

GENERAL NOTES

THE DESIGN OF THIS PROJECT CONFORMS TO ALL APPLICABLE PROVISIONS OF NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

THE WORK OF THIS PROJECT WILL INVOLVE KNOWN OR SUSPECTED ASBESTOS-CONTAINING BUILDING MATERIALS AND WILL BE DONE IN ACCORDANCE WITH INDUSTRIAL CODE RULE #56.

SUFFERN CSD **RP CONNOR - BOILER CONVERSION**

HILLBURN **RP CONNOR**

SED #50-04-01-06-0-005-021

OWNER



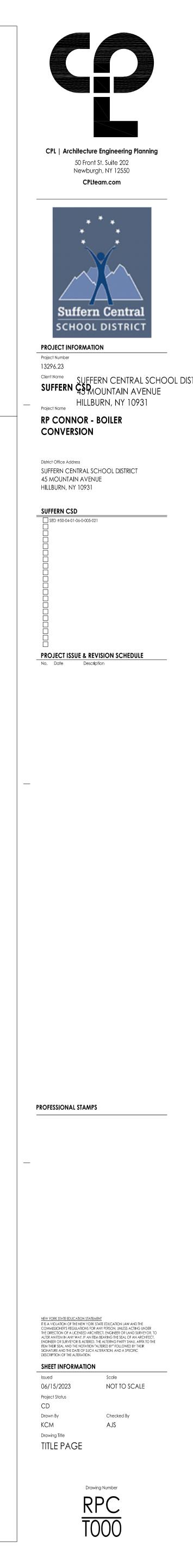
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PRE-ABATEMENT WORK NOTES:

- 1. THESE DRAWINGS HAVE BEEN PREPARED BY UTILIZING THE OWNERS ORIGINAL CONSTRUCTION DOCUMENTS IN ORDER TO ILLUSTRATE THE EXISTING CONDITIONS OF THE SITE AND STRUCTURES THEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL VERIFICATION OF ALL EXISTING CONDITIONS IN THE FIELD.
- 2. THE CONTRACTOR SHALL DETERMINE EXACT FINAL LOCATIONS OF PERSONNEL AND WASTE DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASBESTOS DEBRIS, THESE LOCATIONS SHALL BE REVIEWED AND PROPERLY APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF WORK. THIS CONTRACTOR SHALL ESTABLISH, LABEL AND MAINTAIN PROPER EXITS AND WAYS OF DEPARTURE WITHIN EACH WORK AREA FOR NORMAL AND EMERGENCY USE BY WORKERS DURING ALL ABATEMENT.
- 3. THE CONTRACTOR, PRIOR TO BIDDING, SHALL BE RESPONSIBLE TO BECOME COMPLETELY FAMILIAR WITH ALL ASPECTS OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO, ALL DEMOLITION AND CONSTRUCTION WORK AS SHOWN IN THE COMPLETE SET OF DRAWINGS AND IN THE PROJECT MANUAL/SPECIFICATIONS, IN ORDER THAT THE FULL SCOPE OF WORK WHICH MAY ENCOUNTER ASBESTOS CONTAINING MATERIALS IS UNDERSTOOD AND ACCOUNTED FOR BY THE CONTRACTOR IN THIS PROJECT WHETHER OR NOT SHOWN IN THESE DOCUMENTS.

ASBESTOS REMOVAL GENERAL NOTES:

BY A NYS DEPARTMENT OF LABOR LICENSED ASBESTOS CONTRACTOR, THAT SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND QUANTITIES PRIOR TO BID.

1. ASBESTOS ABATEMENT INDICATED ON THIS DRAWING SHALL BE PERFORMED

- 2. THE CONTRACTOR SHALL PERFORM ALL CONTRACT WORK IN ACCORDANCE WITH CONTRACT SPECIFICATIONS, NEW YORK STATE DEPARTMENT OF LABOR (NYSDOL) INDUSTRIAL CODE RULE 56, OSHA, NESHAPS, AHEA, NYSDEC AND ALL OTHER APPLICABLE CODES.
- 3. THE CONTRACTOR SHALL MAINTAIN THE SITE AS NEAT AS POSSIBLE AND ORDERLY DURING THE WORK. ALL LOOSE DEBRIS WHICH MAY BLOW OFF THE SITE SHALL BE COLLECTED AND DISPOSED OF PROPERLY BY THE CONTRACTOR ON A DAILY BASIS AS PART OF THE PROJECT.
- 4. THE CONTRACTOR SHALL PROVIDE BARRIERS AROUND THE WORK AREAS IN ORDER TO ENSURE SAFE PASSAGE BY ANY PERSON. THESE BARRIERS SHALL ALSO SERVE TO KEEP ALL UNAUTHORIZED PERSONS OUT THE PROJECT AREA FOR THE DURATION OF THE WORK.
- 5. VARIANCES: CONTRACTOR SHALL PAY FOR AND OBTAIN ANY NECESSARY SITE SPECIFIC VARIANCES.
- 6. THE CONTRACTOR SHALL MAINTAIN SECURITY IN THE BUILDING AND THE WORK AREAS AT ALL TIMES.
- 7. PROJECT STAGING. STORAGE. SCHEDULING AND ACCESS SHALL BE COORDINATED WITH AND APPROVED BY THE ARCHITECT, CM AND OWNER PRIOR TO PROCEEDING WITH WORK.
- 8. SHOULD IT BE NECESSARY, CONTRACTOR SHALL COORDINATE SHUT DOWN AND LOCK OUT OF THE ELECTRICAL POWER WITH OWNER'S POWER WITH OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.
- 9. ALL TEMPORARY POWER TO THE WORK AREA SHALL BE BROUGHT IN FROM OUTSIDE THE WORK AREA THROUGH A GROUND-FAULT CIRCUIT INTERRUPTER AT THE SOURCE.
- 10.CONTRACTOR SHALL COORDINATE HOOKUP OF WATER SERVICE FOR DECONTAMINATION PURPOSED WITH OWNER'S REPRESENTATIVE. WATER FOR THE DECONTAMINATION UNITS IS AVAILABLE FROM THE OWNER.
- 11. THE OWNER OR OWNER'S REPRESENTATIVE IS RESPONSIBLE TO CONTRACT FOR NYSDOL PROJECTS MONITORING/AIR SAMPLING TECHNICIAN SERVICES AS REQUIRED.
- 12.CONTRACTOR TO PROVIDE A COPY OF SDS'S FOR ANY CHEMICAL AGENTS TO BE USED DURING THE ASBESTOS ABATEMENT TO THE PROJECT MONITOR AND THE OWNER'S REPRESENTATIVE.
- 13. CONTRACTOR SHALL REQUEST AND RECEIVE PROJECT MONITOR AND OWNER'S REPRESENTATIVE APPROVAL OF ALL WORK BEFORE ANY ABATEMENT IS UNDERTAKEN.
- 14.UNDER NO CIRCUMSTANCES SHALL CONTAMINATED WASTE WATER BE FILTERED THOUGH A SYSTEM WITHOUT AT LEAST A 5.0 MICRON PARTICLE SIZE COLLECTION CAPABILITY.
- 15. DRAWINGS ATTEMPT TO INDICATE THE GENERAL SCOPE OF EXISTING CONDITIONS AND ITEMS EFFECTED BY THE ABATEMENT WORK. CONTRACTOR SHALL EXAMINE THE WORK AREA PRIOR TO BID AND SHALL INCLUDE FIELD VARIATIONS FROM THOSE SHOWN WITH IN THE GENERAL INTENT OF THE WORK.
- 16. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ASBESTOS CONTAINING MATERIALS CONTAINED WITHIN THE PROJECT AND ASSOCIATED WITH ALL PROJECT WORK, IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES, REGULATIONS AND ALL REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
- 17. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ASBESTOS CONTAINING MATERIALS CONTAINED WITHIN THE PROJECT AND ASSOCIATED WITH ALL PROJECT WORK, IN THE MOST EFFICIENT AND COST EFFECTIVE METHOD POSSIBLE, WHICH ALSO COMPLIES WITH THE REQUIREMENTS LISTED ABOVE.

- REPAIR.

POST-ABATEMENT WORK NOTES:

1. PROVIDE ALL APPLICABLE CODE RULE 56 PROCEDURES, CLEAN UP, AND ADDITIONAL TESTING AS REQUIRED.

2. PRIOR TO ABATEMENT, ALL CONTRACTORS WILL SURVEY EXISTING CONDITIONS IN THE ABATEMENT AND GENERAL WORK AREAS. ITEMS/MATERIALS/ETC. DAMAGED, OR NON-FUNCTIONAL SHALL BE LISTED, NOTED, PHOTOGRAPHED AND REVIEWED WITH THE PROJECT INSPECTOR. ALL OTHER ITEMS/MATERIALS SHALL BE REVIEWED WITH THE PROJECT INSPECTOR. ALL OTHER ITEMS/MATERIALS SHALL BE ASSUMED TO BE IN GOOD CONDITION AND GOOD WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE ABATEMENT CONTRACTOR TO MAINTAIN ALL MATERIALS, ITEMS, EQUIPMENT, SYSTEMS, ETC. IN ITS ORIGINAL CONDITION AND RETURN TO OWNER/GC, ETC. IN SAME CONDITION AT THE END OF THIS CONTRACT.

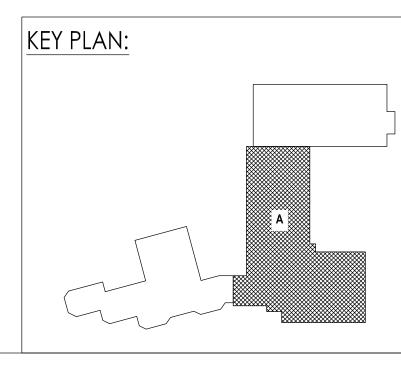
REMOVE ALL TEMPORARY ENCLOSURES, BARRIERS, ETC. REINSTALL ITEMS/WORK PREVIOUSLY REMOVED, ALL TAPE AND ADHESIVE RESIDUALS TO BE REMOVED. TEST AND

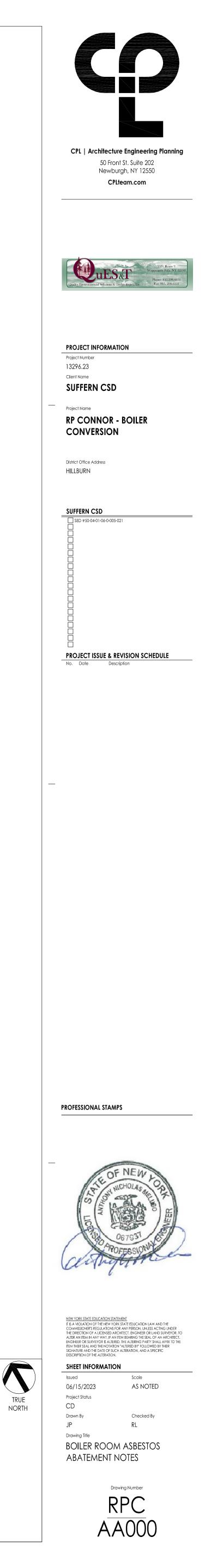
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE AGAINST DAMAGE TO THE EXISTING WORK TO REMAIN IN PLACE. ANY DAMAGE TO SUCH WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ARCHITECT AND OWNER AT NO ADDITIONAL COST TO THE CONTRACT.

5. AT COMPLETION OF THE ABATEMENT WORK, A CONDITION SURVEY SHALL BE DONE BY ALL CONTRACTORS AND PROJECT INSPECTOR (SEE NOTE #2). ANY VARIATION (I.E. DAMAGE BY THE CONTRACTOR), AND OTHERWISE NOT INCLUDED AS PART OF THE RECONSTRUCTION WORK, SHALL BE REPAIRED/RESTORED BY THE ABATEMENT CONTRACTOR.

6. THE CONTRACTOR SHALL, UPON COMPLETION OF THE REMOVAL, PROVIDE WRITTEN DOCUMENTATION (INCLUDING ALL APPROPRIATE THIRD PARTY TESTING RESULTS) THAT THE PROJECT WORK AREAS ARE COMPLETELY FREE OF ALL ASBESTOS CONTAINING MATERIALS.

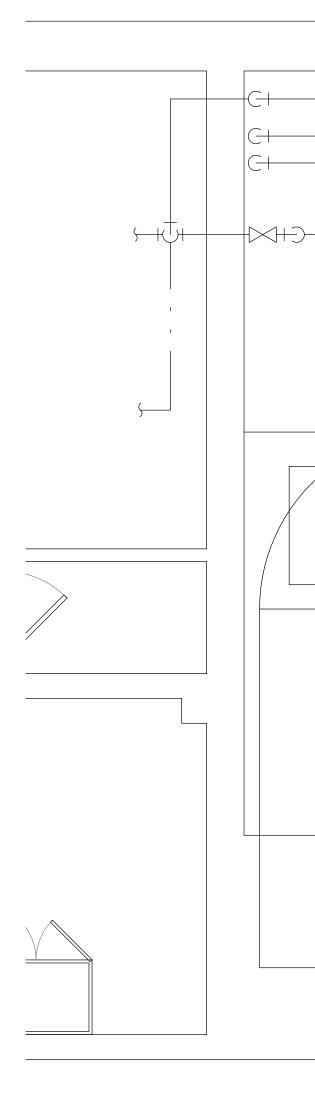
7. THE CONTRACTOR SHALL PROVIDE RECORDS OF ALL ASBESTOS CONTAINING MATERIALS REMOVED FROM THE SITE, INCLUDING THE COMPOSITION AND VOLUMES OF DISPOSED MATERIALS AND THE FINAL DISPOSAL SITE(S).





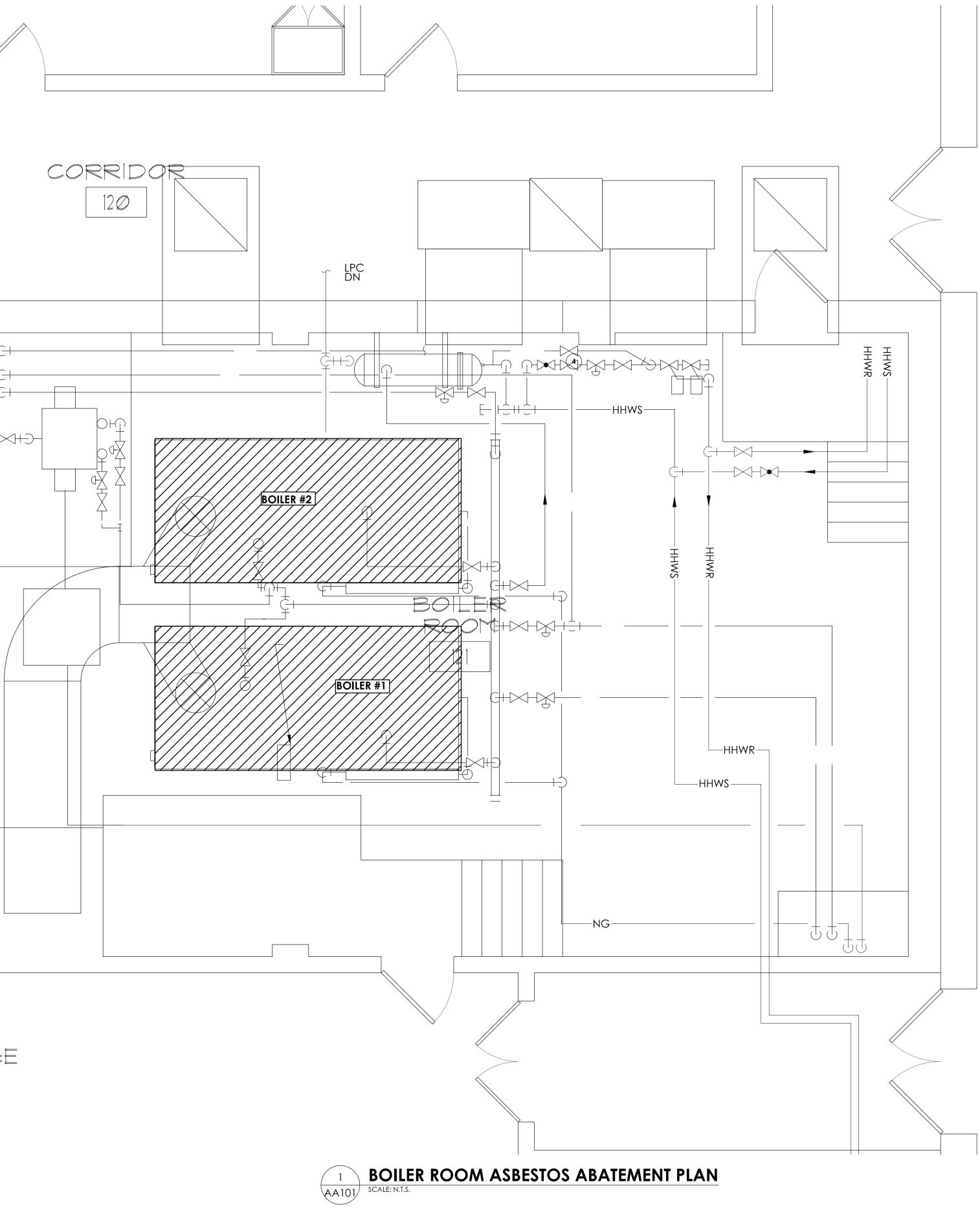
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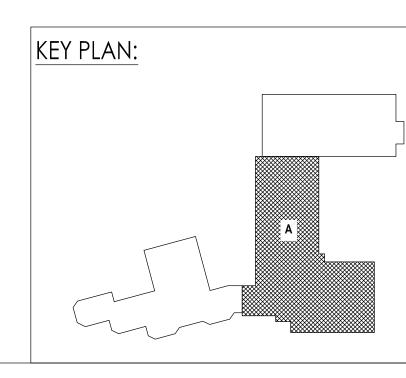
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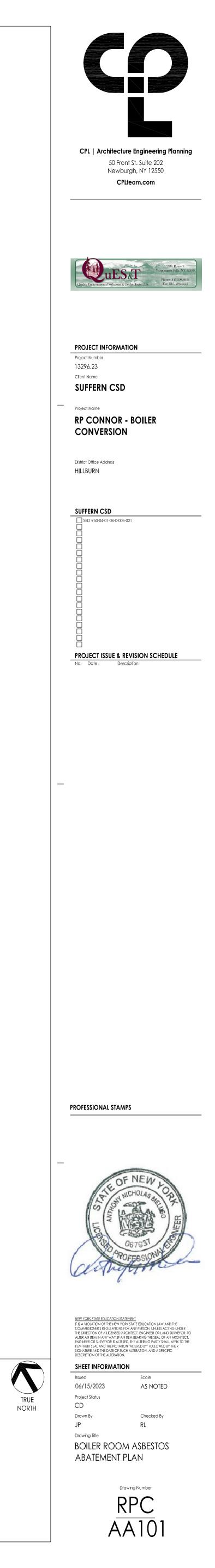


<u>ACM LEGEND:</u>



REMOVE AND DISPOSE OF FRIABLE PRESUMED ASBESTOS CONTAINING BOILER INTERIORS. *SEE SPECIFICATION SECTION #3.17 FOR DETAILS.*





YMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AAD	AUTOMATIC AIR DAMPER		CONNECTION - TOP
ACC	AIR-COOLED CONDENSING UNIT	i⊋i	CONNECTION - BOTTOM
AD	ACCESS DOOR	1 1	
AFF	ABOVE FINISHED FLOOR		DIRECTION OF FLOW
AHU	AIR HANDLING UNIT	Þ	REDUCER
BBD	BOILER BLOW DOWN		CAP OR PLUG
BD	BACKDRAFT DAMPER	с	ELBOW DOWN
СА	COMPRESSED AIR	ю	
CD	COOLING COIL CONDENSATE DRAIN		ELBOW UP
CFM	CUBIC FEET PER MINUTE		TEE OUTLET - UP
CHWR	CHILLED WATER RETURN	::	TEE OUTLET - DOWN
CHWS	CHILLED WATER SUPPLY		UNION
CR	CONDENSER WATER RETURN	X	GATE VALVE
CS	CONDENSER WATER SUPPLY		
CW	DOMESTIC COLD WATER	δ	BALL VALVE
D	DRAIN	⊗	BALANCING VALVE
(E)	EXISTING		STRAINER
EA	EXHAUST AIR	k +	
EC	ELECTRICAL CONTRACTOR	XX	STRAINER WITH BLOW-DOWN
EF	EXHAUST FAN		
ERHC	ELECTRIC REHEAT COIL		BUTTERFLY VALVE
ETR			BUTTERFLY CONTROL VALVE, PNEUMATIC 2-WAY
EUH			BUTTERFLY CONTROL VALVE,
F&T	FLOAT AND THERMOSTATIC TRAP		ELECTRIC ACTUATOR GLOBE VALVE
FCU		<u> </u>	CHECK VALVE
FPM		×	TRIPLE DUTY VALVE
FT	FIN-TUBE	·I∕5I	GAS COCK, PLUG VALVE
GC	GENERAL CONTRACTOR	U/C	UNDERCUT DOOR 1"
GR	GLYCOL RETURN		
GS	GLYCOL SUPPLY	→ <u>t</u> [†]	LOUVERED DOOR W/ SQ. FT. OF FREE AREA
HC		Ŷ	AIR VENT - MANUAL
HHWR	HEATING HOT WATER RETURN	^ A	AIR VENT - AUTOMATIC
HHWS	HEATING HOT WATER SUPPLY		FLANGE
HP	HEAT PUMP	└────────────────────────────────────	CONTROL/SOLENOIND VALVE, ELECTRIC 2-WAY
HPC	HIGH PRESSURE CONDENSATE		
HPS	HIGH PRESSURE STEAM	&	CONTROL VALVE, ELECTRIC 3-WAY
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION		CONTROL VALVE, PNEUMATIC 2-WAY
LPC	LOW PRESSURE CONDENSATE	&	CONTROL VALVE, PNEUMATIC 3-WAY
LPG	LIQUEFIED PROPANE GAS		CONTROL VALVE, PNEUMATIC 3-WAT
LPS	LOW PRESSURE STEAM	A	RELIEF / SAFETY VALVE
МВН	1,000 BTU/HR		
MC	MECHANICAL CONTRACTOR	¥	PRESSURE REDUCING VALVE
MPC	MEDIUM PRESSURE CONDENSATE	 ₽∨	VACUUM BREAKER
MPS	MEDIUM PRESSURE STEAM		FLEXIBLE PIPE CONNECTOR
MRD	MONOFLO FITTING DOWN – HHWR		EXPANSION COMPENSATOR W/ GUIDES
MSD	MONOFLO FITTING DOWN – HHWS		
MUW	MAKE-UP WATER		EXPANSION JOINT
NC	NORMALLY CLOSED	X	PIPE ANCHOR
NG	NATURAL GAS	=	PIPE GUIDE
NO	NORMALLY OPEN		THERMOSTATIC TRAP
NTS	NOT TO SCALE	FT	FLOAT & THERMOSTATIC TRAP
OA	OUTSIDE AIR	_	
PC	PLUMBING CONTRACTOR	BT_ 	BUCKET TRAP
PD	PUMP DISCHARGE		THERMODYNAMIC TRAP
PHWR	PRIMARY HEATING HOT WATER RETURN		THERMOMETER
PHWS	PRIMARY HEATING HOT WATER SUPPLY	 	WELL
RA	RETURN AIR		
RD	REFRIGERANT DISCHARGE		PRESSURE GAUGE
RHC	HOT WATER REHEAT COIL		STEAM PRESSURE GAUGE
RLL	REFRIGERANT LIQUID PIPE	<u>ڳ</u>	WITH 1/4" NEEDLE VALVE
RSL	REFRIGERANT SUCTION PIPE		
RTU	ROOFTOP UNIT		PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
RV	ROOF VENT	<u> </u>	
SA	SUPPLY AIR		PNEUMATIC (CONTROL) TUBING
SHWR	SECONDARY HEATING HOT WATER RETURN	III	BUTTERFLY VALVE WITH PNEUMATIC AND MANUAL OPERATORS
SHWS	SECONDARY HEATING HOT WATER SUPPLY	xx	PIPING
SSI	SPLIT SYSTEM INDOOR SECTION (EVAPORATOR SECTION)		PIPING BELOW GRADE
	SPLIT SYSTEM OUTDOOR SECTION (CONDENSING UNIT)		
IC	TEMPERATURE CONTROLS CONTRACTOR		BASE MOUNTED PUMP
UH			IN-LINE PUMP
			AIR TERMINAL UNIT WITH
UV			REHEAT COIL AND SOUND
V	VENT	<u> </u>	ATTENUATOR
WAHP	WATER-TO-AIR HEAT PUMP		AIR TERMINAL UNIT WITH SOUND ATTENUATOR
WWHP	WATER-TO-WATER HEAT PUMP		AIR TERMINAL UNIT WITH
			REHEAT COIL
			AIR TERMINAL UNIT
		W/W ENCL.	WALL TO WALL FIN TUBE ENCLOSURE

	HVAC SYMBOL	S LIST			
SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION	
(DBL)	DOUBLE WALL LINED DUCT		24X12		
20/10	DUCT SECTION - SUPPLY			SUPPLY / RETURN /	□ 1-1/2 TIMES BRAN
20/10	DUCT SECTION - RETURN/EXHAUST			EXHAUST AIR TAKEOFFS	
	DUCT SECTION - ROUND DUCT IN INCHES				
	DUCT SECTION - FLAT OVAL DUCT IN INCHES				
	ACOUSTIC THERMAL LINING		24X12	SUPPLY / RETURN /	The second secon
	FLEXIBLE DUCTWORK	ţ.		EXHAUST AIR TAKEOFFS	
1					
I FC	FLEXIBLE CONNECTION		14"Ø		2
				SUPPLY AIR	
	FIRE DAMPER			TAKEOFFS	
			-		
	SMOKE DAMPER		\mathbf{T}		$\widehat{\boldsymbol{\nabla}}$
				SUPPLY AIR	
	COMBINATION FIRE AND SMOKE DAMPER			TAKEOFFS	10.10
.		۲			
	VOLUME DAMPER				
	DAMPER CONTROL, PARALLEL BLADE		24X12 6X12 - 12X10		
	DAMPER CONTROL, OPPOSED BLADE			SUPPLY AIR TAKEOFFS	
	DAMIFER CONTROL, OFFOSED BLADE		- 20X12		20X12
┤	AUTOMATIC AIR DAMPER				
			24X12	SUPPLY/RETURN EXHAUST AIR	
		AAD		TAKEOFFS W/	24X12
	BACK DRAFT DAMPER			REGISTER/GRILLE/ DIFFUSER	
008		BDD			VD
┨ ───┼───	BLAST GATE			SUPPLY/RETURN	
BG		BG		EXHAUST AIR END OF MAIN	
		12X10		BRANCH TAKEOFFS	
- 12X10	AIR DUCT (FIRST FIGURE IS DUCT WIDTH/TOP,	12X10			-M
	SECOND FIGURE IS DUCT DEPTH)			SUPPLY/RETURN	
10/20 -7		10/20 Z		EXHAUST AIR END OF MAIN	Kry I
	BDD BLAST GATE BLAST GATE 20/10 AIR DUCT (FIRST FIGURE IS DUCT WIDTH/TOP, SECOND FIGURE IS DUCT DEPTH)			BRANCH TAKEOFFS	UVD
					-
			$+$ γ	LONG RADIUS	W R
				90° ELBOW R/W=1.5	
	FILTER			LONG RADIUS	
				45° ELBOW R/W=1.5	
	TRANSITION SQUARE TO ROUND				I
	HUMIDIFIER DISPERSION TUBE		\sim	90° ELBOW	Ľ
RISE				WITH TURNING VANES	
	RISE IN DUCT				
	DROP IN DUCT		18X16 18X8	90 VERTICAL	18X8
	SQUARE CEILING DIFFUSER (4 WAY)			SPLIT OFF (PLAN VIEW)	18X16 18X8
©	ROUND CEILING DIFFUSER		18X8		······
	SQUARE OR RECTANGULAR CEILING GRILLE		20X10 20X10	DUCT TURNING	
	SUPPLY REGISTER, RETURN OR EXHAUST GRILLE			UP OR DOWN	20X10
				AIR TERMINAL UNIT-DUCT	WORK
1-WAY 2-WAY 3-WAY	SUPPLY DIFFUSER, 1-WAY, 2-WAY, 3-WAY			MAX = MAXIMUM CFM MIN = MINIMUM CFM	
	CEILING DIFFUSER		GPM	AIR TERMINAL UNIT-DUCT U - UNIT TYPE	WORK
8"Ø, D-3 300 CFM	WITH NECK SIZE, TYPE, & CFM			GPM = GALLONS PER MIN MAX = MAXIMUM GPM	1
	CEILING RETURN OR EXHAUST GRILLE			FAN POWERED AIR TERMINAL UNIT	
10"x10", G-3 300 CFM			U MIN FAN	U - UNIT TYPE MAX = PRIMARY MAX CF	
10"x8", R-2	SUPPLY REGISTER			MIN = PRIMARY MIN CFM FAN = FAN CFM	
300 CFM	WITH SIZE, TYPE, & CFM		ТҮРЕ	TYPE = VALANCE TYPE	
10"x8", G-2	RETURN OR EXHAUST GRILLE		COIL SIZE CLNG GPM	COIL SIZE = COIL LENGTH CLNG GPM = COOLING (GPM
∑ 300 CFM ^V	WITH SIZE, TYPE, & CFM		HTNG GPM	HTNG GPM = HEATING G	
	AIR FLOW			X = DIFFUSER OR GRILL T	
L1	ACOUSTIC/THERMAL DUCTWORK LINING - 1 INCH THICK			XX = AIR FLOW VALUE (CFM)
L2	ACOUSTIC/THERMAL DUCTWORK LINING - 2 INCH THICK				
PL1	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 1 INCH THICK]		
PL2	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 2 INCH THICK		1		

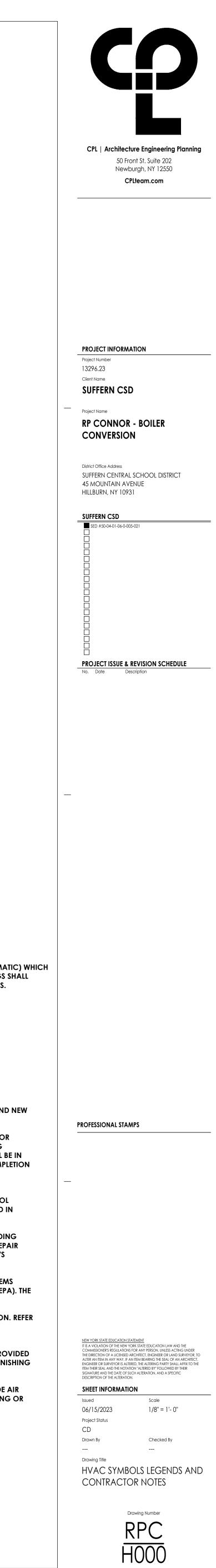
	SYMBOL	DESCRIPTION
	Ep	ELECTRIC/PNEUMATIC SWITCH OR RELAY
TIMES BRANCH SIZE	PE	PNEUMATIC/ELECTRIC SWITCH OR RELAY
10	СТ	CURRENT TRANSDUCER
	\otimes	OPEN/CLOSED
TIMES BRANCH SIZE) Ø	START/STOP
		ENABLE/DISABLE
<u> </u>	$\overline{\mathbb{V}}$	TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)
	$\overline{\forall}$	HUMIDITY SENSOR (DUCT MOUNTED)
CAL TEE		FLOW TRANSMITTER
	$\overline{\mathbb{V}}$	PRESSURE TRANSMITTER
<u> </u>		DIFFERENTIAL PRESSURE TRANSMITTER
		ELECTRIC/PNEUMATIC TRANSDUCER
		ELECTRIC/ELECTRONIC TRANSDUCER
AL	<u>لې</u>	DUCT SMOKE DETECTOR
10"Ø 9	 	SPACE THERMOSTAT
VU	$\overline{\nabla}$	SPACE TEMPERATURE SENSOR
		SPACE CARBON DIOXIDE SENSOR
		SPACE NATURAL GAS SENSOR
2X10 2		SPACE CARBON MONOXIDE SENSOR
		SPACE SENSOR WITH GUARD
	VG ⊕	SPACE HUMIDISTAT
2X10	FS FS	WATER FLOW SENSOR
VD		PNEUMATIC ACTUATOR
	VSD VFD	VARIABLE SPEED / FREQUENCY DRIVE
		COOLING COIL
		HEATING COIL
		GAS FURNACE
	Г	HUMIDIFIER
<u> </u>	A	ALARM
	S	
ı	3 (FS)	STATUS FLOW SWITCH
		DIFFERENTIAL STATIC PRESSURE SWITCH
, M	R	
		RELAY
	FZ	PRESSURE GAUGE FREEZE-STAT
		DIGITAL INPUT (TO BUILDING MANAGEMENT SYSTEM)
ĽÝ		DIGITAL OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
		ANALOG OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
		ANALOG INPUT (TO BUILDING MANAGEMENT SYSTEM)
	\square	ELECTRICAL INTERFACE
	SF	SPEED FEED BACK
	ES	END SWITCH
r	PF	POSITION FEEDBACK
	~	TRAVERSE AVERAGING SENSOR
18X8	•	PROBE SENSOR
	ഹം	FREEZE STAT SENSOR

SYMBOLS GENERAL NOTES:

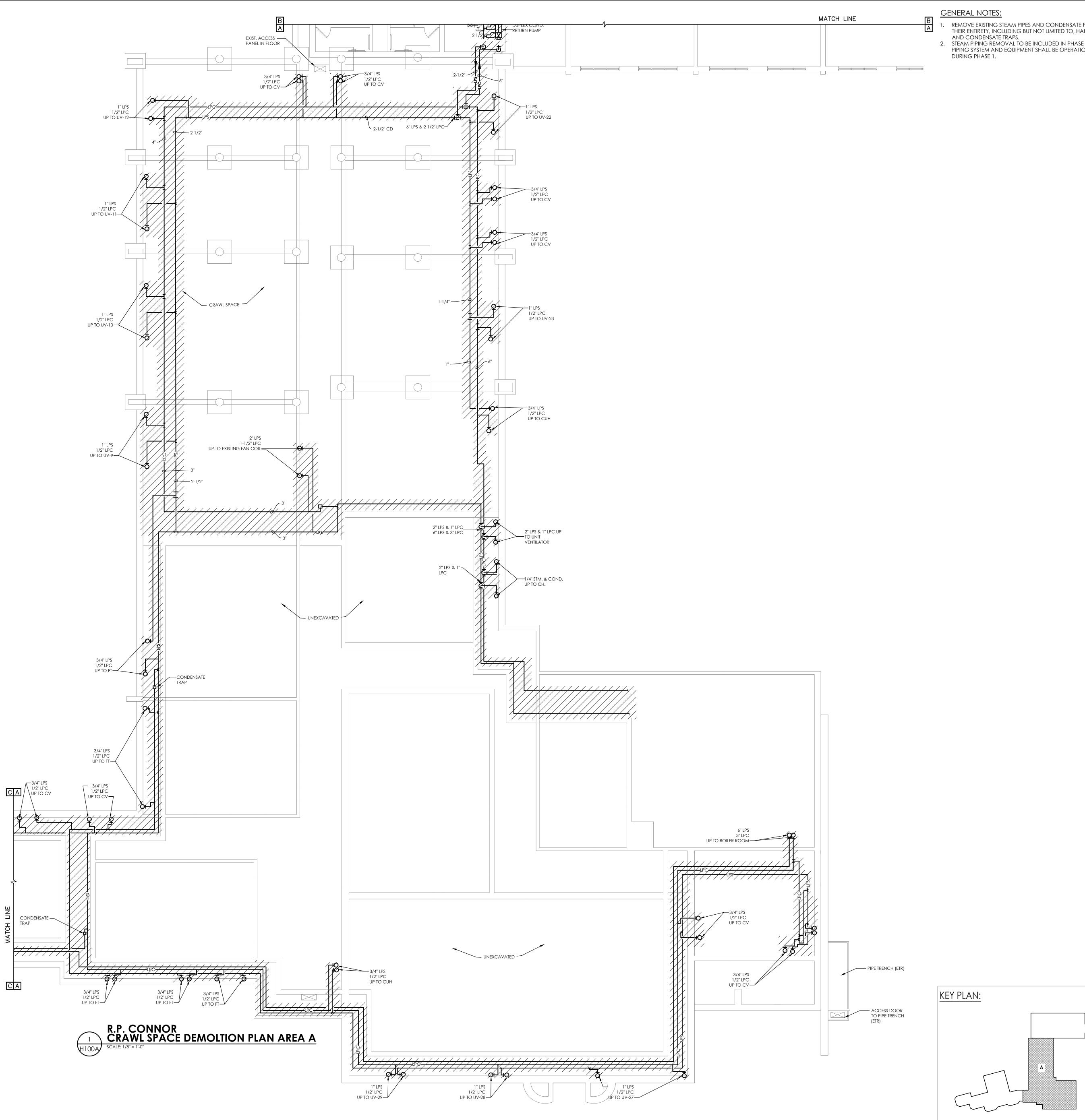
1) VALVE AND DAMPER ACTUATOR TYPES (ELECTRIC OR PNEUMATIC) WHICH ARE INDICATED IN HVAC TEMPERATURE CONTROL DRAWINGS SHALL SUPERSEDE TYPE INDICATED ON ALL OTHER HVAC DRAWINGS.

HVAC CONTRACTOR GENERAL NOTES:

- A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.
- B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS, FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING. THE EXISTING CEILINGS SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE TO THE CEILING SYSTEMS. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIAL SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.
- C. DEMOLITION DRAWINGS SHOW MAJOR EQUIPMENT, PIPING, AND DUCTWORK REMOVALS. THE INTENT IS NOT TO IDENTIFY ALL MISCELLANEOUS PIPING, PIPING ACCESSORIES, DUCTWORK, DUCTWORK ACCESSORIES, SUPPORTS, CONTROLS, CONTROL ACCESSORIES, CONTROL WIRING, CONDUIT, AND PNEUMATIC CONTROL TUBING TO BE DISCONNECTED AND REMOVED, BUT IS THE REQUIREMENT UNDER THIS CONTRACT. NO EQUIPMENT, PIPING, OR DUCTWORK SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- D. ALL EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE DISCONNECTED AND REMOVED FROM THE EXISTING SYSTEMS AND DELIVERED (INCLUDING LOADING AND UNLOADING) TO A STORAGE AREA WITHIN THE BUILDING AS SELECTED BY THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY EQUIPMENT DAMAGED DURING REMOVAL AND DELIVERY. ANY DAMAGE TO EQUIPMENT PRIOR TO DISCONNECTING SHOULD BE REPORTED TO THE OWNER'S REPRESENTATIVE. IF NOT REPORTED, THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR REPAIRS TO THE EQUIPMENT.
- BEFORE DISCONNECTING, REMOVING, OR SERVICING ANY AIR CONDITIONING EQUIPMENT OR SYSTEMS CONTAINING REFRIGERANTS, THE EQUIPMENT OR SYSTEMS SHALL BE EVACUATED OF ALL REFRIGERANT PER THE LATEST ADOPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). THE CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE CERTIFIED BY AN EPA APPROVED CERTIFYING AGENCY OR ORGANIZATION.
- F. ALL DUCTWORK, PIPING, AND CONDUIT PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPINGS PER SPECIFICATION. REFER TO CODE ANALYSIS DRAWING FOR ALL RATED WALL LOCATIONS. ALL FLOORS SHALL BE CONSIDERED RATED.
- G. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THIS CONTRACT TO PATCH AND FINISH ALL EXISTING DUCTWORK OR PIPE PENETRATIONS THROUGH FLOORS, ROOFS, INTERIOR WALLS, AND EXTERIOR WALLS AFTER DEMOLITION WORK. IN ADDITION, ALL NEW PENETRATIONS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, CURBING, DUCTWORK, PIPING, CONTROLS, ETC. PATCHING AND FINISHING SHALL MATCH EXISTING CONSTRUCTION INCLUDING FIRE RATINGS. PROVIDE LINTELS PER LINTEL SCHEDULE.
- H. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL AIR VENTS AND DRAINS IN THE PIPING SYSTEMS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AIR VENTS AT ALL SYSTEM HIGH POINTS AND AT AREAS WITHIN THE PIPING SYSTEMS THAT COULD ACCUMULATE OR TRAP AIR WHICH WOULD PREVENT PROPER VENTING OR OPERATION OF THE SYSTEMS. DRAINS SHALL BE PROVIDED AT ALL LOW POINTS WITHIN THE PIPING SYSTEM TO FACILITATE COMPLETE DRAINING OF THE SYSTEM.
- I. PROVIDE THERMAL EXPANSION COMPENSATORS AND THERMAL EXPANSION LOOPS IN PIPING SYSTEM PER INDUSTRY STANDARDS.

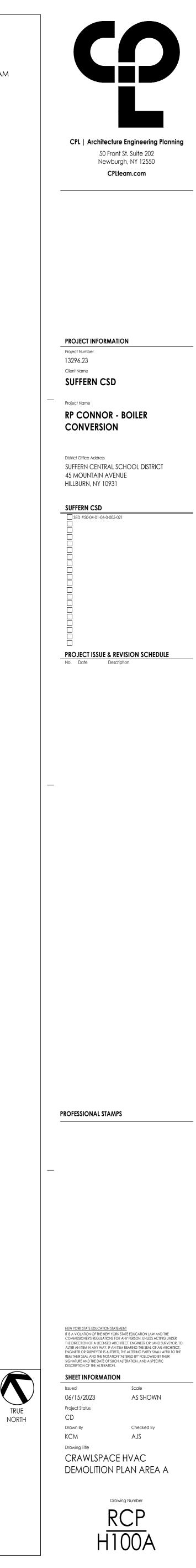


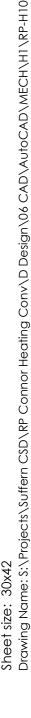
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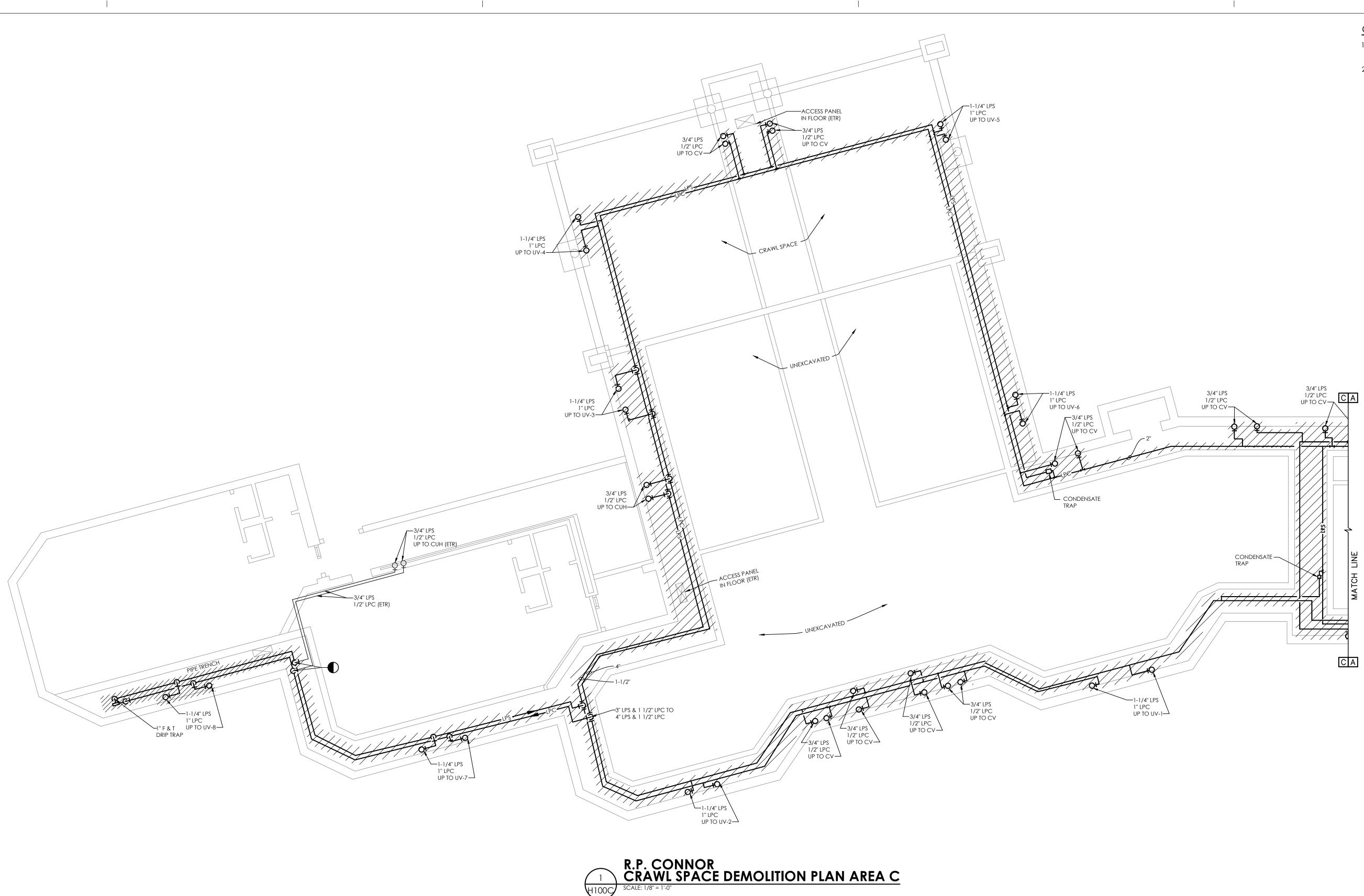


M	ATCH LINE	<u>ה G</u>	ENERAL NOTES:
		1. 2.	REMOVE EXISTING STEAM PIPES AND CONDENSAT THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO, H AND CONDENSATE TRAPS. STEAM PIPING REMOVAL TO BE INCLUDED IN PHAS PIPING SYSTEM AND EQUIPMENT SHALL BE OPERAT DURING PHASE 1.

ISATE PIPE IN O, HANGERS PHASE 2. STEAM ERATIONAL



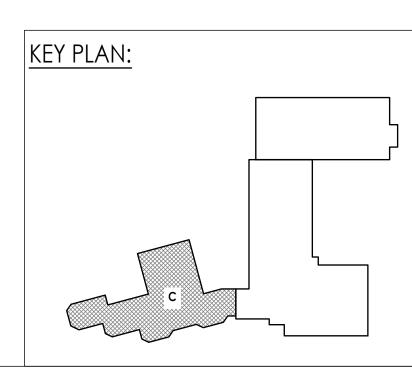




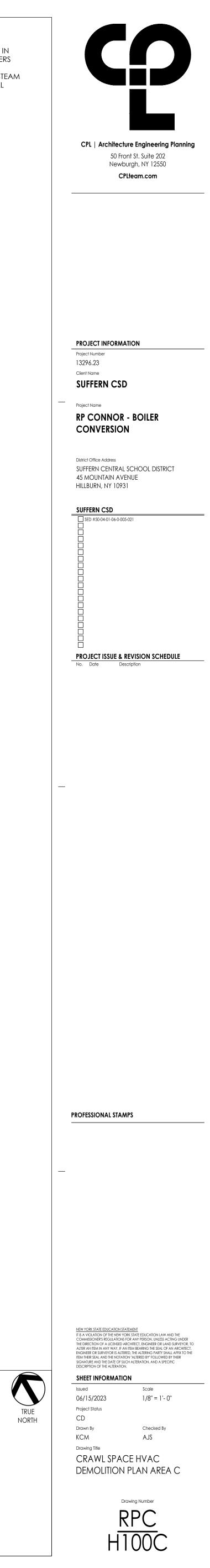
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GENERAL NOTES:

- REMOVE EXISTING STEAM PIPES AND CONDENSATE PIPE IN THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO, HANGERS AND CONDENSATE TRAPS.
 STEAM PIPING REMOVAL TO BE INCLUDED IN PHASE 2. STEAM PIPING SYSTEM AND EQUIPMENT SHALL BE OPERATIONAL DURING PHASE 1.







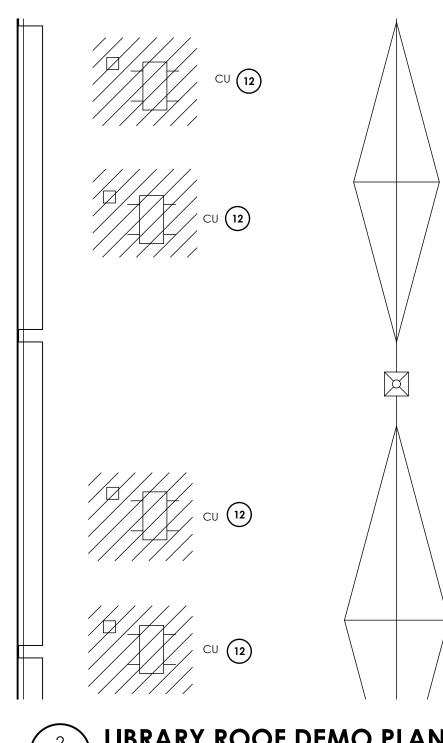


GENERAL NOTES:

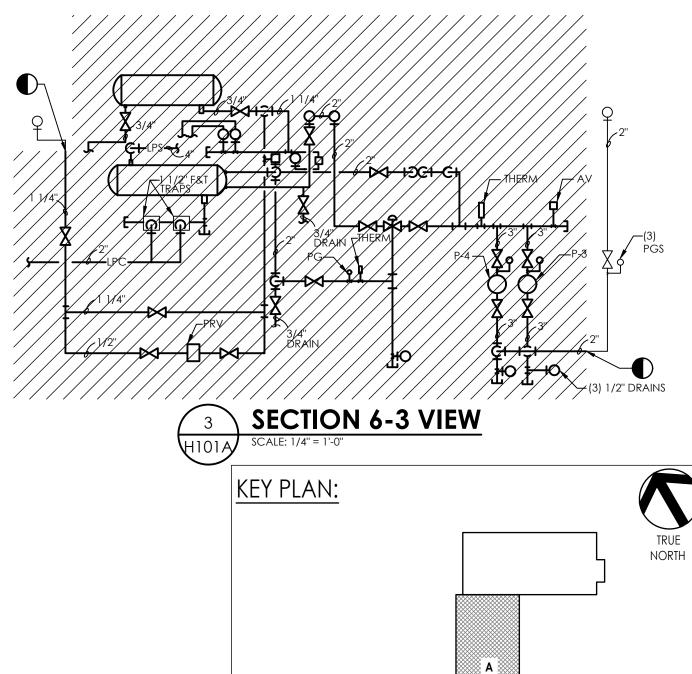
- 1. ALL STEAM UNIT VENTILATORS, CABINET UNIT HEATERS, CONVECTORS, AND FIN TUBE TO BE REMOVED DURING PHASE 2. STEAM SYSTEM SHALL REMAIN OPERATIONAL
- DURING PHASE 1. 2. SEE DRAWINGS H700 AND H701 FOR BOILER ROOM PHASING DRAWINGS.

<u>KEY NOTES:</u>

- REMOVE EXISTING STEAM BOILERS IN THEIR ENTIRETY INCLUDING ALL LPS AND LPC PIPING, BREACHING, GAS TRAIN, CONTROLS, ETC. COORDINATE REQUIREMENTS OF NEW BOILERS PRIOR TO DEMOLITION OF EXISTING BOILER.
- 2 REMOVE EXISTING STEAM UNIT VENTILATOR IN ITS ENTIRETY INCLUDING ALL PIPING, CONTROLS AND TEMPERATURE SENSORS, COORDINATE REQUIREMENTS OF NEW LIN CONTROLS, AND TEMPERATURE SENSORS. COORDINATE REQUIREMENTS OF NEW UNIT PRIOR TO DEMOLITION OF EXISTING UNIT.
- 3 REMOVE EXISTING CONVECTOR IN ITS ENTIRETY INCLUDING ALL PIPING, CONTROLS, AND TEMPERATURE SENSORS.
- REMOVE EXISTING STEAM TO HOT WATER HEAT EXCHANGER AND EXPANSION TANK IN THEIR ENTIRETY. REMOVE HOT WATER PIPING TO POINT INDICATED AND PREPARE FOR
- NEW WORK. SAVE EXISTING PUMP P-3 AND P-4 TO BE REUSED.
- 5 REMOVE EXISTING VACUUM CONDENSATE RETURN PUMP AND CONDENSATE FEED TANK IN THEIR ENTIRETY INCLUDING ALL PIPING.
- REMOVE EXISTING FIN TUBE IN ITS ENTIRETY INCLUDING ALL STEAM TRAPS, PIPING AND
 TEMPERATURE SENSORS. PREPARE FOR NEW WORK.
- REMOVE EXISTING COMBUSTION AIR LOUVERS AND DUCTWORK IN THEIR ENTIRETY UP TO GRAVITY VENTILATORS ON ROOF. PREPARE FOR NEW WORK.
- $(\mathbf{8})$ REMOVE GAS PIPING BACK TO POINT INDICATED. PREPARE FOR NEW WORK.
- (9) REMOVE EXISTING COLD WATER SUPPLY LINE BACK TO POINT INDICATED AND CAP.
- 10 REMOVE EXISTING STEAM COIL IN EXISTING FAN COIL AND ALL SYSTEM PIPING BACK TO MAIN. PREPARE FOR NEW WORK.
- 11 REMOVE ALL EXISTING REFRIGERANT PIPING FROM COOILING COIL UP TO CONDENSER ON ROOF ABOVE.
- 12 REMOVE EXISTING CONDENSING UNIT IN ITS ENTIRETY INCLUDING ALL REFRIGERANT PIPING AND PIPE PORTALS. EXISTING ROOF RAILS TO REMAIN AND BE REUSED. PREPARE
- FOR NEW WORK. MAINTAIN ALL EXISTING ROOF WARRANTIES.
- (13) REMOVE CAPPED PIPING BACK TO MAIN.
- (14) INFILL EXISTING LOUVER WITH LIKE CONSTRUCTION.
- 15 REMOVE EXISTING THERMOSTAT AND CONTROLS. PREPARE FOR NEW. COORDINATE REQUIREMENTS OF NEW THERMOSTAT PRIOR TO DEMOLITION OF EXISTING THERMOSTAT.

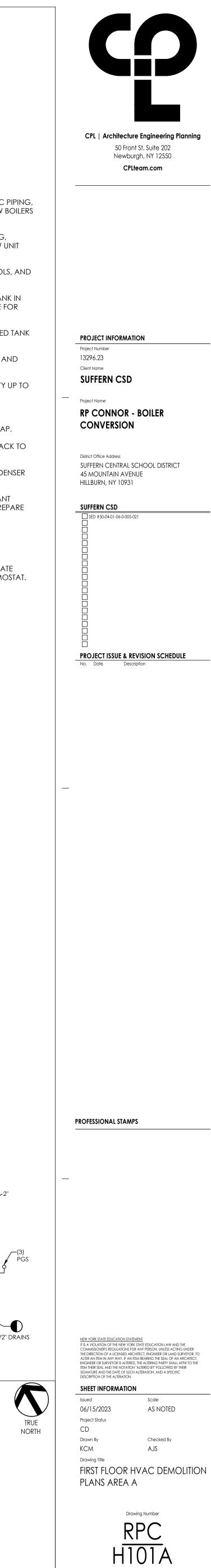


LIBRARY ROOF DEMO PLAN SCALE: 1/4" = 1'-0" 2 H101A



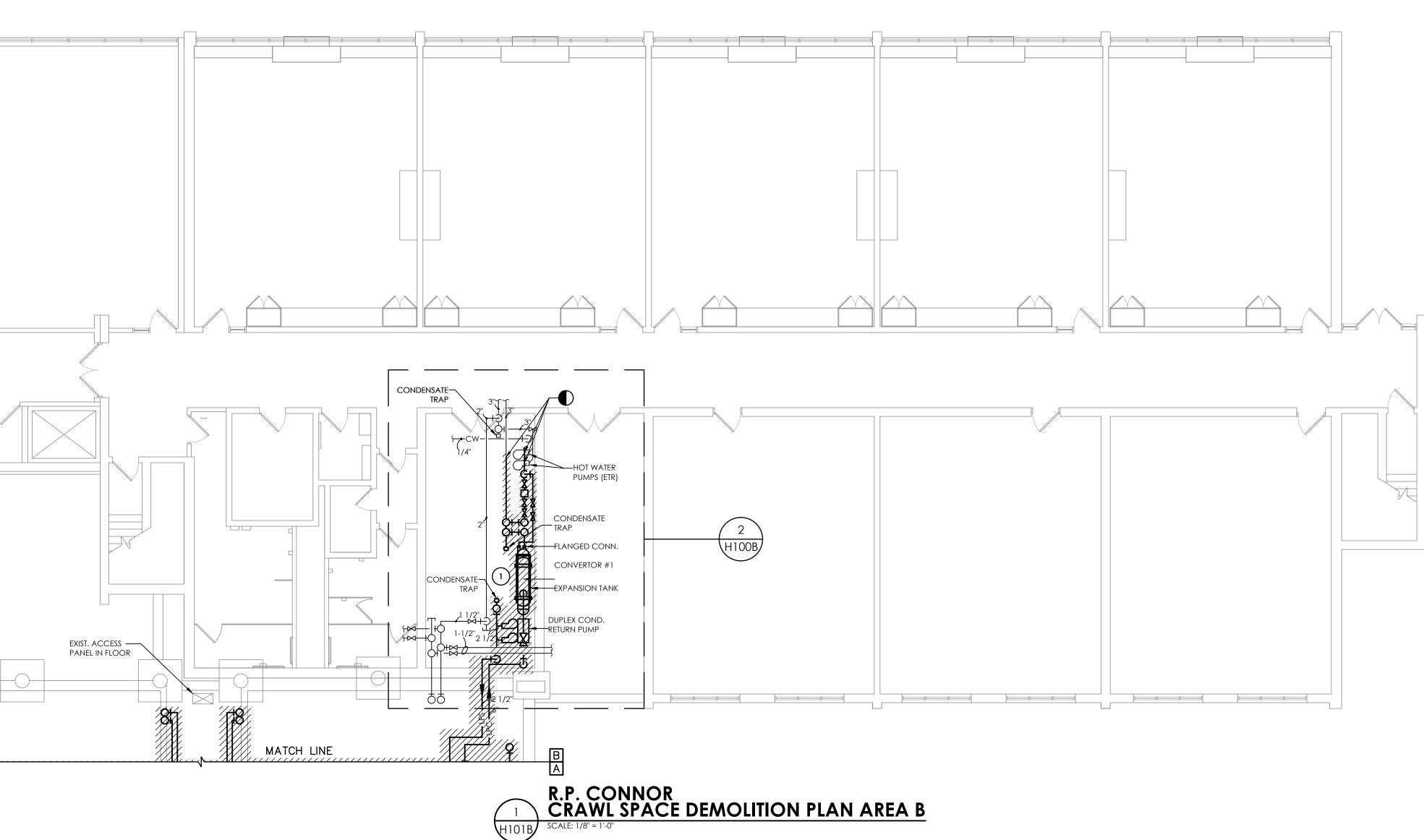
H700/J

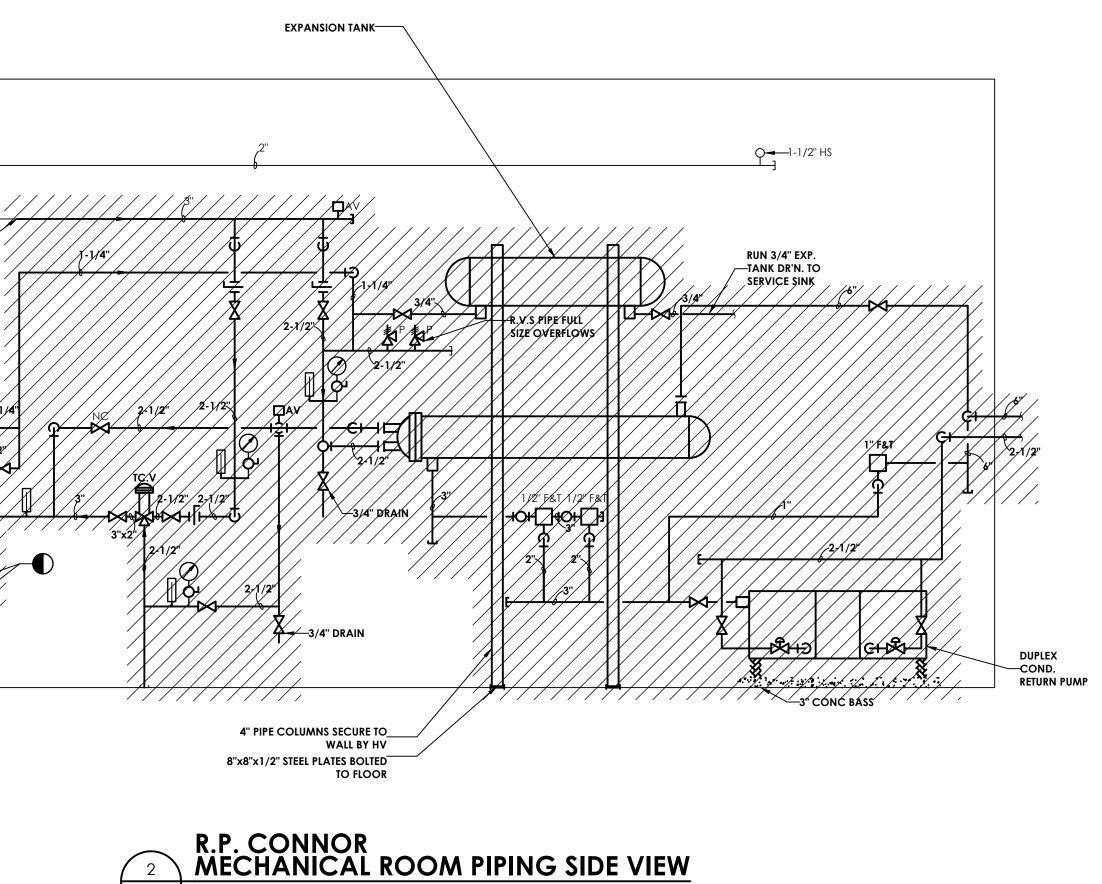
BOYS



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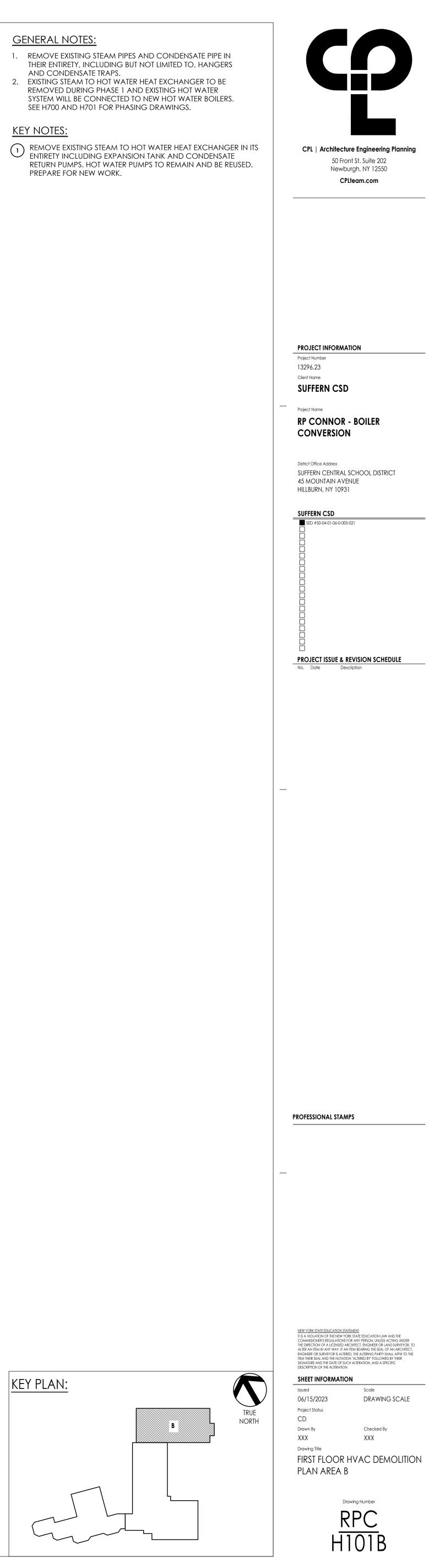




H101B

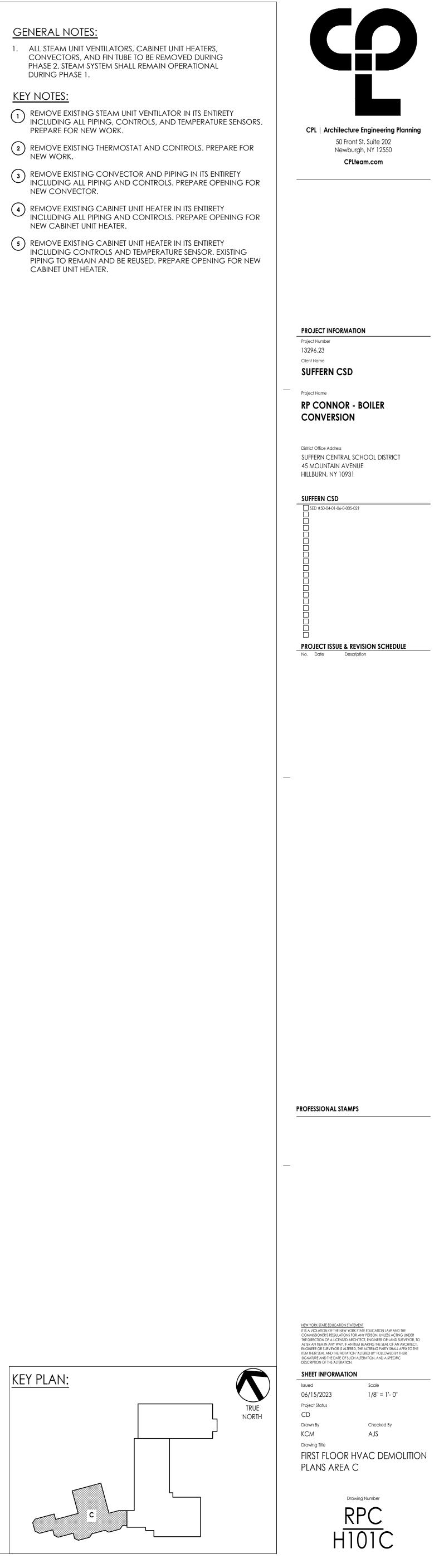
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1" UP TO UV-13 AND FT—∕

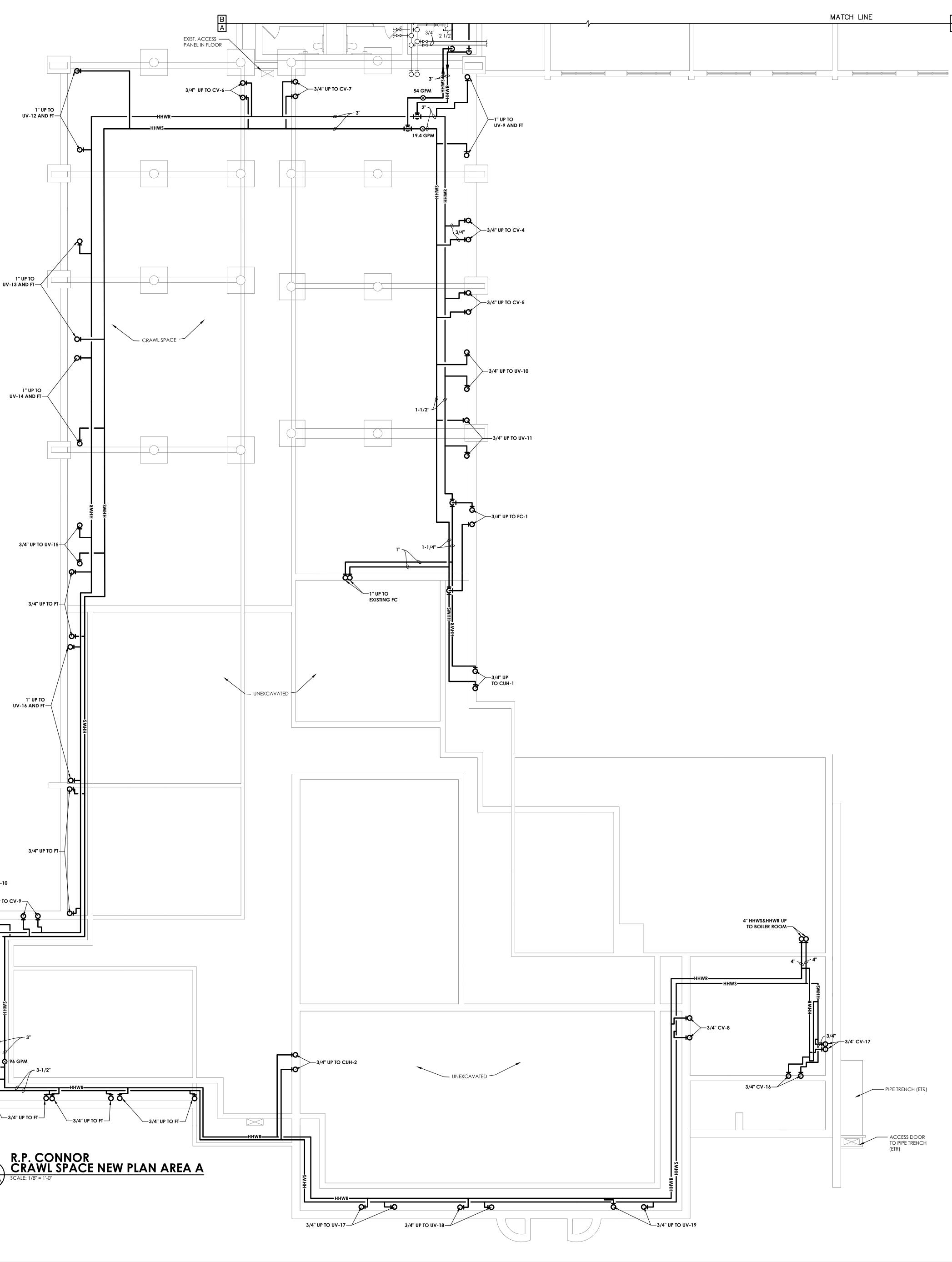
3/4" UP TO UV-15-

1" UP TO UV-16 AND FT──

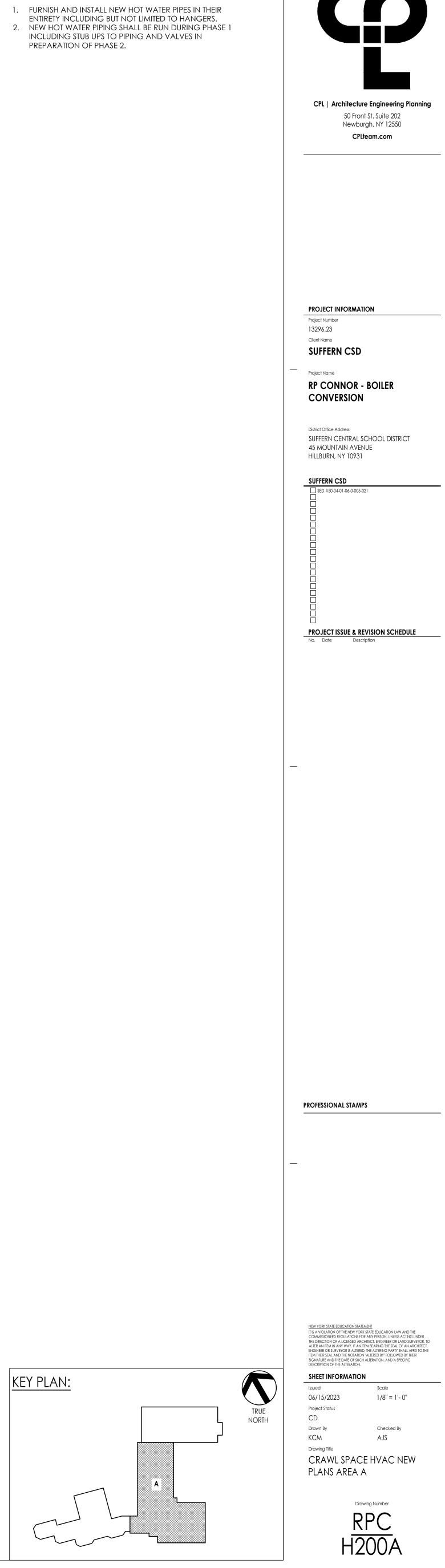
3/4" UP TO FT-

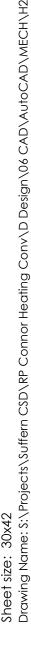
____3/4" UP TO CV-10 CA **∠** 2 1/2" 42 GPM 🔊 96 GPM , 6, CA

H200A

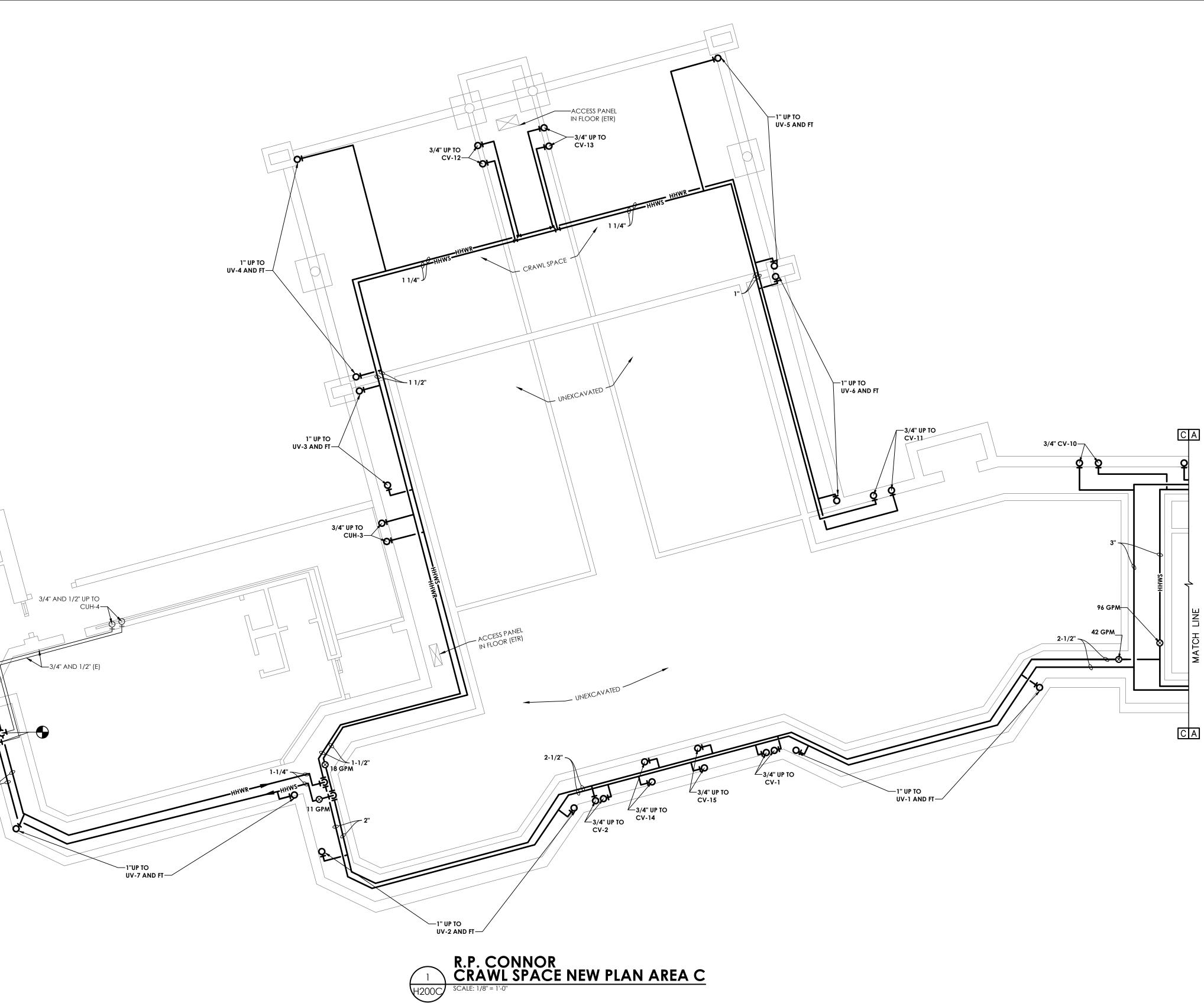


GENERAL NOTES: B



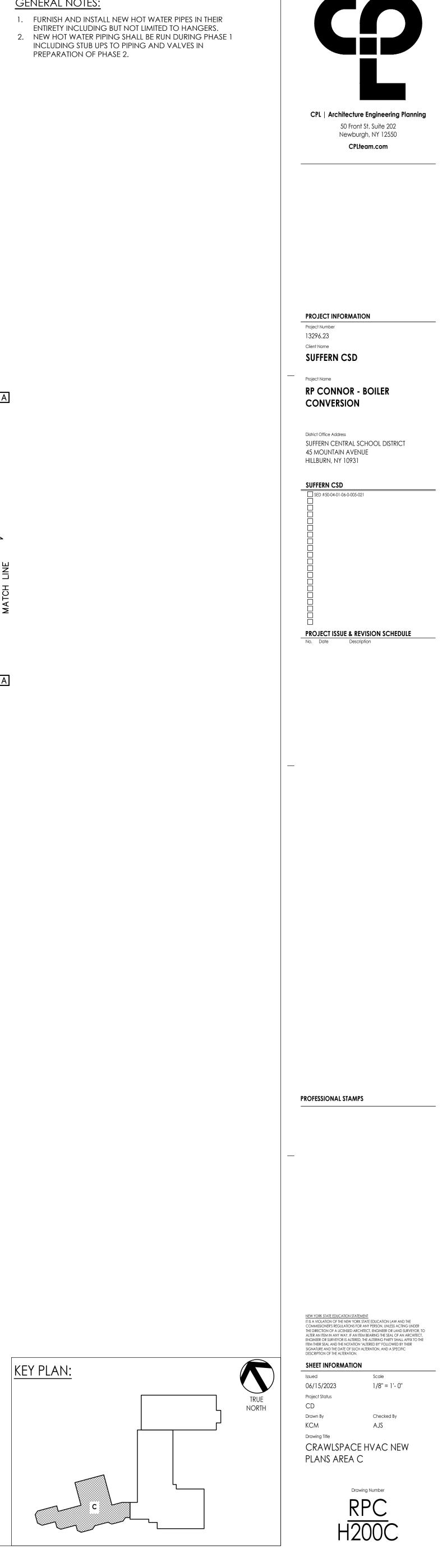


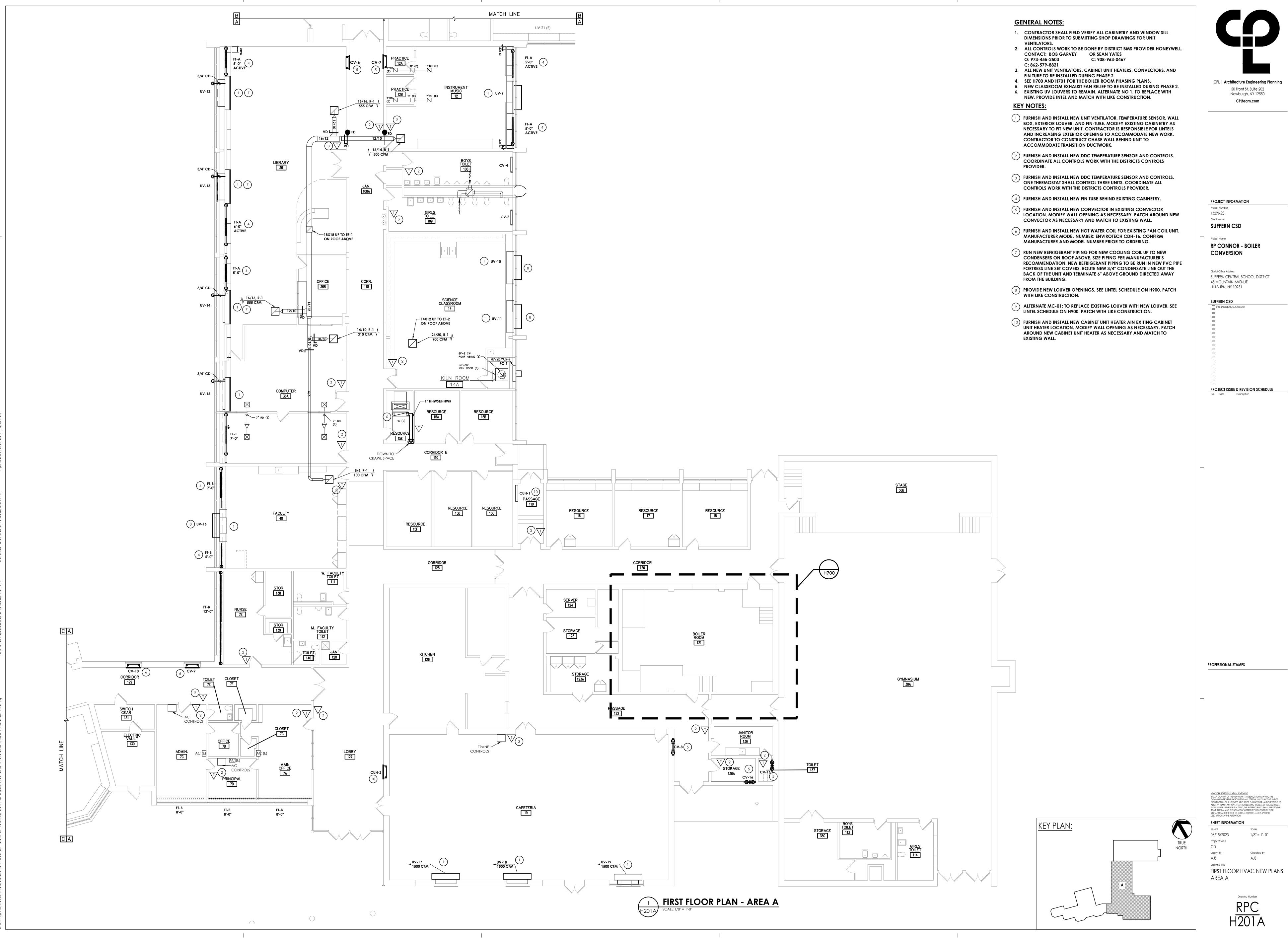
KEEP PIPING CLEAR OF ACCESS DOOR IN FLOOR —1" UP TO UV-8 AND FT—

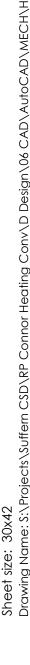


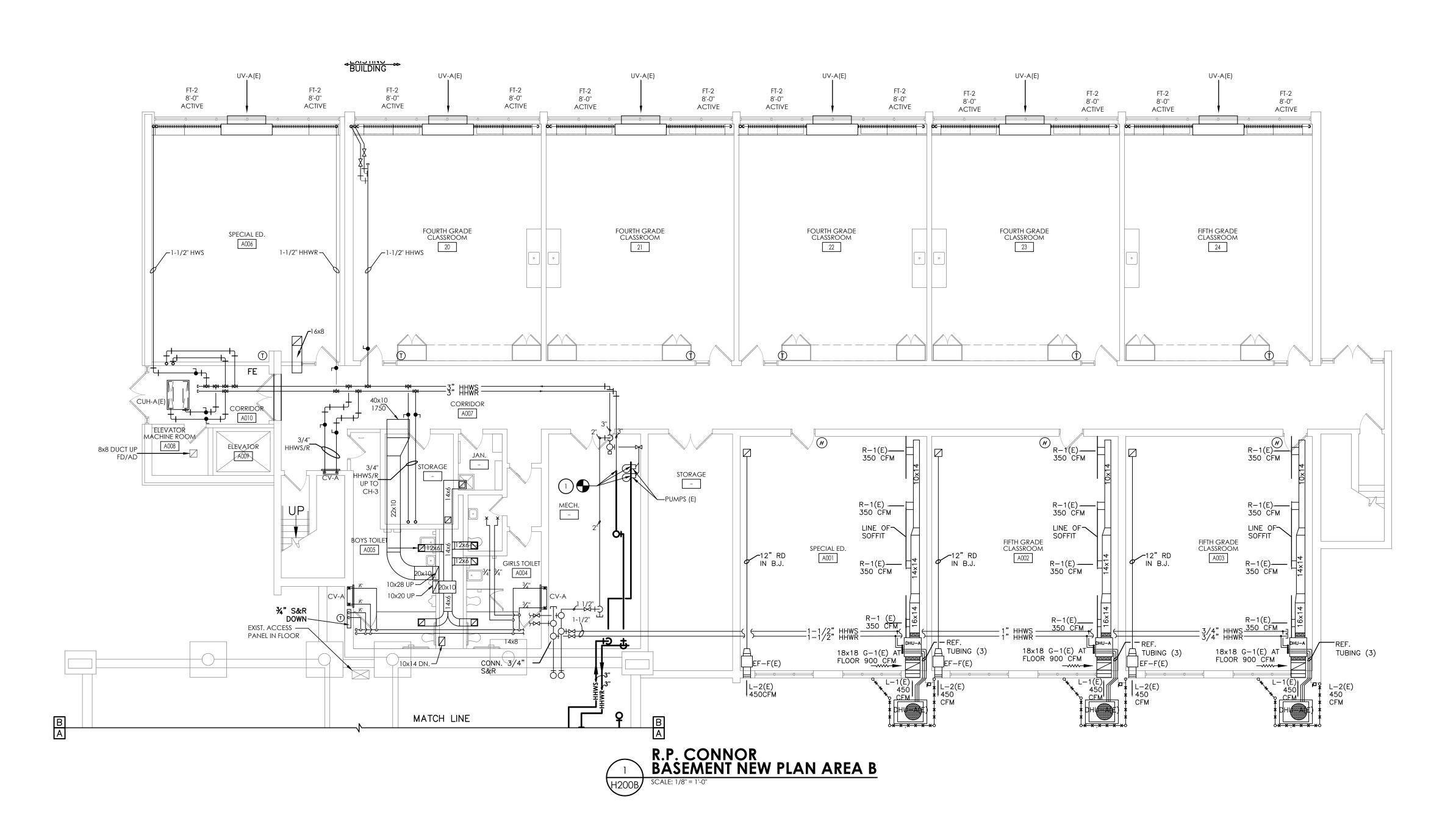
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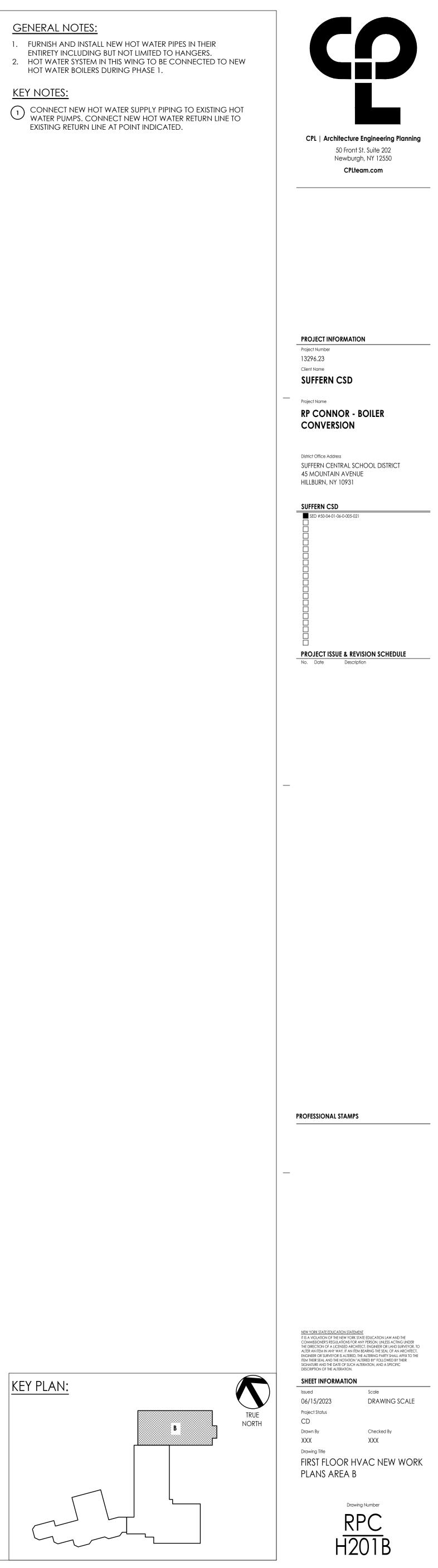






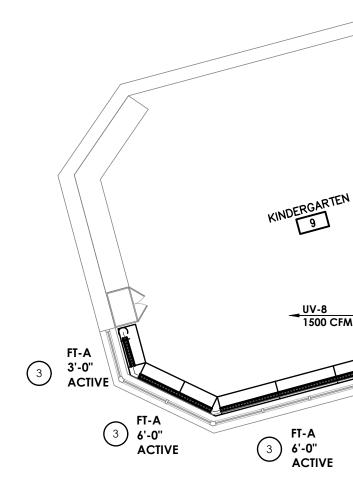


- HOT WATER BOILERS DURING PHASE 1.



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 I
 FIRST FLOOR PLAN - AREA C

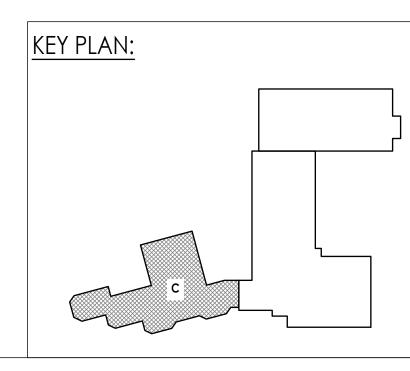
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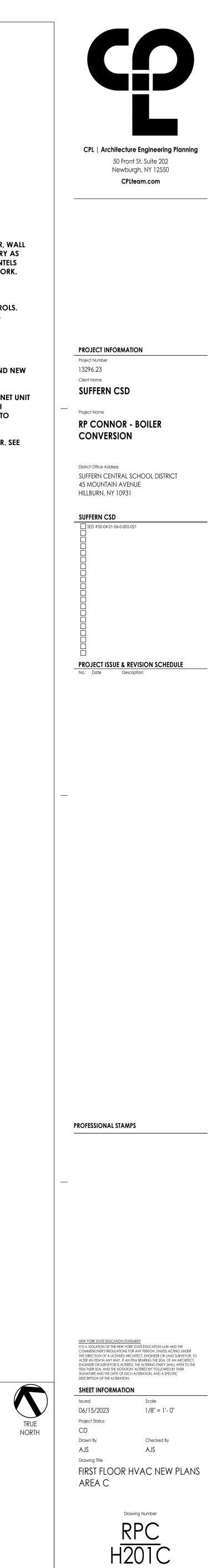
GENERAL NOTES:

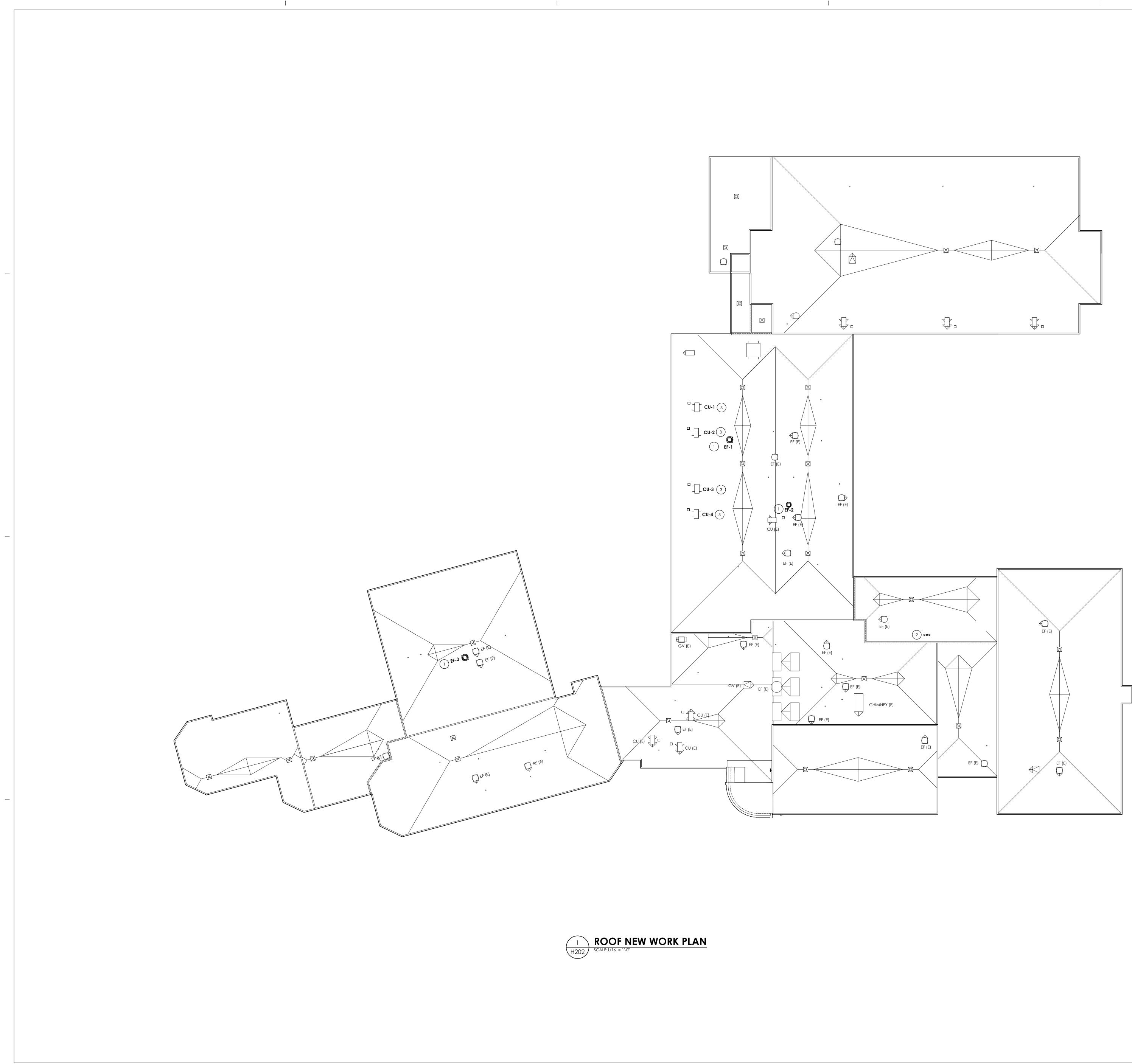
- 1. CONTRACTOR SHALL FIELD VERIFY ALL CABINETRY AND WINDOW SILL DIMENSIONS PRIOR TO SUBMITTING SHOP
- DRAWINGS. 2. ALL CONTROLS WORK TO BE DONE BY DISTRICT BMS PROVIDER HONEYWELL. CONTACT: BOB GARVEY OR SEAN YATES O: 973-455-2503 C: 908-963-0467
- C: 862-579-8821 3. ALL NEW UNIT VENTILATORS, CABINET UNIT HEATERS, CONVECTORS, AND FIN TUBE TO BE INSTALLED DURING
- PHASE 2.
 4. NEW CLASSROOM EXHAUST FAN RELIEF TO BE INSTALLED DURING PHASE 2.
- 5. EXISTING UV LOUVERS TO REMAIN. ALTERNATE NO 1. TO REPLACE WITH NEW. PROVIDE INTEL AND MATCH WITH LIKE CONSTRUCTION.

KEY NOTES:

- FURNISH AND INSTALL NEW UNIT VENTILATOR, TEMPERATURE SENSOR, WALL BOX, EXTERIOR LOUVER, AND FIN-TUBE. MODIFY EXISTING CABINETRY AS NECESSARY TO FIT NEW UNIT. CONTRACTOR IS RESPONSIBLE FOR LINTELS AND INCREASING EXTERIOR OPENING TO ACCOMMODATE NEW WORK. CONTRACTOR TO CONSTRUCT CHASE WALL BEHIND UNIT TO ACCOMMODATE TRANSITION DUCTWORK.
- 2 FURNISH AND INSTALL NEW DDC TEMPERATURE SENSOR AND CONTROLS. COORDINATE ALL CONTROLS WORK WITH THE DISTRICTS CONTROLS PROVIDER.
- 3 FURNISH AND INSTALL NEW FIN TUBE BEHIND EXISTING CABINETRY.
- **4** FURNISH AND INSTALL NEW CONVECTOR IN EXISTING CONVECTOR LOCATION. MODIFY WALL OPENING AS NECESSARY. PATCH AROUND NEW CONVECTOR AS NECESSARY AND MATCH TO EXISTING WALL.
- 5 FURNISH AND INSTALL NEW CABINET UNIT HEATER IN EXISTING CABINET UNIT HEATER LOCATION. MODIFY WALL OPENING AS NECESSARY. PATCH AROUND NEW CABINET UNIT HEATERS AS NECESSARY AND MATCH TO EXISTING WALL.
- 6 ALTERNATE MC-01 TO REPLACE EXISTING LOUVER WITH NEW LOUVER. SEE LINTEL SCHEDULE ON H900. PATCH WITH LIKE CONSTRUCTION.







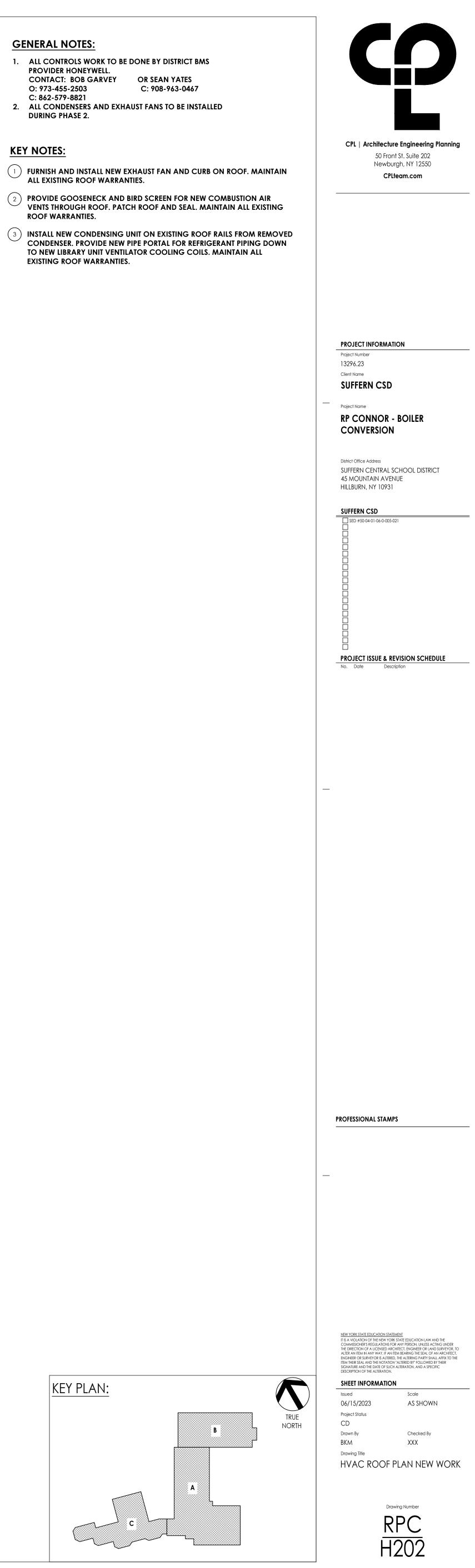


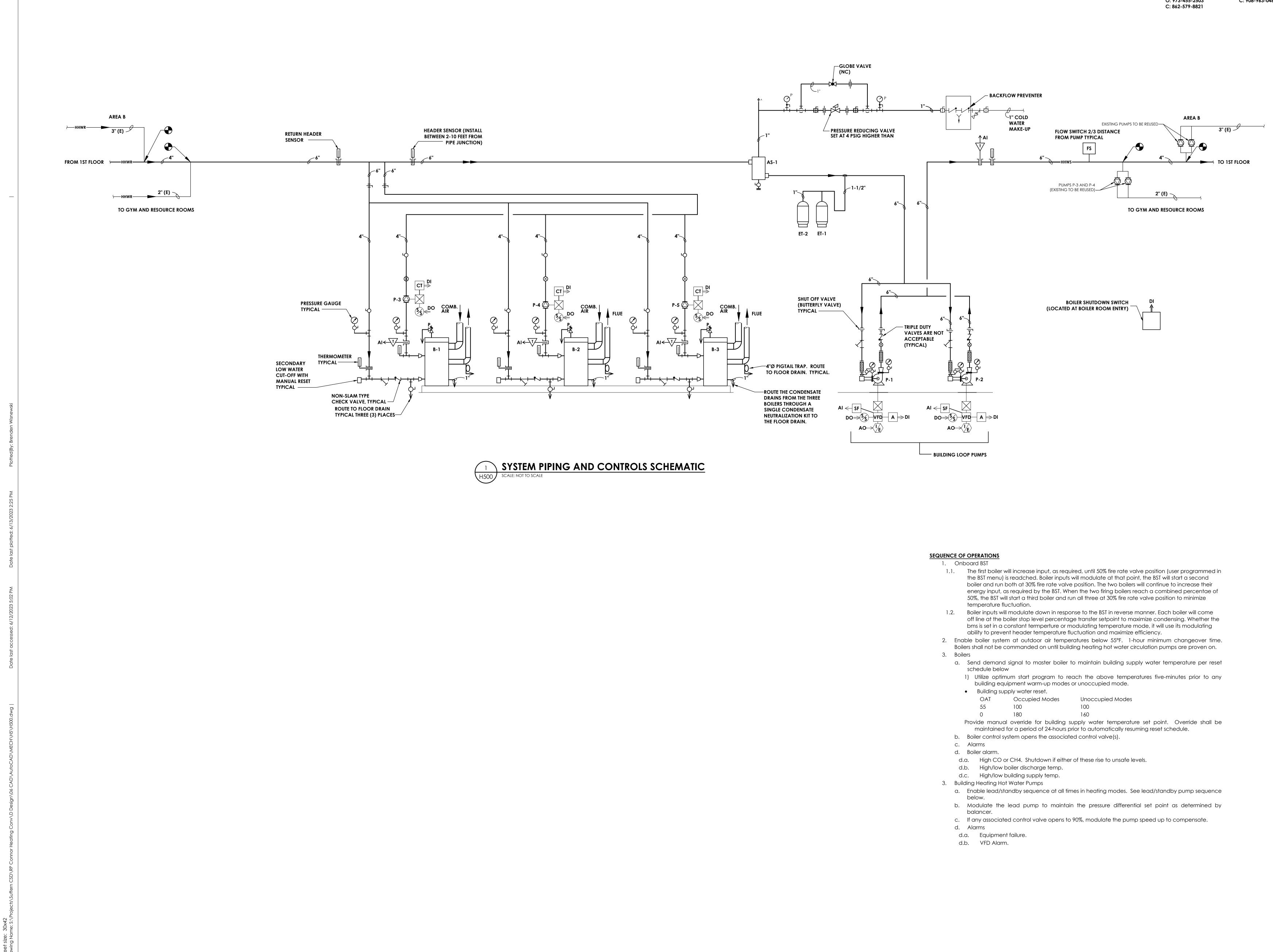
GENERAL NOTES:

- 1. ALL CONTROLS WORK TO BE DONE BY DISTRICT BMS PROVIDER HONEYWELL. CONTACT: BOB GARVEY OR SEAN YATES
- O: 973-455-2503 C: 862-579-8821
- 2. ALL CONDENSERS AND EXHAUST FANS TO BE INSTALLED **DURING PHASE 2.**

KEY NOTES:

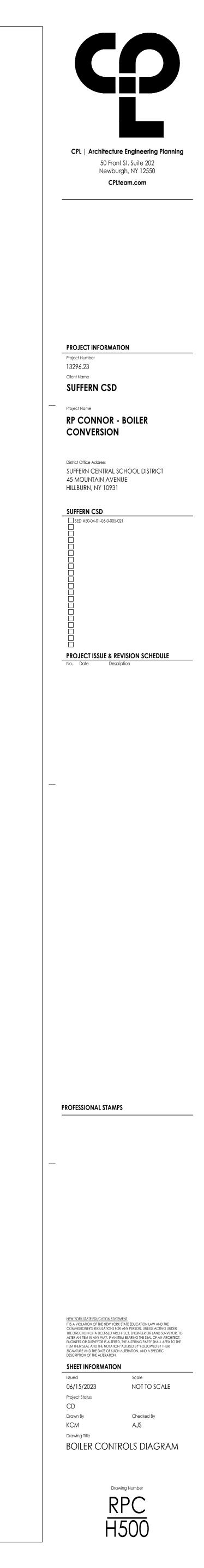
- 2 PROVIDE GOOSENECK AND BIRD SCREEN FOR NEW COMBUSTION AIR VENTS THROUGH ROOF, PATCH ROOF AND SEAL, MAINTAIN ALL EXISTING ROOF WARRANTIES.
- EXISTING ROOF WARRANTIES.

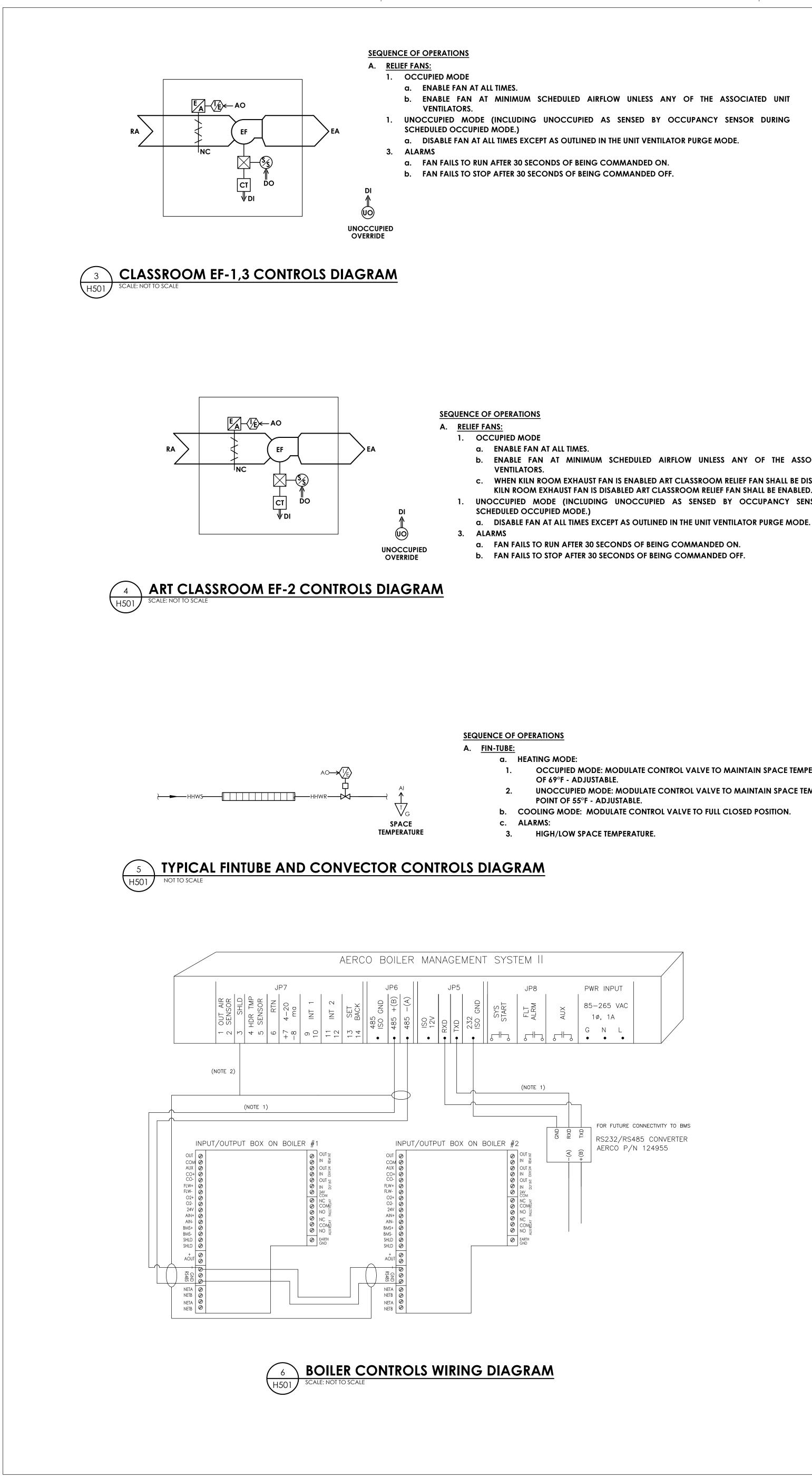


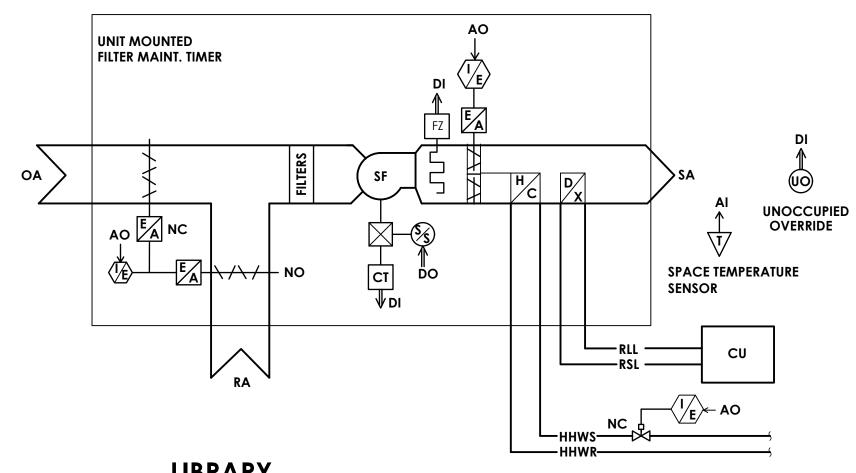


GENERAL NOTES:

1. NEW BOILERS TO USE STANDALONE MANUFACTURERS CONTROLLER. ALL OTHER BOILER SYSTEMS TO CONNECT TO HONEYWELL BMS. CONTACT: BOB GARVEY OR SEAN YATES O: 973-455-2503 C: 908-963-0467



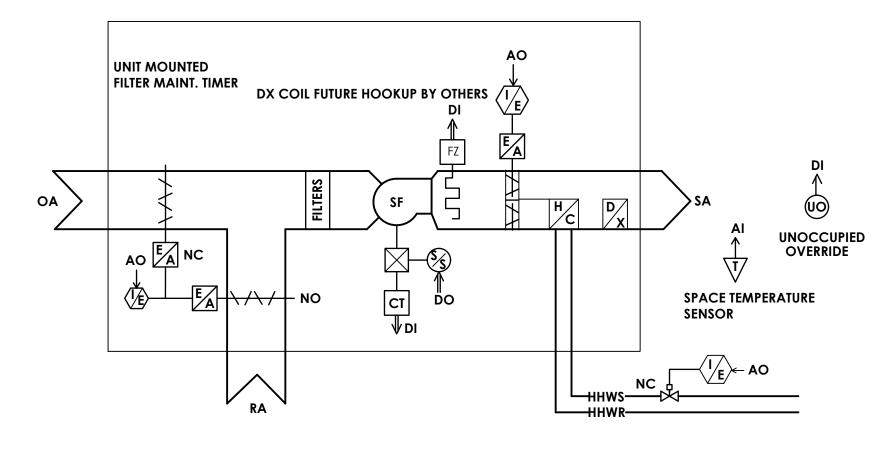






b. ENABLE FAN AT MINIMUM SCHEDULED AIRFLOW UNLESS ANY OF THE ASSOCIATED UNIT

c. WHEN KILN ROOM EXHAUST FAN IS ENABLED ART CLASSROOM RELIEF FAN SHALL BE DISABLED. WHEN KILN ROOM EXHAUST FAN IS DISABLED ART CLASSROOM RELIEF FAN SHALL BE ENABLED. UNOCCUPIED MODE (INCLUDING UNOCCUPIED AS SENSED BY OCCUPANCY SENSOR DURING

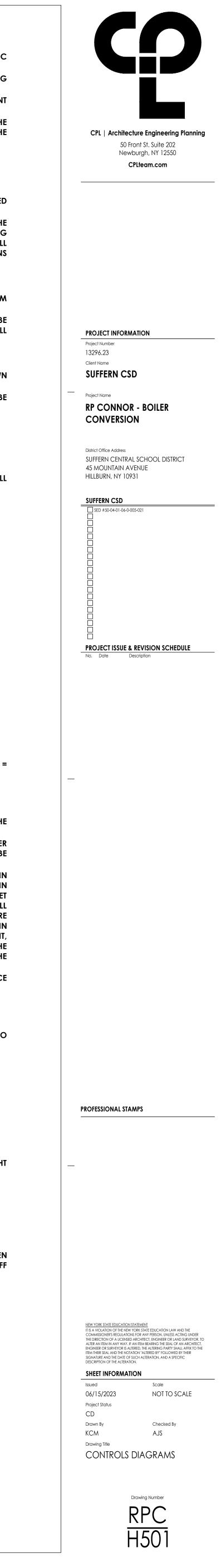


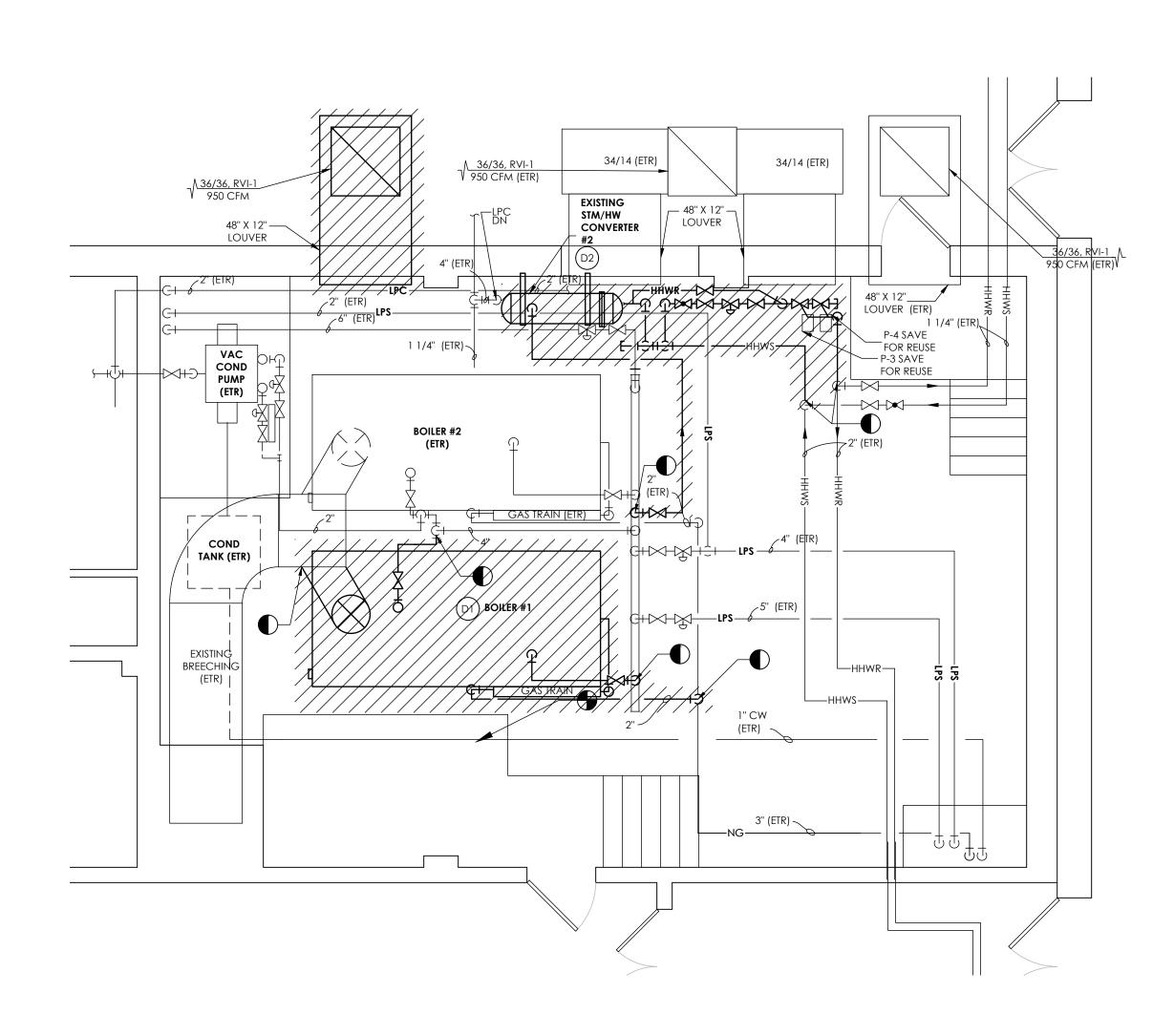
TYP WITH DX COIL BUT NO CONDENSING UNIT UNIT VENTILATOR TYPICAL CONTROLS DIAGRAM H501

OCCUPIED MODE: MODULATE CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE SET POINT UNOCCUPIED MODE: MODULATE CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE SET

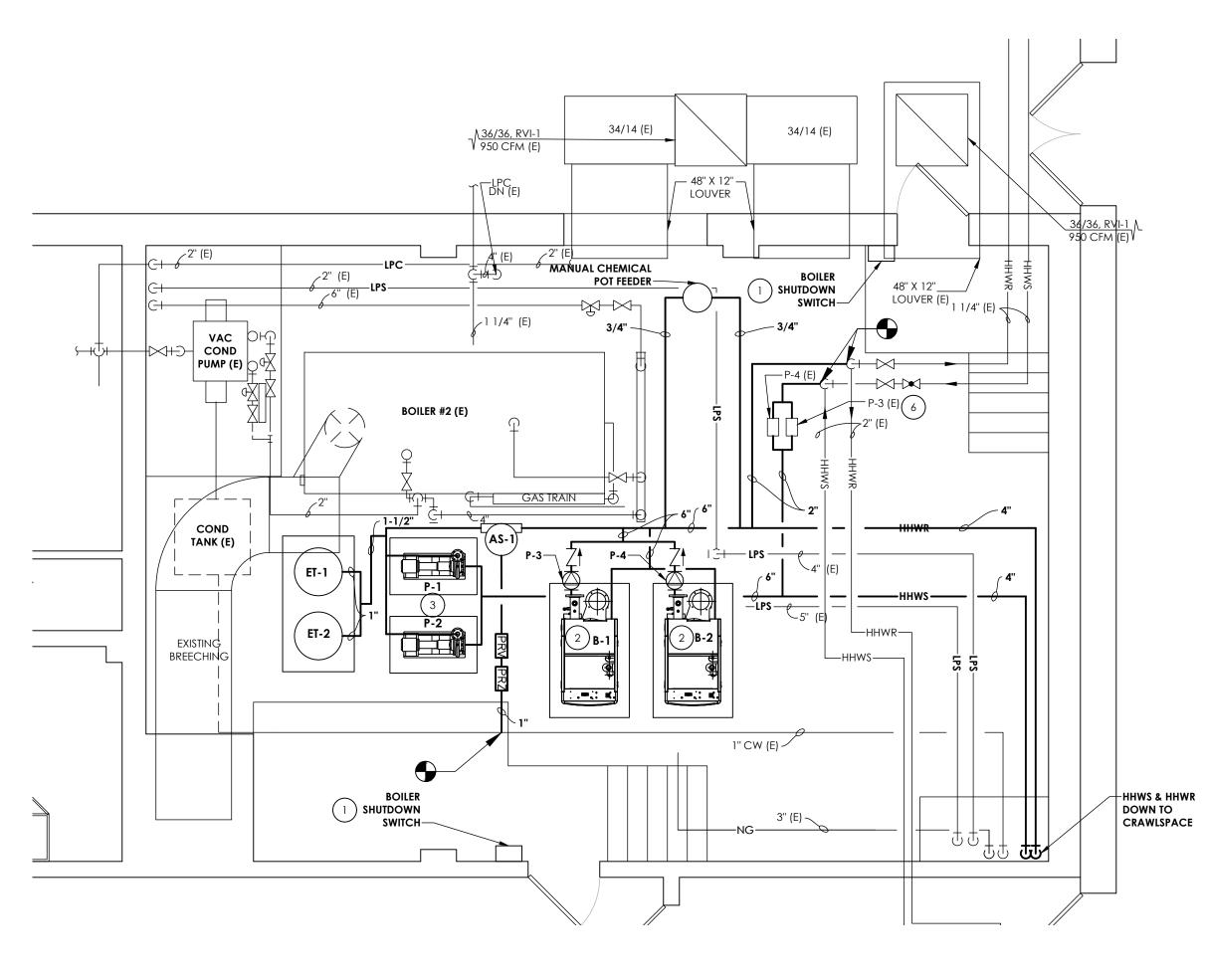
b. COOLING MODE: MODULATE CONTROL VALVE TO FULL CLOSED POSITION.

- A. UNIT VENTILATORS WITH COOLING: UNIT VENTILATOR SHALL OPERATE IN OCCUPIED/UNOCCUPIED MODES AS DETERMINED BY THE DDC BUILDING TIME CLOCK SYSTEM AND BY OCCUPANCY SENSOR.
- 2. ASSIGN EACH UNIT VENTILATOR A STAGGER START NUMBER TO KEEP TOO MANY UNITS FROM STARTING AT THE SAME TIME. IN EFFECT, THIS FLATTENS LOAD PEAKS.
- 3. OCCUPIED HEATING SET-POINT, UNOCCUPIED HEATING SET-POINT, UNOCCUPIED COOLING SET-POINT AND PURGE ENABLE/DISABLE SHALL BE GLOBAL AND FULLY ADJUSTABLE FROM ANY INTERFACE. 4. OUTSIDE AIR IS ADMITTED TO MEET VENTILATION AND COOLING REQUIREMENTS AS OUTLINED IN THE INDIVIDUAL UNIT SEQUENCES. MECHANICAL COOLING, IF EQUIPPED IS UTILIZED AS OUTLINED IN THE INDIVIDUAL UNIT SEQUENCES.
- 5. EACH UNIT VENTILATOR SHALL HAVE A SOFTWARE HOA FOR CONTROL OF THE SUPPLY FAN.
- 6. WIRE THE SUPPLY FAN NORMALLY OPEN AT THE CONTROL RELAY AND FAIL OFF.
- 7. CONTROL CYCLE TO FOLLOW ASHRAE CYCLE II STANDARD..
- 10. PURGE MODE CONTROL:
- a. PURGE MODE (FRESH AIR CHANGEOVER) SHALL ONLY BE PERMITTED DURING AN UNOCCUPIED PERIOD. b. IF THE OUTSIDE AIR IS BETWEEN 45°F AND 60°F AND THE SPACE TEMPERATURE RISES ABOVE 75°F, THE
- SUPPLY FAN SHALL BE COMMANDED ON, THE MIXING DAMPERS SHALL BE FULLY OPEN, THE HEATING COIL SHALL BE FULLY CLOSED AND THE INTEGRAL RELIEF FAN OR ASSOCIATED EXHAUST FAN SHALL BE ENABLED AT THE MAXIMUM AIRFLOW. WHEN THE SPACE TEMPERATURE DROPS TO 70°F, THE FANS SHALL BE COMMANDED OFF AND THE MIXING DAMPERS SHALL RETURN TO THE NORMAL POSITION. 11. WARM-UP MODE CONTROL:
- a. OPTIMUM START DURATION SHALL BE DETERMINED BASED ON OUTSIDE AIR TEMPERATURE.
- b. DURING THE OPTIMUM START PERIOD, THE HEATING SET-POINT WILL BE LINEARLY RAMPED UP FROM
- UNOCCUPIED HEATING SET-POINT TO OCCUPIED HEATING SET-POINT. c. WHEN THE HEATING SET-POINT CROSSES ABOVE THE SPACE TEMPERATURE, THE SUPPLY FAN WILL BE COMMANDED ON, THE MIXING DAMPERS SHALL REMAIN CLOSED AND THE HEATING VALVE WILL MODULATE TO MAINTAIN HEATING SET-POINT.
- 12. COOL-DOWN MODE CONTROL: a. OPTIMUM START DURATION SHALL BE DETERMINED BASED ON OUTSIDE AIR TEMPERATURE.
- b. DURING THE OPTIMUM START PERIOD, THE COOLING SET-POINT WILL BE LINEARLY RAMPED DOWN FROM UNOCCUPIED COOLING SET-POINT TO OCCUPIED COOLING SET-POINT.
- c. WHEN THE COOLING SET-POINT CROSSES BELOW THE SPACE TEMPERATURE, THE SUPPLY FAN WILL BE COMMANDED ON, THE MIXING DAMPERS SHALL MODULATE TO MAINTAIN COOLING SET-POINT.
- 13. OCCUPIED MODE: a. UNIT VENTILATOR:
 - 1) SUPPLY FAN:
 - a) ENABLE CONTINUOUSLY
 - 2) OUTSIDE AIR DAMPER:
 - a) OPEN TO MAINTAIN OUTSIDE AIR QUANTITY AS SCHEDULED, OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM EXCEPT IN CASE OF EMERGENCY. b) MODULATE OUTSIDE AIR DAMPER BEYOND SCHEDULED MINIMUM POSITION AS FOLLOWS:
 - MAINTAIN VENTILATION COOLING TEMPERATURE SET POINT.
 - 3) HOT WATER COIL CONTROL VALVE: a) LAT SCHEDULE
 - UTILIZE DISCHARGE AIR MINIMUM TEMPERATURE RESET SCHEDULE AS OUTLINED BELOW. 55°F LAT AT 55°F OAT
 - 65°F LAT AT 0°F OAT.
 - UTILIZE DISCHARGE AIR TEMPERATURE PID LOOP TO MAINTAIN SPACE TEMPERATURE SET POINT AND MINIMUM LAT.
 - b) OUTSIDE AIR TEMPERATURE DROPS BELOW 35 DEGREES: MODULATE FULL OPEN. (VALVE SHALL STAY FULL OPEN UNTIL O.A. RISES ABOVE 38 DEGREES).
 - c) OUTSIDE AIR TEMPERATURE ABOVE 38 DEGREES:
 - MODULATE TO MAINTAIN SPACE TEMPERATURE SET POINT. MODULATE TO MAINTAIN 65 DEGREE MINIMUM DISCHARGE AIR TEMPERATURE DURING HEATING MODE.
 - 4) COIL FACE AND BY-PASS DAMPER :
 - a) OUTSIDE AIR TEMPERATURE DROPS BELOW 35 DEGREES:
 - MODULATE TO MAINTAIN SPACE TEMPERATURE SET POINT. MODULATE TO MAINTAIN 65 DEGREE MINIMUM DISCHARGE AIR TEMPERATURE. MODULATE UNTIL O.A. RISES ABOVE 38 DEGREES.
 - b) OUTSIDE AIR TEMPERATURE ABOVE 38 DEGREES:
 - POSITION TO FULL COIL FACE POSITION.
 - 5) RA DAMPER:
 - a) MODULATE WITH OUTSIDE AIR DAMPER TO MAINTAIN THE FOLLOWING BALANCE: RA CFM = SA CFM - OA CFM.
 - 6) COOLING COIL (AS INDICATED ON THE DRAWINGS):
- a) MODULATE VALVE TO MAINTAIN SPACE TEMPERATURE SET POINT. 14. UNOCCUPIED MODE BY OCCUPANCY SENSOR DURING DDC SCHEDULED OCCUPIED PERIOD
- a. DURING THE SCHEDULED OCCUPIED MODE, WHEN THE SPACE IS UNOCCUPIED AS SENSED BY THE ROOM OCCUPANCY SENSOR, THE DAMPER WILL BE CLOSED TO OUTSIDE AIR.
- b. IN HEATING MODE, THE SPACE TEMPERATURE SET-POINT SHALL BE RESET TO 2°F (ADJUSTABLE) LOWER THAN THE OCCUPIED SET-POINT. IN COOLING MODE, THE SPACE TEMPERATURE SET-POINT SHALL BE RESET TO 2°F (ADJUSTABLE) HIGHER THAN THE OCCUPIED SET-POINT.
- c. THE SUPPLY FAN SHALL CYCLE ON AND OFF TO MAINTAIN THE SPACE TEMPERATURE SET-POINT. IN HEATING MODE, THE FINNED-TUBE CONTROL VALVE SHALL CONTINUE TO MODULATE TO MAINTAIN THE SPACE TEMPERATURE SET POINT. IF THE SPACE TEMPERATURE DROPS 1°F BELOW IN THE RESET HEATING SET-POINT, THE SUPPLY FAN SHALL BE COMMANDED ON, THE MIXING DAMPER SHALL REMAIN CLOSED AND THE HEATING VALVE SHALL MODULATE OPEN. WHEN THE SPACE TEMPERATURE RISES 1°F ABOVE THE RESET HEATING SET-POINT, THE SUPPLY FAN SHALL BE COMMANDED OFF. IN COOLING MODE, IF THE SPACE TEMPERATURE RISES 1°F ABOVE IN THE RESET COOLING SET-POINT, THE SUPPLY FAN SHALL BE COMMANDED ON, THE MIXING DAMPER SHALL REMAIN CLOSED AND THE COOLING VALVE SHALL MODULATE OPEN. WHEN THE SPACE TEMPERATURE DROPS 1°F BELOW THE RESET COOLING SET-POINT, THE SUPPLY FAN SHALL BE COMMANDED OFF.
- d. WHEN THE SPACE IS OCCUPIED AS SENSED BY THE ROOM OCCUPANCY SENSOR, THE SEQUENCE SHALL BE INDEXED TO THE OCCUPIED MODE.
- 15. UNOCCUPIED MODE BY DDC SCHEDULE:
- a. UNIT VENTILATORS 1) SUPPLY FAN:
 - START (2°F BELOW HEATING SET POINT) AND STOP (1°F ABOVE HEATING SET POINT) TO MAINTAIN SPACE TEMPERATURE SET POINT.
- 2) OUTSIDE AIR DAMPER:
- FULLY CLOSED.
- 3) HOT WATER COIL CONTROL VALVE
- SAME AS OCCUPIED MODE. 4) COIL FACE AND BY-PASS DAMPER:
- SAME AS OCCUPIED MODE.
- 5) RA DAMPER:
- FULLY OPEN.
- 6) COOLING WATER COIL CONTROL VALVE: MODULATE TO FULL CLOSED POSITION UNLESS NIGHT COOLING IS REQUIRED. WHEN NIGHT COOLING IS REQUIRED, MODULATE VALVE TO MAINTAIN SPACE TEMPERATURE SET POINT.
- 16. ALARMS PROVIDE AN ALARM FOR EACH OF THE FOLLOWING: a. FAN FAILS TO RUN AFTER 30 SECONDS OF BEING COMMANDED ON.
- b. FAN FAILS TO STOP AFTER 30 SECONDS OF BEING COMMANDED OFF.
- c. SOFTWARE SAFETY TRIP.
- d. SOFTWARE SAFETY LOCKOUT (4 SAFETY TRIPS IN 3 HOURS). e. LOW OR HIGH DISCHARGE AIR TEMPERATURES.
- 1) IF THE DISCHARGE AIR TEMPERATURE FALLS BELOW 40°F (ADJUSTABLE) IN HEATING MODE, OPEN THE HEATING HOT WATER CONTROL VALVE, CLOSE THE OUTDOOR AIR DAMPER AND TURN OFF ALL FANS.
- f. LOW OR HIGH SPACE TEMPERATURES.



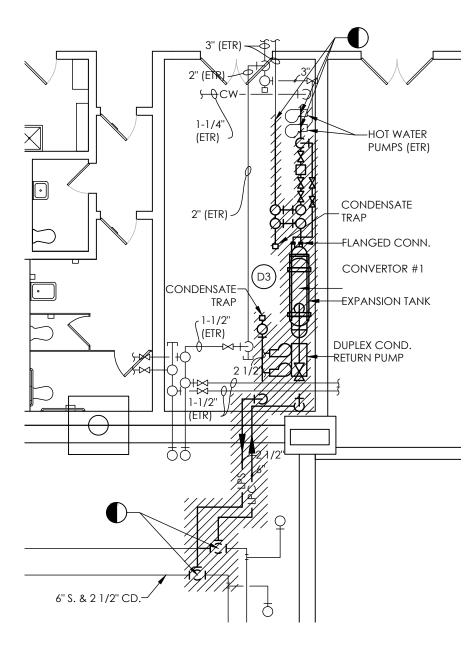


BOILER ROOM DEMOLITION PLAN PHASE 1 H700 SCALE:1/4" = 1'-0"

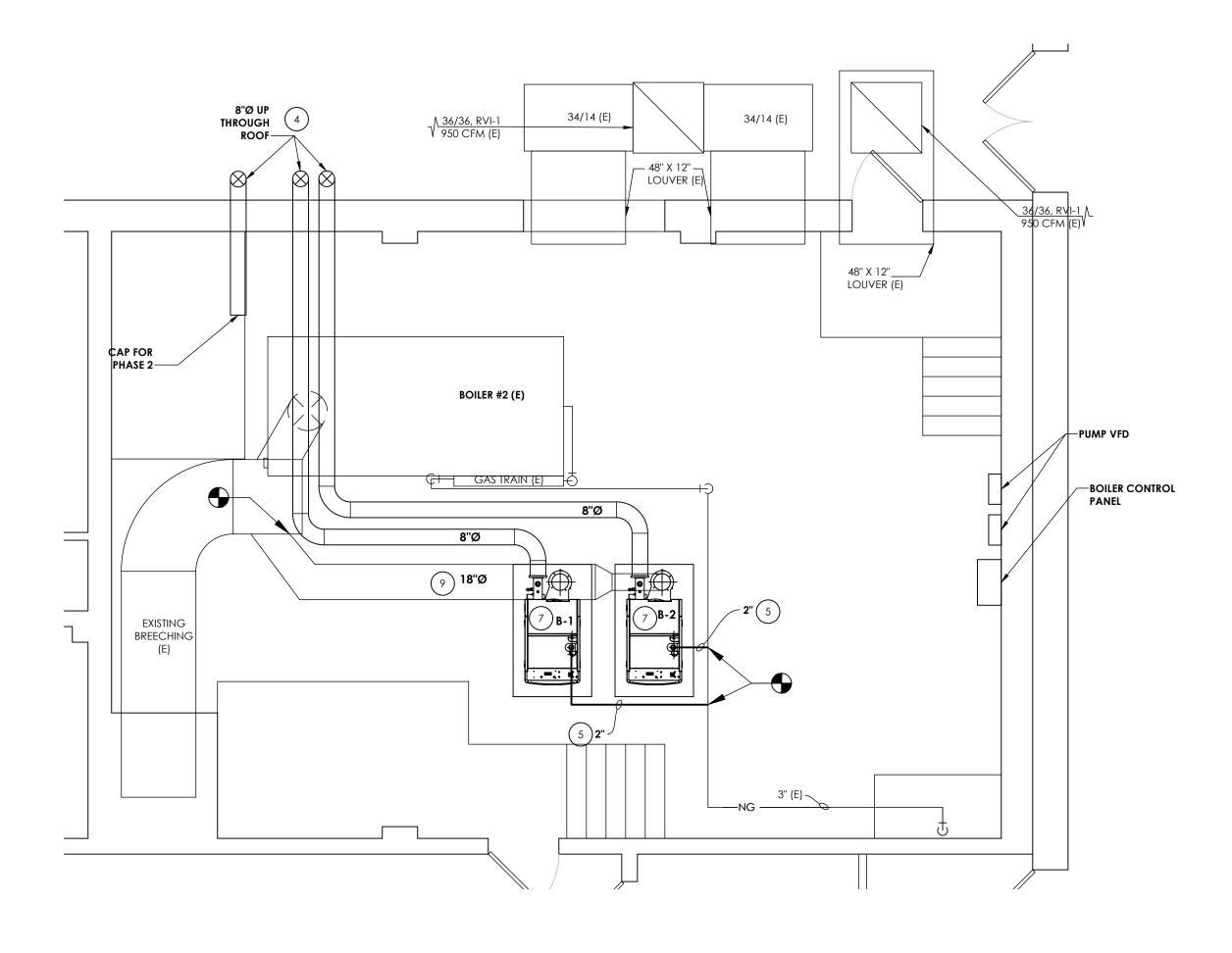




2 BOILER ROOM NEW WORK PIPING PLAN PHASE 1 H700 SCALE:1/4" = 1'-0"

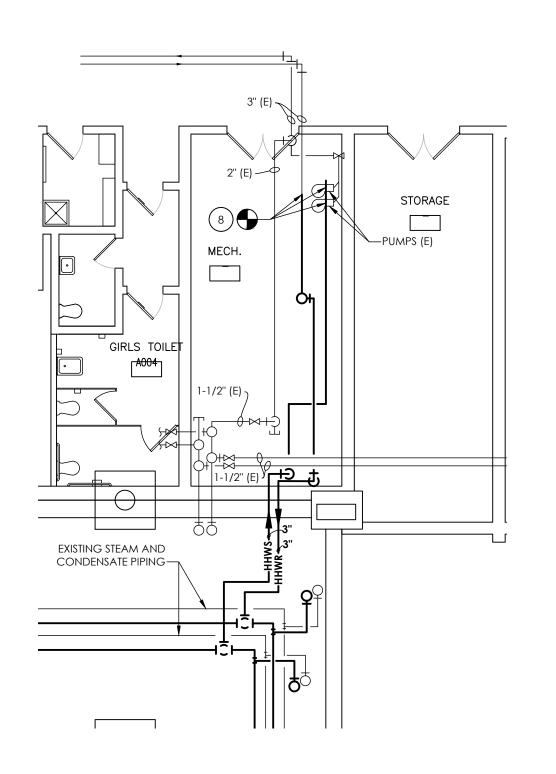








BOILER ROOM NEW WORK GAS, BREECHING, AND COMBUSTION AIR PLAN PHASE 1 5 **BOILER** H700 SCALE:1/4" = 1'-0"





GENERAL NOTES:

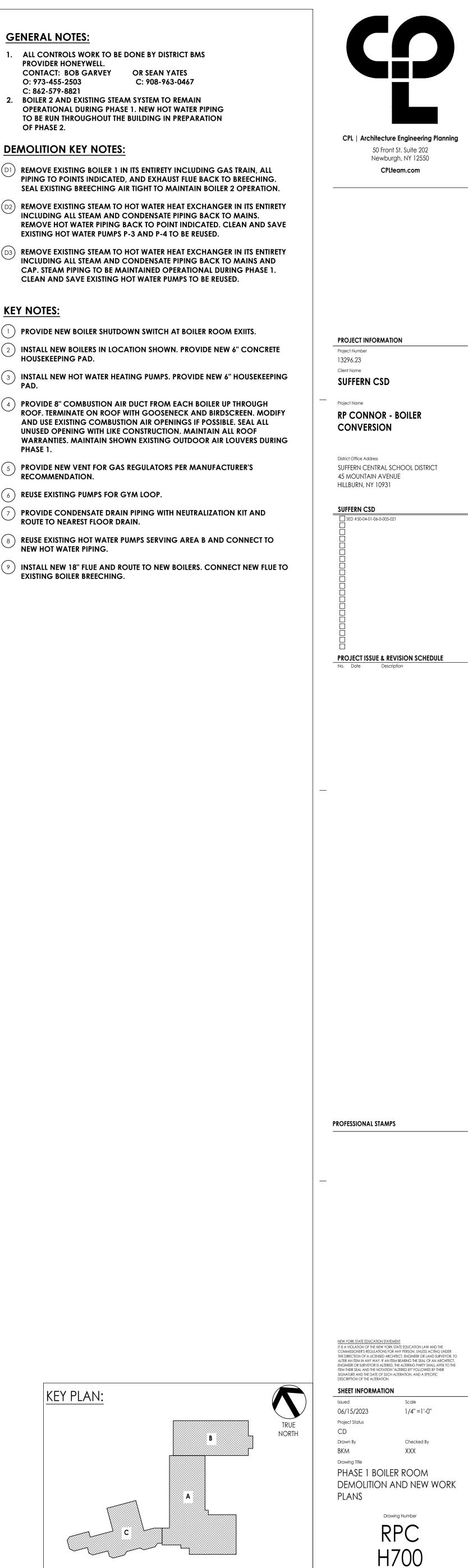
- 1. ALL CONTROLS WORK TO BE DONE BY DISTRICT BMS **PROVIDER HONEYWELL.** CONTACT: BOB GARVEY OR SEAN YATES O: 973-455-2503
- C: 862-579-8821 2. BOILER 2 AND EXISTING STEAM SYSTEM TO REMAIN
- TO BE RUN THROUGHOUT THE BUILDING IN PREPARATION OF PHASE 2.

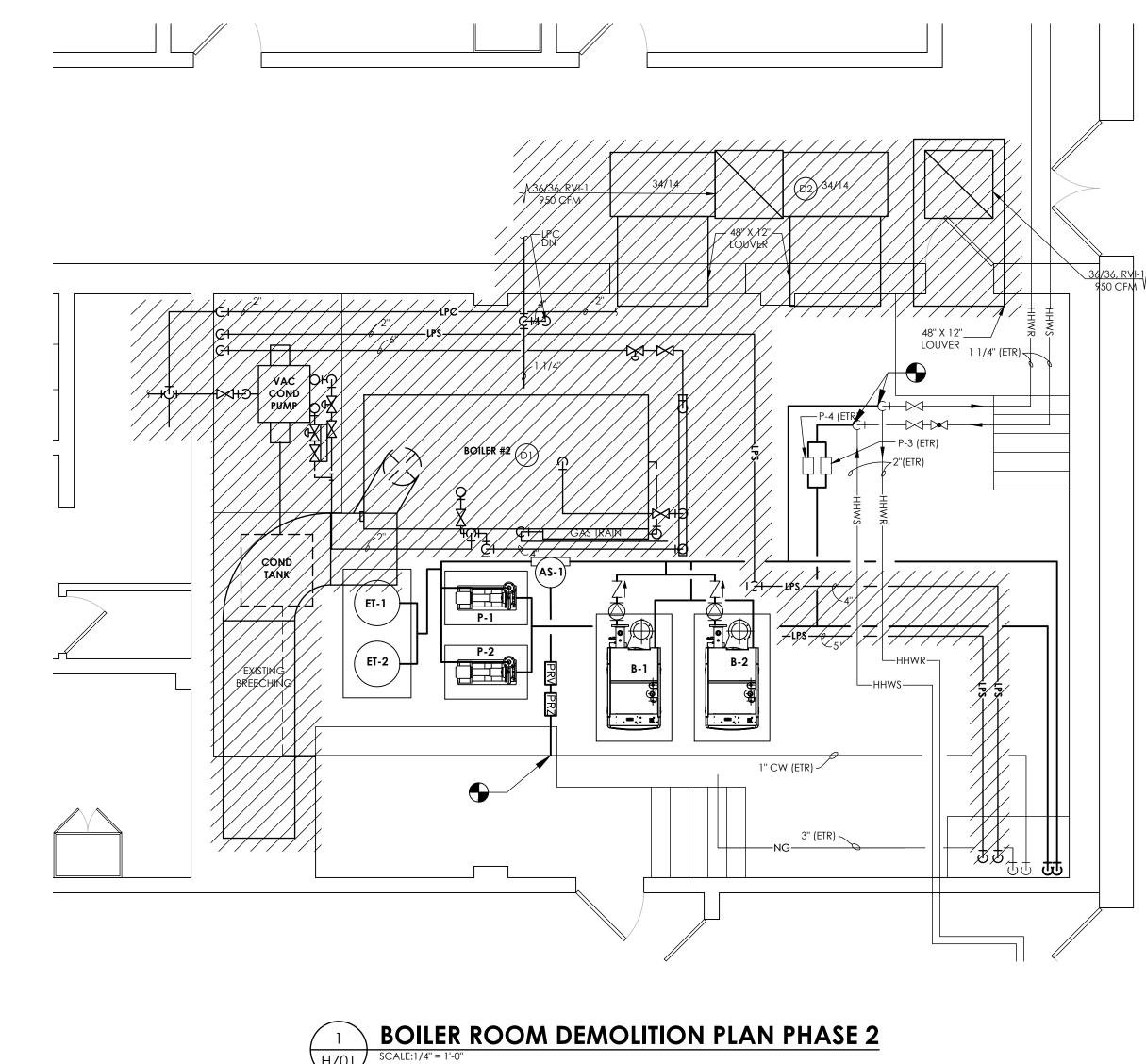
DEMOLITION KEY NOTES:

- DI) REMOVE EXISTING BOILER 1 IN ITS ENTIRETY INCLUDING GAS TRAIN, ALL
- D2) REMOVE EXISTING STEAM TO HOT WATER HEAT EXCHANGER IN ITS ENTIRETY INCLUDING ALL STEAM AND CONDENSATE PIPING BACK TO MAINS.
- (D3) REMOVE EXISTING STEAM TO HOT WATER HEAT EXCHANGER IN ITS ENTIRETY CLEAN AND SAVE EXISTING HOT WATER PUMPS TO BE REUSED.

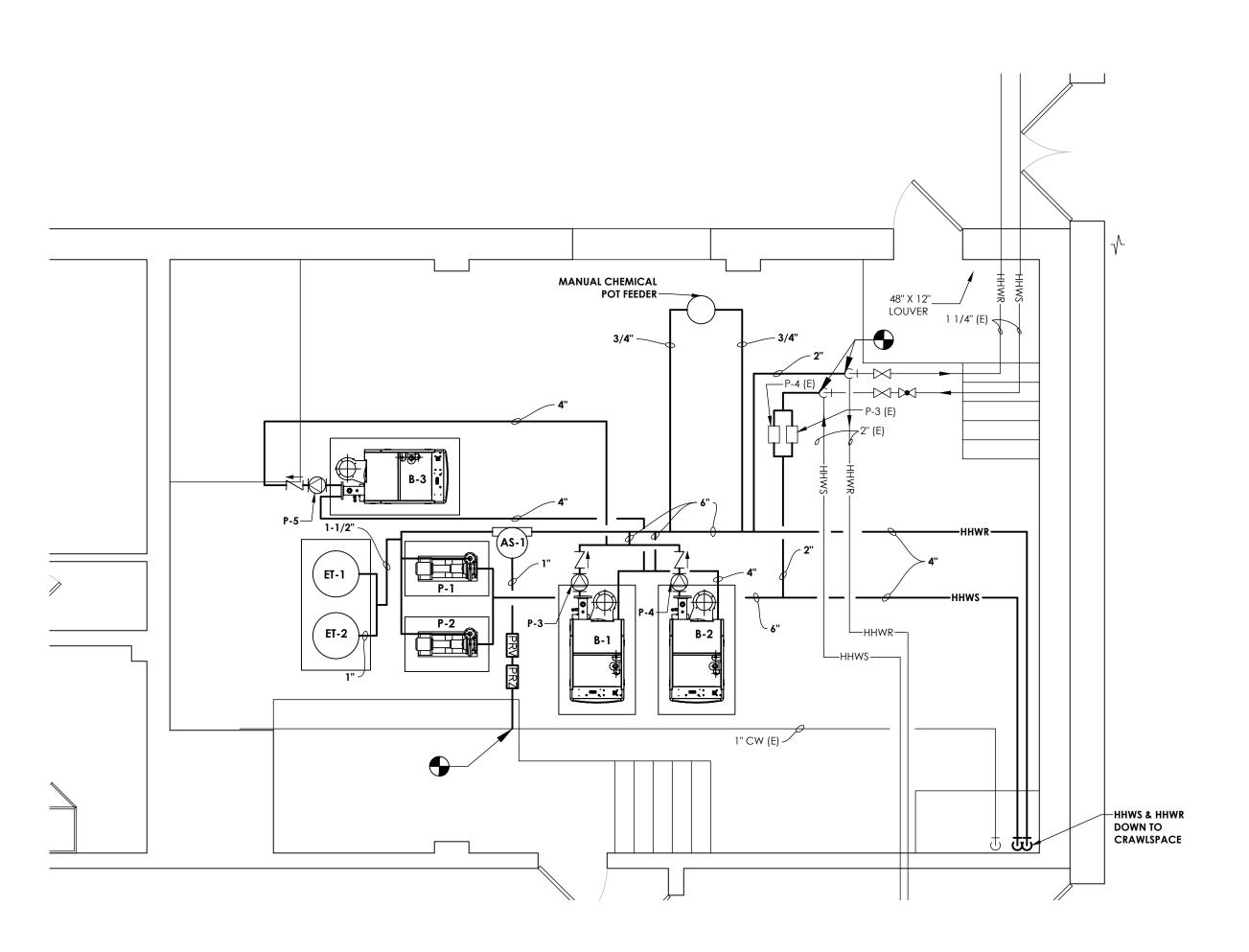
KEY NOTES:

- (1) **PROVIDE NEW BOILER SHUTDOWN SWITCH AT BOILER ROOM EXIITS.**
- HOUSEKEEPING PAD.
- PAD.
- (4) PROVIDE 8" COMBUSTION AIR DUCT FROM EACH BOILER UP THROUGH UNUSED OPENING WITH LIKE CONSTRUCTION. MAINTAIN ALL ROOF PHASE 1.
- (5) PROVIDE NEW VENT FOR GAS REGULATORS PER MANUFACTURER'S **RECOMMENDATION.**
- (6) REUSE EXISTING PUMPS FOR GYM LOOP.
- 7) PROVIDE CONDENSATE DRAIN PIPING WITH NEUTRALIZATION KIT AND ROUTE TO NEAREST FLOOR DRAIN.
- (8) REUSE EXISTING HOT WATER PUMPS SERVING AREA B AND CONNECT TO NEW HOT WATER PIPING.
- EXISTING BOILER BREECHING.

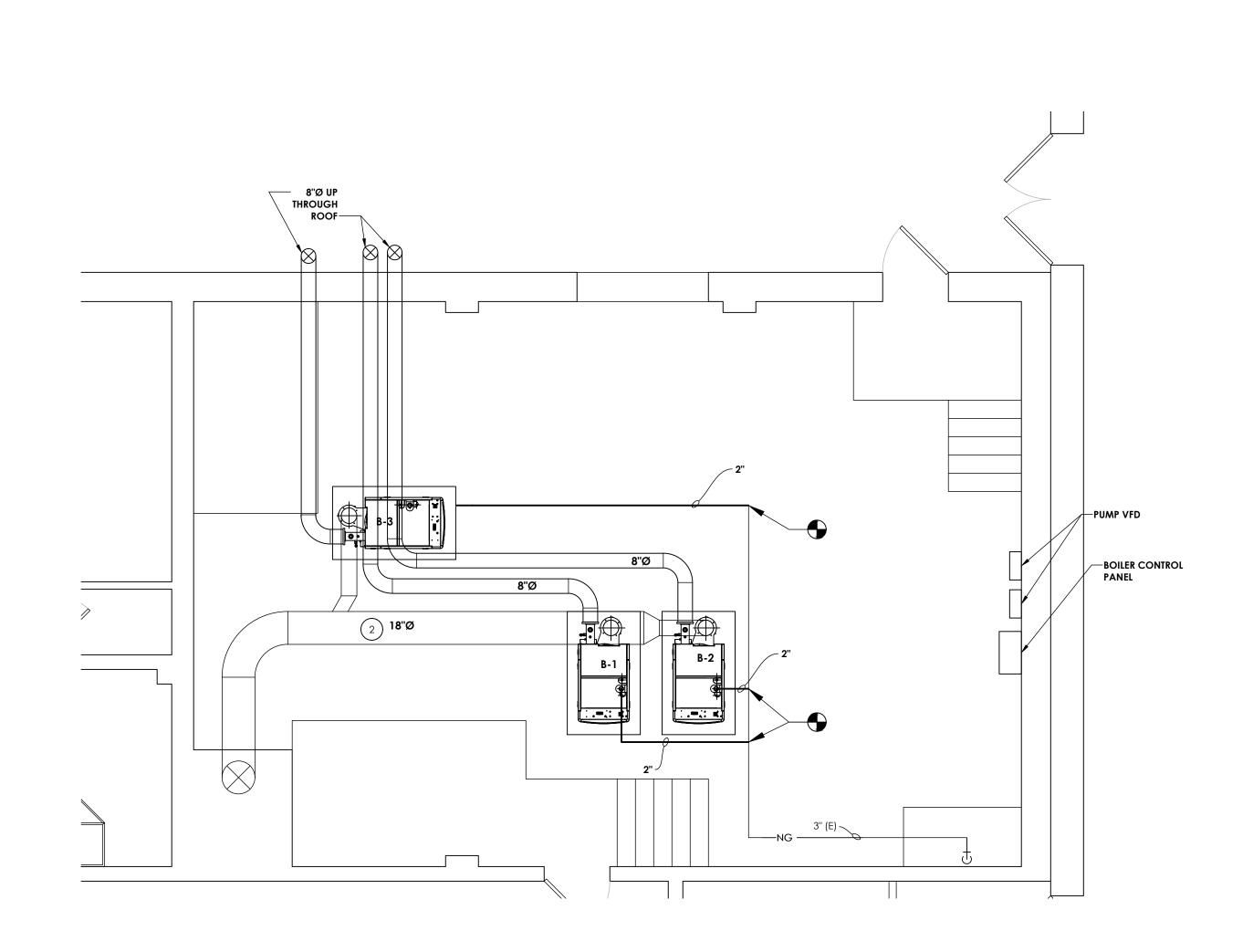




(H701/



2 BOILER ROOM NEW WORK PIPING PLAN PHASE 2 H701 SCALE:1/4" = 1'-0"



H701 SCALE:1/4" = 1'-0"

4 BOILER ROOM ROOF DEMO PLAN H701 SCALE:1/4" = 1'-0"

BOILER ROOM NEW WORK GAS, BREECHING, AND COMBUSTION AIR PLAN PHASE 2

GENERAL NOTES:

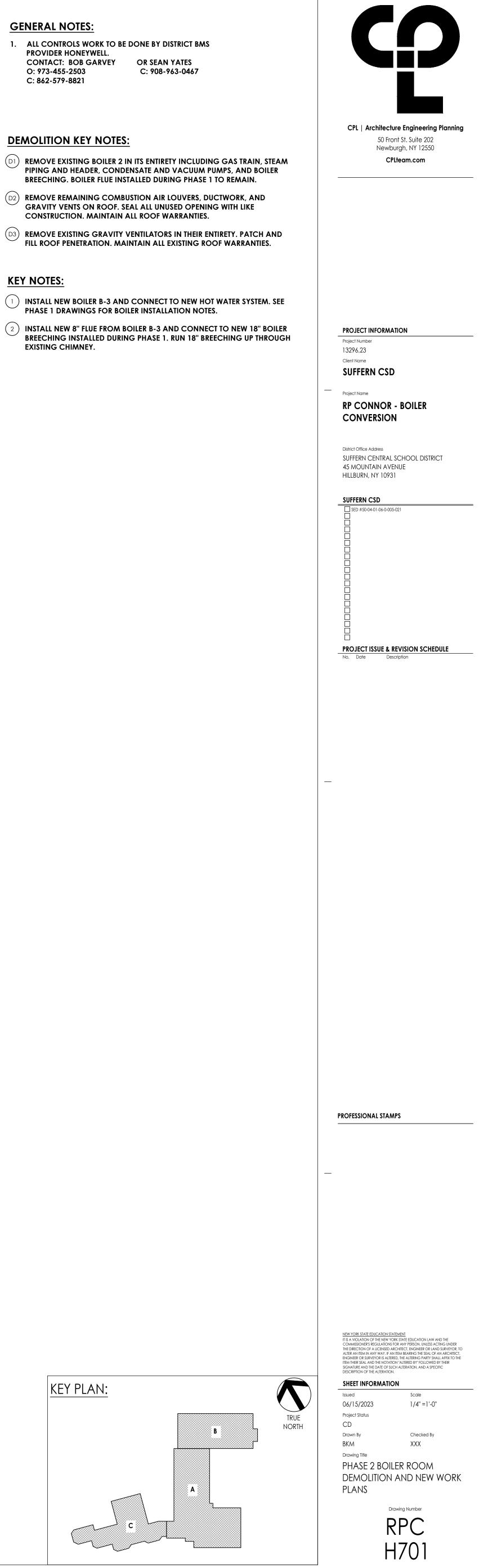
1.	ALL CONTROLS WORK TO BE PROVIDER HONEYWELL.	DONE BY DISTRICT BMS
	CONTACT: BOB GARVEY	OR SEAN YATES
	O: 973-455-2503	C: 908-963-0467
	C: 862-579-8821	

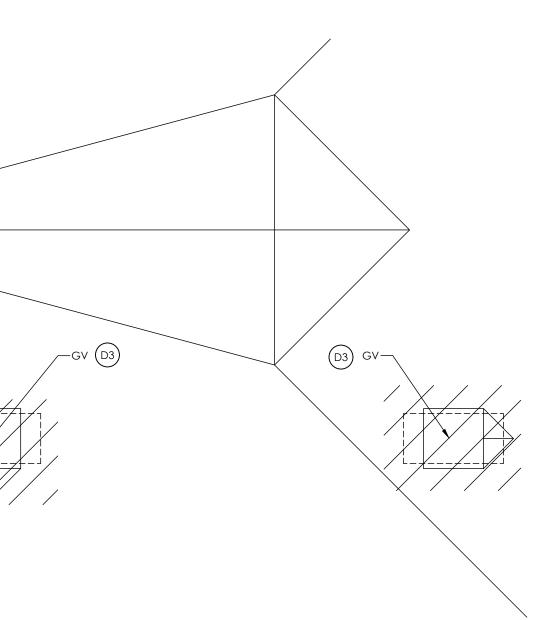
DEMOLITION KEY NOTES:

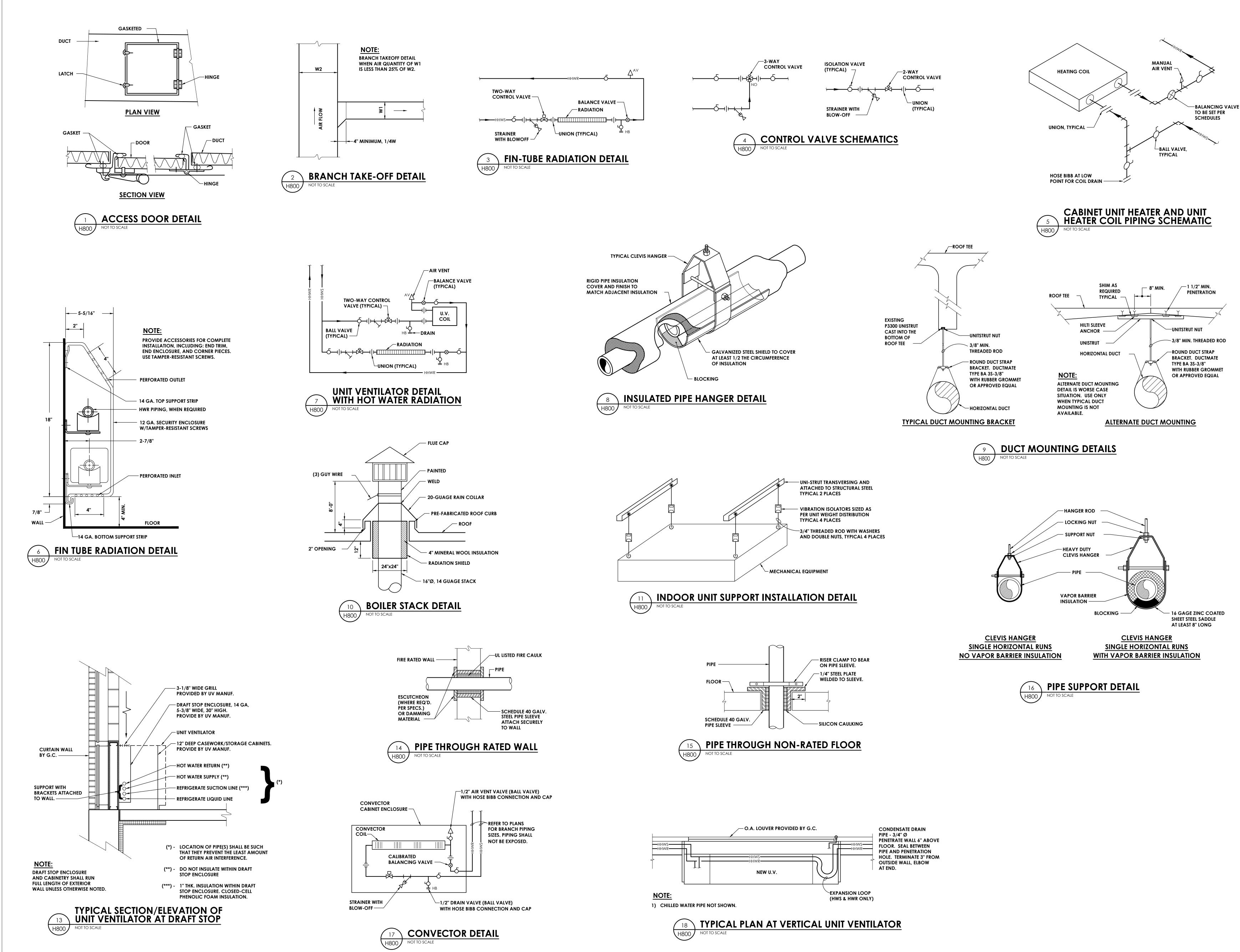
- BREECHING. BOILER FLUE INSTALLED DURING PHASE 1 TO REMAIN.

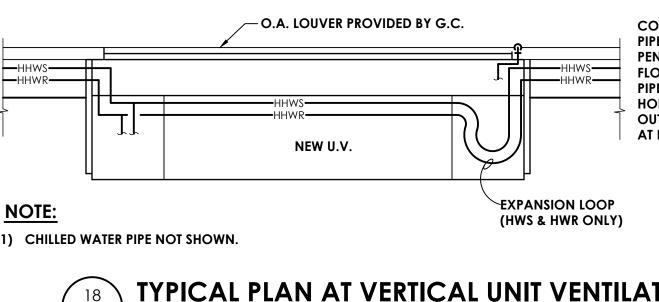
KEY NOTES:

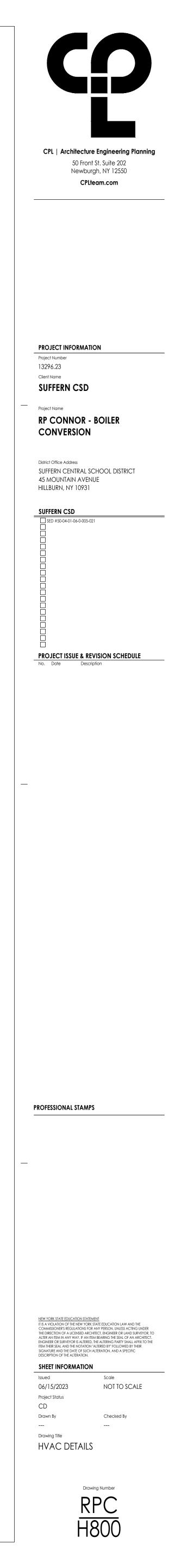
- PHASE 1 DRAWINGS FOR BOILER INSTALLATION NOTES.
- EXISTING CHIMNEY.



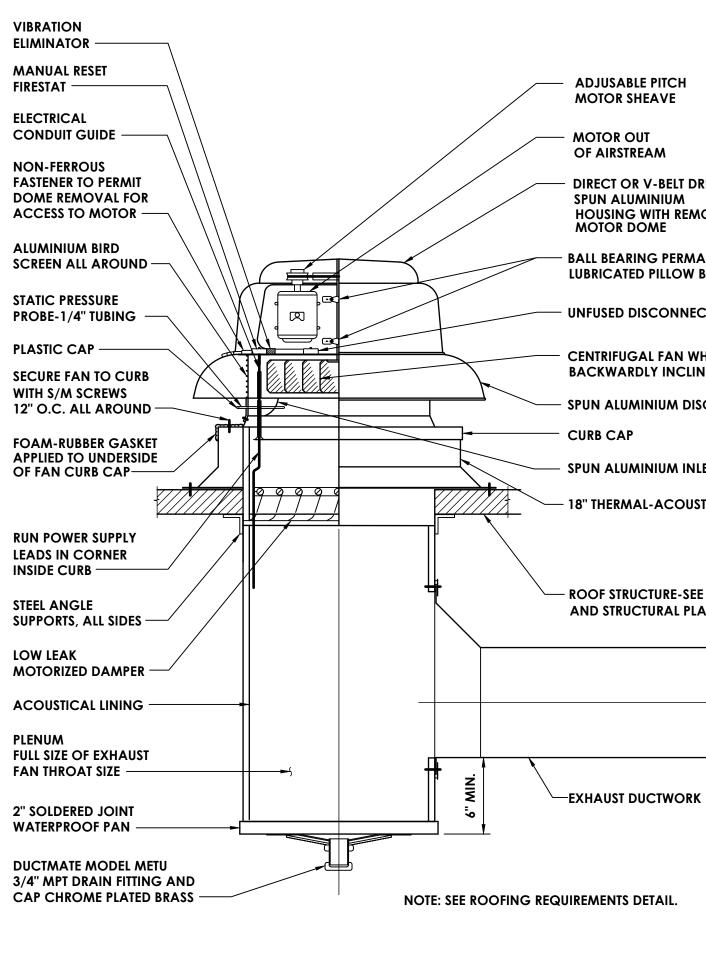


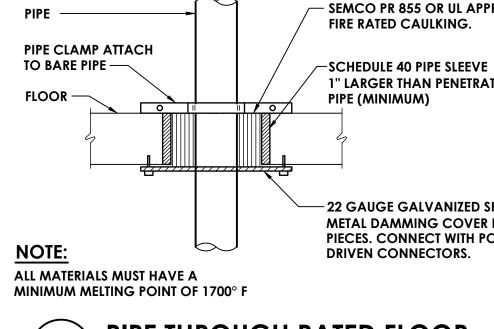






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t size: 30x42	ng Name: S:\Project
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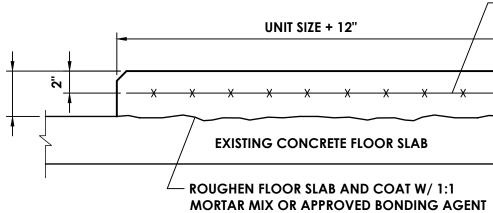




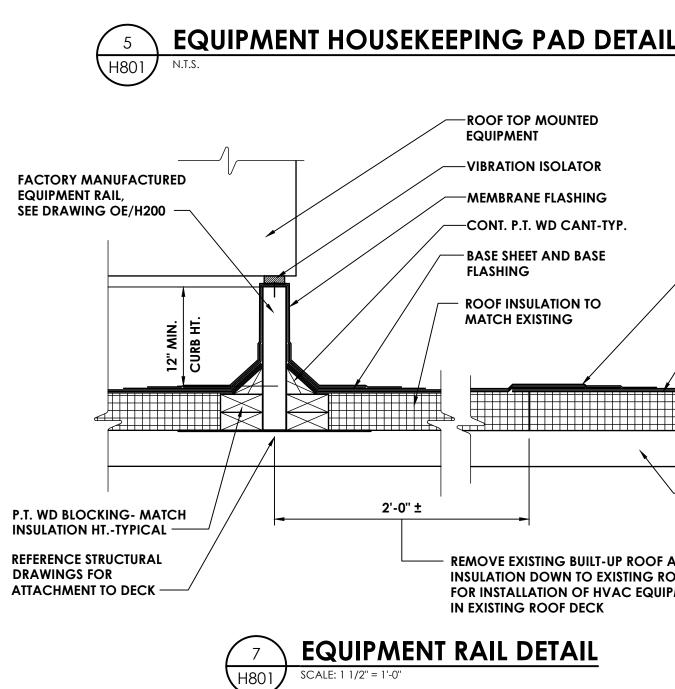
EXHAUST FAN DETAIL

H801 NOT TO SCALE





INTERIOR PAD DETAIL FOR LOCATION ON EXISTING CONCRETE FLOOR NOTE: COORDINATE UNIT SIZE WITH EQUIPMENT SELECTED.



REMOVE EXISTING BUILT-UP ROOF AND ROOF INSULATION DOWN TO EXISTING ROOF DECK FOR INSTALLATION OF HVAC EQUIPMENT RAIL IN EXISTING ROOF DECK

- EXISTING ROOF INSULATION - EXISTING ROOF DECK

- ROOF TIE-IN- PER **ROOFING MANUFACTURER'S** INSTRUCTIONS - EXISTING BUILT-UP ROOF AND GRAVEL

FLASHING - ROOF INSULATION TO

- BASE SHEET AND BASE

-CONT. P.T. WD CANT-TYP.

-VIBRATION ISOLATOR

EQUIPMENT

-ROOF TOP MOUNTED

/ 3/4" CHAMFER

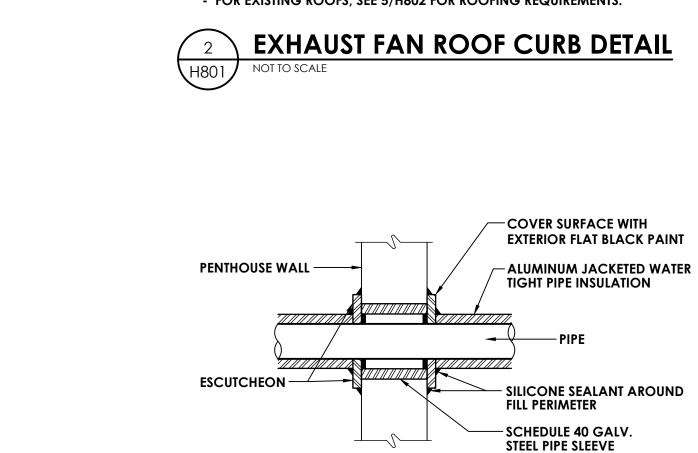
/— 6x6 - W4.0 X W4.0

- 22 GAUGE GALVANIZED SHEET METAL DAMMING COVER IN TWO PIECES. CONNECT WITH POWER

1" LARGER THAN PENETRATING

- SEMCO PR 855 OR UL APPROVED





NOT TO SCALE

BUTTERFLY OR BALL VALVE-

H801



⁴ PIPE THROUGH NON-RATED WALL

ATTACH SECURELY

AS INDICATED IN DRAWING

- BALL VALVE

PLASTIC CURB

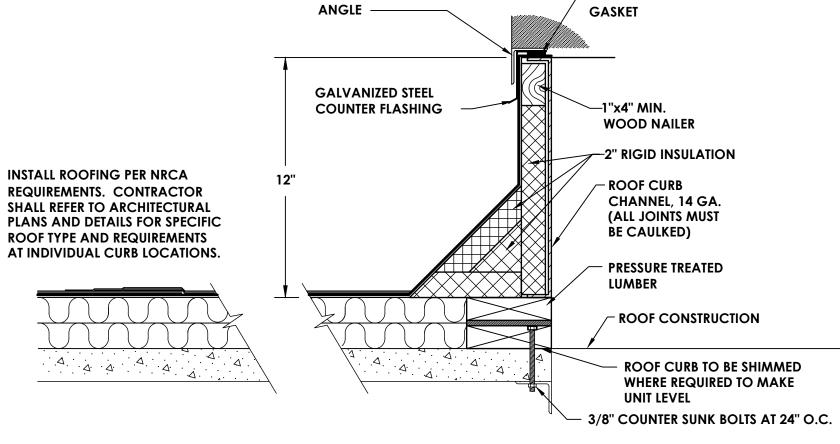
COVER

- ROOF CURB

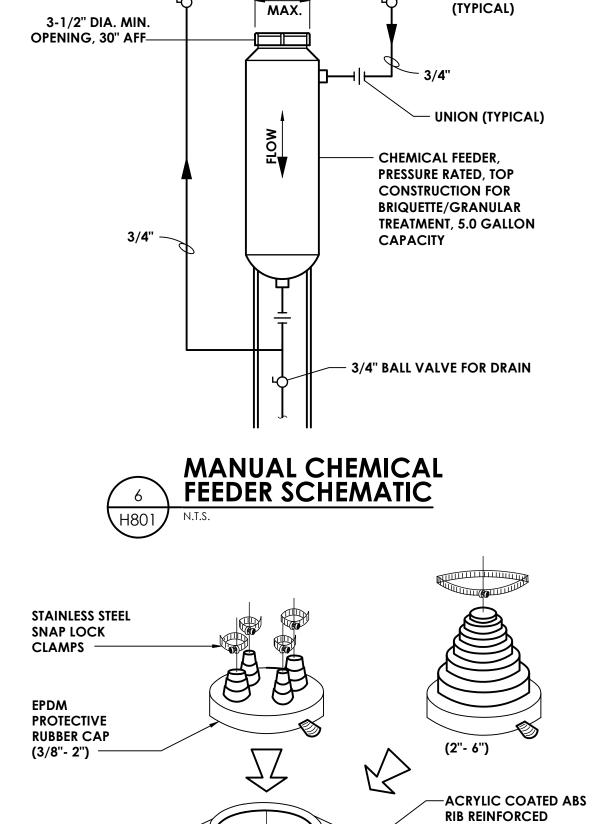
----- FASTEN CURB TO

ROOF DECK

TO WALL



UNIT CURB



B PIPE PORTAL DETAIL H801

WOOD NAILER

FLASHING BY CONSTRUCTION

CONTRACTOR (N.I.C.) -

1-1/2" RIGID FIBERGLASS INSULATION

AND STRUCTURAL PLANS FOR DETAILS

- 18" THERMAL-ACOUSTICAL CURB

CURB CAP - SPUN ALUMINIUM INLET VENTURI

- SPUN ALUMINIUM DISCHARGE APRON

- CENTRIFUGAL FAN WHEEL BACKWARDLY INCLINED

LUBRICATED PILLOW BLOCKS UNFUSED DISCONNECT SWITCH

MOTOR DOME - BALL BEARING PERMANENTLY

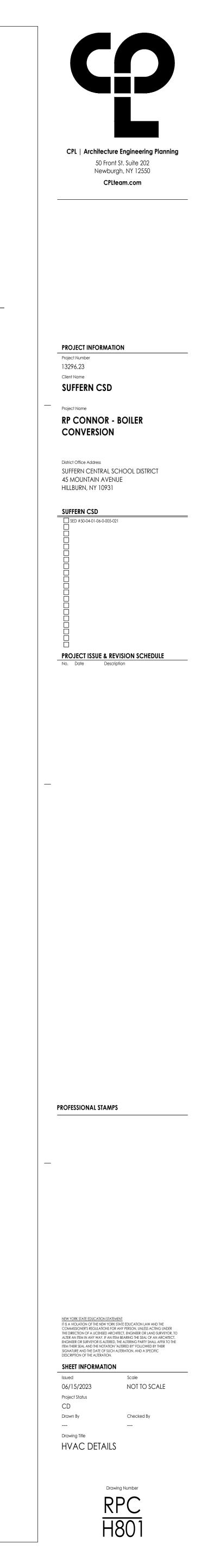
SPUN ALUMINIUM HOUSING WITH REMOVABLE

OF AIRSTREAM **DIRECT OR V-BELT DRIVEN**

- MOTOR OUT

ADJUSABLE PITCH

MOTOR SHEAVE



	LOOSE LINTEL	SCHEDULE							
WALL TYPE	SPAN	LINTEL							
4" MASONRY / VENEER	1'-4" to 4'-6" 4'-7" to 5'-6" 5'-7" to 6'-6" 6'-7" to 7'-6"	L 4 x 3 1/2 x 5/16 (L.L.V.) L 4 x 3 1/2 x 5/16 (L.L.V.) L 5 x 3 1/2 x 5/16 (L.L.V.) L 6 x 3 1/2 x 5/16 (L.L.V.)							
6" BLOCK	1'-4" to 4'-6" 4'-7" to 5'-6" 5'-7" to 6'-6" 6'-7" to 7'-6" 7'-7" to 9'-0"	WT 4 x 9 WT 4 x 10.5 WT 5 x 13 WT 5 x 13 W8 x 10 + 5 1/2 x 5/16 PL.							
8" BLOCK	1'-4" to 4'-6" 4'-7" to 5'-6" 5'-7" to 6'-6" 6'-7" to 7'-6" 7'-7" to 9'-0"	 (2) - L4 x 3 1/2 x 5/16 (L.L.V.) (2) - L4 x 3 1/2 x 5/16 (L.L.V.) (2) - L5 x 3 1/2 x 5/16 (L.L.V.) (2) - L6 x 3 1/2 x 5/16 (L.L.V.) WT 9 x 25 							
4" BRICK & 8" BLOCK OR 12" BLOCK	1'-4" to 4'-6" 4'-7" to 5'-6" 5'-7" to 6'-6" 6'-7" to 7'-6"	 (3) - L4 x 3 1/2 x 5/16 (L.L.V.) (3) - L4 x 3 1/2 x 5/16 (L.L.V.) (3) - L5 x 3 1/2 x 5/16 (L.L.V.) (3) - L6 x 3 1/2 x 5/16 (L.L.V.) 							
INTERIOR N		OPENINGS IN EXTERIOR AND HEDULED UNLESS OTHERWISE							
2. MINIMUM I	BEARING FOR ALL LINTEL	S SHALL BE 8" EACH END.							
	3. BLOCK WALLS SHALL BE GROUTED SOLID 3 COURSES BELOW								

	BEARING POINT FOR A WIDTH OF 16" UNLESS NOTED OTHERWISE ON STRUCTURAL FRAMING PLANS.
4.	SEE ARCH., HVAC, & PLUMBING DRAWINGS FOR SIZE AND LOCATION

OF ALL WALL OPENINGS. 5. CONTRACTOR SHALL PROVIDE AN ADDITIONAL 50 FT. OF ANGLE

5 x 3 1/2 x 5/16 OR THE EQUIVALENT.

6. FOR LINTEL SPANS GRATER THAN 6'-0", BOLT ASSEMBLIES TOGETHER AT 1/3 POINTS.

7. WHERE LINTELS REQUIRE 3 ANGLES, PROVIDE A 3/16" PLATE EQUAL TO WALL WIDTH ACROSS SPAN, ATTACHED TO BOTTOM OF THE LINTEL.

	UNIT HEATER SCHEDULE													
MARK	LOCATION	TYPE	CFM	EWT	LWT	OUTPUT MBH	GPM	PRESS. DROP (FT WC)	EAT	LAT	V/PH/HZ	HP	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
CUH-1	PASSAGE 119	WALL RECESSED	271	180	150	17	1.2	1.7	65	121.6	115/1/60	0.140	IEC FHY02	1
CUH-2	LOBBY 121	WALL RECESSED	261	180	150	21	1.4	3.6	65	137.4	115/1/60	0.140	IEC FHY02	1
CUH-3	CORRIDOR 135	WALL RECESSED	271	180	150	17	1.2	1.7	65	121.6	115/1/60	0.140	IEC FHY02	1
CUH-4	KINDERGARTEN 8	WALL RECESSED	271	180	150	17	1.2	1.7	65	121.6	115/1/60	0.140	IEC FHY02	1
REMARKS:	1. PROVIDE WITH FAC	TORY MOUNTED I	DISCONNECT S	WITCH							-	-		
	2. COLOR TO BE SELECTED BY ARCHITECT BASED ON MANUFACTURER'S STANDARD COLORS.													

		•		RP CONN		E AIR CALC	CS		•			
									-			
			TOTAL						-			
			OCCUPANCY		O.A. PER	O.A. PER			EXHAUST			
Unit	Space	CFM/ft ²	FOR	TOTAL	PERSON	SQ. FT.	Vbz		AIRFLOW RATE	Voz=Vot	ADJUSTED	
TAG	Description	at Maximum	VENTILATION	SQ. FT.	(CFM)	(CFM)	(CFM)	Ez	CFM/FT2	(CFM)	CFM	REMARK
JV-1	001 KINDER		29	1121	10	0.12	425	0.9		472	600	_
JV-2	002 KINDER		28	1090	10	0.12	411	0.9		456	600	
JV-3	003 FIRST GRADE		21	823	10	0.12	309	0.9		343	450	
JV-4	004 FIRST GRADE		21	807	10	0.12	307	0.9		341	450	
JV-5	005 FIRST GRADE		21	807	10	0.12	307	0.9		341	450	
JV-6	006 FIRST GRADE		21	823	10	0.12	309	0.9		343	450	
JV-7	008 KINDER		29	1137	10	0.12	426	0.9		474	600	
JV-8	009 KINDER		29	1126	10	0.12	425	0.9		472	600	
JV-9	012 MUSIC		25	705	10	0.06	292	0.9		325	400	
JV-9	012A PRACTICE		2	49	10	0.06	23	0.9		25	50	
JV-9	012B PRACTICE		2	49	10	0.06	23	0.9		25	50	
JV-10	014 ART		50	1164	10	0.18	710	0.9	0.7	788	450	
JV-11	014 ART		-	-	-	-	-	-	-	-	450	
CV-1	014A KILN		1	50	10	0.18	19	0.9	0.7	21	50	
JV-17	19 CAFETERIA		257	2561	7.5	0.18	2388	0.9		2654	450	1
JV-18	19 CAFETERIA		-	-	-	-	-	-		-	450	1
JV-19	19 CAFETERIA		-	-	-	-	-	-		-	450	1
JV-12	36 LIBRARY		71	2020	10	0.12	952	0.9		1058	370	
JV-13	36 LIBRARY		-	-	-	-	-	-		-	370	
JV-14	36 LIBRARY		-	-	-	-	-	-		-	370	
JV-15	36A RESOURCE		16	613	10	0.12	234	0.9		260	260	
JV-15	36B OFFICE		2	204	5	0.06	22	0.9		25	50	
JV-15	36C COMPUTER OFFICE		3	402	5	0.06	39	0.9		43	50	
JV-16	040 FACULTY		5	816	5	0.06	74	0.9		82	100	

				Alf				ISER		SCHE	EDUI	LE			
								E	LECTRICAL DA	ATA			OPERATING		
MARK	LOCATION	SERVES	NOMINAL TONS	REFRIGERANT TYPE	RATED COOLING CAPACITY (BTU/HR)	SST °F	FAN	COMF	PRESSOR			EER/SEER	WEIGHT	TYPICAL UNIT MFG & MODEL NO.	REMARKS
							NO.	QTY	RLA	VOLT/Ø	MCA		(LBS.)		
CU-1	ROOF	UV-12	4	R-401A	45,500	32	1	1	19.9	208/1	26.2	11.7/14	220	DAIKIN DX14SA0481	1,2
CU-2	ROOF	UV-13	4	R-401A	45,500	32	1	1	19.9	208/1	26.2	11.7/14	220	DAIKIN DX14SA0481	1,2
CU-3	ROOF	UV-14	4	R-401A	45,500	32	1	1	19.9	208/1	26.2	11.7/14	220	DAIKIN DX14SA0481	1,2
CU-4	ROOF	UV-15	4	R-401A	45,500	32	1	1	19.9	208/1	26.2	11.7/14	220	DAIKIN DX14SA0481	1,2
REMARKS:	1.ENERGY EFFI	CIENT SCROLL	COMPRESSOR												

|

2. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT

										UNIT V	ENTILATC	OR SCHE	DULE								
	ROOM			0514	ELEC	TRICAL	W	NTER			HW COIL (CAPACITY				COOLING CO	IL CAPACITY		CABINET SIZE (LXHXD) IN	TYPICAL UNIT MFG	REA
MARK	SERVES	OA FAN	UNIT TYPE	CFM	MCA	VOLT/Ø	OA °F	RA °F	EWT °F	LWT °F	EAT °F	LAT °F	мвн	GPM	TONS	EAT °F	LAT °F	мвн		& MODEL NO.	KE/V
UV-1	1	475	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UAVS9H15	1,2,3
UV-2	2	475	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UAVS9H15	1,2,3
UV-3	3	350	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	4.0	81.9	54.2	47.1	98X30X22	DAIKIN UAVS9H15	1,2,3
UV-4	4	350	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UAVS9H15	1,2,3
UV-5	5	350	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UAVS9H15	1,2,3
UV-6	6	350	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UAVS9H15	1,2,3
UV-7	8	475	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UAVS9H15	1,2,3
UV-8	9	475	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UAVS9H15	1,2,3
UV-9	12	500	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	4.0	81.9	54.2	47.1	98X30X22	DAIKIN UAVS9H15	1,2,3
UV-10	14	450	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	4.0	81.9	54.2	47.1	98X30X22	DAIKIN UAVS9H15	1,2,3
UV-11	14	450	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	4.0	81.9	54.2	47.1	98X30X22	DAIKIN UAVS9H15	1,2,3
UV-12	36	370	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	3.5	80.2	54.9	40.4	98X30X22	DAIKIN UAVS9H15	1,2,
UV-13	36	370	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	3.5	80.2	54.9	40.4	98X30X22	DAIKIN UAVS9H15	1,2,
UV-14	36	370	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	3.5	80.2	54.9	40.4	98X30X22	DAIKIN UAVS9H15	1,2,
UV-15	36A	310	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	3.5	80.2	54.9	40.4	98X30X22	DAIKIN UAVS9H15	1,2,
UV-16	40	100	HORIZONTAL	1500	6.3	115/1	2	72	180	143.8	60.0	103.8	54.3	3.0	3.0	76.4	54.9	30.5	98X30X22	DAIKIN UAVS9H15	1,2,3
UV-17	19	450	HORIZONTAL	1500	6.3	115/1	2	72	180	111.3	37.0	99	103.1	3.0	-	-	-	-	98X30X22	DAIKIN UAVS9H15	1,
UV-18	19	450	HORIZONTAL	1500	6.3	115/1	2	72	180	111.3	37.0	99	103.1	3.0	-	-	-	-	98X30X22	DAIKIN UAVS9H15	1,
UV-19	19	450	HORIZONTAL	1500	6.3	115/1	2	72	180	111.3	37.0	99	103.1	3.0	-	-	-	-	98X30X22	DAIKIN UAVS9H15	1,
REMARKS:	1. FACTORY N	MOUNTED AND	WIRED DISCONNECT.	•		•	•	•	•	•	•	•	•	-	•	•	•		-	•	·

1. FACTORY MOUNTED AND WIRED DISCONNECT.

2. CONDENSATE PUMP, DRAIN PAN ALARM. 3. PROVIDE DX COIL FOR FUTURE CONNECTION BY OTHERS.

4. FLOOR MOUNTED.

5. COLOR TO BE SELECTED BY ARCHITECT BASED ON MANUFACTURER'S STANDARD COLORS.

6. PROVIDE FACE AND BYPASS DAMPER.

7. ALTERNATE MC-01. REPLACE EXISTING UV LOUVER WITH NEW 72" X 10-3/8" LOUVER.

8. PROVIDE NEW LOUVER 72" X 10-3/8".

'
=/
2

	REGI	STERS, (GRILLES	6, AND E	DIFFUSERS				AIR SEI	PARAT	OR SCH	HEDULE		
MARK	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	REMARKS	MARK	LOCATION	SERVED	GPM	DIA.	LNG.	STRAINER	TYPICAL UNI
R1	RETURN/EA	STEEL	LAY-IN	WHITE	PRICE 500	1					(IN)	(IN)	SQ. IN. FA	& MODEL
REMARKS:	1.PROVIDE WITH 24	1 1"X24" CEILING MC	DULE FRAME LA	Y IN STYLE.			AS-1	BOILER ROOM	HOT WATER SYSTEM	225	16	31.44	140	BELL AND GOSS
							REMARKS:							

FAN COIL UNIT SCHEDULE ELECTRICAL DATA HEATING TYPICAL UNIT MFG TYPE LOCATION MAX CFM & MODEL NO. EWT (°F) WATER ∆T GPM WPD (FT WC) WATTS VOLTS PHASE MBH VERTICAL CABINET KILN ROOM 14A 171.6 115 IEC FXY08 710 51.262 180 30 3.5 3.2 FACTORY MOUNTED AND WIRED DISCONNECT. COLOR TO BE SELECTED BY ARCHITECT BASED ON MANUFACTURER'S STANDARD COLORS.

					FAN	SCHE	DULE					
MARK	LOCATION	SERVICE	ТҮРЕ	CFM	SP	RPM		ELECTRIC/	AL DATA		TYPICAL UNIT MFG	RE
MARK	LOCATION	SERVICE	ITPE	CFIVI	IN W.G.		HP	VOLTS	PHASE	FLA	& MODEL NO.	
EF-1	ROOF	12,36,36A,40	DOWNBLAST	2020	0.37	694	1/3	115	1	7.2	GREENHECK GB-180	
EF-2	ROOF	14	DOWNBLAST	900	0.21	673	1/4	115	1	3.8	GREENHECK G-140-VG	
EF-3	ROOF	1,2,3,4,5,6	DOWNBLAST	1150	0.58	1162	1/4	115	1	5.8	GREENHECK GB-130	
REMARKS.		INTED AND WIRED DISC										

<u>REMARKS:</u> 1. FACTORY MOUNTED AND WIRED DISCONNECT. 2. PROVIDE BACKDRAFT DAMPER

		INPUT	OUTPUT	GAS	MAX GAS	ELECTRI	CAL DATA	FLUE	THERMAL	OPERATING	TYPICAL UNIT MFG
MARK	FUEL	MBH	MBH	TURNDOWN	PRESSURE	FLA	VOLTS/Ø	SIZE	EFFICIENCY	WT. LBS.	& MODEL NO.
B-1	NATURAL GAS	2,000	1,860	20:1	14" W.C.	16	120/1	8	94.60%	1500	AERCO BMK 2000
B-2	NATURAL GAS	2,000	1,860	20:1	14" W.C.	16	120/1	8	94.60%	1500	AERCO BMK 2000
B-3	NATURAL GAS	2,000	1,860	20:1	14" W.C.	16	120/1	8	94.60%	1500	AERCO BMK 2000

2. PROVIDE WITH AL29-4C STAINLESS STEEL VENTING PER UL1738. 3. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT.

					FI	N TUBE	SCHE	DULE				
MARK	BTU/FT.	GPM	TUBE	FINS /	EWT	LWT	EAT		ENCLOSURE		TYPICAL UNIT MFG	REMAF
WARK	BTO/FT.	Grivi	SIZE (IN.)	FT.	(°F)	(°F)	(°F)	H (IN.)	D (IN.)	STYLE	& MODEL NO.	REIMAR
FT-A	580	0.5	3/4	32	180	150	65	-	-	-	STERLING GSBF	
FT-B	930	0.5	3/4	32	180	150	65	14	5-5/16	SLOPED	STERLING JVB-ARS	
REMARKS:	1. CONTROL VA	LVES ABOVE T	HE CEILING.									

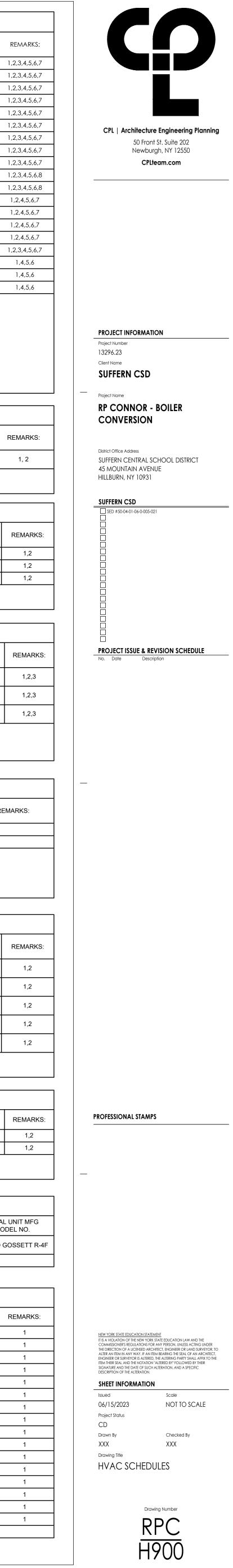
2. COLOR BY ARCHITECT.

3. ELEMENT LENGTH LISTED ON PLANS. CAT - 66289C RETURN 4. COORDINATE HEIGHT WITH ELECTRICAL DEVICES.

				F	PUMP S	SCHEDU	ILE			
MADIC			0.014	HD	E	ELECTRICAL DAT	A	TVDE	TYPICAL UNIT MFG	
MARK	LOCATION	SERVICE	GPM	(FT.)	HP	VOLTS	PH	TYPE	& MODEL NO.	F
P-1	BOILER ROOM	LOOP PUMP	210	85	10	230	3	CENTRIFUGAL BASE MOUNTED	BELL AND GOSSETT 2.5BB SERIES E-1510	
P-2	BOILER ROOM	LOOP PUMP	210	85	10	230	3	CENTRIFUGAL BASE MOUNTED	BELL AND GOSSETT 2.5BB SERIES E-1510	
P-3	BOILER ROOM	BOILER CIRCULATOR PUMP	210	15	2	208	3	INLINE	BELL AND GOSSETT ECOCIRC XL 27-320	
P-4	BOILER ROOM	BOILER CIRCULATOR PUMP	210	15	2	208	3	INLINE	BELL AND GOSSETT ECOCIRC XL 27-320	
P-5	BOILER ROOM	BOILER CIRCULATOR PUMP	210	15	2	208	3	INLINE	BELL AND GOSSETT ECOCIRC XL 27-320	
REMARKS:	1. PROVIDE FA	CTORY MOUNTED DISCON	NECT							
	2. PROVIDE VF	D								

EXPANSION TANK SCHEDULE ACCEPT. GAL. HEIGHT (IN.) TYPICAL UNIT MFG & MODEL NO. DIA (IN.) WEIGHT FULL LOCATION SERVED MARK (LBS.) BOILER ROOM HOT WATER SYSTEM ET-1 132 24 78 1417 BELL AND GOSSETT B-500 BOILER ROOM HOT WATER SYSTEM BELL AND GOSSETT B-500 1,2 ET-2 132 24 78 1417 REMARKS: 1. REMOVABLE BLADDER TYPE 2. CHARGE TO 12PSI.

MARK	SERVICE	MBH	LENGTH	HEIGHT	DEPTH	GPM	TYPICAL UNIT MFG & MODEL NO.
CV-1	1C	2.7	28	24	4	0.5	SIGMA CFRB
CV-2	2B	2.7	28	24	4	0.5	SIGMA CFRB
CV-4	108	5	48	24	4	0.5	SIGMA CFRB
CV-5	109	5	48	24	4	0.5	SIGMA CFRB
CV-6	118	6.7	56	32	4	0.5	SIGMA CFRB
CV-7	118	6.7	56	32	4	0.5	SIGMA CFRB
CV-8	122	9.7	56	32	6	0.65	SIGMA CFRB
CV-9	129	9.8	64	24	6	0.65	SIGMA CFRB
CV-10	129	9.8	64	24	6	0.65	SIGMA CFRB
CV-11	132	9.8	64	24	6	0.65	SIGMA CFRB
CV-12	133	6.7	56	32	4	0.5	SIGMA CFRB
CV-13	133	6.7	56	32	4	0.5	SIGMA CFRB
CV-14	134	7.7	64	32	4	0.51	SIGMA CFRB
CV-15	134	7.7	64	32	4	0.51	SIGMA CFRB
CV-16	136A	2.7	34	28	4	0.5	SIGMA CFRB
CV-17	136A	2.7	34	28	4	0.5	SIGMA CFRB



WIRING LEGEND:

S.	SWITCH
	(NONE) SINGLE POLE TOGGLE SWITCH
	 2 TWO POLE TOGGLE SWITCH 3 THREE WAY TOGGLE SWITCH
	4 FOUR WAY TOGGLE SWITCH WP SINGLE POLE WEATHER PROOF SWITCH
	 K SINGLE POLE KEYED SWITCH K2 TWO POLE KEYED SWITCH
	K3 THREE WAY KEYED SWITCHK4 FOUR WAY KEYED SWITCH
	 P SINGLE POLE SWITCH WITH PILOT LIGHT TM SINGLE POLE SWITCH WITH ONE HOUR TIMER
	T THERMAL SWITCH TP THERMAL SWITCH WITH PILOT LIGHT
	M MOMENTARY CONTACT SWITCH
S _I	ROMAN NUMERAL DESIGNATES NUMBER OF SWITCHES
Sa	LOWER CASE LETTER DESIGNATES SWITCH LEG
Φ	SINGLE RECEPTACLE
<u> </u>	PLUG MOLD
ф.	DUPLEX RECEPTACLE
⊕∗	QUADRAPLEX RECEPTACLE
۲	
	GFI GROUND FAULT CIRCUIT INTERRUPTER WP WEATHER PROOF IN-USE COVER
	SS SURGE SUPPRESSION C COUNTER HEIGHT
	TR TAMPER RESISTANT, UL LISTED IG ISOLATED GROUND
	RT RAIN TITE E EMERGENCY
_	X TYPE X (SEE RECEPTACLE SCHEDULE)
PP	POWER POLE
	RECESSED FLOOR MOUNTED DUPLEX RECEPTACLE
	SURFACE MOUNTED FLOOR RECEPTACLE
$\langle \mathbf{\Phi} \rangle$	CEILING MOUNTED DUPLEX RECEPTACLE
— c —	CONDUIT
W	EXPOSED LOW VOLTAGE WIRING
	HORIZONTAL NON-METALLIC WIREWAY WITH DATA JACK OUTLETS AND ISOLATED GROUND TYPE DUPLEX RECEPTACLES
	VERTICAL NON-METALLIC WIREWAY WITH DATA JACK OUTLETS
	AND ISOLATED GROUND TYPE DUPLEX RECEPTACLES
	WIRE MOLD
J *	JUNCTION BOX
	F FIRE SYSTEM S SECURITY SYSTEM
다	DISCONNECT SWITCH
	DISCONNECT SWITCH - WEATHER PROOF (NEMA 3R)
···· بع	FUSED DISCONNECT SWITCH
	COMBINATION FUSED DISCONNECT/
*	MAGNETIC STARTER SWITCH
	HOA HAND/OFF/AUTO SS START/STOP
M	MANUAL STARTER
VSD-J	COMBINATION VARIABLE SPEED DRIVE AND DISCONNECT
VSD	VARIABLE SPEED DRIVE
II ST/SP	PUSHBUTTON - START, STOP
ODO ST/SP/PL	PUSHBUTTON - START, STOP, WITH PILOT LIGHT
OOD UP/DN/SP	PUSHBUTTON - UP, DOWN, STOP
EF-1	MOTOR WITH DESIGNATOR
TC	TIME CLOCK
(wн)	WATER HEATER
HD	HAND DRYER, HARD WIRED
Ţ	THERMOSTAT
HVP1-6	BRANCH CIRCUIT HOME RUN WITH PANEL NAME AND CIRCUIT NUMBER,
/	QUANTITY OF ARROWHEADS DENOTES QUANTITY OF BRANCH CIRCUITS
	GFI BKR.GFI TYPE BREAKERA.F. BKR.ARC FAULT BREAKER
	BRANCH CIRCUIT WIRING, PROVIDE QUANTITIES OF CONDUCTORS
/	REQUIRED FOR CIRCUITING AND SWITCHING AS INDICATED
	POWER LEG ONLY (NO SWITCH LEG BETWEEN ROOMS)
O	
ت ت	CONDUIT RISER DOWN
Ţ	
	MUSHROOM HEAD PUSH BUTTON (EMERGENCY STOP)
LH 	EMERGENCY BREAK GLASS STATION
● I+	GROUNDING ROD

 <u>∔</u>
45 KVA 480- 208/120V K-13

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PANEL

208-120V

225A

CHASSIS GROUND TRANSFORMER - KVA, PRIMARY AND SECONDARY

EARTH GROUND

VOLTAGE INDICATED. CONNECTIONS, K-RATING, AND SHIELD SPECIFIED

CURRENT TRANSFORMER

POTENTIAL TRANSFORMER

FUSE DISCONNECT/LOADBREAK SWITCH CIRCUIT BREAKER

CIRCUIT BREAKER DRAWOUT MOUNTED (LOW VOLTAGE) AUTOMATIC TRANSFER SWITCH (NORMAL POSITION SHOWN)

————— METER

ENCLOSED CIRCUIT BREAKER LIGHTNING ARRESTER FUSED DISCONNECT SWITCH

PANELBOARD-RATINGS AS SPECIFIED IN SINGLE LINE DIAGRAM AND ON PANELBOARD SCHEDULE

COMMUNICATIONS LEGEND:

▼ *	TELEPHONE (1) CAT3 - TELEPHONE JACK & CABLE
	 (NONE) STANDARD MODULAR JACK FOR TELEPHONE W WALL MOUNTED TELEPHONE MODULAR JACK P PUBLIC TELEPHONE MODULAR JACK C COUNTER HEIGHT MODULAR JACK
	TELEPHONE FLOOR OUTLET (1) CAT3 - TELEPHONE JACK & CABLE
∇	DATA OUTLET WITH FLUSH BOX AND FACEPLATE (1) CAT5e - DATA JACK & CABLE
V	COMPUTER FLOOR OUTLET (1) CAT5e - DATA JACK & CABLE
T	COMBINATION TELEPHONE CABLE AND DATA OUTLETS IN DOUBLE GANG FLUSH MOUNTED BOX WITH FACEPLATE
WT	WIRELESS TRANSMITTER (PROVIDED BY OWNER) CONTRACTOR TO PROVIDE (2) CAT5e DATA JACKS & CABLING
T/D J	BACK BOX FOR OWNER PROVIDED TEL/COM WIRING & DEVICES
I	DATA RACK
\bigcirc	COAX CABLE (TYPE F CONNECTOR)
PA	CEILING MOUNT LCD PROJECTOR
\$	SPEAKER (PUBLIC ADDRESS) (NONE) CEILING MOUNTED W WALL MOUNTED
	SPEAKER (LOCAL SOUND SYSTEM)
\triangleleft	SPEAKER HORN
\bigotimes	MICROPHONE JACK
()	SPEAKER JACK
\heartsuit	VOLUME CONTROL
©	CLOCK
	DOUBLE FACE CLOCK
CS	COMBINATION CLOCK AND SPEAKER
IC	INTERCOM STATION
PA MIC	REMOTE PRE-AMPLIFIER AND PAGING MICROPHONE
CJ	CONSOLE JACK
HL	HOUSE LIGHT CONTROL STATION
WB	WALL BOX AS SPECIFIED

FB FLOOR BOX

NOTE:

SYMBOLS SHOWN ON THIS ELECTRICAL SYMBOLS LIST ARE FOR REFERENCE PURPOSES ONLY. ALL OF THESE SYMBOLS MAY NOT BE USED FOR THIS PROJECT.

FIRE/LIFE SAFETY LEGEND:

FIRE/	LIFE SAFELY LEGEND:
F	FIRE ALARM PULL STATION
FÞ	FIRE ALARM BELL
H۲	FIRE ALARM HORN
	FIRE ALARM HORN AND STROBE COMBINATION
	FIRE ALARM HORN AND STROBE COMBINATION,
S	FIRE ALARM SPEAKER
S C	FIRE ALARM SPEAKER - CEILING MOUNTED
	FIRE ALARM SPEAKER AND STROBE COMBINATION
HŒ(FIRE ALARM STROBE
)Ē	FIRE ALARM STROBE - CEILING MOUNTED
$\langle \mathbf{S} \rangle$	SMOKE DETECTOR
(2) WG	SMOKE DETECTOR WITH GUARD
	CARBON MONOXIDE DETECTOR
	NATURAL GAS SENSOR
	HEAT DETECTOR
$\langle \mathbf{I} \rangle$	COMBINATION SMOKE/HEAT DETECTOR
	HEAT DETECTOR - 190° FIXED TEMPERATURE
	HEAT DETECTOR - EXPLOSION PROOF
BT	BEAM SMOKE DETECTOR TRANSMITTER
BR	BEAM SMOKE DETECTOR RECEIVER
(2) *	DUCT DETECTOR SA INDICATES INSTALLATION IN SUPPLY AIR RA INDICATES INSTALLATION IN RETURN AIR
RTS	REMOTE TEST STATION FOR DUCT DETECTOR
R	FIRE ALARM SHUT DOWN RELAY
DH	FIRE DOOR HOLD OPEN
VS	TAMPER SWITCH
FS	FLOW SWITCH
FSS	FIRE SUPRESSION ANSUL SYSTEM CONNECTION
FR *	SMOKE DAMPER RELAY CONNECTIONSD/FDSMOKE DAMPER AND FIRE DAMPERSDSMOKE DAMPER
	CONTROL MODULE, ADDRESSABLE
•	AREA OF RESCUE CALL STATION
ADA	AREA OF RESCUE MASTER TELEPHONE STATION

SECURITY LEGEND:

KP	SECURITY KEY PAD
Ø	VIDEO CAMERA
VM	CCTV VIDEO MONITOR
	PASSIVE INFRARED MOTION DETECTOR
PR	PROXIMITY CARD READER
С	CALL SWITCH
DC	DOOR CONTACT
WC	WINDOW CONTACT
ES	ELECTRIC STRIKE DOOR RELEASE
ML	MAGNETIC DOOR RELEASE

LIGHT FIXTURE LEGEND:

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OS

OSW

VS

PC

LIGHTING FIXTURE (SEE LIGHTING FIXTURE SCHEDULE FOR LETTER DESIGNATION AND DESCRIPTION OF FIXTURES)

- EMERGENCY AND/OR NIGHT LIGHT LIGHTING FIXTURE
- EXIT LIGHTING FIXTURE UNIVERSAL MOUNT, SINGLE/DOUBLE FACE
- (WHERE USED, ARROW INDICATES CHEVRON DIRECTION)
- BATTERY POWERED EMERGENCY LIGHT
- EMERGENCY LIGHT REMOTE HEAD Ā
- TRACK LIGHTING БО-П
 - POLE MOUNTED LIGHTING (QUANTITY AND ORIENTATION OF HEADS AS SHOWN)
 - OCCUPANCY SENSOR CEILING MOUNTED
 - OCCUPANCY SENSOR WALL MOUNTED
 - VACANCY SENSOR CEILING MOUNTED
- LC LIGHTING CONTACTOR
 - PHOTOCELL
- SWITCH
 - LV LOW VOLTAGE 1-4 BUTTON STATION (CONNECT TO LIGHTING CONTROL STATION)
 - O OCCUPANCY SENSOR SWITCH
 - D DIMMER (INCANDESCENT) D3 THREE WAY DIMMER (INCANDESCENT)
 - DF DIMMER (FLUORESCENT) DO COMBINATION DIMMER/VACANCY SENSOR
 - DV COMBINATION DIMMER/VACANCY SENSOR

PANEL LEGEND:

- EXISTING ELECTRICAL PANEL
- NEW ELECTRICAL PANEL
 - MDP MAIN DISTRIBUTION PANEL LVP LOW VOLTAGE PANEL
 - HVP HIGH VOLTAGE PANEL
 - LP LIGHTING CONTROL PANEL IG ISOLATED GROUND PANEL
 - MSB MAIN SWITCH BOARD MCC MOTOR CONTROL CENTER
 - TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
- ATS AUTOMATIC TRANSFER SWITCH
- ELECTRICAL SYSTEMS PANEL \bowtie XXX SACP SECURITY ALARM CONTROL PANEL FACP FIRE ALARM CONTROL PANEL PA PUBLIC ADDRESS CONTROL PANEL FAAP FIRE ALARM ANNUNCIATOR PANEL

ELECTRICAL PANELBOARD LABELING PLACARD

- LINE 1 PANELBOARD NAME: PP1 (EXAMPLE)
- LINE 2 VOLTAGE AND PHASE:480/277V-3PH-4W (EXAMPLE) LINE 3 - WHERE PANELBOARD IS FED FROM: FF MSB BREAKER #14 (EXAMPLE)

GENERAL ELECTRICAL NOTES:

- 1) HATCHED AREAS ////// DESIGNATE EXISTING EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.
- 2) ALL WORK TO BE DONE IN ACCORDANCE WITH THE LASTEST ADAPTAION OF THE NATIONAL ELECTRIC CODE (NFPA 70).
- 3) CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND COORDINATE WITH EXISTING EQUIPMENT PRIOR TO BIDDING. BUILDING:
- 4) INSTALLATION HEIGHT TO CENTER OF EQUIPMENT ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED TO BE:
- RECEPTACLE = 18" SWITCH = 44"
- MODULAR JACK FOR WALL MOUNTED TELEPHONE = 52"
- MODULAR TELEPHONE JACK = 18" AUDIO/VISUAL FIRE ALARM INDICATORS = 88"
- FIRE ALARM PULL STATIONS = 48''TELEVISION OUTLET = 7'-0''

- COMPUTER OUTLET = 18"
- CALL SWITCH = 44'' REMOTE TEST STATION FOR DUCT DETECTOR = 52" C = ABOVE COUNTER BACKSPLASH, COORDINATE WITH ARCHITECTURAL ELEVATIONS AND MILLWORK.
- 5) INSTALL DATA JACKS FOR CEILING MOUNTED WIRELESS TRANSMITTERS ABOVE CEILING IN ALL AREAS WHERE
- THERE IS AN ACCESSIBLE CEILING. PROVIDE FLUSH MOUNTED JACKS IN ALL HARD CEILINGS.
- 6) ALL CONDUIT AND WIRING TO BE CONCEALED IN WALLS, FLOOR, OR ABOVE CEILINGS UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER. ALL DEVICE OUTLET BOXES SHALL BE RECESSED UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER. WHERE APPROVED OR NOTED, SURFACE METAL RACEWAY AND DEVICE BOXES SHALL BE USED IN-LIEU OF CONDUIT AND CONCEALED BOXES AT NO EXTRA COST TO THE OWNER.
- 7) ALL CONDUIT ROUTES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY FINAL ROUTE.

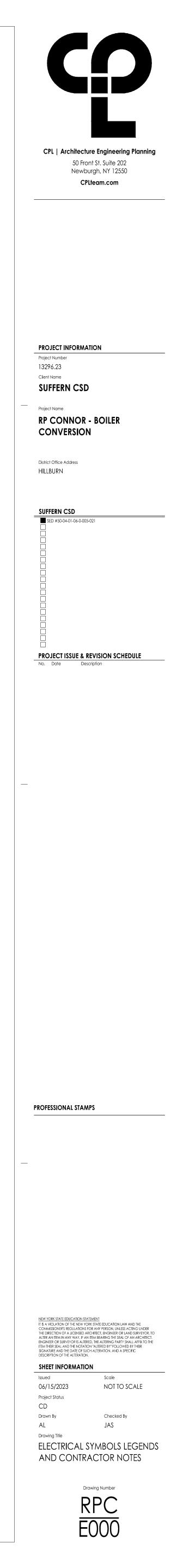
8) CONDUIT RUNS SHOWN ARE SCHEMATICAL AND DO NOT INDICATE THE NECESSARY FITTINGS AND JUNCTION BOXES THAT ARE INCLUDED IN THE SCOPE OF THE WORK.

GROUNDING:

9) ALL METAL RACEWAYS, INCLUDING CONDUIT, WIRE TROUGHS, WIREMOLD, ETC., SHALL BE GROUNDED. ALL CONNECTIONS IN METAL RACEWAYS SHALL BE COMPLETED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUS PATH TO GROUND THROUGHOUT THE ENTIRE LENGTH OF THE RACEWAY.

<u>WIRING:</u>

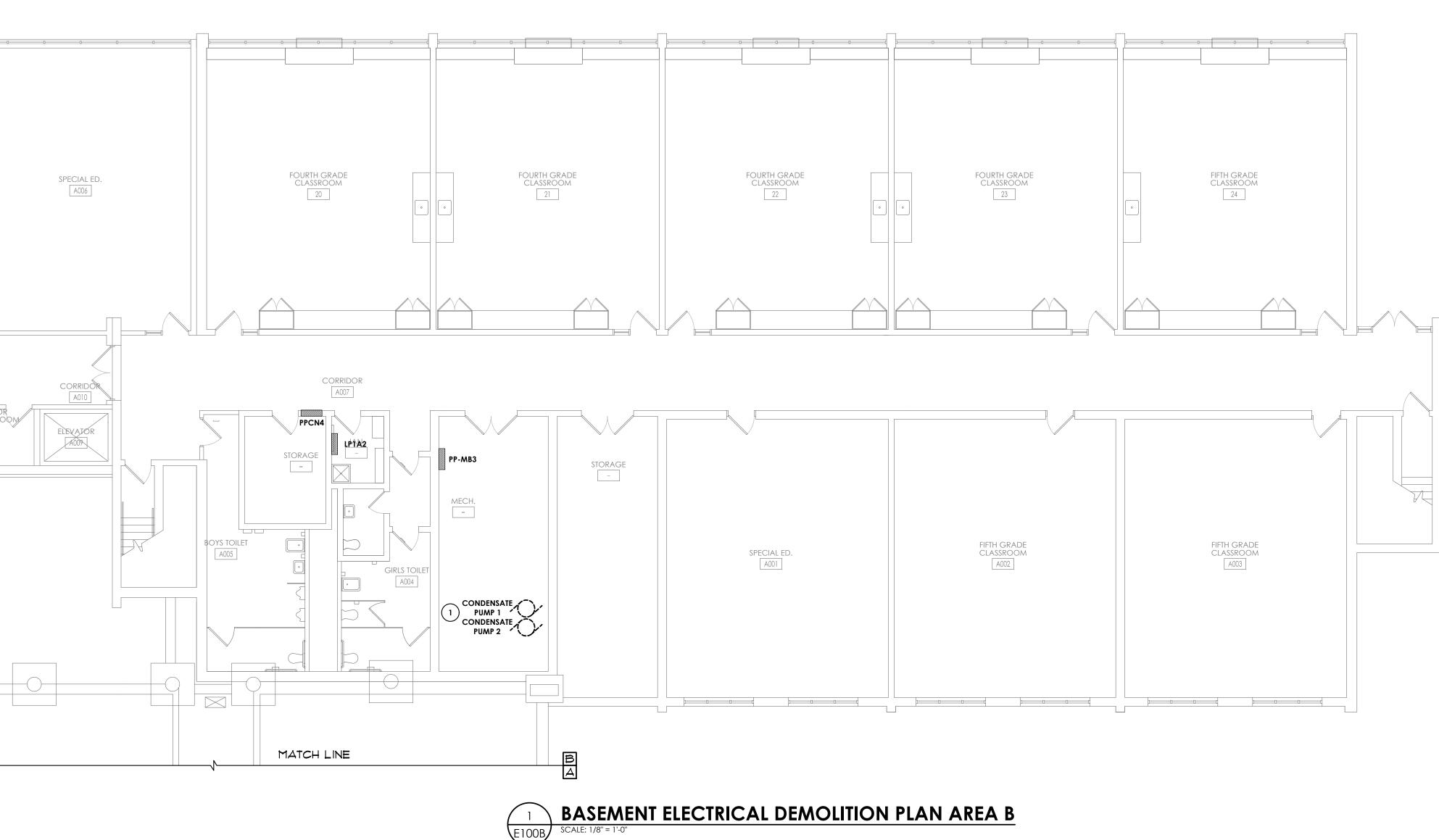
- 10) UNLESS NOTED OTHERWISE ON THE DRAWINGS OR ON THE EQUIPMENT WIRING SCHEDULE, EACH BRANCH CIRCUIT SHALL BE THREE (3) #12 AWG THHN/THWN (1 HOT, 1 NEUTRAL & 1 EQUIPMENT GROUND) IN 3/4" EMT CONDUIT. PROTECT EACH CIRCUIT WITH A 20 AMPÈRE, 1-POLE OVERCURRENT DEVICE UNLESS ÓTHERWISE NOTED. PROVIDE #10 AWG FOR 120V BRANCH CIRCUITS LONGER THAN 100 FEET. COMBINED NEUTRALS ARE NOT PERMITTED.
- 11) ALL NEW CIRCUIT BREAKERS TO BE INSTALLED IN EXISTING POWER PANELS SHALL MATCH THE AIC RATING OF THE PANELBOARD.



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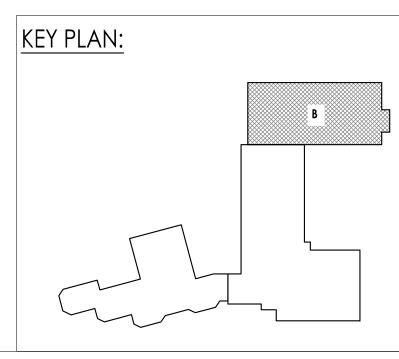


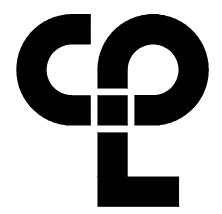
GENERAL DEMOLITION NOTES:

- A. ANY DEVICE, AS WELL AS ITS ASSOCIATED CIRCUITING, AND CONDUIT, LABELED "(E)" SHALL REMAIN, UNLESS OTHERWISE NOTED.
- B. INFORMATION ON DRAWINGS WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. THE Contractor is responsible for the removal and REPLACEMENT OF ANY DEVICES AND CABLING THAT MAY NOT BE SHOWN ON DRAWING AT NO ADDITIONAL COST TO OWNER.
- C. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE AT NO ADDITIONAL COST.
- D. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK .
- E. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED.
- F. ALL ITEMS (DEVICES, FIXTURES, ETC.) SHOWN ARE TO BE REMOVED UNLESS LABELED AS EXISTING TO REMAIN - (E). THESE ITEMS AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE CONTROL PANEL/PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

<u>KEY NOTES:</u>

DISCONNECT AND REMOVE ALL CONDUIT AND WIRING FROM CONDENSATE PUMPS BACK TO SOURCE.





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PROJECT INFORMATION Project Number 13296.23 Client Name

SUFFERN CSD

CONVERSION

Project Name **RP CONNOR - BOILER**

Project Address HILLBURN

PROJECT ISSUE & REVISION SCHEDULE No. Date Description

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING PARTY SHALL AFFIX TO THE ITEM THER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. SHEET INFORMATION Scale

Issued 06/15/2023 Project Status CD Drawn By AL Drawing Title

AS NOTED Checked By JAS

BASMENT ELECTRICAL DEMOLITION PLAN AREA B



Revision Number

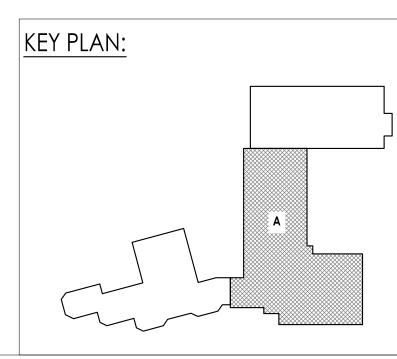


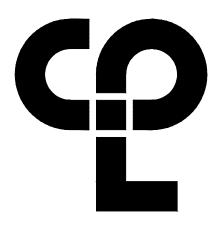
GENERAL DEMOLITION NOTES:

- A. ANY DEVICE, AS WELL AS ITS ASSOCIATED CIRCUITING, AND CONDUIT, LABELED "(E)" SHALL REMAIN, UNLESS OTHERWISE NOTED.
- B. INFORMATION ON DRAWINGS WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ANY DEVICES AND CABLING THAT MAY NOT BE SHOWN ON DRAWING AT NO ADDITIONAL COST TO OWNER.
- C. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE AT NO ADDITIONAL COST.
- D. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK .
- E. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED.
- F. ALL ITEMS (DEVICES, FIXTURES, ETC.) SHOWN ARE TO BE REMOVED UNLESS LABELED AS EXISTING TO REMAIN - (E). THESE ITEMS AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE CONTROL PANEL/PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.
- G. ALL STEAM UNIT VENTILATORS AND CABINET UNIT HEATERS to be removed during phase 2. Steam system shall REMAIN OPERATIONAL DURING PHASE 1.
- H. SEE DRAWINGS H700 AND H701 FOR BOILER ROOM PHASING DRAWINGS.

KEY NOTES:

- DISCONNECT AND REMOVE CONDUIT AND WIRE FROM BOILER B1-PHASE 1, BACK TO SOURCE PANEL IN ITS ENTIRETY.
- 2 DISCONNECT CONDUIT AND WIRE FROM UNIT VENTILATORS, PULL BACK TO AN AREA OUTSIDE OF DEMOLITION AND TAG FOR RE-USE.
- 3 DISCONNECT CONDUIT AND WIRE FROM CABINET UNIT HEATER, PULL BACK TO AN AREA OUTSIDE OF DEMOLITION AND TAG FOR
- RE-USE. DISCONNECT AND REMOVE ALL CONDUIT AND WIRING FROM PUMPS BACK TO SOURCE.
- 5 DISCONNECT AND REMOVE ALL CONDUIT AND WIRING FROM VACUUM CONDENSATE RETURN PUMP BACK TO SOURCE PANEL IN ITS ENTIRETY.
- 6 DISCONNECT AND REMOVE CONDUIT AND WIRE FROM BOILER B2-PHASE 2, BACK TO SOURCE PANEL IN ITS ENTIRETY.





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PROJECT INFORMATION Project Number 13296.23 Client Name SUFFERN CSD

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PROJECT ISSUE & REVISION SCHEDULE No. Date Description

PROFESSIONAL STAMPS



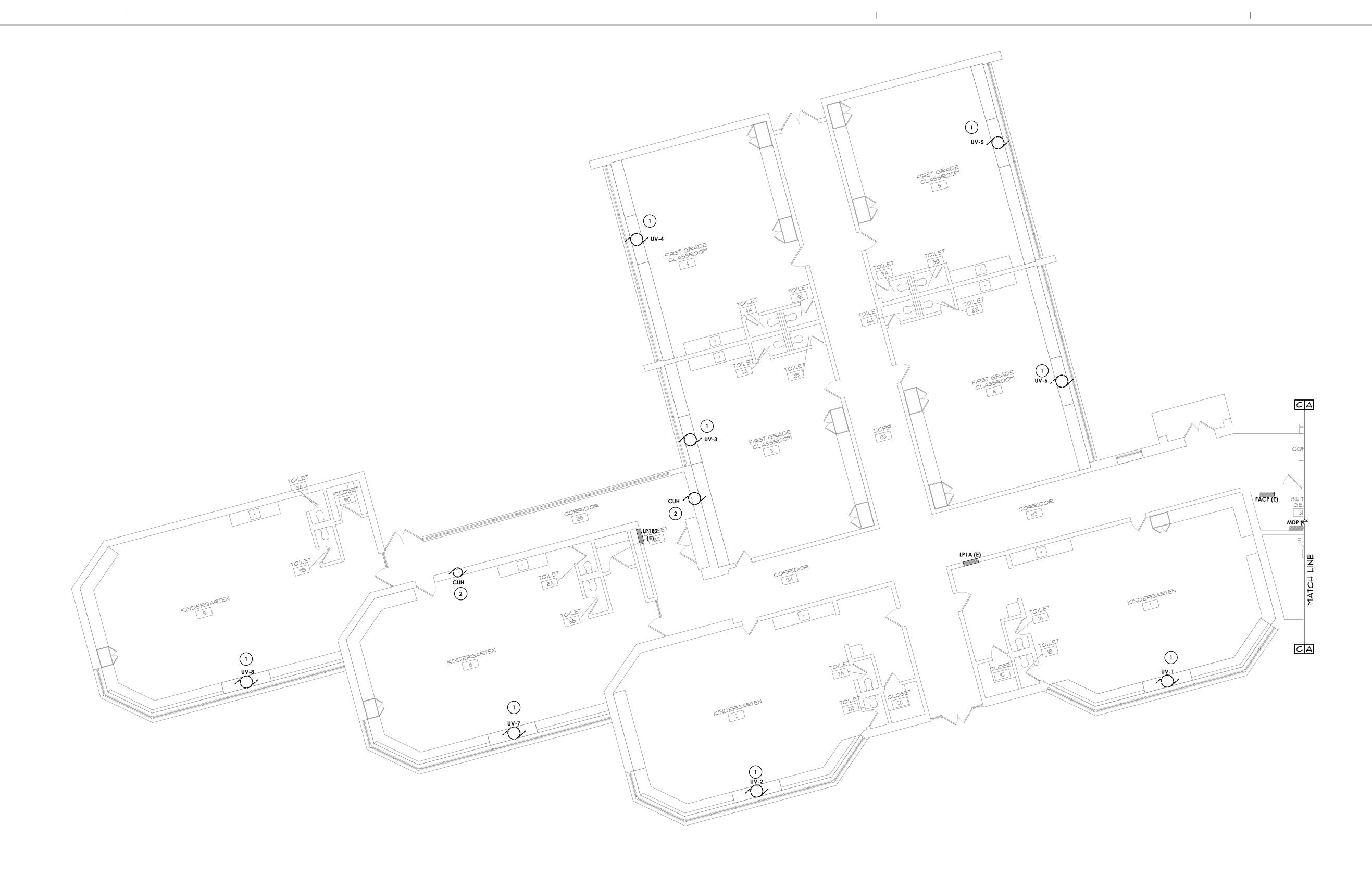
NEW YORK STATE EDUCATION STATEMENT IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNL THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEY. ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHI-ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PART SHALL AFFK IT ITEM THER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THERE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. SHEET INFORMATION Issued Scale 06/15/2023 AS NOTED Project Status CD Drawn By Checked By JAS AL Drawing Title FIRST FLOOR ELECTRICAL



RPC

E101A





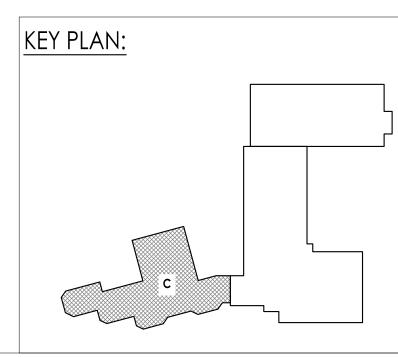
I FIRST FLOOR ELECTRICAL DEMOLITION PLAN AREA C E101C SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

- A. ANY DEVICE, AS WELL AS ITS ASSOCIATED CIRCUITING, AND CONDUIT, LABELED "(E)" SHALL REMAIN, UNLESS OTHERWISE NOTED.
- B. INFORMATION ON DRAWINGS WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. THE Contractor is responsible for the removal and REPLACEMENT OF ANY DEVICES AND CABLING THAT MAY NOT BE SHOWN ON DRAWING AT NO ADDITIONAL COST TO OWNER.
- C. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE AT NO ADDITIONAL COST.
- D. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK .
- E. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED.
- F. ALL ITEMS (DEVICES, FIXTURES, ETC.) SHOWN ARE TO BE REMOVED UNLESS LABELED AS EXISTING TO REMAIN - (E). THESE ITEMS AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE CONTROL PANEL/PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.
- G. ALL STEAM UNIT VENTILATORS AND CABINET UNIT HEATERS to be removed during phase 2. Steam system shall REMAIN OPERATIONAL DURING PHASE 1.

<u>KEY NOTES:</u>

- DISCONNECT CONDUIT AND WIRE FROM UNIT VENTILATORS, PULL BACK TO AN AREA OUTSIDE OF DEMOLITION AND TAG FOR RE-USE.
- DISCONNECT CONDUIT AND WIRE FROM CABINET UNIT HEATERS, PULL BACK TO AN AREA OUTSIDE OF DEMOLITION AND TAG FOR RE-USE.







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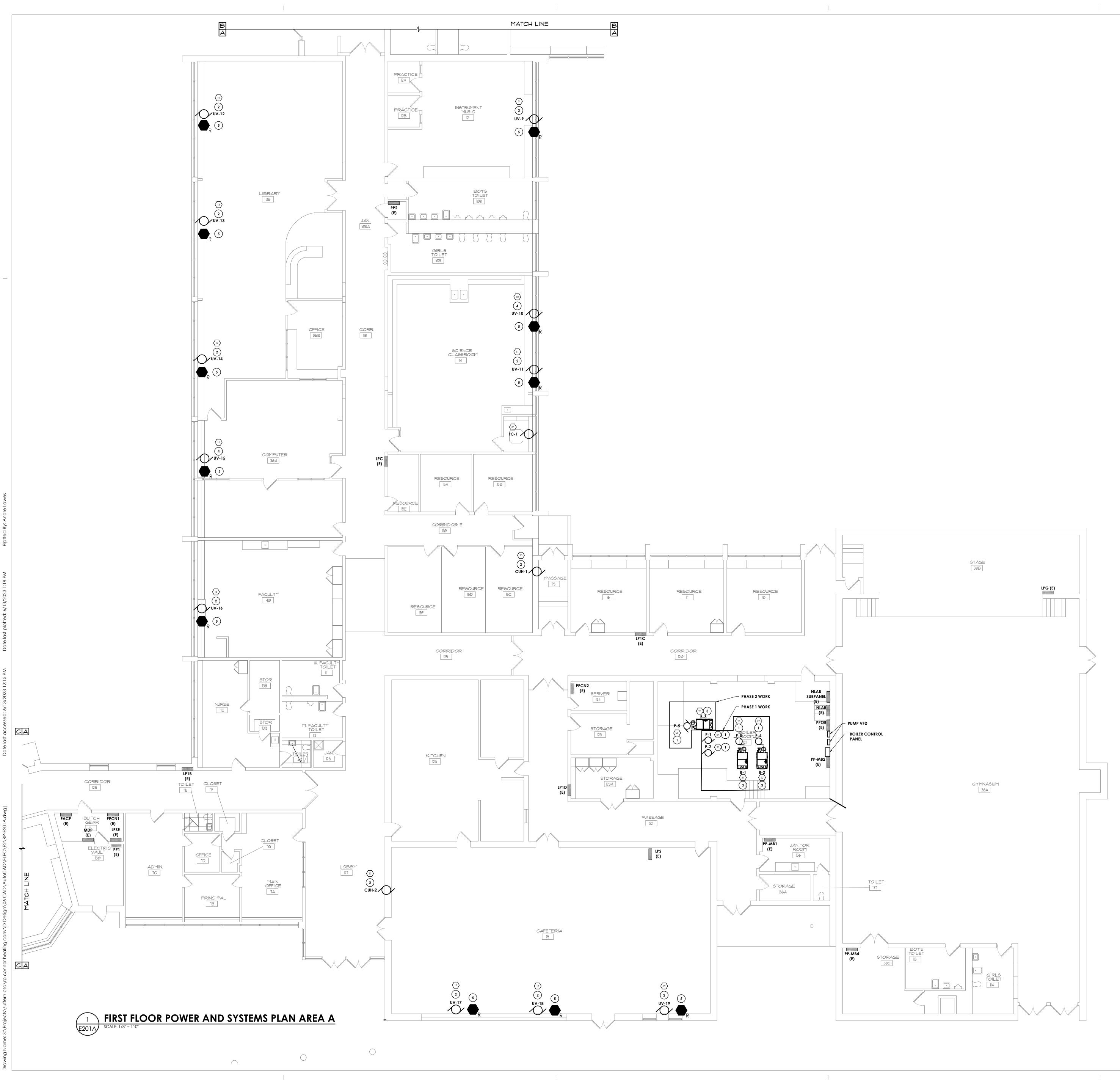


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RPC

E101C

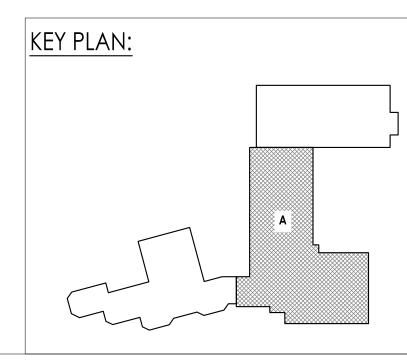


GENERAL NOTES:

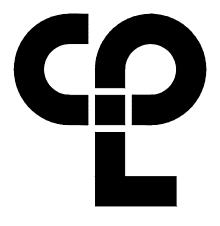
- A. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM EXACT LOCATIONS OF EQUIPMENT WITH OTHER TRADES PRIOR TO INSTALLATION.
- B. REFER TO ELECTRICAL EQUIPMENT SCHEDULE ON SHEET RPC/E900 FOR EQUIPMENT TAG ((#)) CIRCUITING INFORMATION.
- C. (E) EXISTING TO REMAIN. ANY DEVICE, EQUIPMENT, ETC. LABELED AS "(E)" IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- D. (RL) RELOCATED. ANY DEVICE, EQUIPMENT, ETC. LABELED AS "(RL)" IS RELOCATED EXISTING. DEVICE/EQUIPMENT SHALL BE REINSTALLED AT LOCATION INDICATED. REWORK/EXTEND CABLING AND CONDUIT TO NEW LOCATION AS REQUIRED.
- E. DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
- F. PROVIDE #10 THNN FOR ALL CIRCUITS OVER 75'.

<u>KEY NOTES:</u>

- PROVIDE CONNECTION TO NEW PUMP. NEW CIRCUIT BREAKER SHALL BE UL LISTED AND MATCH EXISTING PANELBOARD A.I.C. RATING.
- 2 CONNECT NEW UNIT VENTILATORS TO EXISTING TAGGED CIRCUITRY. REWORK/EXTEND WIRING AS NECESSARY TO ACCOMMODATE NEW UNITS.
- 3 PROVIDE POWER TO NEW BOILER AND CONTROL PANEL. CONNECT TO NEW 20/1 CIRCUIT BREAKER IN PANEL "FED FROM NLAB" WITH (2) #12, #12G IN 3/4" CONDUIT UNLESS NOTED OTHERWISE. NEW CIRCUIT BREAKER SHALL BE UL LISTED AND MATCH EXISTING PANELBOARD A.I.C. RATING.
- PROVIDE POWER TO NEW UNIT VENTILATOR. SEE DRAWING E900 FOR FURTHER INFORMATION ABOUT QUANTITY AND SIZE OF WIRING/CONDUIT.
- 5 PROVIDE FAN SHUTDOWN RELAYS AT HVAC EQUIPMENT CONTROLS. INTERCONNECT RELAYS TO BUILDING FIRE ALARM SYSTEM TO SHUTDOWN FAN MOTORS WHEN THE FIRE ALARM IS ACTIVATED. WIRE BACK TO EXISTING FACP LOCATED IN FIRST FLOOR SWITCHGEAR ROOM 131.







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Project Status CD Drawn By AL Drawing Title

Drawing Number

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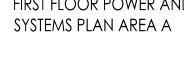
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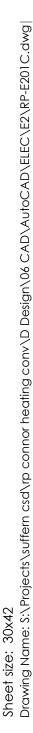
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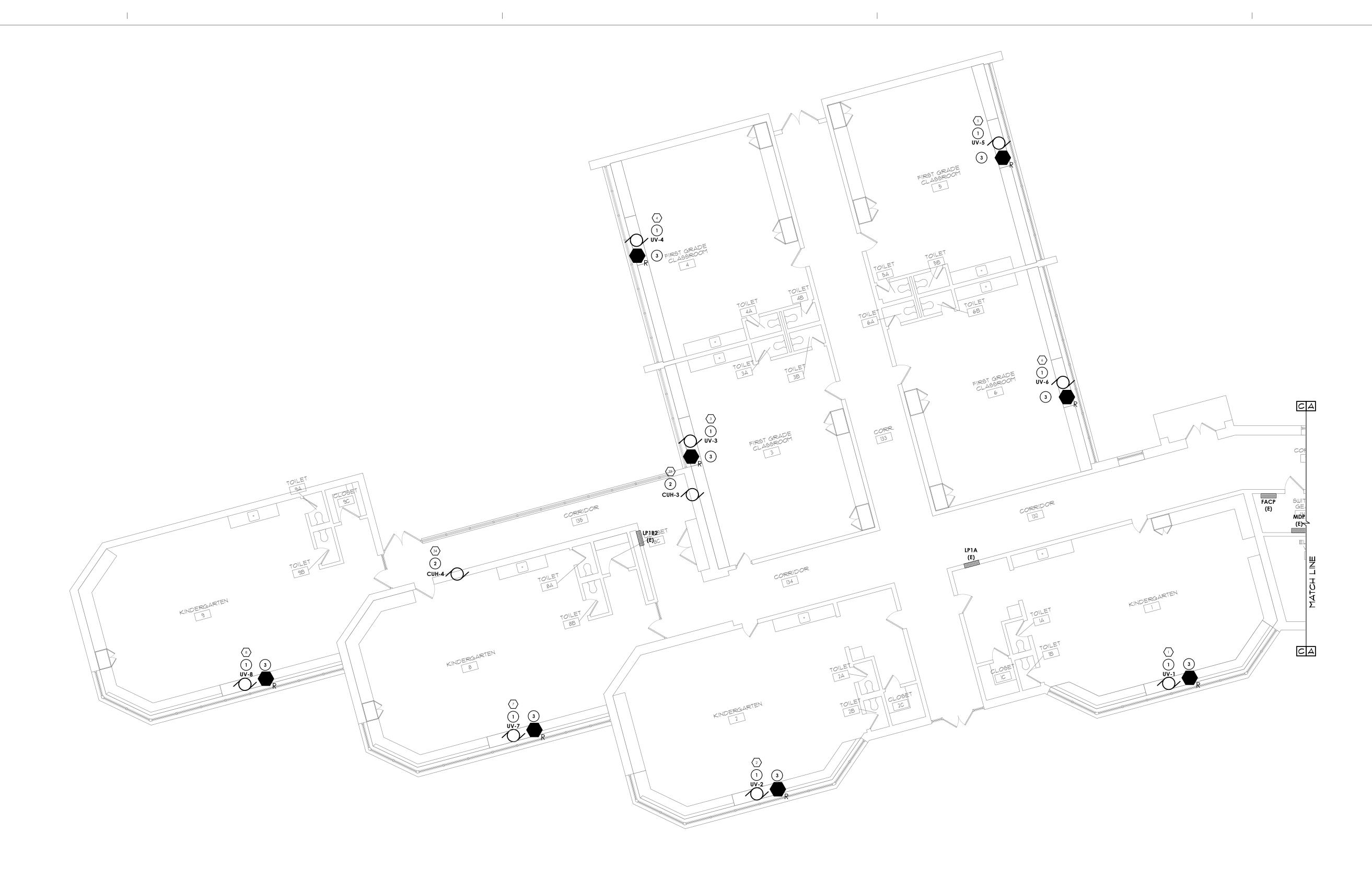
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JAS

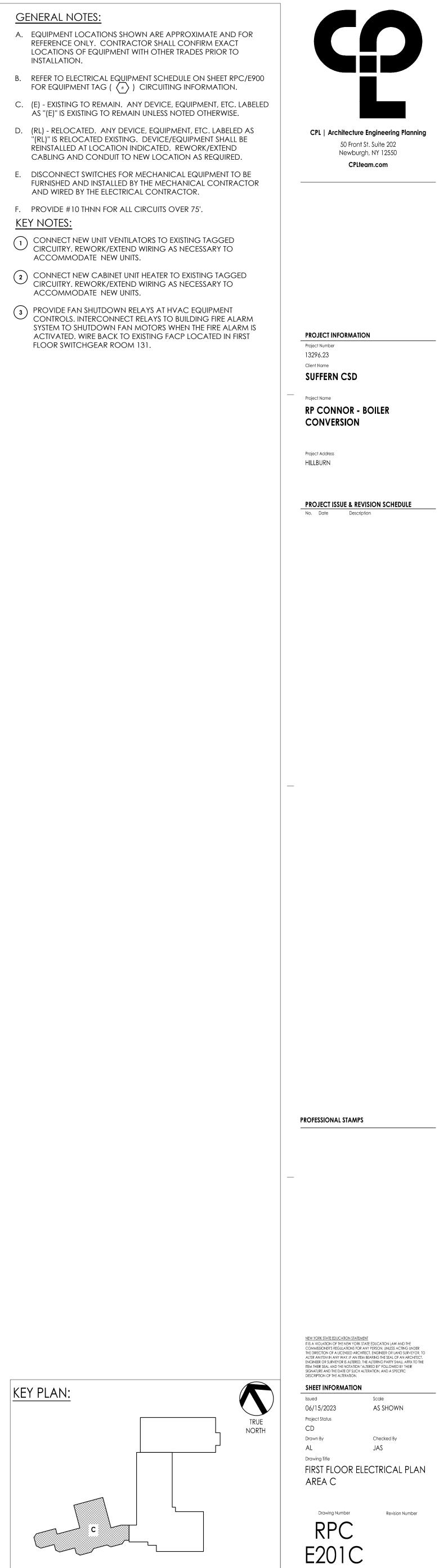
FIRST FLOOR POWER AND

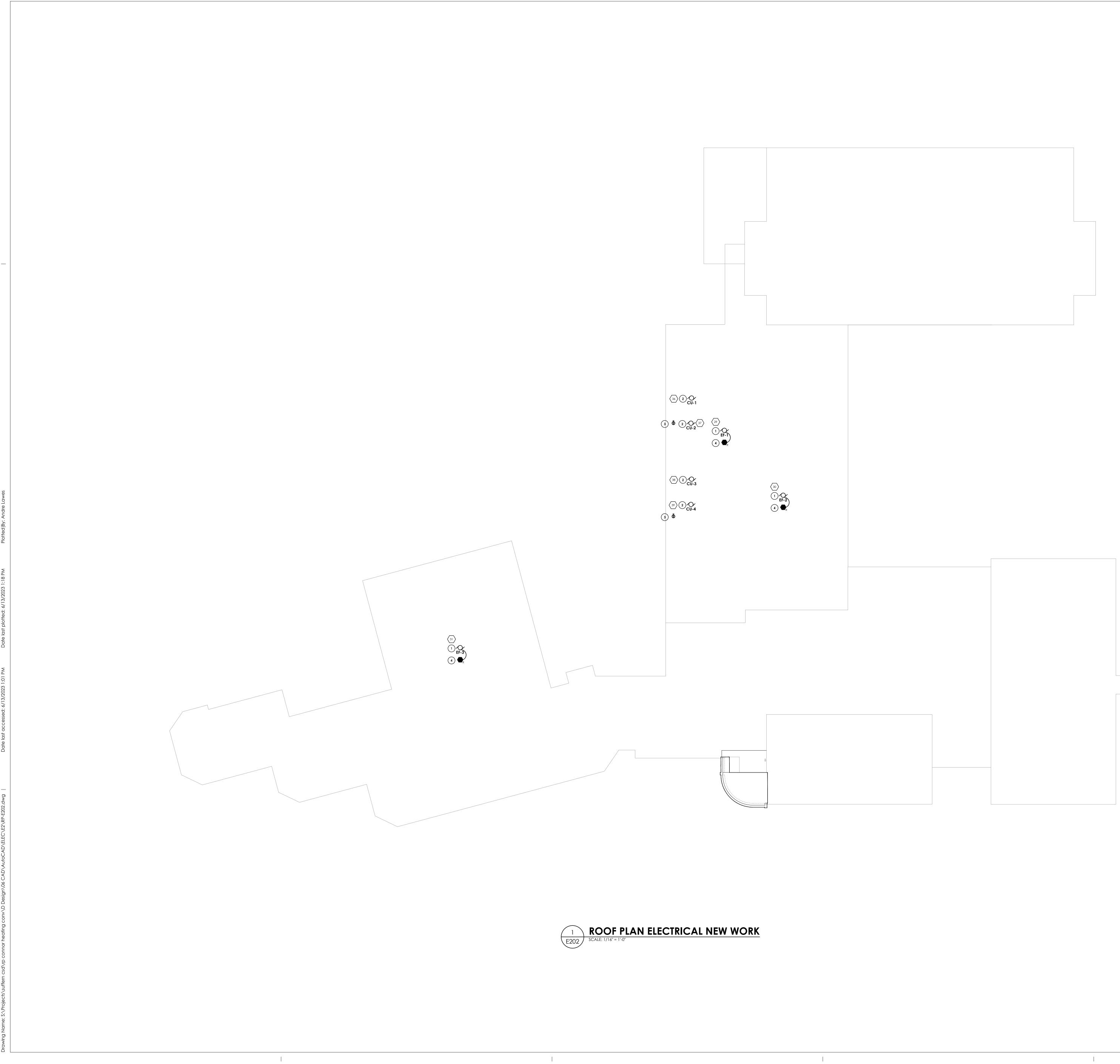






I FIRST FLOOR POWER AND SYSTEMS PLAN AREA C E201C SCALE: 1/8" = 1'-0"

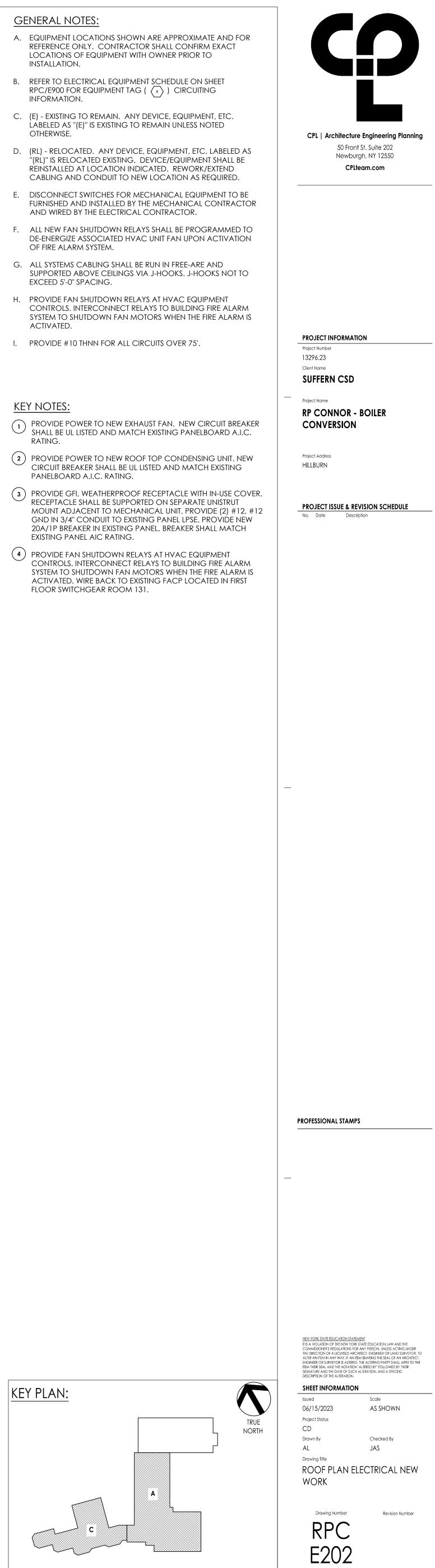




- INFORMATION.

- AND WIRED BY THE ELECTRICAL CONTRACTOR.
- OF FIRE ALARM SYSTEM.
- EXCEED 5'-0'' SPACING.

- RATING.
- PANELBOARD A.I.C. RATING.
- EXISTING PANEL AIC RATING.
- FLOOR SWITCHGEAR ROOM 131.



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TEM NUMBER	EQUIPMENT	ROOM NO.	HP/FLA	VOLTS	PAHSE	AMPS	BREAKER SIZE/FUSE SIZE	WIRE/CONDUIT SIZE	PANEL/CCT	REMARKS
1	UNIT VENTILATOR UV-1	1 KINDERGARTEN	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
2	UNIT VENTILATOR UV-2	2 KINDERGARTEN	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
3	UNIT VENTILATOR UV-3	3 FIRST GRADE	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
4	UNIT VENTILATOR UV-4	4 FIRST GRADE	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
5	UNIT VENTILATOR UV-5	5 FIRST GRADE	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
6	UNIT VENTILATOR UV-6	6 FIRST GRADE	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
7	UNIT VENTILATOR UV-7	8 KINDERGARTEN	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
8	UNIT VENTILATOR UV-8	9 KINDERGARTEN	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
9	UNIT VENTTILATOR UV-9	12 MUSIC	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
10	UNIT VENTTILATOR UV-10	14 SCIENCE	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
11	UNIT VENTTILATOR UV-11	14 SCIENCE	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
12	UNIT VENTILATOR UV-12	36 LIBRARY	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
13	UNIT VENTILATOR UV-13	36 LIBRARY	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
14	UNIT VENTILATOR UV-14	36 LIBRARY	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
15	UNIT VENTILATOR UV-15	36A COMPUTER	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
16	UNIT VENTILATOR UV-16	40 FACULTY	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
17	UNIT VENTTILATOR UV-17	19 CAFETERIA	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
18	UNIT VENTTILATOR UV-18	19 CAFETERIA	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
19	UNIT VENTTILATOR UV-19	19 CAFETERIA	1/3HP	120	1	6.3	-	EXISTING	EXISTING	1,2
20	CABINET UNIT HEATER CUH-1	119 PASSAGE	1/4HP	120	1	2.8	-	EXISTING	EXISTING	1
21	B-1	BOILER ROOM	16A	120	1	16	20/1	(2)#12, #12G IN 3/4"C	NLAB SUB PANEL	1,3
22	В-2	BOILER ROOM	16A	120	1	16	20/1	(2)#12, #12G IN 3/4"C	NLAB SUB PANEL	1,3
23	В-3	BOILER ROOM	16A	120	1	16	20/1	(2)#12, #12G IN 3/4"C	NLAB SUB PANEL	1,3
24	P-1	BOILER ROOM	10HP	208	3	30.8	40/3	(3)#8, #8G IN 3/4"C	PPCN2	1,3,4
25	P-2	BOILER ROOM	10HP	208	3	30.8	40/3	(3)#8, #8G IN 3/4"C	PPCN2	1,3,4
26	P-3	BOILER ROOM	2HP	208	3	6.9	15/3	(3)#12, #12G IN 3/4"C	NLAB SUB PANEL	1,3
27	P-4	BOILER ROOM	2HP	208	3	6.9	15/3	(3)#12, #12G IN 3/4"C	NLAB SUB PANEL	1,3
28	P-5	BOILER ROOM	2HP	208	3	6.9	15/3	(3)#12, #12G IN 3/4"C	NLAB SUB PANEL	1,3
29	EF-1	ROOF	1/3HP	120	1	7.2	20/1	(2)#10, #10G IN 3/4"C	LP1C	1,2,3
30	EF-2	ROOF	1/4HP	120	1	3.8	20/1	(2)#10, #10G IN 3/4"C	LP1C	1,2,3
31	EF-3	ROOF	1/4HP	120	1	5.8	20/1	(2)#10, #10G IN 3/4"C	LP1B	1,2,3
32	CABINET UNIT HEATER CUH-2	121 LOBBY	1/4HP	120	1	2.8	-	EXISTING	EXISTING	1
33	CABINET UNIT HEATER CUH-3	135 CORRIDOR	1/4HP	120	1	2.8	-	EXISTING	EXISTING	1
34	CABINET UNIT HEATER CUH-4	8 KIDERGARTEN	1/4HP	120	1	2.8	-	EXISTING	EXISTING	1
35	FAN COIL UNIT FC-1	14 SCIENCE	1.5A	120	1	1.5	20/1	(2)#12, #12G IN 3/4"C	PP2 - 30	1,3
36	CONDENSER CU-1	ROOF	26.2A	208	1	26.2	45/2	(2)#8, #10G IN 3/4"C	PPCN1	1,2,3
37	CONDENSER CU-2	ROOF	26.2A	208	1	26.2	45/2	(2)#8, #10G IN 3/4"C	PPCN1	1,2,3
38	CONDENSER CU-3	ROOF	26.2A	208	1	26.2	45/2	(2)#8, #10G IN 3/4"C	PPCN1	1,2,3
39	CONDENSER CU-4	ROOF	26.2A	208	1	26.2	45/2	(2)#8, #10G IN 3/4"C	PPCN1	1,2,3
<u>REMARKS:</u>	1. ELECTRICAL CONTRACTOR IS RESPON MECHANICAL CONTRACTOR. ELECTRICA					RTER DEVICE ASSOC	IATED WITH UNIT. MEANS	OF DISCONECT AND/OR STAR	TER ASSOCIATED WITH	H UNIT PROVIDEI
	2. PROVIDE FIRE ALARM FAN SHUTDOWN.									
	3. PROVIDE CIRCUIT BREAKER NOTED IN	PANEL UTILIZE EXISTING B	REAKERS IE AVAII ABI	F. ALL NEW CIRCUIT BE	REAKERS SHALL MATCH	HAIC RATING OF PAN	JEL AND BE ULLISTED AN			

