

1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Ker	58,99	Var	41A	57

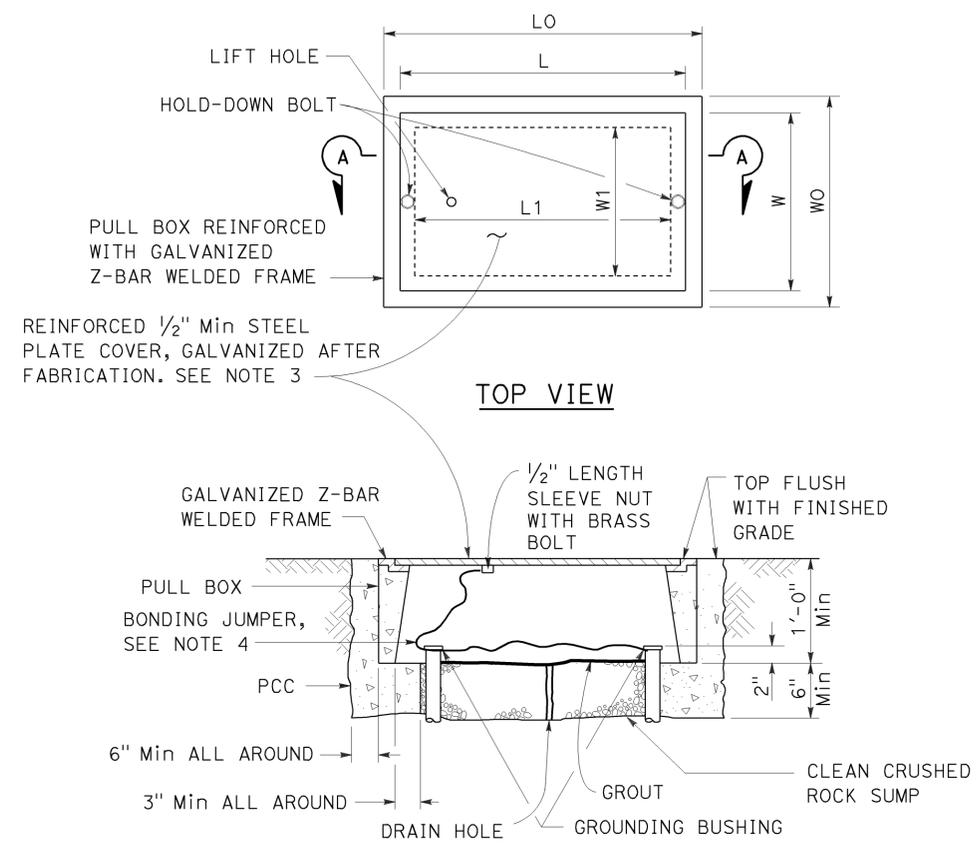
Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 6-23-14



SECTION A-A
No. 3 1/2(T), No. 5(T) AND
No. 6(T) TRAFFIC PULL BOX

NOTES:

- Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
- Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
- Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" Sprinkler control circuits, 50 V or less; "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service.
 - No. 3 1/2(T) pull box.
 - "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - No. 5(T) or 6(T) pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATION" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communications line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
 - "BOOSTER PUMP" - Booster pump circuit.
- Bonding jumper for metal covers shall be 3' long, minimum.
- The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8".

PULL BOX	PULL BOX						COVER				
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	W0	L0	L1	W1	L **	W **	R	EDGE THICKNESS	EDGE TAPER
No. 3 1/2(T)	1 1/2"	1'-0"	1'-5"± 1"	1'-8 3/8"±	1'-2 1/2"±	10 5/8"± 1"	1'-8"±	1'-1 3/4"±	0"	1/2"	NONE
No. 5(T)	1 3/4"	1'-0"	1'-11 1/2"± 1"	2'-5 1/2"±	1'-7"±	1'-1"± 1"	2'-3"±	1'-4"±	0"	1/2"	NONE
No. 6(T)	2"	1'-0"	2'-6"± 1"	2'-11 1/2"±	1'-11 1/2"±	1'-5"± 1"	2'-9"±	1'-8"±	0"	1/2"	NONE

* EXCLUDING CONDUIT WEB ** TOP DIMENSION

1 ADDED PER ADDENDUM No. 1 DATED SEPTEMBER 26, 2014

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(TRAFFIC PULL BOX)
NO SCALE

RSP ES-8B DATED JULY 19, 2013 SUPERSEDES RSP ES-8B DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8B

2010 REVISED STANDARD PLAN RSP ES-8B

GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
CEILING	WALL
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, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR, L=LED), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE.
	EXAMPLE : (4) F2-2x32
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET
	RANGE OUTLET
	CLOCK HANGER RECEPTACLE
	FAN HANGER RECEPTACLE
	FLOOR SINGLE RECEPTACLE OUTLET
	FLOOR DUPLEX RECEPTACLE OUTLET
	FLOOR SPECIAL PURPOSE OUTLET
	FLOOR RADIO OUTLET
	FLOOR TELEPHONE OUTLET
	MULTI-FLOOR OUTLET, 2 OR MORE GANG
	MULTI-OUTLET ASSEMBLY
	SWITCH AND SINGLE RECEPTACLE
	SWITCH AND DUPLEX RECEPTACLE
	RADIO OUTLET
	COMMUNICATION OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	RADIO OUTLET
	TELEVISION OUTLET
	MICROPHONE OUTLET
	APPROVED FOR ELECTRICAL WORK ONLY

SYMBOL	DESCRIPTION
S	SINGLE-POLE SWITCH
S2	DOUBLE-POLE SWITCH
S3	THREE-WAY SWITCH
S4	FOUR-WAY SWITCH
SD	AUTOMATIC DOOR
SK	KEY OPERATED SWITCH
SP	SWITCH AND PILOT LIGHT
SMC	MOMENTARY CONTACT SWITCH
SR	REMOTE CONTROL SWITCH
SWP	WEATHERPROOF SWITCH
SF	FAN SWITCH
SL	LIGHT SWITCH
SH	HEATER SWITCH
Svs	VARIABLE SPEED MOTOR CONTROL SWITCH
SCHLF	TWO TIMER SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND ONE SWITCH FOR HEAT LAMP
S0	OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
S2	OCCUPANCY SENSOR WALL SWITCH, BILEVEL
SM	MOTION SENSOR SWITCH
ST	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
SHP	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
Ts	TIMER SWITCH
	PUSHBUTTON
	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	COMBINATION BELL-BUZZER
	PRESSURE SWITCH
	CONTROL RELAY
	FLOW SWITCH
	PHOTOELECTRIC UNIT
	HAND DRYER NOZZLE
	HAND DRYER
	FLUSH-MOUNTED PANELBOARD AND CABINET
	SURFACE-MOUNTED PANELBOARD AND CABINET
	LIGHTING PANEL
	POWER PANEL
	COMBINATION LIGHTING AND POWER
	MOTOR CONTROLLER
	DISCONNECT SWITCH
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED IN FLOOR
	CONDUIT EXPOSED
	CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES 1#12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH 1#12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT 1/2" UNLESS OTHERWISE NOTED.
A1,2	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT

SYMBOL	DESCRIPTION
	SURFACE METAL RACEWAY
(2) 1/2" C, PVC, 2#12	CONDUCTOR INFO (PER CONDUIT) CONDUIT TYPE CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
	CONDUIT, RIGID STEEL, UNDERGROUND
	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	CONDUIT, FLEXIBLE
	CONDUIT, TURN UP
	CONDUIT, TURN DOWN
	CONDUIT SEAL, EXPLOSION-PROOF
	CONDUIT, EXPANSION JOINT
	ADAPTER, ONE TYPE CONDUIT TO ANOTHER
	POLE
	OCCUPANCY SENSOR
	OCCUPANCY SENSOR POWER PACK
	MANUAL PULL STATION
	AUDIO/VISUAL ALARM DEVICE
	HEAT DETECTOR
	SMOKE DETECTOR
	GLASS BREAK DISCRIMINATOR
	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
	KEYPAD FOR ALARM SYSTEM
	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
	PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	PULL BOX (TRAFFIC-RATED)-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	COMBINATION HEAT, LIGHT, AND FAN UNIT
	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
-E---	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
-x---	EXISTING CONDUIT AND CONDUCTORS-REMOVE
S	EXISTING SWITCH-TO REMAIN
X	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
GFCI	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
	CIRCUIT BREAKER, SINGLE-POLE, SWITCHED NEUTRAL
	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)
	INDICATING LIGHT (A=AMBER, G=GREEN, R=RED)
	GENERATOR
	MOTOR
	FAN MOTOR

1 REPLACED PER ADDENDUM No.1 DATED SEPTEMBER 26, 2014

1 MODIFY PUMPING PLANT ELECTRICAL EQUIPMENT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	58, 99	Var	44	57

Jaswinder Sandhu 11-07-13
 REGISTERED ELECTRICAL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Sandhu
 No. E 11803
 Exp. 9-30-14
 ELEC
 STATE OF CALIFORNIA

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ABBREVIATIONS

A
 AC ALTERNATING CURRENT
 A/C AIR CONDITIONING UNIT
 ACS AIR COMPRESSOR STARTER
 AFCI ARC FAULT CIRCUIT INTERRUPTER
 AI ANALOG INPUT
 AL ALARM LIGHT
 AO ANALOG OUTPUT
 AR ALARM RESET
 AVC AIR VOLUME CONTROLLER

B
 BC BARE COPPER
 BD BUILDING DISCONNECT
 BP BOOSTER PUMP
 Brk BREAKER

C
 Cat CATEGORY
 CC CENTER CHANNEL LIGHT
 CD CONTROL DISCONNECT
 CM CENTER MARGIN LIGHT
 Conc CONCRETE
 CR CONTROL RELAY
 CSW CURRENT SWITCH

D
 DC DIRECT CURRENT
 DI DIGITAL INPUT
 DLC LOOP DETECTOR LEAD-IN CABLE
 DO DIGITAL OUTPUT
 DP DUPLEX PLUG RECEPTACLE
 DS DOOR SWITCH

E
 (E) EXISTING
 EB EASTBOUND
 EF EXHAUST FAN
 Elev ELEVATION
 EMS EXTINGUISHABLE MESSAGE SIGN

F
 F FUSE
 FL FAILURE LIGHT
 FLA FLASHER
 Flex FLEXIBLE CONDUIT
 FLS FLOW SWITCH
 FR FAILURE RESET or FLAME RESISTANT
 FS FLOAT SWITCH

G
 G GROUND
 Galv GALVANIZED
 GRS GALVANIZED RIGID STEEL

H
 hp HORSEPOWER

I
 IC IRRIGATION CONTROLLER
 ICC IRRIGATION CONTROLLER CABINET
 IR INDUCTION RELAY
 ISR INTRINSICALLY SAFE RELAY

J
 JB JUNCTION BOX

L
 L LIGHT or LENGTH
 LC LIGHTING CONTACTOR
 LCD LIQUID CRYSTAL DISPLAY
 LCP LIGHTING CONTROL PANEL
 LD LIGHT DISCONNECT
 LDCI LEAK DETECTOR CIRCUIT INTERRUPTER
 LL LIQUID LEVEL RELAY
 LLC LIQUID LEVEL CONTROLLER
 LP LIGHT PANEL
 LS LIGHT SWITCH
 LT LIGHT TRANSFORMER
 LTO LIGHT TRANSFORMER OVERLOAD

M
 MB MAIN BREAKER
 MC METALLIC CONDUIT
 MCP MOTOR CIRCUIT PROTECTOR
 MCC MOTOR CONTROL CENTER
 MD MOTOR DISCONNECT
 MH MOUNTING HEIGHT
 MSB MAIN SWITCHBOARD

N
 (N) NEW
 Nav NAVIGATIONAL LIGHTS
 NSW NEUTRAL SWITCHING BREAKER

O
 O/C ON CENTER
 OL OVERLOAD

P
 PB PULL BOX or PUSHBUTTON
 PCP PUMP CONTROL PANEL
 PD PUMP DISCONNECT
 PFR PHASE FAILURE RELAY
 PFRD PHASE FAILURE RELAY DISCONNECT
 PL PILOT LIGHT
 PS PRESSURE SWITCH
 PTS POWER TRANSFER SWITCH
 PV PHOTOVOLTAIC

R
 RD RECEPTACLE DISCONNECT
 RES RESISTOR
 RMB RECIRCULATION AND LEACHFIELD MAIN
 RTB RADIO TERMINAL BOARD

S
 S STARTER COIL
 Sch SCHEDULE
 SD SERVICE DISCONNECT
 Sec SECONDS
 SFR SEAL FAILURE RELAY
 SL SUMP LIGHT
 SPR STANDBY POWER RECEPTACLE
 Sq SQUARE
 SS SELECTOR SWITCH
 ST STARTER
 SV SOLENOID VALVE
 SWIM SLOW WEIGH-IN-MOTION

T
 TB TERMINAL BLOCK
 TC TELEPHONE CABLE
 TDR TIME DELAY RELAY
 TGLS TOGGLE SWITCH
 TL TUNNEL LIGHTING
 TM TIME METER
 TS TIMER SWITCH
 TSW TEST SWITCH
 TTB TELEPHONE TERMINAL BOARD

U
 UPS UNINTERRUPTIBLE POWER SUPPLY

W
 WLS WATER LEVEL SWITCH
 WP WEATHERPROOF
 WSMS WEIGH STATION MESSAGE SIGN

SYMBOLS

∠ ANGLE
 ° DEGREES
 Δ DELTA
 ∅ PHASE
 ± PLUS OR MINUS

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06	Ker	58, 99	Var	45	57

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PROJECT NOTES

1. Separate grounded (Neutral) conductor must be used for each 120-volt circuit.
2. Homeruns to Panelboards must be installed as shown on the plans. Homeruns must not be combined.
3. A single insulated equipment grounding conductor, sized as required, must be installed in each conduit run.

STANDARD NOTES

- RLD Relocated equipment.
- BC Install pull box in existing conduit run.
- CC Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- SC Splice new to existing conductors.

STANDARD PLANS

- Dated 2010
- RSP ES-1A
 - RSP ES-1B
 - RSP ES-1C
 - ES-6A

APPROVED FOR ELECTRICAL WORK ONLY

1 REPLACED PER ADDENDUM No.1 DATED SEPTEMBER 26, 2014

1 MODIFY PUMPING PLANT ELECTRICAL EQUIPMENT

DESIGN	BY	Jaswinder Sandhu	CHECKED		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE No. VARIOUS POST MILE	DISTRICT 06 VARIOUS PUMPING PLANT WIRE THEFT REPAIR	SHEET EE0-1	
	DETAILS	BY	Ed D. Tapalla 10/13	CHECKED					Jaswinder Sandhu
	QUANTITIES	BY	Jaswinder Sandhu	CHECKED					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3597 CONTRACT No.: 005801 PROJECT NUMBER & PHASE: 06130003051	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial - CCSC Rev. 02/13									

25-SEP-2014 15:13

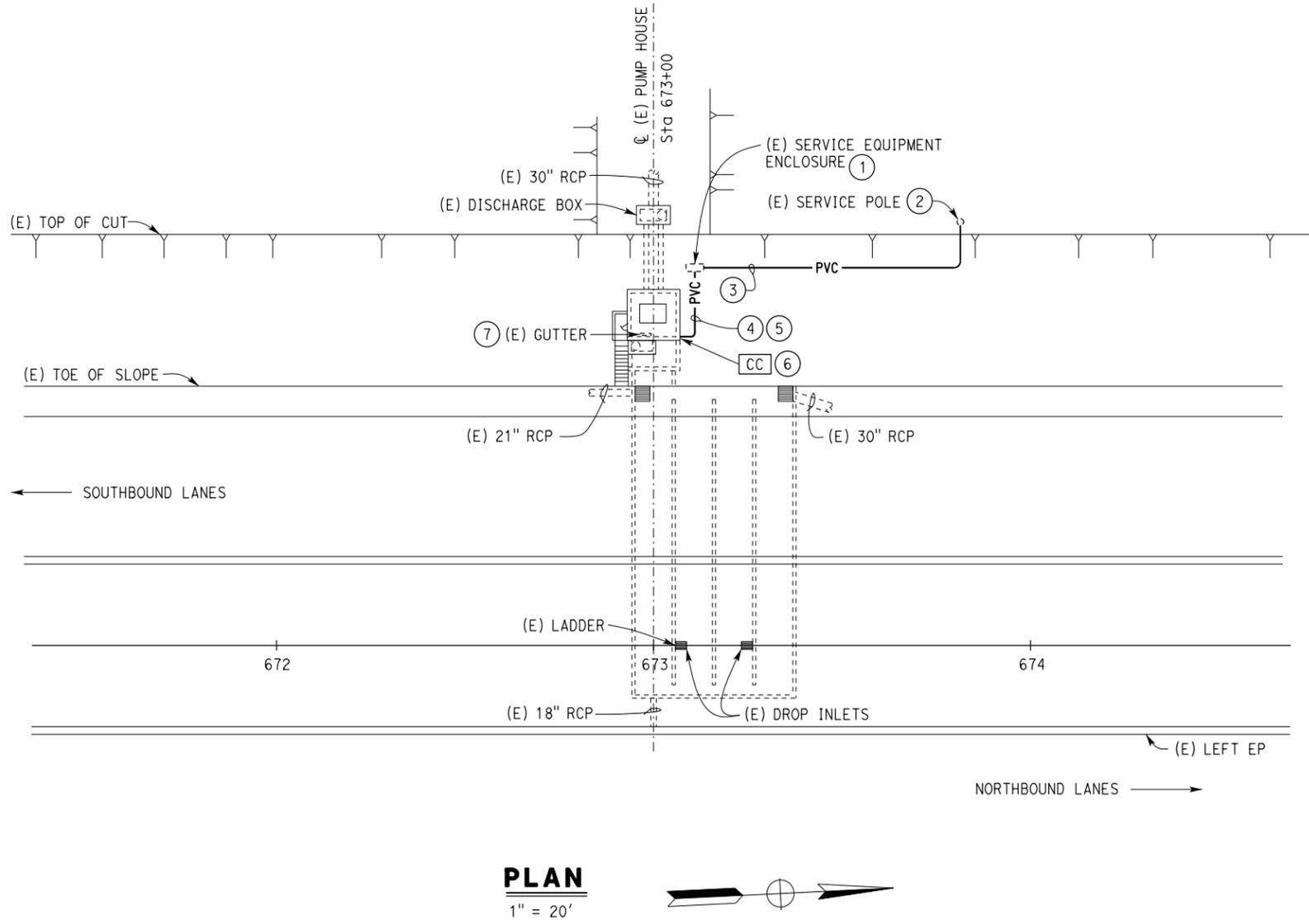
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	58, 99	Var	46	57

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No. E 11803
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GENERAL NOTES:

- A. Existing underground electrical conduits and conductors system as shown are diagrammatic and their location as shown is approximate only. Therefore, field verify exact location of existing underground facilities prior to the beginning of trenching and or removal work. The cost for pot holing and for locating existing underground utilities shall be considered to be paid for in the lump sum price and no additional cost will be paid.
 - B. Not all electrical systems are shown on this plan.
 - C. Remove existing concrete foundation for the existing service equipment's.
 - 1** D. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- NOTES:
- ① Replace existing Service Equipment Enclosure with new 480-Volts, 200-Ampere, 3-phase and 4-wire Service Equipment Enclosure with 200-Ampere Main Service Disconnect. See sheet EE0-8 and EE0-9 for Details.
 - ② Remove existing Service entrance conductors between existing Service Equipment Enclosure and existing Service pole. Remove exposed conduit and weatherhead and abandon underground conduit.
 - ③ Install 4\"/>

PLAN
1" = 20'



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1 MODIFY PUMPING PLANT ELECTRICAL EQUIPMENT

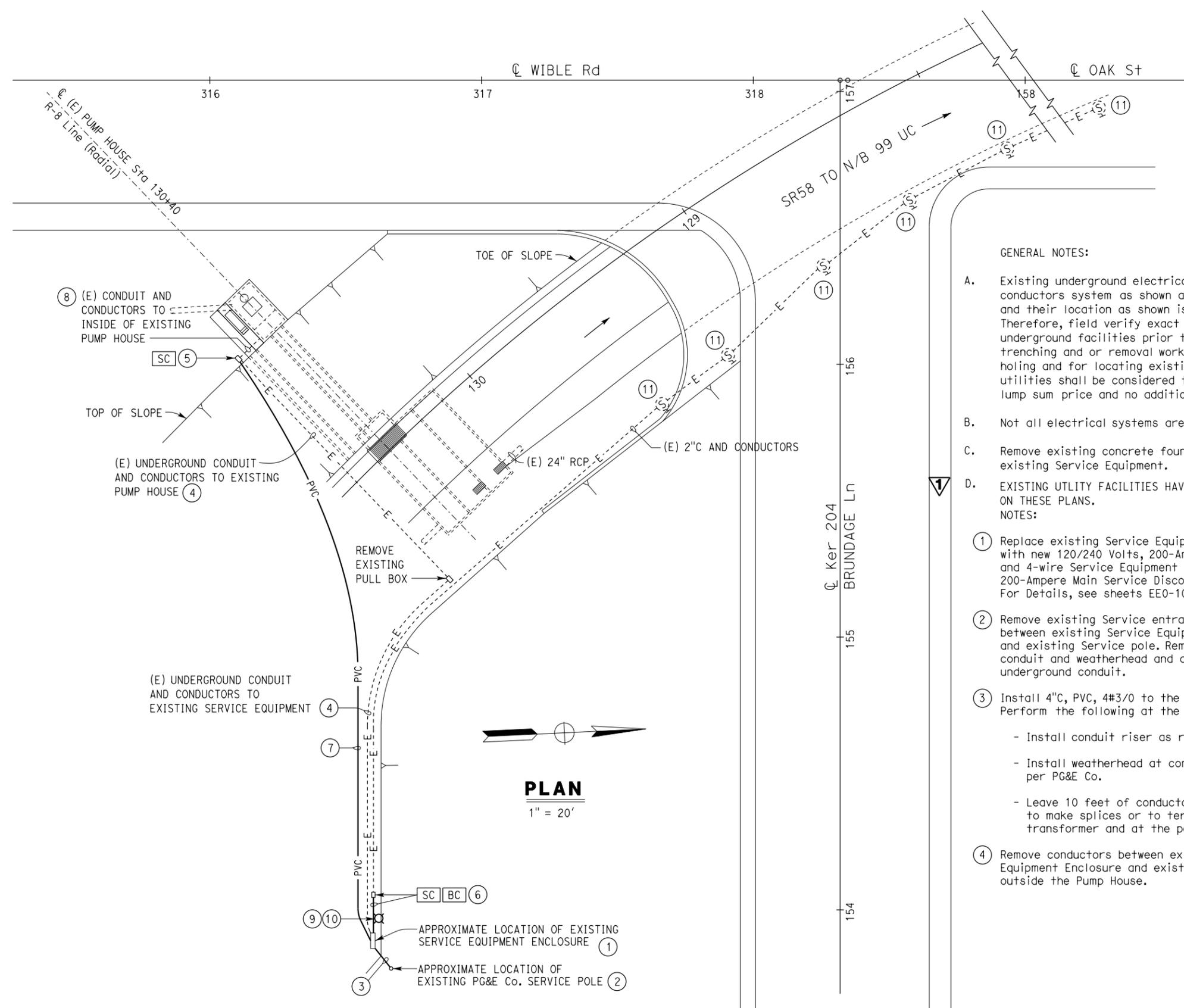
DESIGN BY Jaswinder Sandhu CHECKED	BY K. Andreasen/E. Tapalla CHECKED Jaswinder Sandhu	CHECKED Jaswinder Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 50-263W	DISTRICT 06 VARIOUS PUMPING PLANT WIRE THEFT REPAIR BELLE TERRACE OC PUMPING PLANT WORK LOCATION No. 1 SITE PLAN	SHEET EE0-2
					POST MILE 23.2		
					DISREGARD PRINTS BEARING EARLIER REVISION DATES		
QUANTITIES BY Jaswinder Sandhu CHECKED			UNIT: 3597 CONTRACT No.: 005801 PROJECT NUMBER & PHASE: 06130003051	BRIDGE No. 50-263W POST MILE 23.2	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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- GENERAL NOTES:
- A. Existing underground electrical conduits and conductors system as shown are diagrammatic and their location as shown is approximate only. Therefore, field verify exact location of existing underground facilities prior to the beginning of trenching and or removal work. The cost for pot holing and for locating existing underground utilities shall be considered to be paid for in the lump sum price and no additional cost will be paid.
 - B. Not all electrical systems are shown on this plan.
 - C. Remove existing concrete foundation for the existing Service Equipment.
 - D. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- NOTES:
- ① Replace existing Service Equipment Enclosure with new 120/240 Volts, 200-Ampere, 3-phase and 4-wire Service Equipment Enclosure with 200-Ampere Main Service Disconnect. For Details, see sheets EE0-10 and EE0-11.
 - ② Remove existing Service entrance conductors between existing Service Equipment Enclosure and existing Service pole. Remove exposed conduit and weatherhead and abandon underground conduit.
 - ③ Install 4" PVC, 4#3/0 to the weatherhead. Perform the following at the existing Service pole:
 - Install conduit riser as required by PG&E Co.
 - Install weatherhead at conduit termination per PG&E Co.
 - Leave 10 feet of conductor length for PG&E to make splices or to terminate at existing transformer and at the pole.
 - ④ Remove conductors between existing Service Equipment Enclosure and existing pull box outside the Pump House.
 - ⑤ Replace existing pull box with No. 6 traffic rated pull box and vandal proof cover. For Details, see sheet EE0-11.
 - ⑥ Intercept existing conduit and conductors and install No. 5 traffic rated pull box with vandal proof cover. For Details, see sheet EE0-11. Perform the following:
 - Install 2" PVC, 4#6, 1#6G between No. 5 traffic rated pull box and new Service Equipment Enclosure.
 - Modify existing conduit and conductors and terminate inside the new pull box.
 - ⑦ 4" PVC, 4#4/0, 1#4/0G. Install this conduit by utilizing only directional boring method. If required for ease of pulling conductors, install additional No. 6 traffic rated pull box in the shoulder as required. For Details, see sheet EE0-11.
 - ⑧ Perform the following:
 - Rod out existing conduit to make room for adding new conductor.
 - Add 1#4/0 ground.
 - Install ground lug inside existing Power Switch and terminate 1#4/0 ground on it.
 - ⑨ Install Type 15 Lighting Standard without a luminaire arm. For pole and foundation, see Standard Plan sheet ES-6A. Mount photoelectric unit with outdoor locking type receptacle on top of the pole facing north.
 - ⑩ Install 1" PVC, 3#12, 1#12 ground between the pole and Service Equipment Enclosure.
 - ⑪ Existing wall surface lighting fixture.

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1 MODIFY PUMPING PLANT ELECTRICAL EQUIPMENT

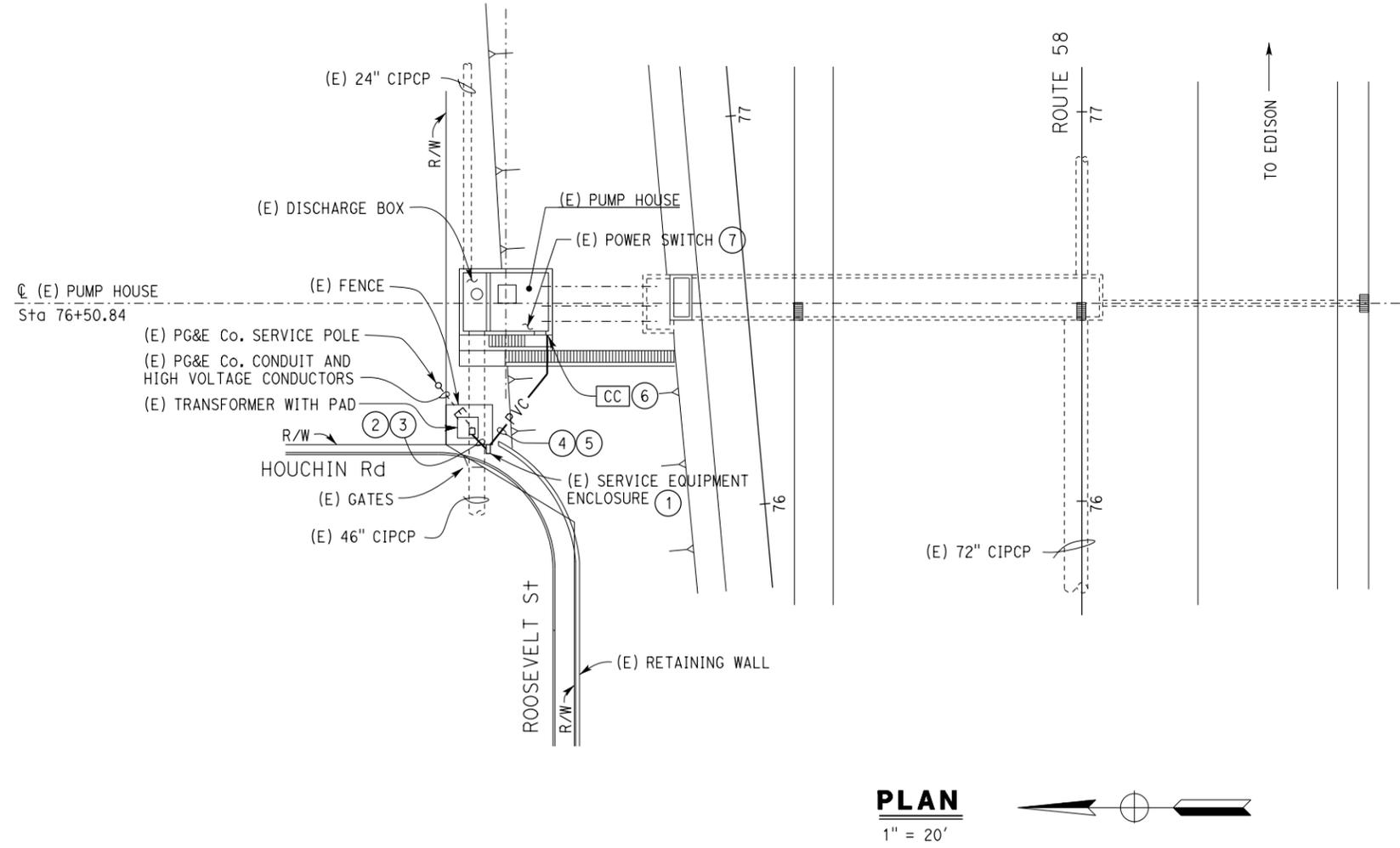
DESIGN BY Jaswinder Sandhu CHECKED	BY Kathi Andreasen CHECKED Jaswinder Sandhu	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 50-432W	DISTRICT 06 VARIOUS PUMPING PLANT WIRE THEFT REPAIR	SHEET EE0-3
					POST MILE R52.4		
					ROUTE 99 NORTHBOUND TUNNEL PUMPING PLANT		
QUANTITIES BY Jaswinder Sandhu CHECKED					WORK LOCATION No. 2 SITE PLAN		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3597 CONTRACT No.: 005801 PROJECT NUMBER & PHASE: 06130003051	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	58, 99	Var	48	57

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6-23-14
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Jaswinder Sandhu
No. E 11803
Exp. 9-30-14
ELEC
STATE OF CALIFORNIA

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PLAN
1" = 20'

GENERAL NOTES:

- A. Existing underground electrical conduits and conductors system as shown are diagrammatic and their location as shown is approximate only. Therefore, field verify exact location of existing underground facilities prior to the beginning of trenching and or removal work. The cost for pot holing and for locating existing underground utilities shall be considered to be paid for in the lump sum price no additional cost will be paid.
 - B. Not all electrical systems are shown on this plan.
 - C. Remove existing concrete foundation for the existing Service Equipment.
 - 1** D. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- NOTES:
- 1** Replace existing Service Equipment Enclosure with new 480 Volts, 200-Ampere, 3-phase and 4-wire Service Equipment Enclosure with 200-Ampere Main Service Disconnect. For Details, see sheet EE0-8 and EE0-9.
 - 2** Remove existing Service entrance conductors between existing Service Equipment Enclosure and existing transformer. Remove exposed conduit and abandon underground conduit.
 - 3** Install 4"C, PVC, 4#4/0 between the existing transformer and new Service Equipment Enclosure. All work to be performed strictly per PG&E Co. requirements.
 - 4** Remove conductors between existing Service Equipment Enclosure and existing Power Switch (PS) inside the Pump-house. Intercept existing conduit inside the stairwell for reuse. Remove exposed portion of the conduit and abandon underground conduit.
 - 5** Install 2"C, 3#4/0, 1#4/0 ground between existing Power Switch and new 200-Ampere Service Equipment Enclosure.
 - 6** Connect new conduit to existing either inside the stairwell or underground outside as determined in the field. Core drill hole thru existing wall for conduit entry if required.
 - 7** Terminate conductors on the Power Switch and ground lug as required. Replace existing ground lug inside Power Switch if needed for terminating #4/0 ground conductor.

APPROVED FOR ELECTRICAL WORK ONLY

1 REPLACED PER ADDENDUM No.1 DATED SEPTEMBER 26, 2014

1 MODIFY PUMPING PLANT ELECTRICAL EQUIPMENT

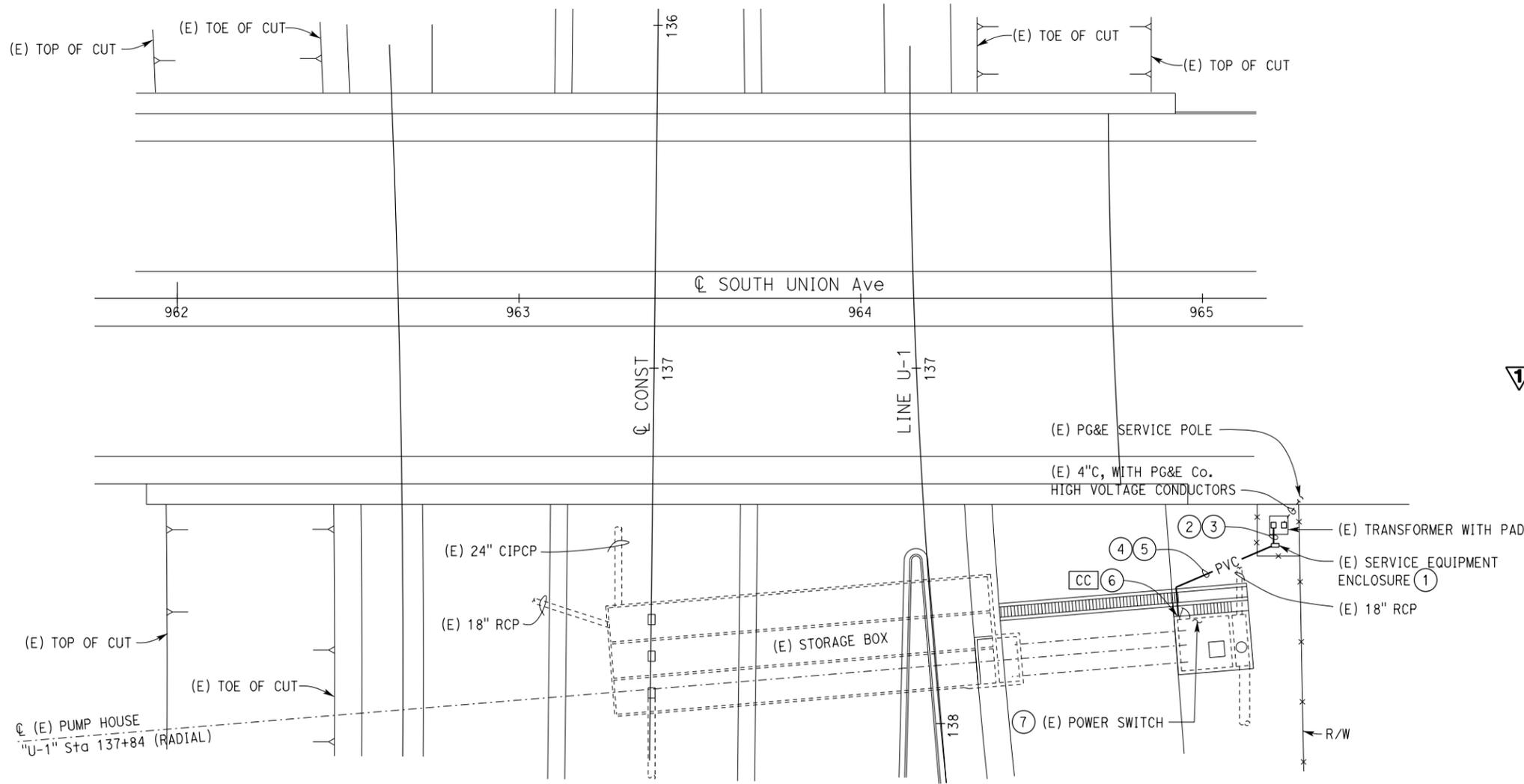
DESIGN BY Jaswinder Sandhu CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 50-404W	DISTRICT 06 VARIOUS PUMPING PLANT WIRE THEFT REPAIR		SHEET
DETAILS BY K. Andreasen/E. Tapalla CHECKED Jaswinder Sandhu		POST MILE	SOUTH "H" STREET OC PUMPING PLANT	WORK LOCATION No. 3 SITE PLAN		EE0-4
QUANTITIES BY Jaswinder Sandhu CHECKED		UNIT: 3597 CONTRACT No.: 005801 PROJECT NUMBER & PHASE: 06130003051	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	58, 99	Var	49	57

Jaswinder S Sandhu 11-07-13
REGISTERED ELECTRICAL ENGINEER DATE
6-23-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jaswinder Sandhu
No. E 11803
Exp. 9-30-14
ELEC
STATE OF CALIFORNIA

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- GENERAL NOTES:
- A. Existing underground electrical conduits and conductors system as shown are diagrammatic and their location as shown is approximate only. Therefore, field verify exact location of existing underground facilities prior to the beginning of trenching and or removal work. The cost for pot holing and for locating existing underground utilities shall be considered to be paid for in the lump sum price and no additional cost will be paid.
 - B. Not all electrical systems are shown on this plan.
 - C. Remove existing concrete foundation for the existing Service Equipment.
 - 1** D. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- NOTES:
- 1** Replace existing Service Equipment Enclosure with new 480 Volts, 200-Ampere, 3-phase and 4-wire Service Equipment Enclosure with 200-Ampere Main Service Disconnect. For details, see sheet EE0-8 and EE0-9.
 - 2** Remove existing Service entrance conductors between existing Service Equipment Enclosure and existing transformer. Remove exposed conduit and abandon underground conduit.
 - 3** Install 4\"C, PVC, 4#4/0 between the existing transformer and new Service Equipment Enclosure. All work to be performed strictly per PG&E Co. requirements.
 - 4** Remove conductors between existing Service Equipment Enclosure and existing Power Switch (PS) inside the Pump-house. Intercept existing conduit inside the stairwell for reuse. Remove exposed portion of the conduit and abandon underground conduit.
 - 5** Install 2\"C, 3#4/0, 1#4/0 ground between existing Power Switch and new 200-Ampere Service Equipment Enclosure.
 - 6** Connect new conduit to existing either inside the stairwell or underground outside as determined in the field. Core drill hole thru existing wall for conduit entry if required.
 - 7** Terminate conductors on the Power Switch and ground lug as required. Replace existing ground lug inside Power Switch if needed for terminating #4/0 ground conductor.

PLAN
1" = 20'

APPROVED FOR ELECTRICAL WORK ONLY

1 REPLACED PER ADDENDUM No.1 DATED SEPTEMBER 26, 2014

1 MODIFY PUMPING PLANT ELECTRICAL EQUIPMENT

DESIGN BY Jaswinder Sandhu CHECKED	BY K. Andreasen/E. Tapalla CHECKED Jaswinder Sandhu	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 50-406W	DISTRICT 06 VARIOUS PUMPING PLANT WIRE THEFT REPAIR	SHEET EE0-5	
					POST MILE R54.4			SOUTH UNION AVENUE OC PUMPING PLANT
					WORK LOCATION No. 4 SITE PLAN			
QUANTITIES BY Jaswinder Sandhu CHECKED					UNIT: 3597 CONTRACT No.: 005801 PROJECT NUMBER & PHASE: 06130003051	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

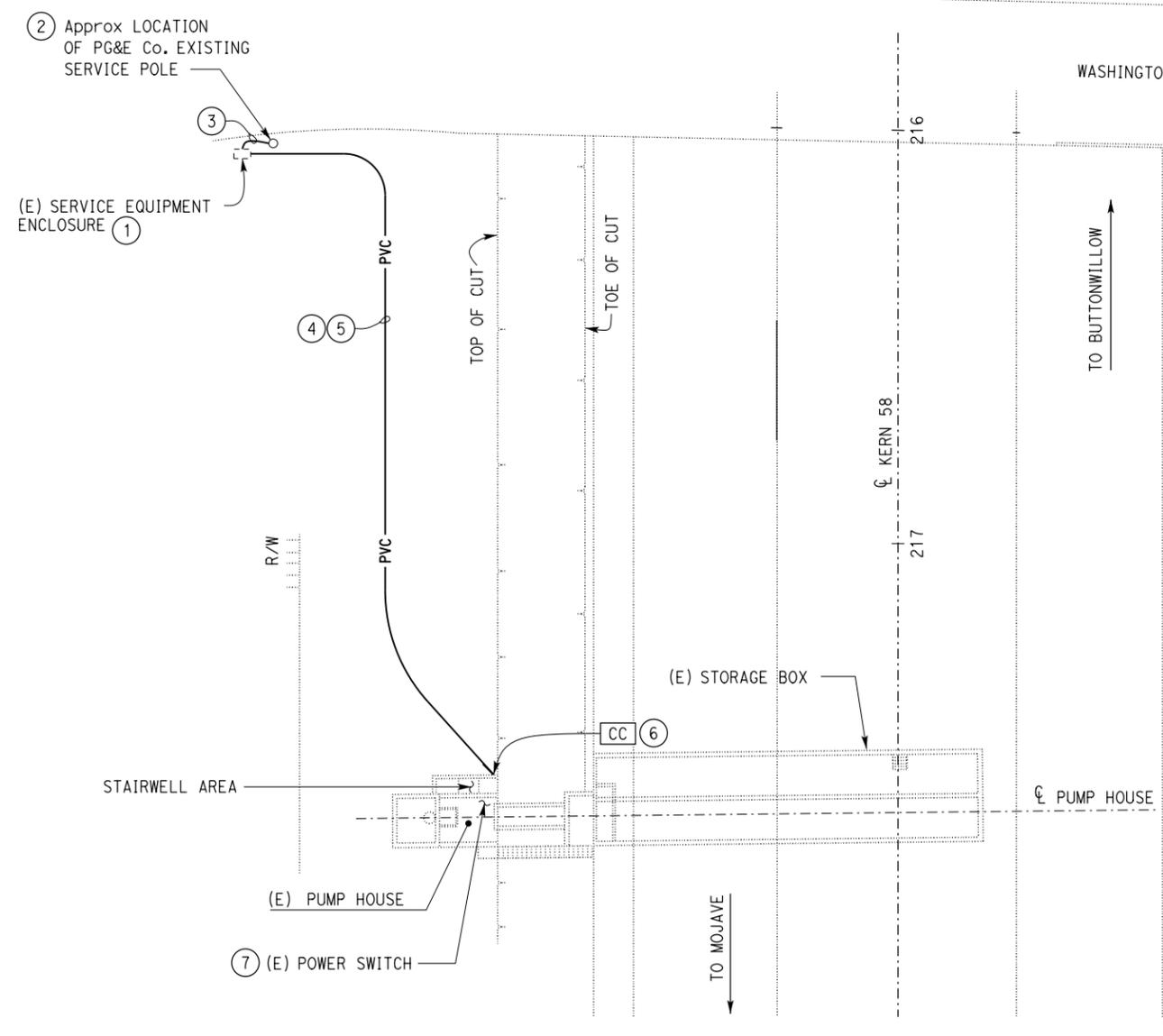
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	58, 99	Var	50	57

Jaswinder S Sandhu 11-07-13
REGISTERED ELECTRICAL ENGINEER DATE

6-23-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jaswinder Sandhu
No. E 11803
Exp. 9-30-14
ELEC
STATE OF CALIFORNIA

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PLAN
1" = 20'

- GENERAL NOTES:
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 - B. Not all electrical systems are shown on this plan.
 - C. Remove existing concrete foundation for the existing Service Equipment.
 - D. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- NOTES:
- ① Replace existing Service Equipment Enclosure with new 480 Volts, 200-Ampere, 3-phase and 4-wire Service Equipment Enclosure with 150-Ampere Main Service Disconnect. For Details, see sheets EE0-8 and EE0-9.
 - ② Remove existing Service entrance conductors between existing Service Equipment Enclosure and existing Service pole. Remove exposed conduit and weatherhead and abandon underground conduit.
 - ③ Install 4" C, PVC, 4#3/0. Perform the following at the existing Service pole:
 - Install conduit riser as required by PG&E Co.
 - Install weatherhead at conduit termination per PG&E Co.
 - Leave 10 feet of conductor length for PG&E to make splices or to terminate at existing transformer and at the pole.
 - ④ Remove conductors between existing Service Equipment Enclosure and existing Power Switch (PS) inside the Pump House. Intercept existing conduit outside the pump house for reuse. Remove exposed portion of the conduit where applicable and abandon underground conduit.
 - ⑤ Install 2" C, 4#2/0, 1#2/0 ground between existing Power Switch and new 150-Ampere Service Equipment Enclosure. Install this conduit by utilizing only directional boring method. If required for ease of pulling conductors, install additional No. 6 traffic rated pull box in the shoulder as required.
 - ⑥ Connect new conduit to existing conduit inside the Pump House. Core drill hole thru existing wall for conduit entry if required. Provide provision for water drainage in the conduit out in the stairwell area.
 - ⑦ Terminate conductors on the Power Switch and ground bus as required. Replace existing ground lug inside Power Switch if needed for terminating #2/0 ground conductor.

APPROVED FOR ELECTRICAL WORK ONLY

1 REPLACED PER ADDENDUM No.1 DATED SEPTEMBER 26, 2014

MODIFY PUMPING PLANT ELECTRICAL EQUIPMENT

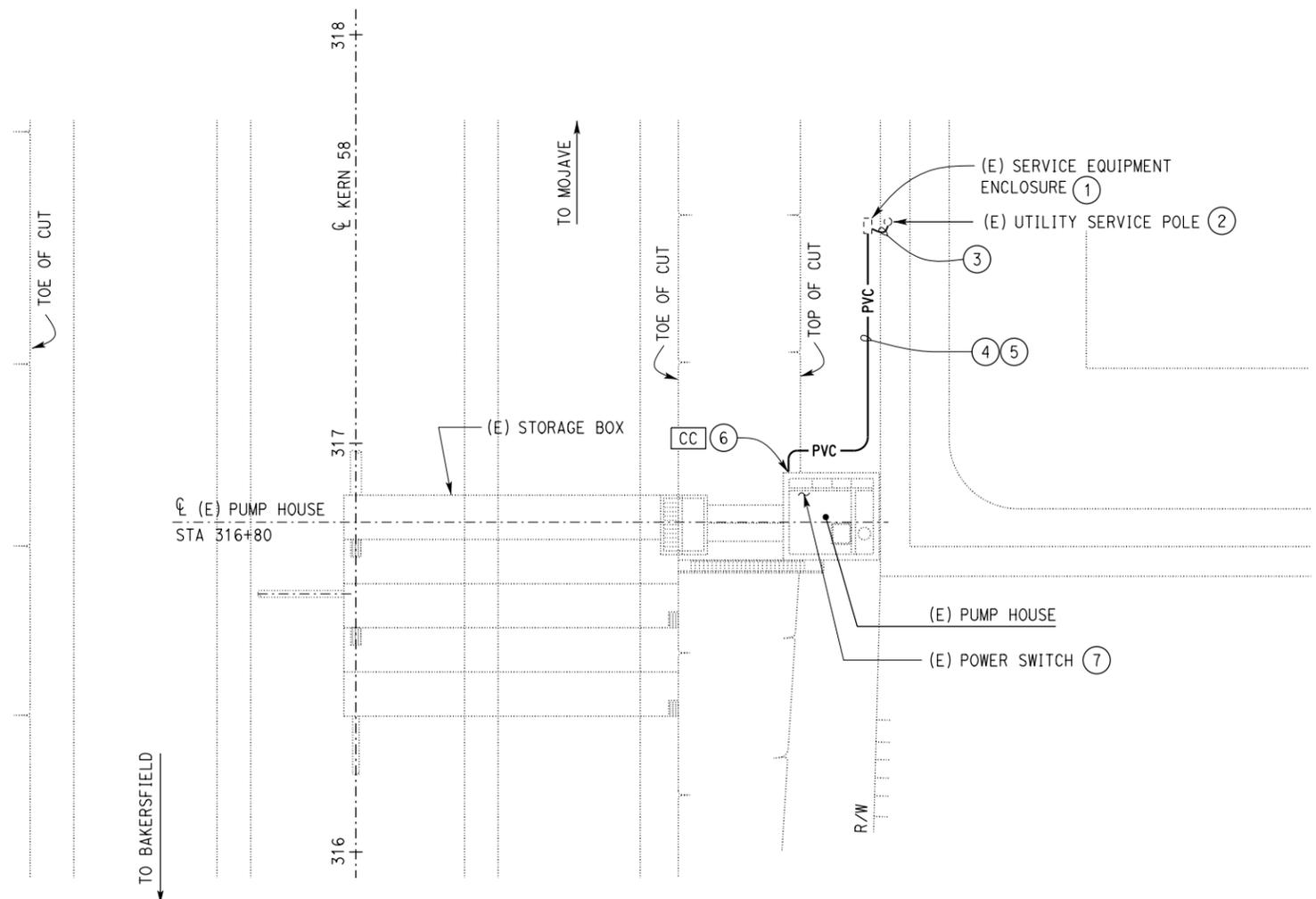
DESIGN BY Jaswinder Sandhu CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 50-391W	DISTRICT 06 VARIOUS PUMPING PLANT WIRE THEFT REPAIR	SHEET EE0-6
			POST MILE WASHINGTON ST OC PUMPING PLANT		
			WORK LOCATION No. 7 SITE PLAN		
DETAILS BY Ed D. Tapalla 10/13 CHECKED Jaswinder Sandhu	UNIT: 3597 CONTRACT No.: 005801 PROJECT NUMBER & PHASE: 06130003051	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
QUANTITIES BY Jaswinder Sandhu CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	10-2-13 11-7-13		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	58, 99	Var	51	57

Jaswinder S Sandhu 11-07-13
REGISTERED ELECTRICAL ENGINEER DATE
6-23-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jaswinder Sandhu
No. E 11803
Exp. 9-30-14
ELEC
STATE OF CALIFORNIA

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PLAN
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 - C. Remove existing concrete foundation for the existing Service Equipment.
 - 1** D. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- NOTES:

- ① Replace existing Service Equipment Enclosure with new 480 Volts, 400-Ampere, 3-phase and 4-wire Service Equipment Enclosure with 300-Ampere Main Service Disconnect. For Details, see sheets EE0-8 and EE0-9.
- ② Remove existing Service entrance conductors between existing Service Equipment Enclosure and existing Service pole. Remove exposed conduit and weatherhead and abandon underground conduit.
- ③ Install 4"C, PVC, 4#350 kcmil. Perform the following at the existing Service pole:
 - Install conduit riser as required by PG&E Co.
 - Install weatherhead at conduit termination per PG&E Co.
 - Leave 10 feet of conductor length for PG&E to make splices or to terminate at existing transformer and at the pole.
- ④ Remove conductors between existing Service Equipment Enclosure and existing Power Switch (PS) inside the Pump House. Intercept existing conduit inside the stairwell for reuse. Remove exposed portion of the conduit and abandon underground conduit.
- ⑤ Install 3"C, 3#300 kcmil, 1#300 kcmil ground between existing Power Switch and new 300-Ampere Service Equipment Enclosure.
- ⑥ Connect new conduit to existing either inside the stairwell or underground outside as determined in the field. Core drill hole thru existing wall for conduit entry if required.
- ⑦ Terminate conductors on the Power Switch and ground bus as required. Replace existing ground lug inside Power Switch if needed for terminating #300 kcmil ground conductor.

APPROVED FOR ELECTRICAL WORK ONLY

1 REPLACED PER ADDENDUM No.1 DATED SEPTEMBER 26, 2014

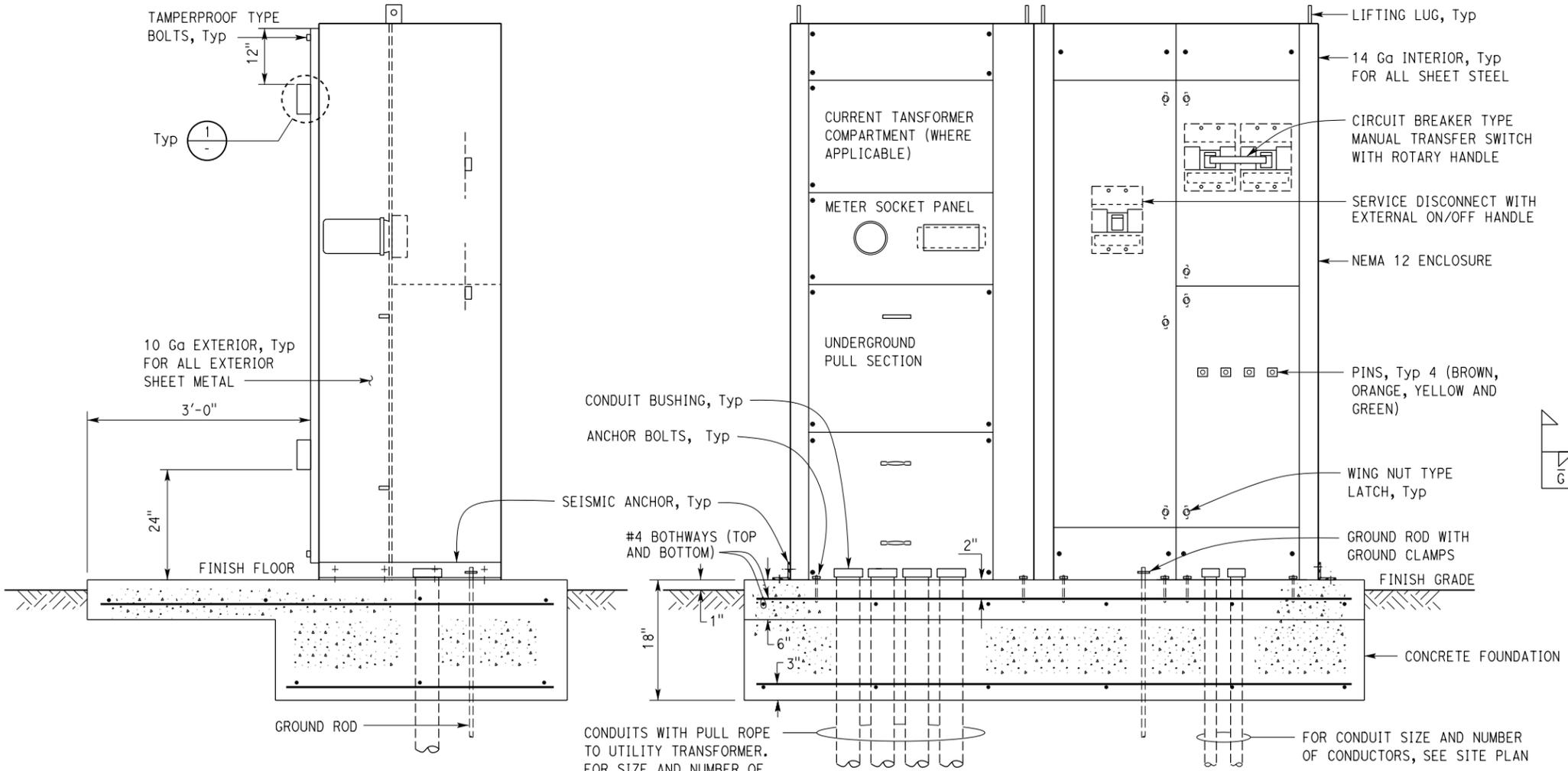
MODIFY PUMPING PLANT ELECTRICAL EQUIPMENT

DESIGN BY Jaswinder Sandhu CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 50-394W	DISTRICT 06 VARIOUS PUMPING PLANT WIRE THEFT REPAIR STERLING ROAD OC PUMPING PLANT WORK LOCATION No. 9 SITE PLAN	SHEET EE0-7
			POST MILE		
			REVISION DATES (PRELIMINARY STAGE ONLY)		
DETAILS BY Ed D. Tapalla 10/13 CHECKED Jaswinder Sandhu	UNIT: 3597 CONTRACT No.: 005801 PROJECT NUMBER & PHASE: 06130003051	DISREGARD PRINTS BEARING EARLIER REVISION DATES	10-13-13 11-7-13	SHEET OF	
QUANTITIES BY Jaswinder Sandhu CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3			

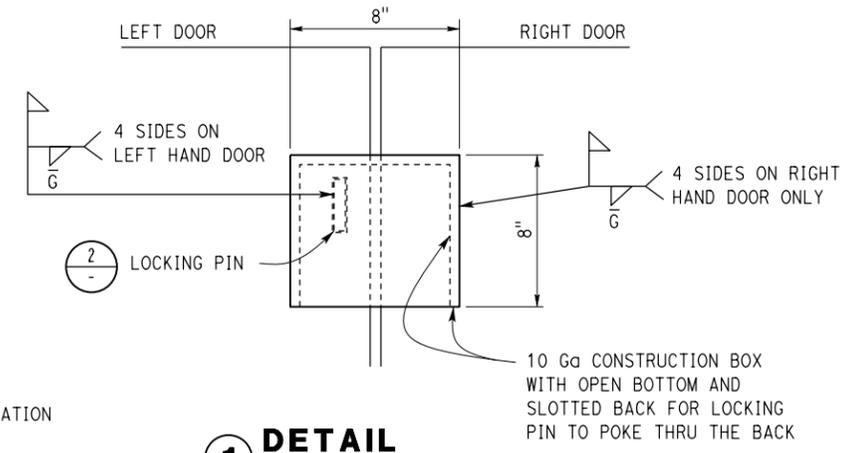
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	58, 99	Var	52	57

11-07-13
 REGISTERED ELECTRICAL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
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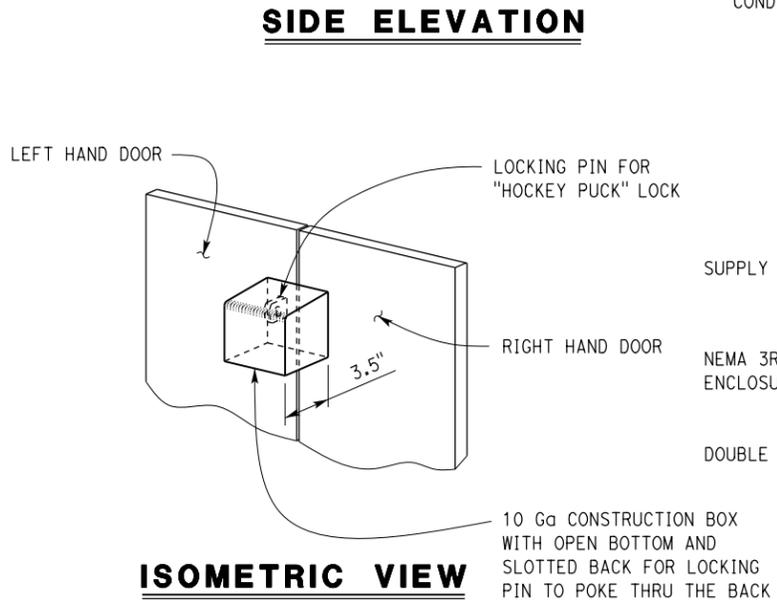
REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Sandhu
 No. E 11803
 Exp. 9-30-14
 ELEC
 STATE OF CALIFORNIA



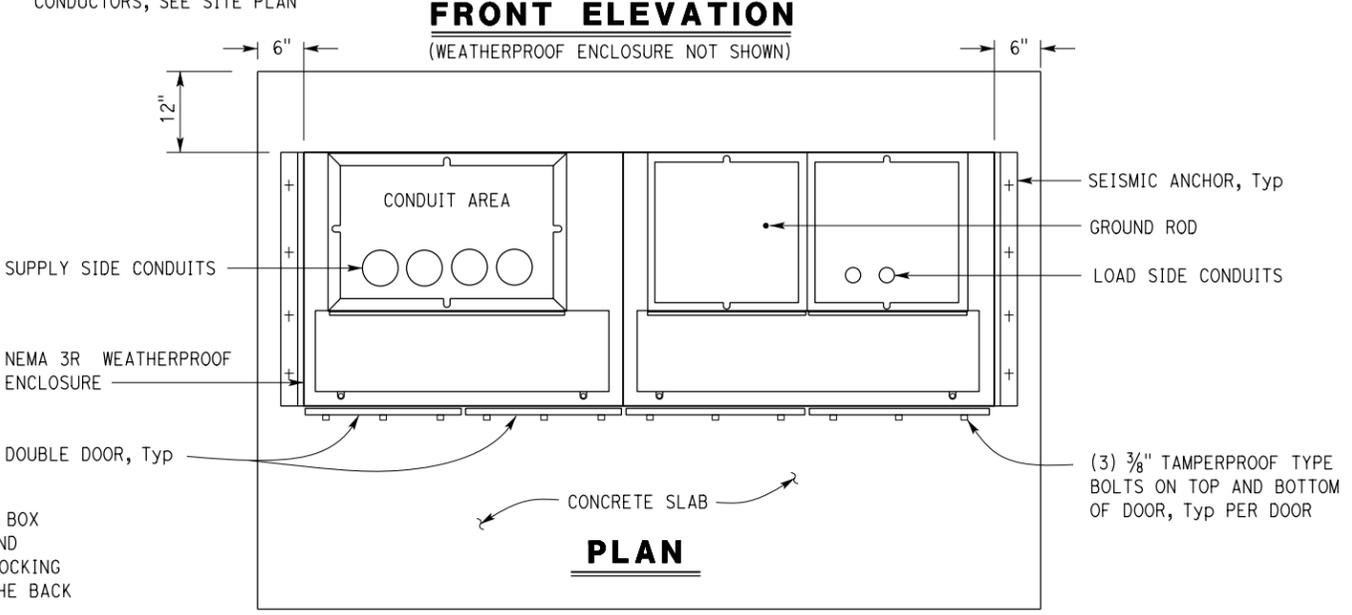
GENERAL NOTE:
For Warning Label, see Details 1 and 2 on sheet EE0-11.



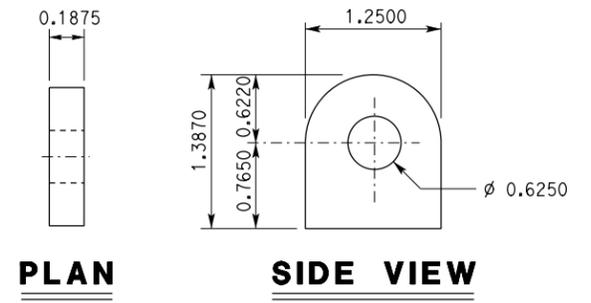
1 **DETAIL**
NO SCALE
(TYPICAL TOP AND BOTTOM)



ISOMETRIC VIEW



PLAN



2 **LOCKING PIN**
NO SCALE
Dimensions shown in inches

A **SERVICE EQUIPMENT ENCLOSURE**
NO SCALE

1 **MODIFY PUMPING PLANT ELECTRICAL EQUIPMENT**

APPROVED FOR ELECTRICAL WORK ONLY **1** **REPLACED PER ADDENDUM No.1 DATED SEPTEMBER 26, 2014**

DESIGN	BY Jaswinder Sandhu	CHECKED
DETAILS	BY Ed D. Tapalla 10/13	CHECKED Jaswinder Sandhu
QUANTITIES	BY Jaswinder Sandhu	CHECKED

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

BRIDGE No. VARIOUS POST MILE
DISTRICT 06 VARIOUS PUMPING PLANT WIRE THEFT REPAIR
SERVICE EQUIPMENT ENCLOSURE DETAILS No. 1

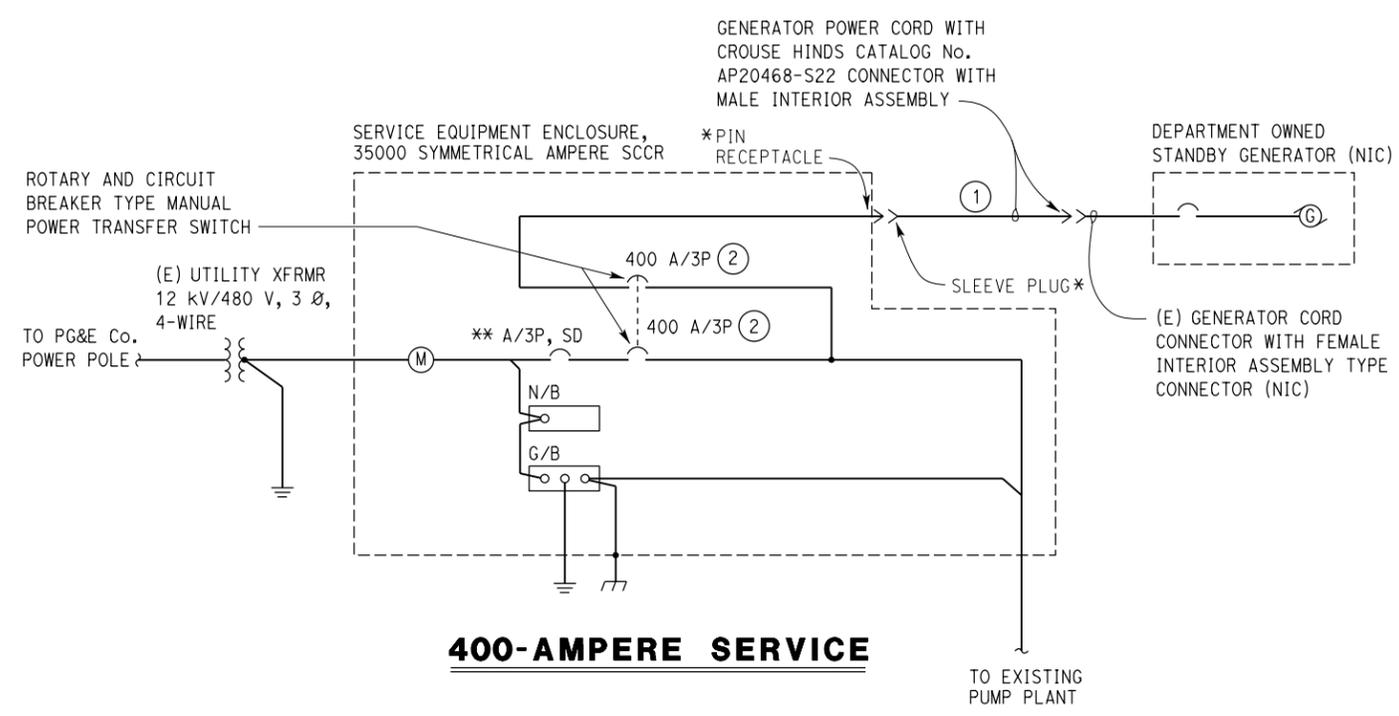
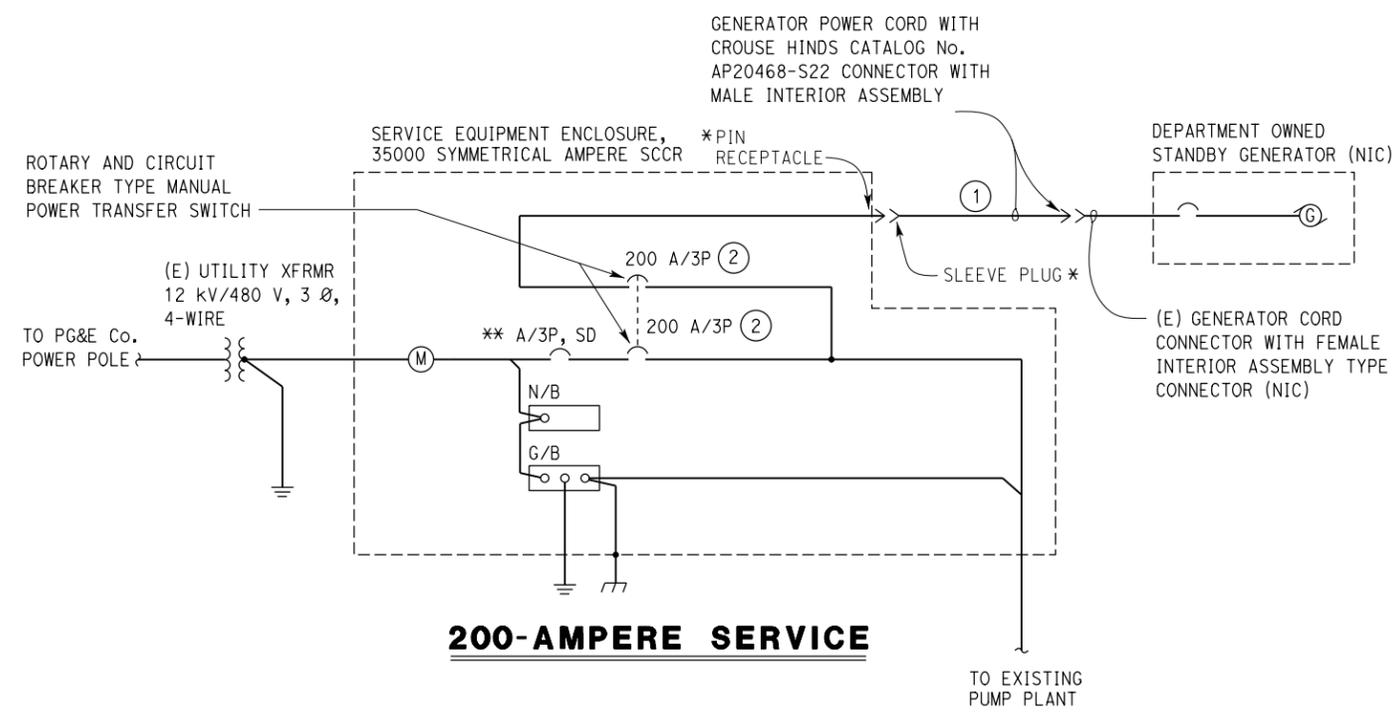
SHEET **EE0-8** OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	58, 99	Var	53	57

Jaswinder S Sandhu 11-07-13
REGISTERED ELECTRICAL ENGINEER DATE
6-23-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jaswinder Sandhu
No. E 11803
Exp. 9-30-14
ELEC
STATE OF CALIFORNIA

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SINGLE LINE DIAGRAM

* FOR PLUGGING THE DEPARTMENT OWNED STANDBY GENERATOR
** FOR FRAME AND TRIP RATING, SEE TABLE THIS SHEET

- NOTES:
- Supply total of two power cords with the following characteristics:
 - Must be 10 feet long.
 - Must have 3#3/0, 1#3/0 ground conductors.
 - Each conductors of the cord must be strands conductors with MTW type insulation.
 - Conductors must be enclosed inside PVC jacket.
 - Must have male interior assembly type Crouse Hinds Catalog #AP20468-S22 connector at one end.
 - Must have 400 Ampere, 480 Volt, rated sleeve plug receptacle at the other end to match the pin receptacle within the Service Equipment.
 - Mechanically interlocked and circuit breaker type manual transfer switch with externally operable Rotary type handle.
 - See sheets EE0-10 and EE0-11 for Service Enclosure Equipment Details for this location.

LOCATION No.	LOCATION NAME	SERVICE VOLTAGE	SERVICE DISCONNECT		AIC SYMMETRICAL AMPERES
			FRAME SIZE	TRIP RATING	
1	BELLE TERRACE OVERCROSSING	480-VOLT, 3 Ø, 4-W	200	200	35000
2	ROUTE 99 NORTH-BOUND TUNNEL	240-VOLT, 3 Ø, 4-W	200	200	35000
3	SOUTH "H" ST OVERCROSSING	480-VOLT, 3 Ø, 4-W	200	200	35000
4	SOUTH UNION AVE OVERCROSSING	480-VOLT, 3 Ø, 4-W	200	200	35000
6	WASHINGTON ST OVERCROSSING	480-VOLT, 3 Ø, 4-W	200	150	35000
8	STERLING ROAD OVERCROSSING	480-VOLT, 3 Ø, 4-W	400	300	35000

APPROVED FOR ELECTRICAL WORK ONLY

1 REPLACED PER ADDENDUM No.1 DATED SEPTEMBER 26, 2014

1 MODIFY PUMPING PLANT ELECTRICAL EQUIPMENT

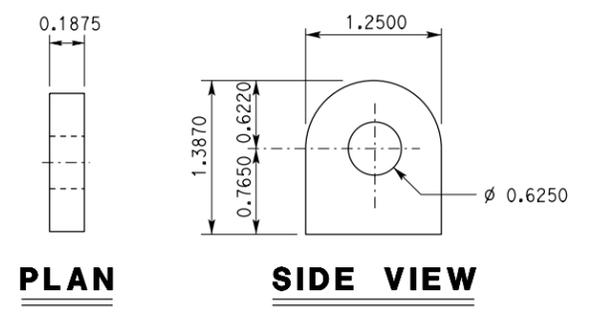
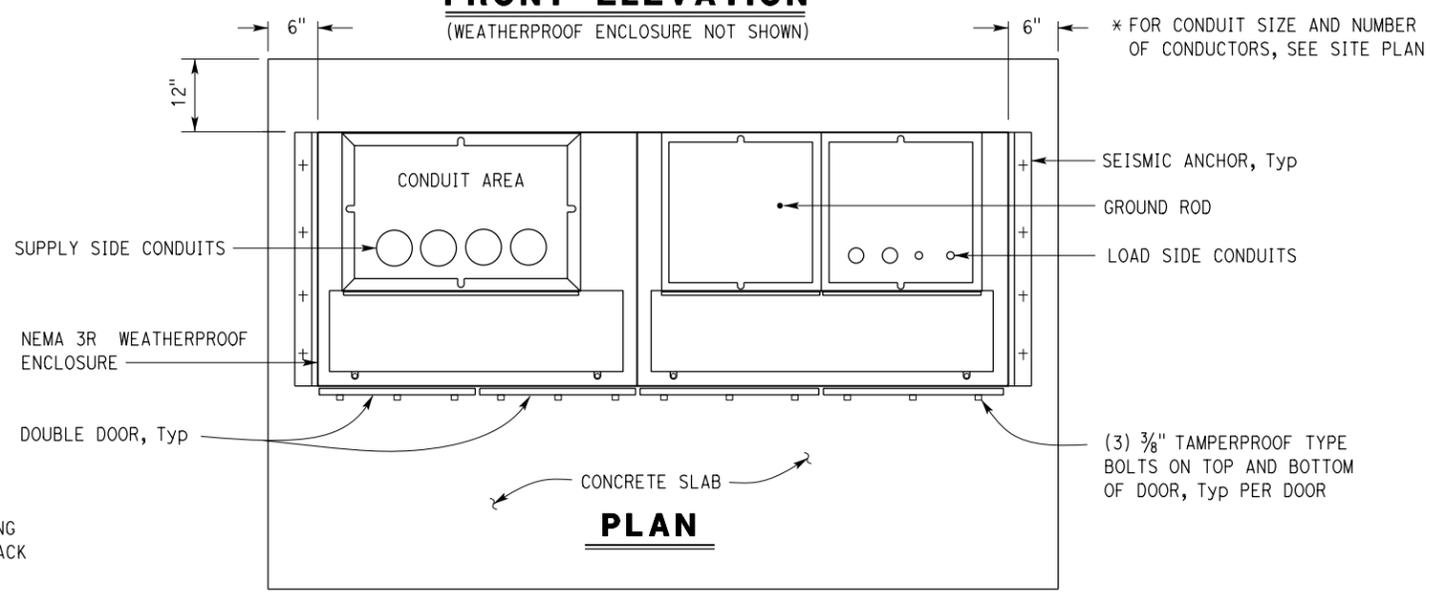
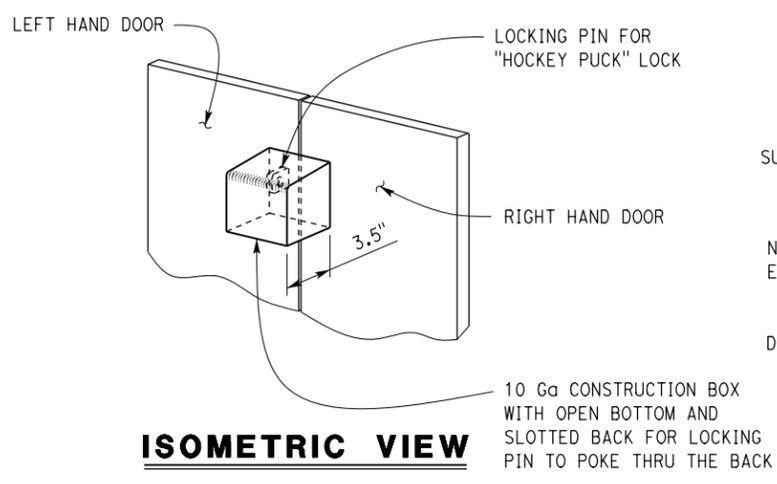
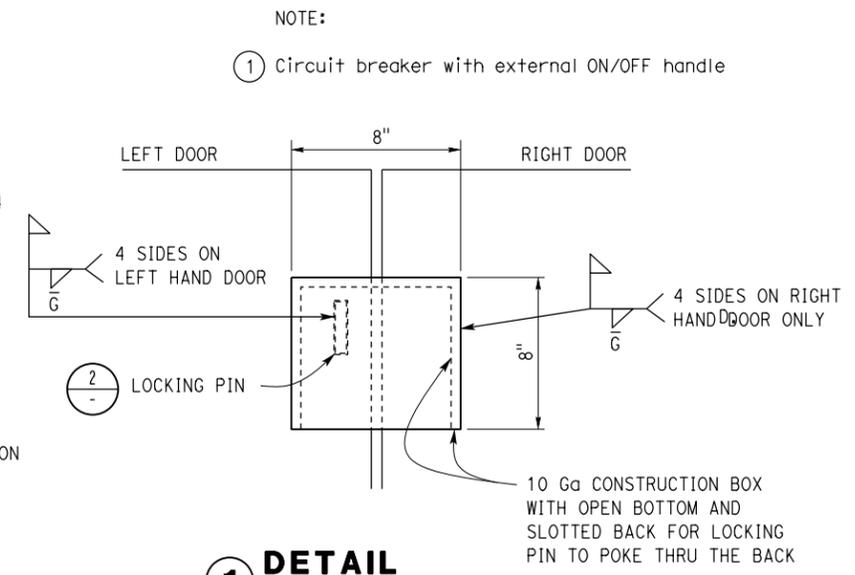
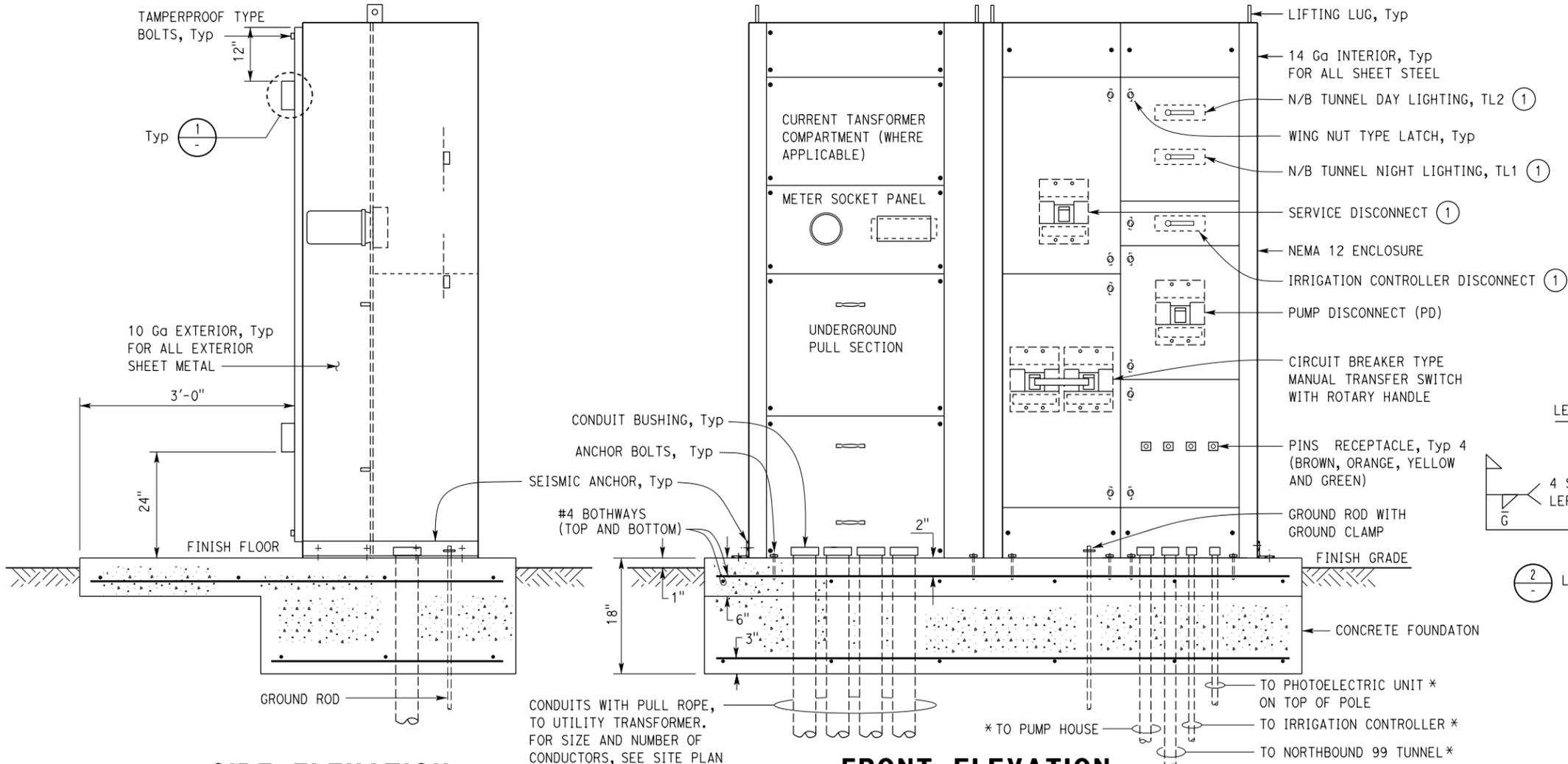
DESIGN BY Jaswinder Sandhu CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. VARIOUS POST MILE	DISTRICT 06 VARIOUS PUMPING PLANT WIRE THEFT REPAIR	SHEET OF EEO-9
DETAILS BY Ed D. Tapalla 10/13 CHECKED Jaswinder Sandhu		UNIT: 3597 CONTRACT No.: 005801 PROJECT NUMBER & PHASE: 06130003051	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY Jaswinder Sandhu CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	10-2-13 11-7-13		

TAEWW Imperial - CCSC Rev. 02/13
PrDist 06\0613000305 var dp wire theftccosvee0 09.dan

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	58, 99	Var	54	57

11-07-13
 REGISTERED ELECTRICAL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Sandhu
 No. E 11803
 Exp. 9-30-14
 ELEC
 STATE OF CALIFORNIA



② LOCKING PIN
NO SCALE
Dimensions shown in inches

① REPLACED PER ADDENDUM No.1 DATED SEPTEMBER 26, 2014
APPROVED FOR ELECTRICAL WORK ONLY

A SERVICE EQUIPMENT ENCLOSURE
NO SCALE

① MODIFY PUMPING PLANT ELECTRICAL EQUIPMENT

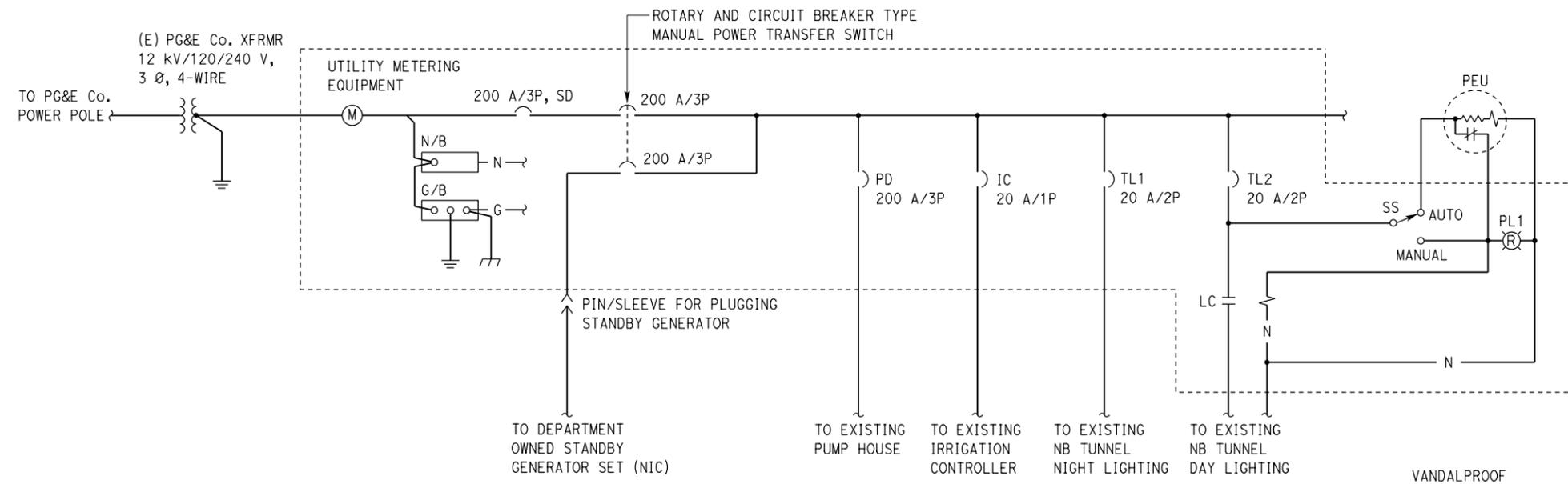
DESIGN BY	Jaswinder Sandhu	CHECKED		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	50-432W	DISTRICT 06 VARIOUS PUMPING PLANT WIRE THEFT REPAIR	SHEET	EEO-10		
DETAILS BY	Ed D. Tapalla 10/13	CHECKED	Jaswinder Sandhu			POST MILE	R52.4		ROUTE 99 NORTHBOUND TUNNEL PUMPING PLANT	SERVICE EQUIPMENT ENCLOSURE DETAILS No. 2	OF	
QUANTITIES BY	Jaswinder Sandhu	CHECKED				UNIT: 3597 CONTRACT No.: 005801 PROJECT NUMBER & PHASE: 06130003051	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	10-21-13 11-7-13		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 TAEWW Imperial - CCSC Rev. 02/13
 PrjDist 06\0613000305 var dp wire theft\ccos\ee0 10.dan

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	58, 99	Var	55	57

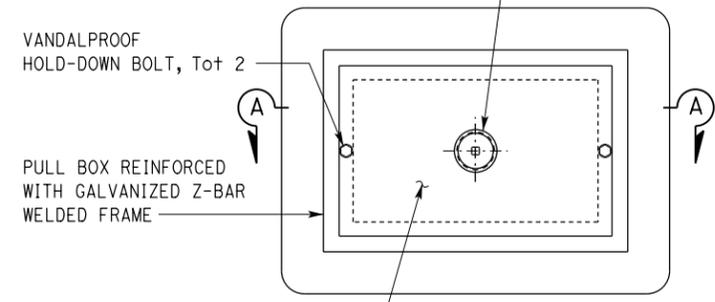
11-07-13
 REGISTERED ELECTRICAL ENGINEER DATE
 No. E 11803
 Exp. 9-30-14
 ELEC
 STATE OF CALIFORNIA

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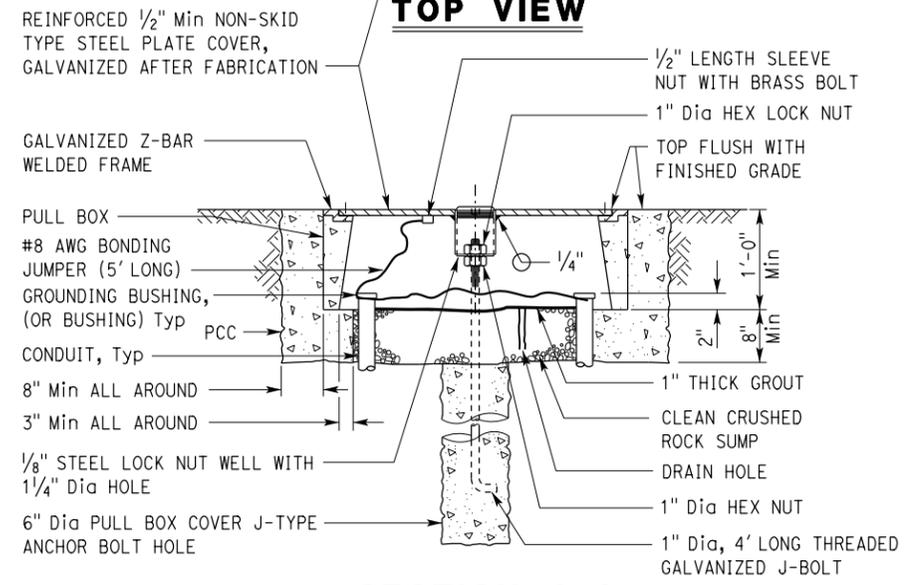


SINGLE LINE DIAGRAM

TAPERED STAINLESS STEEL THREADED TOP CAP WITH SHOULDER AND 1/2"x1/2"x1/2" SQUARE HOLE



TOP VIEW

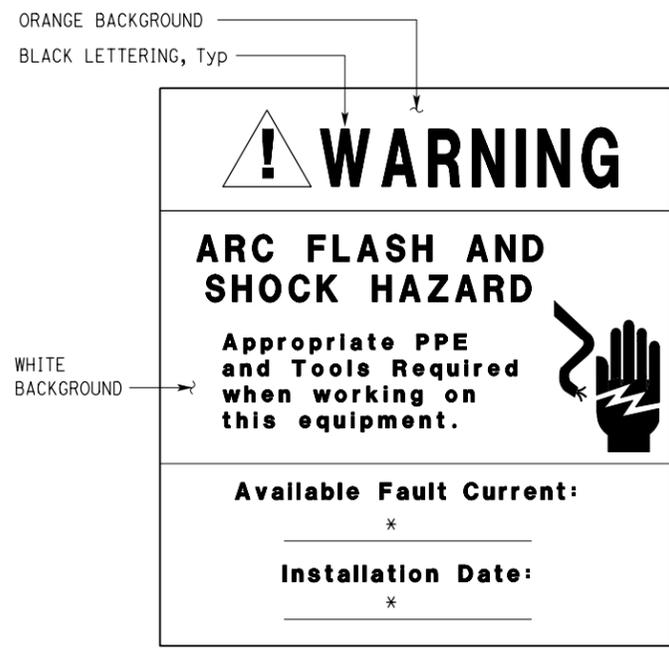


SECTION A-A

No. 5/No. 6 TRAFFIC RATED PULL BOX WITH VANDALPROOF COVER DETAIL

NO SCALE

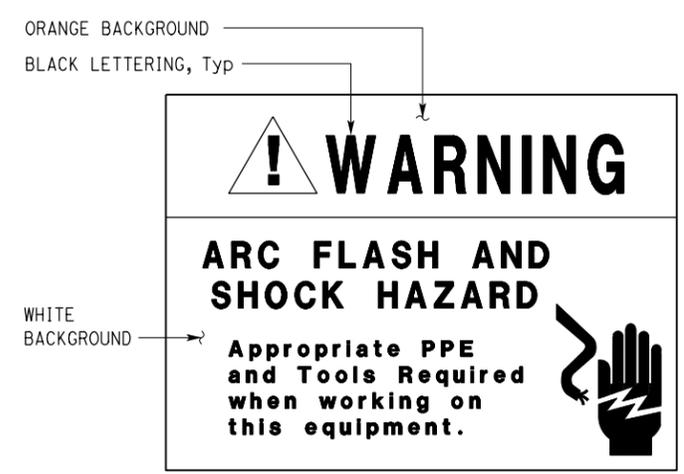
MODIFY PUMPING PLANT ELECTRICAL EQUIPMENT



1 WARNING LABEL

NOTE: All Service Equipment Enclosure and Service Disconnect Section must be legibly marked in the field with the available fault current to comply with NEC 110.24(A).

* The data will be provided by the Engineer to the Contractor after Utility Service related work is done by local Electric Utility Company.



2 WARNING LABEL

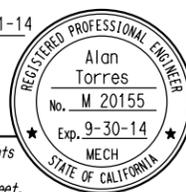
NOTES:

- Provide total of 100 of these labels to the Engineer for field installation on existing pump plant electrical equipment.
- Install this Warning Label at all Sections of the Service Equipment Enclosure.
- Warning Label must be constructed with high degree of chemical abrasion, heat resistance and UL recognized material.

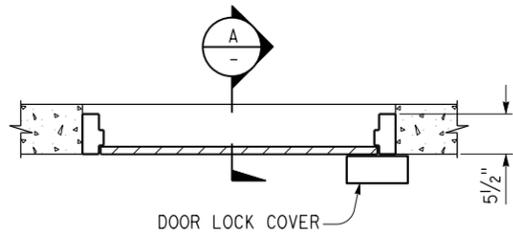
REPLACED PER ADDENDUM No.1 DATED SEPTEMBER 26, 2014
APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY	Jaswinder Sandhu	CHECKED		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	50-432W	DISTRICT 06 VARIOUS PUMPING PLANT- WIRE THEFT REPAIR	SHEET	EEO-11		
DETAILS BY	Ed D. Tapalla 10/13	CHECKED	Jaswinder Sandhu			POST MILE	R52.4		ROUTE 99 NORTHBOUND TUNNEL PUMPING PLANT	REVISION DATES (PRELIMINARY STAGE ONLY)		
QUANTITIES BY	Jaswinder Sandhu	CHECKED				UNIT: 3597 CONTRACT No.: 005801 PROJECT NUMBER & PHASE: 06130003051	DISREGARD PRINTS BEARING EARLIER REVISION DATES		10-29-13 11-7-13			

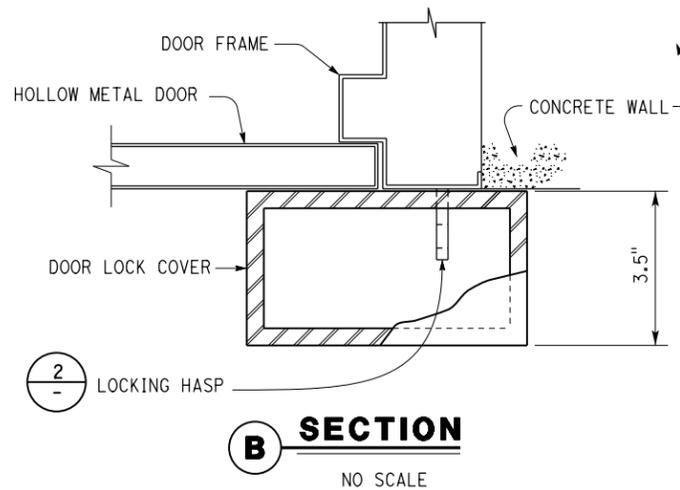
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 TAEWW Imperial - CCSC Rev. 02/13
 PrjDist 06\0613000305 var dp wire theft\ccos\ee0 11.dan

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	58, 99	Var	56	57
 REGISTERED MECHANICAL ENGINEER			06-11-14	DATE	
6-23-14			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					
					

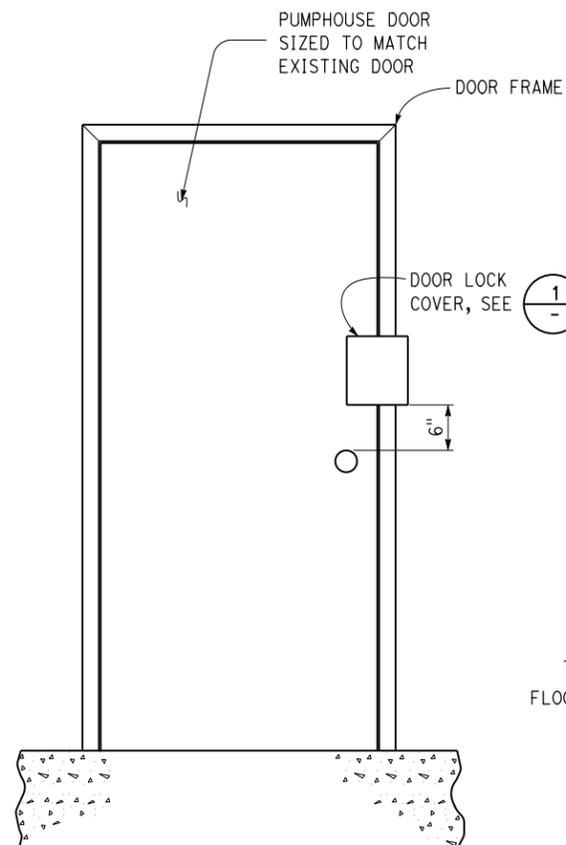
****DETAILS ARE FOR LEFT HAND DOORS.
RIGHT HAND DOOR IS OPPOSITE.****



PLAN



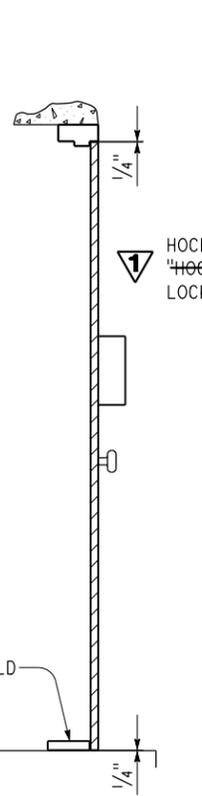
B SECTION
NO SCALE



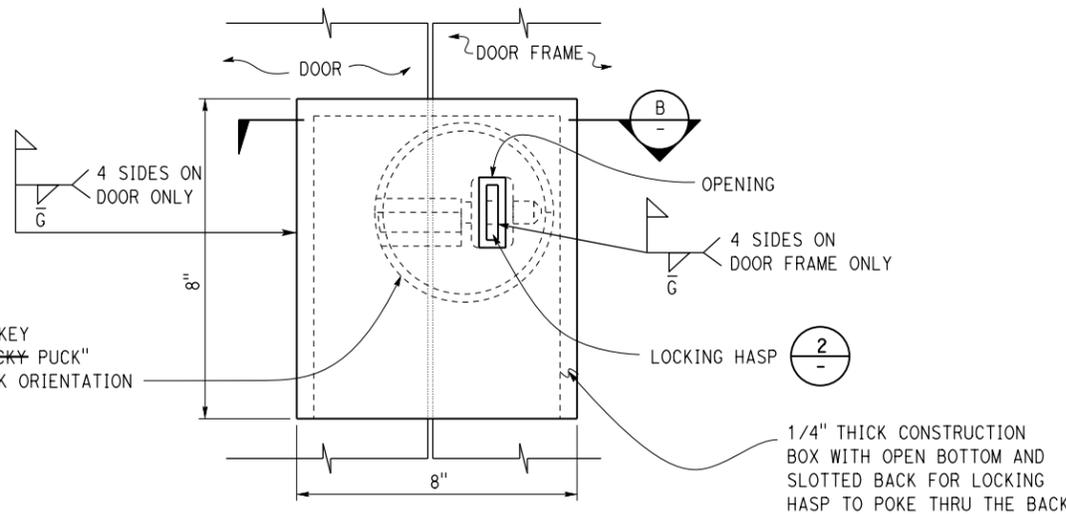
ELEVATION

PUMPHOUSE DOOR

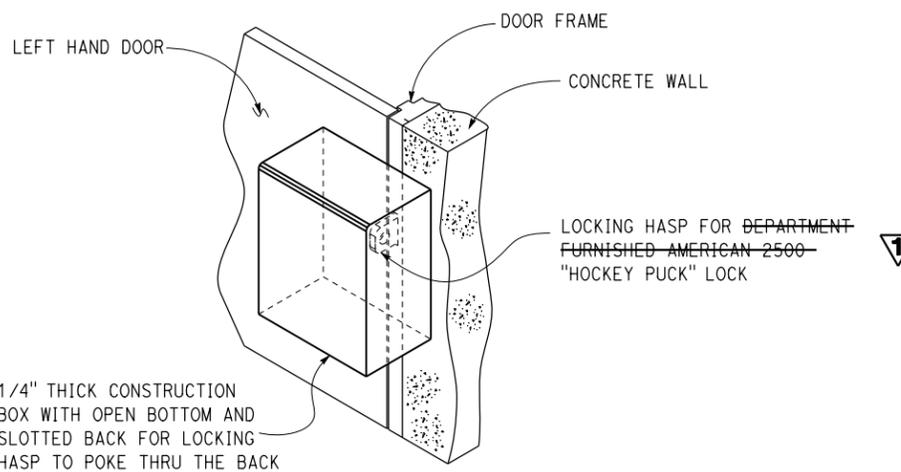
No Scale



A SECTION



1 DOOR LOCK COVER DETAIL
NO SCALE

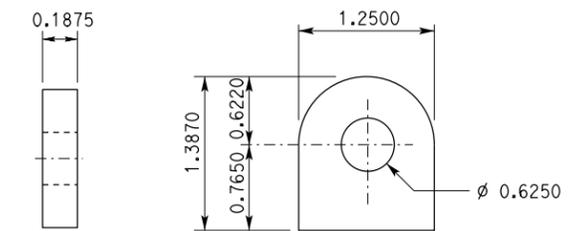


ISOMETRIC VIEW

1/4" THICK CONSTRUCTION BOX WITH OPEN BOTTOM AND SLOTTED BACK FOR LOCKING HASP TO POKE THRU THE BACK

NOTES:

- FABRICATE PUMP HOUSE DOORS AND FRAMES IN CONFORMANCE WITH ANSI/SDI A250.8 OR ANSI/NAAMM-HMMA 861.
- HINGES MUST COMPLY WITH ANSI/BHMA A156.1.
- GALVANNEALED STEEL SHEET MUST BE COMMERCIAL STEEL, TYPE B, COMPLYING WITH ASTM A 1008/A 1008M WITH AT LEAST AN A60 METALLIC COATING COMPLYING WITH ASTM A 653/A 653M.
- THE PUMP HOUSE DOOR CONSISTS OF THE DOOR AND DOOR HARDWARE. FURNISH THE FACTORY APPLIED FINISH COATING SYSTEM FOR EXTERIOR LOCATIONS.
- THE PUMP HOUSE DOORS MUST BE AT LEAST 1-3/4" THICK, FULL FLUSH, SEAMLESS HOLLOW METAL CONSTRUCTION. THE DOORS MUST COMPLY WITH ANSI/SDI A250.4, PHYSICAL ENDURANCE LEVEL A, AND THE FOLLOWING:
 - FABRICATE FACE SHEETS, VERTICAL STIFFENERS, AND TOP AND BOTTOM CHANNELS FROM 0.053" THICK GALVANNEALED STEEL SHEET.
 - FABRICATE THE STEEL-STIFFENED CORE USING VERTICAL STIFFENERS THAT EXTEND FULL DOOR HEIGHT. INSTALL STIFFENERS NOT MORE THAN 6" APART AND SPOT WELD TO BOTH FACE SHEETS NO MORE THAN 5" ON CENTER. FILL SPACES BETWEEN STIFFENERS WITH GLASS-FIBER INSULATION OR MINERAL-FIBER INSULATION.
 - TOP AND BOTTOM CHANNELS MUST BE CONTINUOUS AND SPOT WELDED TO BOTH FACE SHEETS. THE TOP CHANNEL MUST BE FLUSH AND THE BOTTOM CHANNEL MUST BE INVERTED.
 - INCLUDE MOISTURE VENTS IN THE BOTTOM CHANNEL.

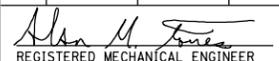
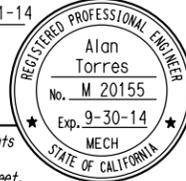


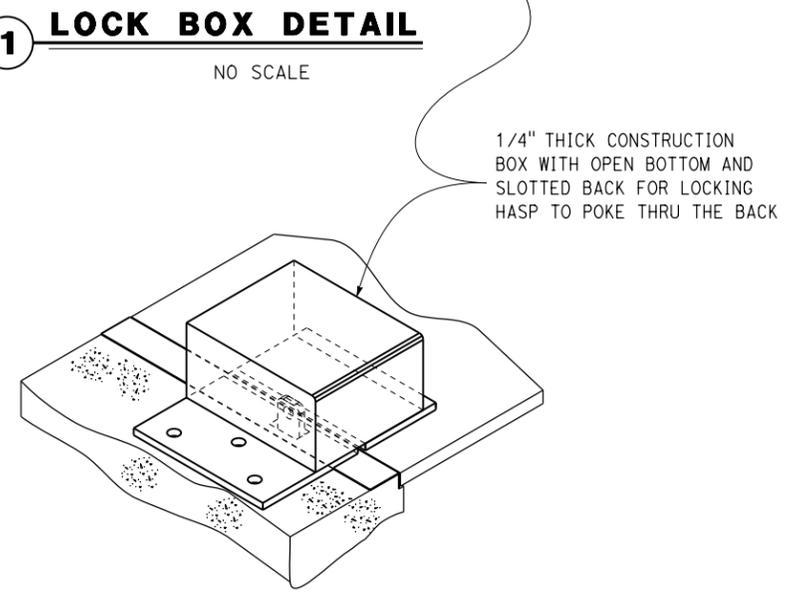
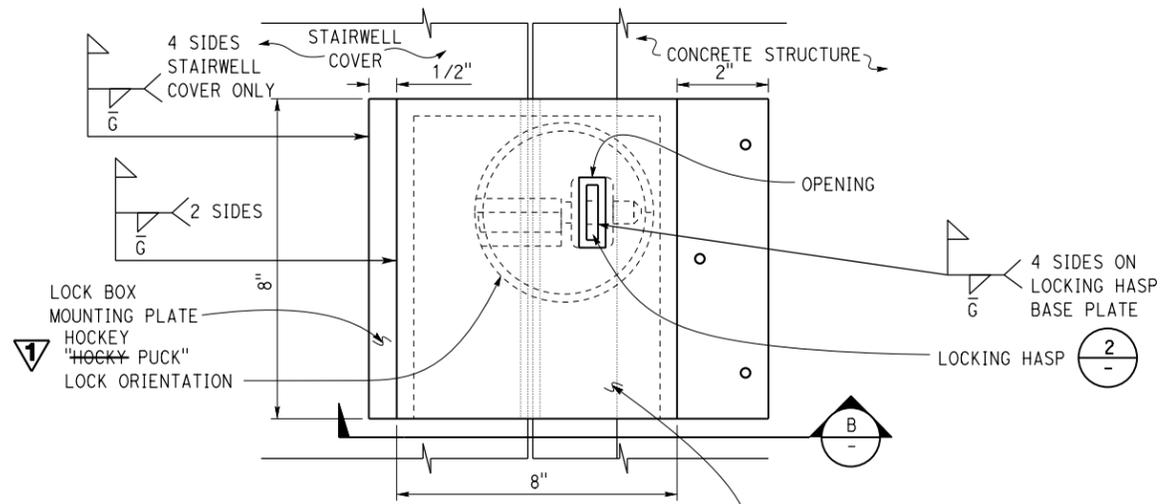
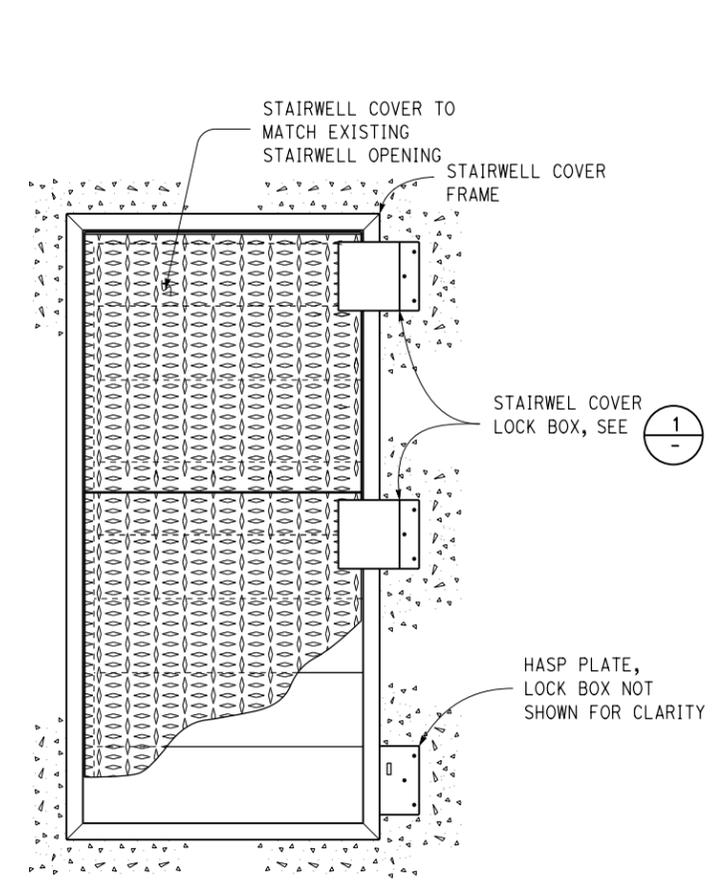
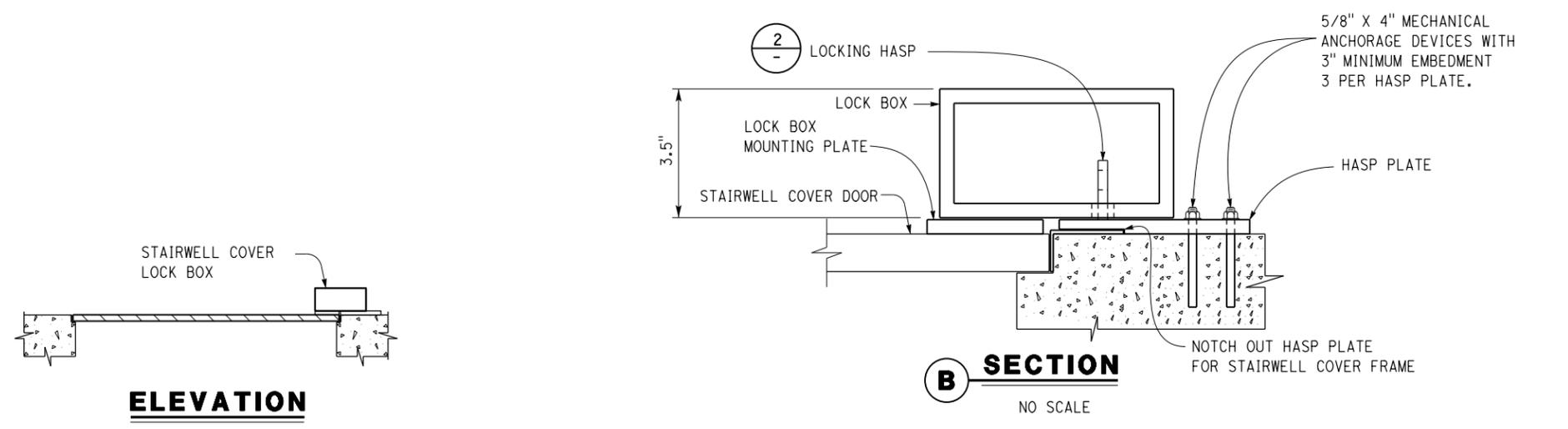
PLAN SIDE VIEW

2 LOCKING HASP
NO SCALE
Dimensions shown in inches

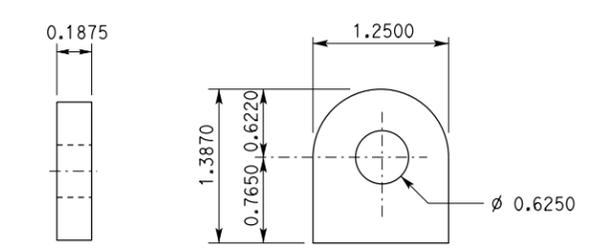
1 REPLACED PER ADDENDUM No.1 DATED SEPTEMBER 26, 2014

DESIGN BY	KOU XIONG	CHECKED	ALAN TORRES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	VARIOUS	BAKERSFIELD AREA PP DOOR UPGRADE PUMPHOUSE DOOR UPGRADE	SHEET	M-1
DETAILS BY	KOU XIONG	CHECKED	ALAN TORRES			POST MILE	VARIOUS			
QUANTITIES BY	KOU XIONG	CHECKED	ALAN TORRES			UNIT: 3618 CONTRACT No.: 005801 PROJECT NUMBER & PHASE: 06130003051	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	58, 99	Var	57	57
 REGISTERED MECHANICAL ENGINEER			06-11-14 DATE		
6-23-14 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>					



- NOTES:**
- The stairwell cover door must be "retrofit" type single leaf door sized to match existing stairwell opening. Door leaf must be 3/16" thick steel diamond plate reinforced for a 300 p.s.f. live load.
 - The steel angle frame must have a horizontal flange with 9/16" diameter holes for bolting to the existing floor and an integral door seat on all four sides. The horizontal flange will have a beveled edge that slopes to the floor surface.
 - The stairwell cover door must be equipped with a flush lifting handle that does not protrude above the cover, and a 316 stainless steel hold open arm with red vinyl grip that automatically keeps the cover in its upright, open position.
 - The door must have 316 stainless steel hinges and 316 stainless steel tamper resistant bolts/locknuts. A covered hasp for a hidden shackle pad lock must be supplied for security.
 - The stairwell cover door must be equipped with stainless steel spring assisted lifting mechanism properly sized for the door weight and size.



2 LOCKING HASP
NO SCALE
Dimensions shown in inches

1 REPLACED PER ADDENDUM No.1 DATED SEPTEMBER 26, 2014

DESIGN BY KOU XIONG	CHECKED ALAN TORRES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. VARIOUS	BAKERSFIELD AREA PP DOOR UPGRADE STAIRWELL COVER UPGRADE	SHEET M-2	
DETAILS BY KOU XIONG	CHECKED ALAN TORRES			POST MILE VARIOUS		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY KOU XIONG	CHECKED ALAN TORRES			UNIT: 3618 CONTRACT No.: 005801 PROJECT NUMBER & PHASE: 06130003051		DISREGARD PRINTS BEARING EARLIER REVISION DATES	12-23-13 6-11-14
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	P:\dist 06\0613000305 var pp wire theft\ccos\W 2.dan				