

Springfield Township Library Renovation: Contractor Inquiry List **Addendum #2**

The following are additional clarifications of Addendum#1 released on September 15th:

- Attached are updated MEP drawings and narrative supporting the revisions reflected in Addendum #1.
- Attached is an updated bid sheet for your use.
- Further clarification we would like to include all flooring that contains asbestos throughout the building.

Memorandum

TO: Springfield Township

FROM: Pennoni

DATE: 09/15/2026

SUBJECT: MEP Bid Addendum #1 Narrative

Mechanical Revisions

M200

1. Clarified manufacture clearances for boilers.
2. Added sections to ERV-1 for clarity.

M201

1. Re-oriented FCU 3-3 for constructability in field.

M300

1. Added (2) 1" bypass valves and piping on HWS/R branch lines.
2. Added location for DF-1 time clock controller.

M301

1. Added location for DF-2 time clock controller.
2. Re-oriented FCU 3-3 for constructability in field.

M400

1. Added 1" bypass valve and piping on HWS/R branch lines.
2. Re-sized HWR piping to 2".
3. Revised boiler venting to be individual. This comes with the removal of backdraft dampers.
4. Clarified manufacturer clearances between boilers.
5. Added ERV sections for clarity.

M500

1. Revised DF-1 and DF-2 control strategies.
2. Added specification for DF-1 and DF-2 controllers.
3. Clarified setpoints for FCU and AC sensors.

M600

1. Revised flow diagram to show individual boiler venting.

M700

1. Boiler Schedule: Clarified natural gas pressures, and clarification that boilers are to be provided with integral circulation pump.
2. Pump Schedule: Note 1 removed.
3. VRF Fan Coil Schedule: Removed the requirement to signal condensate overflow to AC Smart controller. Added

requirement for refrigerant detection sensors.

4. Ductless AC Unit Schedule: Removed the requirement to signal condensate overflow to AC Smart controller. Added requirement for refrigerant detection sensors.

M701

1. Fan Schedule: Clarified DF-1 and DF-2 operation in notes.
2. Added backdraft damper requirements to EF-1, EF-2, and EF-3.

Electrical Revisions

E200

1. Revised and reduced the quantity of floor boxes and associated power connections based on the updated furniture layout.
2. Relocated the main service disconnecting means and electric meter from the electrical room to the building exterior.
3. Clarified the proposed PECO electrical service configuration, including the base-bid requirements for a new PECO-owned pad-mounted transformer and deduct-alternate requirements for connection to the existing pole-mounted transformer.

E201

1. Revised and reduced the quantity of floor boxes/poke-through assemblies and associated power connections based on the updated furniture layout.

Plumbing Revisions

P202

1. Removed un-referenced section views.
2. Added initials to "DRAWN BY" and "APPROVED BY" title block fields.

P300

1. Added "Connect to Existing" tag to domestic water riser diagram.
2. Added initials to "DRAWN BY" and "APPROVED BY" title block fields.

PROPOSAL: Bidders agrees to perform all the work indicated in your package below

Work described in the specifications and shown on the plans for the following prices:

BID PACKAGE NO. 1 – General Construction including Site work

The sum for all work necessary to complete work above as further defined by Drawings and specifications.....\$ _____

BID PACKAGE NO. 2 – Mechanical Construction including Sprinklers

The sum for all work necessary to complete work above as further defined by Drawings and Specifications.....\$ _____

BID PACKAGE NO. 3 – Plumbing Construction

The sum for all work necessary to complete work above as further defined by Drawings and Specifications.....\$ _____

BID PACKAGE NO. 4 – Electrical Construction

The sum for all work necessary to complete work above as further defined by Drawings and Specifications.....\$ _____

ONSITE 12X60 JOB TRAILER \$ _____

UNIT PRICE PER SQUARE FOOT FOR MOSITURE BARRIER \$ _____

The Bidder confirms that he has included all items required to be a part of a complete bid submission, as further clarified by items identified in bold text in the index.

Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.

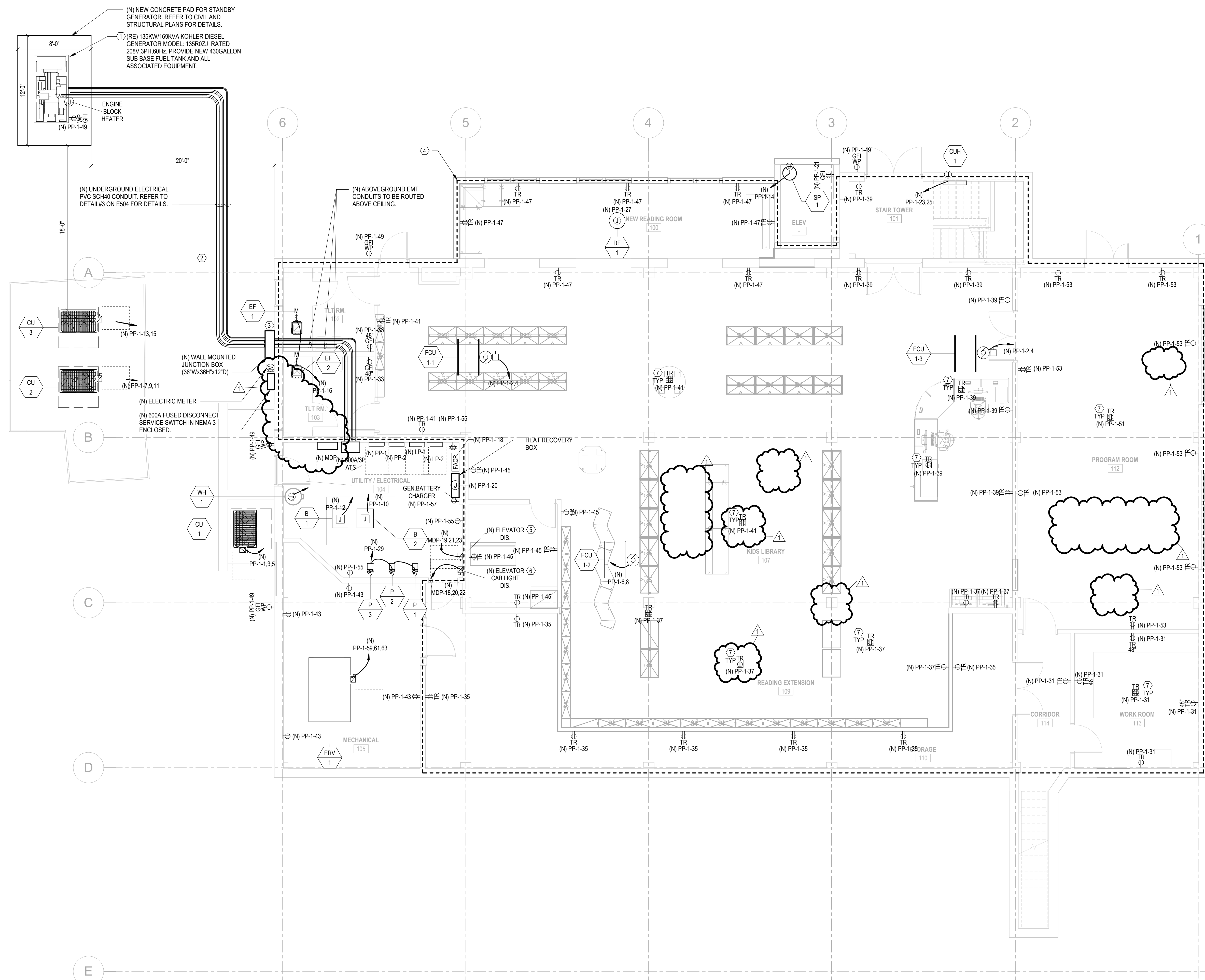
The bidder agrees that this bid shall be good and may not be withdrawn for a period of **60 calendar days** after the scheduled closing time for receiving bids.

Upon receipt of written notice of the acceptance of this bid, Bidder will execute the formal contract attached within 10 days and deliver a Surety Bond or Bonds as required by Article 2 of the Supplemental General Conditions.

The bid security attached is the sum of _____ (\$_____) is to become the property of the Owner in the event the contract and bond are not executed within the time above set forth, as liquidated damages for the delay and additional expense to the Owner caused thereby.

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1 POWER PLAN - LOWER LEVEL
3/16" = 1'-0"



GENERAL SHEET NOTES

- COORDINATE ELECTRICAL WORK AND FINAL LOCATION OF ALL LIGHTING FIXTURES WITH ALL OTHER TRADES. PROVIDE COORDINATED SHOP DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
- ALL RECEPTACLES IN NON-MECHANICAL SPACES SHALL BE TAMPER-RESISTANT.

KEYNOTES

- THE STANDBY GENERATOR IS EXISTING. OWNER-FURNISHED EQUIPMENT TO BE RELOCATED FROM AN EXISTING FACILITY. CONTRACTOR SHALL COORDINATE REMOVAL, TRANSPORTATION, STORAGE, REINSTALLATION, TESTING, AND COMMISSIONING WITH THE OWNER. PROVIDE ALL NEW ANCILLARY EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION, INCLUDING A NEW FUEL STORAGE TANK, UNLESS OTHERWISE NOTED.
- PROVIDE A MINIMUM 12-INCH SEPARATION BETWEEN GENERATOR FEEDER CONDUITS AND GENERATOR/ATS COMMUNICATION CONDUITS WITHIN THE UNDERGROUND DUCT BANK. COMMUNICATION CONDUITS SHALL BE INSTALLED IN A DEDICATED PVC CONDUIT SEPARATE FROM POWER CONDUITS.
- TRANSITION FROM SCHEDULE 40 PVC CONDUIT (BELOW GRADE) TO EMT CONDUIT AT A POINT BELOW GRADE. RSC SHALL PENETRATE THE EXTERIOR WALL AND CONTINUE INTO THE BUILDING. PROVIDE APPROPRIATE TRANSITION FITTINGS AND ENSURE ALL PENETRATIONS ARE SEALED AND WEATHERPROOFED PER NEC AND LOCAL CODE REQUIREMENTS.
- PROVIDE AUTOMATIC RECEPTACLE CONTROL IN ACCORDANCE WITH IECC 2021 SECTION 405.10. 125V, 15A AND 20A RECEPTACLES LOCATED IN OFFICES, CONFERENCE ROOMS, WORKSTATIONS, AND SIMILAR SPACES SHALL BE SPLIT TYPE DUPLEX AND AUTOMATICALLY CONTROLLED. CONTROLLED RECEPTACLES SHALL BE PERMANENTLY IDENTIFIED. CONTROLLED RECEPTACLES SHALL BE CONNECTED TO THE ROOM OCCUPANCY SENSOR CONTROLLING THE LIGHTING, OR OTHER APPROVED AUTOMATIC CONTROL SYSTEM. IN ACCORDANCE WITH IECC 2021 SECTION 405.11, CONTROLS SHALL AUTOMATICALLY DE-ENERGIZE THE CONTROLLED RECEPTACLES WITHIN 20 MINUTES AFTER THE SPACE IS VACANT. PROVIDE PERMANENTLY ENERGIZED RECEPTACLES AS REQUIRED BY THE IECC AND NEC FOR EQUIPMENT REQUIRING CONTINUOUS POWER.
- PROVIDE AND INSTALL ELEVATOR CAB LIGHTING DISCONNECT 120V, 30 AMP, FUSED DISCONNECT, LOCKABLE AND LABELLED WITH ELEVATOR DESIGNATION.
- PROVIDE RECESSED CONCRETE FLOOR BOX, HUBBELL S1CFB OR APPROVED EQUAL, COMPLETE WITH BRASS COVER PLATE, HBL5362C1WHITR HALF-COVERED TAMPER-RESISTANT DUPLEX RECEPTACLES, AND ALL MOUNTING HARDWARE, WIRING DEVICES, AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

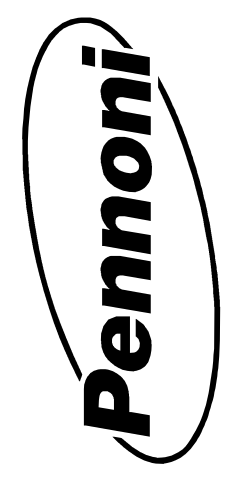
IMPORTANT NOTE

BASE-BID NOTE - NEW PAD-MOUNTED TRANSFORMER

- EXISTING PECO UTILITY POLE, POLE-MOUNTED TRANSFORMER, AND QUAZITE BOX, ARE LOCATED ALONG POWELL ROAD NEAR THE SOUTHWEST CORNER OF THE BUILDING ADJACENT TO THE SOUTHWEST EXIT.
- PROVIDE AND COORDINATE A COMPLETE NEW ELECTRIC SERVICE FROM THE PECO-DESIGNATED PRIMARY SERVICE POINT TO A NEW PECO-OWNED PAD-MOUNTED TRANSFORMER, ASSUMED TO BE LOCATED ADJACENT TO THE EXISTING UTILITY POLE AND QUAZITE BOX.
- PROVIDE A NEW UNDERGROUND SECONDARY SERVICE FROM THE PROPOSED TRANSFORMER TO THE NEW OUTDOOR MAIN SERVICE EQUIPMENT NEAR ELECTRICAL ROOM. FOR BIDDING, ASSUME AN APPROXIMATE UNDERGROUND ROUTE LENGTH OF 105 LINEAR FEET, PLUS REQUIRED RISERS AND TERMINATION SLACK. INCLUDE THE TRANSFORMER PAD, DUCTBANKS, CONDUITS, CONDUCTORS, PULL BOXES, EXCAVATION, BACKFILL, TERMINATIONS, GROUNDING, TESTING, AND SURFACE RESTORATION. FIELD-VERIFY EXISTING CONDITIONS AND COORDINATE THE FINAL TRANSFORMER LOCATION, ROUTING, CONNECTIONS, METERING, AND ENERGIZATION WITH PECO.

DEDUCT-ALTERNATE NOTE - EXISTING POLE-MOUNTED TRANSFORMER

- OMIT THE NEW PAD-MOUNTED TRANSFORMER, TRANSFORMER PAD, AND ASSOCIATED PRIMARY SERVICE EXTENSION. CONNECT THE NEW UNDERGROUND SECONDARY SERVICE AT THE PECO-DESIGNATED SERVICE POINT ASSOCIATED WITH THE EXISTING POLE-MOUNTED TRANSFORMER AND QUAZITE BOX LOCATED ALONG POWELL ROAD NEAR THE SOUTHWEST CORNER OF THE BUILDING.
- EXTEND THE SECONDARY SERVICE TO THE NEW MAIN SERVICE EQUIPMENT IN THE ELECTRICAL ROOM. FOR BIDDING, ASSUME AN APPROXIMATE UNDERGROUND ROUTE LENGTH OF 105 LINEAR FEET, PLUS REQUIRED RISERS AND TERMINATION SLACK. INCLUDE CONDUITS, CONDUCTORS, DUCTBANK, PULL BOXES, EXCAVATION, BACKFILL, TERMINATIONS, GROUNDING, TESTING, CUTOVER, AND SURFACE RESTORATION. FIELD-VERIFY EXISTING CONDITIONS AND COORDINATE THE FINAL CONNECTION POINT AND OUTAGE WITH PECO. ALTERNATE IS SUBJECT TO PECO CONFIRMATION OF EXISTING TRANSFORMER CAPACITY.



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70 POWELL ROAD, SPRINGFIELD, PA 19064

ELECTRICAL POWER PLAN - LOWER LEVEL
SPRINGFIELD TOWNSHIP
50 POWELL ROAD, SPRINGFIELD, PA 19064

NO.	DATE	REVISIONS	BY
1	09/15/2026	ADDENDUM #1	

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PROJECT	SPFLD00611
DATE	08/07/2026
DRAWING SCALE	AS NOTED
DRAWN BY	SJP
APPROVED BY	JPR

ADDENDUM 1
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E200

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E201 POWER PLAN - UPPER LEVEL
3/16" = 1'-0"



GENERAL SHEET NOTES

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KEYNOTES

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- PROVIDE FLOOR POKE-THROUGH ASSEMBLY, HUBBELL S1PT4X4BRS OR APPROVED EQUAL, COMPLETE WITH COVER PLATE, HBL5382C1WHITR HALF-CONTROLLED TAMPER-RESISTANT DUPLEX RECEPTACLES, AND ALL FITTINGS, FIRESTOP COMPONENTS, AND ACCESSORIES REQUIRED FOR A COMPLETE CODE-COMPLIANT INSTALLATION.

Pennoni

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ELECTRICAL POWER PLAN - UPPER LEVEL

SPRINGFIELD TOWNSHIP
50 POWELL ROAD, SPRINGFIELD, PA 19064

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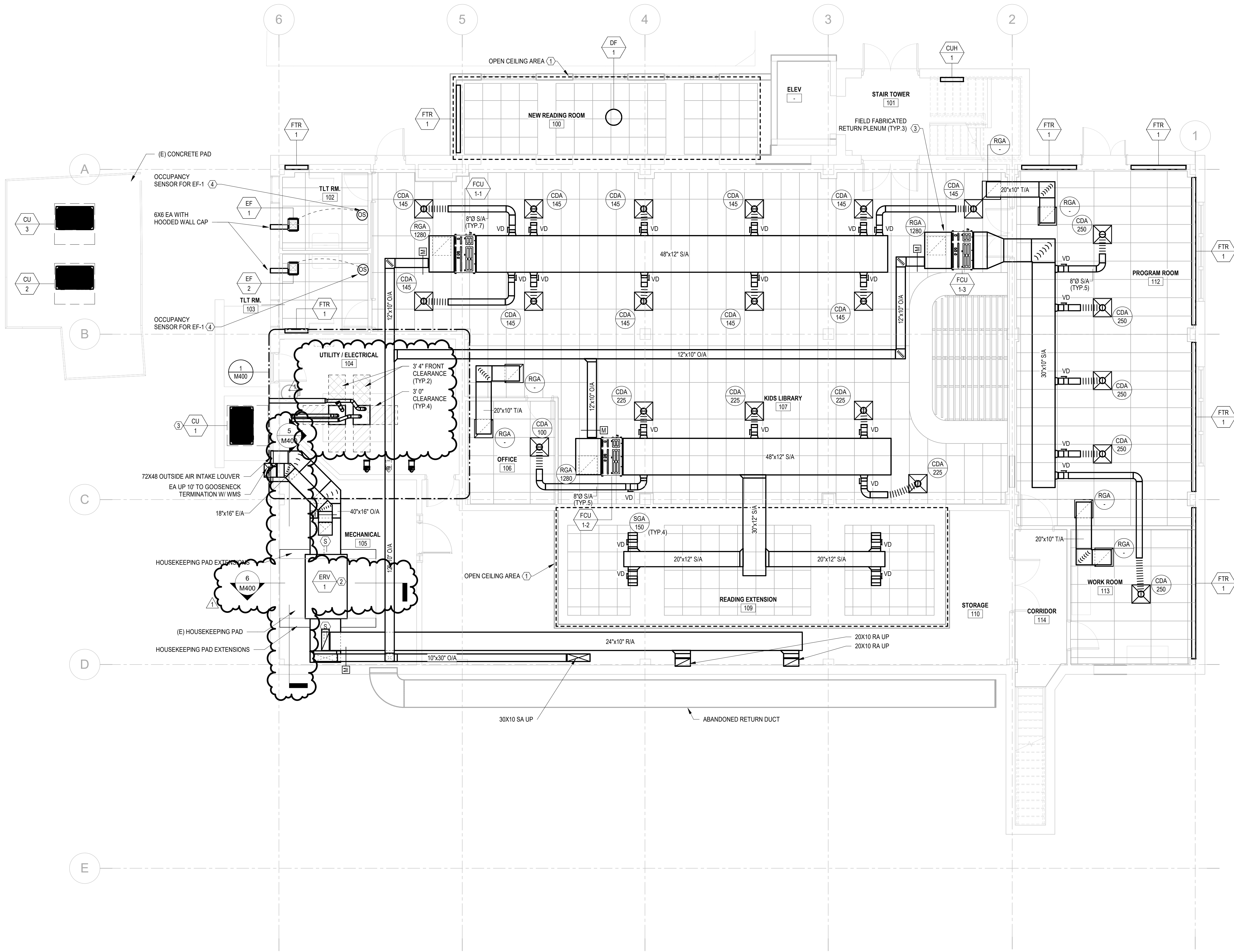
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M200
MECHANICAL DUCTWORK PLAN - LOWER LEVEL
3/16" = 1'-0"



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- PROVIDE VOLUME DAMPER ON ALL BRANCH DUCTWORK TO AIR DEVICES. DAMPER SHALL BE IMMEDIATELY AFTER BRANCH TAKEOFF.
- PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS OF 2-HR. RATED WALLS.
- PROVIDE 3/4" PUMPED CONDENSATE FROM THE AC UNIT TO THE CONDENSATE HEADER FOR EACH AC UNIT UNLESS NOTED OTHERWISE.
- PROVIDE 1" GRAVITY CONDENSATE PIPING FROM THE AC UNIT TO THE CONDENSATE HEADER FOR EACH AC UNIT UNLESS NOTED OTHERWISE.
- CONTRACTOR TO PROVIDE TEMPORARY HEATING AND COOLING DURING CONSTRUCTION TO MAINTAIN OCCUPANT AND EMPLOYEE COMFORT. REQUIREMENTS SHALL BE COORDINATED WITH THE OWNER.

KEYNOTES

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- INSTALL ERV-1 ON EXISTING HOUSEKEEPING PAD. EXTEND PAD TO ACCOMMODATE NEW EQUIPMENT. EQUIPMENT SHALL HAVE MINIMUM 4" TO EDGE OF CONCRETE PAD IN ANY DIRECTION.
- PROVIDE FIELD INSTALLED RETURN PLENUM. PLENUM SHALL BE MINIMUM OF 36" LONG AND ACCOMMODATE OUTSIDE AIR CONNECTION AND DIRECT DUCTED RETURN CONNECTION FROM RGA IN CEILING GRID BELOW.
- PROVIDE OCCUPANCY SENSOR WITH PROTECTIVE LOCKABLE COVER.

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MECHANICAL HVAC PLAN - LOWER LEVEL

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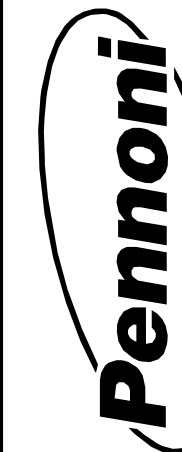
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DISCREPANCIES BEFORE PROCEEDING WITH WORK

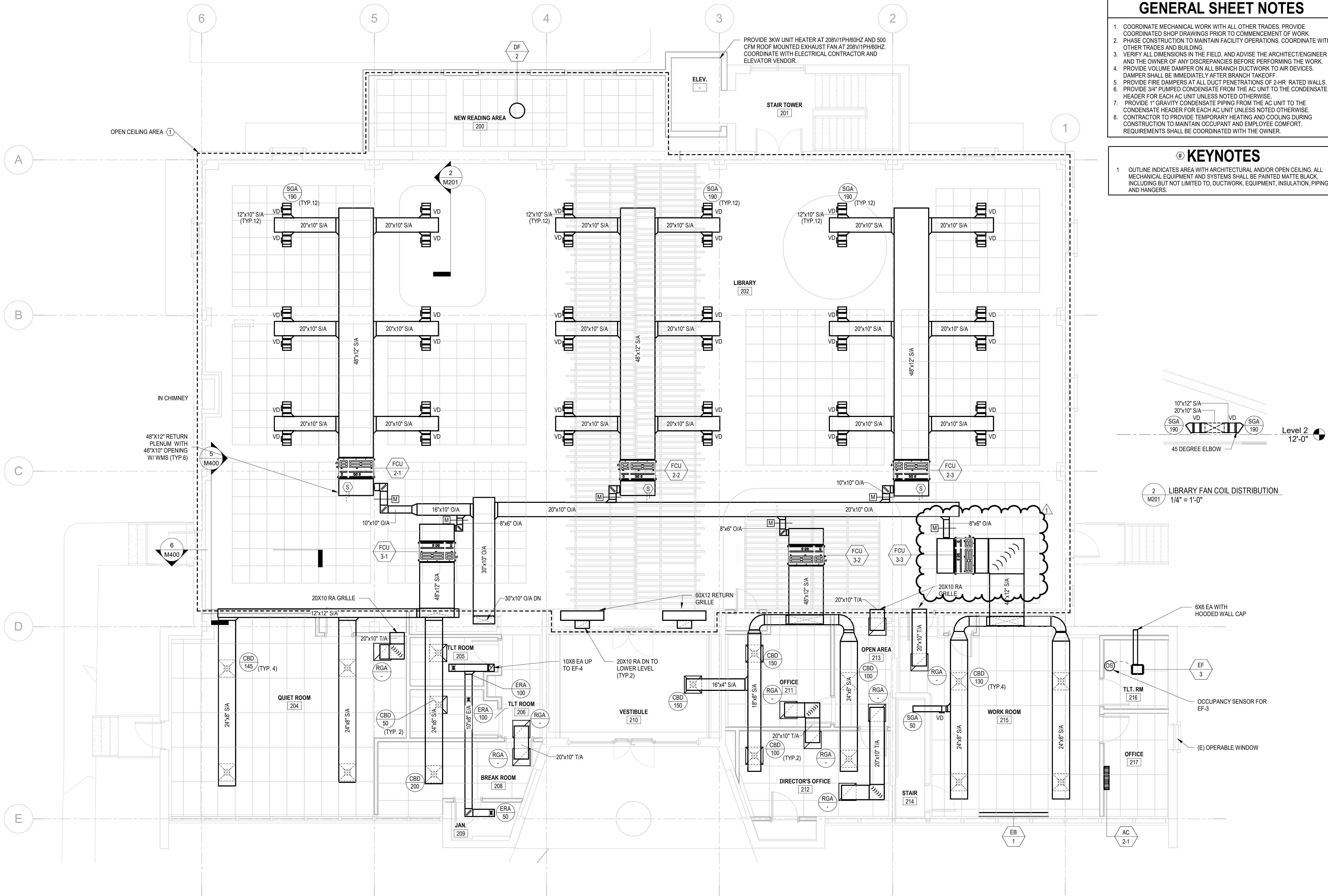


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M201
MECHANICAL DUCTWORK PLAN - UPPER LEVEL
3/16" = 1'-0"

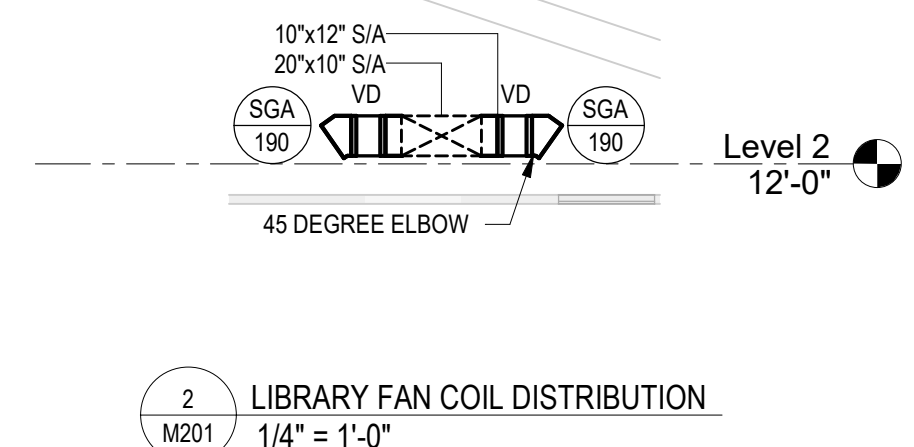


GENERAL SHEET NOTES

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MECHANICAL HVAC PLAN - UPPER LEVEL

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M201



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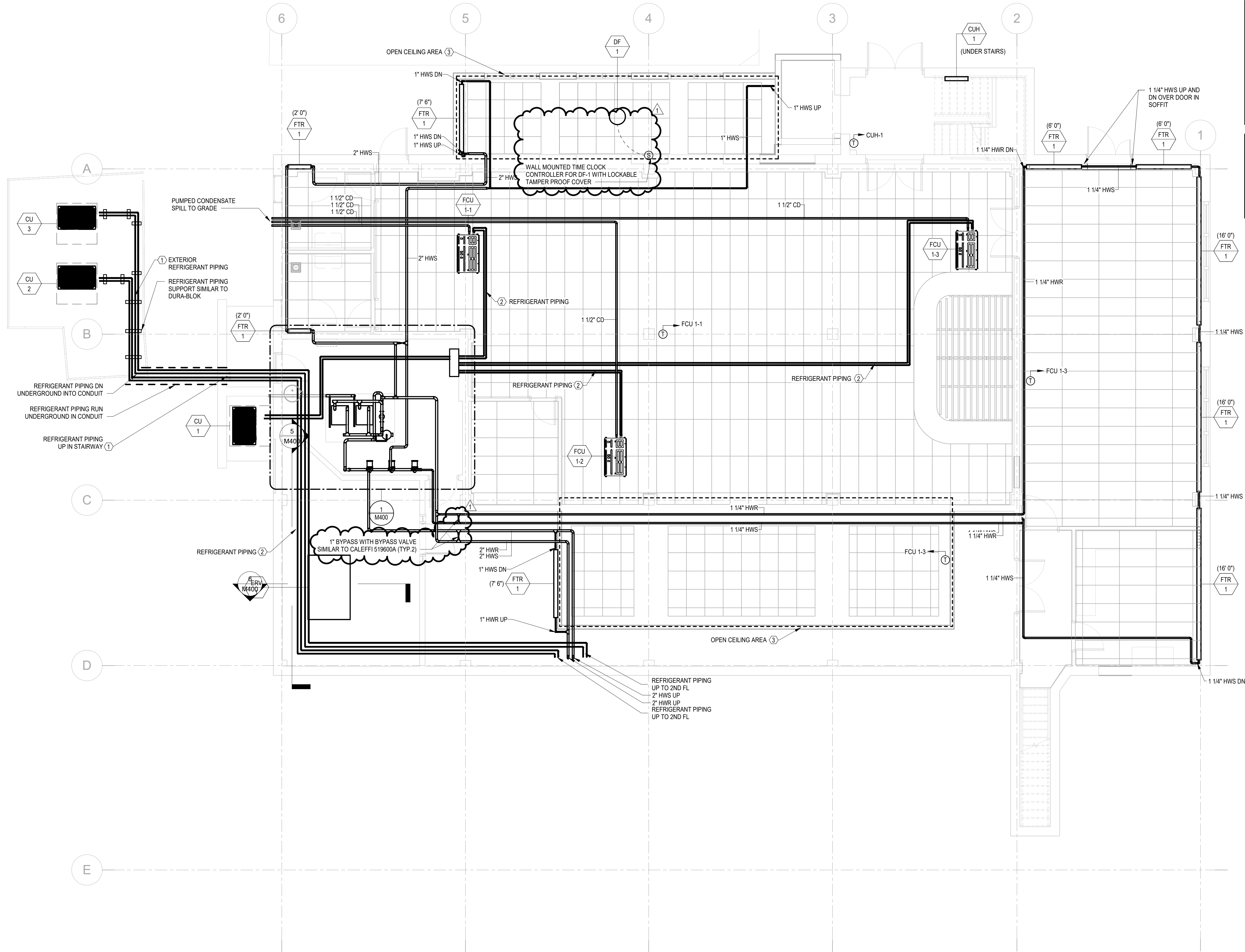
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M300

MECHANICAL PIPING PLAN - LOWER LEVEL

3/16" = 1'-0"

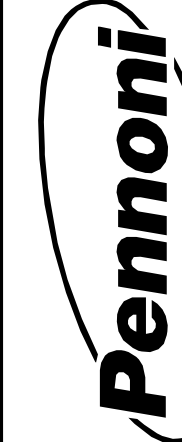


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- PROVIDE 3/4" PUMPED CONDENSATE FROM THE FCU UNIT TO THE CONDENSATE HEADER FOR EACH AC UNIT UNLESS NOTED OTHERWISE.
- PROVIDE 1 1/2" GRAVITY CONDENSATE PIPING FROM THE AC UNIT TO THE CONDENSATE HEADER FOR EACH AC UNIT UNLESS NOTED OTHERWISE.
- CONTRACTOR TO PROVIDE TEMPORARY HEATING AND COOLING DURING CONSTRUCTION TO MAINTAIN OCCUPANT AND EMPLOYEE COMFORT. REQUIREMENTS SHALL BE COORDINATED WITH THE OWNER.

KEYNOTES

- PROVIDE EXTERIOR MOUNTED REFRIGERANT PIPING WITH UV AND WEATHERPROOF COATING ON INSULATION.
- INSTALL REFRIGERANT PIPING PER MANUFACTURER SPECIFICATION, INCLUDING CONNECTION TYPE AND PIPE SUPPORTS.
- OUTLINE INDICATES AREA WITH ARCHITECTURAL AND/OR OPEN CEILING. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE PAINTED BLACK, INCLUDING BUT NOT LIMITED TO, DUCTWORK, EQUIPMENT, INSULATION, PIPING, AND HANGERS.



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DISCREPANCIES

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MECHANICAL PIPING PLAN - LOWER LEVEL

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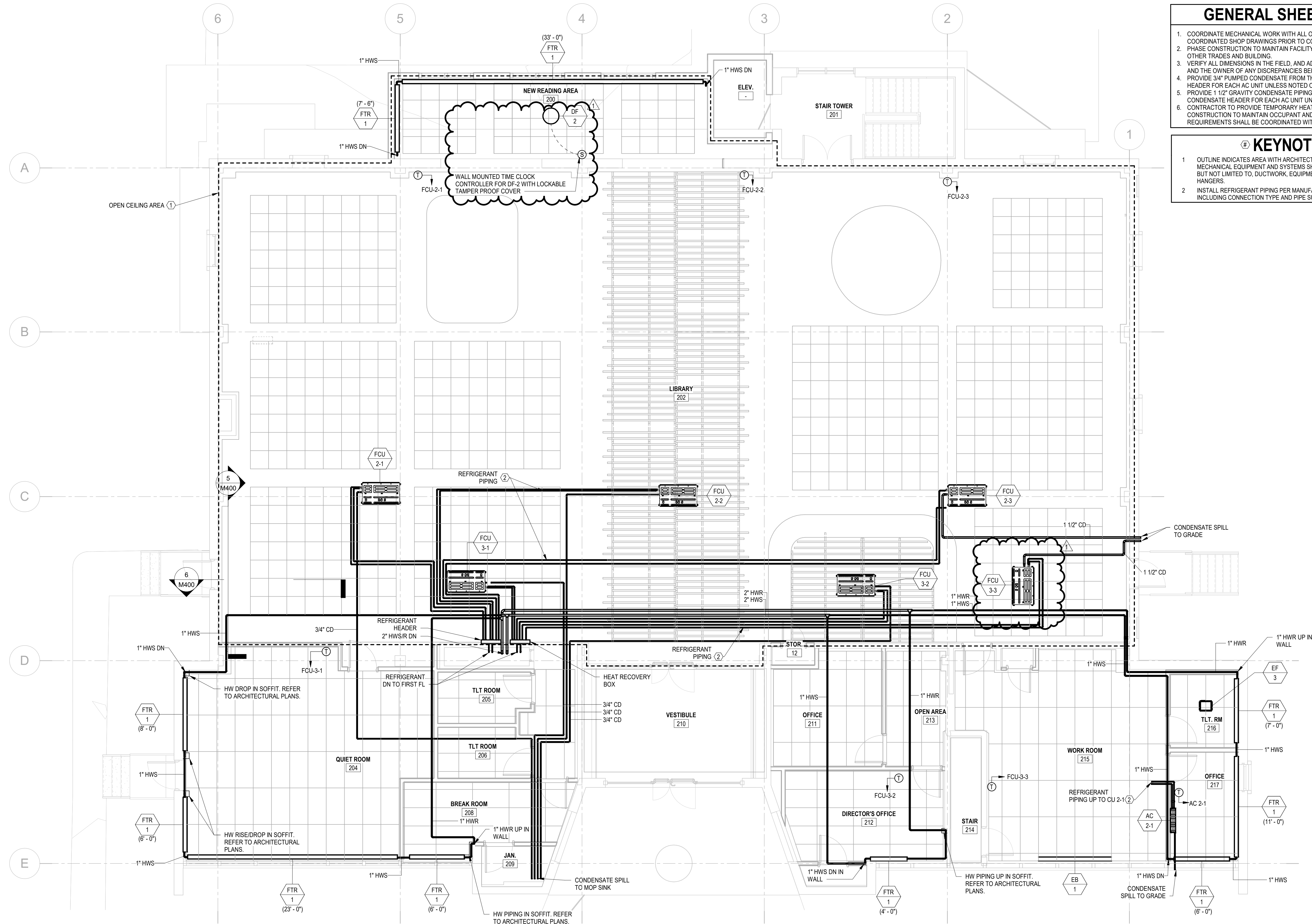
PROJECT	SPFLD00611
DATE	09/15/2026
DRAWING SCALE	AS NOTED
DRAWN BY	TFC
APPROVED BY	RHG

M300

ADDENDUM 1
DATE: 09/15/2026

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1
M301 MECHANICAL PIPING PLAN - UPPER LEVEL
3/16" = 1'-0"



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- PHASE CONSTRUCTION TO MAINTAIN FACILITY OPERATIONS. COORDINATE WITH OTHER TRADES AND BUILDING.
- VERIFY ALL DIMENSIONS IN THE FIELD, AND ADVISE THE ARCHITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
- PROVIDE 3/4" PUMPED CONDENSATE FROM THE FCU UNIT TO THE CONDENSATE HEADER FOR EACH AC UNIT UNLESS NOTED OTHERWISE.
- PROVIDE 1 1/2" GRAVITY CONDENSATE PIPING FROM THE AC UNIT TO THE CONDENSATE HEADER FOR EACH AC UNIT UNLESS NOTED OTHERWISE.
- CONTRACTOR TO PROVIDE TEMPORARY HEATING AND COOLING DURING CONSTRUCTION TO MAINTAIN OCCUPANT AND EMPLOYEE COMFORT. REQUIREMENTS SHALL BE COORDINATED WITH THE OWNER.

KEYNOTES

- OUTLINE INDICATES AREA WITH ARCHITECTURAL AND/OR OPEN CEILING. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE PAINTED BLACK, INCLUDING BUT NOT LIMITED TO, DUCTWORK, EQUIPMENT, INSULATION, PIPING, AND HANGERS.
- INSTALL REFRIGERANT PIPING PER MANUFACTURER SPECIFICATION, INCLUDING CONNECTION TYPE AND PIPE SUPPORTS.

SPFLD00611 - LIBRARY BUILDING RENOVATIONS

70 POWELL ROAD, SPRINGFIELD, PA 19064

MECHANICAL PIPING PLAN - UPPER LEVEL

SPRINGFIELD TOWNSHIP
50 POWELL ROAD, SPRINGFIELD, PA 19064

NO.	DATE	REVISIONS	BY
1	09/15/2026	ADDENDUM #1	

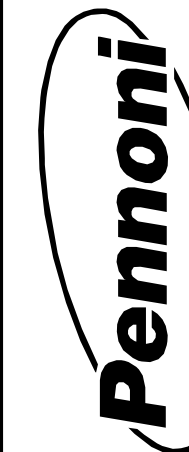
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PROJECT	SPFLD00611
DATE	09/15/2026
DRAWING SCALE	AS NOTED
DRAWN BY	TFC
APPROVED BY	RHG

ADDENDUM 1
DATE: 09/15/2026

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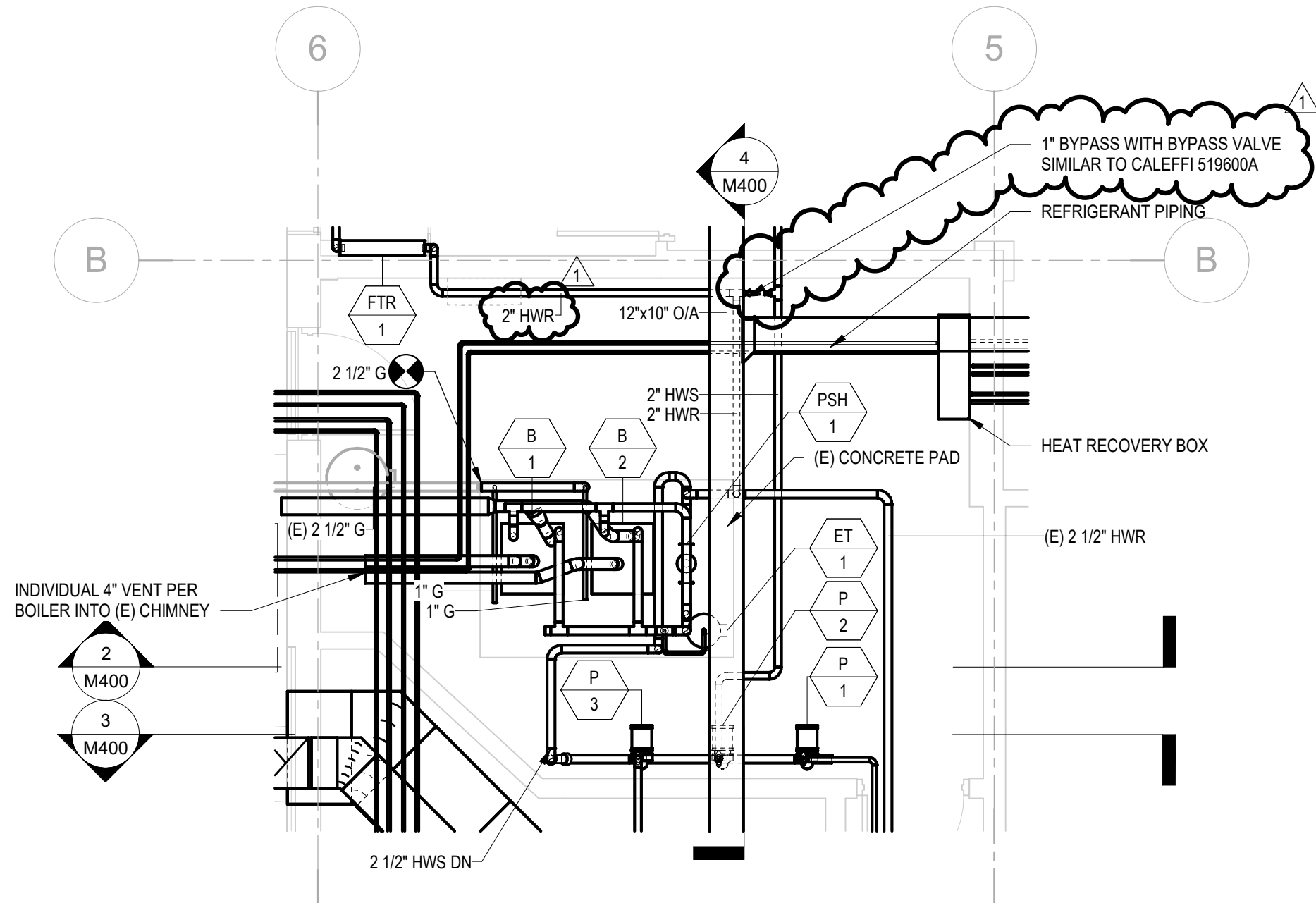
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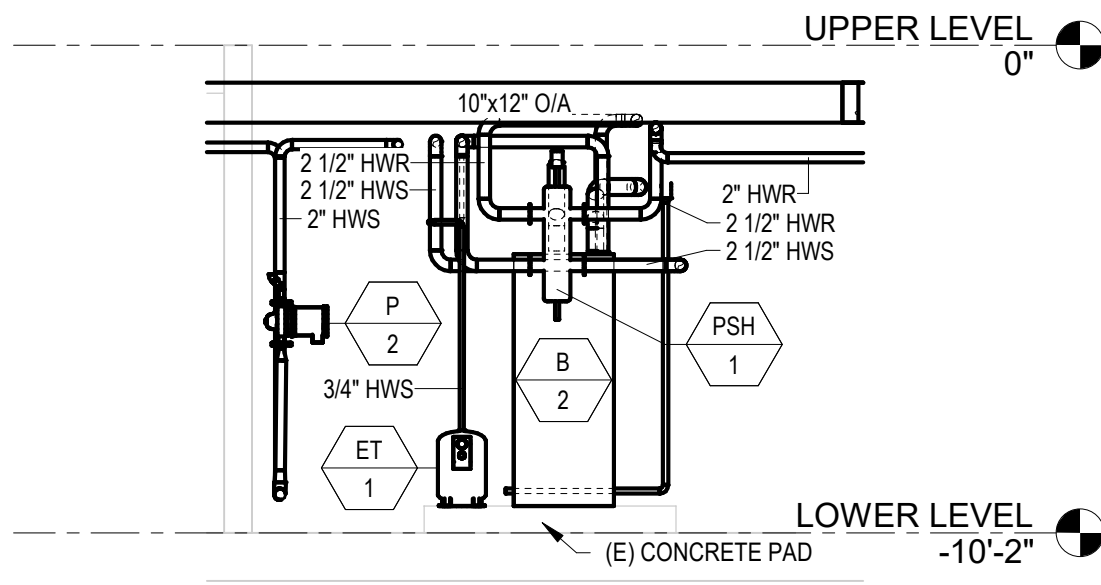
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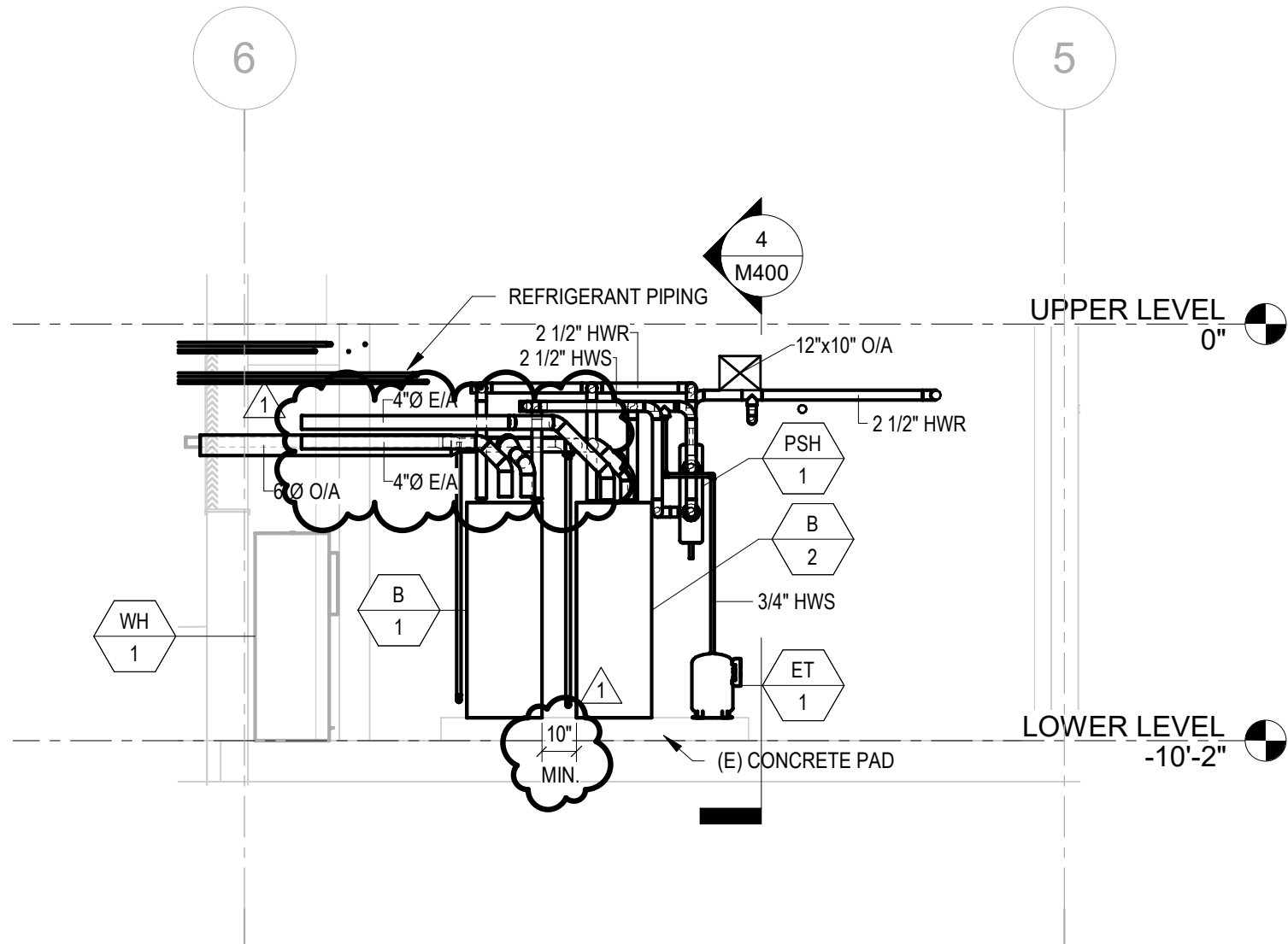
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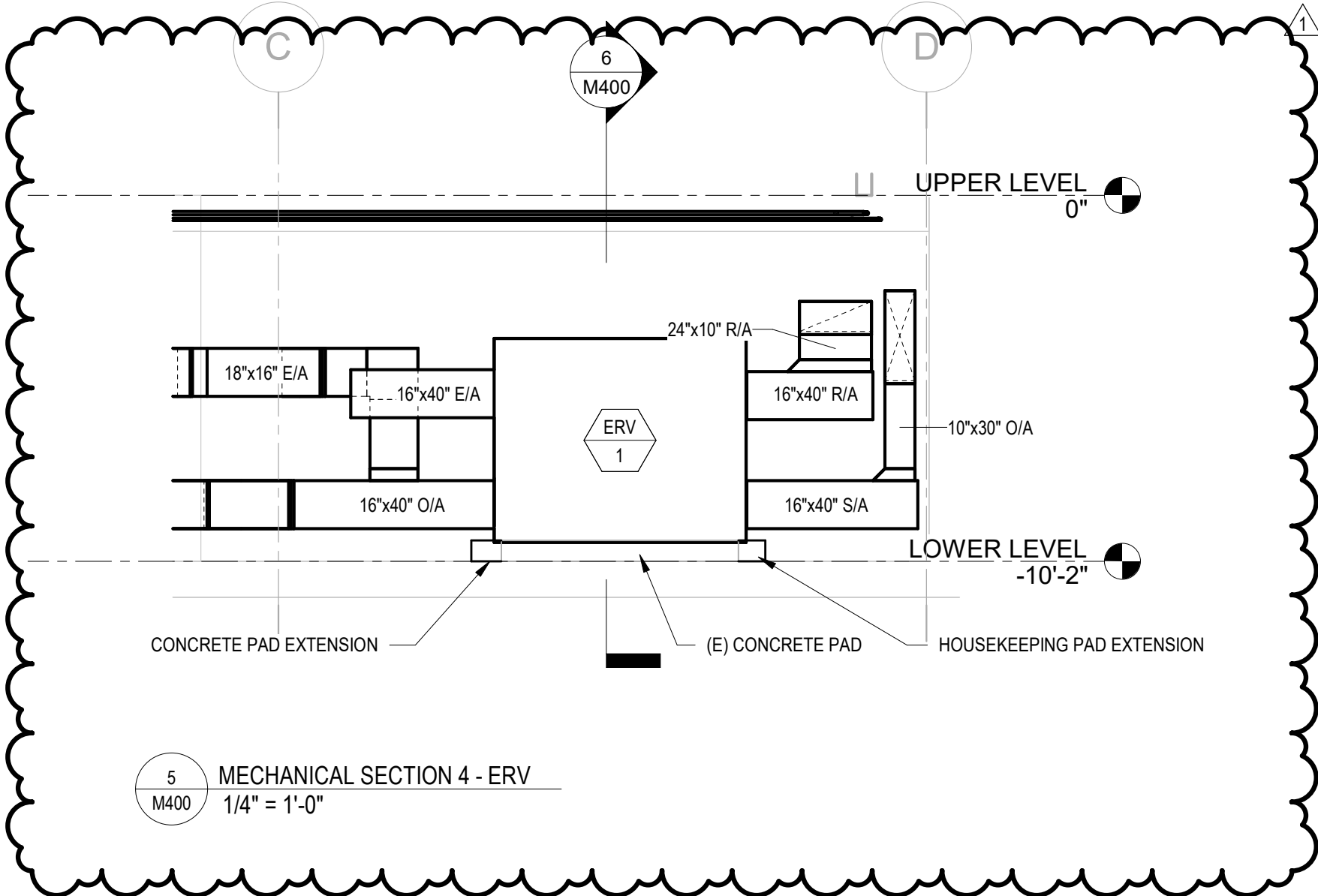
1 MECHANICAL PLAN - ELECTRICAL ROOM ENLARGED
1/4" = 1'-0"



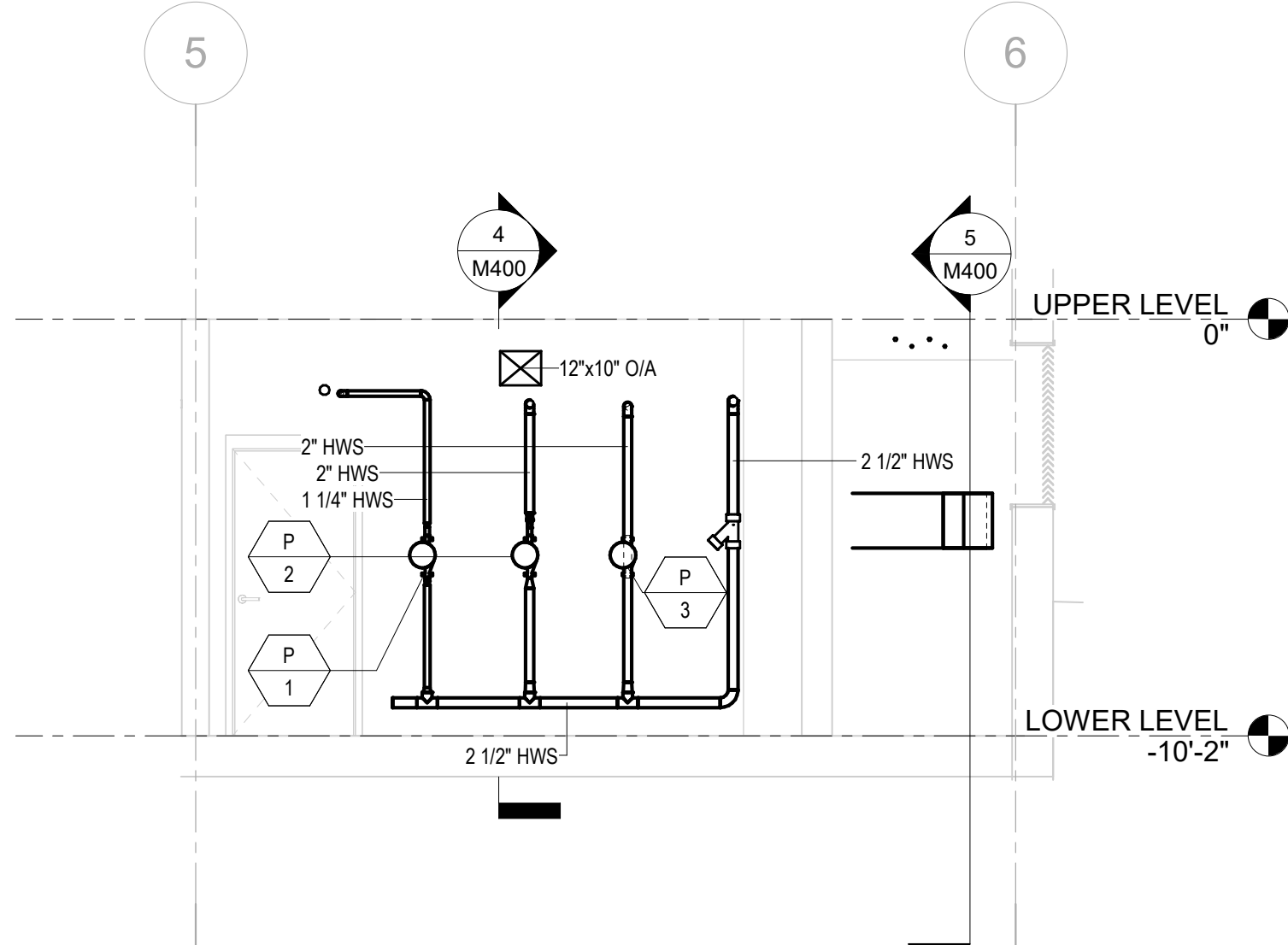
4 MECHANICAL SECTION 3 - ELECTRICAL ROOM
1/4" = 1'-0"



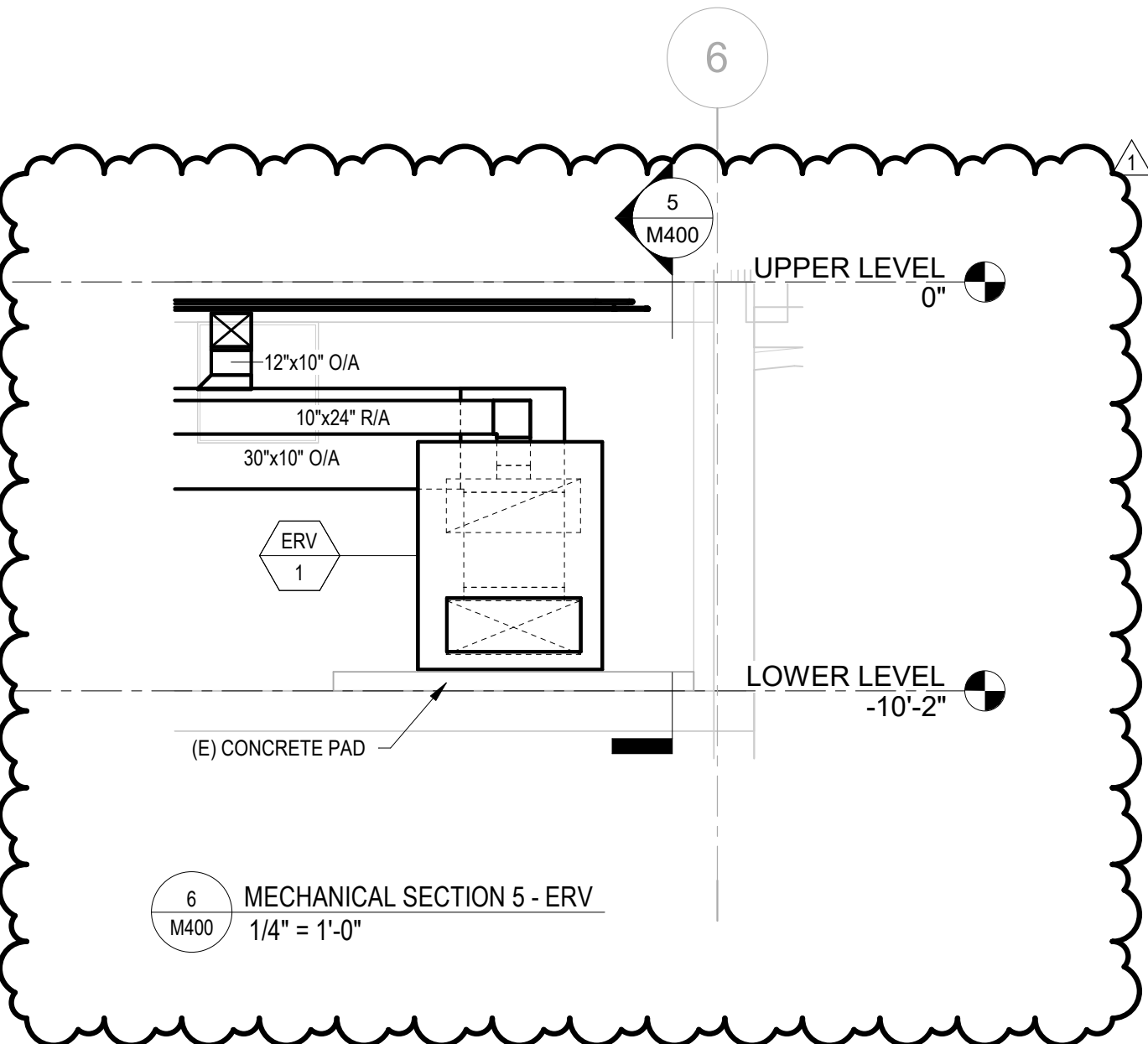
2 MECHANICAL SECTION 1 - ELECTRICAL ROOM
1/4" = 1'-0"



5 MECHANICAL SECTION 4 - ERV
1/4" = 1'-0"



3 MECHANICAL SECTION 2 - ELECTRICAL ROOM
1/4" = 1'-0"



6 MECHANICAL SECTION 5 - ERV
1/4" = 1'-0"

GENERAL SHEET NOTES

- COORDINATE MECHANICAL WORK WITH ALL OTHER TRADES. PROVIDE COORDINATED SHOP DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
- PHASE CONSTRUCTION TO MAINTAIN FACILITY OPERATIONS. COORDINATE WITH OTHER TRADES AND BUILDING.
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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
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BEFORE PROCEEDING WITH WORK

SPFLD00611 - LIBRARY BUILDING RENOVATIONS

70 POWELL ROAD, SPRINGFIELD,
PA 19064

MECHANICAL - PARTIAL PLANS & SECTIONS

SPRINGFIELD TOWNSHIP
50 POWELL ROAD, SPRINGFIELD, PA 19064

NO.	DATE	REVISIONS	BY
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PROJECT. ANY REUSE WITHOUT WRITTEN
VERIFICATION OR ADAPTATION BY PENNONI
ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED
WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY
OR LEGAL EXPOSURE TO PENNONI ASSOCIATE, AND
OWNER SHALL INDEMNIFY AND HOLD HARMLESS
PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES,
LOSSES AND EXPENSES ARISING OUT OF OR
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PROJECT	SPFLD00611
DATE	09/15/2026
DRAWING SCALE	AS NOTED
DRAWN BY	TFC
APPROVED BY	RHG

M400

ADDENDUM 1
DATE: 09/15/2026



NO.	LOCATION	SERVICE	TYPE	LEAD FREE (Y/N)	MATERIAL	MANUFACTURER	MODEL	SIZE	ACCESSORIES
BFP-1	BOILER ROOM	CONDENSATE NEUTRALIZER	RPZ	Y	STAINLESS STEEL	WATTS	994-LF	3/4"	N/A
BFP-2	BOILER ROOM	CONDENSATE NEUTRALIZER	RPZ	Y	STAINLESS STEEL	WATTS	994-LF	3/4"	N/A
BFP-3	BOILER ROOM	MAKEUP	RPZ	Y	STAINLESS STEEL	WATTS	994-LF	3/4"	N/A

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
AND OWNER MUST BE NOTIFIED OF ANY
DISCREPANCIES BEFORE PROCEEDING WITH WORK

SPFLD00611 - LIBRARY BUILDING RENOVATIONS

70 POWELL ROAD, SPRINGFIELD,
PA 19064

MECHANICAL DIAGRAMS

SPRINGFIELD TOWNSHIP
50 POWELL ROAD, SPRINGFIELD, PA 19064

[illegible]

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PROJECT	SPFLD00611
DATE	09/15/2026
DRAWING SCALE	AS NOTED
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HOT WATER BOILER SCHEDULE

UNIT NO.	LOCATION	SERVICE	SYSTEM TYPE	BOILER PERFORMANCE DATA							BURNER PERFORMANCE DATA			ELECTRICAL DATA					OPER. WEIGHT (LBS.)	BASIS OF DESIGN : MANUFACTURER & MODEL NO.	REMARKS
				GAS INPUT (MBH)	NOMINAL CAPACITY (BTU)	GPM	EWT (°F)	LWT (°F)	MAX. PD (FT. HD)	HEAT EXCHANGER DESIGN PRESSURE (PSIG)	GAS GAS DATA			VOLTS	PHASE	HZ	MCA	MOCP			
											MEDIUM	MIN PRESS. (in. W.C.)	MAX PRESS. (in. W.C.)								
B-1	BOILER ROOM	HEATING HW	GAS	399	350	21	180	200	10	150	NG	4	13.5	120	1	60	15	15	300	RIELLO ARRAY SE 399	SEE NOTES
B-2	BOILER ROOM	HEATING HW	GAS	399	350	21	180	200	10	150	NG	4	13.5	120	1	60	15	15	300	RIELLO ARRAY SE 399	SEE NOTES

NOTES:

1. PROVIDE CONDENSATE NEUTRALIZER KIT AND CONDENSATE TRAP PER BOILER.
2. PROVIDE OUTDOOR AIR TEMPERATURE SENSOR AND AUX LOW WATER CUTOFF KIT.
3. PROVIDE EACH BOILER WITH A BLUE DIAMOND MINIBLUE DAMPER. MECHANICAL CONTRACTOR SHALL PROVIDE DAMPER.
4. BOILER SHALL BE PROVIDED WITH AN INTEGRAL CIRCULATION PUMP.

PUMP SCHEDULE

UNIT NO.	LOCATION	SERVICE	SYSTEM TYPE	FLUID	PERFORMANCE DATA						CONSTRUCTION DATA				MOTOR DATA		ELECTRICAL DATA			OPER. UNIT WEIGHT (LBS)	BASIS OF DESIGN : MANUFACTURER & MODEL NO.	REMARKS
					GPM	FLUID TEMP (°F)	REQUIRED NPSH	TDH (FT H2O)	RPM	BHP	TYPE	SUCTION SIZE (in.)	DISCHARGE SIZE (in.)	DESIGN PRESS (PSI)	MHP	START TYPE	VOLTS	PHASE	Hz			
P-1	BOILER ROOM	LOWER LEVEL CONFERENCE	HOT WATER	WATER	10	180	2.6	20	1800	0.12	INLINE	1	1	150	.33	-	120	1	60	50	BELL AND GOSSETT E-90-1AAB	SEE NOTES
P-2	BOILER ROOM	NEW READING HEATERS	HOT WATER	WATER	20	180	5.32	35	2778	0.33	INLINE	1.25	1.25	150	1.5	-	120	1	60	50	BELL AND GOSSETT E-90-1.25AAB	SEE NOTES
P-3	BOILER ROOM	UPPER LEVEL HEATERS	HOT WATER	WATER	20	180	12.5	55	3168	0.59	INLINE	1	1	150	1.5	-	120	1	60	50	BELL AND GOSSETT E-90-1AAB	SEE NOTES

NOTES:

1. NOTE REMOVED IN ADDENDUM 1
2. PUMPS ARE NAME TAG INSTALLED VERTICALLY. PROVIDE WALL MOUNTING KITS.
3. PROVIDE ALL VALVES AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALL PER MANUFACTURER SPECIFICATIONS.

EXPANSION TANK SCHEDULE

UNIT NO.	LOCATION	SERVICE	SYSTEM TYPE	ACTUAL VOLUME (GAL.)	ACCEPT. VOLUME (GAL.)	HEIGHT (FT.- IN.)	DIAMETER (FT.- IN.)	WORKING PRESS. (PSIG)	SYSTEM OPER. TEMP.(°F)	OPER. WEIGHT (LBS.)	BASIS OF DESIGN : MANUFACTURER & MODEL NO.	REMARKS
ET-1	BOILER ROOM	HOT WATER	DIAPHRAM	7.8	5	1'- 7"	1'- 0"	175	180	120	BELL AND GOSSETT SERIES D	SEE NOTES

NOTES:

1. PROVIDE UNIT WITH FACTORY FLOOR MOUNTING KIT.
2. PROVIDE UNIT WITH MINIMUM 12 PSIG PRECHARGE. FIELD ADJUST FOR SYSTEM NEEDS.

ENERGY RECOVERY VENTILATOR SCHEDULE

UNIT No.	LOCATION	SERVICE	SA CFM	SA ESP	EA CFM	EA ESP	COOLING PERFORMANCE				HEATING PERFORMANCE			ELECTRICAL					WEIGHT (LBS.)	BASIS OF DESIGN : MANUFACTURER & MODEL	REMARKS	
							CAPACITY REDUCTION (MBH)	EAT °F	EAT °F	LAT °F	EAT °F	CAPACITY REDUCTION (MBH)	EAT °F	LAT °F	V	PH	HZ	MCA				MOCP
								DB	WB	DB	WB		DB	DB								
ERV-1	HVAC ROOM	VRF SYSTEM	3000	1.5	2450	1.5	120.0	95	75	80	67.6	146.0	10	54	208	3	60	35	60	1600	SWEGON GOLD RX 020	SEE NOTES

NOTES:

1. UNIT SHALL BE PROVIDED WITH VFD.
2. UNIT SHALL BE FLOOR MOUNTED. PROVIDE ALL NECESSARY MANUFACTURER COMPONENTS FOR A COMPLETE INSTALLATION PER MANUFACTURER SPECIFICATIONS.
3. PROVIDE UNIT WITH MOTOR OPERATED DAMPERS ON OUTSIDE AIR INTAKE AND EXHAUST AIR CONNECTION.

AIR COOLED CONDENSING UNIT SCHEDULE

UNIT NO.	LOCATION	SERVICE	NOM. TONS	AMB TEMP DB °F	EER	COMPRESSOR				CONDENSER FAN			ELECTRICAL					OPER. UNIT WEIGHT (LBS)	BASIS OF DESIGN : MANUFACTURER & MODEL NO.	REMARKS
						QTY	RLA	LRA	REFRIG. TYPE	QTY	FLA	HP	V	PH	HZ	MCA	MOCP			
CU-1	EXTERIOR	FCU 1-1/2/3	12	95	11.6	2	22.5+19.3	-	R-32	2	8.4	-	208	3	60	63.6	70	700	LG ZRUM144BT6	SEE NOTES
CU-2	EXTERIOR	FCU-2-1/2/3	20	95	10.9	2	24.2+24	-	R-32	2	5+5	-	208	3	60	72.2	80	800	LG ZRUM241DT6	SEE NOTES
CU-3	EXTERIOR	FCU-3-1/2/3	5	95	13	1	255	-	R-32	2	0.5+0.5	-	208	1	60	32.9	40	300	LG ZRUM060GSS0	SEE NOTES
CU-2-1	ROOF	AC 2-1	1	95	12.8	1	8.3	-	R-32	1	0.4	-	208	1	60	12	15	100	LG KSUAB121A	SEE NOTES

NOTES:

1. PROVIDE EACH UNIT WITH DISCONNECT. REFER TO FLOOR PLANS FOR DISCONNECT SIZING.
2. PROVIDE ANTI-CYCLE TIMER.
3. BASIS OF DESIGN EQUIPMENT AS SPECIFIED OR AN APPROVED EQUAL.
4. PROVIDE VRF SYSTEM WITH A MANUFACTURER AC SMART CONTROLLER.
5. REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE CU 2-1 WITH UNIT MOUNTING STAND.

VRF FAN COIL UNITS

UNIT NUMBER	LOCATION	SERVICE	SYSTEM TYPE	TOTAL CFM	MIN. OA CFM	SUPPLY FAN DATA						COOLING COIL					HEATING COIL				FILTER			OPER. UNIT WEIGHT (LBS.)	BASIS OF DESIGN : MANUFACTURER & MODEL NO.	REMARKS	
						E.S.P. (in. W.G.)	MAX. T.S.P. (in. W.G.)	MCA	V	PH	HZ	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT °F		LAT °F		CAPACITY (MBH)	EAT °F	LAT °F	REFRIGERANT	PRE FILTER SECTION					
														DB	WB	DB	WB					MERV	MAX. P.D. (in. W.G.)				MAX. FACE VEL. (FPM)
FCU-1-1	FIRST FLOOR	CHILDRENS LIBRARY	VRF	1600	320	0.90	-	5.2	208	1	60	54.0	36.4	76	63	55	55	61	55	85	R-32	8	0.1	500	215	LG ZRNU543	
FCU-1-2	FIRST FLOOR	CHILDRENS LIBRARY	VRF	1600	320	0.90	-	5.2	208	1	60	54.0	36.4	76	63	55	55	61	55	85	R-32	8	0.1	500	215	LG ZRNU543	
FCU-1-3	FIRST FLOOR	PROGRAM ROOM	VRF	1600	320	0.90	-	5.2	208	1	60	54.0	36.4	76	63	55	55	61	55	85	R-32	8	0.1	500	215	LG ZRNU543	
FCU-2-1	SECOND FLOOR	MAIN LIBRARY	VRF	2260	450	0.90	-	6.5	208	1	60	76.4	53.5	76	63	55	55	86	55	85	R-32	8	0.1	500	215	LG ZRNU763	
FCU-2-2	SECOND FLOOR	MAIN LIBRARY	VRF	2260	450	0.90	-	6.5	208	1	60	76.4	53.5	76	63	55	55	86	55	85	R-32	8	0.1	500	215	LG ZRNU763	
FCU-2-3	SECOND FLOOR	MAIN LIBRARY	VRF	2260	450	0.90	-	6.5	208	1	60	76.4	53.5	76	63	55	55	86	55	85	R-32	8	0.1	500	215	LG ZRNU763	
FCU-3-1	SECOND FLOOR	QUIET ROOM/OFFICE	VRF	870	175	0.60	-	2.2	208	1	60	17.7	15.7	76	63	55	55	27	55	85	R-32	8	0.1	500	75	LG ZRNU243	
FCU-3-2	SECOND FLOOR	OFFICE	VRF	600	120	0.60	-	2.2	208	1	60	19.1	13.9	76	63	55	55	14	55	85	R-32	8	0.1	500	75	LG ZRNU183	
FCU-3-3	SECOND FLOOR	OFFICE	VRF	560	115	0.60	-	2.2	208	1	60	19.1	13.9	76	63	55	55	14	55	85	R-32	8	0.1	500	75	LG ZRNU183	

NOTES:

1. BALANCE ASSOCIATED OUTSIDE AIR CONNECTION TO VALUES SHOWN.
2. PROVIDE EACH FCU WITH EXTERNAL CONDENSATE PUMP SIMILAR TO BLUE DIAMOND MEGABLUE. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER.
3. PROVIDE ALL FCU UNITS WITH DRIP PAN AND UL LISTED LEAK DETECTION DETECTORS SHALL BE WIRED TO SHUT UNIT DOWN IF CONDENSATE LEVELS EXCEED THE SETPOINT LEVEL.
4. REFER TO THERMISTOR SENSOR SCHEDULE.
5. PROVIDE UNITS WITH MANUFACTURER REFRIGERANT DETECTION SENSOR AND INSTALL PER MANUFACTURER GUIDELINES.

DUCTLESS AC UNIT SCHEDULE

UNIT NO.	LOCATION	SERVICE	SYSTEM TYPE	TOTAL CFM	SUPPLY FAN DATA					COOLING COIL				HEATING COIL				FILTER			OPER. UNIT WEIGHT (LBS.)	BASIS OF DESIGN : MANUFACTURER & MODEL NO.	REMARKS			
					E.S.P. (in. W.G.)	MAX. T.S.P. (in. W.G.)	MCA	V	PH	HZ	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT °F		CAPACITY (MBH)	EAT °F	LAT °F	REFRIGERANT	PRE FILTER SECTION							
													DB	WB					DB	WB				MERV	MAX. P.D. (in. W.G.)	MAX. FACE VEL. (FPM)
AC 2-1	OFFICE 217	OFFICE	WALL	320	-	-	POWERED BY CU 2-1				12.0	-	76	63	55	55	13.6	59	80	R-32	8	-	-	25	LG KNUAB121A	SEE NOTES

NOTES:

1. PROVIDE ALL AC UNITS WITH UL LISTED LEAK DETECTION DETECTORS SHALL BE WIRED TO SHUT UNIT DOWN IF CONDENSATE LEVELS EXCEED THE SETPOINT LEVEL.
2. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR MOUNTING UNITS.
3. PROVIDE AC UNIT WITH EXTERNAL CONDENSATE LIFT KIT SIMILAR TO BLUE DIAMOND MINIBLUE.
4. REFER TO THERMISTOR SENSOR SCHEDULE FOR THERMOSTAT INFORMATION AND SETPOINTS.
5. UNIT SHALL BE CAPABLE OF BEING OPERATED VIA A SMART CONTROLLER.
6. PROVIDE UNIT WITH MANUFACTURER REFRIGERANT DETECTION SENSOR AND INSTALL PER MANUFACTURER GUIDELINES.

HOT WATER BASEBOARD HEATER SCHEDULE

UNIT NO.	HOT WATER					ENCLOSURE DATA			OPER. UNIT WEIGHT (LBS)	BASIS OF DESIGN: MANUFACTURER AND MODEL NO.	REMARKS
	GPM	WATER P.D. (FT. W.G.)	# OF TUBES	EWT °F	LWT °F	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)			
FTR-1	SEE PLANS	-	1	180	160	SEE PLANS	5	18	-	SIGMA WALLFIN SWE-18S 24C075	SEE NOTES

NOTES:

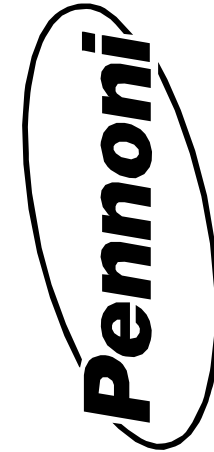
1. REFER TO FLOOR PLANS FOR FIN TUBE LENGTH.
2. PROVIDE BLANK SECTIONS, COVER PLATES, AND TRIM PIECES AS REQUIRED TO RUN THE LENGTH OF THE ASSOCIATED WALL.
3. COORDINATE WITH ARCHITECT FOR FINISH COLOR.
4. PROVIDE EACH FIN TUBE CIRCUIT WITH DANFOSS RA2000 VALVE WITH REMOTE DIAL. REMOTE DIAL SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION FOR ADJUSTMENT.

AIR SEPERATOR SCHEDULE

UNIT NO.	LOCATION	SERVICE	DESIGN FLOW (CFM)	MAX PD (INWG)	WORKING PRESS. (PSIG)	OPER. WEIGHT (LBS.)	BASIS OF DESIGN : MANUFACTURER & MODEL NO.	REMARKS
PSH-1	BOILER ROOM	HW	50	10	150	90	BELL AND GOSSET CRS 2.5	SEE NOTES

NOTES:

1. UNIT SHALL BE SUPPORTED BY PIPE CONNECTIONS. CONTRACTOR TO ENSURE PROPER PIPE SUPPORTS.
2. UNIT SHALL BE CAPABLE OF SEPARATING DIRT AND AIR FROM THE SYSTEM.
3. UNIT SHALL PROVIDE HYDRONIC DECOUPLING BETWEEN PRIMARY AND SECONDARY HOT WATER CIRCUITS.



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SPFLD00611 - LIBRARY BUILDING RENOVATIONS

70 POWELL ROAD, SPRINGFIELD, PA 19064

MECHANICAL SCHEDULES

UNIT NO.	LOCATION	SERVICE	SYSTEM TYPE	PERFORMANCE DATA					CONSTRUCTION DATA		ELECTRICAL DATA					MOTOR DATA		OPER. WEIGHT (LBS.)	BASIS OF DESIGN : MANUFACTURER & MODEL NO.	REMARKS
				CFM	TOTAL SP (IN. WG.)	RPM	BHP	W	CLASS	DRIVE	V	PH	HZ	MCA	MOCp	MHP	FAN TYPE			
EF-1	LOWER LEVEL MENS RR	TOILET EXHAUST	EXHAUST	100	0.50	950	0.04	80	II	DIRECT	120	1	60	1.4	15	-	-	20	GREENHECK SP-B110	SEE NOTES
EF-2	LOWER LEVEL WOMENS RR	TOILET EXHAUST	EXHAUST	100	0.50	950	0.04	80	II	DIRECT	120	1	60	1.4	15	-	-	20	GREENHECK SP-B110	SEE NOTES
EF-3	UPPER LEVEL OFFICE RR	TOILET EXHAUST	EXHAUST	100	0.50	950	0.04	80	II	DIRECT	120	1	60	1.4	15	-	-	20	GREENHECK SP-B110	SEE NOTES
EF-4	ROOF	GENERAL EXHAUST	EXHAUST	250	0.50	1,572	0.06	-	II	DIRECT	120	1	60	1.9	15	0.1	PSC	50	GREENHECK G-080-VG	SEE NOTES
DF-1	LOWER LEVEL	NEW READING AREA	DESTRATIFICATION	400	-	1,500	-	77	II	DIRECT	120	1	60	0.875	15	-	PSC	25	ZOO FANS H50-AC	SEE NOTES
DF-2	UPPER LEVEL	NEW READING AREA	DESTRATIFICATION	400	-	1,500	-	77	II	DIRECT	120	1	60	0.875	15	-	PSC	25	ZOO FANS H50-AC	SEE NOTES

1. PROVIDE EF-4 WITH MOTORIZED ISOLATION DAMPER AND ROOF MOUNTING CURB.
2. DF-1 AND DF-2 TO BE PROVIDED IN BLACK INSLEY MANHOLE COVERS.
3. PROVIDE CEILING MOUNTING KIT AND WALL MOUNTED TIMER FOR DF-1 AND DF-2. TIMER SCHEDULE SHALL BE NORMAL OPERATING HOURS, ADJUSTABLE BY LIBRARY FACILITIES. PROVIDE TIMERS WITH LOCKABLE TAMPER PROOF COVERS.
4. PROVIDE EF-1,2,3 WITH OCCUPANCY SENSOR, BACKDRAFT DAMPER AND SIDEWALL VENT CAP.

UNIT NO.	ELECTRICAL							ENCLOSURE DATA			OPER. UNIT WEIGHT (LBS)	BASIS OF DESIGN: MANUFACTURER AND MODEL NO.	REMARKS
	CAPACITY KW	STEP	V	PH	HZ	MCA	MOCp	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)			
EB-1	2.5	-	208	1	60	12	-	96	-	-	20	MARLEY QMARK 2500 SERIES	SEE NOTES

1. PROVIDE UNIT WITH INTEGRAL ADJUSTABLE THERMOSTAT.
2. PROVIDE LINEAR THERMAL SHUT-OFF IN EVENT OF OVERHEAT.
3. PROVIDE TWO-POLE DISCONNECT SWITCH SECTION.
4. PROVIDE UNIT WITH 8 INCH BLANK WIRING SECTION, INTEGRAL THERMOSTAT AND DISCONNECT SWITCH.

UNIT No.	LOCATION	TYPE	FAN DATA		ELECTRIC COIL				ELECTRICAL DATA					BASIS OF DESIGN		REMARKS
CFM			MHP	KW	CAPACITY (MBH)	EAT °F	LAT °F	V	PH	HZ	MCA	MOCP	MODEL	MANUFACTURER		
CUH-1	LEVEL 1 STAIR	ELECTRIC	500	-	5.0	17.0	40	110	208	1	60	25	30	CU900	Q MARK	SEE NOTES

1. PROVIDE UNIT WITH THERMAL OVERLOAD PROTECTION.
2. REFER TO TEMPERATURE SENSOR SECHEDULE.
3. COORDINATE WITH ARCHITECT FOR FINISH COLOR.

TAG No.	TYPE	FACE SIZE	NECK SIZE	MAX. S.P. in. W.G.	MATERIAL	BASIS OF DESIGN / MANUFACTURER & MODEL No.	REMARKS
CDA	SUPPLY DIFFUSER	24X24	8IN DIAMETER	0.10	STEEL	KRUEGER 145A	SEE NOTES
CDB	SUPPLY DIFFUSER	24X24	12X12	0.10	STEEL	KRUEGER	SEE NOTES
SGA	SUPPLY GRILLE	10X6	8X4	0.10	STEEL	KRUEGER AF80	SEE NOTES
RGA	RETURN GRILLE	24X24	22X22	0.10	STEEL	KRUEGER EGC5	SEE NOTES
ERA	EXHAUST GRILLE	10X8	8X6	0.10	STEEL	KRUEGER S80	SEE NOTES

1. PROVIDE ALL AIR DEVICES WITH FACTORY COLOR OF WHITE, UNLESS NOTED OTHERWISE.
2. PROVIDE EACH AIR DEVICE WITH MOUNTING FRAME TYPE TO MATCH CEILING TYPE WHERE INSTALLED. VERIFY MOUNTING TYPE PRIOR TO ORDERING.
3. COB TO HAVE INTEGRAL VOLUME DAMPER.
4. PROVIDE RETURN GRILLES ON FCU PLENUMS IN FACTORY BLACK FINISH.

SERVICE		SUPPLY AIR	RETURN AIR	TRANSFER AIR	ERV SUPPLY / RELIEF	GENERAL EXHAUST AIR
DUCT SECTION	FROM:					
	TO:					
DUCT SECTION	INDOORS EXPOSED:	X	X	X	X	X
	INDOORS CONCEALED:	X	X	X	X	X
	OUTDOORS:	-	-	-	-	-
PRESSURE CLASSIFICATION:		+/- 2.0" H2O	+/- 2.0" H2O	+/- 2.0" H2O	+/- 2.0" H2O	+/- 2.0" H2O
SMACNA SEAL CLASSIFICATION:		A	A	A	A	A
OUTER WALL MATERIAL:		G90 GALVANIZED STEEL	G90 GALVANIZED STEEL	G90 GALVANIZED STEEL	G90 GALVANIZED STEEL	G90 GALVANIZED STEEL
INNER WALL MATERIAL:		-	-	-	-	-
DUCT AIR TEMPERATURE:		ALL TEMPS.	ALL TEMPS.	ALL TEMPS.	ALL TEMPS.	ALL TEMPS.
EXTERIOR INSULATION	TYPE:	FIBERGLASS (1.0 PCF)	FIBERGLASS (1.0 PCF)	FIBERGLASS (1.0 PCF)	FIBERGLASS (1.0 PCF)	-
	THICKNESS:	(MIN R6 INSTALLED)	(MIN R6 INSTALLED)	(MIN R6 INSTALLED)	(MIN R6 INSTALLED)	-
	VAPOR BARRIER:	FRK	FRK	FRK	FRK	-
INTERNAL LINER	THICKNESS:					
	DENSITY:					
REMARKS:						

1. ALL DUCTWORK SHALL BE MINIMUM 26 GAUGE UNLESS NOTED OTHERWISE.
2. CONSTRUCT DUCTWORK TO SMACNA STANDARDS.

ROOM NAME	SYSTEM	No. OF PEOPLE	AREA (SF.)	SPACE TYPE	MINIMUM AIR CHANGE RATES			MINIMUM CFM			Ez	Vbz	Voz	DESIGN FLOW (Vpz)	ADJ. DESIGN FLOW (Vpz)	OA Fraction (Zpz)	Remarks
					IMC GUIDELINES			IMC GUIDELINES									
					Rp	Ra	EXH	RpPz	RAA	EA							
100 NEW READING ROOM	ERV-1	6	280	Libraries	5	0.12	0	30	34	0	0.8	64	80	400	400	0.20	SEE NOTES
107 KIDS LIBRARY	ERV-1	20	2,300	Libraries	5	0.12	0	100	276	0	0.8	376	470	2500	2500	0.19	SEE NOTES
106 OFFICE	ERV-1	1	110	Office Spaces	5	0.06	0	5	7	0	0.8	12	15	100	100	0.15	SEE NOTES
109 READING EXTENSION	ERV-1	6	535	Libraries	5	0.12	0	30	64	0	0.8	94	118	600	600	0.20	SEE NOTES
112 PROGRAM ROOM	ERV-1	20	780	Conference/meeting	5	0.06	0	100	47	0	0.8	147	184	1000	1000	0.18	SEE NOTES
113 WORKROOM	ERV-1	5	200	Conference/meeting	5	0.06	0	25	12	0	0.8	37	46	250	250	0.19	SEE NOTES
200 NEW READING AREA	ERV-1	5	315	Libraries	5	0.12	0	25	38	0	0.8	63	79	400	400	0.20	SEE NOTES
202 LIBRARY	ERV-1	5	5,300	Libraries	5	0.12	0	25	636	0	0.8	661	826	6380	6380	0.13	SEE NOTES
204 QUIET ROOM	ERV-1	5	570	Libraries	5	0.12	0	25	68	0	0.8	93	117	580	580	0.20	SEE NOTES
208 BREAK ROOM	ERV-1	3	135	Break Rooms	5	0.06	0	15	8	0	0.8	23	29	200	200	0.14	SEE NOTES
205 TOILET ROOM	ERV-1	1	55	Toilets- public	0	0	75	0	0	0	0.8	0	0	50	50	0.00	SEE NOTES
206 TOILET ROOM	ERV-1	1	55	Toilets- public	0	0	75	0	0	75	0.8	0	0	50	50	0.00	SEE NOTES
210 VESTIBULE	ERV-1	0	210	Corridors	0	0.06	0	0	13	0	0.8	13	16	150	150	0.11	SEE NOTES
211 OFFICE	ERV-1	1	150	Office Spaces	5	0.06	0	5	9	0	0.8	14	18	150	150	0.12	SEE NOTES
212 DIRECTORS OFFICE	ERV-1	1	175	Office Spaces	5	0.06	0	5	11	0	0.8	16	19	200	200	0.10	SEE NOTES
213 OPEN AREA	ERV-1	1	90	Office Spaces	5	0.06	0	5	5	0	0.8	10	13	100	100	0.13	SEE NOTES
215 WORKROOM	ERV-1	6	475	Office Spaces	5	0.06	0	30	29	0	0.8	59	73	520	520	0.14	SEE NOTES
114 CORRIDOR	ERV-1	0	120	Corridors	0	0.06	0	0	7	0	0.8	7	9	50	50	0.18	SEE NOTES
102 TOILET ROOM	-	0	90	Toilets- public	0	0	75	0	0	0	0.8	0	0	0	0	-	SEE NOTES
103 TOILET ROOM	-	0	90	Toilets- public	0	0	75	0	0	0	0.8	0	0	0	0	-	SEE NOTES
216 TOILET ROOM	-	0	60	Toilets- private	0	0	25	0	0	25	0.8	0	0	0	0	-	SEE NOTES

1. VENTILATION TABLE IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE, CHAPTER 4 - VENTILATION

	SERVICE	HOT WATER		CONDENSATE DRAIN		REFRIGERANT	
	LOCATION TEMPERATURE	INDOORS		INDOORS		INDOORS / OUTDOORS	
		120-200 F		42-55 F		42-58 F	
PIPE MATERIALS		PIPE SIZE	MATERIAL/JOINTS	PIPE SIZE	MATERIAL/JOINTS	PIPE SIZE	MATERIAL/JOINTS
	PIPE MATERIALS	3/4" - 2"	ASTM B88 HARD-DRAWN TYPE L COPPER/ANSI B16.22 SOLDER 95/5TA SOLDERED	3/4" - 2"	ASTM B88 HARD-DRAWN TYPE L COPPER/ANSI B16.22 SOLDER 95/5TA SOLDERED	3/4" - 2"	PER MANUFACTURER REQUIREMENT
		2 1/2" & UP	ASTM A53 SCH 40 SEAMLESS STEEL/ANSI B16.9 BUTT WELD	2 1/2" & UP	ASTM A53 SCH 40 SEAMLESS STEEL/ANSI B16.9 BUTT WELD	2 1/2" & UP	PER MANUFACTURER REQUIREMENT
		-	-	-	-	-	-
	MAX OPERATING PRESSURE		150 PSIG		PER MANUFACTURER REQUIREMENT		
	SEAMLESS/ERW		SEAMLESS		PER MANUFACTURER REQUIREMENT		
	-		-		-		
PIPE INSULATION		PIPE SIZE	INSULATION THICKNESS	PIPE SIZE	INSULATION THICKNESS	PIPE SIZE	INSULATION THICKNESS
	MINIMUM INSULATION THICKNESS	3/4" - 1"	1 1/2"	3/4" - 1"	1/2"	3/4" - 1 1/2"	1" indoor / 2" outdoor
		1 1/2" - 4"	2"	1 1/4" - 2"	1/2"	2" - 4"	1" indoor / 2" outdoor
		6"	2"	2 1/2" - 4"	1"	6"	1" indoor / 2" outdoor
		8" & UP	2"	6"	-	8" & UP	1" indoor / 2" outdoor
		-	-	8" & UP	-	-	-
	INSULATION TYPE		MOLDED FIBERGLASS		Flexible Elastomeric/ Armaflex		
JACKET	ASJ		ASJ		ASJ		
WEATHERPROOFING	NONE		NONE		NONE		
MAXIMUM K-VALUE		Kmax = 0.27 AT 175 DEG F		Kmax = 0.23 AT 75 DEG F MEAN TEMP		Kmax = 0.27	
PIPE VALVES		PIPE SIZE	ISOLATION/THROTTLE	PIPE SIZE	ISOLATION/THROTTLE	PIPE SIZE	ISOLATION/THROTTLE
	VALVES	3/4" - 2"	BALL VALVE/BALL VALVE	3/4" - 2"	BALL VALVE/BALL VALVE	3/4" - 2"	PER MANUFACTURER REQUIREMENT
		2-1/2" & UP	BUTTERFLY VALVE/BALL VALVE	2-1/2" & UP	BUTTERFLY VALVE/BALL VALVE	2-1/2" & UP	PER MANUFACTURER REQUIREMENT
		-	-	-	-	-	-
REMARKS							

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
AND OWNER MUST BE NOTIFIED OF ANY
DISCREPANCIES BEFORE PROCEEDING WITH WORK

70 POWELL ROAD, SPRINGFIELD,
PA 19064

MECHANICAL SCHEDULES

50 POWELL ROAD, SPRINGFIELD, PA 19064

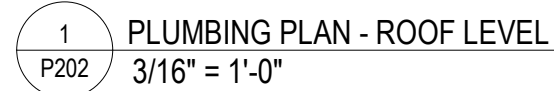
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PROJECT	SPFLD00611
DATE	09/15/2026
DRAWING SCALE	AS NOTED
DRAWN BY	TFC
APPROVED BY	RHG

ADDENDUM 1
DATE: 09/15/2026

M701



1. REFER TO P001 FOR PLUMBING NOTES, LEGENDS AND ABBREVIATIONS.
2. COORDINATE PLUMBING WORK WITH OTHER TRADES.
3. PROVIDE COORDINATED SHOP DRAWINGS PRIOR TO COMMENCEMENT OF WORK. SHOP DRAWINGS SHALL CAPTURE ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION ELEMENTS OF THE AREA.
4. PROVIDE AS BUILT AUTOCAD DRAWINGS TO THE SDF UPON COMPLETION OF WORK.
5. PHASE CONSTRUCTION TO MAINTAIN FACILITY OPERATIONS. COORDINATE WITH OTHER TRADES AND BUILDING.
6. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITH THE WRITTEN INSTRUCTIONS.
7. ALL PENETRATIONS OF FIRE RATED CONSTRUCTION SHALL MAINTAIN THE FIRE RATING OF THE ASSEMBLY AS PER THE INTERNATIONAL BUILDING CODE.
8. ALL SANITARY AND STORM PIPING OF 4" IN SIZE OR GREATER SHALL BE LOCATED AT 18" SLABS UNLESS OTHERWISE NOTED.
9. ALL SANITARY AND STORM PIPING OF 3" IN SIZE OR SMALLER SHALL BE PITCHED AT 1/4" SLOPE UNLESS OTHERWISE NOTED.
10. ALL VALVES AND CLEANOUTS SHALL BE INSTALLED AS ACCESSIBLE WITH ADEQUATELY SIZED ACCESS DOORS.
11. ALL DOMESTIC WATER PIPING SHALL BE INSTALLED WITHIN THE THERMAL ENVELOPE OF THE BUILDING.
12. ALL SANITARY AND STORM PIPING OF 4" IN SIZE OR SMALLER SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 50 FEET.
13. ALL SANITARY AND STORM PIPING OF 5" IN SIZE OR GREATER SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET.
14. INVERT ELEVATIONS ARE BASED ON A FFE OF 780'. COORDINATE WITH SITE AND ARCHITECTURAL PLANS.

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
AND OWNER MUST BE NOTIFIED OF ANY
DISCREPANCIES BEFORE PROCEEDING WITH WORK

SPFLD00611 - LIBRARY BUILDING RENOVATIONS

70 POWELL ROAD, SPRINGFIELD,
PA 19064

PLUMBING PLAN - ROOF LEVEL

SPRINGFIELD TOWNSHIP
50 POWELL ROAD, SPRINGFIELD, PA 19064

[illegible]

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PROJECT	SPFLD00611
DATE	09/15/2026
DRAWING SCALE	AS NOTED
DRAWN BY	 KWJ
APPROVED BY	RHG

P202

ADDENDUM 1
DATE: 09/15/2026

