



**PURCHASING DIVISION
ROOM 210 CITY HALL
142 EAST MAIN STREET
MERIDEN, CONNECTICUT 06450-8022**

**RAWLE DUMMETT
PURCHASING OFFICER**

PHONE 203-630-4115

**NOTICE TO BIDDERS
ADDENDUM #002**

TO THE BID FOR: B024-6; Y cuj lpi vqp'O kf f rg'Uej qqnDqlgt 'Tgr rægo gpv

FOR: City of Meriden

BID DUE DATE: O c{ '21, 2024 at 2:00 PM

This addendum is intended to extend the deadline for bid submissions to May 21, 2024 at 2:00PM and provide additional information to bidders.

Please acknowledge receipt of all addenda on the Bid Form Page(s).

At this time the City does not have the infrastructure to accept electronic bids and therefore bids will only be accepted as directed in the bid documents.

Rawle Dummett
Purchasing Officer
Dated: May 13, 2024

ADDENDUM 1

DATE: 5-10-2024

GENERAL

DRAWINGS:

Drawing M0.1: Mechanical Demolition Work Notes: **Revise** work note #11: Contractor shall furnish and install new temperature control valves. Coordinate with the Temperature Control Contractor. Please refer to attached partial valve schedule. Include control valves for all the radiation, Cabinet and Unit Heaters, Fan Coil Units, VAV boxes, Air Handling Units and Roof Mounted Units. Contractor shall field verify valve sizes.

Drawing M0.1: Mechanical Demolition Work Symbols: **Revise** work symbol #4: existing boiler breaching shall be removed. Patch remaining chimney opening to match existing. Contractor shall clean the interior of the chimney. Provide new stainless-steel cap to be installed on top of the chimney to seal opening. Secure cap to existing chimney.

Drawing M0.1: Mechanical Demolition Work Symbols: **Revise** work symbol #22: Existing Glycol make-up shall be replaced. Provide new 50 Gallon Glycol Make-up Package model #GMP-15050, 1/2HP, 115V, 1ph by Wessels. Install per manufacturer's recommendation. Provide propylene glycol for a 30% solution. Provide 20A circuit for the Glycol pump.

Drawing M0.1: Mechanical Demolition Work Symbols: **Revise** work symbol #31: Existing Fan Coil Unit shall remain. Clean and disinfect coil. Replace existing Pneumatic control valve, provide new DDC control valve.

Drawing M0.2: New Boiler Room Hot Water Piping Diagram: **Revise** new reduced principle backflow preventer, Watts model 909 installed max. 5'-0" AFF.

Drawing E0.1: Refer to attached revised drawing

Question: The gas boilers on the electrical plan show them to be 120v single phase while the schedule on M0.2 calls them to be 480v 3 phase. Please clarify.

Answer: Revise boilers to include new 600V 3PH-30A non-fused heavy duty disconnect (for each boiler) in lieu of thermal overload switch as indicated on drawings. Connect to new equipment as required.

Question: Drawing M0.1 states: "TCC SHALL FURNISH NEW CONTROL VALVES TO THE OWNER TO BE INSTALLED BY FACILITY PERSONNEL". Please clarify if bidders will be required to install control valves furnished by the Controls Contractor.

Answer: Yes, Bidders will be required to furnish and install control valves for all the radiation, CUH and UH, FCU's, AHU's and RTU's.

Question: Drawing M0.2, General Mechanical Note #10: "CLEAN AND DISINFECT EXISTING DUCTWORK". Please provide as-builts of existing ductwork so existing ductwork can be quantified.

Answer: Please refer to attached existing drawings for existing duct layout.

Question: Please advise if waterproofing roof penetrations should be carried by bidders. If so, is there a preferred roofing contractor?

Answer: Contractor shall make any roof penetrations that are part of this contract water proof. There is no preferred roofing contractor.

Question: Please advise if radiographic testing will be required on welded piping.

Answer: Radiographic testing is required for all the welding in the contract.

Question: Per Note #12 on M0.1: "EXISTING INSULATION ON ALL PIPING (HEATING AND CHILLED WATER, DOMESTIC WATER AND REFRIGERANT PIPING). SHALL BE REPLACED." There is piping in the mechanical room that is not shown on the mechanical drawings, so it is not possible to quantify this. Please provide an updated drawing showing all existing piping and sizes that is to be re-insulated.

Answer: The piping is shown for reference. Contractor shall visit the site to verify the pipe sizes and quantities.

Question: Drawing M0.2 calls for the existing backflow preventer to be relocated, however note #13 on M0.1 states "EXISTING MAKE-UP WATER WITH BACKFLOW PREVENTER AND PRESSURE REDUCING VALVE SHALL BE REPLACED. PROVIDE NEW REDUCED PRINCIPLE BACK FLOW PREVENTER AND PRESSURE REGULATING VALVE. INSTALL 5'-0" A.F.F.". Please clarify.

Answer: Existing Reduced Principle Backflow Preventer and pressure regulating valve shall be replaced in kind. Contractor shall field verify size and location. Install new assembly 5'-0" Above the Finished Floor.

Question: Are permit fees waived?

Answer: City Permit Fees are waiver, however contractors are responsible for State of Connecticut Education fees.

Question: What is the estimated Start + Completion date?

Answer: The project shall commence as soon as the City has a fully executed contract. Completion is estimated at three months after executed contract. Lead-times may result in modifications.

Question: Is this project CHRO?

Answer: No. This is not a CHRO project.

Question: Is a proposed project schedule required?

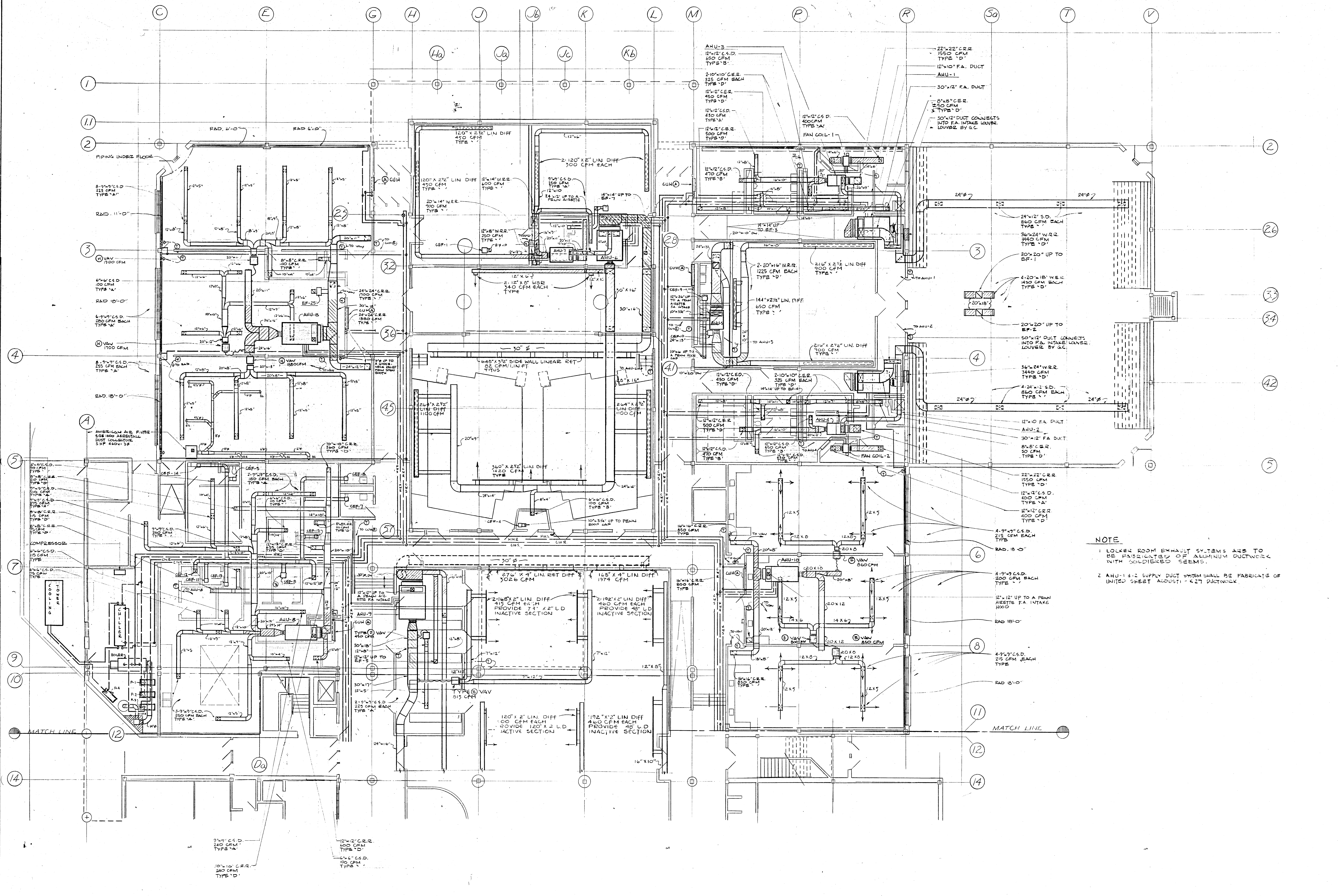
Answer: Yes, a project schedule will be required as part of the bid.

Question: Will maintenance be required on these units once installed, and if so, for how long? (This is separate from the Workmanship Warranty.)

Answer: The installation shall be guaranteed for a period of 18months from the time it was accepted by the City of Meriden. Please refer to Section 20 00 50, paragraph 3.16,

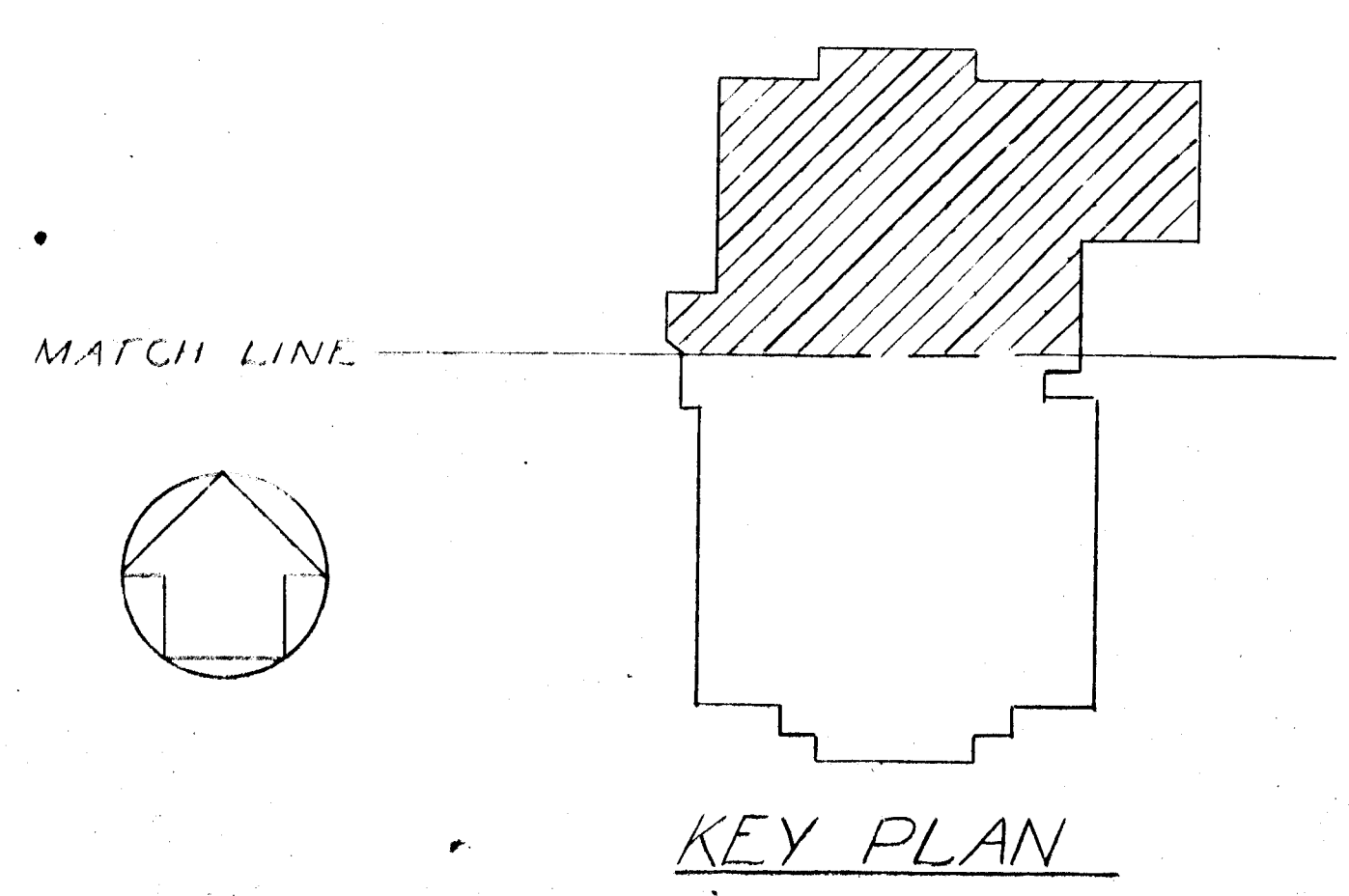
Room Schedule For VAV'S

Bldg./Flr.	Location					Room Controller/Sensor					Reheat Valve					Box Information					Actuator Information			Generate Flag			
	ZONE		System Name	Ref. dwg.	Pt Sched	Controller			Sensor	Device Code	Valve	Size	Valve	Flow	Delta P	Box Type					Code No.	Range	Type		Comments		
	No.	Name				Code No.	NCM Addr	N2 Addr	CS Model		Code No.	Body Style	in.	Cv	GPM lb/hr	psi	Box ID	Box Type	K Factor	Inlet Size (In)						Min CFM	Max CFM
Main Level - North	8	8-GRAPHICS	AHU-8			AS-VAV111-1	#2	1		TE-6411S-2010	VG7842GT+7152G	3-Way	1/2"	4.6	5.9										Electric		
Main Level - North	8	8-CENTER	AHU-8			AS-VAV111-1	#2	2		TE-6411S-2010	VG7842GT+7152G	3-Way	1/2"	4.6	6.2											Electric	
Main Level - North	8	8-SHOP	AHU-8			AS-VAV111-1	#2	3		TE-6411S-2010	VG7842GT+7152G	3-Way	1/2"	4.6	6.4											Electric	
Main Level - North	9	9-AV/WORKRM	AHU-9			AS-VAV111-1	#2	4		TE-6411S-2010	VG7842GT+7152G	3-Way	1/2"	4.6	4.8											Electric	
Main Level - North	9	9-TEACHERS	AHU-9			AS-VAV111-1	#2	5		TE-6411S-2010	VG7842GT+7152G	3-Way	1/2"	4.6	5.6											Electric	
Main Level - North	10	10-ART N.	AHU-10			AS-VAV111-1	#2	6		TE-6411S-2010	VG7842GT+7152G	3-Way	1/2"	4.6	4.3											Electric	
Main Level - North	10	10-CENTER	AHU-10			AS-VAV111-1	#2	7		TE-6411S-2010	VG7842GT+7152G	3-Way	1/2"	4.6	4.2											Electric	
Main Level - North	10	10-ART S.	AHU-10			AS-VAV111-1	#2	8		TE-6411S-2010	VG7842GT+7152G	3-Way	1/2"	4.6	4.5											Electric	
Upper Level	11	11-NW	AHU-11			AS-VAV111-1	#2	9		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.7											Electric	
Upper Level	11	11-N. CENTER	AHU-11			AS-VAV111-1	#2	10		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.7											Electric	
Upper Level	11	11-N.E.	AHU-11			AS-VAV111-1	#2	11		TE-6411S-2010	VG7842ET+7252G	3-Way	1/2"	1.8	2.0											Electric	
Upper Level	11	11-S.E.	AHU-11			AS-VAV111-1	#2	12		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.5											Electric	
Upper Level	11	11-CORE	AHU-11			AS-VAV111-1	#2	13		TE-6411S-2010	VG7842CT+7152G	3-Way	1/2"	0.7	0.8											Electric	
Upper Level	11	11-S.W.	AHU-11			AS-VAV111-1	#2	14		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.5											Electric	
Upper Level	11	11-W.N.W.	AHU-11			AS-VAV111-1	#2	15		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.9											Electric	
Upper Level	11	11-W.N.E.	AHU-11			AS-VAV111-1	#2	16		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.7											Electric	
Upper Level	11	11-W. W-CENTER	AHU-11			AS-VAV111-1	#2	17		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.7											Electric	
Upper Level	11	11-W.S.W.	AHU-11			AS-VAV111-1	#2	18		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.9											Electric	
Upper Level	11	11--W.S.E.	AHU-11			AS-VAV111-1	#2	19		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.5											Electric	
Upper Level	11	11-W. CORE	AHU-11			AS-VAV111-1	#2	20		TE-6411S-2010	VG7842CT+7152G	3-Way	1/2"	0.7	0.8											Electric	
Main Level - South	12	12-W. OFFICES	AHU-12			AS-VAV111-1	#2	21		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	2.5											Electric	
Main Level - South	12	12-N. OFFICES	AHU-12			AS-VAV111-1	#2	22		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.4											Electric	
Main Level - South	12	12-S. OFFICES	AHU-12			AS-VAV111-1	#2	23		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.1											Electric	
Main Level - South	14	14-N.W.	AHU-14			AS-VAV111-1	#1	1		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.7											Electric	
Main Level - South	14	14-N.E.	AHU-14			AS-VAV111-1	#1	2		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	2.1											Electric	
Main Level - South	14	14-CORE	AHU-14			AS-VAV111-1	#1	3		TE-6411S-2010	VG7842CT+7152G	3-Way	1/2"	0.7	0.7											Electric	
Main Level - South	14	14-EAST	AHU-14			AS-VAV111-1	#1	4		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.9											Electric	
Main Level - South	14	14-S.W.	AHU-14			AS-VAV111-1	#1	5		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.5											Electric	
Main Level - South	14	14-S.E.	AHU-14			AS-VAV111-1	#1	6		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	2.0											Electric	
Upper Level	14	14-N.W. 1st	AHU-14			AS-VAV111-1	#1	7		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.4											Electric	
Upper Level	14	14-N.E. 1st	AHU-14			AS-VAV111-1	#1	8		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.8											Electric	
Upper Level	14	14-CORE 1st	AHU-14			AS-VAV111-1	#1	9		TE-6411S-2010	VG7842CT+7152G	3-Way	1/2"	0.7	0.4											Electric	
Upper Level	14	14-EAST 1st	AHU-14			AS-VAV111-1	#1	10		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.6											Electric	
Upper Level	14	14-S.W. 1st	AHU-14			AS-VAV111-1	#1	11		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.3											Electric	
Upper Level	14	14-S.E. 1st	AHU-14			AS-VAV111-1	#1	12		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.6											Electric	
Main Level - South	15	15-N.W.	AHU-15			AS-VAV111-1	#1	13		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.5											Electric	
Main Level - South	15	15-N.E.	AHU-15			AS-VAV111-1	#1	14		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	2.0											Electric	
Main Level - South	15	15-CORE	AHU-15			AS-VAV111-1	#1	15		TE-6411S-2010	VG7842CT+7152G	3-Way	1/2"	0.7	0.8											Electric	
Main Level - South	15	15-EAST	AHU-15			AS-VAV111-1	#1	16		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	2.0											Electric	
Main Level - South	15	15-S.W.	AHU-15			AS-VAV111-1	#1	17		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.8											Electric	
Main Level - South	15	15-S.E.	AHU-15			AS-VAV111-1	#1	18		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	2.0											Electric	
Upper Level	15	15-N.W. 1st	AHU-15			AS-VAV111-1	#1	19		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.3											Electric	
Upper Level	15	15-N.E. 1st	AHU-15			AS-VAV111-1	#1	20		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.7											Electric	
Upper Level	15	15-CORE 1st	AHU-15			AS-VAV111-1	#1	21		TE-6411S-2010	VG7842CT+7152G	3-Way	1/2"	0.7	0.5											Electric	
Upper Level	15	15-EAST 1st	AHU-15			AS-VAV111-1	#1	22		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.7											Electric	
Upper Level	15	15-S.W. 1st	AHU-15			AS-VAV111-1	#1	23		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.6											Electric	
Upper Level	15	15-S.E. 1st	AHU-15			AS-VAV111-1	#1	24		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.7											Electric	
Main Level - South	16	16-W. INT.	AHU-16			AS-VAV111-1	#1	25		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.5											Electric	
Main Level - South	16	16-N.W. INT.	AHU-16			AS-VAV111-1	#1	26		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.5											Electric	
Main Level - South	16	16-S.W. EXT.	AHU-16			AS-VAV111-1	#1	27		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.6											Electric	
Main Level - South	16	16-S. CENT. EXT.	AHU-16			AS-VAV111-1	#1	28		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.5											Electric	
Main Level - South	16	16-S.E. EXT.	AHU-16			AS-VAV111-1	#1	29		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.6											Electric	
Main Level - South	16	16-S.E. INT.	AHU-16			AS-VAV111-1	#1	30		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.4											Electric	
Main Level - South	16	16-N.E. INT.	AHU-16			AS-VAV111-1	#1	31		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.5											Electric	
Main Level - South	16	16-N. CENTER	AHU-16			AS-VAV111-1	#1	32		TE-6411S-2010	VG7842ET+7152G	3-Way	1/2"	1.8	1.5											Electric	
Main Level - South	16	16-CORE	AHU-16			AS-VAV111-1	#1	33		TE-6411S-2010	VG7842CT+7152G	3-Way	1/2"	0.7	0.5											Electric	

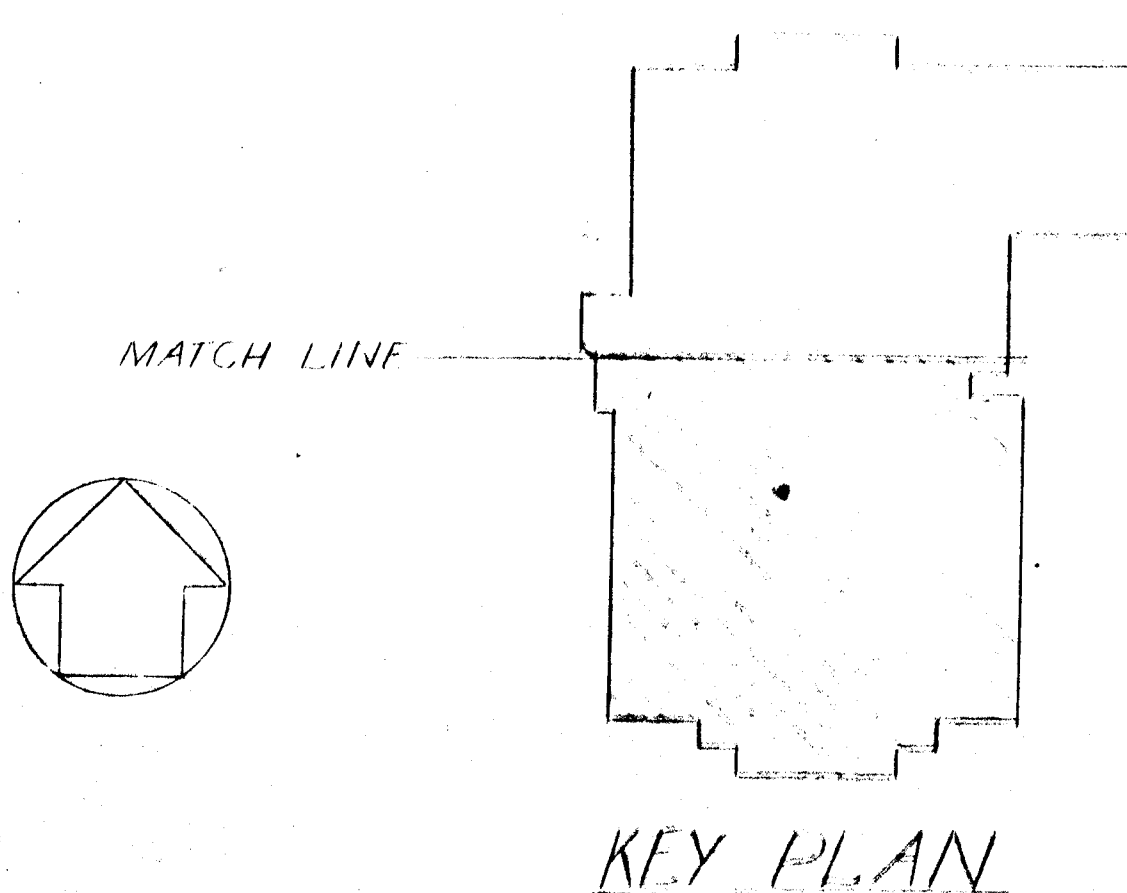
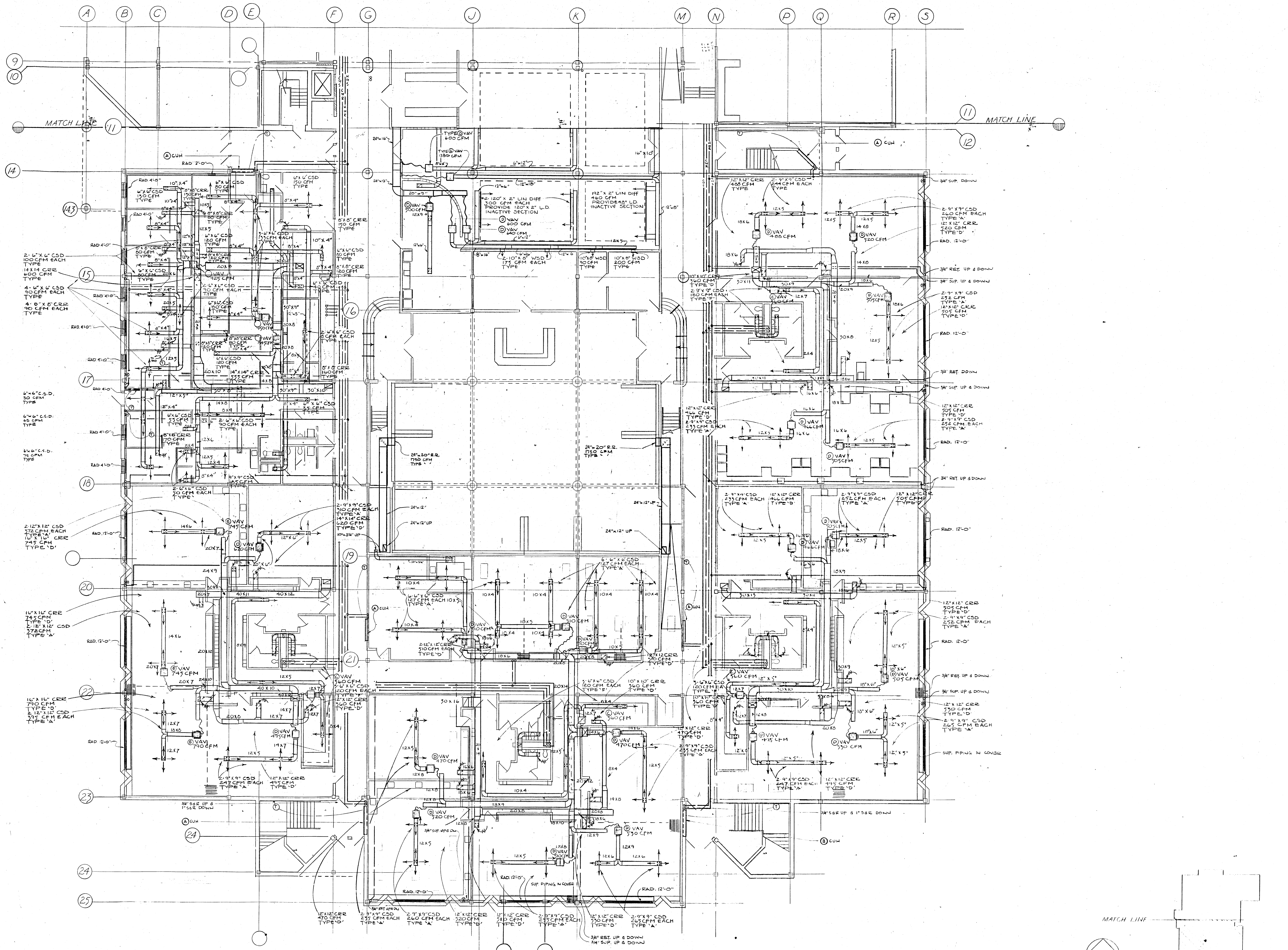


NOTE

1. LOCKER ROOM EXHAUST SYSTEMS ARE TO BE FABRICATED OF ALUMINUM DUCTWORK WITH GOLDIRED SEAMS.
2. AHU-1 & 2 SUPPLY DUCT SYSTEM SHALL BE FABRICATED OF UNITED SHEET ACUSTI-K 27 DUCTWORK.



drawing no. HVAC	HEATING, VENTILATION, AND AIR CONDITIONING FIRST FLOOR PLAN	drawing checked by AV	scale 1/8" = 1'-0"	date	date description
MERIDEN MIDDLE SCHOOL CITY OF MERIDEN CONNECTICUT		CARLIN POZZI-CHIN ARCHITECTS, P.C. THREE LINCOLN STREET NEW HAVEN, CONNECTICUT		STRUCTURAL ENGINEERS MECHANICAL ENGINEERS ELECTRICAL ENGINEERS CIVIL ENGINEERS	
TOR. SHAPIRO ASSOCS. 600 STATE STREET, NEW HAVEN, CT. 80 COTTAGE GROVE ROAD, GUNSHILL, CT.		LEGNOS & CHAMER INC. 243 FARMINGTON AVENUE, HARTFORD, CT. 85 COLONY STREET, MERIDEN, CT.			



MERIDEN MIDDLE SCHOOL
CITY OF MERIDEN, CONNECTICUT

HEATING, VENTILATION, AIR CONDITIONING
FIRST FLOOR PLAN

DRAWING NO. **HVAC-2**

CARLIN POZZI-CHIN ARCHITECTS, P.C.
700 FAY AVENUE, MERIDEN, CONNECTICUT

STRUCTURAL ENGINEERS
TOR. SHAPIRO ASSOCS. 484 CHAPEL STREET, NEW HAVEN, CT

MECHANICAL ENGINEERS
KOTON, ALLEN & ASSOCS., INC. 245 FARMINGTON AVENUE, HARTFORD, CT

ELECTRICAL ENGINEERS
LEGNOS & CRAIG, INC. 245 FARMINGTON AVENUE, HARTFORD, CT

CIVIL ENGINEERS
CARDINAL ENGINEERING ASSOCS., INC. 86 COLONY STREET, MERIDEN, CT

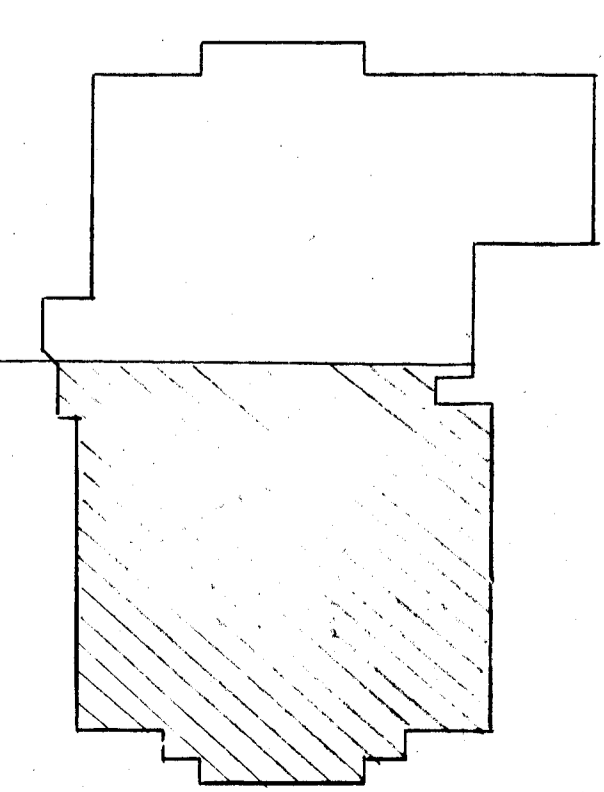
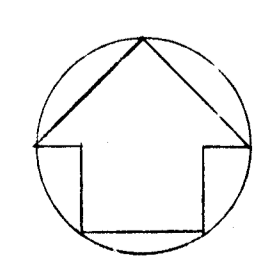
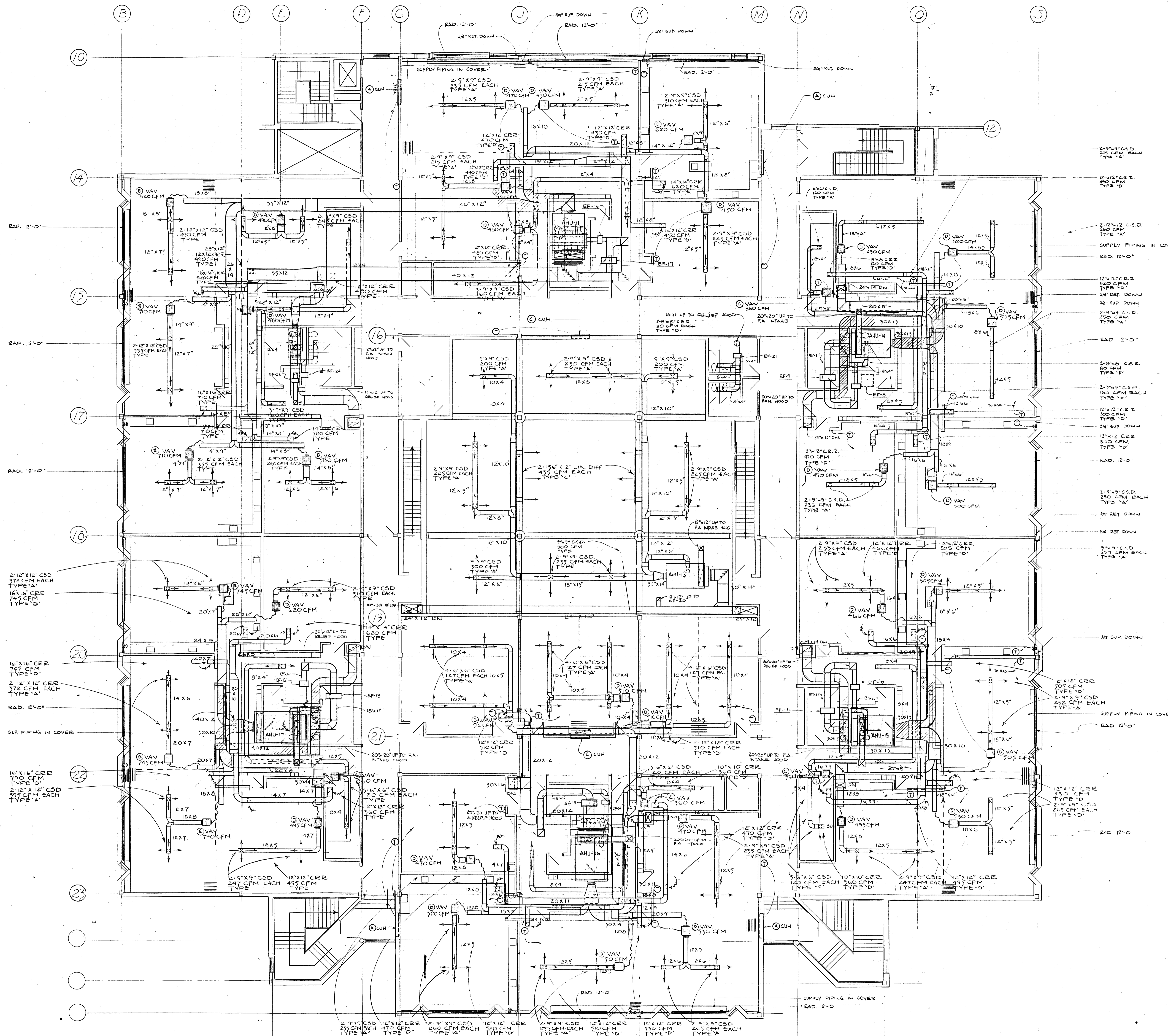
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date: MAY 17, 1982

no. date description: 800181A02

checked by: [signature]

approved by: [signature]



KEY PLAN

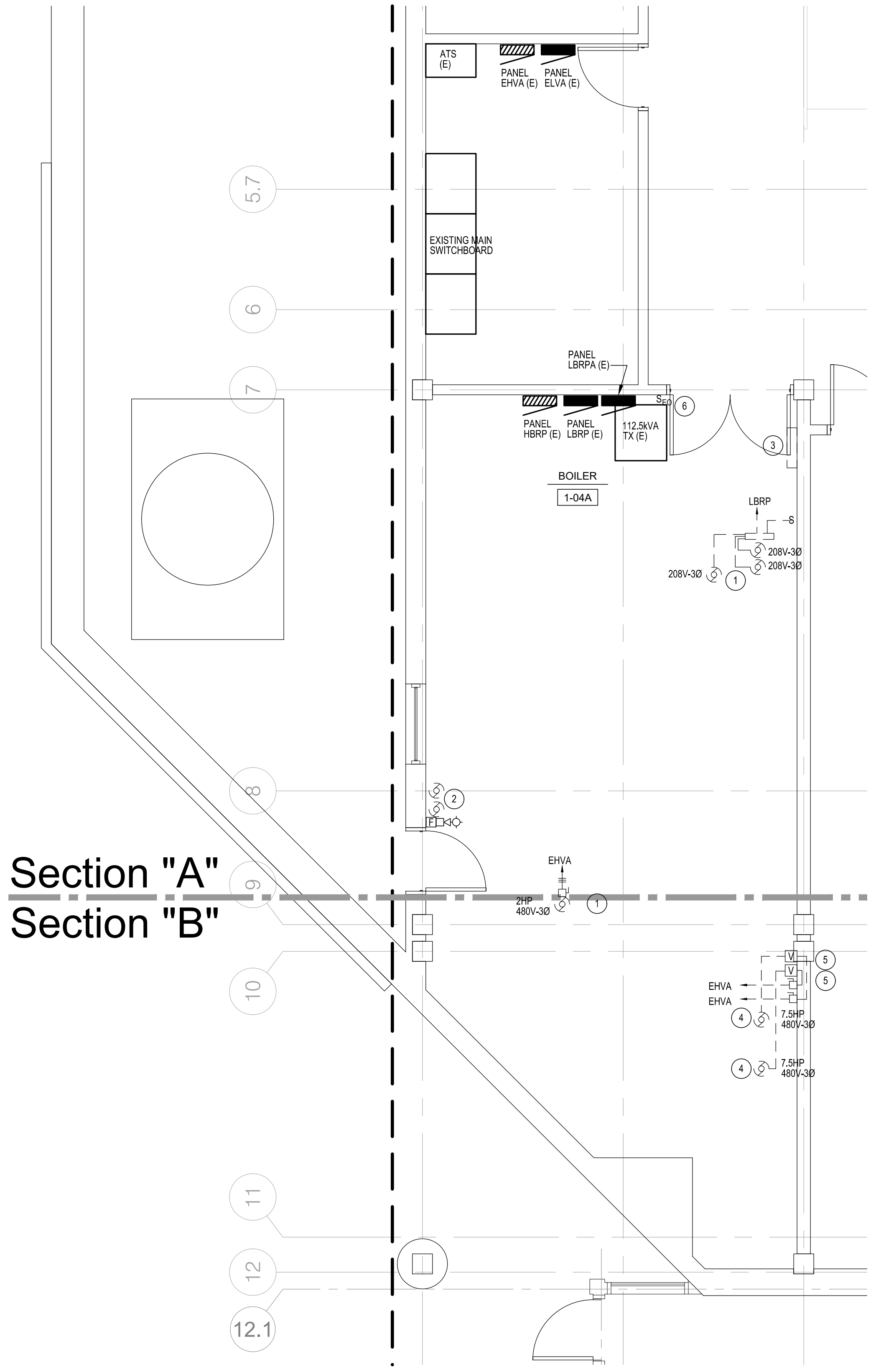
ELECTRICAL DEMOLITION WORK NOTES	
1-	PRIOR TO SUBMITTING BID, VISIT THE SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUCTED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.
2-	THE DEMOLITION DRAWINGS ARE INTENDED ONLY TO DEFINE THE GENERAL SCOPE OF DEMOLITION WORK AND TO ASSIST THE CONTRACTOR DURING BIDDING. THE DEMOLITION DRAWINGS MAY NOT SHOW EVERY ITEM WHICH MUST BE DISCONNECTED, REMOVED, OR RELOCATED IN ORDER TO FACILITATE NEW WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION WORK REQUIRED WHETHER OR NOT SHOWN ON THE PLANS.
3-	REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK AS NECESSARY FOR THE PERFORMANCE OF THE WORK OF THIS CONTRACT.
4-	EXISTING ELECTRICAL EQUIPMENT, WIRING, AND RACEWAYS SHALL NOT BE REUSED UNLESS SPECIFICALLY NOTED OTHERWISE.
5-	REMOVE ALL DEMOLITION MATERIAL FROM THE JOB SITE UNLESS NOTED DIFFERENTLY. MATERIAL REQUESTED BY THE OWNER FOR SALVAGE SHALL BE DELIVERED TO THE OWNER'S DESIGNATED MATERIAL STORAGE AREA.
6-	PROVIDE WIRING AS REQUIRED AND RECONNECT EXISTING FIXTURES, DEVICES, OR EQUIPMENT THAT ARE TO REMAIN ACTIVE, BUT HAVE BEEN DISCONNECTED DURING DEMOLITION OF OTHER FIXTURES, DEVICES, OR EQUIPMENT.

ELECTRICAL KEY NOTES - DEMOLITION	
TAG	DESCRIPTION
1	DISCONNECT & REMOVE EXISTING BOILER ELECTRICAL. REMOVE EXISTING OBSOLETE WIRING BACK TO SOURCE PANEL. CUT BACK CONDUIT TO STRUCTURE, CAP & SECURE AS REQUIRED.
2	DISCONNECT & REMOVE EXISTING FUEL OIL DUPLEX PUMPS ELECTRICAL. REMOVE EXISTING OBSOLETE WIRING BACK TO SOURCE PANEL. CUT BACK CONDUIT TO STRUCTURE, CAP & SECURE AS REQUIRED.
3	DISCONNECT & REMOVE EXISTING BOILER CONTROL PANEL ELECTRICAL. REMOVE EXISTING OBSOLETE WIRING BACK TO SOURCE PANEL. CUT BACK CONDUIT TO STRUCTURE, CAP & SECURE AS REQUIRED.
4	DISCONNECT & REMOVE EXISTING BOILER PUMPS ELECTRICAL. REMOVE EXISTING OBSOLETE WIRING BACK TO VFD. REMOVE EXISTING OBSOLETE CONDUIT.
5	DISCONNECT & REMOVE EXISTING BOILER PUMPS ELECTRICAL (VFD & DISCONNECT SWITCH). REMOVE EXISTING OBSOLETE WIRING BACK TO DISCONNECT. EXISTING HOME RUN TO BE RE-USED MAKE SAFE FOR NEW CONSTRUCTION.
6	DISCONNECT & REMOVE EXISTING EMERGENCY OFF SWITCH AND ALL OBSOLETE WIRING. CUT BACK CONDUIT TO STRUCTURE, SECURE & CAP AS REQUIRED.

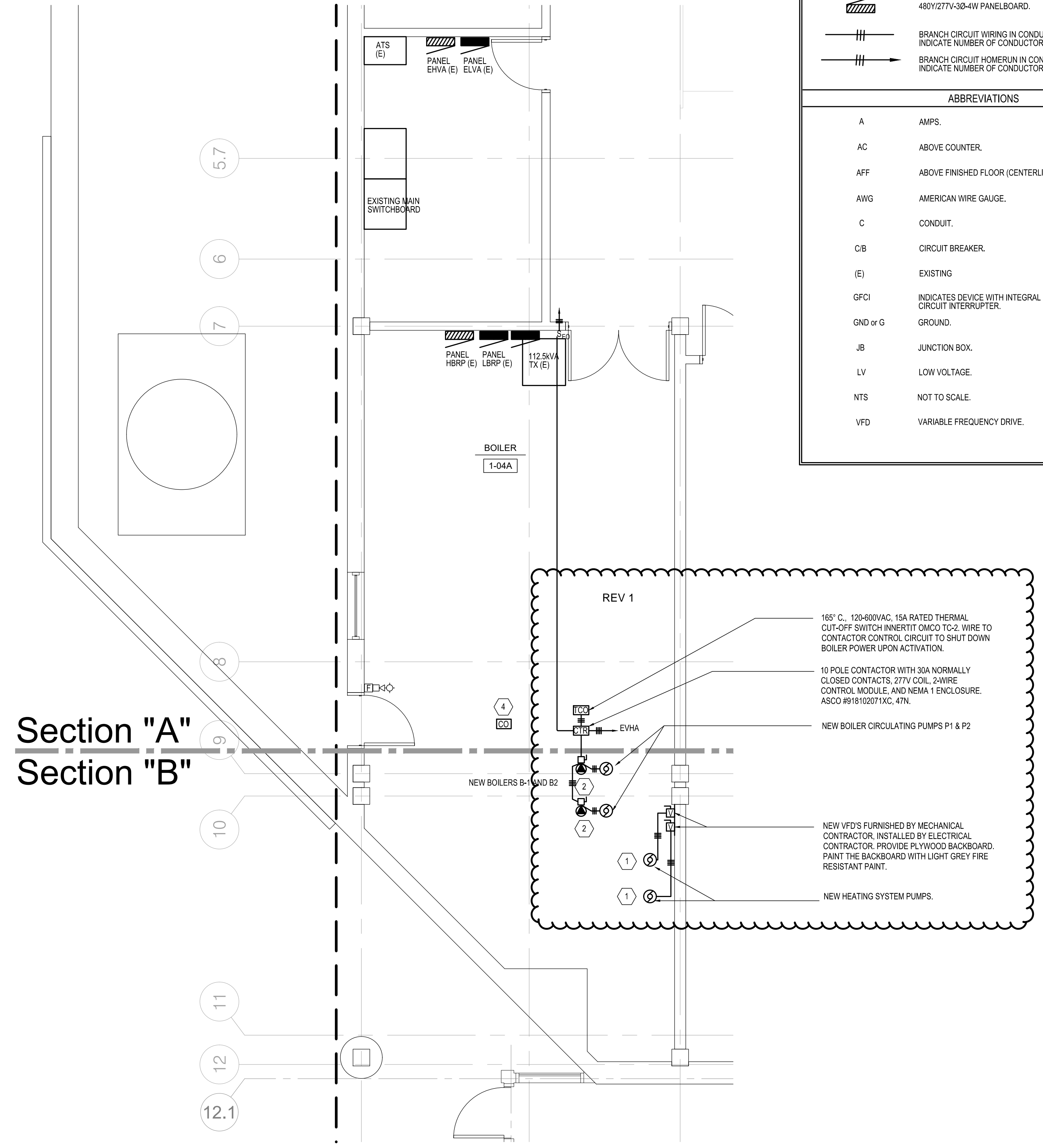
ELECTRICAL KEY NOTES - NEW WORK	
TAG	DESCRIPTION
1	NEW BOILER PUMP 7.5HP @ 480V-3Ø CONNECT TO EXISTING PUMP BRANCH CIRCUIT MADE AVAILABLE BY REMOVAL THROUGHOUT THE PROJECT. COMPLETE INSTALLATION.
2	NEW BOILER EXTEND 4#12, 1#12G IN 3/4" TO NEW 3P-15A CIRCUIT BREAKER IN EXISTING PANEL EVHA THROUGH NEW CONTACTOR & EMERGENCY OFF SWITCH & CONNECT AS REQUIRED. NEW CIRCUIT BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER & AIC RATING (VERIFY IN FIELD). REV 1
3	FURNISH & INSTALL NEW 2-POLE EMERGENCY OFF SWITCH IN SPACE MADE AVAILABLE BY REMOVAL OF EXISTING.
4	PROVIDE A NEW CARBON MONOXIDE DETECTOR ALONG WITH A NEW FIRE ALARM MONITOR MODULE, WIRING CONDUIT, AND CONNECTIONS AS REQUIRED TO CONNECT THE CARBON MONOXIDE DETECTOR TO THE EXISTING FIRE ALARM SYSTEM. THE CARBON MONOXIDE DETECTOR IS TO INITIATE A SUPERVISORY SIGNAL AT THE FIRE ALARM CONTROL PANEL UPON ACTIVATION. SUPERVISORY ALARM SHALL NOTIFY THE MONITORING COMPANY OR DISPATCH. PROVIDE 120V POWER AS REQUIRED FOR THE DETECTOR.

ELECTRICAL DRAWING LEGEND	
SYMBOLS	
S	SINGLE POLE TOGGLE SWITCH, MOUNT WITH TOP AT 48" AFF.
S _{EO}	BOILER EMERGENCY OFF SWITCH, MOUNT AT 60" AFF.
S _T	MOTOR RATED THERMAL OVERLOAD SWITCH
⊕	EQUIPMENT POWER CONNECTION, EQUIPMENT TYPE AS DESIGNATED.
⊖	SOLID STATE CONTACTOR
⊕	MOTOR POWER CONNECTION, EQUIPMENT TYPE AS DESIGNATED.
⊖	CARBON MONOXIDE DETECTOR.
⊖	DISCONNECT SWITCH.
⊖	VARIABLE FREQUENCY DRIVE (VFD).
⊖	VARIABLE FREQUENCY DRIVE (VFD) WITH INTEGRAL DISCONNECT.
⊖	208Y120V-3Ø-4W PANELBOARD.
⊖	480Y277V-3Ø-4W PANELBOARD.
⊖	BRANCH CIRCUIT WIRING IN CONDUIT, CROSS LINES INDICATE NUMBER OF CONDUCTORS.
⊖	BRANCH CIRCUIT HOMERUN IN CONDUIT, CROSS LINES INDICATE NUMBER OF CONDUCTORS.
ABBREVIATIONS	
A	AMPS.
AC	ABOVE COUNTER.
AFF	ABOVE FINISHED FLOOR (CENTERLINE OF DEVICE OR EQUIPMENT).
AWG	AMERICAN WIRE GAUGE.
C	CONDUIT.
C/B	CIRCUIT BREAKER.
(E)	EXISTING
GFCI	INDICATES DEVICE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
GND or G	GROUND.
JB	JUNCTION BOX.
LV	LOW VOLTAGE.
NTS	NOT TO SCALE.
VFD	VARIABLE FREQUENCY DRIVE.

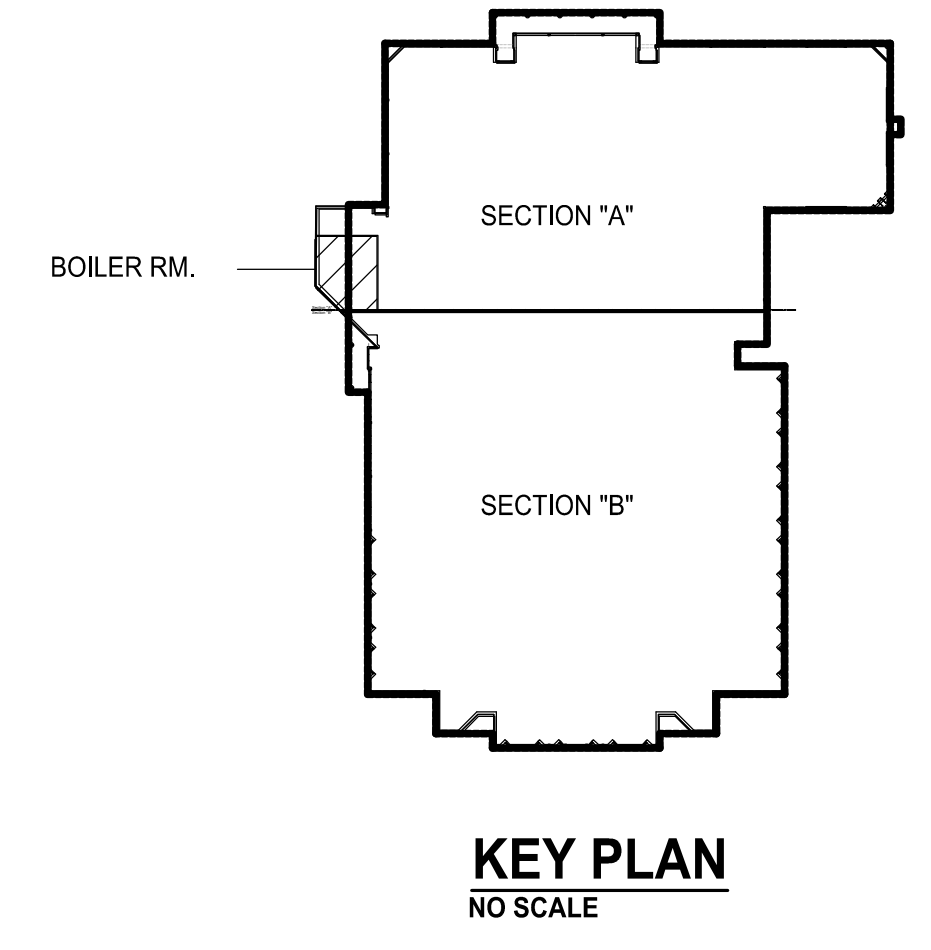
GENERAL NOTES - POWER	
1-	THE CONTRACTOR SHALL VERIFY AND OBTAIN ALL NECESSARY DIMENSIONS AT THE BUILDING.
2-	FINISHED WORK, THE INTENT OF THE SPECIFICATIONS AND DRAWINGS IS TO CALL FOR FINISHED WORK, COMPLETED, TESTED AND READY FOR OPERATION.
3-	GOOD PRACTICE: IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY CONDUIT, JUNCTION BOX, FITTING OR MINOR DETAIL AND IT IS UNDERSTOOD THAT WHILE THE DRAWINGS MUST BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, THE SYSTEMS SHALL BE INSTALLED ACCORDING TO THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH GOOD PRACTICE.
4-	ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON DRAWINGS BUT MENTIONED IN SPECIFICATIONS OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND PERFECT IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
5-	CODES AND STANDARDS - COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES AND STANDARDS WHEREVER APPLICABLE INCLUDING THE FOLLOWING: 2018 CONNECTICUT STATE BUILDING CODE, 2015 INTERNATIONAL BUILDING CODE, 2018 CONNECTICUT FIRE SAFETY CODE, 2015 INTERNATIONAL FIRE CODE, 2013 NFPA 72 NATIONAL FIRE ALARM CODE, 2017 NFPA 70 NATIONAL ELECTRICAL CODE, 2010 NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, 2015 INTERNATIONAL ENERGY CONSERVATION CODE, ICCANS A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, ADA, NFPA, UNDERWRITERS LABORATORIES, FACTORY MUTUAL INSURANCE COMPANY, NEMA STANDARDS.
6-	NOTE THAT THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL EQUIPMENT AND SYSTEMS, WITHOUT SHOWING EVERY DETAIL AND FITTING.
7-	RACEWAYS: PROVIDE EMT CONDUIT FOR ALL WIRING. EMT CONNECTORS AND COUPLINGS SHALL BE GALVANIZED STEEL, SET-SCREW TYPE. PROVIDE GLAND COMPRESSION CONNECTORS AND COUPLINGS WHERE LOCATED IN SHIP AND WET LOCATIONS. PROVIDE FLEXIBLE STEEL CONDUIT FOR FINAL CONNECTIONS TO MOTOR DRIVEN EQUIPMENT. PROVIDE LIQUID TIGHT FLEXIBLE STEEL CONDUIT FOR FINAL CONNECTIONS TO MOTOR DRIVEN EQUIPMENT LOCATED OUTDOORS.
8-	BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, RATED 90 VOLTS, 90 DEG C., COLOR CODED, TYPE THWN-2.
9-	WIRE SIZE #8 AWG AND LARGER SHALL BE STRANDED, WIRE OF SIZE SMALLER THAN #8 AWG SHALL BE SOLID.
10-	MINIMUM SIZE CONDUCTORS FOR POWER AND LIGHTING SHALL BE #12 AWG. PROVIDE MINIMUM #10 AWG SIZE FOR RUNS EXCEEDING 75' IN CONDUCTOR LENGTH, AND #8 AWG SIZE FOR RUNS EXCEEDING 150' IN CONDUCTOR LENGTH. PROVIDE LARGER SIZE CONDUCTORS AS SCHEDULED OR AS NOTED ON THE DRAWINGS.
11-	THE NUMBER OF WIRES IN A CONDUIT RUN IS INDICATED ON THE DRAWINGS BY CROSS LINES ON THE CONDUIT RUNS. PROVIDE CODE-SIZED CONDUIT FOR THE NUMBER AND SIZE OF WIRES UNLESS A LARGER SIZE IS SHOWN ON THE DRAWINGS. MINIMUM CONDUIT SIZE SHALL BE 3/4".
12-	RACEWAYS SHALL BE CONCEALED WHEREVER POSSIBLE IN ALL FINISHED AREAS.
13-	RACEWAYS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO WALL LINES.
14-	RACEWAYS SHALL BE SUPPORTED FROM THE STRUCTURE BY STRAP HANGERS, ROD HANGERS, OR RACK MOUNTED, OR OTHER APPROVED ELECTRICAL MOUNTING.
15-	PROVIDE FIRE STOPPING AT ALL FIRE AND/OR SMOKE RATED WALL OR CEILING PENETRATIONS IN ORDER TO MAINTAIN ITS ORIGINAL INTEGRITY.
16-	OUTLET JUNCTION, AND PULL BOXES SHALL BE CODE GAUGE GALVANIZED STEEL AND SHALL BE OF SHAPES AND SIZES TO SUIT THEIR RESPECTIVE LOCATIONS AND INSTALLATIONS, AND SHALL BE PROVIDED WITH COVERS TO SUIT THEIR FUNCTION AND INSTALLATION. PROVIDE CAST BOXES FOR OUTDOOR WORK.
17-	THE CONTRACTOR SHALL ASSUME THAT THE EXISTING BUILDING WIRING SYSTEM UTILIZES A CONDUIT GROUND. THE CONTRACTOR SHALL MAINTAIN ADEQUATE GROUND CONTINUITY FOR ALL NEW WORK.



BOILER ROOM PART PLAN - ELECTRICAL DEMOLITION
SCALE: 1/4"=1'-0"



BOILER ROOM PART PLAN - ELECTRICAL NEW WORK
SCALE: 1/4"=1'-0"



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TITLE
**BOILER ROOM
ELECTRICAL
DEMOLITION and
NEW WORK**

DATE **03/14/2024**

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