

SALT LAKE CITY
INTERNATIONAL AIRPORT
SLCDA NATIONAL WEATHER
SERVICE V.A.V. UPDATE

2242 WEST NORTH TEMPLE STREET
SALT LAKE CITY, UT 84116

PROJECT NO. 2023577

MAYOR OF SALT LAKE CITY
ERIN MENDENHALL
EXECUTIVE DIRECTOR OF AIRPORTS
BILL WYATT

DESIGN & CONSTRUCTION
MANAGEMENT DIVISION
SALT LAKE CITY
DEPARTMENT OF AIRPORTS
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SALT LAKE CITY, UT 84114-5550
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Robert S. Bailey
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ASSISTANT DIRECTOR, DESIGN & PROJECT MANAGEMENT

5/7/2024
DATE

STATUS

PROJECT NO.:
2023577
SHEET NO. _____
OF _____ SHEETS

SLCDA

NATIONAL WEATHER SERVICE V.A.V. UPDATE

SALT LAKE CITY DEPARTMENT OF AIRPORTS

2242 WEST NORTH TEMPLE STREET

SALT LAKE CITY, UT, 84116

CONSTRUCTION DOCUMENTS - BID SET

MAY 02, 2024

ABBREVIATIONS

AC	AIR CONDITIONING	KD	KNOCK DOWN
AFM	ABOVE FINISH FLOOR	LAB	LABORATORY
ALT	ALTERNATE	LAV	LAVATORY
ALUM	ALUMINUM	MAINT	MAINTENANCE
APPROX	APPROXIMATE	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MECH	MECHANICAL
BD	BOARD	MEZZ	MEZZANINE
BLDG	BUILDING	MFR	MANUFACTURER
BLKG	BLOCKING	MH	MANHOLE
BO	BOTTOM OF	MIN	MINIMUM
BOT	BOTTOM	MISC	MISCELLANEOUS
BRB	BUCKLING RESTRAINED BRACE	MO	MASONRY OPENING
BRG	BEARING	NIC	NOT IN CONTRACT
CB	CATCH BASIN	NO	NUMBER
CFMF	COLD FORMED METAL FRAMING	NOM	NOMINAL
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED	NTS	NOT TO SCALE
CIP	CAST-IN-PLACE	OC	ON CENTER
CJ	CONTROL JOINT	OD	OUTSIDE DIAMETER
CL	CENTER LINE	OFOI	OWNER FURNISHED OWNER INSTALLED
CLG	CLEARING	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CLR	CLEAR	OH	OVERHEAD
CMU	CONCRETE MASONRY UNIT	OH DR	OVERHEAD DOOR
CO	CLEANOUT, CLEAR OPENING	OPP	OPPOSITE
COL	COLUMN	PERP	PERPENDICULAR
COMM	COMMUNICATION	PL	PLATE, PROPERTY LINE
CONC	CONCRETE	PLAM	PLASTIC LAMINATE
CONF	CONFERENCE	PLBG	PLUMBING
CONST	CONSTRUCT, CONSTRUCTION	PLYWD	PLYWOOD
CONT	CONTINUOUS	PR	PAIR
COORD	COORDINATE	PREFAB	PREFABRICATED
CORR	CORRIDOR	QTY	QUANTITY
CTR	CENTER	RD	ROOF DRAIN
DB	DECK BEARING ELEVATION	RE	REFER TO
DEMO	DEMOLITION	REINF	REINFORCE, REINFORCING
DF	DRINKING FOUNTAIN	REQD	REQUIRED
DIA	DIAMETER	REF	REFRIGERATOR
DIAG	DIAGONAL	RM	ROOM
DIM	DIMENSION	RO	ROUGH OPENING
DN	DOWN	RTU	ROOF TOP UNIT
DR	DOOR	RV	ROOF VENT
DTL	DETAIL	SF	SQUARE FEET
DWG	DRAWING	SIM	SIMILAR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	SPEC	SPECIFICATION
EJ	EXPANSION JOINT	SQ	SQUARE
EL	ELEVATION	STD	STANDARD
ELEC	ELECTRICAL	STL	STEEL
ELEV	ELEVATOR	STRUCT	STRUCTURAL
EQ	EQUAL	SUSP	SUSPENDED
EQUIP	EQUIPMENT	THK	THICK, THICKNESS
EWC	ELECTRICAL WATER COOLER	TO	TOP OF
EXP	EXPANSION	TOB	TOP OF BEAM
EXT	EXTERIOR	TOD	TOP OF DECK
FD	FLOOR DRAIN	TOS	TOP OF SLAB, TOP OF STRUCTURE
FEC	FIRE EXTINGUISHER CABINET	TOW	TOP OF WALL
FIN	FINISH	TYP	TYPICAL
FIN FLR	FINISH FLOOR	UNO	UNLESS NOTED OTHERWISE
FLR	FLOOR	VCT	VINYL COMPOSITION TILE
FT	FOOT, FEET	VERT	VERTICAL
GA	GAUGE, GAGE	VEST	VESTIBULE
GI	GALVANIZED IRON	VTR	VENT THROUGH ROOF
GLULAM	GLUED-LAMINATED TIMBER	W/	WITH
GYP BD	GYP SUM BOARD	W/O	WITHOUT
HVAC	HEATING, VENTILATION, AIR CONDITIONING	WC	WATER CLOSET
ID	INSIDE DIAMETER	WD	WOOD
INT	INTERIOR	W	WIDE FLANGE
ISO	ISOMETRIC	WH	WATER HEATER
JAN	JANITOR	WWF	WELDED WIRE FABRIC
JT	JOINT	XFMR	TRANSFORMER

GENERAL SYMBOLS

SEE PLUMBING, MECHANICAL AND ELECTRICAL FOR DISCIPLINE SYMBOLS

A 1 01 MHTN SHEET NUMBER
Sheet Number Sequence
Sheet Type
Discipline

1 2 GRID REFERENCE MARK
A1 Starts at lower left corner Number Horizontal Letters Vertical

ACT1 CEILING TYPE TAG

10'-0" CEILING TAG

EL: 100'-0" SPOT ELEVATION

LEVEL ELEVATION VERTICAL ELEVATION

N NORTH ARROW
PLAN NORTH
TRUE NORTH

1 DRAWING REVISION
1 REVISION NUMBER

ROOM ROOM NAME
101 ROOM NUMBER
150 SF ROOM VOLUME / AREA

? KEYED NOTES

100 CASEWORK TYPE
36 DEPTH
100 HEIGHT
36 WIDTH

1 WINDOW TYPE

100 SIGNAGE TYPE

MATERIALS

CONCRETE	EIFS	STEEL	MASONRY BRICK	GYP SUM BOARD	WOOD FRAMING	BLOCKING	EARTH
GRAVEL	PRECAST	STONE	CONCRETE MASONRY UNIT	HARDWOOD	BATT INSULATION	RIGID/SEMI-SAFING INSULATION	

GENERAL NOTES

- PRIOR TO SUBMITTING A BID OR PROCEEDING WITH ANY PORTION OF THE WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & EXISTING CONDITIONS AT THE SITE AND VERIFY THAT DIMENSIONS AND FINISHES COMPLY WITH THE CONTRACT DOCUMENTS. IF ANY VARIANCE IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE AIRPORT ARCHITECT IMMEDIATELY AND IN WRITING. THE ABSENCE OF SUCH NOTIFICATION WILL BE CONSTRUED AS AN ACCEPTANCE OF THE PRIOR WORK AND LATER CLAIMS OF DEFECTS WILL NOT BE CONSIDERED.
- CUT AND PATCH EXISTING BUILDING CONSTRUCTION AS REQUIRED. CUTTING AND DRILLING OF STRUCTURAL MEMBERS NOT DETAILED REQUIRES THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER.
- WHENEVER QUESTIONS ARISE OR CONDITIONS ARE ENCOUNTERED WHICH ARE NOT COVERED BY OR ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS, CONSULT WITH THE ARCHITECT PRIOR TO TAKING ANY FURTHER ACTION.
- ALL DEMOLISHED OR REMOVED EXISTING MATERIAL SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
- EXIST. MATERIAL NOTED TO BE RETURNED TO THE OWNER SHALL BE REMOVED FROM THE SITE BY THE OWNER. CONTRACTOR SHALL COORDINATE WITH THE OWNER.
- ALL CONSTRUCTION ACTIVITY IS TO BE CONTAINED WITHIN CONSTRUCTION AREA. CONTRACTOR SHALL PROTECT ALL EXISTING SURFACES, EQUIPMENT, ETC. DURING DEMOLITION AND CONSTRUCTION. AFTER WORK OF THIS CONTRACT, AND PER PHASE (OR DAILY) AS APPLIES, THE CONTRACTOR SHALL CLEAN AND RETURN TO ACCEPTABLE CONDITION EXISTING AREAS EFFECTED BY THE WORK TO THE OWNER'S SATISFACTION.
- CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGE TO ADJOINING SURFACES OR AREAS NOT PART OF THIS CONTRACT AT NO COST TO THE OWNER. MATCH EXISTING SURFACE FINISH OR MATERIAL.
- MAINTAIN A SAFE AND CLEAR ACCESS WAY AT ALL TIMES THRU CORRIDOR AREAS AND MAIN TRAFFIC AREAS.
- DEBRIS SHALL BE REMOVED FROM SITE DAILY OR AS DIRECTED BY THE PROJECT MANAGER. ALL DEMOLISHED OR REMOVED EXISTING MATERIAL SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
- SUPPORT AND PROTECT EXISTING CEILINGS, SIGNAGE, FIRE ALARM SYSTEMS, SOUND AND INTERCOM SYSTEMS DURING CONSTRUCTION, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL ALWAYS GOVERN. CONTRACTORS REQUIRING DIMENSIONS NOT NOTED SHALL CONTACT THE PROJECT MANAGER FOR SUCH INFORMATION PRIOR TO PROCEEDING WITH THE WORK.
- ASBESTOS TESTING SHALL BE DONE ON ALL BUILDING FINISHES WHERE IMPACTED BY DEMO AND REMODEL. INCLUDING BUT NOT LIMITED TO: CEILING TILES, RESILIENT TILE FLOORING, PIPE INSULATION, ETC., CONTRACTOR TO PERFORM TESTING AND REPORT RESULTS TO OWNER.
- COORDINATE OPTIMAL WORKING HOURS AND AREA PHASING WITH OWNER DUE TO 24/7 OPERATIONAL NATURE OF THIS FACILITY.

PROJECT DATA

CIVIL RIGHTS
ADA Standards for Accessible Design, 2010

APPLICABLE CODES
International Building Code, including Appendix I (IBC), 2021 ed.
International Mechanical Code (IMC), 2021 ed.
International Plumbing Code (IPC), 2021 ed.
National Electrical Code (NEC), 2020 ed.
International Energy Conservation Code (IECC), 2021 ed.,
International Existing Building Code (IEBC), 2021 ed., Prescriptive/Work Area/Performance
International Fire Code (IFC), 2021 ed.
International Fuel Gas Code (IFGC), 2021 ed.

CRITERIA

Occupancy Classification	B
Separation of Occupancies	Non-separated B/S-1 No separation required
Construction Type	V-B
Sprinkled	No
Building Area/Height	
Allowable Height (Stories/Feet)	2 / 40 ft Allowable Height (Stories/Feet) 2 / 40 ft
Actual Building Height (Stories/Feet)	1 / 20 ft
Building Area (insert floors as needed)	
1st Floor	13,044 s.f.
2nd Floor	N/A
Total	13,044 s.f.

Allowable Building Area Calculation
Not Applicable (Existing building with no increase in square footage and no change in Occupancy)
Building Perimeter (P) x
Building Perimeter on 20' min Public Way (F) x
Width of Public Way or Open Space (W) x
Weighted Average $W = (L1xw1 + L2xw2 + L3xw3...) / F =$
Frontage Increase $If = (F/P - 0.25)W/30 = (.75 \text{ is the maximum value})$

Single Occupancy, One Story
At = 9,000 s.f.
NS = 9,000 s.f.
Allowable Area Aa = 15,039 s.f. = At + (NS x If) = (.61) - 9,000 + (9,000 x .67)
If = (F/P - 0.25)W/30 = (448/523 - 0.25) 33/30 = (.61)x1.1 = .67
W = (76'x12' + 42'x80' + 34'x160' + 120'x189' + 76'x65' + 42'x100' + 50'x90' + 100'x110') / 448' = 100

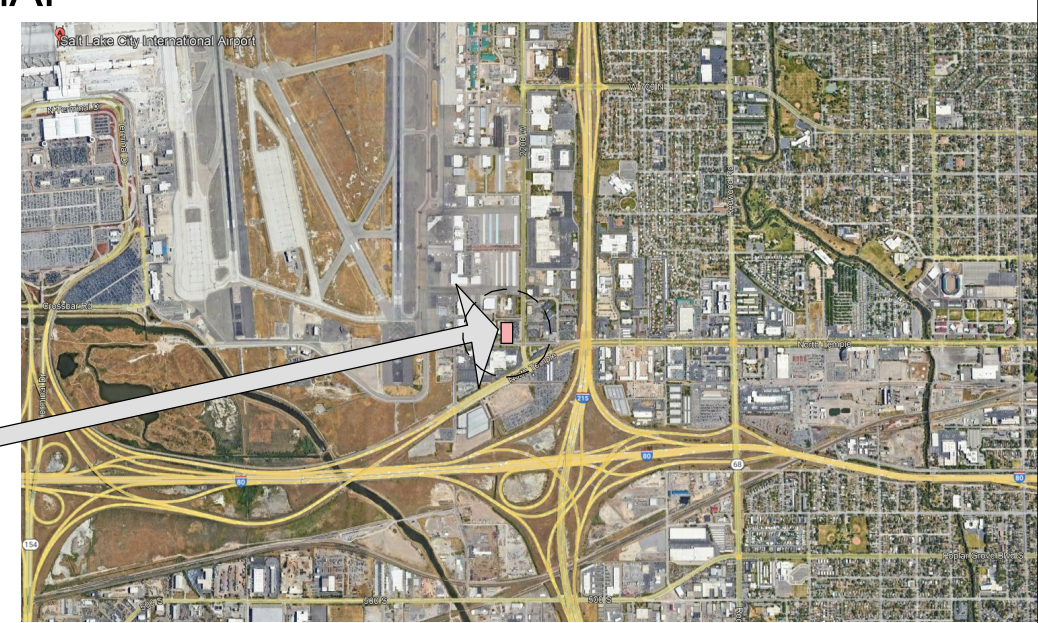
SHEET INDEX

GENERAL
G000 COVER SHEET V.A.V.

ARCHITECTURAL
A100 FIRST FLOOR PLAN V.A.V.

MECHANICAL
MD101 MECHANICAL DEMOLITION FLOOR PLAN
M101 MECHANICAL FLOOR PLAN
MPD101 MECHANICAL PIPING DEMOLITION PLAN
MP101 MECHANICAL PIPING FLOOR PLAN
M501 MECHANICAL SCHEDULES & DETAILS
M502 MECHANICAL SCHEDULES & DETAILS

VICINITY MAP



APPROVALS

APPROVERS NAME, TITLE	DATE:
APPROVERS NAME, TITLE	DATE:
APPROVERS NAME, TITLE	DATE:

CONSULTANTS

ARCHITECTURE	MECHANICAL				
280 South 400 West Suite 250 Salt Lake City, UT, 84101 PHONE: 801-595-6700	Olsen & Peterson 14 East 2700 South Salt Lake City, UT 84115 PHONE: 801.486.4646				

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 2242 WEST NORTH TEMPLE STREET
 SALT LAKE CITY, UT, 84116

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MHTN PROJECT NO 2023577
VIEW AND PRINT THIS DRAWING IN COLOR
Original drawing is 24 x 36. Do not scale contents of this drawing.

ISSUED:	NO.	DATE	DESCRIPTION
	01	Nov 03, 2023	50% REVIEW SET
	02	Nov 17, 2023	80% REVIEW SET
	03	Dec 21, 2023	100% REVIEW SET
	04	Jan 5, 2024	CONSTRUCTION DOCUMENTS

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT
LAST REVISION DATE

NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS - BID SET
MAY 02, 2024

SHEET NAME
COVER SHEET V.A.V.

SHEET NUMBER
G000

SHEET NOTES

1. Patch and repaint existing wall to match existing where existing humidifiers are demolished, both sides of wall, See Mechanical
2. Terminate electrical wires and cover with blank plate at all removed or relocated thermostat locations, see Mechanical
3. Where ceiling grids and tiles are removed for Mechanical Systems replacement, contractor to repair grid as necessary to match existing. Replacement acoustic tiles can be pulled as necessary from room 107 Multi Purpose Room (Primarily) and the south 5' portion of room 120A Office ceiling (Secondarily) due to their removal in T.I. contract. Please note the limited quantity of these replacement tiles and adjust work as necessary.

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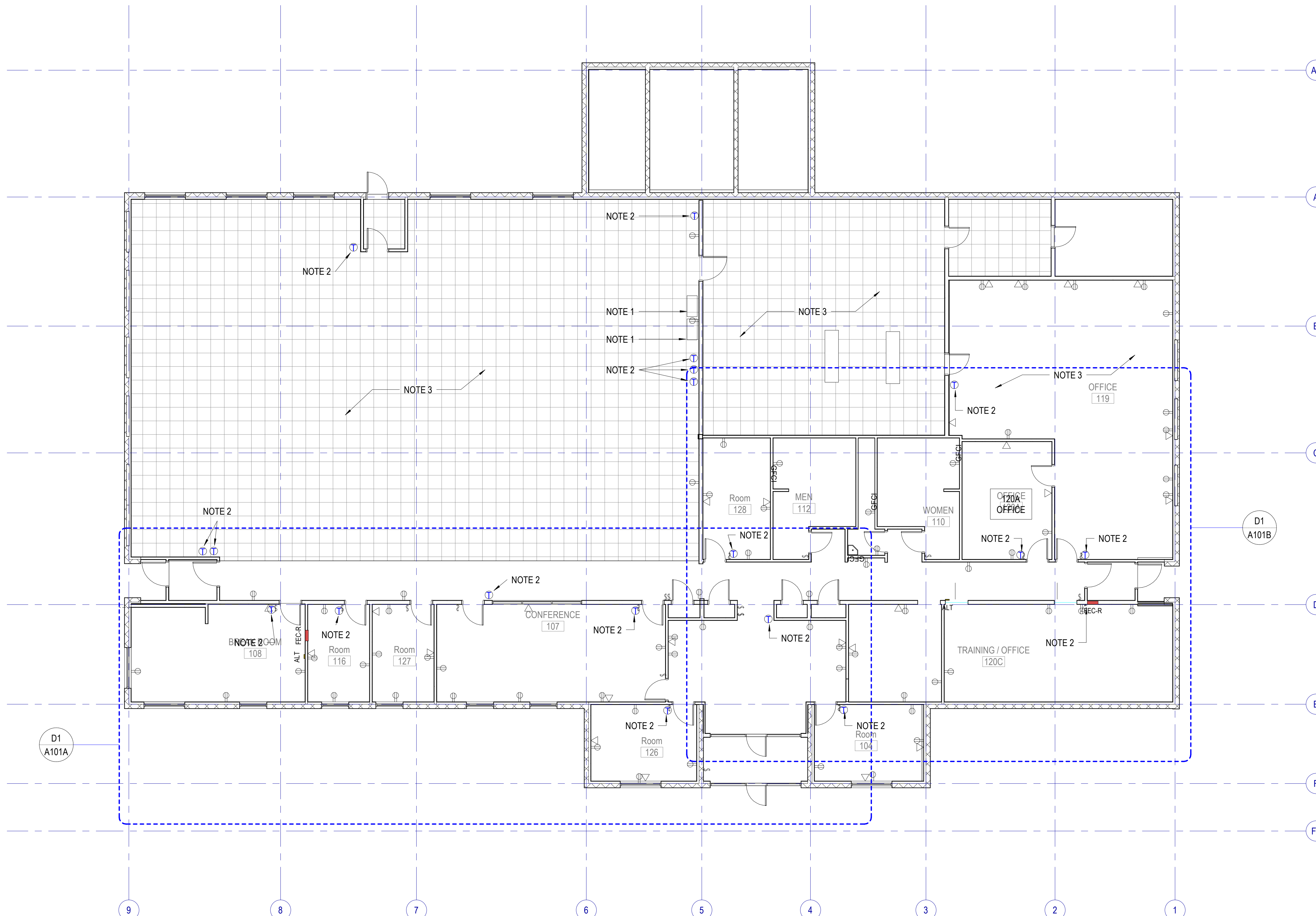
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SHEET NAME
FIRST FLOOR PLAN V.A.V.

SHEET NUMBER
A100



1 FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"

Autodesk Docs://2023573 SLCIA Airport NWSF T1/2023573 SLCIA Airport NWSF T1 Existing.rvt
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REFERENCE NOTES

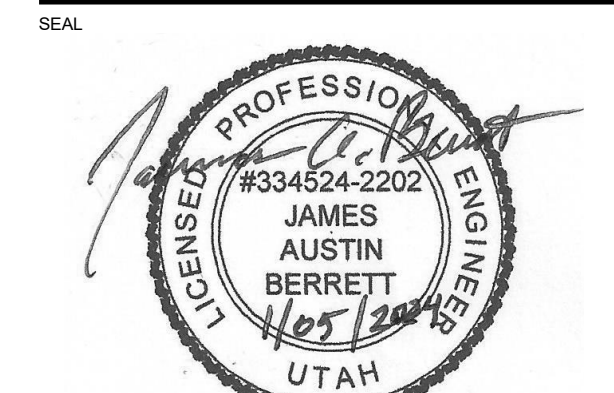
- REMOVE EXISTING FAN POWERED VAV RE-HEAT BOX, CONTROLS, SUPPORTS & FLEX CONNECTIONS COMPLETE. DISCONNECT 277/160 FAN POWER. COORDINATE WITH NEW WORK.
- REMOVE EXISTING VAV RE-HEAT BOX, CONTROLS, SUPPORTS & FLEX CONNECTIONS COMPLETE. COORDINATE WITH NEW WORK.
- REMOVE EXISTING WALL MOUNTED PNEUMATIC HEATING/COOLING THERMOSTAT & RELATED PNEUMATIC LINES COMPLETE. (TYPICAL) COORDINATE WITH T.I. PROJECT.
- REMOVE EXISTING WALL MOUNTED PNEUMATIC HEATING THERMOSTAT & RELATED PNEUMATIC LINES COMPLETE. (TYPICAL)
- EXISTING UNIT HEATER TO REMAIN.
- EXISTING CABINET UNIT HEATER TO REMAIN.
- DISABLE CONTROL TO EXISTING CEILING CABINET HEATER.
- EXISTING ROOF EXHAUST FAN TO REMAIN.
- EXISTING IN-LINE FAN TO REMAIN.
- EXISTING GRAC UNITS & ALL RELATED ITEMS TO REMAIN.
- EXISTING AIR HANDLERS, CONTROLS & RELATED ITEMS TO REMAIN.
- EXISTING BOILER TO REMAIN. REMOVE EXISTING 2" 3-WAY PNEUMATIC VALVE. COORDINATE WITH NEW WORK.
- EXISTING PUMPS, CONTROLS & RELATED ITEMS TO REMAIN.
- REMOVE EXISTING ATC COMPRESSOR, FILTER DRYER, ELECTRICAL, PNEUMATIC PIPING & CONTROLS COMPLETE. CONTRACTOR SHALL REMOVE THE COMPRESSOR IN GOOD WORKING ORDER & TURN OVER TO THE OWNER. SLCA WILL PICK UP EQUIPMENT FROM NWS SITE.
- EXISTING ELECTRIC UNIT HEATER TO REMAIN.
- REMOVE EXISTING HUMIDIFIER SYSTEM COMPLETE.
- EXISTING SIEMENS SYSTEM 600 CONTROL PANEL & RELATED ITEMS TO REMAIN.

MHTN ARCHITECTS
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 consulting engineers, inc.
 14 E. 2700 S. Salt Lake City, UT, 84115 PH: (801) 486-4646

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 SALT LAKE CITY, UT

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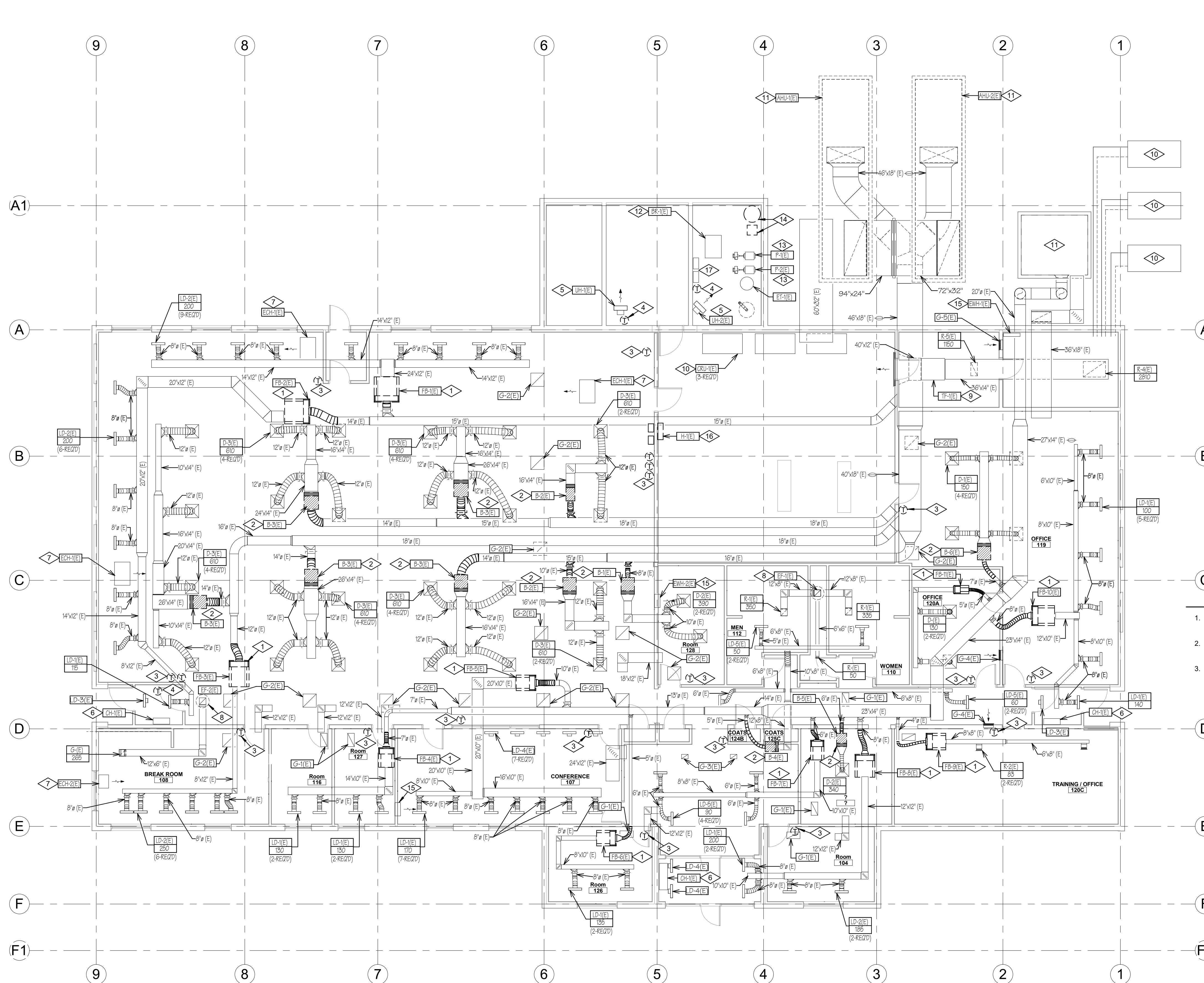
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NO.	DATE	DESCRIPTION

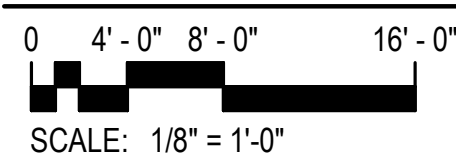
CONSTRUCTION DOCUMENTS - BID SET
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SHEET NAME
MECHANICAL DEMOLITION FLOOR PLAN

SHEET NUMBER
MD101



MECHANICAL DEMOLITION FLOOR PLAN

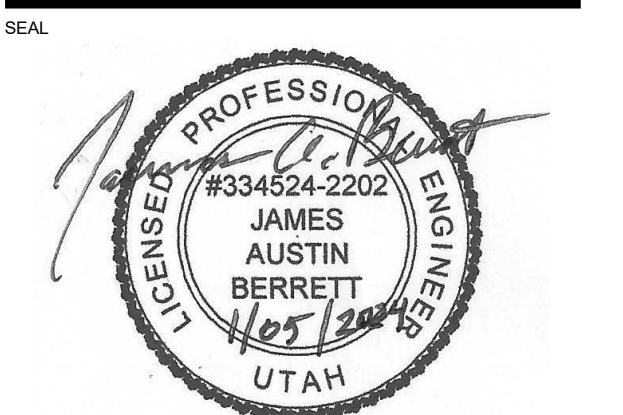


REFERENCE NOTES

- 1 REMOVE EXISTING HEATING WATER PIPING, ISOLATION VALVES, CONTROL VALVES, PNEUMATIC LINES, UNIONS, BALANCING VALVES & PIPE INSULATION COMPLETE FOR REPLACEMENT OF FAN POWERED VAV RE-HEAT BOX. COORDINATE WITH NEW WORK.
- 2 REMOVE EXISTING HEATING WATER PIPING, ISOLATION VALVES, CONTROL VALVES, PNEUMATIC LINES, UNIONS, BALANCING VALVES & PIPE INSULATION COMPLETE FOR REPLACEMENT OF EXISTING CABINET UNIT HEATER CONTROL VALVE. EXISTING CABINET UNIT HEATER TO REMAIN. COORDINATE WITH NEW WORK.
- 3 REMOVE EXISTING HEATING WATER PIPING, ISOLATION VALVES, CONTROL VALVES, PNEUMATIC LINES, UNIONS, BALANCING VALVES & PIPE INSULATION COMPLETE AS REQUIRED FOR NEW WORK. EXISTING UNIT HEATER IS TO REMAIN.
- 4 REMOVE EXISTING 2" 3-WAY HEATING VALVE & RELATED CONTROLS AT EXISTING BOILER. COORDINATE WITH NEW WORK.

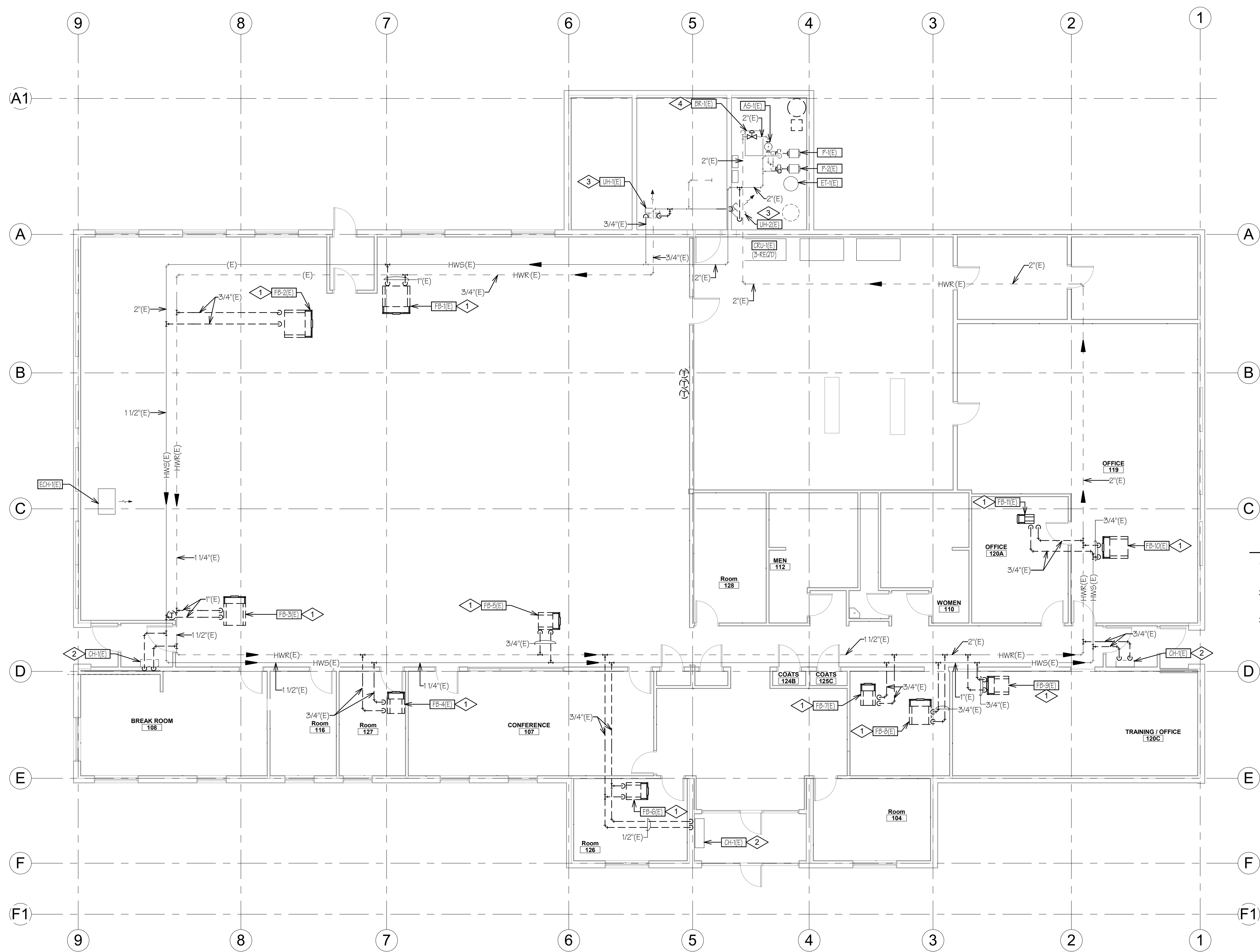
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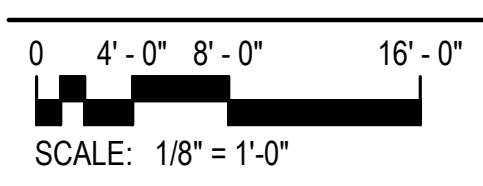


GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE TO ISOLATE AND DRAIN DOWN EXISTING HEATING WATER SYSTEM.
2. CONTRACTOR SHALL RE-FILL EXISTING HEATING WATER SYSTEM TO OWNER'S STANDARDS.
3. CONTRACTOR IS RESPONSIBLE TO REMOVE AND DISPOSE OF ALL DEMOLITION ITEMS.



MECHANICAL PIPING DEMOLITION FLOOR PLAN



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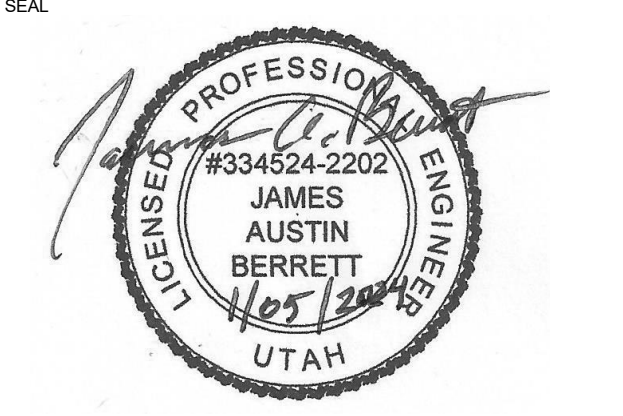
SHEET NAME
MECHANICAL PIPING DEMOLITION PLAN

SHEET NUMBER

MPD101

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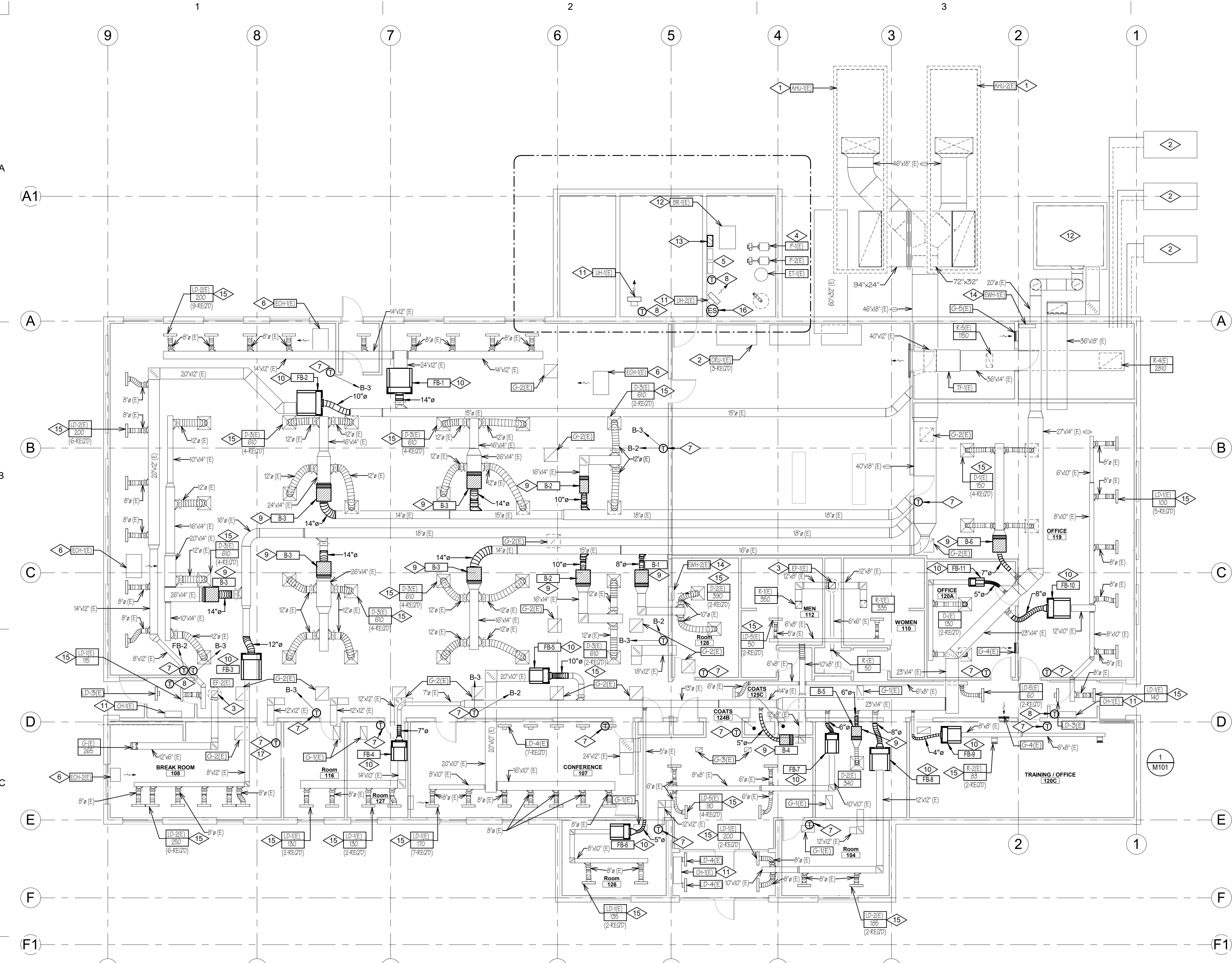
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SHEET NUMBER
MECHANICAL FLOOR PLAN

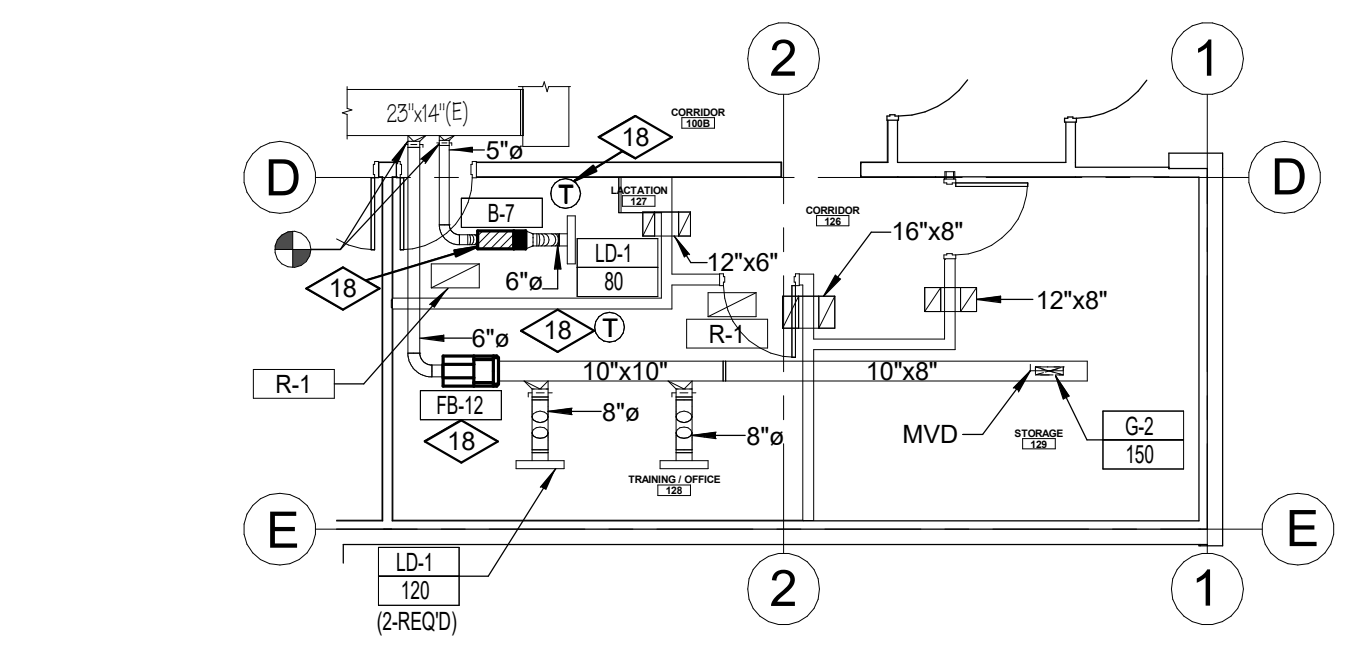
SHEET NUMBER
M101

REFERENCE NOTES

- EXISTING AIR HANDLER.
- EXISTING CRAC UNIT.
- EXISTING ROOF EXHAUST FAN.
- EXISTING HEATING PUMPS.
- EXISTING SIEMENS SYSTEM 600 PANEL.
- ABANDONED CEILING CABINET UNIT HEATER.
- NEW WALL MOUNTED HEATING/COOLING THERMOSTAT (TYPICAL).
- NEW WALL MOUNTED HEATING THERMOSTAT (TYPICAL).
- NEW DIGITAL VAV BOX. PROVIDE NEW FLEXIBLE DUCT CONNECTION TO INLET. PROVIDE DUCT TRANSITION AS REQUIRED. PROVIDE NEW LINED SHEET METAL DUCT TRANSITION FROM OUTLET TO EXISTING DUCTWORK. SEE DETAIL 2/M501.
- NEW DIGITAL FAN POWERED VAV RE-HEAT BOX. PROVIDE NEW FLEXIBLE DUCT CONNECTION TO INLET. PROVIDE DUCT TRANSITION AS REQUIRED. PROVIDE NEW LINED SHEET METAL DUCT TRANSITION FROM OUTLET TO EXISTING DUCTWORK. SEE DETAIL 1/M501. RE-CONNECT 277/160 POWER TO NEW FAN POWERED BOX PER 2021 IECC.
- PROVIDE NEW DIGITAL CONTROLS & HEATING VALVE. SEE SHEET MP101.
- PROVIDE NEW DIGITAL CONTROLS & 3-WAY HEATING VALVE. SEE SHEET MP101.
- PROVIDE NEW 20 AMP 120/160 POWER PANEL FOR NEW LOW VOLTAGE POWER SOURCE FOR ALL NEW DIGITAL VAV BOXES & ALL REQUIRED ITEMS.
- PROVIDE NEW DIGITAL CONTROLS TO EXISTING ELECTRIC UNIT HEATER.
- RE-BALANCE EXISTING DIFFUSERS TO CFM SHOWN. BALANCE NEW VAV BOX FOR EACH SYSTEM (TYPICAL).
- PROVIDE NEW BOILER EMERGENCY SHUT DOWN SWITCH FOR THE EXISTING BOILER. SEE SPECIFICATIONS AND SEE DETAIL 4/M502.
- COORDINATE THERMOSTAT LOCATIONS WITH T.I. PROJECT.
- PROGRAM & SHOW ON GRAPHICS VAV, VAV FAN BOX & RELATED HW VALVE UNDER THIS CONTRACT. COORDINATE WITH NOAA T.I. PROJECT.



MECHANICAL FLOOR PLAN
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"



TRAINING/OFFICE & LACTATION MECH PLAN
0 4'-0" 8'-0" 16'-0" (NOAA-T.I.)
SCALE: 1/8" = 1'-0"

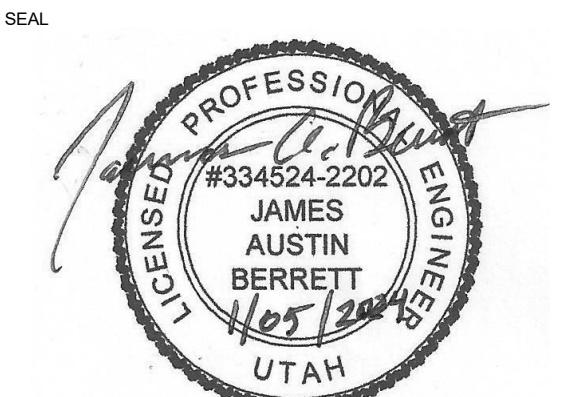
Autodesk Docs://2023577 SCLCA Airport NWSF TIM22 NWS VAV UPGRADE.rvt
1/5/2024 1:15:48 PM

REFERENCE NOTES

- APPROXIMATE LOCATION OF EXISTING HEATING WATER PIPING (TYPICAL).
- CONNECT NEW VAV RE-HEAT COIL PIPING TO EXISTING HEATING WATER MAINS. REPAIR PIPE INSULATION AT TIE-IN (TYPICAL).
- NEW DIGITAL FAN POWERED VAV BOX WITH RE-HEAT COIL. RE-BALANCE WATER TO GPM SHOWN. COORDINATE WITH EXISTING CONDITIONS (TYPICAL).
- RE-PIPE EXISTING HOT WATER CABINET UNIT HEATER. RE-BALANCE WATER TO GPM SHOWN. COORDINATE WITH EXISTING CONDITIONS.
- RE-PIPE EXISTING HOT WATER UNIT HEATER. RE-BALANCE WATER TO GPM SHOWN. COORDINATE WITH EXISTING CONDITIONS.
- NEW 2" 3-WAY HEATING VALVE AT EXISTING BOILER. REPAIR PIPE INSULATION AT TIE-IN.
- EXISTING HEATING WATER PUMPS. RE-BALANCE GPM SHOWN.

SLCDA NATIONAL WEATHER SERVICE V.A.V. UPDATE
 SALT LAKE INTERNATIONAL AIRPORT
 SALT LAKE CITY, UT

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MHTN PROJECT NO 2023577
VIEW AND PRINT THIS DRAWING IN COLOR
 Original drawing is 24 x 36. Do not scale contents of this drawing.

ISSUED:	NO.	DATE	DESCRIPTION
	01	Nov 03, 2023	50% REVIEW SET
	02	Nov 17, 2023	80% REVIEW SET
	03	Dec 21, 2023	100% REVIEW SET
	04	Jan 5, 2024	CONSTRUCTION DOCUMENTS

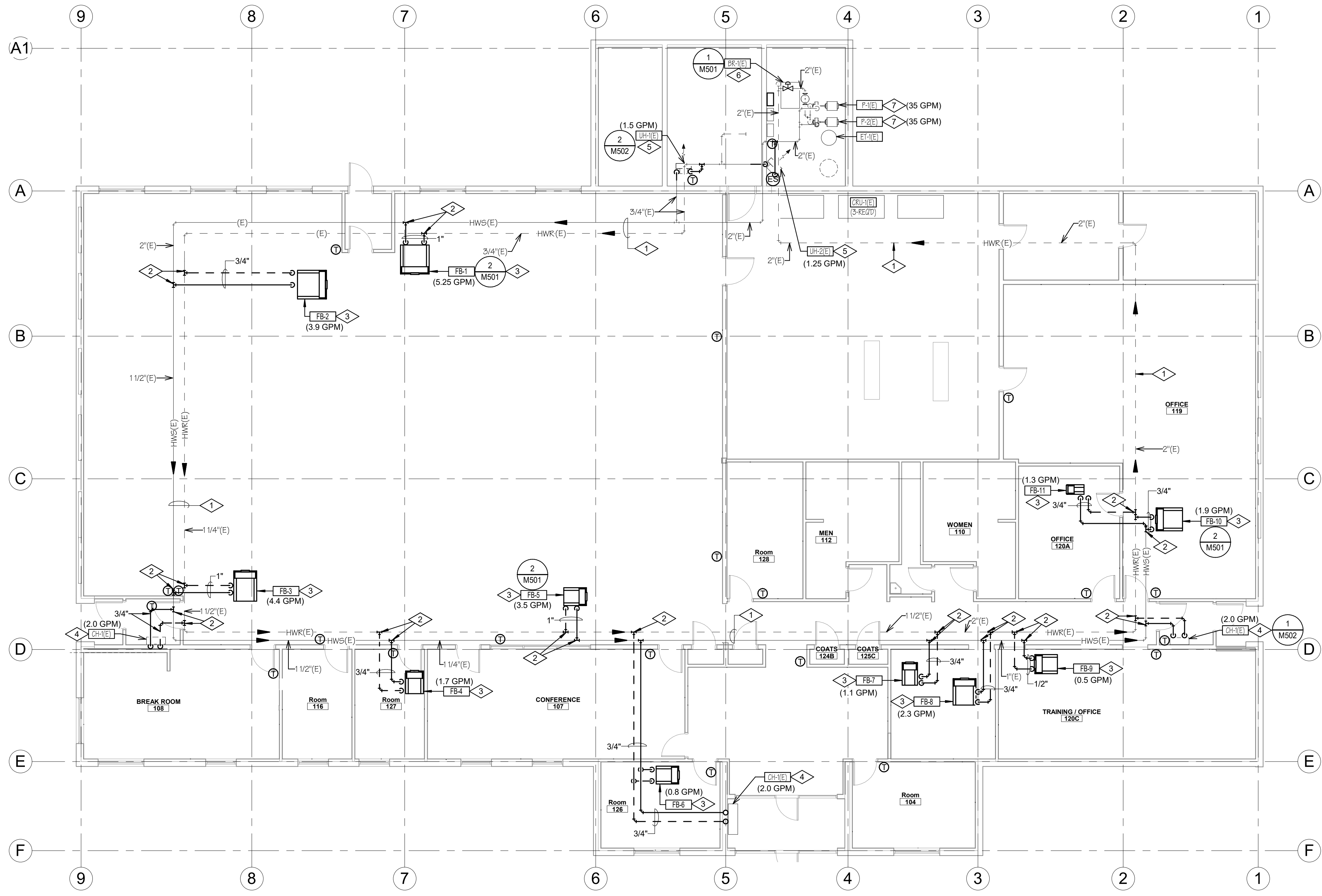
REVISIONS
 CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT
 LAST REVISION DATE

NO.	DATE	DESCRIPTION

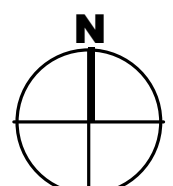
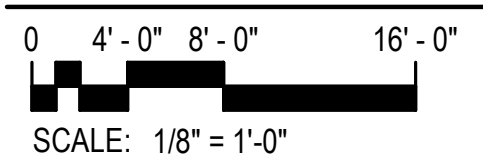
CONSTRUCTION DOCUMENTS - BID SET
 MAY 02, 2024

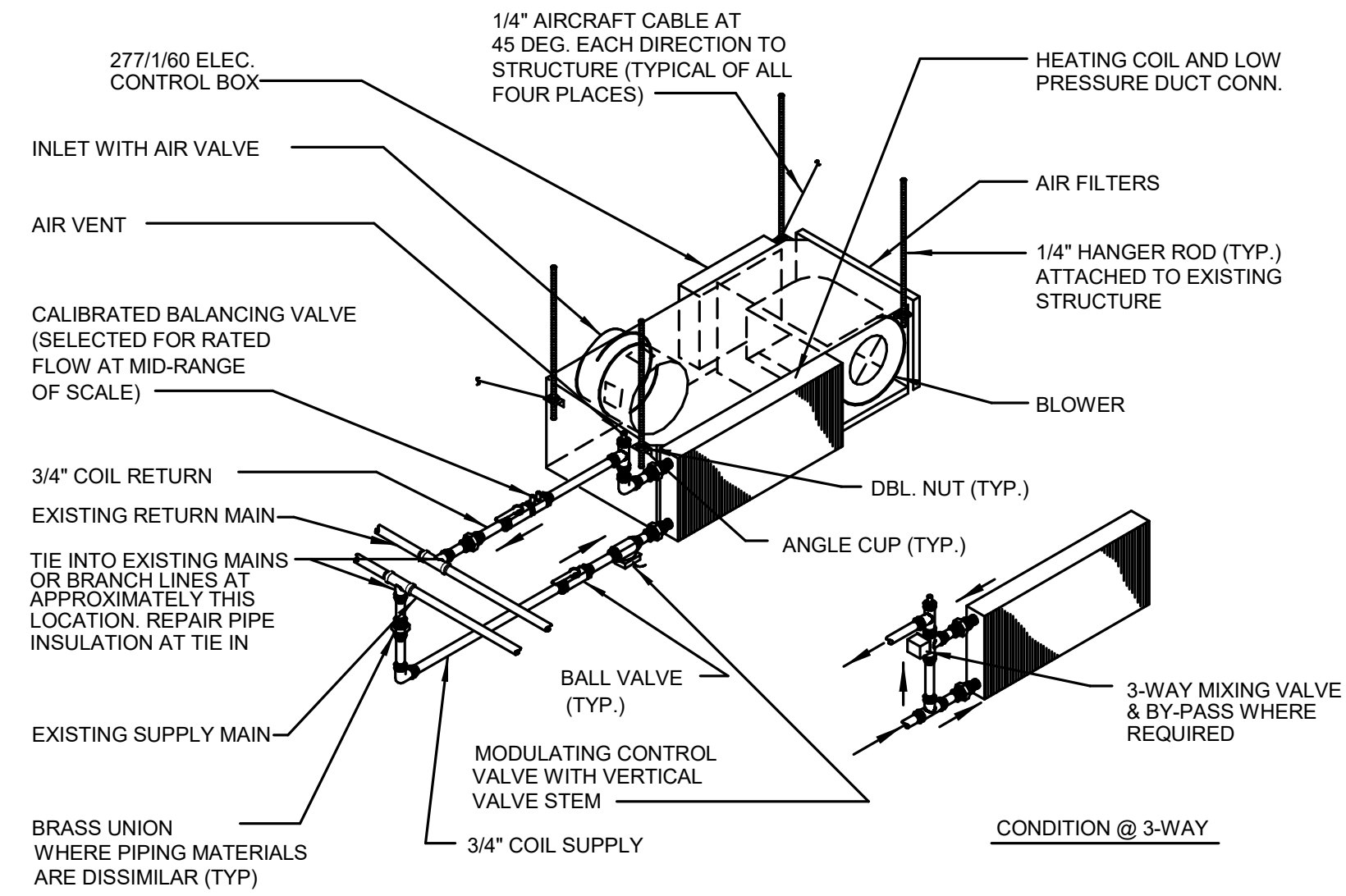
SHEET NAME
MECHANICAL PIPING FLOOR PLAN

SHEET NUMBER
MP101



MECHANICAL PIPING DEMOLITION FLOOR PLAN





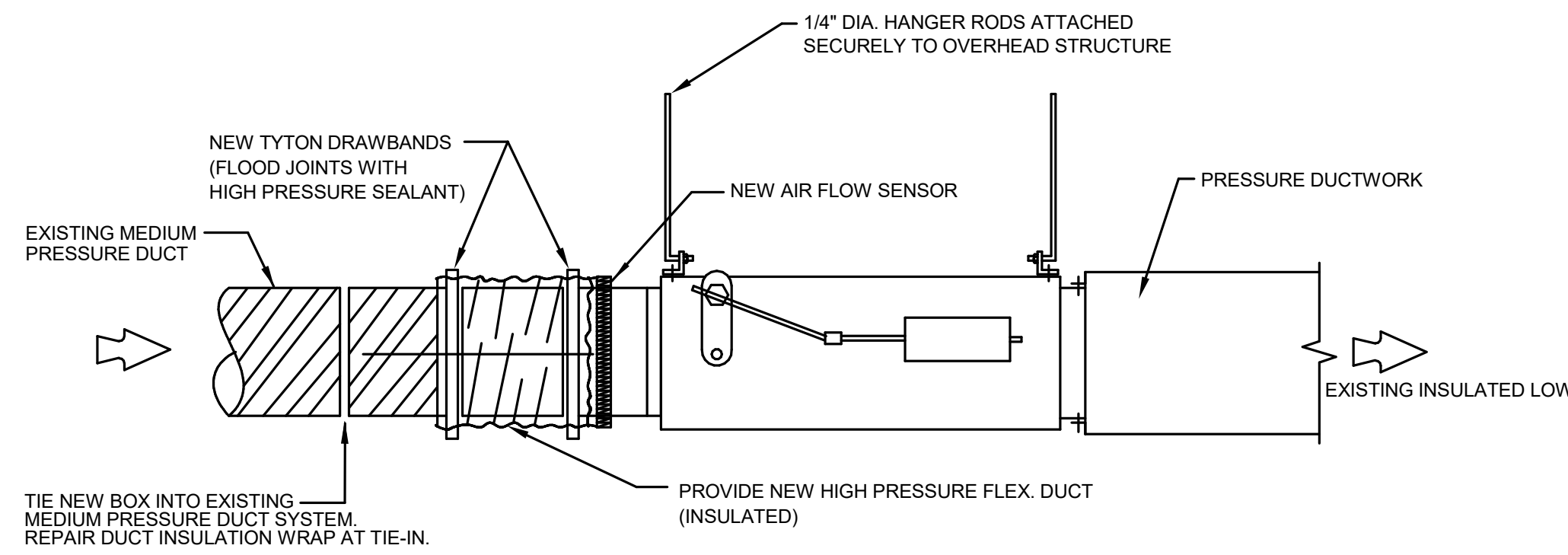
FAN POWERED V.A.V. REHEAT BOX

NOT TO SCALE

M501

SYMBOL	COOLING CFM	HEATING CFM	% (4) MIN. CFM	INLET SIZE	A.P.D.	% (5) HEAT. CFM	RE-HEAT COIL (2)				MOTOR (6)	MAKE & MODEL (1)(2)(3)	
							MBH	GPM	ROWS	W.P.D.			COIL SIZE
FB-1	1800	1080	30	14" DIA.	.59"	60	52.5	5.25	2	6.5 FT.	24" x 17"	1 H.P. 7.8 AMPS 277/1/60	PRICE FDV5-6014
FB-2	1200	720	30	10" DIA.	.44"	60	35.0	3.5	2	1.9 FT.	16" x 15"	1/2 H.P. 3.2 AMPS 277/1/60	PRICE FDV5-4010
FB-3	1500	900	30	12" DIA.	.45"	60	43.7	4.4	2	1.1 FT.	20" x 17 1/2"	3/4 H.P. 4.4 AMPS 277/1/60	PRICE FDV5-5012
FB-4	570	345	30	7" DIA.	.39"	60	16.8	1.7	2	.41 FT.	14" x 12 1/2"	1/8 H.P. 1.1 AMPS 277/1/60	PRICE FDV5-2008
FB-5	1190	715	30	10" DIA.	.44"	60	34.7	3.5	2	1.9 FT.	16" x 15"	1/2 H.P. 3.2 AMPS 277/1/60	PRICE FDV5-4010
FB-6	270	165	30	6" DIA.	.33"	60	8.0	0.8	2	.06 FT.	14" x 12 1/2"	1/8 H.P. 1.1 AMPS 277/1/60	PRICE FDV5-2006
FB-7	360	220	30	6" DIA.	.33"	60	10.7	1.1	2	.06 FT.	14" x 12 1/2"	1/8 H.P. 1.1 AMPS 277/1/60	PRICE FDV5-2006
FB-8	770	465	30	8" DIA.	.49"	60	22.6	2.7	2	.41 FT.	14" x 12 1/2"	1/4 H.P. 1.1 AMPS 277/1/60	PRICE FDV5-3008
FB-9	170	100	30	6" DIA.	.33"	60	4.9	0.5	2	.06 FT.	14" x 12 1/2"	1/8 H.P. 1.1 AMPS 277/1/60	PRICE FDV5-2006
FB-10	640	385	30	8" DIA.	.49"	60	18.7	1.9	2	.41 FT.	14" x 12 1/2"	1/4 H.P. 1.1 AMPS 277/1/60	PRICE FDV5-3008
FB-11	260	150	30	6" DIA.	.33"	60	12.6	1.3	2	.06 FT.	14" x 12 1/2"	1/8 H.P. 1.1 AMPS 277/1/60	PRICE FDV5-2006
FB-12	390	220	30	6" DIA.	.33"	60	10.7	1.1	2	.06 FT.	14" x 12 1/2"	1/8 H.P. 1.1 AMPS 277/1/60	PRICE FDV5-2006

- NOTES:
- VAV AND COIL CONTROL SHALL BE ACCESSED FROM SAME SIDE OF BOX. SEE PLAN FOR RIGHT OR LEFT HAND COIL CONNECTIONS. COORDINATE WITH INSTALLING CONTRACTOR.
 - CAPACITIES BASED ON 55 DEG.F. ENTERING AIR TEMP. 180 DEG.F. ENTERING WATER TEMP WITH 20 DEG.F. WATER TEMP. DROP. & WATER SOLUTION
 - COORDINATE CONTROL MOUNTING WITH ATC CONTRACTOR.
 - MINIMUM CFM SHALL BE SET FOR 30 PERCENT OF THE TOTAL CFM FOR EACH VAV BOX.
 - MAXIMUM HEATING CFM SHALL BE SET FOR 60 PERCENT OF THE TOTAL CFM FOR EACH VAV BOX.
 - MOTORS TO BE 277/1/60.



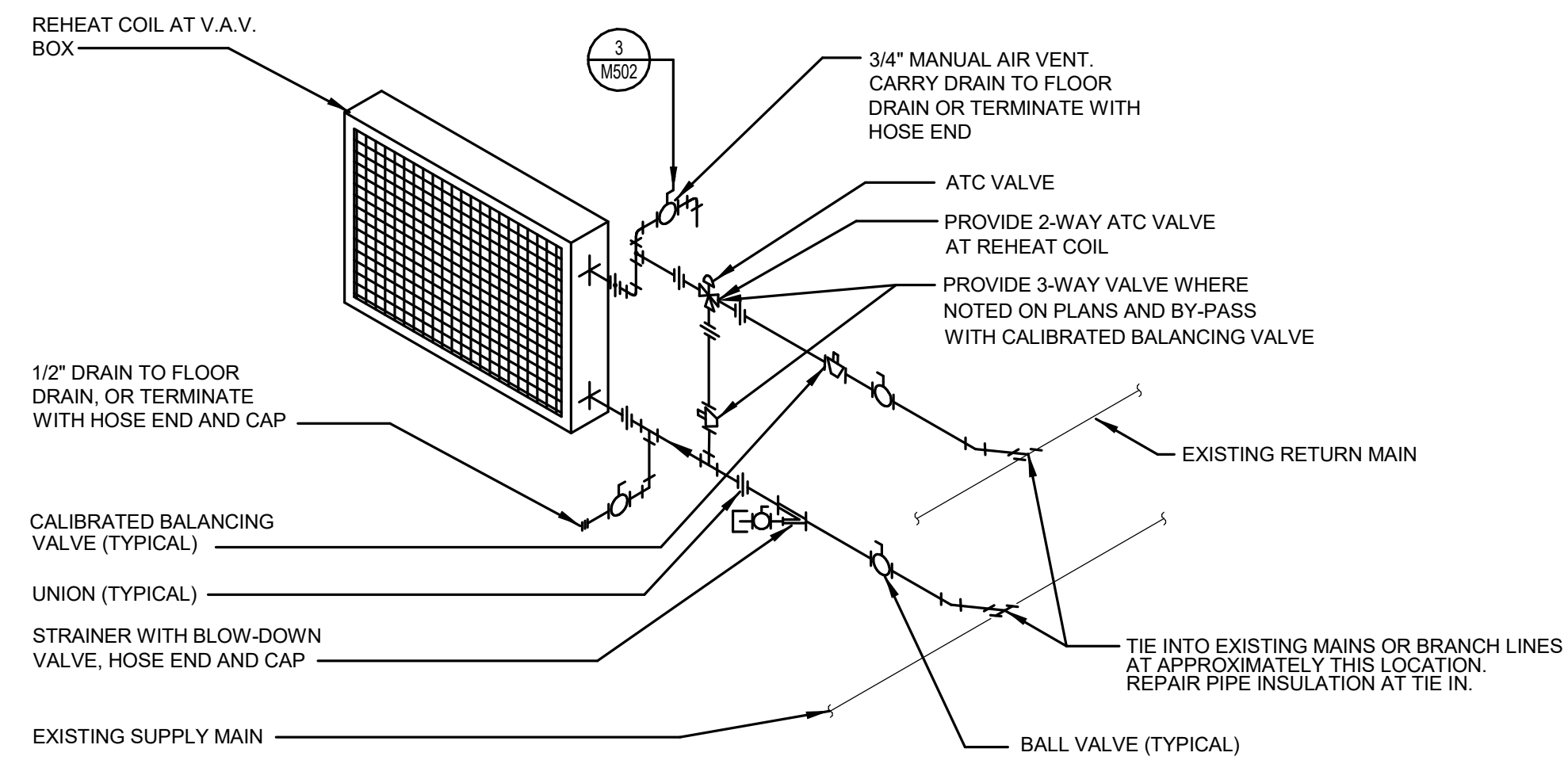
VAV BOX INSTALLATION DETAIL

NOT TO SCALE

M501

SYMBOL	DESIGN CFM	% (2) MIN. CFM	INLET SIZE	A.P.D.	% (3) HEAT. CFM	MAKE & MODEL (1)
B-1	780	30	8" DIA.	.49"	60	PRICE SDV
B-2	1220	30	10" DIA.	.44"	60	PRICE SDV
B-3	2440	30	14" DIA.	.59"	60	PRICE SDV
B-4	220	30	5" DIA.	.33"	60	PRICE SDV
B-5	340	30	6" DIA.	.33"	60	PRICE SDV
B-6	600	30	7" DIA.	.49"	60	PRICE SDV
B-7	80	30	5" DIA.	.33"	60	PRICE SDV

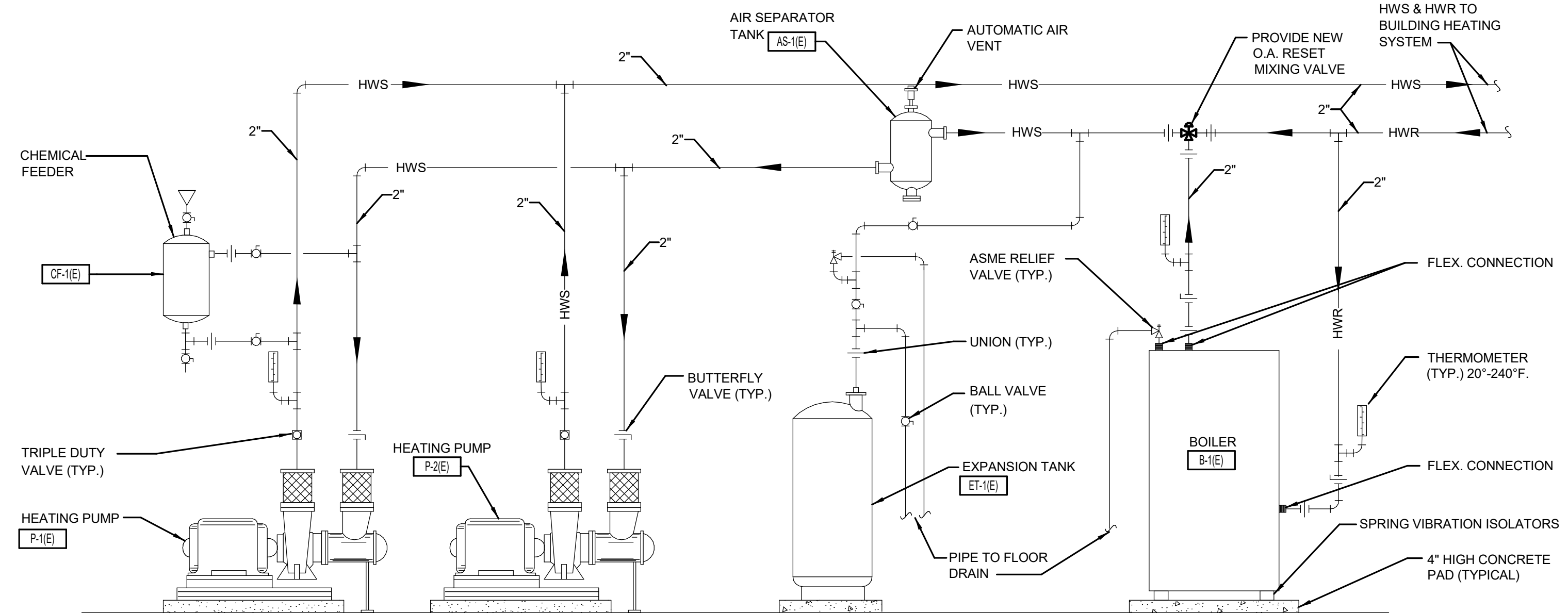
- NOTES:
- COORDINATE CONTROL MOUNTING WITH ATC CONTRACTOR.
 - MINIMUM CFM SHALL BE SET FOR 30 PERCENT OF THE TOTAL CFM FOR EACH VAV BOX.
 - MAXIMUM HEATING CFM SHALL BE SET FOR 60 PERCENT OF THE TOTAL CFM FOR EACH VAV BOX.



NEW REHEAT COIL PIPING DETAIL

NOT TO SCALE

M501

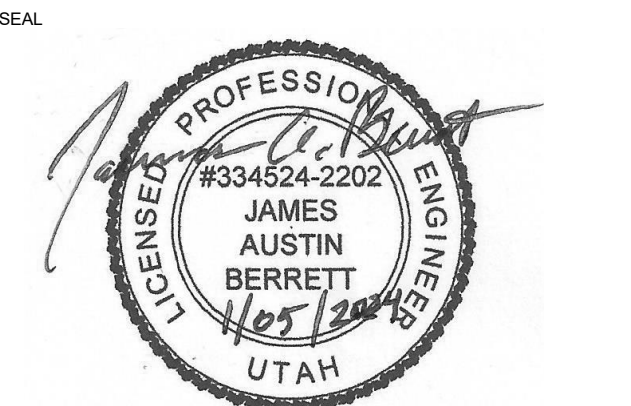


EXISTING HEATING SYSTEM PIPING SCHEMATIC

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M501

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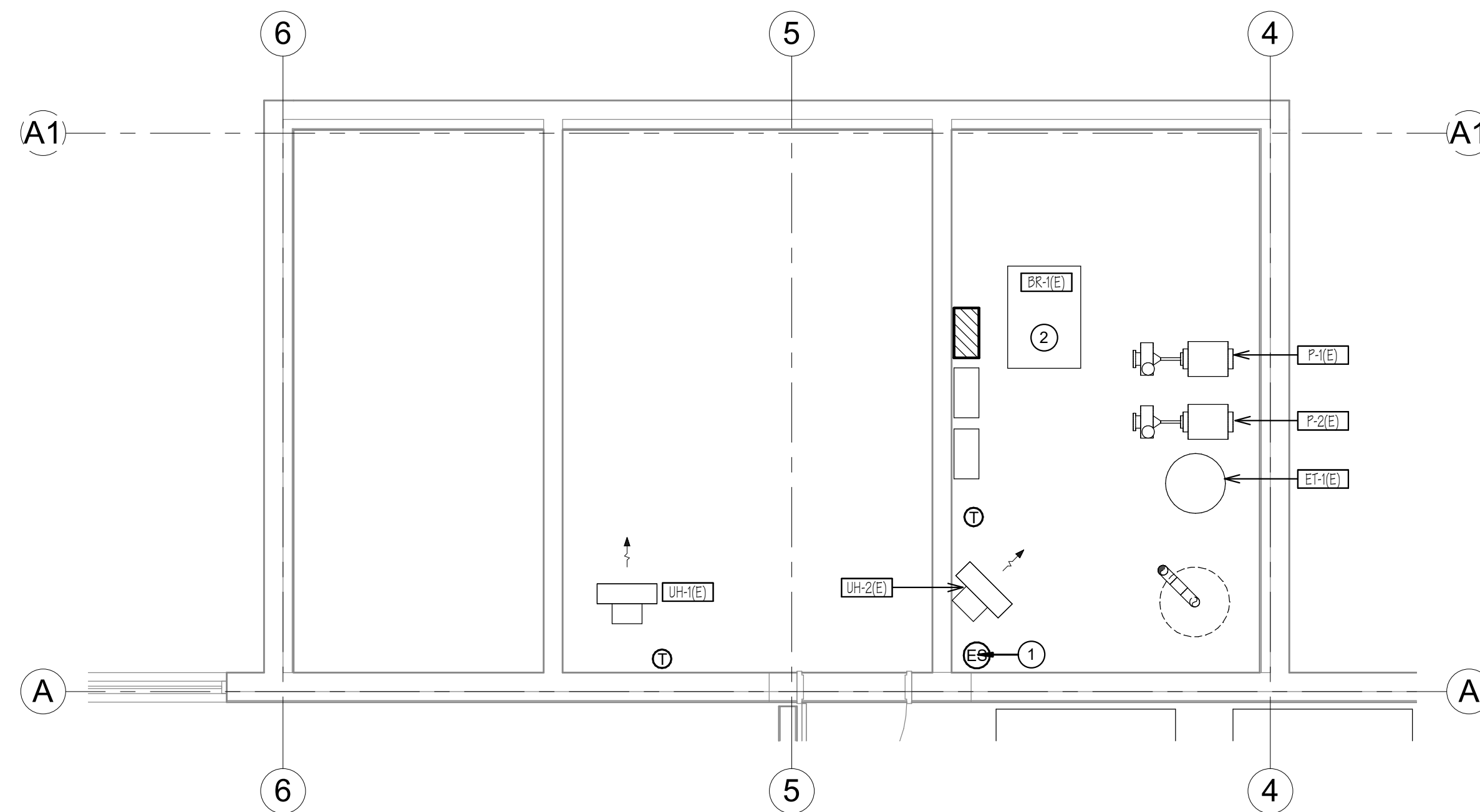
NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS - BID SET
MAY 02, 2024

SHEET NAME
MECHANICAL SCHEDULES & DETAILS

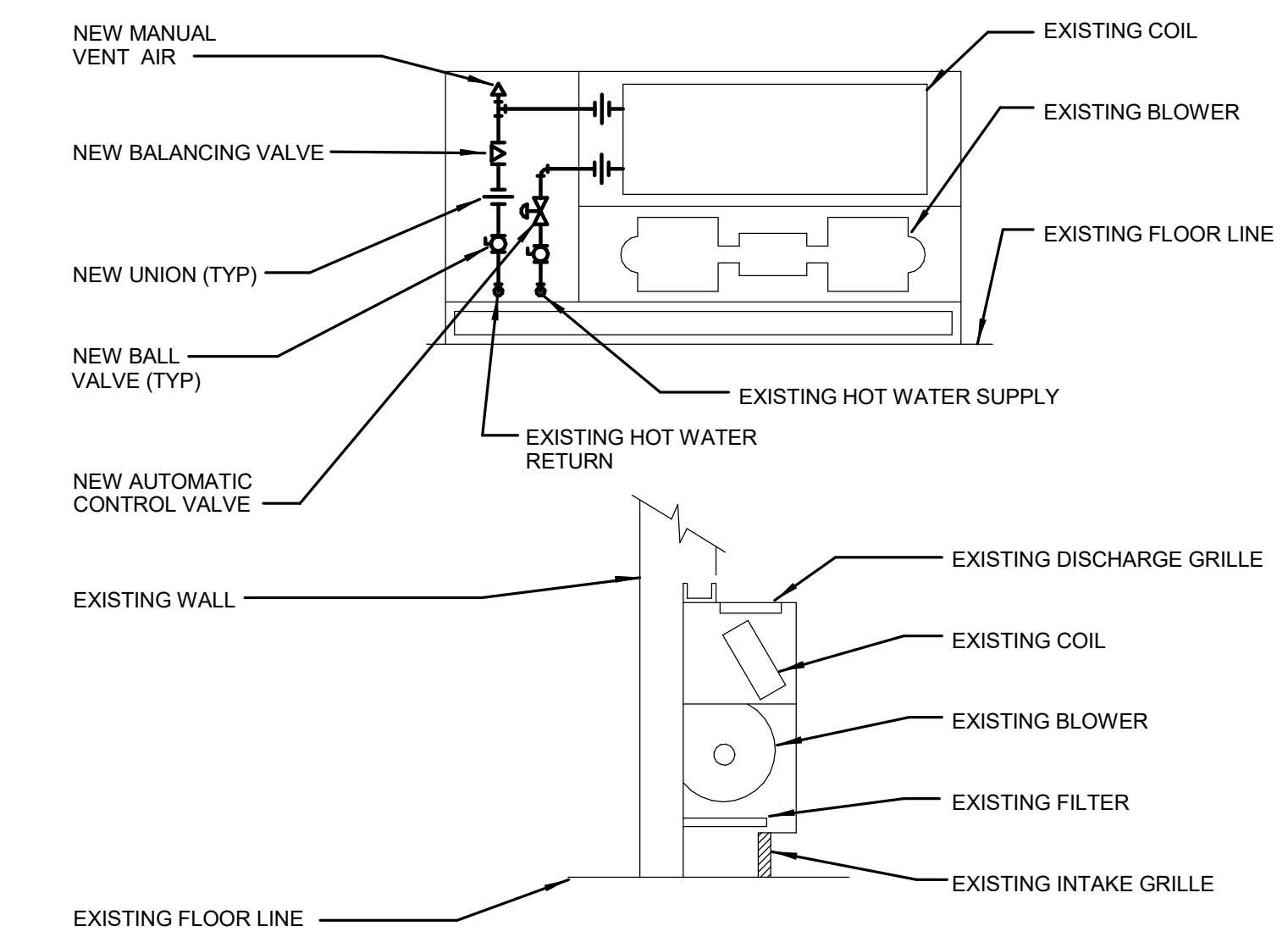
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M501

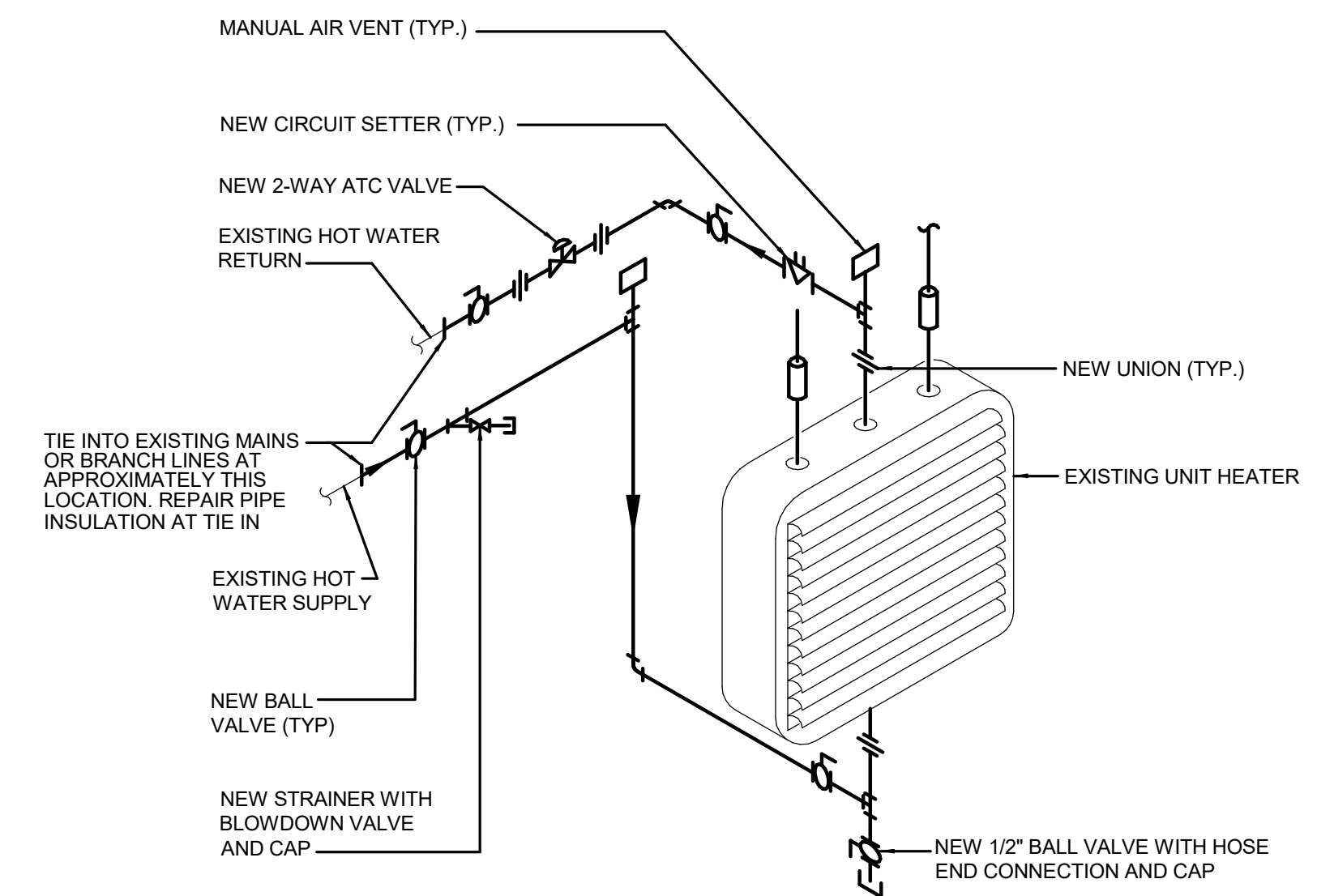


- KEY NOTES:**
- 1 PROVIDE PALM OR MUSHROOM TYPE, SINGLE ACTION SHUTDOWN SWITCH WITH MANUAL RESET. SWITCH WHEN ACTIVATED SHALL CUT POWER TO THE EXISTING BOILER BURNER CONTROLS BR-1, EMERGENCY SWITCH & RESET SHALL BE PREMONITORY LABELED WITH BOLD 1/2" HT. LETTERING (RED PLASTIC W/WHITE ENGRAVING) OR AS REQUIRED BY STATE BOILER INSPECTOR.
 - 2 SHUT-OFF TO BURNER CONTROLS SHALL SHUT-OFF FUEL SUPPLY TO BURNERS UPON LOSS OF POWER OR UPON FAILURE OF DEVICE.

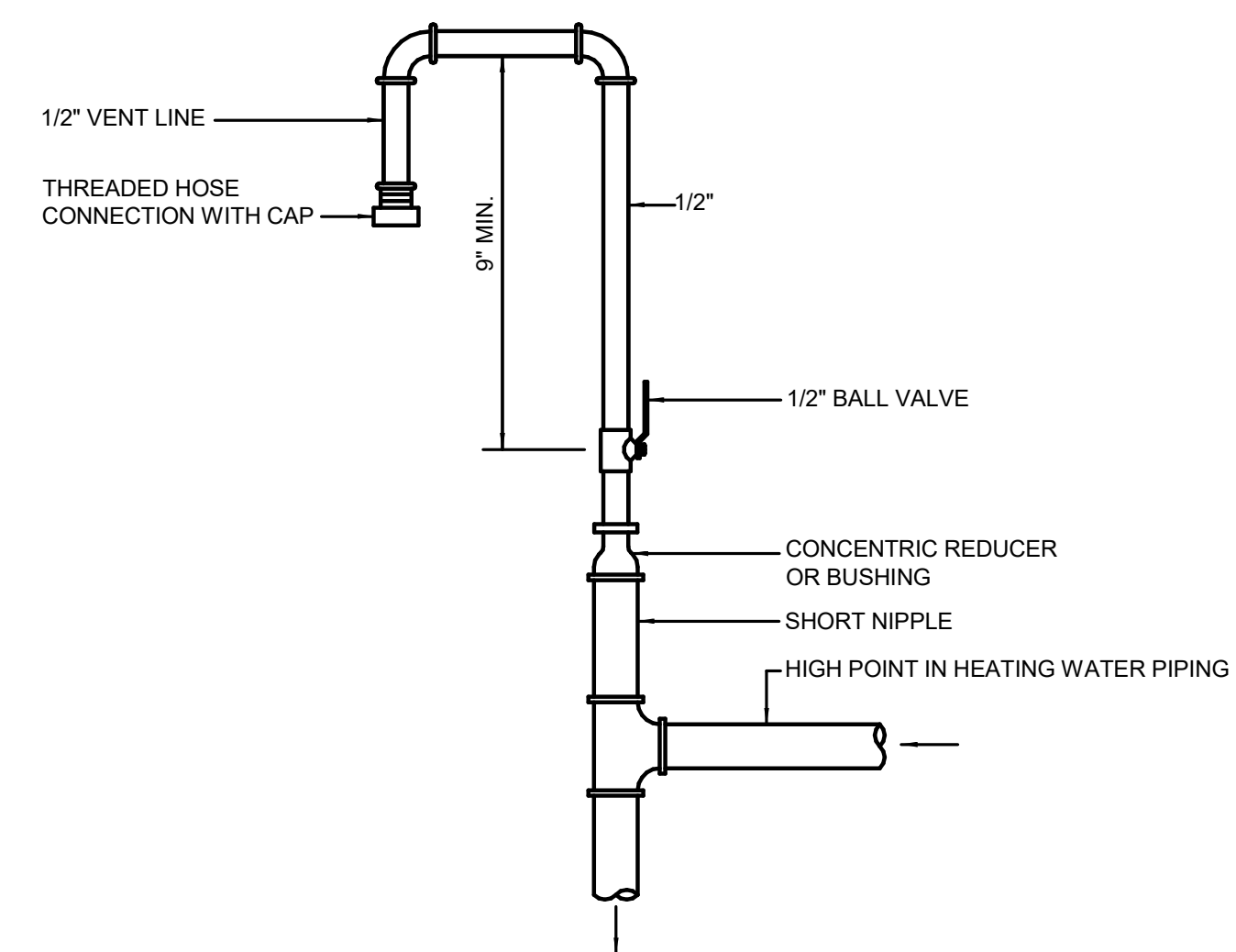
ENLARGED MECHANICAL PLAN
NOT TO SCALE



EXISTING FAN COIL UNIT PIPING INSTALLATION DETAIL
NOT TO SCALE

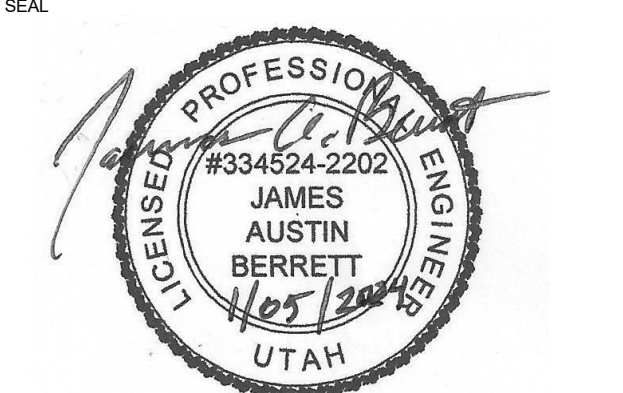


EXISTING UNIT HEATER PIPING SCHEMATIC
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NEW MANUAL AIR VENT DETAIL
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NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS - BID SET
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SHEET NAME
MECHANICAL SCHEDULES & DETAILS

SHEET NUMBER
M502