

BID PROJECTS

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

ALTERNATE 1A: NEW CEILING & LIGHTING TO GO WITH HVAC WORK

ALTERNATE 1B: GREY BOX COMPLETE RENOVATION

ALTERNATE 1C: CEILING AND LIGHTING IN CLASSROOMS

ALTERNATE 1D: CAFETERIA HVAC

PROJECT 2: LIBRARY RENOVATION

ALTERNATE 2A: TELECOIL HEARING LOOP FOR LIBRARY

ALTERNATE 2B: KIVA TIERED SEATING FOR LIBRARY

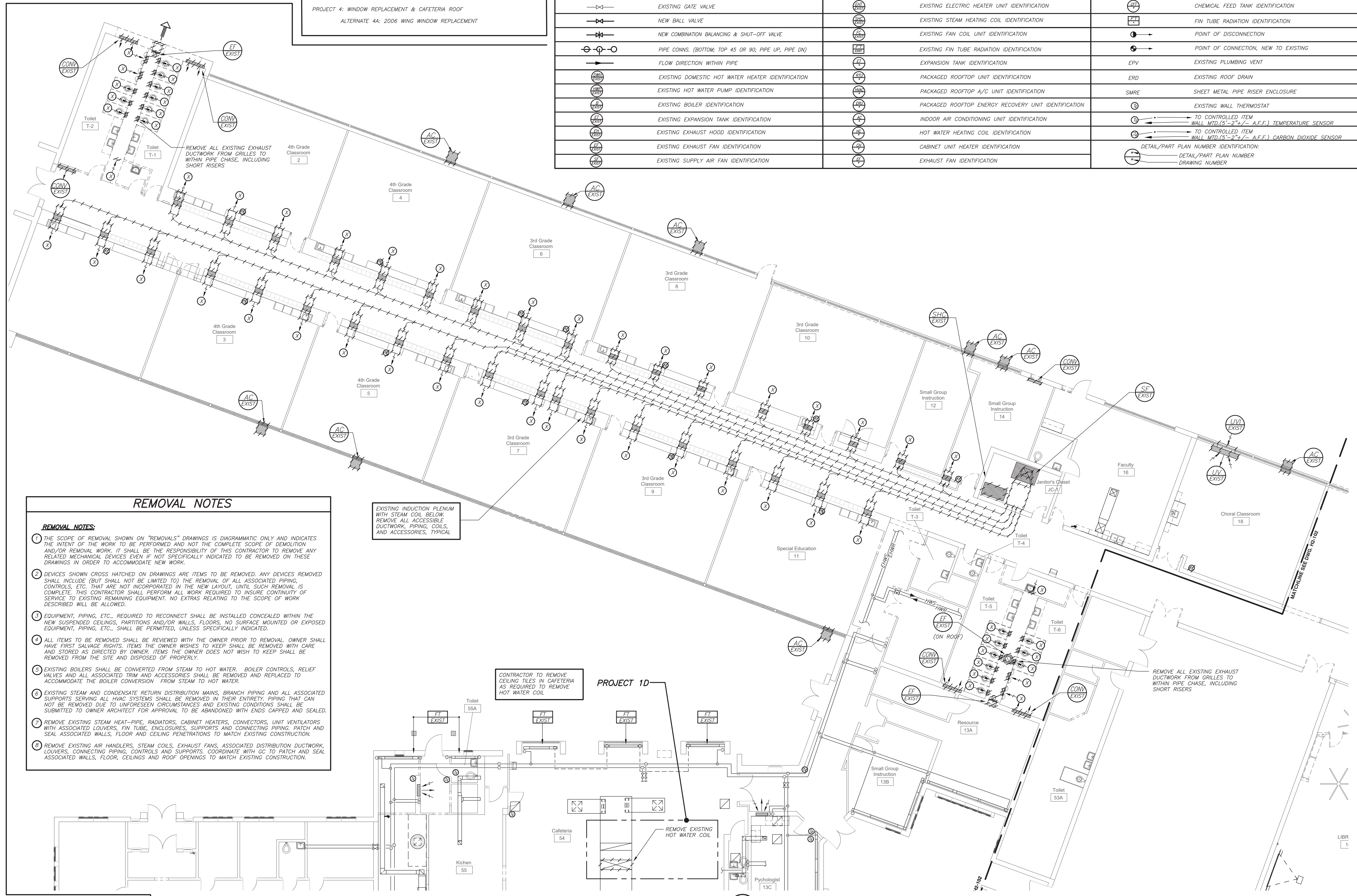
ALTERNATE 2C: ACOUSTIC CEILING BAFFLES FOR LIBRARY

PROJECT 3: NOT USED

PROJECT 4: WINDOW REPLACEMENT & CAFETERIA ROOF

ALTERNATE 4A: 2006 WING WINDOW REPLACEMENT

LEGEND			
-----	EXISTING PIPING, EQUIPMENT, ETC. TO BE REMOVED	⊙	EXISTING AIR CONDITIONER IDENTIFICATION
-----	EXISTING PIPING, EQUIPMENT, ETC.	⊙	EXISTING GRAVITY VENT IDENTIFICATION
-----	NEW PIPING, EQUIPMENT, ETC.	⊙	EXISTING CONVECTOR IDENTIFICATION
-----	EXISTING HOT WATER SUPPLY PIPING	⊙	EXISTING AIR HANDLING UNIT IDENTIFICATION
-----	EXISTING HOT WATER RETURN PIPING	⊙	EXISTING UNIT VENTILATOR IDENTIFICATION
-----	EXISTING EXPANSION TANK PIPING	⊙	EXISTING CABINET HEATER IDENTIFICATION
-----	NEW EXPANSION TANK PIPING	⊙	EXISTING DUCTLESS SPLIT AIR HANDLER IDENTIFICATION
-----	EXISTING NATURAL GAS PIPING	⊙	EXISTING CONDENSING UNIT IDENTIFICATION
-----	NEW NATURAL GAS PIPING	⊙	EXISTING PACKAGED ROOFTOP UNIT IDENTIFICATION
⊕	EXISTING GATE VALVE	⊙	EXISTING ELECTRIC HEATER UNIT IDENTIFICATION
⊕	NEW BALL VALVE	⊙	EXISTING STEAM HEATING COIL IDENTIFICATION
⊕	NEW COMBINATION BALANCING & SHUT-OFF VALVE	⊙	EXISTING FAN COIL UNIT IDENTIFICATION
⊕	PIPE CONNS. (BOTTOM, TOP 45 OR 90; PIPE UP, PIPE DN)	⊙	EXISTING FIN TUBE RADIATION IDENTIFICATION
→	FLOW DIRECTION WITHIN PIPE	⊙	EXPANSION TANK IDENTIFICATION
⊙	EXISTING DOMESTIC HOT WATER HEATER IDENTIFICATION	⊙	PACKAGED ROOFTOP UNIT IDENTIFICATION
⊙	EXISTING HOT WATER PUMP IDENTIFICATION	⊙	PACKAGED ROOFTOP A/C UNIT IDENTIFICATION
⊙	EXISTING BOILER IDENTIFICATION	⊙	PACKAGED ROOFTOP ENERGY RECOVERY UNIT IDENTIFICATION
⊙	EXISTING EXPANSION TANK IDENTIFICATION	⊙	INDOOR AIR CONDITIONING UNIT IDENTIFICATION
⊙	EXISTING EXHAUST HOOD IDENTIFICATION	⊙	HOT WATER HEATING COIL IDENTIFICATION
⊙	EXISTING EXHAUST FAN IDENTIFICATION	⊙	CABINET UNIT HEATER IDENTIFICATION
⊙	EXISTING SUPPLY AIR FAN IDENTIFICATION	⊙	EXHAUST FAN IDENTIFICATION
⊙		⊙	CONDENSING UNIT IDENTIFICATION
⊙		⊙	HOT WATER BOILER IDENTIFICATION
⊙		⊙	HOT WATER CIRCULATOR PUMP IDENTIFICATION
⊙		⊙	VRF ENERGY RECOVERY OUTDOOR UNIT IDENTIFICATION
⊙		⊙	DIRECT EXP. VRF COOLING/HEATING COIL IDENTIFICATION
⊙		⊙	WINDOW AIR CONDITIONING UNIT IDENTIFICATION
⊙		⊙	CONVECTOR IDENTIFICATION
⊙		⊙	UNIT VENTILATOR (W/ AIR CONDITIONING) IDENTIFICATION
⊙		⊙	OUTDOOR AIR INTAKE HOOD IDENTIFICATION
⊙		⊙	CHEMICAL FEED TANK IDENTIFICATION
⊙		⊙	FIN TUBE RADIATION IDENTIFICATION
⊙		⊙	POINT OF DISCONNECTION
⊙		⊙	POINT OF CONNECTION, NEW TO EXISTING
⊙		⊙	EXPANSION PLUMBING VENT
⊙		⊙	EXISTING ROOF DRAIN
⊙		⊙	SMPRE SHEET METAL PIPE RISER ENCLOSURE
⊙		⊙	EXISTING WALL THERMOSTAT
⊙		⊙	TO CONTROLLED ITEM WALL MTD.(5'-2" +/- A.F.F.) TEMPERATURE SENSOR
⊙		⊙	TO CONTROLLED ITEM WALL MTD.(5'-2" +/- A.F.F.) CARBON DIOXIDE SENSOR
⊙		⊙	DETAIL/PART PLAN NUMBER IDENTIFICATION:
⊙		⊙	DETAIL/PART PLAN NUMBER
⊙		⊙	DRAWING NUMBER



REMOVAL NOTES

REMOVAL NOTES:

- 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.
- 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.
- 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.
- 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.
- EXISTING BOILERS SHALL BE CONVERTED FROM STEAM TO HOT WATER. BOILER CONTROLS, RELIEF VALVES AND ALL ASSOCIATED TRIM AND ACCESSORIES SHALL BE REMOVED AND REPLACED TO ACCOMMODATE THE BOILER CONVERSION FROM STEAM TO HOT WATER.
- EXISTING STEAM AND CONDENSATE RETURN DISTRIBUTION MAINS, BRANCH PIPING AND ALL ASSOCIATED SUPPORTS SERVING ALL HVAC SYSTEMS SHALL BE REMOVED IN THEIR ENTIRETY. PIPING THAT CAN NOT BE REMOVED DUE TO UNFORESEEN CIRCUMSTANCES AS EXISTING CONDITIONS SHALL BE SUBMITTED TO OWNER ARCHITECT FOR APPROVAL TO BE ABANDONED WITH ENDS CARPED AND SEALED.
- REMOVE EXISTING STEAM HEAT-PIPE, RADIATORS, CABINET HEATERS, CONVECTORS, UNIT VENTILATORS WITH ASSOCIATED LOUVERS, FIN TUBE, ENCLOSURES, SUPPORTS AND CONNECTING PIPING. PATCH AND SEAL ASSOCIATED WALLS, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING CONSTRUCTION.
- REMOVE EXISTING AIR HANDLERS, STEAM COILS, EXHAUST FANS, ASSOCIATED DISTRIBUTION DUCTWORK, LOUVERS, CONNECTING PIPING, CONTROLS AND SUPPORTS. COORDINATE WITH GC TO PATCH AND SEAL ASSOCIATED WALLS, CEILINGS AND ROOF OPENINGS TO MATCH EXISTING CONSTRUCTION.

EXISTING INDUCTION PLENUM WITH STEAM COIL BELOW. REMOVE ALL ACCESSIBLE DUCTWORK, PIPING, COILS, AND ACCESSORIES, TYPICAL

CONTRACTOR TO REMOVE CEILING TILES IN CAFETERIA AS REQUIRED TO REMOVE HOT WATER COIL

REMOVE ALL EXISTING EXHAUST DUCTWORK FROM GRILLES TO WITHIN PIPE CHASE, INCLUDING SHORT RISERS

PART FIRST FLOOR PLAN (REMOVALS) (PROJECT 1, 1D)

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

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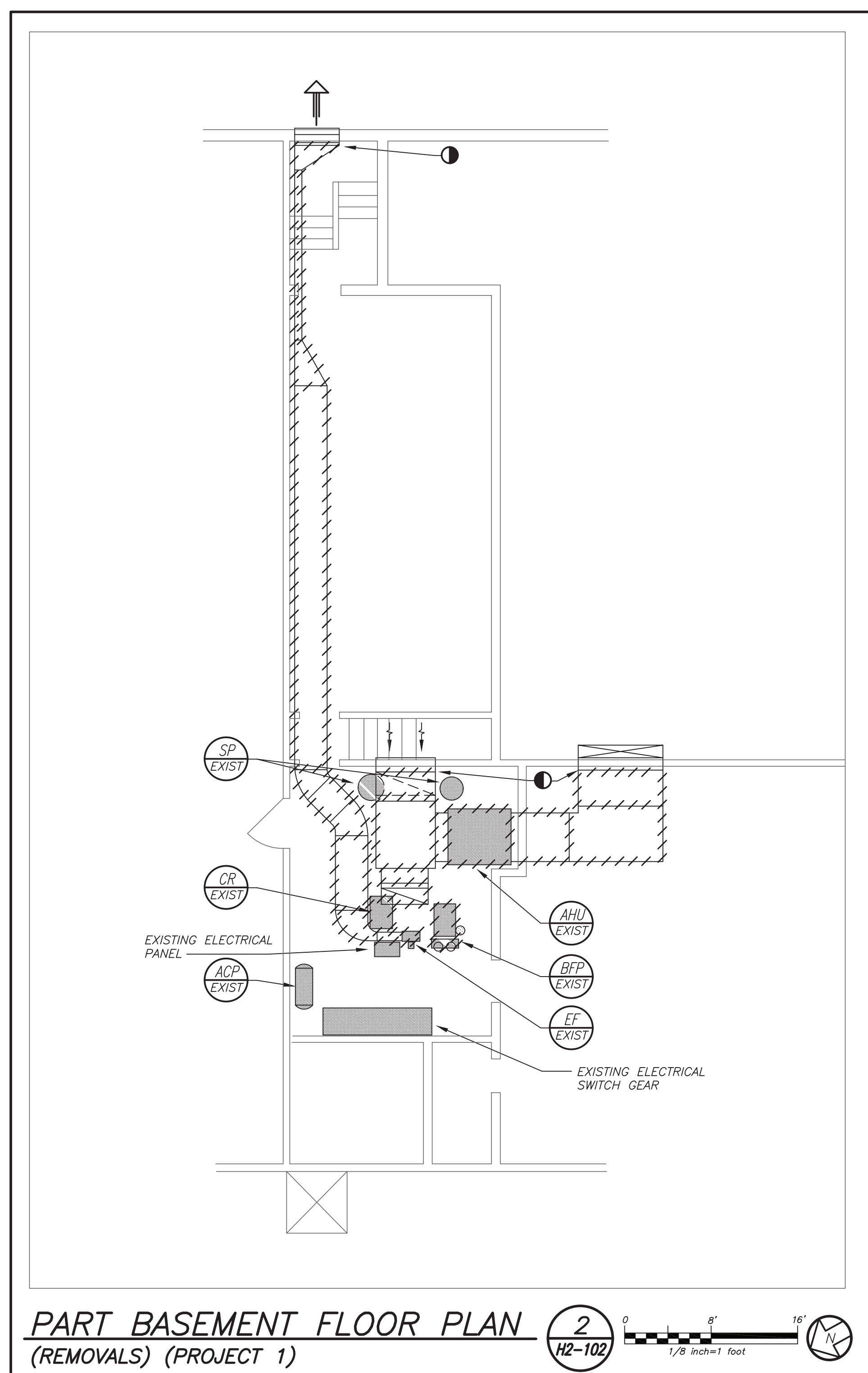
SED#: 6618-0001-0003-025

PROJECT
Rye City Schools
555 Theodore Fremd Ave, Suite B-101
Midland Elementary School
312 Midland Ave, Rye NY 10580

LEGEND, PARTIAL FIRST FLOOR PLAN, REMOVAL NOTES (REMOVALS)

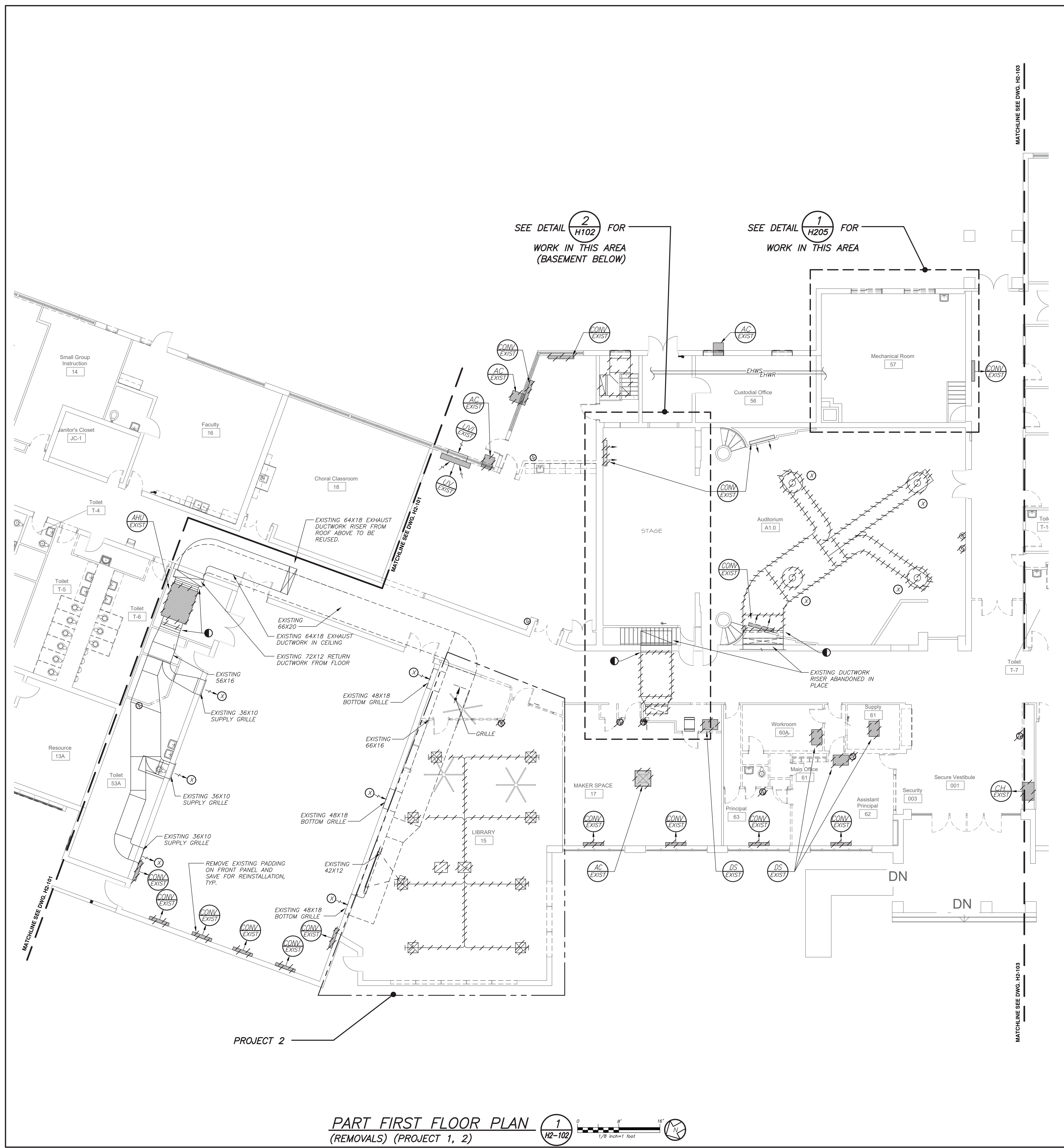
PROJECT 1, 1D

SEAL & SIGNATURE: _____ DATE: 12/18/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: H2-101



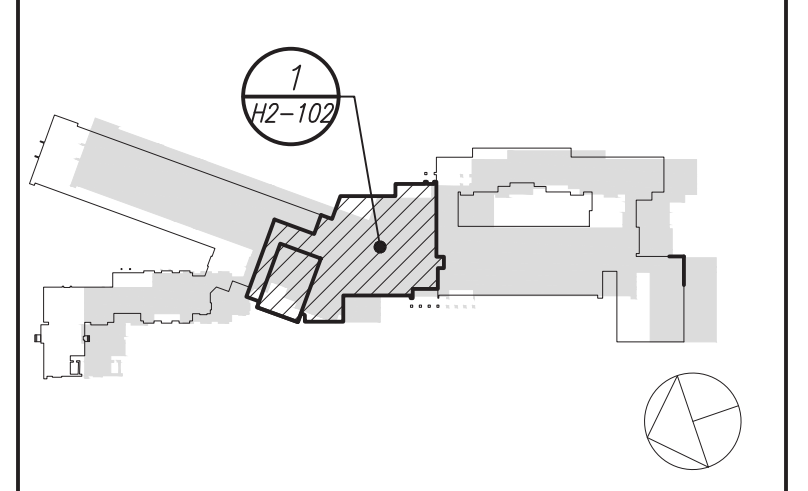
PART BASEMENT FLOOR PLAN (REMOVALS) (PROJECT 1)

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PART FIRST FLOOR PLAN (REMOVALS) (PROJECT 1, 2)

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SED#: 6618-0001-0003-025

PROJECT

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Midland Elementary School
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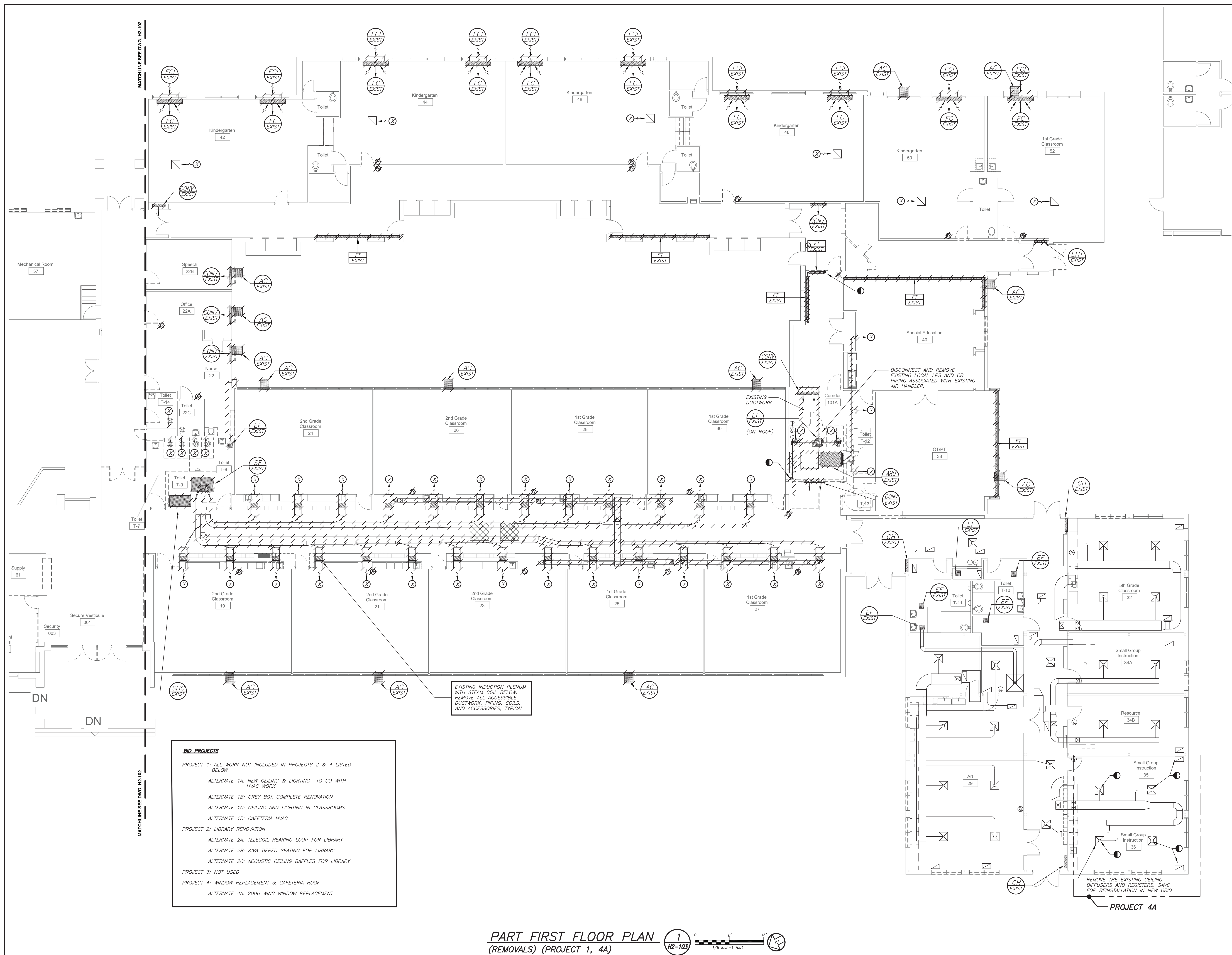
PARTIAL FIRST FLOOR PLAN (REMOVALS)

PROJECT 1, 2

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

DBE: TAB: Layout1 - Y:\RYE CITY SD\Rye CSD - 2019 Bond - Phase 2 (1937.00)\Drawings\HVAC\b193700H-102-MDES.dwg - DATE: Jan 15, 2021 - 4:44pm



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ALTERNATE 4A: 2006 WING WINDOW REPLACEMENT

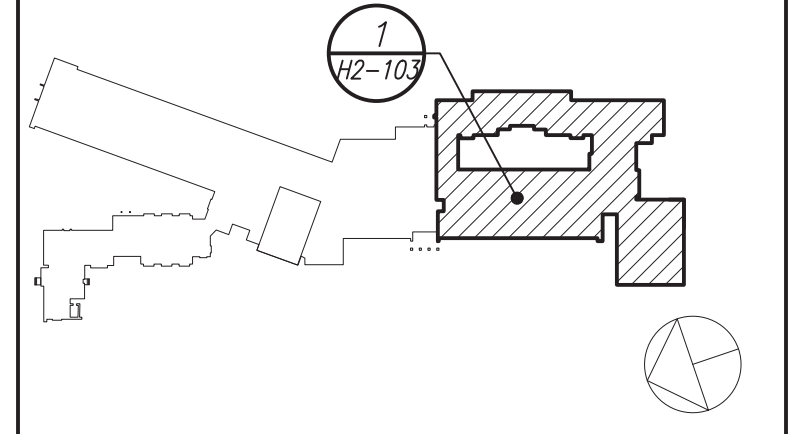
PART FIRST FLOOR PLAN
(REMOVALS) (PROJECT 1, 4A)

1
 HZ-103

0 6' 12'
 1/8" = 1' - 0"

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SED#: 6618-0001-0003-025

PROJECT

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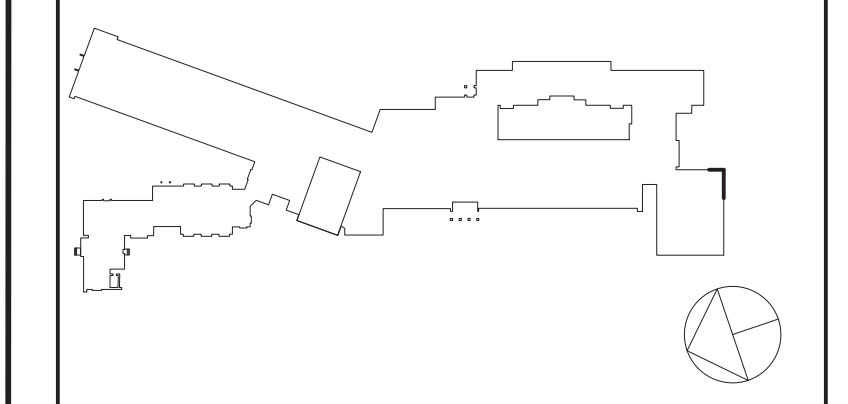
312 Midland Ave, Rye NY 10580

PARTIAL FIRST FLOOR PLAN (REMOVALS)

PROJECT 1, 4A

SEAL & SIGNATURE	DATE:	12/18/19
	PROJECT No.:	9200
	DRAWING BY:	BGA
	CHK BY:	BGA
	DWG No.:	H2-103

Revision Schedule		
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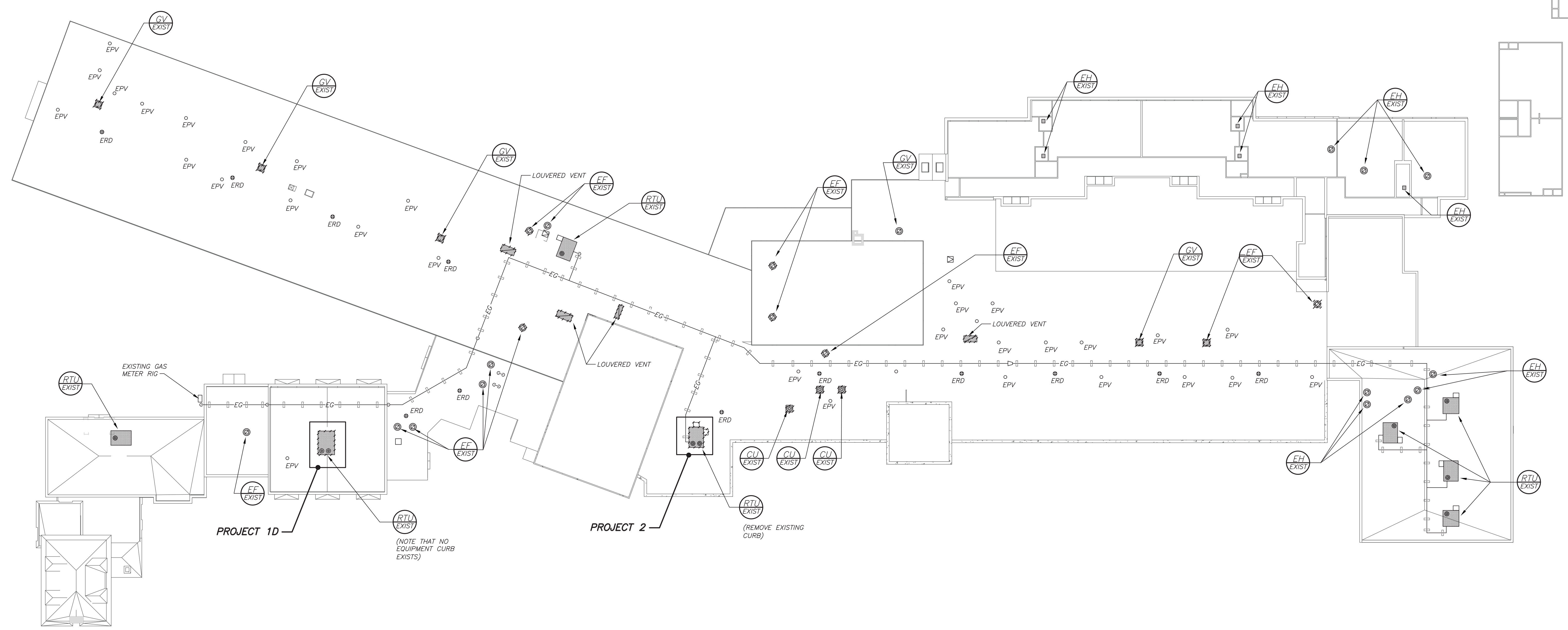
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ROOF PLAN (REMOVALS)
 PROJECT 1, 1D, 2

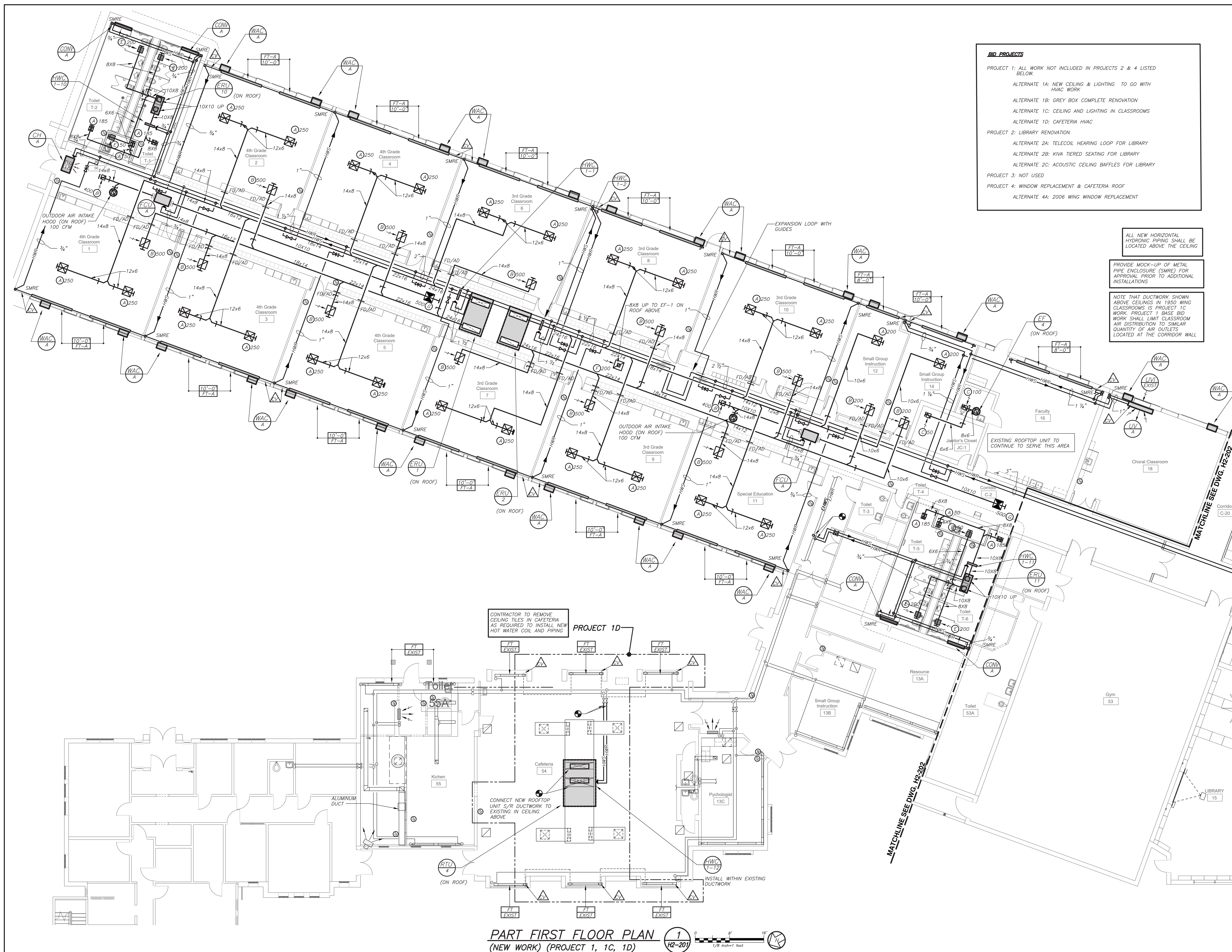
SEAL & SIGNATURE | DATE: 12/18/19
 PROJECT No: 9200
 DRAWING BY: BGA
 CHK BY: BGA
 DWG No: H2-104



ROOF PLAN (1) (REMOVALS) (PROJECT 1, 1D, 2) H2-104
 Scale: 1 inch = 20 feet

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ALL NEW HORIZONTAL HYDRONIC PIPING SHALL BE LOCATED ABOVE THE CEILING

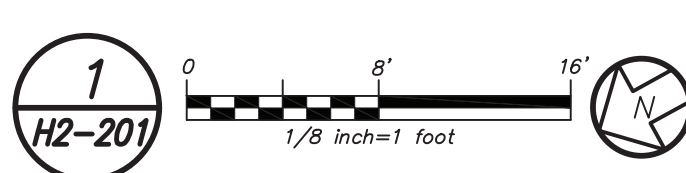
PROVIDE MOCK-UP OF METAL PIPE ENCLOSURE (SMRE) FOR APPROVAL PRIOR TO ADDITIONAL INSTALLATIONS

NOTE THAT DUCTWORK SHOWN ABOVE CEILINGS IN 1950 WING CLASSROOMS IS PROJECT 1C WORK. PROJECT 1C BASE BID WORK SHALL LIMIT CLASSROOM AIR DISTRIBUTION TO SIMILAR QUANTITY OF AIR OUTLETS LOCATED AT THE CORRIDOR WALL

CONTRACTOR TO REMOVE CEILING TILES IN CAFETERIA AS REQUIRED TO INSTALL NEW HOT WATER COIL AND PIPING

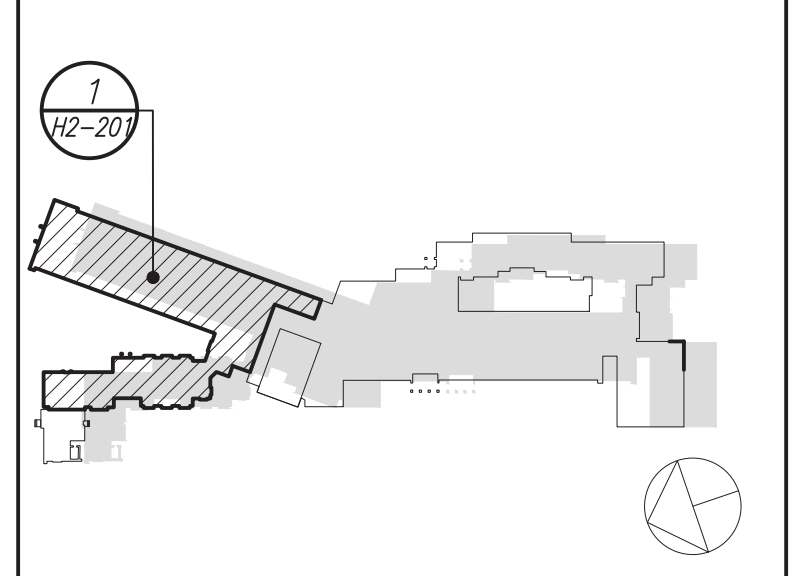
CONNECT NEW ROOFTOP UNIT 5/8" DUCTWORK TO EXISTING IN CEILING ABOVE

PART FIRST FLOOR PLAN
(NEW WORK) (PROJECT 1, 1C, 1D)



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PARTIAL FIRST FLOOR PLAN

PROJECT 1, 1C, 1D

SEAL & SIGNATURE: [Signature]

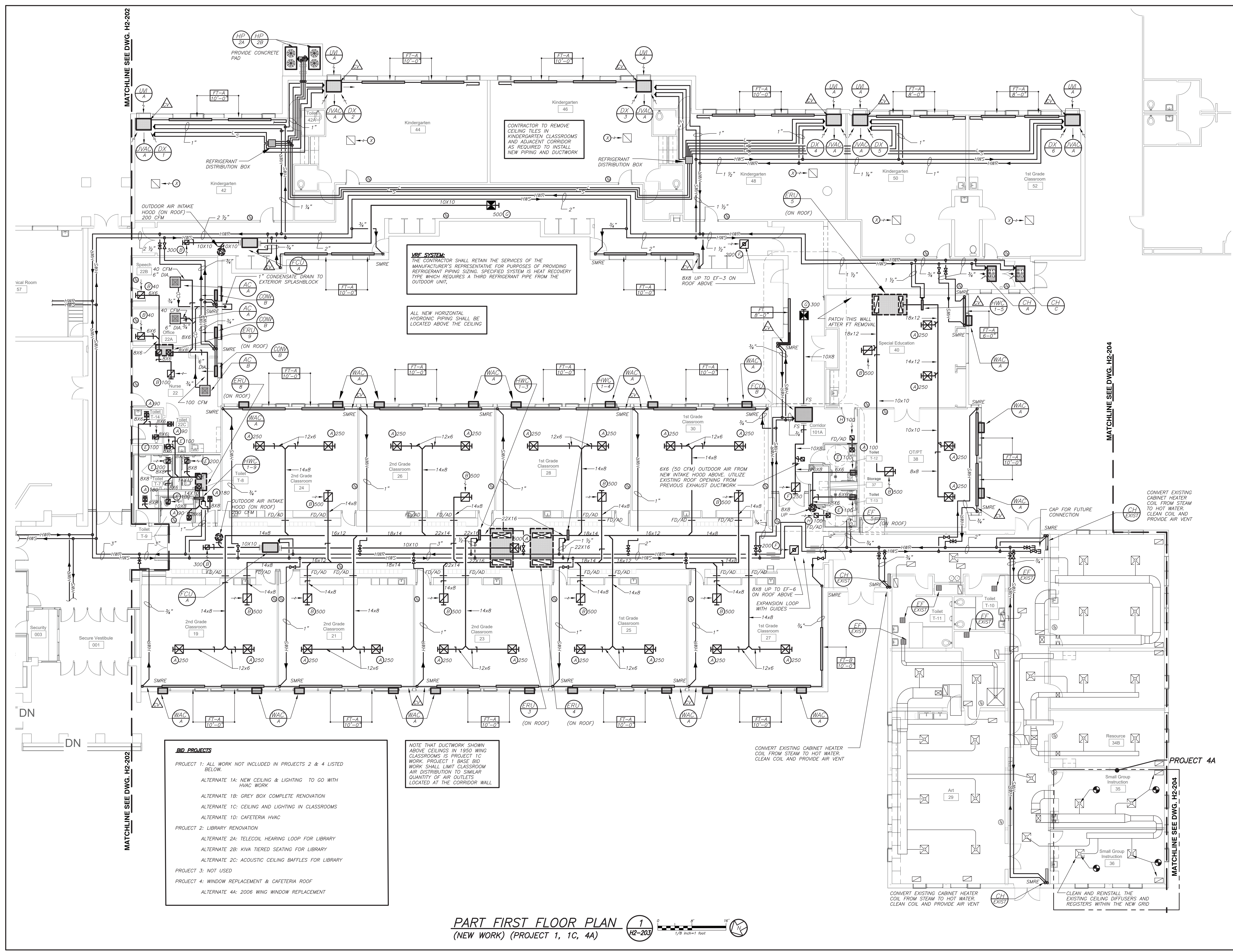
DATE: 12/18/19

PROJECT No: 9200

DRAWING BY: BGA

CHK BY: BGA

DWG No: H2-201



MATCHLINE SEE DWG. H2-202

MATCHLINE SEE DWG. H2-202

MATCHLINE SEE DWG. H2-204

MATCHLINE SEE DWG. H2-203

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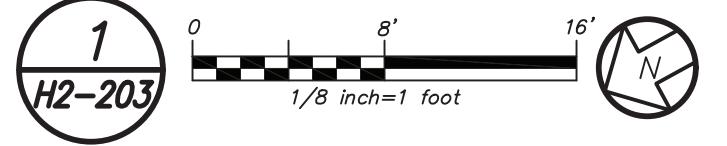
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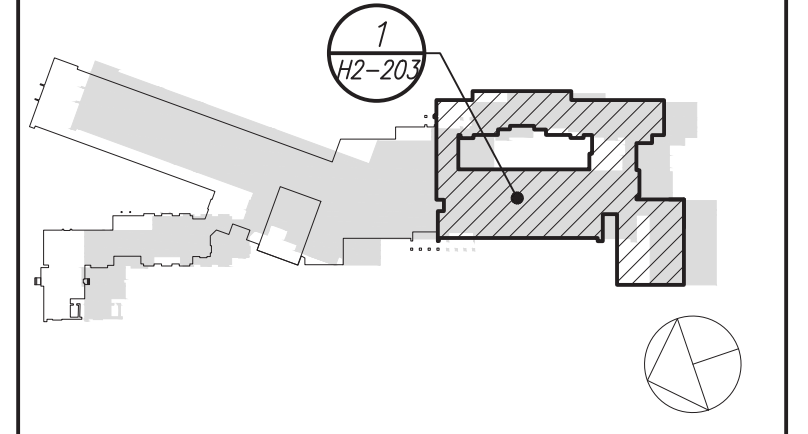
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1	SED Submission	09/15/2020
2	SED Submission Addendum#1	01/08/2021
3	ISSUED FOR BID	01/19/2021



Geddis Architects
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(203) 256-8700

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Transforming Education by Design

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401-724-1771

Civil Engineer
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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

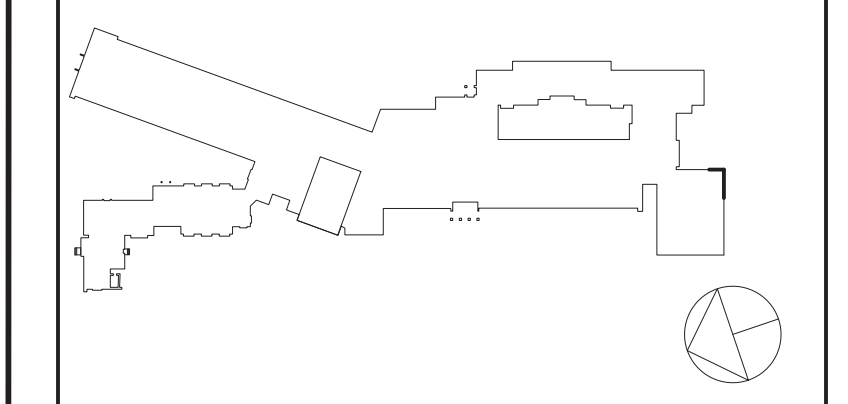
PARTIAL FIRST FLOOR PLAN

PROJECT 1, 1C, 4A

SEAL & SIGNATURE: _____ DATE: 12/18/19

PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: H2-203

Revision Schedule		
No.	Description	Date
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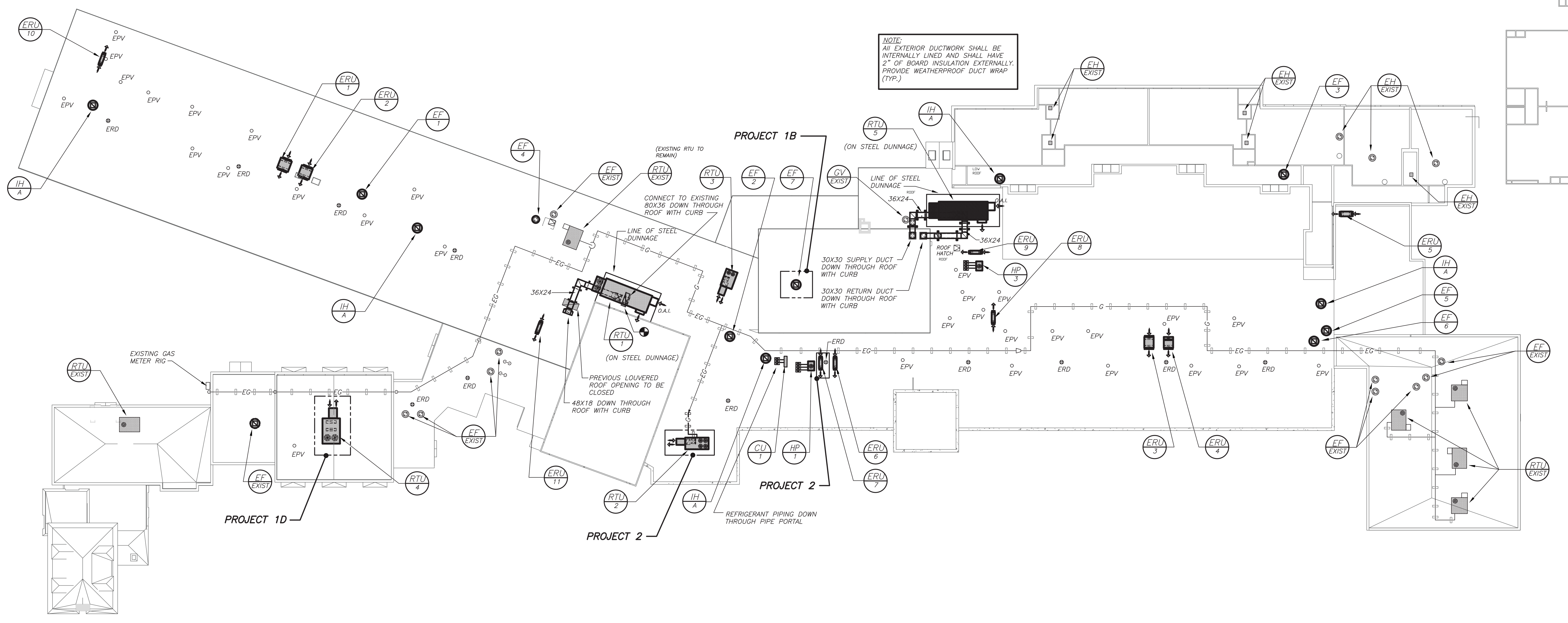
Acoustic Consultant
 DP DESIGN
 12 Cold Spring Street
 Providence, RI
 401-861-3218

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

ROOF PLAN
 PROJECT 1, 1B, 1D, 2

SEAL & SIGNATURE | DATE: 12/18/19
 PROJECT No: 9200
 DRAWING BY: BGA
 CHK BY: BGA
 DWG No: H2-204



ROOF PLAN 1
 (NEW WORK) (PROJECT 1, 1B, 1D, 2) H2-204
 Scale: 1 inch = 20 feet

BID PROJECTS

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

- ALTERNATE 1A: NEW CEILING & LIGHTING TO GO WITH HVAC WORK
- ALTERNATE 1B: GREY BOX COMPLETE RENOVATION
- ALTERNATE 1C: CEILING AND LIGHTING IN CLASSROOMS
- ALTERNATE 1D: CAFETERIA HVAC

PROJECT 2: LIBRARY RENOVATION

- ALTERNATE 2A: TELECOIL HEARING LOOP FOR LIBRARY
- ALTERNATE 2B: KIVA TIERED SEATING FOR LIBRARY
- ALTERNATE 2C: ACOUSTIC CEILING BAFFLES FOR LIBRARY

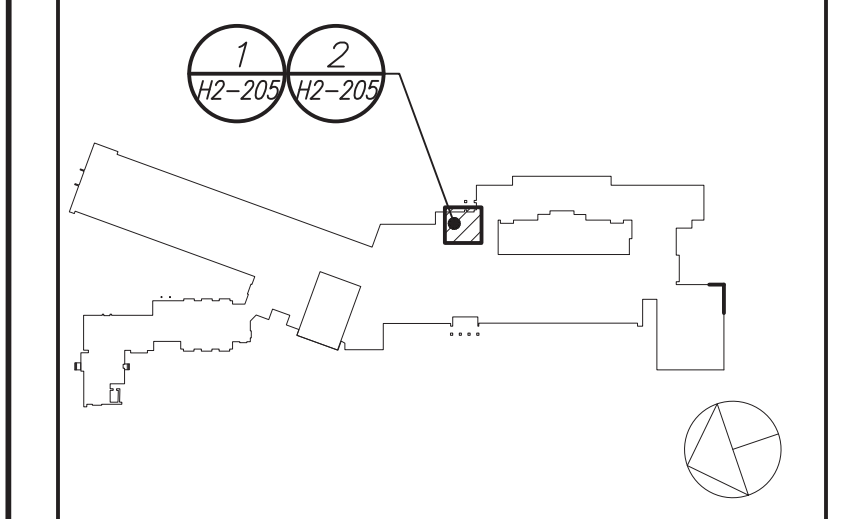
PROJECT 3: NOT USED

PROJECT 4: WINDOW REPLACEMENT & CAFETERIA ROOF

- ALTERNATE 4A: 2006 WING WINDOW REPLACEMENT

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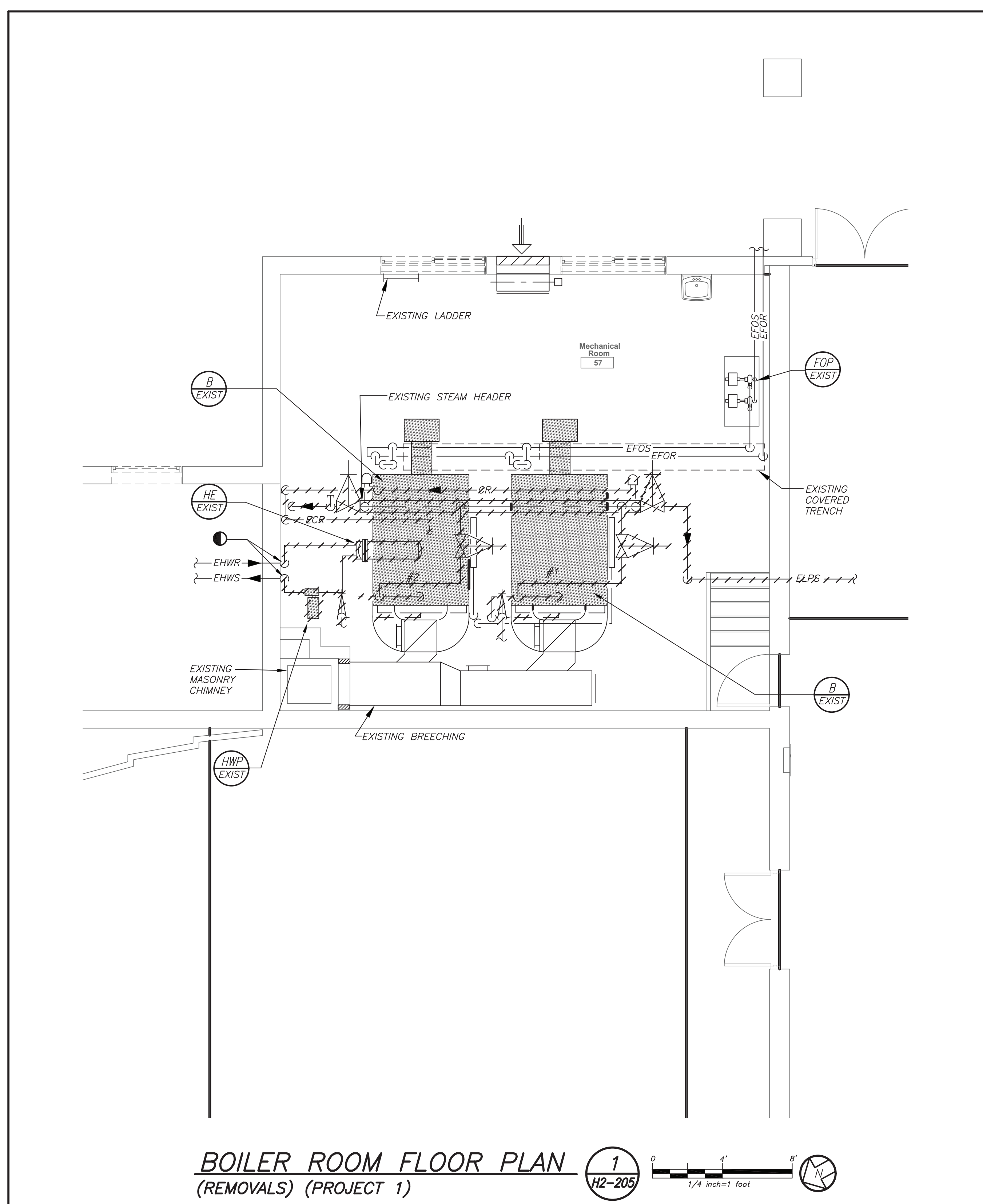
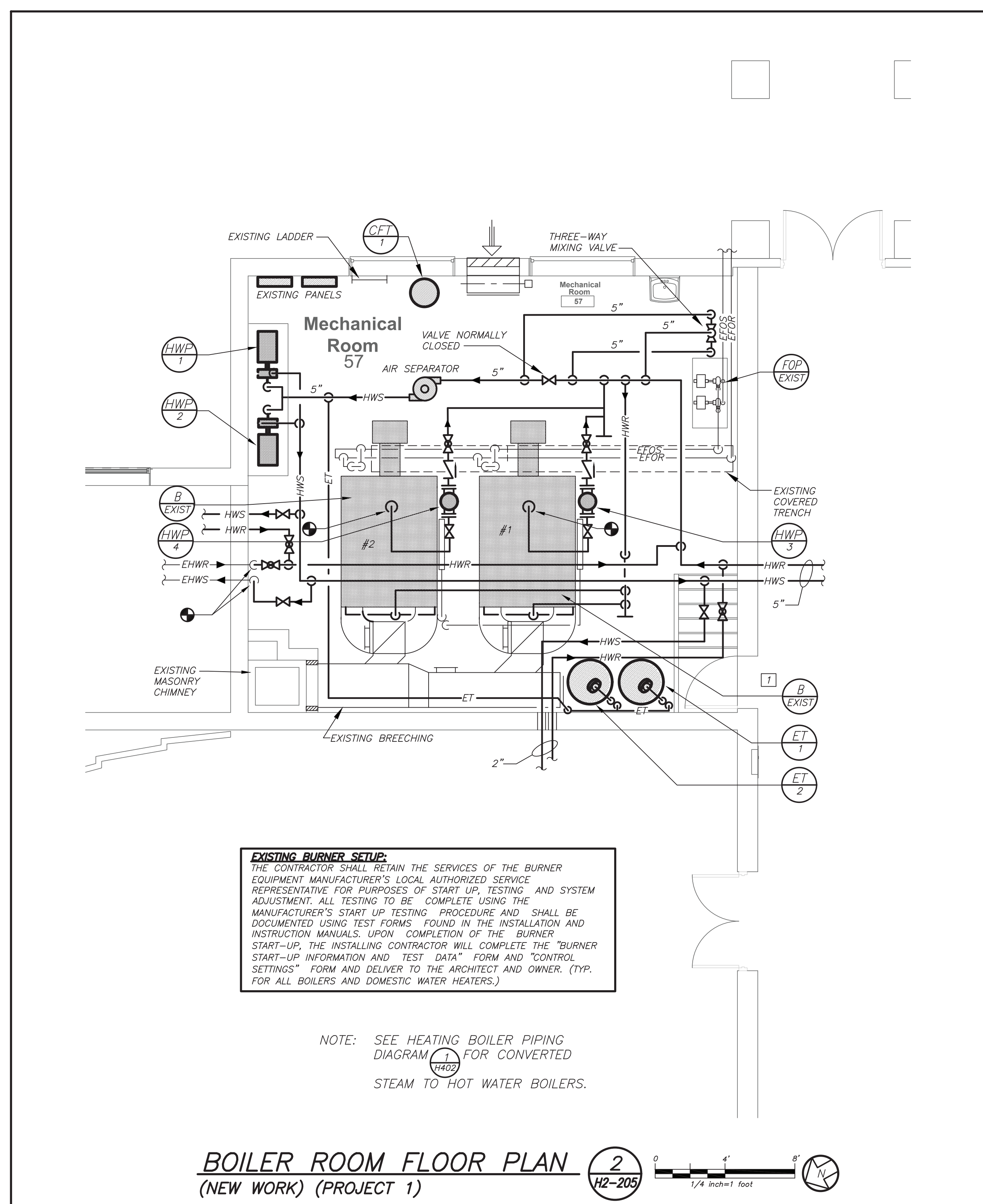
Acoustic Consultant
 DP DESIGN
 12 Cold Spring Street
 Providence, RI
 401-861-3218

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

BOILER ROOM PLANS
PROJECT 1

SEAL & SIGNATURE DATE: 12/18/19
 PROJECT No: 9200
 DRAWING BY: BGA
 CHK BY: BGA
 DWG No: H2-205



KEYED NOTES (NEW BOILER WORK)

1 CONVERT (2) EXISTING BOILERS (MODEL xxxxxx) FROM STEAM OPERATION TO HOT WATER. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS AND OBTAIN ALL APPROVALS. PROVIDE COMPLETE START-UP AND TEST OF THE CONVERTED BOILER SYSTEM USING FACTORY AUTHORIZED SERVICE AGENT. SEE SPECIFICATIONS.

THE CONVERSION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING SCOPE OF WORK:

BOILER CONTROLS, RELIEF VALVES AND ALL ASSOCIATED TRIM AND ACCESSORIES SHALL BE REMOVED AND REPLACED TO ACCOMMODATE THE BOILER CONVERSION FROM STEAM TO HOT WATER. EXISTING FUEL OIL PUMPS, PIPING AND ASSOCIATED CONTROLS SHALL BE PROTECTED DURING CONVERSION. FUEL OIL PUMPS SHALL BE TESTED, DOCUMENTED AND SUBMITTED INDICATING PUMP PERFORMANCE PRIOR TO DEMOLITION AND AGAIN AFTER CONVERSION FOR REQUIRED OPERATION PERFORMANCE. CONTRACTOR IS RESPONSIBLE TO REFURBISH PUMPS IF DAMAGED DURING CONSTRUCTION.

- REMOVAL OF THE BOILER STEAM RISERS, SUB-HEADER AND EQUALIZER PIPING.
- REMOVAL OF THE STEAM PRESSURE RELIEF VALVES.
- REMOVAL OF THE OPERATING, HIGH LIMIT BOILER PRESSURE CONTROLS.
- REMOVAL OF THE BOILER PRESSURE GAUGE.
- A COMPLETE CLEANING OF THE FIRESIDE OF THE BOILER TO INCLUDE BRUSH AND VACUUMING OF THE HEAT EXCHANGER AND RE-ASSEMBLY OF THE CLEAN OUT PASSAGES WITH NEW HIGH TEMPERATURE ROPE AS NEEDED.
- A COMPLETE CLEANING OF THE BOILER WATERSIDE TO INCLUDE WASHING, FLUSHING AND DE-SCALING OF THE HR IF NECESSARY.
- USING THE EXISTING FLANGED CONNECTION ON THE BOILER FRONT SECTION, REMOVE THE BLANKING PLATE AND INSTALL NEW PIPING TO HOT WATER SUPPLY.
- REMOVE THE FLANGE AND BLANKING PLATE FROM THE REAR SECTION. FURNISH AND INSTALL A RETURN TEMPERATURE STABILIZER TUBE ASSEMBLY (RTS) IN THE REAR SECTION, SLIDING THE ASSEMBLY INTO THE BOILER PER THE MANUFACTURER'S INSTRUCTIONS. CONNECT NEW RETURN PIPING TO THIS FLANGE CONNECTION.
- FURNISH AND INSTALL PIPE PLUGS IN THE SECTION TAPS WHERE THE RISERS WERE REMOVED.
- FURNISH THE FOLLOWING NEW BOILER CONTROLS:
 - L4006A OPERATING CONTROLLER.
 - L4006E HIGH LIMIT CONTROLLER.
 - TEMPERATURE SENSOR FOR EXISTING T775 CONTROLLER LOCATED IN BURNER PANEL.
 - PRESSURE / TEMPERATURE GAUGE.
 - WATTS TYPE 740 PRESSURE RELIEF VALVE - 50 PSI WITH A MINIMUM RELIEVING CAPACITY OF 3,344 MBH OR GREATER.

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

SCHEDULE OF PACKAGED ROOFTOP UNITS (WITH ENERGY RECOVERY)																																																
MARK	SERVICE	LOCATION	MODEL No.	AIRFLOW CONDITIONS				SUPPLY FAN			EXHAUST FAN			ENTHALPY				GAS HEATING DATA				CONDENSING UNIT DATA		DX COOLING COIL DATA				HOT WATER HEATING COIL DATA				FILTERS	ELECTRICAL DATA			DIMENSIONS			WEIGHT LBS	REMARKS								
				O.A. CFM	E.A. CFM	R.A. CFM	SALES IN. WC	RALES IN. WC	TYPE	CFM	T.S.P. IN. WC	HP	TYPE	CFM	T.S.P. IN. WC	HP	L.A.T. SUMMER DBE/WB	L.A.T. WINTER DBE/WB	HP	INPUT MBH	OUTPUT MBH	ENT. AIR TEMP. DB F	L.V.G. AIR TEMP. DB F	REFRIG.	ENT. AIR TEMP. DB F	CAPACITY TOTAL/SEN. MBH	VELOCITY F.P.M.	E.A.T. DB/WB	L.A.T. DB/WB	VELOCITY F.P.M.	E.A.T. DB/WB		L.A.T. DB/WB	GPM	VOLTAGE	MCA	MOCOP	L			W	H						
RTU-1	GYMNASIUM	ROOF	ERP-E-07-EW02-C-H-AZ	1700	1700	6300	1.5	1.0	PLENUM	8000	4.36	10.0	PLENUM	8000	2.98	7.5	79.6	66.8	47.6	40.3	1/4	-	-	-	-	R410	92	235	182	500	76.0	63.5	55	54	SEE FIELD	-	-	-	-	MERV 13	208/1/60	144.6	175	301	93	86	9,500	REFER TO 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 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RTU-2	MEDIA CENTER	ROOF	ZVT07S18V2TCE4SFA7	950	950	1850	1.0	1.0	PLENUM	2800	1.5	3.0	PLENUM	2800	1.0	3.0	79.3	67.2	55.1	43.3	1/4	180	144	42	90			90	67	500	82.1	75.5	52	52	SEE FIELD	-	-	-	-	MERV 13		69.8	80	120	60	52	1,700	REFER TO 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 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576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000
RTU-3	MUSIC 20	ROOF	ZWTAS000V2TCA43FAB	530	530	1470	1.0	1.0	PLENUM	2000	1.5	2.0	PLENUM	2000	1.0	2.0	79.3	67.2	55.1	43.3	1/4	-	-	-	-			60	45	500	82.1	75.5	52	52	SEE FIELD	-	-	-	-	MERV 13		48.0	60	90	60	42	1,000	REFER TO 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149

SCHEDULE OF EXHAUST FANS

MARK	SERVICE	LOCATION	TYPE	MODEL No. ①	CFM	TOT. S.P. IN H ₂ O	HP/AMPS	ELECTRIC SERVICE	REMARKS
CF	CORRIDOR 1951 NORTHEAST	ROOF	CENTRIFUGAL	G-095-VGEX-QD	200	0.125	1/8	120/1/60	REFER TO ①②③
CF	CORRIDOR GYM/GRAY BOX	ROOF	CENTRIFUGAL	G-095-VGEX-QD	200	0.125	1/8	120/1/60	REFER TO ①②③
CF	CORRIDOR 1991 SOUTH	ROOF	CENTRIFUGAL	G-095-VGEX-QD	200	0.125	1/8	120/1/60	REFER TO ①②③
CF	TOILET/JAN. CLST. 1951 NORTHEAST	ROOF	CENTRIFUGAL	G-095-VGEX-QD	150	0.125	1/8	120/1/60	REFER TO ①②③
CF	TOILET ROOMS 1-12, 1-13	ROOF	CENTRIFUGAL	G-095-VGEX-QD	100	0.125	1/8	120/1/60	REFER TO ①②③
CF	CORRIDOR 1951 SOUTH	ROOF	CENTRIFUGAL	G-095-VGEX-QD	200	0.125	1/8	120/1/60	REFER TO ①②③
CF	GRAY BOX STORAGE ROOMS	ROOF	CENTRIFUGAL	G-095-VGEX-QD	200	0.125	1/8	120/1/60	REFER TO ①②③

NOTES

- AS MANUFACTURED BY "GREENHECK".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- FURNISH FACTORY SPEED CONTROL.
- FURNISH FACTORY BACKDRAFT DAMPER AND DISCONNECT SWITCH.

SCHEDULE OF WINDOW A.C. UNITS

MARK	MODEL No. ①	TOTAL CAP. BTU/HR	SUPPLY CFM	E.E.R.	C.E.E.R.	ELECTRIC SERVICE	PHYSICAL DATA DIMENSION/WEIGHT ("L"X"W"X"H")/(LBS)	REMARKS
WAL	WCT16A30A	15,400	300	9.4	9.3	208/1/60	28x24x18/120	REFER TO ①②③④

NOTES

- AS MANUFACTURED BY "FRIEDRICH A.C. CO."
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE W/SE WALL SLEEVE AND INTERNAL DRAIN KIT.
- UNIT TO BE FURNISHED WITH ALL STANDARD COMPONENTS AND ALL REQUIRED SUPPORT/MOUNTING BRACKETS.
- UNIT PROVIDED WITH MIN. 6"-0" CORD & RIGHT ANGLE PLUG.

SCHEDULE OF CABINET HEATERS

MARK	TYPE UNIT	MODEL No. ①	CAPACITY DATA				MOTOR WATTS	MOTOR RPM	ELECTRIC SERVICE	REMARKS
			BTU/HR	CFM	GPM	P.D.F.T.				
CH	CEILING MTD.	RC 1170 03	20.6	3.35	2.0	0.25	1/15	1050	120/1/60	REFER TO ①②③④⑤⑥
CH	CEILING MTD.	RC 1170 04	29.8	4.30	3.0	0.25	1/15	1050	120/1/60	REFER TO ①②③④⑤⑥
CH	CEILING MTD.	RC 1170 02	16.4	2.30	2.0	0.25	1/15	1050	120/1/60	REFER TO ①②③④⑤⑥

NOTES

- AS MANUFACTURED BY "STERLING".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- CAPACITIES BASED ON LOW SPEED FAN SETTING, AND 160° F A.W.T.
- PROVIDE 2 ROW COIL, THROWAWAY FILTERS, INTEGRAL SPEED CONTROL, DISCONNECT SWITCH, REMOTE WALL SENSOR CONNECTED TO BMS, GASKET AND PERMA LAP FRAME. COORDINATE FINISH AND COLOR WITH ARCHITECT.
- UNIT DIMENSIONS 36"x25"x9.5", WEIGHT 150 LBS.
- PROVIDE WITH HOT WATER RETURN AQUASTAT. AQUASTAT SHALL NOT ALLOW FAN TO OPERATE AT WATER TEMPERATURE BELOW 110 DEGREES F.

SCHEDULE OF VRF DUCTLESS HEAT RECOVERY MULTI-SPLIT SYSTEMS

INDOOR AIR HANDLER INFORMATION										OUTDOOR CONDENSING UNIT INFORMATION										EER	REMARKS			
GENERAL DATA			SUPPLY FAN DATA			COOLING COIL DATA ①				HEATING		GENERAL INFO.			COMPRESSOR DATA		CONDENSER FAN DATA		ELECTRICAL INFORMATION					
MARK	LOCATION	SERVICE	MODEL No. ①	HIGH CFM	MOTOR (AMPS)	ELECTRIC SERVICE	TOTAL CAP. BTU/HR	SENSIBLE CAP. BTU/HR	ENT. AIR TEMP. DB/°F	LEAF/°F	TOTAL CAP. BTU/HR	ENT. AIR TEMP. DB/°F	MARK	MODEL No. 1	CAPACITY BTU/HR	QTY.	MOTOR OUTPUT (KW)	(O.T.Y.) MOTOR OUTPUT (KW)	(O.T.Y.) MOTOR OUTPUT (KW)	V/PH/Hz	MCA	MOCP		
AC	CEILING	SGR 141	ARNU073TNA4	460	0.56	208/1/60	7,500	5,750	80	67	8,500	70	①	MULTI V5 ARUM121 BTE5	120,000	1	4.0X2	2	1.0+1.0	208/3/60	45.4	50	12.10	REFER TO ①②③④⑤
AC		CONFERENCE ROOM 63	ARNU123M3A4	250	0.76		12,000	7,430			13,500		①											
AC		WORK ROOM 64A	ARNU073TNA4	460	0.56		7,500	5,750			8,500		①											
AC		SUPPLY 64	ARNU073TNA4	460	0.56		7,500	5,750			8,500		①											
AC		MAIN OFFICE 67	ARNU243M3A4	750	0.56		24,200	17,800			27,300		①											
AC		PRINCIPAL 64	ARNU073TNA4	460	0.56		7,500	5,750			8,500		①											
AC		ASSIST. PRINCIPAL 62	ARNU073TNA4	460	0.56		7,500	5,750			8,500		①											
AC		SECURITY 60	ARNU073TNA4	460	0.56		7,500	5,750			8,500		①											
AC		MAKER SPACE	ARNU073TNA4	460	0.56		7,500	5,750			8,500		①											
AC		MAKER SPACE	ARNU073TNA4	460	0.56		7,500	5,750			8,500		①											
AC		MAKER SPACE	ARNU073TNA4	460	0.56		7,500	5,750			8,500		①											
AC	WITHIN LV	CLASSROOM 42		1400			48,000	35,500			50,000		①											
AC		CLASSROOM 44		1400			48,000	35,500			50,000		①											
AC		CLASSROOM 46		1400			48,000	35,500			50,000		①											
AC		CLASSROOM 48		1400			48,000	35,500			50,000		①											
AC		CLASSROOM 50		1400			48,000	35,500			50,000		①											
AC		CLASSROOM 52		1400			48,000	35,500			50,000		①											
AC	CEILING	NURSE 22	ARNU243M3A4	750	0.56	208/1/60	24,200	17,800			27,300		①											
AC		OFFICE 22A	ARNU123M2A4	500	0.56		12,000	7,430			13,500		①											
AC		OFFICE 22B	ARNU123M2A4	500	0.56		12,000	7,430			13,500		①											

NOTES

- AS MANUFACTURED BY "LG". (KLIMA NEW YORK, LLC 212 678-5100)
- COOLING BASED ON A.R.I. CONDITIONS.
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE PROGRAMMABLE THERMOSTAT, LOW AMBIENT CONTROL, HARD START, CRANKCASE HEATER, DISCONNECT SWITCH.
- PROVIDE CONDENSATE PUMP EQUAL TO "LITTLE GIANT" AT EACH INDOOR CASSETTE UNIT.
- PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD. SYSTEM SHALL BE HEAT RECOVERY TYPE.
- PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM.

SCHEDULE OF UNIT VENTILATORS

MARK	SERVICE	MODEL No.	CFM	MIN. O.A. CFM	HEATING DATA ②		COOLING DATA ③		ENERGY RECOVERY WHEEL - HEATING FOR COOLING COIL				FILTER TYPE	INDOOR MOTOR HP	RELIEF MOTOR HP	ELECTRICAL DATA		DIMENSIONS L" x D" x H"	WEIGHT (LBS.)	REMARKS	
					CAPACITY MBH	GPM	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	EXH. CFM	O.A. DB °F	LAT. DB °F	ROOM TEMP DB °F				CAPACITY MBH	SERVICE				MCA
UV	1991 CLASSROOMS	HRA 48 1400 BC	1400	500	50.0	5.0	57.3	40.4	500	6	54	72	33.0	MERV 13 THROWAWAY	1/2	1/3	208/1/60	9.25	40"x25"x92"	750	REFER TO ①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭
UV	CHORAL CLSRM	MAUVE6	2000	500	50.0	5.0	48.0	35.6						MERV 13 THROWAWAY	1/2	1/3	208/1/60		98"x16"x30"	300	REFER TO ①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭

NOTES

- AS MANUFACTURED BY "SYSTEMAIR/CHANGEAIR". (KLIMA NEW YORK, LLC 212 678-5100)
- HEATING BASED ON HOT WATER COIL AT LOW CFM SPEED. HEATING COIL CAPACITY BASED ON 160° F EWT & 140° F LWT.
- PROVIDE UNIT WITH HOT WATER COIL, DIRECT EXPANSION COIL (VRF COMPATIBLE R410A REFRIGERANT), FREEZE PROTECTION, DISCONNECT SWITCH, TOP PLENUM TWO-WAY SUPPLY DISCHARGE, 10" REAR PLENUM, ECM FANS, VIBRATION PADS, REAR OUTDOOR AIR INTAKE AND EXHAUST, SIDE PIPE COVERS, TOP PLENUM COVER, FULL IG SOUND PACKAGE, FACTORY LOUVERS 36"x36".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- CFM BASED ON HIGH SPEED WITH PSC MOTOR.
- COLOR TO BE SELECTED BY ARCHITECT FROM PREMIUM COLOR CHART.
- COORDINATE HVAC EQUIPMENT FAN SHUT DOWN BY FIRE ALARM PANEL WITH ELECTRICAL CONTRACTOR.
- UNITS SHALL HAVE VRF COMPATIBLE DX COIL, SUPPORTS AND APPURTENANCES.
- REFER TO VRF HEAT RECOVERY MULTI-SPLIT SYSTEM SCHEDULE FOR COOLING COIL.
- SEE ④ ON VRF SCHEDULE.
- AS MANUFACTURED BY "MAGICAIRE".
- COORDINATE PLENUM HEIGHT WITH REFLECTED CEILING PLAN.
- PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM.
- PROVIDE DX COILING COIL AND DRAIN PAN FOR FUTURE USE.

SCHEDULE OF DUCT MOUNTED SOUND ATTENUATORS

MARK	SERVICE	AIR FLOW DIRECTION	CONFIG. TYPE	CFM	LENGTH	HEIGHT	WIDTH	PRESSURE DROP IN. S.P.	REMARKS
SA	MUSIC 20	SUPPLY	STRAIGHT	1200	36"	18"	14"	.20	REFER TO ①②③④
SA	MUSIC 20	RETURN	STRAIGHT	1200				.20	

NOTES

- AS MANUFACTURED BY "IAC".
- SEE SPECIFICATION FOR CONSTRUCTION.
- AIR PRESSURE DROP THROUGH ATTENUATOR SHALL NOT EXCEED 0.20" S.P.
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

SCHEDULE OF PUMPS

MARK	SERVICE	LOCATION	MODEL No.	GPM	HEAD FT. H ₂ O	RPM	MOTOR HP	ELECTRIC SERVICE	REMARKS
BP	BUILDING DISTRIBUTION	BOILER ROOM	SERIES e-1510 2.5BB	300	78.5	1750	10.0	208/3/60	REFER TO ①②③
BP	BUILDING DISTRIBUTION	BOILER ROOM	SERIES e-1510 2.5BB	300	78.5	1750	10.0	208/3/60	REFER TO ①②③
BP	BOILER No.1	BOILER ROOM	SERIES e-80 3X3X7C	150	21.4	1750	2.0	208/3/60	REFER TO ①②③
BP	BOILER No.2	BOILER ROOM	SERIES e-80 3X3X7C	150	21.4	1750	2.0	208/3/60	REFER TO ①②③

NOTES

- AS MANUFACTURED BY "BELL & GOSSET".
- INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE VFD.

SCHEDULE OF FAN COIL UNITS

MARK	MODEL No.	CFM	MIN. O.A. CFM	COOLING DATA			HEATING DATA ①			FILTER TYPE	MOTOR H.P.	ELEC. SERV.	REMARKS
				TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	ROWS	CHILLED WATER GPM	CAPACITY MBH	ROWS				
FCU	012-CHWA-41	500	100				25.0	1	2.5	CLEANABLE	1/8	120/1/60	REFER TO ①②③④⑤
FCU	42VF-04	300	50				12.0	1	1.5	CLEANABLE	1/12	120/1/60	REFER TO ①②③④⑤

NOTES

- AS MANUFACTURED BY "MAGIC AIRE".
- AS MANUFACTURED BY "CARRIER CORP".
- BASED ON 180° F EWT AND 160° F LWT.
- UNITS SHALL BE EQUIPPED WITH FACTORY SERVICE DISCONNECT.
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- UNITS SHALL BE EQUIPPED WITH HIGH STATIC MOTOR, RETURN PLENUM AND FILTER TRACK.
- UNITS SHALL BE INITIALLY EQUIPPED W/THROWAWAY "CONSTRUCTION" FILTERS. REPLACE W/CLEANABLE FILTERS UPON TURN OVER OF THE ROOMS FOR BENEFICIAL USE.

SCHEDULE OF EXPANSION TANKS

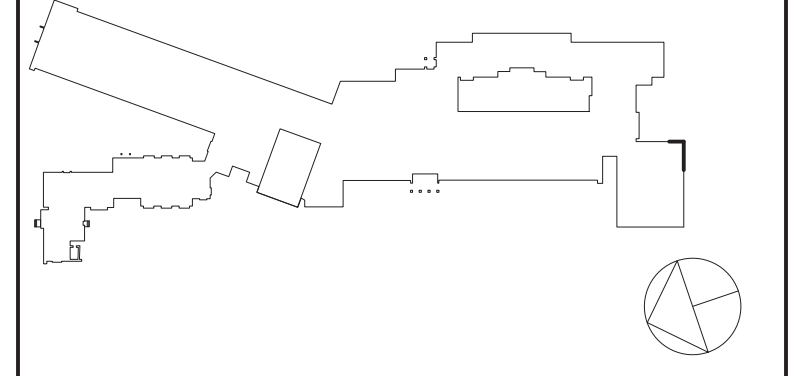
MARK	SERVICE	LOCATION	MODEL No.	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
ET	HEATING SYSTEM	BOILER ROOM	800-L-150	211	211	REFER TO ①②③
ET	HEATING SYSTEM	BOILER ROOM	800-L-150	211	211	REFER TO ①②③

NOTES

- AS MANUFACTURED BY "BELL & GOSSET".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- ASME RATED, VERTICAL FLOOR MOUNTING.

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



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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

SCHEDULES

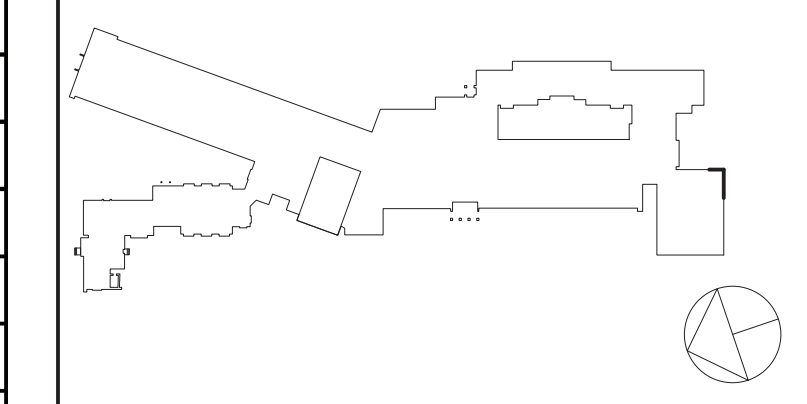
SEAL & SIGNATURE _____ DATE: 12/18/19

PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: H2-302

SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES											
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (PP/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)+100+HP	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	J MINIMUM EXHAUST AIR FLOW RATE A+E+CFM
H201											
CLASSROOM 1	CLASSROOM (AGES 5-8)	850	25	10	0.12	0	22	322	0.8	403	0
CLASSROOM 2	CLASSROOM (AGES 5-8)	850	25	10	0.12	0	22	322	0.8	403	0
CLASSROOM 3	CLASSROOM (AGES 5-8)	850	25	10	0.12	0	22	322	0.8	403	0
CLASSROOM 4	CLASSROOM (AGES 5-8)	850	25	10	0.12	0	22	322	0.8	403	0
CLASSROOM 5	CLASSROOM (AGES 5-8)	850	25	10	0.12	0	22	322	0.8	403	0
CLASSROOM 6	CLASSROOM (AGES 5-8)	850	25	10	0.12	0	22	322	0.8	403	0
CLASSROOM 7	CLASSROOM (AGES 5-8)	850	25	10	0.12	0	22	322	0.8	403	0
CLASSROOM 8	CLASSROOM (AGES 5-8)	850	25	10	0.12	0	22	322	0.8	403	0
CLASSROOM 9	CLASSROOM (AGES 5-8)	850	25	10	0.12	0	22	322	0.8	403	0
CLASSROOM 10	CLASSROOM (AGES 5-8)	970	25	10	0.12	0	25	366	0.8	458	0
CLASSROOM 11	CLASSROOM (AGES 5-8)	850	25	10	0.12	0	22	322	0.8	403	0
SMALL INSTRUCTION GROUP 12	CLASSROOM (AGES 5-8)	330	25	10	0.12	0	9	130	0.8	162	0
SMALL INSTRUCTION GROUP 14	CLASSROOM (AGES 5-8)	340	25	10	0.12	0	9	131	0.8	164	0
FACULTY 16	BREAK ROOMS	680	50	5	0.12	0	34	252	0.8	315	0
CLASSROOM 18	CLASSROOM (AGES 5-8)	765	25	10	0.12	0	20	292	0.8	365	0
FACULTY TOILET	TOILETS - PUBLIC	53	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLASSROOM 13	CLASSROOM (AGES 5-8)	140	25	10	0.12	0	4	57	0.8	71	0
CAFETERIA 54	CAFETERIA/FAST-FOOD DINING	2170	100	7.5	0.18	0	217	2018	0.8	2523	0
Cafeteria Toilet 1	TOILETS - PUBLIC	24	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
Cafeteria Toilet 2	TOILETS - PUBLIC	24	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLASSROOM 3	CLASSROOM (AGES 5-8)	2126	25	10	0.12	0	64	795	0.8	994	0
CLASSROOM 13A	CLASSROOM (AGES 5-8)	420	25	10	0.12	0	11	160	0.8	201	0
CLASSROOM 13B	CLASSROOM (AGES 5-8)	303	25	10	0.12	0	8	116	0.8	145	0
CLASSROOM 13C	CLASSROOM (AGES 5-8)	354	25	10	0.12	0	9	132	0.8	166	0
TOILET F-2	TOILETS - PUBLIC	275	5 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	250
TOILET F-2	TOILETS - PUBLIC	275	5 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	250
TOILET F-3	TOILETS - PUBLIC	75	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
TOILET F-4	TOILETS - PUBLIC	30	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
TOILET F-5	TOILETS - PUBLIC	275	5 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	250
TOILET F-6	TOILETS - PUBLIC	275	5 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	250
Janitor	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	53	0	0	0	0	0	0	0.8	0	53
TOILET 55A	TOILETS - PUBLIC	32	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
KITCHEN 55	KITCHEN (COOKING)	402	20	7.5	0.12	0.7	9	116	0.8	145	281
H202											
SGR 141	CLASSROOM (AGES 5-8)	90	25	10	0.12	0	3	41	0.8	51	0
CONFERENCE ROOM 63	CONFERENCE/MEETING	196	50	5	0.06	0	10	62	0.8	77	0
WORKROOM 64A	BREAK ROOMS	67	50	5	0.12	0	4	28	0.8	35	0
SUPPLY 64	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	57	2	5	0.06	0	1	8	0.8	11	0
PRINCIPAL 61	OFFICE SPACE	154	5	5	0.06	0	1	14	0.8	18	0
MAIN OFFICE 67	OFFICE SPACE	385	5	5	0.06	0	2	33	0.8	41	0
ASSISTANT PRINCIPAL 62	OFFICE SPACE	111	5	5	0.06	0	1	12	0.8	15	0
SECURITY 60	OFFICE SPACE	88	5	5	0.06	0	1	10	0.8	13	0
SECURE VESTIBLE 59	OFFICE SPACE	207	5	5	0.06	0	2	22	0.8	28	0
MUSIC 20	MUSIC/THEATRE/DANCE	1165	35	10	0.06	0	41	480	0.8	600	0
GRAY BOX GBT.0	MUSIC/THEATRE/DANCE	2965	35	10	0.06	0	104	1218	0.8	1522	0
GYM 53	GYM, SPORTS ARENA (PLAY AREA)	2685	7	20	0.18	0.5	19	863	0.8	1079	1343
TOILET 53A	TOILETS - PUBLIC	475	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
space 1	CONFERENCE/MEETING	542	50	5	0.06	0	28	173	0.8	216	0
space 2	MEDIA CENTER	1925	25	10	0.12	0	49	721	0.8	901	0
corridors	CORRIDORS	0	0	0	0.06	0	0	0	0.8	0	0
H203											
CLASSROOM 19	CLASSROOM (AGES 5-8)	875	25	10	0.12	0	22	325	0.8	406	0
CLASSROOM 21	CLASSROOM (AGES 5-8)	875	25	10	0.12	0	22	325	0.8	406	0
CLASSROOM 23	CLASSROOM (AGES 5-8)	875	25	10	0.12	0	22	325	0.8	406	0
CLASSROOM 24	CLASSROOM (AGES 5-8)	875	25	10	0.12	0	22	325	0.8	406	0
CLASSROOM 25	CLASSROOM (AGES 5-8)	875	25	10	0.12	0	22	325	0.8	406	0
CLASSROOM 26	CLASSROOM (AGES 5-8)	875	25	10	0.12	0	22	325	0.8	406	0
CLASSROOM 27	CLASSROOM (AGES 5-8)	875	25	10	0.12	0	22	325	0.8	406	0
CLASSROOM 28	CLASSROOM (AGES 5-8)	875	25	10	0.12	0	22	325	0.8	406	0
CLASSROOM 30	CLASSROOM (AGES 5-8)	875	25	10	0.12	0	22	325	0.8	406	0
NURSE 22	OFFICE SPACE	370	5	5	0.06	0	2	32	0.8	40	0
TOILET 22C	TOILETS - PUBLIC	49	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
TOILET T-7	TOILETS - PUBLIC	119	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
TOILET T-8	TOILETS - PUBLIC	115	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
TOILET T-9	TOILETS - PUBLIC	47	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
TOILET T-14	TOILETS - PUBLIC	55	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
OFFICE 22A	OFFICE SPACE	170	5	5	0.06	0	1	15	0.8	19	0
OFFICE 22B	OFFICE SPACE	232	5	5	0.06	0	2	24	0.8	30	0
CLASSROOM 42	CLASSROOM (AGES 5-8)	900	25	10	0.12	0	23	338	0.8	423	0
CLASSROOM 42	TOILETS - PUBLIC	31	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLASSROOM 44	CLASSROOM (AGES 5-8)	930	25	10	0.12	0	24	352	0.8	440	0
TOILET 42A	TOILETS - PUBLIC	31	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLASSROOM 46	CLASSROOM (AGES 5-8)	930	25	10	0.12	0	24	352	0.8	440	0
CLASSROOM 46	TOILETS - PUBLIC	31	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLASSROOM 50	CLASSROOM (AGES 5-8)	845	25	10	0.12	0	22	321	0.8	402	0
CLASSROOM 50/52	TOILETS - PUBLIC	81	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLASSROOM 52	CLASSROOM (AGES 5-8)	815	25	10	0.12	0	21	308	0.8	385	0
CLASSROOM 40	CLASSROOM (AGES 5-8)	855	25	10	0.12	0	22	323	0.8	403	0
CLASSROOM 38	CLASSROOM (AGES 5-8)	762	25	10	0.12	0	20	291	0.8	364	0
TOILET T-12	TOILETS - PUBLIC	58	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
TOILET T-13	TOILETS - PUBLIC	58	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CORRIDOR 101A	CORRIDORS	433	0	0	0.06	0	0	26	0.8	32	0
corridors	CORRIDORS	0	0	0	0.06	0	0	0	0.8	0	0

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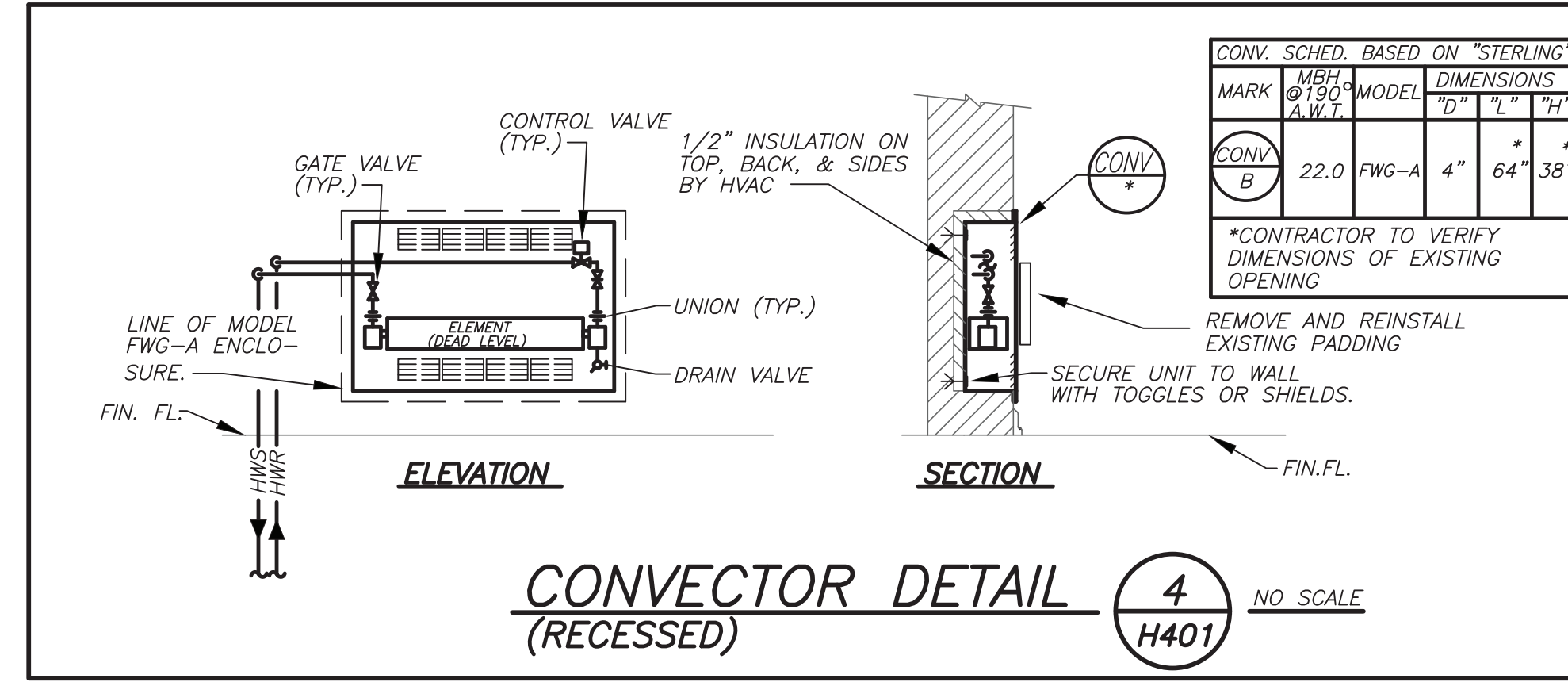
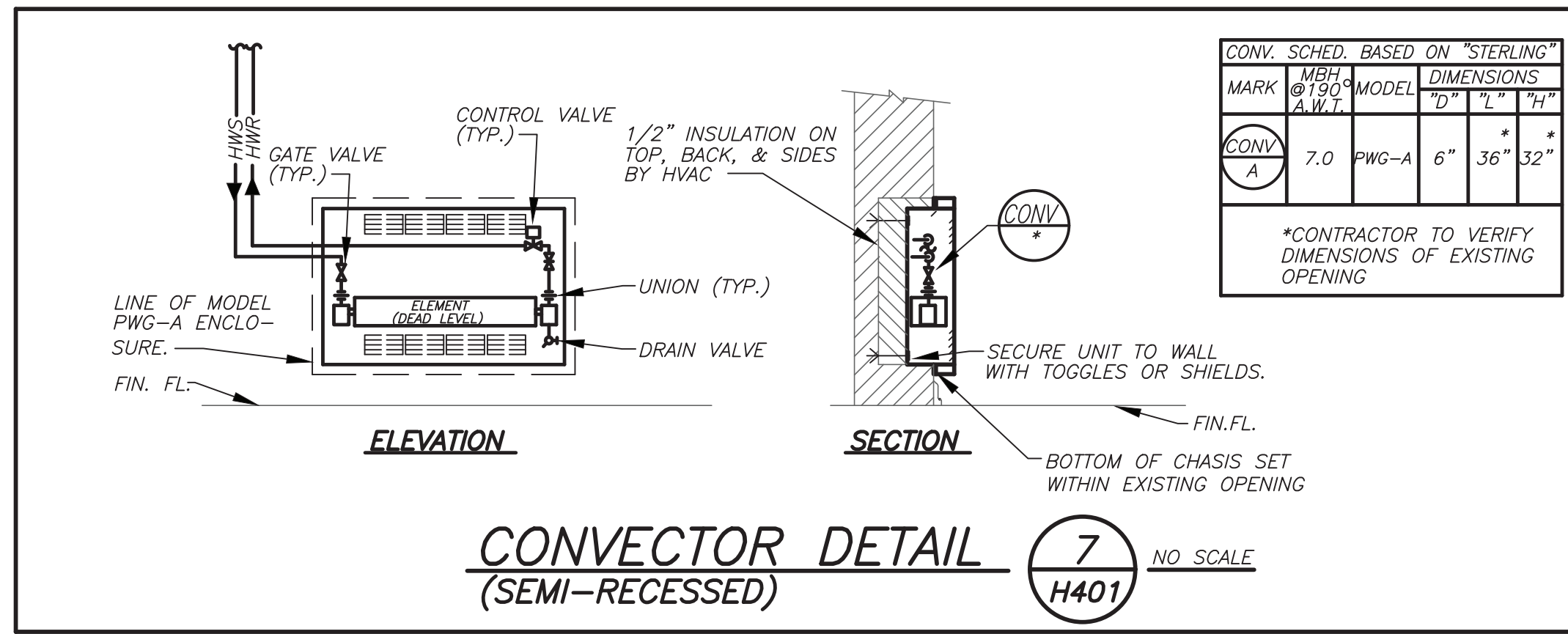
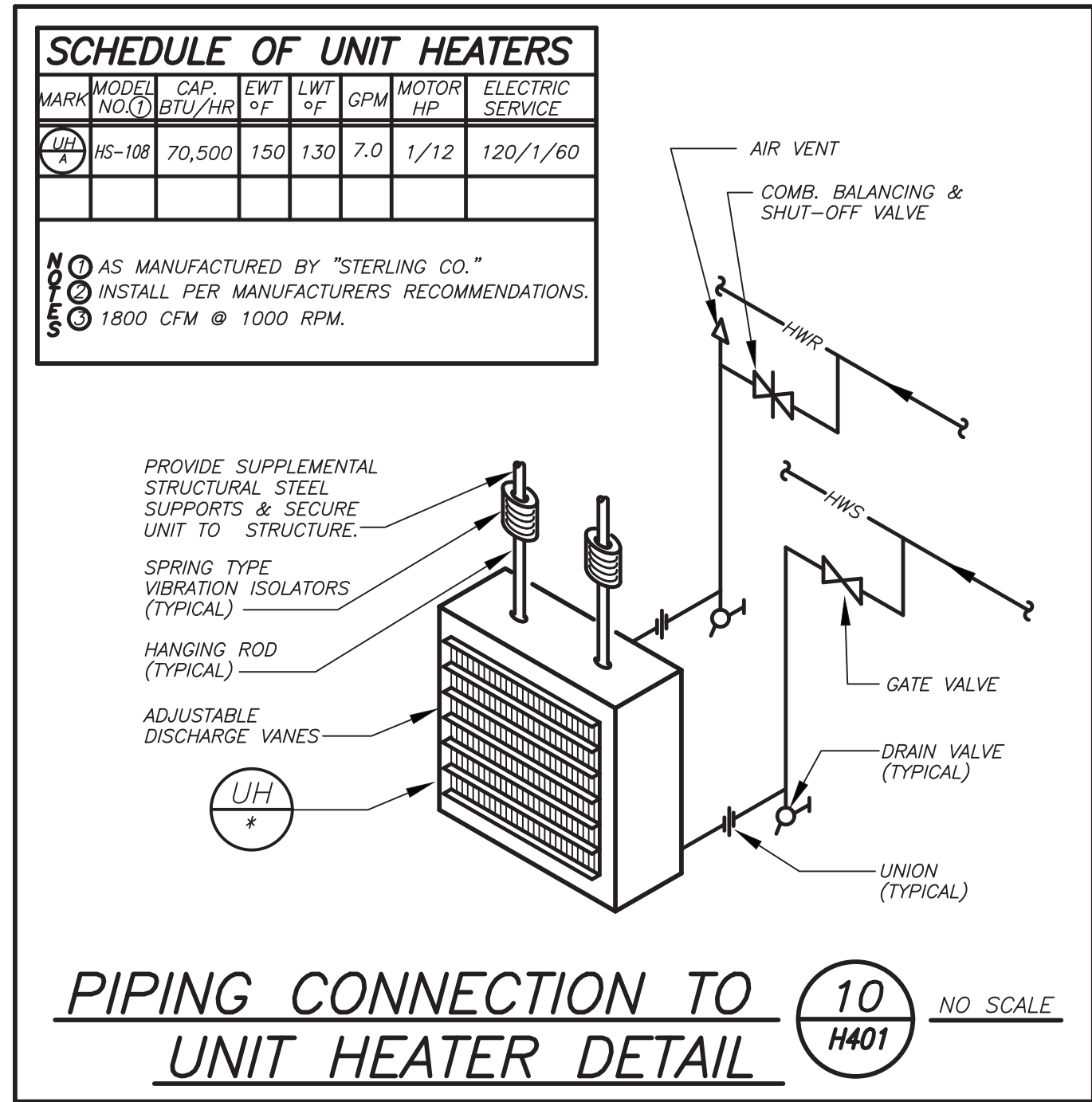
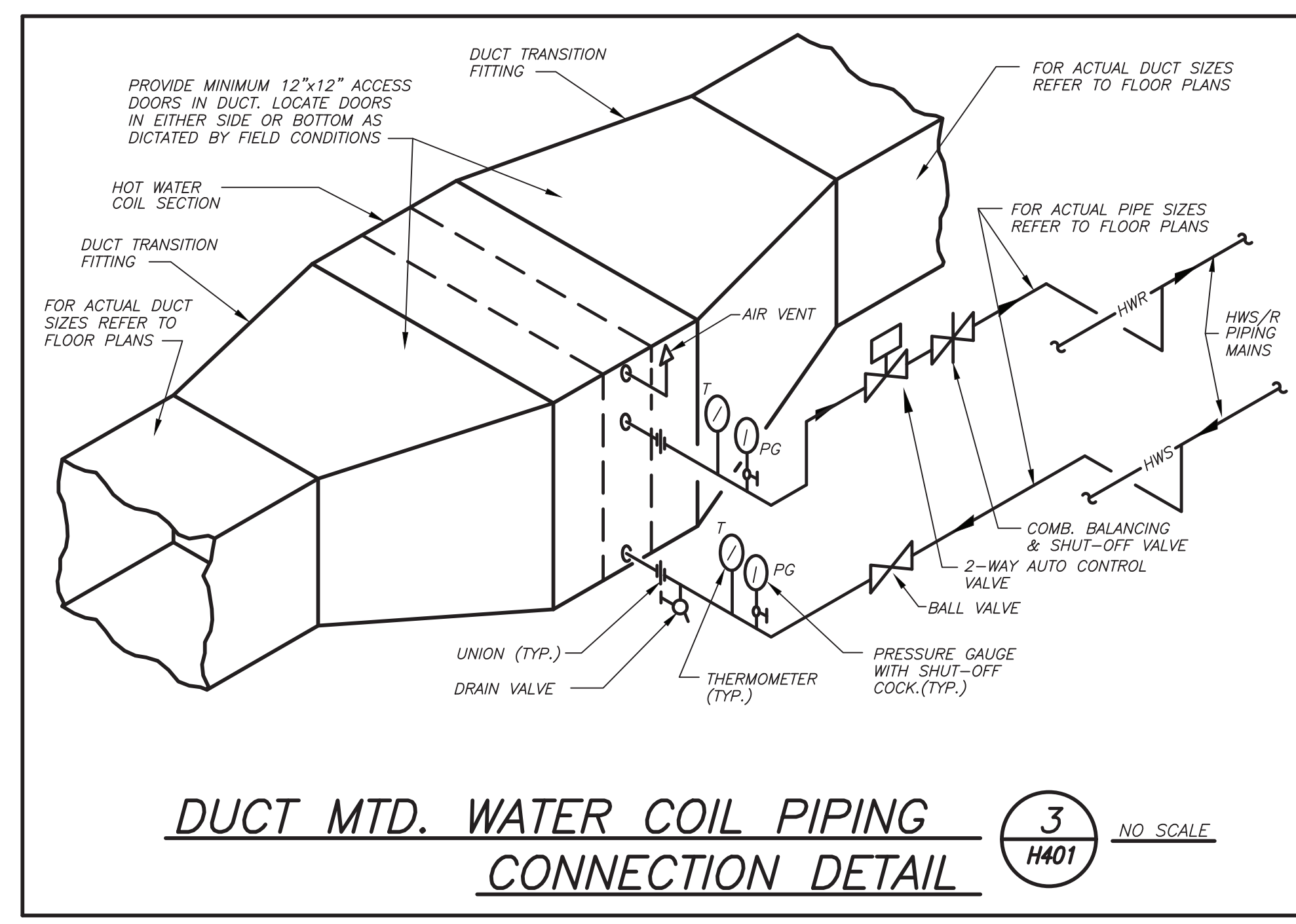
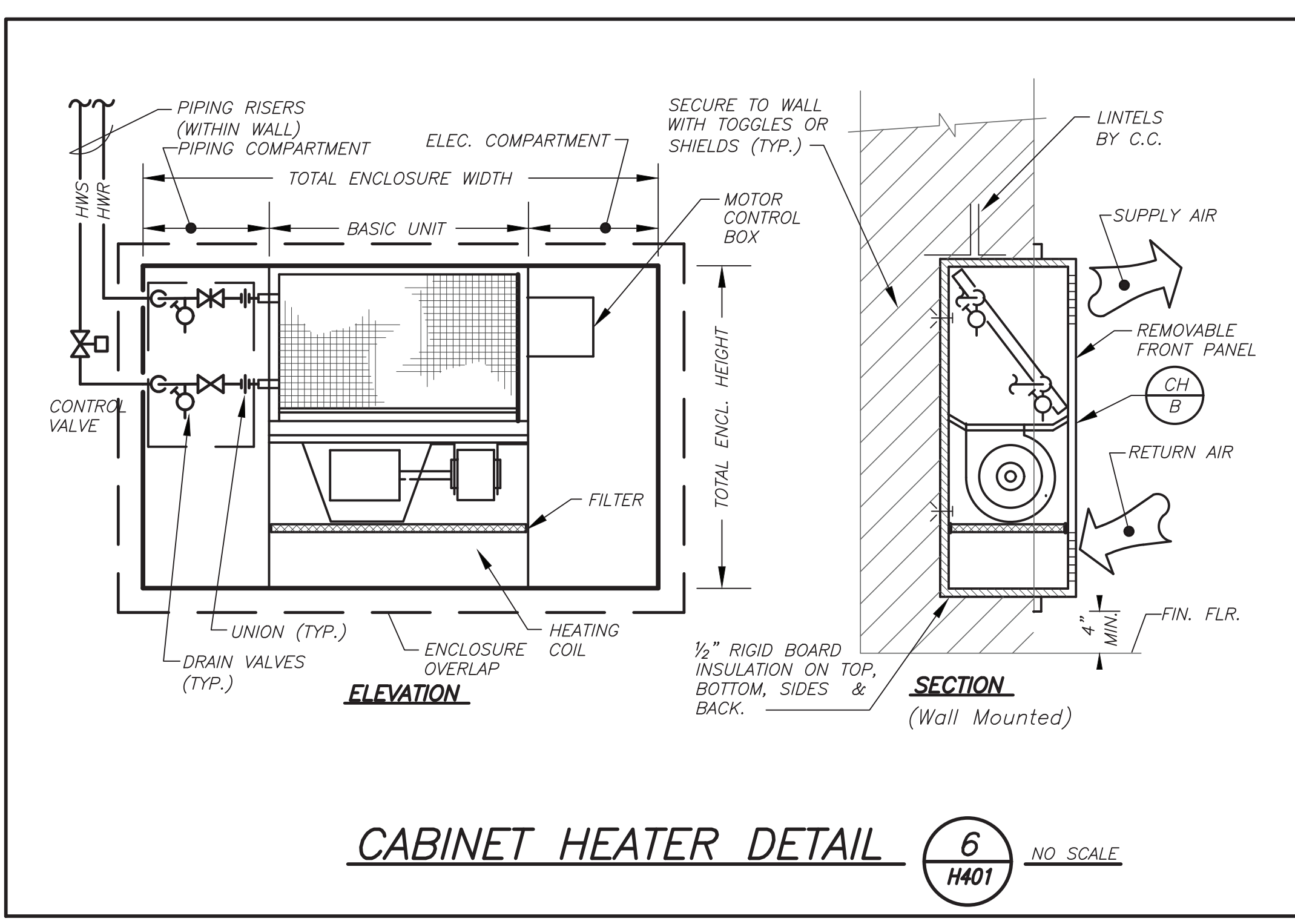
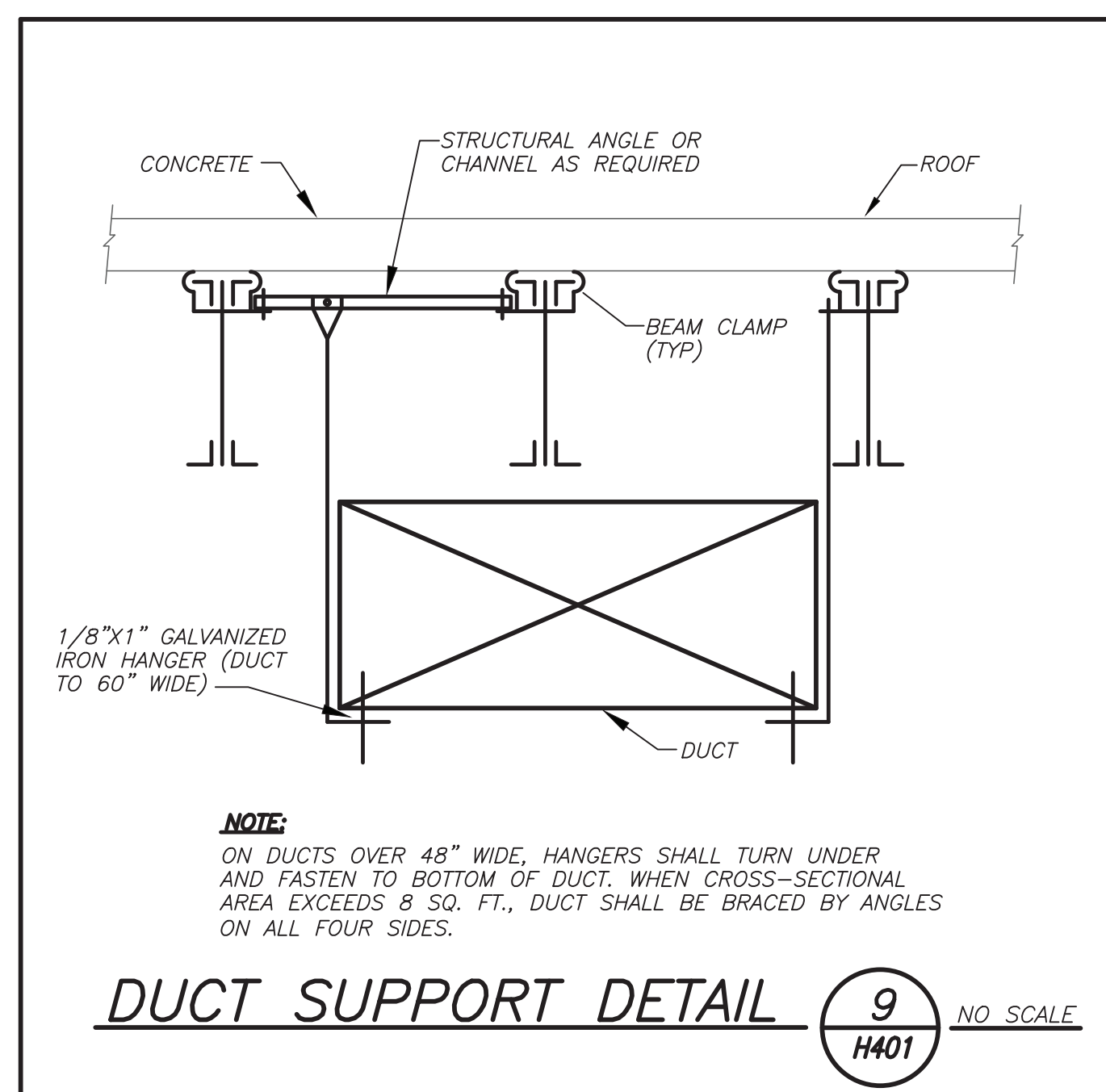
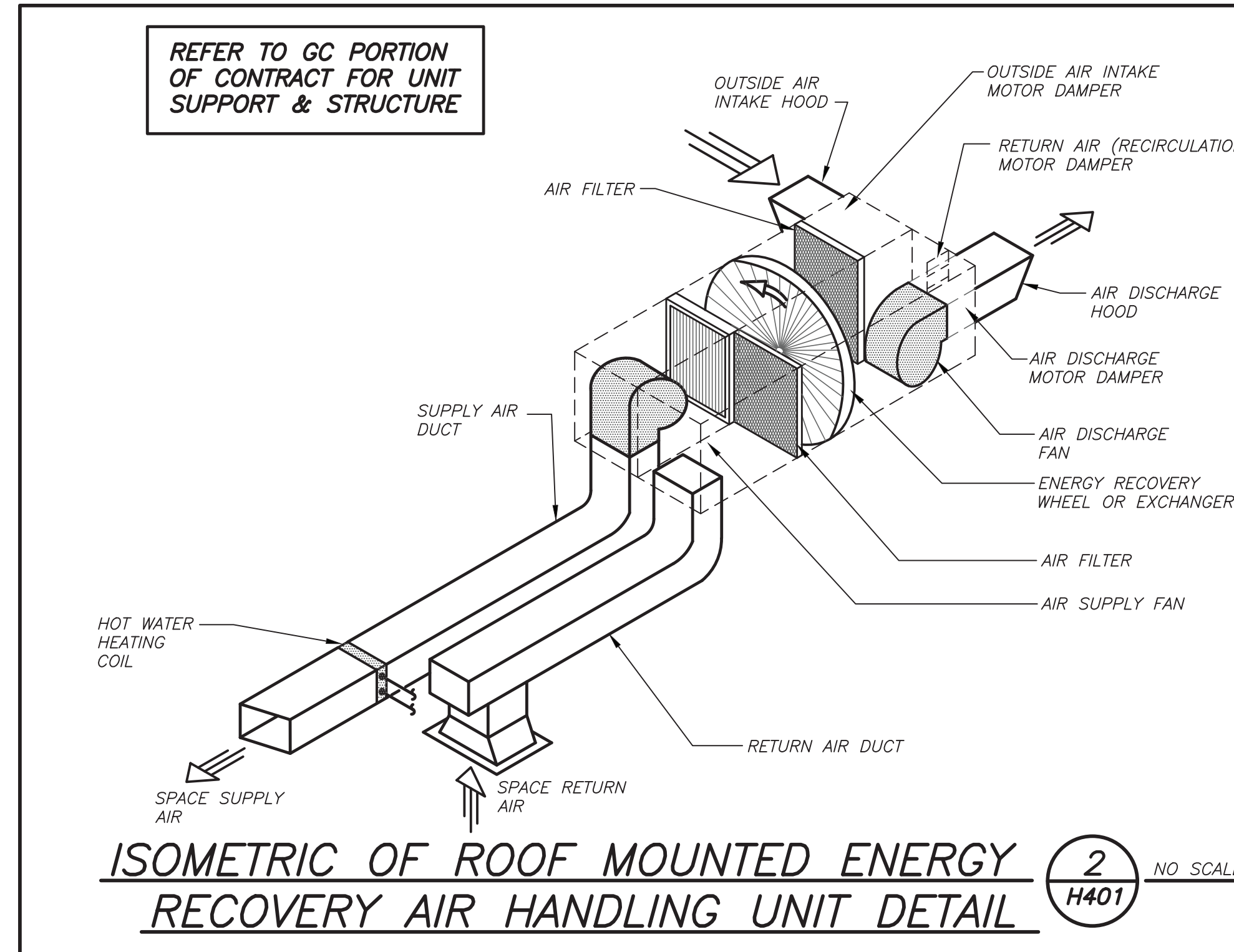
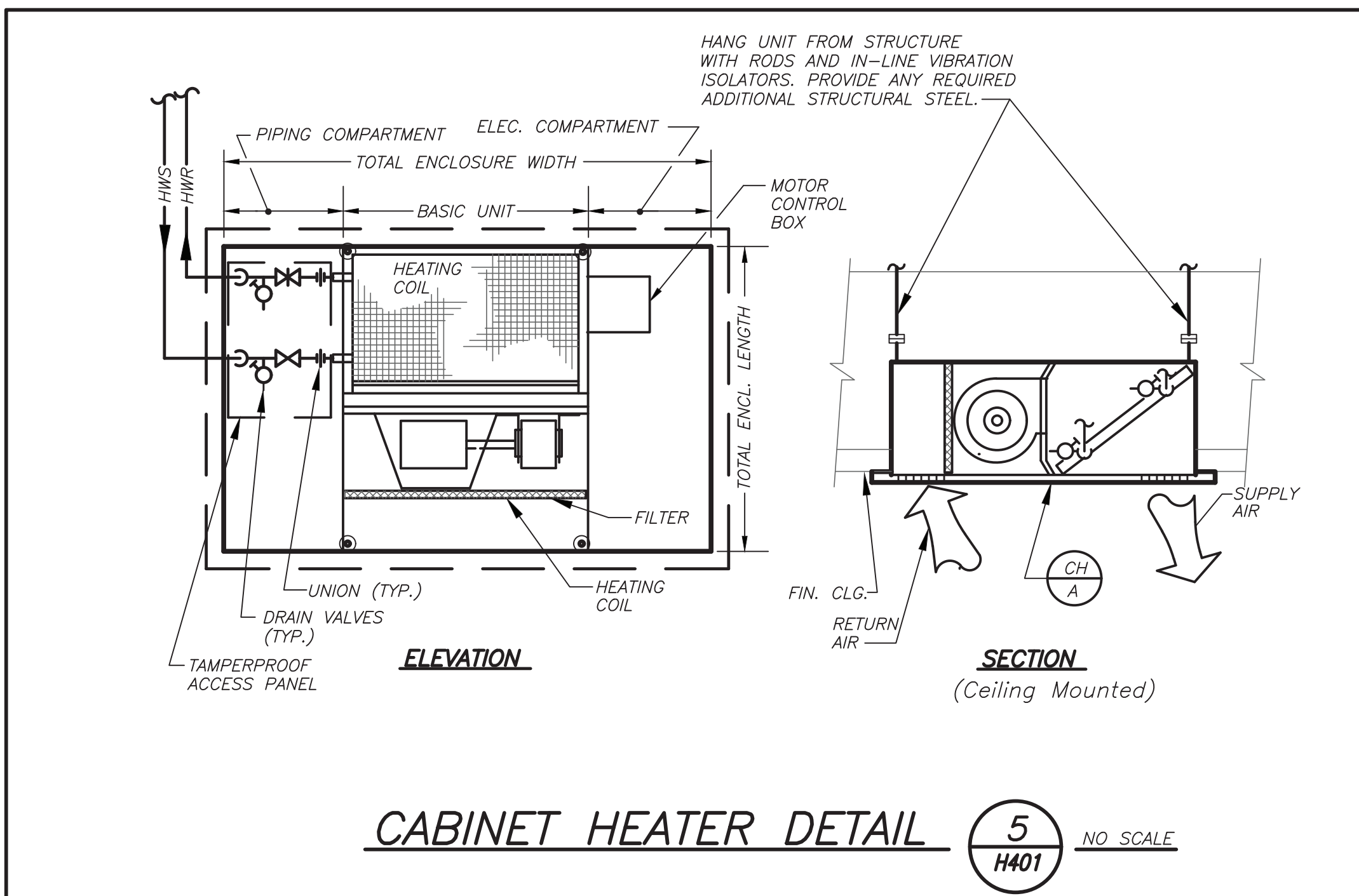
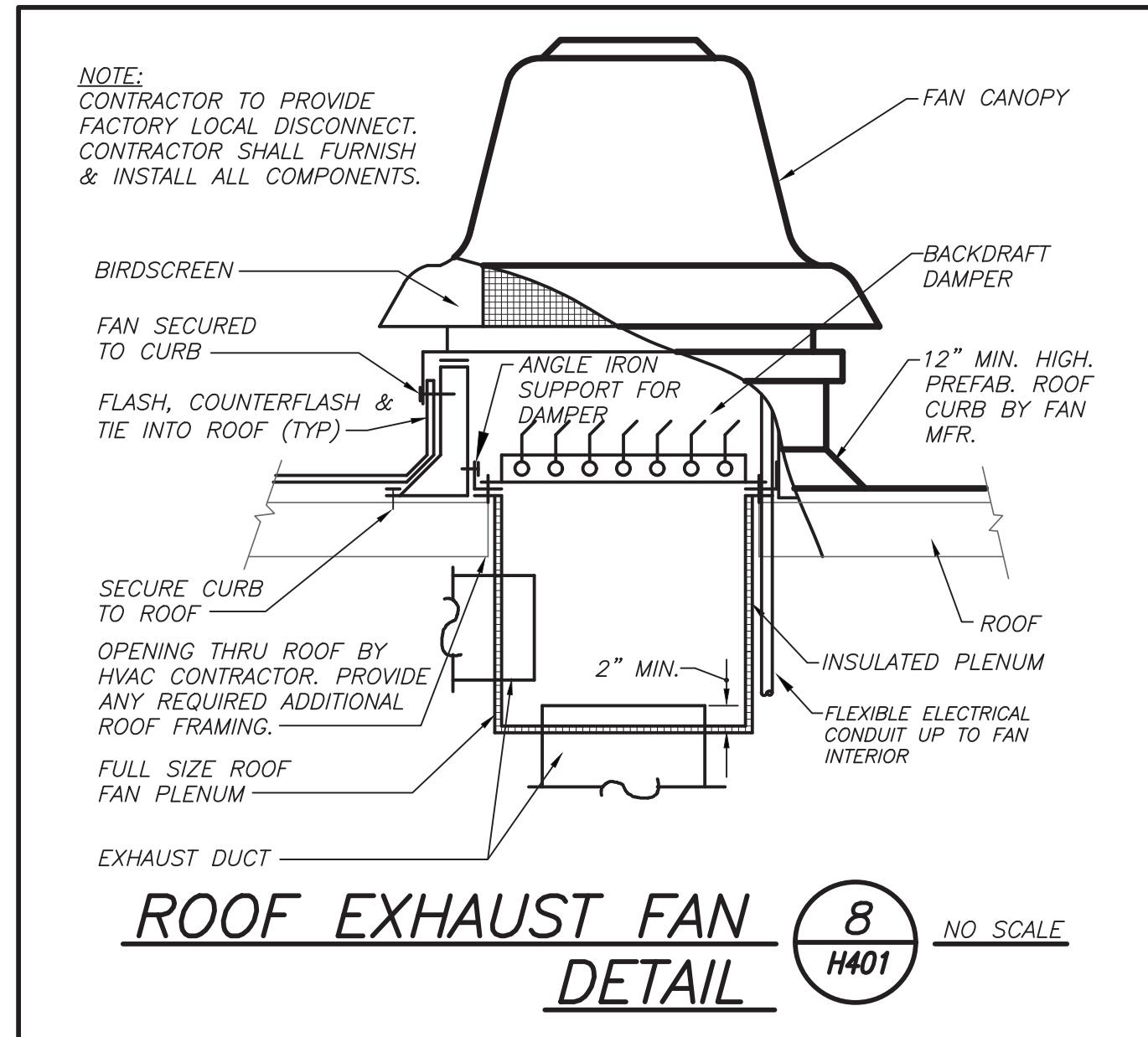
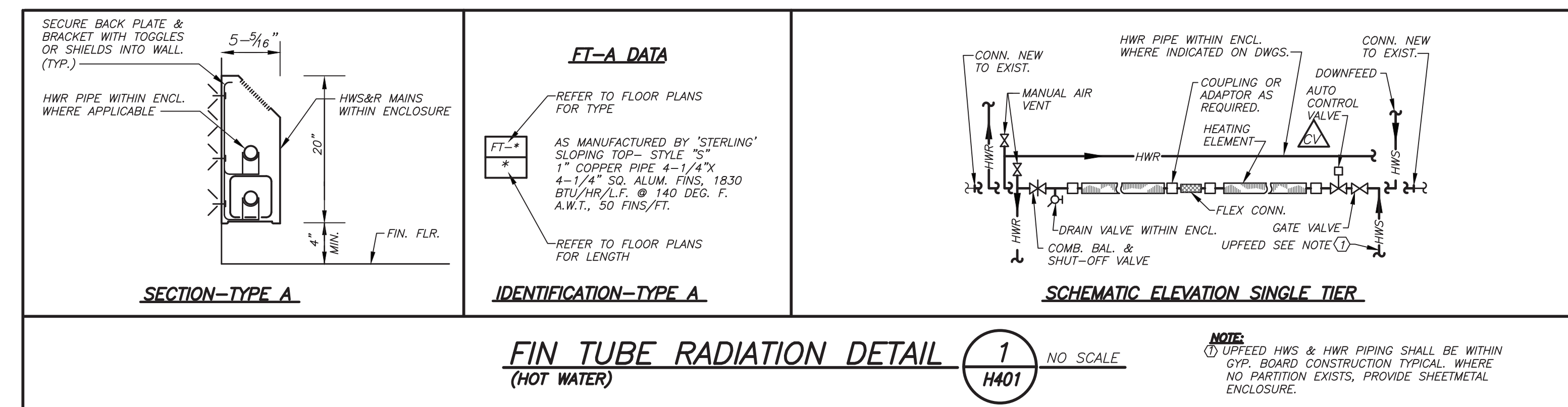
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SED#: 6618-0001-0003-025

PROJECT
Rye City Schools
 555 Theodore Fremd Ave, Suite B-101
Midland Elementary School
 312 Midland Ave, Rye NY 10580

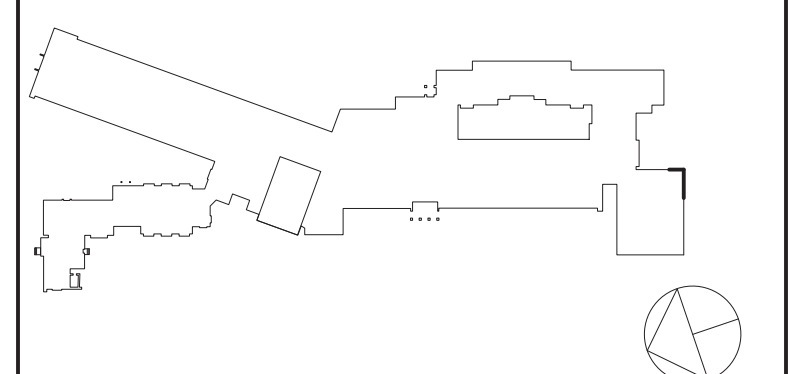
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Revision Schedule

No.	Description	Date
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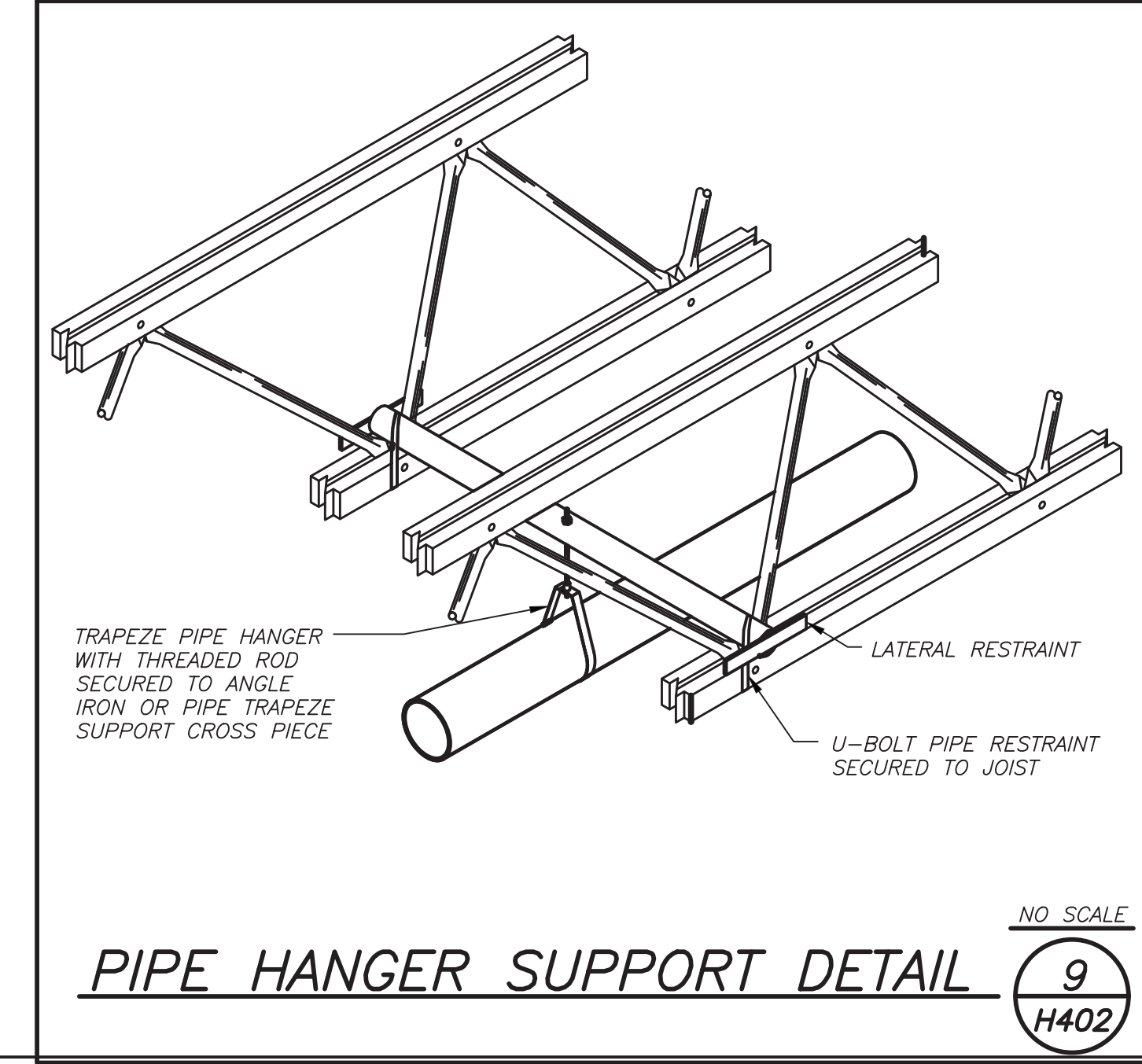
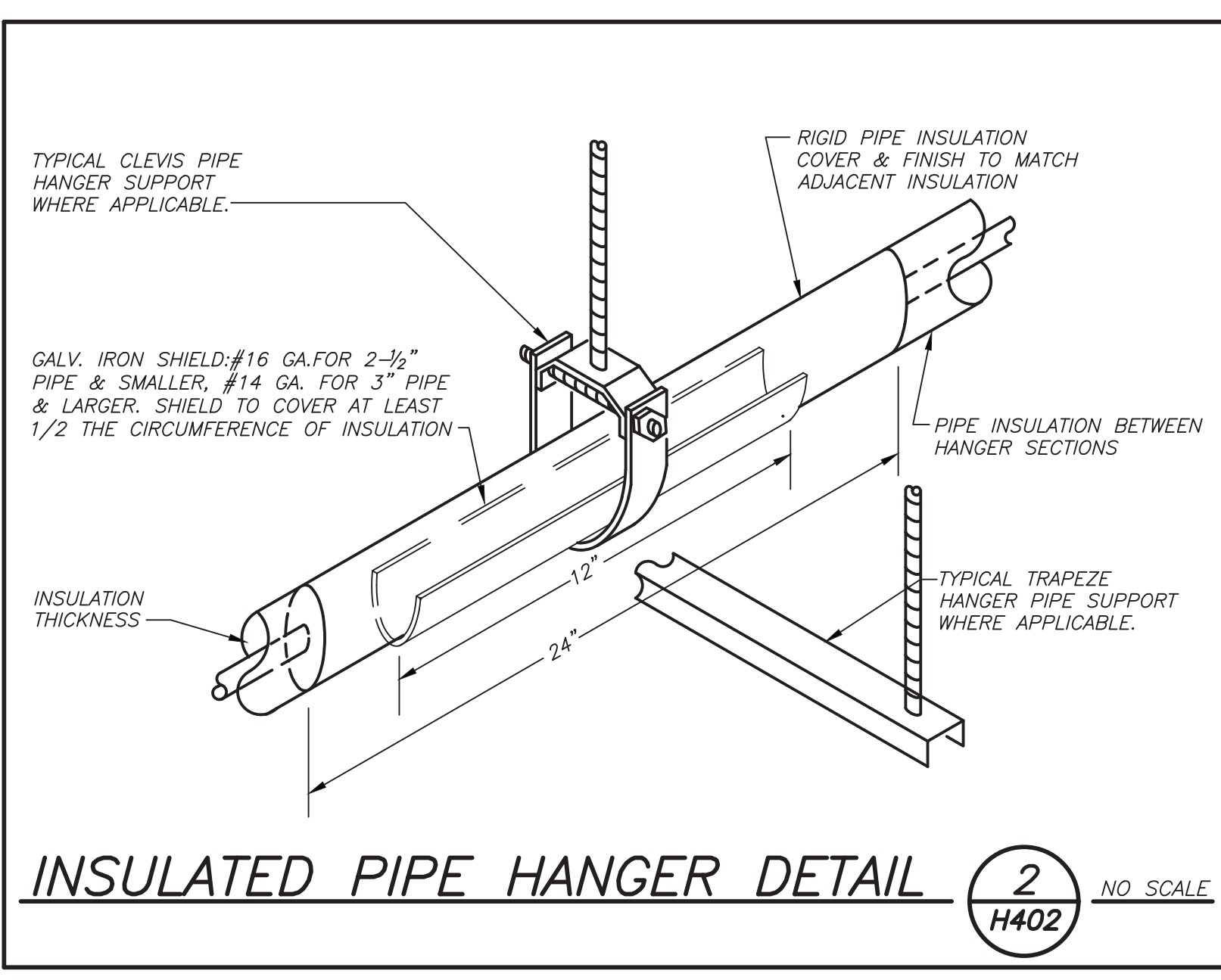
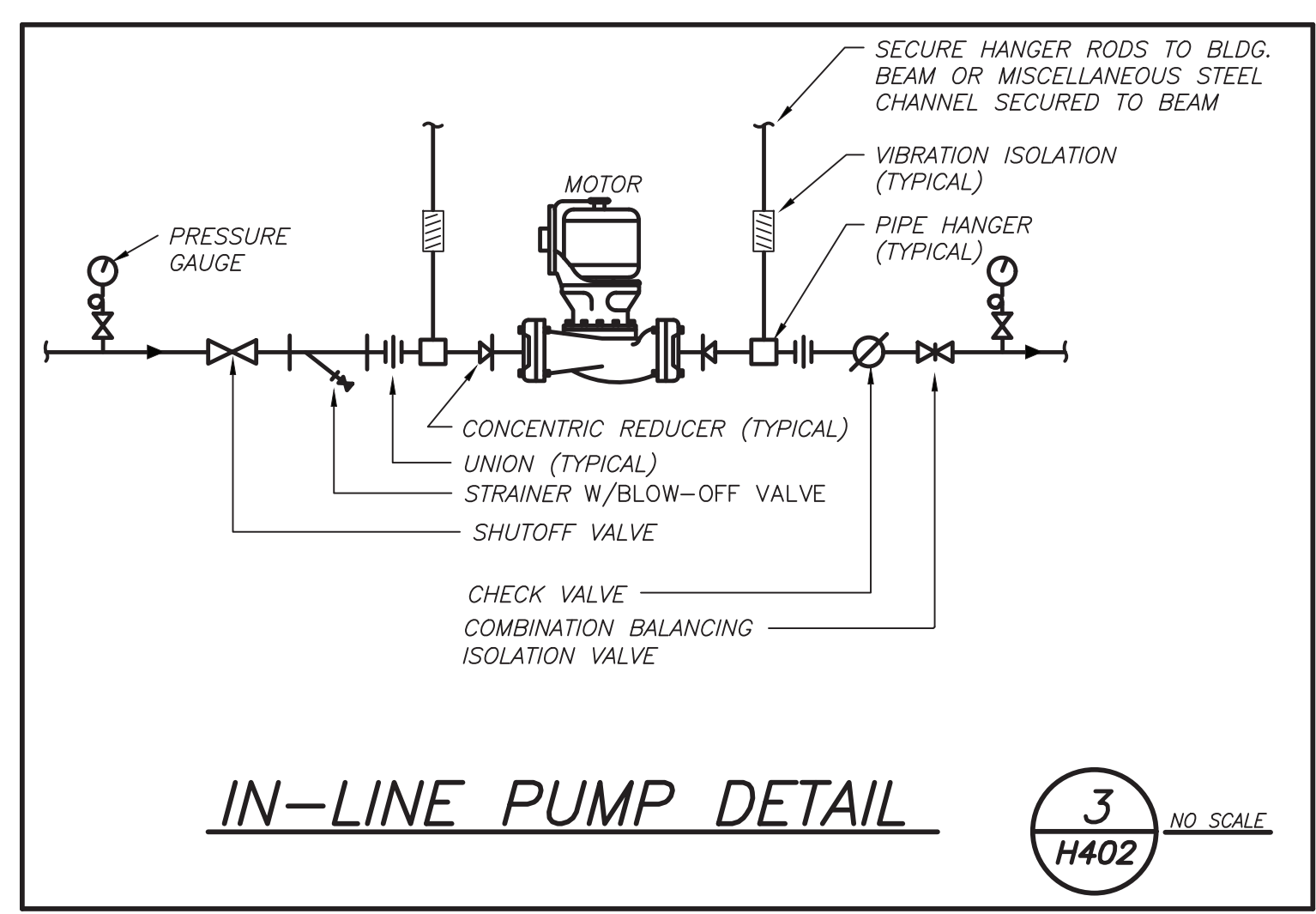
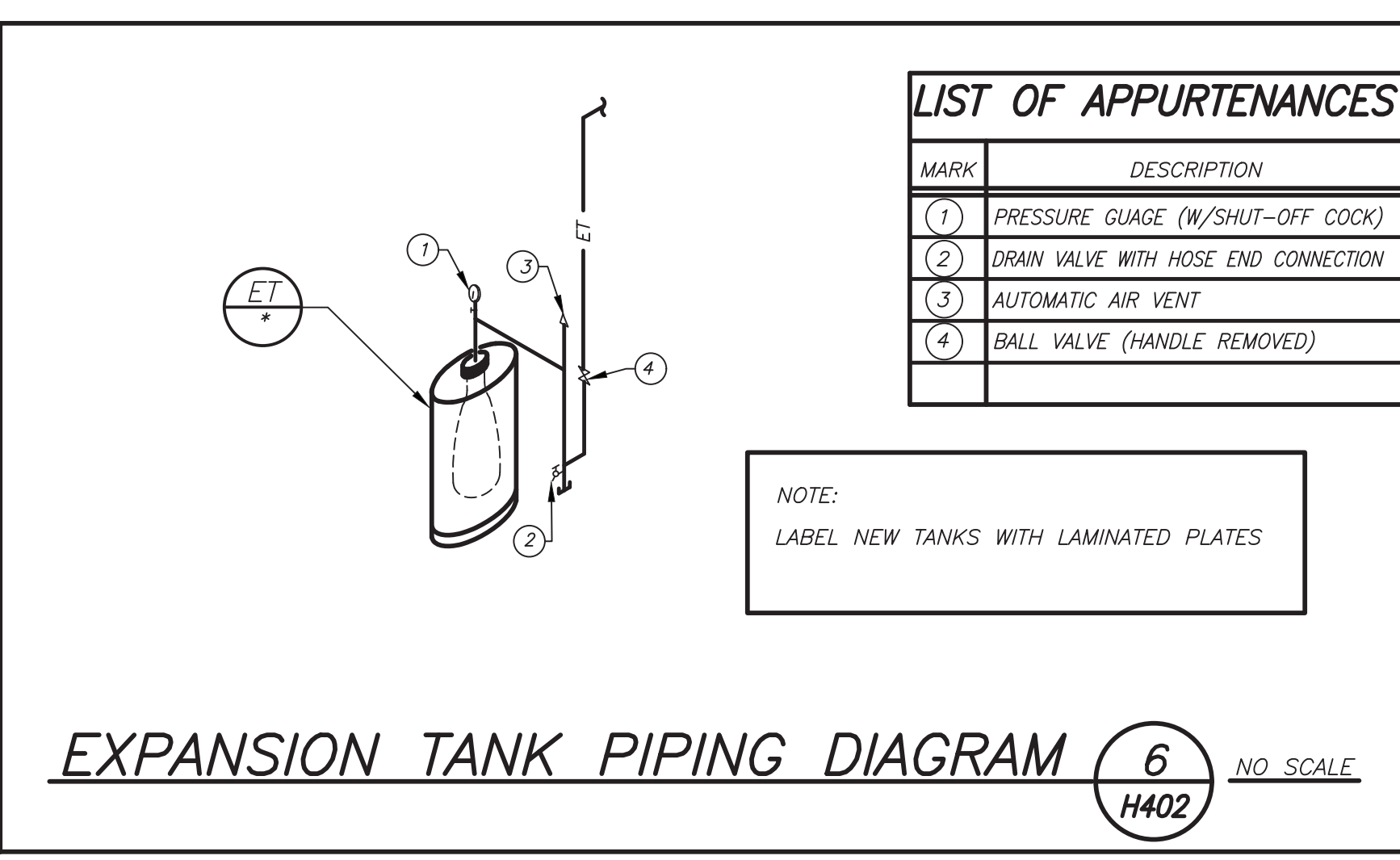
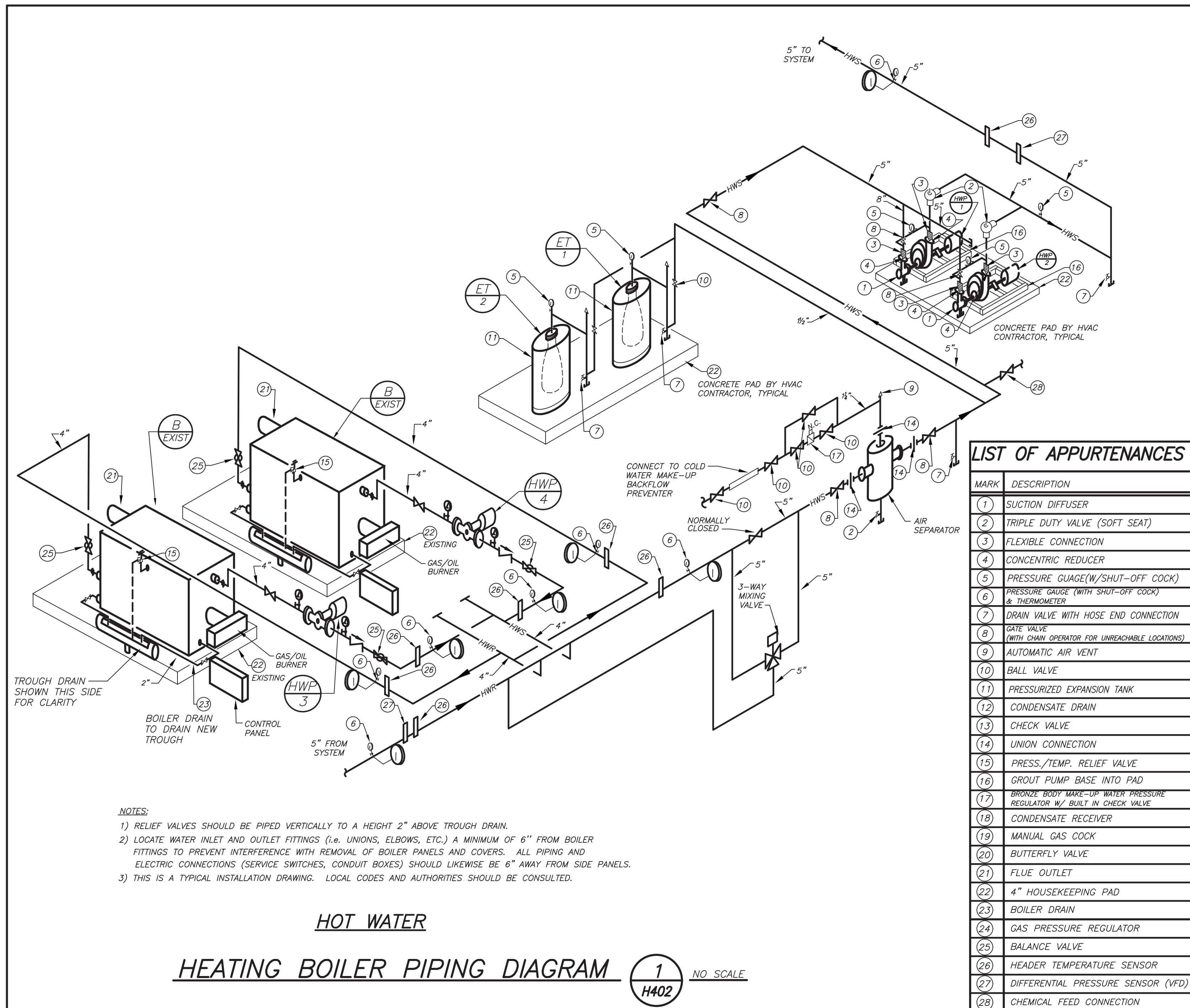
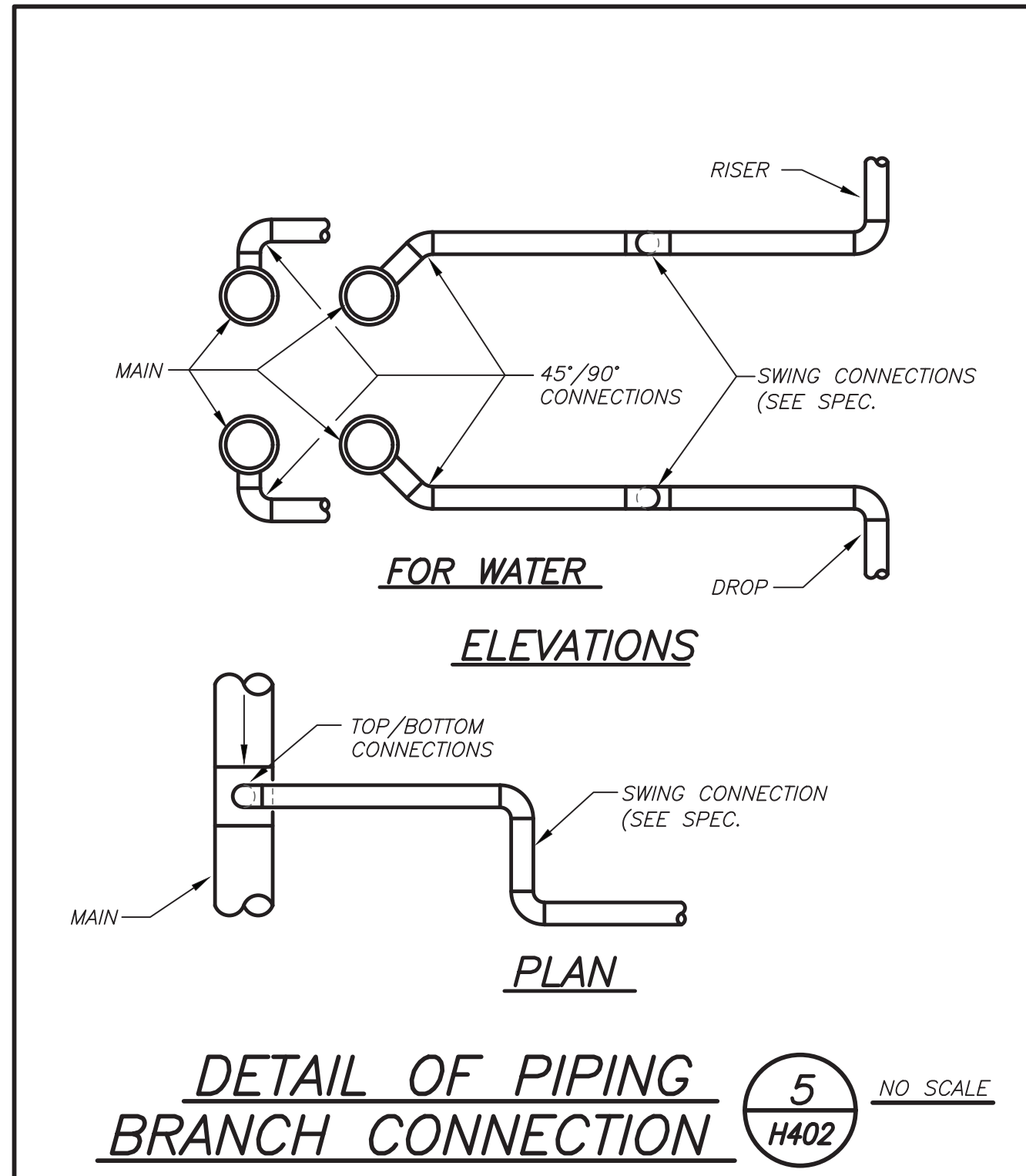
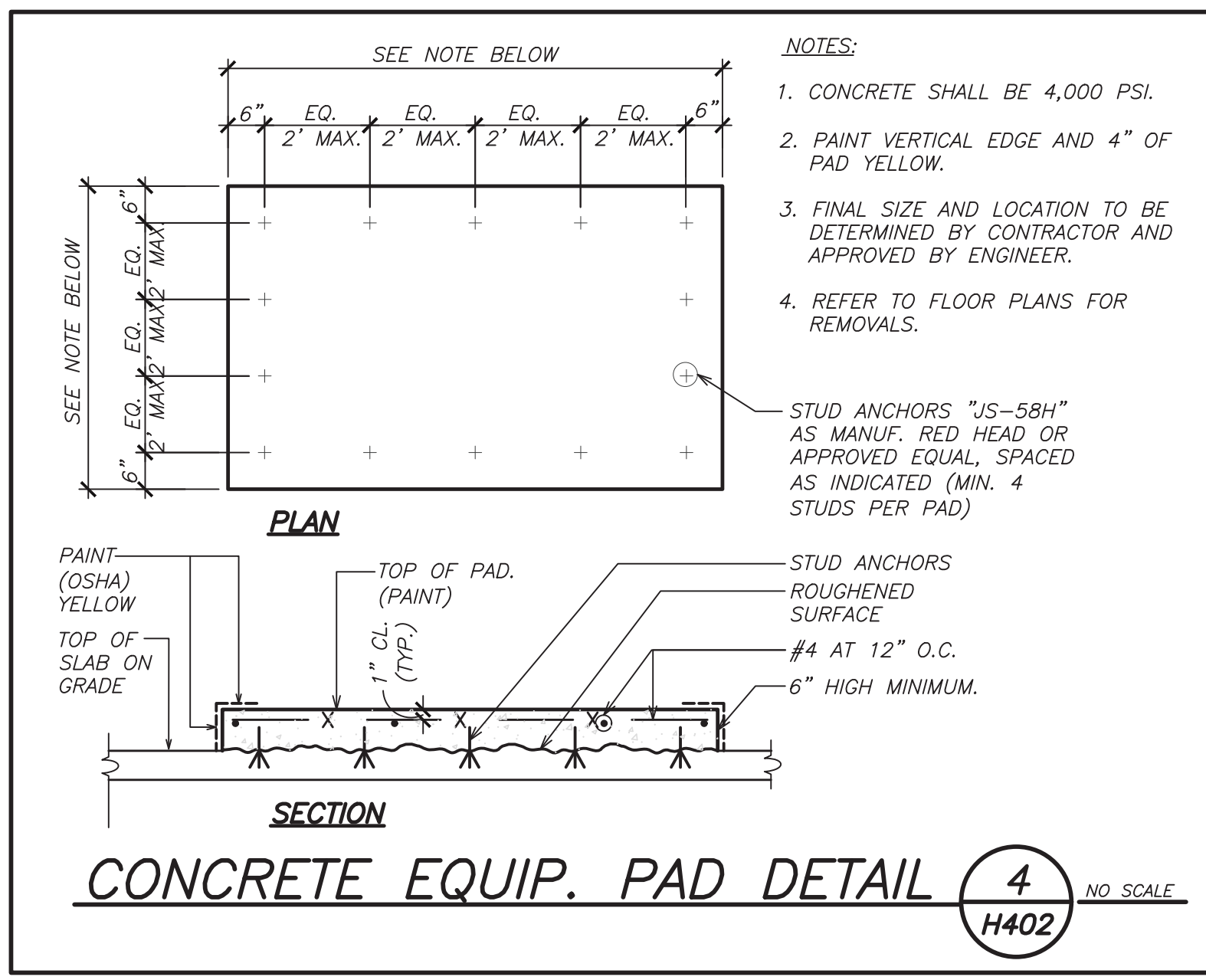
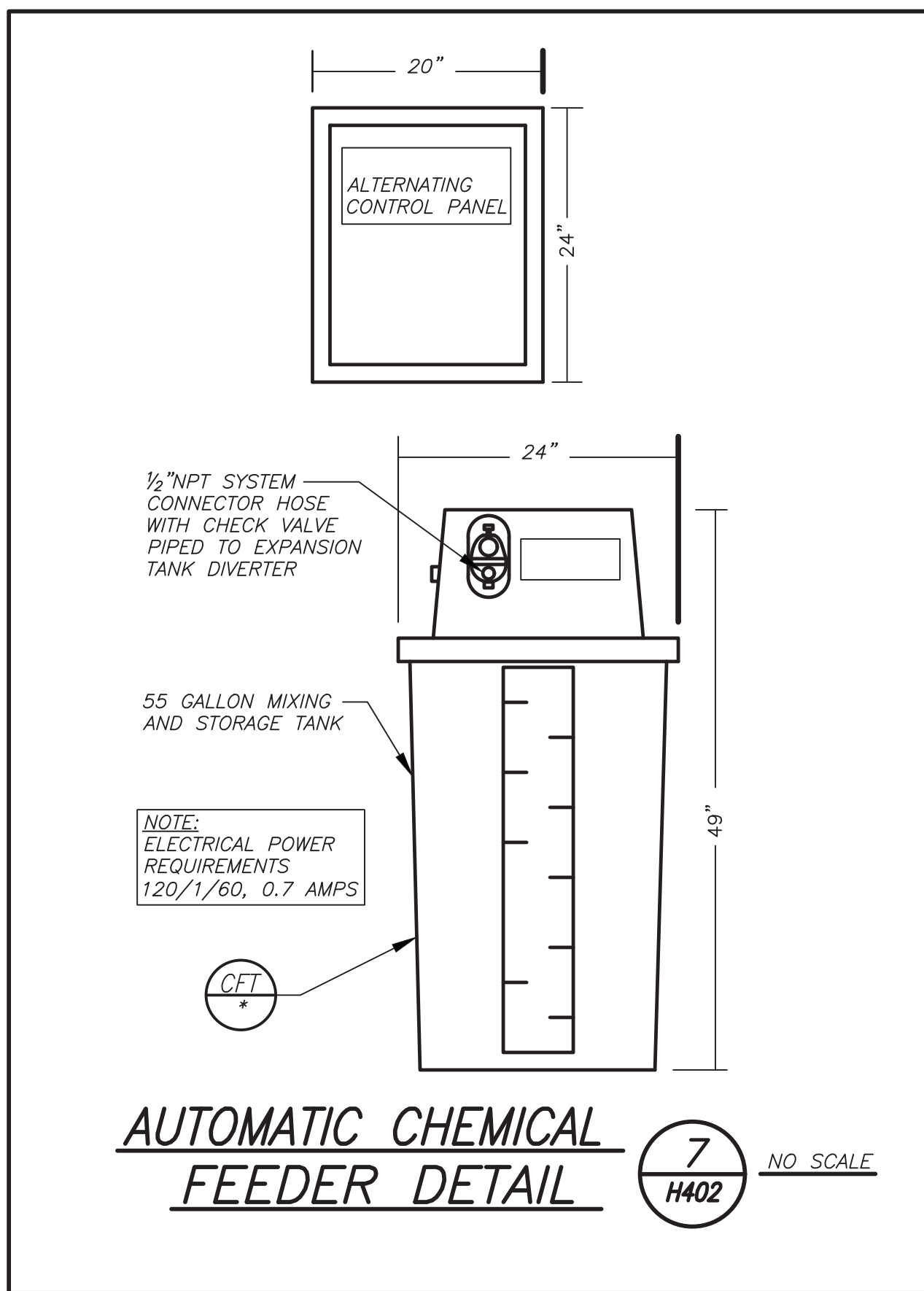
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DETAILS

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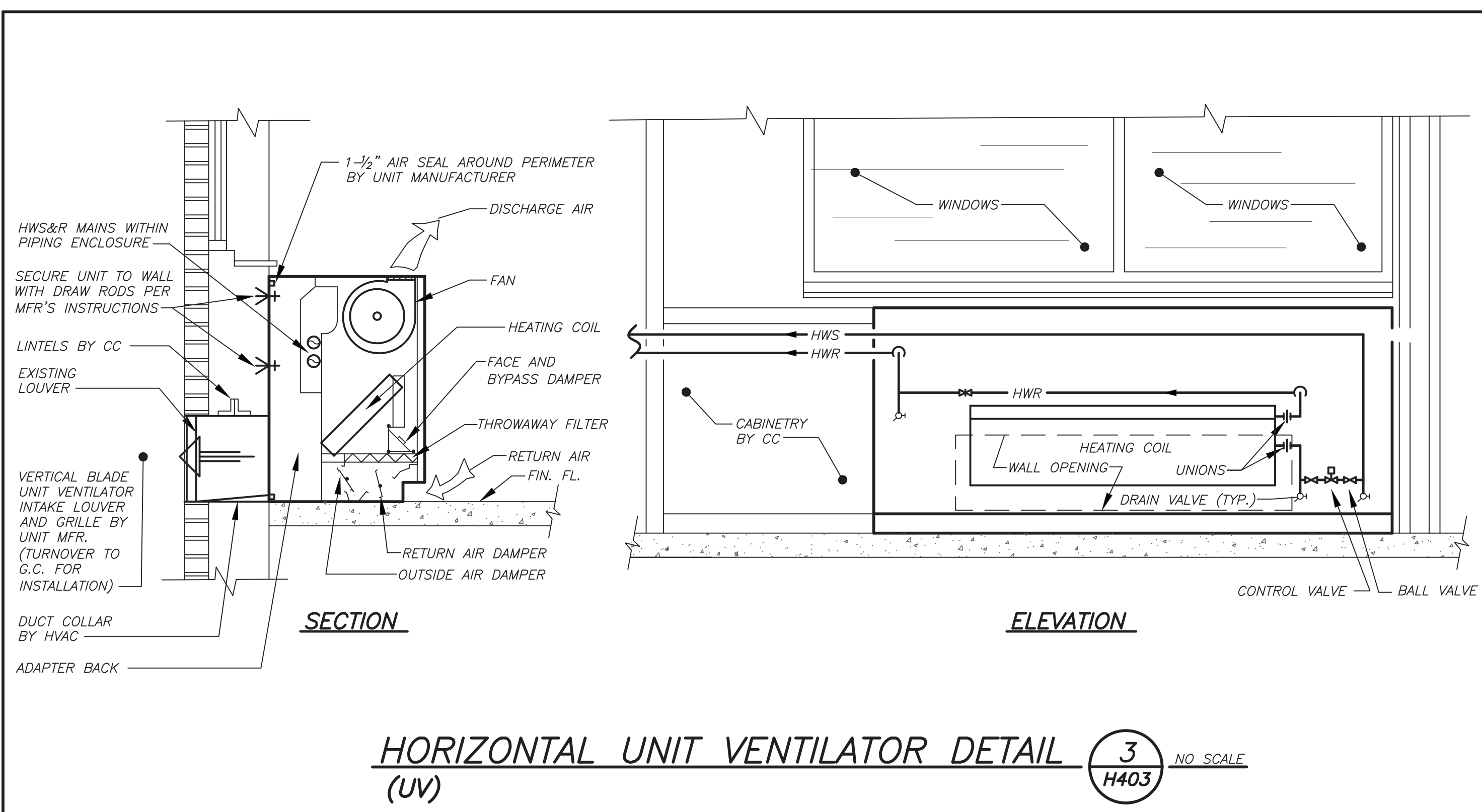
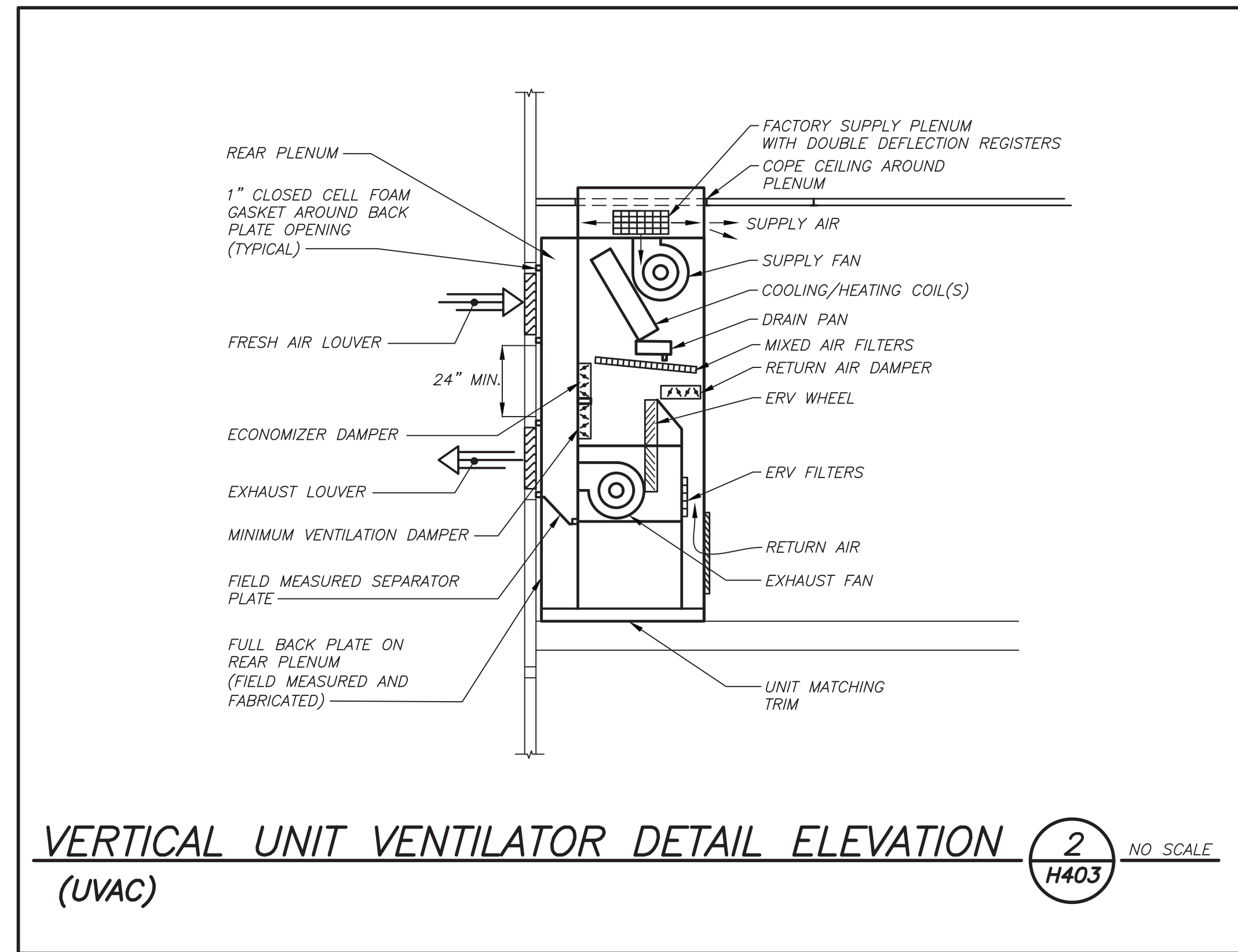
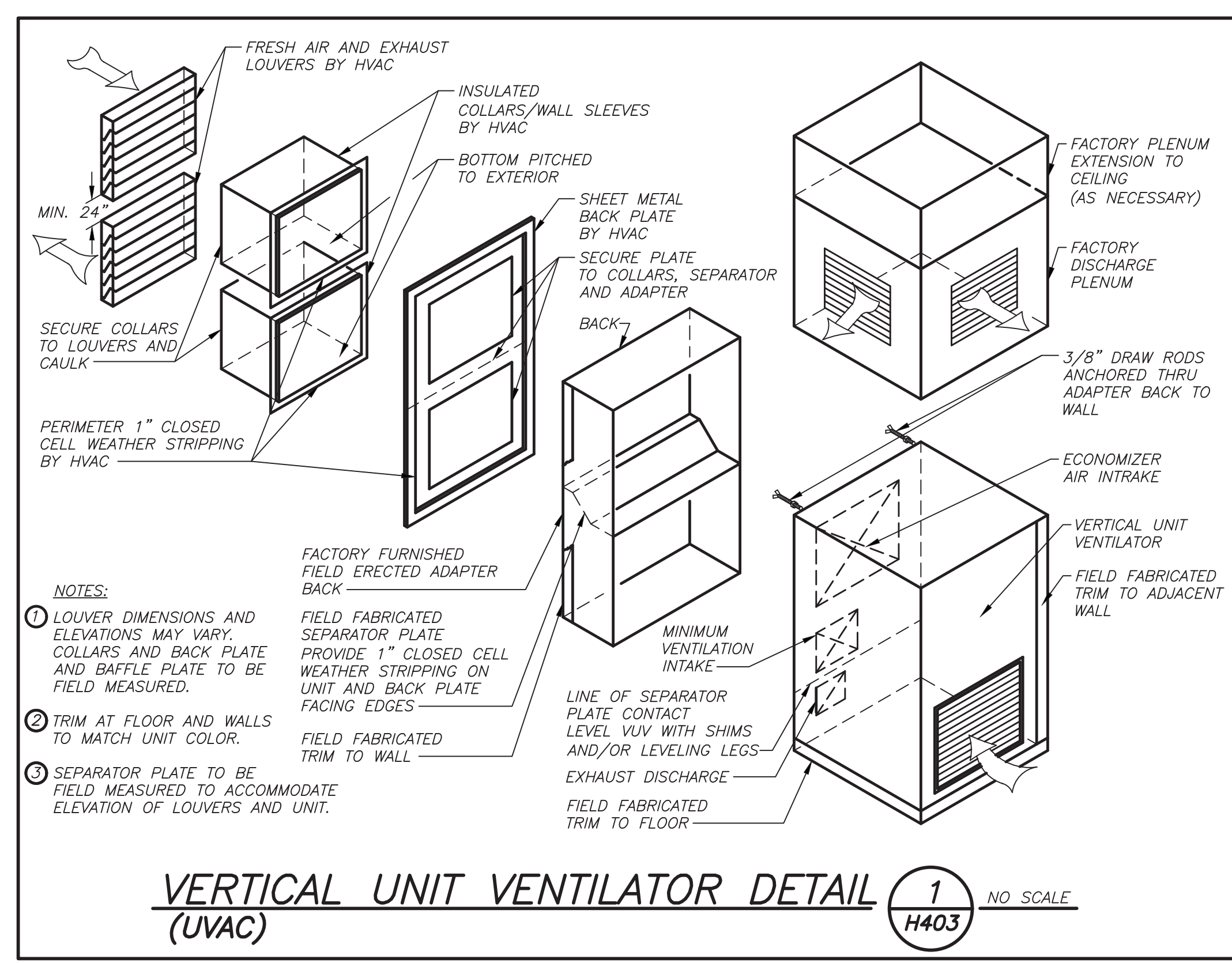
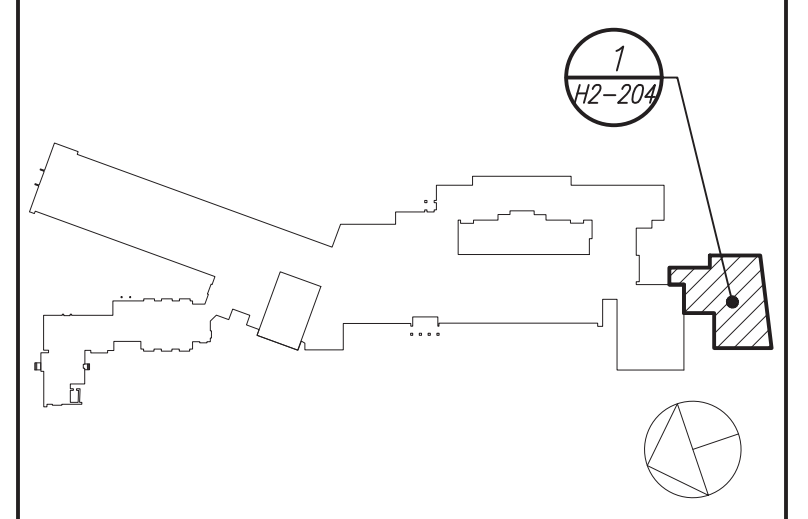
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