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Philip Haught

PRINTED NAME: PHILIP C. HAUGHT
DATE: 03/31/2025 LICENSE #: 59791

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ANOKA, MN

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PROJECT NO.: 09625002

NO. DATE DESCRIPTION

ELECTRICAL GENERAL NOTES

- COORDINATE LOCATIONS OF DEVICES WITH ALL DISCIPLINE'S ELEVATIONS AND DETAILS. OTHER DISCIPLINE'S ELEVATIONS AND DETAILS TAKE PRIORITY OVER LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS.
- IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS AND THOSE REQUIRING ELECTRICAL CONNECTIONS TO MAINTAIN NEC REQUIRED CLEARANCES, INCLUDING, BUT NOT LIMITED TO, AREAS ABOVE ACCESSIBLE CEILINGS.
- COORDINATE WITH OTHER TRADES FOR PROPER INSTALLATION OF EQUIPMENT. CONSULT THE DRAWINGS OF OTHER TRADES OR CRAFTS TO AVOID CONFLICTS WITH EQUIPMENT, ETC. CONFLICTS SHALL BE RESOLVED PRIOR TO ROUGH-IN AND AT NO ADDITIONAL COST TO THE OWNER.
- LEAVE THE SITE CLEAN AND READY FOR OCCUPANCY. REMOVE DIRT, DEBRIS, TOOLS, EMPTY CARTONS, WIRE SCRAPS, AND CONDUIT, AND MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THIS DIVISION OF THE WORK DURING CONSTRUCTION. COMPONENTS SHALL BE FREE OF DUST, GRIT, AND FOREIGN MATERIALS AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
- PERFORM WORK TO COMPLY WITH THE STANDARD PRACTICES FOR GOOD WORKMANSHIP PUBLISHED BY NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA). COMPLY WITH THE LATEST ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES, AMENDMENTS, AND ORDINANCES.
- FIELD COORDINATE ALL EQUIPMENT LOCATIONS ALONG WITH THE CONNECTION REQUIREMENTS AND CONTROL WIRING PRIOR TO ISSUING SUBMITTALS. ADJUST CORRESPONDING CIRCUIT BREAKER RATINGS AND BRANCH CIRCUITING ACCORDINGLY.

ELECTRICAL REMODEL NOTES

- EXISTING INFORMATION INDICATED ON THESE PLANS MAY NOT REPRESENT ALL EXISTING CONDITIONS. THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS, SCOPE OF PHASING, AND PROJECT INTENT PRIOR TO BID SUBMISSION. NO EXTRA WILL BE ALLOWED DUE TO THE LACK OF KNOWLEDGE OF EXISTING CONDITIONS TO COORDINATE RELOCATION AND DEMOLITION OF ELECTRICAL SYSTEMS.
- COORDINATE WORK IN PHASES WITH CONTRACT DOCUMENTS, GENERAL CONTRACTOR, CONSTRUCTION MANAGER, AND OWNER REPRESENTATIVE TO FACILITATE DEMOLITION AND NEW CONSTRUCTION.

ELECTRICAL SYMBOLS AND ABBREVIATIONS

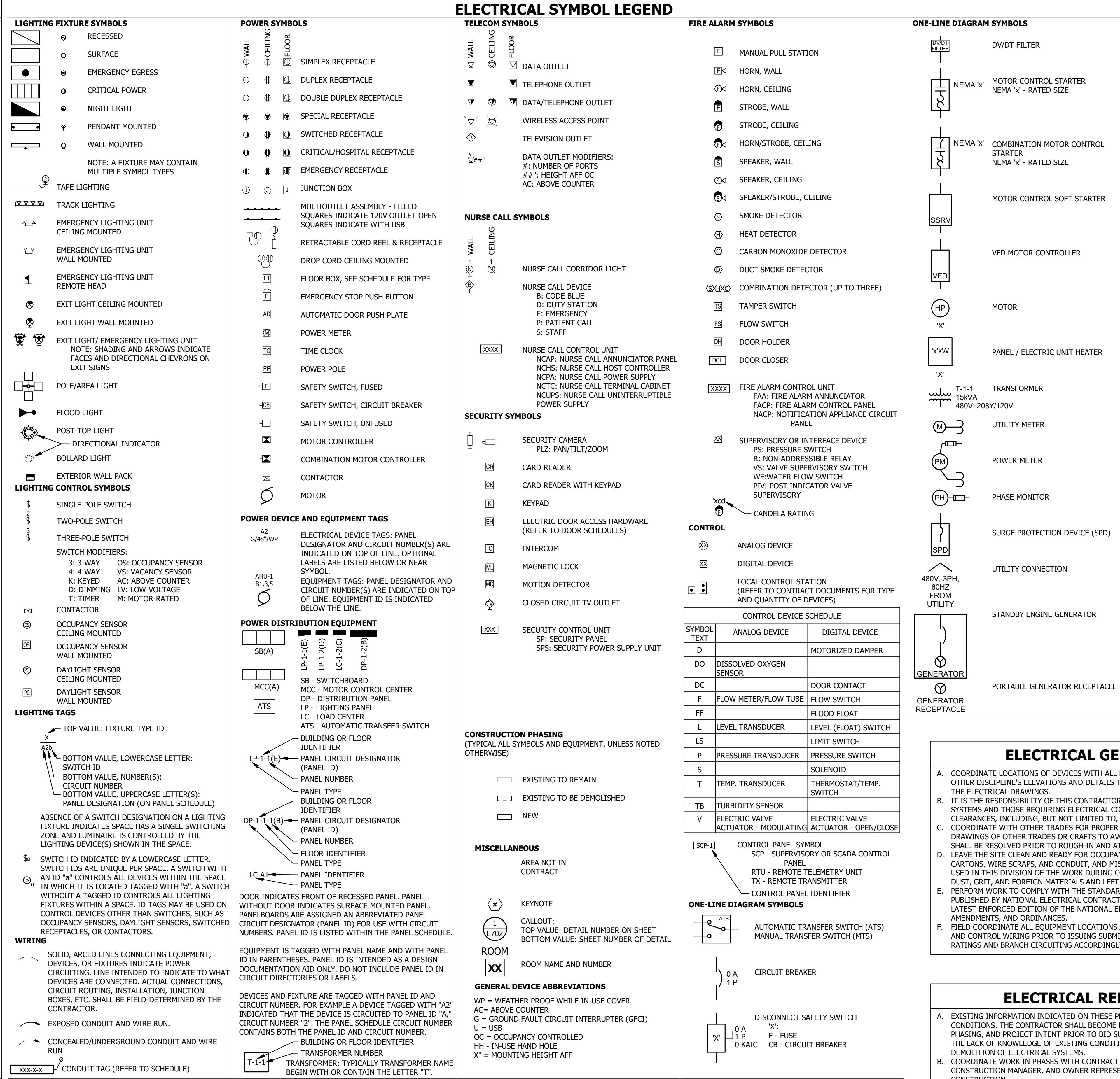
DRAWING NO.

E001

ELECTRICAL ABBREVIATIONS

1P	1 POLE (2P, 3P, 4P, ETC.)	MC	MECHANICAL CONTRACTOR
A, AMP	AMPERE	MCB	MAIN CIRCUIT BREAKER
AC	ABOVE CEILING	MCC	MOTOR CONTROL CENTER
ACLG	ABOVE CEILING	MCCB	MOLDED CASE CIRCUIT BREAKER
ADO	AUTOMATIC DOOR OPENER	MCP	MOTOR CIRCUIT PROTECTOR
AFF	ABOVE FINISHED FLOOR	MDP	MAIN DISTRIBUTION PANEL
AFG	ABOVE FINISHED GRADE	MFR	MANUFACTURER
AFI	ARC FAULT CIRCUIT INTERRUPTER	MFS	MAIN FUSED DISCONNECT SWITCH
AHU	AIR HANDLING UNIT	MH	MANHOLE
AL	ALUMINUM	MIC	MICROPHONE
ALT	ALTERNATE	MIN	MINIMUM
AMP	AMPERE	MLO	MAIN LUGS ONLY
AMPL	AMPLIFIER	MMS	MANUAL MOTOR STARTER
ANN	ANNUNCIATOR	MOA	MULTIOUTLET ASSEMBLY
APPX	APPROXIMATELY	MSP	MOTOR STARTER PANELBOARD
AQ-ST	AQUASTAT	MSB	MAIN SWITCHBOARD
ARCH	ARCHITECT, ARCHITECTURAL	MSD	MAIN SERVICE DISCONNECT
ATS	AUTOMATIC TRANSFER SWITCH	MSS	MOTOR STARTER SWITCH
AUTO	AUTOMATIC	MT	MOUNT
AUX	AUXILIARY	MTS	MANUAL TRANSFER SWITCH
AV	AUDIO VISUAL	MTR	MOTOR, MOTORIZED
AWG	AMERICAN WIRE GAUGE	N.C.	NORMALLY CLOSED
BATT	BATTERY	NEC	NATIONAL ELECTRICAL CODE
BD	BOARD	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
BLDG	BUILDING	NIC	NOT IN CONTRACT
BMS	BUILDING MANAGEMENT SYSTEM	NL	NIGHT LIGHT
C	CONDUIT	N.O.	NORMALLY OPEN
CAB	CABINET	NPF	NORMAL POWER FACTOR
CATV	CABLE TELEVISION	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OC	ON CENTER
CCTV	CLOSED CIRCUIT TELEVISION	OH	OVERHEAD
CKT	CIRCUIT	OL	OVERLOADS
CLG	CEILING	PA	PUBLIC ADDRESS
COMB	COMBINATION	PB	PULL BOX OR PUSHBUTTON
CMPC	COMPRESSOR	PED	PEDESTAL
CONN	CONNECTION	PF	POWER FACTOR
CONT	CONTINUATION OR CONTINUOUS	PH	PHASE
CP	CONTROL PANEL	PM	POWER METER
CT	CURRENT TRANSFORMER	PNL	PANEL
CTR	CENTER	PP	POWER POLE
CU	COPPER	PRI	PRIMARY
DEPT	DEPARTMENT	PRV	POWER ROOF VENTILATOR
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE (CONDUIT)
DISC	DISCONNECT	PWR	POWER
DN	DOWN	RCPT	RECEPTACLE
DPR	DAMPER	RM	ROOM
DS	SAFETY DISCONNECT SWITCH	RSC	RIGID STEEL CONDUIT
DT	DOUBLE THROW	RTU	ROOF TOP UNIT
DWG	DRAWING	SCC	SHORT-CIRCUIT CURRENT
EC	ELECTRICAL CONTRACTOR	SEC	SECONDARY
ELEC	ELECTRIC, ELECTRICAL	SHT	SHEET
ELEV	ELEVATOR	SIM	SIMILAR
ELU	EMERGENCY LIGHTING UNIT	SPEC	SPECIFICATION
EM	EMERGENCY	SPK	SPEAKER
EMS	ENERGY MANAGEMENT SYSTEM	SP	SPARE
EMT	ELECTRICAL METALLIC TUBING	SPC	SPARE
EP	ELECTRIC PNEUMATIC	SPD	SPARE
EQUIP	EQUIPMENT	SPD	SPARE
EWC	ELECTRIC WATER COOLER	SPDP	SPARE
EXIST	EXISTING	SPDP	SPARE
EXH	EXHAUST	SPDP	SPARE
EXP	EXPLOSION PROOF	SPDP	SPARE
FA	FIRE ALARM	SPDP	SPARE
FACP	FIRE ALARM CONTROL PANEL	STA	STATION
FCU	FAN COIL UNIT	STD	STANDARD
FIXT	Fixture	SW	SWITCH
FLR	FLOOR	SB	SWITCHBOARD
FLUOR	FLUORESCENT	SYM	SYMMETRICAL
FUDS	FUSED SAFETY DISCONNECT	SY	SYSTEM
GA	GAUGE	TC	TIME CLOCK
GALV	GALVANIZED	TEL	TELEPHONE
GC	GENERAL CONTRACTOR	TERM	TERMINAL
GEN	GENERATOR	TL	TWIST LOCK
GFI	GROUND FAULT CIRCUIT INTERRUPTER	TR	TAMPER RESISTANT
GFP	GROUND FAULT PROTECTOR	TV	TELEVISION
GND	GROUND	TVTC	TELEVISION TERMINAL
GYP BD	GYPSUM BOARD	TYP	TYPICAL
HMC	MOTOR PROTECTION CIRCUIT	UC	UNDER COUNTER
HOA	HANDS-OFF-AUTOMATIC SWITCH	UG	UNDERGROUND ELECTRICAL
HORZ	HORIZONTAL	UG	UNDERGROUND
HMC	MOTOR PROTECTION CIRCUIT	UH	UNIT HEATER
HP	HORSEPOWER	UT	UNDERGROUND TELEPHONE
HT	HEIGHT	UTIL	UTILITY
HTG	HEATING	UV	ULTRAVIOLET
HTR	HEATER	V	VOLT
HV	HIGH VOLTAGE	VA	VOLT-AMPERES
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	VFD	VARIABLE FREQUENCY DRIVE
IG	ISOLATED GROUND	VOL	VOLUME
IMC	INTERMEDIATE METAL CONDUIT	W	WATT
INCAND	INCANDESCENT	W/	WITH
IR	INFRARED	WG	WIRE GUARD
I/W	INTERLOCK WITH	WH	WATER HEATER
J-BOX	JUNCTION BOX	W/O	WITHOUT
KAIC	KILO-AMPS INTERRUPTING	WP	WEATHERPROOF
KV	KILOVOLT	XFM	TRANSFORMER
KVA	KILOVOLT-AMPERE	XFR	TRANSFER
KW	KILOWATT	ANGLE	ANGLE
KWH	KILOWATT HOUR	AT	AT
LOC	LOCATE OR LOCATION	DELTA	DELTA
LT	LIGHT	FEET	FEET
LTG	LIGHTING	"	" INCHES
LNG	LIGHTNING	#	NUMBER
LV	LOW VOLTAGE	Ø	PHASE
MAX	MAXIMUM	C	CENTER LINE
MAG.S	MAGNETIC STARTER	P	PLATE
M/C	MOMENTARY CONTACT	XXX-X-X	CONDUIT TAG (REFER TO SCHEDULE)

ELECTRICAL SYMBOL LEGEND



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PRINTED NAME: PHILIP C. HAUGHT

DATE: 03/31/2025

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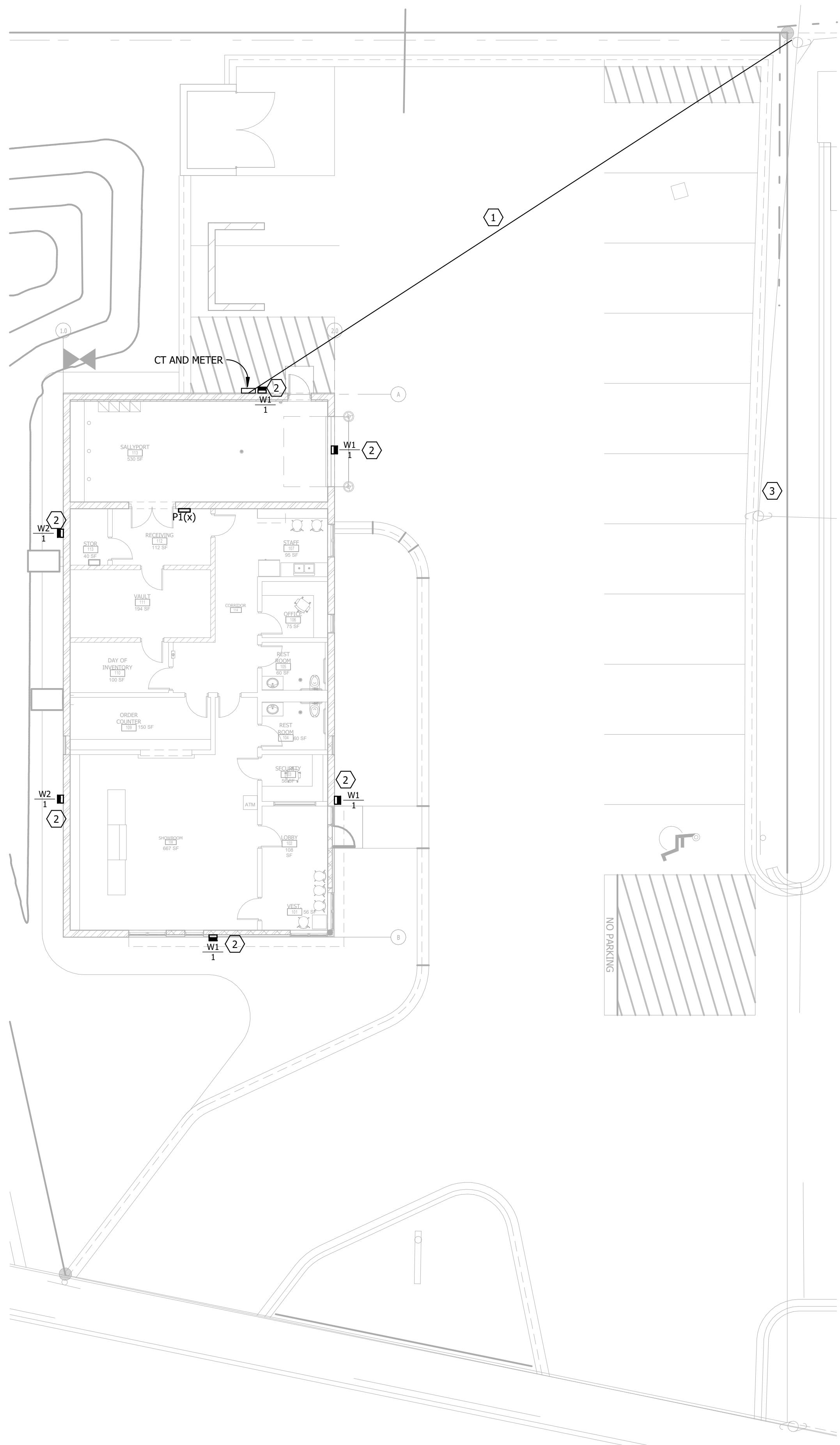
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NO.	DATE	DESCRIPTION

ELECTRICAL SITE
PLAN

DRAWING NO.

E201



1 SITE ELECTRICAL PLAN

3/32" = 1'-0"

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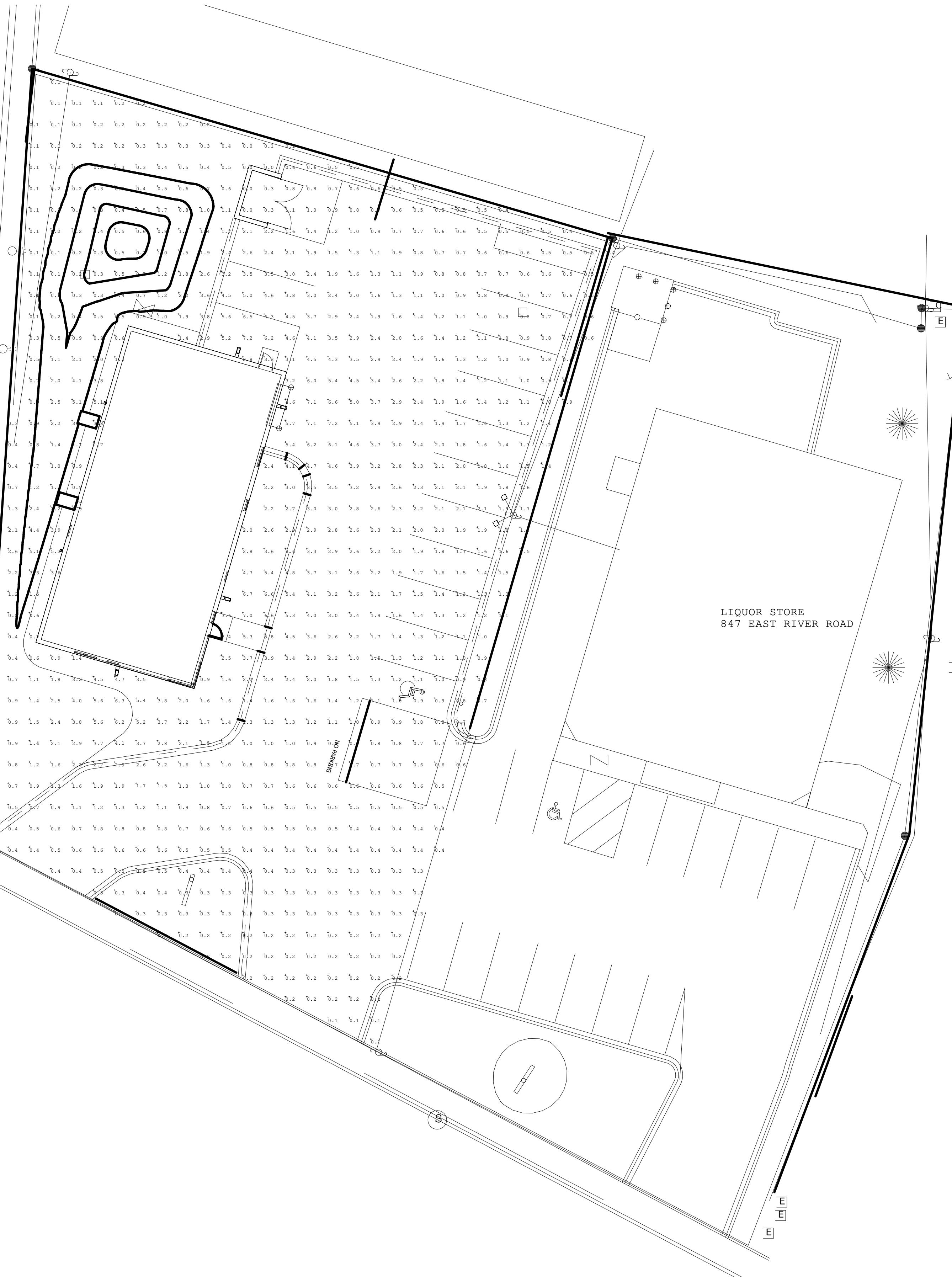
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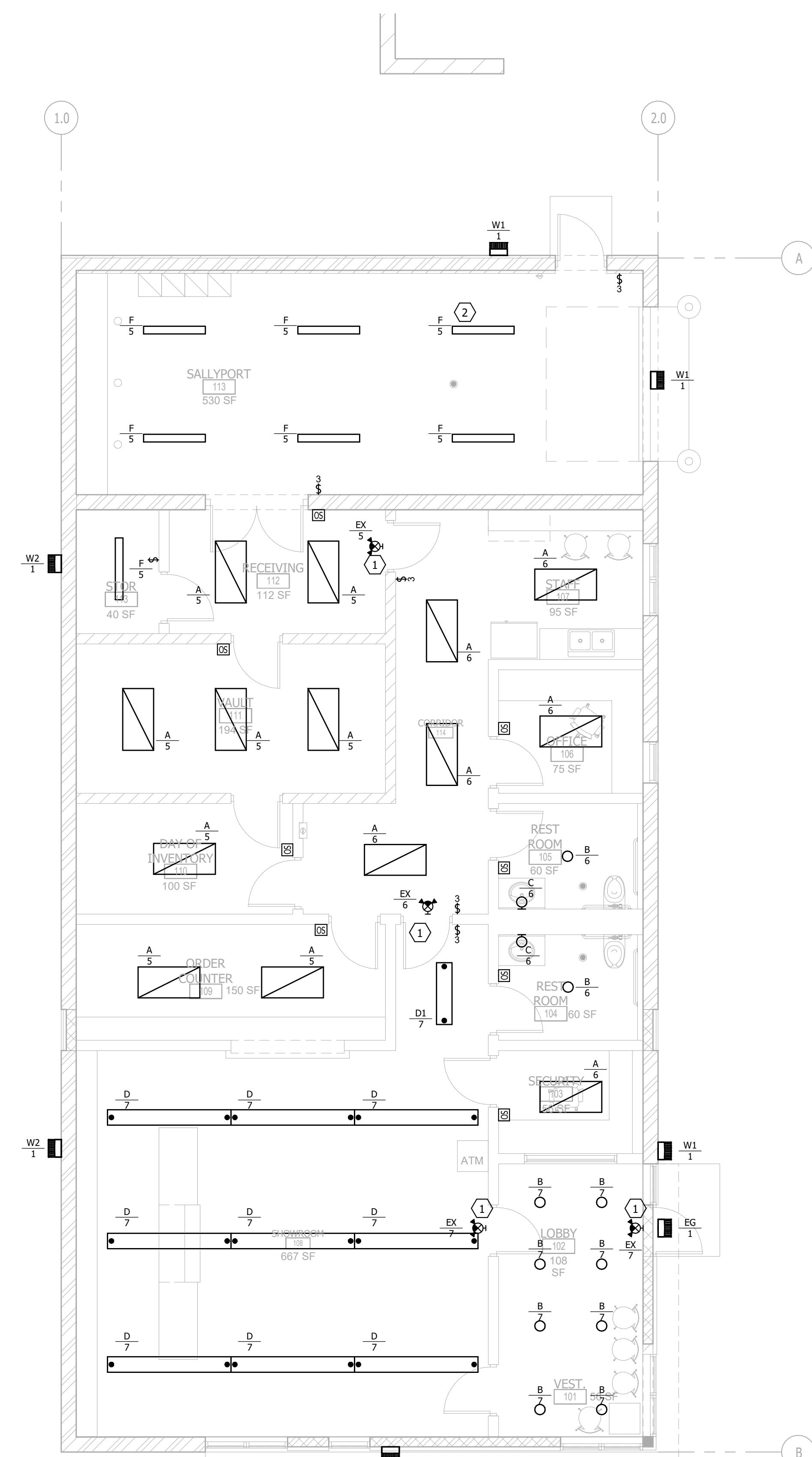
PHOTOMETRIC
SITE PLAN

DRAWING NO.

E202



Calculation Summary					
Label	CalcType	Units	Avg	Max	Min
SITE	Illuminance	Fc	1.51	7.2	0.0



GENERAL NOTES:
A. EXTERIOR LIGHTING TO BE CONTROLLED THROUGH PHOTOCELL AND TIMECLOCK.

KEYED NOTES:

1. CIRCUIT FIXTURE TO UNSWITCH LEG.
2. CIRCUIT BATTERY PACK TO UNSWITCH LEG.



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LEVEL 1 LIGHTING PLANS

DRAWING NO.

E301

LEVEL 1 LIGHTING PLAN

3/16" = 1'-0"

0 3' 6' 12'

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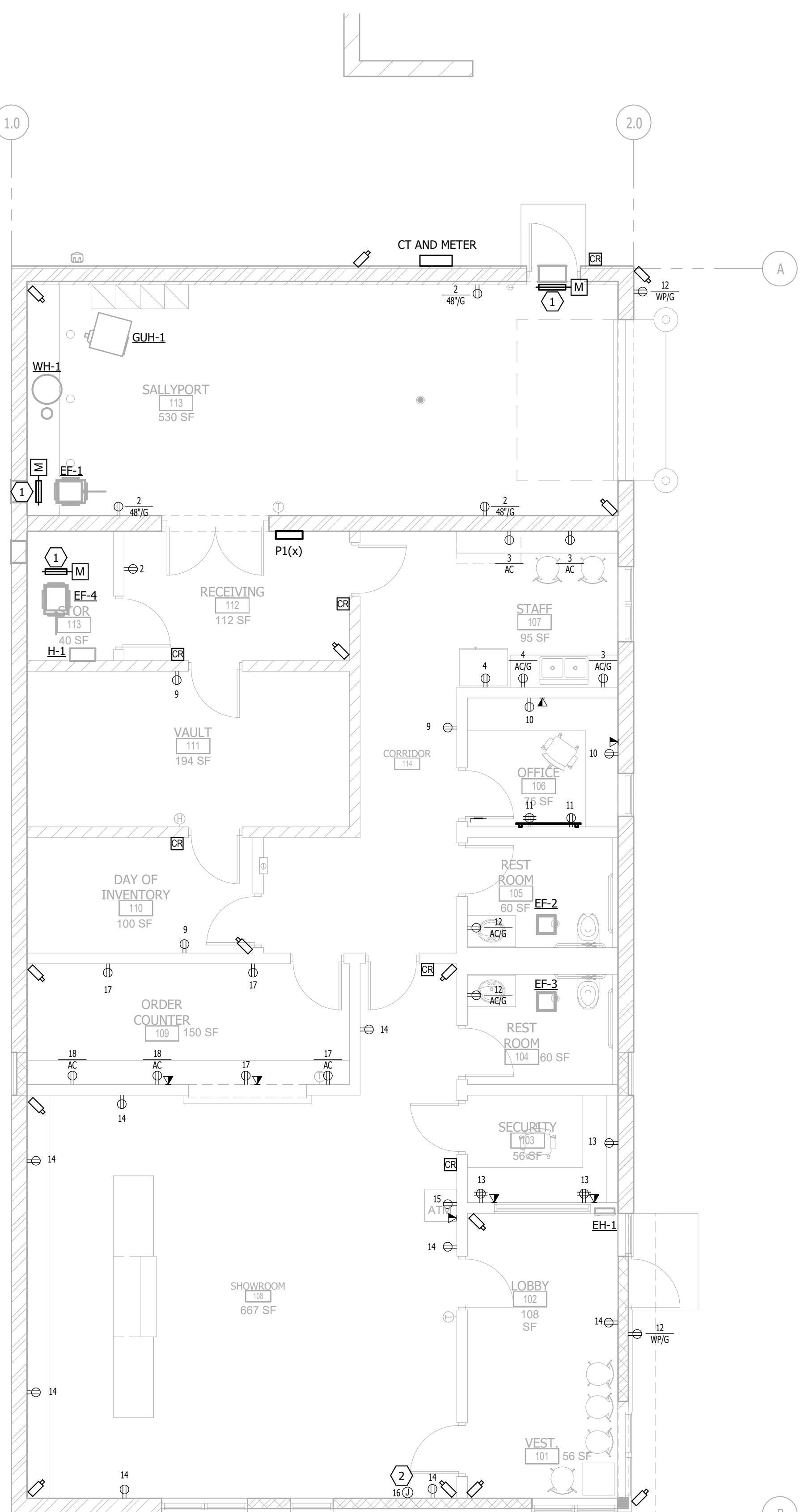
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LEVEL 1 POWER &
SYSTEMS PLANS

DRAWING NO.

E401



1 LEVEL 1 POWER PLAN
3/16" = 1'-0"
0 3' 6' 12'

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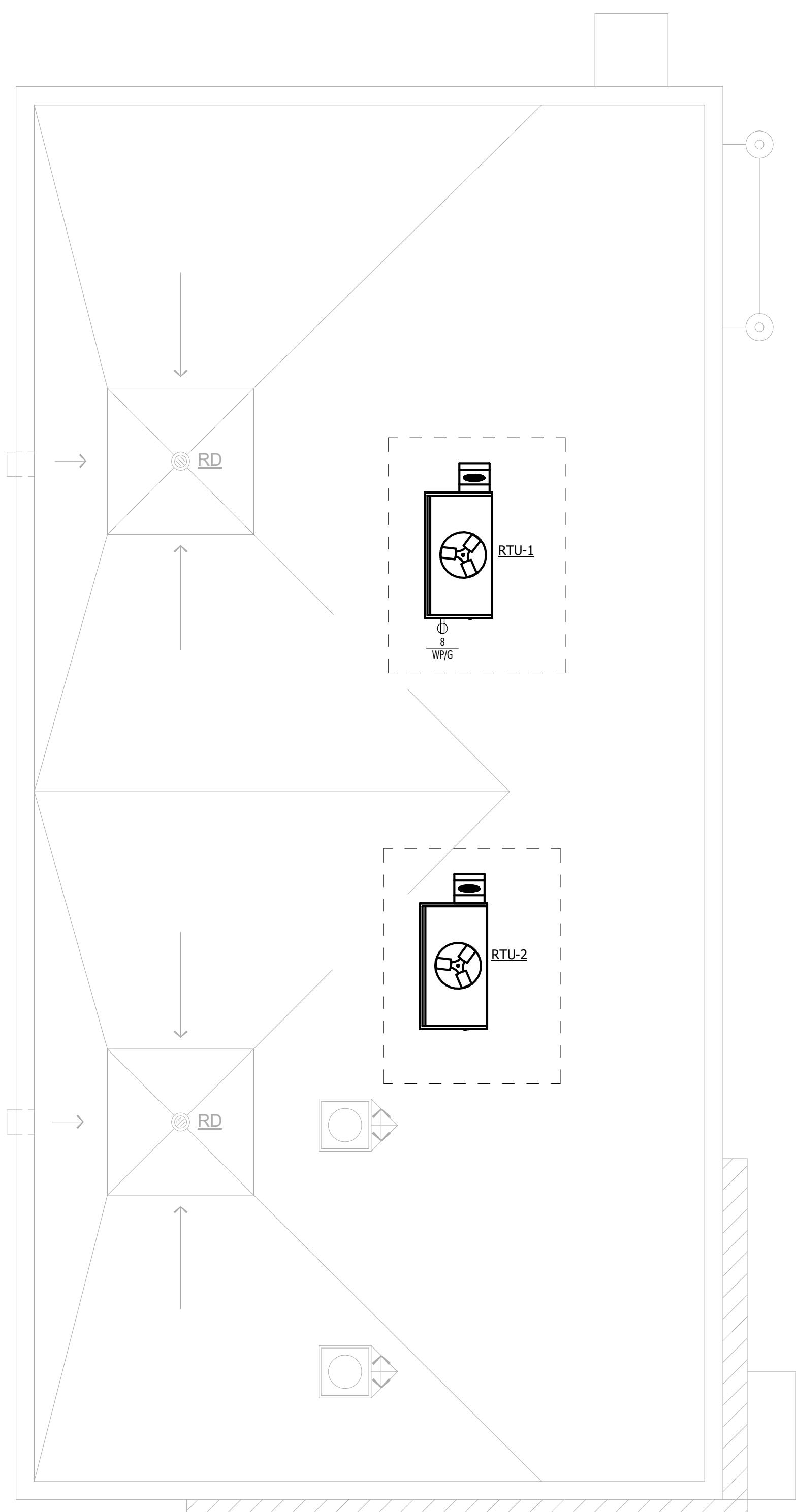
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ELECTRICAL ROOF PLAN

DRAWING NO.

E501





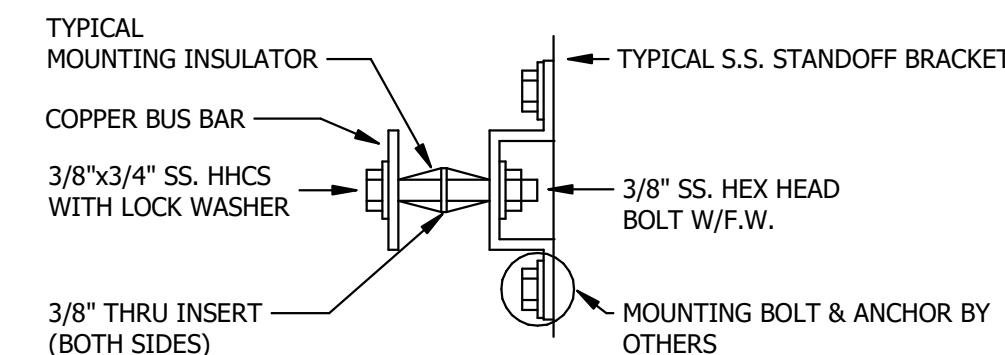
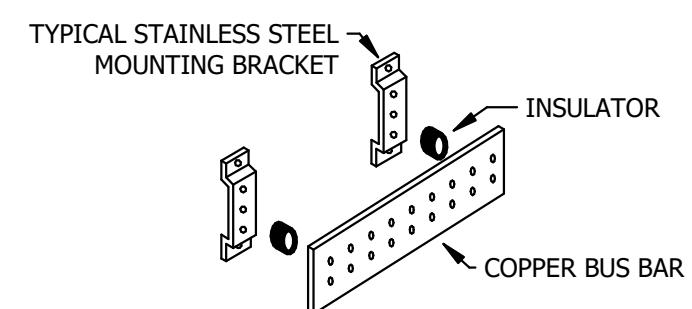
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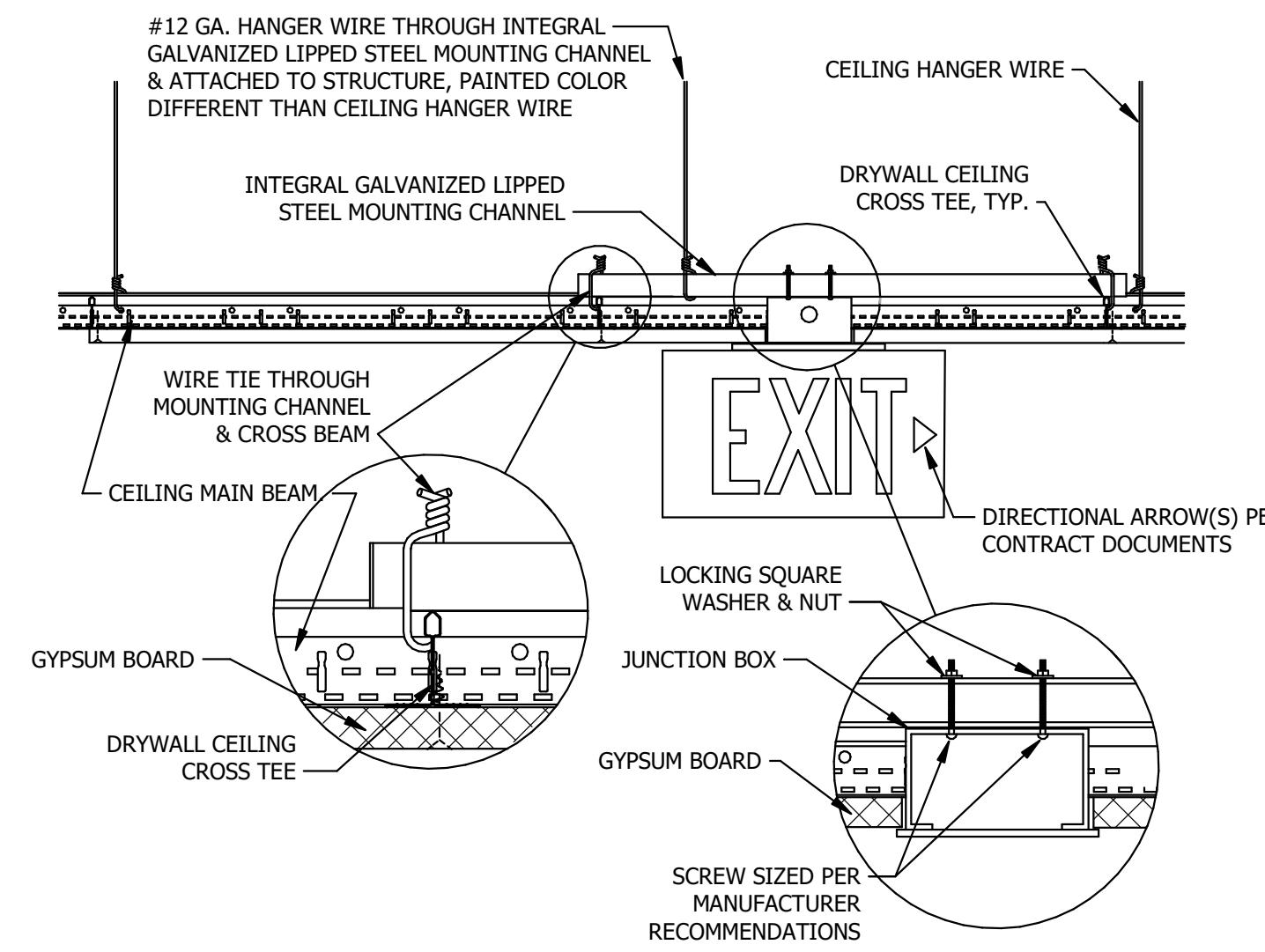
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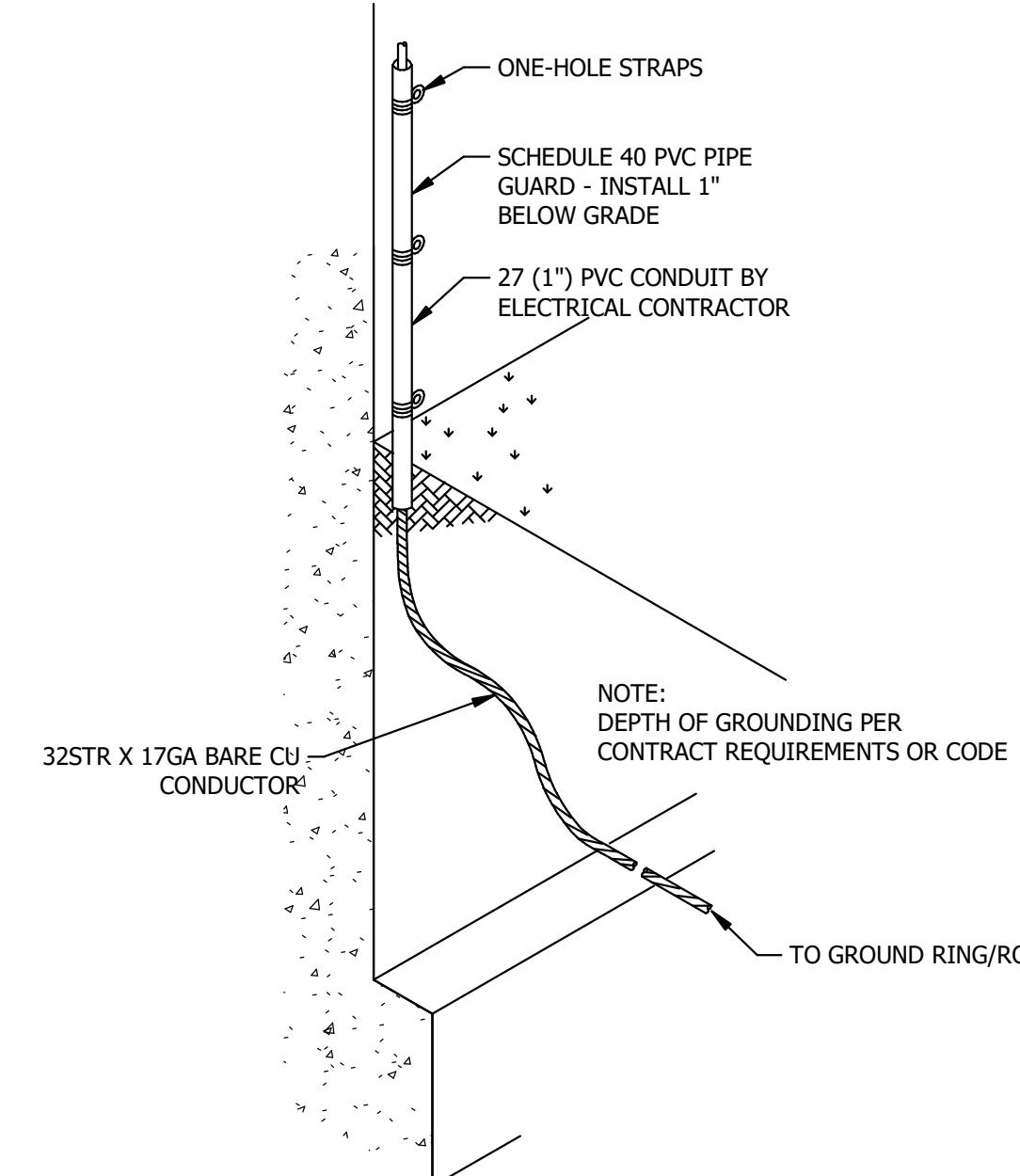
6 TYPICAL GROUNDING BUS BAR DETAIL

NO SCALE



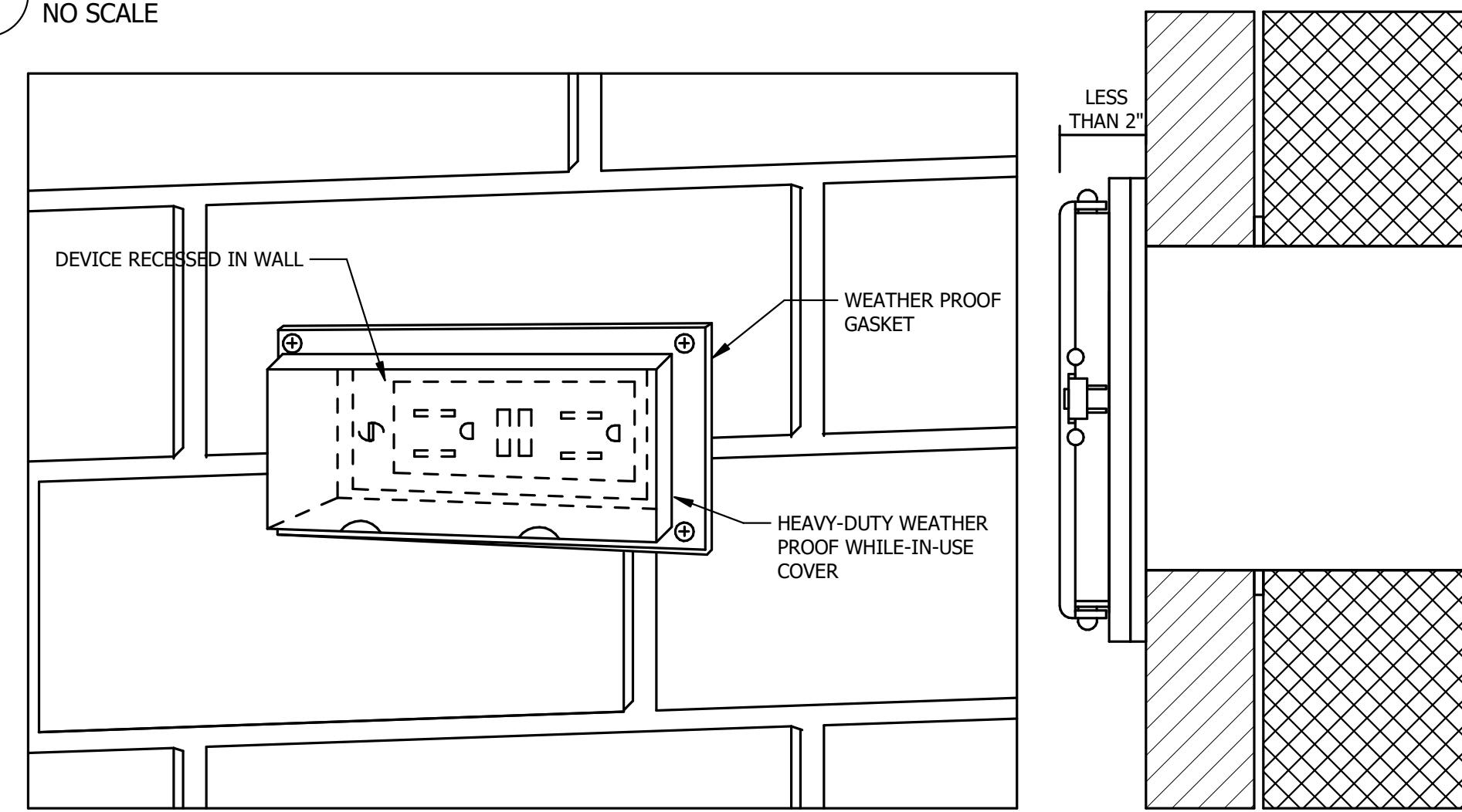
5 EXIT SIGN MOUNTING - GYPOBOARD CEILING

NO SCALE



4 GROUND DETAIL

NO SCALE

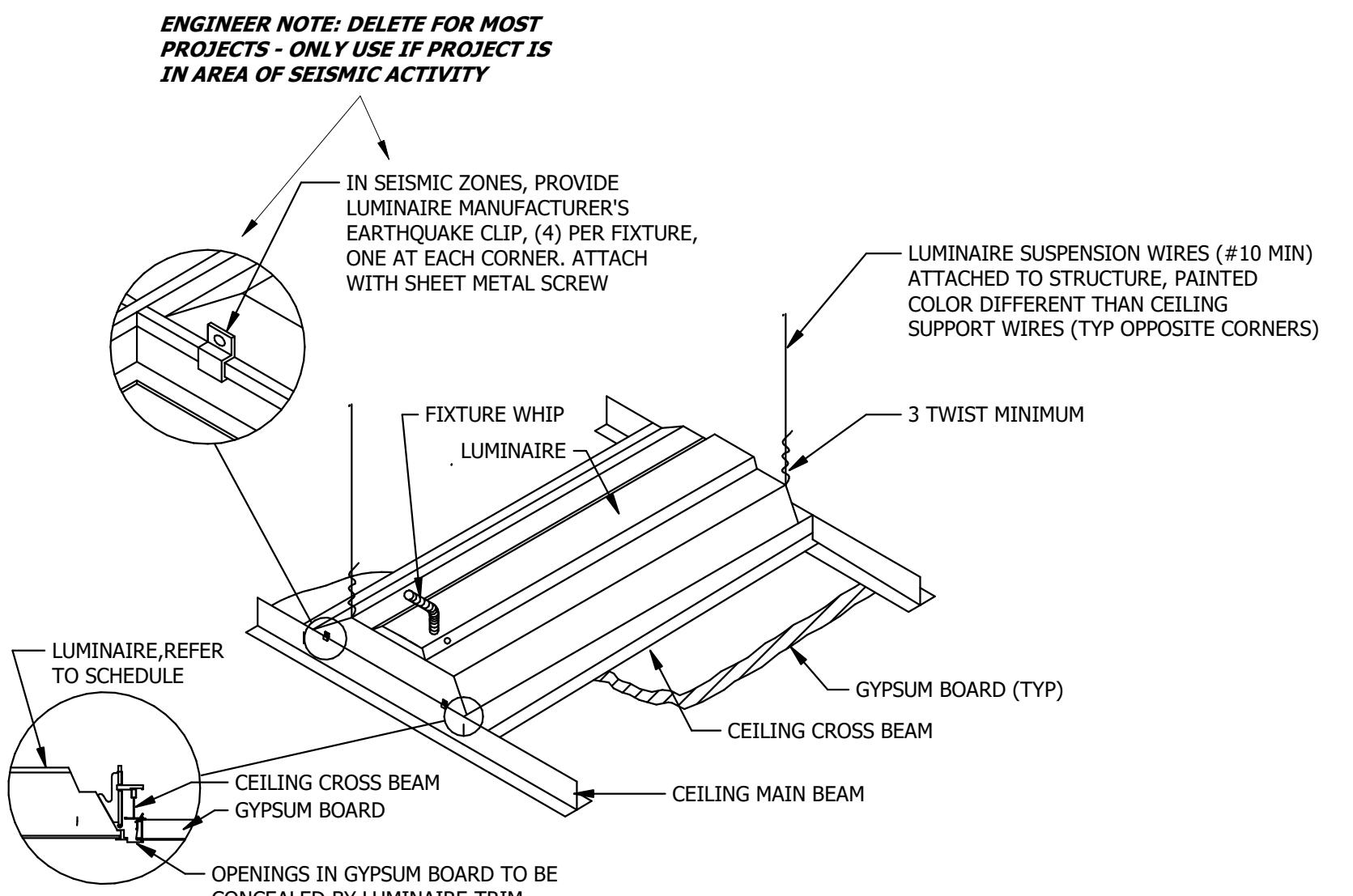


GENERAL NOTES:

- VERIFY WALL TYPE AND FINISH WITH ARCHITECTURAL DOCUMENTS, PROVIDE MANUFACTURER'S RECOMMENDED BOX AND HARDWARE FOR WALL TYPE(S).

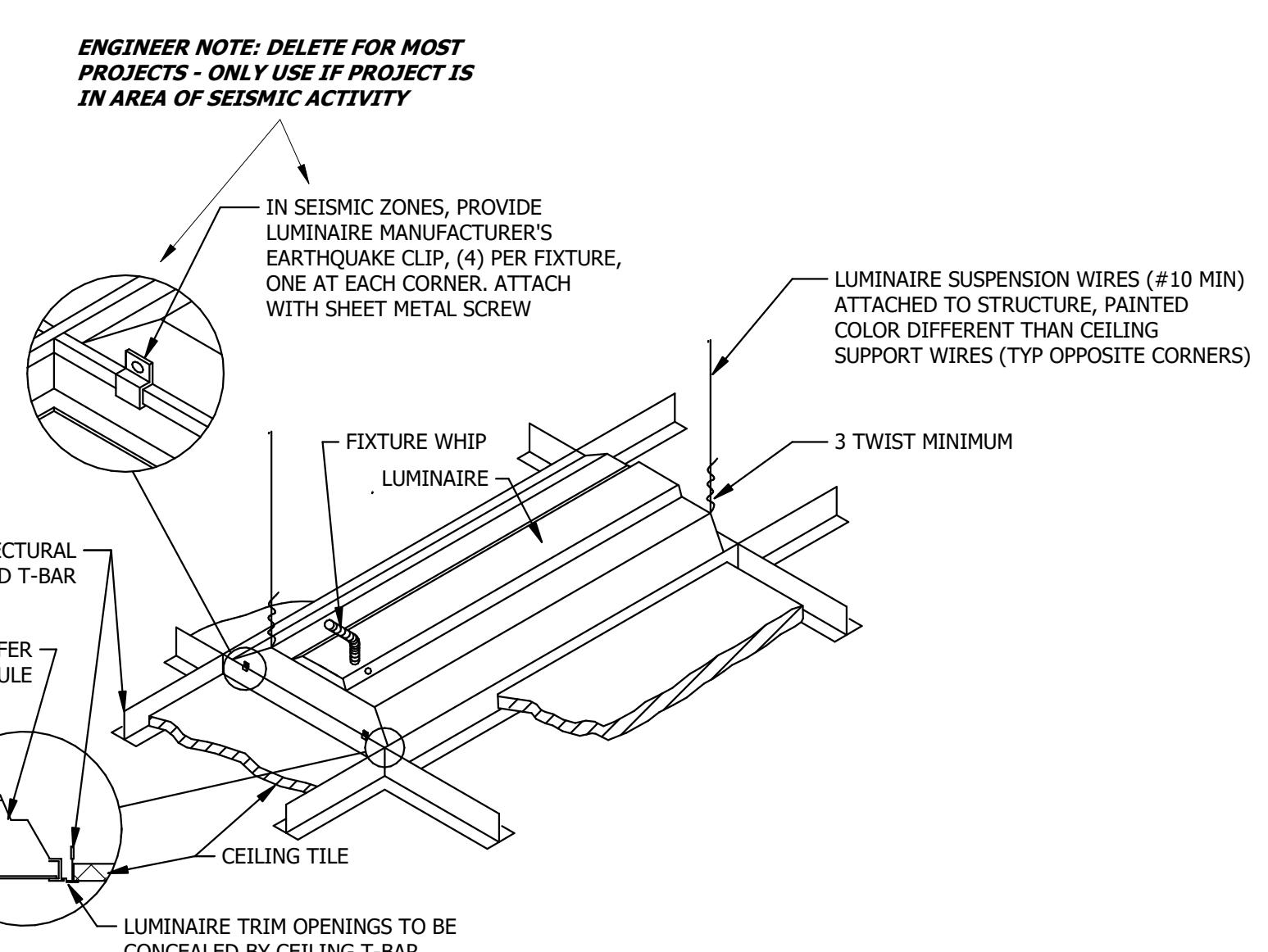
2 OUTDOOR RECESSED OUTLET BOX

NO SCALE



3 LUMINAIRE MOUNTING - GYPOBOARD CEILING

NO SCALE



1 LUMINAIRE MOUNTING - ACT CEILING

NO SCALE

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ELECTRICAL
DETAILS

DRAWING NO.

E701



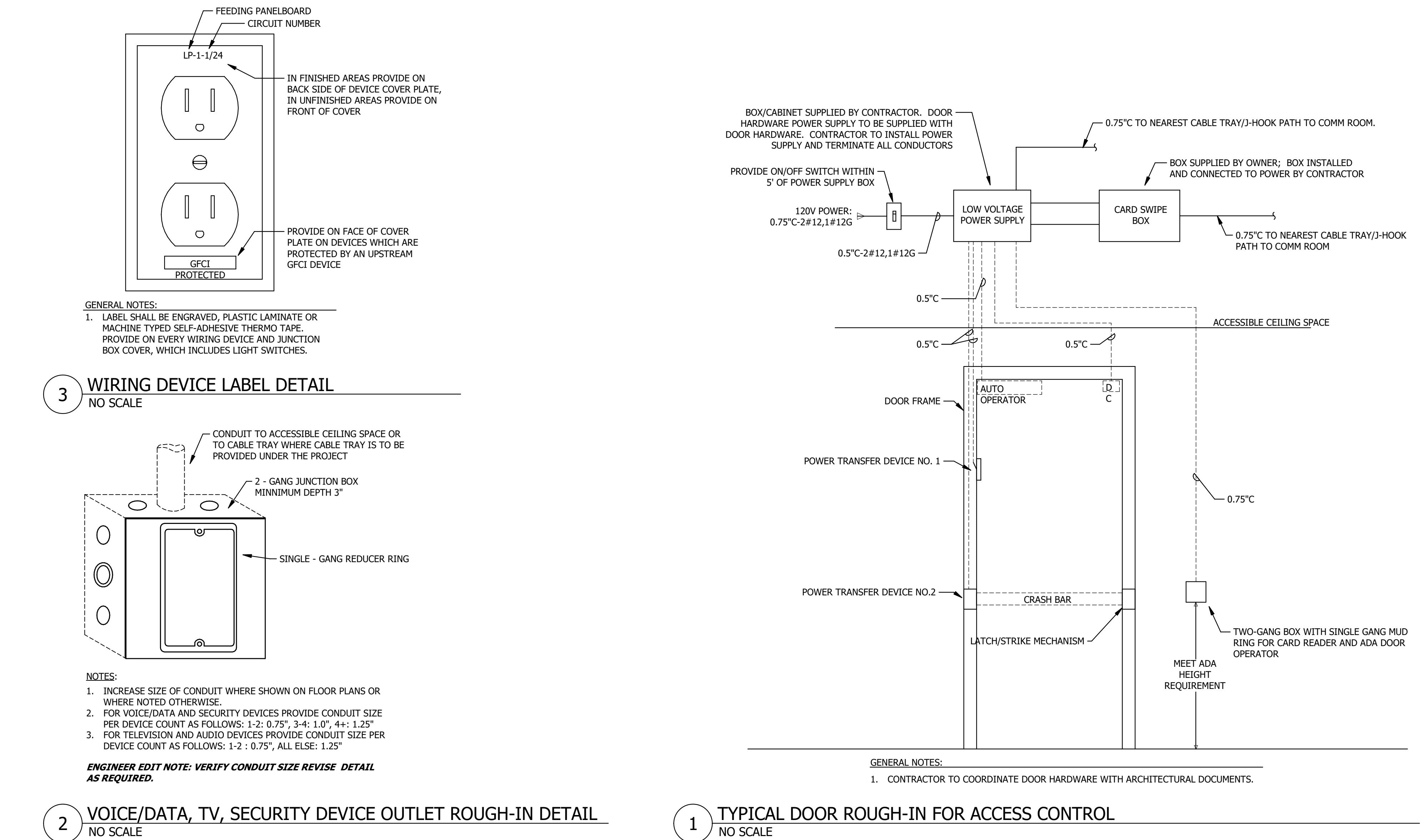
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ELECTRICAL SCHEDULES

DRAWING NO.

E901

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT				
				1	289	1005	540	360	1			*R. RECEIVING SALLYPORT - LOUVERS - GUH-1	2				
				3	R. STAFF	20 A	1					R. STAFF REFRIGERATOR	4				
5	L. SALLYPORT/VAUL/ORDER - EF-1,4	20 A	1						1172	300	1	20 A	L. RESTROOM/STAFF - EF-2,3	6			
7	L. SHOWROOM/LOBBY	20 A	1	561	180				1	20 A	R. ROOF	8					
9	R. VAULT/INVENTORY/CORRIDOR - H-1	20 A	1			1260	360		1	20 A	R. OFFICE	10					
11	R. TELEPHONE BOARD	20 A	1				360	720	1	20 A	R. RESTROOM/EXTERIOR	12					
13	R. SECURITY	20 A	1	540	1440				1	20 A	R. SHOWROOM/LOBBY	14					
15	R. ATM	20 A	1			180	360		1	20 A	L. SIGNAGE	16					
17	R. ORDER COUNTER	20 A	1				720	360	1	20 A	R. ORDER COUNTER	18					
19	EH-1	20 A	1	1500	0				1	20 A	SPARE	20					
21	SPARE	20 A	1			0	0		1	20 A	SPARE	22					
23	SPARE	20 A	1				0	0	1	20 A	SPARE	24					
25	SPARE	20 A	1	0	0				1	20 A	SPARE	26					
27	SPARE	20 A	1			0	0		1	20 A	SPARE	28					
29	SPARE	20 A	1				0	0	1	20 A	SPARE	30					
31				2639	0				1	20 A	SPARE	32					
33	RTU-1	30 A	3		2639	0			1	20 A	SPARE	34					
35						2639	0	1	20 A	SPARE	36						
37				5000	2639				3	30 A	RTU-2	38					
39	WH-1	60 A	3		5000	2639						40					
41						5000	2639					42					
TOTAL CONNECTED LOAD 43040 VA				TOTAL CALCULATED DEMAND 34432 VA				TOTAL CALCULATED AMPS 96 A									
GENERAL NOTES:							KEY NOTES:										
1.							* GFCI RATED BREAKER										
2.							** HACR RATED BREAKER										
3.							*** ISOLATED GROUND CIRCUIT										
4.							L. = LIGHTING										
R. = RECEPTACLE																	

LIGHT FIXTURE SCHEDULE													
Fixture ID	Fixture Type	Mounting Style	Rated Lumen Output	Color Temperature (°K)	Voltage	Input Watts	Fixture Description			Finish Color	Approved Manufacturer	Notes	
A	2X4 FLAT PANEL LED	RECESSED	4,000-5,000 LUMENS, 80CRI MIN	4000K	120 V	34 W	UV RESISTANT ACRYLIC LENS, HOUSING DEPTH LESS THAN 1", OVERALL DEPTH WITH DRIVER LESS THAN 2", EDGE LIT LED, IC RATED			WHITE	LITHONIA CPX SERIES, OR EQUAL ELITE 24FPL-BL SERIES, OR EQUAL		
B	6" LED DOWNLIGHT	B	1500 LUMENS	4000K	120 V	16 W	6" LED RECESSED DOWNLIGHT			WHITE	PORTER PT-CDL2 , OR EQUAL		
C	LED WALL MOUNT VANITY FIXTURE	C	3000 LUMENS	4000K	120 V	30 W	WALL MOUNT RESTROOM VANITY FIXTURE			WHITE	COLUMBIA VWM, OR EQUAL		
D	8 FOOT PENDANT MOUNT LINEAR LED FIXTURE	PENDANT	6000 LUMENS	4000K	120 V	45 W	LINEAR LED CONTINUOUS PENDANT MOUNT FIXTURE			WHITE	LITE CONTROL GL-P-ID, OR EQUAL		
D1	4 FOOT PENDANT MOUNT LINEAR LED FIXTURE	PENDANT	6000 LUMENS	4000K	120 V	20 W	LINEAR LED CONTINUOUS PENDANT MOUNT FIXTURE			WHITE	LITE CONTROL GL-P-ID, OR EQUAL		
EG	LED WALL MOUNT EXTERIOR LIGHT	WALL MOUNT	LED 500 LUMENS	3000K	120 V	55 W	EXTERIOR WALL MOUNT LED AREA LIGHT			DARK BRONZE	LITHONIA AFF SERIES, OR EQUAL		
EX	EXIT SIGN WITH EMERGENCY HEADS	UNIVERSAL	LED			4 W	THERMOPLASTIC IMPACT RESISTANT, SCRATCH RESISTANT, NICKEL-CADMIUM BATTERY, DUAL-HEAD EXIT SIGN, WITH (1) REMOTE HEAD, SELF DIAGNOSTICS.			WHITE HOUSING, RED LETTERS	LITHONIA LHQM SERIES, OR EQUAL ELITE ELX SERIES, OR EQUAL		
F	4' LENSED LED STRIP LIGHT	SURFACE/CEILING	LED 5,000-5,500 LUMENS, 80CRI MIN	4000K	120 V	32 W	COMPACT LINEAR METAL CHANNEL, FROSTED WRAPPED ROUND DIFFUSE LENS.			WHITE	LITHONIA CLX SERIES, OR EQUAL ELITE 4-DEC SERIES, OR EQUAL		
W1	LED WALL MOUNT EXTERIOR LIGHT	WALL MOUNT	LED 8000 LUMENS	3000K	120 V	55 W	EXTERIOR WALL MOUNT LED AREA LIGHT			DARK BRONZE	LITHONIA TWR LED SERIES, OR EQUAL		
W2	LED WALL MOUNT EXTERIOR LIGHT	WALL MOUNT	LED 2000 LUMENS	3000K	120 V	7 W	EXTERIOR WALL MOUNT LED AREA LIGHT			DARK BRONZE	LITHONIA WDGE1 LED SERIES, OR EQUAL		

MOTOR/EQUIPMENT ID	LOCATION	HP	ELECTRIC HC KW	FLA	MCA
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