

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHT FIXTURE TYPE		COMBINATION STARTER/DISCONNECT SWITCH
	HIGH-BAY LIGHT FIXTURE		HACR BREAKER IN NEMA ENCLOSURE. COORDINATE W/ EQUIPMENT SUPPLIER
	LOW-BAY / CANOPY / SECURITY LIGHT FIXTURE		2-COMPARTMENT POWER POLE, WIREMOLD 25DPT SERIES - WHITE COLOR
	DIRECTIONAL EXIT SIGN WITH BATTERY PACK		MOTOR CONNECTION AS REQUIRED
	COMBINATION EXIT/EGRESS FIXTURE WITH BATTERY PACK		J-BOX AT 18" A.F.F. OR AS NOTED, FOR TELEPHONE / DATA OUTLET WITH 3/4" CONCENED-IN-WALL CONDUIT UP TO CEILING SPACE OR AS SHOWN. DO NOT DAISY CHAIN.
	EGRESS/EMERGENCY FIXTURE W/ BATTERY PACK		CONDUIT IN CEILING OR WALL, 1/2" MIN.
	WALL MOUNTED FIXTURE		HOME RUN TO PANEL WITH CIRCUIT NUMBER, SLASHES INDICATE NUMBER OF CONDUCTORS
	TROFFER LIGHT FIXTURE (SUB-LETTER INDICATES CONTROLLING SWITCH)		INDICATES WIRES AND CONDUIT OTHER THAN #12, 1/2" C - METALLIC CONDUIT, P.V.C - PLASTIC CONDUIT
	TROFFER LIGHT FIXTURE, ON EMERGENCY LIGHT CIRCUIT WITH BATTERY PACK		ISOLATED GROUND OR GROUND CONDUCTOR
	SIGN LIGHTS		FLEXIBLE CONDUIT CONNECTION AS REQUIRED
	0-10V OCCUPANCY SENSOR & DIMMING SWITCH LUTRON MS-Z101-V NOTE: SET TO 20-MINUTES DELAY. PROVIDE LOW VOLTAGE WIRING TO EACH FIXTURE. MAKE ALL FINAL CONNECTIONS AS REQUIRED. FIELD VERIFY.		277-120V SQ-D 9070 T75D18 CONTROL TRANSFORMER W/ ENCLOSURE & PRIMARY & SECONDARY PROTECTION
	DIMMER SWITCH, LEVITON 0710LFZ OR EQUAL		3/4"x48" PAINTED TELEPHONE BOARD
	OCCUPANCY SENSOR/SWITCH LEVITON ODS15-ID. NOTE: SET TO 20-MINUTES DELAY.		MECHANICAL UNIT
	SINGLE POLE SWITCH, +42"		TRANSFORMER
	SUB-LETTER INDICATES FIXTURE CONTROLLED, +42"		PANEL BOARD
	SINGLE POLE SWITCH WITH PILOT LIGHT, +42"		+48" INDICATES MOUNTING HEIGHT OF EQUIPMENT / OUTLET CENTER LINE ABOVE FINISH FLOOR
	SINGLE POLE SWITCH WITH KEY-LOCK, +42"		WP WEATHER-PROOF
	THREE POLE SWITCH, +42" SWITCH PROVIDED BY M.C., INSTALLED BY E.C., +42"		C.O. CONDUIT ONLY WITH PULL WIRES
	PUSH BUTTON, +42"		LRP LIGHTING CONTROL CENTER
	PUSH BUTTON FOR SHUNT TRIP, +42"		MSB MAIN SWITCHBOARD
	BUZZER WITH TRANSFORMER, +84" OR AS NOTED		MCB MAIN CIRCUIT BREAKER
	ISOLATED GROUND DUPLEX RECEPTACLE, +18" MIN. OR AS NOTED		MDP MAIN DISTRIBUTION PANEL
	ISOLATED GROUND FOUR-FLEX RECEPTACLE, +18" MIN. OR AS NOTED		MLO MAIN LUGS ONLY
	SINGLE PLUG-IN RECEPTACLE, +18" MIN. OR AS NOTED		DC DROP CORD
	DUPLEX RECEPTACLE, +18" MIN. OR AS NOTED		AFF ABOVE FINISH FLOOR
	FOUR-FLEX RECEPTACLE, +18" MIN. OR AS NOTED		GFI GROUND FAULT CIRCUIT INTERRUPTER
	SPECIAL PURPOSE OUTLET, +18" MIN. OR AS NOTED		GC GENERAL CONTRACTOR
	PLUGMOLD WITH RECEPTACLES. SEE SPECS		EC ELECTRICAL CONTRACTOR
	JUNCTION BOX, SIZE AND TYPE PER CODE		MC MECHANICAL CONTRACTOR
	GROUNDING PER CODE OR 3/4" DIAMETER 10' LONG STAINLESS STEEL GROUND ROD		XFMR TRANSFORMER
	FUSED DISCONNECT, COORDINATE W/ EQUIPMENT SUPPLIER		RMC RIGID METALLIC CONDUIT
	NON-FUSED DISCONNECT, COORDINATE W/ EQUIPMENT SUPPLIER		TYP. TYPICAL

A. DO NOT RUN UNDERGROUND CONDUITS UNDER FREEZERS IN
SLAB. UNDERGROUND CONDUITS SHALL BE 2" ABOVE SLAB.
B. MOUNT ALL OVERHEAD CONDUITS AT 25 MINIMUM IN MAIN
C. ALL OVERHEAD CONDUITS SHALL BE 18" ABOVE CEILING. DO NOT
D. MORE THAN 2 WIRE. DO NOT BLOCK LIGHTING & SKYLIGHTS
E. MINIMUM WIRE & CONDUIT SIZE ARE #12 CU & 1/2" TYP.
F. 20 AMP WIRE.
G. ALL BREAKER AIR RATINGS TO MATCH PANEL AIR RATINGS.
H. ALL UL LISTED EQUIPMENT SHALL BE INSTALLED AS PER THEIR
I. LISTING.
J. EMERGENCY LIGHTING SHALL BE UNSWITCHED FOR EL LIGHT
K. FIXTURES. SEE LIGHTING FIXTURE SCHEDULE.
L. ELECTRICAL FEEDERS SHALL BE INSTALLED (AHEAD OF OTHERS
M. BRANCH CIRCUIT FEEDERS, ETC.) SHALL BE OVERHEAD. NO
N. UNDERGROUND FEEDERS ALLOWED UNLESS OTHERWISE
O. NOTED.
P. ALL 20-AMP HOMERUNS TO HAVE MINIMUM #10 WIRES. IF MORE
Q. THAN 5 HOTS WIRE, INCREASE WIRE SIZE TO COMPENSATE FOR
R. VOLTAGE DROP.
S. THE DEFAULT WIRE SIZE IS #12 THW CU. E.C. IS RESPONSIBLE
T. TO PROVIDE HOT WIRE, NEUTRAL AND GROUNDING AS
U. REQUIRED. THIS IS NOT TO BE MISUSED TO OBTAIN SHORTCUTS
V. (PXXX, XXXX, CXXX) WITH NO WIRE SPECIFICATION.
W. E.C. TO USE AND PROVIDE PVC IF APPROVED BY LOCAL
X. AGENCIES. THIS IS NOT TO BE MISUSED TO OBTAIN APPROVED
Y. MATERIALS FOR ALL UNDERGROUND CONDUITS DUE TO
Z. CORROSIVE SOIL CONDITIONS. PROVIDE GROUND WIRE &
AA. GROUND CLAMP OR BUSHING.
AB. SEE SPECIFICATIONS FOR ALL MATERIALS.
AC. APPLICABLE CODE: 2023 NEC

E.C. IS TO VERIFY WITH THE UTILITY COMPANY THE SHORT CIRCUIT
 AVAILABLE PROVIDE ELECTRICAL SWITCHBOARD WITH SUFFICIENT FAULT
 CURRENT PROTECTION SO THAT ALL ELECTRICAL EQUIPMENT DOWN
 STREAM OF THE SWITCHBOARD IS PROTECTED RATING PANEL BOARDS TO
 BE UL TESTED, LISTED AND LABELED WITH SERIES CONNECTED
 RATINGS TO MEET OR EXCEED AVAILABLE FAULT CURRENT. PROVIDE
 ELECTRICAL SWITCHBOARDS WITH CIRCUIT BREAKERS AS REQUIRED BY
 STATE, LOCAL, AND THE NATIONAL ELECTRICAL CODES. PROVIDE
 BONDING BETWEEN SECTIONS FOR MULTI-SECTION SWITCHBOARDS AND
 PANELS.

ELECTRICAL EQUIPMENT INCLUDING SWITCHBOARD, DISTRIBUTION
 BOARDS AND TRANSFORMERS SHALL BE EQUIPPED WITH NON-
 COMBUSTIBLE SPRINKLER HOOD OR SHIELD.

PANEL METAL SHEET PAN UNDER ALL FREE STANDING ELECTRICAL
 PANEL BOARDS ON COMBUSTIBLE FLOOR.

DRY TYPE TRANSFORMERS OVER 112.5KVA SHALL BE COMPLETELY
 ENCLOSED, EXCEPT FOR VENTILATION OPENINGS PER NEC 450-21 (b).

TYPE	MANUFACTURER	NUMBER	DESCRIPTION	LAMP	MOUNT	WATT	COMMENTS
A	ILLUMADYNE	IG2-130-UNV-S16-M0-80-4000-SYN-FLEX WP-RING-6 WHIP	HIGHBAY LIGHT	LED	CHAIN	130	MOUNTING HEIGHTS REFER TO ARCH. PLAN/WAREHOUSE CLEARANCE HEIGHTS, SECTIONS AND DETAILS. TYPICALLY SHEET G301. SEE DETAIL. 4E-8
B	LITHONIA	DSXW2 LED P5 40K 70CRI T2M MVOLT SRM DBDX	WALLPACK	LED	WALL	57	PROVIDE 2 VERTICAL WHITE UNISTRUT VERTICAL BETWEEN MBS GIRTS ON INSIDE OF BUILDING TO SUPPORT FIXTURE. E.C. TO COORDINATE # OF BACKBOXES NEEDED WITH SUPPLIER.
B1	LITHONIA	DSXW2 LED P5 40K 70CRI T4M MVOLT SRM DBDX	WALLPACK	LED	WALL	57	PROVIDE 2 VERTICAL WHITE UNISTRUT VERTICAL BETWEEN MBS GIRTS ON INSIDE OF BUILDING TO SUPPORT FIXTURE. E.C. TO COORDINATE # OF BACKBOXES NEEDED WITH SUPPLIER.
B2	LITHONIA	DSXW1 LED P3 40K T2M MVOLT SRM DBDX	WALLPACK	LED	WALL	20	PROVIDE 2 VERTICAL WHITE UNISTRUT VERTICAL BETWEEN MBS GIRTS ON INSIDE OF BUILDING TO SUPPORT FIXTURE. E.C. TO COORDINATE # OF BACKBOXES NEEDED WITH SUPPLIER.
C	LITHONIA	FMVCSLS-48IN-MVOLT-30K35K40K(40K)-90CRI-BN	BATHROOM MIRROR LIGHT	LED	WALL	35	PROVIDE EARTHQUAKE CLIPS. CENTER ABOVE MIRROR. SELECT 40K AT TIME OF INSTALL.
D	LITHONIA	2GTL 4 G 72L LP840 E21 LATC	2X4 TROFFER	LED	RECESS	54	0-10V DIMMING (1%) DRIVER & EARTHQUAKE CLIPS
DEL	LITHONIA	2GTL 4 G 72L BLD LP840 E21 EL14W	2X4 TROFFER	LED	RECESS	54	0-10V DIMMING (1%) DRIVER & EARTHQUAKE CLIPS. PROVIDE EMERGENCY BATTERY PACK/OPTION WHERE INDICATED ON PLANS. INCLUDE ALL RELAY, TEST SWITCH, RED INDICATOR LIGHT, AND CAPACITY OF (1400 LUMEN) LIGHT OUTPUT FOR 90-MINUTES. NOT A NIGHT LIGHT. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
F	TECHLIGHT	LB-X-N-XX-S-1-D-BZ	SIGNAGE LIGHTING FIXTURE	LED	ARM	58	MAST ARM AND MOUNTING ACCESSORIES AS REQUIRED. SEE ARCHITECTURAL DETAIL. PROVIDE NEMA-3R ENCLOSURE FOR DRIVER.
F1	TECHLIGHT	LB-X-N-XX-O-1-D-BZ	SIGNAGE LIGHTING FIXTURE	LED	ARM	58	MAST ARM AND MOUNTING ACCESSORIES AS REQUIRED. SEE ARCHITECTURAL DETAIL. PROVIDE NEMA-3R ENCLOSURE FOR DRIVER.
F2	TECHLIGHT	LB-X-N-XX-S-1-D-BZ (LONG ARM) W/STRAIGHT ARM BRACKET	SIGNAGE LIGHTING FIXTURE	LED	ARM	58	MAST ARM AND MOUNTING ACCESSORIES AS REQUIRED. SEE ARCHITECTURAL DETAIL. PROVIDE NEMA-3R ENCLOSURE FOR DRIVER.
J	COOPER	4WSN_LED-LD4-S2HL-A-UNV/L840-CD1-U	CEILING LIGHT	LED	SURFACE/ CHAIN	53	MOUNT @ 10'-0" A.F.F. W/ AIRCRAFT CABLES. CHAIN MOUNT BELOW PIPING AS NEEDED. E.C. TO PROVIDE ALL MOUNTING ACCESSORIES. NO SUBSTITUTIONS ALLOWED.
J1	COOPER	4SWLED-LW-LD4-LD840-S2HL-UNV-CD1-SV-PD1	CEILING LIGHT	LED	SURFACE/ CHAIN	53	PROVIDE EMERGENCY BATTERY PACK OPTION WHERE INDICATED ON PLANS. INCLUDE ALL RELAY, TEST SWITCH, RED INDICATOR LIGHT, AND CAPACITY OF (1400 LUMEN) LIGHT OUTPUT FOR 90-MINUTES. NOT A NIGHT LIGHT. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
J1EL	COOPER	4SWLED-LW-LD4-L840-S2HL-UNV-CD1-SVPD1	CEILING LIGHT	LED	SURFACE/ CHAIN	47	PROVIDE EMERGENCY BATTERY PACK OPTION WHERE INDICATED ON PLANS. INCLUDE ALL RELAY, TEST SWITCH, RED INDICATOR LIGHT, AND CAPACITY OF (1400 LUMEN) LIGHT OUTPUT FOR 90-MINUTES. NOT A NIGHT LIGHT. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
JEL	COOPER	4WSN_LED-LD4-A-UNV/L840-CD1-U-EL14	CEILING LIGHT	LED	SURFACE/ CHAIN	53	PROVIDE EMERGENCY BATTERY PACK OPTION WHERE INDICATED ON PLANS. INCLUDE ALL RELAY, TEST SWITCH, RED INDICATOR LIGHT, AND CAPACITY OF (1400 LUMEN) LIGHT OUTPUT FOR 90-MINUTES. NOT A NIGHT LIGHT. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
L	ILLUMADYNE	CC-125-UNV-QA-80-4000K	CANOPY LIGHTS	LED	CHAIN	125	PAINT CONDUIT & J-BOX WHITE. BOTTOM OF FIXTURES AT +15' A.F.F. PROVIDE MOUNTING ACCESSORIES (SWIVEL). PROVIDE SAFETY CHAIN TO BUILDING STRUCTURE. MOUNT ON (2) UNISTRUT SUPPORTED BETWEEN STRUCTURE. PAINT CONDUIT, SUPPORT & J-BOX WHITE PROVIDE SHIMS TO MOUNT LEVEL.
Q	TECHLIGHT	CSL-S-N90-LD-82-1-WH WOCT	LOWBAY LIGHTS	LED	SURFACE	82	SUPPORT FROM UNISTRUT ABOVE CHAIN LINK FENCE CEILING, MOUNT FIXTURE BELOW CHAIN LINK FENCE CEILING.
T	LITHONIA	CLX L96 10000LM HEF RDL MVOLT G210 40K	INDOOR LIGHTING	LED	PENDANT/ SURFACE	90	MOUNT @ 10'-0" A.F.F. W/ AIRCRAFT CABLES. CHAIN MOUNT BELOW PIPING AS NEEDED. E.C. TO PROVIDE ALL MOUNTING ACCESSORIES. NO SUBSTITUTIONS ALLOWED.
T1	LITHONIA	CLX L48 5000LM HEF RDL MVOLT G210 40K	INDOOR LIGHTING	LED	PENDANT/ SURFACE	40	SAME AS TYPE T. NO SUBSTITUTIONS ALLOWED.
T1EL	LITHONIA	CLX L48 5000LM HEF RDL MVOLT G210 40K 90CRI WH E10W	INDOOR LIGHTING	LED	PENDANT/ SURFACE	40	SAME AS TYPE T. NO SUBSTITUTIONS ALLOWED. PROVIDE EMERGENCY BATTERY PACK OPTION WHERE INDICATED ON PLANS. INCLUDE ALL RELAY, TEST SWITCH, RED INDICATOR LIGHT, AND CAPACITY OF (1400 LUMEN) LIGHT OUTPUT FOR 90-MINUTES. NOT A NIGHT LIGHT. PROVIDE SELF DIAGNO
TEL	LITHONIA	CLX L96 10000LM HEF RDL MVOLT G210 40K 90CRI WH E10W	INDOOR LIGHTING	LED	PENDANT/ SURFACE	90	SAME AS TYPE T. NO SUBSTITUTIONS ALLOWED. PROVIDE EMERGENCY BATTERY PACK OPTION WHERE INDICATED ON PLANS. INCLUDE ALL RELAY, TEST SWITCH, RED INDICATOR LIGHT, AND CAPACITY OF (1400 LUMEN) LIGHT OUTPUT FOR 90-MINUTES. NOT A NIGHT LIGHT. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
X	LIGHTALARMS	3MC12G1LD10M-DSC-CBKT-ID-T3 W/SELF POWERED BATTERY PACK	EMERGENCY LIGHTING	3-6W LED	UNIVERSAL	18	+25' AFF ON TRUS (SEE DETAIL) IN EMERGENCY CORRIDOR. PROVIDE MOUNTING ACCESSORIES AS REQUIRED. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
X1	LIGHTALARMS	CR122AMR-1N-W-2LD9-INDA-T3 (BATTERY RATING 24-WATT FOR 90 MINUTES)	EXIT SIGN WITH LIGHT	LED EXIT 2-5W LED	UNIVERSAL	26	EXIT SHALL BE WHITE WITH RED LETTERS AND TWO LED HEADS. MOUNT ABOVE DOOR. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
X2	LIGHTALARMS	GRAN-ND-R-W W/ SELF POWERED BATTERY PACK	EXIT SIGN WITH LIGHT	LED	CHAIN(2)	3	DOUBLE FACE EXIT. (+23' SEE NOTE) ARROW AS INDICATE WITH RED LETTER ON WHITE. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
X3	LIGHTALARMS	SAP-2AFD-DB-DSC-12V-CL	REMOTE HEAD	2-5W LED	WALL	10	CONNECT POWER TO X1'S BATTERY UNIT. LAMP AIMING: LAMP #1 50' FROM VERTICAL. LAMP #2 85' FROM VERTICAL. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.

SHEET	DESCRIPTION
E-1	ONE LINE DIAGRAM, LEGEND, LIGHTING FIXTURE SCHEDULE, SHEET LIST AND NOTES
E-2	POWER PLAN
E-3	LIGHTING PLAN
E-4	OFFICE, PHARMACY, HEARING, OPTICAL, PUBLIC RESTROOM - POWER AND LIGHTING PLANS, DETAIL & NOTES
E-5	FRESHLINE POWER & DEMO ROOM LIGHTING PLAN, EQUIPMENT LIST, DETAILS, AND NOTES
E-6	FOOD SERVICE - POWER PLAN, EQUIPMENT LIST, DETAIL AND NOTES
E-7	ICE CENTER, MECHANICAL ROOM POWER & LIGHTING PLANS, DETAILS AND NOTES
E-8	PANEL SCHEDULES
E-9	PANEL SCHEDULES
E-10	PANEL SCHEDULES, CONTROL SCHEDULE
E-11	CANOPY HEAT TAPE POWER PLAN
E-12	SITE LIGHTING PLAN

	(KVA)	(KVA)
LIGHTING	5.86	126.16
REFrigerATORS	178.85	
FREEZER/COOLER	204.12	782.64
UNIT HEATERS/BASEBOARD	17.68	82.23
BATTERY CHARGERS		86.72
AIR CONDITIONING	27.20	559.22
WATER HEATERS	2.79	
EXHAUST FANS	37.18	
MOTORS	115.94	129.35
KITCHEN (65% DEMAND FACTOR)	109.69	31.75
ELECT. PANEL	6	6
	700.02	1814.07
TOTAL CONNECTED LOAD=2514.09 KVA (3024.45 AMPERES)		
MAIN SERVICE SIZE = 3000 AMPERES AT 480 VOLTS 3 PHASE 4 WIRE		
DEMAND LOAD = 2514.09 KVA - 70%KVA = 2444.09 KVA (2940.24 AMPERES)		

(100,000 AIC MIN, 100% RATED)

(100,000 AIC MIN, 100% RATED)

NO SCALE

NOTE: COORDINATE INSTALLATION OF FIXTURE TYPES "X", "X1", "X2", & "X3" WITH FIRE MARSHAL. MOUNTING HEIGHTS MAY BE LOWERED ONLY IF DIRECTED IN WRITING BY FIRE MARSHAL.

DFR # 184005536
 XP: 04/30/2027

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DATE	DESCRIPTION
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NEW WAREHOUSE

LEE'S SUMMIT, MO

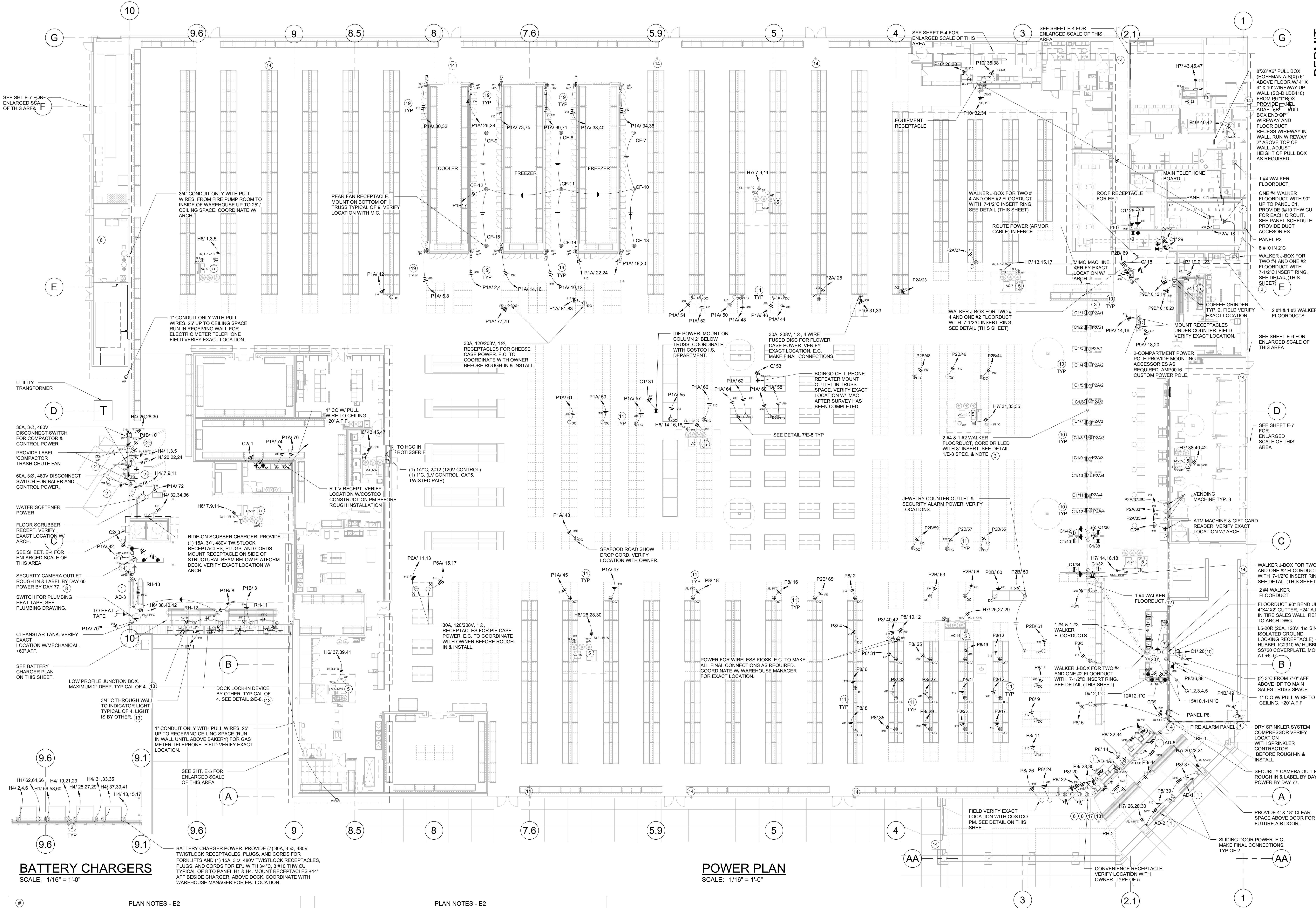
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TEI #: 25-346
PM: MW

CHECKED BY: JGM
ISSUED: 12/22/25

ONE LINE DIAGRAM, LEGEND
LIGHTING FIXTURE
SCHEDULE, SHEET LIST AND
NOTES

E-1



BATTERY CHARGERS

SCALE: 1/16" = 1'-0"

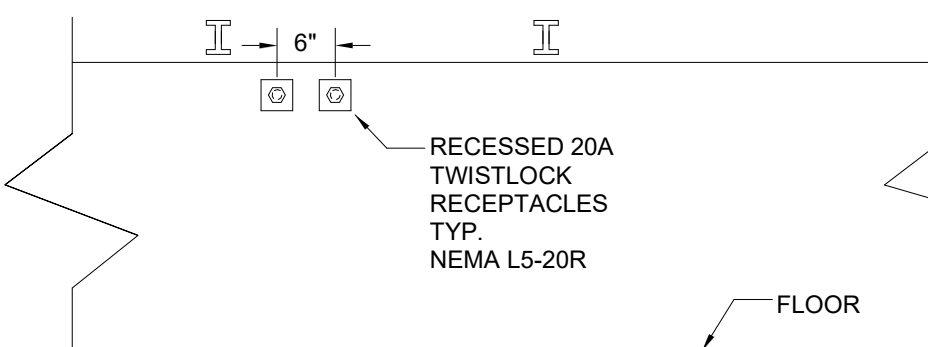
PLAN NOTES - E2

- E.C. TO MAKE ALL CONNECTIONS TO BATTERY CHARGERS & AIR DOORS INCLUDING CONTROL WIRING.
- COMPACTOR, BALER, AND BATTERY CHARGERS FURNISHED BY OWNER. ALL ELECTRICAL DEVICES ARE PROVIDED AND INSTALLED BY E.C. E.C. TO MAKE ALL FINAL CONNECTIONS. VERIFY WITH G.C. AND EQUIPMENT SUPPLIER FOR ACTUAL ELECTRICAL RATINGS. CONNECTION AS REQUIRED.
- FLOOR DUCT BY E.C. COORDINATE INSTALLATION WITH G.C./B.M. FLOOR RECEPTACLES ARE PART OF WALKERDUCT PACKAGE. INSTALL PER MANUFACTURER'S INSTRUCTION. PROVIDE FITTINGS, J-BOXES AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE AN ADDITIONAL 1/2" THICK COVERPLATE FOR WALKERDUCT J-BOX AS SHOWN IN DETAIL. FLUSH MOUNT ON FLOOR. VERIFY EXACT LOCATIONS PRIOR TO ROUGH IN. E.C. SHALL MAKE ALL FINAL CONNECTIONS TO CASH REGISTERS. PROVIDE FEEDERS FROM FLOOR DUCT ACCESS TO RECEPTACLES IN REGISTER CENTER BASE. FEEDERS IN HARD CONDUIT WHERE EXPOSED. SEE 1.8.M. DIAGRAM.
- OVERHEAD CONDUITS FROM SALES AREAS TO ELECTRICAL ROOM SHALL BE RUN ABOVE OFFICE AREA. DO NOT RUN ON WALL. SEE GENERAL NOTES ON E-1.
- MAU AND AC UNITS ARE LOCATED ON ROOF. VERIFY EXACT LOCATION WITH M.C. BEFORE ROUGH-IN INSTALLATION. HVAC POWER SHALL BE OVERHEAD. DO NOT RUN CONDUIT UNDERGROUND OR ON ROOF. DISCONNECT ROOF RECEPTACLE ARE PART OF UNIT EXCEPT FOR MAU. E.C. PROVIDE HACR BREAKER IN NEMA-3R ENCLOSURE AND WP. GFI ROOF RECEPTACLE.
- SEE SPECIFICATIONS FOR FIRE SPRINKLER SYSTEM POWER. E.C. MAKES FINAL CONNECTIONS FOR A COMPLETE SYSTEM.
- E.C. TO RECESS ALL ELECTRICAL EQUIPMENT ON MEMBERSHIP WALL IN WALL IF POSSIBLE. CONCEAL ALL CONDUITS IN WALL. SEE ARCH ELEVATION FOR LOCATIONS.
- E.C. AND G.C. TO COORDINATE WITH SECURITY SYSTEM CONTRACTOR SUCH THAT SECURITY CONTRACTOR CAN INSTALL SECURITY SYSTEM CONDUIT PRIOR TO WALLS BEING CLOSED UP.

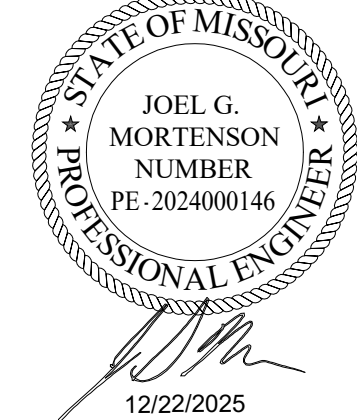
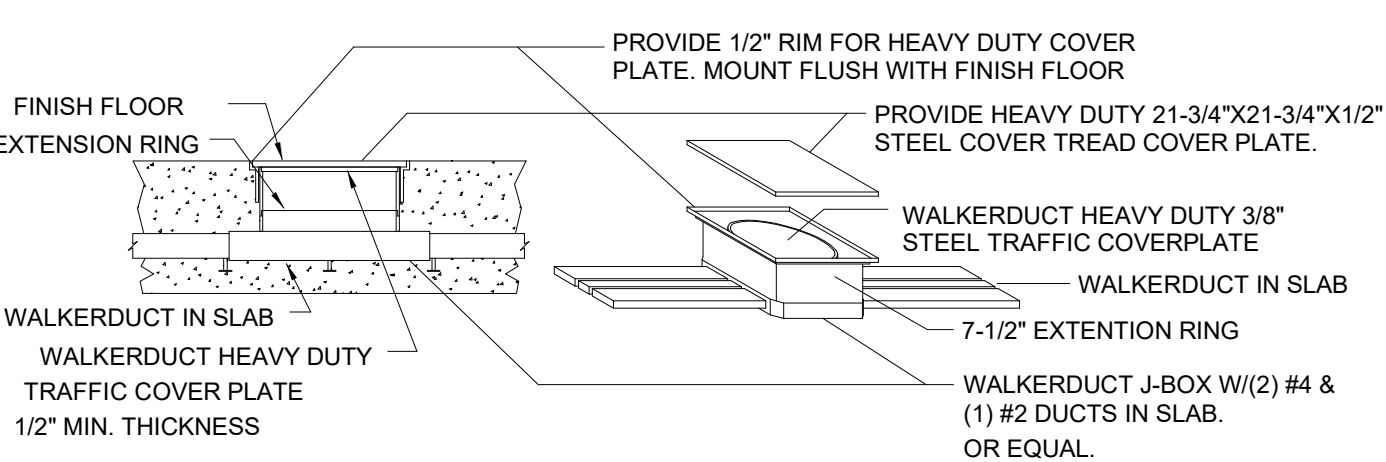
PLAN NOTES - E2

- PROVIDE A COMPLETE FIRE ALARM SYSTEM INCLUDING ALL HVAC DUCT DETECTORS. PROVIDE SHOP DRAWINGS & APPROVED DRAWINGS FROM LOCAL FIRE MARSHAL FOR FIRE ALARM SYSTEM. SEE FIRE ALARM SPECIFICATION.
- E.C. PROVIDE RED COVERPLATE AND ORANGE IG RECEPTACLES FOR ALL PANEL C1 RECEPTACLES. PROVIDE LABEL UPS PROTECTED OUTLET. I.S. EQUIPMENT ONLY AT TOP OF COVERPLATE AND C1 (CIRCUIT 8) AT BOTTOM.
- E.C. TO VERIFY EXACT LOCATION WITH COSTCO CONSTRUCTION PROJECT MANAGER FOR SALES AREA DROP CORDS. TYPICAL NUMBER OF DROP CORDS SHOWN IN CONTRACT SET IS MAXIMUM ALLOWED IN BUILDING CONTRACT. NO ADDITIONAL ALLOWED IN BUILDING CONTRACT.
- RUN 1/4" WALKERDUCT FROM J-BOX TO GUTTER AS SHOWN. PROVIDE BEND, FITTING ETC. AS REQUIRED.
- E.C. SHALL MAKE ALL FINAL CONNECTIONS. COORDINATE WITH SERCO SUPPLIER BEFORE INSTALLATION. SEE DETAIL 2/E-6.
- DOOR HARDWARE: E.C. SHALL PROVIDE SQ-D CLASS 9070 T775018 STEP-DOWN TRANSFORMER WITH CLASS 9091 ENCLOSURE. PRIMARY DISCONNECT, PRIMARY AND SECONDARY FUSING (FBSA FOLDER, 0.5A PRIMARY FUSES, 0.75A SECONDARY FUSES) AND ALL LOW VOLTAGE WIRING. SEE SPECIFICATION.
- E.C. TO PROVIDE PULL STRING AND TAG AT BOTH ENDS FOR FUTURE CASH REGISTER (FROM EACH FUTURE REGISTER TO EACH PANEL (P2 & C1)).
- MOUNT IDF RECEPTACLE @7'-0" ADD ON WALL ABOVE IDF.
- E.C. SHALL PROVIDE 3/4" C.D. WITH PULL STRING FROM ALL KNOX BOXES TO THE JOIST SPACE ABOVE. CONDUIT SHALL BE WITHIN WALL SPACE AND NOT SURFACE MOUNT. SEE FIRE PROTECTION DRAWINGS FOR KNOX BOXES LOCATIONS.
- E.C. TO RUN 1" CONDUIT FROM WAREHOUSE ENTRY TO EDP ROOM FOR FUEL FACILITY ALARM EQUIPMENT. SEE ARCHITECT DRAWINGS FOR EXACT LOCATION.
- RECEPTACLES MOUNTED ON POS COOLER/FREEZER ARE GFI RECEPTACLE IN CAST BOX WITH FLIP COVERS. RECESS IN COOLER BOX WHEN POSSIBLE.
- E.C. DUCT ACCESS UNDER MEMBERSHIP COUNTER AND CONNECT FLOATING MEMBERSHIP DESK POWER FROM MAIN MEMBERSHIP POWER AS SHOWN.

TEMPORARY CANOPY POWER DETAIL



WALKER J-BOX DETAIL



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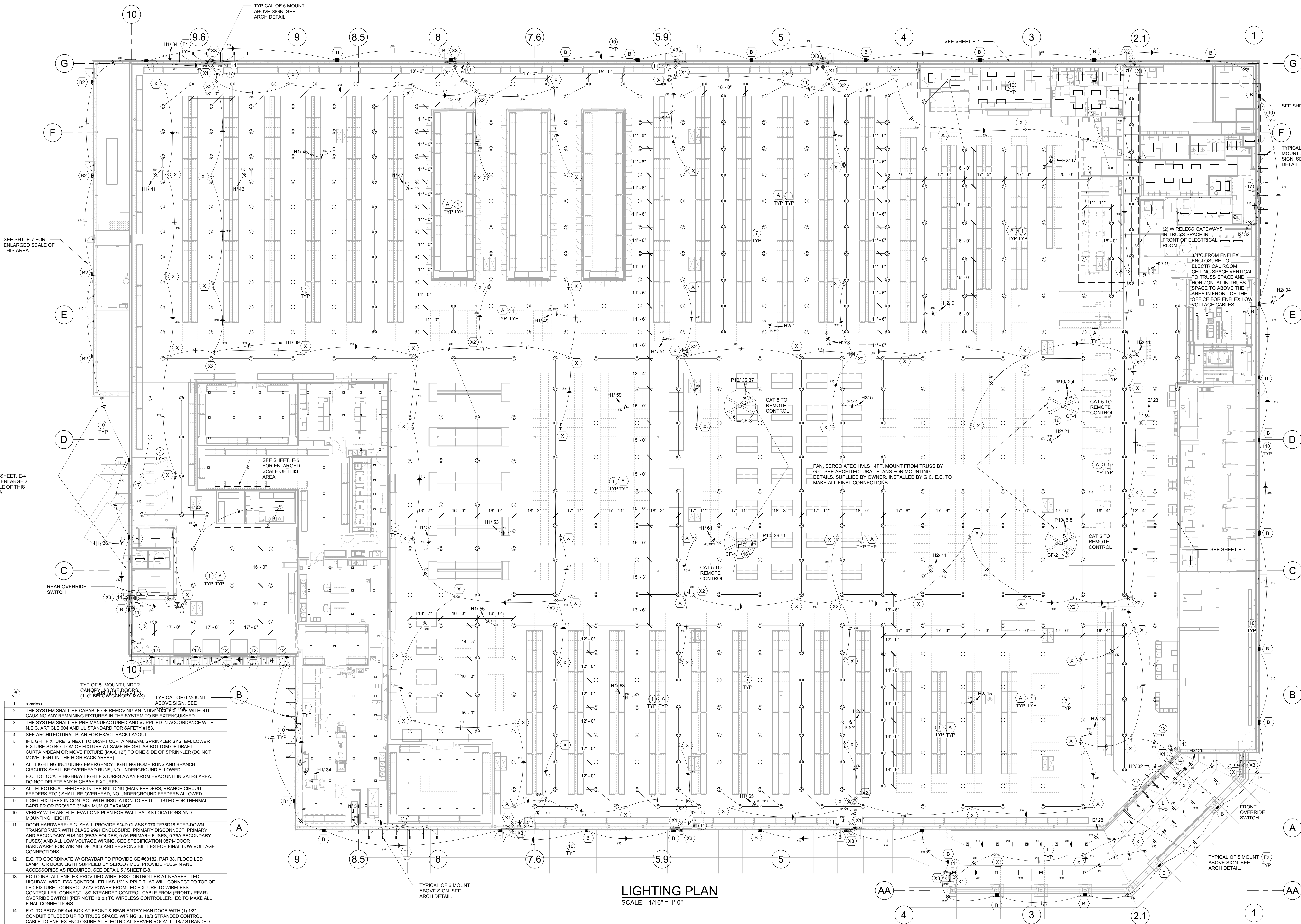
NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO
WHOLESALE

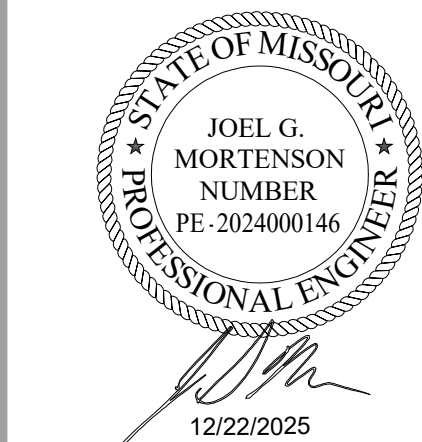
TEI #: 25-346
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ISSUED: 12/22/25

POWER PLAN

E-2



LIGHTING PLAN
SCALE: 1/16" = 1'-0"

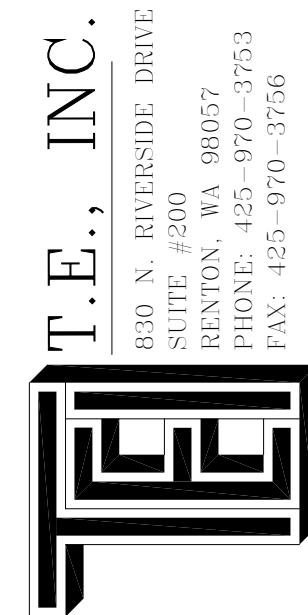


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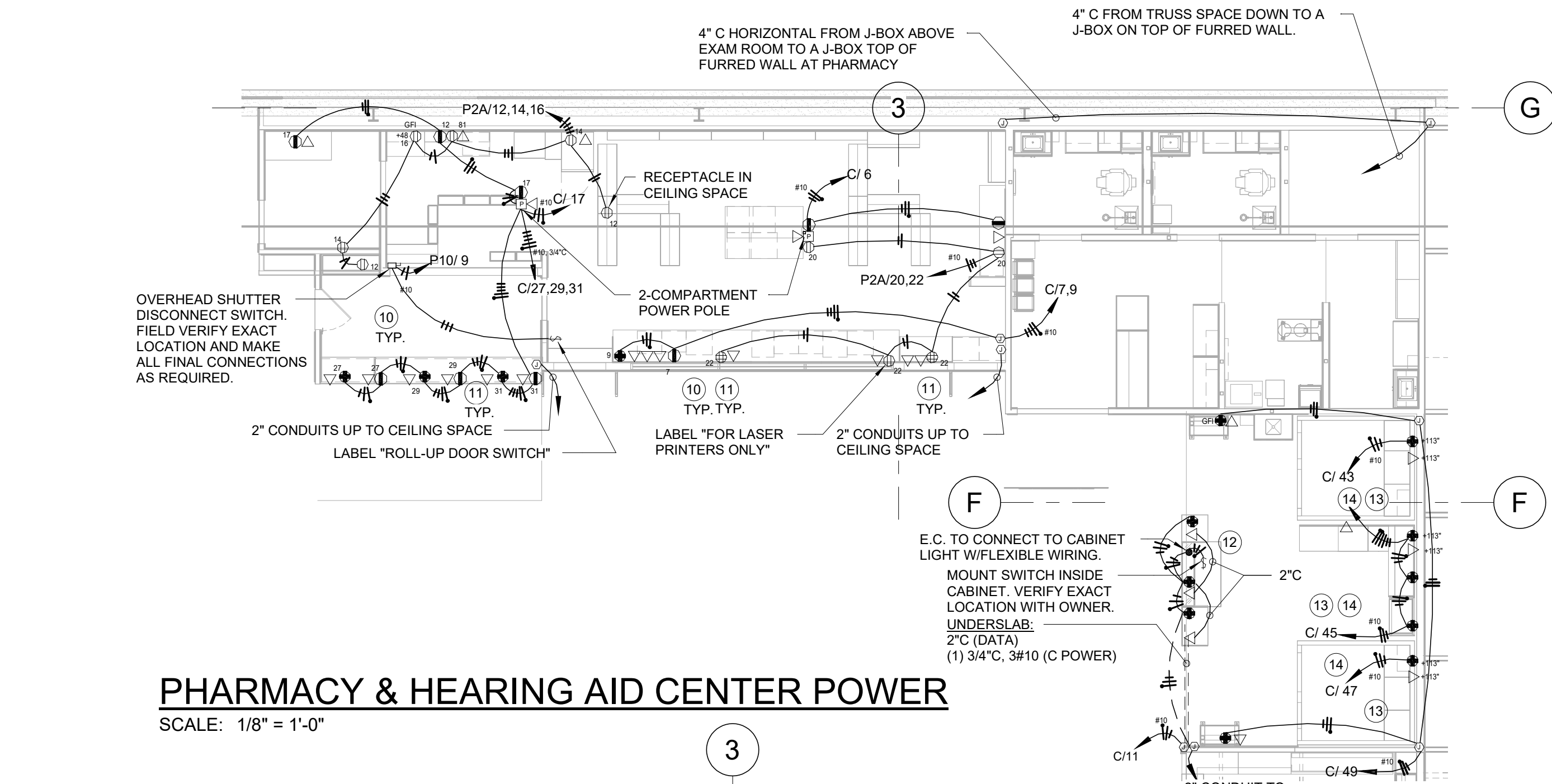
NEW WAREHOUSE
LEE'S SUMMIT, MO



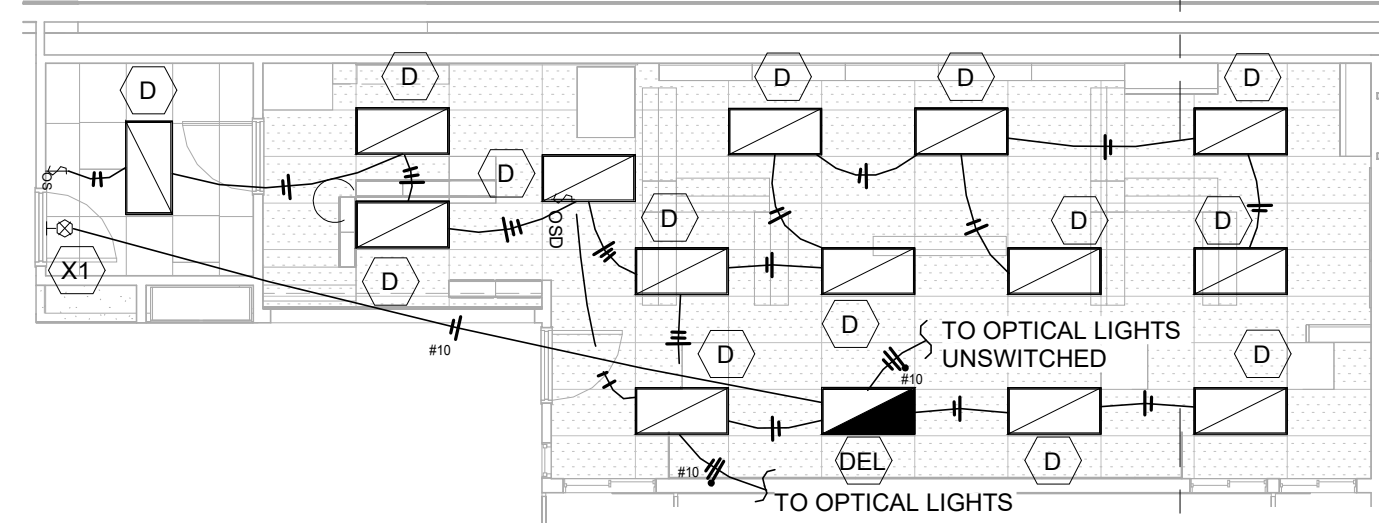
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ISSUED: 12/22/25

LIGHTING PLAN

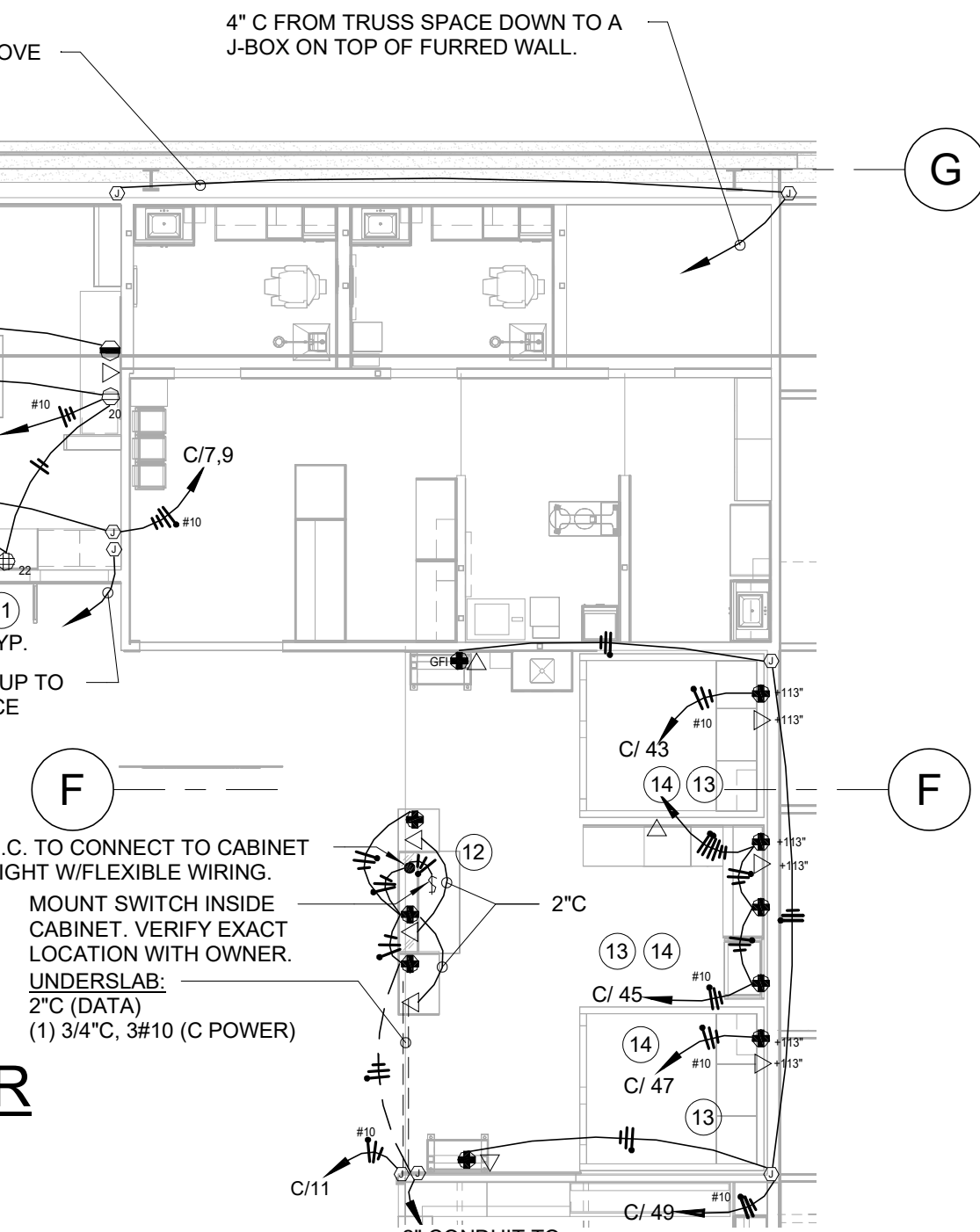
E-3

**PHARMACY & HEARING AID CENTER POWER**

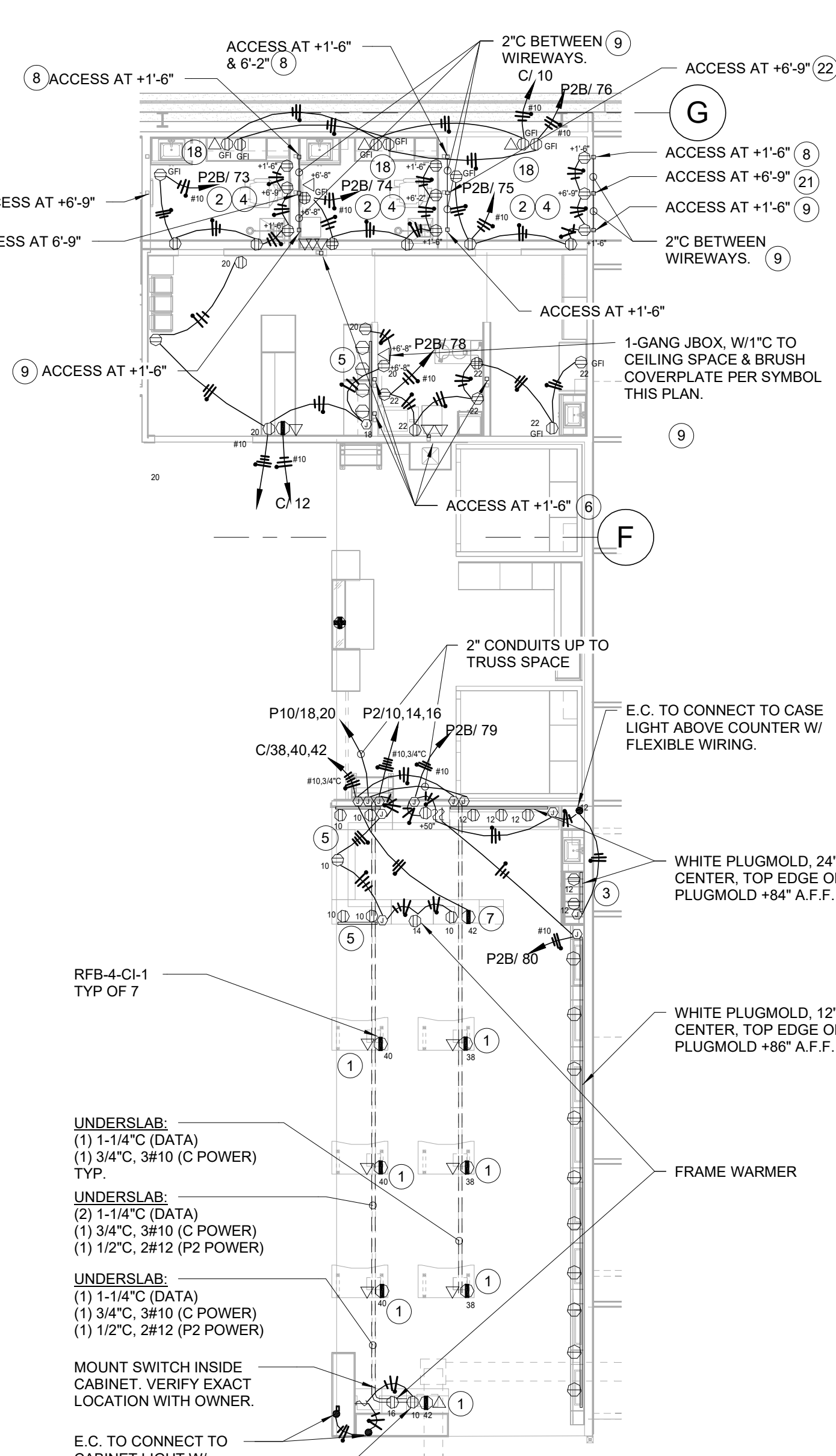
SCALE: 1/8" = 1'-0"

**PHARMACY LIGHTING**

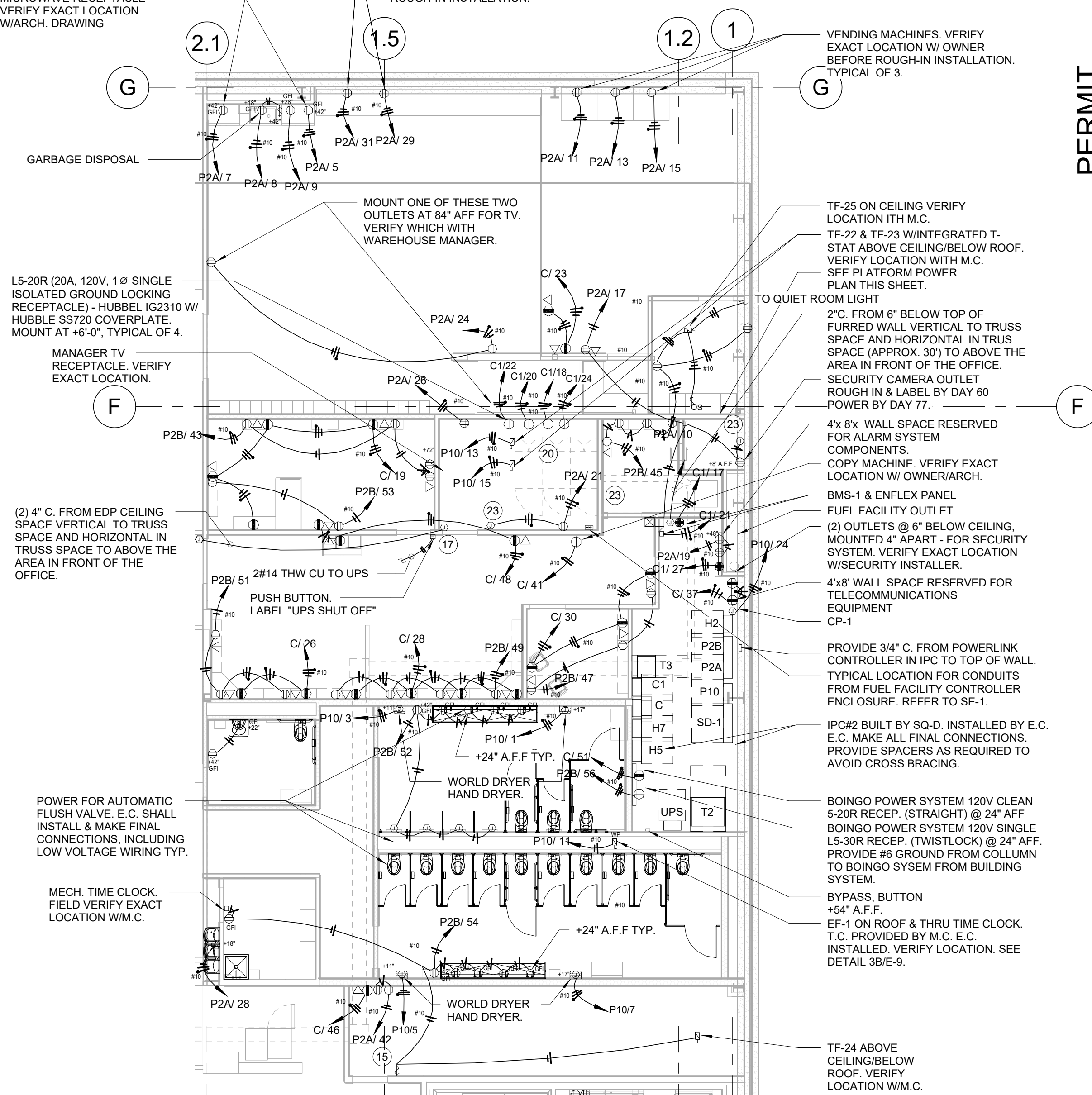
SCALE: 1/8" = 1'-0"

**OPTICAL LIGHTING**

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

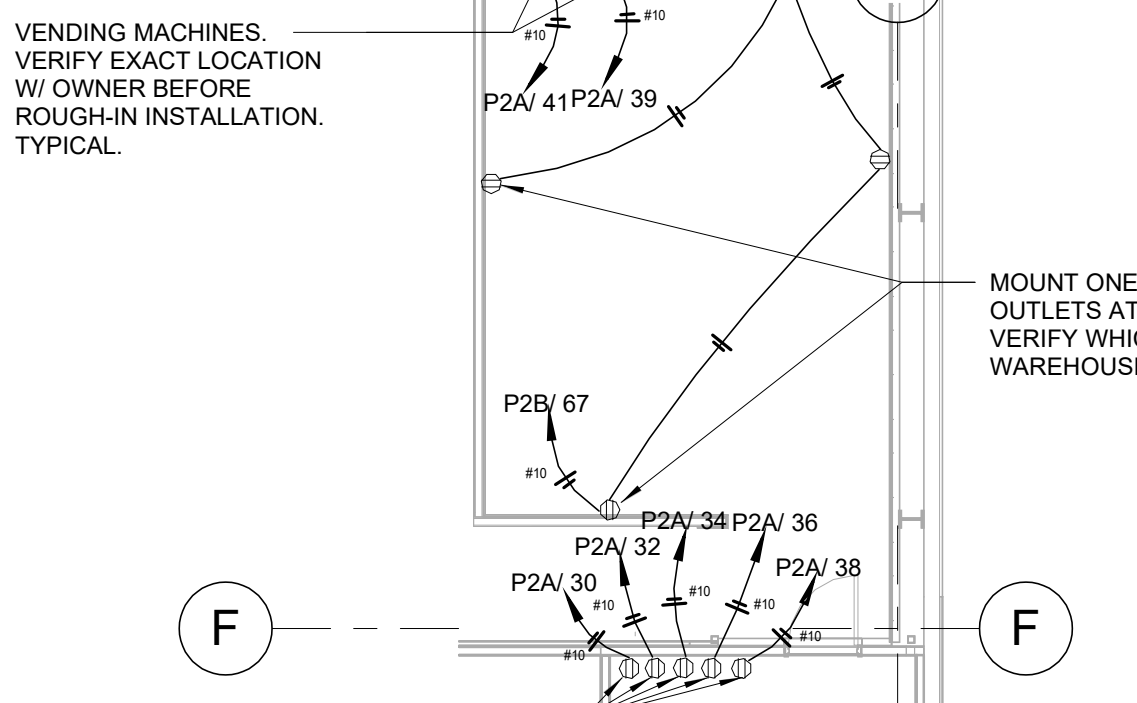
**OPTICAL POWER**

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

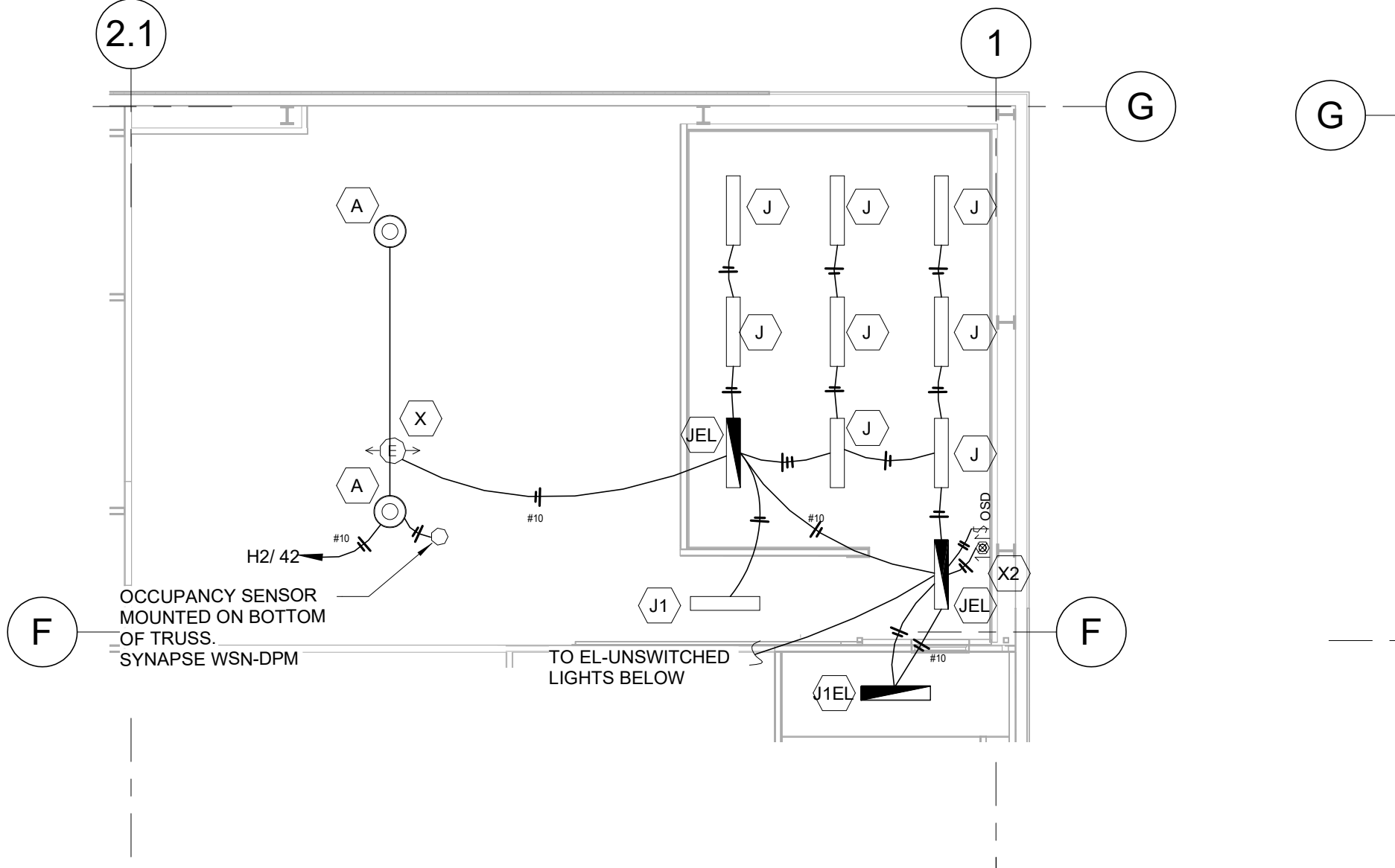
**OFFICE, RR & ELEC. ROOM POWER**

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

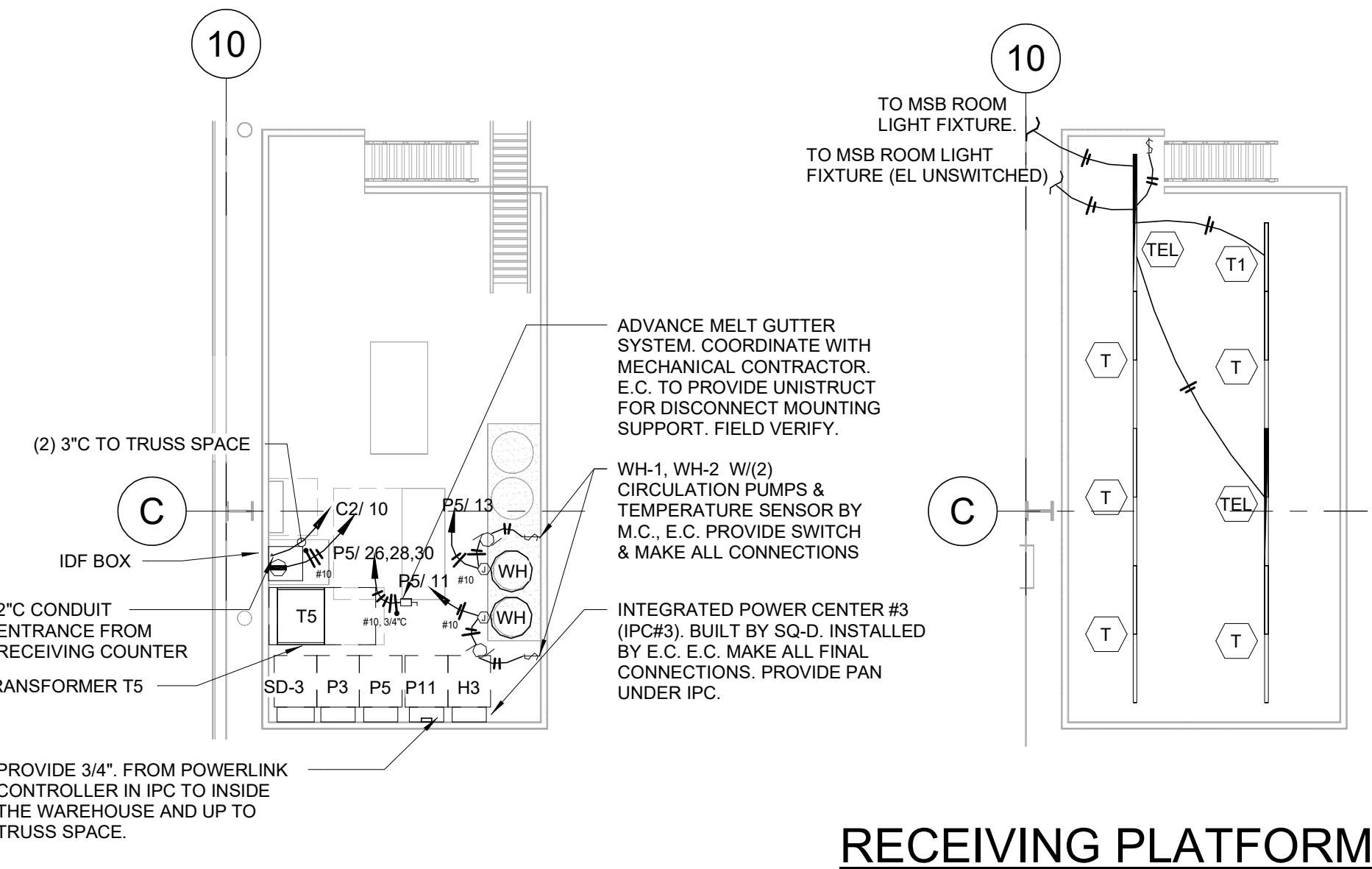
#	PLAN NOTES - E-4
1	FLOOR BOX & ASSOCIATED ACCESSORIES (MAKE: LEGRAND, MODEL: RFB-4-CL1, CLT-2AB, FPBCTBK, FP-CTR, & PKER-30) FOR RECEPTACLE AND DATA OUTLET. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN INSTALLATION.
2	E.C. TO MAKE ALL FINAL ELECTRICAL CONNECTIONS (INCLUDING LOW-VOLTAGE) FOR ALL OWNER SUPPLIED EQUIPMENT.
3	PLUGMOLD & LIGHTING IN KIOSK ARE SUPPLIED BY OWNER. INSTALLED BY ELECTRICAL CONTRACTOR.
4	ALL OUTLETS, LIGHT SWITCHES, ELECTRICAL DEVICE, OUTLETS SHALL ALSO BE TAMPER RESISTANT IN EXAM ROOMS SHALL BE HOSPITAL GRADE. NO M.C. (FLEX) WIRING ALLOWED. PER NEC 517-13.
5	PROVIDE PLUGMOLD, WITH RECEPTACLE EVERY 12" ON CENTER. MOUNT PLUGMOLD ABOVE COUNTER.
6	WHITE 2-GANG BRUSH COVERPLATE, WITH LOW VOLTAGE 2-GANG MOUNTING PLATE WITH ACCESS PENETRATION (2-1/2" SNAP IN BUSHING) TO HOFFMAN 3"x3" WIREWAY FOR OWNER INSTALLED DATA CABLING AT HEIGHTS SHOWN ON POWER PLAN. PROVIDE AN ADDITIONAL 2-1/2" SNAP IN BUSHING TO HOFFMAN 3"x3" WIREWAY AT 8'-0" IN CEILING SPACE. NO COVERPLATE NEEDED. TYPICAL FOR ALL DATA CHASES. PROVIDE ALL ACCESSORIES AS REQUIRED. BUSHING, COVERPLATE, MOUNTING PLATE & 3/4" HOFFMAN 3"x3" WIREWAYS TO BE PURCHASED / SUPPLIED FROM GRAYBAR ELECTRIC (206-292-4848). SEE DETAIL 15E-8 AND ARCHITECTURAL OPTICAL PLANS. PROVIDE PULL STRING IN CHASES.
7	MOUNT CLEAN POWER RECEPTACLE IN LOWER CABINETRY ON THE INNER SIDE WALL OF CABINET TO MAKE SURE CABINET DRAWER CAN CLOSE PROPERLY WITH CORD PLUGGED INTO THE RECEPTACLE. COORDINATE EXACT LOCATION WITH REGIONAL OPTICAL MANAGER.
8	SAME AS NOTE #6, EXCEPT USE HOFFMANN 4"x4" WIREWAY AT THIS LOCATION IN EACH OPTICAL EXAM.
9	WHITE 2-GANG BRUSH COVERPLATE, WITH LOW VOLTAGE 2-GANG MOUNTING PLATE WITH ACCESS PENETRATION (2-1/2" SNAP IN BUSHING) TO HOFFMAN 4"x4" (X1/2") WIREWAY FOR OWNER INSTALLED DATA CABLING AT HEIGHTS SHOWN ON POWER PLAN. PROVIDE 2" HORIZONTAL CONDUIT BETWEEN THE (2) 4"x4" WIREWAYS IN EACH EXAM ROOM. 1-FT HOFFMAN 4"x4" WIREWAYS TO BE PURCHASED / SUPPLIED FROM GRAYBAR ELECTRIC (206-292-4848). SEE DETAIL 15E-8 AND ARCHITECTURAL OPTICAL PLANS. PROVIDE PULL STRING IN CHASES.
10	MOUNT RECEPTABLES, DATA/TELEPHONE OUTLETS, J-BOXES ETC. INSIDE COUNTER. ROUTE CONDUITS TO WALL FOR VERTICAL RUNS. PROVIDE 3/4" FROM EACH INDIVIDUAL DATA/TELEPHONE OUTLET TO SIDE WALL J-BOX. COORDINATE WITH DATA INSTALLER FOR EXACT REQUIREMENT.
11	MOUNT RECEPTABLES, DATA/TELEPHONE OUTLETS, J-BOXES ETC. RECESSED IN WALL. RUN HORIZONTAL CONDUITS CONCEALED IN WALL TO SIDE WALL FOR VERTICAL RUNS CONCEALED IN WALL UP TO CEILING. PROVIDE 3/4" FROM EACH INDIVIDUAL DATA/TELEPHONE OUTLET TO SIDE WALL J-BOX, WHICH CONTINUES WITH 2" CONDUIT UP TO CEILING. NO SURFACE-MOUNTED CONDUIT / J-BOX ALLOWED.
12	MOUNT RECEPTACLE INSIDE CABINET FOR CASH REGISTER. PROVIDE GROUND WIRES.
13	RECEPTACLE FOR BOOTH AND LIGHTING & OUTLETS. E.C. TO MAKE ALL FINAL CONNECTIONS.
14	NO CONDUIT ATTACHED TO OR TOUCHING BOOTH.
15	E.C. TO PROVIDE & INSTALL MARK TIMER IN SINGLE GANX BOX TO CONTROL TRANSFER FAN. MANUFACTURER: INTERMATIC MODEL#FF12HC
16	LIGHTING IN ELECTRICAL ROOM SHALL BE CONNECTED TO UNPITCHED / EL BREAKER POLE.
17	UPS SHUT-DOWN PUSH-BUTTON (S-0-D) #RPH13, W/ INTERMATIC WP101 (MXD COVER). PROVIDE RED LAMACOID LABEL "UPS SHUTOFF". LOCATE BUTTON 6" FROM HIDGE OF DOOR OUTSIDE OF ROOM. 6" ABOVE FLOOR.
18	E.C. TO LABEL "CLEAN POWER" AT TOP OF COVERPLATE AND "C" (CIRCUIT #) AT BOTTOM.
19	E.C. PROVIDE RED COVERPLATE AND ORANGE IG RECEPTABLES FOR ALL PANEL. C1 RECEPTABLES. PROVIDE LABEL. UPS PROTECTED OUTLET, I.S. EQUIPMENT ONLY AT TOP OF COVERPLATE AND "C" (CIRCUIT #) AT BOTTOM.
20	E.C. SUPPLY AND INSTALL 6"X6"X4" NEMA-1 ENCLOSURE ABOVE CEILING NEAR TF-22 AND TF-23 FOR AIR BALANCE KIT (KIT SUPPLIED BY M.C.). MOUNT KIT AND SUPPLY POWER. LOW VOLTAGE WIRING BY M.C.
21	SAME AS NOTE #6, EXCEPT USE HOFFMANN 5" 3"x3" WIREWAY AT THIS LOCATION. E.C. FIELD CUT.
22	SAME AS NOTE#6, EXCEPT USE HOFFMANN 5" 3"x3" WIREWAY AT THIS LOCATION. ACCESS ON BOTH SIDES OF WALL. WIREMOLD (4037-2) ATTACHMENT RINGS.
23	E.C. TO MAKE CONNECTION TO DOOR MAGLOCK POWER SUPPLY. COORDINATE WITH VENDOR AND FIELD VERIFY EXACT LOCATION.

**LOCKER ROOM MEZ POWER**

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

**EMPLOYEE LOCKER MEZZANINE LIGHTING**

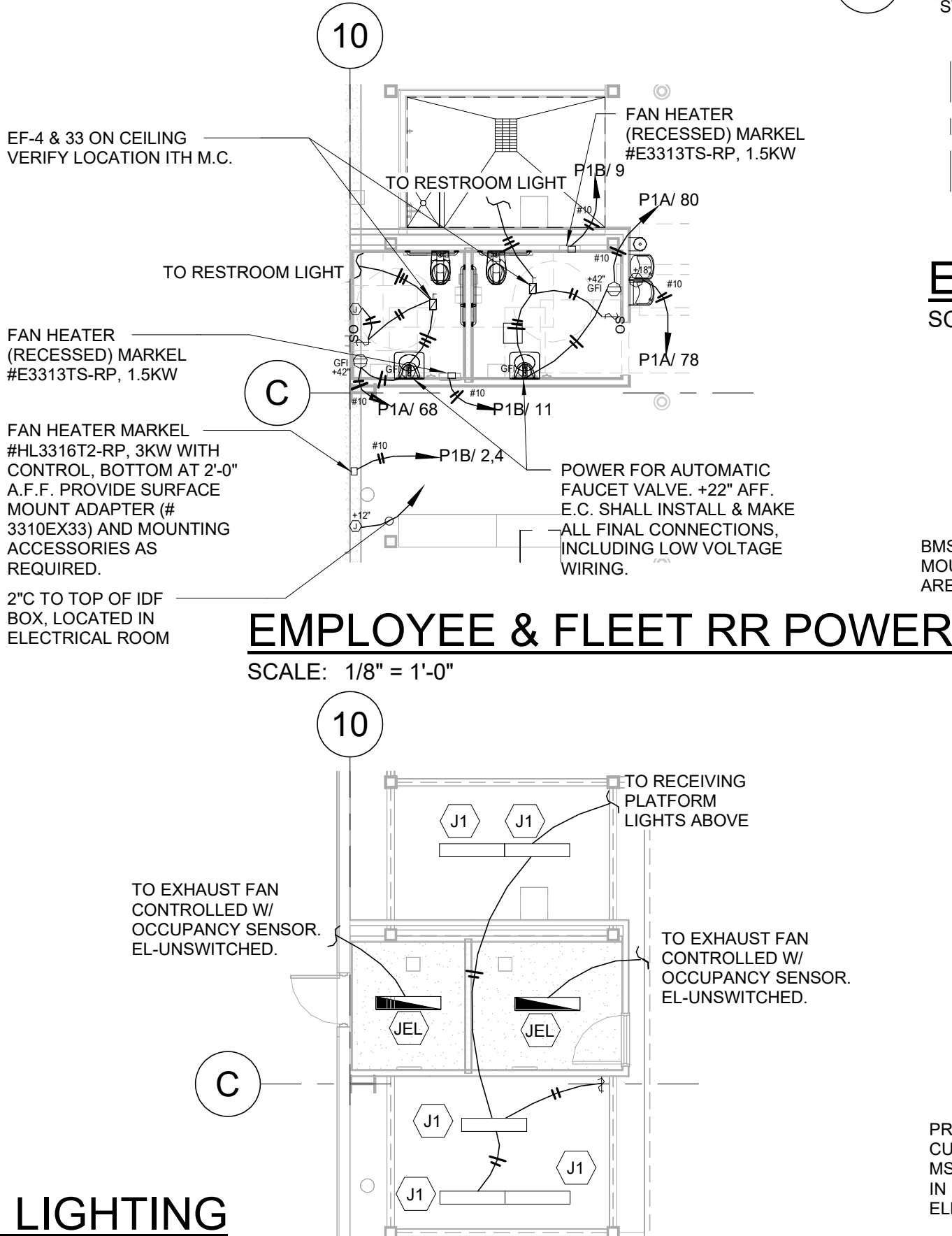
SCALE: 1/8" = 1'-0"

**RECEIVING PLATFORM POWER**

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

RECEIVING PLATFORM LIGHTING

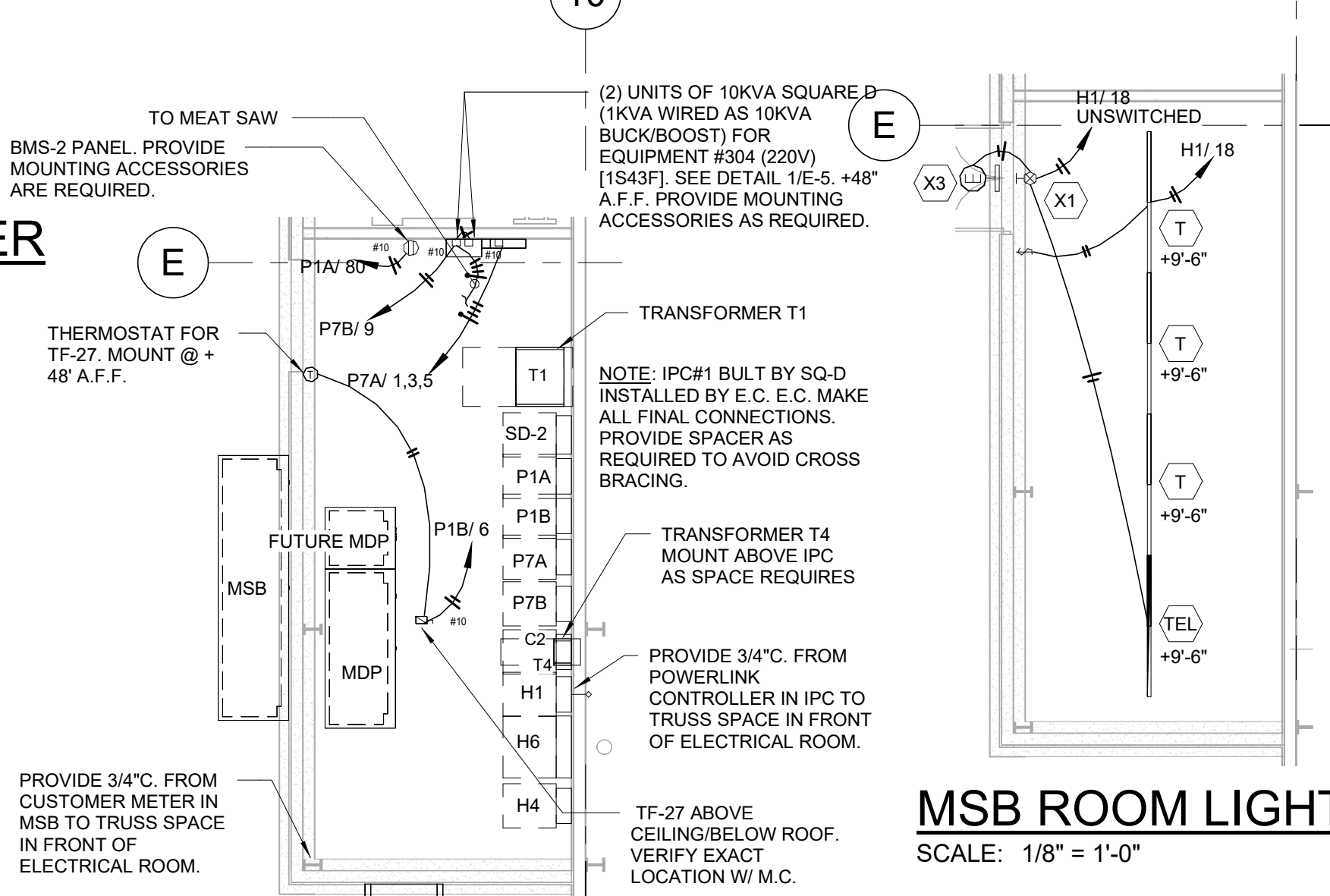
SCALE: 1/8" = 1'-0"

**EMPLOYEE & FLEET RR POWER**

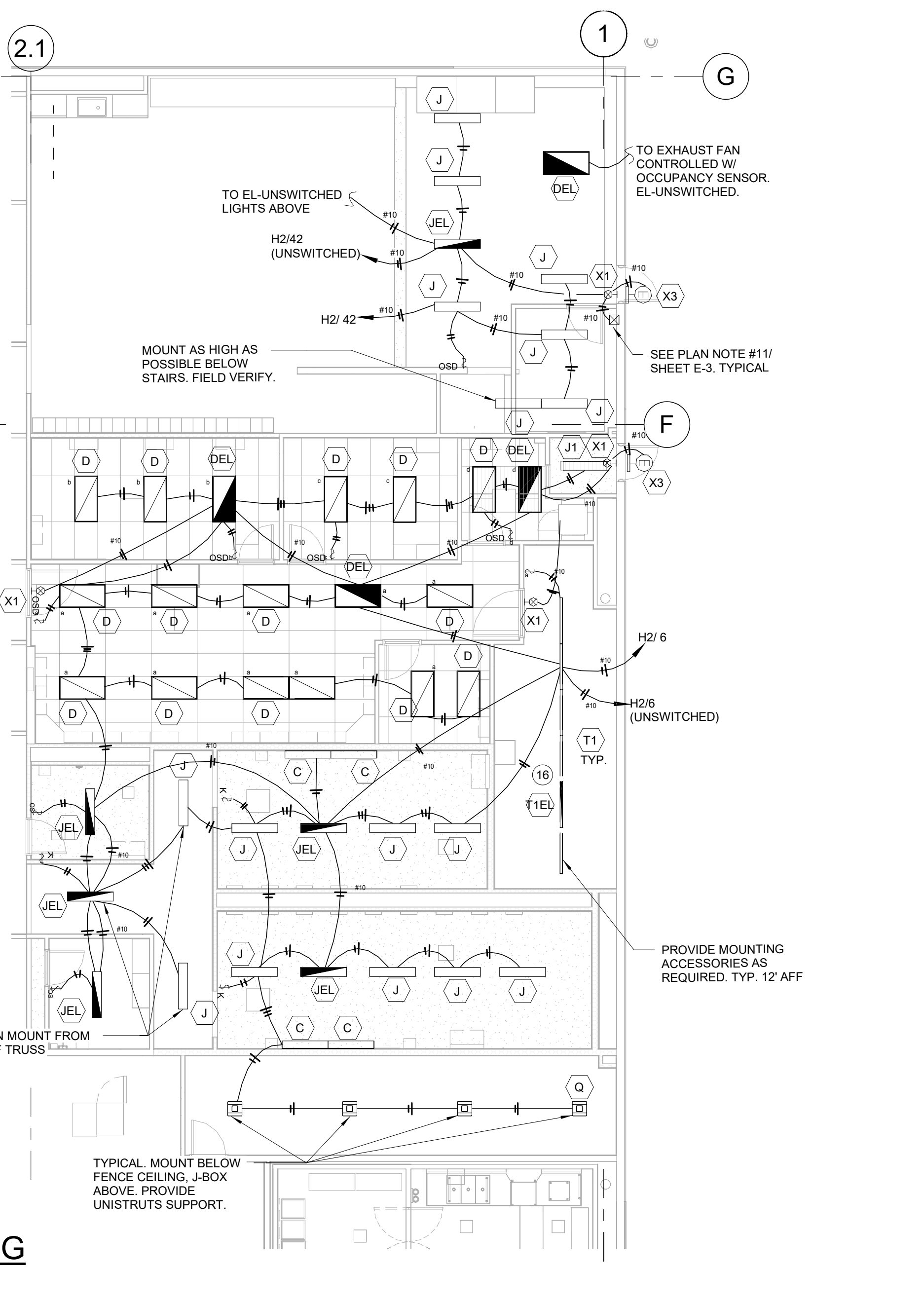
SCALE: 1/8" = 1'-0"

EMPLOYEE RR LIGHTING

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

**MSB ROOM POWER**

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

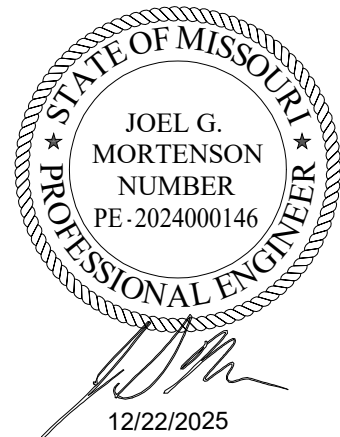
**OFFICE, RR & ELEC ROOM LIGHTING**

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

MSB ROOM LIGHTING

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

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IDPFR # 184005536
EXP: 04/30/2027

PROJECT STATUS: ISSUED FOR CONSTRUCTION

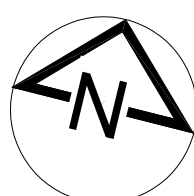
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12/17/2025 ISSUED FOR PERMIT

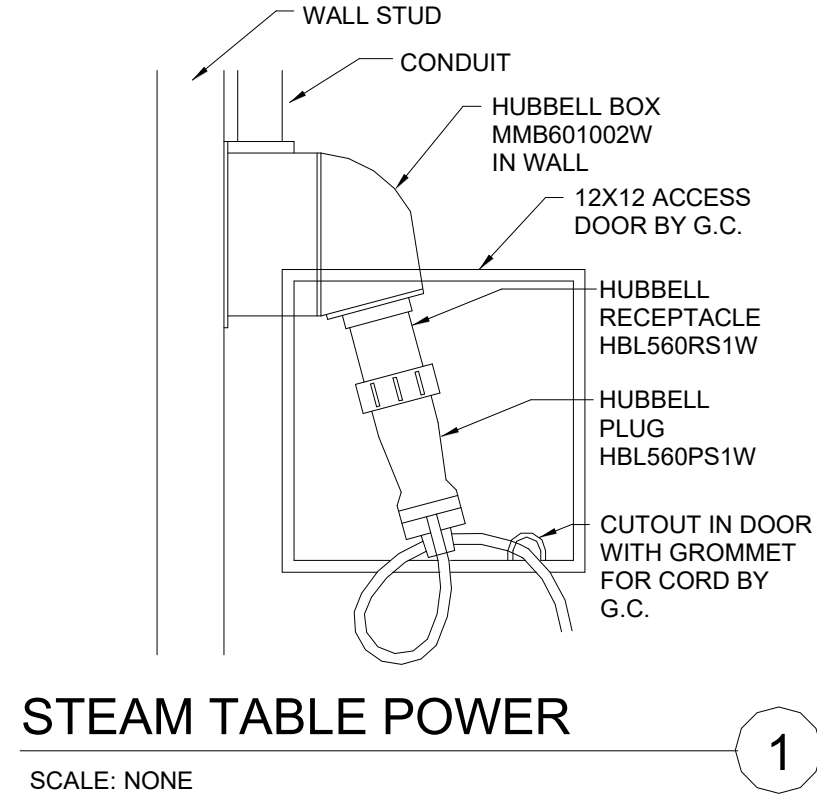
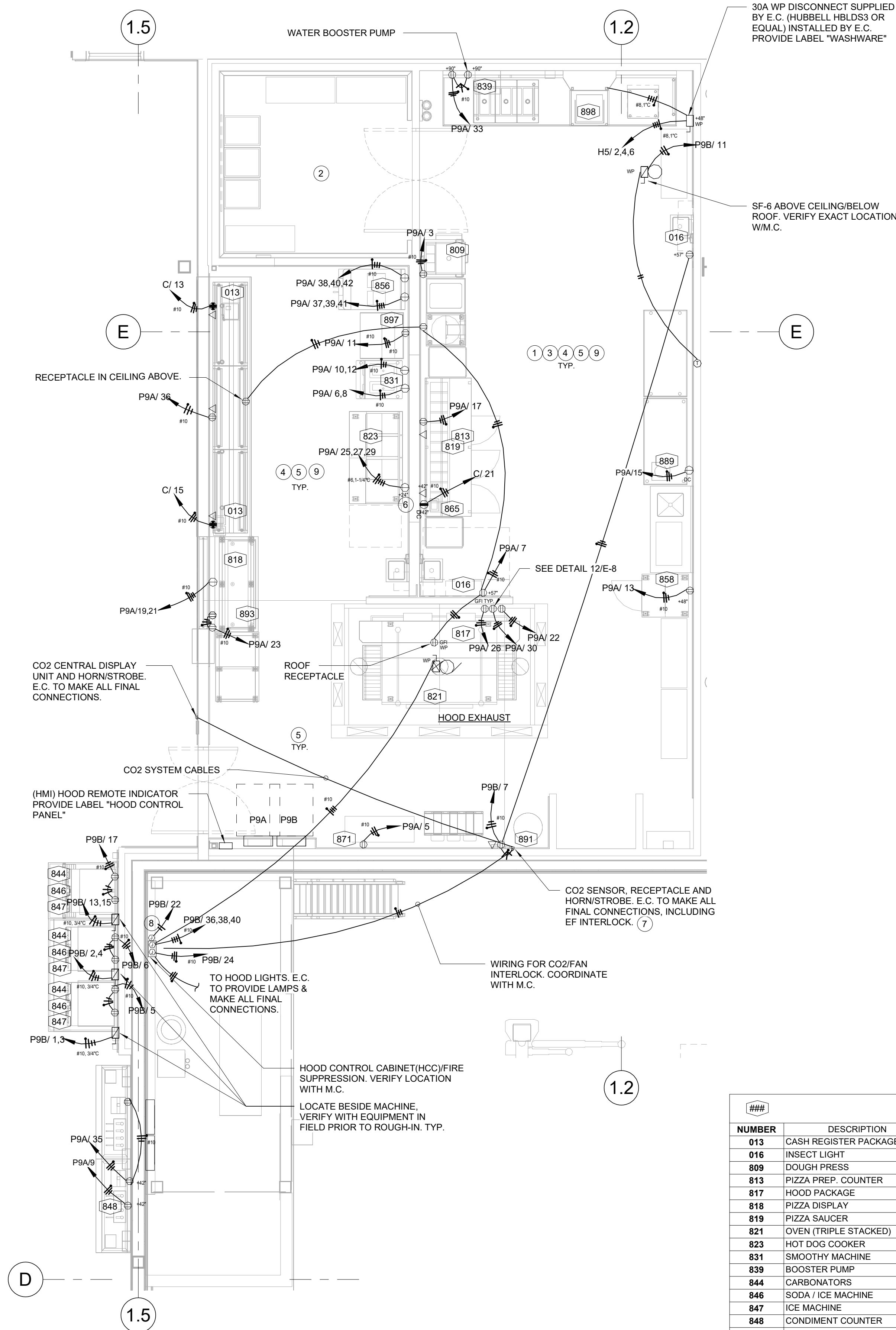
T.E., INC.

1030 N. RIVERSIDE DRIVE
SUITE 1200
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3750

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO
WHOLESALETEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25OFFICE, PHARMACY,
HEARING, OPTICAL, PUBLIC
RESTROOM - POWER AND
LIGHTING PLANS, DETAIL &
NOTES**E-4**



FOOD SERVICE EQUIPMENT LIST (E-6)										
NUMBER	DESCRIPTION	VOLTS	PHASE	AMPS	KW	HP	CONNECTION	MOUNTING HTS	MFG & MODEL	
013	CASH REGISTER PACKAGE	120	1	5.0 EACH			NEMA 5-20R	+19"	IBM	
016	INSECT LIGHT	120	1	2			NEMA 5-20R	+57"	ECOLAB-STEALTH MAXIMA	
809	DOUGH PRESS	120	1		0.9		NEMA 5-20R	+42"	DOUGH PRO - DP1300	
813	PIZZA PREP. COUNTER	120	1	10.25			NEMA 5-20R	+42"	KAIRAK - KRP-96S	
817	HOOD PACKAGE	120	1	1 LIGHT			J BOX		CAPTIVEAIRE 6624ND-2-PSP-B	
818	PIZZA DISPLAY	120/208	1	14.3			NEMA L14-20R	+19"	HATCO	
819	PIZZA SAUJER	120	1	2.5			NEMA L5-20R	+14"	RSD-1-RTM-(1)-CW-CE	
821	OVEN (TRIPLE STACKED)	(3) 120	1	10 EACH			NEMA 5-20R		WOLFE XLT 3855-TS	
823	HOT DOG COOKER	208	3	39.7			SEE FS PLAN NOTE	+24"	H&K DALLAS	
831	SMOOTHY MACHINE	208/208	1	16.0/13.0			NEMA 6-20R	+14"	TAYLOR/342D	
839	BOOSTER PUMP	120	1	10			NEMA 5-20R	+90"	MCCANN	
844	CARBONATORS	120	1	7			NEMA 5-20R	+14"	MCCANN	
846	SODA ICE MACHINE	120	1	3.0			NEMA 5-20R	+14"	LANCER	
847	ICE MACHINE	208	1	12			FUSED DISCONNECT	+122"	MANITOWOC	
848	CONDIMENT COUNTER	120	1	6.9			NEMA 5-20R	+12"	UNIVERSAL STAINLESS	
856	YOGURT MACHINE	208/208	3/3	21.0/18.0			NEMA 15-30R/15-20R	+14", +18"	TAYLOR/C716	
858	REACH IN FREEZER	120	1	11.3			NEMA 5-20R	+48"	TRAULEN G12011	
865	REMOTE PRINTING PACKAGE	120	1	2.0			NEMA 5-20R	+54"		
871	PIZZA WARMER	120	1	12			NEMA 5-15R	+18"	LOCKWOOD/FWS-2127-6	
889	TABLETOP WARMER	120	1	12.5			NEMA 5-20R	+18"	APW	
891	CO2 DETECTOR	120	1		0.03		NEMA 5-15R	+18"	ANAOX	
893	PIZZA BOX WARMER	120	1	2.4			NEMA 5-15R	+18"	HARDT	
897	SANDWICH UNIT REFRIGERATOR	115	1	2.46			NEMA 5-15R	+14"	CONTINENTAL	
898	WASHWARE LINE	480	3	23.7			30A DISCONNECT		HOBART	

PROVIDE FLIP LIDS FOR ALL OUTLETS IN FRESHLINE AND FOOD SERVICE. LEVITON WM1V-GY, WM1D-SGY AND WP2G OR EQUAL.

#	PLAN NOTES - E6
1	SEE ARCHITECT FOOD SERVICE DRAWINGS FOR LOCATION OF EQUIPMENT LAY OUT.
2	ALL CONDUITS PENETRATING THE WALK-IN COOLER SHALL BE SEALED.
3	PROVIDE MATCHING RECEPTACLES FOR ALL EQUIPMENT AS REQUIRED. VERIFY EXACT NEMA TYPE FROM THE EQUIPMENT SUPPLIER.
4	MAKE ALL FINAL CONNECTIONS FOR ALL EQUIPMENT.
5	ALL OUTLETS, J-BOXES, DISCONNECTS, ETC. IN FOOD SERVICE DEPARTMENT SHALL BE WATERTIGHT TYPE.
6	E.C. TO PROVIDE 60A, 4-POLE, 5 WIRE RECEPTACLES AND PLUG. SEE DETAIL THIS SHEET.
7	E.C. TO MAKE ALL FINAL CONNECTIONS FOR CO2 SENSOR SYSTEM. MOUNT CO2 SENSOR AT 12" MIN. MOUNT HORNSTROBE AND WARNING SHEET AT 60". E.C. MOUNT CENTRAL DISPLAY UNIT AT +60". E.C. TO INSTALL SENSOR, CENTRAL DISPLAY UNIT AND HORNSTROBES AND CABLES PER MANUFACTURER'S INSTRUCTIONS. PROVIDE CABLE EXTENDERS AS REQUIRED. MAKE ALL FINAL CONNECTIONS. IF SENSOR COMES WITH CORD AND PLUG, PROVIDE WP RECEPTACLE WITH IN-USE LOCKABLE METAL COVER. PROVIDE RCB RELAY AS REQUIRED FOR HOOD INTERLOCK.
8	E.C. TO MAKE ALL CONNECTIONS TO THE FIRE SUPPRESSION SYSTEM FOR OVENS. PROVIDE POWER, CONDUITS, RELAY & WIRES AS REQUIRED FOR A COMPLETE SYSTEM. INCLUDING LOW VOLTAGE WIRING. COORDINATE WITH FIRE SUPPRESSION SYSTEM & FIRE ALARM SYSTEM CONTRACTOR. SEE FIRE ALARM SPECIFICATION.
9	NO SURFACE MOUNTED CONDUIT IN FOOD SERVICE. REFRIGERATION TO COORDINATE WITH E.C. TO MOUNT CONDUIT EXTERIOR WALL OF FOOD SERVICE FACING EXTERIOR WALL OF BUILDING PRIOR TO INSTALLING WALL.

FOOD SERVICE POWER
SCALE: 1/4" = 1'-0"

PERMIT



IDFPR # 184005536
EXP: 04/30/2027

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12/17/25 ISSUED FOR PERMIT

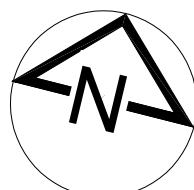
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PHONE: 425-370-3753
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NEW WAREHOUSE

LEE'S SUMMIT, WA

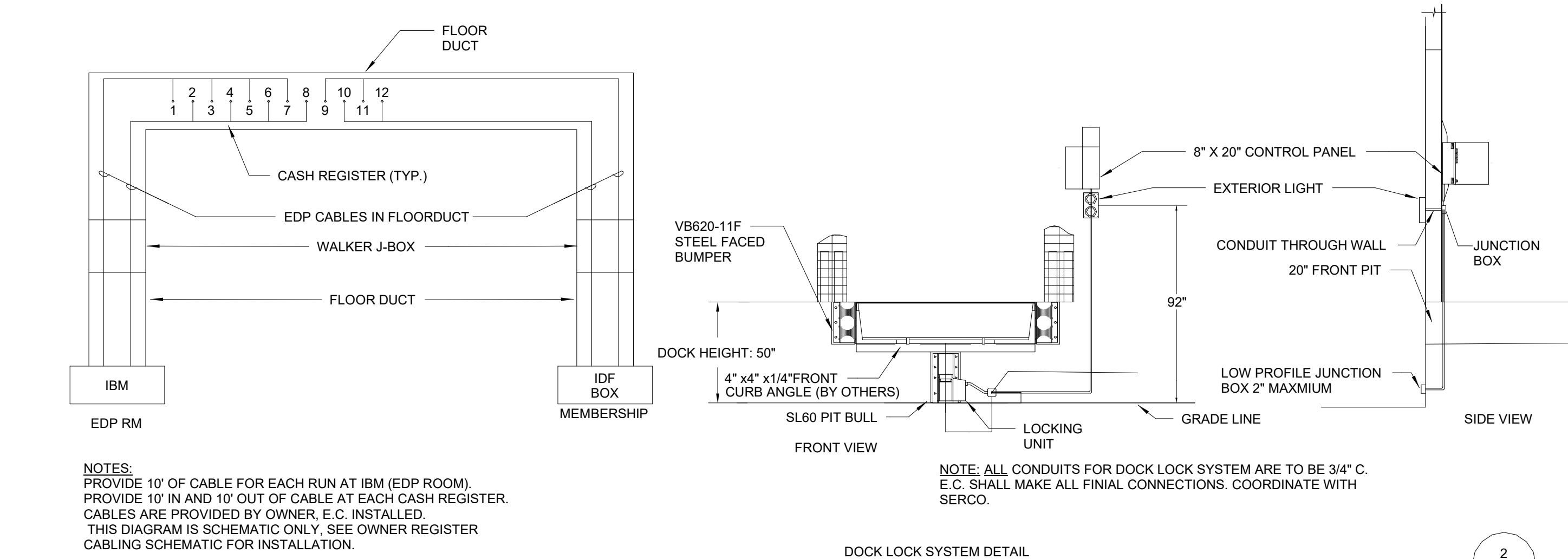


TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

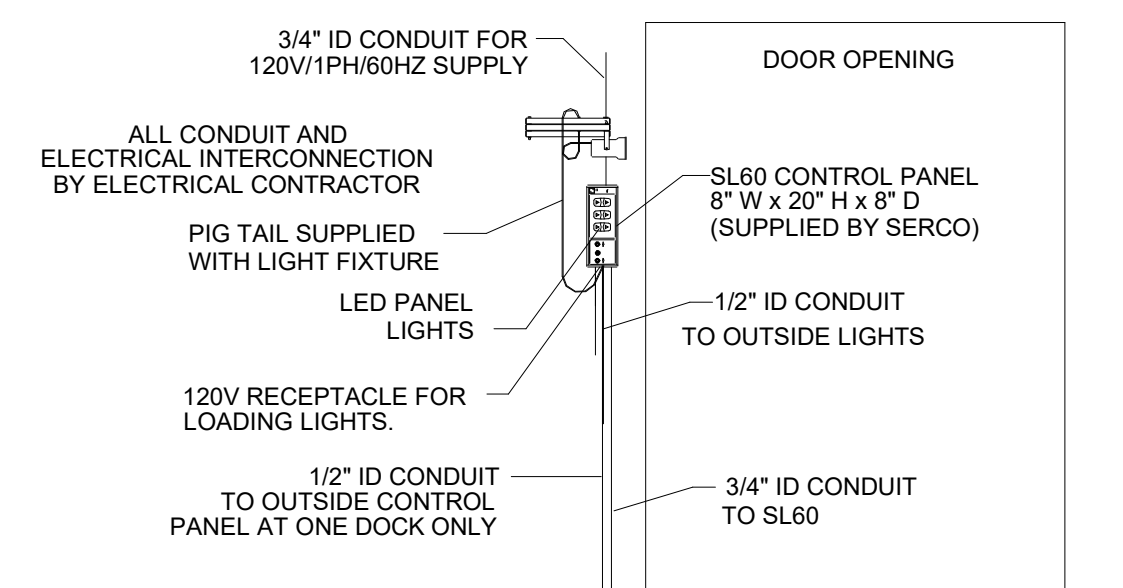
FOOD SERVICE - POWER
PLAN, EQUIPMENT LIST,
DETAIL AND NOTES

E-6

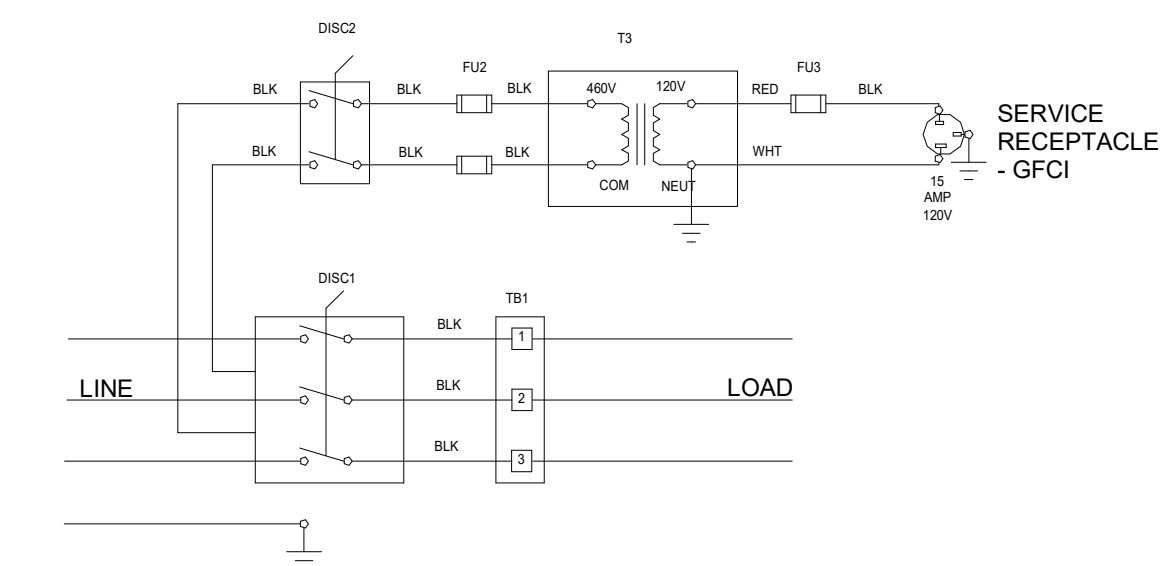
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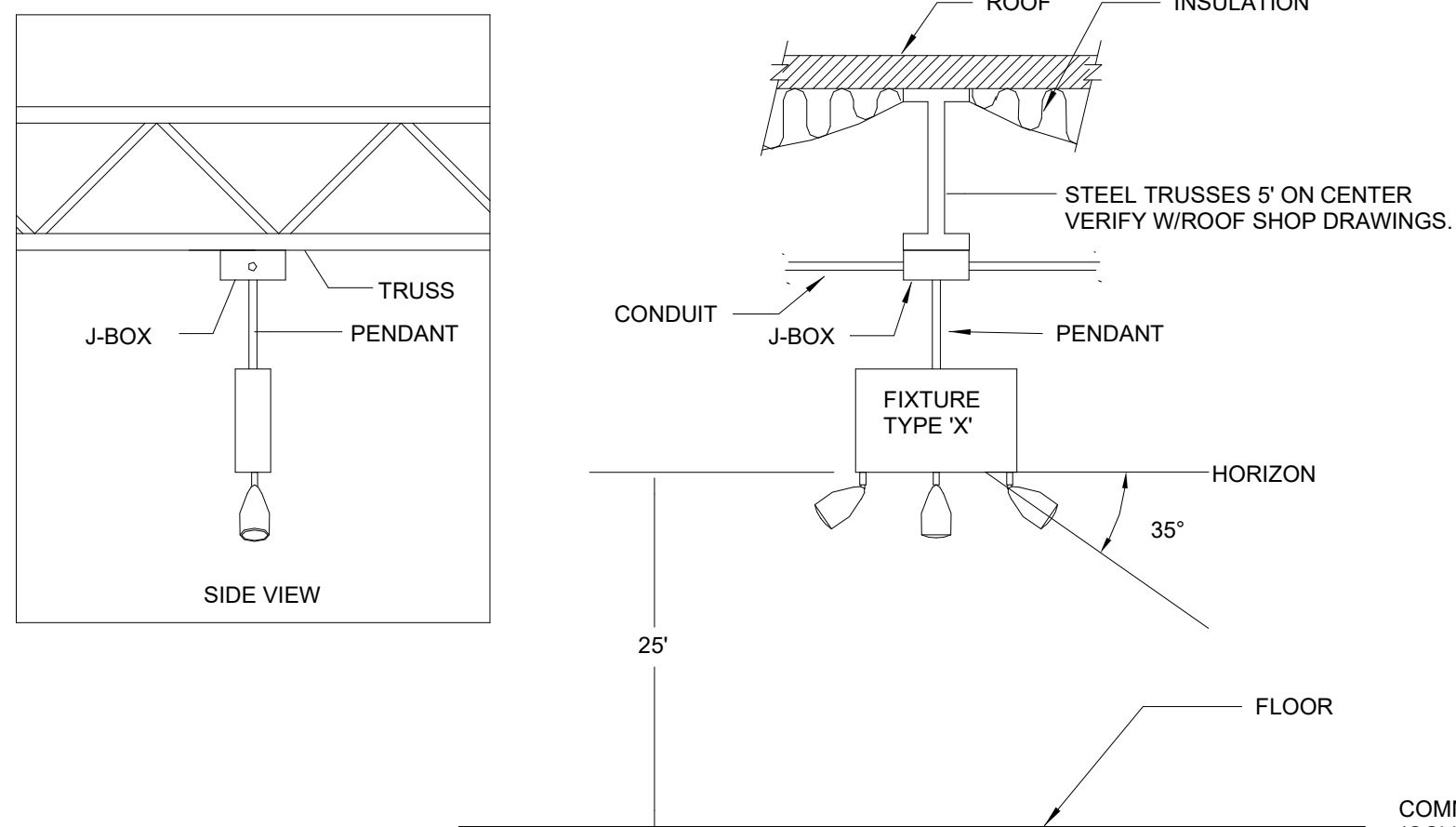
CASH REGISTER WIRING DIAGRAM
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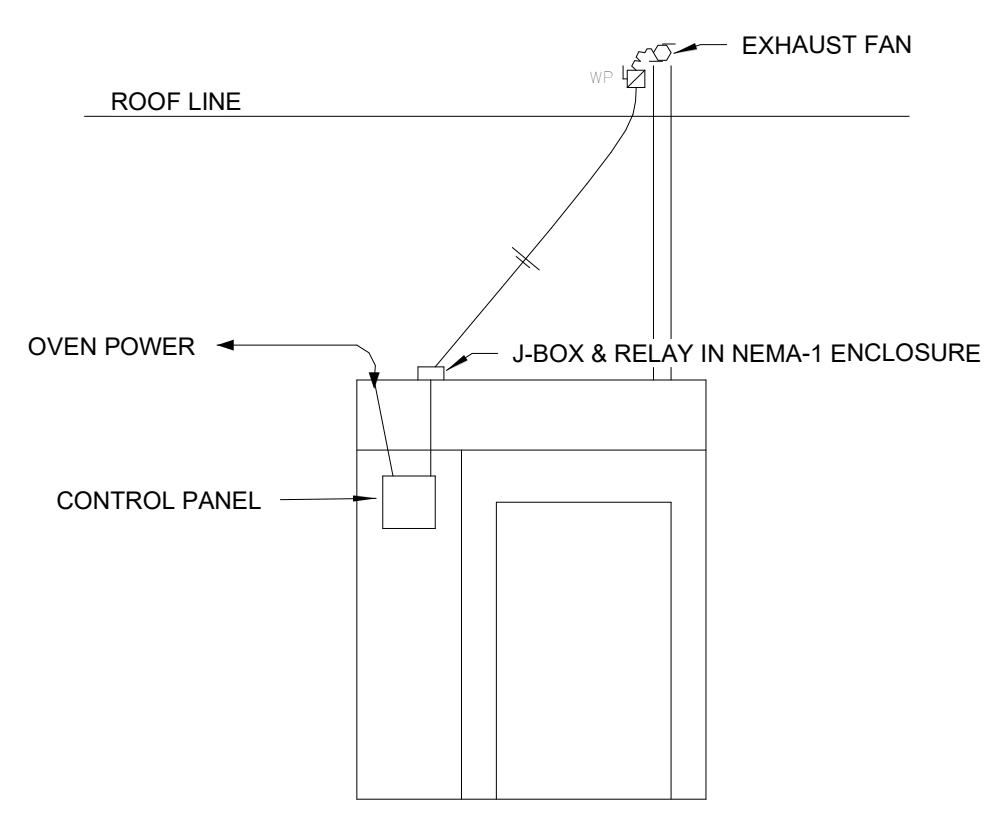
DOCK FIXTURE MOUNTING DETAIL
NO SCALE



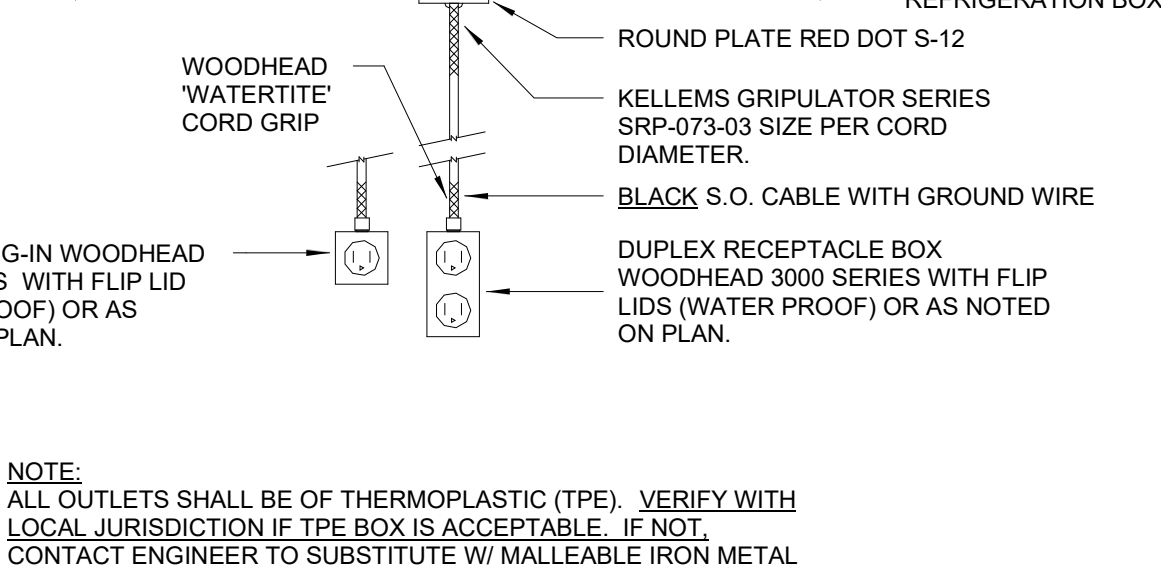
AC FACTORY INSTALLED DISCONNECT AND CONVENIENCE OUTLET WIRING DIAGRAM
NO SCALE



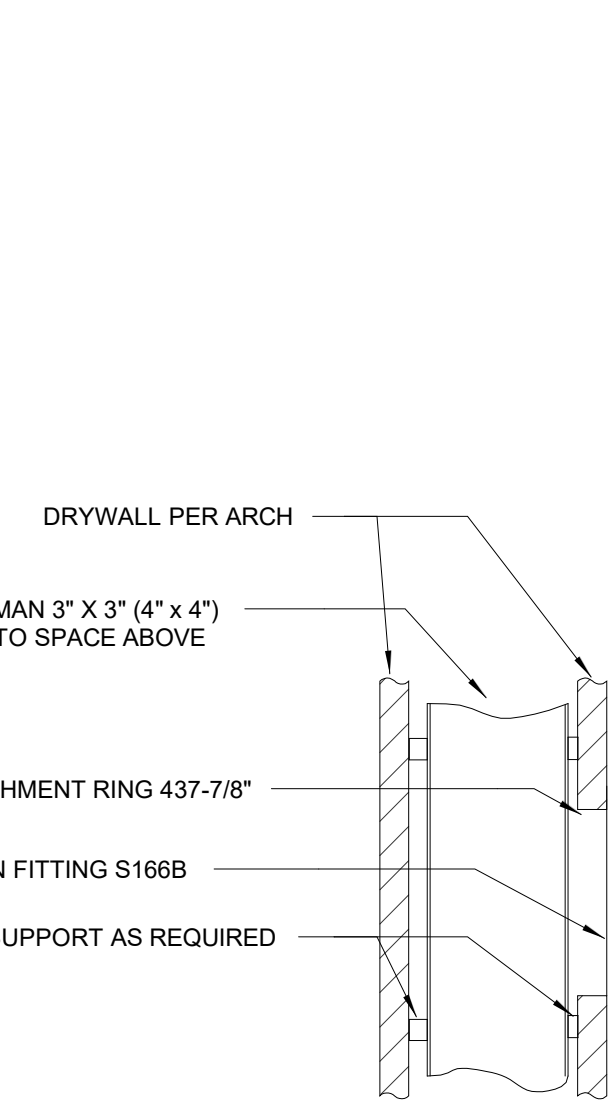
EMERGENCY LIGHTING MOUNTING DETAIL
NO SCALE



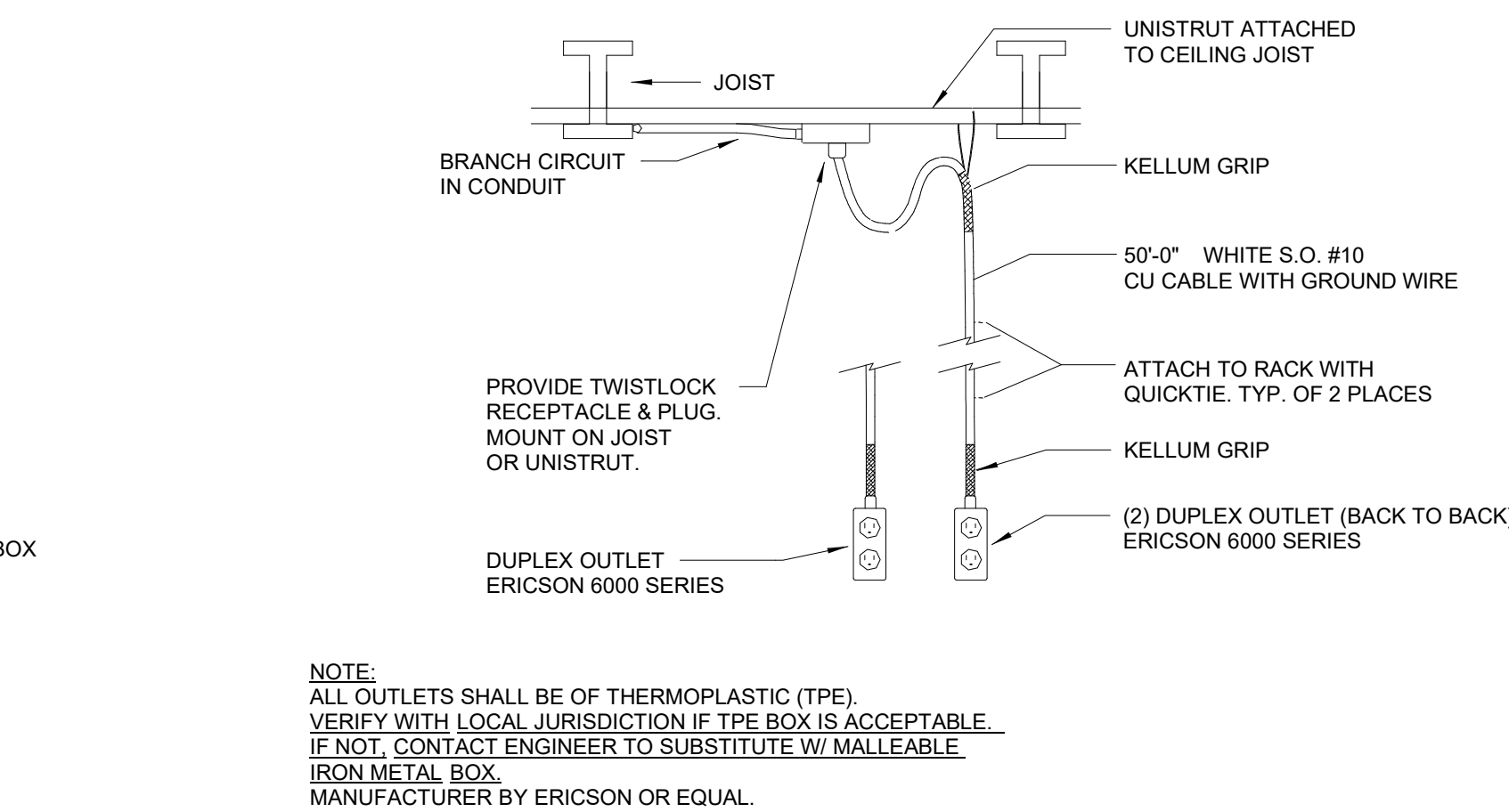
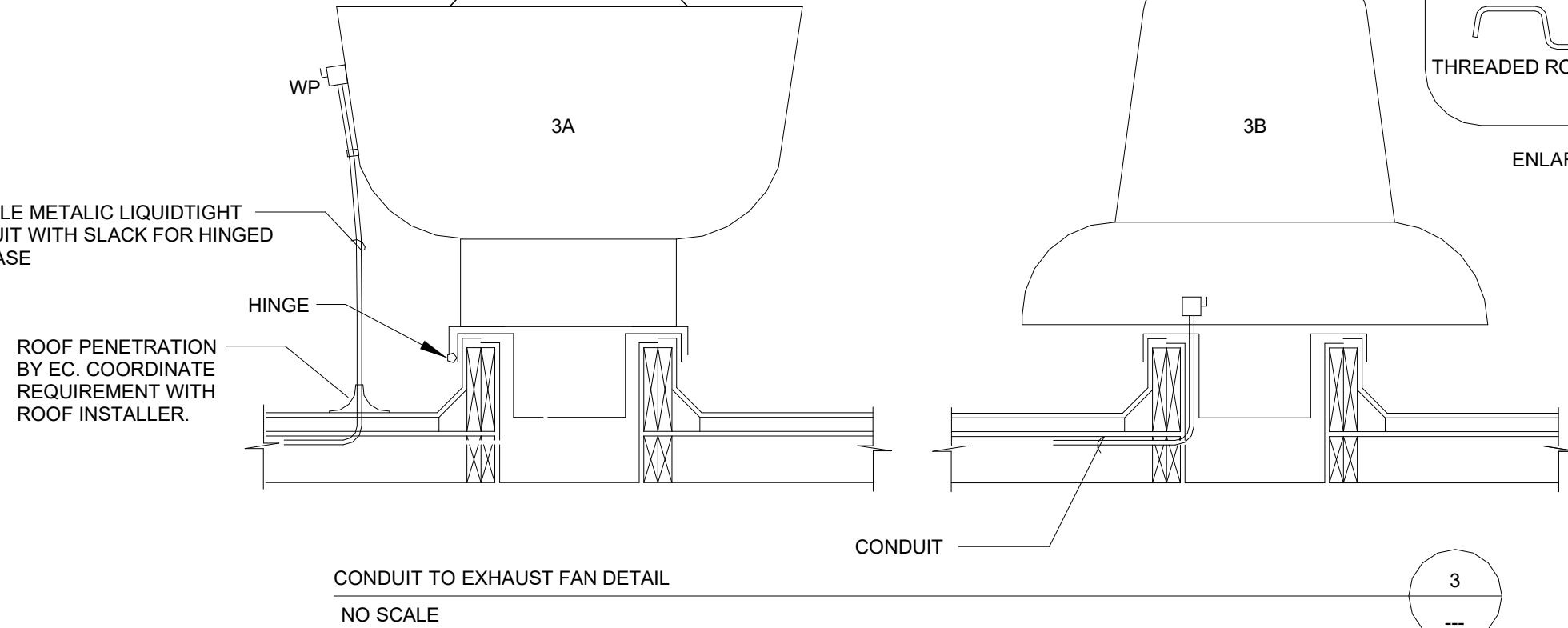
OVEN WIRING DIAGRAM
NO SCALE



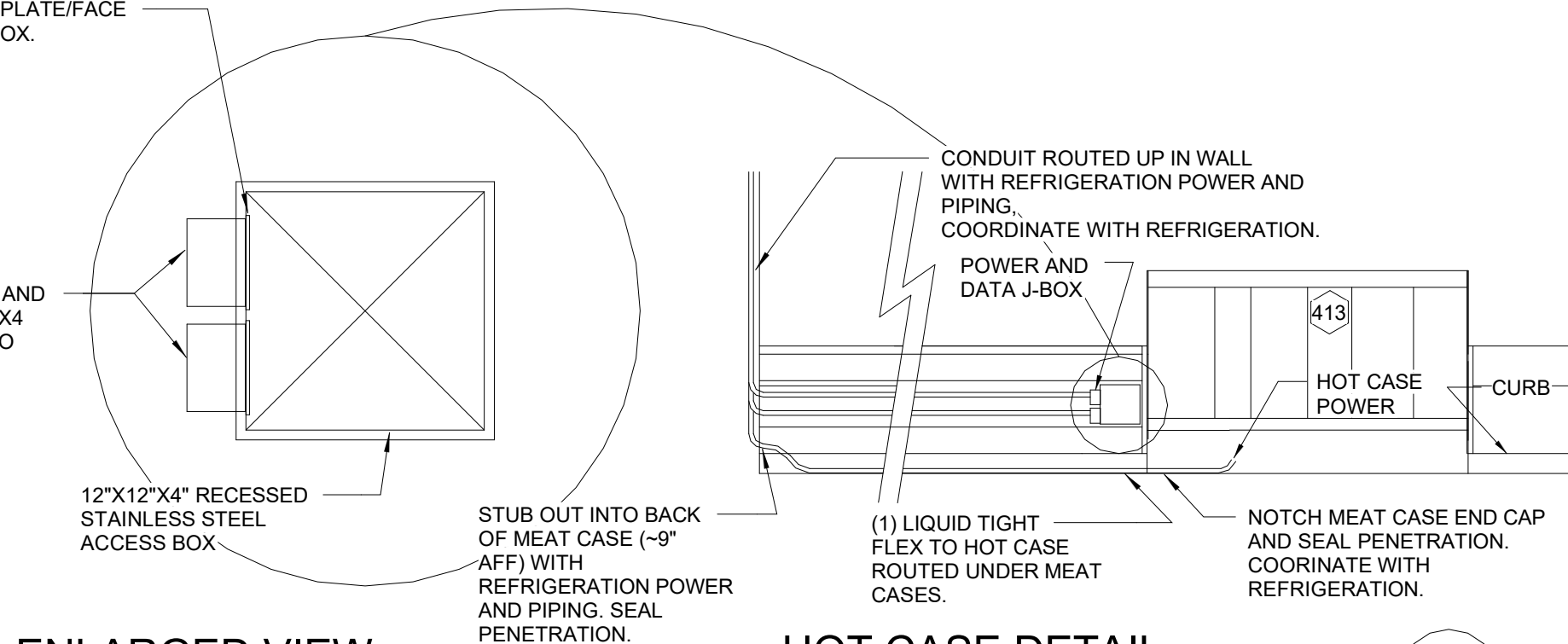
FRESHLINE DROP CORD OUTLET
NO SCALE



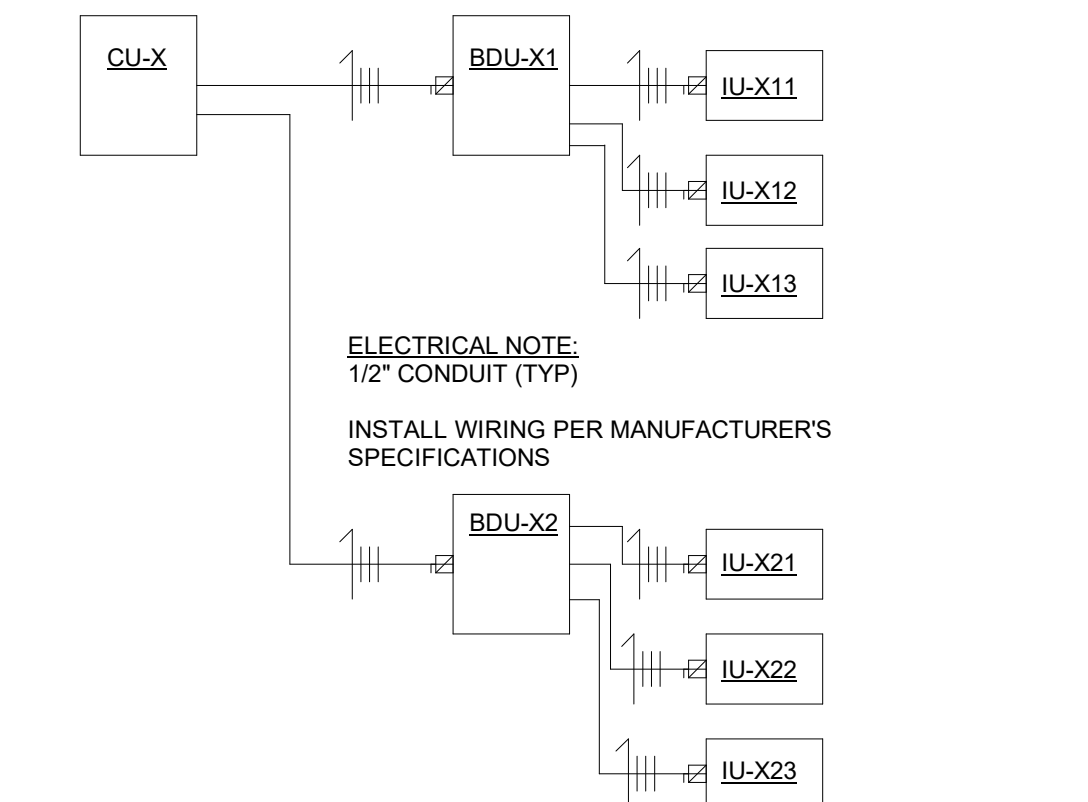
OPTICAL/EXAM ROOM WALL DUCT DETAIL
NO SCALE



MAIN SALES DROP CORD DETAIL
NO SCALE

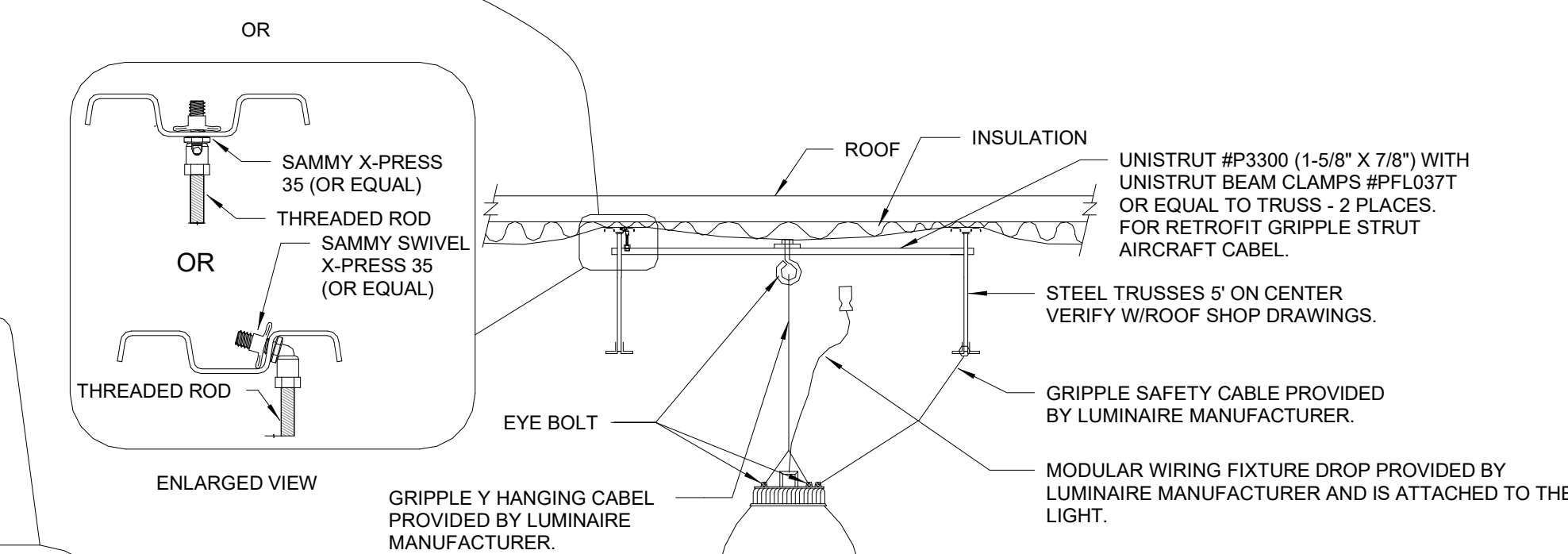
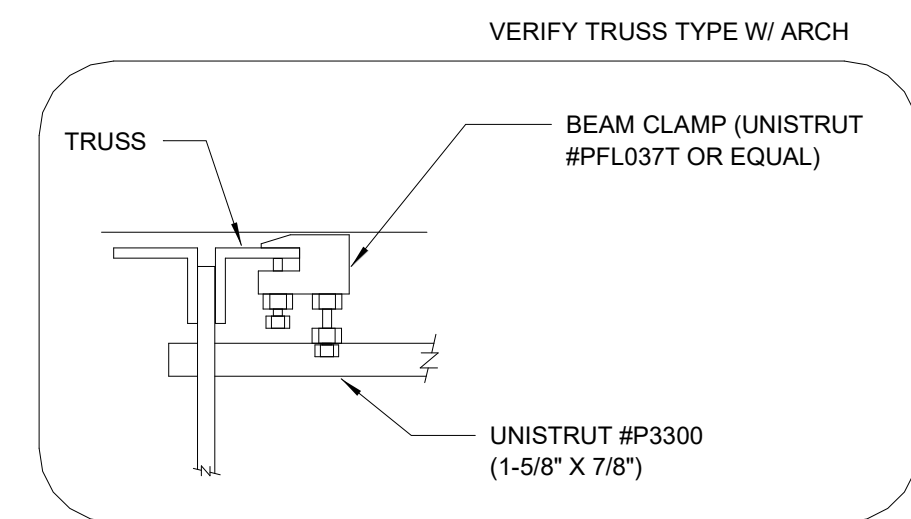


ENLARGED VIEW
NO SCALE



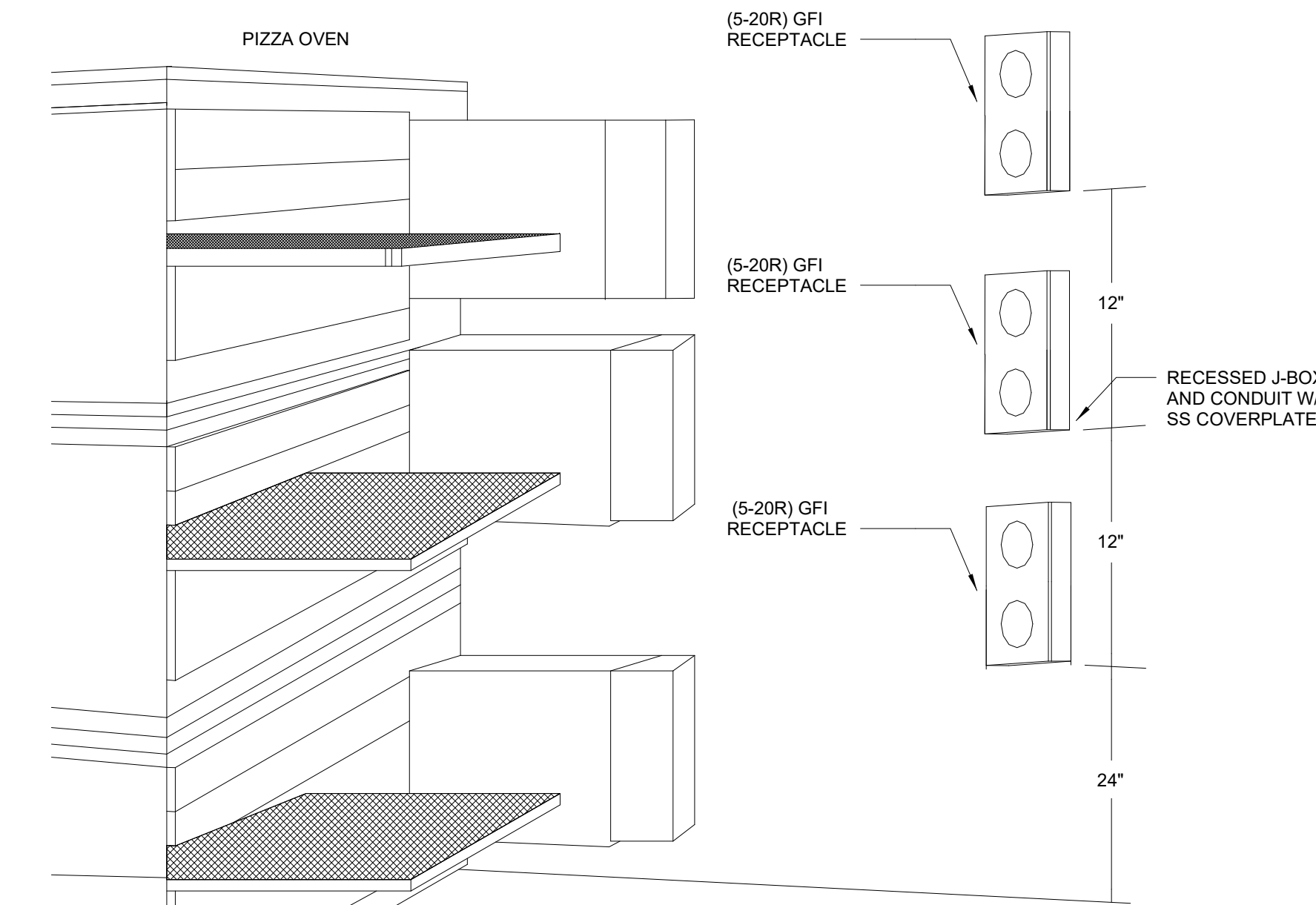
TYPICAL WELLNESS CENTER/OFFICE MULTISPLIT ELECTRICAL DIAGRAM
NO SCALE

ROTISSERIE/FOOD SERVICE EXHAUST FAN WIRING DIAGRAM
SCALE: NTS

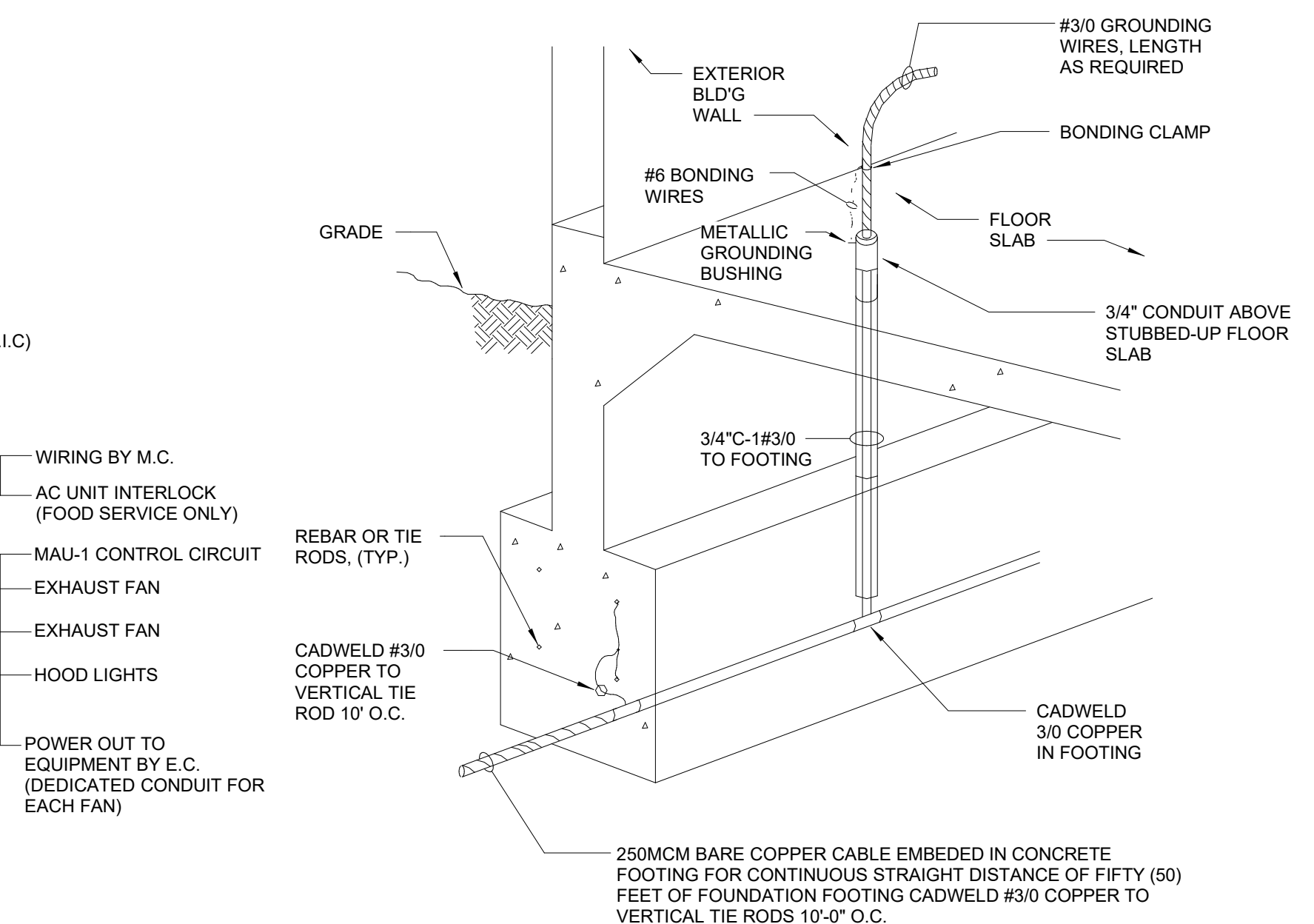


NOTES:
1. IF ANY CONFLICTS OCCUR WITH TRUSSES, COORDINATE FIXTURE RELOCATION WITH ARCHITECT/ENGINEER.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MOUNTING ACCESSORIES AS REQUIRED, INCLUDING UNISTRUT AND GRIPPLE STRUT AS REQUIRED FOR FIXTURE MOUNTING.
3. E.C. CONNECT SAFETY CABLE PROVIDED BY LUMINAIRE MANUFACTURER WITH SELF-CLOSING HOOKS. ATTACH TO THE SAFETY CABLE EYE HOOK ON LUMINAIRE AND THE OTHER TO THE NEAREST BUILDING STRUCTURE. NOT UNISTRUT. TYPICAL ALL HIGHBAYS.

ILLUMADUNE HIGHBAY FIXTURE MOUNTING DETAIL
NO SCALE



PIZZA OVEN
SCALE: NONE



TRIPLE STACK PIZZA OVEN CONNECTION DETAIL
SCALE: NONE

UFER GROUNDING DETAIL
NO SCALE

UFER GROUNDING DETAIL
NO SCALE

PERMIT



IDFPR # 184005536
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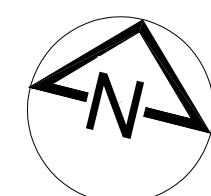
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NEW WAREHOUSE

LEE'S SUMMIT, WA

COSTCO WHOLESALE



TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

ELECTRICAL DETAILS

E-8

BRANCH PANEL: H1														
SUPPLY FROM: MDP					A.I.C. RATING: 65K SERIES MIN.									
MOUNTING: IPC					MAINS TYPE: MLO									
LIGHTING					MAINS RATING: 225 A									
VOLTS: 480/277 Wye					PANEL TYPE: SQ-D NF-PL CU BUS									
PHASES: 3														
WIRES: 4														
#	Circuit Description	Tripp	P	A	B	C	P	Tripp	Circuit Description	#				
1	UNUSABLE SPACE	20 A	1	--	2.28			1	20 A	PARKING LIGHTING ***	2			
3	MEAT COOLER LIGHTING ***	20 A	1			0.83	3.74			20 A	PARKING LIGHTING ***	4		
5	UNUSABLE SPACE	--	1					--	1.79	1	20 A	PARKING LIGHTING (SHARED DRIV...	6	
9	DELISHUSH PREP LIGHTING ***	20 A	1	2.02	0	--	0			1	20 A	SPARE**	8	
10	UNUSABLE SPACE	--	1							1	20 A	SPARE**	10	
11	ROTISSERIE/ROTISSERIE PREP...	20 A	1				0.83	0	1	20 A	SPARE	12		
13	UNUSABLE SPACE	--	1	--	0					1	20 A	SPARE	14	
15	MEAT PREP LIGHTING ***	20 A	1			0.83	0			1	20 A	SPARE	16	
19	UNUSABLE SPACE	--	1					--	1.54	1	20 A	MSB, PLTRM,KRA&DEMO RM LT ***	18	
19	POS COOLER LIGHTING ***	20 A	1	0.36	--					1	20 A	UNUSABLE SPACE	20	
21	UNUSABLE SPACE	--	1				--	2.48			22	20 A	BAKERY LIGHTING ***	22
23	POS FREEZER #1 & #2 LIGHTING ***	20 A	1				0.72	--	--		24	--	UNUSABLE SPACE	24
25	UNUSABLE SPACE	--	1			--	1.5				26	20 A	FRESHLINE DISPLAY **	26
27	DIARY COOLER LIGHTING ***	20 A	1			1.44	1.07				28	20 A	MEAT ISLAND LIGHTING **	28
29	UNUSABLE SPACE	--	1					--	0.61	1	20 A	BAKERY COOLER/FREEZER LIGHTING ***	30	
31	PRODUCE COOLER LIGHTING ***	20 A	1	1.69	--					--	32	--	UNUSABLE SPACE	32
33	SPACE	--	1			--	1.08	--		1	20 A	SIGN LIGHTING **	34	
35	SPACE	--	1					--	0.81	1	20 A	EXTERIOR LIGHTING ***	36	
37	SPACE	--	1			--	2.08				38	--	MECHANICAL ROOM LIGHTING ***	38
39	EMERGENCY LIGHTING *	20 A	1			0.73	--				40	--	UNUSABLE SPACE	40
41	SALES LIGHTING	20 A	1					1.3	2.6	1	20 A	RECEIVING AREA LIGHTING	42	
43	SALES LIGHTING	20 A	1	0.52	--					1	20 A	SPACE	44	
45	SALES LIGHTING	20 A	1			0.52	--			--	1	--	SPACE	46
47	SALES LIGHTING	20 A	1					2.47	--	1	--	SPACE	48	
49	SALES LIGHTING	20 A	1	2.73	0						1	20 A	SPACE	50
51	SALES LIGHTING	20 A	1			2.99	0			1	20 A	SPACE	52	
53	SALES LIGHTING	20 A	1					2.6	0	1	20 A	SPACE	54	
55	SALES LIGHTING	20 A	1	2.47	3.77						3	25 A	FL BATTERY CHARGER	56
57	SALES LIGHTING	20 A	1			2.73	3.77			3	25 A	FL BATTERY CHARGER	58	
59	SALES LIGHTING	20 A	1					2.6	3.77					60
61	SALES LIGHTING	20 A	1	2.6	3.77						3	25 A	FL BATTERY CHARGER	62
63	SALES LIGHTING	20 A	1			2.73	3.77			3.77				64
65	SALES LIGHTING	20 A	1					2.73	3.77					66
67	SPACE	--	1	--	1	--	1							68
69	SPACE	--	1			--	1				3	15 A	ENERGY MONITORING	70
71	SPACE	--	1					--	1					72
TOTAL LOAD:				24.6 kVA	26.2 kVA			27.4 kVA						
TOTAL AMPS:				89 A	96 A			100 A						
PANEL TOTALS														
				TOTAL CONN. LOAD: 178.2 kVA										
				TOTAL EST. DEMAND: 91.4 kVA										
				TOTAL CONN. CURRENT: 94 A										
				TOTAL EST. DEMAND CURRENT: 110 A										

NOTES: PROVIDE LABEL PER NEC 110.22

* PROVIDE LOCK-IN DEVICE & MARK "LEAVE ON"

** POWER LINK BREAKER. SEE LIGHTING CONTROL SCHEDULE FOR CONTROL SEQUENCE

*** POWERLINK EMERGENCY BREAKER (GSEL). SEE LIGHTING CONTROL SCHEDULE FOR CONTROL SEQUENCE

BRANCH PANEL: H2													
SUPPLY FROM: MDP					A.I.C. RATING: 14K MIN								
MOUNTING: IPC					MAINS TYPE: MLO								
LIGHTING					MAINS RATING: 225 A								
VOLTS: 480/277 Wye					PANEL TYPE: SQ-D NF-PL CU BUS								
PHASES: 3													
WIRES: 4													
#	Circuit Description	Tripp	P	A	B	C	P	Tripp	Circuit Description	#			
1	SALES LIGHTING	20 A	1	2.86	1.8			1	20 A	FOOD SERVICE LIGHTING ***	2		
3	SALES LIGHTING	20 A	1			2.86	--	1	--	UNUSABLE SPACE	4		
5	SALES LIGHTING	20 A	1				2.73	2.43	1	20 A	OFFICE LIGHTING ***	6	
7	SALES LIGHTING	20 A	1	2.6	--			1	--	UNUSABLE SPACE	8		
9	SALES LIGHTING	20 A	1			2.86	1.54		1	20 A	PHARMACY & OPTICAL LIGHTING ***	10	
11	SALES LIGHTING	20 A	1			2.86	--	1	--	UNUSABLE SPACE	12		
13	SALES LIGHTING	20 A	1	2.47	2.78			1	20 A	PARKING LIGHTING ***	14		
15	SALES LIGHTING	20 A	1			2.73	2.78		1	20 A	PARKING LIGHTING ***	16	
17	SALES LIGHTING	20 A	1			2.86	2.67	1	20 A	PARKING LIGHTING ***	18		
19	SALES LIGHTING	20 A	1	2.6	3.01			1	20 A	PARKING LIGHTING ***	20		
21	SALES LIGHTING	20 A	1			2.73	0	1	20 A	SPARE	22		
23	SALES LIGHTING	20 A	1				2.47	0	1	20 A	SPARE ***	24	
25	SPARE	20 A	1	0	0.5			1	20 A	CANOPY LIGHTING ***	26		
27	SPARE	20 A	1			0	1.88		1	20 A	CANOPY LIGHTING ***	28	
29	SPARE	20 A	1				0	0	1	20 A	SPARE	30	
31				1	0.66					1	20 A	SIGN LIGHTING ***	32
33	ENERGY MONITORING	15 A	3			1	1.14			1	20 A	EXTERIOR LIGHTING ***	34
35								1	--	1	--	SPACE	36
37	TIRE SALES LIGHTING	20 A	1	2.01	--					1	SPACE	38	
39	TIRE INSTALL LIGHTING	20 A	1			2.48	--			0	--	SPACE	40
41	EMERGENCY LIGHTING ***	20 A	1					0.89	1.36	1	20 A	BREAK ROOM LIGHTING	42
TOTAL LOAD:				22.3 kVA		22 kVA		19.3 kVA					
TOTAL AMPS:				82 A		81 A		70 A					
PANEL TOTALS													
				TOTAL CONN. LOAD: 63.6 kVA									
				TOTAL EST. DEMAND: 78.7 kVA									
				TOTAL CONN. CURRENT: 76 A									
				TOTAL EST. DEMAND CURRENT: 95 A									
NOTES:													
* PROVIDE LOCK IN DEVICE & MARK "LEAVE ON"													
** POWERLINK BREAKER. SEE LIGHTING CONTROL SCHEDULE FOR CONTROL SEQUENCE													
*** POWERLINK EMERGENCY (GSEL). SEE LIGHTING CONTROL SCHEDULE FOR CONTROL SEQUENCE.													

BRANCH PANEL: H3												
SUPPLY FROM: MDP					A.I.C. RATING: 65K SERIES MIN.							
MOUNTING: IPC					MAINS TYPE: MLO							
MISC					MAINS RATING: 400 A							
VOLTS: 480/277 Wye					PANEL TYPE: SQ-D NF CU BUS							
PHASES: 3												
WIRES: 4												
#	Circuit Description	Tripp	P	A	B	C	P	Tripp	Circuit Description	#		
1	GAS COOLER A	25 A	3	5.83	11.47			3	60 A	460V FAN CONTROL PANEL	2	
5				5.83	--	5.83	11.47	1	--	SPACE	4	
7				5.83	--	5.83	--	1	--	SPACE	6	
9	GAS COOLER B	25 A	3					1	--	SPACE	10	
11								1	--	SPACE	12	
13	MEAT/ROTISSERIE PREP AHU REHEAT	50 A	3	11.34	11.34			3	50 A	DELISHUSHI PREP AHU HEAT	14	
15						11.34	11.34				16	
17				4.43	4.43		11.34	11.34			18	
21	MEAT/ROTISSERIE PREP AHU FAN	20 A	3			4.43	4.43	3	20 A	DELISHUSHI PREP AHU FAN	22	
23				2.99	0.72		4.43	4.43			24	
27	POS FRZ AIR CURTAIN	20 A	3			2.99	0.72	3	15 A	DELISHUSHI PREP AHU SKID PUMP POWER	26	
29				2.99	1.7		2.99	0.72			28	
31				2.99	1.7		2.99	1.7	3	15 A	IRRIGATION PUMP	30
33	POZ FRZ AIR CURTAIN	20 A	3			2.99	1.7		3	15 A	IRRIGATION PUMP	32
35				2.99	1.7		2.99	1.7			34	
37				2.99	1.7		2.99	1.7	3	15 A	WATER BOOSTER PUMP	38
39	BAK FREEZER AIR DOOR	20 A	3			2.99	1.7		3	15 A	WATER BOOSTER PUMP	40
41						2.99	1.7				42	
TOTAL LOAD:				67.8 kVA	67.8 kVA			67.8 kVA				
TOTAL AMPS:				245 A	245 A			245 A				
PANEL TOTALS												
				TOTAL CONN. LOAD: 203.3 kVA								
				TOTAL EST. DEMAND: 203.3 kVA								
				TOTAL CONN. CURRENT: 245 A								
				TOTAL EST. DEMAND CURRENT: 245 A								
NOTES: PROVIDE LABEL PER NEC 110.22												
E.C. SHALL VERIFY ALL BREAKER SIZES WITH FREEZER/COOLER CONTRACTOR BEFORE INSTALLATION.												

PANEL SCHEDULE NOTES:

PROVIDE BREAKER HANDLE TIES AS REQUIRED TO COMPLY WITH NEC, ARTICLE 210.4. HANDLE TIES TO BE INSTALLED FOR BREAKERS ON CIRCUITS SHARING ONE NEUTRAL CONDUCTOR.

BRANCH PANEL: H4	
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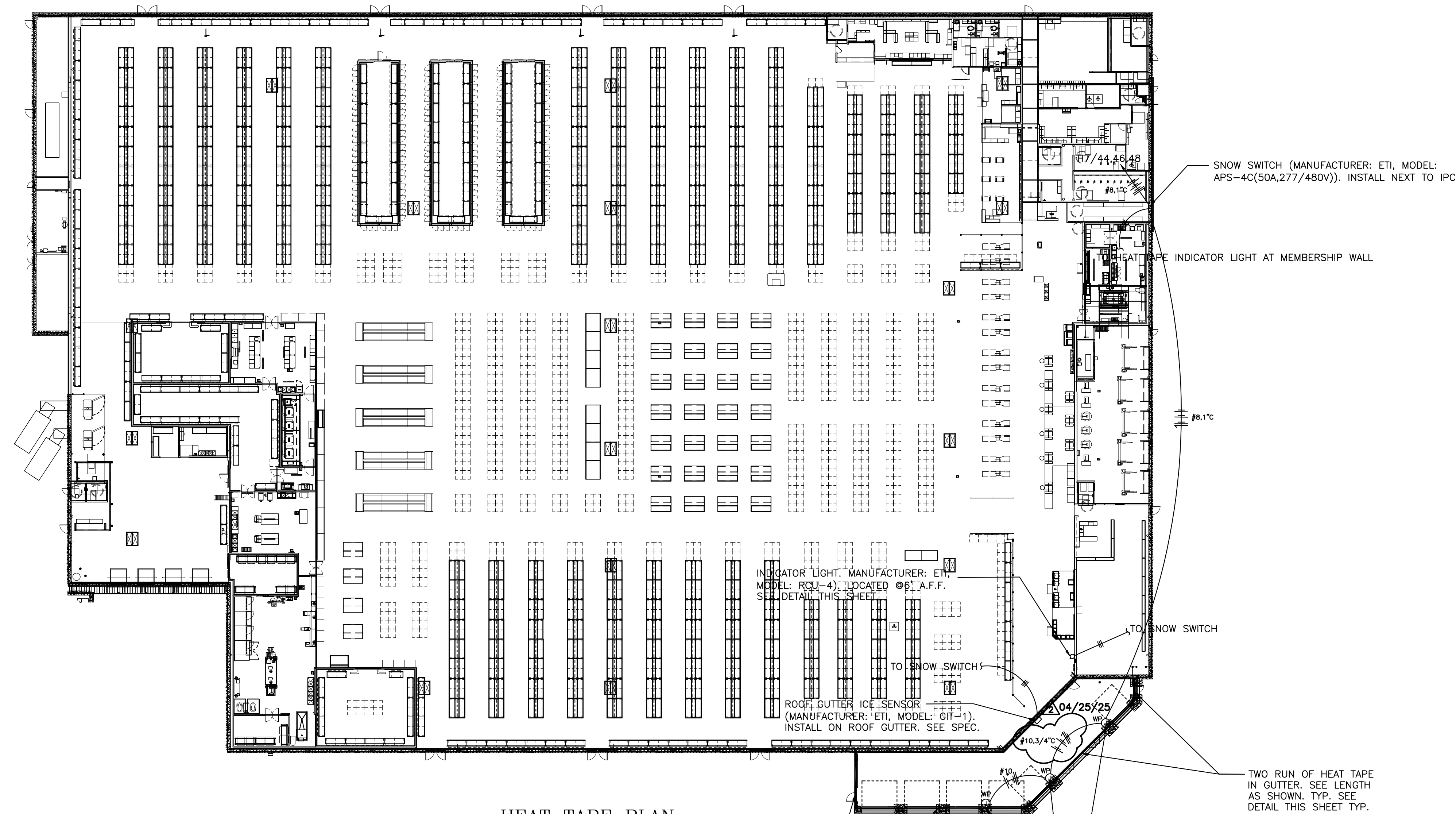
BRANCH PANEL: P4A													
SUPPLY FROM: SD-1				VOLTS: 208/120 Wye				A.I.C. RATING: 10KA					
MOUNTING: SURFACE				PHASES: 3				MAINS TYPE: MLO					
RECEPTACLE				WIRES: 4				MAINS RATING: 400 A					
				PANEL TYPE: SQ-D NQOD CU BUS									
#	Circuit Description	Trip	P	A	B	C	P	Trip	Circuit Description	#			
1	TIRE MACHINE	20 A	1	2.14	1.36			1	20 A	LIFT MACHINE	2		
3	TIRE MACHINE	20 A	1			0.98	0.72		1	20 A	COUNTER RECEPTACLE **	4	
5	TIRE MACHINE	20 A	1					0.98	0.36	1	20 A	PLATFORM RECEPTACLE	6
7	LIFT MACHINE	20 A	1	0.98	0.41					1	20 A	EF-3, RECEPTACLE & LIGHT **	8
9	TIRE MACHINE	20 A	1			0.98	1.2			2	20 A	TWISTLOCK OUTLET	10
11	TIRE MACHINE	20 A	1					0.98	1.2	2	20 A	TWISTLOCK OUTLET	14
13	TIRE MACHINE	20 A	1	0.98	1.2					2	20 A	TWISTLOCK OUTLET	18
15	LIFT MACHINE	20 A	1			0.98	1.2			2	20 A	TWISTLOCK OUTLET	22
17	SPARE	20 A	1				0	1.2		2	20 A	TWISTLOCK OUTLET	26
19	EURO TIRE CHANGER	30 A	1	2.4	1.2					2	20 A	TWISTLOCK OUTLET	30
21	EURO TIRE CHANGER	30 A	1			2.4	1.2			2	20 A	TWISTLOCK OUTLET	34
23	EURO TIRE CHANGER	30 A	1				2.4	1.2		2	20 A	TWISTLOCK OUTLET	38
25	EURO TIRE CHANGER	30 A	1	2.4	1.2					2	20 A	TWISTLOCK OUTLET	42
27	EURO TIRE CHANGER	30 A	1			2.4	1.2			2	20 A	TWISTLOCK OUTLET	46
29	NITROGEN REEL RECEPTACLE	20 A	1				0.9	0.18		2	20 A	BATTERY CHARGER RECEPT	30
31	MAXX90 TIRE CHANGER	20 A	2	1.2	0.18					2	20 A	BATTERY CHARGER RECEPT	32
33	MAXX90 TIRE CHANGER	20 A	2			1.2	1.2			2	20 A	MAXX90 TIRE CHANGER	34
35	MAXX90 TIRE CHANGER	20 A	2				1.2	1.2		2	20 A	MAXX90 TIRE CHANGER	36
37	MAXX90 TIRE CHANGER	20 A	2	1.2	1.2					2	20 A	MAXX90 TIRE CHANGER	38
39	MAXX90 TIRE CHANGER	20 A	2			1.2	1.5			2	20 A	MAXX90 TIRE CHANGER	40
41	MAXX90 TIRE CHANGER	20 A	2				1.2	1.5		1	20 A	FAN HEATER	42
TOTAL LOAD:				34.7 kVA	34.3 kVA	29.8 kVA							
TOTAL AMPS:				295 A	291 A	248 A							
PANEL TOTALS													
TOTAL CONN. LOAD: 98.7 kVA													
TOTAL EST. DEMAND: 101.6 kVA													
TOTAL CONN. CURRENT: 274 A													
TOTAL EST. DEMAND CURRENT: 282 A													
NOTES: PROVIDE GROUND FAULT INTERRUPTING CIRCUIT BREAKERS FOR ALL BREAKERS UNLESS OTHERWISE NOTED.													
* PROVIDE LOCK IN DEVICE AND MARK "LEAVE ON".													
** NON GFI BREAKER													

BRANCH PANEL: P4B											
SUPPLY FROM: P4A				VOLTS: 208/120 Wye				A.I.C. RATING: 10KA			
MOUNTING: SURFACE				PHASES: 3				MAINS TYPE: MLO			
MISC				WIRES: 4				MAINS RATING: 400 A			
								PANEL TYPE: SQ-D NQOD CU BUS			
#	Circuit Description	Trip	P	A	B	C	P	Trip	Circuit Description	#	
43	WH-5	20 A	1	0.5	3.86					3	
45	RH-7 & 5.10"	20 A	1		0.64	3.86				46	
47	FLUORESCENT HEAT TAPE *	20 A	1				1	3.86		48	
49	DRY SPRINKLER COMPRESSOR ***	20 A	1	0	3.86					50	
51	NITROGEN DISPENSER	20 A	1		0.5	3.86				52	
53	SPARE	20 A	1				0	3.86		54	
55	SPARE	20 A	1	0	1.9					56	
57	SPARE	20 A	1		0	1.9			2	35 A	
59	SPARE	20 A	1				0	1.9	2	35 A	
61	SPARE	20 A	1	0	1.9				2	35 A	
63	SPARE	20 A	1		0	1.9			2	35 A	
65	SPARE	20 A	1				0	1.9	2	35 A	
67	SPARE	20 A	1	0	1.9				2	35 A	
69	SPACE	--	1		--	1.9			2	35 A	
71	SPACE	--	1			--	1.9		2	35 A	
73	SPACE	--	1	--	1.9				2	35 A	
75	SPACE	--	1		--	0.83			2	20 A	
77	SPACE	--	1			--	0.83		2	20 A	
79	SPACE	--	1	--	0.83				2	20 A	
81	SPACE	--	1		--	0.83			2	20 A	
83	SPACE	--	1			--	0		1	20 A	
TOTAL LOAD:				16.7 kVA	16.2 kVA	15.3 kVA					
TOTAL AMPS:				140 A	136 A	127 A					
PANEL TOTALS											
TOTAL CONN. LOAD: 48.1 kVA											
TOTAL EST. DEMAND: 51.0 kVA											
TOTAL CONN. CURRENT: 134 A											
TOTAL EST. DEMAND CURRENT: 142 A											
NOTES:											

BRANCH PANEL: P5														
SUPPLY FROM: SD-3			VOLTS: 208/120 Wye				A.I.C. RATING: 22K SERIES MIN.							
MOUNTING: IPC			PHASES: 3				MAINS TYPE: MLO							
MISC			WIRES: 4				MAINS RATING: 400 A							
							PANEL TYPE: SQ-D NQOD CU BUS							
#	Circuit Description	Trip	P	A	B	C	P	Trip	Circuit Description	#				
1	DELI ISLAND FANS	20 A	1	1.56	11.43			2	125 A	230 V FAN CONTROL PANEL	2			
3	DELI ISLAND FANS	20 A	1			0.55	11.43			1	20 A	SPARE	4	
5	DELI ISLAND FANS	20 A	1				0.3	0	1	1	20 A	DELI WINDOW HEATER (M18)	6	
7	MEAT ISLAND FANS	20 A	1	0.55	1					1	20 A	CHICKEN WINDOW HEATER (M18)	8	
9	MEAT ISLAND FANS	20 A	1			0.3	1			1	20 A	CHICKEN WINDOW HEATER (M18)	10	
11	WH-1 + 1 PUMP	20 A	1				0.5	1		1	20 A	DISH PREP WINDOW HEATER (M18)	12	
13	WH-2 + CIRC PUMPS	20 A	1	0.5	4.52						3	50 A	PRODUCE COOLER AIR DOOR (M27)	16
15	SPARE	20 A	1			0	4.52			3	50 A	PRODUCE COOLER AIR DOOR (M27)	18	
17	SPARE	20 A	1				0	4.52		1	20 A	PUMP SKID CONTROL	20	
19	SPARE	20 A	1	0	0.18					1	20 A	PUMP SKID CONTROL	22	
21	SPARE	20 A	1				0			1	20 A	PUMP SKID CONTROL	24	
23	SPARE	20 A	1					0			3	20 A	ADVANCED GUTTER MELT	26
25	SPARE	20 A	1	0	0.66			0	0.66	3	20 A	ADVANCED GUTTER MELT	28	
27	SPARE	20 A	1			0	0.66			3	20 A	ADVANCED GUTTER MELT	30	
29	SPARE	20 A	1				0	0.66		3	20 A	ADVANCED GUTTER MELT	32	
31	SPACE	--	1	--	0.94			--	0.94	3	20 A	JOCKEY PUMP	34	
33	SPACE	--	1			--	0.94			3	50 A	DAIRY COOLER AIR DOOR (M27)	36	
35	SPACE	--	1			--	0.94			3	50 A	DAIRY COOLER AIR DOOR (M27)	38	
37	AIR DOOR CONTROL & FAN	20 A	1	0.72	4.54			0.72	4.54	3	50 A	DAIRY COOLER AIR DOOR (M27)	40	
39	AIR DOOR CONTROL & FAN	20 A	1			0.72	4.54			3	50 A	DAIRY COOLER AIR DOOR (M27)	42	
41	AIR DOOR CONTROL & FAN	20 A	1	1	3			0.72	4.54	3	40 A	AIR COMPRESSOR	44	
43	UH-4	20 A	1			0	3			1	20 A	AIR DRYER	46	
45	SPARE	20 A	1				0	3		1	20 A	UH-5	48	
47	SPARE	20 A	1	0	1.44					1	20 A	SPARE	50	
49	SPARE	20 A	1			0	1			1	20 A	UH-3	52	
51	SPARE	20 A	1			0	0	0	1	20 A	SPARE	54		
53	SPARE	20 A	1	0	2.1					3	35 A	EF-31	56	
55	SPARE	20 A	1			2.1				3	35 A	EF-31	58	
57	SPARE	20 A	1				0	2.1		1	20 A	CONTROL CIRCUIT CONDENSER	60	
59	SPARE	20 A	1	0.2			0	0.2		1	20 A	CONTROL CIRCUIT CONDENSER	62	
61	SPARE	20 A	1			0	0.2			1	20 A	CONTROL CIRCUIT CONDENSER	64	
63	SPARE	20 A	1			0	0.2			1	20 A	CONTROL CIRCUIT CONDENSER	66	
65	SPARE	20 A	1	0.2			0	0.2		1	20 A	CONTROL CIRCUIT CONDENSER	68	
67	AFAPA WATER METER	20 A	1			0.18	0.18			1	20 A	ROLL IN BAKERY	70	
69	SPARE	20 A	1				0	1.66		1	25 A	EF-2	72	
71	ANLU UV LIGHT	20 A	1	0.5	0.18					1	20 A	FIRE PUMP CONTROLLER *	74	
73	ANLU UV LIGHT	20 A	1			0.5	0.36			1	20 A	SPRINKLER SYSTEM *	76	
75	ANLU UV LIGHT	20 A	1				0.5	0.36		1	20 A	SPRINKLER SYSTEM *	78	
77	MACHINE ROOM AC	15 A	2	0.5	0.18					1	20 A	IRRIGATOR CONTROL *	80	
79	SPACE	--	1			0.5	0.68			1	20 A	EF-30	82	
81	MACHINE ROOM AC	15 A	2			0.5	0.72			1	20 A	MACHINE ROOM RECEPTACLES	84	
TOTAL LOAD:				35.9 kVA	33.5 kVA	22.2 kVA								
TOTAL AMPS:				314 A	294 A	185 A								
PANEL TOTALS														
TOTAL CONN. LOAD: 91.7 kVA														
TOTAL EST. DEMAND: 93.9 kVA														
TOTAL CONN. CURRENT: 254 A														
TOTAL EST. DEMAND CURRENT: 261 A														
NOTES: PROVIDE LABEL PER NEC 110.22														
E.C. SHALL VERIFY ALL BREAKER SIZES WITH FREEZER/COOLER CONTRACTOR BEFORE INSTALLATION														
* PROVIDE LOCK IN DEVICE AND MARK "LEAVE ON".														

BRANCH PANEL: C										VOLTS: 208/120 Wye										A.I.C. RATING: 10kA																													
SUPPLY FROM: T3										PHASES: 3										MAINS TYPE: 150A MCB																													
MOUNTING: IPC										WIRES: 4										MAINS RATING: 225 A																													
																				PANEL TYPE: SQ-D NQOD CU BUS																													
#	Circuit Description	Trip	P	A	B	C	P	Trip	Circuit Description	#	Circuit Description	Trip	P	A	B	C	P	Trip	Circuit Description	#	Circuit Description	Trip	P	A	B	C	P	Trip	Circuit Description	#																			
1	MEMBERSHIP COUNTER	20 A	1	0.36	0.36				1	20 A	MEMBERSHP COUNTER	2							1	20 A	MEMBERSHP COUNTER	2																											
3	MEMBERSHIP COUNTER	20 A	1		0.36	0.36			1	20 A	MEMBERSHP COUNTER	4							1	20 A	MEMBERSHP COUNTER	4																											
5	MEMBERSHIP COUNTER	20 A	1					0.36	0.36	1	20 A	PHARMACY RECEPTACLE	6						1	20 A	PHARMACY RECEPTACLE	6																											
7	PHARMACY RECEPTACLE	20 A	1	0.5	0.36					1	20 A	MMO MACHINE RECEPTACLE	8						1	20 A	MMO MACHINE RECEPTACLE	8																											
9	PHARMACY RECEPTACLE	20 A	1			0.54	0.54			1	20 A	OPTICAL EXAM RECEIPT	10						1	20 A	OPTICAL EXAM RECEIPT	10																											
11	HEARING AID RECEPTACLE	20 A	1					0.48	0.54	1	20 A	OPTICAL RECEIPT ***	12						1	20 A	OPTICAL RECEIPT ***	12																											
13	FOOD SERVICE CASH REGISTER ***	20 A	1	0.36	0.36					1	20 A	MMO MACHINE RECEPTACLE	14						1	20 A	MMO MACHINE RECEPTACLE	14																											
15	FOOD SERVICE CASH REGISTER ***	20 A	1			0.36	0			1	20 A	SPARE	16						1	20 A	SPARE	16																											
17	PHARMACY RECEPTACLE	20 A	1					0.54	1	1	20 A	MANAGER PODIUM RECEPTACLE	18						1	20 A	MANAGER PODIUM RECEPTACLE	18																											
19	MANAGER OFFICE RECEPTACLE	20 A	1	0.72	0.18					1	20 A	TIRE CENTER RECEPTACLE	20						1	20 A	TIRE CENTER RECEPTACLE	20																											
21	FOOD SERVICE SCALE RECEIPT ***	20 A	1			0.18	0.36			1	20 A	TIRE CENTER RECEPTACLE	22						1	20 A	TIRE CENTER RECEPTACLE	22																											
23	LOOKER ROOM RECEPTACLE	20 A	1					0.36	0.18	1	20 A	TIRE CENTER RECEPTACLE	24						1	20 A	TIRE CENTER RECEPTACLE	24																											
25	ATM MACHINE & CARD READER *	20 A	1	0.36	0.36					1	20 A	OFFICE RECEPTACLE	26						1	20 A	OFFICE RECEPTACLE	26																											
27	PHARMACY RECEPTACLE	20 A	1			0.54	0.72			1	20 A	OFFICE RECEPTACLE	28						1	20 A	OFFICE RECEPTACLE	28																											
29	PHARMACY RECEPTACLE	20 A	1					0.54	0.54	1	20 A	OFFICE RECEPTACLE	30						1	20 A	OFFICE RECEPTACLE	30																											
31	PHARMACY RECEPTACLE	20 A	1	0.54	0					1	20 A	SPARE	32						1	20 A	SPARE	32																											
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34						1	20 A	SPARE	34																											
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36						1	20 A	SPARE	36																											
37	DOOR ALARM *	20 A	1	0.36	0.54					1	20 A	OPTICAL RECEPTACLE	38						1	20 A	OPTICAL RECEPTACLE	38																											
39	FIRE ALARM PANEL ***	20 A	1			0.18	0.54			1	20 A	OPTICAL RECEPTACLE	40						1	20 A	OPTICAL RECEPTACLE	40																											
41	COPY MACHINE RECEPTACLE	20 A	1					0.18	0.36	1	20 A	OPTICAL RECEPTACLE	42						1	20 A	OPTICAL RECEPTACLE	42																											
43	HEARING AID BOOTH RECEPTACLE	20 A	1	1	0					1	20 A	SPARE	44						1	20 A	SPARE	44																											
45	HEARING AID BOOTH RECEPTACLE	20 A	1			1.08	0.18			1	20 A	MPU RECEPTACLE	46						1	20 A	MPU RECEPTACLE	46																											
47	HEARING AID BOOTH RECEPTACLE	20 A	1					1	0.54	1	20 A	OFFICE RECEPTACLES	48						1	20 A	OFFICE RECEPTACLES	48																											
49	HEARING AID RECEPTACLE	20 A	1	0.72	5					2	100 A	SUBFEED UPS & PANEL C1	50						2	100 A	SUBFEED UPS & PANEL C1	50																											
51	BIONGO DAS SYSTEM	20 A	1			0.18	5			1	0	1	20 A	SPARE	52																																		
53	BIONGO CELL REPEATER	20 A	1					1	0	1	20 A	SPARE	54																																				
TOTAL LOAD:				12.1 kVA		11.1 kVA		8 kVA																																									
TOTAL AMPS:				105 A		97 A		87 A																																									
										PANEL TOTALS																																							
										TOTAL CONN. LOAD: 31.2 kVA																																							
										TOTAL EST. DEMAND: 29.4 kVA																																							
										TOTAL CONN. CURRENT: 87 A																																							
										TOTAL EST. DEMAND CURRENT: 82 A																																							
NOTES: PROVIDE ISOLATED GROUND BUS FOR THIS PANEL																																																	
* PROVIDE LOCK IN DEVICE & MARK "LEAVE ON".																																																	
** IDENTIFIED RED CIRCUIT BREAKER. PANEL HAS LOCKABLE COVER																																																	
*** PROVIDE GFI BREAKER																																																	

BRANCH PANEL: C1										VOLTS: 240/120										A.I.C. RATING: 10kA											
SUPPLY FROM:										PHASES: 1										MAINS TYPE: 100A MCB											
MOUNTING: IPC										WIRES: 3										MAINS RATING: 100 A											
																				PANEL TYPE: SQ-D NQOD CU BUS											
#	Circuit Description	Trip	P	A	B	C	P	Trip	Circuit Description	#	Circuit Description	Trip	P	A	B	C	P	Trip	Circuit Description	#	Circuit Description	Trip	P	A	B	C	P	Trip	Circuit Description	#	
1	CASH REGISTER	20 A	1	0.4	0.4				1	20 A	CASH REGISTER	2							1	20 A	CASH REGISTER	4									
3	CASH REGISTER	20 A	1			0.4	0.4		1	20 A	CASH REGISTER	4							1	20 A	CASH REGISTER	4									
5	CASH REGISTER	20 A	1	0.4	0.4				1	20 A	CASH REGISTER	6							1	20 A	CASH REGISTER	6									
7	CASH REGISTER	20 A	1			0.4	0.4		1	20 A	CASH REGISTER	8							1	20 A	CASH REGISTER	8									
9	CASH REGISTER	20 A	1	0.4	0.4				1	20 A	CASH REGISTER	10							1	20 A	CASH REGISTER	10									
11	CASH REGISTER	20 A	1			0.4	0.4		1	20 A	CASH REGISTER	12							1	20 A	CASH REGISTER	12									
13	SPARE	20 A	1	0	0				1	20 A	SPARE	14							1	20 A	SPARE	14									
15	SPARE	20 A	1			0	0		1	20 A	SPARE	16							1	20 A	SPARE	16									
17	INFLEX PANEL *	20 A	1	0.36	0.18				1	20 A	EDP RECEPTACLE	18							1	20 A	EDP RECEPTACLE	18									
19	SPARE	20 A	1			0	0.18		1	20 A	EDP RECEPTACLE	20							1	20 A	EDP RECEPTACLE	20									
21	BMS - PANEL *	20 A	1	0	0.18				1	20 A	EDP RECEPTACLE	22							1	20 A	EDP RECEPTACLE	22									
23	SPARE	20 A	1			0	0.18		1	20 A	EDP RECEPTACLE	24							1	20 A	EDP RECEPTACLE	24									
25	MMO MACHINE RECEPTACLE *	20 A	1	0	0.18				1	20 A	MEMBERSHIP BP *	26							1	20 A	MEMBERSHIP BP *	26									
27	TELEPHONE OUTLET *	20 A	1			0.36	0		1	20 A	SPARE	28							1	20 A	SPARE	28									
29	MMO MACHINE RECEPTACLE *	20 A	1	0.18	0				1	20 A	SPARE	30							1	20 A	SPARE	30									
31	RAFTER BP *	--	1			0.18	0.4		1	20 A	SELF CHECK OUT REGISTER	32							1	20 A	SELF CHECK OUT REGISTER	32									
33	SPACE	--	1	--	0.4				1	20 A	SELF CHECK OUT REGISTER	34							1	20 A	SELF CHECK OUT REGISTER	34									
35	SPACE	--	1			--	0.4		1	20 A	SELF CHECK OUT REGISTER	36							1	20 A	SELF CHECK OUT REGISTER	36									
37	SPACE	--	1	--	0.4				1	20 A	SELF CHECK OUT REGISTER	38							1	20 A	SELF CHECK OUT REGISTER	38									
39	SPACE	--	1			--	0.4		1	20 A	SELF CHECK OUT REGISTER	40							1	20 A	SELF CHECK OUT REGISTER	40									
41	SPACE	--	1	--	0.4				1	20 A	SELF CHECK OUT REGISTER	42							1	20 A	SELF CHECK OUT REGISTER	42									
TOTAL LOAD:				5.7 A		4.5 kVA																									
TOTAL AMPS:				47 A		38 A																									
										PANEL TOTALS																					
										TOTAL CONN. LOAD:										10.2 kVA											
										TOTAL EST. DEMAND:										10.2 kVA											
										TOTAL CONN. CURRENT:										42 A											
										TOTAL EST. DEMAND CURRENT:										42 A											
NOTES: PROVIDE ISOLATED GROUND BUS FOR THIS PANEL																															
PANEL C1 RECEPTACLE SHALL HAVE RED FACELPATE AND BE LABELED UPS*																															
* PROVIDE LOCK IN DEVICE & MARK "LEAVE ON"																															



HEAT TAPE PLAN
SCALE: 1/32" = 1'-0"

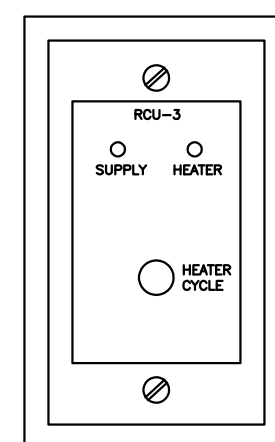
TWO RUN OF HEAT TAP
IN GUTTER. SEE LENGTH
AS SHOWN. TYP. SEE
DETAIL THIS SHEET TYP.

NOTE: DO NOT PERFORATE GUTTER, SCUPPERS OR ANY OTHER COMPONENT OF THE DRAINAGE SYSTEM. USE MANUS BOND 75AM SEALANT AS ADHESIVE TO ATTACH THE CLIPS OR ANY OTHER COMPONENTS TO THE GUTTER AND/OR SCUPPER.

GENERAL NOTES:

1. PROVIDE HEAT TAPE IN BUILDING ADDITION, & CANOPY. COORDINATE W/ARCHITECTURAL PLAN FOR ROOF DRAIN AND OVERFLOW DRAIN LOCATIONS.
2. PROVIDE A COMPLETE HEAT TAPE SYSTEM. INSTALL PER MANUFACTURER RECOMMENDATIONS
3. THE INSTALLATION OF THE HEAT TAPE AND ICE MELTING CABLE SHALL COMPLY WITH THE LATEST NEC
4. E.C. TO PROVIDE ALL LOW VOLTAGE WIRING IN CONDUIT, MINIMUM OF 1/2" C.
5. E.C. TO PROVIDE LAMACOID LABEL FOR ALL HEAT TAPE ELECTRICAL DEVICES.

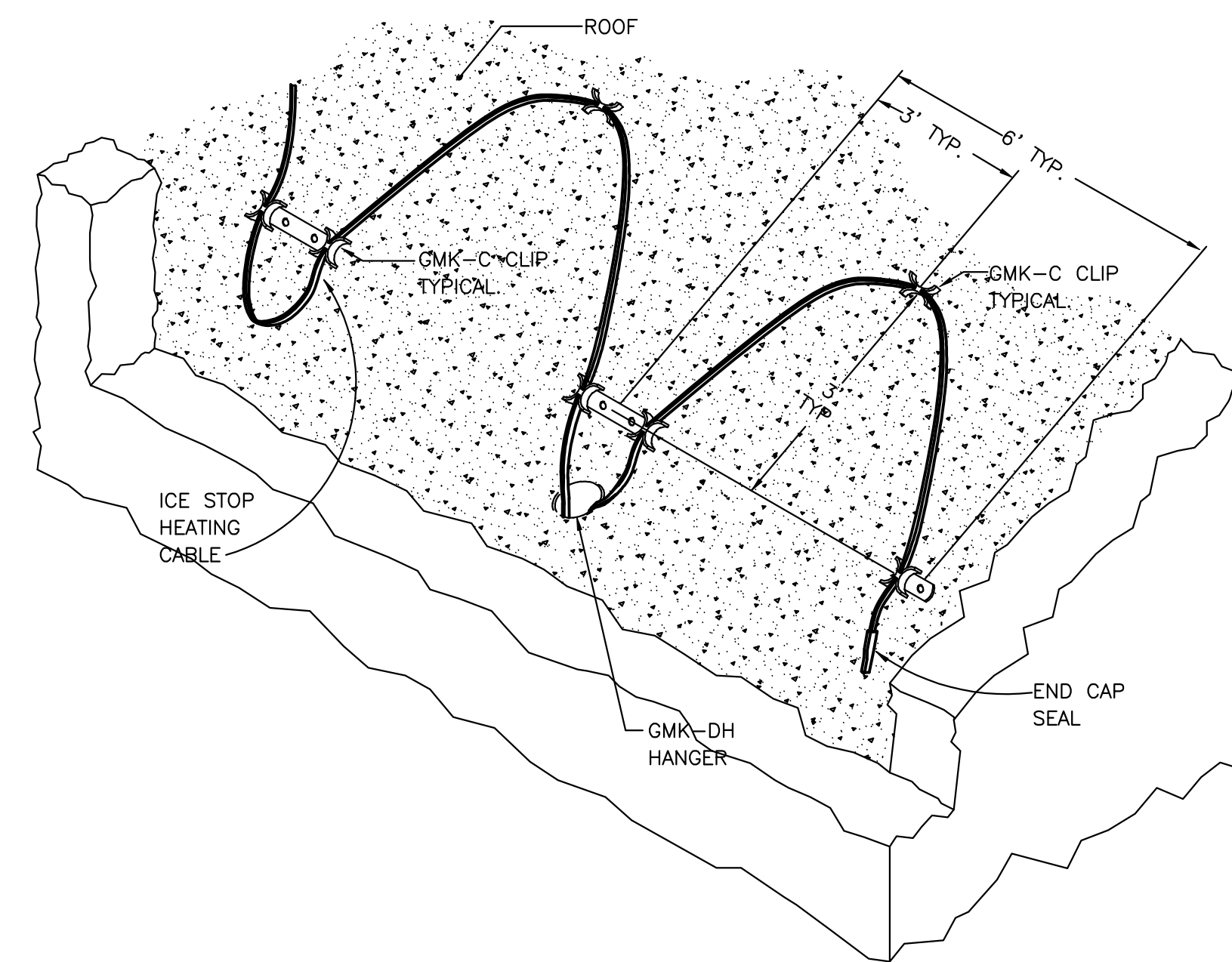
ROOF HEAT TAPE INDICATORS



HEAT TAPE INDICATOR DETAIL

NO SCALE

- HEAT TAPE INDICATOR DETAIL NOTE:
1. SURFACE MOUNT ON BLOCK WALL 6-12" FROM MEMBERSHIP POP-OUT WALL, OFFICE SIDE OF MEMBERSHIP IN SINGLE GANG BOX.

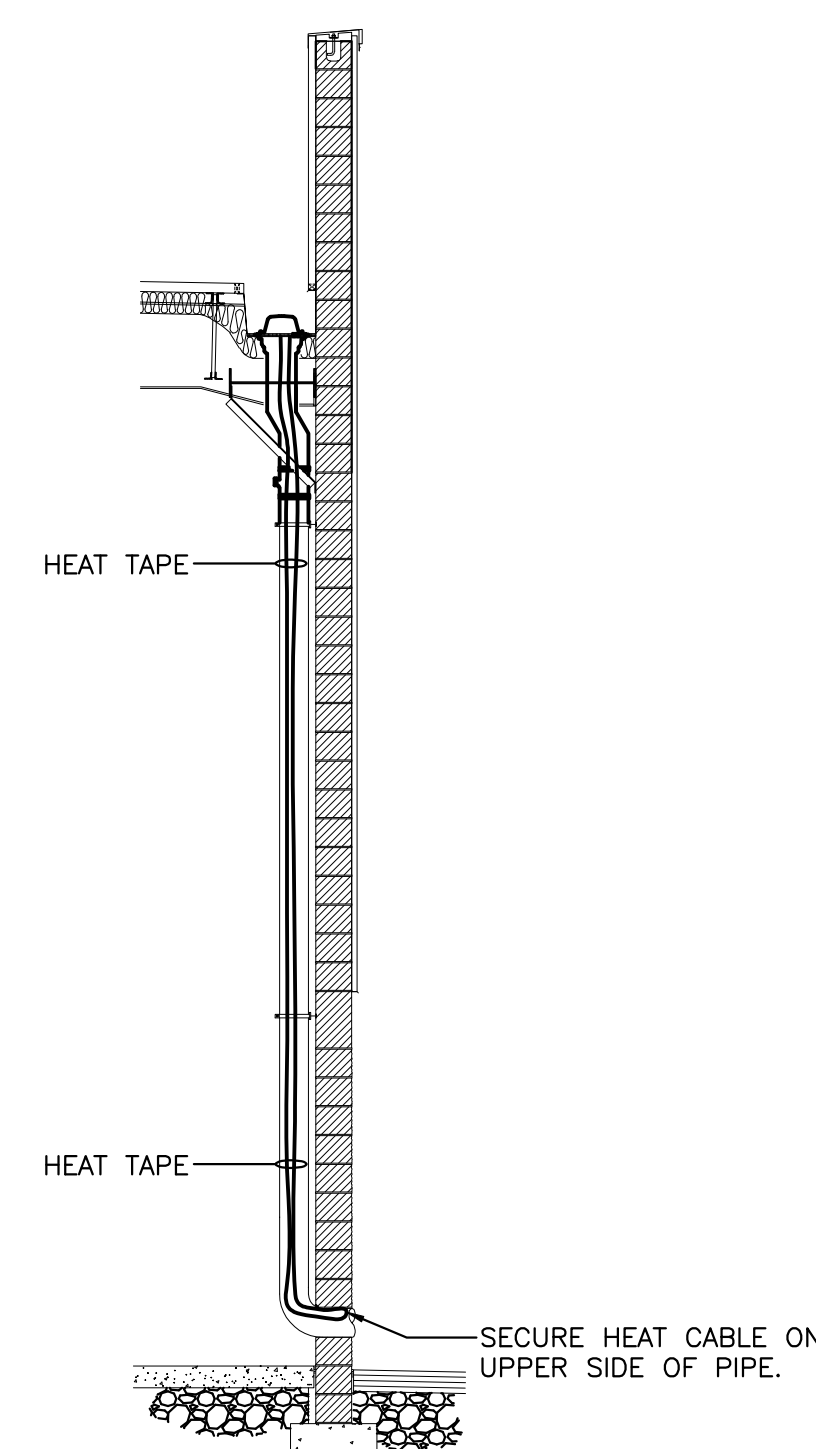


HEAT TAPE DETAIL

NO SCALE

HEAT TAPE DETAIL NOTES:

1. INSTALL HEAT CABLES AS RECOMENDED BY MANUFACTURER.
2. SEAL ALL PENETRATIONS.



OVERFLOW DRAIN DETAIL

NO SCALE

SITE PLAN NOTES:

- ① SECONDARY SERVICE LATERAL, VERIFY EXACT ROUTING PRIOR TO BID. SEE ONE LINE DIAGRAM, COORDINATE WITH THE POWER COMPANY FOR ALL REQUIREMENTS FOR CONNECTION OF THE TRANSFORMER. SEE NOTE ②
- ② TRANSFORMER IS PROVIDED BY POWER CO. E.C. SHALL COORDINATE WITH POWER COMPANY FOR ALL INSTALLATION OF TRANSFORMER & ITS CONNECTION. PROVIDE GUARD POSTS, TRANSFORMER PAD, ETC. AS REQUIRED. MEET ALL POWER COMPANY REQUIREMENTS, INCLUDE ALL CHARGES IN BID.
- ③ UTILITY METERING, INSTALL ALL METERING EQUIPMENT SUPPLY BY POWER CO. AS REQUIRED.
- ④ PRIMARY CONDUITS AND TRENCHING ARE PROVIDED BY G.C. / E.C. VERIFY EXACT LOCATION AND REQUIREMENT WITH THE UTILITY COMPANY PRIOR TO BID. OBTAIN ALL CHARGES PRIOR TO BID, INCLUDE IN BID. SEE CIVIL DRAWINGS FOR EXACT LOCATION. PROVIDE 6" BED OF CLEAN SAND FOR PRIMARY CONDUIT. COVER WITH 12" OF CLEAN SAND. COVER WITH CABLE WARNING TAPE AND BACKFILL. PROVIDE HEAVY DUTY TRAFFIC RATED COVERPLATE FOR PULL BOXES.
- ⑤ PROVIDE AND INSTALL TELEPHONE TERMINAL BOARD AS DIRECTED BY THE TELEPHONE COMPANY. ALLOW (1) - 4' X 8' X 3/4" EXTERIOR PLYWOOD BOARD WITH (2) COATS VARNISH FOR BIDDING. THREE (3) 4" SCHEDULE 40 ENTRANCE CONDUITS AT A DEPTH OF 36" MIN. FROM THE TELEPHONE BOARD TO THE TELEPHONE COMPANY. TERMINATION POINT, A PULL WIRE MUST BE PLACED IN ALL TELEPHONE CONDUITS FOR PROOFING AND PULLING PURPOSES. ALSO PLACE A STAKE AT THE END OF ALL TELEPHONE ENTRANCE CONDUITS. VERIFY EXACT LOCATION AND REQUIREMENTS PRIOR TO BID. SEE SHEET "E-6" FOR THE TELEPHONE BOARD LOCATION. PROVIDE A #6 COPPER GROUND WIRE FROM TELEPHONE BOARD TO BUILDING GROUNDING SYSTEM.
- ⑥ GENERAL & ELECTRICAL CONTRACTORS SHALL COORDINATE WITH POWER & TELEPHONE COMPANIES TO BRING THE POWER & TELEPHONE SERVICES TO THE BUILDING.

- ⑦ E.C. TO PROVIDE J-BOX(ES) FOR GAS STATION CONDUITS AS REQUIRED FOR EVERY 250' OR AFTER (2) 90 DEGREES BENDS. SEAL ALL CONDUITS PER CODE. SEE ARCHITECTURAL & CIVIL DRAWINGS FOR ROUTING.
- ⑧ TYPICAL GAS STATION TRANSFORMER LOCATION. G.C. AND E.C. SHALL VERIFY REQUIREMENTS AND LOCATION WITH ARCHITECT. E.C. SHALL COORDINATE WITH POWER COMPANY FOR ALL INSTALLATION OF TRANSFORMER & ITS CONNECTION. PROVIDE GUARD POST, TRANSFORMER TRENCHING, PRIMARY CONDUIT, ETC. AS REQUIRED. MEET ALL POWER COMPANY REQUIREMENTS, INCLUDE ALL CHARGES IN BID.
- ⑨ E.C. TO PROVIDE COPPERWELD 5/8" Ø X 10' LONG GROUND ROD AT THE LIGHT POLE TYP. BOND GROUND WIRES TO GROUND ROD.
- ⑩ POLE MANUFACTURER TO PROVIDE POLE ID ON THE HANDHOLE COVER. LABEL POLE NUMBER AND CIRCUIT NUMBER PER PLAN. EXAMPLE: POLE #1, H2/54,56, 2"X4" LABEL. 1/4" HIGH ENGRAVED LETTERS. COVER SHALL BE SECURED WITH TAMPER-PROOF SCREWS. E.C. TO VERIFY CIRCUIT NUMBERS PER PLAN AND ENSURE THE CORRECT INSTALLATION OF LABEL / COVER FOR EACH POLE.
- ⑪ E.C. TO SEAL UNDERGROUND CONDUITS WITHIN 10' OF ENTERING GROUND ON BOTH ENDS. SEAL POLE AND ASSOCIATED J-BOX. PROVIDE EXPLOSION-PROOF-RATED J-BOX AND OTHER ELECTRICAL DEVICES NEAR FUELING FACILITY. REFER TO NEC ARTICLE 514.
- ⑫ E.C. TO PROVIDE 1" DATA AND 1" FOR POWER FOR CAMERAS ON POLES. COORDINATE W/ POLE MANUFACTURER TO PROVIDE 3/4" HOLE Ø 15' A.F.G. AND 3/4" HOLE AT 16' A.F.G. E.C. IS RESPONSIBLE TO PROVIDE AND INSTALL ALL ACCESSORIES PER DETAIL AND MAKE ALL FINAL CONNECTIONS TO POLE RECEPTACLE. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER	NUMBER	LAMPS	MOUNT	WATT	REMARKS	COLOR
P	COOPER	GALN-SA8B-740-U-5WQ-BZ	LED	POLE	325	36"-6" ABOVE FINISHED GRADE. ROUND TAPERED FIBERGLASS/FIBERGLASS POLE (VALMONT COSTCO-150-10-36.5 POLE). NUMBER OF HEADS SHALL BE PER PLAN. SEE DETAIL SHEET SE-1. FIXTURE SHALL BE POWDER PAINTED. ELECTRO-STATIC APPLICATION POLE SHALL HAVE MIN EPA=10 FOR 150 MPH WIND.	4000K
P1	COOPER	GALN-SA6B-740-U-SL3-HSS	LED	POLE	243		
P2	COOPER	GALN-SA4B-740-U-SLR-HSS	LED	POLE	164		
P3	COOPER	GALN-SA4B-740-U-SLL-HSS	LED	POLE			

