

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Rudy Sarte*
BILL ROBERTSON DSFM III
 Approval date: 11-04-2009
 CSFM #: 01-37-11-0033

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	201	241

Mark Hedglin 12-02-2009
 REGISTERED ENGINEER-MECHANICAL

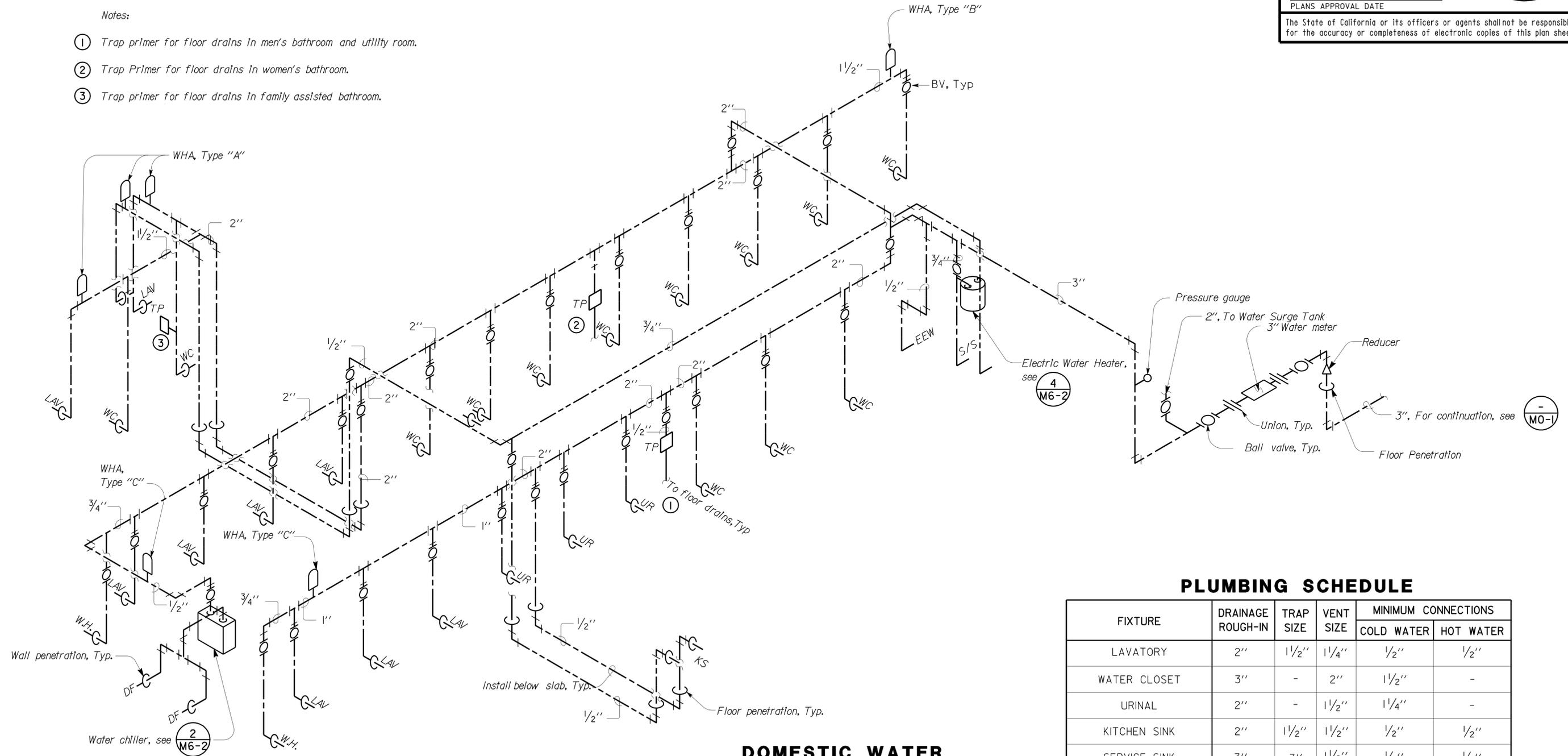
MARK HEDGLIN
 No. M32912
 Exp. 9-30-10
 MECH
 STATE OF CALIFORNIA

6-21-10
 PLANS APPROVAL DATE

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Notes:

- ① Trap primer for floor drains in men's bathroom and utility room.
- ② Trap Primer for floor drains in women's bathroom.
- ③ Trap primer for floor drains in family assisted bathroom.



DOMESTIC WATER
 NO SCALE

PLUMBING SCHEDULE

FIXTURE	DRAINAGE ROUGH-IN	TRAP SIZE	VENT SIZE	MINIMUM CONNECTIONS	
				COLD WATER	HOT WATER
LAVATORY	2"	1 1/2"	1 1/4"	1/2"	1/2"
WATER CLOSET	3"	-	2"	1 1/2"	-
URINAL	2"	-	1 1/2"	1 1/4"	-
KITCHEN SINK	2"	1 1/2"	1 1/2"	1/2"	1/2"
SERVICE SINK	3"	3"	1 1/2"	1/2"	1/2"
EMERGENCY SHOWER AND EYEWASH	-	-	-	1/2"	-
WALL HYDRANT	-	-	-	3/4"	-
DRINKING FOUNTAIN	2"	1 1/2"	1 1/4"	1/2"	-

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DS OSD 2139A (4/89) FILE NO.:	FILE => m3_2.dgn DATE PLOTTED => 24-JUN-2010 TIME PLOTTED => 09:59	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 11340 EA 261401	BRIDGE NO. 57R0001L 57R0001R POST MILE R59.4/R60.0	ALISO CREEK SAFETY ROADSIDE REST AREA SOUTHBOUND BUILDING 3	SHEET M3-2
	DESIGN BY <i>Severiano Gutierrez</i> CHECKED <i>Mark Hedglin</i> DETAILS BY <i>Rudy Sarte</i> CHECKED <i>Severiano Gutierrez</i> QUANTITIES BY <i>Severiano Gutierrez</i> CHECKED <i>Mark Hedglin</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04-18-08 12-18-08 06-04-09 08-18-09 10-28-09 12-02-09	SHEET OF	

USERNAME => HPPL115 DATE PLOTTED => 24-JUN-2010 TIME PLOTTED => 09:59

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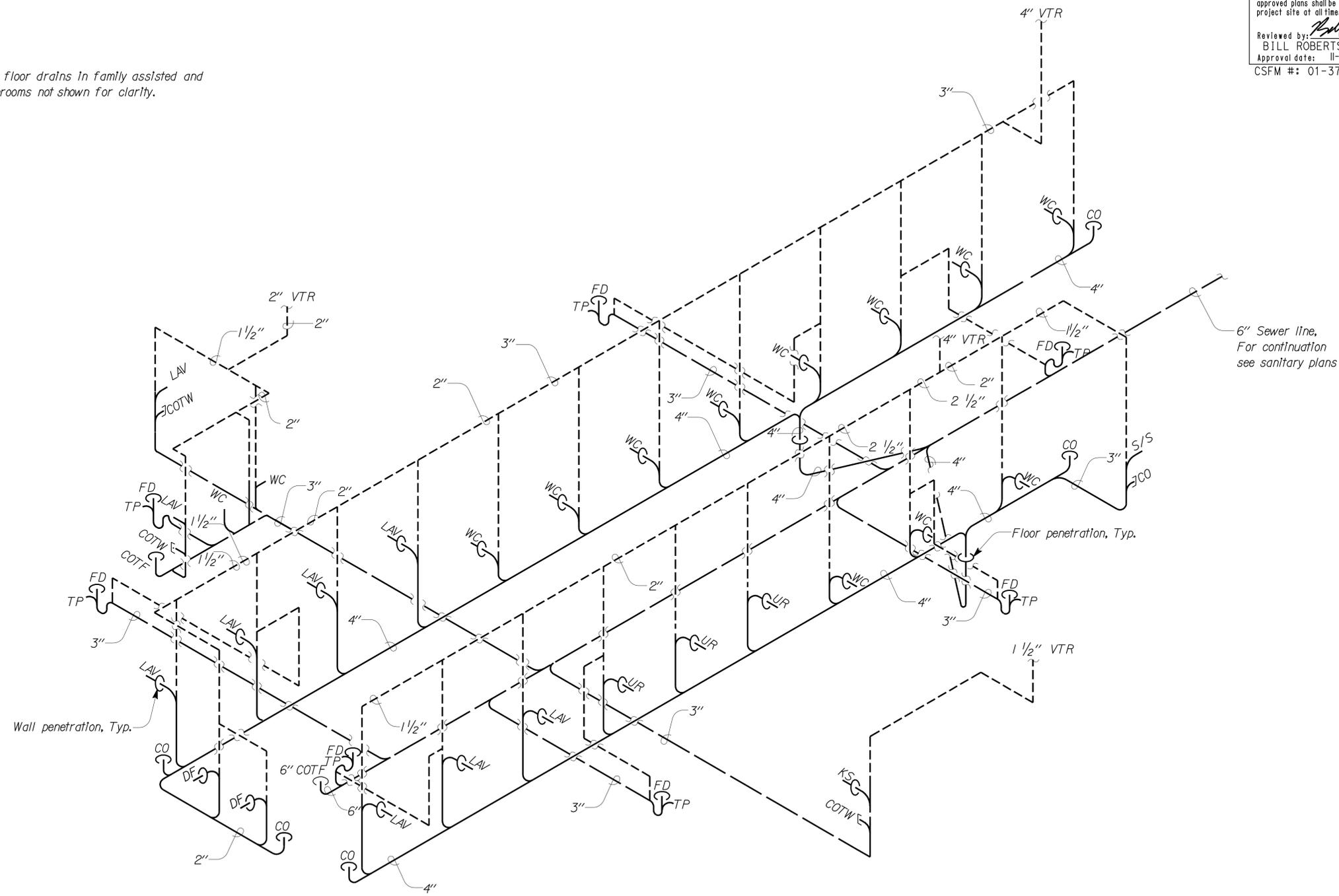
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Note:
 Vents for floor drains in family assisted and CHP bathrooms not shown for clarity.



SANITARY SEWER

For plumbing schedule, see

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NO SCALE

DESIGN BY <i>Severiano Gutierrez</i> CHECKED <i>Mark Hedglin</i>	DETAILS BY <i>Rudy Sarte</i> CHECKED <i>Severiano Gutierrez</i>	QUANTITIES BY <i>Severiano Gutierrez</i> CHECKED <i>Mark Hedglin</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57R0001L 57R0001R	ALISO CREEK SAFETY ROADSIDE REST AREA	SHEET
					POST MILE R59.4/R60.0		SOUTHBOUND BUILDING 3
CU 11340 EA 261401					DISREGARD PRINTS BEARING EARLIER REVISION DATES		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					REVISION DATES (PRELIMINARY STAGE ONLY)		
0 1 2 3					04-18-08 12-18-08 06-04-09 08-18-09 10-28-09 12-02-09		
DS OSD 2139A (4/89) FILE NO.:	FILE => m3_3.dgn DATE PLOTTED => 24-JUN-2010	TIME PLOTTED => 09:59			SHEET	OF	

USERNAME => HP0115 DATE PLOTTED => 24-JUN-2010 TIME PLOTTED => 09:59

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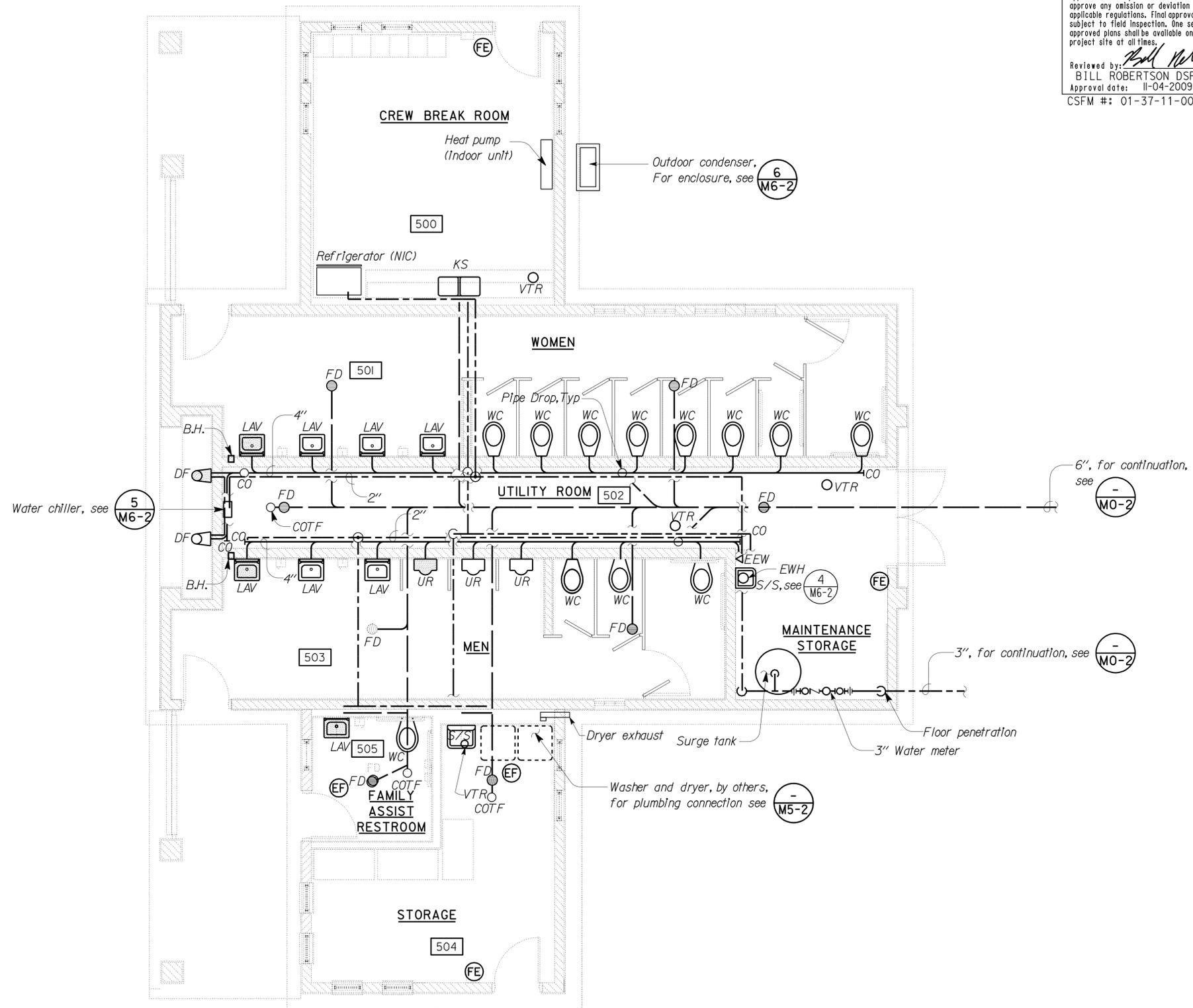
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- Notes:**
- For piping schematic, see  
 - Storage exhaust fan shall be 217 watts, 300 CFM, 115 V, 60 HZ, .25 SP, 2 Sones, nominal.
 - Family Assist Restroom exhaust fan shall be 60 watts, 100 CFM, 115 V, 60 Hz, .25 SP, 2 Sones, nominal.
 - Crew room heat pump shall be thru the wall type 12,000 BTUH, 120 V, 1 Phase, 60 Hz, nominal.
 - Electric water chiller shall be 325 Watts, 115 V, 1 Phase, 60 Hz, nominal.
 - Electric water heater shall be storage tank type, 19 Gal 49 GPH @ 50 F temperature rise, 6000 watts, 240V, 1 phase, 60 Hz, nominal. See 
 - Fire extinguisher shall be bracket mounted, and shall be 2A-40BC.

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

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DS OSD 2139A (4/89) FILE NO.:	FILE => m5_1.dgn DATE PLOTTED => 28-JUN-2010 TIME PLOTTED => 14:11	DESIGN	BY Severiano Gutierrez	CHECKED Mark Hedglin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 57R0001L	ALISO CREEK SAFETY ROADSIDE REST AREA NORTHBOUND BUILDING 5	SHEET M5-1 OF
		DETAILS	BY Rudy Sarte	CHECKED Severiano Gutierrez		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE R59.4/R60.0		
QUANTITIES	BY Severiano Gutierrez	CHECKED Mark Hedglin	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 04-18-08 12-18-08 06-04-09 08-18-09 10-28-09 12-02-09					

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6-21-10 PLANS APPROVAL DATE		

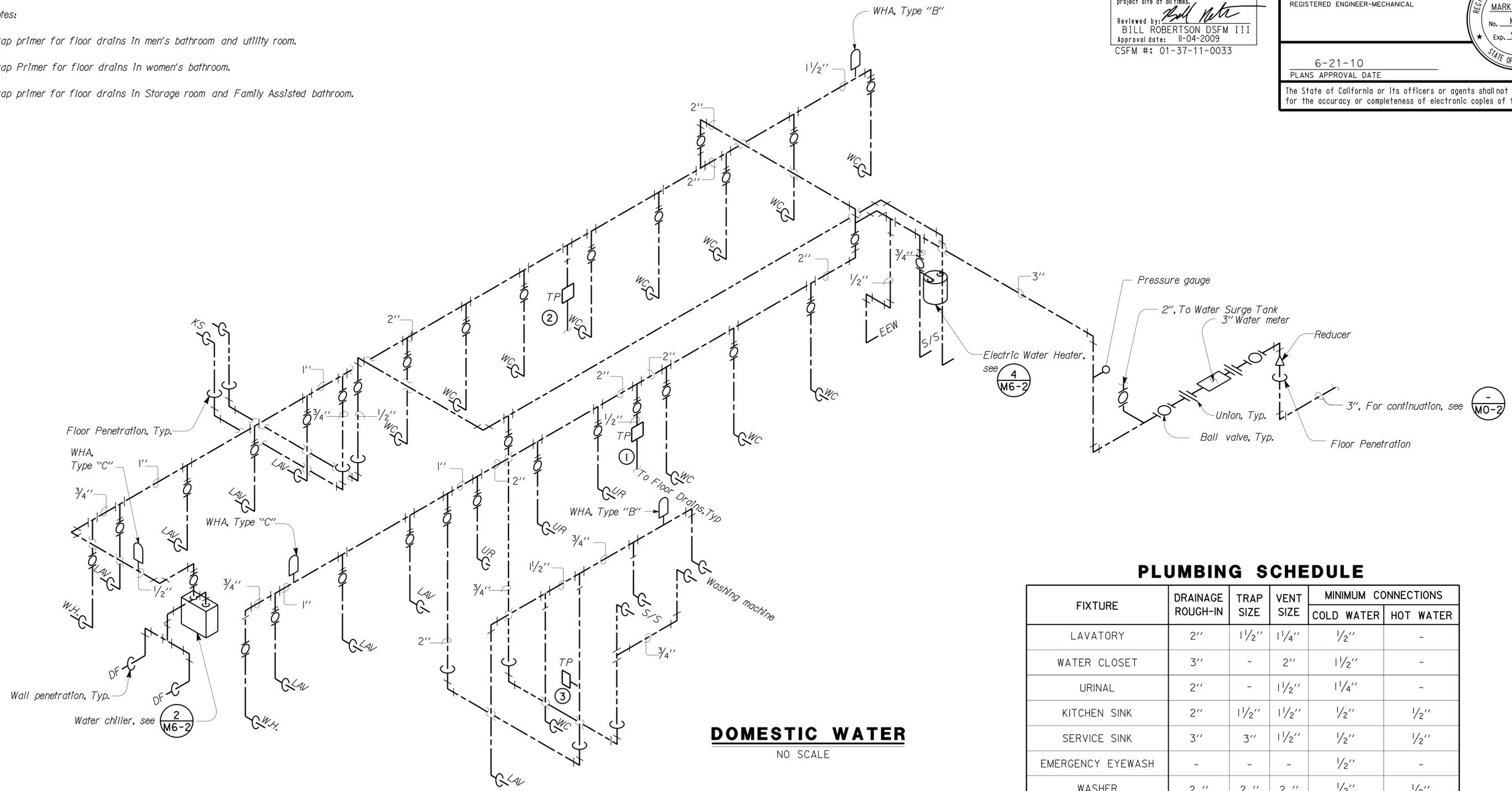
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- Notes:
1. Trap primer for floor drains in men's bathroom and utility room.
 2. Trap Primer for floor drains in women's bathroom.
 3. Trap primer for floor drains in Storage room and Family Assisted bathroom.



PLUMBING SCHEDULE

FIXTURE	DRAINAGE ROUGH-IN	TRAP SIZE	VENT SIZE	MINIMUM CONNECTIONS	
				COLD WATER	HOT WATER
LAVATORY	2"	1 1/2"	1 1/4"	1/2"	-
WATER CLOSET	3"	-	2"	1 1/2"	-
URINAL	2"	-	1 1/2"	1 1/4"	-
KITCHEN SINK	2"	1 1/2"	1 1/2"	1/2"	1/2"
SERVICE SINK	3"	3"	1 1/2"	1/2"	1/2"
EMERGENCY EYEWASH	-	-	-	1/2"	-
WASHER	2 "	2 "	2 "	1/2"	1/2"
WALL HYDRANT	-	-	-	3/4"	-
DRINKING FOUNTAIN	2 "	1 1/2"	1 1/4"	1/2"	-

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		DETAILS	BY Rudy Sarte	CHECKED Severiano Gutierrez			POST MILE	R59.4/R60.0		
		QUANTITIES	BY Severiano Gutierrez	CHECKED Mark Hedglin			CU 11340 EA 261401	REVISION DATES (PRELIMINARY STAGE ONLY)		

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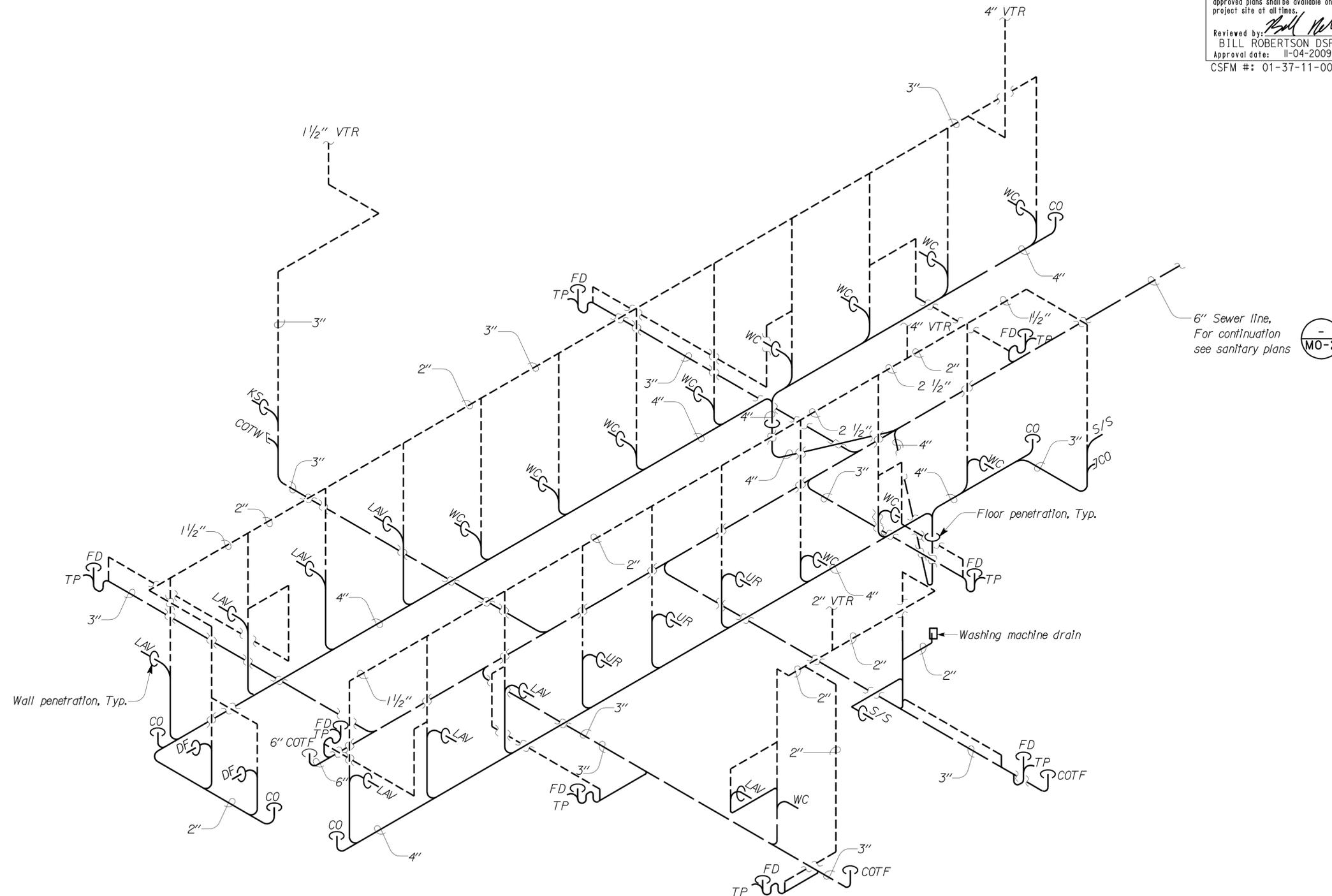
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	205	241

Mark Hedglin 12-02-2009
 REGISTERED ENGINEER-MECHANICAL

MARK HEDGLIN
 No. M32912
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SANITARY SEWER

For plumbing schedule, see **M5-2**

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DS OSD 2139A (4/89) FILE NO.:	FILE => m5_3.dgn DATE PLOTTED => 29-JUN-2010 TIME PLOTTED => 10:23	DESIGN	BY <i>Severiano Gutierrez</i>	CHECKED <i>Mark Hedglin</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	57R0001L	ALISO CREEK SAFETY ROADSIDE REST AREA	SHEET M5-3		
		DETAILS	BY <i>Rudy Sarte</i>	CHECKED <i>Severiano Gutierrez</i>			POST MILE	57R0001R			NORTHBOUND BUILDING 5	SANITARY SEWER
		QUANTITIES	BY <i>Severiano Gutierrez</i>	CHECKED <i>Mark Hedglin</i>			POST MILE	R59.4/R60.0				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF			

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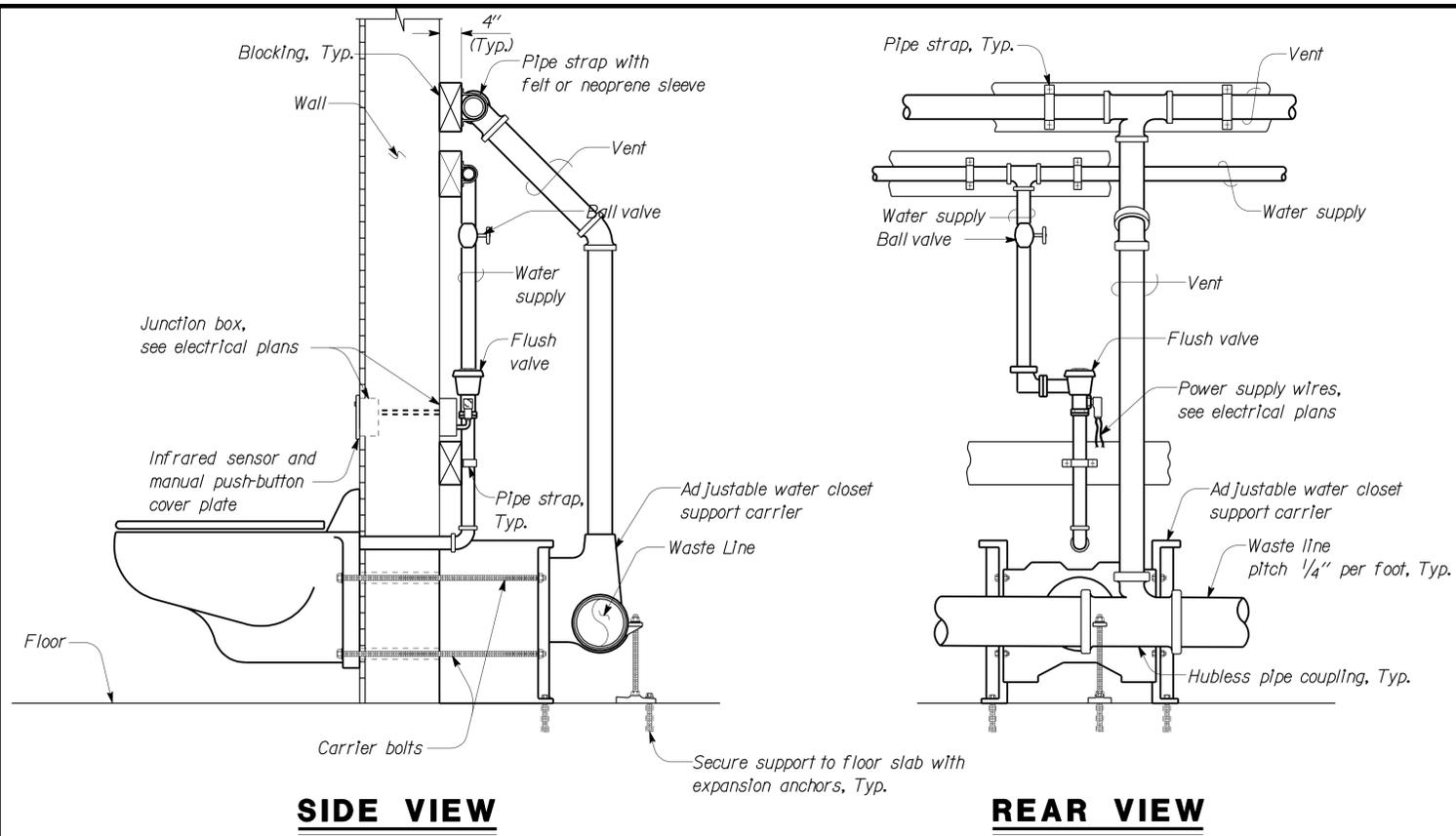
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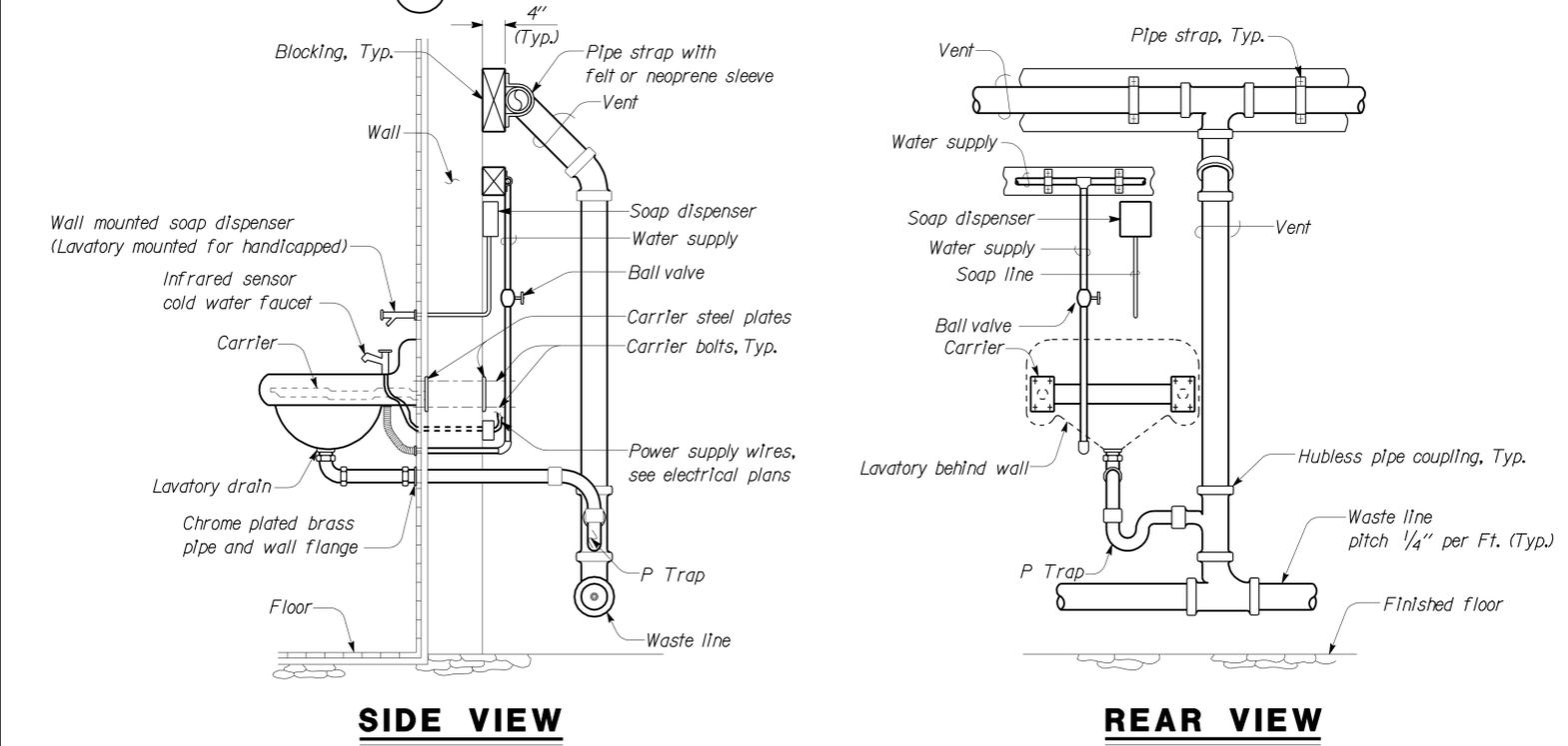
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SIDE VIEW

REAR VIEW

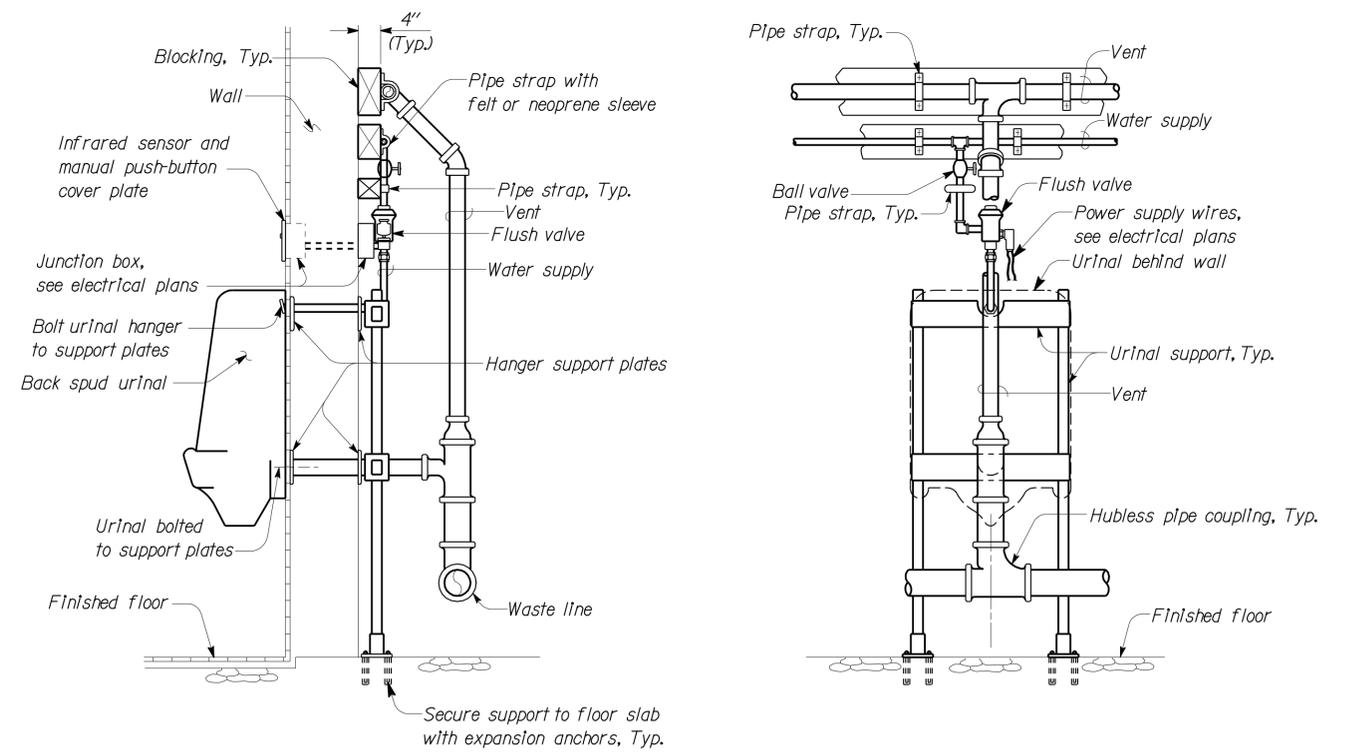
1 WATER CLOSET ROUGH-IN DETAIL



SIDE VIEW

REAR VIEW

2 LAVATORY ROUGH-IN DETAIL



SIDE VIEW

REAR VIEW

3 URINAL ROUGH-IN DETAIL

Note:
For men's and women's bathrooms only.

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DESIGN BY Severiano Gutierrez CHECKED Mark Hedglin		DETAILS BY Rudy Sarte CHECKED Severiano Gutierrez				QUANTITIES BY Severiano Gutierrez CHECKED Mark Hedglin		MECHANICAL DETAILS NO. 1		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
FILE => m6_1.dgn		DATE PLOTTED => 24-JUN-2010				TIME PLOTTED => 09:59		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 11340 EA 261401		04-18-08 12-18-08 06-04-09 08-18-09 10-28-09 12-02-09		11 OF 11	

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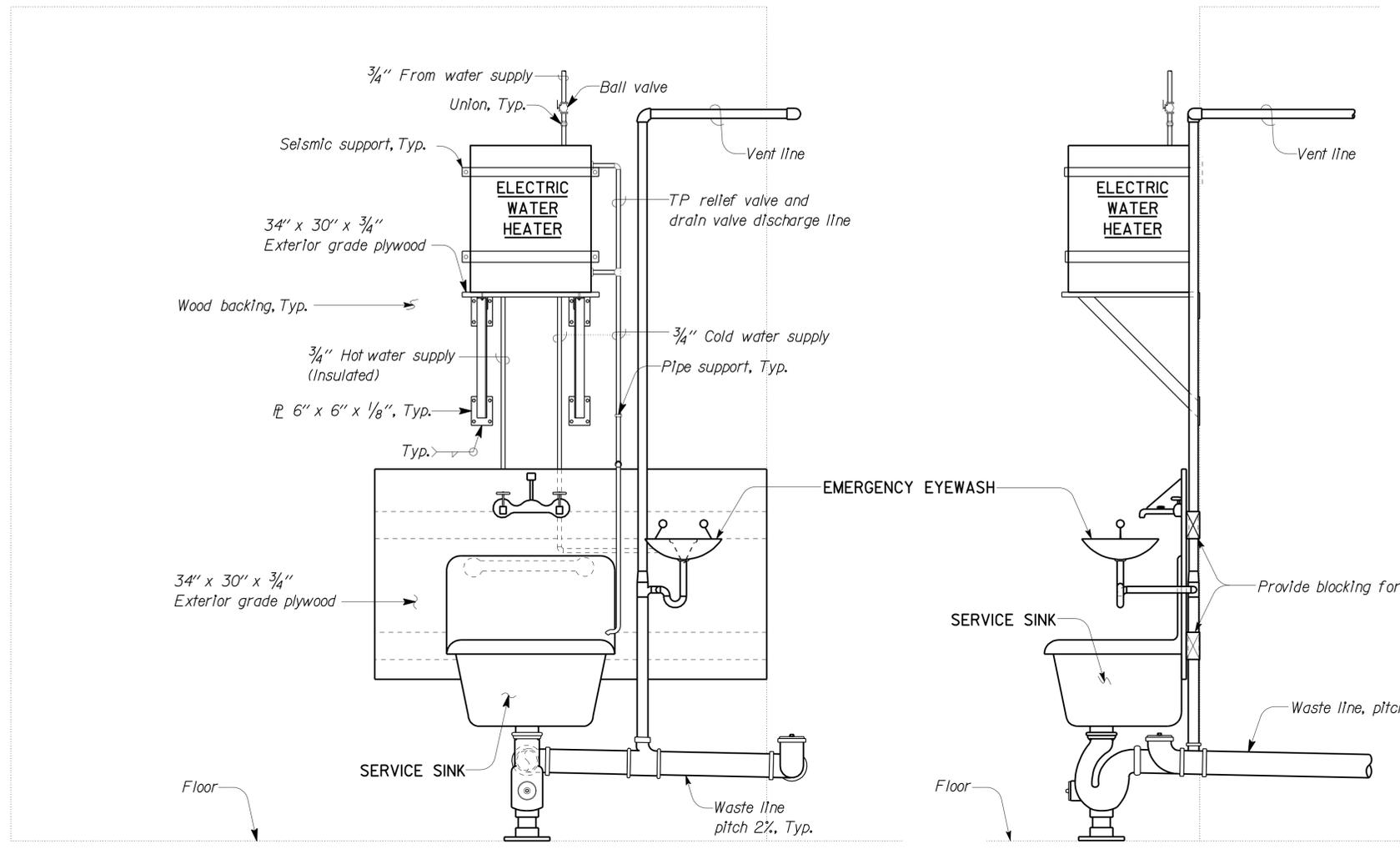
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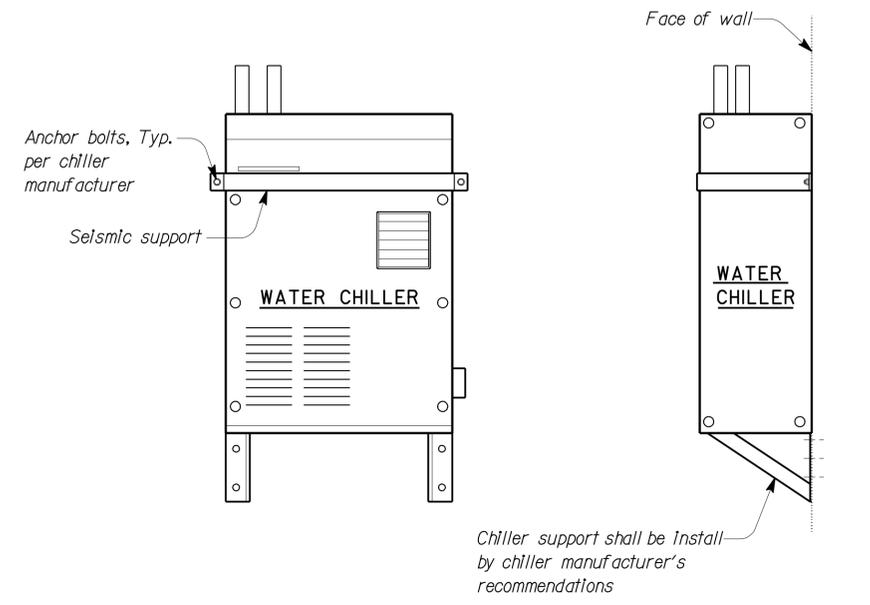
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ELEVATION

SECTION

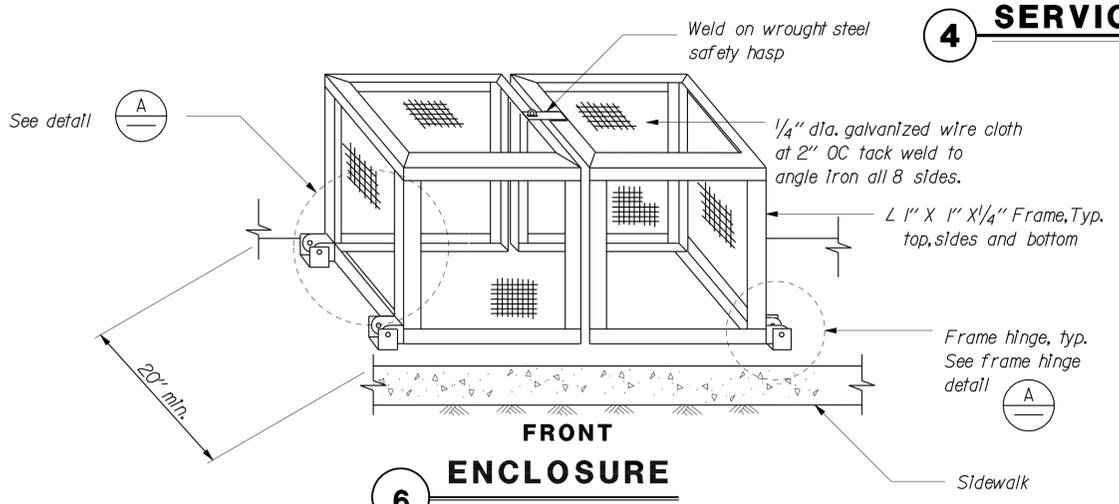


FRONT ELEVATION

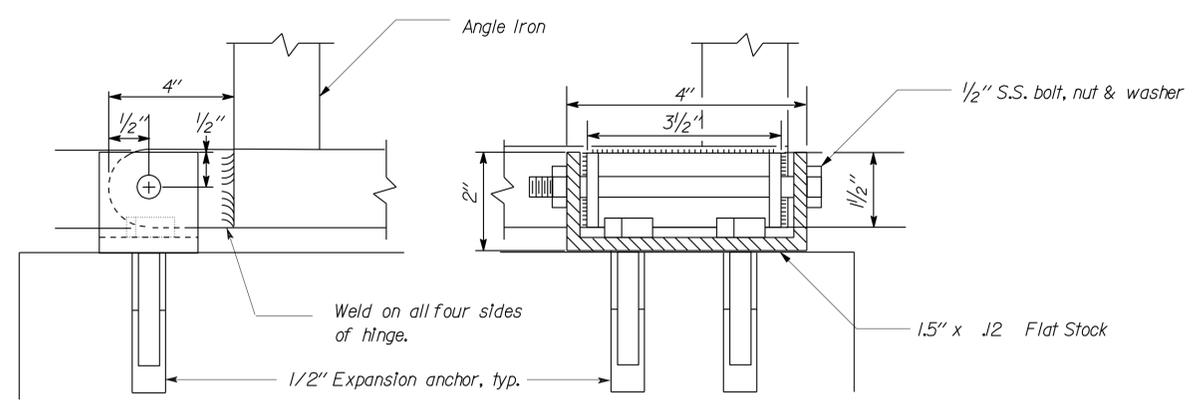
SIDE ELEVATION

5 WATER CHILLER

4 SERVICE SINK



6 FRONT ENCLOSURE



A FRAME HINGE DETAIL

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		DETAILS	BY Rudy Sarte	CHECKED Severiano Gutierrez		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE R59.4/R60.0			MECHANICAL DETAILS NO. 2
		QUANTITIES	BY Severiano Gutierrez	CHECKED Mark Hedglin		CU 11340 EA 261401	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF

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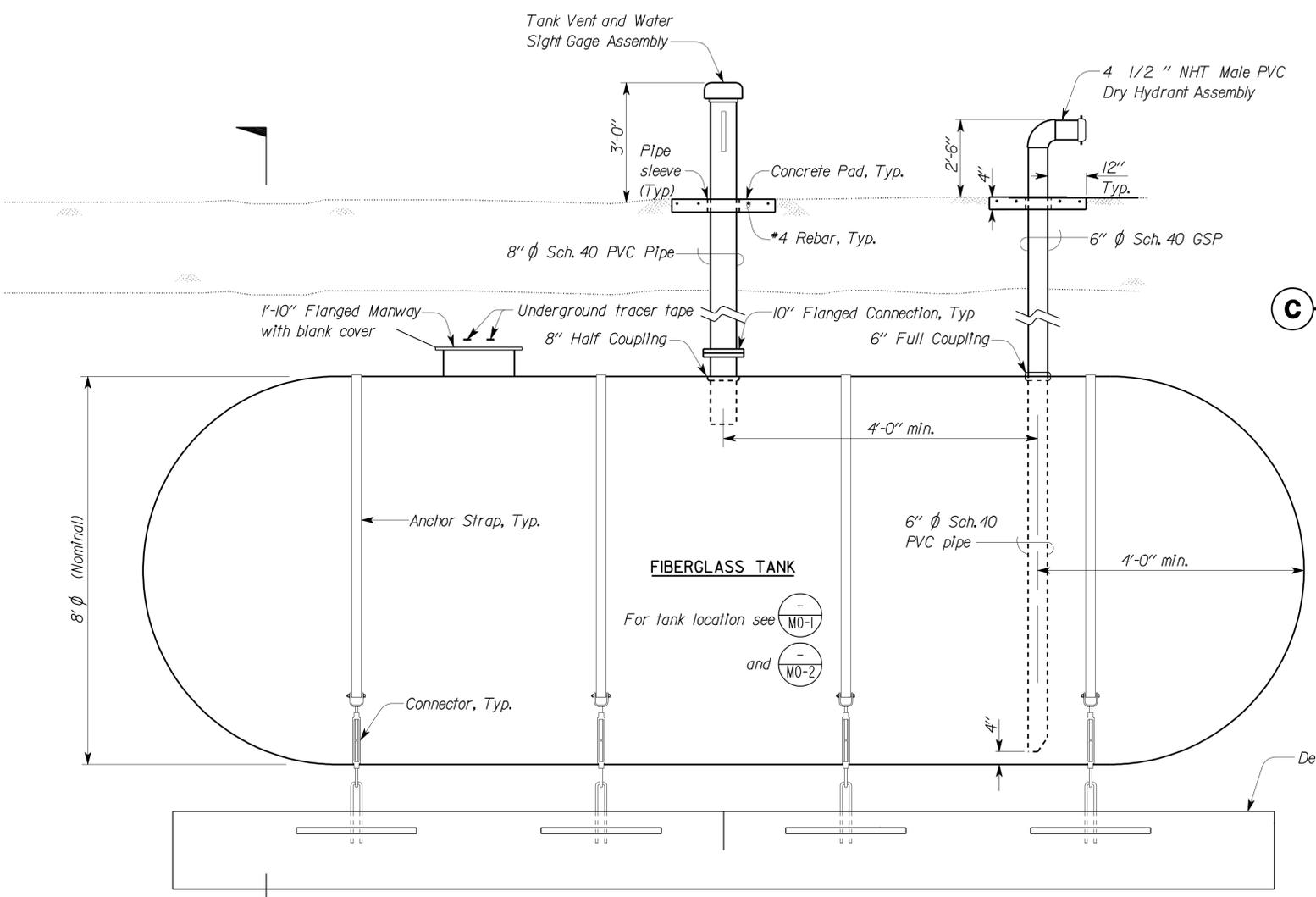
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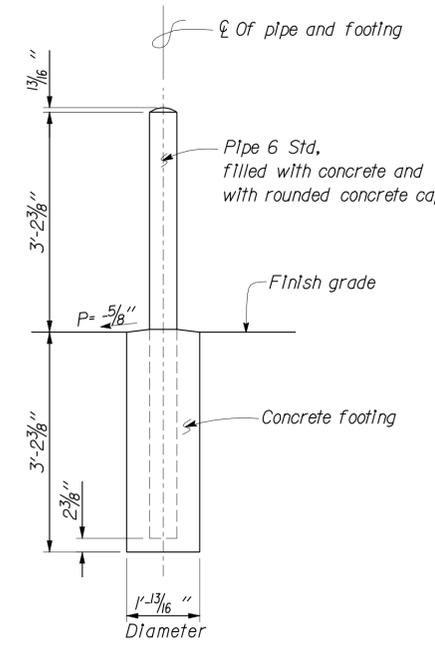
TANK DIAMETER	NOMINAL CAPACITY (GALLONS)	NOMINAL LENGTH
8'	12,000	33'

Notes:

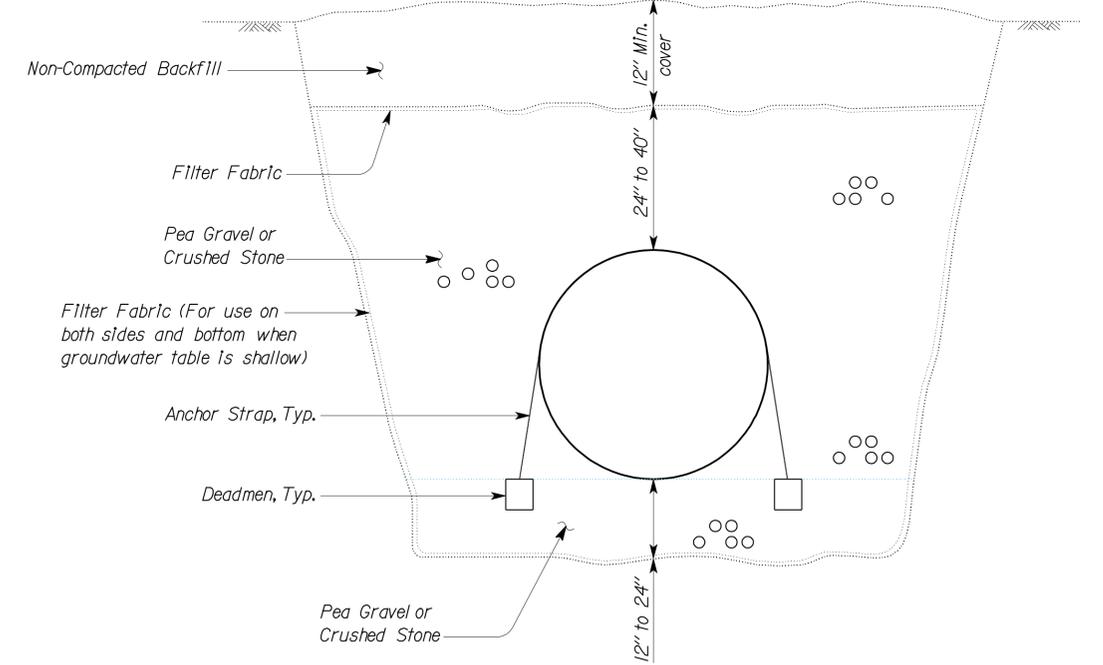
- Manway cover shall be taped with Tracer Tape before backfilling over.



A FIRE PROTECTION UNDERGROUND WATER STORAGE TANK-12,000 GALLONS



C PIPE GUARD POST DETAIL



B SECTION

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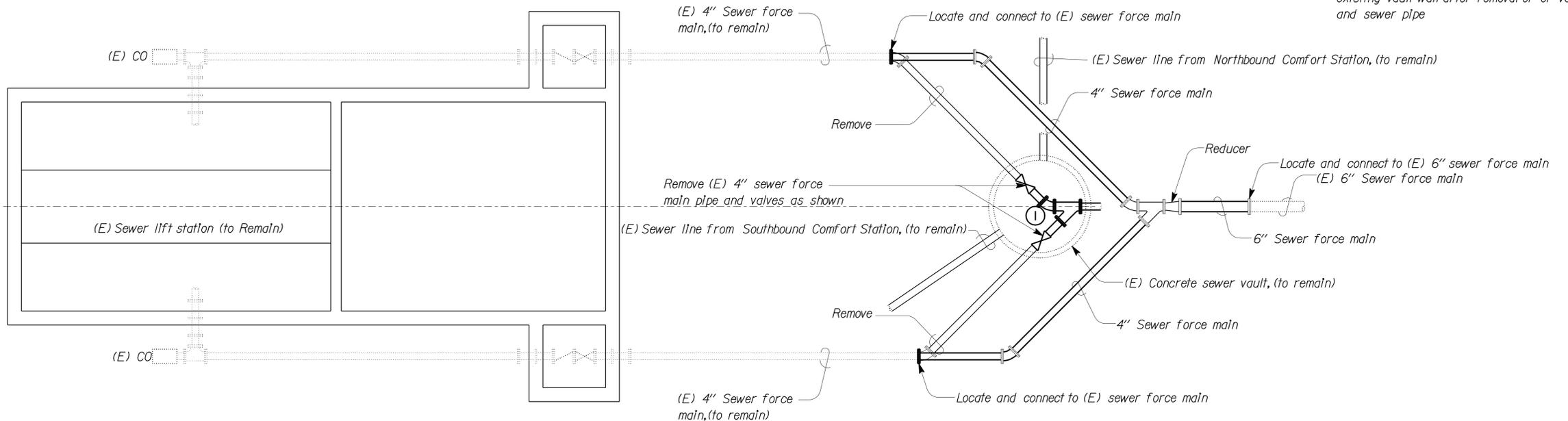
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- Notes:**
- Remove all valves and pipe in concrete vault. Concrete vault walls shall be patch to match existing vault wall after removal of valves and sewer pipe



SEWER LIFT STATION PLAN

NO SCALE

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	DETAILS	BY <i>Rudy Sarte</i>	CHECKED <i>Severiano Gutierrez</i>			POST MILE		
	QUANTITIES	BY <i>Severiano Gutierrez</i>	CHECKED <i>Mark Hedglin</i>			R59.4/R60.0		
FILE => m6_4.dgn DATE PLOTTED => 24-JUN-2010	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	04-18-08 12-18-08 06-04-09 08-18-09 10-28-09 12-02-09	SHEET OF	

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GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER		OCCUPANCY SENSOR WALL SWITCH, TYPE 1
	POLE-ARM ELECTROLIER		OCCUPANCY SENSOR WALL SWITCH, TYPE 2
	CEILING WALL		MOTION SENSOR SWITCH
	SURFACE FLUORESCENT, METAL HALIDE OR SODIUM VAPOR FIXTURE		MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
	RECESSED FLUORESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE		MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
	EXIT LIGHT		TIMER SWITCH
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE		HAND DRYER
	RECESSED INDIVIDUAL FLUORESCENT FIXTURE		TELEPHONE OUTLET
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT FIXTURES		SOUND SYSTEM LOUD SPEAKER OUTLET
	NOTE: A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHA-NUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, CF=COMPACT FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE.		PUSHBUTTON
	EXAMPLE: (4) F 2 - 2 x 32		THERMOSTAT
			PRESSURE SWITCH
			FLOW SWITCH
			PHOTOELECTRIC CELL UNIT
			SURFACE-MOUNTED PANELBOARD AND CABINET
			MOTOR CONTROLLER
			DISCONNECT SWITCH
			CONDUIT CONCEALED IN CEILING OR WALL
			CONDUIT CONCEALED IN FLOOR
			CONDUIT EXPOSED
			CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. NO CROSS-LINE INDICATES 2#12 WITH 1#12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
	JUNCTION BOX		HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT.
	SINGLE RECEPTACLE OUTLET		SURFACE METAL RACEWAY
	DUPLEX RECEPTACLE OUTLET		CONDUCTOR INFO (PER CONDUIT) CONDUIT TYPE CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)		CONDUIT, RIGID STEEL, UNDERGROUND
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)		CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET		CONDUIT, FLEXIBLE
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET		CONDUIT, TURN UP
	RANGE OUTLET		CONDUIT, TURN DOWN
	CLOCK HANGER RECEPTACLE		CONDUIT SEAL, EXPLOSION-PROOF
	FAN HANGER RECEPTACLE		CONDUIT, EXPANSION JOINT
	MULTI-OUTLET ASSEMBLY		ADAPTER, ONE TYPE CONDUIT TO ANOTHER
	SINGLE POLE SWITCH		POLE
	DOUBLE POLE SWITCH		
	THREE WAY SWITCH		
	FOUR WAY SWITCH		
	KEY OPERATED SWITCH		
	WEATHERPROOF SWITCH		
	FAN SWITCH		
	TWO SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND TIMER SWITCH FOR HEAT LAMP		
	OCCUPANCY SENSOR SWITCH - CEILING MOUNTED		

SYMBOL	DESCRIPTION
	HEAT DETECTOR
	SMOKE DETECTOR
	MANUAL PULL STATION
	AUDIO/VISUAL ALARM DEVICE
	GLASS BREAK DISCRIMINATOR
	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
	KEYPAD FOR ALARM SYSTEM
	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
	SENSOR
	SOLENOID VALVE
	CONTROL MODULE
	COMBINATION SENSOR/OVERRIDE BUTTON
	NO. 5 PULL BOX UNLESS OTHERWISE NOTED
	NO. 5 PULL BOX (TRAFFIC RATED) UNLESS OTHERWISE NOTED
	SECTION/ELEVATION LETTER
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REMODEL WORK

SYMBOL	DESCRIPTION
	EXISTING FLUORESCENT FIXTURE-TO REMAIN
	EXISTING FLUORESCENT FIXTURE-REMOVE
	EXISTING INCANDESCENT FIXTURE-TO REMAIN
	EXISTING INCANDESCENT FIXTURE-REMOVE
	EXISTING OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-REMOVE
	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
	EXISTING UNDERGROUND CONDUIT AND CONDUCTORS-REMOVE WIRES AND ABANDON CONDUIT IN PLACE, UNLESS OTHERWISE NOTED
	EXISTING CONDUIT AND CONDUCTORS-REMOVE
	EXISTING SWITCH-REMOVE
	EXISTING JUNCTION BOX-TO REMAIN
	EXISTING JUNCTION BOX-REMOVE

GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE POLE
	CIRCUIT BREAKER, DOUBLE POLE
	CIRCUIT BREAKER, THREE POLE
	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
	CONTACT, NORMALLY OPEN
	CONTACT, NORMALLY CLOSED
	CONTACT, NORMALLY CLOSED, TIME DELAY CLOSING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY OPENING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY CLOSING ON ENERGIZING
	CONTACT, NORMALLY CLOSED, TIME DELAY OPENING ON ENERGIZING
	CONTACT, SINGLE POLE DOUBLE-THROW
	OPERATING COIL
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY CLOSED
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY OPEN
	PRESSURE ACTUATED SWITCH, NORMALLY CLOSED
	PRESSURE ACTUATED SWITCH, NORMALLY OPEN
	FLOW ACTUATED SWITCH, NORMALLY CLOSED
	FLOW ACTUATED SWITCH, NORMALLY OPEN
	TEMPERATURE ACTUATED SWITCH, NORMALLY CLOSED
	TEMPERATURE ACTUATED SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	LIMIT SWITCH, NORMALLY OPEN
	PUSHBUTTON SWITCH, NORMALLY CLOSED
	PUSHBUTTON SWITCH, NORMALLY OPEN
	SWITCH, SINGLE-POLE
	SWITCH, SINGLE-POLE, DOUBLE-THROW
	SWITCH, DOUBLE-POLE
	SWITCH, DOUBLE-POLE, DOUBLE-THROW
	SWITCH, SINGLE-POLE, 3-POSITION
	THERMAL OVERLOAD
	FUSE
	RESISTOR
	VARIABLE RESISTOR
	TRANSFORMER WINDING
	GROUNDING ELECTRODE
	ENCLOSURE BOND
	PILOT LIGHT (A=AMBER, G=GREEN, R=RED)
	GENERATOR
	MOTOR
	FAN MOTOR

PROJECT NOTES

- A. SEPARATE GROUNDED (NEUTRAL) CONDUCTOR SHALL BE USED FOR EACH 120-VOLT CIRCUIT.
- B. HOMERUNS TO PANELBOARDS SHALL BE INSTALLED AS SHOWN ON THE PLANS. HOMERUNS SHALL NOT BE COMBINED.
- C. A SINGLE INSULATED EQUIPMENT GROUNDING CONDUCTOR (SIZED AS REQUIRED) SHALL BE INSTALLED IN EACH CONDUIT RUN.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4/R60.0	210	241

REGISTERED ELECTRICAL ENGINEER DATE 12-2-09

CHI WU No. 10773 Exp. 6-30-11 ELEC STATE OF CALIFORNIA

6-21-10 PLANS APPROVAL DATE

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ABBREVIATIONS

A	AMPERES
A/C	AIR CONDITIONING UNIT
ACS	AIR COMPRESSOR STARTER
AI	ANALOG INPUT
AL	ALARM LIGHT
AO	ANALOG OUTPUT
AVC	AIR VOLUME CONTROLLER
BD	BUILDING DISCONNECT
BRK	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CSW	CURRENT SWITCH
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DUPLEX PLUG RECEPTACLE
DS	DOOR SWITCH
(E)	EXISTING
EF	EXHAUST FAN
F	FUSE
FLA	FLASHER
FLEX	FLEXIBLE CONDUIT
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
JB	JUNCTION BOX
L	LIGHT
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LLC	LIQUID LEVEL CONTROLLER
MB	MAIN BREAKER
MC	METALLIC CONDUIT
MCP	MOTOR CIRCUIT PROTECTOR
MCC	MOTOR CONTROL CENTER
MSB	MAIN SWITCHBOARD
MT	EMPTY CONDUIT
(N)	NEW
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NSW	NEUTRAL SWITCHING BREAKER
OL	OVERLOAD
PB	PULL BOX
PB	PUSHBUTTON
PFR	PHASE FAILURE RELAY
PFRD	PHASE FAILURE RELAY DISCONNECT
PEC	PHOTOELECTRIC CELL
PL	PILOT LIGHT
PS	PRESSURE SWITCH
PTS	POWER TRANSFER SWITCH
PVC	POLYVINYL CHLORIDE
RES	RESISTOR
RTB	RADIO TERMINAL BOARD
SD	STARTER COIL
S	SERVICE DISCONNECT
SFR	SEAL FAILURE RELAY
SL	SUMP LIGHT
SPR	STANDBY POWER RECEPTACLE
ST	STARTER
SV	SOLENOID VALVE
T	TRANSFORMER
TB	TERMINAL BLOCK
TDR	TIME DELAY RELAY
TM	TIME METER
TS	TIMER SWITCH
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
WH	WATT-HOUR METER
WP	WEATHERPROOF

CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Bill Robertson*
BILL ROBERTSON CSFM III
Approval date: 11-04-09

CSFM# 01-37-11-0033

DESIGN	BY	Johnny Wu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA	SHEET EEO-0	
	DETAILS	BY	Kathi Andreasen	CHECKED			Johnny Wu	POST MILE			R59.4/R60.0
	QUANTITIES	BY	Johnny Wu	CHECKED			Tech Ngov	LEGEND			

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

CU 11340 EA 261401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)							
7/25/06	2/5/08	4/6/08	4/28/08	6/4/08	8/16/08	12/2/08	10/9/08

SHEET OF

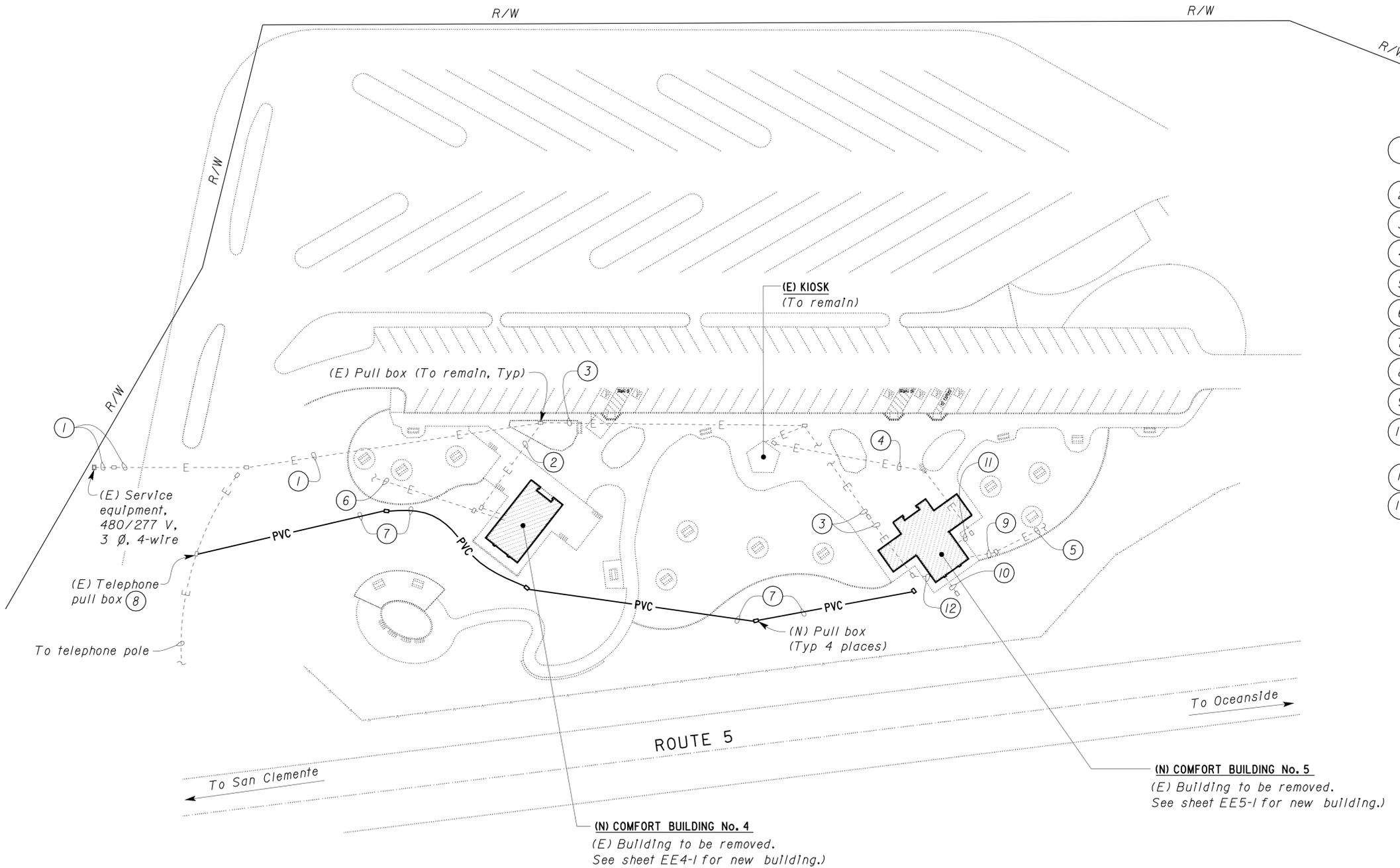
DOES SD Imperial Rev. 1/07

24-JUN-2010 10:28 eeo_00.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4/R60.0	211	241

<i>Chi Wu</i> REGISTERED ELECTRICAL ENGINEER	12-2-09 DATE	
6-21-10 PLANS APPROVAL DATE		

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Notes:

- 1 Existing 1/2" C, 3*1/0 (Building No. 4 feeder), 2" C, 4*2/0 (Building No. 5 feeder), 1" C (Lighting), to remain.
- 2 Existing 1/2" C, 3*1/0 (Building No. 4 feeder), to remain.
- 3 Existing 2" C, 4*2/0 (Building No. 5 feeder), to remain.
- 4 Existing 3/4" C, 2*12 (Telephone booth light), to remain.
- 5 Existing 1/2" C, 4*6, 1*8G (Water system), to remain.
- 6 Existing 3/4" C, 2*12 (Remote alarm light of sewage lift station).
- 7 New 2" C, 1-25 pair telephone cable.
- 8 Coordinate with telephone company to splice telephone cable.
- 9 Existing 1/2" C, 4*6, 1*8G. Remove conductors, abandon conduit.
- 10 2" C, MT, for Irrigation conductors. See Irrigation Plan Sheet IP-1 for Location of Irrigation Controller IC-A'.
- 11 Existing 1/2" C, 4*10, 1*12G. Remove conductors, abandon conduit.
- 12 Existing 2" C, 4*2/0, 1*6G. Remove conductors, abandon conduit.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Bill Robertson*
 BILL ROBERTSON DSFM III
 Approval date: 11-04-09

CSFM# 01-37-11-0033

Staging Notes:

1. **Stage #1:**
Turn off and lock the feeder breaker for existing Building No. 4, located in existing service equipment, at northwest side of the rest area. Demolish existing Building No. 4 and replace with new Building No. 4. Turn on the power to the new Building No. 4.
2. **Stage #2:**
Turn off and lock the feeder breaker for existing Building No. 3, located in existing service equipment at northwest side of the rest area. Demolish existing Building No. 3 and replace with new Building No. 5. Turn on the power to the new Building No. 5.
3. **Stages #1 and #2:**
Electrical power to Kiosk shall be maintained at all times.

PLAN
SCALE 1" = 40'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

Paul Schreff
DESIGN SUPERVISOR
Mark Chap
DESIGN ENGINEER

DESIGN	BY Johnny Wu	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Johnny Wu
QUANTITIES	BY Johnny Wu	CHECKED Tech Ngov

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 57R0001R/L
POST MILE R59.4/R60.0

ALISO CREEK SAFETY ROADSIDE REST AREA
NORTHBOUND
ELECTRICAL SITE PLAN

SHEET **EE0-1**

DOES SD Imperial Rev. 1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 11340
EA 261401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)							
5/7/07	6/7/07	8/16/07	10/14/07	10/26/07	12/2/07	2/9/08	4/6/08

SHEET OF

ee0_01.dgn

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General Note:

A. Coordinate with Utility Company for all work related to service equipment removal.

Notes:

- ① Existing light fixture and pull box to be removed.
- ② 1" C, 2*8, 2*4, 1*8G, to existing lighting (Rest Area) and lighting (Off-ramp).
- ③ 1 1/2" C, 2*8, 1*8G, to existing lighting (On-ramp).
- ④ Existing pull box, remove.
- ⑤ Existing pull box to remain.
- ⑥ Disconnect and remove existing utility feeder and conduit.
- ⑦ To metering panel for Kiosk.
- ⑧ 1" C, 3*6, 1*8G.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4/R60.0	212	241


 REGISTERED ELECTRICAL ENGINEER 12-2-09 DATE



6-21-10
 PLANS APPROVAL DATE

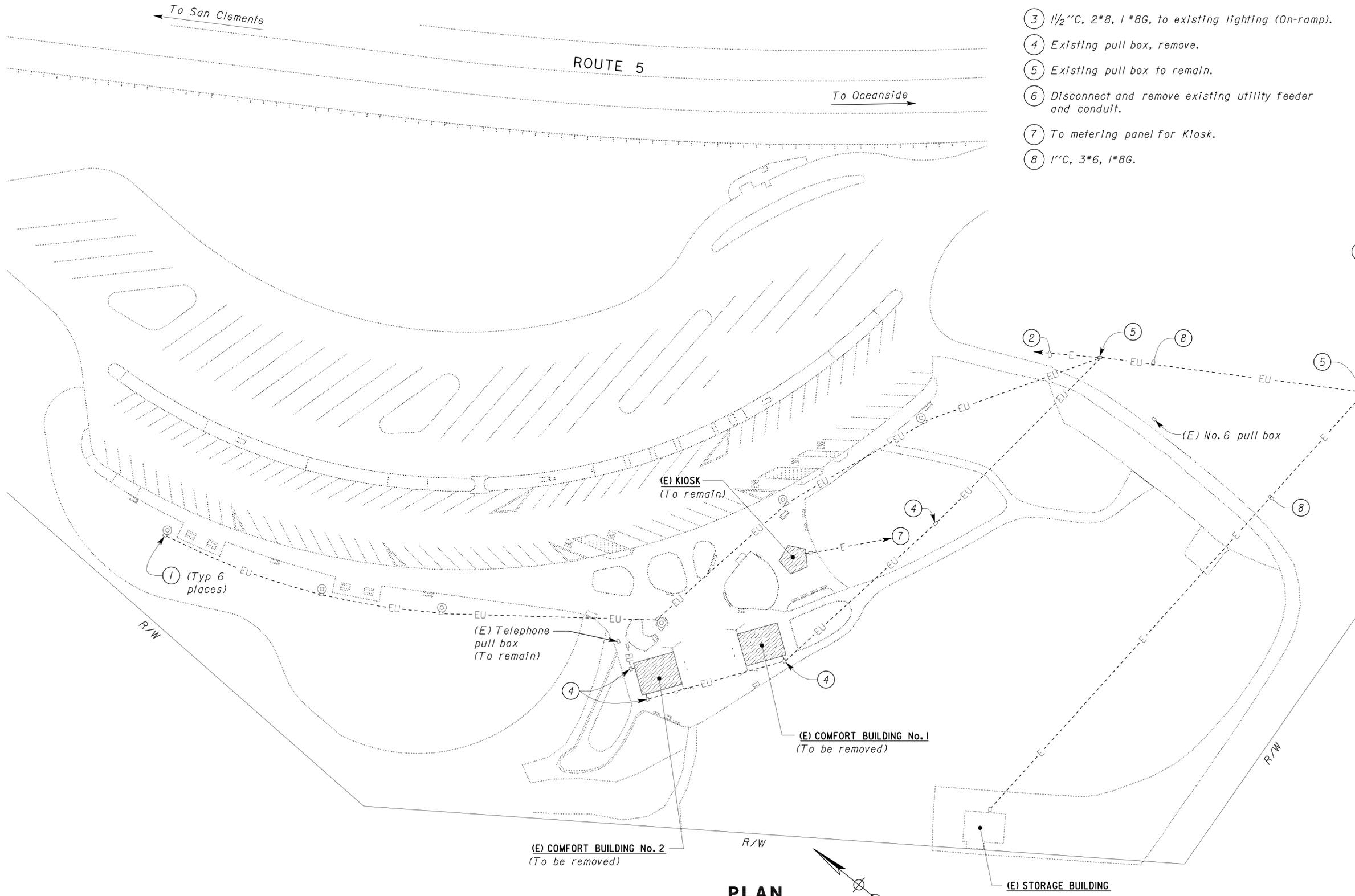
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Reviewed by: 
 BILL ROBERTSON DSFM III
 Approval date: 11-04-09

CSFM# 01-37-11-0033



Remove (E) pedestal mounted 200-ampere service equipment and foundation

(E) Utility transformer

(E) No. 6 pull box

- Staging Notes:
1. Stage #1:
Turn off and lock the feeder breaker for existing Building No.1, located in existing service equipment, at southeast side of the rest area. Demolish existing Building No.1 and replace with new Building No.1. Install Building No.2. Install pole-top luminaires, install bollard luminaires, install conduits and wires, and replace existing service equipment with new service equipment, as shown on plan sheet EEO-3. Turn on power to Buildings No.1 and No.2, and pole-top luminaires and bollard luminaires.
 2. Stage #2:
Demolish existing Building No.2 and replace with new Building No.3. Turn on the power to the new Building No.3. Remove existing area light fixtures, existing pull boxes, wires, and abandon conduits, as shown on this sheet.
 3. Stages #1 and #2:
Electrical power to Kiosk shall be maintained at all times.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

PLAN
SCALE 1" = 40'-0"

DESIGN BY Johnny Wu CHECKED Tech Ngov	DETAILS BY Kathl Andreasen CHECKED Johnny Wu	QUANTITIES BY Johnny Wu CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		BRIDGE NO. 57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA		SHEET EEO-2
					POST MILE R59.4/R60.0		SOUTHBOUND	ELECTRICAL REMOVAL SITE PLAN		
					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES		

DOES SD Imperial Rev. 1/07 ee0_02.dgn

General Note:

All MC conduits shall be PVC coated rigid steel conduit.

Notes:

- 1 3''C, 3*2/0, 1*4G, 3''C, 6*2/0, 1*4G, and 3''C, 3*6, 6*8, 2*4, 1*6G.
- 2 3''C, 6*2/0, 1*4G, 3''C, 3*2/0, 1*4G, and 2''C, 2*4, 4*8, 1*4G.
- 3 1/2''C, 2*8, 1*8G.
- 4 3''C, 3*2/0, 1*4G, 2*8, 1*8G, and 3''C, 6*2/0, 1*4G.
- 5 3''C, 6*2/0, 1*4G.
- 6 2''C, 3*2/0, 1*4G.
- 7 2''C, 1-6 pair telephone cable.
- 8 1''C, MT (For future CCTV system).
- 9 Coordinate with telephone company to splice telephone cable.
- 10 Pole-top luminaire (Total 10), for detail see sheet EE6-7.
- 11 Bollard luminaire (Total 8), for detail see sheet EE6-7.
- 12 For continuation see "PLAN", this sheet.
- 13 Splice existing to new conductors inside pull box.

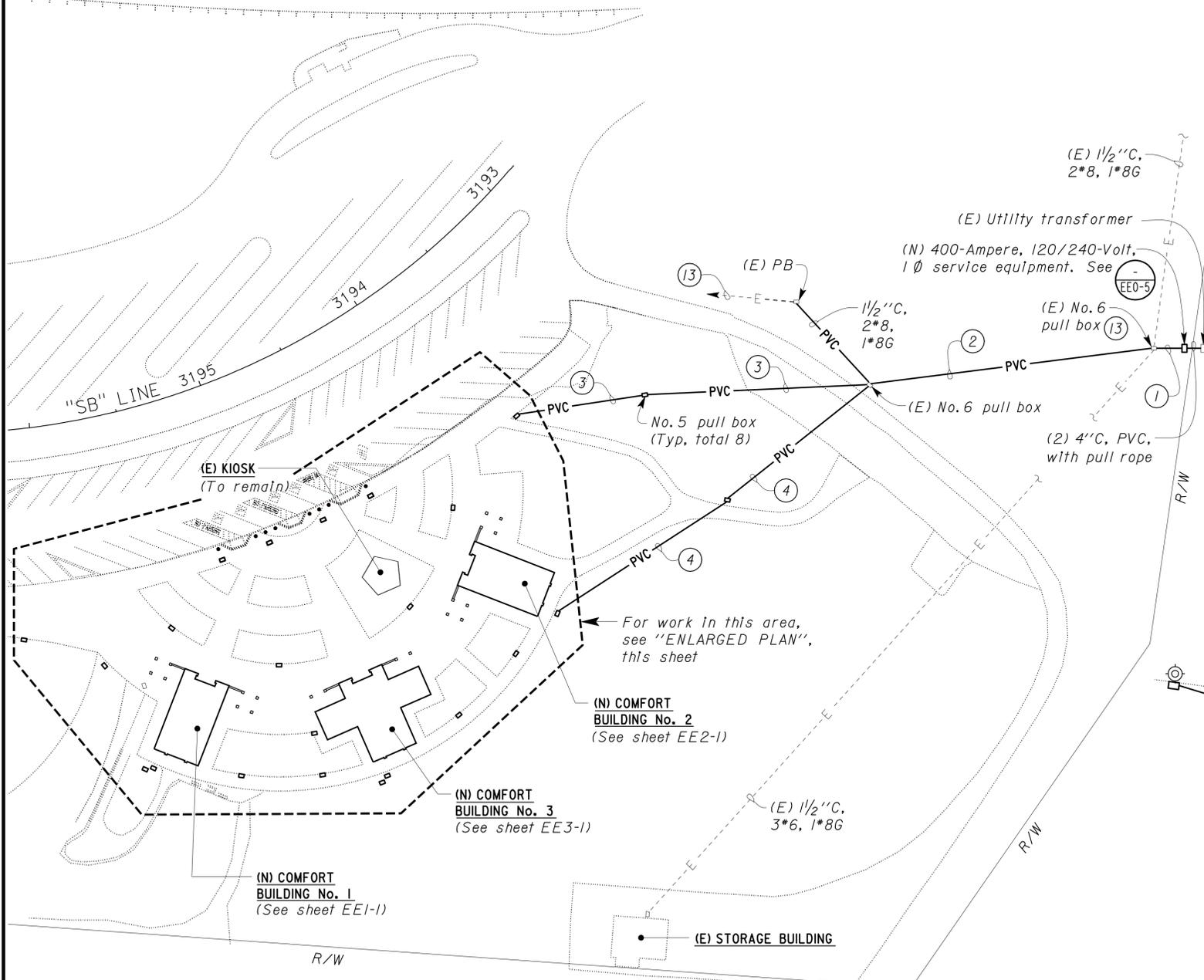
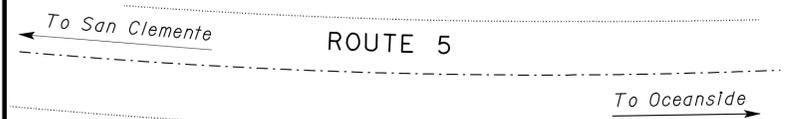
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4/R60.0	213	241

REGISTERED ELECTRICAL ENGINEER
 CHI WU
 No. 10773
 Exp. 6-30-11
 ELEC
 STATE OF CALIFORNIA

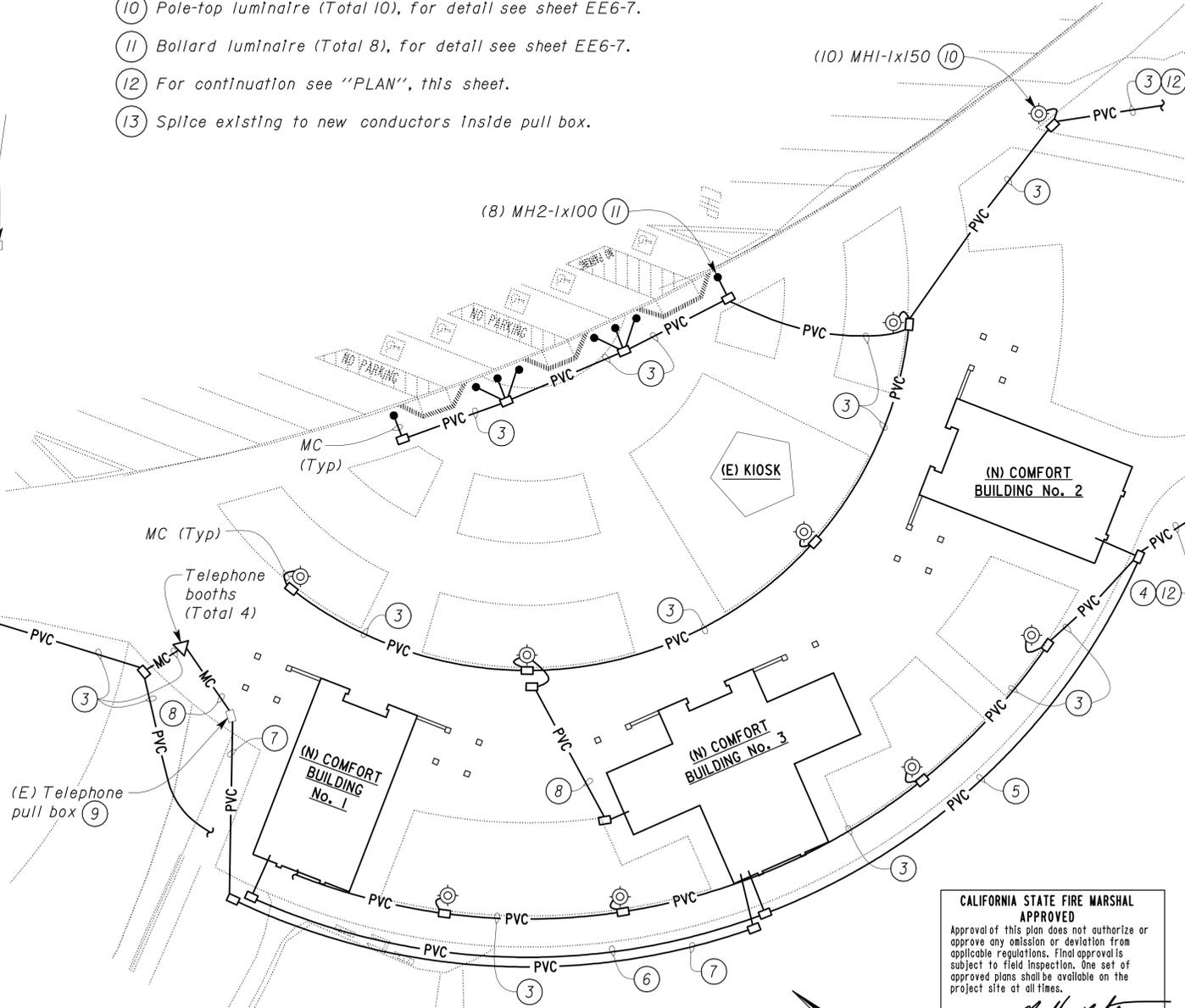
12-2-09
 DATE

6-21-10
 PLANS APPROVAL DATE

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PLAN
 SCALE 1" = 40'-0"



ENLARGED PLAN
 SCALE 1" = 20'-0"

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Bill Robertson*
 BILL ROBERTSON DSFM III
 Approval date: 11-04-09
 CSFM# 01-37-11-0033

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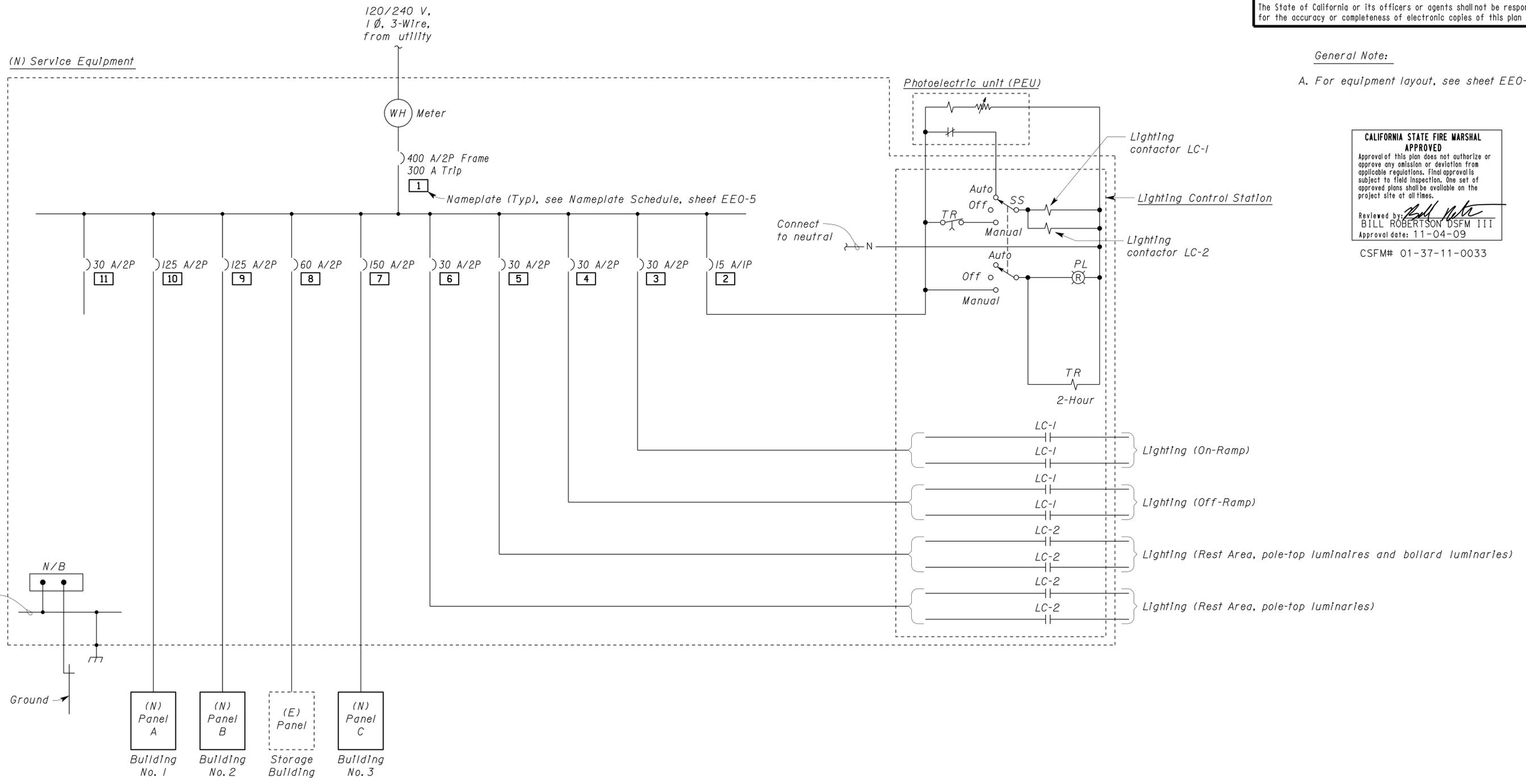
DESIGN	BY	Johnny Wu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	ALISO CREEK SAFETY ROADSIDE REST AREA		SHEET
	DETAILS	Kathl Andreasen	CHECKED	Johnny Wu			57R0001R/L	MODIFIED SITE PLAN		EE0-3
	QUANTITIES	Johnny Wu	CHECKED	Tech Ngov			POST MILE	SOUTHBOUND		
					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES			SHEET OF
					0 1 2 3		REVISION DATES (PRELIMINARY STAGE ONLY)			
							5/7/07 2/9/08 3/26/09 4/16/09 4/23/09 5/18/09 6/14/09 8/16/09 10/14/09 12/2/09			

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4/R60.0	214	241

<i>Chi Wu</i>	12-2-09
REGISTERED ELECTRICAL ENGINEER	DATE

6-21-10
PLANS APPROVAL DATE

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General Note:
A. For equipment layout, see sheet EE0-5.

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BILL ROBERTSON CSFM III
Approval date: 11-04-09
CSFM# 01-37-11-0033

SINGLE LINE DIAGRAM

DESIGN	BY Johnny Wu	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Johnny Wu
QUANTITIES	BY Johnny Wu	CHECKED Tech Ngov

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

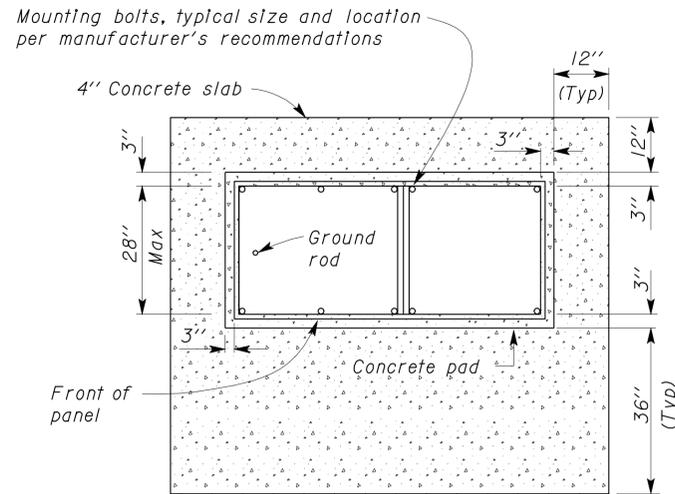
BRIDGE NO. 57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA	SHEET EE0-4
POST MILE R59.4/R60.0	SOUTHBOUND	
SINGLE LINE DIAGRAM		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4/R60.0	215	241


 REGISTERED ELECTRICAL ENGINEER DATE 12-2-09
 6-21-10
 PLANS APPROVAL DATE

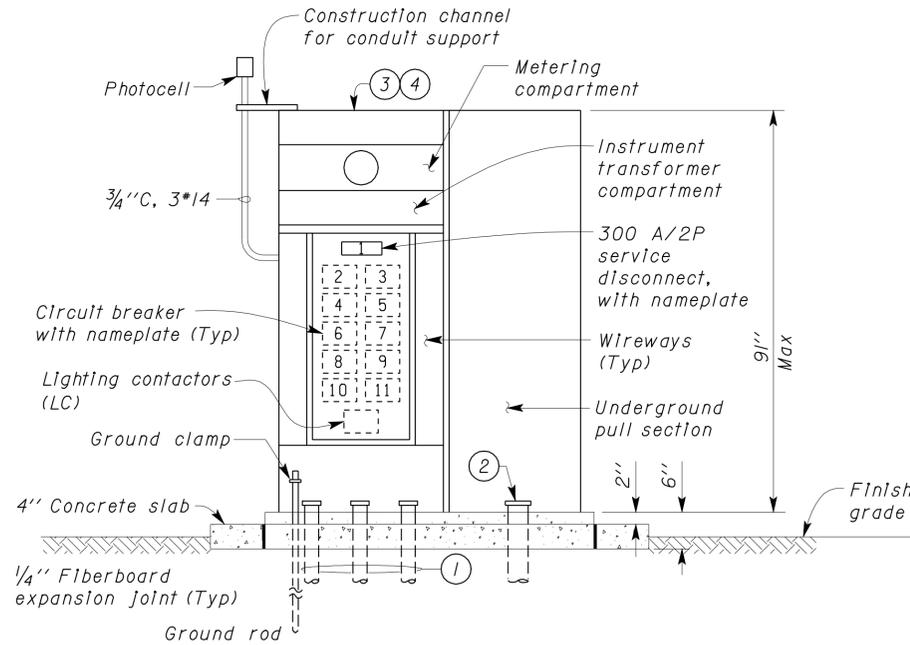


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PLAN

NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT
1	Service Disconnect	1/4"
2	Lighting Control	1/4"
3	Lighting (On Ramp)	1/4"
4	Lighting (Off Ramp)	1/4"
5	Lighting (Rest Area)	1/4"
6	Lighting (Rest Area)	1/4"
7	Building No. 3	1/4"
8	Storage Building	1/4"
9	Building No. 2	1/4"
10	Building No. 1	1/4"
11	Spare	1/4"



ELEVATION
SERVICE EQUIPMENT

NO SCALE

Note:

Dimensions of service equipment are approximate only. Service equipment elevation shown without weatherproof enclosure.

Notes:

- Conduit system as required.
- (2) 4" C, PVC, with pull rope, to transformer. Installed by the Contractor to meet utility company's requirements.
- The weatherproof enclosure of service equipment shall have provision for Caltrans and utility company's locks.
- Service equipment section by the Contractor to meet utility company's requirements.

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 Reviewed by: 
 BILL ROBERTSON DSFM III
 Approval date: 11-04-09
 CSFM# 01-37-11-0033

DESIGN	BY Johnny Wu	CHECKED Tech Ngov
DETAILS	BY Linda Monson	CHECKED Johnny Wu
QUANTITIES	BY Johnny Wu	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	57R0001R/L
POST MILE	R59.4/R60.0

ALISO CREEK SAFETY ROADSIDE REST AREA
 SOUTHBOUND
SERVICE EQUIPMENT DETAILS

SHEET
EE0-5

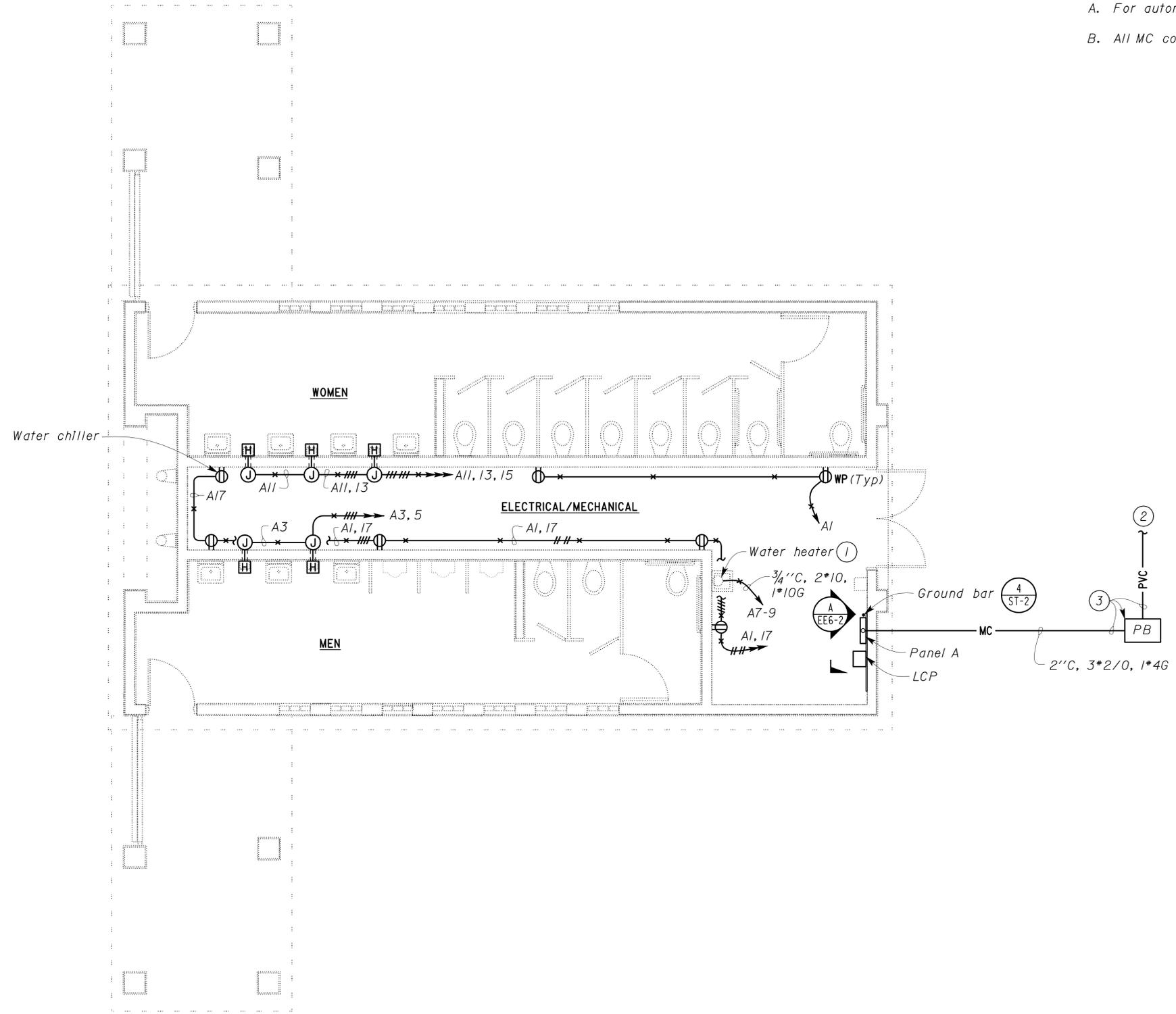
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4/R60.0	216	241
 REGISTERED ELECTRICAL ENGINEER			12-2-09 DATE		
6-21-10 PLANS APPROVAL DATE					
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General Notes:

- A. For automatic flush system plan, see sheet EE1-3.
- B. All MC conduits shall be PVC coated rigid steel conduit.

Notes:

- ① For exact location, see Mechanical plans.
- ② For continuation, see sheet EE0-3.
- ③ This conduit and pull box also shown on sheet EE0-3.



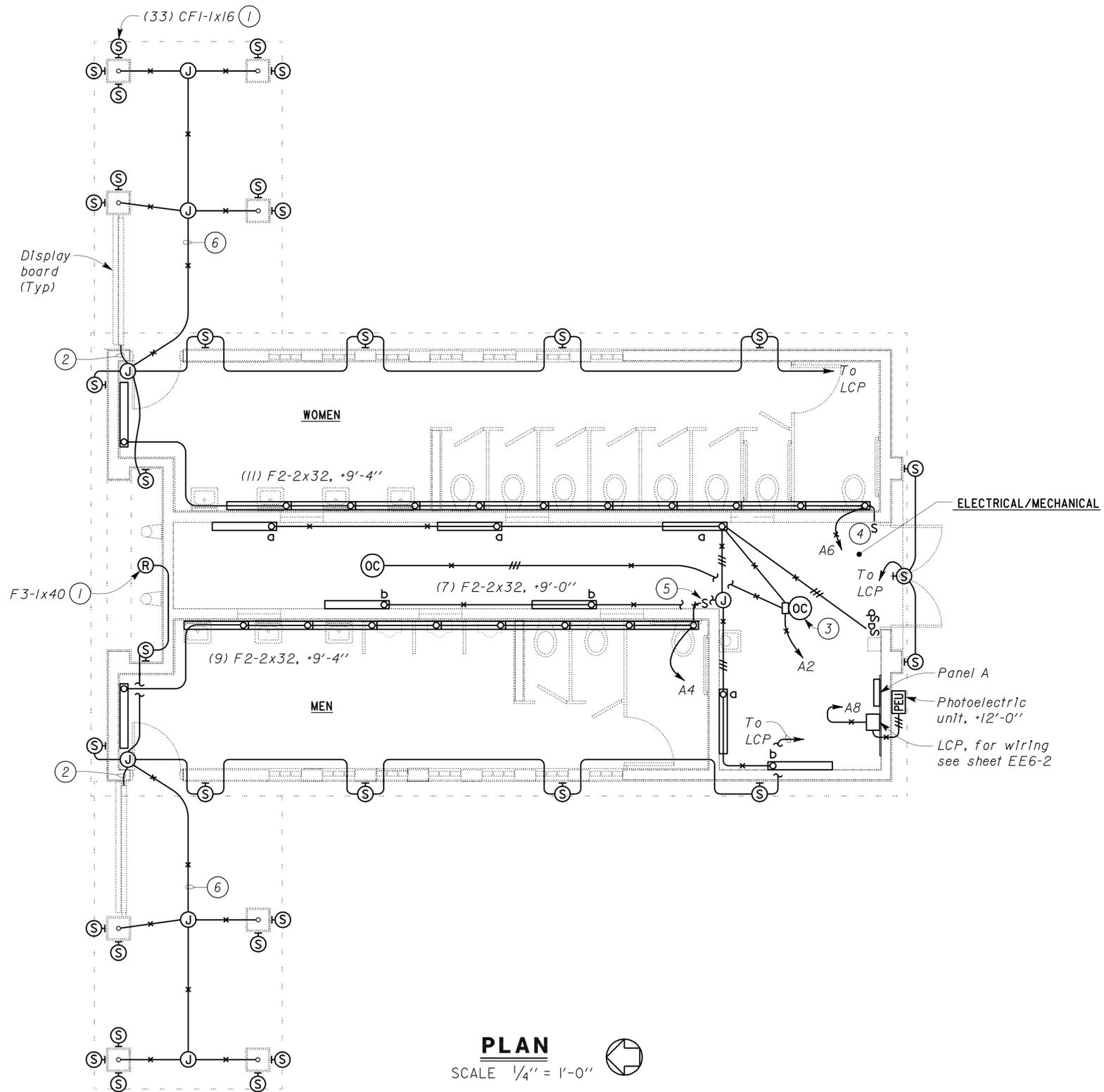
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 CSFM# 01-37-11-0033

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

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DESIGN BY <i>Johnny Wu</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA		SHEET EE1-1					
				POST MILE R59.4/R60.0	SOUTHBOUND NEW BUILDING I	POWER PLAN	OF					
DETAILS BY <i>Kathl Andreasen</i>	CHECKED <i>Johnny Wu</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES →				REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET			
QUANTITIES BY <i>Johnny Wu</i>	CHECKED <i>Tech Ngov</i>			10/7/08	10/8/08	11/7/08	12/3/08	2/3/09	4/16/09	5/7/09	6/7/09	8/16/09

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4/R60.0	217	241
			REGISTERED ELECTRICAL ENGINEER	12-2-09	DATE
			6-21-10	PLANS APPROVAL DATE	
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- Notes:
- (1) For exact location and mounting height, see Architectural plans.
 - (2) Conduit and wire for display board lights.
 - (3) Occupancy sensor and power pack. For wiring diagram, see sheet EE6-2.
 - (4) Install nameplate for switch, "WOMEN'S RESTROOM LIGHTING".
 - (5) Install nameplate for switch, "MEN'S RESTROOM LIGHTING".
 - (6) All conduits shall be installed on top of trellis and painted to match the trellis.

CALIFORNIA STATE FIRE MARSHAL
APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Bill Robertson*
BILL ROBERTSON DSFM III
 Approval date: 11-04-09
 CSFM# 01-37-11-0033

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

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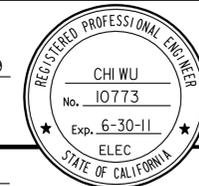
DESIGN	BY	Johnny Wu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	ALISO CREEK SAFETY ROADSIDE REST AREA		SHEET EE1-2										
	DETAILS	BY	Kathl Andreasen	CHECKED			Johnny Wu	57R0001R/L	SOUTHBOUND NEW BUILDING I											
	QUANTITIES	BY	Johnny Wu	CHECKED			Tech Ngov	POST MILE	LIGHTING PLAN											
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0	1	2	3	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF						
DOES SD Imperial Rev. 1/07											10/7/08	8/16/09	12/2/09	2/8/09	3/4/09	3/9/09	4/16/09	5/19/09	6/4/09	ee1_02.dgn

General Note:

For wiring details of automatic flush system, see sheet EE6-3.

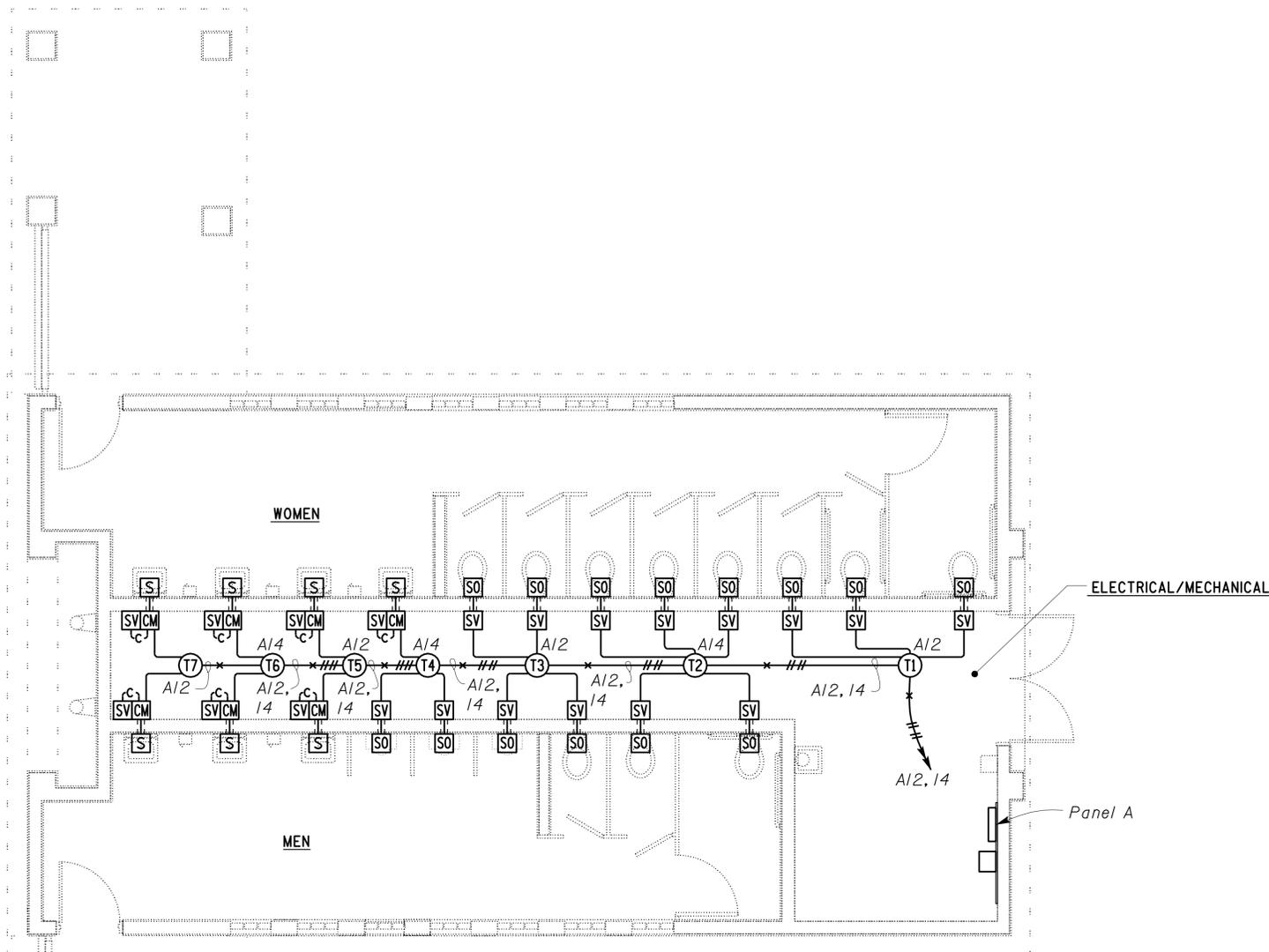
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4/R60.0	218	241

Chi Wu
REGISTERED ELECTRICAL ENGINEER DATE 12-2-09



6-21-10
PLANS APPROVAL DATE

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BILL ROBERTSON DSFM III
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CSFM# 01-37-11-0033

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

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DESIGN	BY <i>Johnny Wu</i>	CHECKED <i>Tech Ngov</i>
DETAILS	BY <i>Kathl Andreasen</i>	CHECKED <i>Johnny Wu</i>
QUANTITIES	BY <i>Johnny Wu</i>	CHECKED <i>Tech Ngov</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 57R0001R/L
POST MILE R59.4/R60.0

ALISO CREEK SAFETY ROADSIDE REST AREA
SOUTHBOUND NEW BUILDING I
AUTOMATIC FLUSH SYSTEM PLAN

SHEET **EE1-3**

DOES SD Imperial Rev.1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 11340
EA 261401

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	10/7/08 10/8/08 12/3/08 2/3/09 3/7/09 4/16/09 5/18/09 6/7/09 8/16/09 12/2/09	

ee1_03.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4/R60.0	219	241

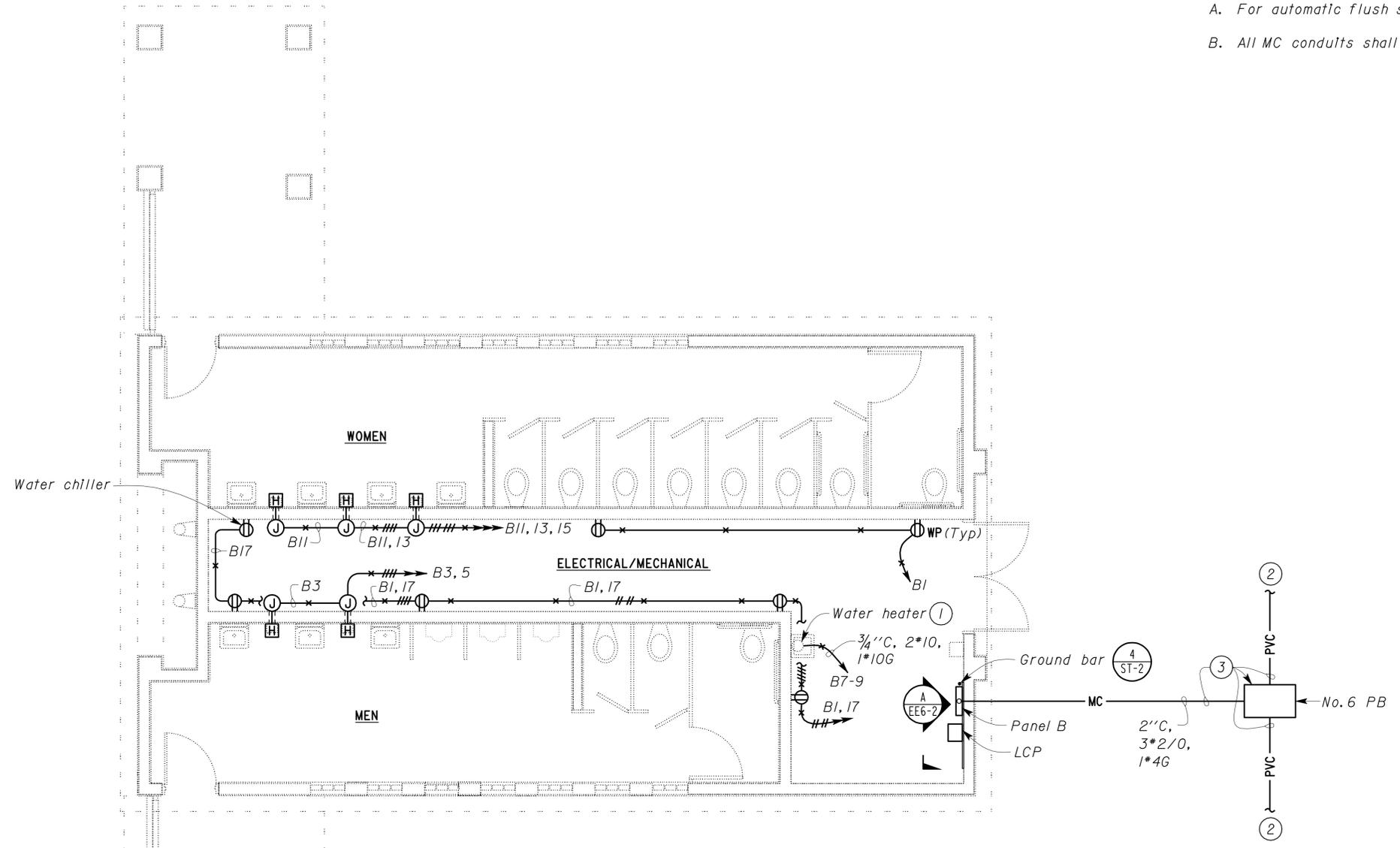
 REGISTERED ELECTRICAL ENGINEER	12-2-09 DATE	
6-21-10 PLANS APPROVAL DATE		

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

General Notes:

A. For automatic flush system plan, see sheet EE2-3.

B. All MC conduits shall be PVC coated rigid steel conduit.



- Notes:
- ① For exact location, see Mechanical plans.
 - ② For continuation, see sheet EE0-3.
 - ③ This conduit and pull box also shown on sheet EE0-3.

CALIFORNIA STATE FIRE MARSHAL
APPROVED
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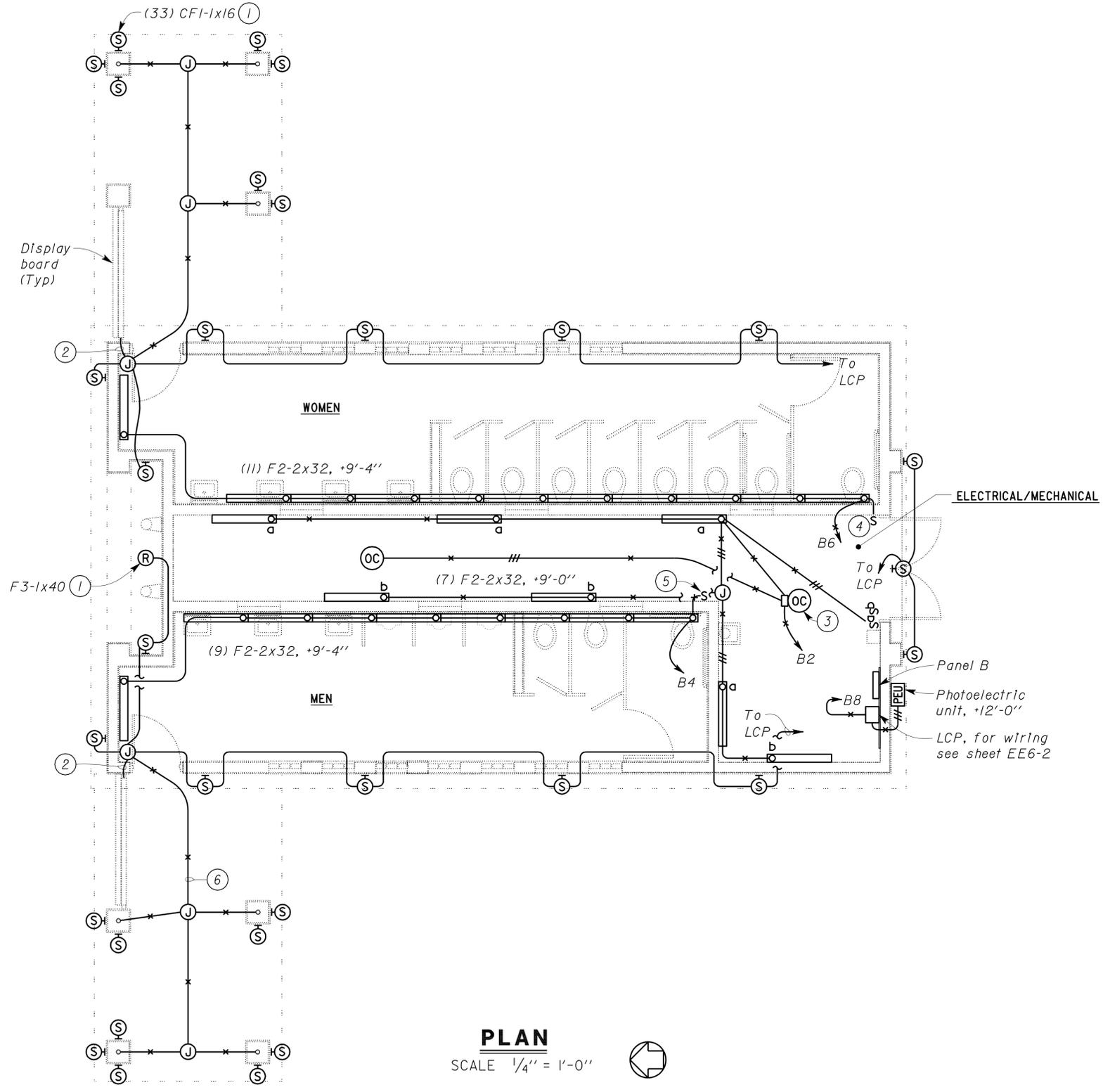
Reviewed by: 
 BILL ROBERTSON DSFM III
 Approval date: 11-04-09
 CSFM# 01-37-11-0033

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

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DESIGN	BY	Johnny Wu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	ALISO CREEK SAFETY ROADSIDE REST AREA		SHEET EE2-1	
	DETAILS	BY	Kathl Andreasen	CHECKED			Johnny Wu	57R0001R/L	SOUTHBOUND NEW BUILDING 2		
QUANTITIES	BY	Johnny Wu	CHECKED	Tech Ngov	POST MILE	R59.4/R60.0	POWER PLAN		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	10/7/08 11/15/08 12/4/08 2/9/09 4/16/09 5/19/09 6/7/09 8/16/09 12/2/09

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4/R60.0	220	241
			REGISTERED ELECTRICAL ENGINEER	12-2-09	DATE
			6-21-10	PLANS APPROVAL DATE	
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- Notes:
- For exact location and mounting height, see Architectural plans.
 - Conduit and wire for display board lights.
 - Occupancy sensor and power pack. For wiring diagram, see sheet EE6-2.
 - Install nameplate for switch, "WOMEN'S RESTROOM LIGHTING".
 - Install nameplate for switch, "MEN'S RESTROOM LIGHTING".
 - All conduits shall be installed on top of trellis and painted to match the trellis.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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BILL ROBERTSON DSFM III
 Approval date: 11-04-09
 CSFM# 01-37-11-0033

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DESIGN	BY	Johnny Wu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	ALISO CREEK SAFETY ROADSIDE REST AREA		SHEET EE2-2	
	DETAILS	BY	Kathl Andreasen	CHECKED			Johnny Wu	57R0001R/L	SOUTHBOUND NEW BUILDING 2		
QUANTITIES	BY	Johnny Wu	CHECKED	Tech Ngov	POST MILE	R59.4/R60.0	LIGHTING PLAN		OF		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET
DOES SD Imperial Rev. 1/07					CU 11340 EA 261401			10/7/08 6/7/09 8/18/09 12/2/09 3/9/09 3/19/09 4/15/09 4/23/09 5/19/09		OF	

24-JUN-2010 10:29 ee2_02.dgn

General Note:

For wiring details of automatic flush system, see sheet EE6-3.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4/R60.0	221	241

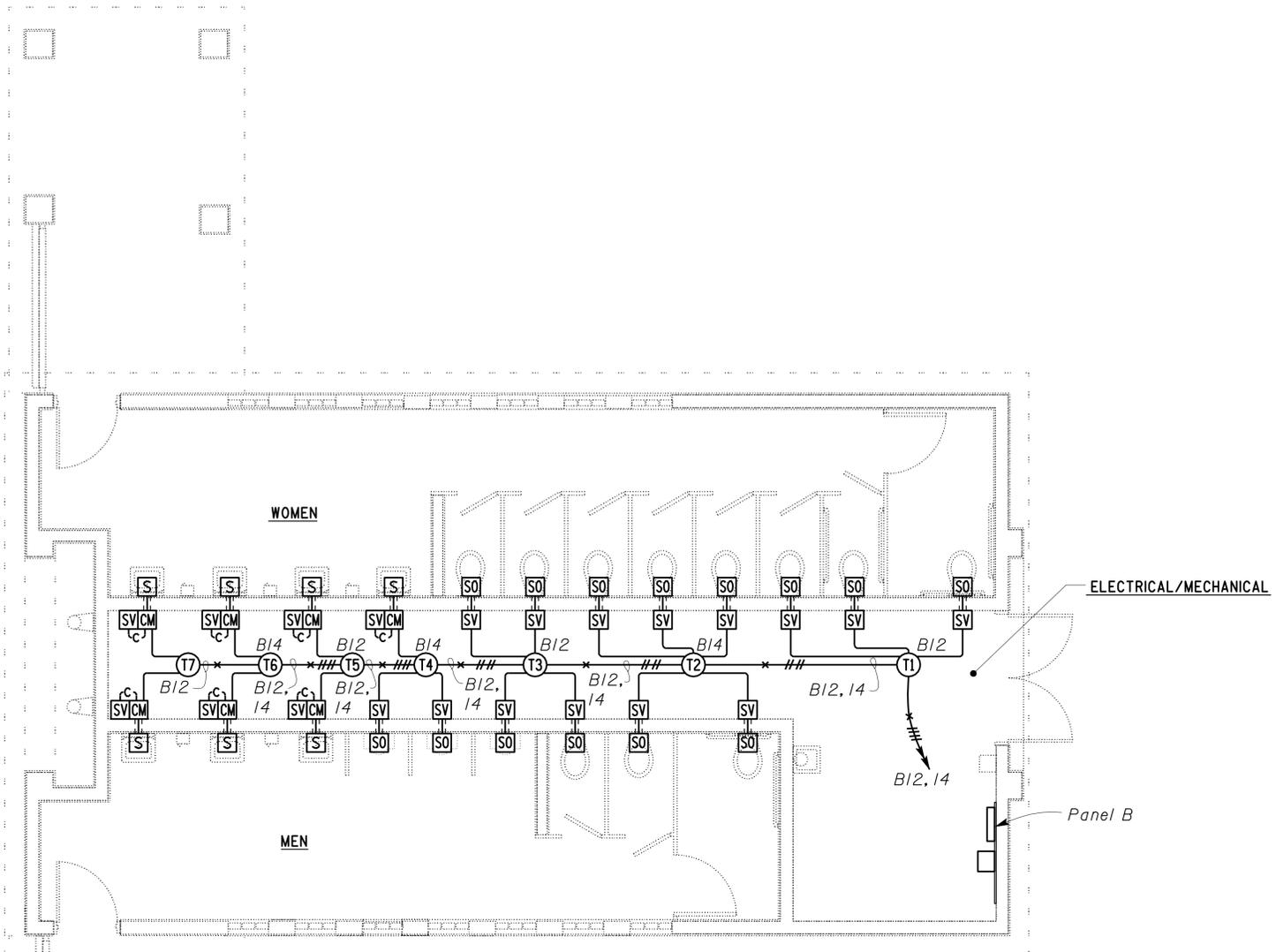

 REGISTERED ELECTRICAL ENGINEER DATE 12-2-09
 6-21-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CHI WU
 No. 10773
 Exp. 6-30-11
 ELEC
 STATE OF CALIFORNIA

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CALIFORNIA STATE FIRE MARSHAL
APPROVED
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Reviewed by: 
 BILL ROBERTSON DSFM III
 Approval date: 11-04-09
 CSFM# 01-37-11-0033

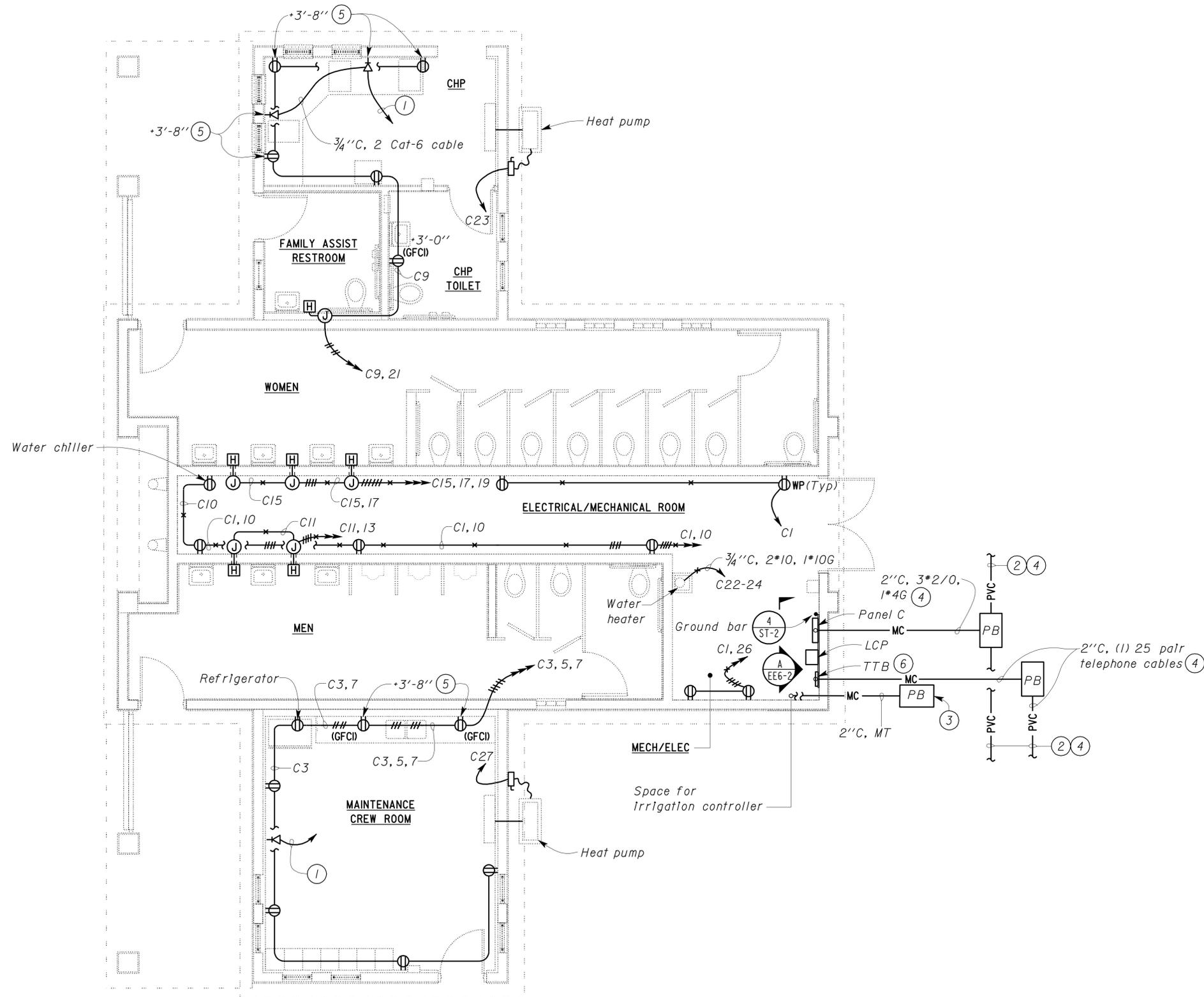


PLAN
 SCALE 1/4" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Johnny Wu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA		SHEET EE2-3
			POST MILE R59.4/R60.0	SOUTHBOUND NEW BUILDING 2	AUTOMATIC FLUSH SYSTEM PLAN	
DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Johnny Wu</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY <i>Johnny Wu</i> CHECKED <i>Tech Ngov</i>	0 1 2 3		10/7/08 12/2/09 2/10/09 3/4/09 4/13/09 4/23/09 5/19/09 6/7/09 8/18/09			

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	222	241
 REGISTERED ELECTRICAL ENGINEER			12-2-09 DATE		
6-21-10 PLANS APPROVAL DATE					
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- General Notes:**
- A. For automatic flush system plan, see sheet EE3-3.
 - B. All MC conduits shall be PVC coated rigid steel conduit.

- Notes:**
- ① 1" C, 4 Category 6 cables, to TTB.
 - ② For continuation, see sheet EE0-3.
 - ③ See Irrigation Plan Sheets IP-3 and IP-4 for location of Irrigation Controller IC-'B'.
 - ④ This conduit and pull box also shown on sheet EE0-3.
 - ⑤ Dimension is measured to the bottom of outlet.
 - ⑥ Telephone terminal board (TTB) to be installed by Telephone Company.

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PLAN
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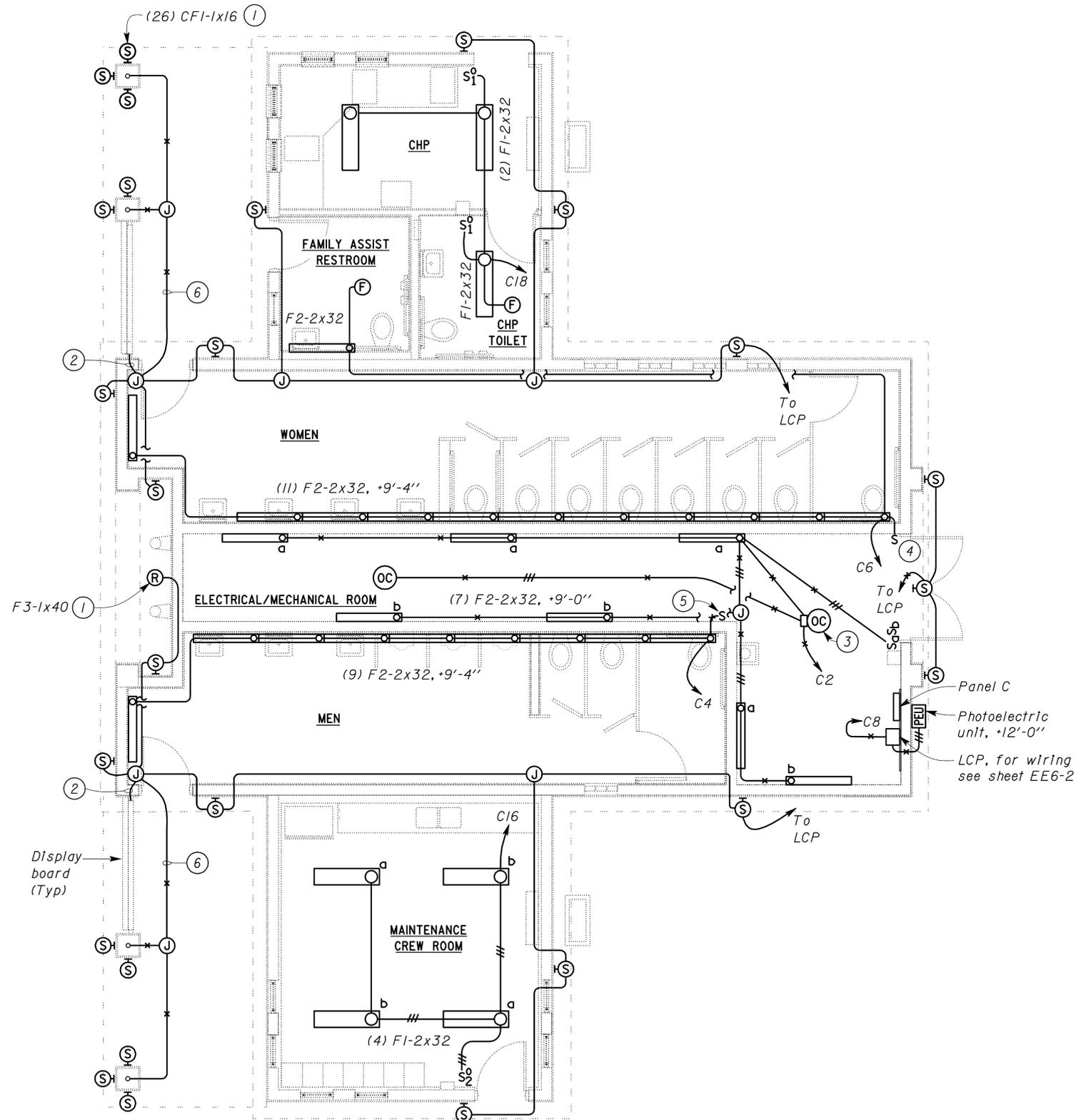
THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Johnny Wu	CHECKED Tech Ngov
DETAILS	BY Andreasen/Monson	CHECKED Johnny Wu
QUANTITIES	BY Johnny Wu	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA		SHEET EE3-1
POST MILE R59.4/R60.0	SOUTHBOUND NEW BUILDING 3	POWER AND COMMUNICATION PLAN	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	223	241
			REGISTERED ELECTRICAL ENGINEER	12-2-09	DATE
			CHI WU	No. 10773	Exp. 6-30-11
			ELEC STATE OF CALIFORNIA		
6-21-10 PLANS APPROVAL DATE					
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- Notes:
- For exact location and mounting height, see Architectural plans.
 - Conduit and wire for display board lights.
 - Occupancy sensor and power pack. For wiring diagram, see sheet EE6-2.
 - Install nameplate for switch, "WOMEN'S RESTROOM LIGHTING".
 - Install nameplate for switch, "MEN'S RESTROOM LIGHTING".
 - All conduits shall be installed on top of trellis and painted to match the trellis.

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 BILL ROBERTSON DSFM III
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 CSFM# 01-37-11-0033

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

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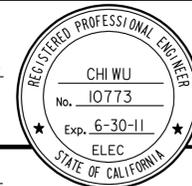
DESIGN BY Johnny Wu CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA		SHEET EE3-2							
			POST MILE R59.4/R60.0	SOUTHBOUND NEW BUILDING 3	LIGHTING PLAN								
DETAILS BY Andreasen/Monson CHECKED Johnny Wu	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)							
QUANTITIES BY Johnny Wu CHECKED Tech Ngov	0 1 2 3		1/14/08	2/16/08	3/7/08	3/7/08	3/7/08	4/15/08	5/19/08	6/7/08	8/16/08	12/2/08	SHEET OF

General Note:

For wiring details of automatic flush system, see sheet EE6-3.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	224	241

Chi Wu
REGISTERED ELECTRICAL ENGINEER DATE 12-2-09



6-21-10
PLANS APPROVAL DATE

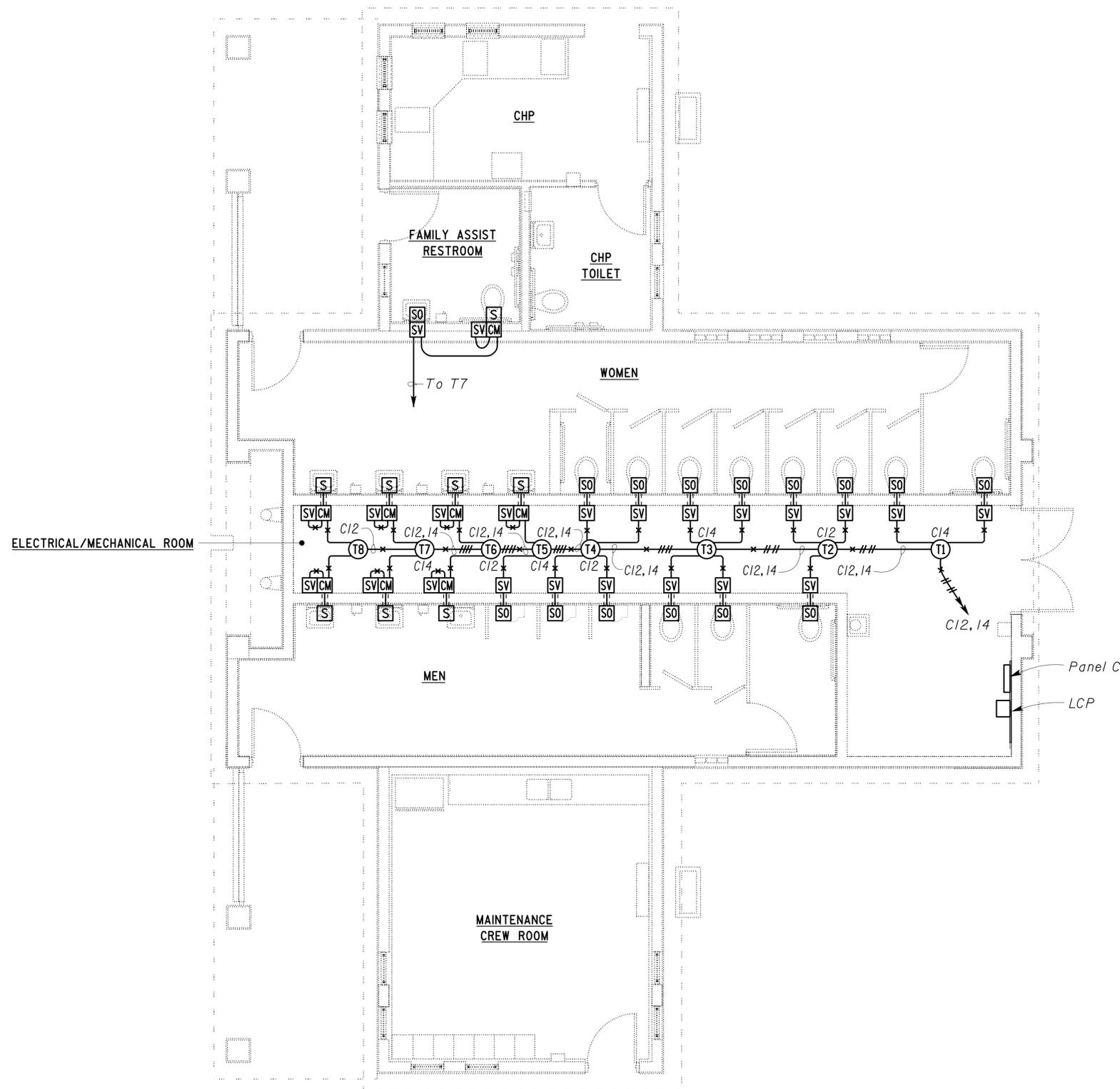
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BILL ROBERTSON DSFM III
Approval date: 11-04-09

CSFM# 01-37-11-0033



PLAN

SCALE 1/4" = 1'-0"



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DOES SD Imperial Rev. 1/07	DESIGN BY <i>Johnny Wu</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA	SHEET EE3-3
	DETAILS BY <i>Kathl Andreasen</i>	CHECKED <i>Johnny Wu</i>			POST MILE R59.4/R60.0		
	QUANTITIES BY <i>Johnny Wu</i>	CHECKED <i>Tech Ngov</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
			0 1 2 3			1/14/08 4/23/09 5/18/09 6/7/09 8/16/09 12/2/09 12/18/08 2/16/09 3/7/09	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	225	241

 REGISTERED ELECTRICAL ENGINEER DATE 12-2-09	
6-21-10 PLANS APPROVAL DATE	

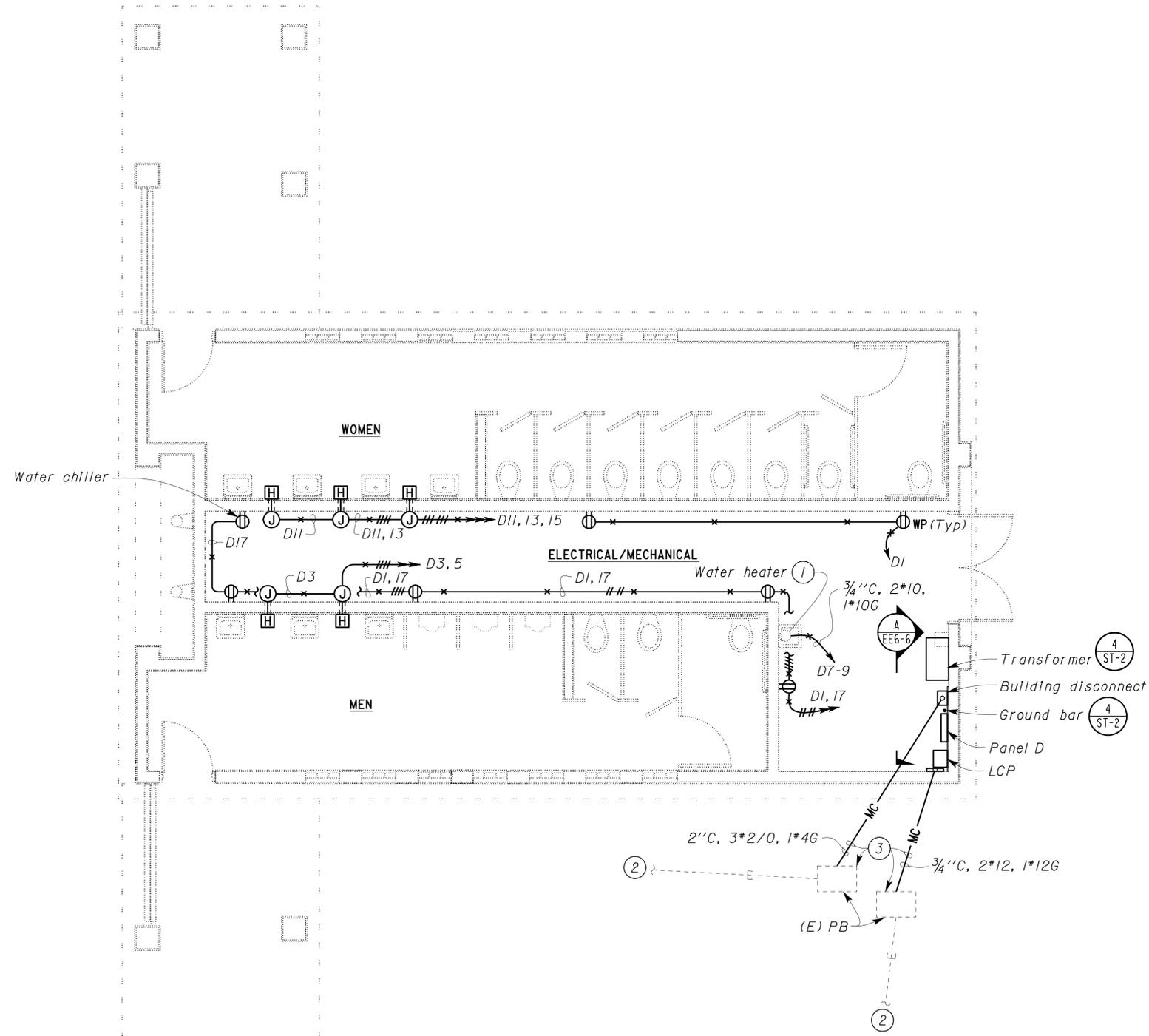
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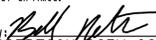
General Notes:

A. For automatic flush system plan, see sheet EE4-3.

B. All MC conduits shall be PVC coated rigid steel conduit.

- Notes:
- For exact location, see Mechanical plans.
 - For continuation, see sheet EE0-1.
 - This conduit and pull box also shown on sheet EE0-1.



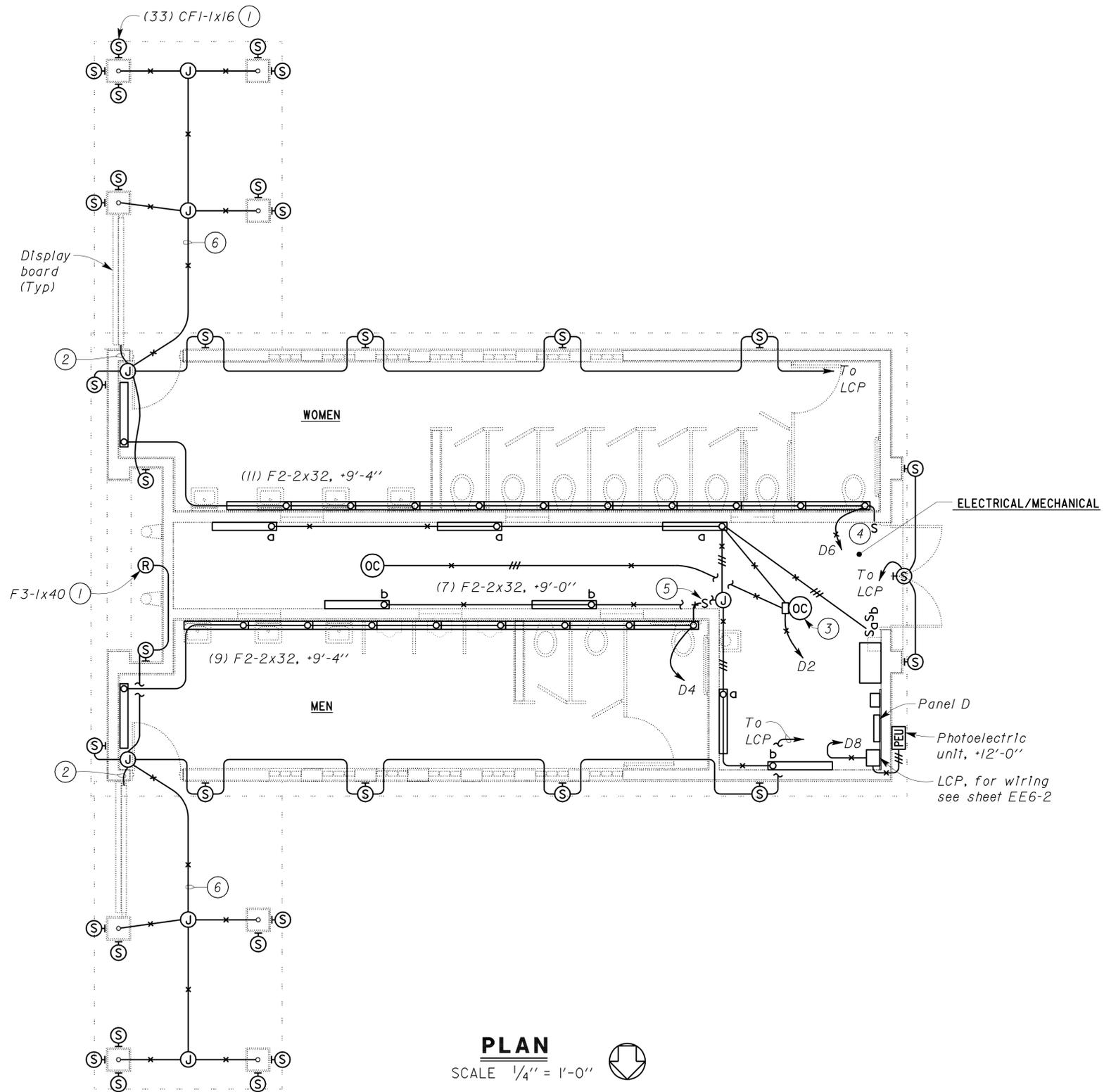
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PLAN
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DESIGN	BY Johnny Wu	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA	SHEET EE4-1
	DETAILS	BY Kathl Andreasen			CHECKED Johnny Wu		
QUANTITIES	BY Johnny Wu	CHECKED Tech Ngov	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	226	241
			REGISTERED ELECTRICAL ENGINEER	12-2-09	DATE
			CHI WU	No. 10773	Exp. 6-30-11
			ELEC STATE OF CALIFORNIA		
6-21-10					
PLANS APPROVAL DATE					
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- Notes:
- (1) For exact location and mounting height, see Architectural plans.
 - (2) Conduit and wire for display board lights.
 - (3) Occupancy sensor and power pack. For wiring diagram, see sheet EE6-2.
 - (4) Install nameplate for switch, "WOMEN'S RESTROOM LIGHTING".
 - (5) Install nameplate for switch, "MEN'S RESTROOM LIGHTING".
 - (6) All conduits shall be installed on top of trellis and painted to match the trellis.

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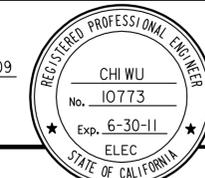
DESIGN	BY	Johnny Wu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	ALISO CREEK SAFETY ROADSIDE REST AREA		SHEET EE4-2			
	DETAILS	BY	Kathl Andreasen	CHECKED			Johnny Wu	POST MILE	NORTHBOUND NEW BUILDING 4		LIGHTING PLAN		
	QUANTITIES	BY	Johnny Wu	CHECKED			Tech Ngov	R59.4/R60.0					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0 1 2 3	CU 11340 EA 261401	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF			
DOES SD Imperial Rev. 1/07							DISREGARD PRINTS BEARING EARLIER REVISION DATES	6/19/09	7/30/09	10/14/09	12/2/09		

General Note:

For wiring details of automatic flush system, see sheet EE6-3.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	227	241

Chi Wu
REGISTERED ELECTRICAL ENGINEER DATE 12-2-09



6-21-10
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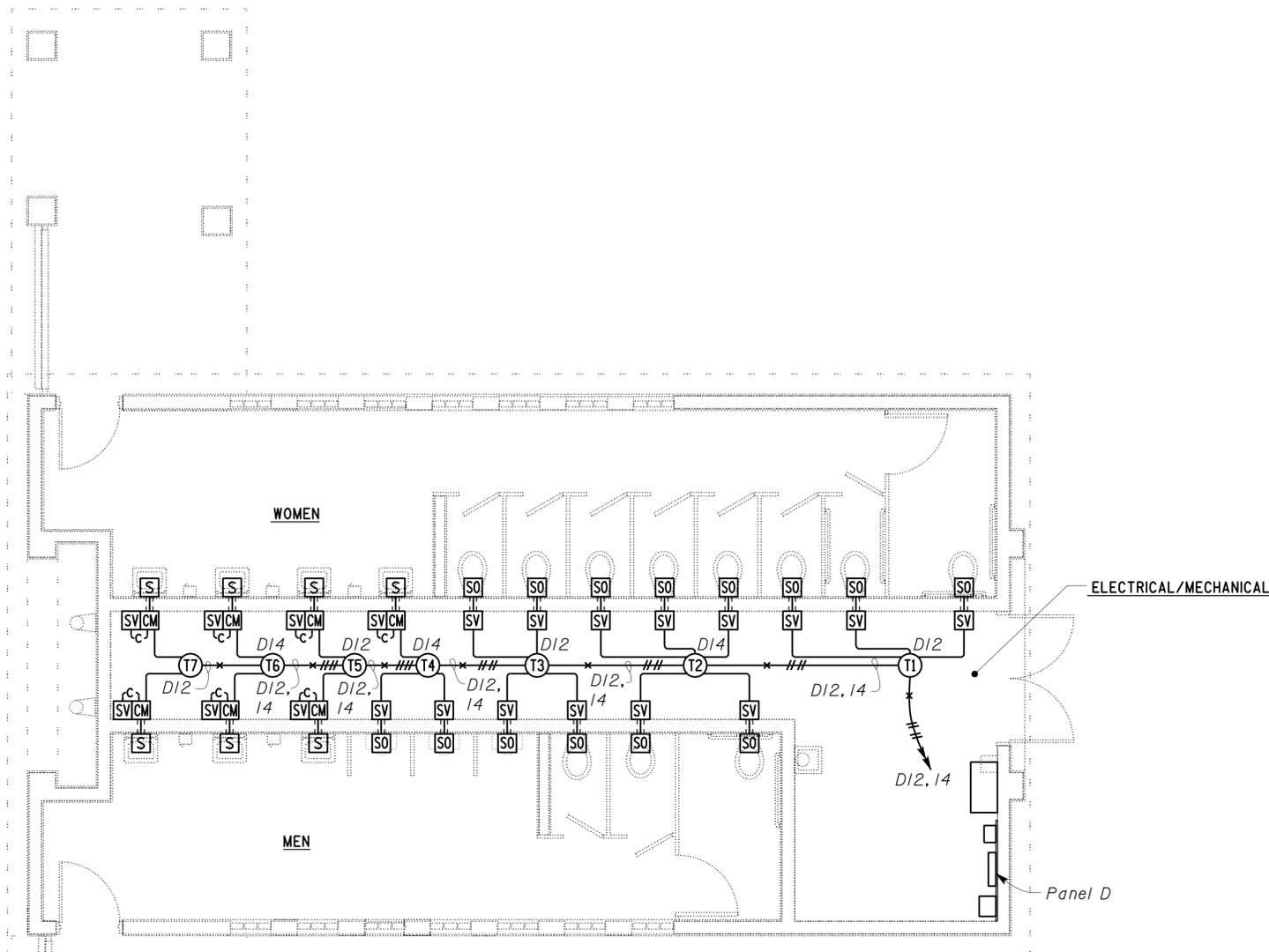
CALIFORNIA STATE FIRE MARSHAL

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BILL ROBERTSON DSFM III
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CSFM# 01-37-11-0033



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

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY <i>Johnny Wu</i>	CHECKED <i>Tech Ngov</i>
DETAILS	BY <i>Kathl Andreasen</i>	CHECKED <i>Johnny Wu</i>
QUANTITIES	BY <i>Johnny Wu</i>	CHECKED <i>Tech Ngov</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

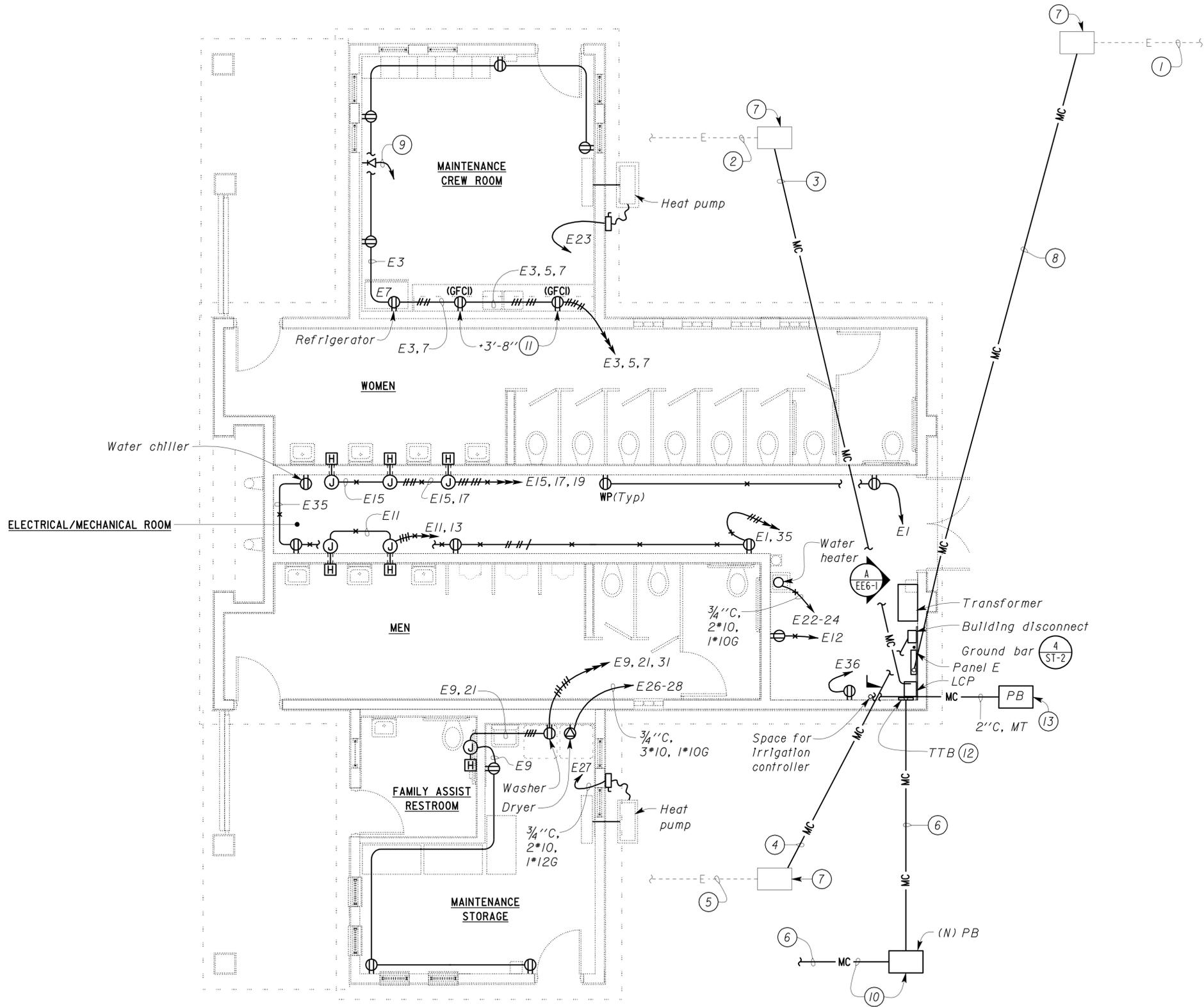
BRIDGE NO.	57R0001R/L
POST MILE	R59.4/R60.0

ALISO CREEK SAFETY ROADSIDE REST AREA
NORTHBOUND NEW BUILDING 4
AUTOMATIC FLUSH SYSTEM PLAN

SHEET **EE4-3**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	228	241

 REGISTERED ELECTRICAL ENGINEER DATE 12-2-09	
6-21-10 PLANS APPROVAL DATE	
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- General Notes:**
- A. For automatic flush system, see sheet EE5-3.
 - B. All "MC" conduits shall be PVC coated rigid steel conduit.
- Notes:**
- ① To water tank system.
 - ② To telephone booth lights. For continuation, see sheet EE0-1.
 - ③ 1" C, 4*10, 1*12G.
 - ④ 2" C, 4*2/0, 1*6G.
 - ⑤ 2" C, 4*2/0, to service equipment. For continuation, see sheet EE0-1.
 - ⑥ 2" C, (1) 25 pair telephone cable. For continuation, see sheet EE0-1.
 - ⑦ Splice new conductors to existing inside pull box.
 - ⑧ 1 1/2" C, 4*6, 1*8G.
 - ⑨ 3/4" C, 2-Category 6 cable, to TTB.
 - ⑩ This conduit and pull box are also shown on sheet EE0-1.
 - ⑪ Dimension to the bottom of outlet.
 - ⑫ Telephone terminal block (TTB) to be installed by Telephone Company.
 - ⑬ For Irrigation Conductors. See Irrigation Plan sheet IP-1 for Location of Irrigation Controller IC-'A'.

CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: 
 BILL ROBERTSON DSFM III
 Approval date: 11-04-09

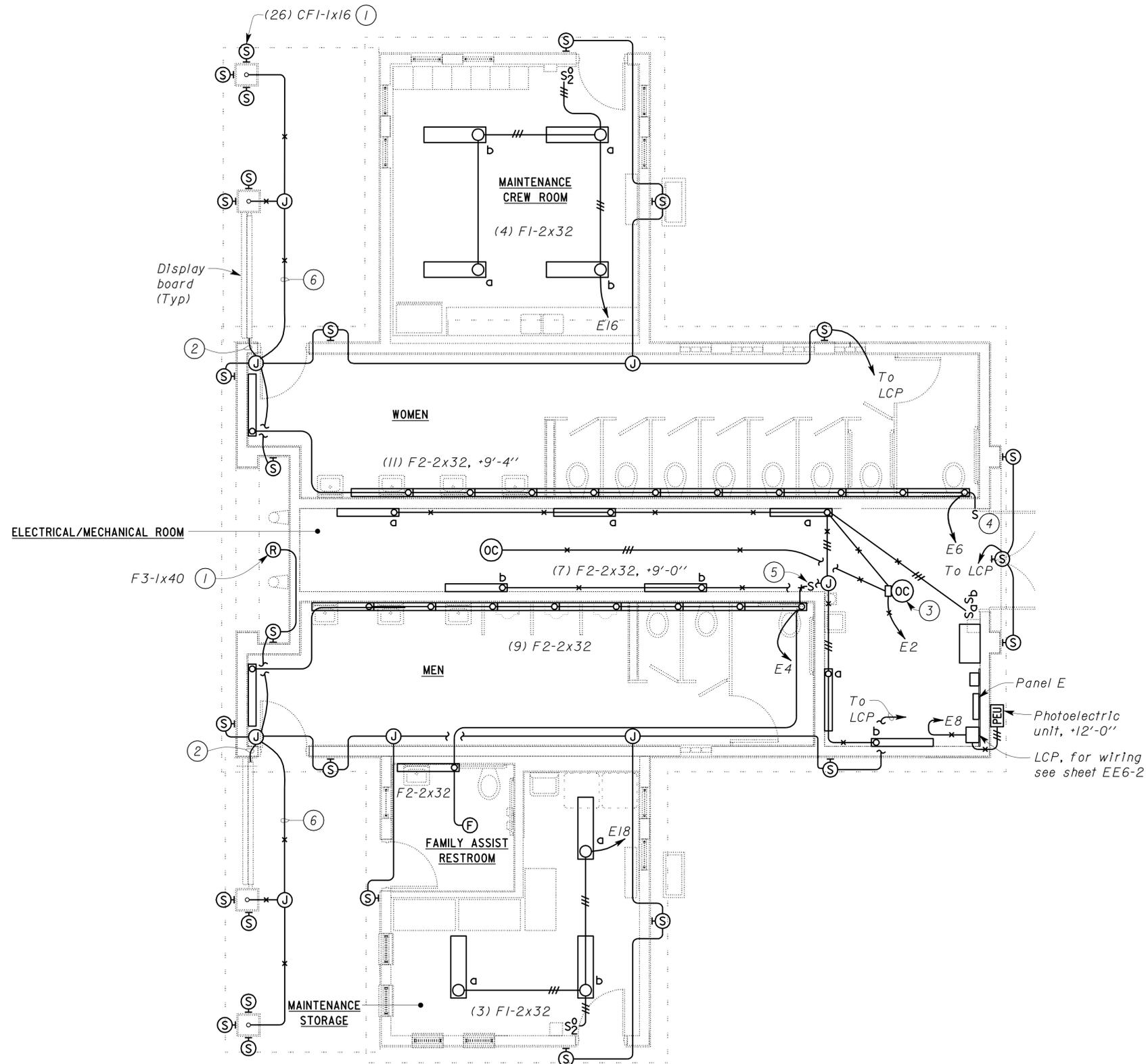
CSFM# 01-37-11-0033

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

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DESIGN BY Johnny Wu CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA		SHEET EE5-1								
			POST MILE R59.4/R60.0	NORTHBOUND NEW BUILDING 5	POWER AND COMMUNICATION PLAN									
DETAILS BY Kathl Andreasen CHECKED Johnny Wu	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF								
QUANTITIES BY Johnny Wu CHECKED Tech Ngov	0 1 2 3		<table border="1"> <tr> <td>1/14/08</td> <td>3/7/08</td> <td>3/18/08</td> <td>5/18/08</td> <td>6/7/08</td> <td>8/18/08</td> <td>12/2/08</td> <td>12/9/08</td> <td>2/18/09</td> </tr> </table>		1/14/08	3/7/08	3/18/08	5/18/08	6/7/08	8/18/08	12/2/08	12/9/08	2/18/09	
1/14/08	3/7/08	3/18/08	5/18/08	6/7/08	8/18/08	12/2/08	12/9/08	2/18/09						

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	229	241
 REGISTERED ELECTRICAL ENGINEER			12-2-09 DATE		
6-21-10 PLANS APPROVAL DATE					
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- Notes:
- ① For exact location and mounting height, see Architectural plans.
 - ② Conduit and wire for display board lights.
 - ③ Occupancy sensor and power pack. For wiring diagram, see sheet EE6-2.
 - ④ Install nameplate for switch, "WOMEN'S RESTROOM LIGHTING".
 - ⑤ Install nameplate for switch, "MEN'S RESTROOM LIGHTING".
 - ⑥ All conduits shall be installed on top of trellis and painted to match the trellis.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Approval date: 11-04-09
 CSFM# 01-37-11-0033

PLAN
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DESIGN BY Johnny Wu CHECKED Tech Ngov	DETAILS BY Kathl Andreasen CHECKED Johnny Wu	QUANTITIES BY Johnny Wu CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA		SHEET EE5-2							
					POST MILE R59.4/R60.0	NORTHBOUND NEW BUILDING 5	LIGHTING PLAN								
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 11340 EA 261401	REVISION DATES (PRELIMINARY STAGE ONLY)									
DOES SD Imperial Rev. 1/07					DISREGARD PRINTS BEARING EARLIER REVISION DATES	1/14/08	2/16/09	3/7/09	3/18/09	4/14/09	5/18/09	6/7/09	8/16/09	12/2/09	SHEET OF

24-JUN-2010 09:49 ee5_02.dgn

General Note:

For wiring details of automatic flush system, see sheet EE6-3.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	230	241

Chi Wu
REGISTERED ELECTRICAL ENGINEER DATE 12-2-09



6-21-10
PLANS APPROVAL DATE

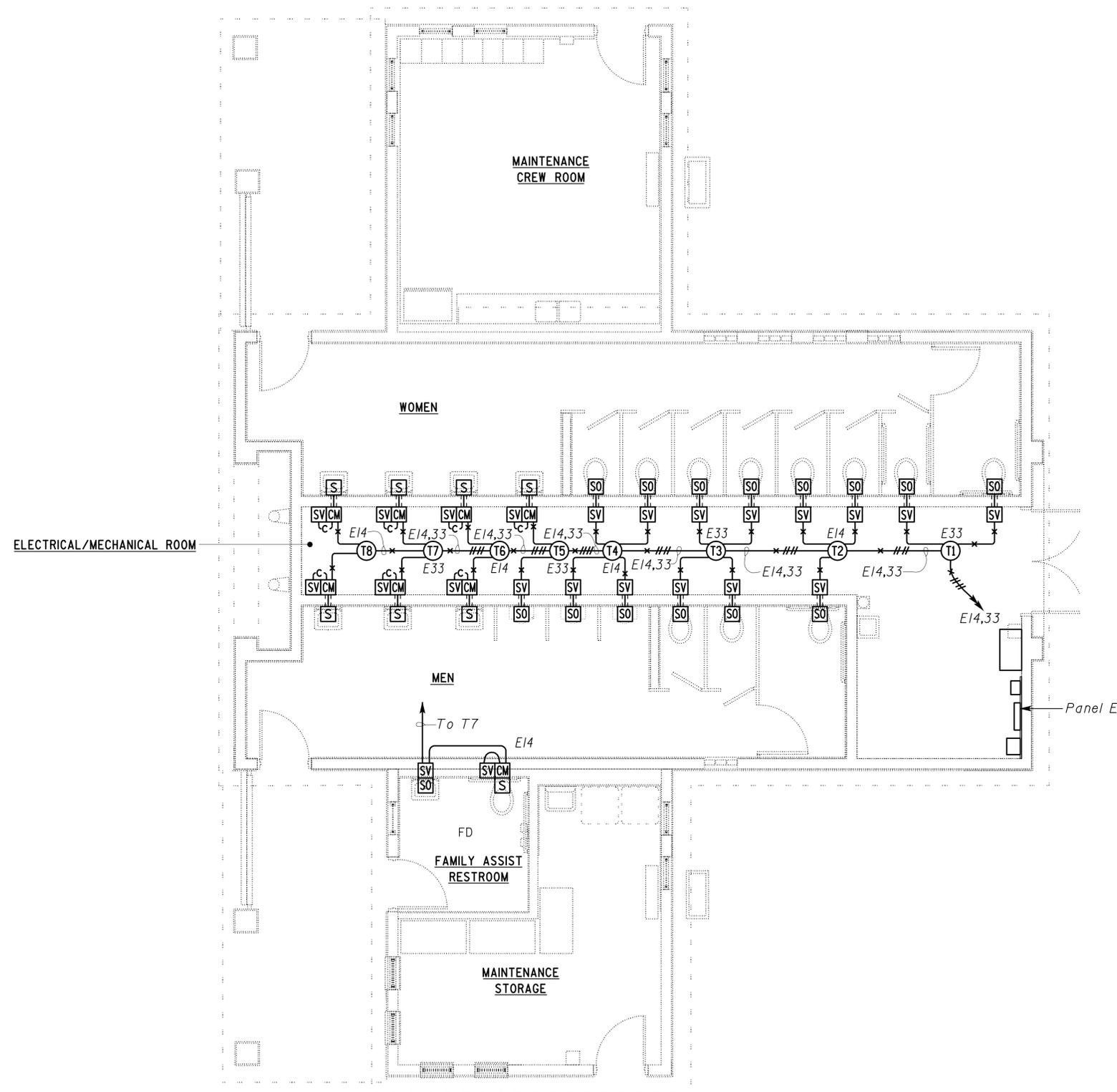
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Reviewed by: *Bill Robertson*
BILL ROBERTSON DSFM III
Approval date: 11-04-09

CSFM# 01-37-11-0033



PLAN

SCALE 1/4" = 1'-0"



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DESIGN	BY <i>Johnny Wu</i>	CHECKED <i>Tech Ngov</i>
DETAILS	BY <i>Kathl Andreasen</i>	CHECKED <i>Johnny Wu</i>
QUANTITIES	BY <i>Johnny Wu</i>	CHECKED <i>Tech Ngov</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	57R0001R/L
POST MILE	R59.4/R60.0

ALISO CREEK SAFETY ROADSIDE REST AREA
NORTHBOUND NEW BUILDING 5
AUTOMATIC FLUSH SYSTEM PLAN

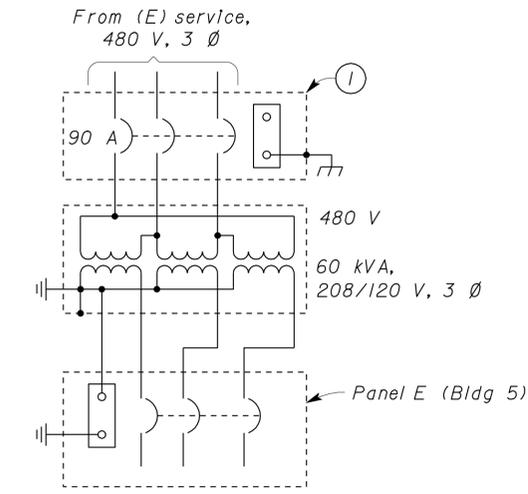
SHEET **EE5-3**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	231	241

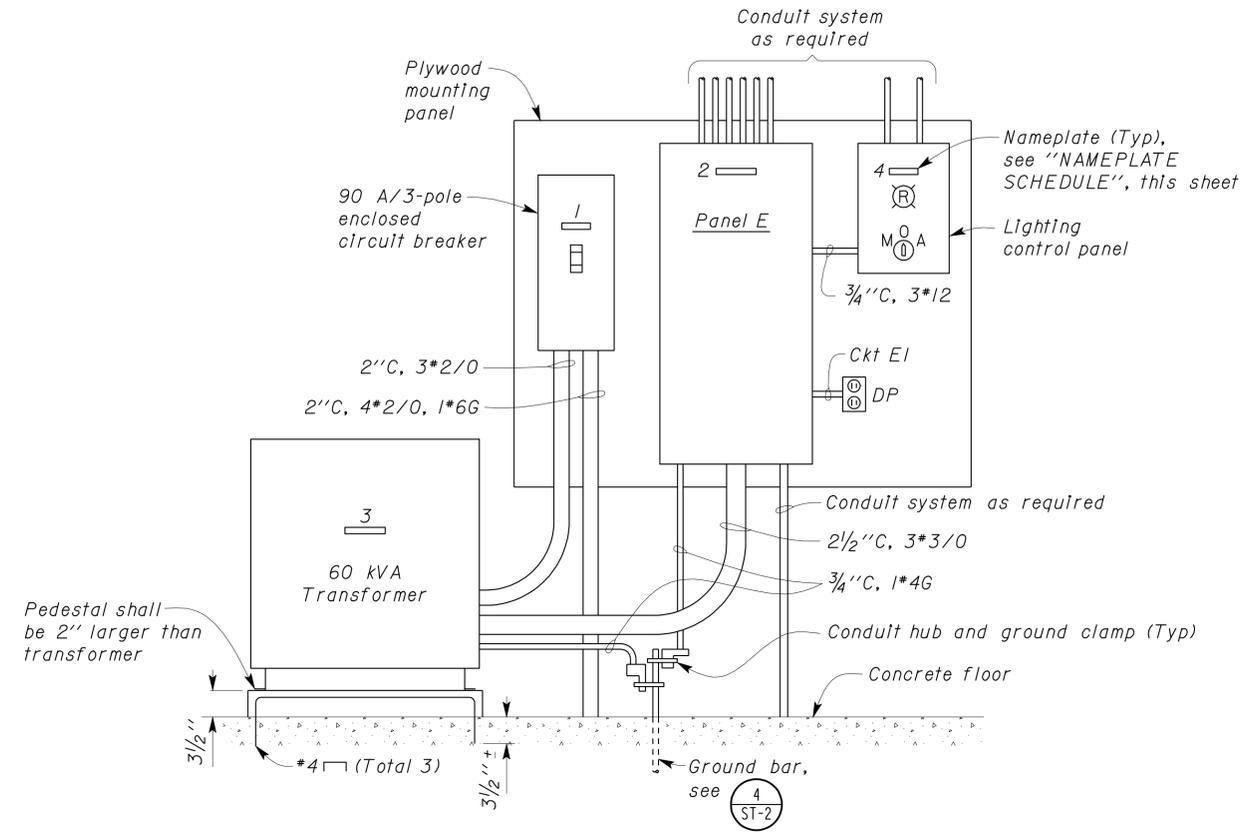
REGISTERED ELECTRICAL ENGINEER	DATE	12-2-09
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6-21-10	PLANS APPROVAL DATE
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DISTRIBUTION DIAGRAM FOR BLDG No. 5



A ELEVATION FOR BLDG No. 5
NO SCALE

Note:
① Tape the neutral conductor in last pull box.

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BILL ROBERTSON DSFM III
Approval date: 11-04-09
CSFM# 01-37-11-0033

NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT
1	BUILDING DISCONNECT	1/4"
2	PANEL E (FOR BLDG 5)	1/4"
3	480 - 208/120 V, 3-PHASE	1/4"
4	LIGHTING CONTROL PANEL	1/4"

DESIGN	BY Johnny Wu	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Johnny Wu
QUANTITIES	BY Johnny Wu	CHECKED Tech Ngov

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

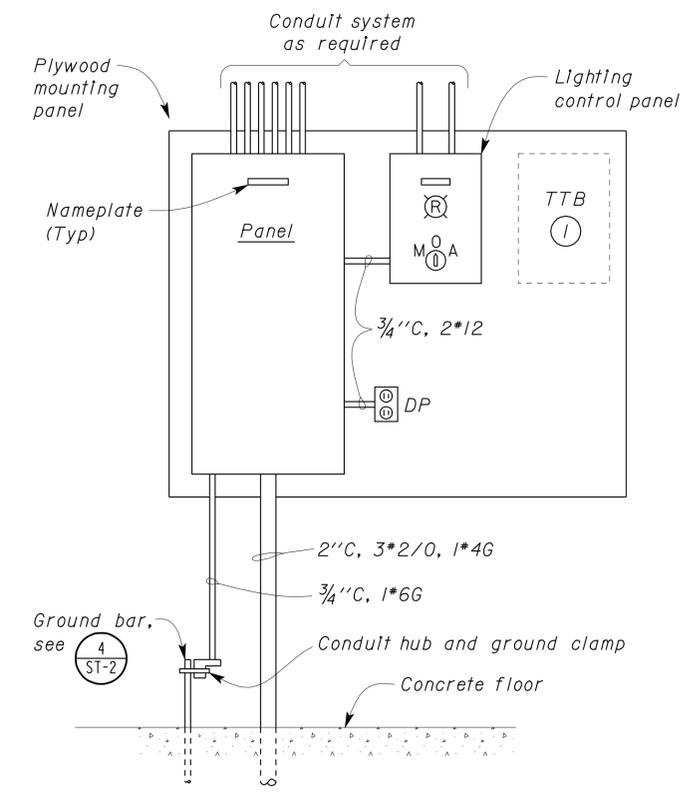
DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA	SHEET EE6-1
POST MILE	R59.4/R60.0		
DETAILS			

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	232	241

<i>Chi Wu</i> REGISTERED ELECTRICAL ENGINEER	12-2-09 DATE	
6-21-10 PLANS APPROVAL DATE		

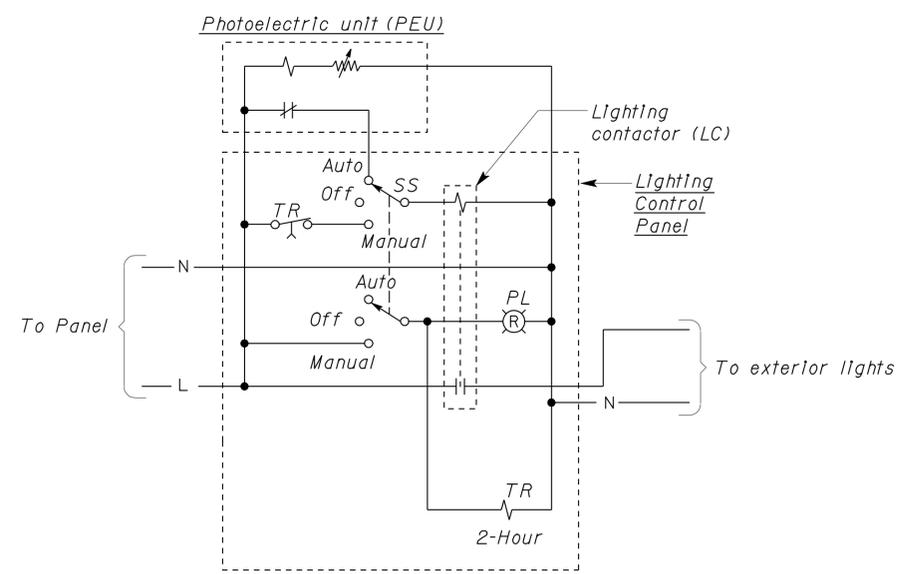
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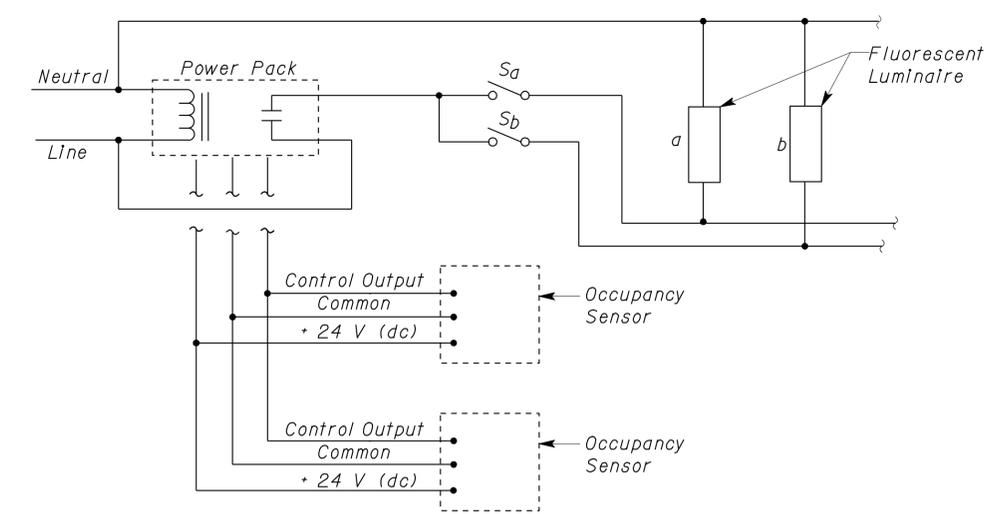
Note:
 (1) Telephone terminal board (TTB) to be installed by Telephone Company.

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 BILL ROBERTSON DSFM III
 Approval date: 11-04-09
 CSFM# 01-37-11-0033

A TYPICAL ELEVATION
BLDG. No. 1, No. 2 AND No. 3
 NO SCALE



1 TYPICAL LIGHTING CONTROL PANEL SCHEMATIC
 NO SCALE



2 MULTIPLE OCCUPANCY SENSOR USING ONE POWER PACK
 NO SCALE

DESIGN	BY	Johnny Wu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA	SHEET EE6-2		
	DETAILS	BY	Andreasen/Monson	CHECKED			Johnny Wu	POST MILE			R59.4/R60.0	PANEL ELEVATION AND CONTROL DETAILS
	QUANTITIES	BY	Johnny Wu	CHECKED			Tech Ngov	DISREGARD PRINTS BEARING EARLIER REVISION DATES			7/27/07 4/16/09 4/23/09 6/7/09 8/18/09 12/2/09 12/9/09 2/18/09 3/7/09	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	CU 11340 EA 261401	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	OF		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	233	241


 REGISTERED ELECTRICAL ENGINEER DATE 12-2-09
 No. 10773
 Exp. 6-30-11
 ELEC
 STATE OF CALIFORNIA

6-21-10
PLANS APPROVAL DATE

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Reviewed by: 
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 Approval date: 11-04-09

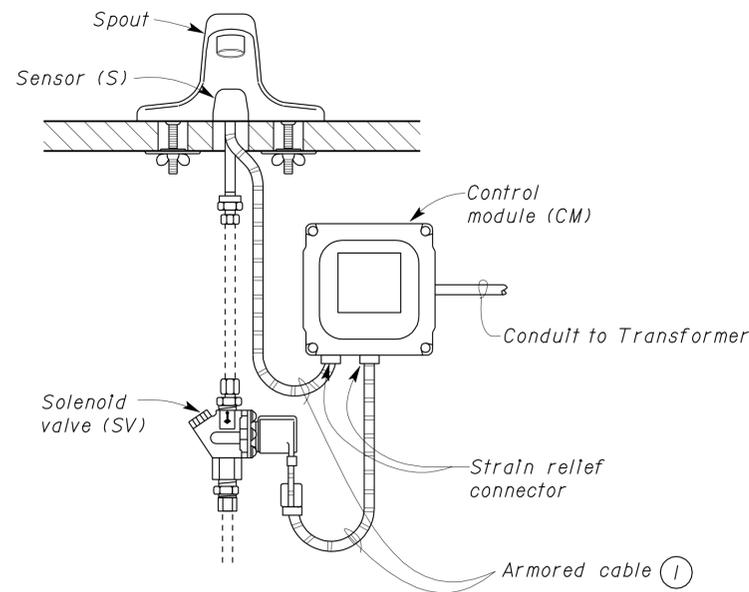
CSFM# 01-37-11-0033

General Notes:

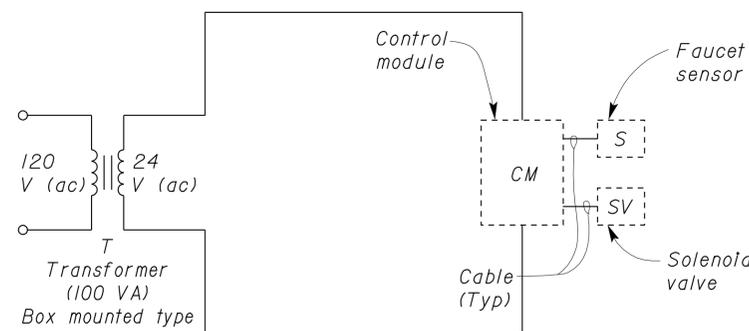
- A. The schematic diagrams and detail that are shown on this sheet are based on one manufacturer for reference only. Exact wiring and installation depends on the units furnished. Contractor shall furnish and install any additional components, conduits, conductors and cables necessary for the automatic operation without additional cost to the State.
- B. For exact location of solenoid valve, see Mechanical plans.
- C. Electricians, plumbers, tile setters, and other trades involved with the installation, shall coordinate their work for proper installation.
- D. For quantity of faucets and water closets per transformer, see "Automatic Flush System" plans.

Note:

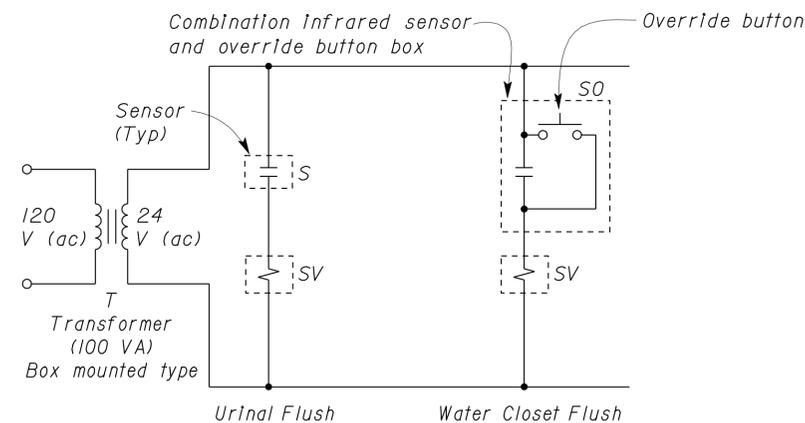
- ① All cable type and length shall be provided by the sensor operated faucet and water closet manufacturer.



① TYPICAL SENSOR OPERATED FAUCET
NO SCALE



TYPICAL SENSOR OPERATED FAUCET SCHEMATIC
NO SCALE



TYPICAL URINAL AND WATER CLOSET SENSOR SCHEMATIC
NO SCALE

DESIGN	BY Johnny Wu	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Johnny Wu
QUANTITIES	BY Johnny Wu	CHECKED Tech Ngov

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	57R0001R/L
POST MILE	R59.4/R60.0

ALISO CREEK SAFETY ROADSIDE REST AREA
FIXTURE SENSOR DETAILS

SHEET OF
EE6-3

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	234	241


 REGISTERED ELECTRICAL ENGINEER DATE 12-2-09



6-21-10
 PLANS APPROVAL DATE

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MAIN: 150 A MAIN BREAKER
VOLTS: 120/240 V, 1 Ø, 3-WIRE

PANEL C

FEEDER SIZE: 3*2/0, 1#4G
LOCATION: SOUTHBOUND BUILDING No. 3

DESCRIPTION	AMPERES		BRK	CKT	A	B	CKT	BRK	AMPERES		DESCRIPTION
	A	B							A	B	
RECEPT - ELECTRICAL/MECHANICAL RM	10.5		20/1	1	•		2	20/1	3.0		LIGHTS - ELECTRICAL/MECHANICAL RM
RECEPT - MAINTENANCE CREW ROOM		6.0	20/1	3	•		4	20/1	5.5		LIGHTS - MEN'S ROOM
RECEPT - CREW ROOM (COUNTERTOP)	3.0		20/1	5	•		6	20/1	6.0		LIGHTS - WOMEN'S ROOM & FAMILY ASSIST
RECEPT - CREW ROOM (REFRIGERATOR)		5.0	20/1	7	•		8	20/1	6.5		LIGHTS - EXTERIOR (LCP)
RECEPT - CHP ROOM	7.5		20/1	9	•		10	20/1	5.0		WATER CHILLER
HAND DRYER - MEN'S ROOM		14.0	20/1	11	•		12	20/1	4.0		TRANSFORMER - FIXTURE SENSORS
HAND DRYER - MEN'S ROOM	14.0		20/1	13	•		14	20/1	4.0		TRANSFORMER - FIXTURE SENSORS
HAND DRYER - WOMEN'S ROOM		14.0	20/1	15	•		16	20/1	2.5		LIGHTS - MAINTENANCE CREW ROOM
HAND DRYER - WOMEN'S ROOM	14.0		20/1	17	•		18	20/1	2.5		LIGHTS - CHP ROOM
HAND DRYER - WOMEN'S ROOM		14.0	20/1	19	•		20	20/1	---		SPARE
HAND DRYER - FAMILY ASSIST	14.0		20/1	21	•		22	30/2	25.0		WATER HEATER
HEAT PUMP - MAINTENANCE CREW RM		11.0	20/1	23	•		24	30/2	25.0		WATER HEATER
SPARE	---		20/1	25	•		26	20/1	3.0		IRRIGATION CONTROLLER
HEAT PUMP - CHP ROOM		11.0	20/1	27	•		28	20/1	---		SPARE
SPARE	---		20/1	29	•		30	20/1	---		SPARE
SPARE	---	---	20/1	31	•		32	20/1	---		SPARE
SPARE	---	---	20/1	33	•		34	20/1	---		SPARE
SPARE	---	---	20/1	35	•		36	20/1	---		SPARE
SPARE	---	---	20/1	37	•		38	20/1	---		SPARE
SPARE	---	---	20/1	39	•		40	20/1	---		SPARE
SPARE	---	---	20/1	41	•		42	20/1	---		SPARE

* GFCI TYPE CIRCUIT BREAKER

A	B	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
108.5	118.5	

MAIN: 150 A CIRCUIT BREAKER
VOLTS: 208/120 V, 3 Ø, 4-WIRE

PANEL E

FEEDER SIZE: 4*2/0
LOCATION: NORTHBOUND BUILDING No. 5

DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
RECEPT - ELECTRICAL/MECHANICAL RM	9.0			20/1	1	•			2	20/1	3.0			LIGHTS - ELECTRICAL/MECHANICAL RM
RECEPT - MAINTENANCE CREW ROOM		6.0		20/1	3	•			4	20/1		5.0		LIGHTS - MEN'S ROOM, FAMILY ROOM
RECEPT - MAINTENANCE CREW ROOM (COUNTERTOP)			3.0	20/1	5	•			6	20/1			6.0	LIGHTS - WOMEN'S ROOM
RECEPT - MAINTENANCE CREW ROOM (REFRIGERATOR)	7.5			20/1	7	•			8	20/1	6.5			LIGHTS - EXTERIOR (LCP)
RECEPT - MAINTENANCE STORAGE		6.0		20/1	9	•			10	20/1		3.0		LIGHTS - TELEPHONE BOOTHS
HAND DRYER - MEN'S ROOM			14.0	20/1	11	•			12	20/1			5.0	IRRIGATION CONTROLLER
HAND DRYER - MEN'S ROOM	14.0			20/1	13	•			14	20/1	4.0			TRANSFORMER - FIXTURE SENSORS
HAND DRYER - WOMEN'S ROOM		14.0		20/1	15	•			16	20/1		2.5		LIGHTS - MAINTENANCE CREW ROOM
HAND DRYER - WOMEN'S ROOM			14.0	20/1	17	•			18	20/1			2.5	LIGHTS - MAINTENANCE/STORAGE
HAND DRYER - WOMEN'S ROOM	14.0			20/1	19	•			20	20/1	---			SPARE
HAND DRYER - FAMILY ASSIST ROOM		14.0		20/1	21	•			22	30/2		25.0		WATER HEATER
HEAT PUMP - MAINTENANCE CREW RM			11.0	20/1	23	•			24	30/2			25.0	WATER HEATER
SPARE	---			20/1	25	•			26	30/2	15.0			DRYER
HEAT PUMP - MAINTENANCE STORAGE RM		11.0		20/2	27	•			28	30/2		15.0		DRYER
SPARE	---		---	20/1	29	•			30	30/2			15.0	DRYER
WASHER	5.0			20/1	31	•			32	60/3	15.0			WATER TANK SYSTEM
TRANSFORMER - FIXTURE SENSORS		4.00		20/1	33	•			34	60/3		15.0		WATER TANK SYSTEM
WATER CHILLER			5.0	20/1	35	•			36	20/1			3.0	IRRIGATION CONTROLLER
SPARE	---			20/1	37	•			38	20/1	---			SPARE
SPARE		---		20/1	39	•			40	20/1	---			SPARE
SPARE			---	20/1	41	•			42	20/1	---			SPARE

* GFCI TYPE CIRCUIT BREAKER

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
93.0	120.5	103.5	

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 BILL ROBERTSON DSFM III
 Approval date: 11-04-09

CSFM# 01-37-11-0033

DESIGN	BY	Johnny Wu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA	PANEL SCHEDULES	SHEET EE6-4	
	DETAILS	BY	Andreasen/Monson	CHECKED			Johnny Wu	POST MILE				R59.4/R60.0
	QUANTITIES	BY	Johnny Wu	CHECKED			Tech Ngov					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 CU 11340 EA 261401
 DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
7/27/07	4/14/09	4/23/09	6/4/09	8/18/09	12/2/09	2/16/09	3/4/09	3/26/09			

DOES SD Imperial Rev. 1/07
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	235	241

REGISTERED ELECTRICAL ENGINEER DATE 12-2-09

CHI WU No. 10773 Exp. 6-30-11 ELEC STATE OF CALIFORNIA

6-21-10 PLANS APPROVAL DATE

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MAIN: 100 A, MAIN BREAKER
VOLTS: 120/240 V, 1Ø, 3-WIRE

FEEDER SIZE: 3*2/0
LOCATION: SOUTHBOUND BLDG No.1

PANEL A

DESCRIPTION	AMPERES		BRK	CKT	A	B	CKT	BRK	AMPERES		DESCRIPTION
	A	B							A	B	
RECEPT-ELECTRICAL/MECHANICAL ROOM	10.5		*20/1	1	●		2	20/1	3.0		LIGHTS-ELECTRICAL/MECHANICAL ROOM
HAND DRYER-MEN'S ROOM		14.0	20/1	3	●		4	20/1		5.0	LIGHTS-MEN'S ROOM
HAND DRYER-MEN'S ROOM	14.0		20/1	5	●		6	20/1	6.0		LIGHTS-WOMEN'S ROOM
WATER HEATER		25.0	30/2	7	●		8	20/1		8.0	LIGHTS-EXTERIOR (LCP)
	25.0			9	●		10	20/1	---		
HAND DRYER-WOMEN'S ROOM		14.0	20/1	11	●		12	20/1		3.0	TRANSFORMER-FIXTURE SENSORS
HAND DRYER-WOMEN'S ROOM	14.0		20/1	13	●		14	20/1	3.0		TRANSFORMER-FIXTURE SENSORS
HAND DRYER-WOMEN'S ROOM		14.0	20/1	15	●		16	20/1		---	SPARE
WATER CHILLER	9.0		20/1	17	●		18	20/1	---		SPARE
SPARE		---	20/1	19	●		20	20/1		---	SPARE
SPARE	---		20/1	21	●		22	20/1	---		SPARE
SPARE		---	20/1	23	●		24	20/1		---	SPARE
SPARE	---		20/1	25	●		26	20/1	---		SPARE
SPARE		---	20/1	27	●		28	20/1		---	SPARE
SPARE	---		20/1	29	●		30	20/1	---		SPARE

* GFCI TYPE CIRCUIT BREAKER

A	B	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
84.5	83.0	

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Bill Robertson*
BILL ROBERTSON DSFM III
Approval date: 11-04-09

CSFM# 01-37-11-0033

MAIN: 100 A, MAIN BREAKER
VOLTS: 120/240 V, 1Ø, 3-WIRE

FEEDER SIZE: 3*2/0
LOCATION: SOUTHBOUND BLDG No.2

PANEL B

DESCRIPTION	AMPERES		BRK	CKT	A	B	CKT	BRK	AMPERES		DESCRIPTION
	A	B							A	B	
RECEPT-ELECTRICAL/MECHANICAL ROOM	10.5		*20/1	1	●		2	20/1	3.0		LIGHTS-ELECTRICAL/MECHANICAL ROOM
HAND DRYER-MEN'S ROOM		14.0	20/1	3	●		4	20/1		5.0	LIGHTS-MEN'S ROOM
HAND DRYER-MEN'S ROOM	14.0		20/1	5	●		6	20/1	6.0		LIGHTS-WOMEN'S ROOM
WATER HEATER		25.0	30/2	7	●		8	20/1		8.0	LIGHTS-EXTERIOR (LCP)
	25.0			9	●		10	20/1	---		
HAND DRYER-WOMEN'S ROOM		14.0	20/1	11	●		12	20/1		3.0	TRANSFORMER-FIXTURE SENSORS
HAND DRYER-WOMEN'S ROOM	14.0		20/1	13	●		14	20/1	3.0		TRANSFORMER-FIXTURE SENSORS
HAND DRYER-WOMEN'S ROOM		14.0	20/1	15	●		16	20/1		---	SPARE
WATER CHILLER	9.0		20/1	17	●		18	20/1	---		SPARE
SPARE		---	20/1	19	●		20	20/1		---	SPARE
SPARE	---		20/1	21	●		22	20/1	---		SPARE
SPARE		---	20/1	23	●		24	20/1		---	SPARE
SPARE	---		20/1	25	●		26	20/1	---		SPARE
SPARE		---	20/1	27	●		28	20/1		---	SPARE
SPARE	---		20/1	29	●		30	20/1	---		SPARE

* GFCI TYPE CIRCUIT BREAKER

A	B	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
84.5	83.0	

MAIN: 100 A, MAIN BREAKER
VOLTS: 120/240 V, 1Ø, 3-WIRE

FEEDER SIZE: 3*1/0
LOCATION: NORTHBOUND BLDG No.4

PANEL D

DESCRIPTION	AMPERES		BRK	CKT	A	C	CKT	BRK	AMPERES		DESCRIPTION
	A	C							A	C	
RECEPT - ELECTRICAL/MECHANICAL RM	10.5		*20/1	1	●		2	20/1	3.0		LIGHTS - ELECTRICAL/MECHANICAL RM
HAND DRYER - MEN'S ROOM		14.0	20/1	3	●		4	20/1		5.0	LIGHTS - MEN'S ROOM
HAND DRYER - MEN'S ROOM	14.0		20/1	5	●		6	20/1	6.0		LIGHTS - WOMEN'S ROOM
WATER HEATER		25.0	30/2	7	●		8	20/1		8.0	LIGHTS - EXTERIOR
	25.0			9	●		10	20/1	---		
HAND DRYER - WOMEN'S ROOM		14.0	20/1	11	●		12	20/1		3.0	TRANSFORMER - FIXTURE SENSORS
HAND DRYER - WOMEN'S ROOM	14.0		20/1	13	●		14	20/1	3.0		TRANSFORMER - FIXTURE SENSORS
HAND DRYER - WOMEN'S ROOM		14.0	20/1	15	●		16	20/1		---	SPARE
WATER CHILLER	9.0		20/1	17	●		18	20/1	---		SPARE
SPARE		---	20/1	19	●		20	20/1		---	SPARE
SPARE	---		20/1	21	●		22	20/1	---		SPARE
SPARE		---	20/1	23	●		24	20/1		---	SPARE
SPARE	---		20/1	25	●		26	20/1	---		SPARE
SPARE		---	20/1	27	●		28	20/1		---	SPARE
SPARE	---		20/1	29	●		30	20/1	---		SPARE

* GFCI TYPE CIRCUIT BREAKER

A	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
84.5	83.0	

DESIGN BY <i>Johnny Wu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA	SHEET EE6-5
			POST MILE R59.4/R60.0		
			PANEL SCHEDULES		
DETAILS BY <i>Linda Monson</i> CHECKED <i>Johnny Wu</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY <i>Johnny Wu</i> CHECKED <i>Tech Ngov</i>	0 1 2 3		10/9/08 12/9/08 4/14/09 6/14/09 8/18/09 10/14/09 12/2/09		

DOES SD Imperial Rev.1/07

24-JUN-2010 09:49

ee6_05.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4, R60.0	236	241

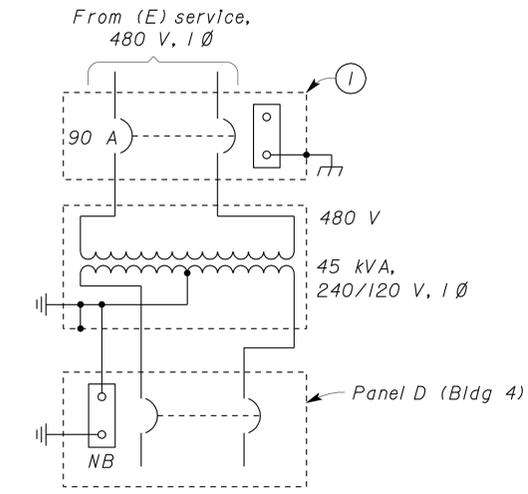

 REGISTERED ELECTRICAL ENGINEER DATE 12-2-09
 6-21-10
 PLANS APPROVAL DATE


 REGISTERED PROFESSIONAL ENGINEER
 CHI WU
 No. 10773
 Exp. 6-30-11
 ELEC
 STATE OF CALIFORNIA

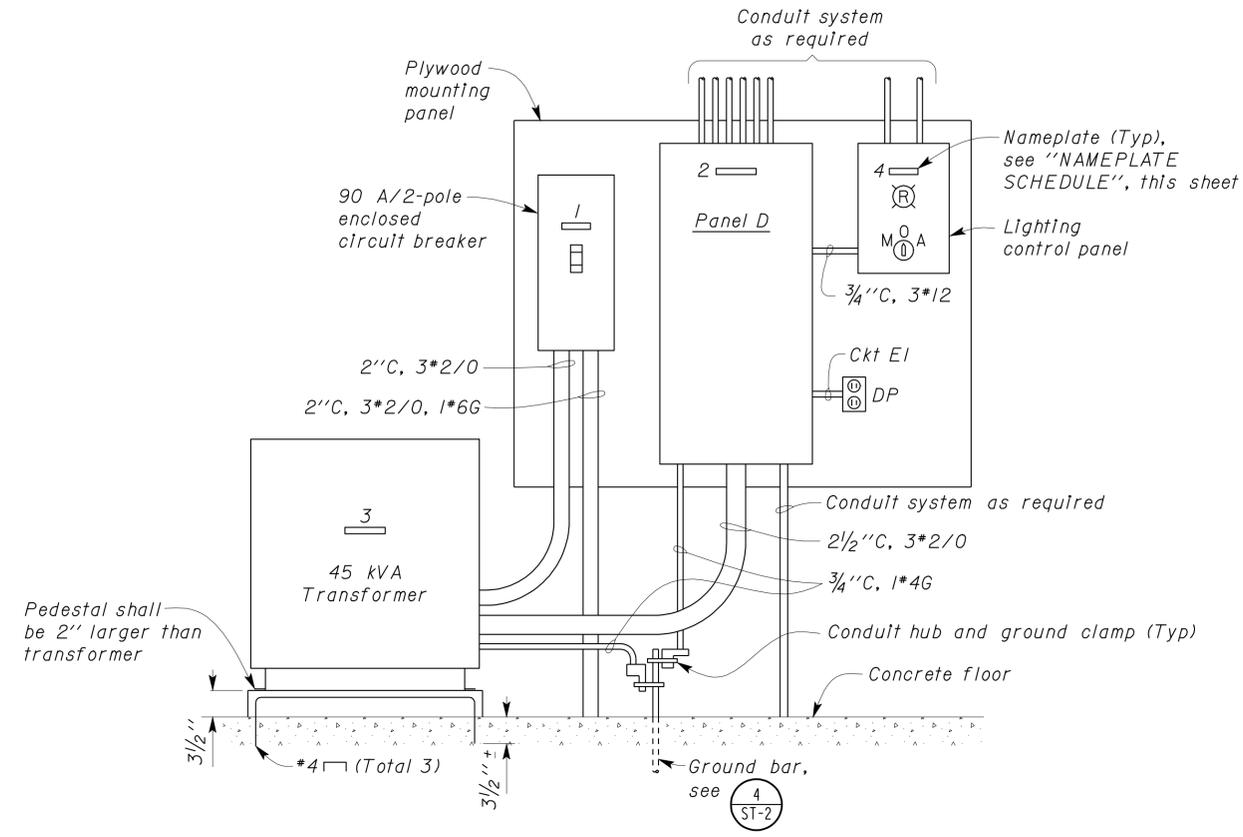
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Note:
 (1) Tape the neutral conductor in last pull box.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: 
 BILL ROBERTSON DSFM III
 Approval date: 11-04-09
 CSFM# 01-37-11-0033



DISTRIBUTION DIAGRAM FOR BLDG No. 4



A ELEVATION FOR BLDG No. 4
 NO SCALE

NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT
1	BUILDING DISCONNECT	1/4"
2	PANEL D (FOR BLDG 4)	1/4"
3	480 - 240/120 V, 1-PHASE	1/4"
4	LIGHTING CONTROL PANEL	1/4"

DESIGN	BY Johnny Wu	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Johnny Wu
QUANTITIES	BY Johnny Wu	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	57R0001R/L	ALISO CREEK SAFETY ROADSIDE REST AREA	DETAILS
POST MILE	R59.4/R60.0		

SHEET **EE6-6** OF

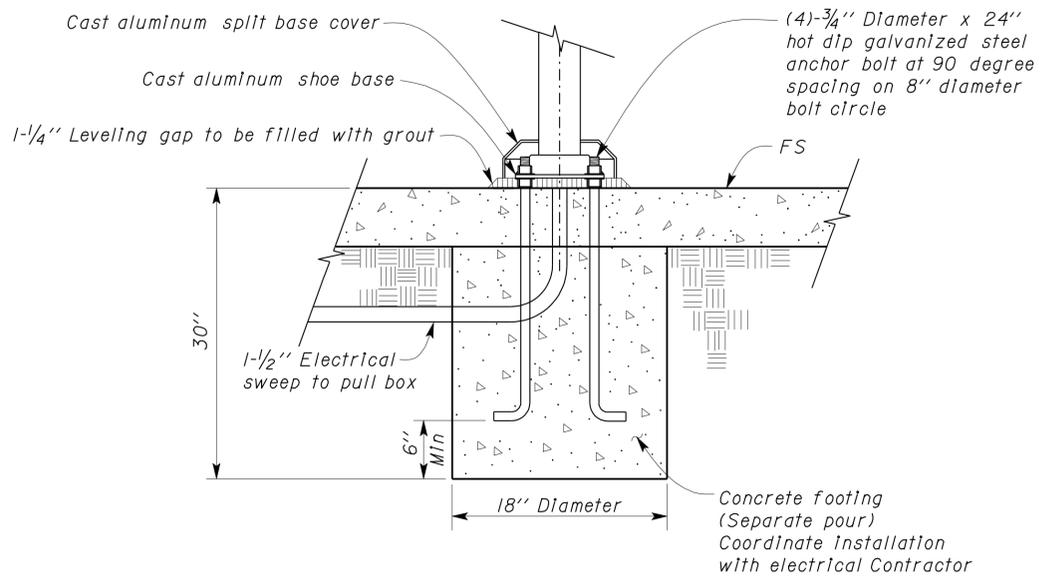
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	237	241


 REGISTERED ELECTRICAL ENGINEER DATE 12-2-09
 6-21-10
 PLANS APPROVAL DATE

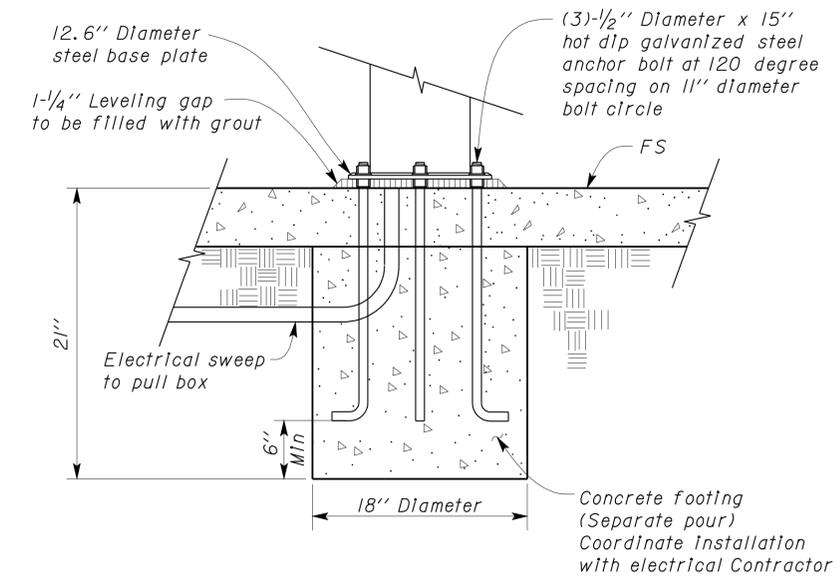


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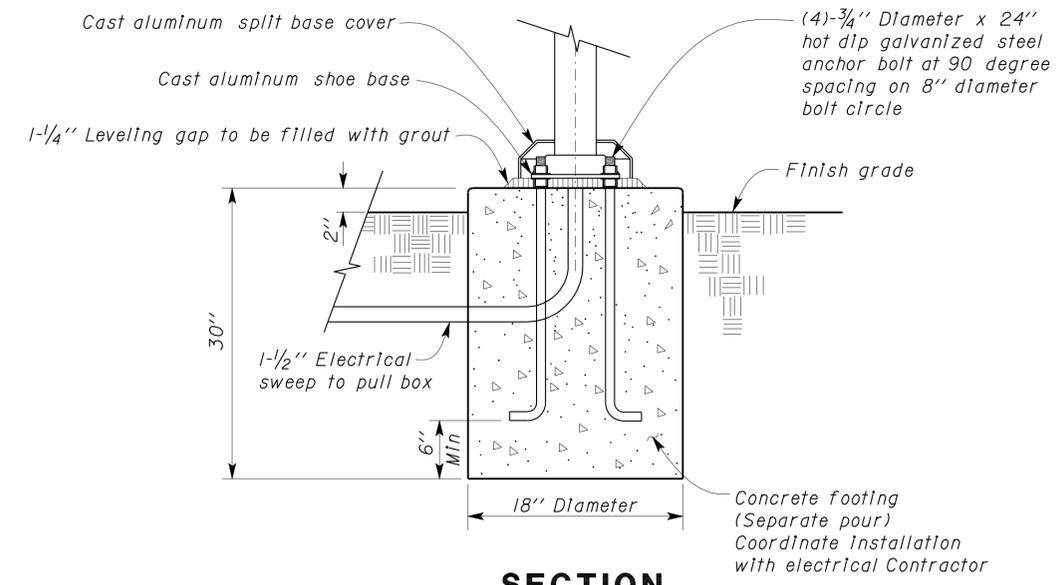
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 BILL ROBERTSON CSFM III
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 CSFM# 01-37-11-0033



SECTION 1
LIGHT STANDARD FOOTING (TYPE A)
IN CONCRETE WALK
 NO SCALE



SECTION 3
BOLLARD LIGHT FOOTING
 NO SCALE



SECTION 2
LIGHT STANDARD FOOTING (TYPE B)
OUTSIDE OF CONCRETE WALK
 NO SCALE

DESIGN	BY Johnny Wu	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Johnny Wu
QUANTITIES	BY Johnny Wu	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	57R0001R/L
POST MILE	R59.4/R60.0

ALISO CREEK SAFETY ROADSIDE REST AREA
 DETAILS

SHEET **EE6-7**

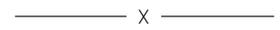
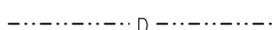
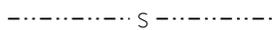
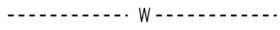
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	238	241

<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER	12-02-09 DATE	
6-21-10 PLANS APPROVAL DATE		
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ABBREVIATIONS

AB	AGGREGATE BASE	IN	INCH
AC	ASPHALT CONCRETE	JB	JUNCTION BOX
B	BUNG	KW	KILOWATT
BLDG	BUILDING	LB	POUND
C	CONDUIT	LT	LEFT
C-C	CENTER TO CENTER	MAX	MAXIMUM
CFS	CUBIC FEET PER SECOND	MBV	MOTORIZED BALL VALVE
CI	CAST IRON	MH	MANHOLE
CL	CHAIN LINK	MIN	MINIMUM
CMP	CORRUGATED METAL PIPE	(N)	NEW
CONC	CONCRETE	N	NORTH
COTF	CLEANOUT TO FLOOR	NB	NORTHBOUND
COTG	CLEANOUT TO GRADE	NIC	NOT IN CONTRACT
CPLG	COUPLING	NO	NUMBER
CW	COLD WATER PIPE	OC	ON CENTER
D	DRAIN	OD	OUTSIDE DIAMETER
DBH	DIAMETER AT BREAST HEIGHT	OG	ORIGINAL GROUND
DI	DRAIN INLET	P	PITCH
DIA	DIAMETER	PCC	PORTLAND CEMENT CONCRETE
DP	DRAIN PIPE	PH	PHASE
E	ELECTRICAL	PRV	PRESSURE REDUCING VALVE
(E)	EXISTING	PVC	POLYVINYL CHLORIDE
EA	EACH	R	RADIUS
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	REQ	REQUIRED
EQ	EQUAL	rpm	REVOLUTIONS PER MINUTE
FOB	FACE OF BUILDING	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
FF	FINISH FLOOR	RPU	RECYCLE PROCESS UNIT
FG	FINISH GRADE	RT	RIGHT
FL	FLOW LINE	RV	RECREATIONAL VEHICLE
FM	FORCE MAIN	R/W	RIGHT-OF-WAY
FOC	FACE OF CONCRETE	S	SLOPE
FS	FLOW SWITCH	SB	SOUTHBOUND
FT	FEET	SCH	SCHEDULE
FTR	FLUE THROUGH ROOF	SD	STORM DRAIN
GA	GAUGE	SP	SEWER PIPE
GAC	GRANULAR ACTIVATED CARBON	SQ	SQUARE
GAL	GALLON	STA	STATION
GPM	GALLONS PER MINUTE	STD	STANDARD
GALV	GALVANIZED	TBM	TEMPORARY BENCH MARK
GSP	GALVANIZED STEEL PIPE	TOC	TOP OF CONCRETE
GV	GATE VALVE	TOT	TOTAL
H	HEIGHT	TYP	TYPICAL
HP	HOSE FAUCET	VAC	VOLTS AC
HF	HORSEPOWER	VCP	VITRIFIED CLAY PIPE
HZ	HERTZ	W	WATER
ID	INSIDE DIAMETER	W/O	WITHOUT
IE	INVERT ELEVATION (IN FEET)	WP	WATER PIPE
		WSP	WELDED STEEL PIPE

LEGEND

	FENCE		DETAIL SHEET NUMBER
	SURFACE DRAINAGE	99.00	NEW GRADE IN FEET
	ABANDON	X (100.00)	EXISTING SPOT GRADE IN FEET
	REMOVE		SURFACE DRAINAGE
<u>UNDERGROUND UTILITIES</u>			
	DRAIN		BENCHMARK ELEVATION
	SEWER		CENTERLINE
	WATER		DIAMETER
	ELECTRICAL		SECTION / ELEVATION LETTER SHEET NUMBER
	GAS		TREE
	AIR		DIRECTION OF TRAFFIC

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Bill Robertson*
BILL ROBERTSON DSFM III
Approval date: 11-04-09

CSFM# 01-37-11-0033

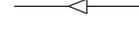
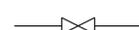
GENERAL WORK NOTES

The Contractor shall verify all controlling field dimensions and conditions before ordering or fabricating any materials.

The Contractor shall verify exact location of all underground facilities and utilities prior to start of construction.

No 90 degree bends allowed on drain or sewer pipe. Where 90 degree bends are shown, use two 45 degree bends

PIPE FITTINGS AND VALVES

	CAP
	ELBOW, TURNED DOWN
	FLEXIBLE CONNECTOR
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	PRESSURE GAUGE (WITH VALVE AND SNUBBER)
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, CHECK
	VALVE, GATE
	VALVE, SAFETY RELIEF
	VALVE, PRESSURE REDUCING
	HOSE FAUCET

DOES SD Imperial Rev. 9/02	DESIGN	BY <i>R E Schmitz</i>	CHECKED <i>Don Hansen</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	ALISO CREEK SAFETY ROADSIDE REST AREA	SHEET	
	DETAILS	BY <i>R E Schmitz</i>	CHECKED <i>Don Hansen</i>			57R0001R/L		LEGEND AND ABBREVIATIONS	SS-0
	QUANTITIES	BY <i>R E Schmitz</i>	CHECKED <i>Don Hansen</i>			POST MILE R59.4/ R60.0			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 11340 EA 261401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 07-12-07 04-18-08 08-29-08 12-19-08 03-26-09 07-22-09 08-12-09	SHEET OF	

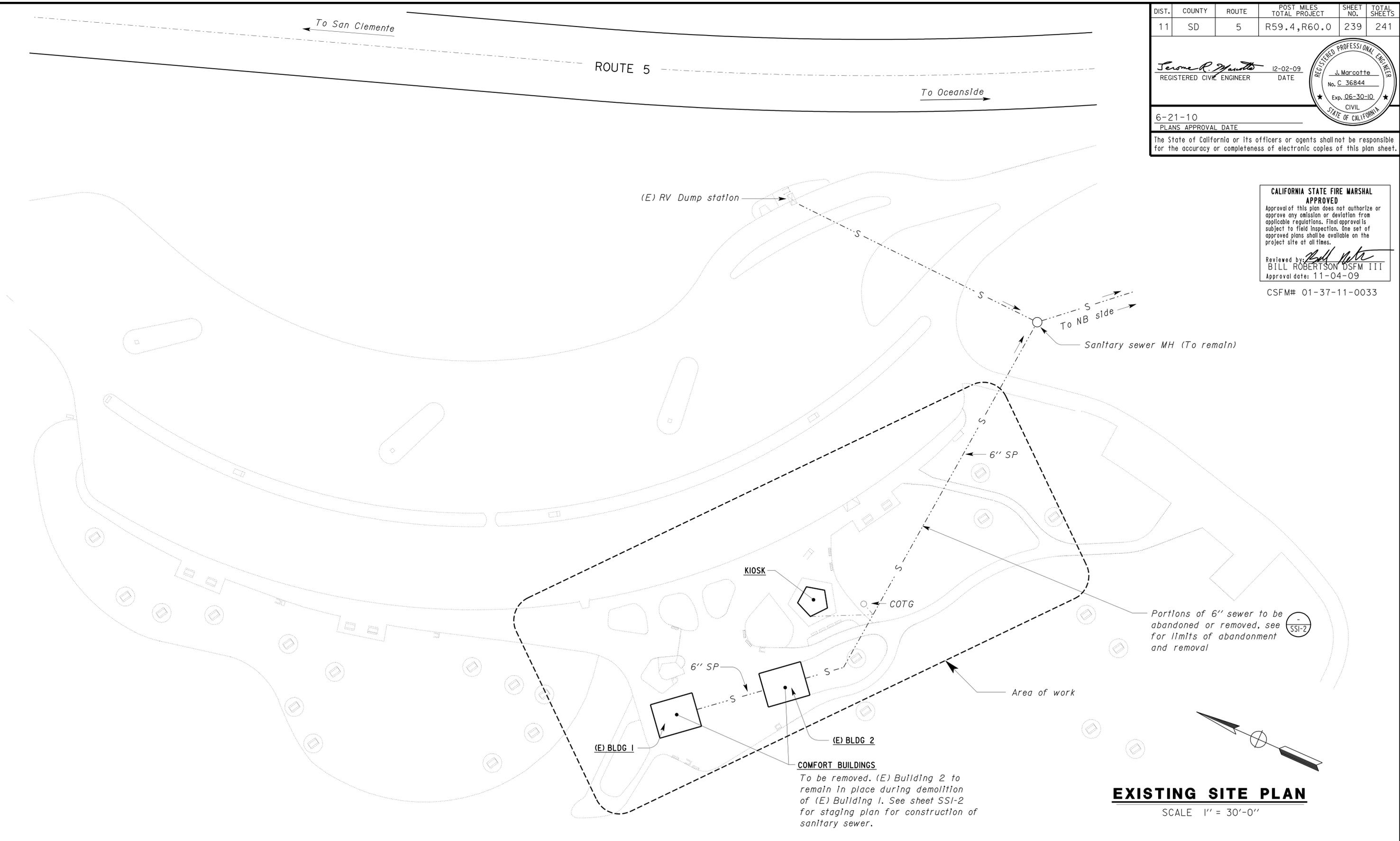
24-JUN-2010 08:30

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	239	241

<i>Jerome R. Yantto</i> REGISTERED CIVIL ENGINEER	12-02-09 DATE	
6-21-10 PLANS APPROVAL DATE		
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Reviewed by: *Bill Robertson*
 BILL ROBERTSON DSFM III
 Approval date: 11-04-09
 CSFM# 01-37-11-0033



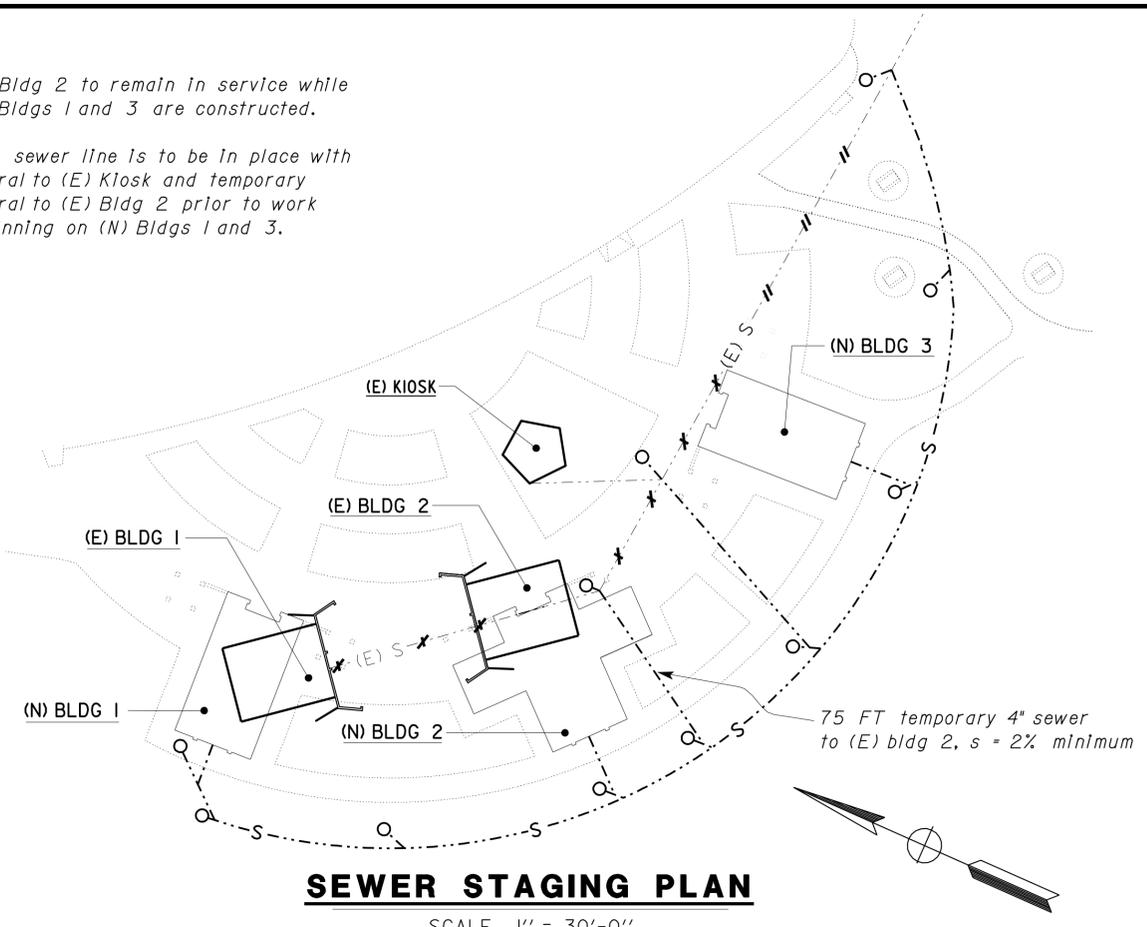
EXISTING SITE PLAN
 SCALE 1" = 30'-0"

 DESIGN SUPERVISOR  DESIGN ENGINEER	DESIGN	BY R E Schmitz	CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	ALISO CREEK SAFETY ROADSIDE REST AREA SOUTHBOUND EXISTING SITE PLAN	SHEET
	DETAILS	BY R E Schmitz	CHECKED Don Hansen		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	57R0001L		SOUTHBOUND EXISTING SITE PLAN
QUANTITIES	BY R E Schmitz	CHECKED Don Hansen	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 11340 EA 261401	POST MILE R59.4/R60.0 DISREGARD PRINTS BEARING EARLIER REVISION DATES		

24-JUN-2010 08:30
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NOTES:

- (E) Bldg 2 to remain in service while (N) Bldgs 1 and 3 are constructed.
- New sewer line is to be in place with lateral to (E) Kiosk and temporary lateral to (E) Bldg 2 prior to work beginning on (N) Bldgs 1 and 3.



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4, R60.0	240	241

Jerome R. Marcotte
 REGISTERED CIVIL ENGINEER
 12-02-09
 DATE

J. Marcotte
 No. C 36844
 Exp. 06-30-10
 CIVIL
 STATE OF CALIFORNIA

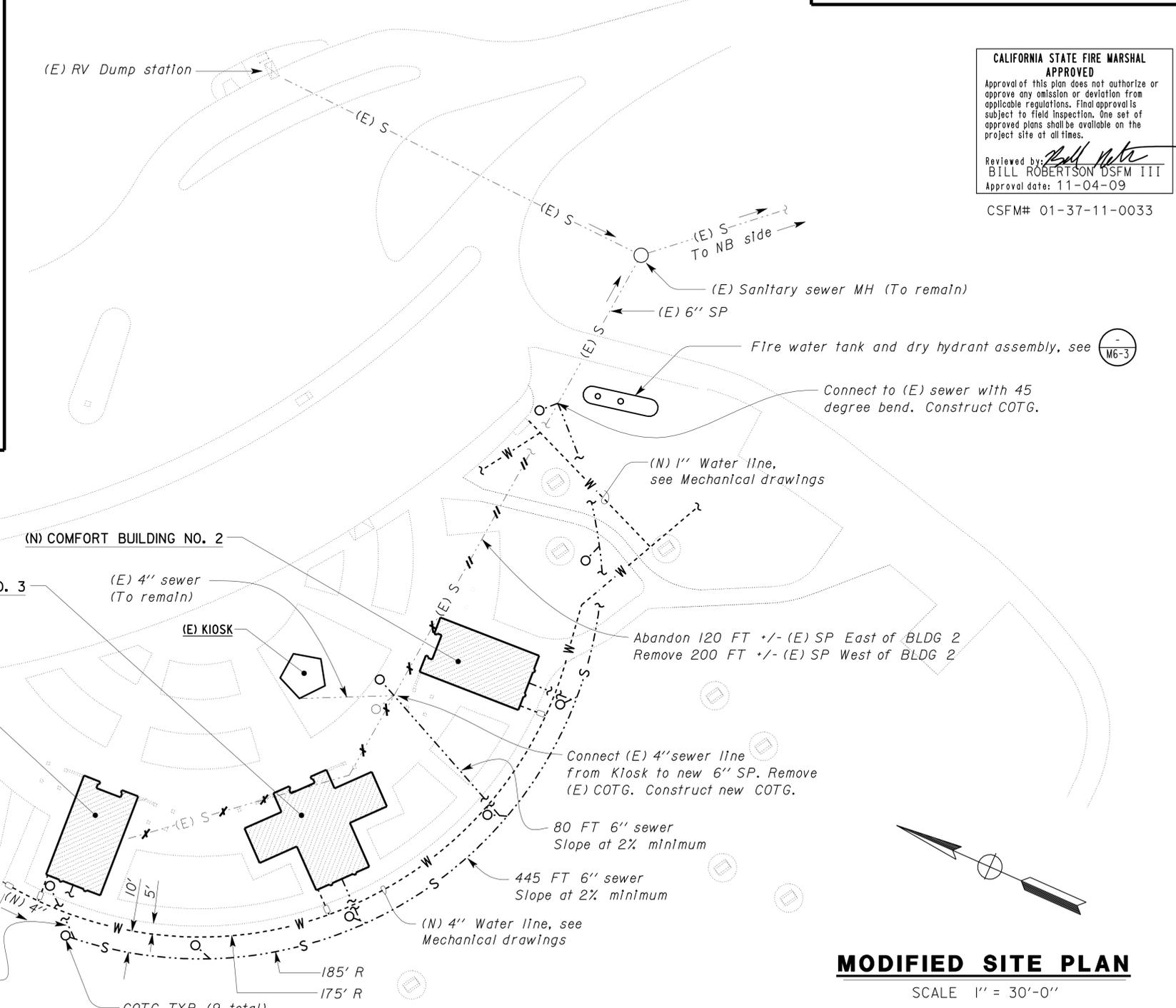
6-21-10
PLANS APPROVAL DATE

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 CSFM# 01-37-11-0033



Note:
For Sewer on Northbound side, see

DESIGN	BY	R E Schmitz	CHECKED	Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	57R0001L	ALISO CREEK SAFETY ROADSIDE REST AREA	SOUTHBOUND	MODIFIED SITE PLAN	SHEET OF SS1-2	
	DETAILS	BY	R E Schmitz	CHECKED			Don Hansen	POST MILE					R59.4/ R60.0
	QUANTITIES	BY	R E Schmitz	CHECKED			Don Hansen	CU					11340

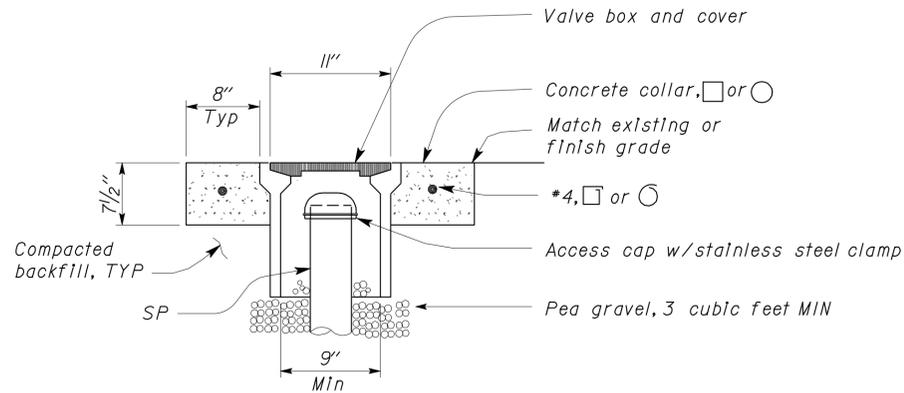
DOES SD Imperial Rev. 9/02 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

28 JUN 2010 14:11 ss1_2.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5	R59.4,R60.0	241	241

<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER	12-02-09 DATE	
6-21-10 PLANS APPROVAL DATE		

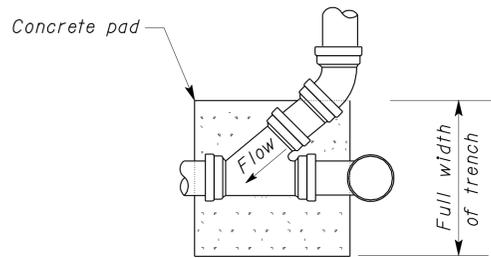


A COTG ACCESS BOX
NO SCALE

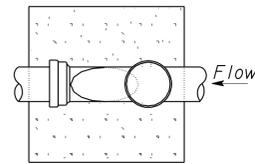
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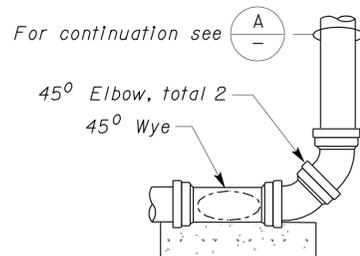
CSFM# 01-37-11-0033



PLAN

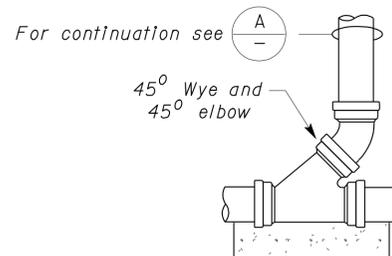


PLAN



ELEVATION

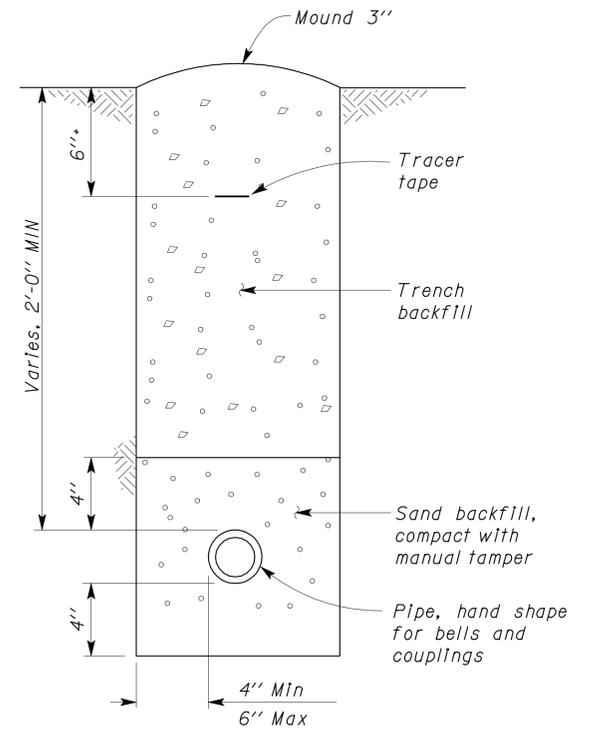
CLEANOUT (AT BEND)



ELEVATION

CLEANOUT (STANDARD)

1 CLEANOUT TO GRADE
NO SCALE
Concrete pad shown typical for all cleanouts.



2 SANITARY SEWER TRENCH
NO SCALE

DOES SD Imperial Rev. 9/02	DESIGN	BY R E Schmitz	CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	ALISO CREEK SAFETY ROADSIDE REST AREA	SHEET
	DETAILS	BY R E Schmitz	CHECKED Don Hansen			57R0001R/L		
	QUANTITIES	BY R E Schmitz	CHECKED Don Hansen			POST MILE	DETAILS	OF
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261401	R59.4/R60.0	REVISION DATES (PRELIMINARY STAGE ONLY)	
				0 1 2 3			07-12-07 04-18-08 08-29-08 12-19-08 03-26-09 07-22-09 08-12-09 12-02-09	

24-JUN-2010 08:30
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