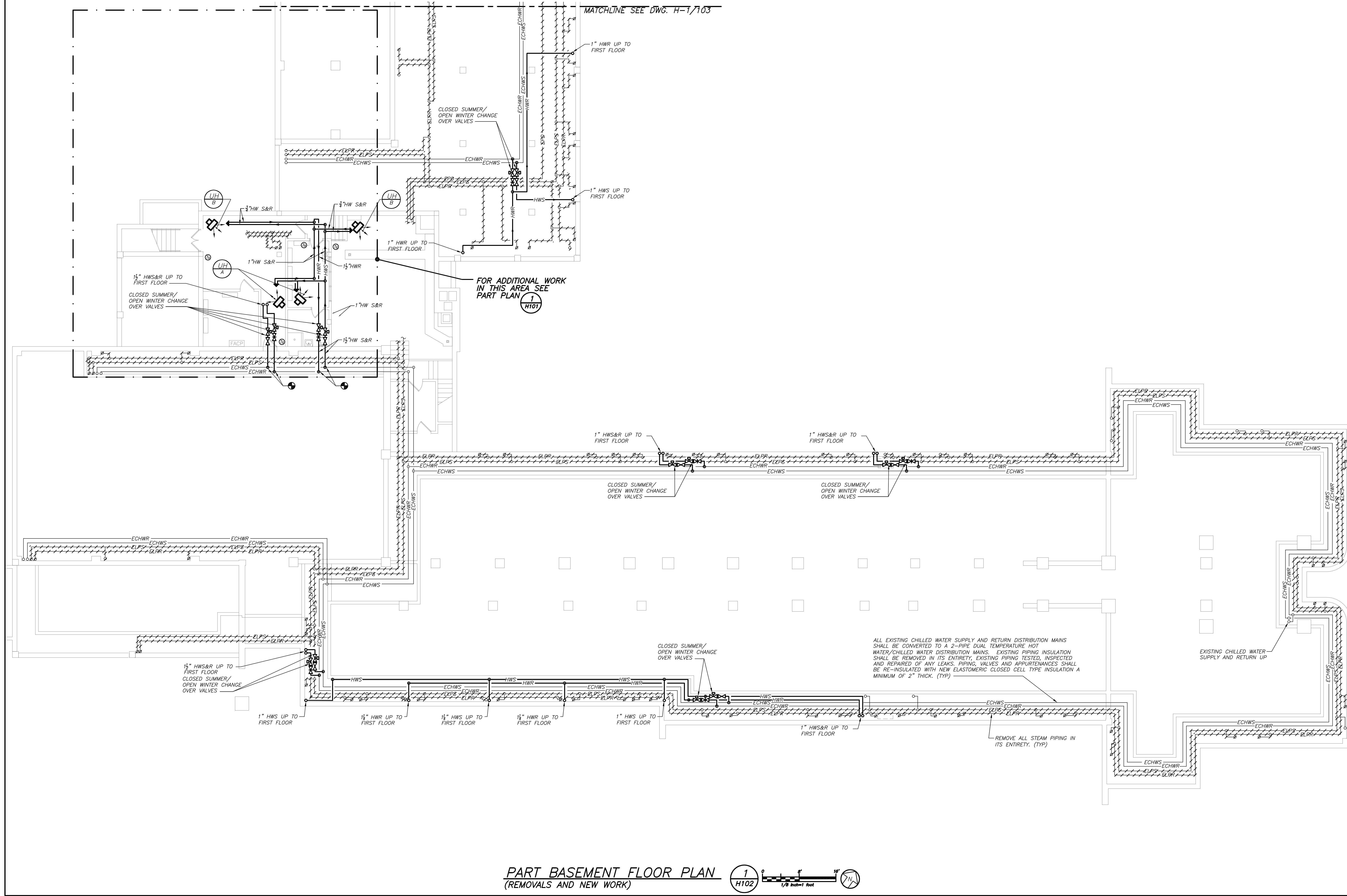
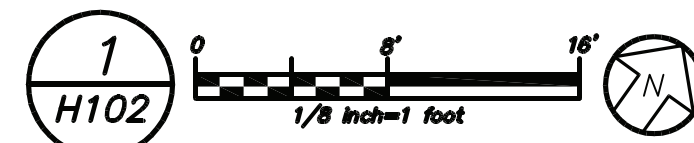




- ### RECURBUSHMENT SCOPE OF WORK:
1. THE CONTRACTOR SHALL PERFORM THE FOLLOWING WORK:
 - A. COMPLETELY CLEAN INSIDE OF UNIT CASING, INCLUDING AIR DAMPERS AND FILTER RACK. AN INSPECTION SHALL BE MADE OF THE SURFACES TO WHICH CIRCULATED AIR MAY BE EXPOSED, TO LOCATE ANY GROWTH OR PRESENCE OF MOLD OR MILDEW. IF SUCH GROWTH IS FOUND, IT SHALL BE CLEANED AWAY AND THE AREA TREATED WITH AN APPROVED NON-TOXIC, NON-ALLERGENIC FUNGICIDE.
 - B. CLEAN FAN WHEELS OF DIRT BUILD-UP.
 - C. CHECK FAN BEARINGS FOR EXCESSIVE WEAR AND REPLACE IF NECESSARY. LUBRICATE.
 - D. REPLACE DRIVE BELT(S), PULLIES, AND ADJUST SHEAVES AS REQUIRED. REPLACE SHEAVES AS NECESSARY TO ACHIEVE REQUIRED CFM QUANTITIES.
 - E. CLEAN COIL(S) DOWN TO BARE METAL. STRAIGHTEN BENT FINS.
 - F. REPLACE FILTERS WITH NEW FILTERS. SIZE SHALL BE APPROPRIATE FOR FILTER RACK.
 - G. FREE-UP AND LUBRICATE MIXED AIR DAMPERS.
 - H. CHECK MOUNTINGS AND HOUSINGS FOR LOOSE PARTS AND REPAIR AS NECESSARY.
 - I. CLEAN ALL DAMPER BLADES AND LUBRICATE SHAFTS.
 - J. REPLACE ALL FLEXIBLE DUCT CONNECTIONS.
 - K. REPLACE ALL DRIVE MOTORS WITH NEW HIGH EFFICIENCY MOTORS. REPLACE MOTOR/STARTER/DISCONNECT SWITCHES AND WIRING.
 - L. REPLACE ALL UNIT VENTILATOR PSC MOTORS WITH ECM MOTORS.
 - M. REPLACE BEARINGS AND BENT/WORN SHAFTS.
 - N. REBALANCE SYSTEMS TO INDICATED PERFORMANCES.
 2. PRODUCTS AND EXECUTION
 - A. BELTS SHALL BE COMMERCIAL QUALITY FOR THEIR USE AND SHALL BE OF PROPER SIZE AND LENGTH TO FIT THE SHEAVES AND DRIVE LENGTH.
 - B. LUBRICANTS SHALL BE COMMERCIAL QUALITY FOR THEIR USE AND SHALL BE OF TYPE AS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER.
 - C. ALL GREASE FITTINGS SHALL BE WIPED CLEAN BEFORE AND AFTER LUBRICATION AND ALL SPILLED LUBRICANT SHALL BE CLEANED UP.
 - D. BELT TENSION SHALL BE ADJUSTED TO MANUFACTURER'S RECOMMENDED TENSION AND PER INDUSTRY PRACTICE.

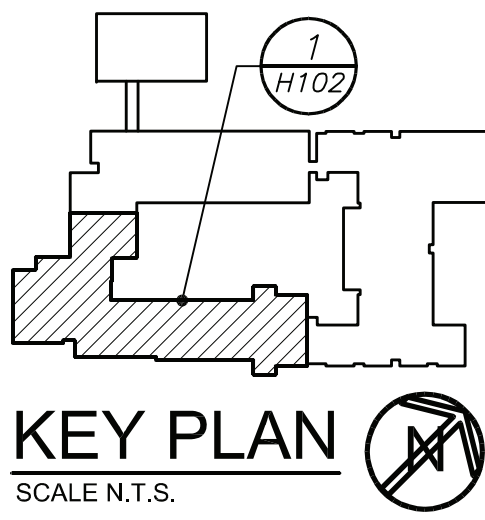


PART BASEMENT FLOOR PLAN
(REMOVALS AND NEW WORK)



CONDENSATE DRAIN NOTE:

EXISTING UNIT VENTILATOR CONDENSATE DRAIN PIPING MAINS IN CRAWL SPACE SHALL BE TESTED, INSPECTED, REPAIRED OF ANY LEAKS AND COMPLETELY RE-INSULATED. ONE EXISTING CONDENSATE PUMP LOCATED IN PIPE TUNNEL SHALL BE FIELD IDENTIFIED FOR SIZE AND CAPACITY AND REPLACED IN-KIND (BASE UNIT SIZE TO LITTLE GIANT MODEL VCL-24ULS)



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FULLER DANIELO P.C.
ARCHITECTS PLANNERS

S.E.D. CONTROL NUMBER:
66-23-00-01-0-029-012

YPS JOB # 10878

PROJECT: YONKERS SCHOOL DISTRICT
PS 29 BOILER REPLACEMENT HVAC UPGRADES & ASBESTOS ABATEMENT
47 CROFTON ROAD, YONKERS, NY 10710
DRAWING TITLE:
PART BASEMENT CRAWL SPACE AND PIPE TUNNEL PLAN

10-21-2022	BID
11-06-2020	100% C.D. SUBMISSION
06-01-2020	100% D.D. SUBMISSION
05-01-2020	50% D.D. SUBMISSION
DATE	ISSUED TO
SHEET SIZE: 30"x42"	DRAWING NO. H102
SCALE: AS NOTED	FILE NO. 19359.00
DRAWN BY: BGA	

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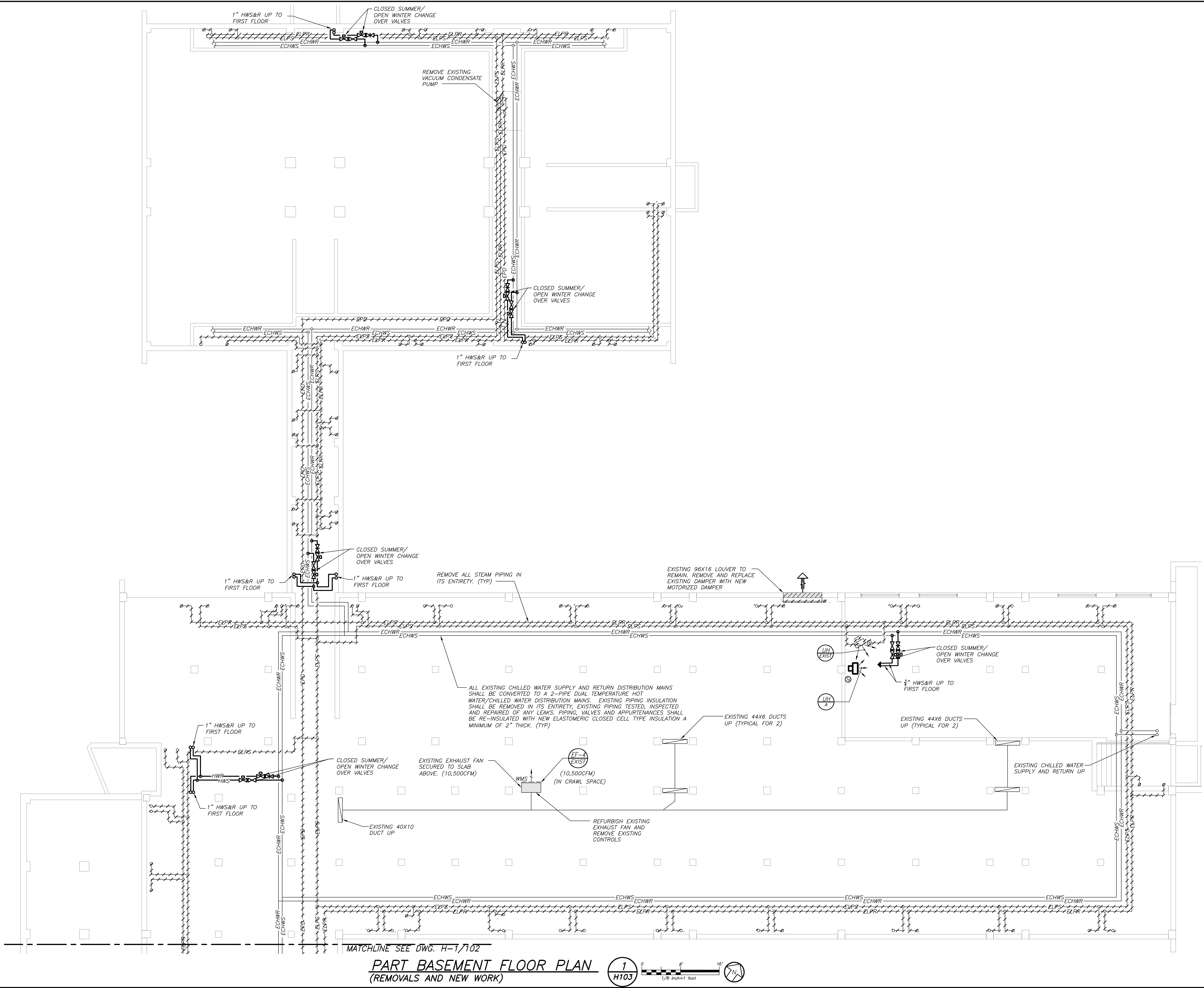
S.E.D. CONTROL NUMBER:
66-23-00-01-0-029-012

YPS JOB # 10878

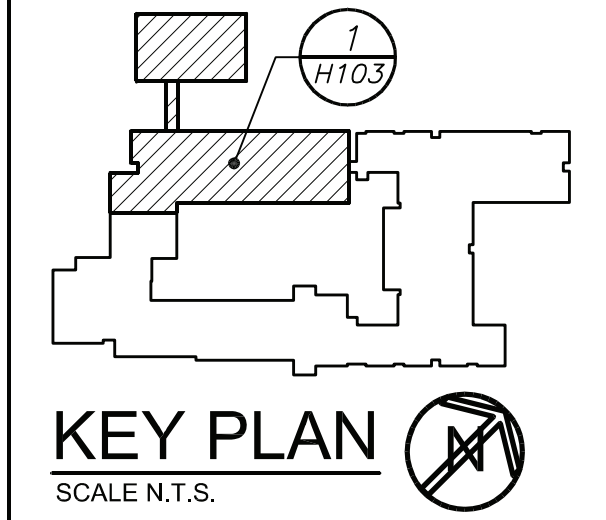
PROJECT:
YONKERS SCHOOL DISTRICT
PS 29 BOILER REPLACEMENT HVAC UPGRADES &
ASBESTOS ABATEMENT
47 CROFTON ROAD, YONKERS, N.Y. 10710

DRAWING TITLE:
PART BASEMENT CRAWL SPACE AND
PIPE TUNNEL PLAN

10-21-2022	BID
11-06-2020	100% C.D. SUBMISSION
06-01-2020	100% D.D. SUBMISSION
05-01-2020	50% D.D. SUBMISSION
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SCALE: AS NOTED	FILE NO. 19359.00
DRAWN BY: BGA	

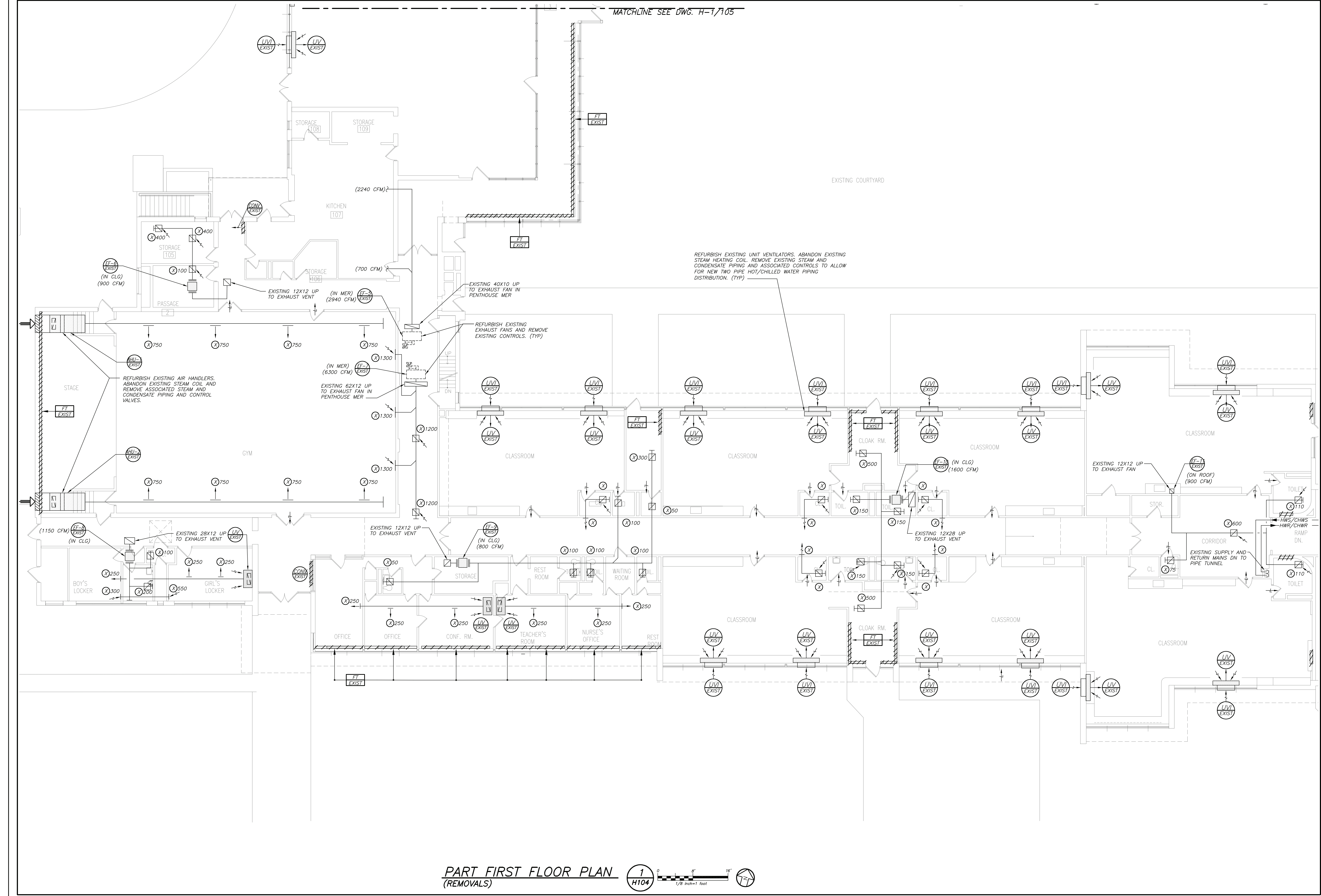


CONDENSATE DRAIN NOTE:
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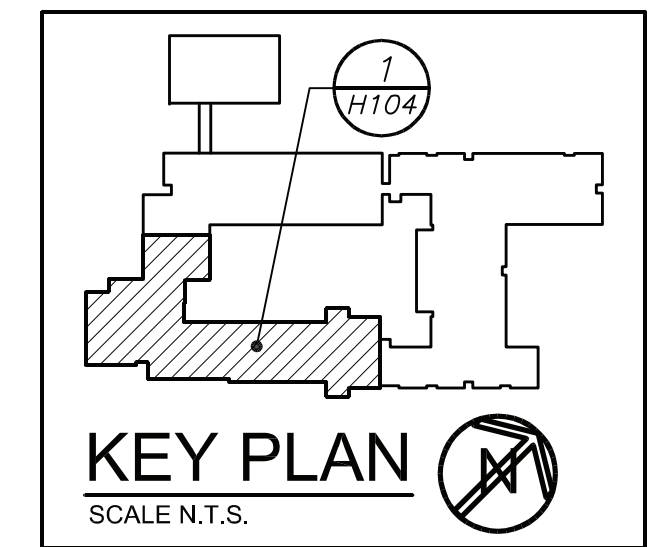
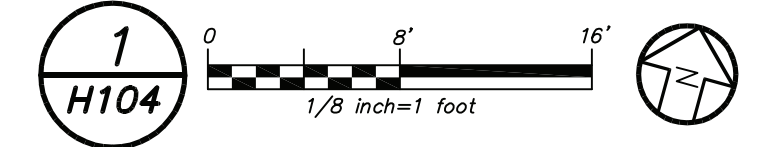


FILE: Y:\YONKERS PUBLIC SCHOOLS\YPS - School 29 - Ph 2 - Boilers, HVAC, Windows & Asbestos Abatement (2242.00)\Drawings\HVAC\224200H104.dwg

PLOT DATE: October 20, 2022 1:04pm



PART FIRST FLOOR PLAN (REMOVALS)



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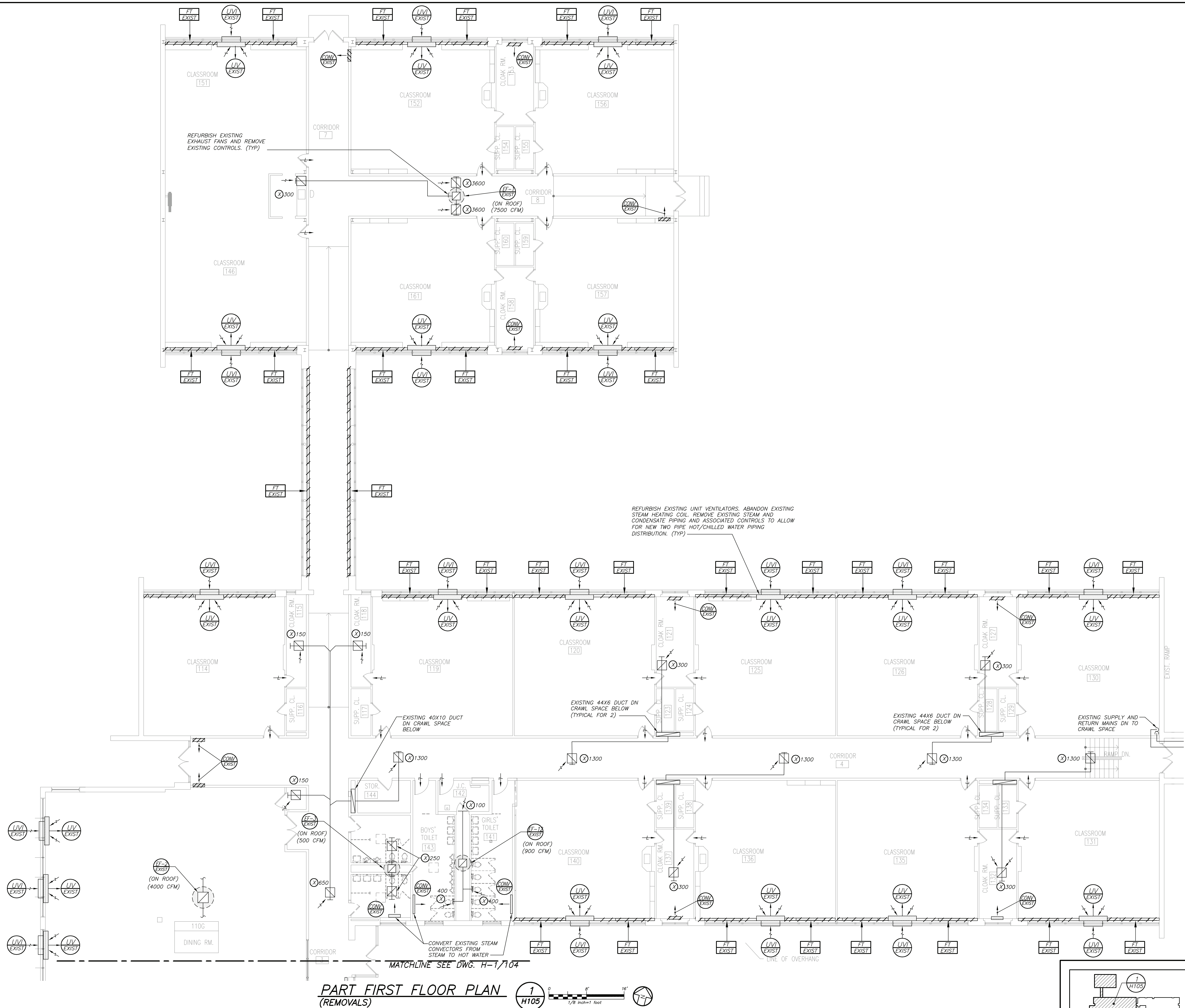
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S.E.D. CONTROL NUMBER:
66-23-00-01-0-029-012

YPS JOB # 10878

PROJECT: YONKERS SCHOOL DISTRICT
PS 29 BOILER REPLACEMENT HVAC UPGRADES & ASBESTOS ABATEMENT
47 CROFTON ROAD, YONKERS, N.Y. 10710
DRAWING TITLE: PART FIRST FLOOR PLAN

10-21-2022	BID
11-06-2020	100% C.D. SUBMISSION
06-01-2020	100% D.D. SUBMISSION
05-01-2020	50% D.D. SUBMISSION
DATE	ISSUED TO
SHEET SIZE: 30"x42"	DRAWING NO. H104
SCALE: AS NOTED	DRAWN BY: BGA
FILE NO. 19359.00	



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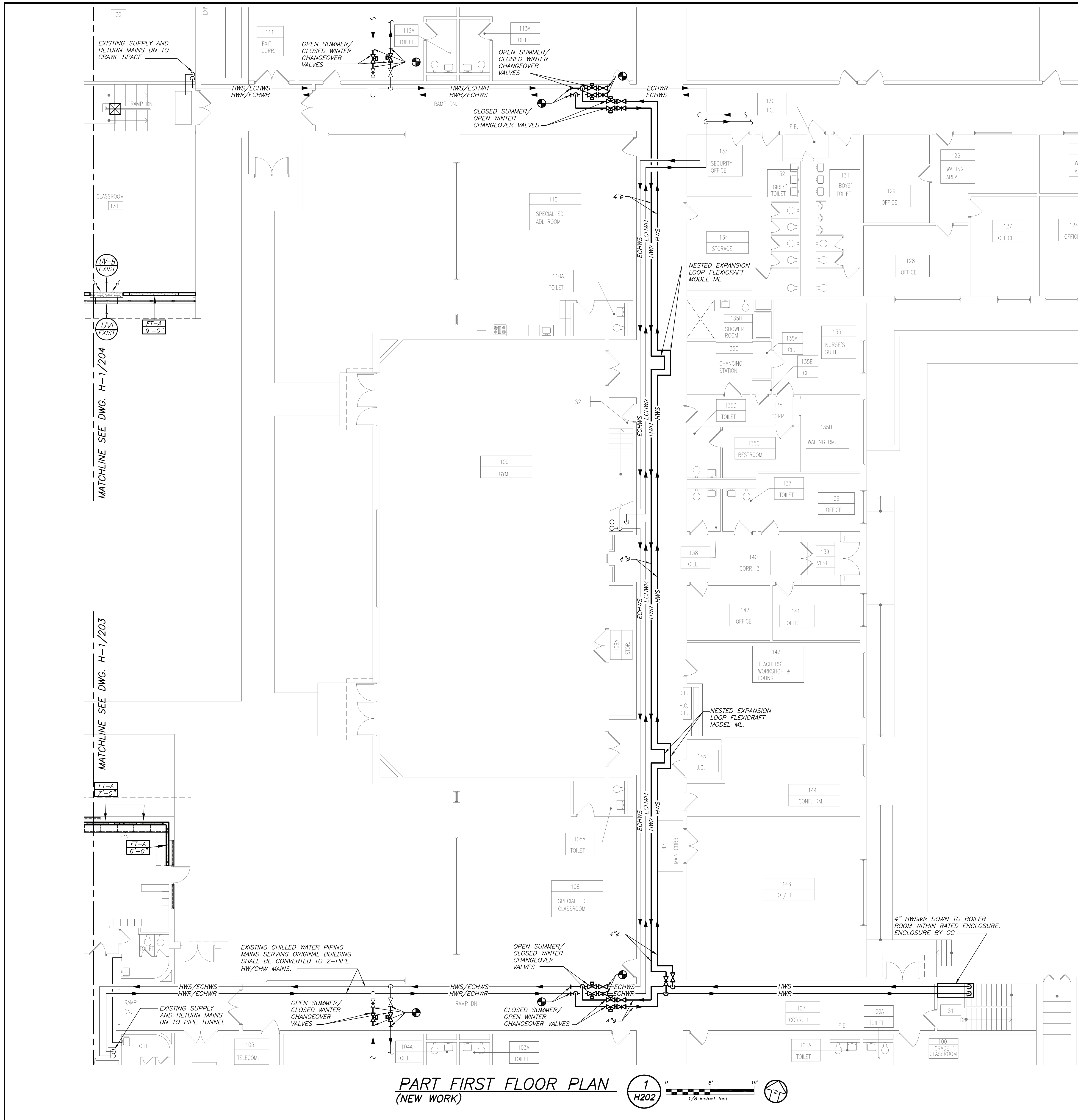
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YPS JOB # 10878

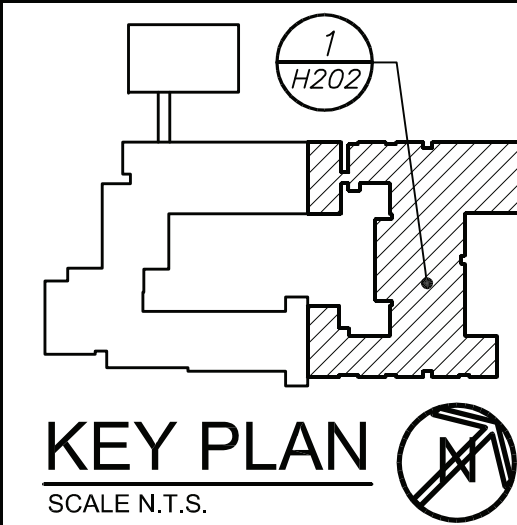
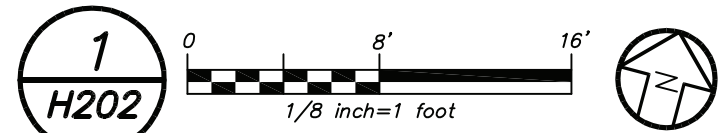
PROJECT: YONKERS SCHOOL DISTRICT
PS 29 BOILER REPLACEMENT HVAC UPGRADES & WINDOW REPLACEMENT
47 CROFTON ROAD, YONKERS, N.Y. 10710

DRAWING TITLE
PART FIRST FLOOR PLAN

10-21-2022	BID
11-06-2020	100% C.D. SUBMISSION
06-01-2020	100% D.D. SUBMISSION
05-01-2020	50% D.D. SUBMISSION
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO. H105
SCALE AS NOTED	FILE NO. 19359.00
DRAWN BY BGA	



PART FIRST FLOOR PLAN
(NEW WORK)



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S.E.D. CONTROL NUMBER:
66-23-00-01-0-029-012

YPS JOB # 10878

PROJECT:
YONKERS SCHOOL DISTRICT
PS 29 - BOILER REPLACEMENT HVAC UPGRADES &
ASBESTOS ABATEMENT
47 CROFTON ROAD, YONKERS, N.Y. 10710

DRAWING TITLE
PART FIRST FLOOR PLAN

10-21-2022	BID
11-06-2020	100% C.D. SUBMISSION
06-01-2020	100% D.D. SUBMISSION
05-01-2020	50% D.D. SUBMISSION
DATE	ISSUED TO

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SCALE AS NOTED	
DRAWN BY BGA	FILE NO. 19359.00

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PLOT DATE: October 20, 2022 1:05pm

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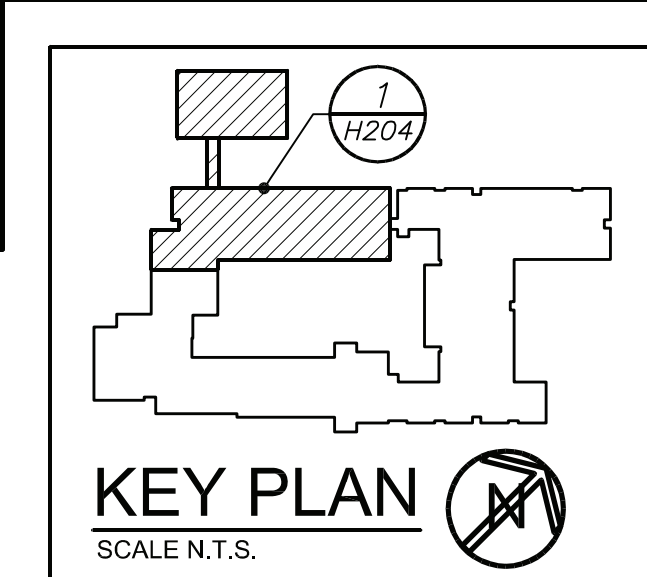
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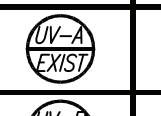
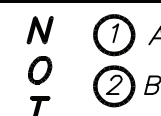
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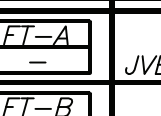
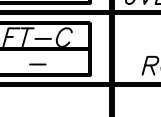
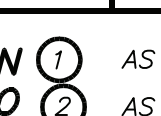
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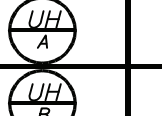
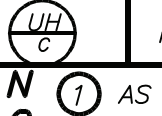
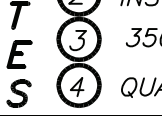
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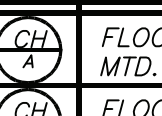
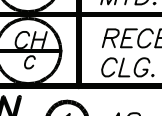
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11-06-2020	100% C.D. SUBMISSION
08-01-2020	100% D.D. SUBMISSION
05-01-2020	50% D.D. SUBMISSION
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SCALE AS NOTED	
DRAWN BY BGA	FILE NO. 19359.00

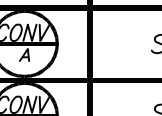
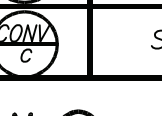
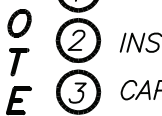
SCHEDULE OF EXISTING UNIT VENTILATORS															
MARK	MODEL No. ①	CFM	MIN. O.A. CFM ②	COOLING DATA		HEATING DATA ②			FILTER TYPE	MOTOR H.P.	ELEC. SERV.	MOTOR FLA	MCA	PHYSICAL DATA DIMENSION / WEIGHT	REMARKS
				TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	CAPACITY MBH	GPM	ROWS							
	MAUV1000	1000	550	—	—	76	5	2	THROWAWAY 2'12"x20"x2"	0.5 EA208/1/60	4.7	—	—	44"x30"Wx115"H/600LBS	REFER TO ③
	MAUV1500	1500	1000	—	—	76	5	2	THROWAWAY 2'12"x20"x2"	0.5 EA208/1/60	4.7	—	—	44"x30"Wx115"H/600LBS	③
	MAUH1000	1000	550	—	—	58	6	3	THROWAWAY	0.25 115/1/60	4.0	5.0	—	88"x22"Wx30"H/600LBS	③
	MAUH1500	1500	1000	—	—	84	9	3	THROWAWAY	0.5 115/1/60	4.7	5.9	—	100"x22"Wx30"H/750LBS	③
NOTES	① AS MANUFACTURED BY "MAGIC AIRE CORP".														
	② EXISTING UNIT VENTILATORS SHALL BE REFURBISHED AND MODIFIED FOR TWO PIPE HEATING AND COOLING OPERATION. UNITS SHALL BE PROVIDED WITH NEW AUTOMATIC TEMPERATURE CONTROLS AND ASSOCIATED VALVES/EQUIPMENT. CLEAN DRAIN PAN OF ANY DEBRIS AND SNAKE OUT AND VERIFY CONDENSATE DRAIN LINES ARE DRAINING PROPERLY AND NOT LEAKING TO CRAWL SPACE BELOW.														
	③ BASED ON 160° F E.W.T., 140° F L.W.T.														

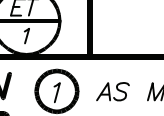
SCHEDULE OF HOT WATER FIN TUBE RADIATION										
MARK	MODEL No.	TIER #	CONNECTION SIZE	TYPE	FIN SIZE (IN.) (ALUMINUM)	FIN PER FOOT	ENCLOSURE DIMENSIONS DEPTH HEIGHT	MOUNTING HEIGHT (IN.)	BTU/LIN. FT.	REMARKS
	JVB-S20	①	1"	SLOPE TOPPED	4-1/4"W X 4-1/4"H	50	4-1/4"	20"	1050	REFER TO ②③④⑤
	JVB-S20	②	1"	SLOPE TOPPED	4-1/4"W X 4-1/4"H	50	4-1/4"	20"	1050	③④⑤⑦
	RC-11	③	3/4"	—	72"W X 32"H X 2"D	—	—	—	700	③④⑤
NOTES ① AS MANUFACTURED BY "STERLING." ② AS MANUFACTURED BY "RUNTAL." ③ INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ④ CAPACITIES BASED ON 150° A.W.T. (HW) ⑤ ENCLOSURE FINISH/COLOR AS APPROVED BY THE ARCHITECT. ⑥ PROVIDE Z-TYPE CONNECTORS FOR WALL AND CEILING MOUNTING LOCATIONS ⑦ AUTO CONTROL VALVE BY HVAC CONTRACTOR. ⑧ INSTALL DISTRIBUTION PIPING WITHIN CONTINUOUS (WALL TO WALL) FIN TUBE ENCLOSURE. ALL PIPING SHALL BE CONCEALED. PROVIDE STERLING MODEL PCH AND PCV METAL PIPE ENCLOSURES WHERE PIPING IS NOT CONCEALED.										

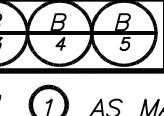
SCHEDULE OF REGISTERS AND DIFFUSERS							
MARK	TYPE	SERVICE	MODEL No. ①	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	REMARKS
(A)	CEILING DIFFUSER	SUPPLY	DP/DM	4-WAY	OPPOSED BLADE	PER ARCH.	REFER TO ②④⑤⑥⑦
(B)	CEILING GRILLE	RETURN	AC-30/L/45	—	—	PER ARCH.	REFER TO ②③⑤⑥⑧
(C)	TOP WALL REGISTER	SUPPLY	ECO-20	—	OPPOSED BLADE	PER ARCH.	REFER TO ②④⑤⑥⑦
(D)	TOP WALL REGISTER	RETURN	30/L/45	—	OPPOSED BLADE	PER ARCH.	REFER TO ②③⑤⑥⑧
NOTES ① AS MANUFACTURED BY "ANEMOSTAT". ② INSTALL PER MANUFACTURERS RECOMMENDATIONS. ③ BARS SET @ 45° DEGREES DEFLECTION WITH 3/4" BLADE SPACING. ④ PROVIDE SQUARE TO ROUND ADAPTER, EQUALIZING GRID AND OPPOSED BLADE DAMPER ⑤ COORDINATE COLOR, TRIM TYPE AND FINISHES WITH ARCHITECT. ⑥ PROVIDE CABLE OPERATED DAMPER IN ALL INACCESSIBLE AREAS ⑦ SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 500 fpm) ⑧ RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)							
50 TO 59	100 TO 129	300 TO 359	500 TO 599	800 TO 899	1200 TO 1299	1500 TO 1599	2000 TO 2099
6x6	9x9	12x12	15x15	18x18	21x21	24x24	6x6 8x8 10x10 12x12 14x14 16x16 18x18 24x24

SCHEDULE OF UNIT HEATER									
MARK	MODEL No. ①	CAPACITY DATA			MOTOR WATTS	ELECTRIC SERVICE	PHYSICAL DATA		REMARKS
		BTU/HR	EWI °F	LWT °F			LxWxH	WEIGHT (LBS)	
	HS-24	17,400	160	140	2.0	120/1/60	15X10X18	50	REFER TO ②③④⑤
	HS-36	26,000	160	140	3.0	120/1/60	15X10X18	50	
	HS-144	104,000	160	140	10.4	1/3HP 120/1/60	24X14X28	100	
NOTES ① AS MANUFACTURED BY "STERLING". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS ③ 350 CFM @1350 RPM (UH-A&B), 2200 CFM @1140 RPM (UH-C). ④ QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.									

SCHEDULE OF CABINET HEATERS											
MARK	TYPE UNIT	MODEL No. ①	CAPACITY DATA ②			MOTOR WATTS	MOTOR RPM	ELECTRIC SERVICE	PHYSICAL DATA		REMARKS
			BTU/HR	CFM	GPM				LxWxH (IN)	WEIGHT (LBS)	
	FLOOR MTD.	FS1005-02	22,700	225	3.0	0.73	70	1100	120/1/60	35x29x10	125 REFER TO ②③④
	FLOOR MTD.	RS1005-04	36,300	420	3.0	5.9	90	1100	120/1/60	47x29x10	125 ②③④
	RECESSED CLG. MTD.	RC1200-02	22,700	225	3.0	0.73	70	1100	120/1/60	36x25x10	125 ②③④
NOTES ① AS MANUFACTURED BY "STERLING". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS ③ CAPACITIES BASED ON HIGH SPEED FAN SETTING, AND 150° A.W.T. ④ PROVIDE THROWAWAY FILTERS, DISCONNECT SWITCH, TWO ROW COIL, RECESSED TRIM AND SEALS.											

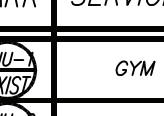
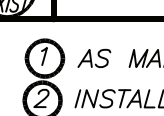
SCHEDULE OF CONVECTORS									
MARK	MODEL No. ①	MBH @150°F AWT	GPM	PHYSICAL DATA			REMARKS		
				D	L	H			
	SF-A	3.5	1.0	4"	36"	26"	50	REFER TO ①②	
	SF-A	11.0	2.0	6"	64"	32"	100	①②	
	SF-A	8.0	2.0	6"	48"	32"	75	①②	
NOTES ① AS MANUFACTURED BY "STERLING". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS ③ CAPACITIES BASED ON 150° A.W.T.									

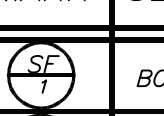
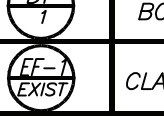
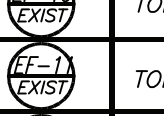
SCHEDULE OF EXPANSION TANK				
MARK	MODEL No. ①	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
	B-600	80	158	REFER TO ②③
NOTES ① AS MANUFACTURED BY "BELL & GOSSETT". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ VERTICAL MOUNTING 125PSI ASME TANK, DIMENSIONS 30"x64" / 1900LBS.				

SCHEDULE OF BOILERS						
BOILER DATA			BURNER DATA		ELECTRICAL	REMARKS
MARK	LOCATION	MODEL No. ①	INPUT (MBH)	OUTPUT (MBH)	FUEL	
	BOILER ROOM	ENDURA EDR-1000	1000	924	GAS	120/1/60 20 REFER TO ②③④⑤⑥
NOTES ① AS MANUFACTURED BY "TULON". ② BURNER INTEGRAL TO BOILER. HOT WATER BASED ON 140° F E.W.T., 160° F L.W.T. ③ INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ④ BOILER INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF INSURANCE UNDERWRITERS, NFPA AND ALL AUTHORITIES HAVING JURISDICTION. BOILERS SHALL BE FULLY FIELD COMMISSIONED BY AUTHORIZED TECHNICIAN FOR THE TYPE OF GAS FIRED (LPG OR NG). IF THE TYPE OF GAS IS CHANGED AFTER STARTUP THE BOILERS SHALL BE FULLY RE-COMMISSIONED BY AUTHORIZED TECHNICIAN. ⑤ PROVIDE MANUFACTURER RECOMMENDED COMBUSTION AIR INTAKE AND EXHAUST VENT PIPING, VENT PIPE CONDENSATE DRAIN, HIGH/LOW LIMIT CONTROL, DUAL LOW WATER CUT OFFS, OUTDOOR AIR TEMPERATURE SENSOR KIT, MULTIPLE BOILER CONDENSATE NEUTRALIZER PACKAGE, VENT PIPING PER THIS MANUFACTURER AL-29-4C OR 316L BACKHET CONTROLS, DISCONNECT SWITCH, LEAD LAG CONTROLS, MOTORIZED ISOLATION VALVES, BOILER PUMP START/STOP SIGNAL, VENTLESS GAS TRAIN, MODSYNC CONTROL PANEL. ⑥ BOILER WEIGHT 1900 LBS : DIMENSIONS 28"W X 50"L X 68"H						

SCHEDULE OF PUMPS											
MARK	SERVICE	LOCATION	MODEL N ^o ①	GPM	HEAD FT./H ₂ O	RPM	MOTOR HP	ELECTRIC SERVICE	PHYSICAL DATA		REMARKS
									LxWxH (IN)	WEIGHT (LBS)	
	MECHANICAL	↓	SERIES 80 3K3K7C	200	40	1800	5.0	208/3/60	19X12X28	250	REFER TO ②③
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
	HEATING LOOP	MECHANICAL	SERIES E-1510 4GC	600	100	1800	25	208/3/60	52X24X26	900	↓
	HEATING LOOP	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
NOTES ① AS MANUFACTURED BY "BELL & GOSSETT". ② INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS. ③ PROVIDE ALL PUMPS WITH WALL OR FLOOR MOUNTED VFD'S.											

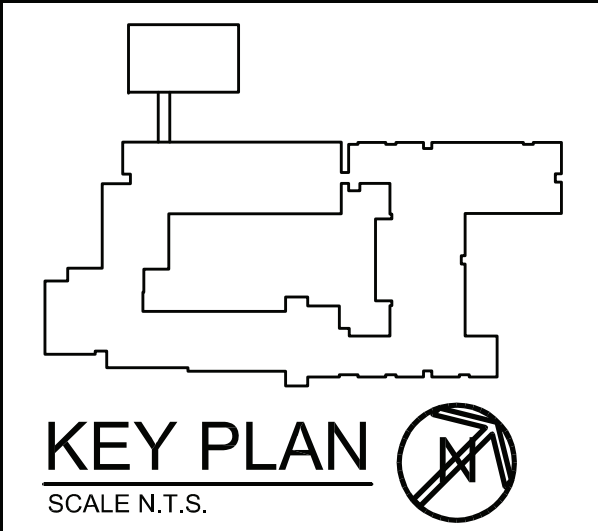
SCHEDULE OF CHEMICAL FEED TANK									
MARK	MODEL No. ①	TANK VOLUME GALS.	PUMP GPM @ 50PSIG	ELECTRICAL DATA		PHYSICAL DATA		REMARKS	
				SERVICE	AMPS	(IN)	WEIGHT (LBS)		
	SF-100-D-P	55	1.0	120/1/60	0.7	24"X 50" H	125	REFER TO ②③	
NOTES ① AS MANUFACTURED BY "AXIOM INDUSTRIES". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ PROVIDE INTEGRAL DUPLEX PUMPS, INLET STRAINER, CHECK VALVE, THERMAL CUTOFF SWITCH, PRESSURE SWITCH, PRE-CHARGED ACCUMULATOR TANK WITH EPDM DIAPHRAGM, DIVERTER VALVE, ADJUSTABLE PRESSURE REGULATING VALVE, FLEXIBLE HOSE CONNECTOR KIT, FIELD MOUNTED LOW LEVEL ALTERNATING ALARM CONTROL PANEL, MONITORING DRY CONTACTS AND SF100 CONTAINMENT TANK.									

SCHEDULE OF EXISTING AIR HANDLING UNITS											
GENERAL DATA				SUPPLY FAN DATA			HEATING DATA TOTAL BTU/HR.	FILTER DATA QTY. & SIZE	REMARKS		
MARK	SERVICE	MODEL No. ①	MIN. O.A. CFM	MAX. O.A. CFM	EXT. S.P. IN. H ₂ O	RPM					
	GYM	39L08	1500	3,000	3,000	0.5	900	3	208/3/60	357,000	36 (2)16x20x2 (2)16x25x2 REFER TO ②③④
	GYM	39L08	1500	3,000	3,000	0.5	900	3	208/3/60	357,000	36 (2)16x20x2 (2)16x25x2 REFER TO ②③④
NOTES ① AS MANUFACTURED BY "CARRIER CORP." ② INSTALL PER MANUFACTURERS RECOMMENDATIONS. ③ HEATING CAPACITY BASED ON 160° EWT AND 140° LWT. DESIGN AIR CONDITIONS: SUMMER: OA (94°/75°) RA (77°/65°); OA (57°/37°) RA (70°/58°). ④ CLEAN REFURBISH, AND REBALANCE EXISTING HORIZONTAL AIR HANDLING UNITS TO SPECIFIED PERFORMANCES. EXISTING STEAM COIL SECTION SHALL BE FULLY CLEANED AND ABANDONED. EXISTING CHILLED WATER COIL SHALL BE CONVERTER TO DUAL TEMPERATURE USE. PROVIDE NEW AUTOMATIC TEMPERATURE CONTROLS AND ASSOCIATE VALVES/EQUIPMENT. REPLACE AIR FILTERS WITH MERV 13 TYPE.											

SCHEDULE OF FANS												
MARK	SERVICE	LOCATION	TYPE	MODEL No.	CFM	EXT. S.P. IN. H ₂ O	RPM	HP (WATTS)	ELECTRIC SERVICE	PHYSICAL DATA LxWxH	WEIGHT	REMARKS
	BOILER RM	CEILING	IN-LINE	B5Q160	3000	1.0	1725	1.5	208/3/60	29X29X29	200	③④
	BOILER RM	CEILING	IN-LINE	TRY18-EC	1485	.5	1800	.75	208/1/60	28X27X32	80	③⑤
	CLASSROOMS	ROOF	CENTRIF	—	5500	.25	1725	0.75	FIELD VERIFY			⑥
	CAFETERIA	ROOF	CENTRIF	—	4000	.5	1800	.75	208/3/60			⑥
	TOILET RMS	ROOF	CENTRIF	—	500	.25	1725	.125	120/1/60			⑥
	CLASSROOMS	ROOF	CENTRIF	—	10500	.5	1725	2.0	FIELD VERIFY			⑥
	KITCHEN	PENTHOUSE	UTILITY	—	2940	.5	1725	.75	208/3			⑥
	CORRIDOR	CEILING	IN-LINE	—	900	.25	1725	.125	FIELD VERIFY			⑥
	GYM	PENTHOUSE	UTILITY	—	6300	.5	1725	1.0	208/3			⑥
	LOCKER RMS	CEILING	IN-LINE	—	1150	.25	1725	.25	FIELD VERIFY			⑥
	TOILET RMS	CEILING	IN-LINE	—	800	.25	1725	.125	FIELD VERIFY			⑥
	TOILET RMS	CEILING	IN-LINE	—	1600	.25	1725	.25	FIELD VERIFY			⑥
	TOILET RMS	ROOF	CENTRIF	—	900	.25	1725	.25	120/1/60			⑥
	TOILET RMS	ROOF	CENTRIF	—	900	.5	1725	.5	120/1/60			⑥

SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES cont'd											
DINING 110G	CAFETERIA/FAST-FOOD DINING	3710	100	7.5	0.18	0	371	3450	0.8	4313	0
CLOSET	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	20	2	5	0.06	0	1	6	0.8	8	0
STORAGE 108	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	55	2	5	0.06	0	1	8	0.8	10	0
STORAGE 109	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	100	2	5	0.06	0	1	11	0.8	14	0
KITCHEN 107	KITCHEN (COOKING)	630	20	7.5	0.12	0.7	13	173	0.8	216	441
STORAGE 105	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	160	2	5	0.06	0	1	15	0.8	18	0
STORAGE 106	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	75	2	5	0.06	0	1	10	0.8	12	0
GYM	GYM, SPORTS ARENA (PLAY AREA)	2920	7	20	0.18	0.5	21	946	0.8	1182	1460
STAGE	MUSIC/THEATRE/DANCE	780	35	10	0.06	0	28	327	0.8	409	0
PASSAGE 2	CORRIDORS	830	0	0	0.06	0	0	50	0.8	62	0
TOILET	TOILETS - PUBLIC	60	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
BOY'S LOCKER	ALL OTHER LOCKER ROOMS	145	0	0	0	0.25	0	0	0.8	0	36
GIRL'S LOCKER	ALL OTHER LOCKER ROOMS	225	0	0	0	0.25	0	0	0.8	0	56
CORRIDOR	CORRIDORS	2320	0	0	0.06	0	0	139	0.8	174	0
CLASSROOM	CLASSROOM (AGES 9+)	1095	35	10	0.12	0	39	521	0.8	652	0
CLOSET	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	40	2	5	0.06	0	1	7	0.8	9	0
TOILET	TOILETS - PUBLIC	27	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLASSROOM	CLASSROOM (AGES 9+)	915	35	10	0.12	0	33	440	0.8	550	0
CLOSET	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	36	2	5	0.06	0	1	7	0.8	9	0
TOILET	TOILETS - PUBLIC	46	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLOAK ROOM	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	240	2	5	0.06	0	1	19	0.8	24	0
CLASSROOM	CLASSROOM (AGES 9+)	915	35	10	0.12	0	33	440	0.8	550	0
CLOSET	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	36	2	5	0.06	0	1	7	0.8	9	0
TOILET	TOILETS - PUBLIC	46	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLASSROOM	CLASSROOM (AGES 9+)	915	35	10	0.12	0	33	440	0.8	550	0
CLOSET	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	36	2	5	0.06	0	1	7	0.8	9	0
TOILET	TOILETS - PUBLIC	46	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLASSROOM	CLASSROOM (AGES 9+)	915	35	10	0.12	0	33	440	0.8	550	0
CLOSET	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	36	2	5	0.06	0	1	7	0.8	9	0
TOILET	TOILETS - PUBLIC	46	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLASSROOM	CLASSROOM (AGES 9+)	915	35	10	0.12	0	33	440	0.8	550	0
CLOSET	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	36	2	5	0.06	0	1	7	0.8	9	0
TOILET	TOILETS - PUBLIC	46	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLOAK ROOM	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	240	2	5	0.06	0	1	19	0.8	24	0
CLASSROOM	CLASSROOM (AGES 9+)	1345	35	10	0.12	0	48	641	0.8	802	0
STORAGE	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	50	2	5	0.06	0	1	8	0.8	10	0
TOILET	TOILETS - PUBLIC	80	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLASSROOM	CLASSROOM (AGES 9+)	1436	35	10	0.12	0	51	682	0.8	853	0
TOILET	TOILETS - PUBLIC	80	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CLOSET	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	30	2	5	0.06	0	1	7	0.8	9	0
CLOSET	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	16	2	5	0.06	0	1	6	0.8	7	0
OFFICE	OFFICE SPACE	215	5	5	0.06	0	2	23	0.8	29	0
OFFICE	OFFICE SPACE	145	5	5	0.06	0	1	14	0.8	17	0
TOILET	TOILETS - PUBLIC	25	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
CONFERENCE ROOM	CONFERENCE/MEETING ROOMS FOR DRY MATERIALS	52	50	5	0.06	0	3	18	0.8	23	0
STORAGE	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	132	2	5	0.06	0	1	13	0.8	16	0
TEACHER'S ROOM	BREAK ROOMS	195	50	5	0.12	0	10	73	0.8	92	0
REST ROOM	BREAK ROOMS	52	50	5	0.12	0	3	21	0.8	27	0
TOILET	TOILETS - PUBLIC	26	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
TOILET	TOILETS - PUBLIC	22	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
NURSE'S OFFICE	OFFICE SPACE	145	5	5	0.06	0	1	14	0.8	17	0
WAITING ROOM	BREAK ROOMS	56	50	5	0.12	0	3	22	0.8	27	0
TOILET	TOILETS - PUBLIC	25	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
REST ROOM	BREAK ROOMS	110	50	5	0.12	0	6	43	0.8	54	0

SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES											
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A	B	C	D	E	F	G	H	I	J
		ROOM AREA (SQ.FT.)	PEOPLE DENSITY (RP/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=HP	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 EXHAUST AIR FLOW RATE A+E=CFM
CLASSROOM 151	CLASSROOM (AGES 9+)	930	35	10	0.12	0	33	442	0.8	552	0
CLASSROOM 152	CLASSROOM (AGES 9+)	830	35	10	0.12	0	30	400	0.8	500	0
CLASSROOM 156	CLASSROOM (AGES 9+)	830	35	10	0.12	0	30	400	0.8	500	0
CLASSROOM 146	CLASSROOM (AGES 9+)	930	35	10	0.12	0	33	442	0.8	552	0
CLASSROOM 161	CLASSROOM (AGES 9+)	830	35	10	0.12	0	30	400	0.8	500	0
CLASSROOM 157	CLASSROOM (AGES 9+)	830	35	10	0.12	0	30	400	0.8	500	0
CORRIDOR 7	CORRIDORS	990	0	0	0.06	0	0	59	0.8	74	0
SUPPLY CLOSET 154	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	35	2	5	0.06	0	1	7	0.8	9	0
SUPPLY CLOSET 155	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	35	2	5	0.06	0	1	7	0.8	9	0
CLOAK ROOM 153	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	135	2	5	0.06	0	1	13	0.8	16	0
SUPPLY CLOSET 159	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	35	2	5	0.06	0	1	7	0.8	9	0
SUPPLY CLOSET 160	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	35	2	5	0.06	0	1	7	0.8	9	0
CLOAK ROOM 158	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	135	2	5	0.06	0	1	13	0.8	16	0
CORRIDOR 8	CORRIDORS	590	0	0	0.06	0	0	35	0.8	44	0
CLASSROOM 114	CLASSROOM (AGES 9+)	890	35	10	0.12	0	32	427	0.8	534	0
CLASSROOM 119	CLASSROOM (AGES 9+)	890	35	10	0.12	0	32	427	0.8	534	0
CLASSROOM 120	CLASSROOM (AGES 9+)	890	35	10	0.12	0	32	427	0.8	534	0
CLASSROOM 125	CLASSROOM (AGES 9+)	890	35	10	0.12	0	32	427	0.8	534	0
CLASSROOM 126	CLASSROOM (AGES 9+)	890	35	10	0.12	0	32	427	0.8	534	0
CLASSROOM 130	CLASSROOM (AGES 9+)	890	35	10	0.12	0	32	427	0.8	534	0
CLASSROOM 140	CLASSROOM (AGES 9+)	890	35	10	0.12	0	32	427	0.8	534	0
CLASSROOM 136	CLASSROOM (AGES 9+)	890	35	10	0.12	0	32	427	0.8	534	0
CLASSROOM 135	CLASSROOM (AGES 9+)	890	35	10	0.12	0	32	427	0.8	534	0
CLASSROOM 131	CLASSROOM (AGES 9+)	890	35	10	0.12	0	32	427	0.8	534	0
CLOAK RM 115	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	85	2	5	0.06	0	1	10	0.8	13	0
SUPPLY CLOSET 116	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	40	2	5	0.06	0	1	7	0.8	9	0
SUPPLY CLOSET 117	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	40	2	5	0.06	0	1	7	0.8	9	0
CLOAK RM 118	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	85	2	5	0.06	0	1	10	0.8	13	0
CLOAK RM 121	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	155	2	5	0.06	0	1	14	0.8	18	0
SUPPLY CLOSET 123	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	40	2	5	0.06	0	1	7	0.8	9	0
SUPPLY CLOSET 124	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	40	2	5	0.06	0	1	7	0.8	9	0
CLOAK RM 127	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	155	2	5	0.06	0	1	14	0.8	18	0
SUPPLY CLOSET 128	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	40	2	5	0.06	0	1	7	0.8	9	0
SUPPLY CLOSET 129	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	40	2	5	0.06	0	1	7	0.8	9	0
SUPPLY CLOSET 139	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	40	2	5	0.06	0	1	7	0.8	9	0
SUPPLY CLOSET 138	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	40	2	5	0.06	0	1	7	0.8	9	0
CLOAK RM 137	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	155	2	5	0.06	0	1	14	0.8	18	0
SUPPLY CLOSET 134	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	40	2	5	0.06	0	1	7	0.8	9	0
SUPPLY CLOSET 133	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	40	2	5	0.06	0	1	7	0.8	9	0
CLOAK RM 132	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	155	2	5	0.06	0	1	14	0.8	18	0
STORAGE 144	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	80	2	5	0.06	0	1	10	0.8	12	0
145	TOILETS - PUBLIC	130	3 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	150
145	TOILETS - PUBLIC	130	3 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	150
JANITOR CLOSET 142	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	70	0	0	0	1	0	0	0.8	0	70
BOYS' TOILET 143	TOILETS - PUBLIC	230	5 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	250
GIRLS' TOILET 141	TOILETS - PUBLIC	230	5 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	250
CORRIDOR 3	CORRIDORS	850	0	0	0.06	0	0	51	0.8	64	0
CORRIDOR 4	CORRIDORS	1675	0	0	0.06	0	0	101	0.8	126	0



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S.E.D. CONTROL NUMBER:
66-23-00-01-0-029-012

YPS JOB # 10878

**YONKERS CITY
YONKERS SCHOOL DISTRICT
P&S BOILER REPLACEMENT HVAC UPGRADES &
ASBESTOS ABATEMENT YONKERS N.Y. 10710**

**DRAWING TITLE
SCHEDULES**

10-21-2022 BID

11-06-2020 100% C.D. SUBMISSION

06-01-2020 100% D.D. SUBMISSION

05-01-2020 50% D.D. SUBMISSION

DATE ISSUED TO

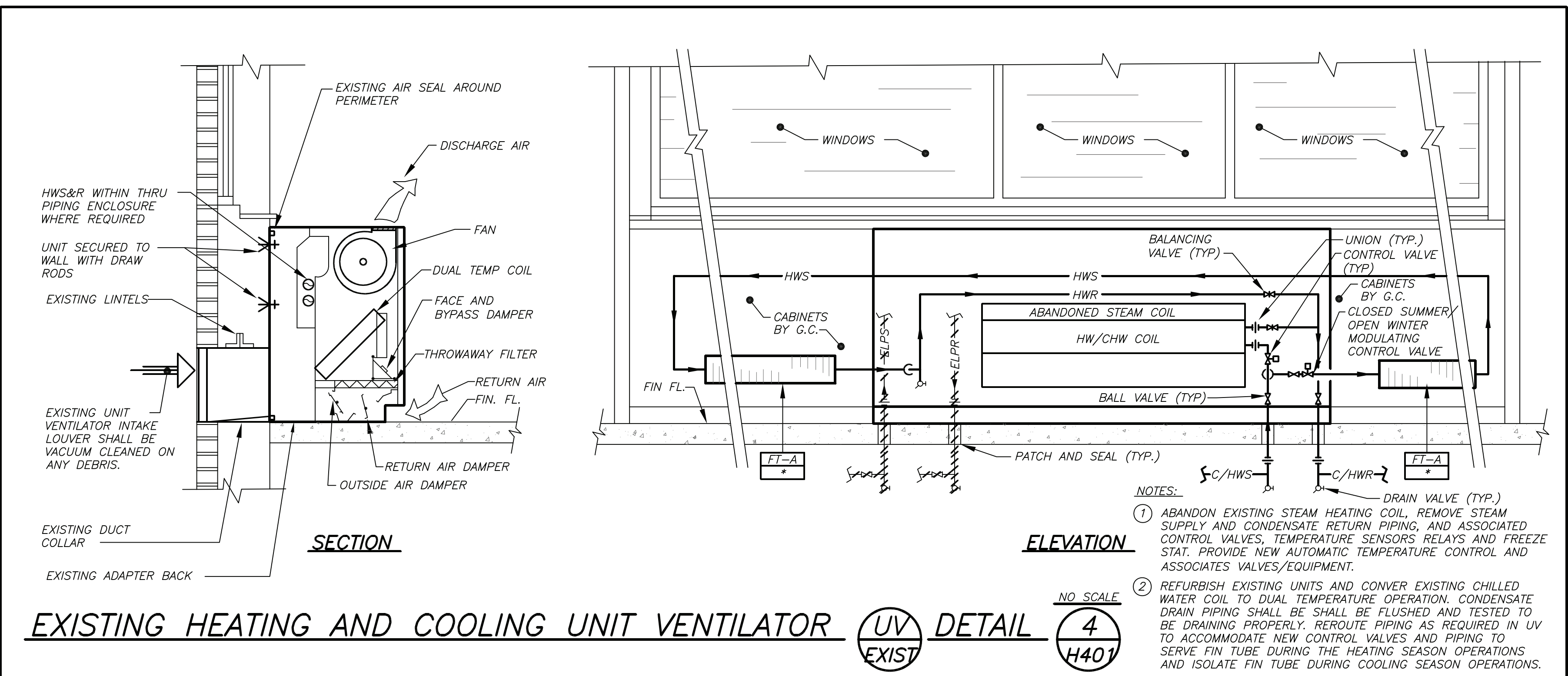
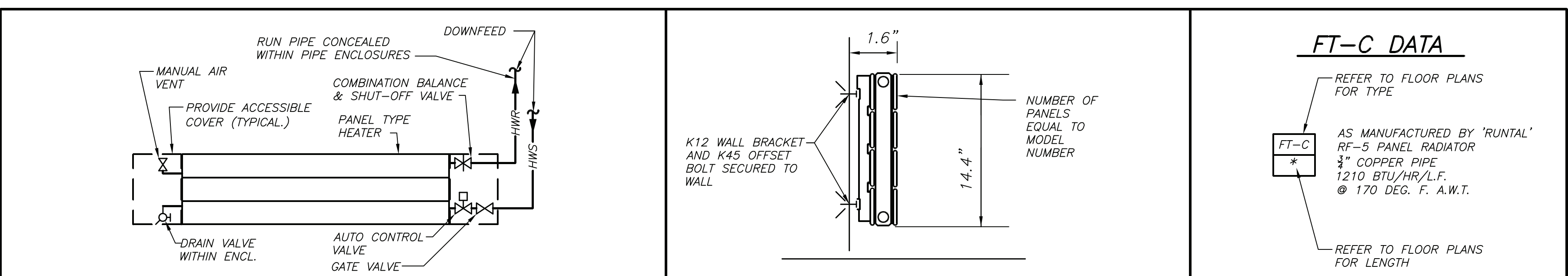
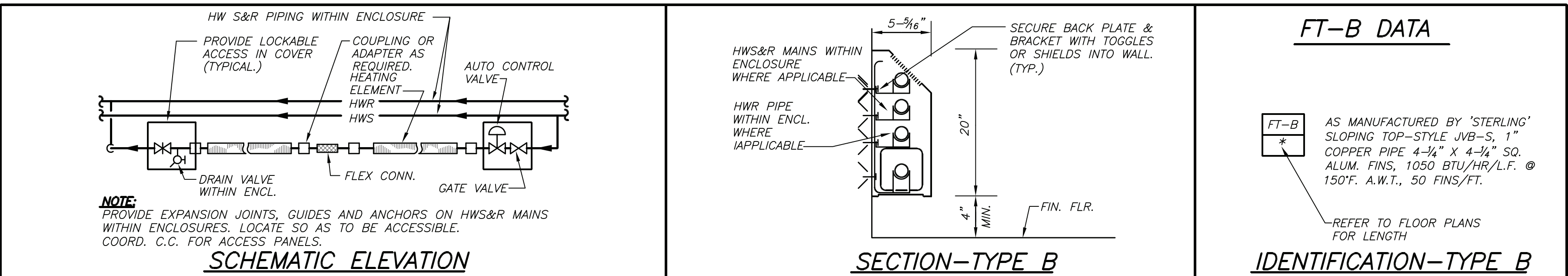
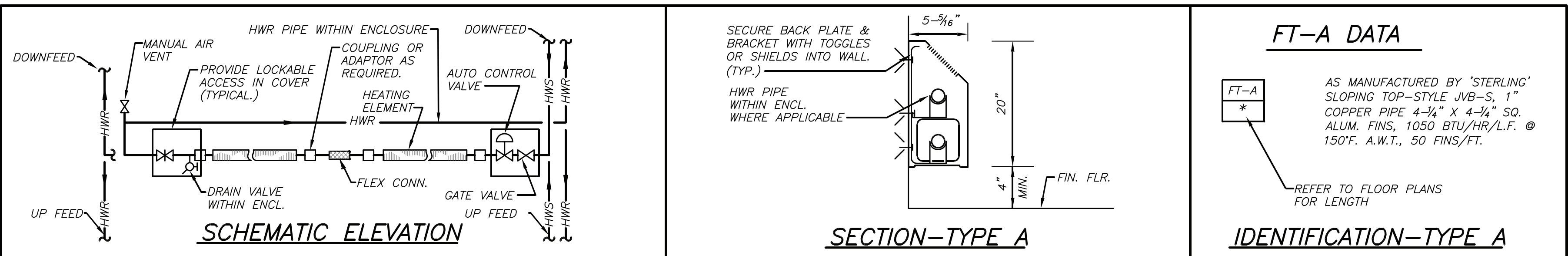
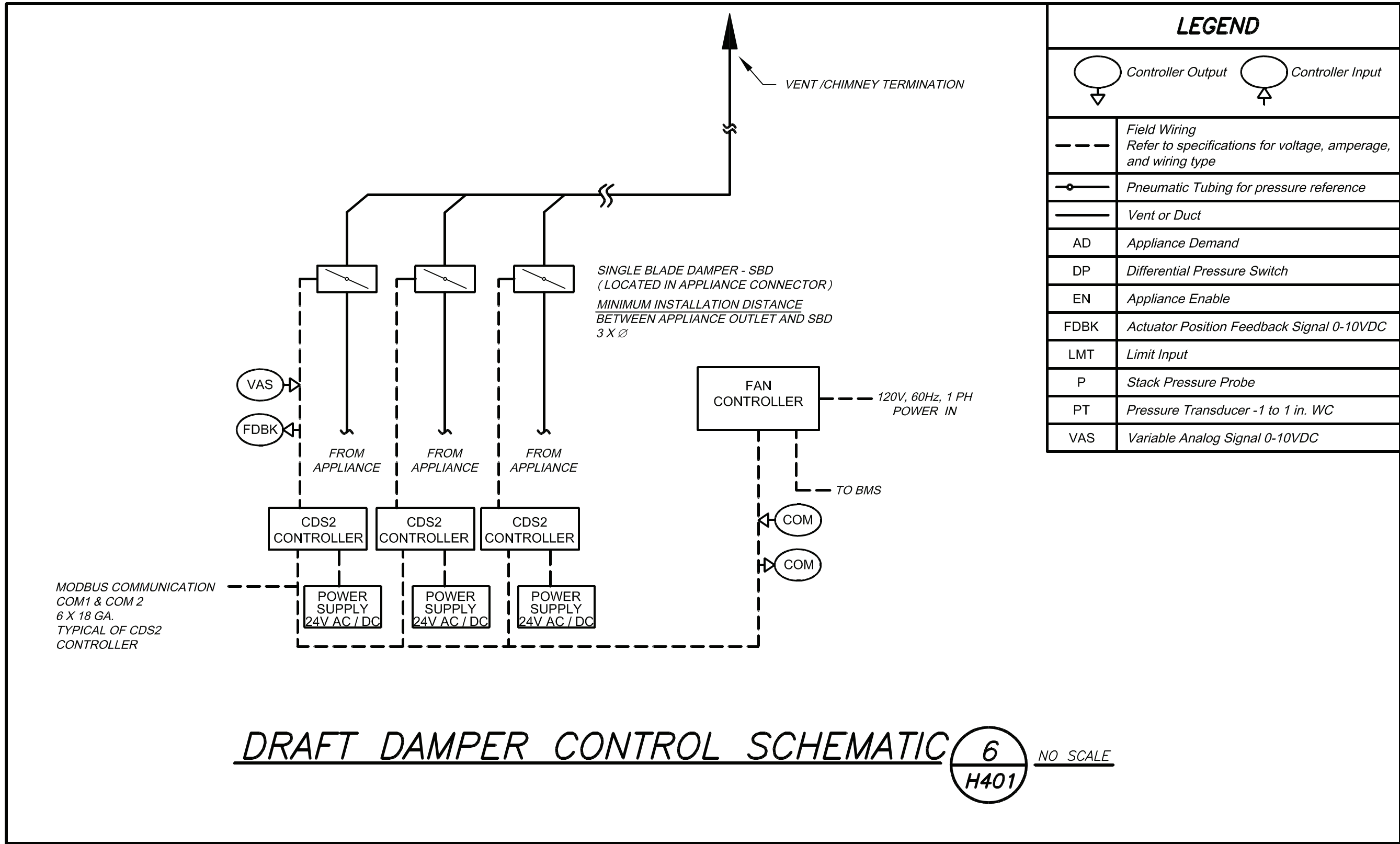
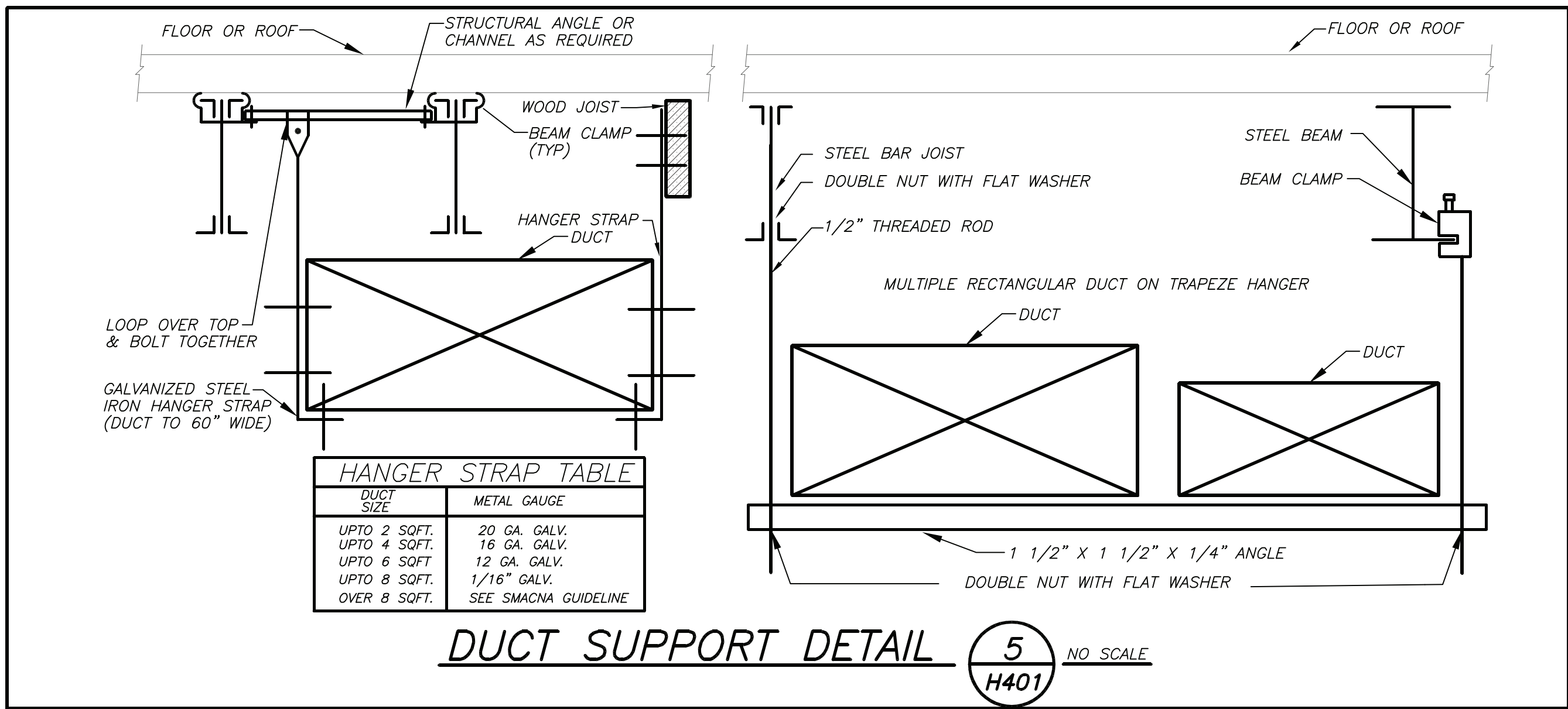
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SCALE
AS NOTED

DRAWN BY
BGA

DRAWING NO.
H302

FILE NO.
19359.00



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ARCHITECTS PLANNERS

S.E.D. CONTROL NUMBER:
66-23-00-01-0-029-012

YPS JOB # 10878

PROJECT:
YONKERS SCHOOL DISTRICT
PS 29 BOILER REPLACEMENT HVAC UPGRADES & ASBESTOS ABATEMENT
47 CROFTON ROAD, YONKERS, N.Y. 10570

DRAWING TITLE:
DETAILS

DATE	ISSUED TO
10-21-2022	BID
11-06-2020	100% C.D. SUBMISSION
06-01-2020	100% D.D. SUBMISSION
05-01-2020	50% D.D. SUBMISSION

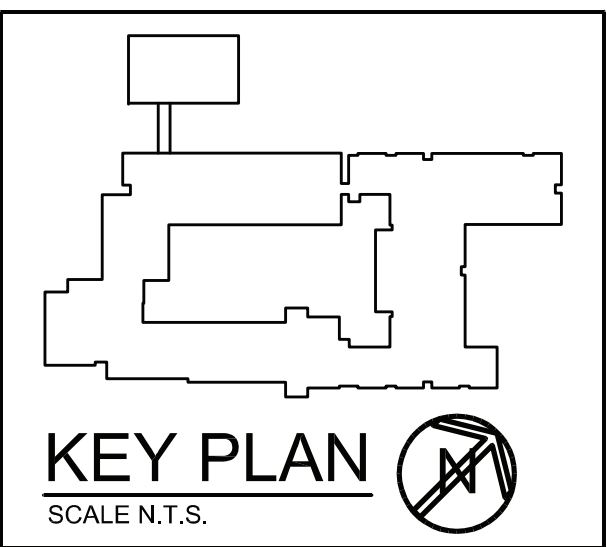
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SCALE:
AS NOTED

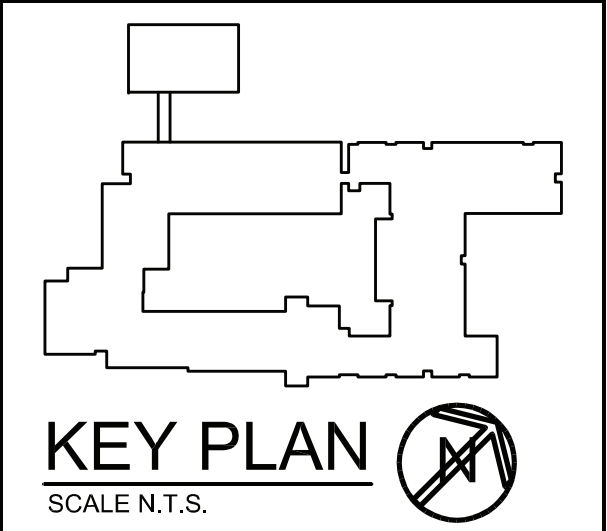
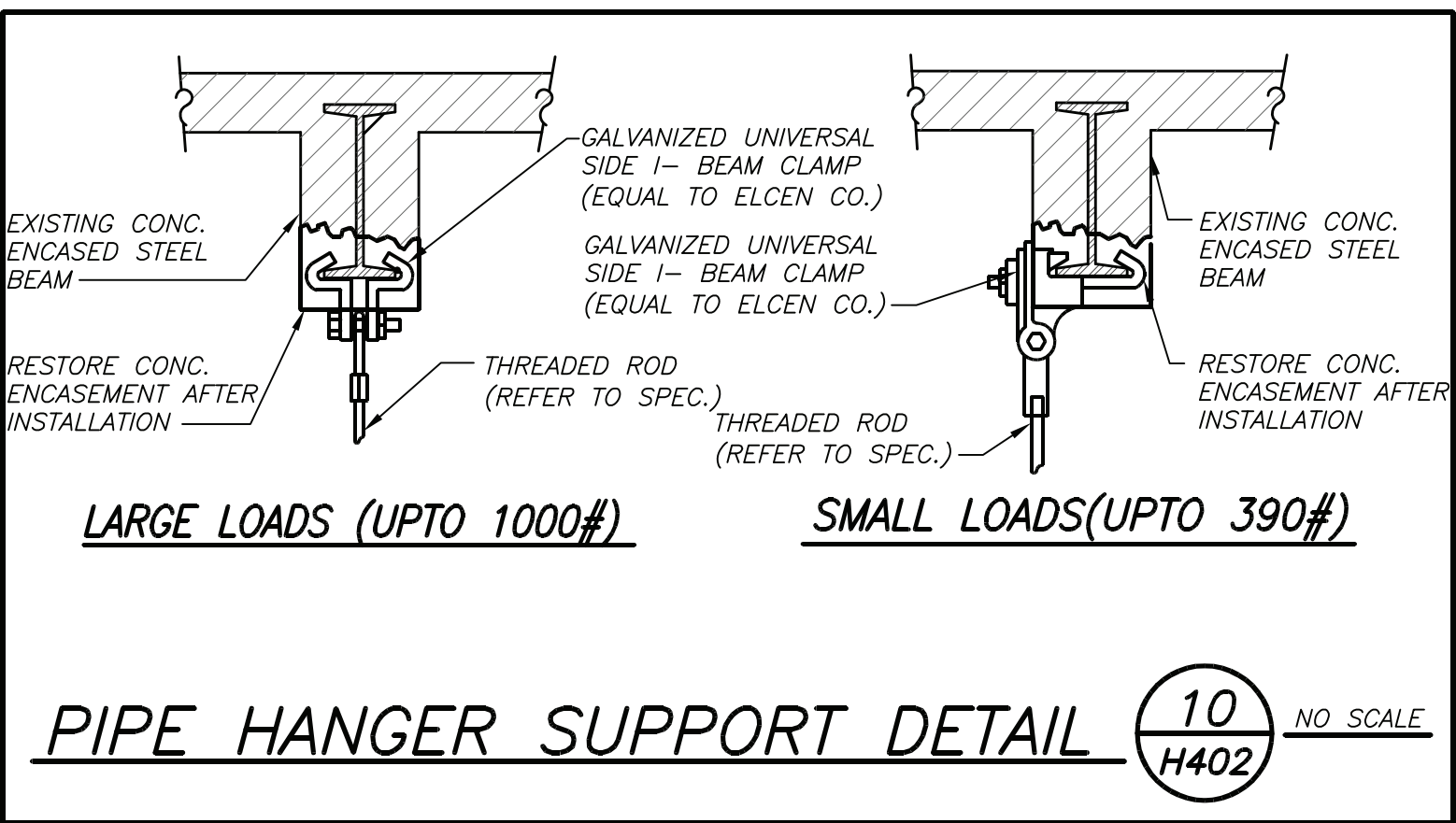
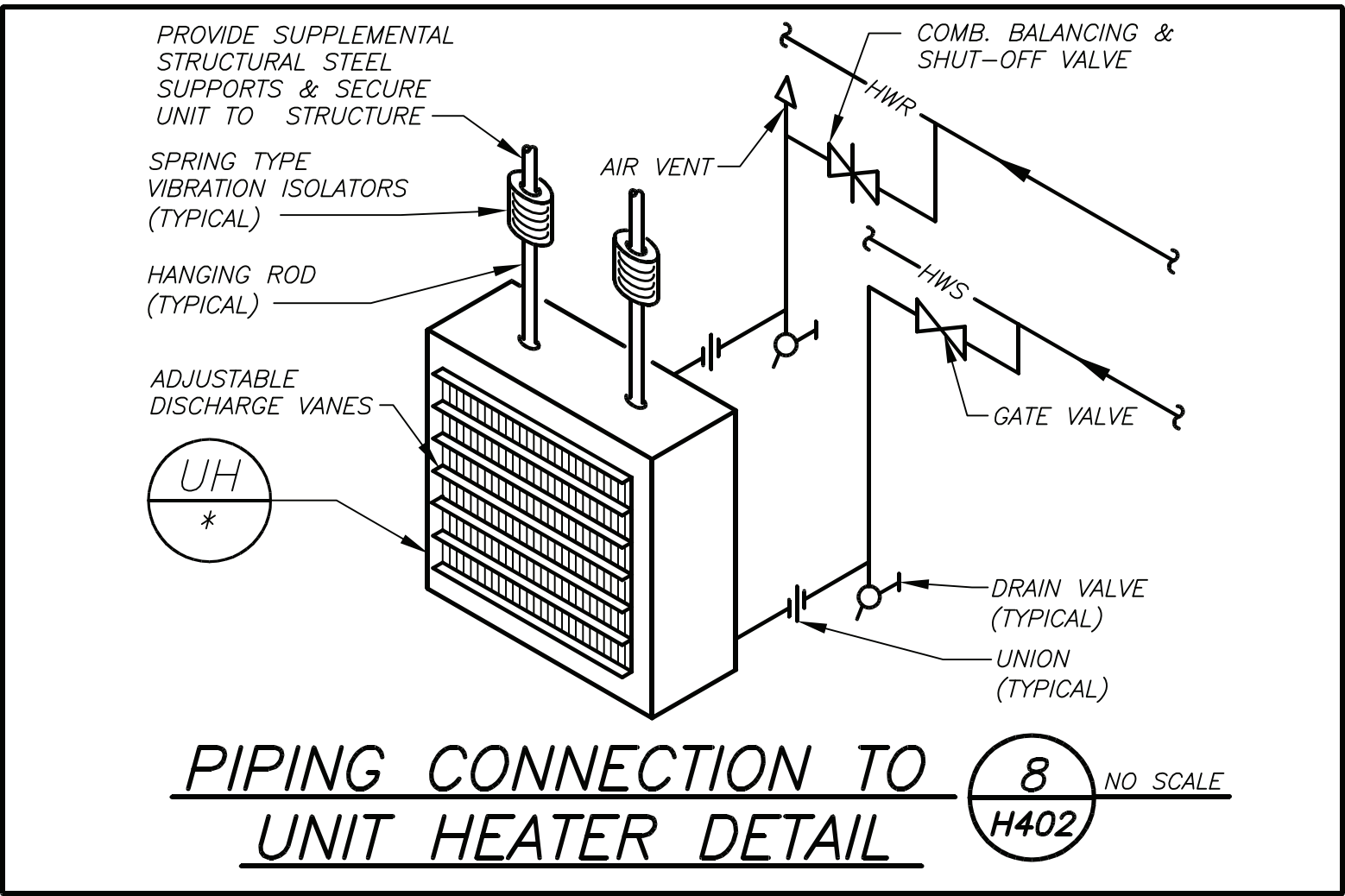
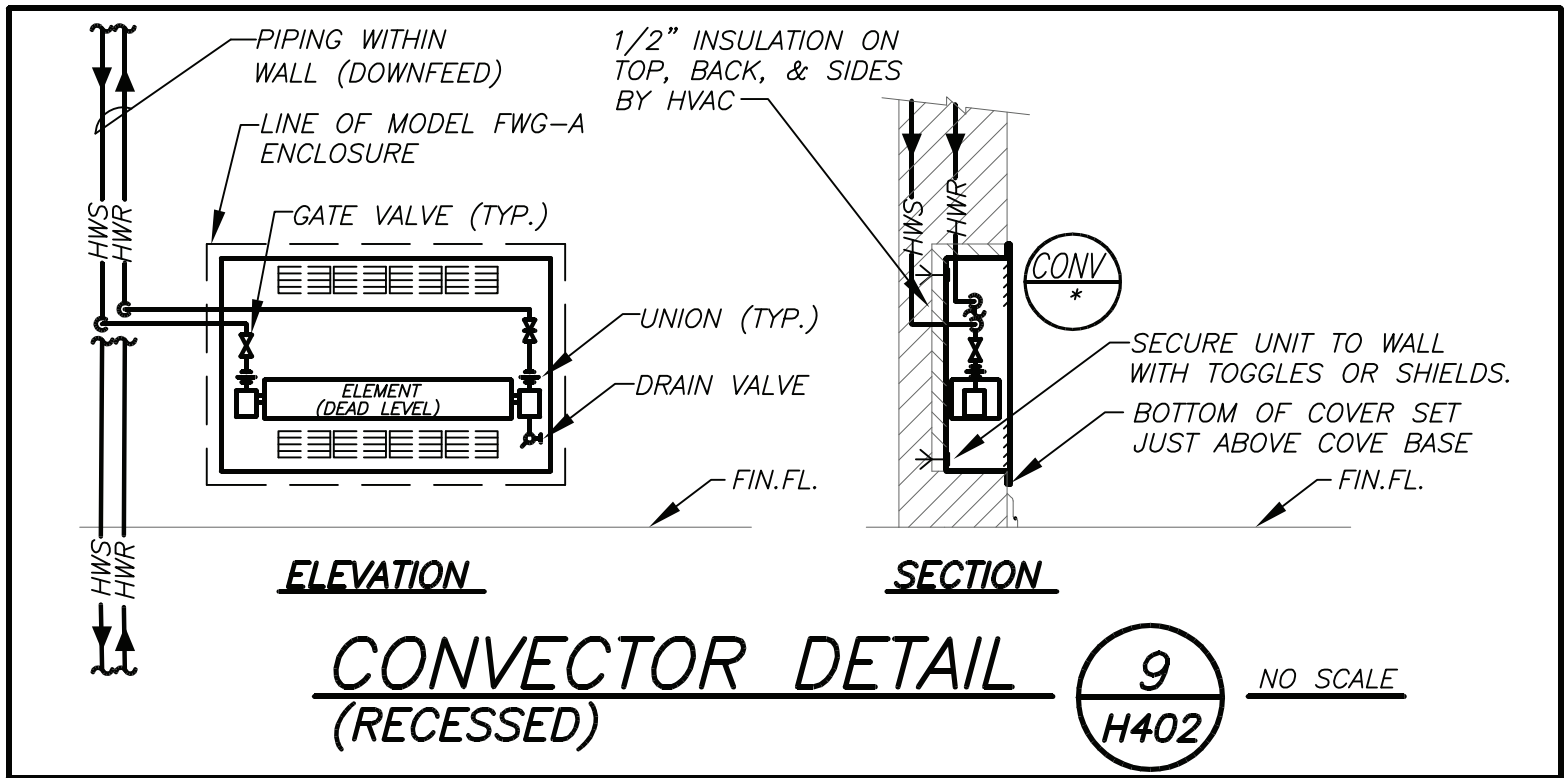
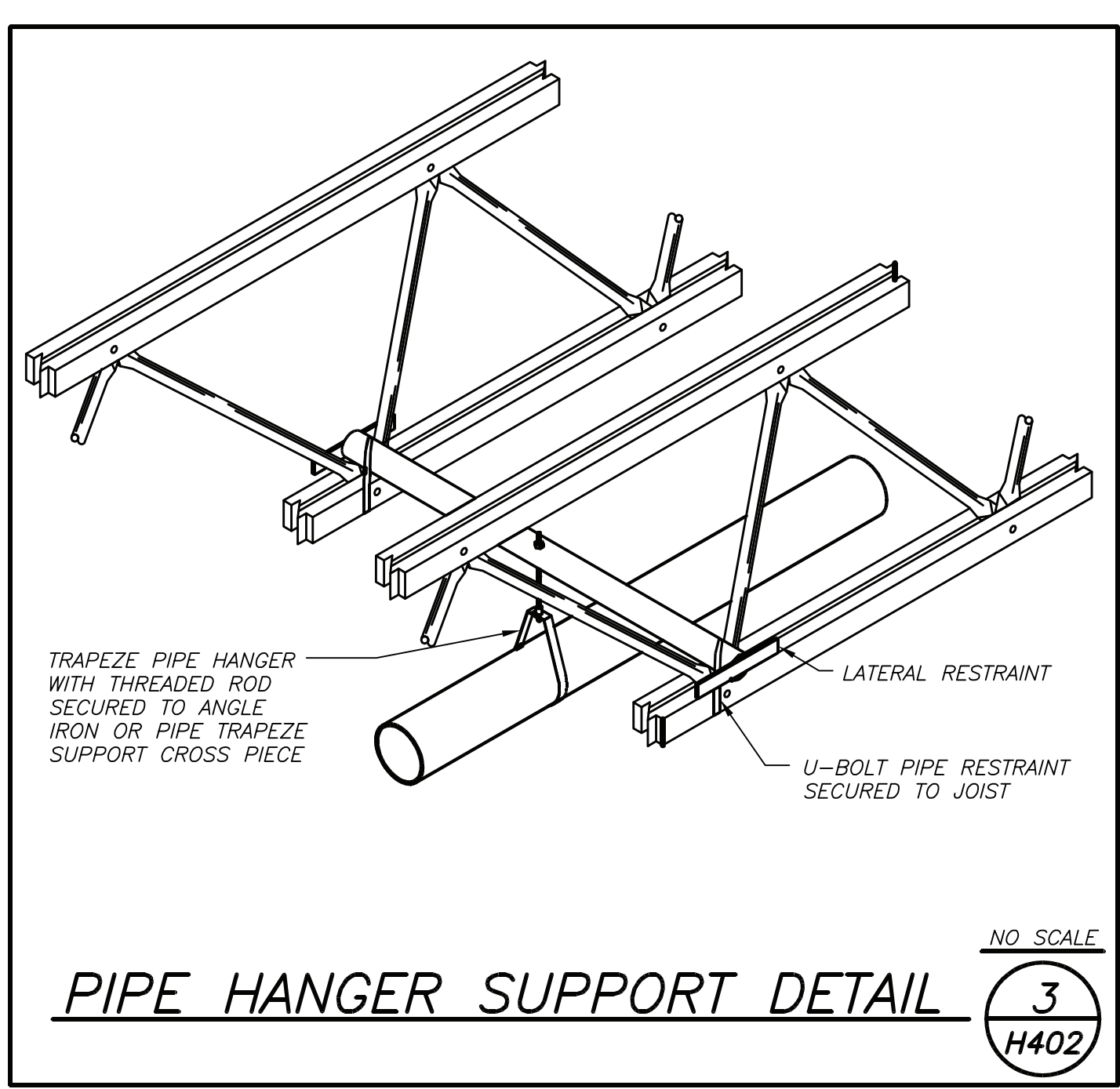
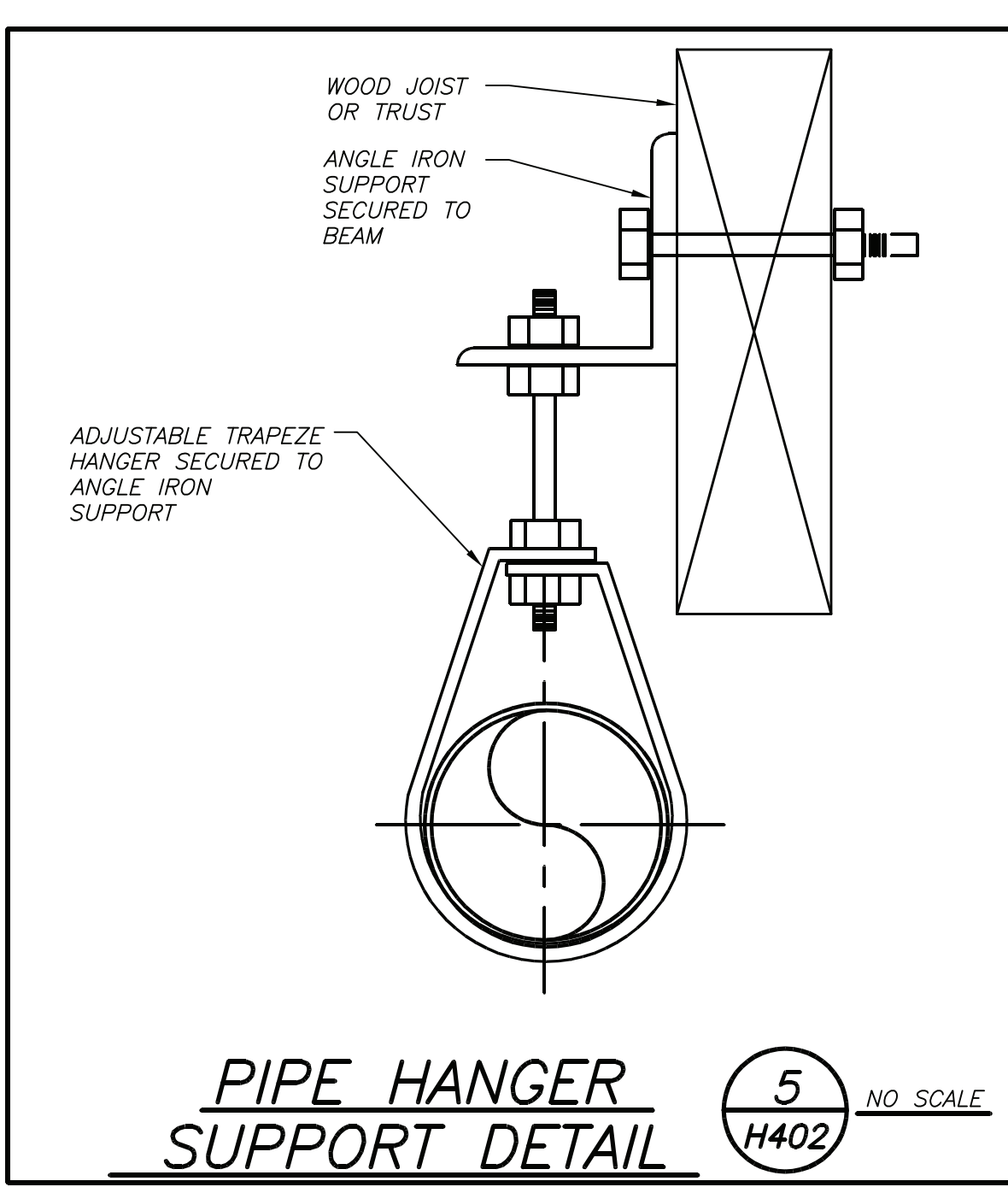
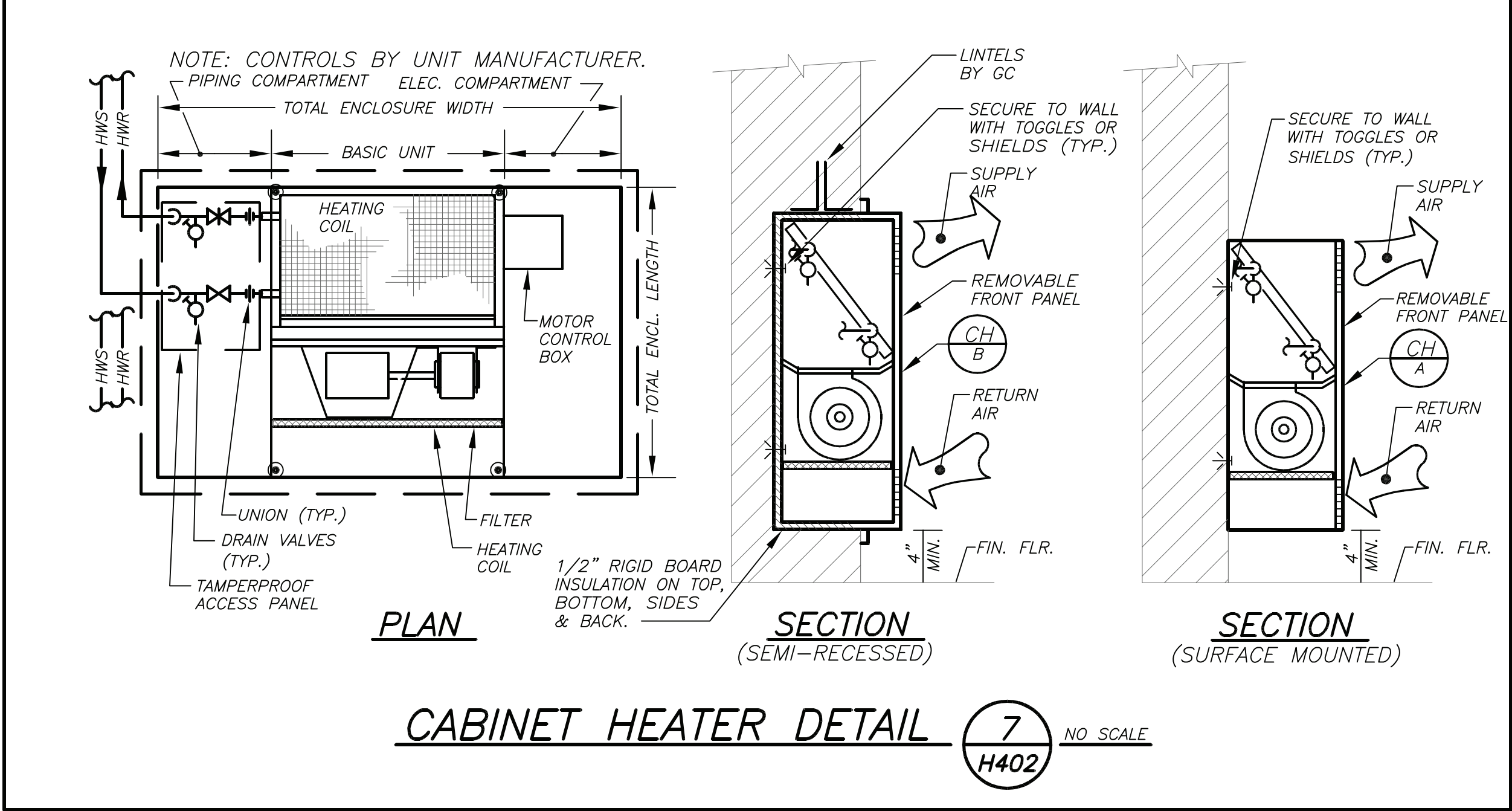
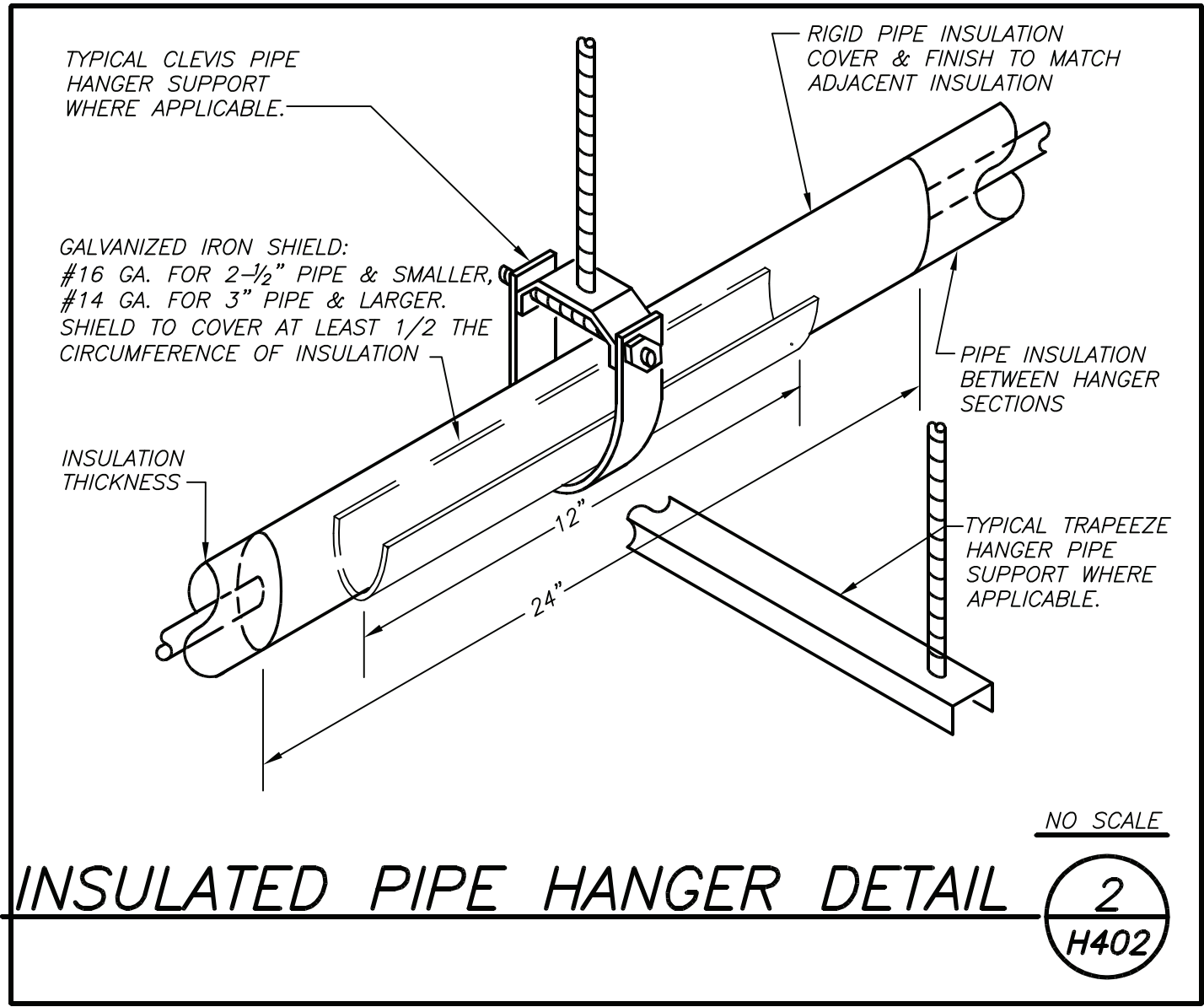
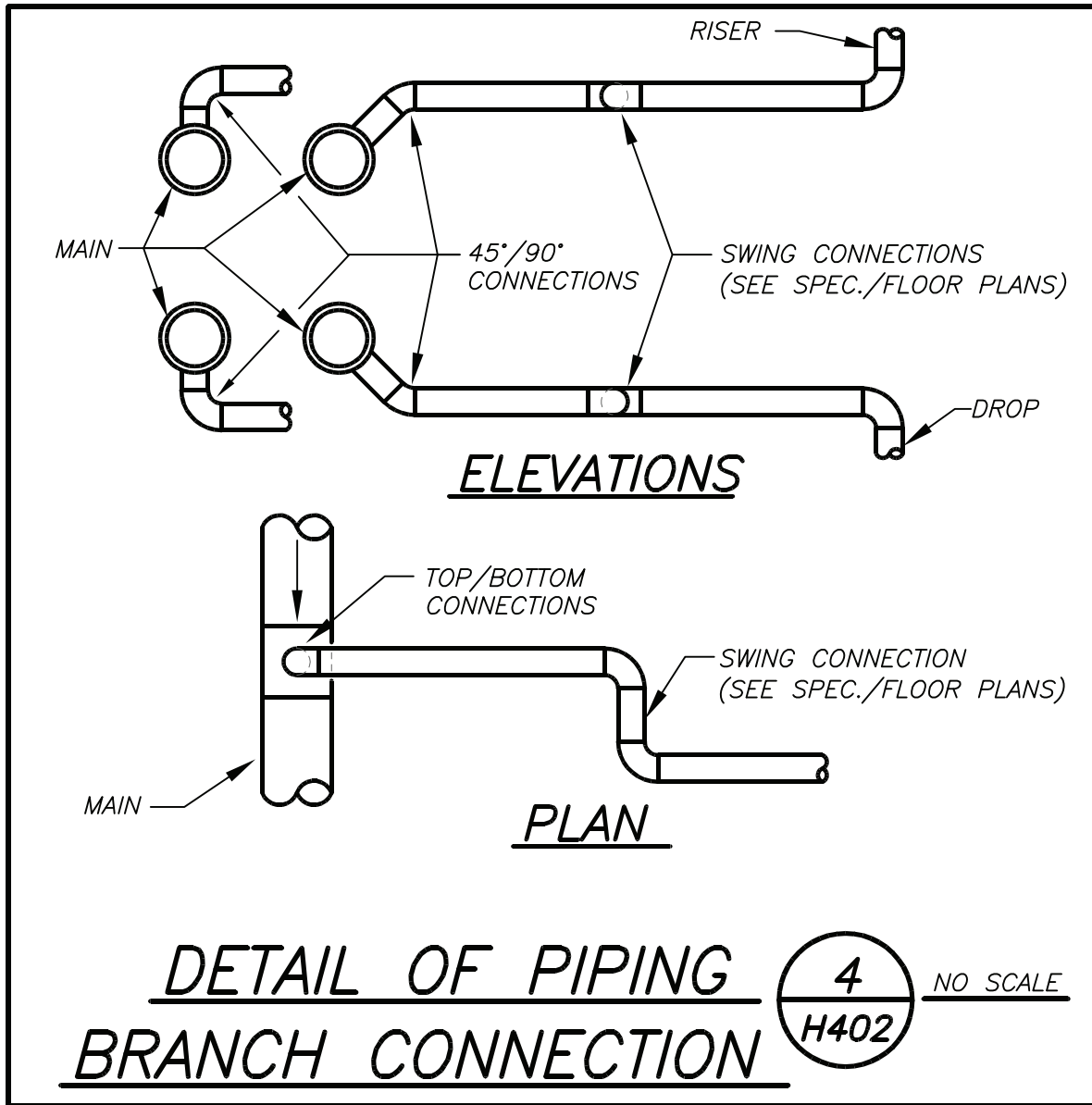
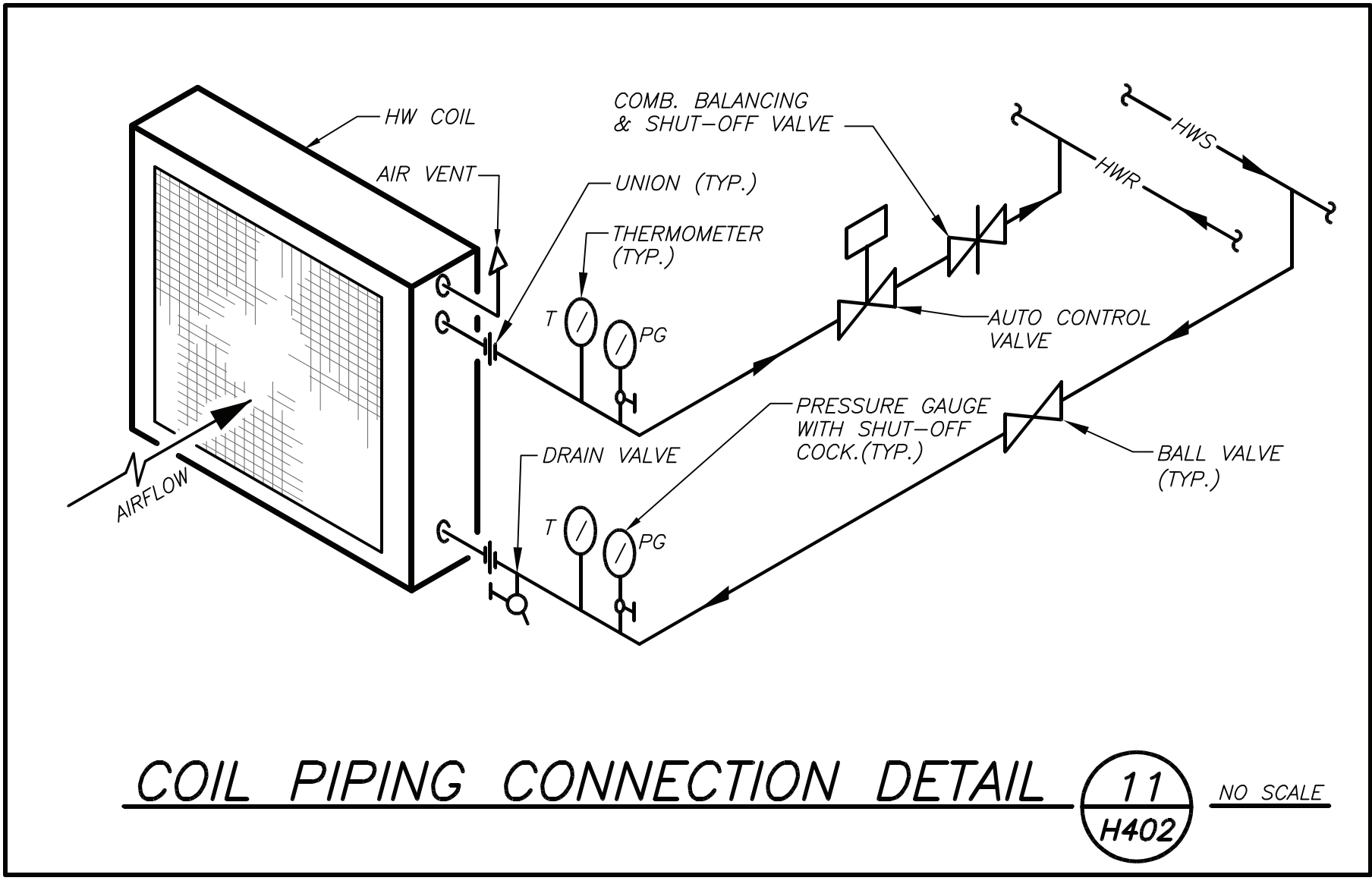
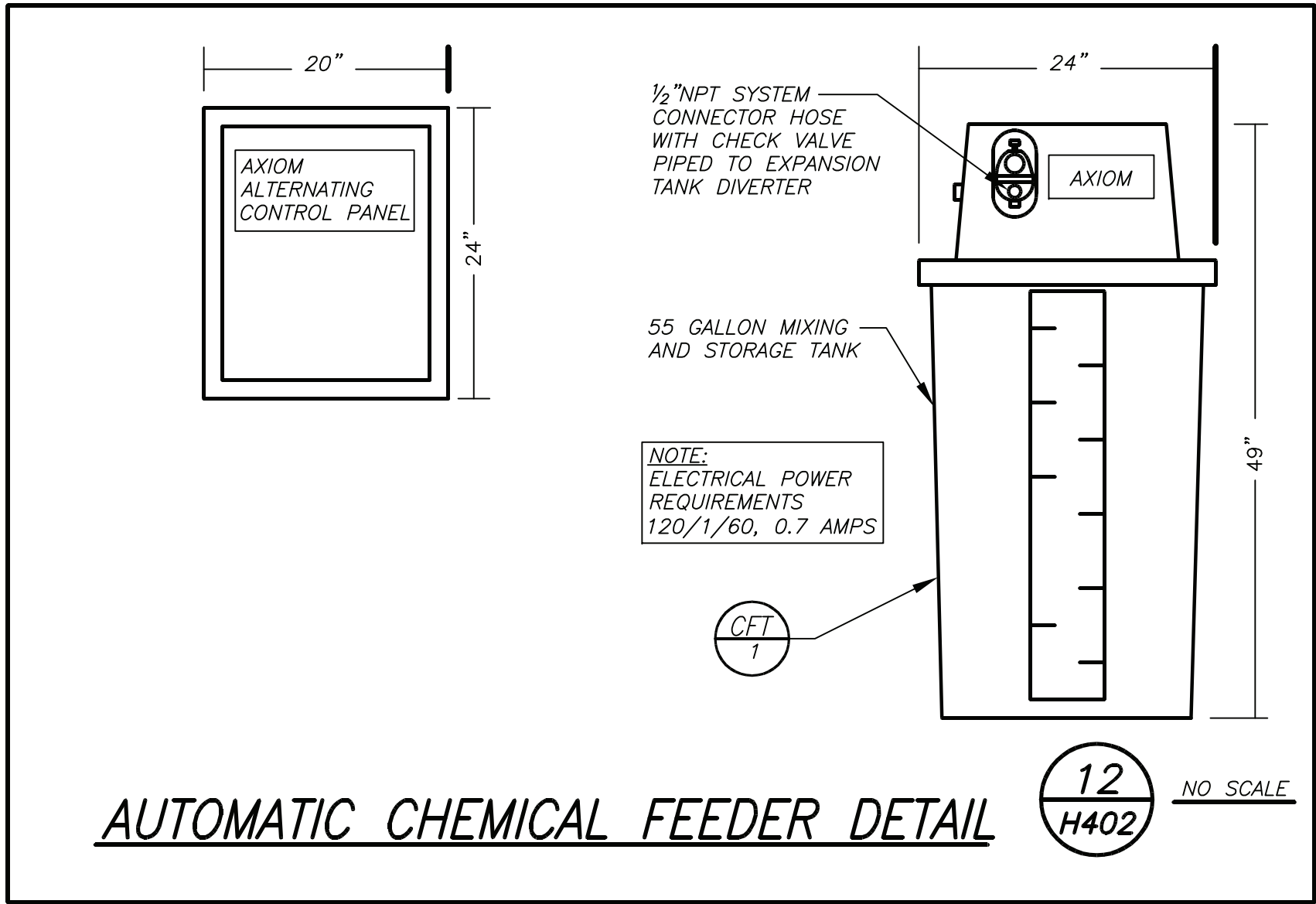
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FILE NO:
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DRAWING NO:
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PLOT DATE: October 20, 2022 1:05pm



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S.E.D. CONTROL NUMBER:
66-23-00-01-0-029-012

YPS JOB # 10878

PROJECT: YONKERS SCHOOL DISTRICT
PS 29 BOILER REPLACEMENT HVAC UPGRADES & ASBESTOS ABATEMENT
47 CROTON ROAD, YONKERS, N.Y. 10710
DRAWING TITLE: DETAILS

10-21-2022 BID
11-06-2020 100% C.D. SUBMISSION
06-01-2020 100% D.D. SUBMISSION
05-01-2020 50% D.D. SUBMISSION
DATE ISSUED TO
SHEET SIZE 30"x42"
SCALE AS NOTED
DRAWN BY BGA
FILE NO. 19359.00

PLOT DATE: October 20, 2022 1:05pm

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