LAYERING SYSTEMS.
5. REMOVE AND DISPOSE OF ACM FLASHING TAR (PERIMETER AND EQUIPMENT)
6. REMOVE AND DISPOSE OF ACM WINDOW CAULK.
7. REMOVE AND DISPOSE OF RADIATORS, ASSOCIATED INSULATION BACKING, AND WATERPROOFING TAR ON MASONRY BEHIND REMOVED RADIATORS. (3 UNITS, APPROX. 12 SF EACH)
8. - REMOVE AND DISPOSE OF DIFFUSERS AND 1' OF ACM PLASTER SURROUNDING REMOVED DIFFUSER. PATCH AS NECESSARY TO ENSURE REPLACEMENT OR ADDITIONAL PATCHWORK IS NON ACM WORK. (2 LOCATIONS, APPROX 4 SF EACH)
   - REMOVE AND DISPOSE OF PLASTER AND SHEETROCK WALLS TO EXPOSE ALL PLUMBING ASSOCIATED WITH TOILET REMOVALS PATCH AS NECESSARY TO ENSURE ALL SUBSEQUENT PLUMBING, PATCHWORK, AND TOILET REINSTALLATION IS NON-ACM WORK. (2 LOCATIONS, APPROX. 12 SF EACH)

3

1 First Floor - Asbestos Abatement Plan

SCALE: 1" = 20'-0"



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1" = 100'

Revision Schedule		
No.	Description	Date
1	ISSUED FOR SED SUBMISSION	09/15/2020
2	BID ISSUE	01/19/2021
3	ADDENDUM 1	01/29/2021

Geddis Architects
Architecture. Planning. Interiors
71 Old Post Road
P.O. Box 1020
Southport, CT 06890
(203) 256-8700

Fielding International
Transforming Education by Design
259 Water Street Suite 1L
Warren , RI 02885 USA
+1 401-289-2789

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CONSULTING ENGINEERS
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WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
518-463-4400

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

Environmental Consultant
QUALITY ENVIRONMENTAL SOLUTIONS & TECHNOLOGIES, INC.
1376 Route 9
Wappingers Falls, NY 12590
845-298-6251

SED #: 66180001-0005-032

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

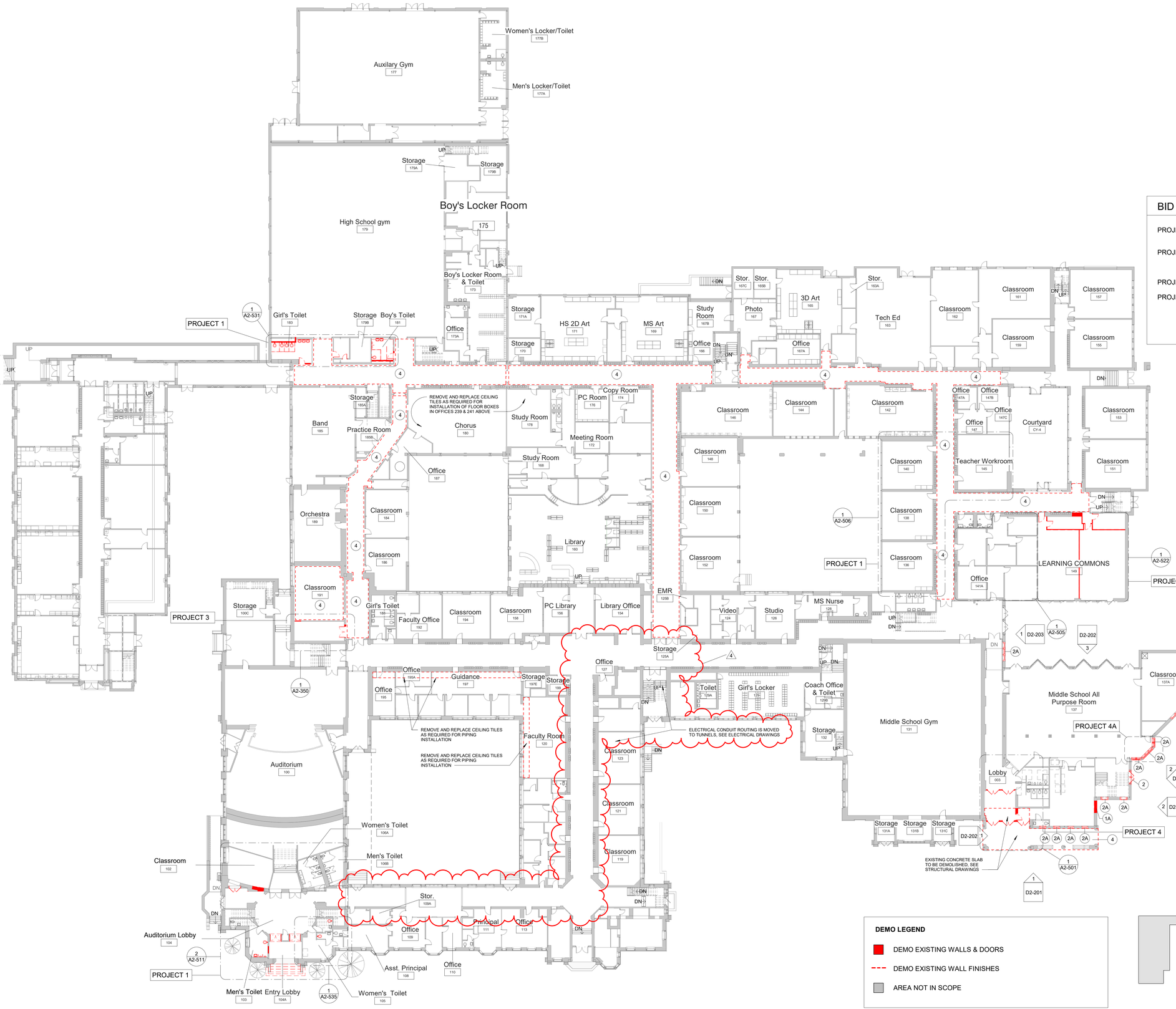
1 Parsons Street, Rye, New York 10580

FIRST FLOOR ASBESTOS ABATMENT

SEAL & SIGNATURE

STATE OF NEW YORK — MICHAEL NICHOLAS ODEH — 067797 — LICENSED PROFESSIONAL ENGINEER

DATE:	01/19/2021
PROJECT No:	9200
DRAWING BY:	JP
CHK BY:	AP
DWG No:	HSMS-ASB-101



BID PROJECTS

PROJECT 1: ALL WORK NOT INCLUDED IN PROJECTS 2, 3 & 4 LISTED BELOW

PROJECT 2: MIDDLE SCHOOL I-LAB & UPGRADE TO 2ND FLOOR MECHANICAL ROOM INCLUDING 1ST FLOOR GUIDANCE CEILING WORK

PROJECT 3: NEW ELEVATOR & 3RD FLOOR LEARNING COMMONS

PROJECT 4: MIDDLE SCHOOL MASONRY RESTORATION AND ROOF REPLACEMENT

ALTERNATE 4A: MIDDLE SCHOOL MASONRY RESTORATION - TOWER VENEER REPLACEMENT & NEW WINDOWS

Demolition Keynote Legend Phase 2- skinny table

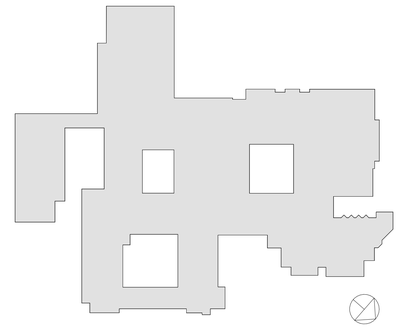
Key Value	Keynote Text
1	REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSEMBLY.
1A	REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSEMBLY TO CREATE A DOOR OPENING. SEE DOOR SCHEDULE.
1B	REMOVE EXISTING GYP. BD./ TILE ON TAG SIDE OF THE WALL. EXISTING STUDS TO REMAIN.
1C	REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSEMBLY TO CREATE A WINDOW OPENING. SEE WINDOW TYPES.
1D	EXISTING STONE VENEER/PRECAST/LIMESTONE TO BE REMOVED AND STORED TO BE RE-INSTALLED. SEE DEMO AND PROPOSED DRAWINGS FOR EXTENT OF WORK.
2	REMOVE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE.
2A	REMOVE EXISTING EXTERIOR WINDOW, FRAME AND ASSOCIATED HARDWARE.
2B	REMOVE EXISTING INTERIOR WINDOW, FRAME AND ASSOCIATED HARDWARE.
2C	REMOVE EXISTING EXTERIOR LOUVER, FRAME, SILL & ACCOCIATED HARDWARE
3	REMOVE EXISTING FLOORING, BASE, ADHESIVE AND ALL APPLIED ACCESSORIES. FLASH PATCH AS REQUIRED TO ACHIEVE SMOOTH AND LEVEL SUBSTRATE PER MANUF. SPEC. FOR NEW FLOORING. PITCH TO NEW FLOOR DRAINS.
4	REMOVE EXISTING GYP. BD. CEILINGS, CEILING GRID, TILES & SOFFITS BELOW STRUCTURAL DECK. REMOVE EXISTING LIGHT FIXTURES AND DEVICES.
5	REMOVE EXISTING PLUMBING FIXTURES, TOILET PARTITIONS & ASSOCIATED PLUMBING AND ACCESSORIES.
6	REMOVE EXISTING MILLWORK COUNTER, CABINETS AND SHELVING.
6A	REMOVE EXISTING LOCKERS AND ASSOCIATED HARDWARE.

DEMO LEGEND

- DEMO EXISTING WALLS & DOORS
- DEMO EXISTING WALL FINISHES
- AREA NOT IN SCOPE

KEYNOTES

1. APPROVED IN PHASE 1, SED #6618001-0005-031 ON 03/16/20



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1" = 100'

1 First Floor Plan-Phase 2 Demo

SCALE: 1" = 20'-0"

Revision Schedule

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AV Consultant
CAVANAUGH TOCCI
327 F Boston Post Road
Sudbury, MA 01776-3027
978-443-7871

SED #: 6618-0001-0005-032

PROJECT

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Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

FIRST FLOOR DEMOLITION PLAN

PROJECTS 1, 2, 3, 4 & 4A

SEAL & SIGNATURE

DATE: 01/19/21
PROJECT No: 9200
DRAWING BY: Author
CHK BY: Checker
DWG No: D2-101

CEILING FIXTURE LEGEND

ARCHITECTURAL LIGHTING

R1 — **RECESSED 2'X2' LIGHT:**
BASIS OF DESIGN: LITHONIA LIGHTING EPANL LED FLAT PANEL
EPANL 2X2 4000LM 80CRI 35K MIN1 ZT MVOLT WITH DGA22 DRYWALL ADAPTER

R2 — **RECESSED 2'X2' LIGHT:**
BASIS OF DESIGN: MARK ARCHITECTURAL LIGHTING WHSPR LED TOFFER
WHSPR 2X2 4800LM 35K 90CRI MIN1 MVOLT

R4 — **RECESSED 6" SQUARE LIGHT:**
BASIS OF DESIGN: PATHWAY LIGHTING CALIBER PLUS 6" LED SQUARE SERIES
6SQLBV-10-35K-EX-W50-DA-6SQLBVSCL

R4B — **RECESSED 6" SQUARE LIGHT:**
BASIS OF DESIGN: PATHWAY LIGHTING CALIBER PLUS 6" LED SQUARE SERIES
6SQLBV-20-35K-EX-W50-DA-6SQLBVSCL

R5 — **RECESSED 6" SQUARE IMPACT RESISTANT LIGHT:**
BASIS OF DESIGN: PATHWAY LIGHTING CALIBER PLUS 6" LED SQUARE SERIES
6SQLBV-10-35K-E-X-L-DA-6SQLBVL8SCLPF WITH IMPACT RESISTANT LENS

R8 — **RECESSED DIRECTIONAL LIGHT:**
BASIS OF DESIGN: LUMENWERX - VOILA 4" ROUND DOWNLIGHT.
VO4RR-OF-ADJ-UNV-14W-D1-VO4-SW-60-2-80-35-LS-VO4RR-SDL-SR-TMW-TRM-TMW

R9 — **CEILING GRID RECESSED LINEAR LIGHT:**
BASIS OF DESIGN: T-BAR FLEX 15/16" BLOCK CLEAR DIFFUSING LENS
TBFL MW 22 24 D A W

R10 — **RECESSED STAIR LIGHTING:**
BASIS OF DESIGN: KELVIX - SIGNWAVE 1 (INDOOR/OUTDOOR) SW-1 FLEXIBLE LIGHTING SYSTEM
SW1-see plan-35K-as needed; SEE DETAILS FOR HS ENTRY STAIRS

P1 — **8' DIRECT/INDIRECT LINEAR PENDANT WITH LOUVERS:**
BASIS OF DESIGN: AXIS STENCIL D/I PENDANT
AXIS STLDI-SLI-500-DML-600-8-80-35-W-UNV
ALTERNATE: MARK ARCHITECTURAL LIGHTING SLOT 1 S4LID LCB 6FT MSL8 80CRI 35K 800LMF I80CRI I35K I800LMF BW MIN1 SCT LVRRA SLV F1 36A RDCY SLVCY WCRD

P2 — **6' DIRECT/INDIRECT LINEAR PENDANT WITH LOUVERS:**
BASIS OF DESIGN: AXIS STENCIL D/I PENDANT
AXIS STLDI-SLI-500-DML-600-6-80-35-W-UNV
ALTERNATE: MARK ARCHITECTURAL LIGHTING SLOT 1 S4LID LCB 4FT MSL8 80CRI 35K 800LMF I80CRI I35K I800LMF BW MIN1 SCT LVRRA SLV F1 36A RDCY SLVCY WCRD

P3 — **4' DIRECT/INDIRECT LINEAR PENDANT WITH LOUVERS:**
BASIS OF DESIGN: AXIS STENCIL D/I PENDANT
AXIS STLDI-SLI-500-DML-600-4-80-35-W-UNV
ALTERNATE: MARK ARCHITECTURAL LIGHTING SLOT 1 S1LI LLP 12FT MSL12 I90CRI I35K I1200LMF BW MIN1 MVOLT WHT WEC ZT F1/36A RDCY WHTCY WCRD

P4 — **CONTINUOUS INDIRECT/DIRECT LINEAR PENDANT WITH ACRYLIC DIFFUSER:**
BASIS OF DESIGN: MARK ARCHITECTURAL LIGHTING SLOT 1 LED - DIRECT/INDIRECT PENDANT PATTERNS
S1LIDP-OPP-see plan-90CRI-35K-200LMF-I90CRI-I35K-I400LMF-BW-MIN1-- QCGFW--WHT- - - -36A-RDCY-WHTCY-WCRD

P5-W — **ACCENT PENDANT WHITE:**
BROWNLEE LIGHTING - INNIE LED.
2680-20-tbd-45W-tbd-SSM-NT-35K

P5-B — **ACCENT PENDANT BLUE:**
BROWNLEE LIGHTING - INNIE LED.
2680-20-tbd-45W-tbd-SSM-NT-35K

P5-G — **ACCENT PENDANT GREEN:**
BROWNLEE LIGHTING - INNIE LED.
2680-20-tbd-45W-tbd-SSM-NT-35K

P6 — **GLASS CYLINDER PENDANT:**
ACUITY BRANDS - HEALTHCARE LIGHTING - POPS SINGLE PENDANT
HPP1-9ST-MVOLT-CYL-LRG-35K-ZT-MIN5-INT-BA

WM1 / WM2 — **WALL MOUNTED INDIRECT LED COVE LIGHT:** (LENGTHS PER PLAN - V.I.F)
BASIS OF DESIGN: MARK ARCHITECTURAL LIGHTING SLOT 1 LED - INDIRECT WALL
S1WI-LLP-8FT-MSL8-I90CRI-I35K-I400LMF-MIN1-MVOLT-BLKT-ZT-DCF

LED SURFACE LIGHTING:
BASIS OF DESIGN: LLI ARCHITECTURAL LIGHTING ANGLED EXTRUSION + LED TAPELIGHT
LLI-ANG-S-F-4.4W- -35K-24V-see plans and details for dimensions

WM3 — **EXTERIOR OVER DOOR EMERGENCY LIGHT:**
BASIS OF DESIGN: LUMINAIRE LED - BLADE BLD - VANDAL RESISTENT MULLION-MOUNT LED
BLD-48IN-MIN1- - -800LM-35K- -DP-BRZ

WM4 — **WALL MOUNTED UP-DOWN SCONCE:**
BASIS OF DESIGN: BROWNLEE LIGHTING - BOW
1572 - BL - B12 - MG - 35K

WM5 — **WALL MOUNTED DIRECT INDIRECT COVE LIGHT:**
BASIS OF DESIGN: KELVIX LED TAPE LIGHTING WITH EXTRUDED ALUMINUM MOUNTING
SEE DETAIL ON SHEET A2-513

CEILING FINISHES LEGEND

CEILING MATERIAL

CLG-1 — **2X2 ACOUSTIC CEILING TILE**
ARMSTRONG OPTIMA 2x2 CEILING TILE WITH PRELUDE 15/16" SUSPENSION SYSTEM - WHITE

CLG-2 — PAINTED GYP BOARD

CLG-3 — **2X2 METAL CEILING TILE**
ARMSTRONG METALWORKS TEGULAR 2x2 CEILING TILE WITH PRELUDE 15/16" SUSPENSION SYSTEM
WHITE WITH MICRO PERFORATIONS AND BLACK ACOUSTIC BACKER

CLG-4 — USG SHEETROCK BRAND EXTERIOR GYPSUM CEILING BOARD

K-13 ACOUSTICAL SPRAY
2" THICK ON ALL STRUCTURE & UNDERSIDE OF FLOOR/ROOF DECK

EXTRUDED ALUMINUM TRIM
ARMSTRONG 8" AXIOM TRIM

ACOUSTIC CEILING FIXTURES

C-1 — **RECTANGULAR ACOUSTIC CLOUD:**
BASIS OF DESIGN: ARMSTRONG SOUNDSCAPE SHAPES
SMALL RECTANGLE 48" x 72" x 2"
COLOR: PURE WHITE

C-2 — **SQUARE ACOUSTIC CLOUD:**
BASIS OF DESIGN: ARMSTRONG SOUNDSCAPE SHAPES
SQUARE 48" x 48" x 2"
COLOR: PURE WHITE

A/V FIXTURES - COORDINATE WITH OWNER'S A/V CONTRACTOR

THIS DRAWING SHOWN FOR ARCHITECTURAL COORDINATION PURPOSES ONLY. SEE ELECTRICAL DRAWINGS. OWNER'S AV DRAWINGS CAN BE PROVIDED UPON REQUEST. ALL POWER, DATA, COPPER WIRE FOR TELECOIL LOOP SYSTEM, AND A/V CONDUIT TO BE BY ELECTRICAL CONTRACTOR.

PROJECTORS AND DISPLAYS

FP — **WALL-MOUNTED LCD DISPLAY (BY OWNER):**
BASIS OF DESIGN: SHARP, & CHIEF MANUFACTURING. PROVIDE BLOCKING.

SPEAKERS

S2 — **CEILING-RECESSED AUDIO SPEAKER (BY OWNER):**
BASIS OF DESIGN: COMMUNITY D6 - WHITE. PROVIDE BLOCKING.

L — **CEILING-MOUNTED LINEAR ARRAY SPEAKER (BY OWNER):**
BASIS OF DESIGN: INNOVEX FLEX FOCUS FF-V2.6
PROVIDE BLOCKING.

(ELEV.) (PLAN) — **WALL MOUNTED SPEAKER (BY OWNER):**
BASIS OF DESIGN: INNOVEX MICRO - FOCUS 2.1.
PROVIDE BLOCKING.(SEE INTERIOR ELEVATIONS AND RCP)

ACCESSORIES

(RCP) (PLAN) — **AV EQUIPMENT CEILING RACK (BY OWNER) :**
BASIS OF DESIGN: ATLAS CR222-NR.
PROVIDE BLOCKING.(SEE INTERIOR ELEVATIONS AND RCP)

(ELEV.) (PLAN) — **WALL MOUNTED DIGITAL CLOCK:**
BASIS OF DESIGN: ATLAS IED IP DUAL SIDED LCD WITH SPEAKERS
PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN)

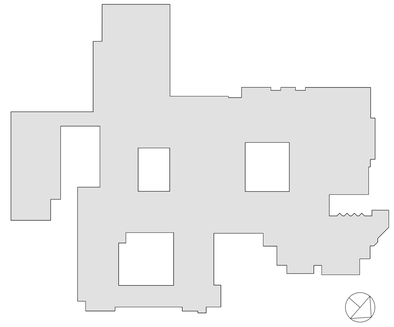
(ELEV.) (PLAN) — **IP PHONE:**
BASIS OF DESIGN: CISCO.
PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN)

(ELEV.) R6 (PLAN) — **TOUCH CONTROL PANEL (BY OWNER)**
EXTRON MLC PLUS 100. (SEE INTERIOR ELEVATIONS AND POWER & TECH PLAN)

TELECOIL LOOP :
BY ELECTRICAL CONTRACTOR. AUDIO INDUCTION LOOP AIDS ASSISTIVE LISTENING TECHNOLOGY. CONSISTS OF PHYSICAL CABLE LOOPS PLACED AROUND DESIGNATED SPACES. (SEE ELECTRICAL DRAWINGS)

GENERAL NOTE:

CEILING CONTRACTOR TO OWN CEILING CUT OUTS FOR A/V CEILING RECESSED SPEAKERS. COORDINATE WITH OWNER'S AV CONTRACTOR AND DO NOT CUT HOLES UNTIL THE SPEAKERS ARE ON SITE AND COORDINATION DRAWING AND DOCUMENTS ARE APPROVED.



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN
1" = 100'

Revision Schedule

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SED #: 6618-0001-0005-032

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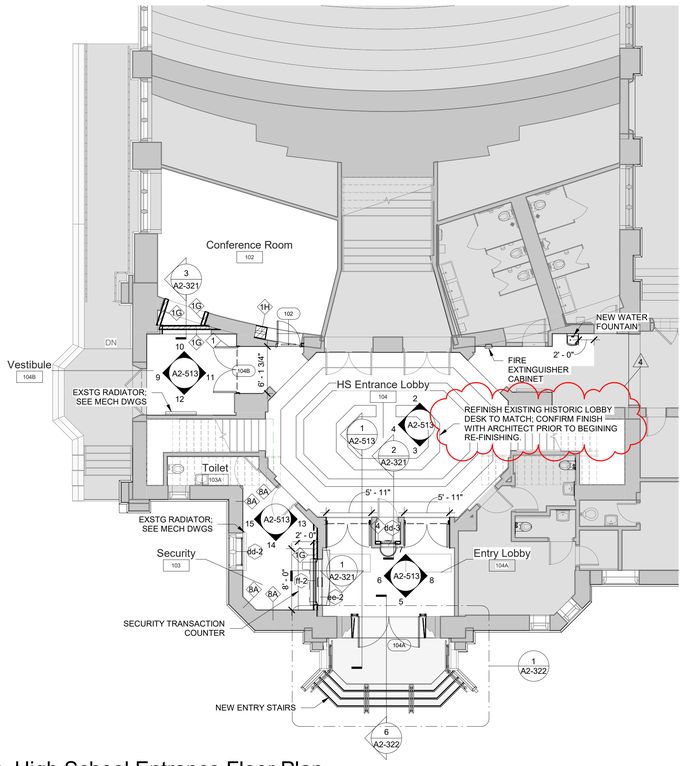
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CEILING FIXTURE AND MATERIAL LEGENDS

PROJECTS 1, 2, & 3

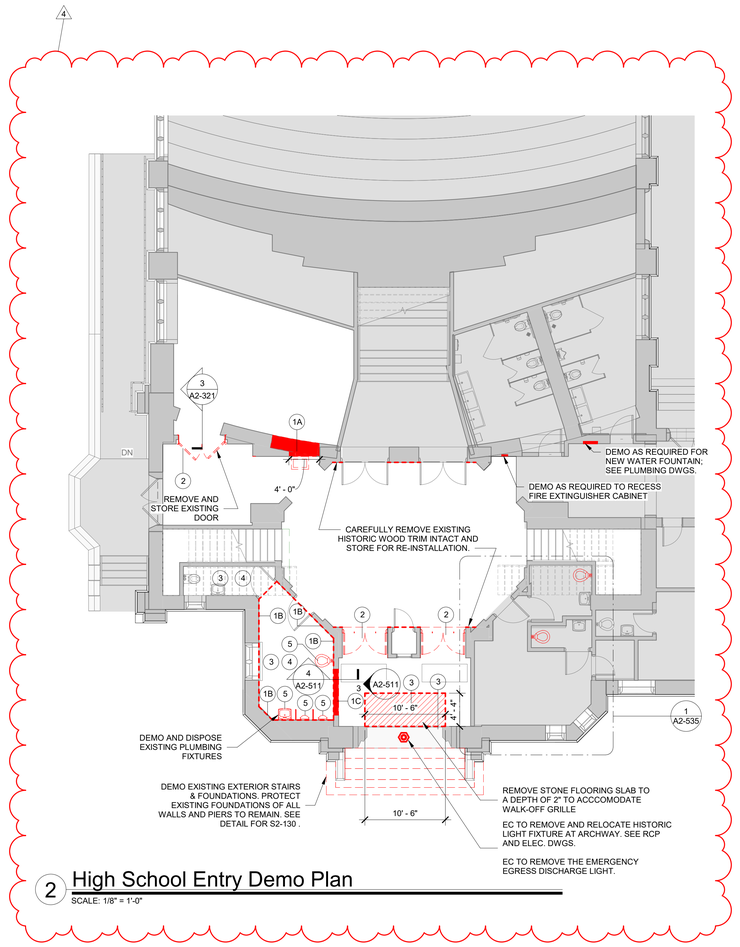
SEAL & SIGNATURE

DATE: 01/19/21
PROJECT No: 9200
DRAWING BY: Author
CHK BY: Checker
DWG No:
A2-400



1 High School Entrance Floor Plan

SCALE: 1/8" = 1'-0"



2 High School Entry Demo Plan

SCALE: 1/8" = 1'-0"

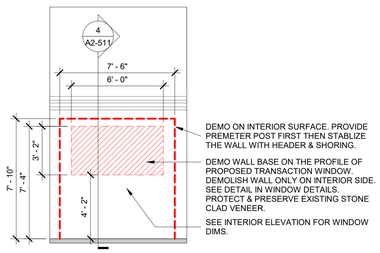
Demolition Keynote Legend Phase 2	
Key Value	Keynote Text
1	REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSEMBLY.
1A	REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSEMBLY TO CREATE A DOOR OPENING. SEE DOOR SCHEDULE.
1B	REMOVE EXISTING GYP. BD./ TILE ON TAG SIDE OF THE WALL. EXISTING STUDS TO REMAIN.
1C	REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSEMBLY TO CREATE A WINDOW OPENING. SEE WINDOW TYPES.
1D	EXISTING STONE VENEER/PRECAST/LIMESTONE TO BE REMOVED AND STORED TO BE RE-INSTALLED. SEE DEMO AND PROPOSED DRAWINGS FOR EXTENT OF WORK.
2	REMOVE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE.
2A	REMOVE EXISTING EXTERIOR WINDOW, FRAME AND ASSOCIATED HARDWARE.
2B	REMOVE EXISTING INTERIOR WINDOW, FRAME AND ASSOCIATED HARDWARE.
2C	REMOVE EXISTING EXTERIOR LOUVER, FRAME, SILL & ACCOCIATED HARDWARE
3	REMOVE EXISTING FLOORING, BASE, ADHESIVE AND ALL APPLIED ACCESSORIES. FLASH PATCH AS REQUIRED TO ACHIEVE SMOOTH AND LEVEL SUBSTRATE PER MANUF. SPEC. FOR NEW FLOORING. PITCH TO NEW FLOOR DRAINS.
4	REMOVE EXISTING GYP. BD. CEILINGS, CEILING GRID, TILES & SOFFITS BELOW STRUCTURAL DECK. REMOVE EXISTING LIGHT FIXTURES AND DEVICES.
5	REMOVE EXISTING PLUMBING FIXTURES, TOILET PARTITIONS & ASSOCIATED PLUMBING AND ACCESSORIES.
6	REMOVE EXISTING MILLWORK COUNTER, CABINETS AND SHELVING.
6A	REMOVE EXISTING LOCKERS AND ASSOCIATED HARDWARE.

GENERAL NOTE:

DIMENSIONS ARE SHOWN CENTERLINE TO CENTERLINE FOR NEW WALLS AND FACE OF EXISTING FINISH FOR EXTERIOR WALLS OR EXISTING WALLS TO REMAIN (UNLESS NOTED OTHERWISE)

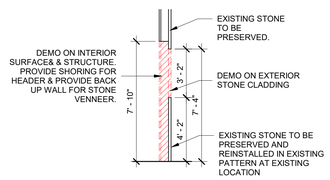
DEMO LEGEND

- DEMO EXISTING WALLS & DOORS
- DEMO EXISTING WALL FINISHES
- AREA NOT IN SCOPE



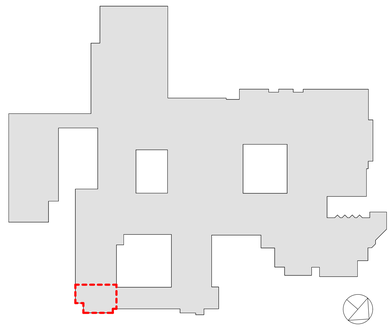
3 HS Security Window Demo Elevation

SCALE: 1/4" = 1'-0"



4 HS Security Window Demo Section

SCALE: 1/4" = 1'-0"



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1" = 100'

Revision Schedule		
No.	Description	Date
1	SED SUBMISSION	09/15/2020
2	SED SUBMISSION: Addendum #1	01/11/2021
3	ISSUED FOR BID	01/19/2021
4	BID ADDENDUM #1	01/29/2021

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71 Old Post Road
P.O. Box 1020
Southport, CT 06890
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259 Water Street Suite 1L
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Structural Engineer
ODEH ENGINEERS
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WESTON & SAMPSON
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978-443-7871

SED #: 6618-0001-0005-032

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

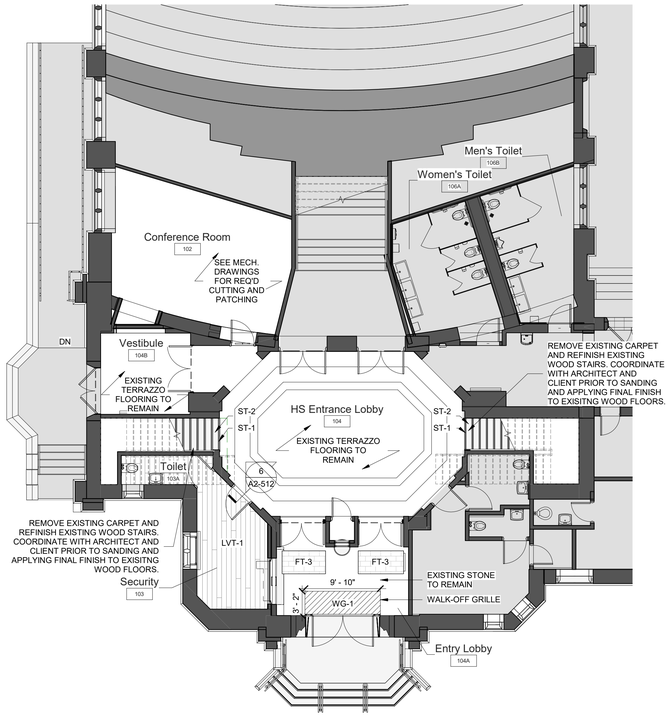
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL ENTRANCE PLANS

PROJECT 1

SEAL & SIGNATURE

DATE: 11/04/19
PROJECT No: 9200
DRAWING BY: Author
CHK BY: Checker
DWG No: A2-511



1 High School Entrance Flooring Plan

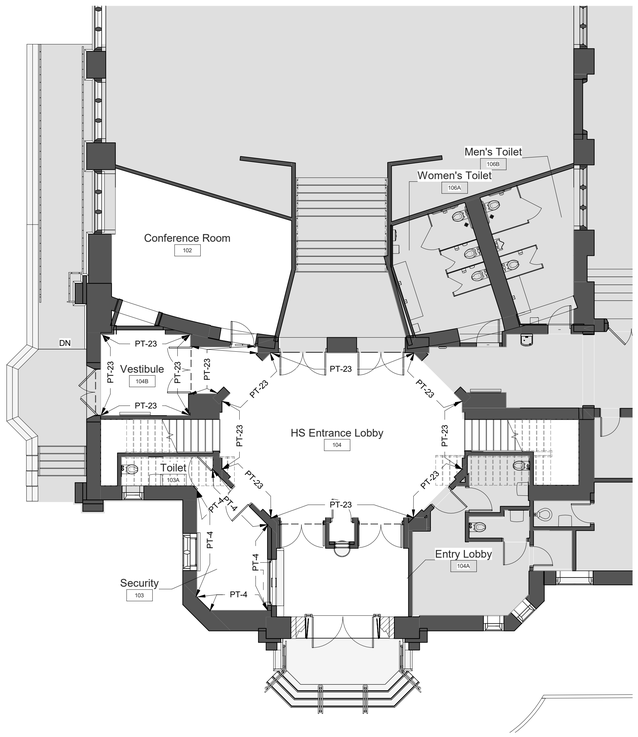
SCALE: 1/8" = 1'-0"

GENERAL NOTE:

1. ALL AREAS WITH NEW FLOORING TO RECEIVE SELF-LEVELING UNDERLAYMENT SO THAT SUBSTRATE IS SMOOTH AND LEVEL PER FLOORING MFG'S INSTRUCTIONS.

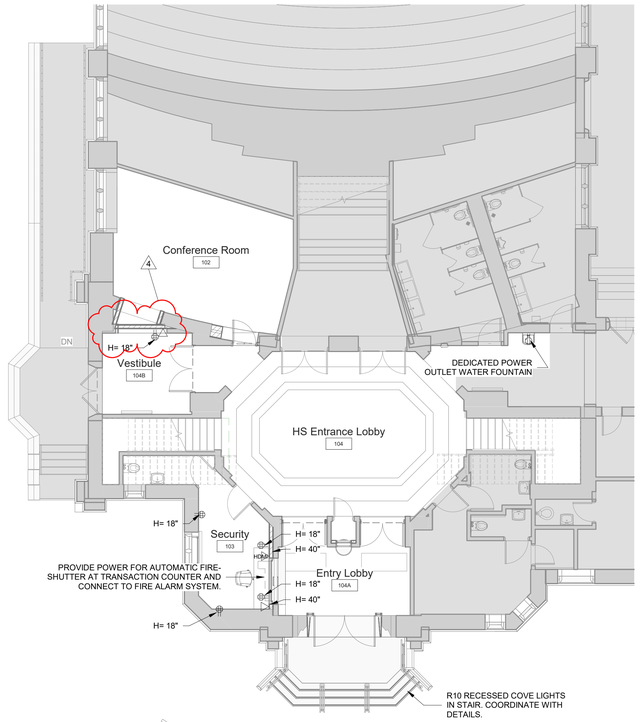
GENERAL NOTE:

SEE INTERIOR ELEVATIONS FOR CUT LINES OF WALL FINISHES



4 High School Entry Wall Paint Plan

SCALE: 1/8" = 1'-0"



2 High School Entrance Power and Technology Plan

SCALE: 1/8" = 1'-0"

A/V FIXTURES - COORDINATE WITH OWNER'S A/V CONTRACTOR

THIS DRAWING SHOWN FOR ARCHITECTURAL COORDINATION PURPOSES ONLY. SEE ELECTRICAL DRAWINGS. OWNER'S AV DRAWINGS CAN BE PROVIDED UPON REQUEST. ALL POWER, DATA, COPPER WIRE FOR TELECOIL LOOP SYSTEM, AND A/V CONDUIT TO BE BY ELECTRICAL CONTRACTOR.

PROJECTORS AND DISPLAYS

FP

WALL-MOUNTED LCD DISPLAY (BY OWNER):
BASIS OF DESIGN: SHARP, & CHIEF MANUFACTURING. PROVIDE BLOCKING.

SPEAKERS

S2

CEILING-RECESSED AUDIO SPEAKER (BY OWNER):
BASIS OF DESIGN: COMMUNITY D6 - WHITE. PROVIDE BLOCKING.

L

CEILING-MOUNTED LINEAR ARRAY SPEAKER (BY OWNER):
BASIS OF DESIGN: INNOVEX FLEX FOCUS FF-V2.6
PROVIDE BLOCKING.

L (ELEV.) L (PLAN)

WALL MOUNTED SPEAKER (BY OWNER):
BASIS OF DESIGN: INNOVEX MICRO - FOCUS 2.1.
PROVIDE BLOCKING.(SEE INTERIOR ELEVATIONS AND RCP)

ACCESSORIES

(RCP) (PLAN)

AV EQUIPMENT CEILING RACK (BY OWNER) :
BASIS OF DESIGN: ATLAS CR222-NR.
PROVIDE BLOCKING.(SEE INTERIOR ELEVATIONS AND RCP)

(ELEV.) (PLAN)

WALL MOUNTED DIGITAL CLOCK:
BASIS OF DESIGN: ATLAS IED IP DUAL SIDED LCD WITH SPEAKERS
PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN)

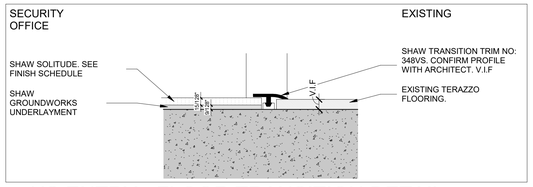
T (ELEV.) T (PLAN)

IP PHONE:
BASIS OF DESIGN: CISCO.
PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN)

R5 (ELEV.) R5 (PLAN)

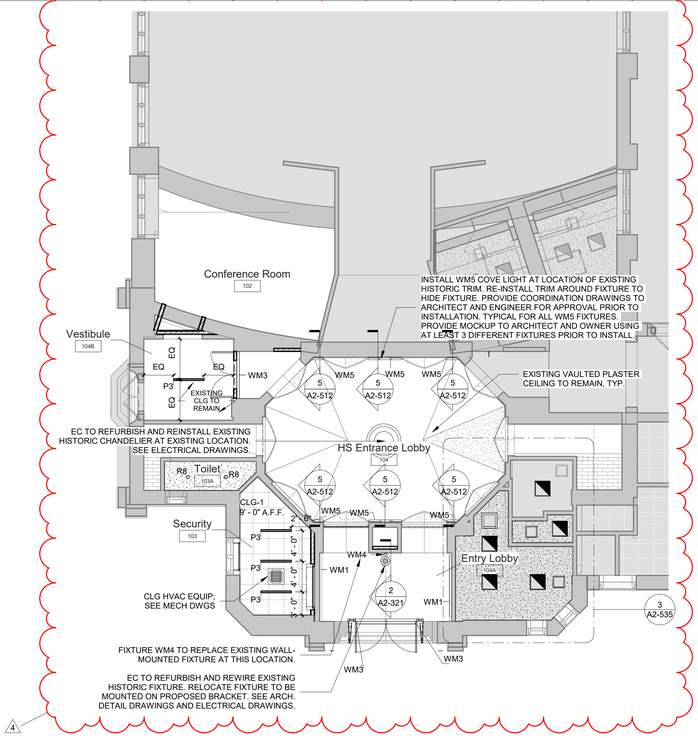
TOUCH CONTROL PANEL (BY OWNER)
EXTRON MLC PLUS 100. (SEE INTERIOR ELEVATIONS AND POWER & TECH PLAN)

TELECOIL LOOP :
BY ELECTRICAL CONTRACTOR. AUDIO INDUCTION LOOP AIDS ASSISTIVE LISTENING TECHNOLOGY. CONSISTS OF PHYSICAL CABLE LOOPS PLACED AROUND DESIGNATED SPACES. (SEE ELECTRICAL DRAWINGS)



6 HS ENTRY - FLOOR TRANSITION DETAIL A

SCALE: 12" = 1'-0"



3 High School Entry RCP

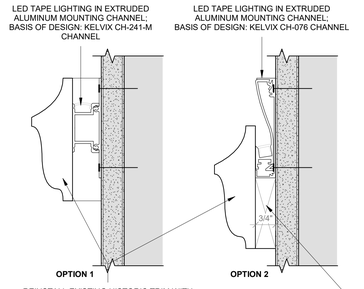
SCALE: 1/8" = 1'-0"

AREA NOT IN SCOPE

POWER OUTLETS & DEVICES LEGEND:

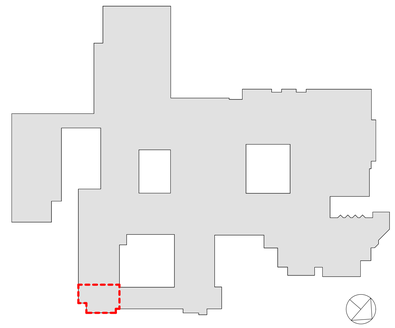
THIS DRAWING SHOWN FOR ARCHITECTURAL COORDINATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS. OWNER'S AV DRAWINGS CAN BE PROVIDED UPON REQUEST. ALL POWER, DATA, COPPER WIRE FOR TELECOIL LOOP SYSTEM, AND A/V CONDUIT TO BE BY ELECTRICAL CONTRACTOR.

- USB A PWR — USB AND POWER OUTLET
- DOUBLE POWER OUTLET
- QUAD POWER OUTLET
- INTEGRATED FLOOR OUTLET AND AV INPUT; 4 INTEGRATED POWER OUTLETS. BASIS OF DESIGN: FSR FL-500P-4-B
- P — HARDWIRED POWER LOCATION: *NOTE ELECTRICAL CONTRACTOR TO SCHEDULE COORDINATION MEETING WITH ARCHITECT TO VERIFY HARDWIRE LOCATION FOR POWER INTEGRATED CASEWORK/FURNITURE
- LCP — LIGHTING CONTROL PANEL
- LIGHTING SWITCH
- 4D — ETHERNET DATA OUTLET
- HDMI — HDMI DATA OUTLET
- (ELEV.) (PLAN) — WALL MOUNTED DIGITAL CLOCK:
- T (ELEV.) T (PLAN) — IP PHONE:



5 HIGH SCHOOL ENTRY LOBBY - COVE LIGHT AT TRIM

SCALE: 6" = 1'-0"



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1" = 100'

Revision Schedule

No.	Description	Date
1	SED SUBMISSION	09/15/2020
3	ISSUED FOR BID	01/19/2021
4	BID ADDENDUM #1	01/29/2021

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1 Winners Circle, Suite 130
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SED #: 6618-0001-0005-032

PROJECT

Rye City School District
555 Theodore Fremd Ave, Rye, NY 10580

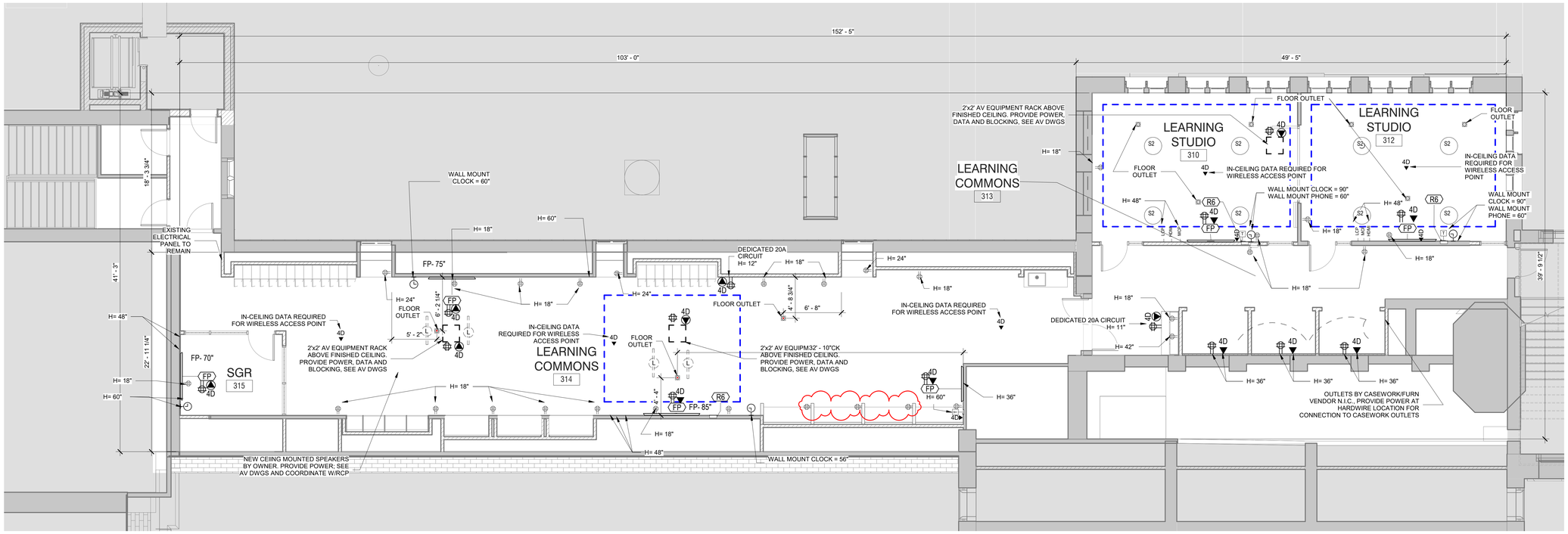
Rye High School & Middle School
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL ENTRANCE PLANS

PROJECT 1

SEAL & SIGNATURE

DATE: 06/12/20
PROJECT No: 9200
DRAWING BY: Author
CHK BY: Checker
DWG No: A2-512



1 Third Floor Power and Technology Plan

SCALE: 3/16" = 1'-0"

POWER OUTLETS & DEVICES LEGEND:

THIS DRAWING SHOWN FOR ARCHITECTURAL COORDINATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS. OWNER'S AV DRAWINGS CAN BE PROVIDED UPON REQUEST. ALL POWER, DATA, COPPER WIRE FOR TELECOIL LOOP SYSTEM, AND A/V CONDUIT TO BE BY ELECTRICAL CONTRACTOR.

- USB AND POWER OUTLET
- DOUBLE POWER OUTLET
- QUAD POWER OUTLET
- INTEGRATED FLOOR OUTLET AND AV INPUT; 4 INTEGRATED POWER OUTLETS BASIS OF DESIGN: FSR FL-500P-4-B
- P — HARDWIRED POWER LOCATION: *NOTE ELECTRICAL CONTRACTOR TO SCHEDULE COORDINATION MEETING WITH ARCHITECT TO VERIFY HARDWIRE LOCATION FOR POWER INTEGRATED CASEWORK/FURNITURE
- LCP — LIGHTING CONTROL PANEL
- LIGHTING SWITCH
- 4D — ETHERNET DATA OUTLET
- HDMI — HDMI DATA OUTLET
- (ELEV.) (PLAN) — WALL MOUNTED DIGITAL CLOCK:
- (ELEV.) (PLAN) — IP PHONE:

A/V FIXTURES - COORDINATE WITH OWNER'S A/V CONTRACTOR

THIS DRAWING SHOWN FOR ARCHITECTURAL COORDINATION PURPOSES ONLY. SEE ELECTRICAL DRAWINGS. OWNER'S AV DRAWINGS CAN BE PROVIDED UPON REQUEST. ALL POWER, DATA, COPPER WIRE FOR TELECOIL LOOP SYSTEM, AND A/V CONDUIT TO BE BY ELECTRICAL CONTRACTOR.

PROJECTORS AND DISPLAYS

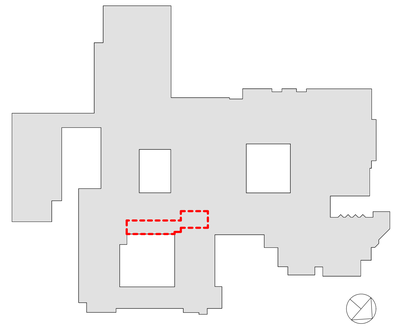
- FP — **WALL-MOUNTED LCD DISPLAY (BY OWNER):** BASIS OF DESIGN: SHARP, & CHIEF MANUFACTURING. PROVIDE BLOCKING.

SPEAKERS

- S2 — **CEILING-RECESSED AUDIO SPEAKER (BY OWNER):** BASIS OF DESIGN: COMMUNITY D6 - WHITE. PROVIDE BLOCKING.
- L — **CEILING-MOUNTED LINEAR ARRAY SPEAKER (BY OWNER):** BASIS OF DESIGN: INNOVEX FLEX FOCUS FF-V2.6 PROVIDE BLOCKING.
- (ELEV.) (PLAN) — **WALL MOUNTED SPEAKER (BY OWNER):** BASIS OF DESIGN: INNOVEX MICRO - FOCUS 2.1. PROVIDE BLOCKING.(SEE INTERIOR ELEVATIONS AND RCP)

ACCESSORIES

- (RCP) (PLAN) — **AV EQUIPMENT CEILING RACK (BY OWNER) :** BASIS OF DESIGN: ATLAS CR222-NR. PROVIDE BLOCKING.(SEE INTERIOR ELEVATIONS AND RCP)
- (ELEV.) (PLAN) — **WALL MOUNTED DIGITAL CLOCK:** BASIS OF DESIGN: ATLAS IED IP DUAL SIDED LCD WITH SPEAKERS PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN)
- (ELEV.) (PLAN) — **IP PHONE:** BASIS OF DESIGN: CISCO. PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN)
- (ELEV.) (PLAN) — **TOUCH CONTROL PANEL (BY OWNER)** EXTRON MLC PLUS 100. (SEE INTERIOR ELEVATIONS AND POWER & TECH PLAN)
- **TELECOIL LOOP :** BY ELECTRICAL CONTRACTOR. AUDIO INDUCTION LOOP AIDS ASSISTIVE LISTENING TECHNOLOGY. CONSISTS OF PHYSICAL CABLE LOOPS PLACED AROUND DESIGNATED SPACES. (SEE ELECTRICAL DRAWINGS)



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1" = 100'

Revision Schedule

No.	Description	Date
1	SED SUBMISSION	09/15/2020
3	ISSUED FOR BID	01/19/2021
4	BID ADDENDUM #1	01/29/2021

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P.O. Box 1020
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978-443-7871

SED #: 6618-0001-0005-032

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

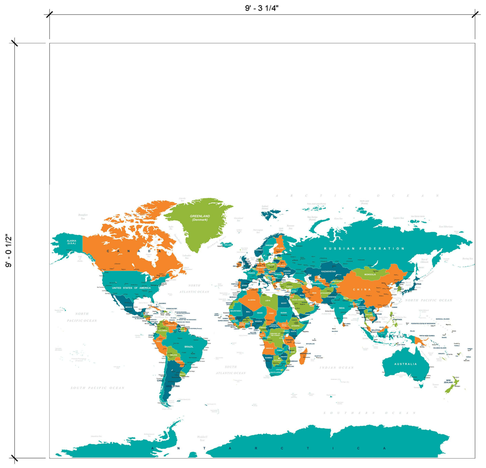
1 Parsons Street, Rye, New York 10580

THIRD FLOOR LEARNING COMMUNITY POWER AND TECHNOLOGY PLAN

PROJECT 3

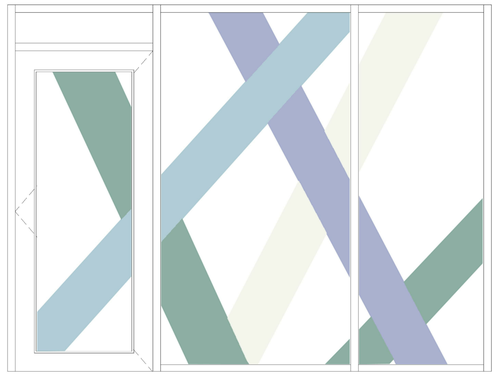
SEAL & SIGNATURE

DATE: 09/02/20
PROJECT No: 9200
DRAWING BY: Author
CHK BY: Checker
DWG No: A2-517



WLC-2

PROJECT 3 4



FLM-1

PROJECT 3 4



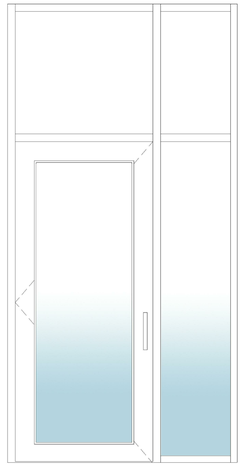
FLM-2

PROJECT 3 4



WLC-3

PROJECT 3 4



FLM-3

PROJECT 3 4



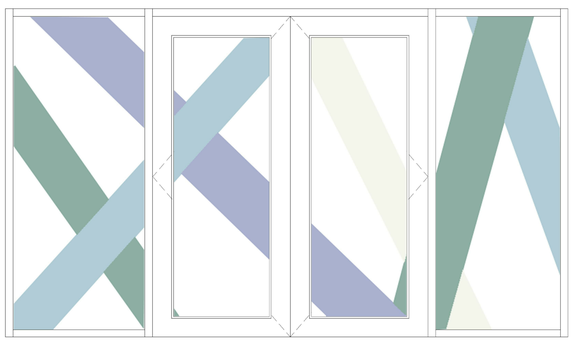
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PROJECT 3 4



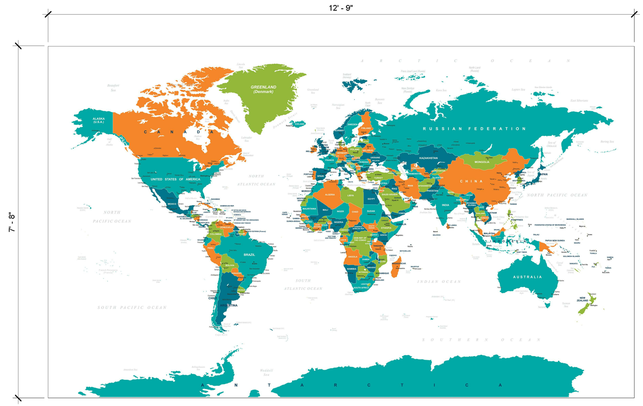
WLC-4

PROJECT 3 4



FLM-5

PROJECT 3 4



WLC-5

PROJECT 2 4

Revision Schedule

No.	Description	Date
3	ISSUED FOR BID	01/19/2021
4	BID ADDENDUM #1	01/29/2021

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SED #: 6618-0001-0005-032

PROJECT

Rye City School District

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Rye High School & Middle School

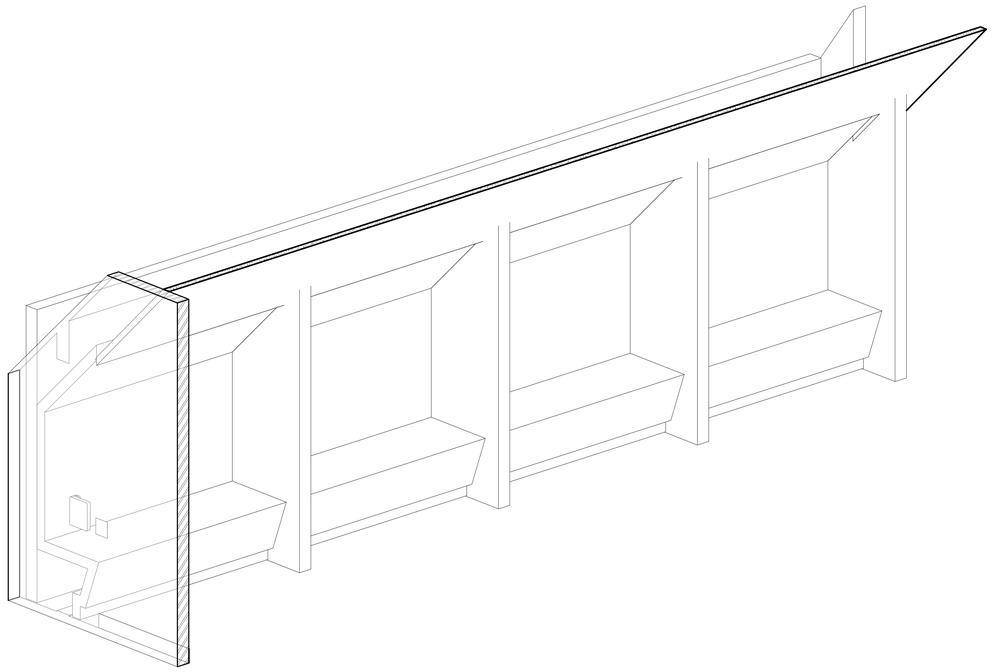
1 Parsons Street, Rye, New York 10580

WALL GRAPHICS AND GLAZING TYPES

4 PROJECT 2 & 3

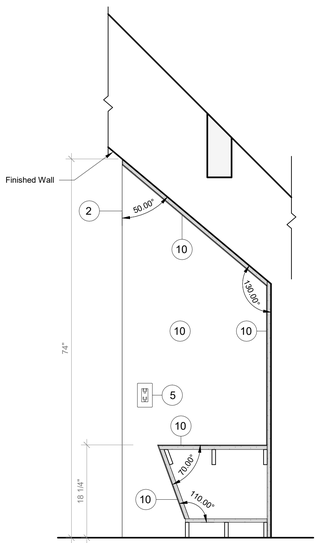
SEAL & SIGNATURE

DATE: 12/14/20
PROJECT No: 9200
DRAWING BY: Author
CHK BY: Checker
DWG No:
A2-730



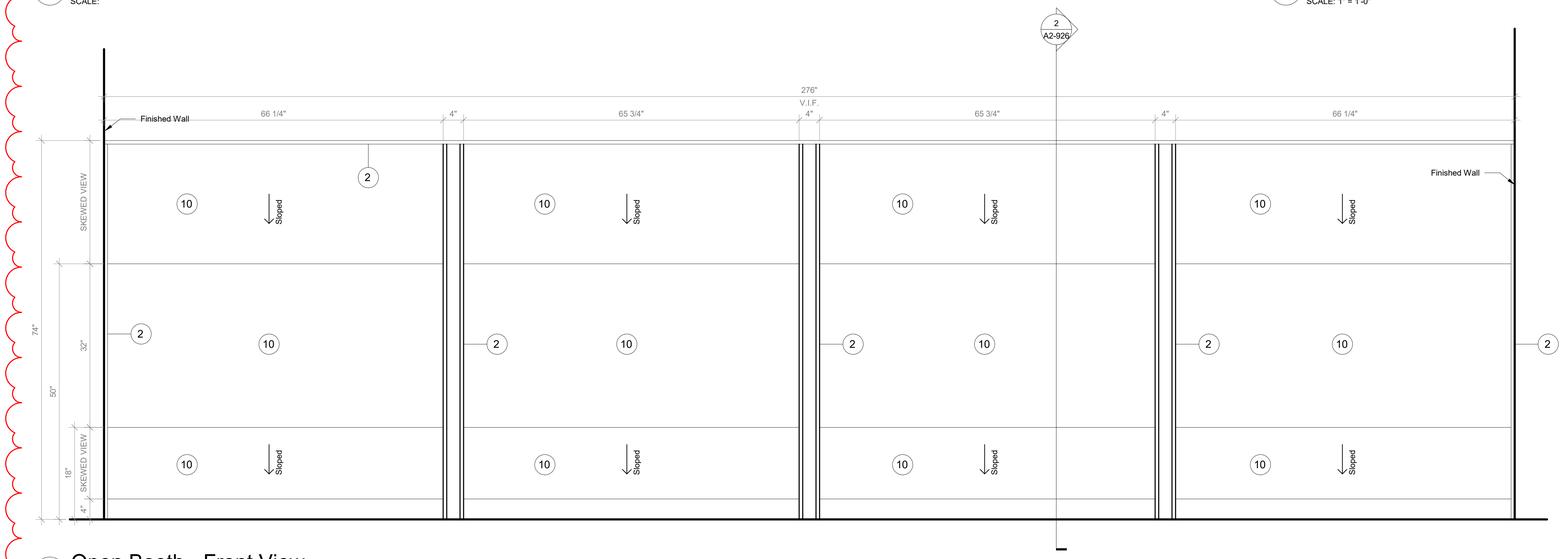
1 Open Booth - Axon

SCALE:



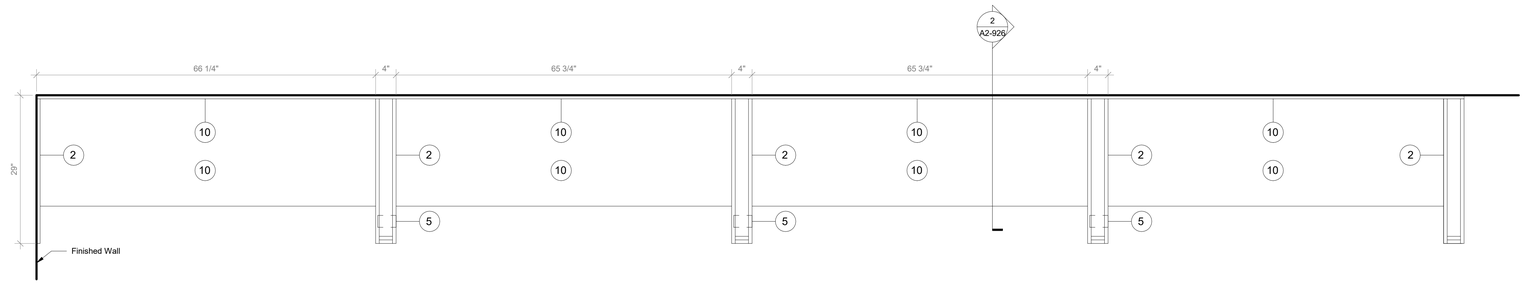
2 Open Booth - Section A

SCALE: 1" = 1'-0"



3 Open Booth - Front View

SCALE: 1" = 1'-0"



4 Open Booth - Floor Plan

SCALE: 1" = 1'-0"

NOTE:

BY OWNER. THIS DRAWING IS FOR COORDINATION PURPOSES ONLY

NOTE:

GC TO PROVIDE BLOCKING FOR OWNER-SUPPLIED CASEGOODS. DRAWINGS IN 900 SERIES AND ON THIS SHEET PROVIDED IN GC DRAWING SET FOR COORDINATION PURPOSES ONLY.

GENERAL NOTES:

1. CASEGOODS CONTRACTOR TO PROVIDE STAMPED SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO BUILDING ANY PART OF CUSTOM FURNISHINGS.
2. FOR ALL OWNER-SUPPLIED CASEGOODS, COORDINATE WITH ARCHITECT TO OBTAIN TEMPLATES AND HOLD DIMENSIONS AS NOTED FOR EACH ITEM

CASEGOODS AND CUSTOM FURNISHINGS FINISH NOTES:

1. SS-2 - CORIAN SOLID SURFACE AT COUNTERTOP AND BACKSPLASH; COLOR: SILVER BIRCH.
2. PLYFF-1 - 18mm PRE-FINISHED BALTIC BIRCH PLYWOOD WITH CLEAR, NON-YELLOWING UV FINISH; EXPOSED EDGES, SANDED SMOOTH AND CLEAR FINISHED. PROVIDE SAMPLE TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
3. PLYFF-2 - 18mm PRE-FINISHED BALTIC BIRCH PLYWOOD WITH WILSONART 1573 MARKERBOARD FROSTY WHITE PLASTIC LAMINATE ON TAG SIDE; CLEAR, NON-YELLOWING UV FINISH ON OPPOSITE SIDE; EXPOSED EDGES, SANDED SMOOTH AND CLEAR FINISHED. PROVIDE SAMPLE TO ARCHITECT FOR APPROVAL.
4. 1" DIA. CUTOUT DOOR FINGER PULL.
5. SURFACE-RECESSED OUTLET: ECA COVE LG DUPLEX WITH DAISY CHAIN; MODEL COV-LG-2U-4-1-S.
6. UNDERMOUNT OUTLET: ECA SANDBAR WITH DATA JACKS AND DAISY CHAIN; MODEL 84 SBS-S-1111.
7. CORD DROP CUTOUT.
8. VERTICAL SUPPORT AND PIPE HINGE: 1 1/16" OD ALUMINUM TUBING; BRUSHED CLEAR ANODIZED.
9. METALLIC PERFORATED PANEL
10. LINOLEUM BY FORBO IN SHEET. COLOR TBD.
11. WM2 - LED TAPE LIGHTING, SEE CEILING FIXTURE LEGEND.

Revision Schedule

No.	Description	Date
1	SED SUBMISSION	09/15/2020
3	ISSUED FOR BID	01/19/2021
4	BID ADDENDUM #1	01/29/2021

Geddis Architects

Architecture. Planning. Interiors

71 Old Post Road
P.O. Box 1020
Southport, CT 06890
(203) 256-8700

Fielding International

Transforming Education by Design

259 Water Street Suite 1L
Warren , RI 02885 USA
+1 401-289-2789

BARILE GALLAGHER & ASSOCIATES

CONSULTING ENGINEERS

39 MARBLE AVENUE PLEASANTVILLE, NY 10570
914.328.6060 General@BGA-Eng.com www.BGA-Eng.com

Construction Manager
SAVIN ENGINEERS, P.C.
3 Campus Drive
Pleasantville, NY 10570
914-769-3200

Structural Engineer
ODEH ENGINEERS
1223 Mineral Spring Ave
North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
518-463-4400

Roof Consultant
WATSKY ASSOCIATES INC.
20 Madison Ave
Valhalla, NY 10595
914-948-3450

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

AV Consultant
CAVANAUGH TOCCI
327 F Boston Post Road
Sudbury, MA 01776-3027
978-443-7871

SED #: 6618-0001-0005-032

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

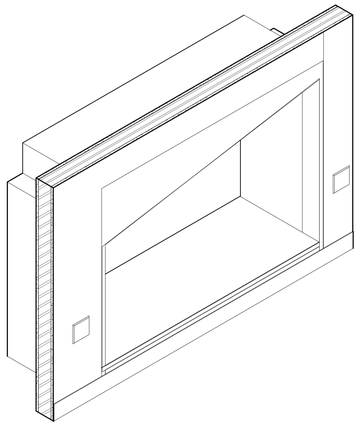
1 Parsons Street, Rye, New York 10580

FURNITURE DETAIL - THIRD FLOOR - OPEN BOOTH SEATING

PROJECT 3

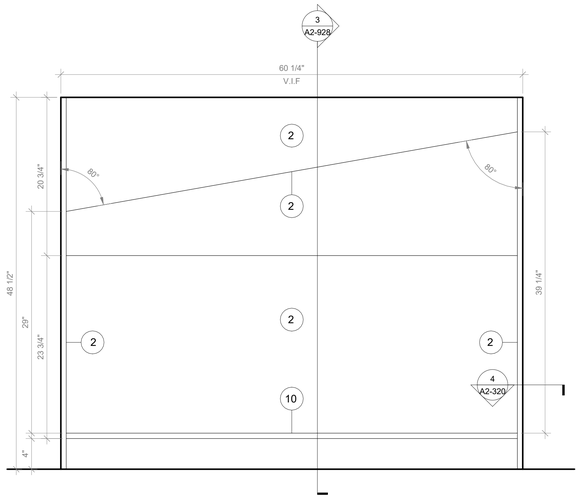
SEAL & SIGNATURE

DATE: 05/06/20
PROJECT No: 9200
DRAWING BY: Author
CHK BY: Checker
DWG No: A2-926



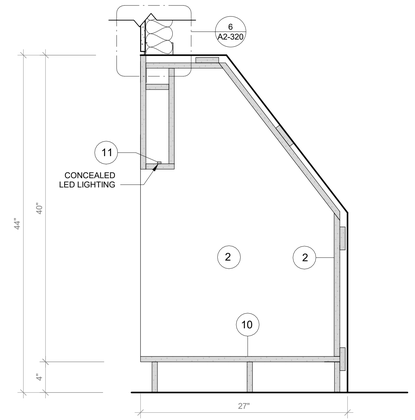
2 Cave Space Type A - Axon

SCALE:



1 Cave Space Type A - Front View

SCALE: 1 1/2" = 1'-0"



3 Cave Space - Typ. Section

SCALE: 1 1/2" = 1'-0"

6 Cave Space Type B - Axon

SCALE:

7 Cave Space Type B - Front View

SCALE: 1 1/2" = 1'-0"

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Construction Manager
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AV Consultant
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SED #: 6618-0001-0005-032

PROJECT

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Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

FURNITURE DETAIL- CAVE SPACE

PROJECT 3

SEAL & SIGNATURE

DATE: 05/06/20
PROJECT No: 9200
DRAWING BY: Author
CHK BY: Checker
DWG No:
A2-928

SCHEDULE OF ENERGY RECOVERY UNITS

MARK	SERVICE	LOCATION	OUTSIDE AIR CFM MIN/MAX	MODEL No.	SUPPLY FAN DATA: CFM	EXT. S.P. IN WG.	TYPE	MOTOR HP.	RETURN–EXHAUST FAN: CFM MIN/MAX	EXT. S.P. IN WG	TYPE	MOTOR HP	HEAT TRANSFER: SIZE	SUMMER EAT 68°F	SUMMER LAT 68°F	WINTER EAT 68°F	WINTER LAT 68°F	MOTOR H.P.	COOLING COIL DATA (2)(4): CONDENSING UNIT	TOTAL/SEN MBH	No. OF ROWS	FACE VEL. F.P.M.	ENT. AIR TEMP. D.B./W.B.	HEATING COIL DATA (3)(4): MARK	TOT. CAP. MBH	MIN. COIL FACE AREA	ENT. AIR TEMP. °F	LVG. AIR TEMP. °F	G.P.M.	PRE & AFTER-FILTER DATA: NO.	SIZE	TYPE	ELECTRICAL DATA: MCA	MOCP	ELECTRIC SERVICE	ERU DIMENSION & WTS.: L	W	H	WTS–#	GENERAL REMARKS
ERU 1	HS GYM	ROOF	3300/6600	(1) ERP–E–07	6600	2.0	PLENUM	10	3300/6600	2.0	PLENUM	7.5	03	80.1	67.2	53.4	43.0	0.25	SEE CU 1	–	–	–	–	HC 1	360	–	40	90	40	–	–	2" MERV 10 4" MERV 13	32	35	460/3/60	216	93	86	5500	REFER TO (5)(6)
ERU 2	HS GYM	ROOF	3300/6600	(1) ERP–E–07	6600	2.0	PLENUM	10	3300/6600	2.0	PLENUM	7.5	03	80.1	67.2	53.4	43.0	0.25	SEE CU 2	–	–	–	–	HC 2	360	–	40	90	40	–	–	2" MERV 10 4" MERV 13	32	35	460/3/60	216	93	86	5500	REFER TO (5)(6)
ERU 3	HS CONF. RM. TOILET RM.	CEILING	600	(1) U–ERV600	600	2.0	CENTRIFUGAL	–	600	2.0	CENTRIFUGAL	–	–	79.5	66.9	53.4	42.5	–	SEE CU 3	–	–	–	–	HC 3	–	–	–	–	–	2	5"X40"X2"	2" MERV 13	10.6	15	208/1/60	56	34	12	129	REFER TO (5)(7)(9)
ERU 4	HS NURSE/OFFICE	CEILING	400	(1) U–ERV600	400	2.0	CENTRIFUGAL	–	325	2.0	CENTRIFUGAL	–	–	78.9	66.1	57.4	45.3	–	SEE CU 4A	–	–	–	–	HC 4	–	–	–	–	–	2	5"X40"X2"	↓	10.6	15	208/1/60	56	34	12	129	REFER TO (5)(7)(9)
ERU 5	HS OFFICES	ROOF	200	(1) U–ERV600	200	2.0	CENTRIFUGAL	–	200	2.0	CENTRIFUGAL	–	–	77.6	65.1	61.8	48.1	–		–	–	–	–	HC 5	–	–	–	–	–	2	5"X40"X2"		10.6	15	208/1/60	56	34	12	129	REFER TO (5)(7)
ERU 6	MS CLASSROOMS	ROOF	3300/6000	(1) ERP–E–07	6600	2.0	PLENUM	10	3300/6600	2.0	PLENUM	7.5	03	80.3	67.4	53.3	42.7	0.25	SEE CU 6	–	–	–	–	HC 6	360	–	40	90	40	–	–	2" MERV 10 4" MERV 13	32	35	460/3/60	216	93	86	5500	REFER TO (5)(6)
ERU 7	MS SECURITY	CEILING	50	(1) H150–TRC	50	0.75	CENTRIFUGAL	–	50	0.75	CENTRIFUGAL	–	–	77.6	65.1	61.8	48.1	–		–	–	–	–	HC 7	–	–	–	–	–	2	–	2" MERV 13	1.5	15	120/1/60	24	22	12	50	REFER TO (5)(6)
ERU 8	HS CLASSROOMS	CEILING	1500	(1) U–ERV1800	1500	2.0	CENTRIFUGAL	–	1500	2.0	CENTRIFUGAL	–	–	79.6	66.5	55.3	43.9	–	SEE CU 8	–	–	–	–	HC 8	–	–	–	–	–	6	5"X40"X2"	↓	19.2	25	208/3/60	56	34	36	387	REFER TO (5)(6)
ERU 9	HS TOILET RMS	ROOF	400	(1) U–ERV600	400	2.0	CENTRIFUGAL	–	400	2.0	CENTRIFUGAL	–	–	78.9	66.1	57.4	45.3	–		–	–	–	–		–	–	–	–	–	2	5"X40"X2"		10.6	15	208/1/60	56	34	12	129	REFER TO (5)(7)
ERU 10	HS SECURITY	CEILING	50	(1) PE7.15ERV	50	0.75	CENTRIFUGAL	–	50	0.75	CENTRIFUGAL	–	–	77.6	65.1	61.8	48.1	–		–	–	–	–		–	–	–	–	–	2	5"X40"X2"	2" MERV 13	1.5	15	120/1/60	24	22	12	50	REFER TO (5)(6)
ERU EXIST	MS GYM	MER	11,000	ERV–E–09	11000	2.0	PLENUM	–	11000	2.0	PLENUM	–	–	–	–	–	–	–	SEE CU 5	–	–	–	–		–	–	–	–	–	–	–		–	–	208/3/60	–	–	–	–	REFER TO (5)(6)

NOTES
1. AS MANUFACTURED BY "ANNEXAIR."
2. AS MANUFACTURED BY "ENERGY WALL."
3. AS MANUFACTURED BY "GREENTEK."
4. BASED ON A.R.I. CERTIFIED COIL SELECTIONS.
5. BASED ON HOT WATER SUPPLY TEMPERATURE OF 160°F AND RETURN TEMPERATURE OF 140°F.
6. DESIGN AIR CONDITIONS: SUMMER OA (95°F/75°F) RA (75°F/63°F) WINTER OA (6°F) RA (70°F/53°F)
7. INSTALL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
8. PROVIDE UNIT WITH ENAMELED FINISH, INTEGRAL DX COIL SECTION, EXHAUST/DEFROST CONTROLS WITH INSULATED MOTORIZED OAI/EXHAUST DAMPERS, INTAKE LOUVER/EXHAUST HOOD, DAMPER POWER TERMINALS, LOW TEMPERATURE LIMIT CONTROLS, 100% ECONOMIZER CONTROLS, DIRTY FILTER CONTACT, DAMPER END SWITCHES, DISCONNECT SWITCHES, VFD'S, MERV 8 INITIAL AND MERV 13 FINAL FILTERS, DUCT MOUNTED HOT WATER COILS. LOCATE UNITS ON VIBRATION TYPE ROOF CURB SUPPORTS WITH ALL MOUNTING HARDWARE.
9. PROVIDE UNIT WITH ENAMELED FINISH, INTEGRAL DX COIL, RE–CIRCULATION DEFROST CONTROLS, DUCT MOUNTED MOTORIZED OAI/EXHAUST DAMPERS, LOW TEMPERATURE LIMIT CONTROLS, DIRTY FILTER CONTACT, FIELD MOUNTED DISCONNECT SWITCH, VARIABLE SPEED CONTROL, MERV 13 FILTERS AND DUCT MOUNTED HOT WATER COILS. SUSPEND UNIT FROM STRUCTURE ABOVE. PROVIDE ALL NECESSARY MOUNTING HARDWARE, SUPPORTS AND SPRING VIBRATION ISOLATORS.
10. PROVIDE UNIT WITH ENAMELED FINISH, DEFROST CONTROLS, DUCT MOUNTED MOTORIZED OAI/EXHAUST DAMPERS, MERV 10 FILTER BOX, DIRTY FILTER CONTACT, FIELD MOUNTED DISCONNECT SWITCH, VARIABLE SPEED CONTROL AND PSC MOTORS. SUSPEND UNIT FROM STRUCTURE ABOVE. PROVIDE ALL NECESSARY MOUNTING HARDWARE, SUPPORTS AND SPRING VIBRATION ISOLATORS.
11. PROVIDE FLOOR, WALL OR CEILING MOUNTED CONDENSATE PUMP, LITTLE GIANT MODEL VCL–24ULS, 1/18HP, 120V/1PH/60HZ, 148 WATTS, WITH AUTOMATIC HEAT PUMP SHUT DOWN ON OVERFLOW OR PUMP FAILURE.

SCHEDULE OF PACKAGED ROOFTOP RTU UNIT

MARK	SERVICE	MODEL NUMBER (1)	OAI CFM MAX./MIN.	FAN DATA: CFM	EXT. S.P. IN H_2O	FAN RPM	MOTOR HP	GAS HEATING DATA (3): INPUT MBH	OUTPUT MBH	ENT. AIR TEMP. DB °F	LVG. AIR TEMP. DB °F	COOLING DATA (3)(4): TOTAL CAP. MBH	SENSIBLE CAP. MBH	ENT. AIR TEMP. DB/WB °F	LVG. AIR TEMP. DB/WB °F	CONDENSER DATA: REFRIG.	ENT. AIR TEMP. DB °F	HP	COMPRESSOR DATA: QTY.	R.L.A. (EACH)	L.R.A. (EACH)	FILTER DATA: QTY.	SIZE (IN.)	TYPE	PHYSICAL DATA: WEIGHT (LBS.)	LxWxH (IN.)	ELECTRICAL DATA: FLA	MCA	MOP	SERVICE	REMARKS
RTU 1	CAFETERIA	ZWT15S30L2TCE44PA3	6000/2200	6000	1.6	1149	(1)5.0	300	240	60	97	188	136	80/67	58/57	R410A	95	(4)1/3	–	–	–	2 4	20X24X4 24X24X4	MERV 8 MERV 13	2,999	181X92X53	–	87	100	230/3/60	REFER TO (2)(3)(6)
RTU 2	CAFETERIA	ZWT15S30L2TCE44PA3	6000/2200	6000	1.6	1149	(1)5.0	300	240	60	97	188	136	80/67	58/57	R410A	95	(4)1/3	–	–	–	2 4	20X24X4 24X24X4	MERV 8 MERV 13	2,999	181X92X53	–	87	100	230/3/60	REFER TO (2)(3)(6)

NOTES
1. AS MANUFACTURED BY "TEMPMASTER".
2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
3. DESIGN AIR CONDITIONS: SUMMER: OA (94°F/75°F) RA (77°F/65°F); WINTER: OA (5°F/3°F) RA (70°F/55°F).
4. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R–410A, EER 12.2,
5. PROVIDE ROOFTOP UNIT WITH FOUR STAGE COOLING, ENAMELED FINISH (COLOR TO BE DETERMINED BY ARCHITECT), MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, HOT GAS BY–PASS, DIRTY FILTER CONTACTS, BLOWER SHEAVE AND BELT FOR HIGH STATIC USE, DISCONNECT SWITCH, VFD'S, POWERED CONVENIENCE OUTLET, PHASE MONITOR, LOW AMBIENT CONTROLS, 4" THICK MERV 13 PLEATED FILTERS, STAINLESS STEEL GAS FIRED HEATING SECTION, STAINLESS STEEL DRAIN PAN, HINGED ACCESS PANELS, GAS PIPING KIT WITH VALVES AND FITTINGS FOR BOTTOM CONNECTION AND BACNET COMPARABLE AUTOMATED CONTROLS. PROVIDE FIELD INSTALLED FULL ECONOMIZER/POWER EXHAUST, INTAKE AND EXHAUST HOODS AND DUAL ENTHALPY HUMIDITY SENSORS.
6. POWERED EXHAUST TO BE FIELD SUPPLIED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.

SCHEDULE OF EXHAUST FANS

MARK	BUILDING	SERVICE	LOCATION	TYPE	MODEL No. (1)	CFM	TOT. S.P. IN H_2O	HP / AMPS	ELECTRIC SERVICE	REMARKS
EF 1, EF 2, EF 3	HIGH SCHOOL MIDDLE SCHOOL	ELECTRIC ROOM –	CEILING	CENTRIFUGAL	SP–A510	300	0.25	– / 1.40	120/1/60	REFER TO (2)(3)
EF 4	HIGH SCHOOL	ELEVATOR SHAFT	WALL	CENTRIFUGAL	CUE–080–VG	300	0.25	1/10 / –	120/1/60	REFER TO (2)(4)
EF 5	HIGH SCHOOL	TOILET RM –	ROOF	CENTRIFUGAL	G–095–DGEX–QD	250	0.25	1/8 / –	120/1/60	REFER TO (2)(4)
								/		

NOTES
1. AS MANUFACTURED BY "GREENHECK".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE FACTORY MOUNTED SPEED CONTROLLER AND DISCONNECT, ALUMINUM GRILLE, BACKDRAFT DAMPER, VIBRATION ISOLATORS AND MOUNTING HARDWARE.
4. PROVIDE FAN WITH VARIABLE SPEED DRIVE ON MOTOR, UL705 RATED, NEMA 3R DISCONNECT SWITCH, GALVANIZED SIDE WALL MOUNTING SUPPORTS, ALUMINUM WALL GRILLE.

SCHEDULE OF DIRECT EXPANSION COILS

MARK	BUILDING	SERVICE	GENERAL DATA / CAPACITY: COOLING TOTAL (MBH)	COOLING SENS. (MBH)	CFM	ENT. AIR TEMP DB/WB	SUCT. TEMP.°F	REMARKS
DC 1A, DC 1B	HIGH SCHOOL	CU 10, AH 1 (EXIST) AUXILIARY GYM	192	150	4500	78°F / 65°F	45	REFER TO (1)(2)(3)(4)
DC 2A, DC 2B	HIGH SCHOOL	CU 12, AH 2 (EXIST) AUXILIARY GYM	192	150	4500	78°F / 65°F	45	REFER TO (1)(2)(3)(4)
DC 7	MIDDLE SCHOOL	CU 9, AH 3 (EXIST) MS GYM	233	199	8000	78°F / 65°F	45	REFER TO (1)(2)(3)(4)

NOTES
1. AS MANUFACTURED BY "NATIONWIDE COIL.".
2. REFRIGERANT R–410A.
3. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
4. BASED ON A.R.I. CERTIFIED COIL SELECTIONS

SCHEDULE OF OUTDOOR VRF CONDENSING UNITS

MARK	BUILDING	SERVICE	GENERAL DATA: MODEL No. (1)	CAPACITY: COOL/HEAT (MBH)	PHYSICAL DATA: UNIT WEIGHT (POUNDS)	L	W	H	ELECTRICAL SUPPLY: SERVICE	MCA	MOCP	EER/SEER	REMARKS
CU 1	HIGH SCHOOL	ERU 1 GYM	ARUM241DTES	233/243	800	49"	30"	67"	460/3/60	41.4	50	12.4/25.9	REFER TO (2)(3)(5)(7)
CU 2	HIGH SCHOOL	ERU 2 GYM	ARUM241DTES	233/243	800	49"	30"	67"	460/3/60	41.4	50	12.4/25.9	REFER TO (2)(3)(5)(7)
CU 3	HIGH SCHOOL	ERU 3 CONF.RM.	ARUN038GSS4	38/42	250	38"	16"	55"	208/1/60	25	40	10.7/17.0	REFER TO (2)(3)(5)(6)(7)
CU 4A	HIGH SCHOOL	HP 2 NURSE/OFFICE	ARUN038GSS4	38/42	250	38"	16"	55"	208/1/60	25	40	10.7/17.0	REFER TO (2)(3)(5)(6)
CU 4	HIGH SCHOOL	ERU 4 NURSE/OFFICE	ARUN024GSS4	24/27	250	38"	16"	33"	208/1/60	19.6	30	10.7/17.0	REFER TO (2)(3)(5)(6)(7)
CU 5	MIDDLE SCHOOL	ERU EXIST GYM	ARUM241DTES	233/243	800	49"	30"	67"	460/3/60	41.4	50	12.4/25.9	REFER TO (2)(3)(5)(7)
CU 6	MIDDLE SCHOOL	ERU 6 CLASSROOMS	ARUM241DTES	233/243	800	49"	30"	67"	460/3/60	41.4	50	12.4/25.9	REFER TO (2)(3)(5)(7)
CU 7	MIDDLE SCHOOL	HP 6 OFFICES	ARUN048GSS4	48/54	300	38"	16"	55"	208/1/60	30	50	10.7/17.0	REFER TO (2)(3)(5)(6)
CU 8	HIGH SCHOOL	ERU 8 CLASSROOMS	ARUM096DTES	96/108	600	49"	30"	67"	460/3/60	16.4	25	12.4/25.9	REFER TO (2)(3)(5)(6)(7)
CU 9	HIGH SCHOOL	HP 4 CLASSROOMS	ARUM096DTES	96/108	600	49"	30"	67"	460/3/60	16.4	25	12.4/25.9	REFER TO (2)(3)(5)(6)(7)
CU 10	HIGH SCHOOL	AH 1 (EXIST) AUXILIARY GYM	ARUM192DTES	192/216	800	49"	30"	67"	460/3/60	35.7	50	12.4/25.9	REFER TO (2)(3)(5)(6)(7)
CU 11	HIGH SCHOOL	HP 8 SECURITY OFFICE	ARUN024GSS4	24/27	250	38"	16"	33"	208/1/60	19.6	30	10.7/17.0	REFER TO (2)(3)(5)(6)
CU 12	HIGH SCHOOL	AH 2 (EXIST) AUXILIARY GYM	ARUM192DTES	192/216	800	49"	30"	67"	460/3/60	35.7	50	12.4/25.9	REFER TO (2)(3)(5)(6)(7)
CU 13	MIDDLE SCHOOL	HP 7 CLASSROOMS	ARUM168DTES	168/189	700	49"	30"	67"	460/3/60	28.5	35	12.4/25.9	REFER TO (2)(3)(5)(6)
CU 14	HIGH SCHOOL	HP 1 CLASSROOMS	ARUM072DTES	72/81	500	37"	30"	67"	460/3/60	12.8	20	12.4/25.9	REFER TO (2)(3)(5)(6)
CU 15	MIDDLE SCHOOL	HP 8 SECURITY OFFICE	ARUN024GSS4	24/27	250	38"	16"	33"	208/1/60	19.6	30	10.7/17.0	REFER TO (2)(3)(5)(6)

NOTES
1. AS MANUFACTURED BY "LG ELECTRONICS.".
2. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R–410A.
3. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
4. DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.
5. UNIT SHALL BE CONTROLLED VIA MANUFACTURER'S DDC NETWORK CONTROLLER TO INDOOR HARDWIRED CONTROLLER.
6. PROVIDE DISCONNECT SWITCH FOR EACH MODULE, ROOF CURB EQUIPMENT SUPPORT RAILS, OIL TRAPS, FRAME CONNECTOR WHERE REQUIRED, AIR GUIDE, LOW AMBIENT BAFFLE KIT, BASE PAN HEATER, PIPING AND ASSOCIATED APPURTENANCES. UNIT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
7. PROVIDE ELECTRONIC EXPANSION VALVE KIT AND AHU/ERU COMMUNICATION CONTROL KIT (ONE FOR EACH DX COIL PROVIDED). ALL UNITS MUST HAVE BACNET COMMUNICATIONS TIED INTO BMS SYSTEM CONTROLS. COMMUNICATION CONTROL KIT REQUIRES 208/1/60 POWER REQUIREMENTS

SCHEDULE OF REGISTERS AND DIFFUSERS

MARK	TYPE	SERVICE	MODEL No. (1)	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	TYPE	REMARKS
A	CEILING DIFFUSER	SUPPLY	620	DOUBLE DEFLECTION	OPPOSED BLADE	PER ARCH.	SURFACE	REFER TO (2)(3)(4)
B	CEILING REGISTER	EXHAUST	735FF	–	OPPOSED BLADE	PER ARCH.	SURFACE	REFER TO (2)(3)(5)
C	SIDEWALL REGISTER	SUPPLY	620	DOUBLE DEFLECTION	OPPOSED BLADE	PER ARCH.	LAY–IN	REFER TO (2)(3)(4)
D	SIDEWALL REGISTER	EXHAUST	735FF	–	OPPOSED BLADE	PER ARCH.	SURFACE	REFER TO (2)(3)(5)
E	CEILING GRILLE	TRANSFER	735FF	–	OPPOSED BLADE	PER ARCH.	SURFACE	REFER TO (2)(3)(6)
X	EXISTING REGISTER/GRILLE							

NOTES
1. AS MANUFACTURED BY "PRICE".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES AND DIMENSIONS WITH ARCHITECT.

(4) SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 500 fpm)							(5) RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)							
50 TO 99	100 TO 299	300 TO 499	500 TO 799	800 TO 1199	1200 TO 1499	1500 TO 1999	50 TO 149	150 TO 249	250 TO 399	400 TO 599	600 TO 799	800 TO 1099	1100 TO 1199	1200 TO 2399
6x6	9x9	12x12	15x15	18x18	21X21	24X24	6x6	8X8	10X10	12X12	14X14	16X16	18X18	24X24

SCHEDULE OF INDOOR VRF HEAT PUMP UNITS

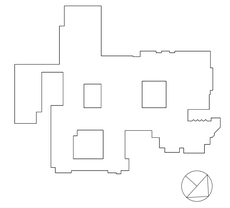
MARK	SERVICE	INDOOR UNIT INFORMATION: GENERAL DATA / MODEL No. (1)	SUPPLY FAN DATA: CFM LOW	UNIT MCA	ELECTRIC SERVICE	TOTAL CAPACITY: COOLING/HEATING kBTU/HR	DIMENSION/WEIGHT: W (IN.)	D (IN.)	H (IN.)	LBS	REMARKS
HP 3	SEE PLANS	ARNU093TRD4	265	0.2	208/1/60	9.6/10.9	24	24	10	40	REFER TO (2)(3)(4)
HP 1	SEE PLANS	ARNU123TQD4	300	0.2	208/1/60	12.3/13.6	24	24	10	40	
HP 5	SEE PLANS	ARNU183TQD4	390	0.2	208/1/60	19.1/21.5	24	24	11	70	
HP 3	SEE PLANS	ARNU093TUD4	300	0.2	208/1/60	9.6/10.9	34	18	6	50	
HP 1	SEE PLANS	ARNU123TUD4	325	0.2	208/1/60	12.3/13.6	34	18	6	50	
HP 5	SEE PLANS	ARNU183TTD4	425	0.3	208/1/60	19.1/21.5	47	18	6	60	
HP 6	SEE PLANS	ARNU483NKA4	1400	1.8	208/1/60	48.0/54.0	25	22	55	150	(2)(3)(4)(5)

NOTES
1. AS MANUFACTURED BY "LG ELECTRONICS".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R–410A, EER 12.4/SEER 25.9/HSPF10.3.
4. PROVIDE MOUNTING HARDWARE, DISCONNECT SWITCH AND HARDWIRED REMOTE WALL MOUNTED PREMIUM CONTROLLER/THERMOSTAT, DRY CONTACTS FOR BACNet BMS CONTROLS, ULTRA LONG LIFE PLASMA FILTER KIT, VIBRATION ISOLATORS, SPACER FOR CEILING HEIGHT ADJUSTMENT, DECORATIVE CEILING COVER, INLET GRILLE KIT, DRAFT AIR FLOW CONTROLS, INTEGRAL CONDENSATE PUMP (FOR CASSETTE UNITS).
5. PROVIDE FLOOR MOUNTED CONDENSATE PUMP LITTLE GIANT MODEL VCL–24ULS, 1/18HP, 120V/1PH/60HZ, 148 WATTS, WITH AUTOMATIC AHU SHUT DOWN ON OVERFLOW OR PUMP FAILURE.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

Revision Schedule

No.	Description	Date
1	SED Submission	09/15/2020
2	SED Submission Addendum#1	01/08/2021
3	ISSUED FOR BID	01/19/2021
4	BID ADDENDUM #1	01/29/2021



Geddis Architects
Architecture. Planning. Interiors
71 Old Post Road
P.O. Box 1020
Southport, CT 06890
(203) 256-8700

Fielding International
Transforming Education by Design
259 Water Street Suite 1L
Warren , RI 02885 USA
+1 401-289-2789

BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Construction Manager
SAVIN ENGINEERS, P.C.
3 Campus Drive
Pleasantville, NY 10570
914-769-3200

Structural Engineer
ODEH ENGINEERS
1223 Mineral Spring Ave
North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
518-463-4400

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

SED #: 6618-0001-0005-031

PROJECT
Rye City School District
555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School
1 Parsons Street, Rye, New York 10580

SCHEDULE
HIGH SCHOOL & MIDDLE SCHOOL

SEAL & SIGNATURE

DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: H2-301

SCHEDULE OF EXISTING AIR HANDLING UNIT

GENERAL DATA				FAN DATA				HEATING DATA (3)			COOLING DATA (3)(4)				CONDENSING UNIT		FILTER DATA			PHYSICAL DATA		ELECTRICAL DATA				REMARKS
MARK	SERVICE	MODEL NUMBER	OAI CFM MAX./MIN.	CFM	EXT. S.P IN H_2O	FAN RPM	MOTOR HP	TOTAL CAP. MBH	ENT. AIR TEMP. DB °F	LVG. AIR TEMP. DB °F	TOTAL CAP. MBH	SENSIBLE CAP. MBH	ENT. AIR TEMP. DB/WB °F	LVG. AIR TEMP. DB/WB °F	MARK	SERVICE	QTY.	SIZE (IN.)	TYPE	WEIGHT (LBS.)	LxWxH (IN.)	FLA	MCA	MOP	SERVICE	
AHU-1 (EXIST)	AUXILIARY GYM	–	4500 / 1800	4500	1.0	–	–	205	40	110	170	120	78/65	55/54	CU-1 (EXIST)	AUXILIARY GYM	–	–	MERV 13	–	–	–	–	–	208/3/60	REFER TO 2 5
AHU-2 (EXIST)	AUXILIARY GYM	–	4500 / 1800	4500	1.0	–	–	205	40	110	170	120	78/65	55/54	CU-2 (EXIST)	AUXILIARY GYM	–	–	MERV 13	–	–	–	–	–	208/3/60	2 5

NOTES
1. AS MANUFACTURED BY "CARRIER".
2. REFURBISH IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
3. DESIGN AIR CONDITIONS: SUMMER: OA (94°F/75°F) RA (77°F/65°F); WINTER: OA (5°F/3°F) RA (70°F/55°F).
4. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A, SEER 12.0,
5. REFURBISH EXISTING UNITS TO INCLUDE STEAM CLEANING OF EXISTING UNIT COILS, REPLACEMENT OF ALL FILTERS WITH MERV 13 FILTERS, AIR BALANCING OF EXISTING FANS AND AIR OUTLETS, PROVIDE NEW DUCT MOUNTED DX COILS IN EACH OF THE FOUR DISTRIBUTION MAINS, INSTALL VRF TYPE CONDENSING UNITS ON ROOF WITH CONNECTING REFRIGERANT PIPING AND CONTROLS FOR ASSOCIATED DX COILS.

SCHEDULE OF UNIT HEATER

MARK	MODEL No. (1)	CAPACITY DATA BTU/HR	EWT °F	LWT °F	GPM	MOTOR WATTS	ELECTRIC SERVICE	PHYSICAL DATA LxWxH	WEIGHT (LBS)	REMARKS
UH-A	HS-18	11725	160	140	1.0	9	120/1/60			REFER TO 1 2 3 4

NOTES
1. AS MANUFACTURED BY "STERLING".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. CAPACITIES BASED ON HIGH SPEED FAN SETTING AND HW 160°F/140°F
4. QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.

SCHEDULE OF CONVECTORS

MARK	MODEL No. (1)	MBH	GPM	PHYSICAL DATA D	L	H	WEIGHT	REMARKS
CONV-A	SF-A	3.5	1.0	4"	36"	26"	50	REFER TO 2 3
CONV-B	SF-A	8.0	2.0	6"	48"	32"	75	2 3
CONV-C	SF-A	11.0	2.0	6"	64"	32"	100	2 3

NOTES
1. AS MANUFACTURED BY "STERLING".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. CAPACITIES BASED ON 150° A.W.T.

SCHEDULE OF DUCT MOUNTED HEATING COILS

GENERAL DATA			SIZE					AIR SIDE						WATER SIDE		
MARK	BUILDING	SERVICE	WIDTH (IN.)	HEIGHT INCHES	FACE AREA (FT²)	ROWS	FINS PER INCH	CFM	MBH	PRESS. DROP (IN. WC)	VELOCITY FPM	E.A.T. °F	L.A.T. °F	FLOW RATE (GPM)	PRESS. DROP Δ HEAD (FT)	REMARKS
HC-1	HIGH SCHOOL	EDU-1	–	–	–	2 MINIMUM	12 MAXIMUM	6600	435	0.2" MAX	600 MAX.	10	70	STEAM	5 FT. MAX	REFER TO 1 2 4
HC-2	HIGH SCHOOL	EDU-2	–	–	–			6600	435					STEAM		
HC-3	HIGH SCHOOL	EDU-3	–	–	–			600	36					STEAM		
HC-4	HIGH SCHOOL	EDU-4	–	–	–			400	27					3.0		
HC-5	HIGH SCHOOL	EDU-5	–	–	–			200	14					2.0		
HC-6	HIGH SCHOOL	EDU-6	–	–	–			6000	396					40.0		
HC-7	MIDDLE SCHOOL	AHU-1 (EXIST)	–	–	–			8000	528					53.0		
HC-8	HIGH SCHOOL	EDU-8	–	–	–			1500	99					10.0		
HC-9	HIGH SCHOOL	EDU-9	–	–	–			400	27					3.0		
HC-11	MIDDLE SCHOOL	EDU-11	–	–	–			400	27					3.0		

NOTES
1. ENTERING WATER TEMPERATURE 180°F, 20°F ΔT.
2. PROVIDE INSPECTION AND CLEANING DUCT ACCESS DOOR ON UPSTEAM SIDE OF COIL.
3. THE HOT WATER COIL IS SIZED TO HANDLE OUTDOOR AIR QUANTITIES AT 100 PERCENT OF OCCUPANCY WITHOUT HAVING TO RESORT TO CLOSING OUTDOOR AIR INTAKE DAMPERS ON A "DESIGN HEATING DAY" TO PREVENT FREEZE-UP.

SCHEDULE OF CABINET HEATERS

MARK	TYPE UNIT	MODEL No.	CAPACITY DATA (2) BTU/HR	CFM	GPM	PD.FT.	MOTOR HP	MOTOR RPM	ELECTRIC SERVICE	PHYSICAL DATA (IN)	WEIGHT (LBS)	REMARKS
CH-A	RECESSED CLG. MTD.	RC1200-03 (1)	21,900	265	3.0	0.77	1/15	1100	120/1/60	43Wx25Lx10H	125	REFER TO 2 3 4
CH-B	RECESSED WALL MTD.	RW1120-03	21,900	265	3.0	0.77	1/15	1100	120/1/60	43Wx25Lx10H	125	REFER TO 2 3 4

NOTES
1. AS MANUFACTURED BY "STERLING".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. CAPACITIES BASED ON LOW SPEED FAN SETTING AND HW 160°F/140°F
4. PROVIDE THROWAWAY FILTERS, DISCONNECT SWITCH, TWO ROW COIL, REMOTE THERMOSTAT/FAN CONTROLS, ELECTRONICALLY COMMUTATED MOTOR (ECM), OPTIONAL COLOR/FINISH SELECTED BY ARCHITECT, INTEGRAL SPEED CONTROL SWITCH FIELD MOUNTED, RECESSED TRIM SECTION AND SEALS.

SCHEDULE OF EXPANSION TANK

MARK	MODEL No. (1)	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
ET-1	B-400	106	106	REFER TO 2 3

NOTES
1. AS MANUFACTURED BY "BELL & GOSSETT".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. VERTICAL MOUNTING 125PSI ASME TANK, DIMENSIONS 24"x65"H / 1200LBS.

SCHEDULE OF BOILERS

BOILER DATA MARK	LOCATION	MODEL No. (1)	BURNER DATA INPUT (MBH)	OUTPUT (MBH)	FUEL	ELECTRICAL SERVICE	MCA	PHYSICAL DATA (IN)	WEIGHT (LBS)	REMARKS
B-1 B-2 B-3	BOILER ROOM	ENDURA 1000	1000	902	GAS	120/1/60	20	28Wx51Lx68H	2000	REFER TO 2 3 4 5 6

NOTES
1. AS MANUFACTURED BY "FULTON".
2. BURNER INTEGRAL TO BOILER.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. BOILER INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF INSURANCE UNDERWRITER, NFPA AND ALL AUTHORITIES HAVING JURISDICTION. BOILERS SHALL BE FULLY FIELD COMMISSIONED BY AUTHORIZED TECHNICIAN FOR THE TYPE OF GAS FIRED (LPG OR NG). IF THE TYPE OF GAS IS CHANGED AFTER STARTUP THE BOILERS SHALL BE FULLY RE-COMMISSIONED BY AUTHORIZED TECHNICIAN.
5. PROVIDE MANUFACTURER RECOMMENDED COMBUSTION AIR INTAKE AND EXHAUST VENT PIPING, VENT PIPE CONDENSATE DRAIN, HIGH/LOW LIMIT CONTROL, DUAL LOW WATER CUT OFFS, OUTDOOR AIR TEMPERATURE SENSOR KIT, MULTIPLE BOILER CONDENSATE NEUTRALIZER PACKAGE, VENT PIPING PER THIS MANUFACTURER AL-29-4C OR 316L, BACNET CONTROLS, DISCONNECT SWITCH, LEAD LAG CONTROLS, MOTORIZED ISOLATION VALVES, BOILER PUMP START/STOP SIGNAL, VENTLESS GAS TRAIN, MODSYNC CONTROL PANEL.
6. HOT WATER BASED ON 140°F E.W.T., 160°F L.W.T.

SCHEDULE OF EXISTING STEAM BOILERS

BOILER DATA MARK	SERVICE	MODEL No. (1)	NUMBER OF SECTIONS	BURNER DATA MODEL No. (2)	OUTPUT (BHP)	OUTPUT MBH/HR	BOILER EFFICIENCY	FIRING RATE OIL (GPH)	FIRING RATE GAS (MBH)	BURNER MOTOR HP	OIL PUMP MOTOR HP	INDUCED DRAFT FAN DATA MODEL No. (3)	MOTOR HP	REMARKS
BOILER #1	ORIG.BLDG. & ADDITION	6500 -5-21	21	C7-GO-30	325	8463	83.7%	92	–	7 1/2 (208/3/60)	3/4 (208/3/60)	24C30D-3	3 (208/3/60)	
BOILER #2														
BOILER #3														

NOTES
1. AS MANUFACTURED BY "H.B. SMITH".
2. AS MANUFACTURED BY "POWERFLAME".
3. AS MANUFACTURED BY "AUBURN".

SCHEDULE OF PUMPS

MARK	SERVICE	LOCATION	MODEL No. (1)	GPM	HEAD FT.H_2O	RPM	MOTOR HP/BHP	ELECTRIC SERVICE	PHYSICAL DATA (IN)	WEIGHT (LBS)	REMARKS
CWP-1 CWP-2	HEATING LOOP	MECHANICAL	SERIES E-1510 5GB	800	80	1800	30/21	460/3/60	25Wx56Lx30H	1100	REFER TO 2 3
CWP-3 CWP-4	HEATING LOOP	MECHANICAL	SERIES E-1510 3AD	300	130	1800	25/17.5		21Wx52Lx24H	900	REFER TO 2 3
CWP-5 CWP-6	HEATING LOOP	MECHANICAL	SERIES E-1510 3AD	300	130	1800	25/17.5		21Wx52Lx24H	900	REFER TO 2 3
CWP-7 CWP-8 CWP-9	HEATING LOOP	MECHANICAL	SERIES E-80 4x4x9.5B	200	20	1170	2/1.5		12Wx25Lx29H	300	REFER TO 2 3
CWP-10 CWP-11	HEATING LOOP	MECHANICAL	– –	200	75	1750	7.5/–		–	–	REFER TO 4

NOTES
1. AS MANUFACTURED BY "BELL & GOSSETT".
2. INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE VFD'S FOR ALL PUMPS. VFD'S SHALL BE WALL OR STAND MOUNTED NEAR PUMPS. PROVIDE ALL MOUNTING HARDWARE.
4. EXISTING PUMPS SHALL BE INSPECTED, REFURBISHED TO EXISTING DESIGN CONDITIONS. REPAIR PUMPS AS REQUIRED IF FOUND NOT OPERATING PROPERLY. PROVIDE INITIAL WATER BALANCING REPORT PRIOR TO HEAT EXCHANGER DEMOLITION FOR BASELINE OF EXISTING PUMP PERFORMANCES.

1

SCHEDULE OF UNIT VENTILATORS

MARK	MODEL No.	CFM	MIN. (2) O.A. CFM	COOLING DATA TOTAL CAPACITY MBH	COOLING DATA SENSIBLE CAPACITY MBH	HEATING DATA (2) CAPACITY MBH	GPM	ROWS	FILTER TYPE	MOTOR H.P.	ELEC. SERV.	MOTOR FLA	MCA	MOP	PHYSICAL DATA DIMENSION / WEIGHT	REMARKS
UV-A	FRESHMAN HNA1000BC (1)	1000	550	–	–	76	5	2	THROWAWAY (2)12"x20"x2"	0.5 EA	208/1/60	4.7	9.5	15	40"Lx35"Wx115"H/600LBS	REFER TO 3 4
UV-B	FRESHMAN HNA1800BC (1)	1750	550	–	–	76	5	2	THROWAWAY (2)12"x20"x2"	0.5 EA	208/1/60	4.7	14.4	20	47"Lx35"Wx115"H/600LBS	3 4
UV-C	MAUV1500	1500	1055	–	–	84	9	3	THROWAWAY	0.5	115/1/60	4.7	5.9	15	100"Lx22"Wx30"H/750LBS	3 5

NOTES
1. AS MANUFACTURED BY "CHANGEAIR SYSTEMS". (1a) AS MANUFACTURED BY "MAGIC AIRE CORP".
2. BASED ON 160° F E.W.T., 140° F L.W.T.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
4. UNIT SHALL INCLUDE ERV (ENERGY RECOVERY WHEEL) PACKAGE, SOUND PACKAGE, HOT WATER HEATING COIL, DX COIL FOR FUTURE CONNECTION, 24" HIGH ACOUSTICALLY LINED SUPPLY PLENUM WITH MULTIPLE REGISTERS, FIELD ERECTED TOP EXTENSION SECTIONS TO CEILING, MODULATING ECONOMIZER (100% OA) CONTROLS, POWERED EXHAUST, FIELD ERECTED REAR PLENUM SECTIONS, FULL SIZE LOUVER, BACNET CONTROLLER, ISOLATION VALVES, STRAINERS, PT PORTS, BRAIDED HOSE-KIT, 2" THICK MERV 13 FILTERS, SIDE PIPE COVERS, FULL HEIGHT SIDE PANELS FROM UNIT TO WALL AND TOP/BOTTOM TRIM/COVE BASE PIECES. (ALL EXTENSIONS, PANELS, PIPE ENCLOSURES AND TRIM/COVE BASE PIECES SHALL MATCH UNIT COLOR AND FINISH).
5. UNIT SHALL INCLUDE HOT WATER HEATING COIL, FULL ADAPTER BACK WITH PIPE TUNNEL, INSULATED VALVE PACKAGE, DISCHARGE GRILLE WITH SCREEN, INSULATED OUTSIDE AIR DAMPER, FACE AND BYPASS DAMPER, 2" MERV 8 FILTERS.

SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

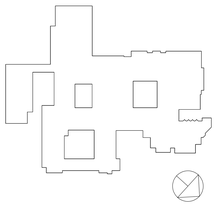
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#P/1000 SQ.FT.)	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A×B)÷1000=#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
H203											
CLASSROOM 191	CLASSROOM (AGES 9+)	743	35	10	0.12	0	27	359	0.8	449	0
CONFERENCE ROOM 102	CONFERENCE/MEETING	377	50	5	0.06	0	19	118	0.8	147	0
OFFICE 112	OFFICE SPACE	99	5	5	0.06	0	1	11	0.8	14	0
OFFICE 116	OFFICE SPACE	105	5	5	0.06	0	1	11	0.8	14	0
NURSE 118	OFFICE SPACE	115	5	5	0.06	0	1	12	0.8	15	0
TOILET 118A	TOILETS - PUBLIC	53	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
ROOM 143I	BREAK ROOMS	50	50	5	0.12	0	3	21	0.8	26	0
H204											
MIDDLE SCHOOL GYM 131	GYM, SPORTS ARENA (PLAY AREA)	6287	7	20	0.18	0.5	45	2032	0.8	2540	3144
H205											
LEARNING COMMONS 143	MEDIA CENTER	1996	25	10	0.12	0	50	740	0.8	924	0
OFFICE 141A	OFFICE SPACE	253	5	5	0.06	0	2	25	0.8	31	0
CLASSROOM 136	CLASSROOM (AGES 9+)	677	35	10	0.12	0	24	321	0.8	402	0
CLASSROOM 138	CLASSROOM (AGES 9+)	677	35	10	0.12	0	24	321	0.8	402	0
CLASSROOM 140	CLASSROOM (AGES 9+)	677	35	10	0.12	0	24	321	0.8	402	0
TEACHER WORKROOM 145	CLASSROOM (AGES 9+)	756	35	10	0.12	0	27	361	0.8	451	0
H206											
HIGH SCHOOL GYM 179	GYM, SPORTS ARENA (PLAY AREA)	8987	7	20	0.18	0.5	63	2878	0.8	3597	4494
AUXILARY GYM 177	GYM, SPORTS ARENA (PLAY AREA)	5507	7	20	0.18	0.5	39	1771	0.8	2214	2754
H207											
CAFETERIA	CAFETERIA/FAST-FOOD DINING	4488	100	7.5	0.18	0	449	4175	0.8	5219	0
H209											
CLASSROOM 221	CLASSROOM (AGES 9+)	691	35	10	0.12	0	25	333	0.8	416	0
CLASSROOM 223	CLASSROOM (AGES 9+)	691	35	10	0.12	0	25	333	0.8	416	0
CLASSROOM 225	CLASSROOM (AGES 9+)	691	35	10	0.12	0	25	333	0.8	416	0
CLASSROOM 224	CLASSROOM (AGES 9+)	920	35	10	0.12	0	33	440	0.8	551	0
CLASSROOM 226	CLASSROOM (AGES 9+)	716	35	10	0.12	0	26	346	0.8	432	0
CLASSROOM 218	CLASSROOM (AGES 9+)	1040	35	10	0.12	0	37	495	0.8	619	0
CLASSROOM 220	CLASSROOM (AGES 9+)	1030	35	10	0.12	0	37	494	0.8	617	0
CLASSROOM 222	CLASSROOM (AGES 9+)	908	35	10	0.12	0	32	429	0.8	536	0
H210											
OFFICE 239	OFFICE SPACE	870	5	5	0.06	0	5	77	0.8	97	0
OFFICE 240	OFFICE SPACE	870	5	5	0.06	0	5	77	0.8	97	0
H211											
LEARNING STUDIO 310	CLASSROOM (AGES 9+)	402	35	10	0.12	0	15	198	0.8	248	0
LEARNING STUDIO 312	CLASSROOM (AGES 9+)	402	35	10	0.12	0	15	198	0.8	248	0
LEARNING COMMONS	CLASSROOM (AGES 9+)	2240	35	10	0.12	0	79	1059	0.8	1324	0
SGR 315	CLASSROOM (AGES 9+)	105	35	10	0.12	0	4	53	0.8	66	0
ELEVATOR LOBBY 300	LOBBIES	80	150	5	0.06	0	12	65	0.8	81	0

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DBE: TAB: Layout1 – Y:\RYE CITY SD\Rye CSD – 2019 Bond – Phase 2 (1937.00)\Drawings\HVAC\a193700H-302-MHS.dwg – DATE: Jan 28, 2021 – 2:31pm

Revision Schedule

No.	Description	Date
1	SED Submission	09/15/2020
2	SED Submission Addendum#1	01/08/2021
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Geddis Architects
Architecture. Planning. Interiors
71 Old Post Road
P.O. Box 1020
Southport, CT 06890
(203) 256-8700

Fielding International
Transforming Education by Design
259 Water Street Suite 1L
Warren , RI 02885 USA
+1 401-289-2789

BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
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914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Construction Manager
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3 Campus Drive
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Structural Engineer
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North Providence, RI 02904
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1 Winners Circle, Suite 130
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SED #: 6618-0001-0005-031

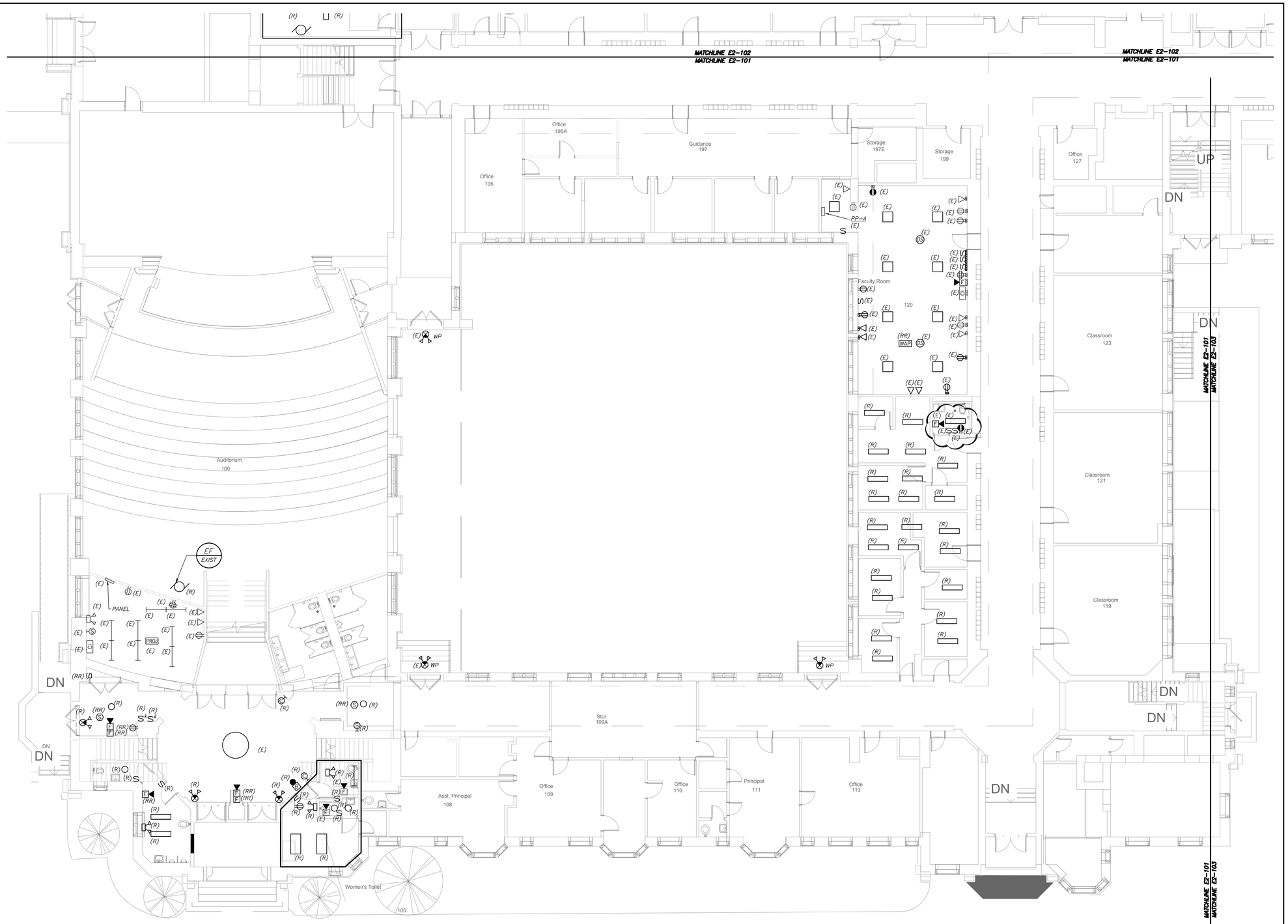
PROJECT
Rye City School District
555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL SCHEDULE

SEAL & SIGNATURE

DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: H2-302



PARTIAL FIRST FLOOR PLAN (REMOVALS) (PROJECT 1)

1 / E2-101

1/8 inch=1 foot

CORRIDOR CEILING WORK NOTES (READ CAREFULLY):

1. CORRIDOR CEILING SHALL BE REMOVED BY OTHER CONTRACTORS, THIS ELECTRICAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE TO RE-SUPPORT ALL LOW VOLTAGE WIRING AND MC LINE VOLTAGE CABLE LYING ON THE CEILING TILE, GRID AND NOT PROPERLY SUPPORTED WITH J-HOOKS BEFORE THE START OF THE CEILING REMOVAL. THIS CONTRACTOR SHOULD ANTICIPATE THAT THERE WILL BE APPROXIMATELY 2-20 CABLES ALONG THE WALL AGAINST THE CLASSROOMS ON BOTH SIDES OF THE CORRIDOR. THE CENTER OF THE CORRIDOR HAS APPROXIMATELY 30 TO 50 LOW VOLTAGE CABLES AND 5 TO 10 MC ARMORED LINE VOLTAGE CABLES. INCLUDE THE REWIRING OF APPROXIMATELY 36 - 200'-0" LENGTH LOW VOLTAGE CABLES TO ALLOW CLEARANCE FOR HVAC DUCTWORK AND PIPING. THE LOW VOLTAGE CABLE TYPE CONSISTS OF DATA, TELEPHONE, PA, FIRE ALARM, SECURITY, CAMERAS, AND MECHANICAL EQUIPMENT CONTROL WIRING.
2. THE EXISTING LIGHTING WILL BE MAINTAINED AS TEMPORARY LIGHTING DURING THE DURATION OF ABOVE CEILING WORK. ONCE NEW LIGHTING FIXTURES ARE INSTALLED ALL EXISTING LIGHTING SHALL BE REMOVED IN ITS ENTIRETY INCLUDING BRANCH CIRCUITRY BACK TO SOURCE.
3. ALL CEILING MOUNTED SPEAKERS, FIRE ALARM DEVICES (SMOKE DETECTORS, CARBON DETECTORS, ETC.) ANY SECURITY DEVICES (MOTION SENSORS, ETC. EXCLUDING CAMERAS) SHALL BE RE-SUPPORTED AND MAINTAINED DURING THE DURATION OF ABOVE CEILING WORK. ONCE NEW CEILING INSTALLATION WORK START THIS CONTRACTOR SHALL REINSTALL AND REMOUNT ALL DEVICES IN NEW CEILING TILES IN A NEAT AND CLEAN MANNER. ALL CEILING MOUNTED CAMERAS AND WAP'S WILL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT TO REMOVE AND REINSTALL.
4. THE CORRIDOR CEILING SEQUENCE OF THE WORK SHALL BE COORDINATED WITH CONSTRUCTION MANAGER, SCHOOL DISTRICT AND OTHER CONTRACTORS BEFORE THE START OF ANY WORK.

REMOVAL NOTES:

1. REMOVE AND REINSTALL SMOKE DETECTORS IN ANY CLASSROOM, OFFICES ETC. WHERE CEILING IS BEING REPLACED. MAINTAIN THE EXISTING FIRE ALARM LOOP CONTINUITY FOR ALL EXISTING DEVICES REMAINING.
2. REMOVAL AND RELOCATING OF ALL SECURITY CAMERAS AND WIRELESS ACCESS POINTS IN CLASSROOM, OFFICES, ETC. SHALL BE DONE BY SCHOOL DISTRICT. COORDINATE WITH CONSTRUCTION MANAGER AND SCHOOL DISTRICT BEFORE THE START OF ANY WORK.
3. REFER TO CORRIDOR CEILING WORK NOTES FOR ADDITIONAL SCOPE.

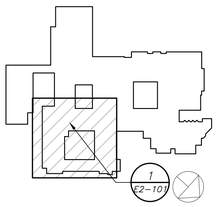
WORK NOTES:

(1) PROJECTORS SHALL BE REMOVED, BUBBLED WRAP FOR PROTECTION, STORED AND REINSTALLED BY ELECTRICAL CONTRACTOR.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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Providence, RI
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SED #: 6618-0001-0005-031

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN

PROJECT 1

SEAL & SIGNATURE

DATE:	11/07/19
PROJECT No:	9200
DRAWING BY:	BGA
CHK BY:	BGA
DWG No:	E2-101


MATCHLINE E2-202
MATCHLINE E2-201
PNL-LA1
Stair ST-7
Office 195A
Office 195
Guidance 197
Office 195B
Office 197A
Office 197B
Office 197C
Office 197D
Storage 197E
Storage 199
Courtyard 206TTT
Faculty Room 120
Auditorium 100
PNL-STG-1
PNL-STG-2
PP-AUD
MP-HA
PNL-3
Media Tech 106B
Women's Toilet 106A
Men's Toilet 106C
Room 106
Room 106A
Toilet 118A
Nurse 119
Office 116
Office 112
Office 114
PP-MV-1A
LP-A
PNL-LB1
Office 107
Stor. 109A
LP-Q
Office 109
Asst. Principal 108
Office 110
Principal 111
Toilet 111A
Office 113
Security 115
Secure Vestibule 308
Storage 311
EM-LP-1
Room 117
Office
127
Social Work 124
Classroom 123
Classroom 121
Classroom 119
UP
DN
PP-SEC
(N) WM4
EM-LP-3 #4 LP-Q #2
EM-LP-3 #4 LP-Q #2
EM-LP-3 #4 LP-Q #2

WORK NOTES:

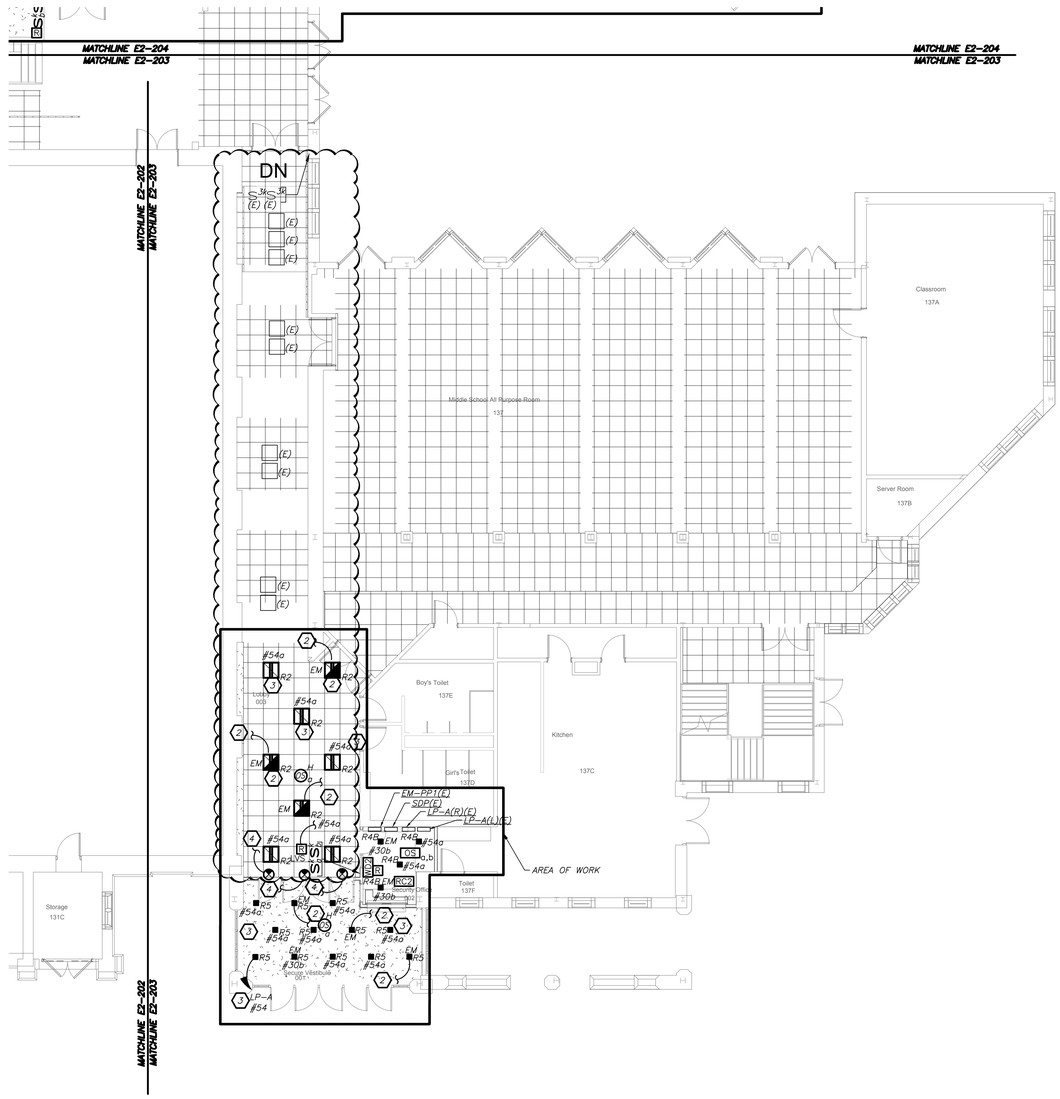
1. NOT USED
2. CIRCUIT NEW EMERGENCY LIGHTING TO EXISTING EMERGENCY CIRCUIT SERVING CORRIDOR. EC TO CONFIRM CIRCUIT IN FIELD. PROVIDE 2#12+1#12G IN 3/4"C FROM NEW LIGHTS TO EXISTING LIGHT FIXTURES.
3. CIRCUIT NEW NORMAL LIGHTING ON EXISTING LIGHTING CIRCUIT IN THIS AREA. CIRCUIT NUMBER ARE FOR REFERENCE ONLY. EC TO CONFIRM CIRCUIT # IN FIELD. PROVIDE 2#12+1#12G IN 3/4"C FROM SOURCE PANELBOARD TO FEED NEW LIGHT FIXTURES. PROVIDE NEW KEY SWITCH AS SHOWN.
4. CIRCUIT EXIT LIGHTS TO THE EM LIGHTING CIRCUIT IN THIS AREA, AHEAD OF ANY SWITCHING.

LIGHTING CONTROL AND SEQUENCE OF OPERATION:

1. NEW LEARNING COMMONS ILAB ARE CONTROLLED VIA MANUAL ON DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. IT CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWITCHES CONSISTS OF 'A', 'B', 'C' 'OFF', 'RAISE', AND 'LOWER' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. UL 924 EMERGENCY LIGHTING RELAY ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON 100% IN THE EVENT OF EMERGENCY.
2. SMALL GROUP ROOMS ARE CONTROLLED VIA DIMMER SWITCH WITH FULL DIMMING CAPABILITY. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. EMERGENCY LIGHTING RELAY ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON 100% IN THE EVENT OF EMERGENCY.
3. OFFICES AND SEMINAR ROOMS ARE CONTROLLED VIA MANUAL ON DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH OFFICE CONSISTS OF FULL DIMMING CAPABILITY. WALL SWITCHES CONSISTS OF 'ON', 'RAISE', 'LOWER', AND 'OFF' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. UL 924 EMERGENCY LIGHTING RELAY ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF EMERGENCY.
4. ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA EXISTING LOCAL WALL SWITCHES. OVER LAPPED LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF) IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES.
5. ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA TWO SEPARATE EXISTING MANUAL WALL MOUNTED KEY SWITCHES AND OCCUPANCY SENSORS. THE OCCUPANCY SENSORS SHALL HAVE AUTO ON-AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN CORRIDOR IS VACANT. THE OCCUPANCY SENSOR SHALL CONTROL ONLY NORMAL/NON-EMERGENCY LIGHTING. THE LIGHTING FIXTURE DESIGNATED WITH EMERGENCY FEATURE SHALL BE CONTROLLED VIA WALL MOUNTED KEY SWITCH . UL 924 EMERGENCY LIGHTING RELAY (R) ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOSS OF POWER.

GENERAL NOTES:

1. REFER TO DRAWING E2-001 FOR LEGEND AND LIGHTING CONTROL AND E2-601 FOR LIGHTING FIXTURE SCHEDULE.
2. REFER TO DRAWING E2-600 SERIES FOR PANELBOARD SCHEDULES.
3. REFER TO DRAWING E2-701 AND E2-702 FOR LIGHTING CONTROL WIRING DIAGRAMS AND DETAILS.
4. NORMAL SIDE SENSING LINE ON ALL EMERGENCY LIGHTING RELAY SHALL BE CIRCUITED TO THE NORMAL LIGHTING CIRCUIT IN THE ROOM/AREA IT SERVES.
5. FOR ALL AREAS CONTROLLED BY ROOM CONTROLLER "RC", ELECTRICAL CONTRACTOR IS TO CIRCUIT ROOM CONTROLLER, THEN EXTEND LINE VOLTAGE CIRCUITRY TO EACH OF THE LIGHT FIXTURES DEPENDING ON CONTROL ZONES. REFER TO ROOM CONTROLLER WIRING DIAGRAM DETAILS ON DRAWING E2-702.
6. ALL EXIT LIGHTS SHALL BE CIRCUITED TO NORMAL LIGHTING CIRCUIT IN THE AREA, AHEAD OF ANY SWITCHING.
7. SET LIGHTING CONTROL SENSORS TO HIGHEST SENSITIVITY AVAILABLE PRIOR TO INSTALLATION.



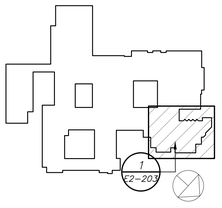
PARTIAL FIRST FLOOR LIGHTING PLAN (NEW WORK) (PROJECT 1) — 1 / E2-203

0 8" 16" — 1/8 inch=1 foot

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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SED #: 6618-0001-0005-031

PROJECT

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Rye High School & Middle School

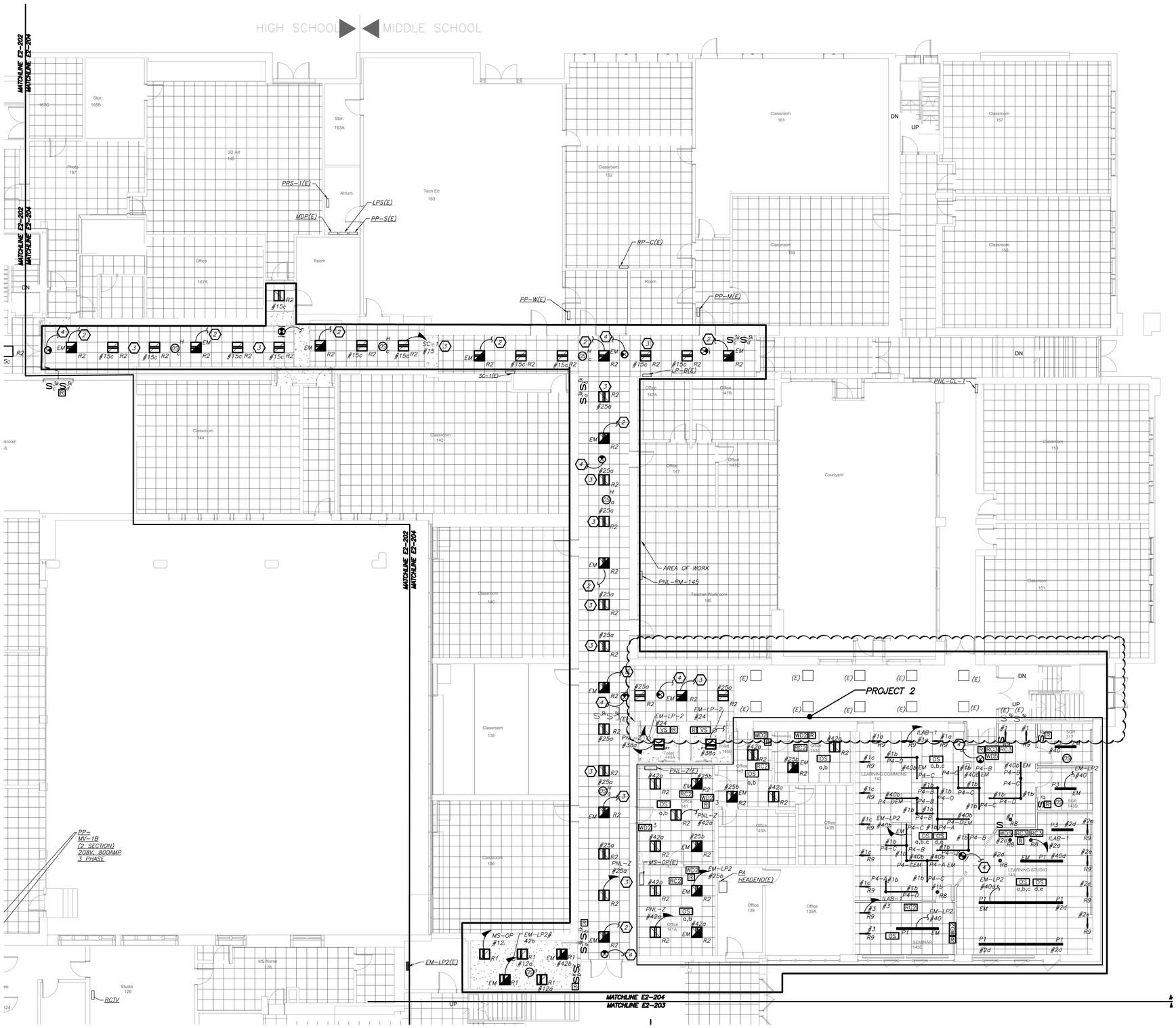
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN

PROJECT 1

SEAL & SIGNATURE

DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-203



PARTIAL FIRST FLOOR LIGHTING PLAN (NEW WORK) (PROJECT 1 & 2)

1 / E2-204

0 8' 16'

1/8 inch=1 foot

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

WORK NOTES:

1. APPROVED IN PHASE 1, SED #6618001-0005-031 ON 03/16/20.
2. CIRCUIT NEW EMERGENCY LIGHTING TO EMERGENCY PANELBOARD CIRCUIT MADE SPARE BY DEMO WORK. EC TO CONFIRM CIRCUIT IN FIELD. PROVIDE 2#12+1#12G IN 3/4"C FROM SOURCE PANELBOARD TO FEED NEW LIGHT FIXTURES.
3. CIRCUIT NEW NORMAL LIGHTING ON EXISTING LIGHTING CIRCUIT IN THIS AREA. CIRCUIT NUMBER ARE FOR REFERENCE ONLY. EC TO CONFIRM CIRCUIT # IN FIELD. PROVIDE 2#12+1#12G IN 3/4"C FROM SOURCE PANELBOARD TO FEED NEW LIGHT FIXTURES.
4. CIRCUIT EXIT LIGHTS TO THE EM LIGHTING CIRCUIT IN THIS AREA, AHEAD OF ANY SWITCHING.

LIGHTING CONTROL AND SEQUENCE OF OPERATION:

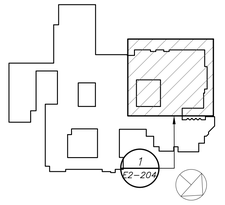
1. NEW LEARNING COMMONS ILAB ARE CONTROLLED VIA MANUAL ON DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. IT CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWITCHES CONSISTS OF 'A', 'B', 'C' 'OFF', 'RAISE', AND 'LOWER' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. UL 924 EMERGENCY LIGHTING RELAY ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON 100% IN THE EVENT OF EMERGENCY.
2. SMALL GROUP ROOMS ARE CONTROLLED VIA DIMMER SWITCH WITH FULL DIMMING CAPABILITY. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. EMERGENCY LIGHTING RELAY ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON 100% IN THE EVENT OF EMERGENCY.
3. OFFICES AND SEMINAR ROOMS ARE CONTROLLED VIA MANUAL ON DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH OFFICE CONSISTS OF FULL DIMMING CAPABILITY. WALL SWITCHES CONSISTS OF "ON", "RAISE", "LOWER", AND "OFF" BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. UL 924 EMERGENCY LIGHTING RELAY ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF EMERGENCY.
4. ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA EXISTING LOCAL WALL SWITCHES. OVER LAPPED LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF) IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES.

GENERAL NOTES:

1. REFER TO DRAWING E2-001 FOR LEGEND AND LIGHTING CONTROL AND E2-601 FOR LIGHTING FIXTURE SCHEDULE.
2. REFER TO DRAWING E2-600 SERIES FOR PANELBOARD SCHEDULES.
3. REFER TO DRAWING E2-701 AND E2-702 FOR LIGHTING CONTROL WIRING DIAGRAMS AND DETAILS.
4. NORMAL SIDE SENSING LINE ON ALL EMERGENCY LIGHTING RELAY SHALL BE CIRCUITED TO THE NORMAL LIGHTING CIRCUIT IN THE ROOM/AREA IT SERVES.
5. FOR ALL AREAS CONTROLLED BY ROOM CONTROLLER "RC", ELECTRICAL CONTRACTOR IS TO CIRCUIT ROOM CONTROLLER, THEN EXTEND LINE VOLTAGE CIRCUITRY TO EACH OF THE LIGHT FIXTURES DEPENDING ON CONTROL ZONES. REFER TO ROOM CONTROLLER WIRING DIAGRAM DETAILS ON DRAWING E2-702.
6. ALL EXIT LIGHTS SHALL BE CIRCUITED TO NORMAL LIGHTING CIRCUIT IN THE AREA, AHEAD OF ANY SWITCHING.
7. SET LIGHTING CONTROL SENSORS TO HIGHEST SENSITIVITY AVAILABLE PRIOR TO INSTALLATION.

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BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Construction Manager
SAVIN ENGINEERS, P.C.
3 Campus Drive
Pleasantville, NY 10570
914-769-3200

Structural Engineer
ODEH ENGINEERS
1223 Mineral Spring Ave
North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
518-463-4400

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

SED #: 6618-0001-0005-031

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

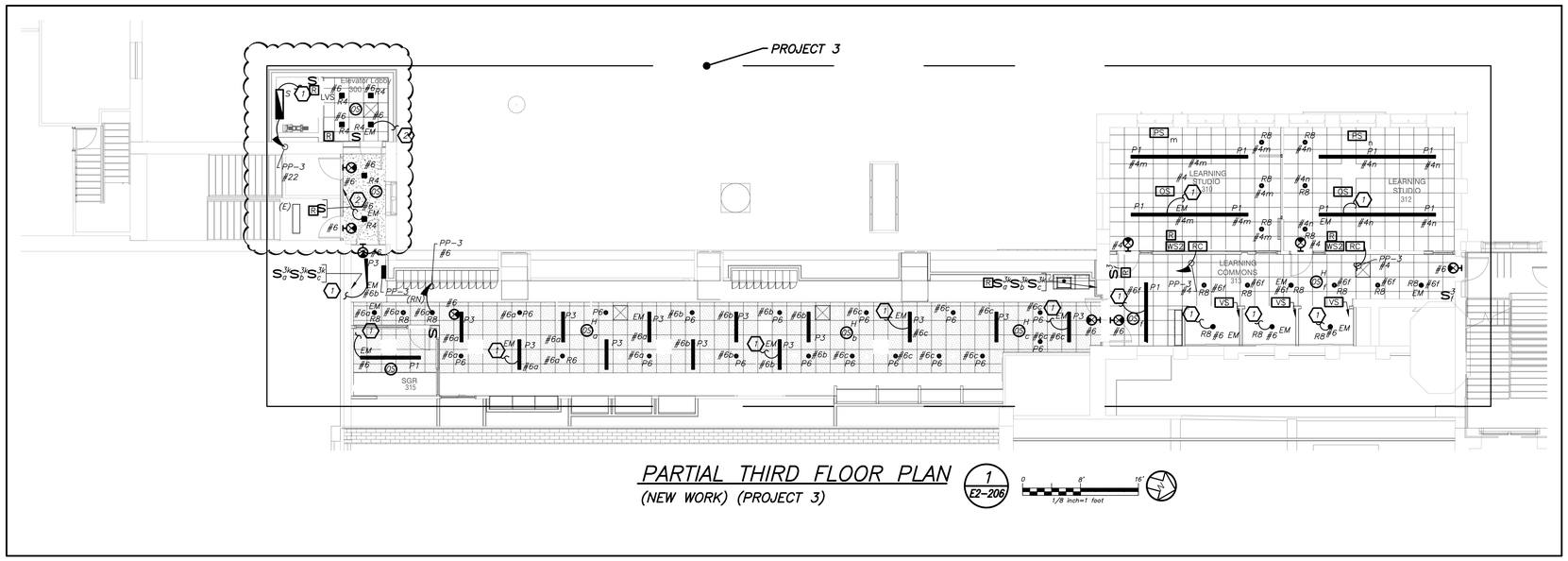
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN

PROJECT 1 & 2

SEAL & SIGNATURE

DATE:	11/07/19
PROJECT No:	9200
DRAWING BY:	BGA
CHK BY:	BGA
DWG No:	E2-204



PARTIAL THIRD FLOOR PLAN

(NEW WORK) (PROJECT 3)

1 / E2-206

0 8' 16'

1/8 inch=1 foot

LIGHTING CONTROL AND SEQUENCE OF OPERATION:

1. ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA TWO SEPARATE EXISTING MANUAL WALL MOUNTED KEY SWITCHES AND OCCUPANCY SENSORS. THE OCCUPANCY SENSORS SHALL HAVE AUTO ON–AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN CORRIDOR IS VACANT. THE OCCUPANCY SENSOR SHALL CONTROL ONLY NORMAL/NON–EMERGENCY LIGHTING. THE LIGHTING FIXTURE DESIGNATED WITH EMERGENCY FEATURE SHALL BE CONTROLLED VIA WALL MOUNTED KEY SWITCH . UL 924 EMERGENCY LIGHTING RELAY (R) ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOSS OF POWER.

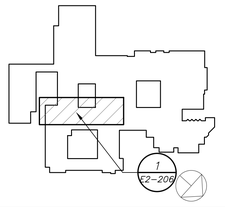
WORK NOTES:

1. CIRCUIT FIXTURE TO EMERGENCY LIGHTING CIRCUIT IN THE AREA.
2. CIRCUIT FIXTURE TO STAIRWAY EMERGENCY LIGHTING CIRCUIT AND CONTROLS.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS.

Revision Schedule

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Architecture. Planning. Interiors
71 Old Post Road
P.O. Box 1020
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(203) 256-8700

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Warren , RI 02885 USA
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SED #: 6618-0001-0005-031

PROJECT

Rye City School District

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Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR LIGHTING PLAN

PROJECT 3

SEAL & SIGNATURE

DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-206



PARTIAL FIRST FLOOR PLAN (NEW WORK)

1 / E2-302

0 8' 16'

1/8 inch=1 foot

WORK NOTES:

1. PROVIDE NEW P.A SYSTEM SPEAKERS THROUGH OUT THE CORRIDOR WITH MIN SPACE OF 30' BETWEEN EACH SPEAKERS. PROVIDE ALL NECESSARY ACCESSORIES IN THE HEADEND LOCATED IN THE MAIN OFFICE. PROVIDE NEW PLENUM RATED P.A WIRING ABOVE HUNG CEILING, PLENUM AND PLENUM RATED WIRING IN EMT IN EXPOSED UNFINISHED AREAS.
2. PROVIDE NEW SMOKE DETECTORS IN THE CORRIDORS AS REQUIRED BY CODE. ALL NEW FIRE ALARM WIRING TO BE CONNECTED TO NEAREST EXISTING LOOPS IN THE AREA.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEVICE LOCATIONS PERTAINING TO THE ELEVATOR WITH ELEVATOR VENDOR/TECH BEFORE THE START OF ANY WORK.

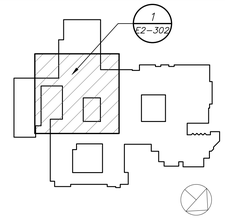
GENERAL NOTES:

1. REMOVAL AND RELOCATING OF ALL SECURITY CAMERAS AND WIRELESS ACCESS POINTS SHALL BE DONE BY OWNER.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS.

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71 Old Post Road
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401-861-3218

SED #: 6618-0001-0005-031

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

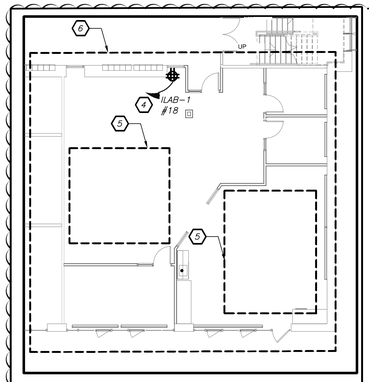
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER AND FA PLAN

PROJECT 1 & 3

SEAL & SIGNATURE

DATE:	11/07/19
PROJECT No:	9200
DRAWING BY:	BGA
CHK BY:	BGA
DWG No:	E2-302



LISTENING LOOP IN ILAB (PROJECT 2)

2 / E2-304 N.T.S.

GENERAL NOTES:

1. REFER TO ELECTRICAL RISER DIAGRAMS ON DRAWING E2-501 FOR SCOPE OF WORK.
2. REFER TO PANELBOARD SCHEDULES ON DRAWINGS E2-601 FOR BRANCH CIRCUITING INFORMATION.
3. REFER TO DRAWINGS E700 SERIES FOR DETAILS.
4. EXISTING BUILDING HAS FULL FIRE ALARM COVERAGE CONSISTING OF MANUAL PULL STATIONS, SMOKE DETECTORS, HEAT DETECTORS,, HORN/STROBES, STROBES, MAGNETIC DOOR HOLDERS ETC. AREAS OF WORK ONLY SHOWN WITH NECESSARY MODIFICATIONS.
5. REMOVAL AND RELOCATING OF ALL SECURITY CAMERAS AND WIRELESS ACCESS POINTS SHALL BE DONE BY OWNER. COORDINATE WITH SCHOOL DISTRICT AND CONSTRUCTION MANAGER BEFORE THE START OF ANY WORK.

WORK NOTES:

1. PROVIDE NEW PUBLIC ADDRESS SYSTEM SPEAKERS THROUGH OUT THE CORRIDOR WITH MIN SPACE OF 30' BETWEEN EACH SPEAKERS. PROVIDE ALL NECESSARY ACCESSORIES IN THE HEADEND LOCATED IN THE MAIN OFFICE. PROVIDE NEW PLENUM RATED P.A WIRING ABOVE HUNG CEILING AND PLENUM RATED WIRING IN EMT IN EXPOSED UNFINISHED AREAS AND PLENUM RATED IN WIREMOLD IN EXPOSED FINISHED AREAS.
2. PROVIDE NEW SMOKE DETECTORS IN THE CORRIDORS AS REQUIRED BY CODE. ALL NEW FIRE ALARM WIRING TO BE CONNECTED TO NEAREST EXISTING LOOPS IN THE AREA.
3. CIRCUIT FOR CEILING MOUNTED POWER OUTLET FOR AV RACK. REFER TO AUDIO VISUAL DRAWINGS AVE SERIES FOR ADDITIONAL INFORMATION.
4. PROVIDE POWER FOR TELE-COIL LOOP AMPLIFIER.
5. ELECTRICAL CONTRACTOR SHALL SCORE THE FLOOR AND FURNISH AND INSTALL TELECOIL LOOP. REFER TO AVE2 DRAWINGS FOR MORE DETAILS ON THE TOTAL SCOPE OF WORK INCLUDING 27000 SECTION OF SPECIFICATION.
6. COORDINATE EXACT FINAL MOUNTING LOCATION OF ALL AV RELATED BOXES AND EQUIPMENT WITH AV2 DRAWING AND VENDOR BEFORE THE START OF ANY WORK. DO NOT START INSTALLATION UNTIL YOU HAVE A SIGN OFF FROM SCHOOL DISTRICT AND CONSTRUCTION MANAGER.

SPECIAL NOTE: THIS CONTRACTOR SHALL RECEIVE SIGN-OFF FROM AV CONSULTANT AND ARCHITECT BEFORE THE START OF ANYWORK OF THE EXACT LOCATION OF ALL DEVICES, RECEPTACLES, JUNCTION BOXES, FLOOR BOXES, ETC SHALL BE MOUNTED WITHIN ILAB. IF ELECTRICAL CONTRACTOR DOES NOT RECEIVE WRITTEN CONFIRMATION IT WILL BE HIS RESPONSIBILITY TO RELOCATE ALL ITEMS AT NO ADDITIONAL COST TO OWNER.



PARTIAL FIRST FLOOR POWER PLAN (NEW WORK) (PROJECT 1 & 2)

1 / E2-304 — 0, 8', 16' — 1/8 inch=1 foot

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SED #: 6618-0001-0005-031

PROJECT
Rye City School District
555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER AND FA PLAN

PROJECT 1 & 2

SEAL & SIGNATURE

DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-304

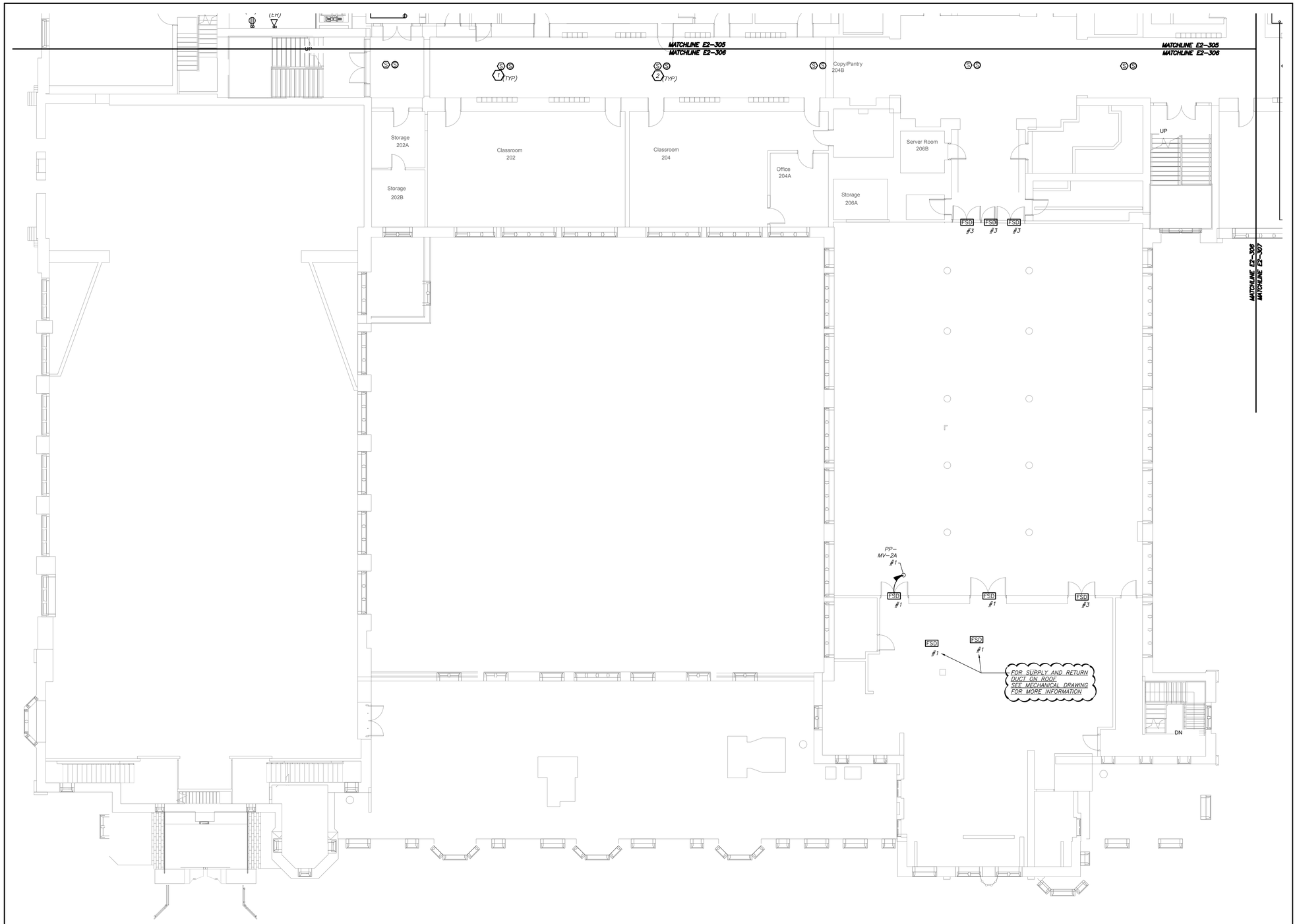
GENERAL NOTES:

1. REMOVAL AND RELOCATING OF ALL SECURITY CAMERAS AND WIRELESS ACCESS POINTS SHALL BE DONE BY OWNER.

WORK NOTES:

1. PROVIDE NEW P.A SYSTEM SPEAKERS THROUGH OUT THE CORRIDOR WITH MIN SPACE OF 30' BETWEEN EACH SPEAKERS. PROVIDE ALL NECESSARY ACCESSORIES IN THE HEADEND LOCATED IN THE MAIN OFFICE. PROVIDE NEW PLENUM RATED P.A WIRING ABOVE HUNG CEILING, PLENUM AND PLENUM RATED WIRING IN EMT IN EXPOSED UNFINISHED AREAS.

2. PROVIDE NEW SMOKE DETECTORS IN THE CORRIDORS AS REQUIRED BY CODE. ALL NEW FIRE ALARM WIRING TO BE CONNECTED TO NEAREST EXISTING LOOPS IN THE AREA.



PARTIAL SECOND FLOOR PLAN (NEW WORK)

1/8 inch=1 foot

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CONSULTING ENGINEERS
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Construction Manager
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3 Campus Drive
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Structural Engineer
ODEH ENGINEERS
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WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
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401-861-3218

SED #: 6618-0001-0005-031

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

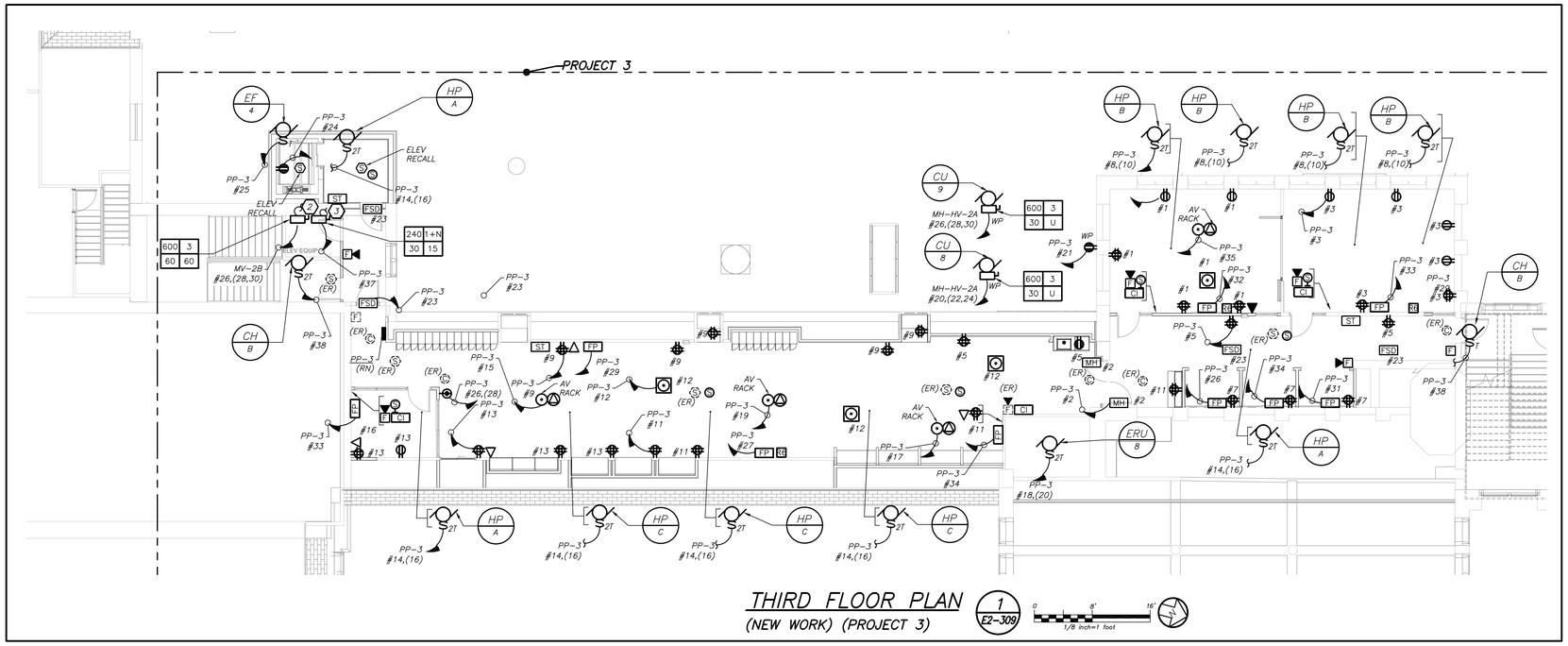
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HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR POWER AND FA PLAN

PROJECT 1

SEAL & SIGNATURE

DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-306



THIRD FLOOR PLAN (NEW WORK) (PROJECT 3)

1 E2-309

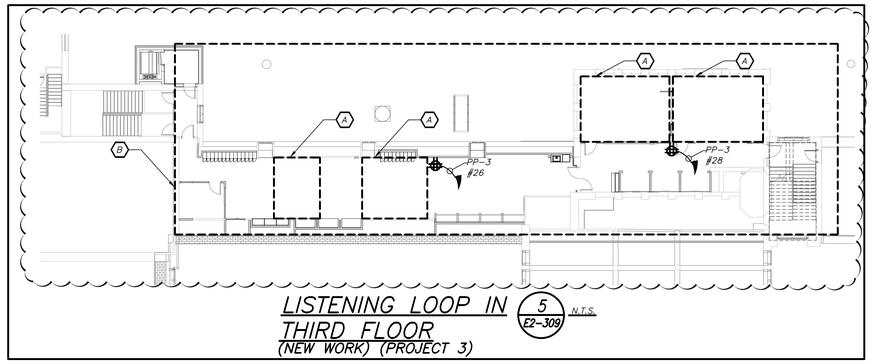
0 8' 16'

1/8 inch=1 foot

WORK NOTES:

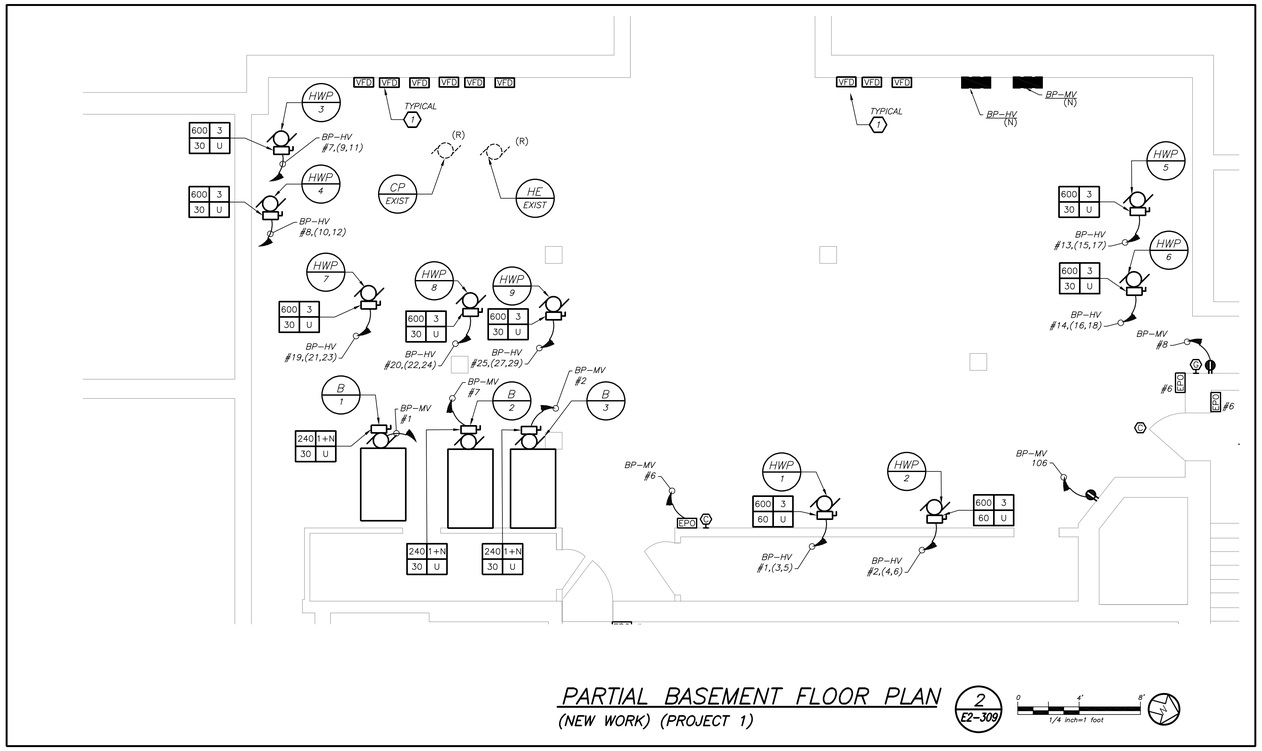
A. ELECTRICAL CONTRACTOR SHALL CHOP UP FLOOR TO PROVIDE TELECOIL LOOP. REFER TO AV DRAWING FOR MORE DETAILS ON SCOPE OF THE LOOP.

B. COORDINATE EXACT FINAL MOUNTING LOCATION OF ALL AV RELATED BOXES AND EQUIPMENT WITH AV2 DRAWING AND VENDOR BEFORE THE START OF ANY WORK. DO NOT START INSTALLATION UNTIL YOU HAVE A SIGN OFF FROM SCHOOL DISTRICT AND CONSTRUCTION MANAGER.



LISTENING LOOP IN THIRD FLOOR (NEW WORK) (PROJECT 3)

5 E2-309 N.T.S.



PARTIAL BASEMENT FLOOR PLAN (NEW WORK) (PROJECT 1)

2 E2-309

0 4' 8'

1/4 inch=1 foot

GENERAL NOTES:

1. REMOVAL AND RELOCATING OF ALL SECURITY CAMERAS AND WIRELESS ACCESS POINTS SHALL BE DONE BY OWNER.
2. COORDINATE EXACT FINAL LOCATION OF ALL AV RELATED BOXES AND EQUIPMENT WITH AV2 DRAWING AND VENDOR BEFORE THE START OF ANYWORK. ELECTRICAL CONTRACTOR SHALL NOT START INSTALLATION UNTIL YOU THEY HAVE A SIGN OF FROM SCHOOL DISTRICT AND CONSTRUCTION MANAGER.

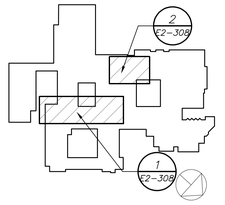
WORK NOTES:

1. ELECTRICAL CONTRACTOR SHALL CONNECT VFD TO EACH HOT WATER PUMP.
2. PROVIDE 2#18 WITH DRY CONTACTS FROM PANEL MH-HV-2B TO DISCONNECT.
3. PROVIDE 2#18 WITH DRY CONTACTS FROM PANEL PP-3 TO DISCONNECT.
4. PROVIDE RECEPTACLE FOR CHEMICAL FEED. COORDINATE EXACT LOCATION OF RECEPTACLE WITH MECHANICAL CONTRACTOR BEFORE THE START OF ANY WORK.

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SED #: 6618-0001-0005-031

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

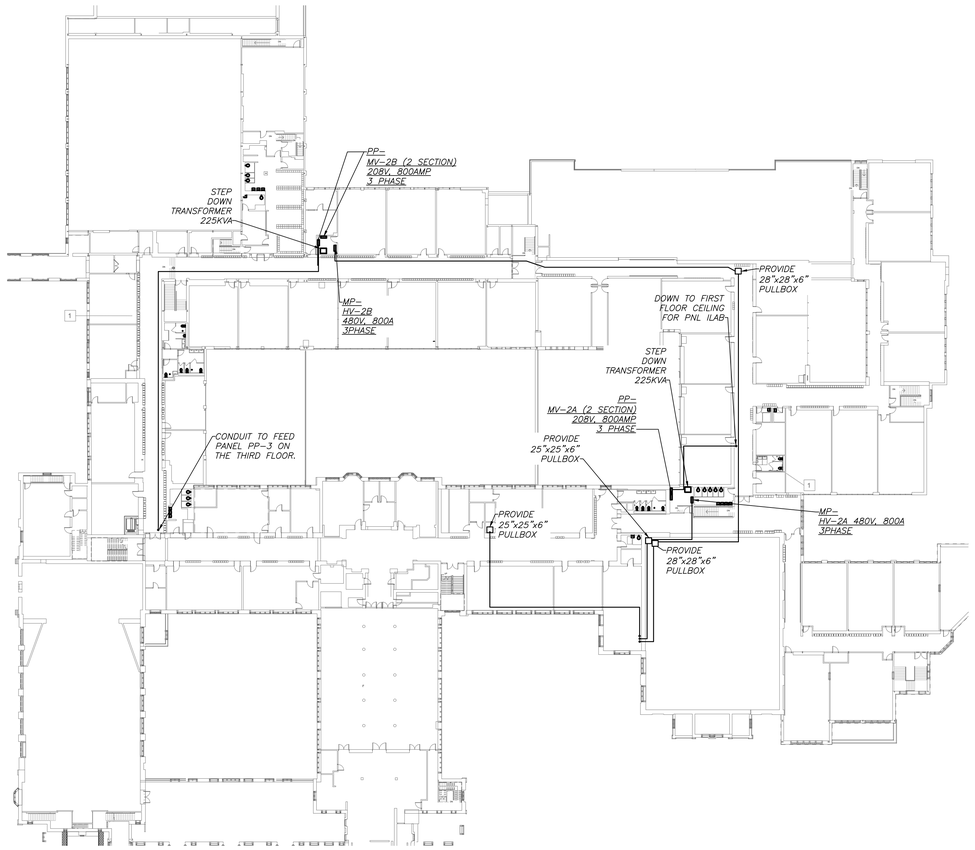
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR AND BASEMENT POWER AND FA PLAN

PROJECT 1 & 3

SEAL & SIGNATURE

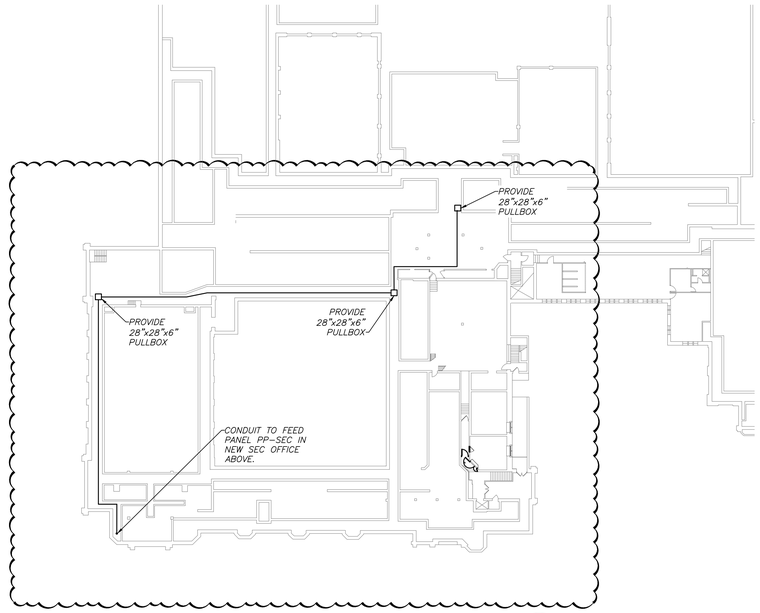
DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-309



SECOND FLOOR CONDUIT ROUTING
(NEW YORK)

2 E2–311

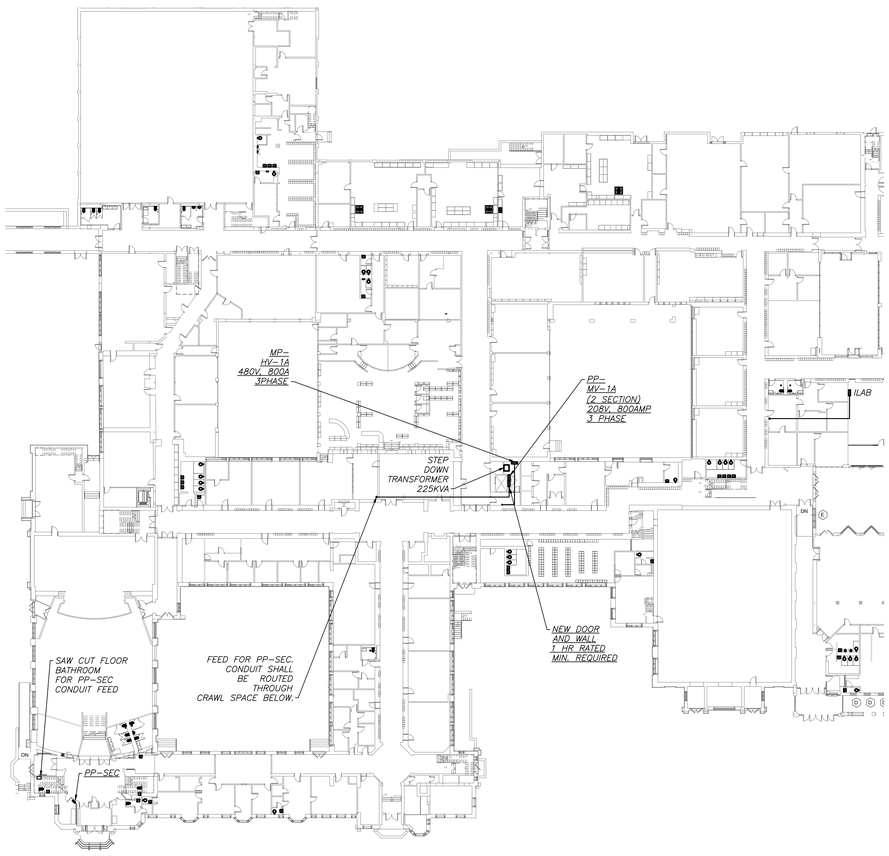
0 32' 64'
1/32 inch=1 foot



BASEMENT FLOOR CONDUIT ROUTING
(NEW YORK)

1 E2–311

0 32' 64'
1/32 inch=1 foot



FIRST FLOOR CONDUIT ROUTING
(NEW YORK)

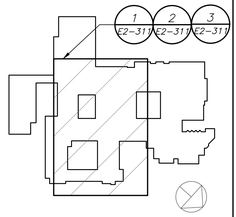
2 E2–311

0 32' 64'
1/32 inch=1 foot

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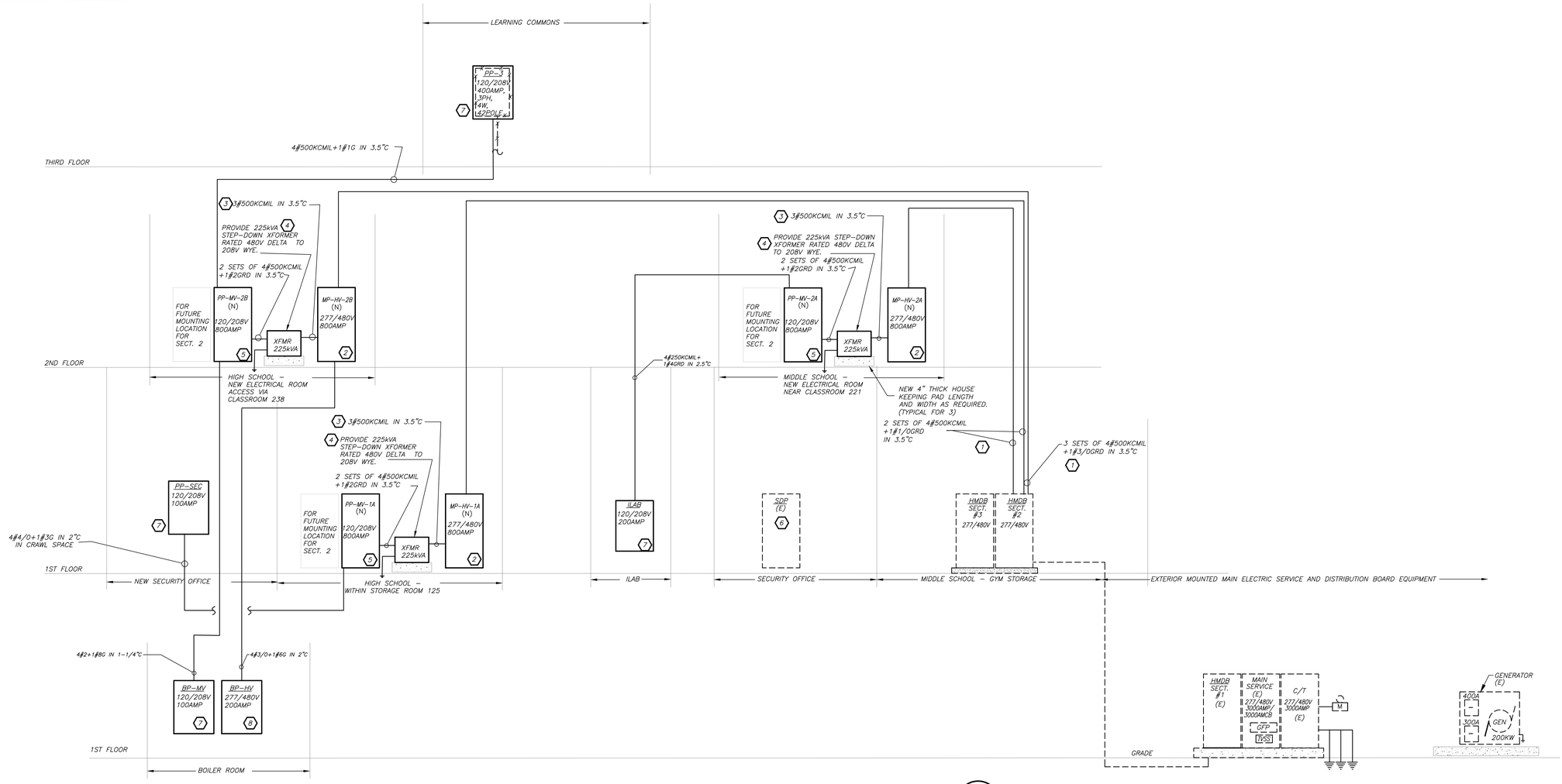
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HIGH SCHOOL & MIDDLE SCHOOL ELECTRICAL CONDUIT ROUTING

SEAL & SIGNATURE

DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-311



HSMS PART POWER RISER DIAGRAM

1 E2-501 N.T.S.

WORK NOTES:

1. UTILIZE THE AVAILABLE 3P-800AMP SPARE BREAKER AND PROVIDE CONDUIT AND WIRE SIZED AS INDICATED. REFER TO FLOOR PLANS FOR CONDUIT RUN.
2. PROVIDE NEW 277/480V DISTRIBUTION BOARD. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.
3. REFER TO PANEL SCHEDULE FOR BREAKER SIZE AND PROVIDE CONDUIT AND FEEDER AS INDICATED TO SERVE NEW STEP-DOWN TRANSFORMER.
4. PROVIDE NEW PAD MOUNTED STEP-DOWN 225KVA TRANSFORMER RATED 480V DELTA TO 208V WYE. POWER SMITHS E-SAVER 2016-HP. MAINTAIN ALL CLEARANCES AND PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES. REFER TO SPECIFICATION FOR ADDITIONAL TRANSFORMER CRITERIA.
5. PROVIDE NEW 120/208V PANELBOARD AND ALLOW FOR MOUNTING AREA FOR FUTURE SECTION 2. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.
6. PROVIDE NEW 3P-200AMP BREAKER IN AVAILABLE SPACE. PROVIDE CONDUIT AND WIRE SIZED AS INDICATED. REFER TO FLOOR PLANS FOR CONDUIT RUN.
7. PROVIDE NEW 120/208V PANELBOARD. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

Revision Schedule

No.	Description	Date
1	SED Submission	09/15/2020
2	SED Submission Addendum#1	01/08/2021
3	ISSUED FOR BID	01/19/2021
4	BID ADDENDUM #1	01/29/2021

Geddis Architects
Architecture. Planning. Interiors
71 Old Post Road
P.O. Box 1020
Southport, CT 06890
(203) 256-8700

Fielding International
Transforming Education by Design
259 Water Street Suite 1L
Warren , RI 02885 USA
+1 401-289-2789

BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Construction Manager
SAVIN ENGINEERS, P.C.
3 Campus Drive
Pleasantville, NY 10570
914-769-3200

Structural Engineer
ODEH ENGINEERS
1223 Mineral Spring Ave
North Providence, RI 02904
401-724-1771

Civil Engineer
WESTON & SAMPSON
1 Winners Circle, Suite 130
Albany, NY 12205
518-463-4400

Acoustic Consultant
DP DESIGN
12 Cold Spring Street
Providence, RI
401-861-3218

SED #: 6618-0001-0005-031

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL PART ELECTRICAL RISER

SEAL & SIGNATURE

DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-501

(NEW) ELECTRICAL PANEL SCHEDULE (HIGH SCHOOL)

PNL: BP-HV
480Y/277, 3 PHASE, 4 WIRE
22 ,000MIN A.I.C. SYM
NEUTRAL: 100%

MOUNTING: SURFACE X | (NEMA 1) FLUSH | IN MCC
MAIN LUGS ONLY | DOUBLE LUGS | FEED THRU LUG | SHUNT TRIP MAIN
MAIN C BKR- 200A/3P | MAIN BUS - 200 A
GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 42

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA/PHASE A	B	C	KVA/PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	3		-	-	10.8						-	-		3	2
3		HWP-1	3#0+1#10G	3/4		10.8					3/4	3#0+1#10G	HWP-2		4
5	50		-	-			10.8				-	-		50	6
7	3		-	-	7.21						-	-		3	8
9		HWP-3	3#10+1#10G	3/4		7.21					3/4	3#10+1#10G	HWP-4		10
11	30		-	-			7.21				-	-		30	12
13	3		-	-	7.21						-	-		3	14
15		HWP-5	3#10+1#10G	3/4		7.21					3/4	3#10+1#10G	HWP-6		16
17	30		-	-			7.21				-	-		30	18
19	3		-	-	0.69			0.69			-	-		3	20
21		HWP-7	3#12+1#12G	3/4		0.69			0.69		3/4	3#12+1#12G	HWP-8		22
23	20		-	-			0.69			0.69	-	-		20	24
25	3		-	-	0.69						-	-	SPARE	20	26
27		HWP-9	3#12+1#12G	3/4		0.69					-	-	SPARE	20	28
29	20		-	-			0.69				-	-	SPARE	20	30
31	20	SPARE	-	-							-	-	SPARE	20	32
33	20	SPARE	-	-							-	-	SPARE	20	34
35	20	SPARE	-	-							-	-	SPARE	20	36
37	20	SPARE	-	-							-	-	SPARE	20	38
39	20	SPARE	-	-							-	-	SPARE	20	40
41	20	SPARE	-	-							-	-	SPARE	20	42
		SUBTOTALS			26.6	26.6	26.6	0.7	0.7	0.7			SUBTOTALS		

TOTAL LOADS	27.3 KVA	PHASE A	LIGHTING: 0.00 KVA
	27.3 KVA	PHASE B	RECEPTACLE: 0.00 KVA
	27.3 KVA	PHASE C	KITCHEN: 0.00 KVA
TOTAL CONN. LOAD	82 KVA	99 A	MOTOR: 81.90 KVA
TOTAL DEMAND LOAD	82 KVA	99 A	POWER: 0.00 KVA
			TOTAL: 81.90 KVA

(NEW) ELECTRICAL PANEL SCHEDULE (HIGH SCHOOL)

PNL: MP-HV-2A
480Y/277, 3 PHASE, 4 WIRE
65 ,000MIN A.I.C. SYM
NEUTRAL: 100%

MOUNTING: SURFACE X | (NEMA 1) FLUSH | IN MCC
MAIN LUGS ONLY | DOUBLE LUGS | FEED THRU LUG | SHUNT TRIP MAIN
MAIN C BKR- 800A/3P | MAIN BUS - 800 A
GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 42

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA/PHASE A	B	C	KVA/PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	3				4.5			16.6			-			3	2
3		CU-8	3#12+1#12G	3/4		4.5			16.6		3/4	3#8+1#8G	RTU-1		4
5	25					4.5				16.6	-			80	6
7	3				4.5			16.6			-			3	8
9		CU-9	3#10+1#10G	3/4		4.5			16.6		3/4	3#4+1#8G	RTU-2		10
11	25						4.5			16.6	-			80	12
13	3				11.4			7.90			-			3	14
15		CU-6	3#8+1#10G	3/4		11.4			7.90		3/4	3#8+1#10G	CU-13		16
17	50						11.4			7.90	-			35	18
19	3				8.80			11.4			-			3	20
21		ERU-6	3#8+1#10G	3/4		8.80			11.4		3/4	3#8+1#10G	CU-5		22
23	35						8.80			11.4	-			50	24
25	20	SPARE	-	-							-	-	SPARE	20	26
27	20	SPARE	-	-							-	-	SPARE	20	28
29	20	SPARE	-	-							-	-	SPARE	20	30
31	20	SPARE	-	-							-	-	SPARE	20	32
33	20	SPARE	-	-							-	-	SPARE	20	34
35	20	SPARE	-	-							-	-	SPARE	20	36
37	20	SPARE	-	-							-	-	SPARE	3	38
39	20	SPARE	-	-							-	SEE RISER	TRANSFORMER FOR PP-MV-2A	350	40
41	20	SPARE	-	-							-				42
		SUBTOTALS			29.2	29.2	29.2	52.5	52.5	52.5			SUBTOTALS		

TOTAL LOADS	81.7 KVA	PHASE A	LIGHTING: 0.00 KVA
	81.7 KVA	PHASE B	RECEPTACLE: 0.00 KVA
	81.7 KVA	PHASE C	KITCHEN: 0.00 KVA
TOTAL CONN. LOAD	245 KVA	295 A	MOTOR: 245.10 KVA
TOTAL DEMAND LOAD	245 KVA	295 A	POWER: 0.00 KVA
			TOTAL: 245.10 KVA

(NEW) ELECTRICAL PANEL SCHEDULE (HIGH SCHOOL)

PNL: PP-SEC
208Y/120, 3 PHASE, 4 WIRE
22 ,000MIN A.I.C. SYM
NEUTRAL: 100%

MOUNTING: SURFACE X | (NEMA 1) FLUSH | IN MCC
MAIN LUGS ONLY | DOUBLE LUGS | FEED THRU LUG | SHUNT TRIP MAIN
MAIN C BKR- 100A/3P | MAIN BUS - 225 A
GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 42

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA/PHASE A	B	C	KVA/PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	20	SEC RECEPT	2#12+1#12G	3/4							3/4	2#12+1#12G	ENTRANCE RECEPT	20	2
3	20	SEC RECEPT	2#12+1#12G	3/4							3/4	2#12+1#12G	DRINKING FOUNTAIN	20	4
5	20	SEC RECEPT	2#12+1#12G	3/4							0.18	3/4	2#12+1#12G	ERU-10	20	6
7	20	SEC RECEPT	2#12+1#12G	3/4							0.10	3/4	2#12+1#12G	HP-B	2	8
9	2	ERU-3	2#12+1#12G	3/4	1.04						0.10	-	-		20	10
11	15			-	-	1.04					1.00	3/4	2#12+1#12G	FIRE DOOR	20	12
13	20	SPARE	-	-	0.50			1.00				3/4	2#12+1#12G	CP-1	20	14
15	20	SPARE	-	-							0.50	3/4	2#12+1#12G	EF-5	20	16
17	20	SPARE	-	-								-	-	SPARE	20	18
19	20	SPARE	-	-								-	-	SPARE	20	20
21	20	SPARE	-	-								-	-	SPARE	20	22
23	20	SPARE	-	-								-	-	SPARE	20	24
25	20	SPARE	-	-								-	-	SPARE	20	26
27	20	SPARE	-	-								-	-	SPARE	20	28
29	20	SPARE	-	-								-	-	SPARE	20	30
31	20	SPARE	-	-								-	-	SPARE	20	32
33	20	SPARE	-	-								-	-	SPARE	20	34
35	20	SPARE	-	-								-	-	SPARE	20	36
37	20	SPARE	-	-								-	-	SPARE	20	38
39	20	SPARE	-	-								-	SEE RISER	TRANSFORMER FOR PP-MV-A	350	40
41	20	SPARE	-	-								-				42
		SUBTOTALS			0.50	1.04	1.04	1.10	0.60	1.18			SUBTOTALS		

TOTAL LOADS	1.6 KVA	PHASE A	LIGHTING: 0.00 KVA
	1.6 KVA	PHASE B	RECEPTACLE: 0.00 KVA
	2.2 KVA	PHASE C	KITCHEN: 0.00 KVA
TOTAL CONN. LOAD	5.5 KVA	14.0 A	MOTOR: 3.96 KVA
TOTAL DEMAND LOAD	5.0 KVA	14.0 A	POWER: 1.00 KVA
< Load & Total not equal >			TOTAL: 4.96 KVA

(NEW) ELECTRICAL PANEL SCHEDULE (HIGH SCHOOL)

PNL: PP-3
208Y/120, 3 PHASE, 4 WIRE
42 ,000MIN A.I.C. SYM
NEUTRAL: 100%

MOUNTING: SURFACE X | (NEMA 1) FLUSH | IN MCC
MAIN LUGS ONLY | DOUBLE LUGS | FEED THRU LUG | SHUNT TRIP MAIN
MAIN C BKR- 400A/3P | MAIN BUS - 400 A
GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 42

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA/PHASE A	B	C	KVA/PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	20	ROOM RECEPT	2#12+1#12G	3/4	1.62			0.50			3/4	2#12+1#12G	MAG HOLDERS	20	2
3	20	ROOM RECEPT	2#12+1#12G	3/4		1.62			0.97		3/4	2#12+1#12G	LEARING SUITE	20	4
5	20	COORDIOR RECEPT	2#12+1#12G	3/4			1.62			1.00	3/4	2#12+1#12G	CORRIDOR	20	6
7	20	COORDIOR RECEPT	2#12+1#12G	3/4	1.44			0.21			3/4	2#12+1#12G	HP-A, B	2	8
9	20	COORDIOR RECEPT	2#12+1#12G	3/4		1.20			0.21		-	-		20	10
11	20	COORDIOR RECEPT	2#12+1#12G	3/4			1.08			1.00	3/4	2#12+1#12G	CORRIDOR RECEPT	20	12
13	20	COORDIOR RECEPT	2#12+1#12G	3/4	1.20			0.21			3/4	2#12+1#12G	HP-A,C	2	14
15	20	AV RACK	2#12+1#12G	3/4		1.00			0.21		-	-		20	16
17	20	AV RACK	2#12+1#12G	3/4			1.00			1.90	3/4	2#12+1#12G	ERU-8	2	18
19	20	AV RACK	2#12+1#12G	3/4	1.00			1.90			-	-		25	20
21	20	OUTDOOR RECEPT	2#12+1#12G	3/4		1.00			0.80		3/4	2#12+1#12G	ELEV SHAFT LGT	20	22
23	20	FSD	2#12+1#12G	3/4			0.50			0.18	3/4	2#12+1#12G	ELEV SHAFT POWER	20	24
25	20	EF-4	2#12+1#12G	3/4	0.50			1.00			3/4	2#12+1#12G	TELECOIL	2	26
27	20	FLAT PANEL	2#12+1#12G	3/4		1.00			1.00		-	-		20	28
29	20	FLAT PANEL	2#12+1#12G	3/4			1.00			1.00	3/4	2#12+1#12G	FLAT PANEL	20	30
31	20	FLAT PANEL	2#12+1#12G	3/4	1.00			1.00			3/4	2#12+1#12G	FLAT PANEL	20	32
33	20	FLAT PANEL	2#12+1#12G	3/4		1.00			1.00		3/4	2#12+1#12G	FLAT PANEL	20	34
35	20	AV RACK	2#12+1#12G	3/4			1.00			1.00	3/4	2#12+1#12G	FLAT PANEL	20	36
37	20	Elev CAB LIGHTING	2#12+1#12G	3/4	0.50			0.50			3/4	2#12+1#12G	CH-A	20	38
39	20	SPARE	-	-							-	-	SPARE	20	40
41	20	SPARE	-	-							-	-	SPARE	20	42
		SUBTOTALS			7.26	6.82	6.20	5.32	4.19	6.08			SUBTOTALS		

TOTAL LOADS	12.6 KVA	PHASE A	LIGHTING: 2.77 KVA
	11.0 KVA	PHASE B	RECEPTACLE: 11.08 KVA
	12.3 KVA	PHASE C	KITCHEN: 0.00 KVA
TOTAL CONN. LOAD	35.9 KVA	### A	MOTOR: 5.14 KVA
TOTAL DEMAND LOAD	35.3 KVA	98.0 A	POWER: 16.88 KVA
			TOTAL: 35.87 KVA

(NEW) ELECTRICAL PANEL SCHEDULE (HIGH SCHOOL)

PNL: MH-HV-2B
480Y/277, 3 PHASE, 4 WIRE
65 ,000MIN A.I.C. SYM
NEUTRAL: 100%

MOUNTING: SURFACE X | (NEMA 1) FLUSH | IN MCC
MAIN LUGS ONLY | DOUBLE LUGS | FEED THRU LUG | SHUNT TRIP MAIN
MAIN C BKR- 800A/3P | MAIN BUS - 800 A
GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 42

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA/PHASE A	B	C	KVA/PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	3		-	-	10.6			10.6			-	-		3	2
3		CU-1	3#8+1#10G	3/4		10.6			10.6		3/4	3#8+1#10G	CU-10		4
5	50		-	-			10.6			10.6	-	-		50	6
7	3		-	-	10.6			9.90			-	-		3	8
9		CU-2	3#8+1#10G	3/4		10.6			9.90		3/4	3#8+1#10G	CU-12		10
11	50		-	-			10.6			9.90	-	-		50	12
13	3		-	-	8.9			3.60			-	-		3	14
15		ERU-1	3#8+1#10G	3/4		8.9			3.60		3/4	3#12+1#12G	CU-14		16
17	35		-	-			8.9			3.60	-	-		20	18
19	3		-	-	8.9			12.0			-	-		3	20
21		ERU-2	3#8+1#10G	3/4		8.9			12.0		3/4	4#3/0+1#6G	BP-HV		22
23	35		-	-			8.9			12.0	-	-		200	24
25	20	SPARE	-	-				8.50			-	-		3	26
27	20	SPARE	-	-					8.50		1	3#6+1#10G	ELEVATOR		28
29	20	SPARE	-	-						8.50	-	-		60	30
31	20	SPARE	-	-							-	-	SPARE	20	32
33	20	SPARE	-	-							-	-	SPARE	20	34
35	20	SPARE	-	-							-	-	SPARE	20	36
37	20	SPARE	-	-							-	-	SPARE	3	38
39	20	SPARE	-	-							-	SEE RISER	TRANSFORMER FOR PP-MV-2B	350	40
41	20	SPARE	-	-							-				42
		SUBTOTALS			39.0	39.0	39.0	44.6	44.6	44.6			SUBTOTALS		

TOTAL LOADS	83.6 KVA	PHASE A	LIGHTING: 0.00 KVA
	83.6 KVA	PHASE B	RECEPTACLE: 0.00 KVA
	83.6 KVA	PHASE C	KITCHEN: 0.00 KVA
TOTAL CONN. LOAD	251 KVA	302 A	MOTOR: 214.83 KVA
TOTAL DEMAND LOAD	251 KVA	302 A	POWER: 36.00 KVA
			TOTAL: 250.83 KVA

(NEW) ELECTRICAL PANEL SCHEDULE (HIGH SCHOOL)

PNL: MP-HV-1A
480Y/277, 3 PHASE, 4 WIRE
65 ,000MIN A.I.C. SYM
NEUTRAL: 100%

MOUNTING: SURFACE X | (NEMA 1) FLUSH | IN MCC
MAIN LUGS ONLY | DOUBLE LUGS | FEED THRU LUG | SHUNT TRIP MAIN
MAIN C BKR- 800A/3P | MAIN BUS - 800 A
GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 42

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA/PHASE A	B	C	KVA/PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	3		-	-	12.0			3.50			-	-		3	2
3		BP-HV	4#3/0+1#6G	2		12.0			3.50		3/4	3#10+1#10G	CU-8		4
5	200		-	-			12.0			3.50	-	-		25	6
7	3		-	-	24.0			3.50			-	-		3	8
9		RTU-1	3#3/0+1#6G	2		24.0			3.50		3/4	3#10+1#10G	CU-9		10
11	200		-	-			24.0			3.50	-	-		25	12
13	3		-	-	24.0						-	-	SPARE	20	14
15		RTU-2	3#3/0+1#6G	2		24.0					-	-	SPARE	20	16
17	200		-	-			24.0				-	-	SPARE	20	18
19	20	SPARE	-	-							-	-	SPARE	20	20
21	20	SPARE	-	-							-	-	SPARE	20	22
23	20	SPARE	-	-							-	-	SPARE	20	24
25	20	SPARE	-	-							-	-	SPARE	20	26
27	20	SPARE	-	-							-	-	SPARE	20	28
29	20	SPARE	-	-							-	-	SPARE	20	30
31	20	SPARE	-	-							-	-	SPARE	20	32
33	20	SPARE	-	-							-	-	SPARE	20	34
35	20	SPARE	-	-							-	-	SPARE	20	36
37	20	SPARE	-	-							-	-	SPARE	3	38
39	20	SPARE	-	-							-	SEE RISER	TRANSFORMER FOR PP-MV-A	350	40
41	20	SPARE	-	-							-				42
		SUBTOTALS			60.0	60.0	60.0	7.00	7.00	7.00			SUBTOTALS		

TOTAL LOADS	67.0 KVA	PHASE A	LIGHTING: 0.00 KVA
	67.0 KVA	PHASE B	RECEPTACLE: 0.00 KVA
	67.0 KVA	PHASE C	KITCHEN: 0.00 KVA
TOTAL CONN. LOAD	201 KVA	242 A	MOTOR: 165.00 KVA
TOTAL DEMAND LOAD	201 KVA	242 A	POWER: 36.00 KVA
			TOTAL: 201.00 KVA

(NEW) ELECTRICAL PANEL SCHEDULE (HIGH SCHOOL)

PNL: BP-MV
208Y/120, 3 PHASE, 4 WIRE
22 ,000MIN A.I.C. SYM
NEUTRAL: 100%

MOUNTING: SURFACE X | (NEMA 1) FLUSH | IN MCC
MAIN LUGS ONLY | DOUBLE LUGS | FEED THRU LUG | SHUNT TRIP MAIN
MAIN C BKR- 100A/3P | MAIN BUS - 100 A
GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 24

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA/PHASE A	B	C	KVA/PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	30	BOILER 1	2#10+1#10G	3/4	2.40			2.40			3/4	2#10+1#10G	BOILER 3	30	2
3		SHUNT TRIP											SHUNT TRIP		4
5	20	SPARE	-	-						0.40	3/4	2#12+1#12G	EPO	20	6
7	20	BOILER 2	2#10+1#10G	3/4	2.40			0.40			3/4	2#12+1#12G	GAS DETECTOR	20	8
9		SHUNT TRIP								1.00	3/4	2#12+1#12G	CHEMICAL FEED	20	10
11	20	SPARE	-	-							-	-	SPARE	20	12
13	20	SPARE	-	-							-	-	SPARE	20	14
15	20	SPARE	-	-							-	-	SPARE	20	16
17	20	SPARE	-	-							-	-	SPARE	20	18
19	20	SPARE	-	-							-	-	SPARE	20	20
21	20	SPARE	-	-							-	-	SPARE	20	22
23	20	SPARE	-	-							-	-	SPARE	20	24
		SUBTOTALS			4.80	0.00	0.00	2.80	1.00	0.40			SUBTOTALS		

TOTAL LOADS	7.6 KVA	PHASE A	LIGHTING: 0.00 KVA
	1.0 KVA	PHASE B	RECEPTACLE: 1.40 KVA
	0.4 KVA	PHASE C	KITCHEN: 0.00 KVA
TOTAL CONN. LOAD	9.0 KVA	25.0 A	MOTOR: 4.80 KVA
TOTAL DEMAND LOAD	9.0 KVA	25.0 A	POWER: 2.80 KVA
			TOTAL: 9.00 KVA

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

LIGHTING FIXTURE SCHEDULE

TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
R1	CEILING RECESSED MOUNTED	31 WATTS LED UNV	2X2 RECESSED FIXTURES . 4000 LUMENS, 3500K COLOR TEMP. 80 CRI. WITH DRYWALL ADAPTER	MANUFACTURER: LITHONIA LIGHTING EPANL-2X2-4000LM-80CRI-35K-MIN1-ZT-MVOLT-E10WCP-GOA2
R1 EM	CEILING RECESSED MOUNTED	31 WATTS LED UNV	SAME AS FIXTURE "R1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: LITHONIA LIGHTING EPANL-2X2-4000LM-80CRI-35K-MIN1-ZT-MVOLT-E10WCP-GOA2
R2	CEILING RECESSED MOUNTED	46 WATTS LED UNV	2X2 RECESSED FIXTURES . 4800 LUMENS, 3500K COLOR TEMP. WITH GRID ADAPTOR.	MANUFACTURER: MARK LIGHTING WHSPR-2X2-90CRI-35K-4800LM-MIN1-MVOLT-SWC
R2 EM	CEILING RECESSED MOUNTED	46 WATTS LED UNV	SAME AS FIXTURE "R2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: MARK LIGHTING WHSPR-2X2-90CRI-35K-4800LM-MIN1-MVOLT-SWC
R4	CEILING RECESSED MOUNTED	10 WATTS LED UNV	6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP.	MANUFACTURER: CALIBER PLUS 6SQLBV-10-35K-E1-DA
R4 EM	CEILING RECESSED MOUNTED	10 WATTS LED UNV	SAME AS FIXTURE "R4" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: CALIBER PLUS 6SQLBV-10-35K-E1-DA
R4B	CEILING RECESSED MOUNTED	20 WATTS LED UNV	6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP.	MANUFACTURER: CALIBER PLUS 6SQLBV-20-35K-E1-DA
R4B EM	CEILING RECESSED MOUNTED	20 WATTS LED UNV	SAME AS FIXTURE "R4B" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: CALIBER PLUS 6SQLBV-20-35K-E1-DA
R5	CEILING RECESSED MOUNTED	10 WATTS LED UNV	6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP.	MANUFACTURER: CALIBER PLUS 6SQLBV-10-35K-E1-DA
R5 EM	CEILING RECESSED MOUNTED	10 WATTS LED UNV	SAME AS FIXTURE "R5" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: CALIBER PLUS 6SQLBV-10-35K-E1-DA
R8	CEILING RECESSED MOUNTED	14 WATTS LED UNV	4" ROUND RECESSED DOWNLIGHT,STATIC WHITE FINISH. 80 CRI. 3500 COLOR TEMPERATURE.	MANUFACTURER: LUMENWERX VO4RR-GF-ADJ-UNV-14W-D1-VO4-SW-60-2-80-35-LS-VO4RRB-SDL-SR-TMW-TRM-TMW
R8 EM	CEILING RECESSED MOUNTED	14 WATTS LED UNV	SAME AS FIXTURE "R8" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: LUMENWERX VO4RR-GF-ADJ-UNV-14W-D1-VO4-SW-60-2-80-35-LS-VO4RRB-SDL-SR-TMW-TRM-TMW
R9	CEILING RECESSED MOUNTED	12 WATTS LED UNV	15/16" 35K COLOR TEMPERATURE. 80 CRI.	MANUFACTURER: TBAR FLEX MODEL #TBFL-MW-22-24-D-A-W
R9 EM	CEILING RECESSED MOUNTED	12 WATTS LED UNV	SAME AS FIXTURE "R9" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: TBAR FLEX MODEL #TBFL-MW-22-24-D-A-W
R10	SURFACE REGRESSED MOUNTED	1.4 W/FT LED 24V	FLEXIBLE LIGHTING SYSTEM. 80 LUMENS PER FOOT. 35K COLOR TEMPERATURE. 80 CRI.	MANUFACTURER: KELVIX SW1-SEE PLAN-35K-E-S-IP67
R10 EM	SURFACE REGRESSED MOUNTED	1.4 W/FT LED 24V	SAME AS FIXTURE "R10" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: KELVIX SW1-SEE PLAN-35K-E-S-IP67
P1	CEILING PENDANT MOUNTED	50 WATTS LED UNV	8' PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 8 FEET LONG.	MANUFACTURER: AXIS LIGHTING STLDI-8-SLI-500-DML-600-80-35-W-UNV
P1 EM	CEILING PENDANT MOUNTED	50 WATTS LED UNV	SAME AS FIXTURE "P1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: AXIS LIGHTING STLDI-8-SLI-500-DML-600-80-35-W-UNV
P2	CEILING PENDANT MOUNTED	50 WATTS LED UNV	6' PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 6 FEET LONG.	MANUFACTURER: AXIS LIGHTING STLDI-6-SLI-500-DML-600-80-35-W-UNV
P2 EM	CEILING PENDANT MOUNTED	50 WATTS LED UNV	SAME AS FIXTURE "P2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: AXIS LIGHTING STLDI-6-SLI-500-DML-600-80-35-W-UNV
P3	CEILING PENDANT MOUNTED	35 WATTS LED UNV	4'PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 4 FEET LONG.	MANUFACTURER: AXIS LIGHTING STLDI-4-SLI-500-DML-600-80-35-W-UNV
P3 EM	CEILING PENDANT MOUNTED	35 WATTS LED UNV	SAME AS FIXTURE "P3 EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: AXIS LIGHTING STLDI-4-SLI-500-DML-600-80-35-W-UNV
P4	CEILING PENDANT MOUNTED	87 WATTS LED UNV	CONTINUOS LINEAR SLOT DIRECT/INDIRECT WALL LIGHT. 400 LUMENS PER FOOT DIRECT AND 600 LUMENS PER FOOT INDIRECT. 35K COLOR TEMPERATURE. 90 CRI. LENGTHS AS PER PLAN	MANUFACTURER: MARK LIGHTING S1LIDP-OPP-PER PLAN-90CRI-35K-200LMF-I90CRI-I35K-I400LMF-MIN1-MVOLT-WHT-36A-RDCY-WHTCY-WCRD
P4 EM	CEILING PENDANT MOUNTED	87 WATTS LED UNV	SAME AS FIXTURE "P4" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: MARK LIGHTING S1LIDP-OPP-XXFT-90CRI-35K-200LMF-I90CRI-I35K-I400LMF-MIN1-MVOLT-WHT-36A-RDCY-WHTCY-WCRD
P5-B