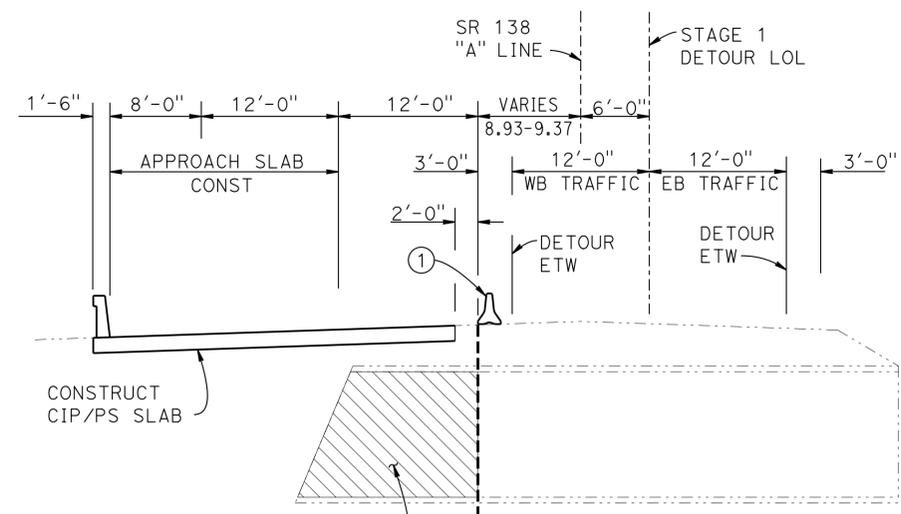
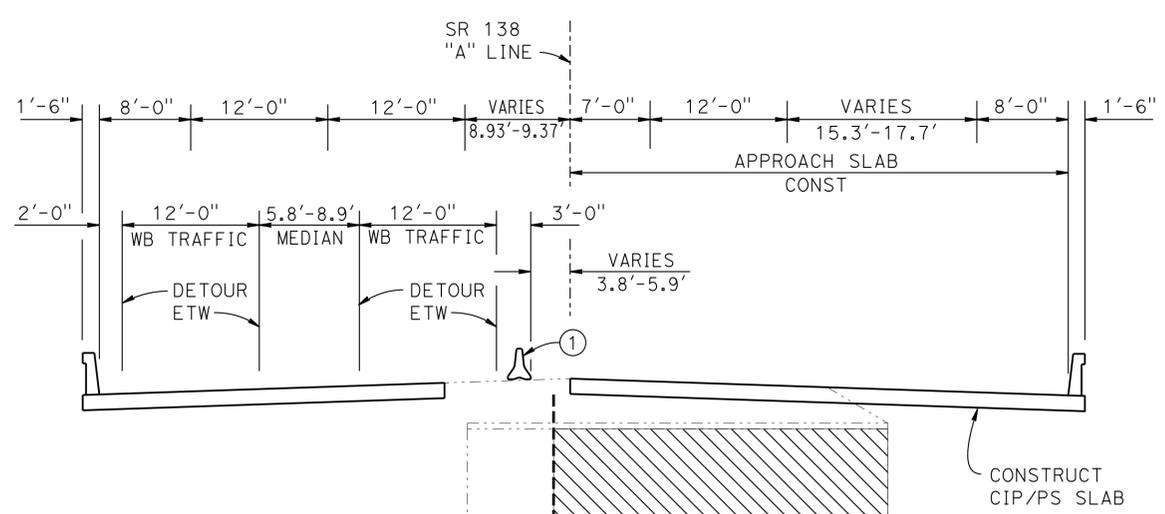


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4 2.3/R15.2	1122	1168
Jonathan Szabo			06-23-2014	REGISTERED CIVIL ENGINEER DATE	
3-3-14			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



**4** REMOVE EXIST RCB CULVERT SEE "ROADWAY PLANS"

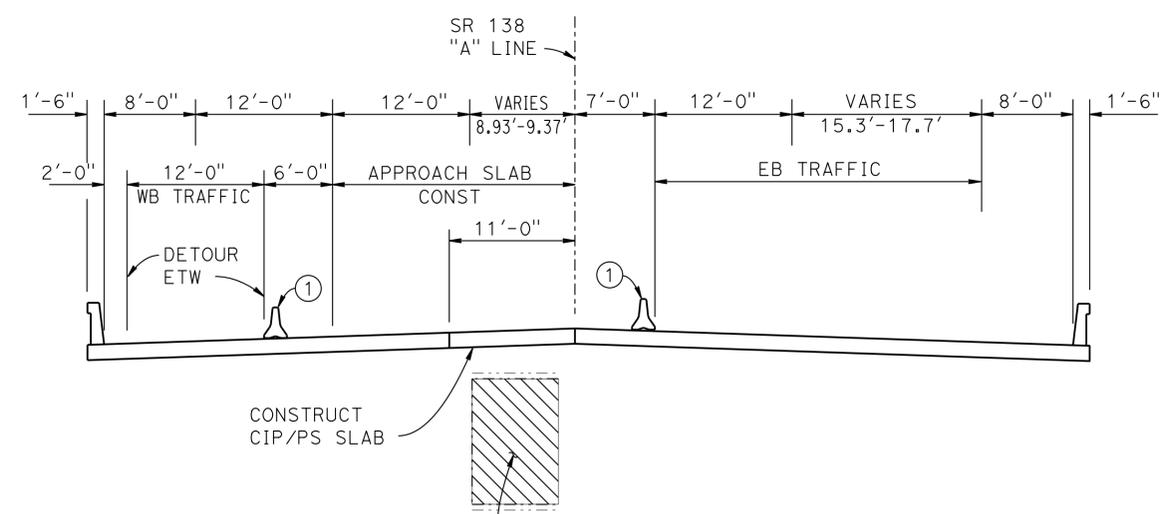
**STAGE 1 - PHASE B CONSTRUCTION**  
1/8" = 1'-0"



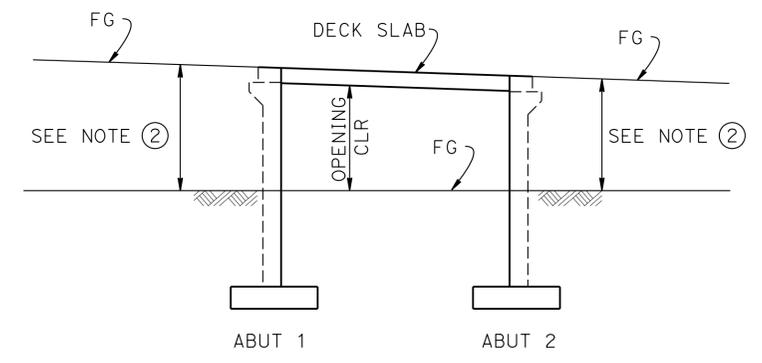
**STAGE 2 - PHASE A CONSTRUCTION**  
1/8" = 1'-0"

- NOTES:**
- ① Temporary Railing Type K
  - ② Simultaneously backfill upper portion of both abutments after placement of rigid deck slabs

- LEGEND:**
- Indicates concrete removal portion
  - Indicates Existing Structure
  - Indicates New Structure



**STAGE 2 - PHASE B CONSTRUCTION**  
1/8" = 1'-0"



**BACKFILL CONSTRUCTION STAGING**  
NO SCALE

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

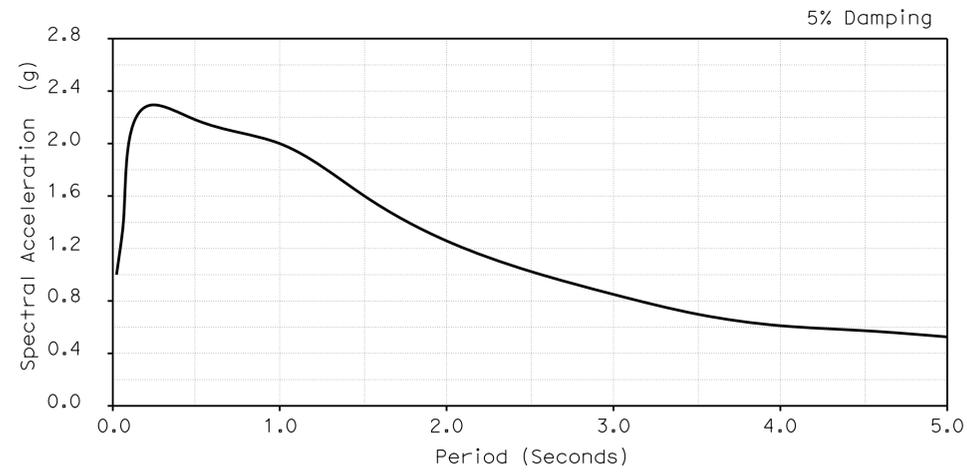
**4** REPLACED PER ADDENDUM No. 4 DATED JUNE 27, 2014

**4** NOTE:  
Removal of Reinforced Concrete Box Culvert, see "ROADWAY PLANS".

DESIGN	BY	J. Szabo	CHECKED	F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54-1288	WILDLIFE UNDERCROSSING NO. 2 CONSTRUCTION STAGING PLAN	
	DETAILS	BY	R. Kirkland	CHECKED			F. Chen	POST MILE		13.9
	QUANTITIES	BY	J. Szabo	CHECKED			F. Chen	UNIT: 3589 PROJECT NUMBER & PHASE: 0800000609 1		CONTRACT NO.: 08-3401U1
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)										
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3					
FILE => 54-1288-a-gp02.add REVISION DATES: 11-19-12, 11-19-13, 12-26-13 SHEET 2 OF 18										

### SPREAD FOOTING DATA TABLE

Support Location	Working Stress Design (WSD)		Load and Resistance Factor Design (LRFD)		
	Permissible Gross Contact Stress (Settlement) (ksf)	Allowable Gross Bearing Capacity (ksf)	Service Permissible Net Contact Stress (Settlement) (ksf)	Strength Factored Gross Nominal Bearing Resistance $\phi_b = X$ (ksf)	Strength Factored Gross Nominal Bearing Resistance $\phi_b = 1.00$ (ksf)
Abut 1	5.4	5.4	5.4	N/A	N/A
Abut 2	5.4	5.4	5.4	N/A	N/A



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4 2.3/R15.2	1123	1168

Jonathan Szabo 06-23-2014  
 REGISTERED CIVIL ENGINEER DATE  
 3-3-14  
 PLANS APPROVAL DATE  
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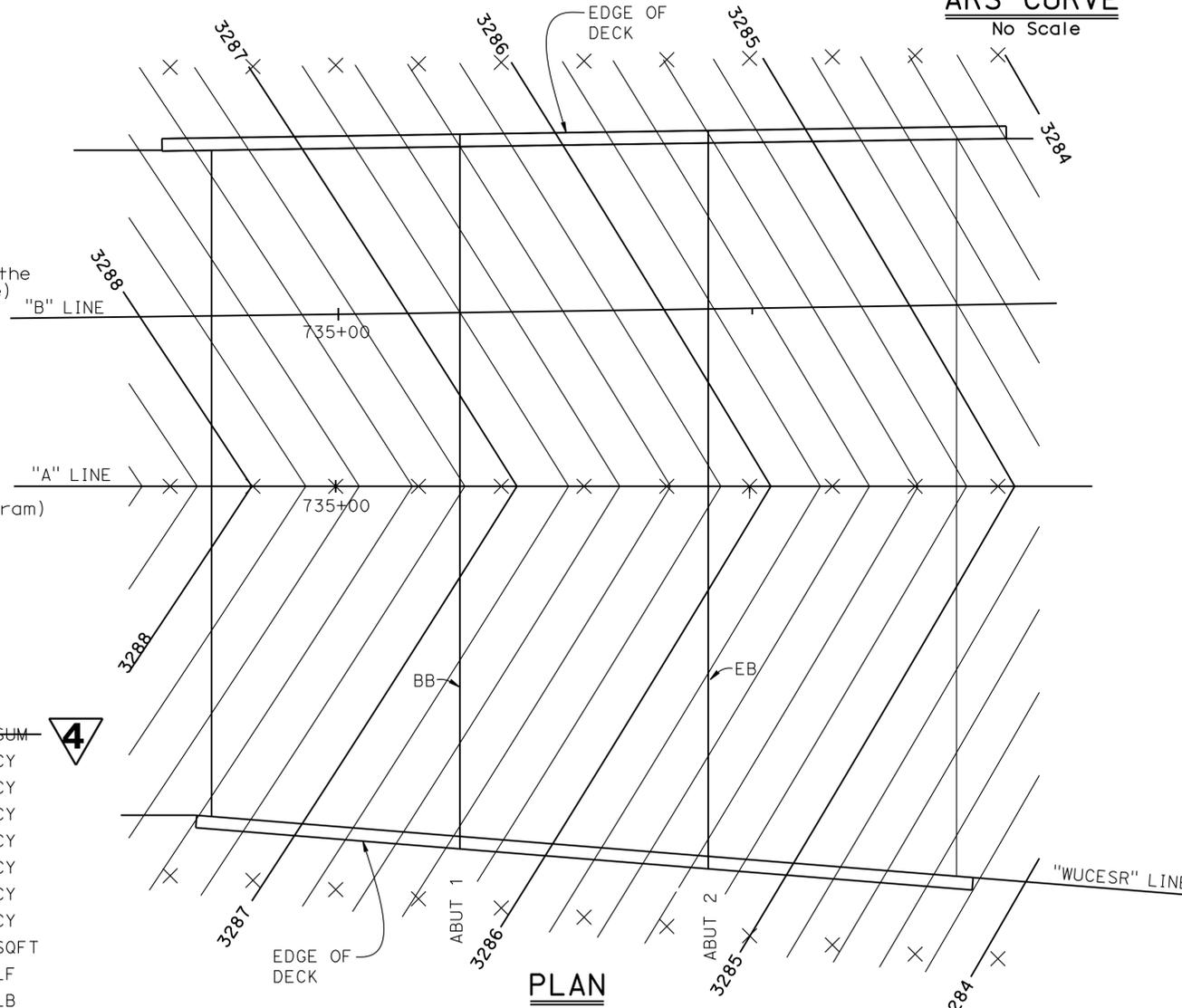
### GENERAL NOTES

#### LOAD AND RESISTANCE FACTOR DESIGN

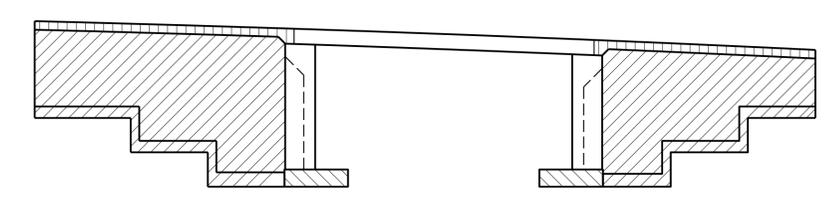
- DESIGN:** AASHTO LRFD Bridge Design Specifications, 4th Edition and the Caltrans Amendments, preface dated 2010.  
**SEISMIC DESIGN:** Caltrans Seismic Design Criteria (SDC) version 1.6 dated November 2010  
**DEAD LOAD:** Includes 35 PSF future wearing surface. The deck load between the girders has been increased by a factor of 10% to allow for the use of steel deck forms, (where appropriate)  
**LIVE LOAD:** HL93 and permit design load.  
**SEISMIC LOADING:** Soil Profile:  $V_{s30} = 320$  m/s  
 Moment Magnitude:  $M_{max} = 7.8$   
 Peak Ground Acceleration = 1.1g  
**REINFORCED CONCRETE:** ASTM A706  
 $f_y = 60$  ksi  
 $f'_c = 3.6$  ksi (except as shown on Concrete Strength and Type Limits Diagram)  
**SPREAD FOOTING:** SEE "SPREAD FOOTING DATA TABLE"

#### QUANTITIES

REMOVE REINFORCED CONCRETE BOX CULVERT (LS)	LUMP	SUM	
STRUCTURE EXCAVATION (TYPE D)	4,046	CY	<b>4</b>
STRUCTURE BACKFILL (BRIDGE)	1,660	CY	
STRUCTURE BACKFILL (RETAINING WALL)	1,490	CY	
STRUCTURAL CONCRETE, BRIDGE FOOTING	268	CY	
STRUCTURAL CONCRETE, BRIDGE	514	CY	
STRUCTURAL CONCRETE, RETAINING WALL	324	CY	
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N MODIFIED)	224	CY	
CONCRETE SURFACE TEXTURE	3,248	SQFT	
JOINT SEAL (MR $\frac{1}{2}$ " )	169	LF	
BAR REINFORCING STEEL (BRIDGE)	183,284	LB	
BAR REINFORCING STEEL (RETAINING WALL)	55,058	LB	
BAR REINFORCING STEEL (EPOXY COATED) (BRIDGE)	34,350	LB	
PREPARE AND STAIN CONCRETE	4,261	SQFT	
CONCRETE BARRIER (TYPE 736 MODIFIED)	196	LF	



- NOTES:**
- X = 10 ft intervals along Station Line
  - Contour intervals = 0.20 ft
  - Contours do not include Camber



- CONCRETE STRENGTH AND TYPE LIMITS**  
No Scale
- Structural Concrete, Bridge (4000 psi at 28 days)
  - Structural Concrete, Bridge Footing (3600 psi at 28 days)
  - Structural Concrete, Approach Slab (3600 psi at 28 days)
  - Structural Concrete, Retaining Wall (3600 psi at 28 days)

**4** NOTE: Removal of Reinforced Concrete Box Culvert, see "ROADWAY PLANS".

**4** REPLACED PER ADDENDUM No. 4  
DATED JUNE 27, 2014

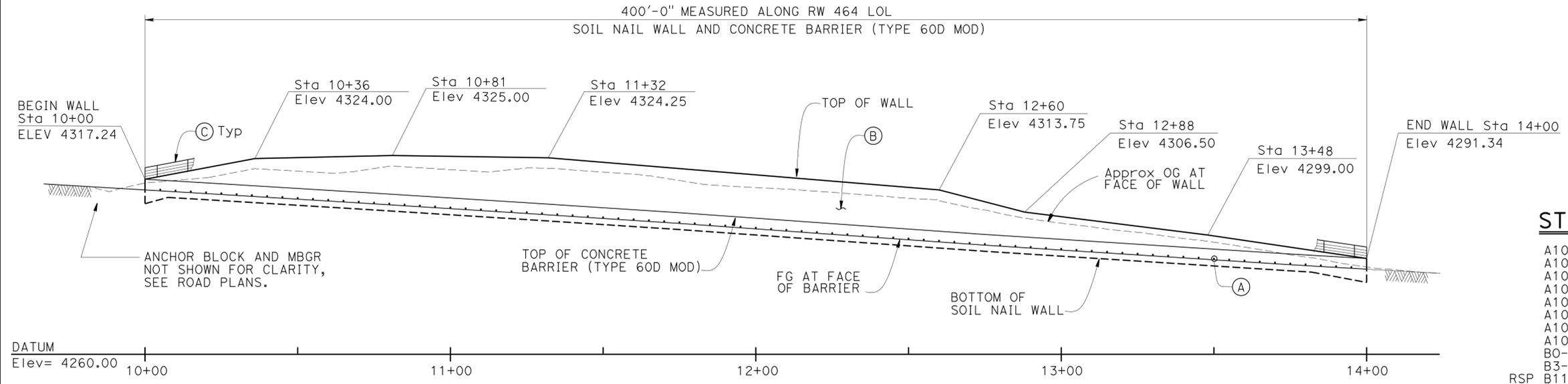
DESIGN	BY J. Szabo	CHECKED F. Chen
DETAILS	BY R. Kirkland	CHECKED F. Chen
QUANTITIES	BY J. Szabo	CHECKED F. Chen

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES  
 STRUCTURE DESIGN  
 DESIGN BRANCH 19

BRIDGE NO. 54-1288  
 POST MILE 13.9  
**WILDLIFE UNDERCROSSING NO. 2**  
**DECK CONTOURS**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBD	2,138	6.2/6.4, 2.3/R15.2	1158	1168

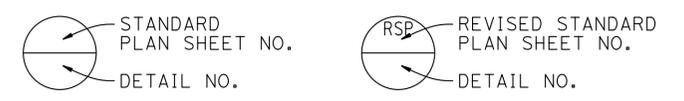
REGISTERED CIVIL ENGINEER DATE 06-23-2014  
 B. R. GUNTER  
 No. C. 66195  
 Exp. 06-30-14  
 CIVIL  
 STATE OF CALIFORNIA  
 3-3-14  
 PLANS APPROVAL DATE  
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**MIRRORED DEVELOPED ELEVATION**  
1" = 20'

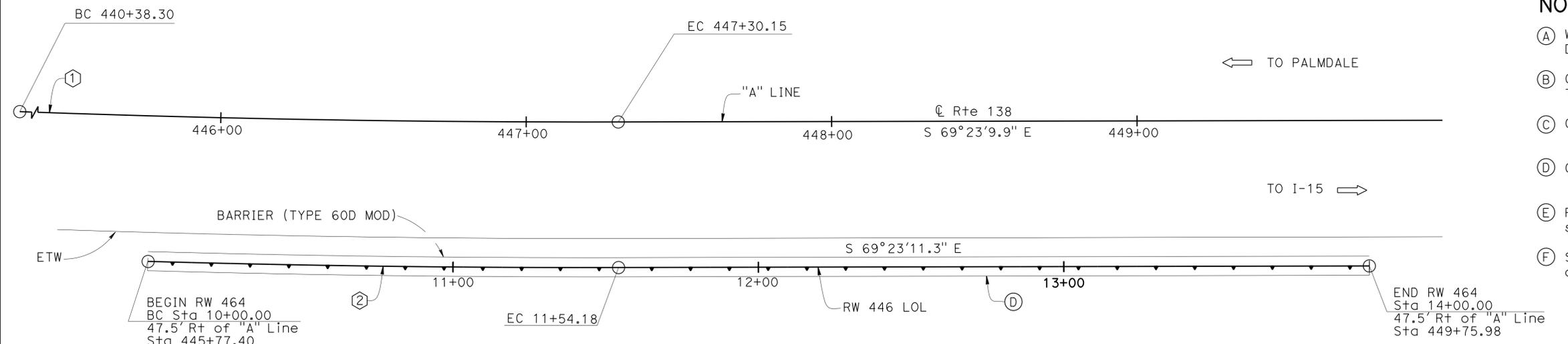
**STANDARD PLANS DATED 2010**

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10C LINES AND SYMBOLS (SHEET 1 OF 3)
- A10D LINES AND SYMBOLS (SHEET 2 OF 3)
- A10E LINES AND SYMBOLS (SHEET 3 OF 3)
- A10F LEGEND-SOIL (SHEET 1 OF 2)
- A10G LEGEND-SOIL (SHEET 2 OF 2)
- A10H LEGEND-ROCK
- B0-3 BRIDGE DETAILS
- B3-6 RETAINING WALL DETAIL NO. 2
- RSP B11-47 CABLE RAILING



**NOTES:**

- (A) Weephole between Soil Nails, see "MISCELLANEOUS DETAILS" sheet.
- (B) Concrete Surface Texture, see "ARCHITECTURAL TREATMENT" sheets.
- (C) Cable Railing RSP B11-47
- (D) Gutter B3-6
- (E) For GENERAL NOTES, see "SOIL NAIL WALL DETAILS" sheet.
- (F) Stain all exposed concrete to 1' below top of concrete barrier.



**PLAN**  
1" = 20'

**QUANTITIES**

STRUCTURE EXCAVATION (SOIL NAIL WALL)	432 CY
STRUCTURE BACKFILL (SOIL NAIL WALL)	35 CY
SOIL NAIL	5,548 LF
STRUCTURAL CONCRETE, RETAINING WALL	193 CY
CONCRETE SURFACE TEXTURE	5,199 SQFT
BAR REINFORCING STEEL (RETAINING WALL)	35,551 LB
SHOTCRETE	84 CY
PREPARE AND STAIN CONCRETE	5,189 SQFT
<del>GEOCOMPOSITE DRAIN</del>	<del>4,644 SQFT</del>
MINOR CONCRETE (GUTTER) (CY)	14 CY
CABLE RAILING	400 LF
CONCRETE BARRIER TYPE 60D (MODIFIED)	400 LF

**INDEX TO PLANS**

Sheet No.	Title
1	GENERAL PLAN
2	FOUNDATION PLAN
3	SOIL NAIL ELEVATION NO. 1
4	SOIL NAIL ELEVATION NO. 2
5	SOIL NAIL WALL DETAILS
6	SOIL NAIL ASSEMBLY
7	MISCELLANEOUS DETAILS
8	ARCHITECTURAL TREATMENT NO. 1
9	ARCHITECTURAL TREATMENT NO. 2
10	ARCHITECTURAL TREATMENT DETAIL
11	LOG OF TEST BORINGS

**4 REPLACED PER ADDENDUM No. 4 DATED JUNE 27, 2014**

**CURVE DATA**

No.	R	Δ	T	L
①	5085.292'	07°47'42.0"	346.459'	691.849'
②	5132.422'	01°43'16.3"	77.096'	154.180'

**LEGEND:**

➡ Indicates direction of traffic flow

B. Gunter DESIGN ENGINEER	DESIGN BY A. Vega	CHECKED W. Hsia	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN <b>DESIGN BRANCH 19</b>	BRIDGE NO. 54E0121	<b>RETAINING WALL NO. 446</b> <b>GENERAL PLAN</b>
	DETAILS BY S. Pink/ M. Tran/ H. I.	CHECKED W. Hsia	LAYOUT BY S. Pink	CHECKED A. Vega			POST MILE 8.5	
	QUANTITIES BY H. Win	CHECKED V. Altamirano	SPECIFICATIONS BY S. Seifert	PLANS AND SPECS COMPARED W. Siu				

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 UNIT: 3621 PROJECT NUMBER & PHASE: 0100000609 - 1 CONTRACT NO.: 08-3401U1  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 REVISION DATES: 04/05/13, 05/05/13, 08/02/13, 08-28-13  
 SHEET 1 OF 11

USERNAME => s121614 DATE PLOTTED => 26-JUN-2014 TIME PLOTTED => 14:06