

-2020 NATIONAL ELECTRICAL CODE (NFPA 70)

GENERAL NOTES

GENERAL ALTERNATING CURRENT, ABOVE COUNTER

ABBREVIATIONS

AMPS INTERRUPTING CAPACITY

ABOVE FINISHED FLOOR

AMERICAN WIRE GAUGE

CONDUIT/RACEWAY ONLY

CURRENT TRANSFORMER

ELECTRICAL CONTRACTOR

ELECTRICAL METALLIC TUBING

FIRE ALARM ANNUNCIATOR

GENERAL CONRACTOR

GALVANIZED RIGID STEEL

HIGH INTENSITY DISCHARGE

THOUSAND CIRCULAR MILLS

FIRE ALARM CONTROL PANEL

GROUND FAULT CIRCUIT INTERRUPTER

NATIONAL ELECTRICAL CODE (NFPA-70)

NATIONAL ELECTRICAL MANUFACTURERS

AMPERE

ALUMINUM

AMPERE

BREAKER

BUILDING

CIRCUIT

COPPER

DIMMER

COOL WHITE

DEDICATED

ELECTRICAL

EQUIPMENT

FLUORESCENT

HORSEPOWER

LOW VOLTAGE

MANUFACTURER

MAIN LUGS ONLY

ASSOCIATION

POINT OF CONNECTION

POLYVINYL CLORIDE

POTENTIAL TRANSFORMER

NOT TO SCALE

ISOLATED GROUND

KILOVOLT AMPERES

EXISTING

GROUND

KILOWATT

LIGHTING

MINIMUM

NEUTRAL

PANEL

POWER

QUANTITY

RECEPTACLE

REFERENCE

ROUGH-IN

RACEWAY ONLY

SPECIFICATIONS

SWITCHBOARD

UNDERGROUND

UNDERWRITERS LABORATORIES

GENERAL REQUIREMENTS

1. DRAWINGS ARE DIAGRAMMATIC. SHOWING THE GENERAL LOCATION. TYPE, LAYOUT, AND

4. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS

5. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A

CONTRACTOR SUBSTITUTIONS & REVISIONS

MANUFACTURER'S PUBLISHED DATA AND/OR SPECIFICATION FOR THAT ITEM ARE CONSIDERED PART OF

COSTS. CONTRACTOR SHALL BE RESPONSIBLE FOR OTHER COSTS ASSOCIATED WITH UNFORESEEN ISSUES

1. PLEASE SUBMIT PROPOSALS FOR SUBSTITUTIONS OR REVISIONS FOR REVIEW AND APPROVAL PRIOR TO

2. FOR EQUIPMENT THAT IS SCHEDULED BY MANUFACTURER'S NAME AND CATALOG DESIGNATIONS, THE

3. ENGINEERING COSTS FOR REVISING MEP PLANS SHALL BE ADDRESSED IN THE COST ANALYSIS OF THE

4. CONTRACTOR TO COORDINATE WITH ENGINEER AND DETERMINE ASSOCIATED DESIGN AND PERMITTING

PRE-CON MEETING NOTES

CONTRACTORS SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE ENGINEER FOR THE

PURPOSE OF REVIEWING THE WORK PRIOR TO ORDERING ANY EQUIPMENT OR PERFORMING ANY

WORK. THE MEETING SHALL BE LOCATED AT THE PROJECT SITE ON A DATE AND TIME TO BE MUTUALLY AGREED. THE MEETING WILL BE A WORKING SESSION. THE MEETING WILL BE FACILITATED

PROPOSED PRODUCTS, REVIEW OF PLANNED MEANS AND METHODS, AND ON-SITE INVESTIGATION OF

PRICE WILL BE DISCUSSED, BUT NO CHANGE ORDERS WILL BE ISSUED UNLESS PROCESSED THOUGH OFFICIAL CHANNELS. IT SHALL BE UNDERSTOOD THAT THE ENGINEER HAS NO AUTHORITY TO

FIELD CONDITIONS RELATIVE TO EXISTING CONDITIONS THAT COULD AFFECT THE WORK. PERSONS ATTENDING THE MEETING SHALL BE KNOWLEDGEABLE OF THE PROJECT AND SHALL BE THE

BY THE ENGINEER AND THE AGENDA WILL INCLUDE A DETAILED REVIEW OF THE PLANS AND SPECIFICATIONS, CROSS CHECK WITH OTHER TRADES FOR COORDINATION ISSUES, REVIEW OF

SPECIFIC PERSONS INTENDED TO CONTINUE WITH THE PROJECT THROUGH TO COMPLETION. IF REQUIRED, REVISED PLANS WILL BE ISSUED THROUGH OFFICIAL CHANNELS. CHANGES IN THE BID

THE FOLLOWING TRADES SHALL BE REPRESENTED FOR THE MINIMUM TIME INDICATED:

ALL SESSIONS

4 HOURS

4 HOURS

4 HOURS

2 HOURS

2. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT.

3. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

UNLESS OTHERWISE NOTED

SWITCHGEAR

WARM WHITE

WEATHERPROOF

TRANSFORMER

IMPEDANCE OR ZONE

EQUIPMENT REQUIRED.

COMPLETE SYSTEM.

SUBSTITUTION PROPOSAL

ISSUE CHANGE ORDERS.

GENERAL CONTRACTOR

PLUMBING/PIPING

ELECTRICAL

SPRINKLER

MECHANICAL SHEET METAL

AND INSTALLATION REQUIREMENTS.

ORDERING MATERIAL OR DOING WORK.

RESULTING FROM SUBSTITUTIONS OR REVISIONS.

ROOM

SHEET

SWITCH

TYPICAL

VOLTS WATTS

WITH

WITHOUT

TRANSFER

EXHAUST FAN

COIL or CONDUIT

AC

AFF

AIC

AMP

AWG

BKR

CKT

CW

DED

ELEC

EQUIP

EXIST

FAA

FACP

GFCI

GND

GRS

HID

KCMIL

KVA

 KW

LTG

MFR

MIN

MLO

NEMA

PNL

POC

PVC

PWR

QTY

REF

RM

SHT

SPEC

SWBD

SWGR

TYP

UG

UON

W/O XFMR

XFR

SW

RECEP'

LV

FLUOR

EMT

BLDG

PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THE GOVERNING ELECTRICAL CODE, LOCAL CODES, ORDINANCES AND REQUIREMENTS OF UTILITY

- PROVIDE ALL WORK AND ITEMS NECESSARY FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY CONDUIT, BOX, CONDUCTOR OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND DETERMINE
- . "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, OR MECHANICAL).

BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.

- REFERENCE ARCHITECTURAL DRAWING FOR EXACT LOCATION OF DEVICES. QUESTIONS CONCERNING THE LOCATION OF DEVICES AND EQUIPMENT SHALL BE DIRECTED TO THE ARCHITECT. FAILURE TO COORDINATE REQUIREMENTS SHALL IN NO WAY RESULT IN ADDITIONAL COMPENSATION BEING PROVIDED TO THE CONTRACTOR.
- WHEREVER THE WORD "PROVIDE" IS USED, IT MEANS, "FURNISH AND INSTALL COMPLETE AND READY FOR USE."
- . COORDINATE LOCATION OF ELECTRICAL WITH OTHER TRADES.

COMPANIES FURNISHING SERVICES TO INSTALLATION.

- B. REFER TO EQUIPMENT DRAWINGS FOR MECHANICAL CHARACTERISTICS (SIZE, LOCATION, ETC.) OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED. COORDINATE INSTALLATION AND LOCATION OF ALL EQUIPMENT WITH MECHANICAL CONTRACTOR. VERIFY ALL FUSE RATINGS, WIRE SIZES AND DISCONNECT SIZES PRIOR TO INSTALLATION.
- <u>MATERIALS AND METHODS</u>

PROVIDE RACEWAY AND WIRING ROUTED CONCEALED WITHIN BUILDING STRUCTURE WHERE POSSIBLE. WHERE RACEWAY CANNOT BE CONCEALED, IT SHALL BE INSTALLED PER PROJECT MANAGER'S DIRECTION. ALL CONDUIT SHALL BE INSTALLED IN NEAT SYMMETRICAL LINES HORIZONTAL OR PERPENDICULAR TO BUILDING COLUMNS AND ROOF LINES. CONDUITS SHALL BE GROUPED ON COMMON SUPPORTS WHEREVER POSSIBLE.

- EXPOSED CONDUIT ROUTING: CONDUITS MAY BE ROUTED EXPOSED IN MECHANICAL AND ELECTRICAL ROOMS ONLY. EXPOSED CONDUITS SHALL BE SECURED A MINIMUM OF 6" ABOVE FLOOR.
- OUTDOOR EXPOSED CONDUIT ROUTING: CONDUITS ROUTED ON ROOF OR EXPOSED TO WEATHER SHALL BE GRC, PVC OR LIQUID-TIGHT FLEX. PROVIDE WATER-TIGHT CONNECTIONS AND FITTINGS.
- CLEARANCES: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET.
- CONNECTIONS: PROVIDE GRS, METALLIC FLEX, OR LIQUIDTITE FLEX CONDUITS FOR CONNECTIONS TO MOTORS OR MOTORIZED EQUIPMENT.
- WIRING: PROVIDE MINIMUM #12 AWG WIRE SIZE. IF CONDUIT IS TO BE USED MINIMUM IS TO BE 1/2". FLEXIBLE CONDUIT AND FLEXIBLE CABLE IS PERMISSIBLE THROUGHOUT THE BUILDING.

7. WIRING: PROVIDE MINIMUM #10 AWG COPPER CONDUCTOR SIZE IN 120V BRANCH CIRCUIT RUNS OVER 75' IN LENGTH

SITE ELECTRICAL

- 1. TRENCHING: COORDINATE ALL TRENCHING WORK WITH OTHER UTILITY LOCATIONS AND DRAINAGE TRENCHES.
- 2. UNDERGROUND CONDUITS: PROVIDE PVC, SCHEDULE 40, 3/4" MINIMUM. PROVIDE GRC CONDUIT TRANSITION ELBOW WHEN TURNING UP TO ABOVE GRADE.
- CONDITIONS WHICH MAY AFFECT BID. ANY ITEMS NOT FULLY UNDERSTOOD SHALL 3. DIRECT—BURIED CONDUITS: CONDUIT FOR BRANCH CIRCUITS OUTSIDE BUILDINGS NOT BENEATH DRIVEWAYS OR PARKING AREAS SHALL BE DIRECTLY BURIED WITHOUT CONCRETE ENCASEMENT. THE DEPTH TO THE TOP OF BURIED CONDUITS SHALL BE 36". PROVIDE MARKER TAPE 12" BELOW GRADE.
 - 4. BELOW SLAB: CONDUIT ROUTED BELOW ON-GRADE FLOOR SLABS SHALL BE INSTALLED PRIOR TO FLOOR SLAB POUR. ROUTE CONDUITS BELOW SLAB AS STRAIGHT AS POSSIBLE TO MINIMIZE BENDS.
 - 5. ALL CONDUITS PENETRATING THE BUILDING ENVELOPE BELOW GRADE SHALL FOLLOW WATERPROOFING REQUIREMENTS IN THE ARCHITECTURAL DRAWINGS.

NEUTRALS

- 1. AT CONTRACTORS OPTION, NEUTRALS MAY BE SHARED ON COMBINED HOMERUNS UNLESS THE CIRCUIT HAS A GFCI BREAKER, AN ISOLATED GROUND, OR IS FROM A PANEL WITH TVSS PROTECTION. ANY NEUTRAL DOWNSTREAM FROM A DIMMER SHALL BE DEDICATED TO THE DIMMED LOAD.
- 2. NEUTRAL WIRES SHOWN FOR TWO AND THREE POLE MECHANICAL AND KITCHEN EQUIPMENT MAY BE OMITTED UPON VERIFICATION THAT THEY ARE NOT REQUIRED EITHER FOR OPERATION OR CONTROL CIRCUITS PER MANUFACTURER'S SPECIFICATIONS.

LIGHTING

1. PROVIDE LIGHT FIXTURES WITH PROPER FITTING FLANGES, MOUNTING SUPPORTS, AND ACCESSORY ITEMS, UL LISTED FOR CONDITIONS OF USE.

LOW VOLTAGE LIGHTING

- 1. PROVIDE LOW VOLTAGE TRANSFORMERS IN NEARBY ACCESSIBLE CEILING SPACE.
- 2. PROVIDE LOW VOLTAGE CONDUCTORS SIZED PER MANUFACTURER'S GUIDELINES TO MINIMIZE VOLTAGE DROP.

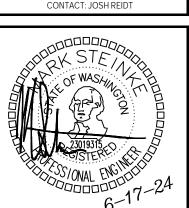
LIGHTING CONTROL

- THE MAXIMUM LIGHTING POWER THAT MAY BE CONTROLLED FROM A SINGLE SWITCH OR AUTOMATIC CONTROL SHALL NOT EXCEED THAT WHICH IS PROVIDED BY A TWENTY AMPERE CIRCUIT LOADED TO NOT MORE THAN EIGHTY PERCENT. A MASTER CONTROL MAY BE INSTALLED PROVIDED THE INDIVIDUAL SWITCHES RETAIN THEIR CAPABILITY TO FUNCTION INDEPENDENTLY.
- 2. EMERGENCY FIXTURES: EMERGENCY BATTERY/CHARGER SHALL BE CONNECTED TO AN UNSWITCHED LEG OF THE DESIGNATED CIRCUIT.

DRAWING INDEX

			IN	CLUD	ED	IN SE	ΞΤ
DWC	DESCRIPTION	CHECK SET 3/09/24	PERMIT SET 03/12/2024	PERMIT RESUBMITTAL SET 06/17/2024			
DWG	DESCRIPTION						
E0.00	LEGEND, GENERAL NOTES, DRAWING INDEX	X	X	X			
E0.10	SITE PLAN — POWER		X	X			
E1.00	LIGHTING PLAN — BASEMENT	X	X	X			
E1.01	LIGHTING PLAN — LEVEL 1	X	Χ	Х			
E1.02	LIGHTING PLAN — LEVEL 2	X	Χ	Χ			
E1.50	LIGHTING NOTES AND LUMINAIRE SCHEDULE	X	X	X			
E1.60	EGRESS PHOTOMETRIC PLAN — BASEMENT			Χ			
E1.61	EGRESS PHOTOMETRIC PLAN — LEVEL 1			X			
E1.62	EGRESS PHOTOMETRIC PLAN — LEVEL 2			X			
E2.00	POWER PLAN — BASEMENT	X	X	X			
E2.01	POWER PLAN — LEVEL 1	Х	Χ	Χ			
E2.02	POWER PLAN — LEVEL 2	X	Χ	Χ			
E2.03	POWER PLAN - ROOF	X	X	X			
E5.00	ONE-LINE DIAGRAM	X	X	X			
E5.01	PANEL SCHEDULES	X	Χ	Χ			
E6.00	LIGHTING COMPLIANCE FORMS		Χ	X			





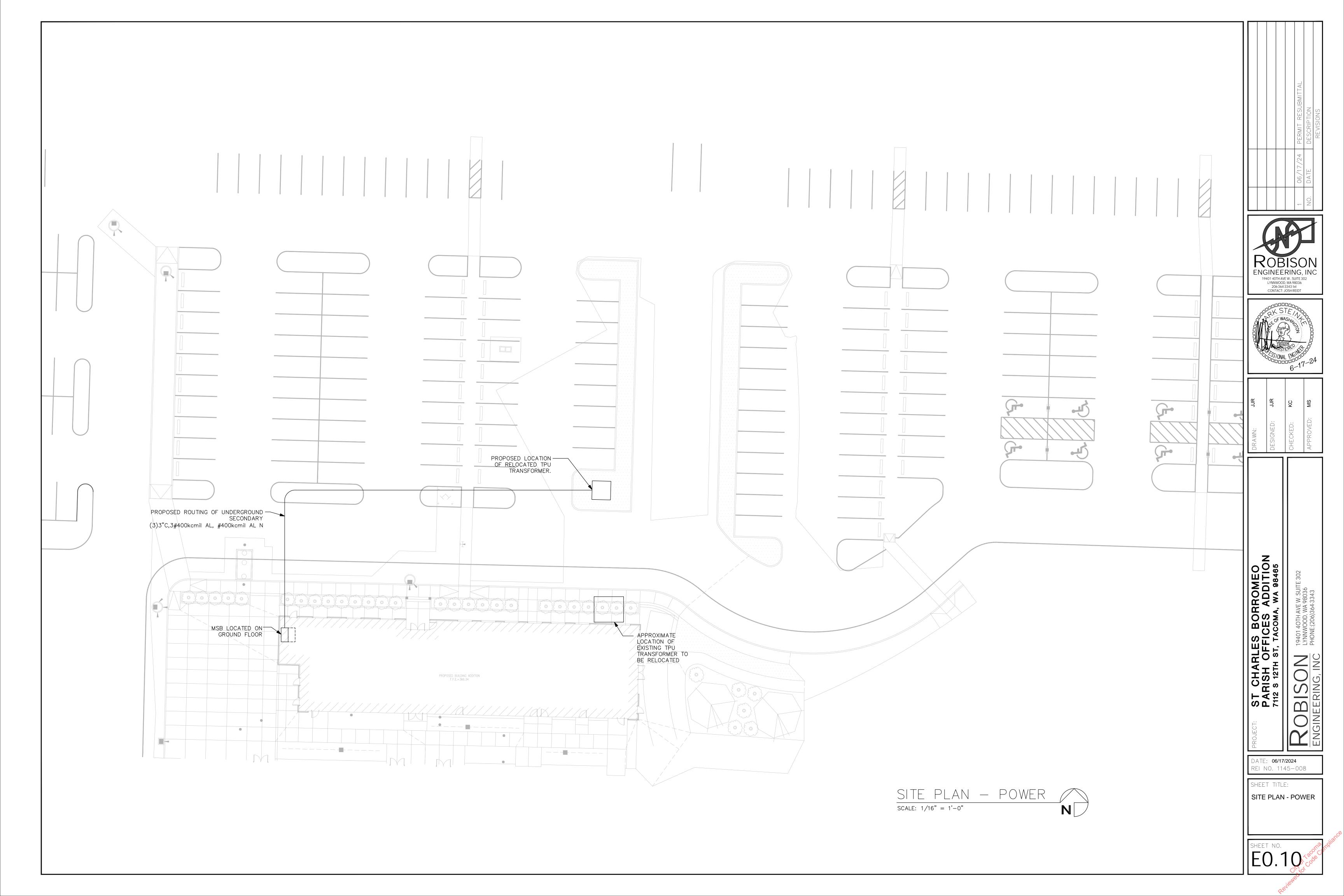
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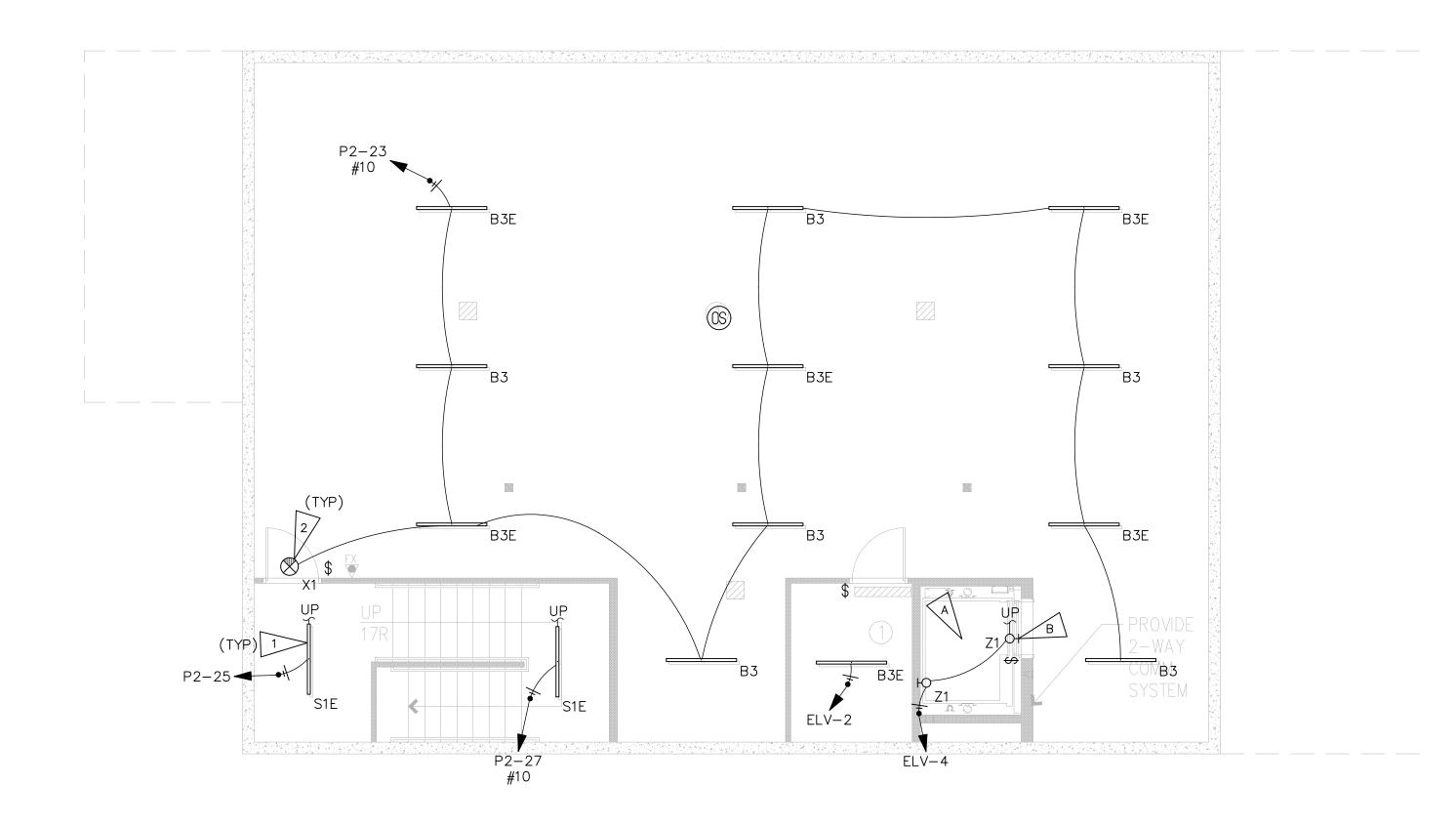
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)ATE: **06/17/2024** REI NO. 1145-008

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SHEET TITLE: LEGEND, GENERAL NOTES, DRAWING INDEX

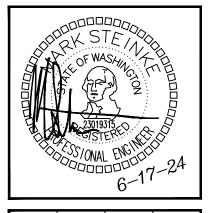




GENERAL NOTES	#>SHEET NOTES
 EMERGENCY EGRESS LIGHTING SHALL BE SUPPLIED BY EMERGENCY LUMINAIRES WITH 90 MINUTE BATTERY BACKUP. SEE SHEET E1.50 FOR LUMINAIRE SCHEDULE AND LIGHTING NOTES. 	A. MOUNT PIT LIGHT SWITCH ADJACENT TO LADDER. USE ILLUMINATED HANDLE TYPE. DO NOT COMBINE CIRCUITS SERVING ELEVATOR, ELEVATOR PIT, OR ELEVATOR HOISTWAY WITH HOMERUNS FROM OTHER ROOMS/AREAS. (NEC 620.23-24). B. CIRCUIT ELEVATOR SHAFT VERTICALLY.
#>FLAG NOTES	
1. CIRCUIT STAIRS VERTICALLY. LUMINAIRE(S) IN STAIRWELL SHALL HAVE INTEGRAL OCCUPANCY SENSOR WHICH REDUCES LIGHTING POWER OF FIXTURE(S) BY 50% WHEN SPACE IS VACANT FOR 15 MINUTES. (TYP)	
2. EXIT SIGNS: PROVIDE UNSWITCHED HOT.	

LIGHTING PLAN — BASEMENT SCALE: 3/16" = 1'-0"

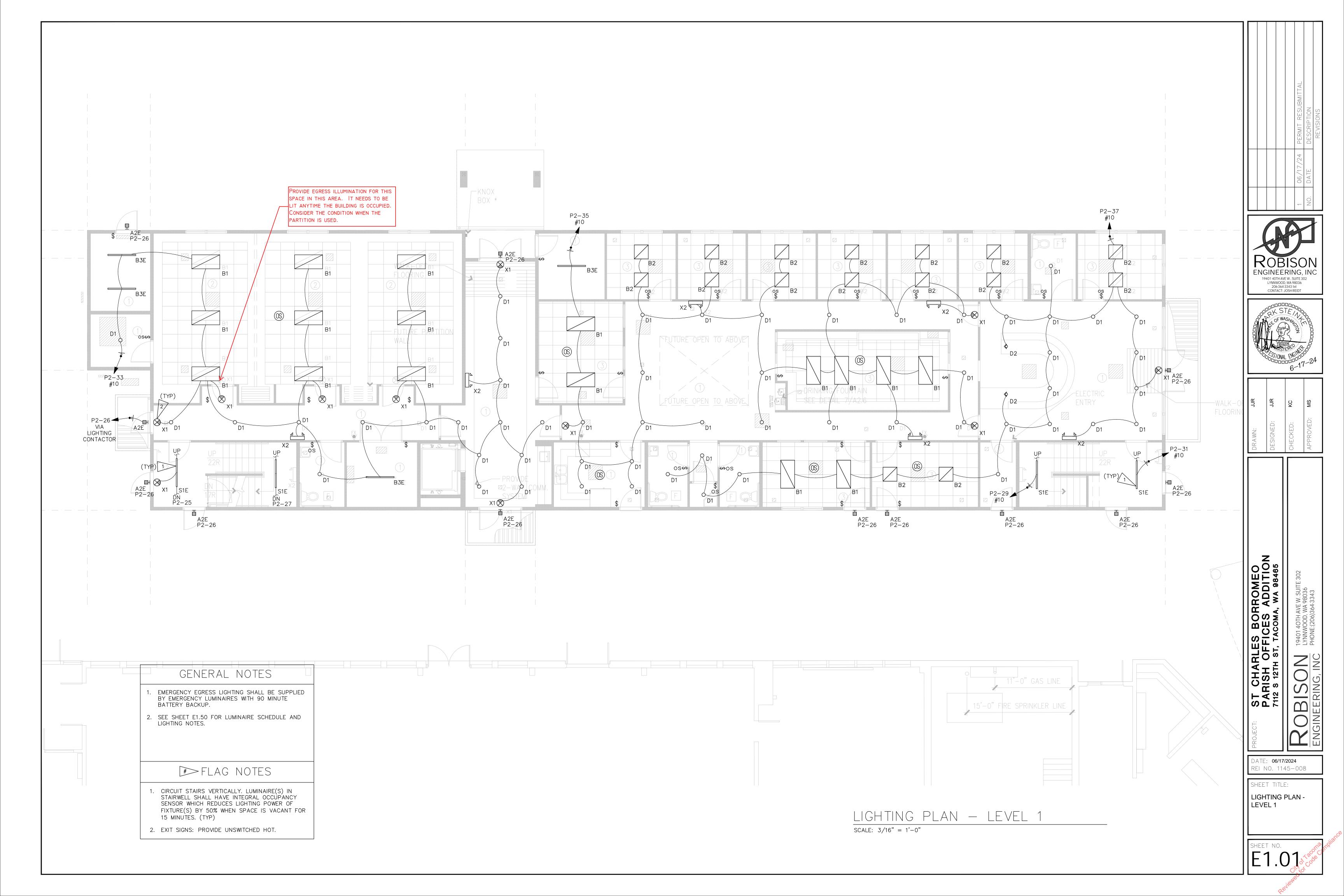


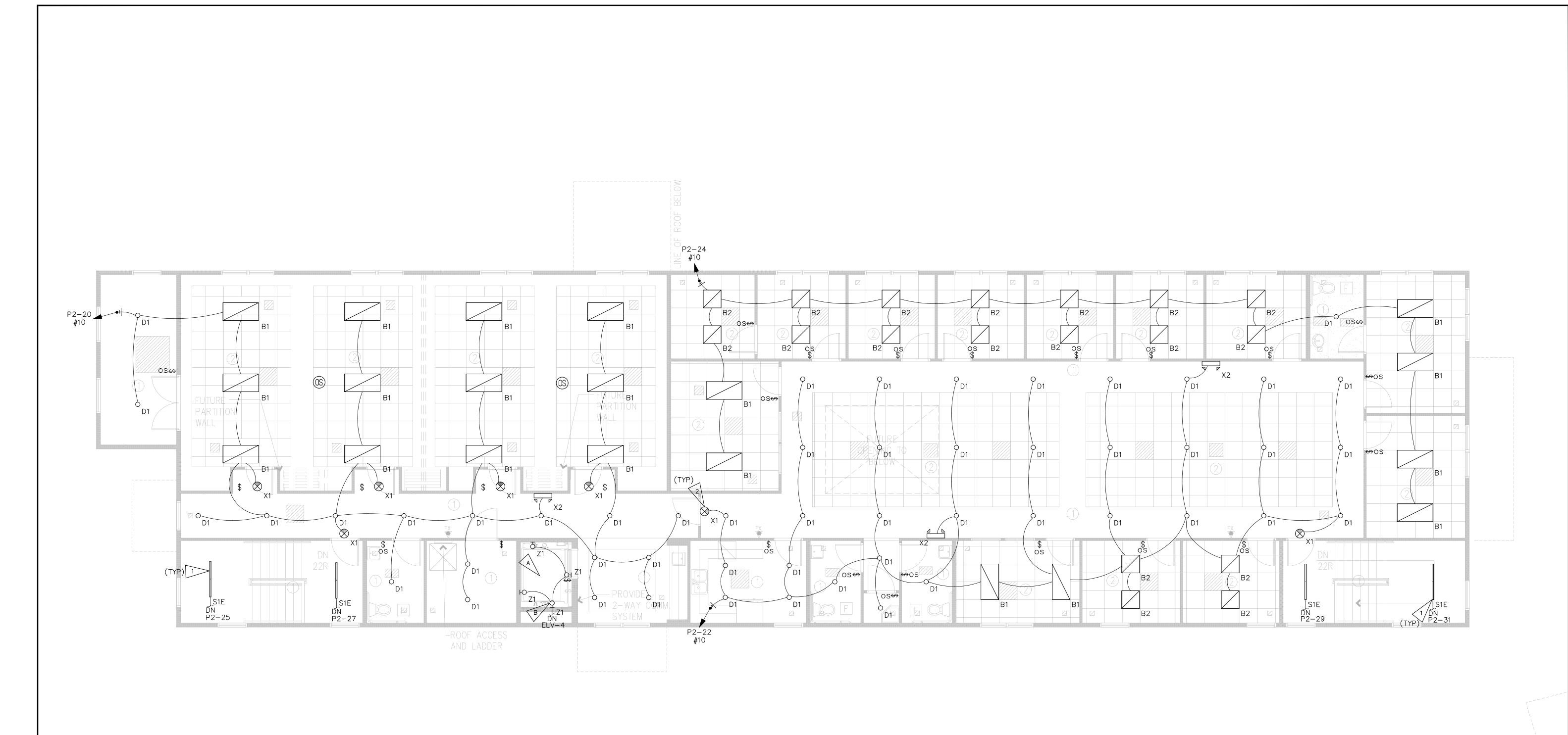


DATE: **06/17/2024** REI NO. 1145-008

LIGHTING PLAN -BASEMENT

E1.00





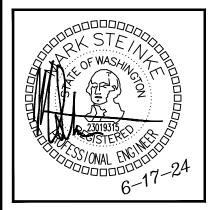
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2. EXIT SIGNS: PROVIDE UNSWITCHED HOT.

LIGHTING PLAN - LEVEL 2

SCALE: 3/16" = 1'-0"





ST CHARLES BORROMEO
PARISH OFFICES ADDITION
7112 S 12TH ST, TACOMA, WA 98465

DATE: **06/17/2024** REI NO. 1145-008

SHEET TITLE: LIGHTING PLAN -LEVEL 2

	LIGHTING CONTROLS LEGEND
⇔ ⇔° ⇔×	TOGGLE SWITCH FOR MANUAL ON/OFF LIGHTING CONTROL (WSEC C405.2.3). SUBSCRIPT INDICATES WHICH FIXTURES ARE TO BE CONTROLLED BY WHICH SWITCH. SUBSCRIPT 'k' INDICATES TAMPER RESISTANT KEYED SWITCH FOR USE BY AUTHORIZED PERSONNEL ONLY.
	DIMMER SWITCH FOR MANUAL MULTI-LEVEL LIGHTING CONTROL. SWITCH SHALL ALSO HAVE MANUAL ON/OFF FUNCTIONALITY. SUBSCRIPT INDICATES WHICH FIXTURES ARE TO BE CONTROLLED BY WHICH DIMMER. (C405.2.3)
vs vs os os \$	SWITCHES LABELED 'os' OR 'vs' SHALL TURN OFF ALL CONNECTED LUMINAIRES WITHIN 20 MINUTES OF SPACE BEING VACANT. (C405.2.1.1)
TR ax	WALLBOX DIMMER OR SWITCH FOR MANUAL LOCAL LIGHTING CONTROL (C405.2.3). WALLBOXES SHALL ALSO HAVE MANUAL ON/OFF FUNCTIONALITY OF ALL CONNECTED LUMINAIRES. SUBSCRIPT INDICATES WHICH FIXTURES ARE TO BE CONTROLLED BY ZONE ACCORDING TO LIGHTING CONTROL SCHEDULE; 'x' INDICATES MULTIPLE ZONE CONTROL. SUBSCRIPT 'TR' INDICATES TAMPER RESISTANT CONTROLS TO BE ACCESSED BY AUTHORIZED PERSONNEL ONLY.
CS-01	CONTROL STATION FOR MANUAL LOCAL LIGHTING CONTROL (C405.2.3). WALLBOXES SHALL HAVE MANUAL ON/OFF AND DIMMING FUNCTIONALITY OF ALL CONNECTED LUMINAIRES. SUBSCRIPT CORRESPONDS TO 'LIGHTING CONTROLS' TABLE.
(OS)	OCCUPANCY SENSOR SHALL AUTOMATICALLY TURN OFF ALL CONNECTED LUMINAIRES WITHIN 20 MINUTES OF SPACE BEING VACANT. (C404.2.1.1)
ax (PS)	MUTLIZONE PHOTOSENSOR FOR DAYLIGHT ZONE CONTROL SHALL AUTOMATICALLY ADJUST THE LIGHT OUTPUT OF ALL CONNECTED LUMINAIRES BASED ON THE DAYLIGHT LEVEL IN THE PRIMARY AND SECONDARY ZONES (C405.2.4). SUBSCRIPT INDICATES WHICH FIXTURES ARE TO BE CONTROLLED BY ZONE ACCORDING TO LIGHTING CONTROL SCHEDULE; 'x' INDICATES MULTIPLE ZONE CONTROL.

CALLOUT	SYMBOL	MOUNTING	DESCRIPTION	MODEL	VOLTAGE	TYPE	CRI / CCT	LAMPING	WATTAGE
A2E	H⊞	SURFACE	EXTERIOR WALL SCONCE — INTEGRAL PHOTOCONTROL — EMERGENCY BATTERY BACKUP	GARDCO: 121-16L-200-WW-G4-2-EBPC-UNV-PCB	120	0-10V DIMMING	80 / 3000K	(1) 12W LED	12
B1		RECESSED	2X4 TROFFER	METALUX: 24GR LD5 48 F1 UNV L835 CD1 U	120	0-10V DIMMING	80 / 3500K	(1) 38W LED	38
B2		RECESSED	2X2 TROFFER	METALUX: 22GR LD5 32 F1 UNV L835 CD1 U	120	0-10V DIMMING	80 / 3500K	(1) 30W LED	30
В3		SURFACE	4' NARROW WRAP - BOH	SIGNIFY - DAY-BRITE: FSW 4 40L 830 UNV	120	0-10V DIMMING	80 / 3000K	(1) 31W LED	31
ВЗЕ		SURFACE	4' NARROW WRAP - BOH - EMERGENCY BATTERY BACKUP	SIGNIFY - DAY-BRITE: FSW 4 40L 830 UNV EMLED	120	0-10V DIMMING	80 / 3000K	(1) 31W LED	31
D1	0	CEILING	4" DOWNLIGHT	WAC: R4FRDT-930-[FINISH]	120	0-10V DIMMING		(1) 13W LED 3000K	13
D2	>	CEILING	4.5" WALLWASH	WAC: R4RWT-A830-907-[FINISH]	120	0-10V DIMMING		(1) 15W LED 3000K	15
S1E		SURFACE	4' STAIRWELL / SERVICE CORRIDOR STRIP - INTEGRAL OCCUPANCY SENSOR - EMERGENCY BATTERY BACKUP	HE WILLIAMS: SLF 4 L26 830 HIA EM/10W (L37) OCCWS FSP-L2-120 SD50-120	120	BI-LEVEL MOTION	80 / 3000K	(1) 20W LED	20
X1	⊗	SURFACE	EXIT SIGN — SINGLE FACE — CIRCUIT TO NEAREST LIGHTING CIRCUIT	SURELITES: CX61 (OR EQUAL) WITH BATTERY BACKUP	MULTIPLE	ЕМ	EM	(1) 5W LED	5
X2		SURFACE	EMERGENCY LIGHT - EMERGENCY BATTERY BACKUP	LITHONIA: ELM2LF SERIES (OR EQUAL)	MULTIPLE	ЕМ	NA / NA	(1) 5W EM	5
Z1	Ю	SURFACE	ELEVATOR PIT/OVERHEAD MACHINE JELLY JAR	SPECTRUM LIGHTING: WJ1GV27L35KDS10XFJ1 WLKA	120	0-10V DIMMING	80 / 3500K	(1) 18W LED	18

CONTRACTOR TO FURNISH AND INSTALL ALL FIXTURES.

LUMINAIRE SCHEDULE IS BOD ONLY. CONTRACTOR TO SUBMIT FIXTURE MODEL OR EQUIVALENT. CONTRACTOR TO COORDINATE FIXTURE FINISHES WITH ARCHITECT/OWNER. FIXTURE CATALOG NUMBERS DO NOT NECESSARILY DENOTE SPECIFIC MOUNTING ACCESSORIES. CONTRACTOR TO PROVIDE ALL NECESSARY ACCESSORIES TO SUCCESSFULLY COMPLETE THE INSTALLATION.

GENERAL LIGHTING NOTES

- LIGHTING CONTROLS SHALL BE INSTALLED WHICH MEET ALL REQUIREMENTS OF LOCAL ENERGY CODES.
- 2. EMERGENCY LIGHT FIXTURES: IN ADDITION TO SWITCH-LEG, PROVIDE UNSWITCHED HOT TO SERVE INTERNAL BATTERY AND CHARGER.
- LOCATIONS OF OCCUPANCY SENSORS, PHOTO SENSORS, DIMMERS, AND SWITCHES ARE DIAGRAMMATIC. CONTRACTOR TO COORDINATE QUANTITIES AND OPTIMAL LOCATIONS WITH LIGHTING CONTROL MANUFACTURER AND ARCH/OWNER.
- . AUTOMATIC LIGHTING SHUT—OFF CONTROLS SHALL BE PROVIDED BY LOCAL OCCUPANCY SENSORS UNLESS OTHERWISE NOTED. PUBLIC SPACES ARE ACTIVE 24/7 AND THEREFORE EXEMPT FROM AUTOMATIC LIGHTING SHUT-OFF REQUIREMENTS FOR SECURITY. (WSEC C405.2)
- DAYLIGHT ZONES ARE SHOWN ON PLANS AS DEFINED BY WASHINGTON STATE ENERGY CODE (WSEC) C405.2.4.2. SIDELIGHT DAYLIGHT ZONES ARE REFERRED TO AS 'PRIMARY' AND 'SECONDARY' ON PLANS AND DENOTED BY DASHED LINES.
- . FOR CUSTOM FF&E FIXTURES, IT IS THE MANUFACTURER'S RESPONSIBILITY TO FURNISH PRODUCTS WHICH ARE COMPLIANT WITH ALL REQUIREMENTS OF LOCAL ENERGY CODES, AS WELL AS MATCH THE ELECTRICAL SPECIFICATIONS PROVIDED IN THE LUMINAIRE SCHEDULES. PROVIDE SUBMITTAL SHOP DRAWINGS WITHIN 30 DAYS OF RECEIVING FIXTURE ORDER. SUBMITTALS SHALL CLEARLY INDICATE LAMPING AND MAXIMUM WATTAGE RATING OF LAMP SOCKETS. NON-COMPLIANT FIXTURES REJECTED BY ELECTRICAL INSPECTOR SHALL BE RETURNED TO THE MANUFACTURER FOR REWORKING AND/OR RE-LABELING.
- 7. ALL FIXTURES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- 8. CONTRACTOR SHALL BE RESPONSIBLE TO ORDER ALL NECESSARY HARDWARE, ELECTRICAL CABLE. TIMERS. TRANSFORMERS, ETC., AS REQUIRED FOR COMPLETION OF INSTALLATION OF A FULLY FUNCTIONING SYSTEM.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPPING ALL FIXTURES WITH THE EXACT LAMPS SPECIFIED IN THE FIXTURE SCHEDULE.
- 10. WHERE FIXTURES REQUIRE REMOTE TRANSFORMERS OR BALLASTS, THE CONTRACTOR SHALL DETERMINE LOCATIONS AS REQUIRED FOR EVEN LOAD DISTRIBUTION, SERVICE ACCESS, AND VENTILATION.
- 11. THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL ENGINEER FOR EXACT LOCATIONS OF TIMERS AND/OR PHOTO CELLS, IF ANY.
- 12. WHERE APPLICABLE, THE CONTRACTOR SHALL AIM AND ADJUST LIGHTING FIXTURES AS DIRECTED BY THE LIGHTING DESIGNER UPON COMPLETION OF THE INSTALLATION.

SPECIAL NOTE TO THE CONTRACTOR:

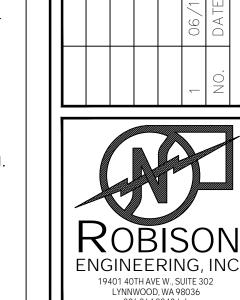
FIXTURE SUBMITTALS THAT DO NOT INCLUDE LAMP SPECIFICATIONS WILL BE CONSIDERED INCOMPLETE AND WILL NOT BE REVIEWED.

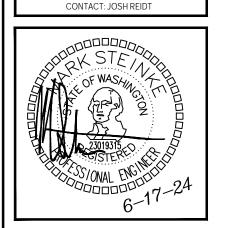
LIGHTING CONTROL SYSTEM REQUIREMENTS

- 1. CONTRACTOR TO PROVIDE A FULLY OPERATIONAL LIGHTING CONTROL SYSTEM.
- . CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF DIMMING AND CONTROL MODULES WITH FIXTURE TYPES PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH A LIGHTING CONTROLS VENDOR TO OBTAIN LIGHTING CONTROL SYSTEM PACKAGE COMPLETE WITH DEVICES, WIRING DIAGRAMS, ANNOTATED PLANS INDICATING WHICH DEVICE TO BE USED IN EACH LOCATION, CONNECTION REQUIREMENTS, SET UP INSTRUCTIONS, COMMISSIONING AND CHECK-OUT FOLLOWING COMPLETION. PROVIDE ALL LOW VOLTAGE WIRING AS REQUIRED FOR CONTROL DEVICE INTERCONNECTIONS.
- INSTALLER QUALIFICATIONS: TECHNICIAN INSTALLING AND WIRING THE LIGHTING CONTROL SYSTEM SHALL HAVE INSTALLED THIS SAME SYSTEM AT LEAST ONCE PREVIOUSLY. TECHNICIAN SHALL HAVE RECEIVED TRAINING BY FACTORY REPRESENTATIVE ON THE SYSTEM BEING INSTALLED.
- 5. PROVIDE LIGHTING CONTROL SYSTEM TO PERFORM THE FUNCTIONS DESCRIBED BELOW:
- 5.1. LIGHTING CONTROL SCHEDULE: PROVIDE SEPARATE SWITCHING AND DIMMING CONTROL FOR LIGHTING ZONES AS INDICATED.
- 5.2. AUTOMATIC LIGHTING CONTROLS:
- 5.2.1. UNLESS OTHERWISE NOTED ON PLANS, OCCUPANCY SENSORS SHALL AUTOMATICALLY TURN OFF ALL CONNECTED LIGHTING WITHIN 20 MINUTES OF SPACE BEING UNOCCUPIED. OCCUPANCY SENSORS SHALL EITHER BE MANUAL ON OR SHALL BE CONTROLLED TO AUTOMATICALLY TURN THE LIGHTING ON TO NOT MORE THAN 50 PERCENT POWER EXCEPT WHERE MANUAL ON WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS. (C405.2.1.1)
- 5.2.2. MULTI-ZONE PHOTO-SENSORS SHALL PROVIDE SEPARATE CONTROL FOR LÚMINAIRES IN EACH TYPE OF DAYLIGHT ZONE. (C405.2.4.1)
- 5.2.3. EXTERIOR LIGHTING CONTROLS SHALL AUTOMATICALLY TURN OFF ALL EXTERIOR LIGHTING AS A FUNCTION OF AVAILABLE DAYLIGHT. BUILDING FACADE AND LANDSCAPE LIGHTING SHALL HAVE CONTROLS THAT AUTOMATICALLY SHUT OFF THE LIGHTING FOR A MINIMUM OF 6 HOURS PER NIGHT OR NOT LATER THAN ONE HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN ONE HOUR BEFORE BUSINESS OPENING, WHICHEVER IS LESS. OTHER LIGHTING SHALL HAVE CONTROLS CONFIGURED TO AUTOMATICALLY REDUCE THE CONNECTED LIGHTING POWER BY AT LEAST 30 PERCENT FROM NO LATER THAN 12 MIDNIGHT TO 6 AM OR FROM ON HOUR AFTER BUSINESS CLOSING TO ONE HOUR BEFORE BUSINESS OPENING OR DURING ANY PERIOD WHEN NO ACTIVITY HAS BEEN DETECTED FOR A TIME OF NO LONGER THAN 15 MINUTES. (C405.2.6)
- . MEANS OF EGRESS ILLUMINATION: AT ANY TIME THE BUILDING IS OCCUPIED, THE MEANS OF EGRESS SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1 FOOTCANDLE AT FLOOR LEVEL. (IBC 1008.2.1)
- DURING EMERGENCY CONDITIONS EMERGENCY LIGHTING CIRCUITS SHALL BYPASS ALL LIGHTING CONTROLS IN ORDER TO ENERGIZE ALL CONNECTED LUMINAIRES AT FULL CAPACITY. PROVIDE UL924 RELAYS AS REQUIRED TO BYPASS AREA CONTROLS.
- 7.1. EMERGENCY PATHWAY EGRESS LIGHTING: ILLUMINATION PROVIDED ALONG THE EGRESS PATH AT FLOOR LEVEL SHALL AVERAGE AT LEAST 1 FOOT CANDLE. (IBC 1008.3.5)
- 7.2. EMERGENCY LIGHTING SHALL BE SUPPLIED BY: INVERTER OR BATTERY BACK-UP FIXTURES.

EXIT SIGN NOTES

DURING CONSTRUCTION UPON COMPLETION OF A TYPICAL FLOOR FRAMING AND BEFORE WALL COVER, ELECTRICAL CONTRACTOR SHALL WALK THE EGRESS PATHS WITH THE LOCAL INSPECTOR (AHJ) TO CONFIRM THAT ALL THE EXIT SIGNS ARE LOCATED PER THE AHJ'S SATISFACTION AND IDENTIFY ANY ADDITIONAL EXIT SIGNS THAT THE AHJ WISHES TO BE INSTALLED (IBC 1013.1). CONTRACTOR SHALL PROVIDE UP TO 10% ADDITIONAL EXIT SIGNS AT NO ADDITIONAL COST.





ROME(ADDITI WA 9846 ORI S /

CHARLES RISH OFFI(2 S 12TH ST, TA

ATE: 06/17/2024 REI NO. 1145-008

SHEET TITLE:

SPY

LIGHTING NOTES AND LUMINAIRE SCHEDULE



tometric
2.12
3.3
1.0
0.31
3.19
2.07

PHOTOMETRIC NOTES

- 1. PHOTOMETRIC CALCULATIONS BASE ON AVAILABLE IES FILES FROM FIXTURE MANUFACTURER (OR EQUIVALENT). FIXTURE SUBSTITUTIONS MAY COMPROMISE FOOT CANDLE (FC) LEVELS.
- 2. PHOTOMETRIC CALCULATION ELEVATION FROM CEILING HEIGHT UON IN LUMINAIRE SCHEDULE ON SHEET E1.50.
- 3. EMERGENCY EGRESS SHOWN, PHOTOMETRIC CALCULATIONS BASED ON EMERGENCY LIGHTING ONLY. CALCULATION ELEVATION AFF.

REI NO. 1145-008

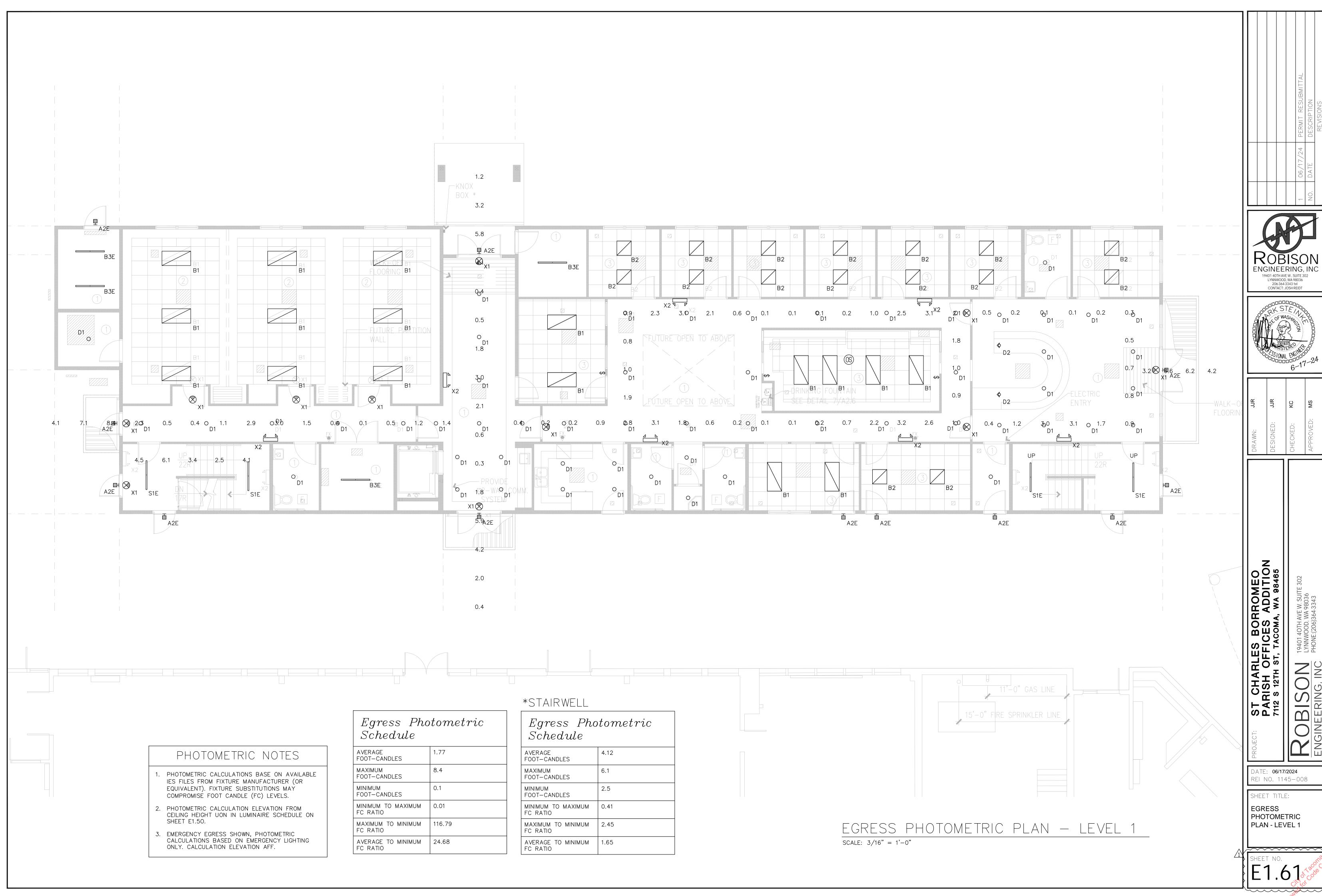
SHEET TITLE:

EGRESS
PHOTOMETRIC PLAN BASEMENT

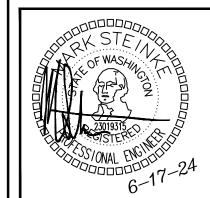
SHEET NO.

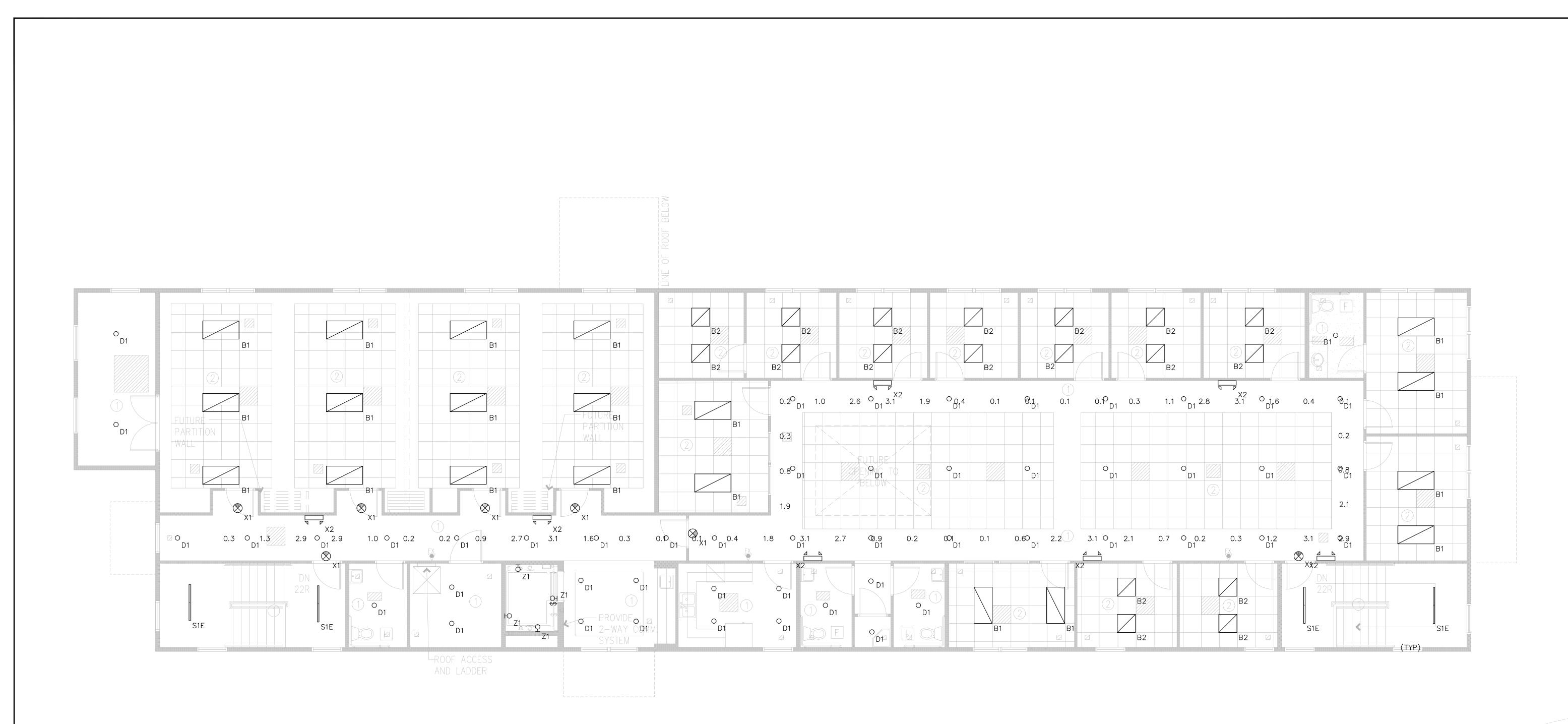
EGRESS PHOTOMETRIC PLAN PLAN - BASEMENT

SCALE: 3/16" = 1'-0"









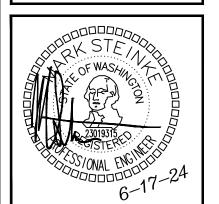
PHOTOMETRIC NOTES

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Egress Photometric Schedule

/ERAGE OOT—CANDLES	1.24
AXIMUM OOT—CANDLES	3.1
NIMUM OOT-CANDLES	0.1
NIMUM TO MAXIMUM RATIO	0.02
AXIMUM TO MINIMUM RATIO	49.25
/ERAGE TO MINIMUM RATIO	19.85

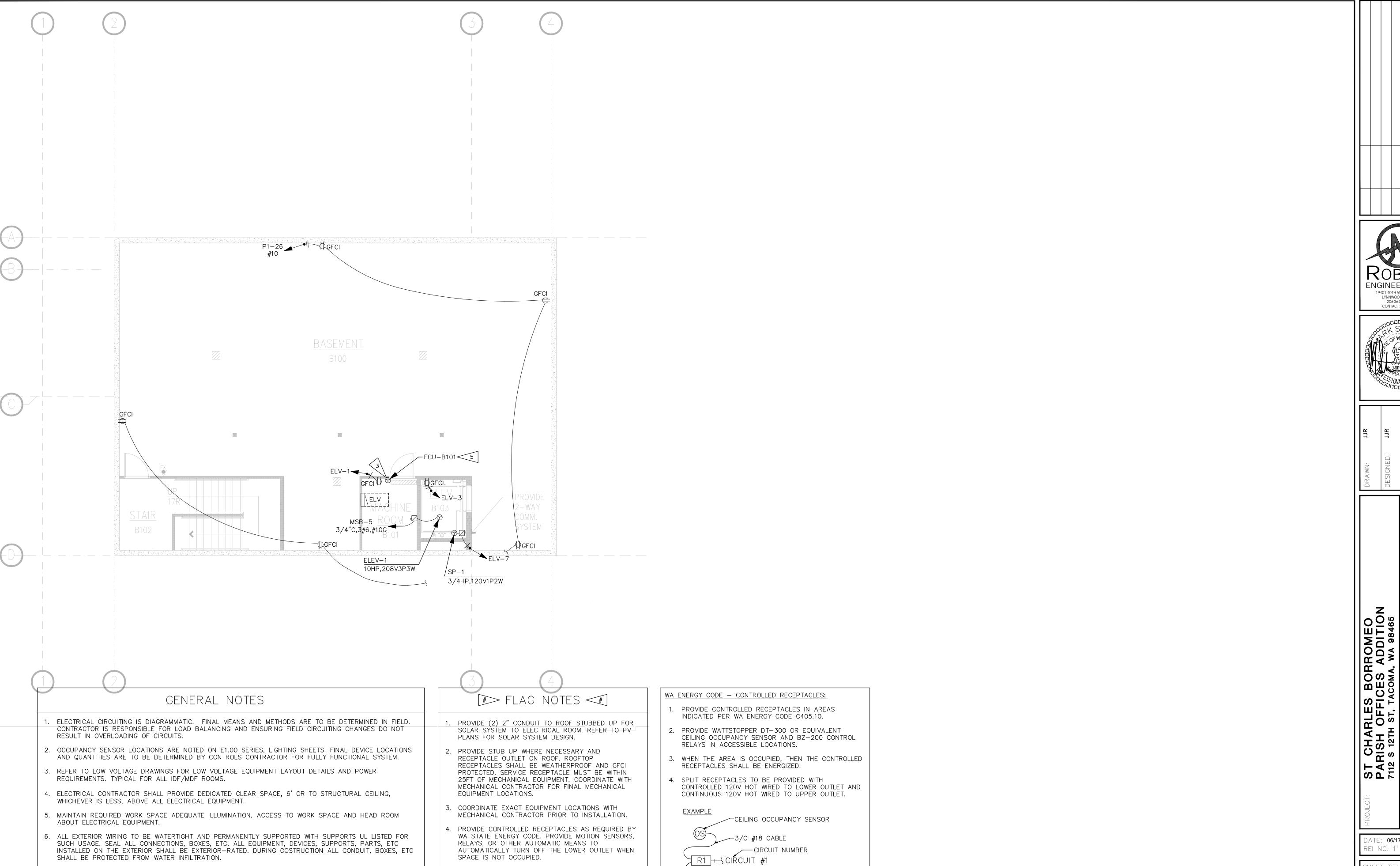
EGRESS PHOTOMETRIC PLAN - LEVEL 2 SCALE: 3/16" = 1'-0"



ST CHARLES BORROMEO
PARISH OFFICES ADDITION
7112 S 12TH ST, TACOMA, WA 98465

REI NO. 1145-008

SHEET TITLE: EGRESS PHOTOMETRIC PLAN - LEVEL 2



R2 +-- CIRCUIT #2 RELAYS TO BE MOUNTED IN

ACCESSIBLE LOCATION

POWER PLAN - BASEMENT

SCALE: 3/16" = 1'-0"

5. INDOOR UNIT POWERED FROM OUTDOOR UNIT.

ROOM OF EXISTING BUILDING.

 $\,$ 6. CONTRACTOR TO ROUTE DATA FROM EXISTING SERVER $\,$

7. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY BUCKOUTS NOT SHOWN OR

8. RECEPTACLE LOCATIONS IN THE FRONT OF HOUSE AREA TO BE COORDINATED WITH ARCHITECT AND/OR

9. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB TO SLAB WALL LOCATIONS. CONTRACTOR SHALL PROVIDE

PENETRATIONS AS REQUIRED AND FIREPROOFING INSULATION TO MAINTAIN RATING OF ANY FIRE-RATED WALLS AND FLOORS. ALL FLOOR PENETRATIONS SHALL BE FINISHED TO PROVIDE A SMOOTH SURFACE.

SLEEVE LOCATIONS FOR INDIVIDUAL RISER CONDUITS WITH THE STRUCTURAL ENGINEER.

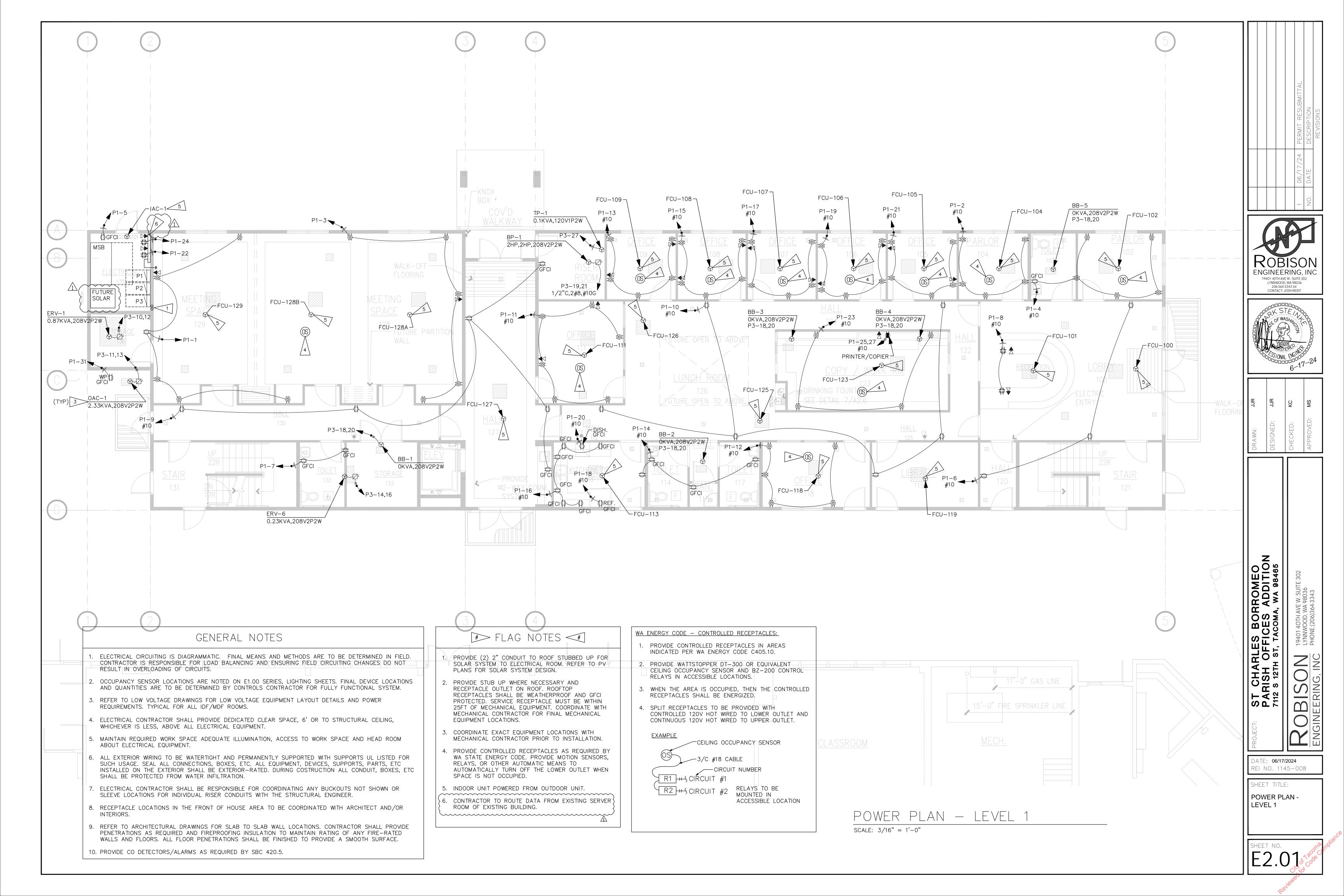
10. PROVIDE CO DETECTORS/ALARMS AS REQUIRED BY SBC 420.5.

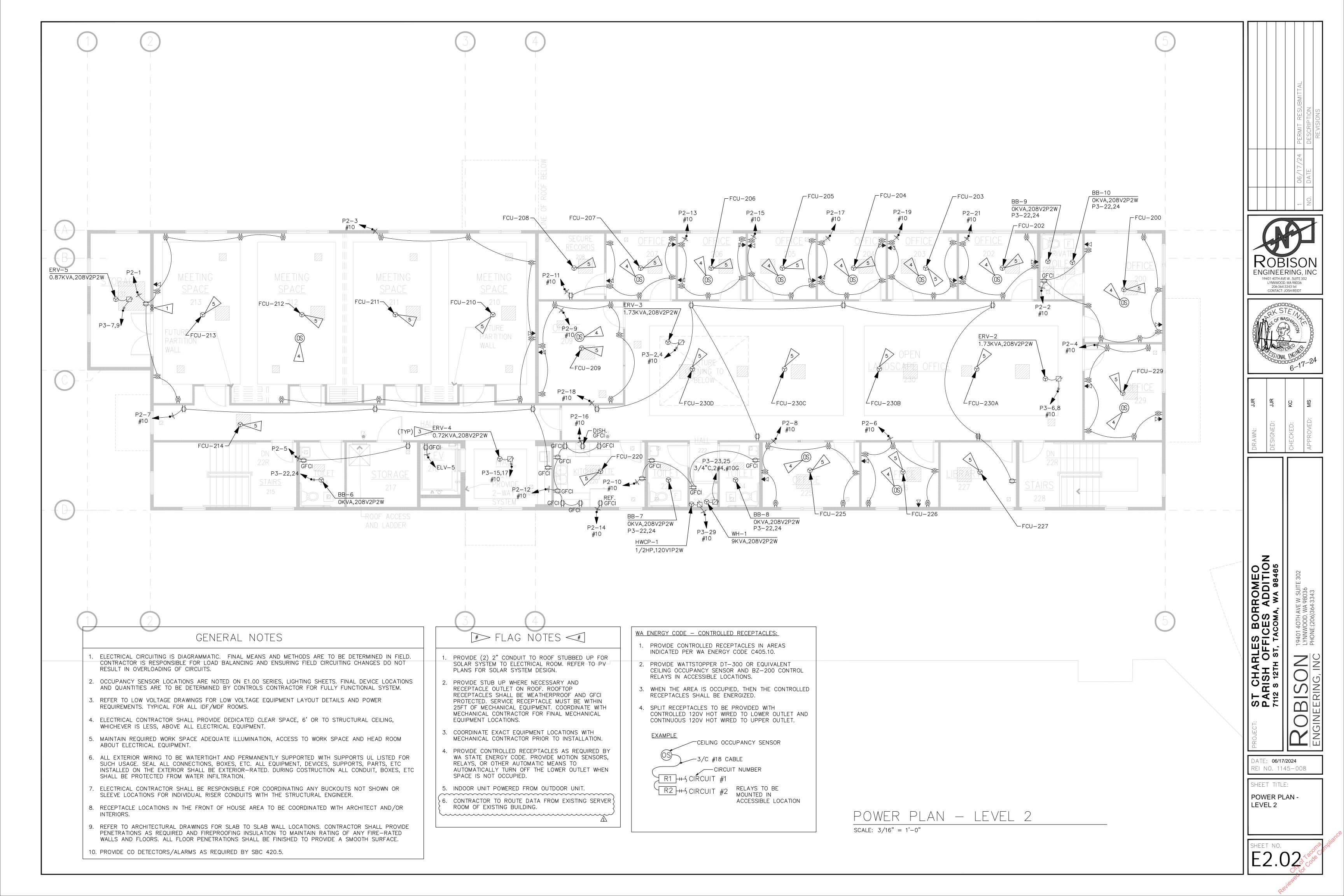
INTERIORS.

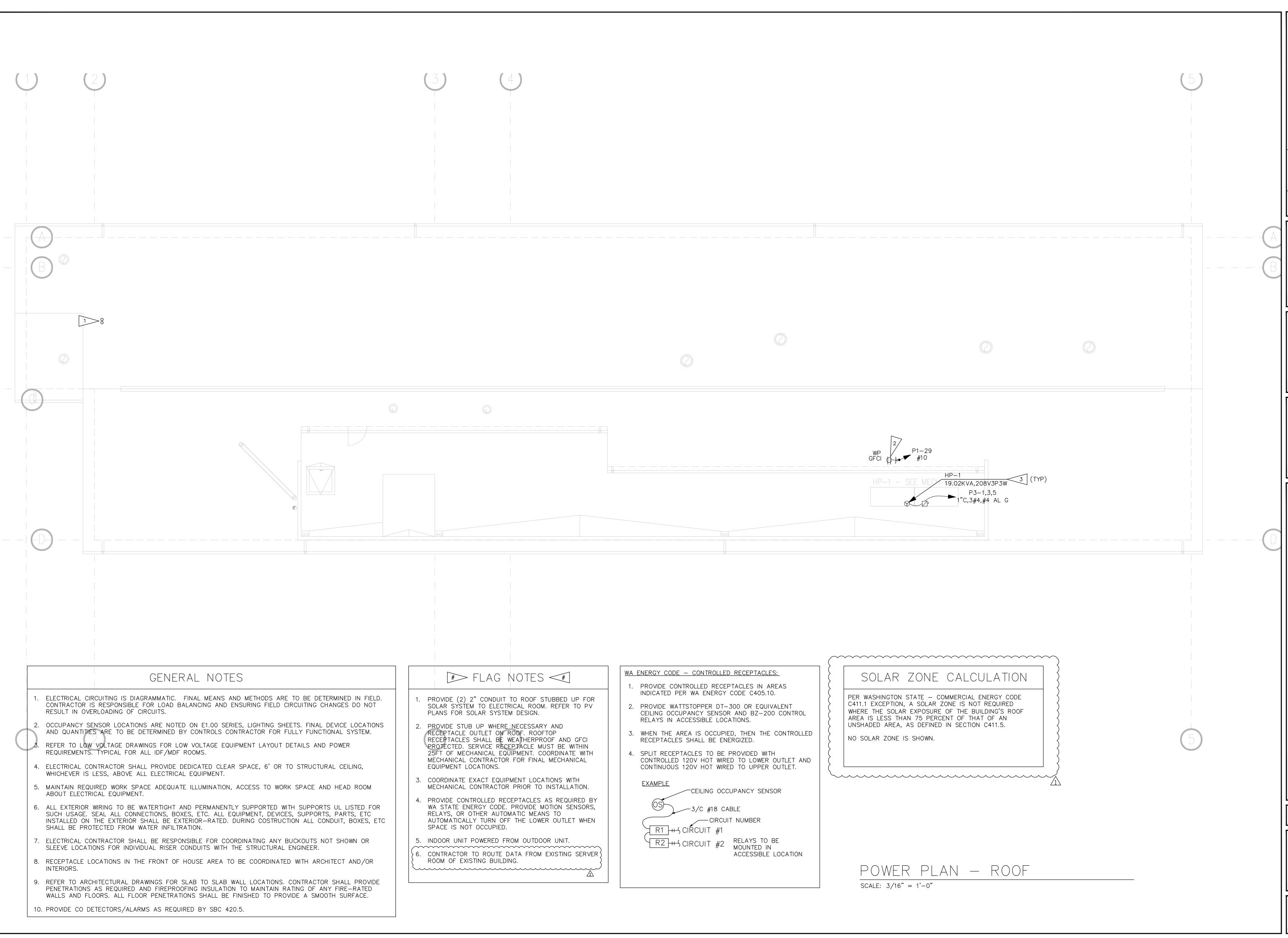
DATE: **06/17/2024** REI NO. 1145-008

SHEET TITLE:

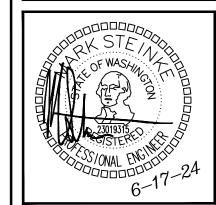
POWER PLAN -BASEMENT











ROMEO ADDITIOI , wa 98465 CHARLES ARISH OFFIC 2 S 12TH ST, TA

|S A F

)ATE: **06/17/2024** REI NO. 1145-008

SHEET TITLE:

POWER PLAN -ROOF

FEEL	DER S	CHEDULE	
ID	FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
1	60	1-1/4"C,3#4,#4N,#10G	ELV
2	200	2-1/2"C,3#250kcmil AL,#250kcmil AL N,#4 AL G	P1, P2, P3
3	800	(3)3"C,3#400kcmil AL,#400kcmil AL N	MSB
4	50	3/4"C,3#6,#10G	ELEV-1

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C 1/0 AND ABOVE

ROOF

LEVEL 2

FAUI	LT CUI	RRENT	SCHE	CDULE		
DEVICE	FAULT	AIC	L-N	UTILITY	FEEDE	R
		RATING	VOLTS	FAULT	SIZE	LENGTH
MSB	18,702	65,000	120V	17,495	(3)#400kcmil AL	178'
ELEV-1	2,411	22,000	120V	2,411	#6	91'
ELV	3,718	22,000	120V	3,654	#4	89'
P1	14,382	42,000	120V	13,671	#250kcmil AL	23'
P2	12,798	42,000	120V	12,227	#250kcmil AL	34'
Р3	14,039	42,000	120V	13,200	#250kcmil AL	26'

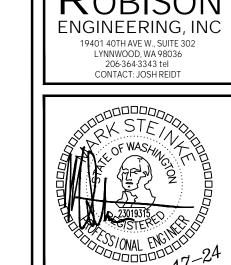
VOLTAGE L	ROP SCH	EDULE				
DEVICE	F	FEEDER	BRANCH	CIRCUIT		TOTAL
	VOLTAGE DROP	WIRE SIZE	MAX VOLTAGE DROP	WIRE SIZE	LENGTH	VOLTAGE DROP
MSB	1.55%	(3)#400kcmil AL	1.09% (TAP 5)	#6	91'	2.64%
ELEV-1			1.09%	#6	91'	
ELV	1.71%	#4	0.67% (CKT 7)	#12	17'	2.38%
P1	1.64%	#250kcmil AL	2.17% (CKT 4)	#10	154'	3.81%
P2	1.71%	#250kcmil AL	3.07% (CKT 2)	#10	168'	4.78%
P3	1.81%	#250kcmil AL	1.94% (CKT 1,3,5)	#4	152'	3.75%

250.66 (IF JUMPER IS NOT ÀLREADY PRESENT) GROUND BUS • • • NEUTRAL BUS SIZE PER NEC TABLE ---— SIZE PER NEC TABLE 250.66 EXOTHERMIC WELD OR LISTED CLAMP
CONNECTION BUILDING ENTRANCE -EXOTHERMIC WELD OR LISTED CLAMP CONNECTION — 5/8" BY 8' GROUND ROD — 5' MAXIMUM WATER (METER) SERVICE EFFECTIVELY GROUNDED — STRUCTURAL STEEL MEMBER FOOTING OR SLAB
REBAR LISTED CLAMP CONNECTION GEC DIAGRAM

MAIN SERVICE ENTRANCE PANEL (OR MAIN SERVICE DISCONNECT) SIZE PER NEC TABLE ---

#> FLAG NOTES

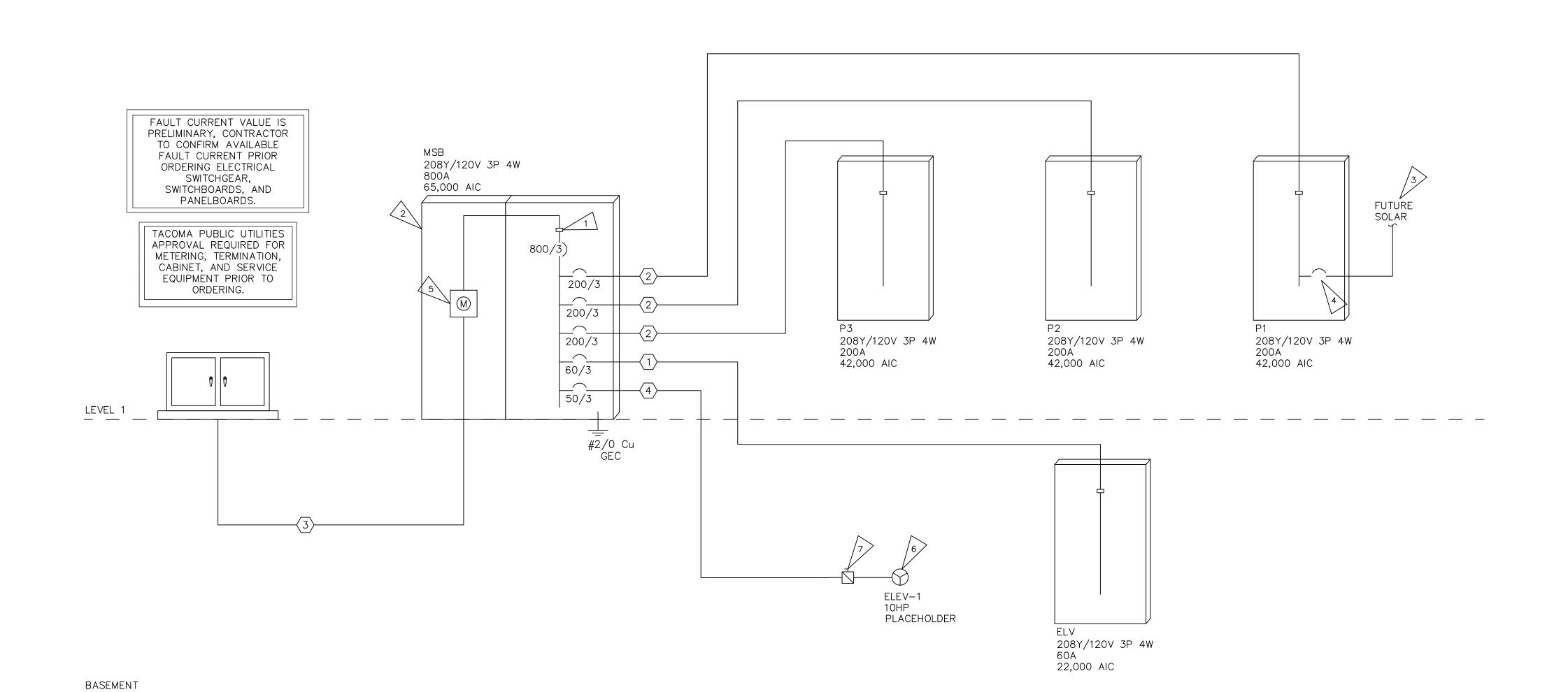
- 1. TPU SERVICE TERMINATION POINT.
- 2. ALL ELECTRICAL GEAR, INCLUDING PULL BOXES, MUST BE APPROVED BY TPU PRIOR TO PURCHASING. TYPICAL.
- 3. PROVIDE (2) 2" CONDUIT FOR FUTURE SOLAR PATHWAY.
- 4. BREAKER SPACE FOR PV SYSTEM. PROVIDE (2)2" CONDUIT TO ROOF FOR SOLAR READY PATHWAY.
- 5. THREE-PHASE TPU METER.
- 6. PROVIDE BUSSMAN CONTROL MODULE IF ELEVATOR MACHINE ROOM IS SPRINKLED.
- 7. COORDINATE FUSE TRIP FOR ELEVATOR LOADS.



ST CHARLES BORROMEO
PARISH OFFICES ADDITION
7112 S 12TH ST, TACOMA, WA 98465

DATE: **06/17/2024** REI NO. 1145-008

SHEET TITLE: ONE-LINE DIAGRAM



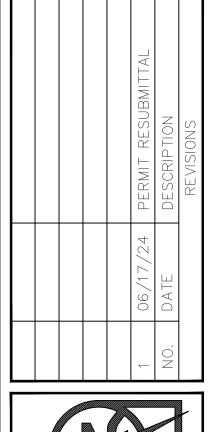
M	SB										
	NTING FLOOR FROM UTILITY		BL	DLTS 208Y, S AMPS 8 UTRAL 100	300						
CKT	BREAKER				L	OAD KV	A				
#	TRIP/POLES	CIRCUIT DESCRIP	TION		Α	В	С	FEEDER I	RACEWAY AND	CONDUCTOR	S
1 2 3 4 5 6 7 8	200/3 200/3 200/3 60/3 50/3 -/3 -/3	PANEL P1 PANEL P2 PANEL P3 PANEL ELV ELEV-1 (FUTURE LOAD) SPACE SPACE	9.36 8.34 17.2 1.87 3.88 20.4 0	8.88 8.48 11.5 0.288 3.88 20.4 0	5.46 7.44 14.9 0.18 3.88 20.4 0	2-1/2"C,3#250kcmil AL,#250kcmil AL N,#4 AL G 2-1/2"C,3#250kcmil AL,#250kcmil AL N,#4 AL G 2-1/2"C,3#250kcmil AL,#250kcmil AL N,#4 AL G 1-1/4"C,3#4,#4N,#10G 3/4"C,3#6,#10G 2-1/2"C,3#300kcmil AL,#2 AL G					
		TOTAL CONNE			61	53.4	52.2				
LAF	HTING RGEST MOTOR TORS	4.78 61.1 109	5.98 15.3 109	(125%) (25%) (100%)		CON NON HEA	AL LOAD	JOUS	CONN KVA 37.3 0.1 6.6 9	23.6 0.125 6.6 9 169 470 A	(50%>10) (125%) (100%) (100%)

Pa	nel		ROOM MOUNTIN FED FRC NOTE		4CE	BUS	AMP	08Y/120 S 200 100%	V 3P 4W	М	IC 42,00 IAIN BKR UGS STA	MLO
CKT #	CKT BKR	LOAD KVA	CIRCUIT	DESCRIF	PTION		CKT #	CKT BKR	LOAD KVA	CIRC	JIT DESC	RIPTION
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	1.26 1.26 0.36 0.72 1.08 1.08 0.9 0.9 0.9 0.9 0.9 0.06 0.06 0.06 0.04 0.04 0.656 0.819 0.52 0	RECEPT LIGHTING SPARE SPARE	ACLE ACLE ACLE ACLE ACLE ACLE ACLE ACLE		а в с а в с а в с а в с	2 4 6 8 10 12 14 16 18 20 22 46 26 30 33 40 42	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	1.44 1.08 0.9 1.08 0.72 1.08 0.6 1.2 1.26 0.677 0.625 0.661 0.144 0 0 0	RECE RECE RECE RECE RECE REFR	PTACLE PTACLE PTACLE PTACLE PTACLE PTACLE IGERATOR VASHER PTACLE ING ING ING ING E E E E E	
LI	GHTING	_	CONN KVA .64	CALC KVA 5.8	(125%)		NON TOTA BALA LOA PHA PHA	AL LOAD ANCED 3	S 17.8 OUS 1.8	DNN VA 3	CALC KVA 13.9 1.8 21.5 59.7 A 103% 105% 92%	(50%>10) (100%)

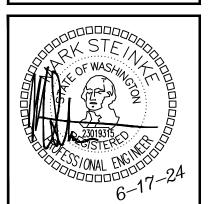
Pa	nel		ROOM MOUNTIN FED FRO NOTE		ACE	BUS	AMP	08Y/12C S 60 100%)V 3F	9 4W	N	AIC 22,0 MAIN BKF LUGS ST	R MLO
(T	CKT BKR	LOAD KVA	CIRCUI	Γ DESCRI	PTION		CKT #	CKT BKR	LO KV	AD 'A	CIRC	UIT DES	CRIPTION
 1 3 5 7 9 1	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	0.18 0.18 0.18 1.66 0 0 0 0	RECEPT RECEPT RECEPT SP-1 SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	ACLE			4 6 8 10 10 12 14 16 16 18 20 22	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	0.0 0.1 0 0 0 0 0 0)31 08	LIGH LIGH SPAF SPAF SPAF SPAF SPAF SPAF SPAF	TING RE	
LI	GHTING	_	CONN KVA 0.139	CALC KVA 0.174	(125%)		MOT REC TOT BAL LO PH.	GEST OTOR ORS EPTACLE AL LOAD ANCED 3 AD ASE A ASE B ASE C)	1.66 1.66 0.54	$\dot{\delta}$	CALC KVA 0.414 1.66 0.54 2.78 7.73 A 240% 37% 23.1%	- (25%) (100%) (50%>10)

P	nel) 1			JRFACE B	US	AMP	08Y/120\ S 200 100%	V 3P 4W	MAIN BKR MLO LUGS STANDARD
CKT #	CKT BKR	LOAD KVA	CIRCUIT DES	CRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	1.08	RECEPTACLE		a	2	20/1	0.9	RECEPTACLE
3	20/1	0.9	RECEPTACLE		þ	4	20/1	1.08	RECEPTACLE
5	20/1	0.18	RECEPTACLE		c	6	20/1	0.54	RECEPTACLE
7	20/1	0.36	RECEPTACLE		a	8	20/1	0.72	RECEPTACLE
9	20/1	1.08	RECEPTACLE		b	10	20/1	1.08	RECEPTACLE
11	20/1	1.08	RECEPTACLE		c	12	20/1	0.9	RECEPTACLE
13	20/1	0.9	RECEPTACLE		a	14	20/1	0.72	RECEPTACLE
15	20/1	0.9	RECEPTACLE		þ	16	20/1	1.08	RECEPTACLE
17	20/1	0.9	RECEPTACLE		c	18	20/1	0.6	REFRIGERATOR
19	20/1	0.9	RECEPTACLE		a	20	20/1	1.2	DISHWASHER
21	20/1	0.9	RECEPTACLE		þ	22	20/1	0.36	RECEPTACLE
23	20/1	0.72	RECEPTACLE		c	24	20/1	0.36	RECEPTACLE
25	20/2	3	PRINTER		a	ļ.	20/1	0.9	RECEPTACLE
27					þ	28	20/1	0	SPARE
29	20/1	0.18	RECEPTACLE		c	30	20/1	0	SPARE
31	20/1	0.18	RECEPTACLE		a	32	20/1	0	SPARE
33	20/1	0	SPARE		þ	1	20/1	0	SPARE
35	20/1	0	SPARE		c	1	20/1	0	SPARE
37	20/1	0	SPARE		a	38	20/1	0	SPARE
39	20/1	0	SPARE		þ	40	-/2	0	FUTURE SOLAR
41	20/1	0	SPARE		c	42			
	<u> </u>		CONN CAL KVA KV.		_				CALC KVA
RECEPTACLES 18.9 14.5 (50%>10) NONCONTINUOUS 4.8 4.8 (100%)							AL LOAD		19.3
						BAL.	ANCED 3: AD	-PHASE	53.4 A
							ASE A		119%
							ASE B ASE C		113% 68.9%

Pa	nel) Z		ROOM MOUNTING FED FROM NOTE		ACE	BUS	AMP	08Y/120 S 200 100%	V 3P 4W	М	IC 42,00 IAIN BKR UGS STA	MLO
CKT #	CKT BKR	LOAD KVA	CIRCUIT	DESCRI	PTION		CKT #	CKT BKR	LOAD KVA	CIRCI	JIT DESC	CRIPTION
1 3	110/3	19	HP-1			a b	4	15/2	1.73	ERV-		
5 7 9	15/2	0.865	ERV-5			a b	8	15/2 15/2	1.73	ERV-		
11 13	15/2	2.33	OAC-1			c	12	15/2	0.233	ERV-		
15 17	15/2	0.716	ERV-4			b	18	20/2	0.015	 BB-1 BB-5		BB-3, BB-4,
19 21 23	40/2 60/2	5.76	BP-1 WH-1			b	١	20/2	0.015		s, BB-7,	BB-8, BB-9,
25 27	20/1	0.1	TP-1			a	26 28	20/1 20/1	0	SPAR SPAR	E	
29 31	20/1 20/1	1.18	HWCP-1 SPARE			a	32	20/1	0	SPAR SPAR	E	
33 35 37	20/1 20/1 20/1	0 0	SPARE SPARE SPARE			b	36	20/1 20/1 20/1	0 0	SPAR SPAR SPAR	E	
39 41	20/1	0	SPARE SPARE				40	20/1 20/1	0	SPAR SPAR	E	
			CONN KVA	CALC KVA						NN VA	CALC KVA	
LARGEST MOTOR		1	19 4.76 (2 5		(25%)		MOTORS CONTINUOUS HEATING		34.5 0.1 9	5	34.5 (100%) 0.125 (125%) 9 (100%)	(125%)
							BAL	AL LOAD ANCED 3	-PHASE		48.3 134 A	_
							PH	AD ASE A ASE B ASE C			117% 79.6% 103%	







JJR	KC	MS
SIGNED:	ECKED:	PROVED:

DESIGNED: KACHECKED: KACHECKED: MACHECKED: M

ST CHARLES BORROMEO
PARISH OFFICES ADDITION
7112 S 12TH ST, TACOMA, WA 98465

SIGNAL 19401 40TH AVEW. SUITE 302

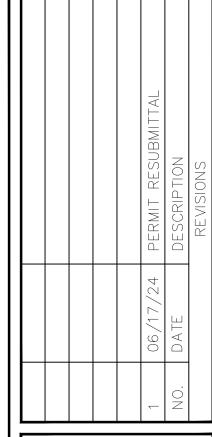
ROBISONENGINEERING, INC.

DATE: **06/17/2024** REI NO. 1145-008

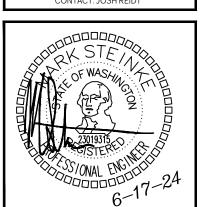
SHEET TITLE:
PANEL SCHEDULES

SHEET NO. E5.01

2018 WSEC Compliance Project & Applicant Information General Occupancy General Project Types Lighting Project Description	All	Project Title Project Address Applicant Name Applicant Phone Applicant Email For questions about this	Group R2, R3	- TO ALL CONTRACTOR OF THE CONTRACTOR	es and all R1 Borromeo - 2018 WS	FC Fc		Department Use	e:	Admini	istered by: ©2	024 NEEA, All rights re
General Occupancy General Project Types Lighting Project		Project Address Applicant Name Applicant Phone Applicant Email		St Charles	Borromeo - 2018 W/S	EC Ec	TH. 11 11 TO	Department Use	e:			
General Occupancy General Project Types Lighting Project		Applicant Name Applicant Phone Applicant Email			7112 S 12th	10	or Building L				D	ate: Mar 13, 2
General Occupancy General Project Types Lighting Project		Applicant Phone Applicant Email		Ta	coma, WA 98465 Joshua Reidt							
General Project Types Lighting Project				20110000000000	206-343-3343							
General Project Types Lighting Project			s report, contact	- 4	obisonengineering.cor cial Technical Suppor) or via email	l at com.techsu	ipport@wae	nergycodes.com		
General Project Types Lighting Project		Commercial	General Bu	ilding Use Type	7	ľ a	Office, Othe	r Building	Cond. Floo	r Area		19,726
Lighting Project	s New Building	New Building or Addition	1	nterior Lighting	Alteration				ond, Floor			19,726
		Lighting Scope		interior Lighting	Lighting S	cope		-	nce Method		Compli	iance Method 1 - Genera
Lighting Compliance	Duol out 1	Interi	ior / Exterior	I aminaina P	eplacement Scope	Ĭ	Complia	nas Mathad	Ī	LPA Calcul	ation	Compliano
Scope and Method	Project T New Buil	8	cludes both interi & parking) rior Lighting	lor Lummane N	epiacement scope		5-00-00 m # 5-4-04	by space	No.	Adjustme Calculation Adjust	27.061	Verificatio d COMPLIE
		ang Inter	ioi Lighting	7.0		Ţ	эрасс	by space	110	Calculation Aujust	diferes selecte	
Project Title	St Charles Bo	orromeo - 2018 WSE	.C								Date	Mar 13, 2024
Lighting Power Cal	alculation	NEW BUILDI	NG - INTER	RIOR LIGHT	ING			Complian	ce Verifica	ation		COMPLIES
Compliance Method			Space by spa	ce		LPA Calculation	n Adjustmer	nt				none
		- 1941	-	Interior	Lighting Power Allo	wance - Space by		01-01-00-1-01-1-1-1-1-1-1-1-1-1-1-1-1-1	an none visit of			
General Sp	Space Type	Specific Spac	е Туре	Gross In	terior Area (SF)	LPA (Watts/	/SF)	Total Watts A (SF x LPA		Total Propo (LPD + Dis	osed Watts play LPD)	Compliance Stat
Conference/meetin Copy/prin	eting/multipurpose print room				3,733 268	0.97 0.31		3,621 83				
	ridors	General			1,867 273	0.41		766 117				
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JJR	KC	MS
ESIGNED:	HECKED:	PROVED:

DATE: **06/17/2024** REI NO. 1145-008

LIGHTING COMPLIANCE FORMS

E6.00