

- LEGEND
- SUPPLY DUCT
 - RETURN DUCT
 - FRESH AIR DUCT
 - EXHAUST DUCT
 - FLEX DUCT
 - CONDENSATE DRAIN LINE
 - REFRIGERANT LINE
 - SUPPLY AIR GRILLE
 - RETURN AIR GRILLE
 - EXHAUST FAN

1 SANCTUARY HVAC PLAN - ROOF
Scale: 1/8" = 1'

REVISIONS:	
DATE	BY

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SANCTUARY HVAC PLAN - ROOF

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potterac@aol.com

SHEET NUMBER

M1.1

JULY 28, 2010



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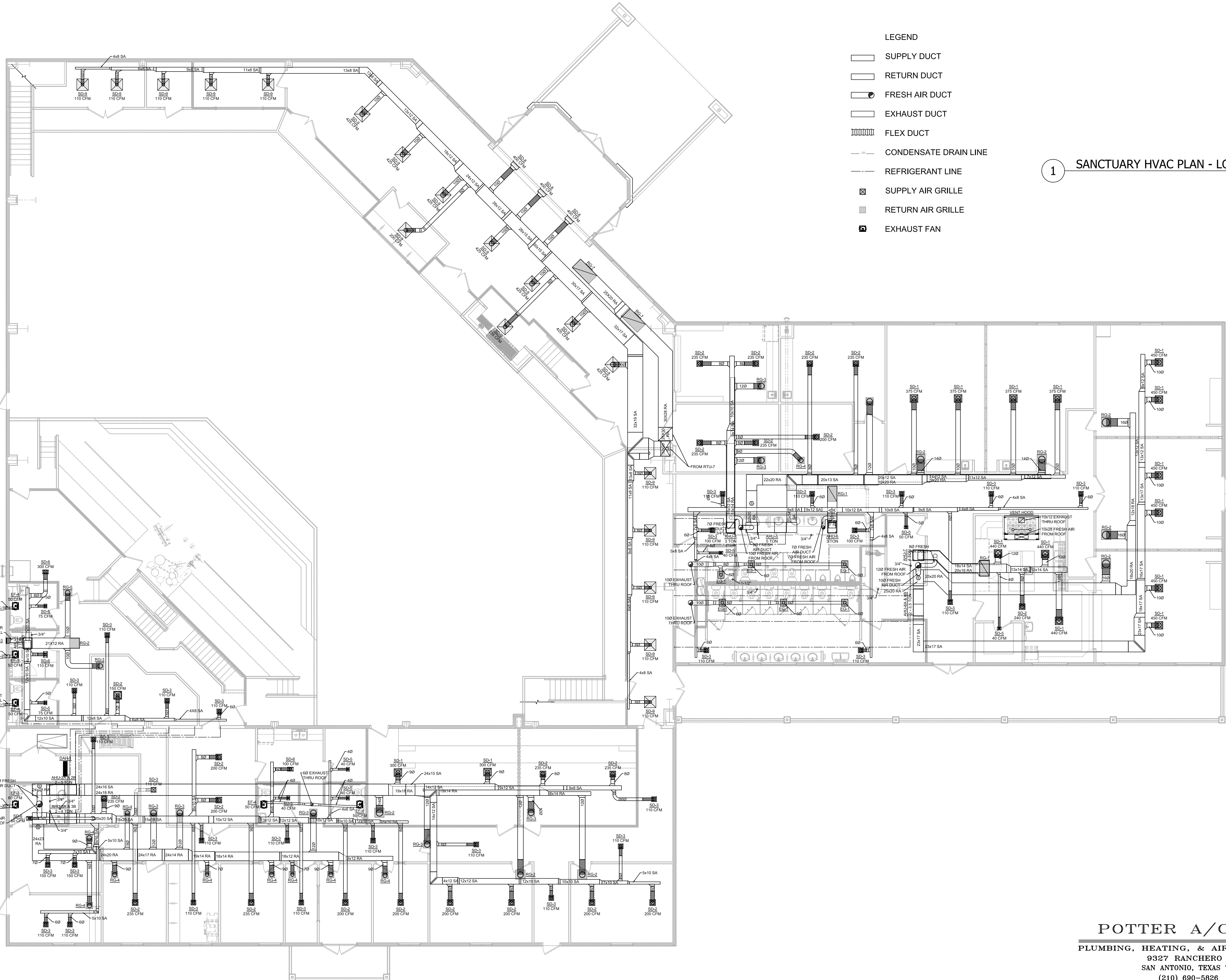


SHEET NUMBER

M1.2

JULY 28, 2010

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- LEGEND
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 - FLEX DUCT
 - CONDENSATE DRAIN LINE
 - REFRIGERANT LINE
 - SUPPLY AIR GRILLE
 - RETURN AIR GRILLE
 - EXHAUST FAN

1 SANCTUARY HVAC PLAN - LOWER LEVEL
Scale: 1/8" = 1'

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SANCTUARY HVAC PLAN - LOWER LEVEL

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SHEET NUMBER

M1.3

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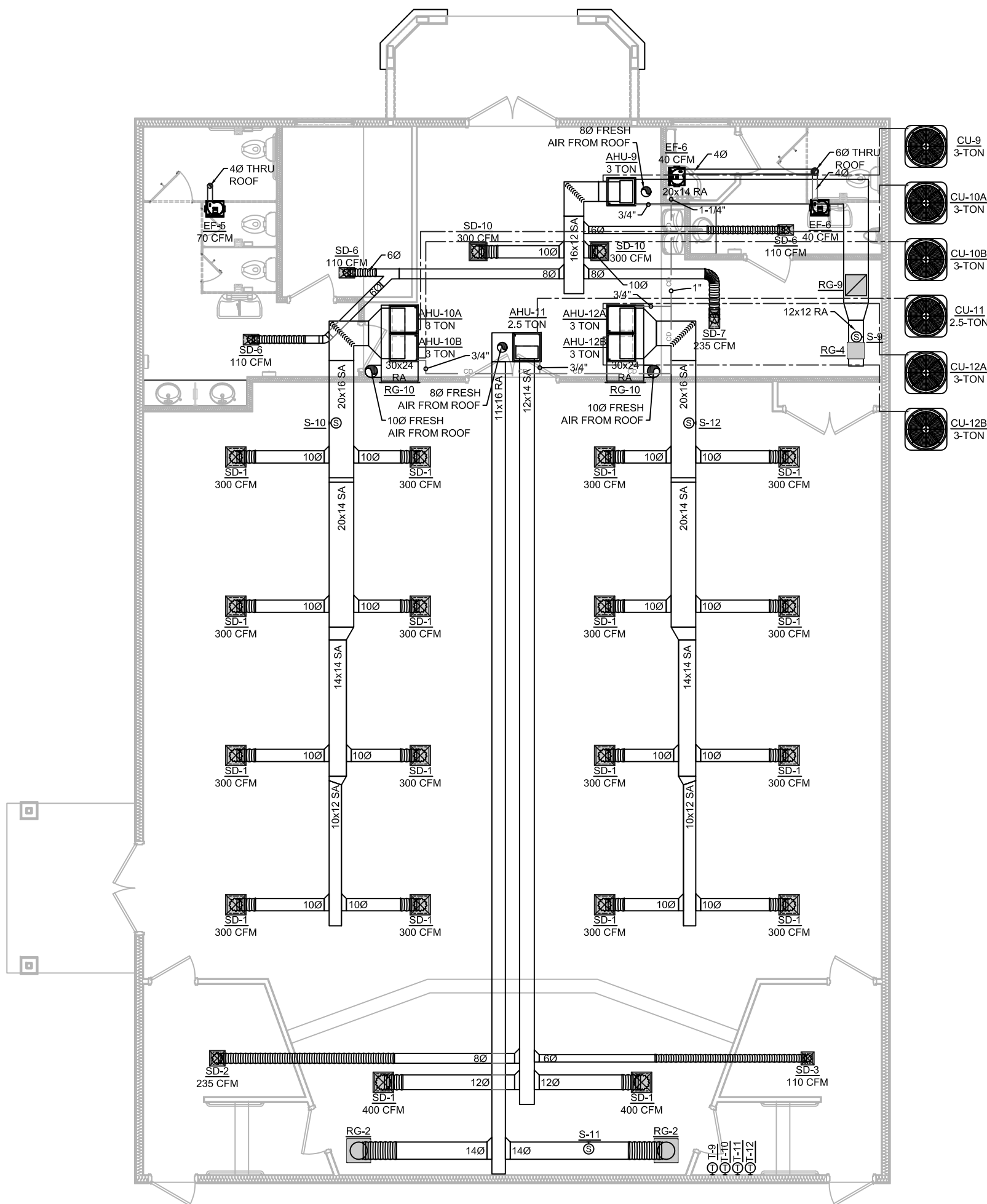
CHAPEL HVAC PLAN AND AIR HANDLER DETAILS

SHEET NUMBER

M1.4

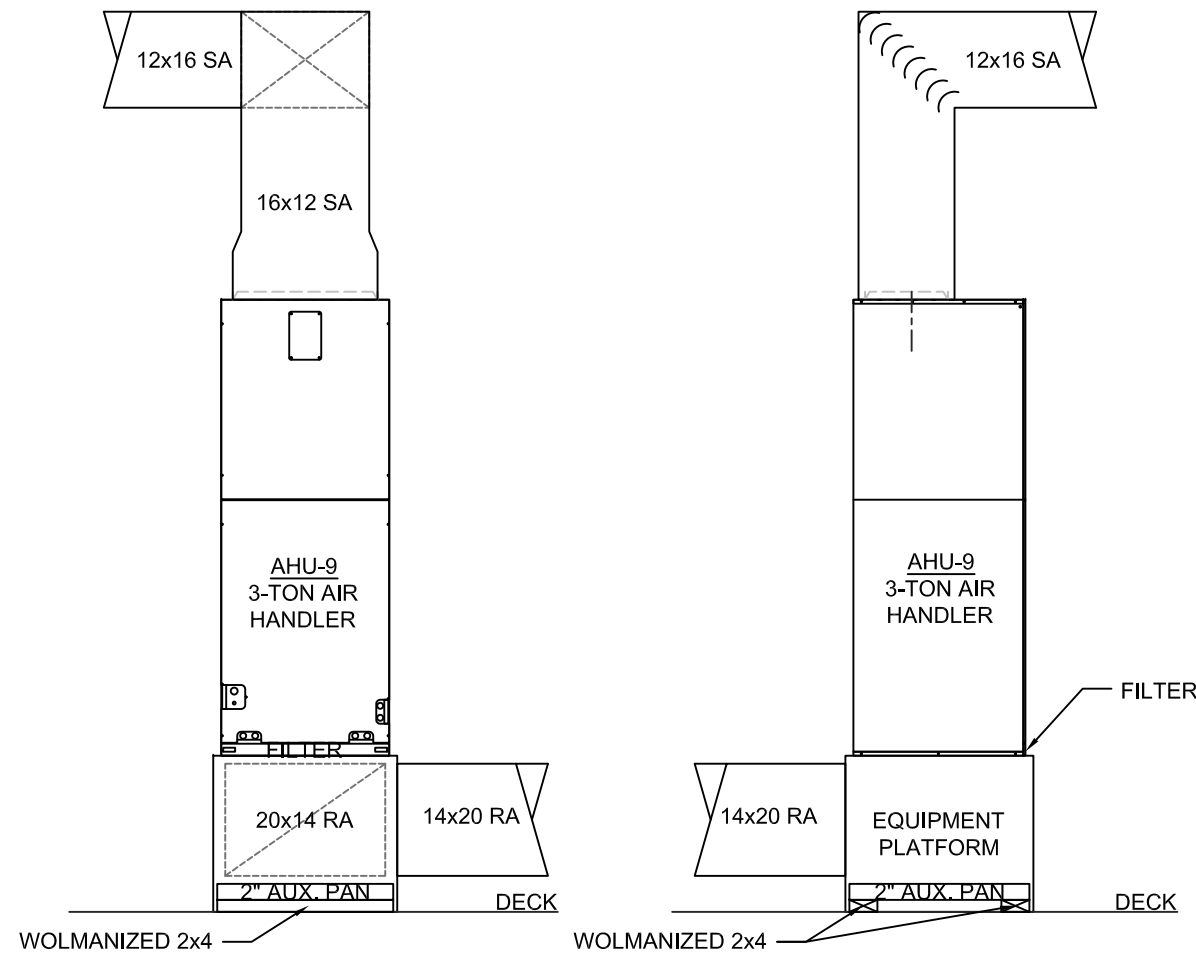
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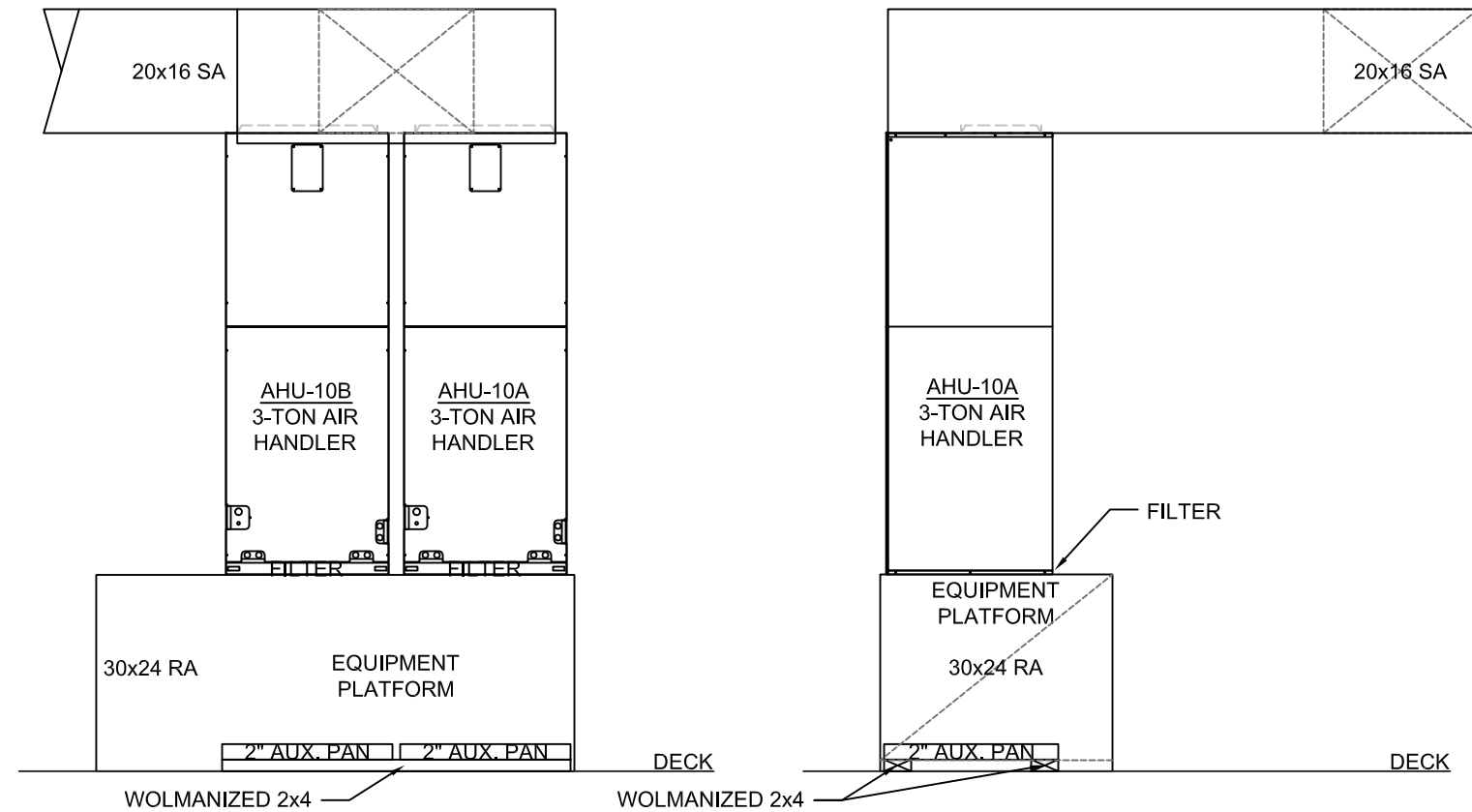


1 CHAPEL HVAC PLAN
Scale: 1/8" = 1'

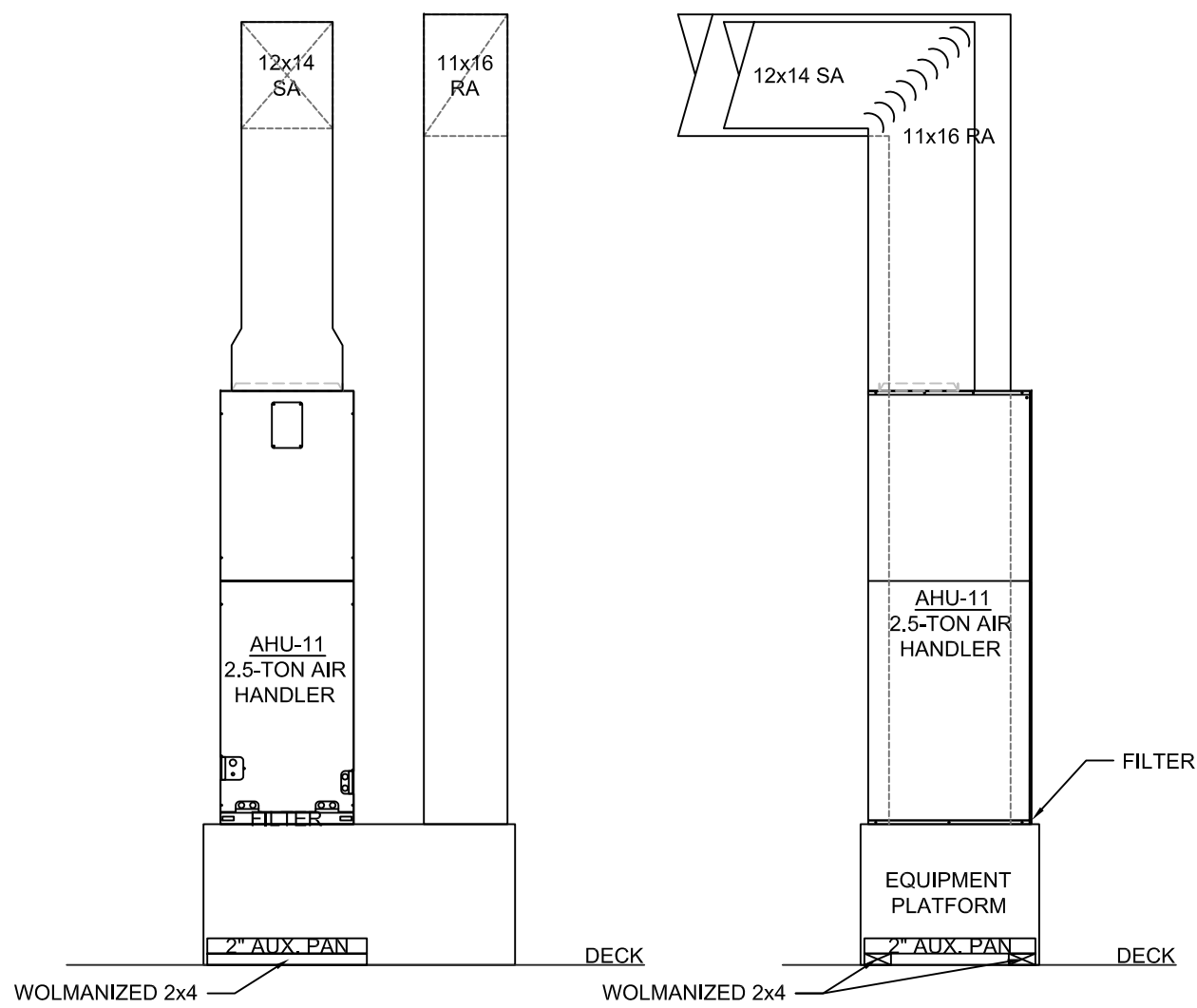
- LEGEND
- SUPPLY DUCT
 - RETURN DUCT
 - FRESH AIR DUCT
 - EXHAUST DUCT
 - FLEX DUCT
 - CONDENSATE DRAIN LINE
 - REFRIGERANT LINE
 - SUPPLY AIR GRILLE
 - RETURN AIR GRILLE
 - EXHAUST FAN
 - THERMOSTAT
 - SENSOR (DUCT MOUNTED)



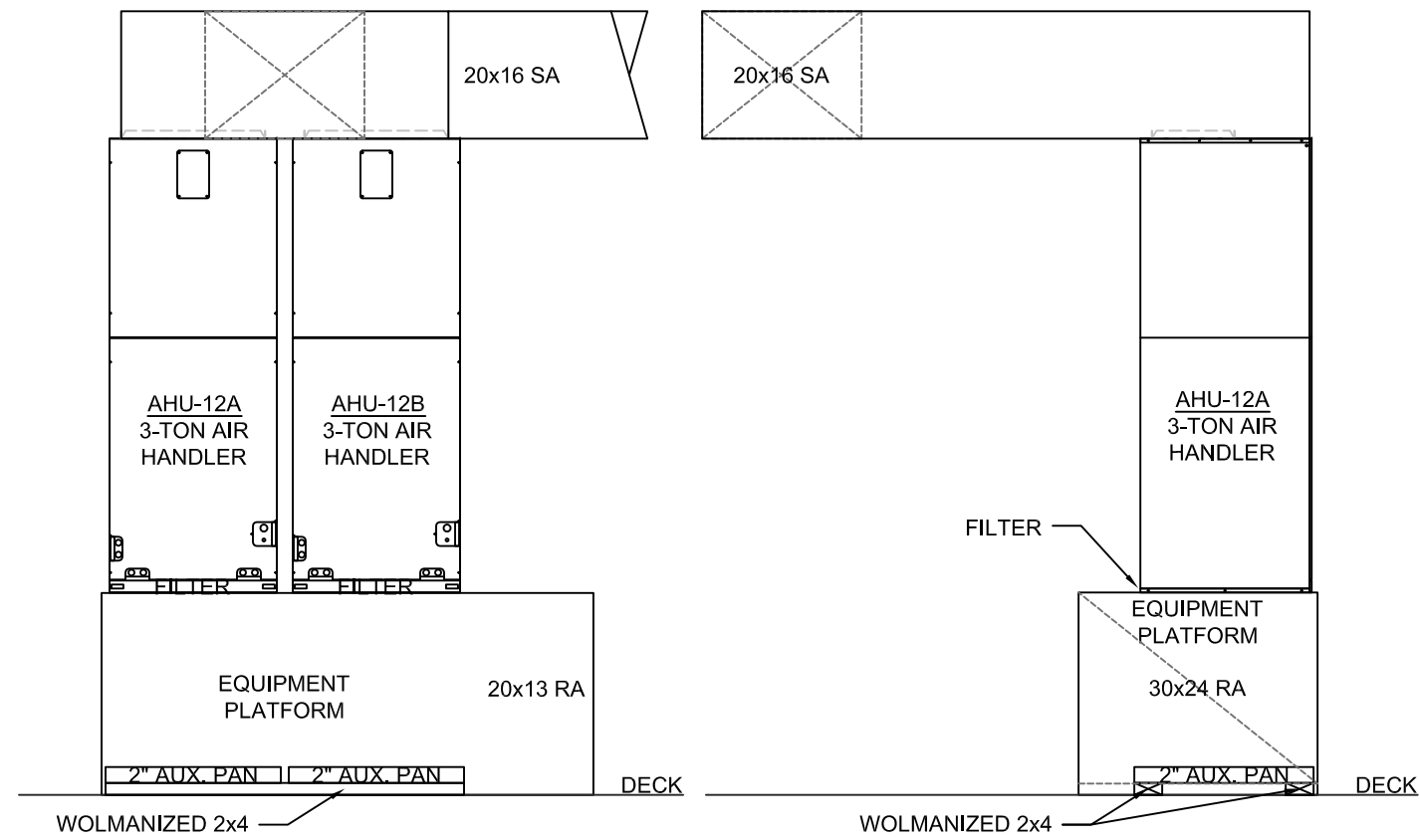
FRONT VIEW PROFILE VIEW
AIR HANDLER 9 DETAIL



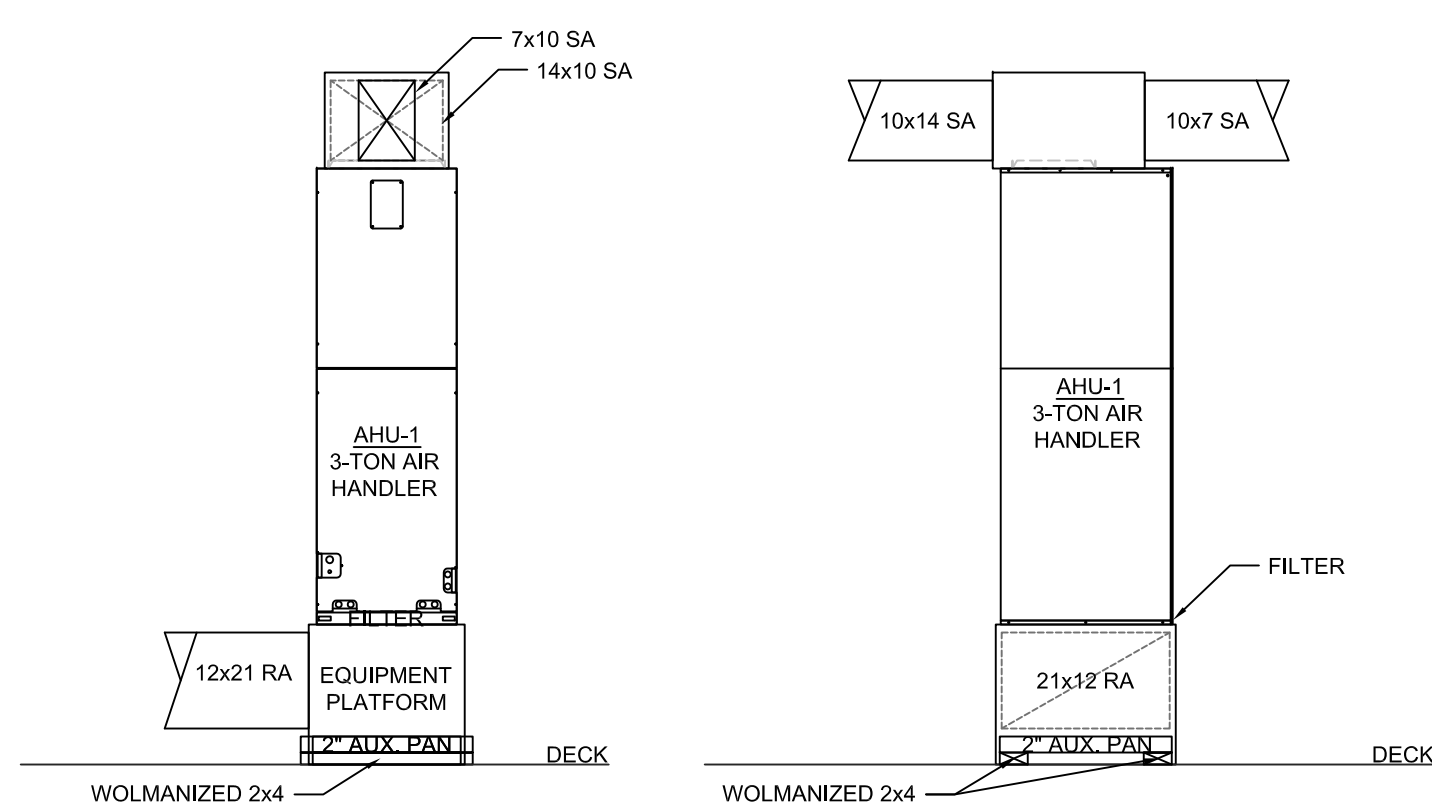
FRONT VIEW PROFILE VIEW
AIR HANDLER 10A & 10B DETAIL



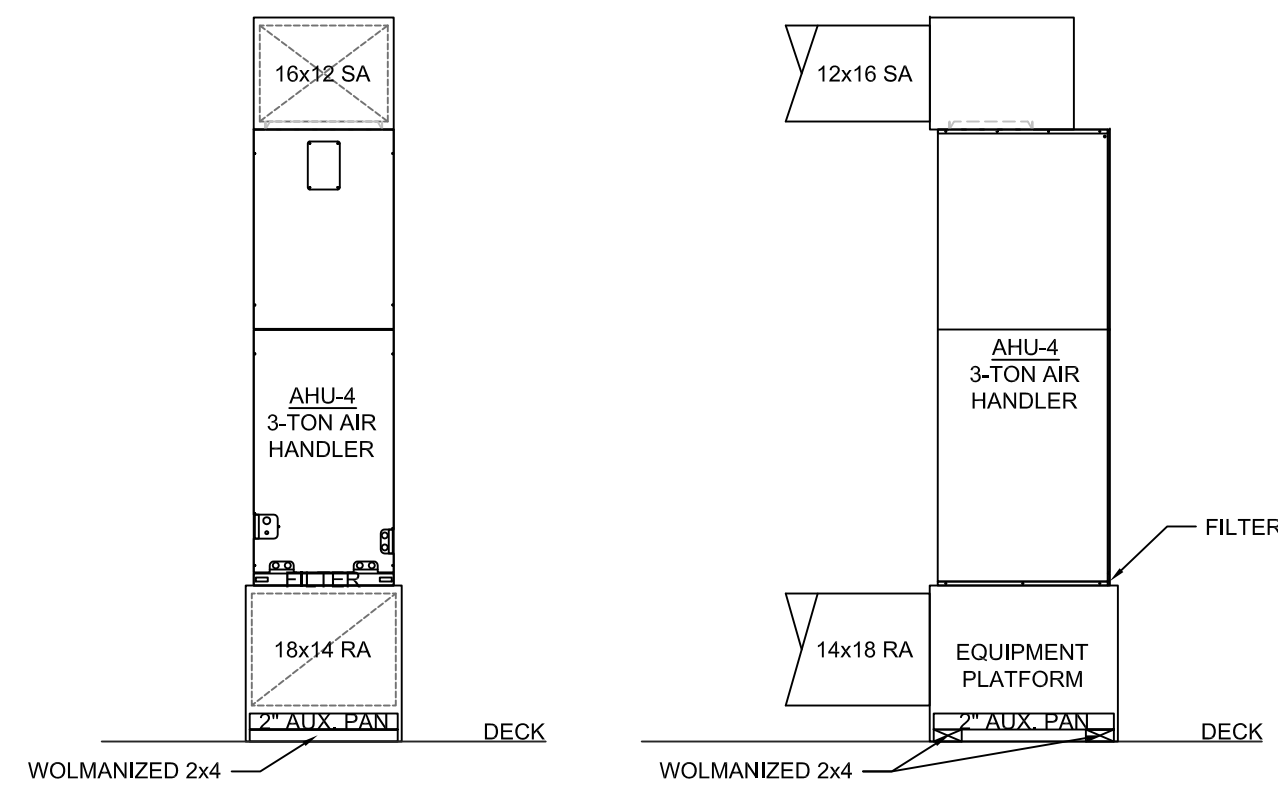
FRONT VIEW PROFILE VIEW
AIR HANDLER 11 DETAIL



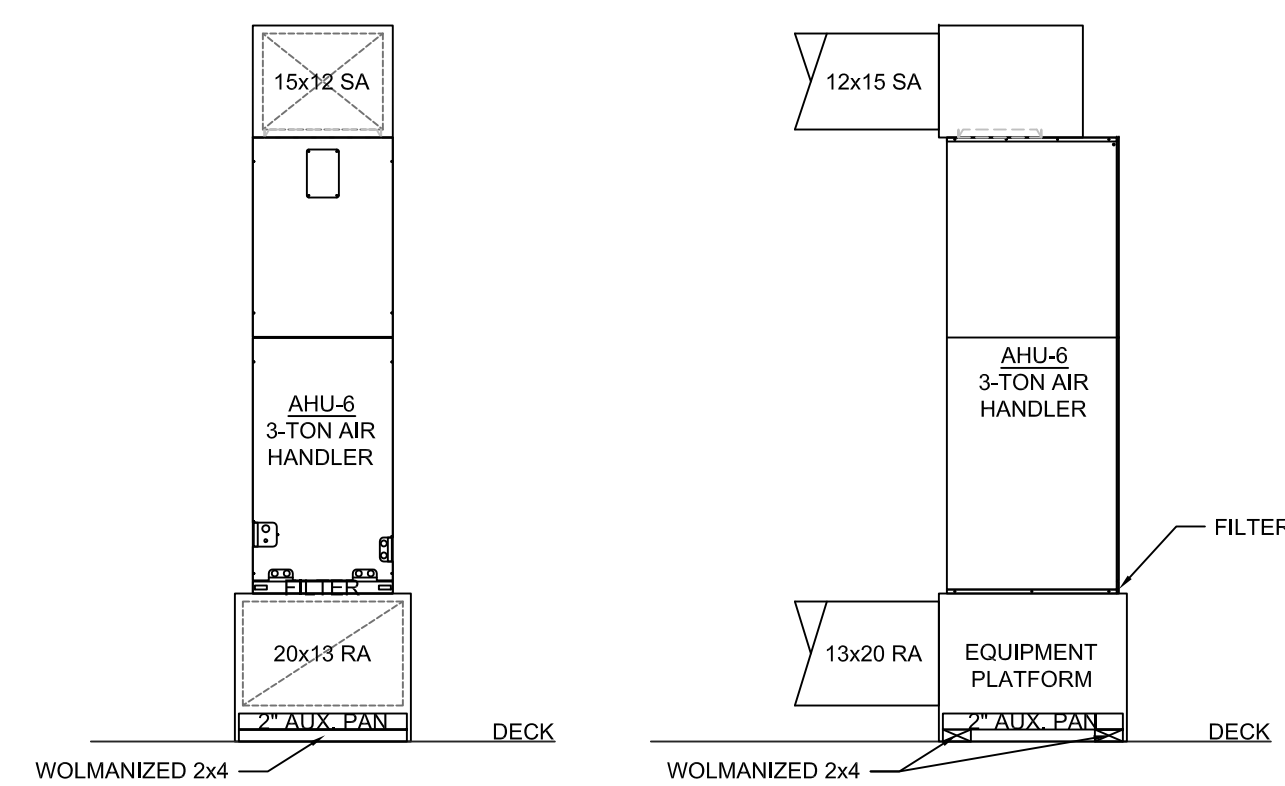
FRONT VIEW PROFILE VIEW
AIR HANDLER 12A & 12B DETAIL



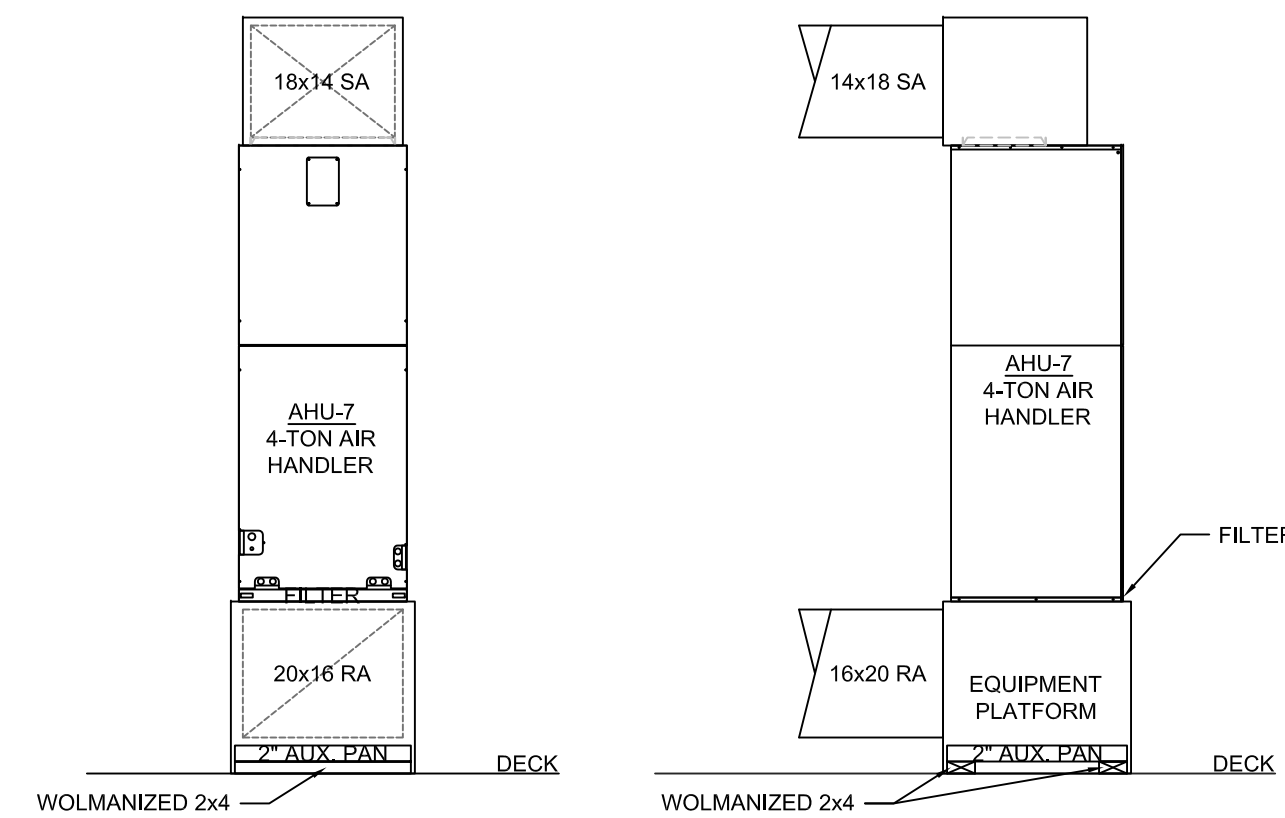
FRONT VIEW
PROFILE VIEW
AIR HANDLER 1 DETAIL



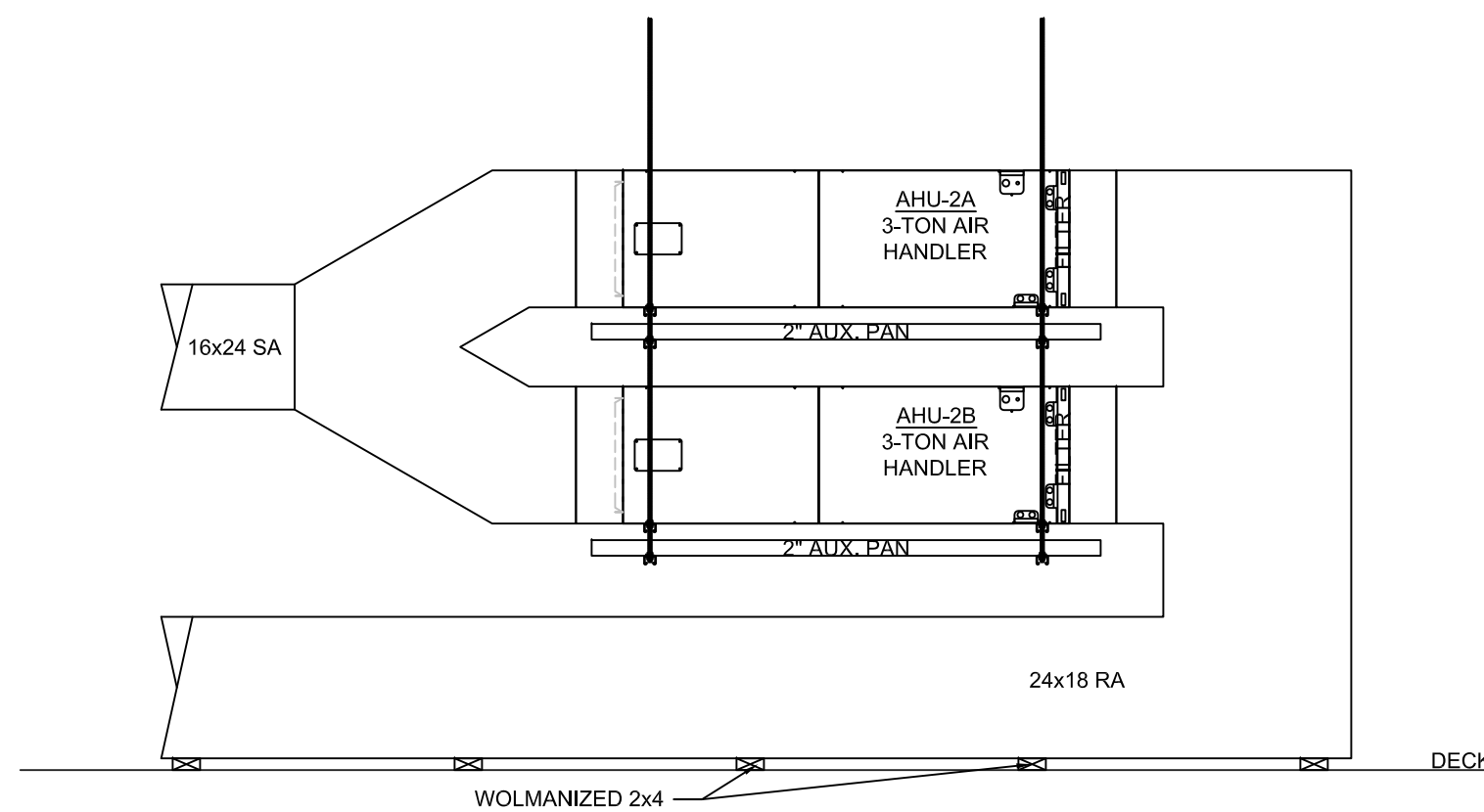
FRONT VIEW
PROFILE VIEW
AIR HANDLER 4 DETAIL



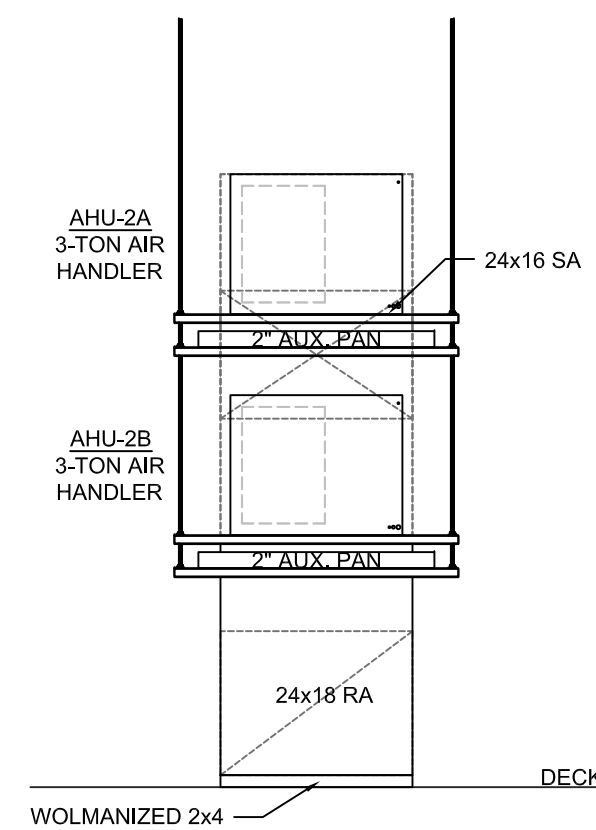
FRONT VIEW
PROFILE VIEW
AIR HANDLER 6 DETAIL



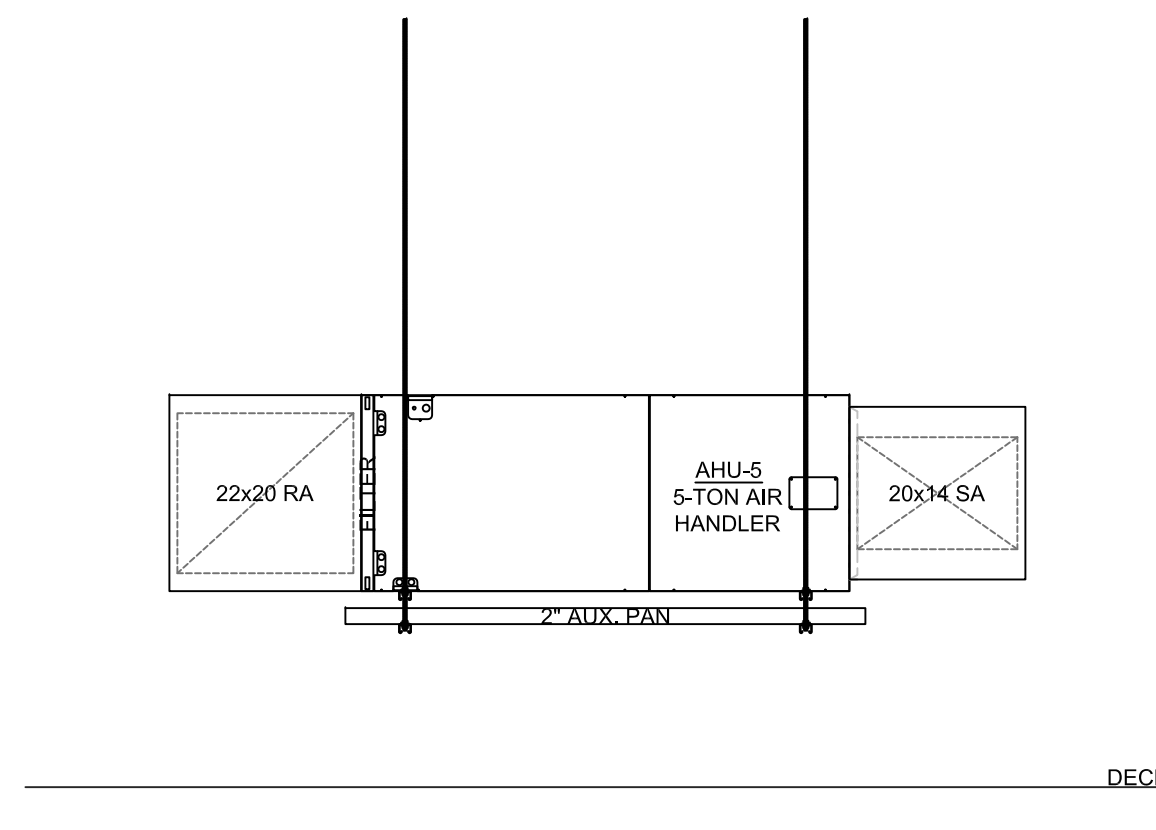
FRONT VIEW
PROFILE VIEW
AIR HANDLER 7 DETAIL



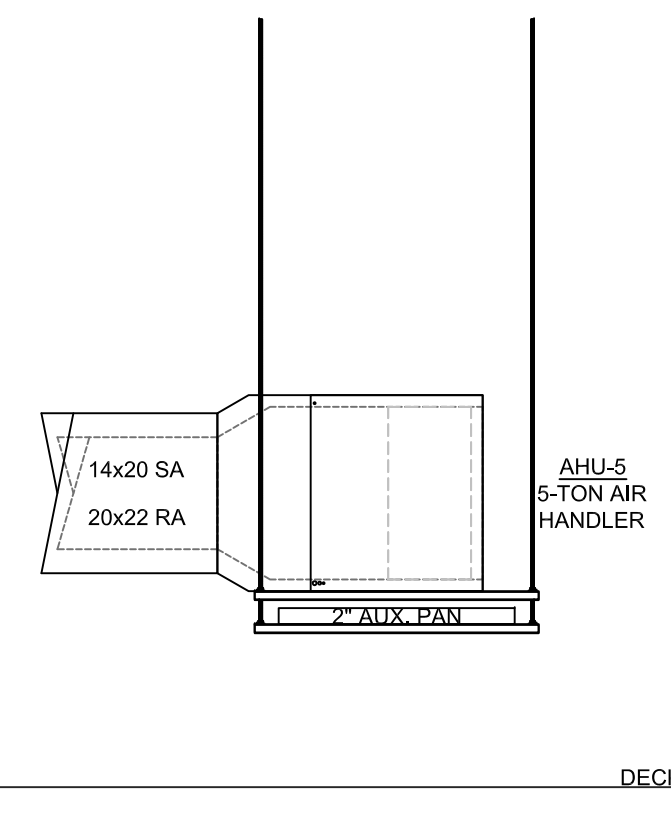
FRONT VIEW
AIR HANDLER 2A & 2B DETAIL



PROFILE VIEW

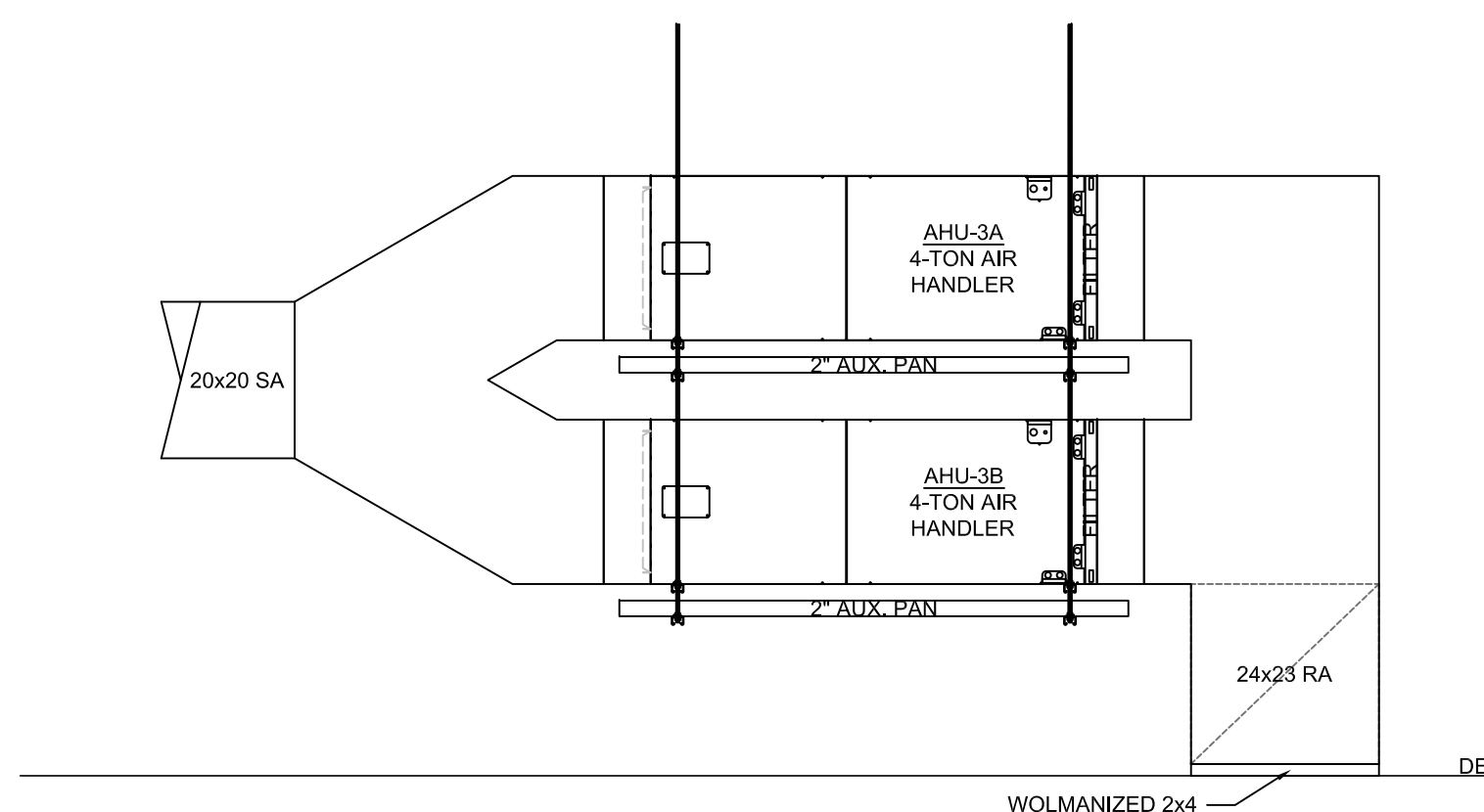


FRONT VIEW



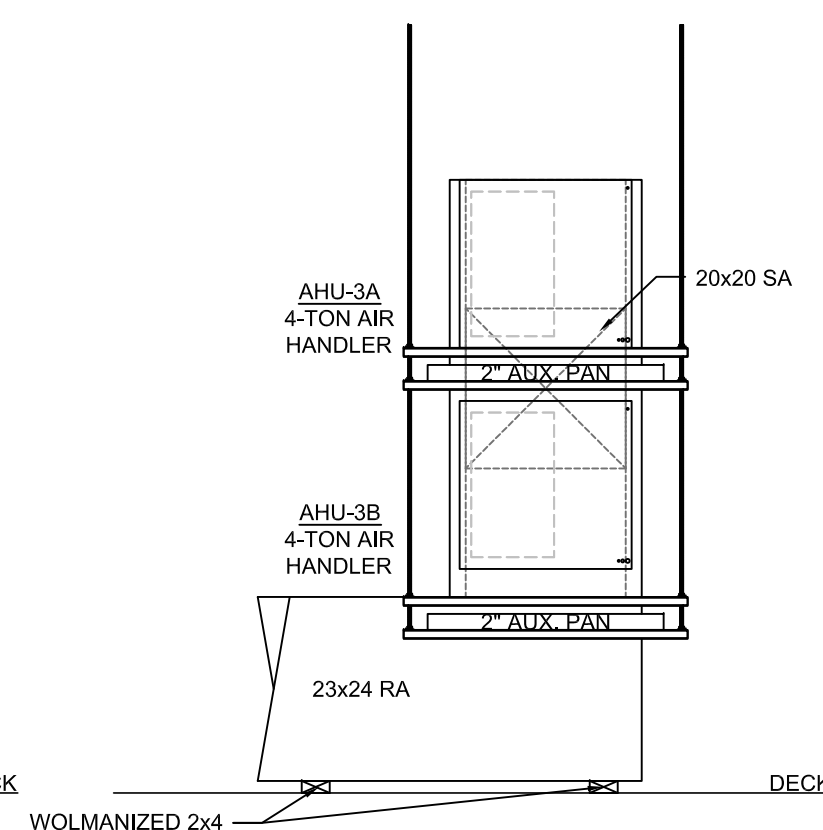
PROFILE VIEW

AIR HANDLER 5 DETAIL

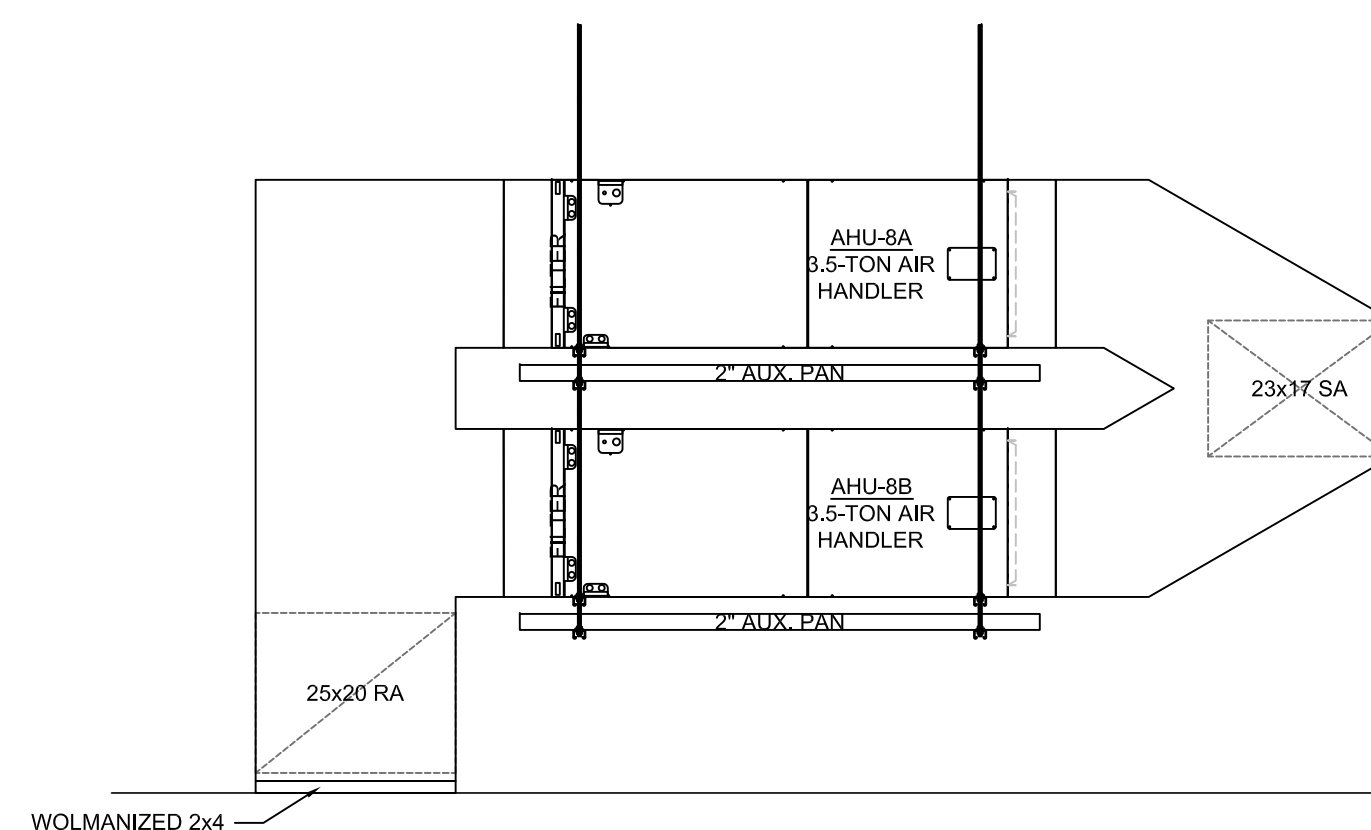


FRONT VIEW

AIR HANDLER 3A & 3B DETAIL

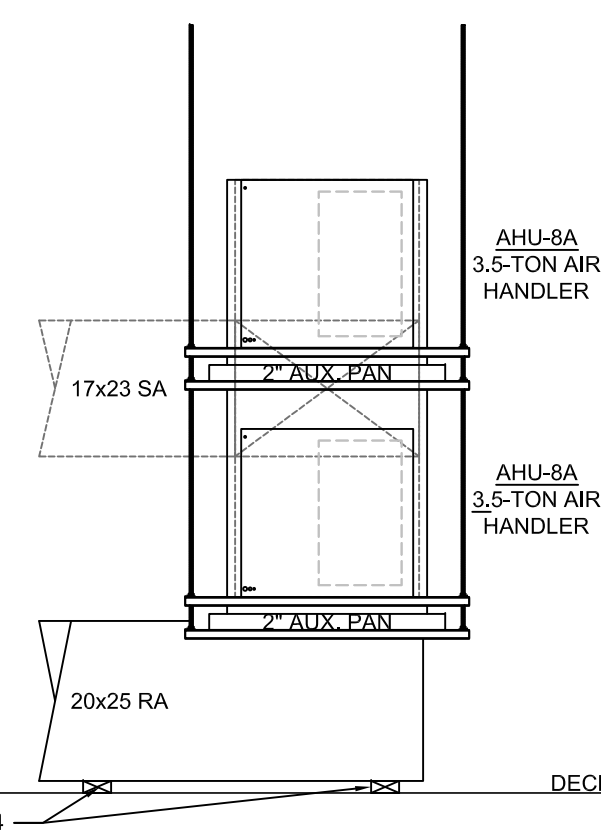


PROFILE VIEW



FRONT VIEW

AIR HANDLER 8A & 8B DETAIL



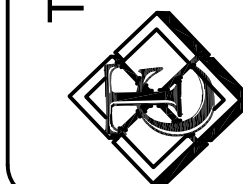
PROFILE VIEW

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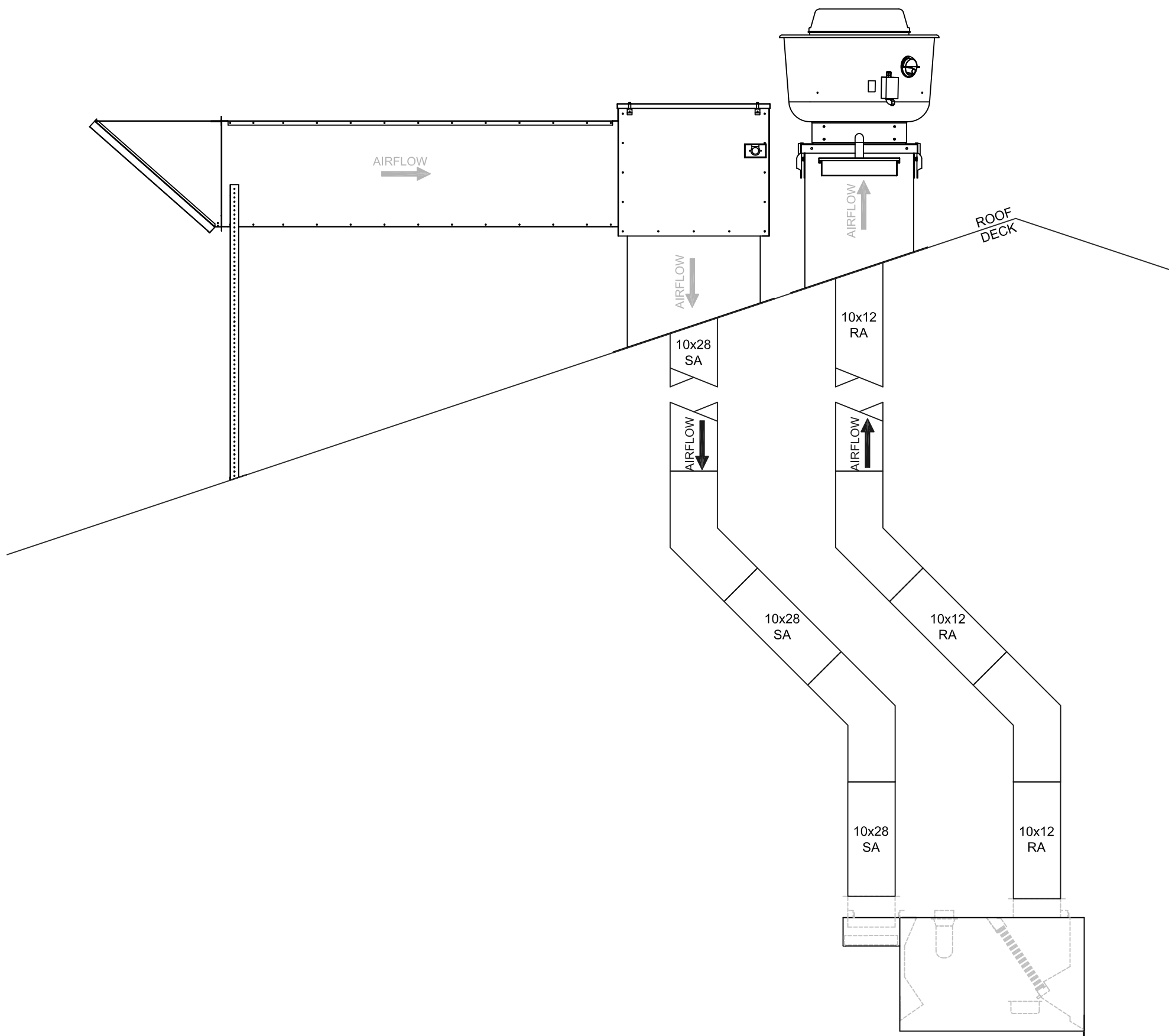
SANCTUARY AIR HANDLER DETAILS

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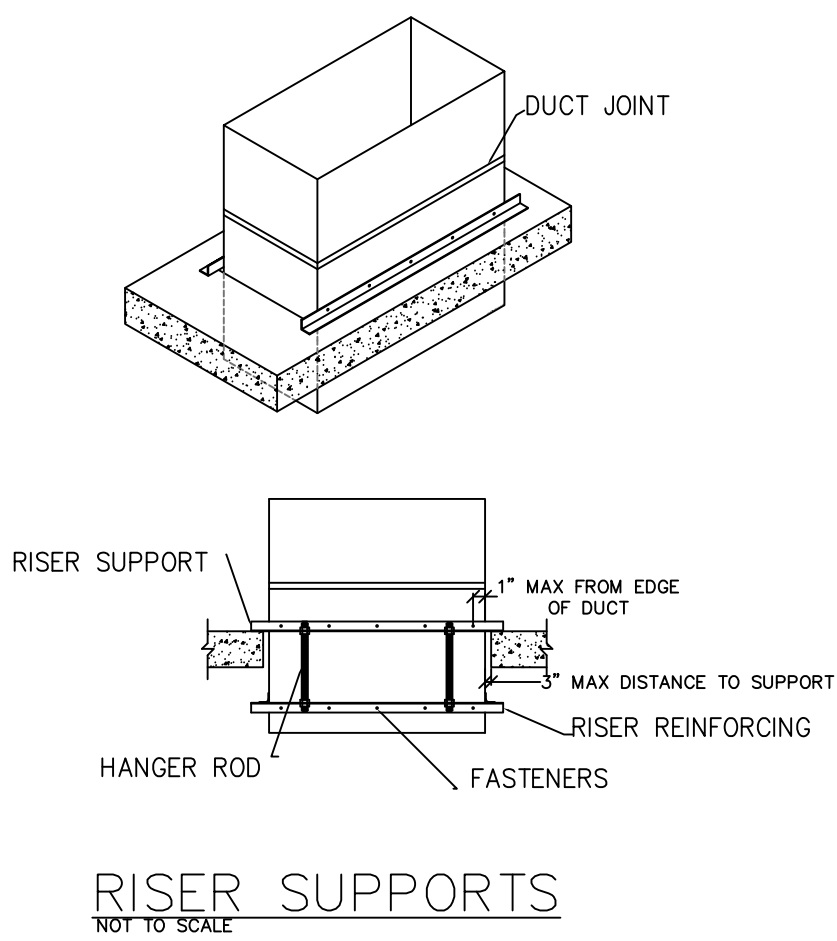
SHEET NUMBER

M2.1

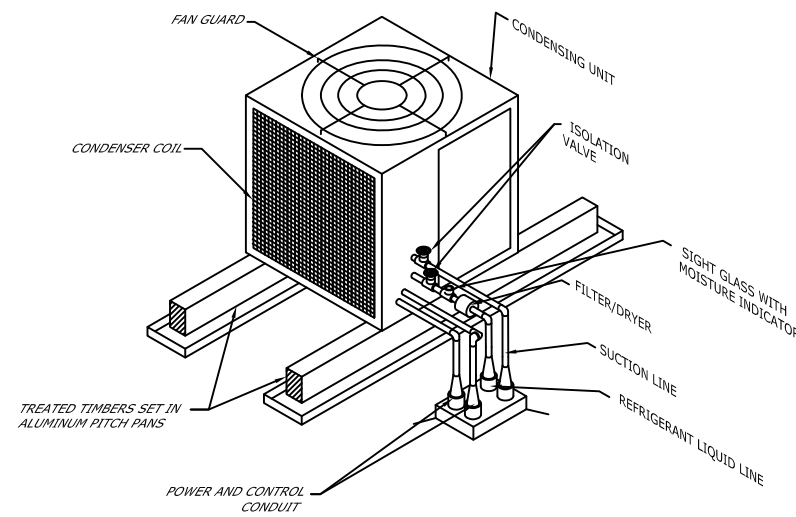
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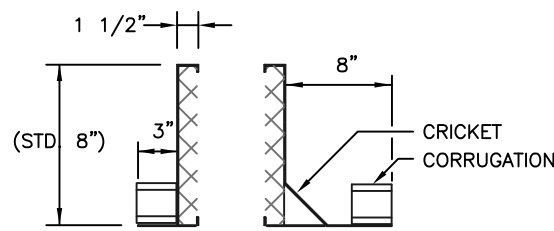
KITCHEN VENT HOOD FRESH AIR INTAKE AND EXHAUST



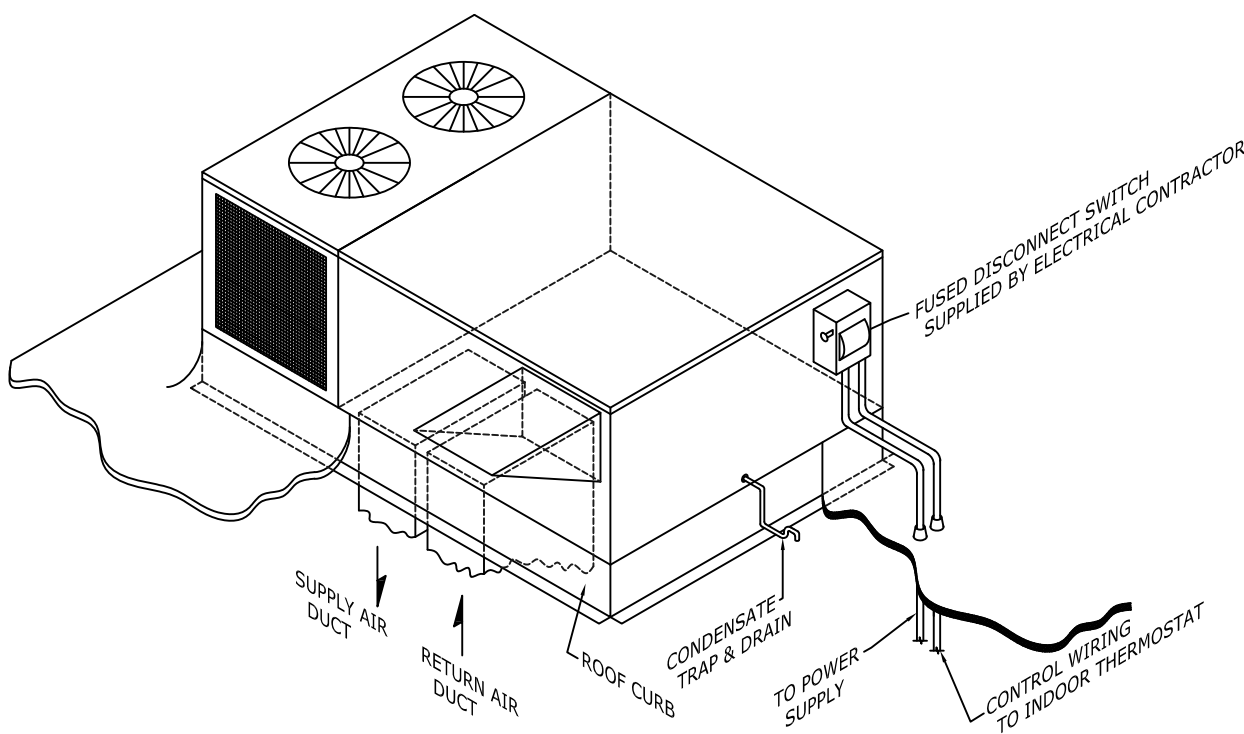
RISER SUPPORTS
NOT TO SCALE



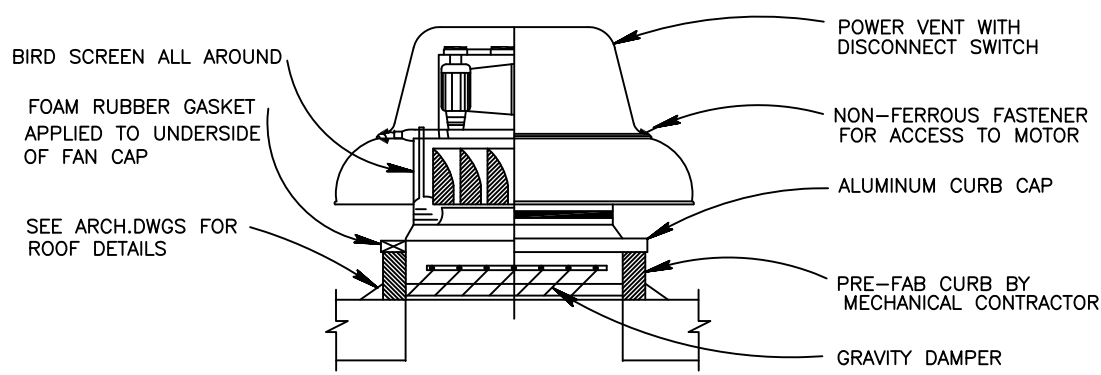
CONDENSING UNIT MOUNTED
ON A LOW SLOPE ROOF
NOT TO SCALE



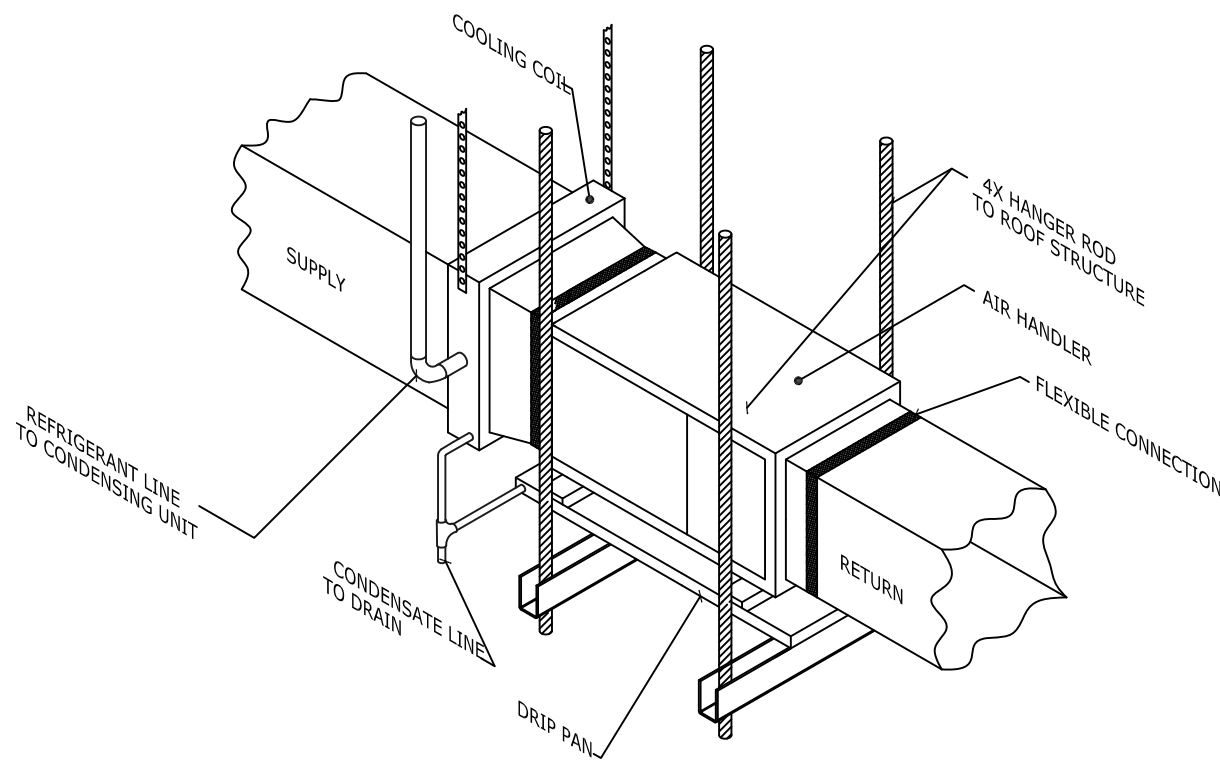
TYPICAL ROOF CURB DETAIL
NOT TO SCALE



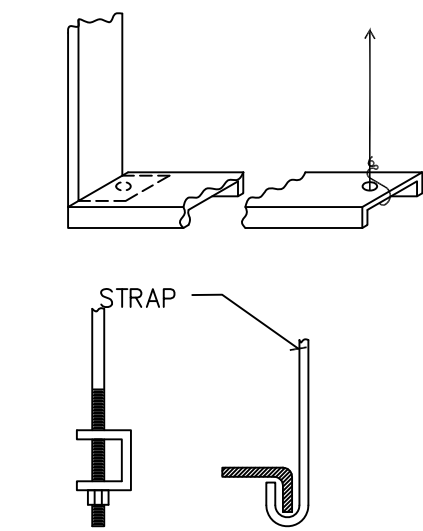
TYPICAL ROOF TOP UNIT DETAIL
NOT TO SCALE



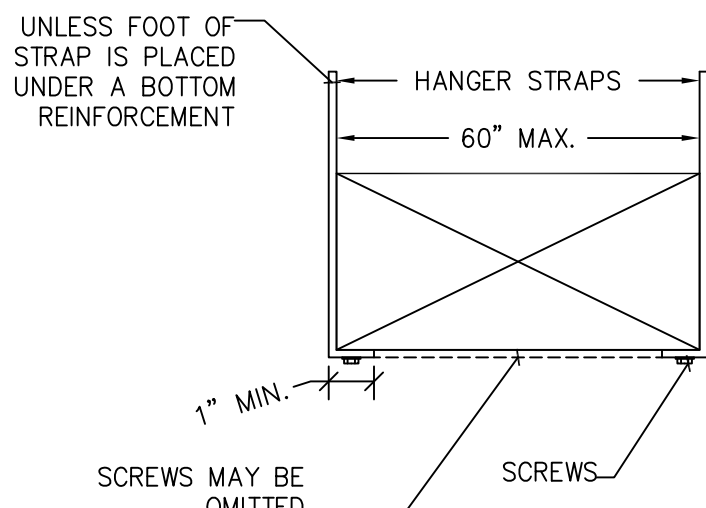
ROOF MOUNTED EXHAUST FAN DETAIL
N.T.S.



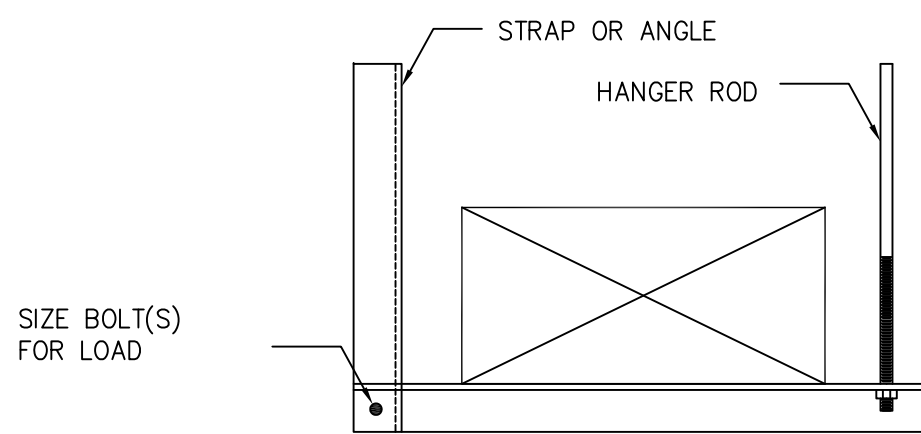
TYPICAL HORIZONTAL AIR HANDLER
WITH DRAIN PAN DETAIL
NOT TO SCALE



HANGER DETAIL
NOT TO SCALE

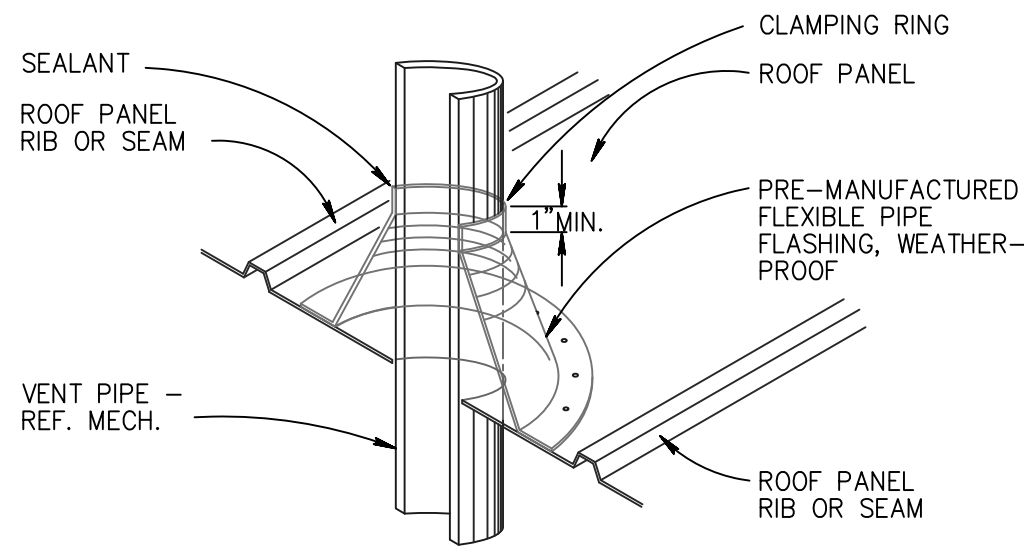


STRAP HANGERS

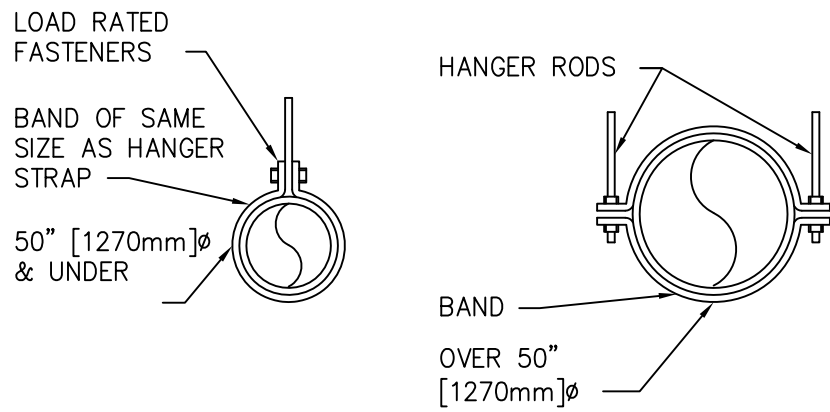


TRAPEZE HANGERS

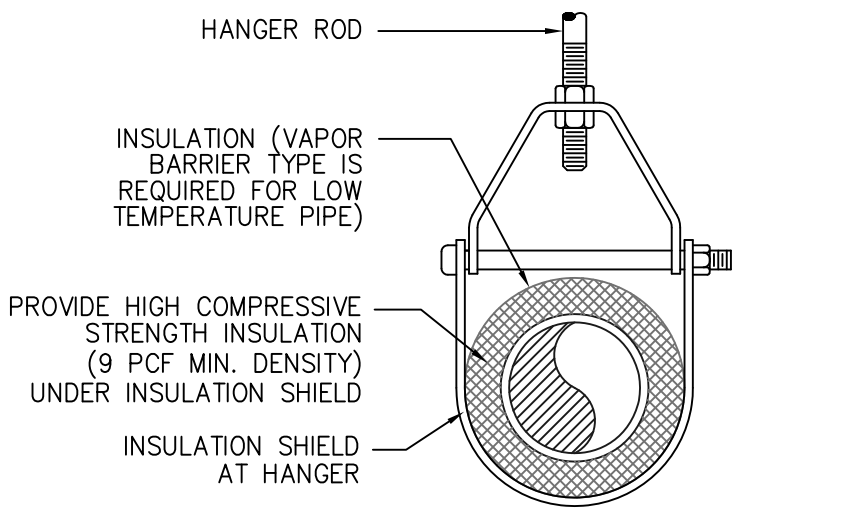
TYPICAL SQUARE DUCT HANGERS
NOT TO SCALE



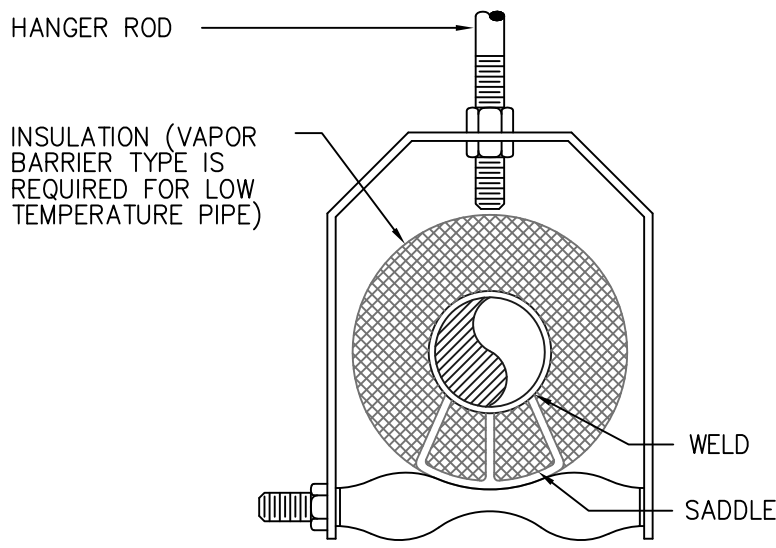
ROOF VENT DETAIL
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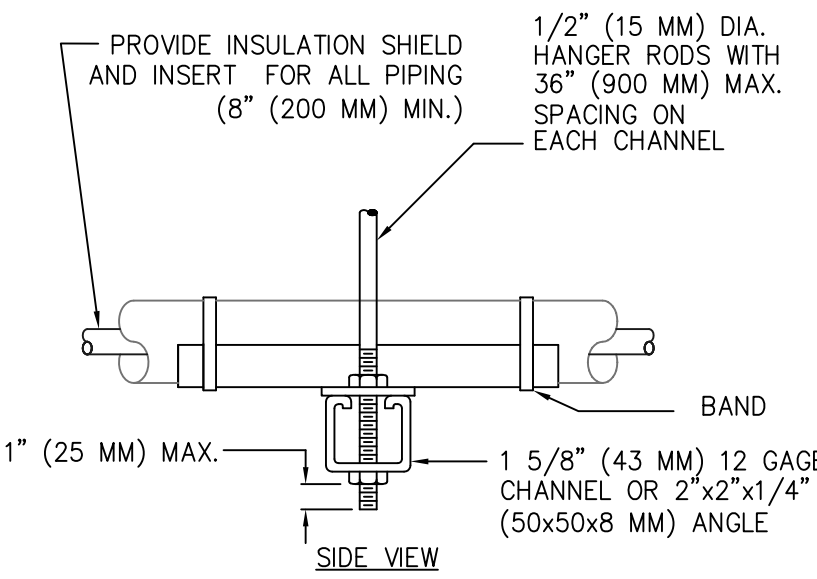
TYPICAL ROUND DUCT HANGERS
NOT TO SCALE



ADJUSTABLE CLEVIS HANGER TYPE 1



ADJUSTABLE CLEVIS HANGER TYPE 43



TRAPEZE HANGER FOR UP
TO 1000 LB. (453 KG) UNIFORM LOAD

TYPICAL PIPE HANGERS
NOT TO SCALE

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SHEET NUMBER
M2.2
JULY 28, 2010

VENT HOOD AND GENERAL DETAILS

ROOF TOP PACKAGE UNIT SCHEDULE																			
UNIT DATA								COOLING DATA				HEATING DATA				ELECTRIC DATA			
MARK	MANUFACTURER	MODEL	NOMINAL TONS	NOMINAL CFM	O.A. CFM	EXT. S.P. (L.W.G.)	H.P.	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	ENTERING AIR DBWB (°F)	LEAVING AIR DBWB (°F)	FUEL TYPE	INPUT (KW)	ENTERING AIR DB (°F)	LEAVING AIR DB (°F)	VOLTZ-PH-HZ	MCA	MOCP	REMARKS
RTU-1	YORK	XP12020N4AAA4	10	6000	800	0.6	3	116.30	60.75	80°/67°	58.1°/57.9°	ELECTRIC	24	60°	78.9°	460-3-60	64.60	70	DDC CONTROL SYSTEM; PROVIDE ECONOMIZER PACKAGE
RTU-2	YORK	ZJ24036N4AAA1	20	6000	1200	0.5	7.5	253.3	190.2	80°/67°	58.1°/57.9°	ELECTRIC	36	60°	74.2°	460-3-60	63.10	70	
RTU-4	YORK	XP078020N4AAA4	6.5	2600	390	0.6	2	76.00	58.00	80°/67°	58.4°/57.8°	ELECTRIC	18	60°	81.9°	460-3-60	47.20	50	
RTU-5	YORK	XP150020N4AAA4	12.5	5000	750	0.6	5	150.00	113.50	80°/67°	59.1°/57.5°	ELECTRIC	24	60°	75.1°	460-3-60	74.80	80	
RTU-6	YORK	ZF24036N4AAA1	15	6000	1200	0.5	7.5	279.2	196.3	80°/67°	57.4°/56.9°	ELECTRIC	36	60°	74.2°	460-3-60	66.60	70	
RTU-8	YORK	XP036020N4AAA1	3	1200	180	0.6	1.5	34.34	25.72	80°/67°	60.2°/58.1°	ELECTRIC	10	60°	86.5°	460-3-60	26.60	30	DDC CONTROL SYSTEM; PROVIDE ECONOMIZER PACKAGE; ALTERNATE 1
RTU-10	YORK	XP048020N4AAA1	4	1600	240	0.6	1.5	46.12	34.98	80°/67°	59.8°/57.9°	ELECTRIC	15	60°	86.9°	460-3-60	34.70	35	
RTU-11	YORK	XP090020N4AAA4	7.5	3000	450	0.6	3	90.85	67.05	80°/67°	59.4°/57.5°	ELECTRIC	18	60°	79°	460-3-60	49.50	50	
RTU-12	YORK	ZF24036N4AAA1	15	6000	1200	0.5	7.5	279.2	196.3	80°/67°	57.4°/56.9°	ELECTRIC	36	60°	74.2°	460-3-60	66.60	70	

SPLIT SYSTEM AIR HANDLER UNITS																					
UNIT DATA					COOLING DATA								HEATING DATA				ELECTRIC DATA				REMARKS
MARK	MANUFACTURER	MODEL	TYPE	APPLICATION	NOMINAL TONS	NOMINAL CFM	O.A. CFM	EXT. S.P. (L.W.G.)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	ENTERING AIR DBWB (°F)	LEAVING AIR DBWB (°F)	FUEL TYPE	INPUT (kW)	ENTERING AIR DB (°F)	LEAVING AIR DB (°F)	VOLTZ-PH-HZ	MCA	MOCP		
AHU-1, 4, 6	YORK	MA128N41	AIR HANDLER UNIT	UPFLOW	3	1200	180	0.47	37.32	26.14	80°/67°	59.9°/57.1°	ELECTRIC	8.80	60°	83.2°	460-3-60	17.4	20	DDC CONTROL SYSTEM	
		MC4383XH1	CONDENSER COIL																		
AHU-2AAB	YORK	MA128N41	AIR HANDLER UNIT	HORIZONTAL LEFT	3	1200	180	0.47	37.32	26.14	80°/67°	59.9°/57.1°	ELECTRIC	8.80	60°	83.2°	460-3-60	17.4	20		
		MC4383XH1	CONDENSER COIL																		
AHU-3AAB	YORK	MA16CN41	AIR HANDLER UNIT	HORIZONTAL LEFT	4	1600	240	0.44	46.60	35.05	80°/67°	59.8°/57.9°	ELECTRIC	13.20	60°	86.2°	460-3-60	24.9	25		
		MC4383XH1	CONDENSER COIL																		
AHU-7	YORK	MA16CN41	AIR HANDLER UNIT	UPFLOW	4	1600	240	0.44	46.60	35.05	80°/67°	59.8°/57.9°	ELECTRIC	13.20	60°	86.2°	460-3-60	24.9	25		
		MC4383XH1	CONDENSER COIL																		
AHU-5	YORK	MA20DN41	AIR HANDLER UNIT	HORIZONTAL LEFT	5	2000	300	0.57	54.80	43.30	80°/67°	60.0°/58.4°	ELECTRIC	13.20	60°	80.9°	460-3-60	26.3	30		
		MC4383XH1	CONDENSER COIL																		
AHU-8AAB	YORK	MA16CN41	AIR HANDLER UNIT	HORIZONTAL RIGHT	3.5	1400	210	0.60	40.50	31.10	80°/67°	59.5°/58.0°	ELECTRIC	8.80	60°	79.9°	460-3-60	17.8	25		
		MC4383XH1	CONDENSER COIL																		
AHU-9, 10AAB, 12AAB	YORK	MA128N41	AIR HANDLER UNIT	UPFLOW	3	1200	180	0.47	35.7	25.54	80°/67°	60.3°/57.7°	ELECTRIC	8.80	60°	83.2°	460-3-60	17.4	20		
		MC4383XH1	CONDENSER COIL																		
AHU-11	YORK	MA128N41	AIR HANDLER UNIT	UPFLOW	2.5	1000	150	0.46	27.7	21.20	80°/67°	60.4°/58.3°	ELECTRIC	8.80	60°	87.9°	460-3-60	17.4	20		
		FC43ABGNJ	CONDENSER COIL																		

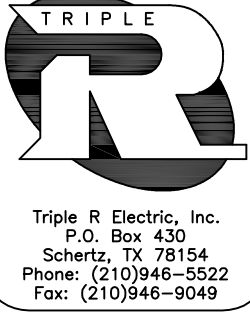
HEAT PUMP/CONDENSING UNITS																				
UNIT DATA				COOLING DATA										ELECTRIC DATA						REMARKS
MARK	MANUFACTURER	MODEL	TYPE	APPLICATION	NOMINAL TONS	NOMINAL CFM	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	INPUT (KW)	AMBIENT AIR DB (°F)	LEAVING AIR DB (°F)	VOLTZ-PH-HZ	MCA	MOCP						
CU-1, 2AAB, 4, 6	YORK	THGD3644S1	CONDENSING UNIT	N/A	3	1200	37.32	26.14	3.03	47°	90.1°	460-3-60	6.4	15						
CU-2AAB, 7	YORK	THGD4844S1	CONDENSING UNIT	N/A	4	1600	46.60	35.05	3.52	47°	89.7°	460-3-60	11.10	15						
CU-5	YORK	THGD0244S1	CONDENSING UNIT	N/A	5	2000	54.80	43.30	4.30	47°	88.9°	460-3-60	12.80	20						
CU-8AAB	YORK	THGD4244S1	CONDENSING UNIT	N/A	3.5	1400	40.50	31.10	3.30	47°	88.4°	460-3-60	8.70	15						
CU-9, 10AAB, 12AAB	YORK	YHJD3644S3	CONDENSING UNIT	N/A	3	1200	35.7	25.54	3.03	47°	90.1°	460-3-60	6.40	15						
CU-11	YORK	YHJD3644S3	CONDENSING UNIT	N/A	2.5	1000	27.7	21.20	2.30	47°	88.3°	460-3-60	6.00	15						

DUCTLESS SPLIT SYSTEM UNIT (CRAC)										REMARKS
MARK	MANUFACTURER	MODEL	TYPE	APPLICATION	NOMINAL TONS	NOMINAL CFM	O.A. CFM	EXT. S.P. (L.W.G.)	H.P.	
DAH-1	FRIEDRICH	M90CF	CRAC		295	9700	115-160	12		FED FROM CONDENSING UNIT WITH 3-#12 & 1-#12 COND.
DCU-1	FRIEDRICH	EC-400	CONDENSATE PUMP					7.60	20	SINGLE POINT CONNECTION FOR CONDENSING UNIT AND AHU

FRESH AIR DEVICES						
MARK	MANUFACTURER	MODEL	CATALOG NUMBER	SIZE	MOUNT	ACCESSORIES
FA-1	COOK	PR	16 PR	-	ROOF	BIRDSCREEN
FA-2	COOK	PR	12 PR	-	ROOF	BIRDSCREEN
FA-3	METALARE	DAL	QAL-2C	12" x 12"	WALL	BIRDSCREEN

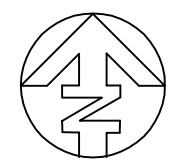
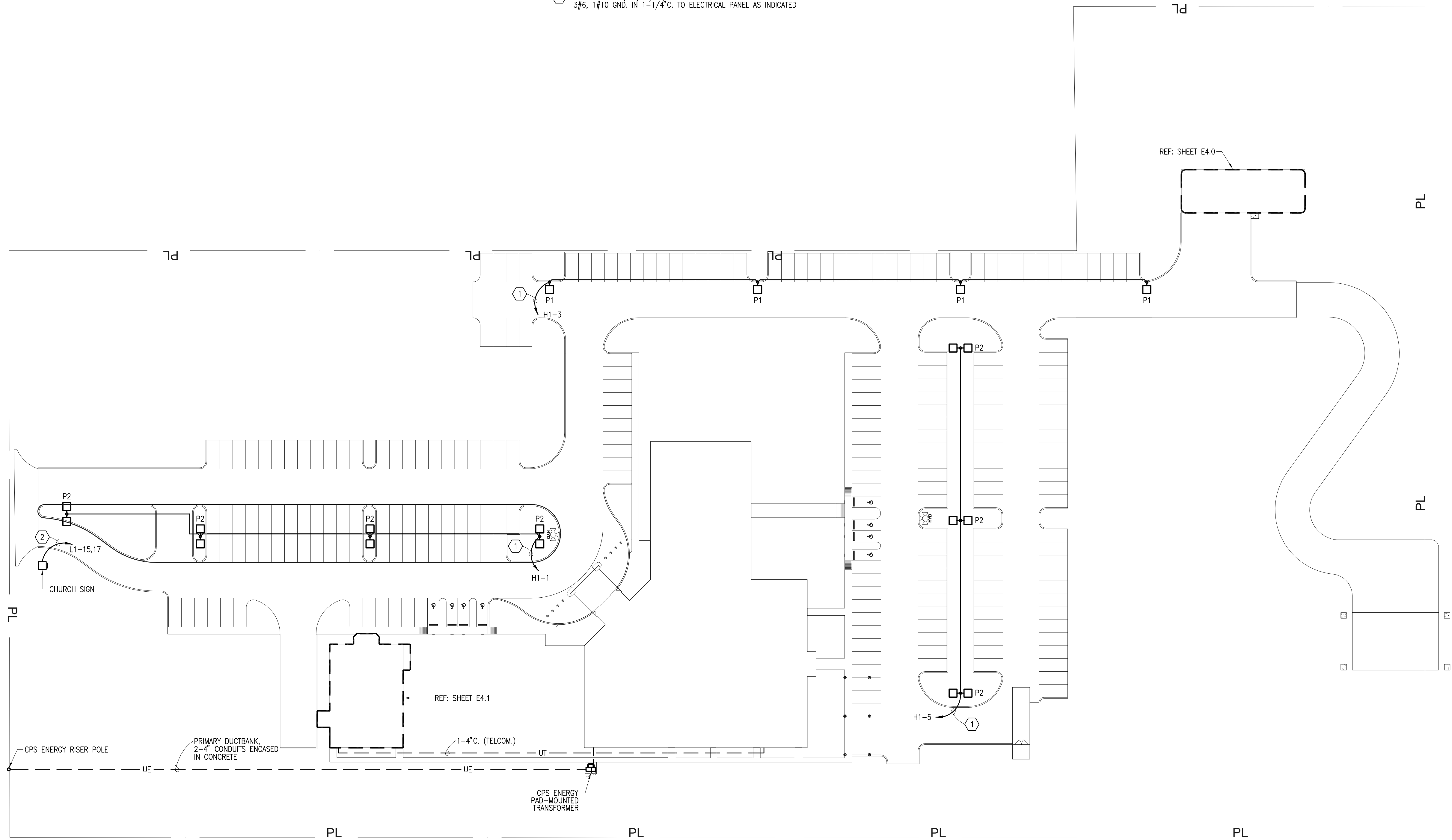
AIR DISTRIBUTION DEVICES																	
<div>NOTES:</div> <div>1. SYMBOL KEY - FIRST LETTER: S - SUPPLY R - RETURN E-EXHAUST SECOND LETTER: D - DIFFUSER G - GRILLE 2. CATALOG NUMBERS REFER TO TITUS DEVICES (UNLESS INDICATED OTHERWISE). 3. MANUAL DAMPERS SHALL BE OPERABLE FROM FACE. "A" - OPPOSED BLADE "B" - RADIAL OPPOSED BLADE "C" - BUTTERFLY</div> <div>4. FINISH - "A" - METAL/ESCENT ALUM. BAKED ENAMEL "B" - FACTORY "DURA-BIDGE" "C" - BAKED OFF WHITE ENAMEL FINISH "D" - STANDARD OFF WHITE FINISH PAINTED TO MATCH CEILING OR WALLS 5. BORDER STYLE - "A" - SURFACE MOUNTED "B" - LAY-IN MOUNTED "C" - LAY-IN PANEL, PROVIDE WITH FRAME FOR PLASTER OR DRYWALL, CEILING OR WALL MOUNTING</div>																	
MARK	CATALOG MOOLE NO.	SIZE		MOUNTING				ACCESSORIES			MATERIAL			FINISH	BORDER STYLE	REMARKS	
		MOD.	NECK	SIDEWALL	CEILING	DUCT	FLOOR	DPR	EQUAL GRID	FIRE DPR	STEEL	ALUM.	PLASTIC				
SD-1	250	14" X 14"	9"Ø, 10"Ø, 12"Ø					A			*			C	A		
SD-2	250	10" X 10"	7"Ø, 8"Ø, 9"Ø		*			A			*			C	A		
SD-3	250	8" X 8"	6"Ø, 7"Ø		*			A			*			C	A		
SD-4	250	6" X 6"			*			A			*			C	A		
SD-5	250	6" X 4"	4"Ø, 5"Ø		*			A			*			C	A		
SD-6	250	10" X 6"	6"Ø, 8"Ø		*			A			*			C	A		
SD-7	250	14" X 6"	8"Ø		*			A			*			C	A		
SD-8	250	18" X 6"	10"Ø		*			A			*			C	A		
SD-9	TMS	24" X 24"	6"Ø, 8"Ø, 10"Ø, 12"Ø		*			B	B		*			C	B		
SD-10	250	12" X 12"	10"Ø		*			A			*			C	A		
RG-1	350RL	30" X 18"	VARIES		*	*					*			C	A		
RG-2	350RL	18" X 18"	12"Ø, 14"Ø, 16"Ø		*	*					*			C	A		
RG-3	350RL	14" X 14"	10"Ø, 12"Ø		*						*			C	A		
RG-4	350RL	12" X 12"	7"Ø, 8"Ø, 9"Ø		*						*			C	A		
RG-5	350RL	10" X 16"	10"Ø		*						*			C	A		
RG-6	350RL	24" X 24"	VARIES		*	*					*			C	B		
RG-7	350RL	48" X 24"	VARIES		*	*					*			C	B		
RG-8	350RL	20" X 20"	14"Ø		*						*			C	A		
RG-9	350RL	16" X 16"			*	*					*			C	A		
RG-10	350RL	30" X 24"		*							*			C	A		
EG-1	GEMINI	13.25" X 14.75"	6"Ø		*			*			*					MANUFACTURER: COOK	

EXHAUST FANS																			
MARK	MANUFACTURER	MODEL	CATALOG NUMBER	FAN INFORMATION				MOTOR INFORMATION				CONTROLS	DAMPER	CAPS		CURBS			
				C.F.M.	S.P.	R.P.M.	INPUT WATTS	H.P.	R.P.M.	VOLT/PH/Hz	ENCLOSURE			AMPS	ROOF MOUNTED		WALL MOUNTED		
EF-2	COOK	ACE-D	90C150H	200	.375	1193	67	1/8	1550	115/160	ODP-SE		A	BD-12			RC9 16		
EF-3	COOK	GEMINI	GC-124	60	.250	739	47			115/160		.6	A	100 SERIES	RJH100 ROOF JACK	GEMINI WALL CAP			
EF-4	COOK	GEMINI	GC-124	50	.250	699	41			115/160		.6	A	100 SERIES	RJH100 ROOF JACK	GEMINI WALL CAP			
EF-5	BROAN	671	671	70	.250	739	59			120/160	ODP-SE	.8	A	100 SERIES			RC9 16		
EF-6	BROAN	670	670	50	.250	1700	55			120/160	ODP-SE	.8	A	100 SERIES			RC9 16		
CONTROL NOTES: A. WALL MOUNTED FAN SPEED CONTROLLER																			
NOTES: 1. CONTRACTOR SHALL BALANCE SYSTEM 2. PROVIDE WALL/ROOF DISCHARGE ACCESSORIES AS INDICATED PER SPECS																			



KEYED NOTES: (THIS SHEET ONLY)

- 1 EXTEND 2#8, 1#10 GND. IN 1" C. TO ELECTRICAL PANEL AS INDICATED.
2 PROVIDE A 30A/2P/NF/SN/N3R DISCONNECT SWITCH AND EXTEND 3#6, 1#10 GND. IN 1-1/4" C. TO ELECTRICAL PANEL AS INDICATED



1 SITE PLAN - ELECTRICAL
SCALE: 1" = 40'-0"

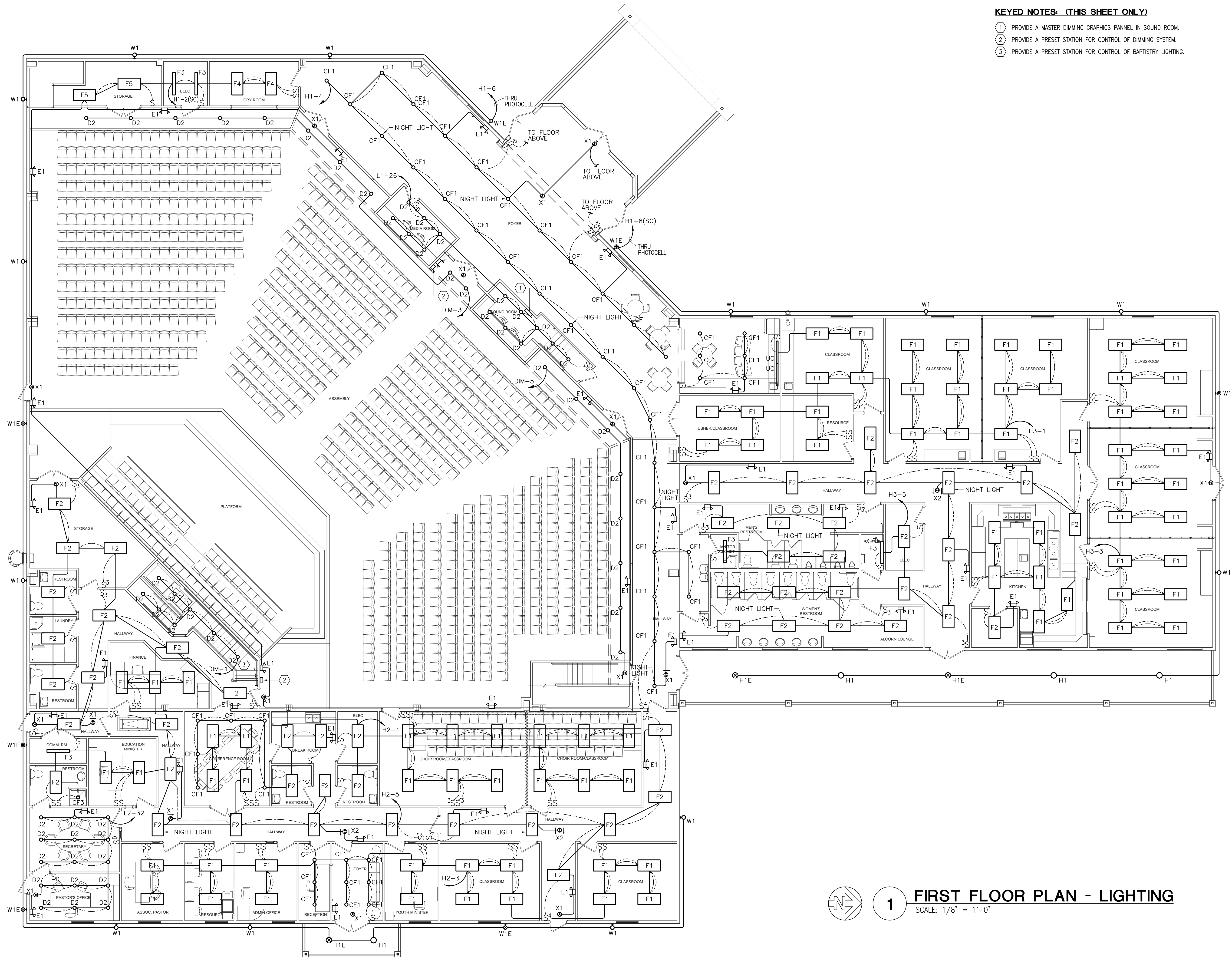
TRUE VISION CHURCH
2826 ACKERMAN RD
SAN ANTONIO, TX 78219

drawn by: RLA
date: 07/09/10

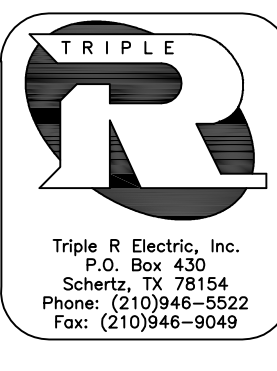
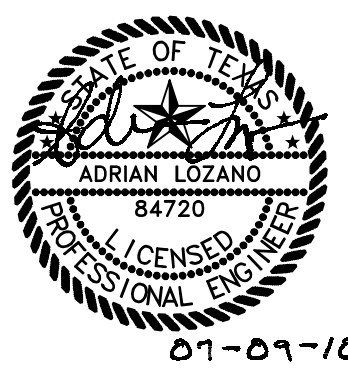
Job No.

SHEET NUMBER:

E1.0



- KEYED NOTES: (THIS SHEET ONLY)**
- ① PROVIDE A MASTER DIMMING GRAPHICS PANNEL IN SOUND ROOM.
 - ② PROVIDE A PRESET STATION FOR CONTROL OF DIMMING SYSTEM.
 - ③ PROVIDE A PRESET STATION FOR CONTROL OF BAPTISTRY LIGHTING.



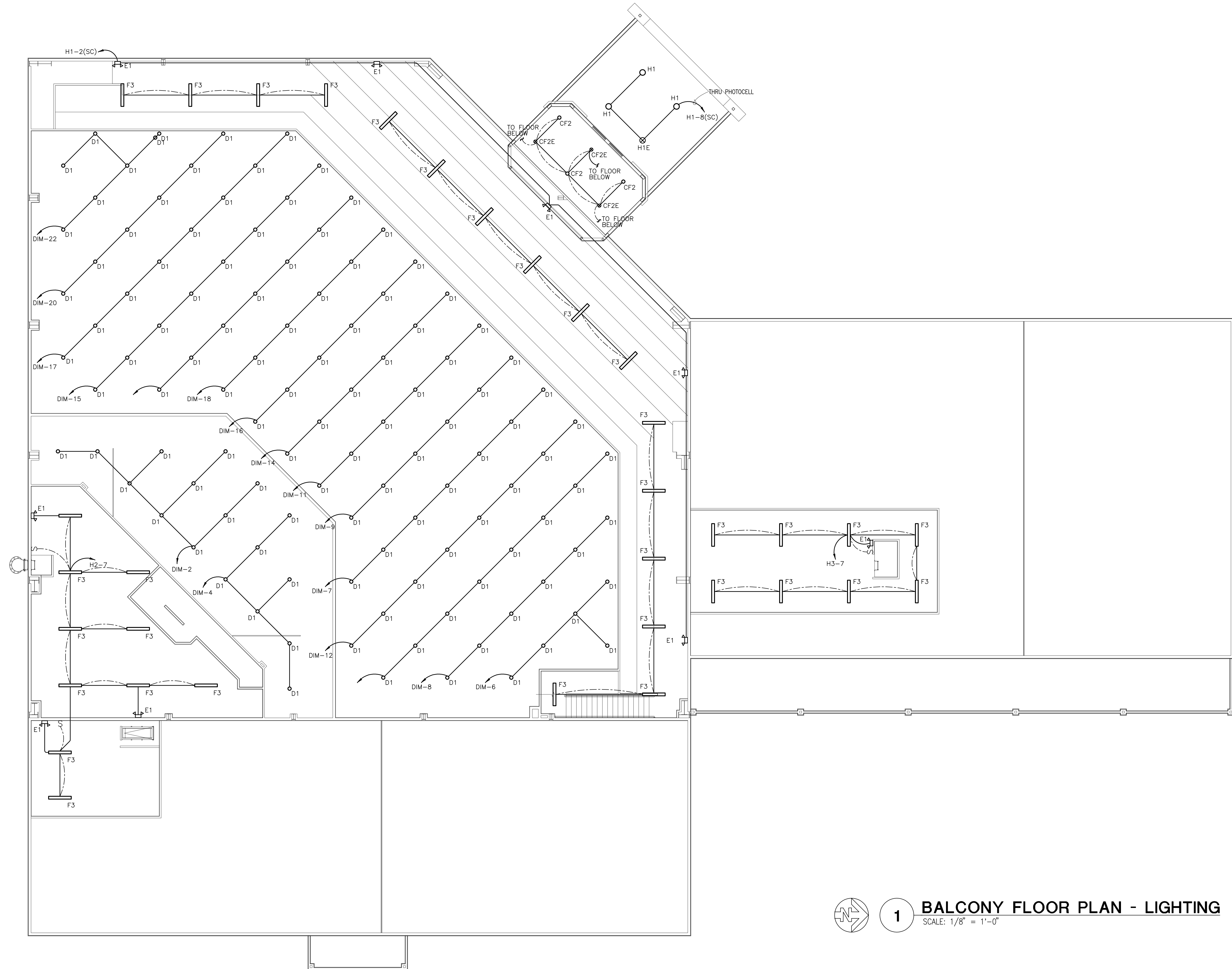
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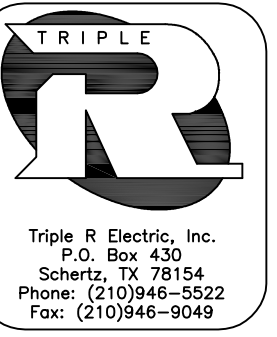
drawn by: RLA
date: 07/09/10
Job No.

SHEET NUMBER:
E1.1

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



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



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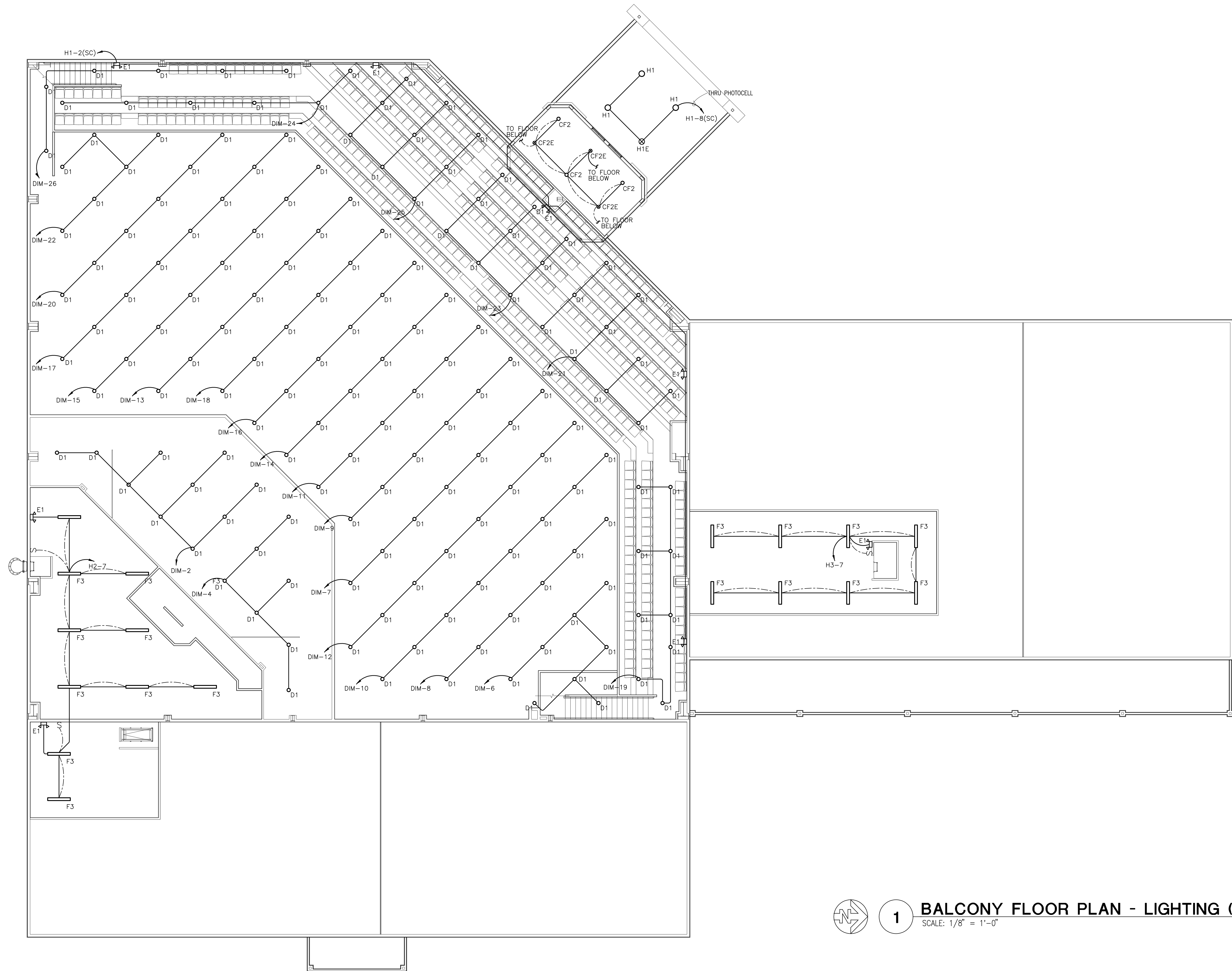
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drawn by: RLA
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Job No.

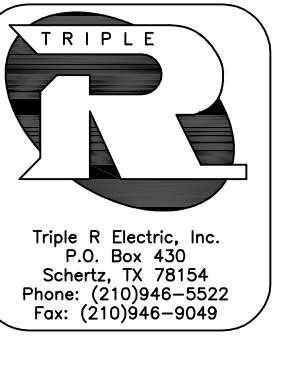
SHEET NUMBER:

E1.2



1

BALCONY FLOOR PLAN - LIGHTING (ALT. 1)
SCALE: 1/8" = 1'-0"



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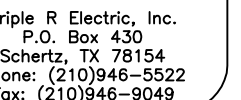
drawn by: RLA date: 07/09/10

Job No.

SHEET NUMBER:

E1.2A

- 1 LIGHT BAR FOR STAGE LIGHTING PROVIDED BY OTHERS.
- 2 PROVIDE A 30A/600V/3P/NF/N1 DISCONNECT SWITCH, AND EXTEND 5#10, 1#10 GND. IN 3/4" C. TO ELECTRICAL PANEL AS INDICATED.
- 3 EXTEND 3#10, 1#10 GND. IN 3/4" C. TO ELECTRICAL PANEL AS INDICATED.
- 4 EXTEND 3#8, 1#10 GND. IN 1" C. TO ELECTRICAL PANEL AS INDICATED.



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Job No. _____

E2.2



1

BALCONY FLOOR PLAN - POWER

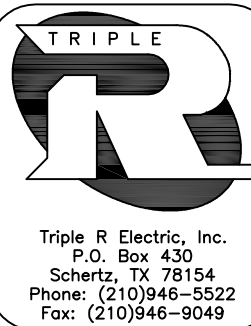
SCALE: $1/8" = 1'-0"$

KEYED NOTES: (THIS SHEET ONLY)

- 1 LIGHT BAR FOR STAGE LIGHTING PROVIDED BY OTHERS.
- 2 PROVIDE A 30A/600V/3P/NF/N1 DISCONNECT SWITCH, AND EXTEND 3#10, 1#10 GND. IN 3/4"C. TO ELECTRICAL PANEL AS INDICATED.
- 3 EXTEND 3#10, 1#10 GND. IN 3/4"C. TO ELECTRICAL PANEL AS INDICATED.
- 4 EXTEND 3#8, 1#10 GND. IN 1"C. TO ELECTRICAL PANEL AS INDICATED.



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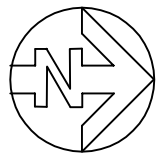
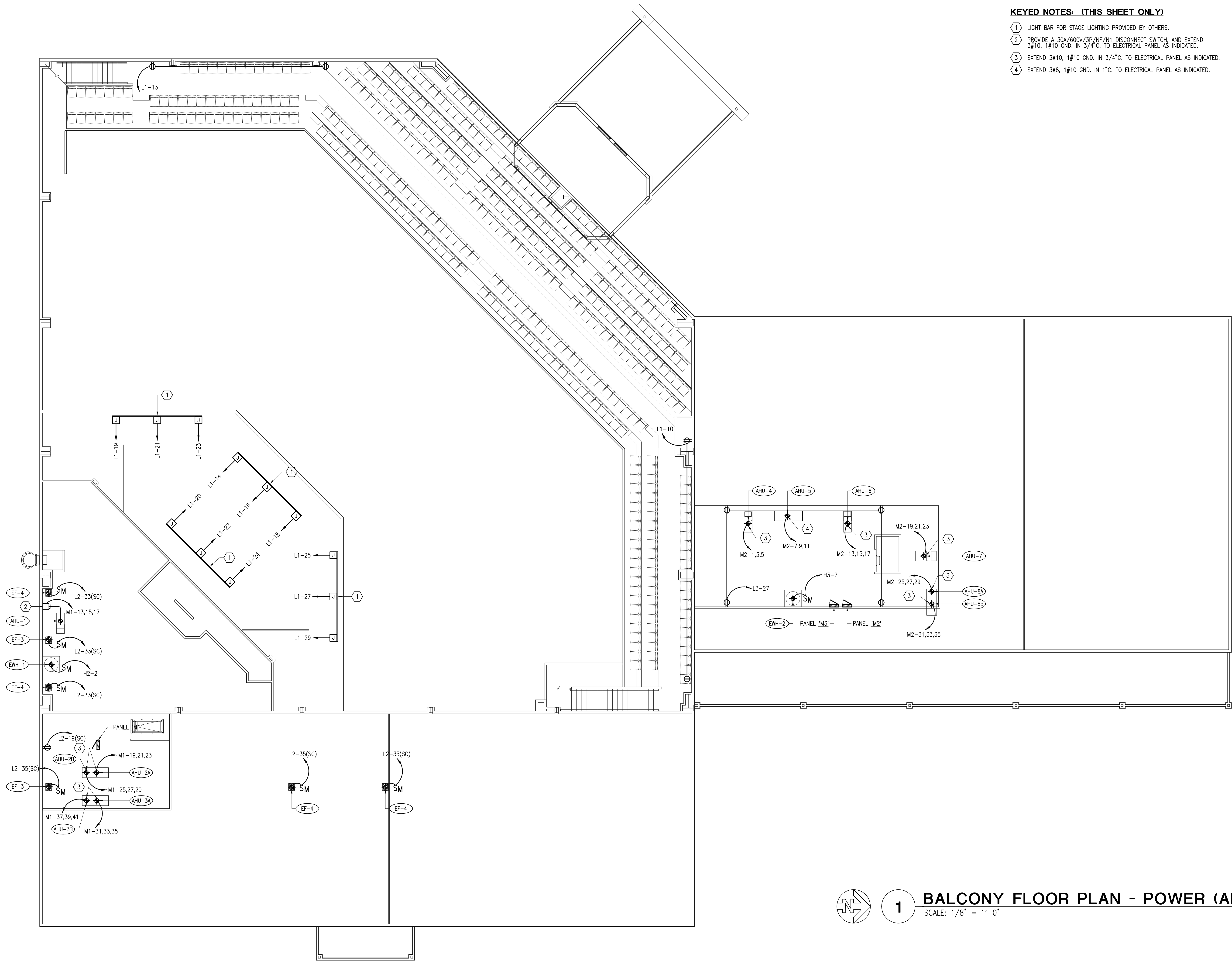
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Job No.

SHEET NUMBER:

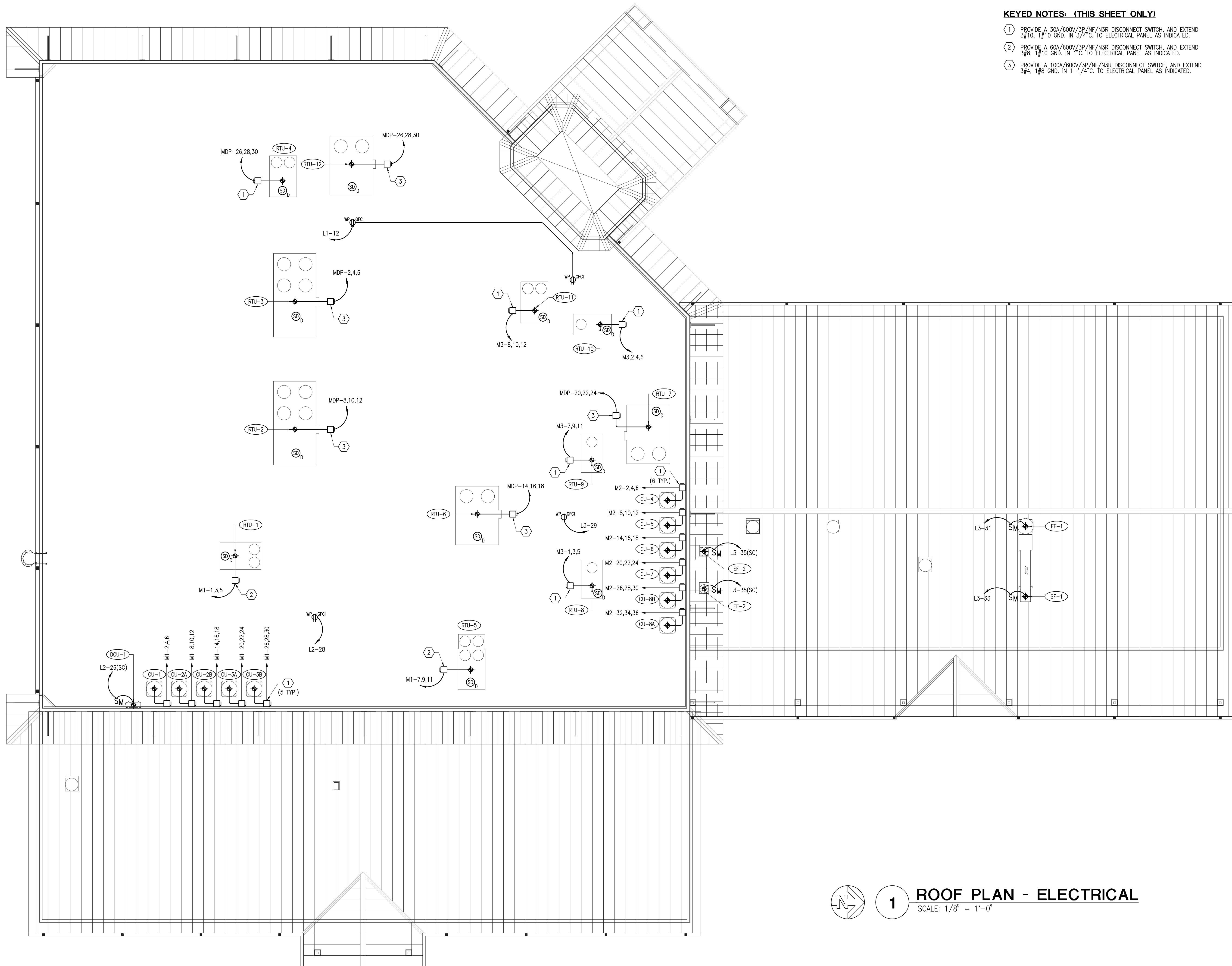
E2.2A



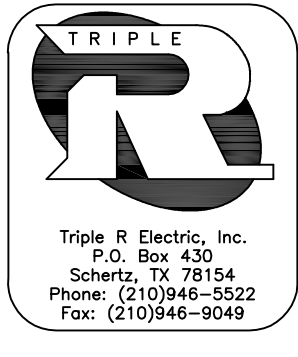
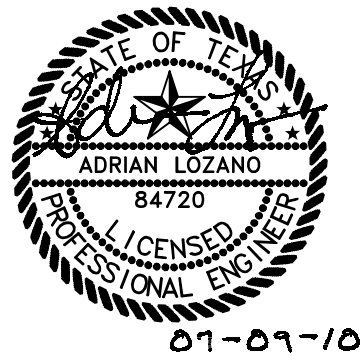
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BALCONY FLOOR PLAN - POWER (ALT. 1)

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



- KEYED NOTES: (THIS SHEET ONLY)**
- 1 PROVIDE A 30A/600V/3P/NF/N3R DISCONNECT SWITCH, AND EXTEND 3#10, 1#10 GND. IN 3/4" C. TO ELECTRICAL PANEL AS INDICATED.
 - 2 PROVIDE A 60A/600V/3P/NF/N3R DISCONNECT SWITCH, AND EXTEND 3#8, 1#10 GND. IN 1" C. TO ELECTRICAL PANEL AS INDICATED.
 - 3 PROVIDE A 100A/600V/3P/NF/N3R DISCONNECT SWITCH, AND EXTEND 5#4, 1#6 GND. IN 1-1/4" C. TO ELECTRICAL PANEL AS INDICATED.



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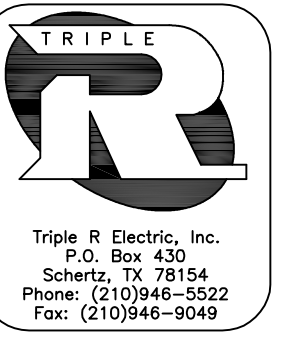
drawn by: RLA
date: 07/09/10
Job No.

SHEET NUMBER:
E2.3

1 ROOF PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

1 AUDIO/VISUAL FLOOR BOXES PROVIDED BY OTHERS.

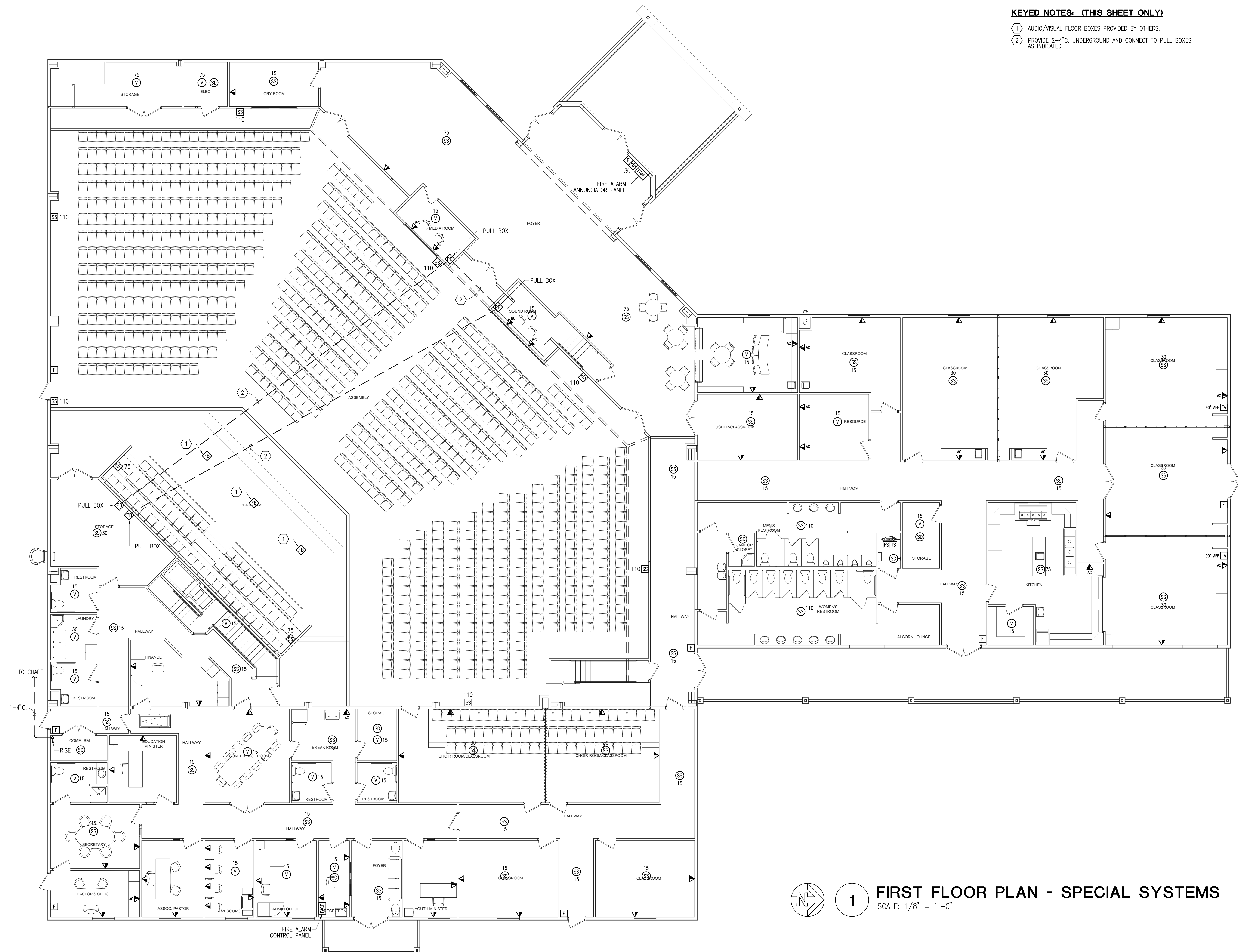
2 PROVIDE 2-4" C. UNDERGROUND AND CONNECT TO PULL BOXES AS INDICATED.



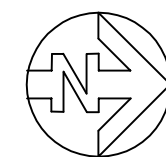
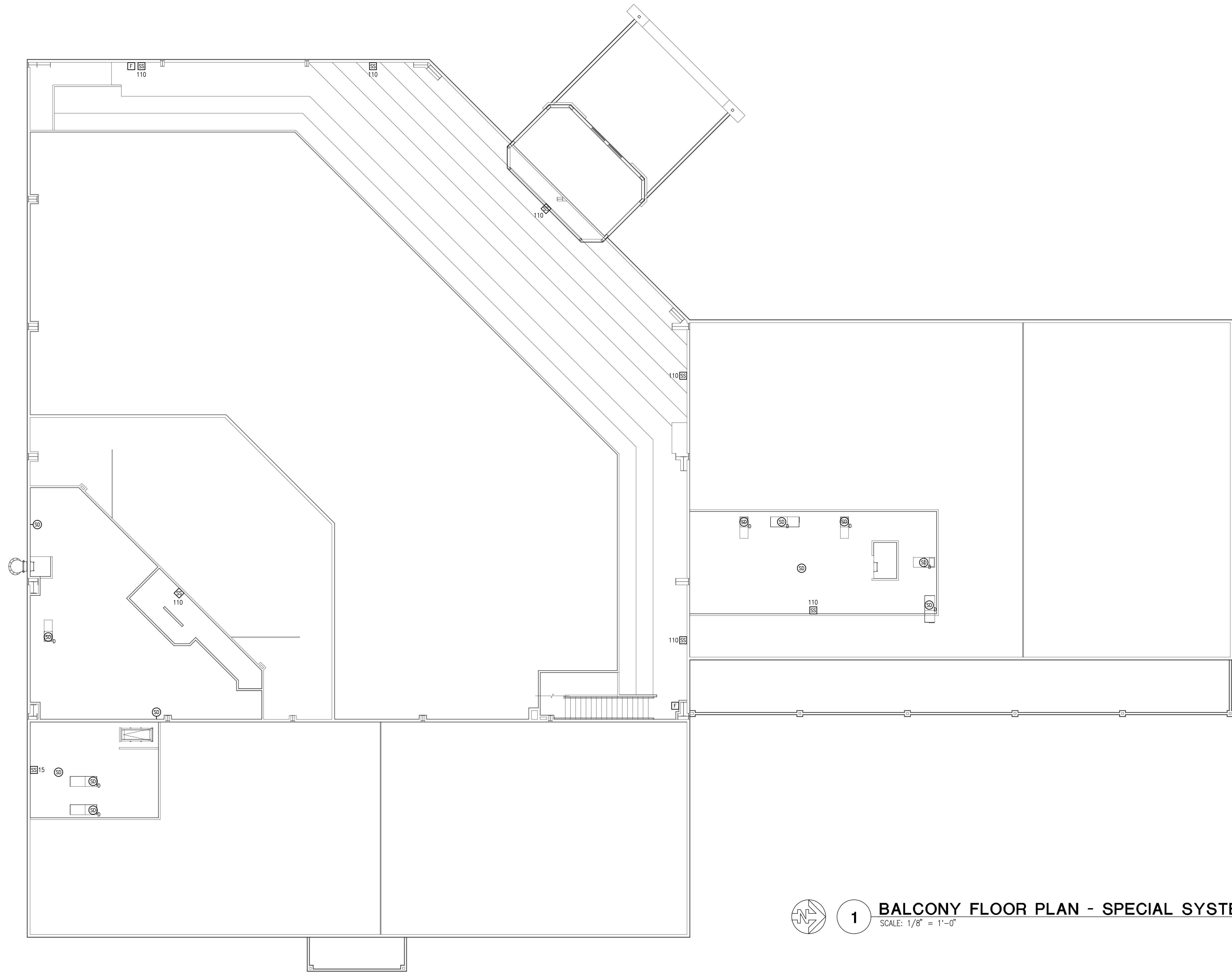
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SAN ANTONIO, TX 78219

Job No. _____

E3.1



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



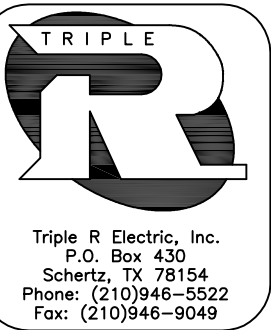
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BALCONY FLOOR PLAN - SPECIAL SYSTEMS

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



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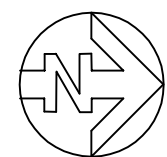
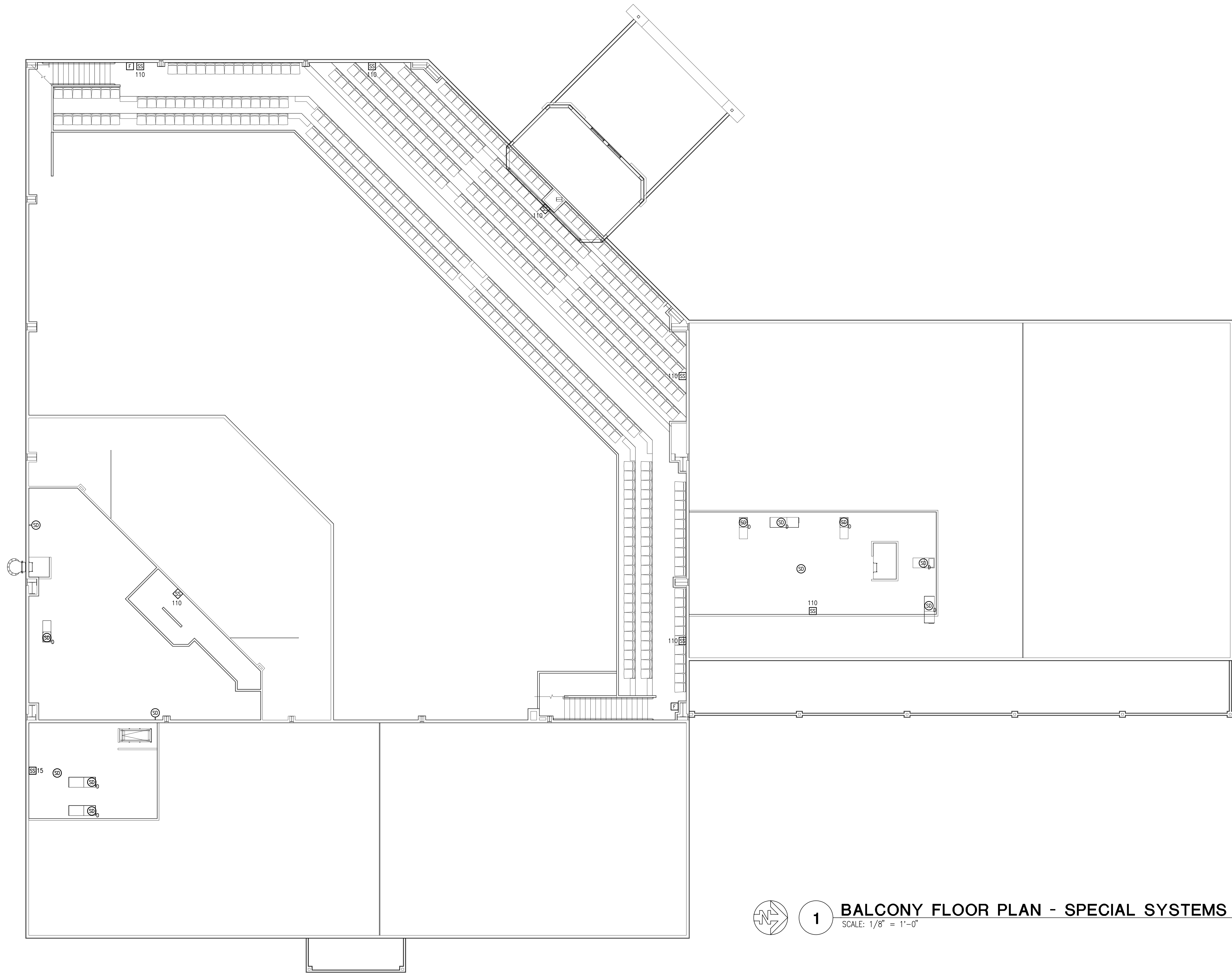
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Job No.

SHEET NUMBER:

E3.2



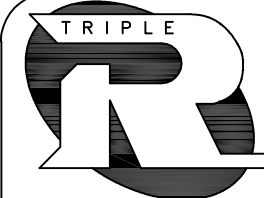
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BALCONY FLOOR PLAN - SPECIAL SYSTEMS (ALT. 1)

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



01-09-10



Triple R Electric, Inc.
P.O. Box 430
Schertz, TX 78154
Phone: (210)946-9522
Fax: (210)946-9049

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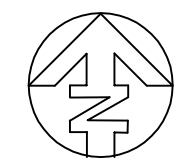
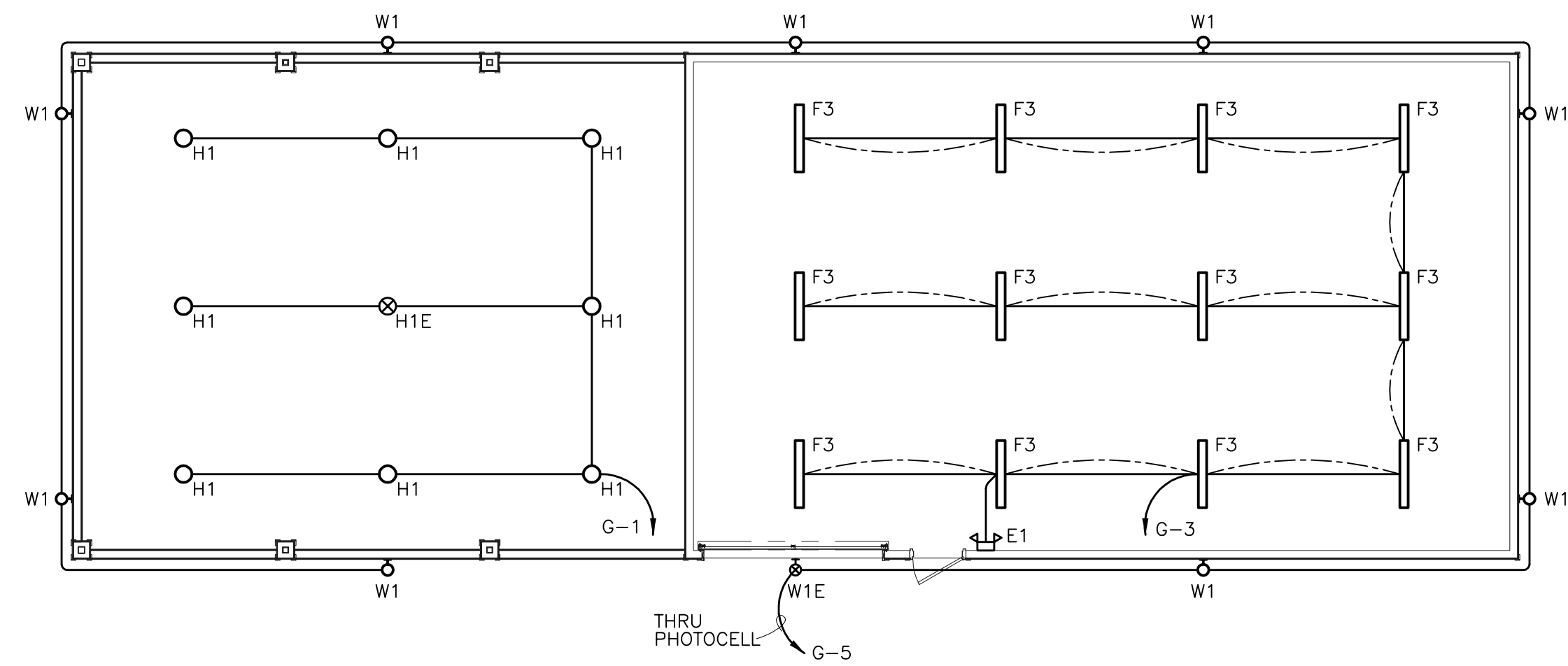
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Job No.

SHEET NUMBER:

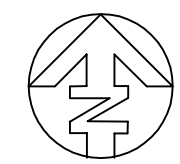
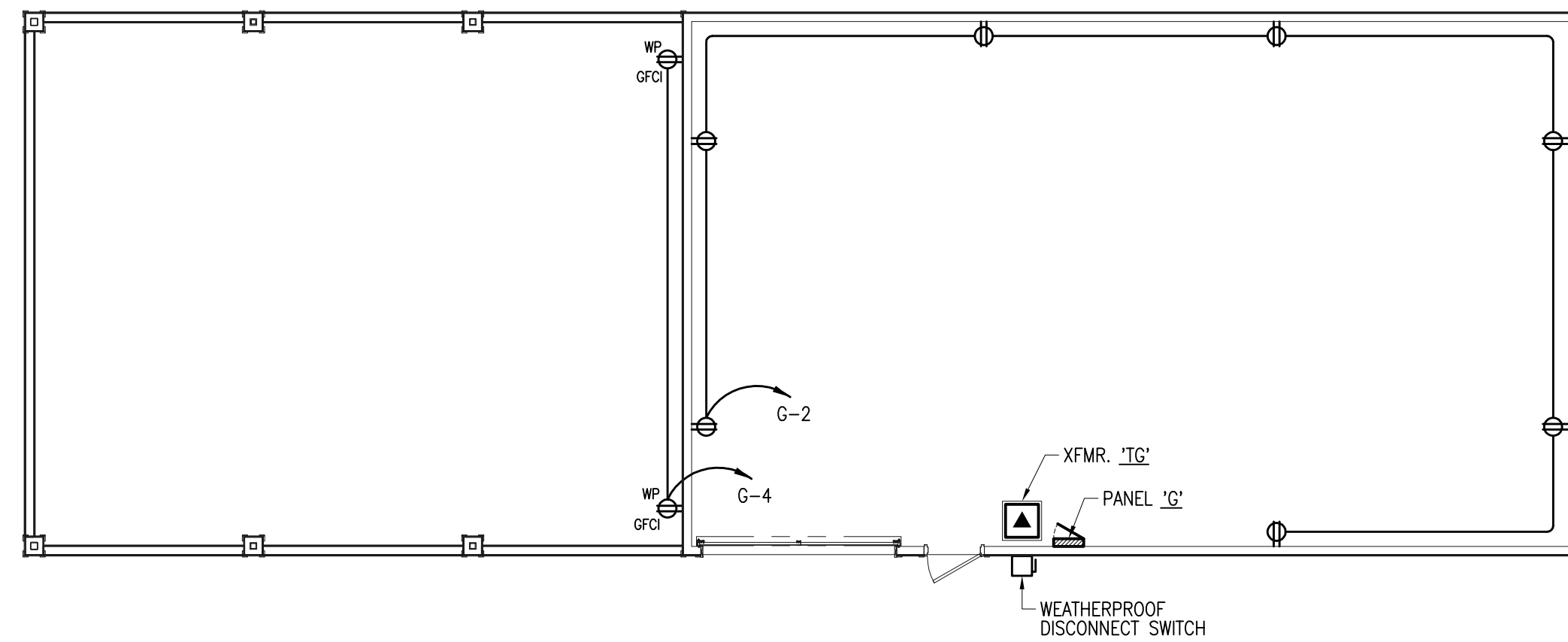
E3.2A



1

GARAGE (ALT. 2) FLOOR PLAN - LIGHTING

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



2

GARAGE (ALT. 2) FLOOR PLAN - POWER

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

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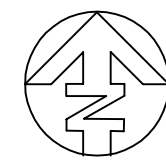
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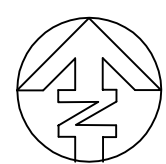
Job No.

SHEET NUMBER:

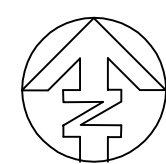
E4.0



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



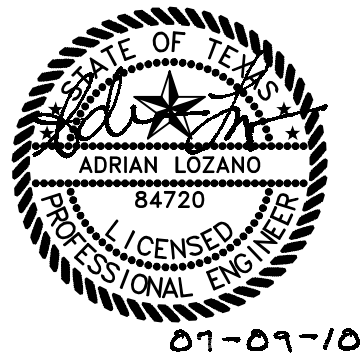
SCALE: 1/8" = 1'-0"



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

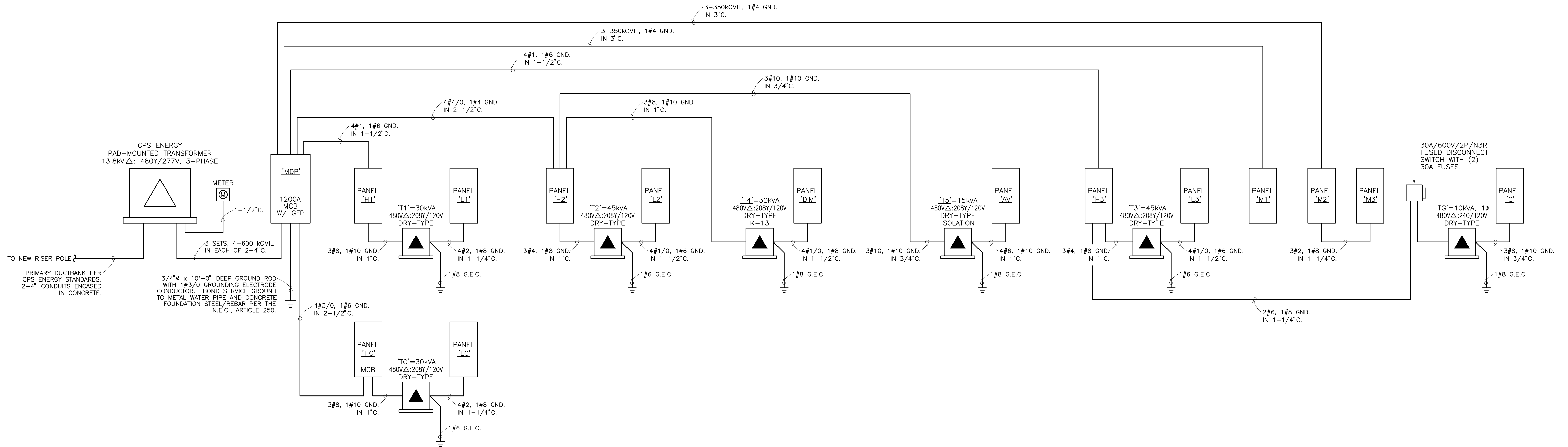
- 01-09-10





01-09-10

ELECTRICAL LOAD ANALYSIS - BINGO BUILDING			
LOAD TYPE	LOAD - kVA	DEMAND FACTOR	DEMAND LOAD - kVA
LIGHTING	68.7	1.25	85.9
RECEPTACLES	39.6	0.63	24.8
A/C COOLING & HEAT PUMPS	712.3	1.00	712.3
ELECTRIC SPACE HEATING (NON-COINCIDENTAL)	348.0	0.00	0.0
MOTORS	4.6	1.00	4.6
OTHER / MISCELLANEOUS	44.0	1.00	44.0
ELECTRIC WATER HEATING	13.5	1.25	16.9
TOTAL LOAD (kVA)			888.4
TOTAL AMPS @ 480/277 VOLT - 3 PHASE			1089
ELECTRICAL SERVICE CAPACITY			1200 AMPS



1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

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TRUE VISION CHURCH
2826 ACKERMAN RD
SAN ANTONIO, TX 78219

drawn by: RLA date: 07/09/10

Job No.

SHEET NUMBER:

E5.0

PANEL:	'MDP'		VOLTAGE:	480/277	1200	AMP	MCB+	SURFACE MOUNT – NEMA 1 42K AIC SYM.			
				3PH, 4W							
					VOLT-AMPS						
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE	
6	1	PANEL 'H1'	125/3	9640	A	15400	70/3	RTU-2	2	3	
6	3	—	—	7440	B	15400	—	—	4	3	
6	5	—	—	8660	C	15400	—	—	6	3	
6	7	PANEL 'H2'	125/3	35535	A	15400	70/3	RTU-3	8	3	
6	9	—	—	26445	B	15400	—	—	10	3	
6	11	—	—	24370	C	15400	—	—	12	3	
6	13	PANEL 'H3'	125/3	21840	A	15400	70/3	RTU-6	14	3	
6	15	—	—	15056	B	15400	—	—	16	3	
6	17	—	—	13979	C	15400	—	—	18	3	
6	19	PANEL 'M1'	300/3	53540	A	15400	70/3	RTU-7	20	3	
6	21	—	—	53540	B	15400	—	—	22	3	
6	23	—	—	53540	C	15400	—	—	24	3	
6	25	PANEL 'M2'	300/3	63285	A	14000	70/3	RTU-12	26	3	
6	27	—	—	63285	B	14000	—	—	28	3	
6	29	—	—	63285	C	14000	—	—	30	3	
6	31	PANEL 'HC'	200/3	38955	A	4250	25/3	RTU-4	32	3	
6	33	—	—	39065	B	4250	—	—	34	3	
6	35	—	—	39580	C	4250	—	—	36	3	
		BUSSED SPACE						BUSSED SPACE	38	3	
		BUSSED SPACE						BUSSED SPACE	40		
		BUSSED SPACE						BUSSED SPACE	42		
		VOLT-AMPS		A PHASE		302645		NOTES: ★ PROVIDE MCB WITH GROUND-FAULT PROTECTION			
		VOLT-AMPS		B PHASE		284681					
		VOLT-AMPS		C PHASE		283264					
		TOTAL CONNECTED VOLT-AMPS				870590		LOAD TYPE SUMMARY		KVA	
								1 = LIGHTING		—	
								2 = RECEPTACLES		—	
								3 = COOLING		239.6	
								4 = HEATING		—	
								5 = MOTORS		—	
								6 = OTHER		599.8	
		PANEL VOLTAGE				480					
		TOTAL CONNECTED LOAD – AMPS				1047.2					

PANEL:	'M'		VOLTAGE:	480	400	AMP	MLO	SURFACE MOUNT – NEMA 1 25K AIC SYM.			
				3PH, 3W							
					VOLT-AMPS						
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE	
3	1	RTU-1	35/3	15400	A	1420	15/3	CU-1	2	3	
3	3	—	—	15400	B	1420	—	—	4	3	
3	5	—	—	15400	C	1420	—	—	6	3	
3	7	RTU-5	50/3	8000	A	1420	15/3	CU-2A	8	3	
3	9	—	—	8000	B	1420	—	—	10	3	
3	11	—	—	8000	C	1420	—	—	12	3	
3	13	AHU-1	20/3	3860	A	1420	15/3	CU-2B	14	3	
3	15	—	—	3860	B	1420	—	—	16	3	
3	17	—	—	3860	C	1420	—	—	18	3	
3	19	AHU-2A	20/3	3860	A	1600	15/3	CU-3A	20	3	
3	21	—	—	3860	B	1600	—	—	22	3	
3	23	—	—	3860	C	1600	—	—	24	3	
3	25	AHU-2B	20/3	3860	A	1600	15/3	CU-3B	26	3	
3	27	—	—	3860	B	1600	—	—	28	3	
3	29	—	—	3860	C	1600	—	—	30	3	
3	31	AHU-3A	25/3	5550	A			BUSSED SPACE	32		
3	33	—	—	5550	B			BUSSED SPACE	34		
3	35	—	—	5550	C			BUSSED SPACE	36		
3	37	AHU-3B	25/3	5550	A			BUSSED SPACE	38		
3	39	—	—	5550	B			BUSSED SPACE	40		
3	41	—	—	5550	C			BUSSED SPACE	42		
		VOLT-AMPS		A PHASE		53540					
		VOLT-AMPS		B PHASE		53540					
		VOLT-AMPS		C PHASE		53540					
		TOTAL CONNECTED VOLT-AMPS				160620		LOAD TYPE SUMMARY		KVA	
								1 = LIGHTING		—	
								2 = RECEPTACLES		—	
								3 = COOLING		168.0	
								4 = HEATING		—	
								5 = MOTORS		—	
								6 = OTHER		—	
		PANEL VOLTAGE				480					
		TOTAL CONNECTED LOAD – AMPS				193.2					

PANEL:	'M2'		VOLTAGE:	480	400	AMP	MLO	SURFACE MOUNT – NEMA 1 25K AIC SYM.			
				3PH, 3W							
					VOLT-AMPS						
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE	
3	1	AHU-4	20/3	3860	A	1420	15/3	CU-4	2	3	
3	3	—	—	3860	B	1420	—	—	4	3	
3	5	—	—	3860	C	1420	—	—	6	3	
3	7	AHU-5	50/3	10650	A	2840	20/3	CU-5	8	3	
3	9	—	—	10650	B	2840	—	—	10	3	
3	11	—	—	10650	C	2840	—	—	12	3	
3	13	AHU-6	20/3	3860	A	1420	15/3	CU-6	14	3	
3	15	—	—	3860	B	1420	—	—	16	3	
3	17	—	—	3860	C	1420	—	—	18	3	
3	19	AHU-7	25/3	5525	A	1600	15/3	CU-7	20	3	
3	21	—	—	5525	B	1600	—	—	22	3	
3	23	—	—	5525	C	1600	—	—	24	3	
3	25	AHU-8A	25/3	5525	A	4150	20/3	CU-8A	26	3	
3	27	—	—	5525	B	4150	—	—	28	3	
3	29	—	—	5525	C	4150	—	—	30	3	
3	31	AHU-8B	25/3	5525	A	4150	20/3	CU-8B	32	3	
3	33	—	—	5525	B	4150	—	—	34	3	
3	35	—	—	5525	C	4150	—	—	36	3	
		BUSSED SPACE				A 12760	100/3	PANEL 'M3'	38	6	
		BUSSED SPACE				B 12760	—	—	40	6	
		BUSSED SPACE				C 12760	—	—	42	6	
		VOLT-AMPS		A PHASE		63285					
		VOLT-AMPS		B PHASE		63285					
		VOLT-AMPS		C PHASE		63285					
		TOTAL CONNECTED VOLT-AMPS				189855		LOAD TYPE SUMMARY		KVA	
								1 = LIGHTING		—	
								2 = RECEPTACLES		—	
								3 = COOLING		167.0	
								4 = HEATING		—	
								5 = MOTORS		—	
								6 = OTHER		38.3	
		PANEL VOLTAGE				480					
		TOTAL CONNECTED LOAD – AMPS				228.4					

PANEL:	'M3'		VOLTAGE:	480	225	AMP	MLO	SURFACE MOUNT – NEMA 1 25K AIC SYM.			
				3PH, 3W							
					VOLT-AMPS						
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE	
3	1	RTU-8	15/3	2530	A	3200	20/3	RTU-10	2	3	
3	3	—	—	2530	B	3200	—	—	4	3	
3	5	—	—	2530	C	3200	—	—	6	3	
3	7	RTU-9	15/3	2530	A	4500	25/3	RTU-11	8	3	
3	9	—	—	2530	B	4500	—	—	10	3	
3	11	—	—	2530	C	4500	—	—	12	3	
		BUSSED SPACE				A		BUSSED SPACE	14		
		BUSSED SPACE				B		BUSSED SPACE	16		
		BUSSED SPACE				C		BUSSED SPACE	18		
		BUSSED SPACE				A		BUSSED SPACE	20		
		BUSSED SPACE				B		BUSSED SPACE	22		
		BUSSED SPACE				C		BUSSED SPACE	24		
		BUSSED SPACE				A		BUSSED SPACE	26		
		BUSSED SPACE				B		BUSSED SPACE	28		
		BUSSED SPACE				C		BUSSED SPACE	30		
		BUSSED SPACE				A		BUSSED SPACE	32		
		BUSSED SPACE				B		BUSSED SPACE	34		
		BUSSED SPACE				C		BUSSED SPACE	36		
		BUSSED SPACE				A		BUSSED SPACE	38		
		BUSSED SPACE				B		BUSSED SPACE	40		
		BUSSED SPACE				C		BUSSED SPACE	42		
		VOLT-AMPS		A PHASE		12760					
		VOLT-AMPS		B PHASE		12760					
		VOLT-AMPS		C PHASE		12760					
		TOTAL CONNECTED VOLT-AMPS				38280		LOAD TYPE SUMMARY		KVA	
								1 = LIGHTING		—	
								2 = RECEPTACLES		—	
								3 = COOLING		38.3	
								4 = HEATING		—	
								5 = MOTORS		—	
								6 = OTHER		—	
		PANEL VOLTAGE				480					
		TOTAL CONNECTED LOAD – AMPS				46.0					

PANEL:	'H'		VOLTAGE:	277/480	225	AMP	MLO	SURFACE MOUNT – NEMA 1 25K AIC SYM.			
				3PH, 4W							
					VOLT-AMPS						
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE	
1	1	SITE LIGHTING	20/1	2400	A	800	20/1	INTERIOR LIGHTING	2	1	
1	3	SITE LIGHTING	20/1	1200	B	1300	20/1	INTERIOR LIGHTING	4	1	
1	5	SITE LIGHTING	20/1	1800	C	1200	20/1	PERIMETER LIGHTING	6	1	
		SPARE	20/1		A	1050	20/1	PERIMETER LIGHTING	8	1	
		SPARE	20/1		B		20/1	SPARE	10		
		SPARE	20/1		C		20/1	SPARE	12		
		BUSSED SPACE				A	20/1	SPARE	14		
		BUSSED SPACE				B		BUSSED SPACE	16		
		BUSSED SPACE				C		BUSSED SPACE	18		
		BUSSED SPACE				A		BUSSED SPACE	20		</



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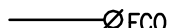
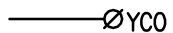
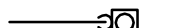




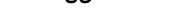
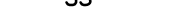





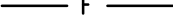

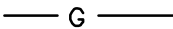

PANEL:	<u>'DM'</u>	VOLTAGE:120/208		100 AMP		MCB	SURFACE MOUNT – NEMA 1 10K AIC SYM.			
		3PH, 4W	225A BUS	200% NEUTRAL BUS						
		VOLT-AMPS								
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE
1	1	BAPTISTRY LIGHTING	20/1	600	A	1200	20/1	ASSEMBLY LIGHTING	2	1
1	3	ASSEMBLY LIGHTING	20/1	750	B	900	20/1	ASSEMBLY LIGHTING	4	1
1	5	ASSEMBLY LIGHTING	20/1	600	C	1200	20/1	ASSEMBLY LIGHTING	6	1
1	7	ASSEMBLY LIGHTING	20/1	1050	A	900	20/1	ASSEMBLY LIGHTING	8	1
1	9	ASSEMBLY LIGHTING	20/1	900	B	1200	20/1	ASSEMBLY LIGHTING	10	1
1	11	ASSEMBLY LIGHTING	20/1	900	C	1200	20/1	ASSEMBLY LIGHTING	12	1
1	13	ASSEMBLY LIGHTING	20/1	1050	A	900	20/1	ASSEMBLY LIGHTING	14	1
1	15	ASSEMBLY LIGHTING	20/1	1200	B	900	20/1	ASSEMBLY LIGHTING	16	1
1	17	ASSEMBLY LIGHTING	20/1	1200	C	900	20/1	ASSEMBLY LIGHTING	18	1
1	19	ASSEMBLY LIGHTING	20/1	1350	A	900	20/1	ASSEMBLY LIGHTING	20	1
1	21	ASSEMBLY LIGHTING	20/1	1350	B	900	20/1	ASSEMBLY LIGHTING	22	1
1	23	ASSEMBLY LIGHTING	20/1	1350	C	900	20/1	ASSEMBLY LIGHTING	24	1
1	25	ASSEMBLY LIGHTING	20/1	1350	A	900	20/1	ASSEMBLY LIGHTING	26	1
	27	SPARE	20/1		B		20/1	BUSSED SPACE	28	
	29	SPARE	20/1		C		20/1	BUSSED SPACE	30	
	31	SPARE	20/1		A		20/1	BUSSED SPACE	32	
	33	BUSSED SPACE	20/1		B		20/1	BUSSED SPACE	34	
	35	BUSSED SPACE	20/1		C		20/1	BUSSED SPACE	36	
	37	BUSSED SPACE	20/1		A		20/1	BUSSED SPACE	38	
	39	BUSSED SPACE	20/1		B		20/1	BUSSED SPACE	40	
	41	BUSSED SPACE	20/1		C		20/1	BUSSED SPACE	42	
VOLT-AMPS		A PHASE		10200		NOTE:				
VOLT-AMPS		B PHASE		8100						
VOLT-AMPS		C PHASE		8250						
TOTAL CONNECTED VOLT-AMPS				26550		LOAD TYPE SUMMARY		KVA		
						1 = LIGHTING		26.6		
						2 = RECEPTACLES		–		
PANEL VOLTAGE				208		3 = COOLING		–		
TOTAL CONNECTED LOAD – AMPS				73.7		4 = HEATING		–		
						5 = MOTORS		–		
						6 = OTHER		–		

PANEL: 'AV'		VOLTAGE:120/208 3PH, 4W		100 AMP 225A BUS		MCB		SURFACE MOUNT – NEMA 1 10K AIC SYM.		
		VOLT-AMPS		LOAD PHASE		LOAD		CB SIZE		
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE
6	1	A/V FLOOR BOXES	20/1	800	A	800	20/1	MEDIA ROOM EQUIP.	2	6
6	3	A/V FLOOR BOXES	20/1	800	B	800	20/1	MEDIA ROOM EQUIP.	4	6
6	5	A/V FLOOR BOXES	20/1	800	C	800	20/1	MEDIA ROOM EQUIP.	6	6
6	7	SOUND ROOM EQUIP.	20/1	800	A	800	20/1	MEDIA ROOM EQUIP.	8	6
6	9	SOUND ROOM EQUIP.	20/1	800	B	800	20/1	CLASSROOM A/V RACK	10	6
6	11	SOUND ROOM EQUIP.	20/1	800	C	800	20/1	CLASSROOM A/V RACK	12	6
6	13	SOUND ROOM EQUIP.	20/1	800	A	800	20/1	AMPLIFIER RACK	14	6
6	15	SOUND ROOM EQUIP.	20/1	800	B		20/1	SPARE	16	
	17	SPARE	20/1		C		20/1	SPARE	18	
	19	SPARE	20/1		A		20/1	SPARE	20	
	21	SPARE	20/1		B			BUSSED SPACE	22	
	23	BUSSED SPACE			C			BUSSED SPACE	24	
	25	BUSSED SPACE			A			BUSSED SPACE	26	
	27	BUSSED SPACE			B			BUSSED SPACE	28	
	29	BUSSED SPACE			C			BUSSED SPACE	30	
	31	BUSSED SPACE			A			BUSSED SPACE	32	
	33	BUSSED SPACE			B			BUSSED SPACE	34	
	35	BUSSED SPACE			C			BUSSED SPACE	36	
	37	BUSSED SPACE			A			BUSSED SPACE	38	
	39	BUSSED SPACE			B			BUSSED SPACE	40	
	41	BUSSED SPACE			C			BUSSED SPACE	42	
VOLT-AMPS		A PHASE		4800		NOTE:				
VOLT-AMPS		B PHASE		4000						
VOLT-AMPS		C PHASE		3200		LOAD TYPE SUMMARY		KVA		
TOTAL CONNECTED VOLT-AMPS				12000		1 = LIGHTING		–		
						2 = RECEPTACLES		–		
						3 = COOLING		–		
PANEL VOLTAGE				208		4 = HEATING		–		
TOTAL CONNECTED LOAD – AMPS				33.3		5 = MOTORS		–		
						6 = OTHER		12.0		

PANEL: 'H3'		VOLTAGE: 277/480 3PH, 4W		225 AMP		MLO		SURFACE MOUNT - NEMA 1 25K AIC SYM.		
		VOLT-AMPS								
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE
1	1	INTERIOR LIGHTING	20/1	2380	A	4500	25/1	EWB-2	2	6
1	3	INTERIOR LIGHTING	20/1	1800	B		20/1	SPARE	4	
1	5	INTERIOR LIGHTING	20/1	2355	C		20/1	SPARE	6	
1	7	MEZZANINE LIGHTING	20/1	520	A		20/1	SPARE	8	
	9	BUSSED SPACE			B			BUSSED SPACE	10	
	11	BUSSED SPACE			C			BUSSED SPACE	12	
	13	BUSSED SPACE			A			BUSSED SPACE	14	
	15	BUSSED SPACE			B			BUSSED SPACE	16	
	17	BUSSED SPACE			C			BUSSED SPACE	18	
	19	BUSSED SPACE			A			BUSSED SPACE	20	
	21	BUSSED SPACE			B			BUSSED SPACE	22	
	23	BUSSED SPACE			C			BUSSED SPACE	24	
	25	BUSSED SPACE			A			BUSSED SPACE	26	
	27	BUSSED SPACE			B			BUSSED SPACE	28	
	29	BUSSED SPACE			C			BUSSED SPACE	30	
	31	BUSSED SPACE			A			BUSSED SPACE	32	
	33	BUSSED SPACE			B			BUSSED SPACE	34	
	35	BUSSED SPACE			C			BUSSED SPACE	36	
	37	BUSSED SPACE			A	14440	70/3	XFMR. 'T3' (PANEL 'L3')	38	6
6	39	XFMR. 'TG' (PANEL 'G')	30/2	2476	B	10780	—	—	40	6
6	41	—	—	1128	C	10496	—	—	42	6
VOLT-AMPS		A PHASE	21840		LOAD TYPE SUMMARY		KVA			
VOLT-AMPS		B PHASE	15056		1 = LIGHTING		7.1			
VOLT-AMPS		C PHASE	13979		2 = RECEPTACLES		—			
TOTAL CONNECTED VOLT-AMPS			50875		3 = COOLING		—			
PANEL VOLTAGE			480		4 = HEATING		—			
TOTAL CONNECTED LOAD - AMPS			61.2		5 = MOTORS		—			
					6 = OTHER		43.8			

PANEL: <u> 'L3' </u>		VOLTAGE:120/208 3PH, 4W		150 AMP 225A BUS		MCB		SURFACE MOUNT – NEMA 1 10K AIC SYM.		
		VOLT-AMPS		LOAD PHASE		LOAD		CB SIZE		
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE
6	1	REFRIGERATOR	20/1	1200	A	720	20/1	GP RECEPTACLES	2	2
2	3	GFCI RECEPTACLES	20/1	360	B	720	20/1	GP RECEPTACLES	4	2
2	5	GP RECEPTACLES	20/1	900	C	540	20/1	WP, GFCI RECEPTACLES	6	2
2	7	GP RECEPTACLES	20/1	720	A	720	20/1	GP RECEPTACLES	8	2
2	9	GP RECEPTACLES	20/1	720	B	900	20/1	GP RECEPTACLES	10	2
2	11	GP RECEPTACLES	20/1	900	C	540	20/1	WP, GFCI RECEPTACLES	12	2
2	13	GP RECEPTACLES	20/1	900	A	4000	50/2	ELECTRIC RANGE	14	6
2	15	GP RECEPTACLES	20/1	720	B	4000	—	—	16	6
6	17	ELEC. DRINKING FOUNTAIN	20/1	1000	C	4000	50/2	ELECTRIC RANGE	18	6
6	19	SPARE	20/1		A	4000	—	—	20	6
6	21	REFRIGERATOR	20/1	1200	B	540	20/1	GFCI RECEPTACLES	22	2
6	23	REFRIGERATOR	20/1	1200	C	540	20/1	GFCI RECEPTACLES	24	2
6	25	DISHWASHER	20/1	800	A	180	20/1	GFCI RECEPTACLE	26	2
2	27	GP RECEPTACLES	20/1	720	B		20/1	SPARE	28	
2	29	WP, GFCI RECEPTACE	20/1	180	C		20/1	SPARE	30	
6	31	EF-1	20/1	1200	A		20/1	SPARE	32	
6	33	SF-1	20/1	900	B			BUSSED SPACE	34	
6	35	(2) EF-2	20/1	696	C			BUSSED SPACE	36	
	37	SPARE	20/1		A			BUSSED SPACE	38	
	39	SPARE	20/1		B			BUSSED SPACE	40	
	41	SPARE	20/1		C			BUSSED SPACE	42	
VOLT-AMPS		A PHASE		14440		NOTE:				
VOLT-AMPS		B PHASE		10780						
VOLT-AMPS		C PHASE		10496		LOAD TYPE SUMMARY		KVA		
TOTAL CONNECTED VOLT-AMPS				35716		1 = LIGHTING		—		
						2 = RECEPTACLES		11.5		
PANEL VOLTAGE				208		3 = COOLING		—		
TOTAL CONNECTED LOAD – AMPS				99.1		4 = HEATING		—		
						5 = MOTORS		—		
						6 = OTHER		24.2		



	CLEANOUT
	FLOOR CLEANOUT
	YARD CLEANOUT
	FLOOR DRAIN
	(SIZE & TYPE NOTED IN SPECIFICATION)
	HUB DRAIN
	SANITARY COMBINATION FITTING
	VENT PIPE (PLUMBING)
	EXISTING SANITARY SEWER
	NEW SOIL, WASTE PIPE OR SANITARY SEWER
	EXISTING COLD WATER PIPE
	EXISTING HOT WATER PIPE
	NEW COLD WATER PIPE
	NEW HOT WATER (120°)
	NEW HOT WATER PIPE RECOR.
	FIRE LINE
	AUTOMATIC FIRE SPRINKLER PIPING
	GAS
	GREASE WASTE
	SHUT-OFF VALVE

AC	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BF	BELOW FLOOR
GPM	GALLONS PER MINUTE
P-2	PLBG. FIXTURE DESIGNATION
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH (GAUGE)
TP	TRAP PRIMER
VTR	VENT THRU ROOF

REVISIONS:	
DATE	BY
8/2/10	A

TRUE VISION CHURCH
ACKERMAN ROAD
SAN ANTONIO, TX 78219

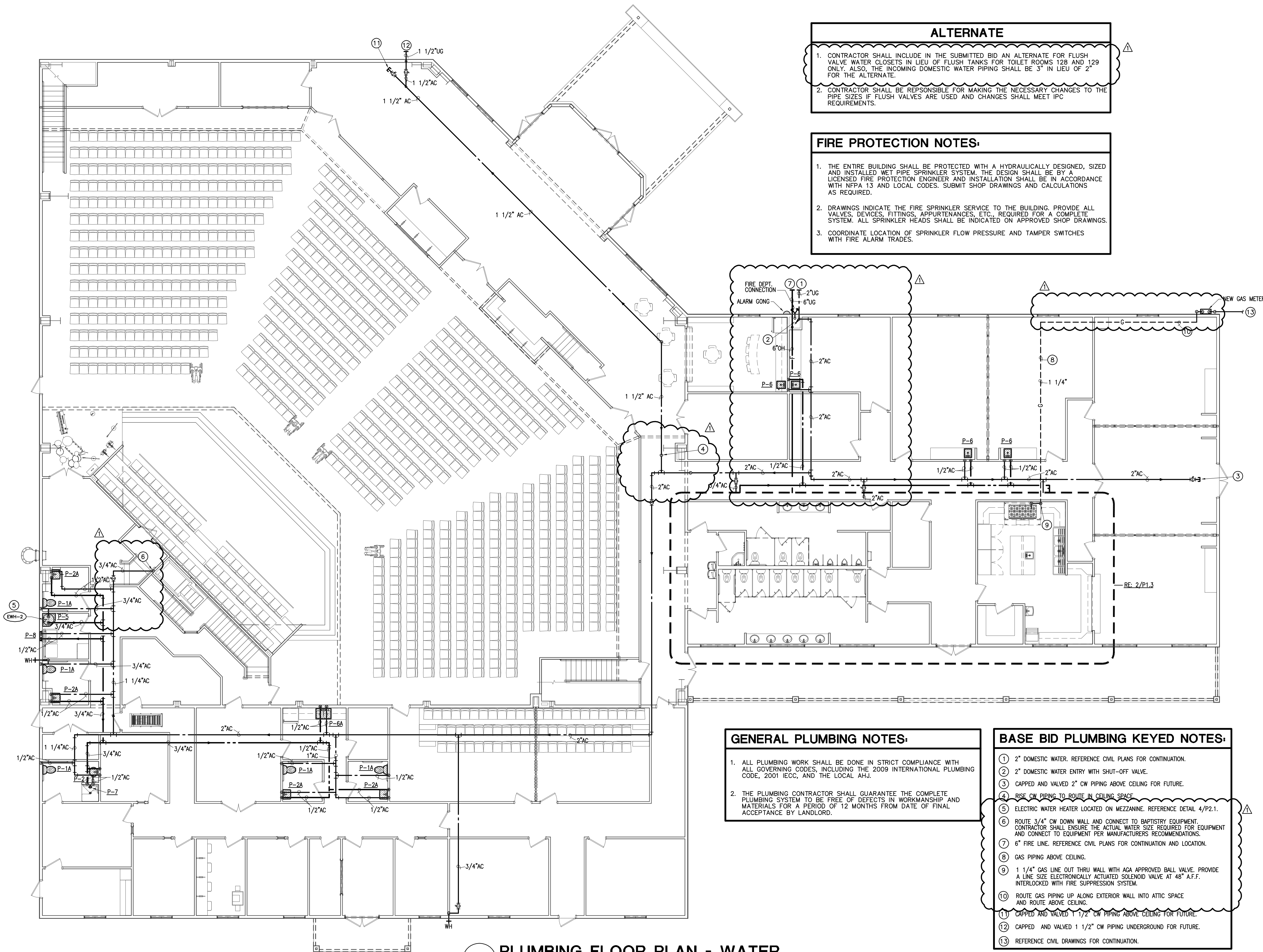
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SHEET NUMBER

P1.1



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

ALTERNATE

1. CONTRACTOR SHALL INCLUDE IN THE SUBMITTED BID AN ALTERNATE FOR FLUSH VALVE WATER CLOSETS IN LIEU OF FLUSH TANKS FOR TOILET ROOMS 128 AND 129 ONLY. ALSO, THE INCOMING DOMESTIC WATER PIPING SHALL BE 3" IN LIEU OF 2" FOR THE ALTERNATE.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE NECESSARY CHANGES TO THE PIPE SIZES IF FLUSH VALVES ARE USED AND CHANGES SHALL MEET IPC REQUIREMENTS.

FIRE PROTECTION NOTES:

1. THE ENTIRE BUILDING SHALL BE PROTECTED WITH A HYDRAULICALLY DESIGNED, SIZED AND INSTALLED WET PIPE SPRINKLER SYSTEM. THE DESIGN SHALL BE BY A LICENSED FIRE PROTECTION ENGINEER AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13 AND LOCAL CODES. SUBMIT SHOP DRAWINGS AND CALCULATIONS AS REQUIRED.

2. DRAWINGS INDICATE THE FIRE SPRINKLER SERVICE TO THE BUILDING. PROVIDE ALL VALVES, DEVICES, FITTINGS, APPURTENANCES, ETC., REQUIRED FOR A COMPLETE SYSTEM. ALL SPRINKLER HEADS SHALL BE INDICATED ON APPROVED SHOP DRAWINGS.

3. COORDINATE LOCATION OF SPRINKLER FLOW PRESSURE AND TAMPER SWITCHES WITH FIRE ALARM TRADES.

GENERAL PLUMBING NOTES:

1. ALL PLUMBING WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL GOVERNING CODES, INCLUDING THE 2009 INTERNATIONAL PLUMBING CODE, 2001 IECC, AND THE LOCAL AHJ.

2. THE PLUMBING CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE BY LANDLORD.

BASE BID PLUMBING KEYED NOTES:

① 2" DOMESTIC WATER. REFERENCE CIVIL PLANS FOR CONTINUATION.

② 2" DOMESTIC WATER ENTRY WITH SHUT-OFF VALVE.

③ CAPPED AND VALVED 2" CW PIPING ABOVE CEILING FOR FUTURE.

④ RISE CW PIPING TO ROUTE IN CEILING SPACE.

⑤ ELECTRIC WATER HEATER LOCATED ON MEZZANINE. REFERENCE DETAIL 4/P2.1.

⑥ ROUTE 3/4" CW DOWN WALL AND CONNECT TO BAPTISTRY EQUIPMENT. CONTRACTOR SHALL ENSURE THE ACTUAL WATER SIZE REQUIRED FOR EQUIPMENT AND CONNECT TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.

⑦ 6" FIRE LINE. REFERENCE CIVIL PLANS FOR CONTINUATION AND LOCATION.

⑧ GAS PIPING ABOVE CEILING.

⑨ 1 1/4" GAS LINE OUT THRU WALL WITH AGA APPROVED BALL VALVE. PROVIDE A LINE SIZE ELECTRONICALLY ACTUATED SOLENOID VALVE AT 48" A.F.F. INTERLOCKED WITH FIRE SUPPRESSION SYSTEM.

⑩ ROUTE GAS PIPING UP ALONG EXTERIOR WALL INTO ATTIC SPACE AND ROUTE ABOVE CEILING.

⑪ CAPPED AND VALVED 1 1/2" CW PIPING ABOVE CEILING FOR FUTURE.

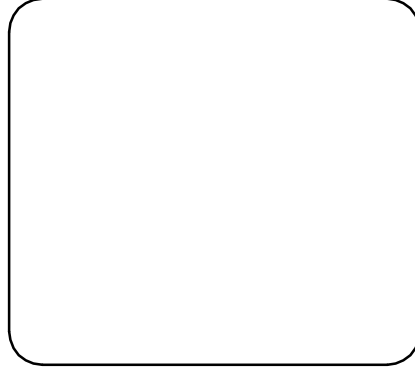
⑫ CAPPED AND VALVED 1 1/2" CW PIPING UNDERGROUND FOR FUTURE.

⑬ REFERENCE CIVIL DRAWINGS FOR CONTINUATION.

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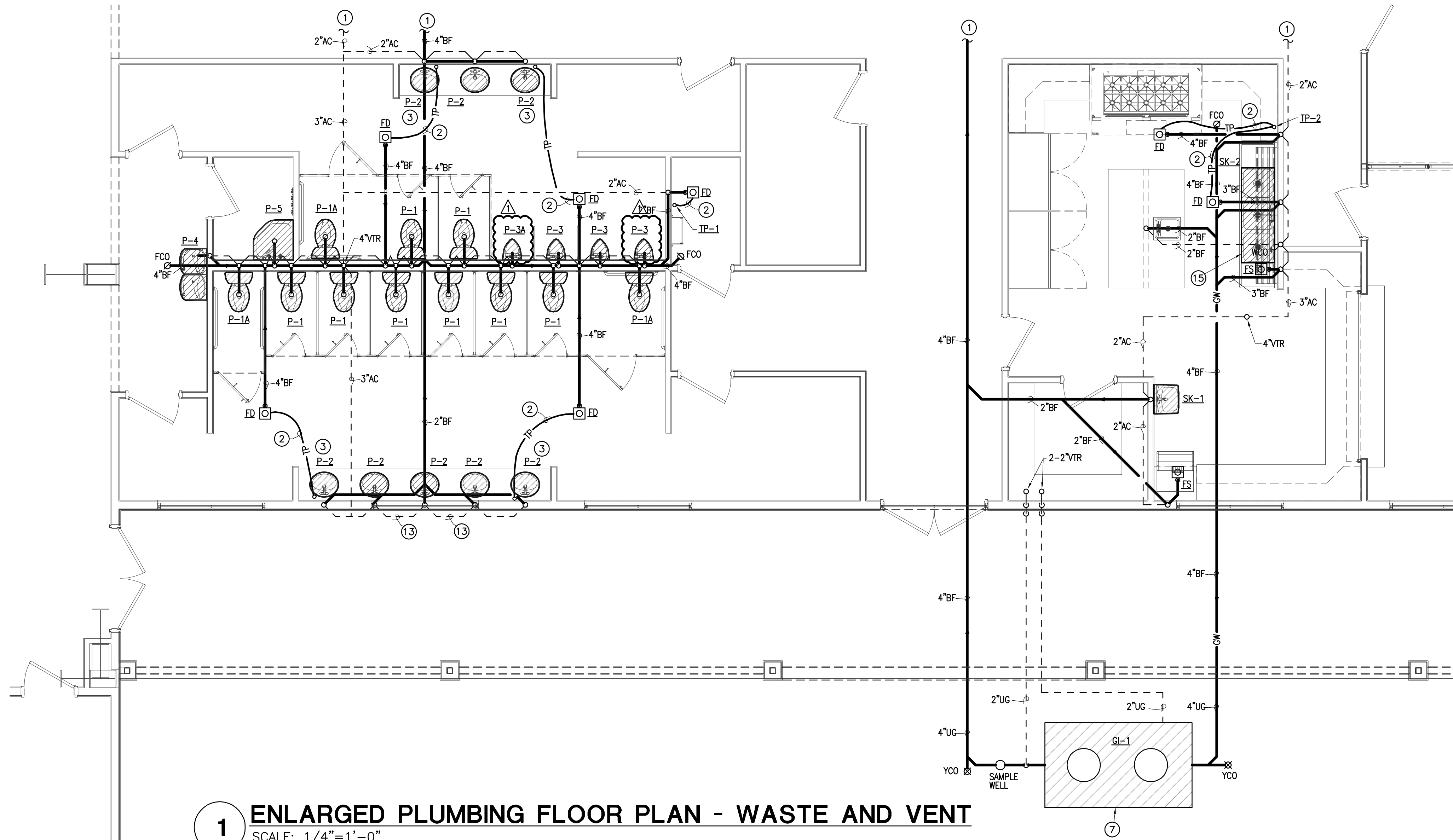
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SHEET NUMBER
P1.2

PLUMBING FLOOR PLAN - WATER



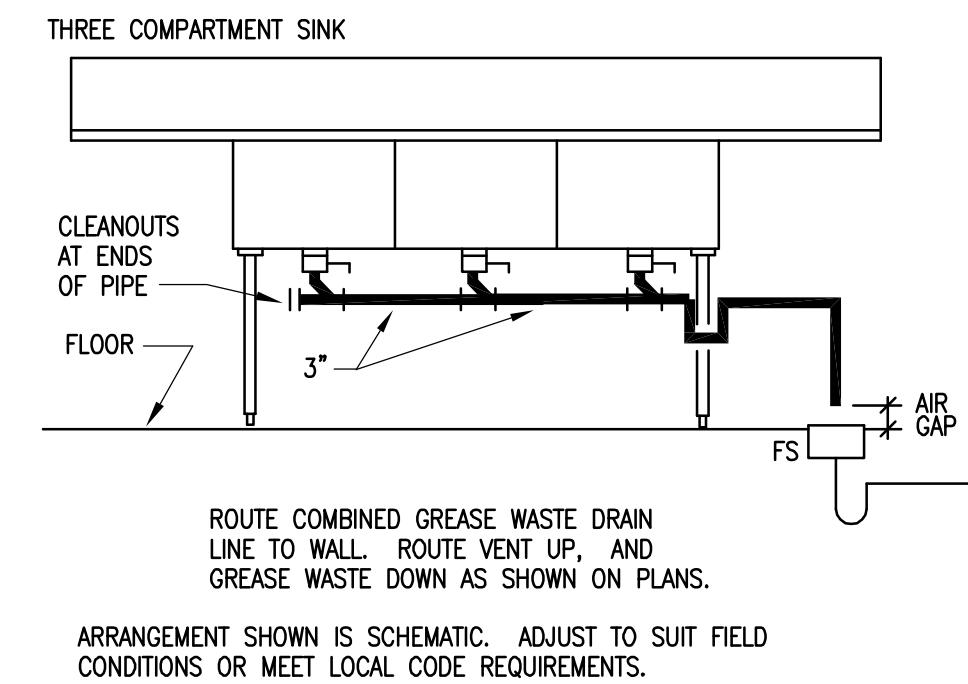
1 ENLARGED PLUMBING FLOOR PLAN - WASTE AND VENT
SCALE: 1/4"=1'-0"

GENERAL PLUMBING NOTES:

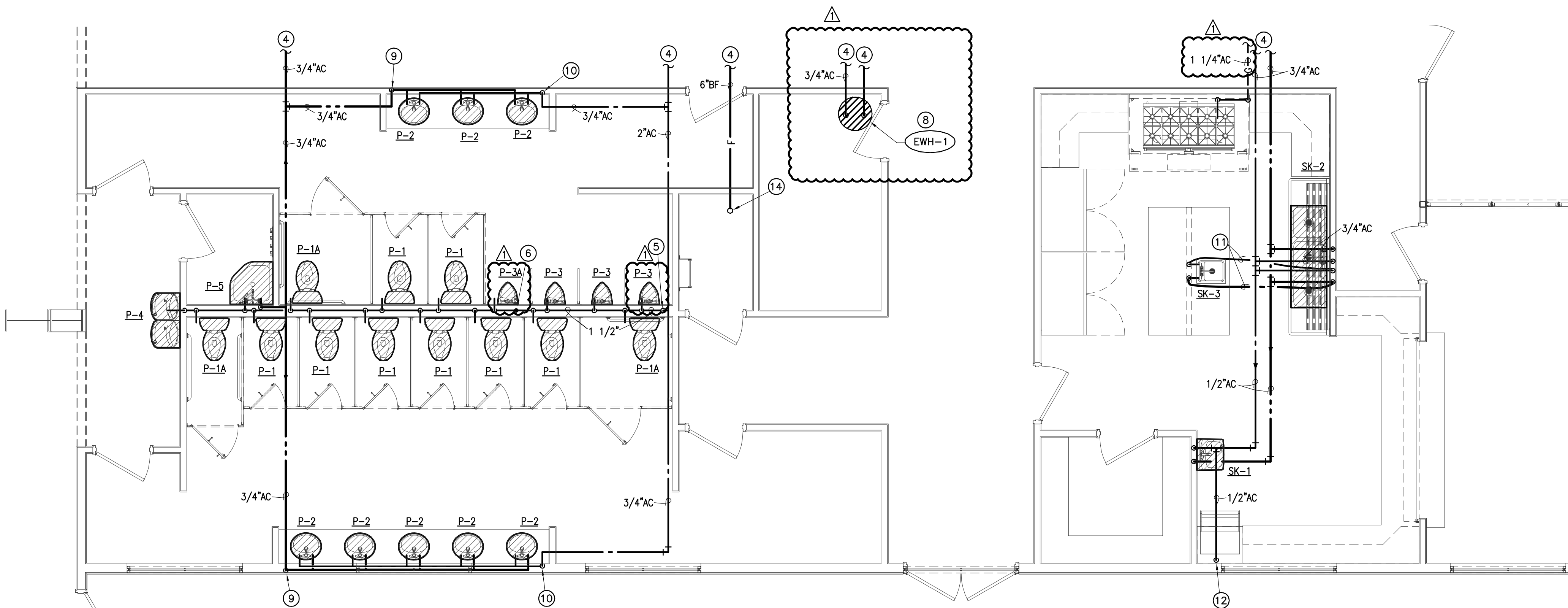
1. ALL PLUMBING WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL GOVERNING CODES, INCLUDING THE 2009 IPC, 2001 IECC, AND THE LOCAL AHJ.
2. THE PLUMBING CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE BY LANDLORD.

PLUMBING KEYED NOTES:

- 1 REFERENCE SHEET P1.1 FOR CONTINUATION
- 2 1/2" TYPE K COPPER PIPING. ROUTE BELOW FLOOR AND CONNECT TO FLOOR DRAIN.
- 3 CONTRACTOR TO PROVIDE TRAP PRIMER TAILPIECE CONNECTION AT LAVATORY AND ROUTE TO FLOOR DRAIN.
- 4 REFERENCE SHEET P1.2 FOR CONTINUATION
- 5 1 1/2" CW DOWN AND CONNECT TO 1 1/2" CW HEADER IN CHASE.
- 6 PROVIDE TYPE "C" WATER HAMMER ARRESTOR WITH ACCESS DOOR.
- 7 GREASE INTERCEPTOR. REFERENCE DETAIL 3/P2.2.
- 8 WATER HEATER IN MEZZANINE. REFERENCE DETAIL 4/P2.1.
- 9 3/4" HW DOWN AND ROUTE TO FIXTURES.
- 10 3/4" CW DOWN AND ROUTE TO FIXTURES.
- 11 1/2" HOT AND COLD WATER SOFT COPPER PIPING IN FLOOR SLAB.
- 12 1/2" CW DOWN AND CONNECT TO OWNER PROVIDED ICE MAKER FILTER.
- 13 VENT PIPING ROUGH-IN SHALL BE ROUTED BELOW WINDOW FRAMING.
- 14 6" FIRE LINE. REFERENCE DETAIL 5/P2.1.
- 15 SK-2, THREE COMPARTMENT SINK SHALL DISCHARGE THROUGH AN INDIRECT WASTE PIPING IN ACCORDANCE WITH IPC AND LOCAL PLUMBING CODE.



3 THREE COMPARTMENT SINK DETAIL
SCALE: NOT TO SCALE



2 ENLARGED PLUMBING FLOOR PLAN - WATER
SCALE: 1/4"=1'-0"

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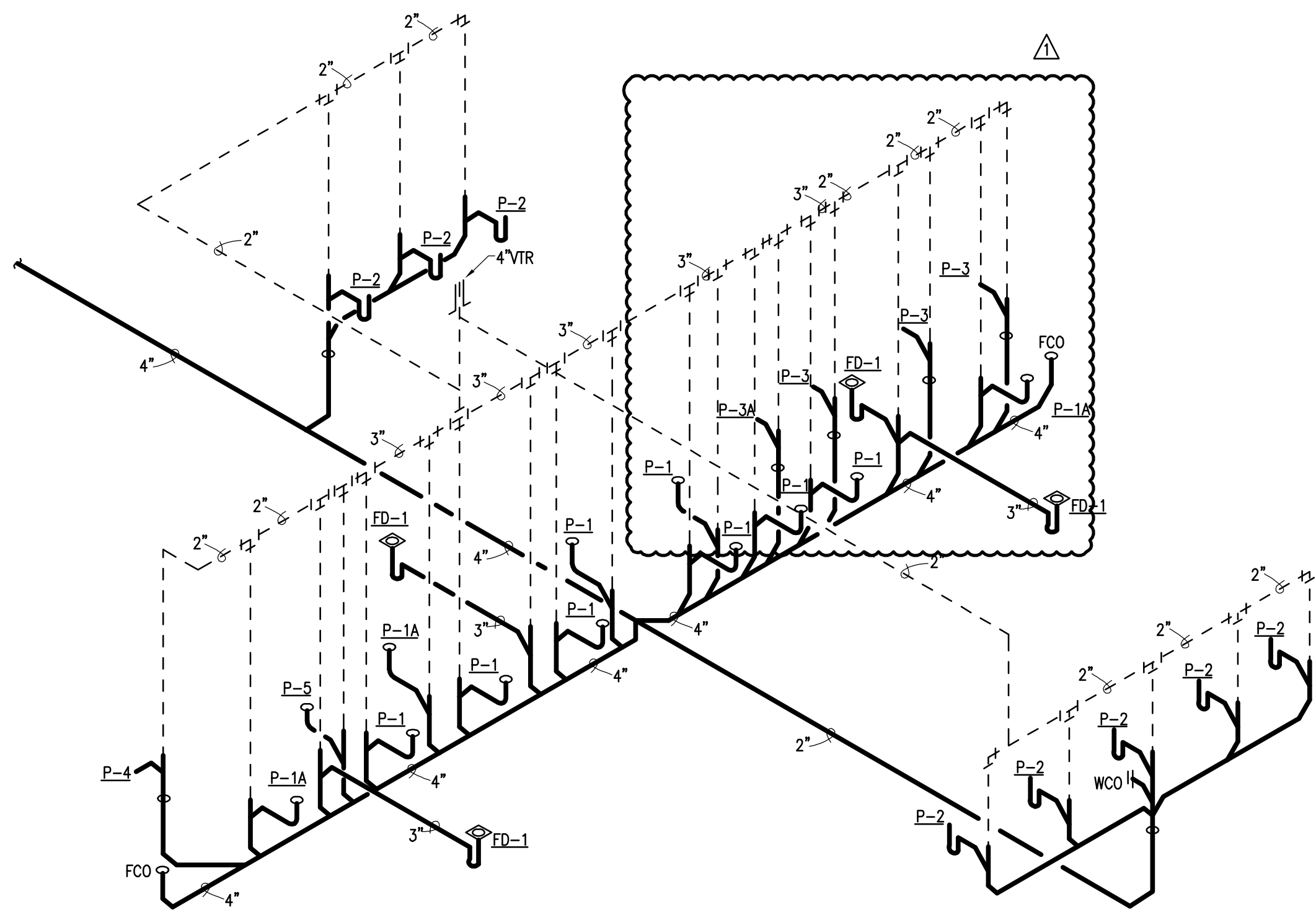
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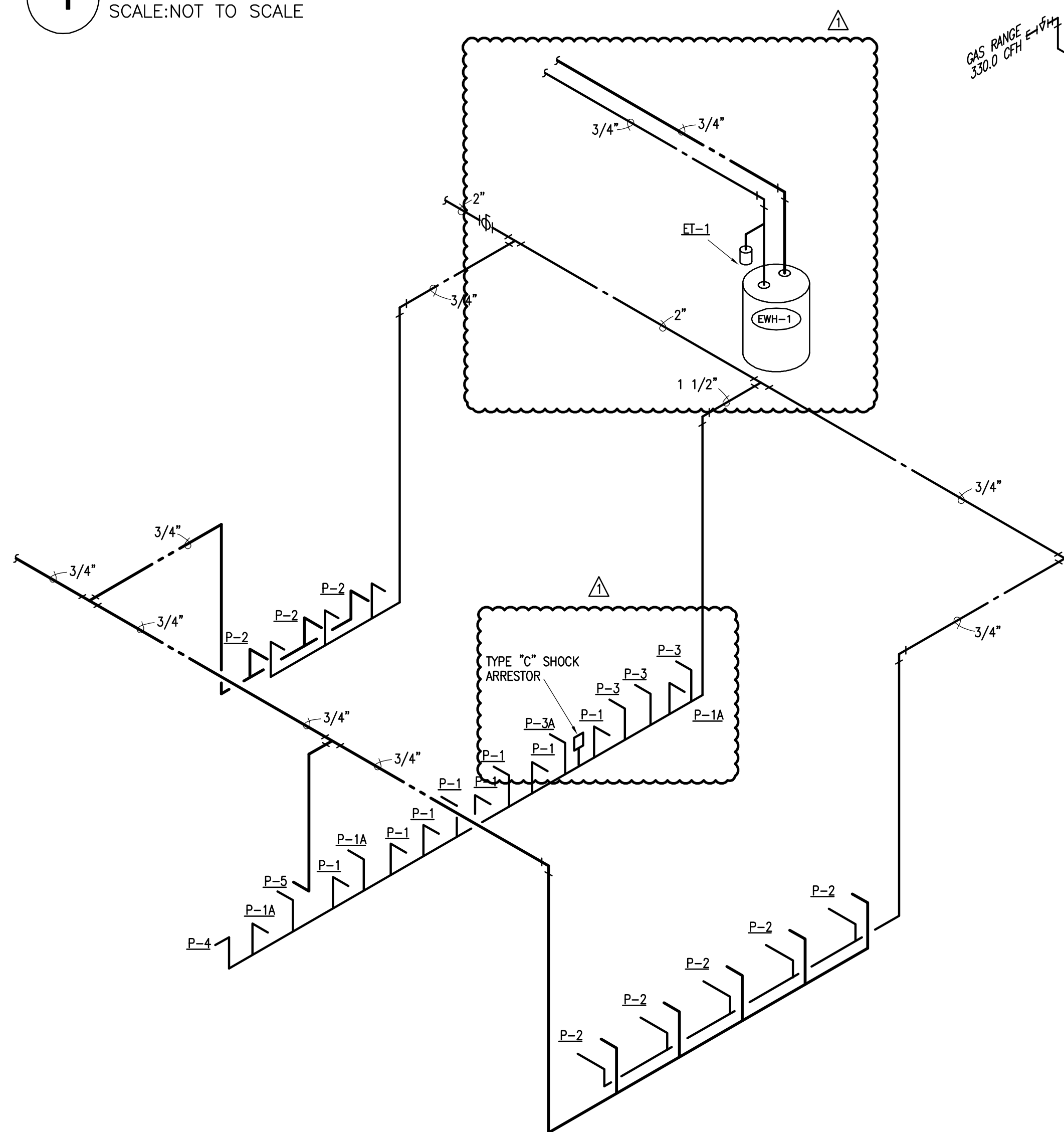
SHEET NUMBER

P1.3

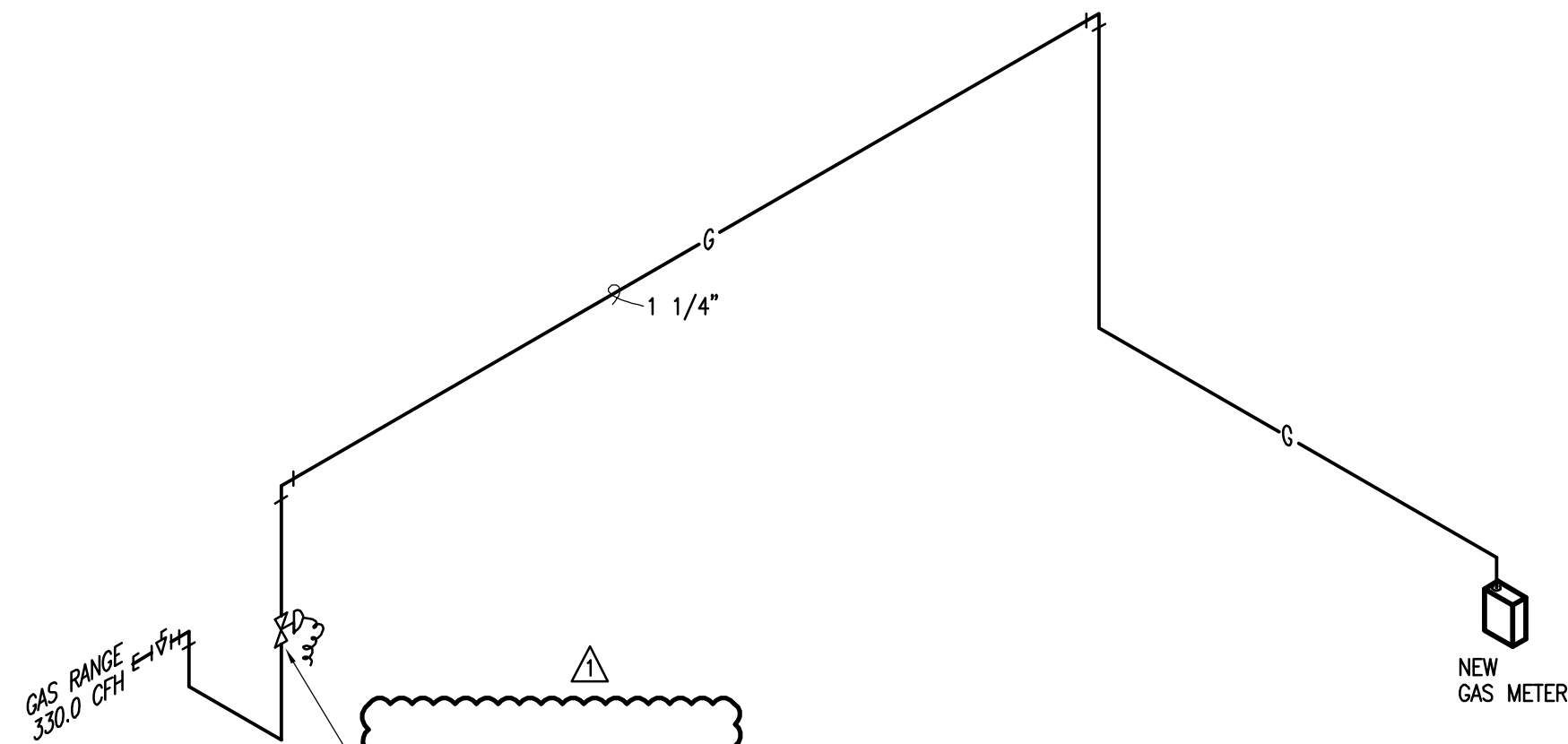
ENLARGED FLOOR PLANS - PLUMBING



1 PLUMBING RISER - WASTE AND VENT
SCALE:NOT TO SCALE

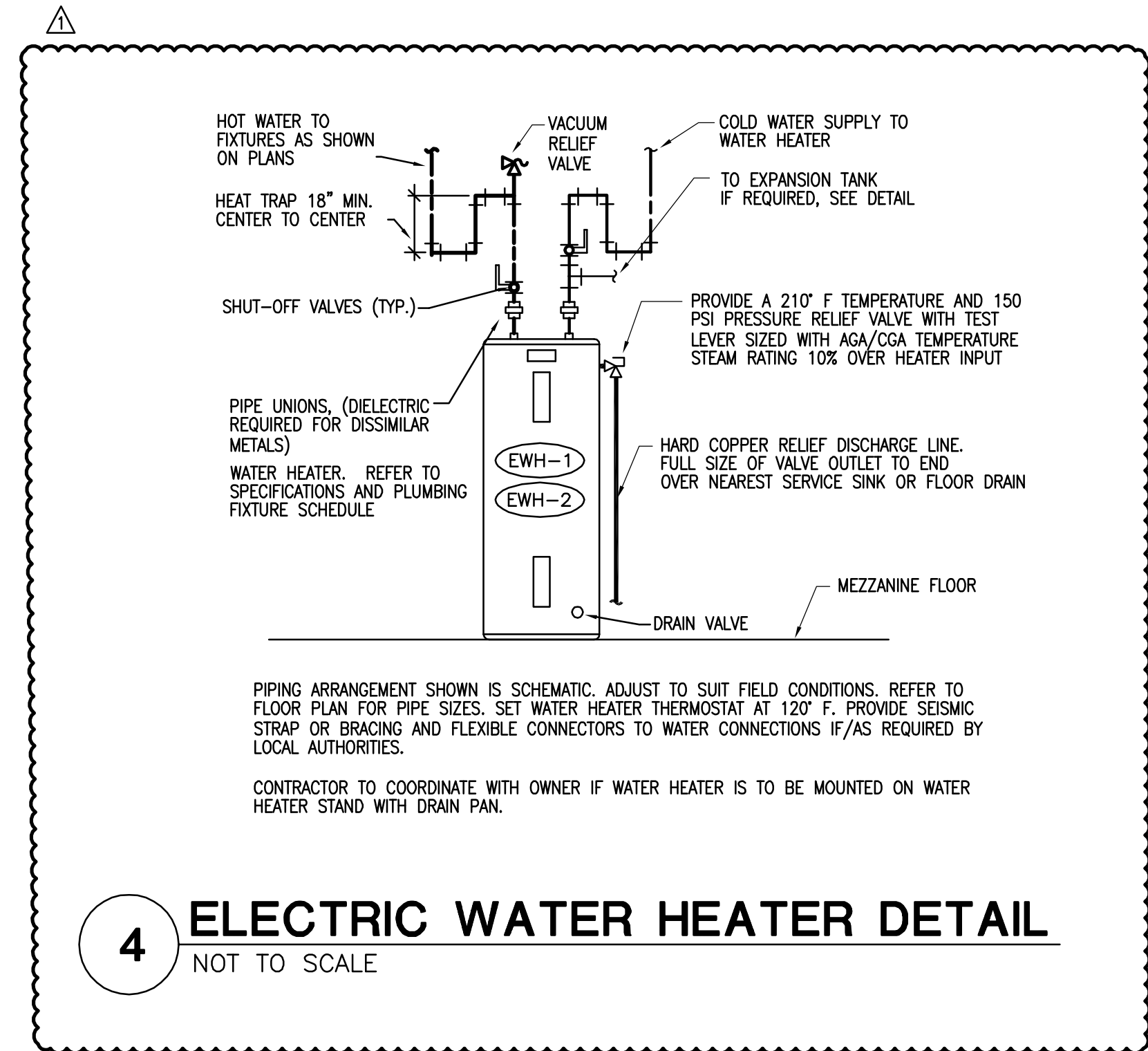


2 PLUMBING RISER - WATER
SCALE:NOT TO SCALE

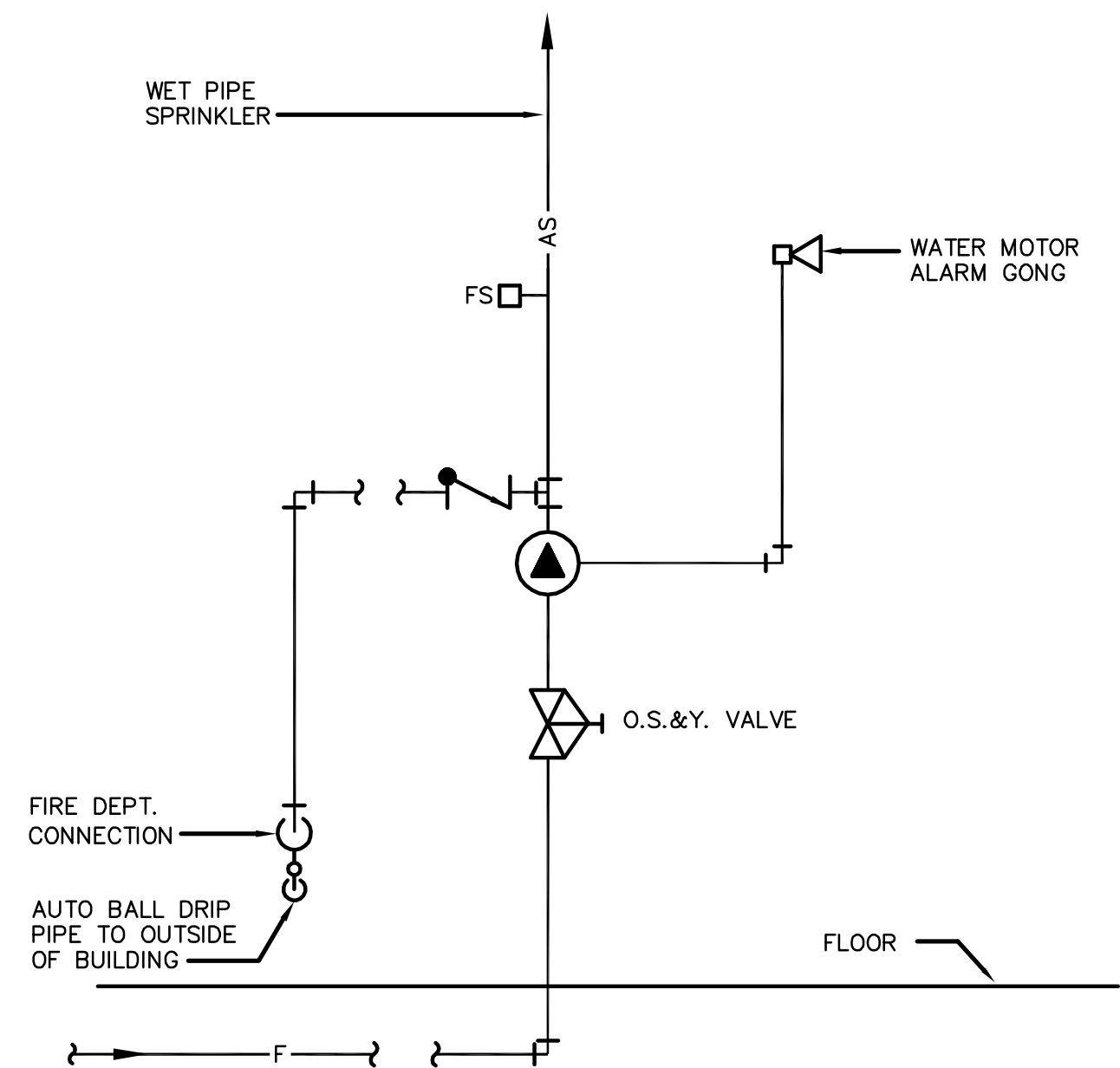


3 PLUMBING RISER - GAS
SCALE:NOT TO SCALE

GAS LOAD TABULATION	
EQUIPMENT	CFH
RANGE	330.00
TOTAL (T.D.L. = 90 FT.)	330.00



4 ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



5 FIRE SPRINKLER ALARM VALVE ASSEMBLY SCHEMATIC
NOT TO SCALE (DETAIL IS FOR REFERENCE ONLY)

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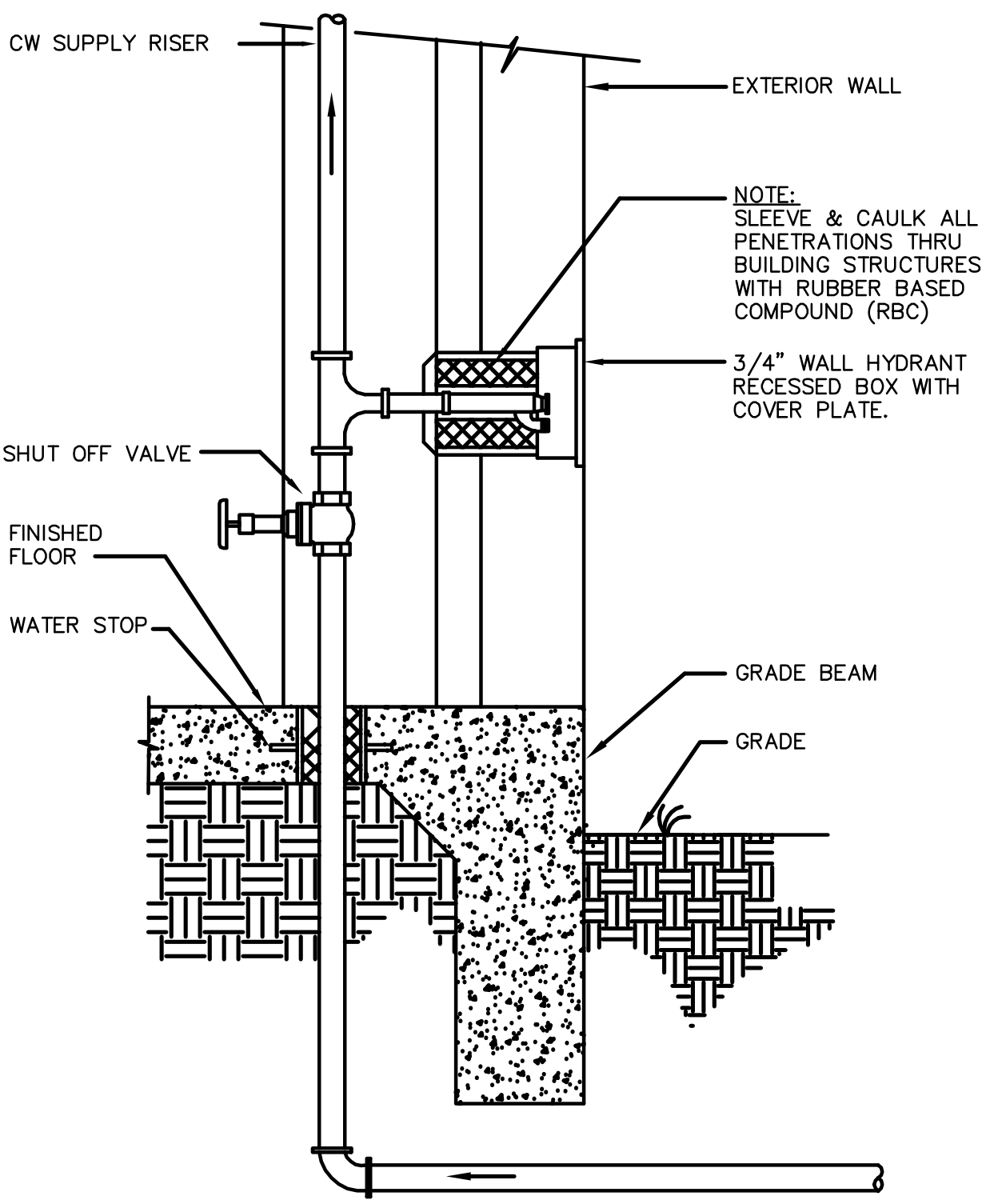
SHEET NUMBER
P2.1

PLUMBING RISERS

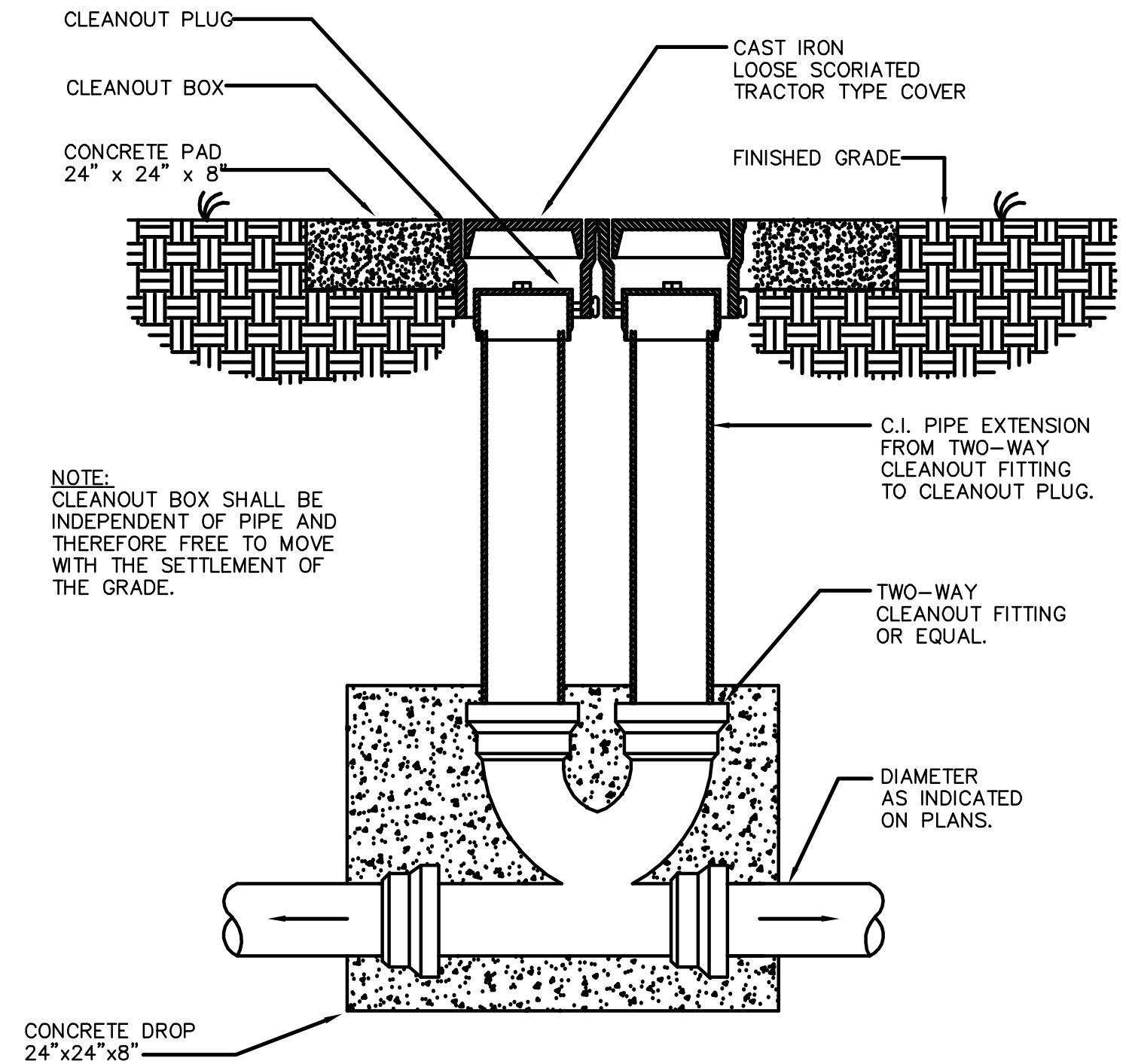
PLUMBING FIXTURE SCHEDULE						
MARK	ITEM	CW	HW	DRAIN	VENT	REMARKS
P-1	WATER CLOSET	1/2"	--	4"	2"	AMERICAN STANDARD #2898.012 CADET 14 3/4" HIGH, #4112.800 TANK TYPE, FLOOR SET, 1.6 GPF, OLSONITE #95 OPEN FRONT SEAT LESS COVER, TANK COVER LOCKING DEVICE, LOOSE KEY ANGLE STOP.
P-1A	WATER CLOSET, ADA	1/2"	--	4"	2"	AMERICAN STANDARD #2998.012 CADET 16 1/2" HIGH, #4112.800 TANK TYPE, FLOOR SET, 1.6 GPF, OLSONITE #95 OPEN FRONT SEAT LESS COVER, TANK COVER LOCKING DEVICE, LOOSE KEY ANGLE STOP. INSTALL IN ACCORDANCE W/ADA REQUIREMENTS
P-2	LAVATORY, OVAL, ADA	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD #0476.028 'AQUALYN' ADA COUNTERTOP LAVATORY; 'ADA' SELF RIMMING WITH 4" O.C. FAUCET HOLES. PROVIDE WITH AMERICAN STANDARD NO. 2275.500 CENTERSET LAVATORY FITTING, ADA APPROVED, WITH POP UP DRAIN & LEVER HANDLES FURNISH W/SUPPLIES & STOPS.
P-2A	LAVATORY, ADA	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD #0355.012 'LUCERNE' WALL HUNG LAVATORY: VITREOUS CHINA WITH INTEGRAL BACKSPASH WITH 4" O.C. FAUCET HOLES. PROVIDE WITH AMERICAN STANDARD NO. 2275.500 CENTERSET LAVATORY FITTING, ADA APPROVED, WITH POP UP DRAIN & LEVER HANDLES FURNISH W/SUPPLIES & STOPS.
P-3	URINAL	3/4"		2"	1 1/2"	AMERICAN STANDARD # 6501.010 "WASHBROOK", WALL MOUNTED, SLOAN REGAL # 186 FLUSH VALVE.
P-3A	URINAL, ADA	3/4"		2"	1 1/2"	AMERICAN STANDARD # 6501.010 "WASHBROOK", WALL MOUNTED, SLOAN REGAL # 186 FLUSH VALVE. INSTALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS
P-4	DRINKING FOUNTAIN	1/2"	-	2"	1 1/2"	ELKAY #EZSTLBC; WALL MOUNTED, BI-LEVEL BARRIER-FREE, NO LEAD WATER COOLER, STAINLESS STEEL CABINET, STAINLESS STEEL TOP WITH BUFFED SATIN FINISH, FLEXIGUARD SAFETY BUBBLER, SELF CLOSING FRONT AND SIDE PUSH BARS COMPLETE WITH APRON FOR UPPER FOUNTAIN. SUPPLY: CHICAGO #1006; 3/8-INCH I.P.S. WITH 3/8-INCH O.D. 12-INCH LONG FLEXIBLE RISER, CHROME PLATED. P-TRAP: MCGUIRE #8902; 1-1/4"x1-1/2"x17 GAUGE, CHROME PLATED CAST BRASS ADJUSTABLE SWIVEL P-TRAP CARRIER. WADE #W-400; TOP AND BOTTOM HANGER PLATE CARRIER. INSTALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS
P-5	SERVICE SINK	1/2"	1/2"	3'	1 1/2"	STERN WILLIAMS "CORLOW" #SBC-1700, 24"x24"x12" CORNER MOP SINK WITH S.S. CAP. T&S #B-0667-RGH FAUCET.
P-6	SINK, ADA	1/2"	1/2"	2"	1 1/2"	ELKAY #LRAD-1517; SINGLE COMPARTMENT, 18-GAUGE, STAINLESS STEEL, SELF-RIMMING, THREE HOLE PUNCHING. FAUCET: ZURN #Z-824BD. STRAINER: MCGUIRE #1151AWC, SUPPLY MCGUIRE #2165; P-TRAP: MCGUIRE #8912 INSULATION: MCGUIRE "PROWRAP" ANTI-MICROBIAL, SATIN WHITE, MOLDED, SEAMLESS INSULATORS, A.D.A. APPROVED.
P-6A	SINK, ADA	1/2"	1/2"	2"	1 1/2"	ELKAY #LRAD-3321-3, 18-GAUGE, TYPE 302 SELF RIM, STAINLESS STEEL 3-HOLE PUNCHING, TWO COMPARTMENT SINK WITH CHICAGO #786-E3XKCP FAUCET. MCGUIRE #1151WC, OFFSET STRAINER AND MCGUIRE #8912 P-TRAP AND MCGUIRE #2165 SUPPLY. INSULATE HOT AND COLD WATER SUPPLY, OFFSET SINK STRAINER, TAILPIECE AND P-TRAP WITH "PROWRAP" OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH A.D.A. REGULATIONS
P-7	SHOWER	1/2"	1/2"	-	-	SYMMONS #1-25-FSBC-X; SHOWER SYSTEM CONSISTING OF CHROME PLATED SAFETY MIX PRESSURE BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, WALL/HAND HELD SHOWER WITH 5' METAL HOSE, 2.5 GPM FLOW RESTRICTOR. INSTALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS
P-8	WASHER BOX	1/2"	1/2"	2"	1 1/2"	GUY GRAY "ECONO BOX" WASHER BOX
FD	FLOOR DRAIN	-	-	2" - 4"	2"	ZURN #ZN-415 SERIES; CAST IRON DRAIN, INTEGRAL REVERSABLE CLAMPING COLLAR, 6-INCH DIAMETER, SATIN NICKEL BRONZE
FS	FLOOR SINK	-	-	2" - 4"	2"	ZURN #ZN-1910-23; CAST IRON DRAIN SQUARE FLOOR SINK, 8"x8"x6" DEEP WITH A.R.E. INTERIOR, ALUMINUM DOME STRAINER, NICKEL BRONZE GRATE, ALUMINUM SEDIMENT BUCKET
WH	WALL HYDRANT	3/4"	-	-	-	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER, ALL BRONZE INTERIOR PARTS, WALL SUPPORTS, REPLACEABLE SEAT WASHER, 3/4" MALE HOSE CONNECTION, ZURN NO. Z1345
SK-1	HAND SINK	1/2"	1/2"	2"	1 1/2"	KOHLER "KINGSTON" #K-2005, WALL HUNG LAVATORY OR APPROVED EQUAL, WITH CHICAGO FAUCET #797-V317 CHROME PLATED WITH WRIST BLADE HANDLES FAUCET, MCGUIRE # 2165-LK CHROME PLATED ANGLE SUPPLY 1/2" IPS X 3/8" OD LOOSE KEY STOP WITH CHROME PLATED ONE PIECE ESCUTCHEON 3/8". INSTALL MILFAB # MC-31 SERIES WALL CARRIER FOR CONSEALED ARM SUPPORT AND TRUBRO HAND-LAV GUARD KIT ON P-TRAP AND BOTH WATER RISERS.
SK-2	THREE COMPARTMENT SINK	3/4"	3/4"	-	-	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR
SK-3	SINK	1/2"	1/2"	2"	1 1/2"	ELKAY #LRAD-1517; SINGLE COMPARTMENT, 18-GAUGE, STAINLESS STEEL, SELF-RIMMING, THREE HOLE PUNCHING. FAUCET: CHICAGO FAUCET #786-GN2FC. STRAINER: MCGUIRE #1151AWC, SUPPLY MCGUIRE #2165; P-TRAP: MCGUIRE #8912 INSULATION: MCGUIRE "PROWRAP" ANTI-MICROBIAL, SATIN WHITE, MOLDED, SEAMLESS INSULATORS, A.D.A. APPROVED.
	BAPTISTRY					MODEL #110, HEATING AND CIRCULATING SYSTEM, FILL FAUCET , AND DRAIN / OVERFLOW BY: SUPERIOR FIBERGLASS INC. PLUMBING CONTRACTOR TO INSTALL AS PER MANUFACTURER REQUIREMENTS

WATER HEATER SCHEDULE									
MARK	RECOVERY		STORAGE (GALLONS)	LINING	MAXIMUM INPUT		ELECTRICAL		REMARKS
	GPH	RISE (F)			FUEL	CFH	VOLTS/PH/HZ.	KW	
EWH-1	27	60	50	GLASS	ELEC	—	120/1/60	4	A.O. SMITH DEL-50
EWH-2	17	60	30	GLASS	ELEC	—	120/1/60	2.5	A.O. SMITH DEL-30

TRAP PRIMER SCHEDULE			
MARK	NO. OF DRAINS	DISTRIBUTION UNIT WITH OUTLETS	
TP-1	1	--	
TP-2	2	2	
TP-3	3	3	
TP-4	4	4	
NOTE:			
1.) PRESSURE DROP ACTIVATED.			
2.) AIR GAP/VACUUM BREAKER.			
3.) MIFAB NO. M-500 SERIES, P.P.P. NO. PR-500, APPROVED EQUAL.			
4.) INSTALL AT 48" A.F.F.			



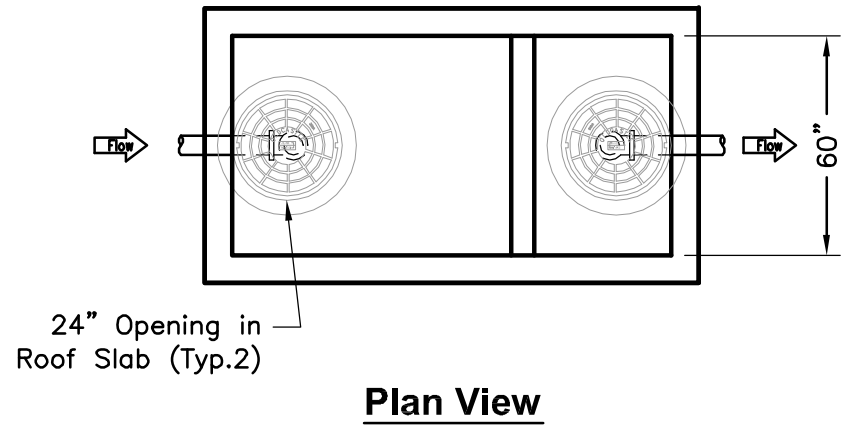
1 COLD WATER ENTRY DETAIL
NOT TO SCALE
SLAB ON GRADE



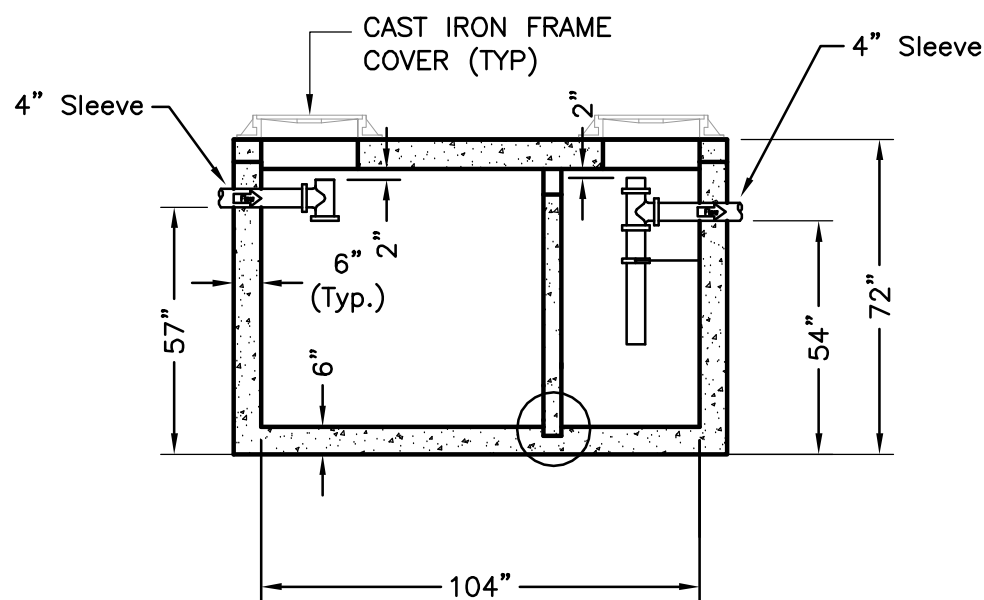
2 YARD CLEANOUT DETAIL TWO-WAY
NOT TO SCALE

GREASE TRAP SCHEDULE						
MARK	SUPPLIED QTY.	G.C. OWN.	INSTALL. G.C. OWN.	ITEM DESCRIPTION	MANUF. MODEL NO. / REMARKS	UTILITIES CW HW DR
GI-1	1	•	•	GREASE INTECEPTOR ①	PARK #GT-1000 1000 GALLON CAPACITY	- - 4"

① GREASE INTERCEPTOR SHALL BE INSTALLED AS PER LOCAL AND CITY CODES.



Plan View



Elevation

3 GREASE INTERCEPTOR DETAIL
NOT TO SCALE

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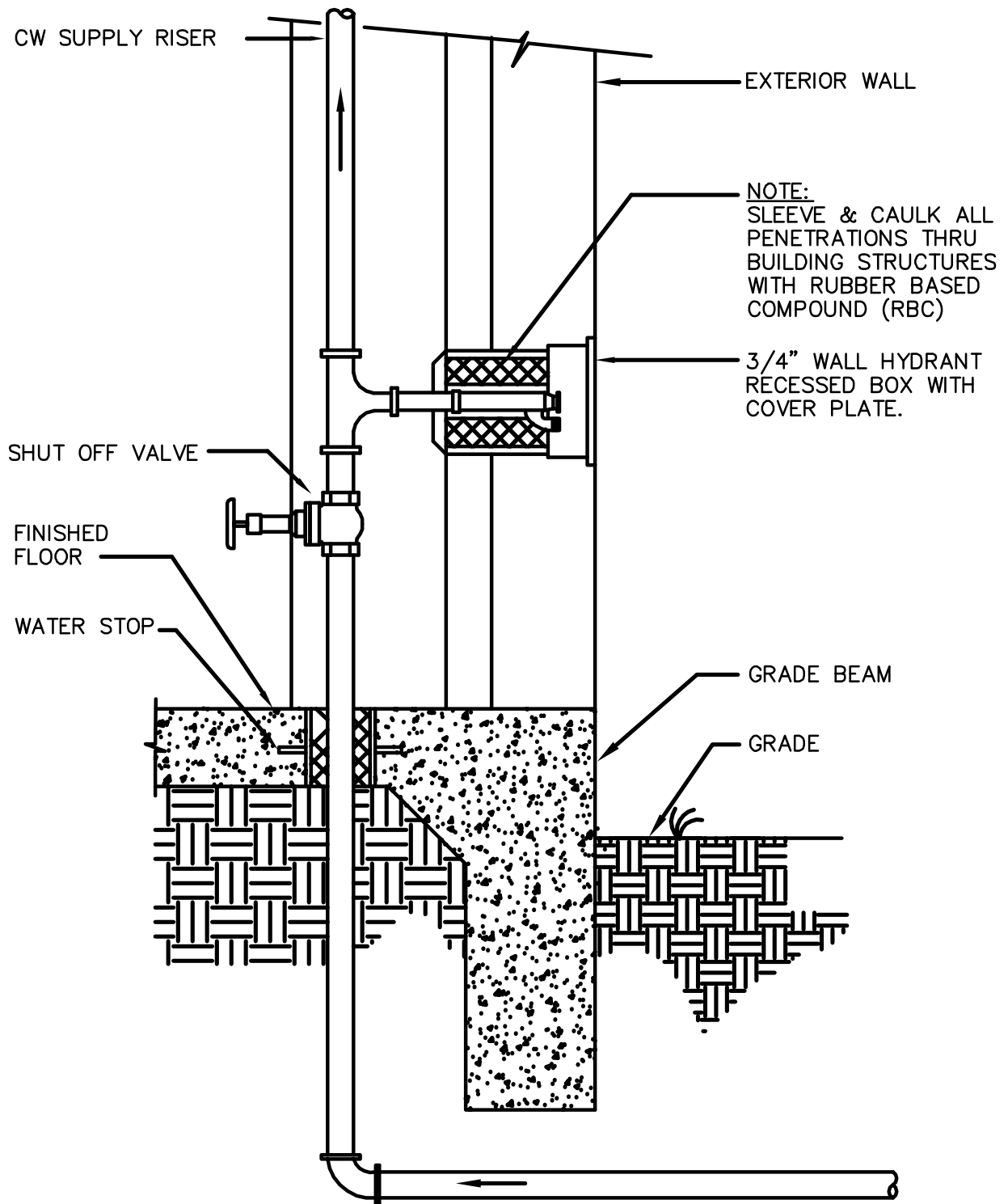
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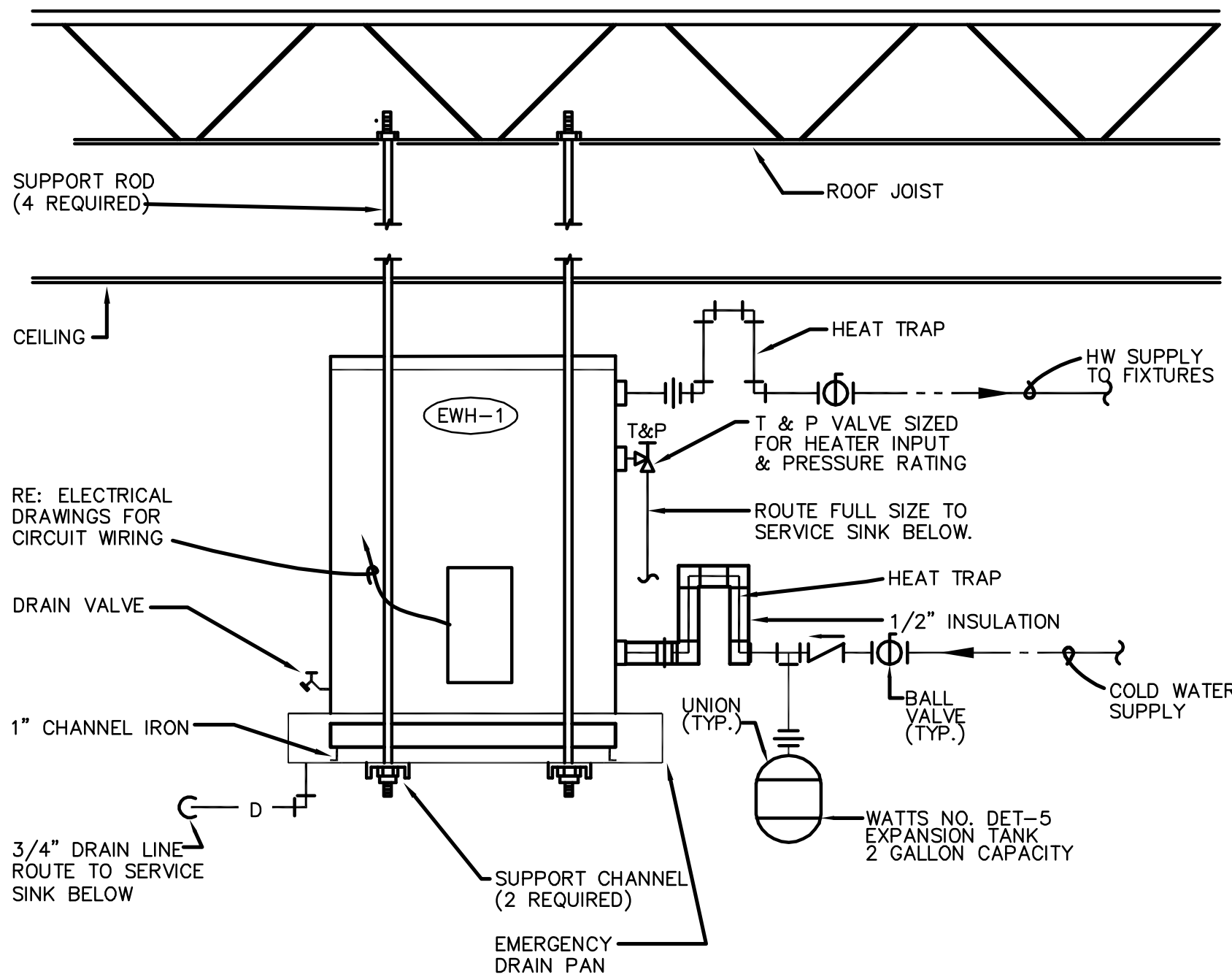
SHEET NUMBER
P2.2

PLUMBING FIXTURE SCHEDULE						
MARK	ITEM	CW	HW	DRAIN	VENT	REMARKS
P-1	WATER CLOSET	1/2"	--	4"	2"	AMERICAN STANDARD #2898.012 CADET 14 3/4" HIGH, #4112.800 TANK TYPE, FLOOR SET, 1.6 GPF, OLSONITE #95 OPEN FRONT SEAT LESS COVER, TANK COVER LOCKING DEVICE, LOOSE KEY ANGLE STOP.
P-1A	WATER CLOSET, ADA	1/2"	--	4"	2"	AMERICAN STANDARD #2998.012 CADET 16 1/2" HIGH, #4112.800 TANK TYPE, FLOOR SET, 1.6 GPF, OLSONITE #95 OPEN FRONT SEAT LESS COVER, TANK COVER LOCKING DEVICE, LOOSE KEY ANGLE STOP. INSTALL IN ACCORDANCE W/ADA REQUIREMENTS
P-2	LAVATORY, OVAL, ADA	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD #0476.028 "AQUALYN" ADA COUNTERTOP LAVATORY: 'ADA' SELF RIMMING WITH 4" O.C. FAUCET HOLES. PROVIDE WITH AMERICAN STANDARD NO. 2275.500 CENTERSET LAVATORY FITTING, ADA APPROVED, WITH POP UP DRAIN & LEVER HANDLES FURNISH W/SUPPLIES & STOPS.
P-3	URINAL, ADA	3/4"		2"	1 1/2"	AMERICAN STANDARD # 6501.010 "WASHBROOK", WALL MOUNTED, SLOAN REGAL # 186 FLUSH VALVE. INSTALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS
P-4	DRINKING FOUNTAIN	1/2"	-	2"	1 1/2"	ELKAY #EZSTL8C; WALL MOUNTED, BI-LEVEL BARRIER-FREE, NO LEAD WATER COOLER, STAINLESS STEEL CABINET, STAINLESS STEEL TOP WITH BUFFED SATIN FINISH, FLEXIGUARD SAFETY BUBBLER, SELF CLOSING FRONT AND SIDE PUSH BARS COMPLETE WITH APRON FOR UPPER FOUNTAIN. SUPPLY: CHICAGO #1006; 3/8-INCH I.P.S. WITH 3/8-INCH O.D. 12-INCH LONG FLEXIBLE RISER, CHROME PLATED. P-TRAP: MCGUIRE #8902; 1-1/4"x1-1/2"x17 GAUGE, CHROME PLATED CAST BRASS ADJUSTABLE SWIVEL P-TRAP CARRIER: WADE #W-400; TOP AND BOTTOM HANGER PLATE CARRIER. INSTALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS
P-5	SERVICE SINK	1/2"	1/2"	3'	1 1/2"	STERN WILLIAMS "CORLOW" #SBC-1700, 24"x24"x12" CORNER MOP SINK WITH S.S. CAP. T&S #B-0667-RGH FAUCET.
FD	FLOOR DRAIN	-	-	2" - 4"	2"	ZURN #ZN-415 SERIES; CAST IRON DRAIN, INTEGRAL REVERSABLE CLAMPING COLLAR, 6-INCH DIAMETER, SATIN NICKEL BRONZE
WH	WALLL HYDRANT	3/4"	-	-	-	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER, ALL BRONZE INTERIOR PARTS, WALL SUPPORTS, REPLACEABLE SEAT WASHER, 3/4" MALE HOSE CONNECTION, ZURN NO. Z1345

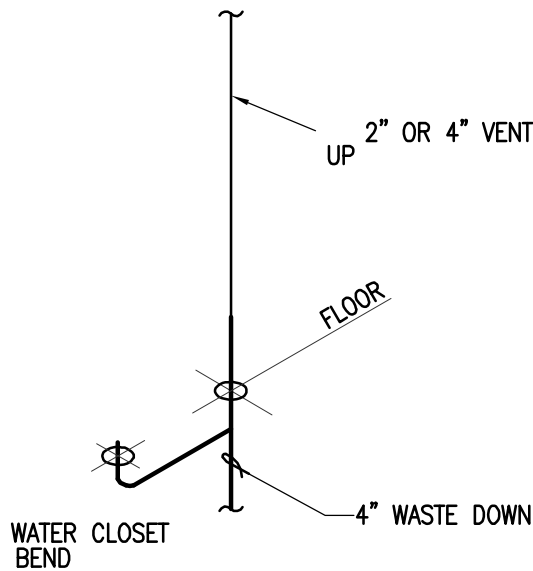
WATER HEATER SCHEDULE									
MARK	RECOVERY		STORAGE (GALLONS)	LINING	MAXIMUM INPUT		ELECTRICAL		REMARKS
	GPH	RISE (F)			FUEL	CFH	VOLTS/PH/HZ.	KW	
EWH-1	17	60	30	GLASS	ELEC	-	120/1/60	2.5	A.O. SMITH DEL-30



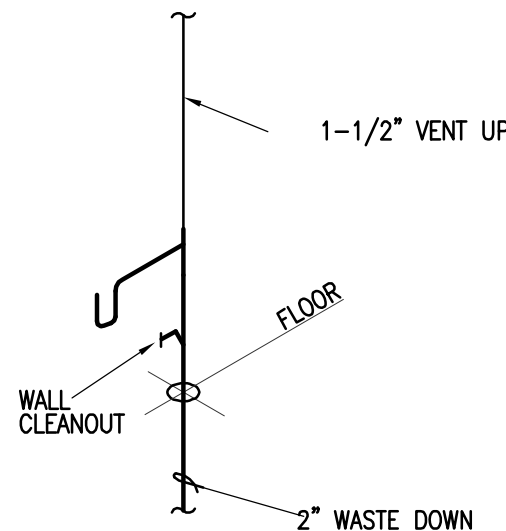
1 COLD WATER ENTRY DETAIL
NOT TO SCALE



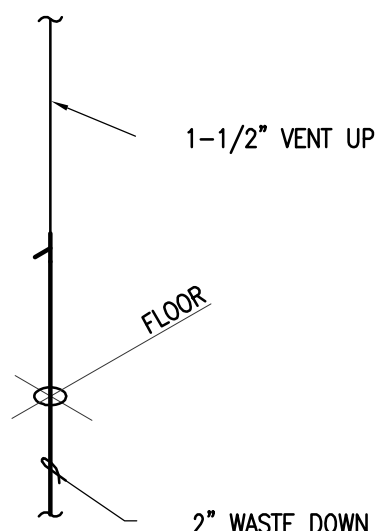
2 ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



3 RISER - WATER CLOSET
SCALE:NOT TO SCALE



4 RISER - LAVATORY
SCALE:NOT TO SCALE

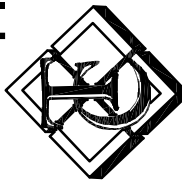


5 RISER - URINAL
SCALE:NOT TO SCALE

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###/###/###	(INT'S)

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