

LEGEND

SQUARE DUCT TURN WITH TURNING VANES

TYPE -SEE SCHEDULE NEW 4—WAY CEILING DIFFUSER

TYPE -SEE SCHEDULE NEW 3—WAY CEILING DIFFUSER

TYPE -SEE SCHEDULE NEW 2-WAY CEILING DIFFUSER

-POINT OF CHANGE IN DUCT SIZE NEW DUCTWORK \_1" THERMAL ACOUSTIC LINING—DUCT SIZES ON PLANS ARE CLEAR INSIDE DIMENSIONS

## ISSUED FOR BID H2-101 H2-101 **8**// 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

Revision Schedule

Description

**SED Submission** 

SED Submission Addendum#1

Date

09/15/2020

01/08/2021

01/19/2021

REMOVAL NOTES:

PROJECT 1: ALL WORK NOT INCLUDED IN PROJECTS 2, 3 & 4 LISTED

PROJECT 2: MIDDLE SCHOOL I-LAB AND UPGRADE TO 2ND FLOOR MECHANICAL ROOM INCLUDING 1ST FLOOR GUIDANCE CEILING WORK PROJECT 3: NEW ELEVATOR AND 3RD FLOOR LEARNING COMMONS PROJECT 4: MIDDLE SCHOOL MASONRY RESTORATION AND ROOF

BID PROJECTS

REPLACEMENT

ALTERNATE 4A: MIDDLE SCHOOL MASONRY RESTORATIONS - TOWER VENEER REPLACEMENT AND NEW WINDOWS

- (1) THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED MECHANICAL DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMMODATE NEW WORK.
- 2 DEVICES SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.
- 3 EQUIPMENT, PIPING, ETC., REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE NEW SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS, NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.
- 4 ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
- 5 REMOVE OR RELOCATE ALL DEVICES LOCATED ON THE EXTERIOR OF THE BUILDING OR ON THE INTERIOR OF EXTERIOR WALLS AS REQUIRED TO ACCOMMODATE THE NEW BUILDING ADDITION OR TO ALLOW THE ADDITION OF DOORWAYS INTO THE NEW ADDITION.
- 6 EXISTING (STEAM TO HOT WATER) HEAT EXCHANGER, CONDENSATE RETURN PUMPS, EXPANSION TANK, AIR SEPARATÓR, ASSOCIATED HOT WATER CIRCULATION PUMPS, PIPING, STARTER/DISCONNECT SWITCH, CONTROLS AND ALL ASSOCIATED APPURTENANCES SHALL BE REMOVED IN THEIR ENTIRETY. CUT BACK AND CAP ASSOCIATED STEAM AND CONDENSATE PIPING TO EXISTING MAINS. CUT BACK AND CAP ASSOCIATED HOT WATER SUPPLY AND RETURN MAINS TO FACILITATE RECONNECTION TO NEW HOT WATER DISTRIBUTION SYSTEM. FOR EXISTING HOT WATER DISTRIBUTION SYSTEM (EHWP-10,11) SERVING THE HIGH SCHOOL SCIENCE WING SHALL REMAIN.
- (7) CONVERT EXISTING STEAM BOILER (B-1) (MODEL SMITH 6500-S-21 WITH EXISTING POWER FLAME BURNER C7-G0-30) FROM STEAM OPERATION TO HOT WATER OPERATION. CAP ASSOCIATED STEAM MAIN AND CONDENSATE RETURN MAIN CONNECTIONS ACCORDINGLY. REVISE DEDICATED BOILER MAKEUP PUMP CONTROLS FOR STANDBY USE WITH EXISTING STEAM HEATING PLANT. COORDINATE WITH BOILER MANUFACTURER TO GET RECOMMENDATIONS AND CONVERSION INSTRUCTIONS OF ALL COMPONENTS TO BE REPLACED. PROVIDE COMPLETE START UP AND TEST OF THE CONVERTED BOILER SYSTEM USING FACTORY AUTHORIZED SERVICE AGENT. SEE BOILER CONVERSION PIPING DIAGRAM FOR ADDITIONAL NOTES AND REQUIREMENTS.
- 8 EXISTING PUMPS (EHWP-10,11) SHALL BE INSPECTED, REFURBISHED TO EXISTING DESIGN CONDITIONS. REPAÌR PUMPS AS REQUIRED IF FOUND NOT OPERATING PROPERLY. PROVIDE INITIAL WATER BALANCING REPORT PRIOR TO HEAT EXCHANGER DEMOLITION FOR BASELINE OF EXISTING PUMP PERFORMANCES.

SED #: 6618-0001-0005-032

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SAVIN ENGINEERS, P.C

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 BASEMENT PLANS,

LEGEND AND NOTES

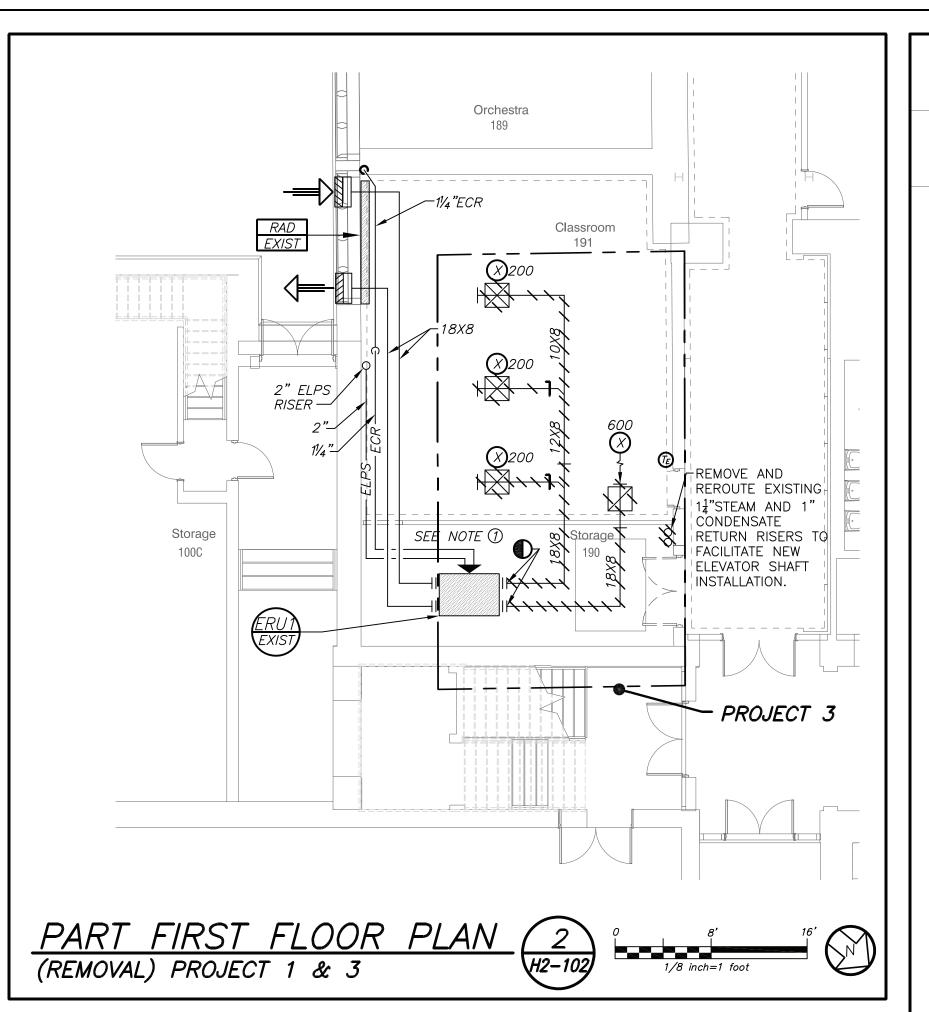
PROJECT 1

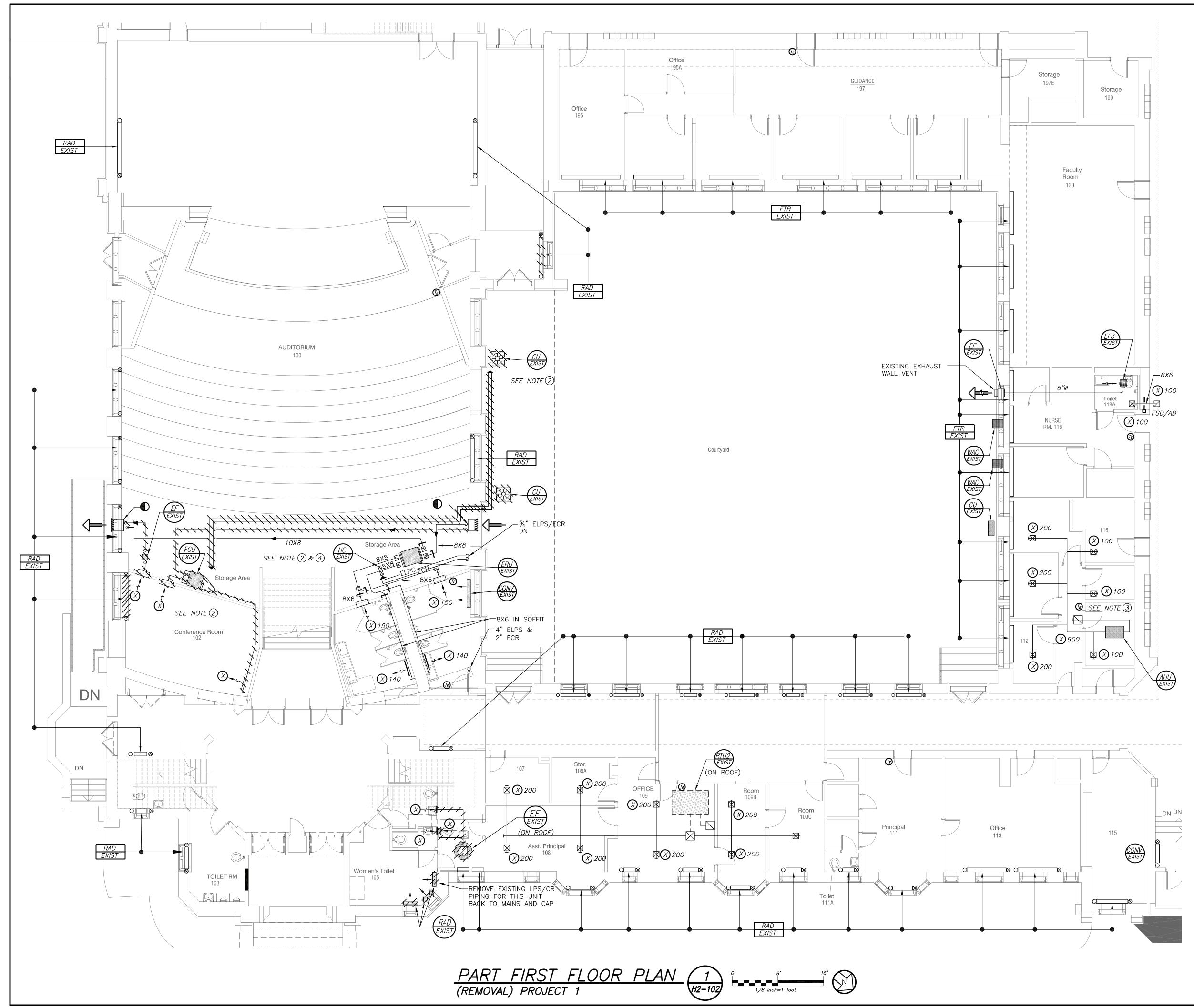
SEAL & SIGNATURE | DATE: PROJECT No: 9200 DRAWING BY: BGA CHK BY: BGA DWG No:

H2-101

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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- ② CUT BACK AND REMOVE EXISTING SPLIT SYSTEM AC UNIT, ASSOCIATED DUCTWORK, PIPING, SUPPORTS, CONTROLS, ETC. PATCH AND SEAL ALL WALL OPENING TO MATCH
- (3) REFURBISH EXISTING SPLIT SYSTEM UNITS SERVING OFFICES. VACUUM AND STEAM CLEAN INDOOR AND OUTDOOR UNIT COILS AND CASINGS, REPLACE AIR FILTERS

OUT BACK AND REROUTE ALL EXISTING DUCTWORK, PIPING, SUPPORTS, CONTROLS, ETC. TO FACILITATE NEW ELEVATOR SHAFT INSTALLATION. ALL REROUTED PIPING SHALL BE CONCEALED WITHIN IN WALLS, CEILING OR FINISHED PIPE ENCLOSURE.

EXISTING CONSTRUCTION

AND RE-BALANCE AIR FLOW TO INDICATED CFMS.

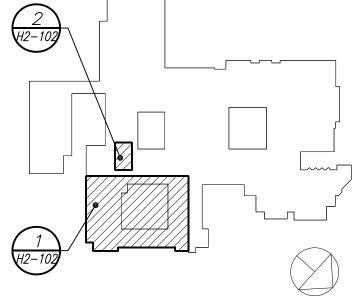
4 WORK IN THIS AREA IS BELOW AUDITORIUM SEATING WITHIN STORAGE AREA.

Date

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01/08/2021

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Revision Schedule

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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 & MIDDLE SCHOOL PART FIRST FLOOR PLAN

PROJECT 1&3

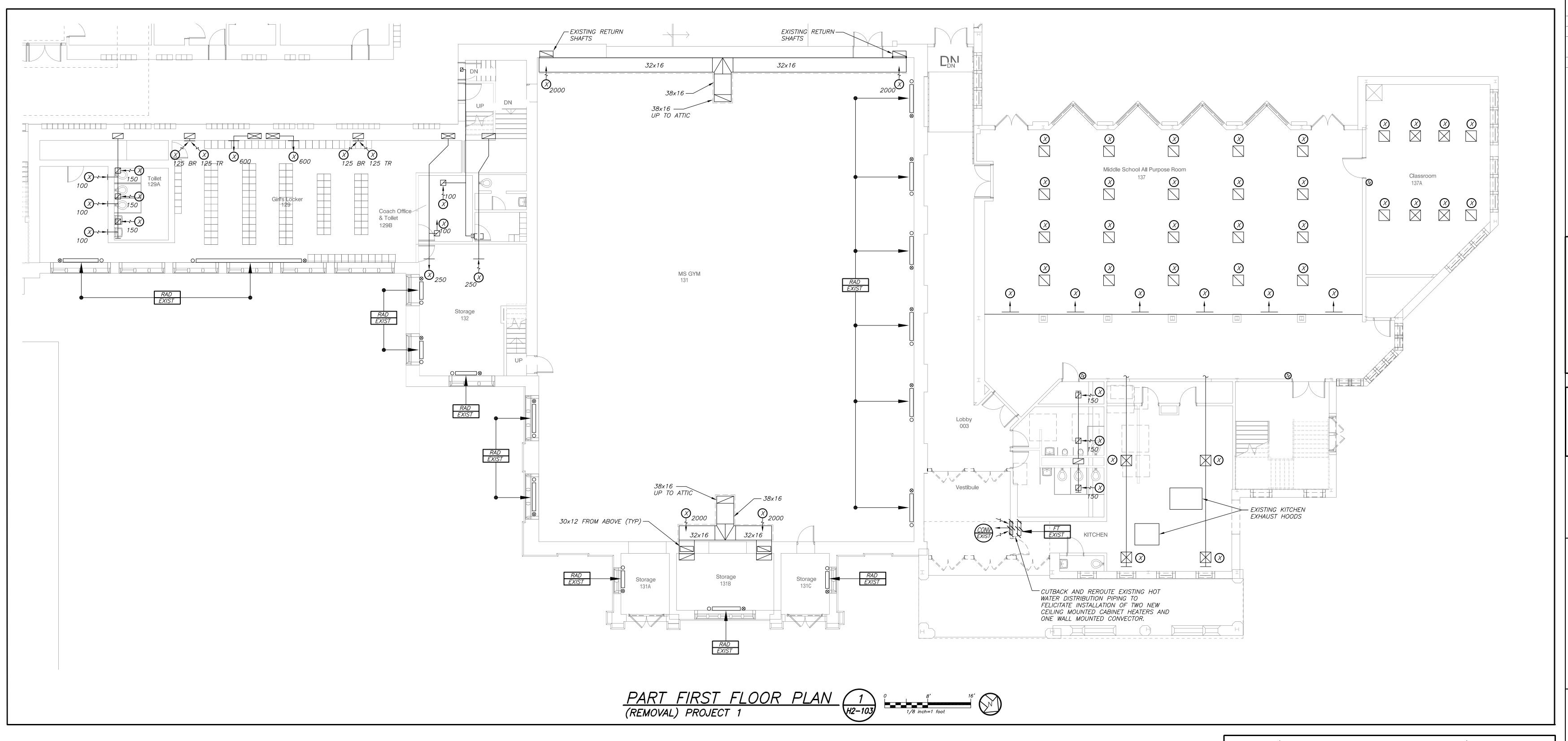
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DWG No:

H2-102

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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REMOVE EXISTING FIN TUBE RADIATION AND CABINET HEATERS. CUT BACK AND REROUTE STEAM AND CONDENSATE PIPING TO NEW HEATER LOCATIONS.

Revision Schedule

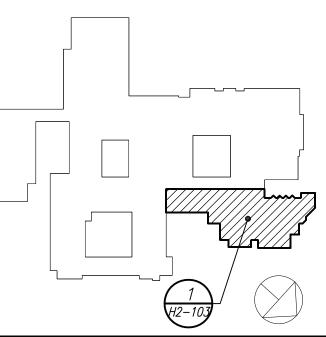
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SED Submission
Addendum#1

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HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN

PROJECT 1&3

SEAL & SIGNATURE

DATE: 11/07/19

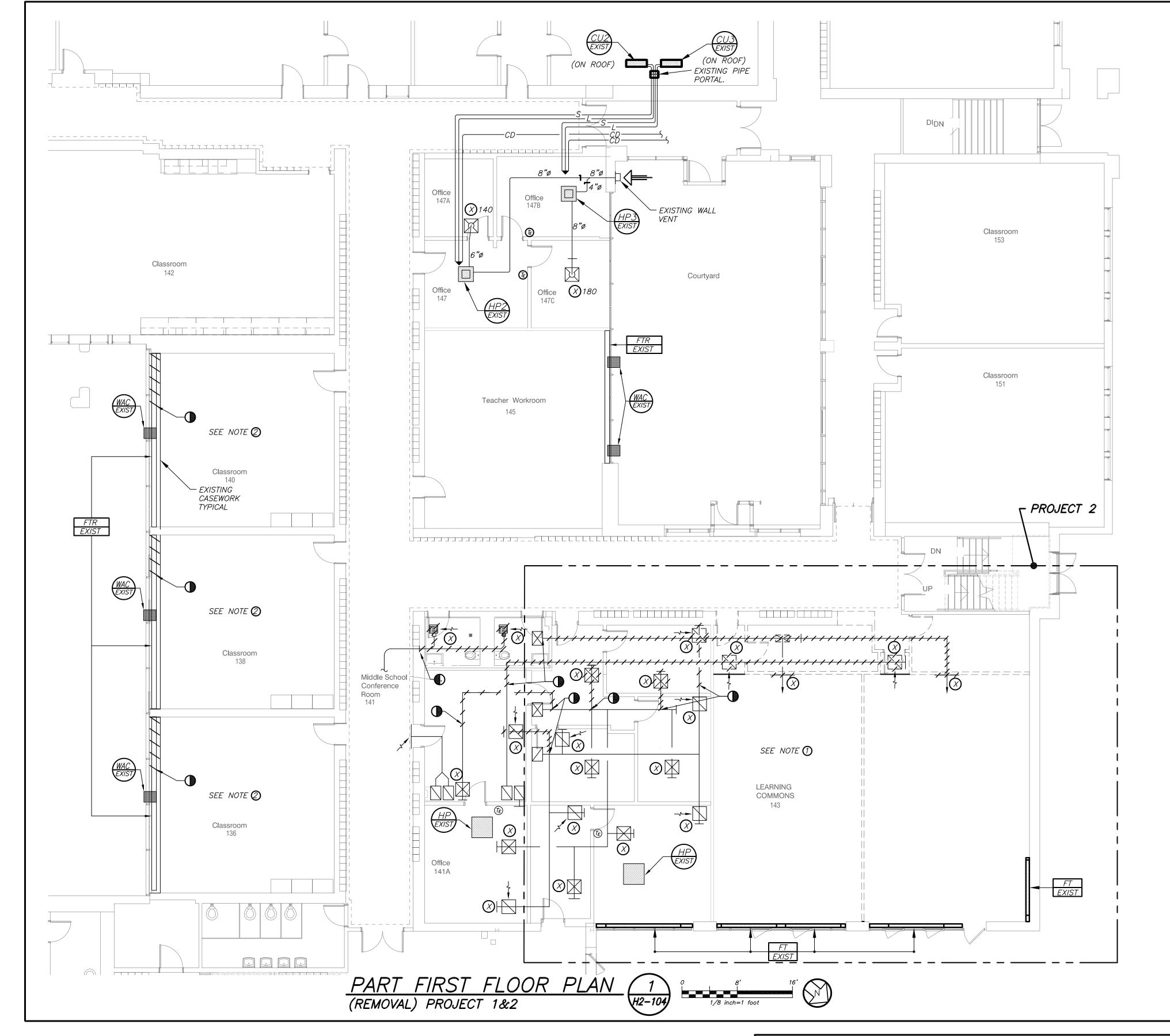
PROJECT No: 9200

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CHK BY: BGA

DWG No: H2-103

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



OUT BACK AND REROUTE EXISTING DUCTWORK, PIPING, SUPPORTS, CONTROLS, ETC. TO FACILITATE NEW CLASSROOM CONSTRUCTION AND ASSOCIATED HVAC WORK.

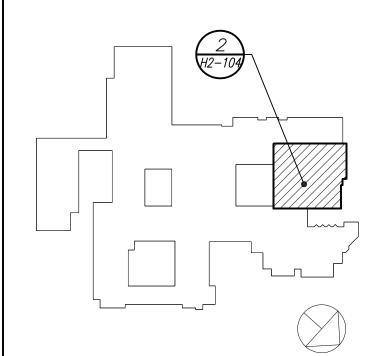
2 CUT AND MODIFY EXISTING WOOD CASEWORK SECTIONS AND FIN TUBE RADIATION PIPING TO FACILITATE NEW VERTICAL UNIT VENTILATOR INSTALLATION. CASEWORK SHALL BE MODIFIED TO BE FLUSH WITH SIDE IF UNIT VENTILATOR. CUT BACK AND MODIFY EXISTING TWO TIER FIN TUBE RADIATION PIPING. REROUTE EXISTING HOT WATER DISTRIBUTION PIPING BELOW FLOOR OR ABOVE CEILINGS ACCORDINGLY TO TIE INTO EXISTING MAINS. PATCH AND SEAL ANY SLAB OR WALL OPENINGS TO MATCH EXISTING CONSTRUCTION. RELOCATE EXISTING WINDOW UNITS WHERE IN CONFLICT WITH NEW UNIT VENTILATOR INSTALLATION.

Revision Schedule

Description SED Submission SED Submission Addendum#1

09/15/2020 ISSUED FOR BID 01/19/2021

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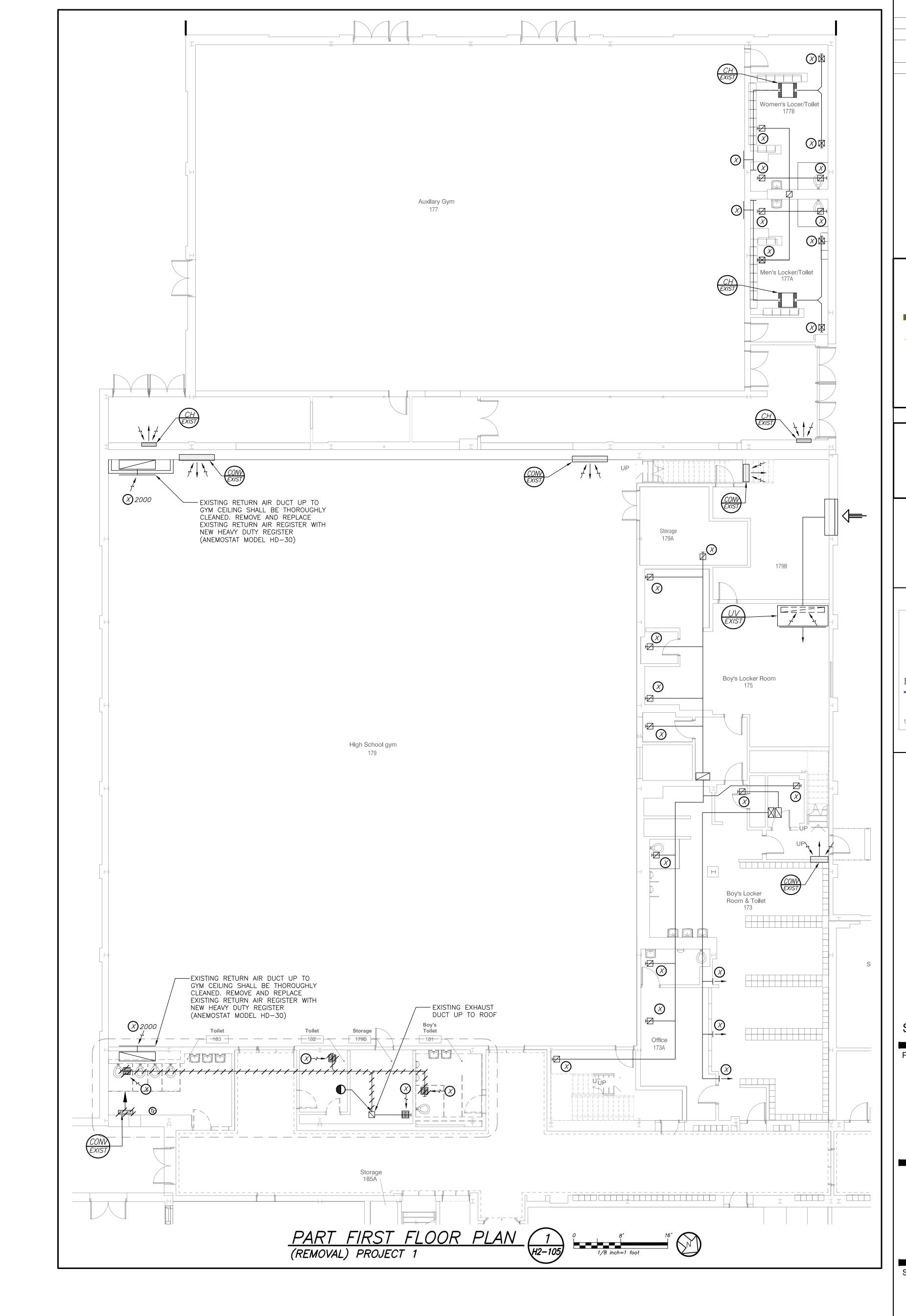
PROJECT 1&2

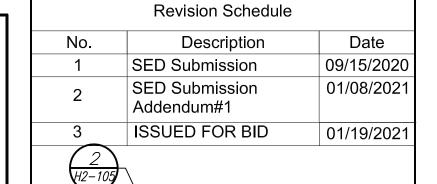
SEAL & SIGNATURE | DATE: PROJECT No: 9200 DRAWING BY: BGA CHK BY: BGA DWG No:

H2-104

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3 ISSUED FOR BID 01/19/202

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#### SED #: 6618-0001-0005-032

PROJECT

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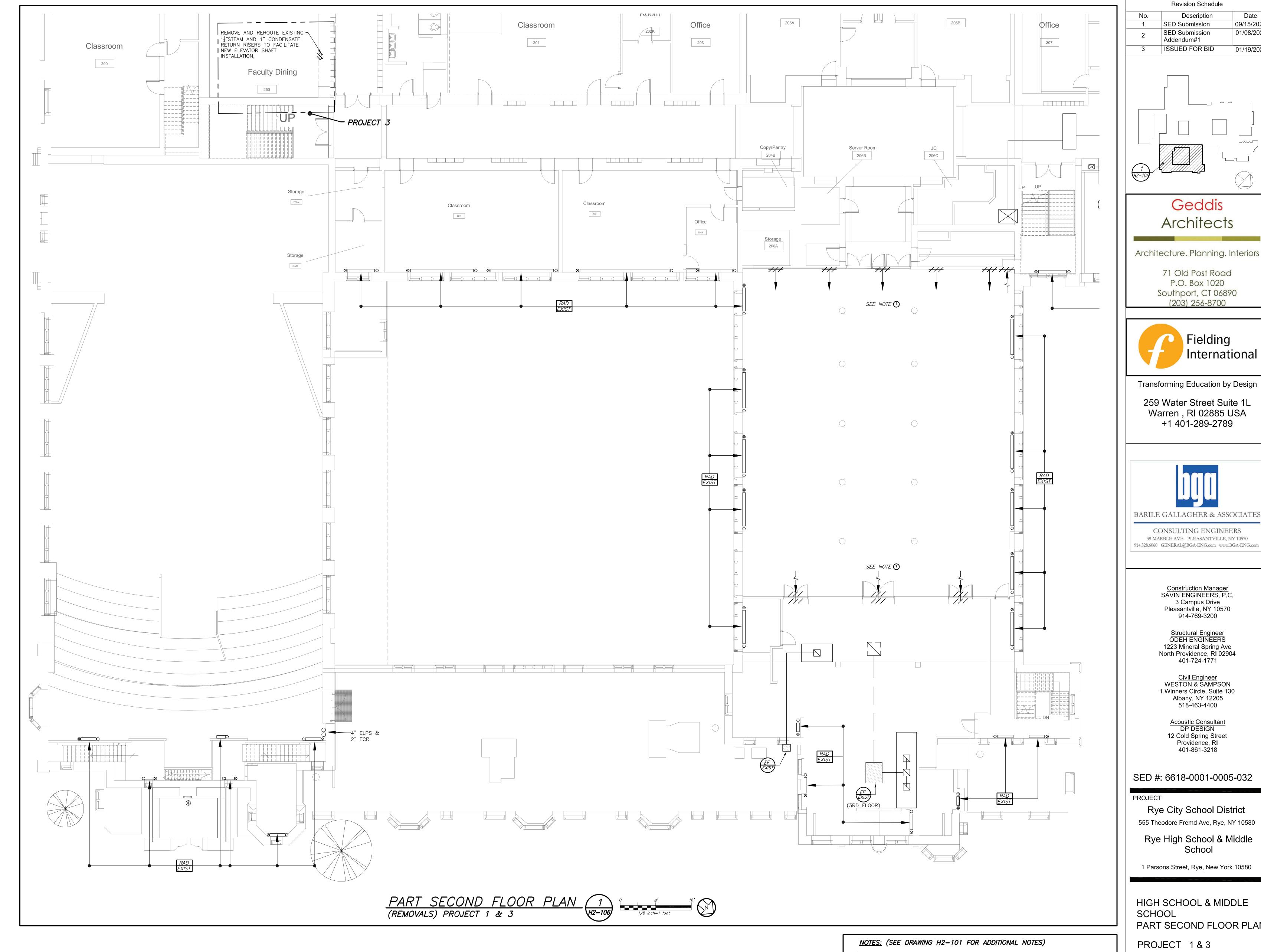
HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN

PROJECT 1

SEAL & SIGNATURE | DATE: 11/07/19 | PROJECT No: 9200 | DRAWING BY: BGA | CHK BY: BGA | DWG No: | H2-105

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VERIFY ALL MEASUREMENTS AND CONDITIONS ON
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① CUT BACK AND REMOVE EXISTING DUCTWORK SECTIONS TO FACILITATE NEW DUCTWORK DISTRIBUTION. REMOVE EXISTING TRANSFER REGISTERS AND PATCH WALL OPENING TO MATCH EXISTING CONSTRUCTION.

PART SECOND FLOOR PLAN PROJECT 1&3 SEAL & SIGNATURE DATE: PROJECT No: 9200 DRAWING BY: BGA

DWG No:

H2-106

CHK BY: BGA

Revision Schedule

Description

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Rye City School District

School

Fielding

International

SED Submission

SED Submission Addendum#1

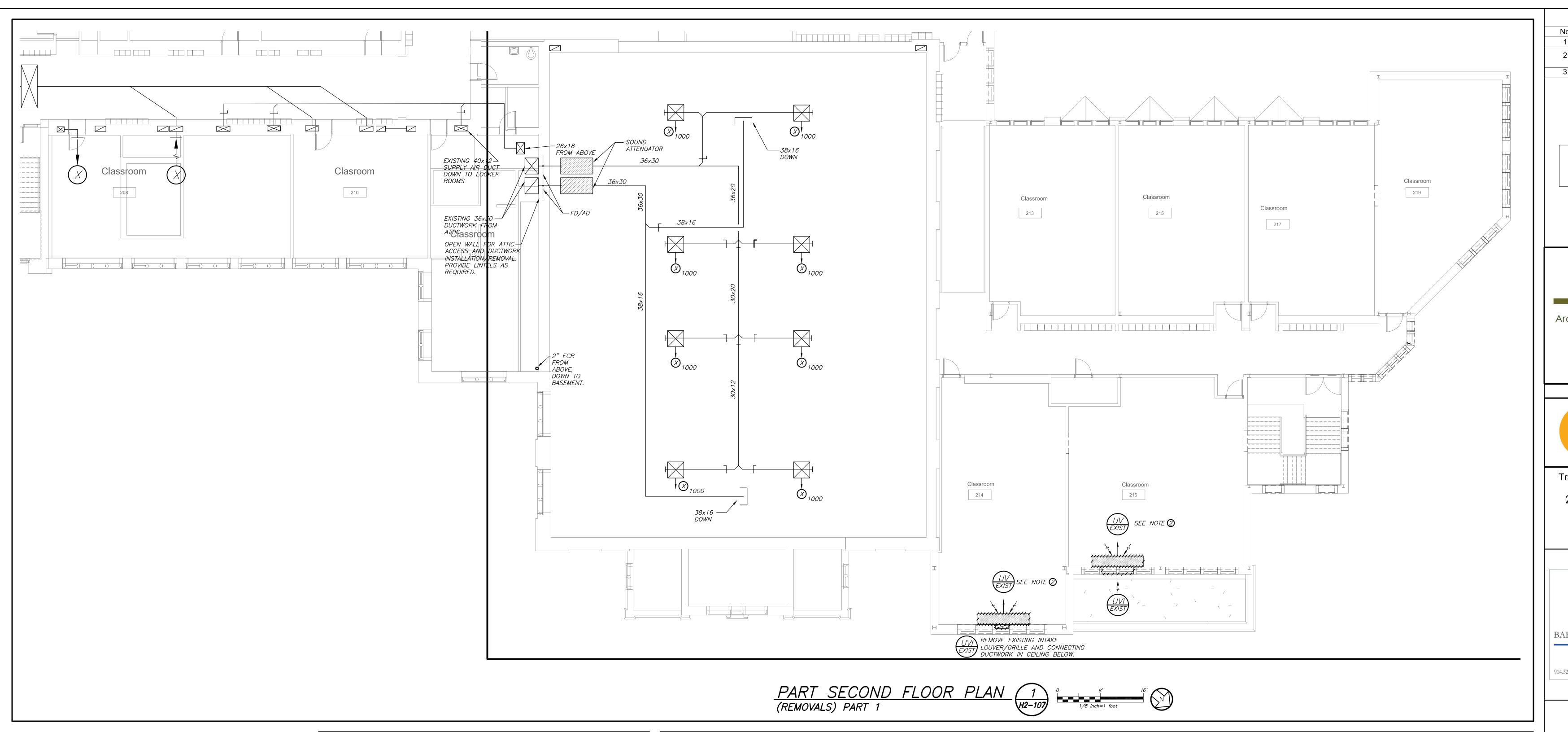
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TO FACILITATE INSTALLATION OF NEW UNIT VENTILATOR.

CUT BACK AND CAP EXISTING STEAM AND CONDENSATE PIPING AWAY FROM DUCT MOUNTED HEATING COIL. REMOVE ASSOCIATED DUCTWORK SECTIONS, EXISTING STEAM HEATING COIL, SUPPORTS, ETC. TO FACILITATE NEW HEATING COIL AND DX COIL INSTALLATION. REFURBISH AND BALANCE EXISTING ERU FANS SERVING THE GYM AND LOCKER ROOMS. THOROUGHLY CLEAN EXISTING UNIT CASING AND EXISTING COILS NOT BEING REPLACED. REPLACE ALL FILTERS. REMOVE AND REPLACE ANY DAMAGED SUPPLY AND RETURN DUCTWORK INSULATION.

2 REMOVE EXISTING UNIT VENTILATORS AND ASSOCIATED CONNECTING PIPING, DUCTWORK, LOUVERS, SUPPORTS AND WALL SLEEVES. CUT BACK AND CAP EXISTING HOT WATER PIPING

OUTSIDE AIR
INTAKE LOUVER,
23 SF @ 50%
FREE AREA

HC3-1
EXIST EXISTING EXHAUST ∠ ROOF (FLAT) — DISCHARGE LOUVER, 2½" HWS&R 23 SF @ 50% FREE AREA EXISTING 24x12 EXISTING 26X18 DN EXHAUST DUCT **EXHAUST** W/FSD/AD-DOWN ----PLENUM DUCT-DN W/FSD/AD \_\_EXIST 36X30 DN W/FSD/AD ------ <u>- | - - - - - - - - - - - - - -</u> -----<del>|-----</del> -----24x12 —EXISTING DUCT FROM BELOW -|--|----|| H----------------. \_ \_, \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ RELIEF AIR HOOD -2" CR DOWN TO BASEMENT. CONNECT TO EXISTING IN TUNNEL PART THIRD FLOOR ATTIC PLAN
(REMOVALS) PART 1

PART THIRD FLOOR ATTIC PLAN

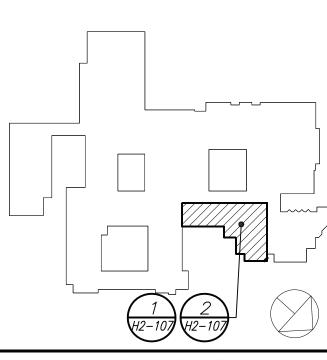
1

1/8 inch=1 foot

Revision Schedule

No. Description

No.DescriptionDate1SED Submission09/15/20202SED Submission<br/>Addendum#101/08/20213ISSUED FOR BID01/19/2021



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HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN

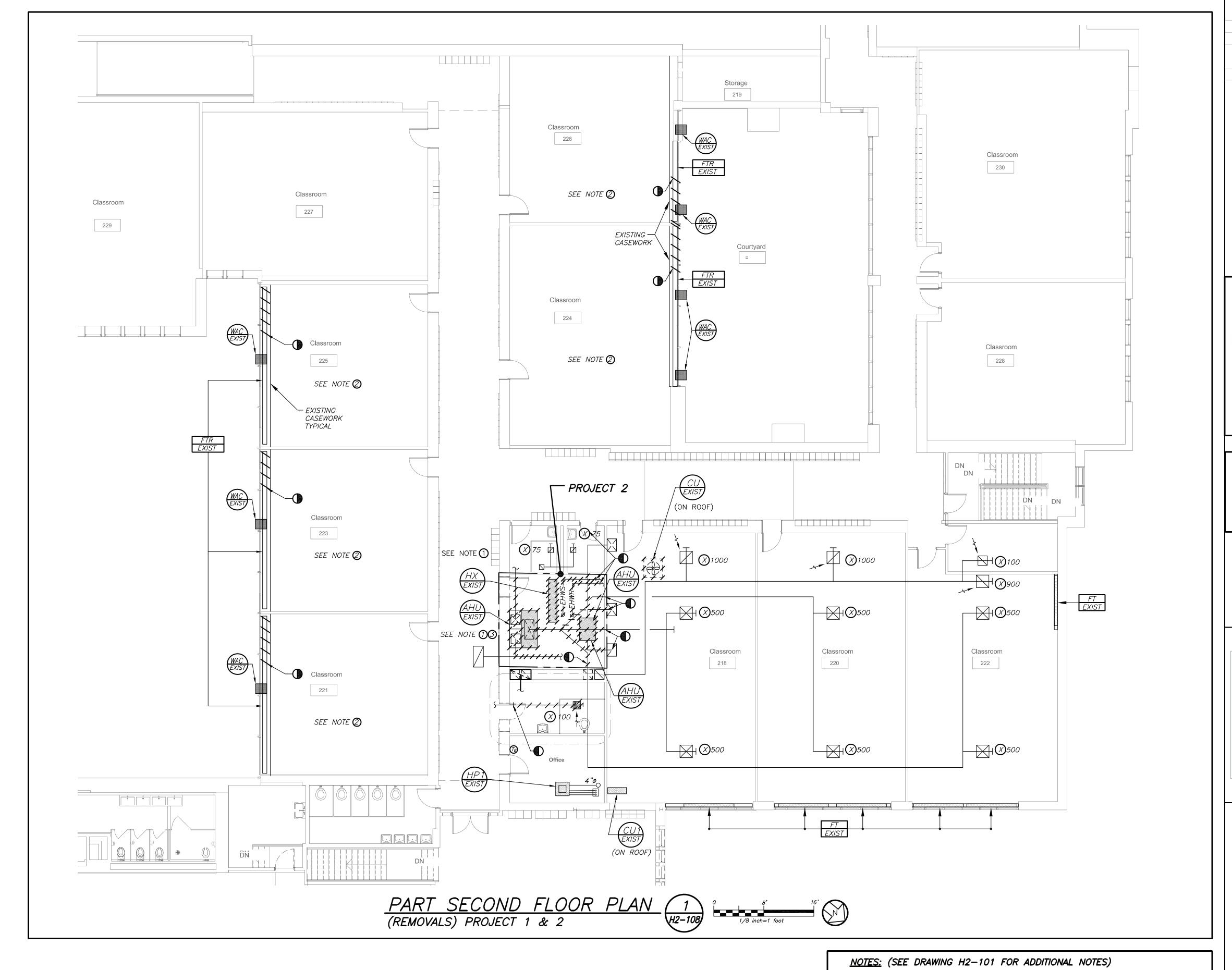
PROJECT 1

SEAL & SIGNATURE DATE: 11/07/19
PROJECT No: 9200
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CHK BY: BGA
DWG No:

H2-107

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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1 EXISTING (STEAM TO HOT WATER) HEAT EXCHANGER, CONDENSATE RETURN PUMPS, EXPANSION TANK, AIR SEPARATOR, ASSOCIATED HOT WATER CIRCULATION PUMPS, PIPING, STARTER/DISCONNECT SWITCH, CONTROLS AND ALL ASSOCIATED APPURTENANCES SHALL BE REMOVED IN THEIR ENTIRETY. CUT BACK AND CAP ASSOCIATED STEAM AND CONDENSATE RETURN PIPING TO EXISTING MAINS BELOW FLOOR. CUT BACK AND CAP ASSOCIATED HOT WATER SUPPLY AND RETURN DISTRIBUTION PIPING WITHIN ROOM TO FACILITATE RECONNECTION TO NEW HOT WATER DISTRIBUTION PIPING SYSTEM.

Q CUT AND MODIFY EXISTING WOOD CASEWORK SECTIONS TO FACILITATE NEW VERTICAL UNIT VENTILATOR INSTALLATION. CASEWORK SHALL BE FLUSH WITH SIDE IF UNIT VENTILATOR. CUT BACK AND MODIFY EXISTING TWO TIER FIN TUBE RADIATION AND REROUTE EXISTING HOT WATER DISTRIBUTION PIPING BELOW FLOOR OR ABOVE CEILINGS ACCORDINGLY TO TIE INTO EXISTING MAINS. PATCH AND SEAL ANY SLAB OR WALL OPENINGS TO MATCH EXISTING CONSTRUCTION. RELOCATE EXISTING WINDOW AC UNITS WHERE IN CONFLICT WITH NEW UNIT VENTILATOR INSTALLATION.

EXISTING TWO AIR HANDLERS, RETURN/EXHAUST FANS, ASSOCIATED PIPING, ROOF MOUNTED FOUR TON CONDENSING UNIT, STARTER/DISCONNECTS, CONTROLS AND APPURTENANCES SHALL BE REMOVED IN THEIR ENTIRETY. CUT BACK AND CAP ASSOCIATED DUCTWORK AND PIPING TO EXISTING MAINS TO FACILITATE RECONNECTION TO EXISTING DISTRIBUTION DUCTWORK AND NEW HOT WATER DISTRIBUTION PIPING SYSTEM. PATCH AND SEAL ASSOCIATED ROOF OPENINGS WATER TIGHT AND ALL MER WALL OPENINGS TO MATCH EXISTING CONSTRUCTION. EXISTING DUCTLESS SPLIT SYSTEM CEILING/WALL UNITS AND ROOF MOUNTED CONDENSING UNITS SERVING FIRST AND SECOND FLOORS SHALL REMAIN.

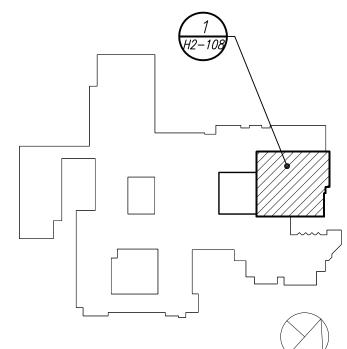
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HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN

PROJECT 1&2

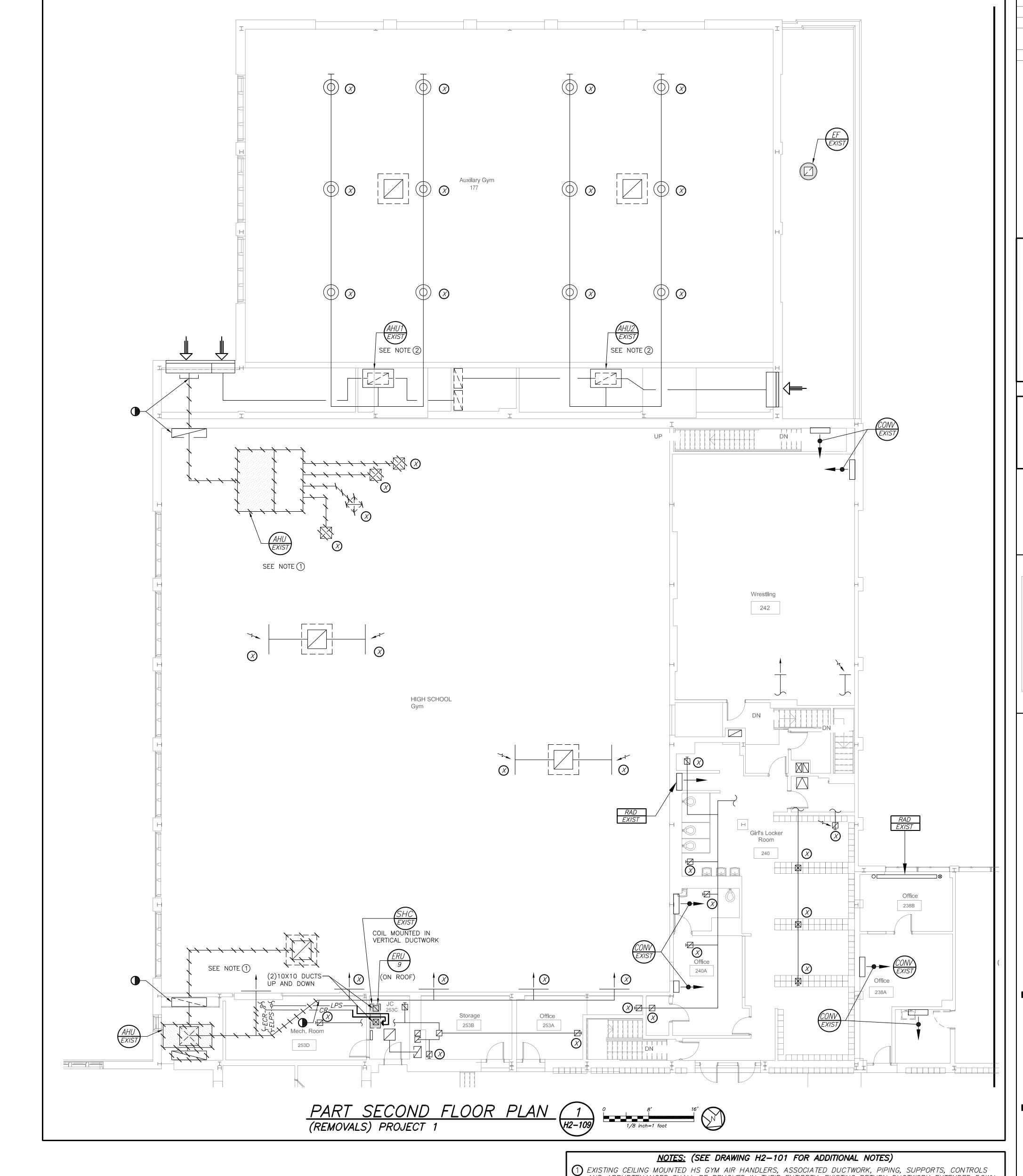
SEAL & SIGNATURE DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No:

H2-108

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
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OF ALL OTHER CONTRACTORS

OF ALL OTHER CONTRACTORS

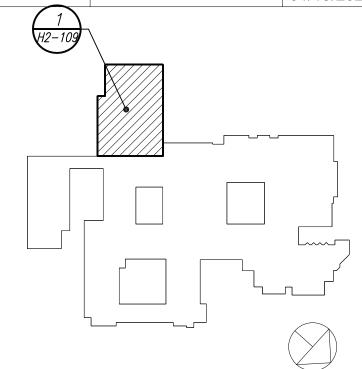
DBE: TAB: Layout1 - Y:\RYE CITY SD\Rye CSD - 2019 Bond - Phase 2 (1937.00)\Drawings\HVAC\a193700H-108-MHS.dwg - DATE: Jan 15, 2021 - 4:02pm



- AND APPURTENANCES SHALL BE REMOVED IN THEIR ENTIRETY. EXISTING RETURN DUCTWORK EXTENDED DOWN TO FLOOR LEVEL SHALL REMAIN. RETURN DUCTWORK SHALL BE THOROUGHLY CLEANED OF ANY DIRT AND DEBRIS. CUT BACK AND CAP ASSOCIATED STEAM AND CONDENSATE PIPING BACK TO MAINS TO FACILITATE NEW ERU AND DISTRIBUTION DUCTWORK INSTALLATIONS. CONTRACTOR RESPONSIBLE TO PROTECT GYTM FLOORING DURING DEMOLITION AND NEW CONSTRUCTION. FLOOR SHALL BE PROTECTED WITH POLY/CONSTRUCTION PAPER TOPPED BY TWO ALTERNATING LAYERS \( \frac{5}{8} \)" PLYWOOD.
- TWO EXISTING AUXILIARY GYM AIR HANDLING UNITS SHALL BE REFURBISHED INCLUDING REPLACING BELTS, FILTERS, PNEUMATIC CONTROLLED DEVISES WITH NEW DDC DEVICES, ETC.. UNIT CASING, COILS AND SUPPLY/RETURN DUCTWORK SHALL BE THOROUGHLY STEAMED CLEANED OF ALL DIRT AND DEBRIS.

Revision Schedule Description

Date SED Submission 09/15/2020 01/08/2021 SED Submission Addendum#1 ISSUED FOR BID 01/19/2021



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

#### 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 & MIDDLE SCHOOL PART SECOND FLOOR PLAN

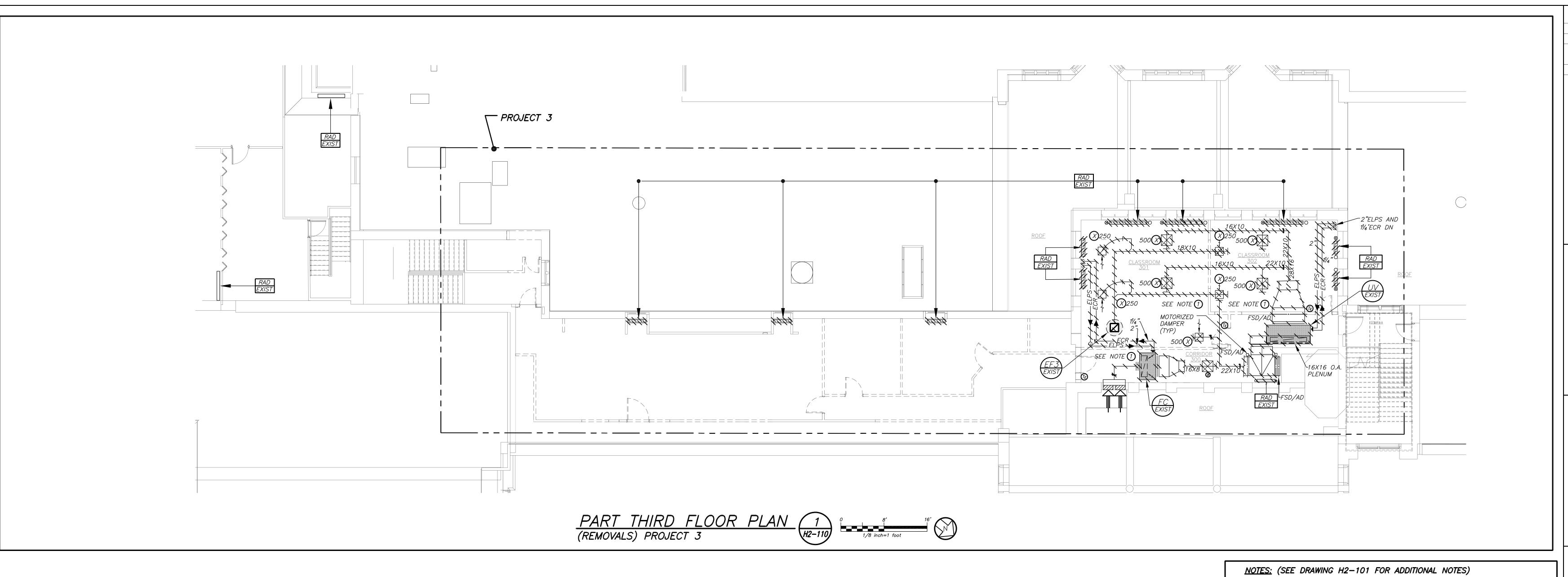
### PROJECT 1

SEAL & SIGNATURE DATE: PROJECT No: 9200 DRAWING BY: BGA CHK BY: BGA DWG No:

H2-109

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-109-MHS.dwg - DATE: Jan 15, 2021 - 4:02pm



EXISTING HORIZONTAL UNIT VENTILATORS, ASSOCIATED DUCTWORK, PIPING, SUPPORTS, CONTROLS AND APPURTENANCES SHALL BE REMOVED IN THEIR ENTIRETY. CUT BACK AND CAP ASSOCIATED STEAM AND CONDENSATE PIPING BACK TO MAINS TO FACILITATE NEW ERU AND PERIMETER RADIATION INSTALLATIONS.

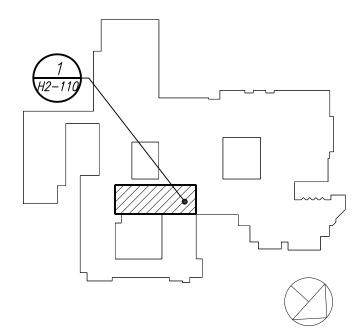
Revision Schedule

Description
SED Submission
SED Submission
Addendum#1

Addendum#1

ISSUED FOR BID 01/19

09/15/2020



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518-463-4400

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12 Cold Spring Street
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401-861-3218

#### 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 & MIDDLE SCHOOL PART THIRD FLOOR PLAN

PROJECT 3

SEAL & SIGNATURE DATE:

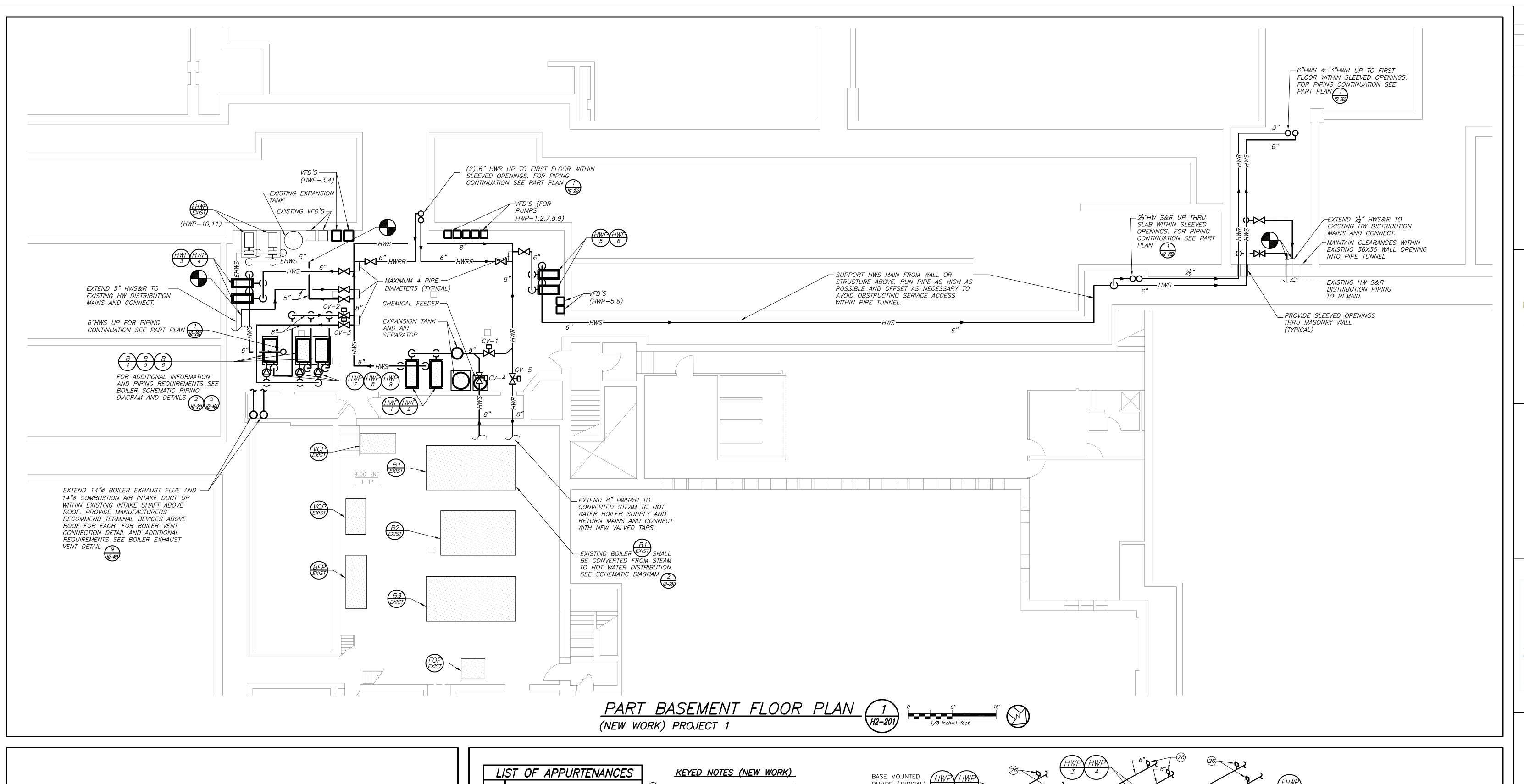
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No:

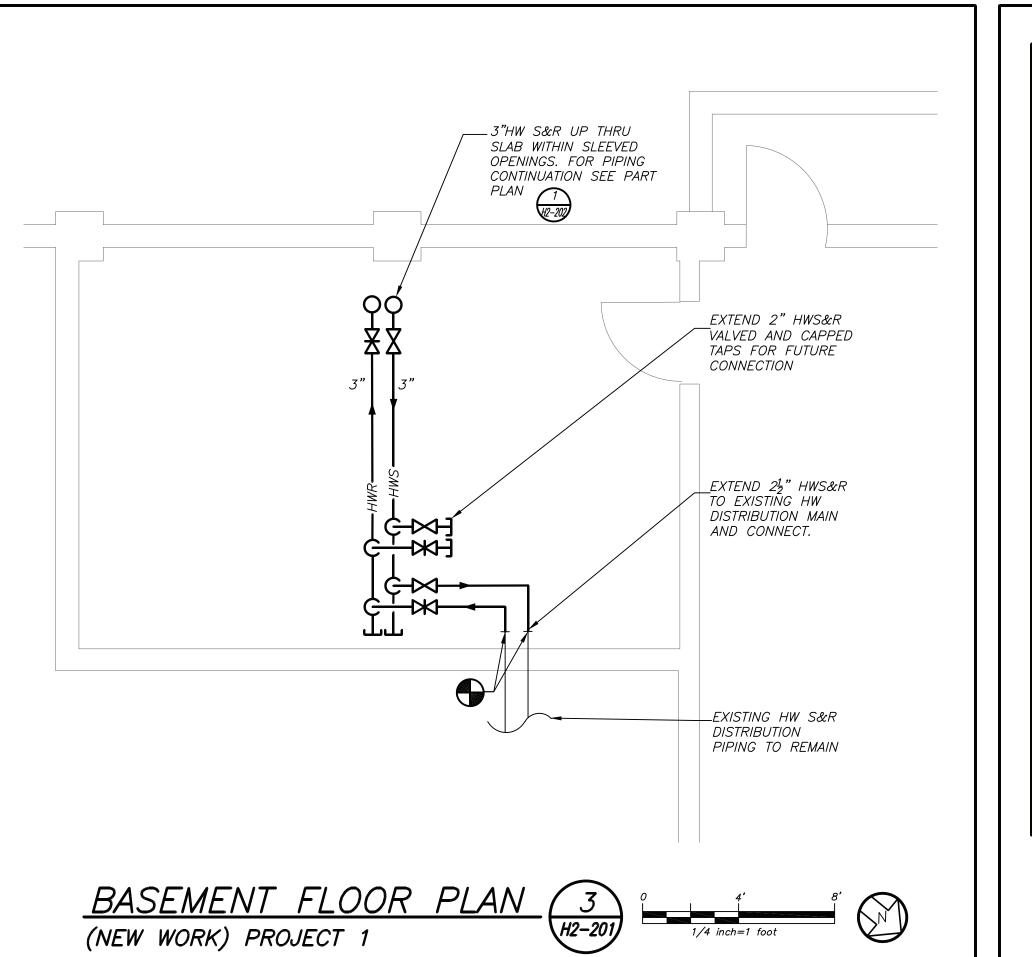
H2-110

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

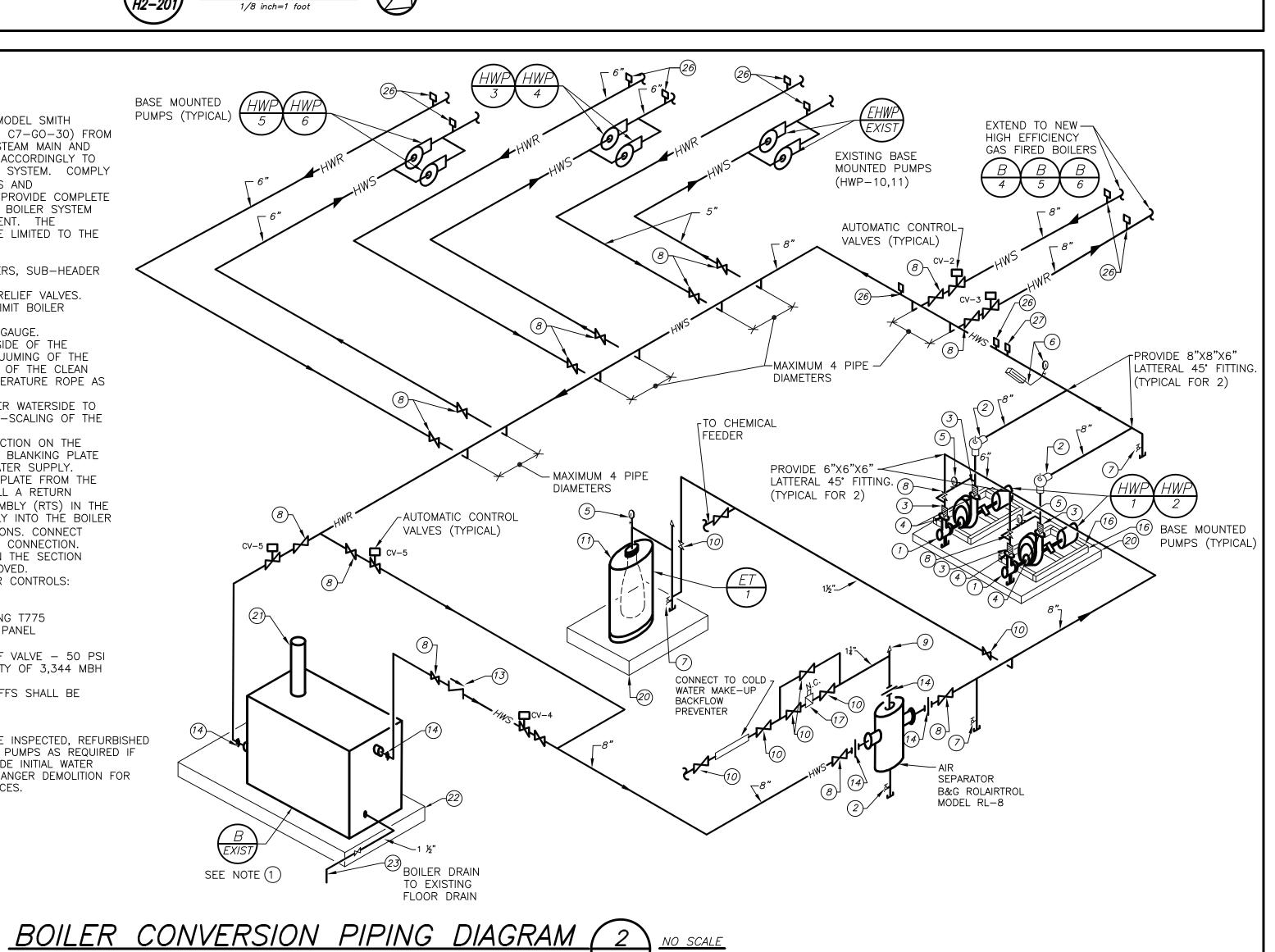
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			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1
LIS	ST OF APPURTENANCES	<u>KEYED NOTES (NEW WORK)</u>	BASE MOUNTED HWP HWP	<i>&gt;</i>
ARK	DESCRIPTION	1) CONVERT EXISTING STEAM BOILER B-1 (MODEL SMITH	PUMPS (TYPICAL) 5 1 6	/
1) 9	SUCTION DIFFUSER	6500-S-21 WITH POWER FLAME BURNER C7-G0-30) FROM STEAM OPERATION TO HOT WATER. CAP STEAM MAIN AND	HWR DO HIWR	γ,
2) 7	TRIPLE DUTY VALVE (SOFT SEAT)	ASSOCIATED CONDENSATE RETURN LINES ACCORDINGLY TO ISOLATE CONVERTED BOILER FROM STEAM SYSTEM. COMPLY	HWS	L
3) F	FLEXIBLE CONNECTION	WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR BOILER CONVERSION. PROVIDE COMPLETE	T 6" HWS	
4) (	CONCENTRIC REDUCER	START UP AND TEST OF THE CONVERTED BOILER SYSTEM	5"	
5)	PRESSURE GUAGE(W/SHUT-OFF COCK)	USING FACTORY AUTHORIZED SERVICE AGENT. THE CONVERSION SHALL INCLUDE BUT NOT BE LIMITED TO THE		
	PRESSURE GUAGE (WITH SHUT-OFF COCK) & THERMOMETER	FOLLOWING:		Γ,
$\overline{}$	DRAIN VALVE WITH HOSE END CONNECTION	a. REMOVAL OF THE BOILER STEAM RISERS, SUB—HEADER AND EQUALIZER PIPING.		ン
	GATE VALVE (WITH CHAIN OPERATOR FOR UNREACHABLE LOCATIONS)	b. REMOVAL OF THE STEAM PRESSURE RELIEF VALVES.		\
	AUTOMATIC AIR VENT	<ul> <li>c. REMOVAL OF THE OPERATING, HIGH LIMIT BOILER PRESSURE CONTROLS.</li> </ul>	8 HWS	
10) 1	BALL VALVE	<ul> <li>d. REMOVAL OF THE BOILER PRESSURE GAUGE.</li> <li>e. A COMPLETE CLEANING OF THE FIRESIDE OF THE</li> </ul>		1
11)	PRESSURIZED EXPANSION TANK	BOILER TO INCLUDE BRUSH AND VACUUMING OF THE		-M/
12) /	NOT USED	HEAT EXCHANGER AND RE—ASSEMBLY OF THE CLEAN OUT PASSAGES WITH NEW HIGH TEMPERATURE ROPE AS		DI
13) (	CHECK VALVE	NEEDED. f. A COMPLETE CLEANING OF THE BOILER WATERSIDE TO	8	
14)	UNION CONNECTION	INCLUDE WASHING, FLUSHING AND DE-SCALING OF THE HX IF NECESSARY.	LTO CHEMICA	L
15)	BOILER PRESS./TEMP. RELIEF VALVE	g. USING THE EXISTING FLANGED CONNECTION ON THE	FEEDER	
	GROUT PUMP BASE INTO PAD	BOILER FRONT SECTION, REMOVE THE BLANKING PLATE AND INSTALL NEW PIPING TO HOT WATER SUPPLY.		PR
	BRONZE BODY MAKE—UP WATER PRESSURE REGULATOR W/ BUILT IN CHECK VALVE	h. REMOVE THE FLANGE AND BLANKING PLATE FROM THE REAR SECTION. FURNISH AND INSTALL A RETURN	DIAMETERS	LA <sup>-</sup> (T)
18)	NOT USED	TEMPERATURE STABILIZER TUBE ASSEMBLY (RTS) IN THE REAR SECTION, SLIDING THE ASSEMBLY INTO THE BOILER	(8) AUTOMATIC CONTROL (5)	( ' '
19)	NOT USED	PER THE MANUFACTURER'S INSTRUCTIONS. CONNECT	VALVES (TYPICAL)	\
20) /	NEW 4" THICK CONCRETE HOUSEKEEPING PAD	NEW RETURN PIPING TO THIS FLANGE CONNECTION.  i. FURNISH AND INSTALL PIPE PLUGS IN THE SECTION	CV-5 CV-5	
21) E	EXISTING FLUE OUTLET	TAPS WHERE THE RISERS WERE REMOVED.  j. FURNISH THE FOLLOWING NEW BOILER CONTROLS:	8) ET	
22) E	EXISTING 4" HOUSEKEEPING PAD	1. L4006A OPERATING CONTROLLER.		
23) E	BOILER DRAIN	<ul><li>2. L4006E HIGH LIMIT CONTROLLER.</li><li>3. TEMPERATURE SENSOR FOR EXISTING T775</li></ul>		
24) /	NOT USED	CONTROLLER LOCATED IN BURNER PANEL 4. PRESSURE / TEMPERATURE GAUGE		
25) E	BALANCE VALVE	5. WATTS TYPE 740 PRESSURE RELIEF VALVE - 50 PSI WITH A MINIMUM RELIEVING CAPACITY OF 3,344 MBH		
26) F	HEADER TEMPERATURE SENSOR	OR GREATER.	CONNECT TO COLD	7 ,
27) L	DIFFERENTIAL PRESSURE SENSOR (VFD)	k. THE TWO EXISTING LOW WATER CUT OFFS SHALL BE REPLACED.	WATER MAKE-UP / BACKFLOW PREVENTER	
28) /	NOT USED		14) PREVENTER PREVENTER	لم
		EXISTING PUMPS (EHWP-10,11) SHALL BE INSPECTED, REFURE TO EXISTING DESIGN CONDITIONS. REPAIR PUMPS AS REQUIRED FOUND NOT OPERATING PROPERLY. PROVIDE INITIAL WATER BALANCING REPORT PRIOR TO HEAT EXCHANGER DEMOLITION FOUND BASELINE OF EXISTING PUMP PERFORMANCES.	BISHED OF THE PROPERTY OF THE	10



01/08/2021 SED Submission Addendum#1 ISSUED FOR BID 01/19/2021 H2-201

Revision Schedule

Description

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Acoustic Consultant DP DESIGN 12 Cold Spring Street

Providence, RI 401-861-3218

#### 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 & MIDDLE SCHOOL PART BASEMENT PLANS AND **BOILER PIPING DIAGRAM** 

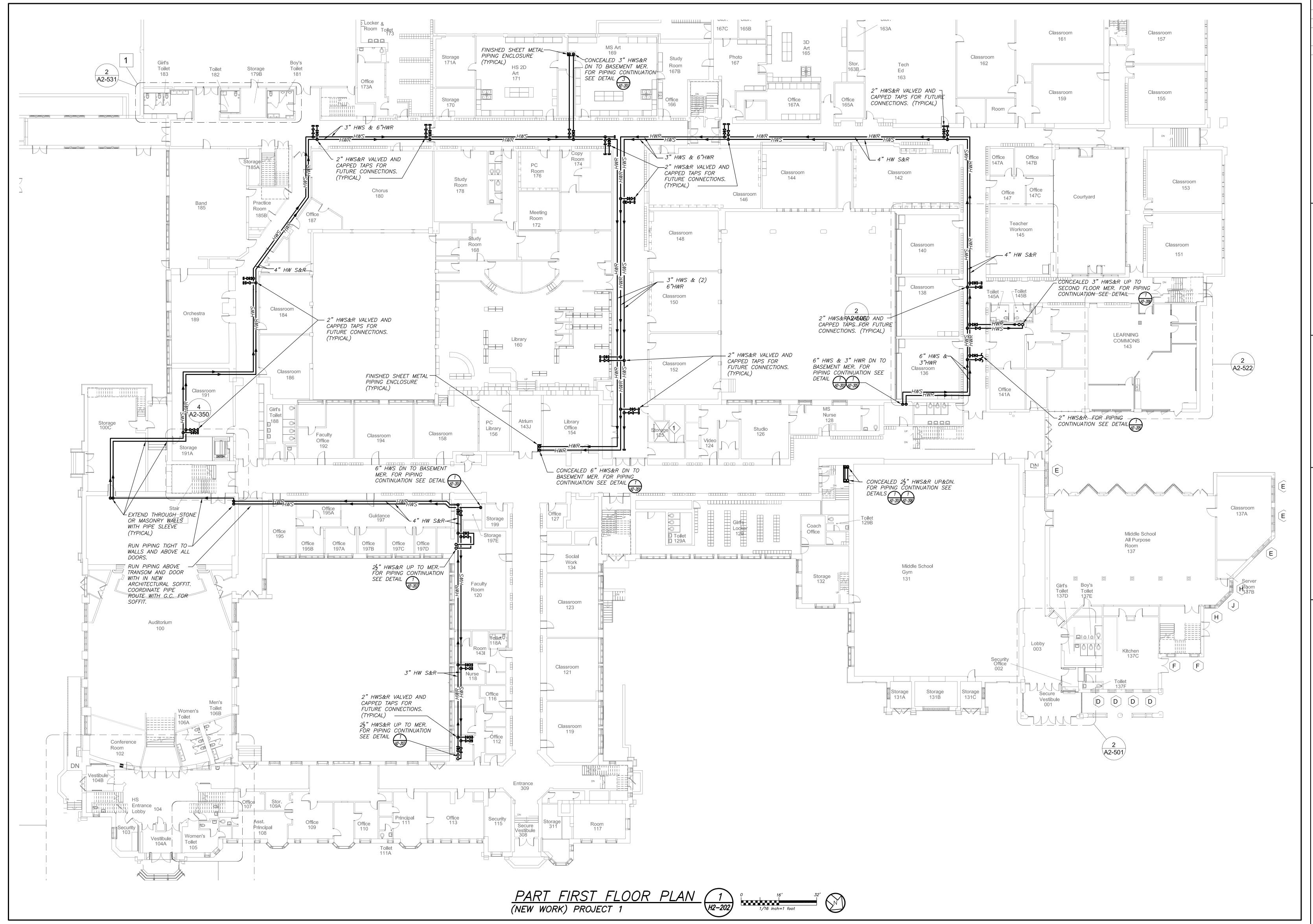
#### PROJECT 1

SEAL & SIGNATURE DATE: PROJECT No: 9200 DRAWING BY: BGA CHK BY:

BGA DWG No: H2-201

OF ALL OTHER CONTRACTORS DBE: TAB: Layout1 - Y:\RYE CITY SD\Rye CSD - 2019 Bond - Phase 2 (1937.00)\Drawings\HVAC\a193700H-201-MHS.dwg - DATE: Jan 15, 2021 - 3:12pm

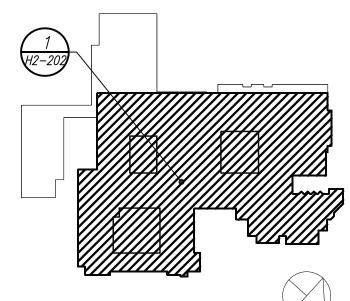
BEFORE FABRICATION THIS CONTRACTOR SHALL
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JOB AND COORDINATE HIS WORK WITH THE WORK



WHERE CEILINGS ARE NOT INDICATED TO BE REPLACED IN ARCHITECTURAL DRAWINGS, HVAC CONTRACTOR SHALL REMOVE AND REINSTALL CEILING TILES AND GRID AS NECESSARY TO FACILITATE HOT WATER PIPING INSTALLATION. CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILES TO MATCH EXISTING.

Revision Schedule Date Description 09/15/2020 **SED Submission** 

> 01/08/2021 **SED Submission** Addendum#1 ISSUED FOR BID 01/19/2021



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

401-724-1771

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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 & MIDDLE SCHOOL PART FIRST FLOOR PLAN

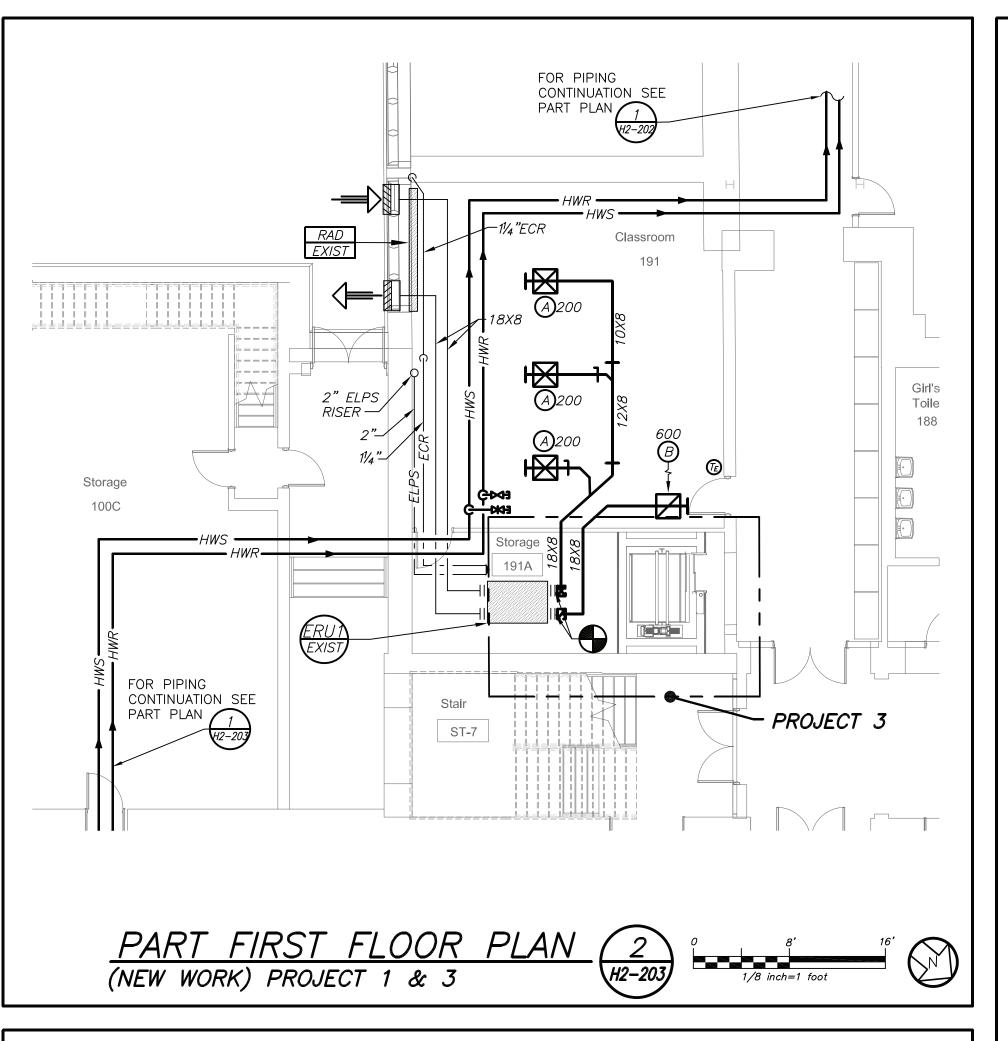
PROJECT 1

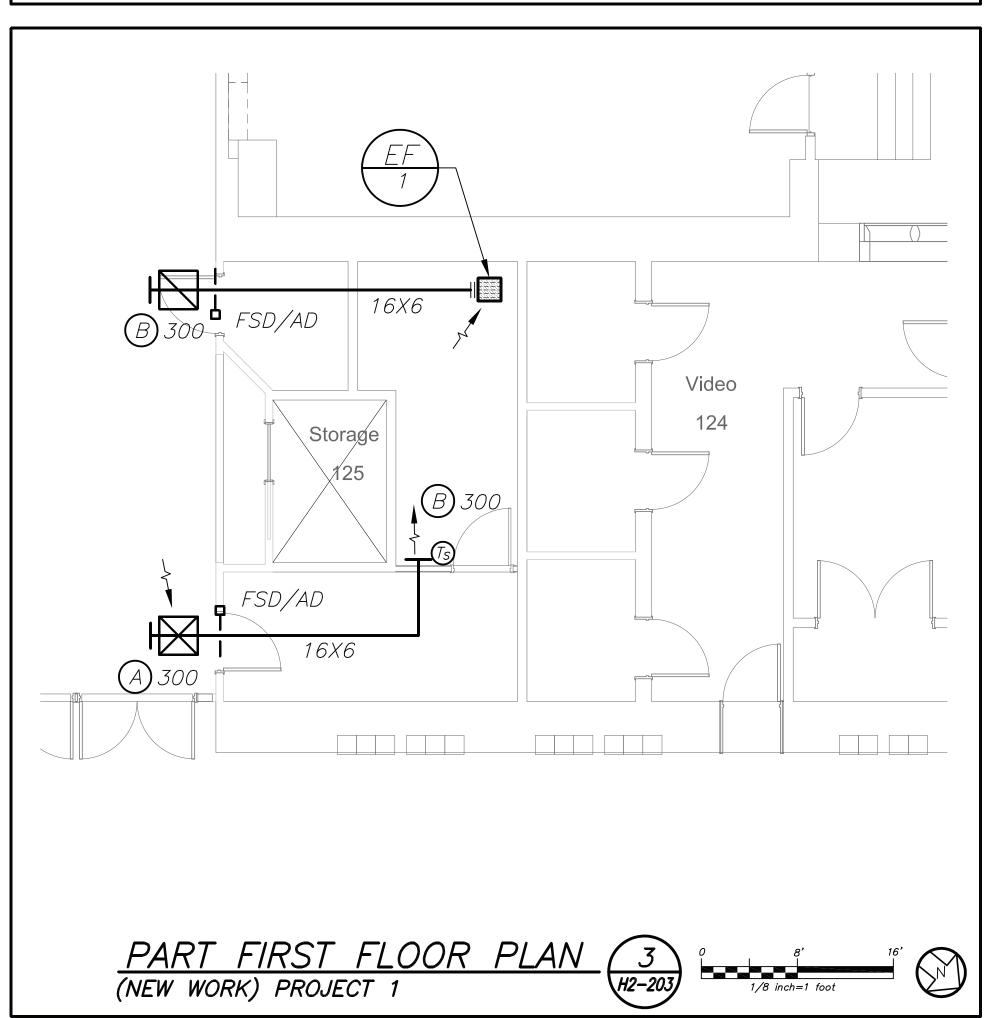
SEAL & SIGNATURE | DATE: PROJECT No: 9200 DRAWING BY: BGA CHK BY: BGA DWG No:

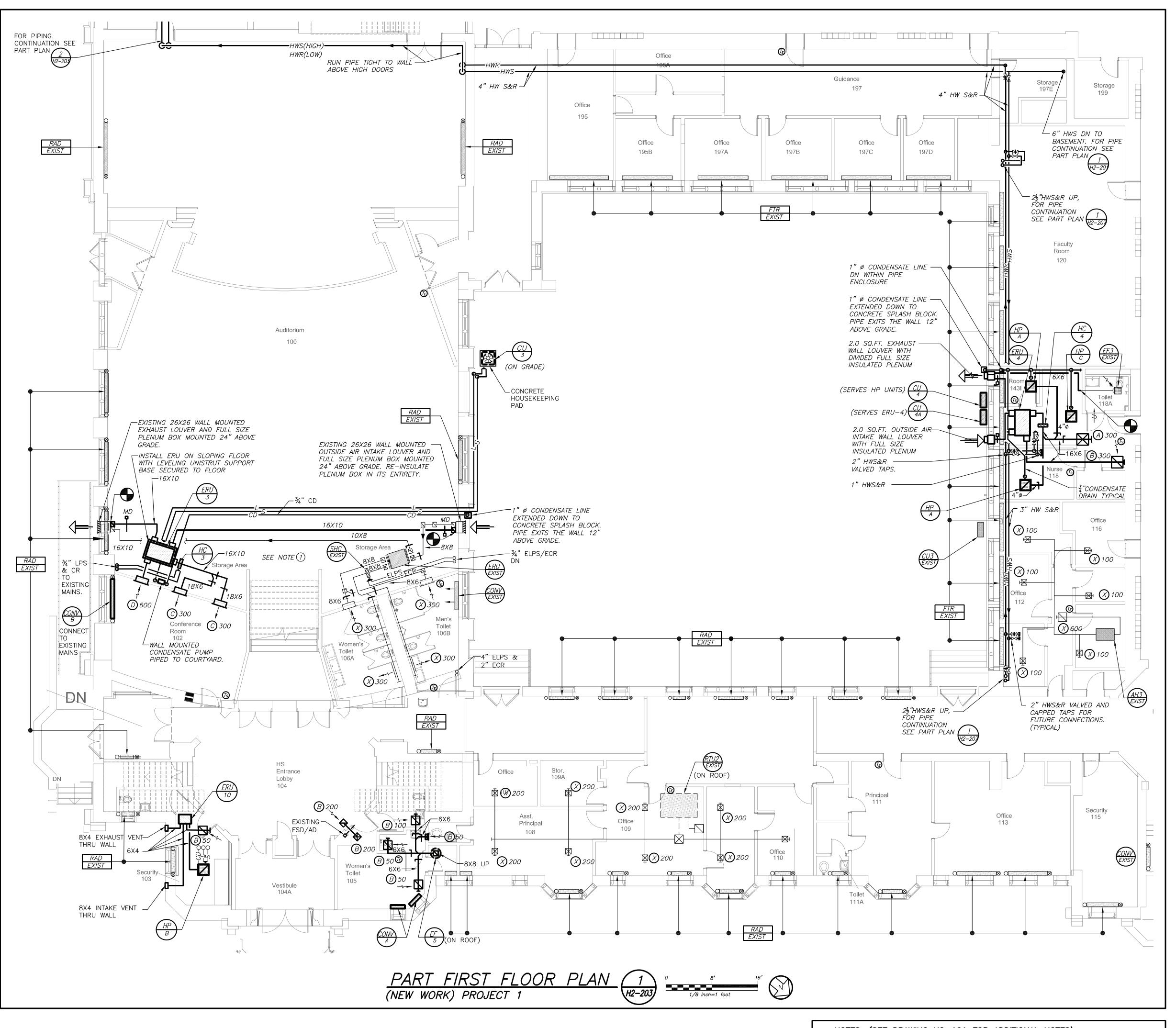
H2-202

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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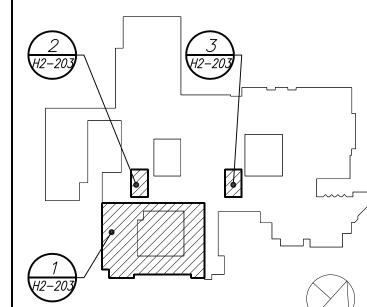




1 WORK IN THIS AREA IS BELOW AUDITORIUM SEATING WITHIN STORAGE AREA.

Revision Schedule Description

Date 09/15/2020 **SED Submission** 01/08/2021 **SED Submission** Addendum#1 ISSUED FOR BID 01/19/2021



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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 & MIDDLE SCHOOL PART FIRST FLOOR PLAN

PROJECT 1&3

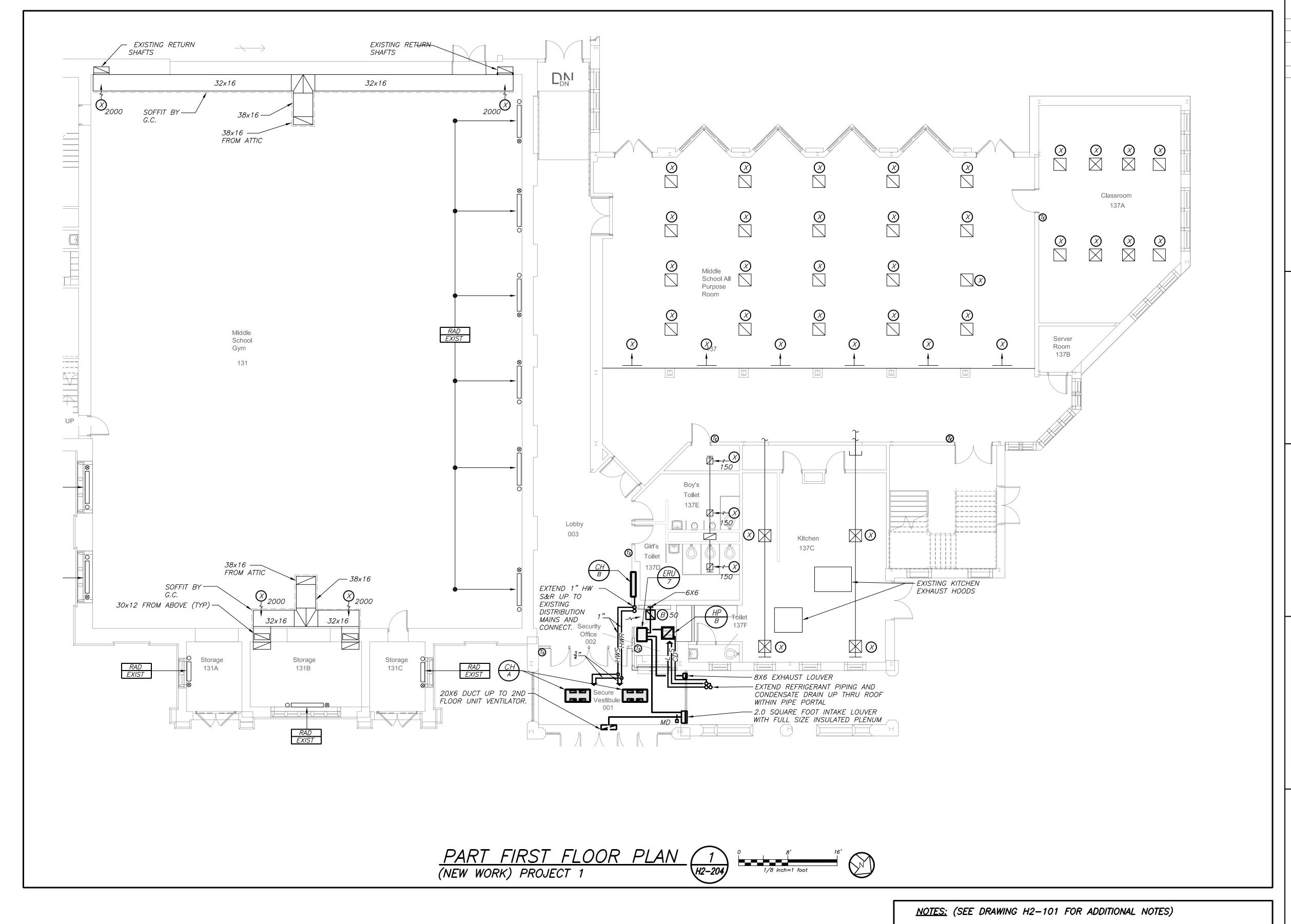
PROJECT No: 9200 DRAWING BY: BGA

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SEAL & SIGNATURE DATE:

CHK BY: BGA DWG No: H2-203



Revision Schedule

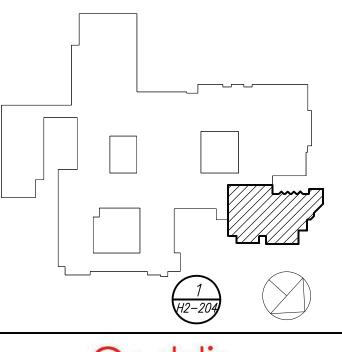
No. Description Date

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01/19/2021

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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

HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN

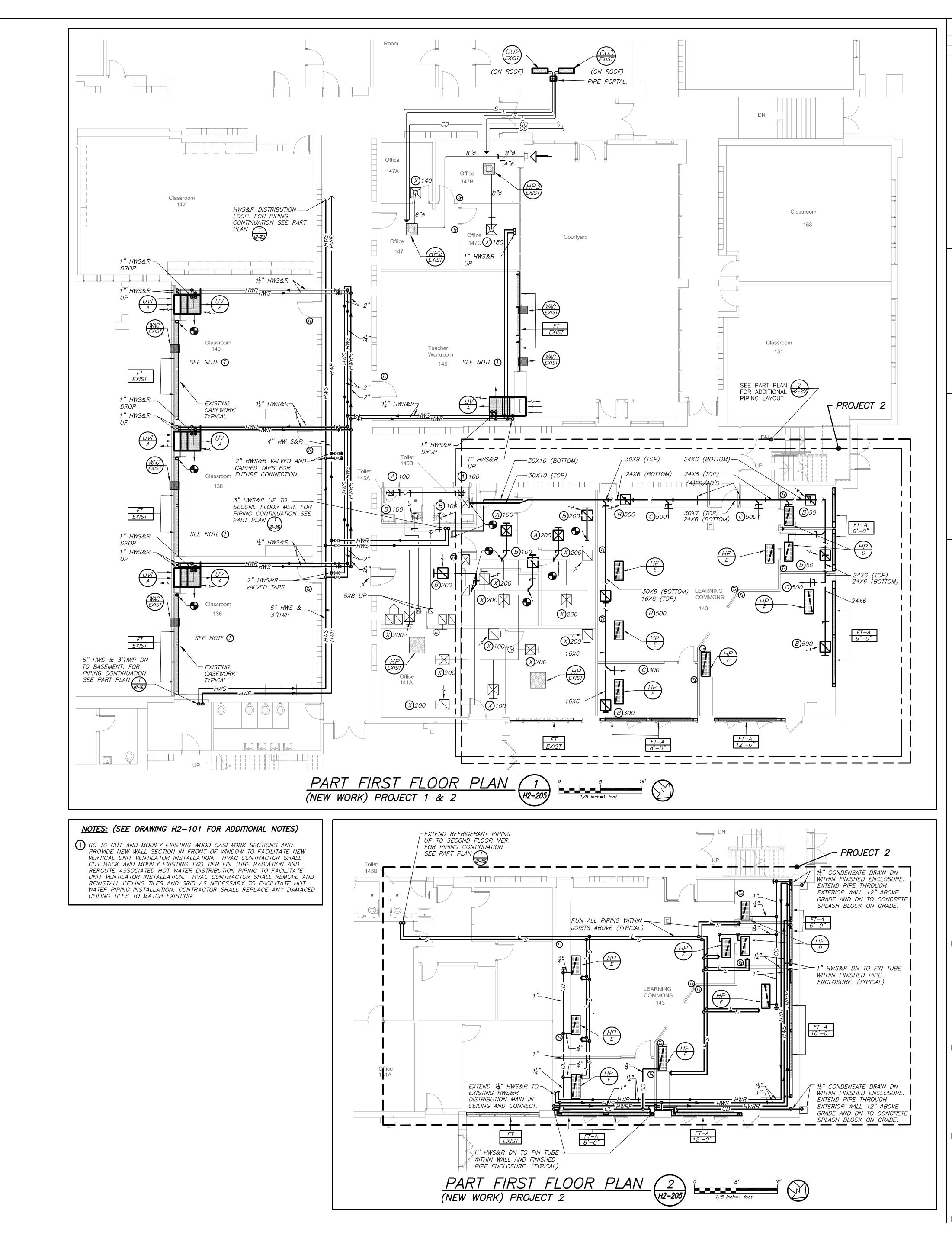
PROJECT 1

SEAL & SIGNATURE DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No:

H2-204

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Revision Schedule

Description
Date
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1 2 H2-205 H2-205

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<u>Civil Engineer</u>

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Albany, NY 12205 518-463-4400

### 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

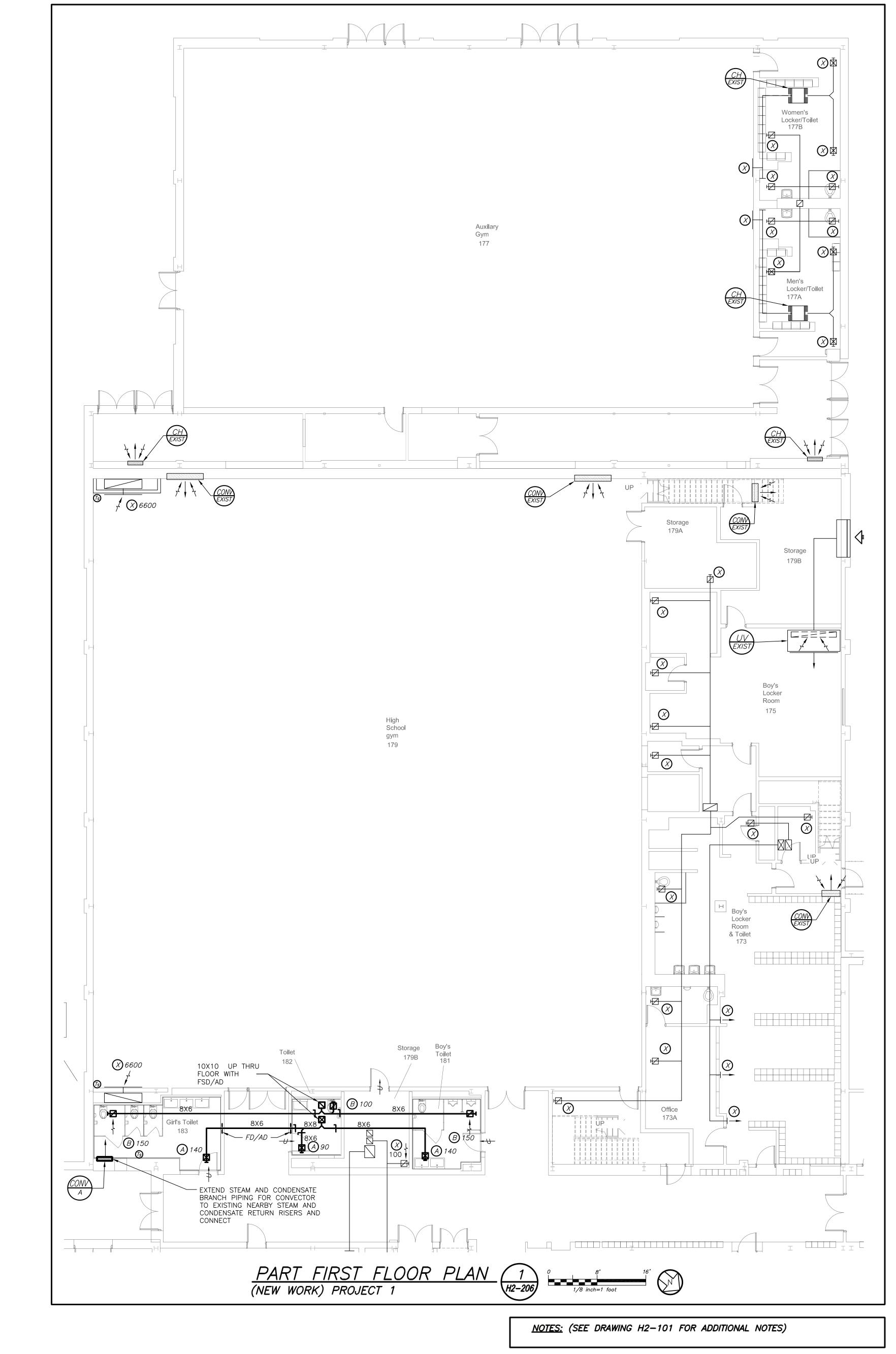
HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN

PROJECT 1 & 2

SEAL & SIGNATURE DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No:
H2-205

BEFORE FABRICATION THIS CONTRACTOR SHALL
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Revision Schedule

No. Description Date

1 SED Submission 09/15/2020
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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

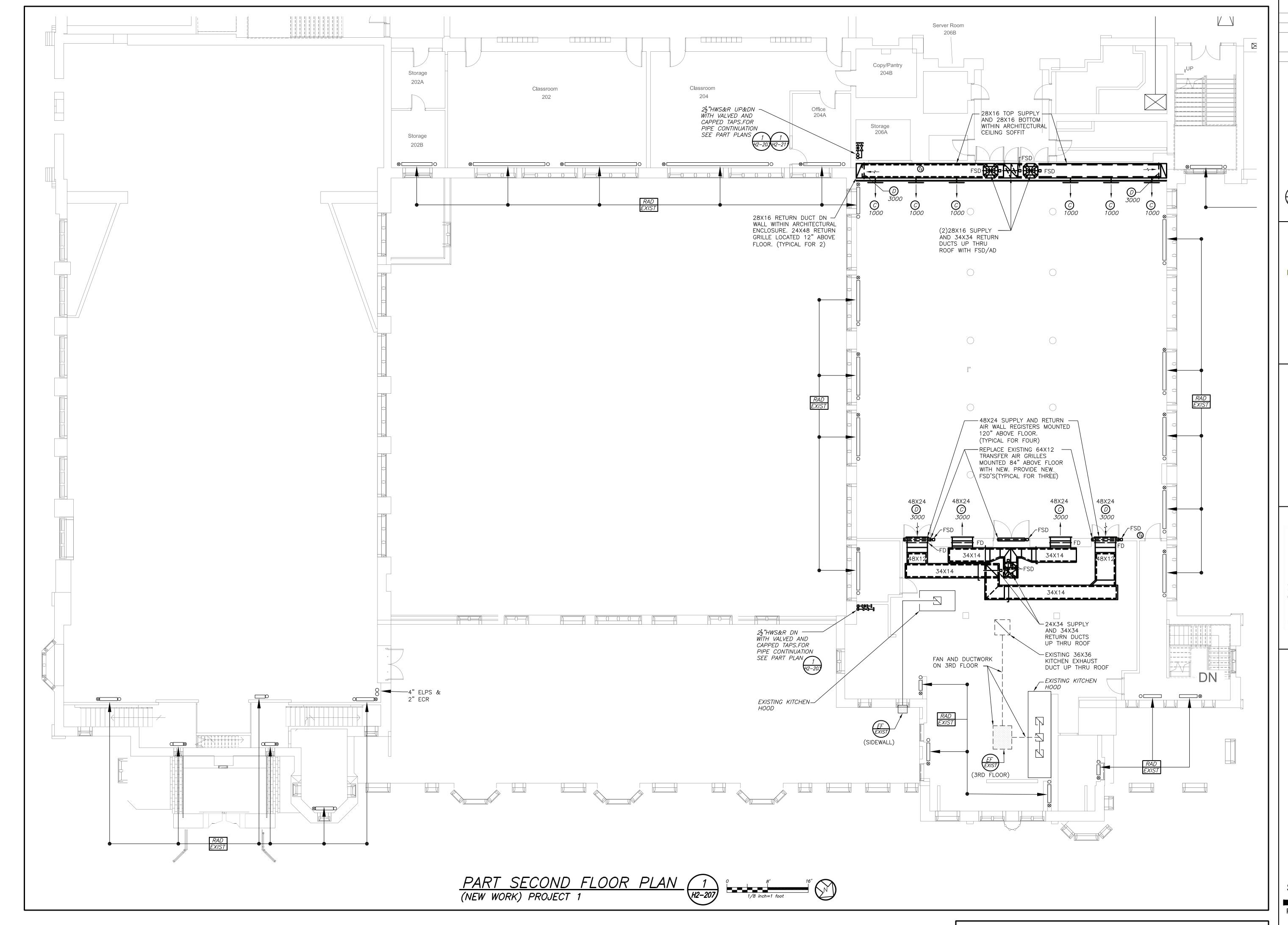
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN

PROJECT 1

SEAL & SIGNATURE DATE: 11/07/19
PROJECT No: 9200
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CHK BY: BGA
DWG No:
H2-206

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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 #: 6618-0001-0005-032

PROJECT

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

Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

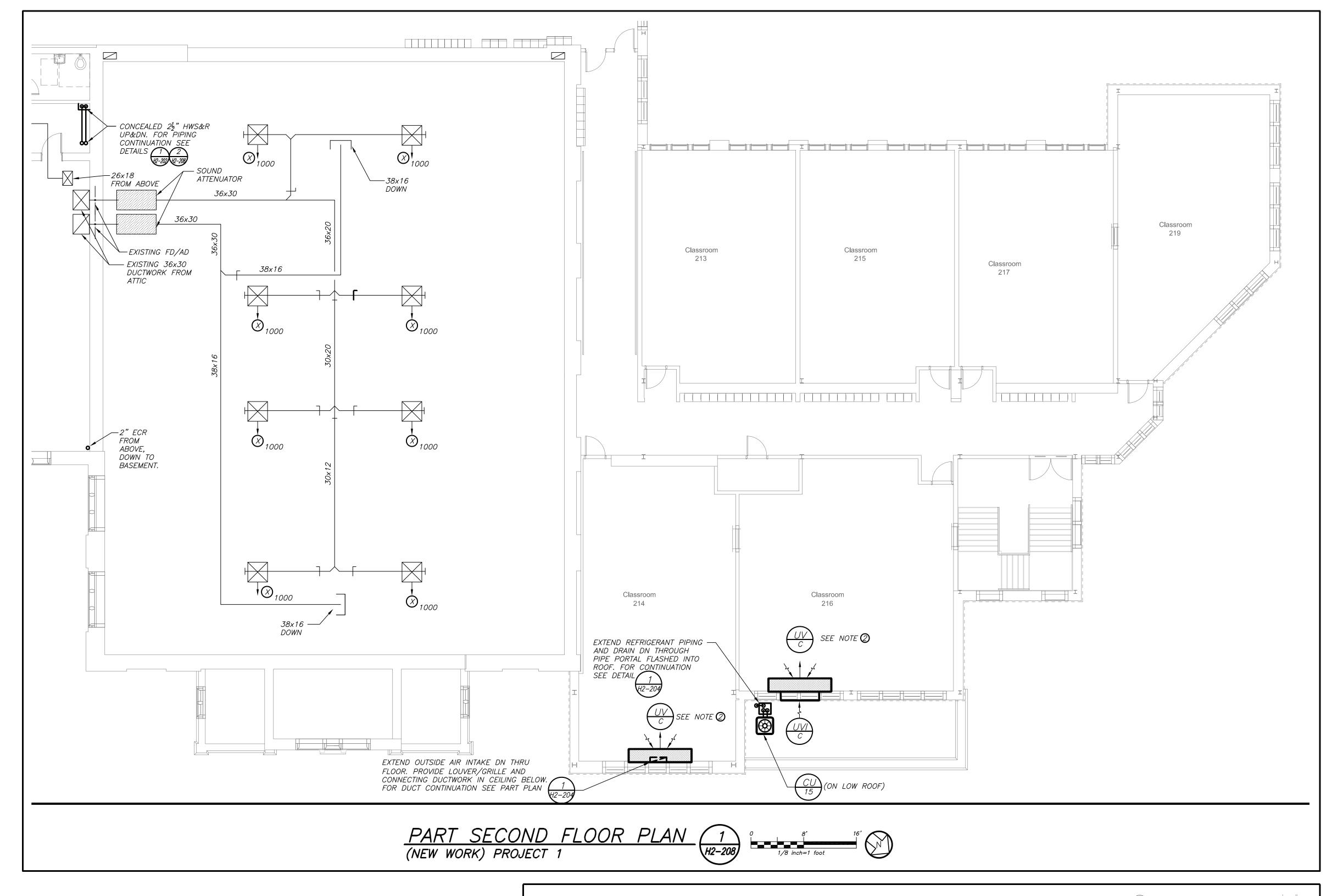
HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN

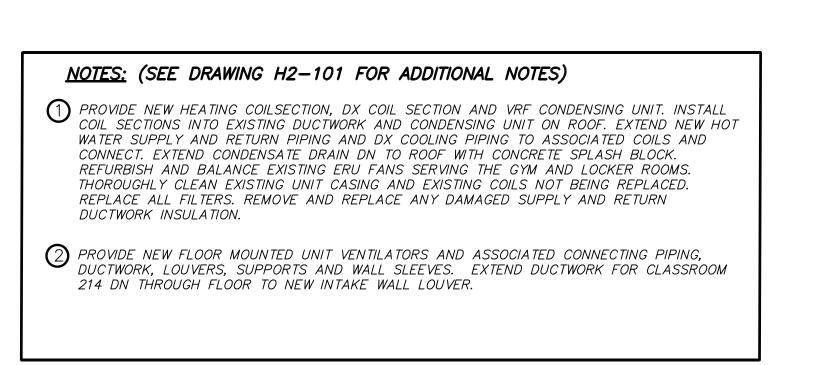
PROJECT 1

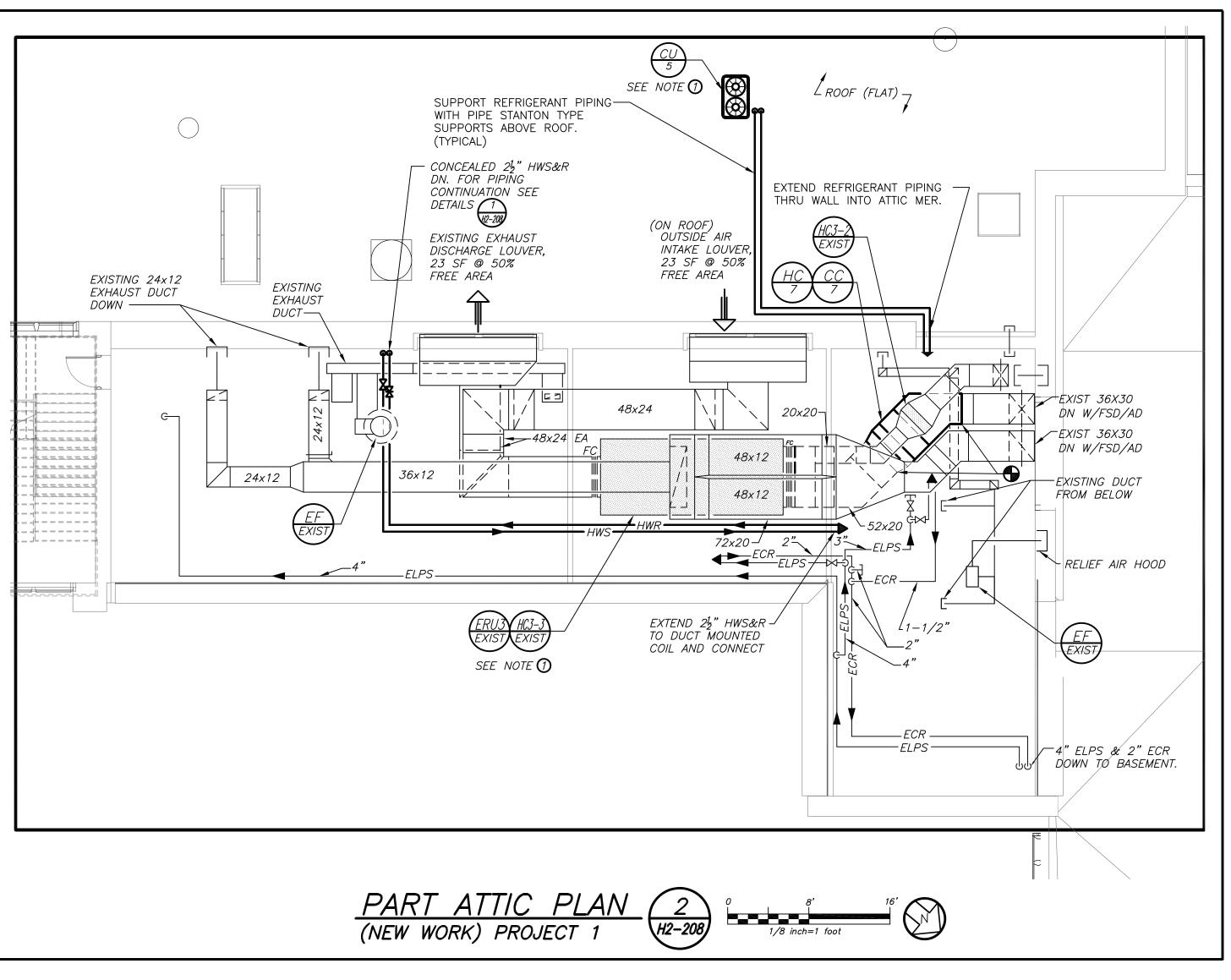
SEAL & SIGNATURE | DATE: 11/07/19 | PROJECT No: 9200 | DRAWING BY: BGA | CHK BY: BGA | DWG No: | H2-207

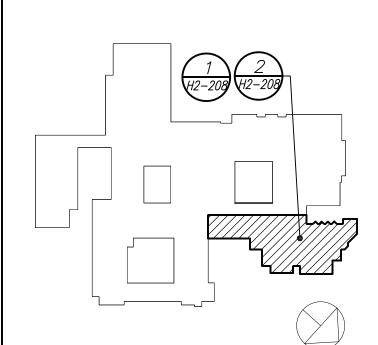
BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

DBE: TAB: Layout1 - Y:\RYE CITY SD\Rye CSD - 2019 Bond - Phase 2 (1937.00)\Drawings\HVAC\a193700H-207-MHS.dwg - DATE: Jan 15, 2021 - 3:18pm









Revision Schedule

Description

SED Submission

SED Submission Addendum#1

ISSUED FOR BID

Date

09/15/2020

01/19/2021

### Geddis Architects

Architecture. Planning. Interiors

71 Old Post Road P.O. Box 1020 Southport, CT 06890 (203) 256-8700



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12 Cold Spring Street
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401-861-3218

### 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 & MIDDLE SCHOOL PART SECOND FLOOR AND

PROJECT 1

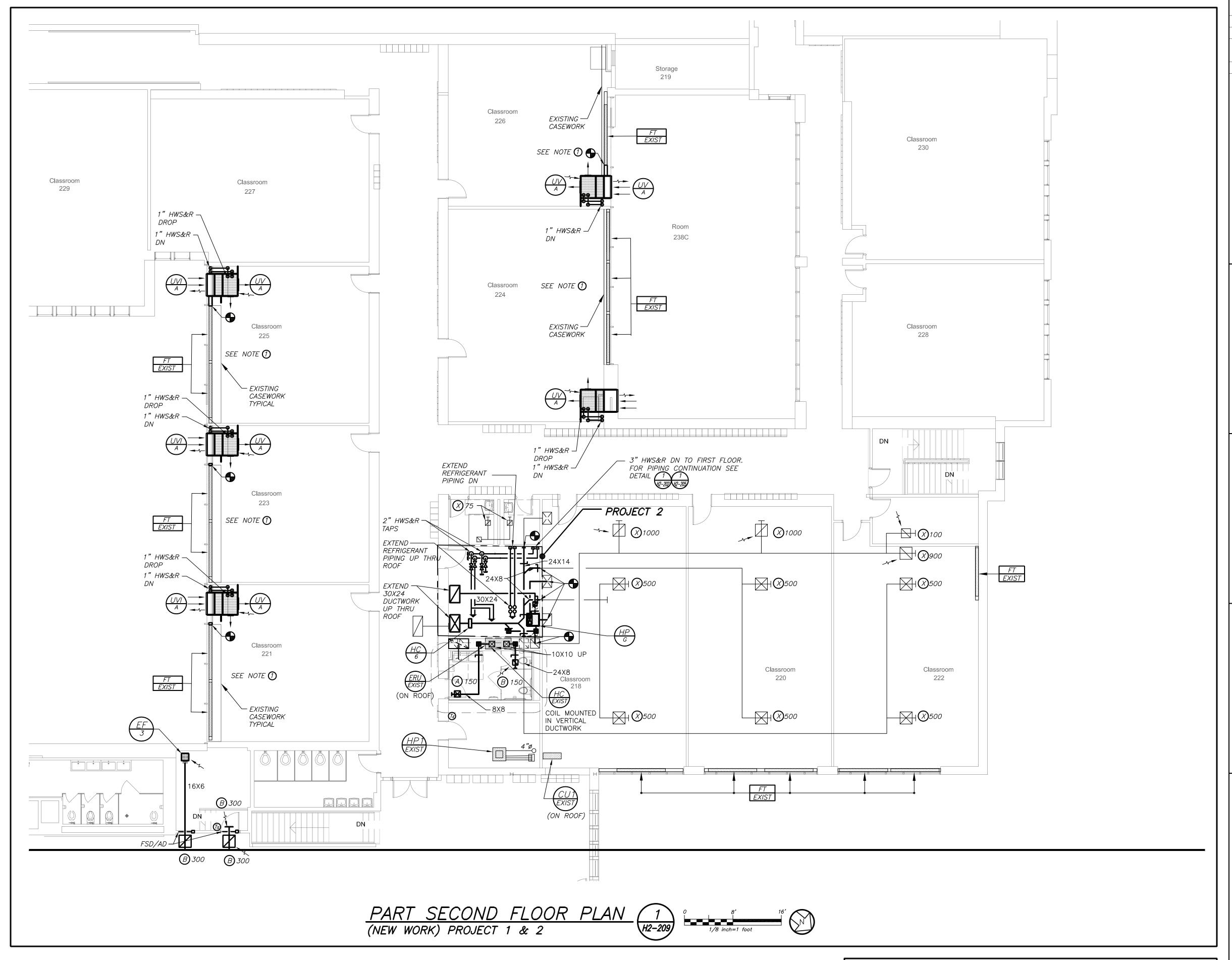
ATTIC PLAN

SEAL & SIGNATURE DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No:

H2-208

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
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DBE: TAB: Layout1 - Y:\RYE CITY SD\Rye CSD - 2019 Bond - Phase 2 (1937.00)\Drawings\HVAC\a193700H-208-MHS.dwg - DATE: Jan 15, 2021 - 3:19pm

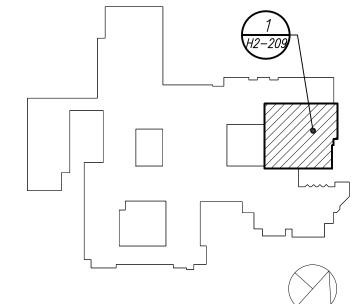


OUT AND MODIFY EXISTING WOOD CASEWORK SECTIONS TO FACILITATE NEW VERTICAL UNIT VENTILATOR INSTALLATION. CASEWORK SHALL BE FLUSH WITH SIDE OF UNIT VENTILATOR. CUT BACK AND MODIFY EXISTING TWO TIER FIN TUBE RADIATION AND REROUTE EXISTING HOT WATER DISTRIBUTION PIPING BELOW FLOOR ACCORDINGLY TO ADJACENT CLASSROOMS FIN TUBE PIPING. PATCH AND SEAL ANY SLAB OR WALL OPENINGS TO MATCH EXISTING CONSTRUCTION.

Revision Schedule Date Description SED Submission 09/15/2020 01/08/2021 SED Submission Addendum#1

01/19/2021

ISSUED FOR BID



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

### 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 & MIDDLE SCHOOL PART SECOND FLOOR PLAN

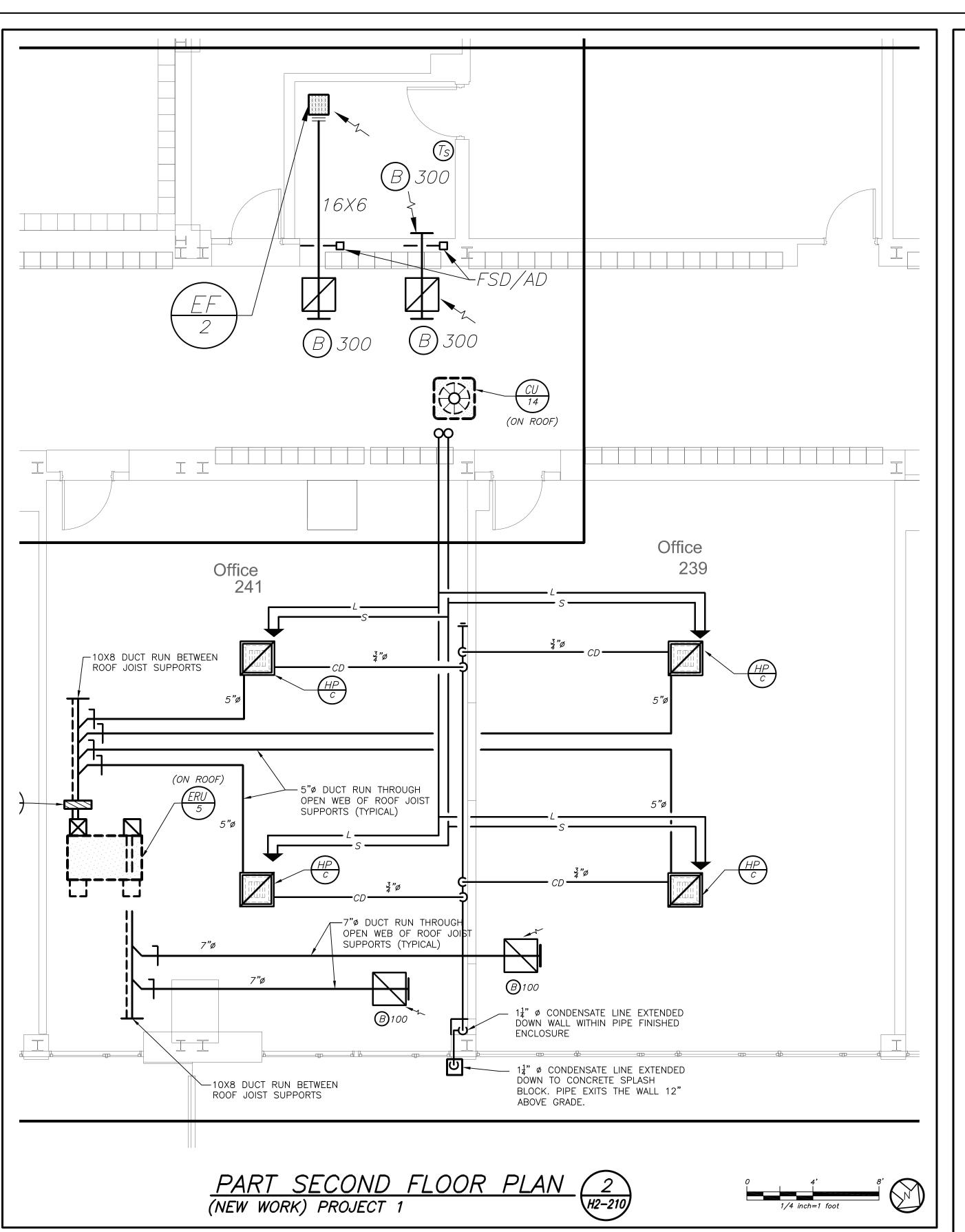
PROJECT 1&2

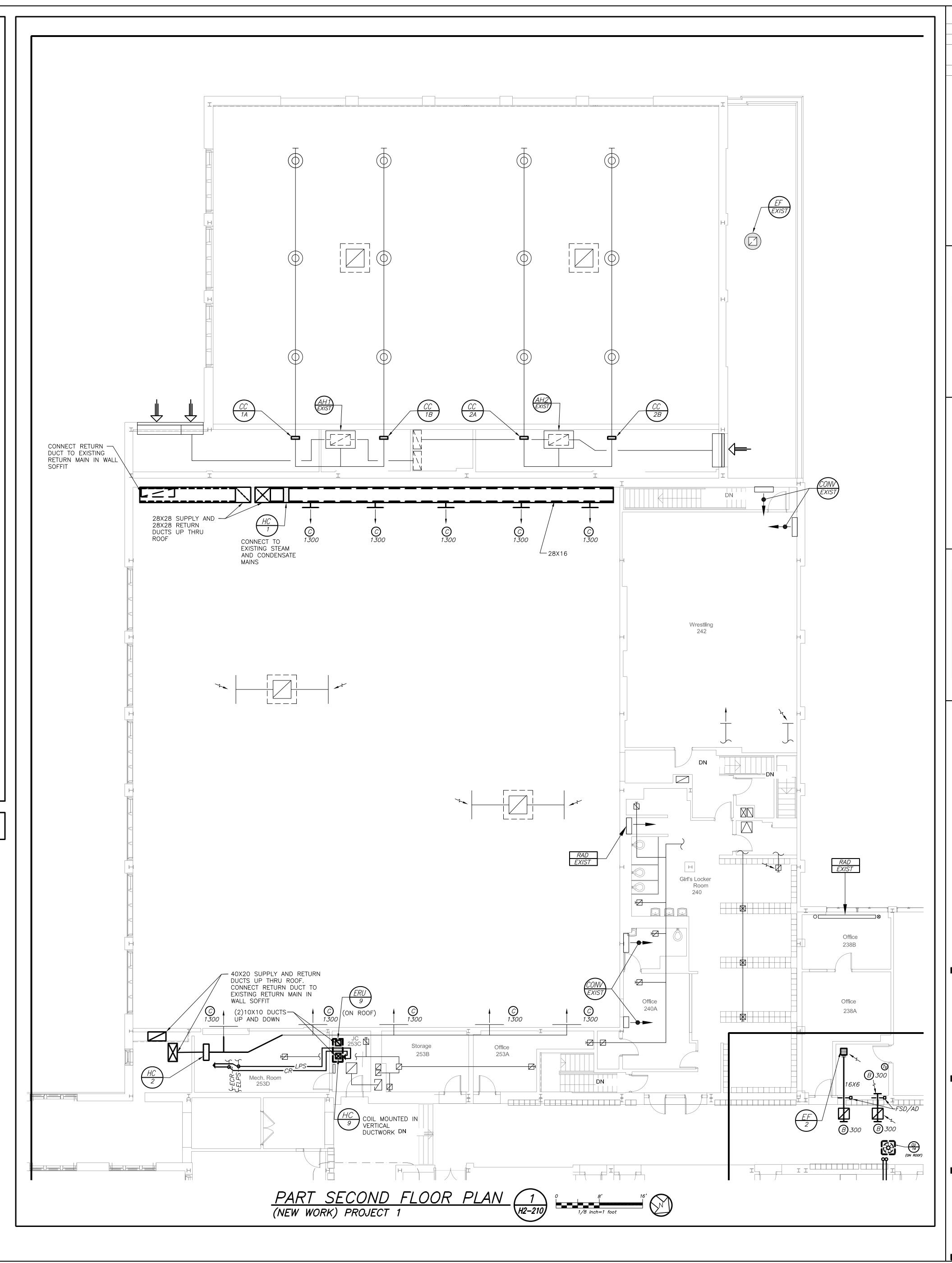
SEAL & SIGNATURE | DATE: PROJECT No: 9200 DRAWING BY: BGA CHK BY: BGA

DWG No: H2-209

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—209—MHS.dwg — DATE: Jan 15, 2021 — 3:57pm

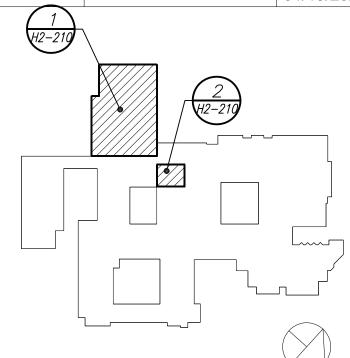




Revision Schedule

Description SED Submission

09/15/2020 SED Submission Addendum#1 01/08/2021 ISSUED FOR BID 01/19/2021



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

#### 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 & MIDDLE SCHOOL PART SECOND FLOOR PLAN

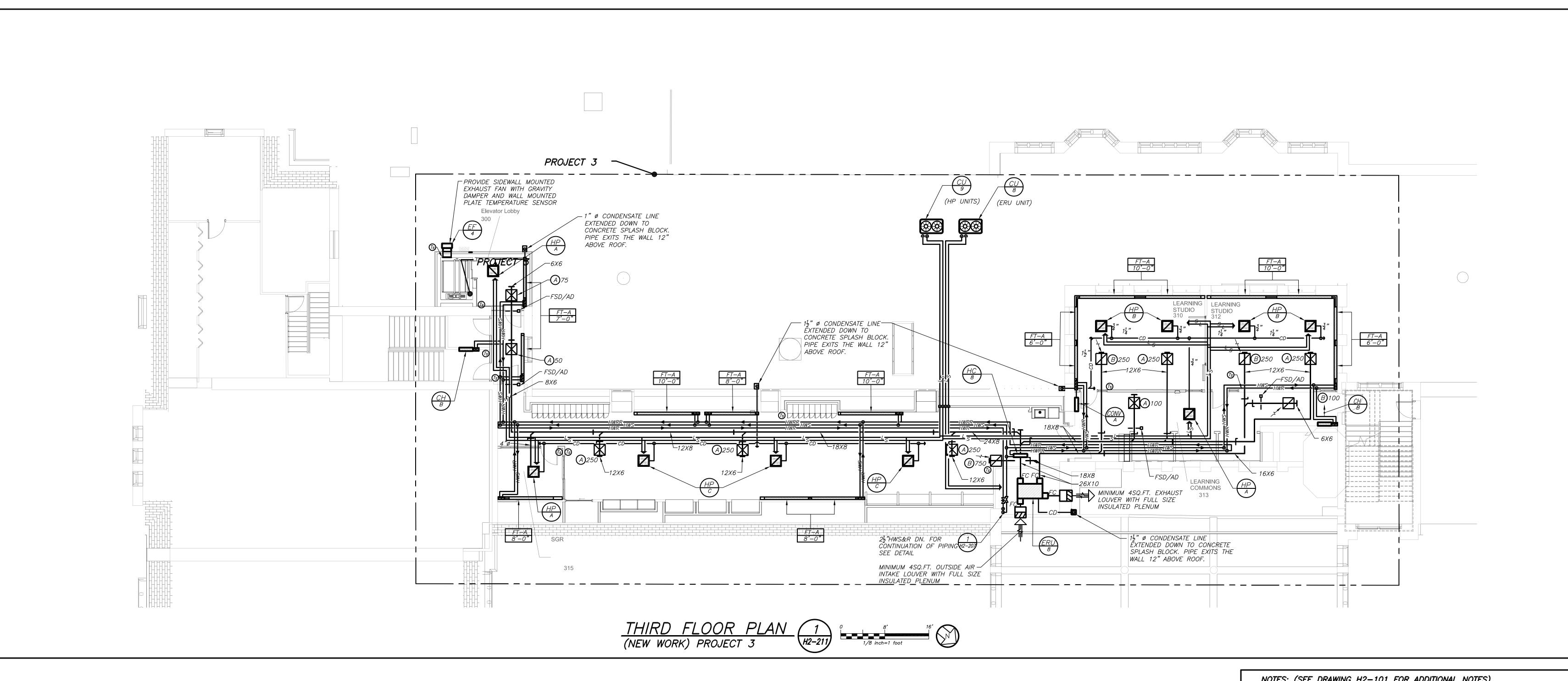
PROJECT 1

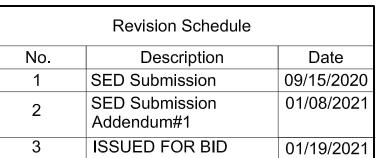
SEAL & SIGNATURE | DATE: PROJECT No: 9200 DRAWING BY: BGA CHK BY: BGA DWG No:

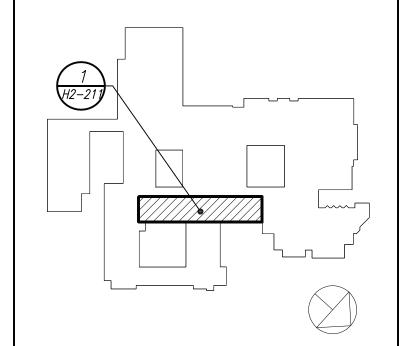
H2-210

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DBE: TAB: Layout1 - Y:\RYE CITY SD\Rye CSD - 2019 Bond - Phase 2 (1937.00)\Drawings\HVAC\a193700H-210-MHS.dwg - DATE: Jan 15, 2021 - 3:20pm







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

#### 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

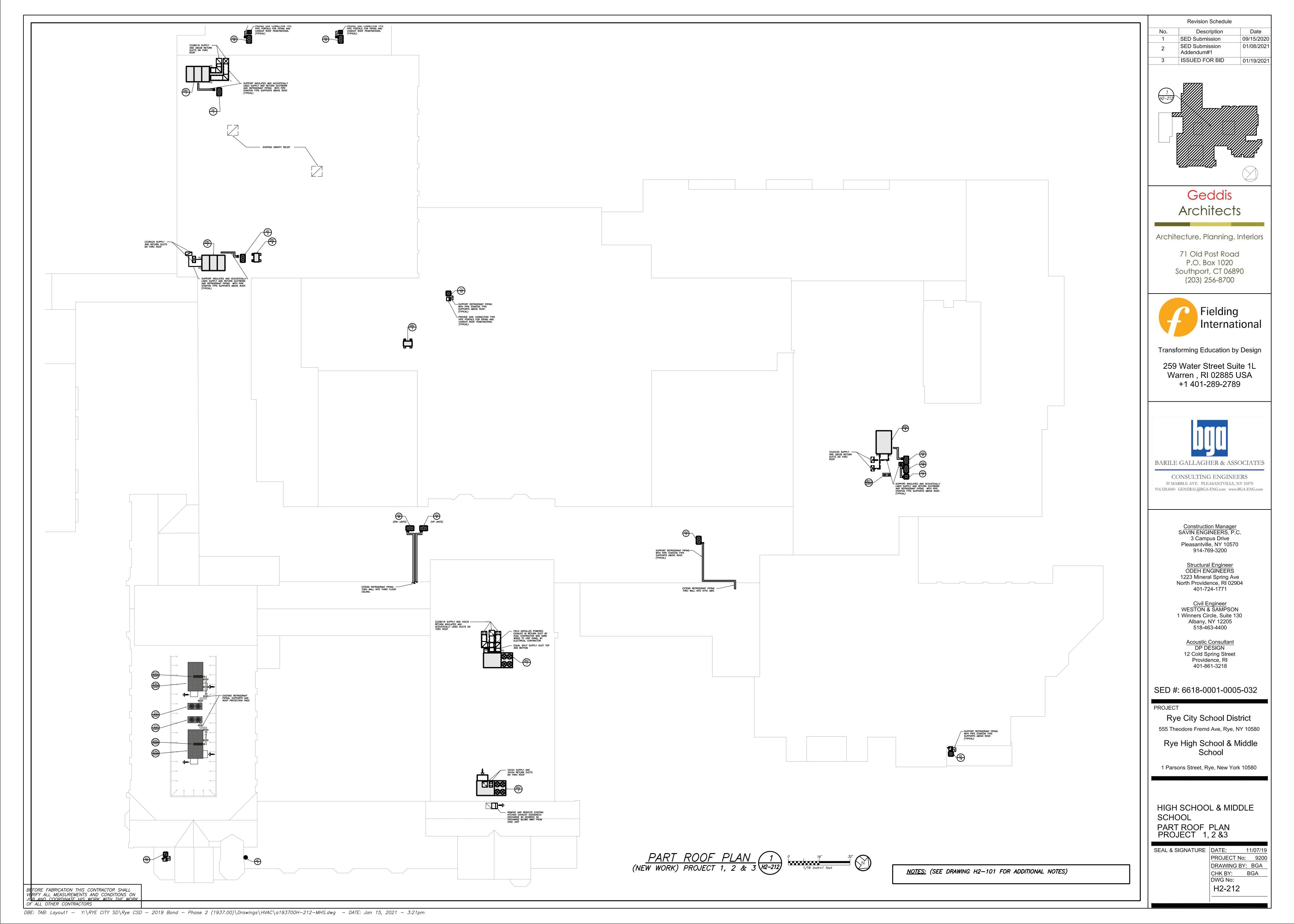
HIGH SCHOOL & MIDDLE SCHOOL THIRD FLOOR PLAN

PROJECT 3

SEAL & SIGNATURE DATE: PROJECT No: 9200 DRAWING BY: BGA CHK BY: BGA

DWG No: H2-211

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—211—MHS.dwg — DATE: Jan 15, 2021 — 3:56pm



GENERA	AL DATA			SL	JPPLY	FAN DATA		RETU	JRN-E	XHAUST F.	AN		HEAT	TRAN	SFER			COOLI	ING COIL	DATA	24		Н	'EATING (	COIL DAT	TA (	34		PRE & .	AFTER-FIL	TER DATA	ELEG	CTRICAL	. DATA	ERU	DIMENSIC	ON & WTS.	GENEA
K SERVICE	LOCATIO	OUISIDE N AIR CFM MIN/MAX	MODEL No.	CFM	EXT. S.P. IN WG	ТҮРЕ	MOTOR HP	CFM MIN/MAX		TYPE	MOTOR HP	SIZE	SUM LA DB °F	MER T WB 'F	WINTE LAT OB 'F   W	R MOTO B F	OR H.P.	ONDENSING UNIT	TOTAL/SEN MBH	No. OF ROWS	FACE VEL. F.P.M.	ENT. AIR TEMP. D.B./W.B.	MARK	TOT. CAP. MBH	MIN. COIL FACE AREA	ENT. AIR TEMP. °F	LVG. AIR TEMP. *F	G.P.M.	NO.	SIZE	TYPE	MCA M	IOCP '	ELECTRIC SERVICE	L	W H	WTS-#	REMAR
HS GYM	ROOF	3300/6600	0 ERP-E-0	6600	2.0	PLENUM	10	3300/6600	2.0	PLENUM	7.5	03	80.1	67.2	53.4 4	13.0 0	).25	EE CU	-	_	-	-	SEE HC	360	-	40	90	40	-	- 2 4	" MERV 10 " MERV 13	32	35	460/3/60	216 !	93 86	5500	REFER <b>©</b>
HS GYM	ROOF	3300/6600	$\mathcal{O}$ $ERP-E-0$	6600	2.0	PLENUM	10	3300/6600	2.0	PLENUM	7.5	03	80.1	67.2	53.4 4	13.0 0	).25	EE CU 2	-	_	-	-	SEE HC 2	360	-	40	90	40	_	_ 2	" MERV 10 " MERV 13	32	35	460/3/60	216 9	93 86	5500	REFER
HS CONF. RM. TOILET RM.	CEILING	600	<i>U</i> – <i>ERV600</i>	600	2.0	CENTRIFUGAL	_	600	2.0	CENTRIFUGAL	_	_	79.5	66.9	53.4 4	2.5		EECU 3	ı	_	-	-	SEE HC 3	_	-	-	_	-	2 5	"X40"X2" 2	" MERV 13	10.6	15 .	208/1/60	56	34 12	129	REFER
HS NURSE/OFFI	CE CEILING	400	<i>U–ERV600</i>	400	2.0	CENTRIFUGAL	_	325	2.0	CENTRIFUGAL	_	_	78.9	66.1	57.4 4	15.3	- S	EE CU 4A	Ī	_	-	-	SEE HC 4	_	-	-	_	-	2 5	"X40"X2"		10.6	15 .	208/1/60	56	34 12	129	REFER
HS OFFICES	ROOF	200	<i>U–ERV600</i>	200	2.0	CENTRIFUGAL	-	200	2.0	CENTRIFUGAL	_	_	77.6	65.1	61.8 4	18.1	-		1	-	-	-	SEE HC 5	_	-	-	-	-	2 5	"X40"X2"	<b>▼</b>	10.6	15 .	208/1/60	56	34 12	129	REFER <b>(5)</b> (7)
MS CLASSROOM	ROOF	3300/6000	$O \left  \frac{\mathbf{Q}}{ERP-E-07} \right $	6600	2.0	PLENUM	10	3300/6600	2.0	PLENUM	7.5	03	80.3	67.4	53.3 4	2.7 0	).25	EECU 6	ı	_	-	-	SEE HC 6	360	_	40	90	40	_		" MERV 10 " MERV 13	32	35	460/3/60	216 9	13 86	5500	REFER
MS SECURITY	CEILING	50	H150-TRG	50	0.75	CENTRIFUGAL	-	50	0.75	CENTRIFUGAL	-	-	77.6	65.1	61.8 4	18.1	-		-	_	-	-	SEE HC 7	_	-	-	-	-	2	- 2	" MERV 13	1.5	15	120/1/60	24	22 12	50	REFER <b>(5)</b> (8)
TOILET RM.  HS NURSE/OFFI.  HS OFFICES  MS CLASSROOM  HS CLASSROOM  HS CLASSROOM  HS TOILET RM.  HS SECURITY  MS SECURITY  MS SECURITY	CEILING	1500	<i>U–ERV180</i> 0	1500	2,0	CENTRIFUGAL	_	1500	2.0	CENTRIFUGAL	_	-	79.6	66.5	55.3 4	13.9	- S	EE CU 8	_	_	_	-	SEE HC 8	_	_	_	_	-	6 5	"X40"X2"		19.2	25	208/3/60	56	34 36	<i>387</i>	REFER
HS TOILET RM	ROOF	400	<i>U–ERV600</i>	400	2.0	CENTRIFUGAL	_	400	2.0	CENTRIFUGAL	_	_	78.9	66.1	57.4 4	45.3	-		_	_	_	-		_	_	_	_	_	2 5	"X40"X2"	•	10.6	15 .	208/1/60	56	34 12	129	REFER
HS SECURITY	CEILING	50	<b>Q</b> PE7.15ERV	50	0.75	CENTRIFUGAL	-	50	0.75	CENTRIFUGAL	_	-	77.6	65.1	61.8 4	18.1	-		_	_	_	-		_	_	-	_	-	2 5	"X40"X2" 2	" MERV 13	1.5	15	120/1/60	24 2	22 12	50	REFER
MS GYM	MER	11,000	ERV-E-09	11000	2.0	PLENUM	-	11000	2.0	PLENUM	_	_	-	-	-	-	-	EE CU 5	_	_	-	-		_	_	_	-	-	-	_		-		208/3/60	-		_	REFER OC

AS MANUFACTURED BY "ANNEXAIR." AS MANUFACTURED BY "ENERGY WALL."

AS MANUFACTURED BY "GREENTEK." (2) BASED ON A.R.I. CERTIFIED COIL SELECTIONS. BASED ON HOT WATER SUPPLY TEMPERATURE OF 160°F AND RETURN TEMPERATURE OF 140°F.

5 INSTALL IN ACCORDANCE WITH MANUFACTURER'S

4 DESIGN AIR CONDITIONS: SUMMER OA (95°F/75°F) RA (75°F/63°F) WINTER OA (6°F) RA (70°F/53°F)

6 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.

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 MOUNTÉD 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.

B 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.

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

										SCHE	DULE C	OF PAC	CKAGED	ROOF	TOP RT	U UN	IT														
	C	GENERAL DATA			FAN L	DATA			GAS HEA	ATING DATA	3		COOLII	NG DATA	34	COI	NDENSER DATA		COMPI	RESSOR	DATA	FI	LTER D	ATA	PHYSIC	CAL DATA	EL	.ECTRIC	CAL DA	1 <i>TA</i>	
MARK	SERVICE	MODEL NUMBER	OAI CFM MAX./MIN.	CFM	EXT. S.F IN H <sub>2</sub> O	P. FAN RPM	MOTOR HP	INPUT MBH	OUTPUT 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	REFRIG.	ENT. AIR TEMP. DB °F	HP	QTY.	R.L.A. (EACH)	L.R.A. (EACH)	QTY.	SIZE (IN.)	TYPE	WEIGHT (LBS.)	LxWxH (IN.)	FLA	МСА	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 <b>266</b>
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 <b>296</b> REFER TO <b>296</b>

N 1 AS MANUFACTURED BY "TEMPMASTER".

O O INSTALL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.

E 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).

BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A, EER 12.2,

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.

PUMP FAILURE.

6 POWERED EXHAUST TO BE FIELD SUPPLIED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.

		S	CHED	ULE OF	EXHAL	IST FA	4 <i>NS</i>			
MARK	BUILDING	SERVICE	LOCATION	TYPE	MODEL No. <b>①</b>	CFM	TOT. S.P. IN H <sub>2</sub> O	HP AMPS	ELECTRIC SERVICE	REMARKS
EF \( EF \\ EF \\ 2 \\ 3 \)	HIGH SCHOOL MIDDLE SCHOOL	ELECTRIC ROOM —	CEILING	CENTRIFUGAL	SP-A510	300	0.25	- 1.40	120/1/60	REFER TO 23
EF 4	HIGH SCHOOL	ELEVATOR SHAFT	WALL	CENTRIFUGAL	CUE-080-VG	300	0.25	1/10 -	120/1/60	REFER TO 24
EF 5	HIGH SCHOOL	TOILET RM —	ROOF	CENTRIFUGAL	G-095-DGEX-QD	250	0.25	1/8 -	120/1/60	REFER TO 24

N (1) AS MANUFACTURED BY "GREENHECK".

T 2 INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PROVIDE FACTORY MOUNTED SPEED CONTROLLER AND DISCONNECT, ALUMINUM GRILLE, BACKDRAFT DAMPER, VIBRATION ISOLATORS AND MOUNTING HARDWARE.

PROVIDE FAN WITH VARIABLE SPEED DRIVE ON MOTOR, UL705 RATED, NEMA 3R DISCONNECT SWITCH, GALVANIZED SIDE WALL MOUNTING SUPPORTS, ALUMINUM WALL GRILLE.

		SCHEDULE	OF DIF	RECT EX	KPANS	SION C	COILS
		GENERAL DATA		CAPAC	CITY		
MARK	BUILDING	SERVICE	COOLING TOTAL (MBH)	COOLING SENS. (MBH)	CFM	ENT. AIR SUCT TEMP. DB/WB TEMP.	
CC CC 1A 1B	HIGH SCHOOL	CU AHT AUXILIARY GYM	192	150	4500	78°F 45	REFER TO 1234
CC $CC$ $2A$ $2B$	HIGH SCHOOL	CU (AH2) 12 EXIST AUXILIARY GYM	192	150	4500	78°F 45	REFER TO 1234
<u>CC</u> 7	MIDDLE SCHOOL	CU ERUS MS GYM	233	199	8000	78°F 45	REFER TO 1234

**N**  $\bigcirc$  AS MANUFACTURED BY "NATIONWIDE COIL.".

0 (2) REFRIGERANT R-410A.

3) INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. BASED ON A.R.I. CERTIFIED COIL SELECTIONS

		5	CHEDU	JLE OF	F OUT	DOOF	R VRI	F CC	NDENS	SING	UNI7	S	
		GENERAL L	DATA	CAPACITY		PHYSICA	L DATA		ELECTRI	CAL SUP	PLY		
MARK	BUILDING	SERVICE	MODEL ① No.	COOL/HEAT (MBH)	UNIT WEIGHT (POUNDS)	L	W	Н	SERVICE	MCA	MOCP	EER/SEER	REMARKS
	HIGH SCHOOL	ERU GYM	ARUM241DTES	233/243	800	49"	<i>30"</i>	67"	460/3/60	41.4	50	12.4/25.9	REFER TO 23457
<u>CU</u> 2	HIGH SCHOOL	ERU GYM	ARUM241DTES	233/243	800	49"	<i>30"</i>	67"	460/3/60	41.4	50	12.4/25.9	REFER TO 23457
<u>CU</u> 3	HIGH SCHOOL	ERU CONF.RM.	ARUN038GSS4	38/42	250	<i>38"</i>	16"	55''	208/1/60	25	40	10.7/17.0	REFER TO 23456
<u>CU</u>	HIGH SCHOOL	HP NURSE/OFFICE	ARUN038GSS4	38/42	250	<i>38"</i>	16"	<i>55''</i>	208/1/60	25	40	10.7/17.0	REFER TO <b>23456</b>
CU 4A	HIGH SCHOOL	ERU NURSE/OFFICE	ARUN024GSS4	24/27	250	<i>38"</i>	16"	33''	208/1/60	19.6	30	10.7/17.0	REFER TO 23456
<u>CU</u> 5	MIDDLE SCHOOL	ERUS GYM	ARUM241DTES	233/243	800	49"	<i>30"</i>	67"	460/3/60	41.4	50	12.4/25.9	REFER TO 23457
<u>CU</u>	MIDDLE SCHOOL	ERU CLASSROOMS	ARUM241DTES	233/243	800	49"	<i>30"</i>	67''	460/3/60	41.4	50	12.4/25.9	REFER TO 23457
(V)	MIDDLE SCHOOL	HP G OFFICES	ARUN048GSS4	48/54	300	<i>38"</i>	16"	<i>55''</i>	208/1/60	30	50	10.7/17.0	REFER TO 23456
<u>CU</u> 8	HIGH SCHOOL	ERU B CLASSROOMS	ARUM096DTES	96/108	600	49"	<i>30"</i>	67"	460/3/60	16.4	25	12.4/25.9	REFER TO 23456
<u>CU</u> 9	HIGH SCHOOL	(HP) CLASSROOMS	ARUM096DTES	96/108	600	49"	<i>30"</i>	67"	460/3/60	16.4	25	12.4/25.9	REFER TO 23456
<u>CU</u> 10	HIGH SCHOOL	AH1 EXIST AUXILIARY GYM	ARUM192DTES	192/216	800	49"	<i>30"</i>	67''	460/3/60	<i>35.7</i>	50	12.4/25.9	REFER TO 23456
<u>CU</u> 11	HIGH SCHOOL	HP SECURITY OFFICE	ARUN024GSS4	24/27	250	<i>38"</i>	16"	33''	208/1/60	19.6	30	10.7/17.0	REFER TO 23456
<u>CU</u> 12	HIGH SCHOOL	AH2 EXIST AUXILIARY GYM	ARUM192DTES	192/216	800	49"	<i>30"</i>	67''	460/3/60	35.7	50	12.4/25.9	REFER TO 23456
<u>CU</u> 13	MIDDLE SCHOOL	(HP) CLASSROOMS	ARUM168DTES	168/189	700	49"	<i>30"</i>	67"	460/3/60	28.5	35	12.4/25.9	REFER TO 23456
<u>CU</u> 14	HIGH SCHOOL	(HP) CLASSROOMS	ARUM072DTES	72/81	500	37"	<i>30"</i>	67"	460/3/60	12.8	20	12.4/25.9	REFER TO 23456
CU 15	MIDDLE SCHOOL	HP SECURITY OFFICE	ARUN024GSS4	24/27	250	38"	16"	33''	208/1/60	19.6	30	10.7/17.0	REFER TO <b>23456</b>

AS MANUFACTURED BY "LG ELECTRONICS.". BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.

(3) INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD. 5 UNIT SHALL BE CONTROLLED VIA MANUFACTURER'S DDC

NETWORK CONTROLLER TO INDOOR HARDWIRED CONTROLLER.

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.

	S	CHEDUL	E OF	REGIS	TERS	AND	DIFFUS	SERS
MARK	TYPE	SERVICE	MODEL No. 🕥	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	TYPE	REMARKS
A	CEILING DIFFUSER	SUPPLY	620	DOUBLE DEFLECTION	OPPOSED BLADE	PER ARCH.	SURFACE	REFER TO 234
B	CEILING REGISTER	EXHAUST	735FF	-	OPPOSED BLADE	PER ARCH.	SURFACE	REFER TO 235
0	SIDEWALL REGISTER	SUPPLY	620	DOUBLE DEFLECTION	OPPOSED BLADE	PER ARCH.	LAY-IN	REFER TO 234
D	SIDEWALL REGISTER	EXHAUST	735FF	_	OPPOSED BLADE	PER ARCH.	SURFACE	REFER TO 235
E	CEILING GRILLE	TRANSFER	735FF	-	OPPOSED BLADE	PER ARCH.	SURFACE	REFER TO 235
(X)	EXISTING RE	GISTER/GRILLE						

N (1) AS MANUFACTURED BY "PRICE". INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES AND DIMENSIONS WITH ARCHITECT.

4				PER 500 fp		PANGE	<u>5</u>		RN NEO			CFM F	RANGE	
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	24X2

	S	CHEDU	LE	OF	IND	OOR VRF		IE/	17	PL	IMP UNITS
			//	NDOOR	UNIT INF	FORMATION					
GENE	RAL DATA	MODEL	SUPF	PLY FA	N DATA	TOTAL CAPACITY	DIME	NSIOI	N/WE	IGHT	
MARK	SERVICE	No. ①	CFM LOW	UNIT MCA	ELECTRIC SERVICE	COOLING/HEATING kBTU/HR	W (IN.)	D (IN.)	H (IN.)	LBS	
(HP) A	SEE PLANS	ARNU093TRD4	265	0.2	208/1/60	9.6/10.9	24	24	10	40	REFER TO 234
HP B	SEE PLANS	ARNU123TQD4	300	0.2	208/1/60	12.3/13.6	24	24	10	40	
HP C	SEE PLANS	ARNU183TQD4	390	0.2	208/1/60	19.1/21.5	24	24	11	70	
HP D	SEE PLANS	ARNU093TUD4	300	0.2	208/1/60	9.6/10.9	34	18	6	50	
HP E	SEE PLANS	ARNU123TUD4	325	0.2	208/1/60	12.3/13.6	34	18	6	50	
HP F	SEE PLANS	ARNU183TTD4	425	0.3	208/1/60	19.1/21.5	47	18	6	60	•
HP G	SEE PLANS	ARNU483NKA4	1400	1.8	208/1/60	48.0/54.0	25	22	55	150	2345

 $\mathsf{N}$  (1) AS MANUFACTURED BY "LG ELECTRONICS". 1 INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

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 E 3 BASED ON A.R.I. CERTIFIED COIL SELECTIONS; CONDENSAIL PUMP (FUK CASSELLE UNITS).

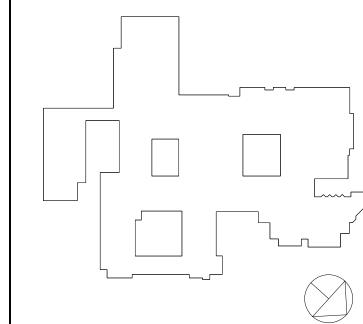
S REFRIGERANT R-410A, EER 12.4/SEER 25.9/HSPF10.3. PROVIDE FLOOR MOUNTED CONDENSATE PUMP LITTLE GIANT MODEL VCL-24ULS, 1/18HP, 120V/1PH/60HZ, 148 WATTS, WITH AUTOMATIC AHU SHUT DOWN ON OVERFLOW OR PUMP FAILURE.

SED Submission 09/15/2020 01/08/2021 SED Submission Addendum#1 ISSUED FOR BID 01/19/2021

Revision Schedule

Description

Date



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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

SCHEDULE

HIGH SCHOOL & MIDDLE SCHOOL

SEAL & SIGNATURE | DATE: PROJECT No: 9200 DRAWING BY: BGA CHK BY: BGA

DWG No: H2-301

									SCH	EDULE	OF EX	ISTING	AIR HA	ANDLING	UNIT	Τ										
	C	SENERAL DATA			FAN	DATA			HEATING				NG DATA	34		ENSING UNIT	f	FILTER D	DATA	PHYSIC	CAL DATA	E	LECTRI	ICAL [	DATA	
		MODEL NUMBER	OAI CFM MAX./MIN.	CFM	EXT. S.I IN H <sub>2</sub> O	P. FAN RPM	MOTOR HP	TOTAL CAP. MBH	ENT. AIR TEMF DB °F	P. 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	REMARKS
AHU1 EXIST	AUXILIARY GYM AUXILIARY GYM	_	4500 1800	4500	1.0	-	_	205	40	110	170	120	78/65	55/54	<u>CU</u>	AUXILIARY GYM	_	-	MERV 13	_	_	_		_	208/3/60	REFER TO  ②⑤
AHU2 EXIST	AUXILIARY GYM	_	4500 1800	4500	1.0	_	_	205	40	110	170	120	78/65	55/54	<u>CU</u> 12	AUXILIARY GYM	_	-	MERV 13	_	_	_		<u> </u>	208/3/60	<b>2</b> 6

N 1 AS MANUFACTURED BY "CARRIER".

6 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.

0 (2) REFURBISH IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.

F (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).

BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A, SEER 12.0,

			SC	CHED	ULE	OF U	INIT H	HEATER		
<i>IARK</i>	MODEL No. 🕦	BTU/HR	CAPACIT EWT °F		GPM	MOTOR WATTS	ELECTRIC SERVICE		DATA WEIGHT (LBS)	REMARKS
UH A	HS-18	11725	160	140	1.0	9	120/1/60			REFER TO (1)(2)(3)(4)

N (1) AS MANUFACTURED BY "STERLING".

O O INSTALL PER MANUFACTURER'S RECOMMENDATIONS

CAPACITIES BASED ON HIGH SPEED FAN SETTING AND HW 160°F/140°F

S 4 QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.

		SC	CHEC	)UL	E	OF	CA	BINE	T HE	EATER	S	
MARK	TYPE UNIT	MODEL N≗	CAP. BTU/HR	ACITY L CFM		2 PD.FT.	MOTOR HP	MOTOR RPM	ELECTRIC SERVICE	PHYSICAL (IN)	DATA WEIGHT (LBS)	REMARKS
CH A	RECESSED CLG. MTD.	RC1200-03	21,900	265	3.0	0.77	1/15	1100	120/1/60	43Wx25Lx10H	125	REFER 10 234
CH B	RECESSED WALL MTD.	RW1120-03	21,900	265	3.0	0.77	1/15	1100	120/1/60	43Wx25Lx10H	125	REFER 10 234

N 0 AS MANUFACTURED BY "STERLING".
2 INSTALL PER MANUFACTURER'S RECOMMENDATIONS

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

	SCHEDULE OF CONVECTORS													
MARK	MODEL No. 🛈	MBH	GPM	D P	PHYSICA L	AL DA H	TA WEIGHT	REMARKS						
CONV	SF-A	3.5	1.0	4"	<i>36"</i>	26"	50	REFER TO						
CONV	SF-A	8.0	2.0	6"	48"	32"	<i>75</i>	23						
CONV	SF-A	11.0	2.0	6"	64"	32"	100	23						

N (1) AS MANUFACTURED BY "STERLING". 2 INSTALL PER MANUFACTURER'S RECOMMENDATIONS

· (3) CAPACITIES BASED ON 150° A.W.T.

SC	HEDULE	OF EX	PANSION	V TANK
MARK	MODEL Nº <b>①</b>	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
ET 1	B-400	106	106	REFER TO 23

 $\bigcap$  (1) AS MANUFACTURED BY "BELL & GOSSETT".

T (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. VERTICAL MOUNTING 125PSI ASME TANK, DIMENSIONS 24" x65"H / 1200LBS.

			SC	HED	ULE	OF.	DU	CT N	10UN	ITED F	HEATI	NG	CO	ILS		
$\begin{array}{c c} HC \\ \hline 1 \\ \hline HIGH SCHOOL \\ \hline 2 \\ \hline HIGH SCHOOL \\ \hline 2 \\ \hline HIGH SCHOOL \\ \hline 3 \\ \hline \end{array}$			SIZE					AIR SIDE						WATER		
MARK	BUILDING	SERVICE	WIDTH (IN.)	HEIGHT INCHES	FACE AREA (FT²)	ROWS	FINS PER INCH	CFM	MBH	PRESS DROP ("WC)	VELOCITY FPM	E.A.T. *F	L.A.T. °F	FLOW RATE (GPM)	PRESS DROP Δ HEAD (FT)	REMARKS
HC 1	HIGH SCHOOL	ERU 1	ı	_	_	2 MINIMUM	12 MAXIMUM	6600	435	0.2" MAX	600 MAX.	10	70	STEAM	5 FT. MAX	REFER TO ①②③
$\frac{HC}{2}$	HIGH SCHOOL	ERU 2	-	_	-			6600	435					STEAM		
$\frac{HC}{3}$	HIGH SCHOOL	ERU 3	-	_	-			600	36					STEAM		
(HC)	HIGH SCHOOL	ERU 4	-	_	_			400	27					3.0		
(HC) 5	HIGH SCHOOL	ERU 5	_	_	-			200	14					2.0		
$\frac{HC}{6}$	HIGH SCHOOL	ERU 6	ı	_	_			6000	396					40.0		
(HC) 7	MIDDLE SCHOOL	ERU3 EXIST	-	_	-			8000	528					53.0		
HC 8	HIGH SCHOOL	ERU 8	_	_	-			1500	99					10.0		
(HC)	HIGH SCHOOL	ERU 9	_	_	_			400	27					3.0		
HC 11	MIDDLE SCHOOL	ERU 11	_	_	_	<b>V</b>	<b>V</b>	400	27	<b>V</b>		V	V	3.0		

 $\stackrel{\mathsf{N}}{\square}$  Entering water temperature 180°F, 20°F  $\Delta$ T.

PROVIDE INSPECTION AND CLEANING DUCT ACCESS DOOR ON UPSTEAM SIDE OF COIL.

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.

			SC	CHEL	DULE	OF	B	OILERS		
Bo	OILER DATA	4	BURI	VER DAT	Ā	ELECTR	<i>ICAL</i>	PHYSICAL	DATA	
MARK	LOCATION	MODEL Nº ①	INPUT (MBH)	OUTPUT (MBH)	FUEL	SERVICE	МСА	(IN)	WEIGHT (LBS)	REMARKS
B B B B 6	BOILER ROOM	ENDURA 1000	1000	902	GAS	120/1/60	20	28Wx51Lx68H	2000	REFER TO 23456

 ${\sf N}$  (1) as manufactured by "fulton".

2) BURNER INTEGRAL TO BOILER.

[ (3) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

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 6 HOT WATER BASED ON 140°F E.W.T., 160°F L.W.T. 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

					SC	HEL	DULE	OF	EXIS	STING	STEA	M BC	ILERS		
			BOILER DATA	4				BURΛ	IER DATA				INDUCED DRA	AFT FAN DATA	
MARK	SERV	VICE	MODEL Nº ①	NUMBER OF SECTIONS	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	MODEL Nº ③	MOTOR HP	REMARKS
BOILER #1	ORIG.E & ADE	BLDG. DITION	6500 -S-21	21	C7-G0-30	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			V	•	<b>V</b>	•	•	•	V	V	V	•	V		

AS MANUFACTURED BY "H.B. SMITH".  $Q \stackrel{\smile}{(2)}$  as manufactured by "Powerflame". AS MANUFACTURED BY "AUBURN".

				SC	CHE	DUL	E O	F PU	MPS		
MARK	SERVICE	LOCATION	MODEL Nº <b>①</b>	GPM	HEAD FT.H₂O	RPM	MOTOR HP/BHP	ELECTRIC SERVICE	PHYSICAL (IN)	DATA WEIGHT (LBS)	REMARKS
	HEATING LOOP	MECHANICAL	SERIES E-1510 5GB	800	80	1800	30/21	460/3/60	25Wx56Lx30H	1100	REFER TO 23
HWP 3 HWP 4	HEATING LOOP	MECHANICAL	SERIES E-1510 3AD	300	130	1800	25/17.5		21Wx52Lx24H	900	REFER TO 23
HWP HWP 6	HEATING LOOP	MECHANICAL	SERIES E-1510 3AD	300	130	1800	25/17.5		21Wx52Lx24H	900	REFER TO 23
<u>HWP HWP HWP</u> 7 8 9	HEATING LOOP	MECHANICAL	SERIES E-80 4x4x9.5B	200	20	1170	2/1.5		12Wx25Lx29H	300	REFER TO 23
EHWP EHWP 10 11	HEATING LOOP	MECHANICAL	- -	200	75	1750	7.5/-	V	_	_	REFER TO 4

 $\begin{array}{c}
N \\
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T
\end{array}$ AS MANUFACTURED BY "BELL & GOSSETT".

TO STALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE VFD'S FOR ALL PUMPS. VFD'S SHALL BE WALL OR STAND MOUNTED NEAR PUMPS. PROVIDE ALL MOUNTING HARDWARE.

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.

					SCH	FDL	II F	OF	UNIT	VF	$\Lambda ITII$	ΔΤ	<i>OR</i>	ς	
				<u> </u>				<u>Oi</u>	OTVIT	<u> </u>	/		O(N)	<u> </u>	
	MODEL		MIN.2	COOLING	G DATA	HEA7	TING DA	TA 2	רוו דרם	LIOTOS	EL EC	110705		PHYSICAL DATA	
MARK	No.	CFM	O.A. CFM	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	CAPACITY MBH	GPM	ROWS			ELEC. SERV.		MCA	DIMENSION / WEIGHT	REMARKS
UV A	VER1000 <b>①</b>	1000	550	-	_	76	5	2	THROWAWAY (2)12"x20"x2"	0.5 EA	208/1/60	4.7	_	44"Lx30"Wx115"H/600LBS	REFER TO
UV B	VER1800 <b>①</b>	1800	1055	-	_	76	5	2	THROWAWAY (2)12"x20"x2"	0.5 EA	208/1/60	4.7	7	44"Lx30"Wx115"H/600LBS	34
$\frac{\overline{UV}}{c}$	MAUV1500	1500	1055	-	_	84	9	3	THROWAWAY	0.5	115/1/60	4.7	5.9	100"Lx22"Wx30"H/750LBS	35

 ${\sf N}$  (1) as manufactured by "temspec inc". O 6 AS MANUFACTURED BY "MAGIC AIRE CORP". T BASED ON 160' F E.W.T., 140' F L.W.T.

WITH MULTIPLE REGISTERS, FIELD ERECTED TOP EXTENSION SECTIONS TO CEILING, MODULATING ECONOMIZER (100% OA) CONTROLS, FULL BASED ON 160° F E.W.T., 140° F L.W.T.

TO CEILING, MODULATING ECONOMIZER (100% OA) CONTROLS, POWERED EXHAUST, FIELD ERECTED REAR PLENUM SECTIONS, FULL

COLOR AND FINISH).

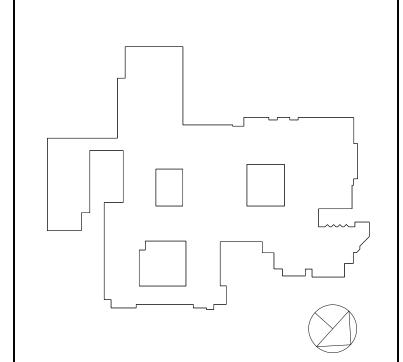
SIZE LOUVER, FACTORY INSTALLED CONTROLS, CONTROL VALVES ISOLATION VALVES, STRAINERS, PT PORTS, BRAIDED HOSE-KIT, HIGH EFFICIENCY MOTORS, 2" THICK MERV 13 FILTERS, SIDE PIPE COVERS, FULL HEIGHT SIDE PANELS FROM UNIT TO WALL AND TOP/BOTTOM TRIM/COVE BASE PIECES. (ALL EXTENSIONS, PANELS, PIPE ENCLOSURES AND TRIM/COVE BASE PIECES SHALL MATCH UNIT

UNIT SHALL INCLUDE ERV (ENERGY RECOVERY WHEEL) PACKAGE, HOT WATER HEATING COIL, FULL ADAPTER BACK WATER HEATING COIL, 24" HIGH ACOUSTICALLY LINED SUPPLY PLENUM WITH PIPE TUNNEL, INSULATED VALVE PACKAGE, DISCHARGE GRILLE WITH SCREEN, INSULATED OUTSIDE AIR DAMPER, FACE AND BYPASS DAMPER, 2" MERV 8 FILTERS, DDC CONTROL PACKAGE, NIGHT SETBACK CONTROL RELAY, BACNet CONTROLLER.

	SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES													
		A	В	С	D	E	F	G	н	1				
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000 SQ.FT.)	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A×B)÷1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUS 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	О	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								İ						
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	o	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	o	27	361	0.8	451	o			
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	o	449	4175	0.8	5219	o			
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	О	15	198	0.8	248	0			
LEARNING STUDIO 312	CLASSROOM (AGES 9+)	402	35	10	0.12	o	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	o	12	65	0.8	81	0			

Revision Schedule Date Description 09/15/2020 SED Submission

01/08/2021 SED Submission Addendum#1 ISSUED FOR BID 01/19/2021



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BARILE GALLAGHER & ASSOCIATES

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> Construction Manager SAVIN ENGINEERS, P.C. 3 Campus Drive Pleasantville, NY 10570

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<u>Civil Engineer</u> 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 #: 6618-0001-0005-032

PROJECT

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

Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

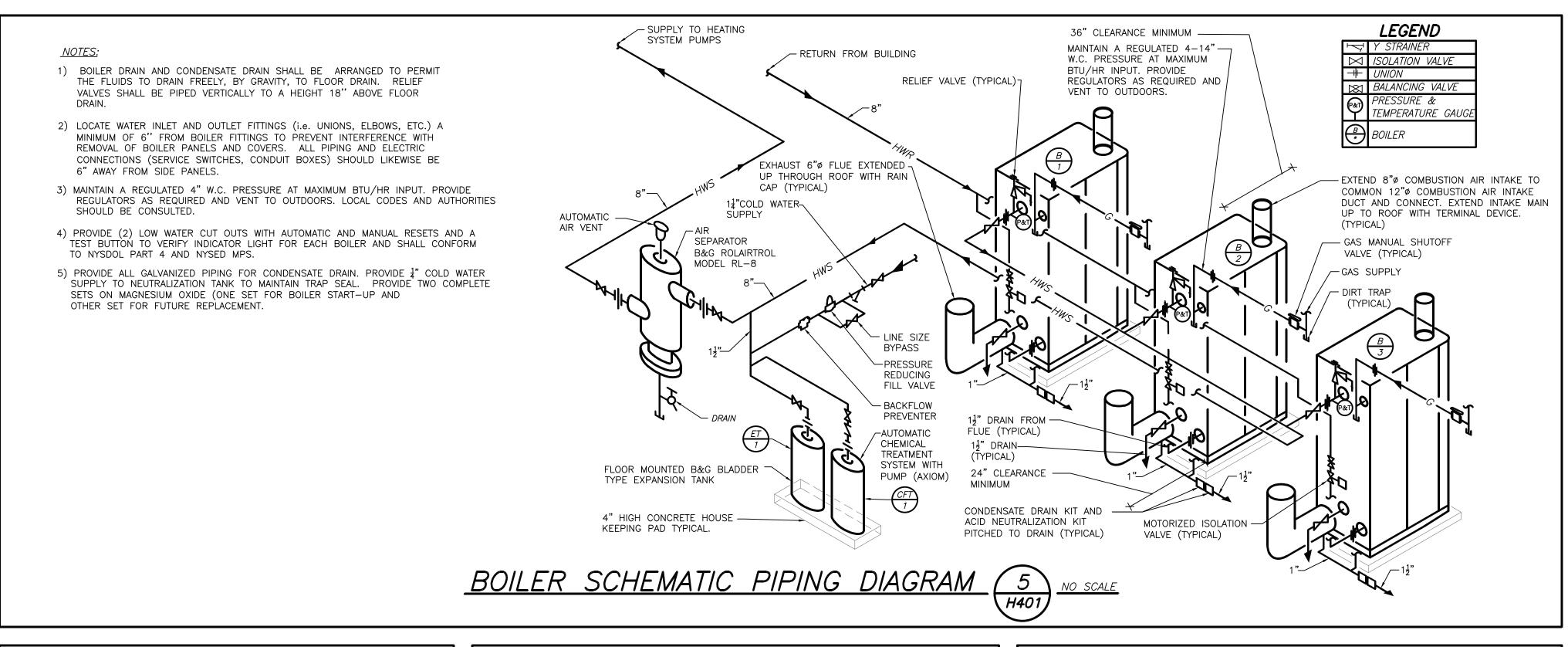
HIGH SCHOOL & MIDDLE SCHOOL SCHEDULE

SEAL & SIGNATURE | DATE: PROJECT No: 9200

DRAWING BY: BGA CHK BY: BGA DWG No: H2-302

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

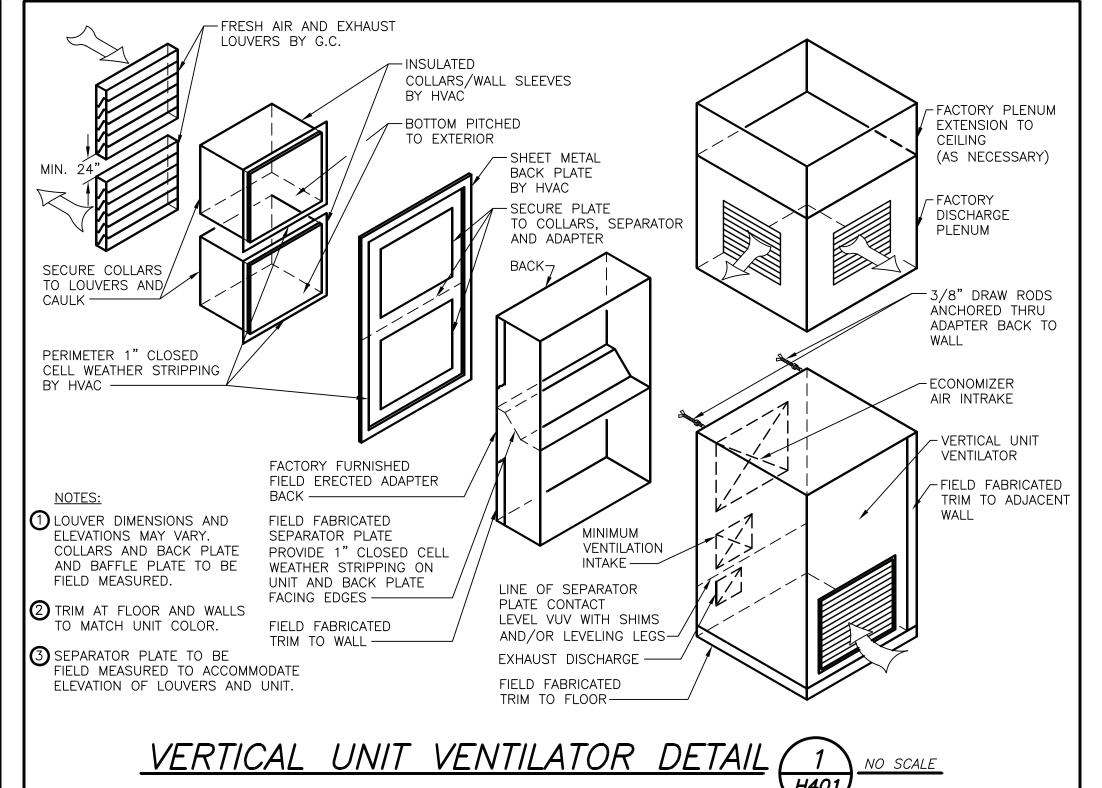
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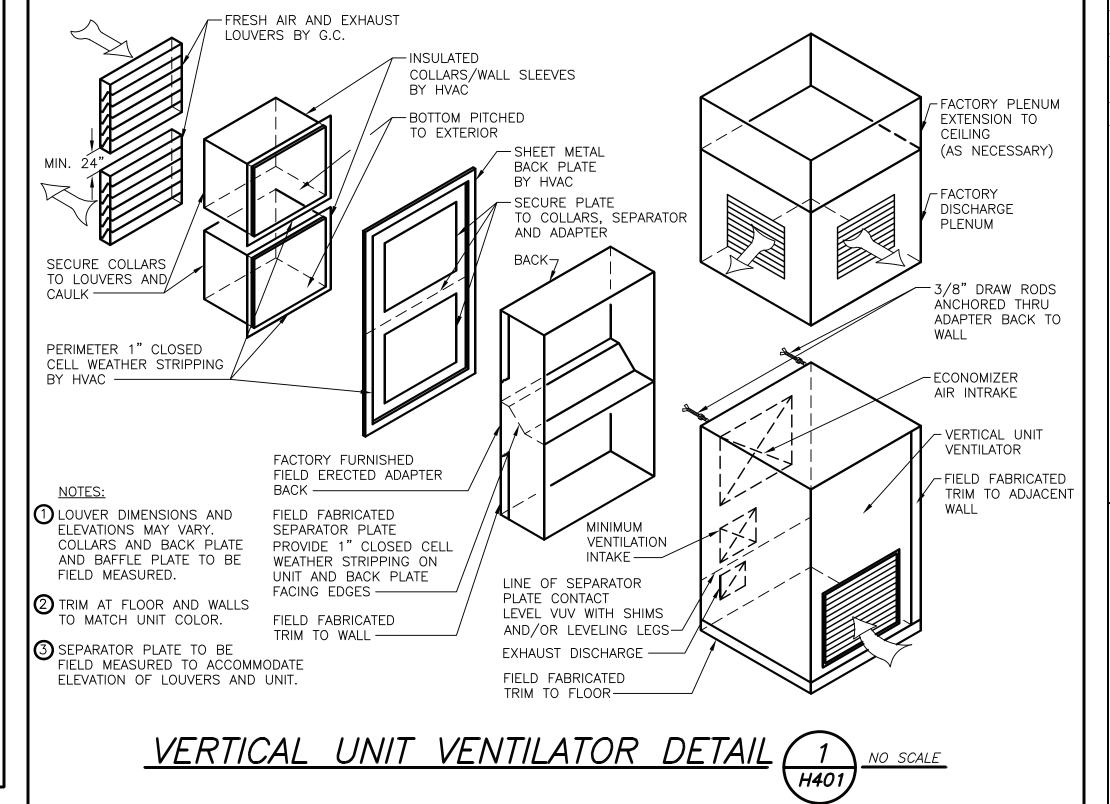


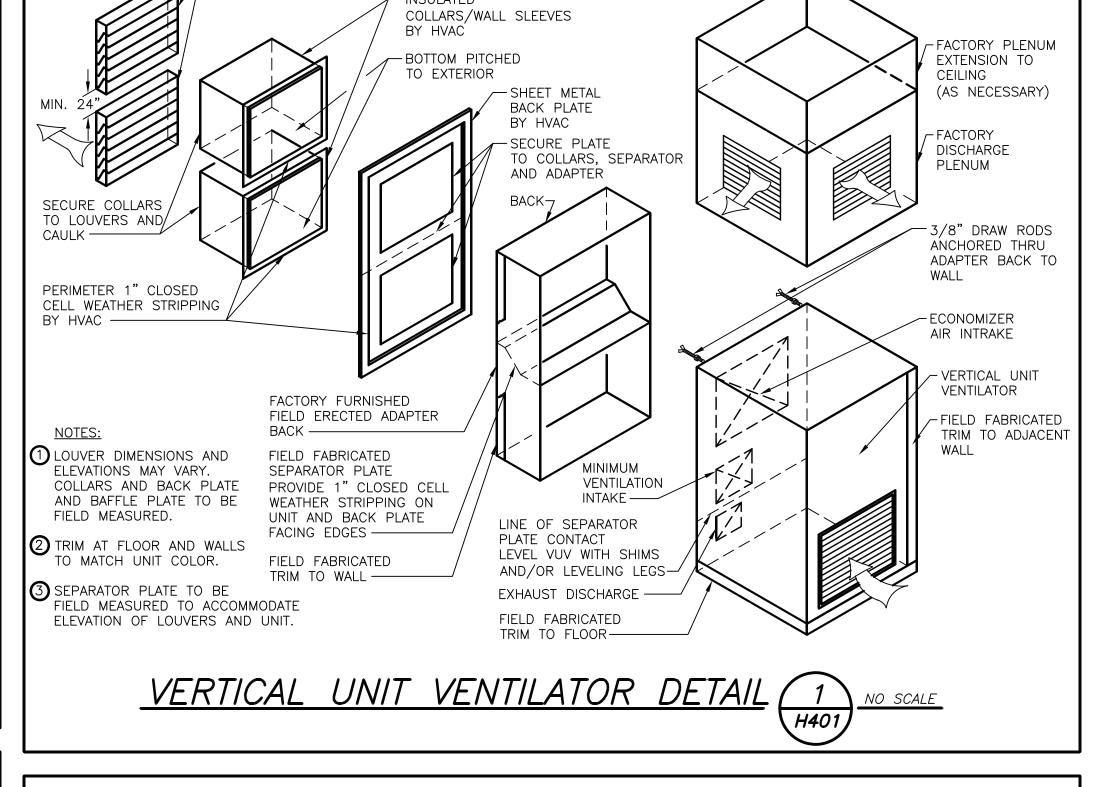
8"ø INSULATED COMBUSTION AIR

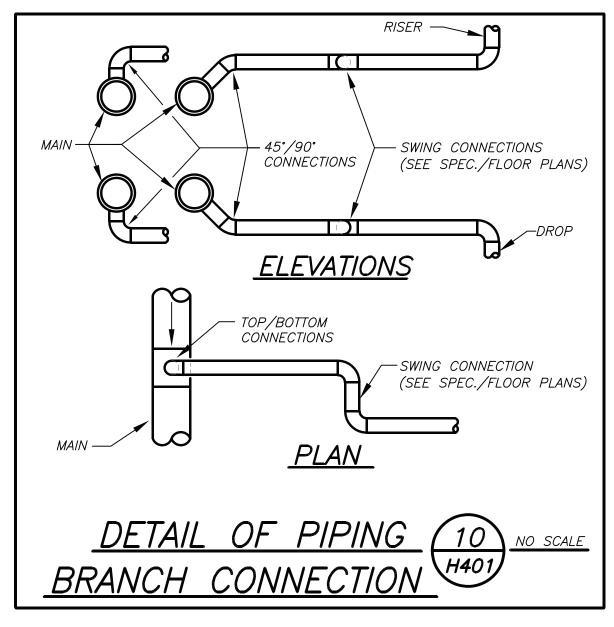
INTAKE PIPED TO COMMON 12"ø

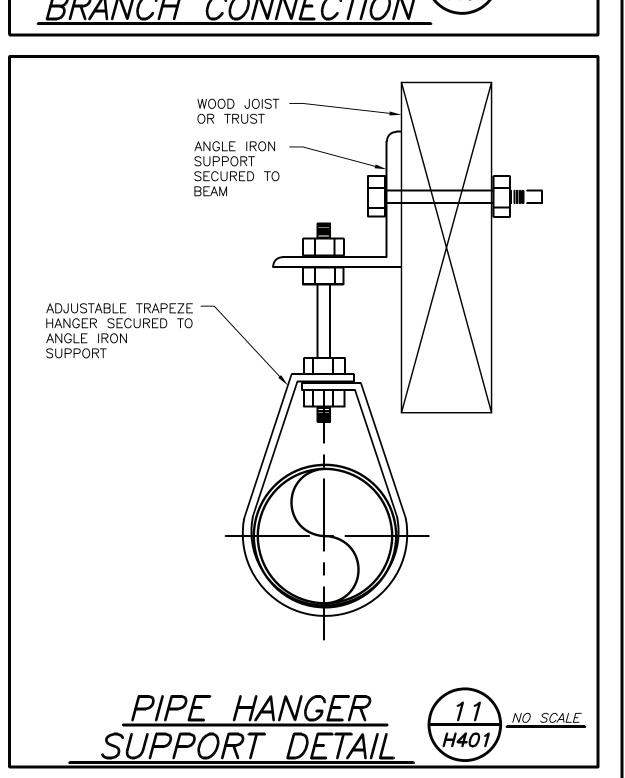
INTAKE DUCT PIPED UP TO ROOF

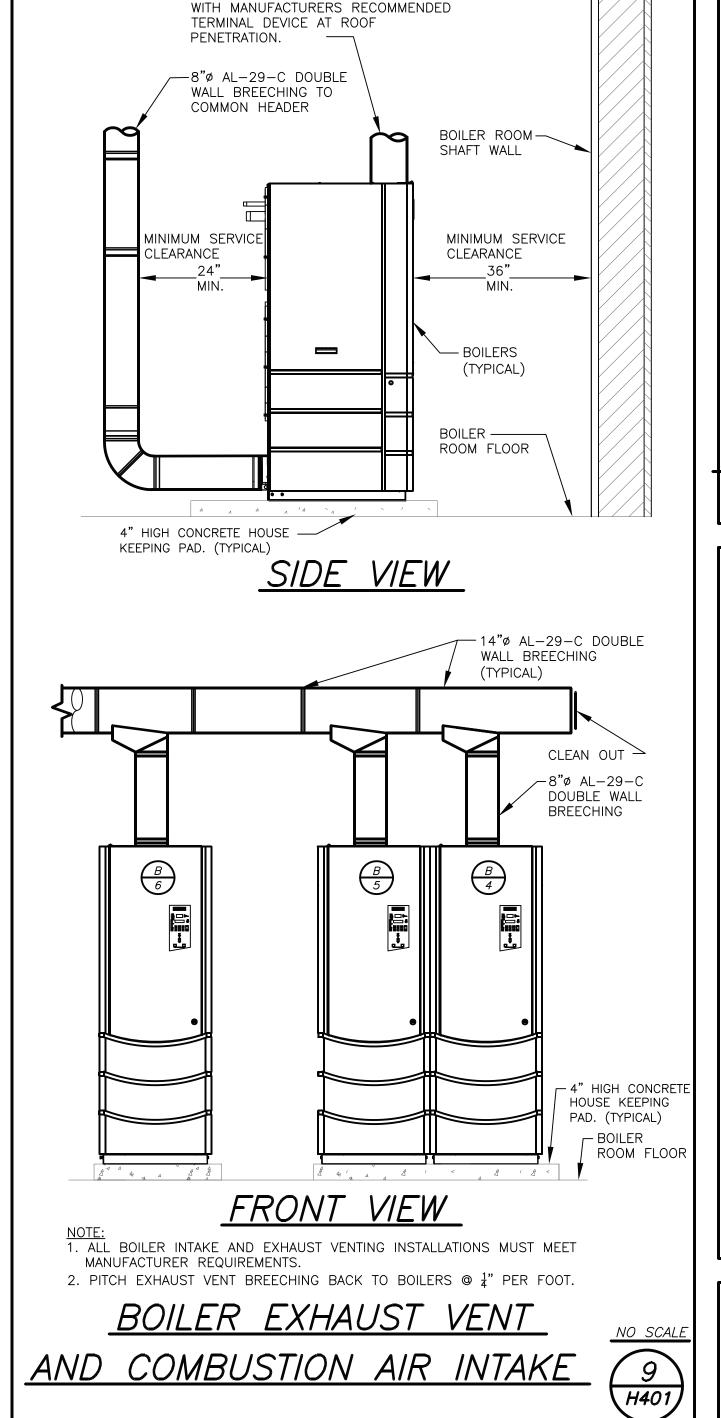


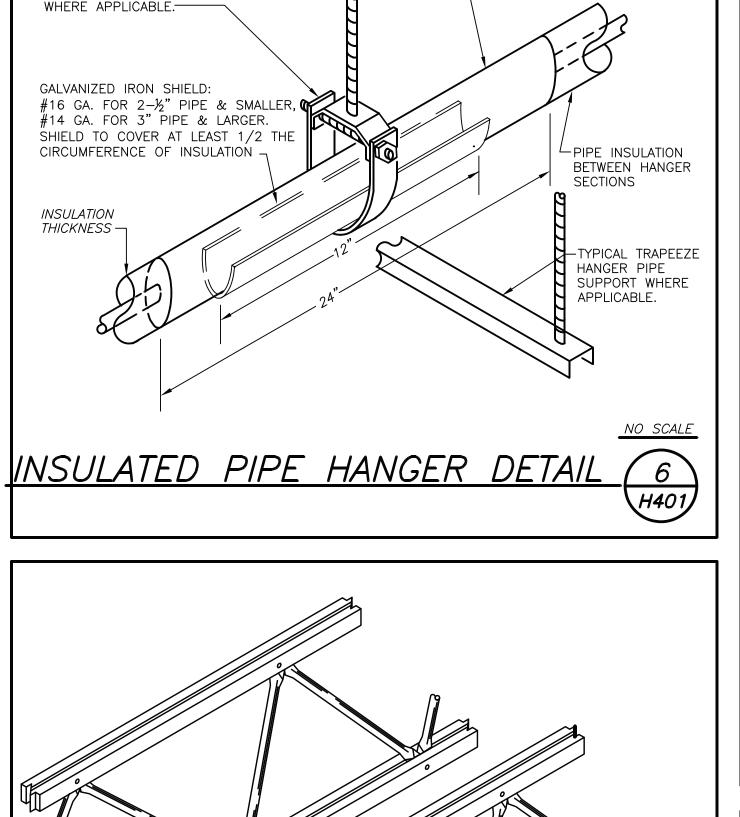












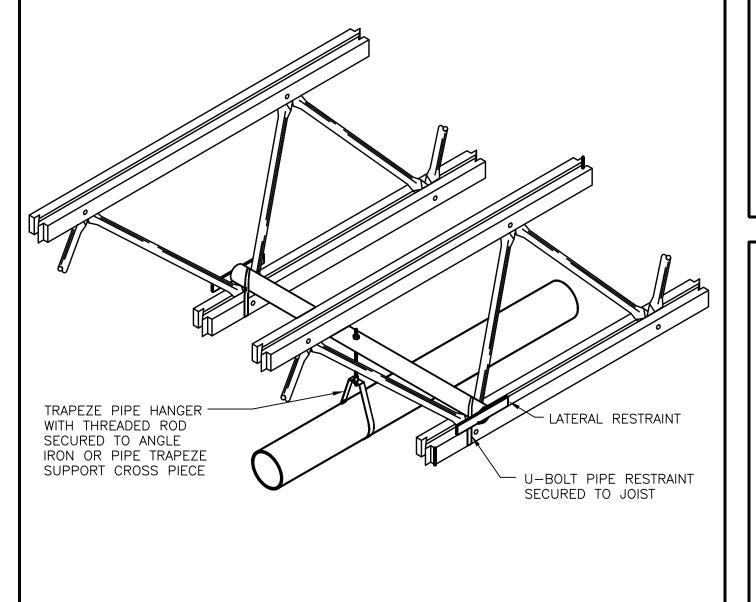
TYPICAL CLEVIS PIPE

HANGER SUPPORT

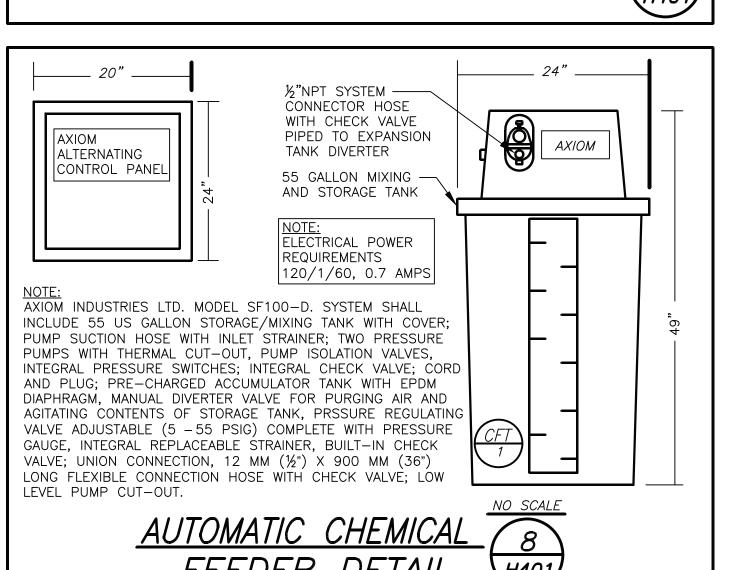
- RIGID PIPE INSULATION

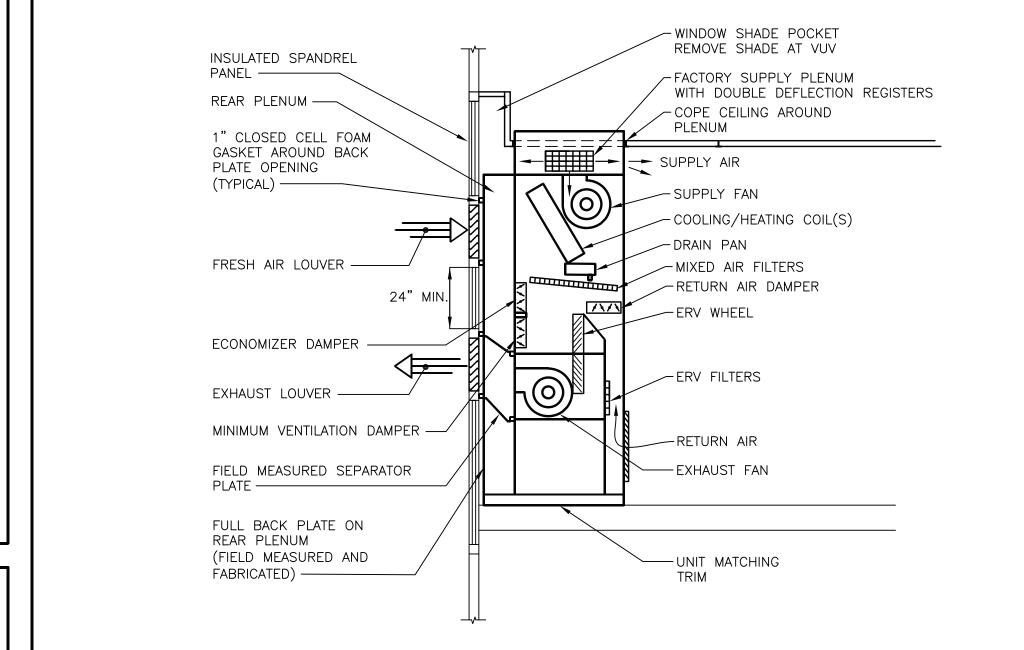
ADJACENT INSULATION

COVER & FINISH TO MATCH

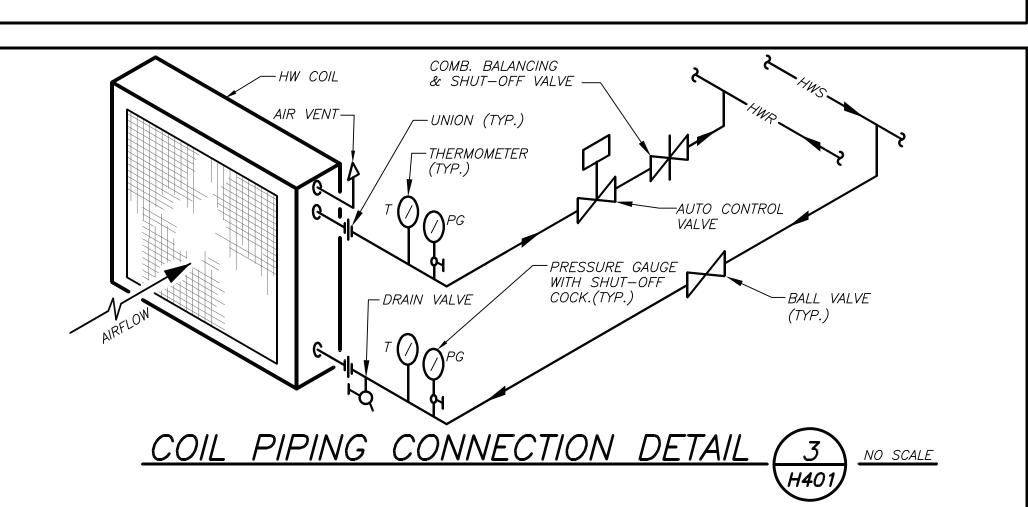


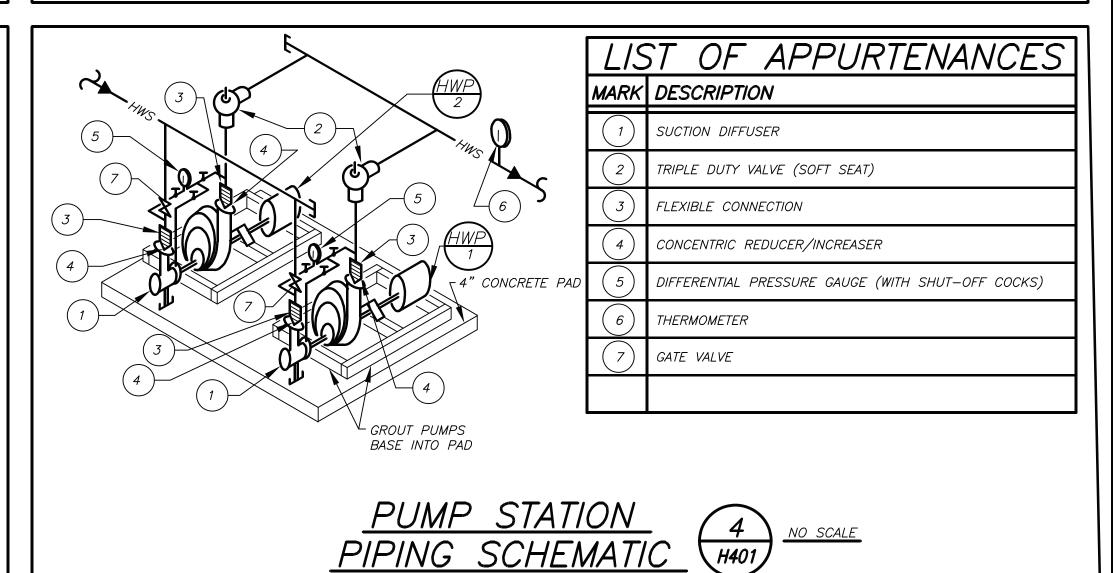


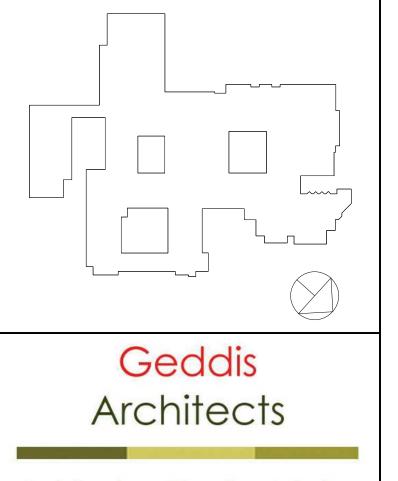












Revision Schedule

Description

**SED Submission** 

SED Submission

ISSUED FOR BID

Addendum#1

Date

09/15/2020

01/08/2021

01/19/2021

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Albany, NY 12205

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Acoustic Consultant
DP DESIGN
12 Cold Spring Street Providence, RI

401-861-3218

518-463-4400

### SED #: 6618-0001-0005-032

PROJECT

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

Rye High School & Middle School

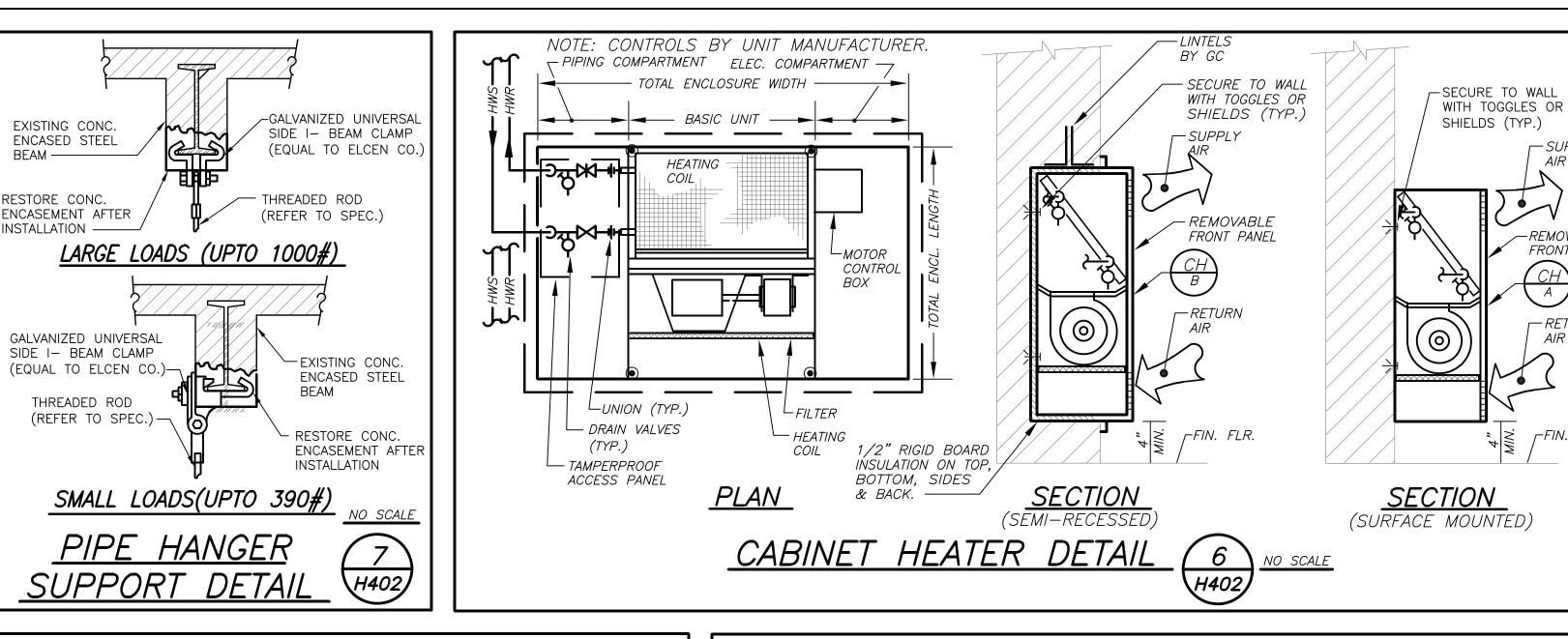
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL dETAILS

SEAL & SIGNATURE | DATE: PROJECT No: 9200 DRAWING BY: BGA CHK BY: BGA DWG No:

H2-401

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



NOTE:
HVAC CONTRACTOR TO PROVIDE FACTORY

LOCAL DISCONNECT.

FULL SIZE FAN PLENUM -

OPENING THRU WALL BY

WALL FRAMING. ———

EXHAUST DUCT (WITH

DIELECTRIC GASKET) -

SOLDER ALL JOINTS WATERTIGHT

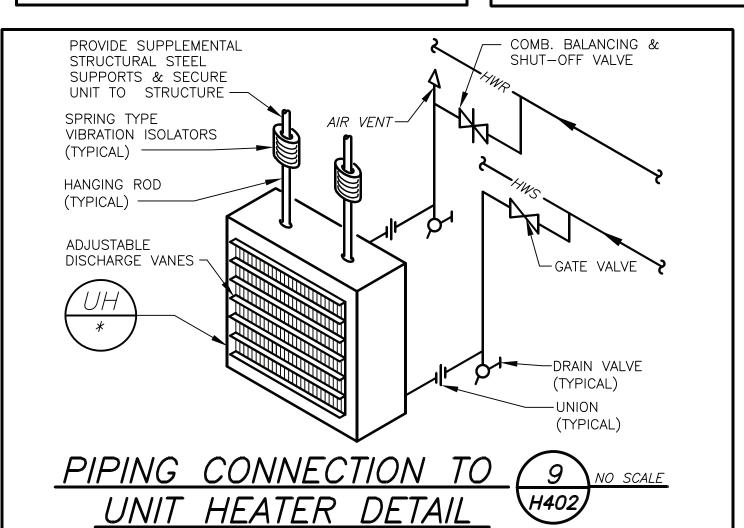
SEAL WALL OPENING

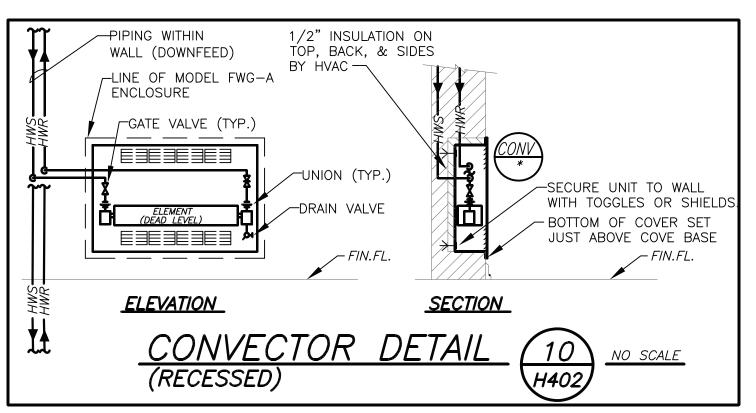
AROUND PLENUM IN

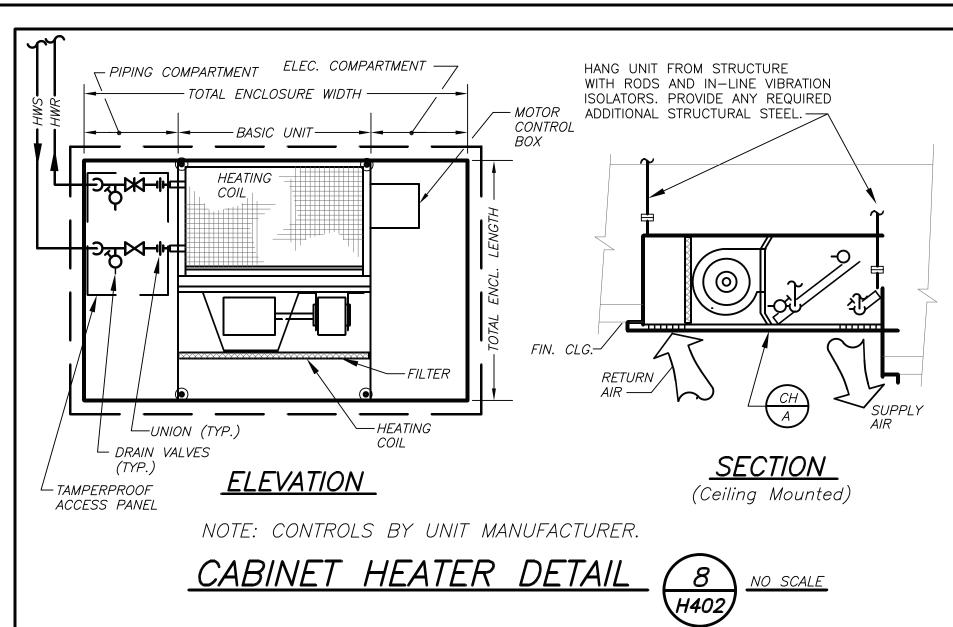
AN APPROVED MANNER —

HVAC CONTRACTOR. PROVIDE

ANY REQUIRED ADDITIONAL







FAN MOUNTING BRACKET SECURED TO WALL

FAN SECURED TO

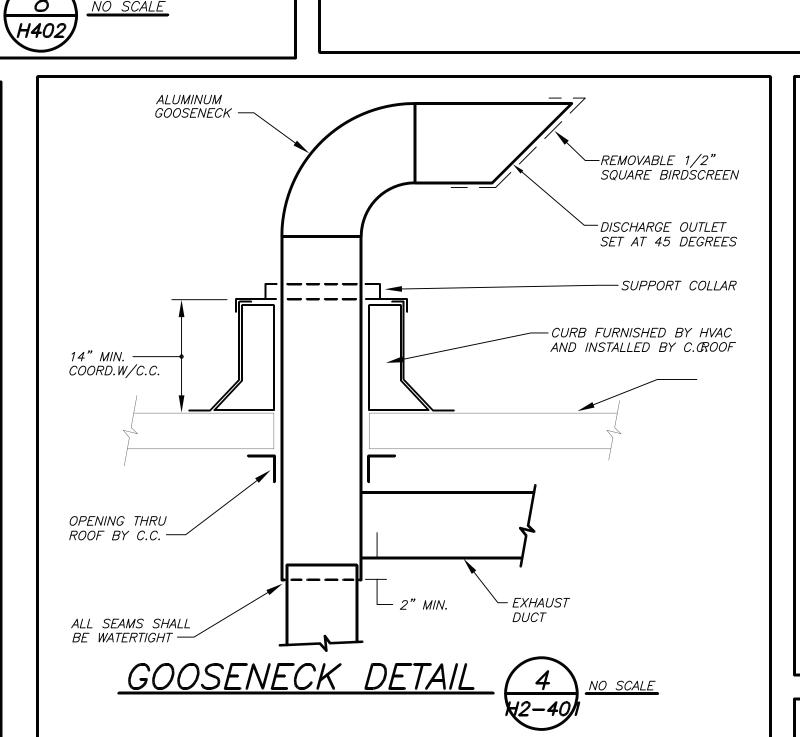
- BIRDSCREEN

FAN CANOPY

—BACKDRAFT DAMPER MTD. TO PLENUM

MOUNTING BRACKET

W/APPROVED SEALANT



MANUAL AIR VENT

-PROVIDE LOCKABLE

ACCESS IN COVER

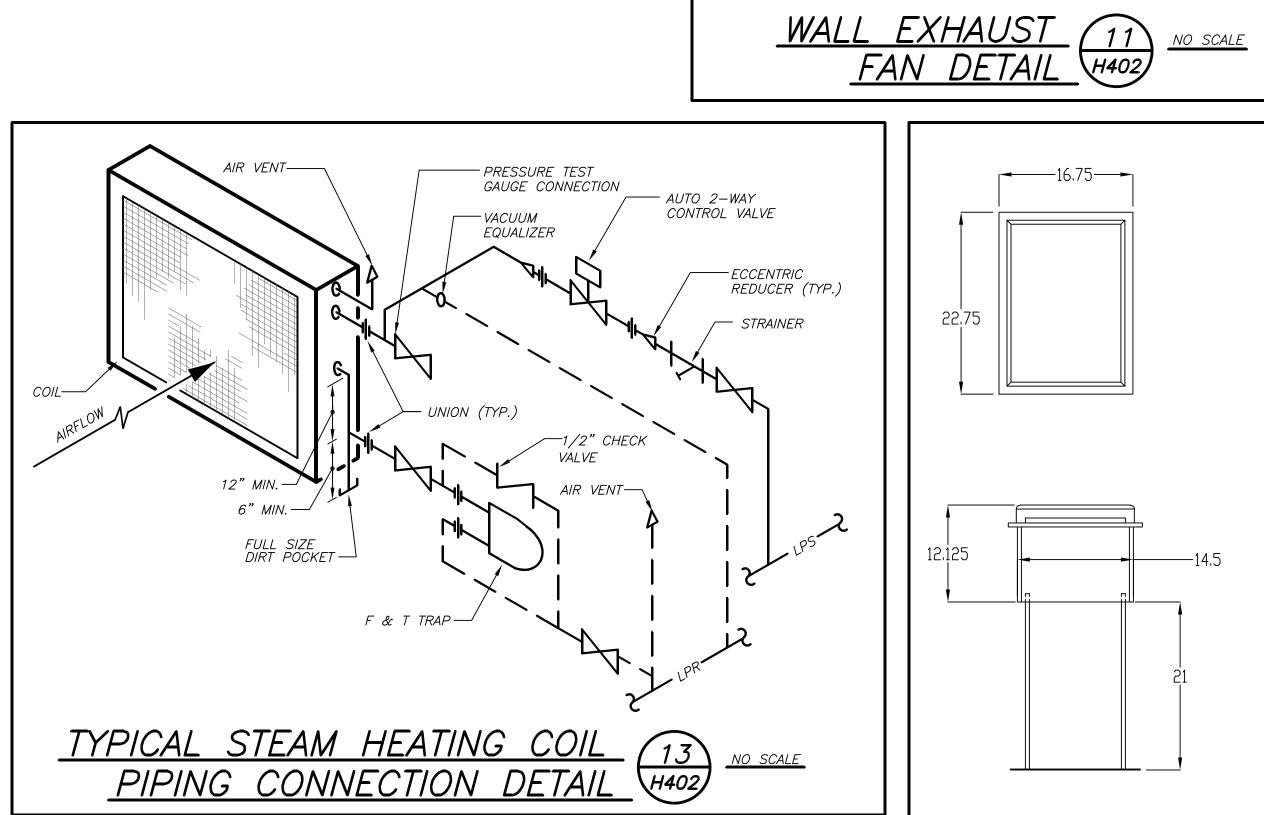
WITHIN ENCL.

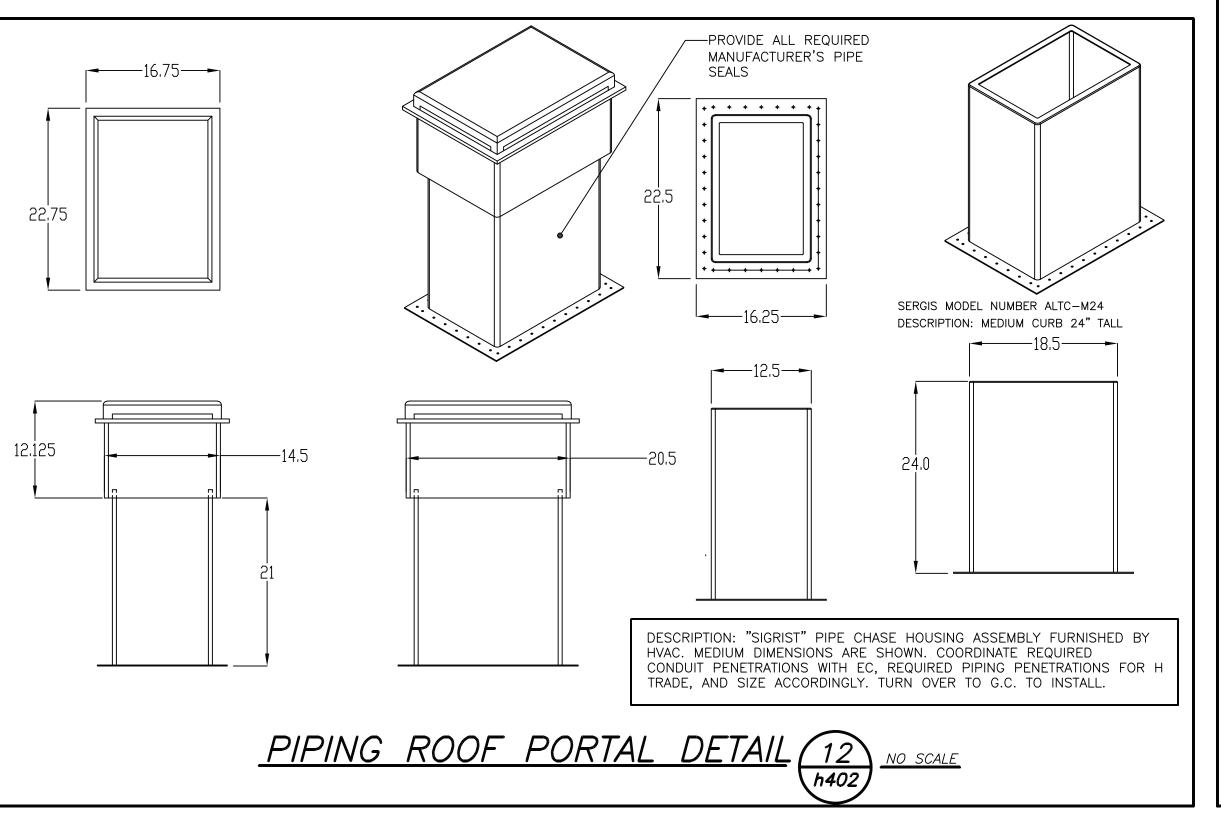
SCHEMATIC ELEVATION

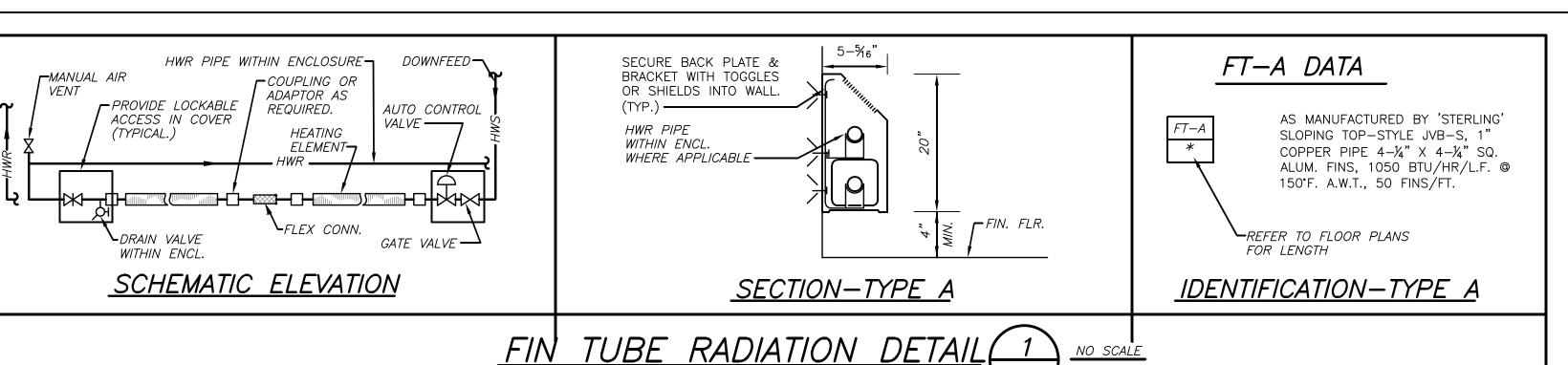
(TYPICAL.)

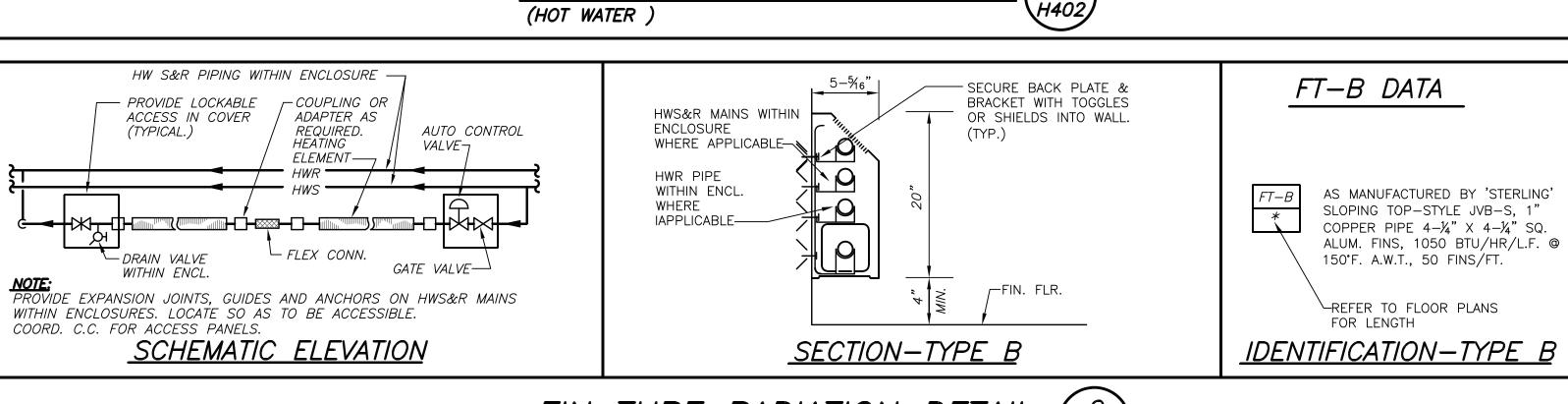
*—REMOVABLE* 

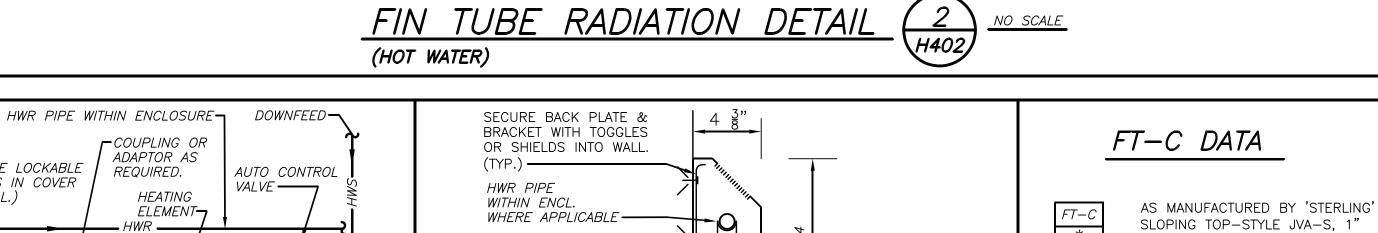
FRONT PANEL

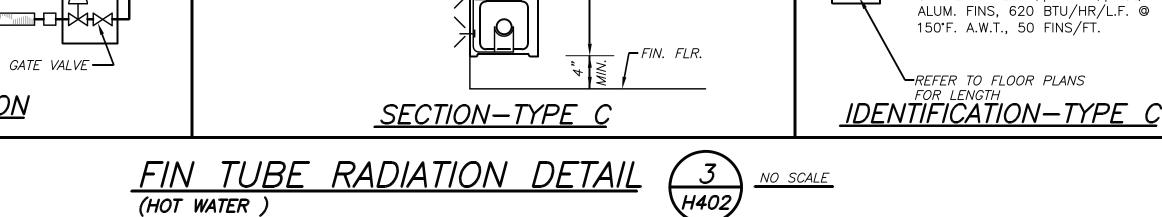


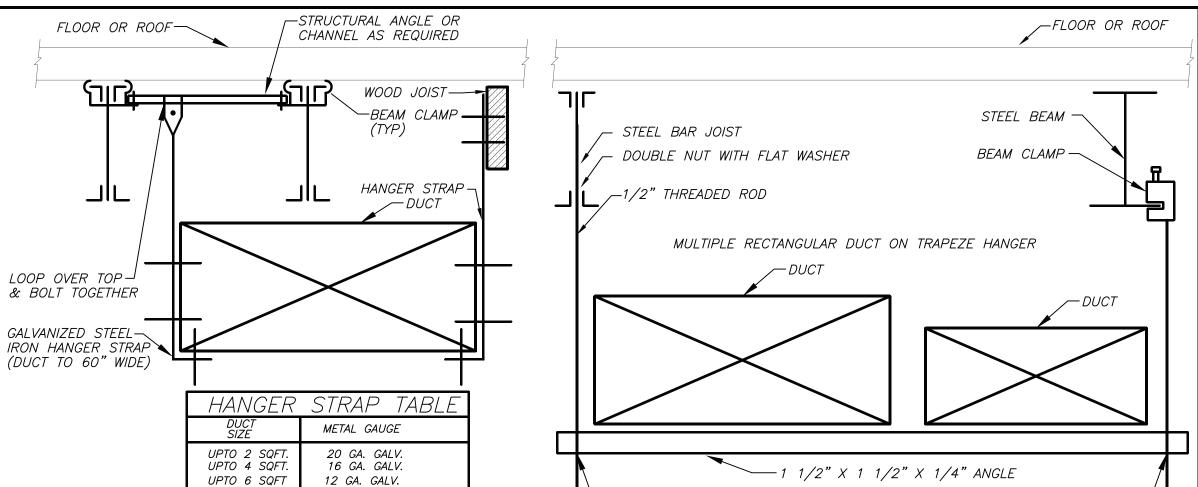




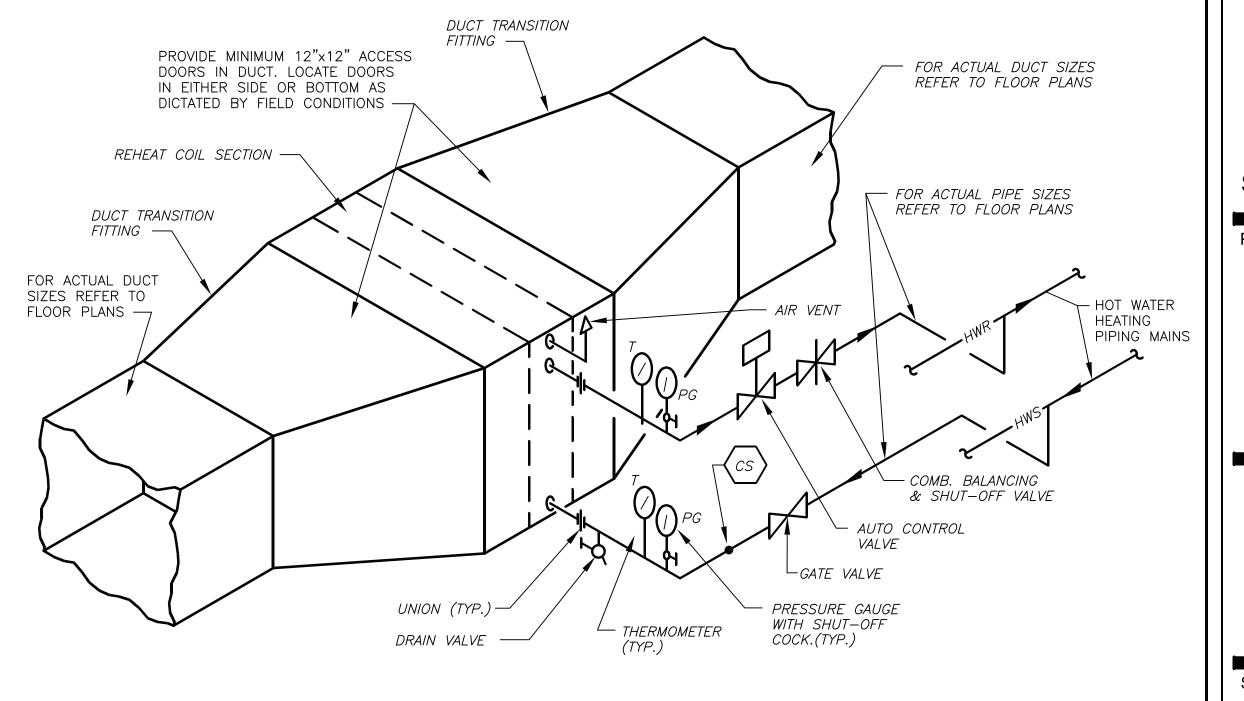












TYPICAL DUCT MOUNTED REHEAT

COIL PIPING CONNECTION DETAIL

5

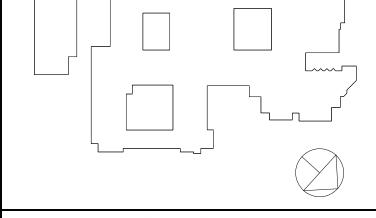
H402

NO SCALE

COPPER PIPE 3-1/4" X 3-1/4" SQ. ALUM. FINS, 620 BTU/HR/L.F. @

150°F. A.W.T., 50 FINS/FT.

REFER TO FLOOR PLANS



Revision Schedule

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**SED Submission** 

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> Acoustic Consultant DP DESIGN 12 Cold Spring Street Providence, RI

> > 401-861-3218

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

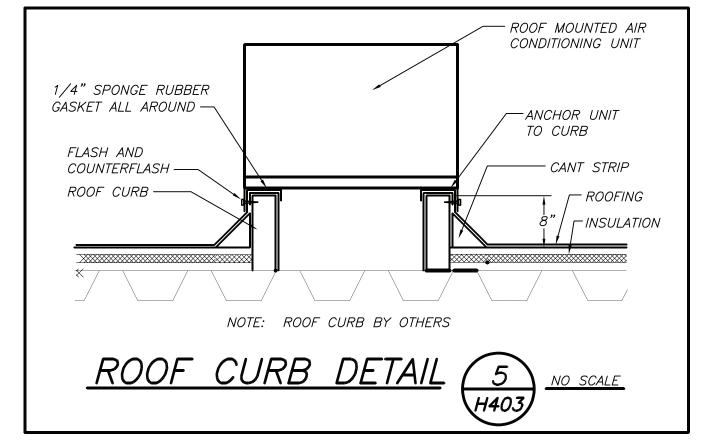
HIGH SCHOOL & MIDDLE SCHOOL **DETAILS** 

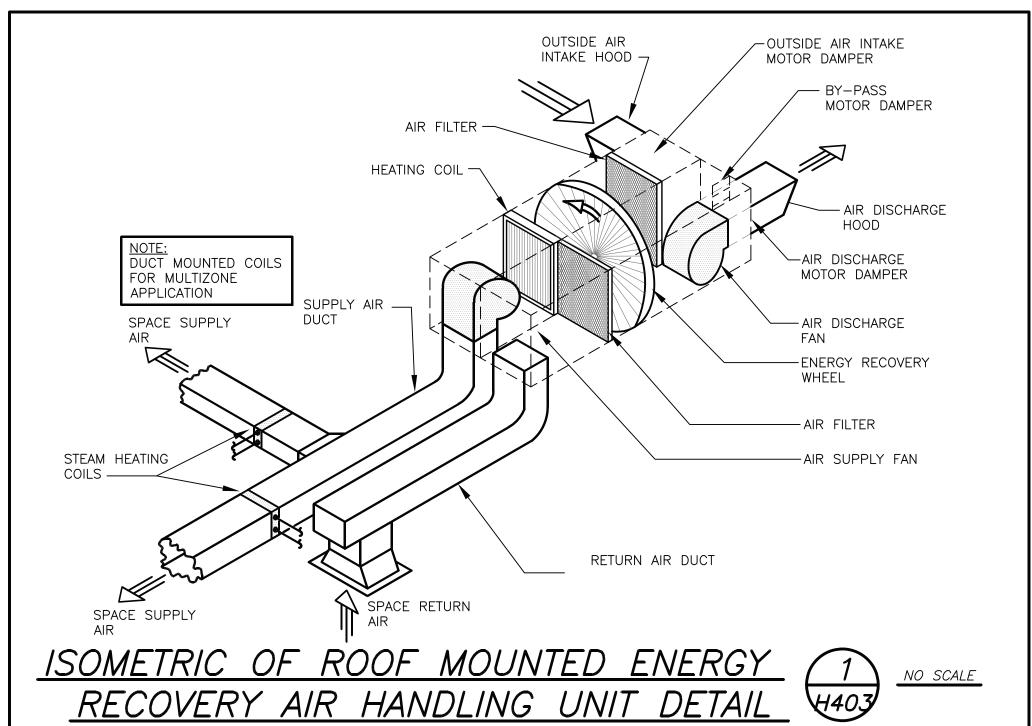
SEAL & SIGNATURE | DATE: PROJECT No: 9200 DRAWING BY: BGA BGA CHK BY: DWG No:

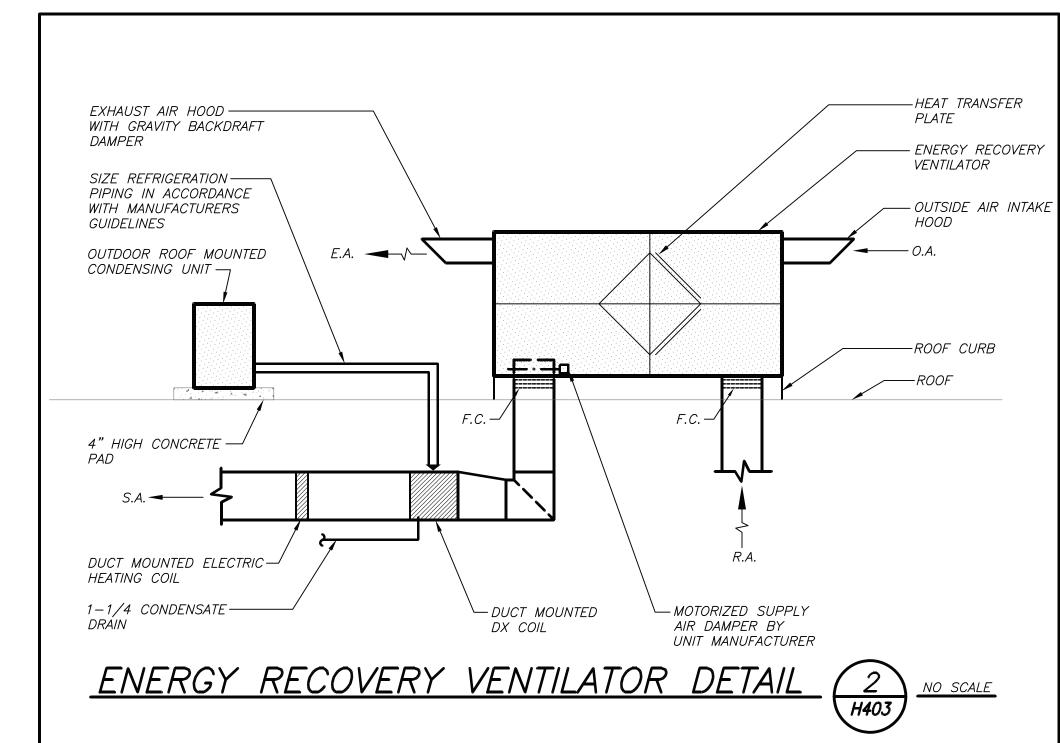
H2-402

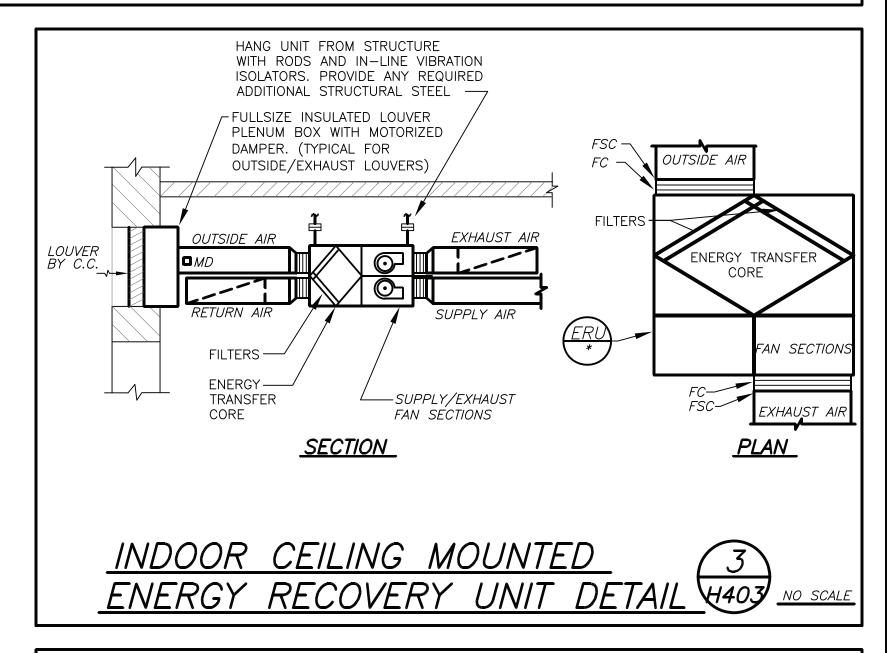
OF ALL OTHER CONTRACTORS DBE: TAB: Layout1 - Y:\RYE CITY SD\Rye CSD - 2019 Bond - Phase 2 (1937.00)\Drawings\HVAC\a193700H-402-MHS.dwg - DATE: Jan 15, 2021 - 3:23pm

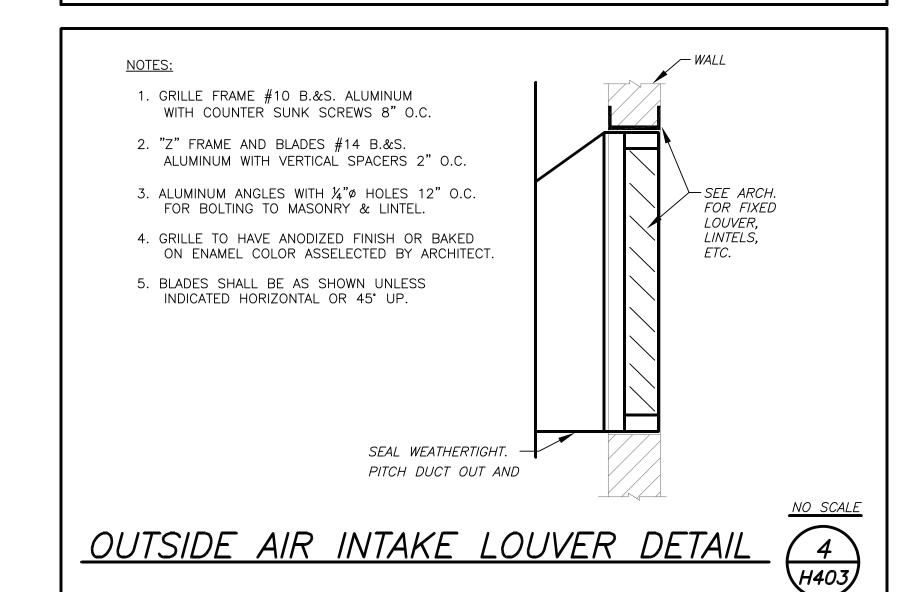
BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK

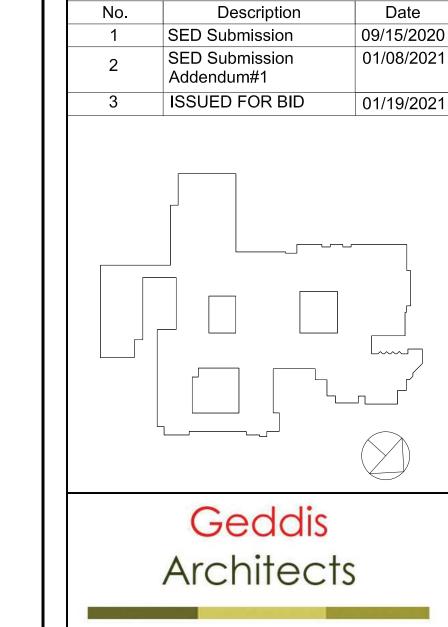












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HIGH SCHOOL & MIDDLE SCHOOL **DETAILS** 

SEAL & SIGNATURE DATE: PROJECT No: 9200 DRAWING BY: BGA CHK BY: BGA DWG No:

H2-403

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DBE: TAB: Layout1 - Y:\RYE CITY SD\Rye CSD - 2019 Bond - Phase 2 (1937.00)\Drawings\HVAC\a193700H-403-MHS.dwg - DATE: Jan 15, 2021 - 3:23pm