

1 PEAK\MID CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"

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ASTEL ENGINEERING
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Project #:

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ROSEBURG, OR 97470
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ROMTEC

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

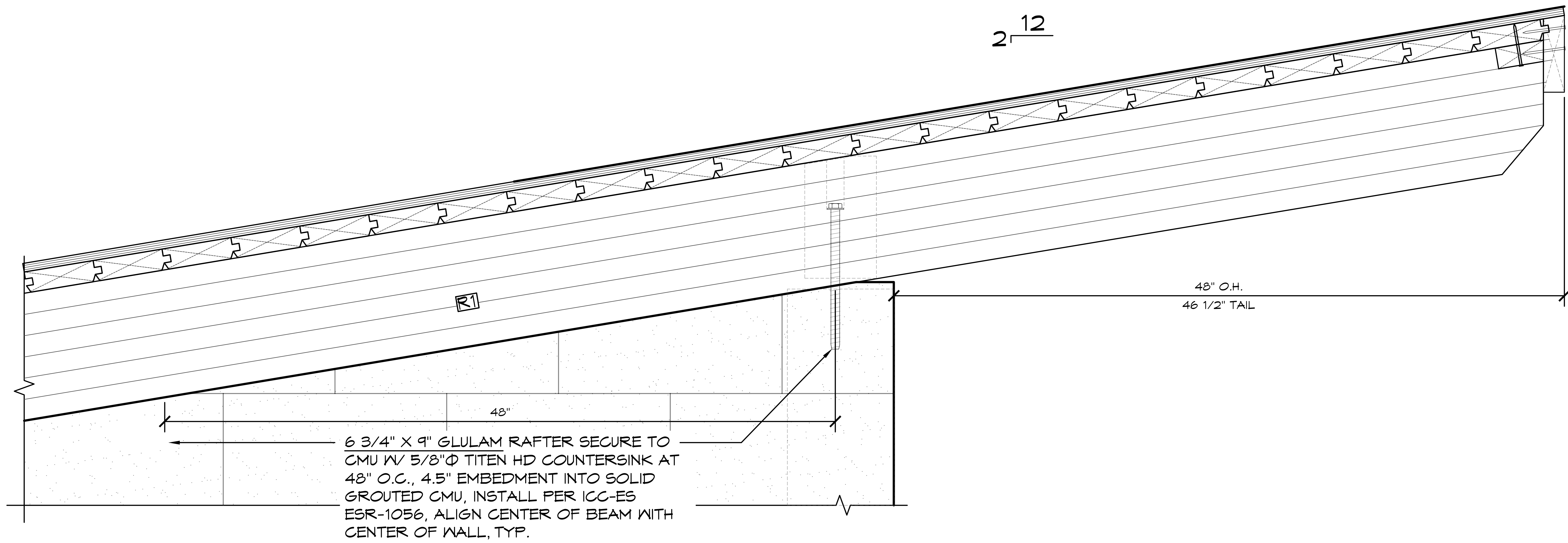
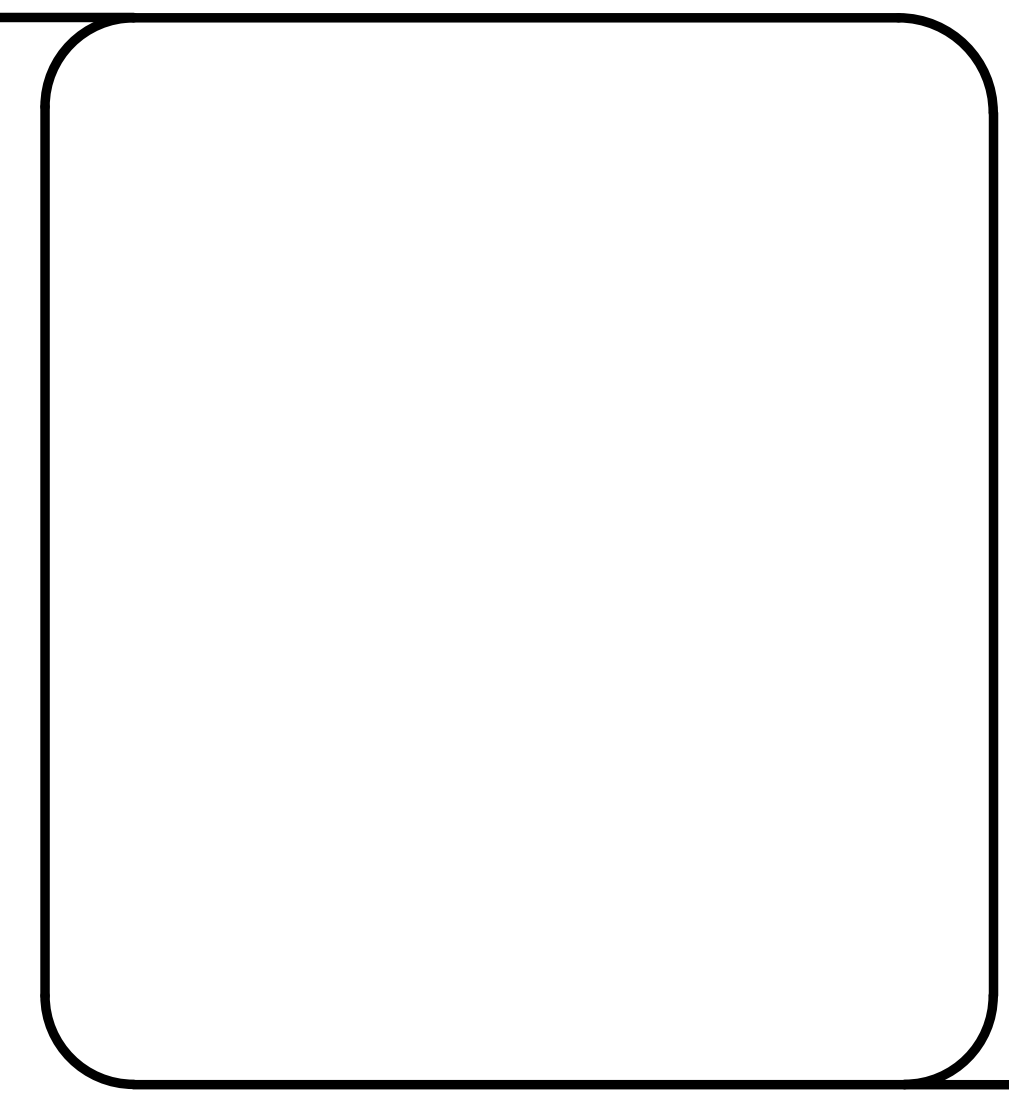
WEST CAMPUS
SACRAMENTO, CALIFORNIA

SHEET TITLE: CONNECTION DETAILS

PLAN SET#		
WES01		
DATE:		
11/01/2023		
REVISIONS		
REV.	DATE:	BY
2	12-07-2023	CR
4	02-27-2024	CR
DRAWN BY:		
CR		



SHEET NO. **S10.2**



1 GLULAM RAFTER @ WALL CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"

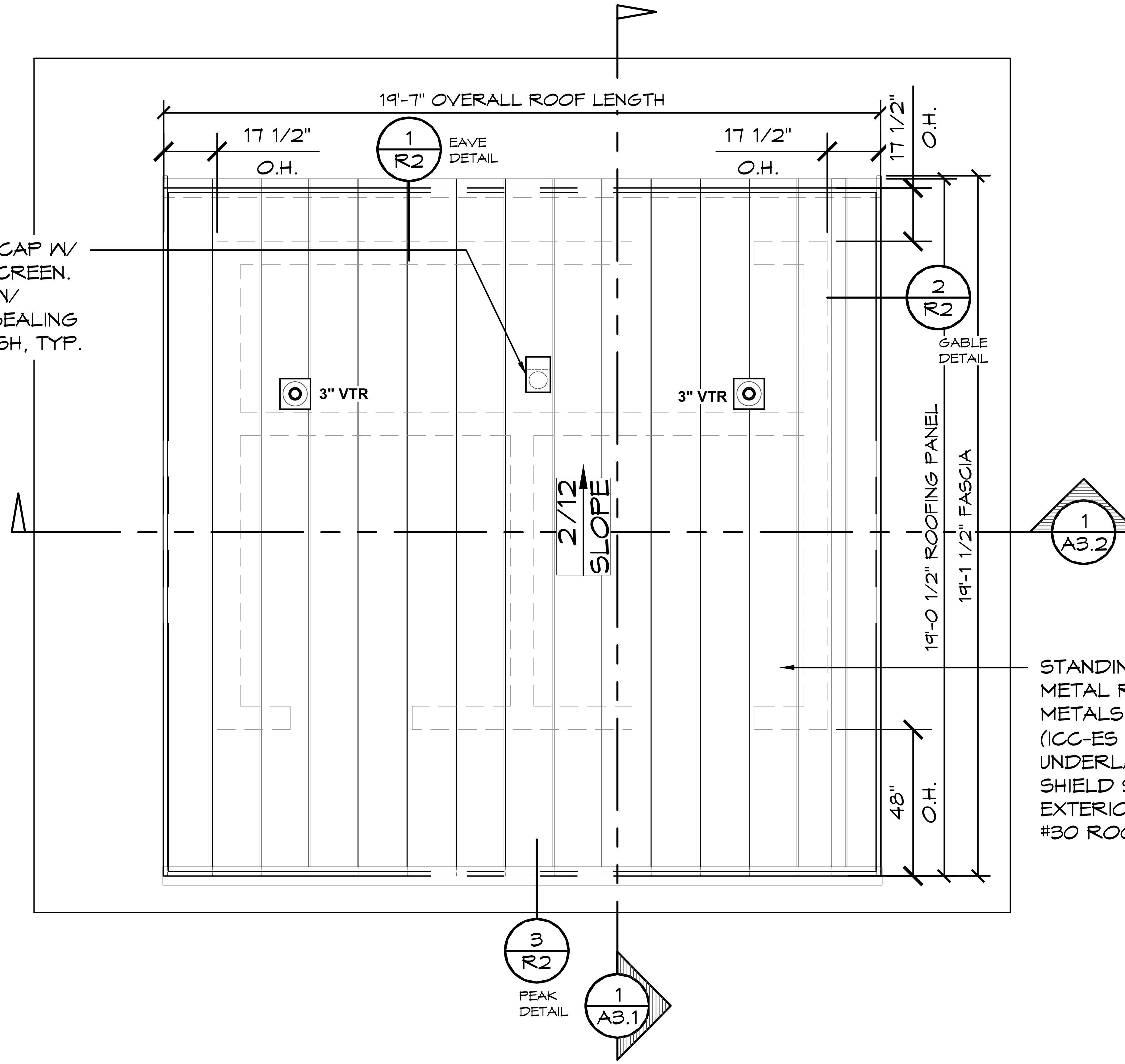


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 26030 Acero, Suite 200 Mission Viejo, CA 92691 Project #:		 18240 NORTH BANK ROAD ROSEBURG, OR 97470 (541) 496-3541 FAX (541) 496-0803	
PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM		WEST CAMPUS SACRAMENTO, CALIFORNIA	
PLAN SET# NES01		SHEET TITLE: CONNECTION DETAILS	
DATE: 11/01/2023		REVISIONS	
REV.	DATE	BY	
4	02-27-2024	CR	
DRAWN BY:		CR	

SHEET NO. **S10.3**

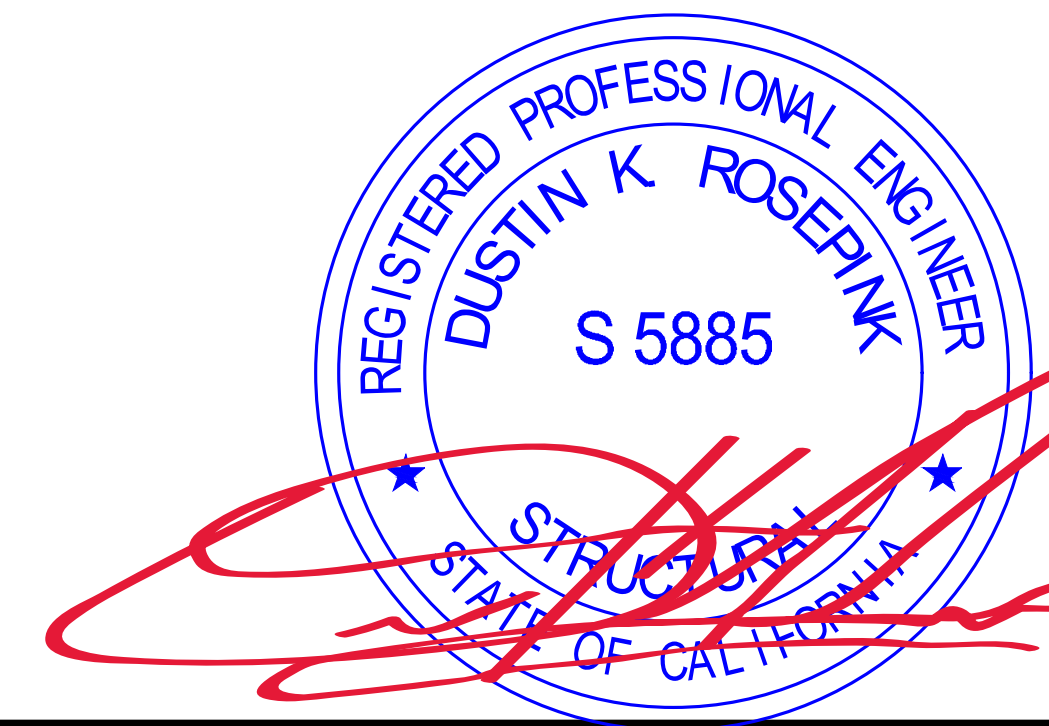
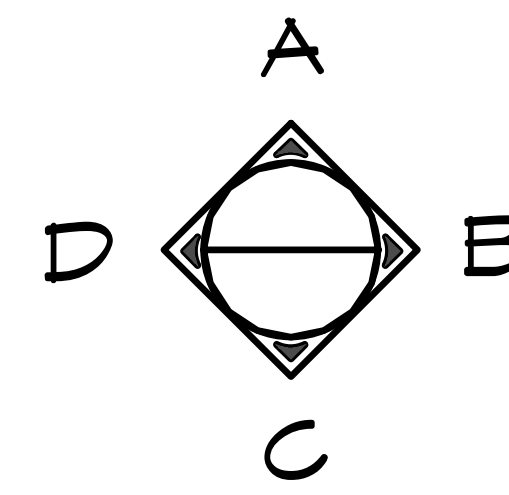
EXHAUST FAN ROOF CAP W/
6" COLLAR & BIRD SCREEN.
SEAL PENETRATION W/
METAL ROOF VENT SEALING
ADAPTER MULTI-FLASH, TYP.



NOTE:
FLASHING SECTIONS OVER
10'-6" IN LENGTH SHALL BE
OVERLAPPED BY 4" AND
EVERY EFFORT MUST BE
MADE TO ENSURE A
SYMMETRICAL APPEARANCE

STANDING SNAP LOCKING SEAM
METAL ROOFING CUSTOM-BILT
METALS SL-1750-18" WIDTH PANEL
(ICC-ES ESL-1491), OVER
UNDERLAYMENT - ICE & WATER
SHIELD SHALL EXTEND 24" PAST
EXTERIOR WALL AT PERIMETER WITH
#30 ROOFING FELT IN FIELD, TYP.

1 ROOFING PLAN
SCALE: 1/4" = 1'-0"



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM WEST CAMPUS SACRAMENTO, CALIFORNIA		18240 NORTH BANK ROAD ROSEBURG, OR 97470 (541) 496-3541 FAX (541) 496-0803									
PLAN SET# WESO1	ROMTEC										
DATE: 11/01/2023	SHEET TITLE: ROOFING PLAN										
REVISIONS	PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM										
<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE:</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>02-15-2024</td> <td>CR</td> </tr> <tr> <td>4</td> <td>02-27-2024</td> <td>CR</td> </tr> </tbody> </table>	REV.	DATE:	BY	3	02-15-2024	CR	4	02-27-2024	CR	DRAWN BY: CR	
REV.	DATE:	BY									
3	02-15-2024	CR									
4	02-27-2024	CR									

SHEET NO. **R1**

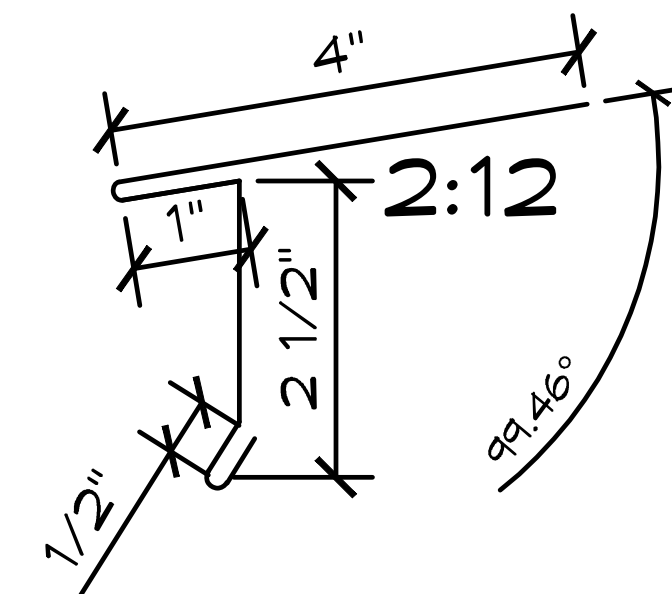
ATTACH PANEL W/ CLIP FASTENED TO SUBSTRATE W/ (2) #10 x 1" PANCAKE SCREWS PER CLIP @ 2'-0" O.C.

UNDERLAYMENT 30# FELT

CAULK UP INSIDE VERTICAL MALE LEG PRIOR TO INSTALLING FEMALE LEG OF NEXT PANEL

RIVET ROOFING PANEL TO EAVE TRIM W/ (2) EVENLY SPACED RIVETS PER PANEL

EAVE TRIM



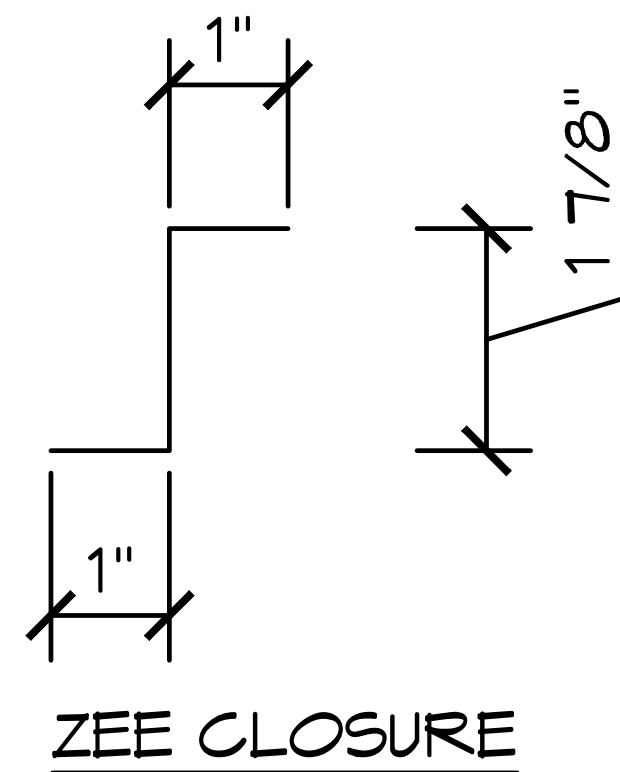
EAVE TRIM

5/8" OSB OVER 2X6 T&G

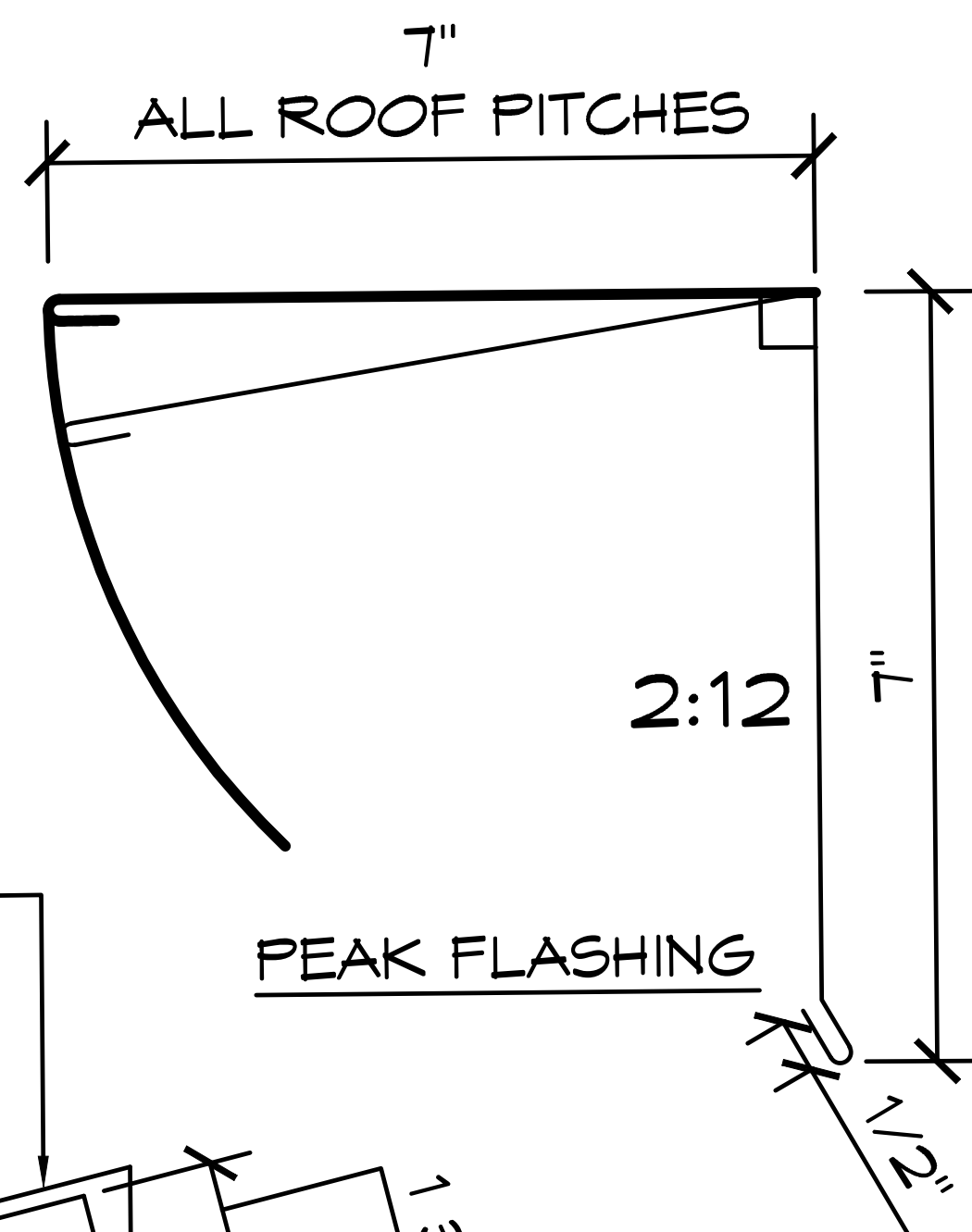
FASTENER #10 x 1" PANCAKE 8" ON CENTER

1 EAVE ROOFING DETAIL (SL1)

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



ZEE CLOSURE



ALL ROOF PITCHES

2:12

PEAK FLASHING

PEAK FLASHING

FASTENER 1/8" RIVET 12" ON CENTER

ZEE CLOSURE SET IN DOUBLE BEAD BUTYL TAPE AND UP VERTICAL LEG

UNDERLAYMENT 30# FELT

5/8" OSB OVER 2X6 T&G

ATTACH PANEL W/ CLIP FASTENED TO SUBSTRATE W/ (2) #10 x 1" PANCAKE SCREWS PER CLIP @ 2'-0" O.C.

FASTENER #10 x 1" PANCAKE SCREWS 4" ON CENTER

FASTEN RAKE FLASHING TO FASCIA W/ #9-15 x 1" WOODGRIP SCREWS AT 16" O.C.

3 PEAK ROOFING DETAIL (SL8)

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

BUTYL TAPE
RAKE SUPPORT TRIM
RAKE FLASHING
FASTEN RAKE FLASHING TO FASCIA W/ #9-15 x 1" WOODGRIP SCREWS @ 16" O.C.

1/8" RIVET 12" ON CENTER

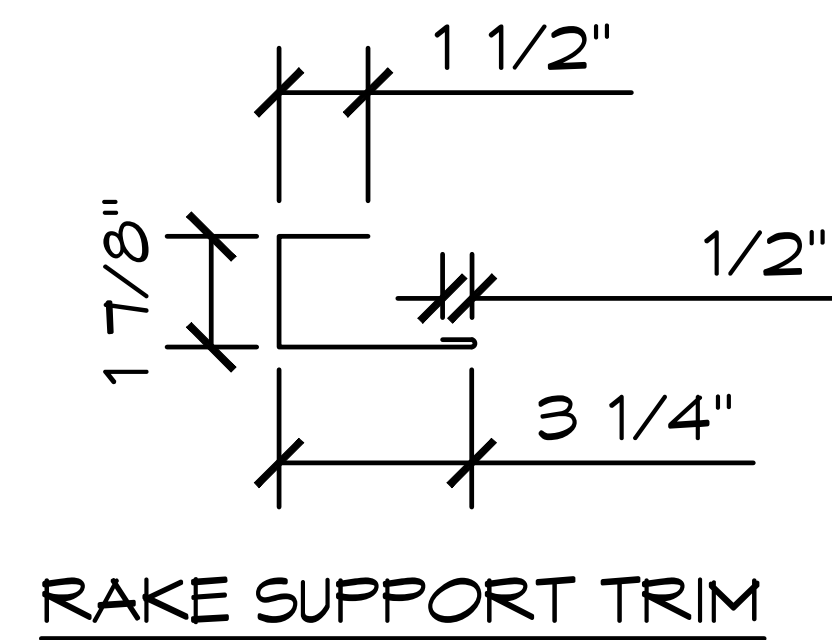
FACTORY STANDING SEAM OR TURN UP PANEL

UNDERLAYMENT 30# FELT

5/8" OSB OVER 2X6 T&G

FASTENER #10 x 1" PANCAKE 6" ON CENTER

RAKE FLASHING



RAKE SUPPORT TRIM

2 RAKE ROOFING DETAIL (SL11)

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

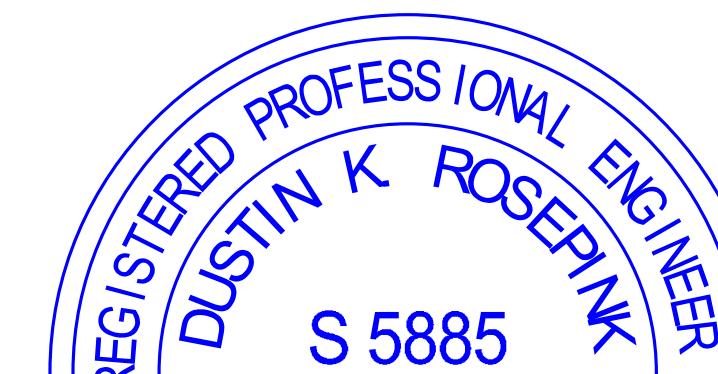
NOTE:

ALL ROOF FLASHING IS 26 GAUGE SHEET METAL

CONTRACTOR SHALL INSTALL ROOFING IN STRICT ACCORDANCE WITH INSTALLATION REQUIREMENTS OF ROOFING MANUFACTURER.

SPECIAL TOOLS REQUIRED:

POP RIVET GUN COMPATABLE WITH 1/8" Ø RIVETS



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

WEST CAMPUS
SACRAMENTO, CALIFORNIA

SHEET TITLE: ROOFING DETAILS

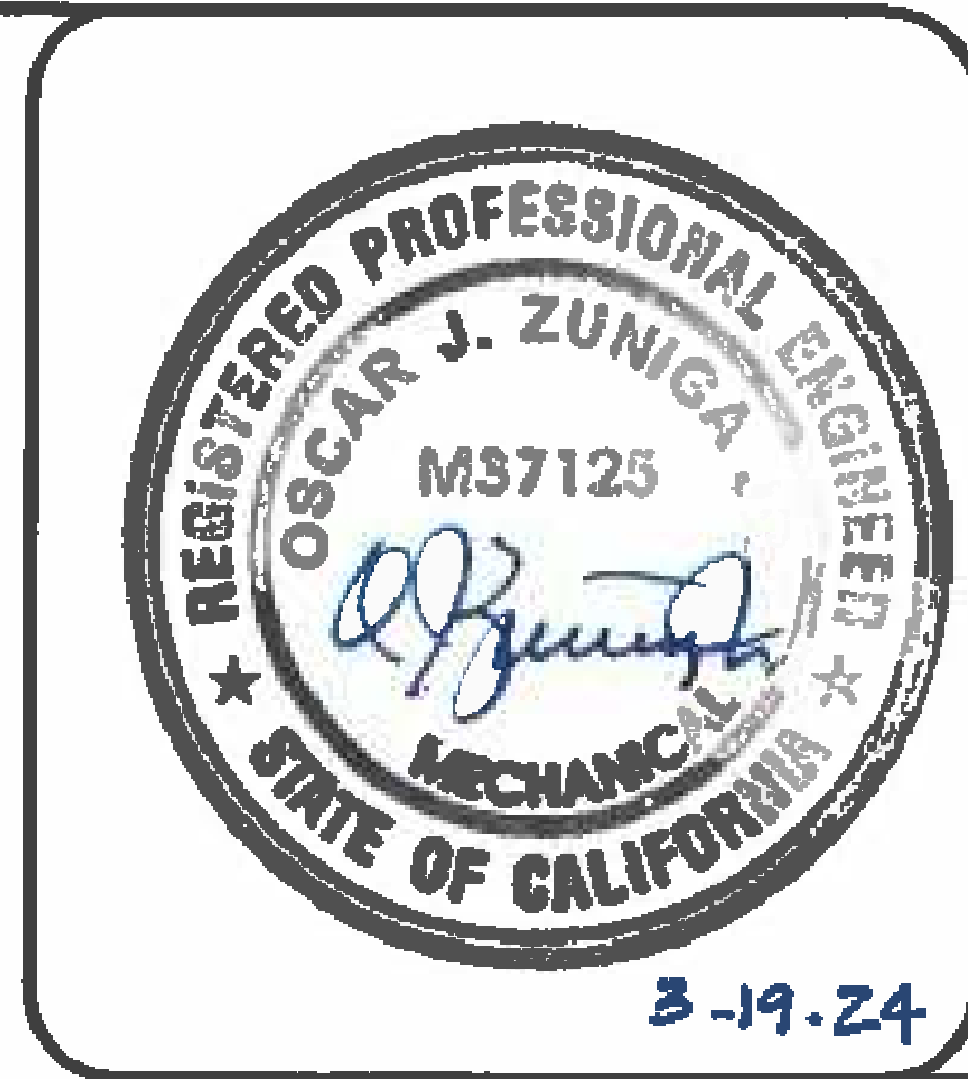
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R2

CALIFORNIA PLUMBING CODE (BASED OFF UPC)

SYM	FIXTURE TYPE	SEWER	VENT	COLD WATER	HOT WATER	MIXED WATER	NO OF FIXT.	W. FIXT. UNITS/EA	TOTAL W. FIXT UNITS	DR. FIXT UNITS	TOTAL DR. FIXT. UNITS
WC	ADA TOILET*	3"	2"	1"	X	-	2	40,30,20,15,10	70	4	8
LAV	HAND SINK*	1 1/4"	1 1/2"	X	X	1/2"	2	1	2	1	2
S-1	UTILITY/MOP SINK	2"	1 1/2"	1/2"	X	1/2"	1	3	3	3	3
DF-1	DRINKING FOUNTAIN*	1 1/2"	1 1/2"	1/2"	X	-	3	.5	1.5	.5	1.5
HB-1	WALL HYDRANT ANTI-FREEZE	X	X	3/4"	X	-	1	2.5	2.5	NA	NA
HB-2	WALL FAUCET	X	X	1/2"	X	-	1	1	1	NA	NA
FD-1	FLOOR DRAIN	3"	1 1/2"	X	X	-	1	NA	NA	2	2
FD-2	FLOOR DRAIN (EMERGENCY)	3"	1 1/2"	X	X	-	2	NA	NA	NA	NA
WH-2	WATER HEATER (INSTANT)*	X	X	3/8"c	3/8"c	3/8"c	1	NA	NA	NA	NA
TOTAL									80	TOTAL	16.5



SIoux CHIEF
(3" 1/2" STRAINER)

GENERAL PLUMBING NOTES:

- ALL PIPE (WATER, SEWER, VENT), JOINTS, AND WORK SHALL CONFORM TO 2022 CALIFORNIA PLUMBING CODE AND LOCAL CODES.
- CONTRACTOR TO CONFIRM LOCATIONS OF SEWER AND WATER TIE-INS.
- CONTRACTOR TO SOLIDLY BRACE ALL PIPING TIGHT AGAINST WALLS. FOR LONG OR COMPLICATED RUNS, SECURELY MOUNT USING UNI-STRUT, IN STRAIGHT AND UNIFORM MANNER FOR FINISHED APPEARANCE. PIPING SHOWN IS DIAGRAMMATIC ONLY AND ACTUAL DESIGN TO BE BY CONTRACTOR.
- CONTRACTOR MAY CHANGE PIPE SIZING IN FIELD TO PROVIDE ADEQUATE WATER PRESSURE TO ALL PLUMBING FIXTURES AS APPROVED BY INSPECTOR. ROMTEC BUILDINGS ARE DESIGNED TO HAVE 40-60 PSI WATER PRESSURE FOR THE PLUMBING FIXTURES. IF THE SITE HAS A PRESSURE OTHER THAN THIS, IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE THE PRESSURE REDUCER OR BOOSTER PUMP NECESSARY.
- CONTRACTOR TO DETERMINE AND PROVIDE MEANS FOR GRAVITY DRAINING ALL PLUMBING FIXTURES TO SEPTIC OR SANITARY SEWER SYSTEM. INSTALLER TO PROVIDE A CLEAN-OUT BENEATH ALL SINKS AND LAVATORY AS REQUIRED BY CODE.
- CONTRACTOR TO DETERMINE AND PROVIDE MEANS FOR SUPPLYING WATER TO ALL PLUMBING FIXTURES AND INSTALL WATER SERVICE SHUTOFF VALVE; TYPICALLY LOCATED WITHIN THE MECHANICAL ROOM.
- IF THE SITE REQUIRES AN ACCESSIBLE BACK FLOW PREVENTER AND/OR PRESSURE REDUCER OR BOOSTER PUMP IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE.
- WHEN INCLUDED, HOT WATER TANKS REQUIRE A TEMPERATURE AND PRESSURE RELIEF VALVE AND A DRAIN LINE TO THE EXTERIOR OF THE BUILDING PER 2022 CPC SECTIONS 608.4 & 608.5. CONTRACTOR TO PROVIDE - FURNISH & INSTALL TWO STRAPS TO THE NEAREST WALL, ONE STRAP AT TOP 1/3 OF TANK AND ONE STRAP AT BOTTOM 1/3 OF TANK, IN COMPLIANCE WITH 2022 CPC SECTION 507.2.
- PLUMBING FIXTURES SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION, SHALL COMPLY WITH 2022 CALIFORNIA PLUMBING CODE (CPC) SECTIONS 401.3 AND 403, AND SHALL COMPLY WITH 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC) SECTION 5.303.3. FLUSHOMETERS ASSOCIATED WITH TOILETS SHALL USE NO MORE THAN 1.28 GALLONS PER FLUSH. FLUSHOMETERS ASSOCIATED WITH URINALS USE NO MORE THAN 0.5 GALLONS PER FLUSH. BOTH FLUSHOMETERS ABOVE SHALL MEET PERFORMANCE STANDARDS BY ANSI A112.19.2 H4S CODE, SECTION 17921.3(B). SINK FAUCET SHALL USE NO MORE THAN 1.8 GPM MEASURED AT 60 PSI.
- WHEN FIXTURES REQUIRE WALL CARRIERS, THEY SHALL BE SUPPLIED BY CONTRACTOR.
- NON-REMOVABLE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED ON ALL HOSE BIBBS AND POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS. CPC 603.5.7.
- UNLESS SPECIFIED IN THE ROMTEC SUBMITTAL, ROMTEC DOES NOT SUPPLY INSULATION OR "FREEZE PROTECTION" FOR PLUMBING. "THE OWNER MAY NEED TO WINTERIZE THEIR BUILDING."

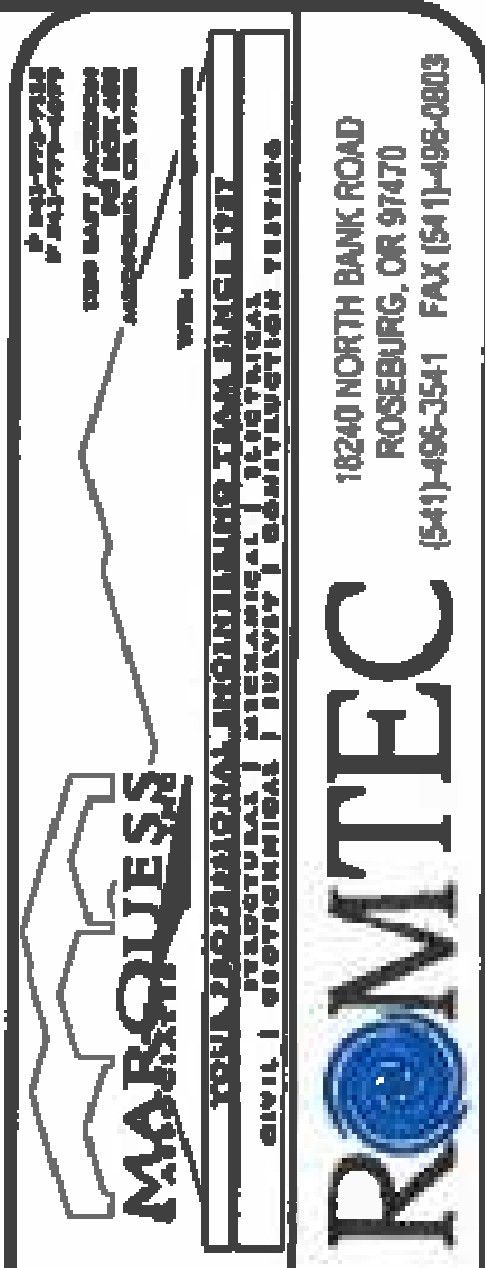
Applicable Code: 2022 CBC
Piping, Ductwork, and Electrical Distribution System Bracing Note
 Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2022 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.
 The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., HCAI OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.
 Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):
 MP MD PP E Option 1: Detailed on the approved drawings with project specific notes and details.
 MP MD PP E Option 2: Shall comply with HCAI (OSHPD) Preapproval (OPM #) # _____ as included in these drawings with project-specific notes and details.

*NOTE:
 REFER TO SHEET S8.5 FOR
 STRUCTURAL DETAILS ON INSTALLING
 PLUMBING FIXTURES - WATERCLOSET,
 LAVATORY, DRINKING FOUNTAINS &
 INSTANT WATER HEATER.

Applicable Code: 2022 CBC
MEP Component Anchorage Note
 All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2022 CBC Sections 1617A.1.16 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:
 1. All permanent equipment and components.
 2. Temporary, movable or mobile equipment that is permanently attached (e.g., hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
 3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.
 The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:
 A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
 B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.
 The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

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PROJECT: 2022 SIERRA II COMPACT 6-8 1/4 MECH RM
 PLAN SET: NES01
 DATE: 11/01/2023
 REVISIONS:
 3 02-15-2024 CR
 5 08-14-2024 CR
 DRAWN BY: CR
 SHEET NO. P1



16240 NORTH BANK ROAD
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 (541)496-3511 FAX (501)496-0803

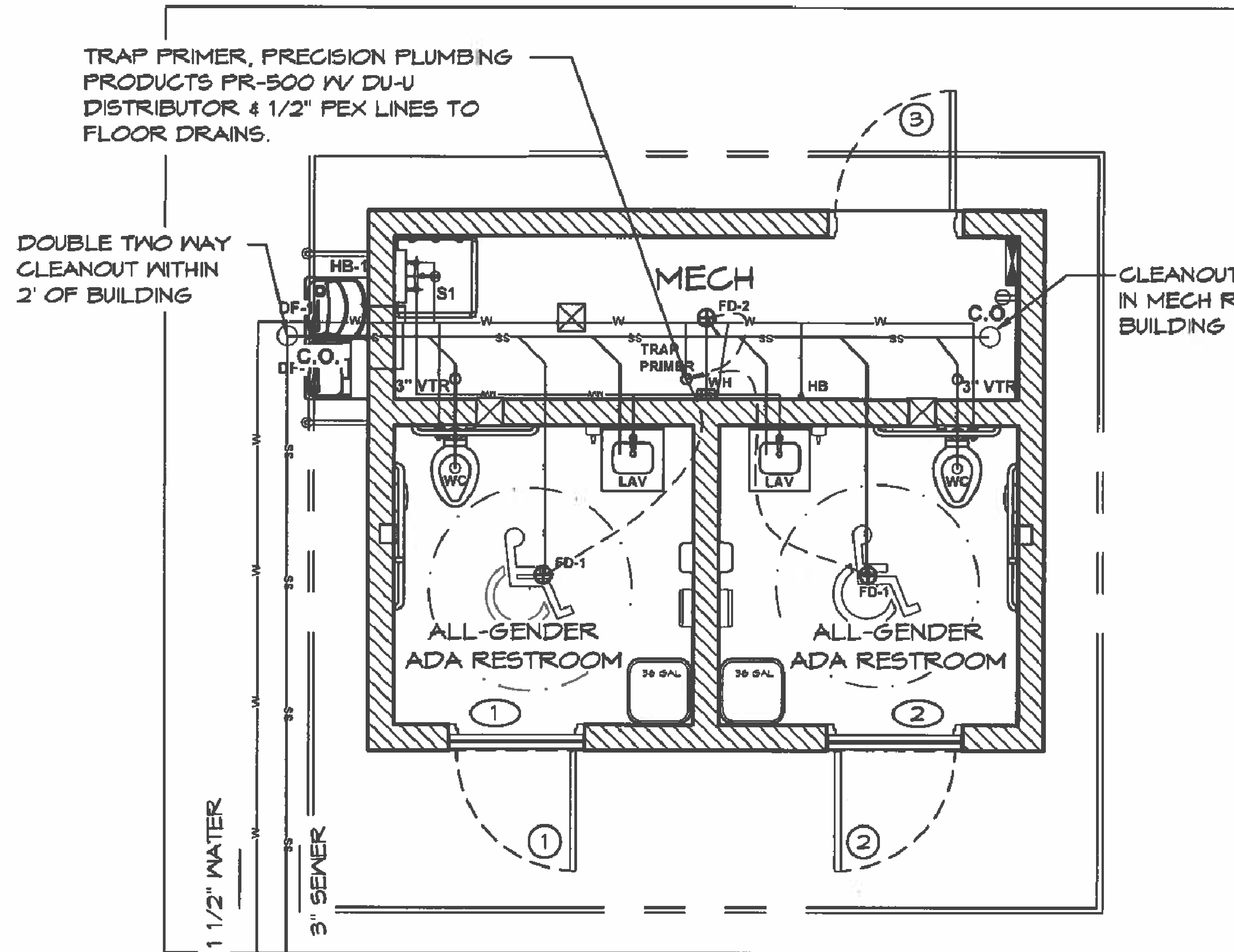
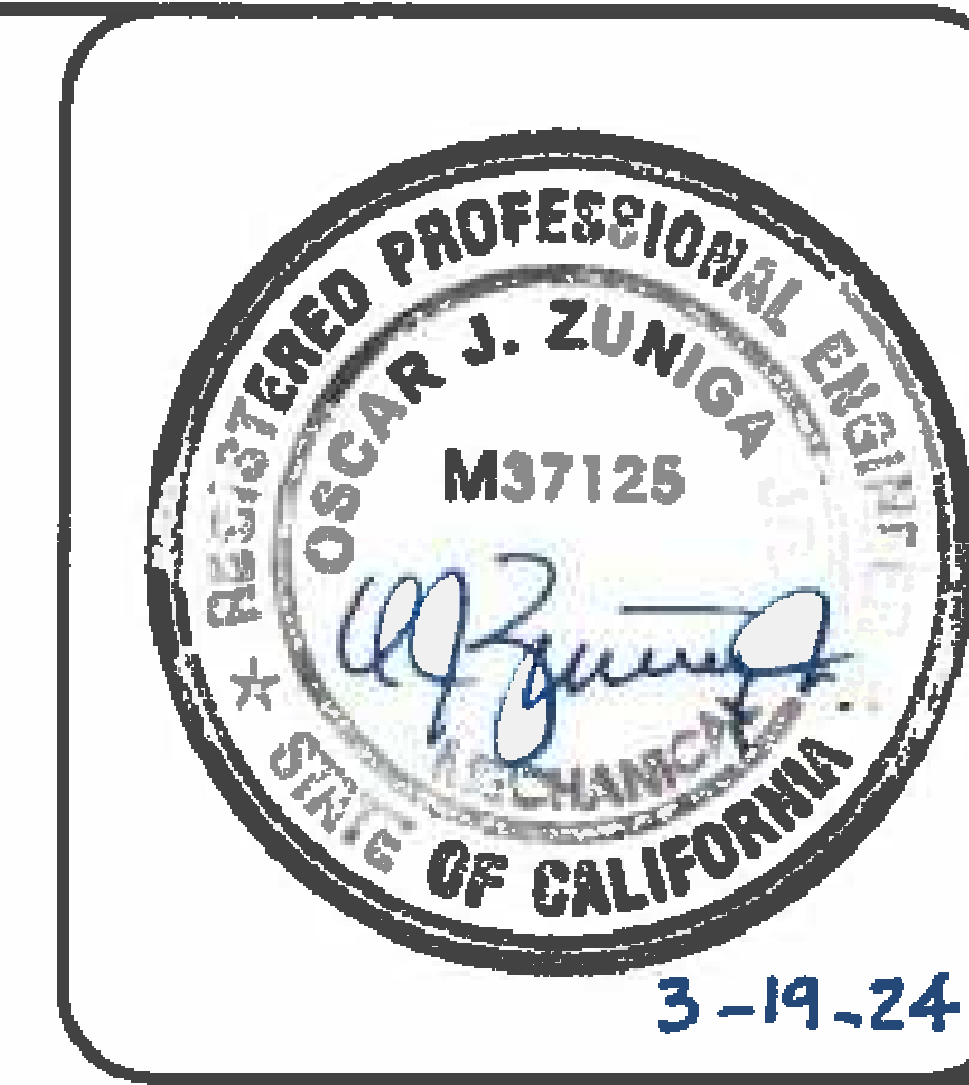
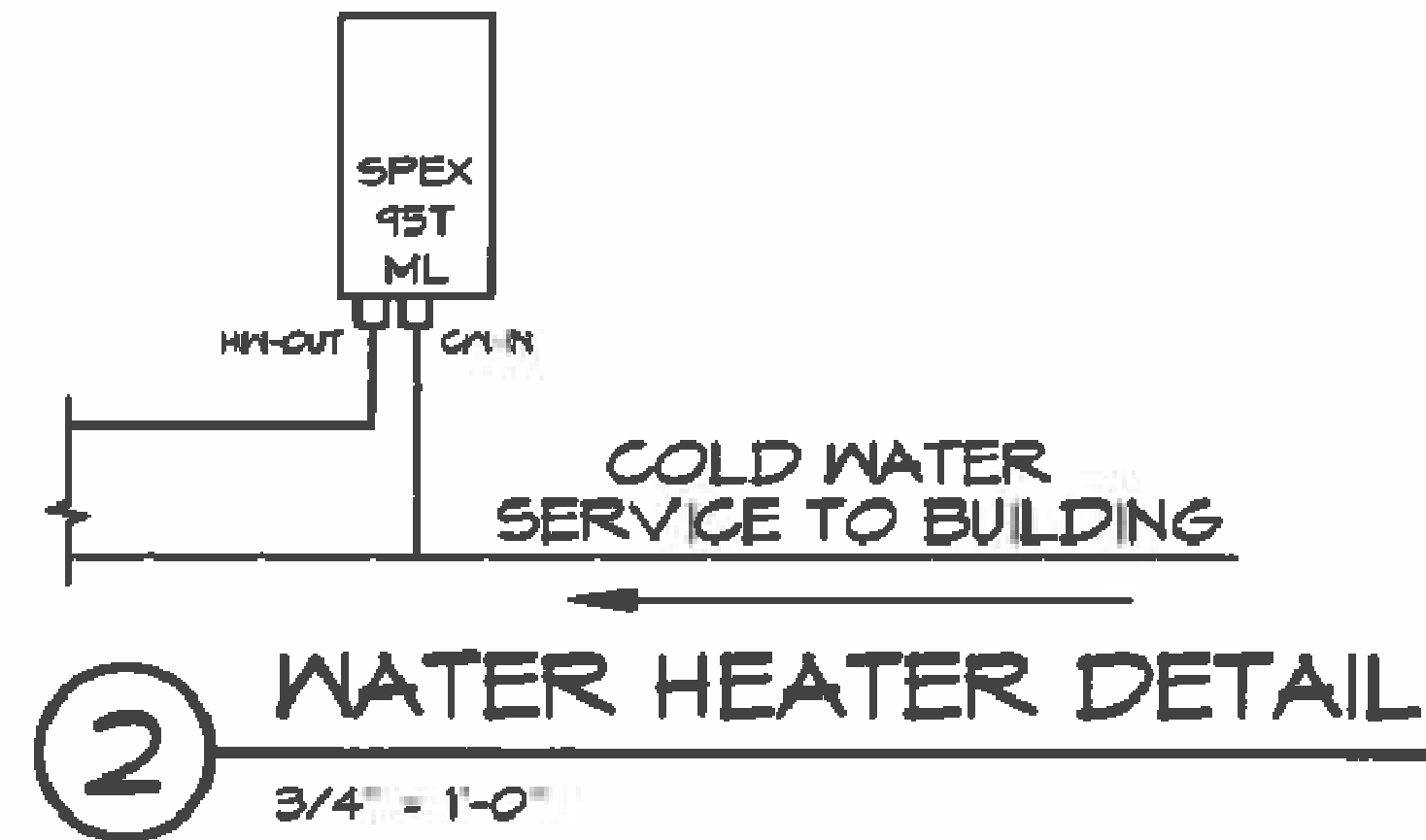
NOTE:
FIXTURES ARE SYMBOLIC ONLY
REFER TO SPECIFICATIONS AND
PRODUCT LITERATURE FOR
INSTALLATION DETAILS

WATER-PLUMBING LEGEND

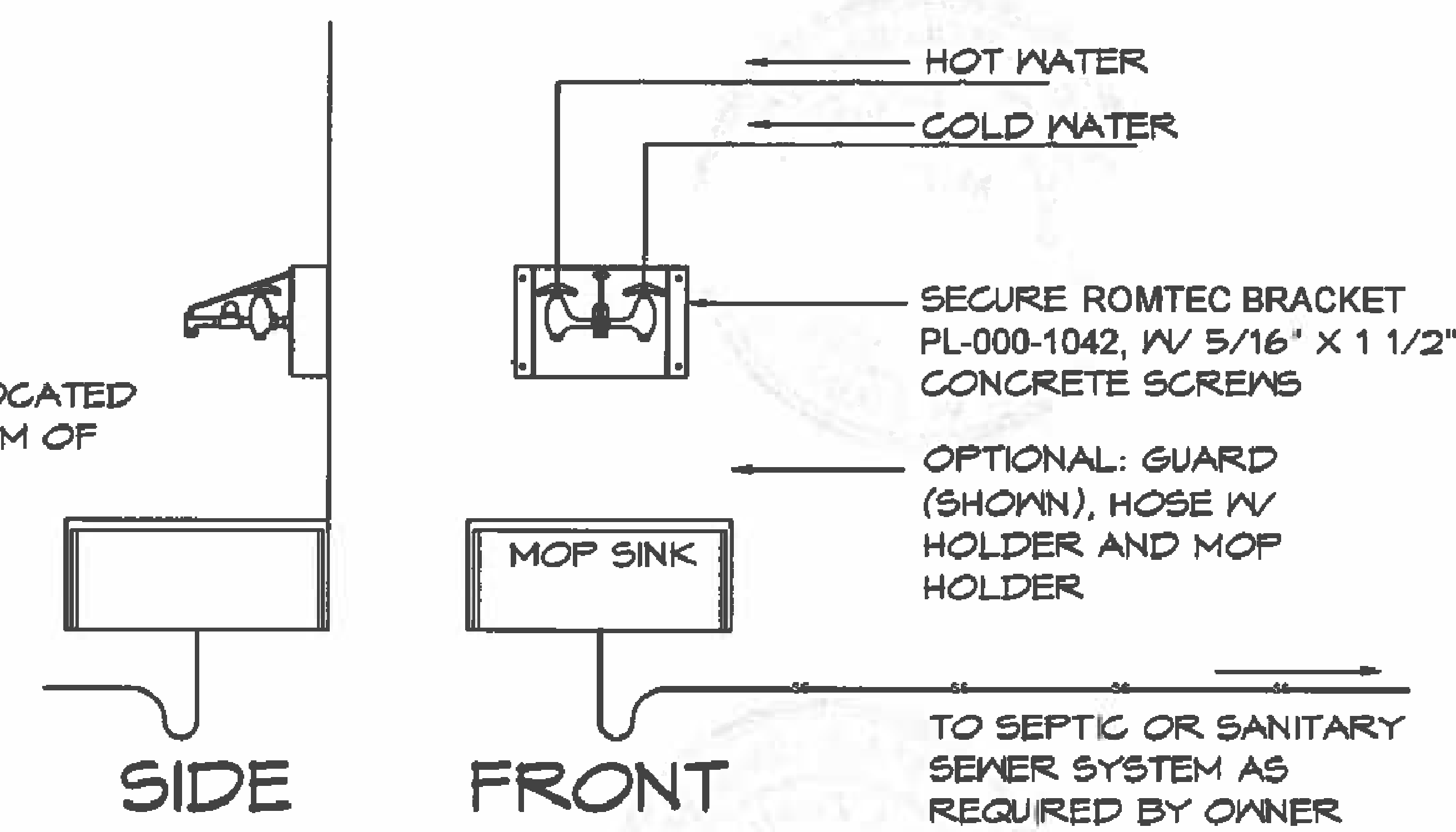
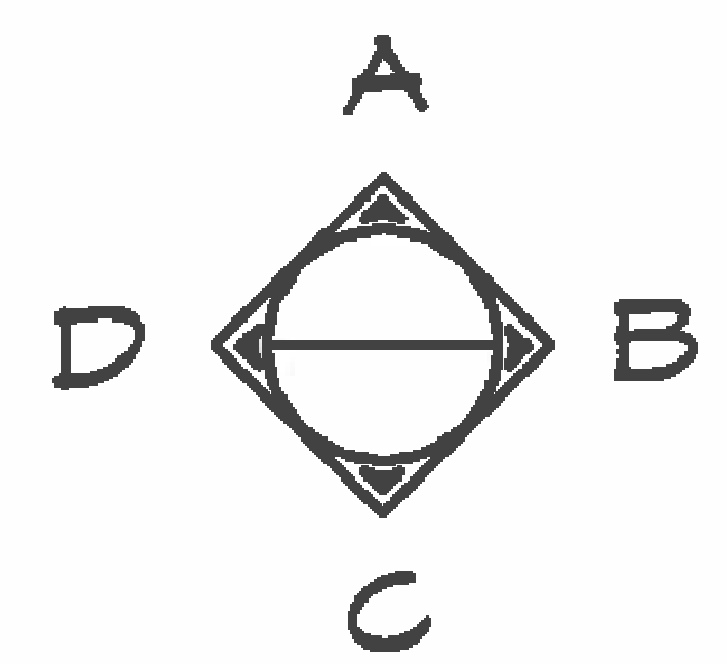
- W — COLD WATER
- MW — MIXED WATER

SEWER-PLUMBING LEGEND

- SS — SANITARY SEWER
- V — VENT LINE



1 PLUMBING PLAN
SCALE: 1/4" = 1'-0"



3 24" x 24" MOP SINK
SCALE: 1/2" = 1'-0"

*REFER TO THE FIXTURE CUT SHEET FOR ROUGH-IN MEASUREMENTS

CPC NOTES

- NOTES:
1. WATER PIPE SIZE AND PRESSURE REQUIREMENTS MUST BE CONFIRMED BY PLUMBING CONTRACTOR BASED ON LOCAL SUPPLY.
 2. FIXTURE & FIXTURE CONNECTIONS ARE SYMBOLIC IN NATURE ONLY. REFER TO MANUFACTURER LITERATURE FOR EXACT FIXTURE SPECIFICATIONS.
 3. ALL SANITARY, DRAINAGE, WASTE, AND VENT LINES SCHEDULE 40 PVC OR ABS.
 4. ALL WATER LINES SHALL BE COPPER OR PER LOCAL CODE. NO JOINTS IN OR UNDER THE SLAB.
 5. WATER PIPE SIZING IS A MINIMUM SUGGESTION. PLUMBING CONTRACTOR WILL MAKE THE FINAL DETERMINATION.
 7. ALL FLOOR SINKS AND DRAINS SHALL HAVE TRAP PRIMERS AS NOTED IN PLANS, PER CPC 1007.0

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PROJECT: 2022 SIERRA II COMPACT 16-8 W/ MECH RM
WEST CAMPUS SACRAMENTO, CALIFORNIA
 SHEET TITLE: PLUMBING PLAN
 PLAN SET: WES01
 DATE: 11/01/2023
 REVISIONS:
 REV. DATE BY
 3 02-15-2024 CR
 DRAWN BY: CR

SHEET NO. **P2**

MINIMUM VENTILATION RATES:

PUBLIC SPACES

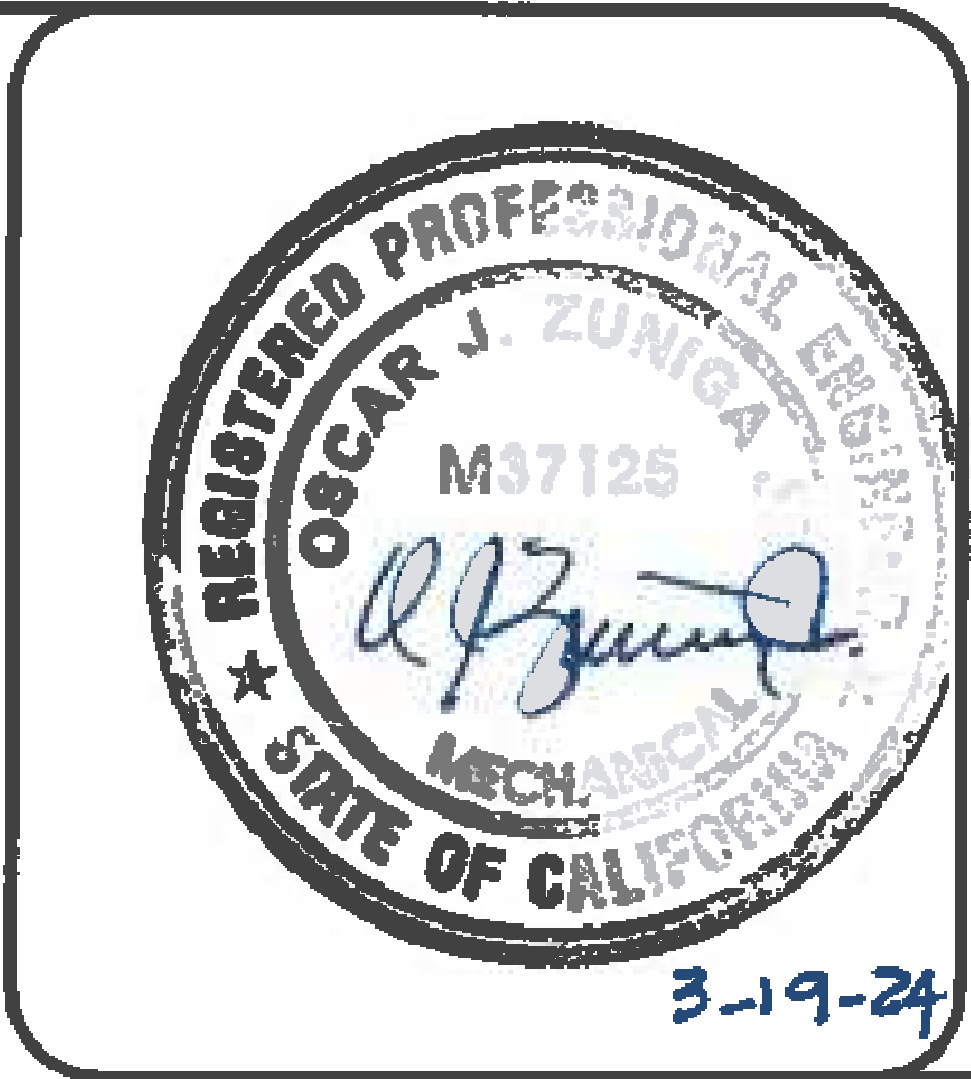
TOILET ROOMS (PER WC OR UR)
 EXHAUST AIRFLOW RATE
 70 CFM - OPERATES INTERMITTENTLY
 MECH ROOM (62 FT²)
 EXHAUST AIRFLOW RATE
 1 CFM - PER SQ.FT

MECHANICAL EXHAUST SYSTEM SHALL
 BE INSTALLED PER INSTALL
 INSTRUCTIONS & DETAILS IN THE:
 "FINAL"
 ROMTEC SCOPE OF SUPPLY AND
 DESIGN SUBMITTAL

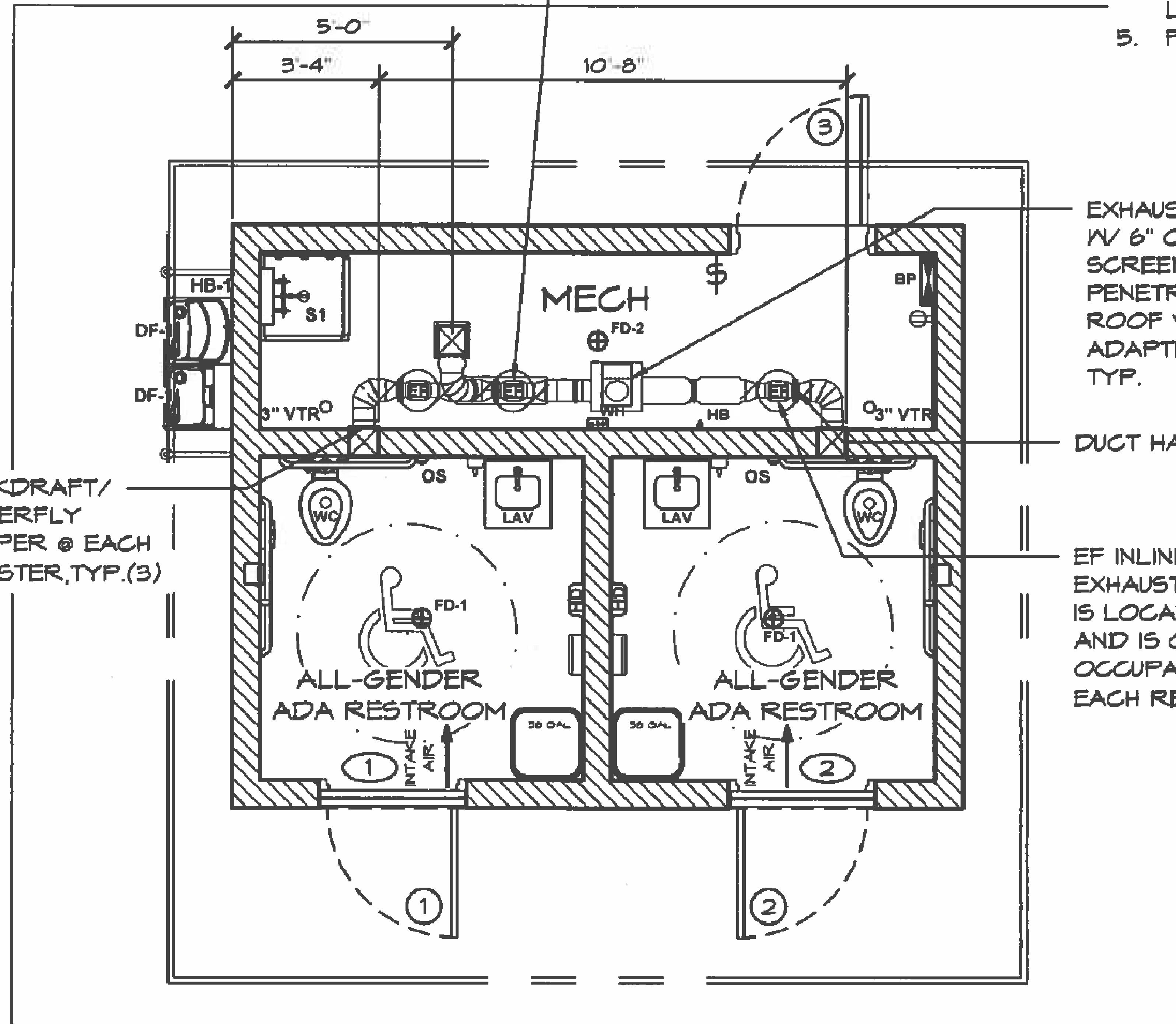
NOTE:
 REFER TO INTERIOR ELEVATIONS
 ON SHEET A1.4 FOR LOCATIONS
 OF WALL VENT REGISTERS.

NOTES:

- EXHAUST FANS AND ALL DUCTING TO BE MOUNTED USING DUCT HANGERS (SWIVEL HEAD SCREW HANGER, 3/8"Ø THREADED ROD, ROUND STRAP BRACKET & GALV. DURO STRAP 1" - 226A) OR EQUIVALENT PER DIRECTIONS FURNISHED BY MANUFACTURE, IN ACCORDANCE WITH THE MECHANICAL CODE AND SMACNA STANDARDS.
- ALL DUCTWORK: RIGID DUCT W/ R8.3 INSULATED WRAP (UL LISTED CLASS 1 AIR DUCT). PROVIDE SHEETMETAL FITTINGS AT MAIN DUCT RUNOUTS AND CONNECTIONS WITH A MINIMUM OF THREE SHEETMETAL SCREWS AND TAPED TO PROVIDE AN AIRTIGHT SEAL. SUPPORT FLEX AS DIRECTED BY MANUFACTURER, NOT TO EXCEED 4'-0".
- THE DUCT DISCHARGES THRU A ROOF CAP W/ DAMPER, SCREEN AND COLLAR.
- FANS ARE CONTROLLED BY OCCUPANCY SENSORS LOCATED IN EACH RESTROOM.
- FAN IN MECH ROOM IS CONTROLLED BY A SWITCH.



EF INLINE FAN (2 lbs.) TO EXHAUST MECH IS LOCATED WITHIN THE SAME SPACE AND IS CONTROLLED BY THE SWITCH NEXT TO THE DOOR, TYP.



EXHAUST FAN ROOF CAP W/ 6" COLLAR & BIRD SCREEN. SEAL PENETRATION W/ METAL ROOF VENT SEALING ADAPTER MULTI-FLASH, TYP.

DUCT HANGER, TYP. (5)

EF INLINE FAN (2 lbs.) TO EXHAUST EACH RESTROOM IS LOCATED IN MECH ROOM AND IS CONTROLLED BY OCCUPANCY SENSOR IN EACH RESTROOM, TYP. (2)

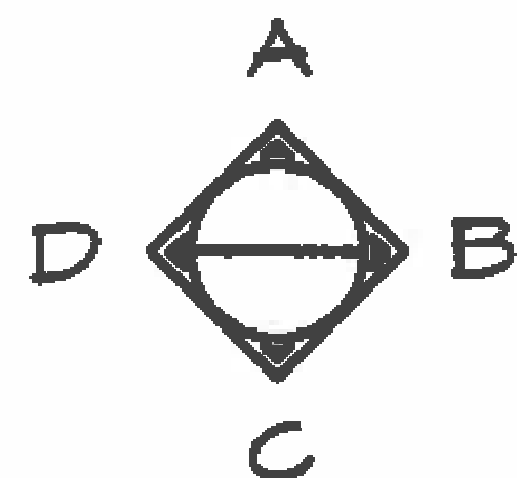
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Applicable Code: 2022 CBC
MEP Component Anchorage Note
 All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2022 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:
 1. All permanent equipment and components.
 2. Temporary, movable or mobile equipment that is permanently attached (e.g., hard wired) to the building utility services such as electricity, gas or water. Permanently attached shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
 3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.
 The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:
 A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
 B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.
 The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

1

MECHANICAL PLAN

SCALE: 1/4" = 1'-0"



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PROJECT: 2022 SIERRA II COMPACT 16-8' W/ MECH RM
 WEST CAMPUS
 SACRAMENTO, CALIFORNIA
 SHEET TITLE: MECHANICAL PLAN
 PLAN SET# MES01
 DATE 11/01/2023
 REVISIONS

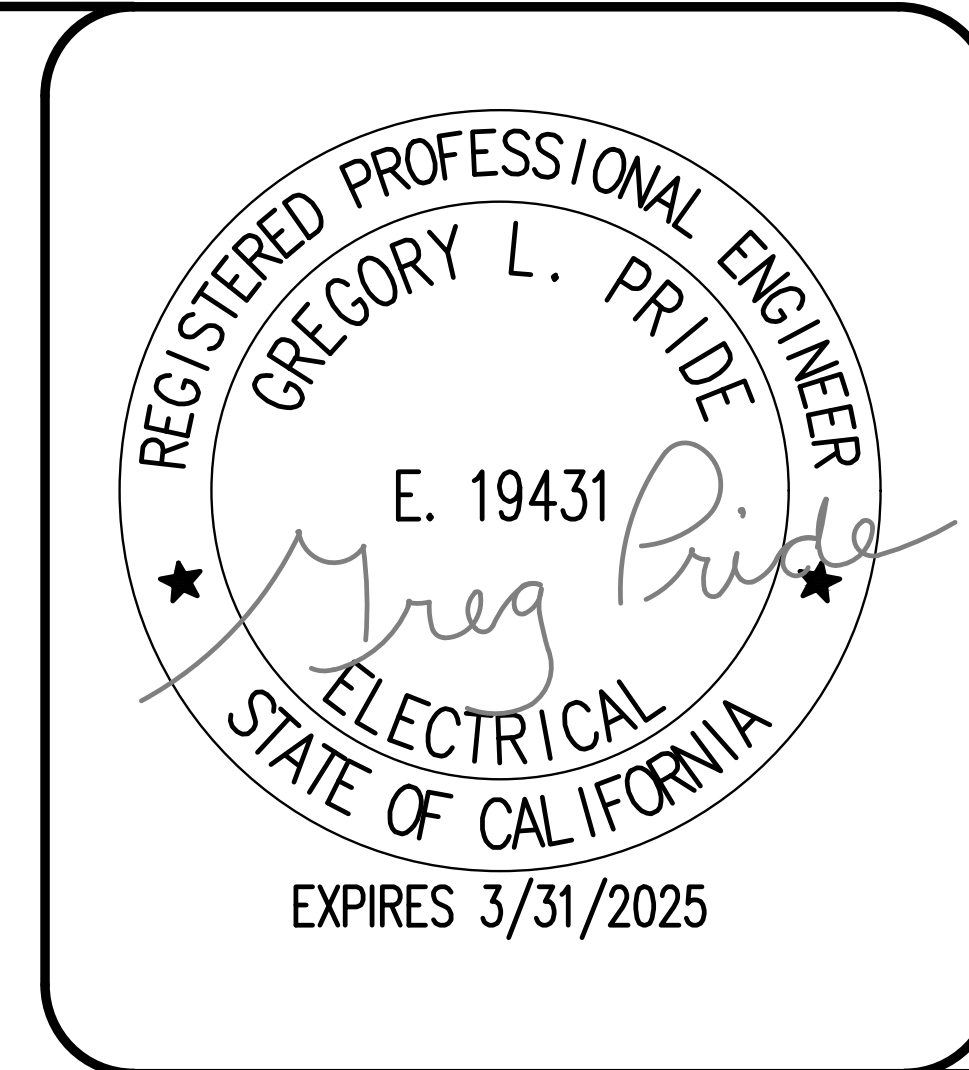
REV	DATE	BY
4	02-21-2024	CR
5	03-14-2024	CR

 DRAWN BY CR

SHEET NO. M1

GENERAL ELECTRICAL NOTES:

1. ALL WORK SHALL COMPLY WITH 2022 CALIFORNIA ELECTRICAL CODE AND LOCAL CODES.
2. OWNER TO PROVIDE TEMPORARY POWER AS REQUIRED DURING COURSE OF CONSTRUCTION.
3. ELECTRICAL SERVICE EQUIPMENT SUPPLIED BY OTHERS UNDER SEPARATE SUBMITTAL.
4. THE AIC VALUES SHOWN ON THESE ROMTEC PLANS ARE TO BE MADE CLEARLY AVAILABLE TO THE ELECTRICAL ENGINEER OF RECORD THAT WILL DESIGN THE MAIN SERVICE.
5. THE INSTALLER SHALL FURNISH & INSTALL SPECIFICATION GRADE CIRCUIT BREAKERS, WIRING, CONDUIT, SWITCHES AND GFI RECEPTACLES THROUGHOUT. INTERIOR RECEPTACLES & SWITCHES SHALL HAVE STAINLESS STEEL COVERPLATES AND EXTERIOR RECEPTACLES SHALL BE INSTALLED WITH A WEATHERPROOF IN USE COVER.
6. ELECTRICAL CONDUIT IS TO BE RUN WITHIN THE WALL WHEN POSSIBLE, EXCEPT IN THE MECHANICAL ROOM.
7. FOR MECHANICAL ROOM ALL EXPOSED CONDUIT IS TO BE SURFACE MOUNTED AND RUN TIGHT TO CEILING AS REQUIRED.
8. COORDINATE AC OUTLET HEIGHTS WITH OWNER PRIOR TO ROUGH-IN.



ELECTRICAL SCHEDULE & SYMBOL LEGEND:

QTY	SYMBOL	DESCRIPTION
1		200 AMP BREAKER PANEL (REFER TO STRUCTURAL SHEET S8.5 FOR INSTALLATION DETAILS)
PER PLAN		HOME RUN TO BREAKER PANEL
PER PLAN		110 VAC DUPLEX RECEPTACLE, GROUND FAULT PROTECTED MOUNTED MIN OF 15" TO MAX OF 48" ABOVE THE FLOOR CONFIRM EXACT LOCATION & HEIGHT WITH OWNER OR OWNERS REPRESENTATIVE.
1		SWITCH, SINGLE POLE MOUNTED A MAX OF 48" ABOVE THE FLOOR
4		LIGHT FIXTURE, WALL MOUNT (INSTALL PER MANUFACTURES INSTRUCTIONS) UL LISTED TO U.S. SAFETY STANDARDS FOR ALL WET LOCATIONS WALL MOUNT, LED DOWN LIGHT, LITHONIA OLLND: (9W) (.08A)
2		LIGHT FIXTURE, WALL MOUNT (INSTALL PER MANUFACTURES INSTRUCTIONS) UL LISTED TO U.S. SAFETY STANDARDS FOR ALL WET LOCATIONS WALL MOUNT LED UP/DOWN LIGHT LITHONIA OLLNU: (14W) (.12A)
1		48" LED VAPOR TIGHT CEILING MOUNT LIGHT (INSTALL PER MANUFACTURES INSTRUCTIONS) LITHONIA CSVTL48 5000LM 40K 80CRI 4,298LM 40K: (35.3 W) (.2942 A)
1		PHOTO CELL, w/ WEATHER PROOF COVER (INSTALL PER MANUFACTURES INSTRUCTIONS)
2		OCCUPANCY SENSOR (INSTALL PER MANUFACTURES INSTRUCTIONS) WALL MOUNT ACUITY SENSOR SWITCH WVR PDT 16 WIDE VIEW SENSOR: 2 POLE (120/277,347 VAC 13 AMPS/POLE 347 VAC MUST BE SAME PHASE)
2		HAND DRYER (INSTALL PER MANUFACTURES INSTRUCTIONS) WALL MOUNT, THINAIR TA-SB: (915W) (7.7A)
1		DRINKING FOUNTAIN w/ BOTTLE FILLER (REFER TO STRUCTURAL SHEET S8.5 FOR INSTALLATION DETAILS) ELKAY: VRCTLDDWSK - (15W) (1.0A)
1		INSTANT WATER HEATER (REFER TO STRUCTURAL SHEET S8.5 FOR INSTALLATION DETAILS) EEMAX, SPEX95TML: 1 GPM @ 65°F (9500W) (40A) 240V
3		INLINE DUCT EXHAUST FAN SYSTEM (REFER TO SHEET M1 FOR INSTALLATION DETAILS) S&P, TD-100 - 4": (26W) (0.22A)

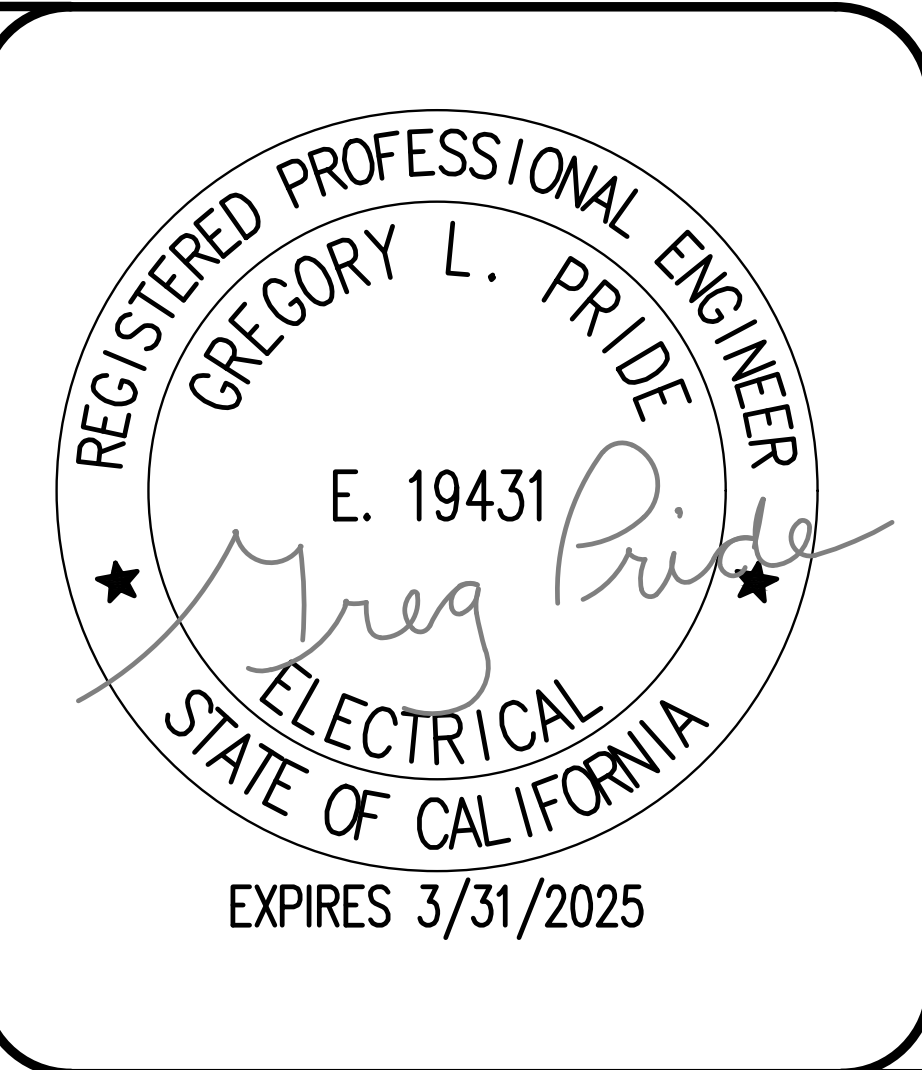
Applicable Code: 2022 CBC
Piping, Ductwork, and Electrical Distribution System Bracing Note
 Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2022 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.
 The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., HCAI OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.
 Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):
 MP MD PP E Option 1: Detailed on the approved drawings with project specific notes and details.
 MP MD PP E Option 2: Shall comply with HCAI (OSHPD) Preapproval (OPM #) _____, as included in these drawings with project-specific notes and details.

Applicable Code: 2022 CBC
MEP Component Anchorage Note
 All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2022 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:
 1. All permanent equipment and components.
 2. Temporary, movable or mobile equipment that is permanently attached (e.g., hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
 3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.
 The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:
 A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
 B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.
 The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

NOTE:
 REFER TO SHEET S8.5 FOR STRUCTURAL DETAILS ON INSTALLING ELECTRICAL EQUIPMENT AS NOTED PER SCHEDULE.

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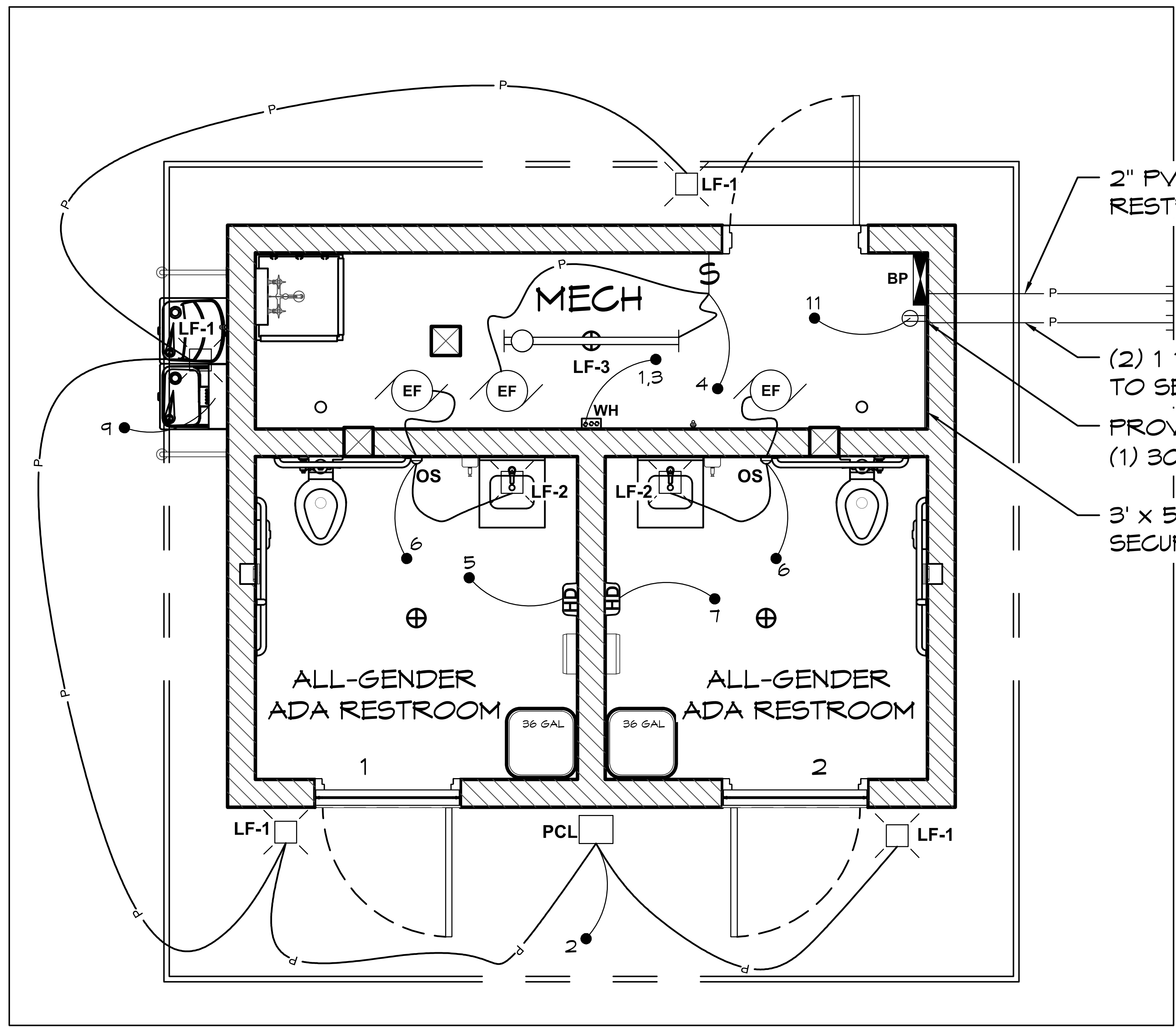
PROJECT: 2022 SIERRA II COMPACT 16'-0" W/ MECH RM
 WEST CAMPUS SACRAMENTO, CALIFORNIA
 SHEET TITLE: ELECTRICAL SCHEDULE
 PLAN SET# NES01
 DATE: 11/01/2023
 REVISIONS
 REV. DATE BY
 3 02-15-2024 CR
 5 03-14-2024 CR
 DRAWN BY: CR



NOTE:
SEE SHEETS A1.4, A2.1, & A2.2
FOR LOCATIONS - HEIGHTS OF
ELECTRICAL FIXTURES.

NOTE: ELECTRICAL PANEL MAY BE
RELOCATED AT THE DISCRETION OF THE
INSTALLER, PANEL MUST MAINTAIN ALL
APPLICABLE CODE CLEARANCES.

ROMTEC HAS DESIGNED THIS ELECTRICAL SYSTEM
TO MEET THE NEEDS OF THIS SPECIFIC FACILITY.
SITE DESIGN AND ENGINEERING BY OTHERS.
OWNER IS RESPONSIBLE TO PROVIDE ALL SERVICE
AND/OR UTILITY ENTRANCE DESIGN. FIELD VERIFY
THAT SERVICE CONDUCTOR SIZE IS ADEQUATE FOR
VOLTAGE DROP. ANY ADDITIONAL POWER OR
LIGHTING LOADS NOT SHOWN ON THESE PLANS
SHALL BE ENGINEERED BY OTHERS.



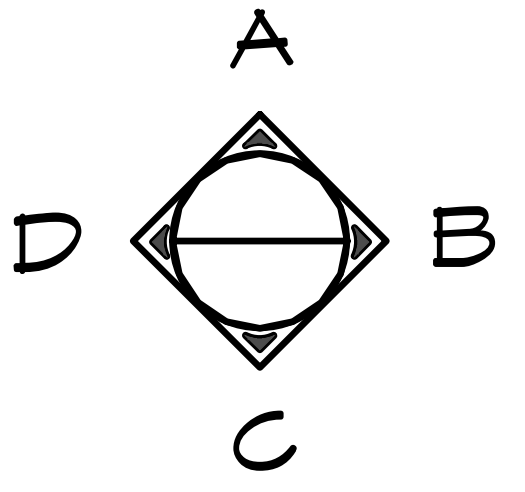
2" PVC CONDUIT - FOR INCOMING POWER TO
RESTROOM, STUB CONDUIT 5' FROM WALL

(2) 1 1/4" PVC CONDUITS - FOR OUTGOING POWER
TO SECURITY LIGHTS, STUB CONDUITS 5' FROM WALL

PROVIDE (2) 20A/1P &
(1) 30A/1P FOR SECURITY LIGHTS

3' x 5' x 3/4" PLYWOOD FOR
SECURITY LIGHTING CONTROLLER

1 ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
WEST CAMPUS
SACRAMENTO, CALIFORNIA
SHEET TITLE: ELECTRICAL PLAN

PLAN SET#
NESO1

DATE:
11/01/2023

REVISIONS

REV.	DATE	BY
3	02-15-2024	CR

DRAWN BY:
CR

DOUBLE 'E'
ENGINEERING, LLC
Myrtle Point, Oregon
www.ee-engineering.com

18240 NORTH BANK ROAD
ROSEBURG, OR 97470
(541) 496-3541 FAX (541) 496-0803

ROMTEC

SERVICE UTILITY EQUIPMENT BY OTHERS

BREAKER PANEL

200 A
25k AIC
120/240 VOLT

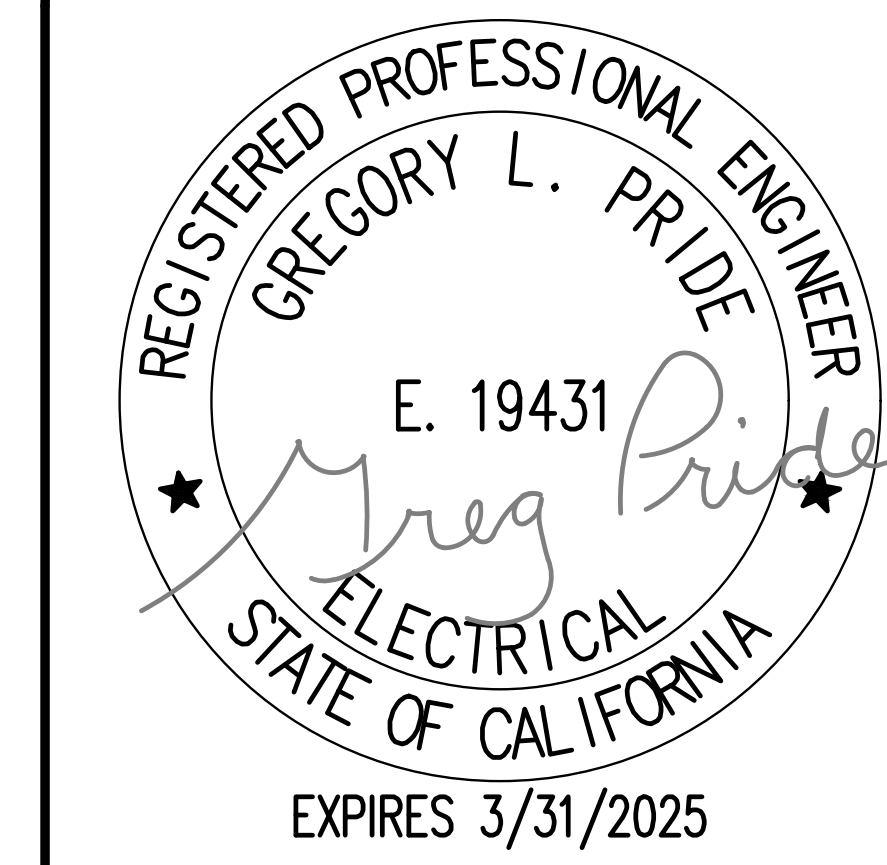
SEE
DETAIL 3/E3

THE AIC VALUES SHOWN ON THESE ROMTEC PLANS ARE TO BE MADE CLEARLY AVAILABLE TO THE ELECTRICAL ENGINEER THAT WILL DESIGN THE ELECTRICAL SERVICE. THIS INFORMATION IS IMPORTANT AND WILL HELP TO ENSURE THE NECESSARY PROTECTION OF THE ELECTRICAL EQUIPMENT PROPOSED BY ROMTEC.

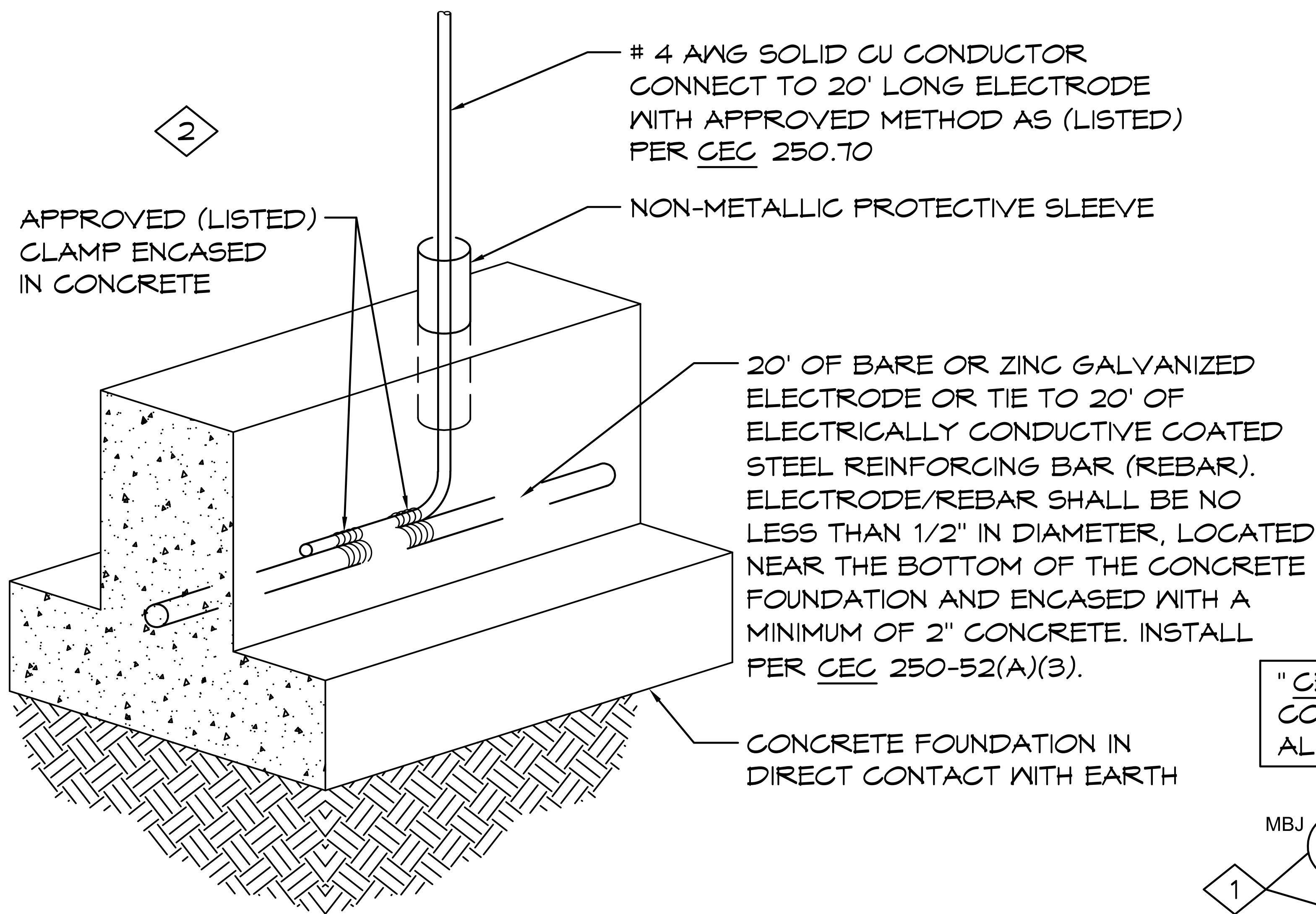
TO UTILITY TRANSFORMER

1 ONE-LINE DIAGRAM

SCALE: NONE



2



3 CONCRETE ENCASED SERVICE GROUND

SCALE: NONE

INDOOR BREAKER PANEL WALL MOUNTED

CONCRETE ENCASED ELECTRODE SEE DETAIL 3/E3

FOOTING FF

8" CMU WALL

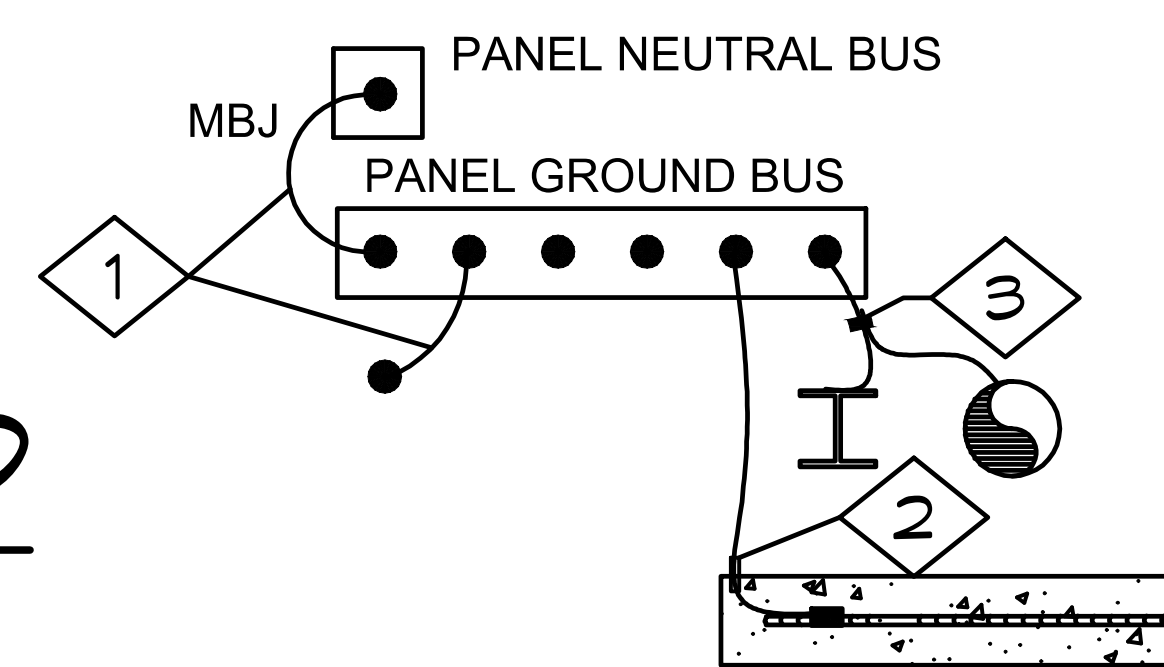
APPROVED CONDUIT

FG UNDERGROUND FROM POWER SOURCE

2 RISER DIAGRAM

SCALE: NONE

"CEC ARTICLE 250 OR LOCAL CODES MAY REQUIRE OR ALLOW ADDITIONAL GROUNDING"



4 GROUNDING/BONDING DETAIL

SCALE: NONE

KEYED NOTES

- 1 #4 CU MAIN BONDING JUMPER AND EQUIPMENT BONDING JUMPER PER CEC 250.28(D), 250.102(C) AND TABLE 250.66. DO NOT BOND THE NEUTRAL TO THE GROUND BUS IF THIS IS NOT A SERVICE ENTRANCE
- 2 #4 CU TO CONCRETE ENCASED ELECTRODE PER CEC 250.52(A)(3), 250.66(B) AND 250.70
- 3 WHERE REQUIRED, BOND PIPING SYSTEMS AND EXPOSED STRUCTURAL STEEL PER CEC 250.104

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

WEST CAMPUS
SACRAMENTO, CALIFORNIA

DOUBLE 'E' ENGINEERING, LLC
Myrtle Point, Oregon
www.ee-engineering.com

ROMTEC
18240 NORTH BANK ROAD
ROSEBURG, OR 97470
(541)496-3541 FAX (541)496-0803

PLAN SET# NES01

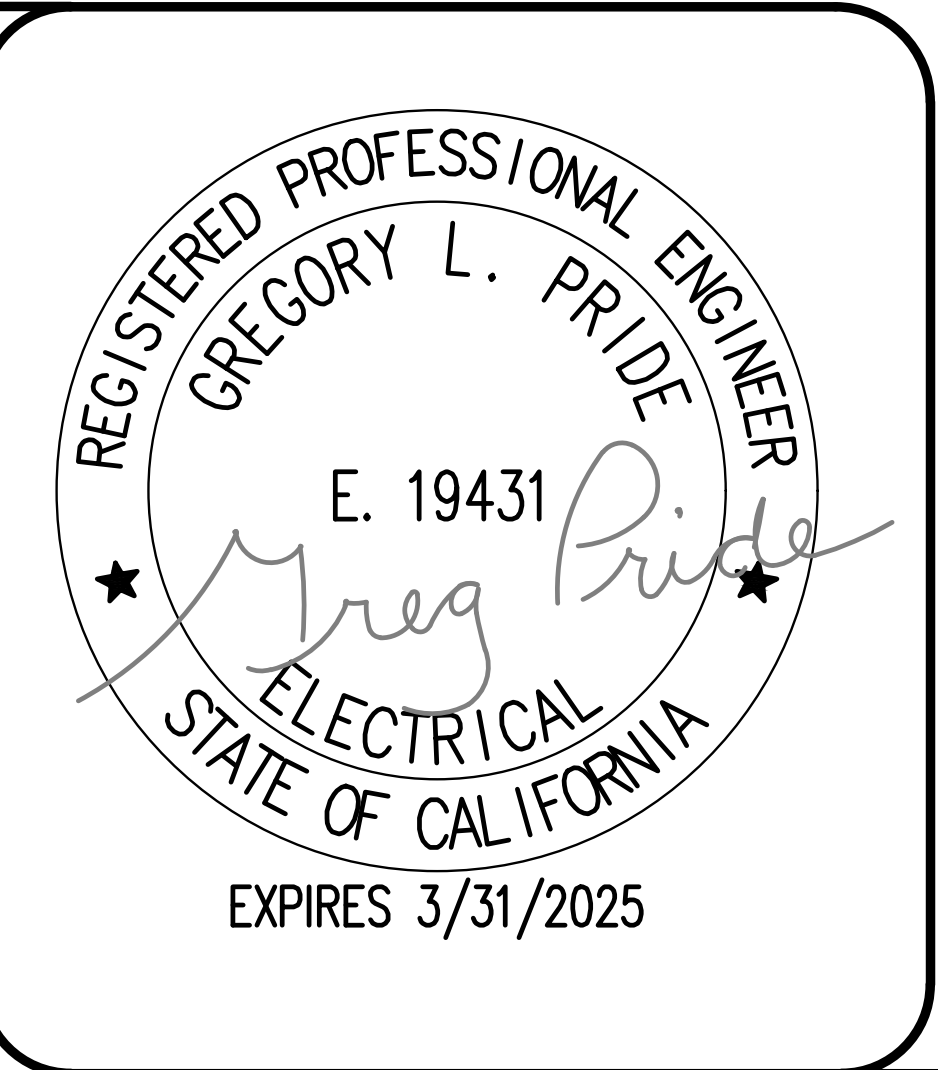
DATE: 11/01/2023

REVISIONS

REV.	DATE	BY
3	02-15-2024	CR

DRAWN BY: CR

SHEET NO. E3



BREAKER PANEL															25K AIC RATING						
200 AMP					MAIN BREAKER					120 / 240 VOLTS					1-PHASE, 3-WIRE						
FEEDER SIZE:					ALUM: 3 #250 PH, #4 GRD, 2" C					USE XHHW-2 CU CONDUCTORS					SURFACE MOUNTED						
ELECTRICAL WIRING: GROUNDED & BOND PER - CEC																					
LOAD DISTRIBUTION		LTG	REC	MOTOR	DATA	HEAT	MISC		PH-A	PH-B	= TOTAL	AMPS		WITH SPARE	25%						
CONNECTED VA		4978	195	0	0	11330	0		6996	9506	= 16503	79		20628	99						
DIVERSITY FACTOR		125%	100%	100%	100%	100%	100%				=										
DIVERSIFIED VA		6222	195	0	0	11330	0		7326	10422	= 17747	87		22184	108						
PL	T	LOAD	VA	HP	PHW	GND	CON	BKR		PH		BKR	CON	GND	PHW	HP	VA	LOAD	T	PL	
1	H	WATER HEATER	4750		8	10	3/4	50	2	A	1	20	1/2	12	12		36	LTS: EXTERIOR	L	2	
3	H		4750							B	1	20	1/2	12	12		61	LTS: MECH	L	4	
5	H	HAND DRYER	915		12	12	1/2	20	1	A	1	20	1/2	12	12		80	LTS: RESTROOMS	L	6	
7	H	HAND DRYER	915		12	12	1/2	20	1	B	1	20	1/2	12	12		1200	SECURITY LIGHTS	L	8	
9	R	DRINKING FOUNTAIN	15		12	12	1/2	20	1	A	1	20	1/2	12	12		1200	SECURITY LIGHTS	L	10	
11	R	RECEPTACLE	180		12	12	1/2	20	1	B	1	30	1/2	10	10		2400	SECURITY LIGHTS	L	12	
13										A											14
15										B											16
17										A											18
19										B											20
21										A											22
23										B											24
25										A											26
27										B											28
29										A											30

PLEASE NOTE THAT THE VALUES FOR THE SECURITY LIGHTS ARE AN ESTIMATE. SEE PROJECT ELECTRICAL ENGINEERING PLANS FOR FINAL LOADS.

1 ELECTRICAL PANEL SCHEDULE
SCALE: NONE

ROMTEC HAS DESIGNED THIS ELECTRICAL SYSTEM TO MEET THE NEEDS OF THIS SPECIFIC FACILITY. SITE DESIGN AND ENGINEERING BY OTHERS. OWNER IS RESPONSIBLE TO PROVIDE ALL SERVICE AND/OR UTILITY ENTRANCE DESIGN. FIELD VERIFY THAT SERVICE CONDUCTOR SIZE IS ADEQUATE FOR VOLTAGE DROP. ANY ADDITIONAL POWER OR LIGHTING LOADS NOT SHOWN ON THESE PLANS SHALL BE ENGINEERED BY OTHERS.

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

WEST CAMPUS
SACRAMENTO, CALIFORNIA

SHEET TITLE: ELECTRICAL PANEL SCHEDULE

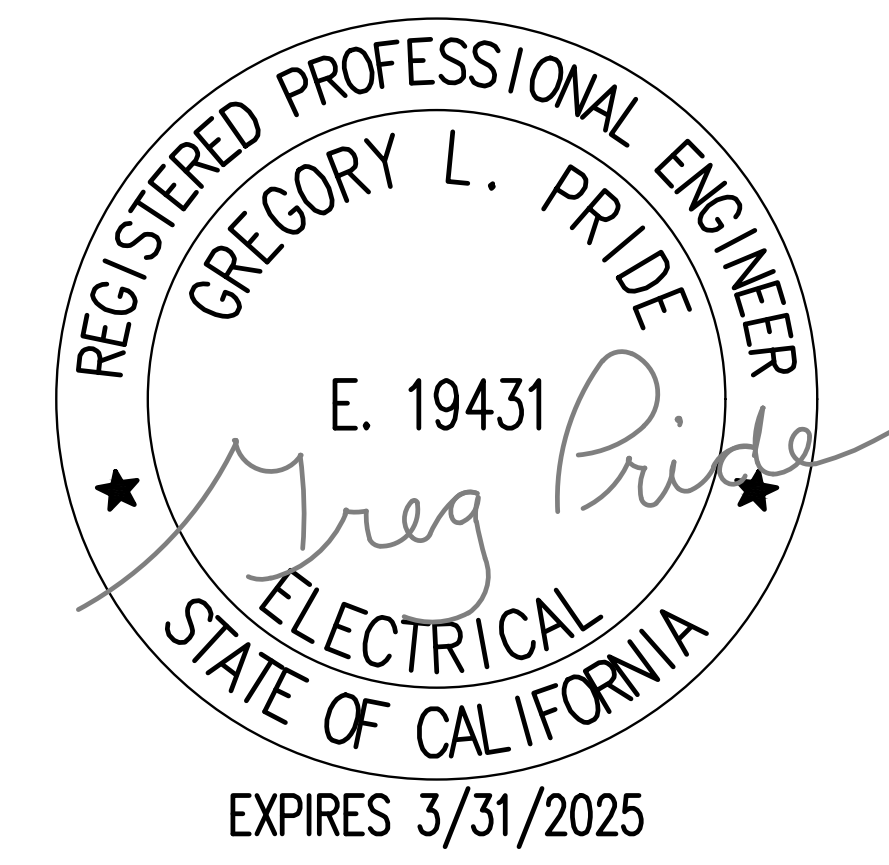
PLAN SET# NESO1

DATE: 11/01/2023

REVISIONS

REV.	DATE	BY
1	11-07-2023	CR
3	02-15-2024	CR

DRAWN BY: CR



BUILDING ENERGY ANALYSIS REPORT

PROJECT:
 2311-012 West Campus
 5022 58th St,
 Sacramento, CA 95820

Project Designer:
 Double 'E' Engineering, LLC
 315 Ash Street
 Myrtle Point, Oregon 97458
 541-294-0587

Report Prepared by:
 Matthew Weldon
 Regerfour LLC dba 5 Star Energy
 940 Merchant St.
 Redding, Ca 96002
 530-275-3350

Job Number:
 2311-012

Date:
 2/28/2024

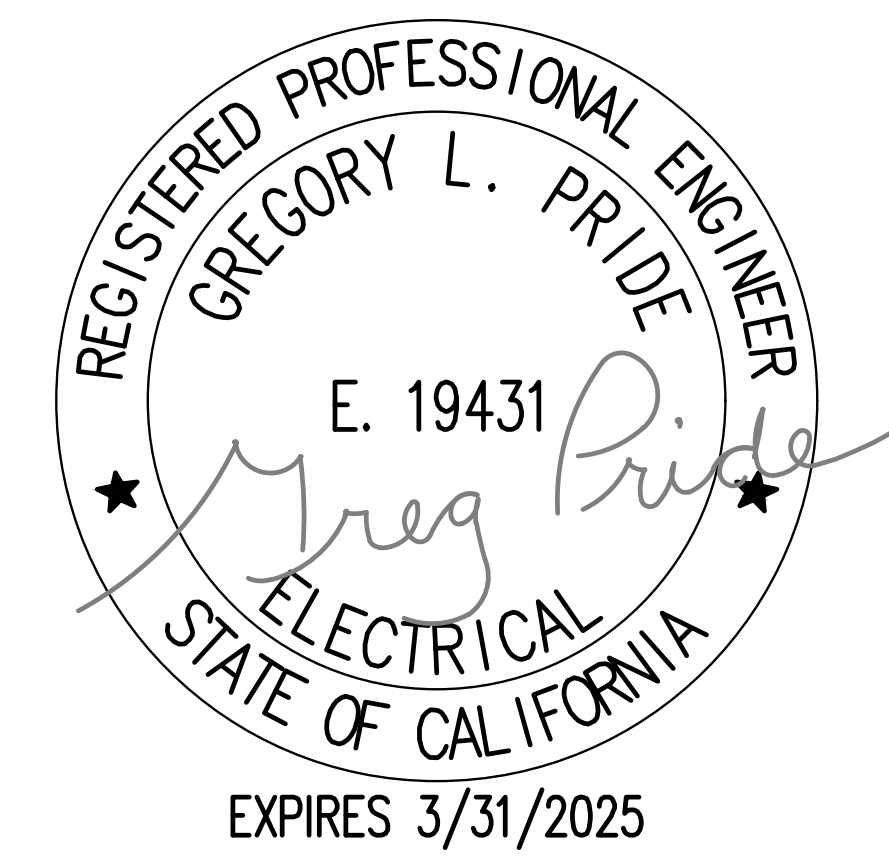
The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.
 This program developed by EnergySoft, LLC - www.energysoft.com.

TABLE OF CONTENTS

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Form NRCC-LTI-E Indoor Lighting	3
Form NRCC-LTO-E Outdoor Lighting	10

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 DOUBLE 'E' ENGINEERING, LLC <small>Myrtle Point, Oregon www.ee-engineering.com</small>	 ROMTEC <small>18240 NORTH BANK ROAD ROSEBURG, OR 97470 (541) 496-3541 FAX (541) 496-0803</small>	
PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM		
WEST CAMPUS SACRAMENTO, CALIFORNIA		
SHEET TITLE: TITLE 24 DOCUMENTS		
PLAN SET#	NES01	
DATE:	11/01/2023	
REVISIONS		
REV.	DATE:	BY
4	02-27-2024	CR
DRAWN BY:		CR



CERTIFICATE OF COMPLIANCE NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: 2311-012 West Campus Report Page: (Page 1 of 7)
 Project Address: 5022 58th St, Date Prepared: 2/28/2024

A. GENERAL INFORMATION

01 Project Location (city)	Sacramento	04 Total Conditioned Floor Area (ft ²)	0
02 Climate Zone	12	05 Total Unconditioned Floor Area (ft ²)	222
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1

• Support Areas

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft ²)	Calculation Method	Area (ft ²)
<input checked="" type="checkbox"/> New Lighting System	Area Category Method	0	Area Category Method	222
<input type="checkbox"/> New Lighting System - Parking Garage				
Total Area of Work (ft²)		0		222

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
 Project Name: 2311-012 West Campus Report Page: (Page 2 of 7)
 Date Prepared: 2/28/2024

C. COMPLIANCE RESULTS

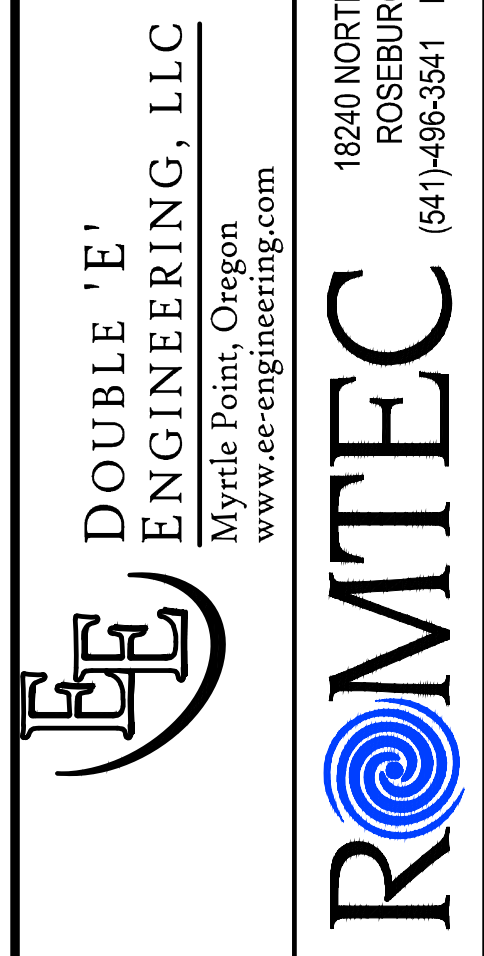
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Total Allowed (Watts)	Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results					
	01	02	03	04	05		06	07	08						
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)				Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)			Total Adjusted (Watts) *Includes Adjustments				
	(See Table I)	(See Table I)	(See Table J)	(See Table K)	=	144	≥	(See Table F)	(See Table P)	=	63	0	=	63	05 must be >= 08 140.6 / 170.2(e)
Conditioned					=		≥			=					
Unconditioned		144.3	0		=	144	≥	63	0	=	63	0	=	63	COMPLIES
Controls Compliance (See Table H for Details)											COMPLIES				
Rated Power Reduction Compliance (See Table Q for Details)											COMPLIES				

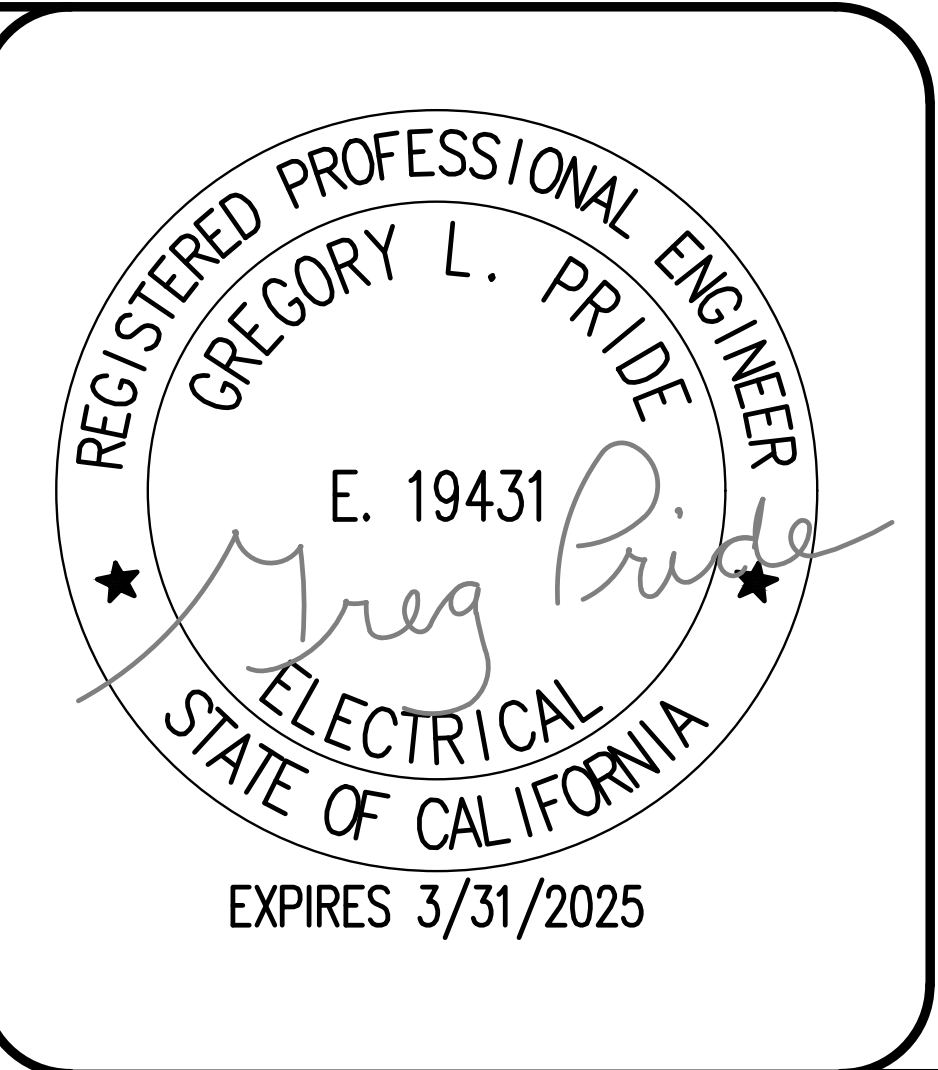
D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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 PROJECT: 2022 SIERRA II COMPACT 16'-0" W/ MECH RM
 WEST CAMPUS SACRAMENTO, CALIFORNIA
 SHEET TITLE: TITLE 24 DOCUMENTS
 PLAN SET# NES01
 DATE: 11/01/2023
 REVISIONS
 REV. DATE BY
 4 02-27-2024 CR
 DRAWN BY: CR
 SHEET NO. E6



18240 NORTH BANK ROAD
 ROSEBURG, OR 97470
 (541)496-3541 FAX (541)496-0803



STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
 Project Name: 2311-012 West Campus Report Page: (Page 3 of 7)
 Date Prepared: 2/28/2024

F. INDOOR LIGHTING FIXTURE SCHEDULE
 This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
LF-2	Lithonia OLLWD LED 14w (LF-2)	No	NA	14	Mfr. Spec	2	No	28	<input type="checkbox"/>	<input type="checkbox"/>
LF-3	Lithonia 48" Vapor Tight Wall Mount 35.3w LED	No	NA	35.3	Mfr. Spec	1	No	35.3	<input type="checkbox"/>	<input type="checkbox"/>
Total Designed Watts: UNCONDITIONED SPACES									63	

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% / 80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
 This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
 This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	<input type="checkbox"/>	<input type="checkbox"/>
NA < 4,000W subject to multilevel	See Area/Space Level Controls	<input type="checkbox"/>	<input type="checkbox"/>

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
 Project Name: 2311-012 West Campus Report Page: (Page 4 of 7)
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)
Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Whole Building	All Other Space Types	Readily Accessible	Dimmer	See Building Level	Included	Included	No	<input type="checkbox"/>	<input type="checkbox"/>
									13
Plan Sheet Showing Daylit Zones:									

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
 Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Restrooms/Mech Storage	Restroom	0.65	222	144.3	No	No
TOTALS:				222	144.3	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
 This section does not apply to this project.

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PROJECT: 2022 SIERRA II COMPACT 16'-0" W/ MECH RM
 WEST CAMPUS SACRAMENTO, CALIFORNIA
 SHEET TITLE: TITLE 24 DOCUMENTS

DOUBLE 'E' ENGINEERING, LLC
 Myrtle Point, Oregon
 www.ee-engineering.com

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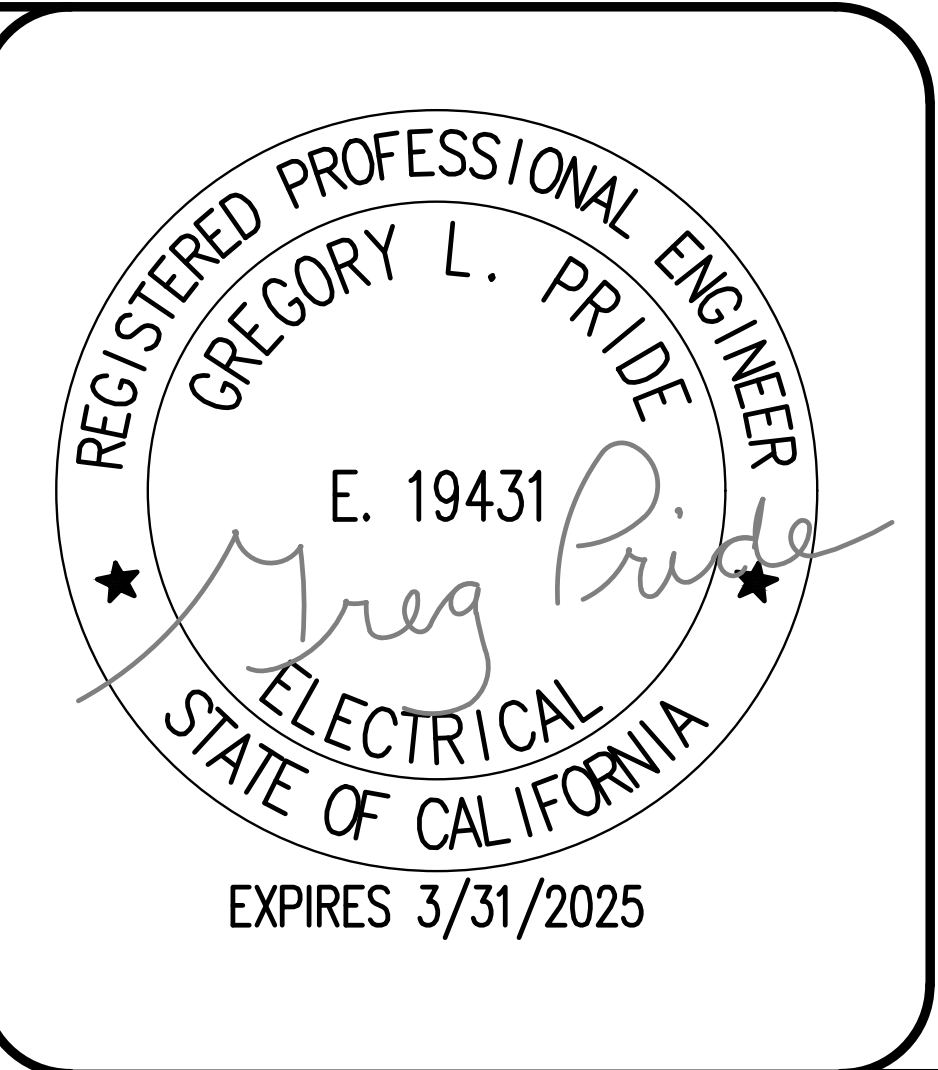
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PLAN SET# NES01
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 REVISIONS

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4	02-27-2024	CR

DRAWN BY: CR

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name: 2311-012 West Campus	Report Page: (Page 5 of 7)		
	Date Prepared: 2/28/2024		

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name: 2311-012 West Campus	Report Page: (Page 6 of 7)		
	Date Prepared: 2/28/2024		

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DWELLING UNIT LIGHTING
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Whole Building;

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PROJECT: 2022 SIERRA II COMPACT 16'-0" W/ MECH RM
 WEST CAMPUS SACRAMENTO, CALIFORNIA
 SHEET TITLE: TITLE 24 DOCUMENTS

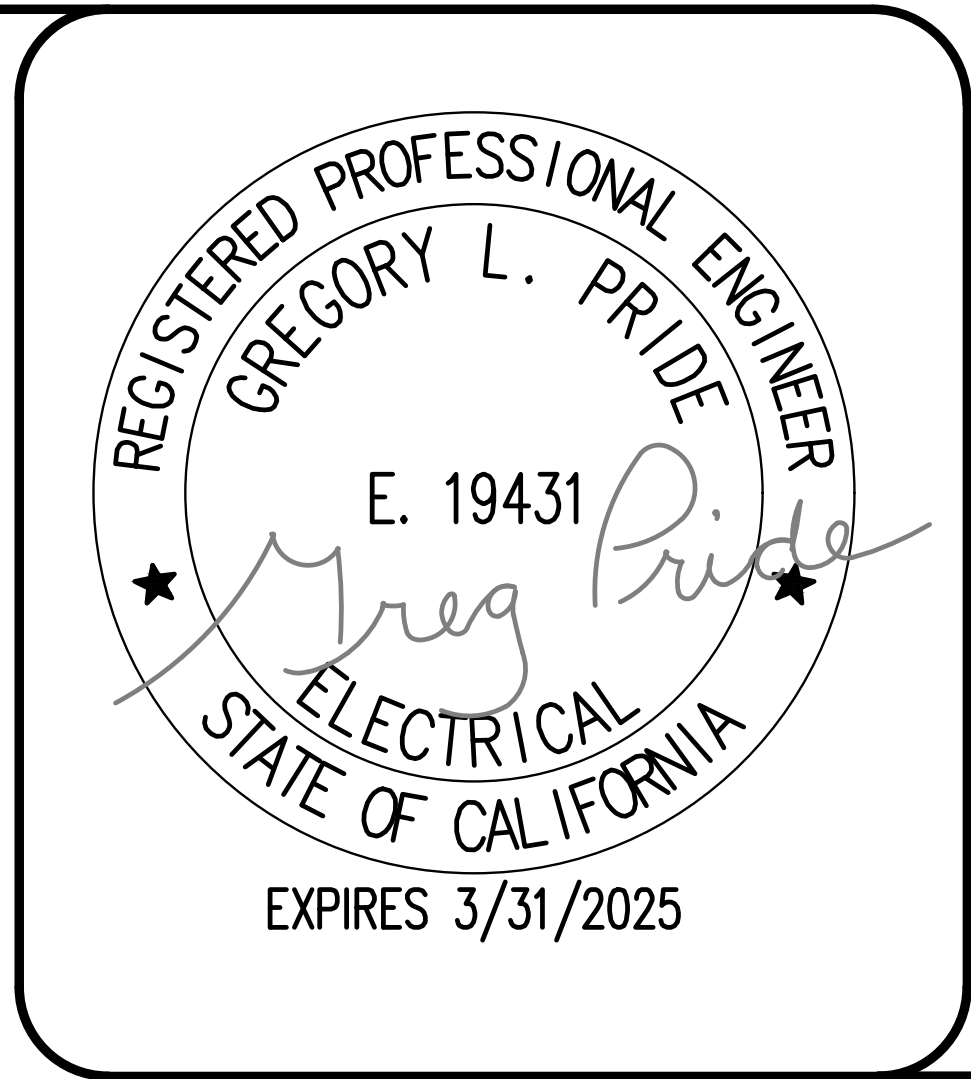
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4	02-27-2024	CR	
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SHEET NO. **E8**



STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: 2311-012 West Campus Report Page: (Page 7 of 7)
Project Address: 5022 58th St, Date Prepared: 2/28/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Matthew Weldon
Company: Regerfour LLC dba 5 Star Energy
Address: 940 Merchant St., Redding Ca 96002
Phone: 530-275-3350

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Greg Pride
Company: Double 'E' Engineering, LLC
Address: 315 Ash Street, Myrtle Point OR 97458
Date Signed: 2024-02-28
License: E19431
Phone: 541-294-0587

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STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-E
Project Name: 2311-012 West Campus Report Page: (Page 1 of 7)
Project Address: 5022 58th St, Date Prepared: 2/28/2024

A. GENERAL INFORMATION

Table with 5 rows: Project Location (city), Climate Zone, Outdoor Lighting Zone, LZ categories, and Occupancy Types. Includes Total Illuminated Hardscape Area (ft²) = 540.

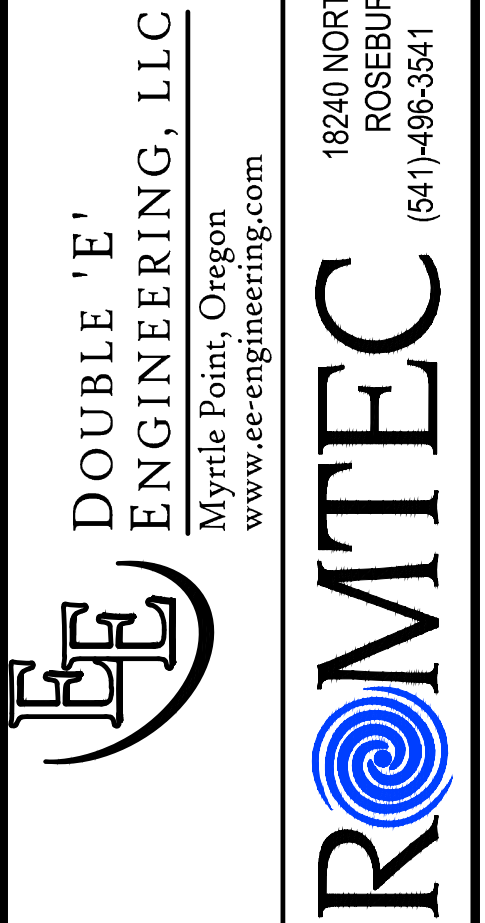
B. PROJECT SCOPE

Table with 5 columns: 01 (New Lighting System), 02 (Must Comply with Allowances), 03 (% of Existing Luminaires Being Altered), 04 (Sum Total of Luminaires Being Added or Altered), 05 (Calculation Method).

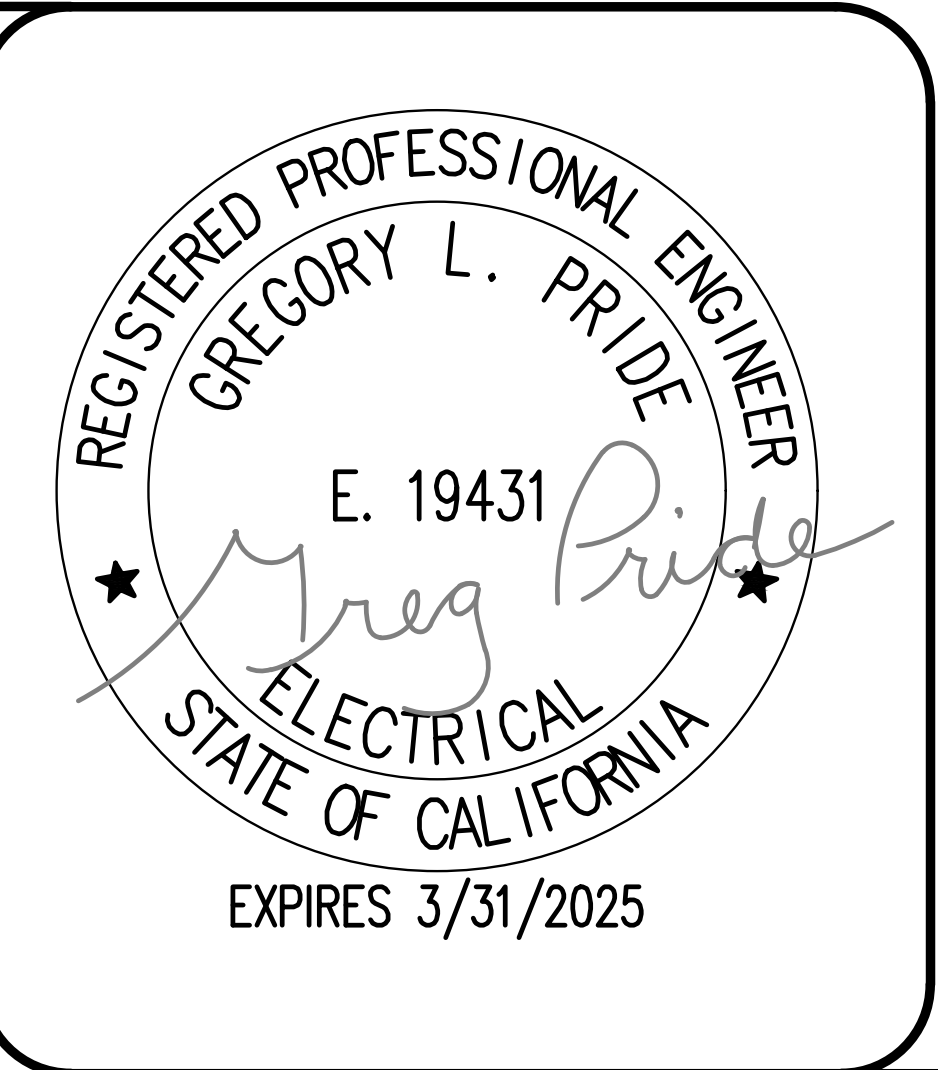
Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.
¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
WEST CAMPUS SACRAMENTO, CALIFORNIA
SHEET TITLE: TITLE 24 DOCUMENTS
PLAN SET# NES01
DATE: 11/01/2023
REVISIONS
REV. 4 DATE: 02-27-2024 BY: CR
DRAWN BY: CR
SHEET NO. E9



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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E	
Project Name: 2311-012 West Campus	Report Page: (Page 2 of 7)		
	Date Prepared: 2/28/2024		

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv										Compliance Results					
01	02	03	04	05	06	07	08	09							
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(c)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 must be >= 08
273	+	---	+	---	+	---	+	---	OR	---	=	273	≥	36	COMPLIES
Shielding Compliance (See Table G for Details)												N/A			
Controls Compliance (See Table H for Details)												Not applicable			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E	
Project Name: 2311-012 West Campus	Report Page: (Page 3 of 7)		
	Date Prepared: 2/28/2024		

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ^{1, 2}	How is Wattage determined	Total Number Luminaires ²	Luminaire Status ³	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1 ⁴	Field Inspector
LF-1	Lithonia OLLWD LED 9w (LF-1) <input type="checkbox"/> Linear	9	Mfr. Spec	4	New	<input type="checkbox"/>	36	NA: < 6200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Total Design Watts:							36		

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
 EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

¹ FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

² For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

⁴ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

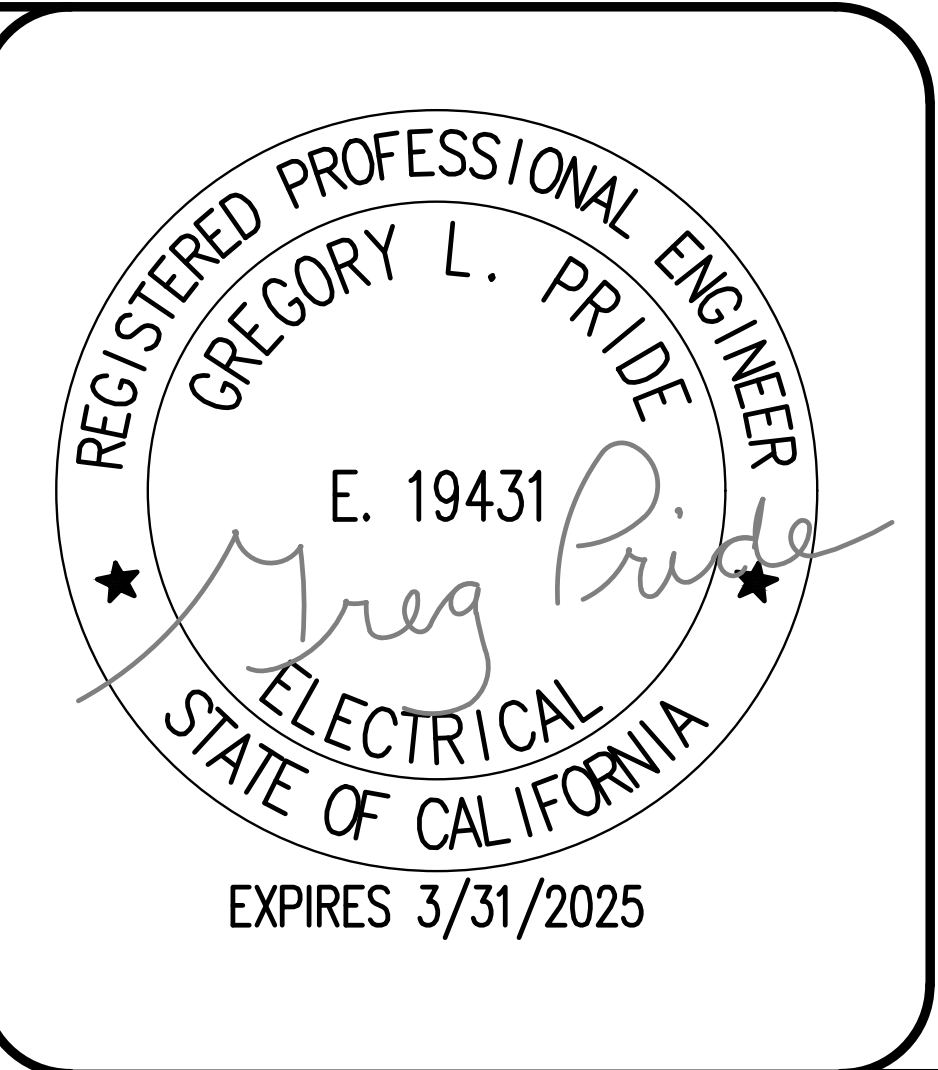
This section does not apply to this project.

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
 WEST CAMPUS
 SACRAMENTO, CALIFORNIA
 SHEET TITLE: TITLE 24 DOCUMENTS

PLAN SET#	NES01		
DATE:	11/01/2023		
REVISIONS			
REV.	DATE:	BY	
4	02-27-2024	CR	
DRAWN BY: CR			



CERTIFICATE OF COMPLIANCE		NRCC-LTO-E	
Project Name: 2311-012 West Campus	Report Page:	(Page 4 of 7)	
	Date Prepared:	2/28/2024	

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail

¹FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

²Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.

³Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

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Project Name: 2311-012 West Campus	Report Page:	(Page 5 of 7)	
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I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

<input checked="" type="checkbox"/> General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
	<input type="checkbox"/> Per Application Table J	<input type="checkbox"/> Sales Frontage Table K	<input type="checkbox"/> Ornamental Table L	<input type="checkbox"/> Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02 Area Description	03 Area Wattage Allowance (AWA)		04 Linear Wattage Allowance (LWA)			09 Total General AWA + LWA (Watts)	
	03 Illuminated Area (ft ²)	04 Allowed Density (W/ft ²)	05 Area Allowance (Watts)	06 Perimeter Length (lf)	07 Allowed Density (W/lf)		08 Linear Allowance (Watts)
Entrances Side Walk	540	0.021	11.3	60	0.2	12	23
Initial Wattage Allowance for Entire Site (Watts):						250	
Instances of Initial Wattage Allowance (LZ 0 only)¹							
Total General Hardscape Allowance (Watts):						273	

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

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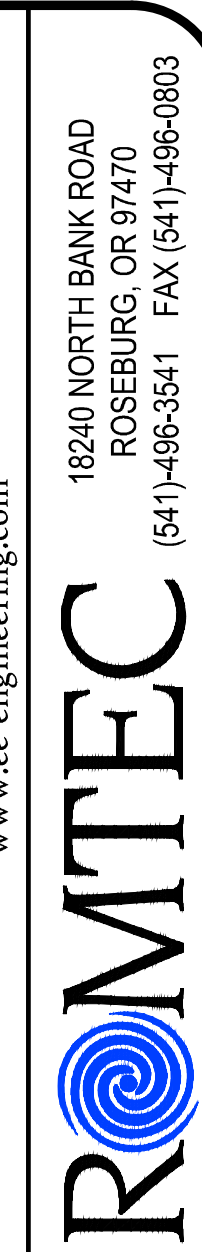
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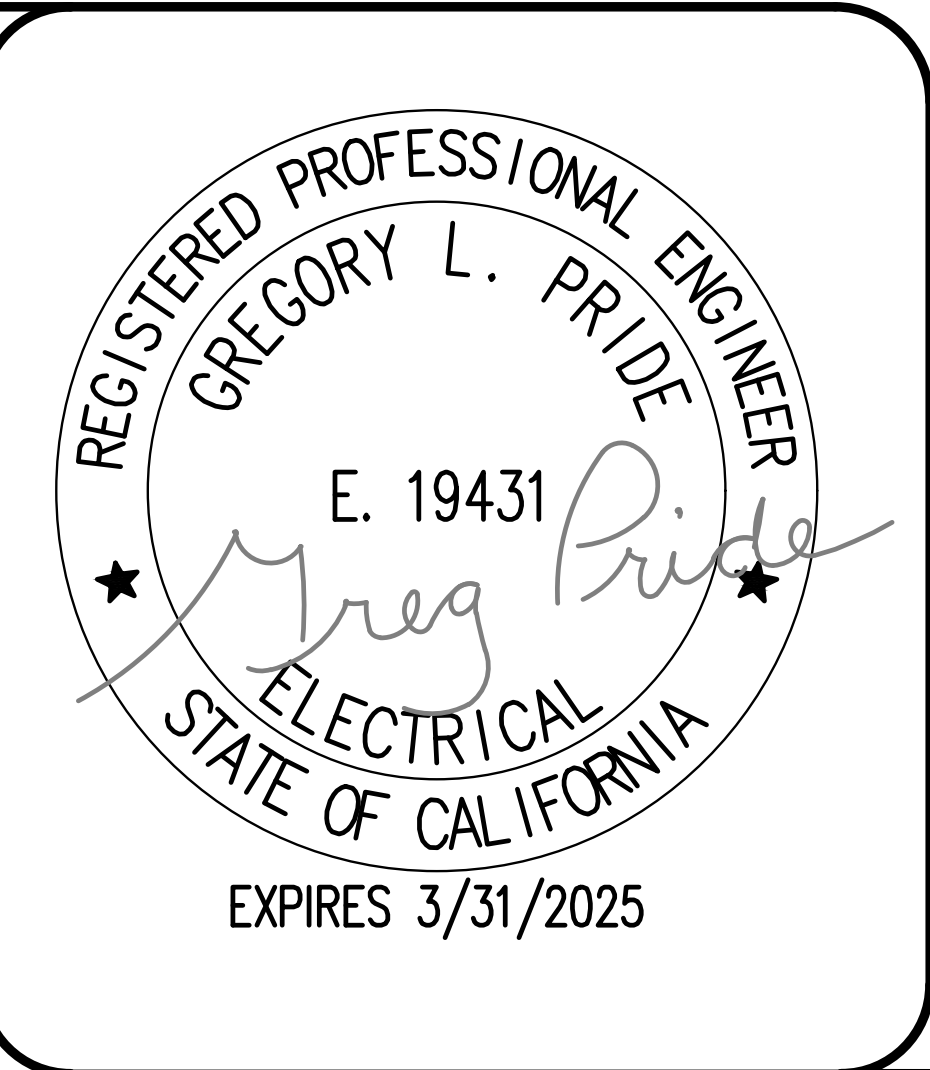


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NES01			
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CR			

SHEET NO.

E11



STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: 2311-012 West Campus	Report Page: (Page 6 of 7)	
	Date Prepared: 2/28/2024	

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no NRCA forms required for this project.

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STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: 2311-012 West Campus	Report Page: (Page 7 of 7)	
Project Address: 5022 58th St	Date Prepared: 2/28/2024	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Matthew Weldon	Documentation Author Signature: <i>Matthew Weldon</i>
Company: Regerfour LLC dba 5 Star Energy	Signature Date: 2024-02-28
Address: 940 Merchant St.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Redding Ca 96002	Phone: 530-275-3350

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Greg Pride	Responsible Designer Signature: <i>Greg Pride</i>
Company: Double 'E' Engineering, LLC	Date Signed: 2024-02-28
Address: 315 Ash Street	License: E19431
City/State/Zip: Myrtle Point OR 97458	Phone: 541-294-0587

Generated Date/Time: Documentation Software: EnergyPro
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3895-0224-1692 Schema Version: rev 20220101 Report Generated: 2024-02-28 15:17:58

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

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WEST CAMPUS
 SACRAMENTO, CALIFORNIA

SHEET TITLE: TITLE 24 DOCUMENTS

PLAN SET#	WES01	
DATE:	11/01/2023	
REVISIONS		
REV.	DATE:	BY
4	02-27-2024	CR
DRAWN BY: CR		

SHEET NO. **E12**