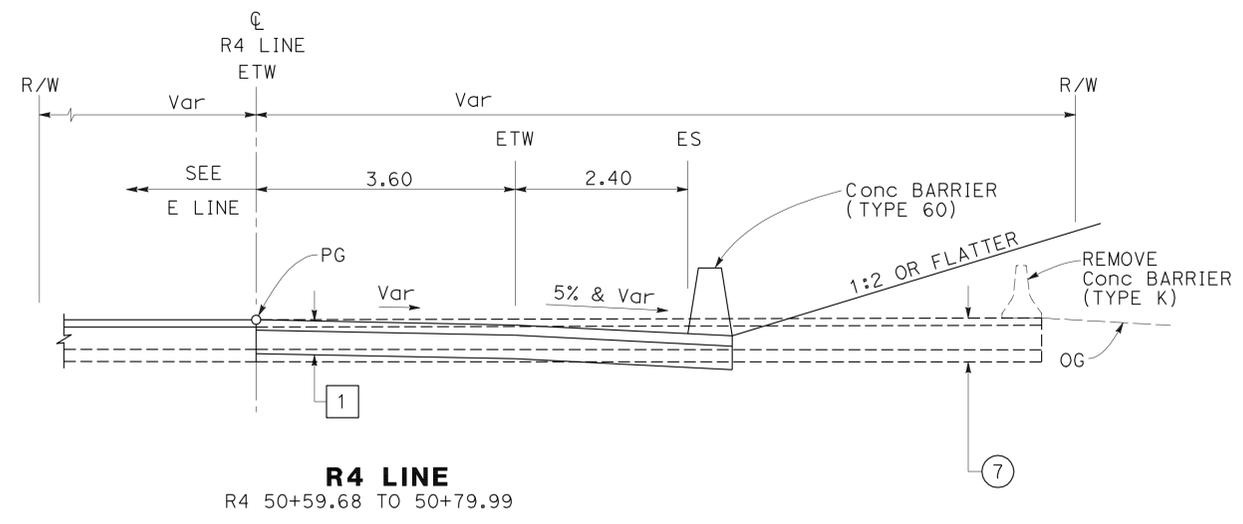
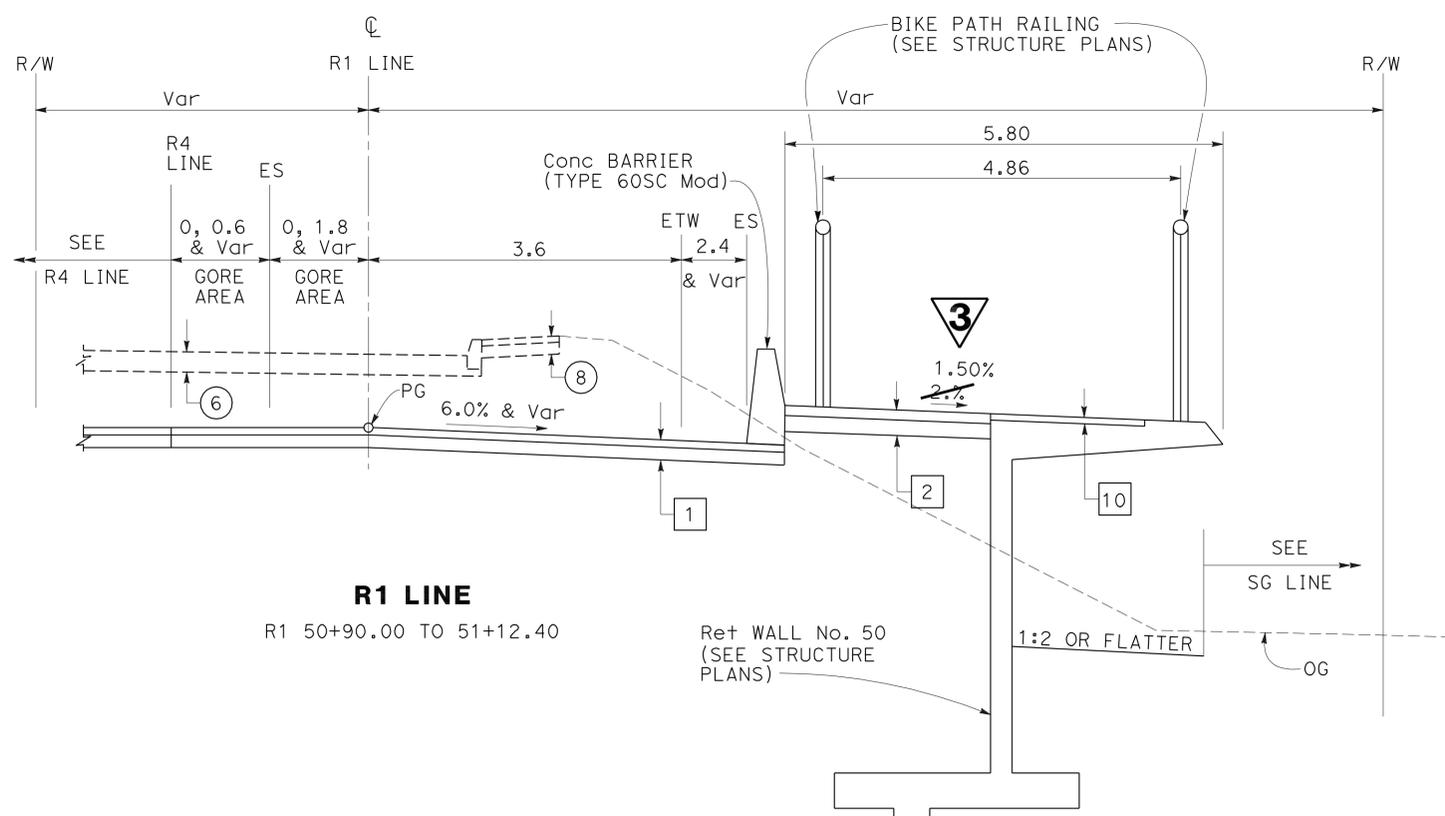
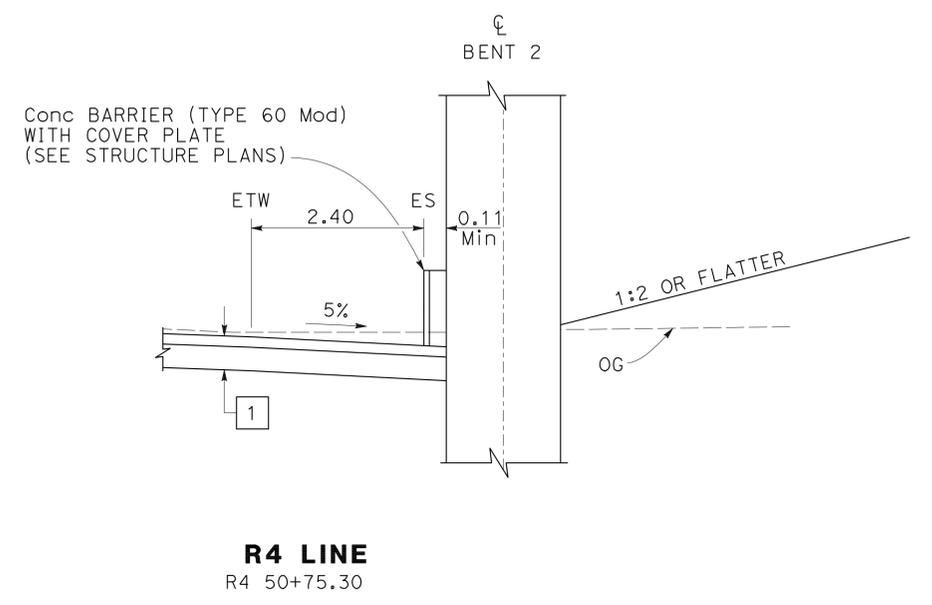
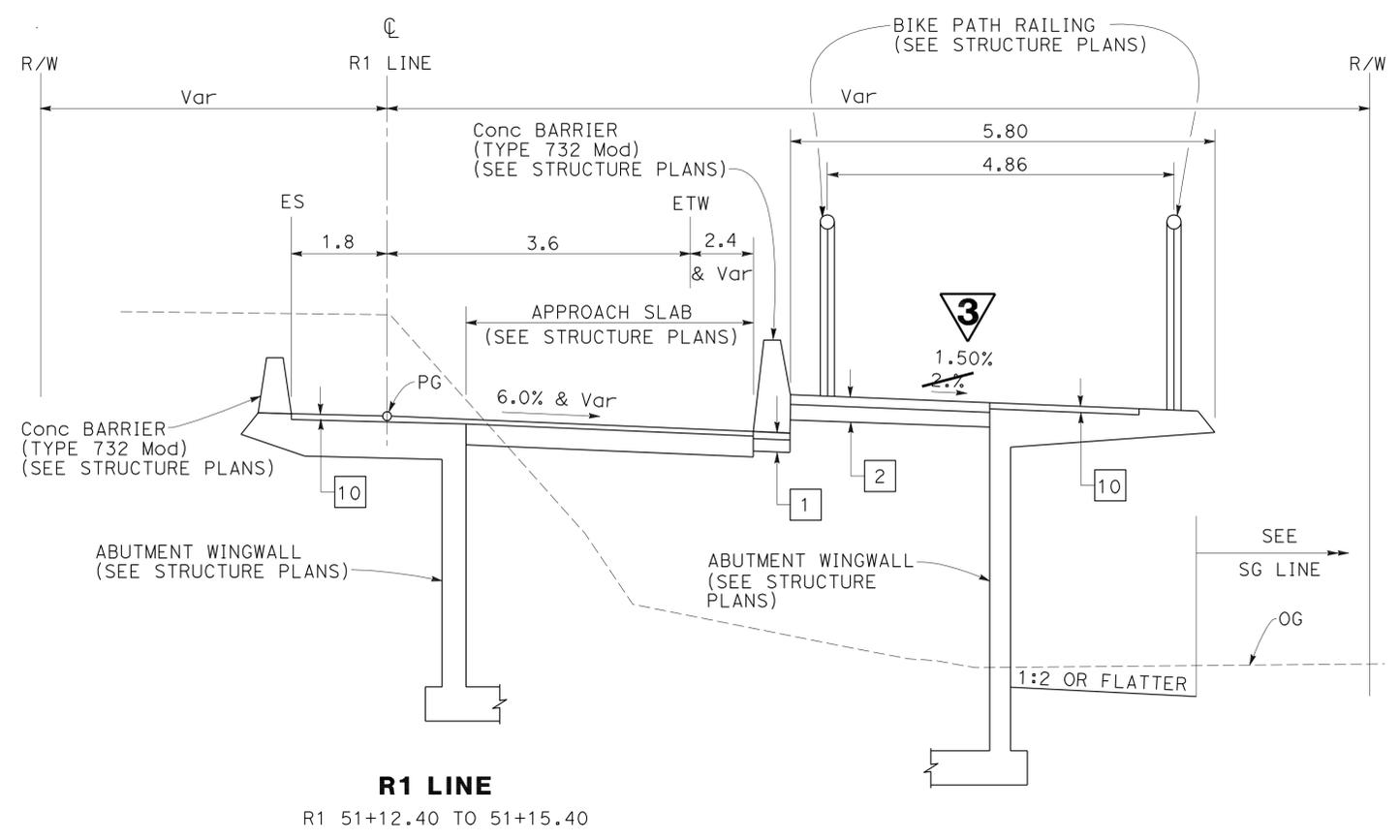


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: BOB ZANDIPOUR
 CALCULATED/DESIGNED BY: AMANDO VITO
 CHECKED BY:
 WEN-SHIU HORNG
 REVISIONS: 11-1-11
 DATE REVISED: 11-1-11



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	3	821

11-2-11
 REGISTERED CIVIL ENGINEER DATE
 Wen-Shiou Horng
 No. 61135
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 PLANS APPROVAL DATE: 2-21-12
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3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

FOR NOTES, ABBREVIATIONS &/OR LEGEND, SEE SHEET X-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
TYPICAL CROSS SECTIONS
 NO SCALE
X-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT - FUNCTIONAL SUPERVISOR
 BOB ZANDIPOUR

CALCULATED-DESIGNED BY
 CHECKED BY

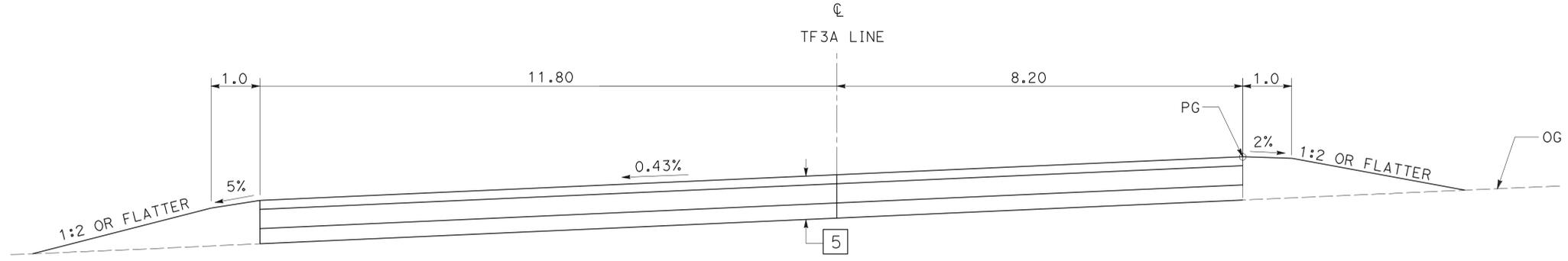
M. GRODZKI
 B. NADELL

REVISOR BY
 DATE REVISED

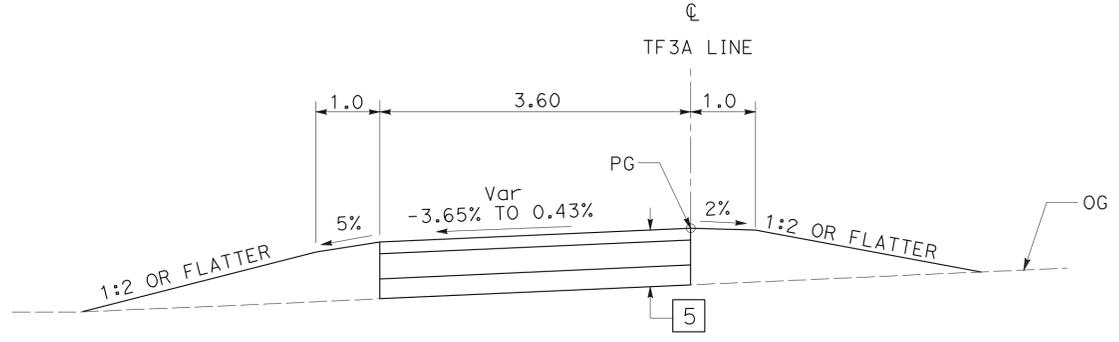


Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	16	821

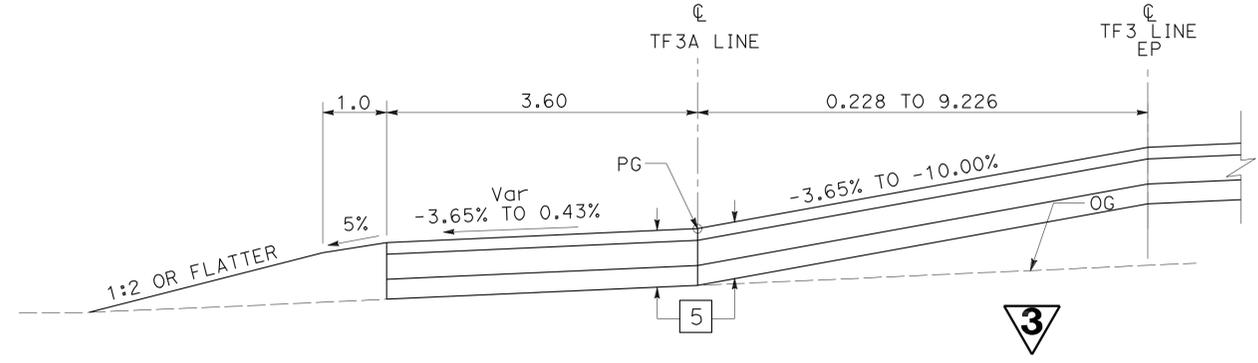
REGISTERED CIVIL ENGINEER: *Mark Grodzki* DATE: 10/31/11
 PLANS APPROVAL DATE: 2-21-12
 No. 65594 Exp. 09/30/13
 CIVIL
 STATE OF CALIFORNIA
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 PB AMERICAS, Inc.
 303 Second St., Suite 700N
 San Francisco, CA 94107-1317



TF3A LINE
 Sta 2+88.567 TO 2+94.567



TF3A LINE
 Sta 2+38.340 TO 2+88.567



TF3A LINE
 Sta 2+24.400 TO 2+38.340

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
TYPICAL CROSS SECTIONS
 NO SCALE
X-15

FOR NOTES, ABBREVIATIONS &/OR LEGEND, SEE SHEET X-1



USERNAME => s119571
 DGN FILE => 40120+cc015.add

CU 04251 EA 0120T1

BORDER LAST REVISED 3/1/2007

LAST REVISION DATE PLOTTED => 01-JUN-2012
 00-00-00 TIME PLOTTED => 14:45

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



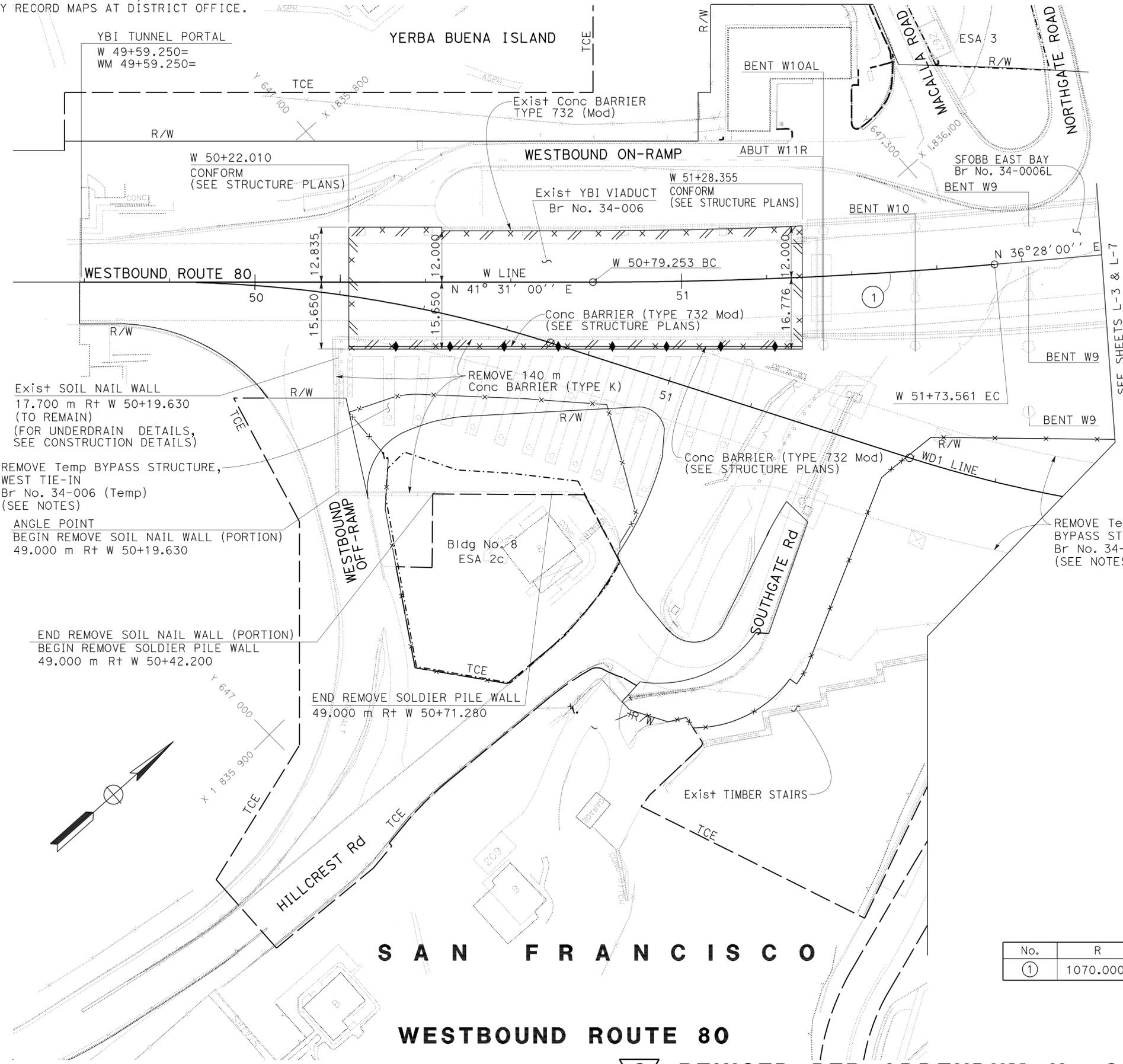
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	18	821

11-1-11
 REGISTERED CIVIL ENGINEER DATE
 Brian M. Wood
 No. 76969
 Exp. 12-31-12
 CIVIL
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BW
 11-1-11
 REVISOR
 DATE REVISED

BRIAN WOOD
 AMANDO VITO
 DESIGNER
 CHECKED BY

BOB ZANDIPOUR
 FUNCTIONAL SUPERVISOR



NOTES:

- COORDINATES, DISTANCES AND BEARINGS ARE BASED ON CCS 1983 ZONE 3
- ELEVATIONS ARE BASED ON 1929 NATIONAL GEODETIC VERTICAL DATUM (NGVD)
- FOR BRIDGES No. 34-0006 R/L, SEE STRUCTURE PLANS
- FOR Temp BYPASS STRUCTURE, BRIDGE No. 34-0006 (Temp), SEE STRUCTURE PLANS
- FOR Exist FACILITIES REMOVAL, SEE CONSTRUCTION DETAIL PLANS, STRUCTURE PLANS, & ARCHITECTURAL PLANS
- FOR ESA BOUNDARIES AND TEMPORARY CONSTRUCTION EASEMENT, SEE CONSTRUCTION DETAILS PLANS
- FOR CONTOUR GRADING INFORMATION, SEE CONTOUR GRADING PLANS
- FOR CHAIN LINK FENCE AND GATE LAYOUT AND DETAIL, SEE CONSTRUCTION DETAIL PLANS

ABBREVIATIONS:

ATM	AREA TO BE MONITORED DURING CONSTRUCTION
BCC	BEGINNING OF COMPOUND CURVE
ESA	ENVIRONMENTALLY SENSITIVE AREA
SCA	SPECIAL CONSTRUCTION AREA
SFOBB	SAN FRANCISCO OAKLAND BAY BRIDGE
SSD	SOUTH SOUTH DETOUR
TCE	TEMPORARY CONSTRUCTION EASEMENT
USCG	UNITED STATES COAST GUARD
YBI	YERBA BUENA ISLAND
HMA	HOT MIX ASPHALT



LEGEND:

- (No.) CURVE NUMBER
- ESA
- - - TCE
- [Hatched Box] HMA SURFACING
- [Diagonal Lines Box] PREPARE Conc DECK SURFACE & POLYESTER Conc OVERLAY
- [Cross-hatched Box] COLD PLANE AC PAVEMENT OR REMOVE EPOXY AC SURFACING
- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE

CURVE DATA

No.	R	Δ	T	L	N-COORDINATE	E-COORDINATE
①	1070.000	05° 02' 59.970"	47.185	94.309	647836.231	1835069.849

S A N F R A N C I S C O

WESTBOUND ROUTE 80



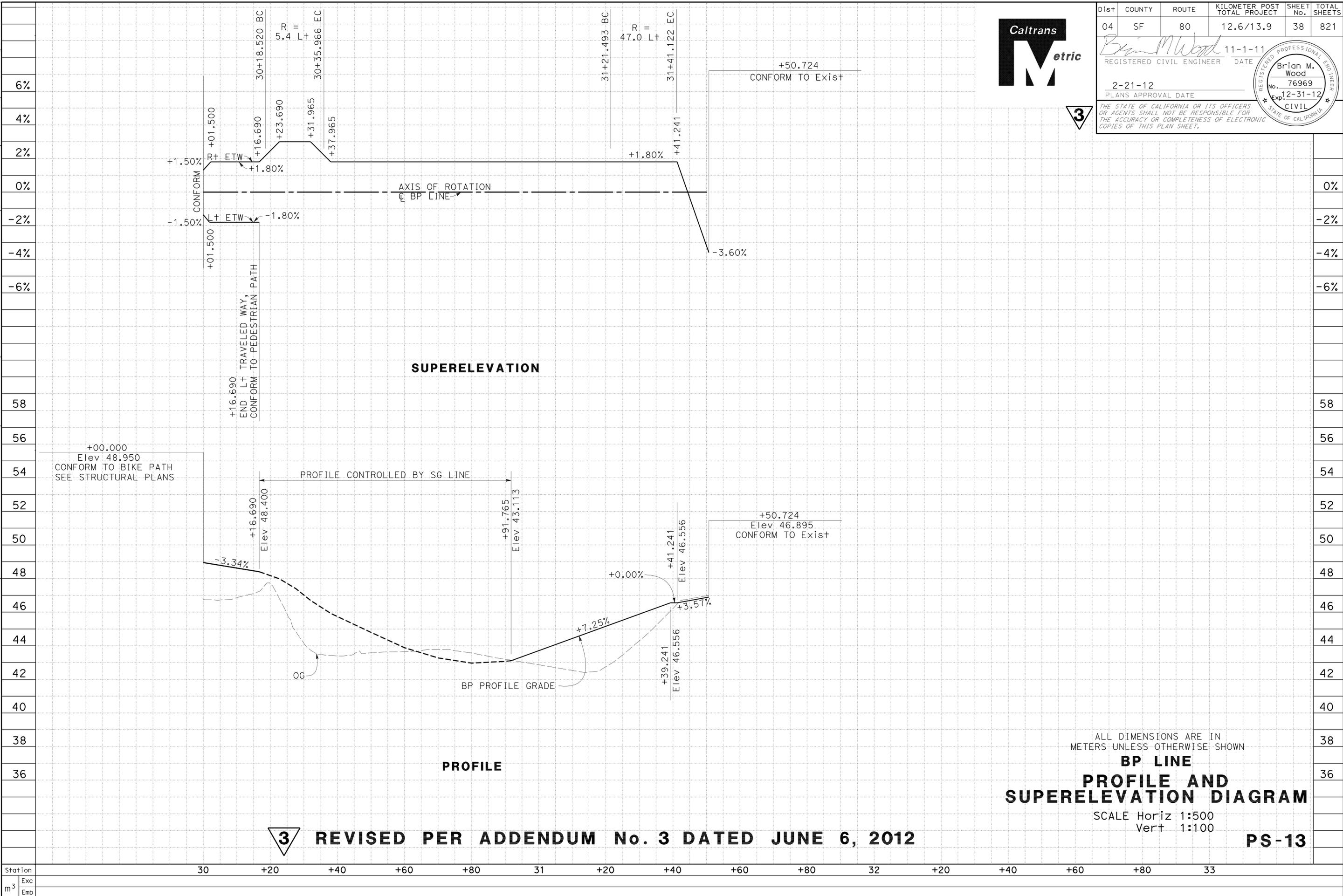
REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

LAYOUT
 SCALE 1:500

L-1



LAST REVISION DATE PLOTTED => 01-JUN-2012
 11-07-11 TIME PLOTTED => 14:45



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	38	821

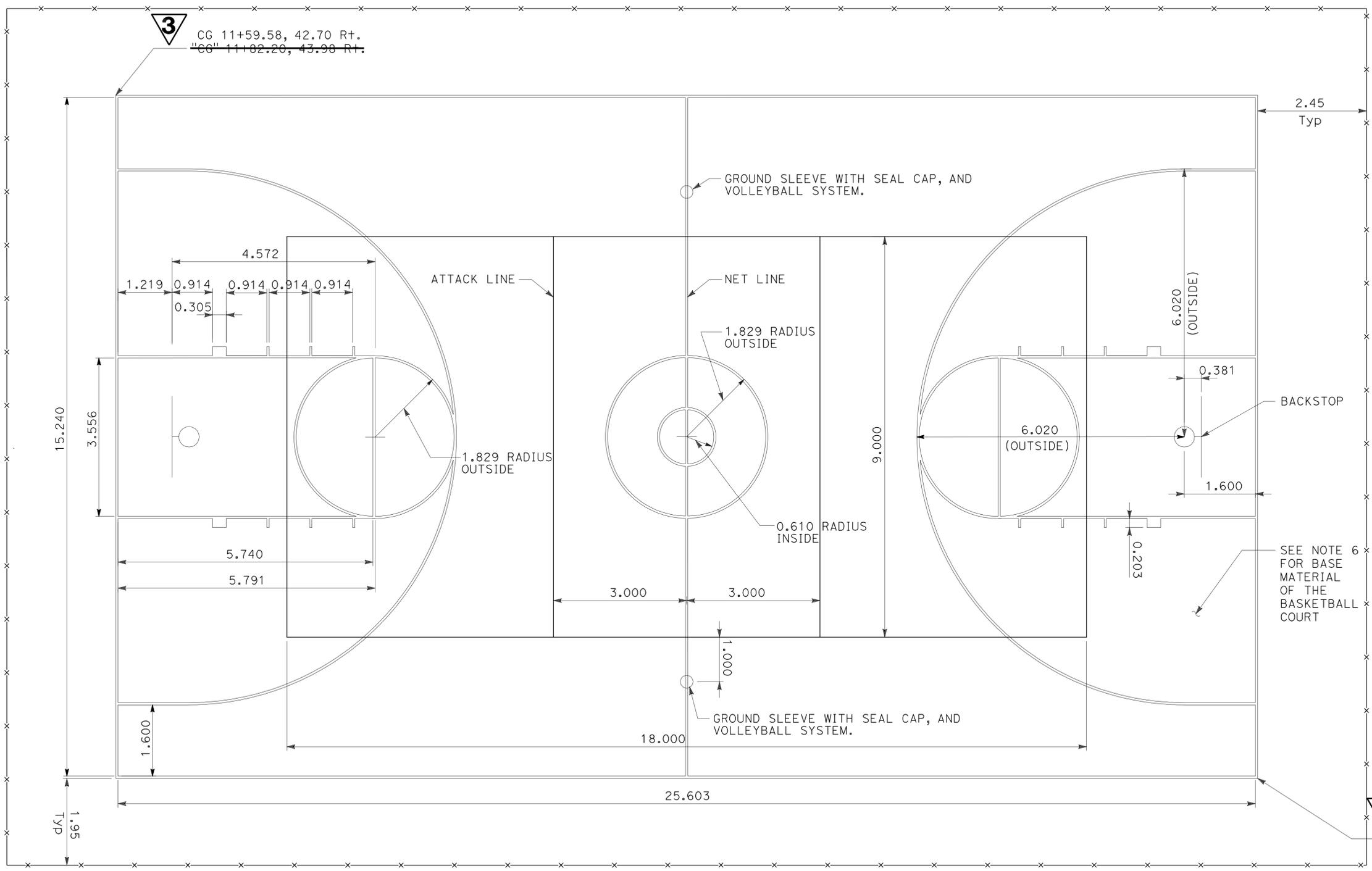
Brian M. Wood 11-1-11
 REGISTERED CIVIL ENGINEER DATE
 2-21-12
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Brian M. Wood
 No. 76969
 Exp. 12-31-12
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 STATE OF CALIFORNIA



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	76	821

REGISTERED CIVIL ENGINEER: *Mark Grodzki*
 DATE: 10/31/11
 PLANS APPROVAL DATE: 2-21-12
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 303 Second St., Suite 700N
 San Francisco, CA 94107-1317



- NOTES:**
- ALL LINES SHALL BE 50 mm WIDE (NEUTRAL ZONES EXCLUDED).
 - END LINES AND SIDELINES SHALL BE A MINIMUM OF 50 mm IN WIDTH.
 - THE THREE-POINT LINE SHALL BE THE SAME COLOR AS THE FREE-THROW LANE LINE AND SEMI-CIRCLE.
 - ALL DIMENSIONS ARE FROM INSIDE TO INSIDE LINES UNLESS OTHERWISE SHOWN.
 - BASKETBALL COURT DIMENSIONS ARE FOR COLLEGE BASKETBALL COURT.
 - STRUCTURAL SECTION OF 100 mm PCC AND 150 mm OF AB C1 4 OVERLAIN BY ACRYLIC RESURFACING COAT, ACRYLIC COLOR FILLER COAT AND ACRYLIC FINISH COAT.

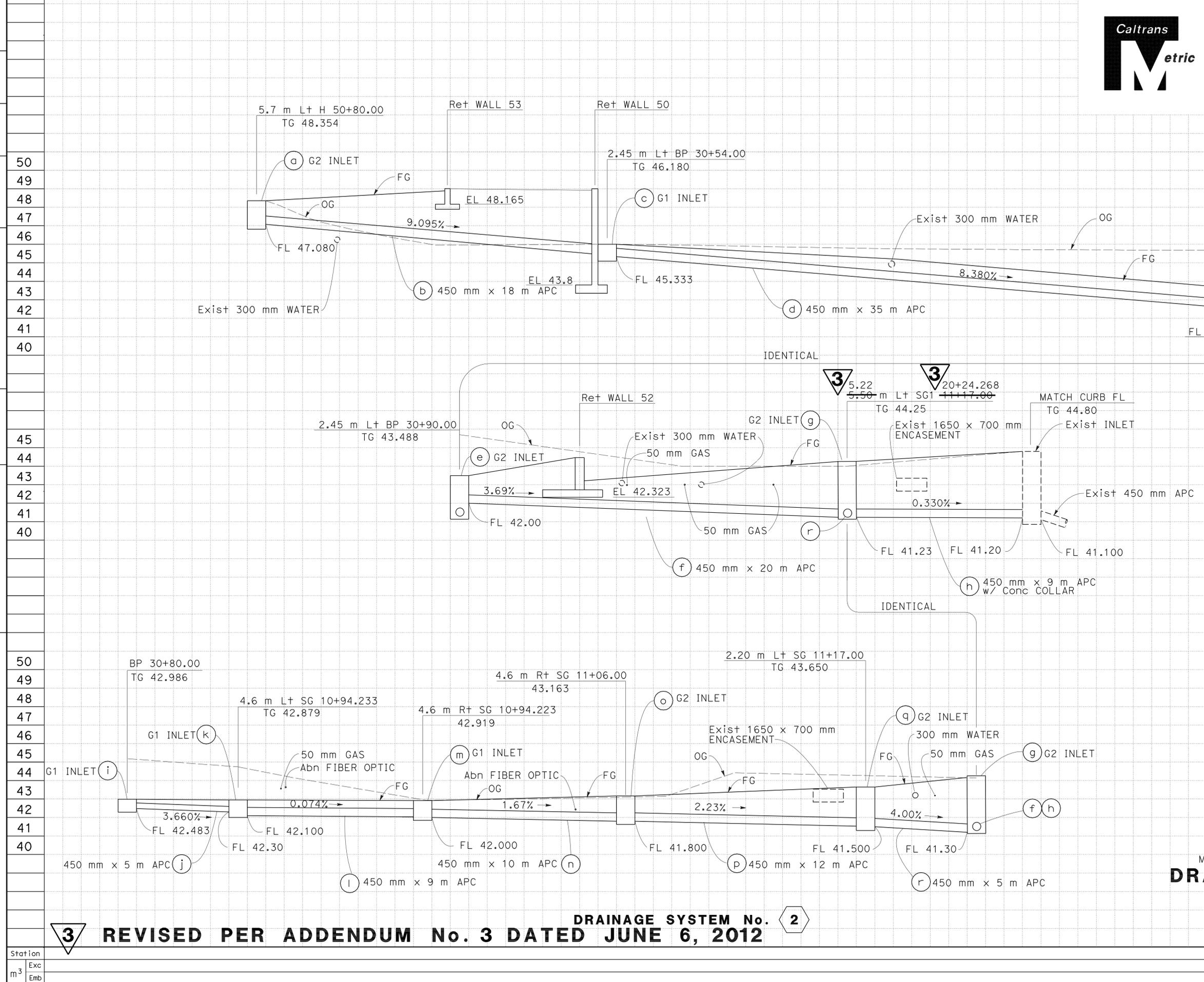
BASKETBALL COURT
PLAN

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
CONSTRUCTION DETAILS
 SCALE 1:50

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

C-38

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	111	821

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

Wen-Shiou Horng
 No. 61135
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

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3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012 **2**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
DRAINAGE PROFILES
 SCALE Horiz 1:100
 Vert 1:100

DP-2

LAST REVISION DATE PLOTTED => 01-JUN-2012
 11-03-11 TIME PLOTTED => 13:19

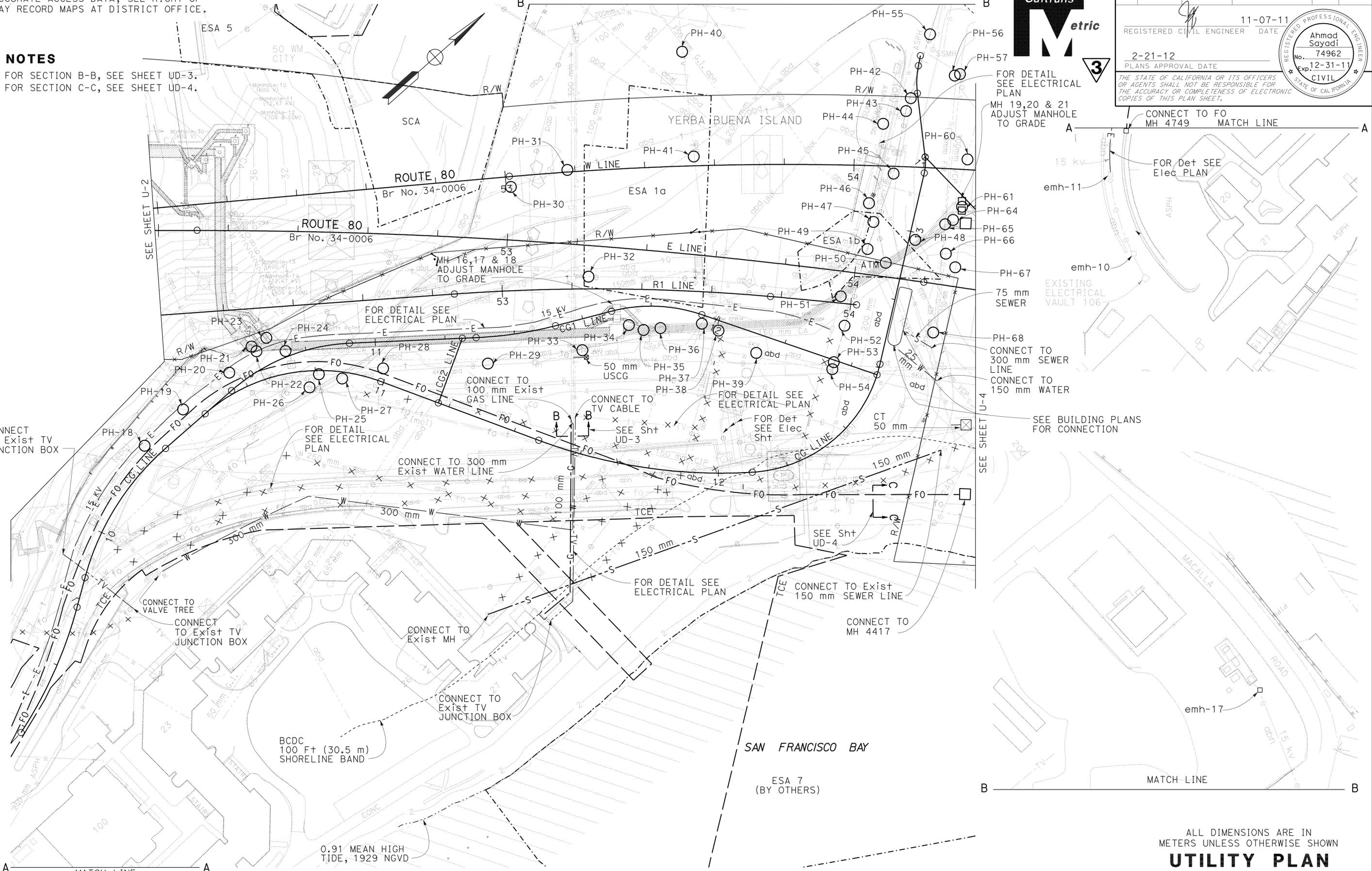
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR: BOB ZANDIPOUR
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 ADAM SAYADI
 AMANDO VITO
 REVISED BY: AS
 DATE REVISED: 11-1-11

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

NOTES

- FOR SECTION B-B, SEE SHEET UD-3.
- FOR SECTION C-C, SEE SHEET UD-4.



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	132	821

11-07-11
 REGISTERED CIVIL ENGINEER DATE
 2-21-12
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 Ahmad Sayadi
 No. 74962
 Exp. 12-31-11
 CIVIL
 STATE OF CALIFORNIA

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

FOR NOTES, ABBREVIATIONS &/OR LEGEND, SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY WORK ONLY

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
UTILITY PLAN
 SCALE 1:500

U-3



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR
 BOB ZANDIPOUR
 CHECKED BY
 M. GRODZKI
 B. NADELL
 DESIGNED BY
 REVISIONS
 DATE
 REVISIONS
 DATE



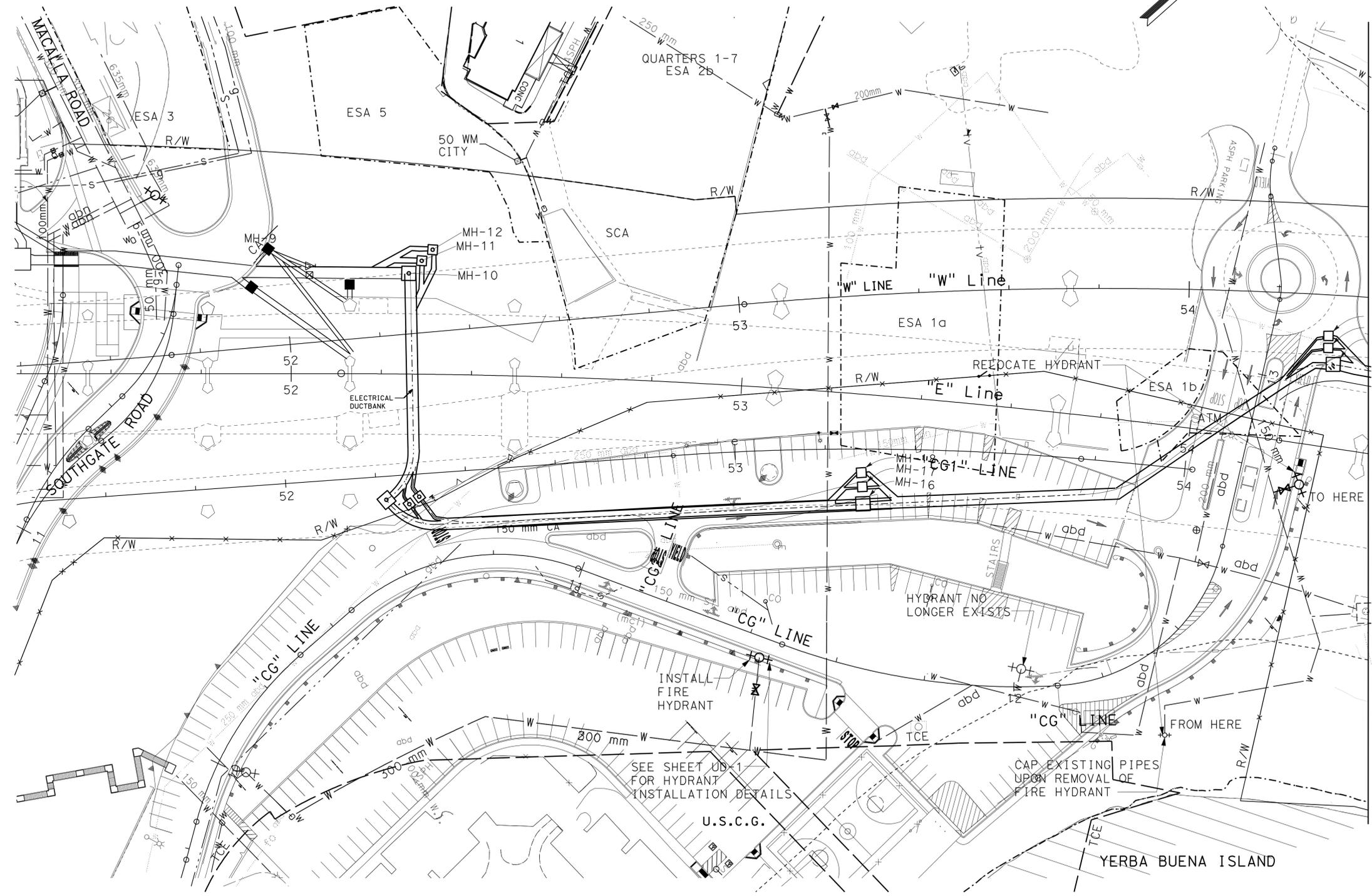
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	137	821

REGISTERED CIVIL ENGINEER
 Mark Grodzki
 No. 65594
 Exp. 09/30/13
 CIVIL
 STATE OF CALIFORNIA

02/03/12
 DATE
 2-21-12
 PLANS APPROVAL DATE

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 303 Second St., Suite 700N
 San Francisco, CA 94107-1317



3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
UTILITY PLAN
FIRE HYDRANT LAYOUT
 SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	ADAM SAYADI	REVISOR	AS
Caltrans	BOB ZANDIPOUR	AMANDO VITO	DATE	11-1-11
DESIGN				



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	143	821

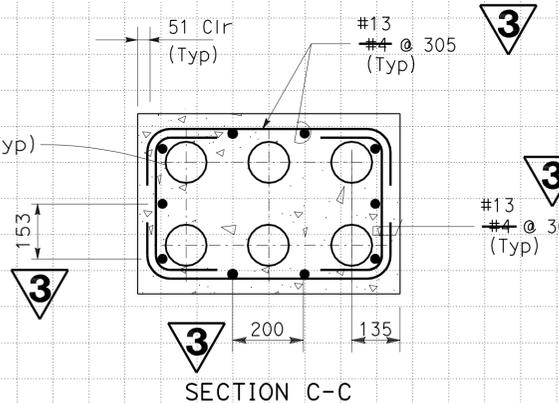
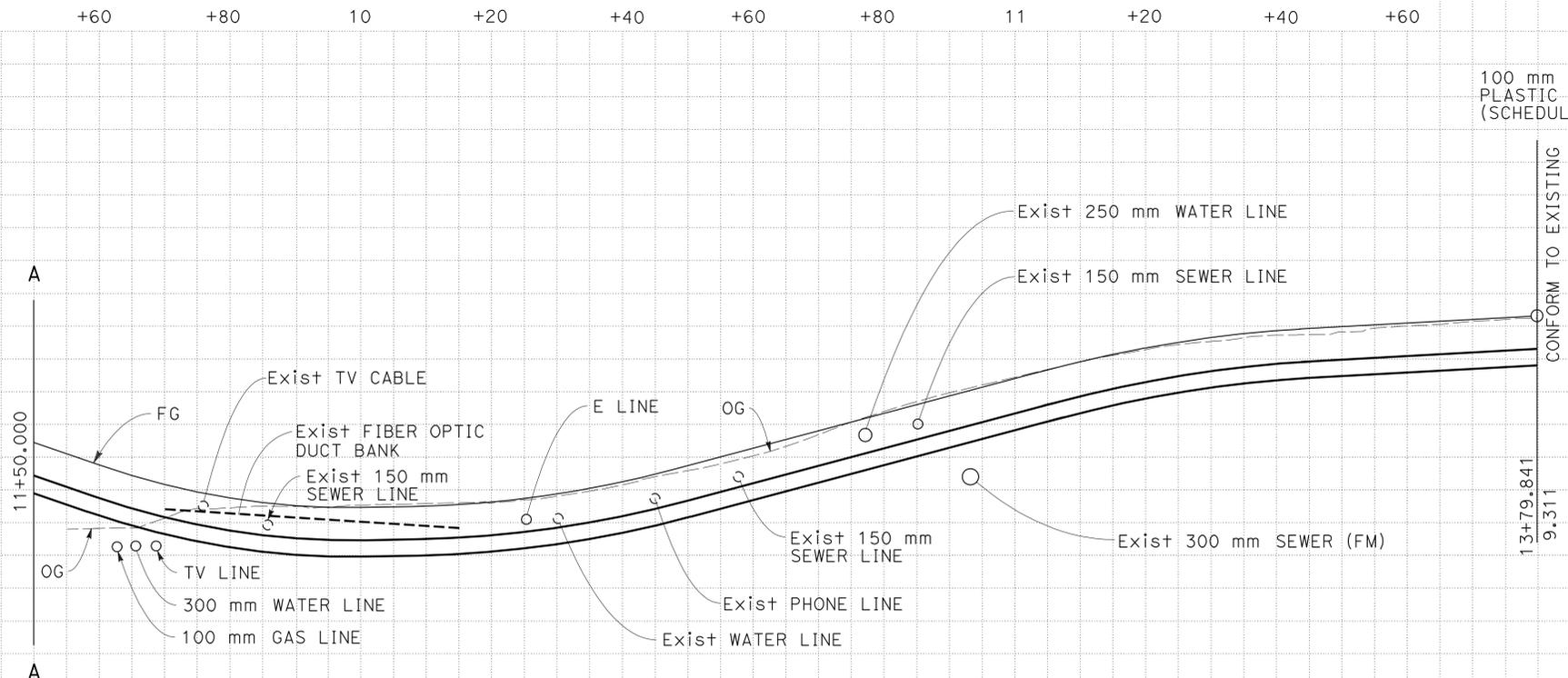
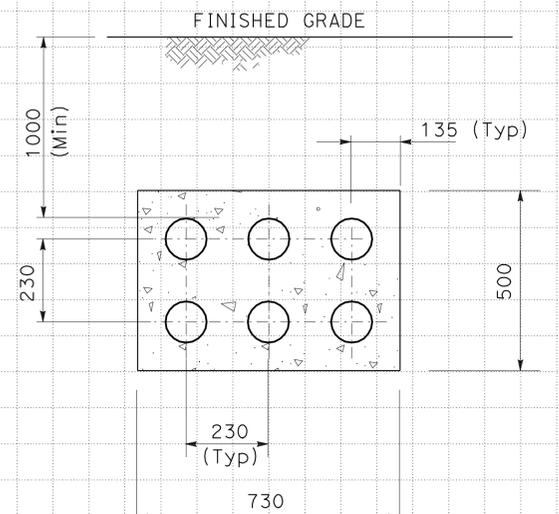
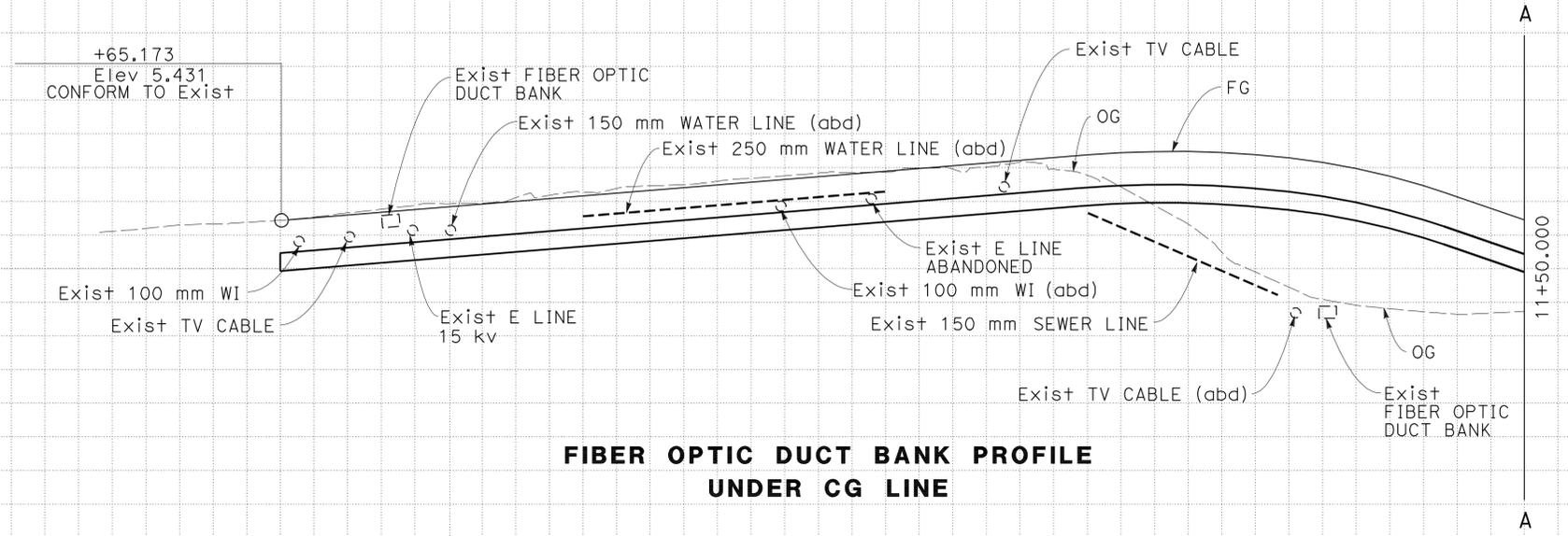
REGISTERED CIVIL ENGINEER DATE 11-07-11

PLANS APPROVAL DATE 2-21-12

Ahmad Sayadi
No. 74962
Exp. 12-31-11
CIVIL

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NOTE: FIBER OPTIC CABLE TO BE INSTALLED BY OTHERS.



FIBER OPTIC DUCT BANK PROFILE UNDER CG LINE

FIBER OPTIC DUCT BANK PROFILE UNDER CG LINE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
UTILITY DETAILS
NO SCALE

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

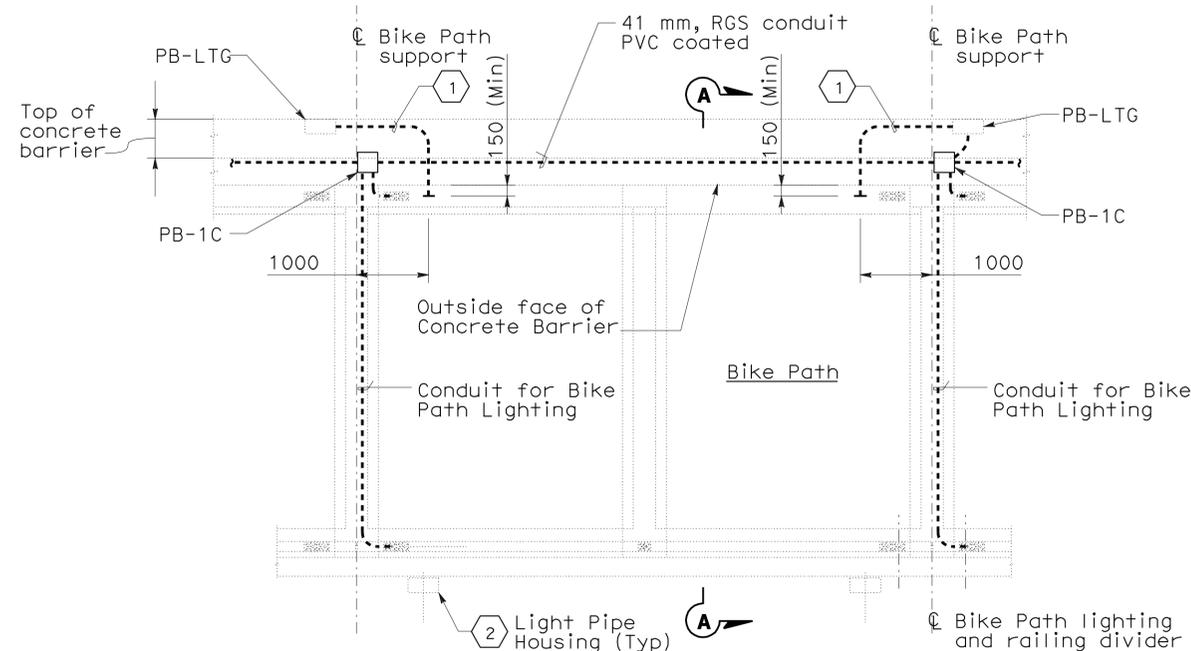
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR: BOB ZANDIPOUR
 REUBEN BUENVIAJE
 J. HALIM, T. WU, W. BECK
 REVISIONS: REVISED BY, DATE REVISED, CALCULATED-DESIGNED BY, CHECKED BY



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	258	821

10/31/11
 REGISTERED ELECTRICAL ENGINEER
 SYN YEE CHIN
 No. 18186
 Exp. 09/30/2013
 ELECTRICAL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.
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 303 Second St., Suite 700N
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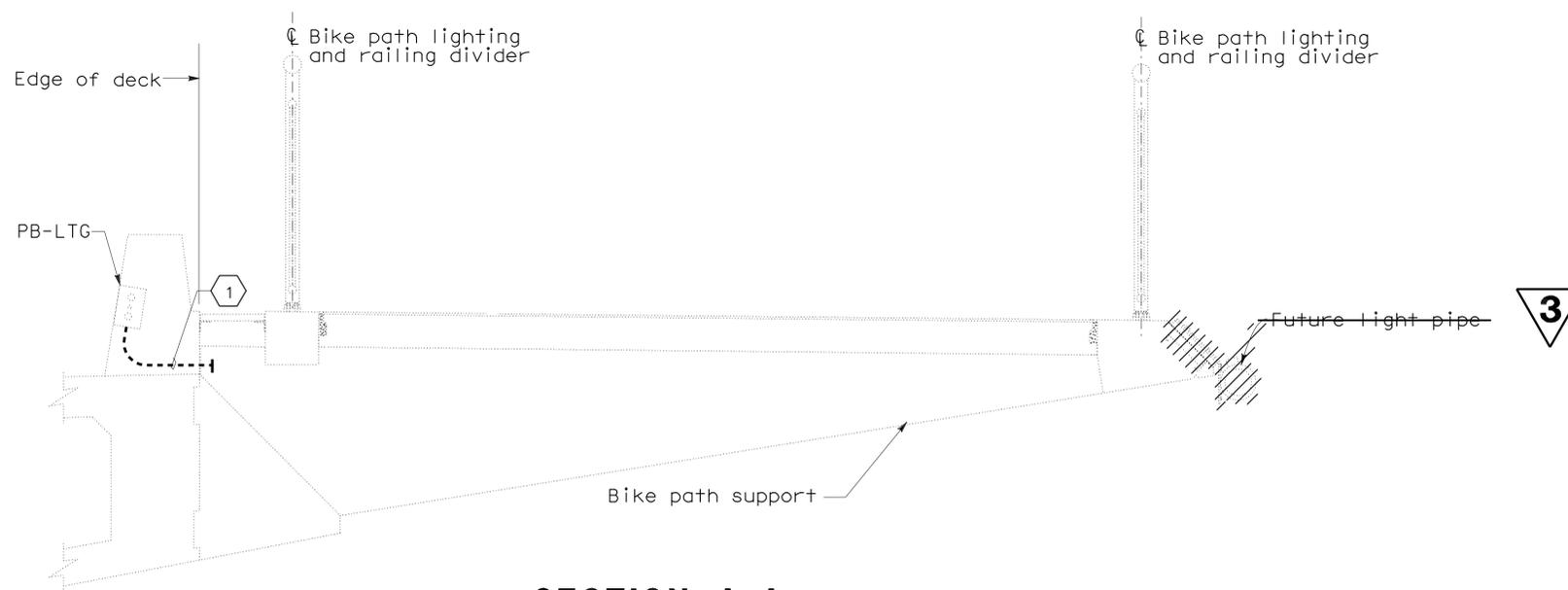
TYPICAL LIGHT PIPE CONDUIT PLAN
 NO SCALE

NOTES:

1. All exposed conduits and fittings installed between the Roadway and the Bike Path shall be PVC coated galvanized steel.
2. For locations of PB-LTG and PB-COM at the Roadway concrete barrier, see sheets E-14 thru E-18.
3. References:
 - For pull box schedule, see sheet E-46.
 - For light pipe wiring diagram, see sheet E-42.
4. Unless shown in bold, everything else is not part of this Contract.

SHEET NOTES:

- 1 Install 21C, RGS conduit from PB-LTG box to outside face of concrete barrier. Cap end of conduit for future use.
- 2 For approximate location of the future light pipe housing, see sheet E-19 and E-20.



SECTION A-A
 SCALE 1:20

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

DETAILS
YBI TRANSITION STRUCTURES
ROADWAY AND GIRDER EASTBOUND
(TYPICAL LIGHT PIPE CONDUIT SECTIONS AND DETAILS)
 SCALE AS NOTED

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

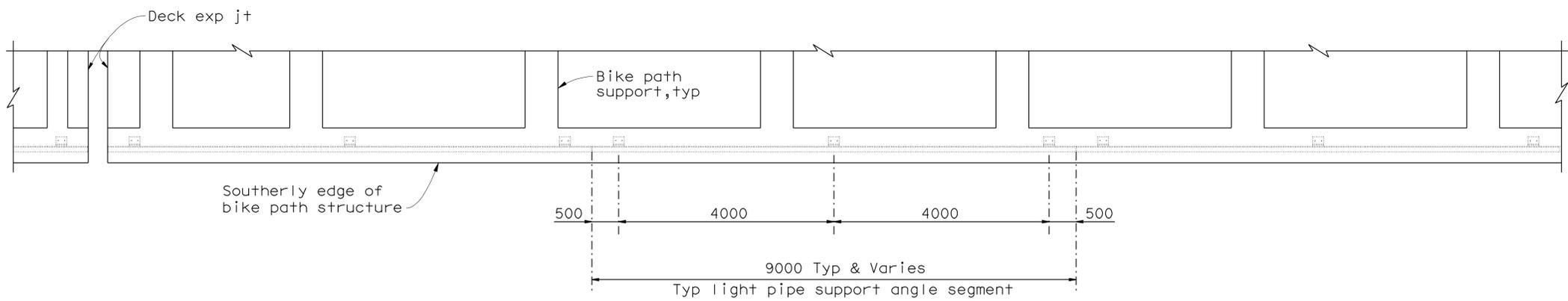
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT - FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	GAM	REVISOR	JNB	JNB
Caltrans	BOB ZANDIPOUR	CHECKED BY	TYL	DATE REVISED	1/31/08	3/17/11



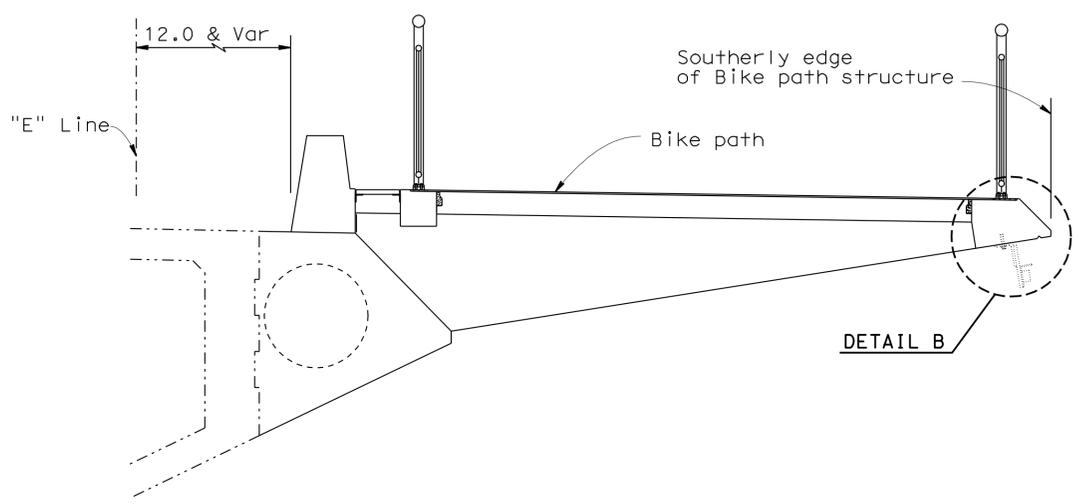
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	259	821

Registered Electrical Engineer: *Tyler Sparks* 11/8/11
 DATE: 11/8/11
 PLANS APPROVAL DATE: 2-21-12
 No. E16039
 Exp. 9-30-13
 ELECTRICAL
 STATE OF CALIFORNIA

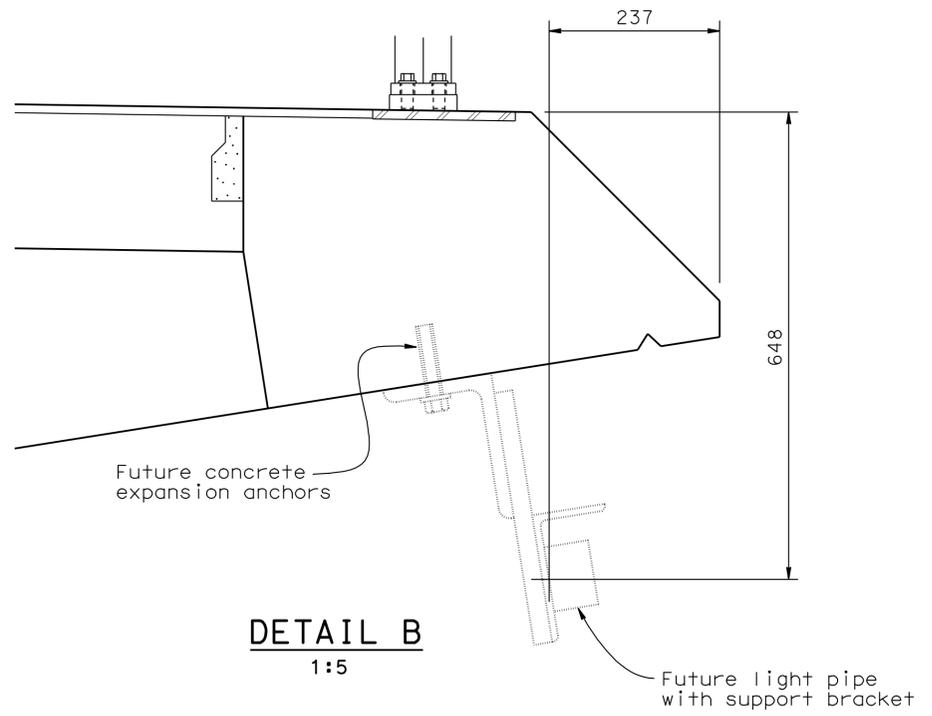
T.Y. LIN / MOFFATT & NICHOL
 TWO HARRISON STREET, SUITE 500
 SAN FRANCISCO, CA 94105



PARTIAL REFLECTED SOFFIT PLAN AT BIKE PATH
1:50



TYPICAL SECTION AT YBI TRANSITION STRUCTURE
(Similar at YBI EB On-Ramp Structure and Retaining Wall No. 50)
1:30



DETAIL B
1:5

DETAILS
YBI TRANSITION STRUCTURES
ROADWAY AND GIRDER EASTBOUND
(TYPICAL LIGHT PIPE INSTALLATION 1)
SCALE AS NOTED

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

E-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT - FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	GAM	REVISOR BY	JNB	JNB
	BOB ZANDIPOUR	CHECKED BY	TYL	DATE REVISED	1/31/08	3/17/11



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	260	821

Tyler Sparks 11/8/11
 REGISTERED ELECTRICAL ENGINEER DATE
 2-21-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 T. W. SPARKS
 No. E16039
 Exp. 9-30-13
 ELECTRICAL
 STATE OF CALIFORNIA

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T.Y. LIN / MOFFATT & NICHOL
 TWO HARRISON STREET, SUITE 500
 SAN FRANCISCO, CA 94105

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DETAILS
YBI TRANSITION STRUCTURES
ROADWAY AND GIRDER EASTBOUND
(TYPICAL LIGHT PIPE INSTALLATION 2)

SCALE AS NOTED

E-32

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT - FUNCTIONAL SUPERVISOR		CALCULATED- DESIGNED BY	GAM	REVISOR BY	JNB	DATE
	BOB ZANDIPOUR					CHECKED BY	
Caltrans	REVISOR BY		DATE	REVISOR BY	DATE	JNB	DATE
	DATE					JNB	



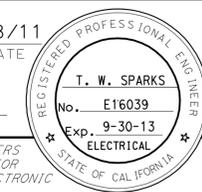
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	261	821

Tyler Sparks 11/8/11
 REGISTERED ELECTRICAL ENGINEER DATE

2-21-12
 PLANS APPROVAL DATE

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T.Y. LIN / MOFFATT & NICHOL
 TWO HARRISON STREET, SUITE 500
 SAN FRANCISCO, CA 94105



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DETAILS
YBI TRANSITION STRUCTURES
ROADWAY AND GIRDER EASTBOUND
(TYPICAL LIGHT PIPE INSTALLATION 3)
 SCALE AS NOTED

E-33

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



DGN FILE => 40120+ua033.dwg
 USERNAME => s123631

CU 04251

EA 0120T1

BORDER LAST REVISED 3/1/2007

LAST REVISION DATE PLOTTED => 01-JUN-2012
 00-00-00 TIME PLOTTED => 17:05

PROJECT NOTES

- 1 Existing 1-103c with 3#2/0 (4.16 kV system); 1-103c with 3#1 (2.4 kV system), 1-103c with 3#1/0 (12.47 kV system), and three 103c spares.
- 2 Install 27C with 2/C+G #10, 600 V insulation (208 V, basketball court).
- 3 Install electrical precast concrete enclosure, 0.9 m x 1.5 m x 1.4 m with full traffic cover and extension as required. See typical section details on EE-43 for more information.
- 4 Install 3-Pole, 3-Way, 200 A, 15 kV oil-insulated sub-surface vacuum switch, in new underground equipment enclosure. See details on EE-42. Provide adequate cable length for termination. Coordinate with the Engineer prior to installation. The Contractor to verify dimensions and adequacy of opening prior to ordering. HHW&P shall make final MV cables termination.
- 5 Install 75kVA pad mount three-phase oil-filled transformer, with radial feed primary switch and internal fusing. Configured for 12.47 kV delta connected primary and 120/208 V wye connected secondary. See Details on EE-44 for more information.
- 6 Existing 78c (Spare).
- 7 Install 1-103C with 3#2/0 (for 4.16 kV system) 15 kV shielded cables type MV-105, 1-103C with 3#1 (for 2.4 kV system) 15 kV shielded cables type MV-105 and 1-103C with 3#3/0 (for 12 kV system) 15 kV shielded cables type MV-105 and 3-103C Spare Conduits in 76 mm minimum concrete encasement. Provide 1#2 insulated ground conductor in each system. See sheet EE-46 for more information.
- 8 Install 3-phase 225 A, 4-wire, 120/208 V, Type III-CF Double metering Service Equipment Enclosure "B". See EE-11 and EE-32 for more wiring diagram and see Caltrans Standard Plans RSP ES-2C and RSP ES-2F. Install 16 mm Dia. x 2.4 M long ground rod.
- 9 Existing 41c, 3#6 (240 V, City Street Lighting)
- 10 Install 103C with 3#3/0 (12.47 kV system) 15 kV shielded cables type MV-105. Provide 1#2 ground conductor, and 1-103C spare.
- 11 Pull MV cables to (E) electrical manhole and coil enough length to extend to each (E) MV load break junction in (E) walk-in vault 106 for HHW&P termination. Coordinate with HHW&P for cable length required.
- 12 Adjust existing pull box/enclosure to new finished grade. Provide new extension ring as needed.
- 13 Install 41C, 3/C+G #6, 600 V (208 V, USCG Street lighting)
- 14 Install 41C, 3/C+G #6, 600 V (208 V, USCG Parking Lot Lighting)
- 15 Install 53C with new coax (TV) cable. Coordinate with COMCAST for requirements.
- 16 Install permanent City of San Francisco standard cobra style street light steel bracket arm (2.4 m) assemblies with 200 watts clear HPS lamp and with 208 V integral HPF ballast. See sheet EE-40 for details. Install new fused splice connector in adjacent pull box, see details on Caltrans Standard RSP ES-11, RSP ES-13A and RSP ES-13B for more information.
- 17 New card reader (Keypad) station on gooseneck pedestal. Similar to project Note 49, except no telephone or intercom station.
- 18 The Contractor to field verify existing conduit routing.
- 19 Install 41C, 2/C+G #6, 600 V (208 V, USCG Street Lighting).
- 20 Install 41C, 2/C+G #10, 600 V (120 V, Irrigation Controller).
- 21 Install 41C, 2/C+G #6, 600 V (208 V, USCG Parking Lot Lighting).
- 22 Existing 78c, (3) RG59U coax cable (Video)
(2) #22/2 twisted pair cable (Data)
(1) #22/2 twisted pair cable (Call signal)
(1) #18/4 twisted pair shielded cable (Audio)
(2) #18/2 cable (Telemetry)
(1) Cable TV cable
- 23 Existing single head 305 mm light emitting diode (LED) warning flasher signal assembly, 120 V.

- 24 Install type 4 conduit (41C) with 2/C+G #6, 600 V (120 V, LED stairs light) between LED power supply and conduit riser.
- 25 Install 63C, (1) 12 fiber multimode 62.5/125 indoor/outdoor fiber optic cable,
(1) 25 pair #22 AWG Cat 3 (telephone cable)
(1) 6 pair #22 AWG shielded speaker cable
- 26 Existing intercom/telephone unit in weatherproof enclosure mounted on heavy duty steel column to match existing.
- 27 The Contractor to provide 6 meters of FO cable length and coil and tie-wrap above existing communication rack. Extend telephone cable to telephone terminal board. USCG will do final terminations.
- 28 Install one new photo-electric unit (PEU) on top of standard. See Caltrans Standard ES-7N for more information.
- 29 For site security fiber optic block diagram, see sheets EE-38 and EE-39 for more information.
- 30 Install and wired barrier Master Control Panel. Panel comes with the vehicle restraint system. Coordinate with USCG for exact location.
- 31 Existing multi functional face/badge reader with two small solid state cameras; one to view the face of the individual seeking access, and the other to view their photo identification badge in weatherproof hood and mounted on heavy duty steel column.
- 32 Install 41C, 2/C+G #6, 600 V (208 V, City Street Lighting).
- 33 Install 483 mm square extruded LED pole mounted luminaire with 9,641 lumens, with Type IV distribution, 110 watts LED, on 120 mm square steel pole, square base cover, similar or equal to "Gardco # EH19L-1-4-110LA-NW-UNIV" with clear flat glass lens, "Lithonia CSX1 LED-2-30B530/40K-SR4-208-SPA-DF" or "Acculite SS2-B12-4K-208-FT-f2"UL listed for wet location. Light pole mounted on 1.2 m elevated concrete foundation. See Detail 2 and Detail 4 on sheet EE-41.
- 34 Install 21C, 2#12 + 1#12G (120 V, Carport Lighting)
- 35 Pull MV cables to (E) electrical manhole and coil enough length to extend to existing vacuum switches for HHW&P termination. Coordinate with HHW&P for overall cable length required.
- 36 Install fused splice connector in pull box. See Caltrans Standard Plans RSP ES-13A and RSP ES-13B for splicing, and fuse rating details.
- 37 Coordinate with U.S. Coast Guard and the Engineer for exact location.
- 38 Install 27C, 4/C+G #10, 600 V (208 V, Basketball Court Lighting).
- 39 See Partial One Line Diagram on EE-30 for more information.
- 40 Existing electrical equipment shall be maintained in effective operation until replacement equipment is installed and functional.
- 41 Install Type 1B Standard with one PEU. See Caltrans Standard Plans RSP ES-7B and ES-7N for details. Coordinate with the Engineer for exact location prior to installation.
- 42 Install 41C, 3#14 (120 V, PEU).
- 43 Existing 75 kVA Pad Mount Transformer and 200 A, 120/208 V, 3-Phase Service Pedestal.
- 44 Install 41C, 4/C+G, #4, 600 V (120/208 V, Ground Retractable (Active) Vehicle Barrier System control panel)
- 45 Install two heads pole mounted area flood light fixture. Tilt fixture 30 degrees, see Detail 5 on EE-41 for more information.
- 46 Existing 41c, telephone cable (10#24 AWG).
- 47 Existing 41c, 3#1/0 (208 V, 3-Phase, Lift Pump-41).
- 48 Install 41C, 4/C #2 +1#6 G, 600 V (120/208 V New permanent USCG guard booth electrical Panel-G).
- 49 Install intercom/video station with proximity card reader in weatherproof hood and mounted on heavy duty steel gooseneck pedestal. Note: Card reader and its power (120 V) will be installed by USCG. See sheet EE-38 for more information.

- 50 Install 35C, 2#10+G (120 V, gate operator).
- 51 Install 41C, 4/C+G #10, 600 V (208 V, Basketball Court Lighting) 3/C+G #14, 600 V (120 V, Lighting PEU)
- 52 Install 41C, 2/C+G #6, 600 V (208 V, Basketball Court Lighting)
- 53 Install 41C, 3/C+G #6, 600 V (208 V, USCG Parking Lot Lighting) 2/C+G #6, 600 V (208 V, Basketball Court Lighting)
- 54 Provide protection to existing conduit/electrical equipment and wire during construction.
- 55 Existing 200 Ampere, 120/208 V, 3-phase, 4-wire service pedestal.
- 56 Install 41C with 3/C+G #1/0, 600 V (to existing 208 V, 3-Phase, Pump Station #41)
- 57 Irrigation Controller. For exact location, coordinate with the Engineer prior to installation.
- 58 Install electrical precast concrete enclosure similar to Project Note #3 except 1.4 m x 2.6 m x 1.8 m (Inside Dimensions) with full traffic cover and extension as required. (PG&E #04-0324)
- 59 Existing 41c, (telemetry) with two communication cables, each with 12#18 AWG.
- 60 Existing 41c, 3#2.
- 61 Install pole mounted light fixture with opal glass lens, 70 W HPS lamp, 355 mm flared bell shape hood. Fixture shall be pole-arm mount on 180° curved arm on 102 mm round aluminum pole. Fixture shall be "Architectural Area Lighting #UCM-ANG-AOL-70HPS-SLA4-PR4-4R10" or "Antique Street Lamps EM25ST GCSG series", 208 V. See Detail 1 on sheet EE-41 for more information.
- 62 Install 41C, 2#10+G, 600 V (120 V, Entry Gate Operator) 2#10+G, 600 V (120 V, Exit Gate Operator) 2#10+G, 600 V (120 V, Carport & Light pole Lighting) 2#10+G, 600 V (120 V, Irrigation Controller)
- 63 Install 41C, two #18/2 (Telemetry) cable.
- 64 New Ground Retractable (Active) Vehicle Barrier System installed by others. See sheet EE-39 for more information.
- 65 Remove existing communication cables except two telemetry cable (12/C #18 AWG) and Cable TV to remain in place and functional when new security system is installed and functional.
- 66 Conduit run in concrete barrier. See Caltrans Standard Plan RSP ES-9C.
- 67 The Contractor to install new State furnished pentagonal shape light pole with fixture on concrete barrier. See EE-52 for light pole anchorage detail.



Dist	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9		322	821
				05/17/12		
				REGISTERED ELECTRICAL ENGINEER		
				PLANS APPROVAL DATE		
				THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.		
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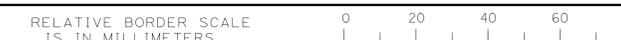
**REVISED PER ADDENDUM No. 3
DATED JUNE 6, 2012**

**YBI ELECTRICAL UTILITY RELOCATIONS
PROJECT NOTES SHEET 1 OF 2**

NO SCALE

EE-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT: FUNCTIONAL SUPERVISOR
 BEN JUDILLA
 CAROL LIGHT
 BOB ZANDIPOUR
 REVISIONS: 00-00-00 TIME PLOTTED => 17:05



PROJECT NOTES

- 68 Install 110 watt, LED surface mounted soffit luminaire with rugged die cast aluminum housing with LED light driver. Fixture shall be similar to or equal to "EMCO ELG-5-110LA-NW-480- NP" by Philips Gardco or "LSI XPG series". Mount fixture to a flush mounted standard 102 mm J-box on the lower deck structure. Install new type 7 pull box adjacent to new luminaire. See Detail F on Caltrans standard ES-9E for junction box installation.
- 69 Install 1/2 hp, 120 V swing gate operator. Operator shall be with intelligent circuit board, with integral over current load protection. Electronic inputs, magnetic lock, reversing sensors, alarm contacts and non-scissors action arm. Install all necessary hardware for complete installation.
- 70 Install 41C, 3/C+G #6, 600 V (480 V, Lighting)
- 71 Existing 41c, with 3#2/0 (120/240 V, HHW&P Power to Building #8).
- 72 Install 63C with 12 fiber multi-mode (62.5/125) indoor/outdoor fiber optic cable and one 25 pair #22 AWG Cat 3 (telephone), and one 6 pair stranded #22 AWG speaker cable and two #18/2 telemetry cable.
- 73 Carefully chip-off existing slurry and encase existing duct bank with 76 mm min. reinforced concrete (28 MPa min.). See sheet EE-46 for more information.
- 74 Install 3#2/0 (for 4.16 kV system) 15 kV shielded cables type MV-105, 3#1 (for 2.4 kV system) 15 kV shielded cables type MV-105 and 3#3/0 (for 12 kV system) 15 kV shielded cables type MV-105 in existing three 103 spare conduits. Provide 1#2 insulated ground conductor in each system. See one-line diagram on EE-30 for more information.
- 75 Install 53C, 3/C+G #2, 600 V (120/208 V, HHW&P power to service equipment cabinet)
- 76 Install Type III-AF service equipment enclosure A on new foundation. Door shall face north. For enclosure details, see Caltrans Standard Plans RSP ES-2C, RSP ES-2D and sheet EE-34. Install 16 mm Dia. x 2.4 m long ground rod.
- 77 Install precast concrete electrical pull box, 622 W x 914 L x depth as required, similar or equal to "Christy N40" box.
- 78 Install and route conduit below deck. Provide conduit support every 1.5 meter max.
- 79 Install Single Head 300 mm Yellow Light Emitting Diode (LED) advance flashing signal assembly, 120 V. See Caltrans drawings EE3-1, EE3-2 and Detail 4 on Caltrans EE3-7 drawing for more information.
- 80 Install 41C, 2/C+G #6, 600 V (120 V, LED quarters 9 LED Stair Lighting).
- 81 Remove and salvage existing service equipment enclosure. Demolish existing concrete foundation. Restore grade to match existing.
- 82 Install 41C, 2/C+G #6, 600 V (208 V, City Street Lighting) 2/C+G #10, 600 V (120 V, Irrigation)
- 83 Install 3/C+G #6, 600 V (480 V, soffit lighting). Conduit installed under YBI1 contract.
- 84 Conduit installed in eastbound structure under YBI1 contract.
- 85 Intercept conduit and extend to new pull box.
- 86 Install 53C, 3/C+G #6, 600 V (208 V, USCG Street Lighting). 3/C+G #6, 600 V (208 V, USCG Parking Lot Lighting) 53C, 2/C+G #6, 600 V (120 V, USCG LED Stairs Lighting) 2/C+G #6, 600 V (208 V, USCG Basketball Court Lighting) 2/C+G #10, 600 V (120 V, Irrigation)
- 87 Install 41C, 2/C+G #6, 600 V (240 V, City Street Lighting).
- 88 Install 53C, 3/C+G #6, 600 V (208 V, USCG Street Lighting). 3/C+G #6, 600 V (208 V, USCG Parking Lot Lighting) 41C, 2/C+G #6, 600 V (208 V, USCG Basketball Court Lighting) 2/C+G #10, 600 V (120 V, Irrigation)
- 89 Install 41C, 3/C+G #6, 600 V (208 V, USCG Street Lighting). 2/C+G #6, 600 V (120 V, USCG LED Stairs Lighting)
- 90 Install 483 mm square extruded LED pole mounted luminaire, with 13,698 lumens, with type IV distribution, 160 watt LED, universal voltage on 120 mm square steel pole, square base cover, "Gardco EH19L-1-4-160LA-UNIV-NW" with clear flat glass lens, "Lithonia CSX2 LED-3-30B530/40K-SR4-208-SPA-DF" or Acculite "LS2-B24-4K-208-FT-F2". UL listed for wet location. Light pole mounted on 0.762 m elevated concrete foundation. See Details 3 and 4 on sheet EE-41.
- 91 Install 41C, 2#10+G, 600 V (120 V, Entry Gate Operator) 2#10+G, 600 V (120 V, Exit Gate Operator).

- 92 Install 12 fiber multimode (62.5/125) indoor/outdoor fiber optic cable and one 25 pair #22 AWG Cat 3 (telephone), and one 6 pair stranded 22 AWG speaker cable in existing conduit (78c).
- 93 Disconnect and remove (E) LED light fixtures including related power cord, power supply and conduit to accommodate the removal of one flight of existing stairs. Store fixtures and power supply in safe place. Reinstall said light fixtures back to its original state when new replacement of stairs is constructed.
- 94 Install new heavy duty surface mounted radial lens luminaire under canopy. Aluminum body, instant-start electronic ballast, two T8 lamps, 120 V and with high impact white acrylic diffuser. Fixture shall be similar or equal to "Prudential P5160-2TB-04-HWA-TMW-120-AL" or "Metalux VRVT2 series". Light fixture shall be controlled by photo electric unit mounted on the front face of the roof.
- 95 Install new 12 circuit, 100 Amp bus, single phase, 3-wire, 120/240 V, panel board. Provide 60 Amp-2 pole main breaker and six 20 Amp-1 pole branch circuit breakers. Mount adjacent to existing main disconnect.
- 96 Install Single Head 300 mm Red Light Emitting Diode (LED) advance flashing signal assembly, 120 V. See Caltrans drawings EE3-1 and Detail 3 on Caltrans drawing EE3-7 for more information.
- 97 Install 41C, 2/C+G #6, 600 V (208 V, USCG Street Lighting).
- 98 Install 41C, 3#10+G, 600 V (120 V, Entry & Exit Gate Operators). 2#10+G, 600 V (120 V, Carport Lighting & Light Pole)
- 99 Install 53C, 3/C+G #8, 600 V (120 V, Existing Switchgear Space Heaters). 3/C+G #6, 600 V (208 V, Utility Yard Lighting) 2/C+G #6, 600 V (208 V, City Street Lighting) 2/C+G #10, 600 V (120 V, Irrigation)
- 100 At existing Panel-UP001, connect 2/C, #10 +G (120 V, Irrigation) to existing 20 A-1P spare circuit breaker #22. Provide new revised (TYPE) panel schedule.
- 101 Similar to Project Note #33 except 120 Volt.
- 102 Install 53C, 3/C+G #8, 600 V (120 V, Existing switchgear space heater). 3/C+G #6, 600 V (208 V, Utility yard lighting)
- 103 Disconnect existing luminaire from (E) 120 V system and replace 120 V integral ballast to match new 208 V lighting system voltage.



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	323	821

05/17/12
REGISTERED ELECTRICAL ENGINEER
CAROL LIGHT
No. 10145
Exp. 09/30/13
ELECTRICAL
STATE OF CALIFORNIA

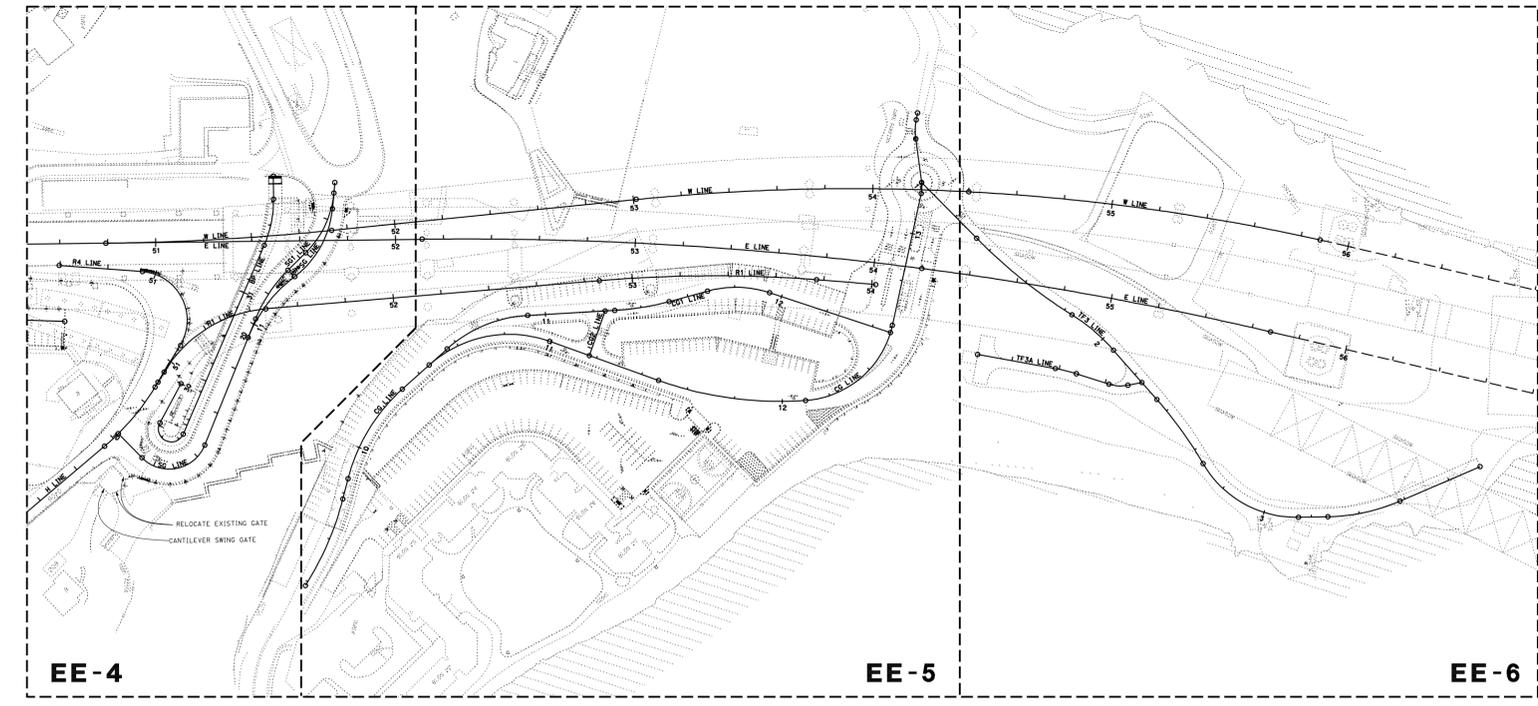
PLANS APPROVAL DATE

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1201 PARK AVE., SUITE 100
EMERYVILLE, CA 94608-3632

- 104 Install one 53C spare conduit into existing manhole (MH-3) for future F0 cable.
- 105 Install one 53C spare conduit into existing manhole (MH-2) for future 120 V power.



KEY PLAN

SCALE: 1:1500



REVISION No. 3 DATED JUNE 6, 2012
YBI ELECTRICAL UTILITY RELOCATION
PROJECT NOTES SHEET 2 OF 2 AND KEY PLAN
SCALE AS NOTED

EE-3

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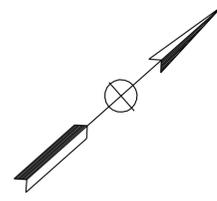
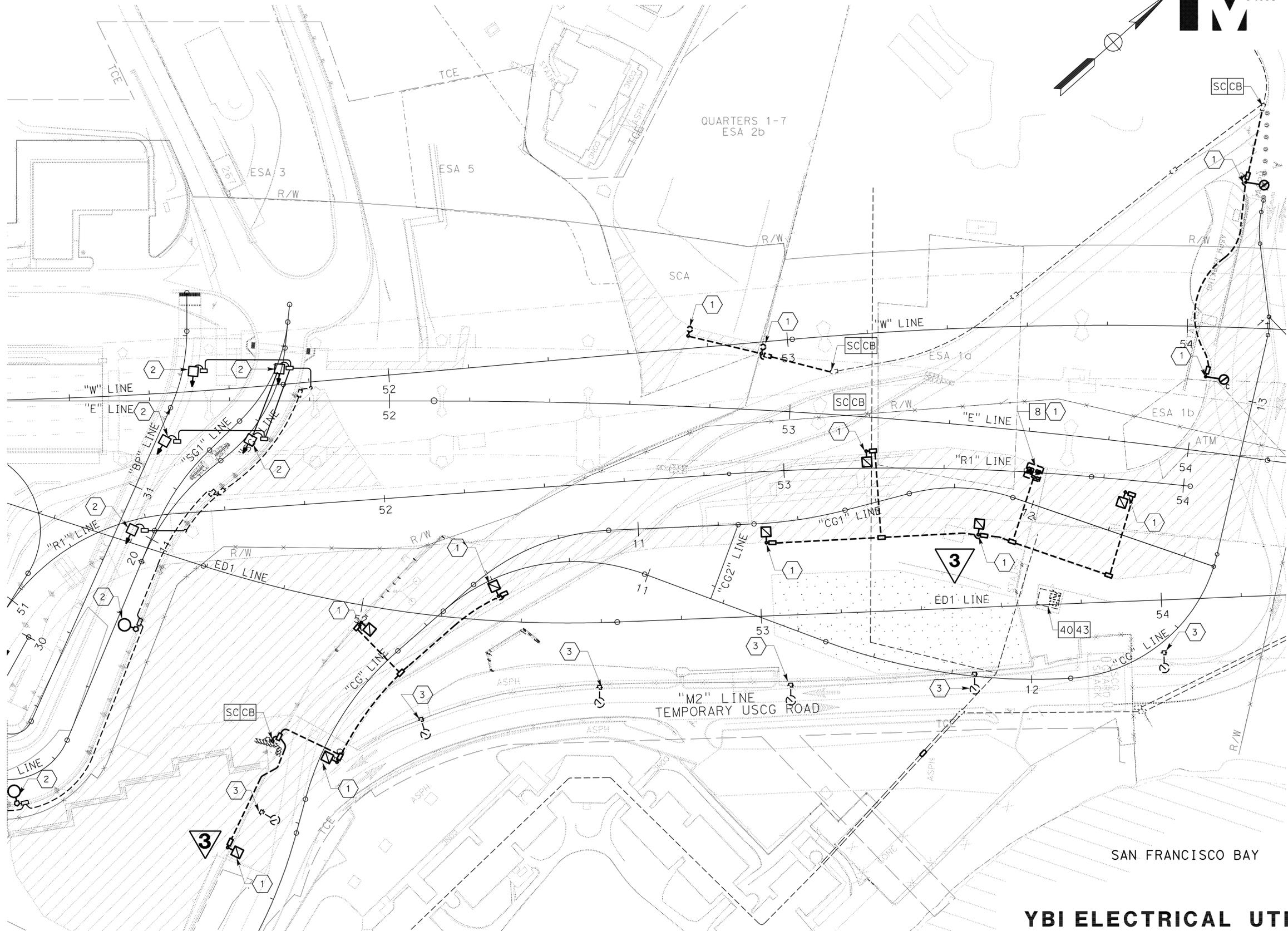
CU 04251

EA 0120T1

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 Caltrans
 CONSULTANT SUPERVISOR: BOB ZANDIPOUR
 CHECKED BY: [blank]
 CALCULATED/DESIGNED BY: [blank]
 BEN JUDILLA
 CAROL LIGHT
 REVISOR: [blank]
 DATE REVISED: [blank]

LAST REVISION DATE PLOTTED => 01-JUN-2012
 00-00-00 TIME PLOTTED => 17:06

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Caltrans
 CONSULTANT FUNCTIONAL SUPERVISOR
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 CAROL LIGHT
 REVISED BY
 BEN JUDILLA
 DATE REVISED



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	339	821

05/17/12
 REGISTERED ELECTRICAL ENGINEER
 CAROL LIGHT
 No. 10145
 Exp. 09/30/13
 ELECTRICAL
 STATE OF CALIFORNIA

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 EMERYVILLE, CA 94608-3632

- SHEET NOTES:**
- 1 Install permanent luminaire, equipment, conduit and pull box as shown on contract plans, and energize when directed by the Engineer. See respective plans EE-4, EE-5 and EE-6 for location, project notes and other permanent equipment.
 - 2 Permanent electrolier installed during stage 3 phase 2 construction.
 - 3 Existing USCG light pole in existing lighting system to be used during stage construction. Remove when directed by the Engineer.

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

**YBI ELECTRICAL UTILITY RELOCATIONS
 STAGE CONSTRUCTION
 STAGE 4 PHASE 1**

SCALE: 1:500

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CU 04251

EA 0120T1

EE-19

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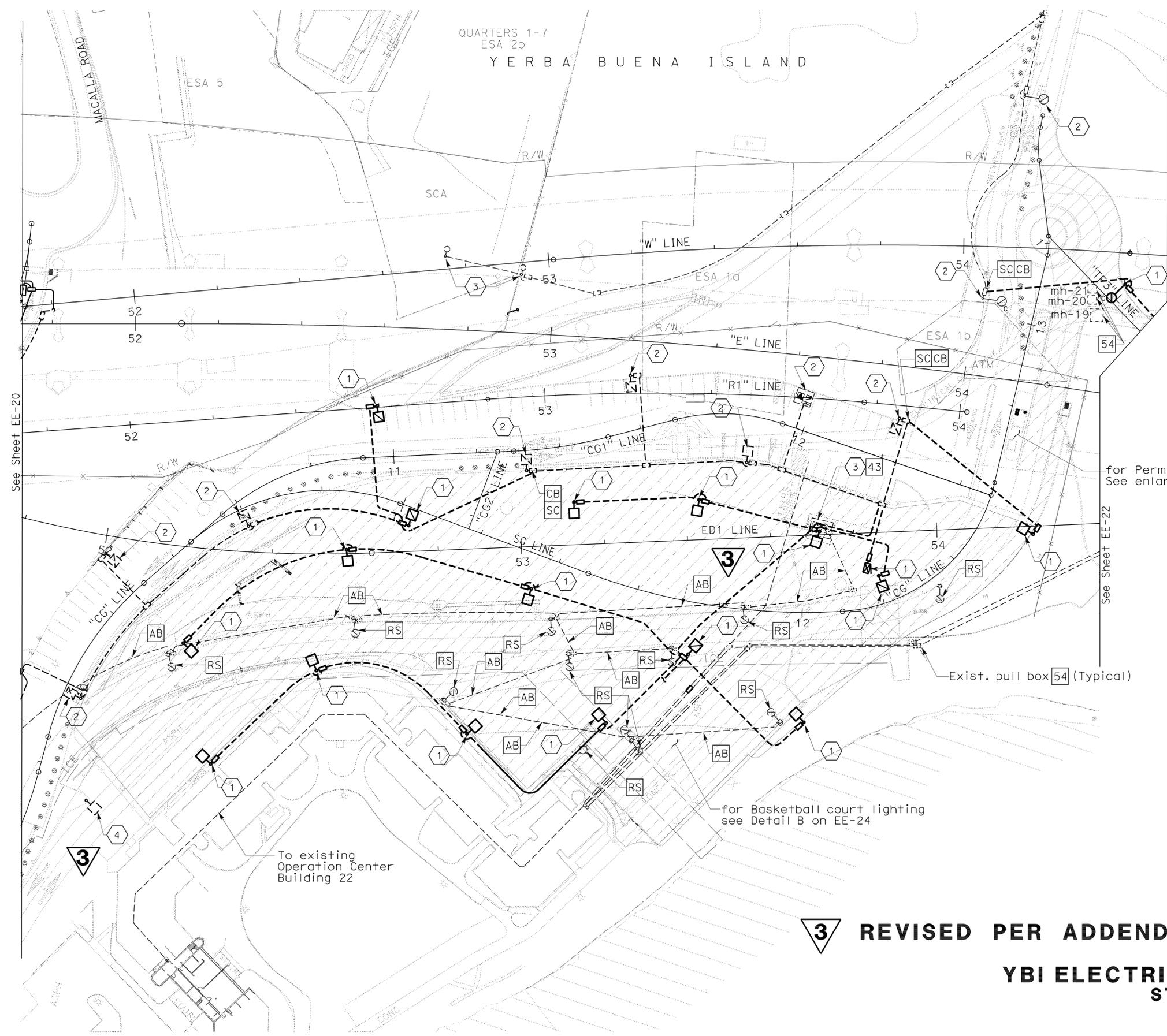
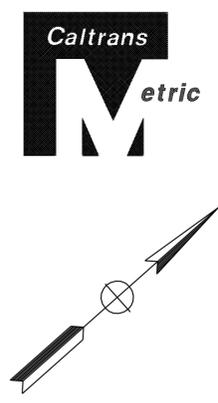
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- SHEET NOTES:**
- 1 Install permanent luminaire, equipment, conduit and pull box as shown on contract plans, and energize when directed by the Engineer. See respective plans EE-4, EE-5 and EE-6 for location, notes and other permanent equipment.
 - 2 Installed during Stage 4 phase 1 construction.
 - 3 Remove and turn-over existing equipment to HHW&P. Remove existing foundation and remove existing pull boxes at the end of Stage 2-phase 1 construction.
 - 4 Existing light pole to remain in place and operational. Provide protection during construction.

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

YBI ELECTRICAL UTILITY RELOCATIONS
STAGE CONSTRUCTION
STAGE 4 PHASE 2
SHEET 2 OF 3
 SCALE: 1:500

REVISOR BY
 DATE REVISED

BEN JUDILLA
 CAROL LIGHT

CALCULATED-DESIGNED BY
 CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
 BOB ZANDIPOUR

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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05/17/12
 REGISTERED ELECTRICAL ENGINEER
 2-21-12
 PLANS APPROVAL DATE

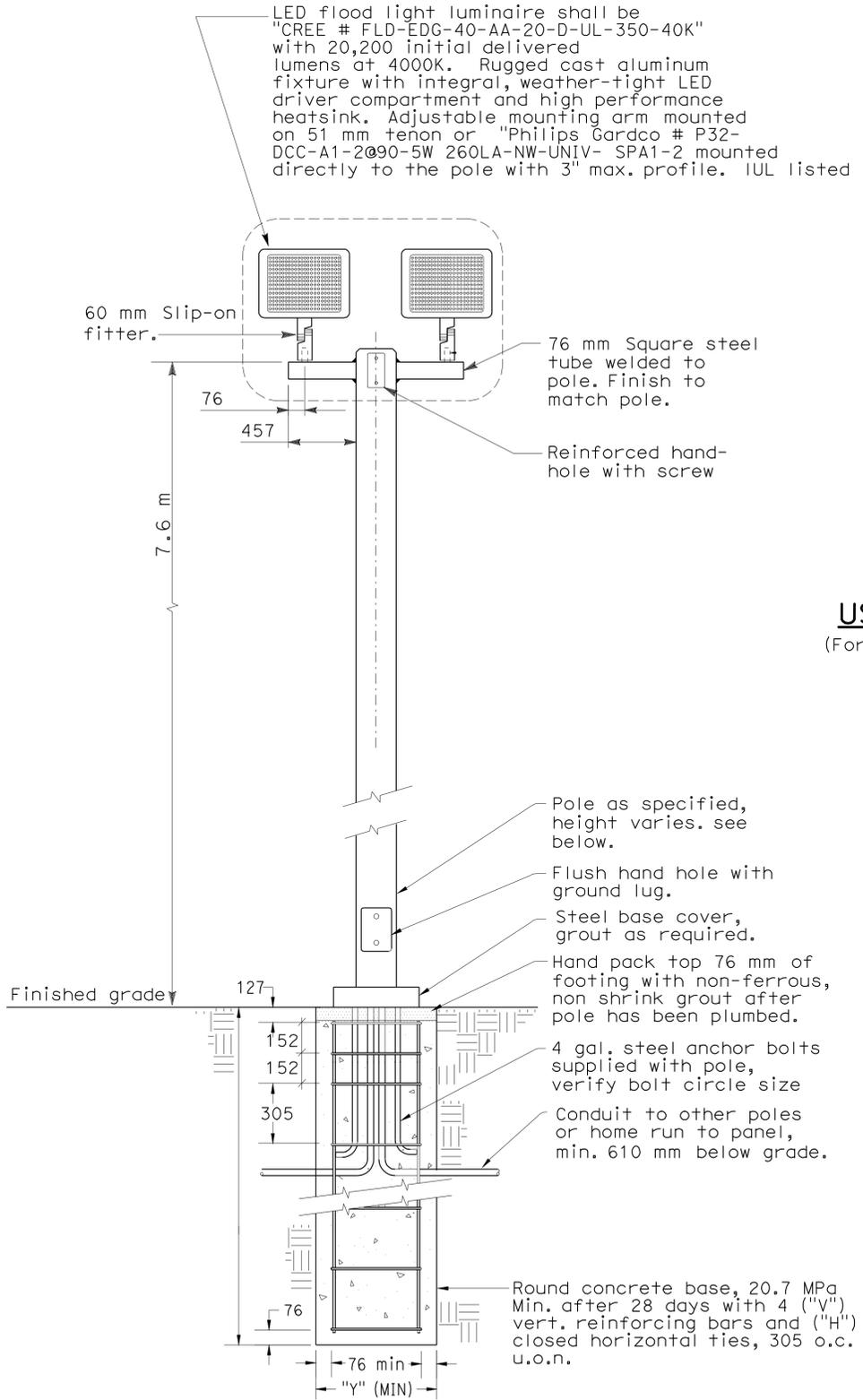
Caltrans
Metric

REGISTERED PROFESSIONAL ENGINEER
 CAROL LIGHT
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 Exp. 09/30/13
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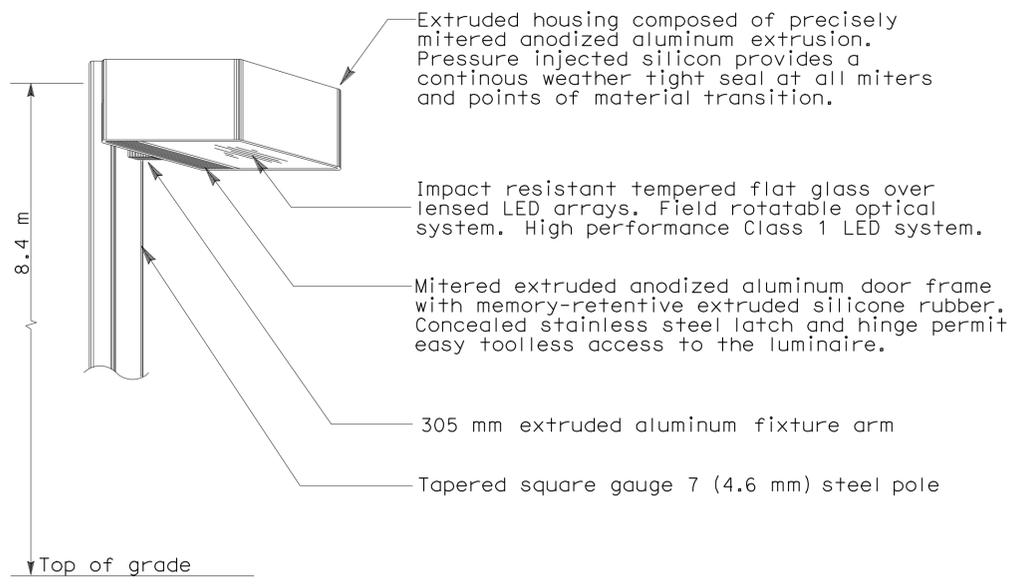
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 1201 PARK AVE., SUITE 100
 EMERYVILLE, CA 94608-3632

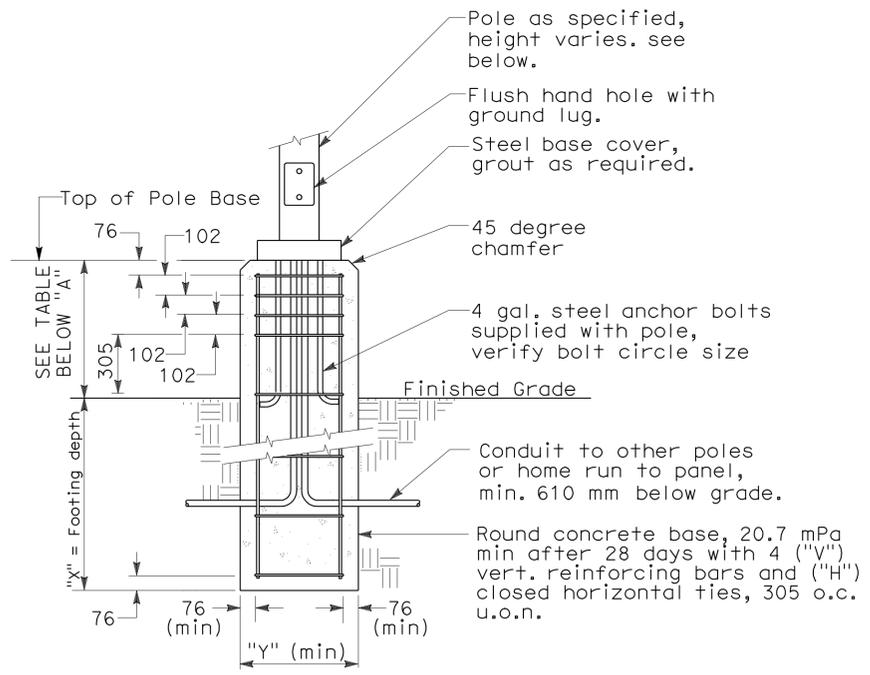


POLE HEIGHT	BOLT CIRCLE	"H"	"V"	"X"	"Y"
7.6 m	292-330	#4	#6	1.83	762

DETAIL 5
BASKETBALL COURT LIGHT LUMINAIRE

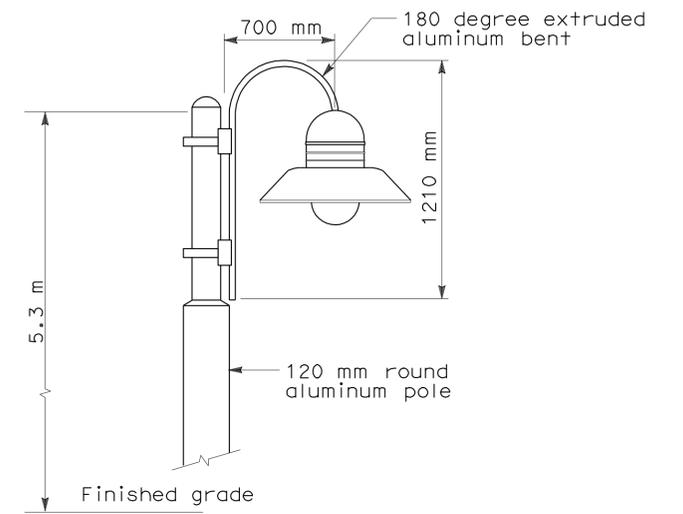


DETAIL 3
USCG STREET LIGHT LUMINAIRE
 (For pole base, see detail on this sheet)

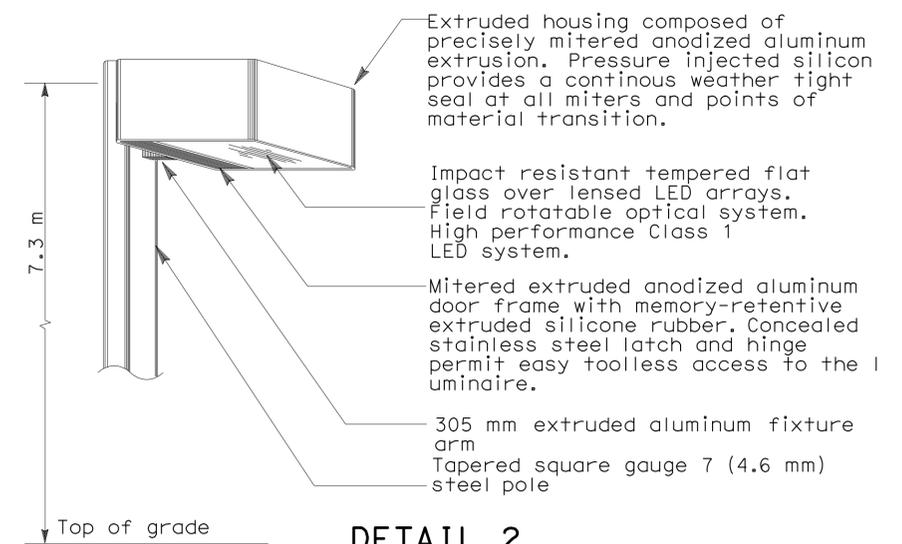


	POLE HEIGHT	POLE BASE "A"	BOLT CIRCLE	"H"	"V"	"X"	"Y"
PARKING LT	6.1 m	1.2 m	273	#3	#4	1.52	610
STREET LT	7.6 m	.762 m	305	#3	#4	1.52	610

DETAIL 4
LIGHTING POLE BASE DETAIL



DETAIL 1
HISTORIC STAIR LIGHTING
 (For pole base, see detail on this sheet)



DETAIL 2
USCG PARKING LIGHT LUMINAIRE
 (For pole base, see detail on this sheet)

DETAILS
LIGHTING LUMINAIRES
 NO SCALE

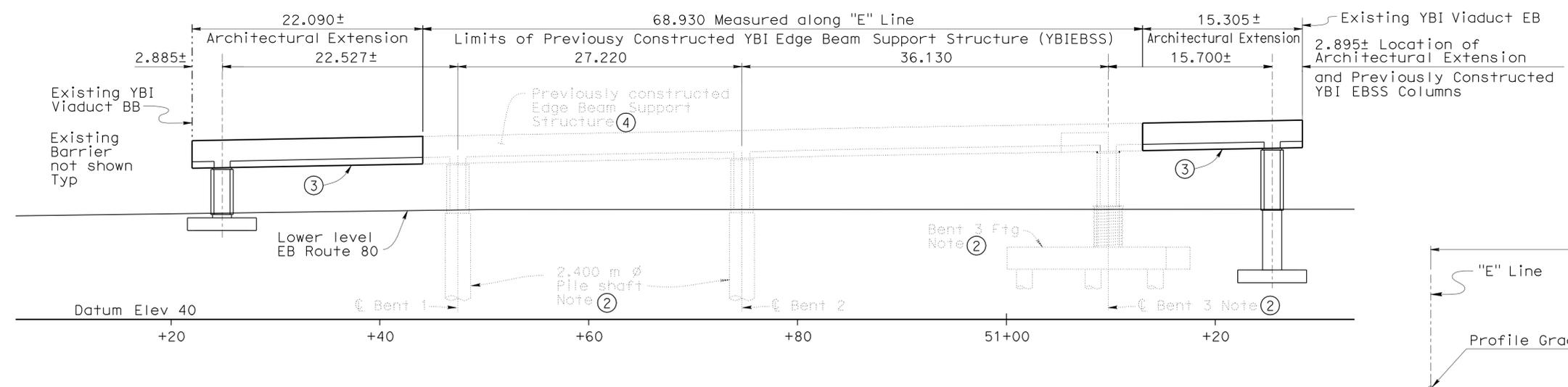
EE-41

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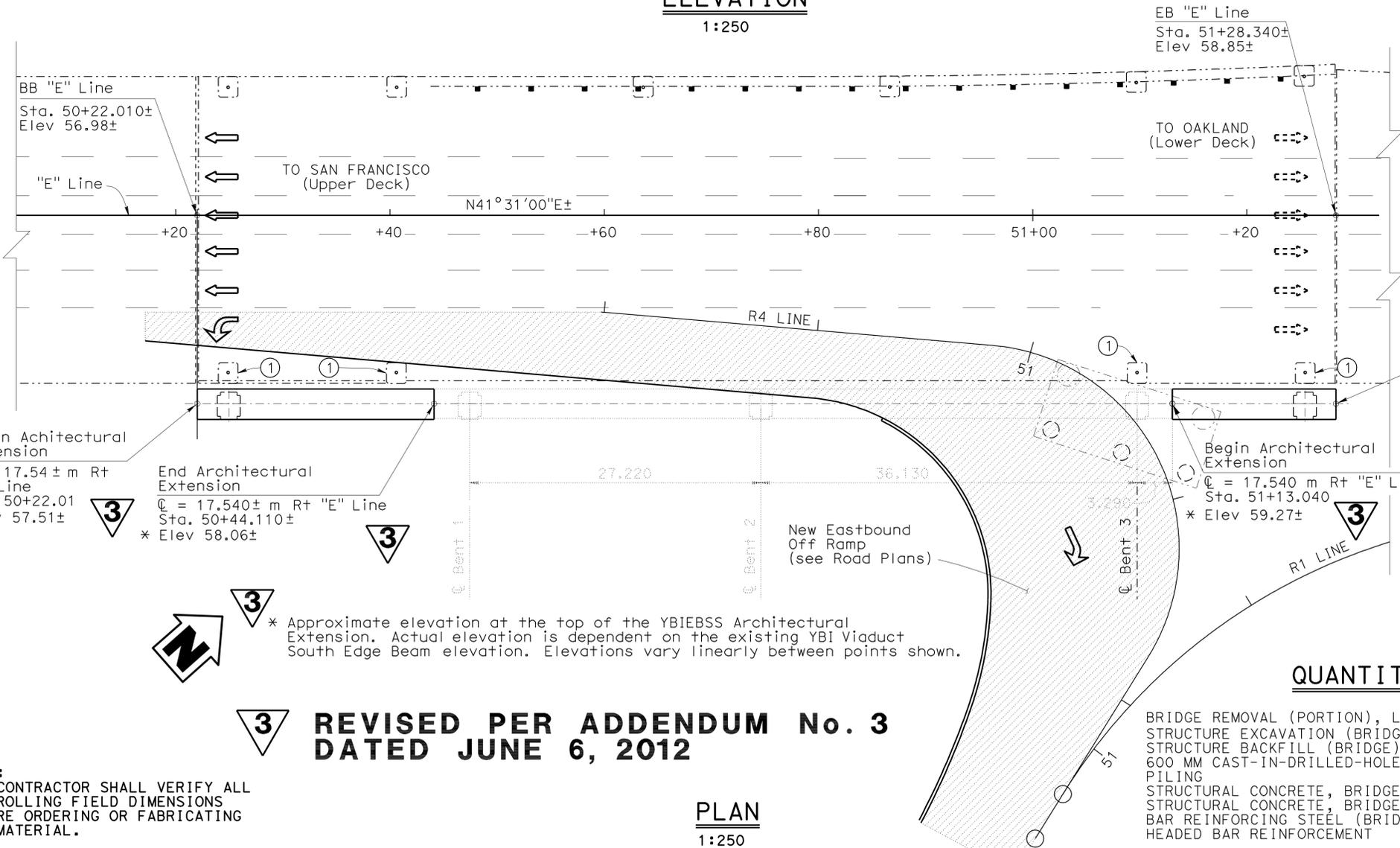
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	12.6/13.9	483	821

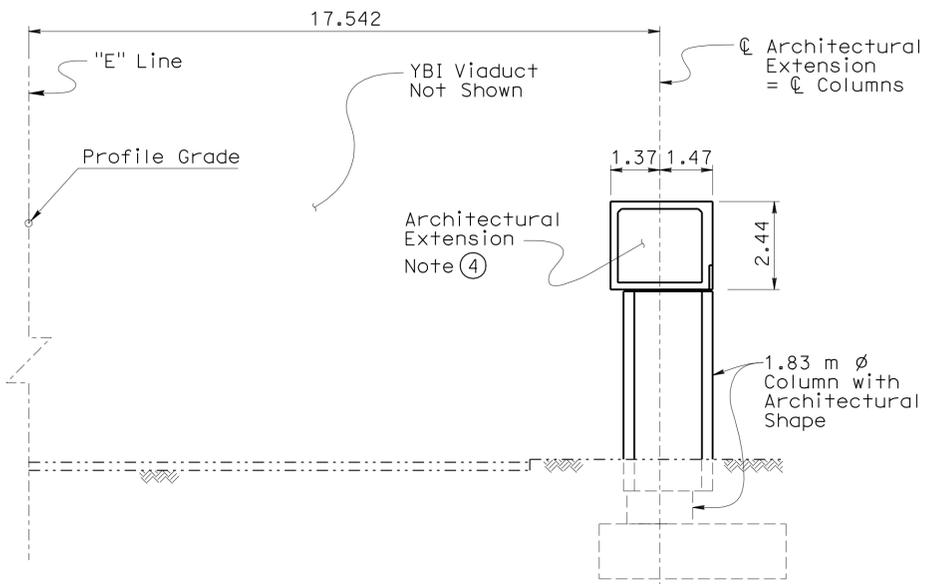
M.J. Cullen
 REGISTERED CIVIL ENGINEER
 DATE 11-09-11
 PLANS APPROVAL DATE 2-21-12
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ELEVATION
1:250



PLAN
1:250



TYPICAL SECTION
1:100

- Notes:
- Existing YBI Viaduct (2007) 1.83 m x 1.93 m columns.
 - Previously Constructed YBIEBSS Element.
 - Soffit Elevation of Architectural Extension shall match Soffit Elevation of Adjacent YBI Viaduct Edge Beam Soffit.
 - The YBI Edge Beam Support Structure shall be constructed and temporary YBI Viaduct columns 41S and 42S shall be removed before construction of the YBI Edge Beam Support Structure Architectural Extension will be permitted.

- LEGEND:
- Indicates Existing Structure
 - Indicates New Structure
 - ▨ Indicates limits of New Eastbound off ramp
 - ← Indicates Westbound Traffic (upper deck)
 - Indicates Eastbound Traffic (lower deck)
 - XX Indicates existing YBI Viaduct Bent Number

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP	SUM
STRUCTURE EXCAVATION (BRIDGE)	400	m ³
STRUCTURE BACKFILL (BRIDGE)	285	m ³
600 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	112	m
STRUCTURAL CONCRETE, BRIDGE FOOTING	95	m ³
STRUCTURAL CONCRETE, BRIDGE	165	m ³
BAR REINFORCING STEEL (BRIDGE)	44	100 kg
HEADED BAR REINFORCEMENT	680	EA



* Approximate elevation at the top of the YBIEBSS Architectural Extension. Actual elevation is dependent on the existing YBI Viaduct South Edge Beam elevation. Elevations vary linearly between points shown.

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	DESIGN	BY M. J. Cullen	CHECKED G. Schuster	LOAD FACTOR DESIGN		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 5	BRIDGE NO.	34-0006	WEST TIE-IN PHASE 3 YBI EDGE BEAM SUPPORT STRUCTURE ARCHITECTURAL EXTENSION GENERAL PLAN	
	DETAILS	BY SJ/TC/GS	CHECKED G. Schuster	LAYOUT	BY M. J. Cullen			CHECKED G. Schuster	KILOMETER POST		NA
	QUANTITIES	BY M. J. Cullen	CHECKED J. De La Torre	SPECIFICATIONS	BY S. Margaritis			CHECKED S. Margaritis	PLANS AND SPECS COMPARED		NA

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
 ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS
 CU 04 EA 0120T1
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 08-24-11, 09-08-11, 09-22-11, 10-04-11, 10-17-11
 SHEET 1 OF 5
 STRUCTURES DESIGN GENERAL PLAN SHEET (METRIC) (REV.07-24-06)

**INDEX TO PLANS
SHEET NO. TITLE**

1. General Plan
2. Foundation Plan
3. Deck Contours (East Bound)
4. Deck Contours (West Bound)
5. Span Layout No. 1
6. Span Layout No. 2
7. Span Layout No. 3
8. Span Layout No. 4
9. Span Layout No. 5
10. Typical Section
11. Span Details No. 1
12. Span Details No. 2
13. Bent Details No. 1
14. Bent Details No. 2
15. Bent Details No. 3
16. Erection Tower Details (Type A)
17. Erection Tower Details (Type B)

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	12.6/13.9	508	821

M. J. Cullen 11-09-11
REGISTERED CIVIL ENGINEER DATE

2-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
M. J. CULLEN
No. C 40620
Exp. 03-31-13
CIVIL
STATE OF CALIFORNIA

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

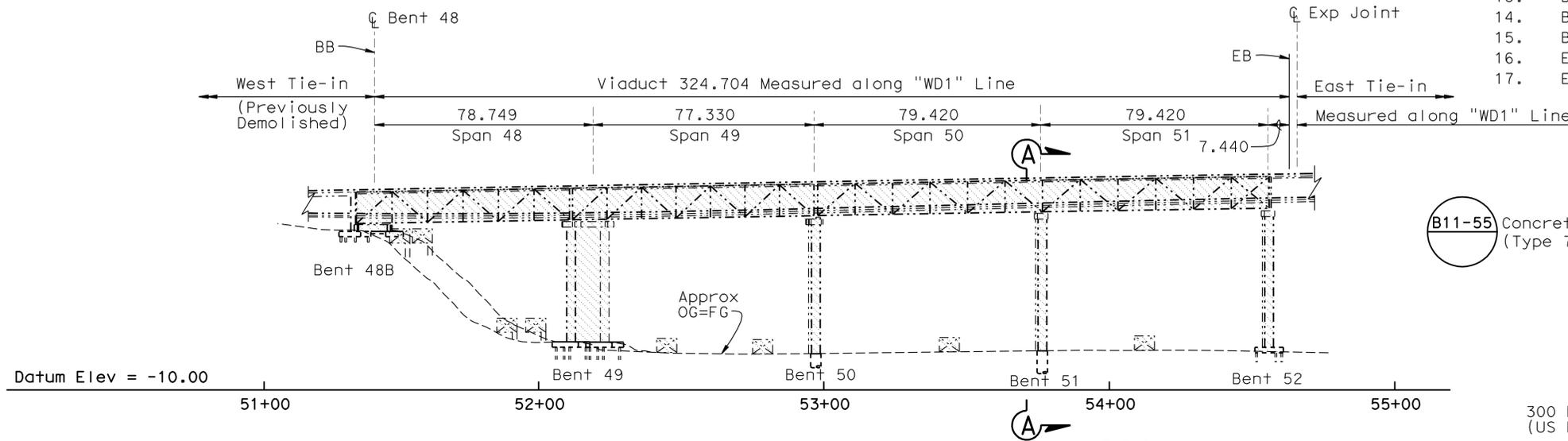
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C LUMP SUM

LEGEND:

- Indicates bridge removal
- Indicates Erection Tower Foundation to be removed Total 8 locations

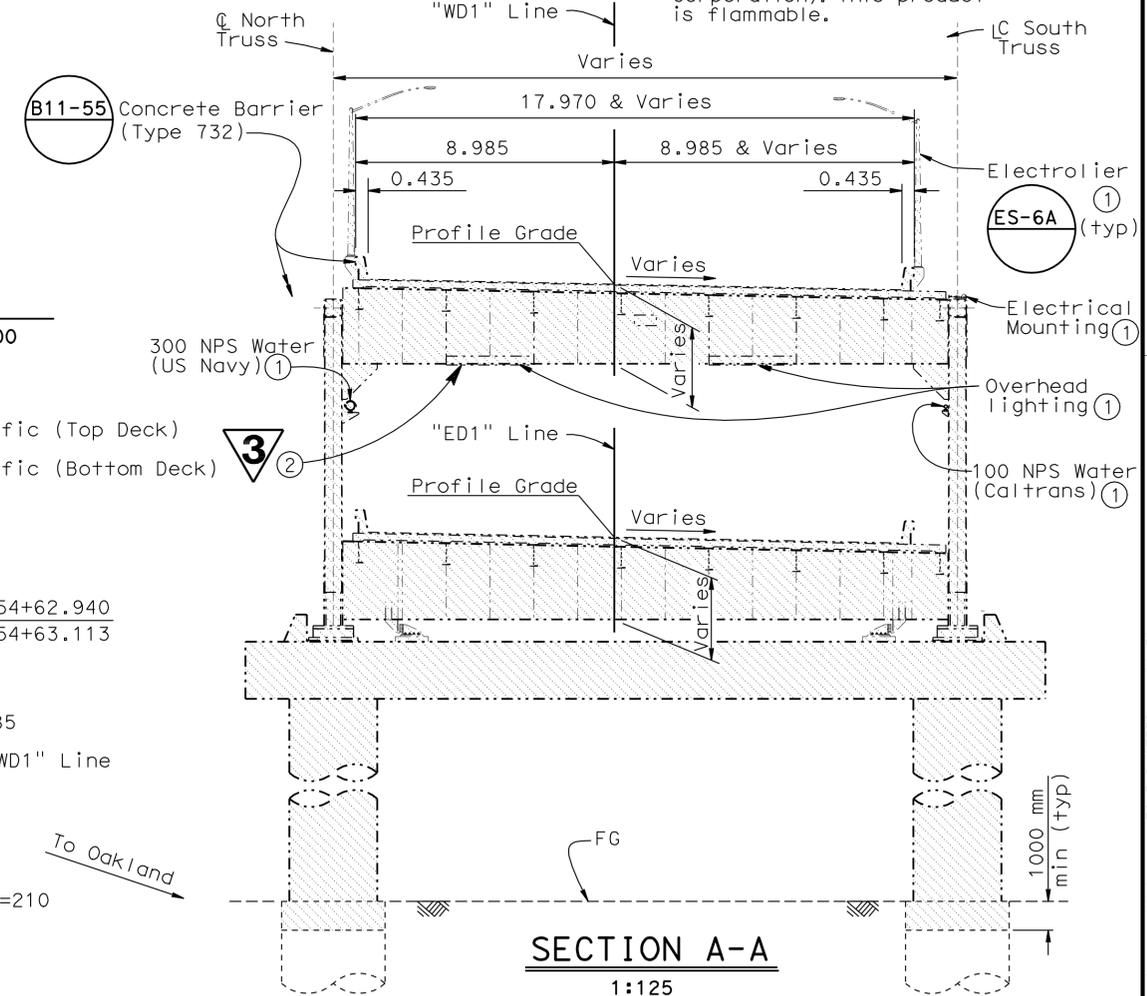
- NOTES:**
- ① All Utilities shall be relocated prior to demolition, see "Road Plans".
 - ② The soffit of the upper deck is coated with 32 mm of K-13 sprayed cellulose acoustical insulation (by International Cellulose Corporation). This product is flammable.



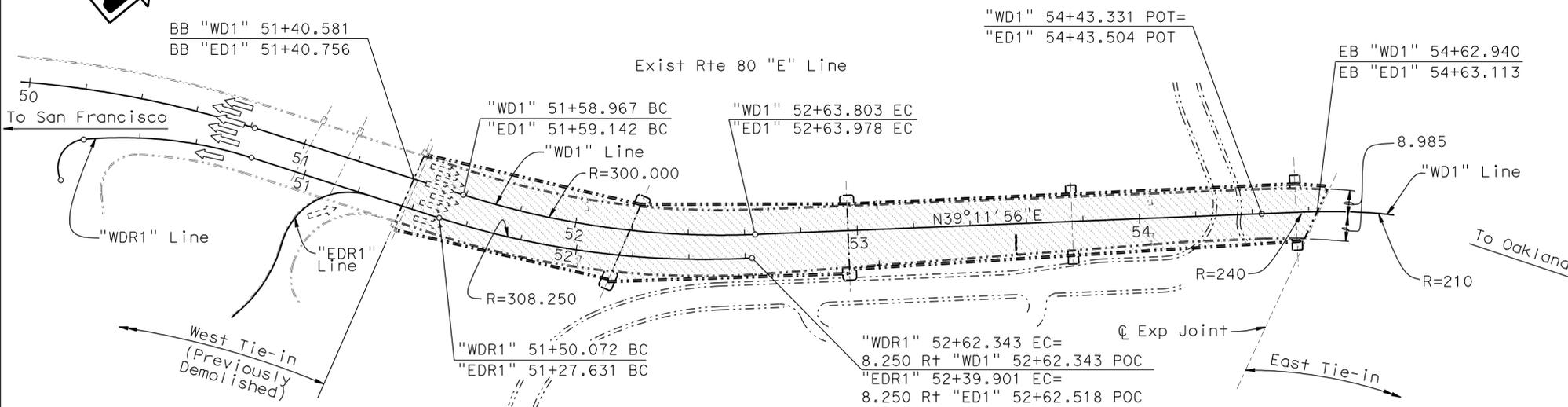
LEGEND:

- Indicates Westbound Traffic (Top Deck)
- Indicates Eastbound Traffic (Bottom Deck)

**ELEVATION
1:1000**



**SECTION A-A
1:125**



**PLAN
1:1000**



REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

NOTE:
ALL DIMENSIONS AND ELEVATIONS ARE APPROXIMATE, THE CONTRACTOR SHALL VERIFY ALL RELATED AS-BUILT FIELD DIMENSIONS.

	DESIGN	By Pyo Hong	CHECKED M. J. Cullen	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 5	BRIDGE NO.	34-0006	SOUTH, SOUTH DETOUR VIADUCT DEMOLITION GENERAL PLAN	
	DETAILS	By G. M. Souza/T. Cotton	CHECKED M. J. Cullen	LAYOUT	By Pyo Hong		CHECKED M. J. Cullen	KILOMETER POST		NA
	QUANTITIES	By Pyo Hong	CHECKED M. J. Cullen	SPECIFICATIONS	By S. Margaritis		CHECKED M. J. Cullen	PLANS AND SPECS COMPARED		M. J. Cullen
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN										
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS						CU 04251 EA 012011				
DISREGARD PRINTS BEARING EARLIER REVISION DATES										
REVISION DATES: 09-28-10, 10-01-10, 10-14-10, 10-21-10, 11-09-10, 01-26-11, 01-24-11, 01-26-11, 10-25-11, 11-08-11										
SHEET 1 OF 17										

FILE => 34-0006-55-01-a-gp-truss.dwg

STRUCTURES DESIGN GENERAL PLAN SHEET (METRIC) (REV.07-24-06)

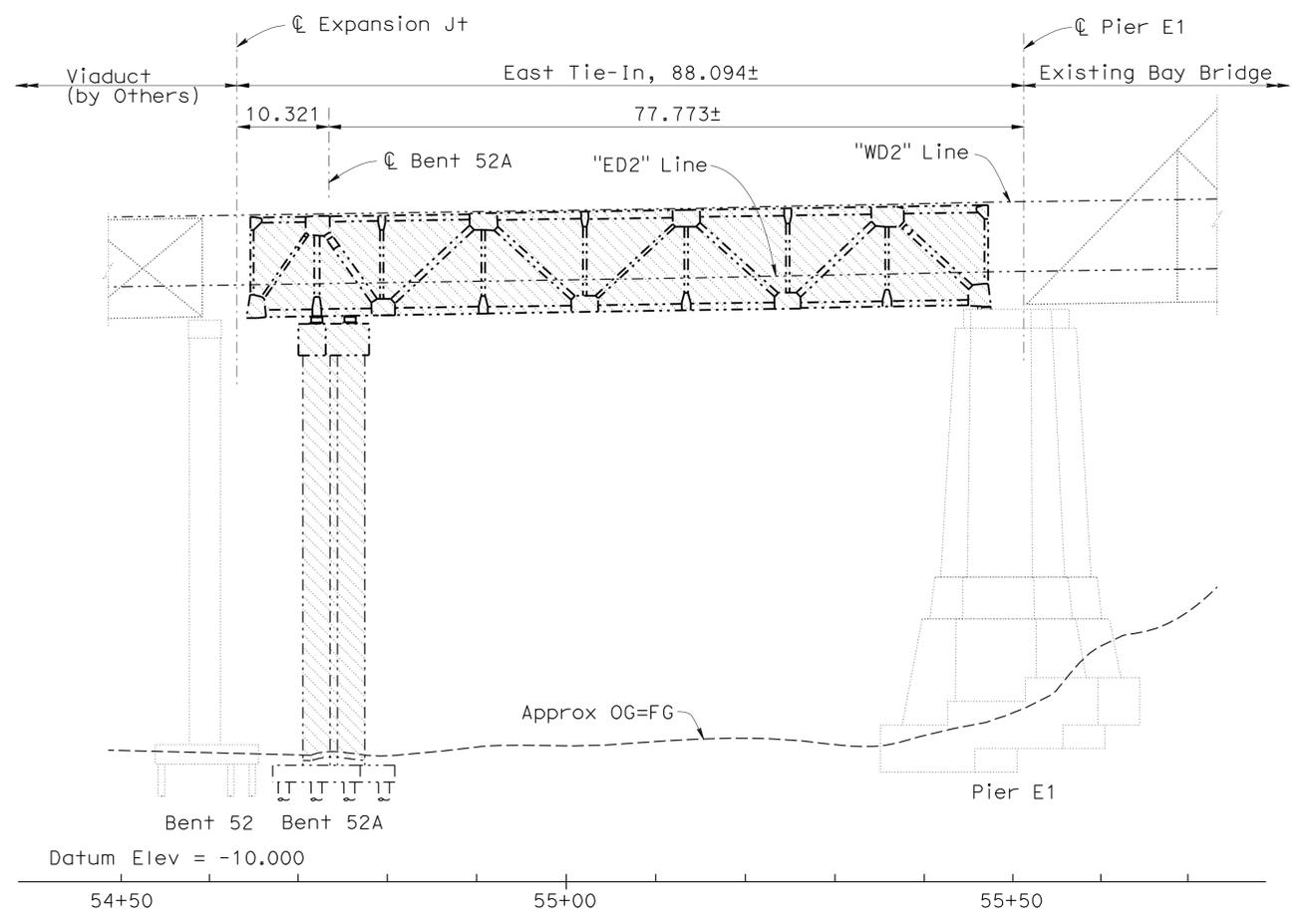
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	12.6/13.9	525	821

M. J. Cullen
REGISTERED CIVIL ENGINEER DATE 11-09-11

2-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
M. J. CULLEN
No. C 40620
Exp. 03-31-13
CIVIL
STATE OF CALIFORNIA

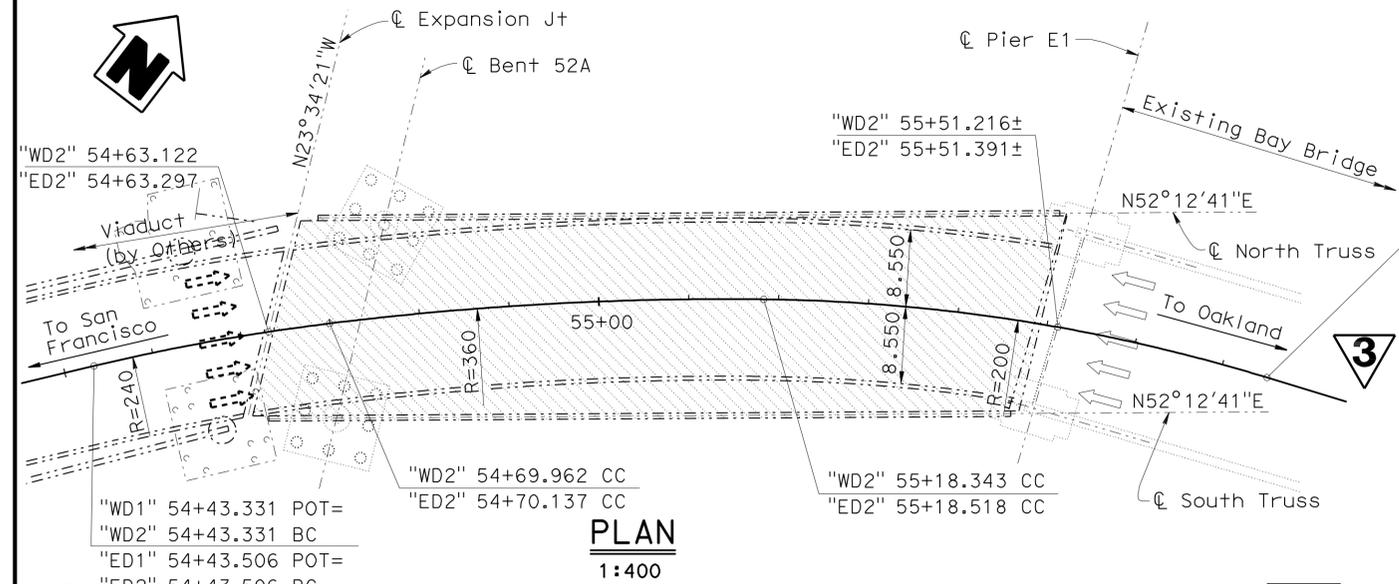
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



PROJECTED ELEVATION

1:400

Note: Longitudinal dimensions measured along "WD2" or "ED2" line.



PLAN

1:400

NOTE: ALL DIMENSIONS AND ELEVATIONS ARE APPROXIMATE, THE CONTRACTOR SHALL VERIFY ALL RELATED AS-BUILT FIELD DIMENSIONS.

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D LUMP SUM

INDEX TO PLANS SHEET NO. TITLE

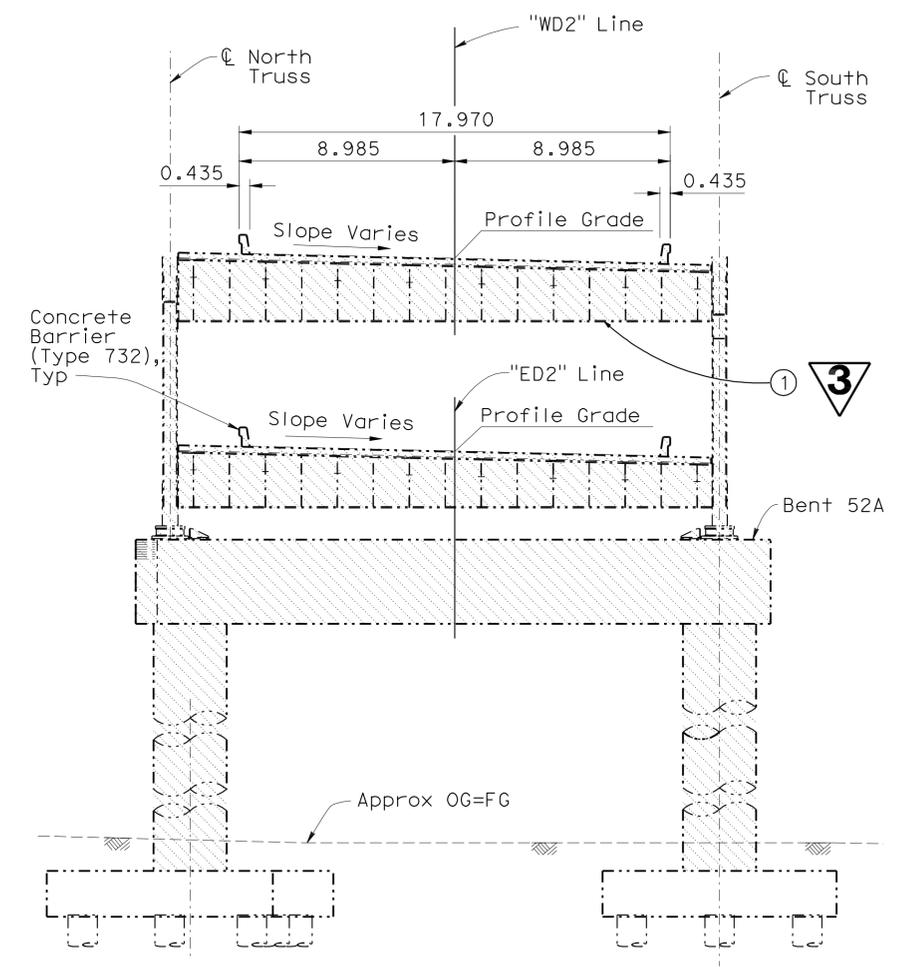
1. General Plan
2. Foundation Plan
3. Deck Contours (East Bound)
4. Deck Contours (West Bound)
5. Span Layout No. 1
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7. Span Layout No. 3
8. Span Layout No. 4
9. Span Layout No. 5
10. Typical Section
11. Span Details No. 1
12. Span Details No. 2
13. Bent Details No. 1
14. Bent Details No. 2
15. Bent Details No. 3

LEGEND:

- Indicates Existing Structure
- ▨ Indicates Bridge Removal
- ← Indicates Westbound Traffic
- Indicates Eastbound Traffic

NOTE:

① The soffit of the upper deck is coated with 32 mm of K-13 sparyed cellulose acoustical insulation (by International Cellulose Corporation). This product is flammable.



TYPICAL SECTION

1:150

Note: Dimensions measured perpendicular to "WD2" or "ED2" line.

All dimensions are approximate.



REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

	DESIGN	BY M. J. Cullen	CHECKED Pyo Hong	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 5	BRIDGE NO.	EAST TIE-IN (DEMOLITION) GENERAL PLAN	
	DETAILS	BY G. M. Souza/T. Cotton	CHECKED M. J. Cullen	LAYOUT	BY M. J. Cullen			CHECKED Pyo Hong		KILOMETER POST
	QUANTITIES	BY M. J. Cullen	CHECKED Pyo Hong	SPECIFICATIONS	BY S. Margaritis			CHECKED M. J. Cullen		NA
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN										
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS						CU 04251 EA 0120T1		REVISION DATES		
0 10 20 30 40 50 60 70 80 90 100						DISREGARD PRINTS BEARING EARLIER REVISION DATES		09-23-10 10-01-10 10-14-10 10-21-10 11-09-10 12-23-10 01-18-11 01-28-11		
FILE => 34-0006-72-01-a-gp-truss.dwg										
STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)										

GENERAL DEMOLITION NOTES

1. Design Specifications:

Caltrans Bridge Design Specifications, 2004;
AISC Manual of Steel Construction, 1989.

The analysis and demolition sequence of the existing Cantilever Truss and all attachments and modifications shall be based on Allowable Stress Design (ASD) only.



2. Wind Load:

Windward pressure = 1.86 KN/m²
Leeward pressure = 0.93 KN/m²

3. Existing Structural Steel (MPa):

Steel Type	Nickel	Carbon		Silicon	Heat Treated
		Medium	Mild		
F _y	379	255	207	310	345
F _{allowable}	234	152	124	193	234

F_{allowable} shown is for axial tension only.
For other failure modes refer to Design Specifications.



Where the material is not otherwise specifically designated on as-built plans, Medium Carbon Steel was used.

4. Existing Rivets (MPa):



Sizes (Dia): 19 mm, 22 mm, 25 mm, 29 mm, 32 mm, 34 mm
Shear: Connection:



Carbon Steel Rivet Allowable = 103
Manganese Steel Rivet Allowable = 138
Bearing: Connection:
Carbon Steel Rivet Allowable = 207
Manganese Steel Rivet Allowable:
For Carbon Steel = 207
For Silicon Steel = 262
For Nickel Steel = 310

5. Datum:

Elevation based on 1929 NGVD Datum.
Mean Lower Low Water (MLLW) is at Elevation 0.00.
All Elevations shown in Meters.

APPROXIMATE TIDAL SUMMARY	
TIDE LEVEL	ELEVATION (m) (NGVD)
Highest Observed Water Level (EHW)	2.61
Mean Higher High Water (MHHW)	1.87
Mean Sea Level (MSL)	0.87
Mean Lower Low Water (MLLW)	0
Lowest Observed Water Level (ELW)	-0.61

Contractor shall verify tidal elevations prior to beginning work

6. Coordinates, distances, and bearings are based on 1933 as-built plans.

7. Depending on demolition sequence and equipment used, existing structure members and connections may require strengthening and / or supplemental bracing.

INDEX TO PLANS

SHEET NO. TITLE

1	GENERAL PLAN
2	INDEX TO PLANS
3	DEMOLITION LIMITS PLAN
4	TRUSS MEMBER MATERIALS
5	FOUNDATION PLAN
6	TYPICAL SECTION
7	PIER E1
8	PIER E2
9	PIER E3
10	LOG OF TEST BORINGS 1
11	LOG OF TEST BORINGS 2
12	LOG OF TEST BORINGS 3
13	LOG OF TEST BORINGS 4
14	LOG OF TEST BORINGS 5
15	LOG OF TEST BORINGS 6
16	LOG OF TEST BORINGS 7
17	LOG OF TEST BORINGS 8
18	LOG OF TEST BORINGS 9
19	LOG OF TEST BORINGS 10
20	LOG OF TEST BORINGS 11
21	LOG OF TEST BORINGS 12
22	LOG OF TEST BORINGS 13
23	LOG OF TEST BORINGS 14
24	LOG OF TEST BORINGS 15
25	LOG OF TEST BORINGS 16
26	LOG OF TEST BORINGS 17
27	LOG OF TEST BORINGS 18
28	LOG OF TEST BORINGS 19
29	LOG OF TEST BORINGS 20
30	LOG OF TEST BORINGS 21
31	LOG OF TEST BORINGS 22
32	LOG OF TEST BORINGS 23
33	LOG OF TEST BORINGS 24
34	LOG OF TEST BORINGS 25
35	LOG OF TEST BORINGS 26
36	LOG OF TEST BORINGS 27
37	LOG OF TEST BORINGS 28
38	LOG OF TEST BORINGS 29
39	LOG OF TEST BORINGS 30
40	LOG OF TEST BORINGS 31
41	LOG OF TEST BORINGS 32
42	LOG OF TEST BORINGS 33
43	LOG OF TEST BORINGS 34
44	LOG OF TEST BORINGS 35
45	LOG OF TEST BORINGS 36
46	LOG OF TEST BORINGS 37
47	LOG OF TEST BORINGS 38
48	LOG OF TEST BORINGS 1 OF 47
49	LOG OF TEST BORINGS 2 OF 47
50	LOG OF TEST BORINGS 3 OF 47
51	LOG OF TEST BORINGS 4 OF 47
52	LOG OF TEST BORINGS 5 OF 47
53	LOG OF TEST BORINGS 6 OF 47
54	LOG OF TEST BORINGS 7 OF 47
55	LOG OF TEST BORINGS 8 OF 47
56	LOG OF TEST BORINGS 9 OF 47
57	LOG OF TEST BORINGS 10 OF 47
58	LOG OF TEST BORINGS 11 OF 47
59	LOG OF TEST BORINGS 12 OF 47
60	LOG OF TEST BORINGS 13 OF 47
61	LOG OF TEST BORINGS 14 OF 47
62	LOG OF TEST BORINGS 15 OF 47

SHEET NO. TITLE

63	LOG OF TEST BORINGS 1 OF 25
64	LOG OF TEST BORINGS 2 OF 25
65	LOG OF TEST BORINGS 3 OF 25
66	LOG OF TEST BORINGS 4 OF 25
67	LOG OF TEST BORINGS 5 OF 25
68	LOG OF TEST BORINGS 6 OF 25
69	LOG OF TEST BORINGS 7 OF 25
70	LOG OF TEST BORINGS 8 OF 25
71	LOG OF TEST BORINGS 9 OF 25
72	LOG OF TEST BORINGS 10 OF 25
73	LOG OF TEST BORINGS 11 OF 25
74	LOG OF TEST BORINGS 12 OF 25
75	LOG OF TEST BORINGS 13 OF 25
76	LOG OF TEST BORINGS 14 OF 25
77	LOG OF TEST BORINGS 15 OF 25
78	LOG OF TEST BORINGS 16 OF 25
79	LOG OF TEST BORINGS 17 OF 25
80	LOG OF TEST BORINGS 18 OF 25
81	LOG OF TEST BORINGS 19 OF 25
82	LOG OF TEST BORINGS 20 OF 25
83	LOG OF TEST BORINGS 21 OF 25
84	LOG OF TEST BORINGS 22 OF 25
85	LOG OF TEST BORINGS 23 OF 25
86	LOG OF TEST BORINGS 24 OF 25
87	LOG OF TEST BORINGS 25 OF 25

STANDARD PLANS DATED JULY 2004

- A10A ACRONYMS AND ABBREVIATIONS (A-L)
- A10B ACRONYMS AND ABBREVIATIONS (M-Z)



REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012



REVISED PER ADDENDUM No. 1 DATED APRIL 25, 2012



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	536	821

Wenyi Long 11-07-11
REGISTERED CIVIL ENGINEER DATE

2-21-12
PLANS APPROVAL DATE

WENYI LONG
No. C57430
Exp. 12-31-13
CIVIL
STATE OF CALIFORNIA

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CANTILEVER TRUSS REMOVAL SEQUENCE:

- Connect the top chords between joints US0 and UC7 at four locations, at both ends of the suspended span and at the north and south sides of the span, to exceed the capacity of the adjoining chord members. Install lateral bracing to exceed the capacity of the existing lateral bracing in the adjacent panel.
- Remove upper deck concrete slab and overlay, deck joists, curbs and barriers. Deck removal shall begin at the center of span E2-E3 and proceed toward Pier E1 and Pier E4.
- Connect the adjacent steel truss superstructures across Pier 4 to transfer longitudinal and transverse loads. If necessary, strengthen the existing connection of the superstructure to Pier E9 to transfer the longitudinal load.
- At the Contractor's option, the lower deck concrete slab and overlay, deck joists, curbs and barriers may be a) removed concurrently with the steel truss or b) removed partially or entirely prior to steel truss removal but after upper deck removal has been completed. Deck removal shall begin at the center of span E2-E3 and proceed toward Pier E1 and Pier E4.
- Remove Steel Truss. Complete steps 1, 2 and 3 prior to beginning steel truss removal.
 - In span E2-E3, remove lateral bracing at the top and bottom chords only within the panel that is being removed.
 - Remove suspended span. Remove the steel truss member by member beginning from the center of span E2-E3 and proceed toward Pier E2 and E3.
 - Install temporary supports under the anchor span prior to beginning steel truss removal in the respective cantilever arm.
 - Remove cantilever arms. Remove the steel truss member by member beginning from the end of the cantilever arms and proceeding toward Pier E2 and E3.
 - Remove anchor spans.

Note: Steps 1, 2 and 3 may be performed concurrently.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SAN FRANCISCO-OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT	
BRIDGE NO. 33-0025	EXISTING CANTILEVER TRUSS DEMOLITION
KILOMETER POST 13.2/13.9	INDEX TO PLANS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

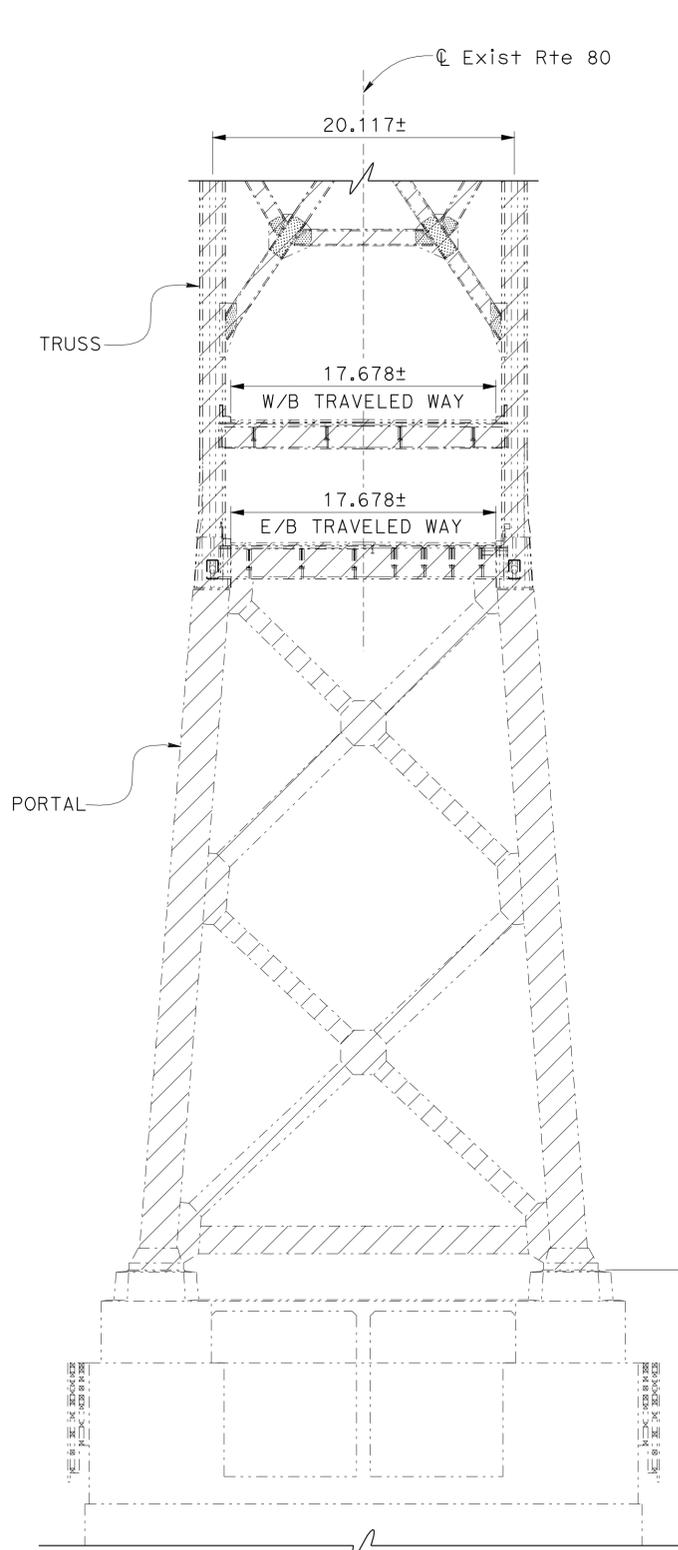
CU 04
EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

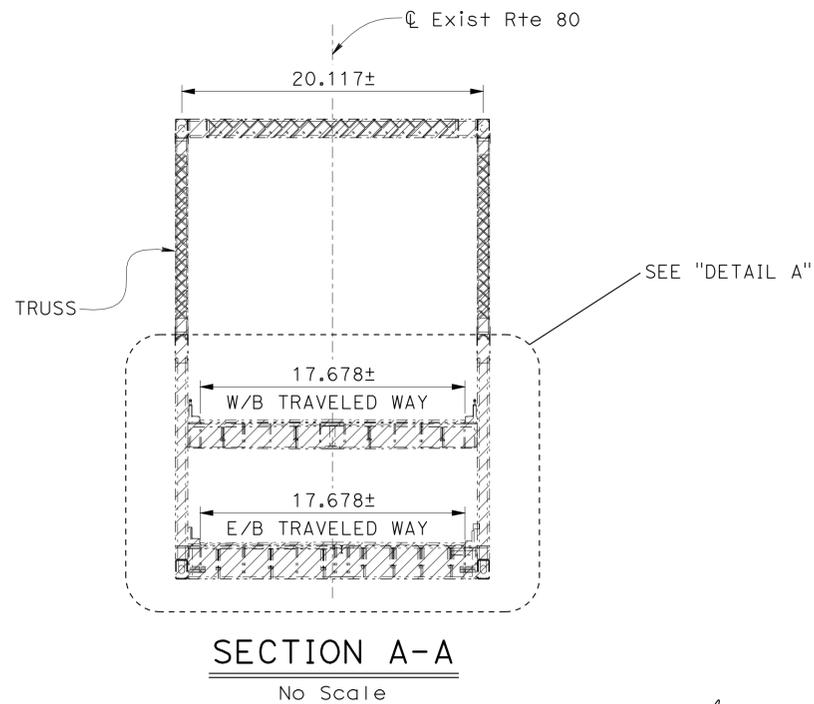
REVISION DATES	SHEET	OF
10-28-11 02/13/12	2	87



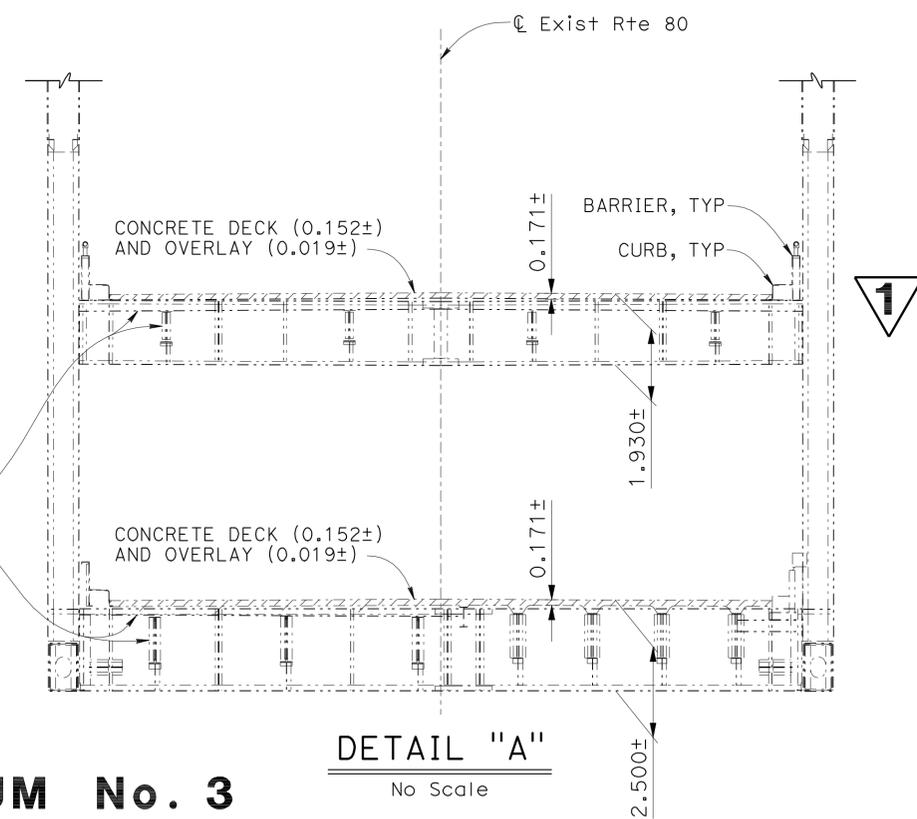
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.6/13.9	540	821
<i>Wenyi Long</i> REGISTERED CIVIL ENGINEER			11-07-11 DATE		
2-21-12 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



**TYPICAL SECTION
PIER E2 AND PIER E3**
No Scale



SECTION A-A
No Scale



DETAIL "A"
No Scale

3 REVISED PER ADDENDUM No. 3
DATED JUNE 6, 2012

1 REVISED PER ADDENDUM No. 1
DATED APRIL 25, 2012

LEGEND:
 - - - - - Indicates Existing
 // // // // // Indicates Removal

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY W. Long	CHECKED J. Shen
DETAILS	BY C. Cancino	CHECKED J. Shen
QUANTITIES	BY L. Wang	CHECKED J. Shen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TOLL BRIDGE DESIGN

BRIDGE NO.	33-0025
KILOMETER POST	13.2/13.9

SAN FRANCISCO-OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT	
EXISTING CANTILEVER TRUSS DEMOLITION	
TYPICAL SECTION	

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

CU 04
EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
10-28-11 02/15/12	6	87



DIST.	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	648	821

11-08-11
REGISTERED ENGINEER - CIVIL
A.L. ELY
No. 18880
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE
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T.Y. LIN / MOFFATT & NICHOL
TWO HARRISON STREET
SAN FRANCISCO, CA 94105

INDEX TO BRIDGE PLANS

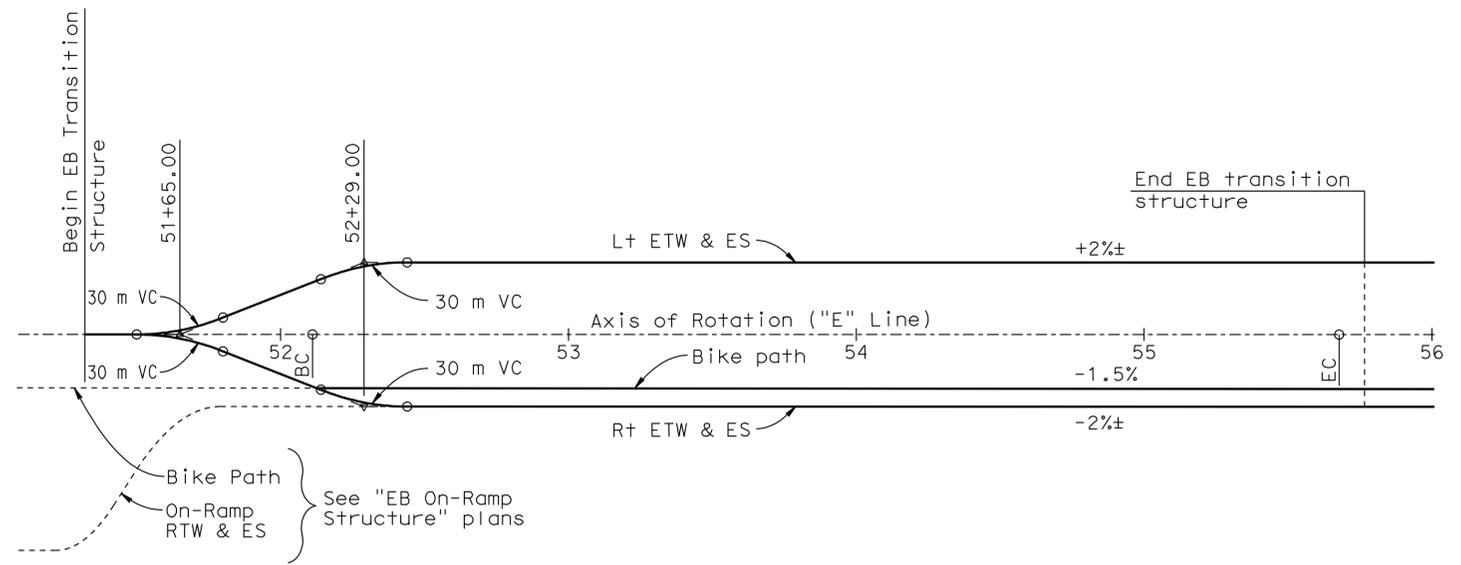
1. GENERAL PLAN
2. PARTIAL EASTBOUND STRUCTURE PLAN
3. PARTIAL EASTBOUND DECK CONTOURS PLAN
4. REMOVAL OF TEMPORARY EB ON-RAMP
5. TYPICAL SECTIONS
6. PARTIAL EASTBOUND GIRDER LAYOUT
7. BIKE PATH DETAILS NO.1
8. BIKE PATH DETAILS NO.2
9. BIKE PATH DETAILS NO.3
10. BIKE PATH DETAILS NO.4
11. BIKE PATH DETAILS NO.5
12. BIKE PATH RAILING DETAILS NO.1
13. BIKE PATH RAILING DETAILS NO.2
14. BIKE PATH RAILING DETAILS NO.3
15. BIKE PATH RAILING DETAILS NO.4
16. BIKE PATH FENCE DETAILS NO.1
17. BIKE PATH FENCE DETAILS NO.2
18. BIKE PATH FENCE DETAILS NO.3
19. BIKE PATH FENCE DETAILS NO.4
20. CONCRETE BARRIER TYPE 732 (MOD)

GENERAL NOTES:

Load Factor Design
Design: Caltrans Design Specifications - April 2000 (LFD)
(1996 AASHTO with interims and revisions by Caltrans)

Bike Path Live Load: 4000 N/m2

Reinforced Concrete: Fy = 420 MPa
F'c = 25 MPa
N = 8



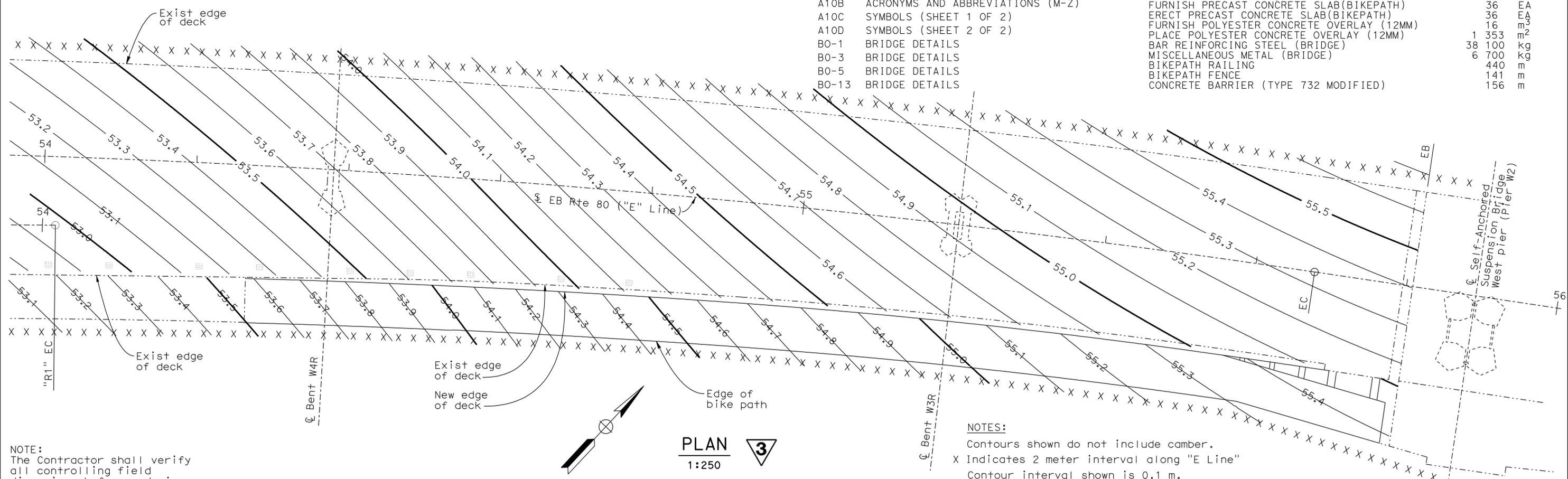
EASTBOUND SUPERELEVATION DIAGRAM
No Scale

APPLICABLE STANDARD PLANS
(DATED JULY 2004)

- A10A ACRONYMS AND ABBREVIATIONS (A-L)
- A10B ACRONYMS AND ABBREVIATIONS (M-Z)
- A10C SYMBOLS (SHEET 1 OF 2)
- A10D SYMBOLS (SHEET 2 OF 2)
- B0-1 BRIDGE DETAILS
- B0-3 BRIDGE DETAILS
- B0-5 BRIDGE DETAILS
- B0-13 BRIDGE DETAILS

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	1 210	m ²
BRIDGE REMOVAL (PORTION), LOCATION F	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	325	m ³
FURNISH PRECAST CONCRETE SLAB(BIKEPATH)	36	EA
ERECT PRECAST CONCRETE SLAB(BIKEPATH)	36	EA
FURNISH POLYESTER CONCRETE OVERLAY (12MM)	16	m ³
PLACE POLYESTER CONCRETE OVERLAY (12MM)	1 353	m ²
BAR REINFORCING STEEL (BRIDGE)	38 100	kg
MISCELLANEOUS METAL (BRIDGE)	6 700	kg
BIKEPATH RAILING	440	m
BIKEPATH FENCE	141	m
CONCRETE BARRIER (TYPE 732 MODIFIED)	156	m

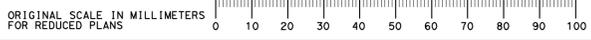


NOTES:
Contours shown do not include camber.
X Indicates 2 meter interval along "E Line"
Contour interval shown is 0.1 m.

NOTE:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material or performing any work that might thereby be affected.

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

DESIGN OVERSIGHT <i>Juan F. Carpio</i> JUAN F. CARPIO, JASON FAN	DESIGN By Poyer CHECKED Desai	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 34-0006 R	YBI EB TRANSITION STRUCTURE (MOD) PARTIAL EASTBOUND DECK CONTOURS PLAN
SIGN OFF DATE	DETAILS By Samson CHECKED Jain	Jal Birdy PROJECT ENGINEER	KILOMETER POST 12.8	
Rev. Date: 5-18-98	QUANTITIES By Fellows CHECKED Birdy	CU 04251 EA 0120T1	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 3 OF 20



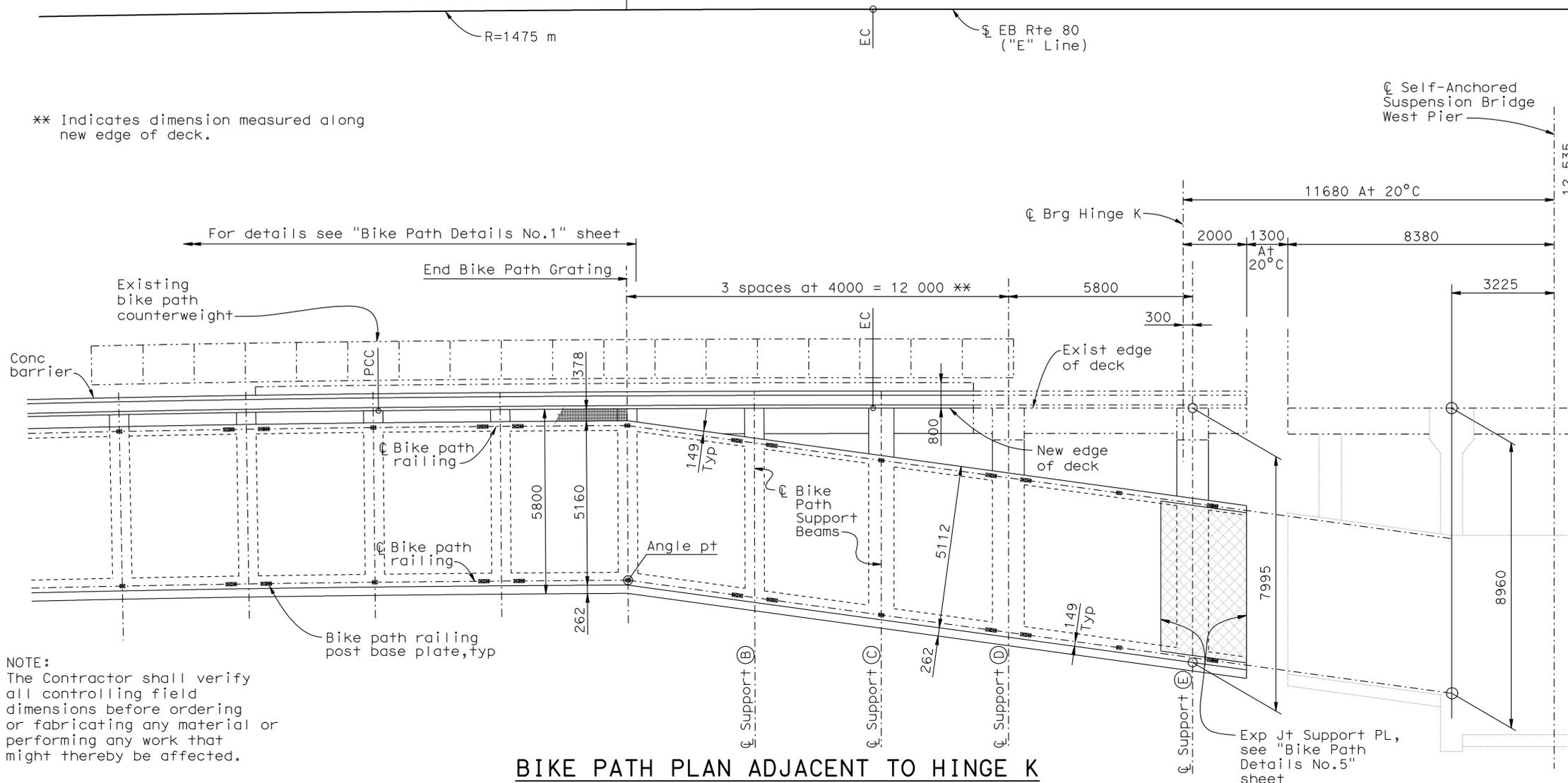


DIST.	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL	SHEET NO.	TOTAL SHEETS
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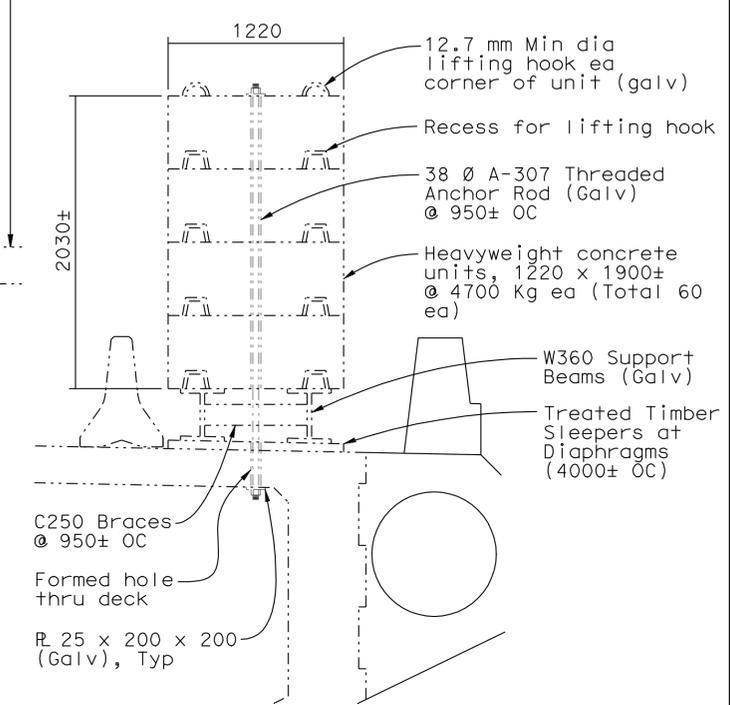
REGISTERED ENGINEER - CIVIL
 A.L. ELY
 No. 18880
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA

11-08-11
 2-21-12
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 T.Y. LIN / MOFFATT & NICHOL
 TWO HARRISON STREET
 SAN FRANCISCO, CA 94105

** Indicates dimension measured along new edge of deck.

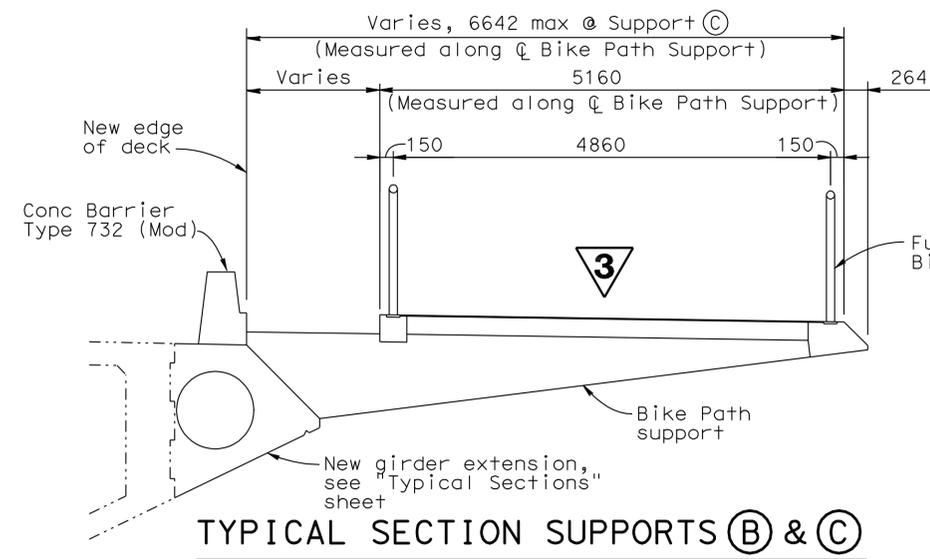


BIKE PATH PLAN ADJACENT TO HINGE K
1:80

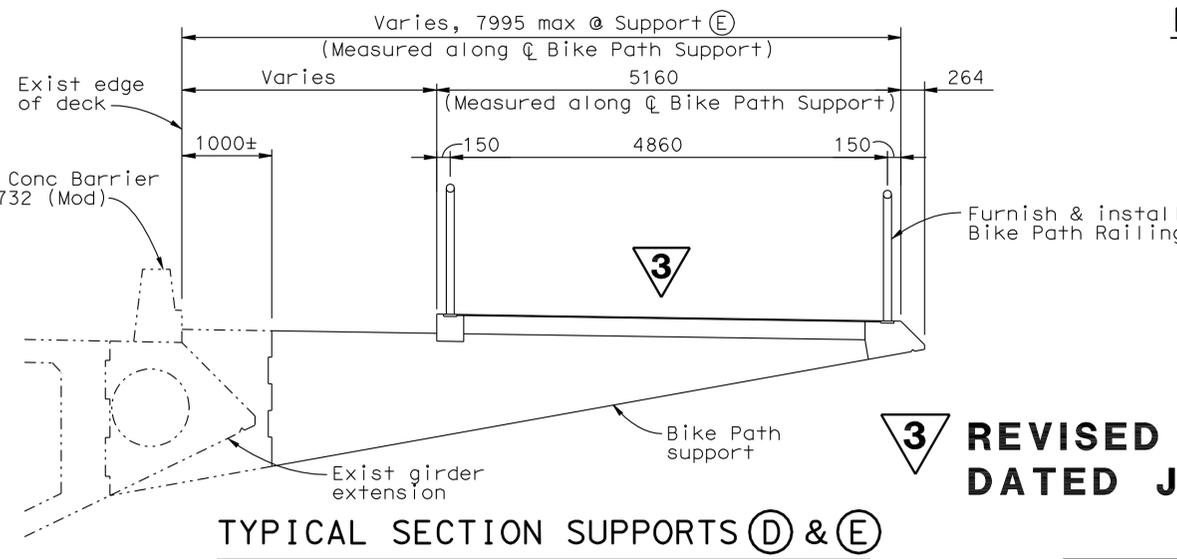


EXIST REMOVABLE BIKE PATH COUNTERWEIGHT (STA 55+43 TO 55+72)
1:25

NOTE:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material or performing any work that might thereby be affected.



TYPICAL SECTION SUPPORTS (B) & (C)
1:40



TYPICAL SECTION SUPPORTS (D) & (E)
1:40

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

DESIGN OVERSIGHT
Juan F. Carpio
 JUAN F. CARPIO, JASON FAN

DESIGN BY Atiqullah
 CHECKED Ahn
 DETAILS BY Samson
 CHECKED Jain
 QUANTITIES BY Fellows
 CHECKED Birdy

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

Jal Birdy
 PROJECT ENGINEER
 BRIDGE NO. 34-0006 R
 KILOMETER POST 12.8

SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT
YBI EB TRANSITION STRUCTURE (MOD)
BIKE PATH DETAILS NO.2

SIGN OFF DATE
 Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

CU 04251
 EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 8 OF 20

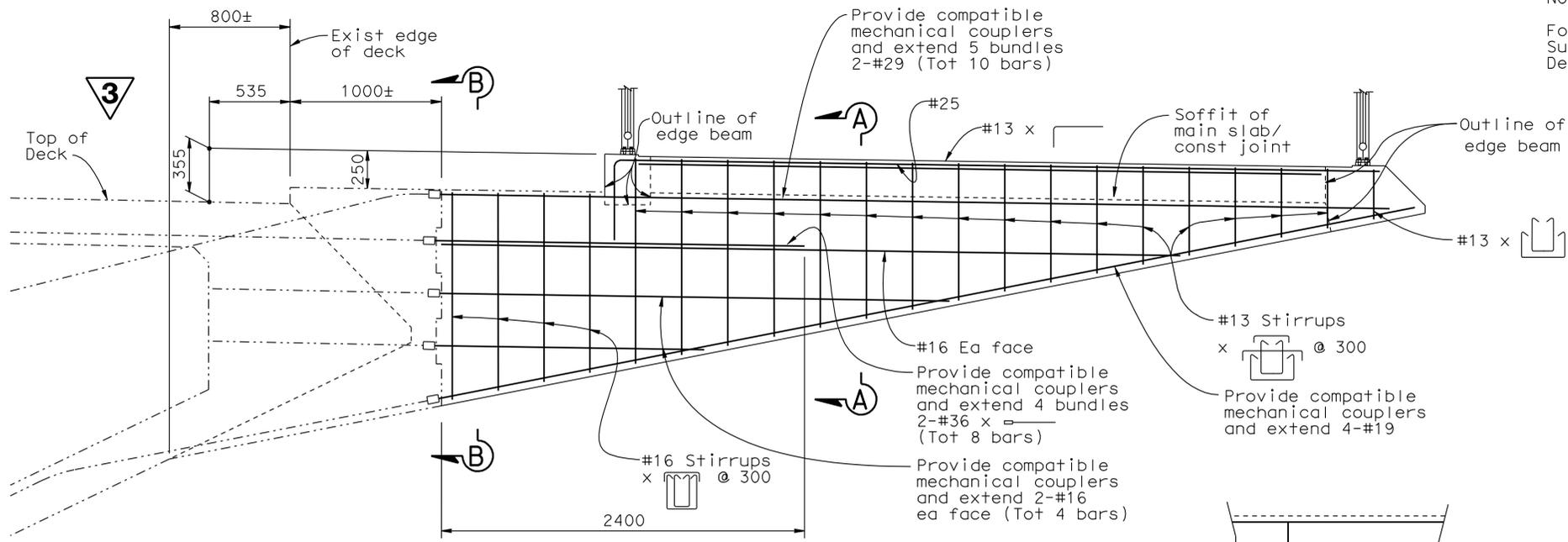
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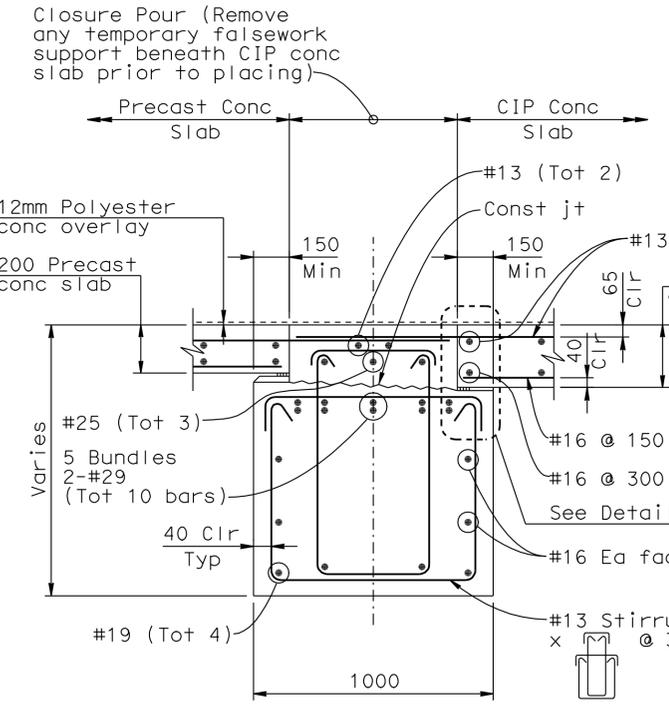
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	655	821

REGISTERED ENGINEER - CIVIL 11-08-11 2-21-12 PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. T.Y. LIN / MOFFATT & NICHOL TWO HARRISON STREET SAN FRANCISCO, CA 94105	

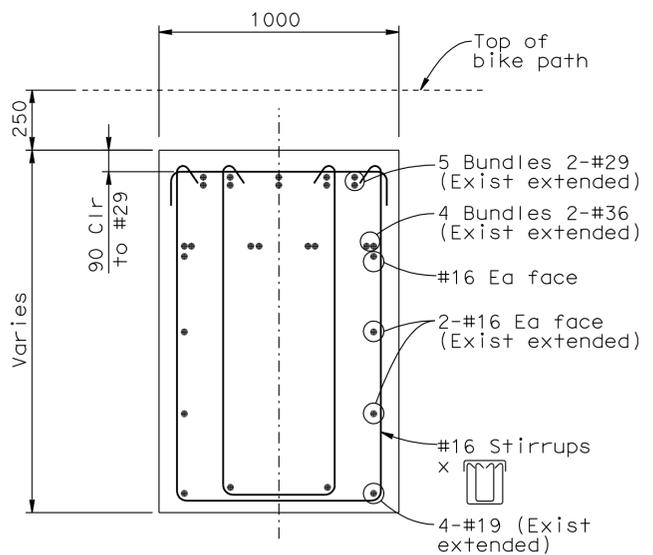
NOTE:
For location of Bike Path Support (D), see "Bike Path Details No.2" sheet.



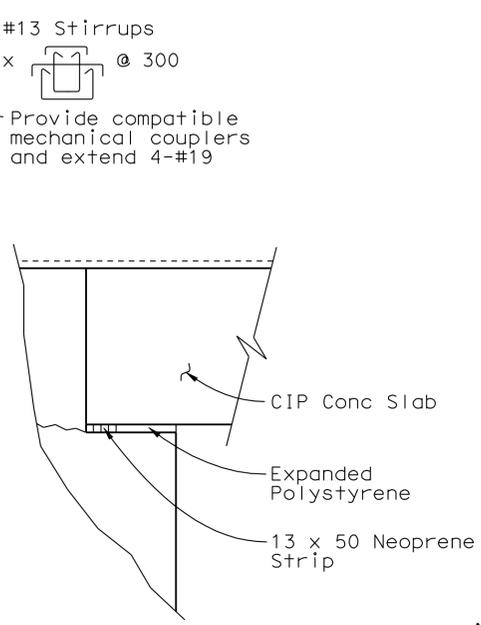
ELEVATION BIKE PATH SUPPORT (D)
1:20



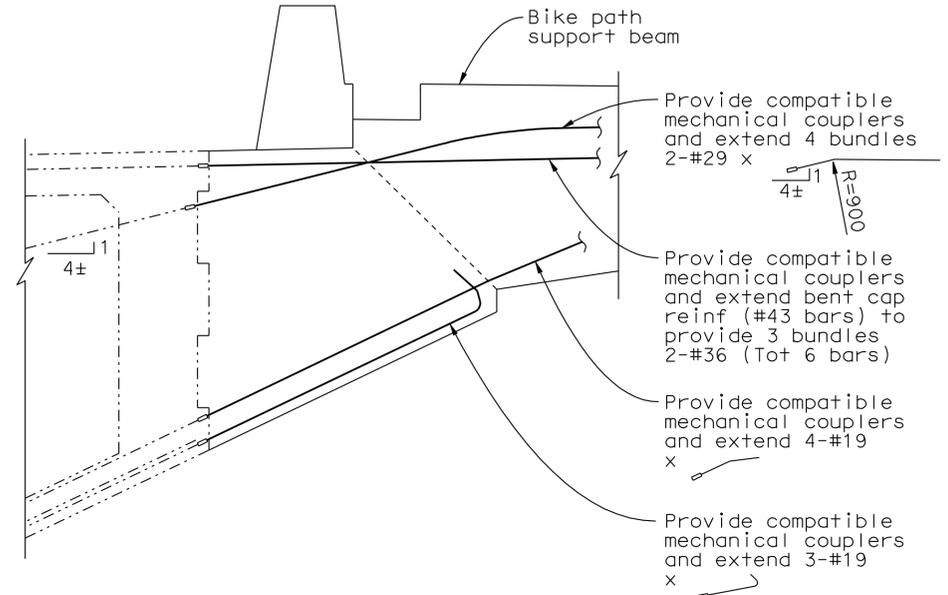
SECTION A-A
1:15



SECTION B-B
1:15

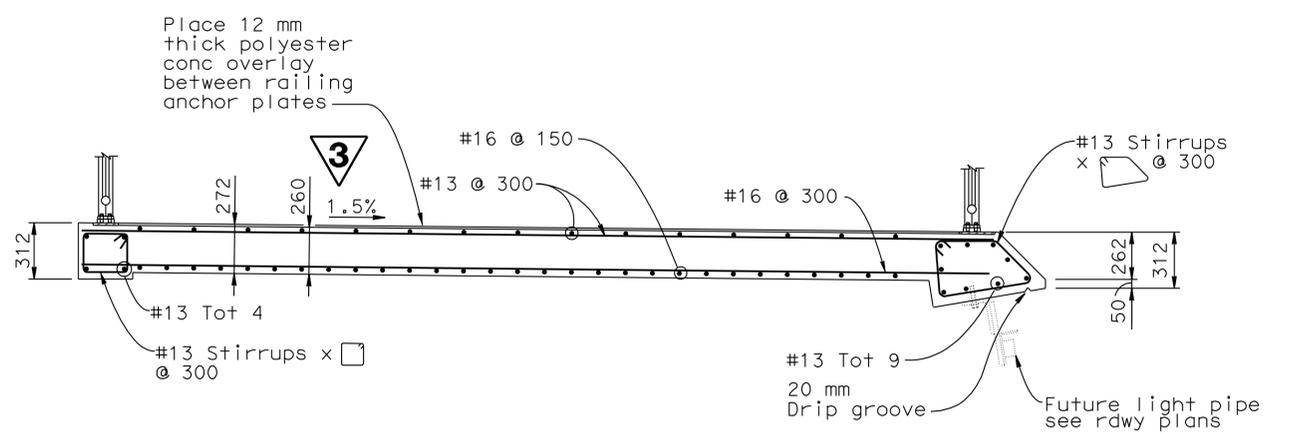


DETAIL C
No Scale



ANCHORAGE OF BIKEPATH SUPPORT BEAMS AT BENTS W3R AND W4R

(Shown at Bent W3R, similar at Bent W4R, for details not shown see "Bike Path Details No.1" sheet)
1:20



TYPICAL SECTION CIP BIKE PATH SLAB
1:20

NOTE:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material or performing any work that might thereby be affected.

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT JUAN F. CARPIO, JASON FAN SIGN OFF DATE Rev. Date: 5-18-98	DESIGN BY Atiqullah CHECKED Lee	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 34-0006 R	SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT YBI EB TRANSITION STRUCTURE (MOD) BIKE PATH DETAILS NO.4
	DETAILS BY Samson CHECKED Lee		PROJECT ENGINEER Jal Birdy	
	QUANTITIES BY Fellows CHECKED Birdy	FILE => 04-0120T1-34-006r-u-b1kpdT04.add	REVISION DATES (PRELIMINARY STAGE ONLY) 11/28/10 12/29/10 1/26/11 7/24/11 10/24/11	SHEET OF 10 20



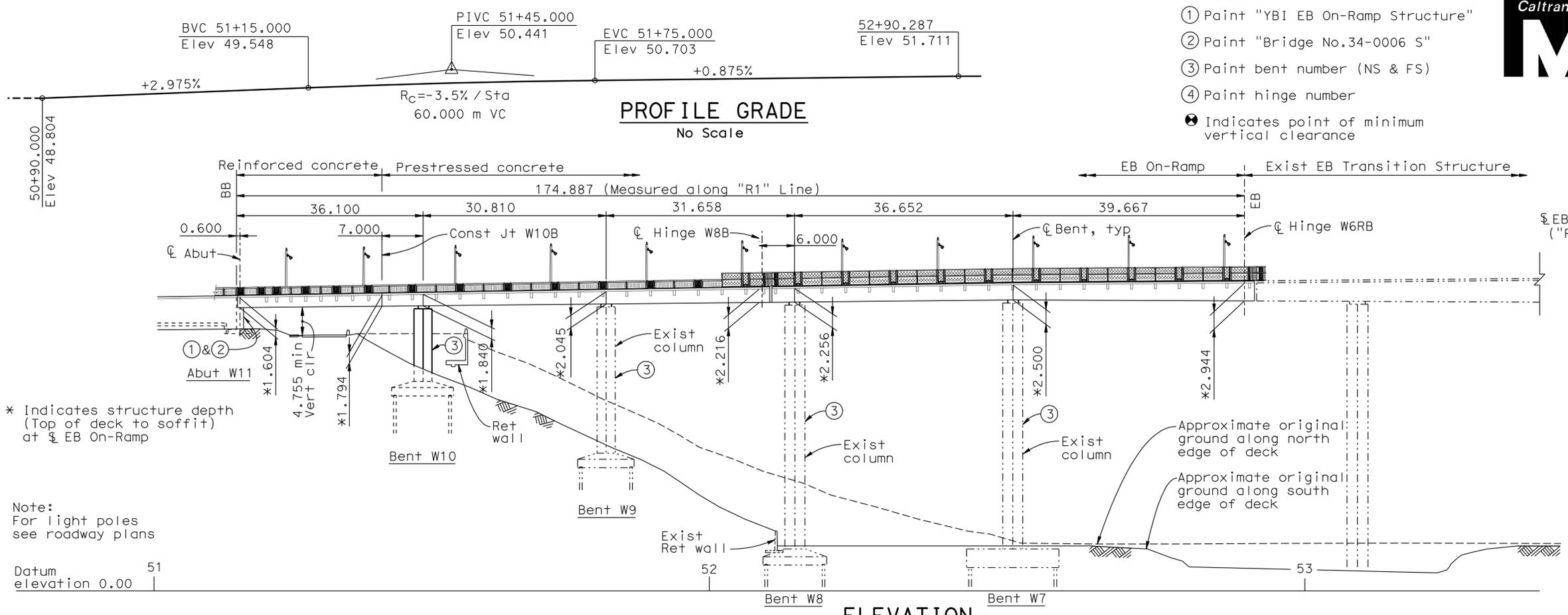
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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	666	821

11-08-11
 REGISTERED ENGINEER - CIVIL
 A.L. ELY
 No. 18880
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA

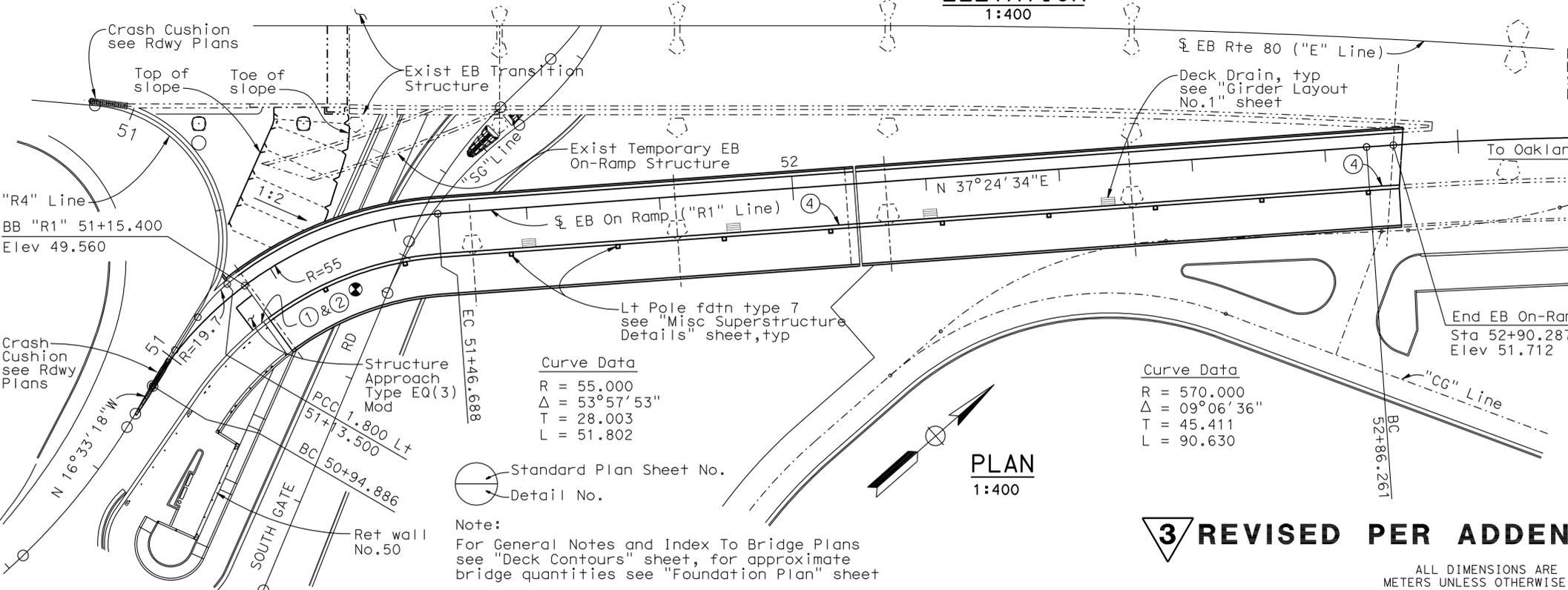
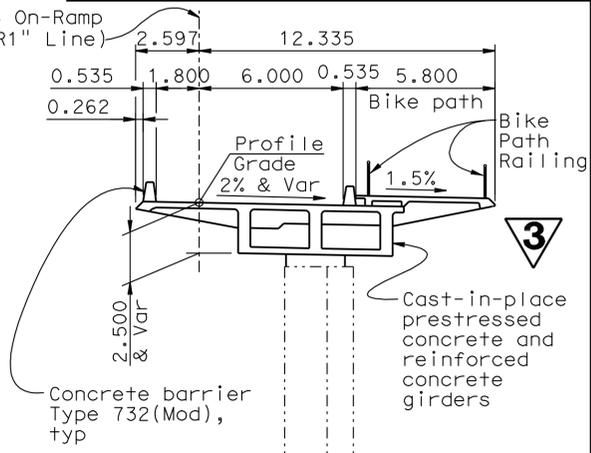
- NOTES:
- ① Paint "YBI EB On-Ramp Structure"
 - ② Paint "Bridge No.34-0006 S"
 - ③ Paint bent number (NS & FS)
 - ④ Paint hinge number
- ⊙ Indicates point of minimum vertical clearance



* Indicates structure depth (Top of deck to soffit) at § EB On-Ramp

Note:
For light poles see roadway plans

Datum elevation 0.00



Note: Exist structure to be removed not shown. See Structure Demolition Plans.

LOCATION	DESIGN LOADING	NOMINAL RESISTANCE		DESIGN TIP ELEVATION			SPECIFIED TIP ELEVATION
		COMPRESSION	TENSION	(1)	(2)	(3)	
PILE DATA							
PILE TYPE HP 360 x 132							
ABUT W11	625 KN	1250 KN	- KN	+33.5	-	+37.5	+33.5
BENT W10	720 KN	1440 KN	720 KN	+18.0	+25.0	+22.0	+18.0

Design tip elevation is controlled by the following demands:
(1) Compression, (2) Tension, (3) Lateral

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT

DESIGN OVERSIGHT
JUAN F. CARPIO, JASON FAN

DESIGN	BY Chou	CHECKED Jain
DETAILS	BY Van Ryn	CHECKED Jain
QUANTITIES	BY Chou	CHECKED Liao

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	CHECKED Jain
LAYOUT	BY Joyce	CHECKED Jain
SPECIFICATIONS	BY J.Ely	PLANS AND SPECS COMPARED Jain

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Jal Birdy
PROJECT ENGINEER

BRIDGE NO. 34-0006 S
KILOMETER POST 12.8
YBI EB ON-RAMP STRUCTURE (FINAL)
GENERAL PLAN

Rev. Date: 5-18-98



CU 04251
EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 1 OF 61
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USERNAME => 8114937 DATE PLOTTED => 04-JUN-2012 TIME PLOTTED => 06:58



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	667	821

11-08-11
 REGISTERED ENGINEER - CIVIL
 2-21-12
 PLANS APPROVAL DATE
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 T.Y. LIN / MOFFATT & NICHOL
 TWO HARRISON STREET
 SAN FRANCISCO, CA 94105



GENERAL NOTES

Load Factor Design

Design: Caltrans Design Specifications - April 2000 (LFD)
 (1996 AASHTO with interims and revisions by Caltrans)

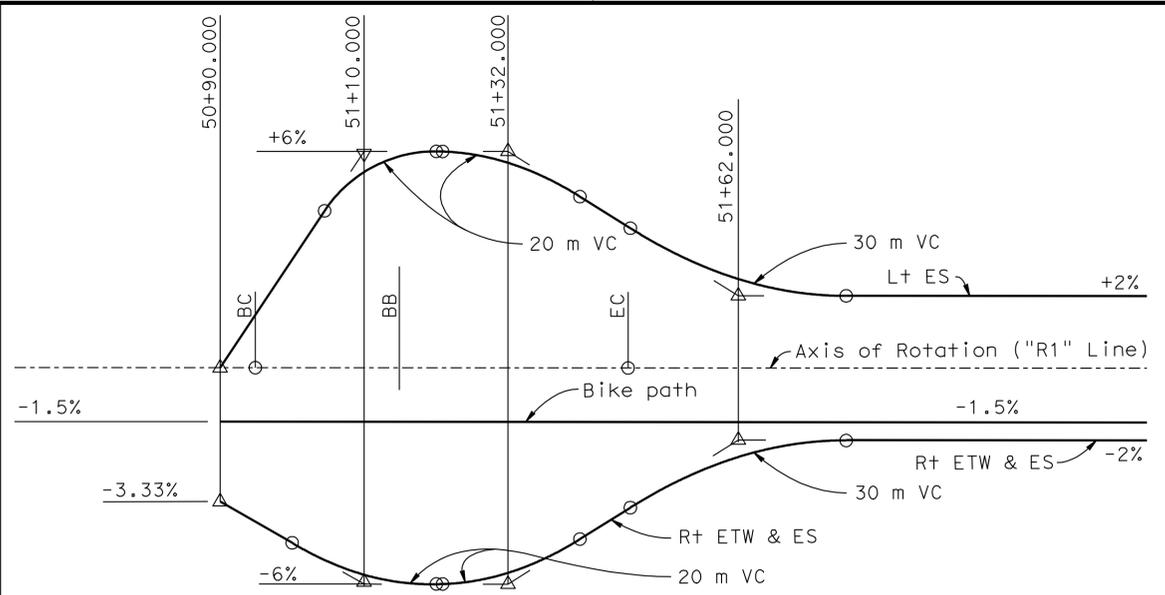
Dead Load: Includes 1675 N/m² for future wearing surface on roadbed
 Live Load: HS20-44 and alternative and permit design load
 Bike Path Live Load: 4000 N/m²

Seismic Loading: Refer to project specific seismic design criteria for San Francisco Oakland Bay Bridge, East Span Seismic Safety Project Dated 01-08-00. See "Site Specific Response Spectra"

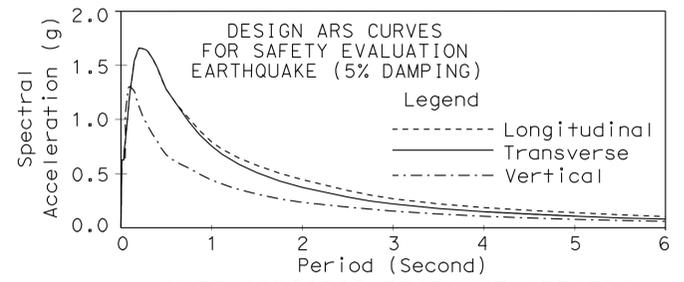
Reinforced Concrete: $F_y = 420 \text{ MPa}$
 $F'_c = 25 \text{ MPa}$
 $N = 8$

Transverse Deck Slabs (Working Stress Design)
 $F_s = 140 \text{ MPa}$
 $F_c = 8 \text{ MPa}$
 $N = 10$

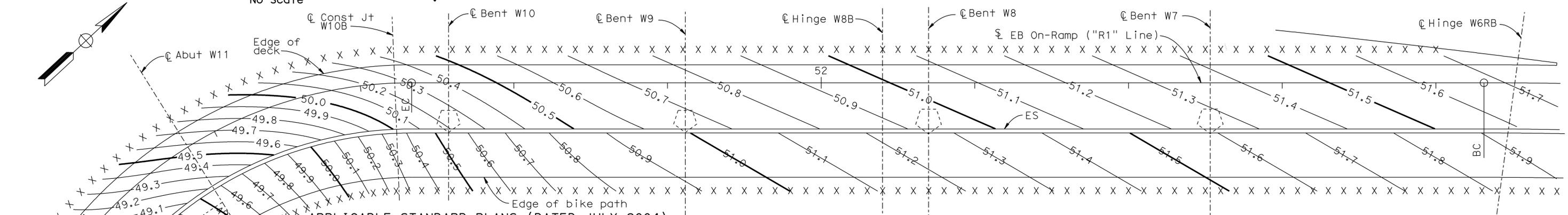
Prestressed Concrete: See "Prestressing Notes" on "Girder Layout" sheets



SUPERELEVATION DIAGRAM
 No Scale



SITE SPECIFIC RESPONSE SPECTRA



PLAN
 1:250

INDEX TO BRIDGE PLANS

APPLICABLE STANDARD PLANS (DATED JULY 2004)

- A10A ACRONYMS AND ABBREVIATIONS (A-L)
- A10B ACRONYMS AND ABBREVIATIONS (M-Z)
- A10C SYMBOLS (SHEET 1 OF 2)
- A10D SYMBOLS (SHEET 2 OF 2)
- A62B LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
- B0-1 BRIDGE DETAILS
- B0-3 BRIDGE DETAILS
- B0-5 BRIDGE DETAILS
- B0-13 BRIDGE DETAILS
- B3-1 RETAINING WALL TYPE 1 H=1200 THROUGH 9100
- B3-8 RETAINING WALL DETAILS NO.1
- B3-9 RETAINING WALL DETAILS NO.2
- B7-1 BOX GIRDER DETAILS
- B7-5 DECK DRAINS
- B7-6 DECK DRAINS TYPES D-1 AND D-2
- B7-8 DECK DRAINAGE DETAILS
- B7-10 UTILITY OPENING BOX GIRDER
- B7-11 UTILITY DETAILS
- B8-5 CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
- B14-3 COMMUNICATION AND SPRINKLER CONTROL CONDUITS
- B14-4 WATER SUPPLY LINE (BRIDGE)
- B14-5 WATER SUPPLY LINE (DETAILS) (PIPE SIZES LESS THAN NPS 4)

- | | | |
|--------------------------------------|--|--|
| 1. GENERAL PLAN | 19. TRANSVERSE BEAM DETAILS | 35. BIKE PATH EXPANSION JOINT DETAILS |
| 2. DECK CONTOURS | 20. GIRDER LAYOUT NO.1 | 36. BIKE PATH RAILING DETAILS NO.1 |
| 3. FOUNDATION PLAN | 21. GIRDER LAYOUT NO.2 | 37. BIKE PATH RAILING DETAILS NO.2 |
| 4. ABUTMENT DETAILS NO.1 | 22. MISC SUPERSTRUCTURE DETAILS | 38. BIKE PATH RAILING DETAILS NO.3 |
| 5. ABUTMENT DETAILS NO.2 | 23. GIRDER REINFORCEMENT NO.1 | 39. BIKE PATH RAILING DETAILS NO.4 |
| 6. ABUTMENT DETAILS NO.3 | 24. GIRDER REINFORCEMENT NO.2 | 40. BIKE PATH FENCE DETAILS NO.1 |
| 7. RETAINING WALL NO.50 DETAILS NO.1 | 25. HINGE W8B DETAILS NO.1 | 41. BIKE PATH FENCE DETAILS NO.2 |
| 8. RETAINING WALL NO.50 DETAILS NO.2 | 26. HINGE W8B DETAILS NO.2 | 42. BIKE PATH FENCE DETAILS NO.3 |
| 9. RETAINING WALL NO.50 DETAILS NO.3 | 27. HINGE W6RB DETAILS NO.1 | 43. BIKE PATH FENCE DETAILS NO.4 |
| 10. BENT W10 DETAILS NO.1 | 28. HINGE W6RB DETAILS NO.2 | 44. PEDESTAL FOR LIGHT POLE |
| 11. BENT W10 DETAILS NO.2 | 29. CABLE RESTRAINER UNIT - TYPE 2 | 45. CONCRETE BARRIER TYPE 732 (mod) |
| 12. BENT W9 DETAILS | 30. CABLE RESTRAINER UNIT - TYPE 2 DETAILS | 46. STRUCTURE APPROACH TYPE EQ (3) mod |
| 13. BENT W8 DETAILS | 31. SPHERICAL BEARING DETAILS | 47. STRUCTURE APPROACH DRAINAGE DETAILS |
| 14. BENT W7 DETAILS | 32. MODULAR DECK JOINT DETAILS NO.1 | 48-56. LOG OF TEST BORINGS NO.1 TO NO.9 |
| 15. MISC. BENT DETAILS | 33. MODULAR DECK JOINT DETAILS NO.2 | 57-61. "AS BUILT" LOG OF TEST BORINGS NO.1 TO NO.5 |
| 16. TYPICAL SECTION NO.1 | 34. JOINT SEAL ASSEMBLY (MAX MR=100 mm) | |

NOTES:
 Contours shown do not include camber.
 X Indicates 2 meter interval along "R1 Line"
 Contour interval shown is 0.1 m.

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT

DESIGN OVERSIGHT
Juan F. Carpio, Jason Fan
 JUAN F. CARPIO, JASON FAN

SIGN OFF DATE
 Rev. Date: 5-18-98

DESIGN	BY Chou	CHECKED Atiqullah
DETAILS	BY van Ryn/Zucchi/Mai	CHECKED Chou
QUANTITIES	BY Chou	CHECKED Liao

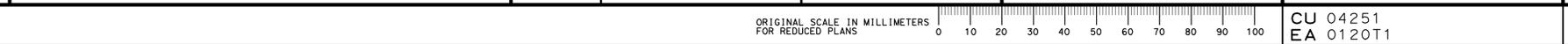
PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

Jal Birdy
 PROJECT ENGINEER

BRIDGE NO.
 34-0006 S
 KILOMETER POST
 12.8

YBI EB ON-RAMP STRUCTURE (FINAL)
DECK CONTOURS

CU 04251
 EA 0120T1



DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	1/8/11 1/24/11 10/24/11 3/14/12 3/28/12 5/28/12 2/14/13 1/28/16 11/28/16 12/28/16	2	61

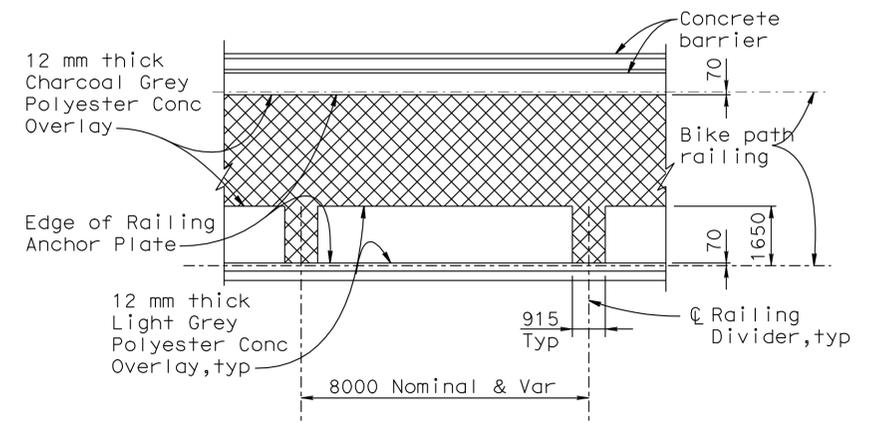
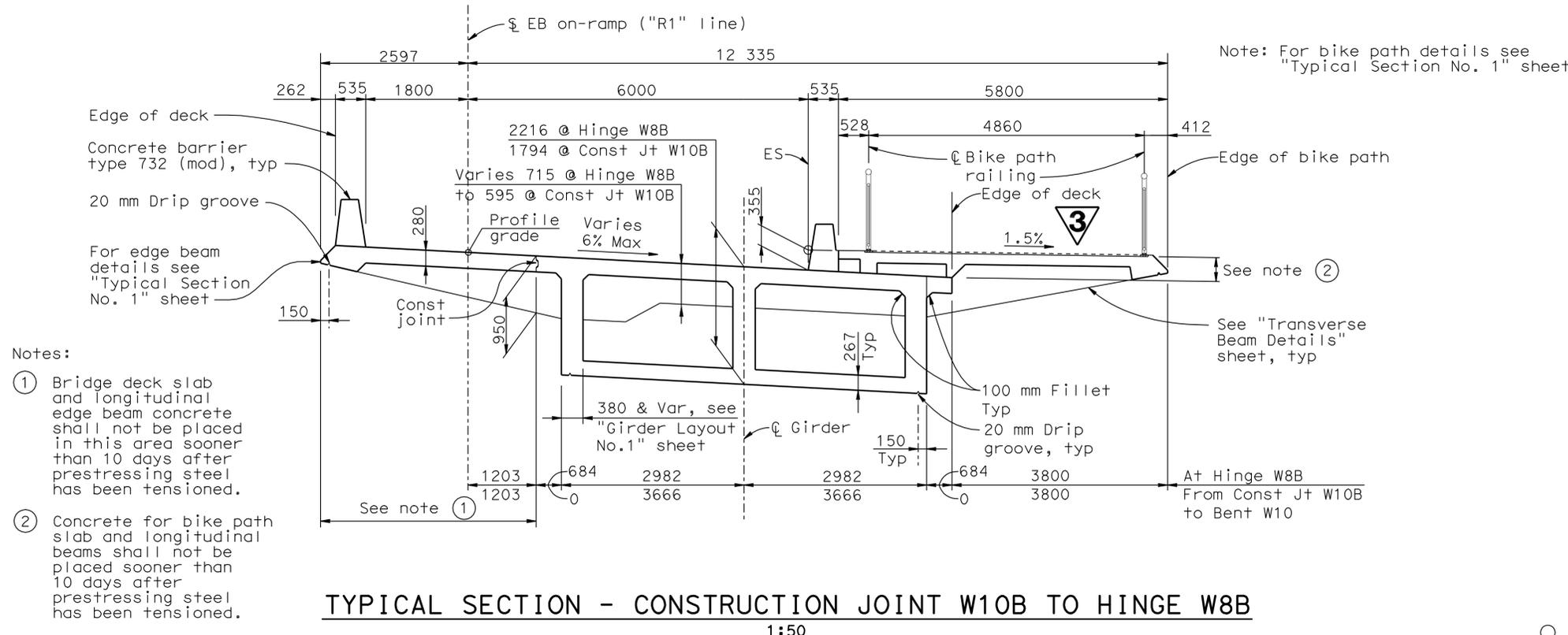
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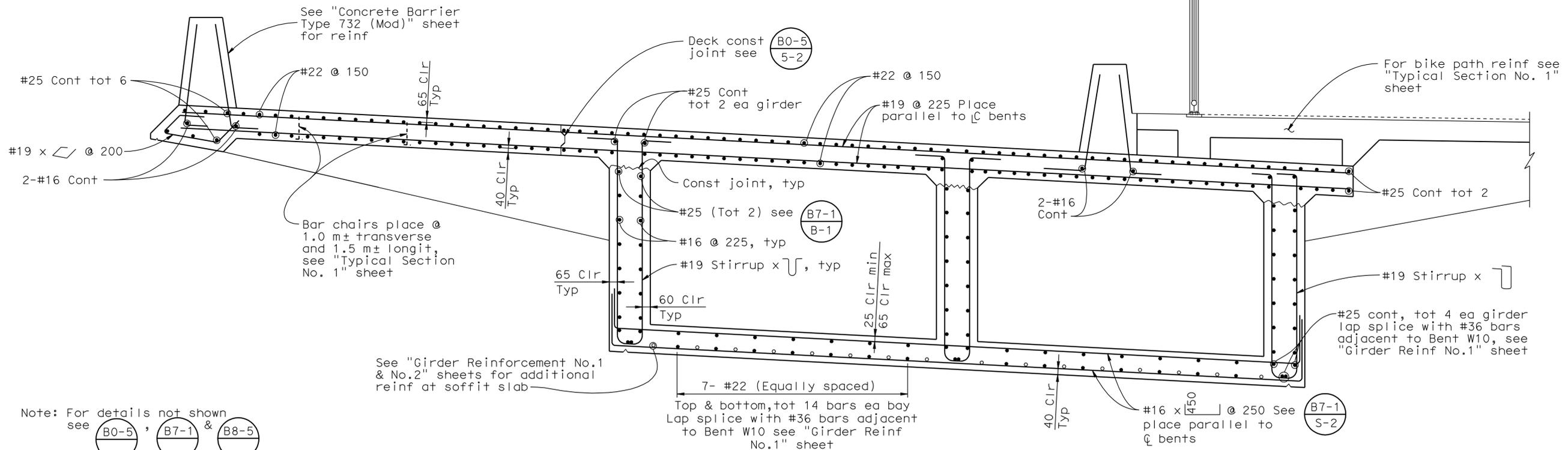
A.L. ELY	
REGISTERED ENGINEER - CIVIL	
No. 18880	
Exp. 6-30-13	
CIVIL	

2-21-12	11-08-11
PLANS APPROVAL DATE	
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T.Y. LIN / MOFFATT & NICHOL	
TWO HARRISON STREET	
SAN FRANCISCO, CA 94105	



TYPICAL SECTION - CONSTRUCTION JOINT W10B TO HINGE W8B
1:50

PLAN-BIKE PATH POLYESTER CONC OVERLAY
1:100



PART TYPICAL SECTION - CONSTRUCTION JOINT W10B TO HINGE W8B
1:20

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT
JUAN F. CARRIO, JASON FAN

DESIGN BY Chou
CHECKED Atiqullah
DETAILS BY van Ryn/Zucchi/Mai
CHECKED Chou
QUANTITIES BY Chou
CHECKED Liao

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Jal Birdy
PROJECT ENGINEER

BRIDGE NO.
34-0006 S
KILOMETER POST
12.8

**SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT**
YBI EB ON-RAMP STRUCTURE (FINAL)
TYPICAL SECTION NO.2

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

CU 04251
EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

1/24/11 10/24/11 3/14/12 3/28/12 5/28/12 2/14/13 1/27/13 12/28/10

SHEET 17 OF 61

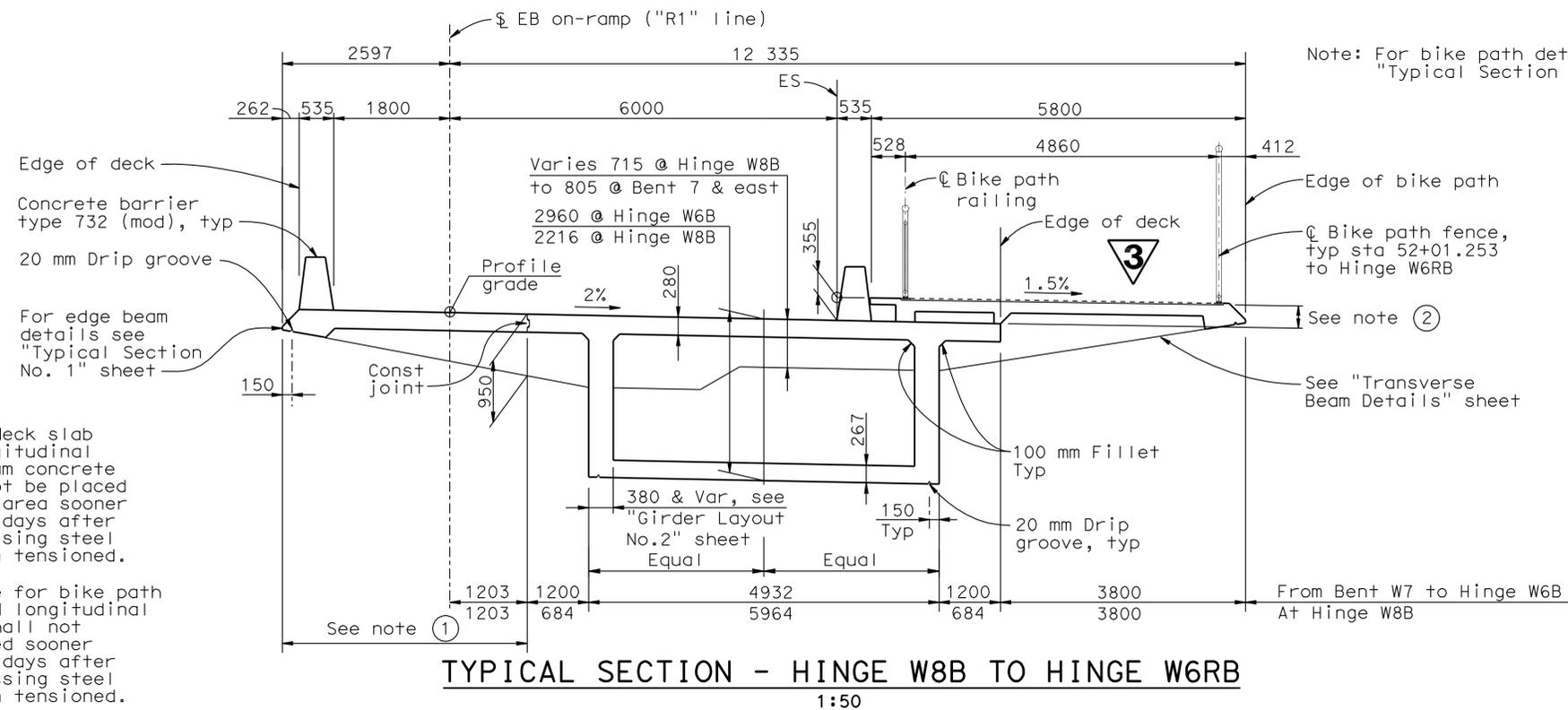
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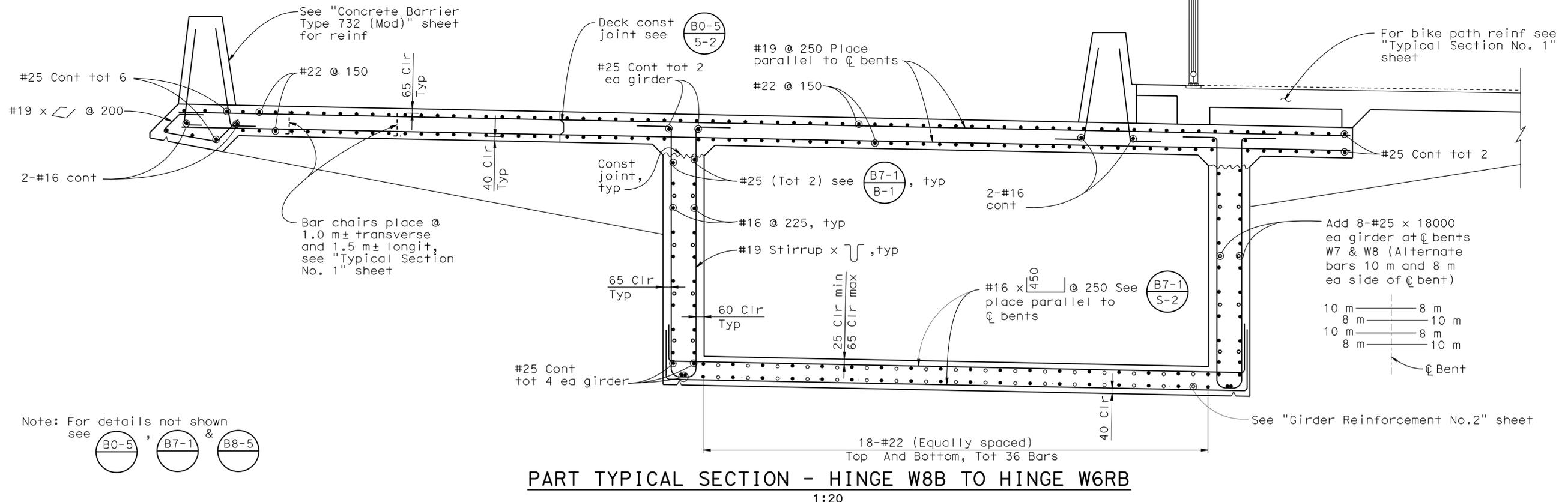
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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A.L. ELY
 REGISTERED ENGINEER - CIVIL
 No. 18880
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA

11-08-11
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 T.Y. LIN / MOFFATT & NICHOL
 TWO HARRISON STREET
 SAN FRANCISCO, CA 94105



- Notes:
- Bridge deck slab and longitudinal edge beam concrete shall not be placed in this area sooner than 10 days after prestressing steel has been tensioned.
 - Concrete for bike path slab and longitudinal beams shall not be placed sooner than 10 days after prestressing steel has been tensioned.



Note: For details not shown see B0-5, B7-1 & B8-5

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT <i>Juan F. Carpio, Jason Fan</i> JUAN F. CARPIO, JASON FAN		DESIGN BY Chou CHECKED Atiqullah	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 34-0006 S	YBI EB ON-RAMP STRUCTURE (FINAL) TYPICAL SECTION NO.3
SIGN OFF DATE	DETAILS BY van Ryn/Zucchi/Mai CHECKED Chou	QUANTITIES BY Chou CHECKED Liao	PROJECT ENGINEER Jal Birdy	KILOMETER POST 12.8	
Rev. Date: 5-18-98	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100		CU 04251 EA 0120T1	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 1/8/11 1/24/11 10/24/11 3/14/12 3/28/12 5/28/12 7/14/12 7/27/12 11/28/12 12/28/12	
			FILE => 04-0120T1-34-0006s-k-ts03.add		SHEET 18 OF 61

USERNAME => S121614 DATE PLOTTED => 04-JUN-2012 TIME PLOTTED => 07:26

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

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

Project Address: USCG Base, Yerba Buena Island San Francisco, Ca 94130 Total Hardscape Illuminated Area: 6440 (5240 under canopy and 1200 in front of it)

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 # Phone: 916-227-8668

City/State/Zip: Sacramento, Ca. 95816

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.

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				Field Inspector	
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)	Pass	Fail
L1	Surface mount soffit, 105 watt LED	Yes	105	<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 checked="" type="checkbox"/>	1	64	<input type="checkbox"/>	<input type="checkbox"/>
L2	Surface mount 4', 80 watt LED	Yes	80	<input type="checkbox"/>	<input checked="" type="checkbox"/>		80	<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:							1324	1340	

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

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:

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

James R. Lacy REGISTERED PROFESSIONAL ENGINEER 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 Approval date: 11-09-11

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

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	YERBA BUENA ISLAND TRANSITION STRUCTURES OUTDOOR LIGHTING COMPLIANCE FORMS I	SHEET EE3-0.1
DETAILS BY James R. Lacy CHECKED Ed Tapalla			KM POST 12.8		
QUANTITIES BY James R. Lacy CHECKED Javid Amirzodi					
CU 04-251 EA 04-0120TI			REVISION DATES (PRELIMINARY STAGE ONLY)		

DISREGARD PRINTS BEARING EARLIER REVISION DATES

DATE PLOTTED => 04-JUN-2012 TIME PLOTTED => 07:26 USERNAME => s114937

CERTIFICATE OF COMPLIANCE (Page 1 of 4) LTG-1C

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

Project Address: **USCG Base, Yerba Buena Island San Francisco, Ca 94130** Climate Zone: **3** Building CFA: **153 sq ft**
Unconditioned Floor Area: **0**

General Information

Building Type: Nonresidential High-Rise Residential Hotel/Motel
 Schools Relocatable Public Schools Conditioned Spaces Unconditioned Spaces

Phase of Construction: New Construction Addition Alteration

Method of Compliance: Complete Building Area Category Tailored

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* Date: **10/27/2011**

Company: **California Department of Transportation**

Address: **1801 30th Street Mail Stop 9-3/11H** City/State/Zip: **Sacramento, Ca. 95816**

If applicable: CEA # **NA** CEPE # **NA** 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 specifications 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* Date: **10/27/2011**

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

Address: **1801 30th Street Mail Stop 9-3/11H** License # **E 13770**

City/State/Zip: **Sacramento, Ca. 95816**

Lighting Mandatory Measures
 Indicate location on building plans of Mandatory Measures Note Block: **EE3-4**

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.

LTG-1C Pages 1 through 4 Certificate of Compliance. All pages required on plans for all submittals.

LTG-2C Lighting Controls Credit Worksheet

LTG-3C Indoor Lighting Power Allowance

LTG-4C Pages 1 through 4 Tailored Method Worksheet

LTG-5C Pages 1 and 2 Line Voltage Track Lighting Worksheet

2008 Nonresidential Compliance Forms

July 2010

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

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

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

Installation Certificate, LTG-1-INST (Retain a copy and verify form is completed and signed.) Field Inspector

Certificate of Acceptance, LTG-2A and LTG-3A (Retain a copy and verify form is completed and signed.) Field Inspector

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces Installed Lighting Power listed on this Lighting Schedule is only for: **CONDITIONED SPACE** **UNCONDITIONED SPACE**

The actual indoor lighting power listed below includes all installed permanent and portable lighting system in accordance with S 146 (a)

Only for offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be included in the calculation of actual indoor lighting power density in accordance with Exception to S 146 (a). All portable lighting in excess of 0.2 watts per square foot is totaled below.

A	Luminaire Schedule (Type, Lamps, Ballasts)			Installed Watts				Field 2 Inspector	
	B	C	D	E	F	G	H	Pass	Fail
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire 1	CEC Default from NA8	How wattage was determined		Number of Luminaires	Installed Watts (D x F)	Pass	Fail
				According to S 130 (d or e)					
F2	1 lamp sealed surface, F32T8, electronic ballast	32	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	32	<input type="checkbox"/>	<input type="checkbox"/>	
F1	2 lamp sealed surface, F32T8, dimming electronic ballast	66	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	132	<input type="checkbox"/>	<input type="checkbox"/>	
F3	Recessed LED fixture, 4 feet long, 25 watts	25	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	25	<input type="checkbox"/>	<input type="checkbox"/>	
F4	Recessed LED fixture, 2 x 4 feet long, 71 watts, dimming driver	71	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	142	<input type="checkbox"/>	<input type="checkbox"/>	
INSTALLED WATTS PAGE TOTAL:						164	167		

Building total number of pages: **4** Installed Watts Building Total: **164**
 (Sum of all pages) **167**

Enter into LTG-1C Page 4 of 4

1. Wattage shall be determined according to Section 130 (d and e). Wattage shall be rating of light fixture, not rating of bulb.
 2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

2008 Nonresidential Compliance Forms

July 2010

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	813	821

James R. Lacy 11/08/11
 REGISTERED ENGINEER-ELECTRICAL DATE

2-21-12
 PLANS APPROVAL DATE

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

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



3
3
3
3
3
3

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

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

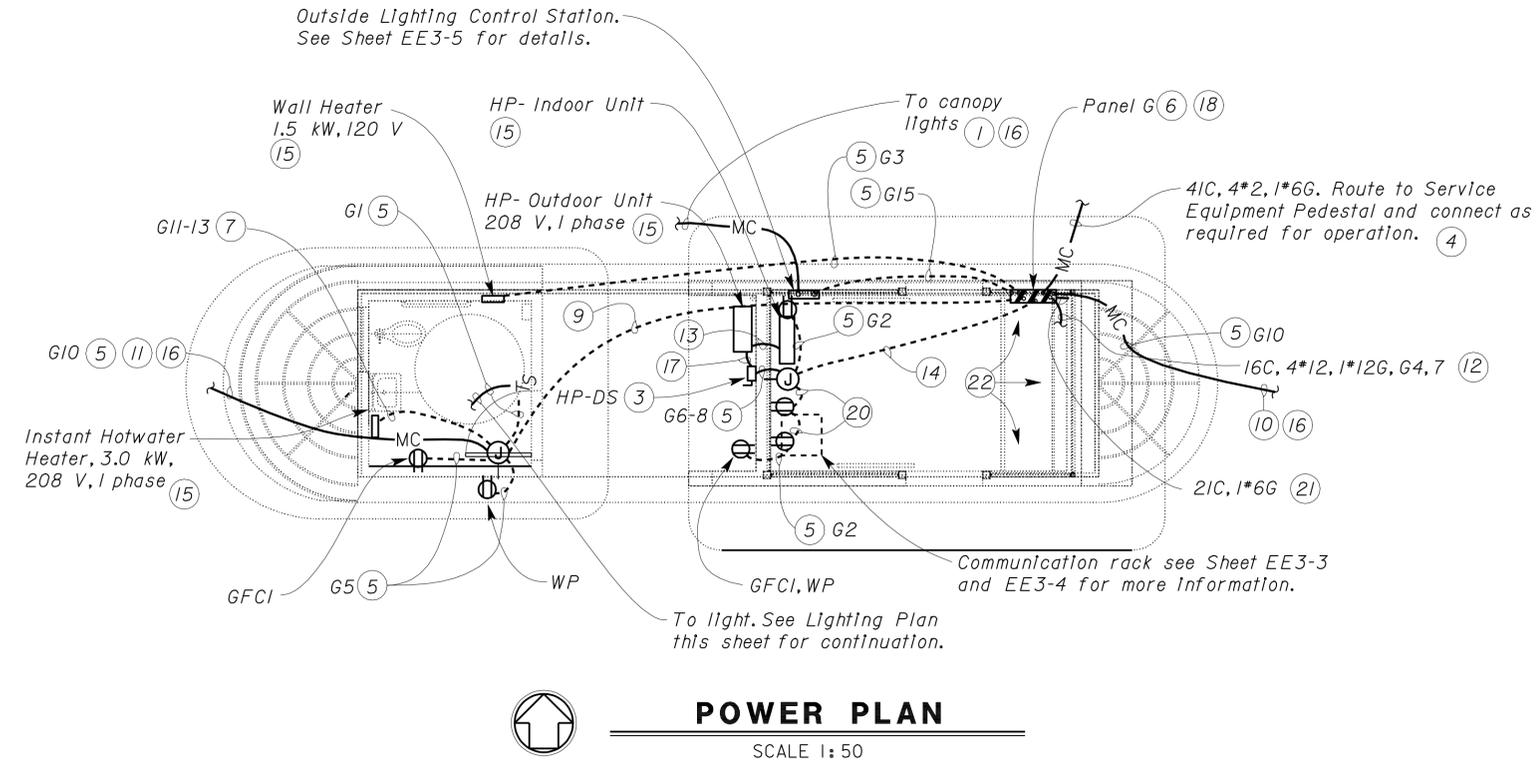
BRIDGE NO.	34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES	SHEET EE3-0.3
KM POST	12.8		
INDOOR LIGHTING COMPLIANCE FORMS I			

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

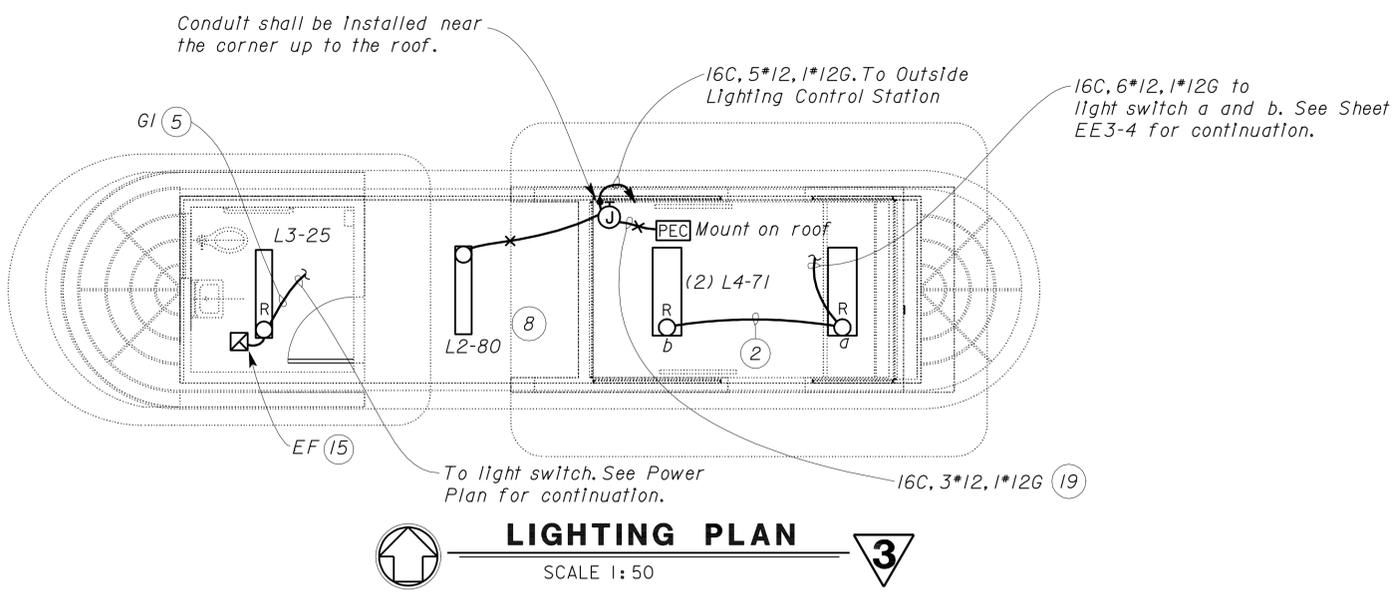
<i>James R. Lacy</i> REGISTERED ENGINEER-ELECTRICAL DATE 11/08/11		
2-21-12 PLANS APPROVAL DATE		
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 Reviewed by: *Francis Solich*
 Approval date: 11-09-11



- Notes:**
- 27C, 3*10, 1*10G.
 - 16C, the number of *12 conductors as required for dimming the fixtures.
 - Heat Pump disconnect shall be installed on this wall at a location as directed by the Engineer.
 - For continuation see Sheet EE-26.
 - 21C, 2*12, 1*12G.
 - Panel G shall be installed under the counter. For Panel schedule see sheet EE3-5.
 - 16C, 2*10, 1*12G.
 - ~~L2~~ fixture is surface mounted below the ~~roof~~ soffit.
 - 21C, 2*10, G11-13, 6*12, 1*12G, G1, 5, and 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.
 - 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.
 - Mount DPs on front of raised chase, Typ 6. See sheet EE3-4 for more information.
 - Conduit and conductors as required per Heat Pump manufacturers installation directions.
 - 21C, 6*12, 1*12G, G2, 23, 6-8
 - See Mechanical sheets for more details.
 - See EE3-1 for continuation.
 - 16C, liquid tight flexible metallic conduit, 2*12, 1*12G, G6-8.
 - Route 21C, 1*4G to nearby ground bar and bond. See Structural sheets for location.
 - Roof mounted conduit goes to JB. Seal roof penetrations.
 - 21C, 4*12, 1*12G, G2, 23.
 - To Ground bar and bond *6 conductor.
 - 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.

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

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 ALL DIMENSIONS SHOWN IN MILLIMETERS, EXCEPT AS NOTED

DESIGN BY: James R. Lacy CHECKED: Javid Amirzodi DETAILS BY: James R. Lacy CHECKED: Ed Tapalla QUANTITIES 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	YERBA BUENA ISLAND TRANSITION STRUCTURES		SHEET EE3-2
			KM POST 12.8	PERMANENT GUARD BOOTH	GUARD BOOTH POWER AND LIGHTING PLAN	
DOS ELEC (10/98) FILE => ee3_02.add DATE PLOTTED => 04-JUN-2012 TIME PLOTTED => 08:48 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	

USERNAME => s121614 DATE PLOTTED => 04-JUN-2012 TIME PLOTTED => 08:48

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

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

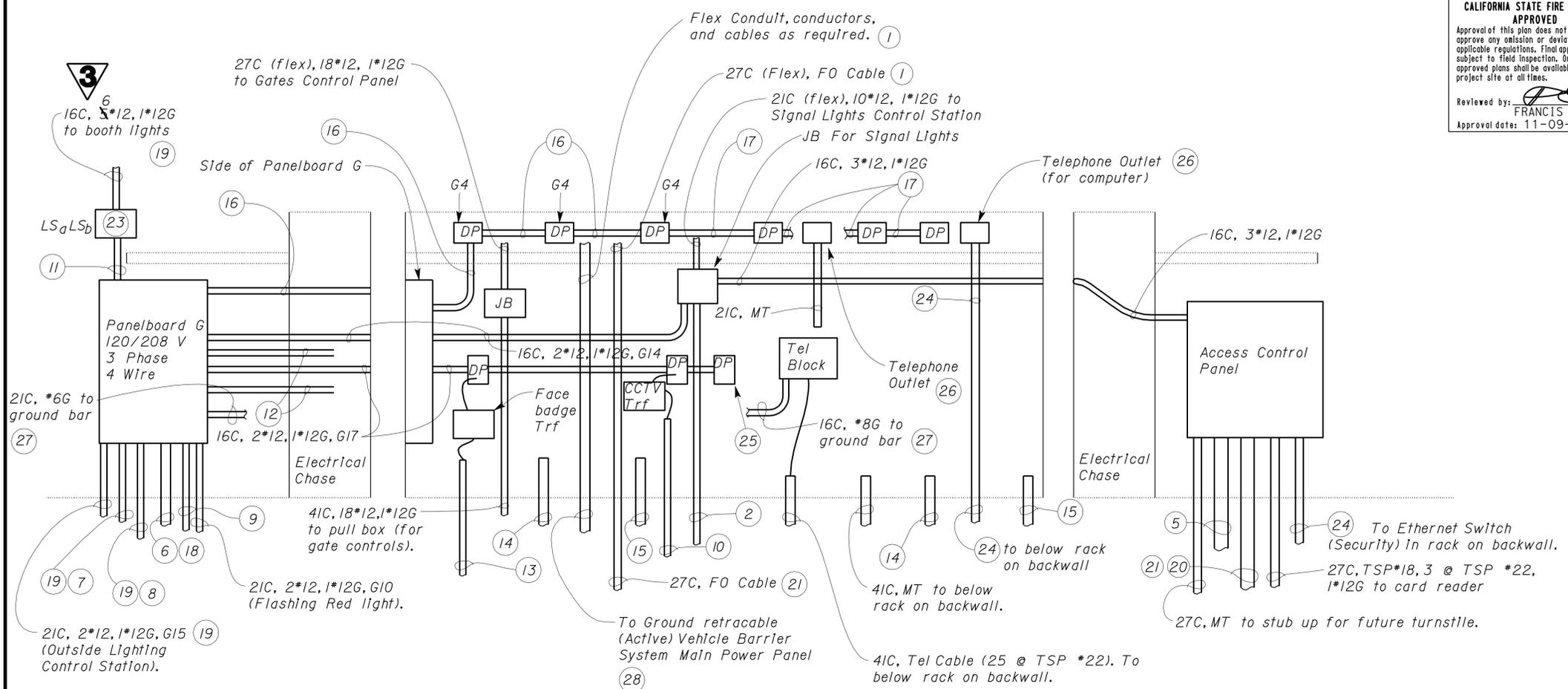
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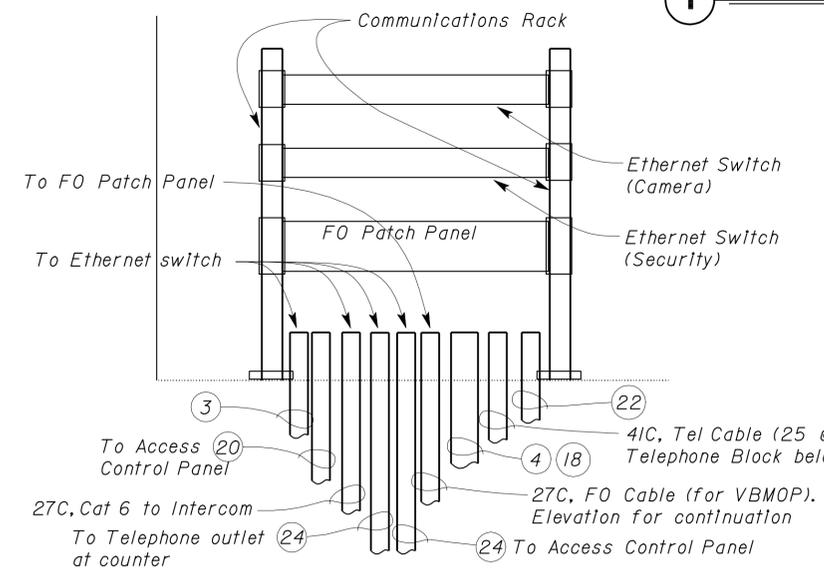
Reviewed by:
 FRANCIS SOLICH
 Approval date: 11-09-11



- 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, G1, 5, 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 LED 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.

LEFT SIDE FRONT RIGHT SIDE

1 COUNTER ELEVATIONS
NO SCALE



2 COMMUNICATION RACK ELEVATION
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.

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

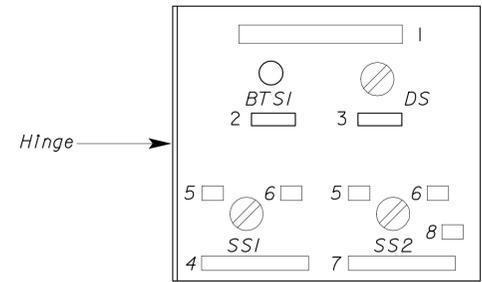
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DETAILS	BY James R. Lacy	CHECKED Ed Tapalla			KM POST	12.8		PERMANENT GUARD BOOTH	GUARD BOOTH ELEVATIONS	EE3-4
QUANTITIES	BY James R. Lacy	CHECKED Javid Amirazodi			REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET	OF	

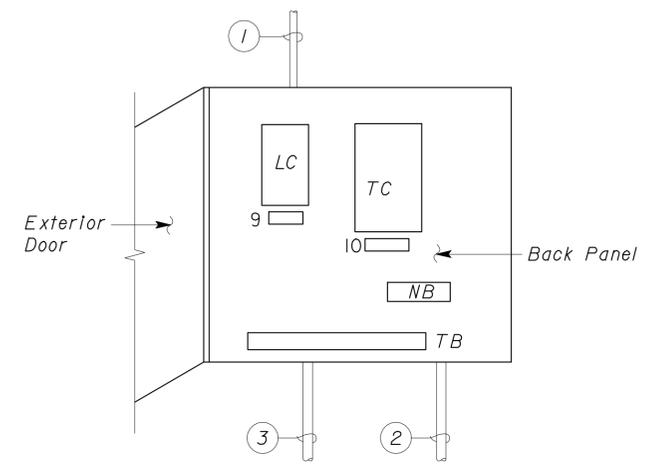
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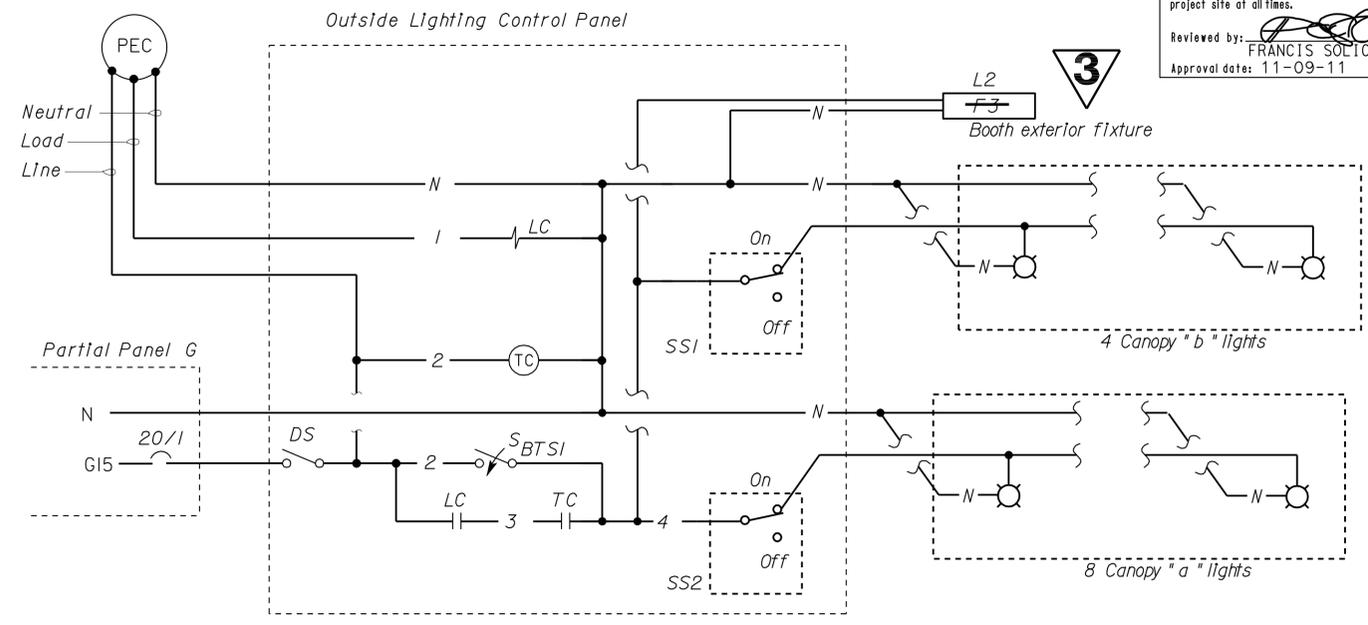
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 Approval date: 11-09-11



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	

3 REVISED PER ADDENDUM No. 3 DATED JUNE 6, 2012

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DESIGN	BY James R. Lacy	CHECKED Javid Amirazodi	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		PERMANENT GUARD BOOTH	EE3-5
QUANTITIES	BY James R. Lacy	CHECKED Javid Amirazodi		PROJECT NUMBER & PHASE 0400000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DOS ELEC (10/98) FILE => ee3_05.add DATE PLOTTED => 04-JUN-2012 TIME PLOTTED => 07:57 ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100 UNIT PROJECT NUMBER & PHASE 3598 0400000271 REVISION DATES (PRELIMINARY STAGE ONLY) 10/9/05 10/28/05 6/20/06 7/3/06 12/14/07 11/9/10 2/7/11 5/26/11 6/23/11 11/08/11

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