





DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	802	821

  
 REGISTERED CIVIL ENGINEER DATE 11-7-11  
 2-21-12  
 PLANS APPROVAL DATE



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 To get to the web site go to <http://www.dot.ca.gov>

Note  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**A DESIGN NOTES**

1. Design: The building work on this project has been designed to conform to the 2010 California Building Code.(2009 IBC2)

a. Loads :  
 Live Loads : 4790 Pa  
 Wind Speed : 136 km/h , Exposure D

Seismic: Occupancy Category = I  
 Importance Factor Site Soil = D (Assumed)  
 Site Soil Class = D (Assumed)  
 $S_s = 1.5$   $S_{Ds} = 1.0$   
 $S_1 = 0.6$   $S_{D1} = 0.6$

Seismic Design Category = D  
 $C_s = 0.25$

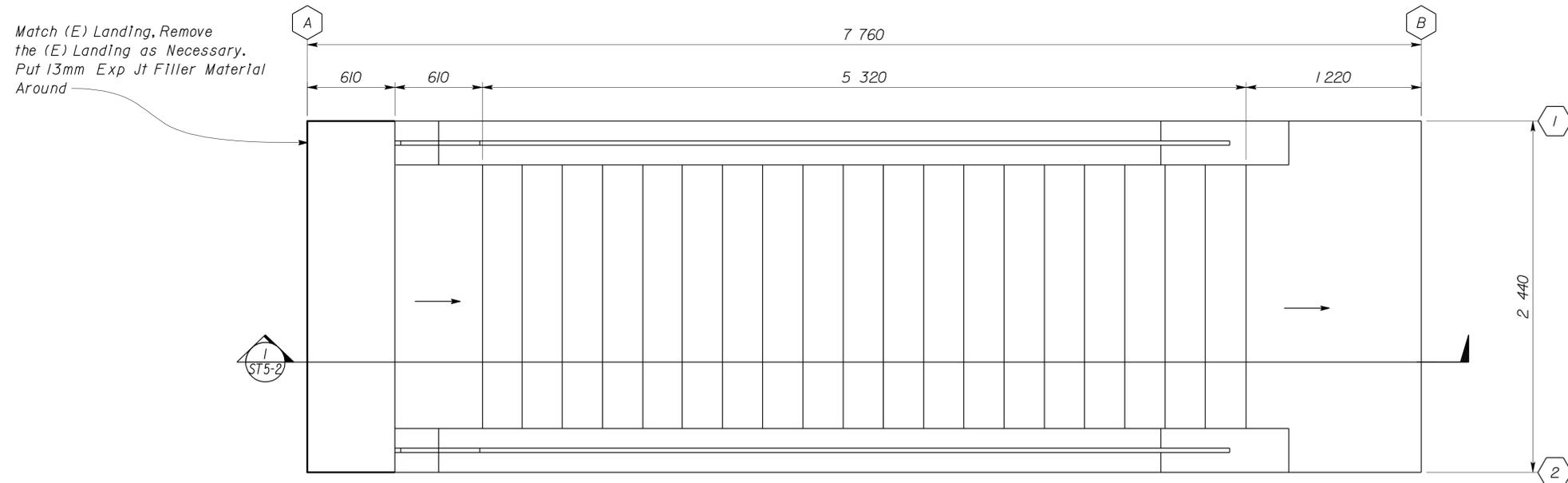
b. Reinforced Concrete ( Ultimate Strength Design ) :  
 $f'_c = 21$  MPa  
 $f_y = 420$  MPa (Epoxy Coated Rebar)

c. Miscellaneous metal (Working stress Design)  
 $f_y = 352$  MPa, UON

d. Foundation :  
 Allowable Soil Pressure ( DL + LL ) : 71,900 Pa (assumed)

2. Stairs:

- a. For typical stair details, see Sheet ST5-3.
- b. Landings slopes shall be minimum 1% and maximum of 8%.
- c. Landing slabs shall be 150 mm thick reinforced concrete w/ #16 @ 450 OC each way, Typ.
- d. Handrail and Gutter Locations and Detail, See Arch.



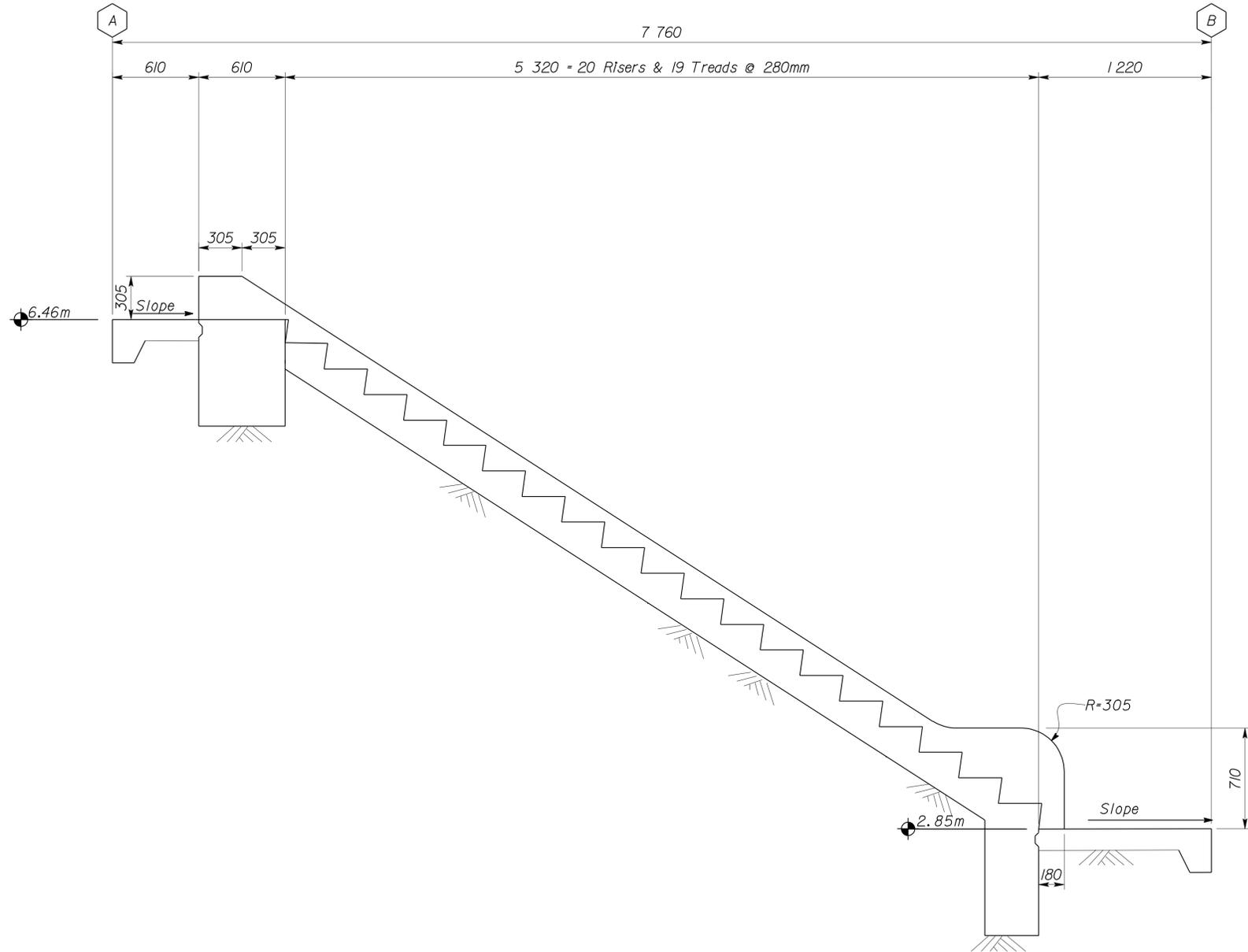
**1 STAIR FLOOR PLAN**  
 Scale 1:20

DOES SD metric Rev. 9/02	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES FLOOR PLAN DETAIL	SHEET OF <b>ST5-1</b>
					KM POST 12.8		
			CU 04 251 EA 0120T1	DISREGARD PRINTS BEARING EARLIER REVISION DATES			

25-FEB-2012 12:34 s15\_01.dgn



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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2-21-12 PLANS APPROVAL DATE					
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Notes:  
 A. Handrail location, See Arch  
 B. Typical Stair section, See Arch sheet

**I** STAIR SECTION DETAIL  
 Scale 1:20

DESIGN	BY Thomas Tong	CHECKED Edgardo Isidro
DETAILS	BY Andrew A. Lovato	CHECKED Thomas Tong
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	34-004
KM POST	12.8

YERBA BUENA ISLAND TRANSITION STRUCTURES  
 SECTIONS DETAILS

SHEET OF  
**ST5-2**

DOES SD metric Rev. 9/02

SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS



CU 04 251  
 EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	
12-22-09	12-11-11
11-07-11	

SHEET OF

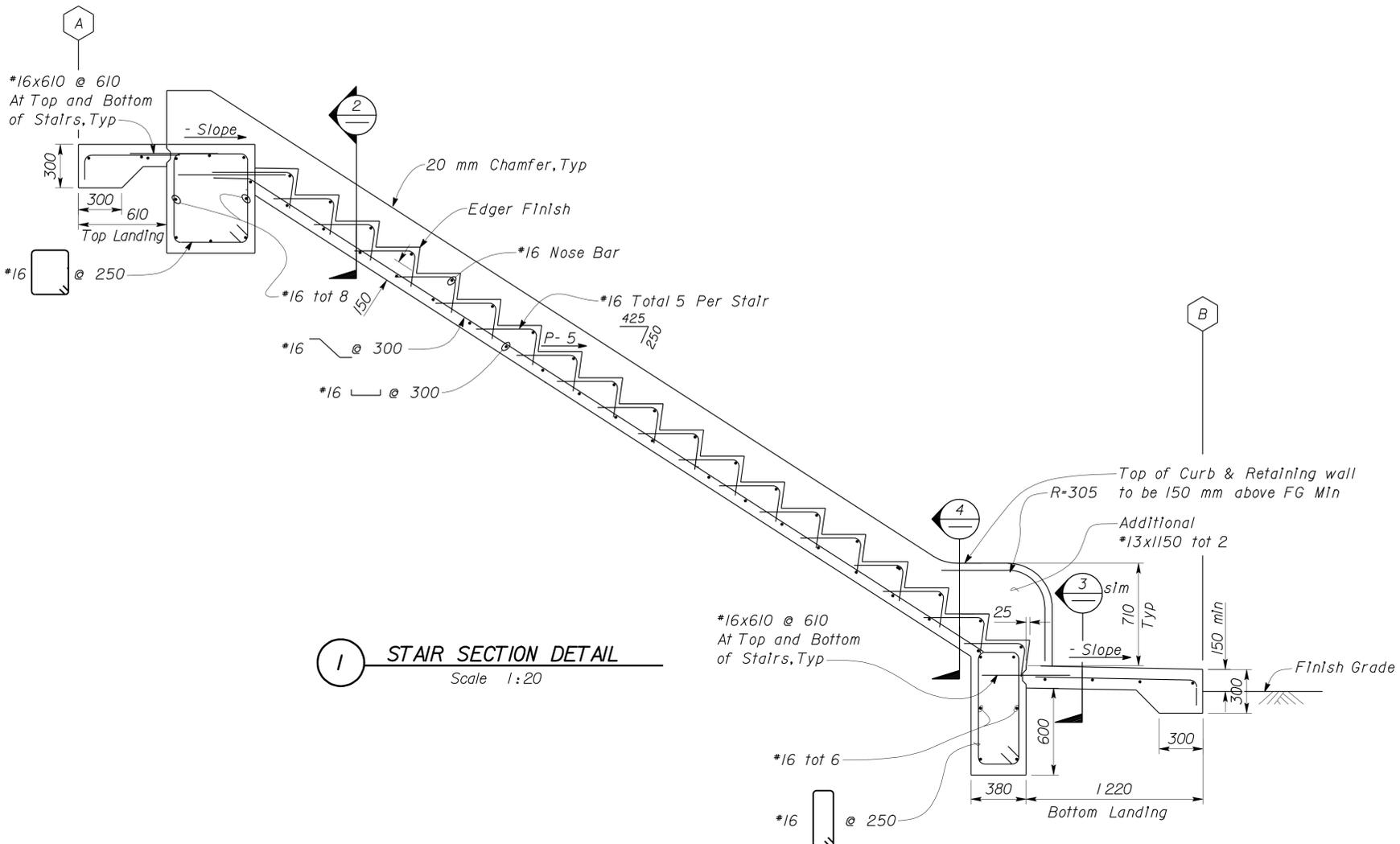


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	804	821

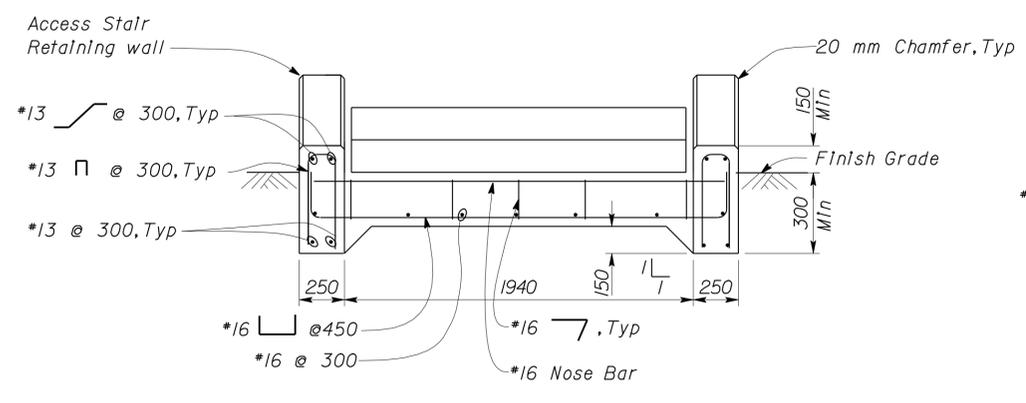
  
 REGISTERED CIVIL ENGINEER DATE 11-7-11  
 C. Tong  
 No. 64543  
 Exp. 6-30-13  
 CIVIL  
 STATE OF CALIFORNIA

2-21-12  
 PLANS APPROVAL DATE  
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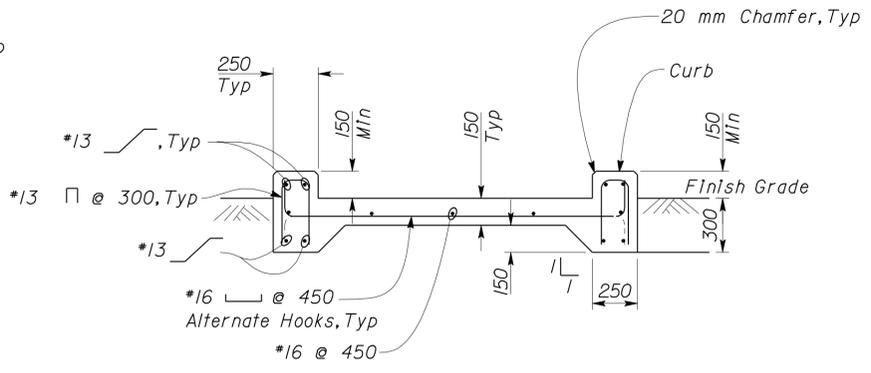
**Note**  
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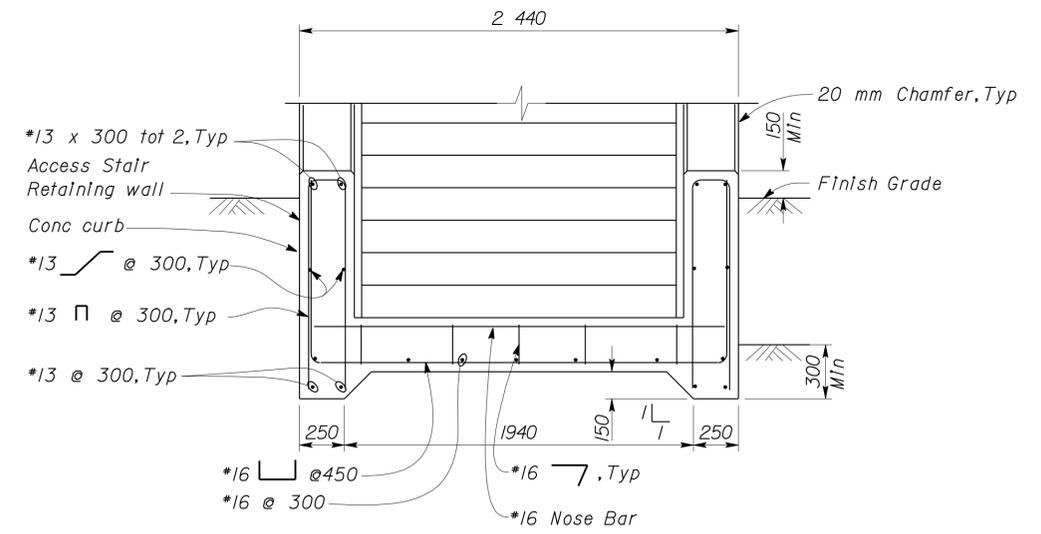
**1 STAIR SECTION DETAIL**  
Scale 1:20



Note: Gutter Detail, See Arch  
**2 STAIR SECTION**  
Scale 1:20



**3 LANDING SECTION**  
Scale 1:20



Note: Gutter Detail, See Arch  
**4 STAIR SECTION**  
Scale 1:20

DESIGN	BY Thomas Tong	CHECKED Edgardo Isidro
DETAILS	BY Andrew A. Lovato	CHECKED Thomas Tong
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	34-004
KM POST	12.8

USCG STAIRS  
**YERBA BUENA ISLAND TRANSITION STRUCTURES**  
 SECTIONS DETAILS

SHEET **ST5-3** OF



## PLUMBING

— — — — —	Cold Water
— D — — —	Equipment Drain
— RD — — —	Roof Drain
— OD — — —	Overflow Drain
— — — — —	Hot Water
— S — — —	Sewer Line
— — — — —	Sanitary Sewer (above grade)
— — — — —	Sanitary Sewer (below grade)
— — — — —	Sanitary Sewer Vent

## PIPE FITTINGS AND VALVES

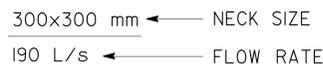
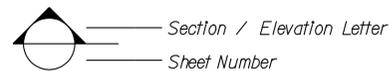
	Cap, Threaded
	Elbow, Turned Down
	Elbow, Turned Up
	Reducer, Concentric
	Pressure Gauge (with gage cock and Snubber)
	Strainer
	Union
	Union, Insulating
	Valve, Ball
	Valve, Check
	Valve, Gas
	Valve, Gate
	Valve, Safety Relief
	Valve, Faucet Assembly
	Valve, Pressure/Temperature Relief
	Water Hammer Arrestor

## HEATING, VENTILATING AND AIR CONDITIONING

— EA — — —	Exhaust Air
⊙	Exhaust Fan
⊙ TS	Time Switch

## MISCELLANEOUS

L	Angle
℄	Centerline
∅	Diameter



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: FRANCIS SOLICH  
Approval date: 11-09-11



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	805	821

Solomon C. Wong 11/02/11  
REGISTERED ENGINEER-MECHANICAL DATE  
2-21-12  
PLANS APPROVAL DATE

REG. PROFESSIONAL ENGINEER  
No. M27626  
Exp. 06-30-13  
MECH  
STATE OF CALIFORNIA

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## MECHANICAL ABBREVIATIONS:

AAV	Air Admittance Valve	H	Height	RCP	Reinforced Concrete Pipe
ABS	Acrylonitrile Butadiene Styrene	HB	Hose Bibb	RD	Roof Drain
BH	Box Hydrant	HF	Hose Faucet	REQ	Required
°C	Celsius Temperature	HW	Hot Water	RV	Relief Valve
Cap.	Capacity	HZ	Hertz	S	Switch
CI	Cast-Iron	ID	Inside Diameter	SF	Fan, Switch
CO	Cleanout	IE	Invert Elevation	SCH	Schedule
COTF	Cleanout Through Floor	IPS	International Pipe Standard	SP	Static Pressure
COTG	Cleanout Through Grade	KW	Kilowatt	SS	Sanitary Sewer
COTW	Cleanout To Wall	LAV	Lavatory	STA	Station
CV	Check Valve	L/s	Liters per Second	STD	Standard
CW	Cold Water	m	Meter	TCV	Temperature Control Valve
D	Depth	MAX	Maximum	TSPV	Trap Seal Primer Valve
DI	Drain Inlet	MIN	Minimum	TPRV	Temp., Pressure, Relief Valve
DIa	Diameter	mm	millimeter	TS	Time Switch
(E)	Existing	NIC	Not In Contract	Typ.	Typical
EA	Exhaust Air	NO	Number	V	Vent
EF	Exhaust Fan	NPS	Nominal Pipe Size	VAC	Voltage, Alternating Current
EL	Elevation	NPT	National Pipe Thread	VB	Valve Box
Elect.	Electrical	NST	National Standard Thread	VR	Vent Riser
EWC	Electric Water Cooler	OC	On Center	VTR	Vent Thru Roof
EWB	Electric Water Heater	OD	Outside Diameter	W	Width
FC	Flexible Connection	OG	Original Ground	W/	With
FD	Floor Drain	PCC	Portland Cement Concrete	W/O	Without
FE	Fire Extinguisher	PH	Phase	WC	Water Closet
FG	Finish Grade	PRV	Pressure Reducing Valve	WH	Water Heater
FL	Flow Line	PSI	Pounds Per Square Inch	W.H.	Wall Hydrant
GALV	Galvanized	PVC	Polyvinyl Chloride	WHA	Water Hammer Arrestor
GLV	Globe Valve			WS	Wash Sink
GSP	Galvanized Steel Pipe				
GV	Gate Valve				

THIS SHEET IS ACCURATE FOR MECHANICAL WORK ONLY

ALL DIMENSIONS SHOWN IN MILLIMETERS, EXCEPT AS NOTED

DESIGN	BY Solomon Wong	CHECKED Jack Wheeler
DETAILS	BY J.R. Stangl	CHECKED Jack Wheeler
QUANTITIES	BY Solomon Wong	CHECKED Jack Wheeler

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	34-004
KM POST	12.8

PERMANENT GUARD BOOTH  
YERBA BUENA ISLAND  
TRANSITION STRUCTURES  
ABBREVIATIONS AND LEGEND

SHEET M3-0



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	806	821

<i>Solomon C. Wong</i>		11/02/11
REGISTERED ENGINEER-MECHANICAL	DATE	
2-21-12		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER
Solomon Wong
No. M27626
Exp. 06-30-13
MECH
STATE OF CALIFORNIA

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**Notes:**

1. For connection of water and sewer lines to Guard Booth from (E) service lines see Roadway Plans.
2. Contractor shall field verify all existing piping and utility connections before ordering and fabricating any materials.

U.S.C.G. Guard Booth  
See Sheet M3-2

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: *[Signature]*  
FRANCIS SOLICH  
Approval date: 11-09-11



**SITE PLAN**

NO SCALE

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 DESIGN SUPERVISOR  DESIGN ENGINEER	DESIGN	BY <i>Solomon Wong</i>	CHECKED <i>Jack Wheeler</i>
	DETAILS	BY <i>J.R. Stangl</i>	CHECKED <i>Jack Wheeler</i>
	QUANTITIES	BY <i>Solomon Wong</i>	CHECKED <i>Jack Wheeler</i>

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

BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES SITE PLAN	SHEET <b>M3-1</b>
KM POST 12.8		

DOS ELEC (10/98) FILE => m3\_1.dgn DATE PLOTTED => 25-FEB-2012 TIME PLOTTED => 12:34

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

UNIT PROJECT NUMBER & PHASE 3176 04000000271

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	10/28/09 10/28/09 3/10/11 4/5/11 11/02/11		

USERNAME => s124496 DATE PLOTTED => 25-FEB-2012 TIME PLOTTED => 12:34

### CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 5 of 5) MECH -1C

PROJECT NAME: YERBA BUENA ISLAND TRANSITION STRUCTURES DATE: OCTOBER 27, 2011

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

I Certify That This Certificate of Compliance Documentation is Accurate and Complete.

Name: Solomon Wong Signature: *Solomon C. Wong*

Company: Department of Transportation (CALTRANS) Date: 10/28/09

Address: 180130th Street If Applicable CEA# CEPE#

City/State/Zip: Sacramento, CA 95816 Phone: (916) 227-8330

**PRINCIPAL MECHANICAL DESIGNER'S DECLARATION STATEMENT**

- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the mechanical design.
- This Certificate of Compliance identifies the mechanical features and performance specifications required for compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: Jack Wheeler Signature: *Jack Wheeler*

Company: Department of Transportation (CALTRANS) Date: OCTOBER 27, 2011

Address: 180130th Street License# M21648

City/State/Zip: Sacramento, CA 95816 Phone: (916) 227-8352

**MANDATORY MEASURES**  
Indicate location on building plans of Note Block for Manatory Measures: On File

**MECHANICAL COMPLIANCE FORMS & WORKSHEETS (Check box if worksheet is included)**

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2008 Nonresidential Manual Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

<input checked="" type="checkbox"/>	MECH-1-C	Certificate of Compliance. Required on plans for all submittals.
<input type="checkbox"/>	MECH-2-C	Mechanical Equipment Summary is required for all submittals.
<input type="checkbox"/>	MECH-3-C	Mechanical Ventilation and Reheat is required for all submittals with mechanical ventilation.
<input type="checkbox"/>	MECH-4-C	Fan Power Consumption is required for all prescriptive submittals.

2008 Nonresidential Compliance Forms April 2010

### CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 4 of 4) ENV -1C

PROJECT NAME: YERBA BUENA ISLAND TRANSITION STRUCTURES DATE: OCTOBER 27, 2011

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

I Certify That This Certificate of Compliance Documentation is Accurate and Complete.

Name: Solomon Wong Signature: *Solomon C. Wong*

Company: Department of Transportation, (CALTRANS) Date: 10/28/09

Address: 180130TH Street If Applicable CEA# CEPE#

City/State/Zip: Sacramento, CA 95816 Phone: (916) 227-8330

**PRINCIPAL MECHANICAL DESIGNER'S DECLARATION STATEMENT**

- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the design.
- This Certificate of Compliance identifies the envelope features and performance specifications required for compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: Quincy Wong Signature: *Quincy Wong*

Company: Department of Transportation (CALTRANS) Date: OCTOBER 27, 2011

Address: 180130th Street License# C-18849

City/State/Zip: Sacramento, CA 95816 Phone: (916) 227-8228

**ENVELOPE MANDATORY MEASURES**  
Indicate location on building plans of Mandatory Envelope Measures Note Block: On File

**INSTRUCTIONS TO APPLICANT ENVELOPE COMPLIANCE & WORKSHEETS (Check box if worksheet is included)**

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Compliance Manual.

<input checked="" type="checkbox"/>	ENV-1-C	Certificate of Compliance and Field Inspections Energy Checklist required on plans for all submittals.
<input type="checkbox"/>	ENV-2-C	Use with the Envelope Component Approach. Optional on Plans.
<input type="checkbox"/>	ENV-3-C	Use with the Overall Envelope TDV Energy Approach. Optional on plans.
<input type="checkbox"/>	ENV-4-C	Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans.

2008 Nonresidential Compliance Forms April 2010

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04	SF	80	12.6/13.9	807	821

*Solomon C. Wong* 11/02/11  
REGISTERED ENGINEER-MECHANICAL DATE  
2-21-12  
PLANS APPROVAL DATE



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Reviewed by: *Francis Solich*  
Approval date: 11-09-11

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DESIGN	BY <i>Solomon Wong</i>	CHECKED <i>Jack Wheeler</i>
DETAILS	BY <i>J.R. Stangl</i>	CHECKED <i>Jack Wheeler</i>
QUANTITIES	BY <i>Solomon Wong</i>	CHECKED <i>Jack Wheeler</i>

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	34-004
KM POST	12.8

YERBA BUENA ISLAND TRANSITION STRUCTURES  
TITLE 24

SHEET M3-1.1

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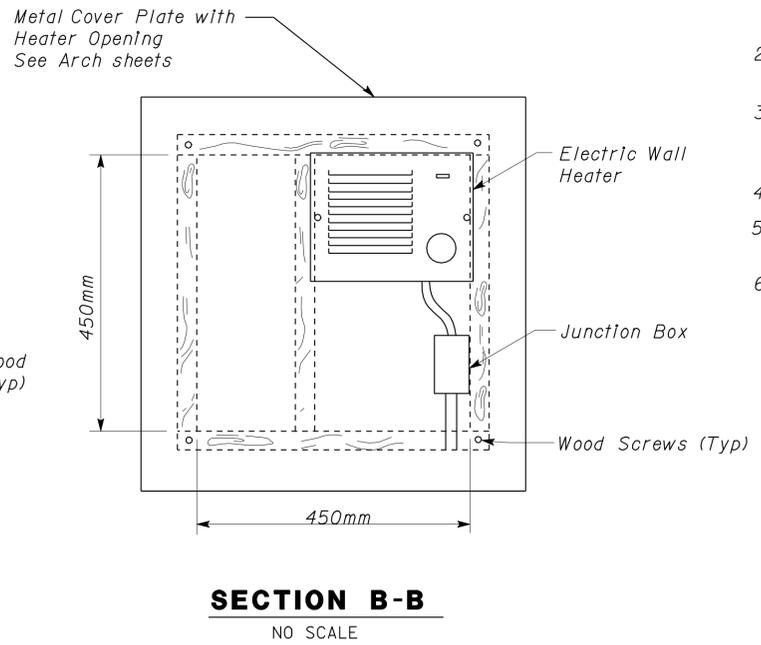
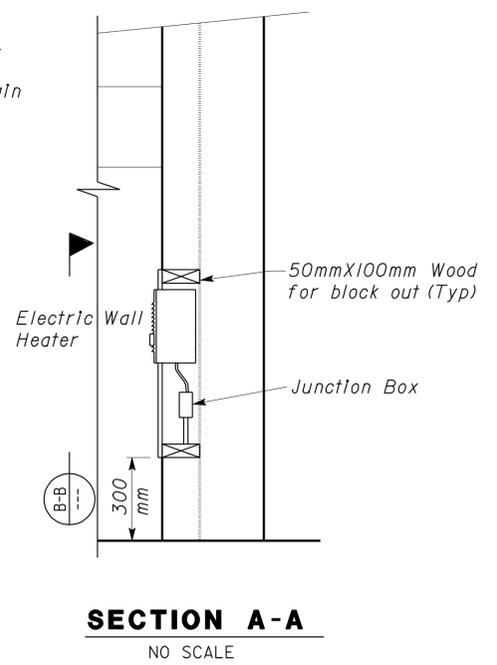
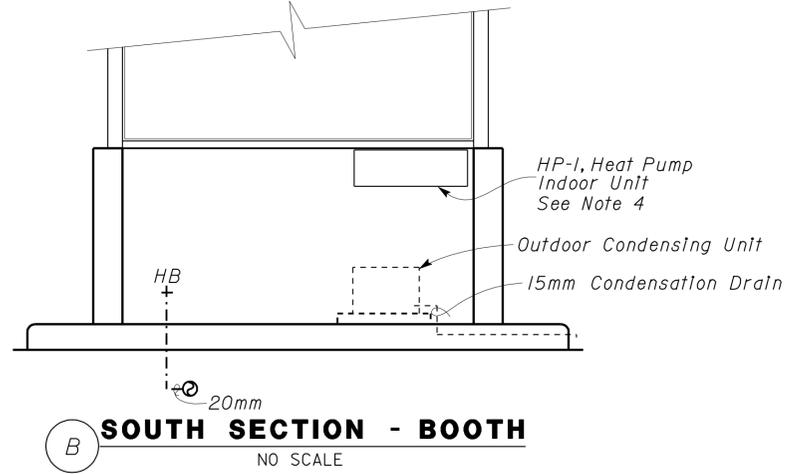
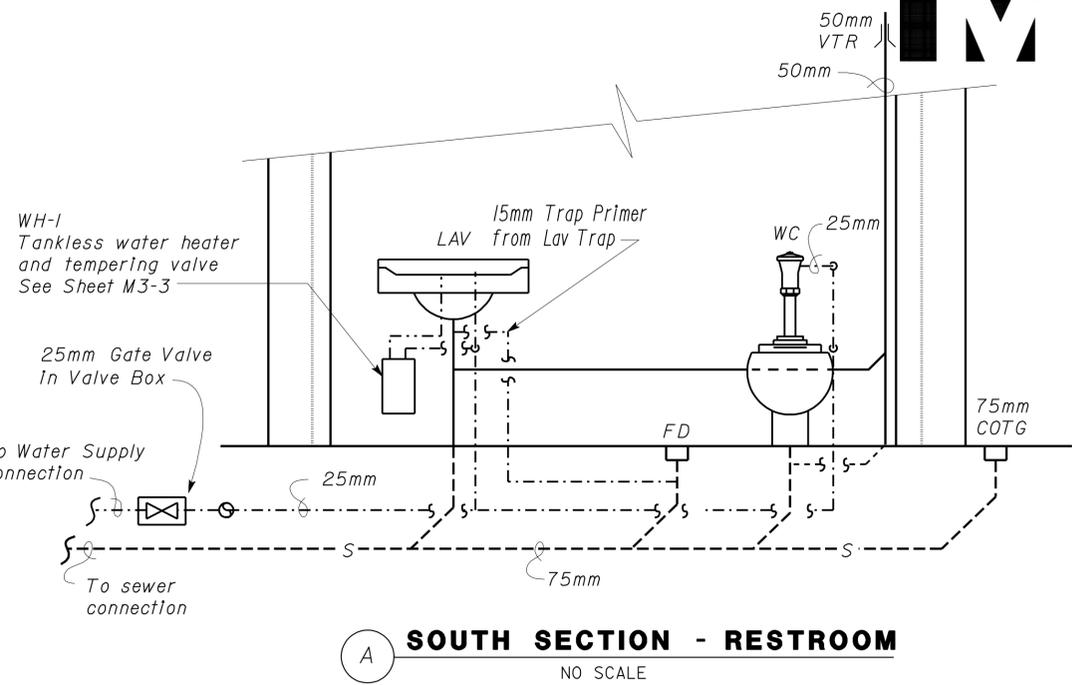
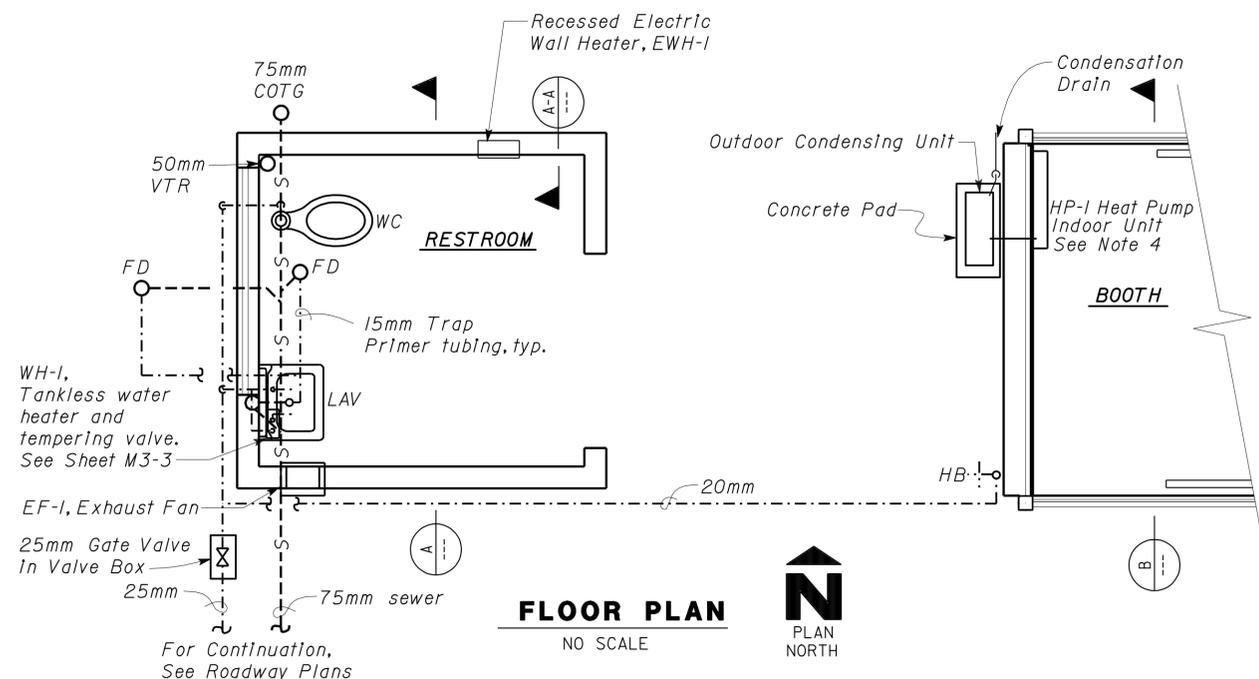
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**Caltrans**  
**Metric**

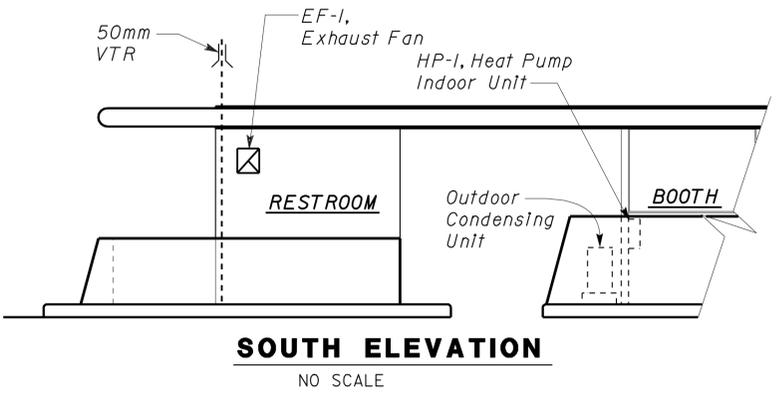
Solomon C. Wong 11/04/11  
REGISTERED ENGINEER-MECHANICAL DATE  
2-21-12  
PLANS APPROVAL DATE

REG. PROFESSIONAL ENGINEER  
Solomon Wong  
No. M27626  
Exp. 06-30-13  
MECH  
STATE OF CALIFORNIA

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- NOTES:**
- The heat pump unit shall be rated at 16 amp, 208 VAC, with a minimum cooling output of 3.33KW, a minimum heating output of 2.78KW, and a minimum SEER of 16.
  - The heat pump unit shall have a minimum of 100 mm clearance on all four sides.
  - The exhaust fan shall be 115 VAC with a rating of 37.7L/s. minimum. It shall be a through-the-wall unit with a backdraft damper and downward exhaust hood.
  - See Arch. sheets for location.
  - Recessed wall heater to be 110 volt, 1500 watts fan and thermostat.
  - Contractor shall field verify all existing piping and utility connections before ordering and fabricating any materials.



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Reviewed by: FRANCIS SOLICH  
Approval date: 11-09-11

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DESIGN	BY Solomon Wong	CHECKED Jack Wheeler	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES MECHANICAL PLAN	SHEET	M3-2
DETAILS	BY J.R. Stangl	CHECKED Jack Wheeler			KM POST	12.8		PERMANENT GUARD BOOTH	
QUANTITIES	BY Solomon Wong	CHECKED Jack Wheeler			UNIT PROJECT NUMBER & PHASE	3176 04000000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
FILE => m3_2.dgn DATE PLOTTED => 25-FEB-2012			ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		0 10 20 30 40 50 60 70 80 90 100		10/20/05 11/18/05 02/28/06 07/26/06 12/14/07 02/28/08 3/18/11 7/8/11 11/04/11		

USERNAME => s124496 DATE PLOTTED => 25-FEB-2012 TIME PLOTTED => 12:35



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED ENGINEER-MECHANICAL  
 Solomon C. Wong  
 DATE 11/04/11  
 2-21-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Solomon Wong  
 No. M27626  
 Exp. 06-30-13  
 MECH  
 STATE OF CALIFORNIA

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Fixture	Drainage Rough-in mm	Trap mm	Vent mm
Lavatory	50	32	--
Water Closet	75	--	50
Floor Drain	50	50	--

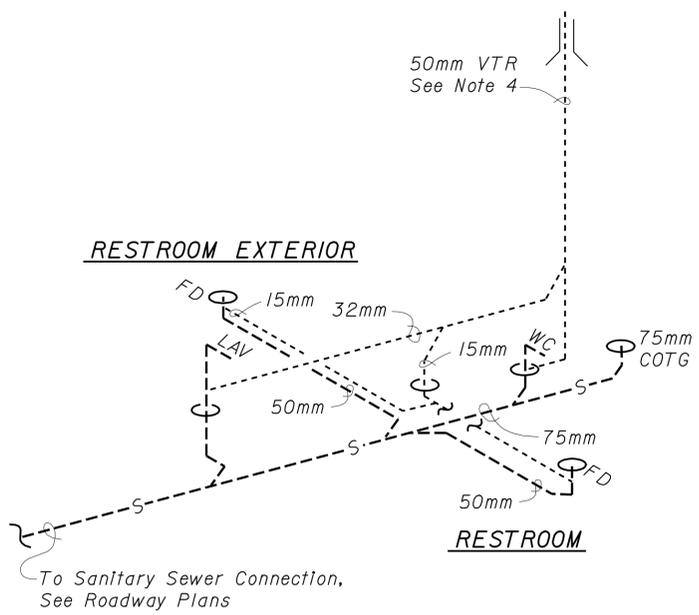
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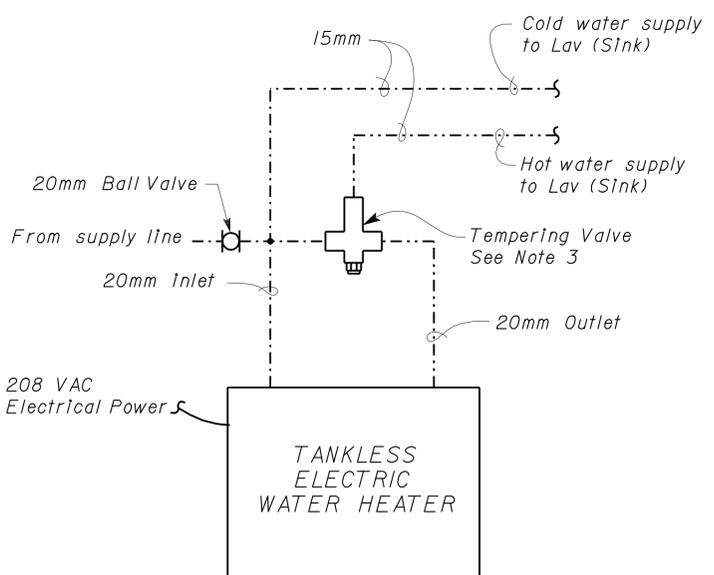
Reviewed by: FRANCIS SOLTICH  
Approval date: 11-09-11

Fixture	Minimum Connection	
	Cold Water mm	Hot Water mm
Lavatory	15	15
Water Closet	25	--
Tankless Water Heater	20	20
Hose Bibb	20	--
Trap Primer	15	--

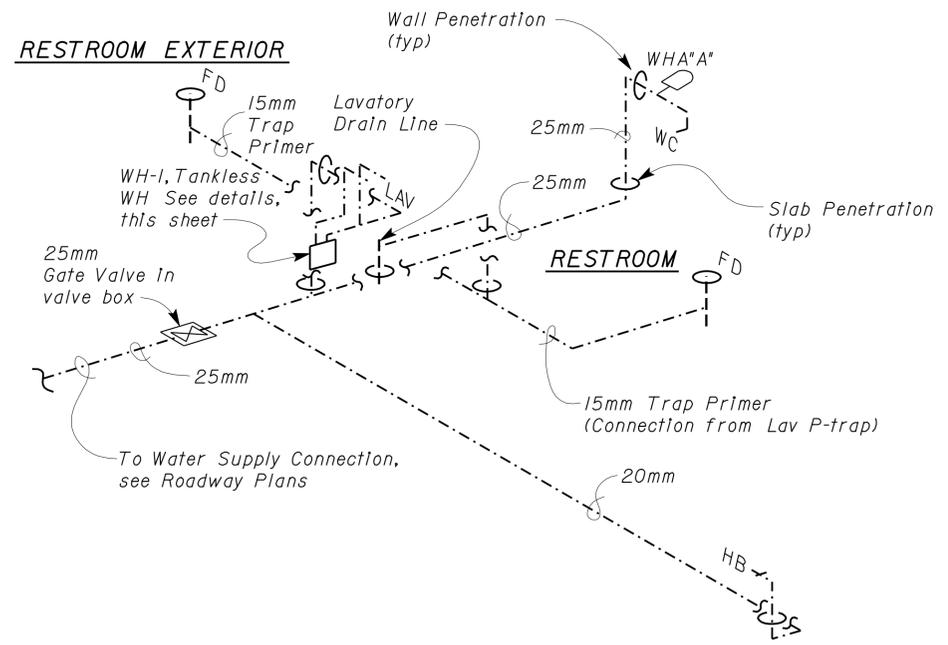
- Notes:
- The tankless water heater does not require a temperature/pressure relief valve. If Local codes require its use, install a unit and drain via a funnel drain using a water saver type primer.
  - Tankless water heater shall be 208V / 15 Amp Max 1Ph-60Hz capable of providing 1.9 liters/minute at a temp rise of 31 C.
  - Water supply to the lavatory shall be routed through a tempering valve which shall be set to 31 C.
  - Locate VTR adjacent to exterior wall and outside of window area. Secure pipe to wall.



**ISOMETRIC SEWER DETAILS**  
NO SCALE



**TANKLESS WATER HEATER SCHEMETIC**  
NO SCALE



**ISOMETRIC WATER DETAILS**  
NO SCALE

THIS SHEET IS ACCURATE FOR MECHANICAL WORK ONLY

ALL DIMENSIONS SHOWN IN MILLIMETERS, EXCEPT AS NOTED

DESIGN	BY Solomon Wong	CHECKED Jack Wheeler	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 34-004	<b>YERBA BUENA ISLAND          TRANSITION STRUCTURES</b> MECHANICAL DETAILS	SHEET	
DETAILS	BY J.R. Stangl	CHECKED Jack Wheeler		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	KM POST 12.8		PERMANENT GUARD BOOTH	<b>M3-3</b>
QUANTITIES	BY Solomon Wong	CHECKED Jack Wheeler		PROJECT NUMBER & PHASE 3176 0400000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DOS ELEC (10/98) FILE => m3\_3.dgn DATE PLOTTED => 25-FEB-2012 TIME PLOTTED => 12:35 ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

REVISION DATES (PRELIMINARY STAGE ONLY): 10/20/05, 11/18/05, 02/28/06, 07/26/06, 12/18/07, 02/28/08, 7/5/11, 11/04/11

FILE => m3\_3.dgn EA 0120T1

USERNAME => s124496 DATE PLOTTED => 25-FEB-2012 TIME PLOTTED => 12:35

GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION
	SURFACE METAL HALIDE
	RECESSED FLUORESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE
	BLANK OUTLET
	JUNCTION BOX
	PENDANT MOUNTED CYLINDRICAL INCANDESCENT OR FLUORESCENT FIXTURE
	WALL MOUNTED CYLINDRICAL INCANDESCENT OR FLUORESCENT FIXTURE
	WALL MOUNTED METAL HALIDE FIXTURE
	SURFACE MOUNTED METAL HALIDE FIXTURE
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE
	RECESSED INDIVIDUAL FLUORESCENT FIXTURE
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT FIXTURES

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), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE.

EXAMPLE: (4) F 2 - 2 x 32  
  
 32 WATT LAMPS  
 2 LAMPS  
 DESIGN TYPE  
 FLUORESCENT  
 NUMBER OF FIXTURES

SYMBOL	DESCRIPTION
	MOTION SENSOR WALL SWITCH
	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
	TIMER SWITCH
	SWITCH AND SINGLE RECEPTACLE
	SWITCH AND DUPLEX RECEPTACLE
	HAND DRYER NOZZLE
	HAND DRYER
	FIRE ALARM DEVICE
	PUBLIC TELEPHONE OUTLET
	PRIVATE TELEPHONE OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	PUSHBUTTON
	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	COMBINATION BELL-BUZZER
	THERMOSTAT
	PRESSURE SWITCH
	CONTROL RELAY
	FLOW SWITCH
	PHOTOELECTRIC CELL
	RADIO OUTLET
	OCCUPANCY SENSOR
	WATER HEATER
	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 INDICATES NUMBER OF #12 AWG. NO CROSS-LINES INDICATES 2#12 AWG WITH I#12G UNLESS OTHERWISE NOTED. CROSS-LINE INCLUDES I#12G. ALL CONDUIT 16 mm UNLESS OTHERWISE NOTED.
	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT.
	SURFACE METAL RACEWAY
	CONDUCTOR INFO (PER CONDUIT) CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
	CONDUIT, METALLIC 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
	AREA LUMINAIRE AND No. 3 1/2 PULL BOX
	POLE-ARM LUMINAIRE

SYMBOL	DESCRIPTION
	HEAT DETECTOR
	SMOKE DETECTOR
	GLASS BREAK DISCRIMINATOR
	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
	MAGNETIC CONTACT SWITCH-VEHICLE
	KEYPAD FOR ALARM SYSTEM
	PULL STATION
	AUDIO/VISUAL ALARM DEVICE
	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
	PULL BOX
	PULL BOX (TRAFFIC RATED)
	COMBINATION LIGHT, HEAT LAMP 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
	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
	EXISTING CONDUIT AND CONDUCTORS-REMOVE
	EXISTING SWITCH-TO REMAIN
	EXISTING SWITCH-REMOVE
	EXISTING JUNCTION BOX-TO REMAIN
	EXISTING JUNCTION BOX-REMOVE
	EXISTING
	EXISTING AREA LUMINAIRE

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

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



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	810	821

James R. Lacy  
 REGISTERED ENGINEER-ELECTRICAL  
 DATE 11-08-11  
 No. 13770  
 Exp. 9-30-13  
 ELEC  
 STATE OF CALIFORNIA

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**ABBREVIATIONS**

A	ALARM RELAY
A/C	AIR CONDITIONING UNIT
ATS	AUTOMATIC TRANSFER SWITCH
AL	ALARM LIGHT
BTS	BYPASS TIMER SWITCH
BD	BUILDING DISCONNECT
BRK	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CCTV	CLOSED CIRCUIT TELEVISION
ELCC	EXTERIOR LIGHTING CONTROL CABINET
DO	DIGITAL OUTPUT
DP	DUPLEX PLUG RECEPTACLE
DS	DISCONNECT SWITCH
EF	EXHAUST FAN
F	FUSE
FL	FAILURE LIGHT
FLA	FLASHER
FLEX	FLEXIBLE CONDUIT
FO cable	12 FIBER MULTIMODE 62.5/125 FIBER OPTIC CABLE
GD	GENERATOR DISCONNECT
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
GEC	GROUNDING ELECTRODE CONDUCTOR
HAR	HIGHWAY ADVISORY RADIO
HP	HEAT PUMP
JB	JUNCTION BOX
L	LIGHT
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LD	LIGHT DISCONNECT
LL	LIQUID LEVEL RELAY
LED	LIGHT EMITTING DIODE
LP	LIGHT PANEL
LS	LIGHT SWITCH
LT	LIGHT TRANSFORMER
LTO	LIGHT TRANSFORMER OVERLOAD
MB	MAIN BREAKER
MC	METALLIC CONDUIT, UNDERGROUND
MCP	MOTOR CIRCUIT PROTECTOR
MCC	MOTOR CONTROL CENTER
MH	MOUNTING HEIGHT
MSB	MAIN SWITCHBOARD
MT	EMPTY CONDUIT
NB	NEUTRAL BUS
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OLS	OUTSIDE LIGHTING CONTROL STATION
OL	OVERLOAD
PB	PULL BOX
PB	PUSHBUTTON
PEC	PHOTOELECTRIC CELL
PL	PILOT LIGHT
PG & E	PACIFIC GAS & ELECTRIC
PTS	POWER TRANSFER SWITCH
PTTB	PUBLIC TELEPHONE TERMINAL BOARD
PTZ	PAN TILT ZOOM
PVC	POLYVINYL CHLORIDE
RES	RESISTOR
S	STARTER COIL
SD	SERVICE DISCONNECT
SFR	SEAL FAILURE RELAY
SPR	STANDBY POWER RECEPTACLE
SRRA	SAFETY ROADSIDE REST AREA
SS	SELECTOR SWITCH
ST	STARTER
TTB	TELEPHONE TERMINAL BOARD
SV	SOLENOID VALVE
T	TRANSFORMER
TB	TERMINAL BLOCK
TC	TIME CLOCK
TDR	TIME DELAY RELAY
TGLS	TOGGLE SWITCH
TM	TIME METER
TOT	TOTAL
TSP	TWISTED SHIELDED PAIR
TS	TIMER SWITCH
TSW	TEST SWITCH
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
WP	WEATHERPROOF

DESIGN	BY James R. Lacy	CHECKED Javid Amirazodi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES	LEGEND	SHEET EE3-0
DETAILS	BY James R. Lacy	CHECKED Ed Tapalla			KM POST	12.8			
QUANTITIES	BY James R. Lacy	CHECKED Javid Amirazodi			PERMANENT GUARD BOOTH				

UNIT PROJECT NUMBER & PHASE 3598 0400000271

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
9/28/05 10/28/05 7/29/06 12/14/07 6/8/11 11/08/11		

FILE => ee3\_0\_0.dgn  
 DATE PLOTTED => 25-FEB-2012  
 ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS  
 TIME PLOTTED => 12:35

# CERTIFICATE OF COMPLIANCE (Page 1 of 4) OLTG-1C

Project Name: <b>Yerba Buena Island Transition Structures</b>	Date: <b>October 27, 2011</b>
Project Address: <b>USCG Base, Yerba Buena Island San Francisco, Ca 94130</b>	Total Hardscape Illuminated Area: <b>6440 (5240 under canopy and 1200 in front of it)</b>

**General Information**

Phase of Construction:  New Construction  Addition  Alteration

**Documentation Author's Declaration Statement**

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

Name: **James R. Lacy** Signature: *James R. Lacy*

Company: **California Department of Transportation** Date: **10/27/2011**

Address: **1801 30th Street Mail Stop 9-3/11H** If applicable: CEA # CEPE #

City/State/Zip: **Sacramento, Ca. 95816** Phone: **916-227-8668**

**Principal Lighting Designer's Declaration Statement**

- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
- This Certificate of Compliance identifies the lighting features and performance specification required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: **James R. Lacy** Signature: *James R. Lacy*

Company: **California Department of Transportation** Phone: **916-227-8668**

Address: **1801 30th Street Mail Stop 9-3/11H** License # **E13770**

City/State/Zip: **Sacramento, Ca. 95816** Date: **10/27/2011**

**Principal Lighting Designer's Declaration**

I Certify that this Certificate of Compliance documentation is accurate and complete, and accounts for all outdoor lighting power, including building mounted, pole mounted, as well as all other outdoor lighting designed for the site, and that Additional Lighting Power Allowances for Specific Applications or Additional Lighting Power Allowances for Ordinance Requirements have not been counted more than one time for the same area, in Accordance with Section 147 of the Standards.

**Outdoor Lighting Mandatory Measures**

Indicate location on building plans of Mandatory Measures Note Block: Title 24 sheets and E3-5

**LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)**

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

- OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittal.
- OLTG-2C (Page 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales Frontage, or Ornamental Lighting. Optional on plans.
- OLTG-2C (Page 2 of 3) Lighting Wattage Allowances for Per Application or Per Area. Optional on plans.
- OLTG-2C (Page 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements. Optional on plans.

2008 Nonresidential Compliance Forms

July 2010

# CERTIFICATE OF COMPLIANCE (Page 2 of 4) OLTG-1C

## COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: **Yerba Buena Island Transition Structures** Date: **October 27, 2011**

INSTALLATION CERTIFICATE, OLTG-1-INST (Retain a copy and verify form is completed and signed.) Field Inspection

CERTIFICATE OF ACCEPTANCE, OLTG-2A (Retain a copy and verify form is completed and signed.) Field Inspection

Luminaire Schedule				Installed Watts						
A	B	C	D	E	F		G	H	I	
Name Or Item Tag	Luminaire Description See footnote below (i.e., lamp pole-top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per Luminaire 1	Special Features	How wattage was determined		Number of Luminaires	Installed Watts (D x G)	Field Inspector 2	
					Default from NA-8	According to S 130 (d or e)			Pass	Fail
L1	Surface mount soffit, 105 watt LED	Yes	105	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12	1260	<input type="checkbox"/>	<input type="checkbox"/>
F3	Surface mount 4', 2 @32 watt FL	Yes	64	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	64	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Enter total into OLTG-1C; Page 4 of 4; Row H; Total Installed Watts:								<b>1324</b>		

1. Type of luminaire (i.e.: post top, wall pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp wattage and lamp type (i.e.: fluorescent incandescent, HID); ballast type (i.e.: electronic or magnetic); number of lamps and number of ballast per luminaire. For incandescent luminaires the luminaire wattage listed in column D shall be the maximum relamping rated wattage on a permanent factory-installed label on the luminaire. NOT the wattage of the lamp (bulb) used, in accordance with Section 130 (d or e).

2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

**EXEMPT LUMINAIRES** Field Inspection

Name or Symbol	Description of exempt luminaires in accordance with S 147

**MANDATORY CONTROLS** Field Inspection

#	Description	Location	#	Description	Location
TC	Time clock	OLCP in Guard booth			

**SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)**

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies base on the adequacy of the special justification and documentation submitted.

Field Inspector Notes or Discrepancies:

2008 Nonresidential Compliance Forms

July 2010

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	811	821

*James R. Lacy* REGISTERED ENGINEER-ELECTRICAL DATE: **11-08-11**

**2-21-12** PLANS APPROVAL DATE

No. **13770** Exp. **9-30-13** ELEC

STATE OF CALIFORNIA

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**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: *Francis Solich* FRANCIS SOLICH

Approval date: **11-09-11**



USERNAME => 6124496 DATE PLOTTED => 25-FEB-2012 TIME PLOTTED => 12:35







DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	815	821

		REGISTERED ENGINEER-ELECTRICAL James R. Lacy No. 13770 Exp. 9-30-13 ELEC STATE OF CALIFORNIA
2-21-12	11-08-11	DATE
PLANS APPROVAL DATE		

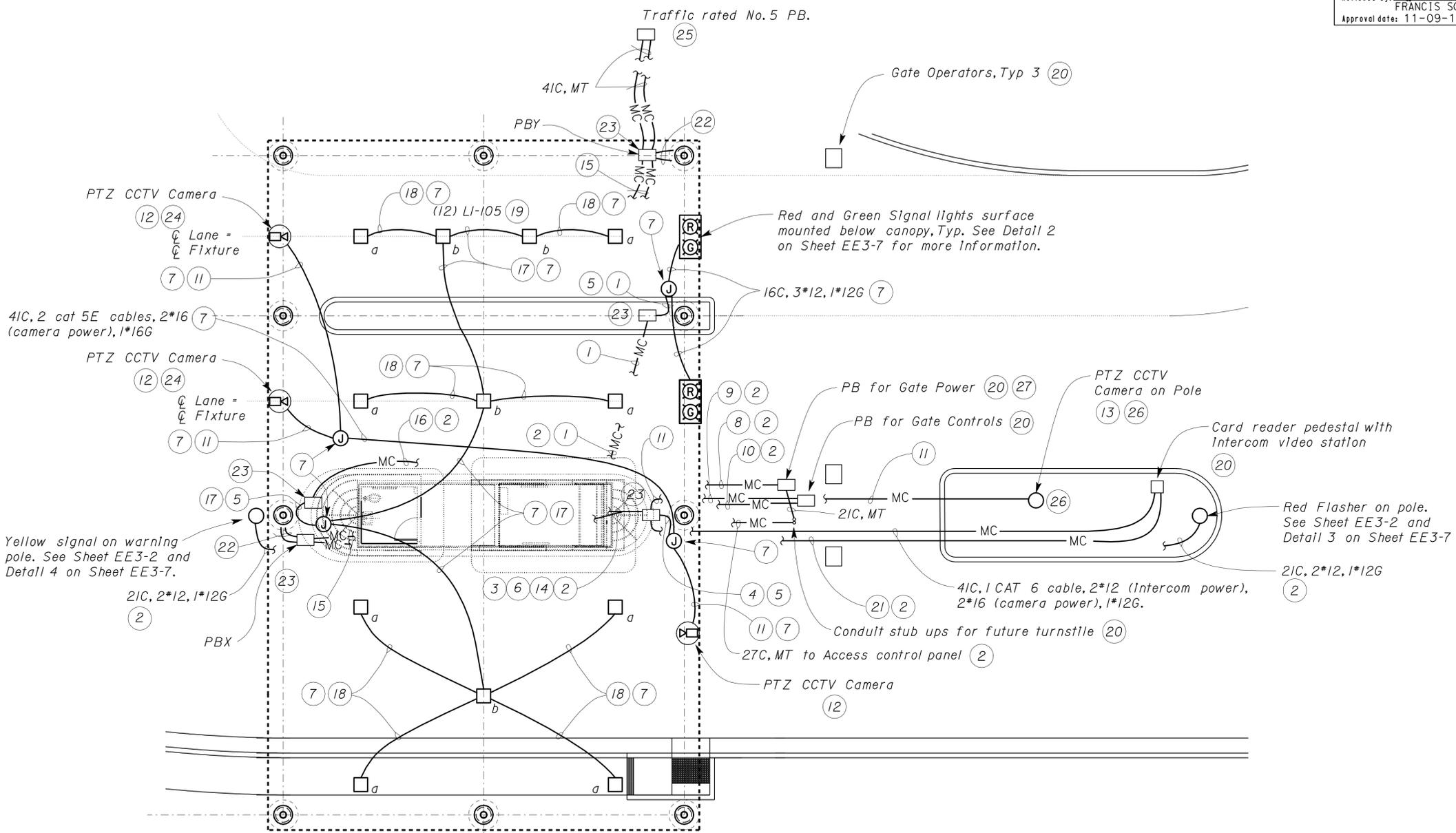
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**General Notes:**

A. For additional conduits for Gate Operators and other items see Sheet EE-26 and other EE sheets.

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 Reviewed by: FRANCIS SOLICH  
 Approval date: 11-09-11



**Notes:**

- 1 27C, 5\*12, 1\*12G for traffic signals.
- 2 For continuation inside Guard Booth see Sheets EE3-2 and EE3-4.
- 3 41C, 4 CAT 5E cables and 1 CAT 6 cable for cameras and Intercom.
- 4 41C, 3 CAT 5E cables, 6\*16, 1\*16G for cameras.
- 5 Conduit goes up the column (inside cladding) to JB in the canopy.
- 6 27C, 10\*16, 1\*12G for camera power.
- 7 Inside canopy.
- 8 21C, 4\*12, 1\*12G, G9, I9 for gate power, 2\*12 spares.
- 9 27C, 3 @ Cat 5E to Access Control Panel.
- 10 41C, 18\*12, 1\*12G for gate controls.
- 11 41C, 1 CAT 5E cable, 2\*16, 1\*16G.
- 12 Camera shall be surface mounted in an enclosure below the canopy soffit.
- 13 Camera shall be inside environmental dome.
- 14 21C, 2\*12, 1\*12G to Intercom video station Transformer (IVST).
- 15 41C, MT to electrical chase for future use.
- 16 27C, 3\*10, 1\*10G to Outside Lighting Control Panel.
- 17 21C, 3\*10, 1\*10G.
- 18 16C, 2\*10, 1\*10G.
- 19 Light fixtures surface mounted below the canopy.
- 20 See Sheet EE-26 for additional information.
- 21 27C, TSP\*18, 3 @ TSP\*22, 1\*12G to Access Control Panel.
- 22 41C, MT, typ. Conduits go up the column (inside cladding) and get capped inside the canopy.
- 23 Number 5 pull box.
- 24 Camera positioned in center of lane.
- 25 Exact location within 15 meters of the column will be determined by the Engineer. The Contractor will do all trenching, conduit install and patching as required.
- 26 Pole and foundation shall be similar to Detail 3 on Sheet EE3-7 except with hardware and cabling as needed for camera installation. Exact pole location will be as directed by the Engineer (and within 5 meters of where shown here).
- 27 Coil 5 meters extra of each spare conductor in PB.

**PARTIAL SITE PLAN**  
SCALE 1:50

DOS ELEC (10/98) FILE => ee3_01.dgn DATE PLOTTED => 27-FEB-2012 TIME PLOTTED => 11:23	 DESIGN SUPERVISOR	DESIGN BY James R. Lacy CHECKED Javid Amirzodi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 34-004	<b>YERBA BUENA ISLAND          TRANSITION STRUCTURES</b>	SHEET
		DETAILS BY James R. Lacy CHECKED Ed Tapalla			KM POST 12.8		PERMANENT GUARD BOOTH
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		0 10 20 30 40 50 60 70 80 90 100		CU 04-251 EA 04-01201	REVISION DATES (PRELIMINARY STAGE ONLY)		
DISREGARD PRINTS BEARING EARLIER REVISION DATES					3/11/11 4/29/11 5/25/11 6/7/11 7/5/11 11/08/11		

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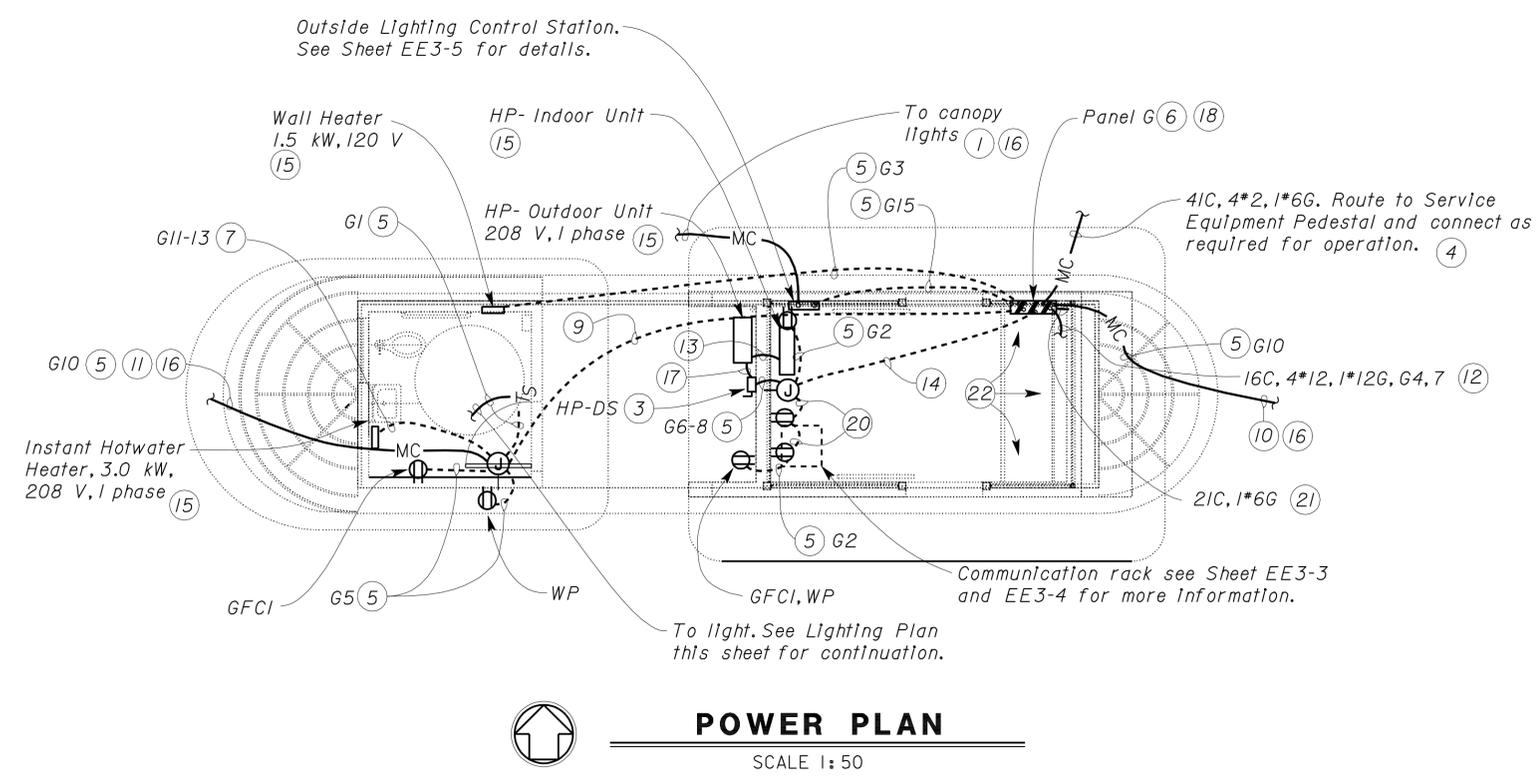
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	816	821

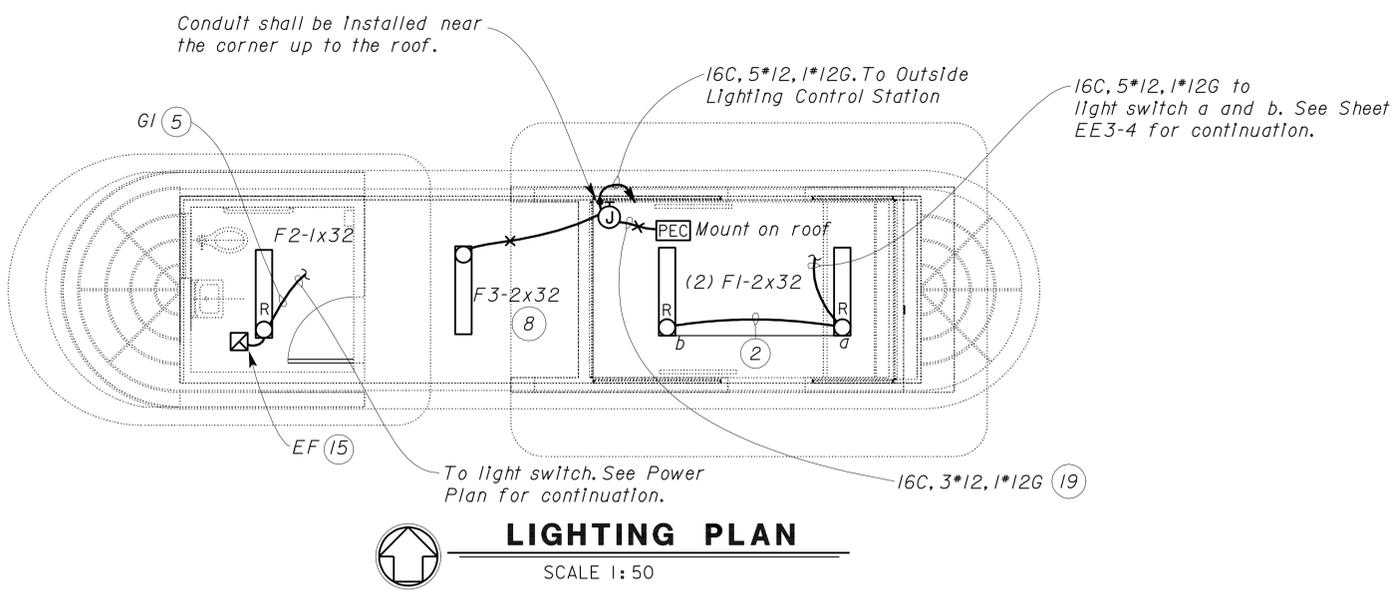
<i>James R. Lacy</i> REGISTERED ENGINEER-ELECTRICAL DATE 11/08/11		
2-21-12 PLANS APPROVAL DATE		
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 Reviewed by: *Francis Solich*  
 Approval date: 11-09-11



- Notes:**
- 1 27C, 3\*10, 1\*10G.
  - 2 16C, the number of \*12 conductors as required for dimming the fixtures.
  - 3 Heat Pump disconnect shall be installed on this wall at a location as directed by the Engineer.
  - 4 For continuation see Sheet EE-26.
  - 5 21C, 2\*12, 1\*12G.
  - 6 Panel G shall be installed under the counter. For Panel schedule see sheet EE3-5.
  - 7 16C, 2\*10, 1\*12G.
  - 8 F3 fixture is surface mounted below the roof.
  - 9 21C, 2\*10, G11-13, 6\*12, 1\*12G, G1, 5, and 10.
  - 10 To single head red LED warning flasher and signal assembly. The Contractor shall provide and install all necessary hardware as required for operation. See Detail 3 on Sheet EE3-7 for more information.
  - 11 To single head yellow LED warning pole and signal assembly. The Contractor shall provide and install all necessary hardware as required for operation. See Detail 4 on Sheet EE3-7 for more information.
  - 12 Mount DPs on front of raised chase, Typ 6. See sheet EE3-4 for more information.
  - 13 Conduit and conductors as required per Heat Pump manufacturers installation directions.
  - 14 21C, 6\*12, 1\*12G, G2, 23, 6-8
  - 15 See Mechanical sheets for more details.
  - 16 See EE3-1 for continuation.
  - 17 16C, liquid tight flexible metallic conduit, 2\*12, 1\*12G, G6-8.
  - 18 Route 21C, 1\*4G to nearby ground bar and bond. See Structural sheets for location.
  - 19 Roof mounted conduit goes to JB. Seal roof penetrations.
  - 20 21C, 4\*12, 1\*12G, G2, 23.
  - 21 To Ground bar and bond \*6 conductor.
  - 22 For front, left and right side counter elevations see Detail 1 on Sheet EE3-4.



**General Notes:**  
 A. See other Electrical Sheets for additional conduits.

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DESIGN BY <i>James R. Lacy</i> CHECKED <i>Javid Amirzodi</i> DETAILS BY <i>James R. Lacy</i> CHECKED <i>Ed Tapalla</i> QUANTITIES BY <i>James R. Lacy</i> CHECKED <i>Javid Amirzodi</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 34-004	<b>YERBA BUENA ISLAND</b> <b>TRANSITION STRUCTURES</b>		SHEET <b>EE3-2</b>
			KM POST 12.8	PERMANENT GUARD BOOTH	GUARD BOOTH POWER AND LIGHTING PLAN	
DOS ELEC (10/98) FILE => ee3_02.dgn DATE PLOTTED => 25-FEB-2012 TIME PLOTTED => 12:36 ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100			CU 04-251 EA 04-01201		REVISION DATES (PRELIMINARY STAGE ONLY) 10/23/05 10/28/05 3/29/06 6/23/06 11/08/07 12/14/07 7/06/11 10/18/11 11/08/11	

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 Reviewed by: *[Signature]*  
 FRANCIS SOLICH  
 Approval date: 11-09-11



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	817	821

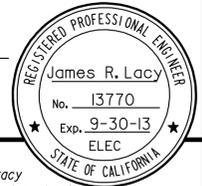
  

<i>James R. Lacy</i> REGISTERED ENGINEER-ELECTRICAL	11-08-11 DATE
2-21-12 PLANS APPROVAL DATE	

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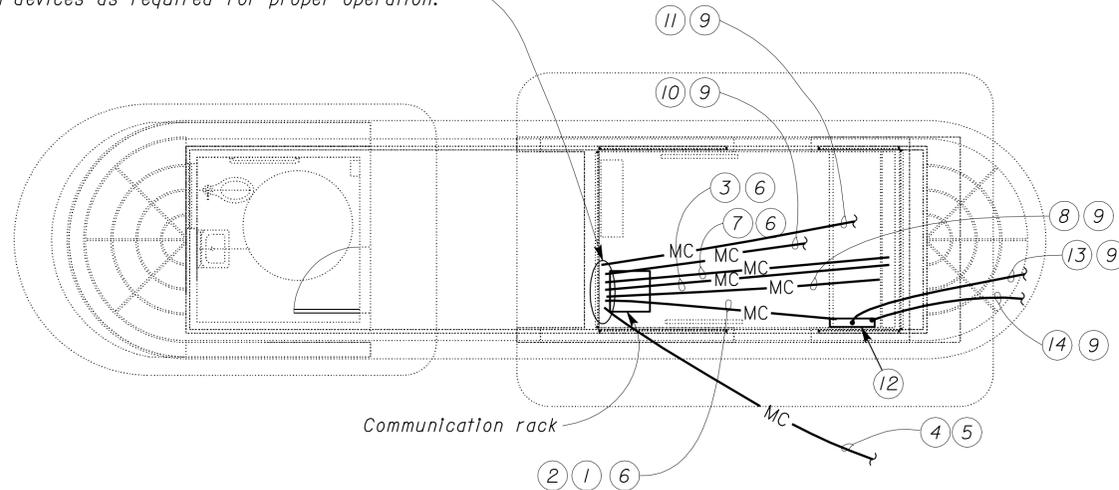
Notes:

- ① 2IC, 1 CAT6 cable from Access Control Panel to Ethernet Switch (security).
- ② 4IC, empty from Access Control Panel to communication rack.
- ③ 4IC, MT to Electrical Chase at Counter.
- ④ 63C, FO cable, 6 TSP, Tel Cable (25 @ TSP \*22).
- ⑤ For Continuation see Sheet EE-26.
- ⑥ For Continuation see Sheet EE3-4.
- ⑦ 27C, FO cable from FO Patch panel to VRCP panel on the Counter.
- ⑧ 2IC, 1 CAT 6 cable to telephone at front counter.
- ⑨ For continuation see Sheet EE3-1.
- ⑩ 27C, Cat 6 to Intercom.
- ⑪ 4IC, 4 CAT 5E cables and 1 CAT 6 cable to pull box for cameras.
- ⑫ Access Control Panel. See Sheet EE-26 for more information.
- ⑬ 27C, 3 @ Cat 5E to Gates (via No. 6 Pull box).
- ⑭ 27C, MT to communication side of divided PB for future turnstile.
- ⑮ For Communication Rack elevation see Detail 2 on Sheet EE3-4.

General Notes:

- A. See Sheet EE3-4 for Booth Elevations.
- B. See other Electrical Sheets for additional conduits.

⑮ Stub up conduit 150 mm and terminate cables at devices as required for proper operation.



**COMMUNICATION PLAN**

SCALE 1:50

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DESIGN	BY James R. Lacy	CHECKED Javid Amirazodi
DETAILS	BY James R. Lacy	CHECKED Ed Tapalla
QUANTITIES	BY James R. Lacy	CHECKED Javid Amirazodi

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES  
 ELECTRICAL-MECHANICAL-WATER  
 AND WASTEWATER DESIGN

BRIDGE NO.	34-004
KM POST	12.8

**YERBA BUENA ISLAND  
 TRANSITION STRUCTURES**  
 PERMANENT GUARD BOOTH  
 GUARD BOOTH COMMUNICATION PLAN

SHEET  
**EE3-3**

USERNAME => s121614 DATE PLOTTED => 27-FEB-2012 TIME PLOTTED => 11:26

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	818	821

		REGISTERED ENGINEER-ELECTRICAL James R. Lacy No. 13770 Exp. 9-30-13 ELEC STATE OF CALIFORNIA
2-21-12 PLANS APPROVAL DATE		11-08-11 DATE

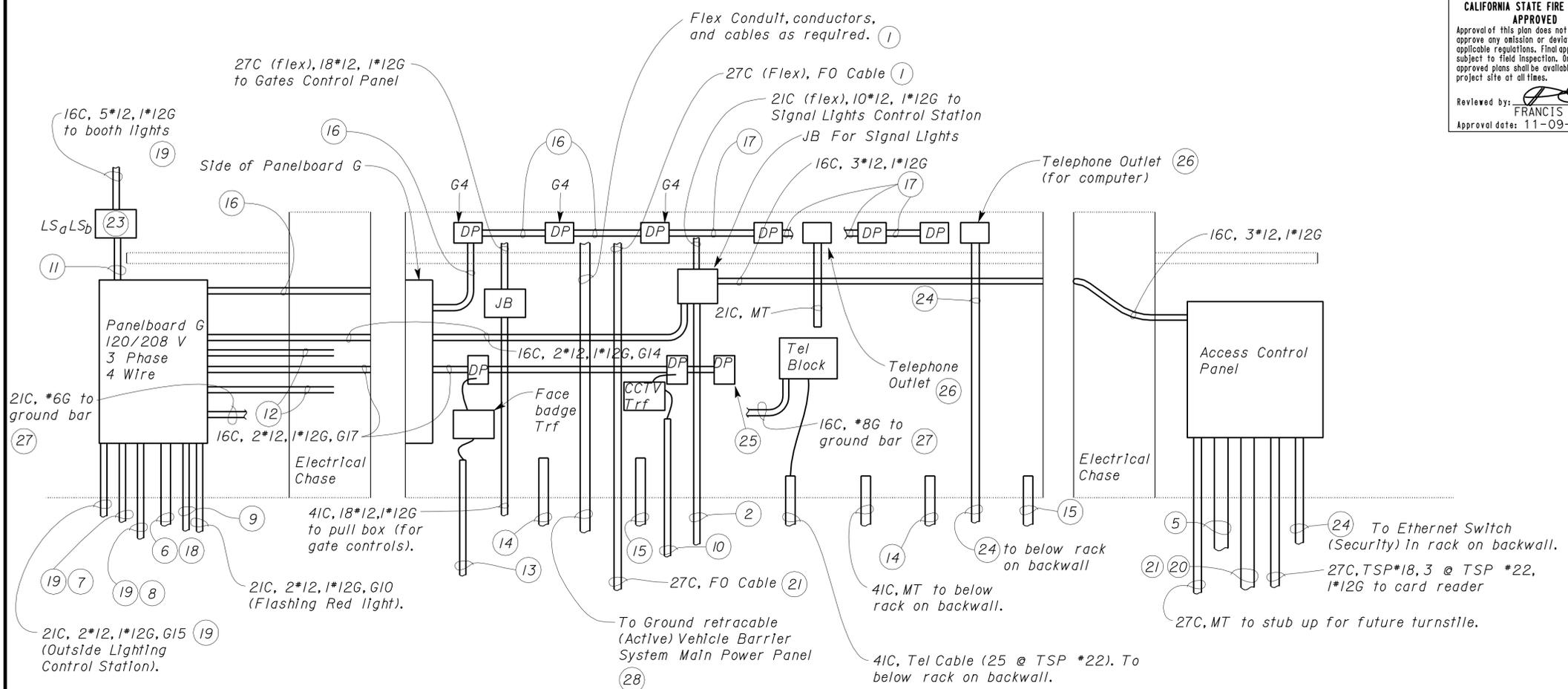
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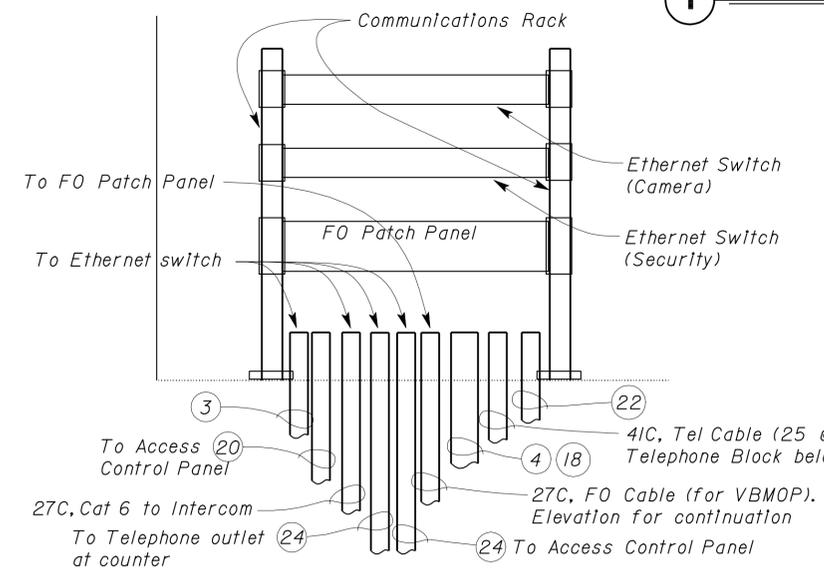
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Reviewed by:   
 FRANCIS SOLICH  
 Approval date: 11-09-11



**LEFT SIDE FRONT RIGHT SIDE COUNTER ELEVATIONS**

① NO SCALE



**COMMUNICATION RACK ELEVATION**

② NO SCALE

- General Notes:**
- A. Conduit continuation can be found on Sheet EE3-1 unless otherwise noted.
  - B. Conductors and cables shall be terminated on devices as required for operation per plan and block diagram sheets.
  - C. Conduit system and devices under counter are inside the electrical chase unless otherwise noted.
  - D. Timer switch for rest-room shut off shall be tested for compliance with Title 24 Shut off controls. Dimming light switches shall be tested for dual zone lighting requirements for Title 24. The guard booth 24 hour operation triggers the exception to Title 24 light shut off requirement.

- Notes:**
- ① To Vehicle Barrier Master Operator Panel (VBMOP) located on the counter.
  - ② 27C, 5\*12, 1\*12G to Traffic Signal Lights in Canopy (via pull box).
  - ③ 41C, 4 CAT 5E cables (cameras) and 1 CAT 6 cable (Intercom) to pull box.
  - ④ 63C, FO cable, 6 TSP, Tel Cable (25 @ TSP \*22).
  - ⑤ 27C, 3 @ Cat 5E to gates (Via No. 6 Pull Box)
  - ⑥ 41C, 4\*2, 1\*6G (Panel feeder).
  - ⑦ 21C, 2\*10, G11-13, 6\*12, 1\*12G, G15, 10 (for restroom lights, water heater, DP's and exterior flashing yellow light).
  - ⑧ 21C, 6\*12, 1\*12G, G2, 6-8, 23 to DP's, heat pump and Comm rack DP's.
  - ⑨ 21C, 4\*12, 1\*12G, G9, 19 to gates (via pull box), 2\*12 spares.
  - ⑩ 27C, 10\*16, 1\*12G, to CCTV cameras (via pull box).
  - ⑪ 16C, 2\*12, 1\*12G, G1 (for booth lights).
  - ⑫ 27C, MT cap conduits inside the chase for future loads.
  - ⑬ 21C, 2\*12, 1\*12G to face badge reader (via pull box).
  - ⑭ 41C, to Pull box X for future loads.
  - ⑮ 41C, to Pull Box Y for future loads.
  - ⑯ 16C, 4\*12, 1\*12G, G4, 7.
  - ⑰ 16C, 2\*12, 1\*12G, G7.
  - ⑱ For continuation see Sheet EE-26.
  - ⑲ For continuation see Sheet EE3-2.
  - ⑳ 41C, empty.
  - ㉑ To communication rack on backwall.
  - ㉒ 41C, MT to Electrical Chase at Counter
  - ㉓ Dimming light switches for fixtures a and b.
  - ㉔ 21C, Cat 6 cable.
  - ㉕ Outlet installed flush (in front of Electrical chase).
  - ㉖ Includes Cat 6 termination jack, Cat 6 face plate and Cat 6 termination box.
  - ㉗ Bond conductor to ground bar.
  - ㉘ For continuation see Sheet EE-9.

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DESIGN	BY James R. Lacy	CHECKED Javid Amirazodi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	34-004	<b>YERBA BUENA ISLAND          TRANSITION STRUCTURES</b>	SHEET		
DETAILS	BY James R. Lacy	CHECKED Ed Tapalla			KM POST	12.8		PERMANENT GUARD BOOTH	GUARD BOOTH ELEVATIONS	EE3-4
QUANTITIES	BY James R. Lacy	CHECKED Javid Amirazodi			REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET	OF	

CU 04-251  
 EA 04-01201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

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DOS ELEC (10/98)

FILE => ee3\_04.dgn  
 DATE PLOTTED => 25-FEB-2012  
 TIME PLOTTED => 12:36

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

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DATE PLOTTED => 25-FEB-2012  
 TIME PLOTTED => 12:36

USERNAME => 6124496 DATE PLOTTED => 25-FEB-2012 TIME PLOTTED => 12:36

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	819	821

REGISTERED ENGINEER-ELECTRICAL	DATE
James R. Lacy	11-08-11
2-21-12	PLANS APPROVAL DATE

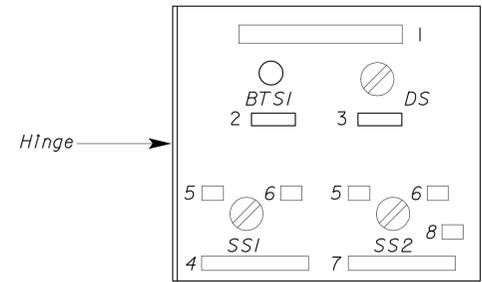
REGISTERED PROFESSIONAL ENGINEER
James R. Lacy
No. 13770
Exp. 9-30-13
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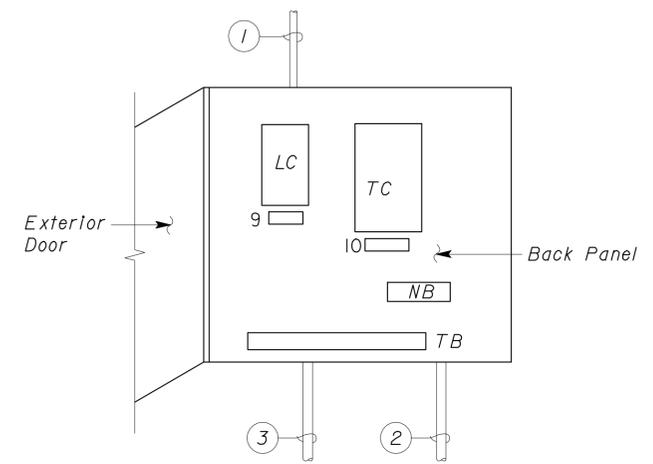
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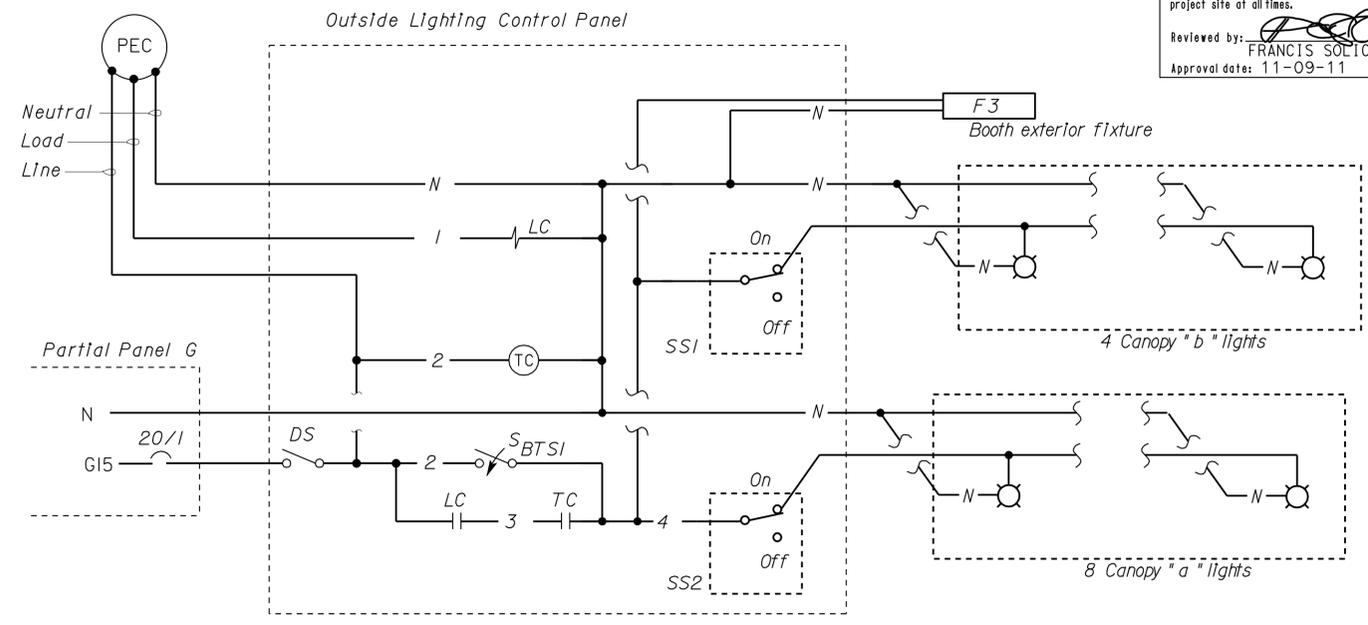
Reviewed by: FRANCIS SOLICH  
Approval date: 11-09-11



**EXTERIOR DOOR**



**EQUIPMENT LAYOUT**



**OUTSIDE LIGHTING CONTROL STATION (OLCS) SCHEMATIC DIAGRAM**

- Notes:
- 16C, 5\*12, 1\*12G to junction box on roof. For continuation, see sheet EE3-2.
  - 21C, 2\*12, 1\*12G, G15 to Panel G.
  - 27C, 3\*10, 1\*10G to Canopy Lights via No. 5 pull box. For continuation see sheet EE3-1.

General Notes:

A PEC, TC and associated controls shall be tested for compliance with Title 24 Lighting shut off requirements.

NAMEPLATE SCHEDULE		
ITEM NO.	INSCRIPTION	LETTER HEIGHT (mm)
1	OUTSIDE LIGHTING CONTROLS	9
2	BYPASS (TEST SWITCH)	6
3	DISCONNECT SWITCH	6
4	CORE LIGHTS	6
5	ON	6
6	OFF	6
7	PERIMETER LIGHTS	6
8	LIGHTS OFF	6
9	LIGHTING CONTACTOR	6
10	TIME CLOCK	6

**OUTSIDE LIGHTING CONTROL STATION**

MAIN: 60 AMPERE, 3 POLE CB  
VOLTS: 120/208 V, 3 PHASE, 4 WIRE

PANEL: G

FEEDER SIZE: 41C, 3\*2, 1\*6G  
LOCATION: UNDER COUNTER

DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
INTERIOR LTS & RESTROOM EF	5			20/1**	1	•			2	20/1	4.5			DP'S - WEST & HP EXTERIOR
RESTROOM WALL HEATER		12.5		*	3		•		4	20/1		4.5		DP'S - COUNTER NORTH
DP - RESTROOM AND EXTERIOR			3	20/1	5			•	6	*			9	HEAT PUMP
DPs - COUNTER SOUTH	4.5				7	•			8	↓	9			↓
ENTRANCE GATE OPERATORS		8		↓	9		•		10	20/1		2		GUARD HOUSE FLASHING LTG & BEACON
INSTANT WATER HEATER - RESTROOM			14.4	*	11			•	12	↓			3	CCTV CAMERAS
↓	14.4			↓	13	•			14	↓	2			SIGNAL LIGHTS
OUTSIDE LIGHTING CONTROL STATION		14		20/1	15		•		16	↓	0			SPARE
DP's UNDER COUNTER			3	↓	17			•	18	↓	0			SPARE
EXIT GATE OPERATORS	8			↓	19	•			20	↓	0			SPACE
SPACE					21			•	22	↓	0			SPACE
DP's WALL @ COMMUNICATION RACK			3		23			•	24	↓	0			SPACE

\* Circuit breaker shall be sized as recommended by the equipment manufacturer.  
\*\* Lockable type Circuit breaker.

A	B	C	TOTAL AMPERES PER PHASE
47.4	41	35.4	

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DETAILS	BY James R. Lacy	CHECKED Ed Tapalla			KM POST	12.8		PERMANENT GUARD BOOTH	GUARD BOOTH DETAILS
QUANTITIES	BY James R. Lacy	CHECKED Javid Amirazodi			UNIT PROJECT NUMBER & PHASE	3598 0400000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

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TIME PLOTTED => 12:36  
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EA 04-0120T  
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10/3/05 10/28/05 6/20/06 7/3/06 12/14/07 11/9/10 2/7/11 5/26/11 6/3/11 11/08/11

USERNAME => 6124496 DATE PLOTTED => 25-FEB-2012 TIME PLOTTED => 12:36



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	820	821

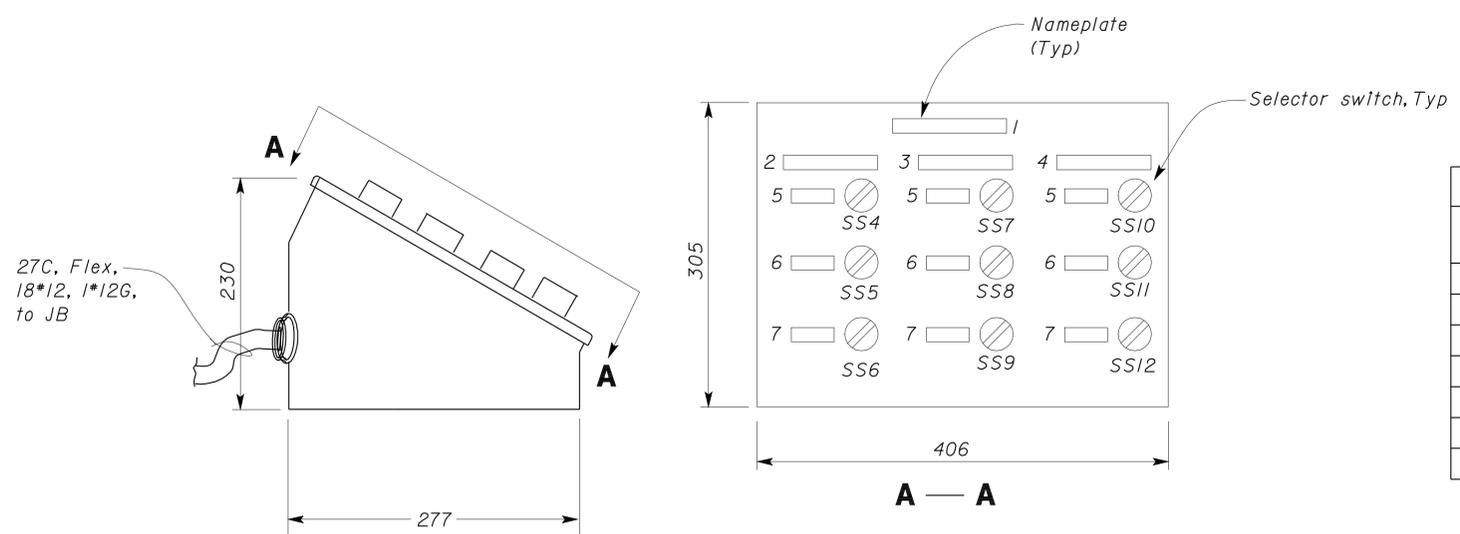
  

James R. Lacy	11-08-11
REGISTERED ENGINEER-ELECTRICAL	DATE
2-21-12	
PLANS APPROVAL DATE	

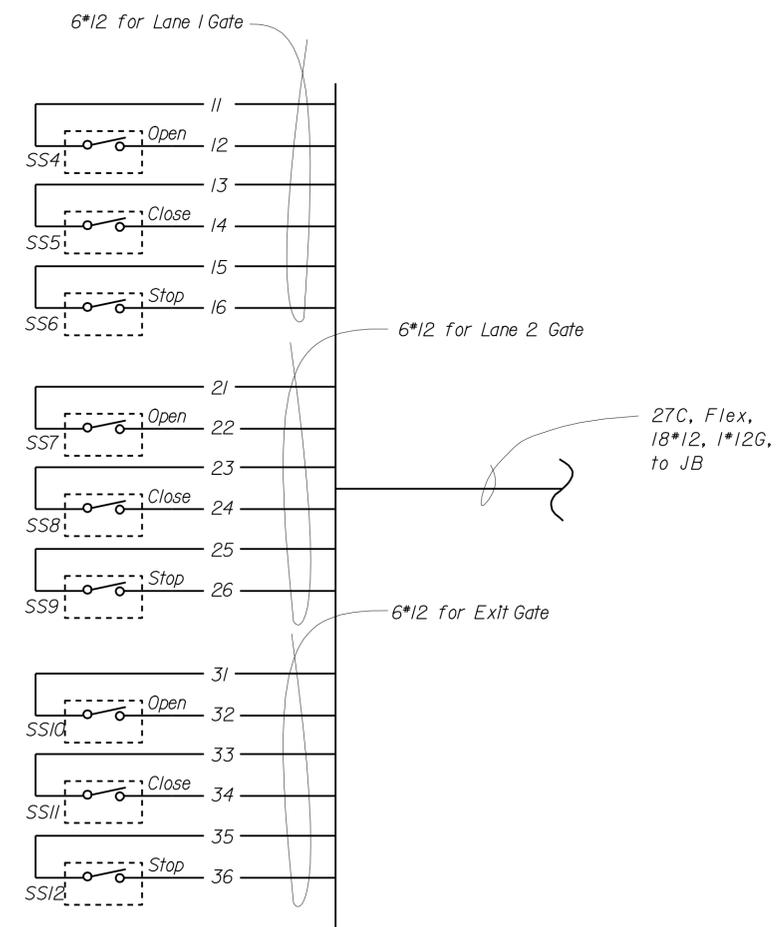
REGISTERED PROFESSIONAL ENGINEER
James R. Lacy
No. 13770
Exp. 9-30-13
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STATE OF CALIFORNIA

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ITEM NO.	INSCRIPTION	LETTER HEIGHT (mm)
1	GATE CONTROLS	9
2	LANE 1 (NEAR BOOTH)	6
3	LANE 2 (SECOND LANE)	6
4	EXIT GATE	6
5	OPEN	6
6	CLOSE	6
7	STOP	6

**1 GATES CONTROL PANEL**  
 NO SCALE  
 (Dimensions are approximate only)



**GATES CONTROL SCHEMATIC**

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DETAILS	BY James R. Lacy	CHECKED Ed Tapalla			34-004		GATE CONTROL PANEL DETAILS	EE3-6
QUANTITIES	BY James R. Lacy	CHECKED Javid Amirazodi			KM POST			
					12.8			

DOS ELEC (10/98)	FILE => ee3_06.dgn	DATE PLOTTED => 27-FEB-2012	TIME PLOTTED => 11:29	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	0 10 20 30 40 50 60 70 80 90 100	CU 04-251 EA 04-0120T1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
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 Reviewed by: FRANCIS SOLICH  
 Approval date: 11-09-11

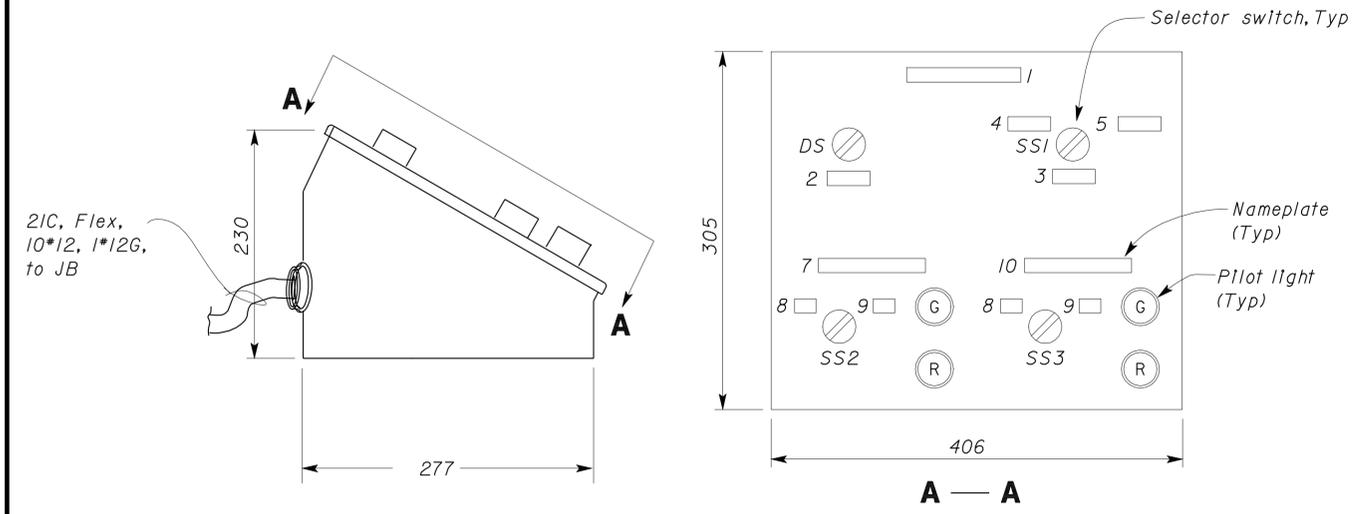


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	821	821

James R. Lacy  
 REGISTERED ENGINEER-ELECTRICAL  
 DATE: 11-08-11  
 2-21-12  
 PLANS APPROVAL DATE

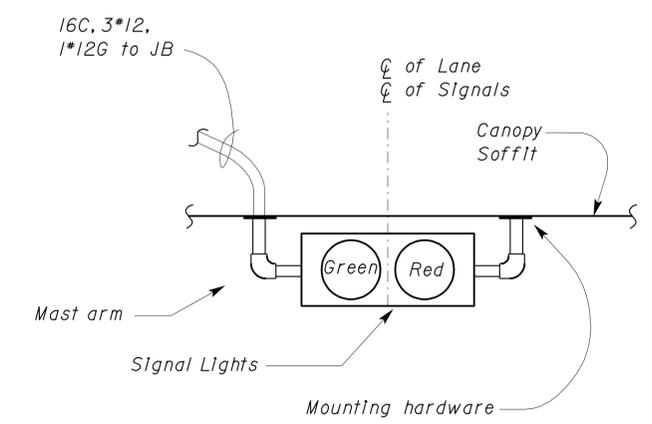
James R. Lacy  
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 No. 13770  
 Exp. 9-30-13  
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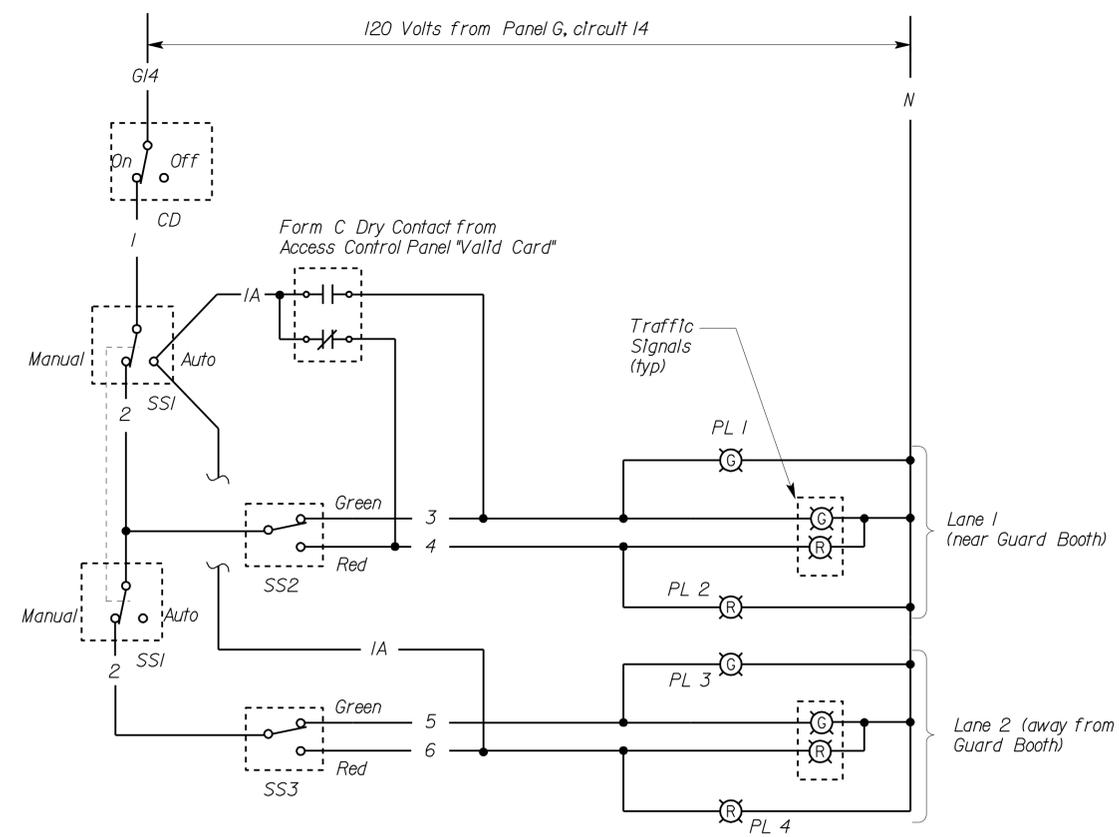


**1 SIGNAL LIGHTS CONTROL STATION**  
 NO SCALE  
 (Dimensions are approximate only)

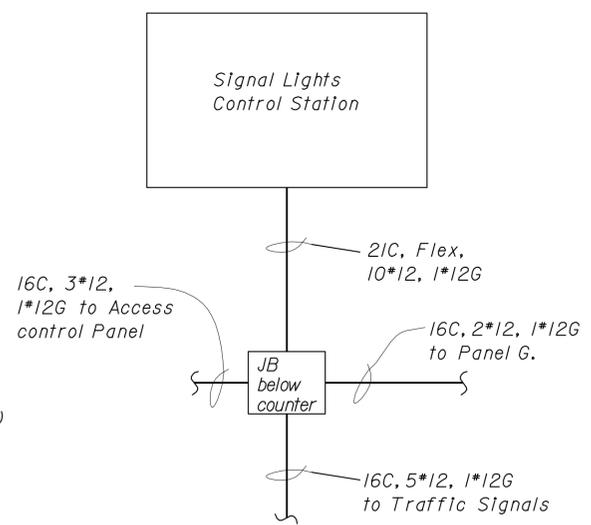
ITEM NO.	INSCRIPTION	LETTER HEIGHT (mm)
1	LANE SIGNAL CONTROLS	9
2	POWER ON-OFF	6
3	OPERATION MODE	6
4	MANUAL	6
5	AUTOMATIC	6
6	CLOSED	6
7	LANE 1 (NEAR BOOTH)	6
8	GREEN	6
9	RED	6
10	LANE 2 (SECOND LANE)	6



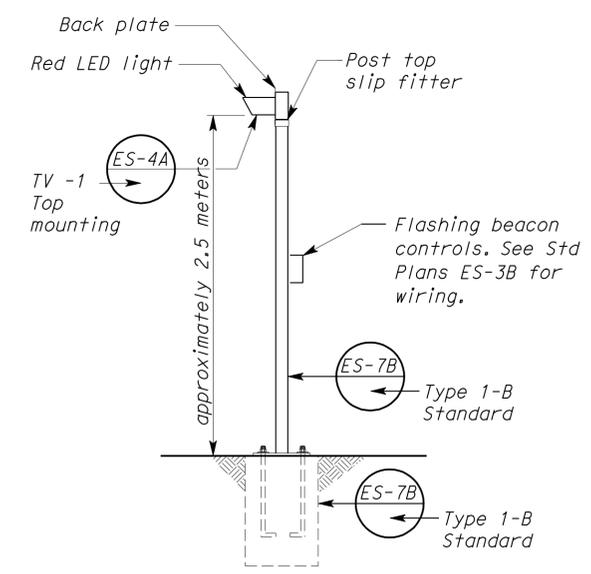
**2 CANOPY SIGNAL LIGHTS**  
 NO SCALE



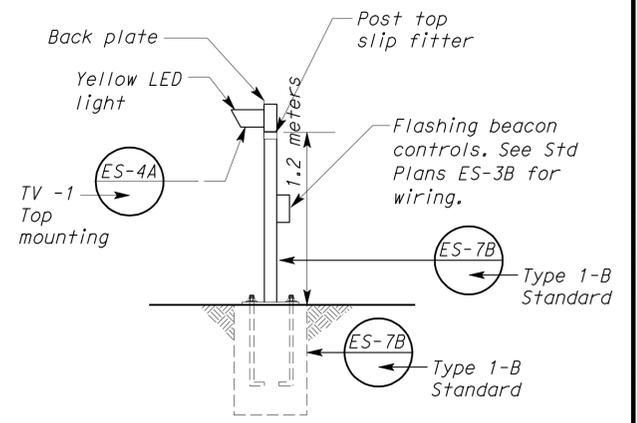
**SIGNAL LIGHTS SCHEMATIC**



**SIGNAL LIGHTS ELECTRICAL DETAILS**



**3 FLASHER POLE**  
 NO SCALE



**4 WARNING POLE**  
 NO SCALE

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DESIGN	BY James R. Lacy	CHECKED Javid Amirzodi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES	SHEET
DETAILS	BY James R. Lacy	CHECKED Ed Tapalla		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	KM POST 12.8		EE3-7
QUANTITIES	BY James R. Lacy	CHECKED Javid Amirzodi					

CU 04-251  
 EA 04-01201

REVISION DATES (PRELIMINARY STAGE ONLY)

4/11/11	4/28/11	5/17/11	5/26/11	6/7/11	10/18/11	11/08/11
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