

EXPANSION OF DOCTORS INLET ELEMENTARY CAFETERIA

2634 C.R. 220, MIDDLEBURG, FL 32068

SCHOOL DISTRICT OF CLAY COUNTY

SDCC PROJECT No. C-7-18/19



ADDISON G. DAVIS * SUPERINTENDENT OF SCHOOLS

JANICE KEREKES

DISTRICT 1 BOARD MEMBER

CAROL STUDDARD

DISTRICT 2 BOARD MEMBER

TINA BULLOCK

DISTRICT 3 BOARD MEMBER

MARY BOLLA

DISTRICT 4 BOARD MEMBER

ASHLEY GILHOUSEN

DISTRICT 5 BOARD MEMBER

PHASE III FINAL BID DOCUMENTS

ARCHITECT

As required by Florida Building Code section 110.8.4.4, I hereby certify to the best of my knowledge, information and belief, the plans and specifications comply with the applicable minimum building codes and the applicable fire-safety standards as determined by the local authority in accordance with this section and Chapter 633, Florida Statutes.

Brian O. Boatright, Project Architect
Florida Architectural License No. AR0012659

CIVIL ENGINEER

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Allyn C. Tidball, Project Civil Engineer
Florida Professional Engineer No. PE 33532

STRUCTURAL ENGINEER

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John H. Southard, Project Structural Engineer
Florida Professional Engineer No. PE 57599

MECHANICAL/PLUMBING ENGINEER

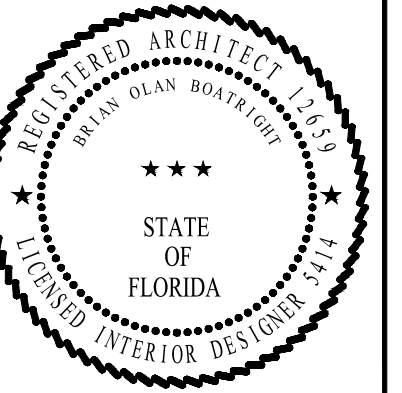
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W. Michael Gregory, Project Mechanical/Plumbing Engineer
Florida Professional Engineer No. PE 46607

ELECTRICAL ENGINEER

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J. Bryan Shaffer, Project Electrical Engineer
Florida Professional Engineer No. PE 58168



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(904) 714-5188
Cert. of Authorization # 28163

SHAFFER
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12058 San Jose Blvd, Suite 502
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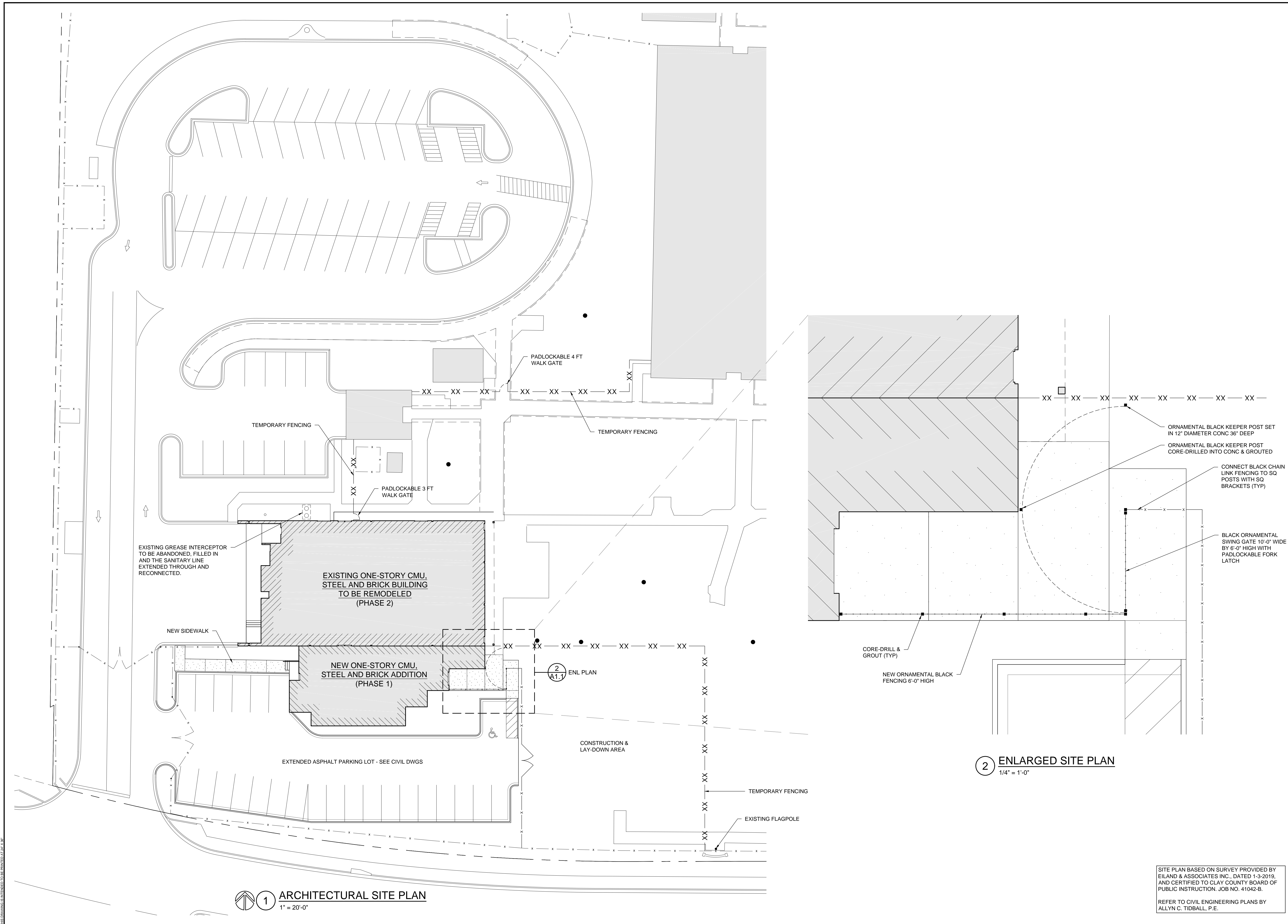
SOUTHARD
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FL CA# 9195
southardengineering@yahoo.com

EXPANSION OF
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2634 C.R. 220, MIDDLEBURG, FL 32068

REVISIONS		
NO.	DATE	COMMENT
1	10-5-19	ADD 3
2	10-9-19	ADD 4

JOB NO. 182000
DATE 9-12-19
DRAWN BY BOB
CHECKED BY BOB

A0.1

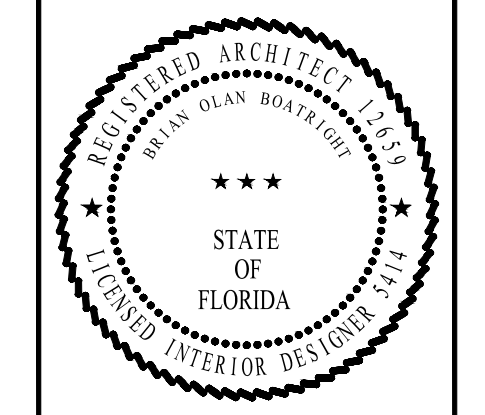


1 ARCHITECTURAL SITE PLAN
1" = 20'-0"

2 ENLARGED SITE PLAN
1/4" = 1'-0"

SITE PLAN BASED ON SURVEY PROVIDED BY EILAND & ASSOCIATES INC., DATED 1-3-2019, AND CERTIFIED TO CLAY COUNTY BOARD OF PUBLIC INSTRUCTION. JOB NO. 41042-B.
REFER TO CIVIL ENGINEERING PLANS BY ALLYN C. TIDBALL, P.E.

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ARCHITECT
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bboatright@bboatright.com
FL AC2000031, AR 262810614



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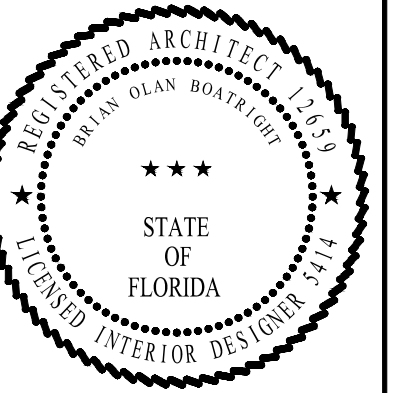
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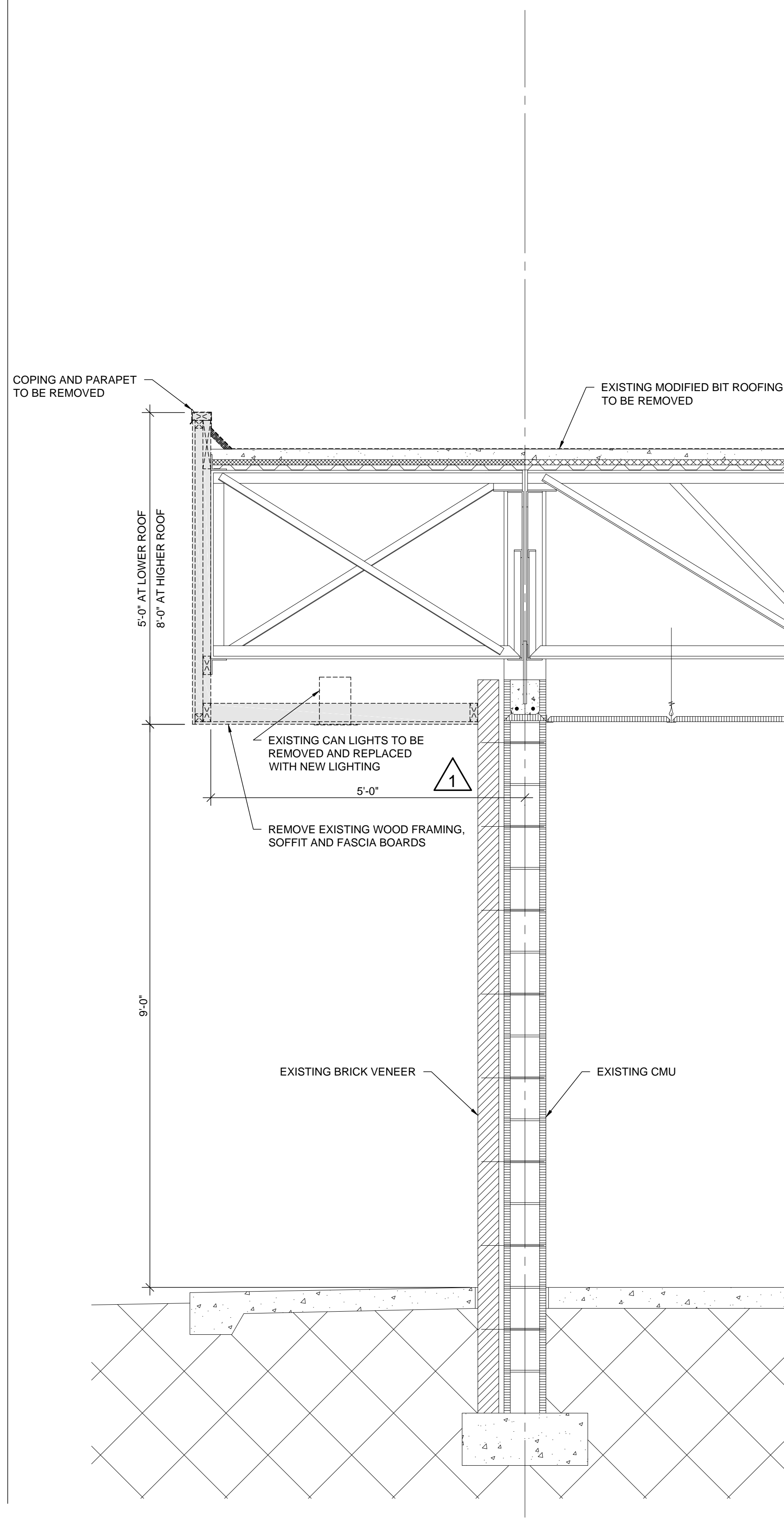
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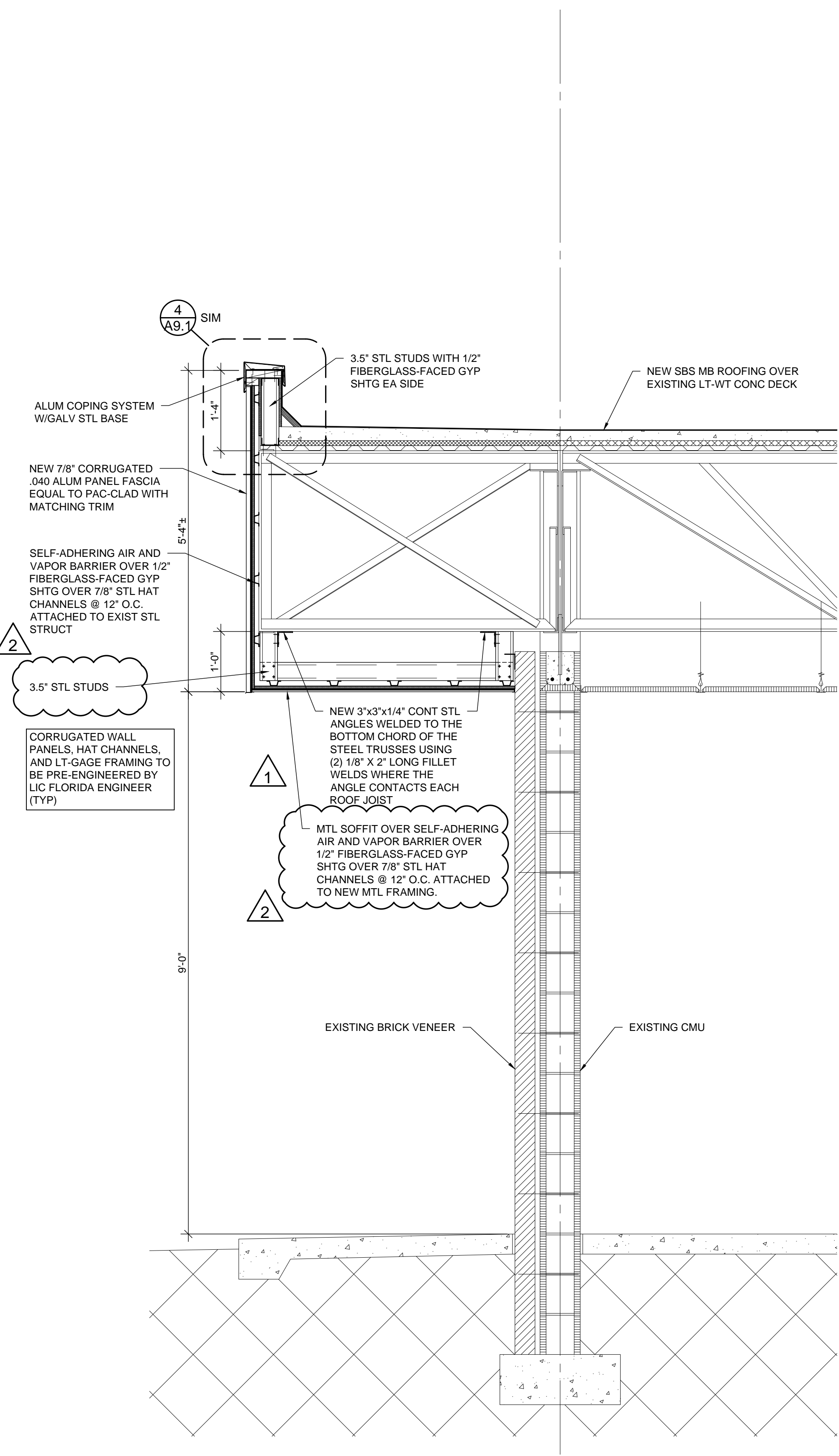
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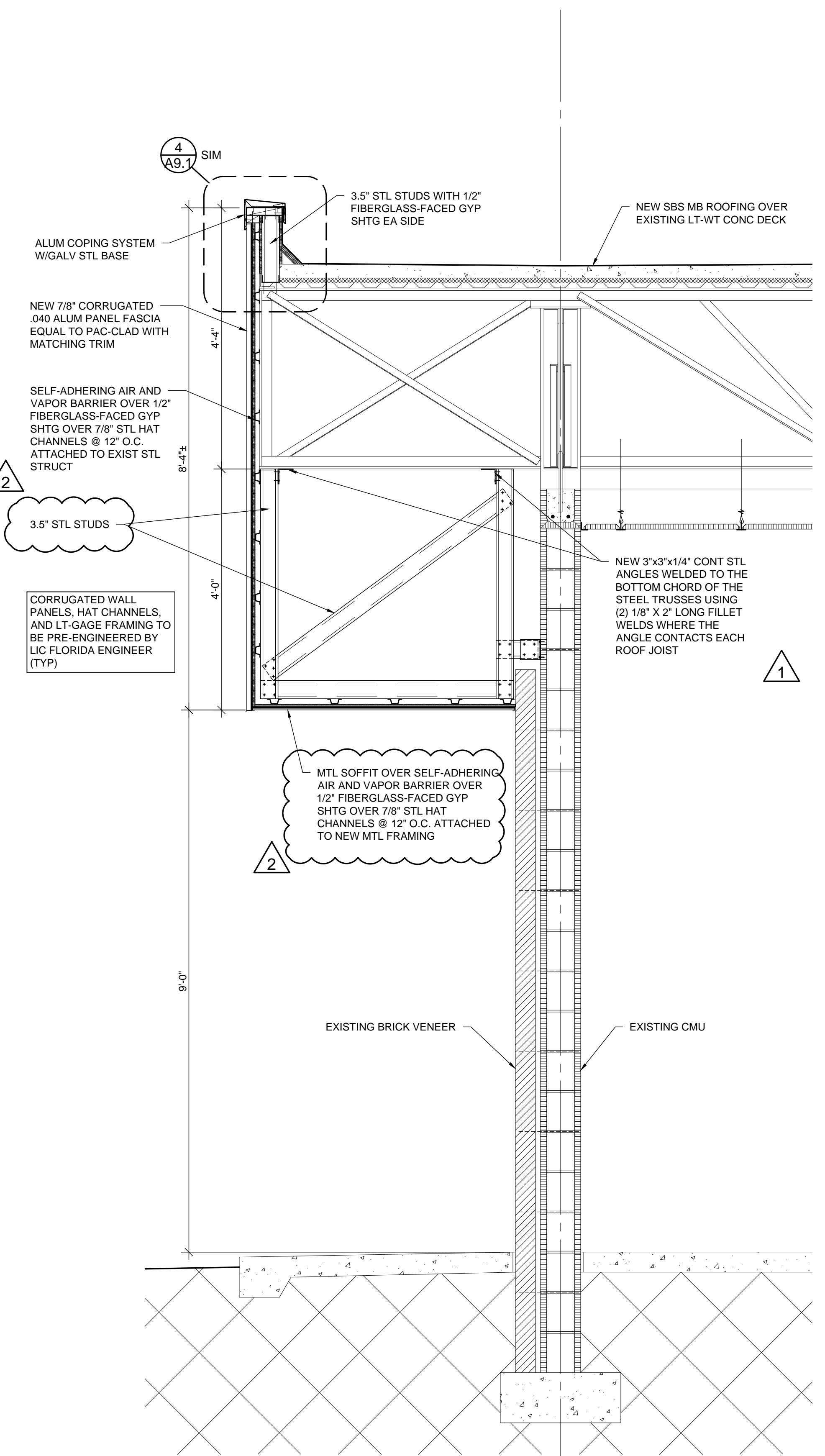
A5.3



7 WALL SECTION - DEMO
3/4" = 1'-0"



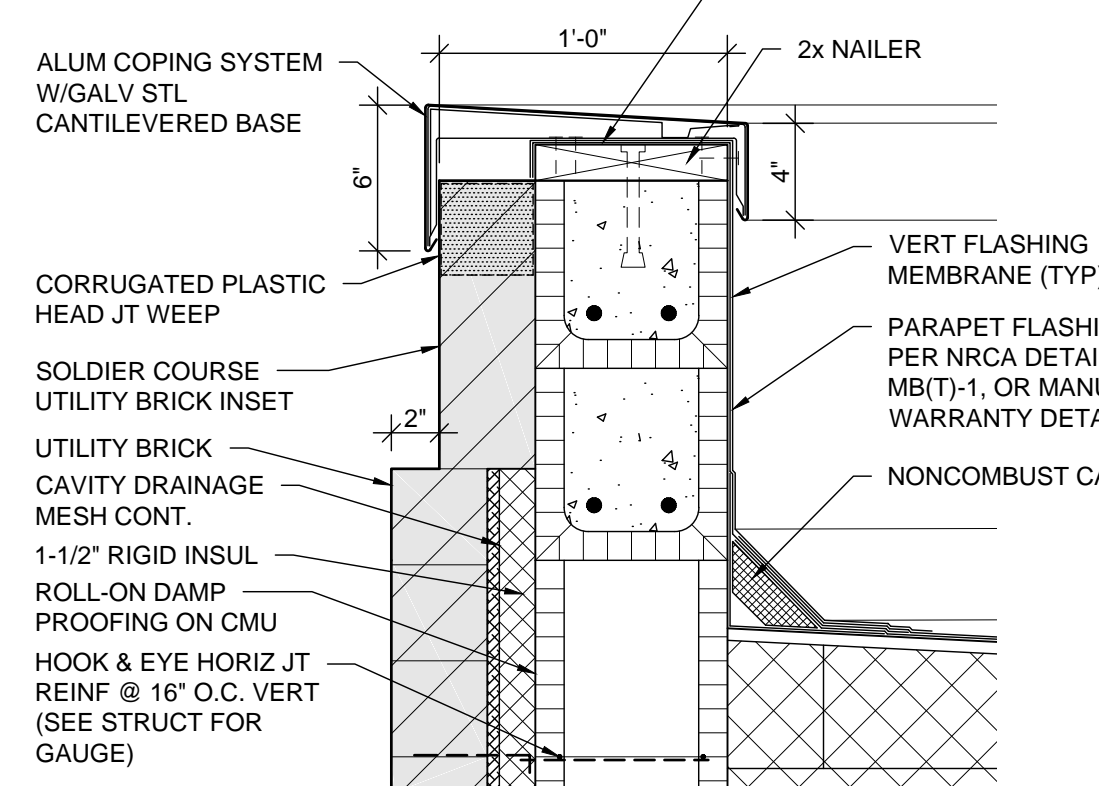
8 WALL SECTION - NEW
3/4" = 1'-0"



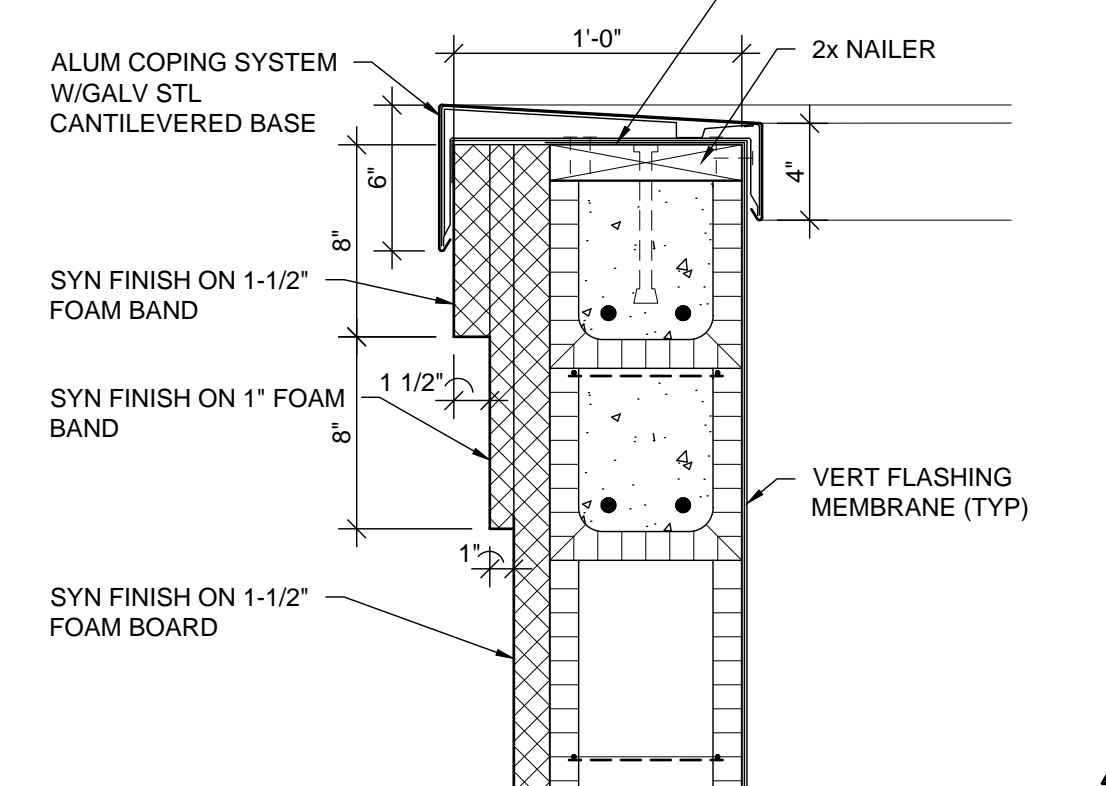
9 WALL SECTION - NEW
3/4" = 1'-0"

THIS DRAWING IS INTENDED TO BE PRINTED AT 24\"/>

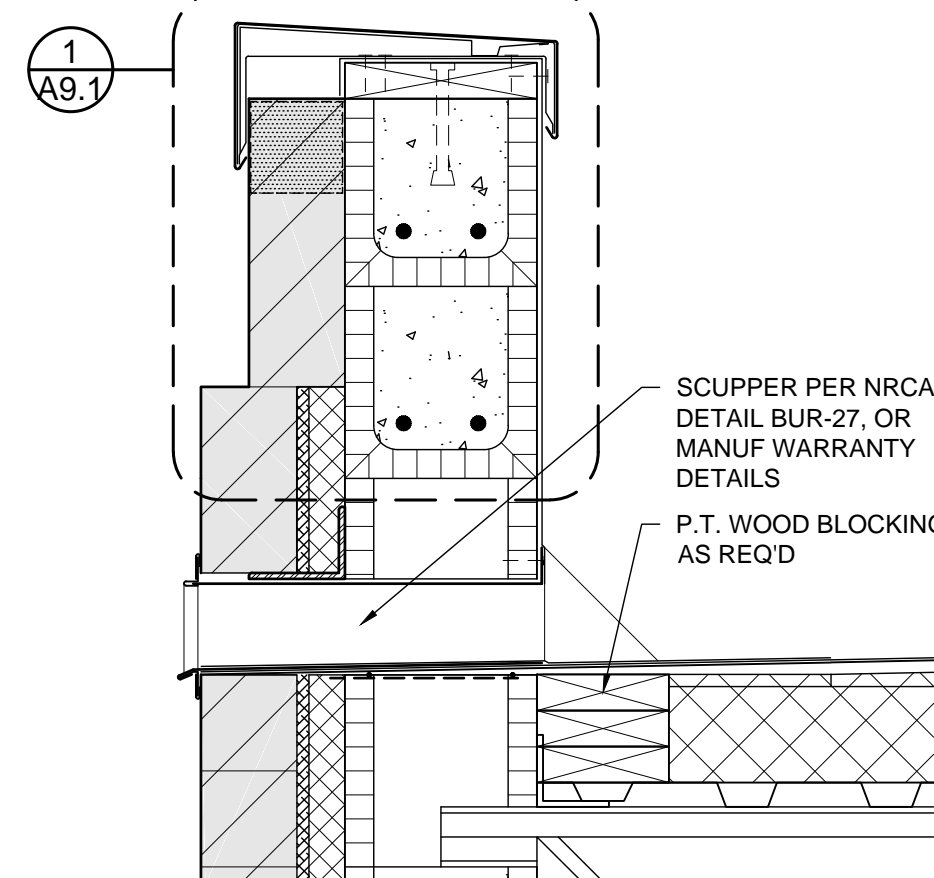
ROOF DETAILS SHALL CONFORM TO MANUF REQUIREMENTS FOR WARRANTY, OR NRCA STANDARDS. ALERT ARCHITECT TO ANY CONFLICTS (TYP FOR ALL ROOF DETS)



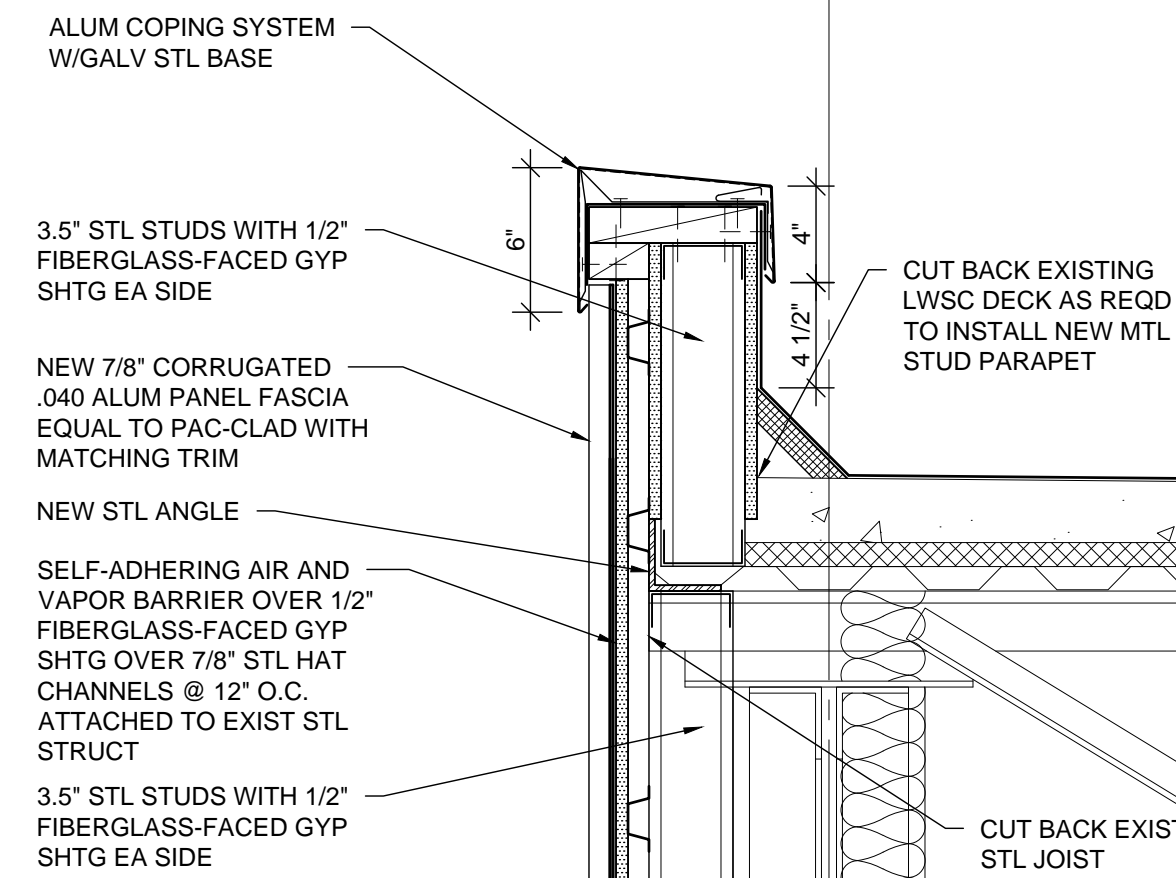
1 COPING @ BRICK VENEER PARAPET
1 1/2" = 1'-0" XREF



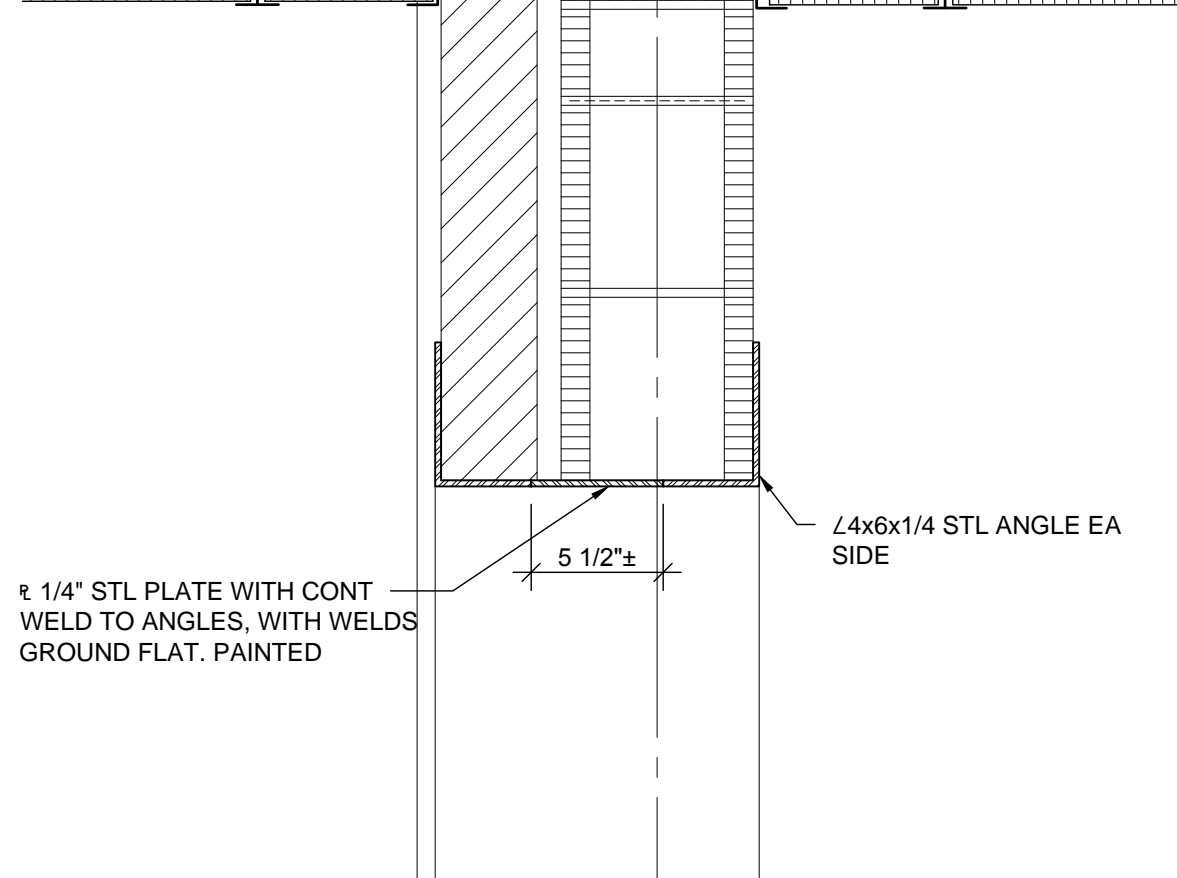
2 COPING @ EIFS PARAPET
1 1/2" = 1'-0" XREF



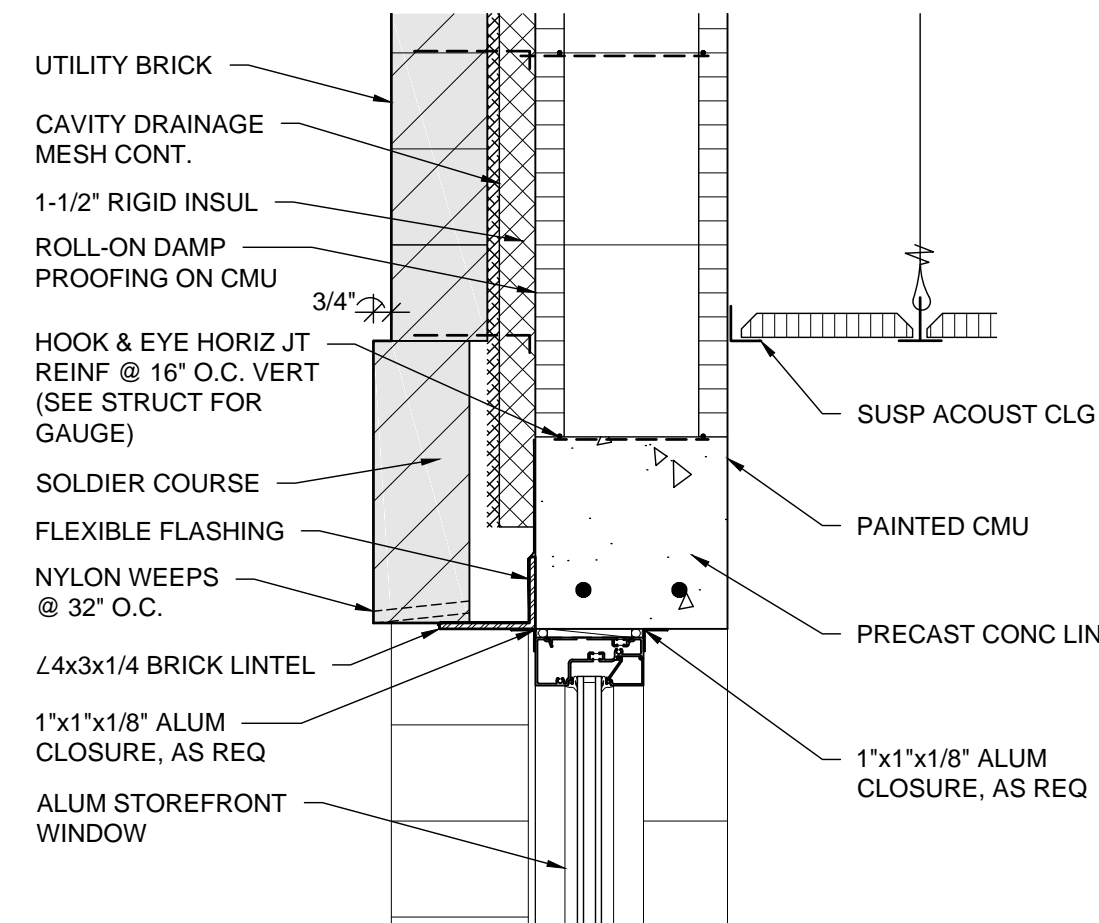
3 SCUPPER
1 1/2" = 1'-0" XREF



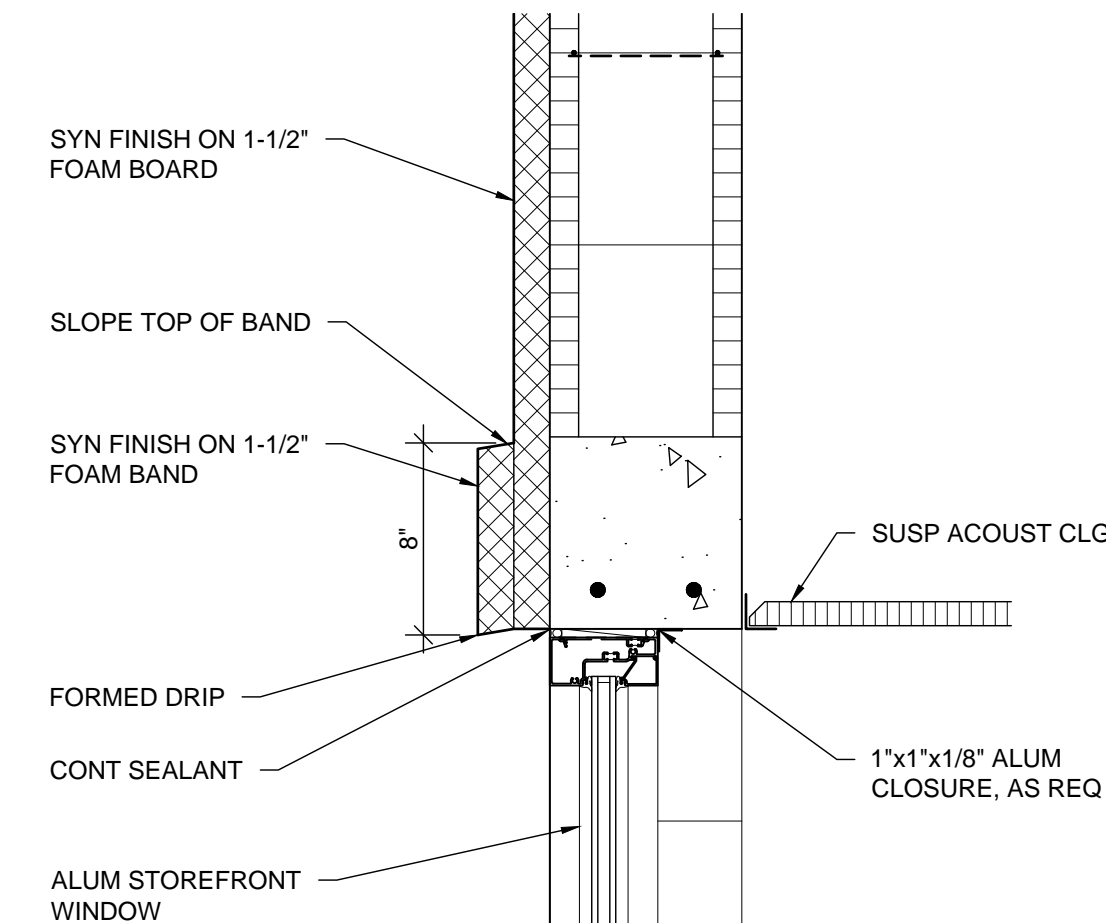
4 COPING @ NEW CORRUGATED FASCIA
1 1/2" = 1'-0" XREF



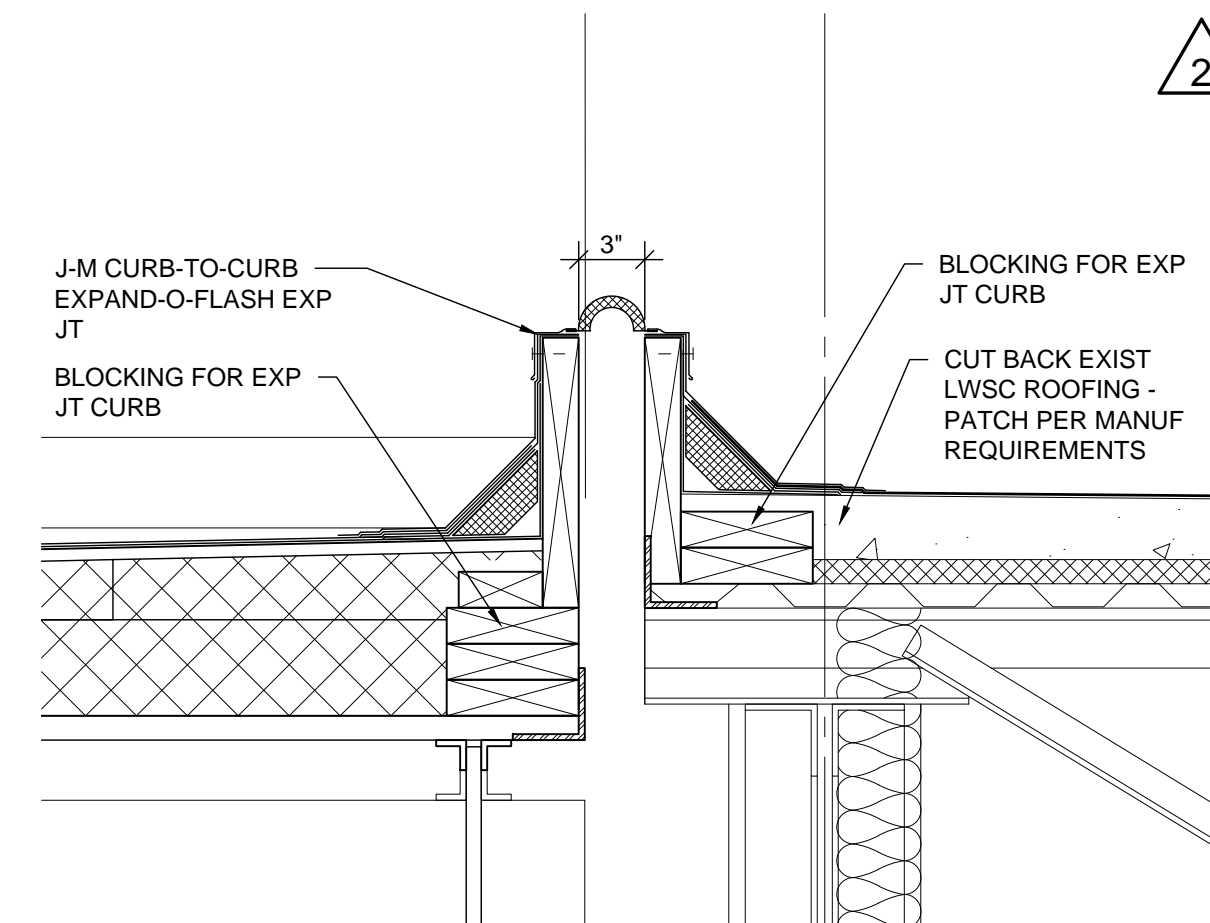
5 HEAD @ CORR CASED OPENING
1 1/2" = 1'-0" XREF



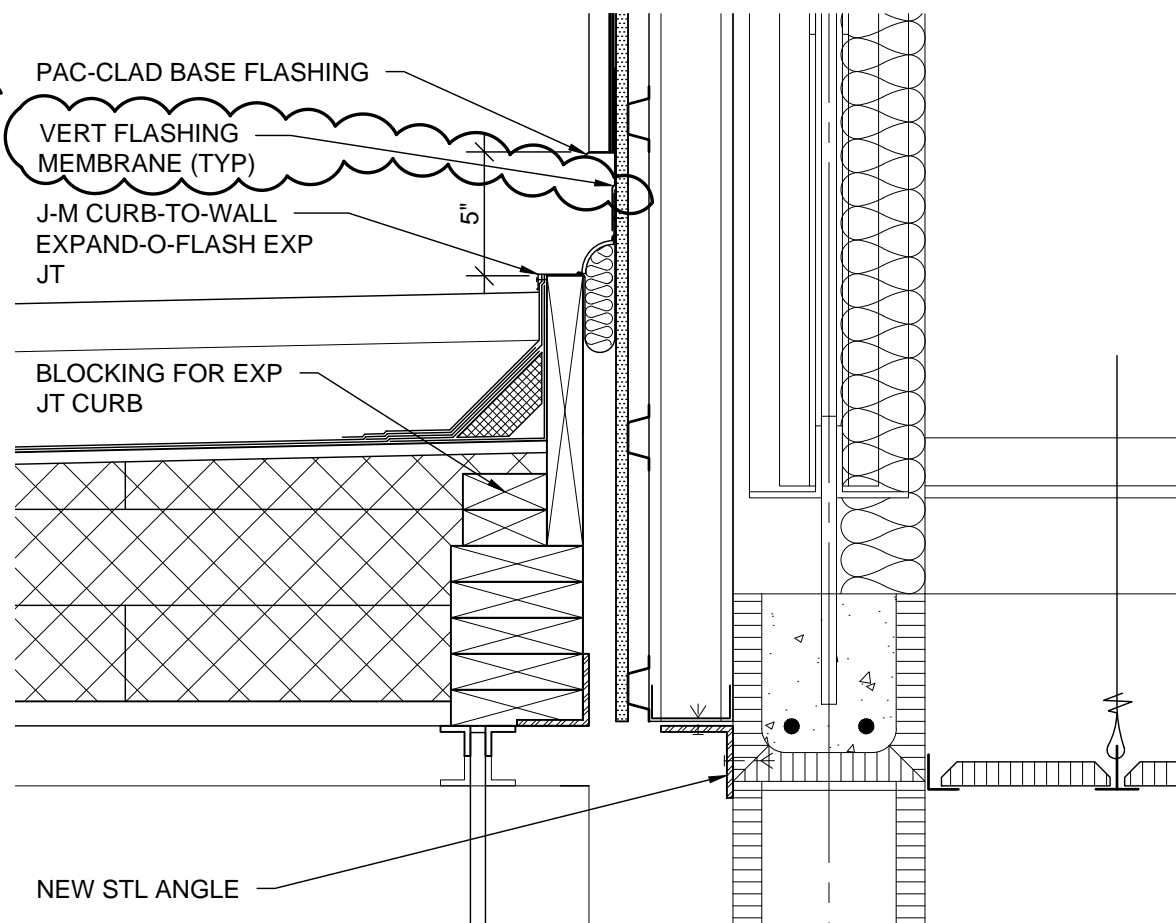
6 WINDOW HEAD @ BRICK VENEER
1 1/2" = 1'-0" XREF



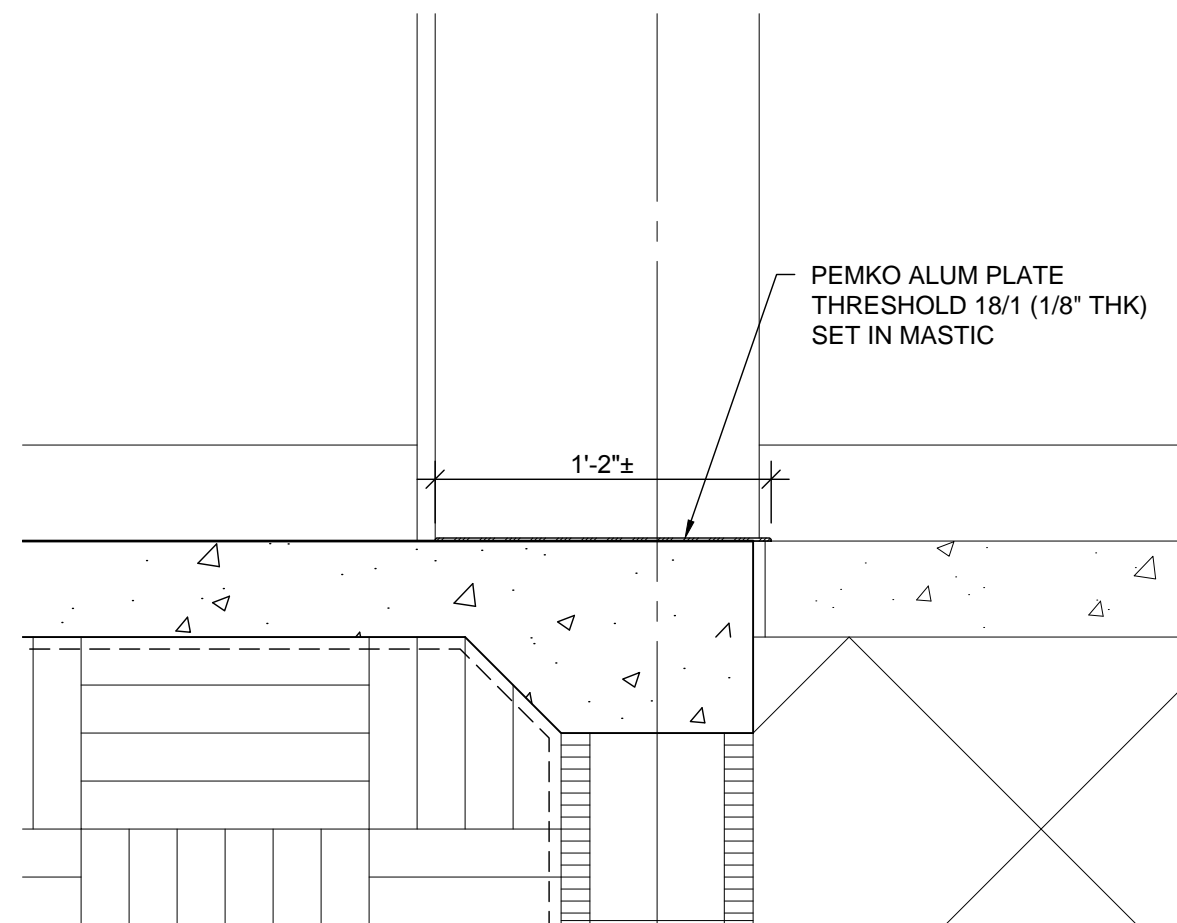
7 WINDOW HEAD @ EIFS
1 1/2" = 1'-0" XREF



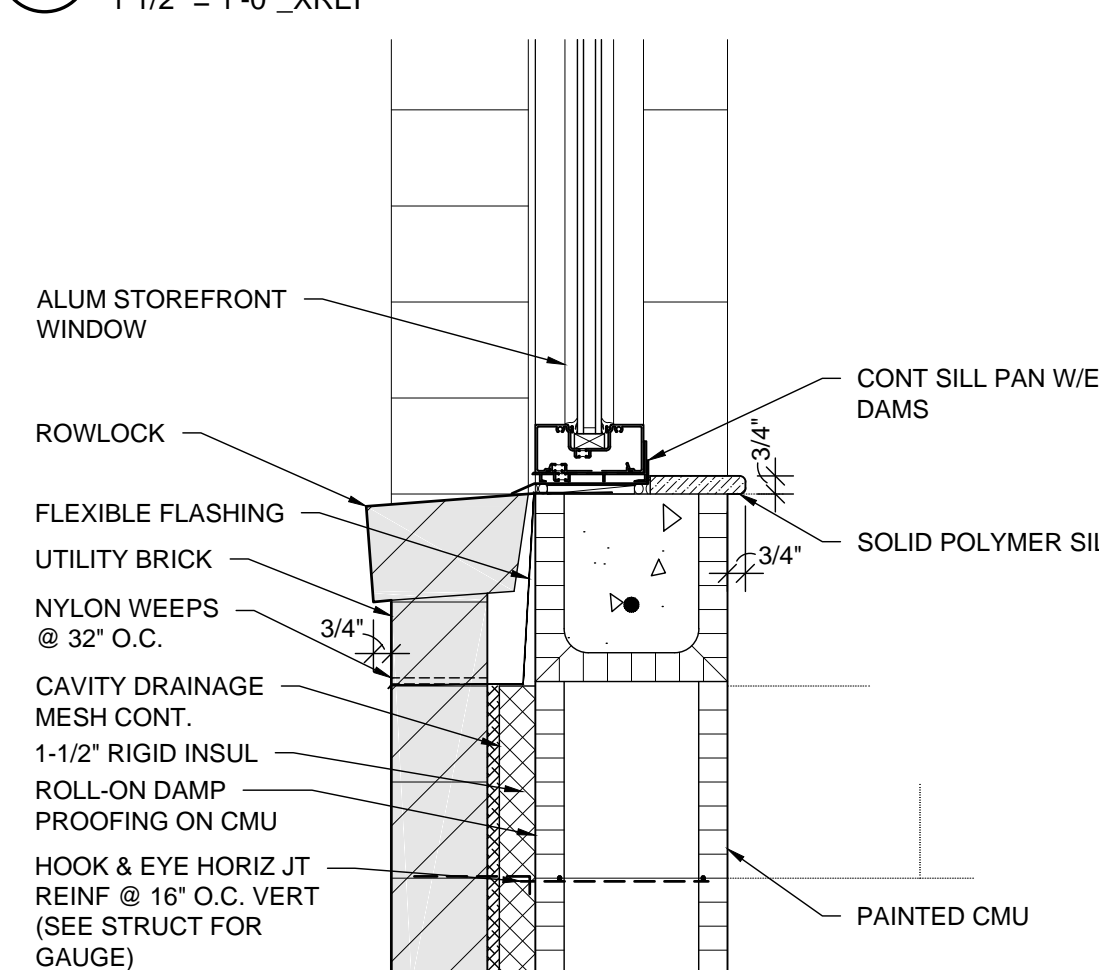
8 EXP JT @ HIGH EXIST ROOF
1 1/2" = 1'-0" XREF



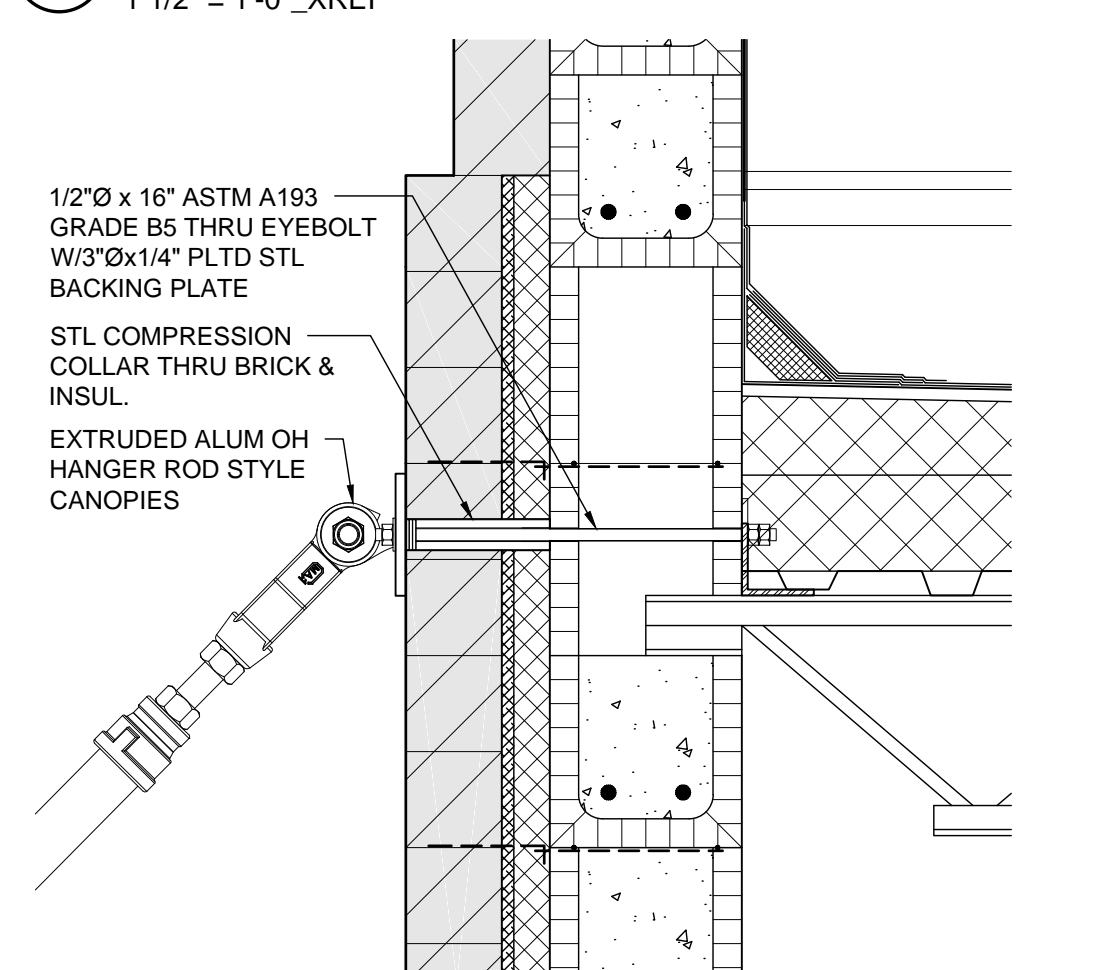
9 ROOF-WALL EXP JT @ CORRUG FASCIA
1 1/2" = 1'-0" XREF



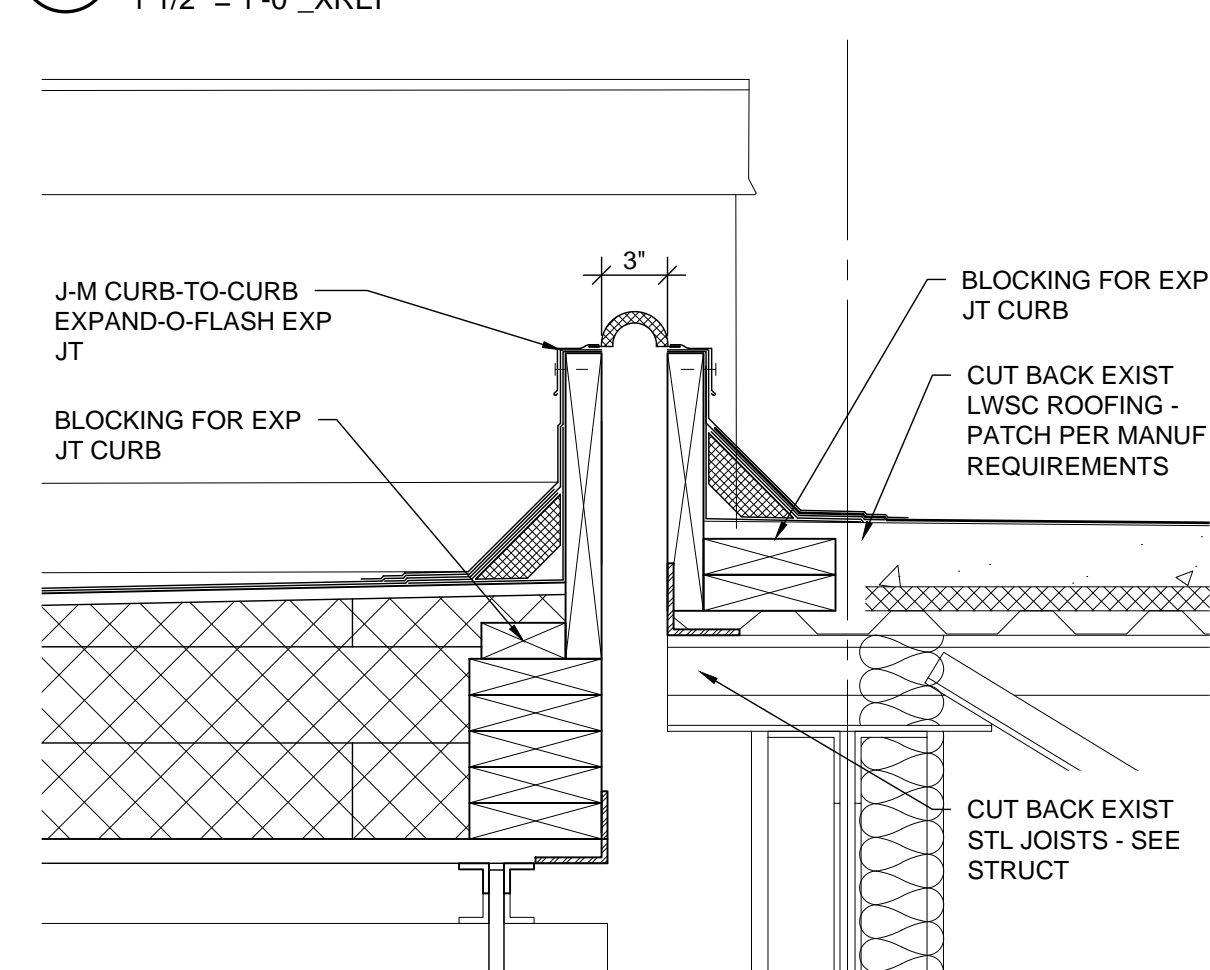
10 THRESHOLD @ CORR CASED OPENING
1 1/2" = 1'-0" XREF



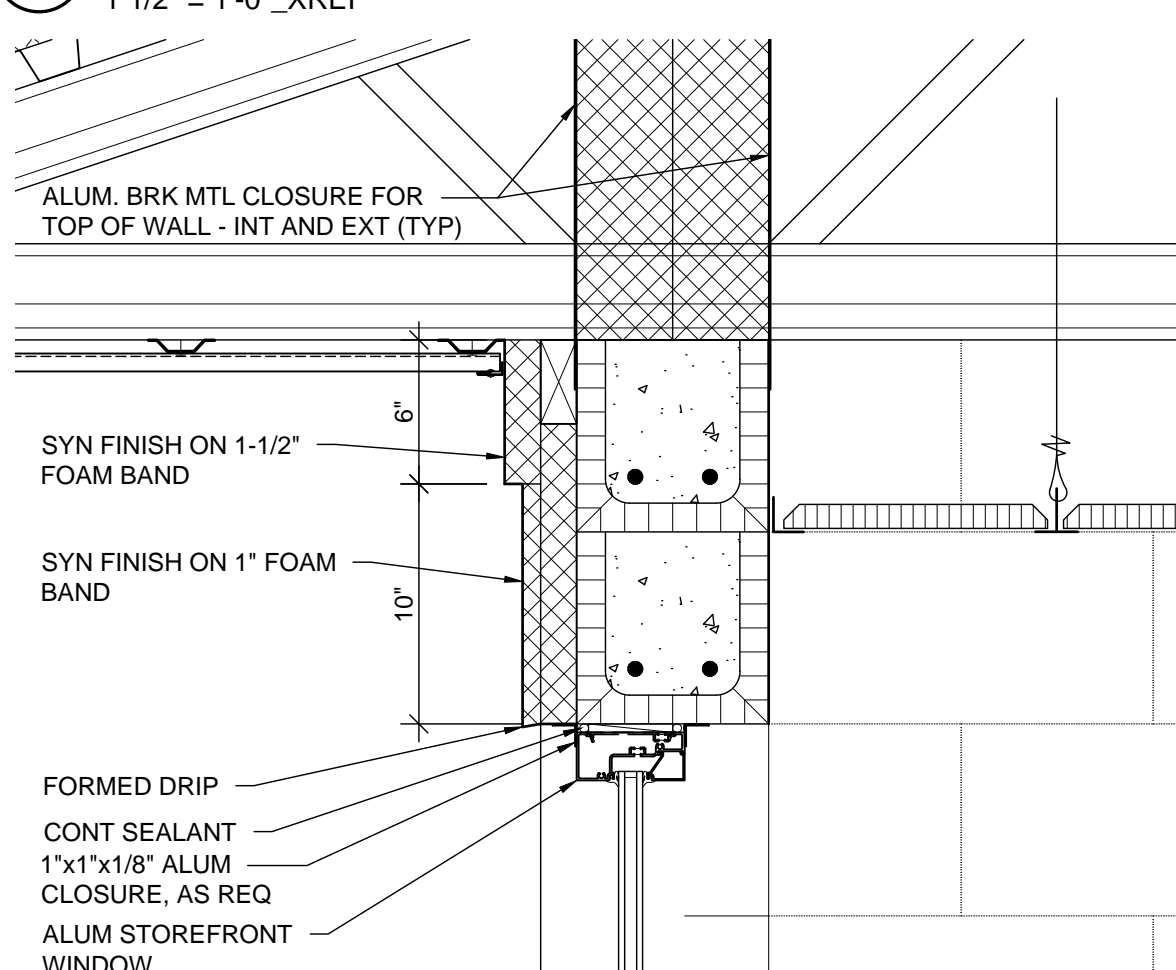
11 WINDOW SILL @ BRICK VENEER
1 1/2" = 1'-0" XREF



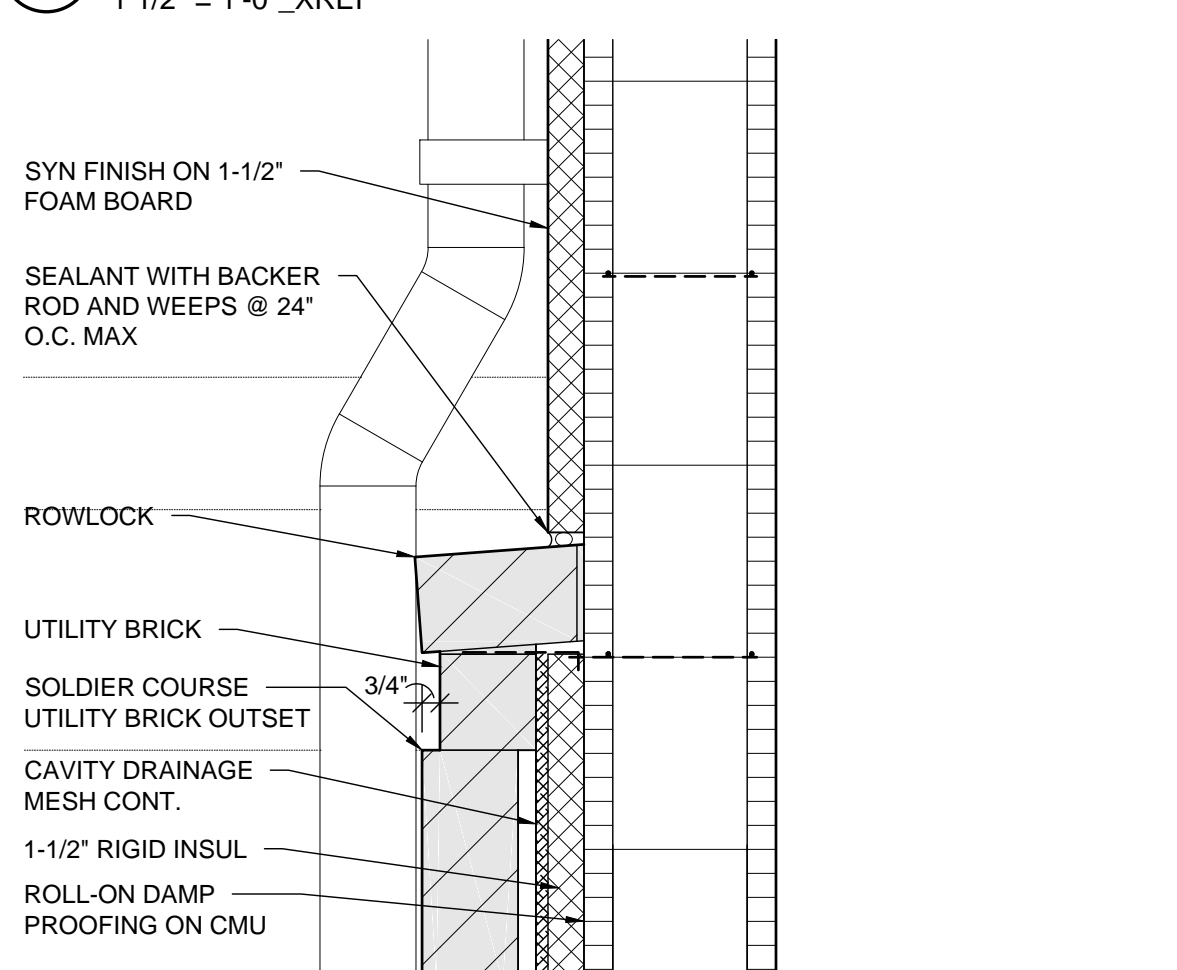
12 CANOPY - HANGER ROD
1 1/2" = 1'-0" XREF



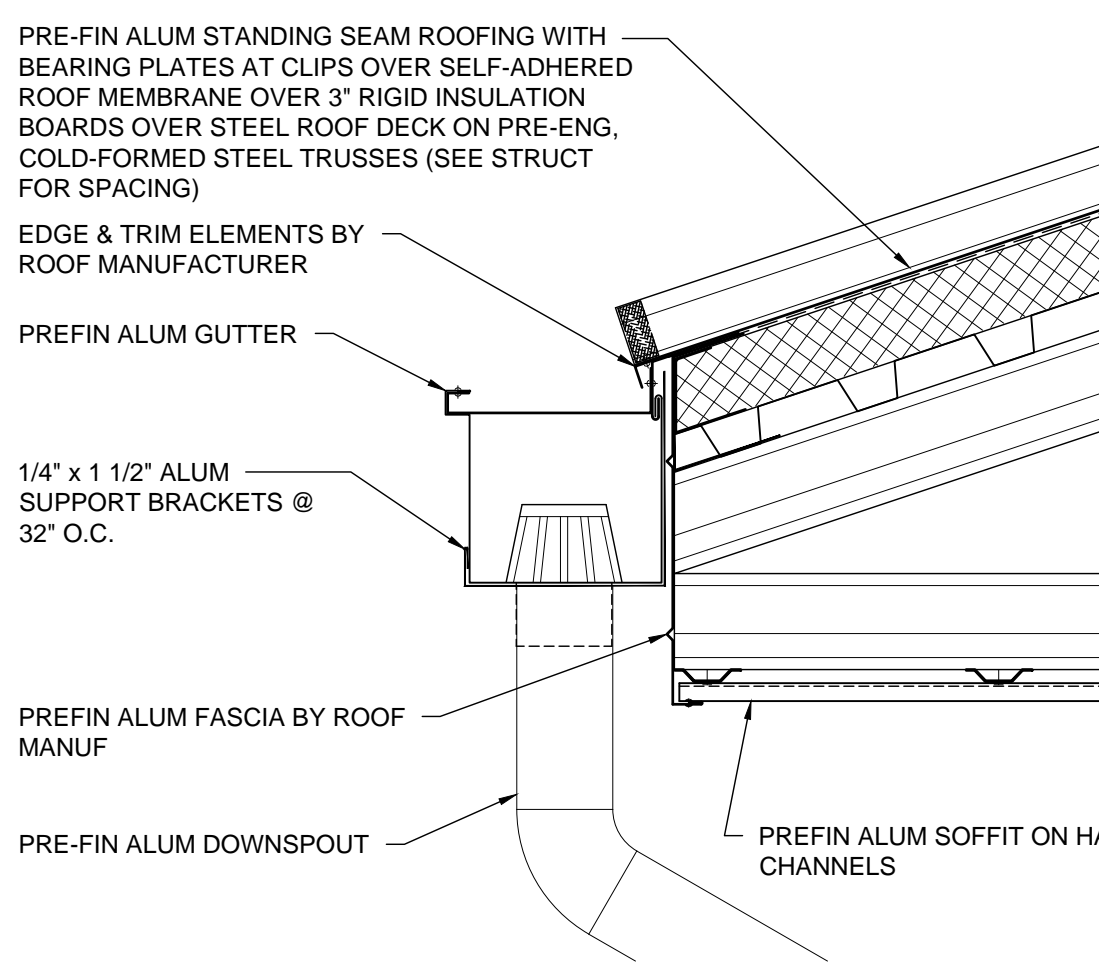
13 EXP JT @ LOW EXIST ROOF
1 1/2" = 1'-0" XREF



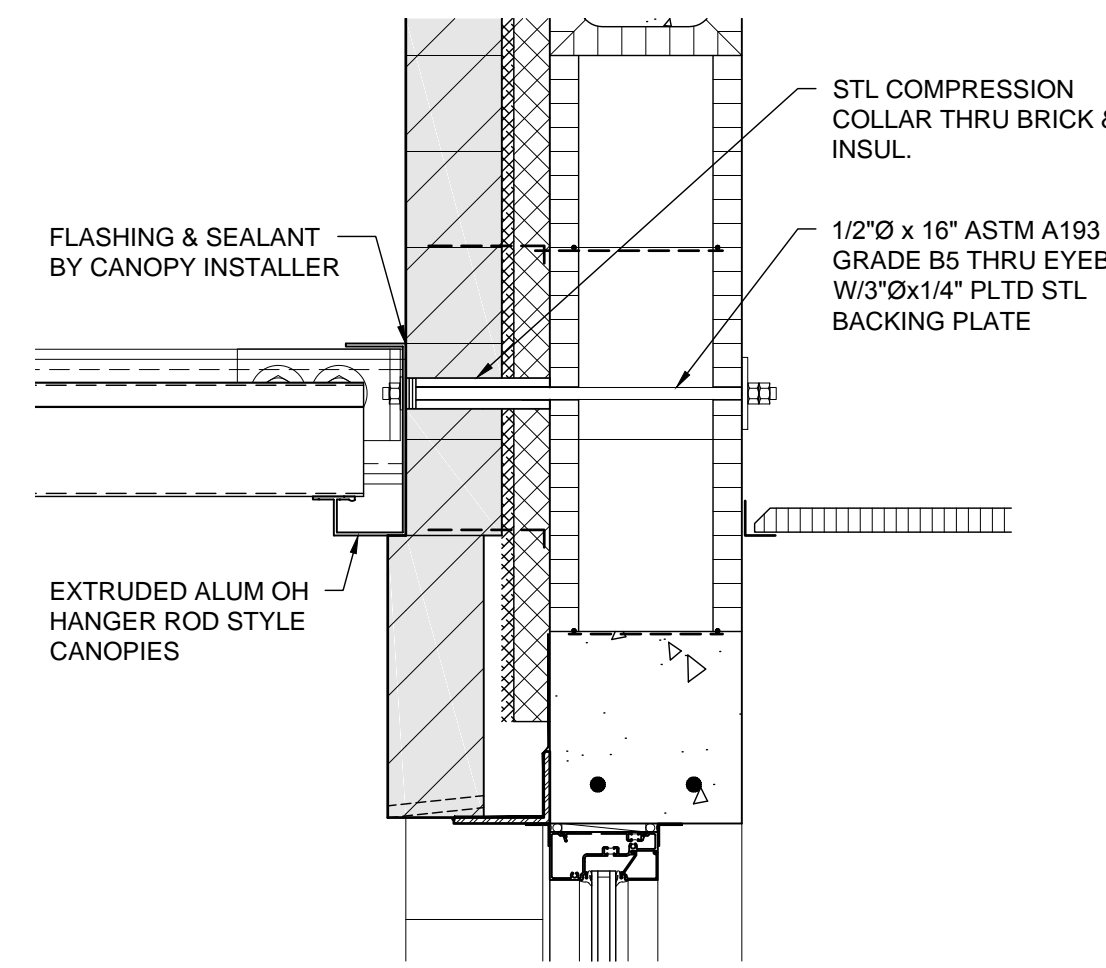
14 TOWER WINDOW HEAD
1 1/2" = 1'-0" XREF



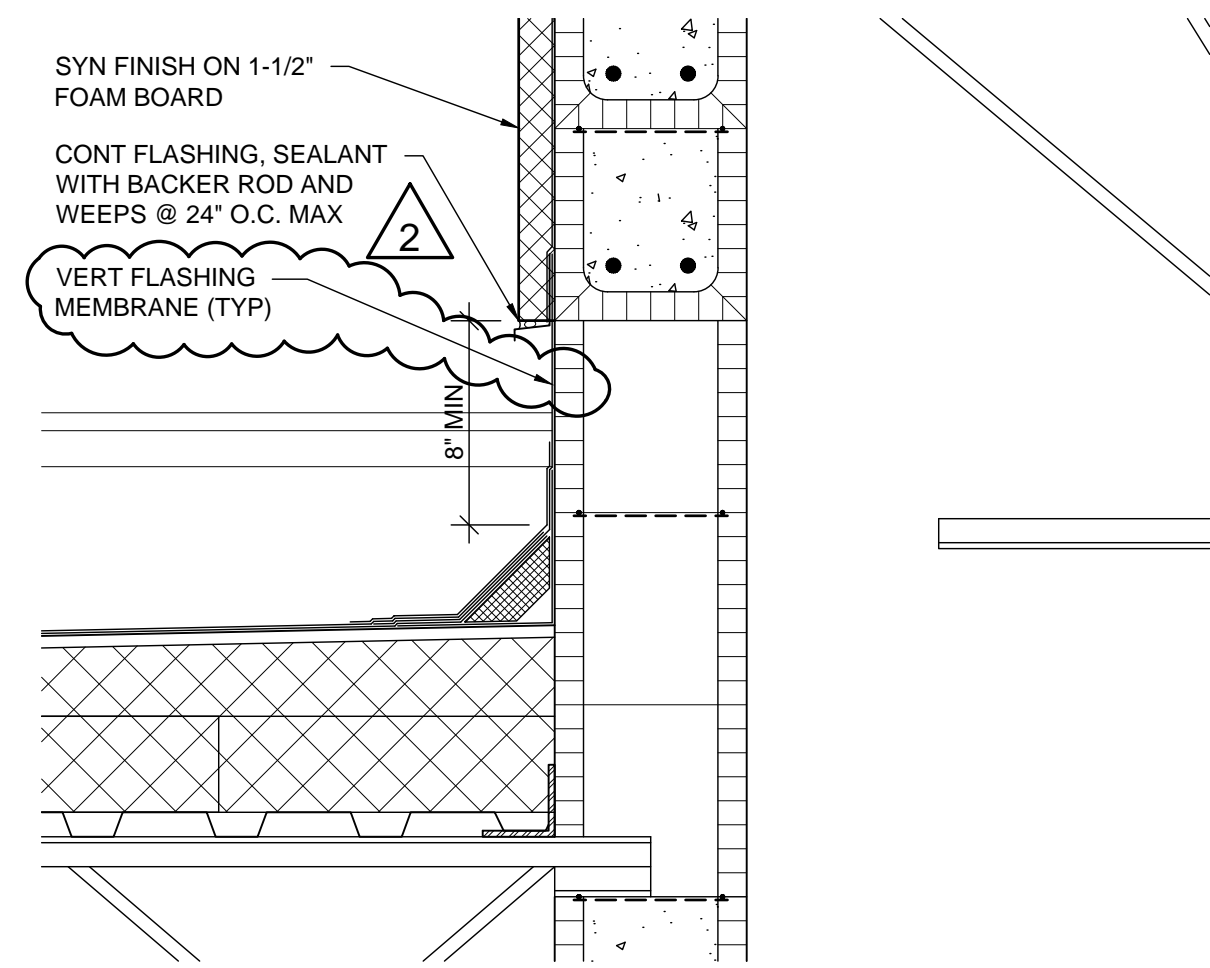
15 EIFS-BRICK JOINT
1 1/2" = 1'-0" XREF



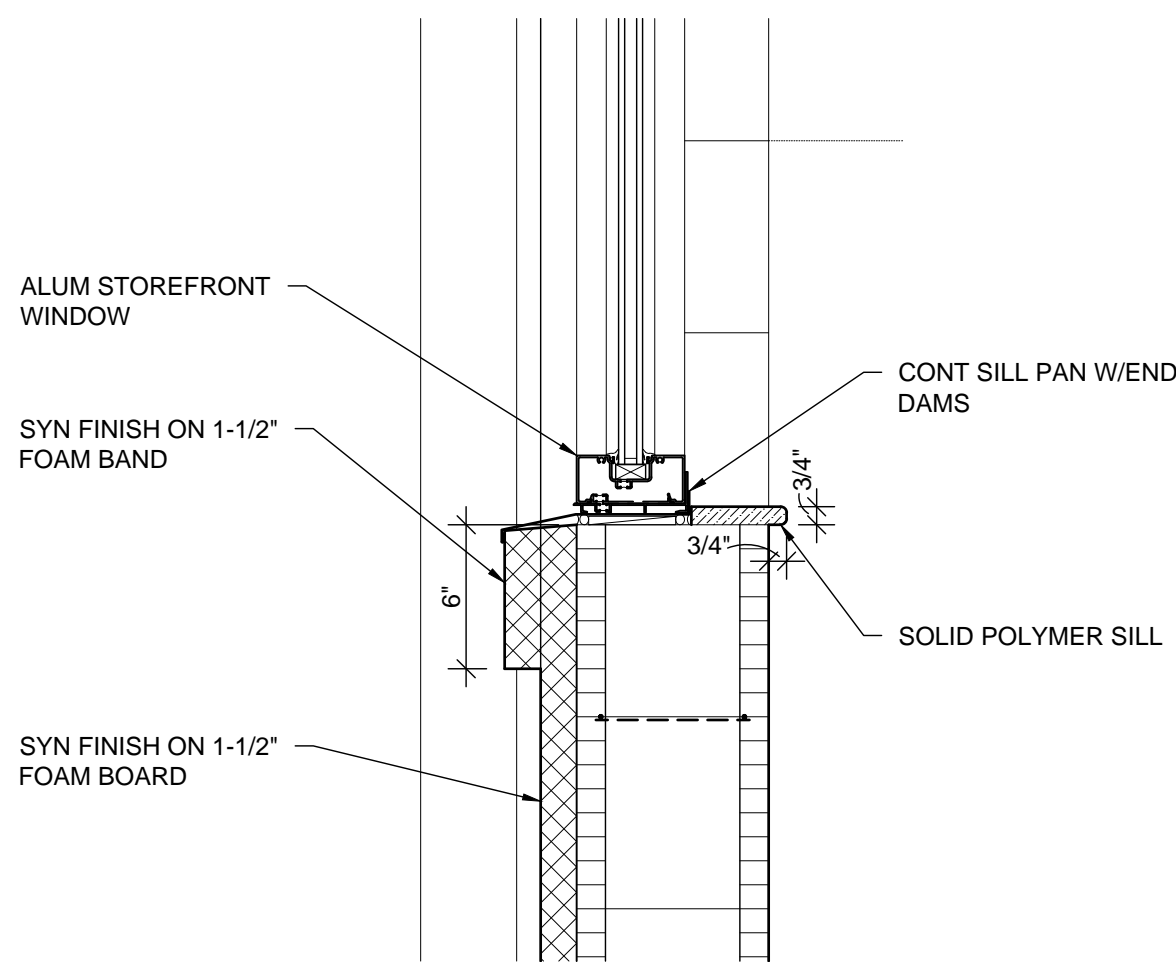
16 TOWER EAVE
1 1/2" = 1'-0" XREF



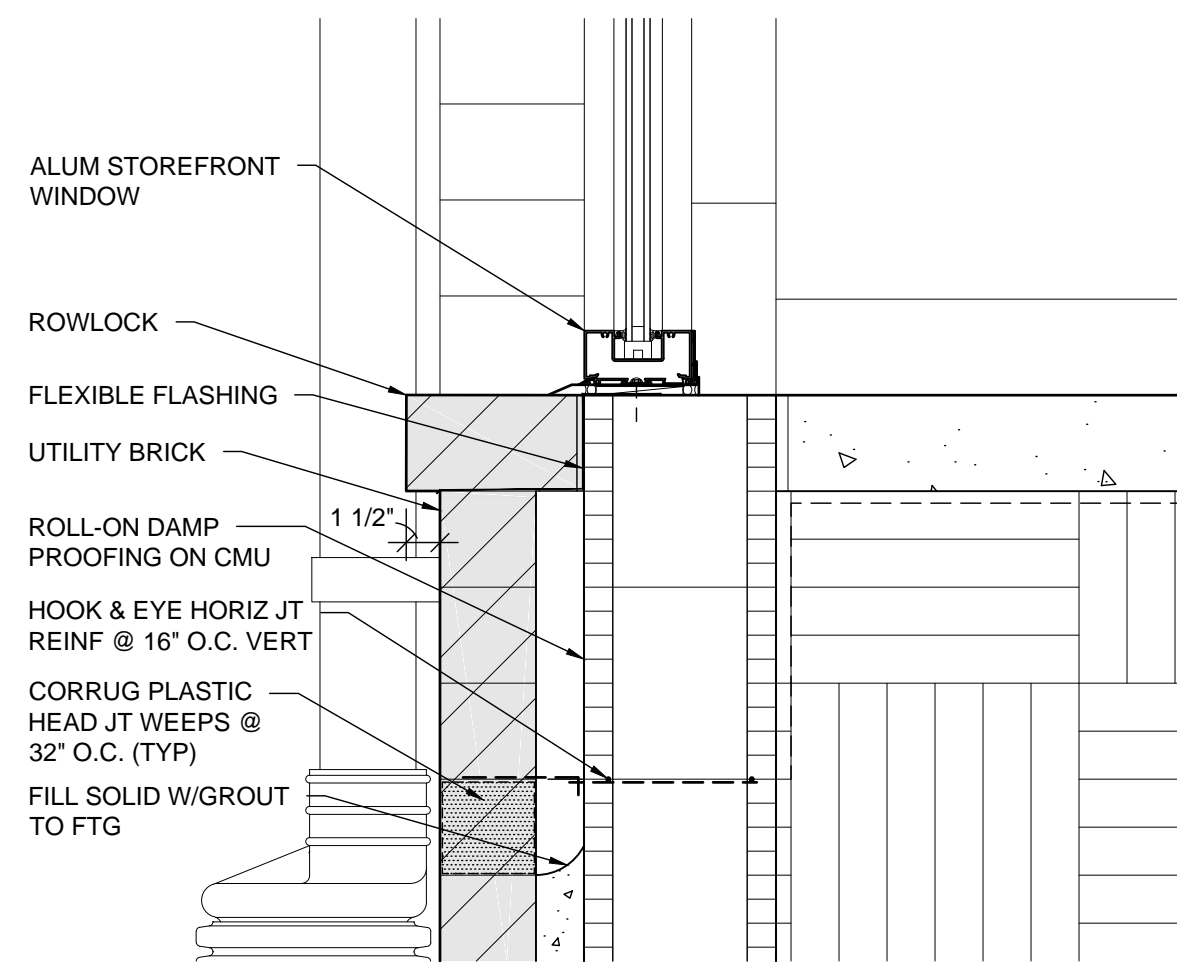
17 CANOPY ANCHOR
1 1/2" = 1'-0" XREF



18 EIFS TERMINATION @ ROOF
1 1/2" = 1'-0" XREF



19 TOWER WINDOW SILL
1 1/2" = 1'-0" XREF



20 TOWER WINDOW SILL @ FLOOR
1 1/2" = 1'-0" XREF

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FL A20000315.AB.2009.055414

REGISTERED ARCHITECT
STATE OF FLORIDA
LICENSED INTERIOR DESIGNER

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REVISIONS		
NO.	DATE	COMMENT
1	9-16-19	ADD 1
2	10-9-19	ADD 4

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DATE 9-12-19
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LIGHTING FIXTURE SCHEDULE-NOTE 2, 3							
TYPE	MANUFACTURER	CATALOG NUMBER	LAMP		VOLTS	MTG. HEIGHT	NOTES
			SIZE	QUAN.			
A	LIGHTOLIER	S10R-8-40K-22-BK	25W LED 4000K	NA	UNV	CEILING	CANOPY LIGHT
B	TRULY GREEN	88-22-40-40-T-F-RM	40W LED 4000K	NA	UNV	CEILING	2X2 LED TROFFER
C	CONTECH	CTL-8255-VL-M-4C-D3-P-FA4SP	49W LED 4000K	NA	120	CEILING - NOTE 4	LED TRACK LIGHT
D1	TRULY GREEN	88-24-40-40-T-F-RM	40W LED 4000K	NA	UNV	CEILING	2X4 LED TROFFER
D2	TRULY GREEN	88-24-50-40-T-F-RM	50W LED 4000K	NA	UNV	CEILING	2X4 LED TROFFER
E	BEGHELLI	FME-HT-LR-U-M-WW	INLCUDED	NA	120-277	NOTE 1	EXIT SIGN
F1	WILLIAMS	VWMH-L10-740-TL-DBZ-SDGL-UNV	13W LED 4000K	NA	UNV	11'-0" A.F.F. TO TOP	EXTERIOR WALL PACK
F2	WILLIAMS	VWMH-L20-740-T3-DBZ-SDGL-UNV	25W LED 4000K	NA	UNV	17'-6" A.F.F. TO TOP	EXTERIOR WALL PACK
G	BEGHELLI	EL-SE-205LED-120/277-W	INLCUDED	NA	120-277	8'-0" A.F.G. U.N.O.	EMERGENCY LIGHT
H	TRULY GREEN	88-14-40-40-T-F-SM	40W LED 4000K	NA	UNV	CEILING	LED SURFACE MOUNT
J	BK LIGHTING	D12INC-MT	12W LED 4000K	NA	UNV	TOP-OF-CANOPY AT FRONT EDGE	LED FLOOD LIGHT

LIGHTING FIXTURE SCHEDULE NOTES:
1. SINGLE OR DOUBLE FACED AS INDICATED ON DRAWING. MOUNT TO CEILING UNLESS CEILING EXCEEDS 9'-0", THEN MOUNT ABOVE DOOR.
2. SEE ARCHITECTURAL CEILING PLAN FOR EXACT LOCATIONS OF LIGHT FIXTURES.
3. FIXTURES INDICATED TO BE EMERGENCY LIGHTS SHALL CONTAIN AN EMERGENCY BATTERY BALLAST. BATTERY BALLASTS SHALL PROVIDE 1400 LUMENS FOR LINEAR LAMPS AND 700 LUMENS FOR DOWNLIGHTS.
4. INSTALL FIXTURES INDICATED ON WHITE 2 CIRCUIT TRACK WITH LENGTH AS INDICATED ON PLANS.

MOUNTING: SURFACE EX MDP VOLTS & PHASE: 208/120V, 3 PHASE, 4 WIRE													
STYLE: SQ. D QED AMPS: 1200													
ENCLOSURE TYPE: NEMA 1 M.C.B. OR M.L.O.: MCB													
AIC RATING: 65,000A													
CIR	NUM	DESCRIPTION	WIRE/CONDUIT	SIZE	POLE	BREAKER	LOAD	PHASE	LOAD	BREAKER	LOAD	DESCRIPTION	CIR
	1	RTU-2 COOLING	#2/0, #6G, 2"	175	3	14.9	X		6.9	3	60	#6, #10G, 1"	RTU-4
	3	)				14.9	X		6.9)	
	5	)				14.9	X		6.9)	
	7	RTU-2 HEAT	#2/0, #6G, 2"	175	3	19.4	X		7.6	3	80	EXISTING	EX. RTU-1
	9	)				19.4	X		7.6)	
	11	)				19.4	X		7.6)	
	13	SPACE					X		4.7	3	40	EXISTING	RTU-3
	15	DISHWASHER/BOOSTER	#2/0, #6G, 2"	175	3	17.4	X		4.7)	
	17	)				17.4	X		4.7)	
	19)				17.4	X		12.0	3	125	#1, #6G, 1 1/2"	WATER HEATER
	21	PANEL PF1/PF2	2 SETS: (4)#350, #1G, 3"	600	3	58.6	X		12.0)	
	23	)				54.7	X		12.0)	
	25	)				58.6	X		3	125		EX. SPARE
	27	EX. SPARE				125	3)	
	29	)					X)	
	31	)					X		3	150	EXISTING	EX. PANEL B1
	33	EX. PANEL K	EXISTING	400	3		X)	
	35	)					X)	
	37	)					X		3	150	EXISTING	EX. PANEL B2
	39	SPACE					X)	
	41	SPACE					X)	

PANEL LOAD KVA AMPS
PHASE A 141.5 1179
PHASE B 141.5 1179
PHASE C 137.6 1146
TOTAL 420.6 1168 @ 208V, 3 PHASE

NOTES:
1, 5
+ PROVIDE GFCI PROTECTION
DIVERSIFIED LOAD 59.63 KVA, 165 A

PANEL SCHEDULE NOTES:

- CIRCUITS MAY BE GANGED TOGETHER WITH THE WIRE SIZES INDICATED FOR UP TO THREE CURRENT CARRYING CONDUCTORS IN A CONDUIT. WHEN THE NUMBER OF CURRENT CARRYING CONDUCTORS EXCEEDS THREE, WIRES SHALL BE UPSIZED AND DERATED IN ACCORDANCE WITH NEC TABLE 310.15(B)(2)(g). CONDUIT SIZES SHALL BE ADJUSTED TO COMPLY WITH NEC TABLES FOR CONDUCTOR FILL BASED ON CONDUIT TYPE.
- PROVIDE SHUNT TRIP.
- REMOVE EXISTING BREAKER AND INSTALL NEW. MAINTAIN AIC RATING OF PANEL.
- INSTALL NEW BREAKER. MAINTAIN AIC RATING OF PANEL.
- RE-USE EXISTING BREAKER TO FEED NEW WATER HEATER.
- PROVIDE SUBFEED LUGS.
- RE-USE EXISTING CIRCUIT BREAKERS.

ELECTRICAL LOAD CALCULATION	
EXISTING LOAD TO REMAIN	32.6 KVA
NEW RTU-2 LOAD	58.2 KVA
NEW RTU-3 LOAD	14.1 KVA
NEW RTU-4 LOAD	20.7 KVA
NEW ADDITIONAL HVAC	20.4 KVA
NEW LTG LOAD (4.2 X 1.25)	5.3 KVA
NEW REC LOAD	4.5 KVA
NEW MISC LOAD	37.8 KVA
NEW KITCHEN EQUIP. LOAD (200.6 X .65)	130.4 KVA
TOTAL	324.0 KVA
AMPS @ 208V, 3ø	900 AMPS
SERVICE SIZE	1200 AMPS

MOUNTING: SURFACE PANEL PF1 VOLTS & PHASE: 208/120V, 3 PHASE, 4 WIRE													
STYLE: SQ. D NQ AMPS: 600													
ENCLOSURE TYPE: NEMA 1 M.C.B. OR M.L.O.: MLO													
AIC RATING: 65,000A													
CIR	NUM	DESCRIPTION	WIRE/CONDUIT	SIZE	POLE	BREAKER	LOAD	PHASE	LOAD	BREAKER	LOAD	DESCRIPTION	CIR
	1	COOLER/FREEZER LIGHTING	#12, #12G, 1/2"	20	1	0.5	X		0.6	1	20	#12, #12G, 1/2"	LTG-ADDITION
	3	FREEZER DOOR	#12, #12G, 1/2"	20+	1	0.5	X		0.9	1	20	#12, #12G, 1/2"	ROOFTOP REC.
	5	POS (1)	#12, #12G, 1/2"	20	1	0.5	X		0.9	1	20+	#12, #12G, 1/2"	MILK COOLER (2)
	7	HOT FOOD SERVING (4)	#10, #10G, 1/2"	30	2	2.5	X		1.2	3	30	#10, #10G, 1/2"	DISPOSAL (16)
	9	)				2.5	X		1.2)	
	11	HOT FOOD SERVING (4)	#10, #10G, 1/2"	30	2	2.5	X		1.2)	
	13)				2.5	X		1.5	1	20+	#12, #12G, 1/2"	FOOD PROCESSOR (17)
	15	MILK COOLER (2)	#12, #12G, 1/2"	20+	1	0.9	X		1.9	1	20+	#10, #10G, 1/2"	HOT FOOD CABINET (13)
	17	COLD FOOD (5)	#12, #12G, 1/2"	20+	1	1.3	X		1.0	1	20+	#12, #12G, 1/2"	REACH-IN REFRIG (14)
	19	COLD FOOD (5)	#12, #12G, 1/2"	20+	1	1.3	X					SPACE	
	21	HEATED CABINET (6)	(3)#12, #12G, 1/2"	20	2	1.5	X					SPACE	
	23	)				1.5	X					SPACE
	25	REFRIG CABINET (7)	#12, #12G, 1/2"	20+	1	1.0	X		8.0	3	90	(4)#3, #8G, 1 1/4"	STEAM KETTLE (19)
	27	ICE MAKER (8)	#12, #12G, 1/2"	20	1	1.9	X		8.0)	
	29	FLOOR MIXER (12)	#12, #12G, 1/2"	20	3	1.2	X		8.0)	
	31	)				1.2	X					(SHUNT TRIP)
	33)				1.2	X		0.3	2	15	#12, #12G, 1/2"	EXHAUST HOOD #3
	35	COMBO OVEN (20)	#3, #8G, 1 1/4"	90	3	8.3	X		0.3)	
	37)				8.3	X		1.1	1	20	#12, #12G, 1/2"	LTG-SERVING/FOOD PREP
	39)				8.3	X		0.5	1	20	#12, #12G, 1/2"	HOOD LTG/CONTROLS
	41	(SHUNT TRIP)					X					SPACE	
	43	EXHAUST HOOD #1	#12, #12G, 1/2"	15	3	0.5	X					SPACE	
	45	)				0.5	X					SPACE
	47	)				0.5	X		1	20		SPACE
	49	EXHAUST HOOD #2	#12, #12G, 1/2"	15	3	0.5	X		1	20		SPACE	
	51	)				0.5	X		1	20		SPACE
	53	)				0.5	X		1	20		SPACE

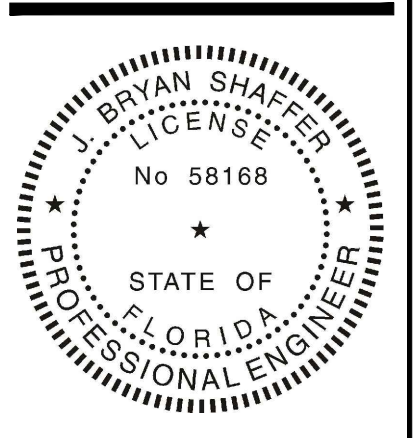
PANEL LOAD KVA AMPS
PHASE A 30.7 255
PHASE B 30.6 255
PHASE C 27.7 230
TOTAL 89 247 @ 208V, 3 PHASE

NOTES:
1, 5
+ PROVIDE GFCI PROTECTION
DIVERSIFIED LOAD 59.63 KVA, 165 A

MOUNTING: SURFACE PANEL PF2 VOLTS & PHASE: 208/120V, 3 PHASE, 4 WIRE													
STYLE: SQ. D NQ AMPS: 600													
ENCLOSURE TYPE: NEMA 1 M.C.B. OR M.L.O.: MLO													
AIC RATING: 65,000A													
CIR	NUM	DESCRIPTION	WIRE/CONDUIT	SIZE	POLE	BREAKER	LOAD	PHASE	LOAD	BREAKER	LOAD	DESCRIPTION	CIR
	1	REFRIG (8)	#12, #12G, 1/2"	20	1	1.9	X		8.3	3	90	#3, #8G, 1 1/4"	COMBO OVEN (20)
	3	SPACE					X		8.3)	
	5	SPACE					X		8.3)	
	7	SPACE					X					(SHUNT TRIP)	
	9	HOT PLATE (21)	(4)#8, #10G, 3/4"	40	3	1.8	X		0.5	1	20+	#12, #12G, 1/2"	REC-WORK TABLES
	11	)				1.8	X					SPACE
	13	)				1.8	X					SPACE
	15	(SHUNT TRIP)					X					SPACE	
	17	SPACE					X					SPACE	
	19	SPACE					X		1.2	3	30	#10, #10G, 1/2"	DISPOSAL (16)
	21	REC-120 -122	#12, #12G, 1/2"	20	1	0.7	X		1.2)	
	23	REC-116, 118	#12, #12G, 1/2"	20	1	0.7	X		1.2)	
	25	SPARE				20	1		4.1	3	45	#8, #10, 3/4"	WARE DRIER (35)
	27	REC. 107	#12, #12G, 1/2"	20	1	0.9	X		4.1)	
	29	EWV	#12, #12G, 1/2"	20	1	0.8	X		4.1)	
	31	COOLER EVAP	#12, #12G, 1/2"	20	2	0.5	X		3.5	3	40	#8, #10, 3/4"	CONVECTION OVEN (22)
	33	)				0.5	X		3.5)	
	35	FREEZER EVAP	#12, #12G, 1/2"	20	2	1.0	X		3.5)	
	37	)				1.0	X					(SHUNT TRIP)
	39	MAU CU-1	#10, #10G, 3/4"	30	3	1.9	X		0.9	1	20+	#12, #12G, 1/2"	KITCHEN REC.
	41)				1.9	X		1.8	3	20	#12, #12G, 1/2"	MAU
	43	)				1.9	X		1.8)	
	45	MAU CU-2	#10, #10G, 3/4"	30	3	1.9	X		1.8)	
	47	)				1.9	X		1	20		SPACE
	49	)				1.9	X		1	20		SPACE
	51	SPACE					X		1	20		SPACE	
	53	SPACE					X		1	20		SPACE	

PANEL LOAD KVA AMPS
PHASE A 27.9 232
PHASE B 28 233
PHASE C 27 224
TOTAL 82.9 230 @ 208V, 3 PHASE

NOTES:
1
+ PROVIDE GFCI PROTECTION
DIVERSIFIED LOAD 60.1 KVA, 169 A



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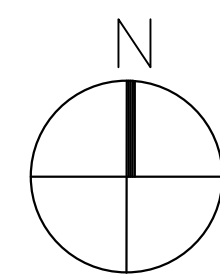
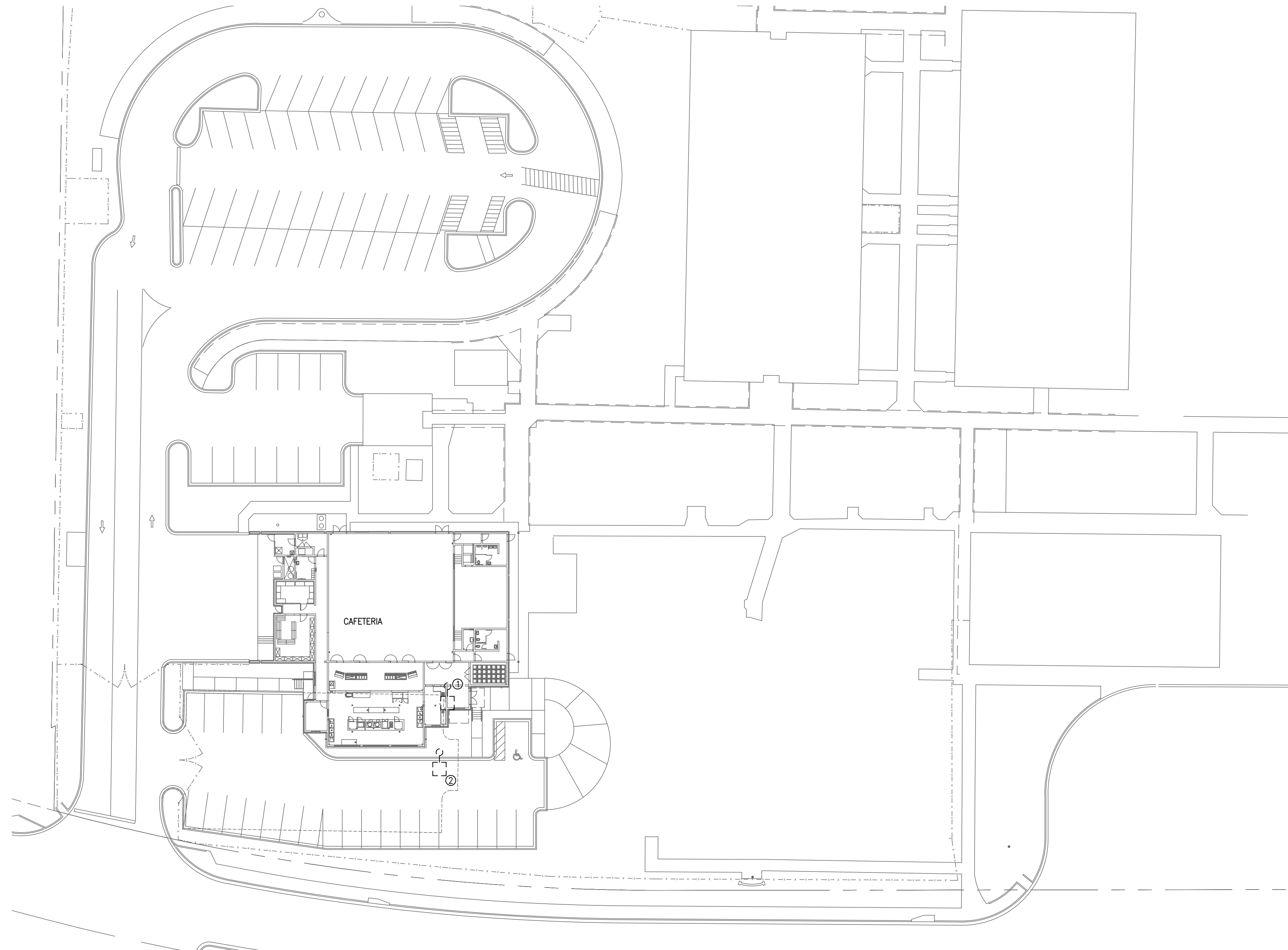
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REVISIONS		
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ELECTRICAL SITE PLAN

SCALE 1"=30'-0"

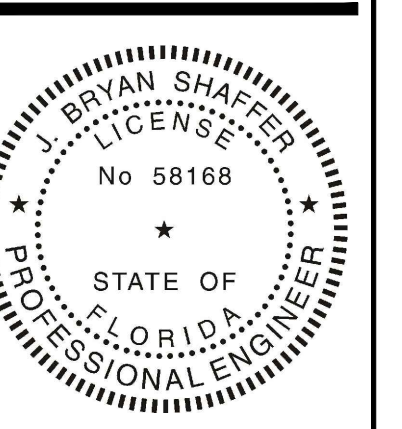
PLAN NOTES:

① REFERENCE NOTE ON DRAWING

1. EXISTING LIGHT POLE AT THIS LOCATION TO BE RELOCATED. INSTALL A JUNCTION BOX ON THE OUTSIDE OF THE BUILDING AND/OR 12" X 12" POLYMER CONCRETE HANDHOLE WITH TRAFFIC RATED COVERS AS REQUIRED OUTSIDE THE BUILDING PAD TO SPLICE CABLES AND MAINTAIN CIRCUIT FOR RECONNECTION TO NEW POLE LOCATION. EXTEND OR RE-PULL EXISTING CIRCUITS AS REQUIRED.
2. NEW LOCATION OF EXISTING LIGHT POLE. EXTEND WIRE AND CONDUIT FROM NEW HANDHOLE.



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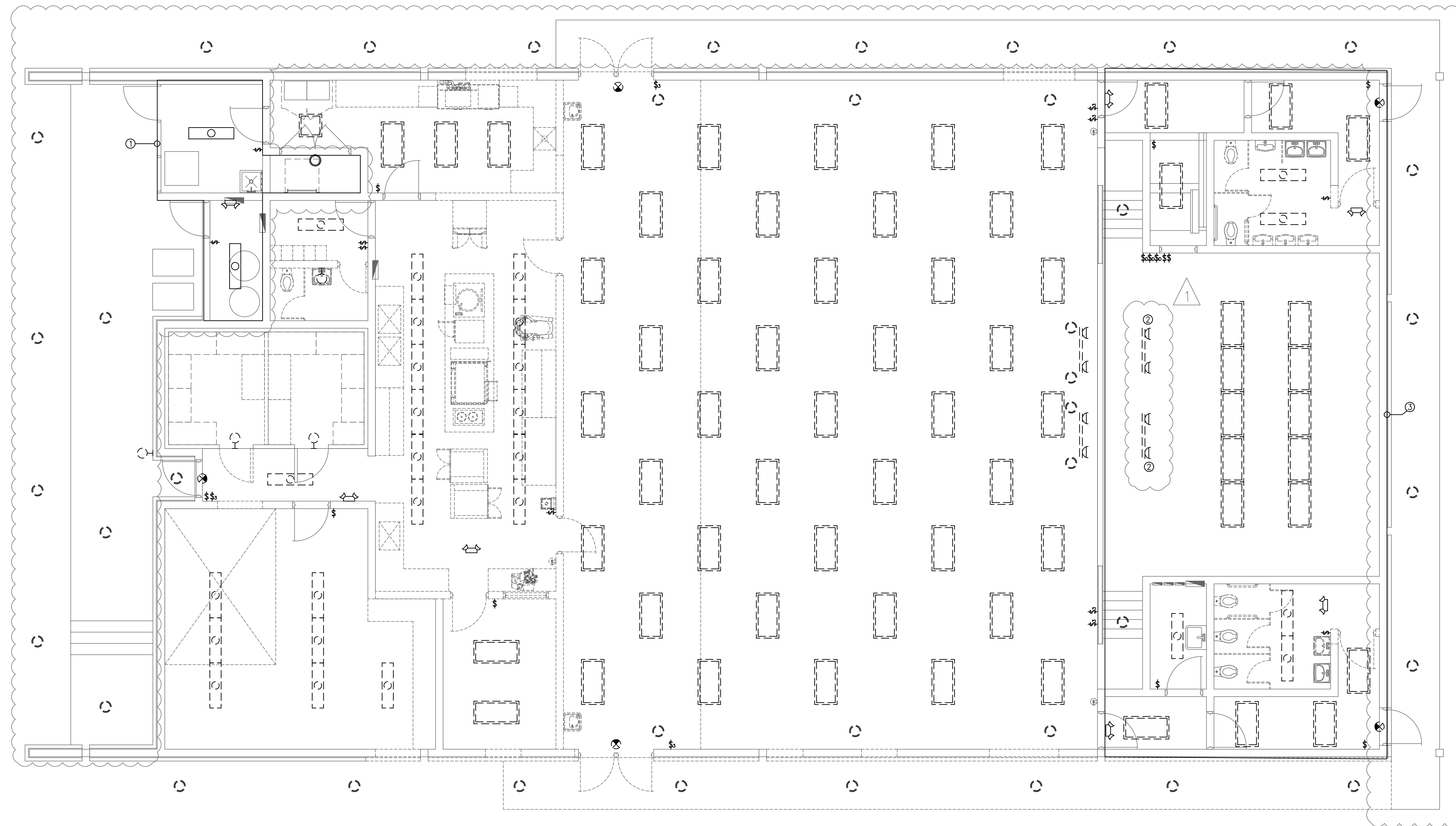
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E2.1



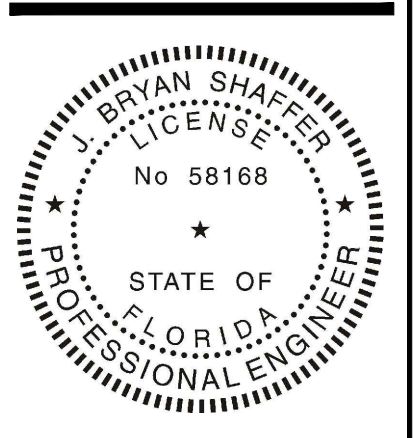
ELECTRICAL DEMO PLAN—LIGHTING

SCALE 3/16"=1'-0"

PLAN NOTES:

- ⊗ REFERENCE NOTE ON DRAWING
- 1. NO LIGHTING WORK IN THIS AREA. EXISTING LIGHTING AND CONTROLS TO REMAIN.
- 2. EXISTING FIXTURE TO REMAIN.
- 3. EXISTING LIGHTING CONTROLS TO REMAIN.

UNLESS OTHERWISE NOTED ALL EXISTING LIGHTING FIXTURES AND CONTROLS TO BE REMOVED.



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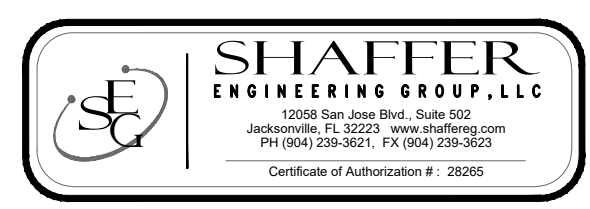
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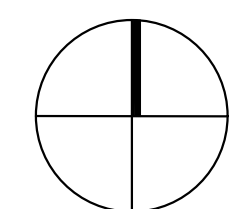
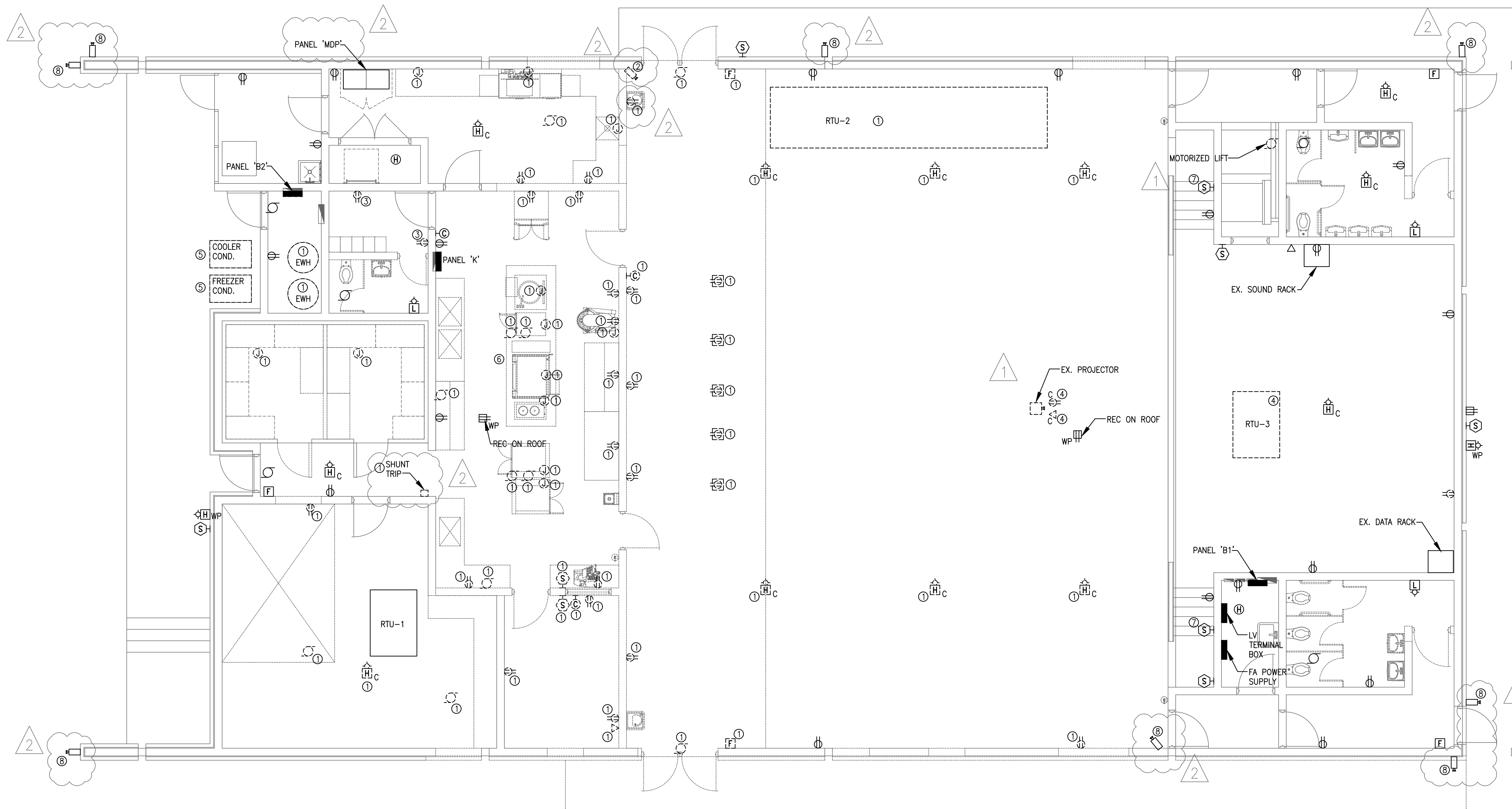
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E3.1



SCALE 3/16"=1'-0"

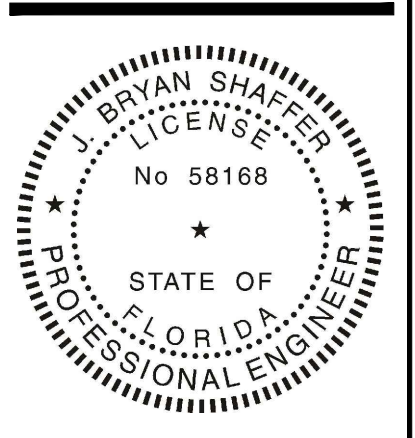
PLAN NOTES:

⊗ REFERENCE NOTE ON DRAWING

1. EXISTING DEVICE TO BE REMOVED.
2. EXISTING DEVICE TO BE RELOCATED.
3. REMOVE EXISTING DEVICE AND REPLACE WITH NEW AS INDICATED.
4. EXISTING UNIT TO BE REMOVED AND REPLACED. CONNECT NEW UNIT TO EXISTING CIRCUIT.
5. EXISTING CONDENSER TO BE REMOVED AND REPLACED. REMOVE EXISTING WIRE. EXISTING CONDUIT AND DISCONNECTS TO REMAIN.
6. REMOVE WIRING/CONDUIT TO ALL EXISTING KITCHEN EQUIPMENT.
7. EXISTING STAGE SOUND SPEAKERS TO BE REMOVED PRIOR TO DEMOLITION AND RE-INSTALLED AT COMPLETION OF CONSTRUCTION.
8. EXISTING DEVICE TO BE REMOVED AND REINSTALLED BY CCSD.

UNLESS OTHERWISE NOTED ALL EXISTING POWER/SYSTEMS DEVICES ARE TO REMAIN.

ALL EXISTING ELECTRONIC/ELECTRICAL EQUIPMENT TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION



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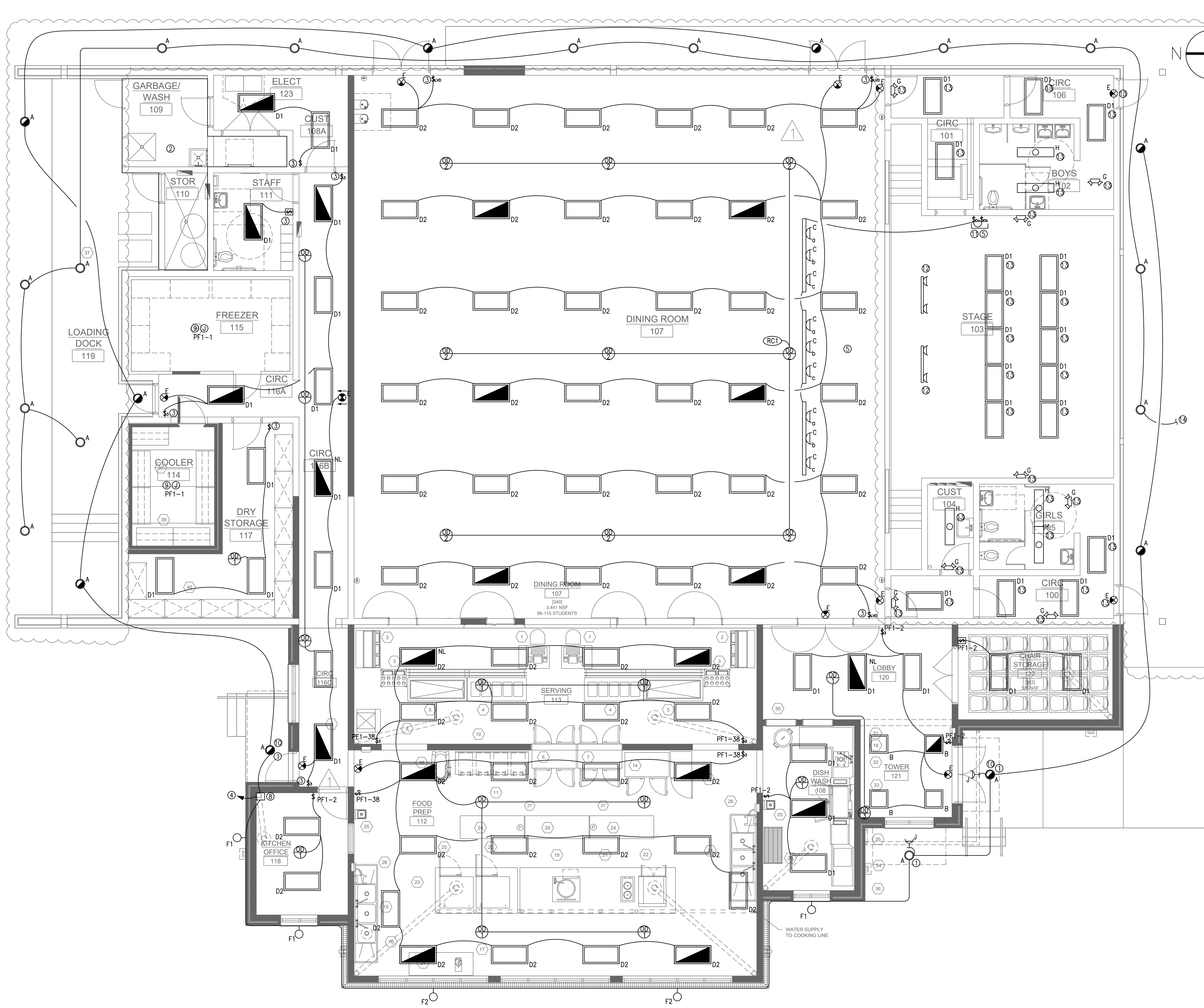
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E3.2





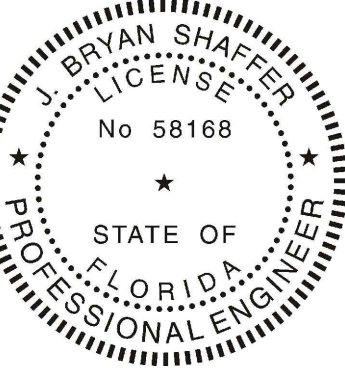
ELECTRICAL LIGHTING PLAN

SCALE 3/16"=1'-0"

PLAN NOTES:

- 1. CENTER FIXTURES IN CANOPY.
- 2. NO LIGHTING WORK IN THIS AREA.
- 3. CONNECT TO EXISTING AREA LIGHTING CIRCUITS WITH (3) #12, 1/2". DO NOT EXCEED 1800 WATTS PER CIRCUIT.
- 4. CONNECT TO EXISTING SWITCHED/UNSWITCHED EXTERIOR LIGHTING CIRCUIT WITH (4) #12, 1/2".
- 5. VERIFY PREFERRED LOCATION WITH SCHOOL PRINCIPAL AND INSTALL PER THEIR DIRECTION.
- 6. EXIT LIGHTING SHALL BE CONNECTED TO CONSTANT HOT CONDUCTOR OF ROOM LIGHTING CIRCUIT.
- 7. EMERGENCY LIGHTING SHALL BE CONNECTED TO SWITCHED AND CONSTANT HOT CONDUCTORS OF ROOM LIGHTING CIRCUIT.
- 8. INSTALL BATTERY INVERTER ABOVE CEILING TO POWER FIXTURE FOR EMERGENCY USE. LABEL LOCATION ON GRID AS EXTERIOR BATTERY INVERTER.
- 9. CONNECT TO EXISTING WALK-IN COOLER/FREEZER LIGHTING. COORDINATE WITH SUPPLIED EQUIPMENT PRIOR TO INSTALLATION.
- 10. CONNECT FIXTURE TO EMERGENCY BATTERY INVERTER.
- 11. CONNECT TO EXISTING TRACK LIGHTING CIRCUIT WITH (3)#12, 1/2" C.
- 12. EXISTING LIGHTING FIXTURE TO REMAIN.
- 13. EXISTING LIGHTING FIXTURE TO BE REPLACED WITH NEW. RE-CONNECT TO EXISTING CIRCUIT.
- 14. CONNECT TO EXISTING SWITCHED EXTERIOR LIGHTING CIRCUIT WITH (3)#12, 1/2" C.

GENERAL NOTES
 (6) (7)



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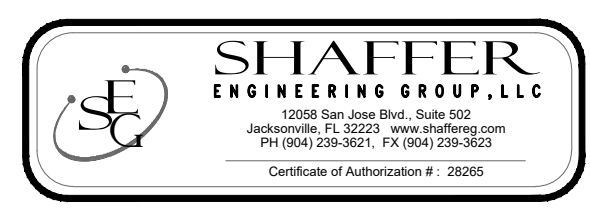
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E4.1

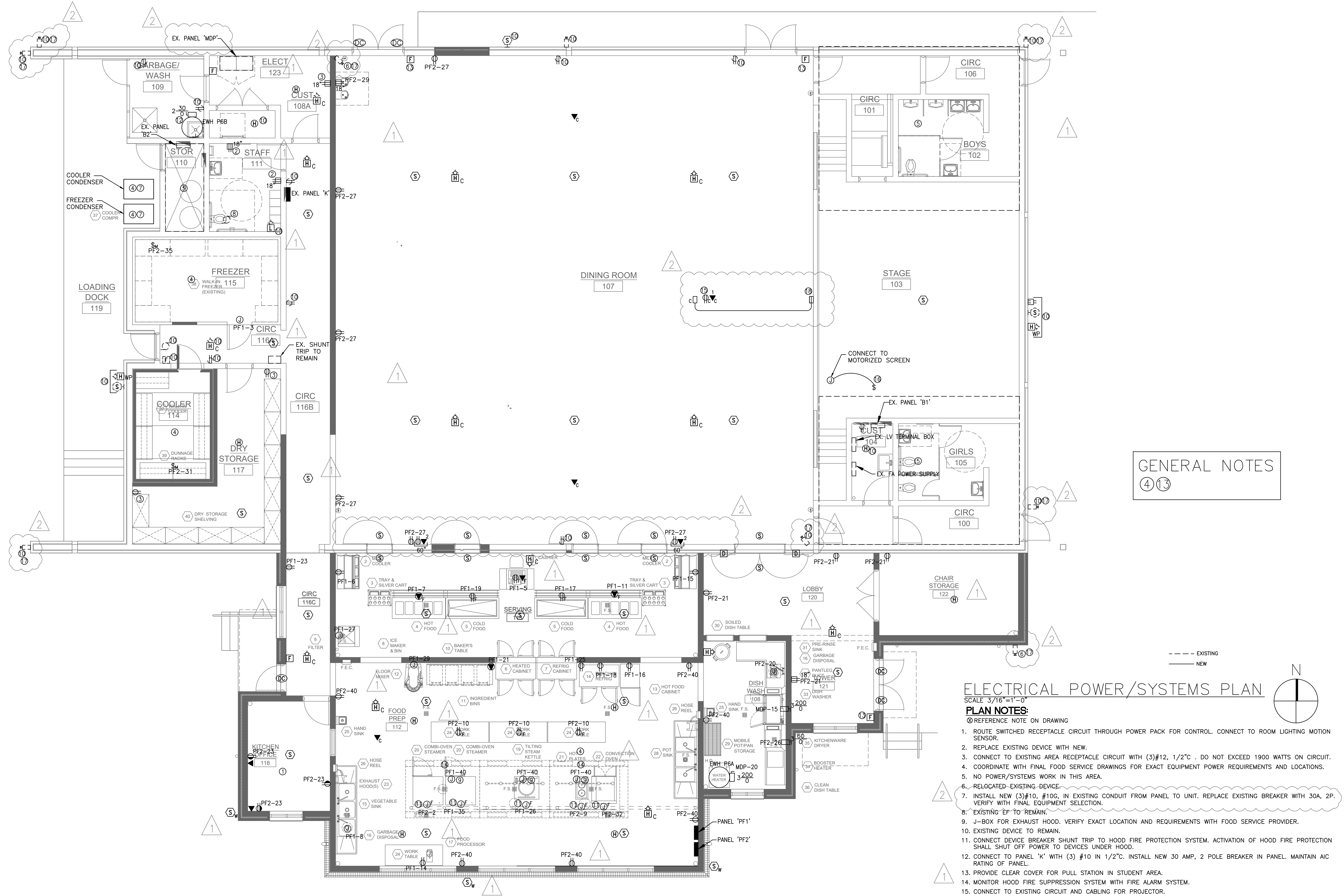
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GENERAL NOTES
 (4) (13)

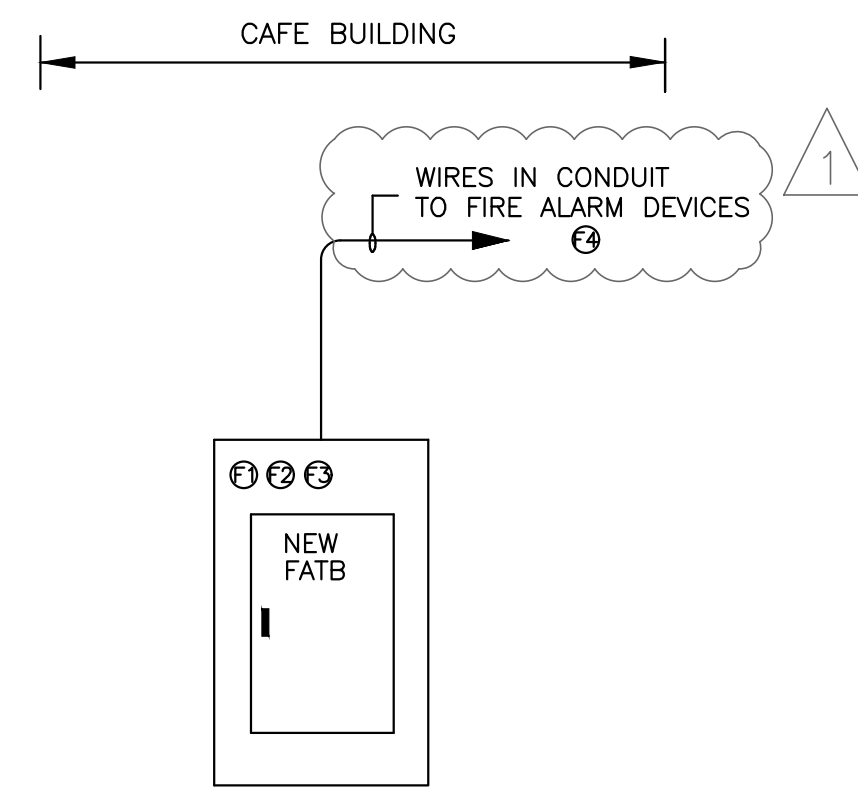
ELECTRICAL POWER/SYSTEMS PLAN

SCALE 3/16"=1'-0"

PLAN NOTES:

- REFERENCE NOTE ON DRAWING
- ROUTE SWITCHED RECEPTACLE CIRCUIT THROUGH POWER PACK FOR CONTROL. CONNECT TO ROOM LIGHTING MOTION SENSOR.
- REPLACE EXISTING DEVICE WITH NEW.
- CONNECT TO EXISTING AREA RECEPTACLE CIRCUIT WITH (3) #12, 1/2" C. DO NOT EXCEED 1900 WATTS ON CIRCUIT.
- COORDINATE WITH FINAL FOOD SERVICE DRAWINGS FOR EXACT EQUIPMENT POWER REQUIREMENTS AND LOCATIONS.
- NO POWER/SYSTEMS WORK IN THIS AREA.
- RELOCATED-EXISTING-DEVICE.
- INSTALL NEW (3) #10, #10G, IN EXISTING CONDUIT FROM PANEL TO UNIT. REPLACE EXISTING BREAKER WITH 30A, 2P.
- VERIFY WITH FINAL EQUIPMENT SELECTION.
- EXISTING 'E' TO REMAIN.
- J-BOX FOR EXHAUST HOOD. VERIFY EXACT LOCATION AND REQUIREMENTS WITH FOOD SERVICE PROVIDER.
- EXISTING DEVICE TO REMAIN.
- CONNECT DEVICE BREAKER SHUNT TRIP TO HOOD FIRE PROTECTION SYSTEM. ACTIVATION OF HOOD FIRE PROTECTION SHALL SHUT OFF POWER TO DEVICES UNDER HOOD.
- CONNECT TO PANEL 'K' WITH (3) #10 IN 1/2" C. INSTALL NEW 30 AMP, 2 POLE BREAKER IN PANEL. MAINTAIN AIC RATING OF PANEL.
- PROVIDE CLEAR COVER FOR PULL STATION IN STUDENT AREA.
- MONITOR HOOD FIRE SUPPRESSION SYSTEM WITH FIRE ALARM SYSTEM.
- CONNECT TO EXISTING CIRCUIT AND CABLING FOR PROJECTOR.
- CONNECT MOTORIZED SCREEN & UP/DOWN SWITCH TO A NEW 20A/1P BREAKER IN PANEL B1 WITH (3) #12, 1/2" C. LOCATE UP/DOWN SWITCH AS DIRECTED BY SCHOOL PRINCIPAL.
- ALL EXISTING CAMERAS TO BE RE-INSTALLED BY CCSD.
- INSTALL ALTONA #AT-HDVS-150-TX-WP AT WALL AND ALTONA #AT-HDVS-150-RX AT PROJECTOR. CONNECT WITH (2) CAT 6 CABLES. COORDINATE EXACT WALL PLATE LOCATION WITH OWNER IN FIELD.

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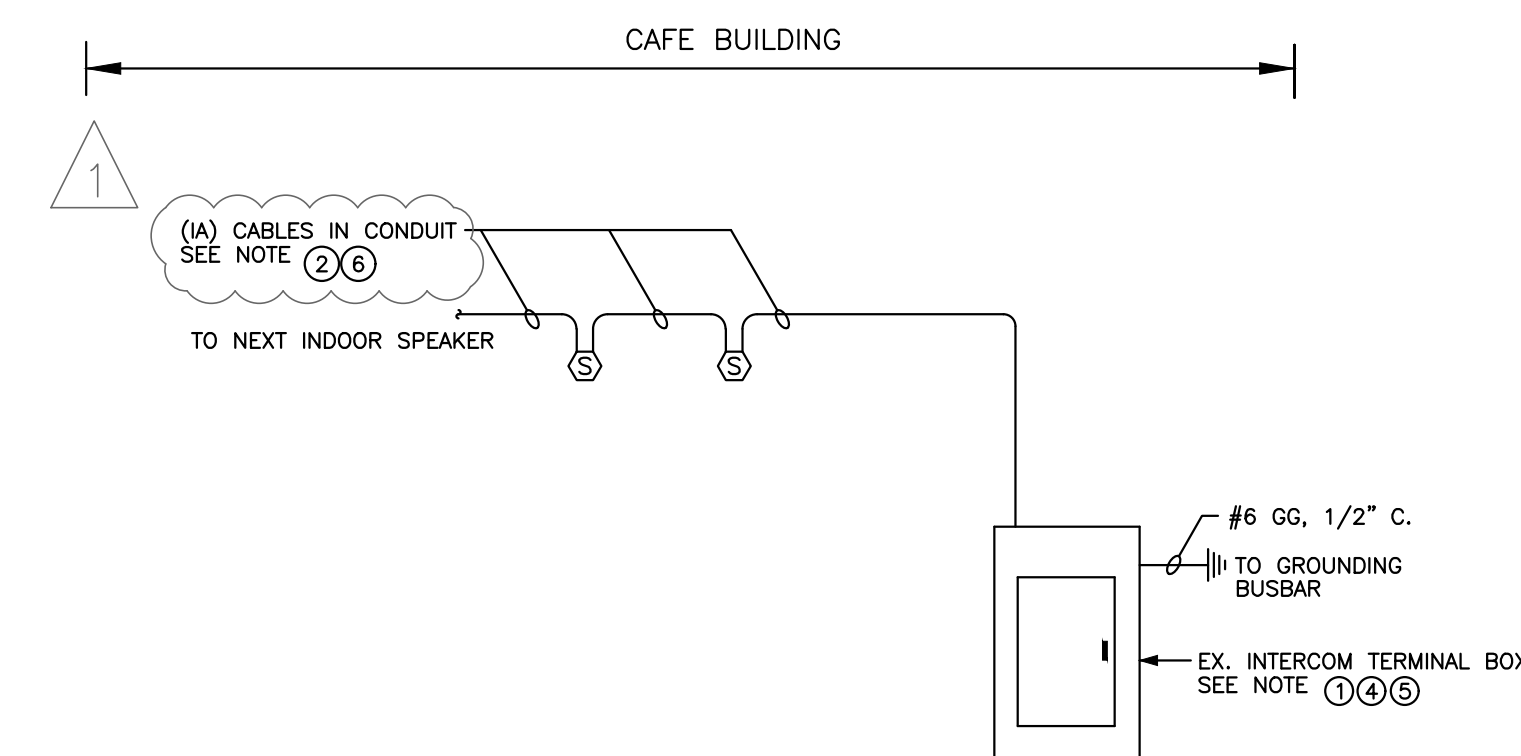
FIRE ALARM RISER DIAGRAM

NOT TO SCALE

NOTES:

- ① EXISTING FIRE ALARM PANEL IS ADDRESSABLE. ALL NEW DEVICES SHALL BE LISTED FOR USE WITH EXISTING PANEL.
- ② PROVIDE NEW POWER SUPPLIES AS REQUIRED.
- ③ EXISTING FA SYSTEM IS VOICE EVAC SYSTEM (EDWARDS #EST-3X). ALL NEW NOTIFICATION DEVICES SHALL BE VOICE EVAC (TYPICAL).

④ IF EXISTING CABLES ARE PLENUM RATED CABLES SUPPORTED BY J-HOOKS, NEW CABLES AND SUPPORTS ARE ALLOWED TO BE PLENUM RATED CABLE WITH J-HOOKS. OTHERWISE CABLES IN CONDUIT SHALL BE INSTALLED AS INDICATED.



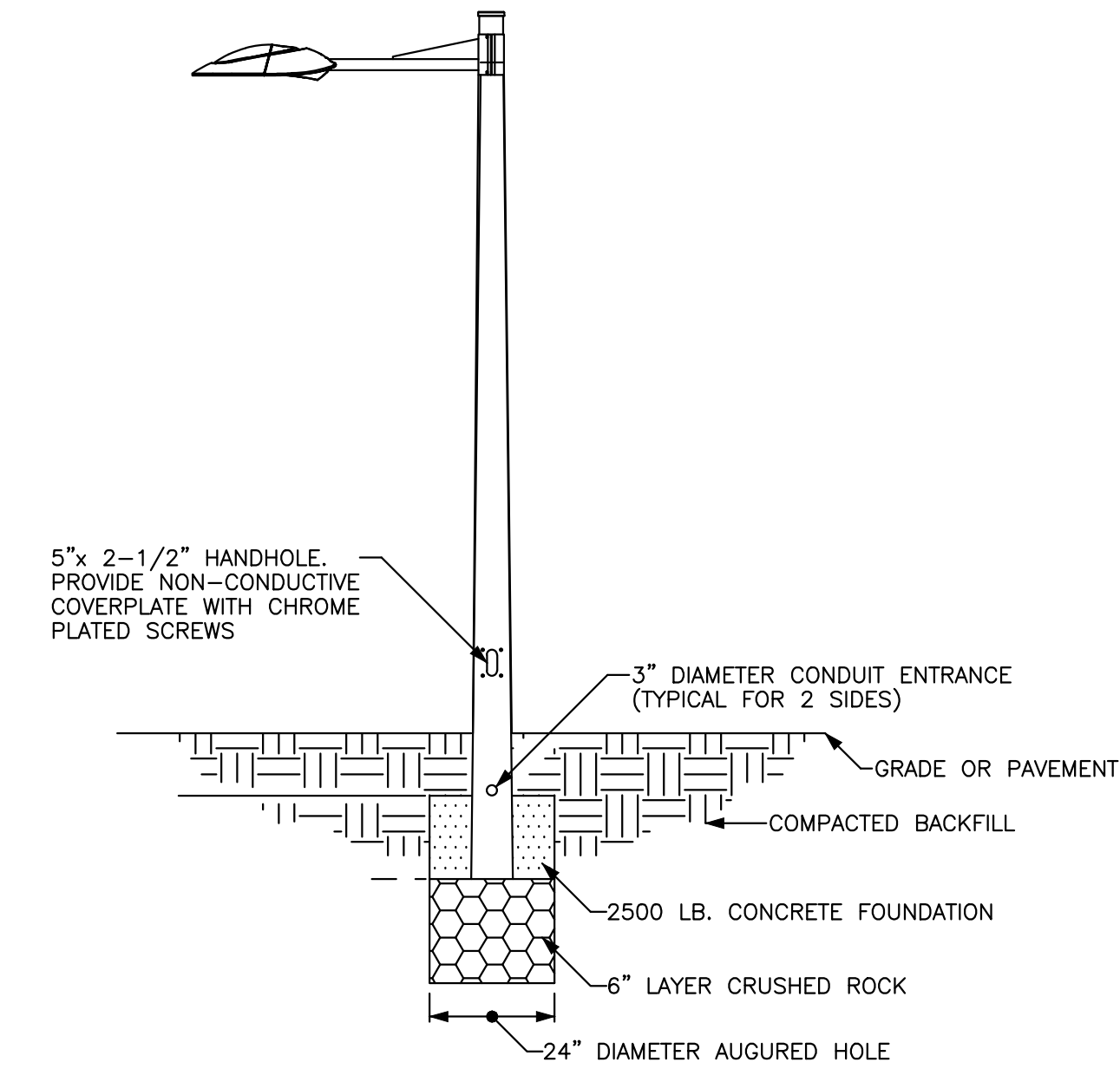
INTERCOM RISER DIAGRAM

NOT TO SCALE

NOTES:

- ① INSTALL NEW TERMINAL BOXES AS REQUIRED.
- ② QUANTITY OF (A) CABLES SHALL BE DESIGNED TO SUIT ZONES INDICATED AND FOR A MAXIMUM OF 3% VOLTAGE DROP. CONDUIT SIZING FOR STATION INTERCOM CABLES (A) SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
1 TO 5 CABLES - 1 1/4-INCH CONDUIT
- ③ INTERCOM CABLE SCHEDULE:
IA INTERCOM STATION CABLE: WEST PENN AQ227 - 2 CONDUCTOR #12 AWG WITH OVERALL JACKET.
- ④ PROVIDE AS-BUILT DRAWINGS FOR SOUND AND INTERCOM SYSTEM. DRAWINGS TO SHOW ROUTING OF CONDUITS, CABLES, JUNCTION BOXES, EQUIPMENT AND WIRING DIAGRAMS.
- ⑤ EXISTING INTERCOM SYSTEM IS BOGEN PCM 2000.

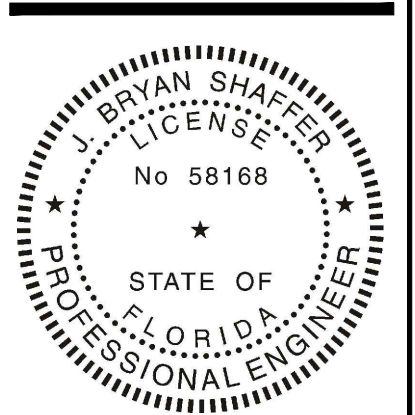
⑥ IF EXISTING CABLES ARE PLENUM RATED CABLES SUPPORTED BY J-HOOKS, NEW CABLES AND SUPPORTS ARE ALLOWED TO BE PLENUM RATED CABLE WITH J-HOOKS. OTHERWISE CABLES IN CONDUIT SHALL BE INSTALLED AS INDICATED.



NOTE:
BURY POLE BACK TO ORIGINAL BURIAL DEPTH.

POLE BASE DETAIL

NOT TO SCALE



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EXPANSION OF
DOCTORS INLET ELEMENTARY CAFETERIA
 2634 C.R. 220, MIDDLEBURG, FL 32068

REVISIONS		
NO.	DATE	COMMENT
Δ	10-08-19	ADD 4

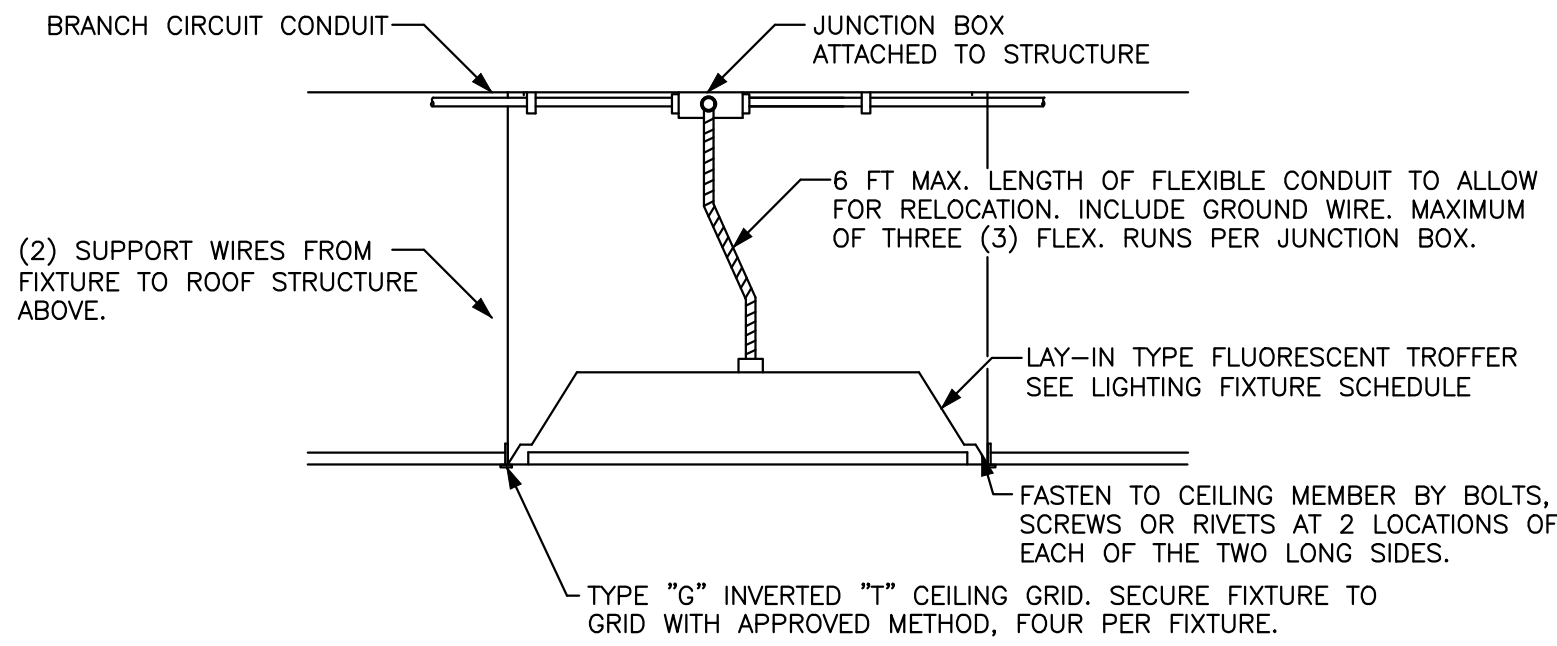
JOB NO. 182000
 DATE 08-22-19
 DRAWN BY HJH
 CHECKED BY JBS



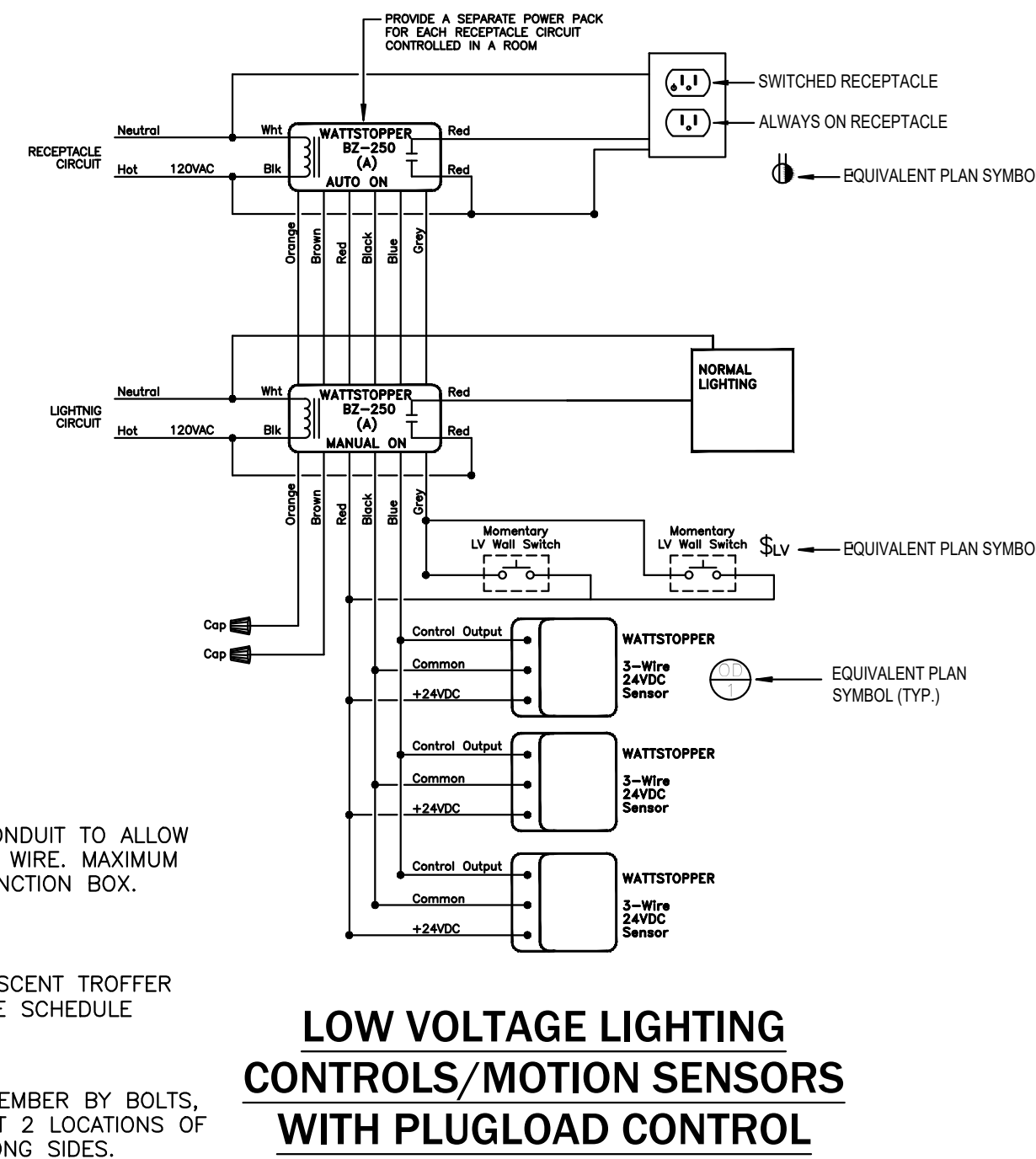
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GENERAL NOTES:

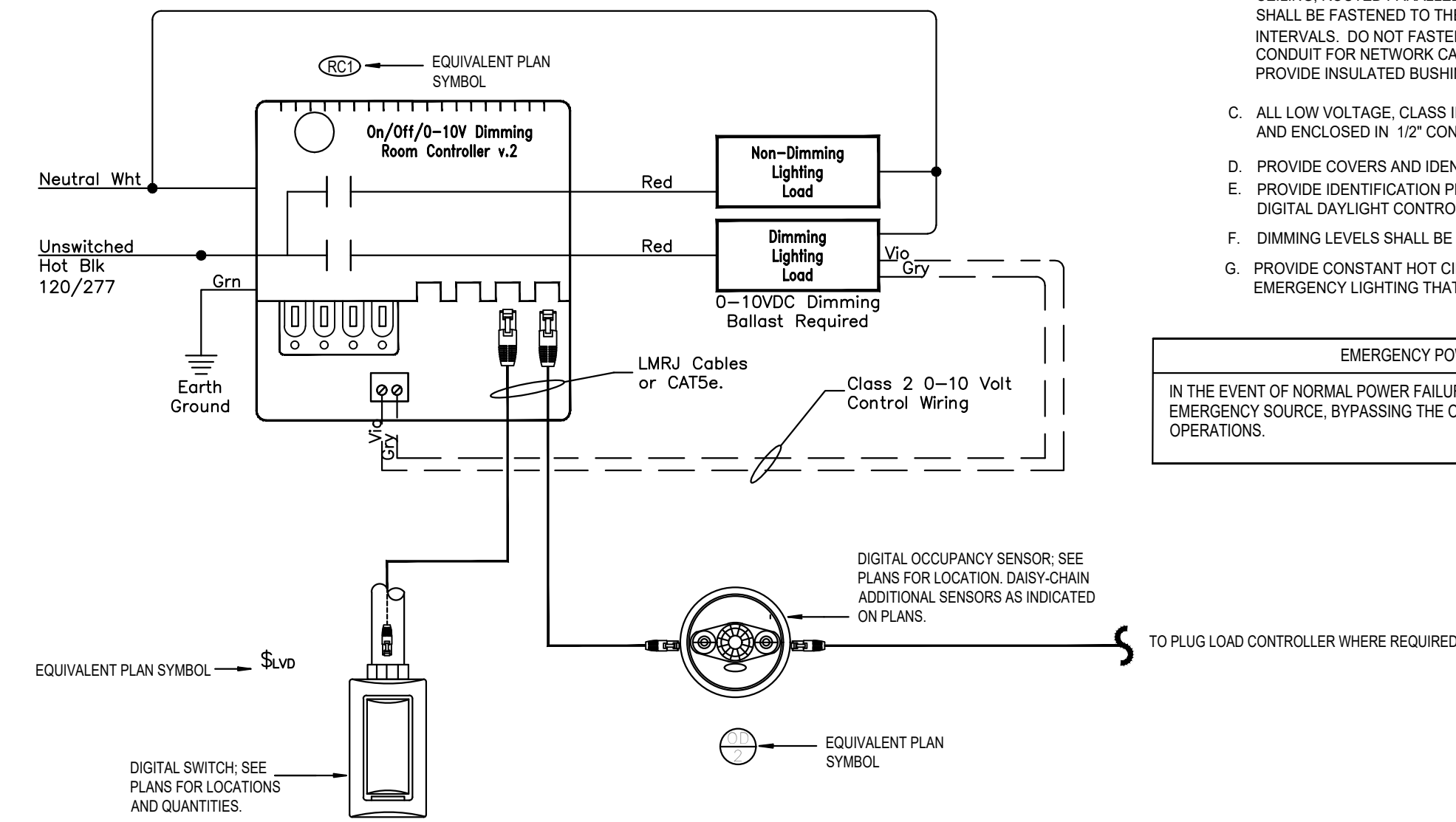
- COORDINATE ALL NEW UNDERGROUND CONDUIT INSTALLATION WITH PHASING OF WORK AND CIVIL WORK TO AVOID CONFLICTS, DAMAGE TO NEW CONDUIT INSTALLATIONS AND DISCONNECTION OF SERVICES TO BUILDINGS TO REMAIN IN OPERATION.
- ALL EXISTING BUILDINGS ARE REQUIRED TO REMAIN IN OPERATION. THEREFORE ALL ELECTRICAL AND COMMUNICATION SERVICES ARE TO REMAIN IN OPERATION AT ALL TIMES TO THOSE BUILDINGS UNLESS COORDINATED WITH AND APPROVED BY OWNER.
- INSTALL IN GROUND HAND HOLES AND PULL BOXES AS REQUIRED, DO NOT EXCEED 360 DEGREES IN CONDUIT BENDS WITHOUT A HANDHOLE OR PULLBOX.



TYPICAL LAY-IN FIXTURE INSTALLATION - DETAIL
NOT TO SCALE



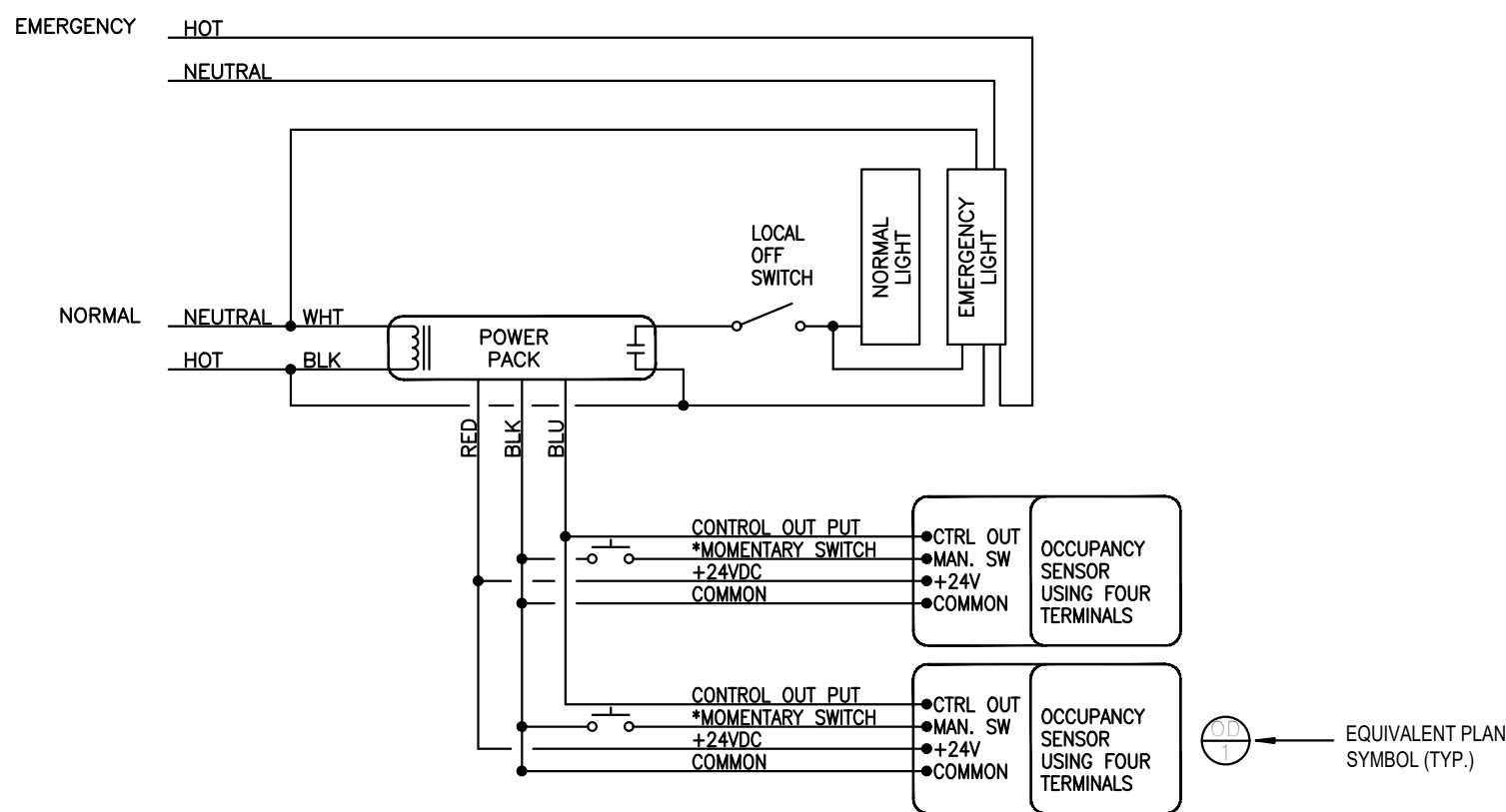
LOW VOLTAGE LIGHTING CONTROLS/MOTION SENSORS WITH PLUGLOAD CONTROL



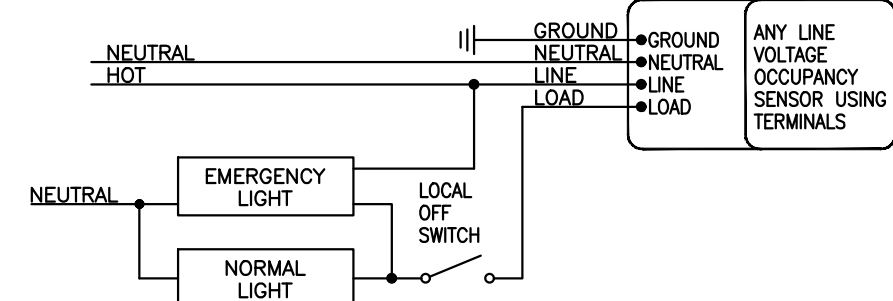
SOCIAL/GATHERING/FUNCTION ROOM DLM LIGHTING CONTROL DETAIL
NOT TO SCALE

- NOTES:**
- ALL LINE VOLTAGE WIRING SHALL BE #12AWG AND ENCLOSED IN 1/2" CONDUIT.
 - NETWORK CABLE SHALL BE IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. THE NETWORK CABLE SHALL BE PLENUM RATED PREE-WIRED ABOVE THE FINISHED CEILING, ROUTED PARALLEL AND PERPENDICULAR TO STRUCTURAL ELEMENTS. CABLE SHALL BE FASTENED TO THE STRUCTURE WITH APPROPRIATE CABLE TIES AT 3' INTERVALS. DO NOT FASTEN CABLE TO OTHER CONDUIT SYSTEMS. PROVIDE 3/4" CONDUIT FOR NETWORK CABLE FROM SWITCH TO ACCESSIBLE CEILING SPACE. PROVIDE INSULATED BUSHING AT CONDUIT TERMINATION IN CEILING SPACE.
 - ALL LOW VOLTAGE, CLASS II WIRING SHALL BE PER MANUFACTURER'S SPECIFICATIONS AND ENCLOSED IN 1/2" CONDUIT.
 - PROVIDE COVERS AND IDENTIFY JUNCTION BOXES PER SPECIFICATIONS.
 - PROVIDE IDENTIFICATION PLATE ON THE CEILING GRID INDICATING LOCATION OF DIGITAL DAYLIGHT CONTROLLER AND INPUT/OUTPUT INTERFACE DEVICE ABOVE.
 - DIMMING LEVELS SHALL BE FIELD SET TO LEVELS AS REQUIRED.
 - PROVIDE CONSTANT HOT CIRCUIT CONDUCTOR TO FIXTURES DESIGNATED FOR EMERGENCY LIGHTING THAT ARE EQUIPPED WITH AN EMERGENCY BATTERY BALLAST.

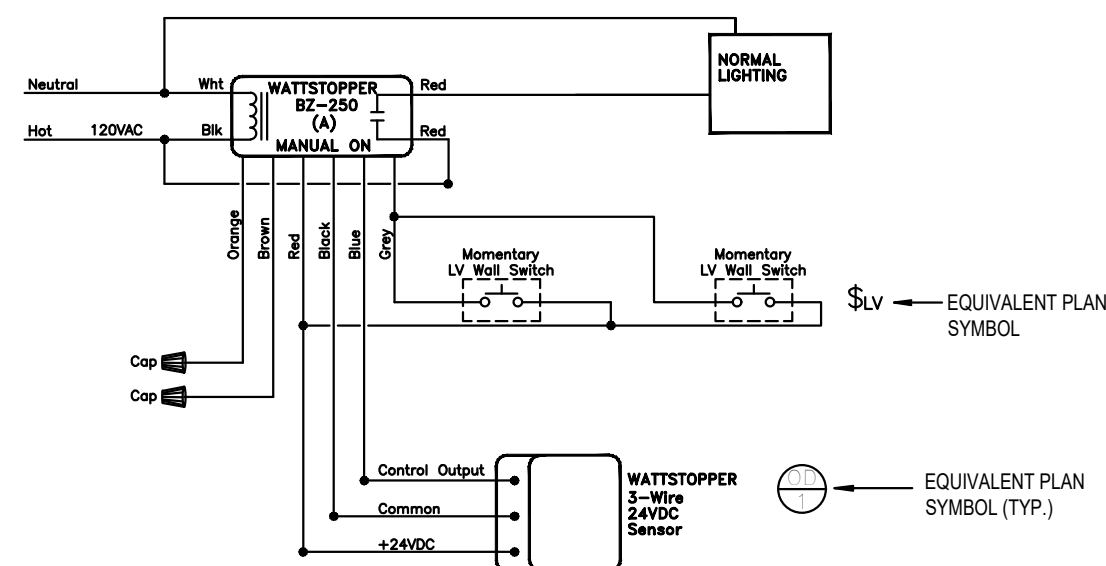
EMERGENCY POWER FAILURE OPERATION DESCRIPTION
IN THE EVENT OF NORMAL POWER FAILURE, THE EMERGENCY LIGHTING FIXTURES SHALL SHUNT TO THE EMERGENCY SOURCE, BYPASSING THE OCCUPANCY SENSOR SWITCHES AND DAYLIGHT HARVESTING OPERATIONS.



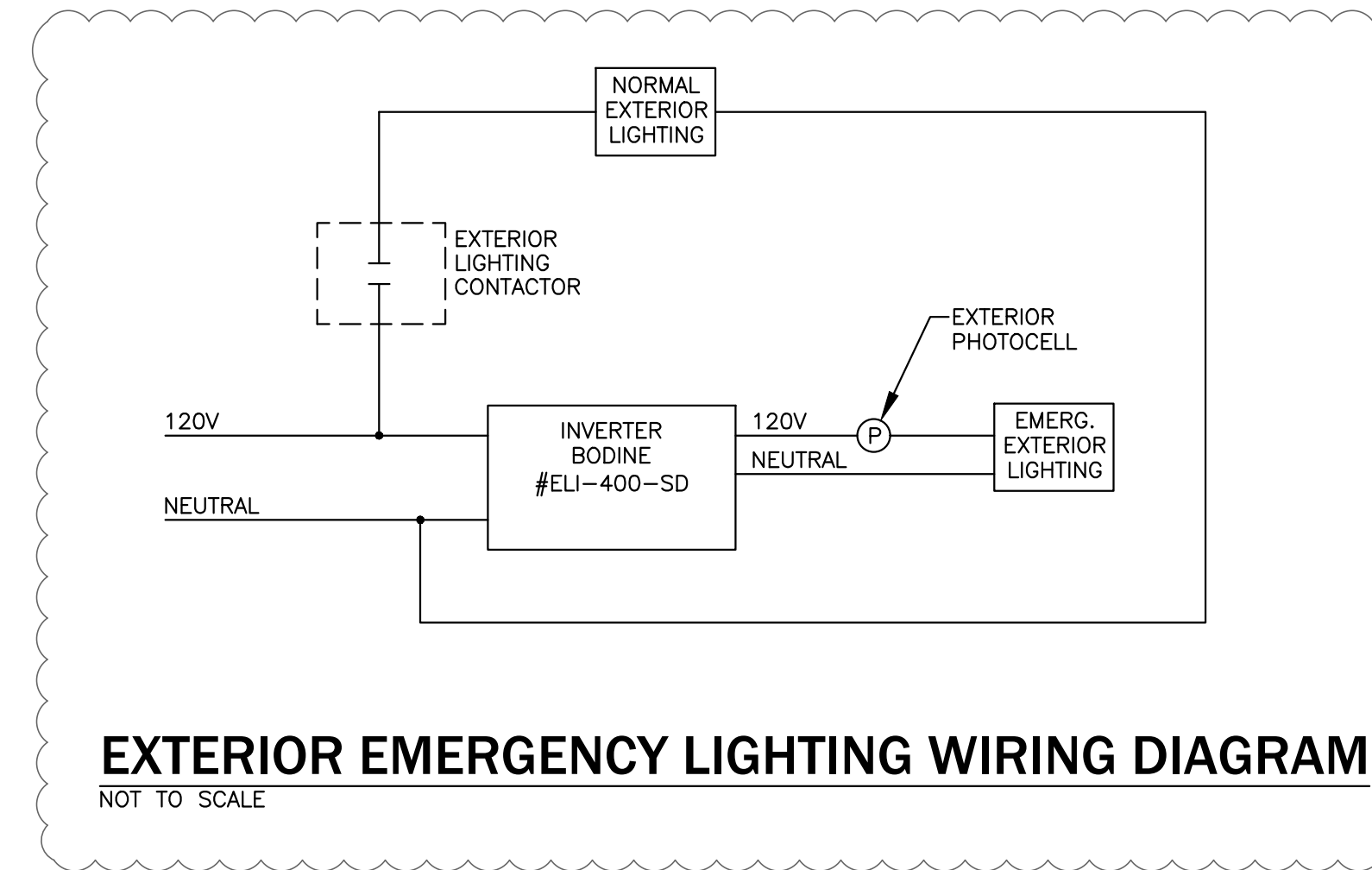
LIGHTING MOTION SENSOR DETAILS-WITH LINE VOLTAGE CONTROLS



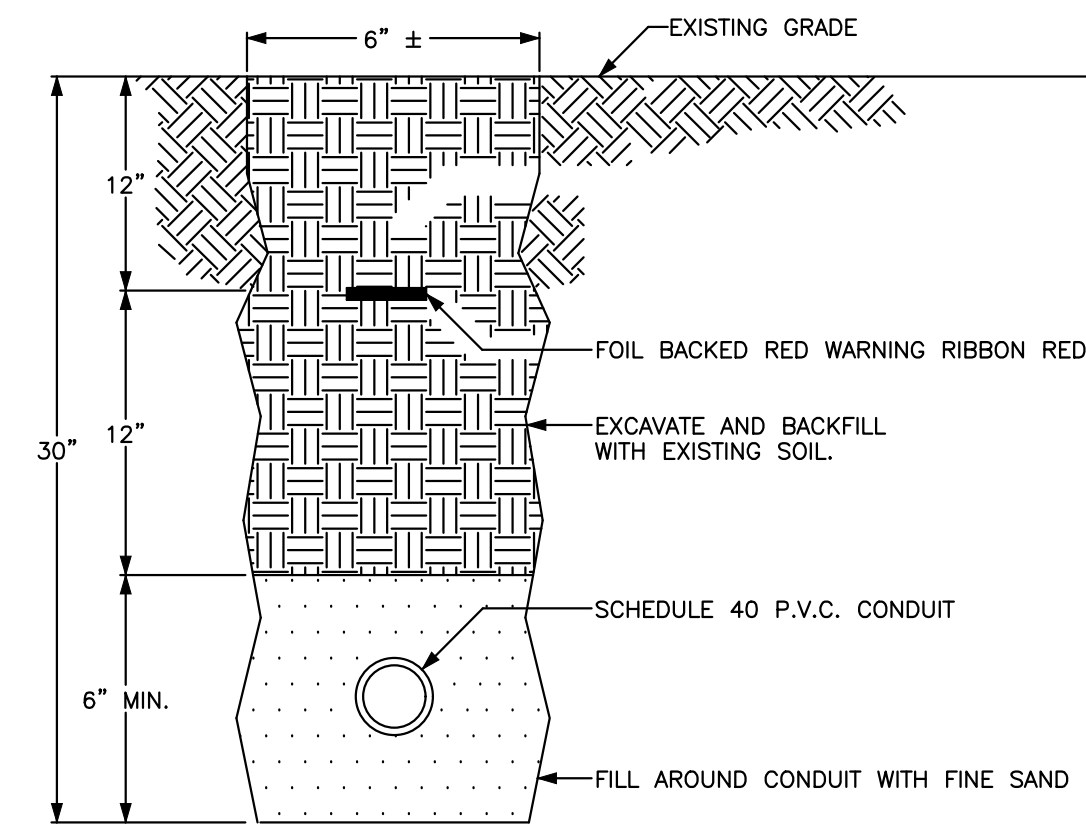
LINE VOLTAGE LIGHTING MOTION SENSOR DETAIL - WALL SWITCH



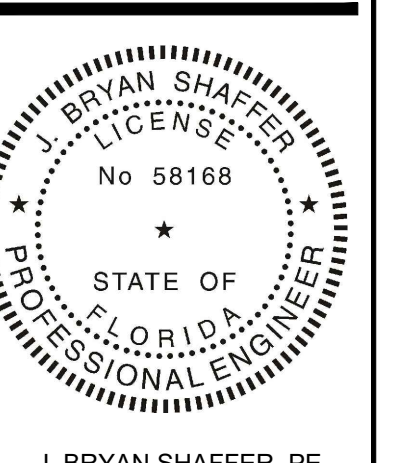
LOW VOLTAGE LIGHTING CONTROLS/MOTION SENSOR W/O PLUGLOAD CONTROL



EXTERIOR EMERGENCY LIGHTING WIRING DIAGRAM
NOT TO SCALE



DIRECT BURIED CONDUIT DETAIL
NOT TO SCALE



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