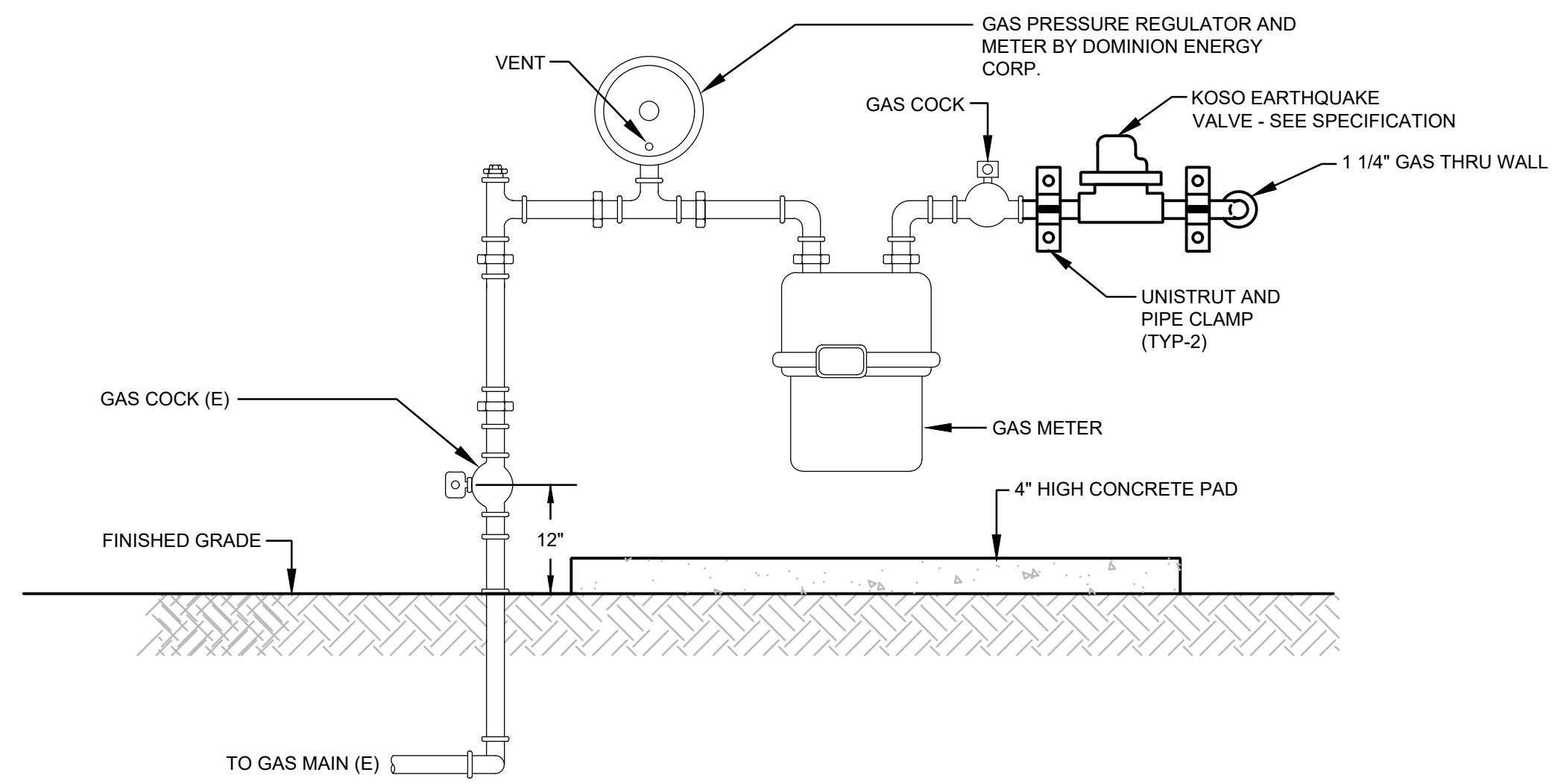
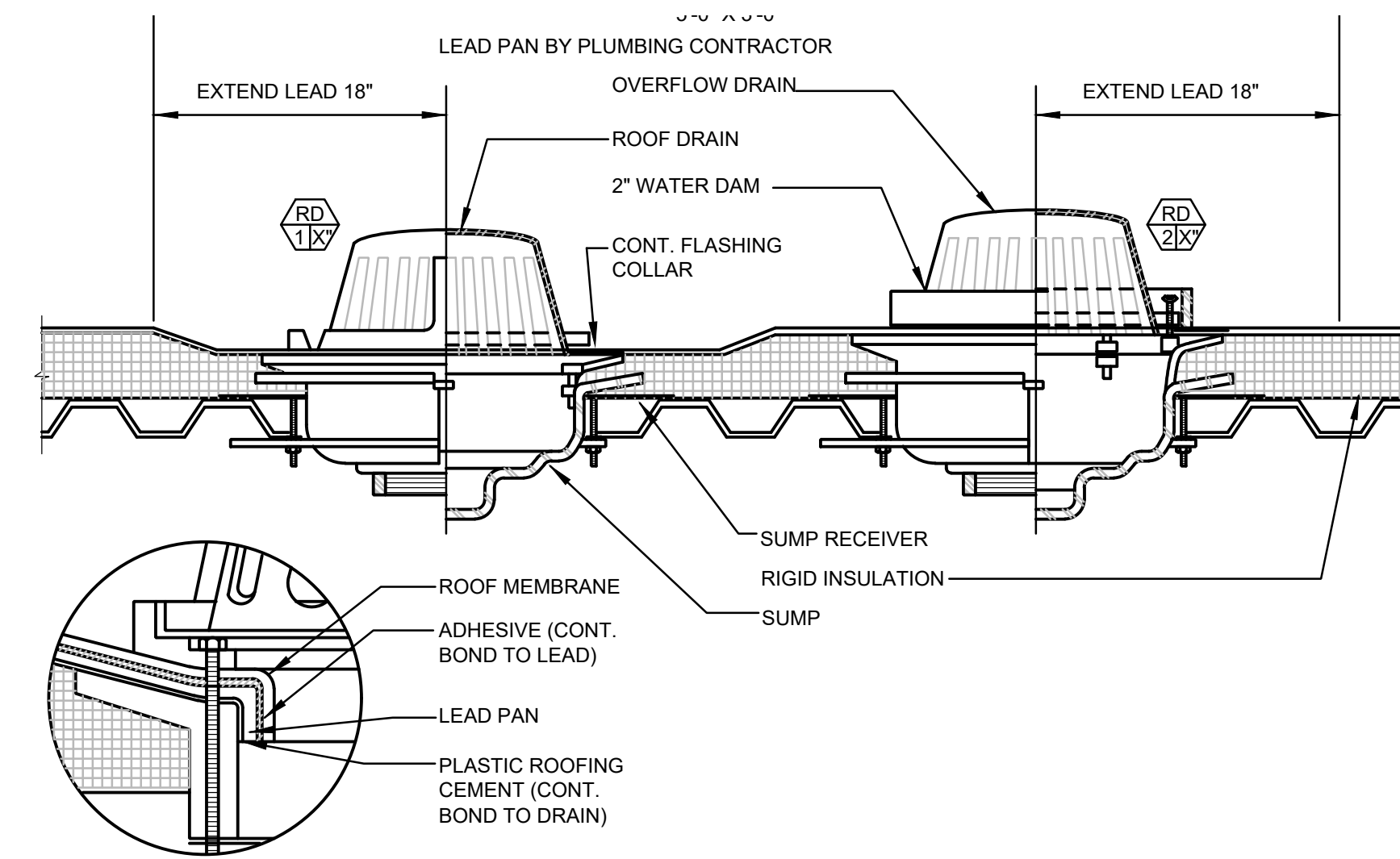


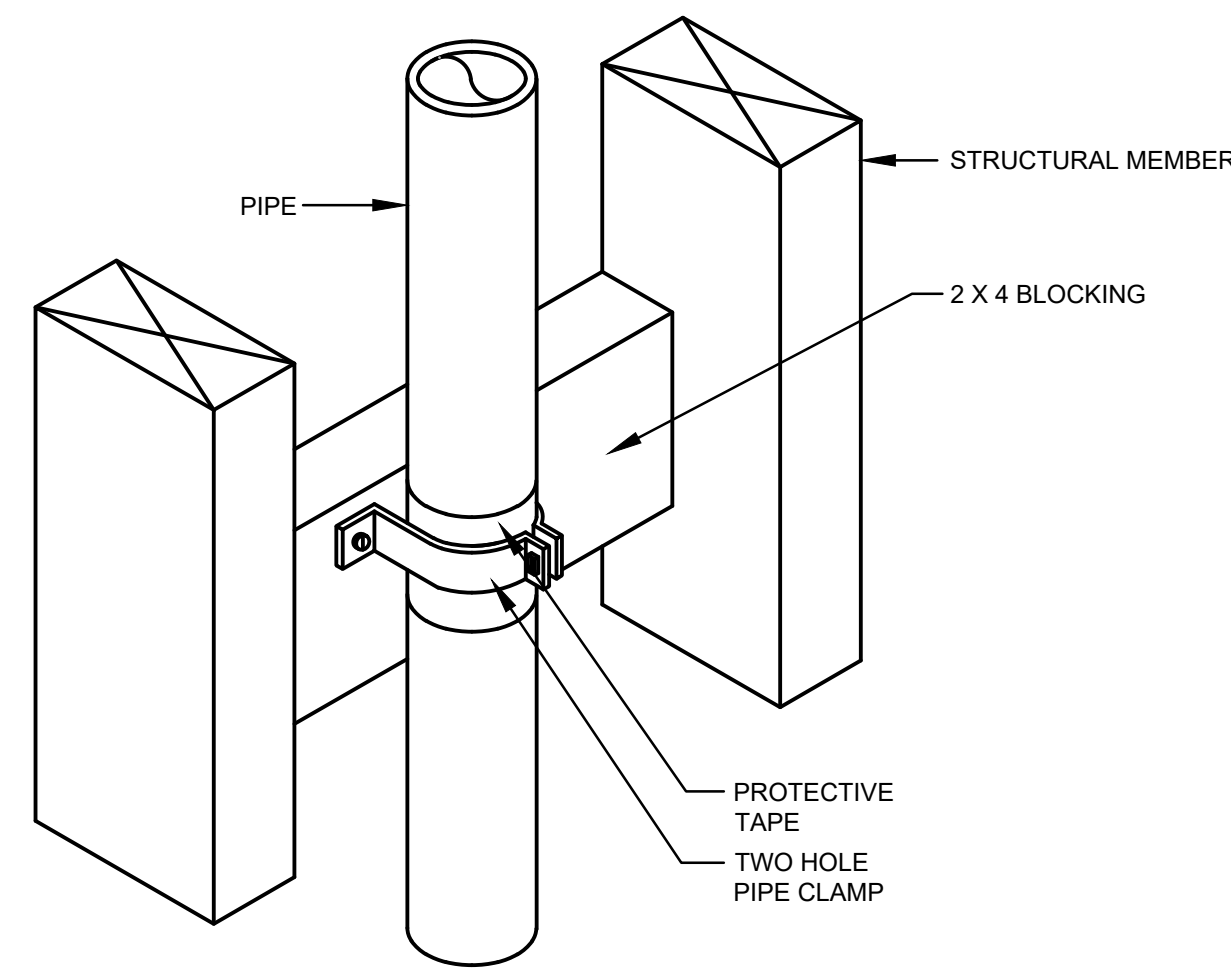
FLOOR CLEANOUT DETAIL 7
NOT TO SCALE P6.2



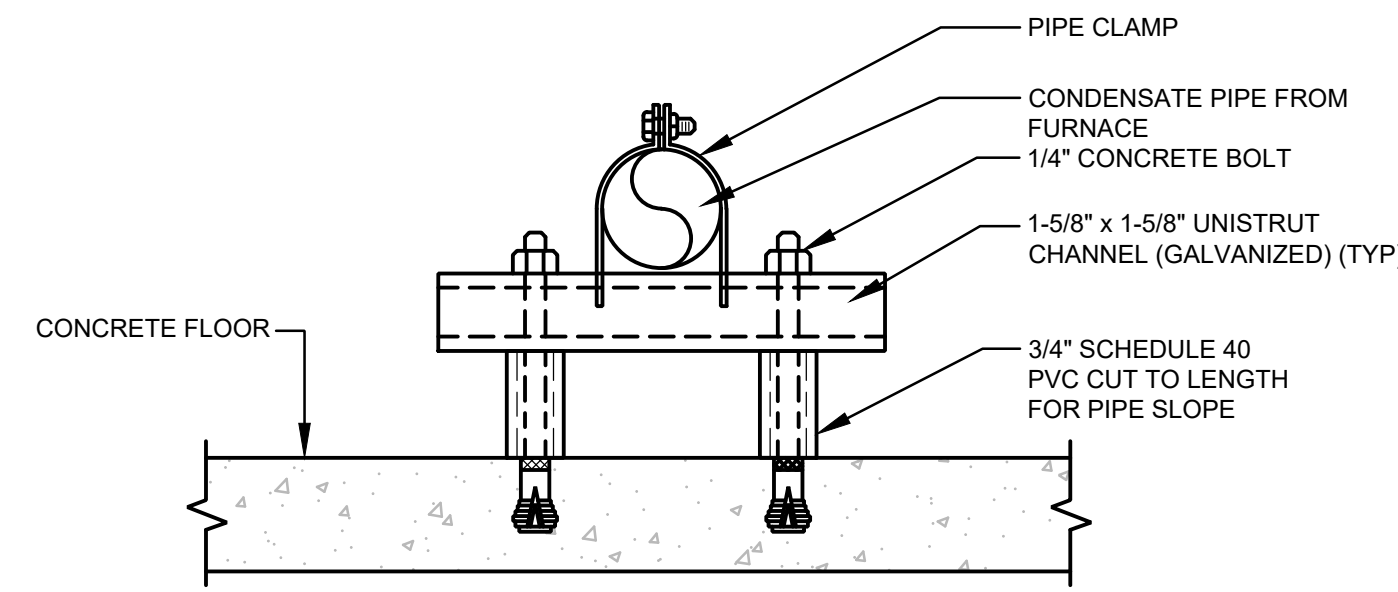
GAS METER SERVICE DETAIL 4
NOT TO SCALE P6.2



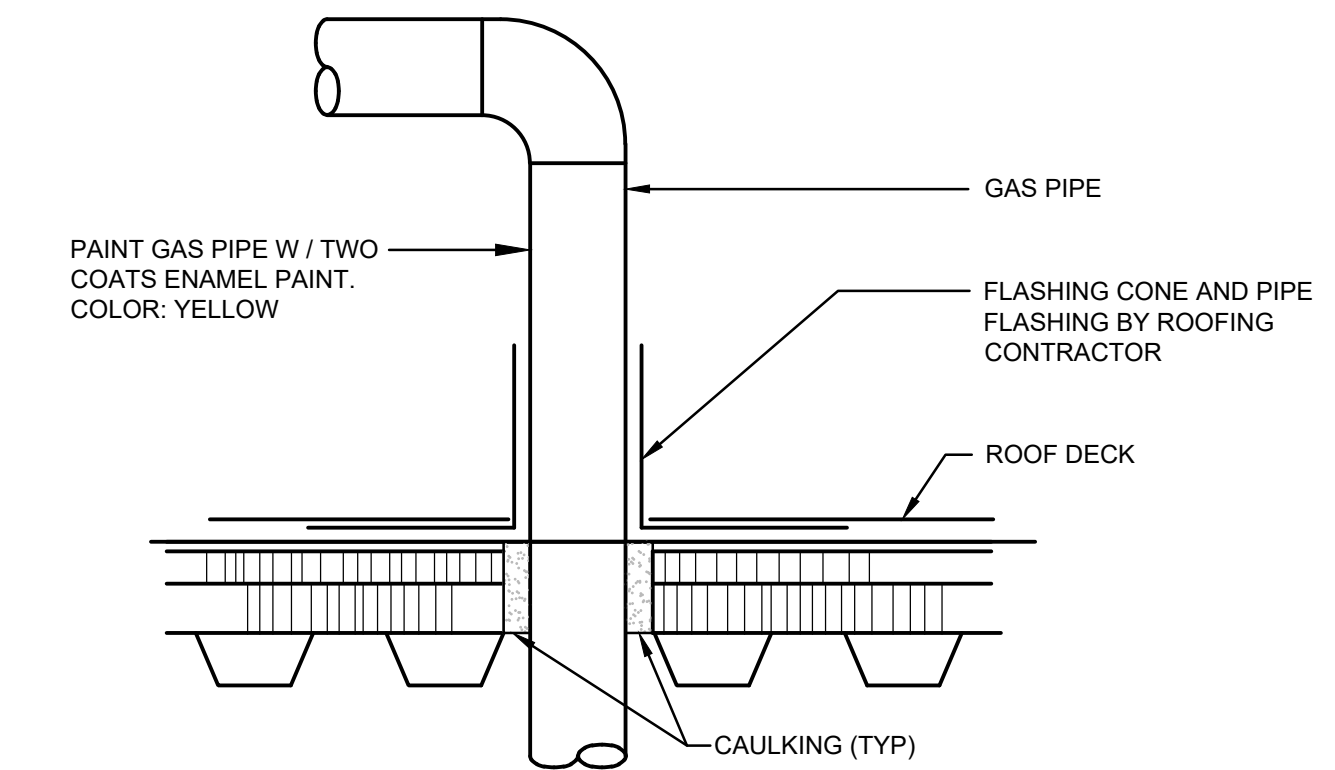
ROOF DRAIN DETAIL 1
NOT TO SCALE P6.2



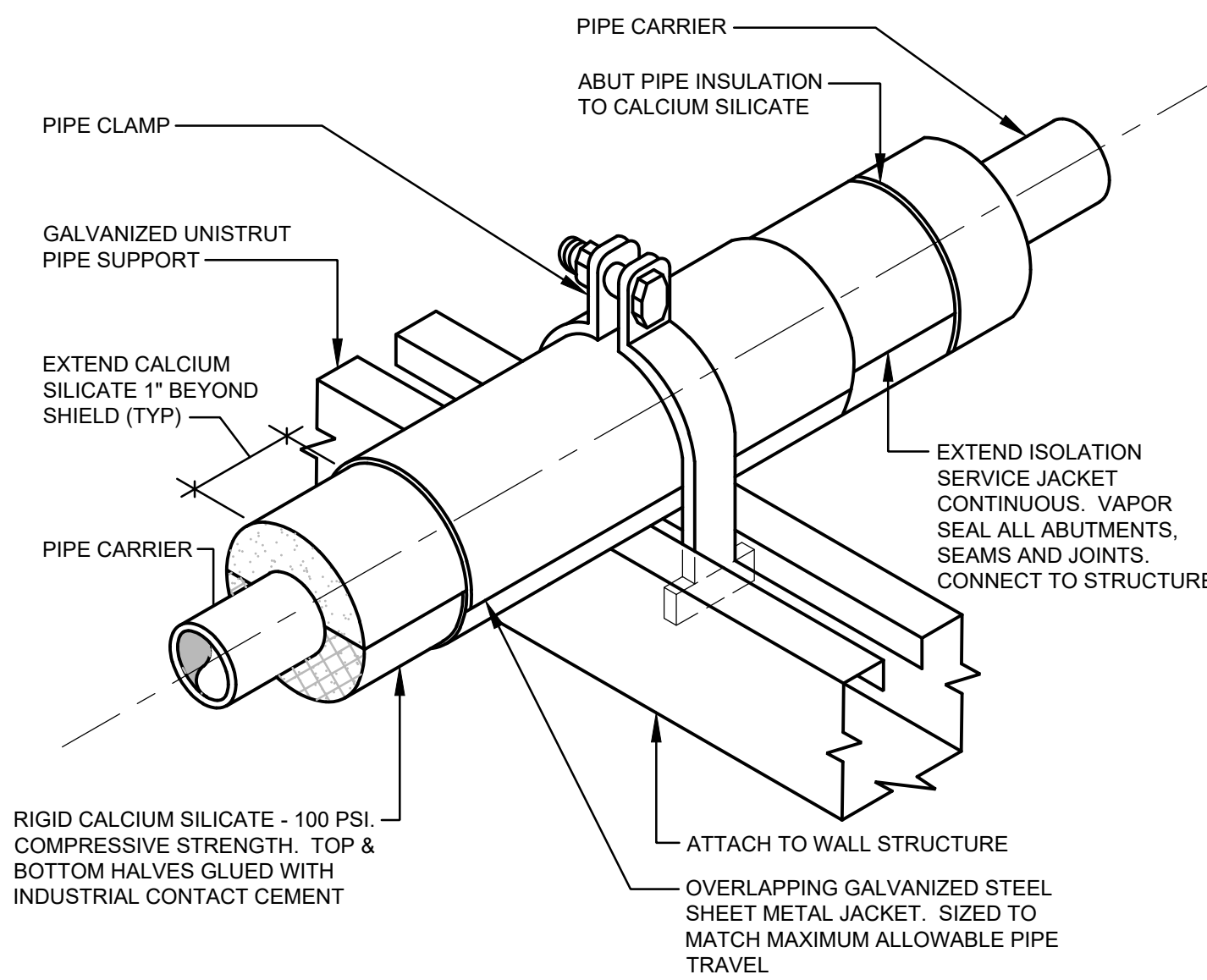
VERTICAL PIPE SUPPORT DETAIL 8
NOT TO SCALE P6.2



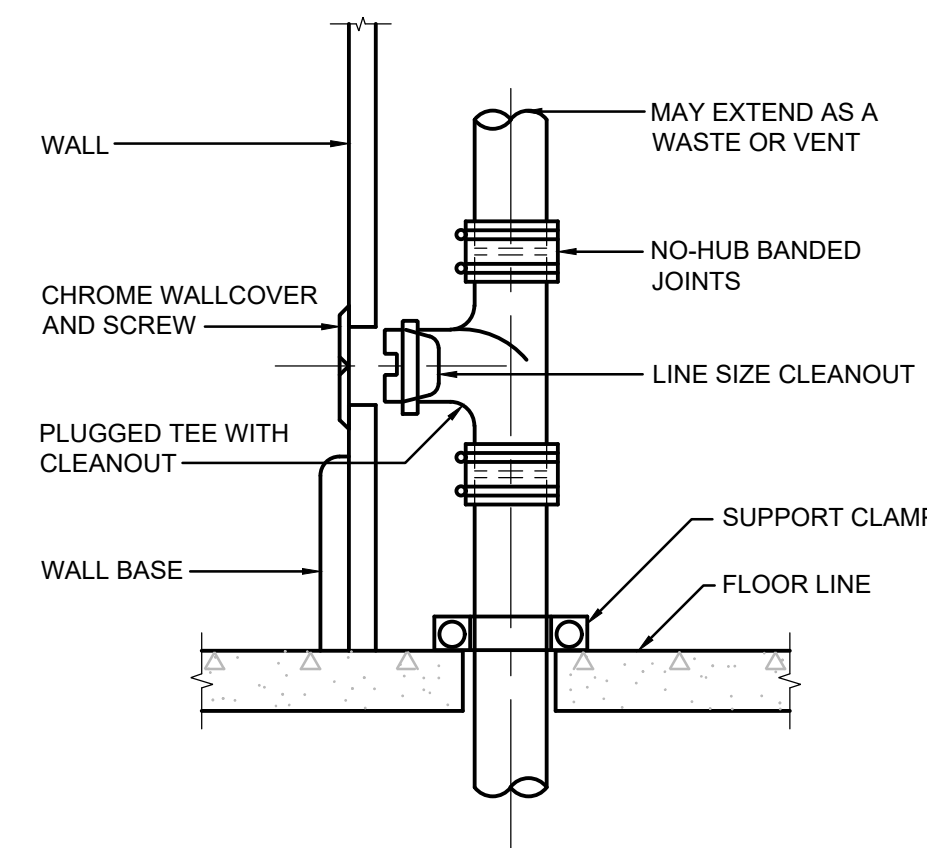
FLOOR PIPE SUPPORT DETAIL 5
NOT TO SCALE P6.2



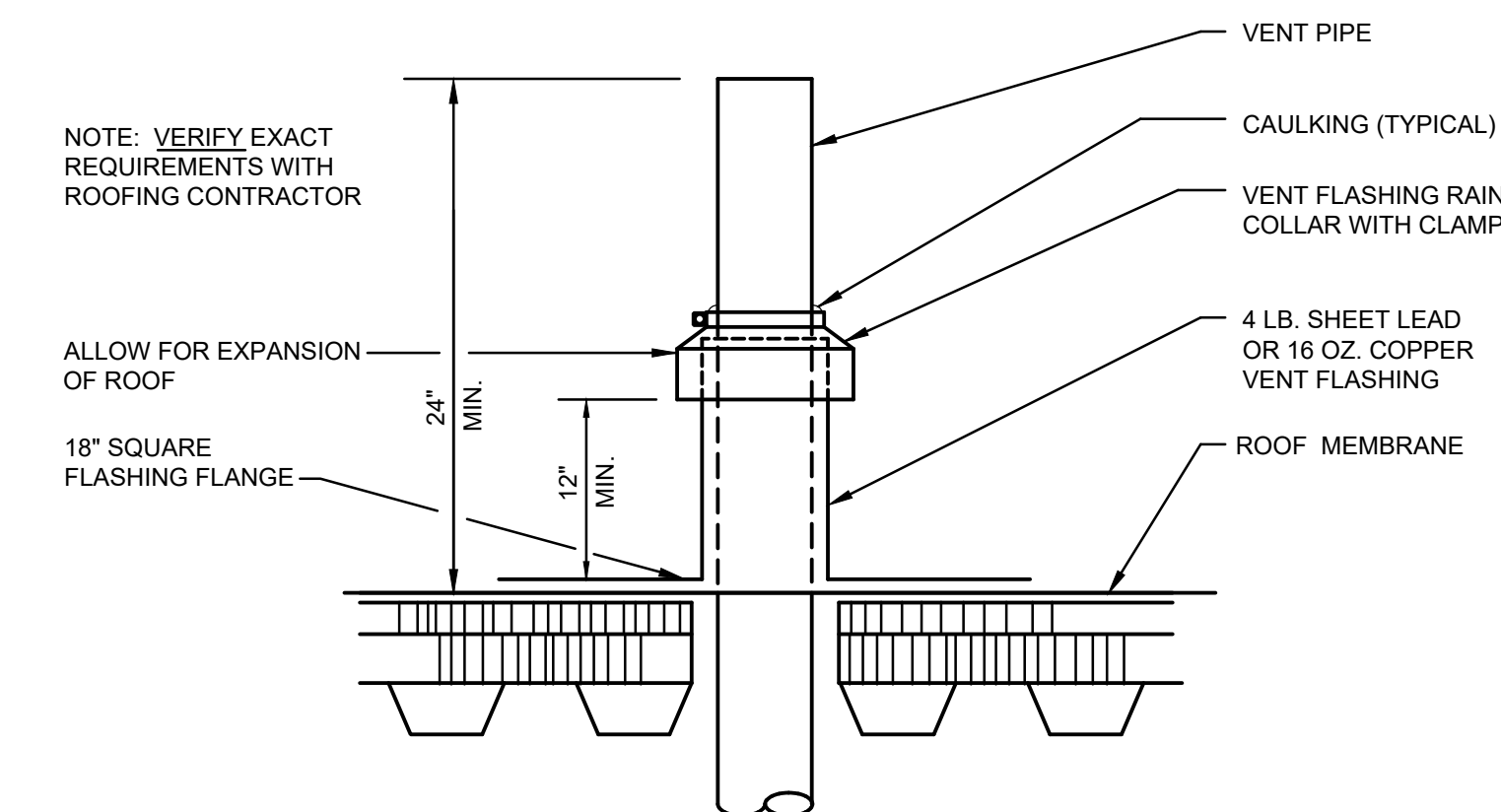
PIPE THRU ROOF PENETRATION DETAIL 2
NOT TO SCALE P6.2



WALL MOUNTED COPPER DOMESTIC WATER PIPE SUPPORT DETAIL 9
NOT TO SCALE P6.2

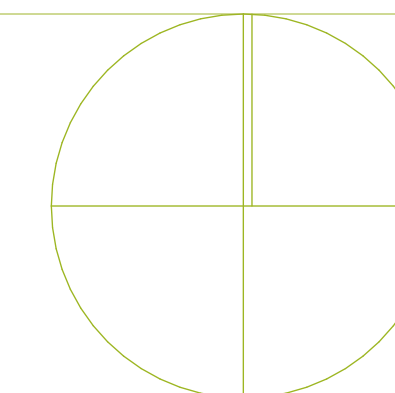


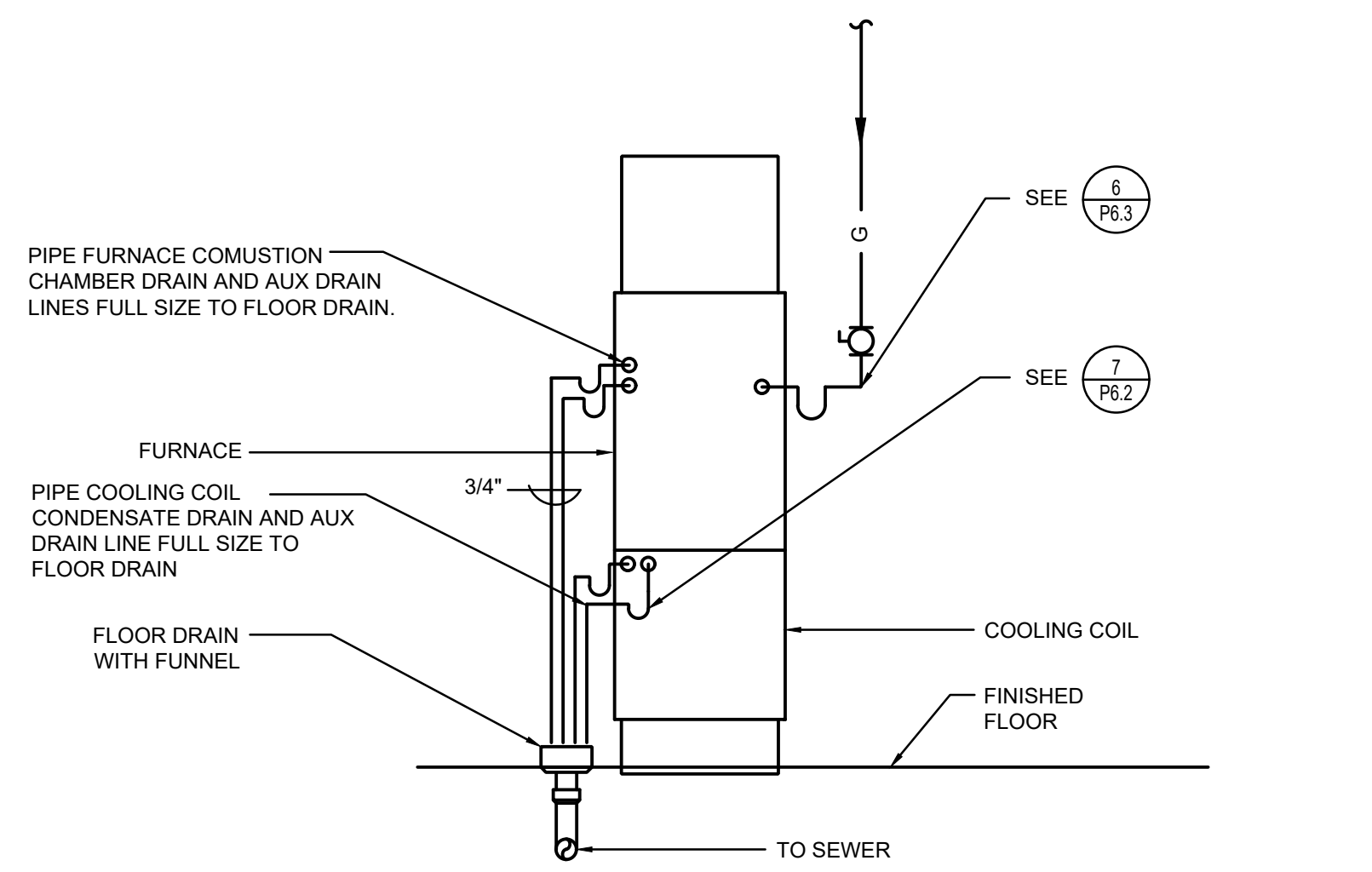
WALL CLEANOUT DETAIL 6
NOT TO SCALE P6.2



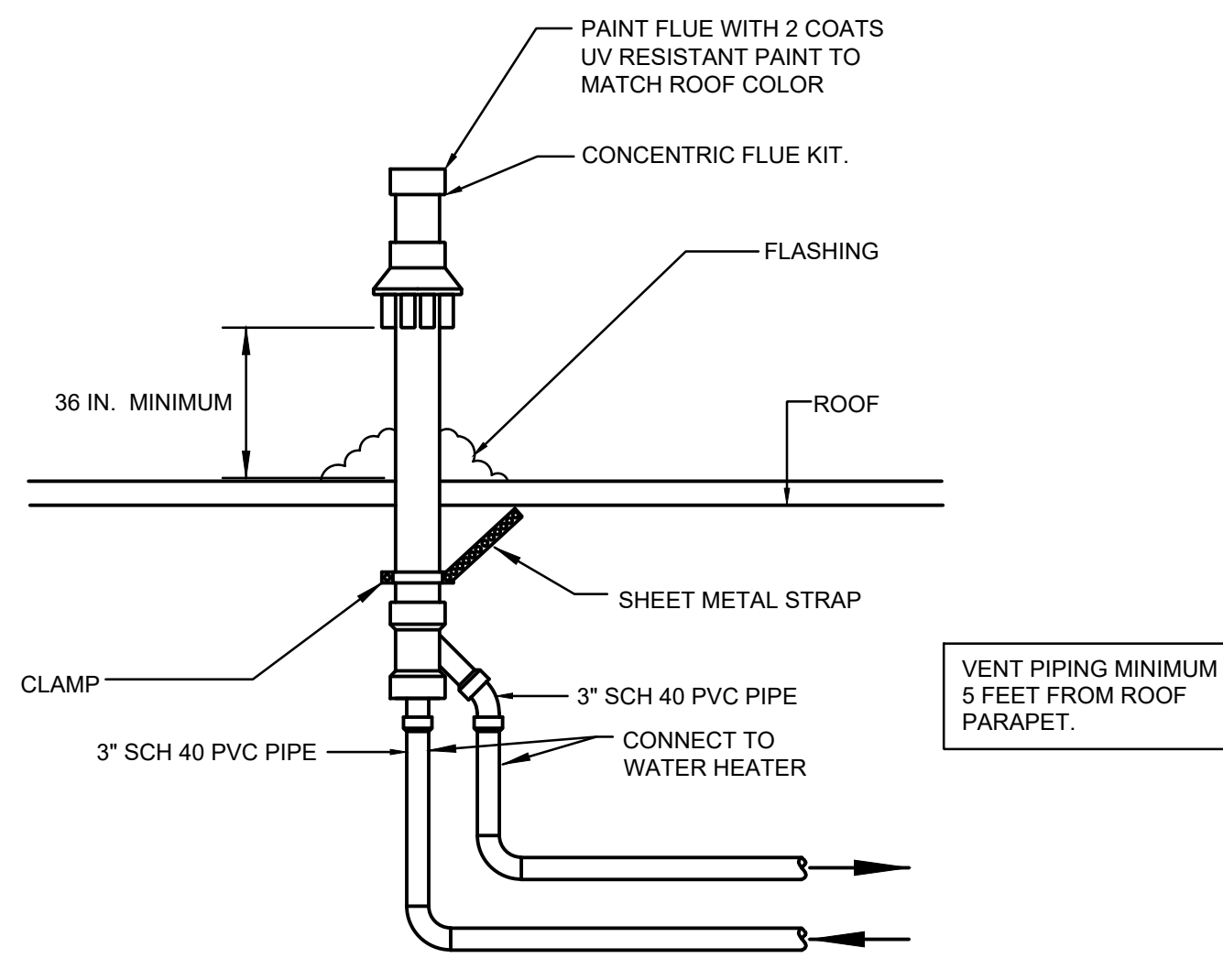
VENT THRU ROOF DETAIL 3
NOT TO SCALE P6.2

NO.	DATE	DESCRIPTION

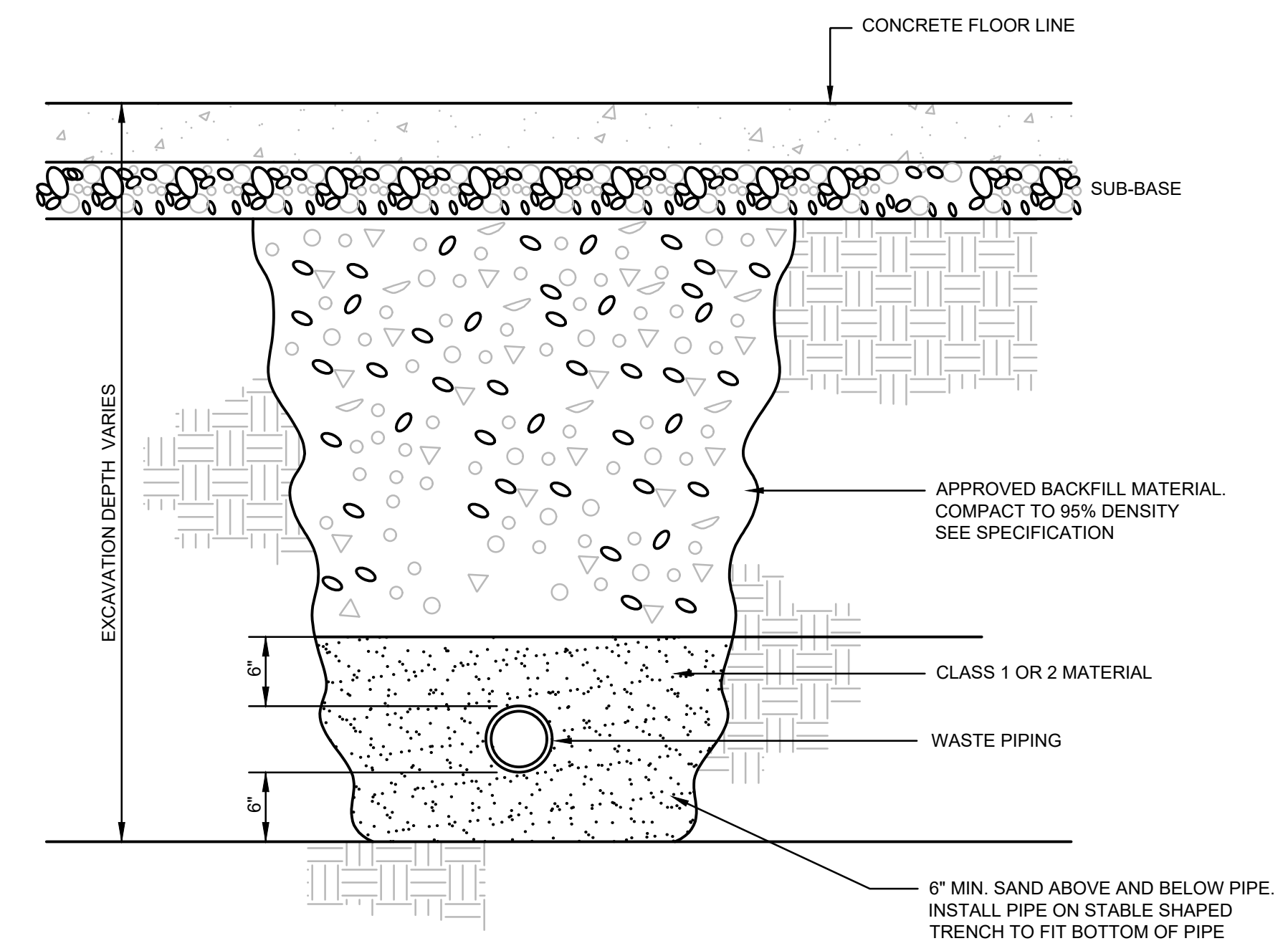




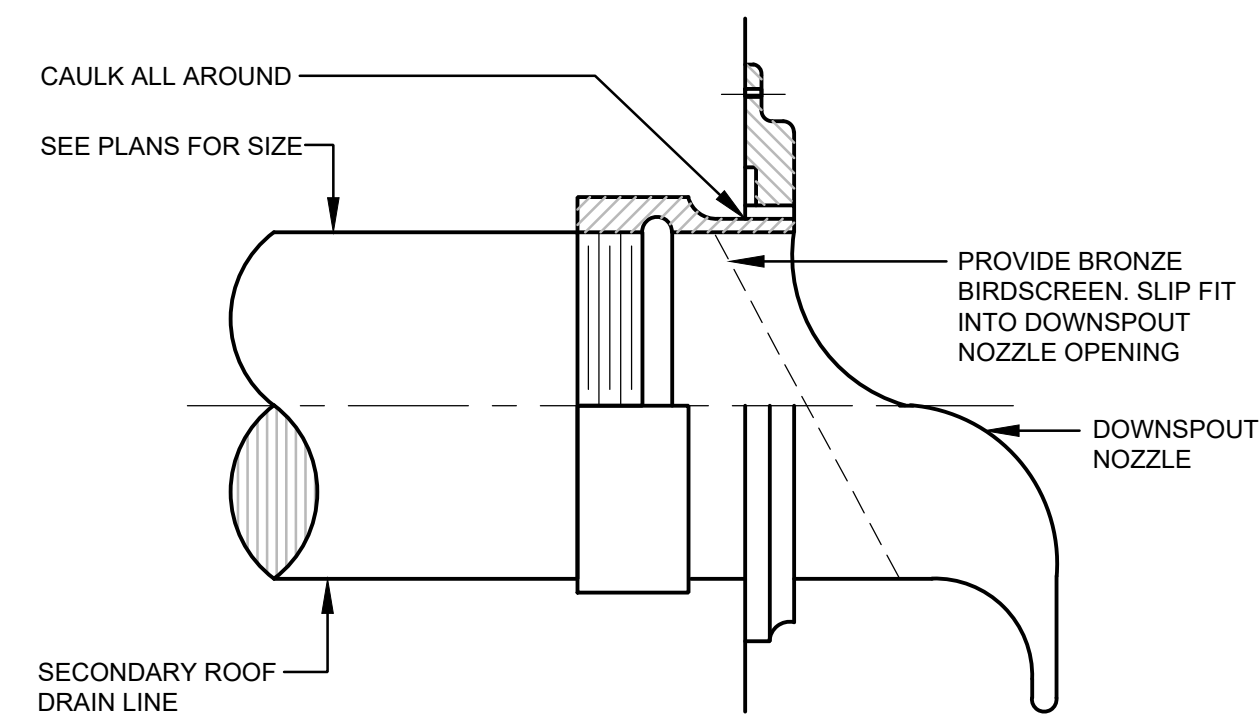
TYPICAL DOWNFLOW FURNACE PIPING DETAIL 7
NOT TO SCALE P6.3



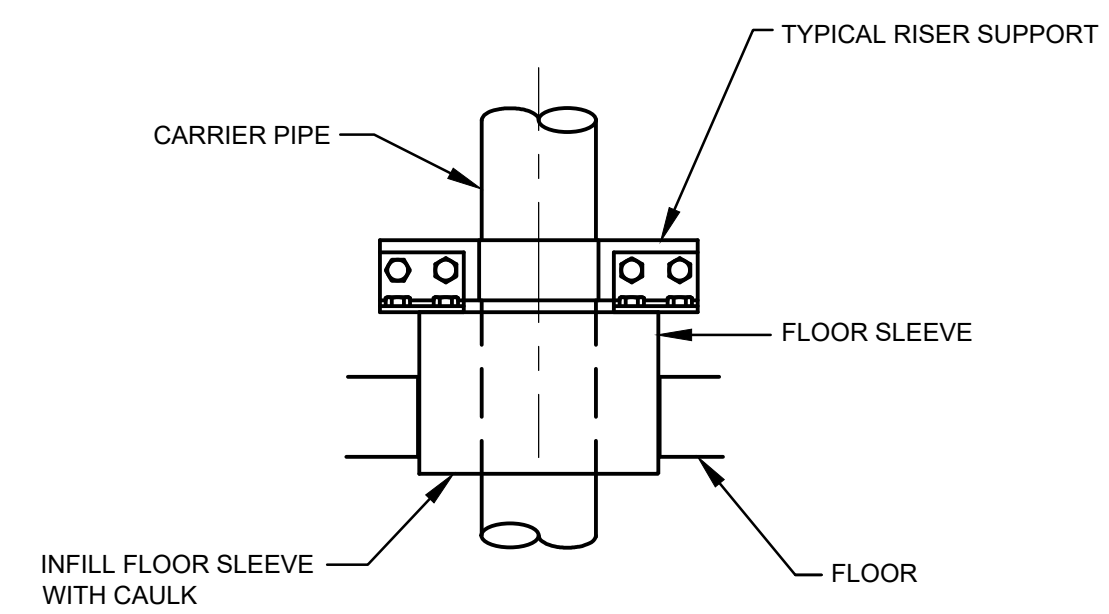
WATER HEATER VENTING DETAIL 4
NOT TO SCALE P6.3



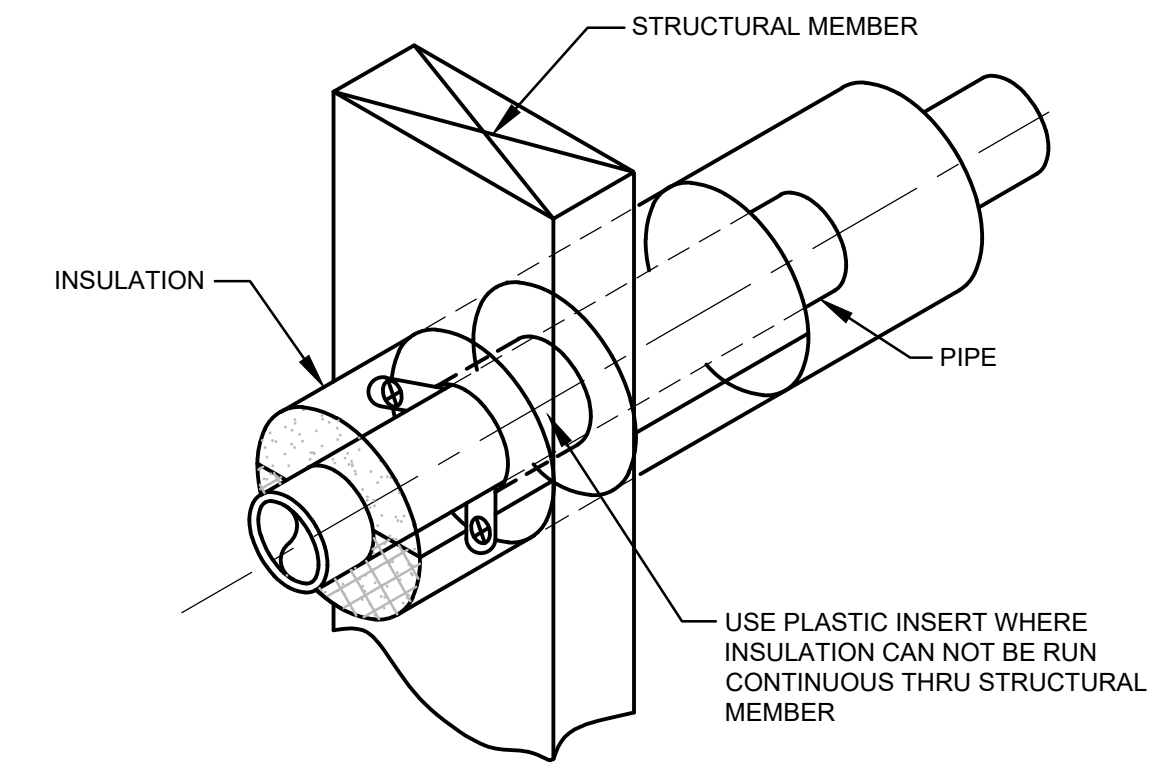
TYPICAL WASTE TRENCH DETAIL 1
NOT TO SCALE P6.3



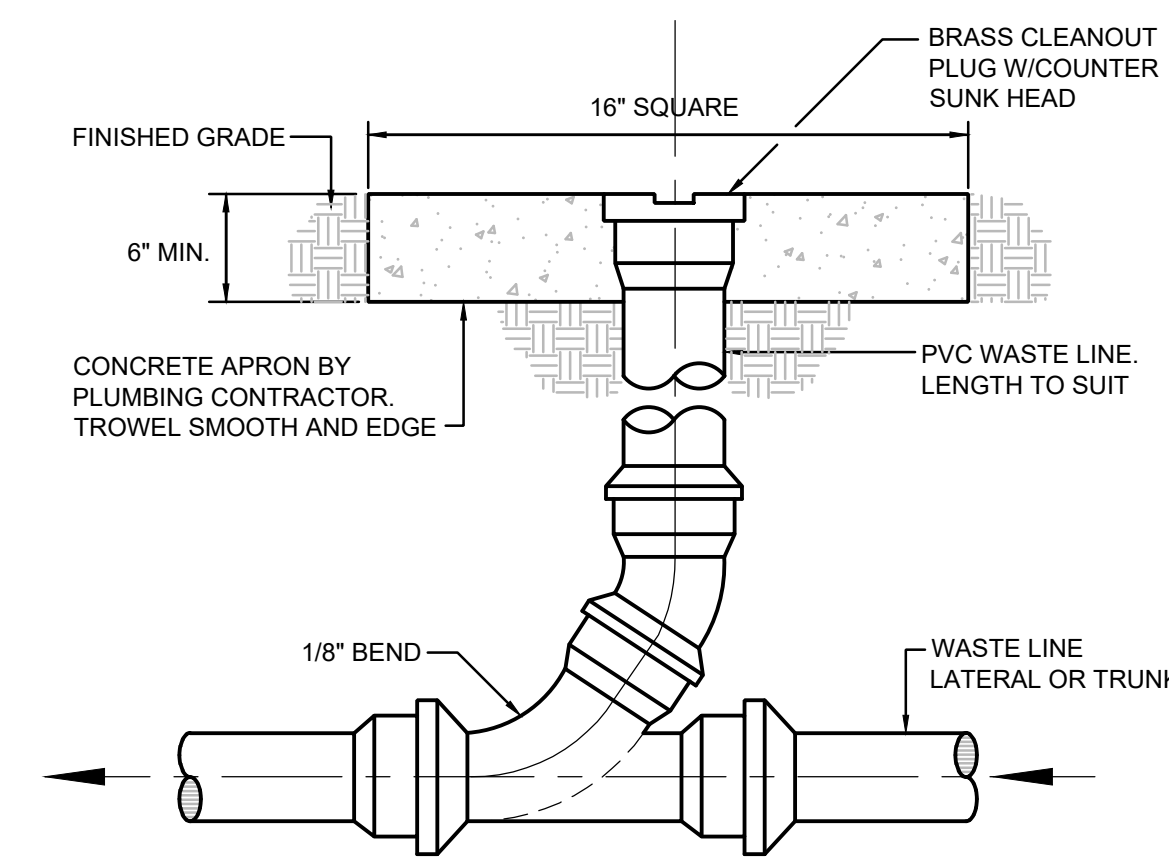
DOWNSPOUT NOZZLE DETAIL 8
NOT TO SCALE P6.3



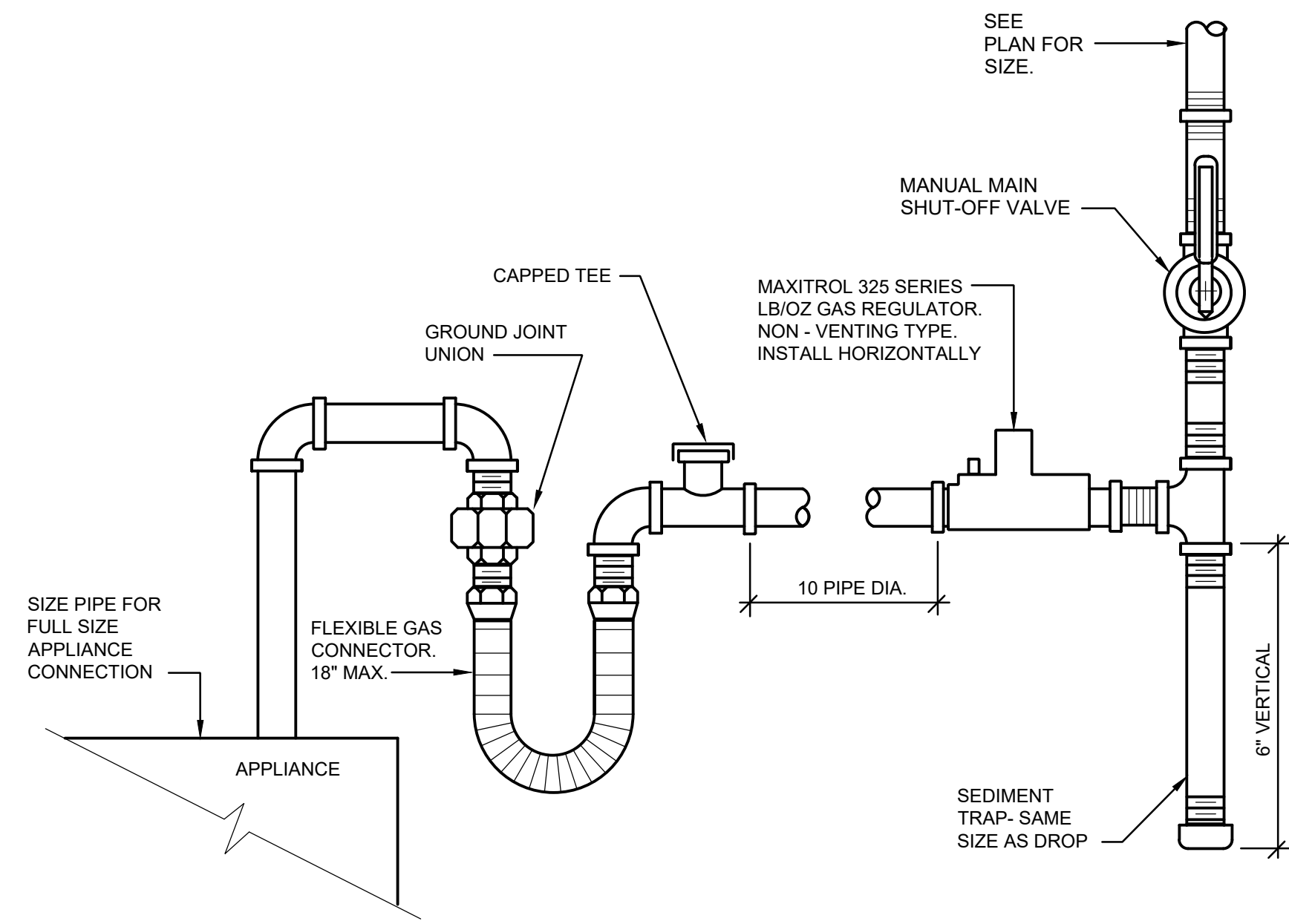
PIPE THROUGH FLOOR DETAIL 5
NOT TO SCALE P6.3



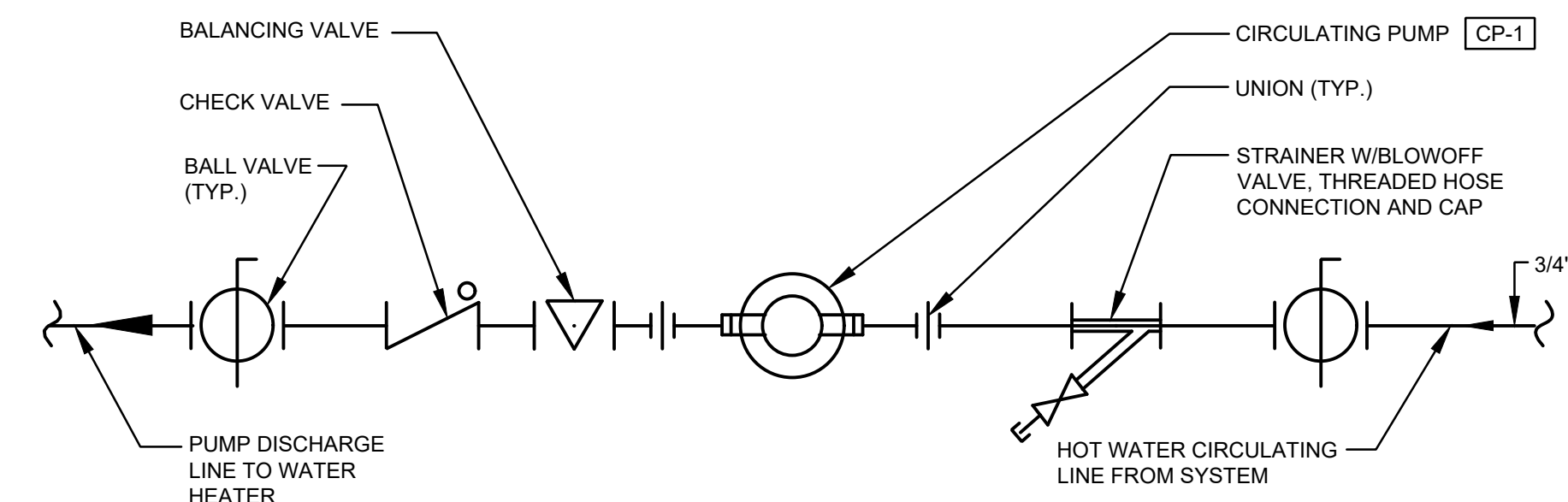
PIPE PENETRATION THROUGH STRUCTURE DETAIL 2
NOT TO SCALE P6.3



CLEANOUT TO GRADE DETAIL 9
NOT TO SCALE P6.3

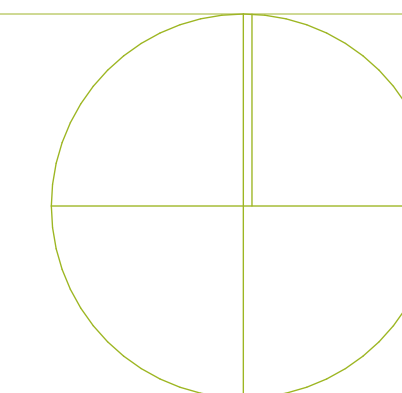


GAS PIPING CONNECTION DETAIL 6
NOT TO SCALE P6.3



CIRCULATING PUMP DETAIL 3
NOT TO SCALE P6.3

NO.	DATE	DESCRIPTION

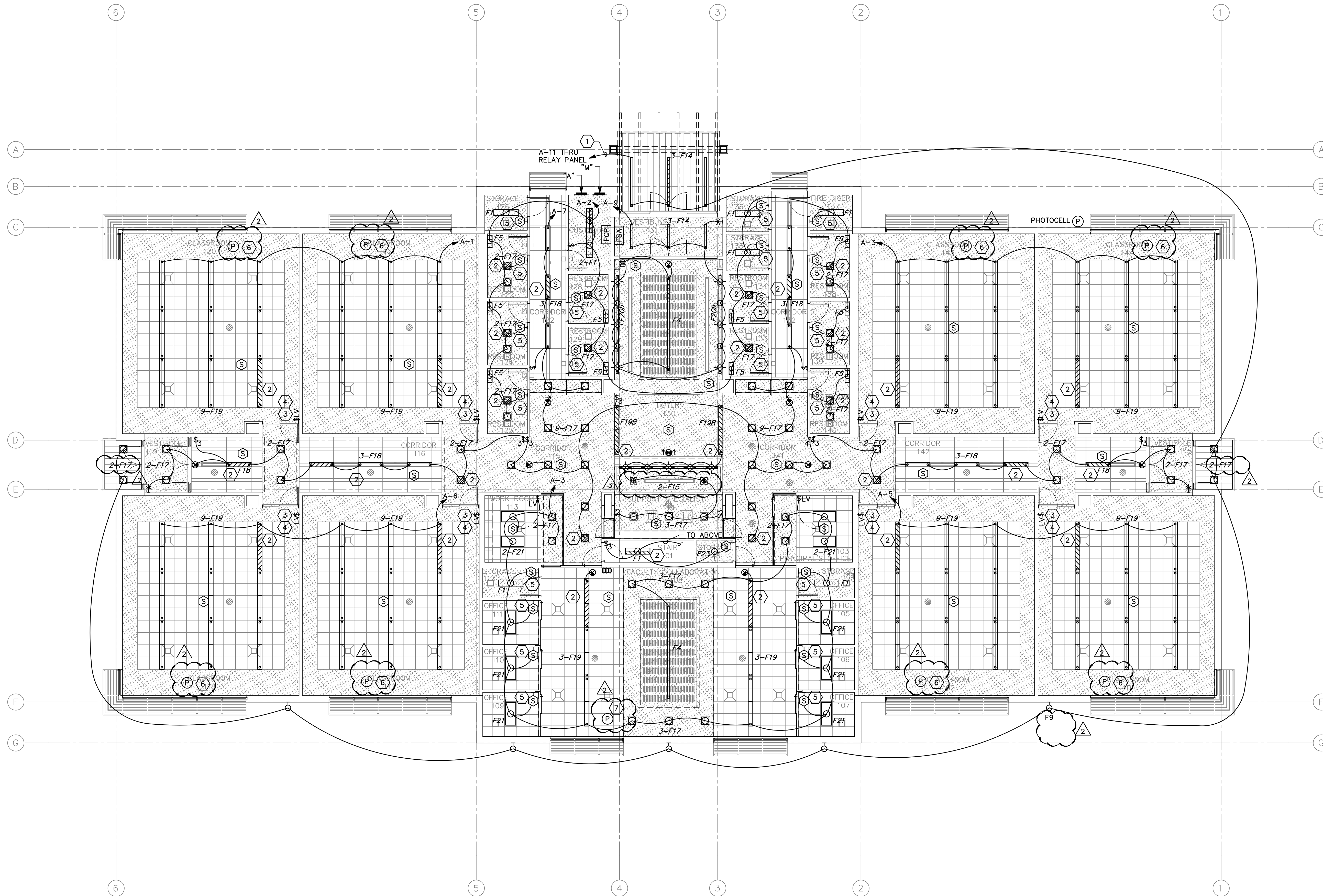


GENERAL SHEET NOTES

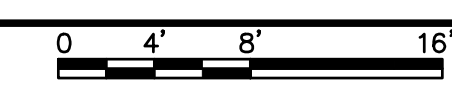
1. PROVIDE UNSWITCHED POWER TO EXIT SIGNS.

SHEET KEYNOTES

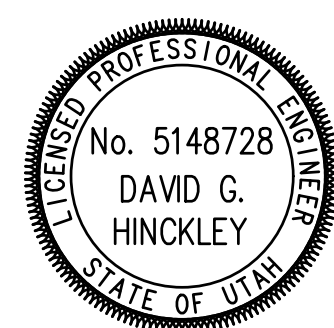
1. CIRCUIT EXTERIOR DOWNLIGHTS THROUGH INVERTER AND CONTROL THROUGH TIME SWITCH AND PHOTOCELL. TIME SWITCH LOCATED IN FIRE RISER 104. SEE LIGHTING CONTROL DIAGRAM SHEET EE601.
2. PROVIDE UNSWITCHED POWER TO EMERGENCY BATTERY PACK. USE SAME CIRCUIT PROVIDED FOR NORMAL LIGHTING IN SAME SPACE.
3. PROVIDE ROOM CONTROLLER WITH 0-10V DIMMING ZONE. CONNECT ROOM OCCUPANCY SENSOR AND WALL STATION TO THIS ROOM CONTROLLER. LOCATE SWITCHES AS CLOSE TO CORNER AS POSSIBLE. SEE ARCHITECTURAL DRAWINGS. WHEN ENTERING ROOM, PROGRAM ROOM CONTROLLER TO TURN ON LIGHTING TO 100%.
4. PROVIDE 4 BUTTON WALL STATION TO CONTROL ROOM LIGHTING AND CONNECT TO ROOM CONTROLLER WITH CONTROL WIRING PER MANUFACTURER'S REQUIREMENTS. THE 4 BUTTONS SHALL BE LABELED "ON", "50%", "25%" AND "OFF". ADJUST LIGHT LEVELS TO THESE LEVELS AND PROGRAM PRESETS FOR THESE 4 BUTTONS.
5. VACANCY SENSOR WALL SWITCH TO CONTROL LIGHTS. SET SENSITIVITY AND TIME DELAY OF SENSOR AT MAXIMUM (20 MINUTES).
6. CONNECT PHOTOCELL TO ROOM CONTROLLER (NOTED IN KEYNOTE #3) AND DIM LIGHTING (8' OF FIXTURE) CLOSEST TO WINDOW.
7. PROVIDE PHOTOCELL AND ROOM CONTROLLER TO CONTROL LIGHTING NEAR WINDOW IN THIS ROOM (3 RECESSED DOWNLIGHTS AND 8' SECTION OF F19 LIGHT).



1 1ST LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'-0"



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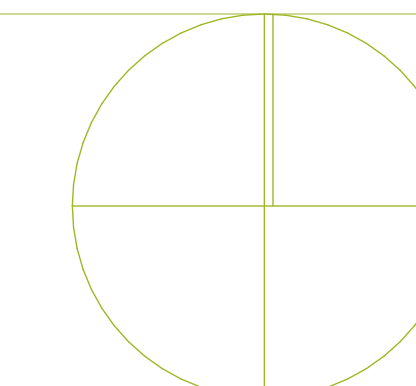


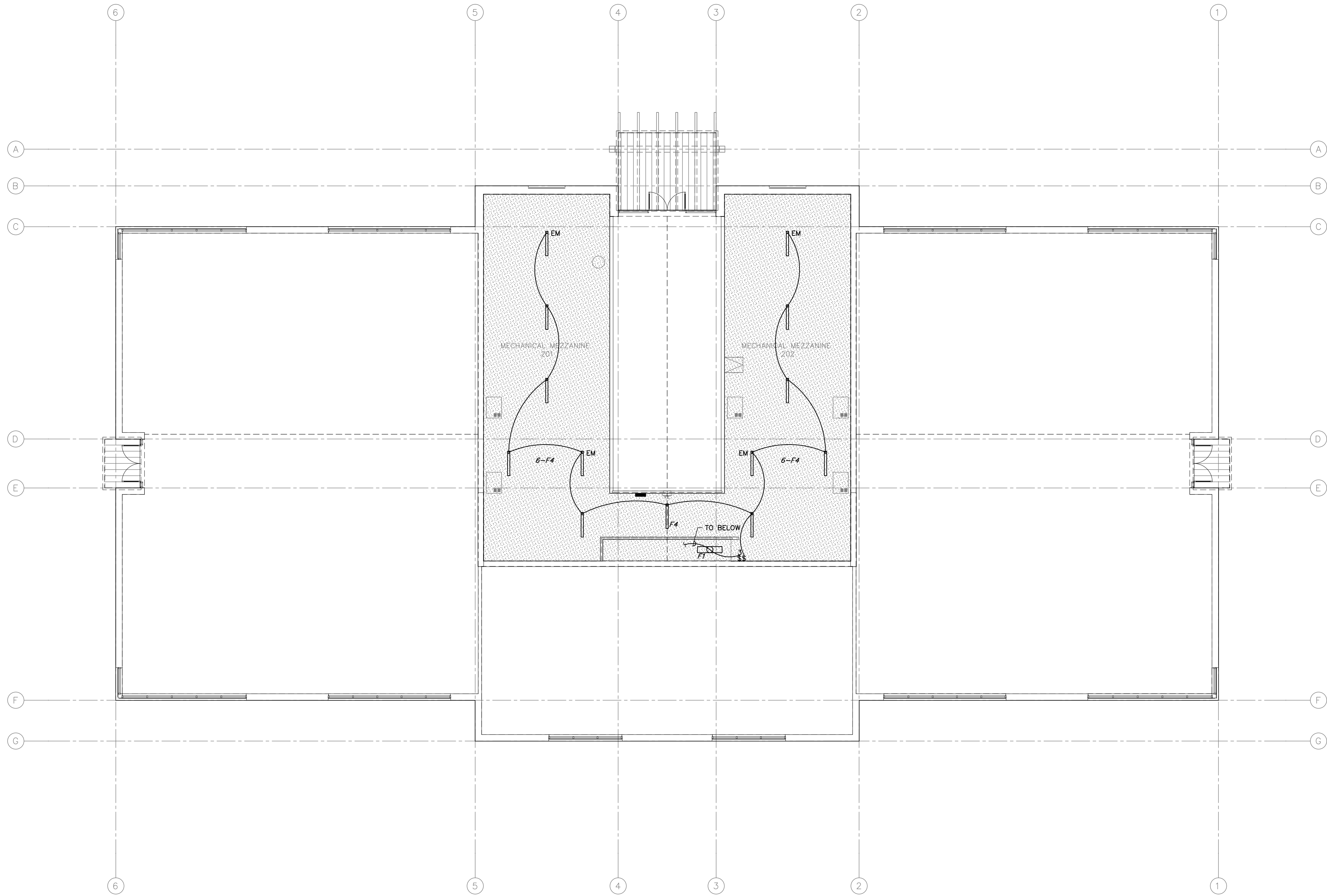
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NO.	DATE	DESCRIPTION
05	04.27.23	PR 01
04	03.31.23	PERMIT REVIEW COMMENTS
02	02.10.23	Addendum 02

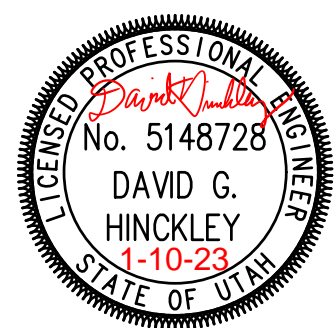
CONFORMED SET
DATE: 04.27.23
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1 2ND LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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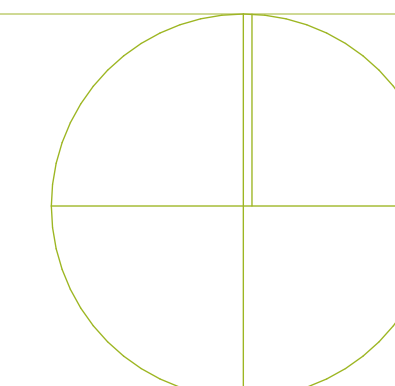


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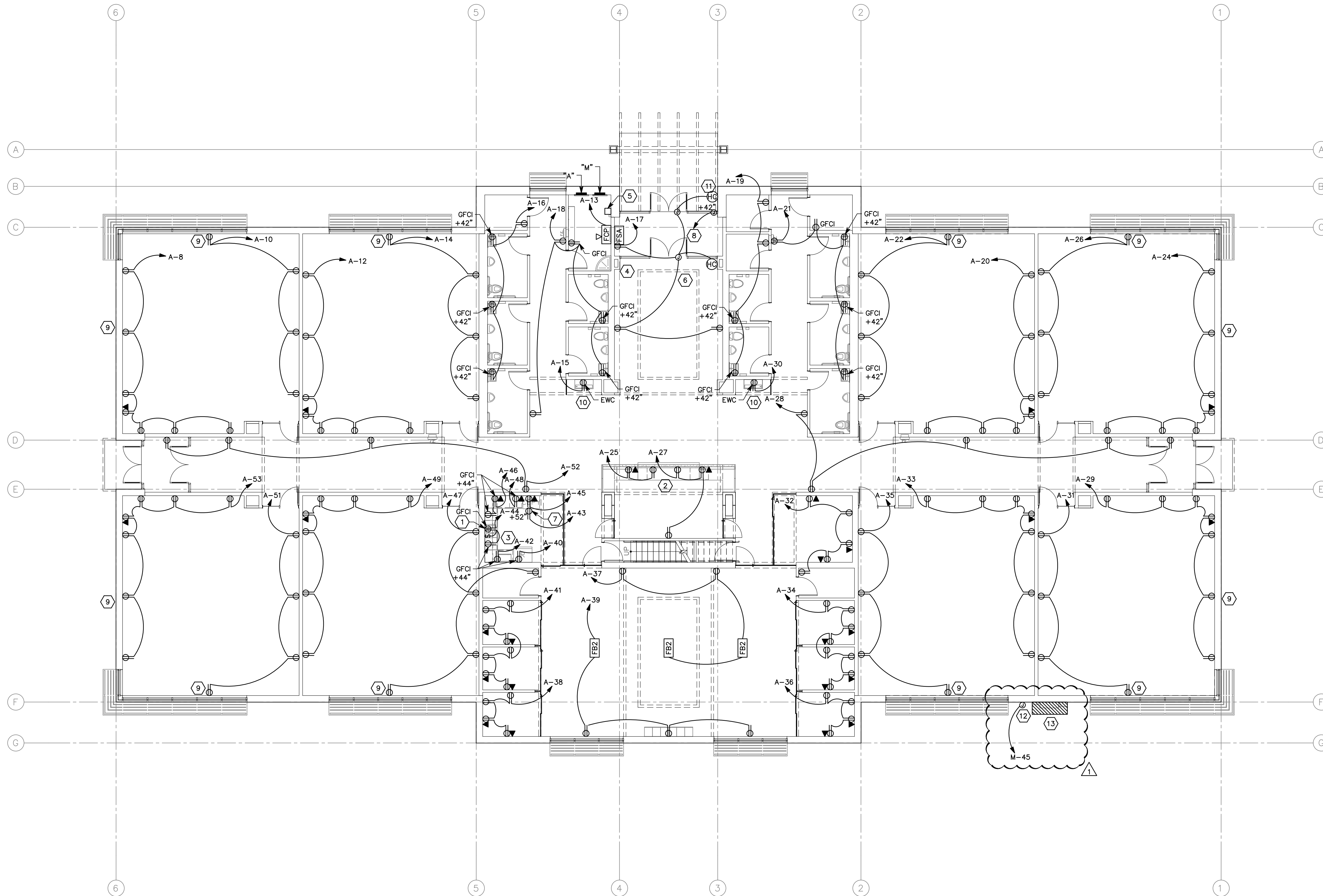
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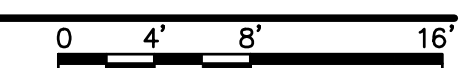


SHEET KEYNOTES

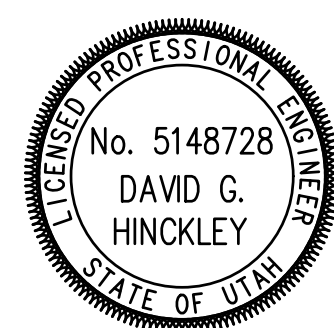
1. MOUNT OUTLET UNDER SINK FOR DISPOSER. OUTLET TO BE SWITCHED AS SHOWN. LABEL SWITCH "DISPOSER".
2. SEE ELEVATIONS ON ARCHITECTURAL SHEETS.
3. COORDINATE OUTLET LOCATIONS WITH ARCHITECTURAL ELEVATIONS.
4. AUTOMATIC DOOR ACTIVATING SWITCH FURNISHED BY OTHERS. PROVIDE 4" SQUARE, 2 1/8" DEEP BOX AND LEAVE EXTRA CONDUCTOR LENGTH FOR CONNECTION. SWITCHES TO SIMULTANEOUSLY CONTROL BOTH LEFT LEAVES OF DOORS AS SHOWN.
5. PROVIDE RELAY PANEL (4 CIRCUIT WATTSTOPPER PEANUT PANEL OR EQUAL BY WAVELINX, LUTRON, ACUITY, LEVITON).
6. PROVIDE CONNECTIONS FROM MULLION MOUNTED ADA ACTUATOR TO POWER SUPPLY ABOVE THE DOOR. WIRING TO RUN INSIDE OF MULLION.
7. CENTRAL A/V CABINET.
8. PROVIDE 0.75" CONDUIT TO PHONE BOARD FROM TOP OF DOOR.
9. COORDINATE INSTALLATION OF BOXES IN EXTERIOR WALLS TO MINIMIZE INTERRUPTION OF AIR FILTRATION BARRIER. SEAL ALL PENETRATIONS.
10. REFER TO SHEET ME101, ME701, & ME702 FOR DIVISION 26 REQUIREMENTS FOR CONDUIT AND BOXES.
11. PROVIDE J-BOX IN WALL WITH CONTROL WIRING TO DOOR POWER SUPPLY RUN IN 0.5" CONDUIT.
12. PROVIDE CONNECTIONS TO IRRIGATION CONTROLLER/WEATHER TRACK CONTROLLER.
13. "MDP", CT CABINET AND METER.



1 1ST LEVEL POWER PLAN
SCALE: 1/8" = 1'-0"



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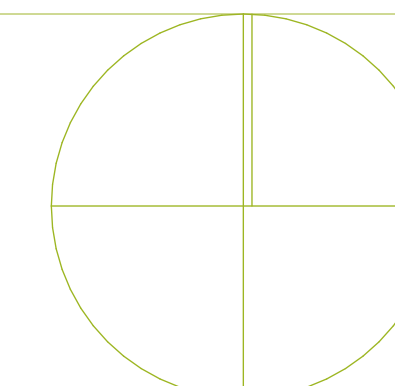


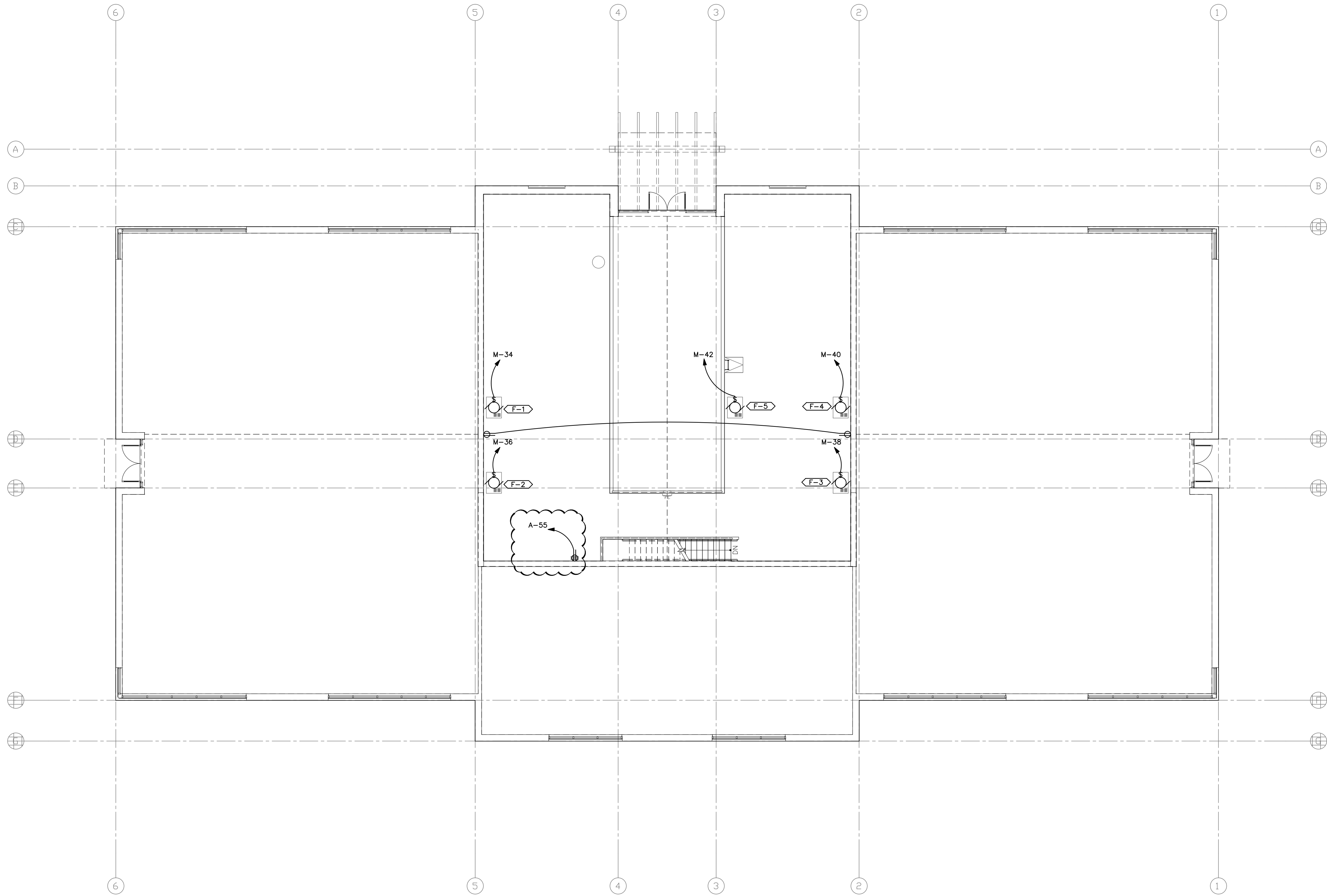
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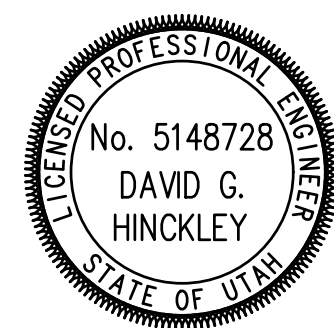




1 2ND LEVEL POWER PLAN
SCALE: 1/8" = 1'-0"



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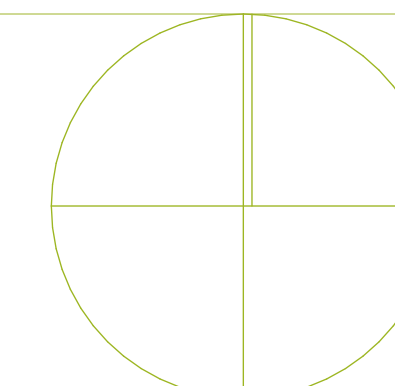


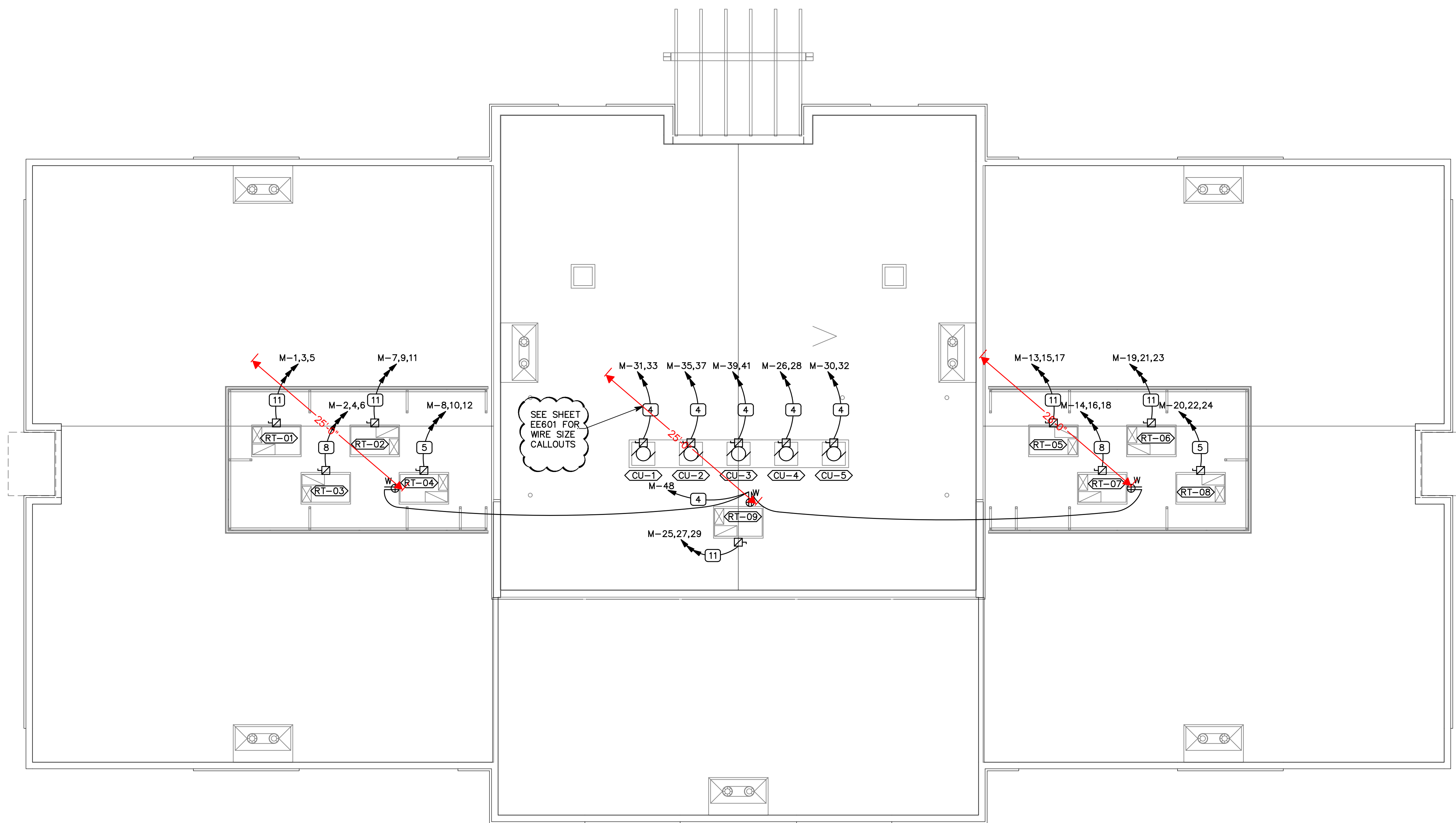
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1 ROOF POWER PLAN

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



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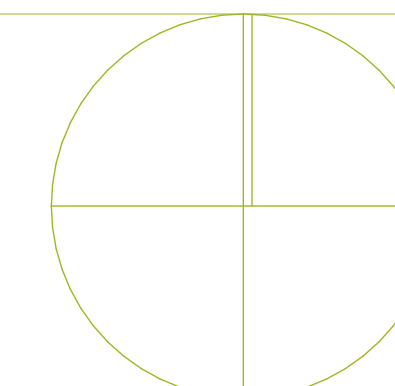
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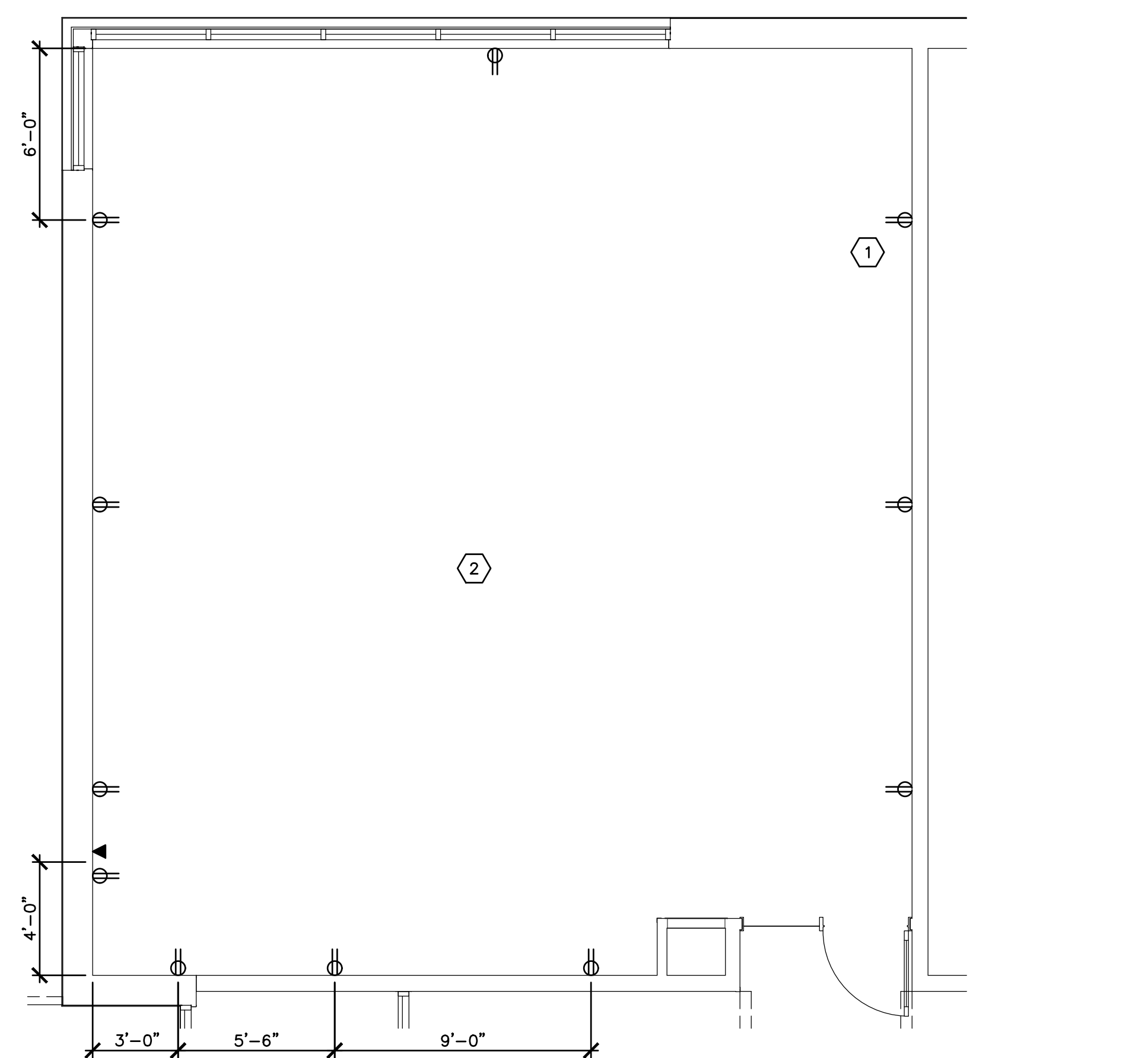
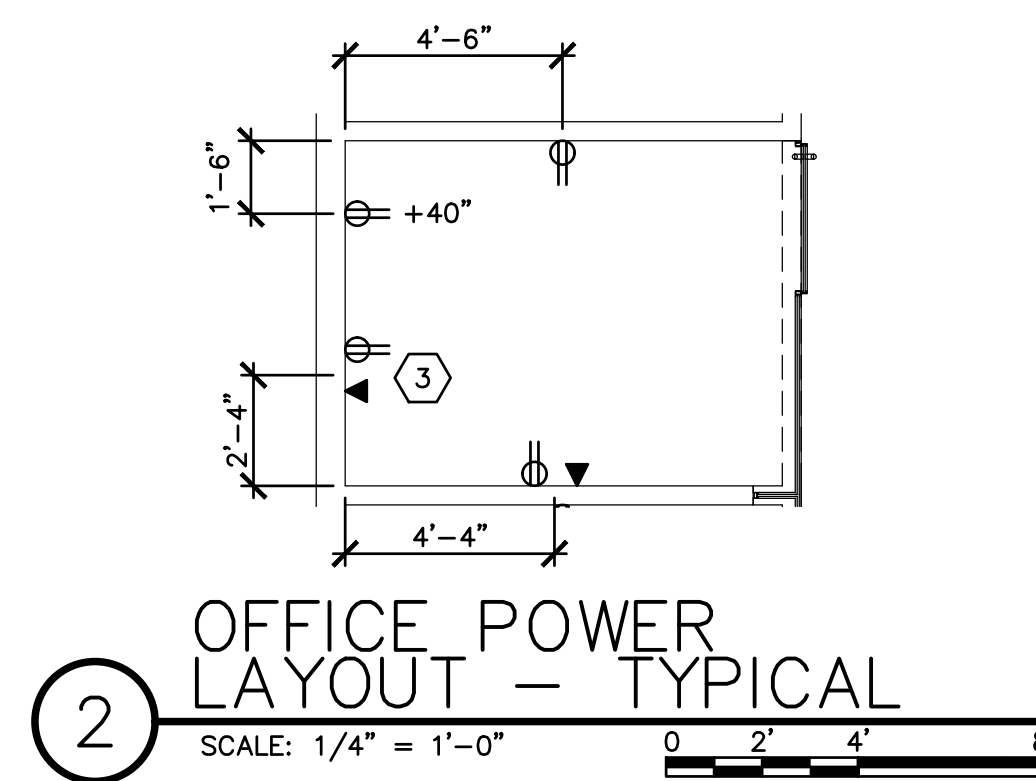
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SHEET KEYNOTES

1. OUTLETS NOT SHOWN DIMENSIONED MAY BE PLACED IN APPROXIMATE AREA SHOWN IN FLOOR PLAN.
2. COORDINATE LOCATION OF OUTLET IN CEILING WITH OVERHEAD PROJECTOR INSTALLER.
3. OUTLETS LOCATED IN KNEE SPACE.



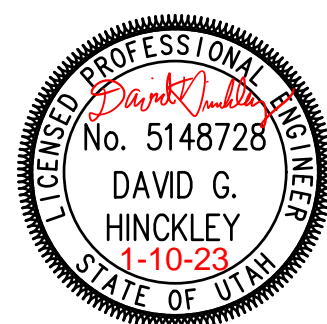
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CLASSROOM POWER LAYOUT - TYPICAL

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



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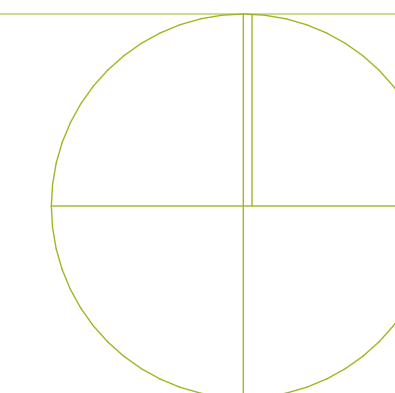
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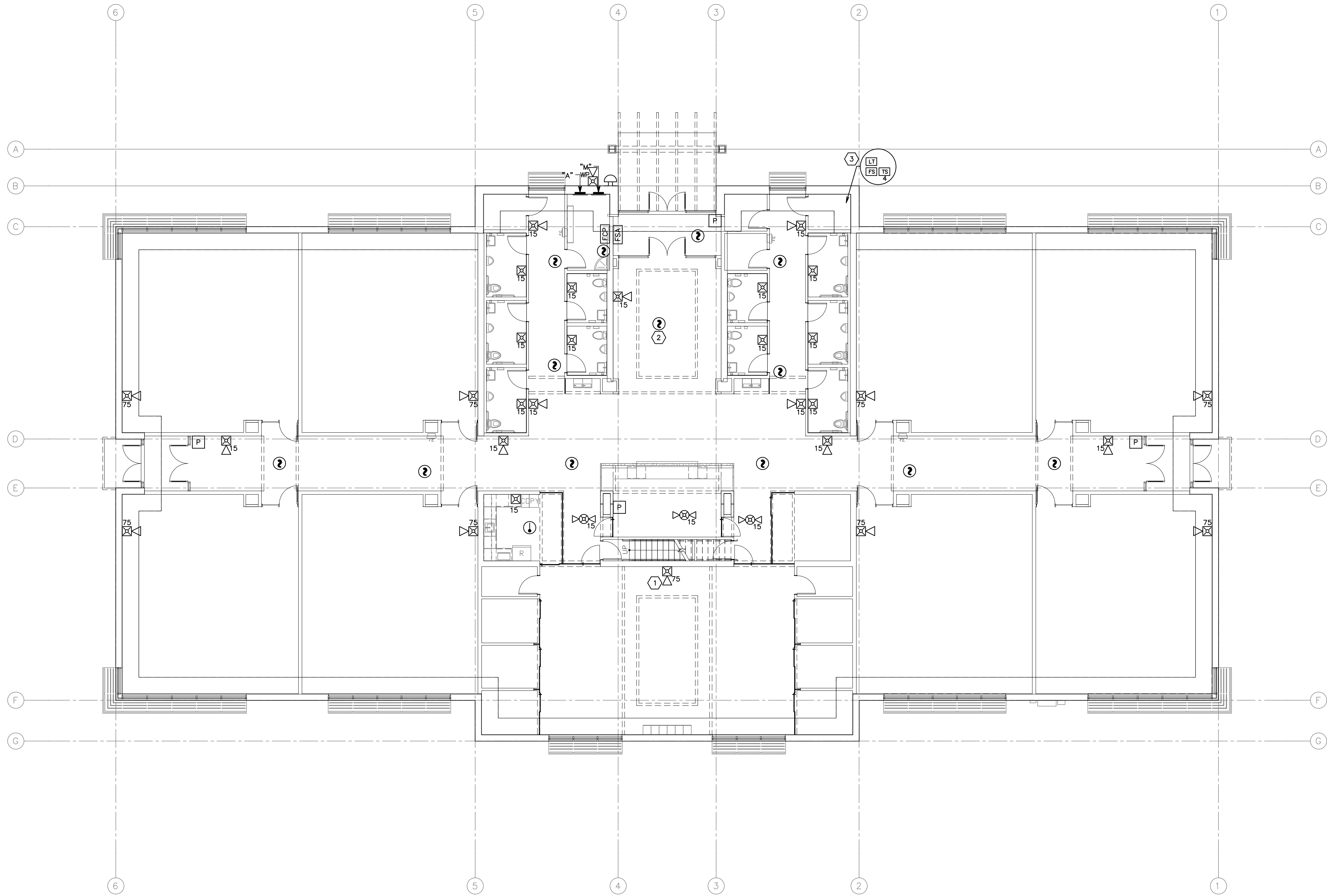


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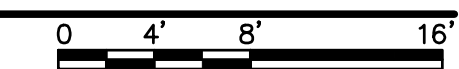




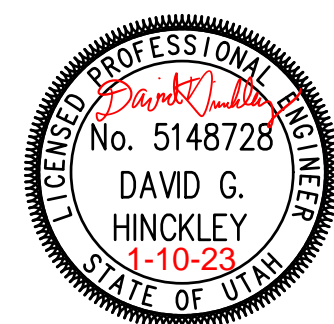
SHEET KEYNOTES

1. COORDINATE FIRE ALARM DEVICES WITH LIGHTING FIXTURES, SPEAKERS, GRILLS, ETC.
2. DO NOT INSTALL SMOKE DETECTORS WITHIN 3' OF ANY MECHANICAL GRILL.
3. SEE RISER DETAIL L/FSS01 AND SHEET FS101, VERIFY THE NUMBER OF VALVE TAMPER SWITCHES – ONE FOR EACH VALVE.

1 1ST LEVEL FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



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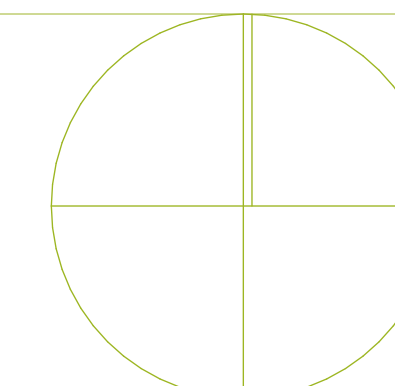


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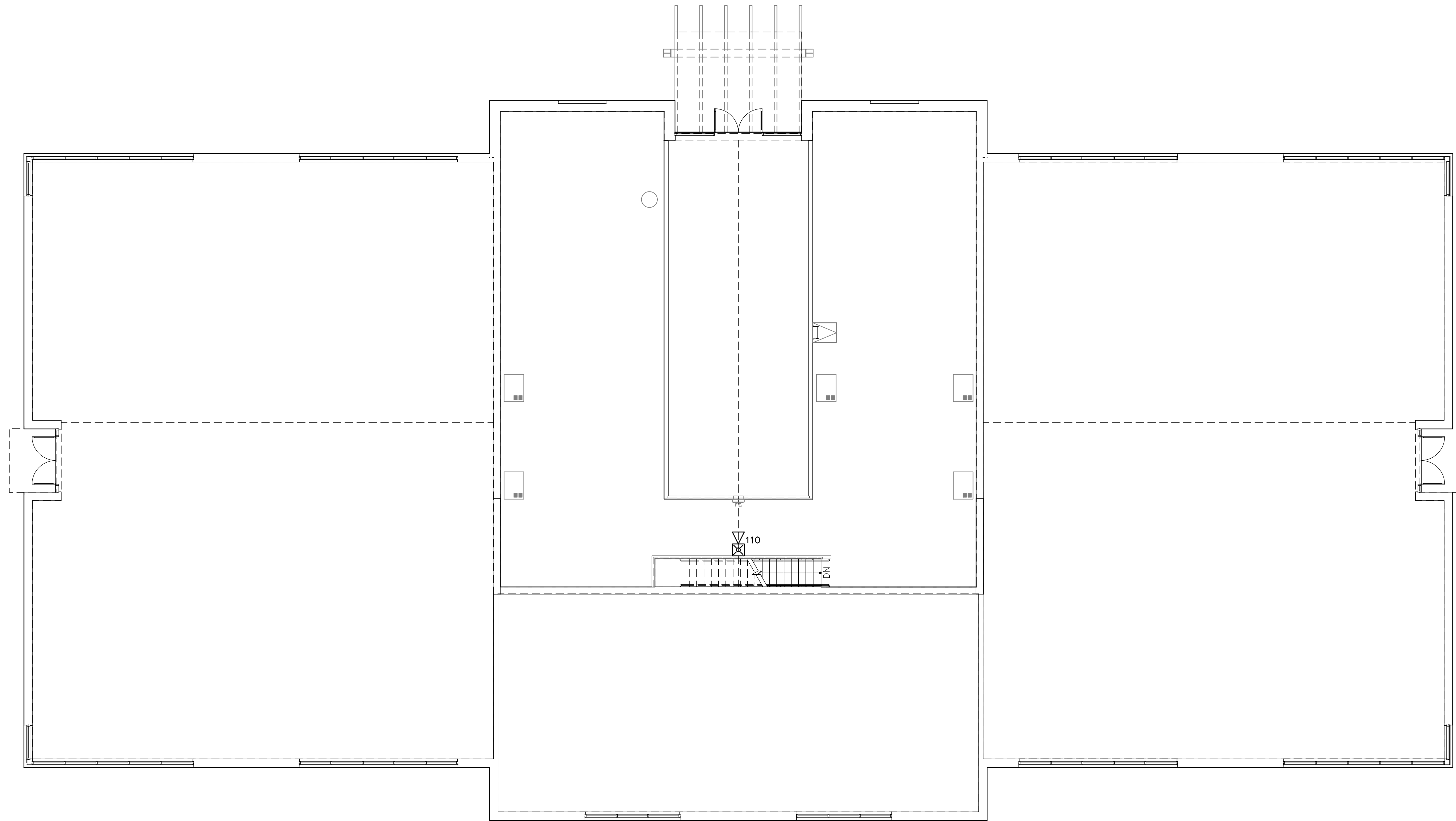
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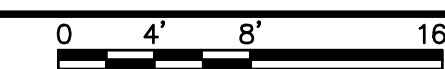
1ST LEVEL FIRE ALARM PLAN

FA101

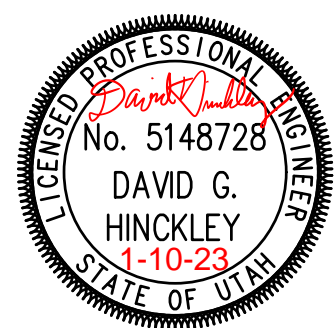


1 2ND LEVEL FIRE ALARM PLAN

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



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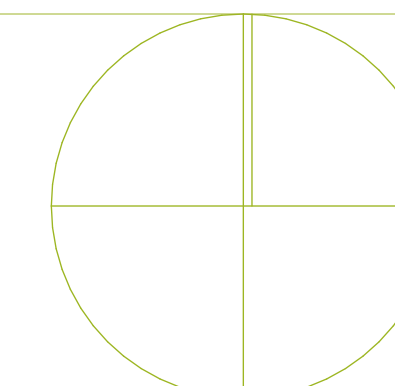


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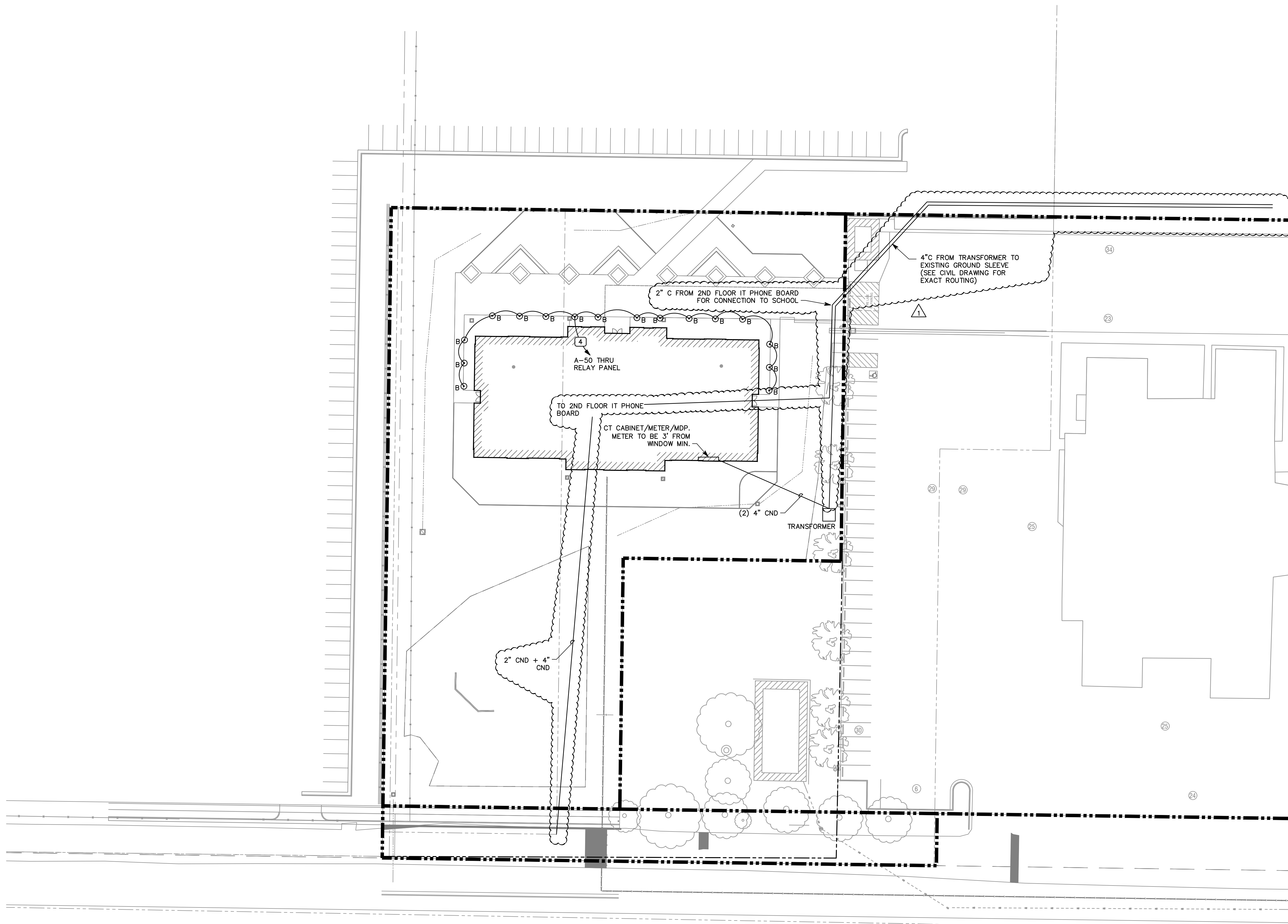
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PROJECT NUMBER: 2154



2ND LEVEL FIRE ALARM PLAN

FA102

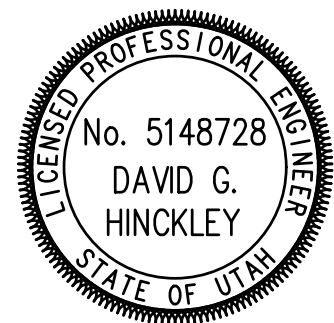


1 ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"



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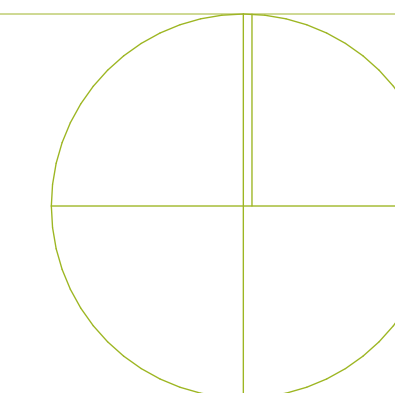


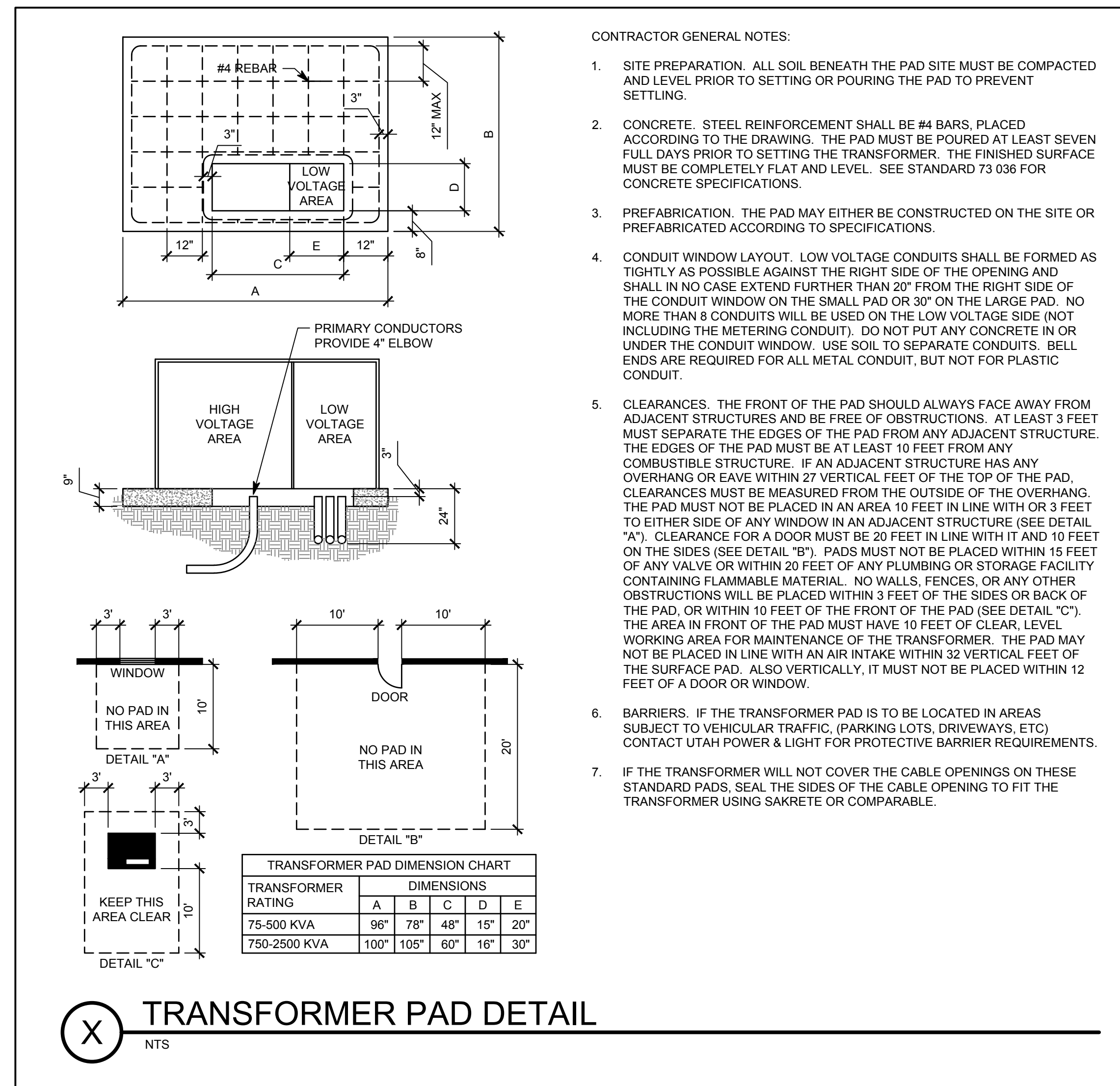
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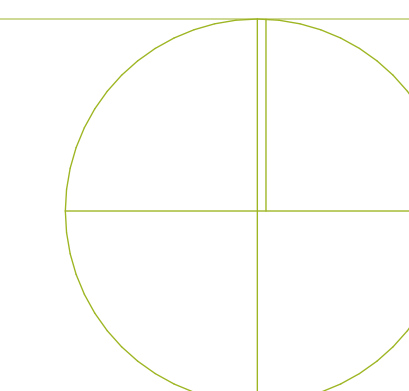


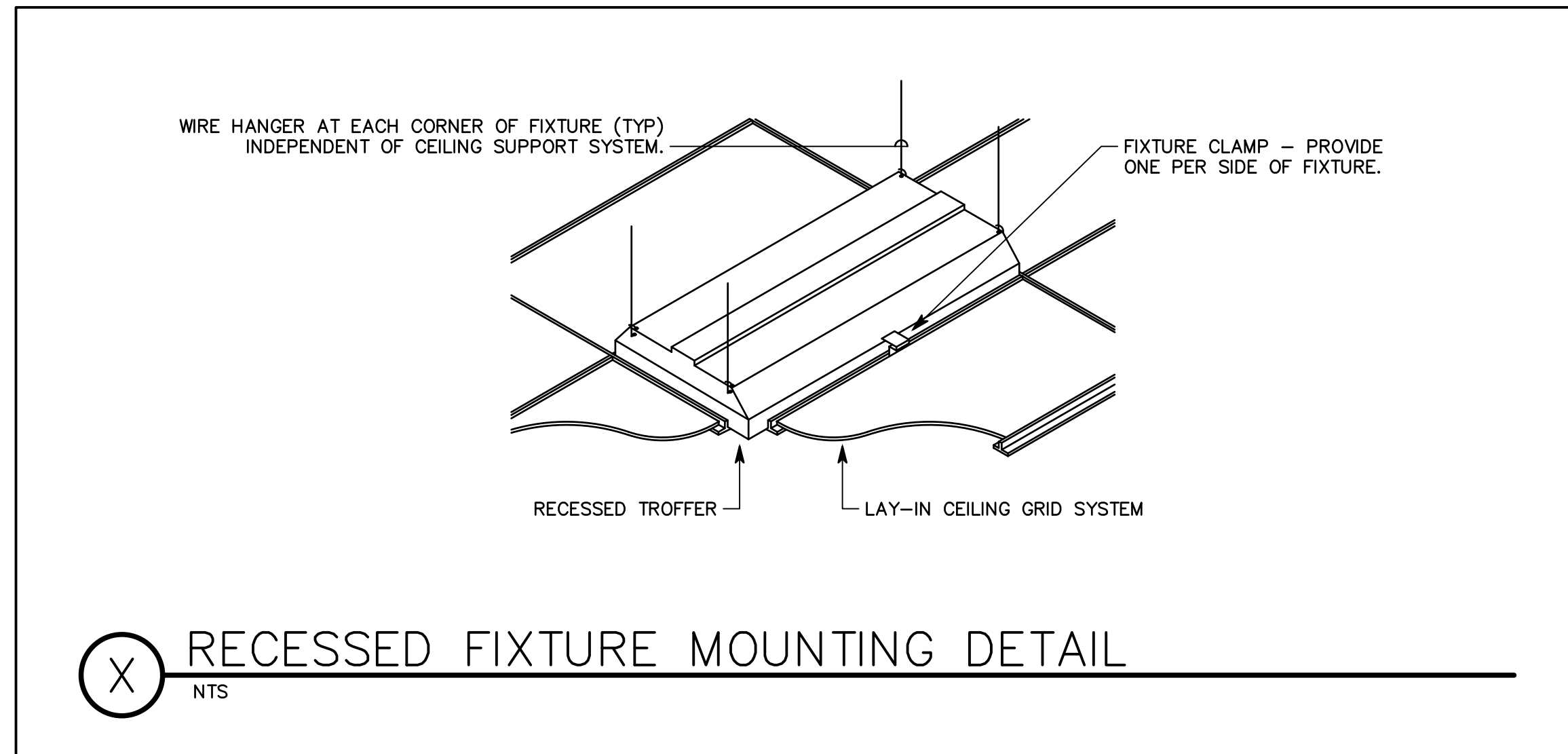
CONTRACTOR GENERAL NOTES:

1. SITE PREPARATION. ALL SOIL BENEATH THE PAD SITE MUST BE COMPACTED AND LEVEL PRIOR TO SETTING OR POURING THE PAD TO PREVENT SETTLING.
2. CONCRETE. STEEL REINFORCEMENT SHALL BE #4 BARS, PLACED ACCORDING TO THE DRAWING. THE PAD MUST BE POURED AT LEAST SEVEN FULL DAYS PRIOR TO SETTING THE TRANSFORMER. THE FINISHED SURFACE MUST BE COMPLETELY FLAT AND LEVEL. SEE STANDARD 73 036 FOR CONCRETE SPECIFICATIONS.
3. PREFABRICATION. THE PAD MAY EITHER BE CONSTRUCTED ON THE SITE OR PREFABRICATED ACCORDING TO SPECIFICATIONS.
4. CONDUIT WINDOW LAYOUT. LOW VOLTAGE CONDUITS SHALL BE FORMED AS TIGHTLY AS POSSIBLE AGAINST THE RIGHT SIDE OF THE OPENING AND SHALL IN NO CASE EXTEND FURTHER THAN 20" FROM THE RIGHT SIDE OF THE CONDUIT WINDOW ON THE SMALL PAD OR 30" ON THE LARGE PAD. NO MORE THAN 8 CONDUITS WILL BE USED ON THE LOW VOLTAGE SIDE (NOT INCLUDING THE METERING CONDUIT). DO NOT PUT ANY CONCRETE IN OR UNDER THE CONDUIT WINDOW. USE SOIL TO SEPARATE CONDUITS. BELL ENDS ARE REQUIRED FOR ALL METAL CONDUIT, BUT NOT FOR PLASTIC CONDUIT.
5. CLEARANCES. THE FRONT OF THE PAD SHOULD ALWAYS FACE AWAY FROM ADJACENT STRUCTURES AND BE FREE OF OBSTRUCTIONS. AT LEAST 3 FEET MUST SEPARATE THE EDGES OF THE PAD FROM ANY ADJACENT STRUCTURE. THE EDGES OF THE PAD MUST BE AT LEAST 10 FEET FROM ANY COMBUSTIBLE STRUCTURE. IF AN ADJACENT STRUCTURE HAS ANY OVERHANG OR EAVE WITHIN 27 VERTICAL FEET OF THE TOP OF THE PAD, CLEARANCES MUST BE MEASURED FROM THE OUTSIDE OF THE OVERHANG. THE PAD MUST NOT BE PLACED IN AN AREA 10 FEET IN LINE WITH OR 3 FEET TO EITHER SIDE OF ANY WINDOW IN AN ADJACENT STRUCTURE (SEE DETAIL "A"). CLEARANCE FOR A DOOR MUST BE 20 FEET IN LINE WITH IT AND 10 FEET ON THE SIDES (SEE DETAIL "B"). PADS MUST NOT BE PLACED WITHIN 15 FEET OF ANY VALVE OR WITHIN 20 FEET OF ANY PLUMBING OR STORAGE FACILITY CONTAINING FLAMMABLE MATERIAL. NO WALLS, FENCES, OR ANY OTHER OBSTRUCTIONS WILL BE PLACED WITHIN 3 FEET OF THE SIDES OR BACK OF THE PAD, OR WITHIN 10 FEET OF THE FRONT OF THE PAD (SEE DETAIL "C"). THE AREA IN FRONT OF THE PAD MUST HAVE 10 FEET OF CLEAR, LEVEL WORKING AREA FOR MAINTENANCE OF THE TRANSFORMER. THE PAD MAY NOT BE PLACED IN LINE WITH AN AIR INTAKE WITHIN 32 VERTICAL FEET OF THE SURFACE PAD. ALSO VERTICALLY, IT MUST NOT BE PLACED WITHIN 12 FEET OF A DOOR OR WINDOW.
6. BARRIERS. IF THE TRANSFORMER PAD IS TO BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC, (PARKING LOTS, DRIVEWAYS, ETC) CONTACT UTAH POWER & LIGHT FOR PROTECTIVE BARRIER REQUIREMENTS.
7. IF THE TRANSFORMER WILL NOT COVER THE CABLE OPENINGS ON THESE STANDARD PADS, SEAL THE SIDES OF THE CABLE OPENING TO FIT THE TRANSFORMER USING SAKRETE OR COMPARABLE.

(X) TRANSFORMER PAD DETAIL
NTS

NO.	DATE	DESCRIPTION





COPPER CONDUCTOR AND CONDUIT SCHEDULE

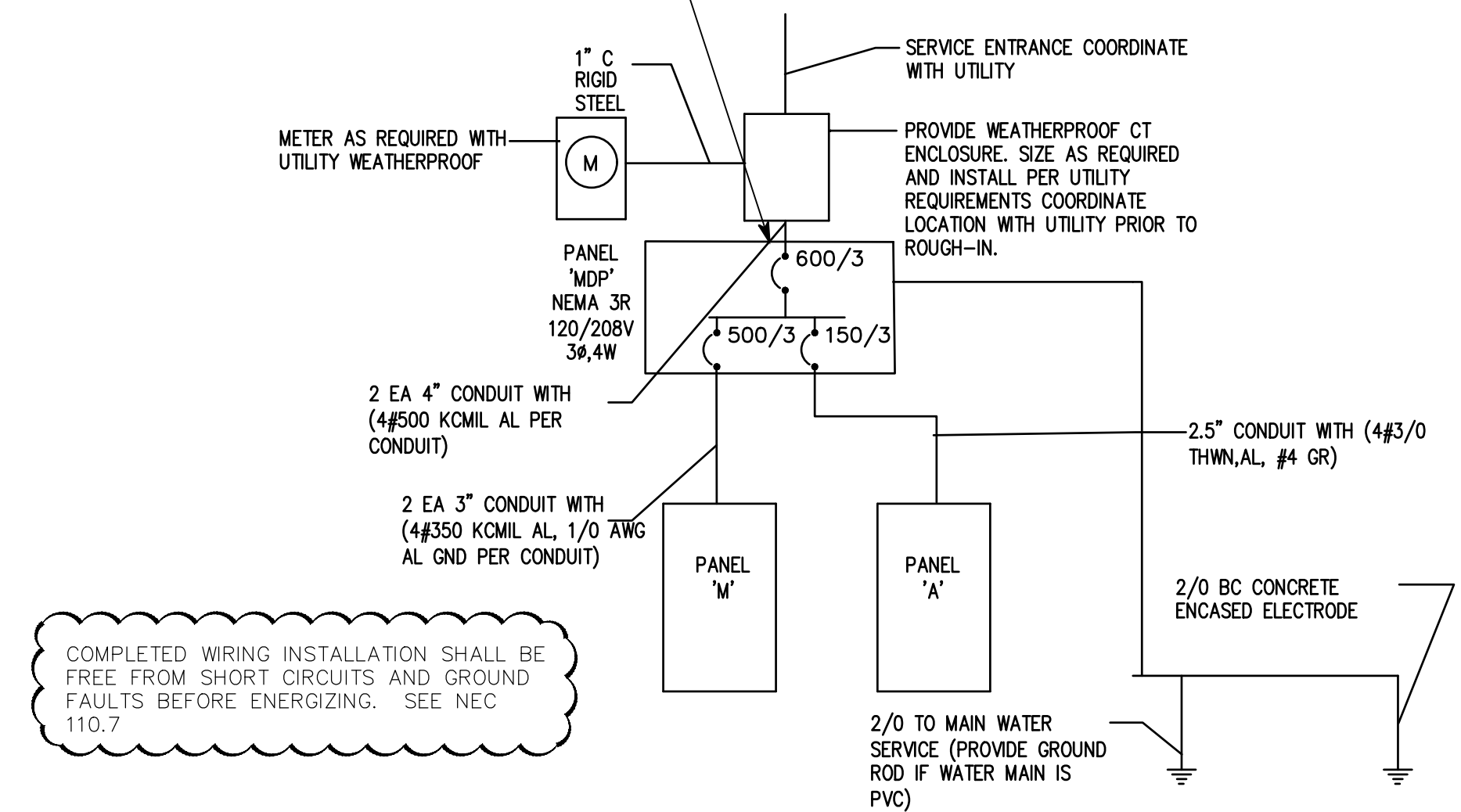
SCHEDULE NUMBER: (E.G.) 5_{IG}

SUBSCRIPT (NOTE 5)

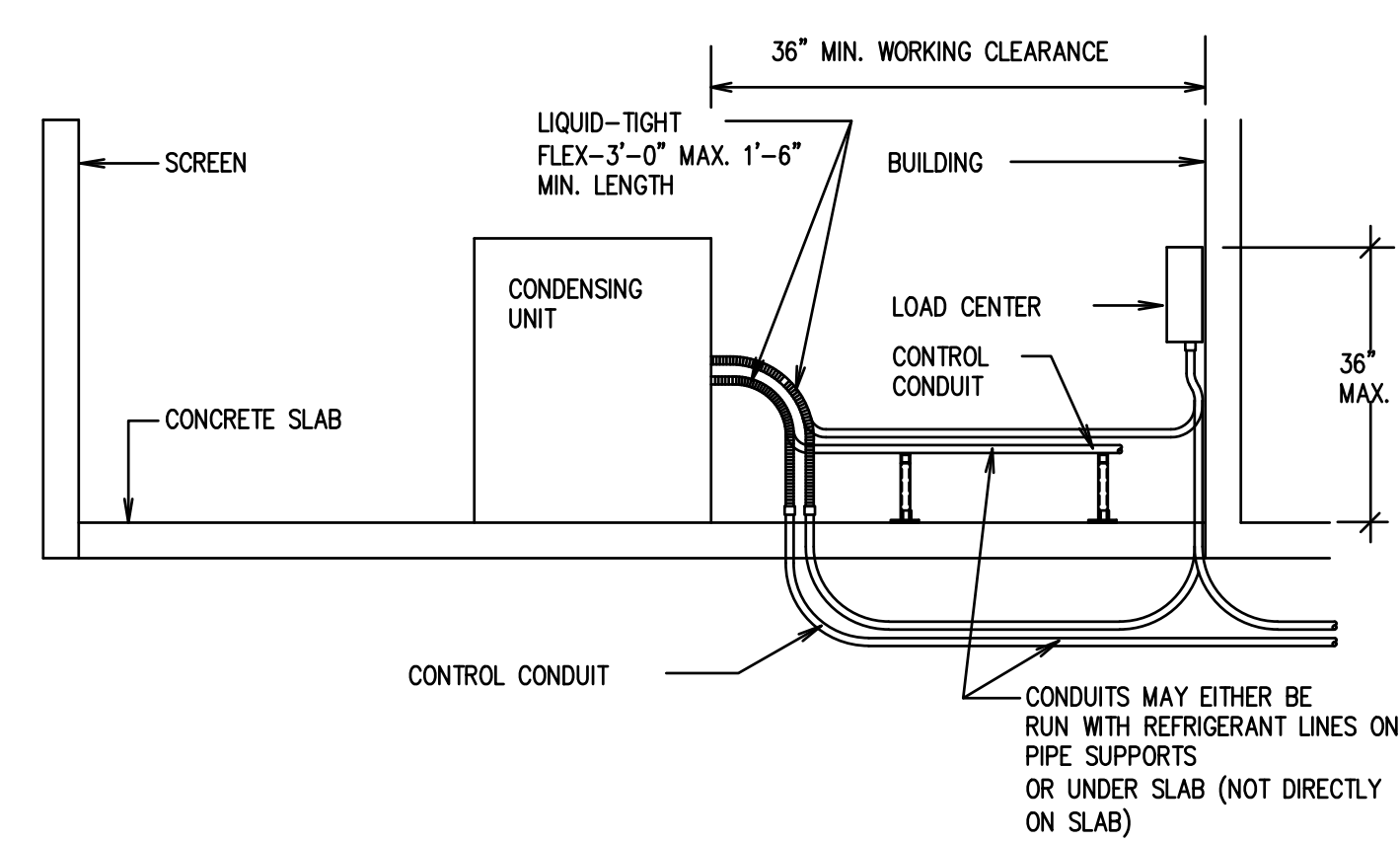
SYM	AMP	HH AMP	CONDUIT SIZE	CONDUCTOR(NOTE 1)			IG/HH	SE	NOTES
				QTY	SIZE	G			
1	20	-	.75	2	12	12	12	8	2
2	20	-	.75	3	12	12	12	8	2,3
3	20	24	.75	4	12	12	12	8	2,3
4	30	-	.75	2	10	10	10	8	2
5	30	-	.75	3	10	10	10	8	2
6	30	32	.75	4	10	10	10	8	2
7	40	-	1	2	8	10	8	6	2
8	40	-	1	3	8	10	8	6	2
9	40	44	1	4	8	10	8	6	2
10	55	-	1	2	6	10	8	4	2
11	55	-	1	3	6	10	8	4	2
12	55	60	1.25	4	6	10	8	4	2
13	70	-	1	2	4	8	4	2	2
14	70	-	1.25	3	4	8	4	2	2
15	70	76	1.25	4	4	8	4	2	2
16	85	-	1.25	2	3	8	3	2	2
17	85	-	1.25	3	3	8	3	2	2
18	85	92	1.25	4	3	8	3	2	2
19	95	-	1.25	3	2	8	2	2	2
20	95	104	1.50	4	2	8	2	2	2
21	130	-	1.50	3	1	6	2	2	2

- CONDUCTOR AND CONDUIT SCHEDULE NOTES
- CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
 - PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
 - PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
 - GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
 - SYMBOL SUBSCRIPTS:
 - RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

PROVIDE AVAILABLE FAULT CURRENT. FIELD MARK WITH THE MAXIMUM AVAILABLE FAULT CURRENT WHEN INSTALLED. THE FIELD MARKING SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. SEE NEC 110.24



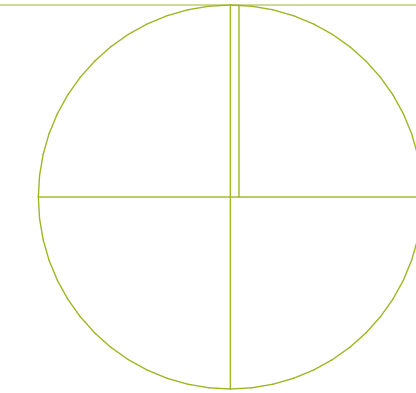
COMPLETED WIRING INSTALLATION SHALL BE FREE FROM SHORT CIRCUITS AND GROUND FAULTS BEFORE ENERGIZING. SEE NEC 110.7



2 POWER ONE-LINE DIAGRAM
SCALE: NONE

1 CONDENSING UNIT CONDUIT DETAIL
SCALE: NTS

NO.	DATE	DESCRIPTION
04	03.31.23	PERMIT REVIEW COMMENTS

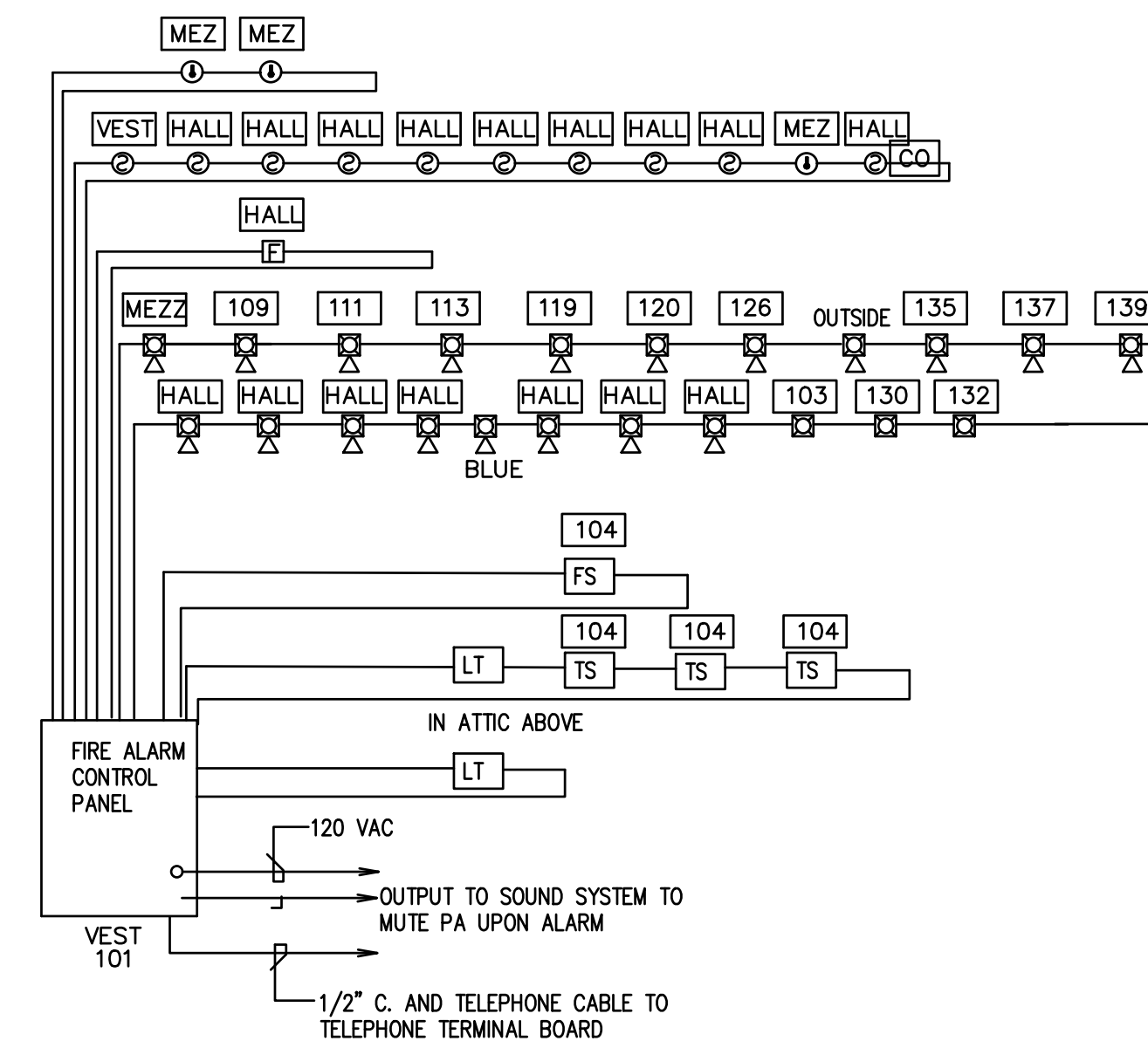


INITIATING DEVICE	ALARM TYPE		
	TROUBLE	SUPERVISED	ALARM
WATER FLOW	X		X
LOW TEMPERATURE	X	X	
VALVE TAMPER	X	X	
MANUAL PULL STATIONS	X		X
DUCT SMOKE DETECTORS	X		X
MAIN FLOOR DETECTORS	X		X
UPPER FLOOR DETECTORS	X		X

FIRE DETECTION SYMBOLS

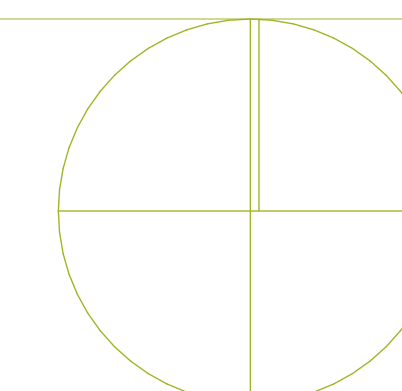
- SMOKE DETECTOR
- HEAT DETECTOR
- FIRE ALARM CONTROL PANEL
- MANUAL STATION
- SPEAKER AND STROBE LIGHT
- END OF LINE WIRING DEVICE
- DUCT SMOKE DETECTOR (BY DIV. 23)
- WP WEATHERPROOF
- WATER FLOW SWITCH
- VALVE TAMPER SWITCH
- LOW TEMPERATURE SENSOR
- CARBON MONOXIDE DETECTOR

VOICE/EVACUATION & CLASS "A" REQUIRED



1 FIRE ALARM RISER
SCALE: NONE

NO.	DATE	DESCRIPTION

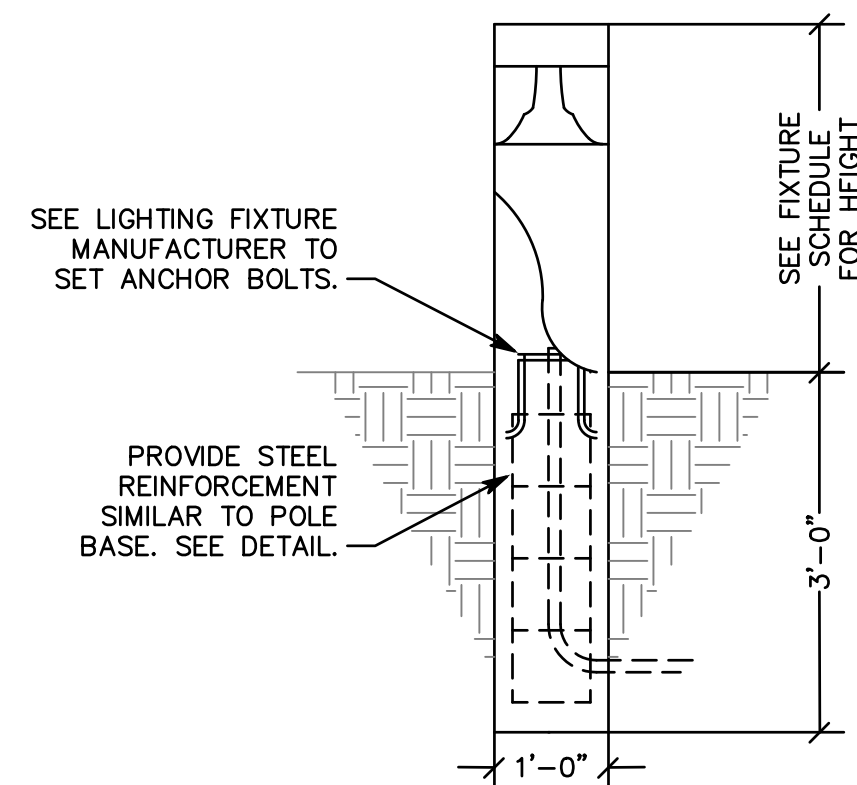


ELECTRICAL SYMBOLS

NOTE: ALL SYMBOLS MAY NOT BE USED

- FLUORESCENT FIXTURE (TYP.)
- FLUORESCENT FIXT. WITH EMERGENCY LIGHTING UNIT
- WALL MOUNTED EXIT LIGHT (SINGLE FACE)
- CEILING MOUNTED EXIT LIGHT (SINGLE FACE)
- SURFACE OR PENDANT MOUNTED FIXTURE
- WALL MOUNTED FIXTURE
- RECESSED FIXTURE
- F1 FIXTURE SYMBOL
- S SINGLE POLE SWITCH
- S3 3-WAY SWITCH
- S4 4-WAY SWITCH
- S T TIME SWITCH AND LIGHTING CONTACTOR
- S P SWITCH WITH PILOT LIGHT
- JUNCTION BOX
- DUPLEX RECEPTACLE OUTLET
- WP/GFCI DUPLEX RECEPTACLE OUTLET WEATHERPROOF AND GFCI
- GFCI DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT PROTECTION
- EWC RECEPTACLE ELECTRIC WATER COOLER (EWC)
- THERMOSTAT OUTLET
- REMOTE TEMPERATURE SENSOR OUTLET
- CHIME
- SIGNAL CHIME TIME CLOCK/PROGRAMMER
- PUSHBUTTON
- DATA OUTLET
- DATA OUTLET AND TELEPHONE OUTLET IN SAME BOX
- TELEPHONE OUTLET
- OCCUPANCY SENSOR PASSIVE INFRARED
- OCCUPANCY SENSOR-CEILING MOUNT ULTRASONIC
- PHOTO CELL OUTLET
- REMOTE EMERGENCY LIGHTING HEAD
- ELU-1 EMERGENCY LIGHTING UNIT FOR REMOTE HEADS
- MECHANICAL EQUIPMENT SYMBOL
- DISCONNECT SWITCH
- MOTOR STARTER
- LIGHTING AND POWER PANELBOARD
- ROOM NUMBER
- BRANCH CIRCUIT CONCEALED IN CEILING OR WALL
- BRANCH CIRCUIT HOMERUNS TO PANEL
- MOTOR OUTLET
- TELEVISION OUTLET / AUDIO OUTLET

SYM	MANUFACTURER		LOAD (VA)	LAMPS TYPE	MOUNTING	REMARKS
	NAME	CATALOG NUMBER				
F1	COLUMBIA ALPHALITE LSI LITHONIA NORA METALUX	OPF14-LSCS-SRPSMK-14 BFP14-A/8-35/SK SFP14-LED-FS-UNV- DIM-(SM14) CPANL 1X4 35K- SKM14 NPD-E14/30A4HL MFD-14RFK/A 14FP4235C-FPSURF14	40	LED 4000K 4000 LM	SURFACE	
F4	LUMIUM	LUMIUM N2-SMS-15-835-H-1D-MB-MB (4' SECTION EM)	150	LED 3500K 18,000 LM	SURFACE	SURFACE LINEAR MAX 3" HEIGHT 4' PORTION OF FIXTURE TO BE EMERG.
F5	BLACKJACK	NAN-25V-SN-121-35K-50	17	LED 3000K	WALL	
F9	INVUE VISIONAIRE NLS	ENC-E01-LED-E1-BL3-CBA PGRS-2-T3-16LC-5-4K-UNV-WM-SCBA RHC-T3-16L-53-40K-UNV-WM-SCBA	25	LED 4000K	WALL	
F14	NEURAT	S124DR-S-575D-8-35-Xx-U-00-F-W	20	2000 LUMEN LED 3500K	RECESSED	
F15	GOTHAM	IC02-35-15-AR-LSS-400-MVOLT	15	1500 LUMEN LED	RECESSED	
F17	LITHONIA HALO COMMERCIAL PRESCOLITE HE WILLIAMS	LDN65Q-35-20-LS6-AR-LD-MVOLT-G210 PR56-F512-D010 LTR-65QD-H-ML-DM1-LTR-65QD-T-SL-35-8-MD-SS 6D5-L20/835-DIM1-UNV-RM-OF-CS-N-F1	20W	LED 2000 LUMEN 3500K	RECESSED	
F18/F18F	METALUX	4RB66-SL1-L8SCT3/F18F USE FLANGE KIT F-64W-U)	30W	LED 3000 LUMEN 3500K	RECESSED	4"x6" LINEAR SLOT
F19	PEERLESS	BRM9L-LLP-8-80CRI-35K-ID100LMF-60/40-MINI-ZT-120-SCT-AIRCRAFT CABLE-24A	48W	LED 4800 LUMEN 3500K	SUSPENDED LINEAR	LUMENS/WATTS IS PER 4' LENGTH
F19B	PEERLESS	BRM9L-LLP-8-MSL8-80CRI-35K-ID1100LMF-MINI-ZT-120-SCT	44W	LED 4400 LUMEN 3500K	WALL MOUNTED	LUMENS/WATTS IS PER 4' LENGTH
F20 F20b	BLACKJACK BLACKJACK	J14-SURJ-BL(5) SP-LGD-TF-01-PC-35K-3W-JTA J14-SURJ-BL(5) SP-CGL-GN-03- #JTA	15W	LED 850 LUMENS 3500K	TRACK	
F21	COLUMBIA ALPHALITE LSI LITHONIA NORA METALUX	OPF24-LSCS BFP14-24-A/8-35 SFP24-LED-FS-UNV-DIM CPANL 2X4 35K NPD-E24/35A4HL 24FP4235C	45W	LED 4500 LUMENS 3500K	LAY-IN	2'X4' LIGHT
F22	BEGA	99330-K4-BLK	45W	LED 1432 LUMENS 3500K	GROUND MOUNT	BOLLARD
F23	HALO	SMD6	10W	LED	SURFACE	
	MCPHILBEN BEHELLI EXTRONIX LIGHTOLIER LITHONIA DUAL-LITE LSI	CXKL-3-G-W VAS-G-SA-ATX GVEK-U-BP-WB-WH-G2 LL-N-U-G-W-SD LGM S W 3 G 120/277 ELN SD LXUGWEI EX-G-U-WB-WH-SD2	5	LED INCLUDED	WALL OR CEILING	PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLANS.



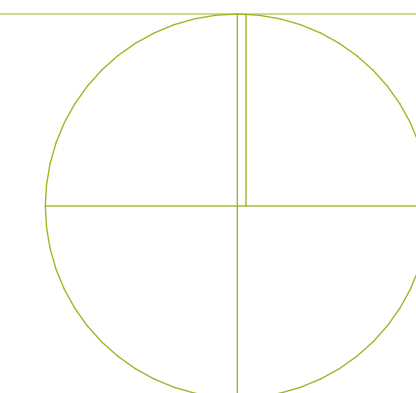
1 BOLLARD MOUNTING DETAIL
SCALE: NTS

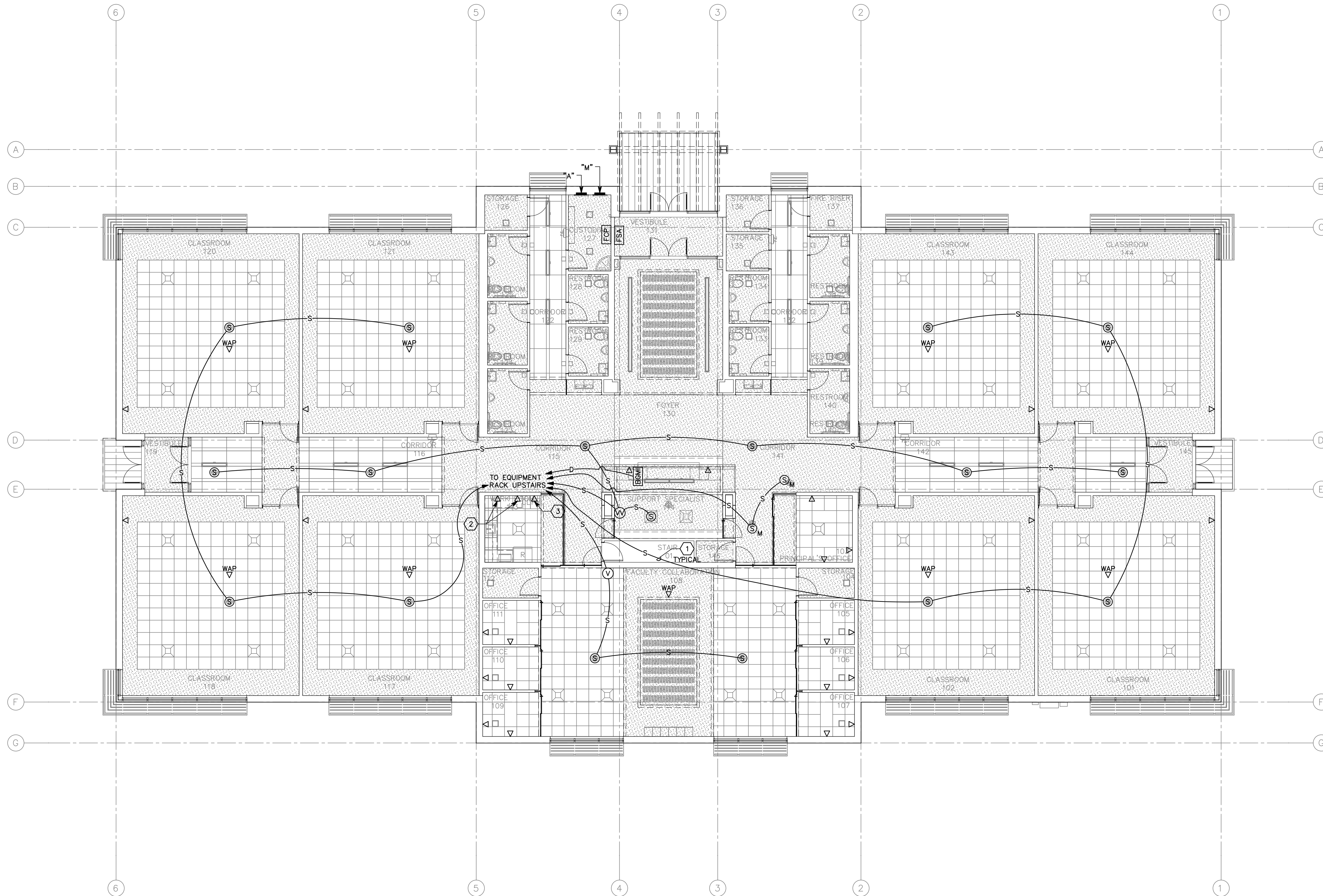
EQUIPMENT SCHEDULE

SYM	DESCRIPTION	CIRCUIT	FEEDER	VOLTS/PHASE	DISCONNECT	STARTER	HP/WATTS	FLA
F-1	FURNACE FAN	M-34	(2#12,#12G)	120/1	SINGLE POLE SWITCH	INCLUDED	3/4 HP	12.5
F-2	FURNACE FAN	M-36	(2#12,#12G)	120/1	SINGLE POLE SWITCH	INCLUDED	3/4 HP	12.5
F-3	FURNACE FAN	M-38	(2#12,#12G)	120/1	SINGLE POLE SWITCH	INCLUDED	3/4 HP	12.5
F-4	FURNACE FAN	M-40	(2#12,#12G)	120/1	SINGLE POLE SWITCH	INCLUDED	3/4 HP	12.5
F-5	FURNACE FAN	M-42	(2#12,#12G)	120/1	SINGLE POLE SWITCH	INCLUDED	3/4 HP	12.5
F-6	FURNACE FAN	M-43	(2#12,#12G)	120/1	SINGLE POLE SWITCH	INCLUDED	3/4 HP	12.5
RT-1	ROOF TOP UNIT	M-1,3,5	1" C (3#6,#10G)	208/3	INCLUDED W/ EQUIPMENT	INCLUDED		39
RT-2	ROOF TOP UNIT	M-7,9,11	1" C (3#6,#10G)	208/3	INCLUDED W/ EQUIPMENT	INCLUDED		39
RT-3	ROOF TOP UNIT	M-2,4,6	1" C (3#8,#10G)	208/3	INCLUDED W/ EQUIPMENT	INCLUDED		30
RT-4	ROOF TOP UNIT	M-8,10,12	3/4" C (3#10,#10G)	208/3	INCLUDED W/ EQUIPMENT	INCLUDED		24
RT-5	ROOF TOP UNIT	M-13,15,17	1" C (3#6,#10G)	208/3	INCLUDED W/ EQUIPMENT	INCLUDED		39
RT-6	ROOF TOP UNIT	M-19,21,23	1" C (3#6,#10G)	208/3	INCLUDED W/ EQUIPMENT	INCLUDED		39
RT-7	ROOF TOP UNIT	M-14,16,18	1" C (3#8,#10G)	208/3	INCLUDED W/ EQUIPMENT	INCLUDED		30
RT-8	ROOF TOP UNIT	M-20,22,24	3/4" C (3#10,#10G)	208/3	INCLUDED W/ EQUIPMENT	INCLUDED		24
RT-9	ROOF TOP UNIT	M-25,27,29	1" C (3#6,#10G)	208/3	INCLUDED W/ EQUIPMENT	INCLUDED		39
EF-3	EXHAUST FAN		1/2" C (2#12,#12G)	120/1	SINGLE POLE SWITCH	INCLUDED	166 WATTS	
EF-4	EXHAUST FAN		1/2" C (2#12,#12G)	120/1	SINGLE POLE SWITCH	INCLUDED	81 WATTS	
EH-1	ELECTRIC HEATER		1/2" C (2#12,#12G)	208/1	TWO POLE SWITCH	INCLUDED	2200 W	
WH-1	WATER HEATER		1/2" C (2#12,#12G)	120/1	SINGLE POLE SWITCH	-		
CU-1	AIR COOLED CONDENSING UNIT	M-31,33	1/2" C (2#10,#10G)	208/1	30A/2P CIRCUIT BREAKER	INCLUDED	-	** 15.5
CU-2	AIR COOLED CONDENSING UNIT	M-35,37	1/2" C (2#10,#10G)	208/1	30A/2P CIRCUIT BREAKER	INCLUDED	-	** 15.5
CU-3	AIR COOLED CONDENSING UNIT	M-39,41	1/2" C (2#10,#10G)	208/1	30A/2P CIRCUIT BREAKER	INCLUDED	-	** 15.5
CU-4	AIR COOLED CONDENSING UNIT	M-26,28	1/2" C (2#10,#10G)	208/1	30A/2P CIRCUIT BREAKER	INCLUDED	-	** 15.5
CU-5	AIR COOLED CONDENSING UNIT	M-30,32	1/2" C (2#10,#10G)	208/1	30A/2P CIRCUIT BREAKER	INCLUDED	-	** 15.5
CU-6	AIR COOLED CONDENSING UNIT		1/2" C (2#10,#10G)	208/1	30A/2P CIRCUIT BREAKER	INCLUDED	-	** 15.5
CU-7	AIR COOLED CONDENSING UNIT		1/2" C (2#10,#10G)	208/1	30A/2P CIRCUIT BREAKER	INCLUDED	-	** 15.5
CU-8	AIR COOLED CONDENSING UNIT		1/2" C (2#10,#10G)	208/1	30A/2P CIRCUIT BREAKER	INCLUDED	-	** 15.5

** MAXIMUM VALUES INDICATED.
* ALL FUSES SHALL BE DUAL-ELEMENT TIME DELAY TYPE. FINAL BREAKER/FUSE SIZE SHALL BE DETERMINED BY MANUFACTURERS RECOMMENDATION FOR ACTUAL EQUIPMENT INSTALLED.

NO.	DATE	DESCRIPTION
03	04.27.23	PR 01
02	02.10.23	Addendum 02





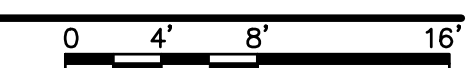
GENERAL SHEET NOTES

1. NO CHANGES SHALL BE MADE WITHOUT THE PROJECT AV/STRUCTURED CABLING CONSULTANT'S WRITTEN CONSENT.
2. REFER TO DRAWINGS FOR EXACT NUMBER OF COMPONENTS USED IF NOT SPECIFIED IN EQUIPMENT LIST.
3. DIVISION 26 INSTALLER IS TO PROVIDE ALL ROUGH-IN INDICATED FOR DIVISION 27 INSTALLER. ALL ROUGH-IN SHALL COMPLY WITH ANSI/TIA/EIA 569-B STANDARDS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE LIMITATION OF (2) 90° BEND FOR CONDUIT. IT IS THE DIVISION 26 INSTALLER'S RESPONSIBILITY TO ENSURE COMPLIANCE WITH STANDARD. VOICE-DATA CABLE SHALL BE INSTALLED IN MINIMUM 1" CONDUIT.
4. RACEWAY SHALL BE INSTALLED BY DIVISION 26. CABLING SHALL BE INSTALLED BY DIVISION 27. VOICE-DATA CABLING AND TERMINATIONS SHALL COMPLY WITH SECTION 27 1501.
5. SPEAKER TRIM RINGS ARE FURNISHED BY DIVISION 27 AND INSTALLED BY DIVISION 26.
6. ET SHEETS SHOW WORK AND MATERIALS BY DIVISION 26 AND DIVISION 27. SEE SPECIFICATIONS AND DRAWING NOTES FOR RESPONSIBILITY FOR EACH ITEM.
7. ALL CONDUIT STUBS SHALL BE LABELED WITH DESTINATION.
8. PROVIDE 200# NYLON PULL CORD IN ALL EMPTY CONDUITS AND TAG BOTH ENDS. CONDUITS SHALL COMPLY WITH ANSI/TIA/EIA 569-A STANDARDS.
9. WHERE LOCATED IN INACCESSIBLE WALL, CEILING, OR ATTIC SPACES, AUDIO, VIDEO, AND CONTROL CABLE TO BE INSTALLED IN CONDUIT. CONDUIT SHALL BE A MINIMUM OF .75" UNLESS NOTED OTHERWISE.
10. INSTALL ALL VOICE-DATA OUTLETS WITHIN 6" OF POWER.
11. PROVIDE SEISMIC WIRES SECURED TO STRUCTURE FOR ALL SPEAKER AND PROJECTOR LOCATIONS.

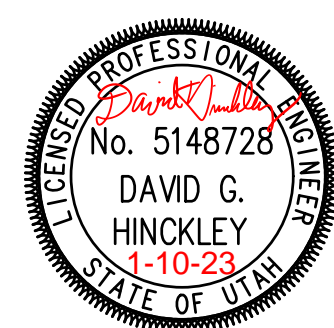
SHEET KEYNOTES

1. SPEAKER CABLE BY DIVISION 27. CONDUIT NOT REQUIRED IN LAY-IN CEILINGS.
2. INSTALL JUNCTION BOXES FOR DATA JACKS ADJACENT TO POWER OUTLET ABOVE COUNTER HEIGHT.
3. INSTALL JUNCTION BOX FOR DATA JACK ADJACENT TO POWER OUTLET BEHIND COPIER.

1 1ST LEVEL TECHNOLOGY ROUGH-IN PLAN
SCALE: 1/8" = 1'-0"



STUDIO 333 ARCHITECTS
333 24TH STREET
OGDEN, UT 84401
801.394.3033

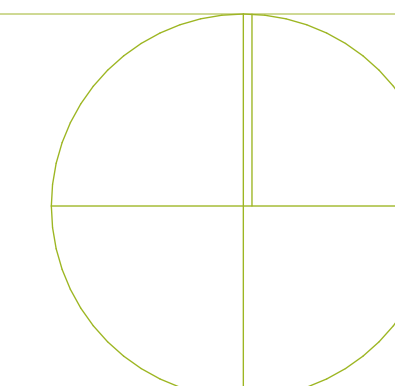


WEST FIELD SR SEMINARY
4383 W 2200 S, OGDEN, UT

SPECTRUM ENGINEERS
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Salt Lake City, UT 84111
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www.spectrum-engineers.com

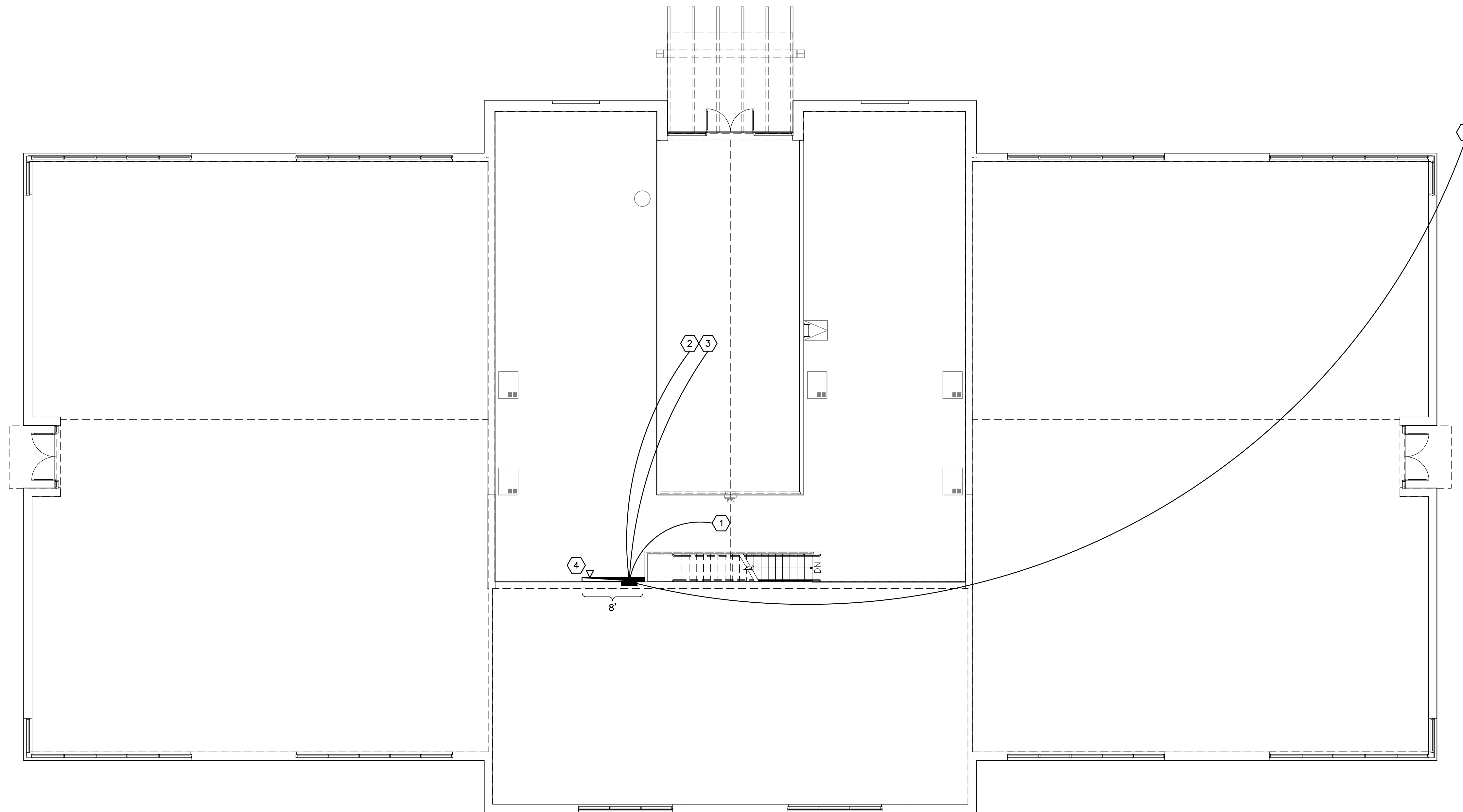
NO.	DATE	DESCRIPTION

CONFORMED SET
DATE: 04.27.23
PROJECT NUMBER: 2154



TECHNOLOGY ROUGH-IN
PLAN

ET101



SHEET KEYNOTES

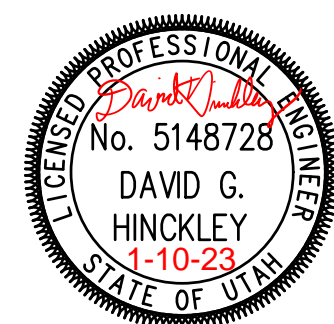
1. PROVIDE 3 EACH, 2" CONDUITS TO ACCESSIBLE RECEPTION AREA CEILING SPACE.
2. PROVIDE CONDUIT TO TELCO PROVIDER. VERIFY CONDUIT SIZE WITH PROVIDER.
3. PROVIDE CONDUIT CABLE PROVIDER. VERIFY CONDUIT SIZE WITH PROVIDER.
4. MOUNT NEXT TO "BMG" BUILDING MANAGEMENT GATEWAY NETWORK INTERFACE. MOUNTED ON PLYWOOD. COORDINATE WITH MECHANICAL INSTALLER.
5. 2" CONDUIT TO HANDHOLE ON NORTHEAST CORNER OF SITE TO CONNECT TO CONDUIT FROM SCHOOL.

1 2ND LEVEL TECHNOLOGY SYSTEMS PLAN

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



STUDIO 333 ARCHITECTS
333 24TH STREET
OGDEN, UT 84401
801.394.3033

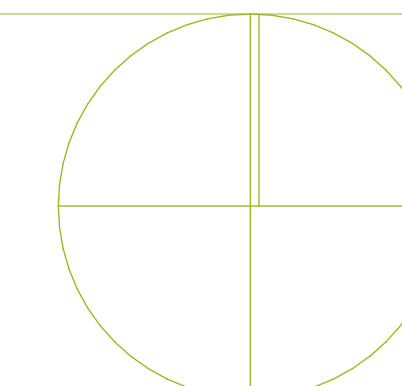


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NO.	DATE	DESCRIPTION

CONFORMED SET
DATE: 04.27.23
PROJECT NUMBER: 2154



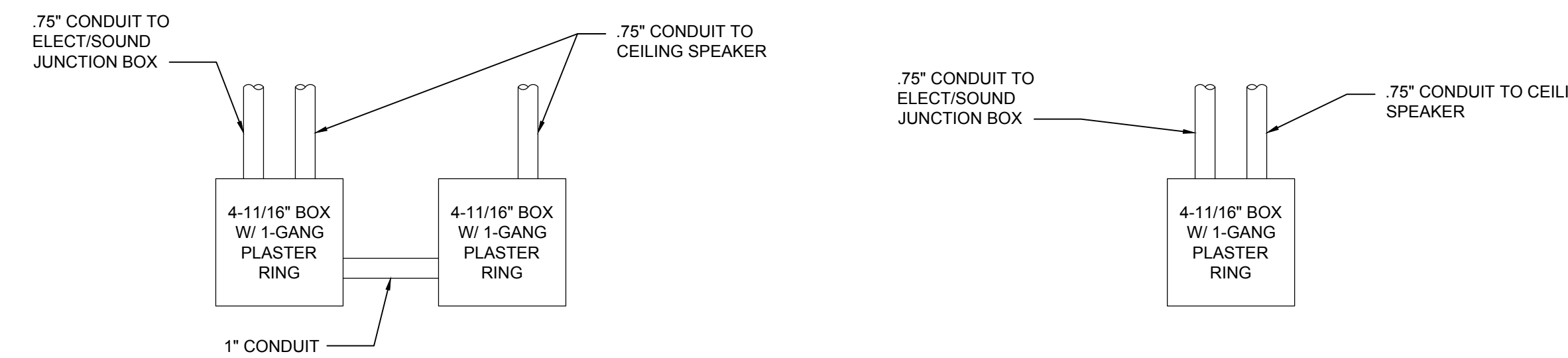
TECHNOLOGY SYSTEMS
PLAN

ET102

ELECTRICAL EQUIPMENT LIST

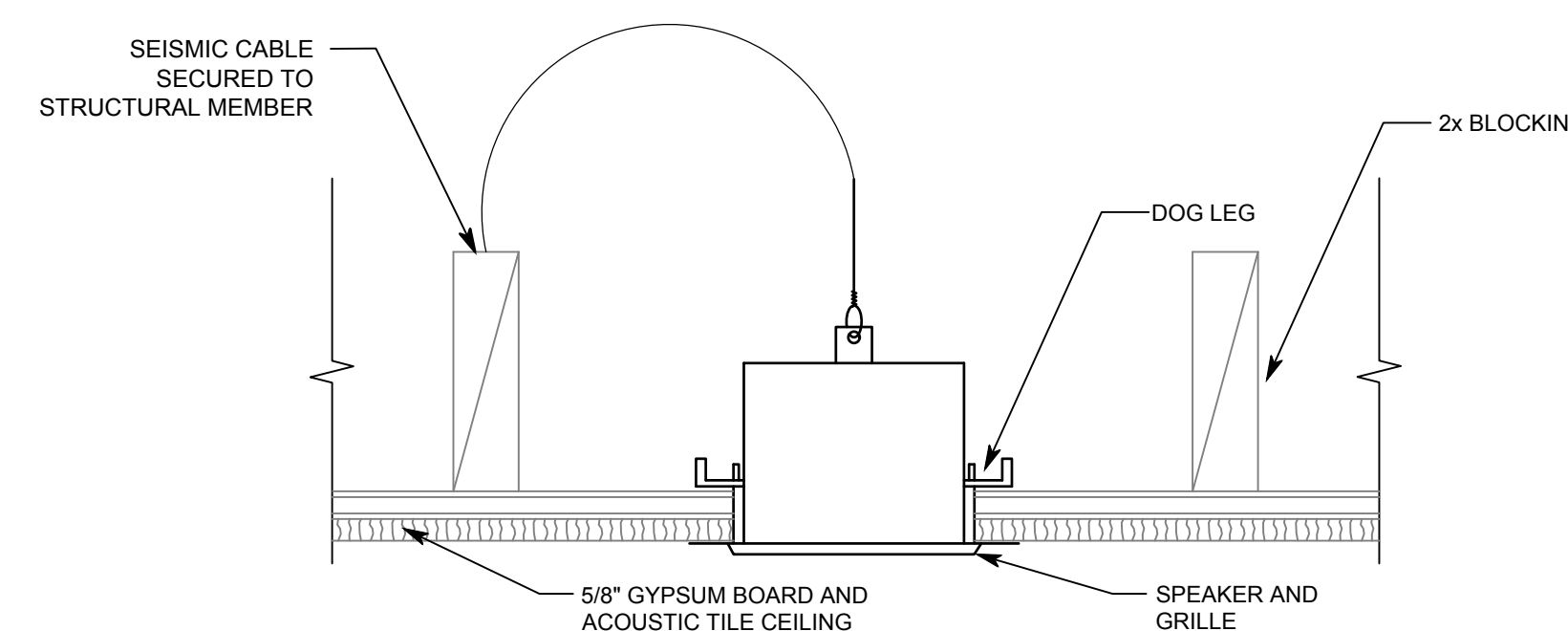
SYM	DESCRIPTION	QTY	NOTES
(V) (W)	2-1/8" DEEP, 4-11/16" SQUARE BOX W/ 5/8" DEEP, SINGLE GANG PLASTER RING MOUNTED AT ELECTRICAL SWITCH HEIGHT	OFF	SEE DETAILS 2/ET501 AND 3/ET501
-	12"X12"X4" JUNCTION BOXES MOUNTED PER DETAIL 4/ET101	2	COORDINATE EXACT LOCATION W/ MILLWORK DRAWINGS
(S)	SPEAKER MOUNTING RING	OFF	FURNISHED BY DIVISION 27, INSTALLED BY DIVISION 26, SEE DETAIL 4/ET601
(S) _M	SPEAKER ENCLOSURE	OFF	FURNISHED BY DIVISION 27, INSTALLED BY DIVISION 26, SEE DETAIL 4/ET601
(BGM)	2-1/8" DEEP, 4-11/16" SQUARE BOX W/ 5/8" DEEP, SINGLE GANG PLASTER RING MOUNTED AT ELECTRICAL SWITCH HEIGHT	OFF	
	PLYWOOD BACKBOARD, .75", FIRE-TREATED, PAINTED WHITE, 2 EACH, 4'X8' SHEETS	OFF	EXTEND TO FINISHED FLOOR
Δ _X	2-1/8" DEEP, 4-11/16" SQUARE BOX W/ 5/8" DEEP, SINGLE GANG PLASTER RING MOUNTED AT ELECTRICAL OUTLET HEIGHT OR AS NOTED, (X) = # OF DATA JACKS IF MORE THAN 1	OFF	DATA OUTLET SEE DETAIL 4/TT602
Δ _{WAP}	2-1/8" DEEP, 4-11/16" SQUARE BOX W/ 5/8" DEEP, SINGLE GANG PLASTER RING MOUNTED FLUSH IN FINISHED CEILING	OFF	DATA OUTLET FOR WIRELESS ACCESS POINT, SEE DETAILS 4/TT602 AND 5/TT602
—	CONDUIT WITH NYLON PULL CORD, SIZED AS NOTED OR .75", WHICHEVER IS GREATER	A/R	
(S)(X)	SPEAKER CABLE, INSTALL IN CONDUIT IN WALLS AND INACCESSIBLE CEILING, (X) = NUMBER OF CABLES, IF MORE THAN ONE	A/R	CONDUIT INSTALLED BY ELECTRICAL, CABLE FURNISHED AND INSTALLED BY DIVISION 27, SEE SHEET TT601

MANUFACTURER'S NAMES AND TELEPHONE NUMBERS ARE LISTED IN THE SPECIFICATIONS
A/R = AS REQUIRED, OFF = OBTAIN FROM PLANS

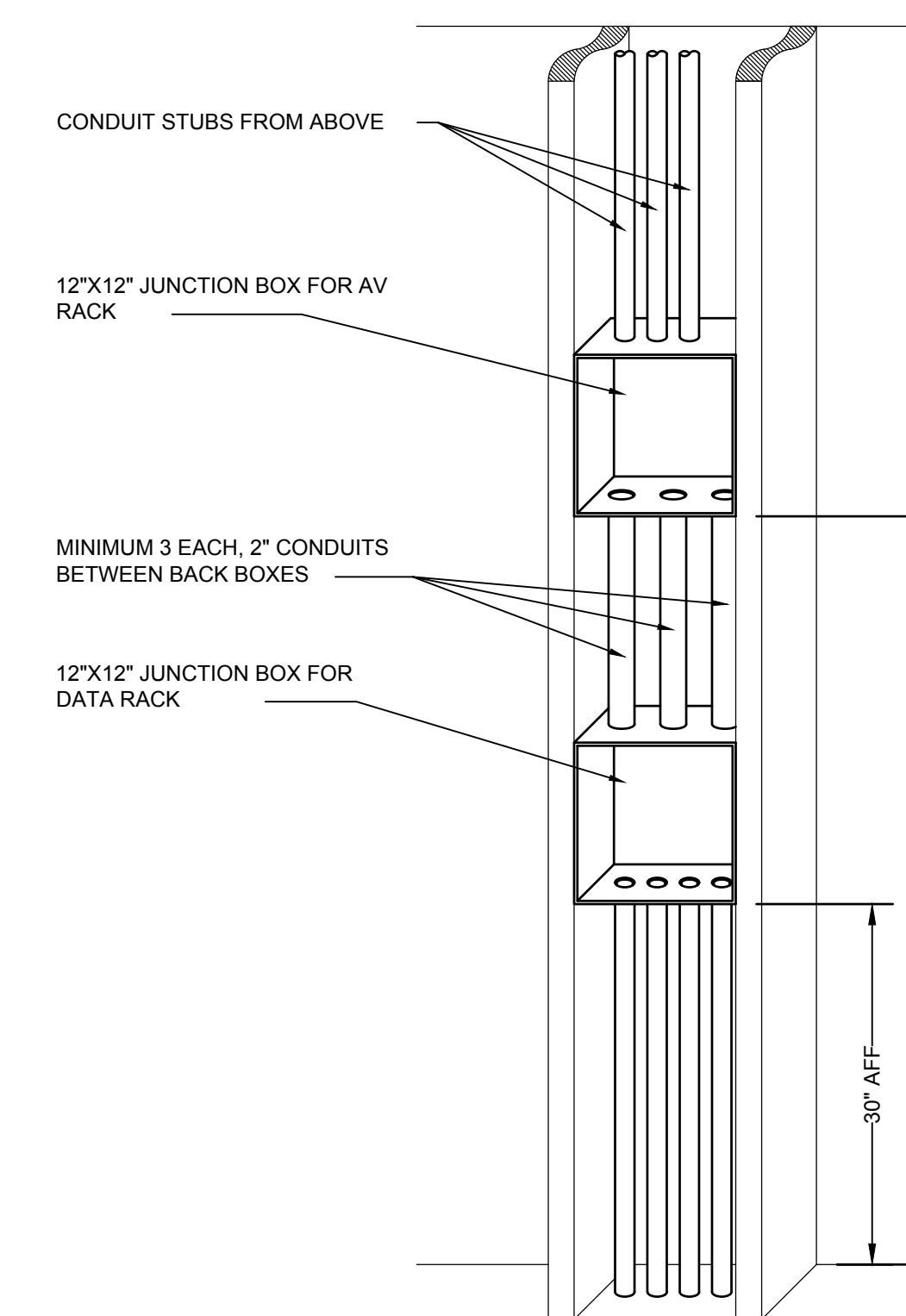


3 VOLUME CONTROL DETAIL
NTS

2 VOLUME CONTROL DETAIL
NTS

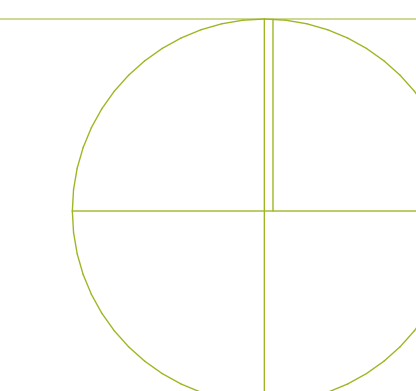


4 SPEAKER SEISMIC DETAIL
NTS

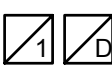
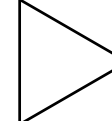








1 12"X12" IN-WALL J-BOX DETAIL
NTS

NO.	DATE	DESCRIPTION



AUDIO-VIDEO SYSTEM EQUIPMENT LIST

SYM	DESCRIPTION	QTY	ACCEPTABLE TYPES
	EQUIPMENT RACK, WALL MOUNTED, 12RU, AND DOOR	2	MIDDLE ATLANTIC DWR-12-22, PFD-12
AI	AUDIO INTERFACE, STEREO UNBALANCED TO MONO BALANCED, PASSIVE	A/R	EXTRON ASA141 RADIO DESIGN LABS TX-J2
MA	MIXER AMPLIFIER, 120 WATT	OFF	TOA A-712 ATLAS SOUND AA120
	AMPLIFIER, MASKING M	OFF	TOA BG-2035 W/ MB-1000 RACK KIT
	NOISE GENERATOR	1	ATLAS IED AA-SMG EMTECH EM-SMG 100
	TRANSIENT VOLTAGE SURGE SUPPRESSOR, 15 AMP, IN LECTERN	OFF	TRIPP-LITE ISOBAR 6 ULTRA, OR APPROVED EQUAL
	TRANSIENT VOLTAGE SURGE SUPPRESSOR, 20 AMP, RACK MOUNTED	OFF	TRIPP-LITE IBAR 12-20 ULTRA, OR APPROVED EQUAL
	SPEAKER, 4" W/ GRILLE, ENCLOSURE, AND TILE BRIDGE, LAY-IN CEILING TILE	OFF	ATLAS SOUND FAP42T COMMUNITY C4
	4" LOUDSPEAKER	OFF	ATLAS SOUND FC104T72 LOWELL JR410-T470
	LOUDSPEAKER GRILLE	OFF	ATLAS SOUND T720-4BT LOWELL CN-4M
	LOUDSPEAKER ENCLOSURE	OFF	ATLAS SOUND E410-11
	VOLUME CONTROL	OFF	EMTECH MSC-V35 ATLAS SOUND AT35D LABEL PER DETAIL
	NYLON DECORA COVER PLATE, 1-GANG		HUBBELL OR LEVITON
BGMI	BACKGROUND MUSIC INPUT PLATE	OFF	RCI MI120-PW
BSC	BELL SYSTEM CONTROLLER	OFF	ALGO 8301 PAGING ADAPTER
	LINE TRANSFORMER	A/R	RADIO DESIGN LABS TX-1A PRO CO LOT-1

MANUFACTURER'S NAMES AND TELEPHONE NUMBERS ARE LISTED IN THE SPECIFICATIONS
A/R = AS REQUIRED, OFF = OBTAIN FROM PLANS
OFI = OWNER FURNISHED AND INSTALLED, OFCI = OWNER FURNISHED, CONTRACTOR INSTALLED

GENERAL PROJECT NOTES

- NO CHANGES SHALL BE MADE WITHOUT THE PROJECT AUDIO-VISUAL/ACOUSTICAL CONSULTANT'S WRITTEN CONSENT.
- REFER TO DRAWINGS FOR EXACT NUMBER OF COMPONENTS USED IF NOT SPECIFIED IN EQUIPMENT LIST.
- SEE 'ET' SHEETS FOR DEVICE LOCATIONS AND COORDINATION.
- SEE 'TT' SHEETS FOR ADDITIONAL COORDINATION.
- PROVIDE ALL CONNECTORS, CABLES, POWER SUPPLIES, RACK MOUNT KITS, ETC. AS NECESSARY FOR A COMPLETE SYSTEM.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

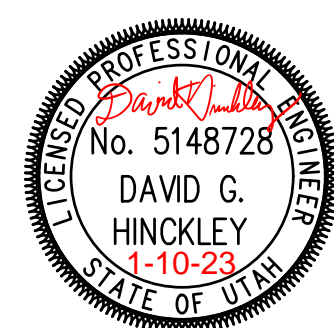
INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS. THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

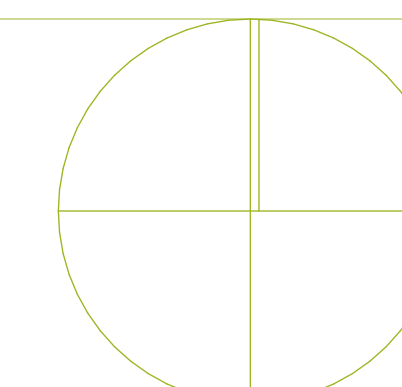
ABBREVIATIONS

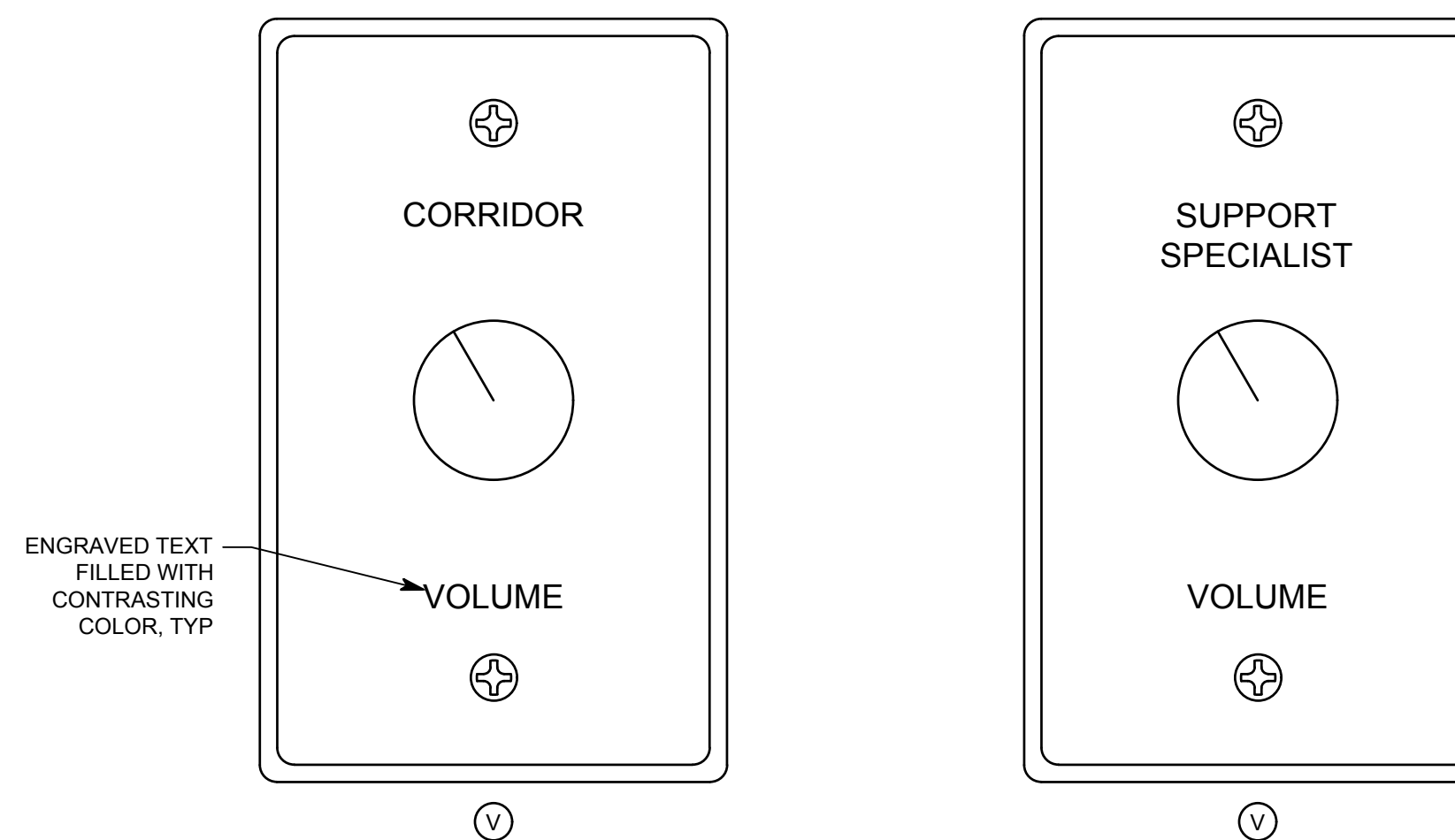
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

A	-----	AUDIO
A/R	ADJ	AS REQUIRED
C	-----	ADJACENT
CAT	-----	CONDUIT
CFI	-----	CATEGORY
CV	-----	CONTRACTOR FURNISHED AND INSTALLED
DVI	-----	COMPOSITE VIDEO
DVD	-----	DIGITAL VISUAL INTERFACE
E	-----	DIGITAL VERSATILE DISK
EA	-----	ENHANCED
EX	-----	EACH
GR	-----	EXISTING
HDMI	-----	GROUND
I.O.F.	-----	HIGH-DEFINITION DIGITAL MEDIA INTERFACE
L	-----	INSTALLATION OF OWNER FURNISHED EQUIPMENT
MIC	-----	LEFT AUDIO CHANNEL, LINE LEVEL
N/A	-----	MIC LEVEL AUDIO
N.I.C.	-----	NOT APPLICABLE
OFCI	-----	NOT IN CONTRACT
OFI	-----	OWNER FURNISHED AND CONTRACTOR INSTALLED
OFFP	-----	OWNER FURNISHED AND INSTALLED
QTY	-----	OBTAIN FROM PLANS
OP	-----	QUANTITY
POE	-----	OWNER PROVIDED
R	-----	POWER OVER ETHERNET
RGBHV	-----	RIGHT AUDIO CHANNEL, LINE LEVEL
RMK	-----	COMPUTER VIDEO
RU	-----	RACK MOUNT KIT
TYP	-----	RACK UNIT, 1.75"
V	-----	TYPICAL
VGA	-----	VOLT
VHS	-----	VIDEO GRAPHICS ARRAY
WI	-----	VIDEO HOME SYSTEM
YC	-----	WITH
YPP	-----	S-VIDEO
	-----	COMPONENT VIDEO

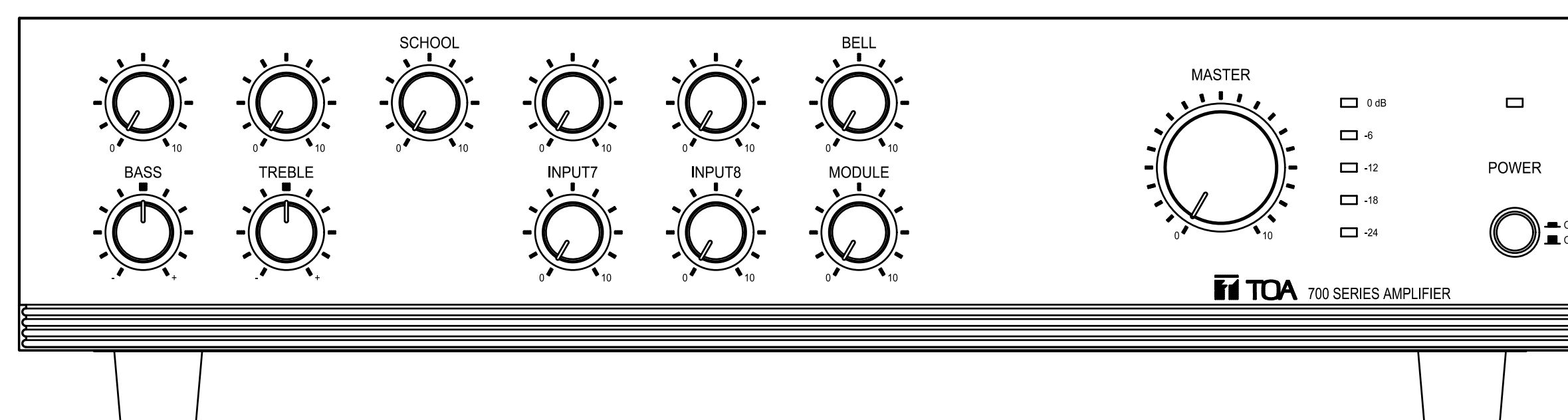


NO.	DATE	DESCRIPTION

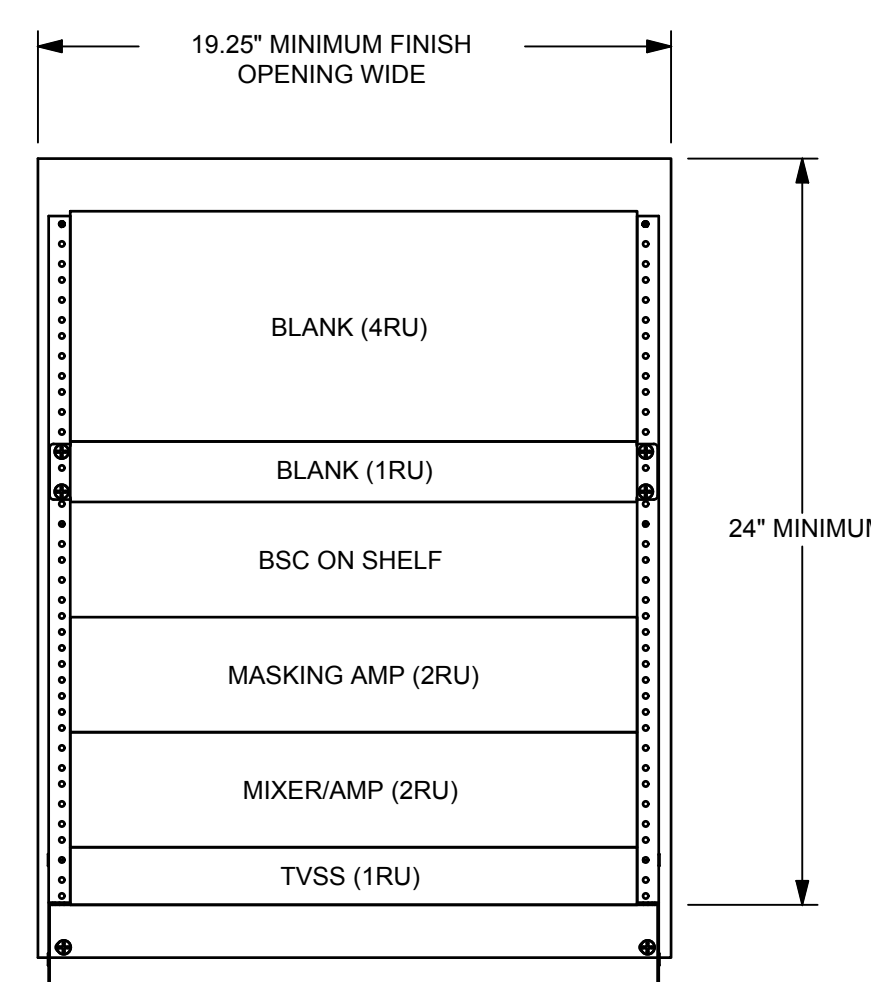




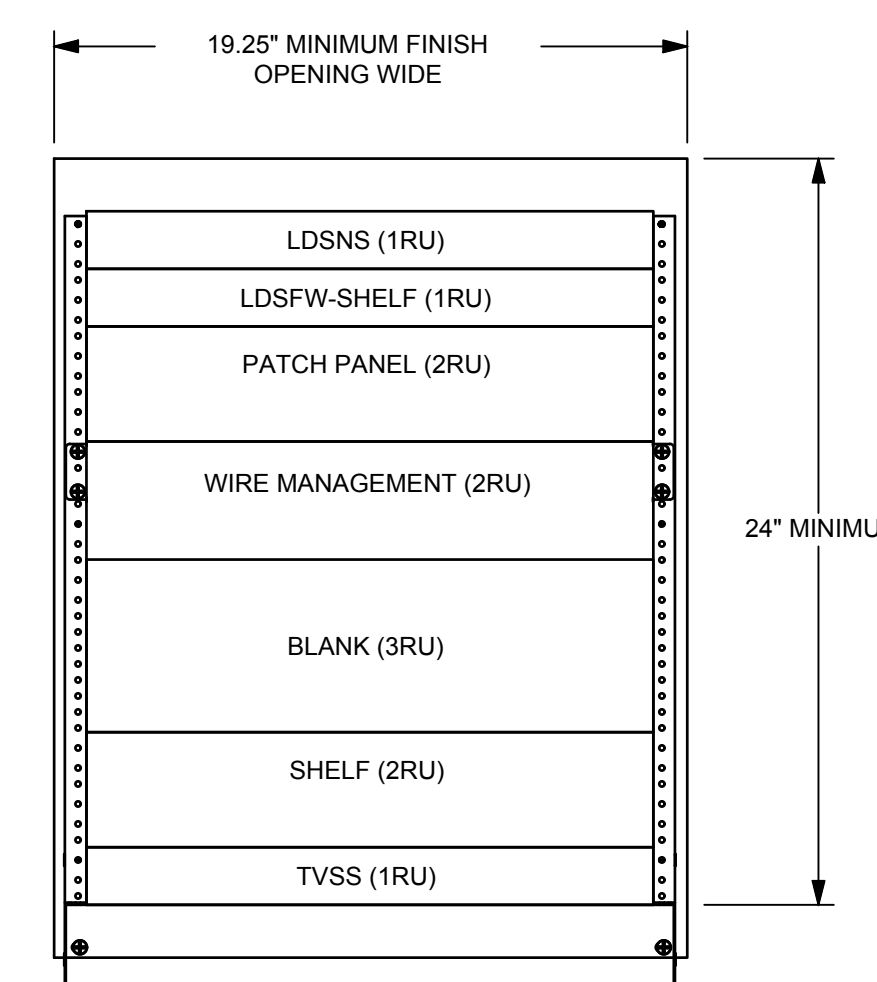
1 VOLUME CONTROLS "V"
NTS



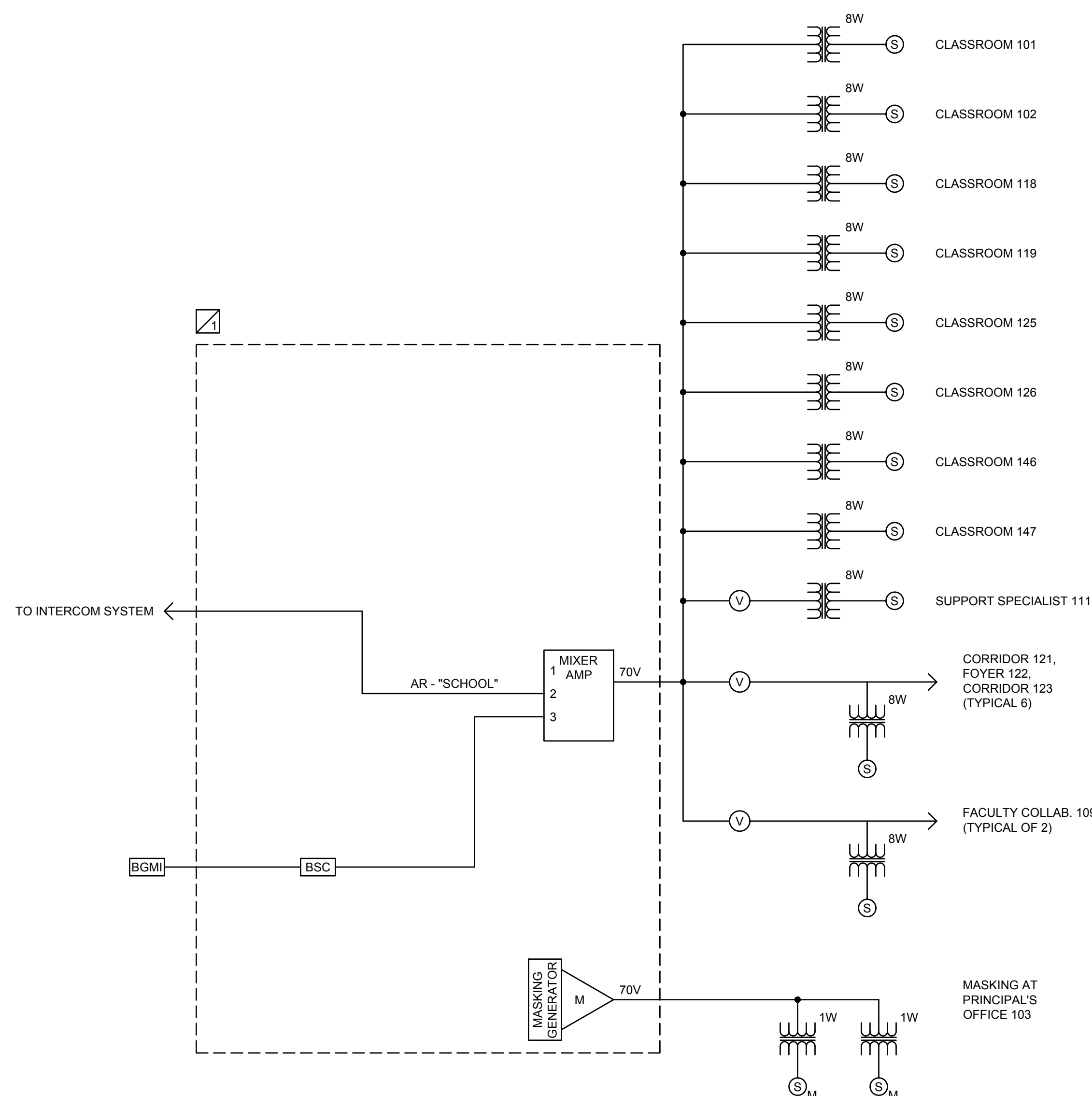
2 MIXER AMPLIFIER LABELS "MA"
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4 AV SUPPORT SPECIALIST EQUIPMENT RACK DETAIL
NTS

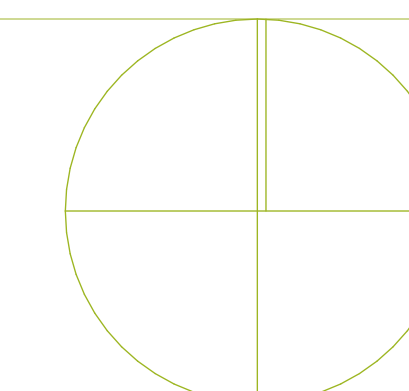


3 IT SUPPORT SPECIALIST EQUIPMENT RACK DETAIL
NTS



5 SUPPORT SPECIALIST
NTS

NO.	DATE	DESCRIPTION



VOICE-DATA SYSTEM EQUIPMENT/CABLE LIST

THE FOLLOWING IS A PARTIAL LIST OF MATERIALS FOR THE DATA/PHONE SYSTEM. REFER TO SPECIFICATION 27 1501 FOR FULL REQUIREMENTS. VERIFY ALL PART NUMBERS WITH MANUFACTURER'S CATALOG NUMBERS AND NOTIFY CONSULTANT OF DISCREPANCIES PRIOR TO BIDDING. FURNISH MISCELLANEOUS HARDWARE NOT LISTED TO PROVIDE A COMPLETE SYSTEM.

SYM	DESCRIPTION	ACCEPTABLE TYPES
TELCO DEMARC	TELECOMMUNICATIONS PROVIDER DEMARCATION POINT	FURNISHED AND INSTALLED BY PROVIDER
ISP DEMARC	INTERNET SERVICE PROVIDER DEMARCATION POINT	FURNISHED AND INSTALLED BY PROVIDER
DPP	PATCH PANEL, DATA, 48-PORT W/ CAT 6 INSERT, BLUE (QUANTITIES OF PORTS AS REQUIRED +25%)	SEE SPECIFICATION 271501
TVSS	SURGE SUPPRESSOR AND SWITCHER W/ UL LISTED PLUG STRIP	FURNISHED AND INSTALLED BY AV INSTALLER
	UL LISTED POWER STRIP	6 OUTLET POWER STRIP OR EQUAL
D(#)	STATION CABLE, DATA-CAT 6, DATA, (#) INDICATES NUMBER OF CABLES IF MORE THAN ONE	SEE SPECIFICATION 271501
WAP	DATA OUTLET, WIRELESS ACCESS POINT SINGLE GANG BEZEL	SEE SPECIFICATION 271501
	BEZEL INSERTS	SEE SPECIFICATION 271501
	CAT 6 JACK-DATA (1)	SEE SPECIFICATION 271501
X	DATA OUTLET SINGLE GANG BEZEL	SEE SPECIFICATION 271501
	BEZEL INSERTS	SEE SPECIFICATION 271501
	CAT 6 JACK-DATA (X) INDICATED # OF JACKS, IF MORE THAN ONE	SEE SPECIFICATION 271501
	COPPER CAT 6 PATCH CABLES (1 DROP +25%)	SEE SPECIFICATION 271501
	CAT 6 J-HOOKS	CADDY CAT32234
HWM	HORIZONTAL WIRE MANAGER HORIZONTAL WIRE MANAGER SHALL NOT HAVE A DEPTH OF MORE THAN 3"	SEE SPECIFICATION 271501
NS	NETWORK SWITCH, OWNER STANDARD (IEA-IS FOR INTERNET ENABLED APPLIANCES) CONNECT NETWORK DEVICES REQUIRING 'POE' TO 'POE' PORTS ON SWITCH	OWNER FURNISHED-CONTRACTOR INSTALLED
	2 RACK UNIT SHELF FOR 'POE' SWITCH	MIDDLE ATLANTIC USM-11.5
FW	INTERNET FIREWALL, OWNER STANDARD	OWNER FURNISHED-CONTRACTOR INSTALLED
	2 RACK UNIT SHELF	MIDDLE ATLANTIC USM-11.5
ISP MODEM	INTERNET SERVICE MODEM	OWNER FURNISHED-CONTRACTOR INSTALLED
110 BLOCK	110 PUNCH DOWN BLOCK, CAT6	SEE SPECIFICATIONS 271501
WAP	WIRELESS ACCESS POINT, OWNER STANDARD. INSTALL AT EACH 'WAP' LOCATION SHOWN ON ET101.	OWNER FURNISHED-CONTRACTOR INSTALLED

NOTE: ALL PATCH PANELS AND ACCESSORIES SHALL BE BLACK IN COLOR

AUDIO-VIDEO CABLE EQUIPMENT LIST

SYM	DESCRIPTION	QTY	ACCEPTABLE TYPES
L(X)	LINE LEVEL CABLE, (X) INDICATES NUMBER OF CABLES, IF MORE THAN ONE	A/R	BELDEN 8451 WEST PENN 454 LIBERTY 22-1P-EZ OR AS APPROVED BY CONSULTANT
S(X)	SPEAKER CABLE, (X) INDICATES NUMBER OF CABLES, IF MORE THAN ONE	A/R	BELDEN 8471 WEST PENN 225 LIBERTY 16-2C-GRY OR AS APPROVED BY CONSULTANT

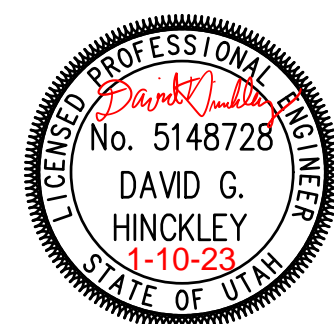
MANUFACTURER'S NAMES AND TELEPHONE NUMBERS ARE LISTED IN THE SPECIFICATIONS
A/R = AS REQUIRED

GENERAL PROJECT NOTES

- LABEL ALL CABLE REGARDLESS OF LENGTH.
- THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY. PRIOR TO FABRICATION, SUBMIT THE NOMENCLATURE FOR ALL CABLING AND EQUIPMENT TO THE CONSULTANT APPROVAL.
- COIL 5 FEET OF EXTRA VOICE-DATA CABLE AT THE TECHNOLOGY ROOM AND 18" AT THE OUTLET FOR EACH CABLE RUN.
- USE CADDY CLIPS FOR ALL CABLE OUTSIDE OF CONDUIT.
- ALL CABLE AND UTP TO TERMINATE ON BOTH ENDS.
- ALL VOICE-DATA OUTLETS ON WALLS SHALL BE MOUNTED WITHIN 6" OF A POWER OUTLET. IF CONTRADICTIONS ARISE ON PLANS, NOTIFY ENGINEER.
- REFER TO SHEET ET101 FOR VOICE-DATA JACK LOCATIONS, AND SHEET TA601 FOR ROUTING OF AV CABLE.
- EQUIPMENT RACK TO BE INSTALLED BY AV INSTALLER.
- ALL VOICE-DATA CABLING AND EQUIPMENT SHALL BE INSTALLED ACCORDING TO DIVISION 27 1501.
- INSTALL OWNER FURNISHED LDS NETWORK EQUIPMENT SHOWN, AS PART OF INSTALLATION SET UP AND CONFIGURE DEVICES IN ACCORDANCE WITH LDS REQUIREMENTS. COORDINATE WITH LOCAL FACILITIES MANAGER.
- COORDINATE WITH FACILITIES MANAGER AND PROJECT MANAGER WELL IN ADVANCE OF PROJECT COMPLETION TO ENSURE INSTALLATION OF ALL OWNER FURNISHED EQUIPMENT IS INSTALLED AND SET UP PROPERLY. IN ADDITION, ENSURE OWNER PROVIDES INTERNET SERVICE TO BUILDING PRIOR TO FINAL INSTALLATION OF AV AND VOICE DATA EQUIPMENT.
- INSTALL A DATA PATCH CABLE TO NS FOR ALL DATA LOCATIONS SHOWN ON PLANS.
- FURNISH AND INSTALL ALL AUDIO-VIDEO CABLE SHOWN. PROVIDE 3 FEET EXTRA CABLE AT OUTLET END AND 15' EXTRA CABLE AT EQUIPMENT RACK. COIL AND LABEL.
- INSTALL PATCH IN AND SET-UP OWNER FURNISHED WIRELESS ACCESS POINTS.
- SEE 'TA' AND 'ET' SHEETS FOR DEVICE LOCATIONS AND ADDITIONAL COORDINATION.

STUDIO 333

STUDIO 333 ARCHITECTS
333 24TH STREET
OGDEN, UT 84401
801.394.3033



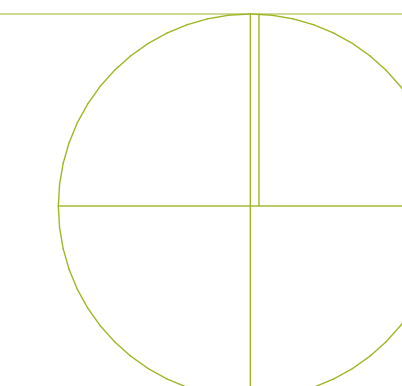
WEST FIELD SR SEMINARY
4383 W 2200 S, OGDEN, UT



324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077, 801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

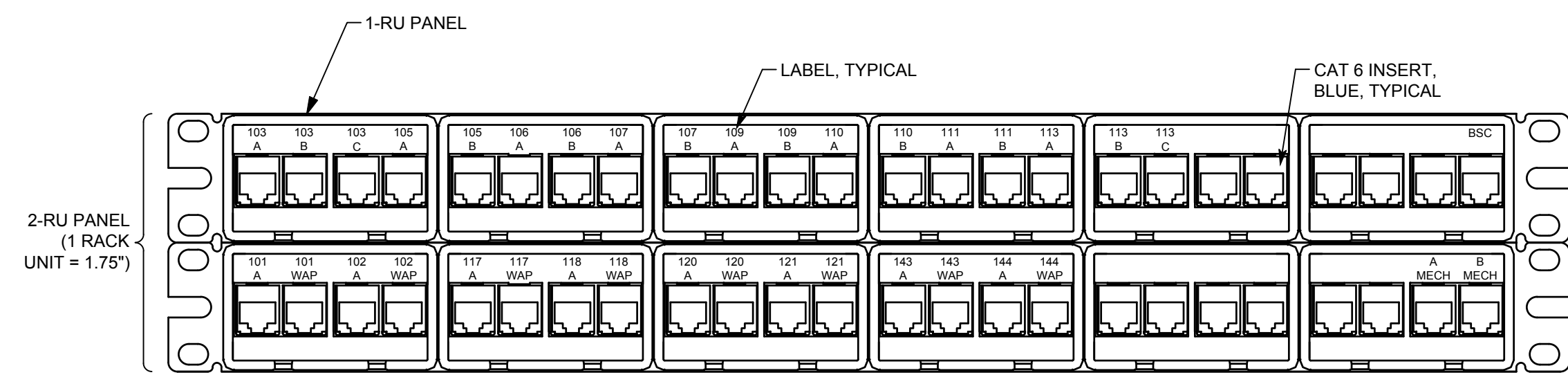
NO.	DATE	DESCRIPTION

CONFORMED SET
DATE: 04.27.23
PROJECT NUMBER: 2154

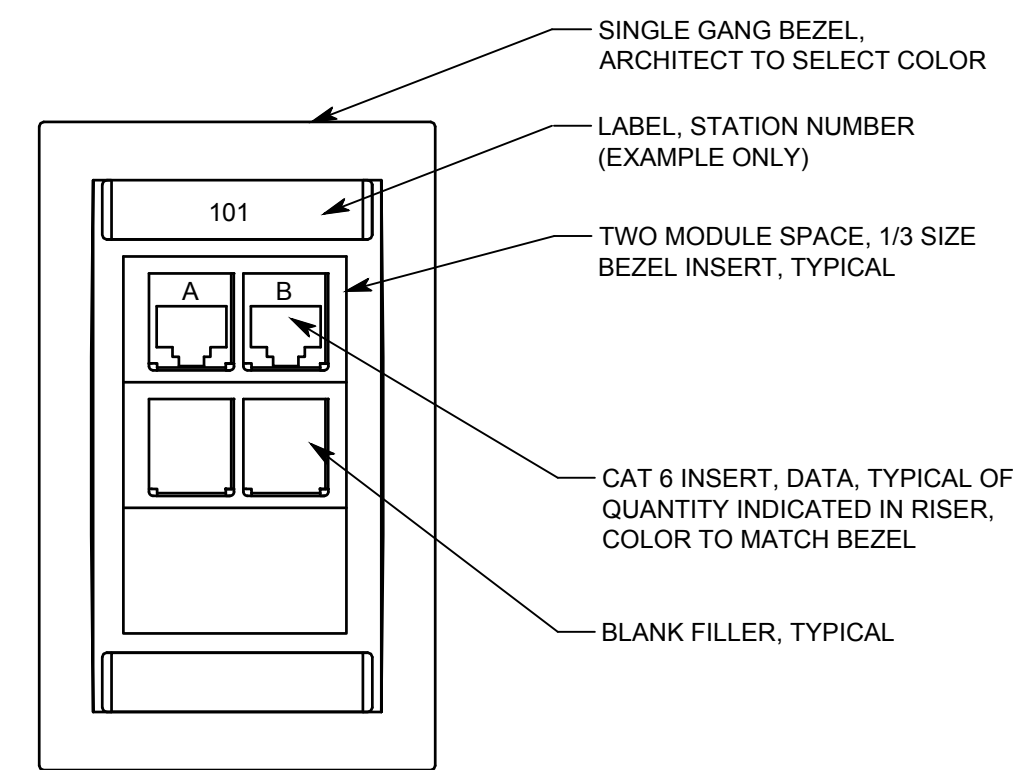


DATA SYSTEM SCHEDULES
& NOTES

TT601

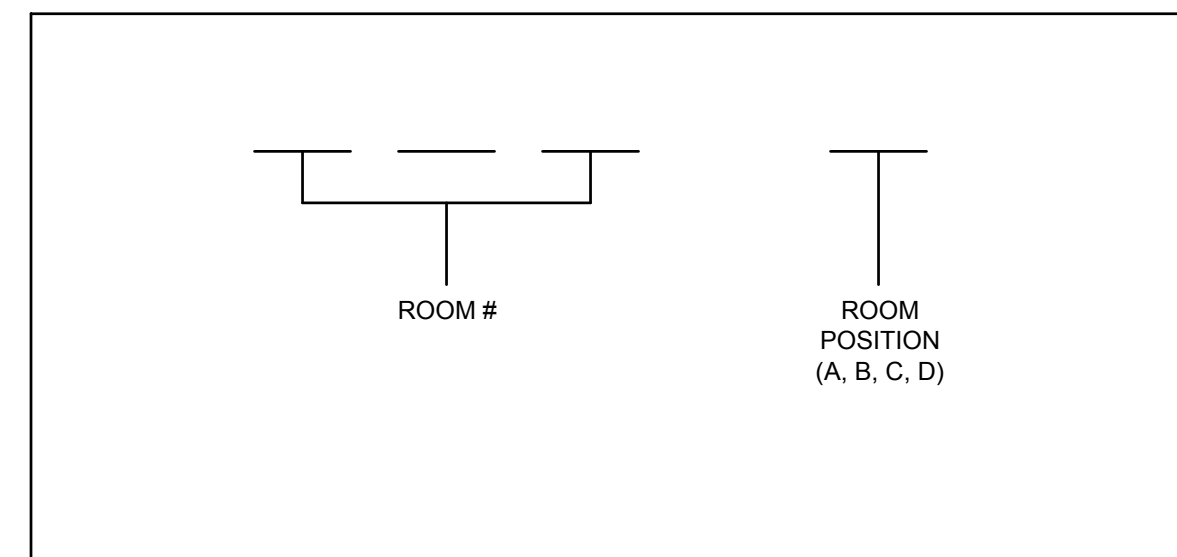


NOTE:
NUMBER SHOWN MATCHES DESIGN ROOM NUMBERS. FINAL LABELING FOR PATCH PANEL AND OUTLETS SHALL MATCH SIGNAGE POSTED FOR ROOMS.

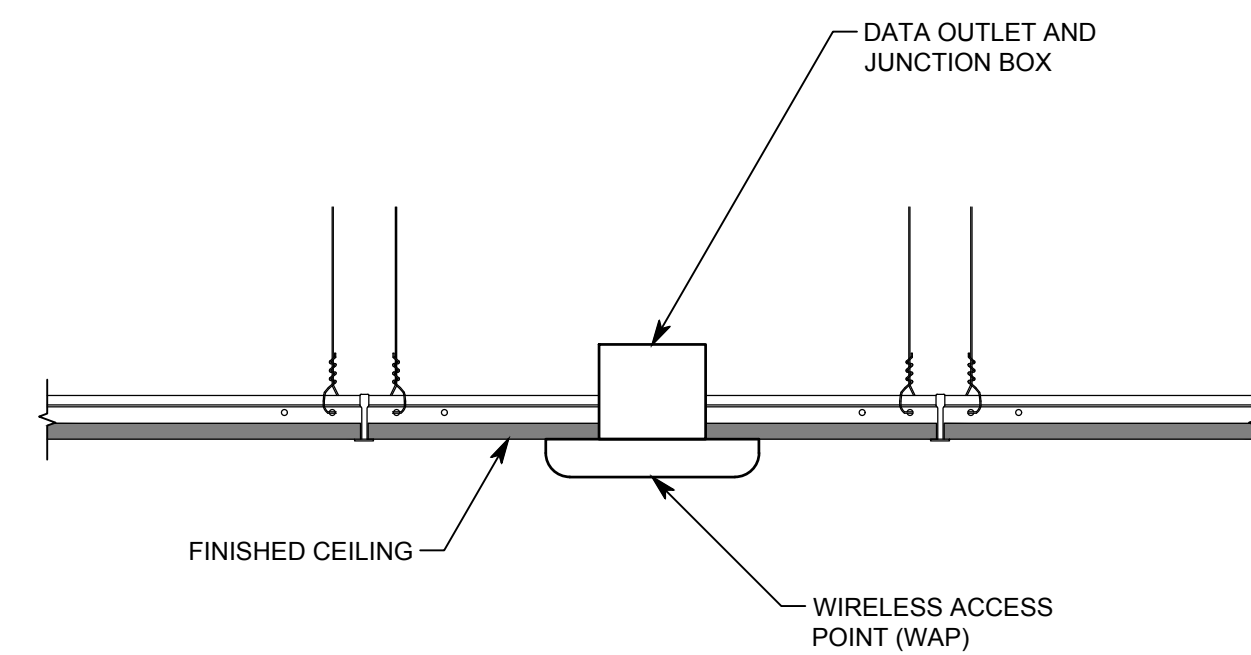


1 PATCH PANEL DETAIL, 48-PORT
NTS

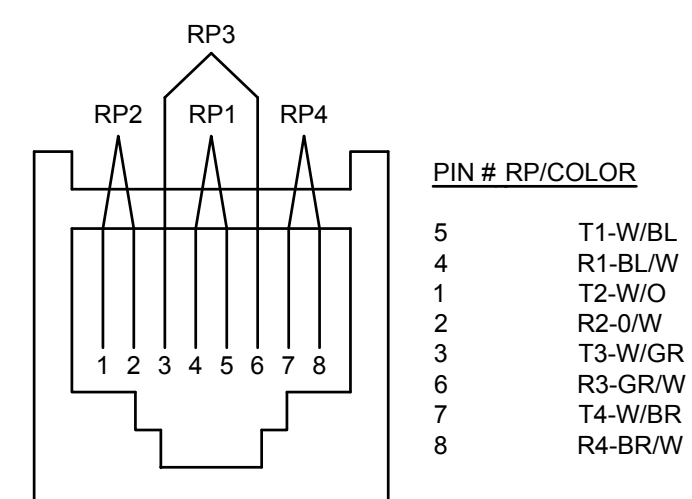
4 TYP VOICE-DATA OUTLET
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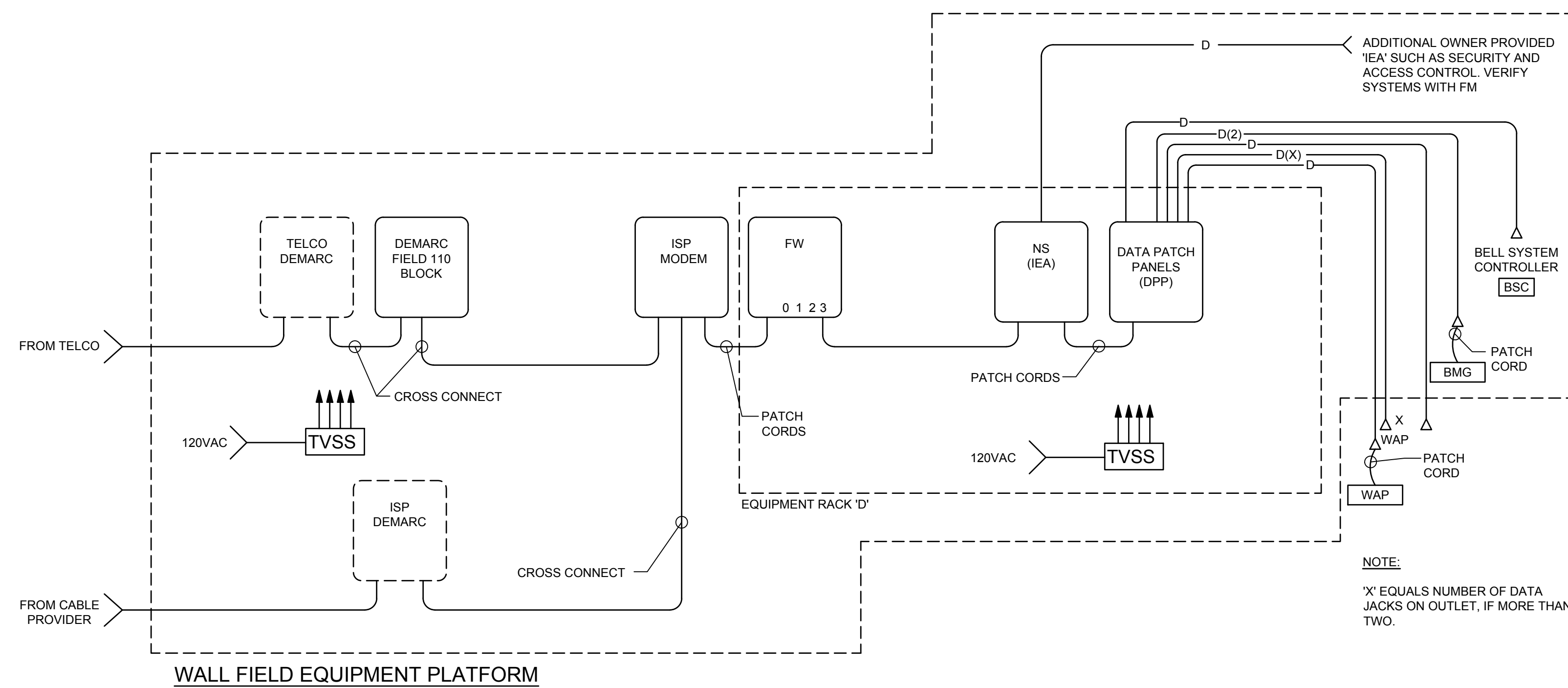
2 CABLE LABEL DETAIL
NTS



5 WIRELESS ACCESS POINT (WAP)
NTS

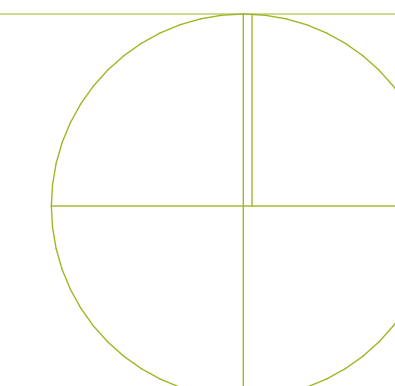


3 OUTLET PINNING DETAIL
NTS




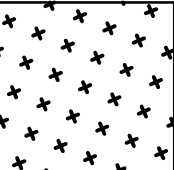
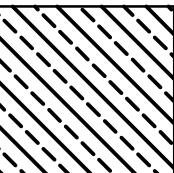
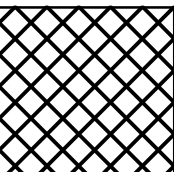
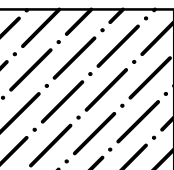





6 STRUCTURED CABLING RISER DIAGRAM
NTS

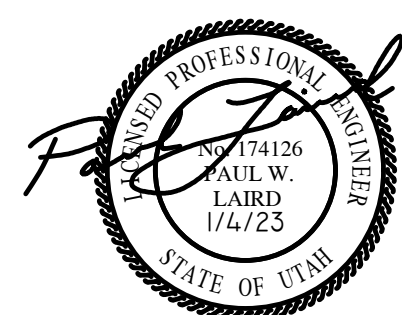
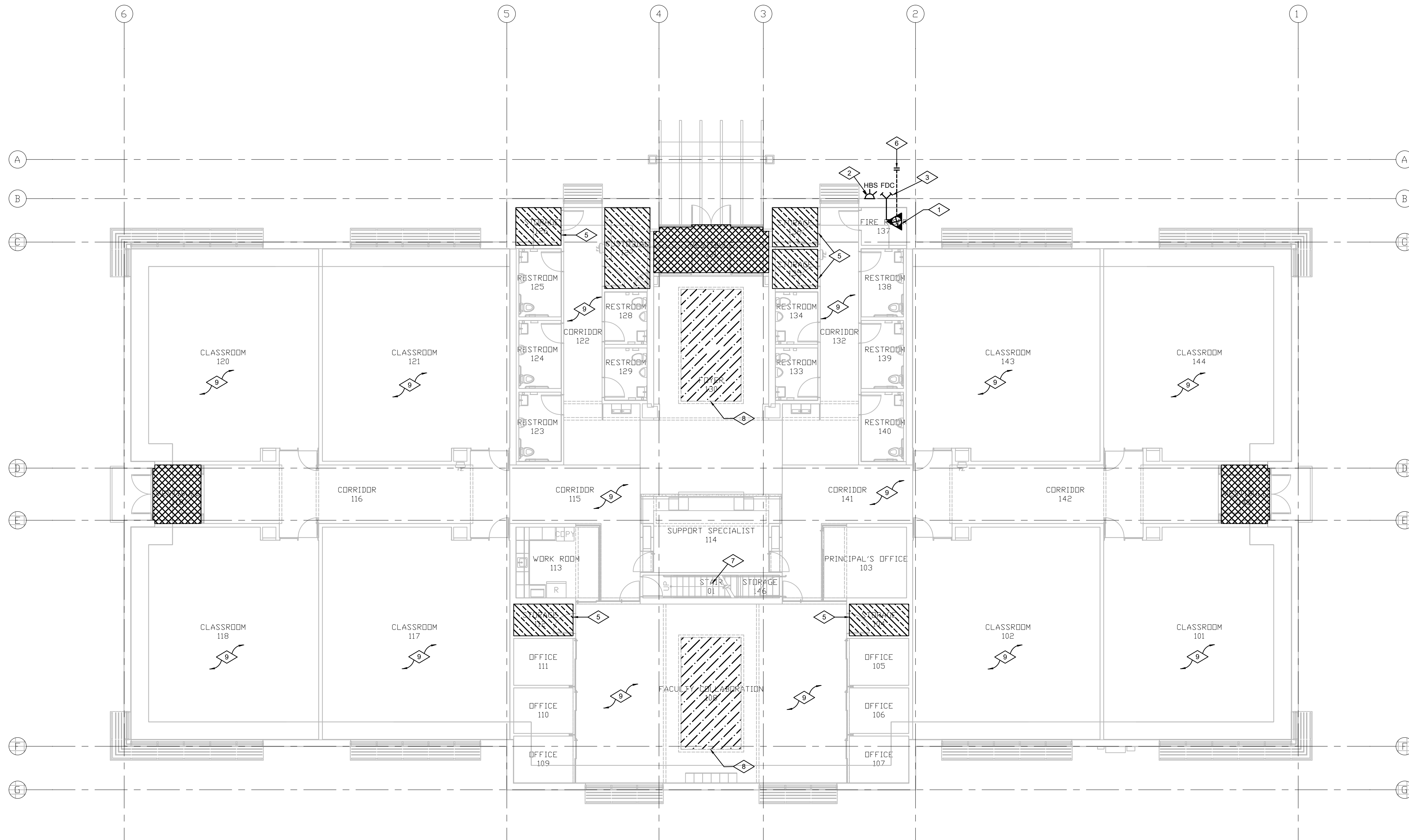
NO.	DATE	DESCRIPTION



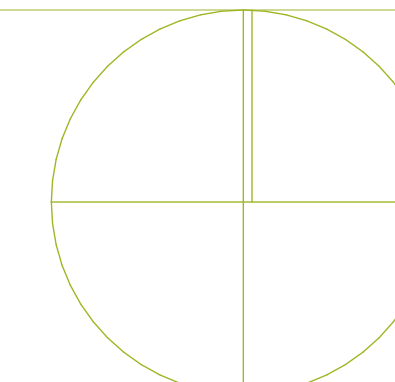
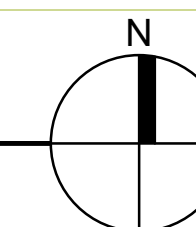
- KEYED NOTES:**
- 1 FIRE RISER WITH DOUBLE CHECK VALVE BACKFLOW PREVENTER AND STANDPIPE FLOW SWITCH. SEE DETAIL 1/FP5.1 FOR INSTALLATION REQUIREMENTS.
 - 2 ELECTRIC ALARM HORN/BELL-STROBE (HBS). MOUNT HIGH ON WALL.
 - 3 FIRE DEPT CONNECTION - SIAMESE TYPE. MOUNT ON WALL WITH CAMLOCK COVERS
 - 4 ELECTRICAL, AV OR IT ROOM. DO NOT TRANSIT FIRE SPRINKLER PIPING THROUGH THIS AREA.
 - 5 STORAGE AREA. PROVIDE FIRE SPRINKLERS ON EXPOSED PIPING WITH ROUGH BRASS UPRIGHT OR PENDENT HEADS. COORDINATE LOCATION OF FIRE SPRINKLERS WITH STORAGE RACKS.
 - 6 6" FIRE SERVICE LINE. FIRE SERVICE LINE TO TERMINATE INSIDE FIRE RISER ROOM WITH BLIND FLANGE. FOR CONTINUATION OF PIPING SEE CIVIL DRAWINGS.
 - 7 STAIRWELL. PROVIDE FIRE SPRINKLER PROTECTION ABOVE AND BELOW STAIRWELL IN ACCORDANCE WITH NFPA 13.
 - 8 THIS AREA OPEN TO ABOVE. SEE ARCHITECTURAL PLANS FOR CEILING DETAILS.
 - 9 PROVIDE FIRE PROTECTION ABOVE AND BELOW CEILINGS PER NFPA 13 REQUIREMENTS.

FIRE PROTECTION LEGEND

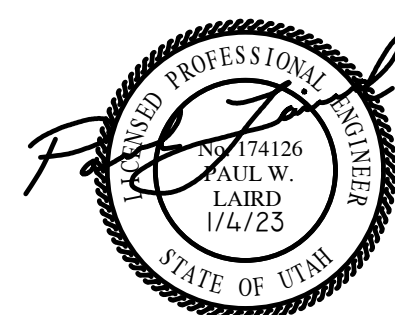
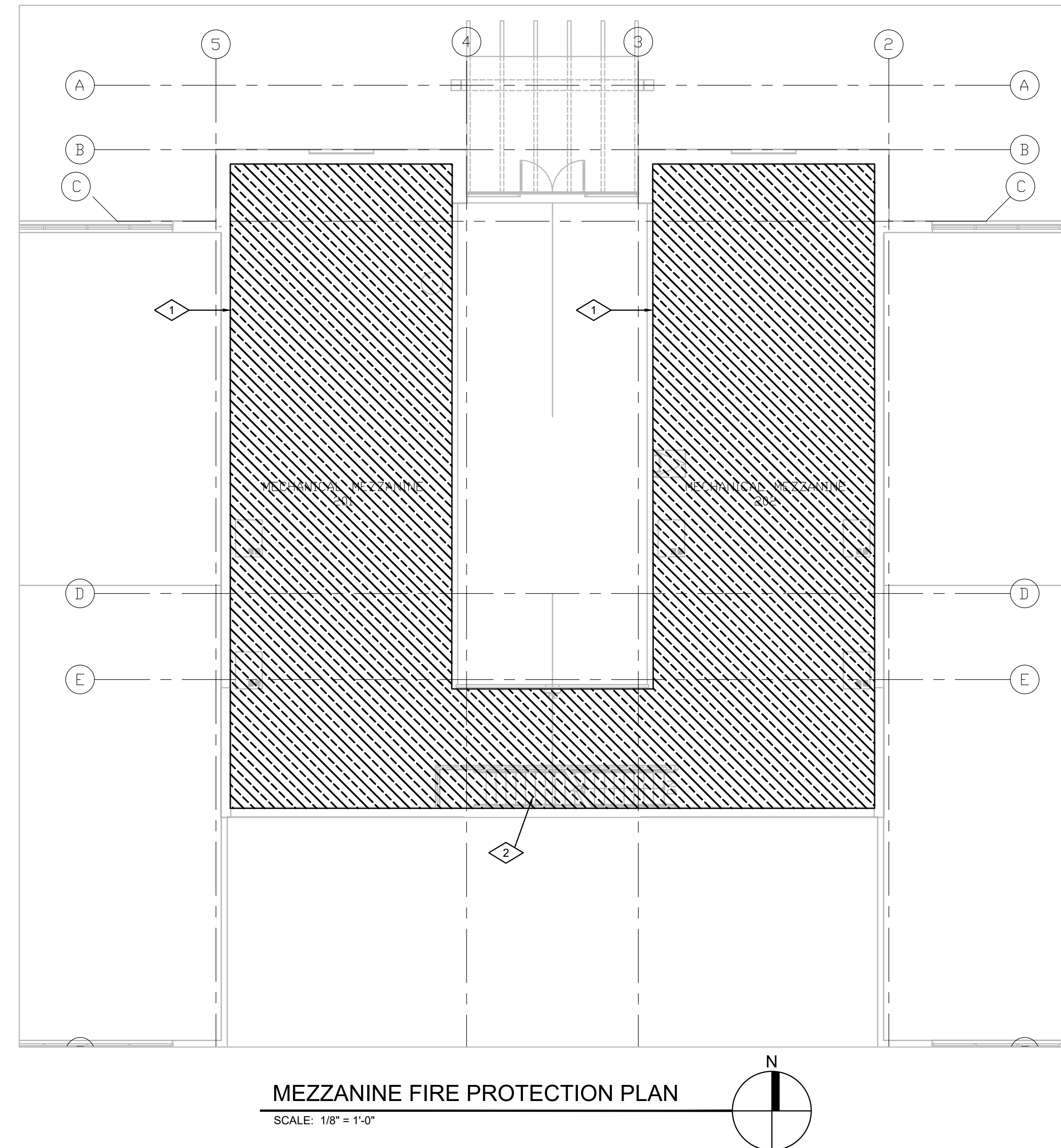
-  LIGHT HAZARD AREA. LAY-IN OR GYP BOARD CEILING. CONCEALED, PENDENT TYPE, QUICK RESPONSE, STANDARD OR EXTENDED COVERAGE TYPE HEADS WITH WHITE ADJUSTABLE COVER PLATE. RELIABLE G4 OR EQUAL.
-  LIGHT HAZARD AREA. EXPOSED STRUCTURE NEW QUICK RESPONSE, STANDARD COVERAGE UPRIGHT BRASS HEADS ON EXPOSED PIPING.
-  ORDINARY HAZARD GROUP 1 AREA. GYP BOARD CEILING. SEMI-RECESSED, QUICK RESPONSE, STANDARD COVERAGE HEADS WITH WHITE ESCUTCHEONS
-  LIGHT HAZARD, CANOPY AREA. DRY PENDENT CONCEALED, PENDENT TYPE, QUICK RESPONSE, STANDARD OR EXTENDED COVERAGE TYPE HEADS WITH WHITE ADJUSTABLE COVER PLATE. RELIABLE G5-56 OR EQUAL
-  LIGHT HAZARD AREA. ARCHITECTURAL SLATTED FAUX WOOD CEILING. COORDINATE FINAL SPRINKLER PLACEMENT WITH ARCHITECT. QUICK RESPONSE, STANDARD COVERAGE CONCEALED SPRINKLER. PROVIDE COVERAGE ABOVE AND BELOW AS REQUIRED BY N.F.P.A. 13.
-  FIRE SPRINKLER RISER
-  WALL MOUNTED ELEC HORN AND STROBE
-  WALL MTD SIAMESE FIRE DEPT CONN
-  FIRE PROTECTION PIPING
-  FIRE DEPARTMENT CONNECTION



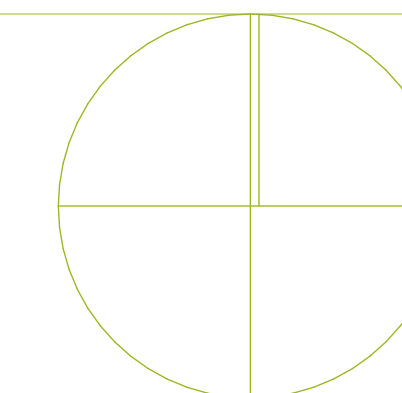
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- KEYED NOTES:
- MECHANICAL MEZZANINE. COORDINATE FIRE SPRINKLER HEAD LOCATIONS WITH GYP BOARD CEILING SYSTEM, LIGHTING, PLUMBING AND MECHANICAL TRADES.
 - STAIRWELL. PROVIDE FIRE SPRINKLER PROTECTION ABOVE AND BELOW STAIRWELL IN ACCORDANCE WITH NFPA 13.



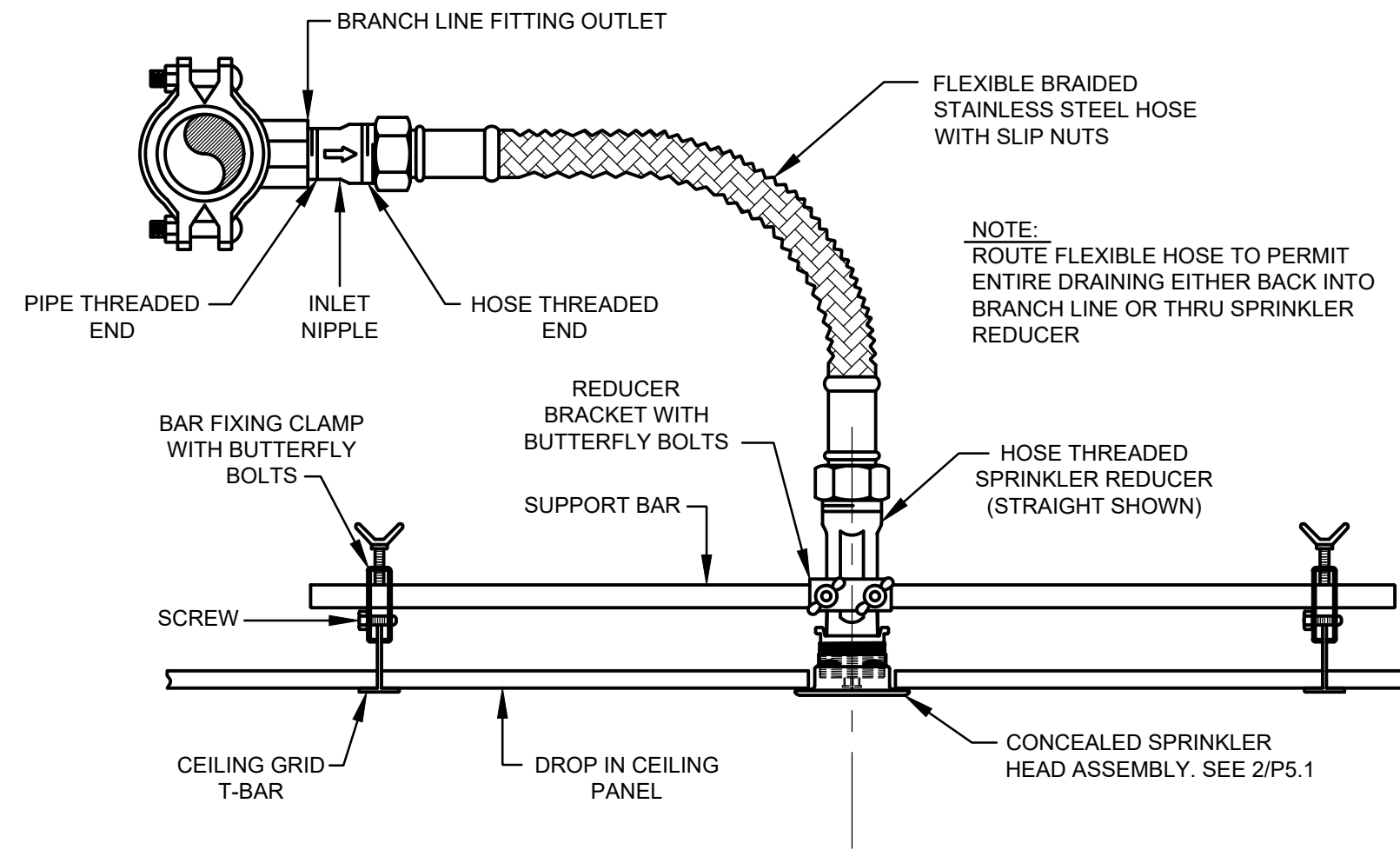
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GENERAL FIRE PROTECTION NOTES



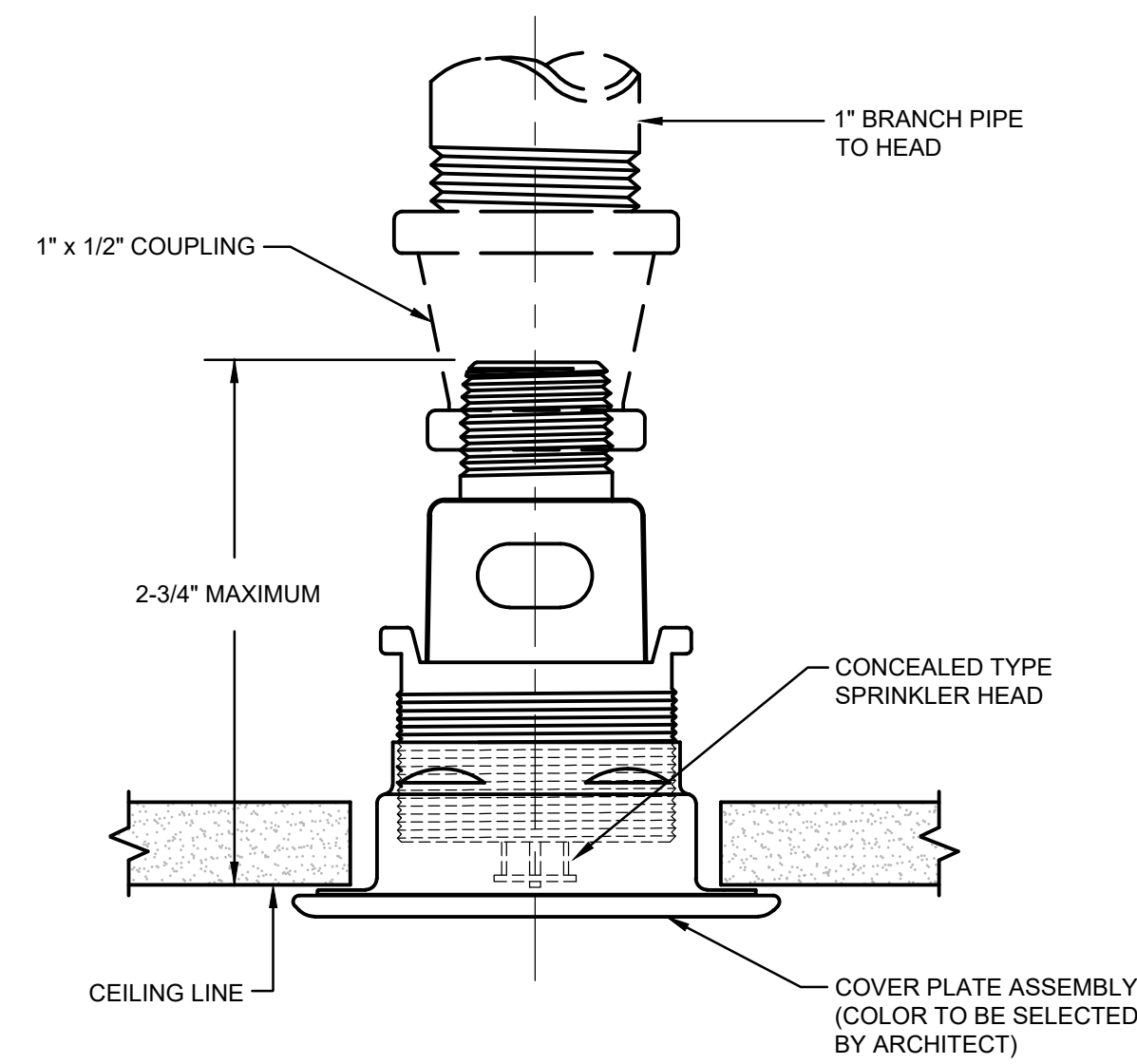
- THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ELECTRICAL, SHEET METAL, PLUMBING, AND CEILING CONTRACTORS TO AVOID ANY CONFLICTS IN PIPE ROUTING OR HEAD LOCATIONS.
- RUN SPRINKLING PIPING AS HIGH AS POSSIBLE ABOVE CEILING AND COORDINATE WITH DUCTWORK.
- FIRE SPRINKLER PLANS SHALL BE APPROVED BY ALL GOVERNING AGENCIES PRIOR TO SUBMITTING PLANS TO THE ARCHITECT.
- THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE COMPLETE FIRE SPRINKLER SYSTEMS, INCLUDING ALL ITEMS AS REQUIRED OR RECOMMENDED BY ALL GOVERNING AGENCIES.
- FIRE SPRINKLER SYSTEM SHALL COMPLY WITH N.F.P.A. 13, AND ALL GOVERNING AGENCIES.
- PIPE SLEEVES THROUGH FIRE-RATED WALLS, PARTITIONS, AND CEILINGS SHALL BE OF FIRE RATED CONSTRUCTION. SPACE BETWEEN PIPE AND SLEEVE SHALL BE PACKED WITH FIREPROOF MATERIAL, U.L. LISTED. (FIRE SHIELDS, INC. MODEL DFB-CS)
- FIRE SPRINKLER HEADS IN INDIVIDUAL ROOMS TO BE RUN IN STRAIGHT LINES AND COORDINATED WITH CEILING AND LIGHTS.
- FIRE SPRINKLER CONTRACTOR SHALL COORDINATE HIS LOCATION OF PIPING VERY CAREFULLY WITH THE ARCHITECTURAL AND STRUCTURAL PLANS AND AS APPROVED BY THE ARCHITECT.
- HEAD GUARDS TO BE PROVIDED IN ACCORDANCE WITH N.F.P.A.
- FIRE SPRINKLER TEST VALVES TO BE LOCATED IN AREAS CONVENIENT TO MAINTENANCE PERSONNEL, BUT AWAY FROM PUBLIC ACCESS.
- THE UTAH STATE FIRE MARSHALS OFFICE SHALL BE NOTIFIED (IN WRITING) AT LEAST THREE DAYS IN ADVANCE OF THE FOLLOWING:
 - HYDROSTATIC TEST AND FINAL INSPECTION OF OVERHEAD SYSTEMS PRIOR TO INSTALLATION OF CEILINGS.
 - FLUSHING OF UNDERGROUND PRIOR TO CONNECTION OF OVERHEAD.
 - HYDROSTATIC TEST AND FINAL INSPECTION OF UNDERGROUND PRIOR TO BACKFILLING.
- CONTRACTOR SHALL FIELD VERIFY ALL PIPE LOCATIONS PRIOR TO FABRICATION OF PIPE SYSTEMS.
- FIRE PROTECTION DRAWINGS ARE DIAGRAMMATIC ONLY.
- FIRE PROTECTION CONTRACTOR SHALL COORDINATE ROUTING, HANGING AND BRACING WITH ROOF STRUCTURE. ALL FIRE SPRINKLER PIPING SHALL COMPLY WITH THE FOLLOWING.
 - ALL PIPING CONCENTRATED LOADS GREATER THAN 100 POUNDS SUPPORTED BY OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE LOCATED WITHIN 6 INCHES OF JOIST OR GIRDER PANEL POINTS OR THE JOIST OR GIRDER SHALL BE REINFORCED WITH AN ADDITIONAL WEB MEMBER. REFER TO GENERAL STRUCTURAL NOTES AND THE "TYPICAL DETAIL AT ADDITIONAL CONCENTRATED POINT LOAD" ON THE STRUCTURAL DRAWINGS.
 - CONCENTRATED POINT LOADS, SINGLE OR MULTIPLE, TOTALING 100 POUNDS OR LESS CAN BE LOCATED AT ANY POINT ALONG THE BOTTOM CHORD OF AN OPEN WEB JOIST OR GIRDER BETWEEN ADJACENT PANEL POINTS WITHOUT MEETING THE REQUIREMENTS ABOVE. A LIMIT OF (4) CONCENTRATED 100# MAXIMUM POINT LOADS PER JOIST OR GIRDER SHALL BE PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
 - JOIST BRIDGING SHALL NEVER BE USED TO SUPPORT HANGING LOADS.
 - BRACING OF FIRE SPRINKLER PIPING TO THE BOTTOM CHORD OF JOISTS OR GIRDERS WILL NOT BE ALLOWED IN ANY INSTANCE. ALL LATERAL BRACES MUST CONNECT TO THE TOP FLANGE/TOP CHORD OF THE FRAMING MEMBER ABOVE UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
 - PIPING SHALL BE BRACED TO RESIST BOTH LATERAL AND LONGITUDINAL SEISMIC LOADS. EARTHQUAKE BRACING CALCULATIONS TO BE MADE WITH S_s VALUE IN STRUCTURAL DRAWINGS
 - RESTRAINTS OR LATERAL SWAY BRACES SHALL BE PROVIDED ON BRANCHLINES WHERE PIPING IS NOT SUPPORTED WITHIN 6 IN. OF THE STRUCTURE.
- ROOF DECKING SHALL NOT BE USED TO SUPPORT LOADS FROM FIRE SPRINKLER ELEMENTS OR EQUIPMENT OF ANY KIND.
- ALL FIRE SPRINKLER PIPING RUNNING IN OCCUPIED AREAS WITH EXPOSED STRUCTURE SHALL RUN WITH SLOPE OF ROOF DECK.
- FIRE SPRINKLER CONTRACTOR SHALL COORDINATE ANY CROSSOVERS OR DROPS AT MAIN CORRIDOR TO AVOID CONFLICTS WITH CLEARSTORY. DROPS & CROSSOVER LOCATIONS SHALL BE VERIFIED WITH PROJECT ARCHITECT PRIOR TO INSTALLATION.
- ALL FIRE MAINS SHALL RUN ABOVE AREAS WITH CEILINGS. NO MAINS WILL BE ALLOWED IN OCCUPIED AREAS EXPOSED TO ROOF DECK.
- IN EXPOSED AREAS THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE PIPING & HEAD LOCATIONS WITH HVAC ARCHITECTURAL REFLECTED CEILING PLANS, DUCTWORK, DIFFUSERS AND ALL LIGHTING LAYOUTS.
- FIRE SPRINKLER HEADS IN ALL CORRIDORS SHALL BE INSTALLED DOWN THE CENTERLINE OF THE CORRIDOR.
- ALL PIPE PENETRATIONS OF CONCRETE, CMU OR BRICK WALLS SHALL BE SLEEVED OR CORE CUT.
- ALL PIPE PENETRATIONS OF SHEETROCK WALLS SHALL BE SAWCUT.
- ALL PENETRATIONS AT 1 HOUR AND 2 HOUR WALLS SHALL BE FIRE CAULKED PER RATING REQUIRED. COORDINATE WITH LIFE SAFETY PLAN.
- ALL PENDENT SPRINKLER HEADS IN DROP CEILINGS SHALL BE LOCATED AT CENTER OF TILE AND 1/4 POINTS.



SPRINKLER HOSE DETAIL

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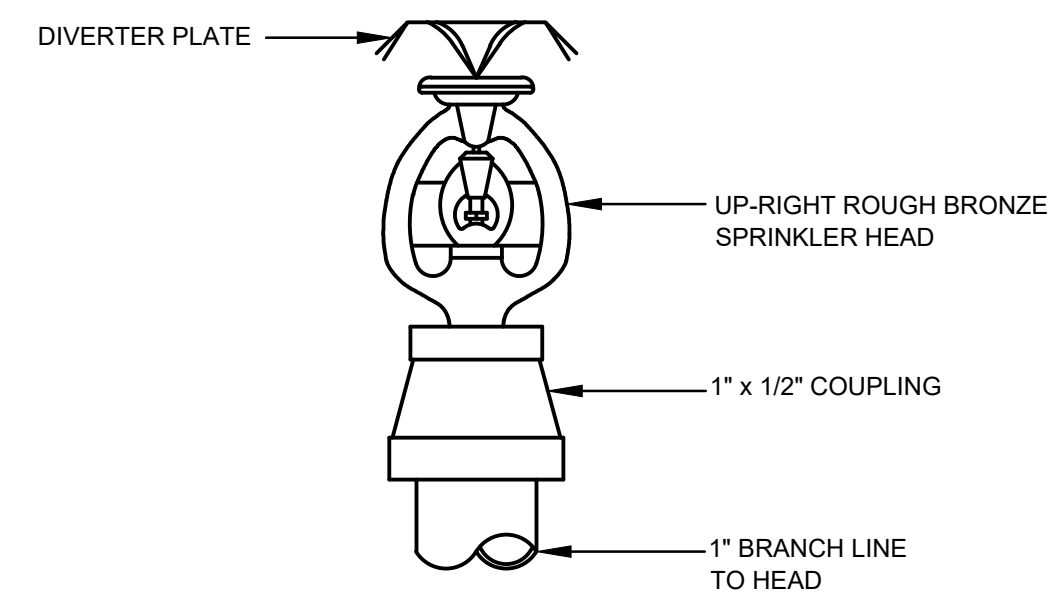
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CONCEALED SPRINKLER HEAD DETAIL

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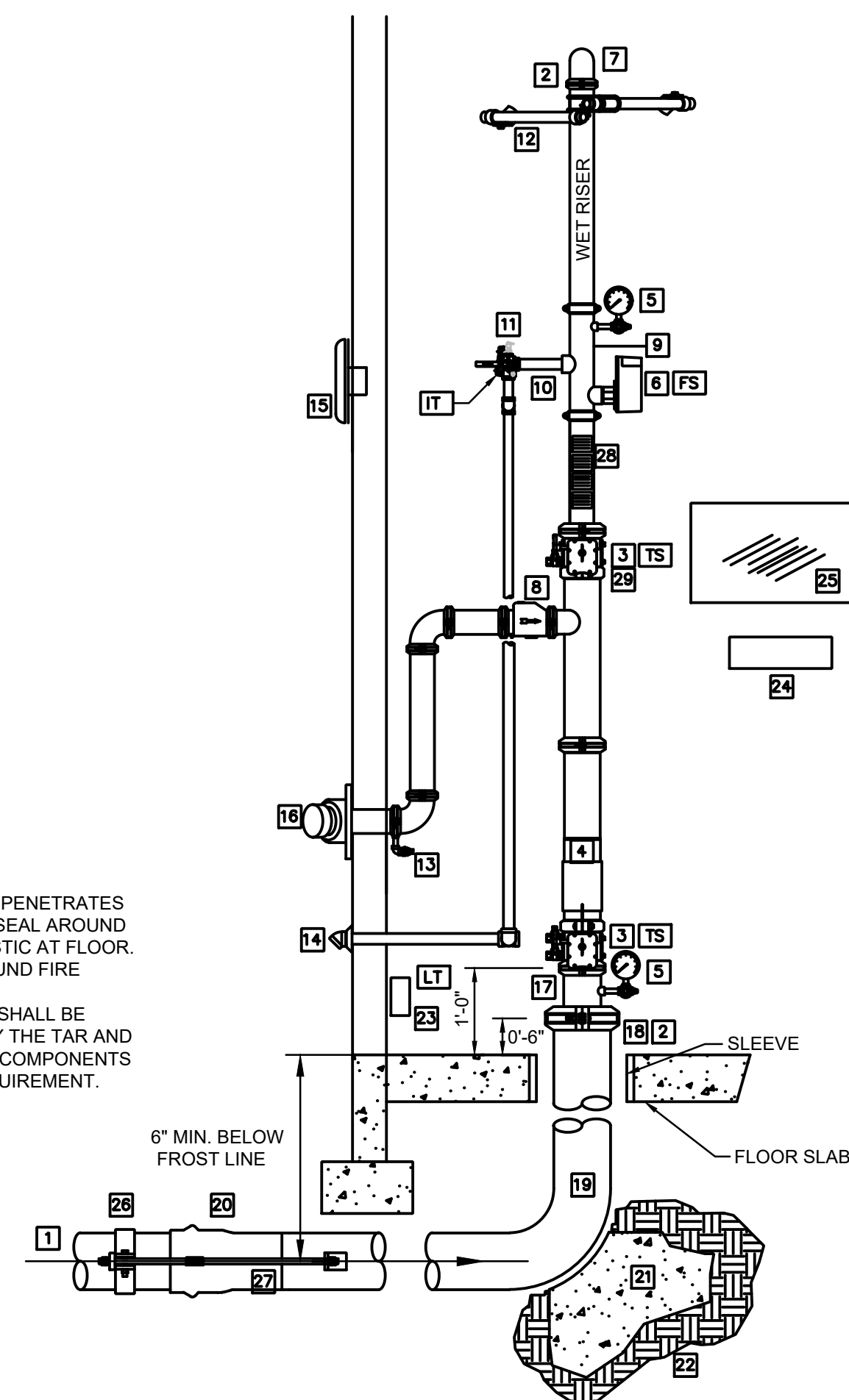
UPRIGHT ROUGH BRONZE, WHITE OR CHROME SPRINKLER HEAD DETAIL

4
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NOT TO SCALE

GENERAL NOTES:

- PROVIDE SLEEVES WHERE PIPING PENETRATES BUILDING AT FLOOR AND WALLS. SEAL AROUND PENETRATION WITH FLEXIBLE MASTIC AT FLOOR. PROVIDE 2" ANNULAR SPACE AROUND FIRE SERVICE PIPE.
- ALL BURIED STEEL COMPONENTS SHALL BE PROTECTED FROM CORROSION BY THE TAR AND WRAPPED METHOD. GALVANIZED COMPONENTS ARE NOT EXEMPT FROM THIS REQUIREMENT.



FIRE SPRINKLER RISER DETAIL

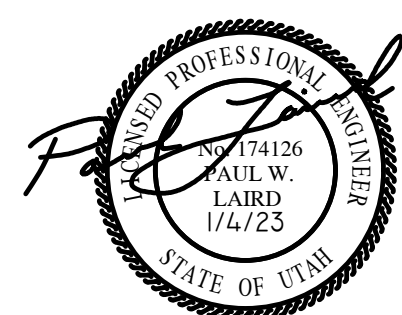
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DETAIL KEYED NOTES:

- WATER SUPPLY FROM CITY WATER MAIN. SEE SITE UTILITY PLAN FOR CONTINUATION.
- FLEXIBLE GROOVED PIPE COUPLING WHEN SEISMIC BRACING IS REQUIRED. SEE NOTE #12.
- GROOVED BUTTERFLY VALVE WITH INTEGRAL SUPERVISORY SWITCH.
- DOUBLE CHECK BACKFLOW PREVENTER WITH RELATED TRIM AND GAUGES.
- 3/2" DIAMETER WATER GAUGE WITH 1/2" TEST AND ISOLATION VALVE.
- VANE TYPE WATER FLOW SWITCH.
- SUPPLY TO WET PIPE FIRE SPRINKLER SYSTEM.
- SWING CHECK VALVE.
- RISER MANIFOLD - INCLUDES PRESURE GAUGE, FLOW SWITCH, PRESSURE RELIEF VALVE, AND TEST AND MAIN DRAIN DEVICE.
- INSPECTOR'S TEST & DRAIN VALVE - PIPE TO OUTSIDE.
- PRESSURE RELIEF VALVE - REQUIRED - SET AT 175 PSI.
- SEISMIC BRACING REQUIRED IN SEISMIC DESIGN CATEGORY C, D, E, F. SEE DESIGN CRITERIA SCHEDULE ON SHEET S801.
- 1/2" AUTOMATIC BALL DRIP VALVE.
- DRAIN PIPING TO OUTSIDE WITH GALVANIZED PIPE, 45 ELL, AND 1-PCE GALV. COLLAR.
- WEATHERPROOF ELECTRIC HORN AND STROBE MOUNTED OR EXTERIOR WALL PER AHJ.
- OUT TO FIRE DEPARTMENT CONNECTION WITH GALVANIZED SCH 40 PIPING- PROVIDE BALL DRIP WHEN TRAPPING PIPE. SIZE CONNECTION AS REQUIRED.
- GALVANIZED SPOOL PIECE WITH PRESSURE GAUGE.
- REDUCING GROOVED COUPLING OR CONCENTRIC GROOVED REDUCER.
- AMES STAINLESS STEEL "IN-BUILDING-RISER" NO SUBSTITUTIONS, MINIMUM 6 INCH.
- TYTON JOINT PIPE CONNECTION WITH GASKET.
- CONCRETE THRUST BLOCK WITH 8 SQ. FEET HORIZONTAL BEARING AREA (MIN).
- UNDISTURBED EARTH.
- LOW TEMPERATURE SENSOR - MOUNTED ON WALL - THIS SENSOR IS PROVIDED UNDER DIVISION 28 OF THE SPECIFICATIONS.
- SPARE HEAD CABINET WITH SPARE SPRINKLER HEADS AND WRENCHES.
- LAMINATED SYSTEM MAP WITH SYSTEM START-UP AND SHUT-DOWN INSTRUCTIONS.
- GALVANIZED STEEL PIPE RETAINER CLAMP.
- GALVANIZED STEEL RODS, SIZE PER NFPA 24, TO INCLUDE WASHERS, ROD COUPLINGS, AND ALL-THREAD RODS WITH DOUBLE HEX NUTS.
- HYDRAULIC CALCULATION PLACARDS.
- WIRING FOR ELECTRIC ALARM - BY ELECTRICIAN TO FIRE ALARM.

STUDIO 333 ARCHITECTS
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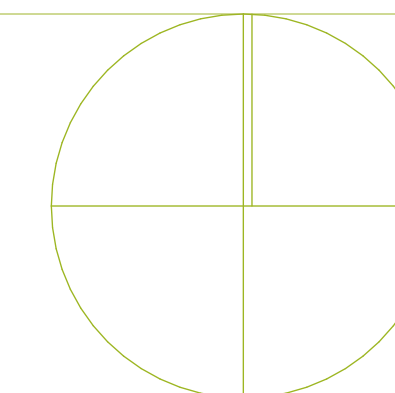
WEST FIELD SR SEMINARY
4383 W 2200 S, OGDEN, UT

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NO.	DATE	DESCRIPTION

CONFORMED SET
DATE: 04.27.23
PROJECT NUMBER: 2154



FIRE PROTECTION DETAILS FP5.1