

1 Electrical Main Distribution Riser Diagram E.0.1 N.T.S.

MOUNTING: MAINS	SURFACE			MANUF	ACTURI	ER & MC	DEL:	CUTL	ER HAM	MER,#PO	W-R-LINE 3a			
					GE CLA		TION:			PHASE,4 V	VIRE			
	400 A MLO				ULLY RA	ATED):		65 klC	(Minimu	ım)				
200%				SPD:			245 10			<u> </u>			- 41/55	
BREA	KER				Р	HASE L	DAD - KI	W				BRI	EAKER	
# TRIP RATI	POLES	LOAD DESCRIPTION	LOAD KW	4	A	ı	3	(С	LOAD KW	LOAD DESCRIPTION	POLES	TRIP RATI	#
1 100 A	3	40 HP PUMP (LEAD)	54.00	18	0					0.00	40 HP PUMP (LAG)	3	100 A	2
3						18	0							4
5								18	0					6
7 20 A	3	NEW BOILER	13.30	4.43	4.43					13.30	NEW BOILER	3	20 A	8
9	-					4.43	4.43							10
11								4.43	4.43					12
13 20 A	3	NEW BOILER	13.30	4.43	0.41					0.41	Lighting	1	20 A	14
15	-					4.43	1.33			3.99	Ex Base Mounted Pump 3HP	3	20 A	16
17								4.43	1.33					18
19 20 A	3	EXISTING 5HP PUMP	6.32	2.11	1.33									20
21	-					2.11	1.33			3.99	Ex Base Mounted Pump 3HP	3	20 A	22
23	-							2.11	1.33					24
25 20 A	3	EXISTING 5HP PUMP	6.32	2.11	1.33									26
27						2.11	0			0.00	7.5 HP PUMP (LAG)	3	30 A	28
29								2.11	0					30
31 30 A	3	7.5 HP PUMP (LEAD)	9.13	3.04	0									32
33						3.04								34
35								3.04						36
37														38
39														40
41														42
		TOTAL LOAD P	ER PHASE:	41	.62	41	.21	41	.21		TOTAL LOAD ON PANEL	124.04 149 A		KW AMPS

POLES 1 3	LOAD DESCRIPTION Receptacles	LOAD		Р	PHASE L	ΩΔD - K							
1 3						UAD - 11	W				BRE	AKER	
3	Receptacles	KW	1	Δ.	ı	3			LOAD KW	LOAD DESCRIPTION	POLES	TRIP RATI	#
	_ ==	1.68	1.68	0.9					2.69	EX AIR COMPRESSOR (3HP)	3	20 A	2
	EXISTING (2) 1/2HP PUMPS	1.66			0.55	0.9							4
							0.55	0.9					6
			0.55										8
2	EXISTING DOMESTIC W.H.	2.00			1								10
							1						12
2	RE-FEED EXISTING RANGE	8.00	4	2.5					5.00	RE-FEED EXISTING DRYER	2	30 A	14
					4	2.5							16
1	RE-FEED EXISTING WASHER	0.83					0.83	1	1.00	RE-FEED EXISTING EXTERIOR	1	20 A	18
1	RE-FEED LOUVER MOTOR	0.83	0.83	1					1.00	RE-FEED EXISTING DIGISPAN	1	20 A	20
1	RE-FEED EXISTING HEAT TIMER	1.00			1	1			1.00	RE-FEED EXISTING ATC	1	20 A	22
2	RE-FEED EXISTING SITE LIGHTS	2.00					1	1	3.00	RE-FEED EXIST UNKNOWN	3	20 A	24
			1	1									26
3	RE-FEED EXISTING VACUUM	3.00			1	1							28
							1	1	3.00	RE-FEED EXIST UNKNOWN	3	20 A	30
			1	1									32
1	RE-FEED EXIST MOTORIZED	0.00			0	1							34
1	Temperature Controls	1.20					1.2	0.53	0.53	Boiler Rm Unit Heaters	1	20 A	36
1	Temperature Controls	1.20	1.2	1.2					1.20	Temperature Controls	1	20 A	38
1	Temperature Controls	1.20			1.2	1.2			1.20	Temperature Controls	1	20 A	40
1	Temperature Controls	1.20					1.2	1.2	1.20	Temperature Controls	1	20 A	42
1	Temperature Controls	1.20	1.2	1.2					1.20	Temperature Controls	1	20 A	44
1	Temperature Controls	1.20			1.2	1.2			1.20	Temperature Controls	1	20 A	46
1	Spare						0	0		Spare	1	20 A	48
1	Spare		0	0						Spare	1	20 A	50
1	Spare				0	0				Spare	1	20 A	52
1	Spare						0	0		Spare	1	20 A	54
1	Spare		0	0						Spare	1	20 A	56
-	Space				0	0				Space			58
	Space						0	0		Space			60
	Space		0	0						Space			62
	Space				0	0				Space			64
	Space						0	0		Space			66
	Space		0	0						Space			68
	Space				0	0				Space			70
	Space						0	0		Space			72
	Space		0	0						Space			74
	Space				0	0				Space			76
	Space						0	0		Space			78
	Space		0	0						Space			80
	Space				0	0				Space			82
	Space						0	0		Space			84
	TOTAL LOAD PER	PHASE:	20	.26	18	.75	12	.41		TOTAL LOAD ON PANEL	51.42 143 A		KW AMPS
	1 1 2 3 1 1 1 1 1 1 1 1 1 1 1	1 RE-FEED LOUVER MOTOR 1 RE-FEED EXISTING HEAT TIMER 2 RE-FEED EXISTING SITE LIGHTS 3 RE-FEED EXISTING VACUUM 1 RE-FEED EXIST MOTORIZED 1 Temperature Controls 1 Spare 1 Spare 1 Spare 1 Spare 1 Spare 1 Spare 2 Space	1 RE-FEED LOUVER MOTOR 0.83 1 RE-FEED EXISTING HEAT TIMER 1.00 2 RE-FEED EXISTING SITE LIGHTS 2.00	1 RE-FEED LOUVER MOTOR 0.83 0.83 1 RE-FEED EXISTING HEAT TIMER 1.00 2 RE-FEED EXISTING SITE LIGHTS 2.00 1 3 RE-FEED EXISTING VACUUM 3.00 1 1 RE-FEED EXIST MOTORIZED 0.00 1 1 Temperature Controls 1.20 1.20 1 Temperature Controls 1.20 1.2 1 Spare 0 1 Spare 0 1 Spare 0 1 Space 0 Space 0 Space 0 Space <td< th=""><th>1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 RE-FEED EXISTING HEAT TIMER 1.00 1 2 RE-FEED EXISTING SITE LIGHTS 2.00 </th><th>1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 RE-FEED EXISTING HEAT TIMER 1.00 1 2 RE-FEED EXISTING SITE LIGHTS 2.00 1 1 3 RE-FEED EXISTING VACUUM 3.00 1 1 1 1 1 1 RE-FEED EXIST MOTORIZED 0.00 0 1 Temperature Controls 1.20 1.2 1 Temperature Controls 1.20 1.2 1.2 1 Spare 0 0 1 Spare 0 0 1 Space <t< th=""><th>1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 RE-FEED EXISTING HEAT TIMER 1.00 1 1 2 RE-FEED EXISTING SITE LIGHTS 2.00 </th><th>1 RE-FEED LOUVER MOTOR 0.83 0.83 1 2 1 2 1<!--</th--><th> 1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 1 1 1 1 1 1 1 </th><th> 1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 1 1 1.00 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1 1 1 1 1 </th><th> 1 RE-FEED LOUVER MOTOR</th><th> 1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 1 1 1 1 1 1 1 </th><th> Total Load Per Phase 1</th></th></t<></th></td<>	1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 RE-FEED EXISTING HEAT TIMER 1.00 1 2 RE-FEED EXISTING SITE LIGHTS 2.00	1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 RE-FEED EXISTING HEAT TIMER 1.00 1 2 RE-FEED EXISTING SITE LIGHTS 2.00 1 1 3 RE-FEED EXISTING VACUUM 3.00 1 1 1 1 1 1 RE-FEED EXIST MOTORIZED 0.00 0 1 Temperature Controls 1.20 1.2 1 Temperature Controls 1.20 1.2 1.2 1 Spare 0 0 1 Spare 0 0 1 Space <t< th=""><th>1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 RE-FEED EXISTING HEAT TIMER 1.00 1 1 2 RE-FEED EXISTING SITE LIGHTS 2.00 </th><th>1 RE-FEED LOUVER MOTOR 0.83 0.83 1 2 1 2 1<!--</th--><th> 1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 1 1 1 1 1 1 1 </th><th> 1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 1 1 1.00 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1 1 1 1 1 </th><th> 1 RE-FEED LOUVER MOTOR</th><th> 1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 1 1 1 1 1 1 1 </th><th> Total Load Per Phase 1</th></th></t<>	1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 RE-FEED EXISTING HEAT TIMER 1.00 1 1 2 RE-FEED EXISTING SITE LIGHTS 2.00	1 RE-FEED LOUVER MOTOR 0.83 0.83 1 2 1 2 1 </th <th> 1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 1 1 1 1 1 1 1 </th> <th> 1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 1 1 1.00 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1 1 1 1 1 </th> <th> 1 RE-FEED LOUVER MOTOR</th> <th> 1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 1 1 1 1 1 1 1 </th> <th> Total Load Per Phase 1</th>	1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 1 1 1 1 1 1 1	1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 1 1 1.00 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1.00 1.00 1 1 1 1 1 1 1 1 1	1 RE-FEED LOUVER MOTOR	1 RE-FEED LOUVER MOTOR 0.83 0.83 1 1 1 1 1 1 1 1 1	Total Load Per Phase 1

DLE SCHOOI

VERSION

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MARCH 23, 2020 🛕

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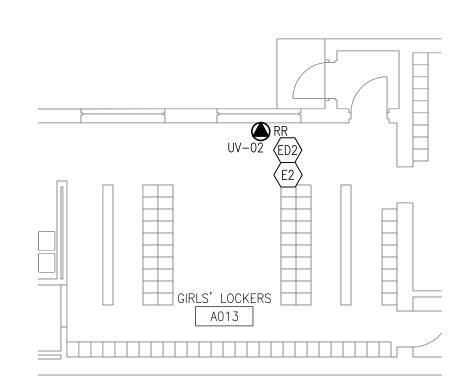
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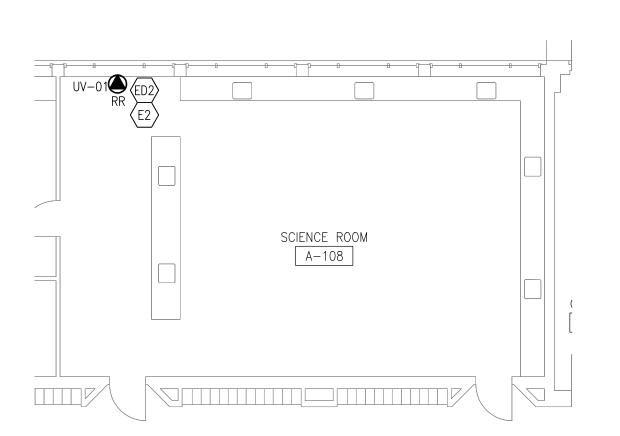
ELECTRICAL RISER DIAGRAM

DATE 11/01/2018

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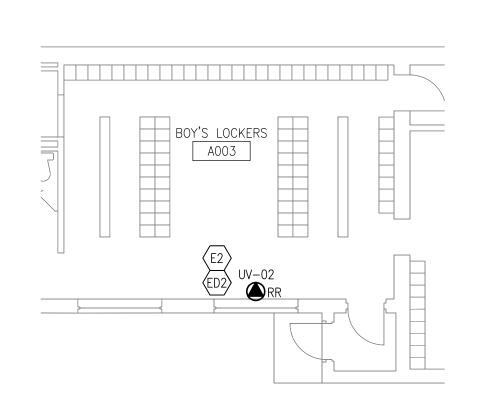


BASEMENT PART PLAN -GIRLS LOCKER RM A013 -ELECTRICAL NEW AND DEMOLITION WORK (PHASE 1) SCALE: 1/8"=1'-0"



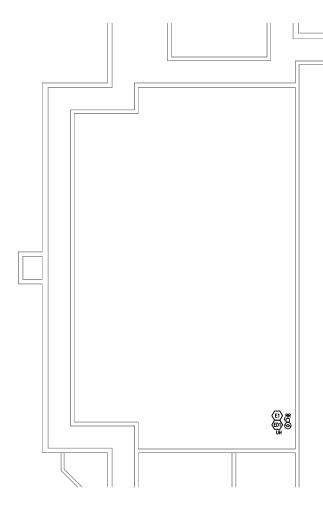
4 BASEMENT PART PLAN -MATH - A110 - ELECTRICAL NEW AND DEMOLITION WORK (PHASE 1)

SCALE: 1/8"=1'-0"



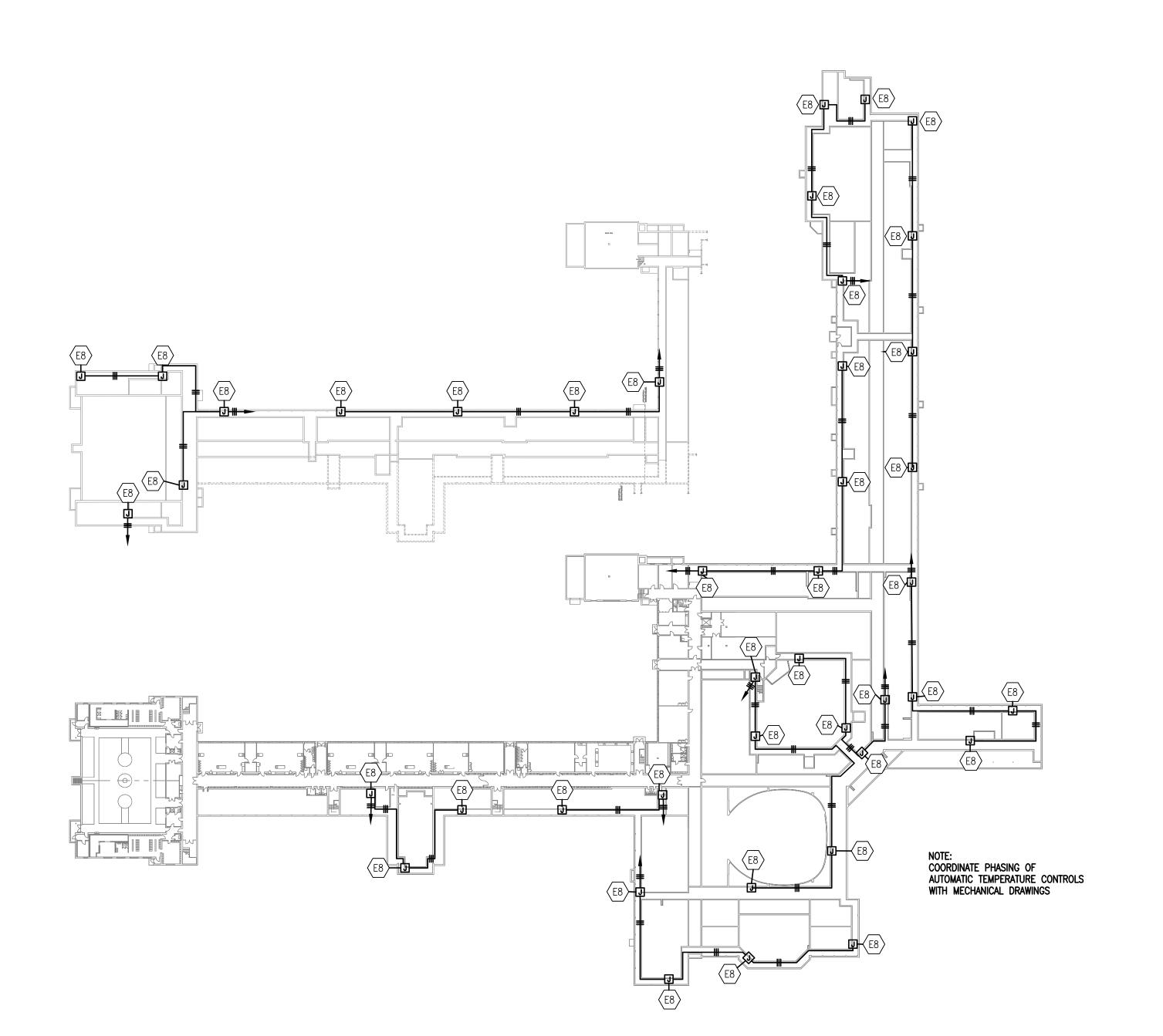
2 BASEMENT PART PLAN -BOYS LOCKER RM A003 - ELECTRICAL NEW AND DEMOLITION WORK (PHASE 1)

SCALE: 1/8"=1'-0"



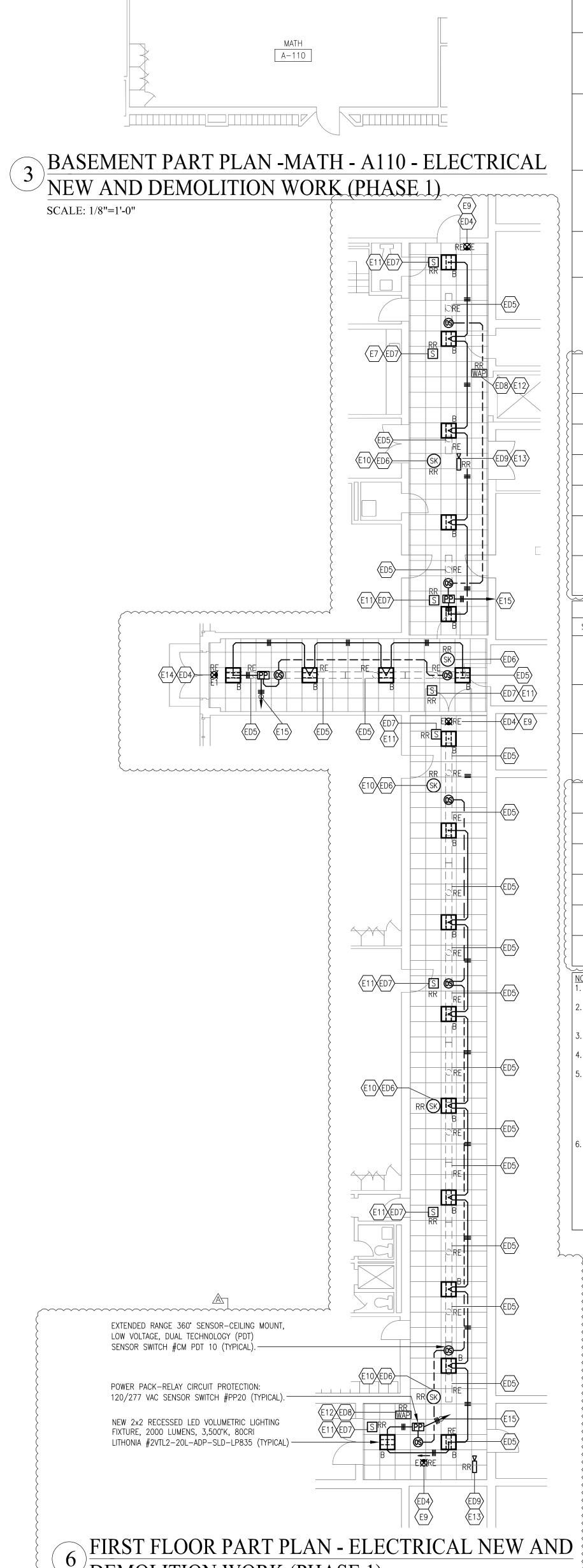
5 BASEMENT PART PLAN -TUNNEL AREA - ELECTRICAL NEW AND DEMOLITION WORK (PHASE 1)

SCALE: 1/8"=1'-0"



5 BASEMENT PART PLAN -TUNNEL AREA - POWER FOR HVAC CONTROL PANELS

SCALE: 1/64"=1'-0"



DEMOLITION WORK (PHASE 1)

SCALE: 1/8"=1'-0"

NEW UNIT HEATER AT EXISTING LOCATION (BY M.C.) E.C. SHALL PROVIDE NEW THERMAL OVERLOAD SWITCH AND CONNECT NEW UNIT HEATER TO EXISTING BRANCH CIRCUIT, EXTEND NEW MATCHING WIRING & CONDUIT PROVIDE ALL NECESSARY MATERIALS & LABOR NECESSARY FOR A COMPLETE INSTALLATION (TYPICAL FOR ALL UNIT VENTILATORS, COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS AND FIELD CONDITIONS). NEW UNIT VENTILATOR AT EXISTING LOCATION (BY M.C.) E.C. SHALL PROVIDE NEW MOTOR RATED SWITCH AND CONNECT NEW UNIT VENTILATOR TO EXISTING BRANCH CIRCUIT, EXTEND NEW MATCHING WIRING & CONDUIT, PROVIDE ALL NECESSARY MATERIALS & LABOR NECESSARY FOR A COMPLETE INSTALLATION (TYPICAL FOR ALL UNIT VENTILATORS, COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS AND FIELD CONDITIONS) NEW CABINET UNIT HEATER AT EXISTING LOCATION (BY M.C.) E.C. SHALL PROVIDE NEW THERMAL OVERLOAD SWITCH AND CONNECT NEW CABINET UNIT HEATER TO EXISTING BRANCH CIRCUIT, EXTEND NEW MATCHING WIRING & CONDUIT, PROVIDE ALL NECESSARY MATERIALS & LABOR NECESSARY FOR A COMPLETE INSTALLATION TYPICAL FOR ALL CABINET UNIT HEATERS, COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS AND NEW CIRCULATOR PUMP FOR NEW HOT WATER COIL (BY M.C.) E.C SHALL PROVIDE NEW 20A MOTOR RATED SWITCH AND CONNECT TO NEW PUMP AND EXTEND 2#12, 1#12G IN 3/4" CONDUIT FROM NEW SWITCH TO NEAREST 120/208V PANEL (WITHIN 100') & CONNECT TO NEW 1P-20A CIRCUIT BREAKER. E.C. SHALL PROVIDE NEW CIRCUIT BREAKER IN EXISTING BLANK SPACE. NEW CIRCUIT BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING (COORDINATE WITH FIELD CONDITIONS). NEW CIRCULATOR PUMP FOR NEW HOT WATER COIL (BY M.C.) REPLACING EXISTING, E.C. SHALL DISCONNECT

ELECTRICAL KEY NOTES (NEW WORK)

DESCRIPTION OF WORK

NEW CIRCULATOR PUMP FOR NEW HOT WATER COIL (BY M.C.) REPLACING EXISTING, E.C. SHALL DISCONNECT ELECTRICAL AND MAKE SAFE FOR REMOVAL. E.C SHALL PROVIDE NEW 20A MOTOR RATED SWITCH AND RECONNECT TO EXISTING BRANCH CIRCUIT, RE-WORK TO NEW UNIT AND CONNECT (MAINTAIN CONTINUITY) IF EXISTING CIRCUIT IS OTHER THAN 1P-20A THIS CONTRACTOR SHALL PROVIDE NEW 1P-20A ENCLOSED CIRCUIT BREAKER ADJACENT TO EXISTING ELECTRIC PANEL (VERIFY EXACT LOCATION IN FIELD) TAP EXISTING PANEL BUS WITH 2#12, 1#12G IN 3/4"C TAP LENGTH NOT TO EXCEED 10". NEW CIRCUIT BREAKER SHALL MATCH EXISTING PANEL AIC RATING.

NEW CIRCULATOR PUMP FOR NEW HOT WATER COIL (BY M.C.) E.C SHALL PROVIDE NEW 20A MOTOR RATED SWITCH AND CONNECT TO NEW PUMP AND EXTEND 2#10, 1#10G IN 3/4" CONDUIT FROM NEW SWITCH TO NEAREST 120/208V PANEL (WITHIN 100') & CONNECT TO NEW 1P-30A CIRCUIT BREAKER. E.C. SHALL PROVIDE NEW CIRCUIT BREAKER IN EXISTING BLANK SPACE. NEW CIRCUIT BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING (COORDINATE WITH FIELD CONDITIONS).

NEW CIRCULATOR PUMP FOR NEW HOT WATER COIL (BY M.C.) E.C SHALL PROVIDE NEW 20A MOTOR RATED SWITCH AND CONNECT TO NEW PUMP AND EXTEND 2#12, 1#12G IN 3/4" CONDUIT FROM NEW SWITCH TO NEW ENCLOSED CIRCUIT BREAKER & CONNECT.

NEW JUNCTION BOX WITH 3/4" CONDUIT AND 1P-20A CIRCUIT FOR AUTOMATIC TEMPERATURE CONTROL
CONTROLLERS (COORDINATE EXACT LOCATION AND QUANTITIES WITH MECHANICAL CONTRACTOR) E.C. SHALL
EXTEND NEW 20A CIRCUIT FROM JUNCTION BOXES BACK TO NEW ELECTRICAL PANEL BLV AND CONNECT AS
REQUIRED (MAXIMUM OF 4 JUNCTION BOXES PER CIRCUIT). WIRE SIZE SHALL BE SUCH THAT MAXIMUM
VOLTAGE DROP DOES NOT EXCEED 3%, VERIFY CONTROLLER LOADS WITH EQUIPMENT SUPPLIER AND INSTALLED
CONDUIT DISTANCES WITH FIELD CONDITIONS AND INCLUDE CALCULATIONS WITH ELECTRICAL SUBMITTALS FOR
APPROVAL PRIOR TO ROUGHING.

PROVIDE NEW SINGLE FACE EDGE LIT LED EXIT SIGN LIGHT, WITH 6" RED LETTERING "EXIT", MIRRORED BACKGROUND AND INTEGRAL 90 MINUTE BATTERY BACKUP

BEGHELLI #0L2-SA-LR-1-M-CR-BA-AT

REINSTALL EXISTING CEILING MOUNTED SPEAKER IN NEW ACT CEILING, EXTEND NEW MATCHING WIRING AS REQUIRED AND CONNECT AS REQUIRED TO MAINTAIN CONTINUITY (COMPLETE).

REINSTALL EXISTING CEILING MOUNTED SMOKE DETECTOR IN NEW ACT CEILING, EXTEND NEW MATCHING WIRING AS REQUIRED AND CONNECT AS REQUIRED TO MAINTAIN CONTINUITY (COMPLETE).

REINSTALL EXISTING CEILING MOUNTED WIRELESS ACCESS POINT (WAP) IN NEW ACT CEILING, EXTEND NEW MATCHING WIRING AS REQUIRED AND CONNECT AS REQUIRED TO MAINTAIN CONTINUITY (COMPLETE).

REINSTALL EXISTING CEILING MOUNTED SECURITY CAMERA IN NEW ACT CEILING, EXTEND NEW MATCHING WIRING

PROVIDE NEW SINGLE FACE EDGE LIT LED EXIT SIGN LIGHT, WITH 6" RED LETTERING "EXIT" & 6" HANDICAP ACCESSIBLE SYMBOL, MIRRORED BACKGROUND AND INTEGRAL 90 MINUTE BATTERY BACKUP BEGHELLI #0L2-SA-LR-1-M-CR--SWCT-BA-AT

AS REQUIRED AND CONNECT AS REQUIRED TO MAINTAIN CONTINUITY (COMPLETE).

EXTEND 2#12, 1#12G IN 3/4"C TO EXISTING LIGHTING BRANCH CIRCUIT MADE AVAILABLE BY REMOVAL OF EXISTING LIGHTING AND CONNECT AS REQUIRED, EXISTING SWITCHING TO REMAIN WIRE NEW OCCUPANCY SENSORS SO THAT EXISTING SWITCHING TURNS LIGHTS OFF, OCCUPANCY SENSORS SHALL REDUCE LIGHT LEVEL BY 50% WHEN SPACE IS UNOCCUPIED

ELECTRICAL KEY NOTES (DEMOLITION)

DESCRIPTION OF WORK

EXISTING UNIT HEATER TO BE DISCONNECTED, REMOVED AND REPLACED WITH NEW (BY M.C.) E.C. SHALL DISCONNECT EXISTING ELECTRICAL AS REQUIRED FOR REMOVAL, MAKE SAFE ALL EXISTING WIRING. (TYPICAL FOR ALL UNIT VENTILATORS, COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS AND FIELD CONDITIONS).

EXISTING UNIT VENTILATOR TO BE DISCONNECTED, REMOVED AND REPLACED WITH NEW (BY M.C.) E.C. SHALL DISCONNECT EXISTING ELECTRICAL AS REQUIRED FOR REMOVAL, MAKE SAFE ALL EXISTING WIRING (TYPICAL FOR ALL UNIT VENTILATORS, COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS AND FIELD

DISCONNECT EXISTING ELECTRICAL AS REQUIRED FOR REMOVAL, MAKE SAFE ALL EXISTING WIRING (TYPICAL FOR ALL UNIT VENTILATORS, COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS AND FIELD CONDITIONS).

EXISTING CABINET UNIT HEATER TO BE DISCONNECTED, REMOVED AND REPLACED WITH NEW (BY M.C.) E.C. SHALL DISCONNECT EXISTING ELECTRICAL AS REQUIRED FOR REMOVAL, MAKE SAFE EXISTING WIRING.(TYPICAL

FOR ALL CABINET UNIT HEATERS, COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS AND FIELD CONDITIONS).

EXISTING EXIT SIGN TO BE DISCONNECTED, REMOVED AND REPLACED WITH NEW, MAKE SAFE EXISTING WIRING.

EXISTING CEILING MOUNTED LIGHTING FIXTURE AND ALL ASSOCIATED OBSOLETE WIRING TO BE DISCONNECTED, REMOVED AND REPLACED WITH NEW, MAKE SAFE EXISTING WIRING.

EXISTING CEILING MOUNTED SPEAKER TO BE DISCONNECTED, REMOVED AND REPLACED, MAKE SAFE EXISTING WIRING.

EXISTING CEILING MOUNTED SMOKE DETECTOR TO BE DISCONNECTED, REMOVED AND REINSTALLED, MAKE SAFE EXISTING WIRING.

EXISTING WIRELESS ACCESS POINT (WAP) TO BE DISCONNECTED, REMOVED AND REINSTALLED, MAKE SAFE EXISTING WIRING

EXISTING SECURITY CAMERA TO BE DISCONNECTED, REMOVED AND RE-INSTALLED, MAKE SAFE EXISTING WIRING.

1. SEE SYMBOLS, SCHEDULES, NOTES & DETAILS.

2. E.C. SHALL RE-WIRE EXISTING EQUIPMENT BEING REPLACED WITH NEW, COORDINATE FINAL QUANTITY AND LOCATION OF ALL EQUIPMENT WITH MECHANICAL DRAWINGS AND FIELD CONDITIONS.

3. PROVIDE A SEPARATE NEUTRAL WIRE FOR EACH CIRCUIT.

4. PROVIDE A SEPARATE GROUND WIRE IN EACH CONDUIT.

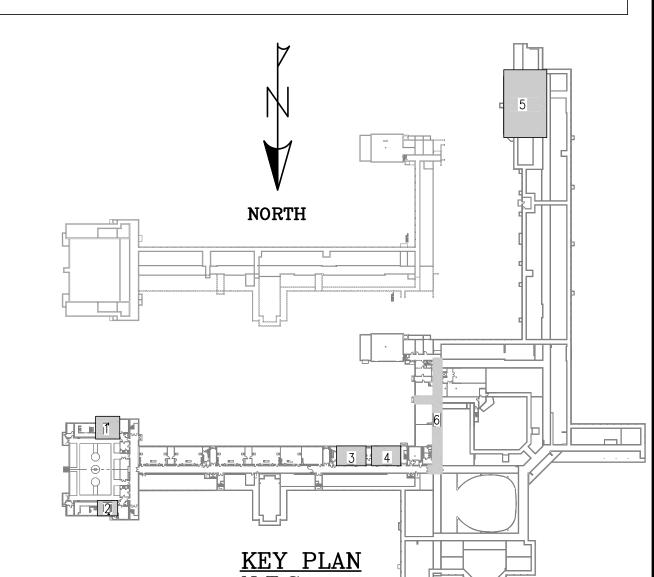
WHERE EXISTING EQUIPMENT IS SUPPLIED BY METALLIC CONDUIT, THE CONDUIT MAY BE USED AS THE EQUIPMENT GROUND PER N.E.C. WHERE EXISTING EQUIPMENT BRANCH CIRCUITS DO NOT CONTAIN A SEPARATE GROUND (SUCH AS BX CABLE), THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW AS PART OF THE BASE CONTRACT. E.C. SHALL REMOVE AND REPLACE EXISTING BRANCH CIRCUIT BACK TO UPSTREAM PANELBOARD (COMPLETE) PROVIDE NEW MATCHING WIRING AND CONDUIT FROM PANELBOARD TO EQUIPMENT AND CONNECT. E.C. SHALL REMOVE ALL EXISTING ASSOCIATED OBSOLETE WIRING, CUT BACK CONDUIT TO STRUCTURE, CAP AND SECURE.

ALL NEW BRANCH CIRCUIT WIRING SHALL BE CONCEALED, CUT AND PATCH WALLS, FLOORS AND CEILINGS WHERE NECESSARY, WHERE CONCEALING NEW BRANCH CIRCUIT WIRING IS NOT PRACTICABLE, THIS CONTRACTOR SHALL PROVIDE THE FOLLOWING:

IN FINISHED OCCUPIED AREAS E.C. SHALL PROVIDE WIREMOLD DS4000 STEEL RACEWAY (COLOR TO MATCH SURROUNDINGS) COMPLETE WITH ALL ACCESSORIES.
 IN FINISHED UNOCCUPIED AREAS E.C. SHALL PROVIDE WIREMOLD V700 STEEL RACEWAY (COLOR TO MATCH

SURROUNDINGS) COMPLETE WITH ALL ACCESSORIES.

• IN UNFINISHED AREAS E.C. SHALL PROVIDE EMT CONDUIT.



BEMIS ASSOCIATES, L.L.C.
Consulting Engineers

MARCH 23, 2020 🛕

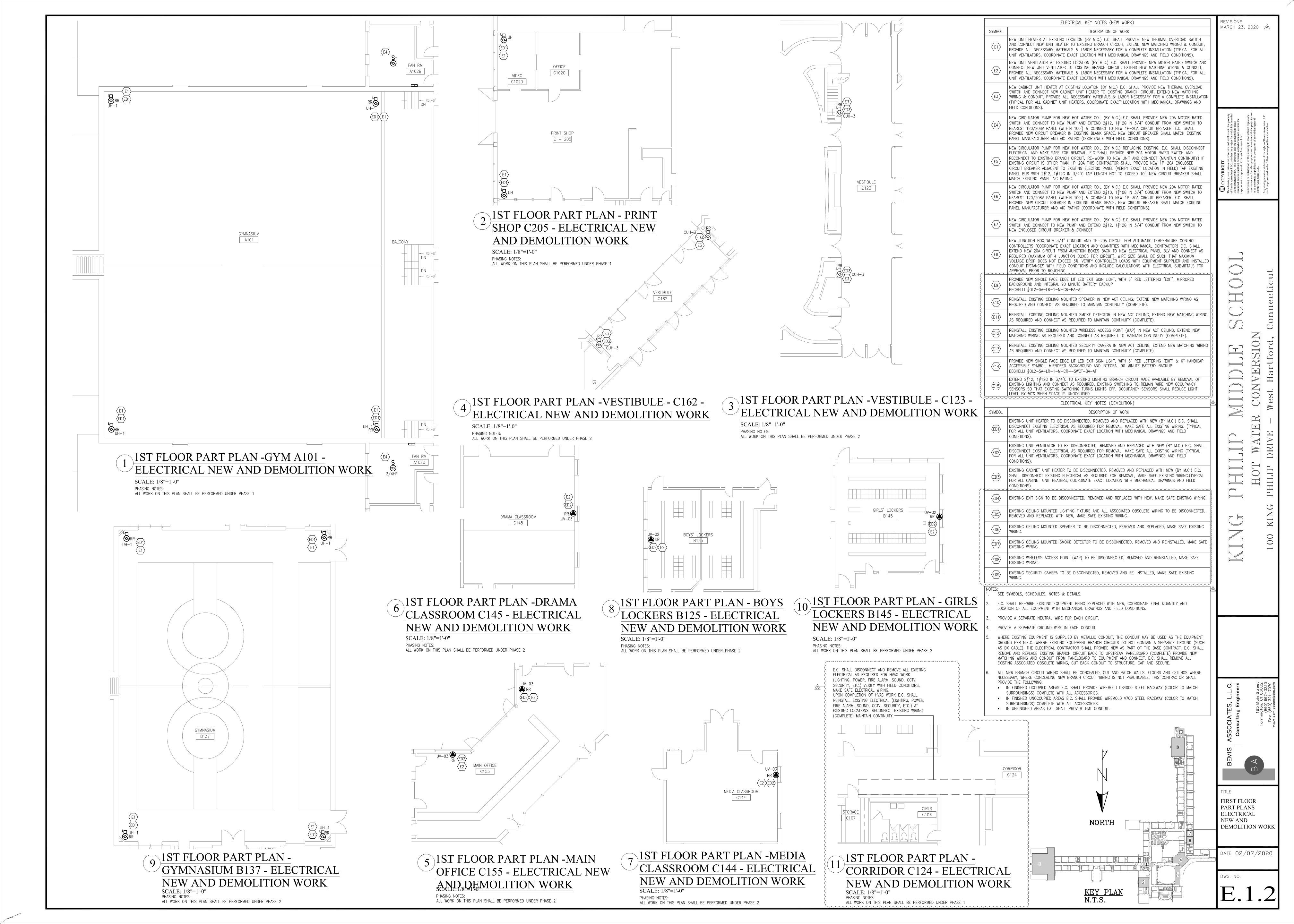
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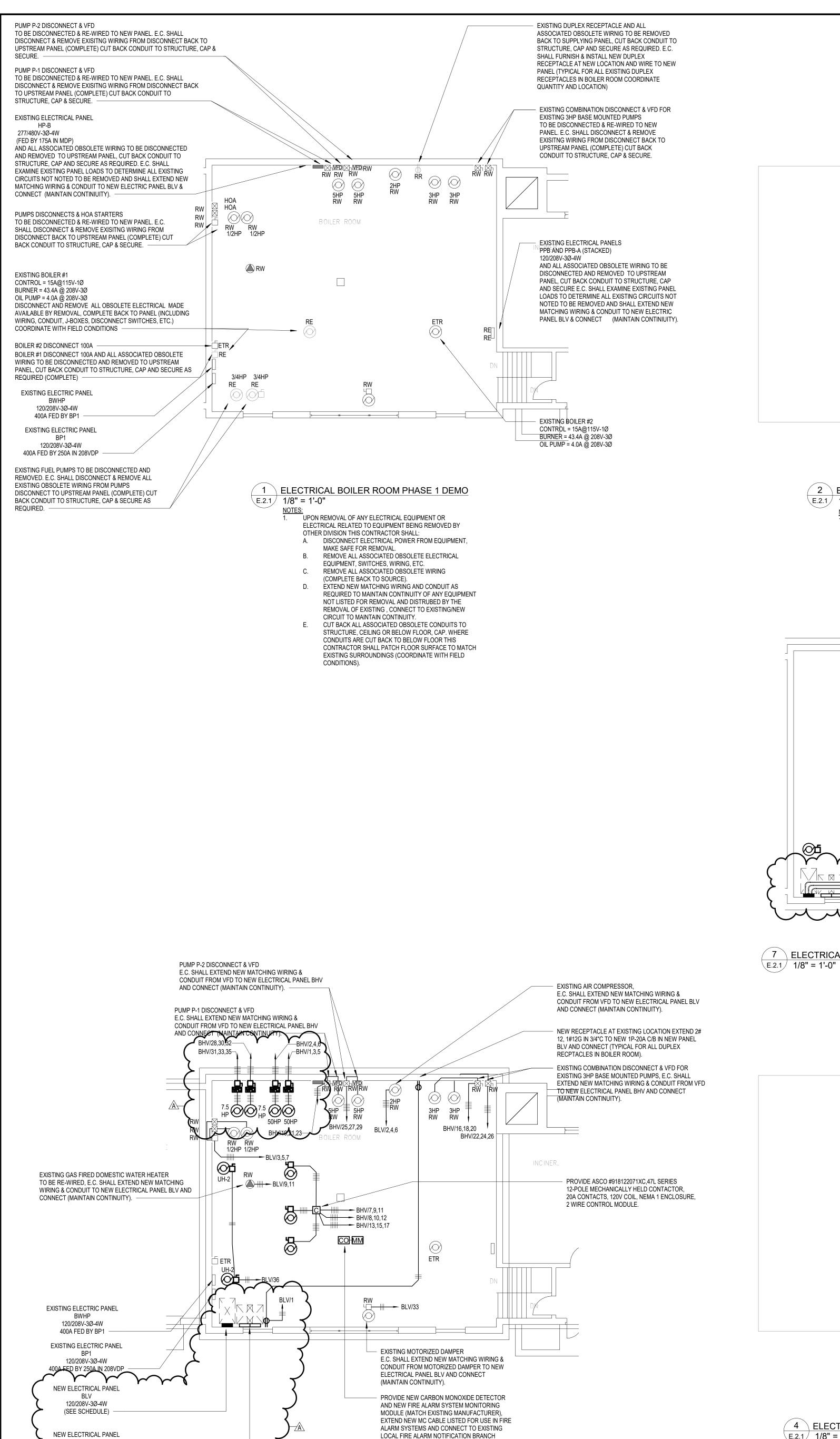
NEW AND
DEMOLITION WORK

DWG. NO.

DATE 02/07/2020

E.1.





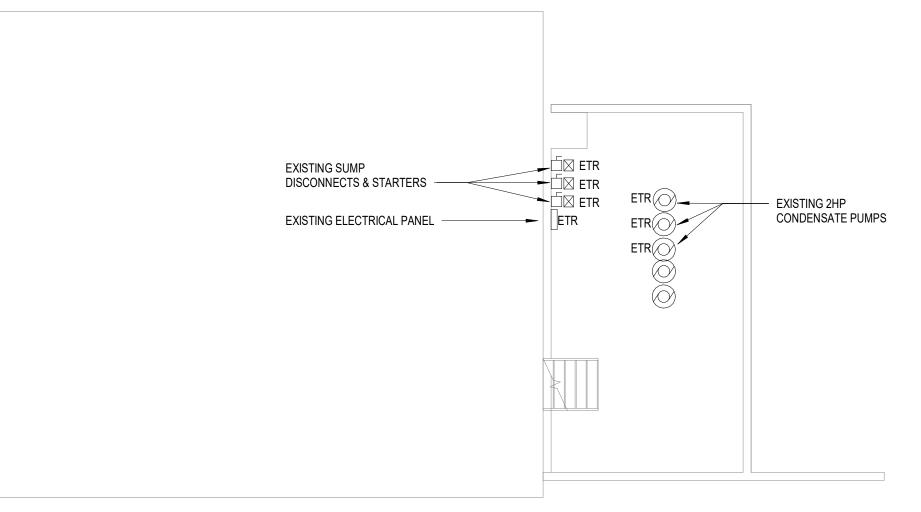
CIRCUIT AND CONNECT. INCLUDE ALL NECESSARY

MATERIALS, LABOR & PROGRAMING (COMPLETE).

5 ELECTRICAL DOILER ROOM PHASE 1 NEW WORK

277/480V-3Ø-4W

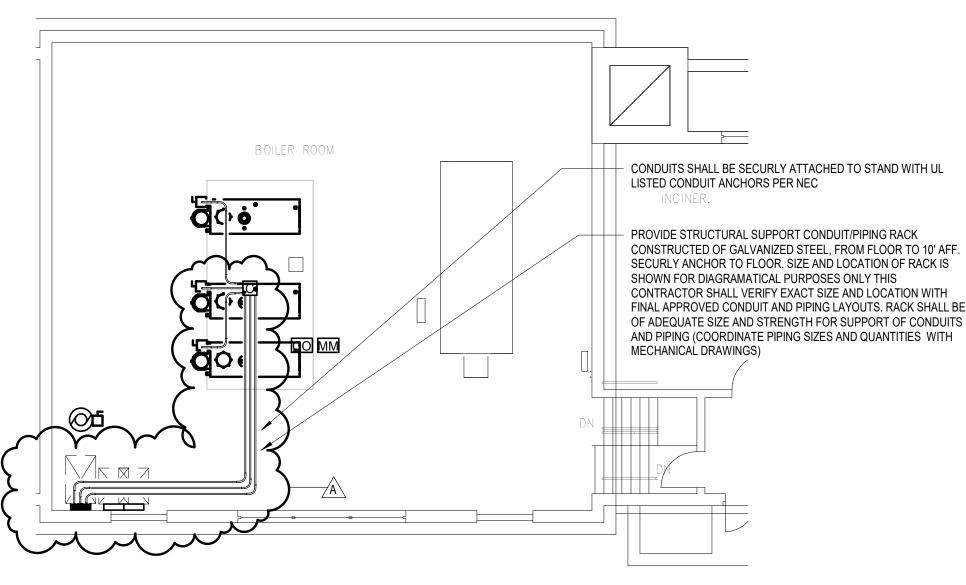
(SEE SCHEDULE)



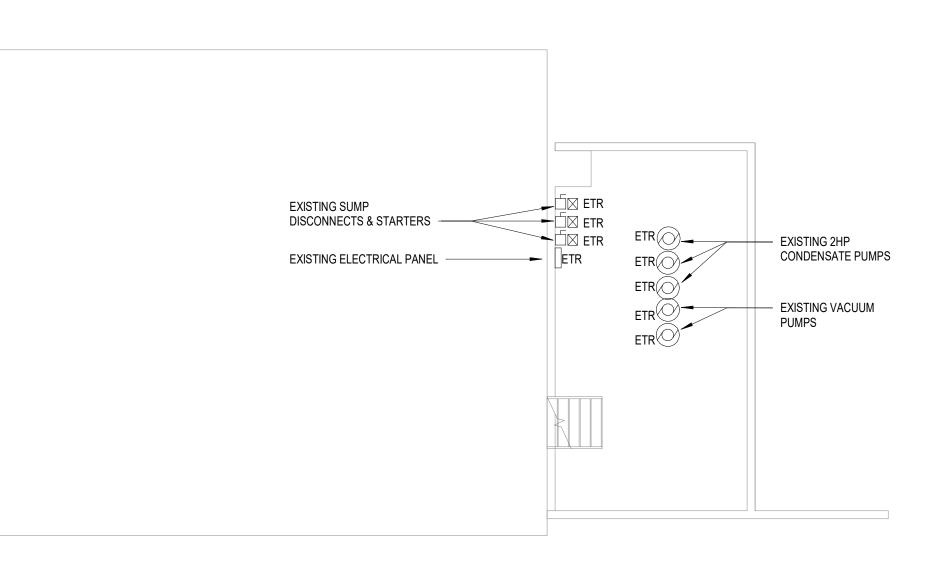
2 ELECTRICAL SUB BOILER ROOM PHASE 1 DEMO

E.2.1 1/8" = 1'-0"

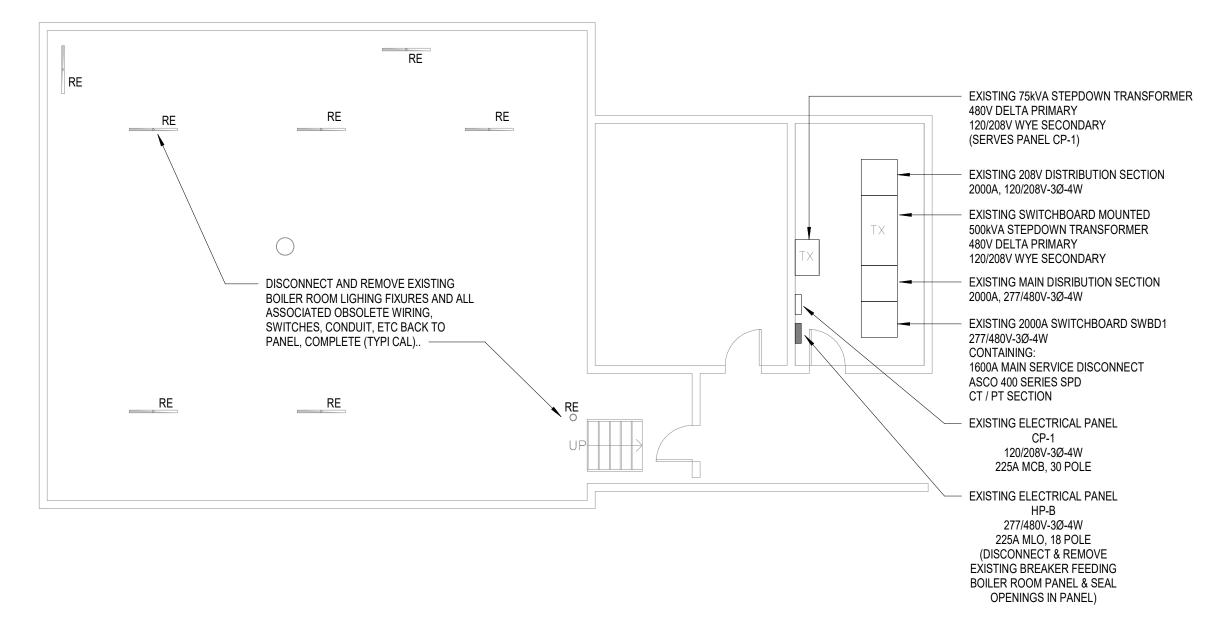
- UPON REMOVAL OF ANY ELECTRICAL EQUIPMENT OR ELECTRICAL RELATED TO EQUIPMENT BEING REMOVED BY OTHER DIVISION THIS CONTRACTOR SHALL:
- DISCONNECT ELECTRICAL POWER FROM EQUIPMENT, MAKE SAFE FOR REMOVAL. REMOVE ALL ASSOCIATED OBSOLETE ELECTRICAL EQUIPMENT, SWITCHES, WIRING, ETC.
- REMOVE ALL ASSOCIATED OBSOLETE WIRING (COMPLETE BACK TO SOURCE). EXTEND NEW MATCHING WIRING AND CONDUIT AS REQUIRED TO MAINTAIN CONTINUITY OF ANY
- EQUIPMENT NOT LISTED FOR REMOVAL AND DISTRUBED BY THE REMOVAL OF EXISTING, CONNECT TO
- CUT BACK ALL ASSOCIATED OBSOLETE CONDUITS TO STRUCTURE, CEILING OR BELOW FLOOR, CAP. WHERE CONDUITS ARE CUT BACK TO BELOW FLOOR THIS CONTRACTOR SHALL PATCH FLOOR SURFACE
- EXISTING/NEW CIRCUIT TO MAINTAIN CONTINUITY. TO MATCH EXISTING SURROUNDINGS (COORDINATE WITH FIELD CONDITIONS).



7 ELECTRICAL BOILER ROOM PHASE 1 NEW WORK (CONDUIT & SUPORT)



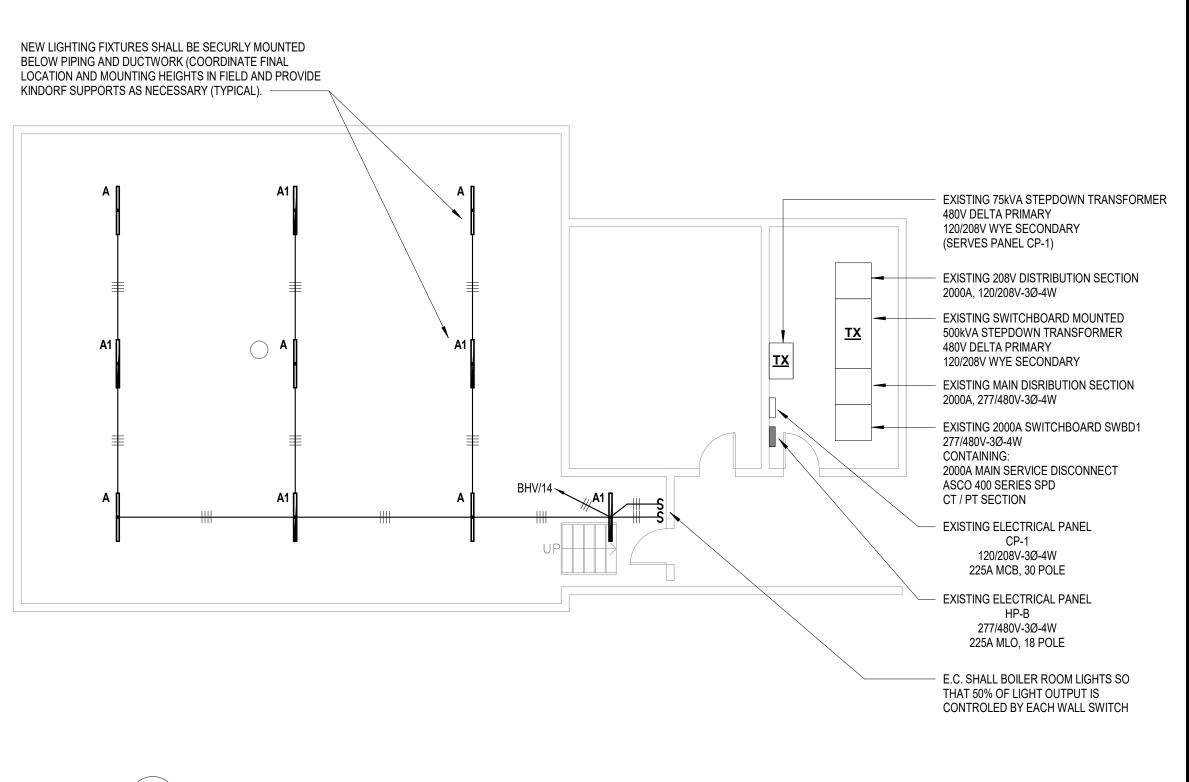
4 ELECTRICAL SUB BOILER ROOM PHASE 1 NEW WORK



3 ELECTRICAL BOILER ROOM CEILING AND ELECTRICAL ROOM PHASE 1 DEMO E.2.1 1/8" = 1'-0"

UPON REMOVAL OF ANY ELECTRICAL EQUIPMENT OR ELECTRICAL RELATED TO EQUIPMENT BEING REMOVED BY OTHER DIVISION THIS CONTRACTOR SHALL:

- DISCONNECT ELECTRICAL POWER FROM EQUIPMENT, MAKE SAFE FOR REMOVAL. REMOVE ALL ASSOCIATED OBSOLETE ELECTRICAL EQUIPMENT, SWITCHES, WIRING, ETC.
- REMOVE ALL ASSOCIATED OBSOLETE WIRING (COMPLETE BACK TO SOURCE). EXTEND NEW MATCHING WIRING AND CONDUIT AS REQUIRED TO MAINTAIN CONTINUITY OF ANY
- EQUIPMENT NOT LISTED FOR REMOVAL AND DISTRUBED BY THE REMOVAL OF EXISTING, CONNECT TO EXISTING/NEW CIRCUIT TO MAINTAIN CONTINUITY.
- CUT BACK ALL ASSOCIATED OBSOLETE CONDUITS TO STRUCTURE, CEILING OR BELOW FLOOR, CAP. WHERE CONDUITS ARE CUT BACK TO BELOW FLOOR THIS CONTRACTOR SHALL PATCH FLOOR SURFACE TO MATCH EXISTING SURROUNDINGS (COORDINATE WITH FIELD CONDITIONS).



6 ELECTRICAL BOILER ROOM CEILING AND ELECTRIC ROOM PHASE 1 NEW WORK E.2.1 1/8" = 1'-0"

MARCH 23, 2020 🛕

ELECTRICAL BOILER ROOM DEMOLITION AND **NEW WORK** PHASE 1

ATE 11/01/2018

							BOILER SCH	HEDULE						
TAG	MANUFACTURER	MODEL	INPUT CFH	OUTPUT MBH	THERMAL EFFICIENCY	EWT °F	LWT °F	MIN. MAX. WATER FLOW GPM	PRESSURE DROP	MIN. MAX. GAS PRESSURE	VOLT/PH/HZ	FLA	BURNER MOTOR HP	REMARKS
B-1, B-2 & B-3	AERCO	BMK 5000	5000	4350-4800	94%	165	195	75 / 700	4 PSI @ 500 GPM	4" - 10"WC	480/3/60	19	5	REFER TO NOTES

1. PROVIDE CONDENSATE NEUTRALIZER FOR EACH BOILER, PIPE TO FLOOR DRAIN. 2. MANUFACTURER SHALL EQUIP THE BOILERS WITH MANUAL RESET HIGH-LIMIT AQUASTAT, SAFETY CONTROLS THAT COMPLY WITH ASME FOR LOW PRESSURE

BOILER, LOW WATER CUTOFF AND A MANUAL-RESET HIGH-LIMIT TEMPERATURE DEVICE COMPLY WITH ASME STANDARDS. 3. HI/LOW GAS PRESSURE SWITCH.

4. PROVIDE TEMPERATURE OUTDOOR AIR SENSOR, SENSOR SHOULD BE POSITIONED ON THE NORTH WALL OF THE BUILDING, AND NOT IN DIRECT SUNLIGHT. 6. MANUFACTURER TO PROVIDE ON BOARD BOILER SEQUENCING TECHNOLOGY (BST).

6. PROVIDE HEADER SENSOR, SENSOR SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

'. BOILER MANUFACTURER TO PROVIDE AND CONTROL, FIELD INSTALLED, MOTORIZED ISOLATION VALVES ON EACH BOILER

8. BOILER MANUFACTURER SHALL PROVIDE PRESSURE RELIEF VALVE. 9. BOILER MANUFACTURER SHALL PROVIDE GAS PRESSURE REGULATOR

10. COMBUSTION AIR SHALL BE INSULATED GALVANIZED DIRECT DUCTED. 11. VENT PIPING MATERIAL SHALL BE POLYPROPYLENE.

					FREEZE PR	OTECTION C	IRCULATING PU	MP						
TAG	SERVES	MANUFACTURER	SERIES	MODEL	TYPE	GPM	HEAD (FT)	EFF %	IMPELLER DIA (IN)	MOTOR (HP)	BHP	RPM	VOLT/PH/HZ	REMARKS
P-HWC-1	HWC-1	BELL & GOSSETT	e-60	1.25x1.25x5.25	INLINE	18	20	42.3	5	0.5	0.175	1800	115/1/60	REFER TO NOTES
P-HWC-2	HWC-2	BELL & GOSSETT	e-60	1.25x1.25x5.25	INLINE	20	12	43.5	4	0.25	0.117	1800	115/1/60	REFER TO NOTES
P-HWC-3	HWC-3	BELL & GOSSETT	e-60	1.25x1.25x5.25	INLINE	29	15	56	4.375	0.33	0.186	1800	115/1/60	REFER TO NOTES
P-HWC-5	HWC-5	BELL & GOSSETT	e-60	1.25x1.25x5.25	INLINE	21	15	48.8	4	0.25	0.157	1800	115/1/60	REFER TO NOTES
P-HWC-6	HWC-6	BELL & GOSSETT	e-60	1.25x1.25x5.25	INLINE	28	20	57.4	5	0.5	0.235	1800	115/1/60	REFER TO NOTES
P-HWC-7	HWC-7	BELL & GOSSETT	e-60	1.5x1.5x6.25	INLINE	57	25	62.6	5.375	0.75	0.551	1800	115/1/60	REFER TO NOTES
P-HWC-8	HWC-8	BELL & GOSSETT	e-60	1.5x1.5x6.25	INLINE	57	25	62.6	5.375	0.75	0.551	1800	115/1/60	REFER TO NOTES

1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. 2. PROVIDE WITH MOTOR RATED SWITCH AND STARTING RELAY.

		VARIABL	E FREQUENCY DR	IVE SCHEDULE		
TAG	SERVES	MANUFACTURER	MODEL	MOTOR HP	VOLT/PH/HZ	REMARKS
VFD-P-5	P-5	ABB	ACH 580	50	480/3/60	REFER TO NOTES
VFD-P-6	P-6	ABB	ACH 580	50	480/3/60	REFER TO NOTES
VFD-P-7	P-7	ABB	ACH 580	7.5	480/3/60	REFER TO NOTES
VFD-P-8	P-8	ABB	ACH 580	7.5	480/3/60	REFER TO NOTES

1. EACH VFD SHALL HAVE MANUAL BYPASS.

					FINNED TUBE RA	DIATORS SCH	EDULE				
TYPE	MANUFACTURER	MODEL	TIER #	CENTER TO CENTER (IN)	FIN THICKNESS (IN)	TUBE SIZE (IN)	FIN NUMBER PER FOOT	FIN SIZE SQ. (IN)	BTUH/FT	AVG. WATER TEMP. °F	REMARKS
A, A1, A2 & A3	STERLING	C3/4-45	2	6	0.02	3/4"	50	4 1/4"	2256	180	REFER TO NOTES
B, B1 & B2	STERLING	C3/4-45	3	6	0.02	3/4"	50	4 1/4"	2552	180	REFER TO NOTES
С	STERLING	C3/4-45	1	_	0.02	3/4"	50	4 1/4"	1704	180	REFER TO NOTES

1. FINNED TUBES SHALL BE MANUFACTURED WITH SEAMLESS COPPER TUBING MECHANICALLY EXPANDED INTO THE DIAMETER OF THE EQUALLY SPACED ALUMINUM FINS.

PRIOR TO ORDER THIS CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO MATCH EXISTING ELEMENT DIMENSION. 3. EXISTING ENCLOSURE AND BACK PLATE TO REMAIN. ENCLOSURE COVER SHALL BE RE-INSTALLED IN ACCORDANCE WITH

MANUFACTURER'S RECOMMENDATIONS. 4. PROVIDE NEW BRACKETS AND CRADLES TO SUPPORT FINNED TUBES. SPACING AND NUMBER OF CRADLES SHALL BE IN

ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

5. PROVIDE NEW JOINER STRIPS. 6. FOR LENGTH AND OTHER HEATING INFORMATION PLEASE REFER TO THE DRAWINGS. 7. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

		CONVECTOR ELE	MENTS SCHE	DULE		
TYPE	MANUFACTURER	TYPE	CONVECTOR DEPTH	TUBES PER ELEMENT	AVG. WATER TEMP. °F	REMARKS
E & E1	STERLING	SURFACE MOUNT	4"/6"/8"	2/3/4	180	REFER TO NOTES
D	STERLING	SURFACE MOUNT	4"/6"/8"	2/3/4	180	REFER TO NOTES
D1	STERLING	RECESSED OR SEMI-RECESSED	4"/6"/8"	2/3/4	180	REFER TO NOTES

1. PRIOR TO ORDER THIS CONTRACTOR SHALL FIELD VERIFY TO MATCH EXISTING ELEMENT DIMENSION. 2. EXISTING ENCLOSURE TO REMAIN. ENCLOSURE COVER SHALL BE RE-INSTALLED IN PROPER WAY AND IN ACCORDANCE WITH

MANUFACTURER'S RECOMMENDATIONS. 4. PROVIDE NEW BRACKETS (END POCKETS) TO SUPPORT THE HEATING ELEMENT. SUPPORT SHALL BE IN ACCORDANCE WITH

MANUFACTURER'S RECOMMENDATIONS. 5. PROVIDE WITH TWO VENT PLUGS FOR EACH ELEMENT.

6. FOR MODEL AND OTHER HEATING INFORMATION PLEASE REFER TO DRAWINGS. 3. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS.

			RA	DIANT CEILING	PANEL SCHED	JLE		
TAG	MANUFACTURER	MODEL	PASSES	WIDTH	BTU/H PER LINEAR FOOT	AVG. WATER TEMP. °F	MIN GPM	REMARKS
RCP-01	STERLING	LRP	4	18"	363	180	2	REFER TO NOTES

1. CONTRACTOR SHALL FIELD VERIFY TO COORDINATE WITH EXISTING CONDITIONS.

2. PROVIDE ALL INTERCONNECTING HARDWARE AND TRIM FOR PANEL LENGTHS AND LAYOUT SHOWN. 3. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS.

4. PROVIDE 0.115 INCH THICK FLUTED ALUMINUM FACE PANEL, TONGUE AND GROOVED PANEL EDGES WITH STEEL CHANNEL CROSS BRACES ATTACHED BY MECHANICAL FASTENER AND 1 INCH THICK FIBERGLASS PAD FACTORY APPLIED. FACTORY

APPLIED POWDER COAT FINISH COLOR IS SELECTED BY THE OWNER. CONTRACTOR IS RESPONSIBLE FOR PROTECTING PANEL FINISH FROM SCRATCHES & BLEMISHES DURING CONSTRUCTION.

5. PROVIDE 1" THICK, PLENUM RATED, THERMAL ACOUSTICAL PAD OF 0.75 Lb DENSITY U-VALUE=0.16/INCH.

							UNIT HEATER	SCHEDULE							
TAG	SERVE	MANUFACTURER	MODEL	ELEC	TRICAL	SUPPL	Y FAN			Н	OT WATER CO	L			
IAG	SERVE	MANUFACIURER	MODEL	VOLT/HZ/PH	MCA	CFM	MOTOR HP	EAT °F	LAT °F	MBH	EWT °F	LWT °F	GPM	WPD FT-H ₂ O	REMARKS
UH-1	GYMNASIUM A & B	STERLING	HS-204	115/60/1	4.5	2900	1/3	60	107	148	190	160	14.9	0.79	REFER TO NOTES
UH-2	BOILER ROOM	STERLING	HS-108	115/60/1	2.2	1500	1 12	60	103	54.4	190	160	4.7	0.14	REFER TO NOTES

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY TO COORDINATE WITH EXISTING CONDITIONS. 2. CASING SHALL BE 20-GAUGE DIE-FORMED STEEL.

3. MOTOR SHALL BE TOTALLY ENCLOSED FAN COOLED, WITH THERMAL OVERLOAD PROTECTION AND PERMANENTLY LUBRICATED SLEEVE BEARINGS WITH SOLID STATE SPEED CONTROLLER.

4. MOTOR SHALL BE EXPLOSION PROOF. 5. PROVIDE OSHA FAN GUARD.

6. PROVIDE WITH HORIZONTAL INDIVIDUALLY ADJUSTABLE LOUVERS.

7. PROVIDE WALL BRACKETS. INSTALL UNIT HEATER IN ACCORDANCE OF MANUFACTURER RECOMMENDATIONS.

8. PROVIDE WITH MOTOR RATED SWITCH AND STARTING RELAY.

							UNIT V	ENTILATOR	SCHEDULE							
TAC	TAG MANUFACTURER M		ELEC	TRICAL		SUPPLY FAM	1									
IAG		MODEL	VOLTAGE	MCA	CFM	MOTOR HP	MOTOR TYPE	EAT °F	LAT °F	ROWS	MBH	EWT °F	LWT 'F	GPM	WPD FT-H ₂ O	REMARKS
UV-01	DAIKIN	UAVV9V13	115/60/1	6.3	1000	0.333	VARIABLE ECM	49.9	132.6	3	90	190	150	4.5	1.6	REFER TO NOTES
UV-02	DAIKIN	UAVV9V10	115/60/1	6.3	800	0.333	VARIABLE ECM	49.9	136.5	3	75	190	152.4	4	2.85	REFER TO NOTES
UV-03	DAIKIN	UAVV9V07	115/60/1	6.3	600	0.333	VARIABLE ECM	56.6	140	3	54.7	190	158.7	3.5	1.97	REFER TO NOTES

1. PRIOR TO ORDER THIS CONTRACTOR SHALL FIELD VERIFY TO COORDINATE WITH EXISTING CONDITIONS. 2. TOP BAR GRILLE DISCHARGE AIR, AND BOTTOM FRONT RETURN AIR

3. COLOR BY THE OWNER. 4. FAN AND MOTOR ASSEMBLY SHALL BE OF LOW SPEED DESIGN TO ASSURE MAXIMUM QUIETNESS AND EFFICIENCY.

5. MOTOR SHALL BE ECM VARIABLE SPEED. 6. OUTSIDE AIR LOUVER TO REMAIN, PROVIDE INSULATED DUCTWORK ADAPTER TO CONNECT TO EXISTING OUTSIDE AIR LOUVER. SEAL TIGHT AIR AND WATER.

8. MANUFACTURER SHALL PROVIDE WITH FREEZESTAT PROTECTION.

9. PROVIDE WITH END PANELS.

10. MANUFACTURER TO PROVIDE VALVE KIT. 11. PROVIDE WITH MOTOR RATED SWITCH AND STARTING RELAY.

									CABINET U	NIT HEATER SC	HEDULE								
TAG	MANUFACTURER	MODEL	SIZE		ELECTRICAL			SUPPLY FAN		FILTER				HOT WA	TER COIL				
TAG	MANUFACTURER	MODEL	SIZE	VOLTAGE	MCA	MROPD	CFM	MOTOR HP	MOTOR TYPE	TYPE	EAT °F	LAT °F	ROWS	MBH	EWT °F	LWT °F	GPM	WPD FT-H ₂ O	REMARKS
CUH-1	DAIKIN	FHVC106	06	115/60/1	5.3	15	500	1/4	ECM	1" MERV 8	70	157	3	47.4	190	159.8	3.1	2.54	REFER TO NOTES
CUH-2	STERLING	RW-1120	04	115/60/1	2.5	15	230	<u>1</u> 15	ECM	<u>1</u> " PERM.	50	150	2	46.3	190	160	3	1.3	REFER TO NOTES
CUH-3	STERLING	RW-1120	04	115/60/1	2.5	15	430	<u>1</u> 15	ECM	1" PERM.	50	150	2	46.3	190	160	3	1.3	REFER TO NOTES

a. 18 GAUGE CABINET ENCLOSURE, STANDARD STYLE.

2. CUH-2 AND CUH-3: a. FRONT RETURN AND DISCHARGE AIR. b. 18 GAUGE CABINET ENCLOSURE

3-SPEED ECM MOTOR.

b. $\frac{1}{4}$ " inch closed cell cabinet insulation c. PROVIDE WITH LEVELING LEGS.

c. ADJUSTABLE REAR MOUNTING BRACKETS. PROVIDE WALL SEAL ASSEMBLY.

d. BOTTOM FRONT RETURN AIR GRILLE e. TOP DOUBLE DEFLECTION DISCHARGE AIR DIFFUSER

4. COLOR BY THE OWNER PROVIDE MOTOR RATED SWITCH AND STARTING RELAY f. EXTENDED END POCKETS. 6. PROVIDE WITH FILTER.

							HOT WATE	R COIL SCHEDUL	.E								
TAG	SERVE	FPI	ROWS	FIN HEIGHT (IN)	FIN LENGTH (IN)	FACE AREA (FT ²)	CFM	FACE VELOCITY (FT/MIN)	EAT °F	LAT °F	MBH	ADP (IN-H ₂ O)	EWT 'F	LWT °F	GPM	WDP (FT-H ₂ O)	REMARKS
HWC-1	LIBRARY	13	1	24	67	11.2	6000	537.3	70	111.2	270	0.22	190	159.9	17.9	9.1	REFER TO NOTES
HWC-2	BAND ROOM	10	2	27	34.5	6.5	2850	440.6	2.9	100.7	305	0.25	190	159.8	20.2	2	REFER TO NOTES
HWC-3	CAFE C-276	9	2	27	56	10.5	4000	381	2.9	102.5	436	0.18	190	159.2	28.3	4.5	REFER TO NOTES
HWC-5	KITCHEN	11	2	27	35	6.6	3000	457	2.9	104.1	332	0.39	190	158.7	21.2	2.2	REFER TO NOTES
HWC-6	CAFE C-250	9	2	27	56	10.5	4000	381	2.9	102.5	436	0.18	190	159.2	28.3	4.5	REFER TO NOTES
HWC-7	GYMNASIUM-B	10	2	33	70	16	8100	504.9	2.9	101	869	0.32	190	159.7	57.3	14.9	REFER TO NOTES
HWC-8	GYMNASIUM-A	10	2	33	70	16	8100	504.9	2.9	101.0	869	0.32	190	159.7	57.3	14.9	REFER TO NOTES

NOTES:

1. PRIOR TO ORDER COIL, CONTRACTOR SHALL FIELD VERIFY TO MATCH EXISTING OVERALL COIL DIMENSIONS.

2. EXISTING ENCLOSURE TO REMAIN (EXCEPT FOR 'HWC-1') 3. PROVIDE ALL NECESSARY ACCESSORIES TO SECURE THE COIL INSIDE THE EXISTING ENCLOSURE. 4. SEAL AIR BETWEEN HOT WATER COIL AND ENCLOSURE.

					HC	OT WATER PUM	IP SCHEDULE							
TAG	MANUFACTURER	SERIES	MODEL	TYPE	GPM	HEAD (FT)	EFF %	IMPELLER DIA (IN)	MOTOR (HP)	BHP	RPM	VOLT/PH/HZ	WEIGHT (LBS)	REMARKS
P-5	BELL & GOSSETT	e-1510	6G-SS-326T-L	BASE MOUNTED END SUCTION	1090	100	78.8	10.75	50	33.6	1694	480/3/60	1276	REFER TO NOTES
P-6	BELL & GOSSETT	e-1510	6G-SS-326T-L	BASE MOUNTED END SUCTION	1090	100	78.8	10.75	50	33.6	1694	480/3/60	1276	REFER TO NOTES
P-7	BELL & GOSSETT	e-1510	6BD-SS-254T-L	BASE MOUNTED END SUCTION	1000	20	79.8	8.625	7.5	6.06	1090	480/3/60	725	REFER TO NOTES
P-8	BELL & GOSSETT	e-1510	6BD-SS-254T-L	BASE MOUNTED END SUCTION	1000	20	79.8	8.625	7.5	6.06	1090	480/3/60	725	REFER TO NOTES

1. PROVIDE WITH ANSI/OSHA COUPLING GUARD

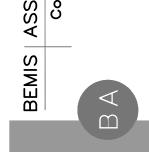
2. PROVIDE WITH FABRICATED HEAVY DUTY BASE PLATE. 3. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

4. PROVIDE WITH PREMIUM EFFICIENCY MOTOR.

MARCH 23, 2020 🛕

CON Wes. HOT

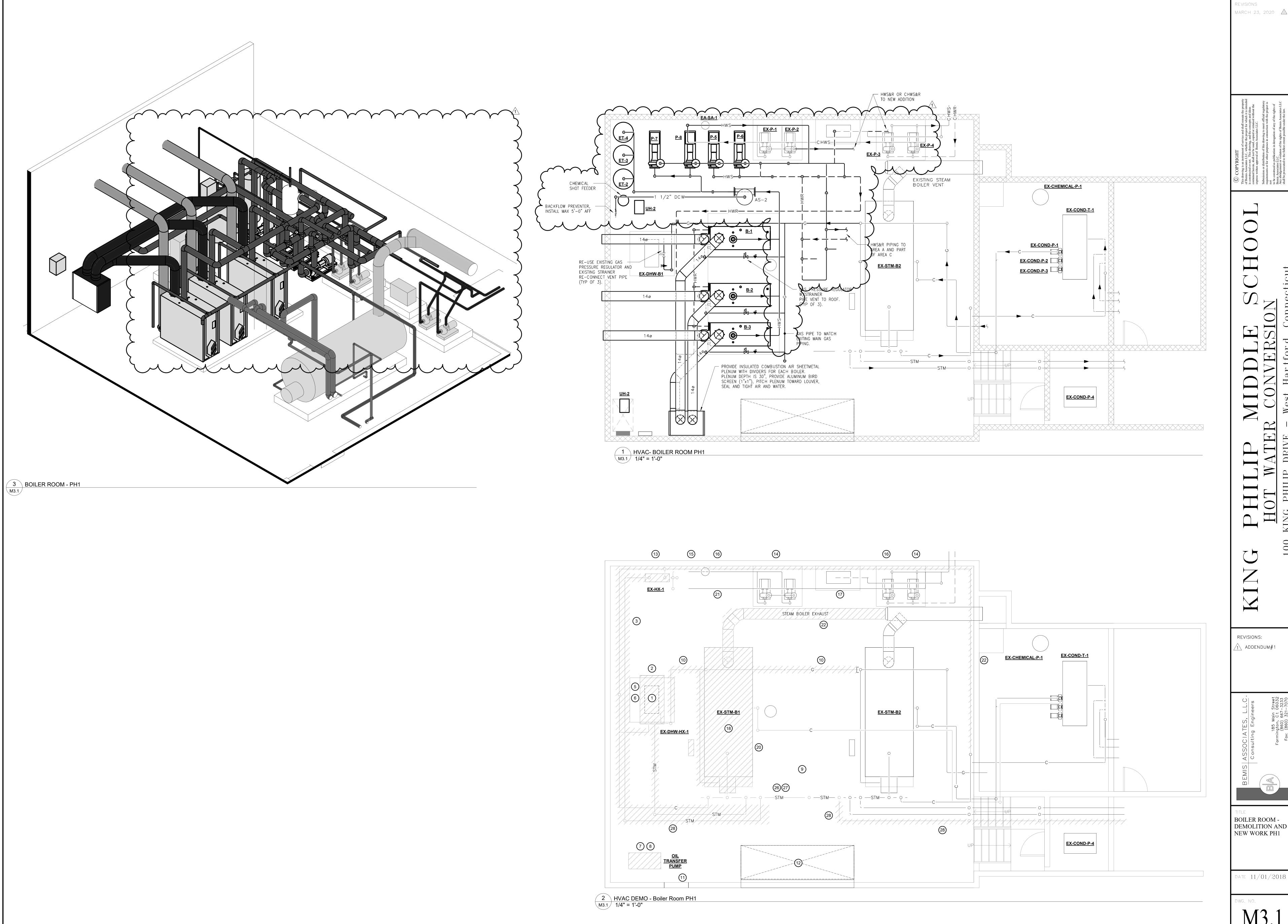
REVISIONS: 1 ADDENDUM#1



TITLE MECHANICAL SCHEDULES

DATE 02/07/2020

DWG. NO.



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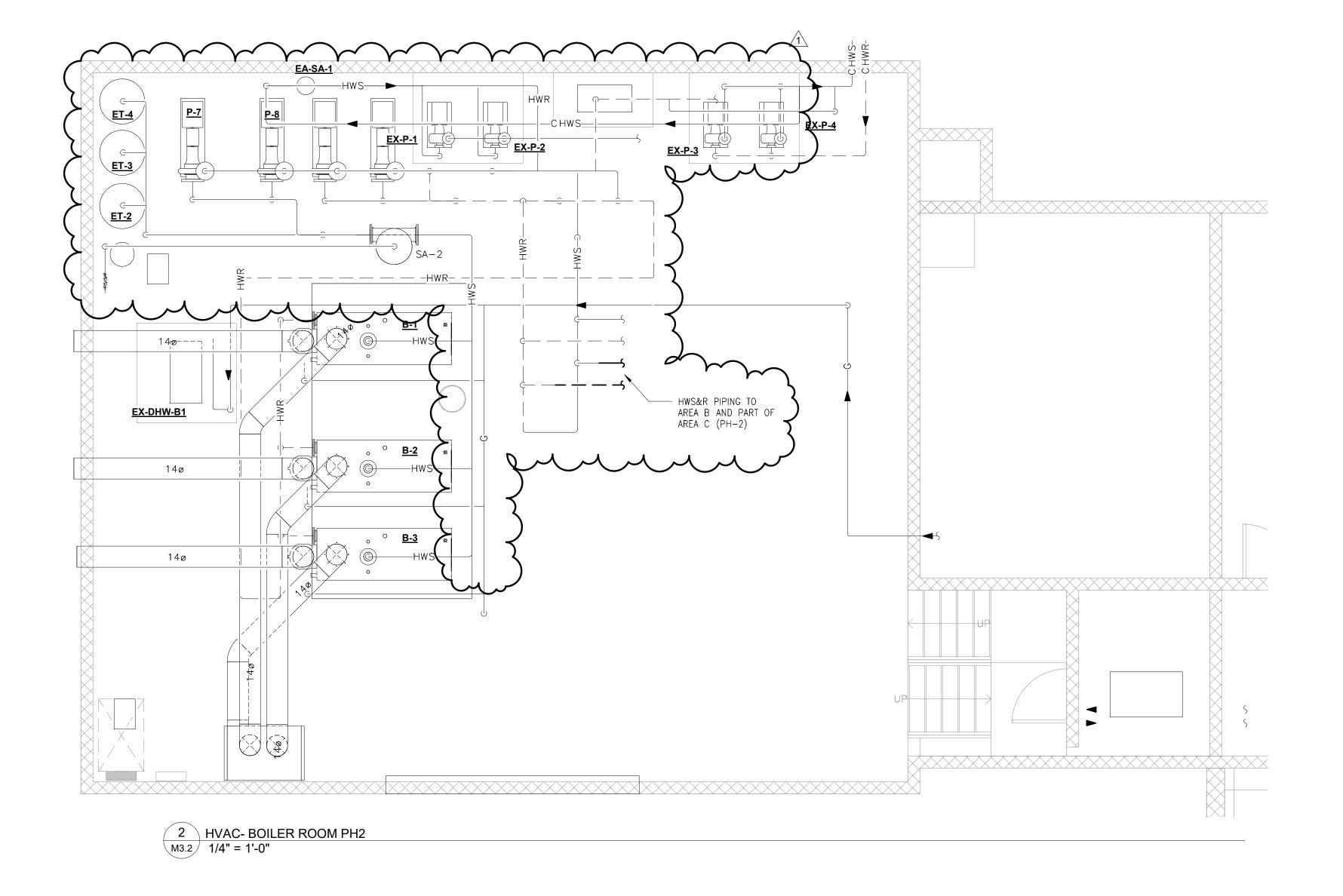
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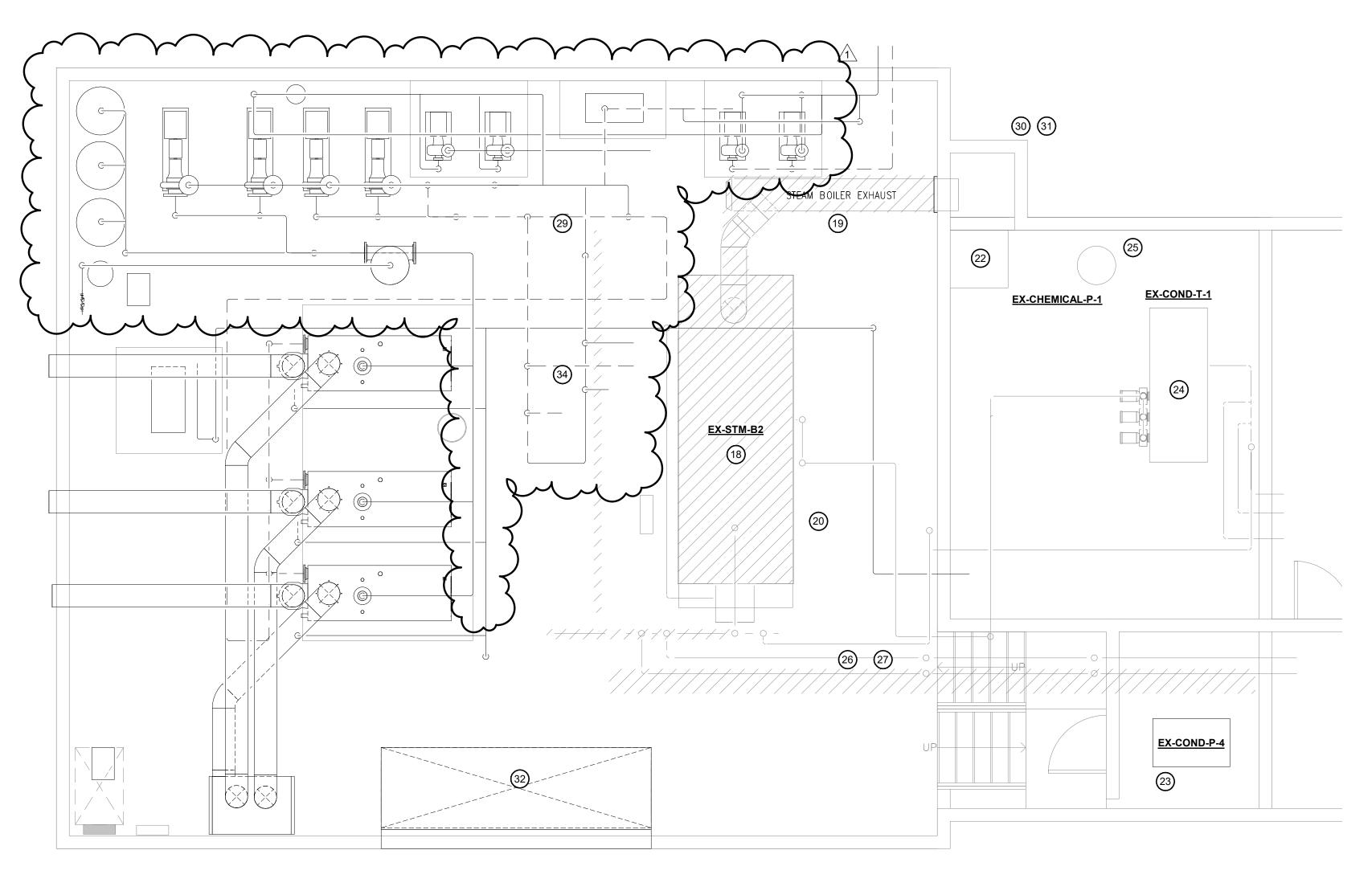


BOILER ROOM -DEMOLITION AND NEW WORK PH1

DATE 11/01/2018

M3.1

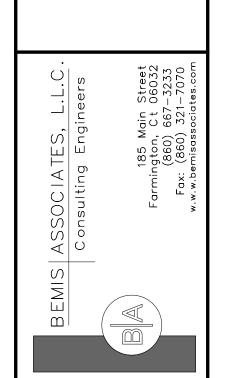




1 HVAC DEMO - Boiler Room PH2 1/4" = 1'-0"

MARCH 23, 2020 🛕

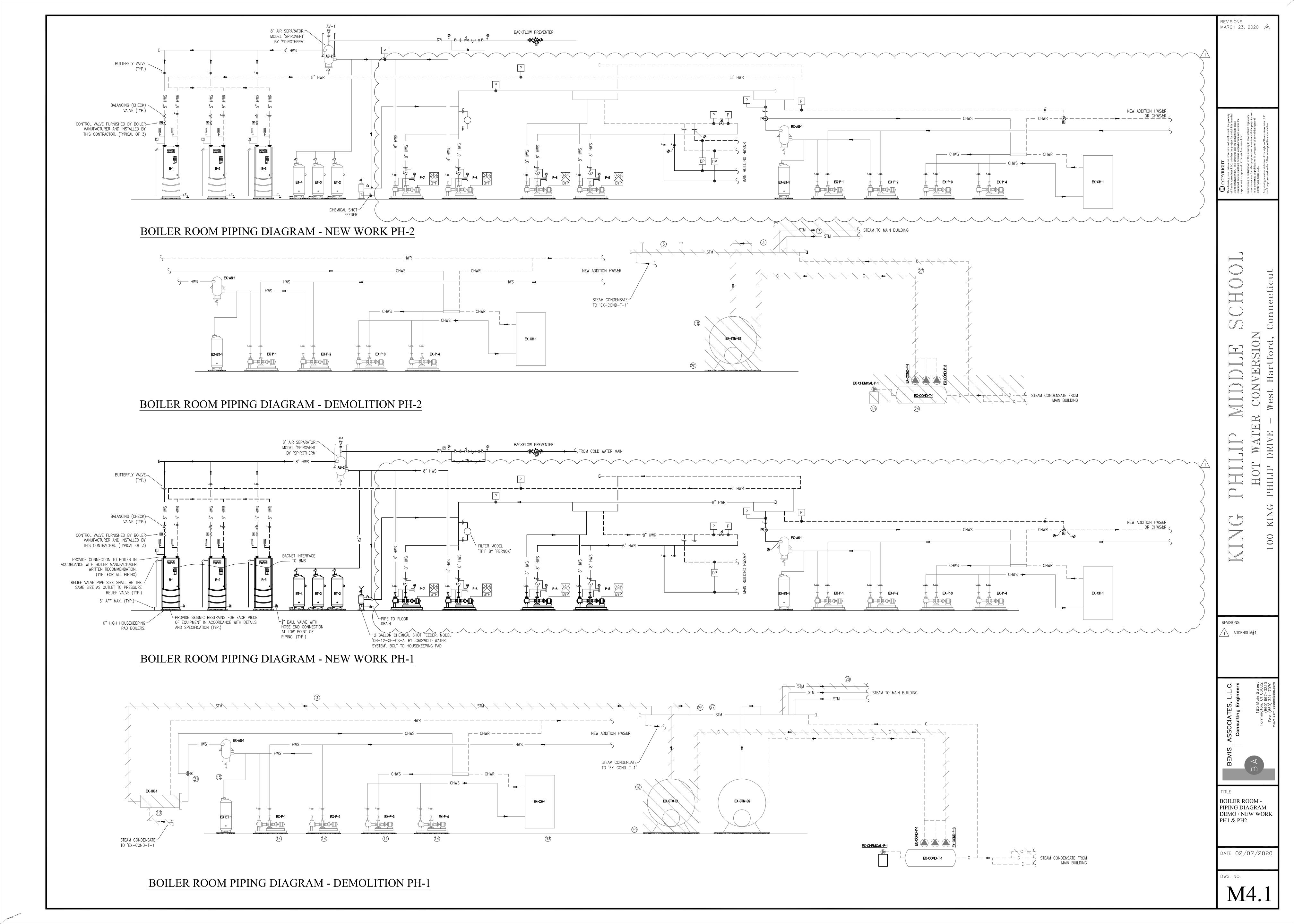
REVISIONS: ADDENDUM#1



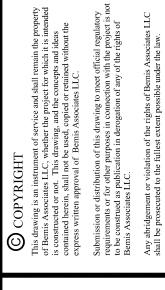
BOILER ROOM -DEMOLITION AND NEW WORK PH2

DATE 11/01/2018

M3.2





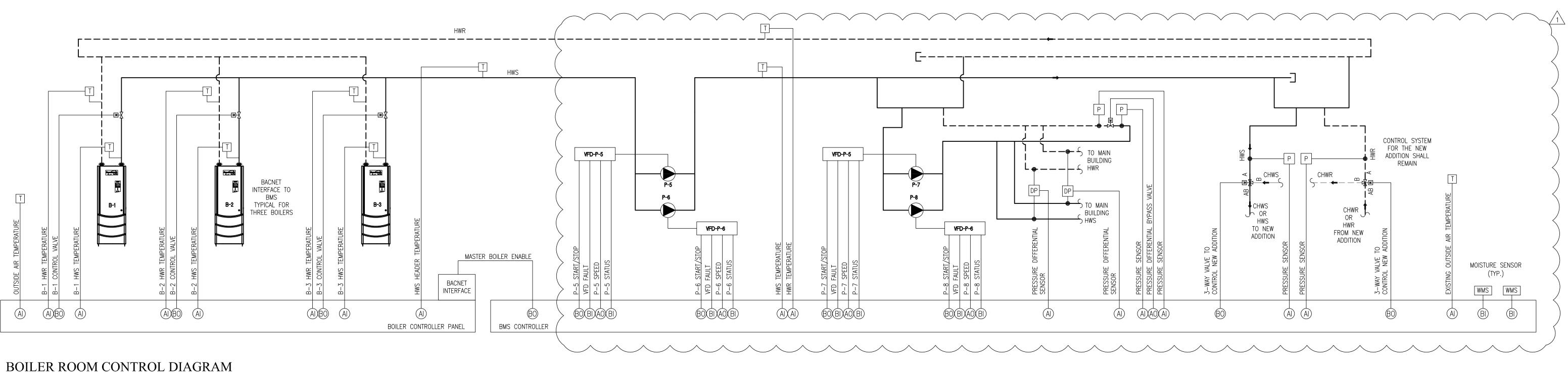


1 ADDENDUM#1

MECHANICAL CONTROL DIAGRAM

DATE 02/07/2020

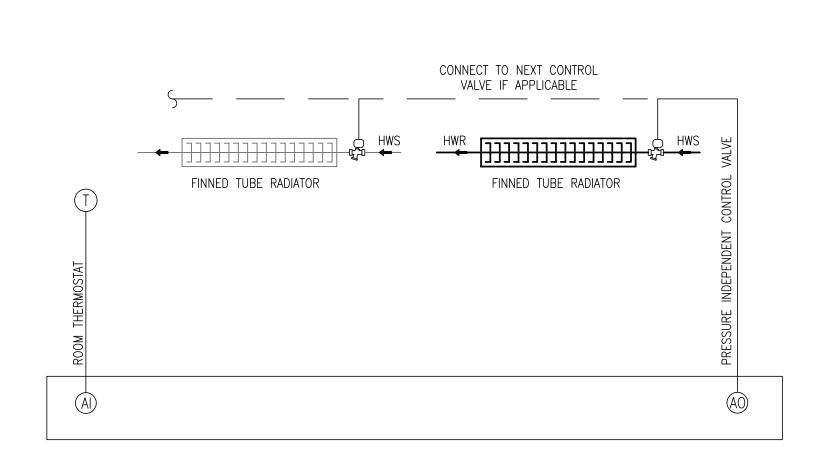
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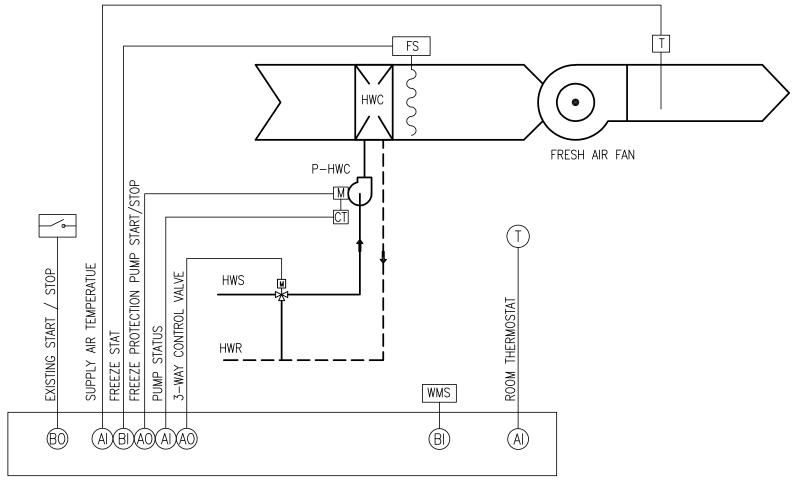
UNIT HEATER AND CABINET UNIT HEATER CONTROL DIAGRAM

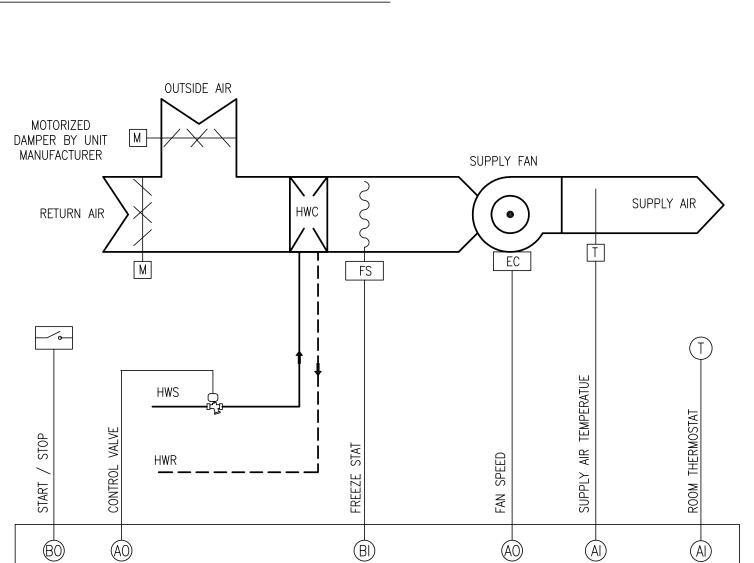
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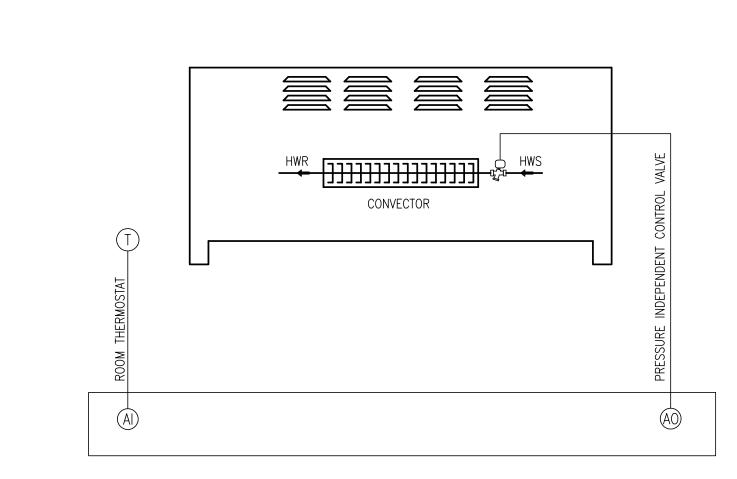
BOILER ROOM CONTROL DIAGRAM



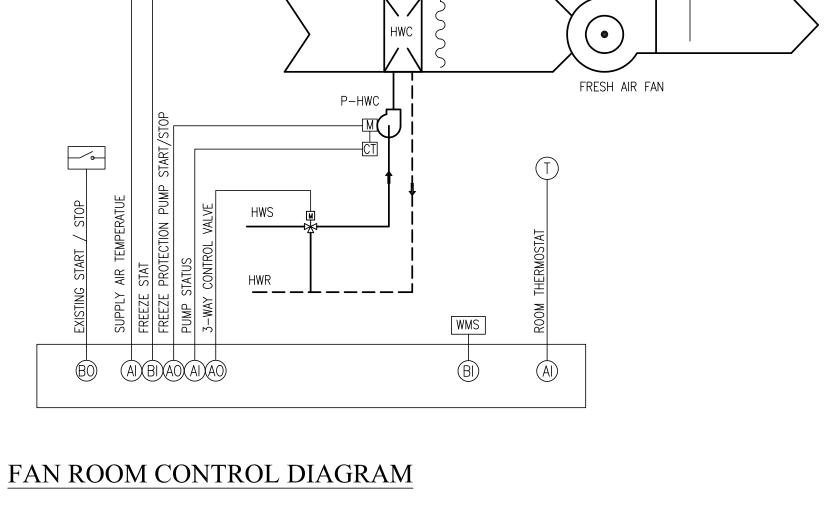
FINNED TUBE CONTROL DIAGRAM







CONVECTOR TYPE 'D2' CONTROL DIAGRAM



UNIT VENTILATOR CONTROL DIAGRAM