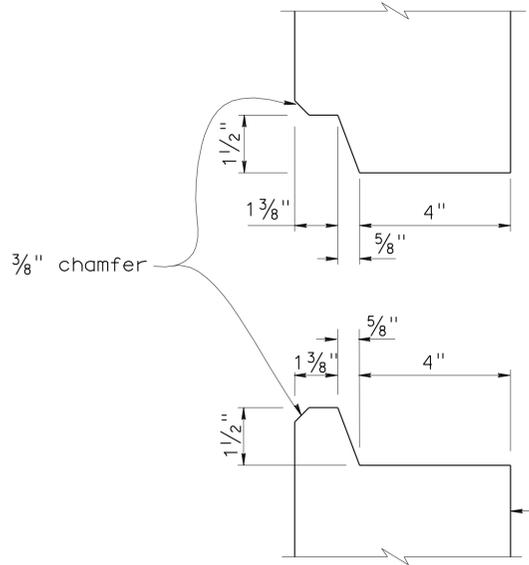


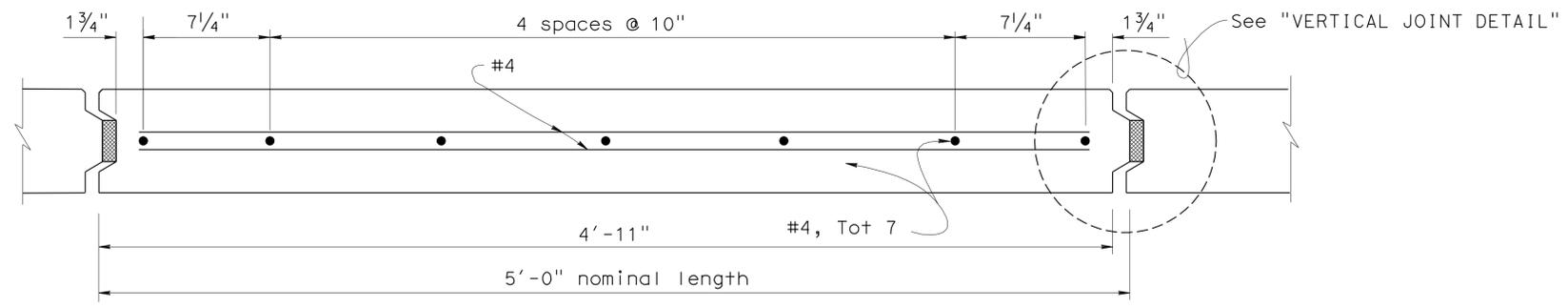
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	501	602

Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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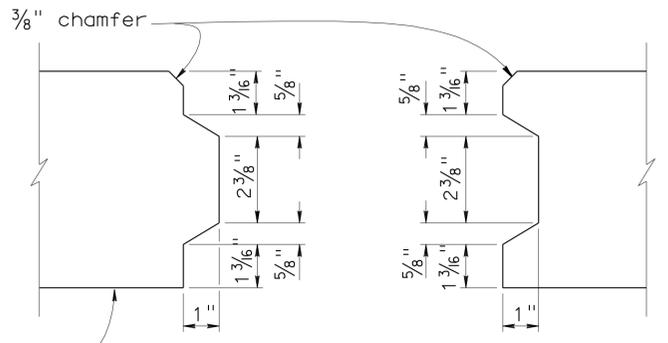
REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



HORIZONTAL JOINT DETAIL
No Scale

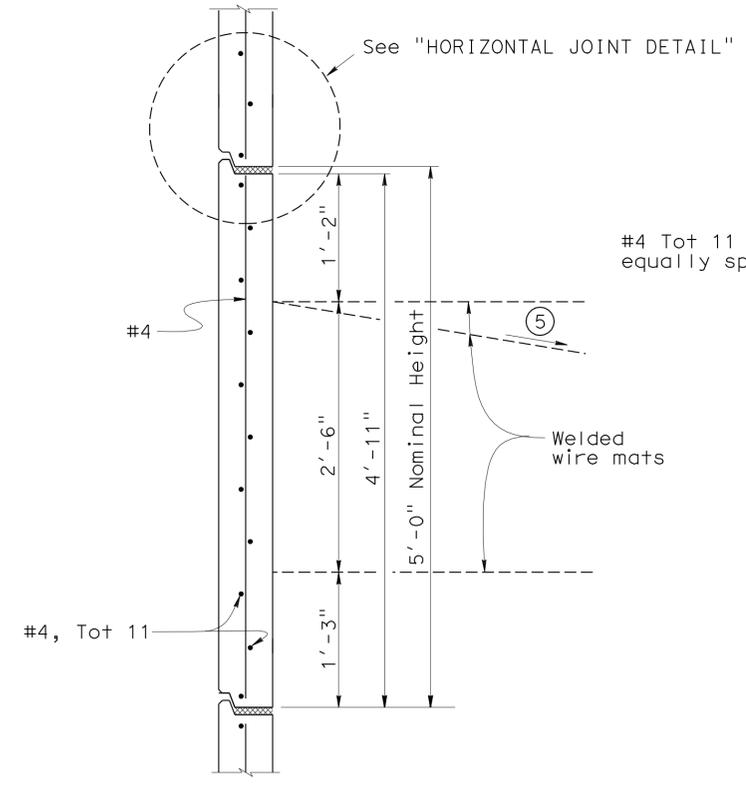


PLAN - FACE PANEL
No Scale

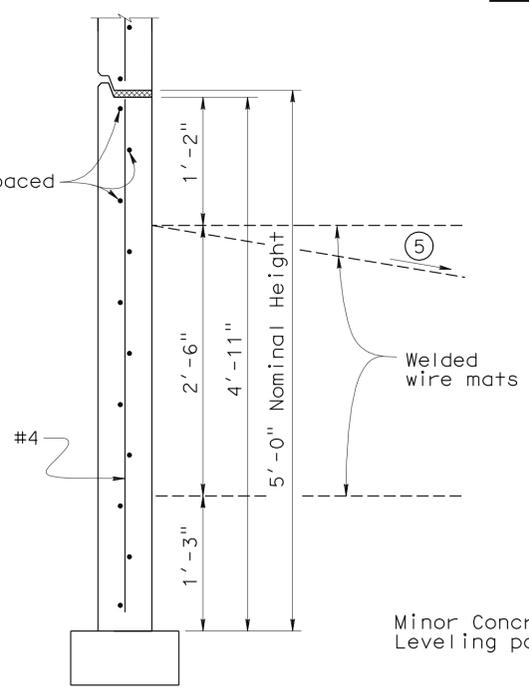


VERTICAL JOINT DETAIL
No Scale

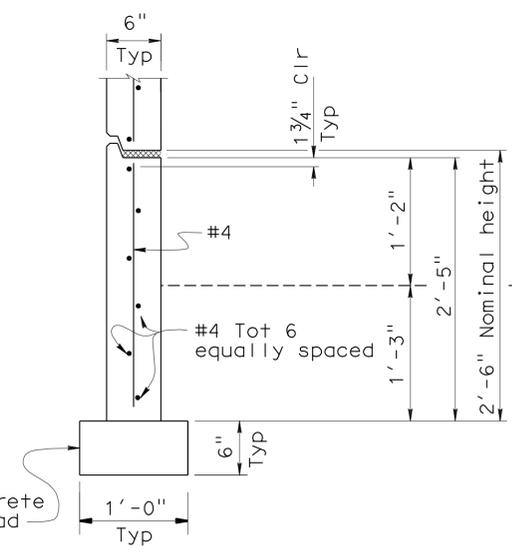
- Notes:
- ① Architectural treatment not shown.
 - ② Place reinforced elastomeric bearing pads in all of the panel joints between the panels. Place one in each vertical joint where the horizontal joint intersects it. Place two per panel in each horizontal joint. 3/4" x 2 3/8" x 6" for vertical joints. 7/4" x 4" x 6" for horizontal joints.
 - ③ Bond a strip of filter fabric, 1'-0" wide, over the full length of all panel joints.
 - ④ Top welded wire mat shall be sloped as required to clear roadway section.
 - ⑤ 2nd to top welded wire mat shall be sloped down as required to maintain 6" Min separation from other mats.
 - ⑥ Dimension = 6" minimum when bottom welded wire mat is omitted.



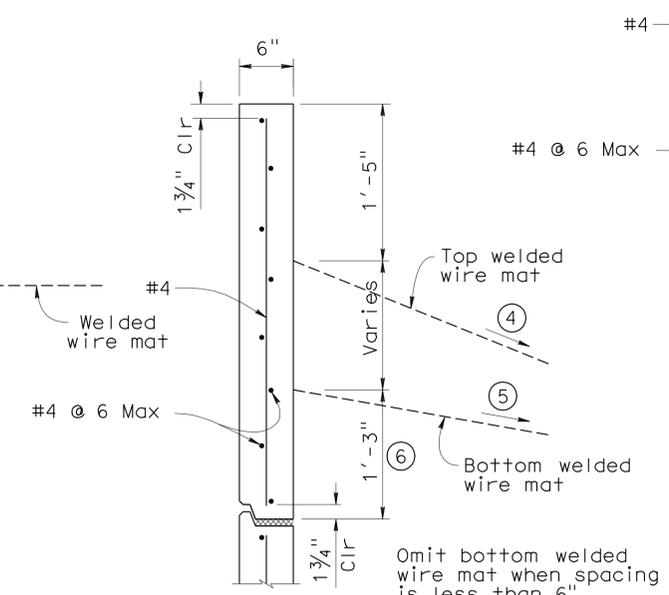
INTERMEDIATE PANEL
No Scale



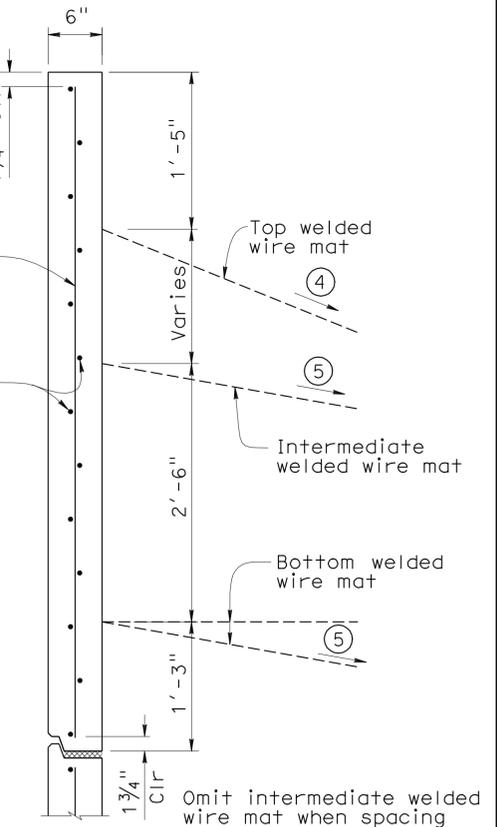
BOTTOM PANEL
No Scale



BOTTOM HALF PANEL
No Scale



TYPE "A" PANEL
No Scale

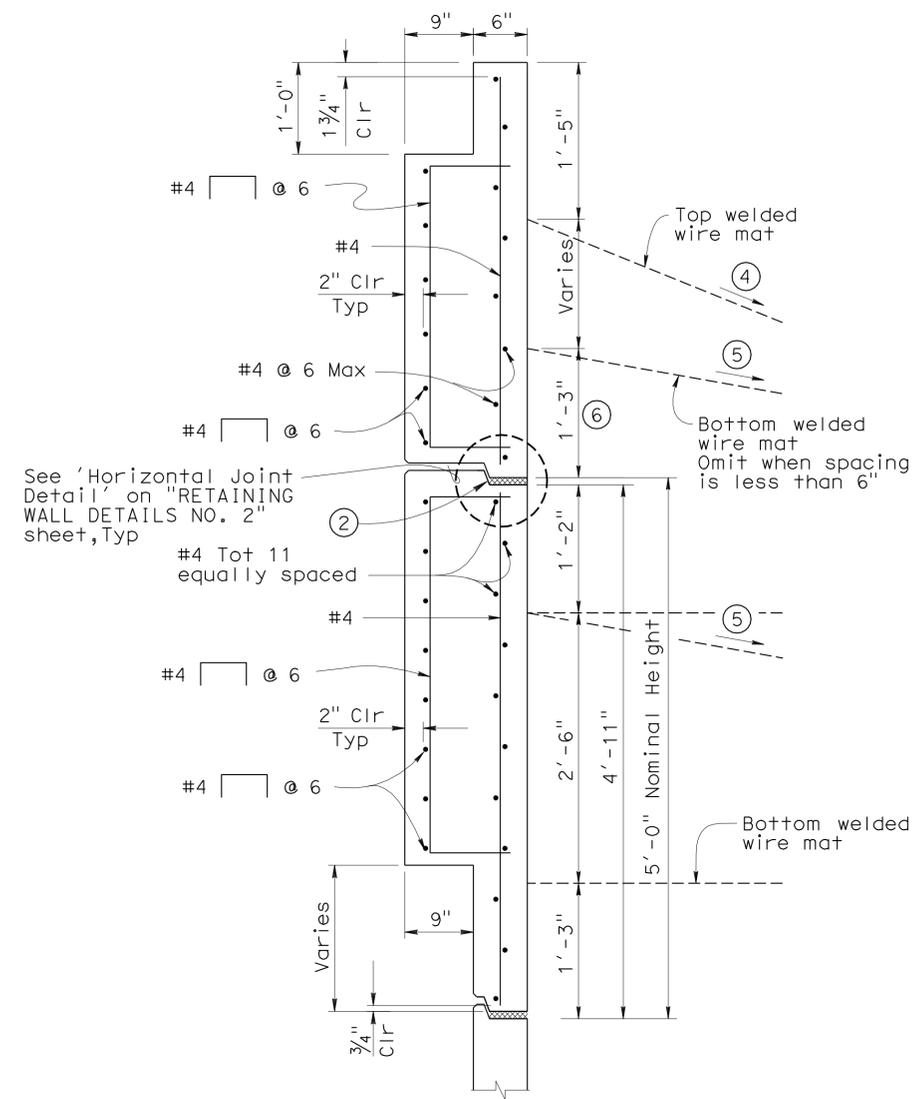


TYPE "B" PANEL
No Scale

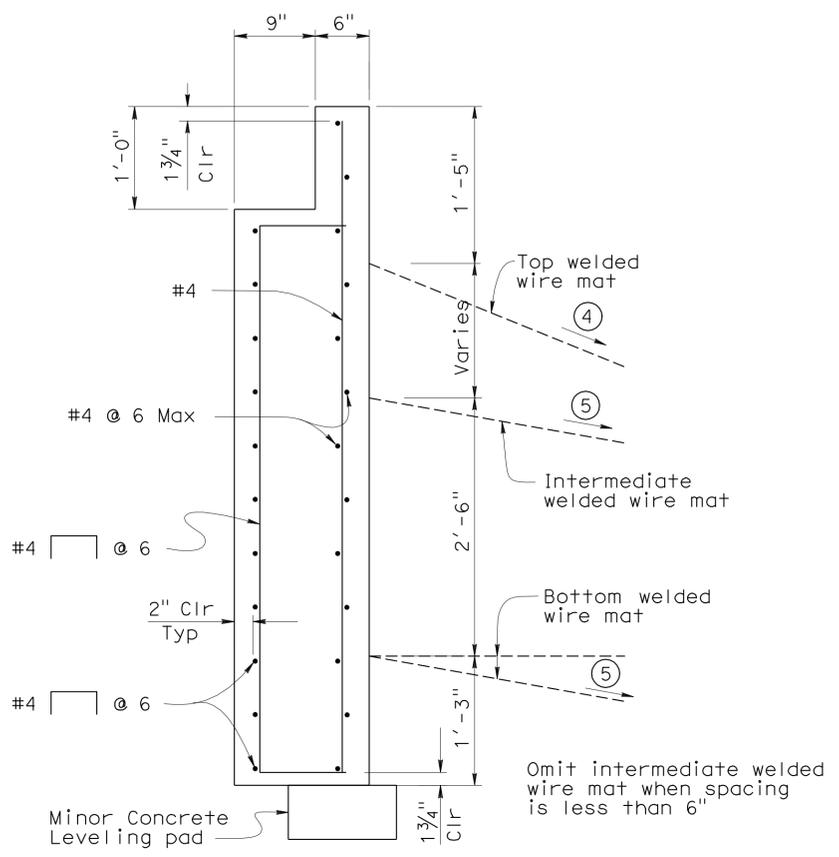
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DESIGN</td> <td style="width: 30%;">BY Mark Okimura</td> <td style="width: 30%;">CHECKED Ubong Inyang</td> </tr> <tr> <td>DETAILS</td> <td>BY David Elliott</td> <td>CHECKED Ubong Inyang</td> </tr> <tr> <td>QUANTITIES</td> <td>BY Tony Yoon</td> <td>CHECKED Loren Goldthwait</td> </tr> </table>	DESIGN	BY Mark Okimura	CHECKED Ubong Inyang	DETAILS	BY David Elliott	CHECKED Ubong Inyang	QUANTITIES	BY Tony Yoon	CHECKED Loren Goldthwait	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0151 POST MILE 1.68	RETAINING WALL NO. 1 RETAINING WALL DETAILS NO. 2	SHEET 5 OF 15
DESIGN	BY Mark Okimura	CHECKED Ubong Inyang												
DETAILS	BY David Elliott	CHECKED Ubong Inyang												
QUANTITIES	BY Tony Yoon	CHECKED Loren Goldthwait												
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		DISREGARD PRINTS BEARING EARLIER REVISION DATES										
		CU 07227 EA 215911		REVISION DATES										
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2-10-10	4-15-10	5-11-10	5-19-10	3-22-11										

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	502	602

REGISTERED CIVIL ENGINEER DATE 3-2-11
 6-27-11
 PLANS APPROVAL DATE
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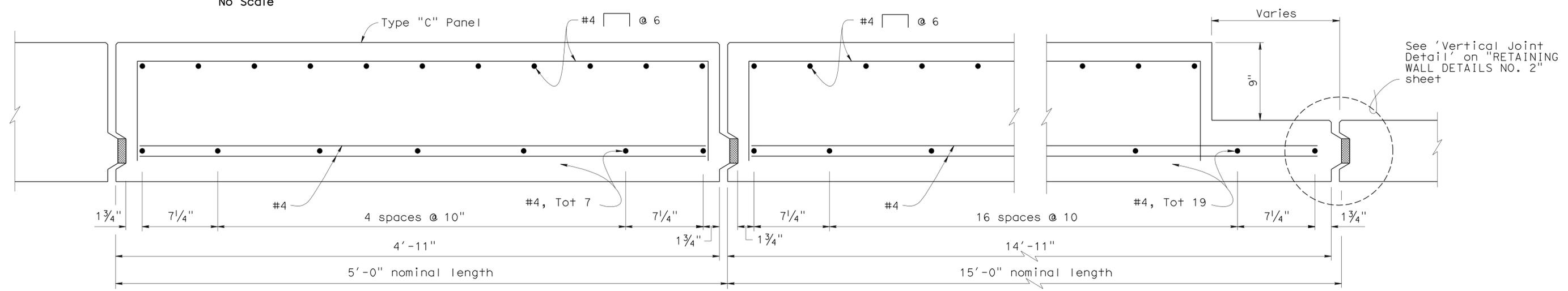
15' WIDE PANEL
No Scale



TYPE "C" PANEL
No Scale

Notes:

- ① Architectural treatment not shown.
- ② Place reinforced elastomeric bearing pads in all of the panel joints between the panels. Place one in each vertical joint where the horizontal joint intersects it. Place four per 15' wide panel in each horizontal joint. $\frac{3}{4}$ " x $2\frac{3}{8}$ " x 6" for vertical joints. $\frac{3}{4}$ " x 4" x 6" for horizontal joints.
- ③ Bond a strip of filter fabric, 1'-0" wide, over the full length of all panel joints.
- ④ Top welded wire mat shall be sloped as required to clear roadway section.
- ⑤ 2nd to top welded wire mat shall be sloped down as required to maintain 6" min separation from other mats.
- ⑥ Dimension = 6" minimum when bottom welded wire mat is omitted.



PLAN - TYPE "C" & 15' WIDE FACE PANEL
No Scale

DESIGN	BY Phu Nguyen	CHECKED Mark Okimura
DETAILS	BY Pauline Tong	CHECKED Ubong Inyang
QUANTITIES	BY Tony Yoon	CHECKED Loren Goldthwait

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

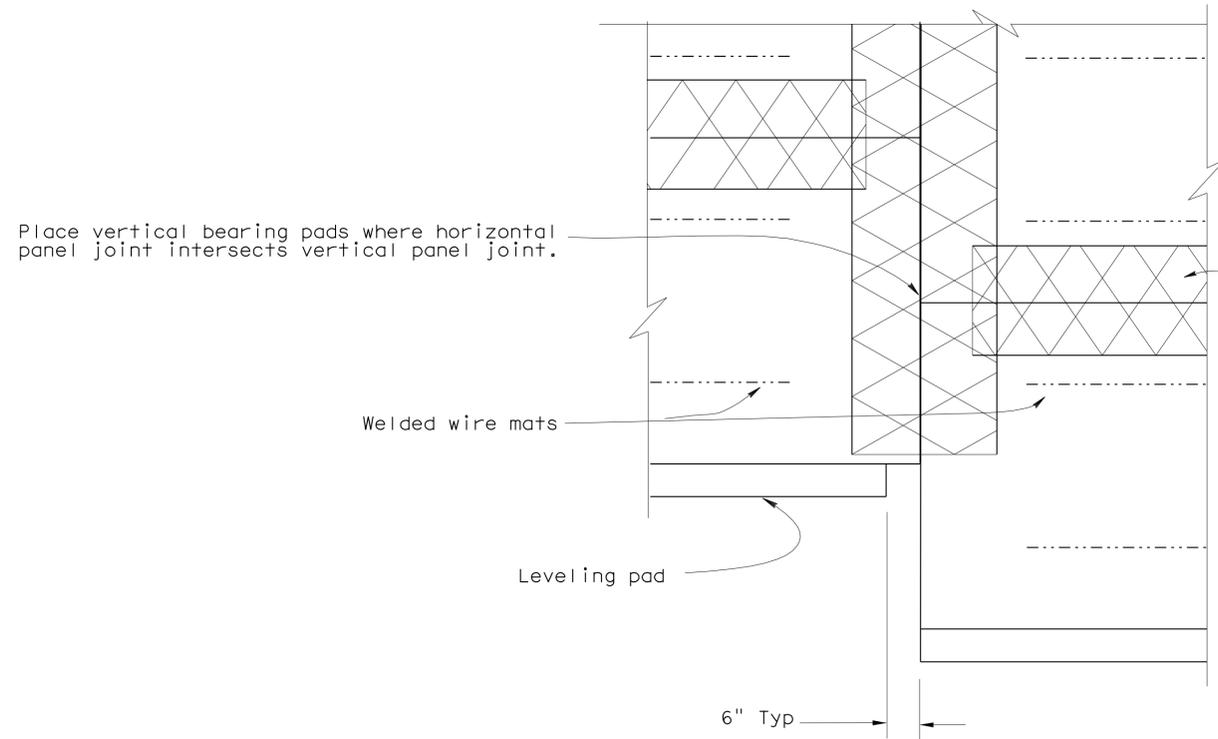
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	53E0151
POST MILE	1.68

RETAINING WALL NO. 1
RETAINING WALL DETAILS NO. 3

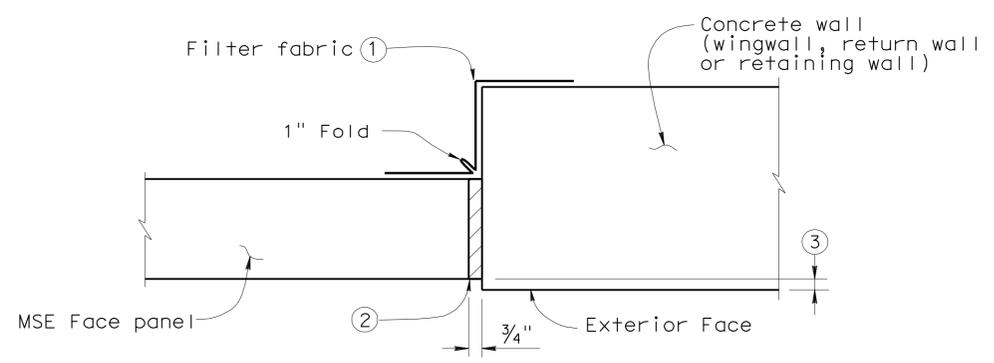
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	504	602

REGISTERED CIVIL ENGINEER *Phu V. Nguyen* 3-2-11 DATE
 PLANS APPROVAL DATE 6-27-11
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
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REAR ELEVATION

No Scale



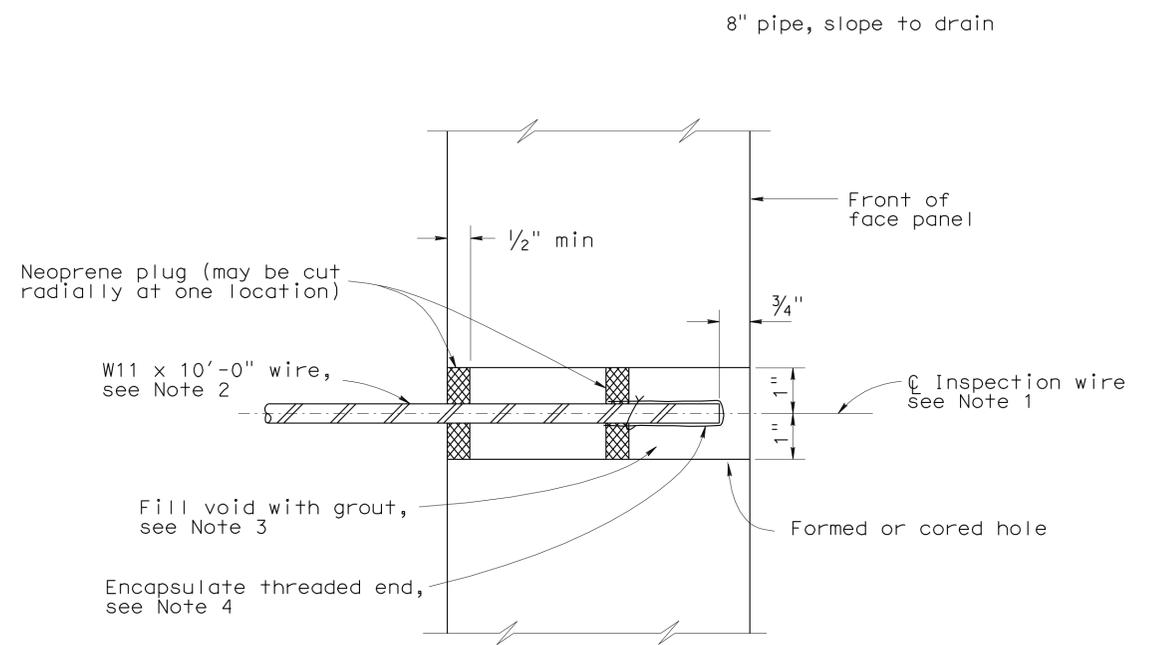
MSE FACE PANEL-TO-CONCRETE WALL JOINT DETAIL

No Scale

LEGEND:

- ① Bond a strip of filter fabric, 1'-6" wide, to back of MSE panels and the adjacent concrete wall for entire length of vertical joint.
- ② Bond expansion joint material to the concrete wall.
- ③ Offset between face of MSE face panel and face of the concrete wall as dictated by location of layout lines shown elsewhere in Project Plans.

1'-0" wide strip of filter fabric bonded to adjacent panels full length of both vertical and horizontal panel joints.



SECTION THRU INSPECTION WIRE

No Scale

NOTES:

- 1. Center inspection wire in face panel.
- 2. Fabricate inspection wires from W11 wire representative of the welded wire mats, with 3/8" dia - 16 UNC threads for at least 1 1/2" of one end.
- 3. Place inspection wire horizontal and perpendicular to the wall panel prior to backfilling. After backfill placement to a level at least 2'-0" above the inspection wire, dry pack opening with 1000 to 1500 psi mortar. Trowel mortar smooth and flush with face of panel.
- 4. Encapsulate threaded end with corrosion inhibiting mastic, and secure round vinyl cover with nylon tie.

UNC = Unified coarse threads

DESIGN	BY	Mark Okimura	CHECKED	Ubong Inyang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	53E0151	RETAINING WALL NO. 1
	DETAILS	BY	David Elliott	CHECKED			Ubong Inyang	POST MILE	
QUANTITIES	BY	Tony Yoon	CHECKED	Loren Goldthwait	CU 07227 EA 215911	BRIDGE NO.	53E0151	POST MILE	1.68

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

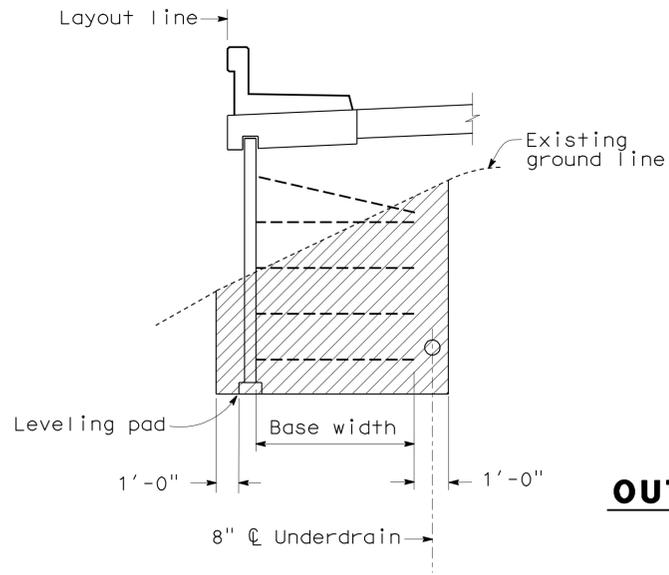
2-10-10	5-3-10	5-18-10	3-22-11						
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SHEET 8 OF 15

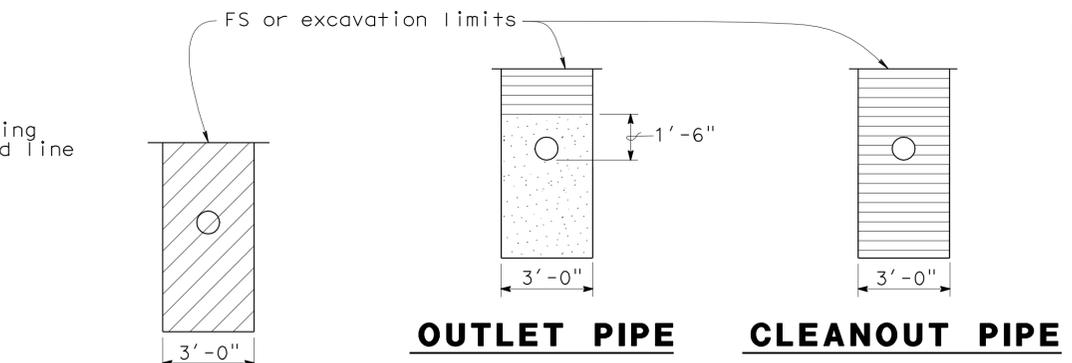
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	505	602

3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



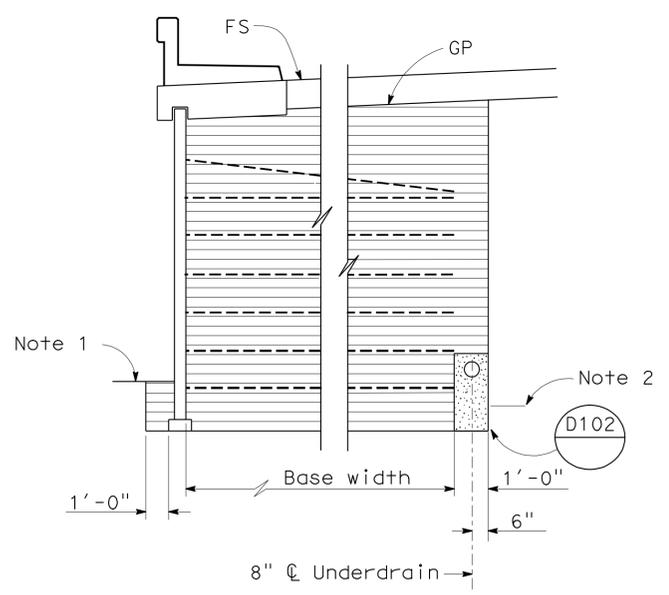
LIMITS OF EXCAVATION
No Scale



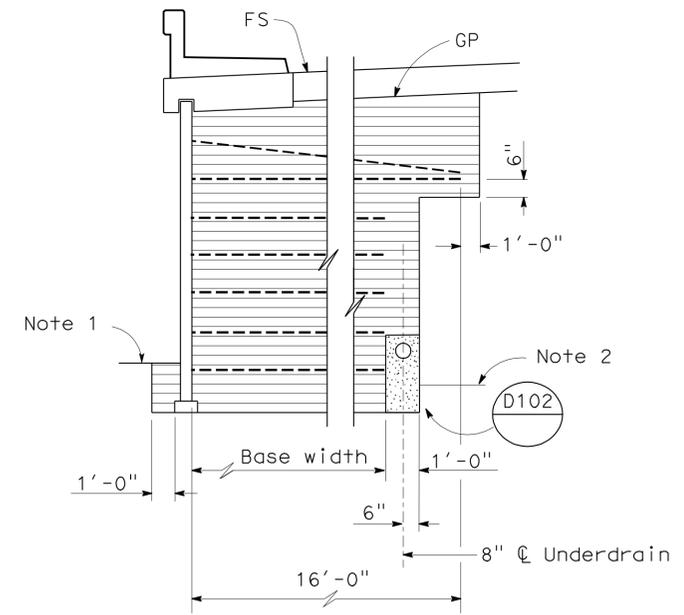
EXCAVATION BACKFILL
OUTLET OR CLEANOUT PIPE FOR UNDERDRAIN
No Scale

ABBREVIATIONS		LEGEND	
OG	Original ground		Limits of contaminated soil structure excavation
FS	Planned finished surface		Limits of structure backfill
GP	Planned grading plane		Limits of permeable material

- NOTES:
- Limits to FS except to GP when in roadway section.
 - Locate 8" perforated underdrain as shown.
 - Maximum spacing of outlet pipes is 200 ft.
 - At sags in profile of underdrain, install outlet pipe for each direction of flow.

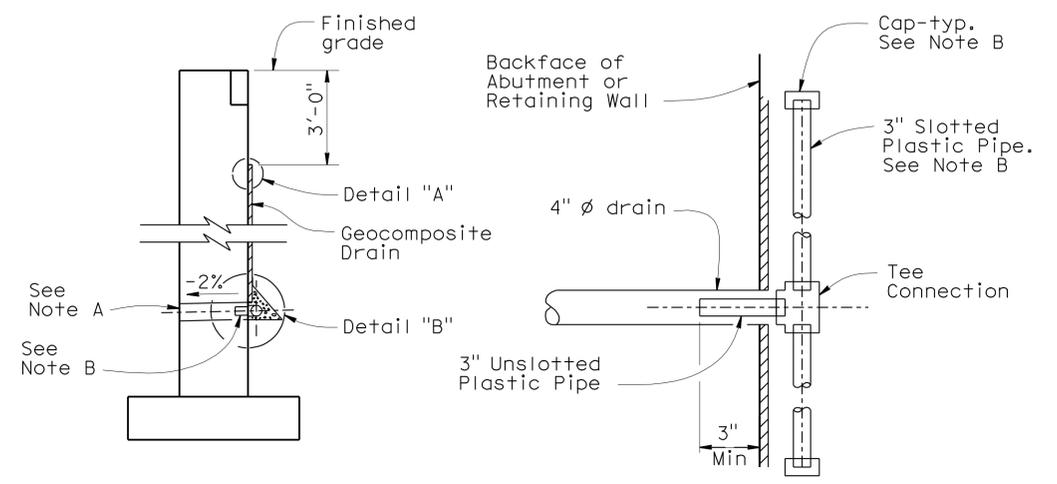


ROADWAY SECTION WITH BASE WIDTH 16' OR GREATER



ROADWAY SECTION WITH BASE WIDTH LESS THAN 16'

LIMITS OF BACKFILL
No Scale



WALL SECTION SECTION A-A
DETAIL "A" DETAIL "B"
WEEP HOLE AND GEOCOMPOSITE DRAIN

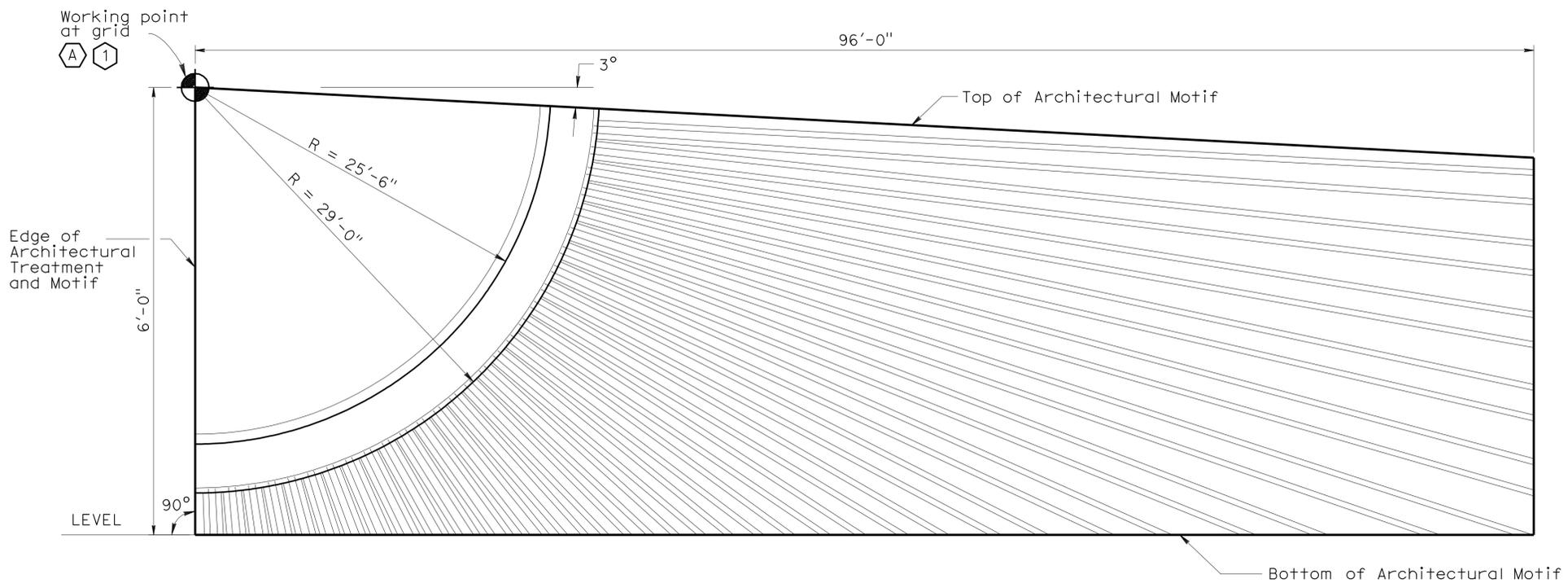
- Notes:
- See "STRUCTURE PLAN NO. 2" sheet for locations. Exposed wall drains shall be located 3"± above finished grade.
 - Geocomposite drain, cement treated permeable base, and 3"Ø slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" Ø drain.
 - Connect the low end of plastic pipe to the main outlet pipe as applicable.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Mark Okimura	CHECKED Ubong Inyang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 1	
	DETAILS	BY David Elliott	CHECKED Ubong Inyang			53E0151	RETAINING WALL DETAILS NO. 6	
	QUANTITIES	BY Tony Yoon	CHECKED Loren Goldthwait			POST MILE 1.68		
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 9 OF 15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	506	602

Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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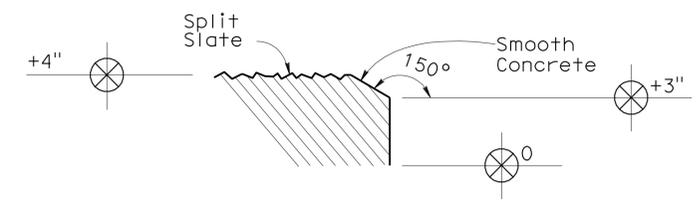
REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



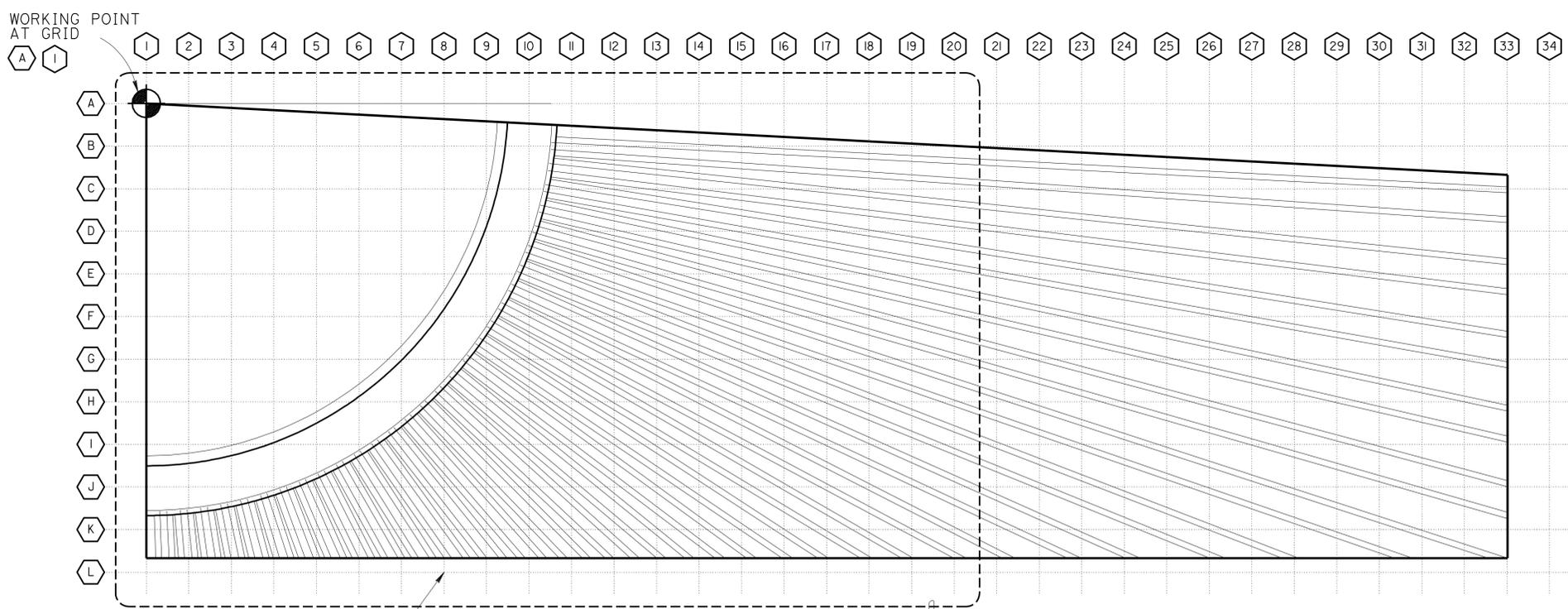
ARCHITECTURAL MOTIF LAYOUT

3/16" = 1'-0"

Note: All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL, typical



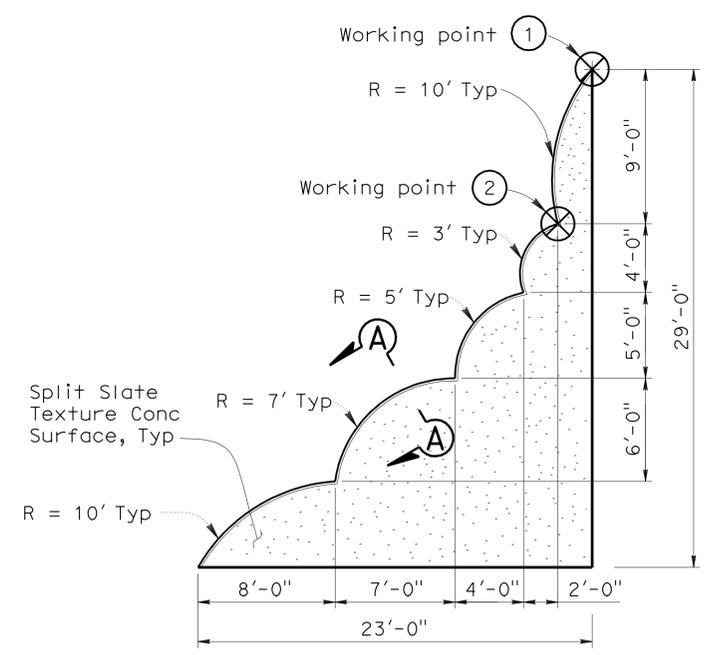
SECTION A-A
No Scale



ARCHITECTURAL MOTIF ELEVATION

3/16" = 1'-0"

See 'Partial Architectural Motif Elevation' on 'ARCHITECTURAL TREATMENT DETAILS NO. 2' sheet



DETAIL C
3/16" = 1'-0"

Note: For 'Detail C' location, see "ARCHITECTURAL TREATMENT DETAILS NO. 3" sheet.

DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia
DETAILS	BY Pauline Tong	CHECKED Javier Chavez
QUANTITIES	BY Tony Yoon	CHECKED Loren Goldthwait

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

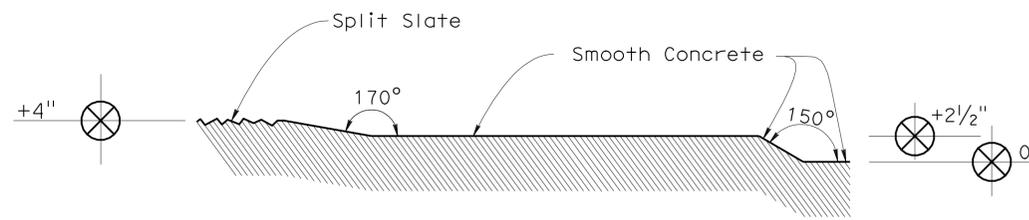
BRIDGE NO.	53E0151
POST MILE	1.68

RETAINING WALL NO. 1
ARCHITECTURAL TREATMENT DETAILS NO. 1

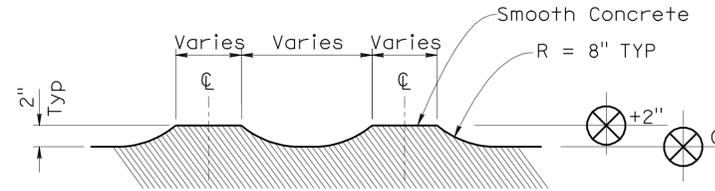
REVISION DATES	SHEET	OF
3-10-10 3-25-10 5-1-10 5-18-10 3-22-11	10	15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	507	602

REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 6-27-11
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SECTION B-B
No Scale

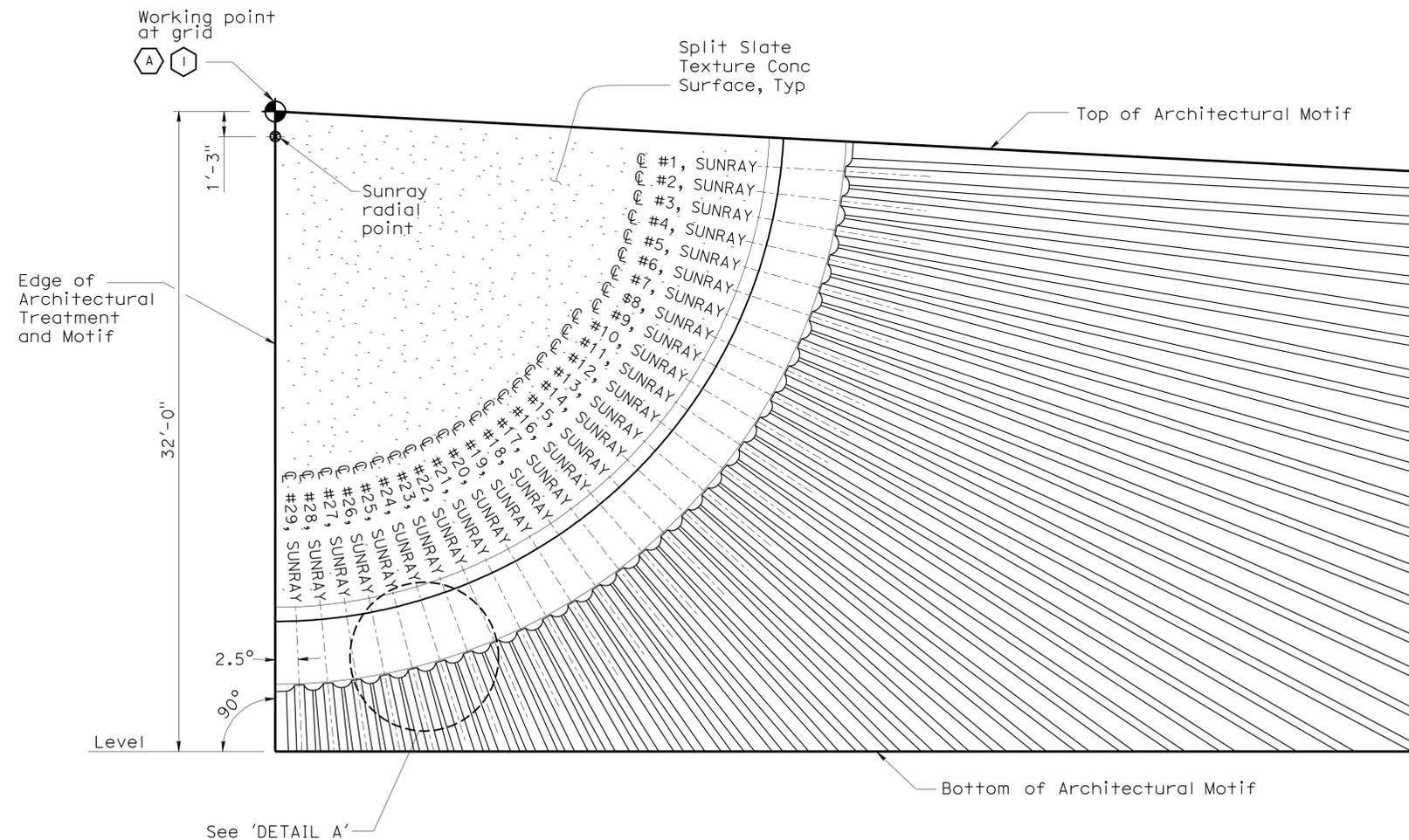


SECTION C-C
No Scale

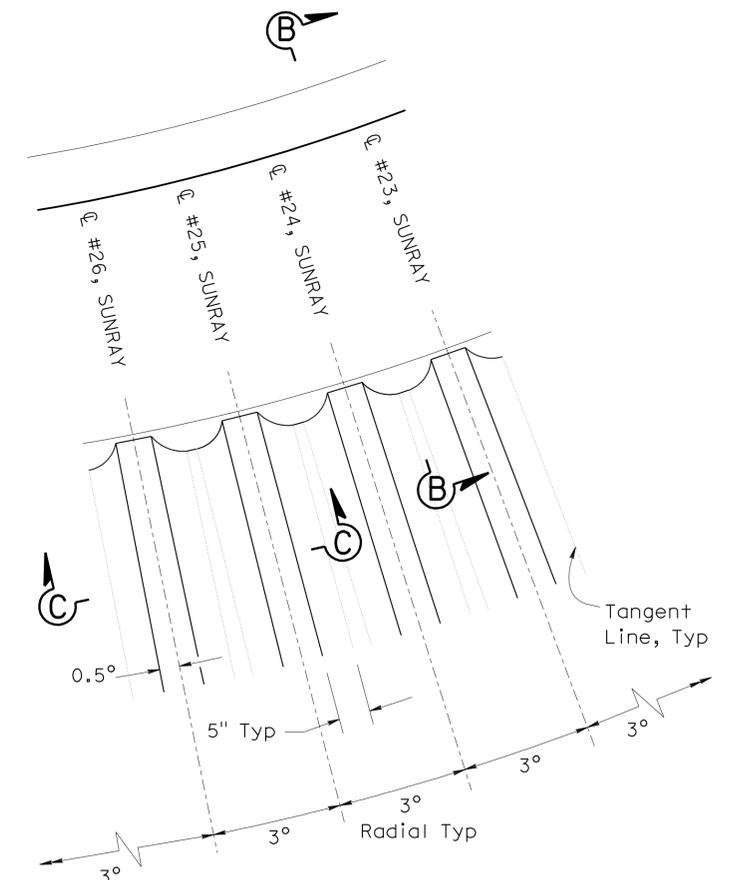
Note: All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL, typical

Legend:

- Split Slate Texture Concrete Surface
- Smooth Concrete Surface



PARTIAL ARCHITECTURAL MOTIF ELEVATION
1/4"=1'-0"

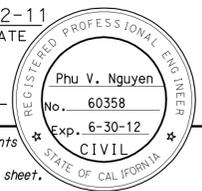
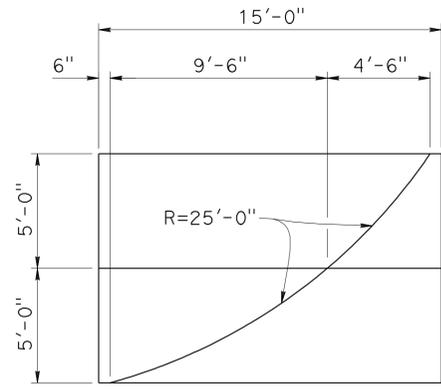


DETAIL A
3/4"=1'-0"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 1						
	DETAILS	BY Pauline Tong	CHECKED Javier Chavez			53E0151	ARCHITECTURAL TREATMENT DETAILS NO. 2						
	QUANTITIES	BY Tony Yoon	CHECKED Loren Goldthwait			1.68							
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES				SHEET 11	OF 15
				CU 07227 EA 215911				REVISION DATES					

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	508	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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Note: Detail shown is Geometric outline for the 25' radius arc.

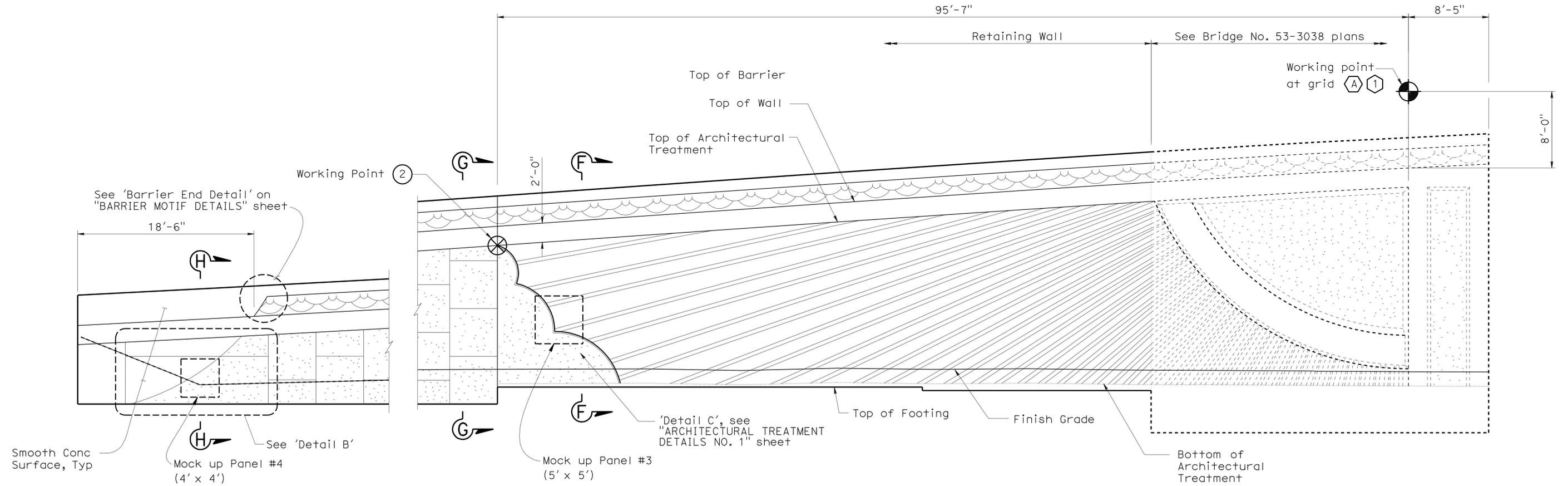
DETAIL B
No Scale

Notes:

- All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL, typical
- For Section 'F-F', 'G-G' and 'H-H', see "ARCHITECTURAL TREATMENT DETAILS NO. 4" sheet

Legend:

-  Split Slate Texture Concrete Surface
-  Smooth Concrete Surface



PARTIAL MIRRORED ELEVATION

$\frac{3}{16}'' = 1' - 0''$

DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia
DETAILS	BY Pauline Tong	CHECKED Javier Chavez
QUANTITIES	BY Tony Yoon	CHECKED Loren Goldthwait

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH **11**

BRIDGE NO.	53E0151
POST MILE	1.68

RETAINING WALL NO. 1
ARCHITECTURAL TREATMENT DETAILS NO. 3

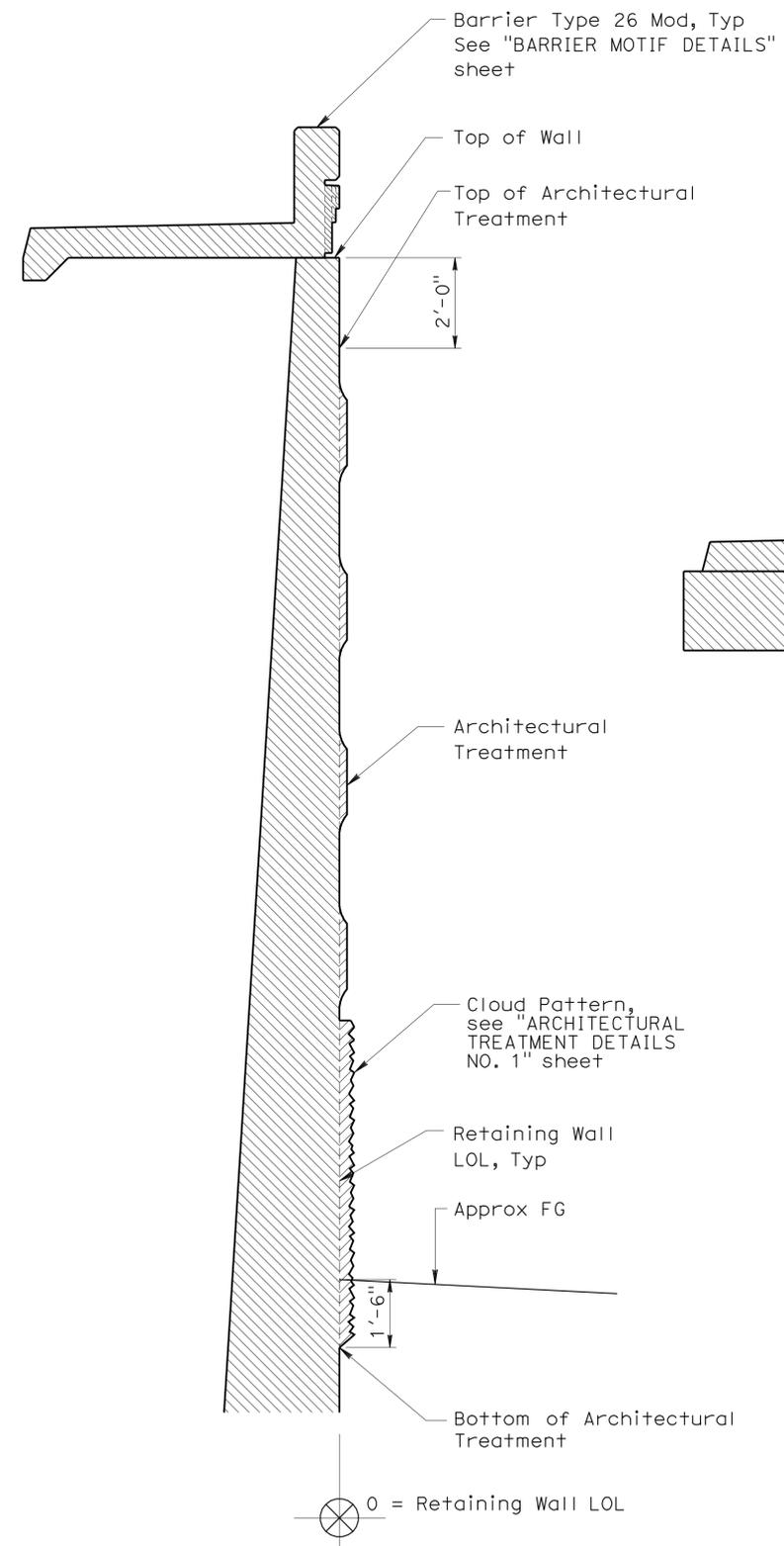
REVISION DATES
3-24-10 3-25-10 4-14-10 5-3-10 5-5-10 6-3-10 3-22-11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	509	602

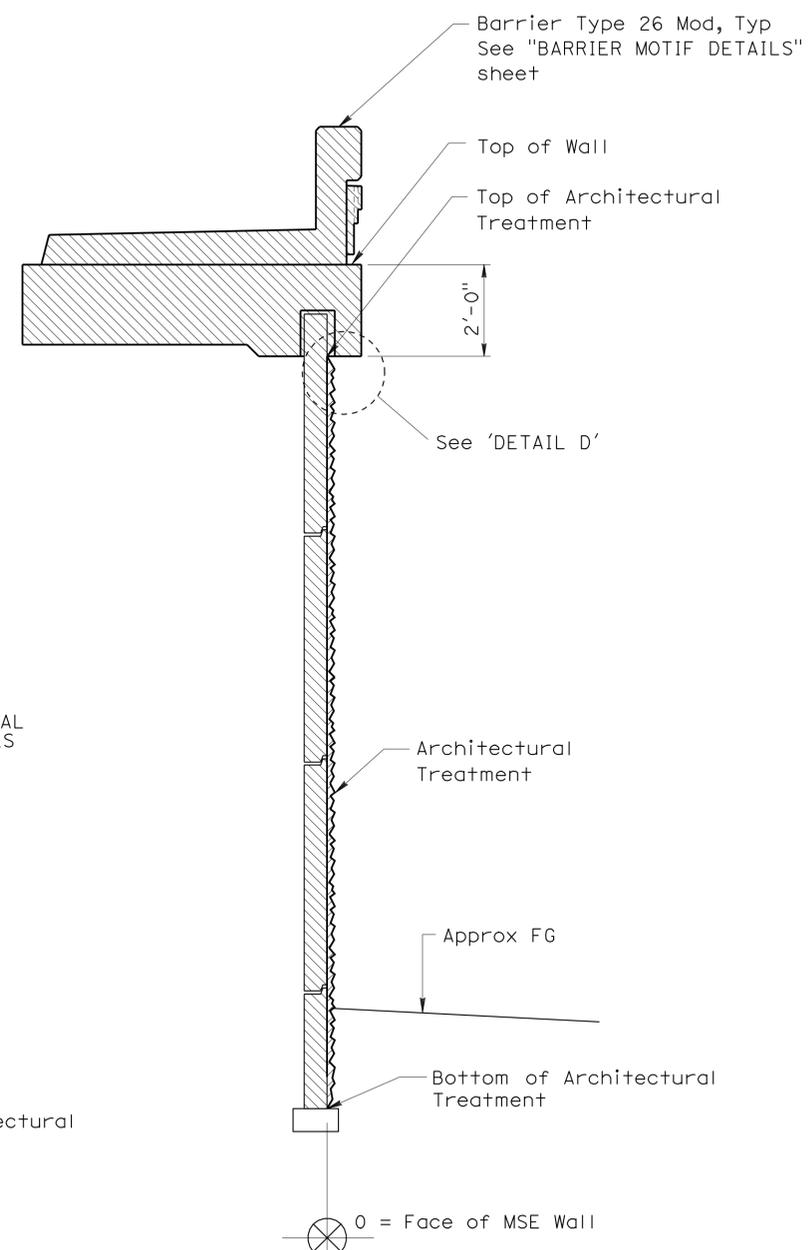
Phu Vong Tong 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

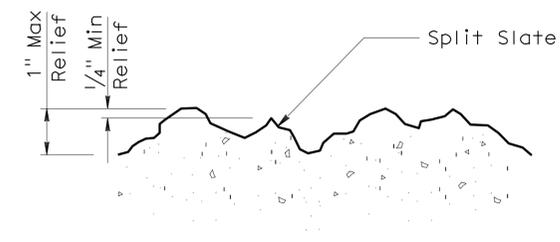
Note: All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL or face of MSE wall, Typical



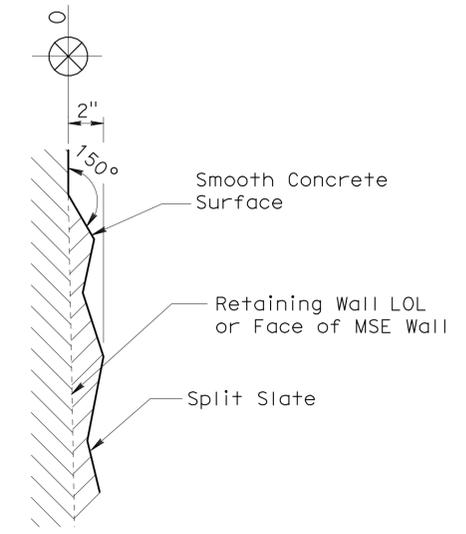
SECTION F-F
No Scale



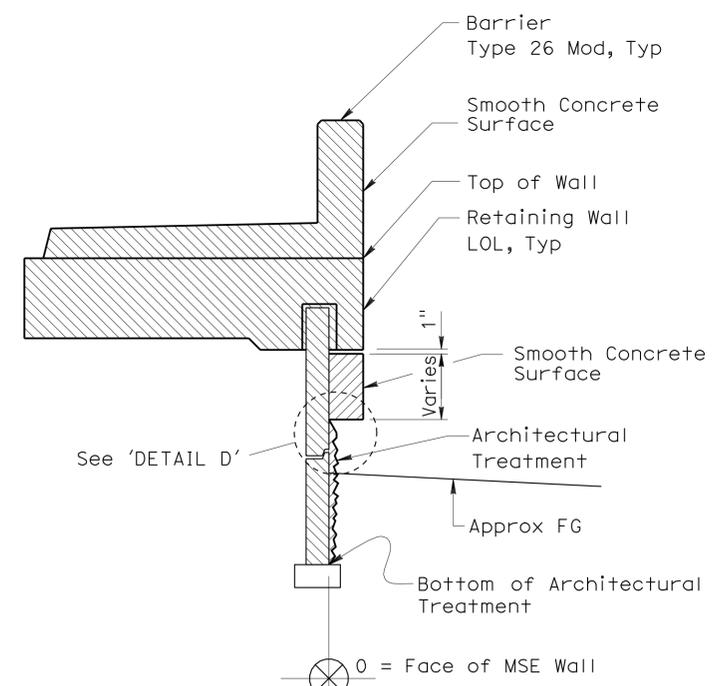
SECTION G-G
No Scale



SPLIT SLATE TEXTURE
No Scale



DETAIL D
No Scale



SECTION H-H
No Scale

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DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia												
DETAILS	BY Pauline Tong	CHECKED Javier Chavez												
QUANTITIES	BY Tony Yoon	CHECKED Loren Goldthwait												
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 3-10-10 3-26-10 4-14-10 5-3-10 5-19-10 3-22-11									

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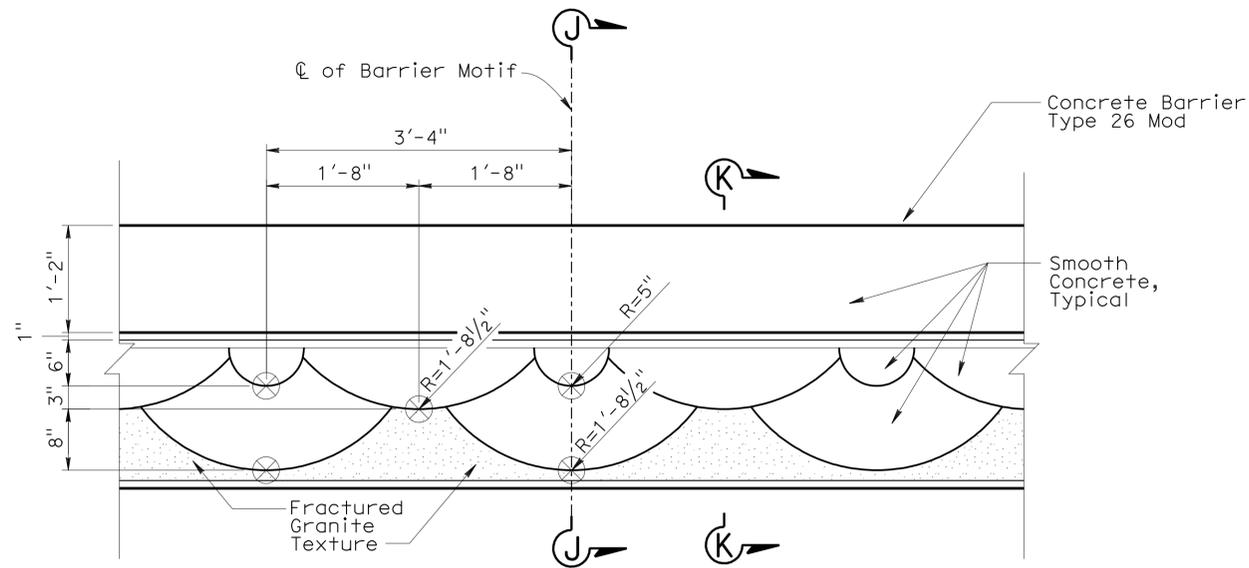
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Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

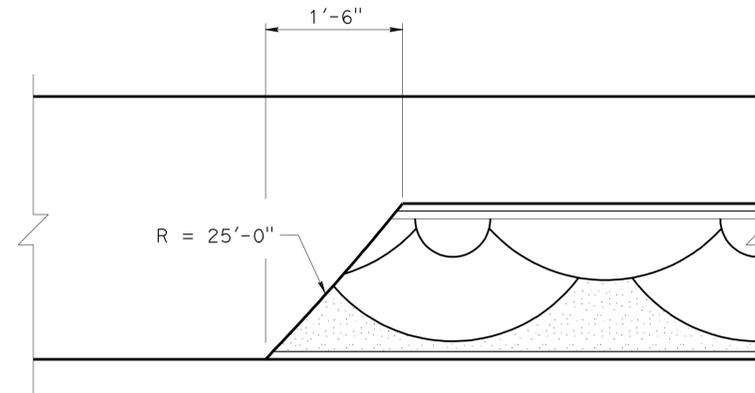
6-27-11
 PLANS APPROVAL DATE

No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

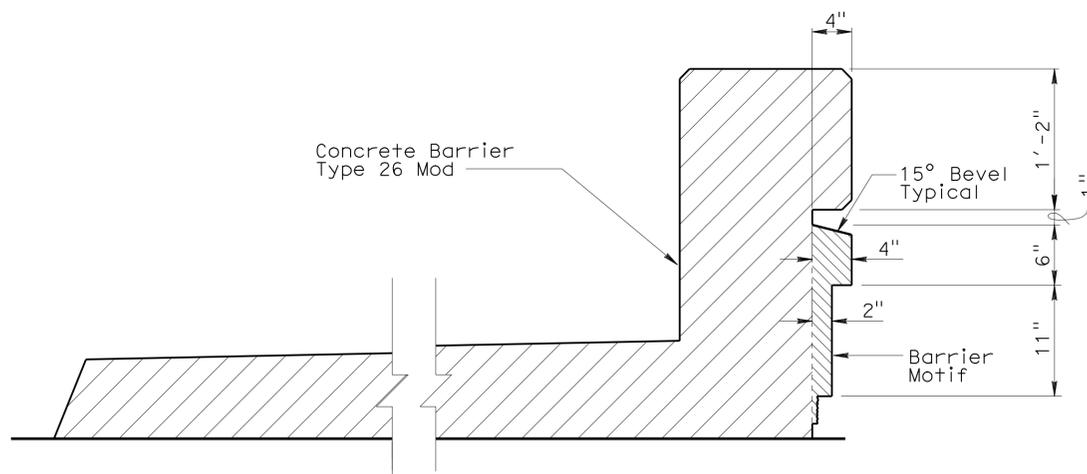
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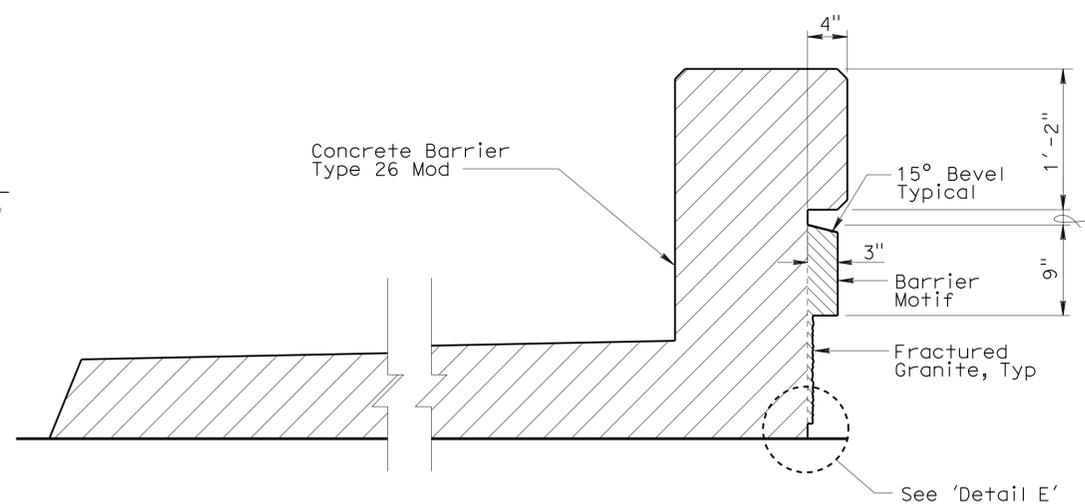
ELEVATION - BARRIER MOTIF
No Scale



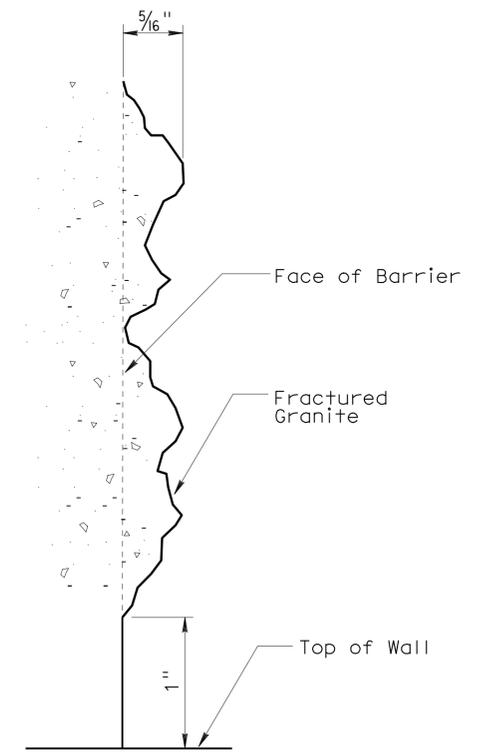
BARRIER END DETAIL
No Scale



SECTION J-J
No Scale



SECTION K-K
No Scale



DETAIL E
No Scale

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	53E0151	RETAINING WALL NO. 1 BARRIER MOTIF DETAILS									
	DETAILS	BY Pauline Tong	CHECKED Javier Chavez			POST MILE	1.68										
	QUANTITIES	BY Tony Yoon	CHECKED Loren Goldthwait			CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES		<table border="1"> <tr> <th colspan="4">REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>3-28-10</td> <td>5-3-10</td> <td>5-18-10</td> <td>3-22-11</td> <td>14</td> <td>15</td> </tr> </table>	REVISION DATES				SHEET	OF	3-28-10	5-3-10
REVISION DATES				SHEET	OF												
3-28-10	5-3-10	5-18-10	3-22-11	14	15												

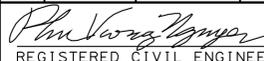
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

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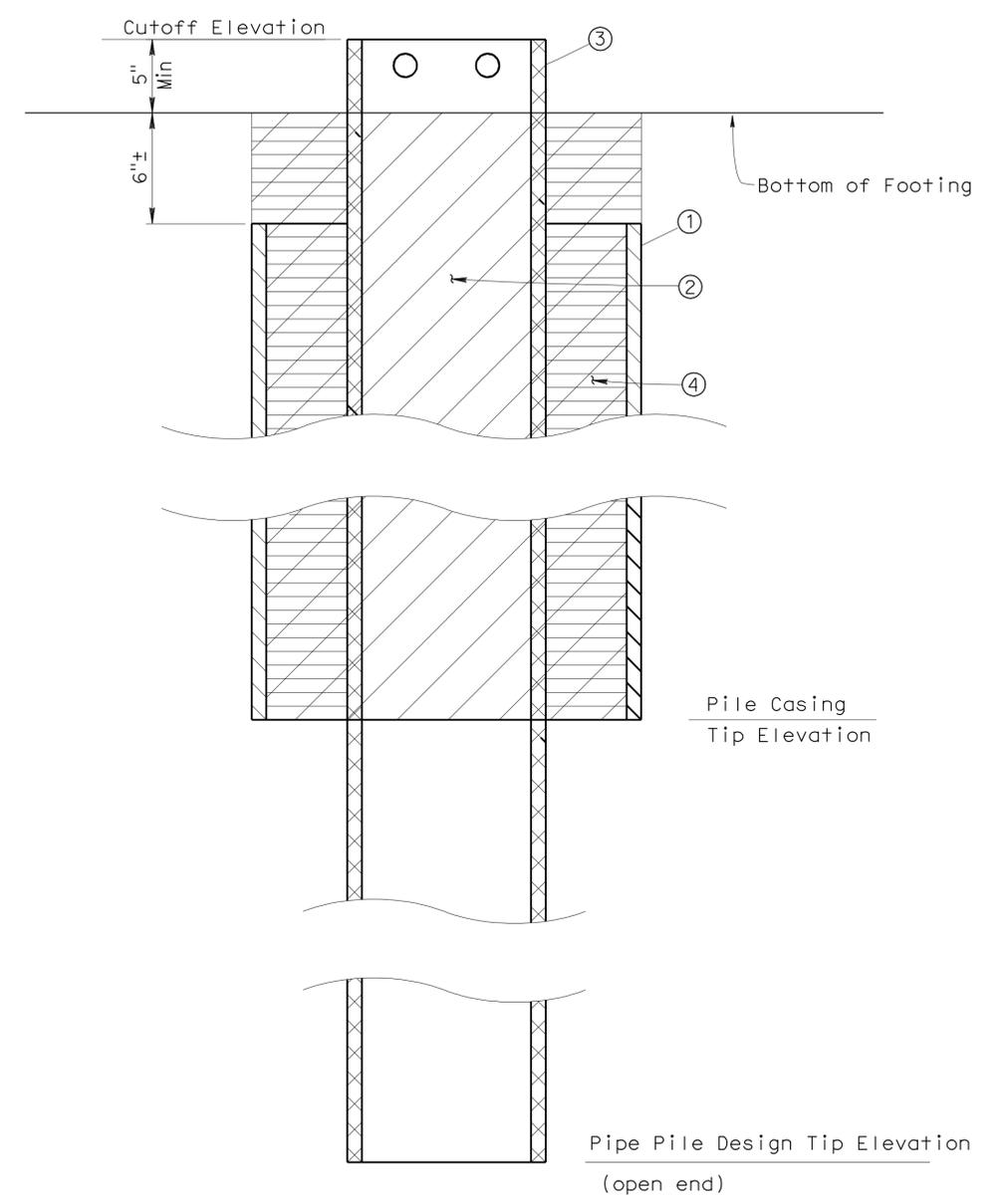
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 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 60358
 Exp. 6-30-12
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INSTALLATION NOTES:

- ① Install Pile Casing
- ② Remove contaminated soil and debris from interior space of Pile Casing
- ③ Drive class 90 Pipe Pile
- ④ Fill space between Pipe Pile & Pile Casing with grout



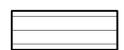
STEEL PILE CASING:

Minimum dia = 20"
 Thickness to be determined by the Contractor

TABLE A Correlations between Depth of Soil Removal and Nominal Driving Resistance Required

Depth of Soil Removal (ft, from Cut off Elevation)	0	5	10	15	20	25	35
Nominal Driving Resistance Required (Kips)	330	330	330	330	300	250	180

LEGEND

-  Steel Pile Casing
-  Class 90 Pipe Pile
-  Contaminated Soil and Debris
-  Grout

PILE CASING TIP ELEVATIONS

Design "H"	18'	20'	22'
Casing Tip Elevation	44.6'	43.6'	43.0'

TYPICAL PIPE CASING INSTALLATION PROCEDURE

NO SCALE

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SHOWN. <small>STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)</small>	DESIGN	BY Krishnakant Andurlekar	CHECKED Mark Okimura	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 1 PILE CASING DETAIL					
	DETAILS	BY Jaime Ramirez	CHECKED Mark Okimura			POST MILE					53E0151	
	QUANTITIES	BY Krishnakant Andurlekar	CHECKED Mark Okimura			POST MILE					1.68	
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES				REVISION DATES	SHEET 15	OF 15

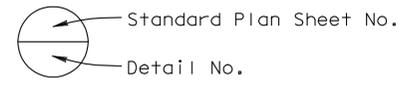
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER
 3-2-11 DATE
 6-27-11 PLANS APPROVAL DATE
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STANDARD PLANS
Dated May 2006

A10A	ACRONYMS AND ABBREVIATIONS (A-L)	1
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)	2
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL- BRIDGE SURCHARGE AND WALL	3
D102	UNDERDRAINS	4
B0-3	BRIDGE DETAILS	5
B3-1	RETAINING WALL TYPE 1	6
B3-8	RETAINING WALL DETAILS NO. 1	7
B11-54	CONCRETE BARRIER TYPE 26	8



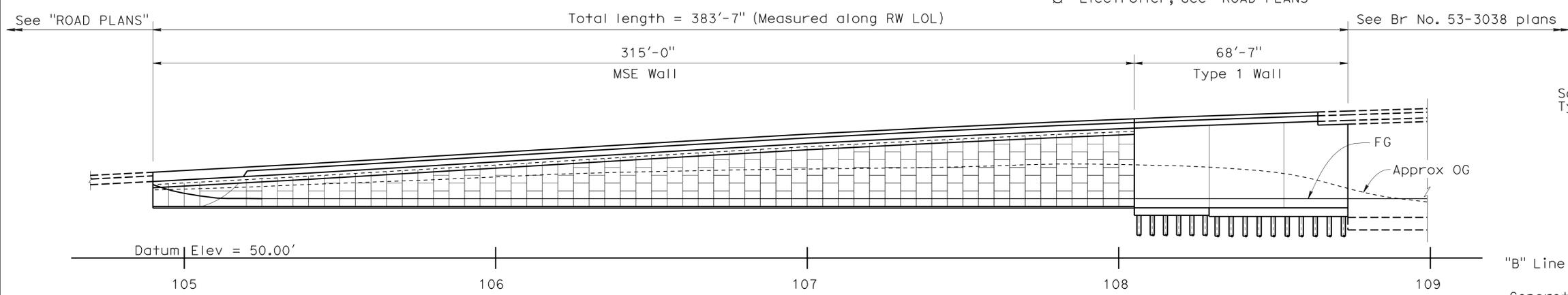
INDEX TO PLANS

Sheet No.	Title
1	GENERAL PLAN
2	STRUCTURE PLAN NO. 1
3	STRUCTURE PLAN NO. 2
4	STRUCTURE PLAN NO. 3
5	RETAINING WALL DETAILS NO. 1
6	RETAINING WALL DETAILS NO. 2
7	RETAINING WALL DETAILS NO. 3
8	RETAINING WALL DETAILS NO. 4
9	RETAINING WALL DETAILS NO. 5
10	RETAINING WALL DETAILS NO. 6
11	ARCHITECTURAL TREATMENT DETAILS NO. 1
12	ARCHITECTURAL TREATMENT DETAILS NO. 2
13	ARCHITECTURAL TREATMENT DETAILS NO. 3
14	ARCHITECTURAL TREATMENT DETAILS NO. 4
15	BARRIER MOTIF DETAILS
16	LUMINAIRE CORBEL DETAILS NO. 1
17	LUMINAIRE CORBEL DETAILS NO. 2

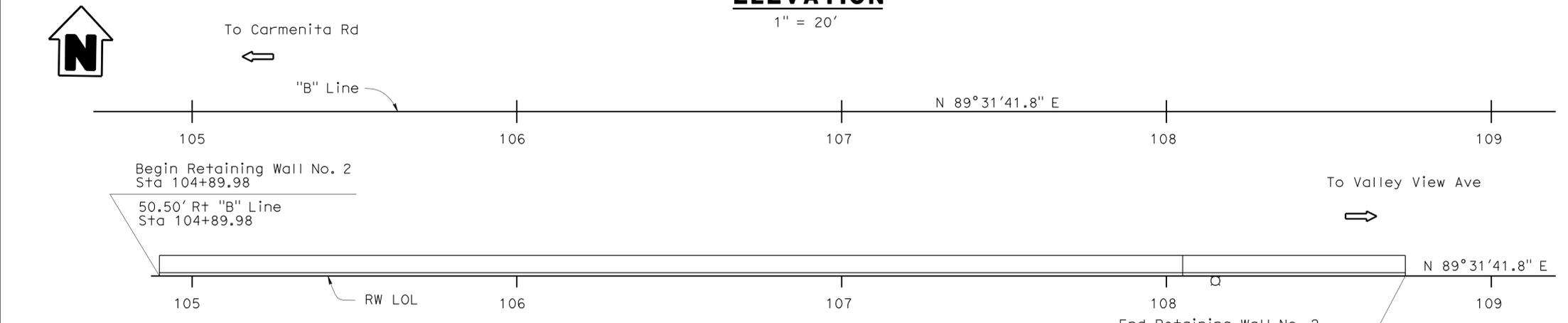
QUANTITIES

STRUCTURE EXCAVATION (RETAINING WALL)	460	CY
STRUCTURE BACKFILL (RETAINING WALL)	630	CY
EARTH RETAINING STRUCTURE, LOCATION B	4,895	SQFT
FURNISH PILING (CLASS 90)	2,751	LF
(ALTERNATIVE W)		
DRIVE PILE (CLASS 90)	49	EA
(ALTERNATIVE W)		
STRUCTURAL CONCRETE, RETAINING WALL	220	CY
STRUCTURAL CONCRETE, BARRIER SLAB	150	CY
ARCHITECTURAL TREATMENT	1,840	SQFT
ARCHITECTURAL SURFACE (BARRIER)	670	SQFT
BAR REINFORCING STEEL (RETAINING WALL)	37,840	LB
CONCRETE BARRIER (TYPE 26 MODIFIED)	369	LF

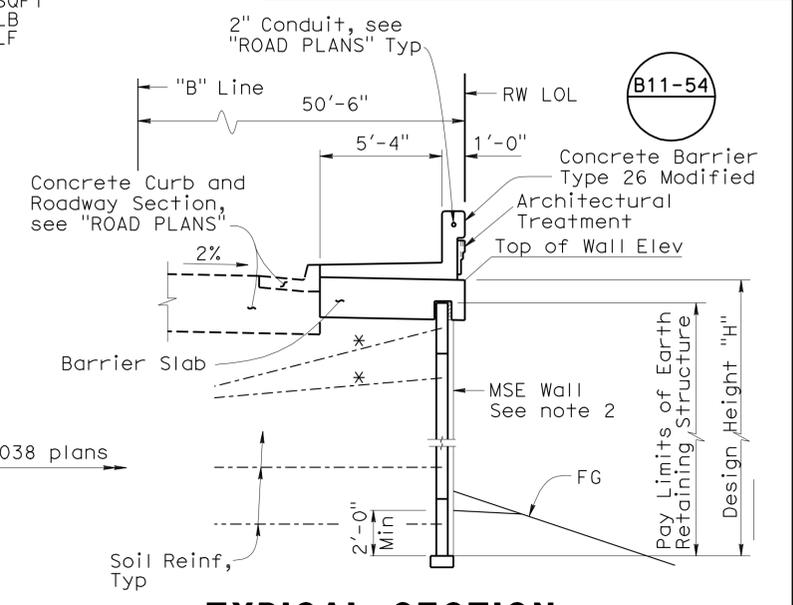
- Notes:
- Maintain a minimum of 6" between soil reinforcements, Typ.
 - Precast Concrete Panels with Architectural Treatment (Split Slate Texture)
- * For slope, see "RETAINING WALL DETAILS NO. 2 and NO. 3" sheets.
- Electrolier, see "ROAD PLANS"



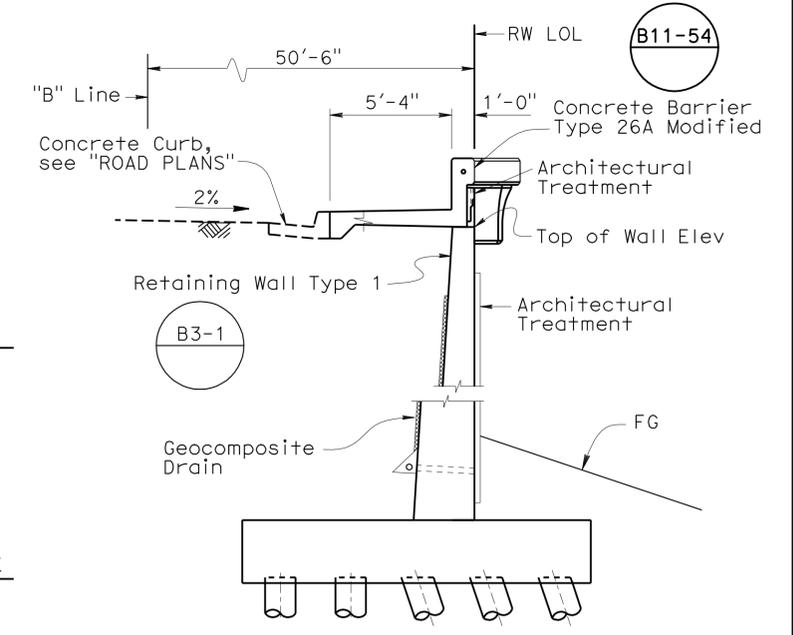
ELEVATION
1" = 20'



PLAN
1" = 20'



TYPICAL SECTION AT MSE WALL
1/4"=1'-0"



TYPICAL SECTION AT RETAINING WALL TYPE 1
1/4"=1'-0"

Ramin Rashedi DESIGN ENGINEER	DESIGN	BY Mark Okimura	CHECKED Yeo Yoon	LAYOUT	BY Mark Okimura	CHECKED Yeo Yoon	BRIDGE NO. 53E0152	POST MILE 1.68	RETAINING WALL NO. 2 GENERAL PLAN
	DETAILS	BY David Elliott	CHECKED Yeo Yoon		BY Mark Okimura	CHECKED Yeo Yoon			
	QUANTITIES	BY Mark Okimura	CHECKED Pauline Tong		SPECIFICATIONS	BY Theresa Nedwick			

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DESIGN BRANCH 11

CU 07227 EA 215911

REVISION DATES: 10-20-09, 4-20-10, 5-10-10, 7-22-10, 9-2-10, 1-19-11, 3-8-11, 5-2-11, 4-11-10

SHEET 1 OF 17

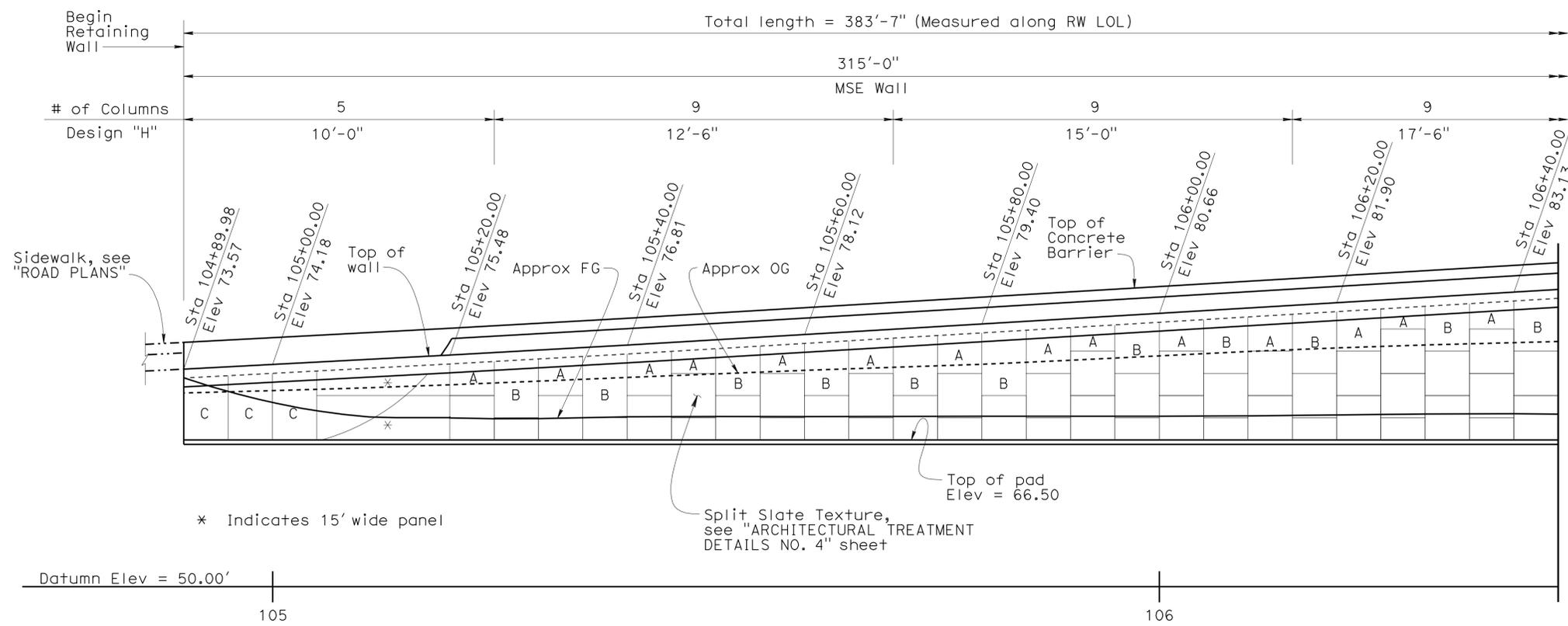
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REGISTERED CIVIL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

3-2-11
 REGISTERED CIVIL ENGINEER DATE

6-27-11
 PLANS APPROVAL DATE

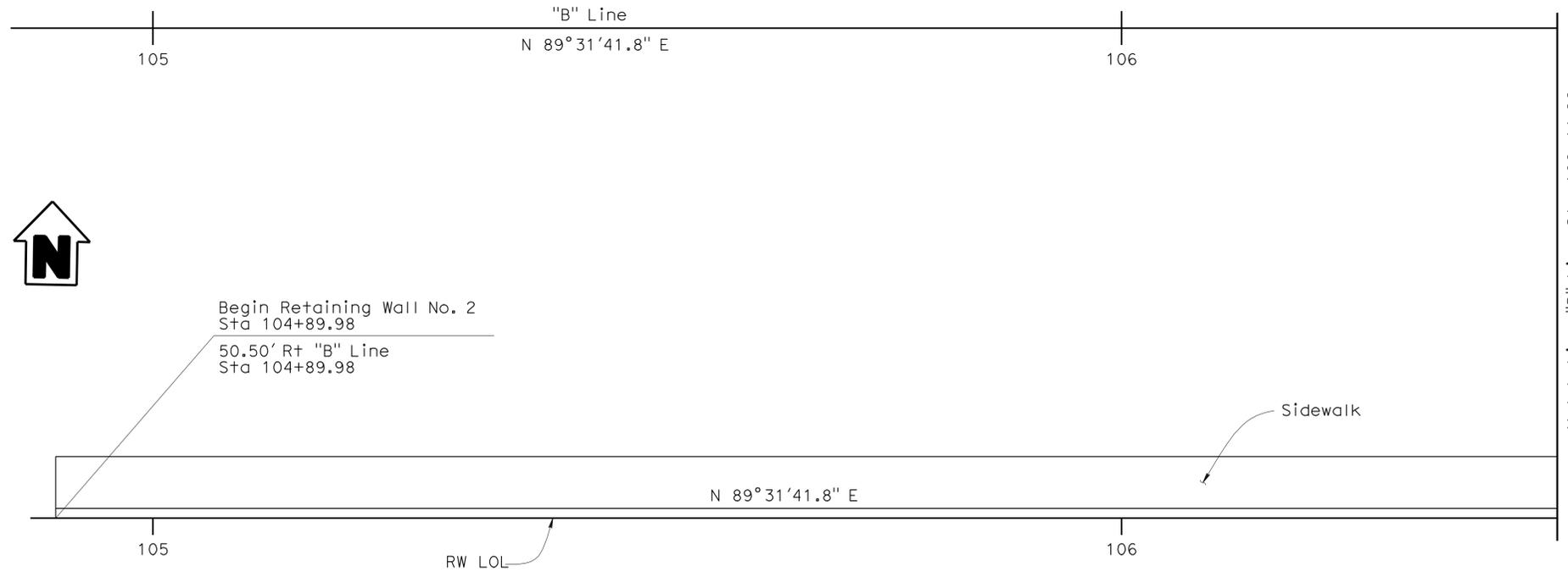
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ELEVATION
1/8" = 1'-0"

Indicates interval in years from time of construction to time of removal of inspection wire
 (30)
 Indicates panel type designation. For details, see "RETAINING WALL DETAILS NO. 2 & NO. 3" sheets

PANEL LEGEND
NO SCALE



PLAN
1/8" = 1'-0"

DESIGN	BY Mark Okimura	CHECKED Yeo Yoon
DETAILS	BY David Elliott	CHECKED Yeo Yoon
QUANTITIES	BY Mark Okimura	CHECKED Pauline Tong

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	53E0152
POST MILE	1.68

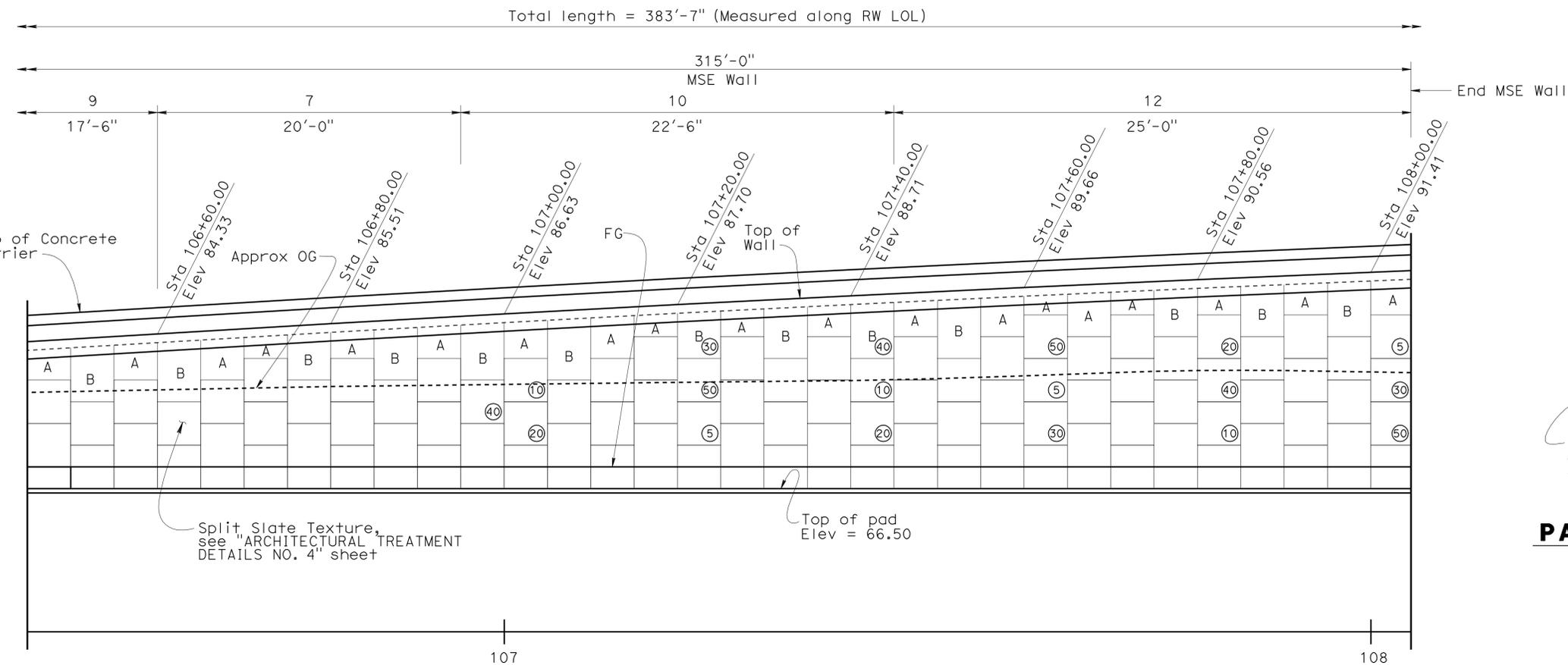
RETAINING WALL NO. 2
STRUCTURE PLAN NO. 1

REVISION DATES									
10-28-09	1-17-10	1-14-10	3-11-10	3-22-10	4-28-10	5-24-10	7-14-10	9-8-10	
SHEET 2 OF 17									

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	514	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
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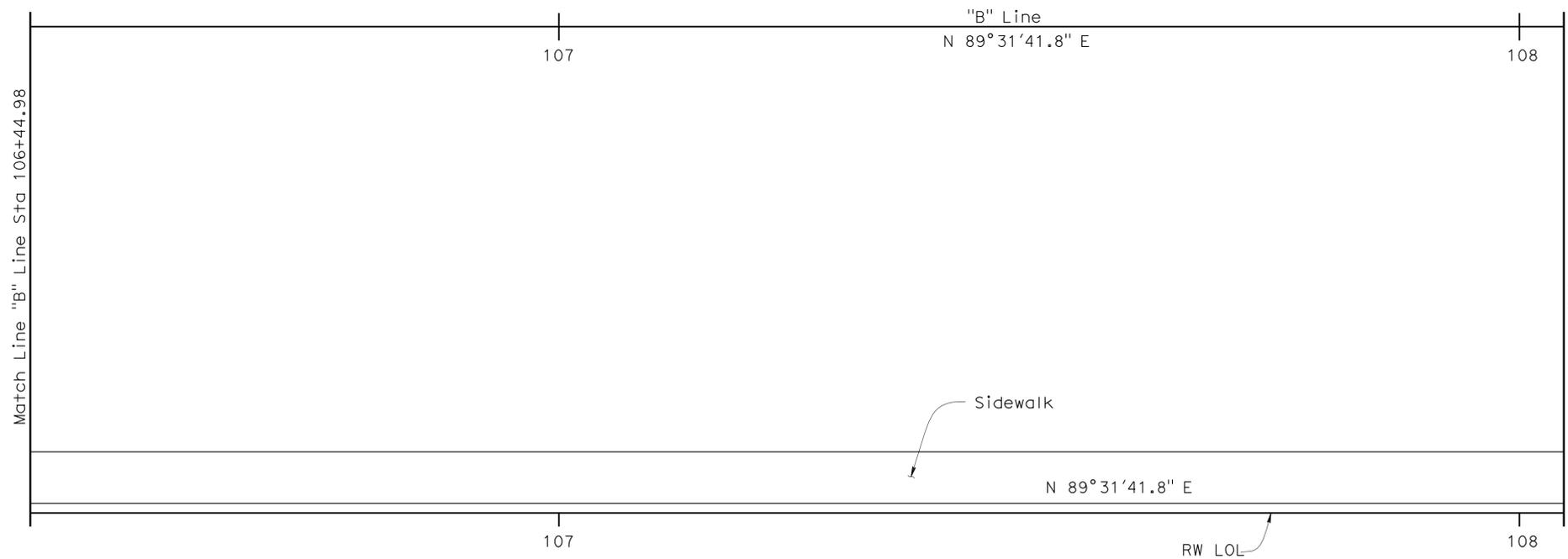
REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



Indicates interval in years from time of construction to time of removal of inspection wire
 (A) (30)
 Indicates panel type designation. For details, see "RETAINING WALL DETAILS NO. 2 & NO. 3" sheets

PANEL LEGEND
NO SCALE

ELEVATION
1/8"=1'-0"



PLAN
1/8"=1'-0"

DESIGN	BY Mark Okimura	CHECKED Yeo Yoon
DETAILS	BY David Elliott	CHECKED Yeo Yoon
QUANTITIES	BY Mark Okimura	CHECKED Pauline Tong

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	53E0152
POST MILE	1.68

RETAINING WALL NO. 2
STRUCTURE PLAN NO. 2

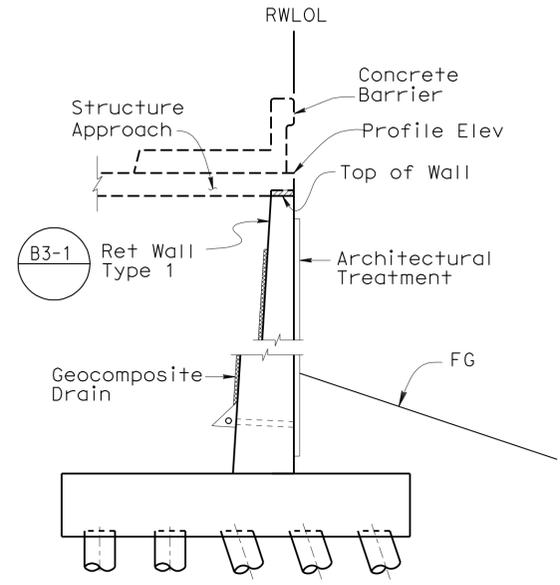
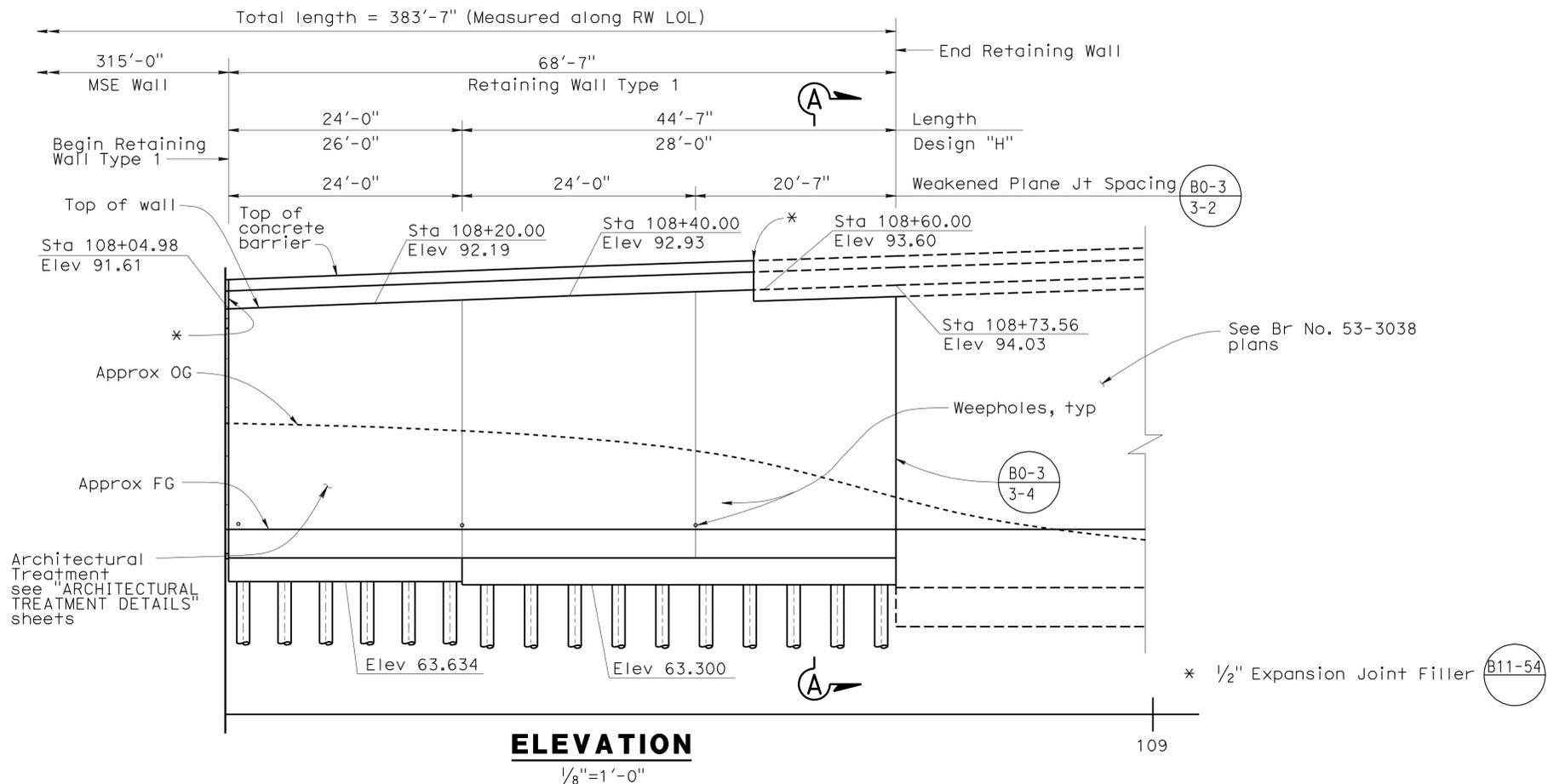


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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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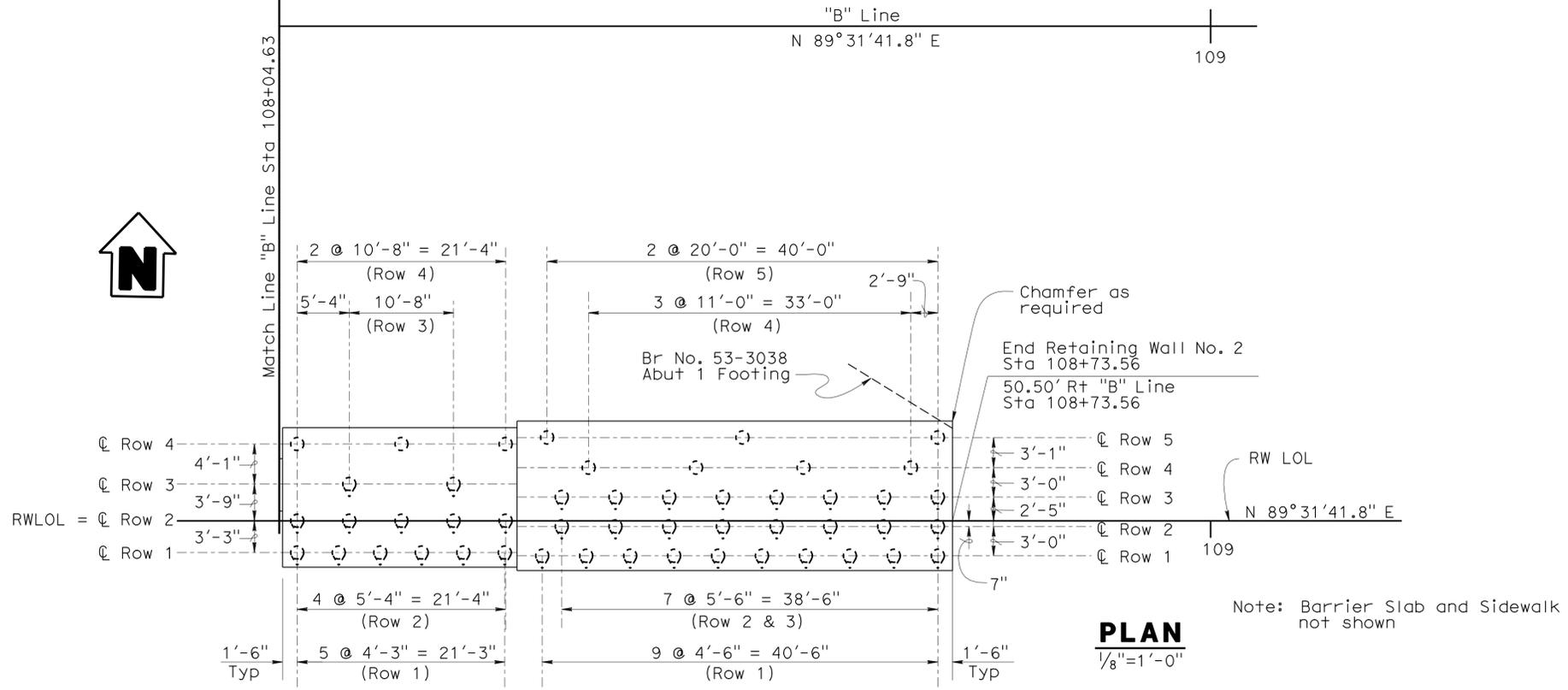
REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
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PLANS APPROVAL DATE 6-27-11
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Note: For Concrete Barrier, Structure Approach, and Geocomposite Drain details, see Bridge No. 53-3038 plans

SECTION A-A
1/4"=1'-0"



LEGEND:

- ⊙ Indicates Class 90 Piles, Alternative "W" **B2-5**
- ⊙ Indicates battered 1:3 Class 90 Piles, Alternative "W" **B2-5**

NOTES:

- Specified Tip Elevation = 10.0
- Nominal Driving Resistance Required = 330 kips

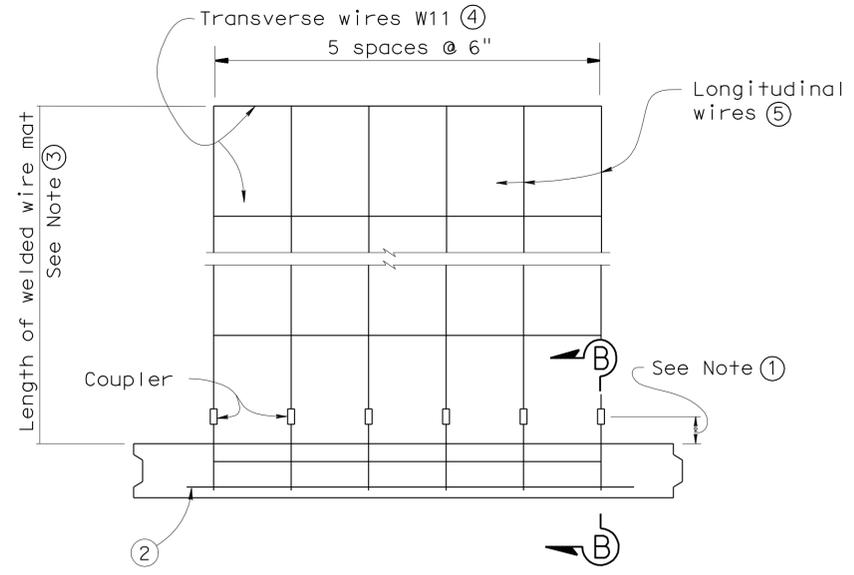
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	DESIGN BY Mark Okimura CHECKED Yeo Yoon	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0152	RETAINING WALL NO. 2 STRUCTURE PLAN NO. 3
	DETAILS BY David Elliott CHECKED Yeo Yoon			POST MILE 1.68	
	QUANTITIES BY Mark Okimura CHECKED Pauline Tong			REVISION DATES 12-28-09 1-14-10 3-11-10 4-28-10 5-18-10 5-24-10 7-12-10	SHEET 4 OF 17

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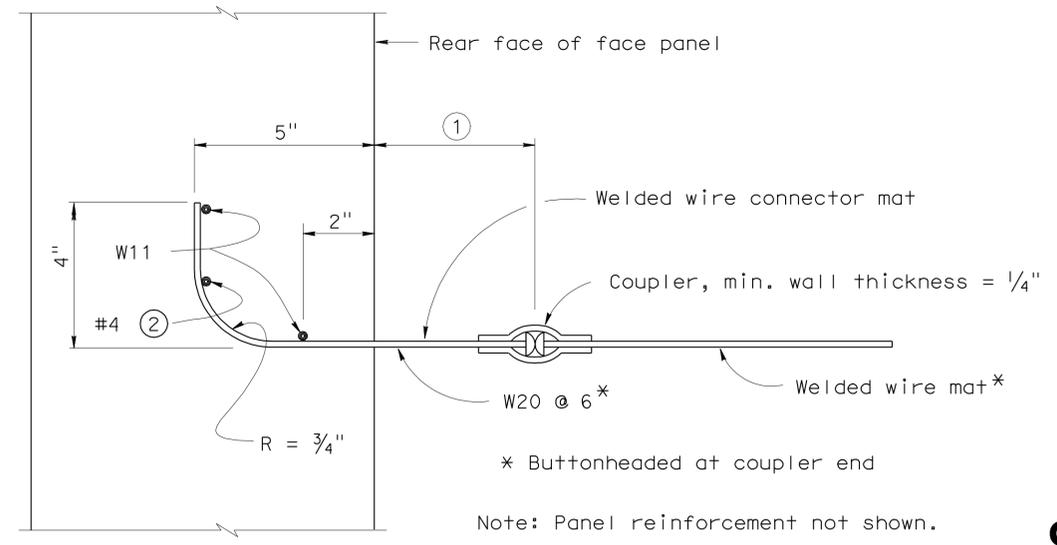
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REGISTERED CIVIL ENGINEER DATE 3-2-11
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 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



PLAN OF PANEL WITH WELDED WIRE MAT
No scale



SECTION B-B
No scale

GENERAL NOTES (MSE WALLS)

Live loading: Surcharge = 240 lb/ft²

Soil parameters:
 Internal design $\phi = 34^\circ$, $\gamma = 120$ lb/ft³
 External design ϕ (Backfill) = 34°, $\gamma = 120$ lb/ft³
 ϕ (Foundation) = 30°

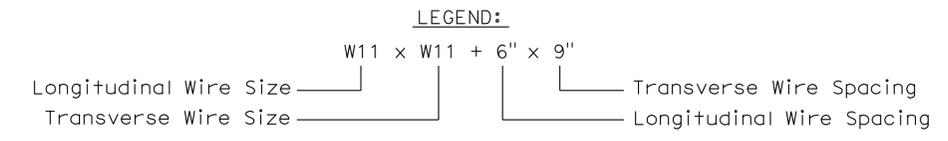
Precast concrete panels:
 $f'c = 4,000$ psi (Concrete compressive strength at 28 days)
 $f_y = 60,000$ psi (Yield strength of reinforcement)

Soil reinforcement:
 Welded wire mats: $f_y = 65,000$ psi (Yield strength)
 Coupler: $f_y = 36,000$ psi (Yield strength)
 Corrosion rate = 1.1 mils/year

Reinforced concrete:
 $f'c = 3,600$ psi, except as noted
 (Concrete compressive strength at 28 days)
 $f_y = 60,000$ psi (Yield strength of reinforcement)

MSE = Mechanically stabilized embankment

- Notes:
- Distance as required to permit coupler to be swaged.
 - Place #4 bar, 3' - 2" long, centered on connector mat, but not welded to it.
 - Length equals "Base width" of wall, except it shall not be less than 16' for the top 2 levels of mats at the top of the wall.
 - All Transverse Wires size W11 at various spacings as shown in 'WELDED WIRE MAT DENSITY TABLE'.
 - All Longitudinal Wires at 6" spacing, of various sizes, as shown in 'WELDED WIRE MAT DENSITY TABLE'.
 - Wire mat for 15 feet wide panel shall be 3 wire mats per Design Height "H" shown.



WELDED WIRE MAT DENSITY TABLE

Design Height, "H"	10'-0"	12'-6"	15'-0"	17'-6"	20'-0"	22'-6"	25'-0"
Base Width	8	9	11	12	14	16	18
Top Levels of Mesh	2 @ W11 x W11 + 6" x 9"	2 @ W11 x W11 + 6" x 9"	2 @ W11 x W11 + 6" x 9"	2 @ W11 x W11 + 6" x 9"	2 @ W11 x W11 + 6" x 9"	5 @ W11 x W11 + 6" x 18"	5 @ W11 x W11 + 6" x 18"
Over	@ W11 x W11 + 6" x 12"	2 @ W11 x W11 + 6" x 12"	2 @ W11 x W11 + 6" x 12"	2 @ W11 x W11 + 6" x 12"	3 @ W11 x W11 + 6" x 18"	@ W11 x W11 + 6" x 24"	@ W11 x W11 + 6" x 24"
	-	@ W11 x W11 + 6" x 18"	1 @ W11 x W11 + 6" x 18"	1 @ W11 x W11 + 6" x 18"	@ W11 x W11 + 6" x 24"	-	-
	-	-	@ W11 x W11 + 6" x 24"	@ W11 x W11 + 6" x 24"	-	-	-

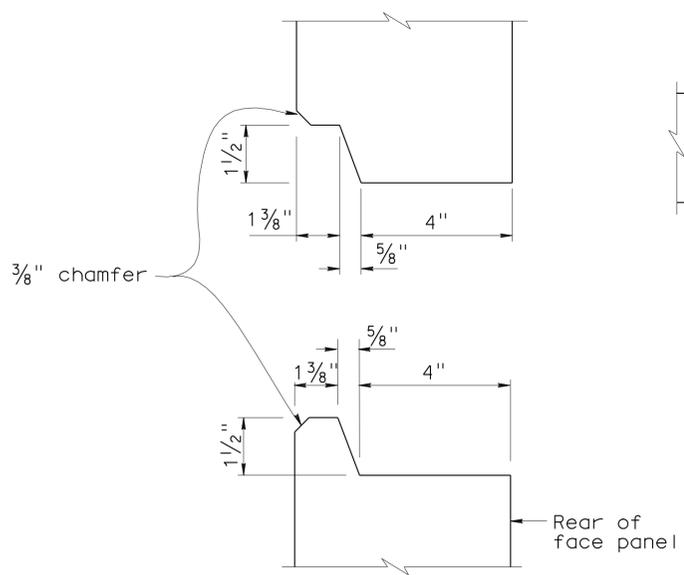
DESIGN BY Mark Okimura CHECKED Yeo Yoon DETAILS BY David Elliott CHECKED Yeo Yoon QUANTITIES BY Mark Okimura CHECKED Pauline Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0152	RETAINING WALL NO. 2 RETAINING WALL DETAILS NO. 1
			POST MILE 1.68	
			DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 10-29-09, 4-15-10, 5-24-10	

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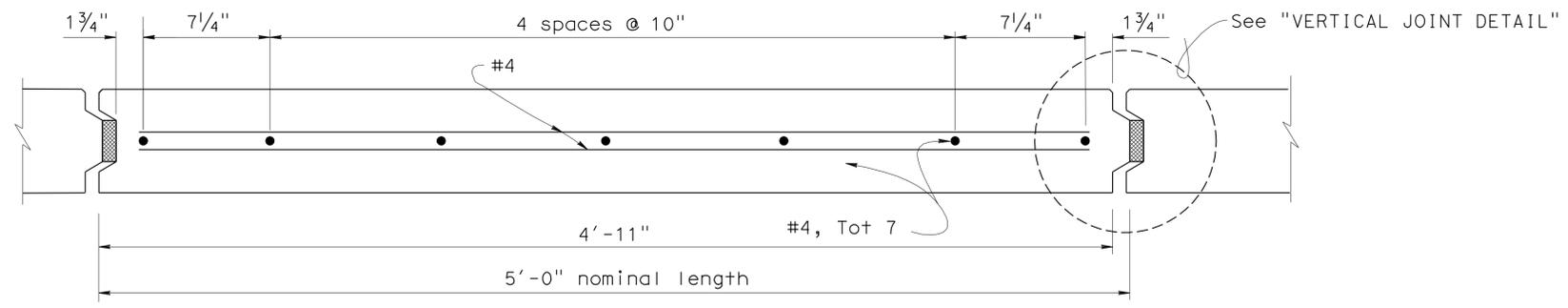
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3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
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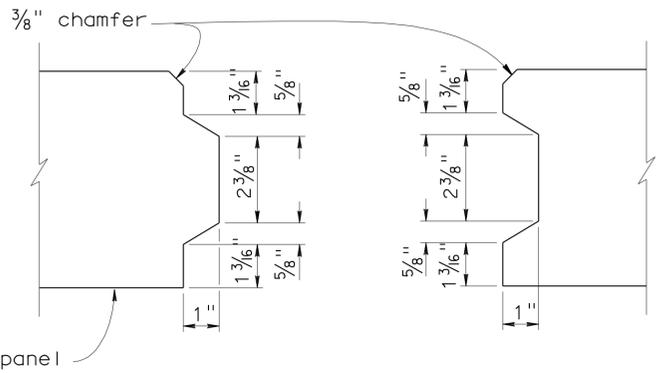
PHU V. NGUYEN
 REGISTERED PROFESSIONAL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



HORIZONTAL JOINT DETAIL
No Scale

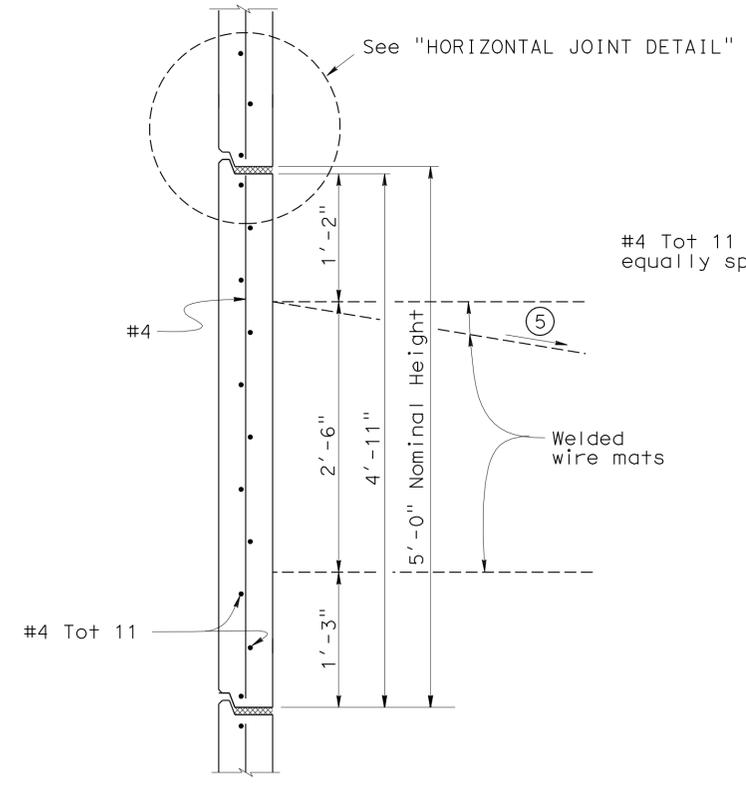


PLAN - FACE PANEL
No Scale

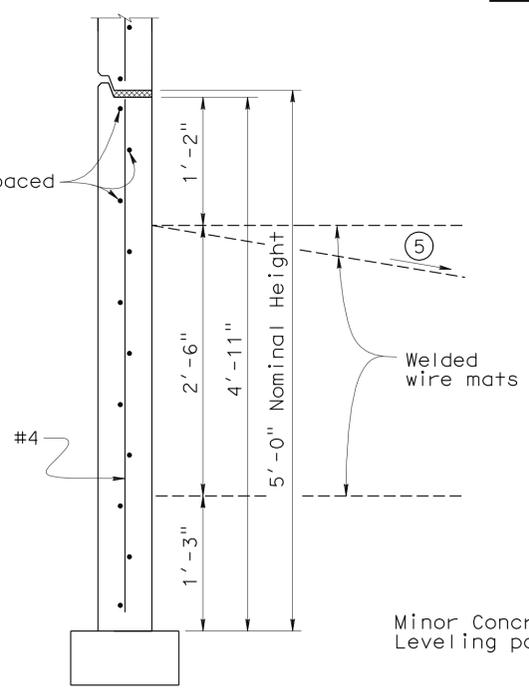


VERTICAL JOINT DETAIL
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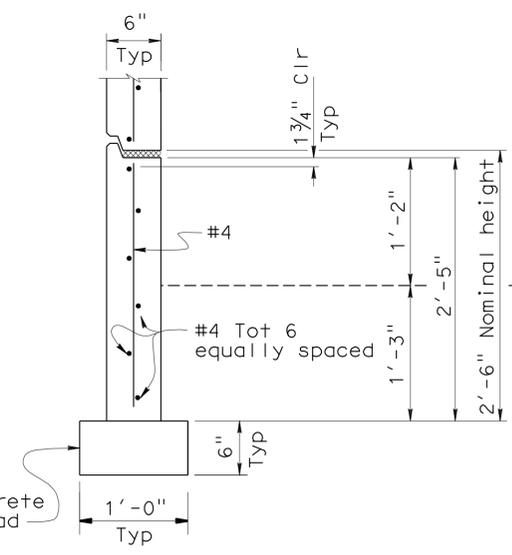
- Notes:
- Architectural treatment not shown.
 - Place reinforced elastomeric bearing pads in all of the panel joints between the panels. Place one in each vertical joint where the horizontal joint intersects it. Place two per panel in each horizontal joint. 3/4" x 2 3/8" x 6" for vertical joints. 7/4" x 4" x 6" for horizontal joints.
 - Bond a strip of filter fabric, 1'-0" wide, over the full length of all panel joints.
 - Top welded wire mat shall be sloped as required to clear roadway section.
 - 2nd to top welded wire mat shall be sloped down as required to maintain 6" min separation from other mats.
 - Dimension = 6" minimum when bottom welded wire mat is omitted.



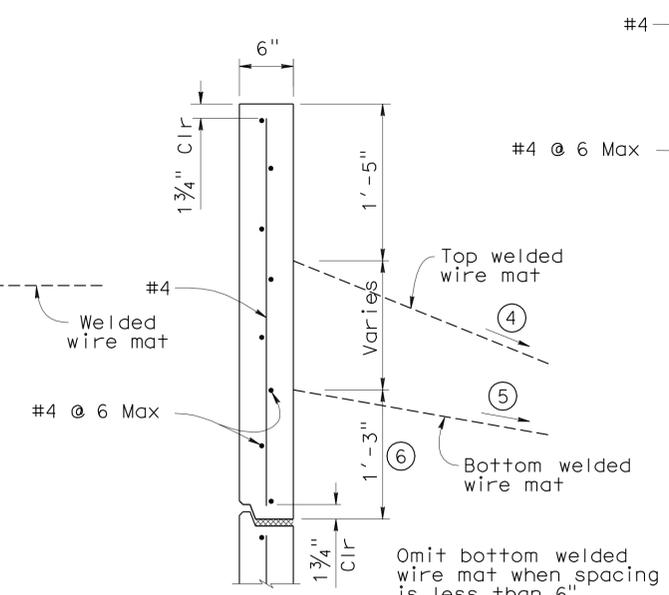
INTERMEDIATE PANEL
No Scale



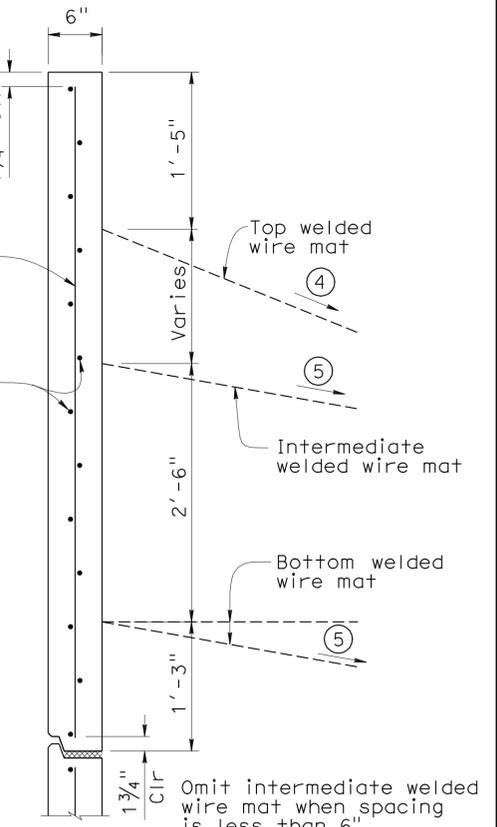
BOTTOM PANEL
No Scale



BOTTOM HALF PANEL
No Scale



TYPE "A" PANEL
No Scale

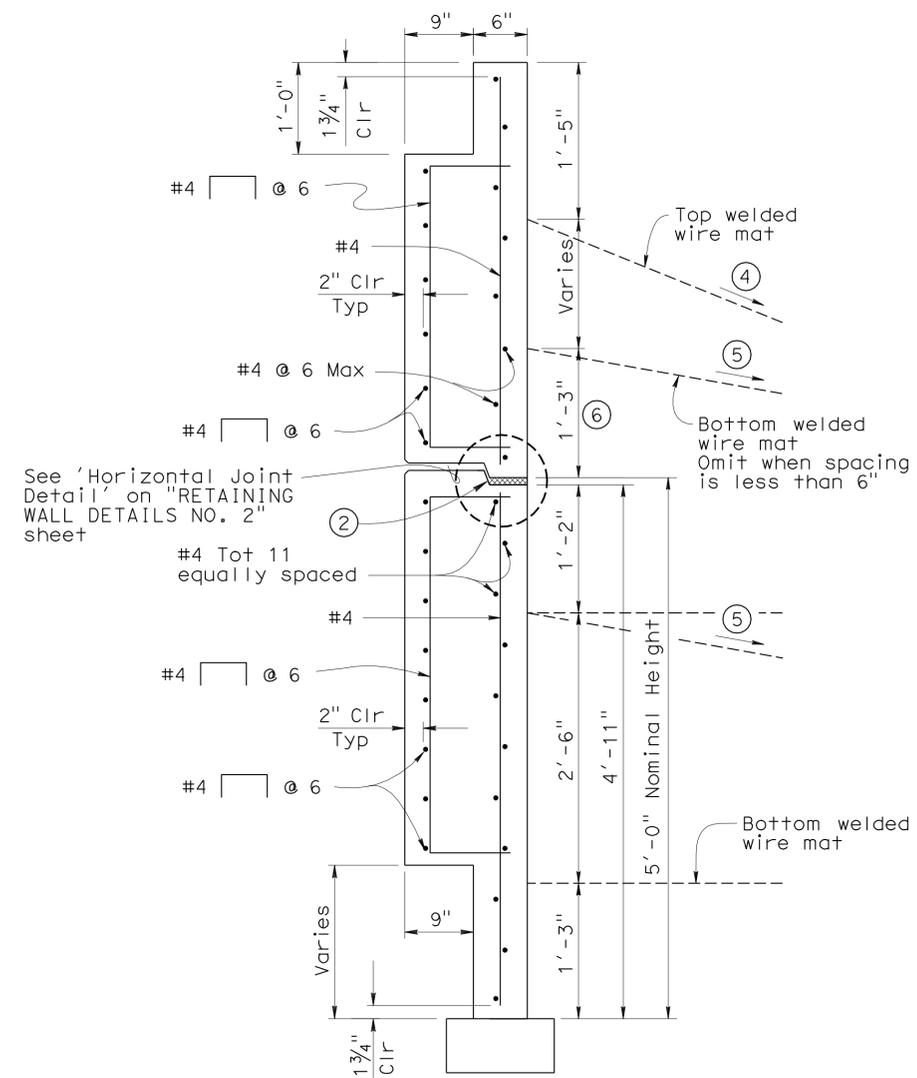


TYPE "B" PANEL
No Scale

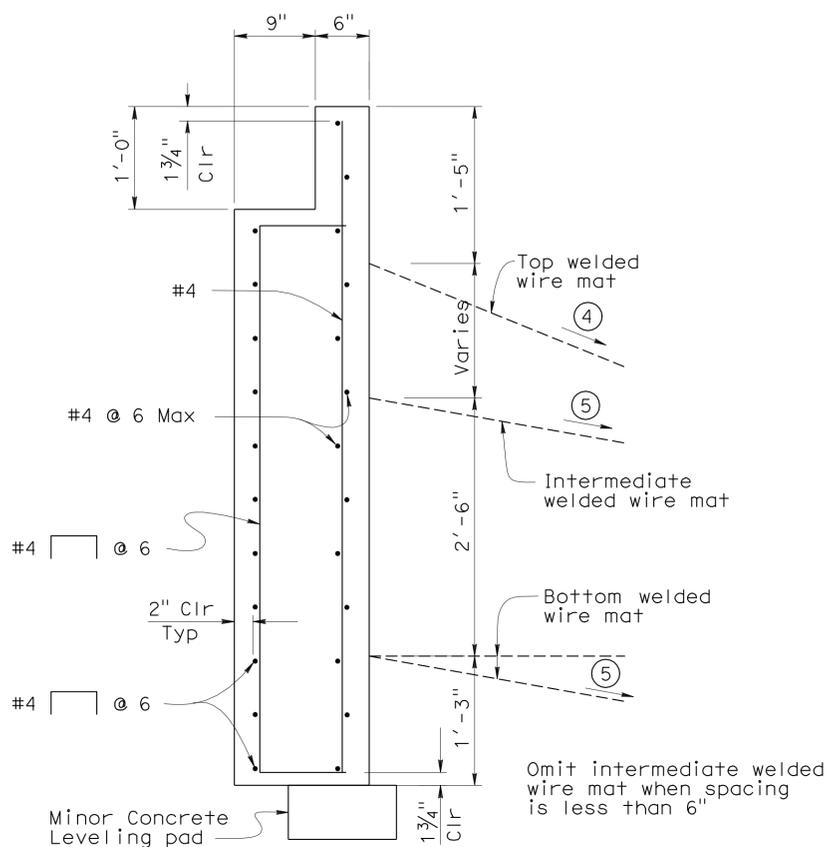
DESIGN BY Mark Okimura CHECKED Yeo Yoon DETAILS BY David Elliott CHECKED Yeo Yoon QUANTITIES BY Mark Okimura CHECKED Pauline Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0152 POST MILE 1.68	RETAINING WALL NO. 2 RETAINING WALL DETAILS NO. 2	SHEET OF 6 17
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 10-29-09 11-10 11-10 4-28-10 5-24-10	USERNAME => hrlim DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:46
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	518	602

REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 6-27-11
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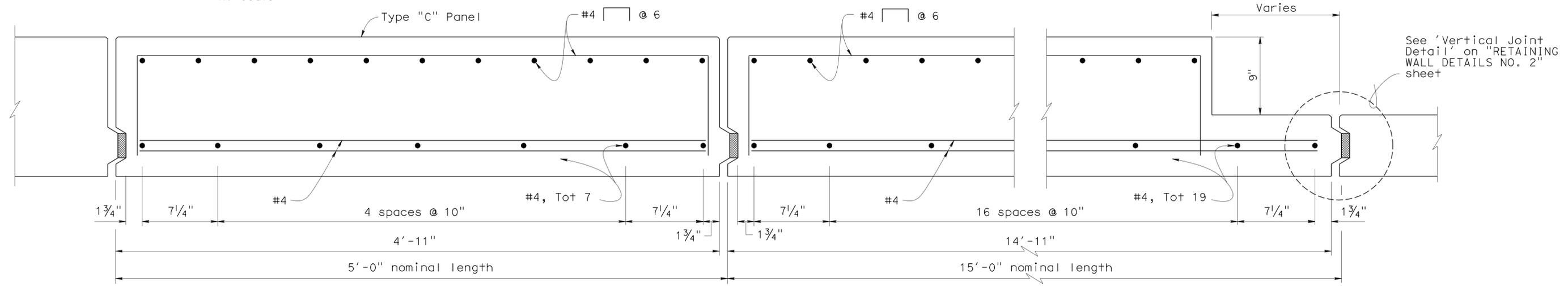


15' WIDE PANEL
No Scale



TYPE "C" PANEL
No Scale

- Notes:
- Architectural treatment not shown.
 - Place reinforced elastomeric bearing pads in all of the panel joints between the panels. Place one in each vertical joint where the horizontal joint intersects it. Place four per 15' wide panel in each horizontal joint. $\frac{3}{4}$ " x $2\frac{3}{8}$ " x 6" for vertical joints. $\frac{3}{4}$ " x 4" x 6" for horizontal joints.
 - Bond a strip of filter fabric, 1'-0" wide, over the full length of all panel joints.
 - Top welded wire mat shall be sloped as required to clear roadway section.
 - 2nd to top welded wire mat shall be sloped down as required to maintain 6" min separation from other mats.
 - Dimension = 6" minimum when bottom welded wire mat is omitted.



PLAN - TYPE "C" & 15' WIDE FACE PANEL
No Scale

DESIGN	BY Mark Okimura	CHECKED Yeo Yoon
DETAILS	BY Pauline Tong	CHECKED Yeo Yoon
QUANTITIES	BY Mark Okimura	CHECKED Pauline Tong

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

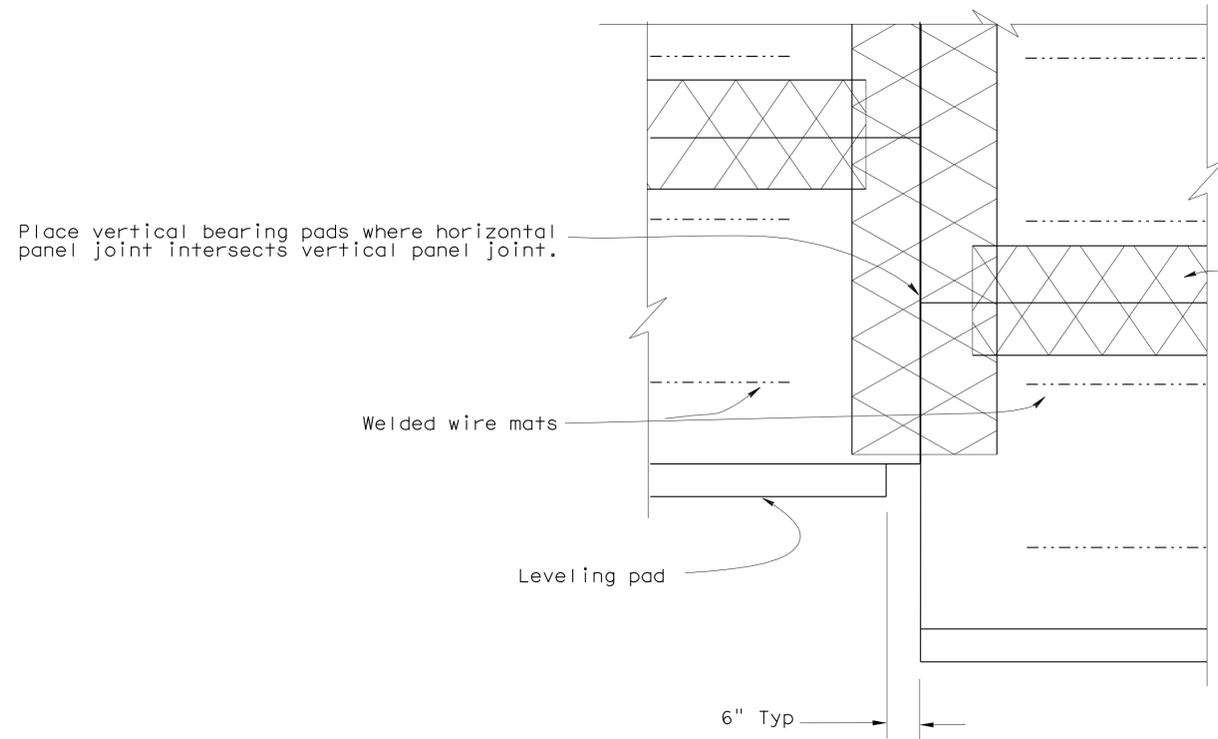
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 11

BRIDGE NO.	53E0152
POST MILE	1.68

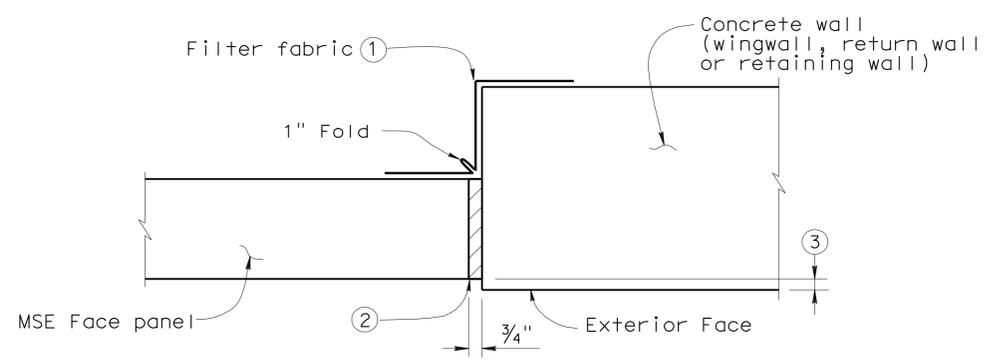
RETAINING WALL NO. 2
RETAINING WALL DETAILS NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	520	602

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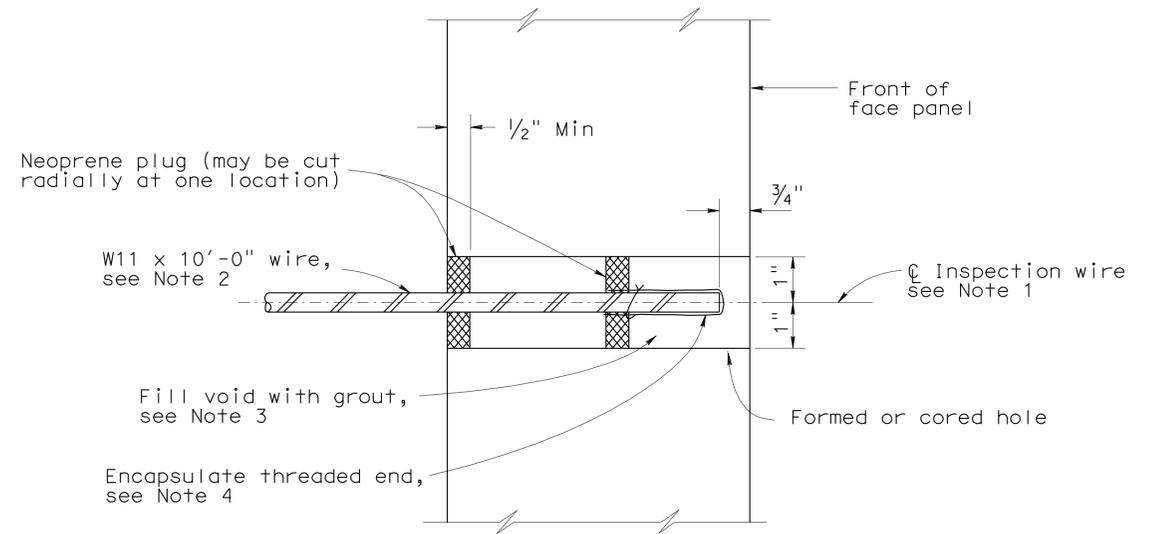
REAR ELEVATION
No Scale



MSE FACE PANEL-TO-CONCRETE WALL JOINT DETAIL
No Scale

LEGEND:

- ① Bond a strip of filter fabric, 1'-6" wide, to back of MSE panels and the adjacent concrete wall for entire length of vertical joint.
- ② Bond expansion joint material to the concrete wall.
- ③ Offset between face of MSE face panel and face of the concrete wall as dictated by location of layout lines shown elsewhere in Project Plans.



SECTION THRU INSPECTION WIRE
No Scale

NOTES:

- 1. Center inspection wire in face panel.
 - 2. Fabricate inspection wires from W11 wire representative of the welded wire mats, with 3/8" dia - 16 UNC threads for at least 1/2" of one end.
 - 3. Place inspection wire horizontal and perpendicular to the wall panel prior to backfilling. After backfill placement to a level at least 2'-0" above the inspection wire, dry pack opening with 1000 to 1500 psi mortar. Trowel mortar smooth and flush with face of panel.
 - 4. Encapsulate threaded end with corrosion inhibiting mastic, and secure round vinyl cover with nylon tie.
- UNC = Unified coarse threads

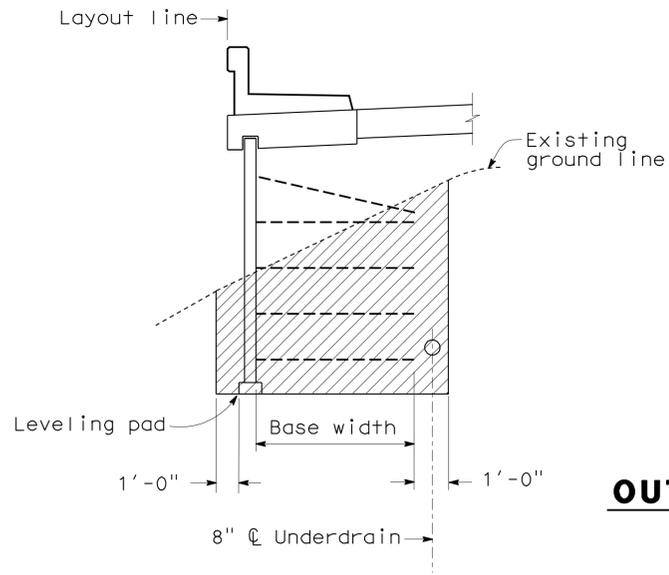
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QUANTITIES	BY Mark Okimura	CHECKED Pauline Tong						
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES		
	0 1 2 3					REVISION DATES 10-4-10 1-11-10 4-16-10 4-28-10 5-24-10		
						SHEET 9 OF 17		

USERNAME => hrlim DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:47

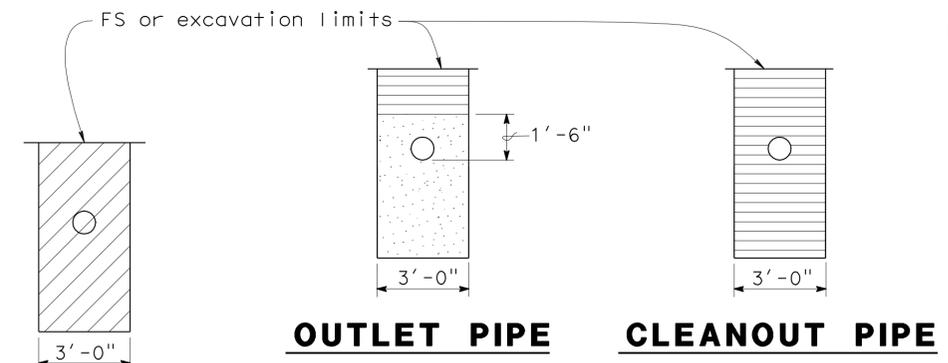
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	521	602

3-2-11
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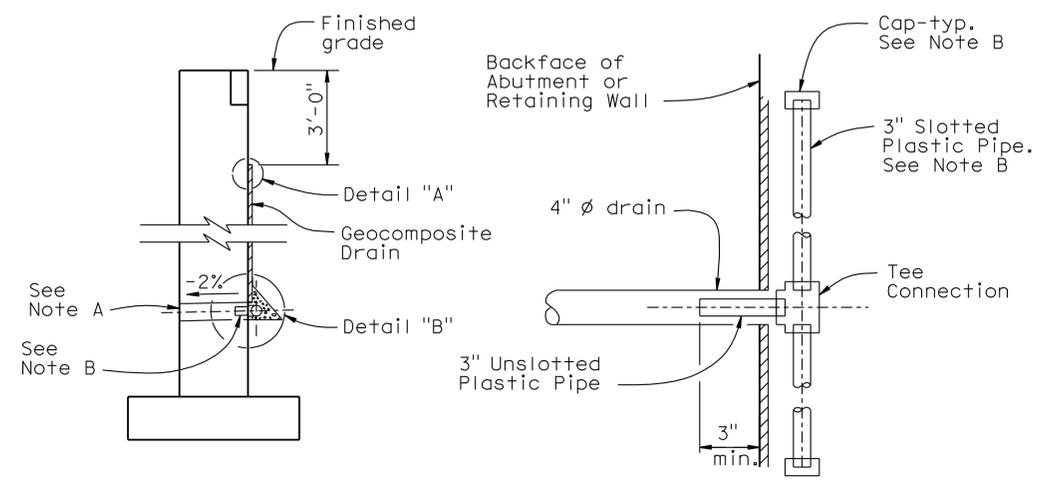
LIMITS OF EXCAVATION
No Scale



EXCAVATION BACKFILL
OUTLET OR CLEANOUT PIPE FOR UNDERDRAIN
No Scale

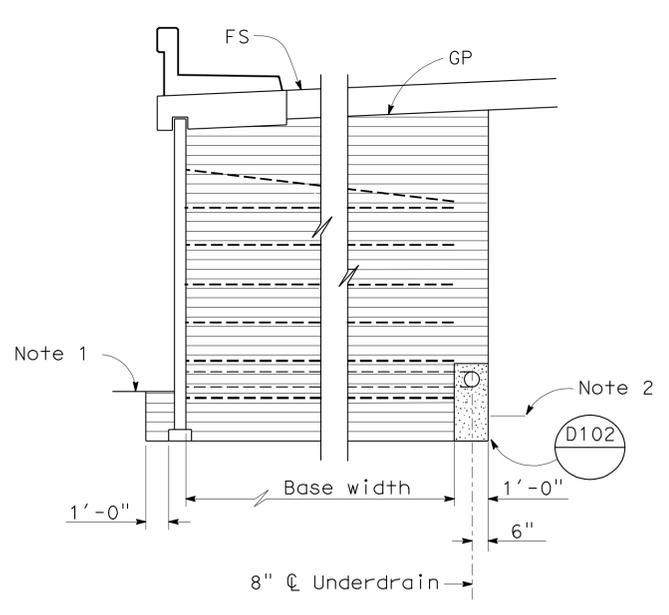
ABBREVIATIONS		LEGEND	
OG	Original ground		Limits of structure excavation
FS	Planned finished surface		Limits of structure backfill
GP	Planned grading plane		Limits of permeable material

- NOTES:
- Limits to FS except to GP when in roadway section.
 - Locate 8" perforated underdrain as shown.
 - Maximum spacing of outlet pipes is 200 ft.
 - At sags in profile of underdrain, install outlet pipe for each direction of flow.

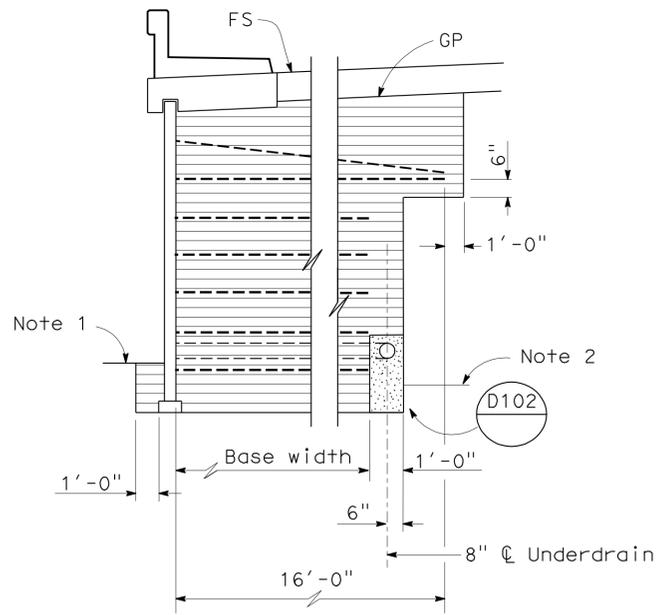


WALL SECTION SECTION A-A
DETAIL "A" DETAIL "B"
WEEP HOLE AND GEOCOMPOSITE DRAIN

- Notes:
- See "STRUCTURE PLAN NO. 3" sheet for locations. Exposed wall drains shall be located 3"± above finished grade.
 - Geocomposite drain, cement treated permeable base, and 3"Ø slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" Ø drain.
 - Connect the low end of plastic pipe to the main outlet pipe as applicable.



ROADWAY SECTION WITH BASE WIDTH 16' OR GREATER



ROADWAY SECTION WITH BASE WIDTH LESS THAN 16'

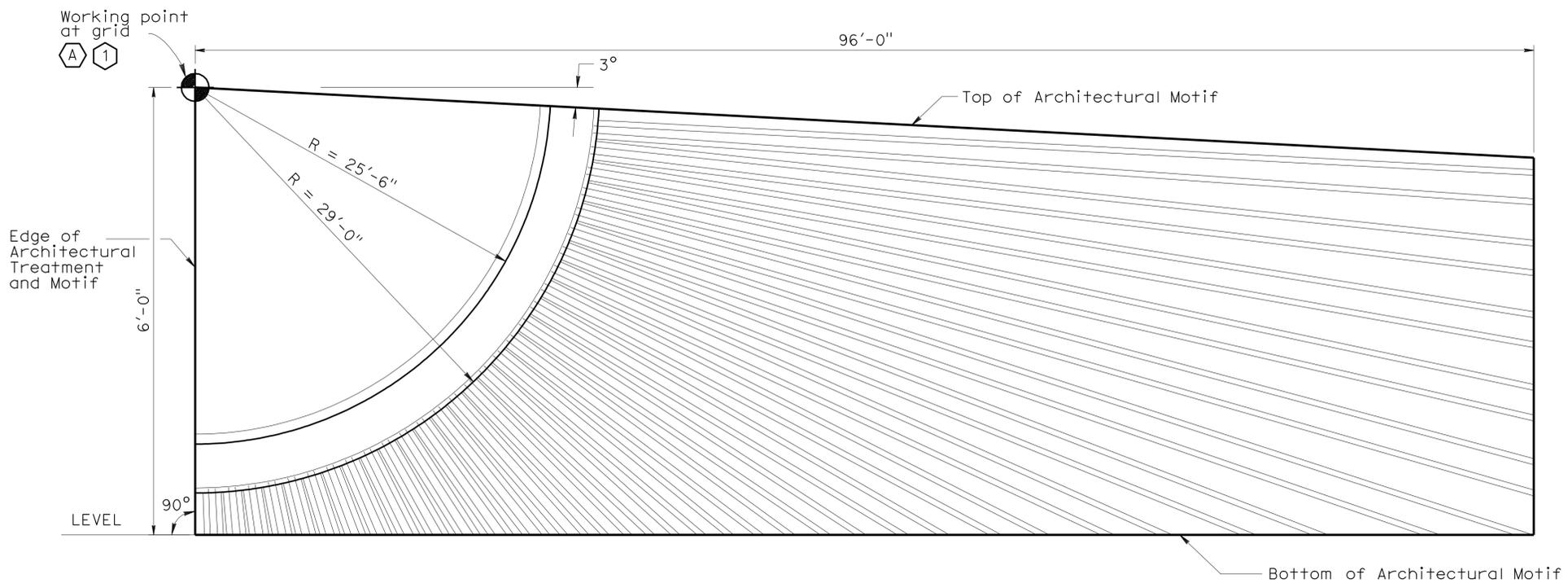
LIMITS OF BACKFILL
No Scale

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Mark Okimura	CHECKED Yeo Yoon	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 2	
	DETAILS	BY David Elliott	CHECKED Yeo Yoon			53E0152	RETAINING WALL DETAILS NO. 6	
	QUANTITIES	BY Mark Okimura	CHECKED Pauline Tong			POST MILE 1.68		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 07227 EA 215911	REVISION DATES		SHEET 10 OF 17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	522	602

Phu V. Nguyen 3-2-11
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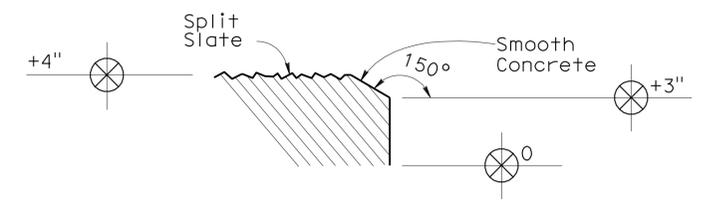
REGISTERED PROFESSIONAL ENGINEER
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 No. 60358
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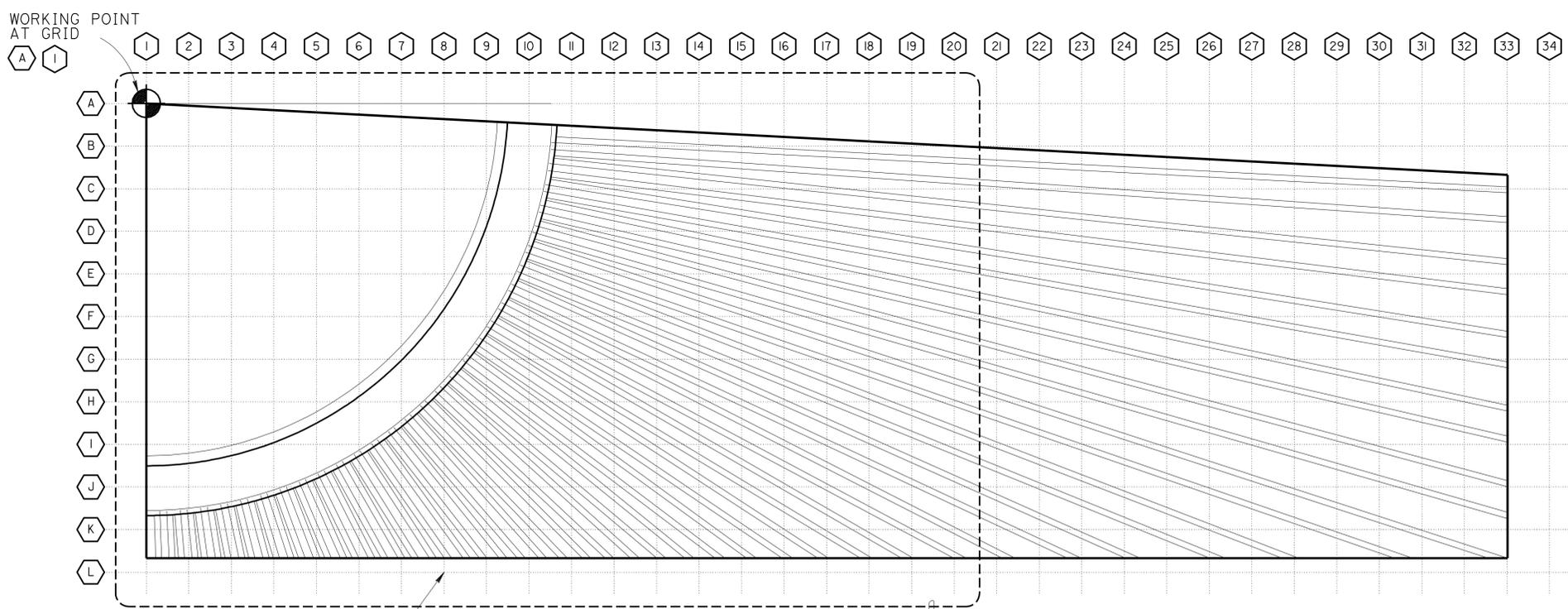
MIRRORED ARCHITECTURAL MOTIF LAYOUT

3/16" = 1'-0"

Note: All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL, typical



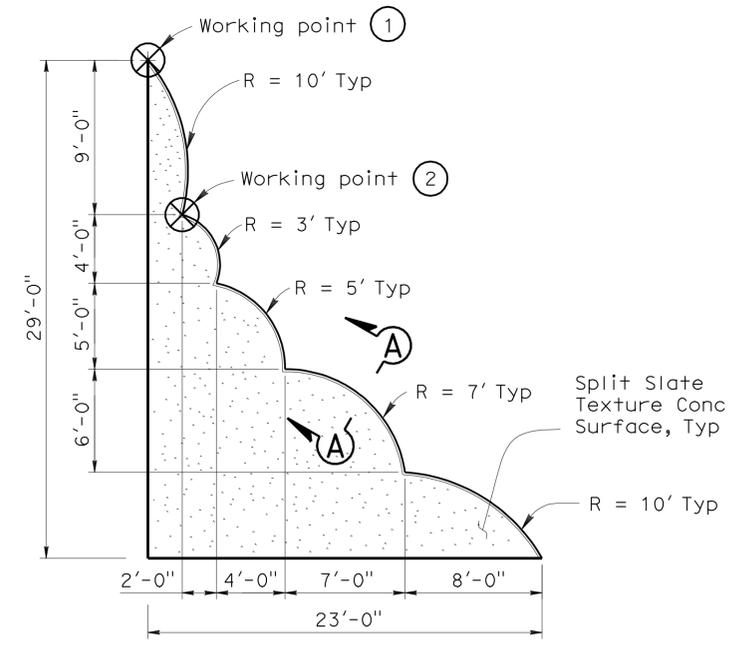
SECTION A-A
No Scale



MIRRORED ARCHITECTURAL MOTIF ELEVATION

3/16" = 1'-0"

See 'Partial Mirrored Architectural Motif Elevation' on "ARCHITECTURAL TREATMENT DETAILS NO. 2" sheet



DETAIL C
3/16" = 1'-0"

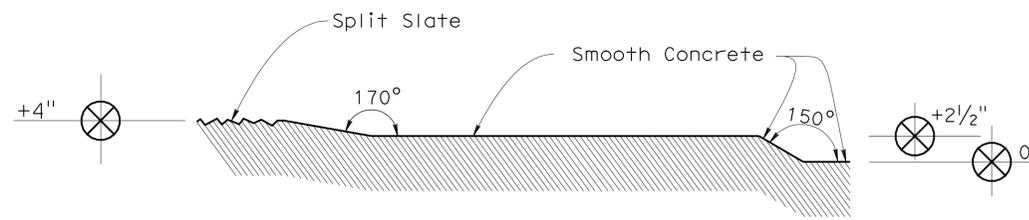
Note: For 'Detail C' location see "ARCHITECTURAL TREATMENT DETAILS NO. 3" sheet.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 2				
	DETAILS	BY Pauline Tong	CHECKED Javier Chavez			53E0152	ARCHITECTURAL TREATMENT DETAILS NO. 1				
	QUANTITIES	BY Mark Okiruma	CHECKED Pauline Tong			POST MILE	1.68	REVISION DATES			
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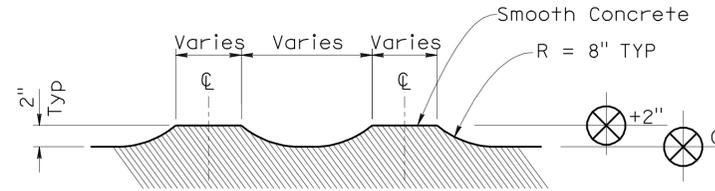
DATE PLOTTED => 30-JUN-2011 USERNAME => hrlim FILE => rw2-u-archd+01.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	523	602

REGISTERED CIVIL ENGINEER DATE 3-2-11
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SECTION B-B
No Scale

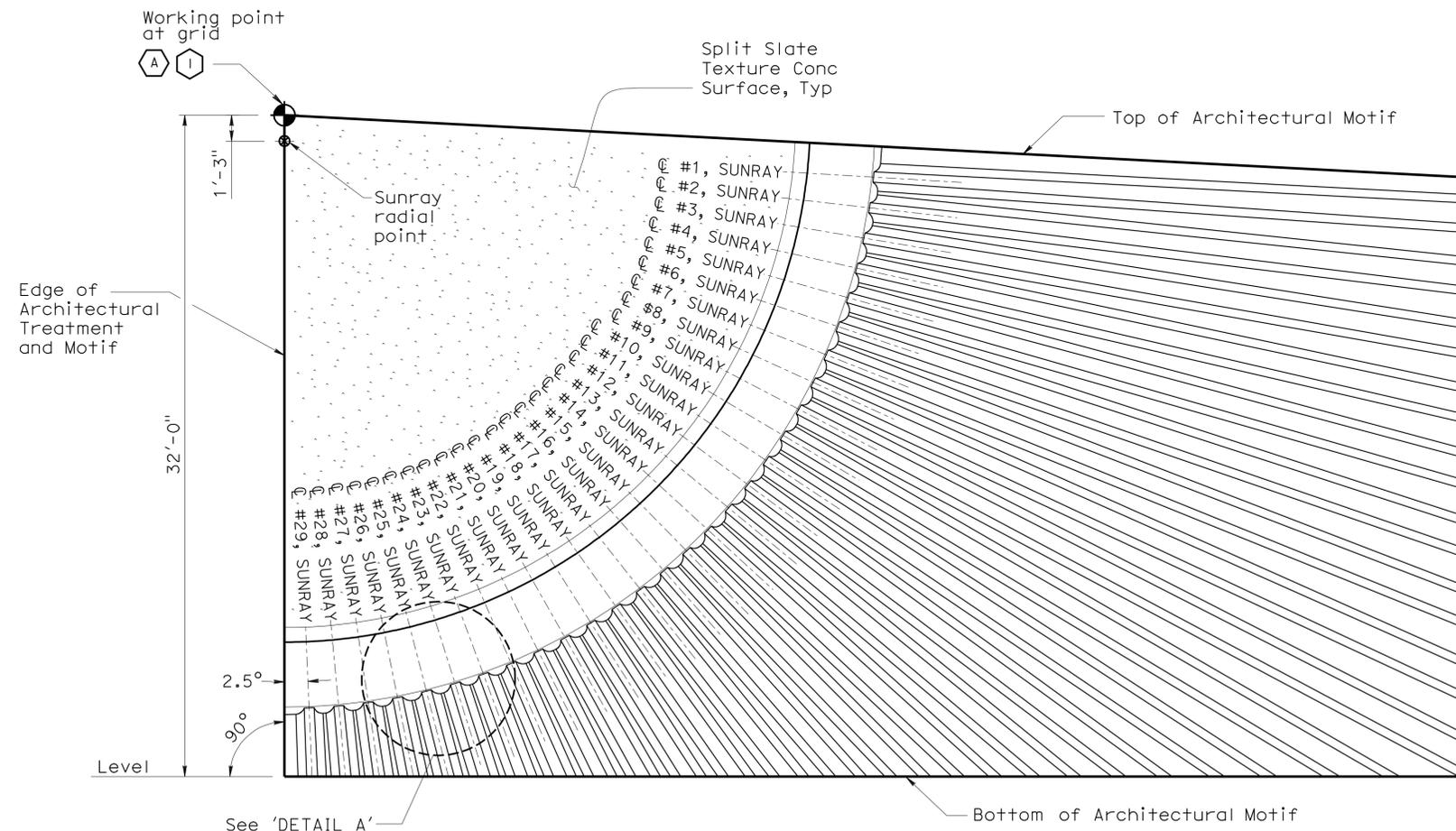


SECTION C-C
No Scale

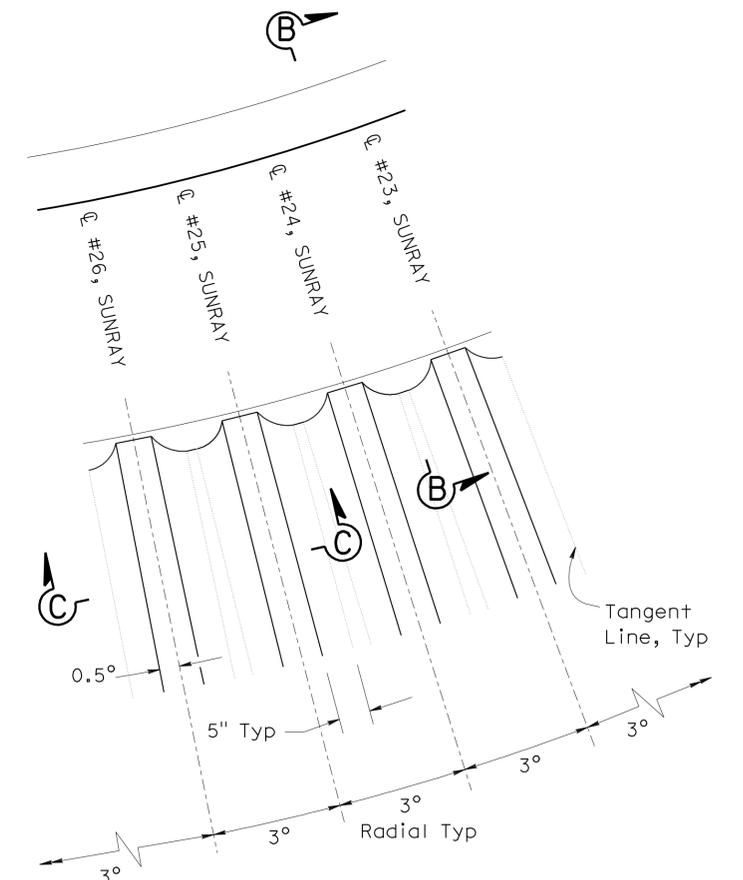
Note: All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL, typical

Legend:

- Split Slate Texture Concrete Surface
- Smooth Concrete Surface



PARTIAL MIRRORED ARCHITECTURAL MOTIF ELEVATION
1/4"=1'-0"



DETAIL A
3/4"=1'-0"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 2			
	DETAILS	BY Pauline Tong	CHECKED Javier Chavez			53E0152	ARCHITECTURAL TREATMENT DETAILS NO. 2			
	QUANTITIES	BY Mark Okiruma	CHECKED Pauline Tong			POST MILE 1.68				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES				SHEET 12 OF 17

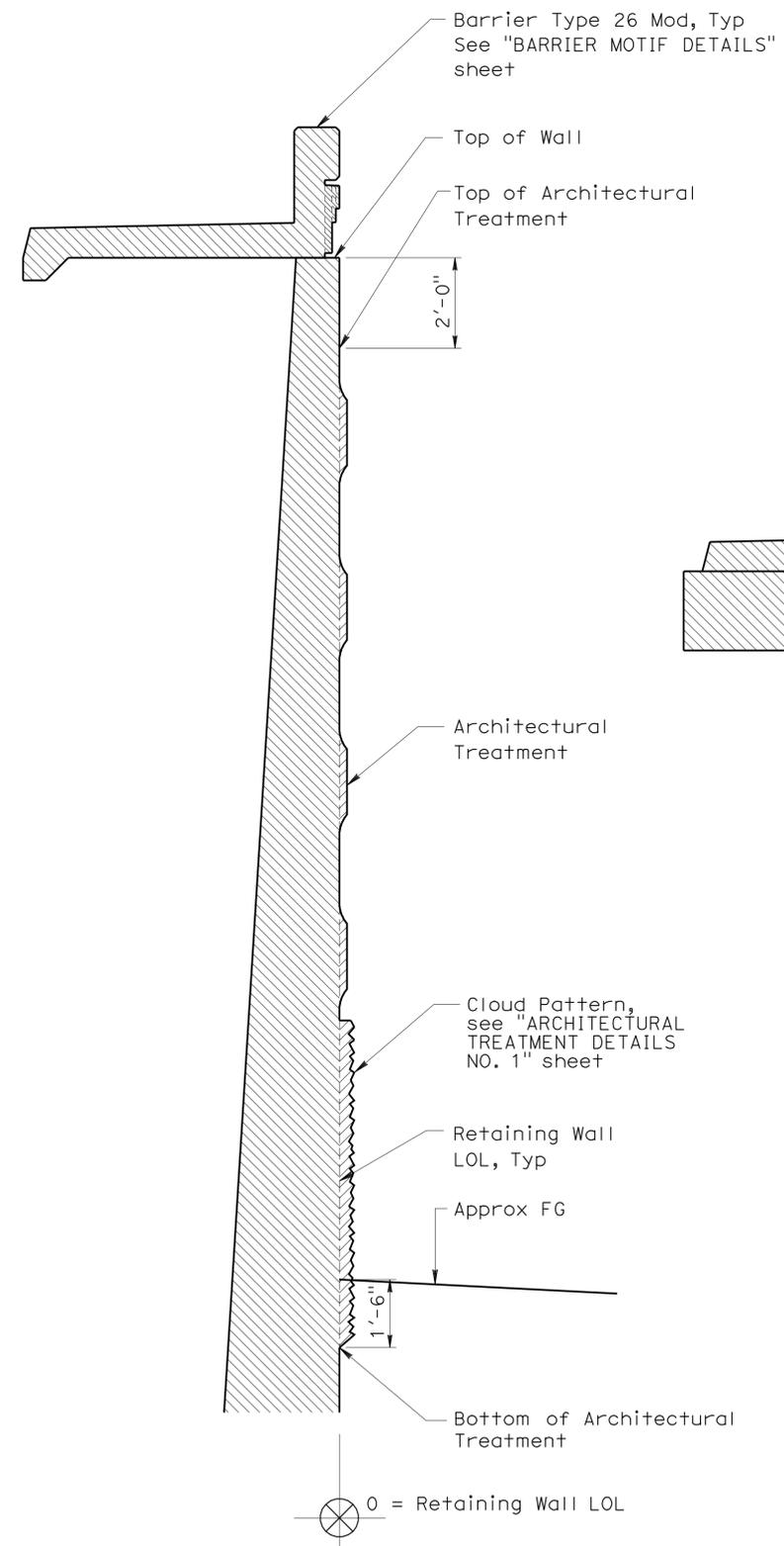
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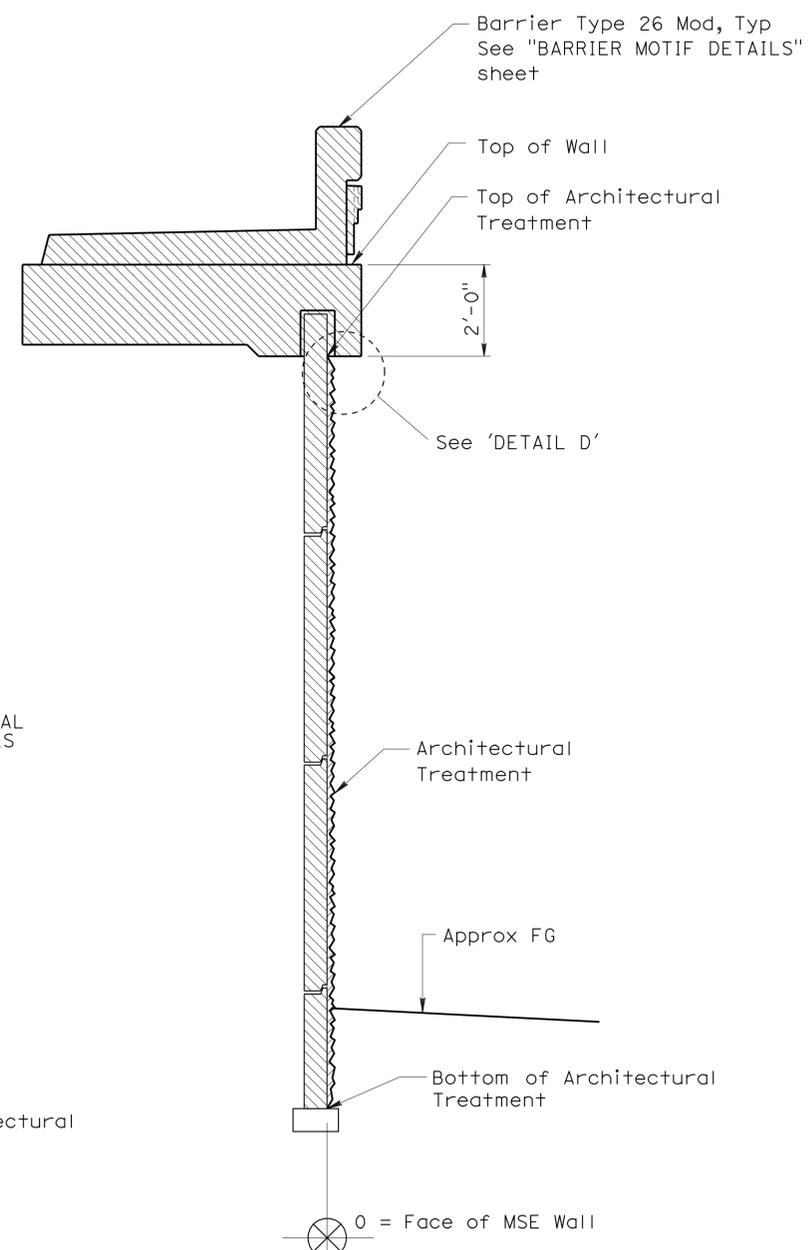
Phu V. Nguyen 3-2-11
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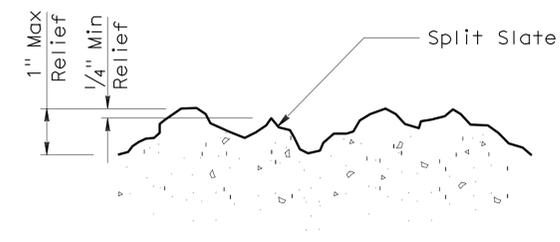
Note: All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL or face of MSE wall, Typical



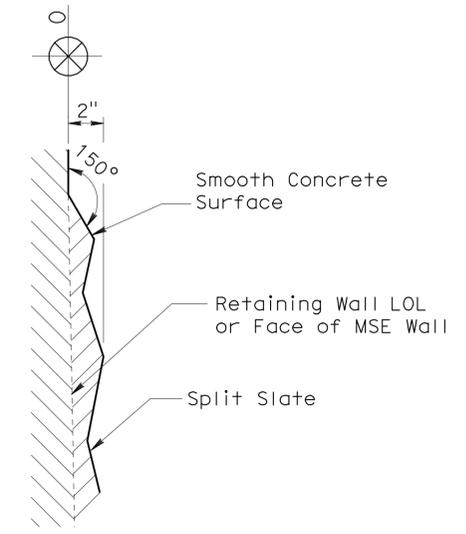
SECTION F-F
No Scale



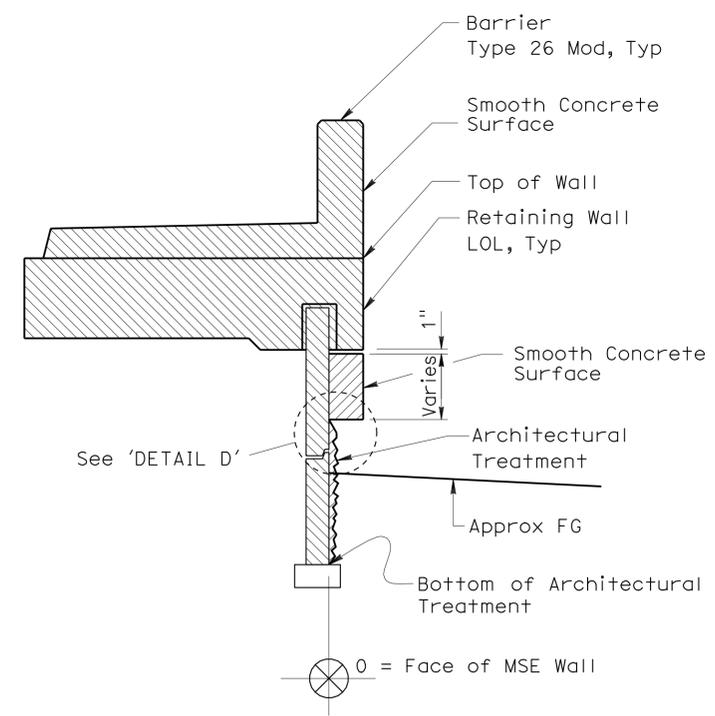
SECTION G-G
No Scale



SPLIT SLATE TEXTURE
No Scale



DETAIL D
No Scale

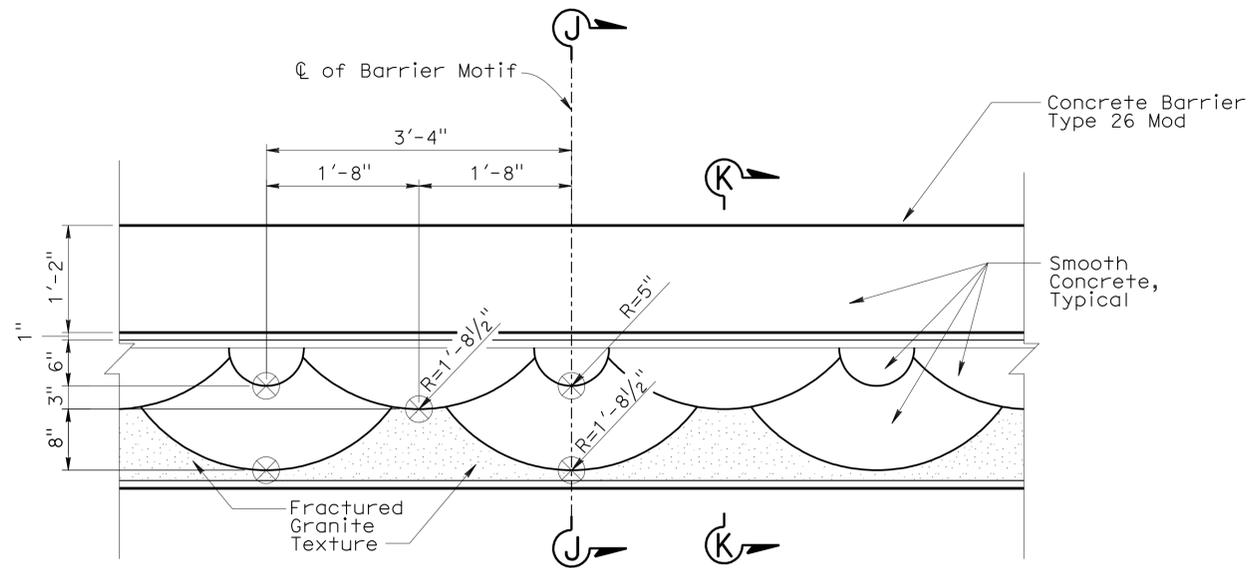


SECTION H-H
No Scale

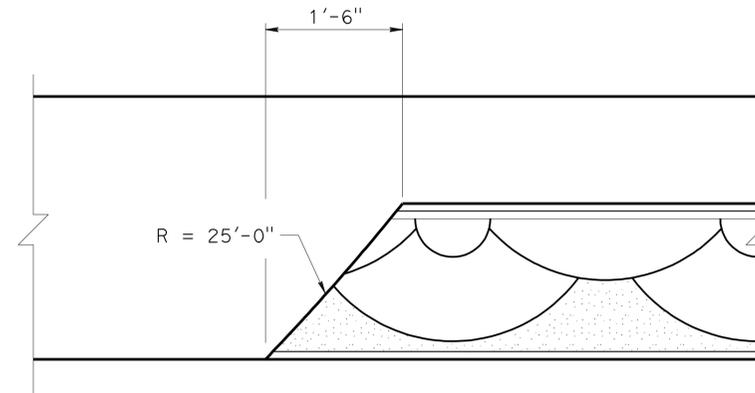
DESIGN BY Javier Chavez CHECKED Isaac Tasabia DETAILS BY Pauline Tong CHECKED Javier Chavez QUANTITIES BY Mark Okiruma CHECKED Pauline Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0152 POST MILE 1.68	RETAINING WALL NO. 2 ARCHITECTURAL TREATMENT DETAILS NO. 4	REVISION DATES SHEET 14 OF 17
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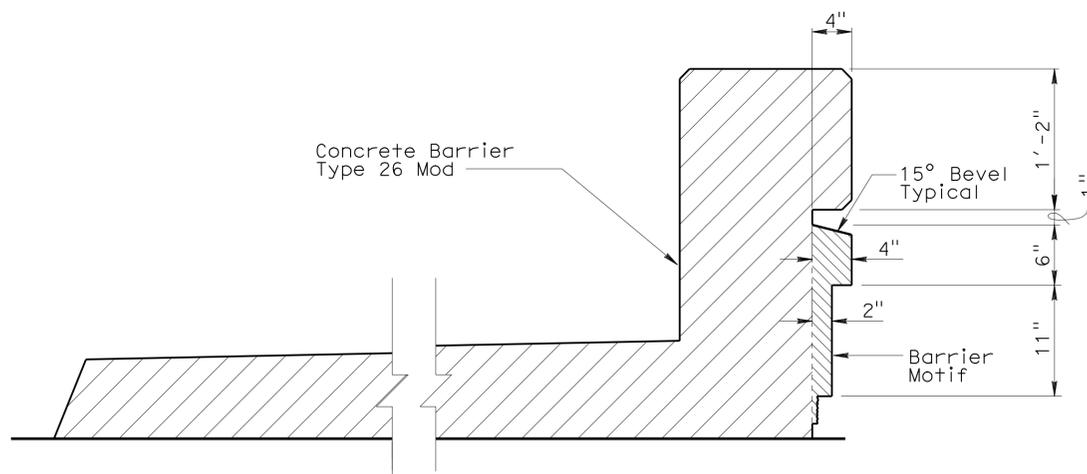
Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
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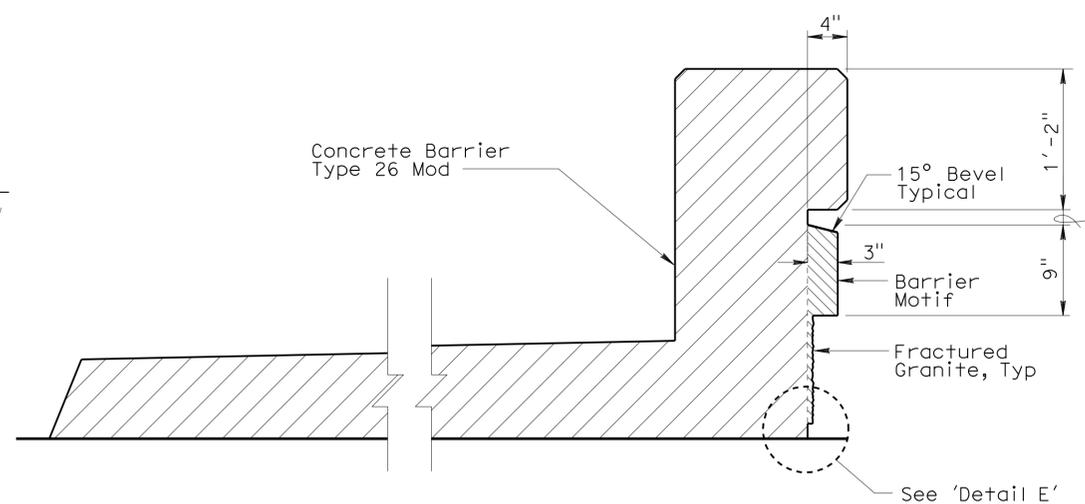
ELEVATION - BARRIER MOTIF
No Scale



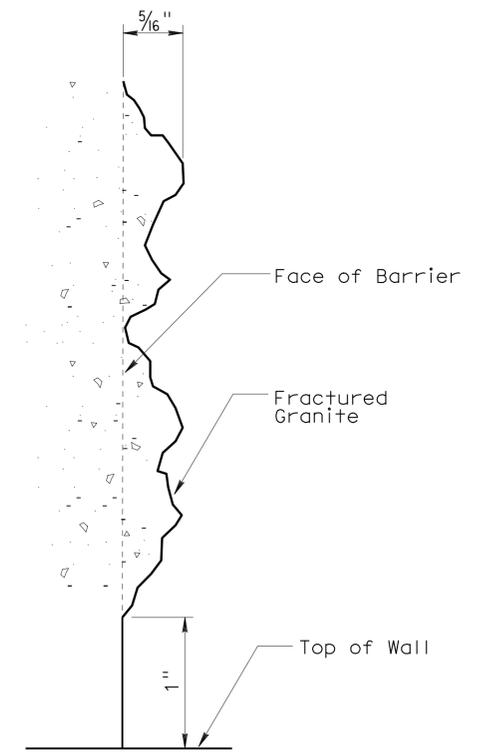
BARRIER END DETAIL
No Scale



SECTION J-J
No Scale



SECTION K-K
No Scale



DETAIL E
No Scale

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 2					
	DETAILS	BY Pauline Tong	CHECKED Javier Chavez			53E0152	BARRIER MOTIF DETAILS					
	QUANTITIES	BY Mark Okiruma	CHECKED Pauline Tong			POST MILE 1.68	REVISION DATES					
							3-29-10	4-14-10	5-24-10			SHEET 15 OF 17

USERNAME => s124496 DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:05

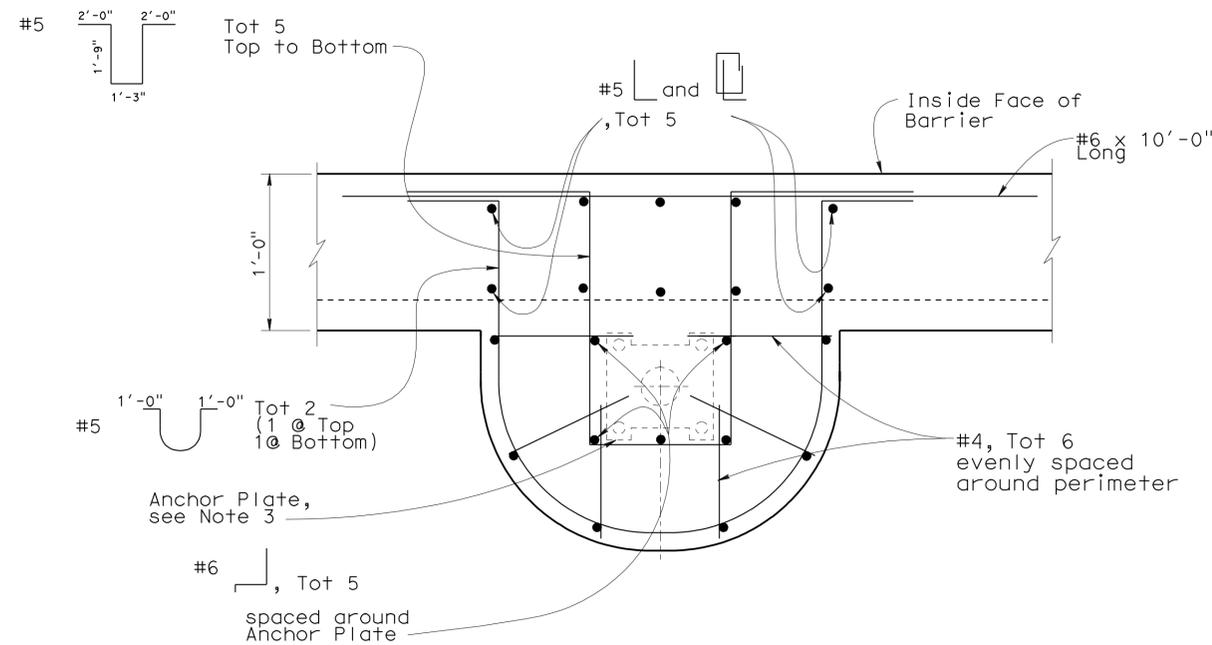
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	528	602

Phu Vuong Nguyen 3-2-11
REGISTERED CIVIL ENGINEER DATE

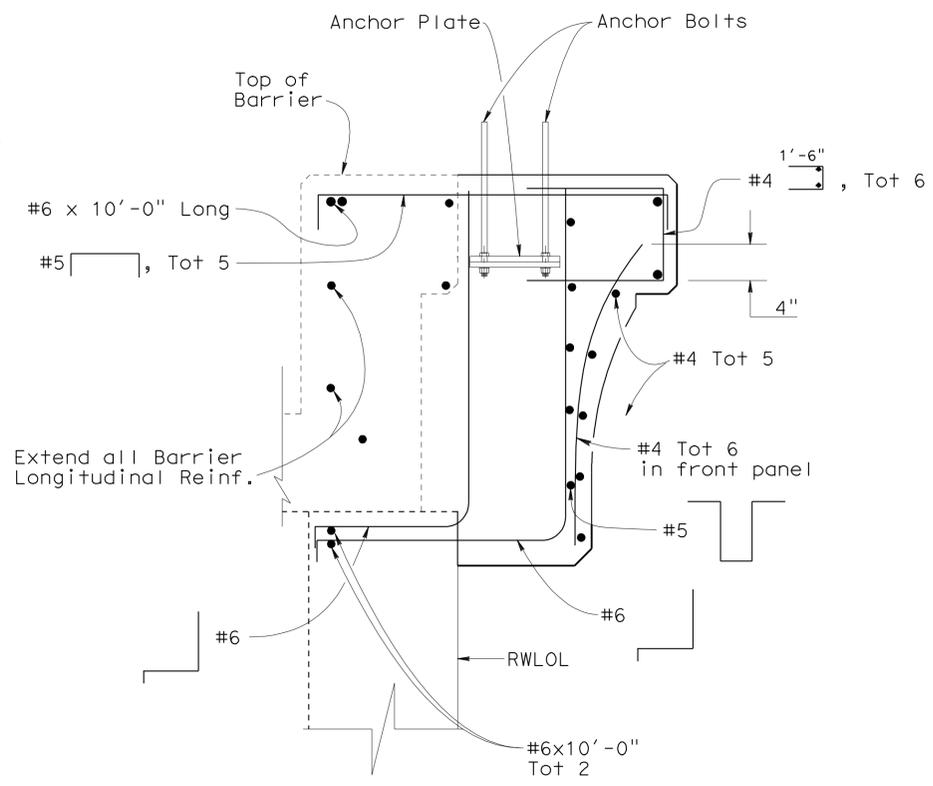
6-27-11
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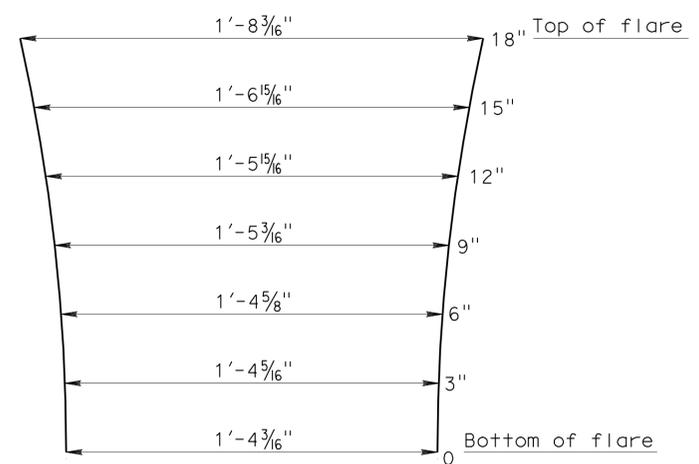


SECTION D-D

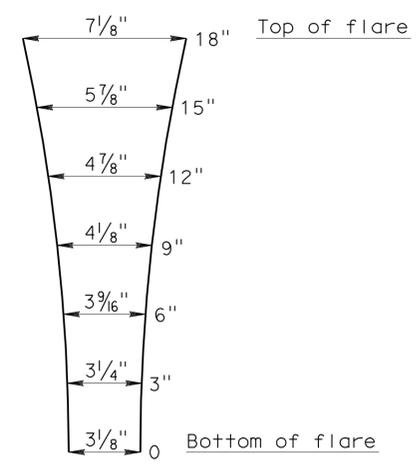


SECTION E-E

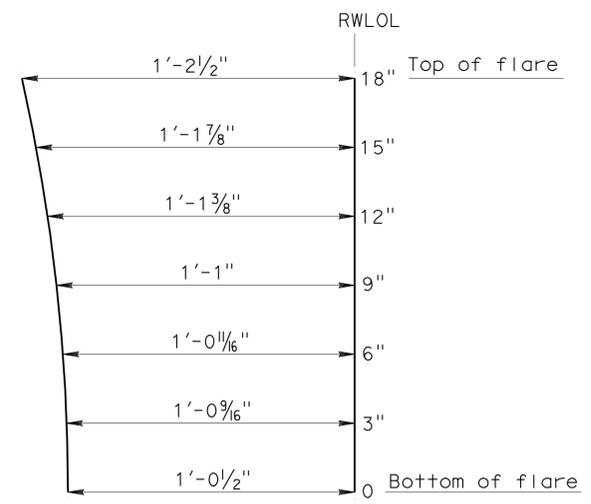
- NOTES:**
1. For other Details, see "LUMINAIRE CORBEL DETAILS No. 1" sheet.
 2. All bars not shown, For Barrier Details, see (B11-54)
 3. For Electrolier details see "ROAD PLANS"
 4. No Splice allowed in Barrier Longitudinal reinf within 10 ft distance on each side of Electrolier location.



FRONT PANEL FACE



CORNER PANEL FACE



SIDE PANEL FACE

NO SCALE

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Mark Okimura	CHECKED Krishnakant Andurlekar	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 2			
	DETAILS	BY Jaime Ramirez	CHECKED Mark Okimura			53E0152	LUMINAIRE CORBEL DETAILS No. 2			
	QUANTITIES	BY Krishnakant Andurlekar	CHECKED Mark Okimura			POST MILE 1.68				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES				SHEET 17 OF 17

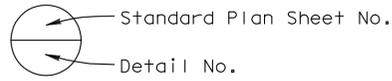
USERNAME => s124496 DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	529	602

REGISTERED CIVIL ENGINEER *Phu V. Nguyen* DATE 3-2-11
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STANDARD PLANS
Dated May 2006

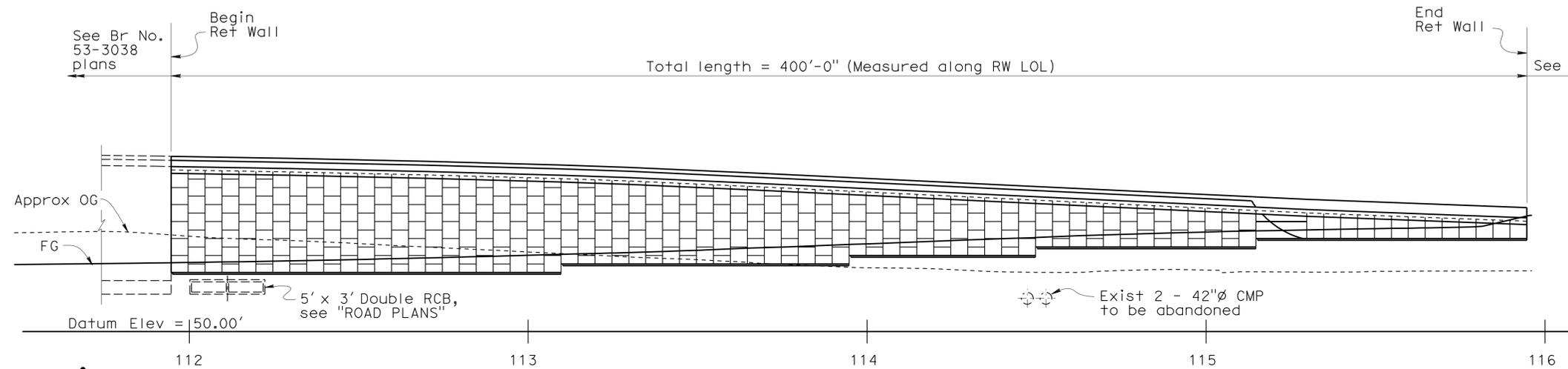
- A10A ACRONYMS AND ABBREVIATIONS (A-L)
- A10B ACRONYMS AND ABBREVIATIONS (M-Z)
- D102 UNDERDRAINS
- B11-54 CONCRETE BARRIER TYPE 26



INDEX TO PLANS

Sheet No.	Title
1	GENERAL PLAN
2	STRUCTURE PLAN NO. 1
3	STRUCTURE PLAN NO. 2
4	RETAINING WALL DETAILS NO. 1
5	RETAINING WALL DETAILS NO. 2
6	RETAINING WALL DETAILS NO. 3
7	RETAINING WALL DETAILS NO. 4
8	RETAINING WALL DETAILS NO. 5
9	RETAINING WALL DETAILS NO. 6
10	ARCHITECTURAL TREATMENT DETAILS NO. 1
11	ARCHITECTURAL TREATMENT DETAILS NO. 2
12	BARRIER MOTIF DETAILS

QUANTITIES	
EARTH RETAINING STRUCTURE, LOCATION C	7,640 SQFT
STRUCTURAL CONCRETE, BARRIER SLAB	190 CY
ARCHITECTURAL SURFACE (BARRIER)	587 SQFT
CONCRETE BARRIER (TYPE 26 MODIFIED)	400 LF



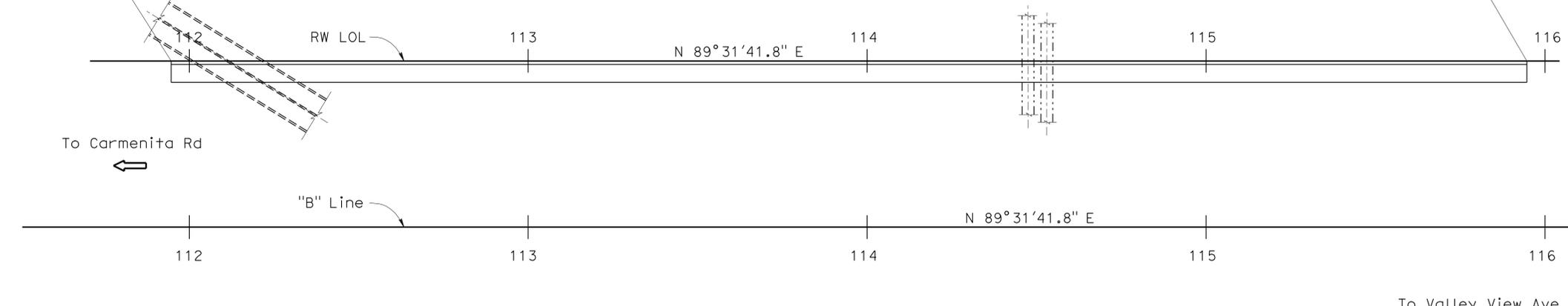
MIRRORED ELEVATION

1" = 20'



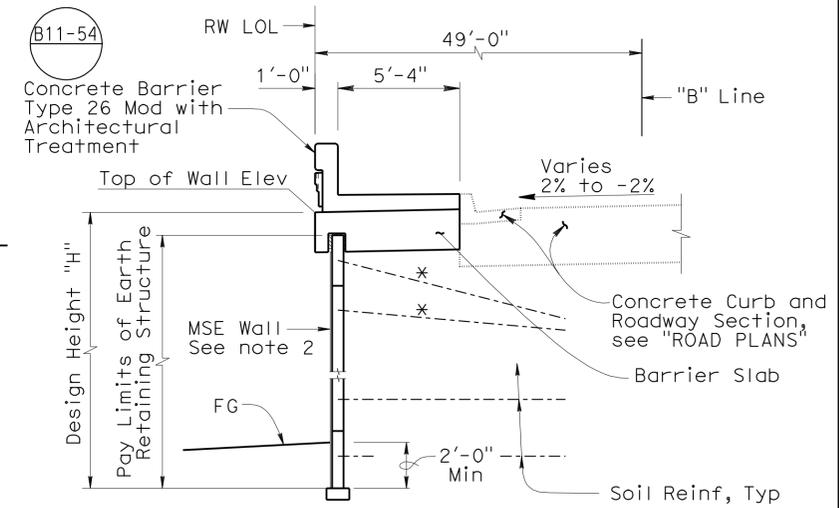
Begin Retaining Wall No. 3
Sta 111+94.67 =
49.0' Lt "B" Line
Sta 111+94.67

End Retaining Wall No. 3
Sta 115+94.67 =
49.0' Lt "B" Line
Sta 115+94.67



PLAN

1" = 20'



TYPICAL SECTION AT MSE WALL

1/4"=1'-0"

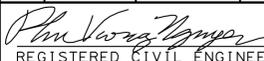
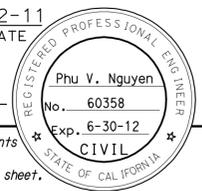
Notes:

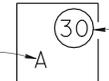
1. Maintain a minimum of 6" between soil reinforcements, Typ
 2. Precast Concrete Panels with Architectural Treatment (Split Slate Texture)
- * For slope, see "RETAINING WALL DETAILS NO. 2 and NO. 3" sheets

Ramin Rashedi DESIGN ENGINEER	DESIGN	BY Mark Okimura	CHECKED Phu Nguyen	LAYOUT	BY Mark Okimura	CHECKED Phu Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	53E0153	RETAINING WALL NO. 3 GENERAL PLAN				
	DETAILS	BY Gerald Dickerson	CHECKED Phu Nguyen		BY Mark Okimura	CHECKED Phu Nguyen			POST MILE	1.68					
	QUANTITIES	BY Mark Okimura	CHECKED Phu Nguyen		SPECIFICATIONS	BY Theresa Nedwick			PLANS AND SPECS COMPARED	Theresa Nedwick		CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th>REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>1-11-10</td> <td>1</td> <td>12</td> </tr> </table>	REVISION DATES
REVISION DATES	SHEET	OF													
1-11-10	1	12													

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

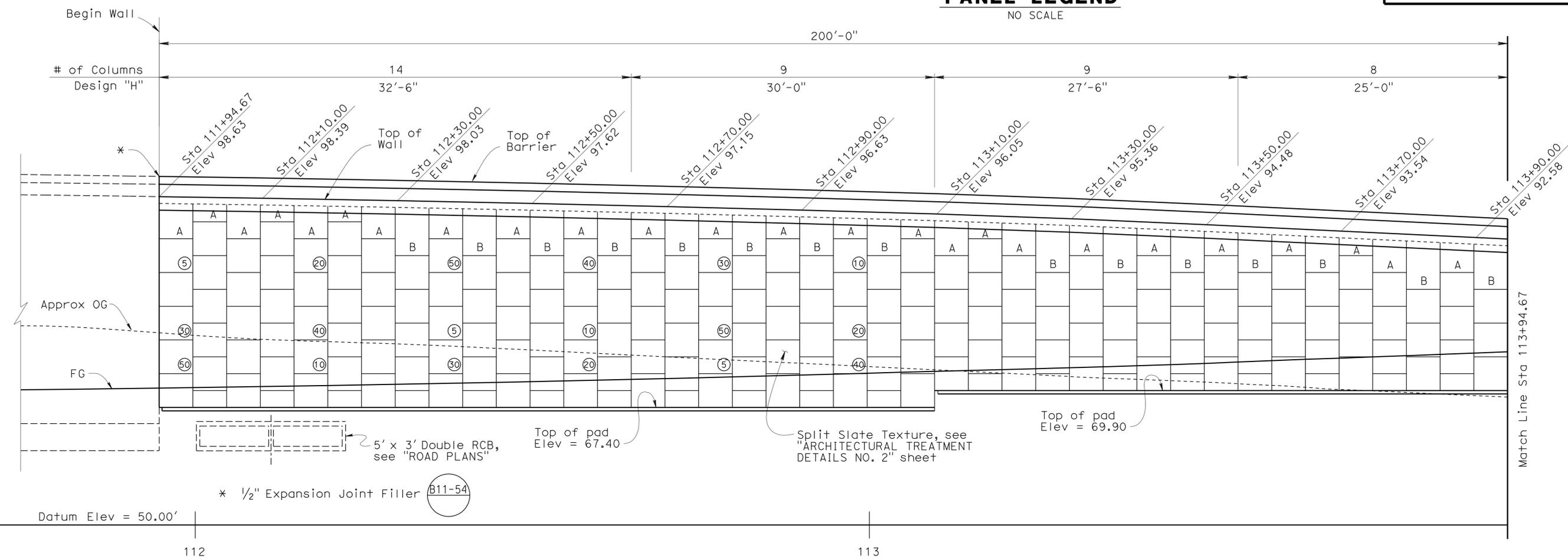
FILE => rw3-a-gp01.dgn

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 REGISTERED CIVIL ENGINEER			DATE	3-2-11	
PLANS APPROVAL DATE 6-27-11					
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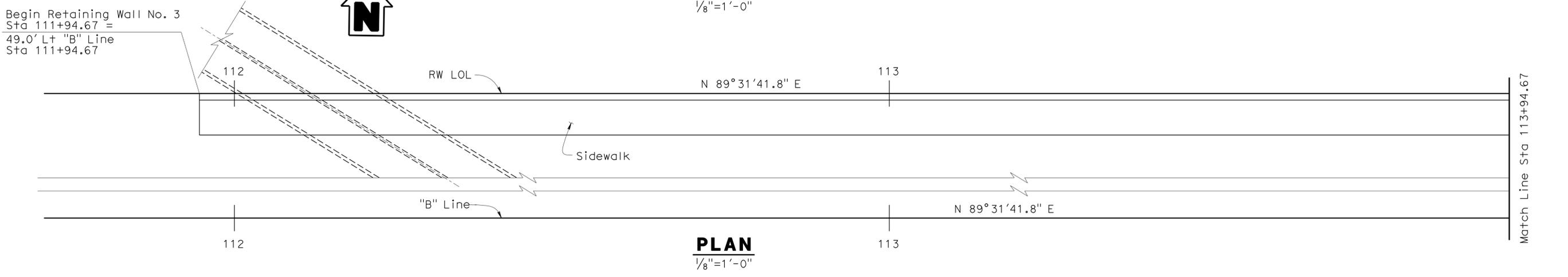

 Indicates interval in years from time of construction to time of removal of inspection wire

 Indicates panel type designation. For details, see "RETAINING WALL DETAILS NO. 2 & NO. 3" sheets

PANEL LEGEND
NO SCALE



MIRRORED ELEVATION
1/8" = 1'-0"



PLAN
1/8" = 1'-0"

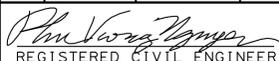
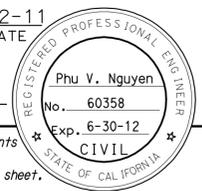
DESIGN	BY Mark Okimura	CHECKED Phu Nguyen
DETAILS	BY Pauline Tong	CHECKED Phu Nguyen
QUANTITIES	BY Mark Okimura	CHECKED Phu Nguyen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 11

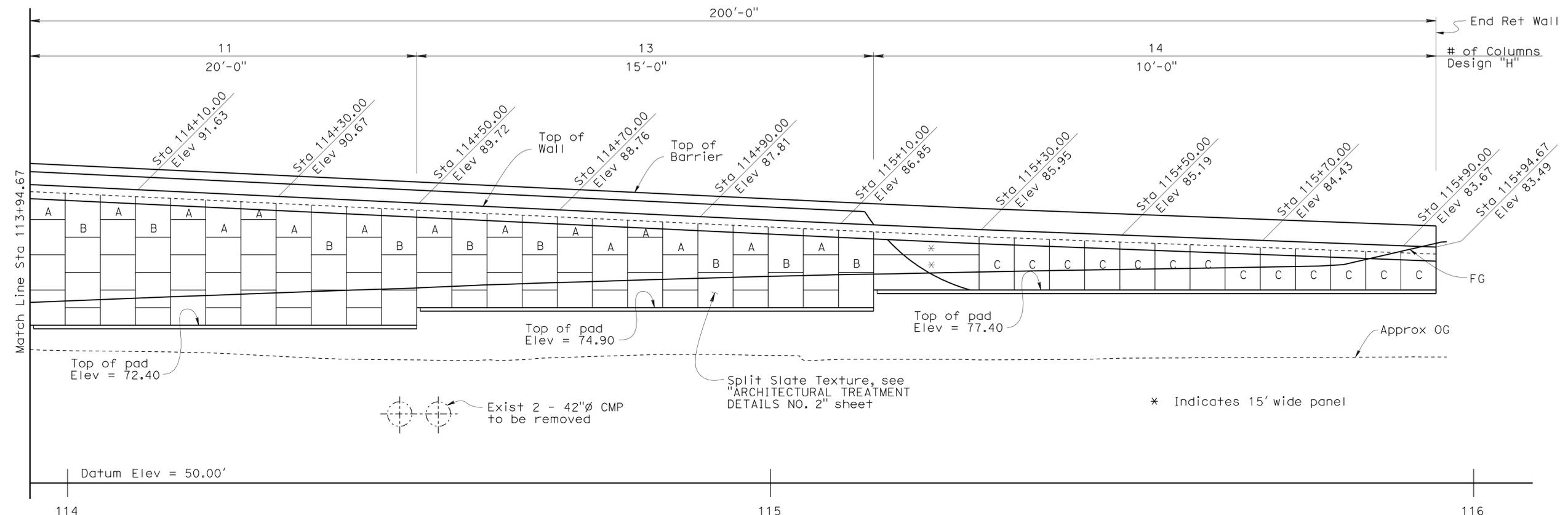
BRIDGE NO.	53E0153
POST MILE	1.68

RETAINING WALL NO. 3
STRUCTURE PLAN NO. 1

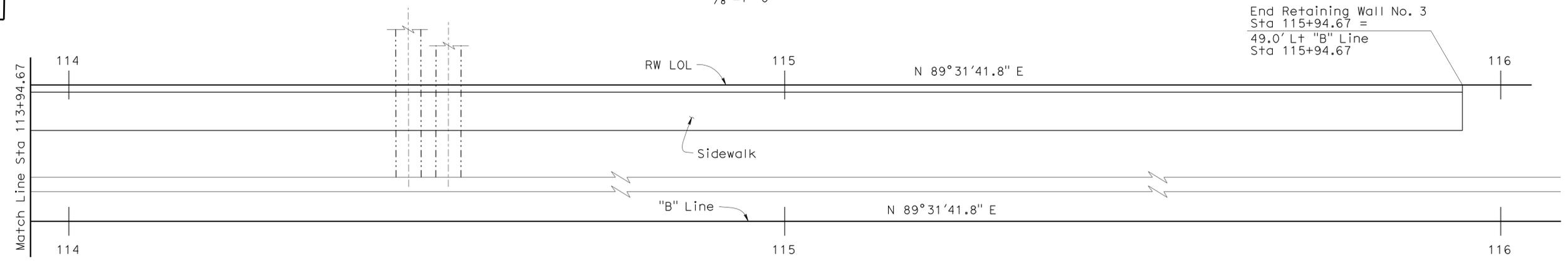
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6-27-11 PLANS APPROVAL DATE					
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 Indicates interval in years from time of construction to time of removal of inspection wire
 Indicates panel type designation. For details, see "RETAINING WALL DETAILS NO. 2 & NO. 3" sheets

PANEL LEGEND
NO SCALE



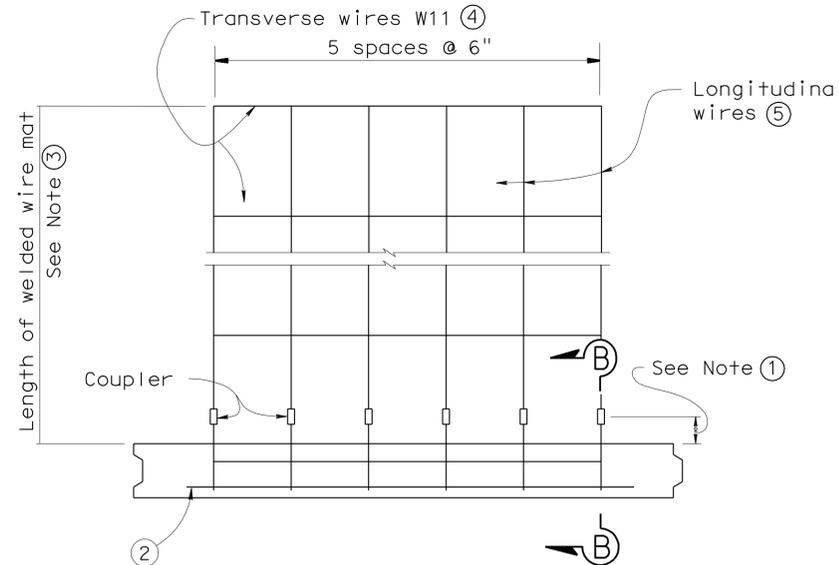
MIRRORED ELEVATION
1/8" = 1'-0"



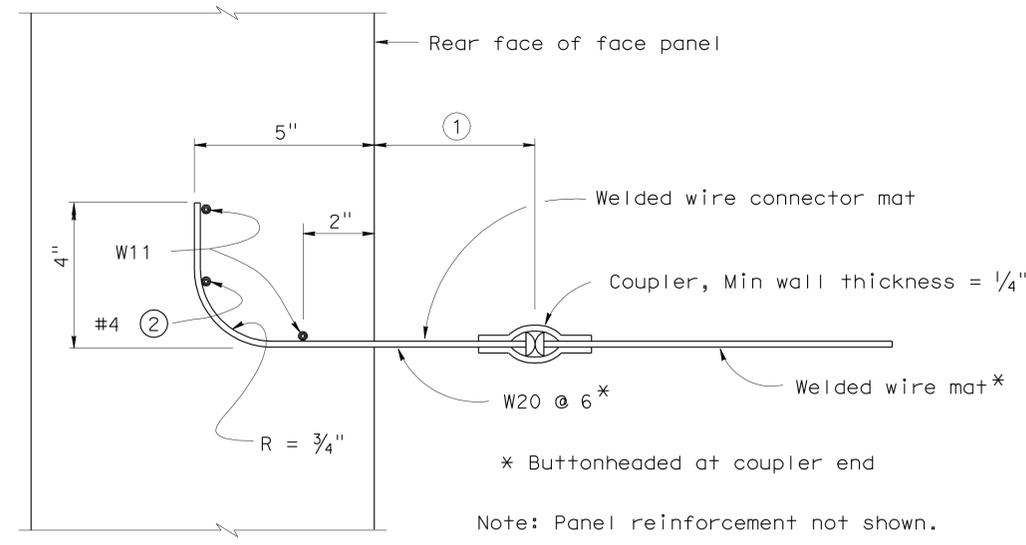
PLAN
1/8" = 1'-0"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Mark Okimura	CHECKED Phu Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	53E0153	RETAINING WALL NO. 3 STRUCTURE PLAN NO. 2			
	DETAILS	BY Pauline Tong	CHECKED Phu Nguyen			POST MILE	1.68				
	QUANTITIES	BY Mark Okimura	CHECKED Phu Nguyen			CU 07227 EA 215911	REVISION DATES		<table border="1"> <tr> <td>1-11-10</td> <td>1-18-10</td> <td>3-1-10</td> <td>3-11-10</td> <td>4-30-10</td> <td>5-26-10</td> </tr> </table>	1-11-10	1-18-10
1-11-10	1-18-10	3-1-10	3-11-10	4-30-10	5-26-10						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 3 OF 12					

USERNAME => s124496 DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:06



PLAN OF PANEL WITH WELDED WIRE MAT
No scale



SECTION B-B
No scale

GENERAL NOTES (MSE WALLS)

Live loading: Surcharge = 240 lb/ft²

Soil parameters:
 Internal design $\phi = 34^\circ$, $\gamma = 120$ lb/ft³
 External design ϕ (Backfill) = 34°, $\gamma = 120$ lb/ft³
 ϕ (Foundation) = 30°

Precast concrete panels:
 $f'c = 4,000$ psi (Concrete compressive strength at 28 days)
 $fy = 60,000$ psi (Yield strength of reinforcement)

Soil reinforcement:
 Welded wire mats: $fy = 65,000$ psi (Yield strength)
 Coupler: $fy = 36,000$ psi (Yield strength)
 Corrosion rate = 1.1 mils/year

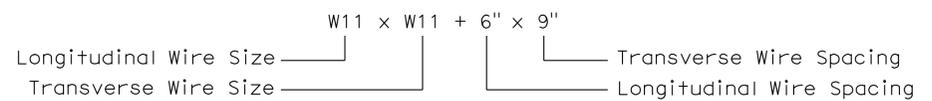
Reinforced concrete:
 $f'c = 3,600$ psi, except as noted
 (Concrete compressive strength at 28 days)
 $fy = 60,000$ psi (Yield strength of reinforcement)

MSE = Mechanically stabilized embankment

Notes:

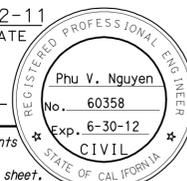
- Distance as required to permit coupler to be swaged.
- Place #4 bar, 3' - 2" long, centered on connector mat, but not welded to it.
- Length equals "Base width" of wall, except it shall not be less than 16' for the top 2 levels of mats at the top of the wall.
- All Transverse Wires size W11 at various spacings as shown in 'WELDED WIRE MAT DENSITY TABLE'.
- All Longitudinal Wires at 6" spacing, of various sizes, as shown in 'WELDED WIRE MAT DENSITY TABLE'.
- Wire mat for 15 feet wide panel shall be 3 wire mats per Design Height "H" shown.

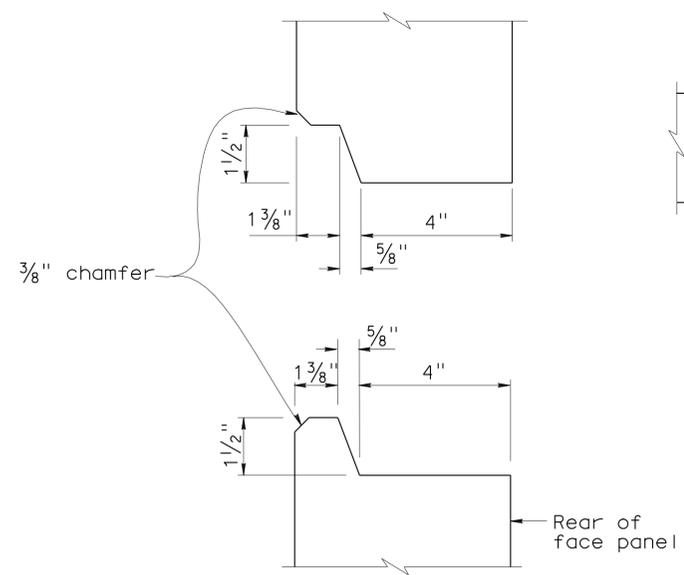
LEGEND:



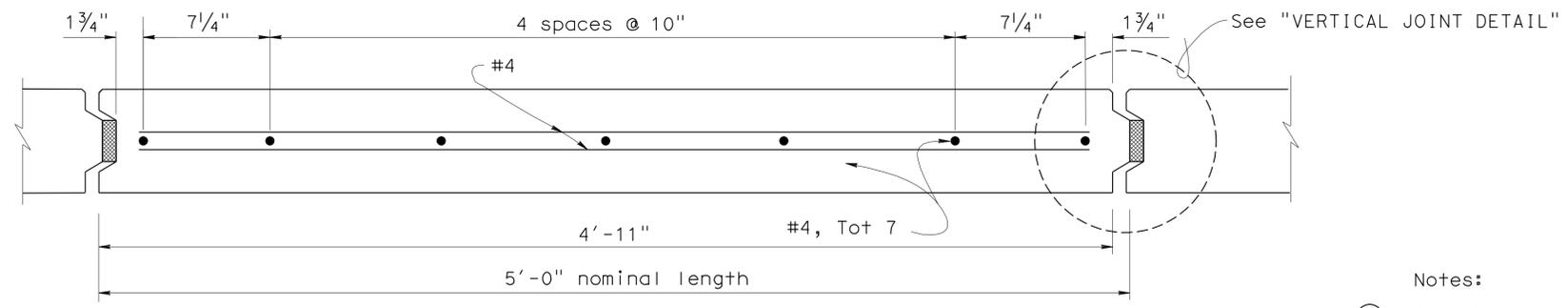
WELDED WIRE MAT DENSITY TABLE

Design Height, "H"	10'-0"	15'-0"	20'-0"	25'-0"	27'-6"	30'-0"	32'-6"
Base Width	8	11	14	18	19	21	23
Top Levels of Mesh	2 @ W11 x W11 + 6" x 9"	2 @ W11 x W11 + 6" x 9"	2 @ W11 x W11 + 6" x 9"	5 @ W11 x W11 + 6" x 18"	5 @ W11 x W11 + 6" x 18"	10 @ W11 x W11 + 6" x 24"	10 @ W11 x W11 + 6" x 24"
Over	@ W11 x W11 + 6" x 12"	2 @ W11 x W11 + 6" x 12"	3 @ W11 x W11 + 6" x 18"	@ W11 x W11 + 6" x 24"	5 @ W11 x W11 + 6" x 24"	@ W15 x W11 + 6" x 30"	@ W15 x W11 + 6" x 30"
	-	1 @ W11 x W11 + 6" x 18"	@ W11 x W11 + 6" x 24"	-	@ W11 x W11 + 6" x 30"	-	-
	-	@ W11 x W11 + 6" x 24"	-	-	-	-	-

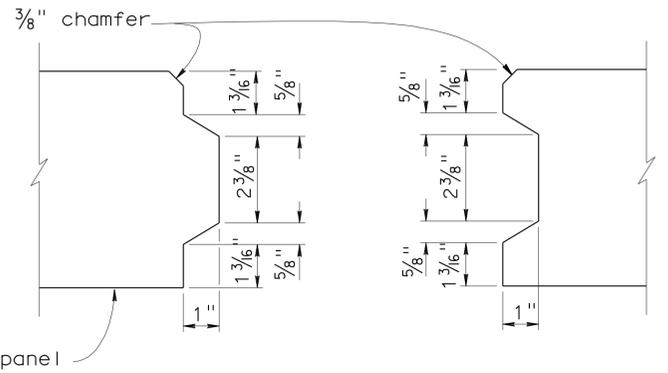
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3-2-11 REGISTERED CIVIL ENGINEER DATE					
6-27-11 PLANS APPROVAL DATE					
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HORIZONTAL JOINT DETAIL
No Scale

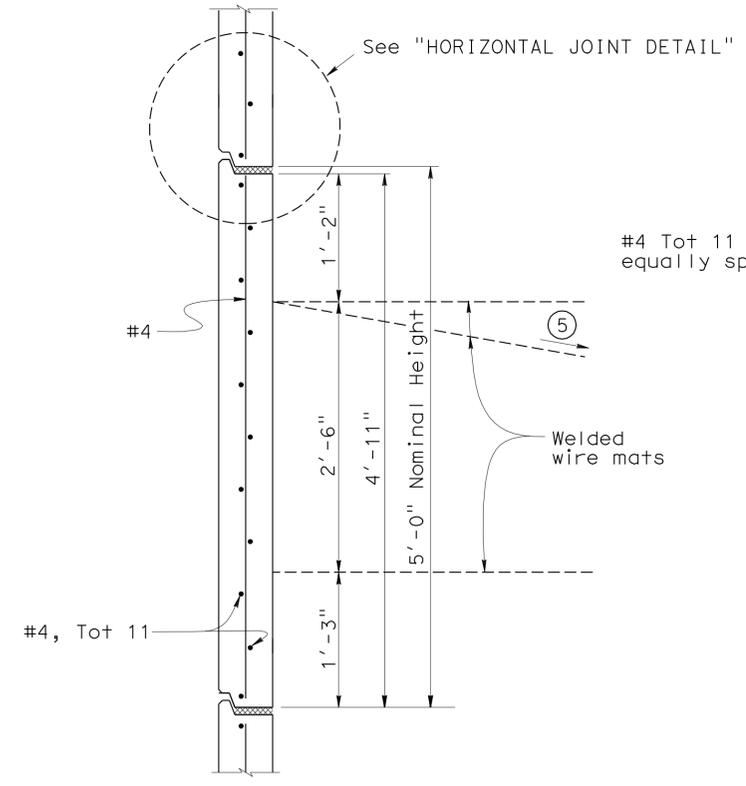


PLAN - FACE PANEL
No Scale

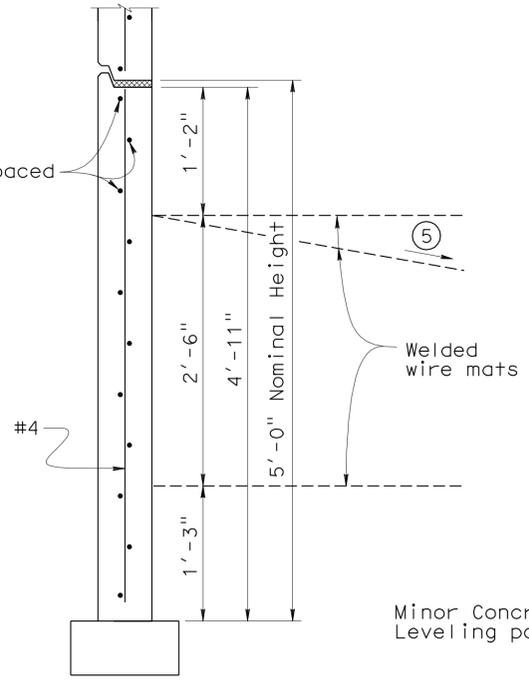


VERTICAL JOINT DETAIL
No Scale

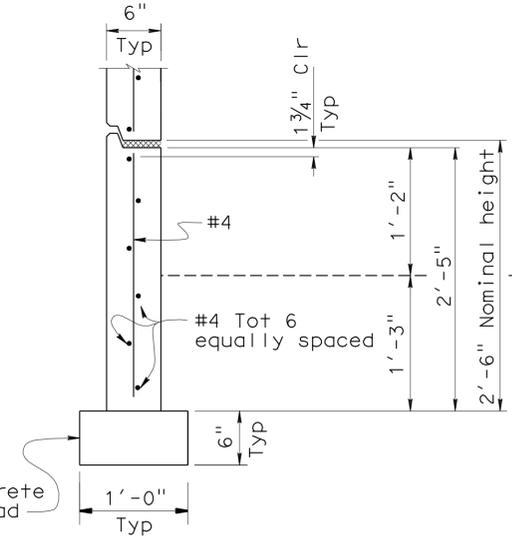
- Notes:
- Architectural treatment not shown.
 - Place reinforced elastomeric bearing pads in all of the panel joints between the panels. Place one in each vertical joint where the horizontal joint intersects it. Place two per panel in each horizontal joint.
3/4" x 2 3/8" x 6" for vertical joints
3/4" x 4" x 6" for horizontal joints.
 - Bond a strip of filter fabric, 1' - 0" wide, over the full length of all panel joints.
 - Top welded wire mat shall be sloped as required to clear roadway section.
 - 2nd to top welded wire mat shall be sloped down as required to maintain 6" min separation from other mats.
 - Dimension = 6" when bottom welded wire mat is omitted.



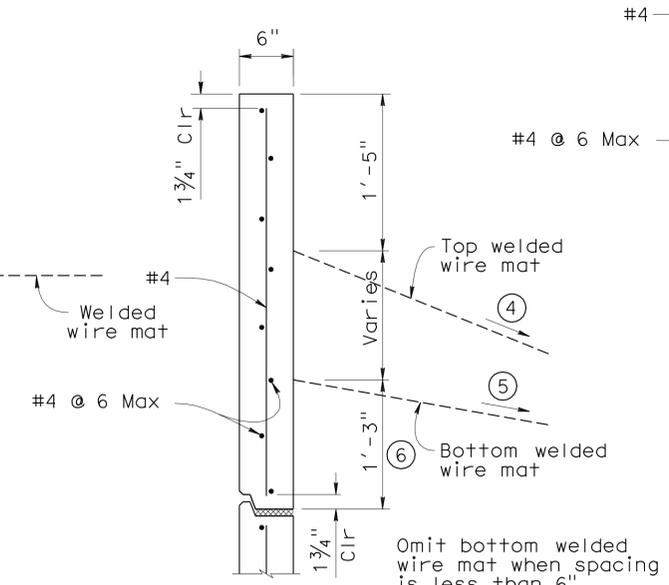
INTERMEDIATE PANEL
No Scale



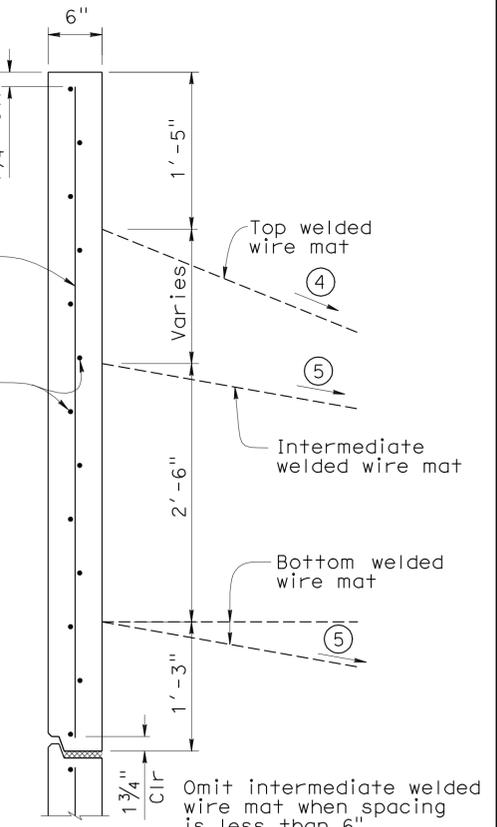
BOTTOM PANEL
No Scale



BOTTOM HALF PANEL
No Scale



TYPE "A" PANEL
No Scale

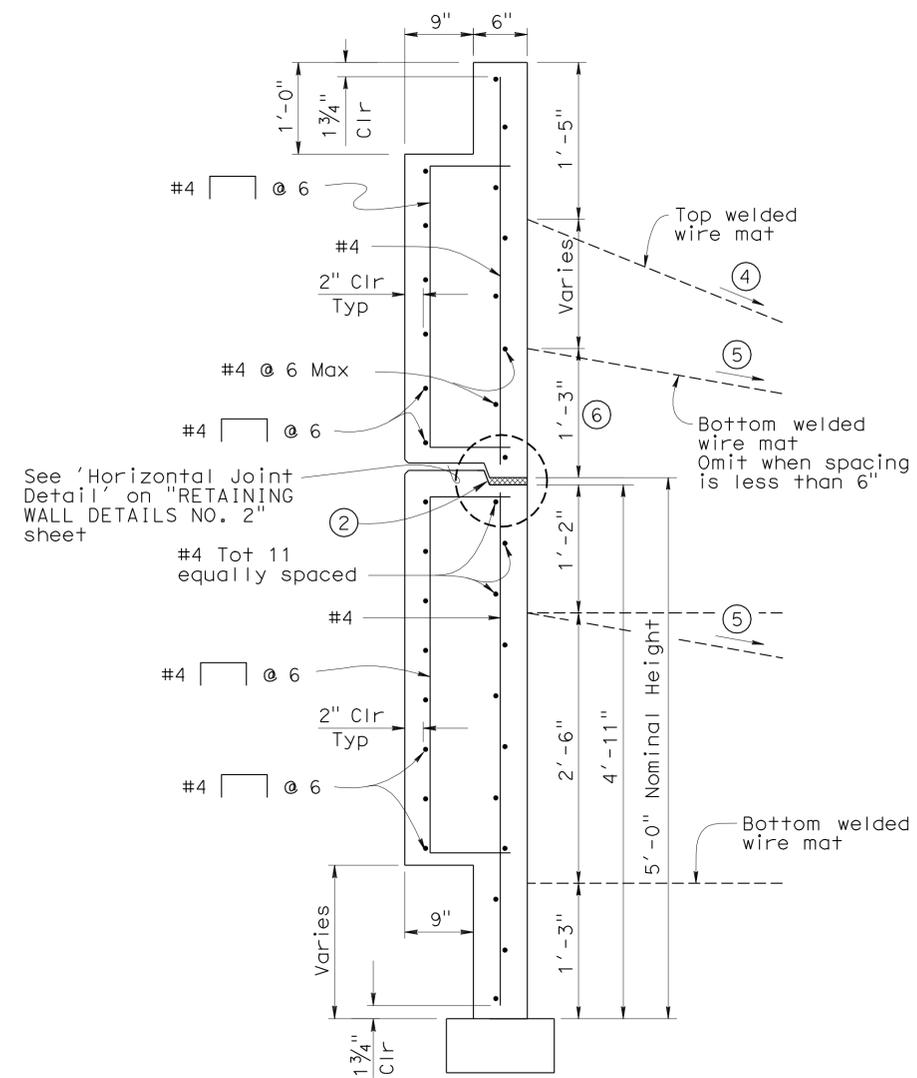


TYPE "B" PANEL
No Scale

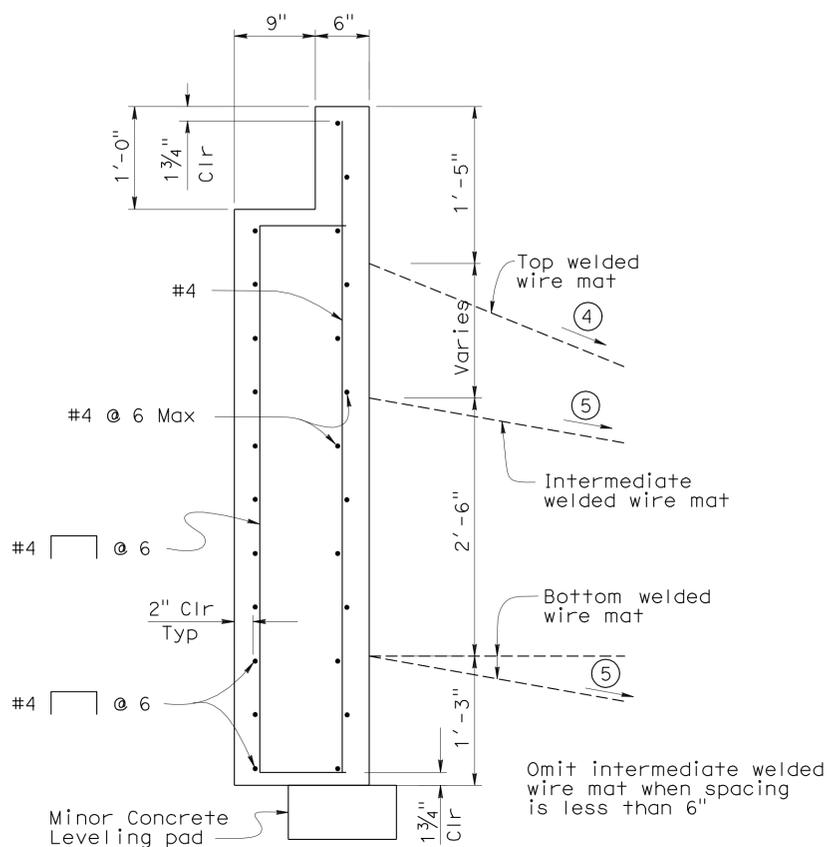
DESIGN BY Mark Okimura CHECKED Phu Nguyen DETAILS BY David Elliot CHECKED Phu Nguyen QUANTITIES BY Mark Okimura CHECKED Phu Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0153 POST MILE 1.68	RETAINING WALL NO. 3 RETAINING WALL DETAILS NO. 2	REVISION DATES 1-11-10 1-18-10 4-16-10 4-28-10 5-26-10	SHEET 5 OF 12	
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	STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)						

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	534	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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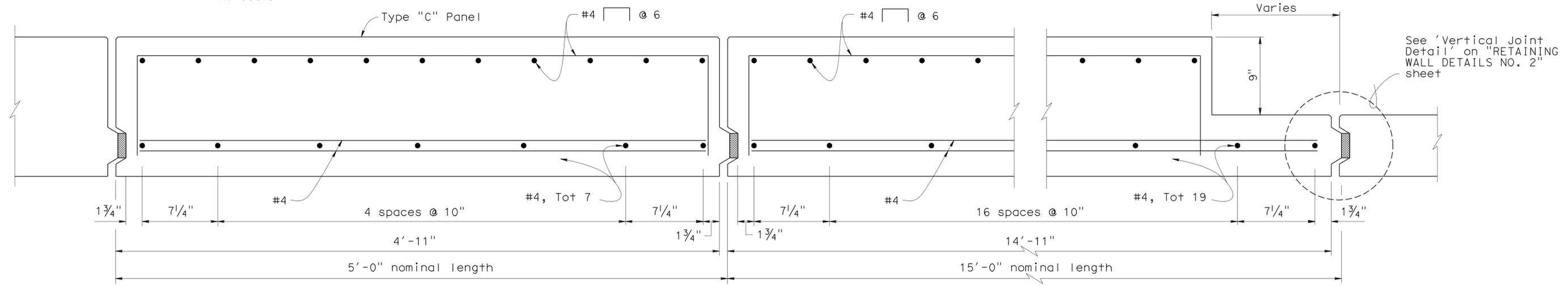
15' WIDE PANEL
No Scale



TYPE "C" PANEL
No Scale

Notes:

- ① Architectural treatment not shown.
- ② Place reinforced elastomeric bearing pads in all of the panel joints between the panels. Place one in each vertical joint where the horizontal joint intersects it. Place four per 15' wide panel in each horizontal joint. $\frac{3}{4}$ " x $2\frac{3}{8}$ " x 6" for vertical joints. $\frac{3}{4}$ " x 4" x 6" for horizontal joints.
- ③ Bond a strip of filter fabric, 1'-0" wide, over the full length of all panel joints.
- ④ Top welded wire mat shall be sloped as required to clear roadway section.
- ⑤ 2nd to top welded wire mat shall be sloped down as required to maintain 6" min separation from other mats.
- ⑥ Dimension = 6" minimum when bottom welded wire mat is omitted.



PLAN - TYPE "C" & 15' WIDE FACE PANEL
No Scale

DESIGN	BY Mark Okimura	CHECKED Phu Nguyen
DETAILS	BY David Elliott	CHECKED Phu Nguyen
QUANTITIES	BY Mark Okimura	CHECKED Phu Nguyen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	53E0153
POST MILE	1.68

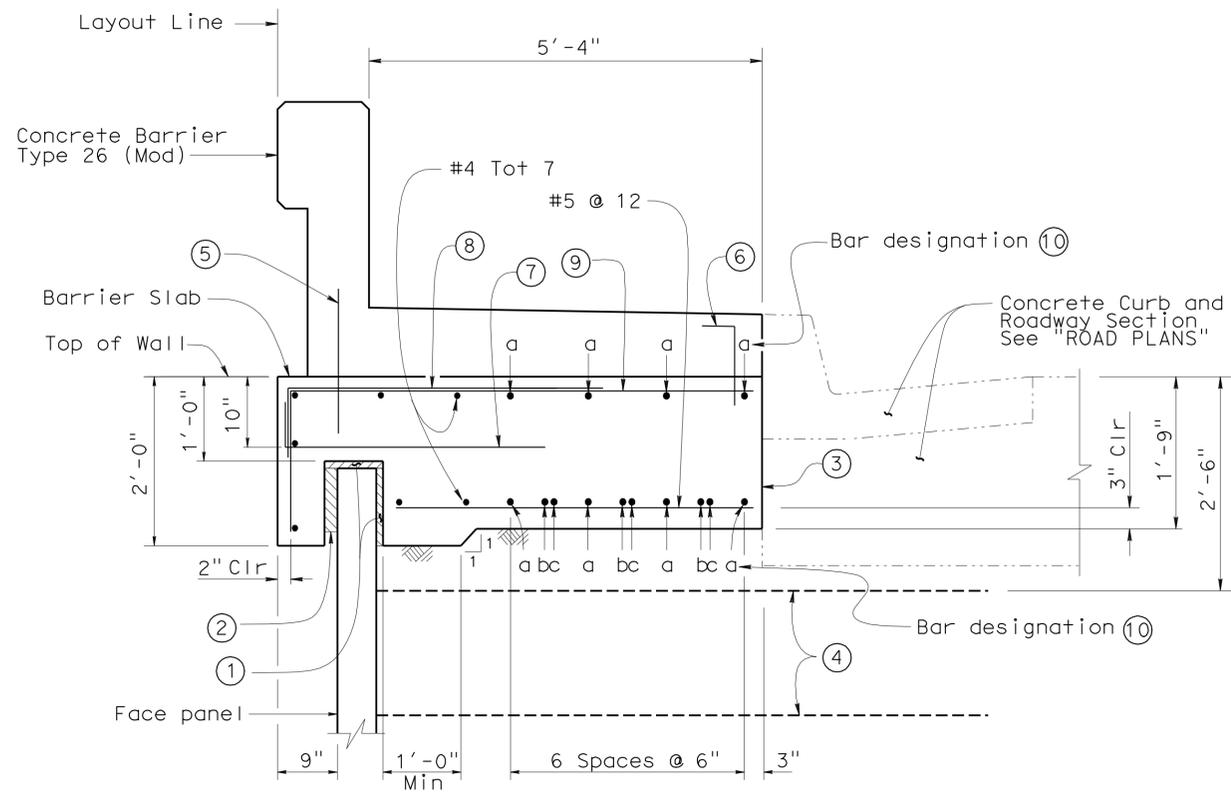
RETAINING WALL NO. 3
RETAINING WALL DETAILS NO. 3

USERNAME => s124496 DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	535	602

3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



SECTION AT TOP OF WALL WITH BARRIER SLAB AND CONCRETE BARRIER

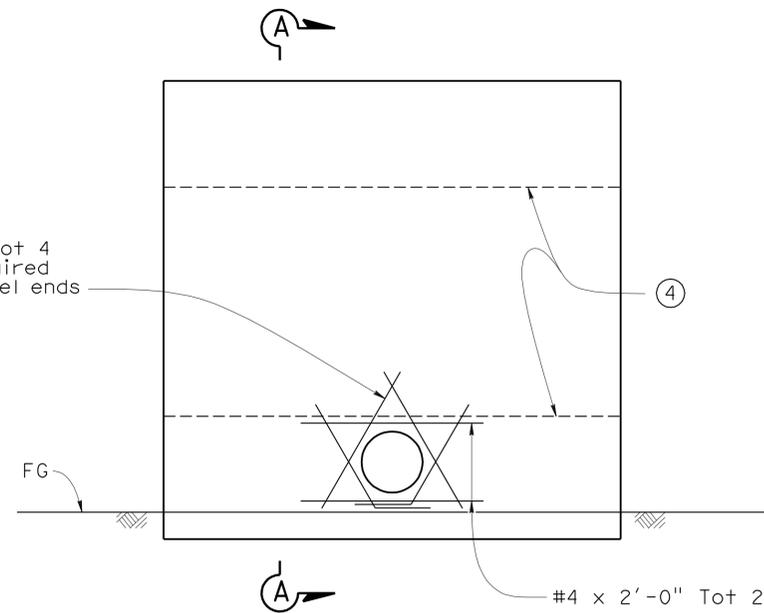
No Scale

LEGEND:

- ① 1" Expanded polystyrene
- ② 2" Expanded polystyrene. Recess expanded polystyrene 2" into barrier slab
- ③ Contact joint
- ④ Welded Wire Mat Soil reinforcement.
- ⑤ #4 x 1'-6" @ 1'-6" (To be in place prior to barrier slab concrete)
- ⑥ #4 $\left[\begin{array}{l} 1'-0" \\ 6/4" \end{array} \right]$ @ 1'-6" (To be in place prior to barrier slab concrete)
- ⑦ #5 $\left[\begin{array}{l} 1'-0" \\ 3'-4" \end{array} \right]$ @ 1'-0"
- ⑧ #5 $\left[\begin{array}{l} 4'-7" \\ 1'-0" \end{array} \right]$ @ 1'-0" bundled with 9 bars
- ⑨ #5 $\left[\begin{array}{l} 1'-0" \\ \end{array} \right]$ @ 1'-0"
- ⑩ "a" bar = #6 continuous
 "b" bar = #6 X 59'-0"
 "c" bar = #6 X 49'-2"
 Place "b" and "c" bars at beginning and ending ends of barrier slab

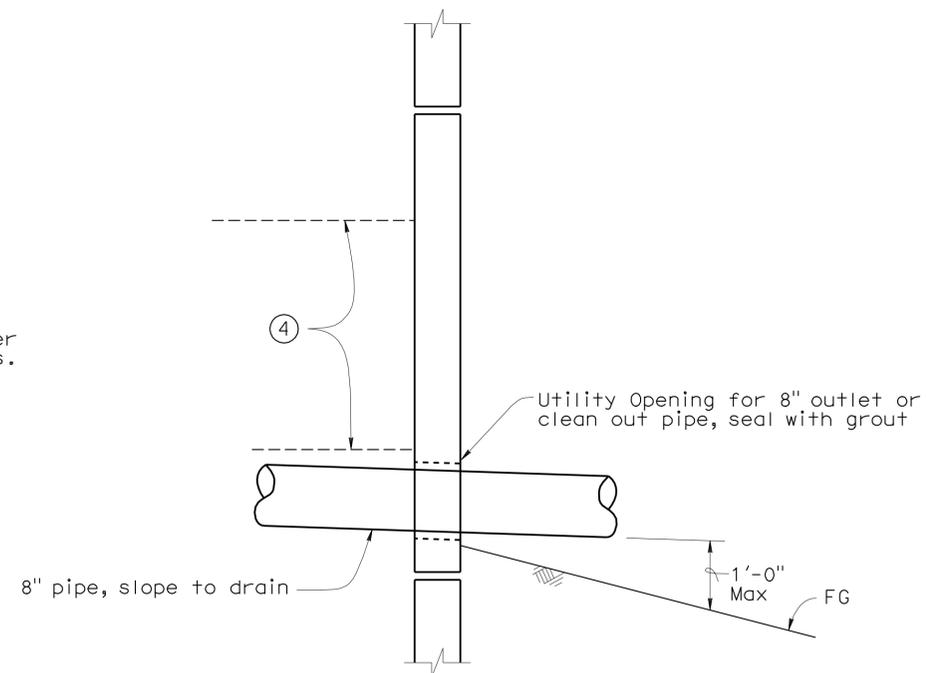
NOTES:

- 1. Clearance to reinforcing steel in concrete barrier to be 1".
- 2. Not all barrier reinforcement shown.
- 3. No expansion joints in concrete barrier or barrier slab within MSE wall limits.



UTILITY OPENING DETAIL

No Scale



SECTION A-A

No Scale

Note: Contractor to determine exact location to provide clearance to FG and welded wire mats

DESIGN	BY Mark Okimura	CHECKED Phu Nguyen
DETAILS	BY David Elliott	CHECKED Phu Nguyen
QUANTITIES	BY Mark Okimura	CHECKED Phu Nguyen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

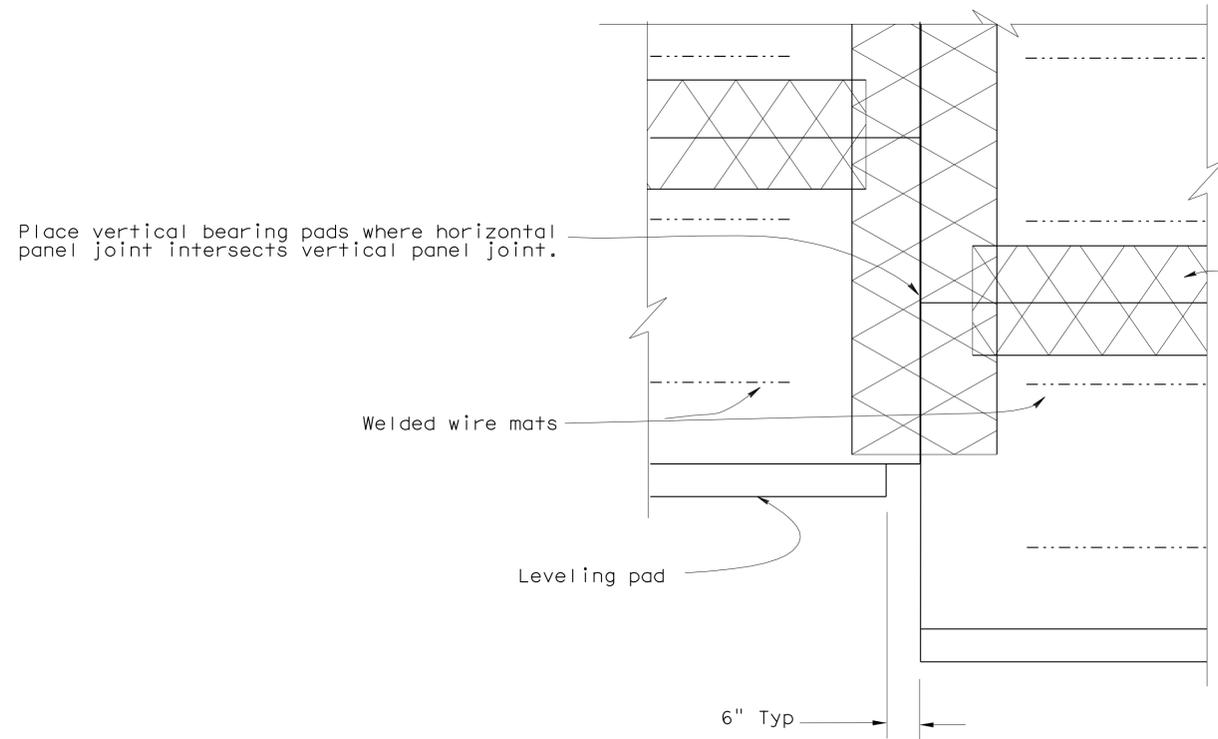
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

BRIDGE NO.	53E0153
POST MILE	1.68

RETAINING WALL NO. 3
RETAINING WALL DETAILS NO. 4

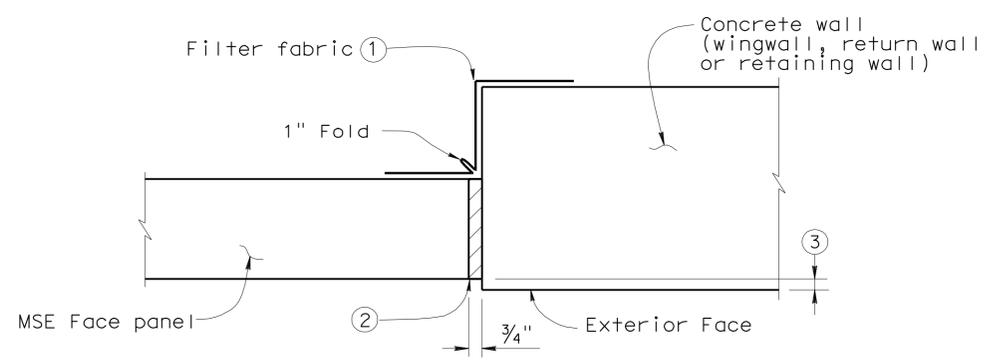
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07	LA	5	1.2/2.1	536	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
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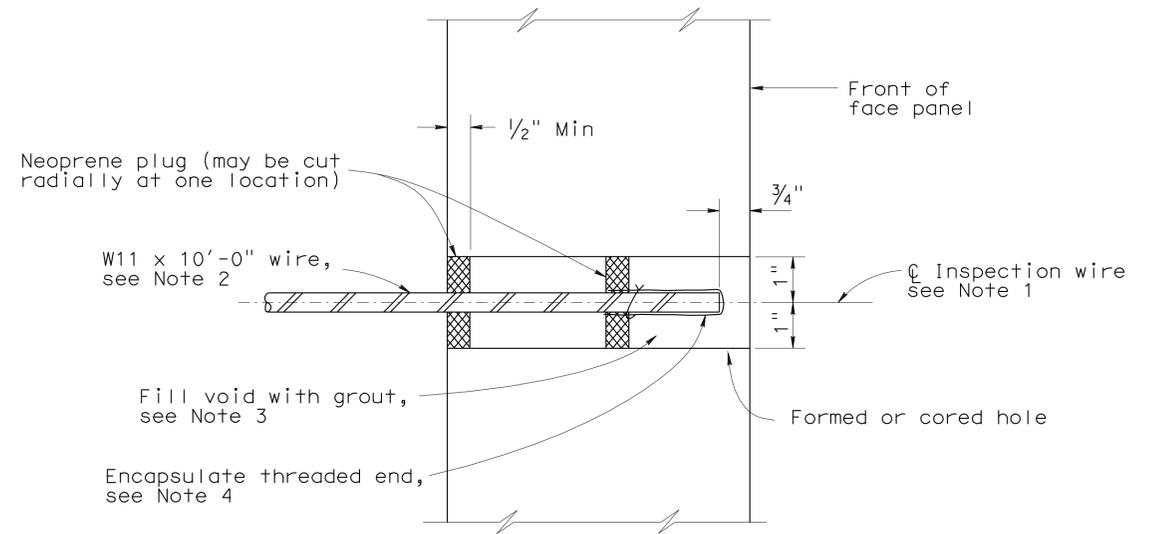


REAR ELEVATION
No Scale

1'-0" wide strip of filter fabric bonded to adjacent panels full length of both vertical and horizontal panel joints.



MSE FACE PANEL-TO-CONCRETE WALL JOINT DETAIL
No Scale



SECTION THRU INSPECTION WIRE
No Scale

LEGEND:

- ① Bond a strip of filter fabric, 1'-6" wide, to back of MSE panels and the adjacent concrete wall for entire length of vertical joint.
- ② Bond expansion joint material to the concrete wall.
- ③ Offset between face of MSE face panel and face of the concrete wall as dictated by location of layout lines shown elsewhere in Project Plans.

NOTES:

- 1. Center inspection wire in face panel.
 - 2. Fabricate inspection wires from W11 wire representative of the welded wire mats, with 3/8" dia - 16 UNC threads for at least 1/2" of one end.
 - 3. Place inspection wire horizontal and perpendicular to the wall panel prior to backfilling. After backfill placement to a level at least 2'-0" above the inspection wire, dry pack opening with 1000 to 1500 psi mortar. Trowel mortar smooth and flush with face of panel.
 - 4. Encapsulate threaded end with corrosion inhibiting mastic, and secure round vinyl cover with nylon tie.
- UNC = Unified coarse threads

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Mark Okimura	CHECKED Phu Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 3	
	DETAILS	BY David Elliott	CHECKED Phu Nguyen			53E0153	RETAINING WALL DETAILS NO. 5	
QUANTITIES	BY Mark Okimura	CHECKED Phu Nguyen	1.68					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 8 OF 12

USERNAME => s124496 DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:06

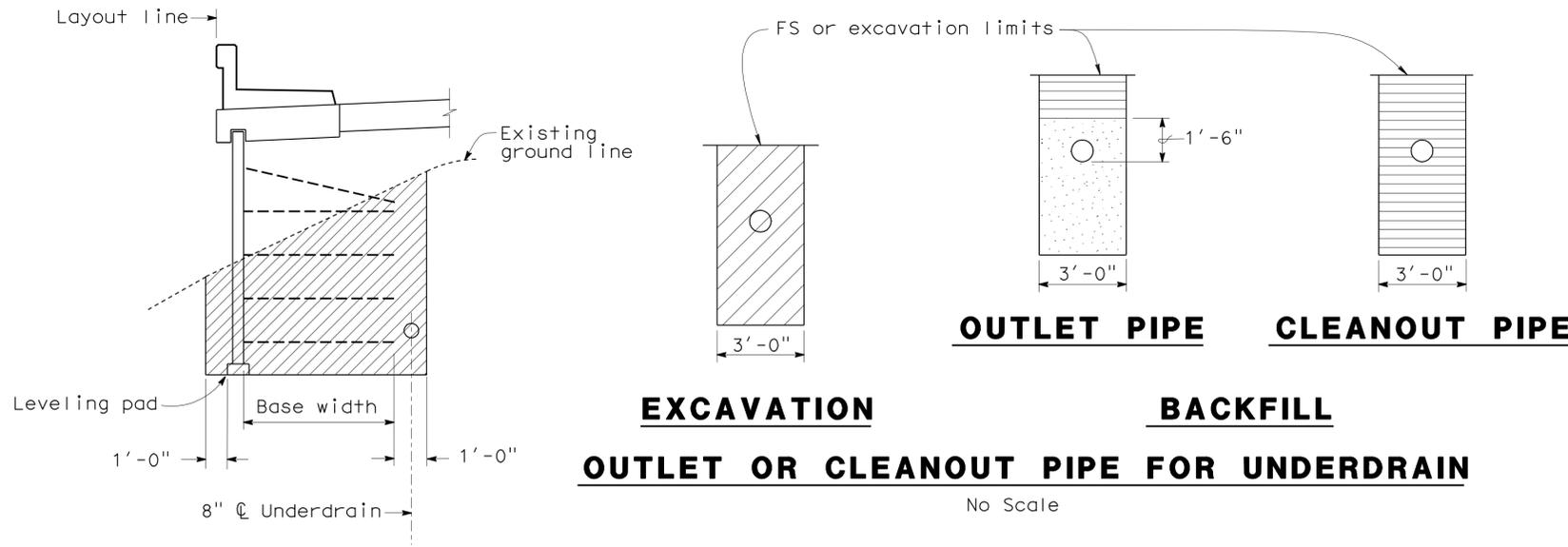
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	537	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

NOTES:

- Limits to FS except to GP when in roadway section.
- Locate 8" perforated underdrain as shown.
- Maximum spacing of outlet pipes is 200 ft.
- At sags in profile of underdrain, install outlet pipe for each direction of flow.



LIMITS OF EXCAVATION

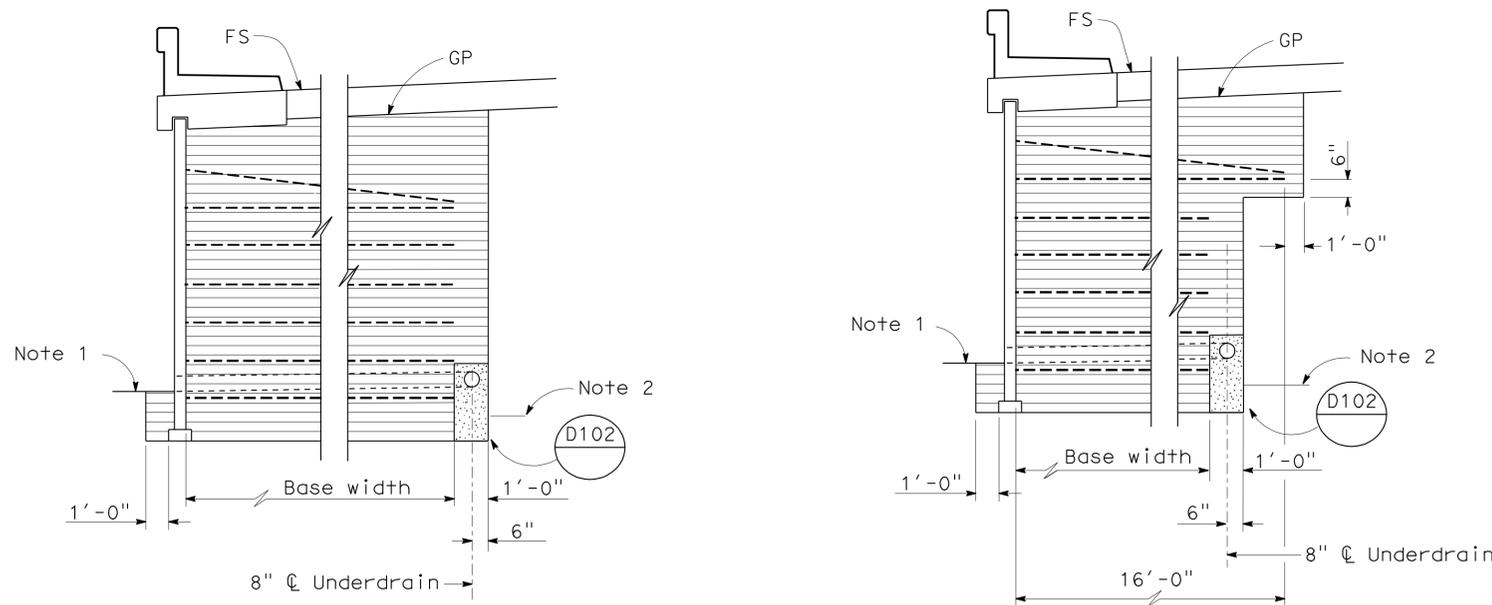
No Scale

ABBREVIATIONS

- OG Original ground
- FS Planned finished surface
- GP Planned grading plane

LEGEND

- Limits of structure excavation
- Limits of structure backfill
- Limits of permeable material



ROADWAY SECTION WITH BASE WIDTH 16' OR GREATER

ROADWAY SECTION WITH BASE WIDTH LESS THAN 16'

LIMITS OF BACKFILL

No Scale

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Mark Okimura	CHECKED Phu Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 3
	DETAILS	BY David Elliott	CHECKED Phu Nguyen			53E0153	RETAINING WALL DETAILS NO. 6
	QUANTITIES	BY Mark Okimura	CHECKED Phu Nguyen			POST MILE 1.68	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
						REVISION DATES	SHEET 9 OF 12

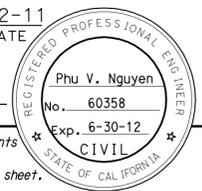
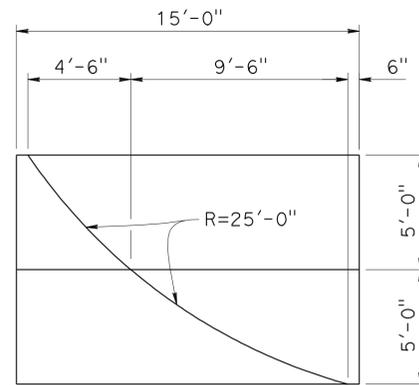
USERNAME => s124496 DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	538	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

6-27-11
 PLANS APPROVAL DATE

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Note: Detail shown is geometric outline for the 25' radius arc

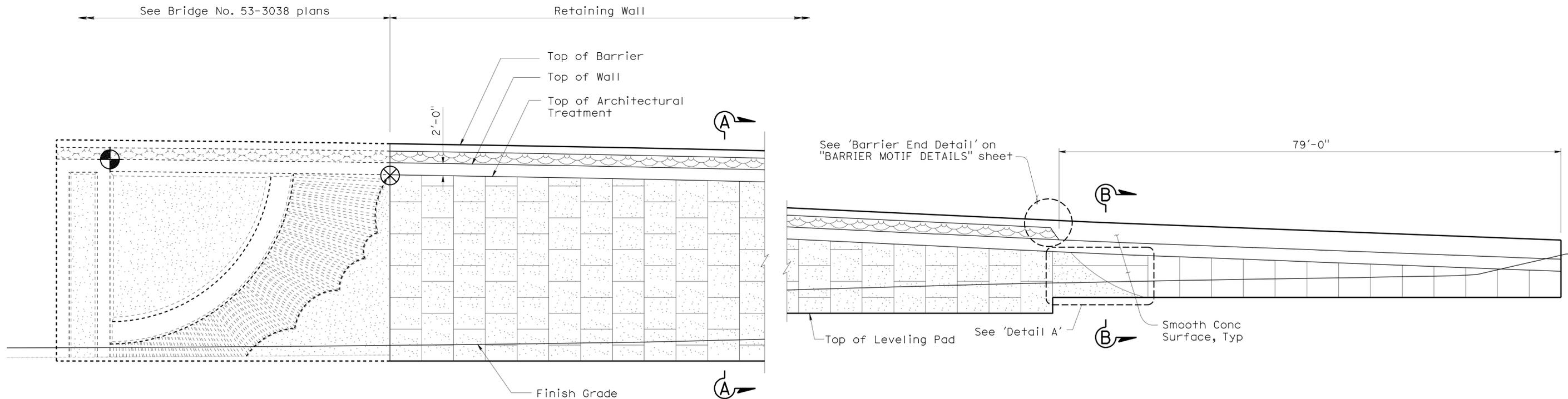
DETAIL A
No Scale

Notes:

1. All reference to surface dimensions of wall details are from datum 0 = face of MSE wall, typical
2. For Section 'A-A' and 'B-B', see "ARCHITECTURAL TREATMENT DETAILS NO. 2" sheet

Legend:

-  Split Slate Texture Concrete Surface
-  Smooth Concrete Surface



PARTIAL MIRRORED ELEVATION

1/8" = 1'

DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia
DETAILS	BY Pauline Tong	CHECKED Javier Chavez
QUANTITIES	BY Mark Okimura	CHECKED Phu Nguyen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	53E0153
POST MILE	1.68

RETAINING WALL NO. 3
ARCHITECTURAL TREATMENT DETAILS NO. 1

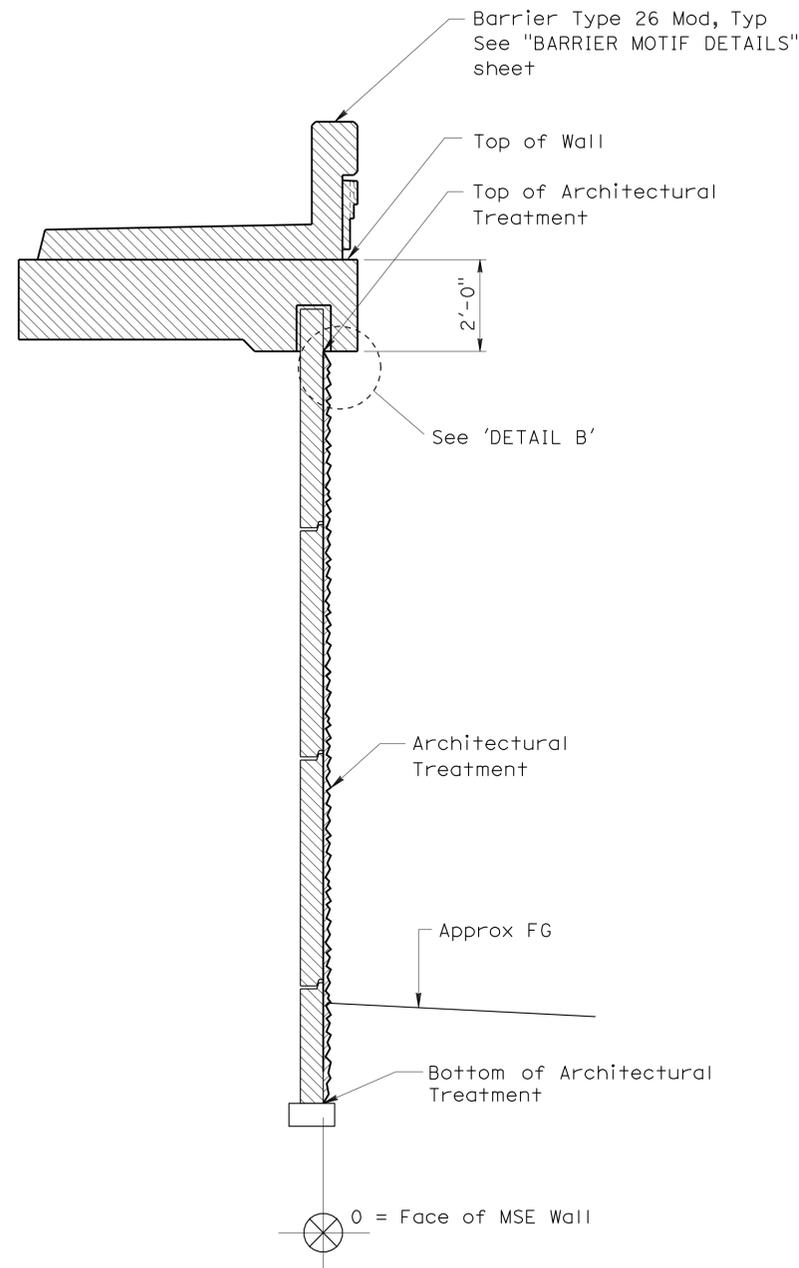
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	539	602

Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

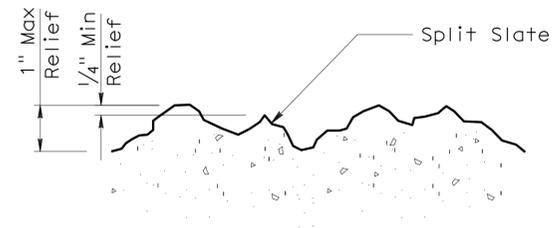
6-27-11
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

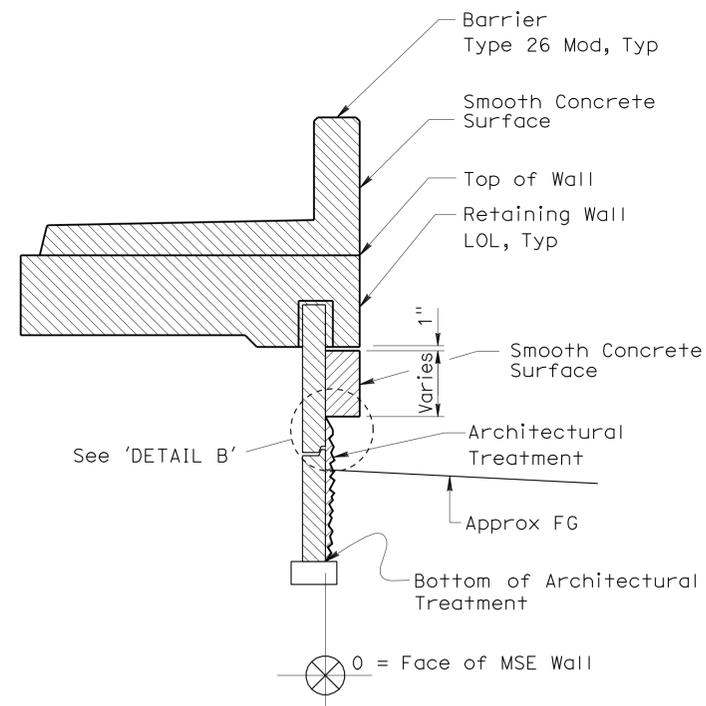


SECTION A-A
No Scale

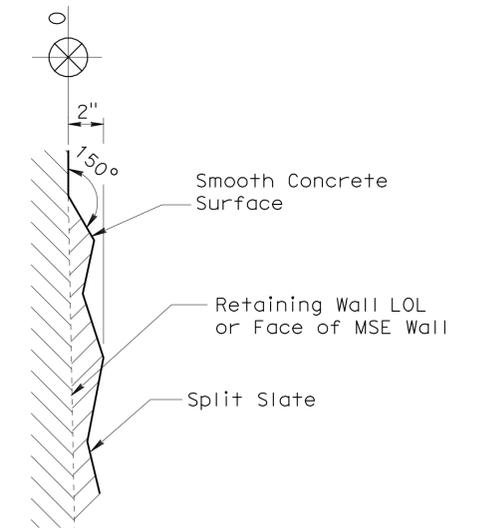


SPLIT SLATE TEXTURE
No Scale

Note: All reference to surface dimensions of wall details are from datum 0 = face of MSE wall, Typical



SECTION B-B
No Scale



DETAIL B
No Scale

DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia
DETAILS	BY Pauline Tong	CHECKED Javier Chavez
QUANTITIES	BY Mark Okiruma	CHECKED Phu Nguyen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	53E0153
POST MILE	1.68

RETAINING WALL NO. 3
ARCHITECTURAL TREATMENT DETAILS NO. 2



REVISION DATES	SHEET	OF
3-28-10 5-26-10	11	12

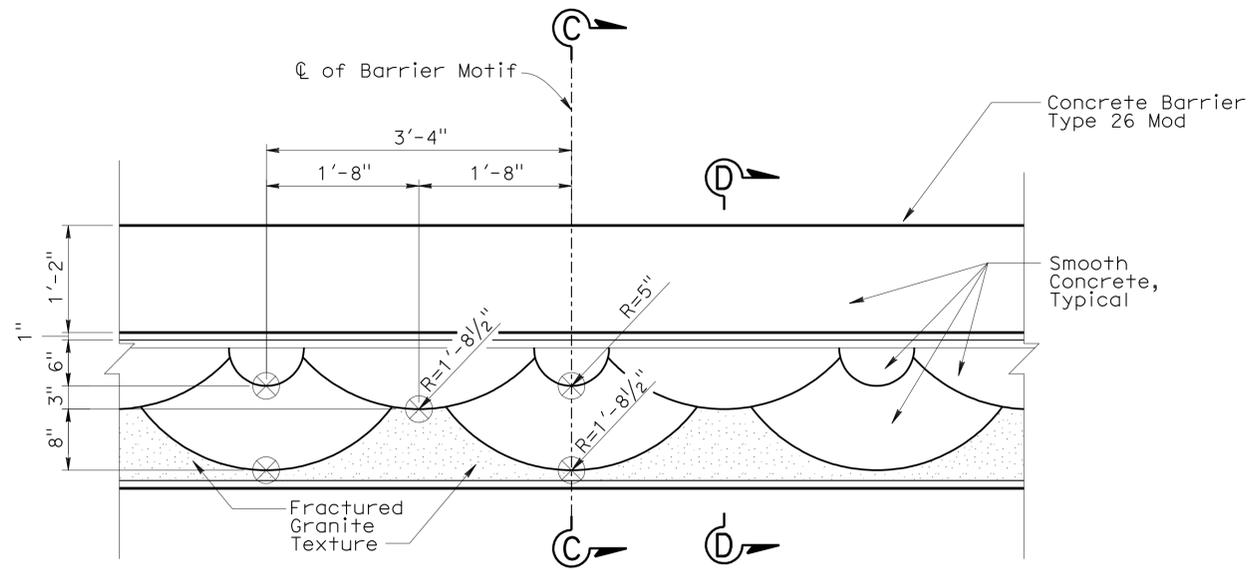
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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Phu Vuong Nguyen 3-2-11
REGISTERED CIVIL ENGINEER DATE

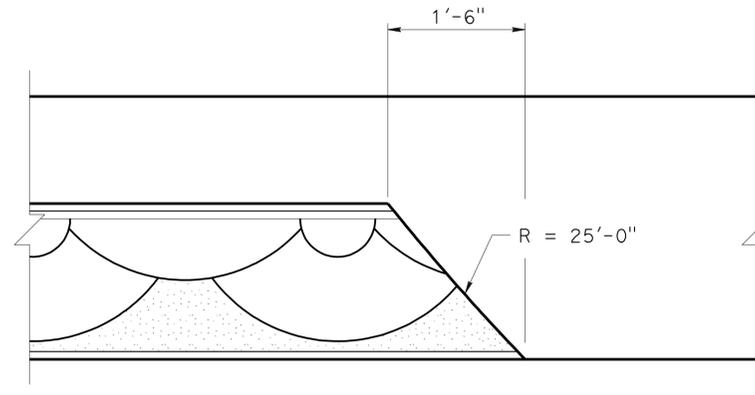
6-27-11
PLANS APPROVAL DATE

Phu V. Nguyen
No. 60358
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

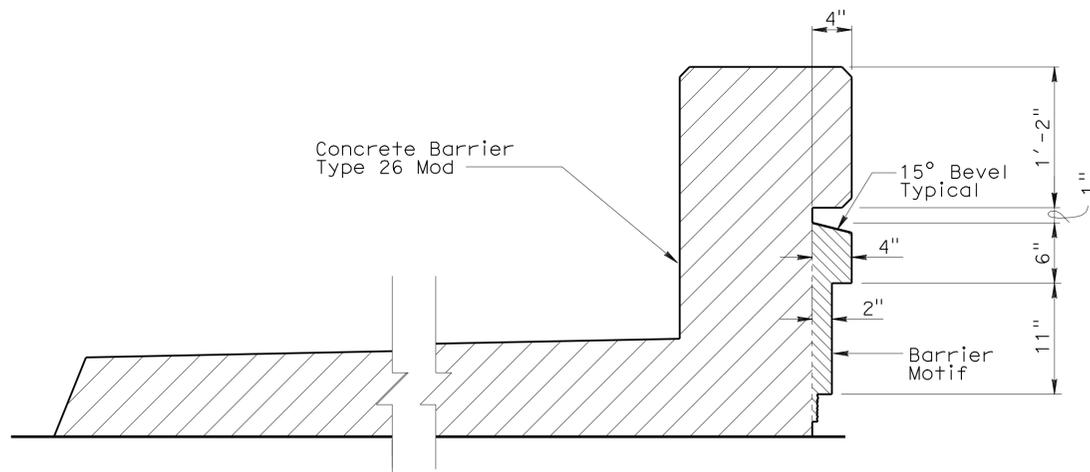
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



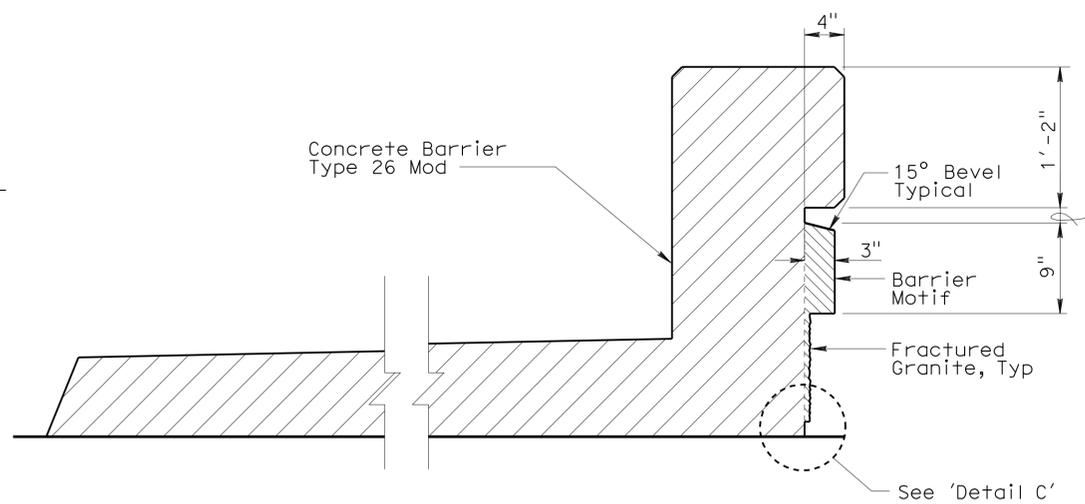
ELEVATION - BARRIER MOTIF
No Scale



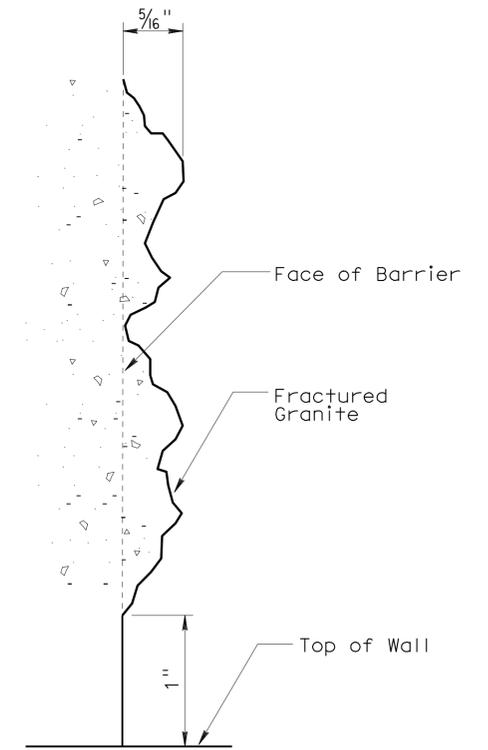
BARRIER END DETAIL
No Scale



SECTION C-C
No Scale



SECTION D-D
No Scale



DETAIL C
No Scale

DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia
DETAILS	BY Pauline Tong	CHECKED Javier Chavez
QUANTITIES	BY Mark Okimura	CHECKED Phu Nguyen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

BRIDGE NO.	53E0153
POST MILE	1.68

RETAINING WALL NO. 3
BARRIER MOTIF DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	541	602

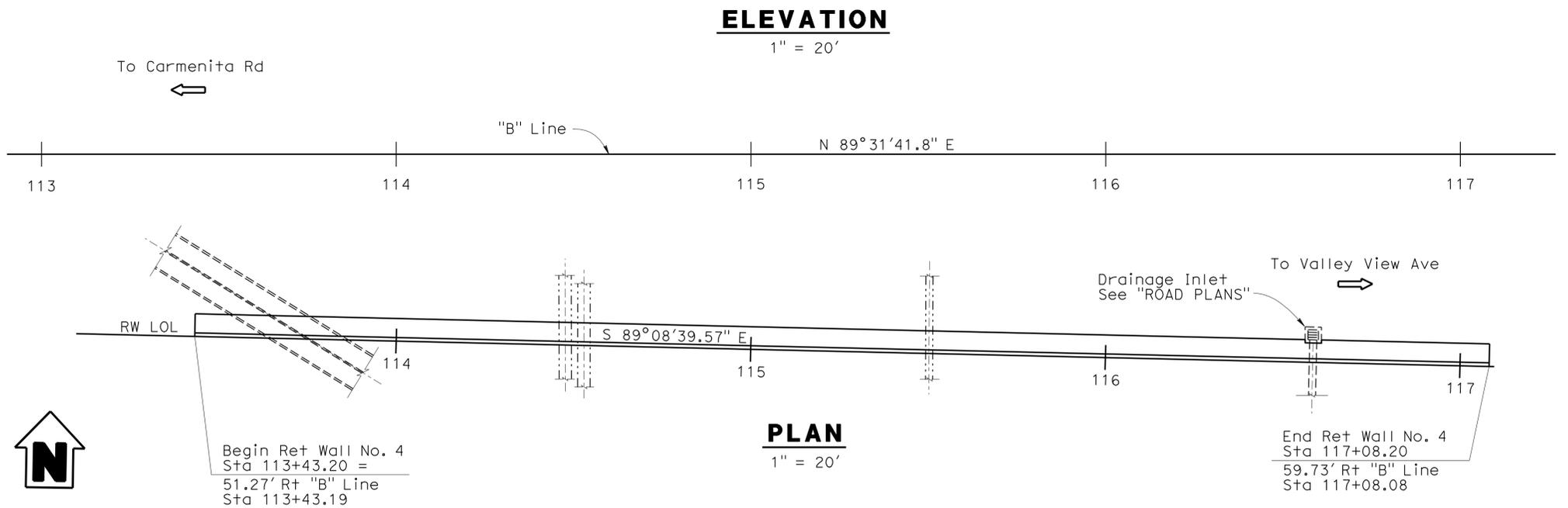
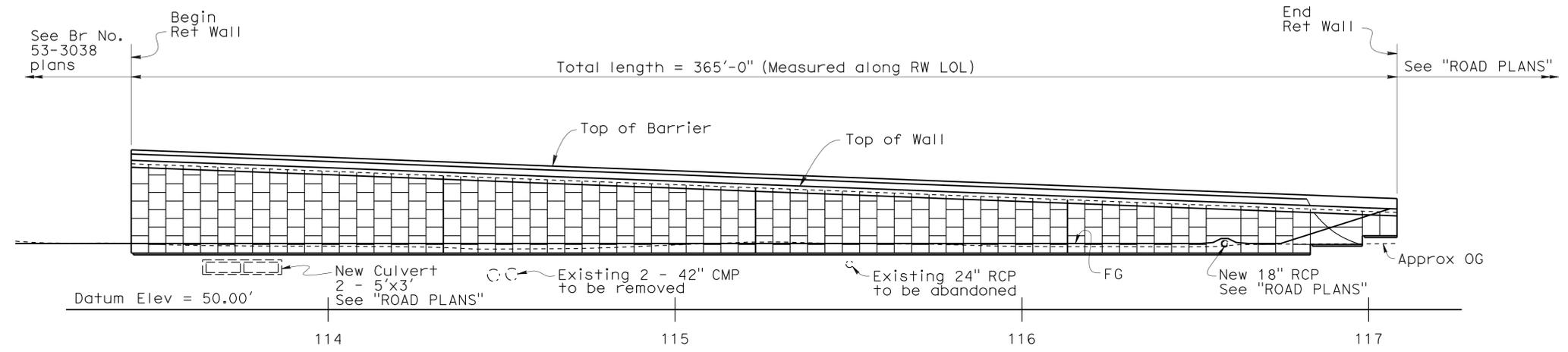
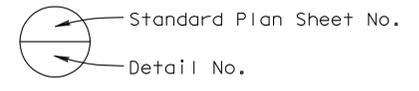
REGISTERED CIVIL ENGINEER *Phu V. Nguyen* DATE 3-2-11
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
 6-27-11
 PLANS APPROVAL DATE
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STANDARD PLANS
Dated May 2006

- A10A ACRONYMS AND ABBREVIATIONS (A-L)
- A10B ACRONYMS AND ABBREVIATIONS (M-Z)
- D102 UNDERDRAINS
- BO-3 BRIDGE DETAILS
- B11-54 CONCRETE BARRIER TYPE 26

INDEX TO PLANS

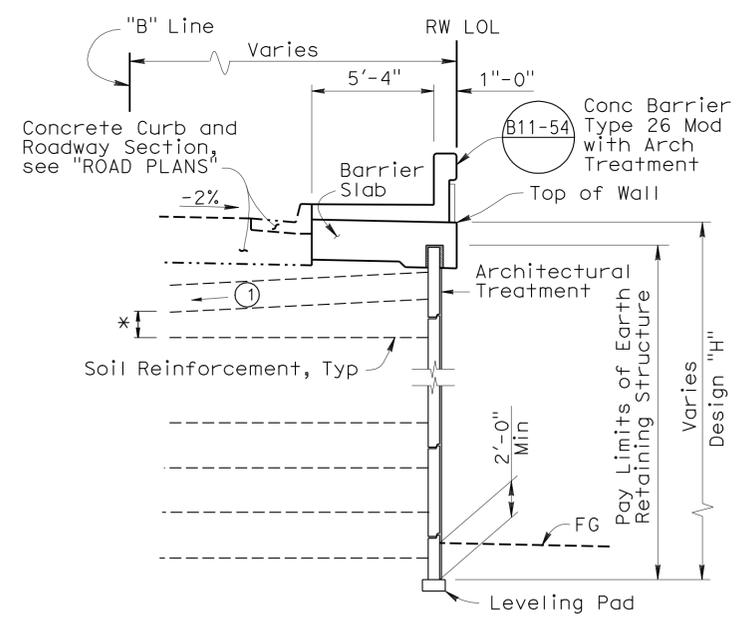
Sheet No.	Title	QUANTITIES
1	GENERAL PLAN	
2	STRUCTURE PLAN NO. 1	EARTH RETAINING STRUCTURE, LOCATION D 6,800 SQFT
3	STRUCTURE PLAN NO. 2	STRUCTURAL CONCRETE, BARRIER SLAB 174 CY
4	RETAINING WALL DETAILS NO. 1	ARCHITECTURAL SURFACE (BARRIER) 622 SQFT
5	RETAINING WALL DETAILS NO. 2	CONCRETE BARRIER (TYPE 26 MODIFIED) 365 LF
6	RETAINING WALL DETAILS NO. 3	
7	RETAINING WALL DETAILS NO. 4	
8	RETAINING WALL DETAILS NO. 5	
9	RETAINING WALL DETAILS NO. 6	
10	ARCHITECTURAL TREATMENT DETAILS NO. 1	
11	ARCHITECTURAL TREATMENT DETAILS NO. 2	
12	BARRIER MOTIF DETAILS	



Note:

① For slope see "RETAINING WALL DETAILS NO. 2 and NO. 3" sheets

* Maintain a minimum of 6" between soil reinforcements, Typ



Ramin Rashedi DESIGN ENGINEER	DESIGN	BY Phu Nguyen	CHECKED Mark Okimura	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	53E0154	RETAINING WALL NO. 4 GENERAL PLAN
	DETAILS	BY Pauline Tong	CHECKED Mark Okimura			POST MILE	1.68	
	QUANTITIES	BY Phu Nguyen	CHECKED Mark Okimura			SPECIFICATIONS	BY Theresa Nedwick	

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

CU 07227 EA 215911

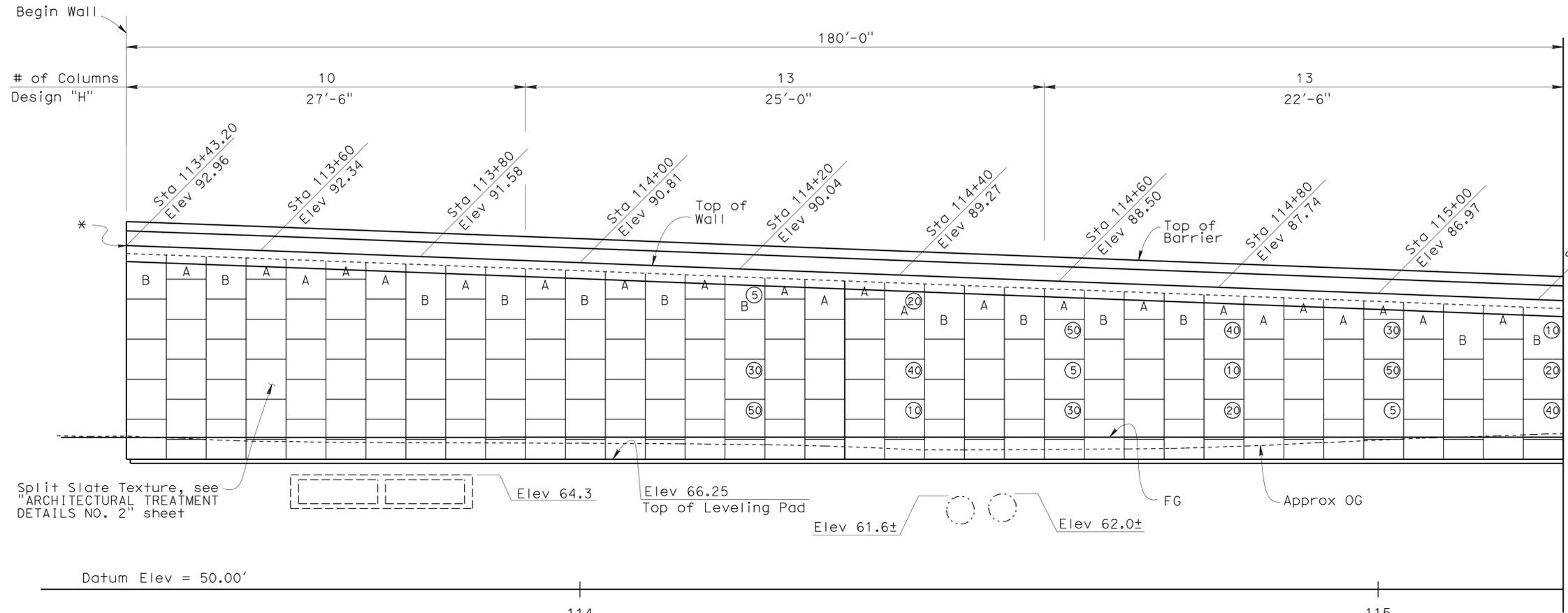
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-1-10 1-18-11 3-8-11 4-18-10 4-28-10 4-29-10 5-26-10 9-15-10	1	12

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.07-24-06) FILE => rw4-a-gp01.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	542	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
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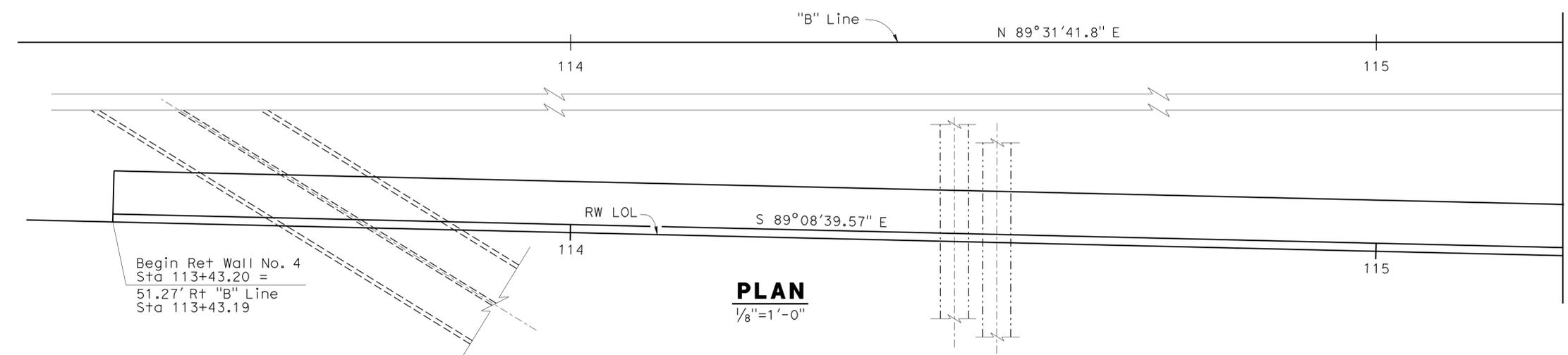
Indicates interval in years from time of construction to time of removal of inspection wire



Indicates panel type designation. For details, see "RETAINING WALL DETAILS NO. 2 AND NO. 3" sheets.

PANEL LEGEND
NO SCALE

ELEVATION
1/8"=1'-0"



PLAN
1/8"=1'-0"

DESIGN	BY Phu Nguyen	CHECKED Mark Okimura
DETAILS	BY Pauline Tong	CHECKED Mark Okimura
QUANTITIES	BY Phu Nguyen	CHECKED Mark Okimura

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH **11**

BRIDGE NO.	53E0154
POST MILE	1.68

RETAINING WALL NO. 4
STRUCTURE PLAN NO. 1

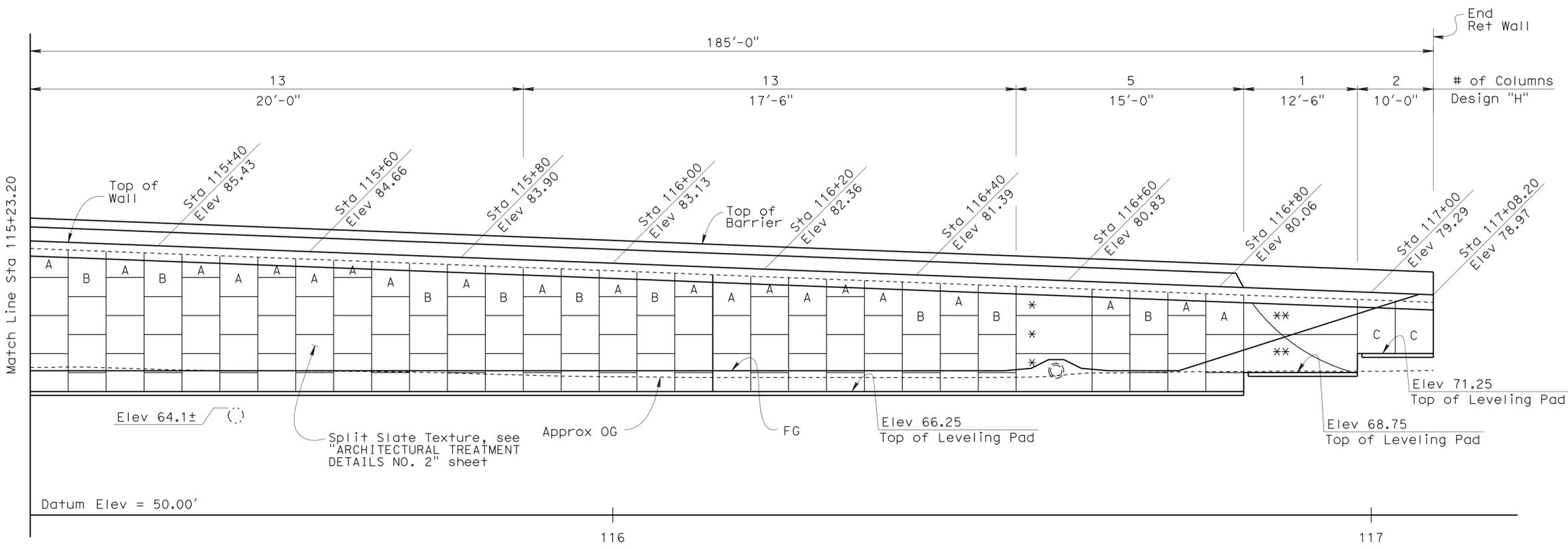


REVISION DATES	SHEET	OF
3-1-10 3-11-10 3-26-10 4-14-10 4-29-10 5-26-10 9-15-10	2	12

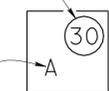
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	543	602

 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
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REGISTERED PROFESSIONAL ENGINEER
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



Indicates interval in years from time of construction to time of removal of inspection wire

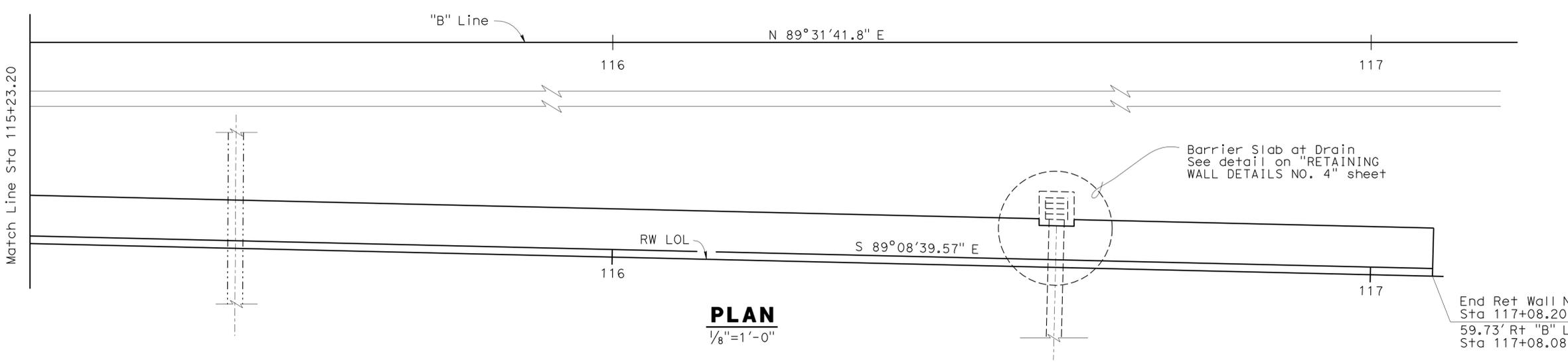


Indicates panel type designation. For details, see "RETAINING WALL DETAILS NO. 2 AND NO. 3" sheets.

PANEL LEGEND
NO SCALE

Note:
 * Panel is 10' wide at drainage inlet
 ** Panel is 15' wide

ELEVATION
1/8"=1'-0"



PLAN
1/8"=1'-0"

DESIGN	BY Phu Nguyen	CHECKED Mark Okimura
DETAILS	BY Pauline Tong	CHECKED Mark Okimura
QUANTITIES	BY Phu Nguyen	CHECKED Mark Okimura

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

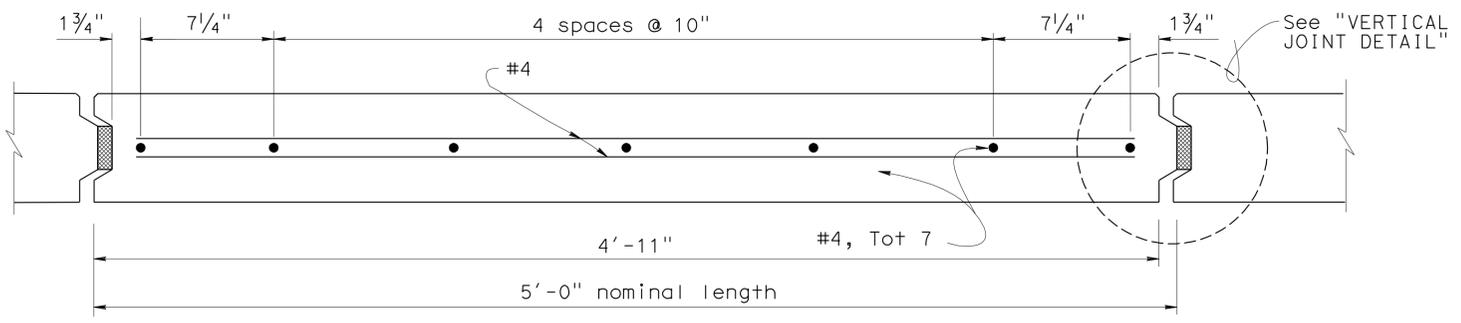
BRIDGE NO.	53E0154
POST MILE	1.68

RETAINING WALL NO. 4
STRUCTURE PLAN NO. 2



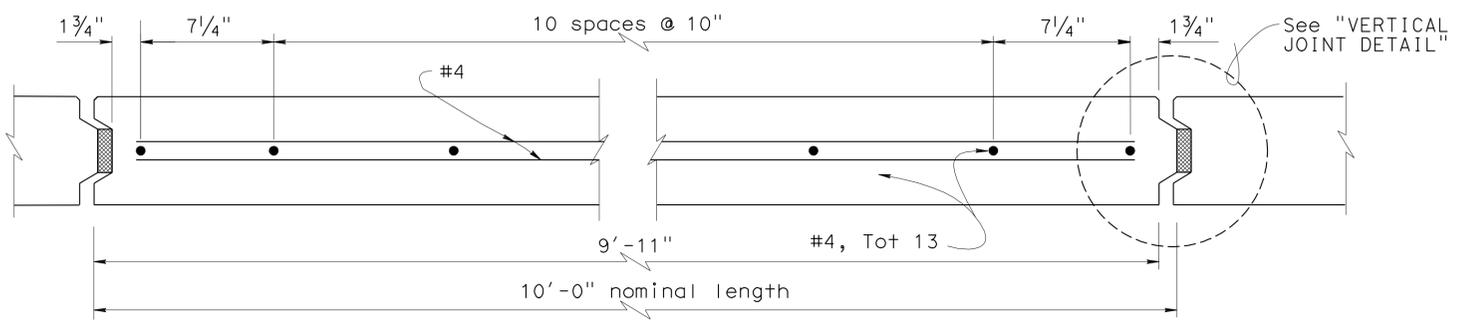
REVISION DATES										SHEET	OF
3-1-10	3-9-10	3-11-10	3-28-10	4-8-10	4-14-10	4-28-10	4-29-10	5-26-10	9-15-10	3	12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	545	602
Phu Vuong Nguyen 3-2-11 REGISTERED CIVIL ENGINEER DATE					
6-27-11 PLANS APPROVAL DATE					
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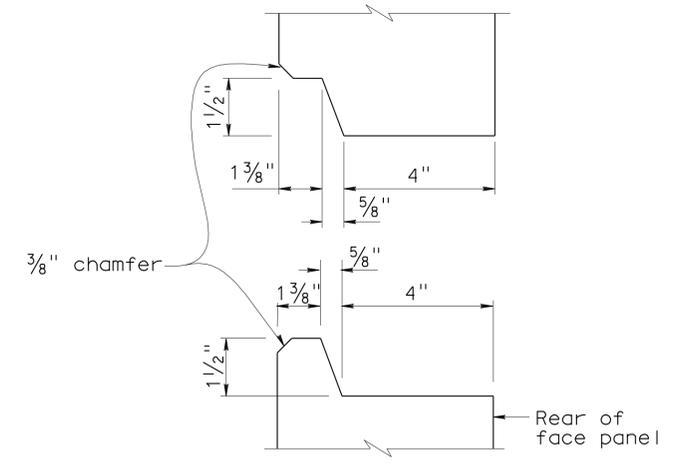
PLAN - 5' WIDE FACE PANEL

No Scale



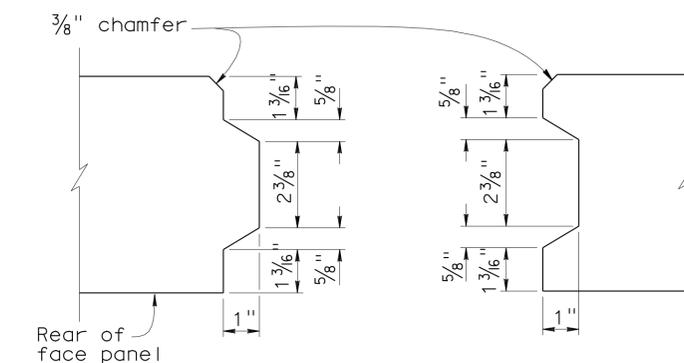
PLAN - 10' WIDE FACE PANEL

No Scale



HORIZONTAL JOINT DETAIL

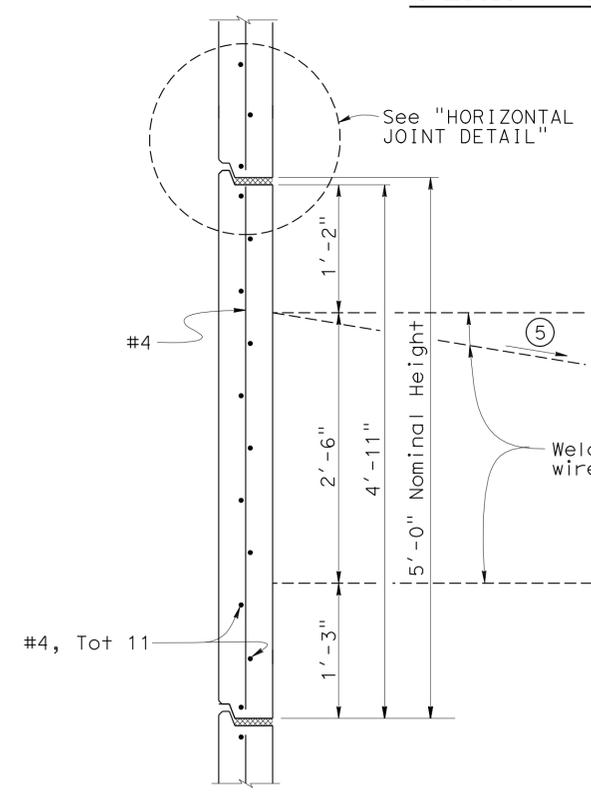
No Scale



VERTICAL JOINT DETAIL

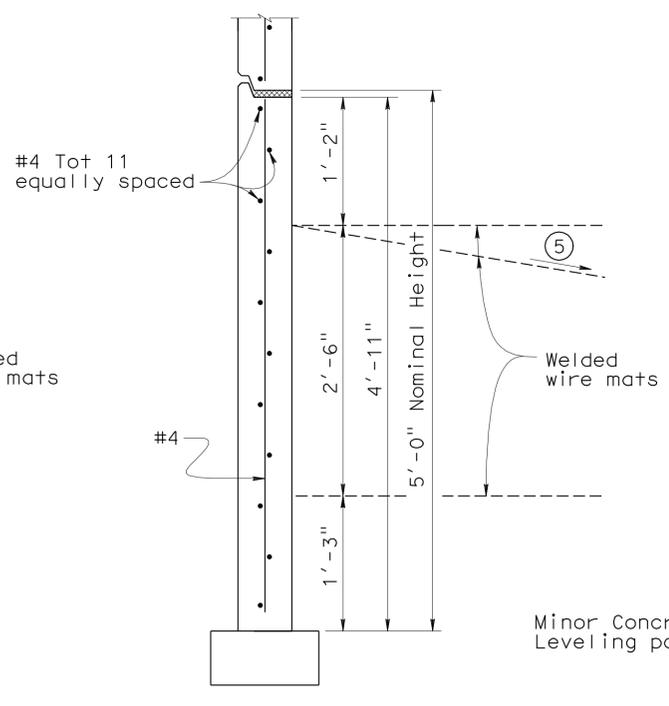
No Scale

- Notes:
- Architectural treatment not shown.
 - Place reinforced elastomeric bearing pads in all of the panel joints between the panels. Place one in each vertical joint where the horizontal joint intersects it. Place two for 5 feet wide panel and three for 10 feet wide panel per panel in each horizontal joint.
3/4" x 2 3/8" x 6" for vertical joints
3/4" x 4" x 6" for horizontal joints.
 - Bond a strip of filter fabric, 1'-0" wide, over the full length of all panel joints.
 - Top welded wire mat shall be sloped as required to clear roadway section.
 - 2nd to top welded wire mat shall be sloped down as required to maintain 6" min separation from other mats.
 - Dimension = 6" minimum when bottom welded wire mat is omitted.



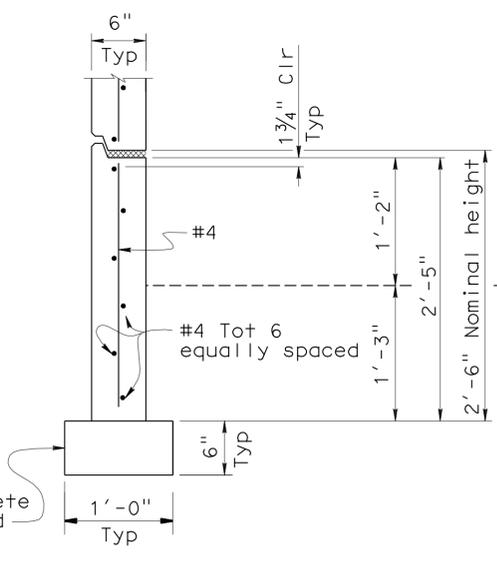
INTERMEDIATE PANEL

No Scale



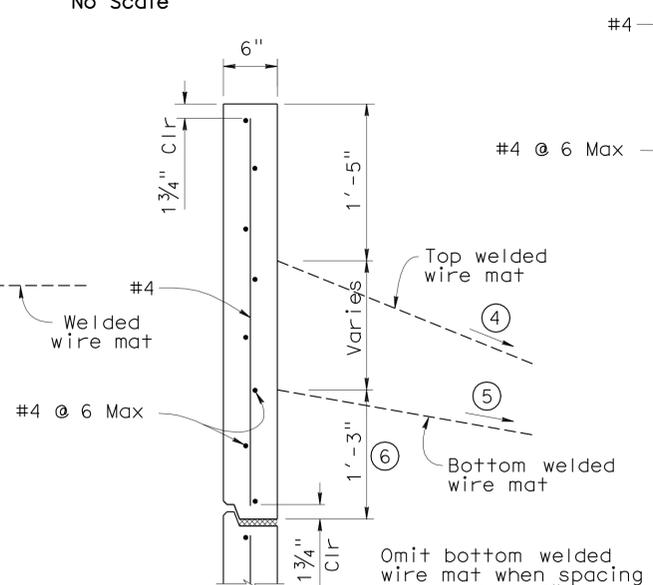
BOTTOM PANEL

No Scale



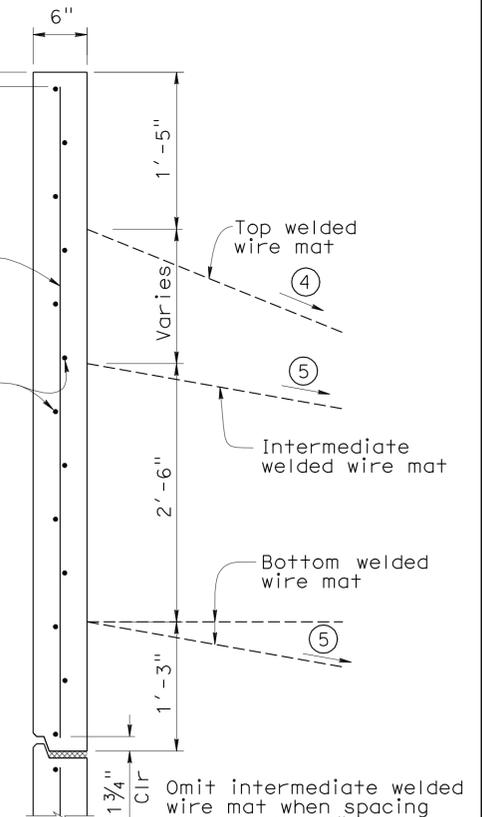
BOTTOM HALF PANEL

No Scale



TYPE "A" PANEL

No Scale



TYPE "B" PANEL

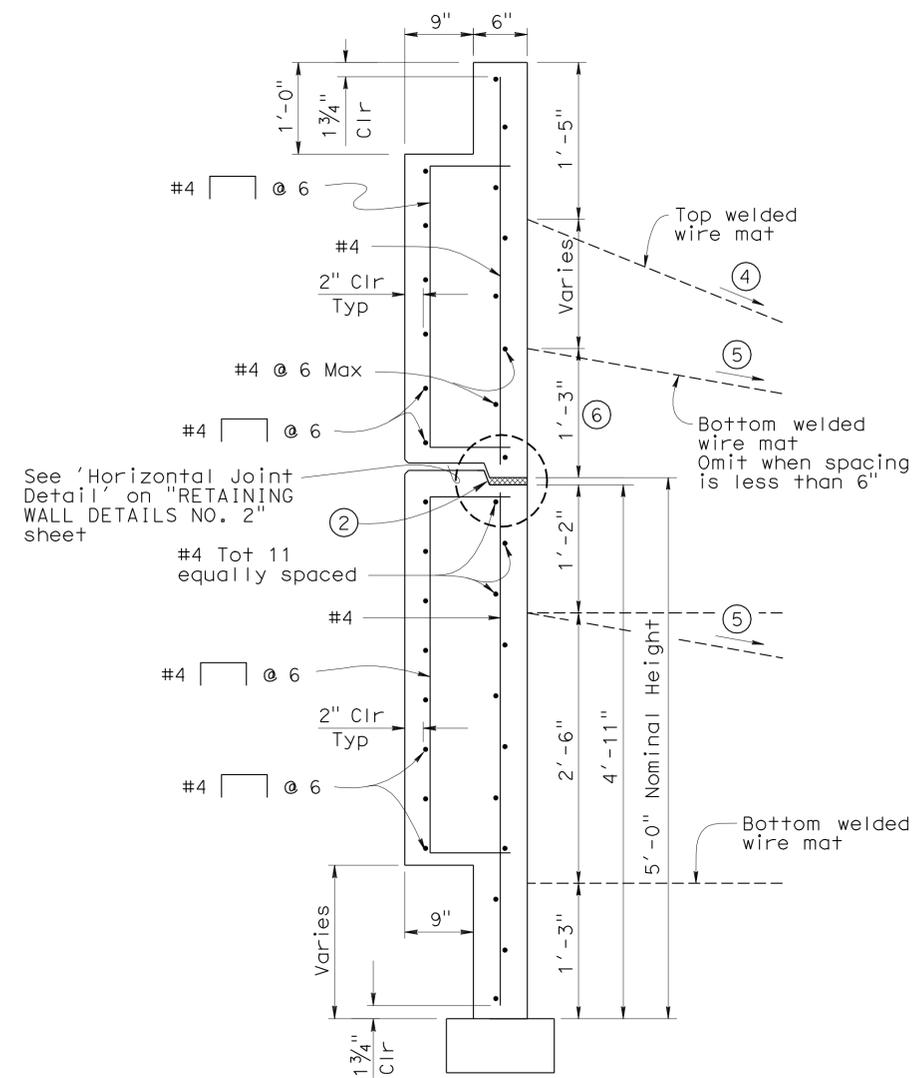
No Scale

DESIGN BY Mark Okimura CHECKED Phu Nguyen DETAILS BY David Elliott CHECKED Phu Nguyen QUANTITIES BY Phu Nguyen CHECKED Mark Okimura	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0154	RETAINING WALL NO. 4 RETAINING WALL DETAILS NO. 2	
			POST MILE 1.68		
			CU 07227 EA 215911	REVISION DATES	SHEET 5

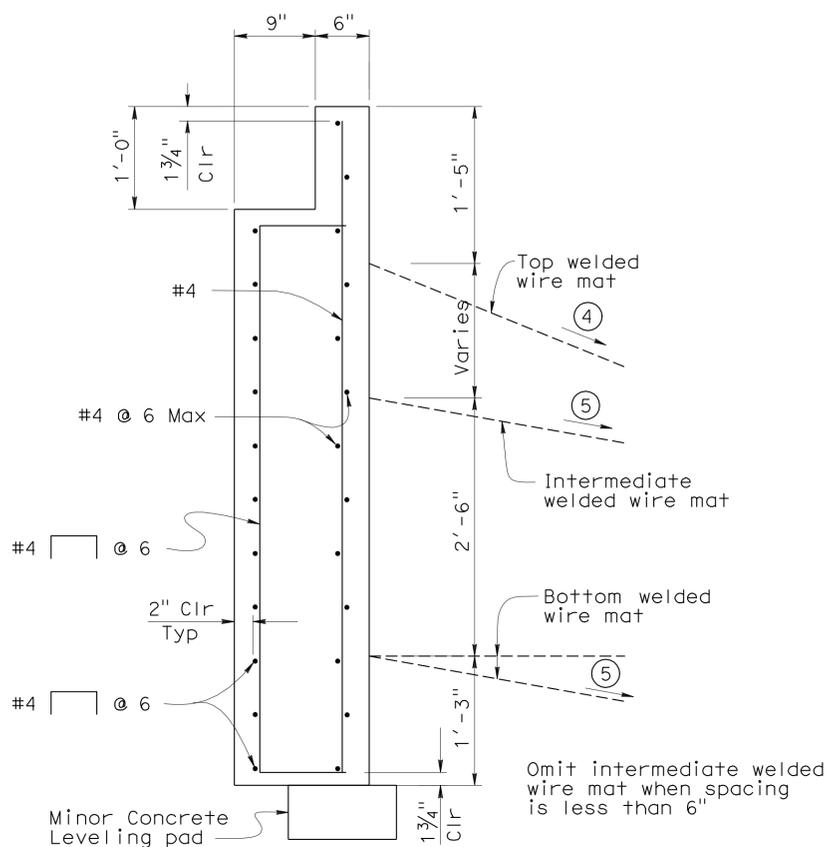
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	546	602

REGISTERED CIVIL ENGINEER DATE 3-2-11
 6-27-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



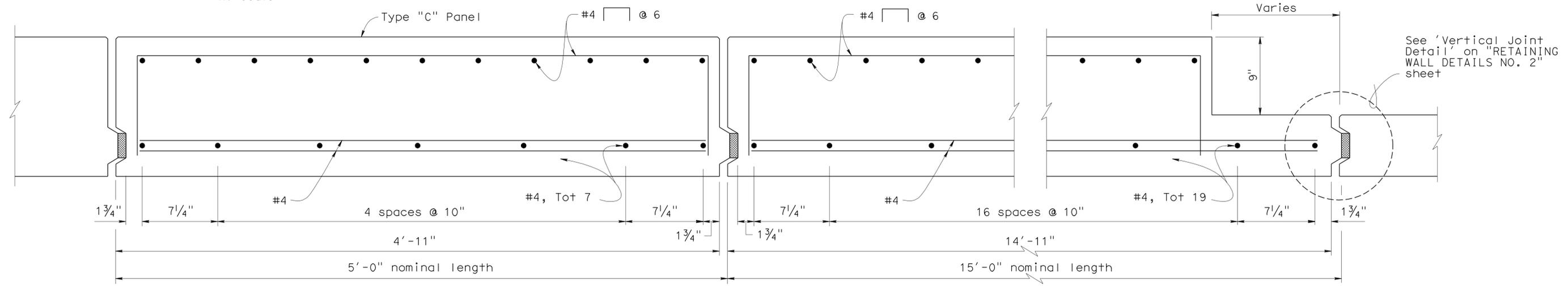
15' WIDE PANEL
No Scale



TYPE "C" PANEL
No Scale

Notes:

- ① Architectural treatment not shown.
- ② Place reinforced elastomeric bearing pads in all of the panel joints between the panels. Place one in each vertical joint where the horizontal joint intersects it. Place four per 15' wide panel in each horizontal joint. $\frac{3}{4}$ " x $2\frac{3}{8}$ " x 6" for vertical joints. $\frac{3}{4}$ " x 4" x 6" for horizontal joints.
- ③ Bond a strip of filter fabric, 1'-0" wide, over the full length of all panel joints.
- ④ Top welded wire mat shall be sloped as required to clear roadway section.
- ⑤ 2nd to top welded wire mat shall be sloped down as required to maintain 6" min separation from other mats.
- ⑥ Dimension = 6" minimum when bottom welded wire mat is omitted.



PLAN - TYPE "C" & 15' WIDE FACE PANEL
No Scale

DESIGN	BY Phu Nguyen	CHECKED Mark Okimura
DETAILS	BY Pauline Tong	CHECKED Mark Okimura
QUANTITIES	BY Phu Nguyen	CHECKED Mark Okimura

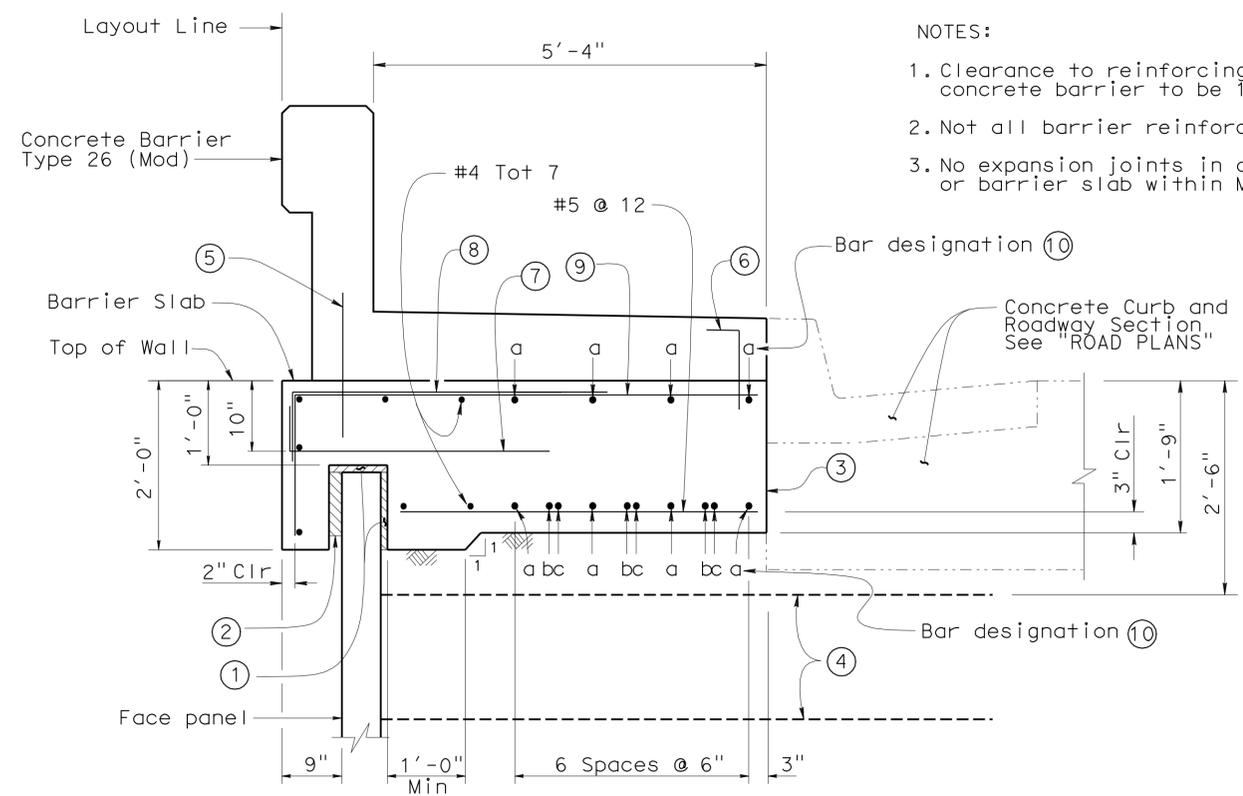
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 11

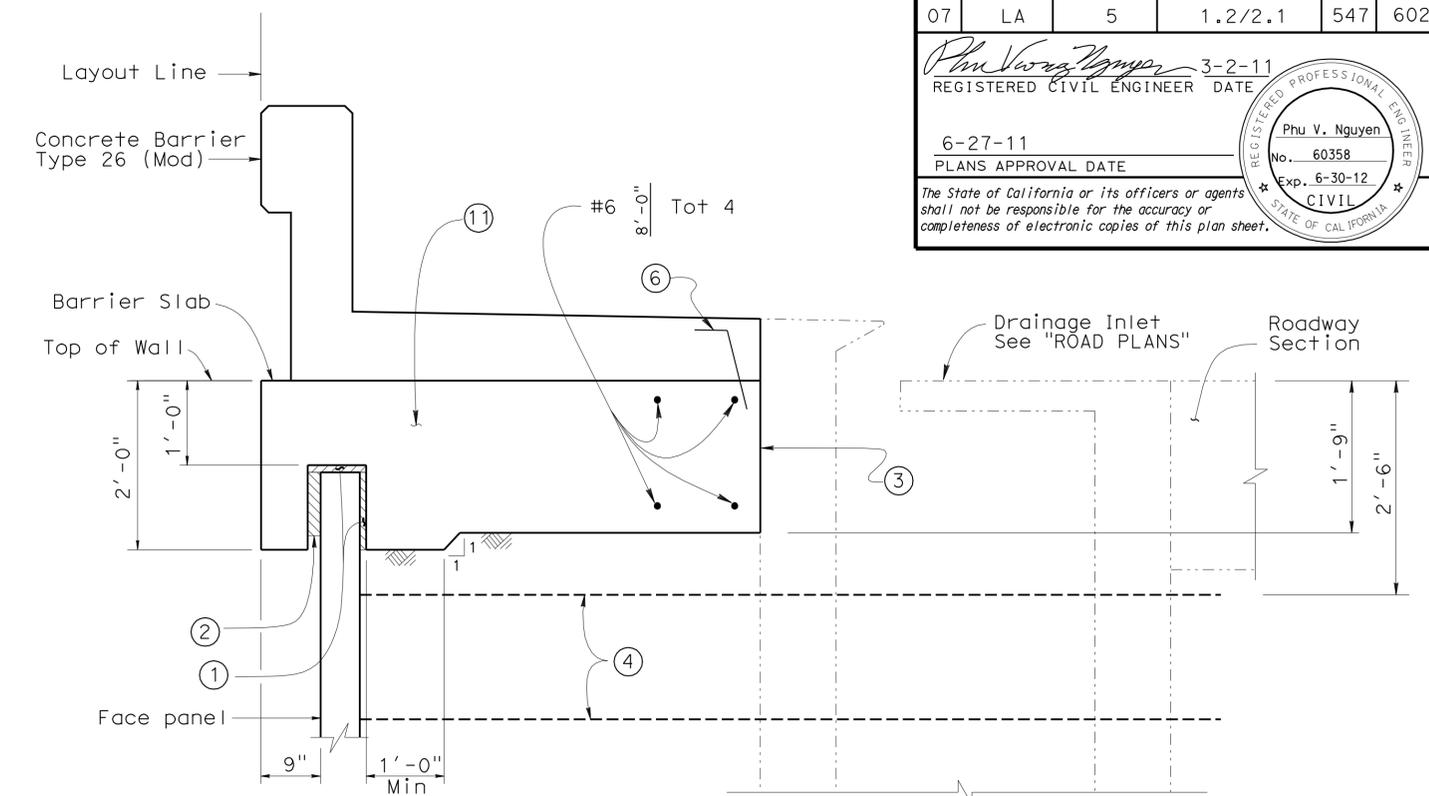
BRIDGE NO.	53E0154
POST MILE	1.68

RETAINING WALL NO. 4
RETAINING WALL DETAILS NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	547	602
REGISTERED CIVIL ENGINEER Phu V. Nguyen No. 60358 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA			3-2-11	DATE	
PLANS APPROVAL DATE 6-27-11					
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.					

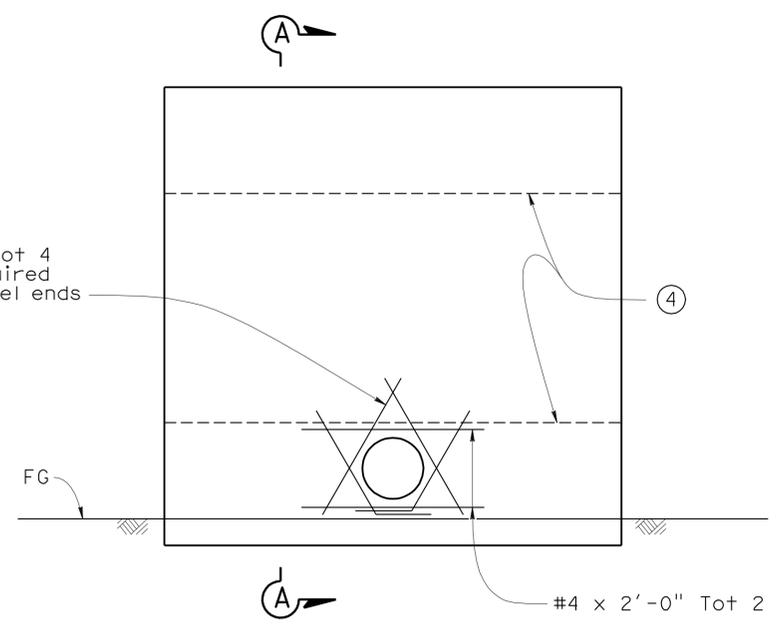


SECTION AT TOP OF WALL WITH BARRIER SLAB AND CONCRETE BARRIER
No Scale

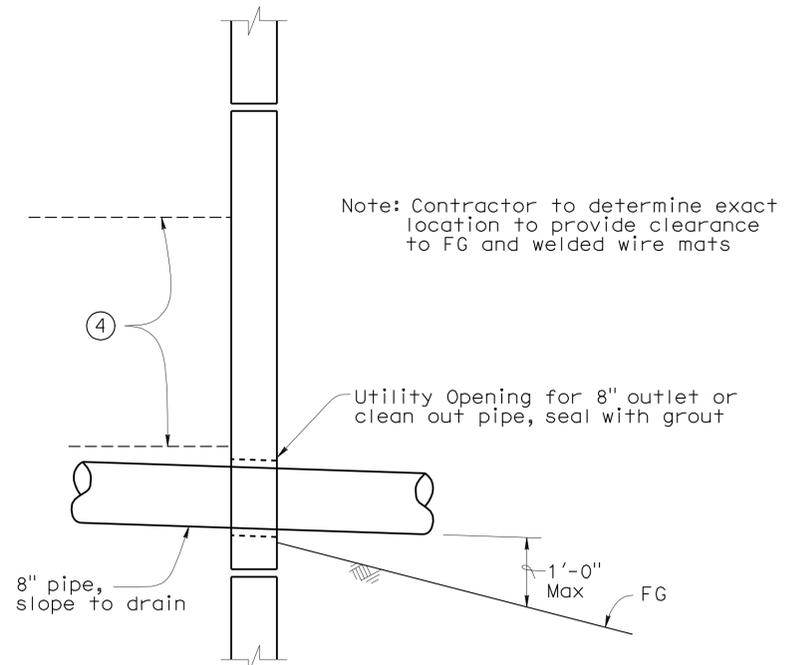


SECTION AT TOP OF WALL WITH BARRIER SLAB AND CONCRETE BARRIER AT DRAINAGE INLET
No Scale

- LEGEND:
- ① 1" Expanded polystyrene
 - ② 2" Expanded polystyrene. Recess expanded polystyrene 2" into barrier slab
 - ③ Contact joint
 - ④ Welded Wire Mat Soil reinforcement.
 - ⑤ #4 x 1'-6" @ 1'-6" (To be in place prior to barrier slab concrete)
 - ⑥ #4 $\left[\begin{array}{l} 1' \\ 0" \\ 1' \end{array} \right]$ @ 1'-6" (To be in place prior to barrier slab concrete)
 - ⑦ #5 $\left[\begin{array}{l} 6 \\ 4" \\ 3' \end{array} \right]$ @ 1'-0"
 - ⑧ #5 $\left[\begin{array}{l} 4' \\ 7" \end{array} \right]$ @ 1'-0" bundled with 9 bars
 - ⑨ #5 $\left[\begin{array}{l} 1' \\ 0" \end{array} \right]$
 - ⑩ "a" bar = #6 continuous
"b" bar = #6 X 59'-0"
"c" bar = #6 X 49'-2"
Place "b" and "c" bars at beginning and ending ends of barrier slab
 - ⑪ For Barrier Slab Reinf not shown, see 'Section at Top of Wall with Barrier Slab and Concrete Barrier' detail



UTILITY OPENING DETAIL
No Scale



SECTION A-A
No Scale

DESIGN	BY Mark Okimura	CHECKED Phu Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0154	RETAINING WALL NO. 4												
	DETAILS BY David Elliott	CHECKED Phu Nguyen			POST MILE 1.68		RETAINING WALL DETAILS NO. 4											
	QUANTITIES BY Phu Nguyen	CHECKED Mark Okimura																
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)				CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th colspan="6">REVISION DATES</th> </tr> <tr> <td>3-1-10</td> <td>3-4-10</td> <td>3-11-10</td> <td>4-13-10</td> <td>5-26-10</td> <td>9-15-10</td> </tr> </table>	REVISION DATES						3-1-10	3-4-10	3-11-10	4-13-10	5-26-10	9-15-10
REVISION DATES																		
3-1-10	3-4-10	3-11-10	4-13-10	5-26-10	9-15-10													

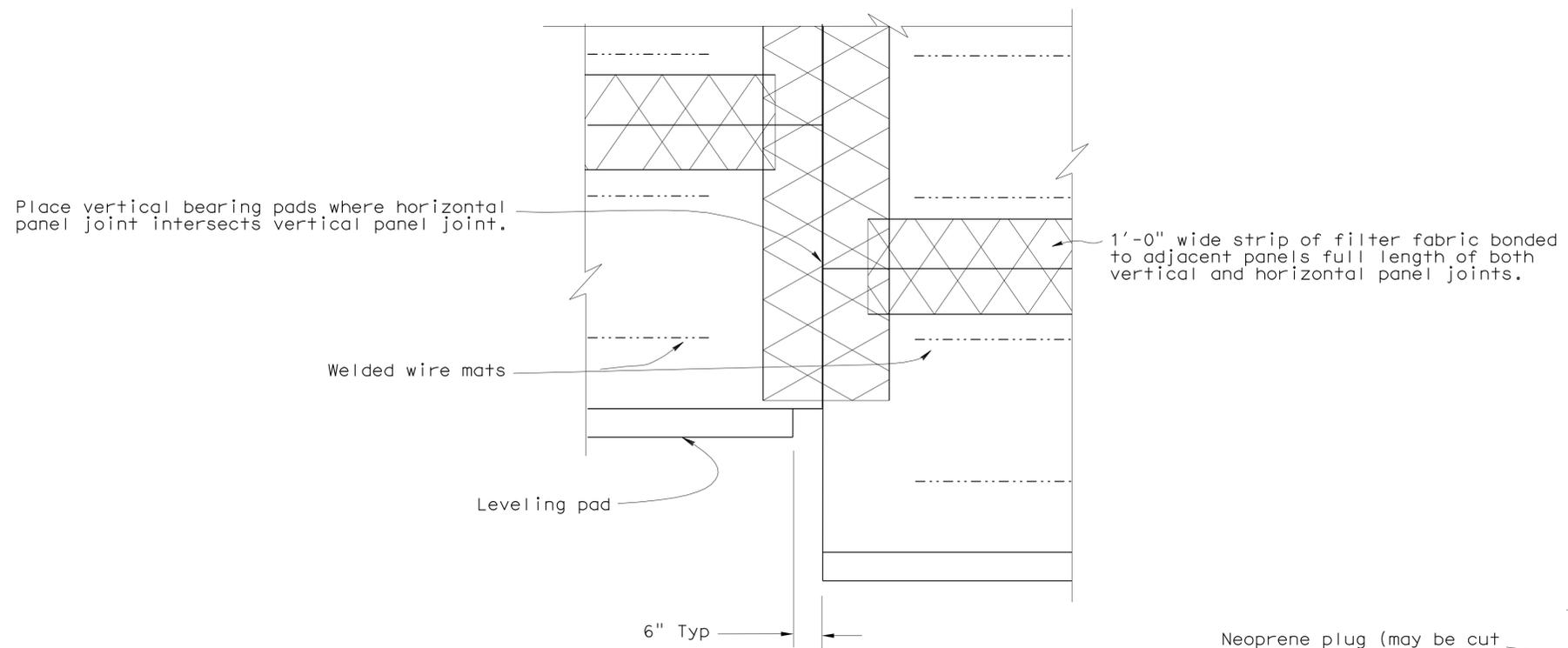
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	548	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

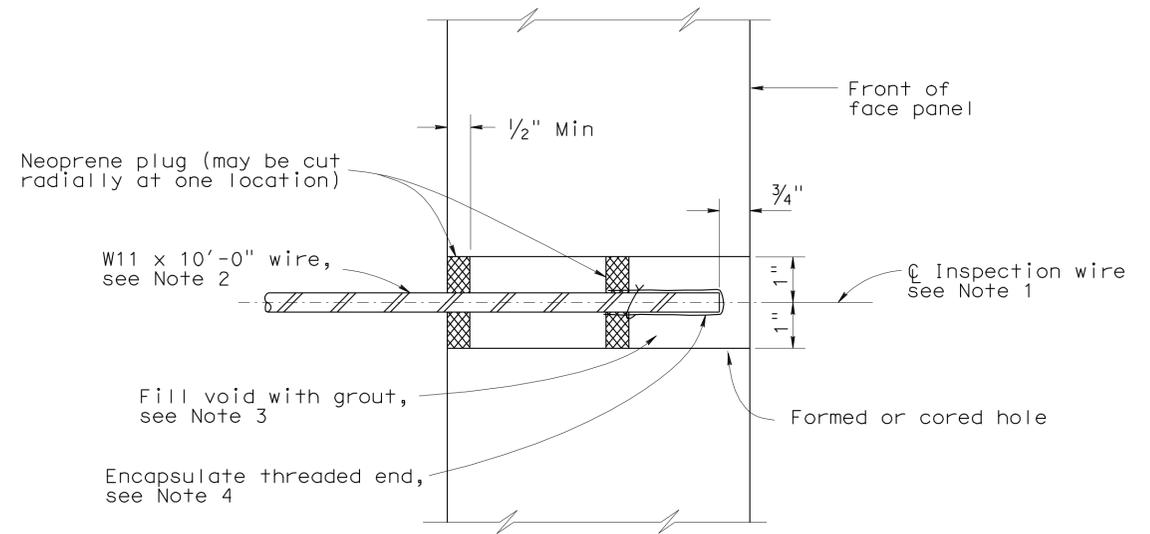
6-27-11
 PLANS APPROVAL DATE

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.

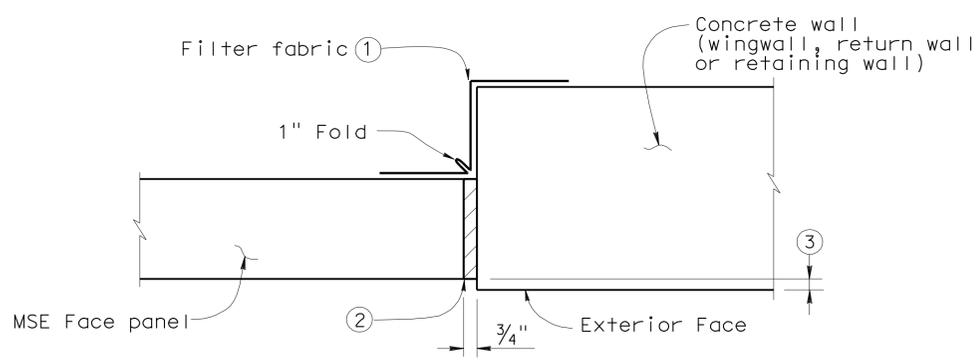
REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



REAR ELEVATION
No Scale



SECTION THRU INSPECTION WIRE
No Scale



MSE FACE PANEL-TO-CONCRETE WALL JOINT DETAIL
No Scale

- LEGEND:
- ① Bond a strip of filter fabric, 1'-6" wide, to back of MSE panels and the adjacent concrete wall for entire length of vertical joint.
 - ② Bond expansion joint material to the concrete wall.
 - ③ Offset between face of MSE face panel and face of the concrete wall as dictated by location of layout lines shown elsewhere in Project Plans.

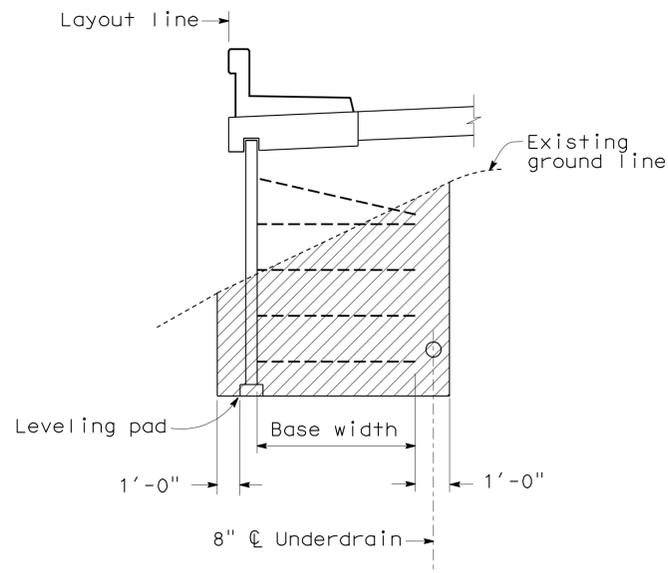
- NOTES:
1. Center inspection wire in face panel.
 2. Fabricate inspection wires from W11 wire representative of the welded wire mats, with 3/8" dia - 16 UNC threads for at least 1/2" of one end.
 3. Place inspection wire horizontal and perpendicular to the wall panel prior to backfilling. After backfill placement to a level at least 2'-0" above the inspection wire, dry pack opening with 1000 to 1500 psi mortar. Trowel mortar smooth and flush with face of panel.
 4. Encapsulate threaded end with corrosion inhibiting mastic, and secure round vinyl cover with nylon tie.
- UNC = Unified coarse threads

DESIGN	BY Mark Okimura	CHECKED Phu Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0154	RETAINING WALL NO. 4
	DETAILS	BY David Elliott			CHECKED Phu Nguyen	
QUANTITIES	BY Phu Nguyen	CHECKED Mark Okimura	CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 8 OF 12

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 FILE => rw4-g-wall1det05.dgn

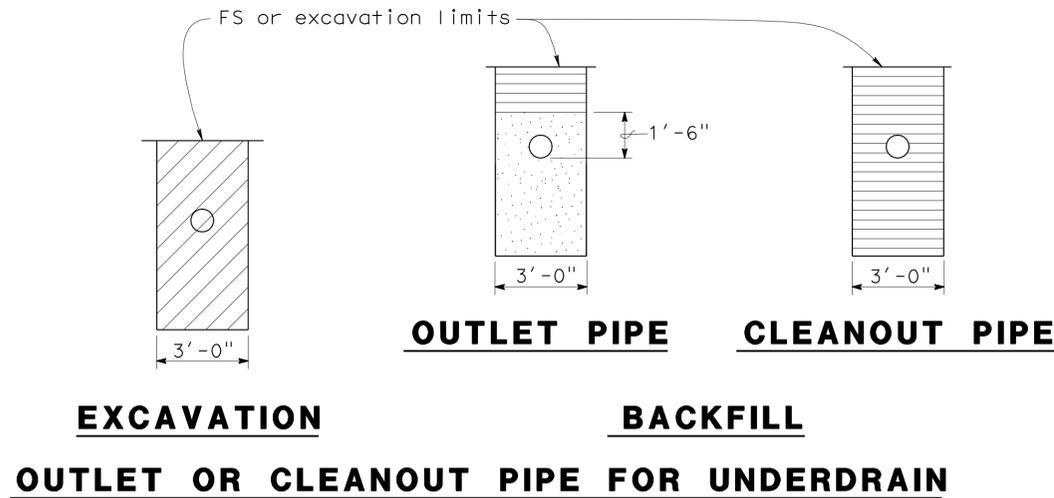
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	549	602

REGISTERED CIVIL ENGINEER **Phu V. Nguyen** No. 60358 Exp. 6-30-12
 DATE 3-2-11
 PLANS APPROVAL DATE 6-27-11
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LIMITS OF EXCAVATION

No Scale



EXCAVATION BACKFILL
OUTLET OR CLEANOUT PIPE FOR UNDERDRAIN

No Scale

ABBREVIATIONS

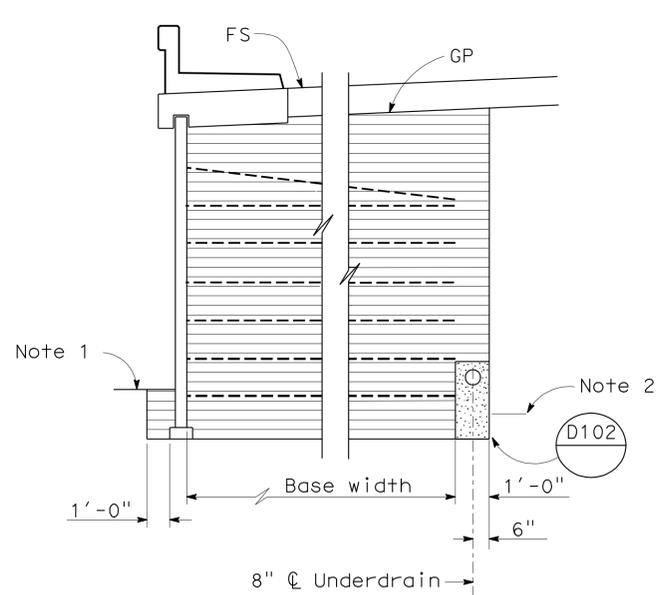
- OG Original ground
- FS Planned finished surface
- GP Planned grading plane

LEGEND

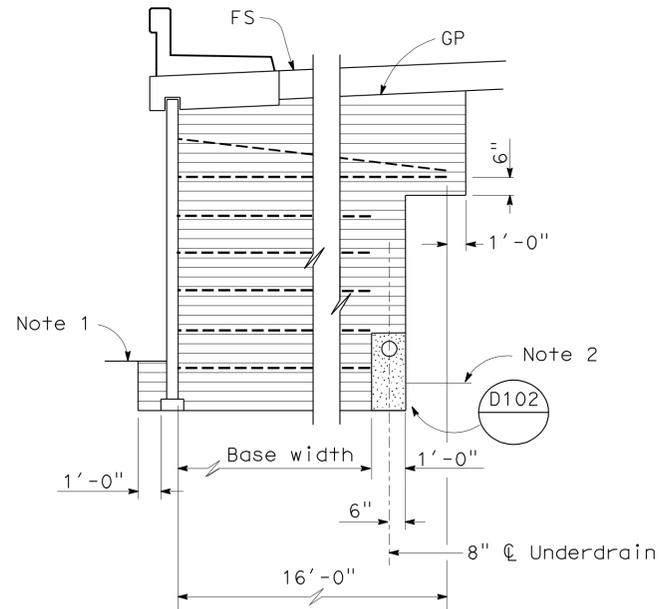
- Limits of structure excavation
- Limits of structure backfill
- Limits of permeable material

NOTES:

1. Limits to FS except to GP when in roadway section.
2. Locate 8" perforated underdrain as shown.
3. Maximum spacing of outlet pipes is 200 ft.
4. At sags in profile of underdrain, install outlet pipe for each direction of flow.



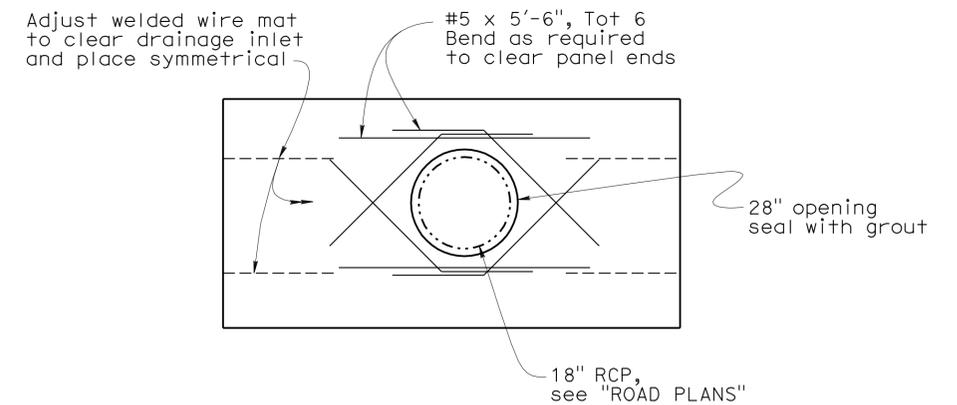
ROADWAY SECTION WITH BASE WIDTH 16' OR GREATER



ROADWAY SECTION WITH BASE WIDTH LESS THAN 16'

LIMITS OF BACKFILL

No Scale



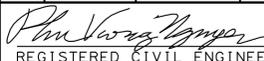
10' WIDE PANEL DRAINAGE OPENING

No Scale

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Mark Okimura	CHECKED Phu Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 4	
	DETAILS	BY David Elliott	CHECKED Phu Nguyen			53E0154		RETAINING WALL DETAILS NO. 6
	QUANTITIES	BY Phu Nguyen	CHECKED Mark Okimura			POST MILE 1.68		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 9 OF 12	

USERNAME => s124496 DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:08
 FILE => rw4-g-wal1det06.dgn

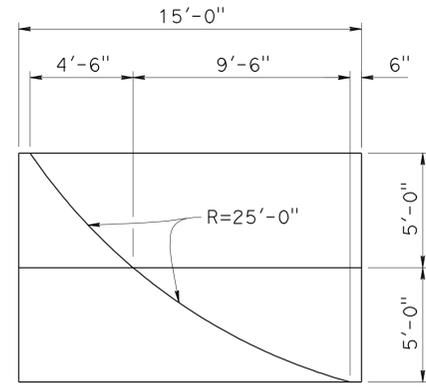
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	550	602

 3-2-11
 REGISTERED CIVIL ENGINEER DATE

6-27-11
 PLANS APPROVAL DATE

No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

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DETAIL A
No Scale

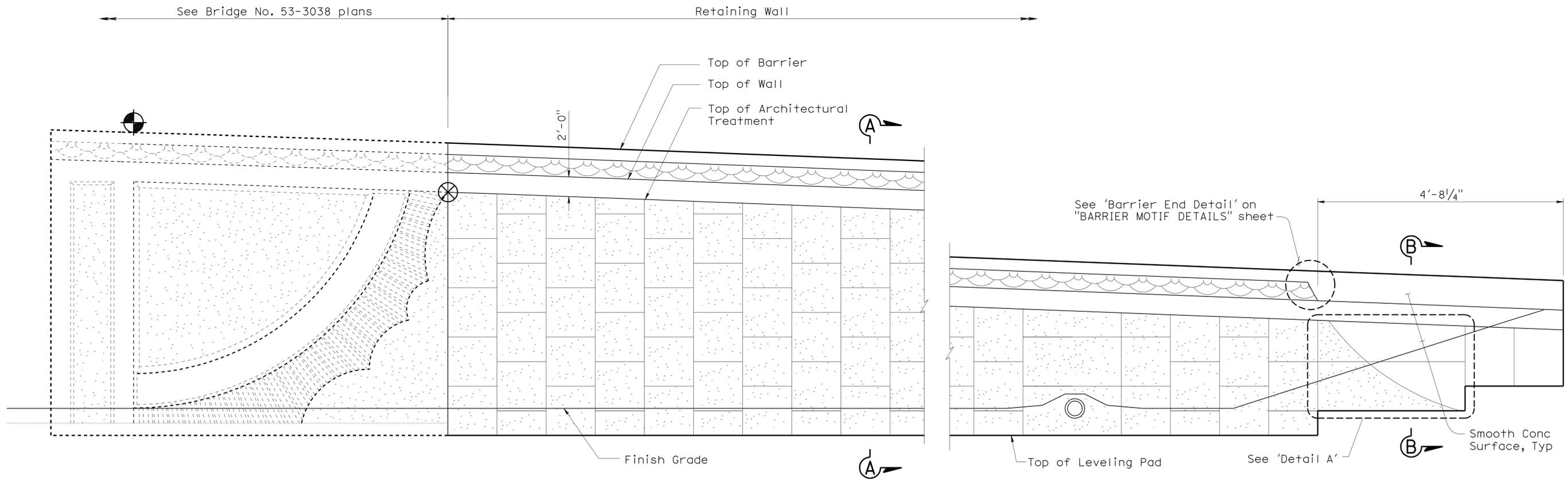
Note: Detail shown is geometric outline for the 25' radius arc

Notes:

1. All reference to surface dimensions of wall details are from datum 0 = face of MSE wall, typical
2. For Section 'A-A', and 'B-B', see "ARCHITECTURAL TREATMENT DETAILS NO. 2" sheet

Legend:

-  Split Slate Texture Concrete Surface
-  Smooth Concrete Surface



PARTIAL ELEVATION

3/16" = 1'

DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia
DETAILS	BY Pauline Tong	CHECKED Javier Chavez
QUANTITIES	BY Phu Nguyen	CHECKED Mark Okimura

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 11

BRIDGE NO.	53E0154
POST MILE	1.68

RETAINING WALL NO. 4
ARCHITECTURAL TREATMENT DETAILS NO. 1

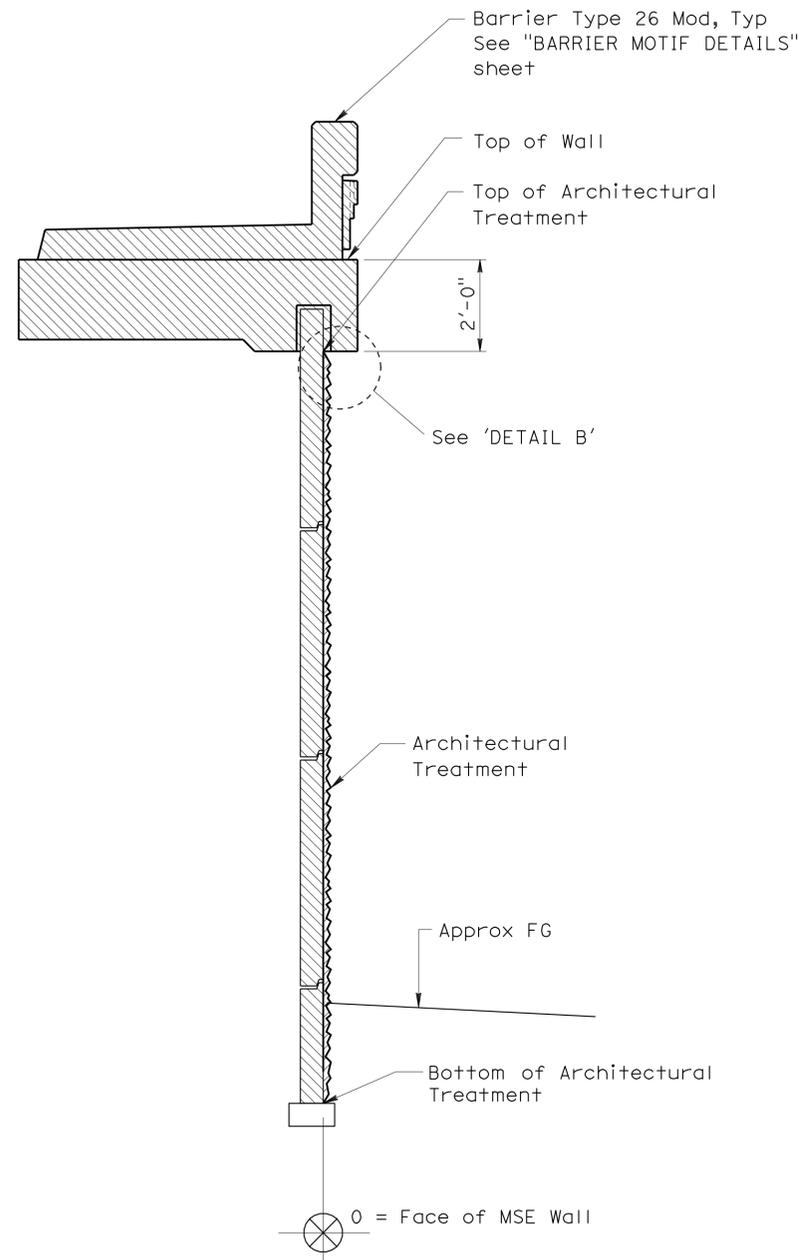
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	551	602

Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

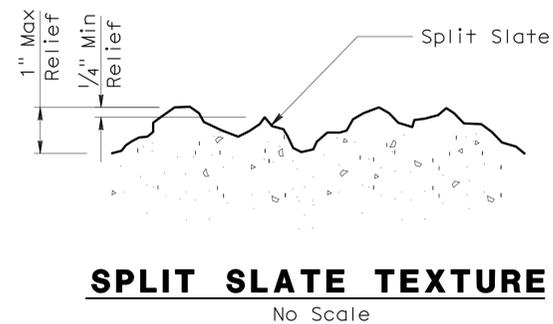
6-27-11
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

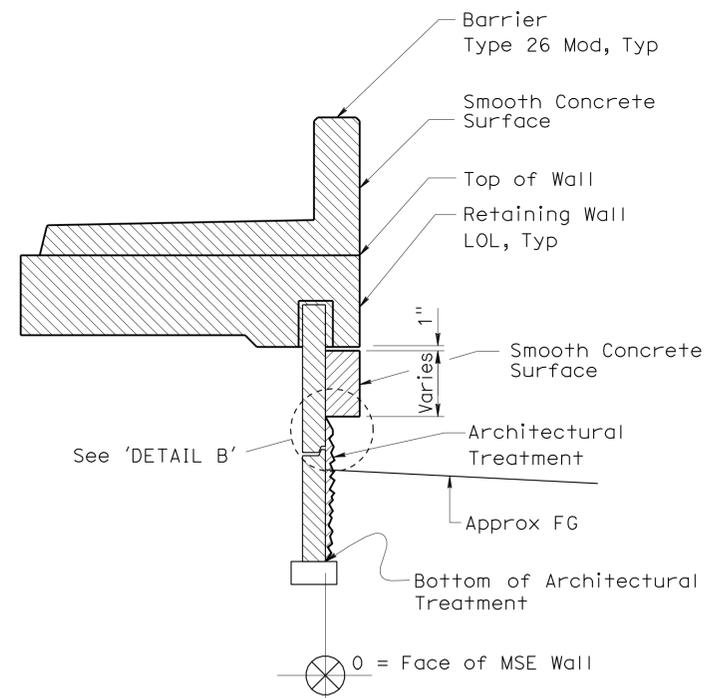


SECTION A-A
No Scale

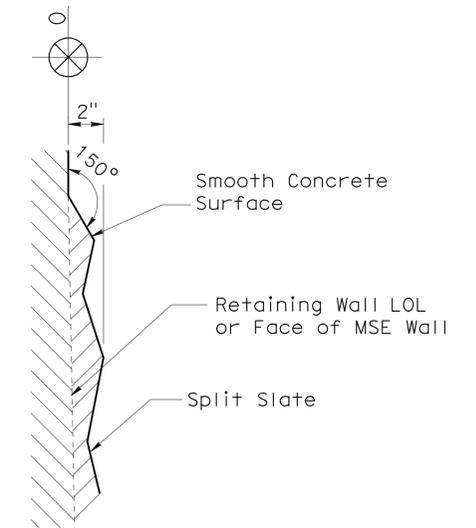


SPLIT SLATE TEXTURE
No Scale

Note: All reference to surface dimensions of wall details are from datum 0 = face of MSE wall, Typical



SECTION B-B
No Scale



DETAIL B
No Scale

DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia
DETAILS	BY Pauline Tong	CHECKED Javier Chavez
QUANTITIES	BY Phu Nguyen	CHECKED Mark Okimura

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	53E0154
POST MILE	1.68

RETAINING WALL NO. 4
ARCHITECTURAL TREATMENT DETAILS NO. 2

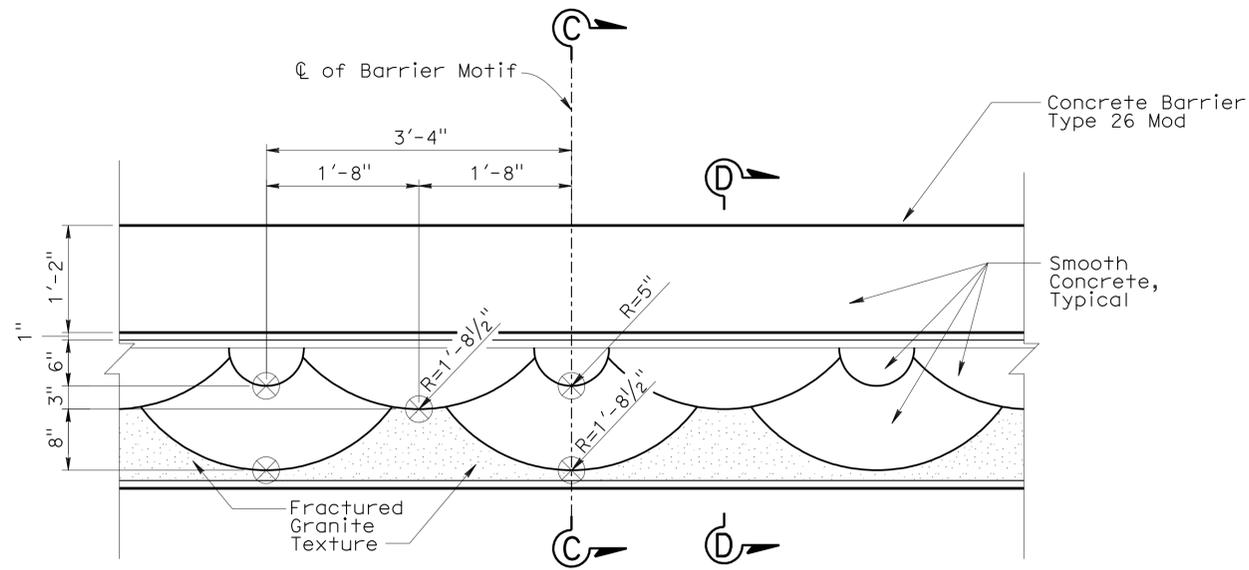
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07	LA	5	1.2/2.1	552	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

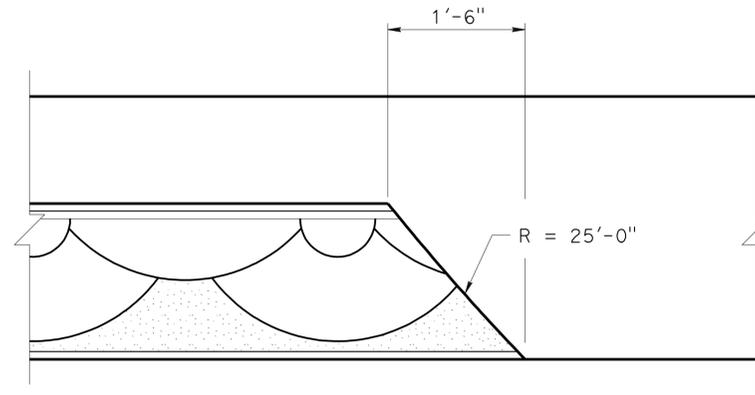
6-27-11
 PLANS APPROVAL DATE

No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

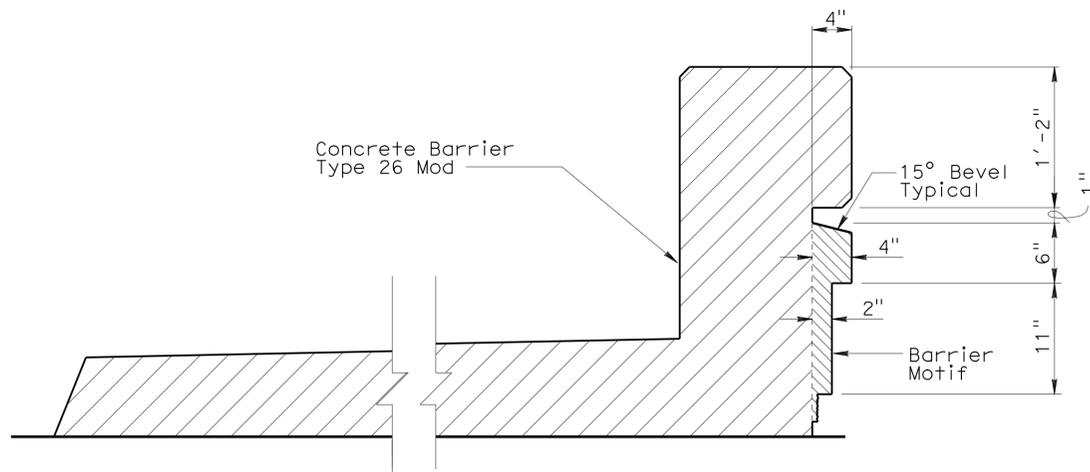
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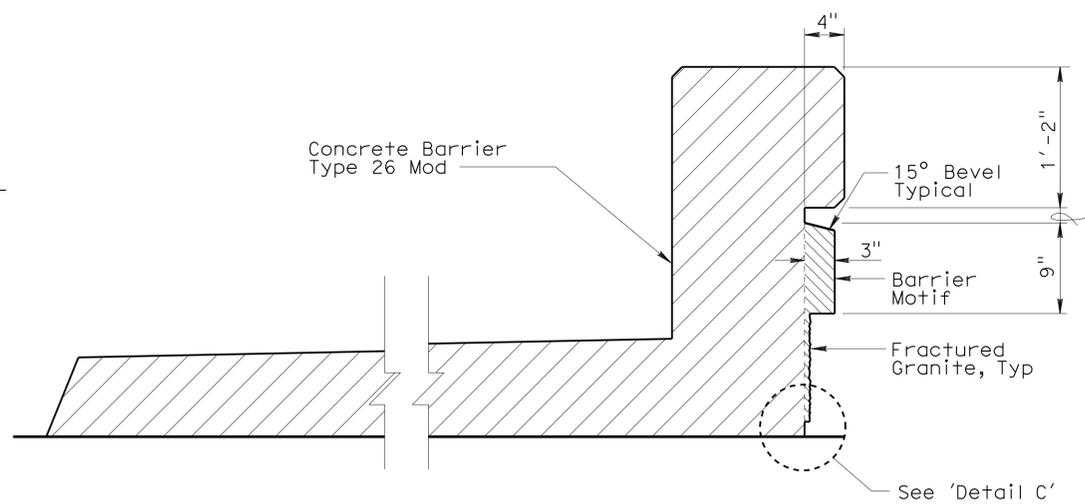
ELEVATION - BARRIER MOTIF
No Scale



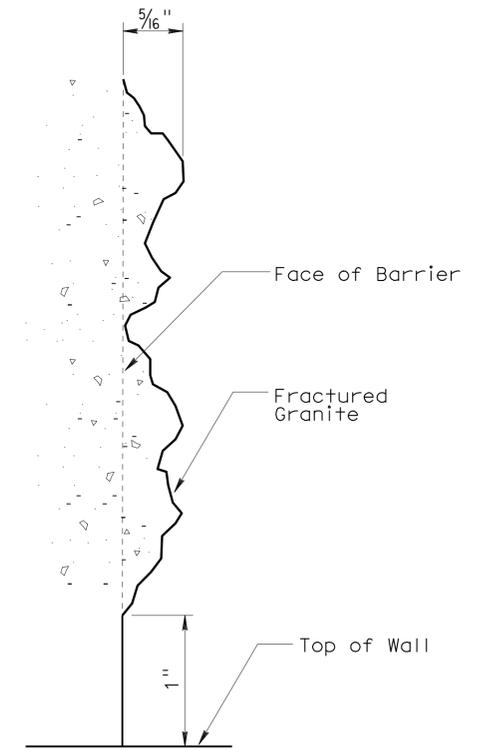
BARRIER END DETAIL
No Scale



SECTION C-C
No Scale



SECTION D-D
No Scale



DETAIL C
No Scale

DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia
DETAILS	BY Pauline Tong	CHECKED Javier Chavez
QUANTITIES	BY Phu Nguyen	CHECKED Mark Okimura

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	53E0154
POST MILE	1.68

RETAINING WALL NO. 4
BARRIER MOTIF DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	553	602

Phu V. Nguyen 3-2-11
REGISTERED CIVIL ENGINEER DATE

6-27-11
PLANS APPROVAL DATE

Phu V. Nguyen
No. 60358
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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STANDARD PLANS
Dated May 2006

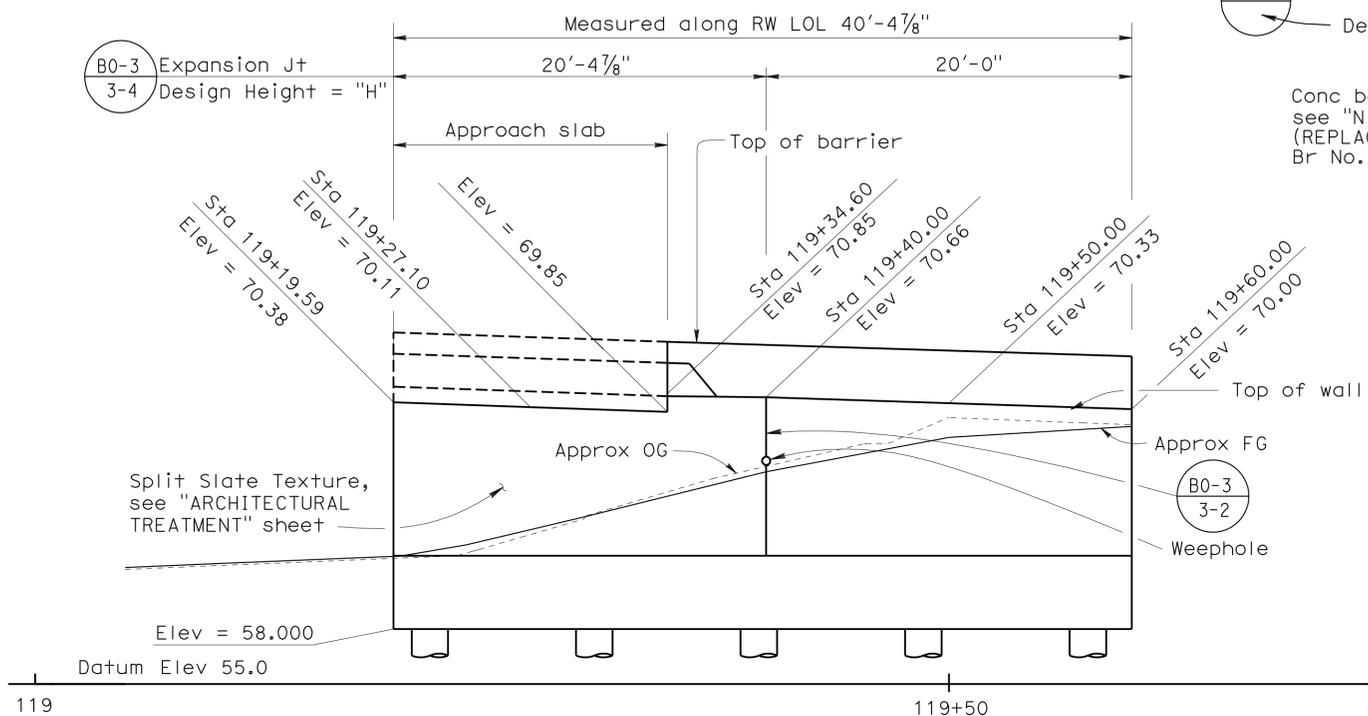
- A10A ACRONYMS AND ABBREVIATIONS (sheet 1 of 2)
- A10B ACRONYMS AND ABBREVIATIONS (sheet 2 of 2)
- A62B LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL- BRIDGE SURCHARGE AND WALL
- B0-3 BRIDGE DETAILS
- B2-3 16" AND 24" CAST-IN-DRILLED-HOLE CONCRETE PILE
- B3-8 RETAINING WALL DETAILS NO. 1
- B11-54 CONCRETE BARRIER TYPE 26

INDEX TO PLANS

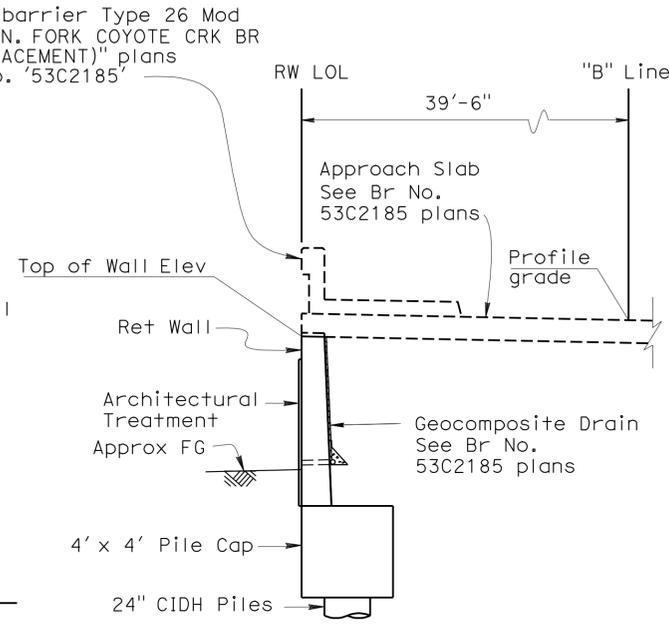
Sheet No.	Title
1	GENERAL PLAN
2	DETAILS
3	ARCHITECTURAL TREATMENT
4	BARRIER MOTIF DETAILS

QUANTITIES

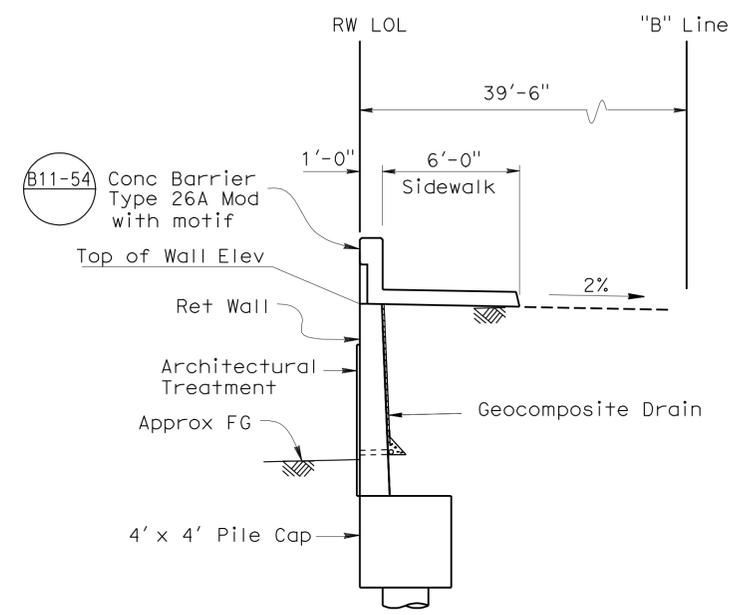
STRUCTURE EXCAVATION (RETAINING WALL)	76	CY
STRUCTURE BACKFILL (RETAINING WALL)	57	CY
24" CAST-IN-DRILLED-HOLE CONCRETE PILING	241	LF
STRUCTURAL CONCRETE, RETAINING WALL	38	CY
ARCHITECTURAL TREATMENT	119	SQFT
ARCHITECTURAL SURFACE (BARRIER)	1	SQFT
BAR REINFORCING STEEL (RETAINING WALL)	12,500	LB
CONCRETE BARRIER (TYPE 26 MODIFIED)	40	LF



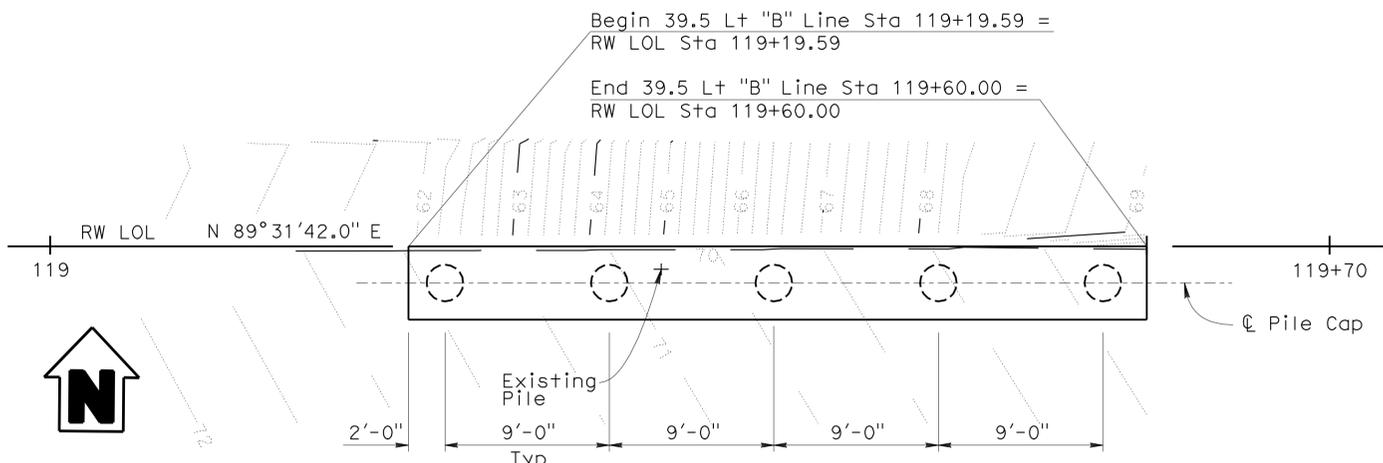
MIRROR ELEVATION
1" = 5'



SECTION AT APPROACH SLAB
1/4"=1'-0"



TYPICAL SECTION
1/4"=1'-0"



PLAN
1" = 5' Note: "B" Line not shown

Design Data

fc = 1,450 psi
f'c = 3,600 psi
fs = 24,000 psi
n = 10
earth = 120 psi
240 psf Surcharge



Note:
With engineer's approval, location of new piles may be adjusted to accommodate conflicts with existing piles

Ramin Rashedi DESIGN ENGINEER	DESIGN	BY Ubong Inyang	CHECKED Jay Posey	LAYOUT	BY Ubong Inyang	CHECKED Jay Posey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	53E0155	RETAINING WALL NO. 5	
	DETAILS	BY Tom Bittermann	CHECKED Jay Posey		BY Ubong Inyang	CHECKED Jay Posey			POST MILE	2.43		GENERAL PLAN
	QUANTITIES	BY Ubong Inyang	CHECKED Jaime Ramirez		SPECIFICATIONS	BY Theresa Nedwick			PLANS AND SPECS COMPARED Theresa Nedwick	CU 07227 EA 215911		

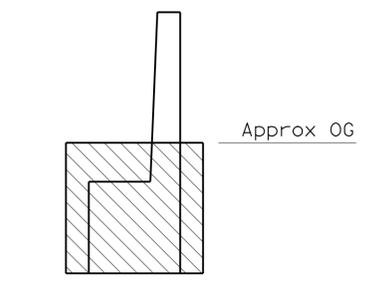
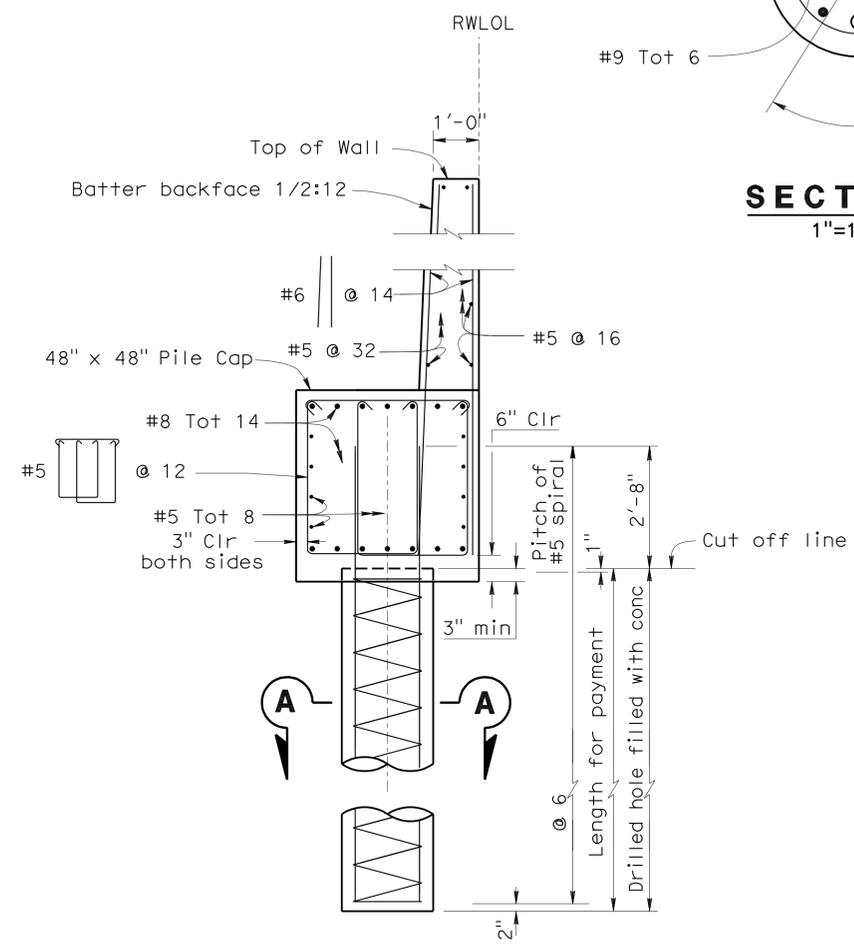
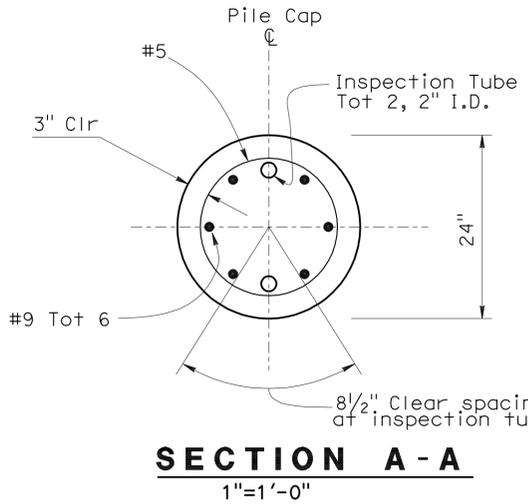
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

FILE => rw5-a-gp01.dgn

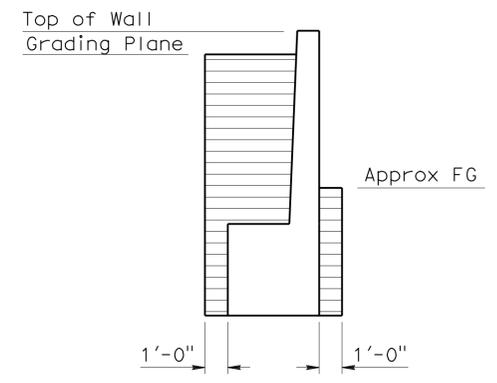
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	554	602

REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

6-27-11
 PLANS APPROVAL DATE
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EXCAVATION
No Scale

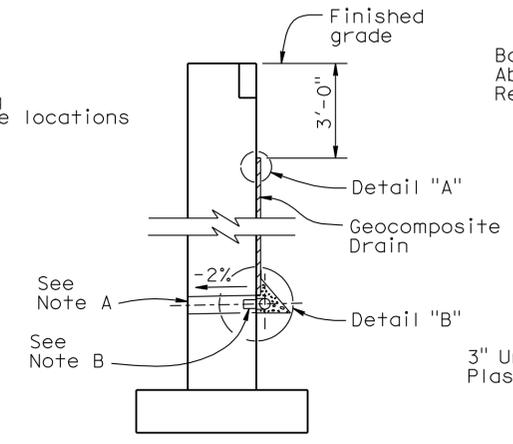


BACKFILL
No Scale

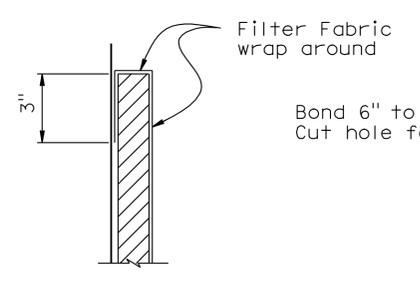
- Indicates limits of payment for Structure Excavation (Retaining Wall)
- Indicates limits of payment for Structure Backfill (Retaining Wall)

- NOTES:**
- Pile Tip is at 10' elevation.
 - For additional Notes and Details not shown see, "STANDARD PLAN B2-3"
 - Design Capacity = 200 kips
For Details not shown see **A 62 B**

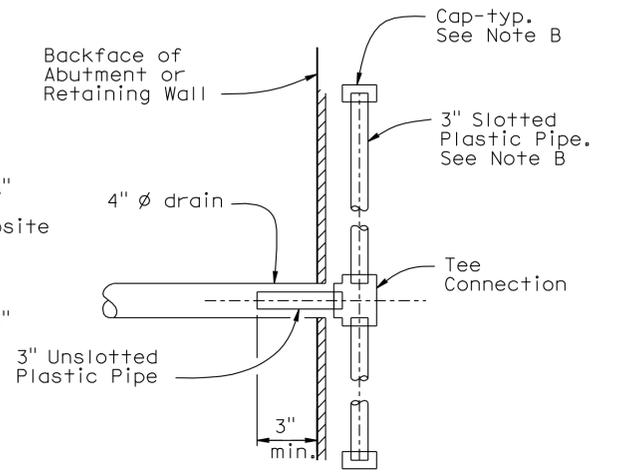
REINFORCEMENT SECTION
1/2"=1'-0"



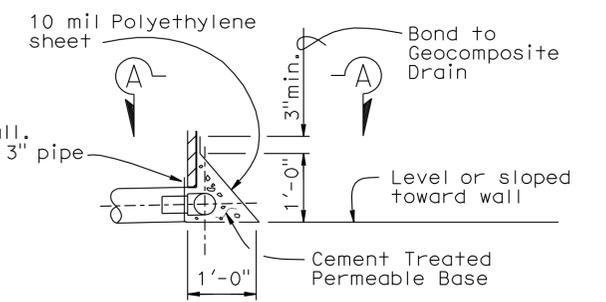
WALL SECTION



DETAIL "A"



SECTION A-A



DETAIL "B"

WEEP HOLE AND GEOCOMPOSITE DRAIN

- NOTES:**
- Exposed wall drains shall be located 3"± above finished grade.
 - Geocomposite drain, cement treated permeable base, and 3"Ø slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" Ø drain.
 - Connect the low end of plastic pipe to the main outlet pipe as applicable.

DESIGN BY Ubong Inyang CHECKED Jay Posey DETAILS BY Tom Bittermann CHECKED Jay Posey QUANTITIES BY Ubong Inyang CHECKED Jaime Ramirez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0155	RETAINING WALL NO. 5 DETAILS			
			POST MILE 2.43		SHEET 2 OF 4		
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 11-18-09 2/4/10 3-08-10 3-11-10 3-17-10 4-08-10 4-29-10 5-08-10 5-26-10	FILE => rw5-b-details.dgn

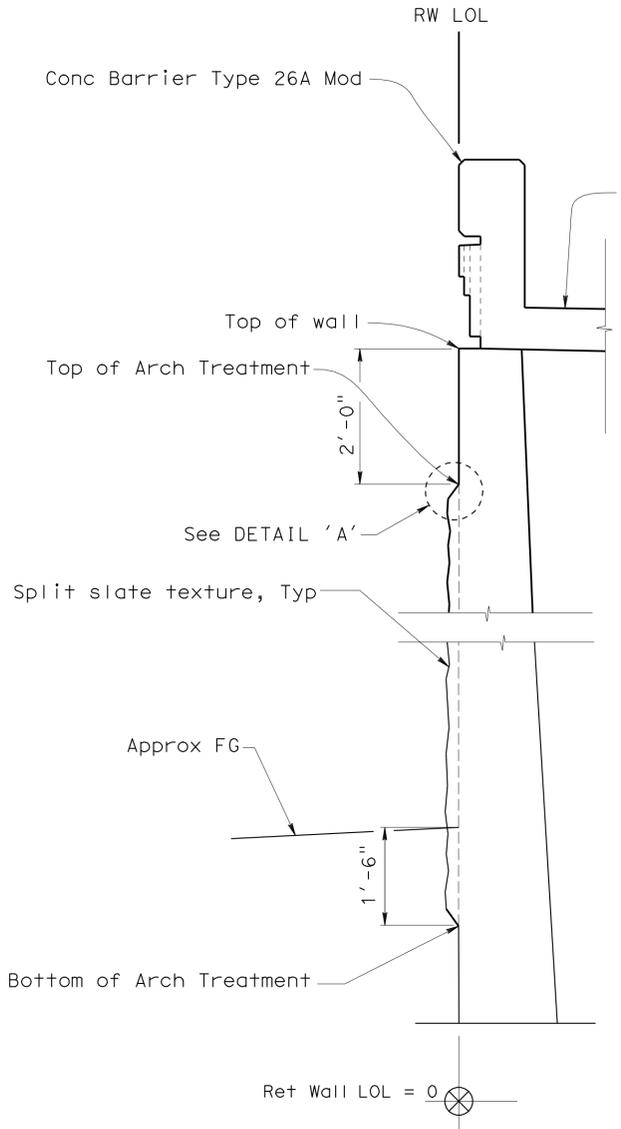
USERNAME => hrmartok DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	555	602

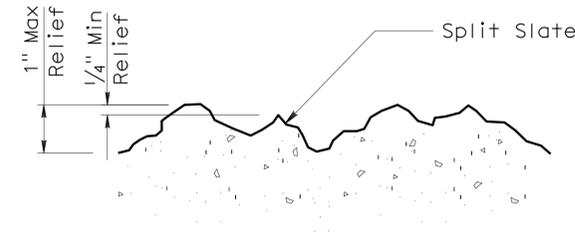
Phu Vuong Inyang 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

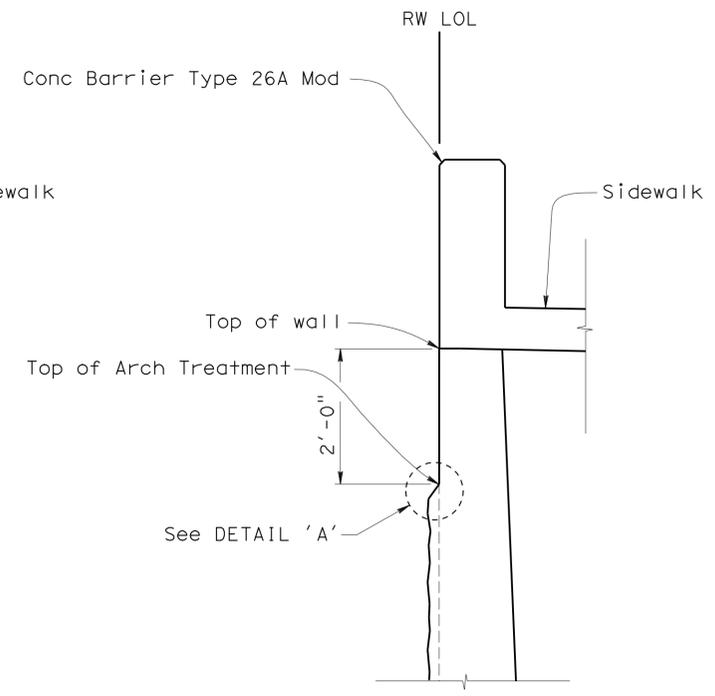
Note: All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL, typical



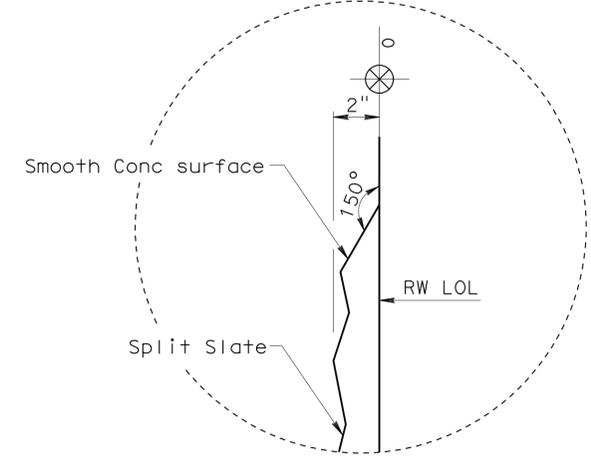
SECTION B-B



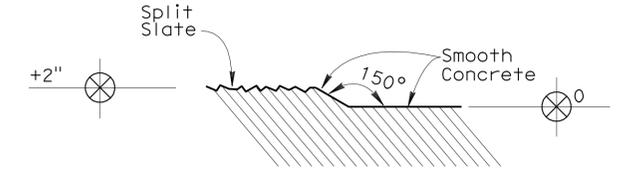
SPLIT SLATE TEXTURE



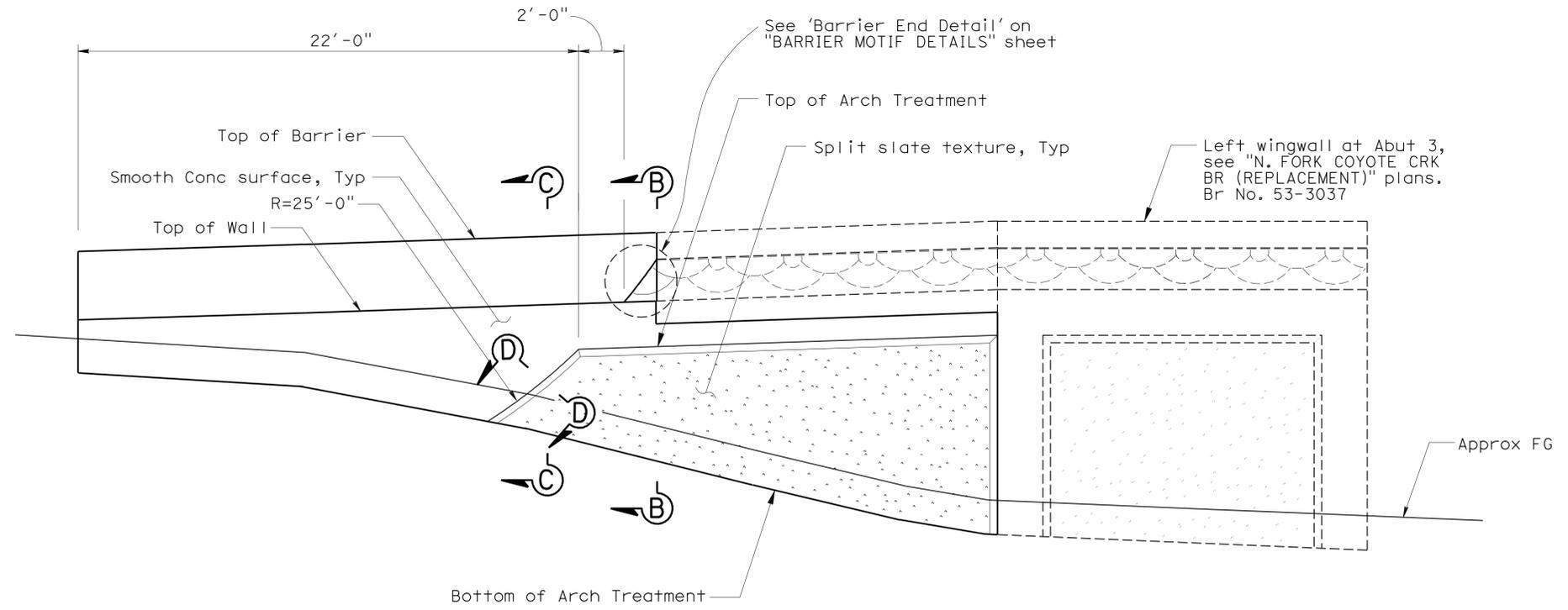
SECTION C-C



DETAIL 'A'



SECTION D-D



ELEVATION

NO SCALE

DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia
DETAILS	BY P. Tong	CHECKED Javier Chavez
QUANTITIES	BY Ubong Inyang	CHECKED Jaime Ramirez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	53E0155
POST MILE	2.43

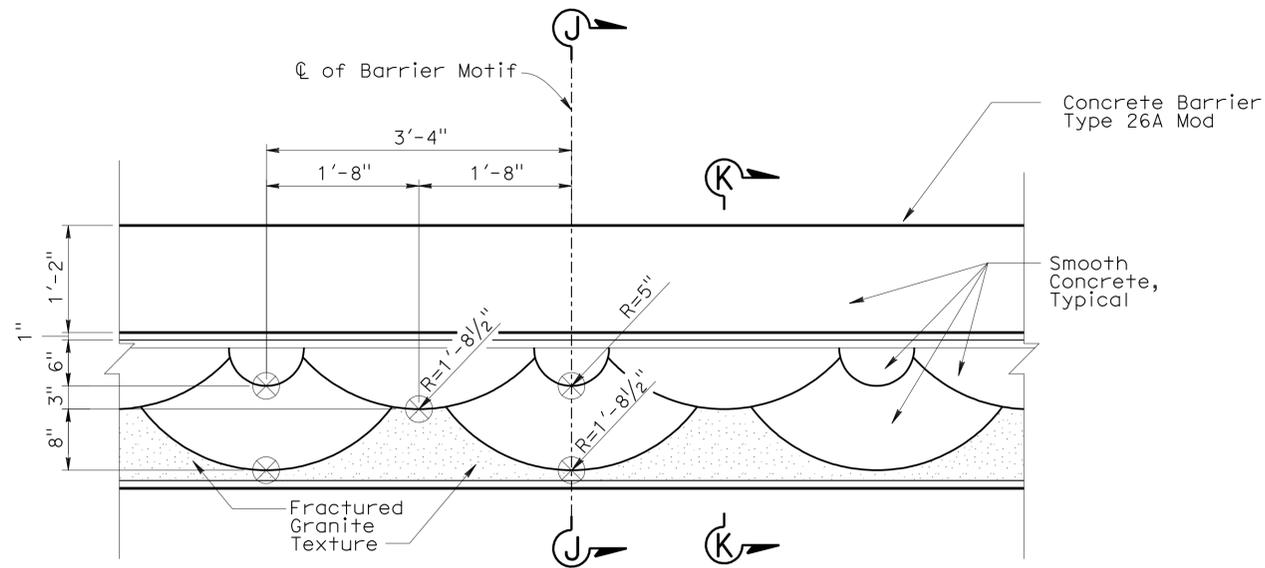
RETAINING WALL NO. 5
ARCHITECTURAL TREATMENT

REVISION DATES					SHEET	OF
3-06-10	4-21-10	5-08-10	5-02-10	5-26-10	3	4

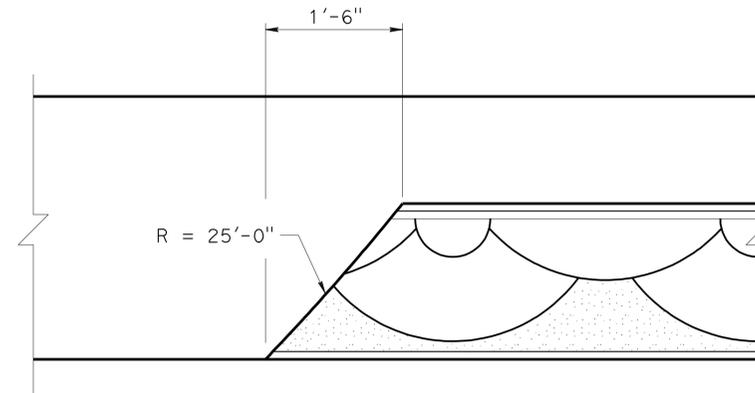
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	556	602

Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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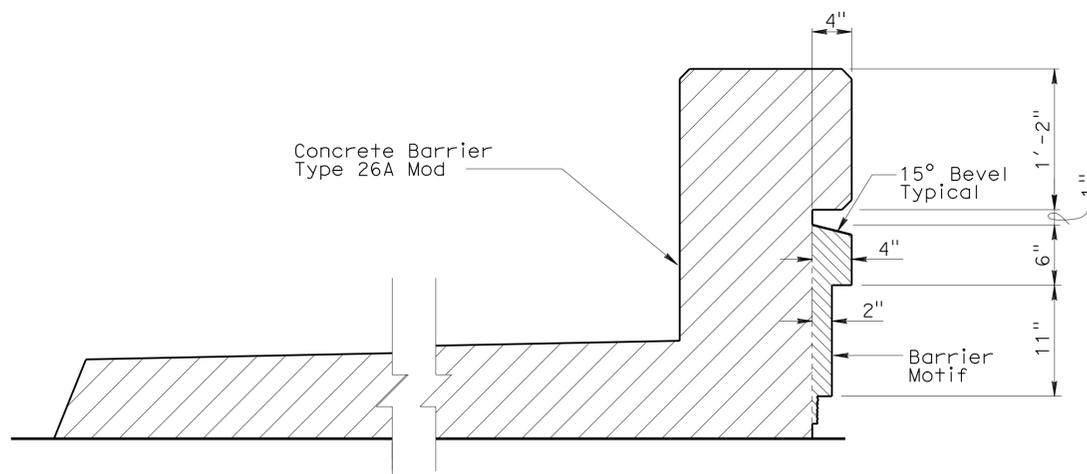
REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



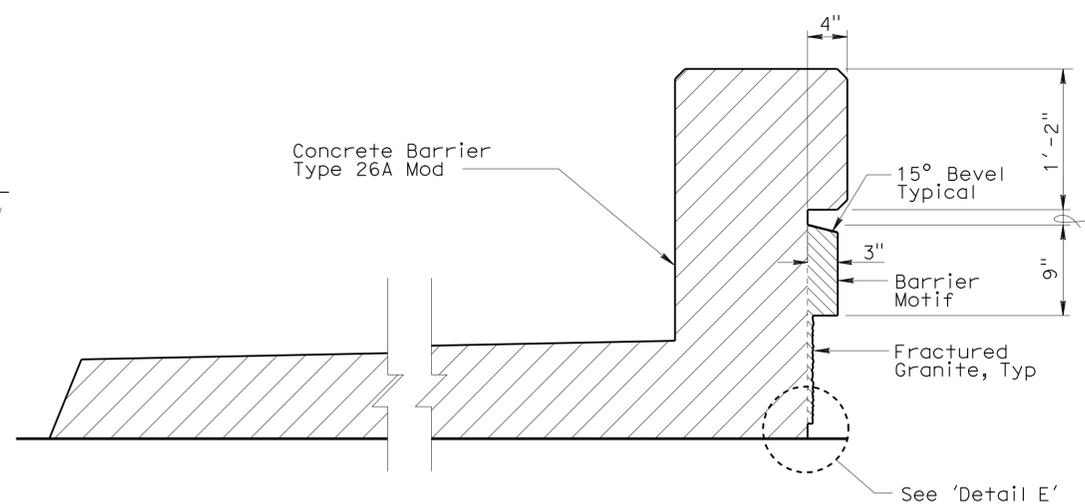
ELEVATION - BARRIER MOTIF
No Scale



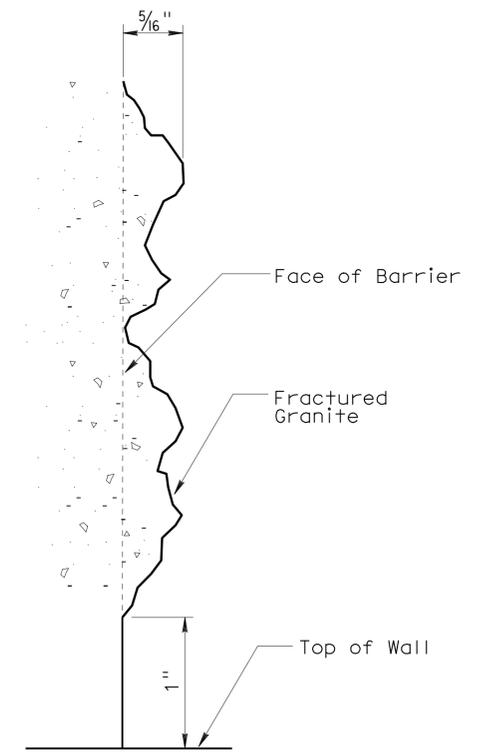
BARRIER END DETAIL
No Scale



SECTION J-J
No Scale



SECTION K-K
No Scale



DETAIL E
No Scale

DESIGN BY Javier Chavez CHECKED Isaac Tasabia DETAILS BY Pauline Tong CHECKED Javier Chavez QUANTITIES BY Ubong Inyang CHECKED Jaime Ramirez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0155 POST MILE 2.43	RETAINING WALL NO. 5 BARRIER MOTIF DETAILS
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 3-28-10, 4-21-10, 5-08-10, 5-26-10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	557	602

3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

QUANTITIES

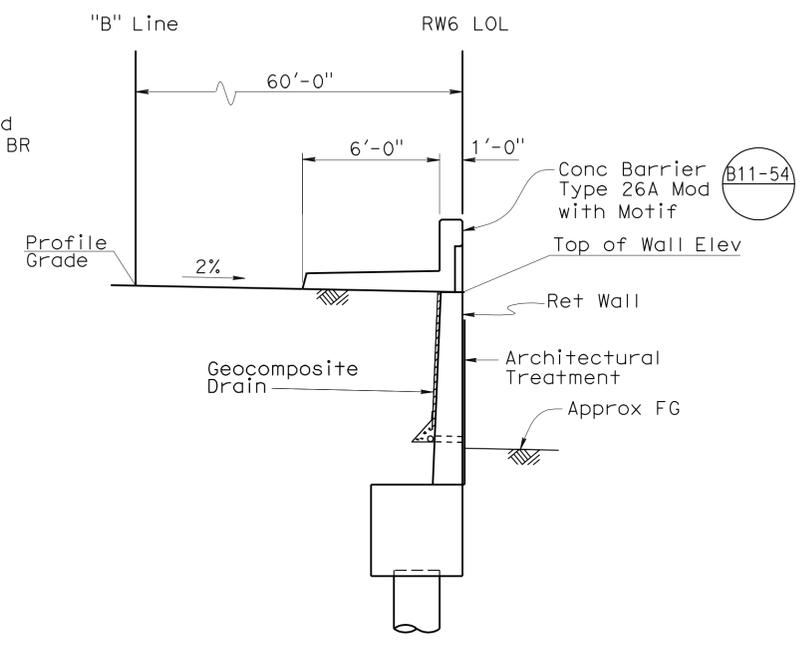
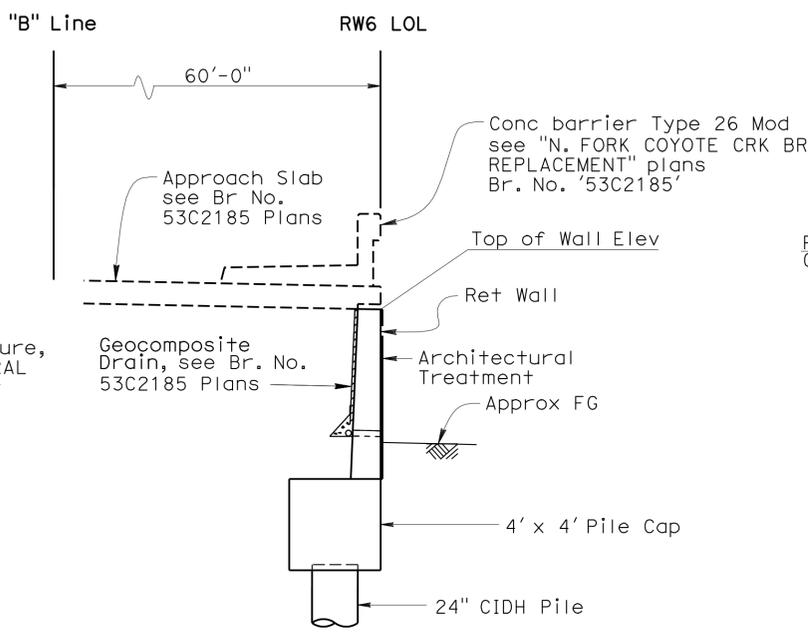
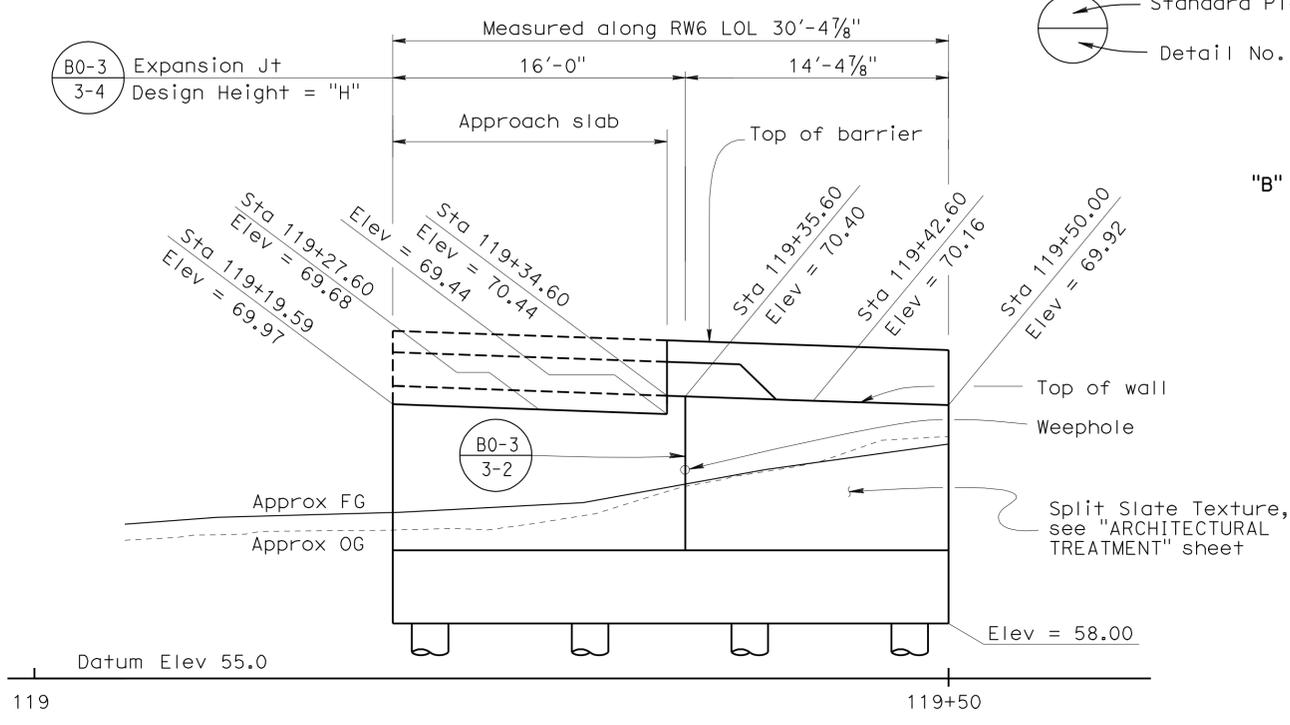
STRUCTURE EXCAVATION (RETAINING WALL)	50	CY
STRUCTURE BACKFILL (RETAINING WALL)	44	CY
24" CAST-IN-DRILLED-HOLE CONCRETE PILING	193	LF
STRUCTURAL CONCRETE, RETAINING WALL	28	CY
ARCHITECTURAL TREATMENT	120	SOFT
ARCHITECTURAL SURFACE (BARRIER)	5	SOFT
BAR REINFORCING STEEL (RETAINING WALL)	9,900	LB
CONCRETE BARRIER (TYPE 26 MODIFIED)	15	LF

STANDARD PLANS
Dated May 2006

- A10A ACRONYMS AND ABBREVIATIONS (sheet 1 of 2)
- A10B ACRONYMS AND ABBREVIATIONS (sheet 2 of 2)
- A62B LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL- BRIDGE SURCHARGE AND WALL
- B0-3 BRIDGE DETAILS
- B2-3 16" AND 24" CAST-IN-DRILLED-HOLE CONCRETE PILE
- B3-8 RETAINING WALL DETAILS NO. 1
- B11-54 CONCRETE BARRIER TYPE 26

INDEX TO PLANS

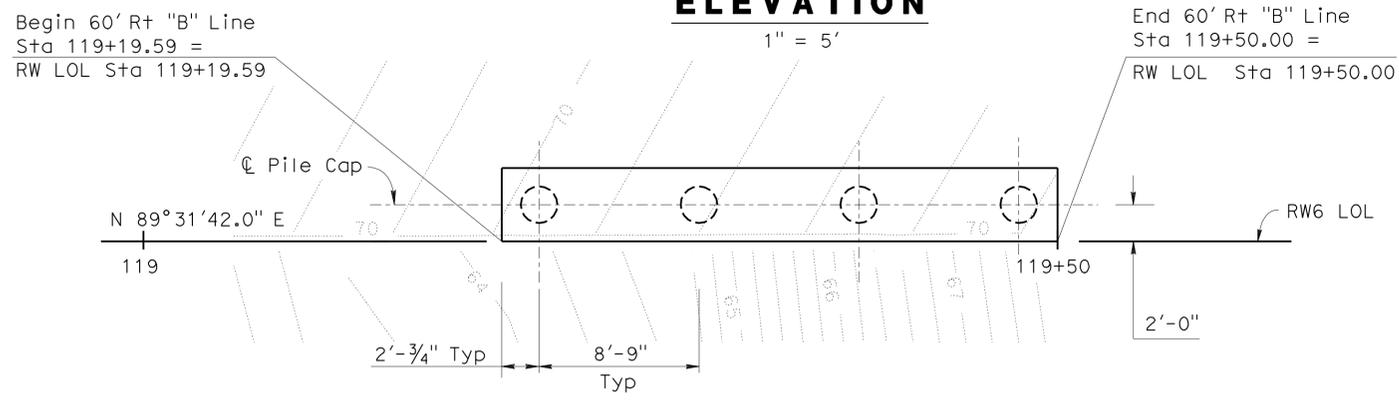
Sheet No.	Title
1	GENERAL PLAN
2	DETAILS
3	ARCHITECTURAL TREATMENT
4	BARRIER MOTIF DETAILS



ELEVATION
1" = 5'

SECTION AT APPROACH SLAB
1/4" = 1'-0"

TYPICAL SECTION
1/4" = 1'-0"



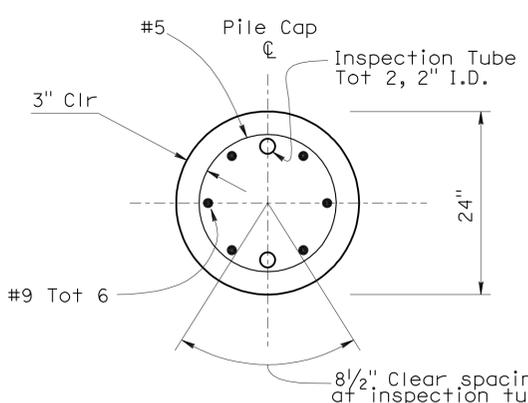
DESIGN DATA

- f_c = 1,450 psi
- f'_c = 3,600 psi
- f_s = 24,000 psi
- n = 10
- earth = 120 psi
- 240 psi surcharge (B3-8)

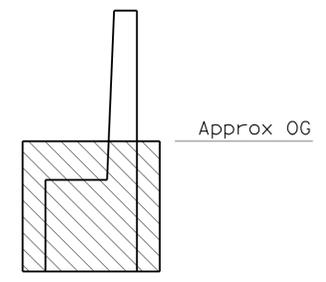
Ramin Rashedi DESIGN ENGINEER	DESIGN	BY Ubong Inyang	CHECKED Mark Okimura	LAYOUT	BY Ubong Inyang	CHECKED Mark Okimura	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	53E0156	RETAINING WALL NO. 6 GENERAL PLAN	
	DETAILS	BY Thomas Bittermann	CHECKED Mark Okimura		BY Theresa Nedwick	CHECKED Theresa Nedwick			POST MILE	2.43		
	QUANTITIES	BY Ubong Inyang	CHECKED Bill Kemp	SPECIFICATIONS	BY Theresa Nedwick	CHECKED Theresa Nedwick						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS								CU 07227 EA 215911	REVISION DATES			SHEET 1 OF 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	558	602

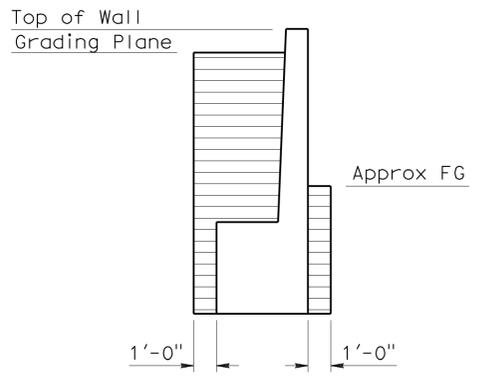
REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 6-27-11
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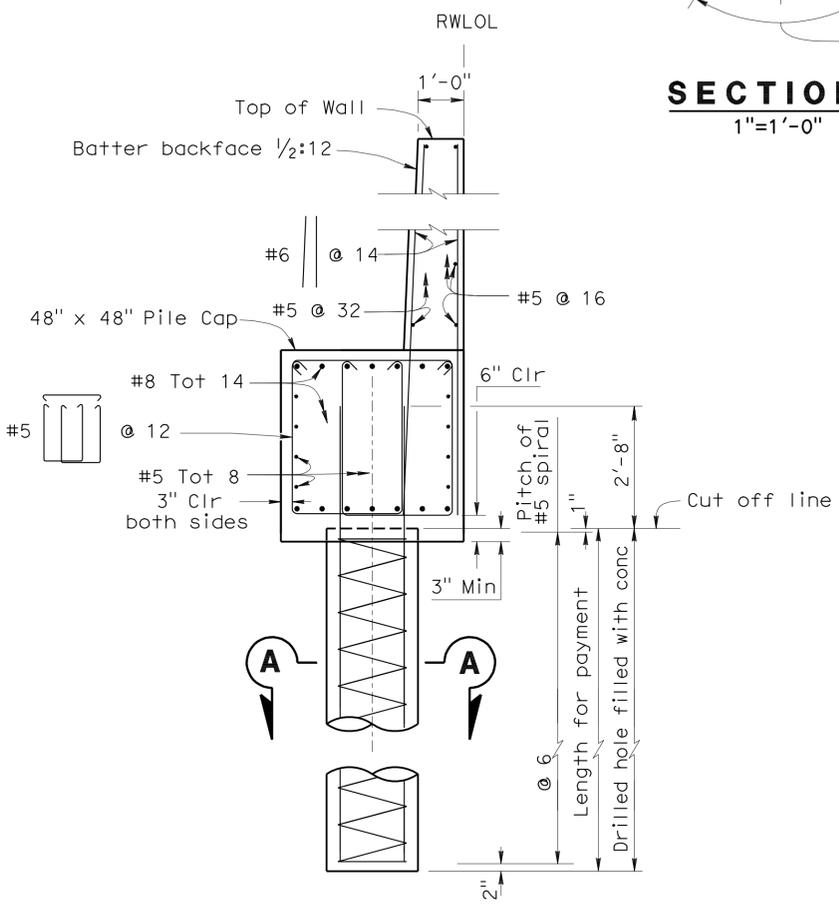
SECTION A-A
1"=1'-0"



EXCAVATION
No Scale

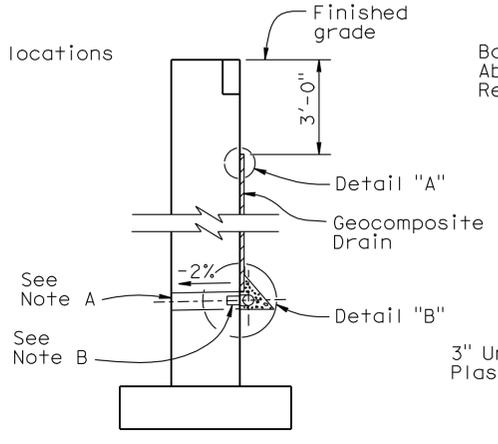


BACKFILL
No Scale

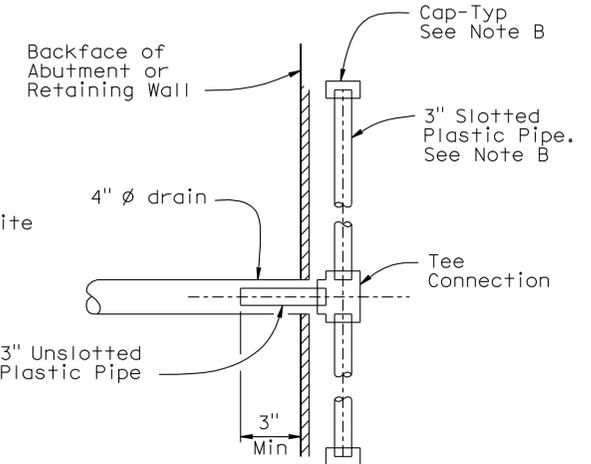


REINFORCEMENT SECTION
1/2"=1'-0"

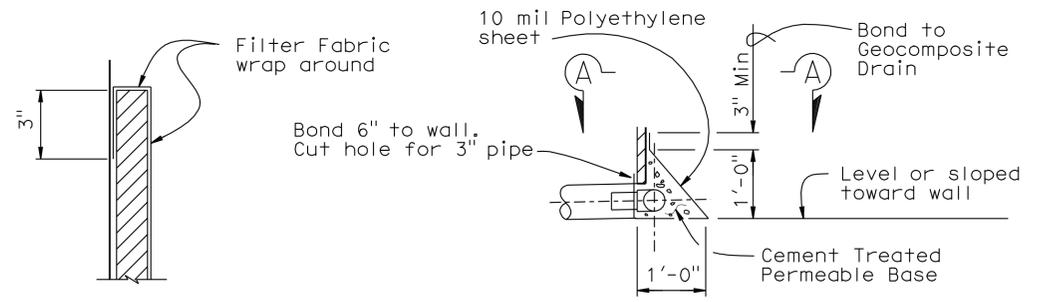
- NOTES:**
- Pile Tip is at 10' elevation.
 - For additional Notes and Details not shown see, "STANDARD PLAN B2-3"
 - Design Capacity = 200 Kips
For Details not shown see **A 62 B**



WALL SECTION



SECTION A-A

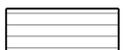


DETAIL "A"

DETAIL "B"

WEEP HOLE AND GEOCOMPOSITE DRAIN

- Notes:
- Exposed wall drains shall be located 3"± above finished grade.
 - Geocomposite drain, cement treated permeable base, and 3"Ø slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4"Ø drain.
 - Connect the low end of plastic pipe to the main outlet pipe as applicable.

 Indicates limits of payment for Structure Excavation (Retaining Wall)
 Indicates limits of payment for Structure Backfill (Retaining Wall)

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Ubong Inyang	CHECKED Mark Okimura	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 6		
	DETAILS	BY Thomas Bittermann	CHECKED Mark Okimura			53E0156	DETAILS		
	QUANTITIES	BY Ubong Inyang	CHECKED Bill Kemp			POST MILE	2.43	SHEET	OF
								2	4

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 CU 07227 EA 215911
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 11-18-09, 2/4/10, 3-08-10, 3-11-10, 4/28/10, 5/04/10, 6/02/10
 USERNAME => fmrortok DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:06
 FILE => rw6-b-details.dgn

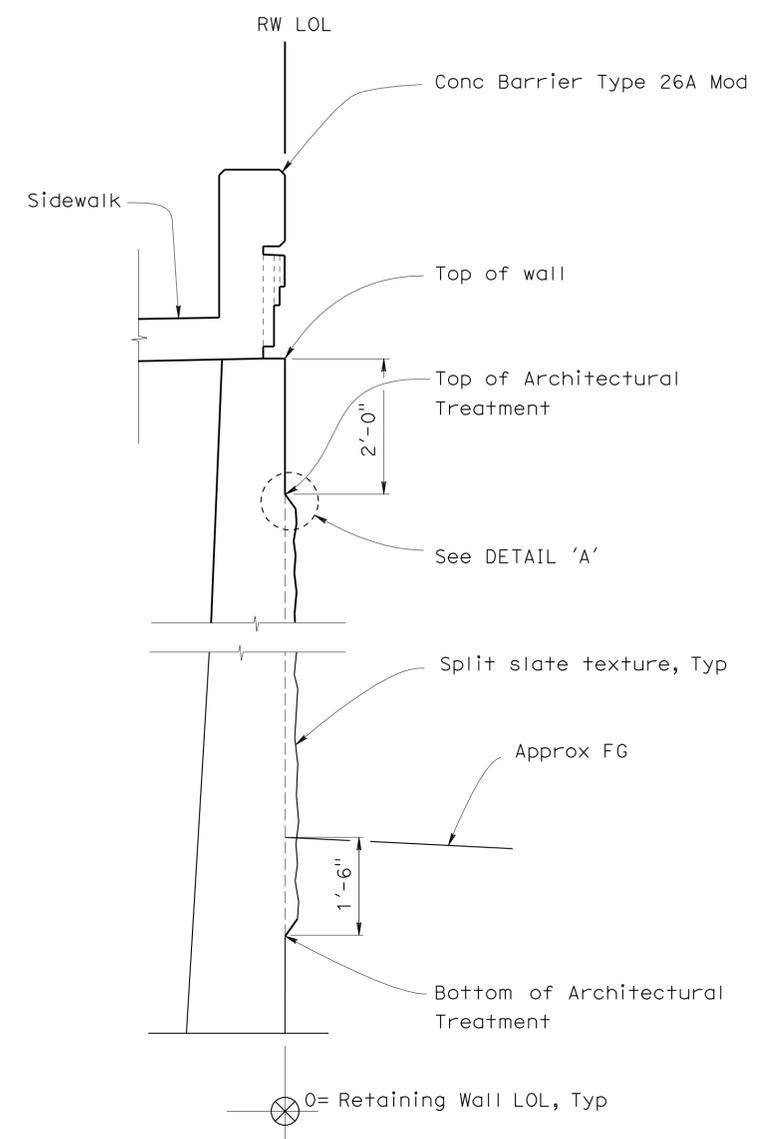
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	559	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

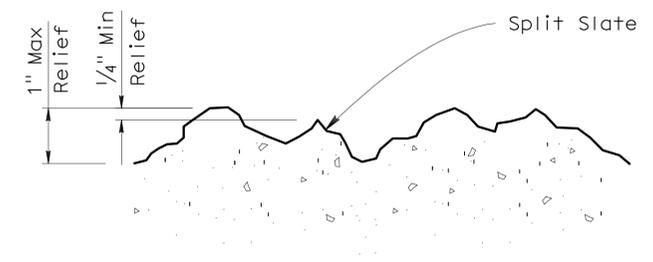
6-27-11
 PLANS APPROVAL DATE

Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

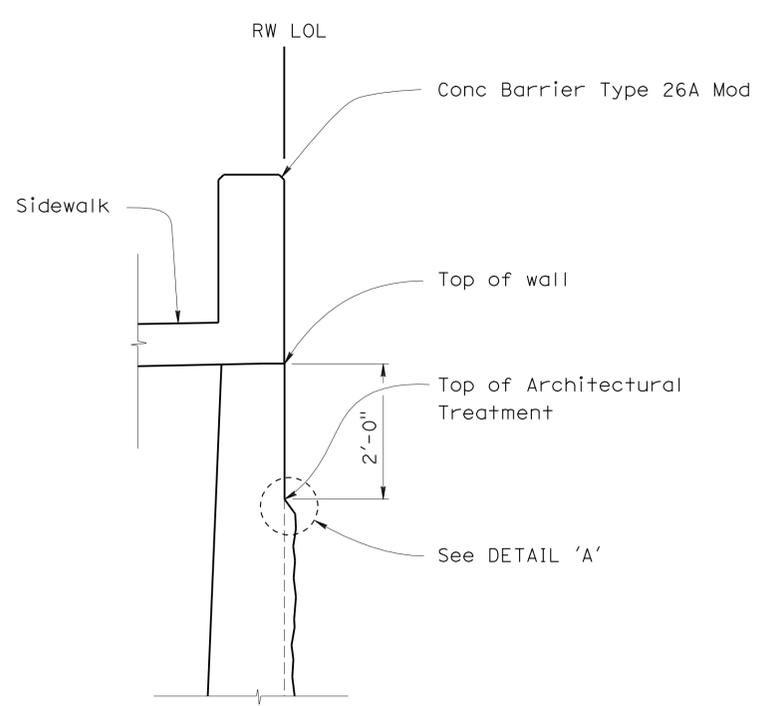
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SECTION B-B

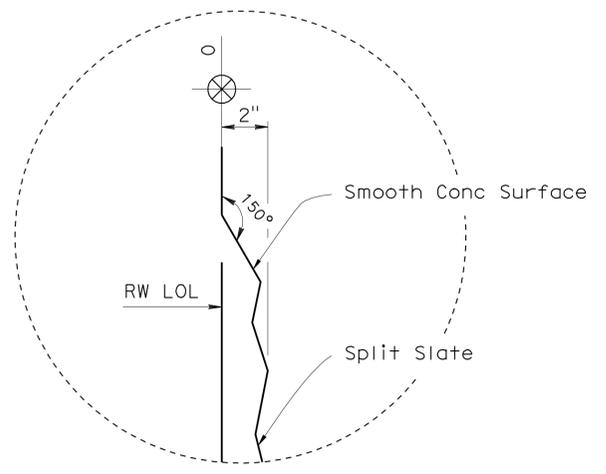


SPLIT SLATE TEXTURE



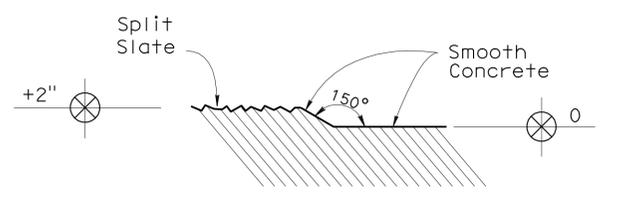
SECTION C-C

NOTE: ALL REFERENCE TO SURFACE DIMENSIONS OF WALL DETAILS ARE FROM DATUM 0 = RETAINING WALL LOL, TYPICAL

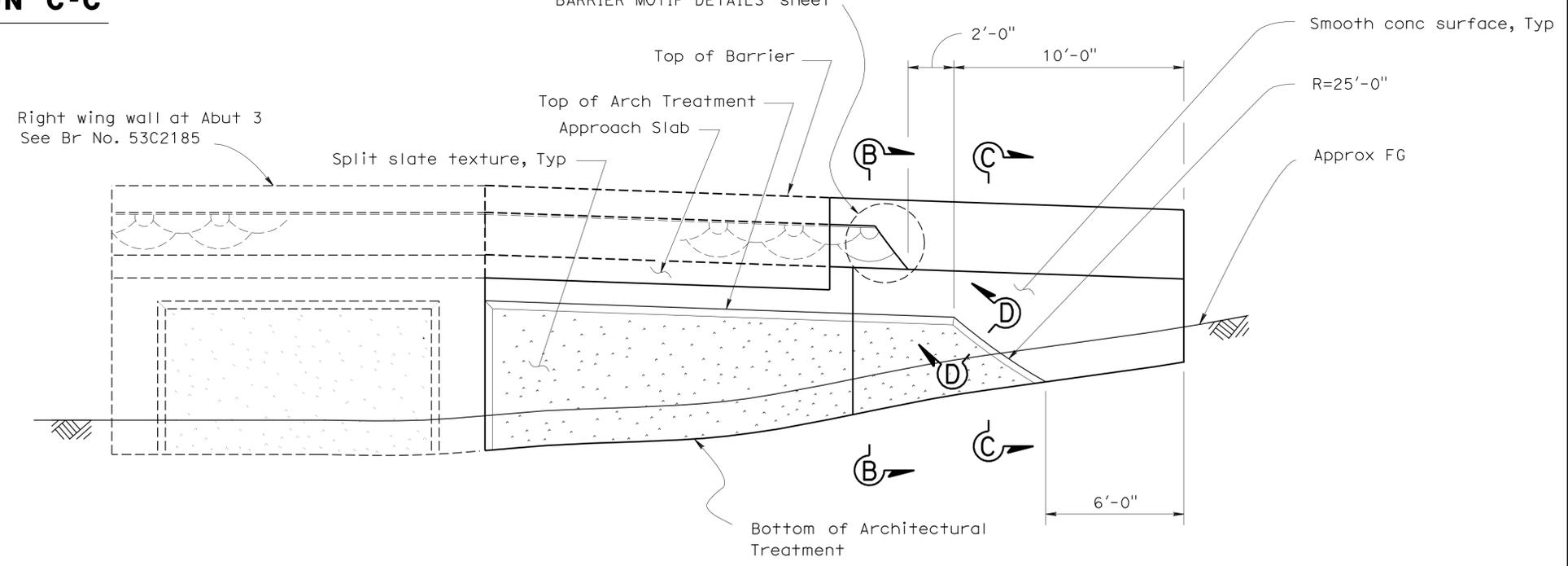


DETAIL 'A'

See 'Barrier End Detail' on "BARRIER MOTIF DETAILS" sheet



SECTION D-D



ELEVATION

NO SCALE

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Javier Chavez	CHECKED Issac Tasabia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 6			
	DETAILS	BY Pauline Tong	CHECKED Javier Chavez			53E0156	ARCHITECTURAL TREATMENT			
	QUANTITIES	BY Ubong Inyang	CHECKED Bill Kemp			POST MILE 2.43				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES				SHEET 3 OF 4

USERNAME => hmar10k DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:11

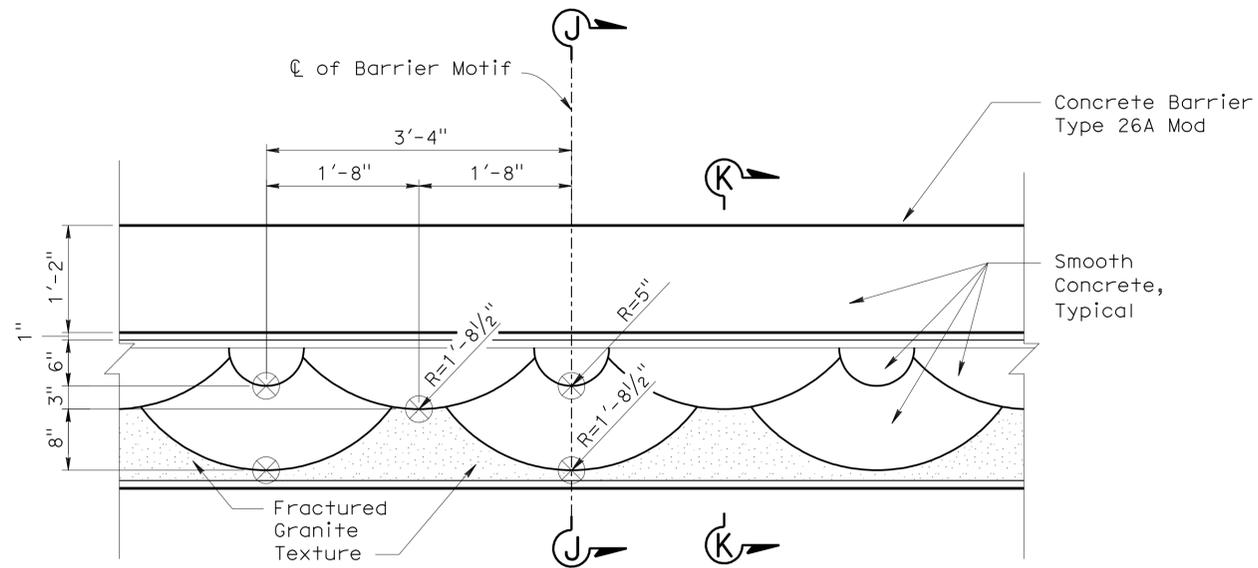
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	560	602

Phu Vuong Inyang 3-2-11
 REGISTERED CIVIL ENGINEER DATE

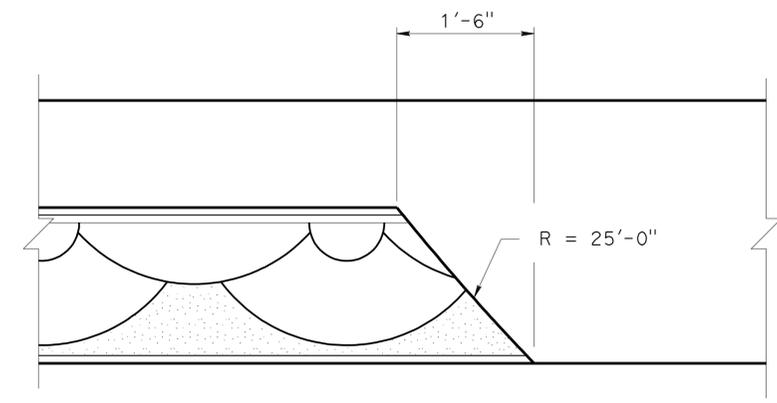
6-27-11
 PLANS APPROVAL DATE

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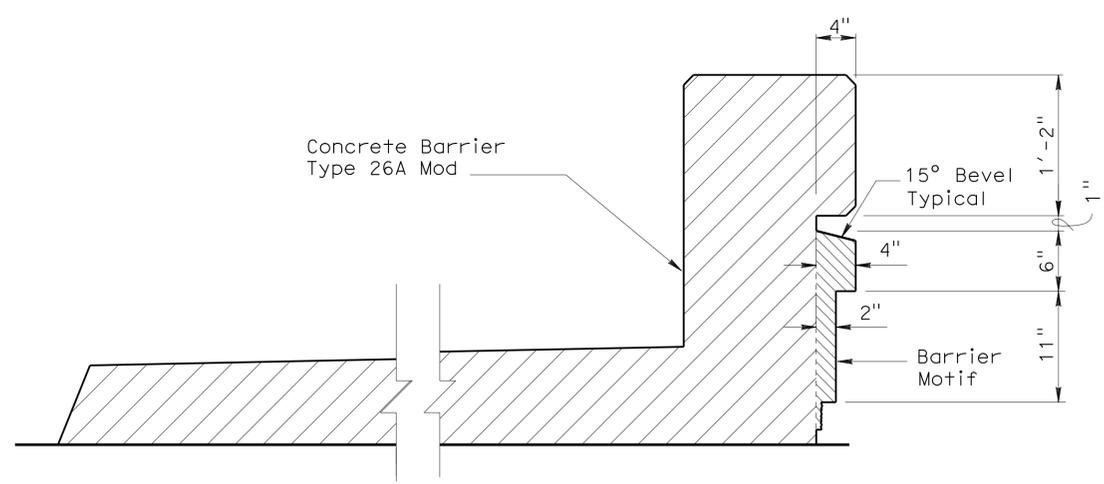
REGISTERED PROFESSIONAL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



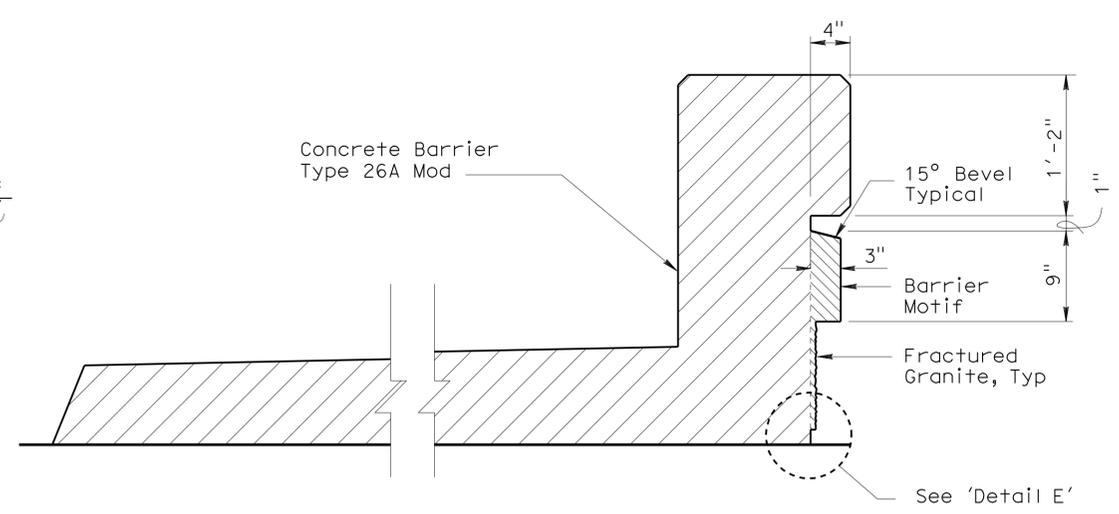
ELEVATION - BARRIER MOTIF
No Scale



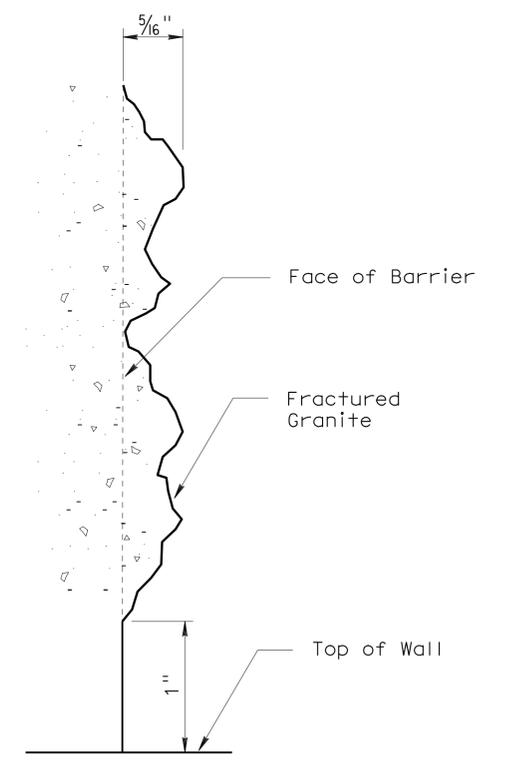
BARRIER END DETAIL
No Scale



SECTION J-J
No Scale



SECTION K-K
No Scale



DETAIL E
No Scale

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Javier Chavez	CHECKED Issac Tasabia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 6			
	DETAILS	BY Pauline Tong	CHECKED Javier Chavez			53E0156	BARRIER MOTIF DETAILS			
	QUANTITIES	BY Ubong Inyang	CHECKED Bill Kemp			2.43	REVISION DATES			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES				SHEET 4 OF 4

USERNAME => hrmartjak DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	561	602

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REGISTERED PROFESSIONAL ENGINEER
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 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

QUANTITIES

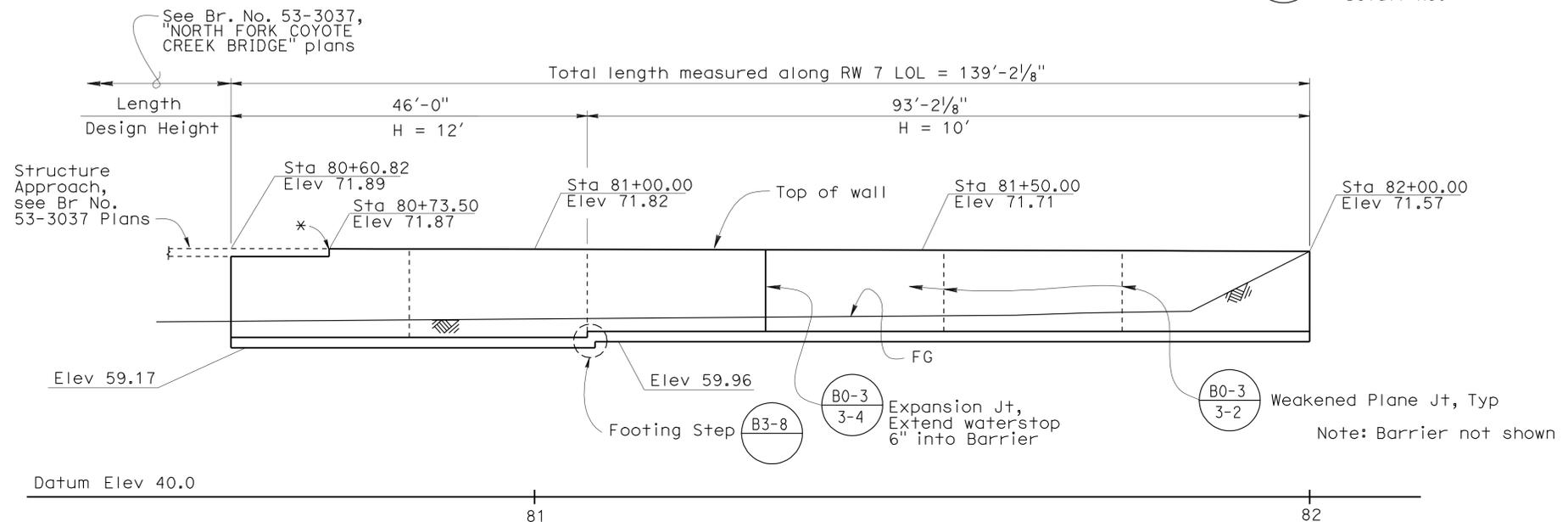
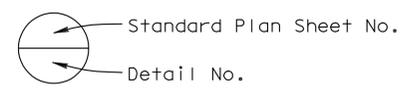
STRUCTURE EXCAVATION (RETAINING WALL)	184	CY
STRUCTURE BACKFILL (RETAINING WALL)	256	CY
STRUCTURAL CONCRETE, RETAINING WALL	118	CY
ARCHITECTURAL TREATMENT	1,035	SQFT
ARCHITECTURAL SURFACE (BARRIER)	185	SQFT
BAR REINFORCING STEEL (RETAINING WALL)	9,500	LB
CONCRETE BARRIER (TYPE 736)	139	LF

INDEX TO PLANS

Sheet No.	Title
1	GENERAL PLAN
2	RETAINING WALL DETAILS
3	ARCHITECTURAL TREATMENT DETAILS
4	BARRIER MOTIF DETAILS

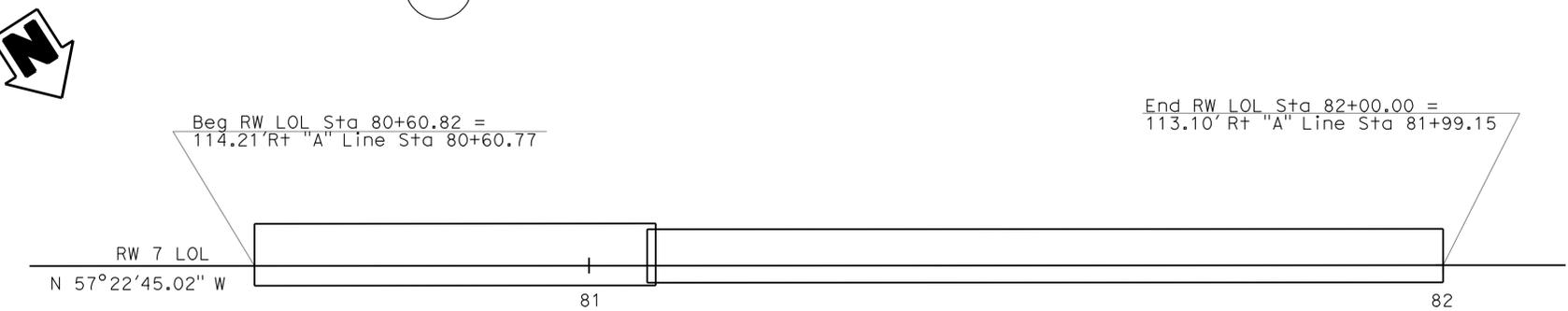
STANDARD PLANS
Dated May 2006

A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL- BRIDGE SURCHARGE AND WALL
B0-3	BRIDGE DETAILS
B3-1	RETAINING WALL TYPE 1
B3-8	RETAINING WALL DETAILS NO. 1
B11-56	CONCRETE BARRIER TYPE 736



ELEVATION
1" = 10'

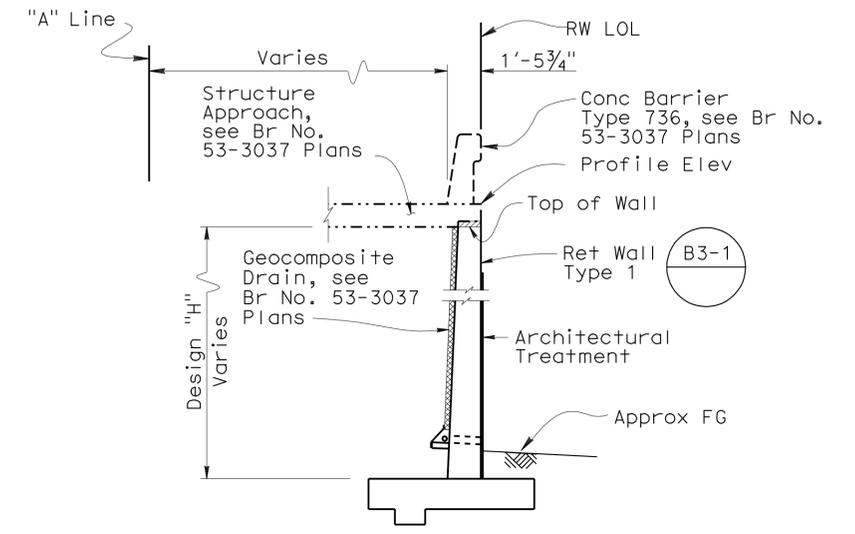
* Provide 1/2" open joint in Barrier. Provide waterstop from (B0-3)



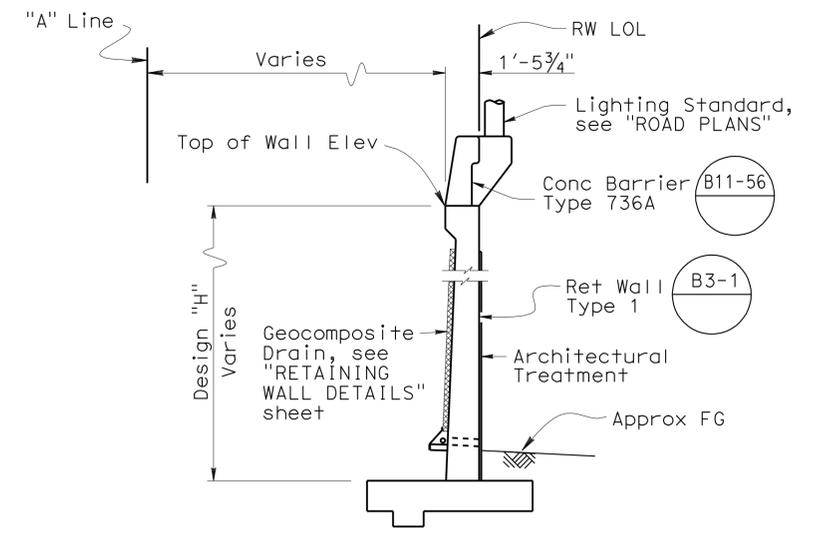
PLAN
1" = 10'

Note: "A" Line not shown

"A" Line
R=20,000'
Δ=-4°38'45.89"
T=811.339'
L=1621.788'



TYPICAL SECTION AT STRUCTURE APPROACH
1/4"=1'-0"



TYPICAL SECTION B3-8
1/4"=1'-0"

Ramin Rashedi DESIGN ENGINEER	DESIGN	BY Jongkoo Jeon	CHECKED Mark Okimura	LAYOUT	BY Jongkoo Jeon	CHECKED Mark Okimura	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RW7	RETAINING WALL NO. 7 GENERAL PLAN
	DETAILS	BY Bruno Jenko	CHECKED Mark Okimura		BY Jongkoo Jeon	CHECKED Mark Okimura			POST MILE	1.47	
	QUANTITIES	BY Antonio Picazo	CHECKED Loren Goldthwait		SPECIFICATIONS	BY Theresa Nedwick			PLANS AND SPECS COMPARED Theresa Nedwick	REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS								CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 1 OF 4

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.07-24-06) FILE => rw7-a-gp01.dgn

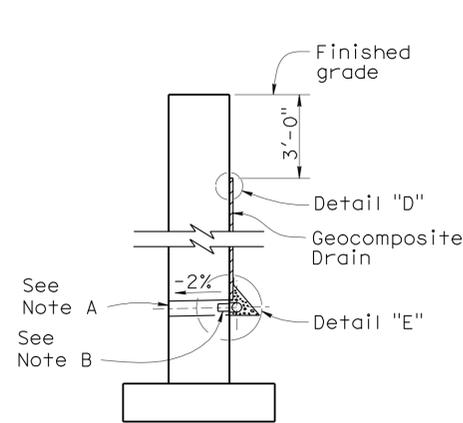
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	562	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

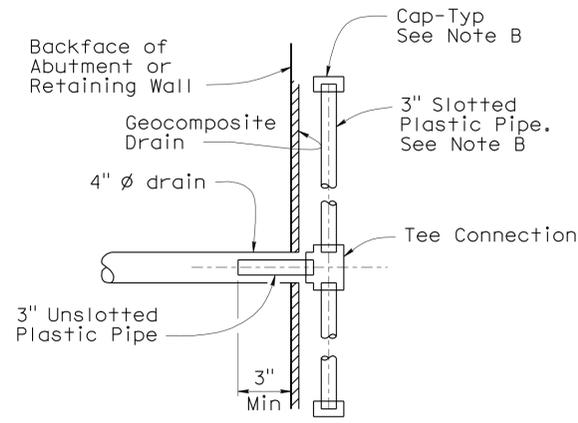
6-27-11
 PLANS APPROVAL DATE

No. 60358
 Exp. 6-30-12
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 STATE OF CALIFORNIA

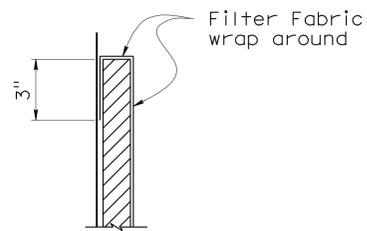
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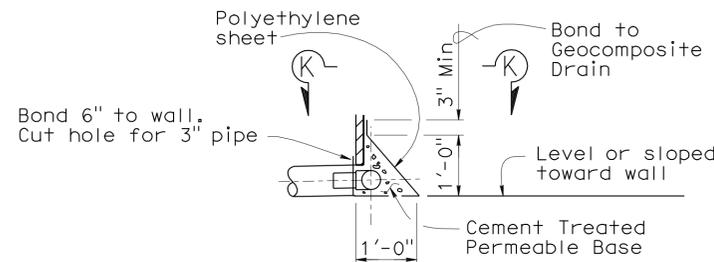
WALL SECTION



SECTION K-K



DETAIL "D"



DETAIL "E"

WEEP HOLE AND GEOCOMPOSITE DRAIN

NO SCALE

Notes:

- A. 4" Ø drains at intermediate sag points and at 25'-0" center to center. For walls adjacent to sidewalks or curbs, provide 4" Ø cast iron or asbestos cement pipe under the sidewalk to discharge through curb face. Exposed wall drains shall be located 3" ± above finished grade.
- B. Geocomposite drain, cement treated permeable base, and 3" Ø slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" Ø drain.
- C. Connect the low end of plastic pipe to the main outlet pipe as applicable.

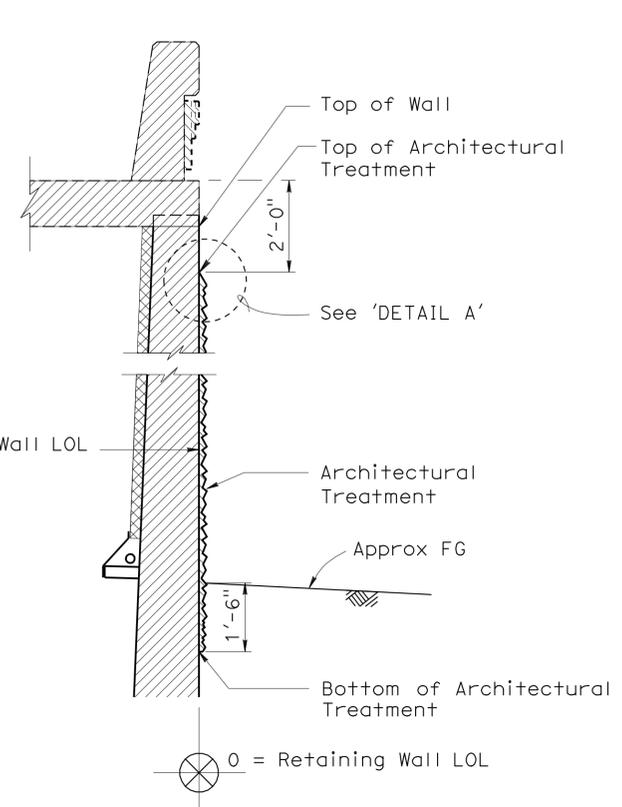
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Jongkoo Jeon	CHECKED Mark Okimura	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL 7	
	DETAILS	BY Pauline Tong	CHECKED Mark Okimura			RW7		
	QUANTITIES	BY Antonio Picazo	CHECKED Loren Goldthwait			POST MILE 1.47		RETAINING WALL DETAILS
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 07227 EA 215911	REVISION DATES		SHEET 2 OF 4

USERNAME => hrmartjak DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:06

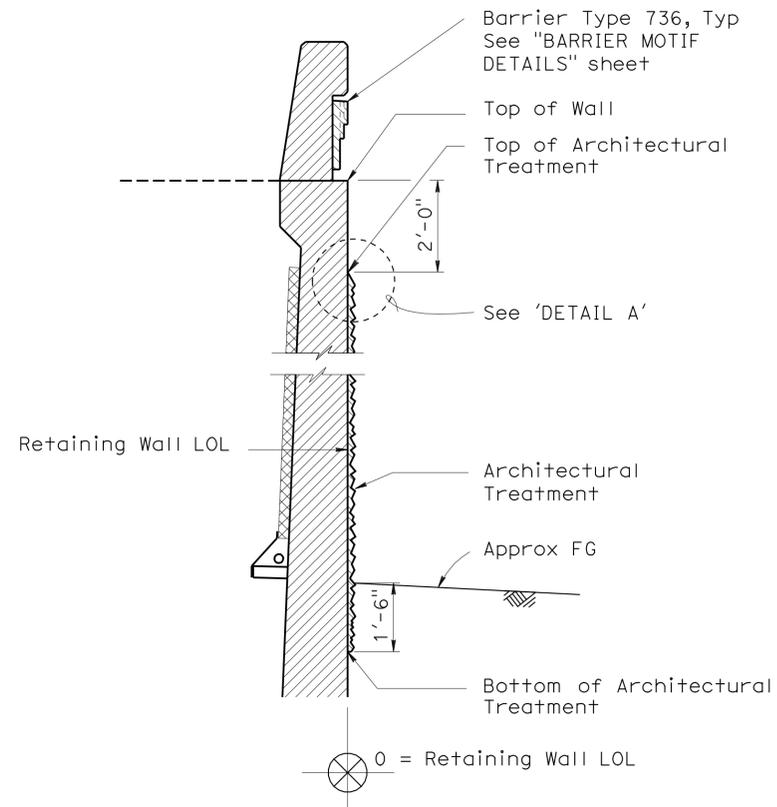
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	563	602

REGISTERED CIVIL ENGINEER
 DATE 3-2-11
 PLANS APPROVAL DATE 6-27-11
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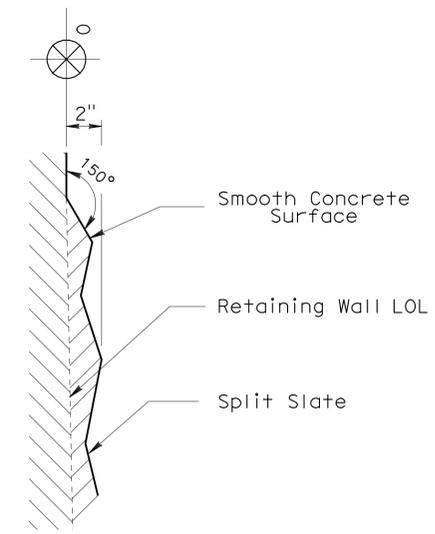
REGISTERED PROFESSIONAL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



SECTION A-A
1/2"=1'-0"



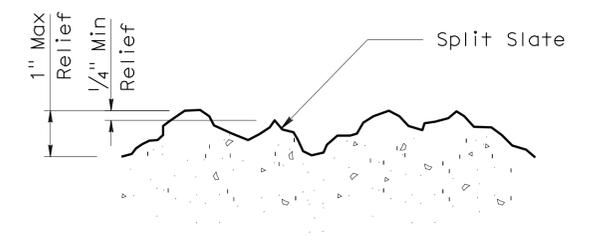
SECTION B-B
1/2"=1'-0"



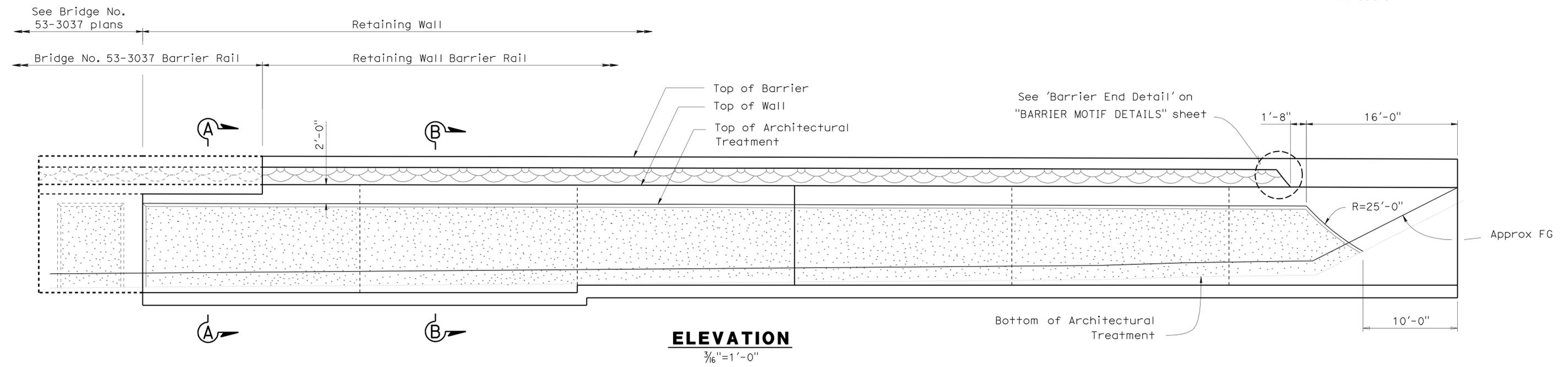
DETAIL A
No Scale

Notes:
All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL

- Legend:
- Split Slate Texture Concrete Surface
 - Smooth Concrete Surface



SPLIT SLATE TEXTURE
No Scale



ELEVATION
3/16"=1'-0"

DESIGN	BY Javier Chavez	CHECKED Issac Tasabia
DETAILS	BY Pauline Tong	CHECKED Javier Chavez
QUANTITIES	BY Antonio Picazo	CHECKED Loren Goldthwait

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

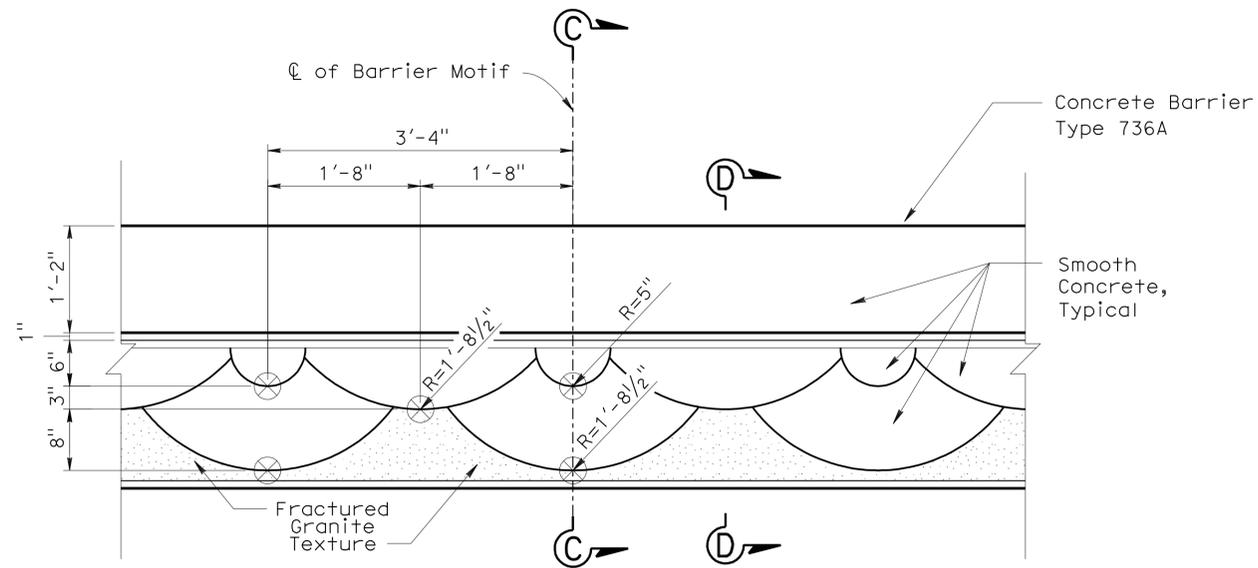
BRIDGE NO.	RW7
POST MILE	1.47

RETAINING WALL 7
ARCHITECTURAL TREATMENT DETAILS

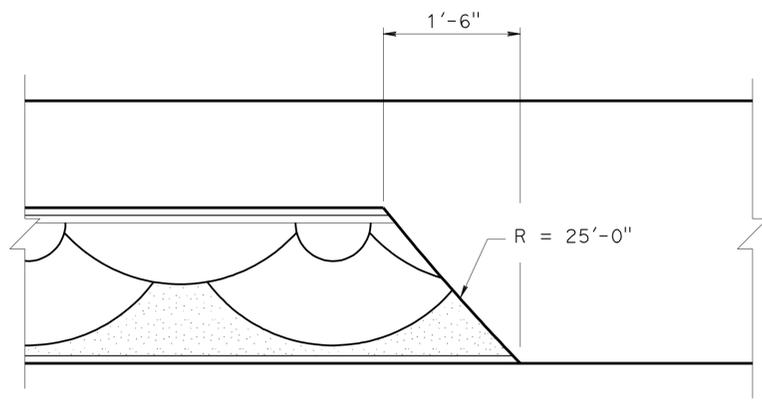
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07	LA	5	1.2/2.1	564	602

Phu Vuong Tong 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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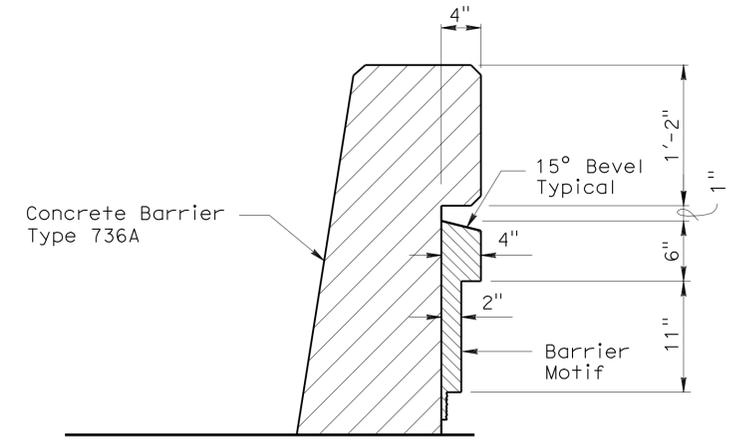
REGISTERED PROFESSIONAL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



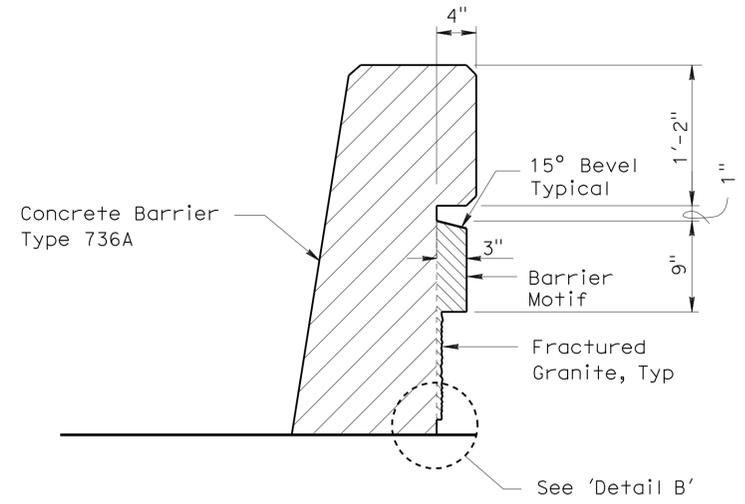
ELEVATION - BARRIER MOTIF
No Scale



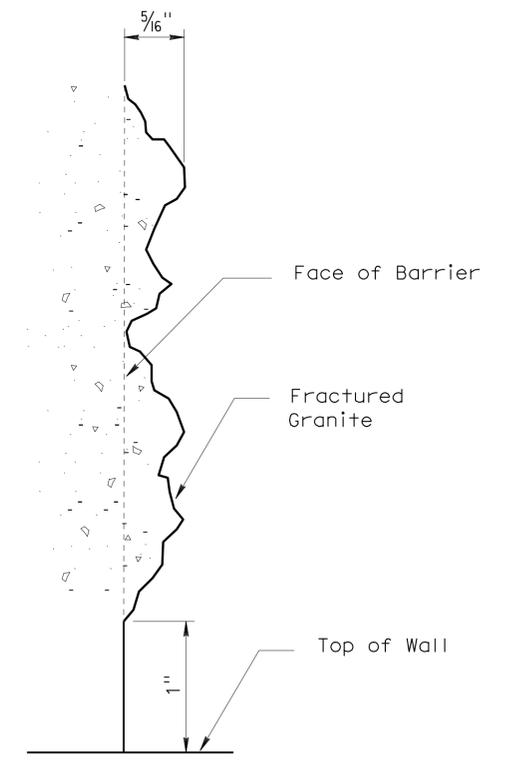
BARRIER END DETAIL
No Scale



SECTION C-C
No Scale



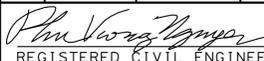
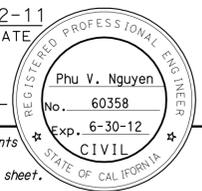
SECTION D-D
No Scale



DETAIL B
No Scale

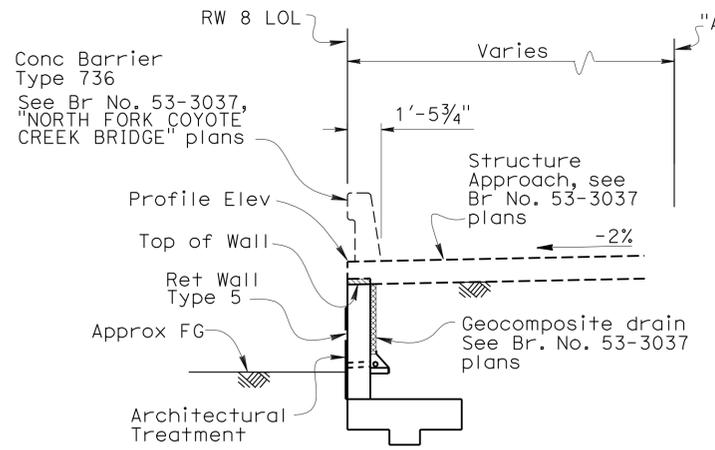
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Javier Chavez	CHECKED Issac Tasabia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL 7 BARRIER MOTIF DETAILS		
	DETAILS	BY Pauline Tong	CHECKED Javier Chavez			RW7			
	QUANTITIES	BY Antonio Picazo	CHECKED Loren Goldthwait			POST MILE 1.47			
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 4 OF 4

USERNAME => hmgp11n DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:42

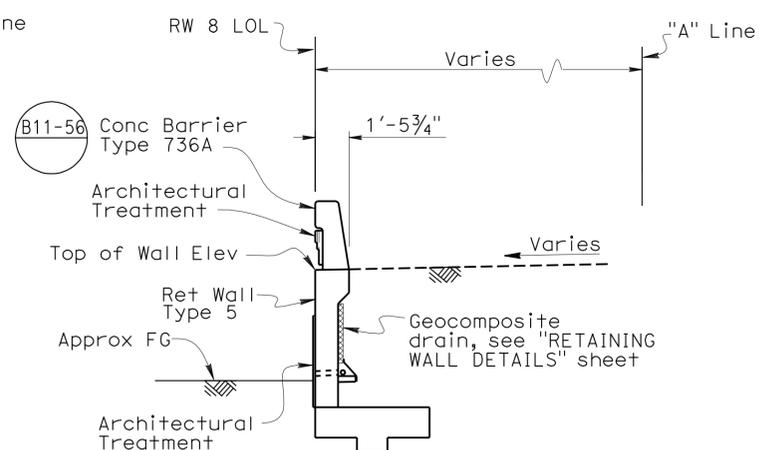
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	565	602
 REGISTERED CIVIL ENGINEER DATE 3-2-11					
PLANS APPROVAL DATE 6-27-11					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

QUANTITIES

STRUCTURE EXCAVATION (RETAINING WALL)	646	CY
STRUCTURE BACKFILL (RETAINING WALL)	829	CY
STRUCTURAL CONCRETE, RETAINING WALL	407	CY
ARCHITECTURAL TREATMENT	259	SQFT
ARCHITECTURAL SURFACE (BARRIER)	131	SQFT
BAR REINFORCING STEEL (RETAINING WALL)	24,500	LB
CONCRETE BARRIER (TYPE 736)	746	LF

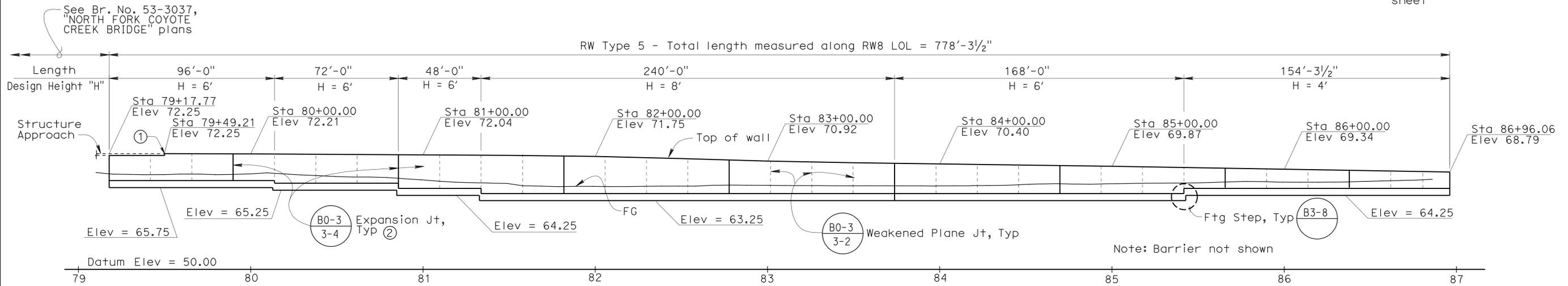


TYPICAL SECTION AT STRUCTURE APPROACH (B3-7)
1/4"=1'-0"



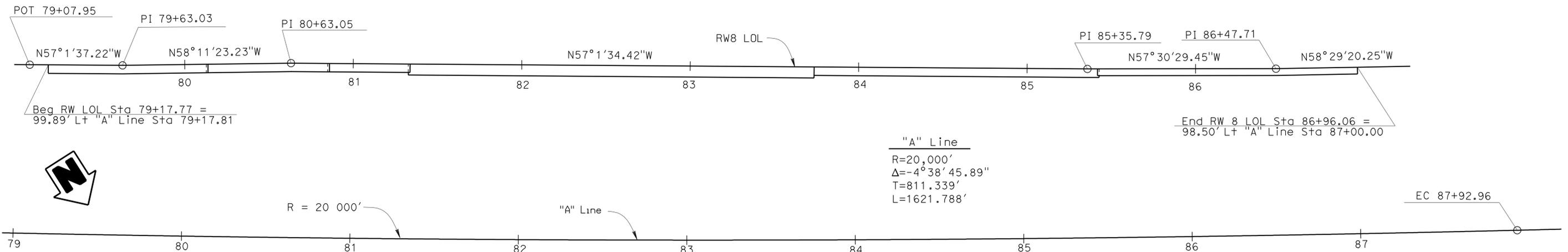
TYPICAL SECTION (B3-7, B3-8)
1/4"=1'-0"

- Notes:
- Provide 1/2" open joint in Barrier. Provide Waterstop from (B0-3)
 - Expand Waterstop 6" into Barrier
 - For 'Index to Plans' and 'Standard Plans', see "RETAINING WALL DETAILS" sheet



DEVELOPED MIRROR ELEVATION

Horiz 1"=30'
Vert 1"=10'



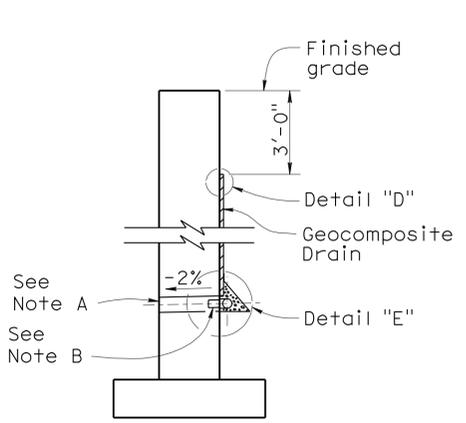
PLAN

1"=30'

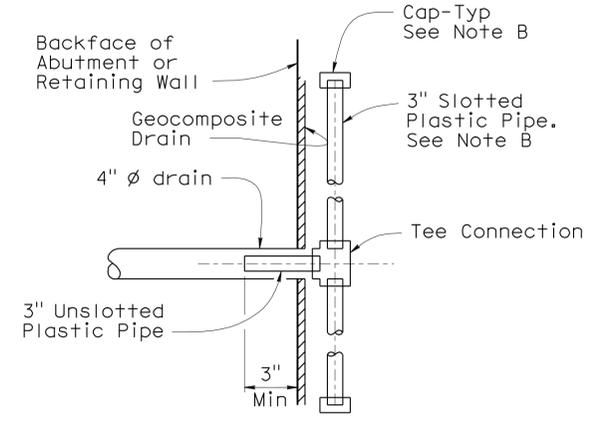
Ramin Rashedi DESIGN ENGINEER	DESIGN	BY Buster Hansen	CHECKED Mark Okimura	LAYOUT	BY Buster Hansen	CHECKED Mark Okimura	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 8 GENERAL PLAN										
	DETAILS	BY Bruno Jenko	CHECKED Mark Okimura		BY Theresa Nedwick	CHECKED Theresa Nedwick		POST MILE											
	QUANTITIES	BY Dary Tavalli	CHECKED Tom Bittermann		SPECIFICATIONS	BY Theresa Nedwick		CHECKED Theresa Nedwick		1.47									
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS							CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <td>1-5-10</td> <td>3-10-10</td> <td>3-11-10</td> <td>4-28-10</td> <td>6-04-10</td> <td>1-19-11</td> <td>3-8-11</td> <td></td> <td></td> </tr> </table>	1-5-10	3-10-10	3-11-10	4-28-10	6-04-10	1-19-11	3-8-11			SHEET 1 OF 4
1-5-10	3-10-10	3-11-10	4-28-10	6-04-10	1-19-11	3-8-11													

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	566	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 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.



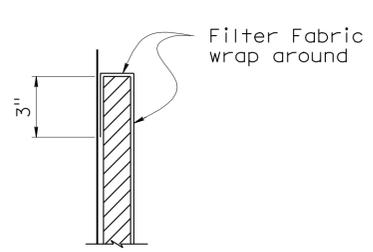
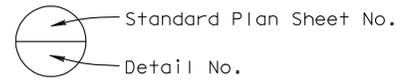
WALL SECTION



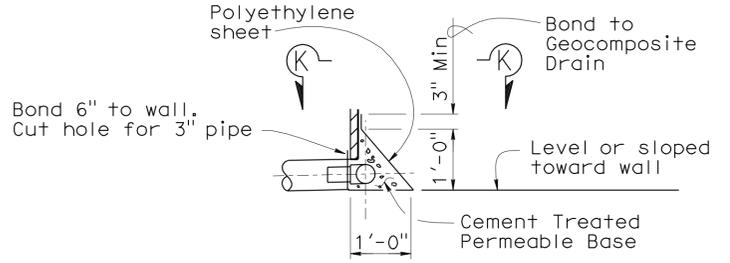
SECTION K-K

**STANDARD PLANS
Dated May 2006**

- A10A ACRONYMS AND ABBREVIATIONS (A-L)
- A10B ACRONYMS AND ABBREVIATIONS (M-Z)
- A62B LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL- BRIDGE SURCHARGE AND WALL
- B0-3 BRIDGE DETAILS
- B3-7 RETAINING WALL TYPE 5
- B3-8 RETAINING WALL DETAILS NO. 1
- B11-56 CONCRETE BARRIER TYPE 736



DETAIL "D"



DETAIL "E"

INDEX TO PLANS

Sheet No.	Title
1	GENERAL PLAN
2	RETAINING WALL DETAILS
3	ARCHITECTURAL TREATMENT DETAILS
4	BARRIER MOTIF DETAILS

WEEP HOLE AND GEOCOMPOSITE DRAIN

NO SCALE

Notes:

- A. 4" ϕ drains at intermediate sag points and at 25'-0" center to center. For walls adjacent to sidewalks or curbs, provide 4" ϕ cast iron or asbestos cement pipe under the sidewalk to discharge through curb face. Exposed wall drains shall be located 3" \pm above finished grade.
- B. Geocomposite drain, cement treated permeable base, and 3" ϕ slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" ϕ drain.
- C. Connect the low end of plastic pipe to the main outlet pipe as applicable.

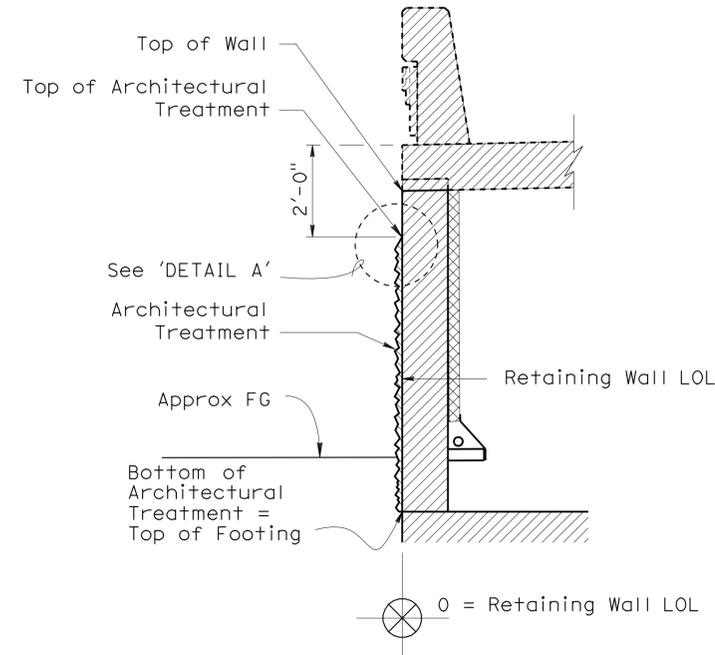
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Buster Hansen	CHECKED Mark Okimura	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 8		
	DETAILS	BY Pauline Tong	CHECKED Mark Okimura			RW8			
	QUANTITIES	BY Dary Tavatli	CHECKED Tom Bittermann			POST MILE 1.47			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	SHEET 2 OF 4

USERNAME => hrm001.in DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:42

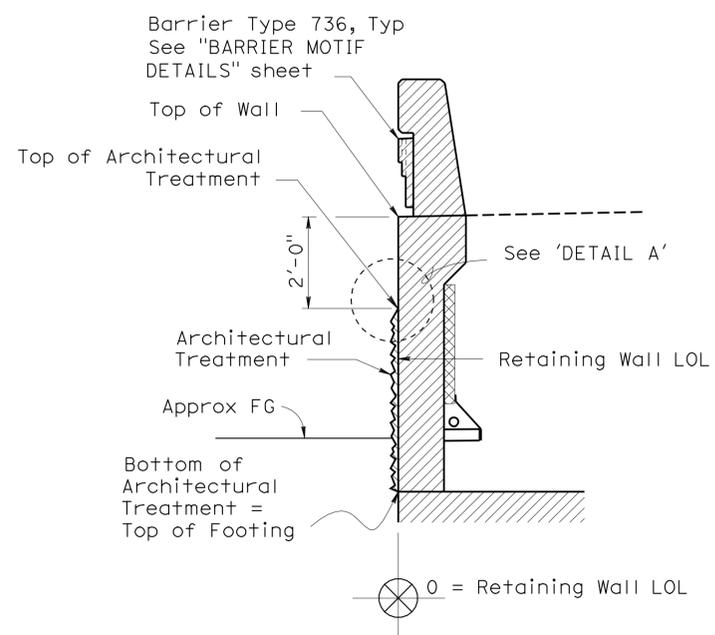
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	567	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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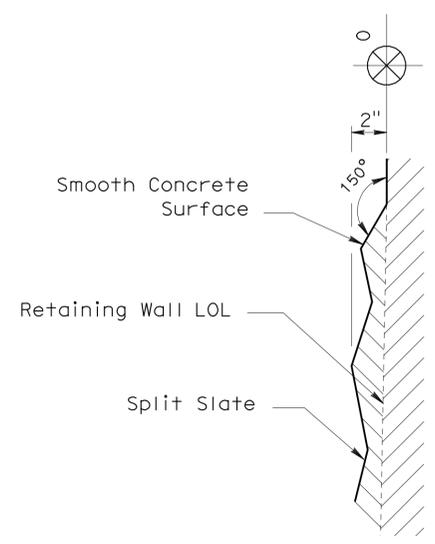
REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



SECTION A-A
1/2"=1'-0"



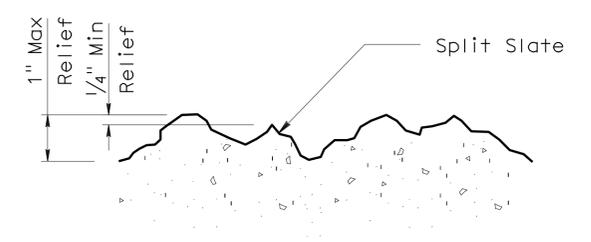
SECTION B-B
1/2"=1'-0"



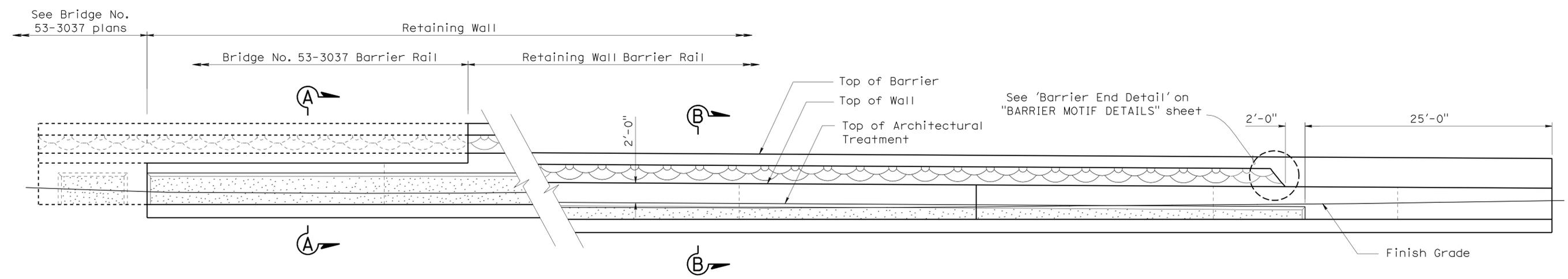
DETAIL A
No Scale

Notes:
All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL

- Legend:
- Split Slate Texture Concrete Surface
 - Smooth Concrete Surface



SPLIT SLATE TEXTURE
No Scale

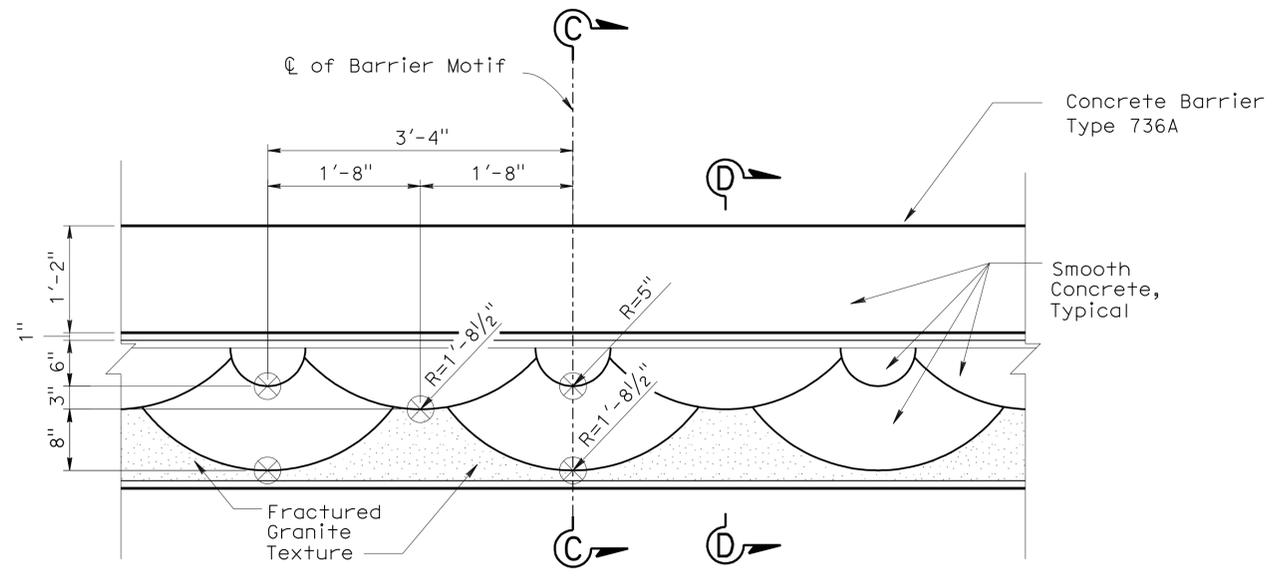


PARTIAL MIRRORED ELEVATION
3/16"=1'-0"

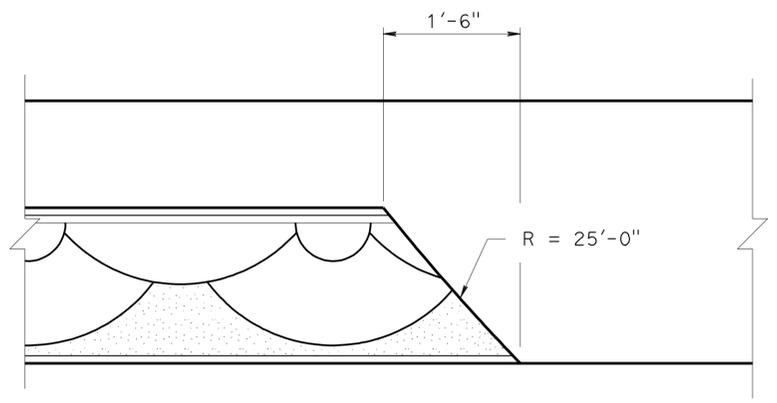
DESIGN BY Javier Chavez CHECKED Isaac Tasabia DETAILS BY Pauline Tong CHECKED Javier Chavez QUANTITIES BY Daryoush Tavatli CHECKED Thomas Bittermann	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. RW8 POST MILE 1.47	RETAINING WALL NO. 8 ARCHITECTURAL TREATMENT DETAILS	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 4-10 6-10	SHEET 3 OF 4
	STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)		FILE => rw8-u-archd+01.dgn		USERNAME => hrmopt.in DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:42

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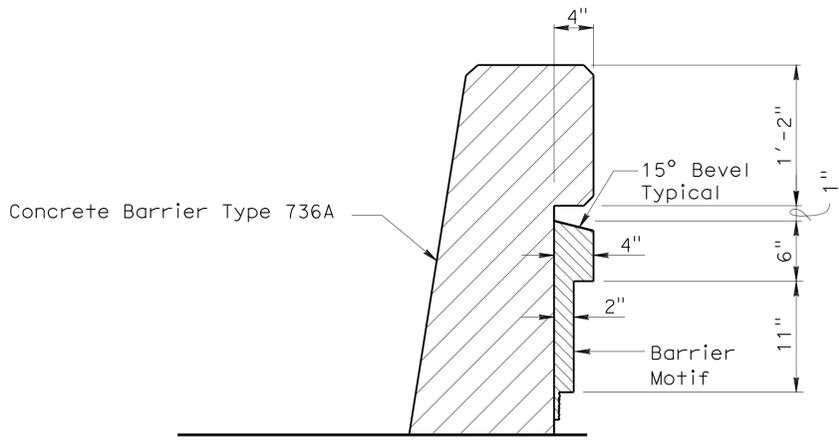
Phu Vong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
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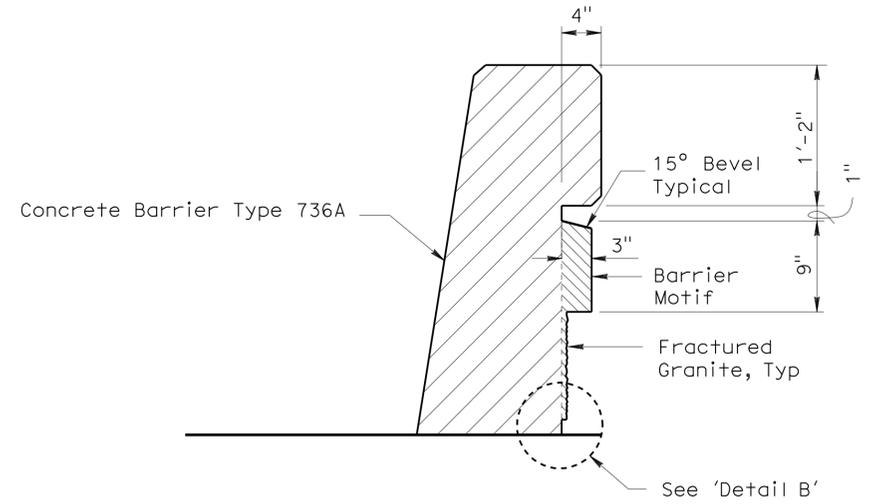
ELEVATION - BARRIER MOTIF
No Scale



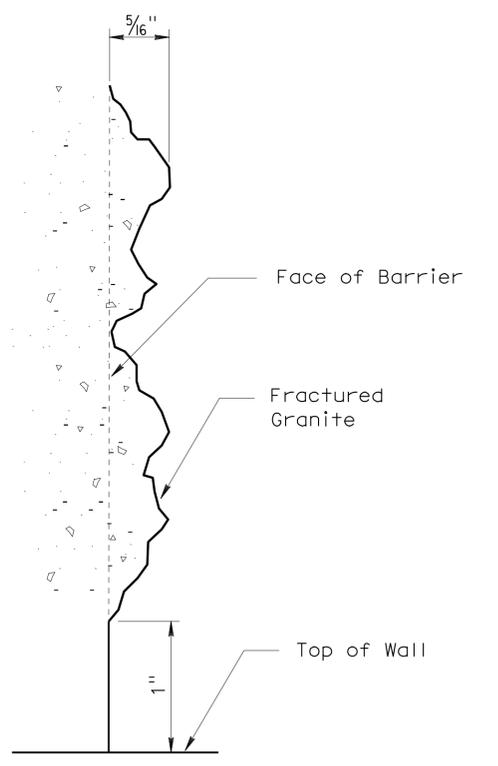
BARRIER END DETAIL
No Scale



SECTION C-C
No Scale



SECTION D-D
No Scale



DETAIL B
No Scale

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Javier Chavez	CHECKED Issac Tasabia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 8	
	DETAILS	BY Pauline Tong	CHECKED Javier Chavez			RW8		BARRIER MOTIF DETAILS
	QUANTITIES	BY Daryoush Tavatli	CHECKED Thomas Bittermann			POST MILE 1.47		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 4 OF 4	

USERNAME => hrm001.in DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:42

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	569	602

REGISTERED CIVIL ENGINEER DATE 3-2-11
 Ph V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 6-27-11
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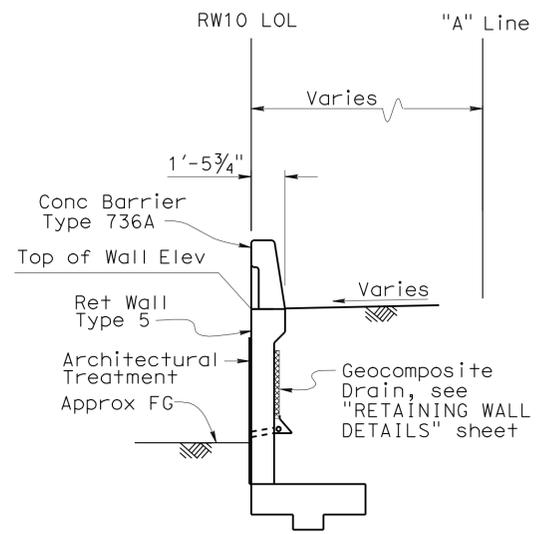
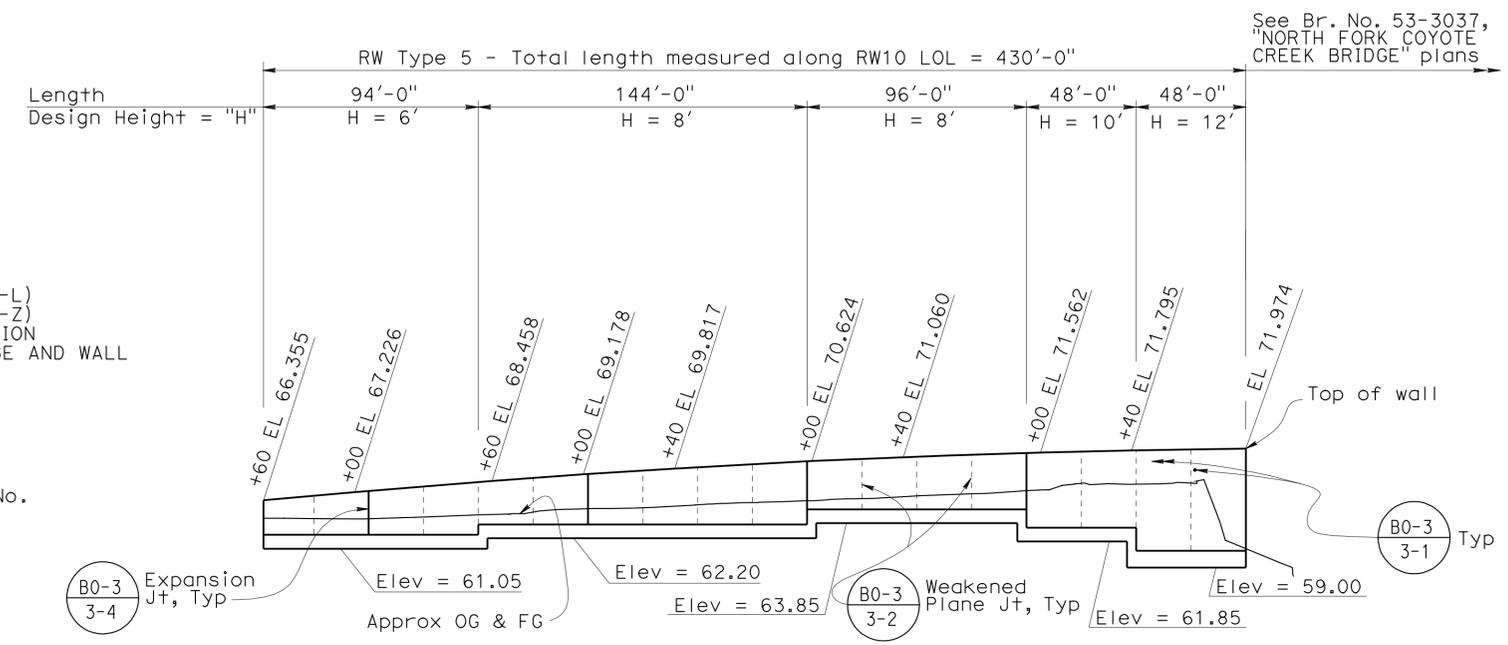
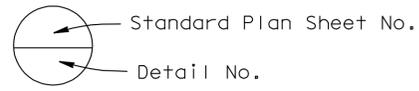
INDEX TO PLANS

Sheet No.	Title
1	GENERAL PLAN
2	RETAINING WALL DETAILS
3	BARRIER MOTIF DETAILS
4	ARCHITECTURAL TREATMENT

QUANTITIES	
STRUCTURE EXCAVATION (RETAINING WALL)	600 CY
STRUCTURE BACKFILL (RETAINING WALL)	605 CY
STRUCTURAL CONCRETE, RETAINING WALL	295 CY
ARCHITECTURAL TREATMENT	3,250 SQFT
ARCHITECTURAL SURFACE (BARRIER)	1,350 SQFT
BAR REINFORCING STEEL (RETAINING WALL)	26,700 LB
CONCRETE BARRIER (TYPE 736)	490 LF

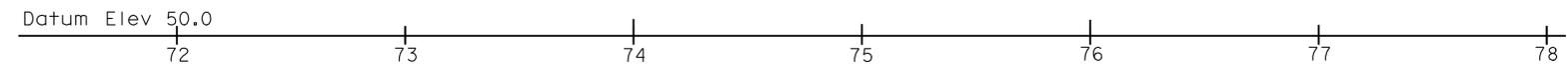
STANDARD PLANS Dated May 2006

- A10A ACRONYMS AND ABBREVIATIONS (A-L)
- A10B ACRONYMS AND ABBREVIATIONS (M-Z)
- A62B LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL- BRIDGE SURCHARGE AND WALL
- B0-3 BRIDGE DETAILS
- B3-7 RETAINING WALL TYPE 5
- B3-8 RETAINING WALL DETAILS NO. 1
- B11-56 CONCRETE BARRIER TYPE 736



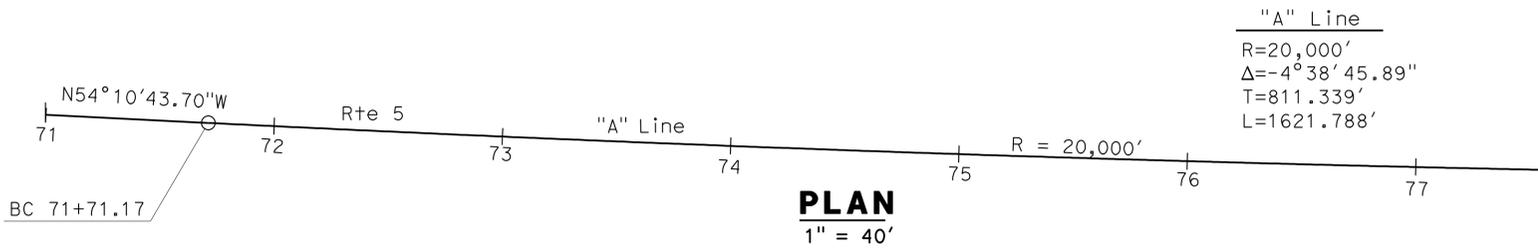
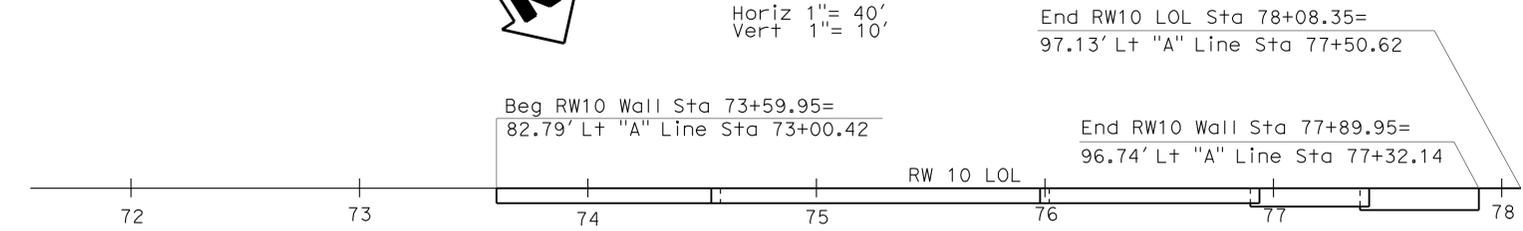
TYPICAL SECTION 1/4"=1'-0"

Note: Barrier not shown



MIRROR ELEVATION

Horiz 1"= 40'
Vert 1"= 10'



Ramin Rashedi DESIGN ENGINEER	DESIGN	BY Ubong Inyang	CHECKED Yeo Yoon		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 10 GENERAL PLAN
	DETAILS	BY T. Bittermann	CHECKED Yeo Yoon	LAYOUT			BY Ubong Inyang	
	QUANTITIES	BY Ubong Inyang	CHECKED Bill Kemp	SPECIFICATIONS	BY Theresa Nedwick	PLANS AND SPECS COMPARED Theresa Nedwick	POST MILE	
							1.47	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 0 1 2 3

CU 07227
 EA 215911

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES
 11-09-09 3-8-11 1-22-10 3-11-10 6-4-10 9-08-10 11-08-10 11-07-10 1-14-11

SHEET 1 OF 4

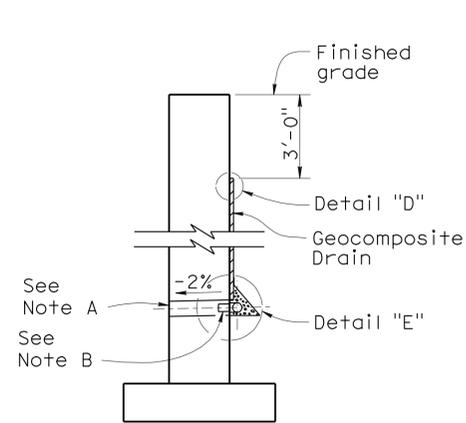
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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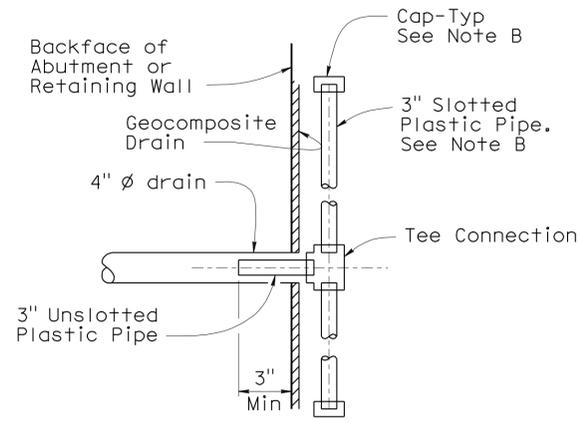
Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

6-27-11
 PLANS APPROVAL DATE

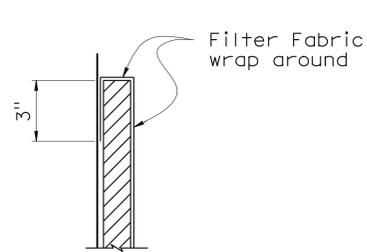
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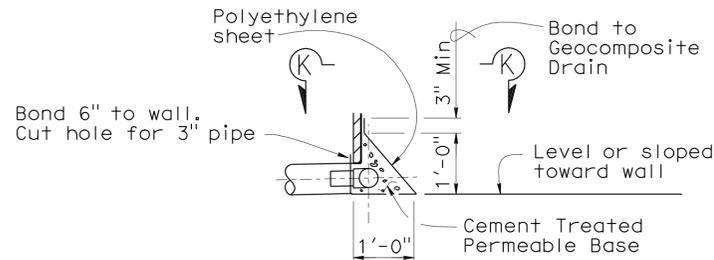
WALL SECTION



SECTION K-K



DETAIL "D"



DETAIL "E"

WEEP HOLE AND GEOCOMPOSITE DRAIN

NO SCALE

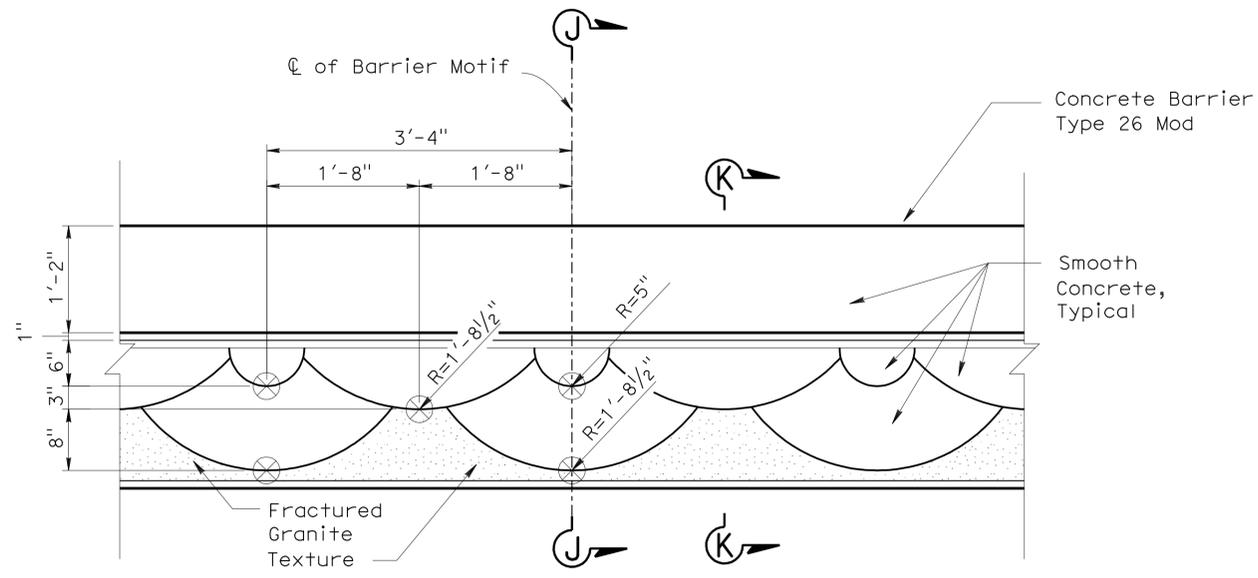
NOTES:

- A. 4" Ø drains at intermediate sag points and at 25'-0" center to center. For walls adjacent to sidewalks or curbs, provide 4" Ø cast iron or asbestos cement pipe under the sidewalk to discharge through curb face. Exposed wall drains shall be located 3" ± above finished grade.
- B. Geocomposite drain, cement treated permeable base, and 3" Ø slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" Ø drain.
- C. Connect the low end of plastic pipe to the main outlet pipe as applicable.

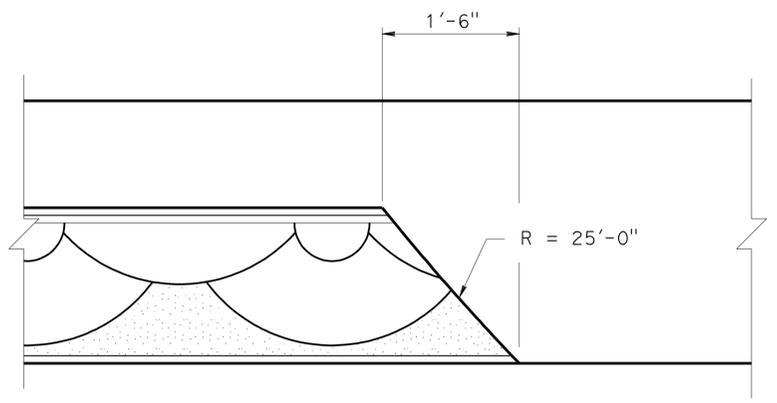
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Ubong Inyang	CHECKED Yeo Yoon	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL 10	
	DETAILS	BY Pauline Tong	CHECKED Yeo Yoon			RW10		RETAINING WALL DETAILS
	QUANTITIES	BY Ubong Inyang	CHECKED Bill Kemp			POST MILE 1.47		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 07227 EA 215911	REVISION DATES		SHEET 2 OF 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	571	602

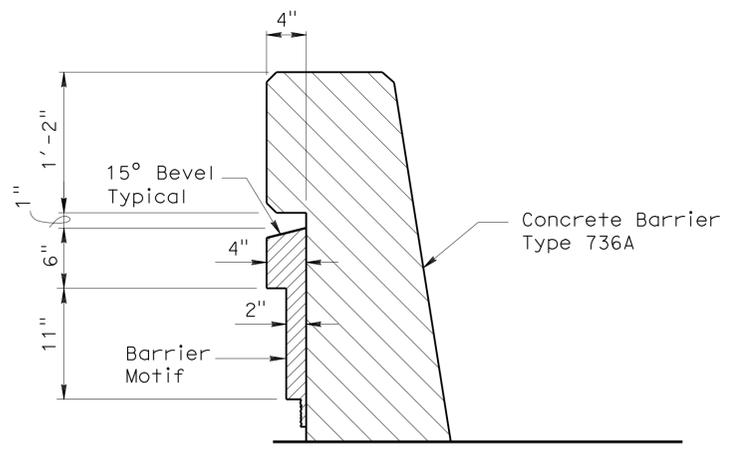
Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



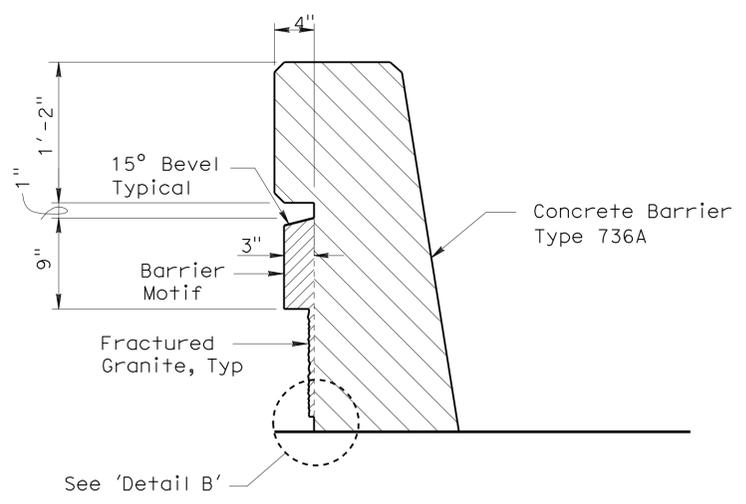
ELEVATION - BARRIER MOTIF
No Scale



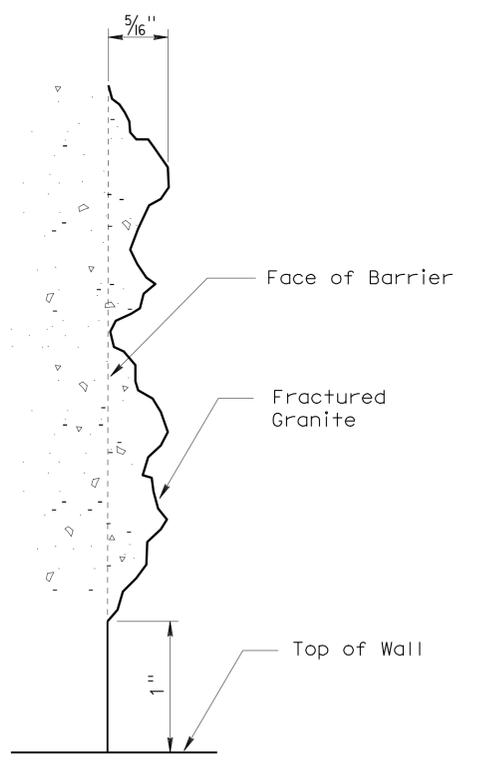
BARRIER END DETAIL
No Scale



SECTION J-J
No Scale



SECTION K-K
No Scale



DETAIL E
No Scale

DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia
DETAILS	BY Pauline Tong	CHECKED Javier Chavez
QUANTITIES	BY Ubong Inyang	CHECKED Bill Kemp

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

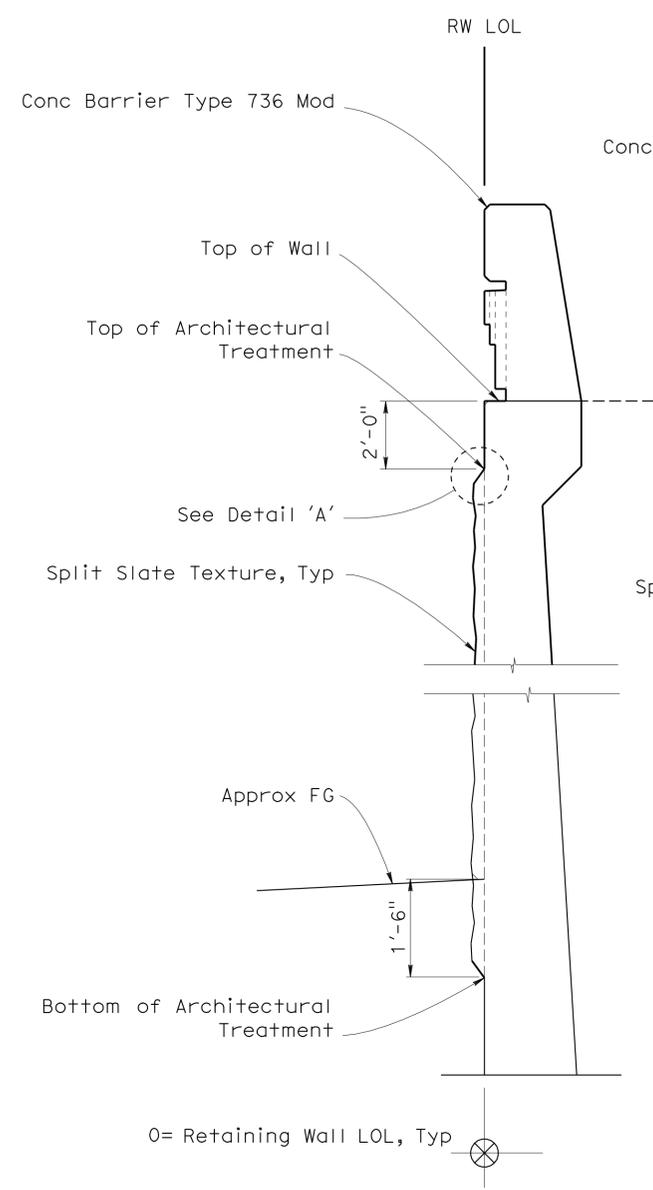
BRIDGE NO.	RW1
POST MILE	1.47

RETAINING WALL NO. 10
BARRIER MOTIF DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	572	602

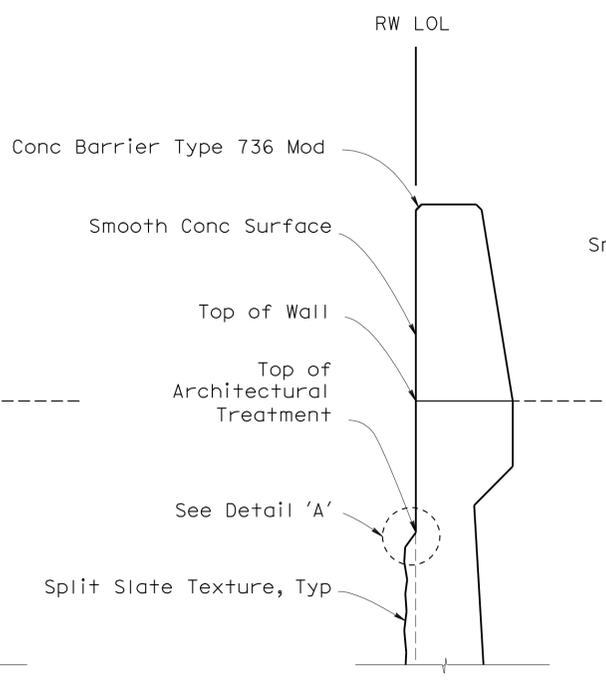
REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE 6-27-11
 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.

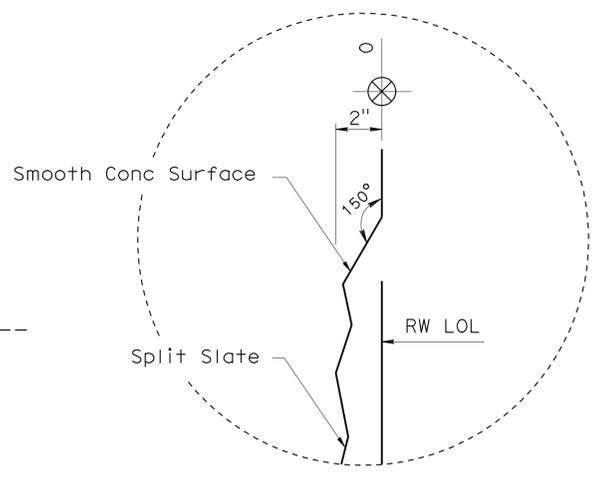


SECTION B-B

NO SCALE

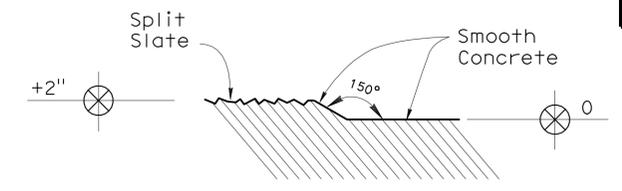


SECTION C-C

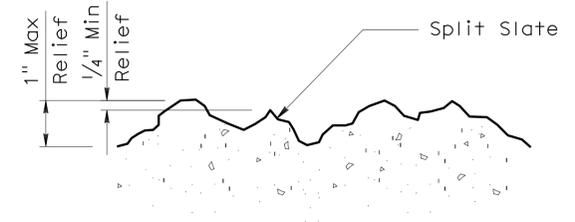


DETAIL 'A'

NOTE: ALL REFERENCE TO SURFACE DIMENSIONS OF WALL DETAILS ARE FROM DATUM 0 = RETAINING WALL LOL, TYPICAL

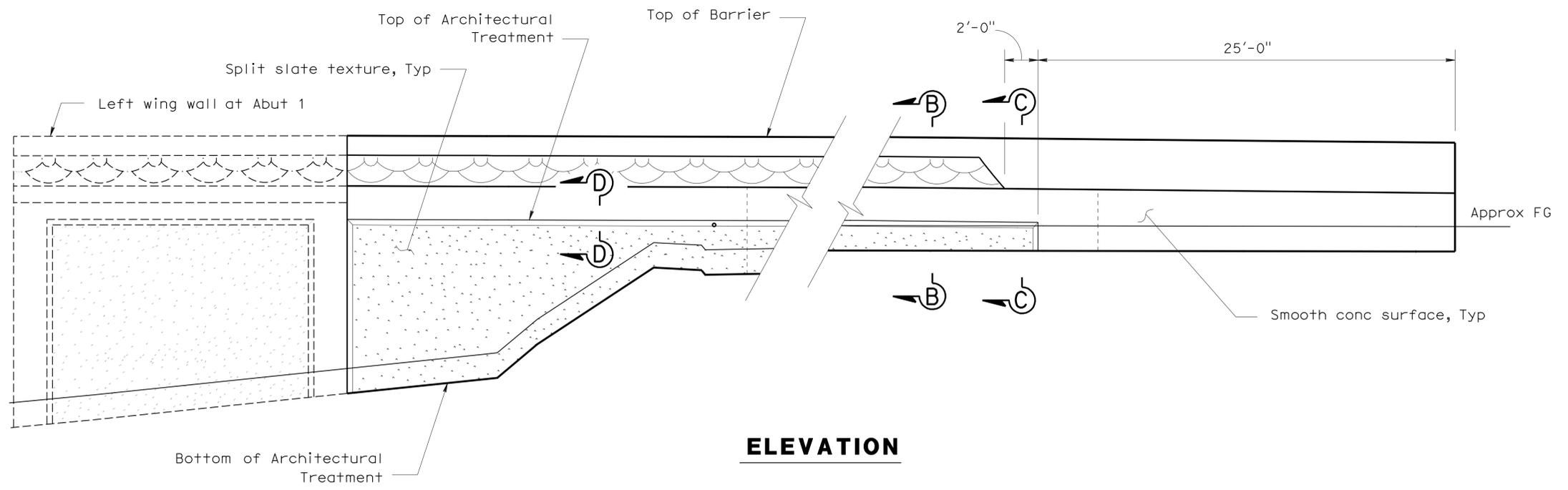


SECTION D-D



SPLIT SLATE TEXTURE

No Scale



ELEVATION

DESIGN	BY Javier Chavez	CHECKED Issac Tasabia
DETAILS	BY Issac Tasabia	CHECKED Javier Chavez
QUANTITIES	BY Ubong Inyang	CHECKED Bill Kemp

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

BRIDGE NO.	RW10
POST MILE	1.47

RETAINING WALL NO. 10
ARCHITECTURAL TREATMENT

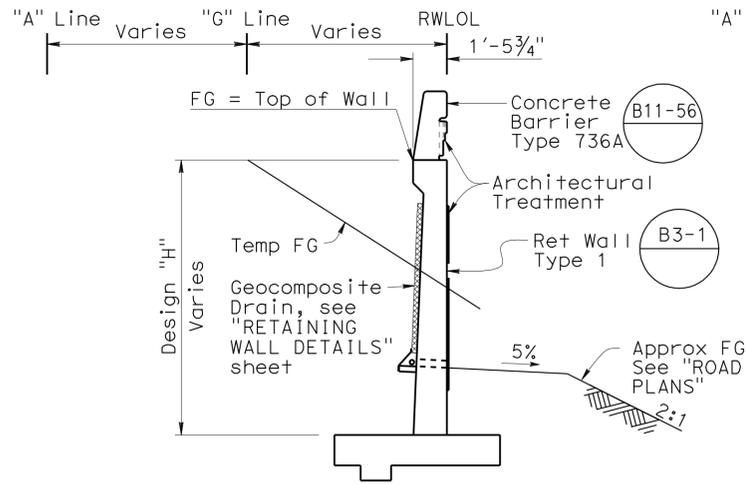
**STANDARD PLANS
Dated May 2006**

- A10A ACRONYMS AND ABBREVIATIONS (A-L)
- A10B ACRONYMS AND ABBREVIATIONS (M-Z)
- A62B LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL- BRIDGE SURCHARGE AND WALL
- B0-3 BRIDGE DETAILS
- B3-1 RETAINING WALL TYPE 1
- B3-8 RETAINING WALL DETAILS NO. 1
- B11-56 CONCRETE BARRIER TYPE 736

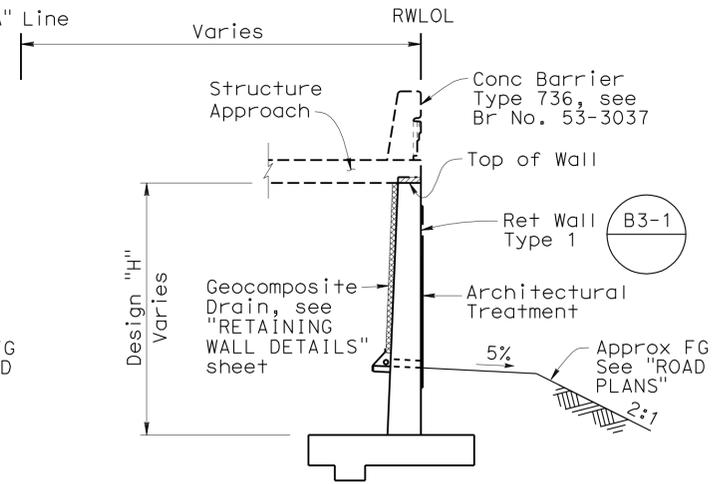


INDEX TO PLANS

Sheet No.	Title
1	GENERAL PLAN
2	RETAINING WALL DETAILS
3	BARRIER MOTIF DETAILS
4	ARCHITECTURAL TREATMENT



TYPICAL SECTION
No Scale



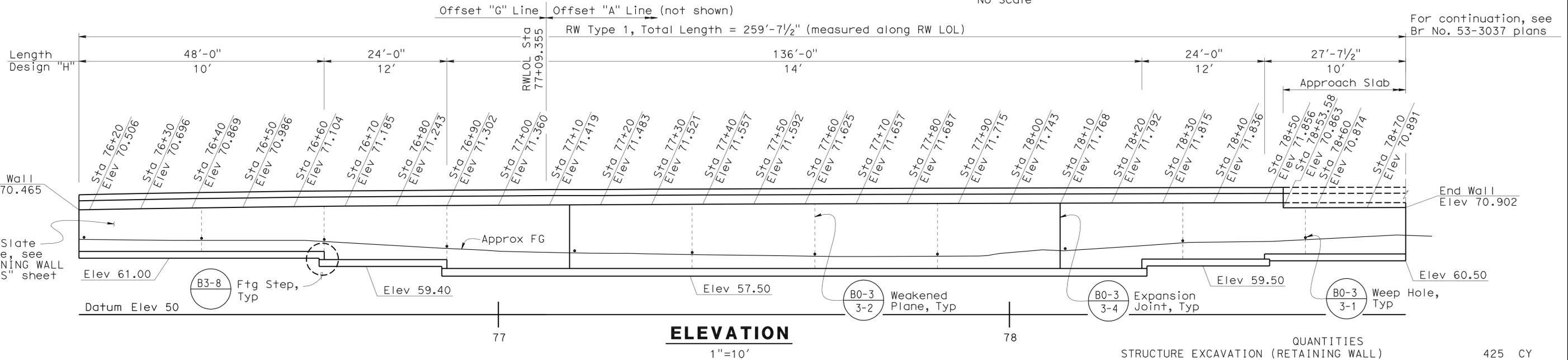
TYPICAL SECTION AT STRUCTURE APPROACH
No Scale

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	573	602

REGISTERED CIVIL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE

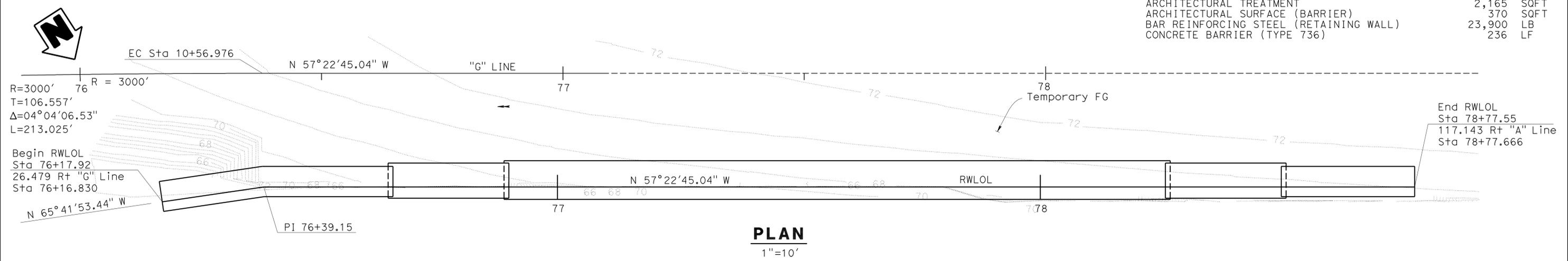
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



ELEVATION
1"=10'

QUANTITIES

STRUCTURE EXCAVATION (RETAINING WALL)	425	CY
STRUCTURE BACKFILL (RETAINING WALL)	535	CY
STRUCTURAL CONCRETE, RETAINING WALL	255	CY
ARCHITECTURAL TREATMENT	2,165	SQFT
ARCHITECTURAL SURFACE (BARRIER)	370	SQFT
BAR REINFORCING STEEL (RETAINING WALL)	23,900	LB
CONCRETE BARRIER (TYPE 736)	236	LF



PLAN
1"=10'

Ramin Rashedi DESIGN ENGINEER	DESIGN	BY Ubong Inyang	CHECKED Jeffrey Duffin	LAYOUT	BY Ubong Inyang	CHECKED Yeo Yoon	SPECIFICATIONS	BY Theresa Nedwick	CHECKED Theresa Nedwick	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 11	
	DETAILS	BY Pauline Tong	CHECKED Jeffrey Duffin		BY Ubong Inyang	CHECKED Yeo Yoon		POST MILE	GENERAL PLAN					
	QUANTITIES	BY Ubong Inyang	CHECKED Loren Goldthwait		BY Theresa Nedwick	CHECKED Theresa Nedwick		1.47						

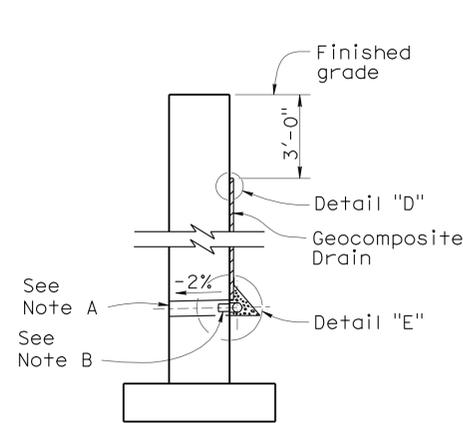
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 CU 07227 EA 215911
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

1-4-10	3-8-11	2-3-10	3-11-10	4-19-10	5-08-10	6-01-10	10/14/10	1-15-11
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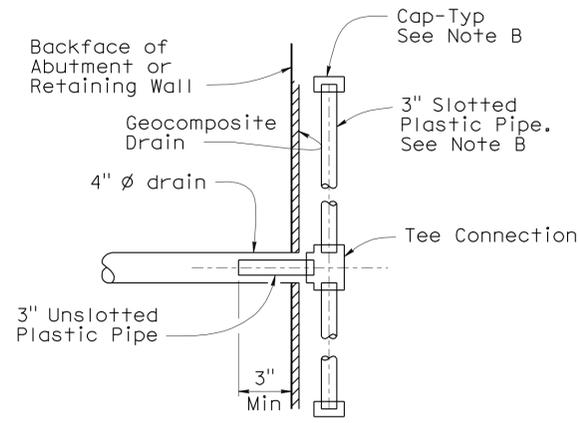
SHEET 1 OF 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	574	602

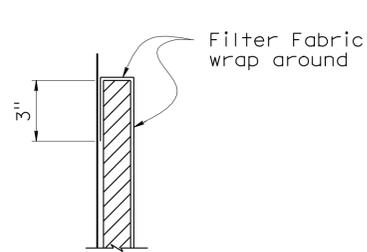
 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
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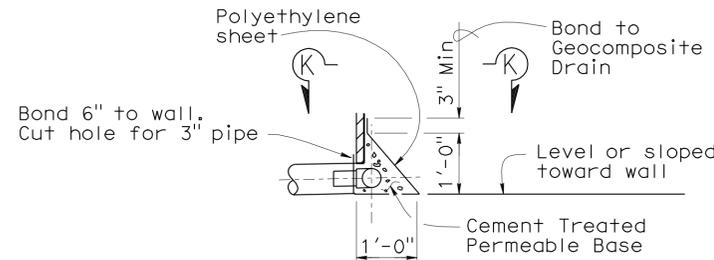
WALL SECTION



SECTION K-K



DETAIL "D"



DETAIL "E"

WEEP HOLE AND GEOCOMPOSITE DRAIN

NO SCALE

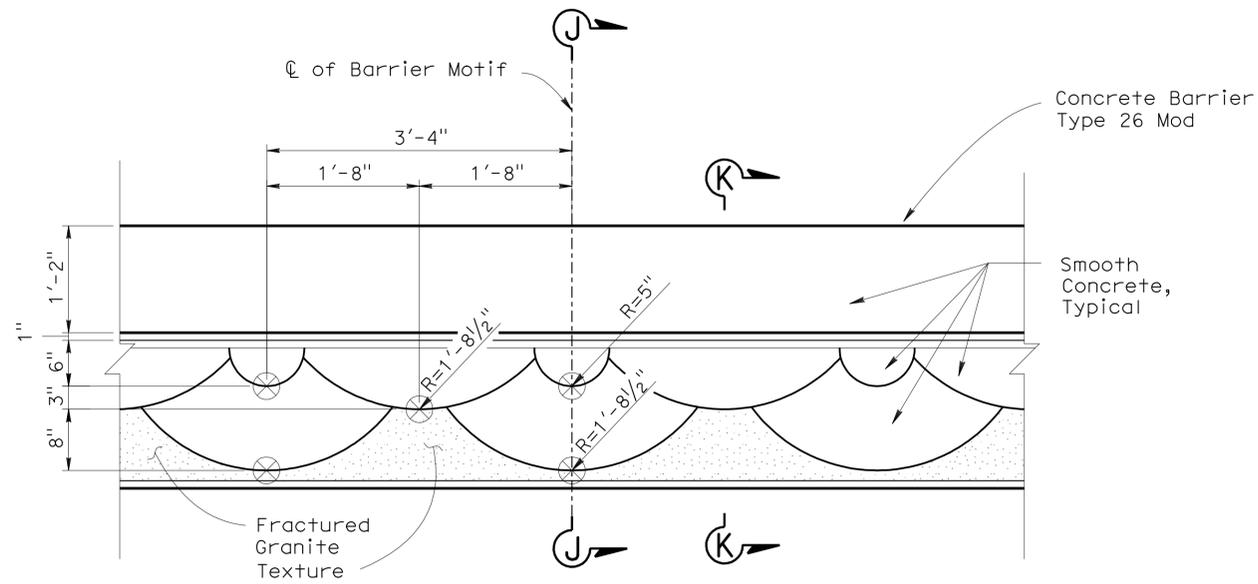
NOTES:

- A. 4" Ø drains at intermediate sag points and at 25'-0" center to center. For walls adjacent to sidewalks or curbs, provide 4" Ø cast iron or asbestos cement pipe under the sidewalk to discharge through curb face. Exposed wall drains shall be located 3" ± above finished grade.
- B. Geocomposite drain, cement treated permeable base, and 3" Ø slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" Ø drain.
- C. Connect the low end of plastic pipe to the main outlet pipe as applicable.

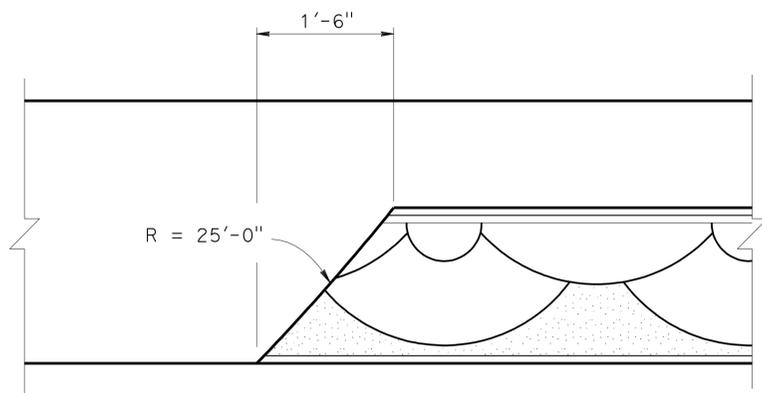
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Ubong Inyang	CHECKED Jeffrey Duffin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 11	
	DETAILS	BY Pauline Tong	CHECKED Jeffrey Duffin			RW11		RETAINING WALL DETAILS
	QUANTITIES	BY Ubong Inyang	CHECKED Loren Goldthwait			POST MILE 1.47		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 2 OF 4	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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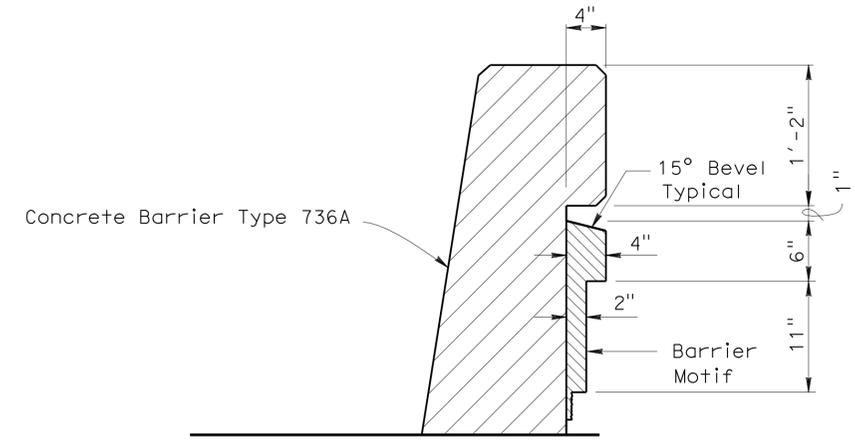
Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
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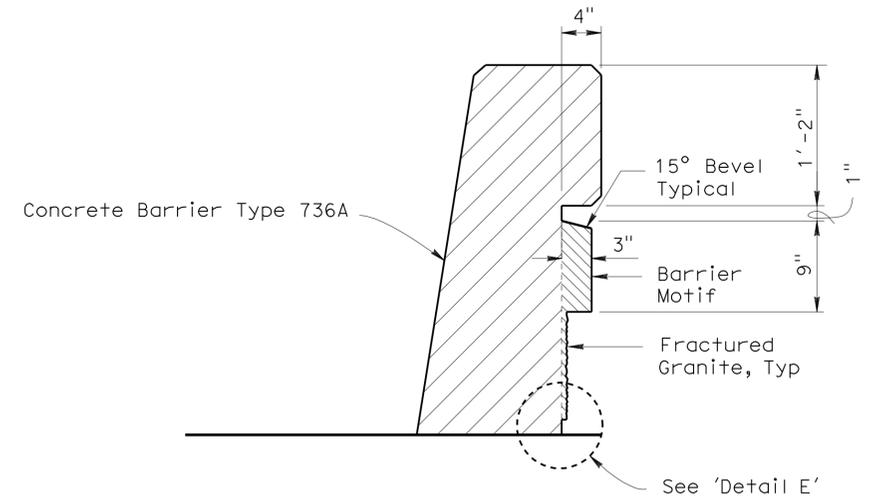
ELEVATION - BARRIER MOTIF
NO SCALE



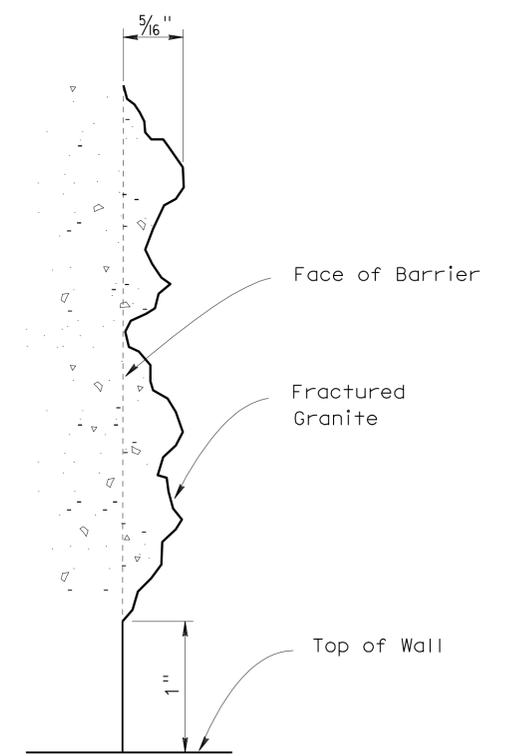
BARRIER END DETAIL
NO SCALE



SECTION J-J
NO SCALE



SECTION K-K
NO SCALE



DETAIL E
NO SCALE

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Javier Chavez	CHECKED Issac Tasabia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 11	
	DETAILS	BY Pauline Tong	CHECKED Javier Chavez			RW11		BARRIER MOTIF DETAILS
	QUANTITIES	BY Ubong Inyang	CHECKED Loren Goldthwait			POST MILE 1.47		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 3 OF 4	

USERNAME => hrm001.in DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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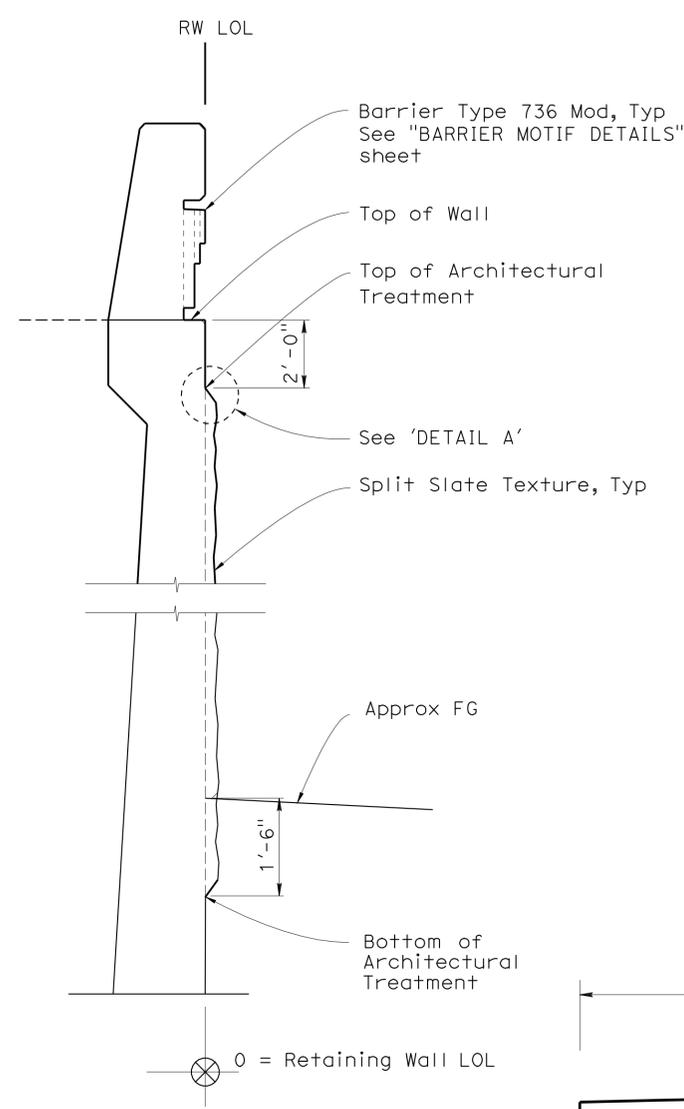
Phu Vong Inyang 3-2-11
REGISTERED CIVIL ENGINEER DATE

6-27-11
PLANS APPROVAL DATE

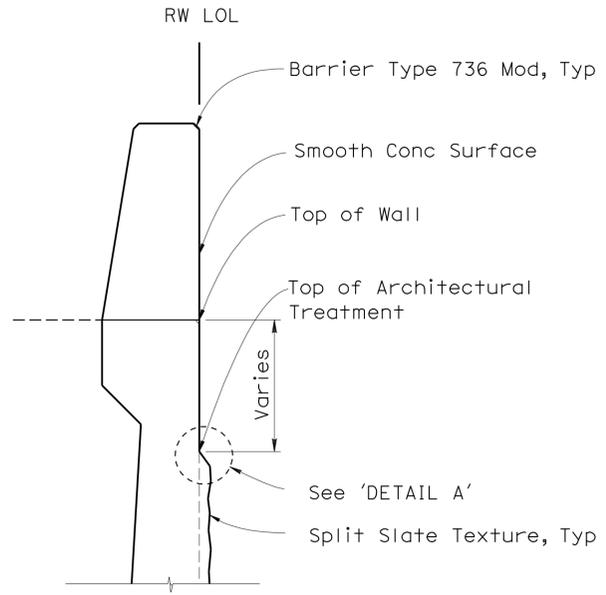
Phu V. Nguyen
No. 60358
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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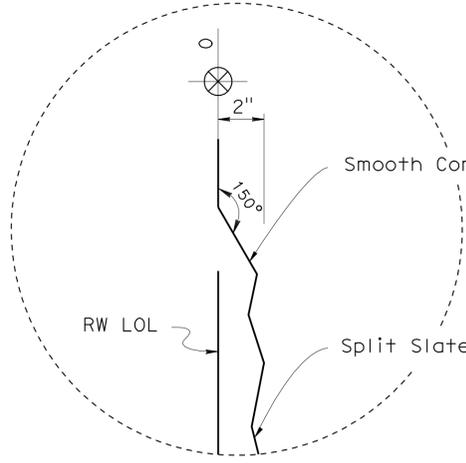
NOTE: ALL REFERENCE TO SURFACE DIMENSIONS OF WALL DETAILS ARE FROM DATUM 0 = RETAINING WALL LOL, TYPICAL



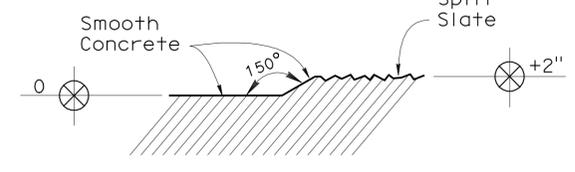
SECTION B-B



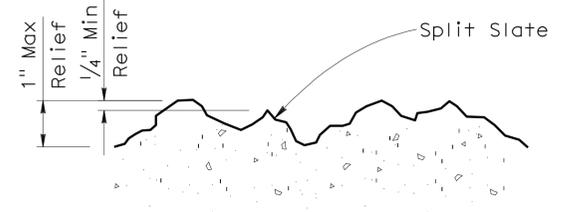
SECTION C-C



DETAIL 'A'

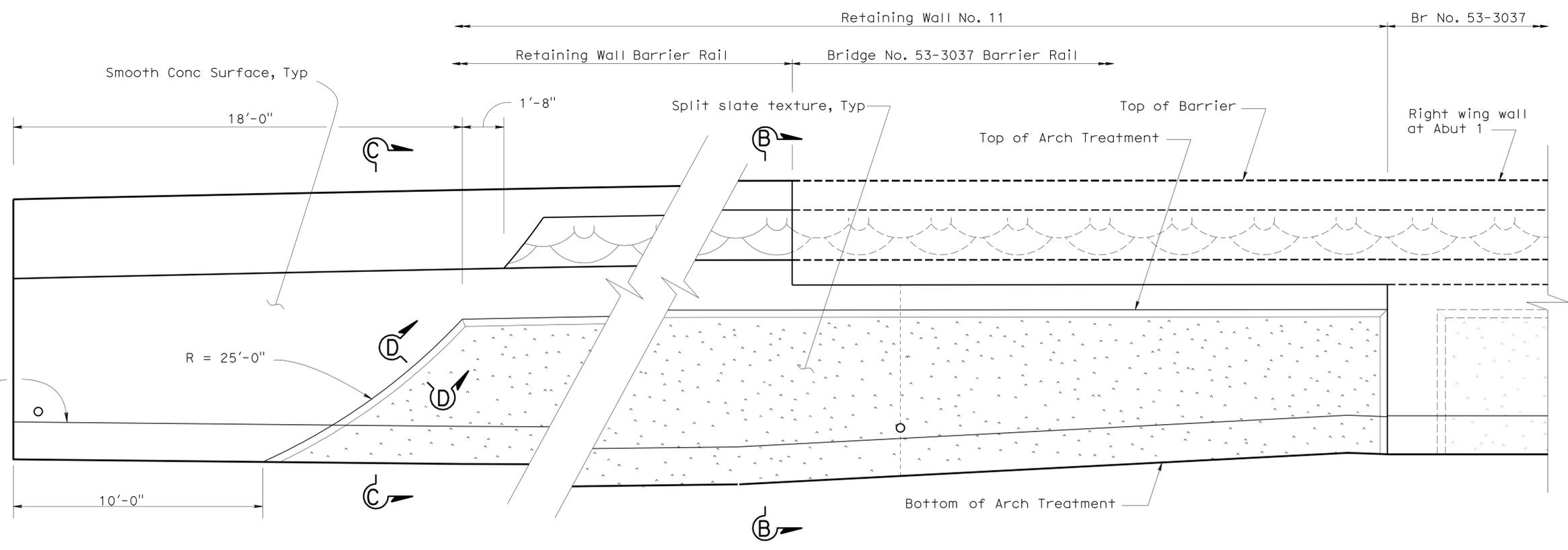


SECTION D-D



SPLIT SLATE TEXTURE

NO SCALE



DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia
DETAILS	BY Isaac Tasabia	CHECKED Javier Chavez
QUANTITIES	BY Ubong Inyang	CHECKED Loren Goldthwait

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

BRIDGE NO.	RW11
POST MILE	1.47

RETAINING WALL NO. 11
ARCHITECTURAL TREATMENT

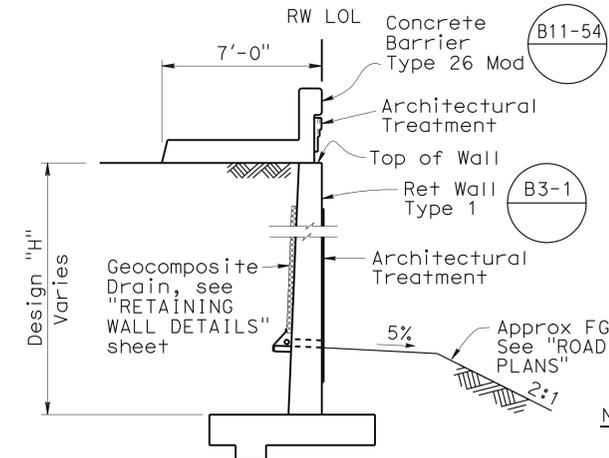
STANDARD PLANS
Dated May 2006

A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL- BRIDGE SURCHARGE AND WALL
B0-3	BRIDGE DETAILS
B3-1	RETAINING WALL TYPE 1
B3-8	RETAINING WALL DETAILS NO. 1
B11-54	CONCRETE BARRIER TYPE 26
B11-56	CONCRETE BARRIER TYPE 736



INDEX TO PLANS

SHEET NO.	TITLE	QUANTITIES
1	GENERAL PLAN	STRUCTURE EXCAVATION (RETAINING WALL) 150 CY
2	RETAINING WALL DETAILS	STRUCTURE BACKFILL (RETAINING WALL) 210 CY
3	ARCHITECTURAL TREATMENT DETAILS	STRUCTURAL CONCRETE, RETAINING WALL 89 CY
4	BARRIER MOTIF DETAILS	ARCHITECTURAL TREATMENT 585 SQFT
		ARCHITECTURAL SURFACE (BARRIER) 140 SQFT
		BAR REINFORCING STEEL (RETAINING WALL) 7,700 LB
		CONCRETE BARRIER (TYPE 26 MODIFIED) 11 LF
		CONCRETE BARRIER (TYPE 736) 82 LF



TYPICAL SECTION
No Scale
Sta 4+42.13 to Sta 4+53.35 RWLOL

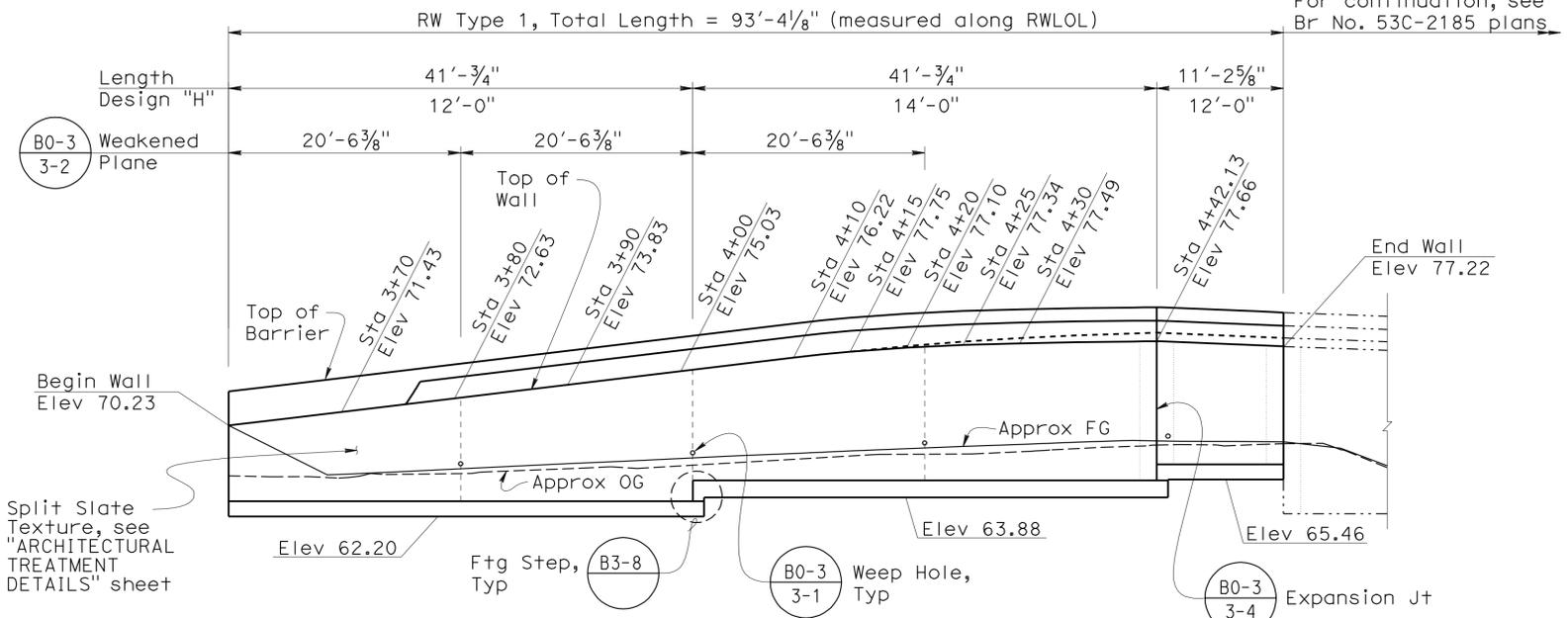
NOTE:
* Dimension varies from 0" at Sta 4+15.00 to 9"± at Sta 4+42.13. For FG Elevations, see "ROAD PLANS".

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	577	602

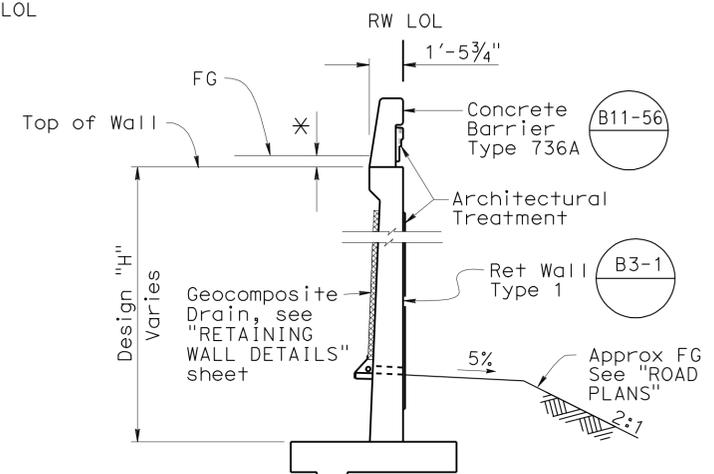
REGISTERED CIVIL ENGINEER
Phu V. Nguyen
No. 60358
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

3-2-11
DATE
6-27-11
PLANS APPROVAL DATE

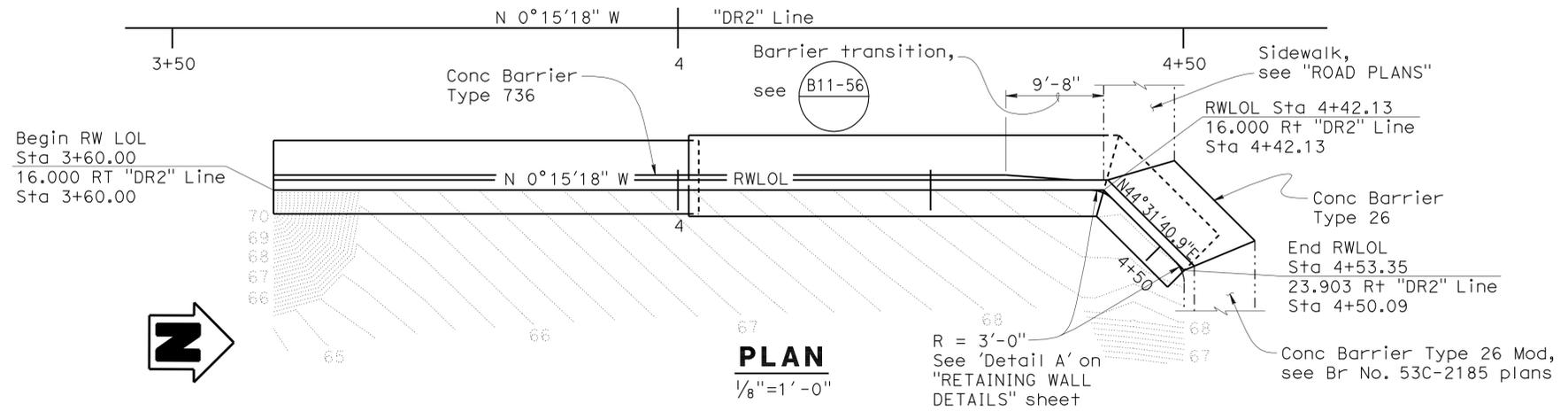
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



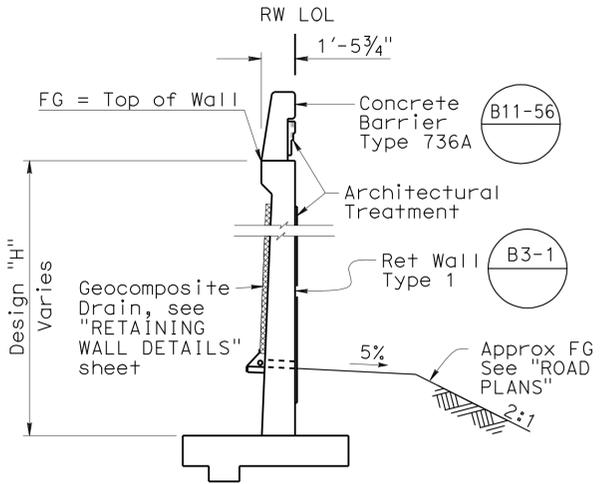
DEVELOPED ELEVATION
1/8"=1'-0"



TYPICAL SECTION
No Scale
Sta 4+15.00 to Sta 4+42.13 RWLOL



PLAN
1/8"=1'-0"



TYPICAL SECTION
No Scale
Sta 3+60.00 to Sta 4+15.00 RWLOL

Ramin Rashedi DESIGN ENGINEER	DESIGN	BY Jay Posey	CHECKED Antonio Picazo	LAYOUT	BY Jay Posey	CHECKED Antonio Picazo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RW12	RETAINING WALL NO. 12 GENERAL PLAN
	DETAILS	BY Pauline Tong	CHECKED Antonio Picazo		BY Theresa Nedwick	CHECKED Theresa Nedwick			POST MILE	2.43	
	QUANTITIES	BY Jay Posey	CHECKED Tom Bittermann		PLANS AND SPECS COMPARED	Theresa Nedwick			REVISION DATES	12/1/09 3/8/11 3/11/10 4/8/10 4/12/10 3/27/10 5/11/10 5/20/10 5/21/10	

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

CU 07227 EA 215911

DISREGARD PRINTS BEARING EARLIER REVISION DATES

FILE => rw12-a-gp01.dgn

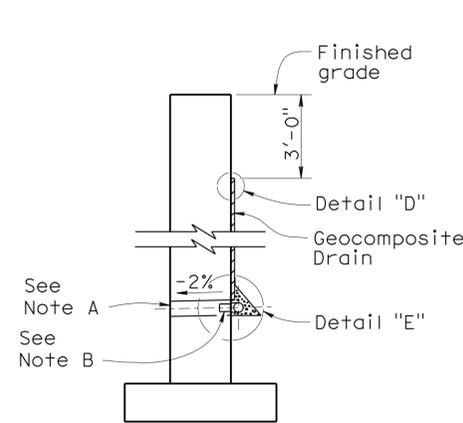
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USERNAME => fpmo01.in DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:44

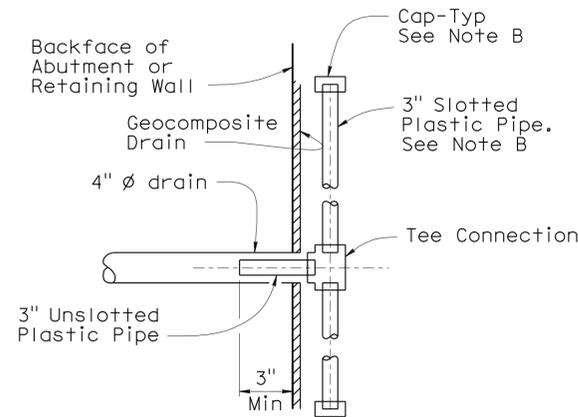
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	578	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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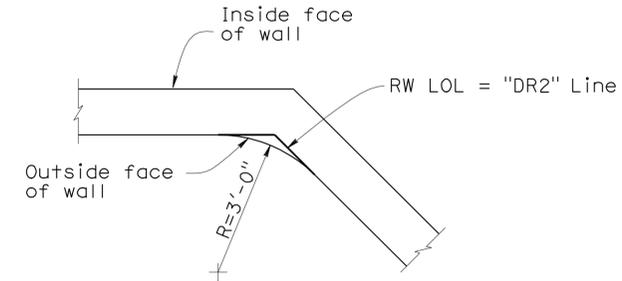
REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



WALL SECTION

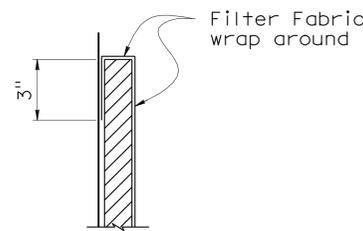


SECTION K-K

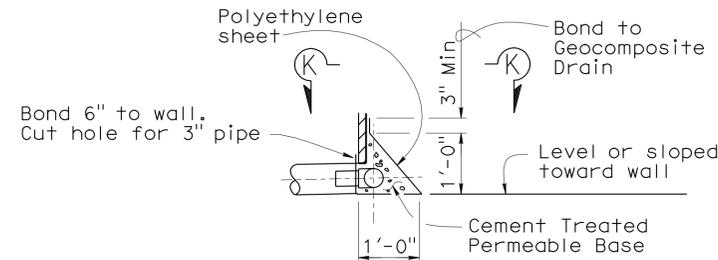


DETAIL A

1/2" = 1'-0"



DETAIL "D"



DETAIL "E"

WEEP HOLE AND GEOCOMPOSITE DRAIN

NO SCALE

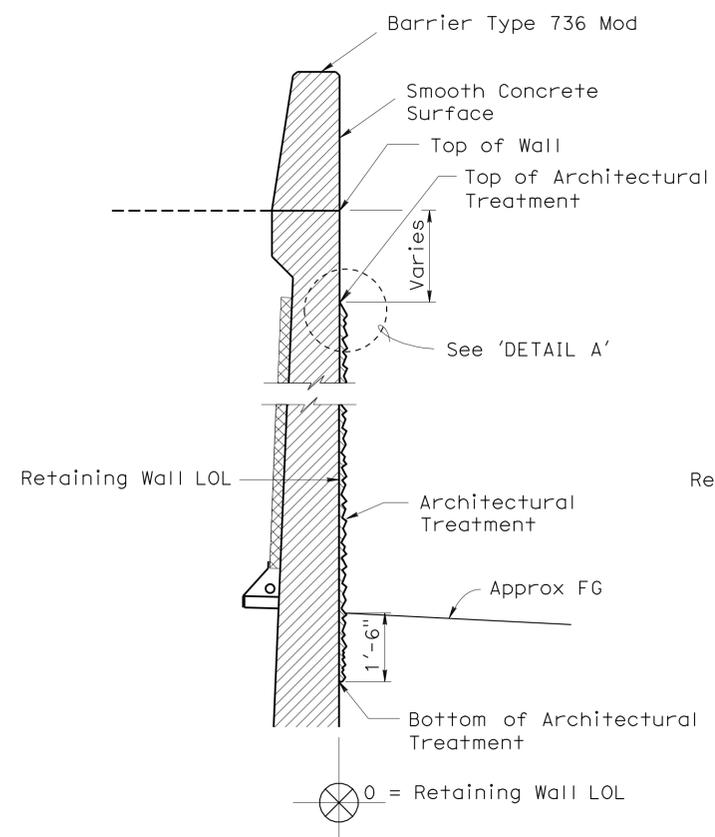
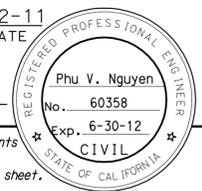
Notes:

- A. 4" ϕ drains at intermediate sag points and at 25'-0" center to center (9'-0" c-c for Type 3 and 9'-2" c-c for Type 4 retaining walls). For walls adjacent to sidewalks or curbs, provide 4" ϕ cast iron or asbestos cement pipe under the sidewalk to discharge through curb face. Exposed wall drains shall be located 3" \pm above finished grade.
- B. Geocomposite drain, cement treated permeable base, and 3" ϕ slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" ϕ drain.
- C. Connect the low end of plastic pipe to the main outlet pipe as applicable.

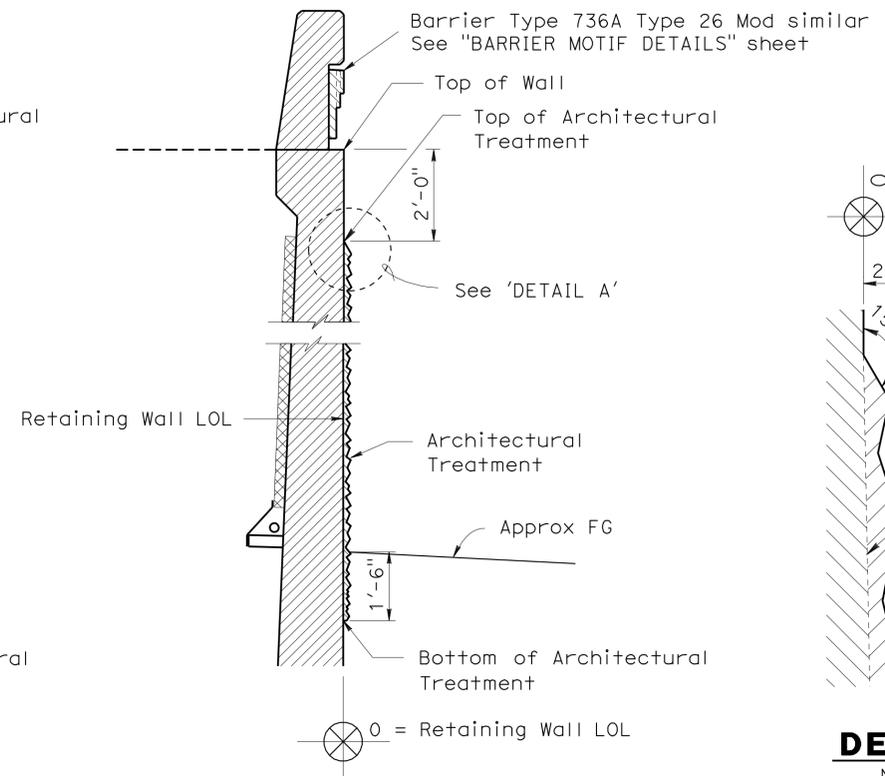
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Jay Posey	CHECKED Antonio Picazo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 12 RETAINING WALL DETAILS
	DETAILS	BY Pauline Tong	CHECKED Antonio Picazo			RW12	
	QUANTITIES	BY Jay Posey	CHECKED Tom Bittermann			POST MILE 2.43	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
						REVISION DATES 12-22-09 3-11-10 4/12/10 5-27-10	SHEET 2 OF 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	579	602

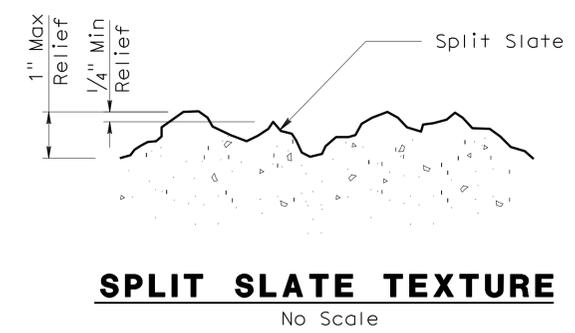
Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



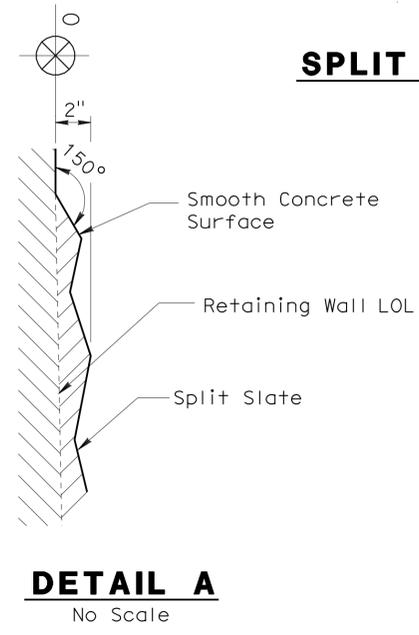
SECTION A-A
1/2"=1'-0"



SECTION B-B
1/2"=1'-0"



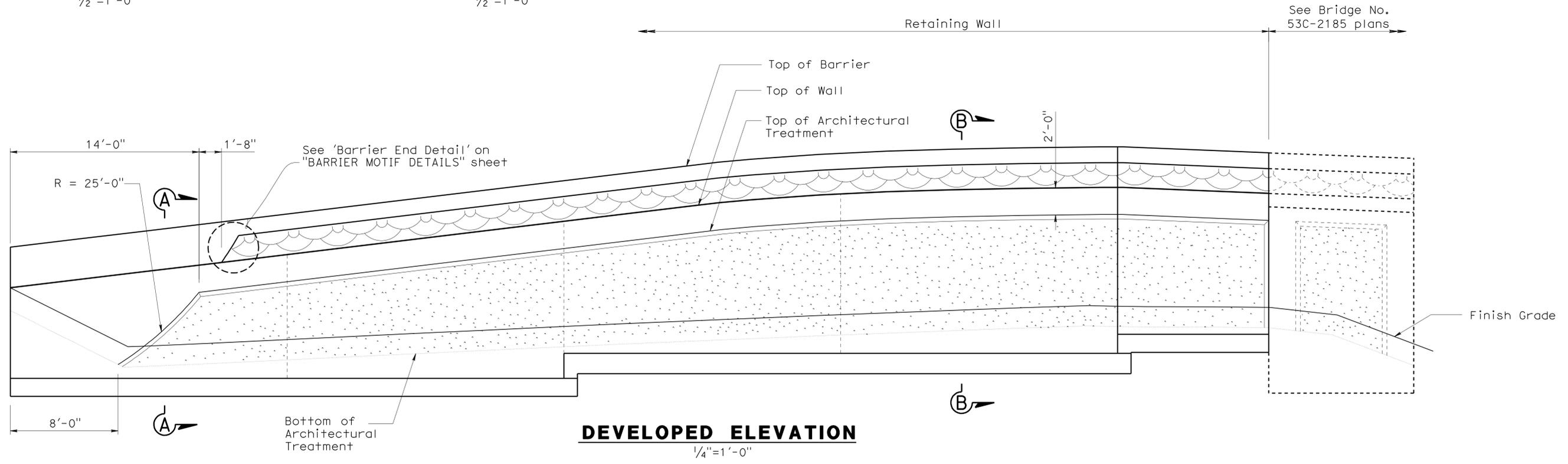
SPLIT SLATE TEXTURE
No Scale



DETAIL A
No Scale

Notes:
 All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL.

Legend:
 [Split Slate Texture] Split Slate Texture Concrete Surface
 [Smooth Concrete Surface] Smooth Concrete Surface



DEVELOPED ELEVATION
1/4"=1'-0"

DESIGN	BY Javier Chavez	CHECKED Isaac Tasabia
DETAILS	BY Pauline Tong	CHECKED Javier Chavez
QUANTITIES	BY Jay Posey	CHECKED Tom Bittermann

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

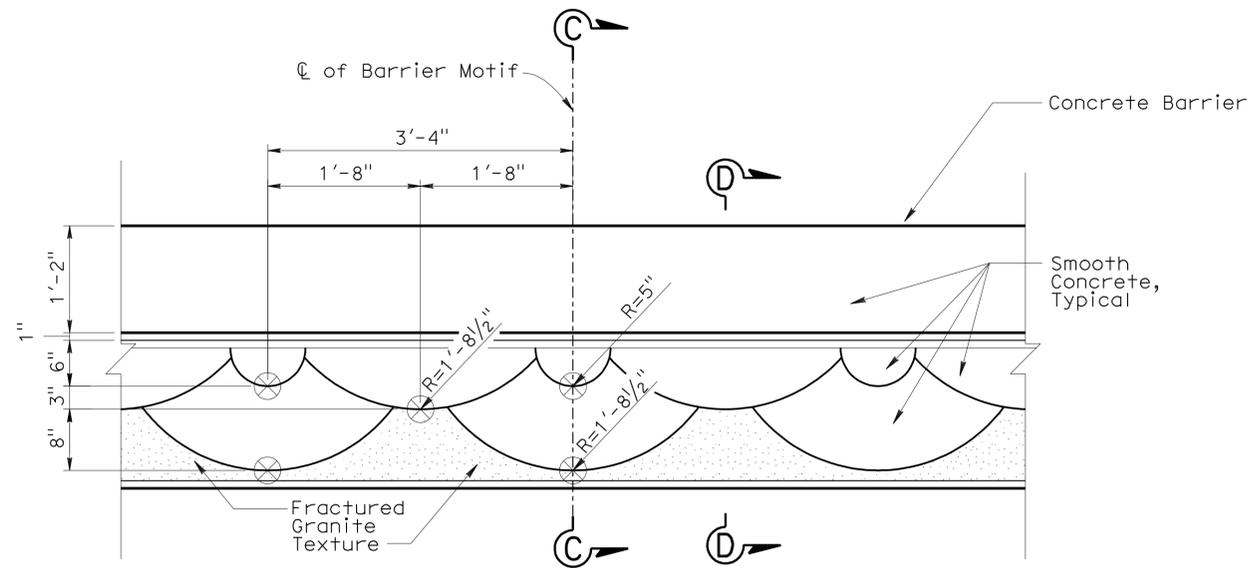
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	RW12
POST MILE	2.43

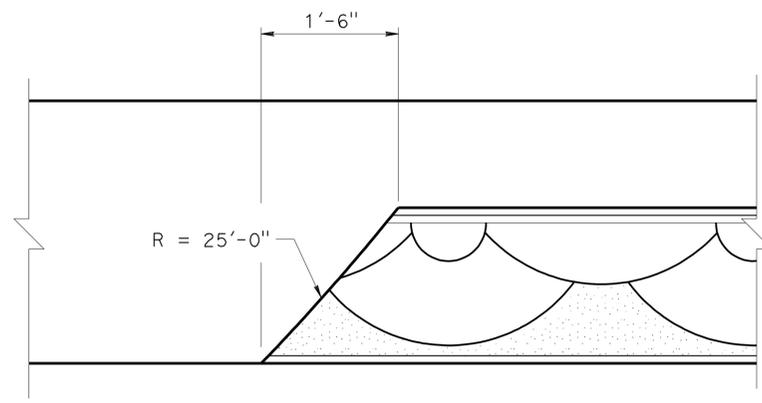
RETAINING WALL NO. 12
ARCHITECTURAL TREATMENT DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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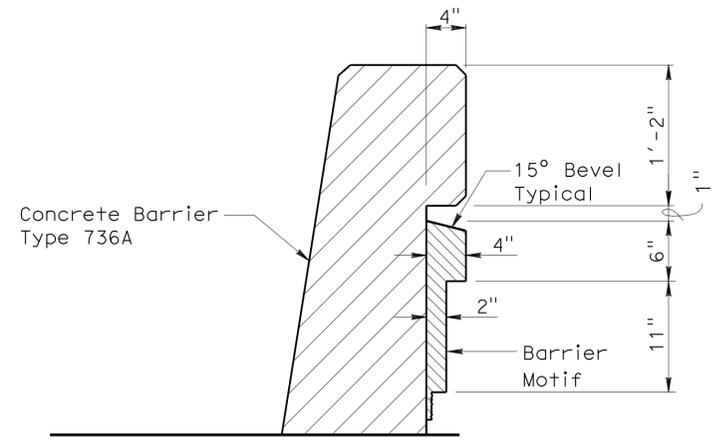
Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
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ELEVATION - BARRIER MOTIF
No Scale

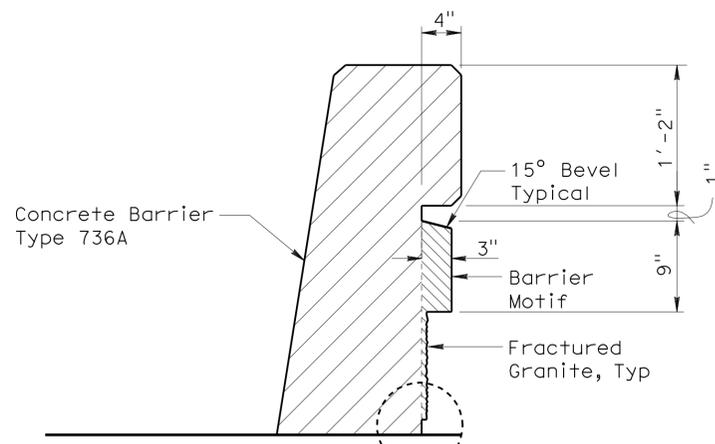


BARRIER END DETAIL
No Scale



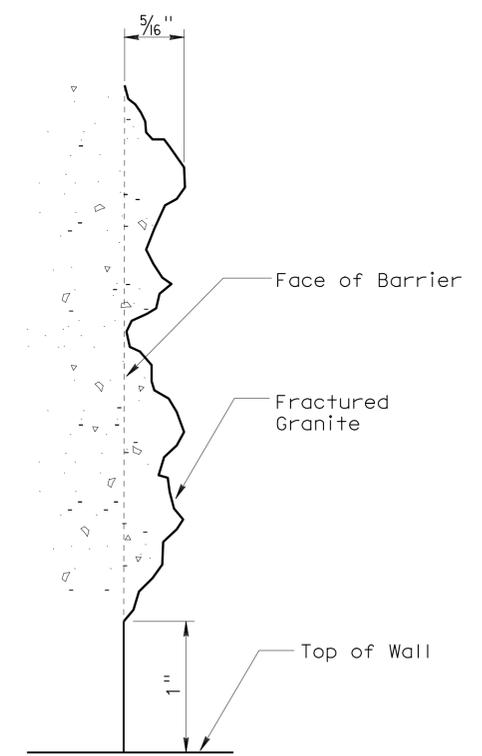
Note: Barrier Type 736A shown
Barrier Type 26 Mod similar

SECTION C-C
No Scale



Note: Barrier Type 736A shown
Barrier Type 26 Mod similar

SECTION D-D
No Scale



DETAIL B
No Scale

DESIGN	BY Javier Chavez	CHECKED Issac Tasabia
DETAILS	BY Pauline Tong	CHECKED Javier Chavez
QUANTITIES	BY Jay Posey	CHECKED Tom Bittermann

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

BRIDGE NO.	RW12
POST MILE	2.43

RETAINING WALL NO. 12
BARRIER MOTIF DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	581	602

REGISTERED CIVIL ENGINEER		DATE
Phu V. Nguyen		3-2-11
PLANS APPROVAL DATE		
6-27-11		
No. 60358		Exp. 6-30-12
CIVIL		STATE OF CALIFORNIA

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STANDARD PLANS
Dated May 2006

- A10A ACRONYMS AND ABBREVIATIONS (A-L)
- A10B ACRONYMS AND ABBREVIATIONS (M-Z)
- A62B LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL- BRIDGE SURCHARGE AND WALL
- B0-3 BRIDGE DETAILS
- B2-8 RETAINING WALL DETAILS NO 1
- B11-56 CONCRETE BARRIER TYPE 736

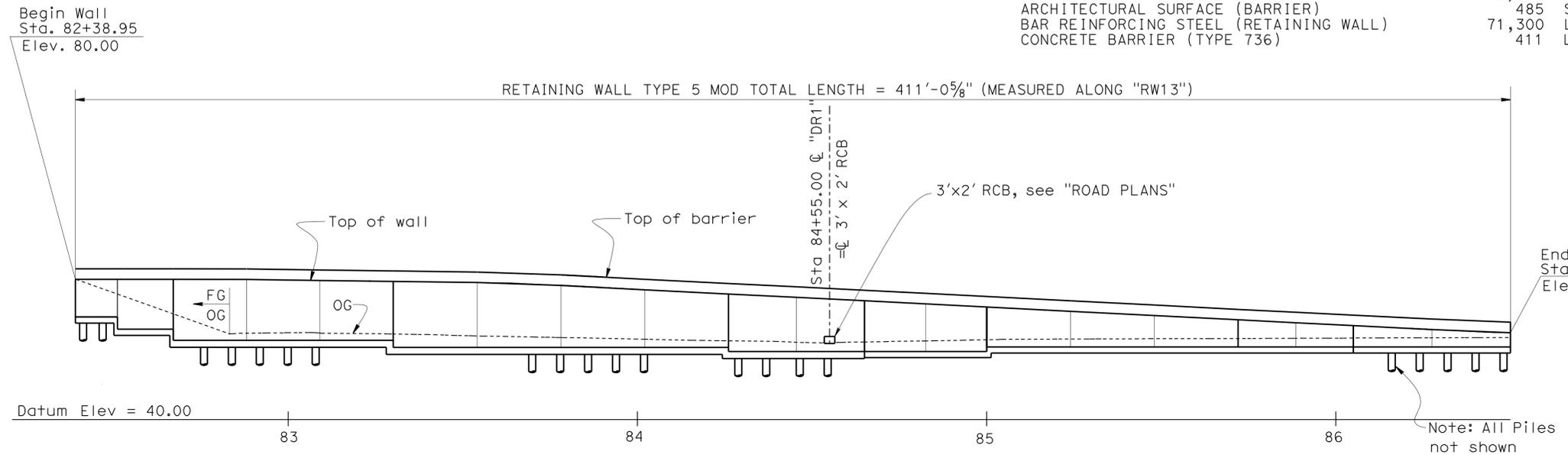
LEGEND

- Indicates new Structure
- Indicates Existing Structure
- Standard Plan Sheet No.
- Detail No.

- Notes:
- For details and dimensions not shown, see Structure Plan sheets.
 - For pile locations, see "Structure Plan" sheets.
 - For 'General notes', see "Structure Plan" sheets.

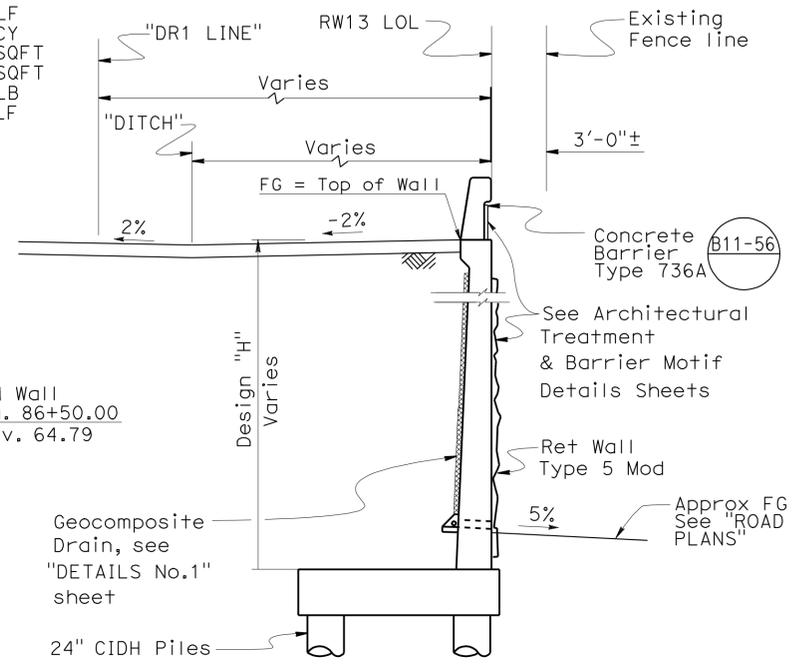
QUANTITIES

STRUCTURE EXCAVATION (RETAINING WALL)	810	CY
STRUCTURE BACKFILL (RETAINING WALL)	1,595	CY
24" CAST-IN-DRILLED-HOLE CONCRETE PILING	4,673	LF
STRUCTURAL CONCRETE, RETAINING WALL	535	CY
ARCHITECTURAL TREATMENT	3,385	SQFT
ARCHITECTURAL SURFACE (BARRIER)	485	SQFT
BAR REINFORCING STEEL (RETAINING WALL)	71,300	LB
CONCRETE BARRIER (TYPE 736)	411	LF



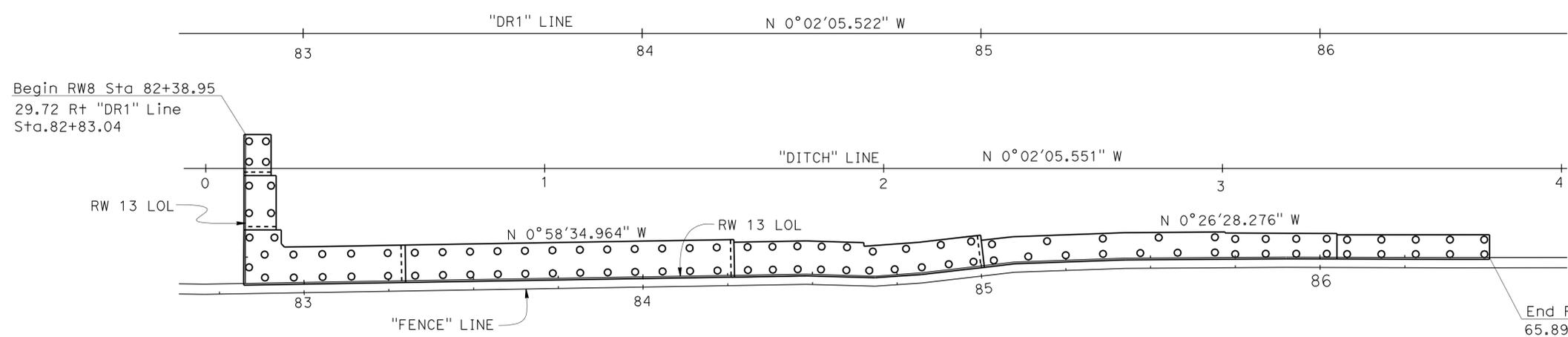
DEVELOPED ELEVATION

1"=20'



TYPICAL SECTION

NO SCALE



PLAN

1"=20'

Note:
All Survey Data not Shown

INDEX TO PLANS

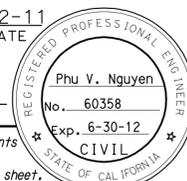
- GENERAL PLAN
- STRUCTURE PLAN NO. 1
- STRUCTURE PLAN NO. 2
- DETAILS NO. 1
- DETAILS NO. 2
- DETAILS NO. 3
- DETAILS NO. 4
- ARCHITECTURAL TREATMENT DETAILS
- BARRIER MOTIF DETAILS

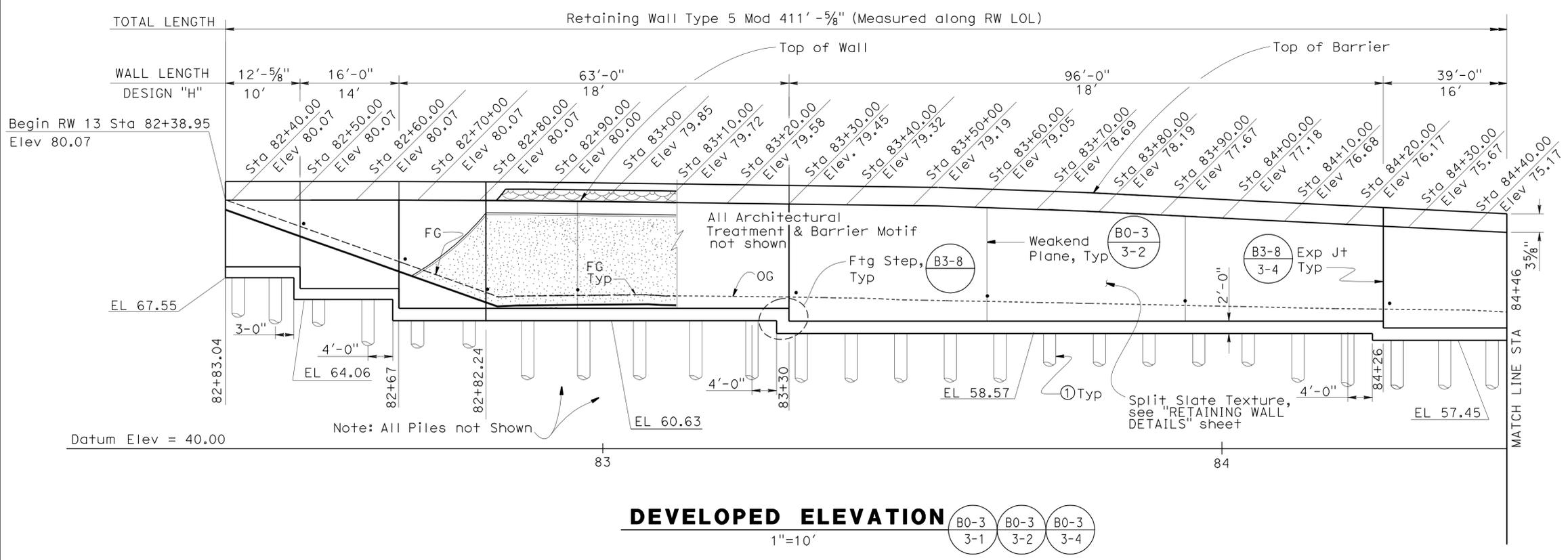
Ramin Rashedi DESIGN ENGINEER	DESIGN	BY RUPERD WILSON	CHECKED Matt Schott	LAYOUT	BY Ruperd Wilson	CHECKED Matt Schott	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	53E0159	RETAINING WALL NO. 13 GENERAL PLAN	
	DETAILS	BY JINLI GUO	CHECKED Matt Schott		BY Theresa Nedwick	CHECKED Theresa Nedwick			POST MILE	1.5		
	QUANTITIES	BY RUPERD WILSON	CHECKED Matt Schott		PLANS AND SPECS	Theresa Nedwick			CU 07227 EA 215911	REVISION DATES		5/28/10 3-8-11 5/13/10 6/3/10 6-14-10 8/10/10 1-14-11
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS								0	1	2	3	SHEET 1 OF 9

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

FILE => rw13-a-gp.dgn

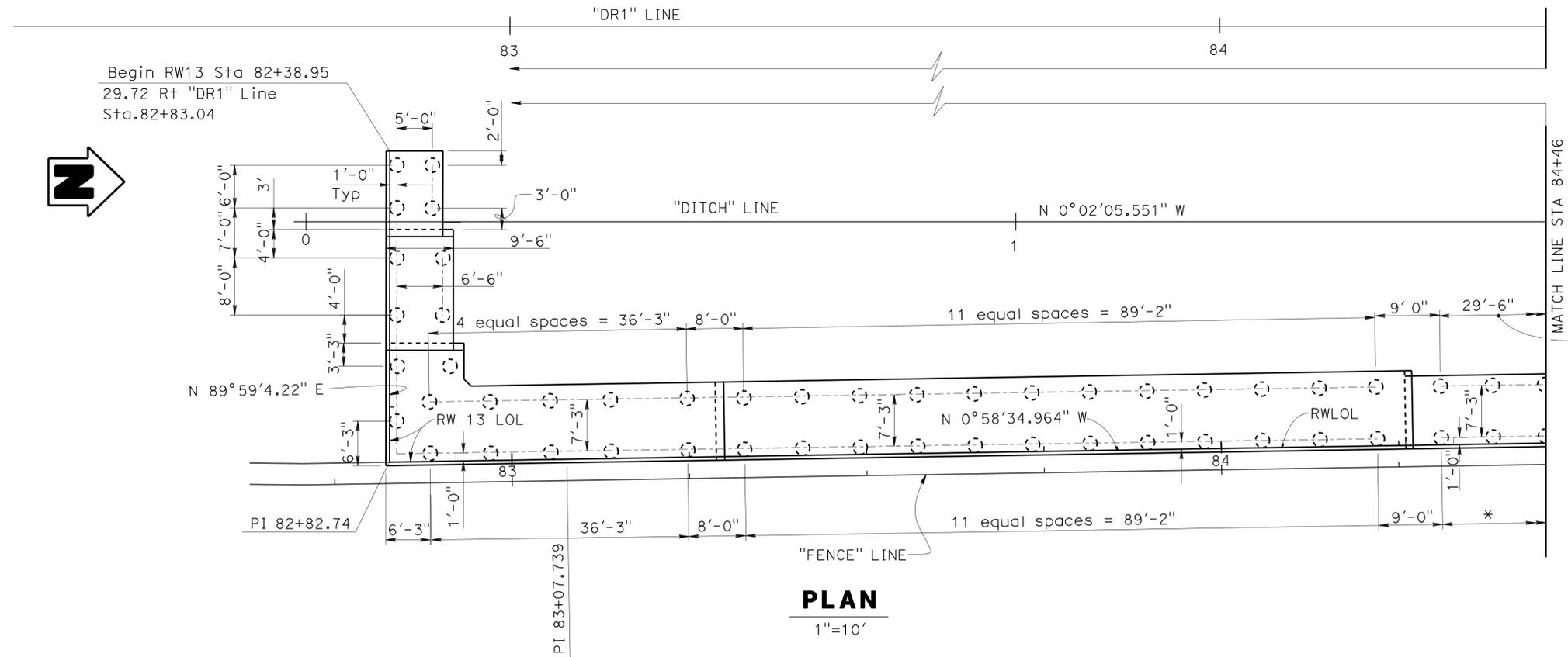
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	582	602


 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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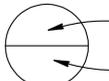
DEVELOPED ELEVATION
1"=10'

- Notes:
- ① Indicates 200 Kip 24" Dia CIDH Pile Pile Tip Elevation = 10.00'
 - ② Expansion Joint spacing 96' OC unless otherwise noted.



PLAN
1"=10'

LEGEND

- Indicates new Structure
- Indicates Existing Structure
-  Standard Plan Sheet No.
-  Detail No.

* - See "STRUCTURAL PLAN NO. 2" sheet for pile spacing

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY RUPERD WILSON	CHECKED MATT SCHOTT	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	53E0159	RETAINING WALL NO. 13 STRUCTURE PLAN NO. 1
	DETAILS	BY JINLI GUO	CHECKED MATT SCHOTT			POST MILE	1.5	
	QUANTITIES	BY RUPERD WILSON	CHECKED MATT SCHOTT			CU 07227 EA 215911	REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	FILE => rw13-c-sp01.dgn	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 2 OF 9

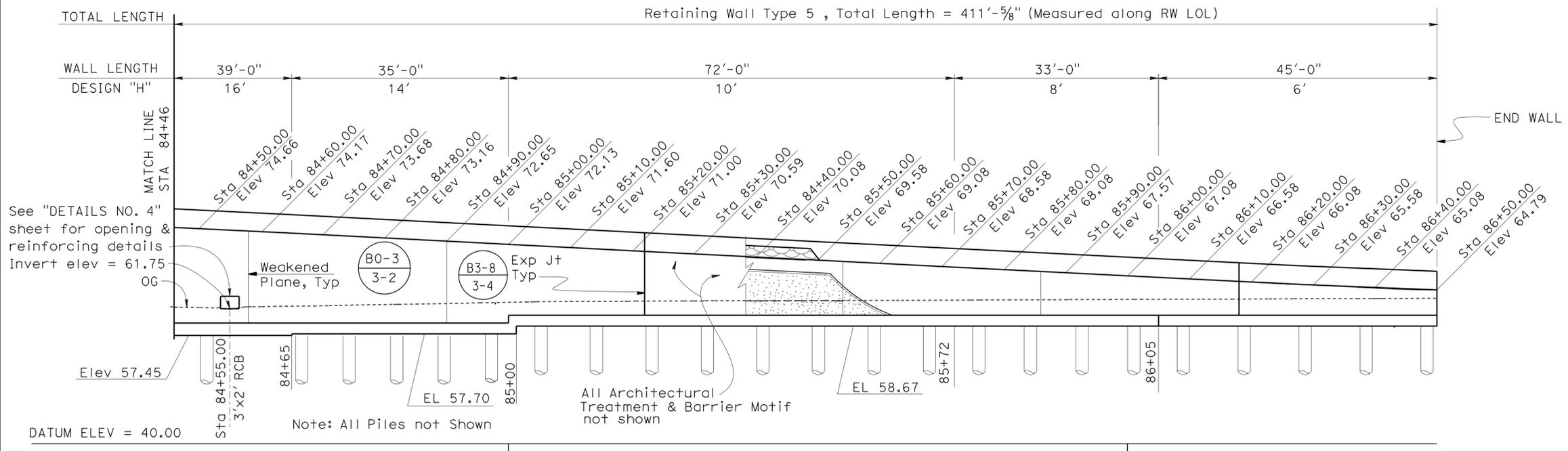
USERNAME => hprifice DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	583	602

REGISTERED CIVIL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE

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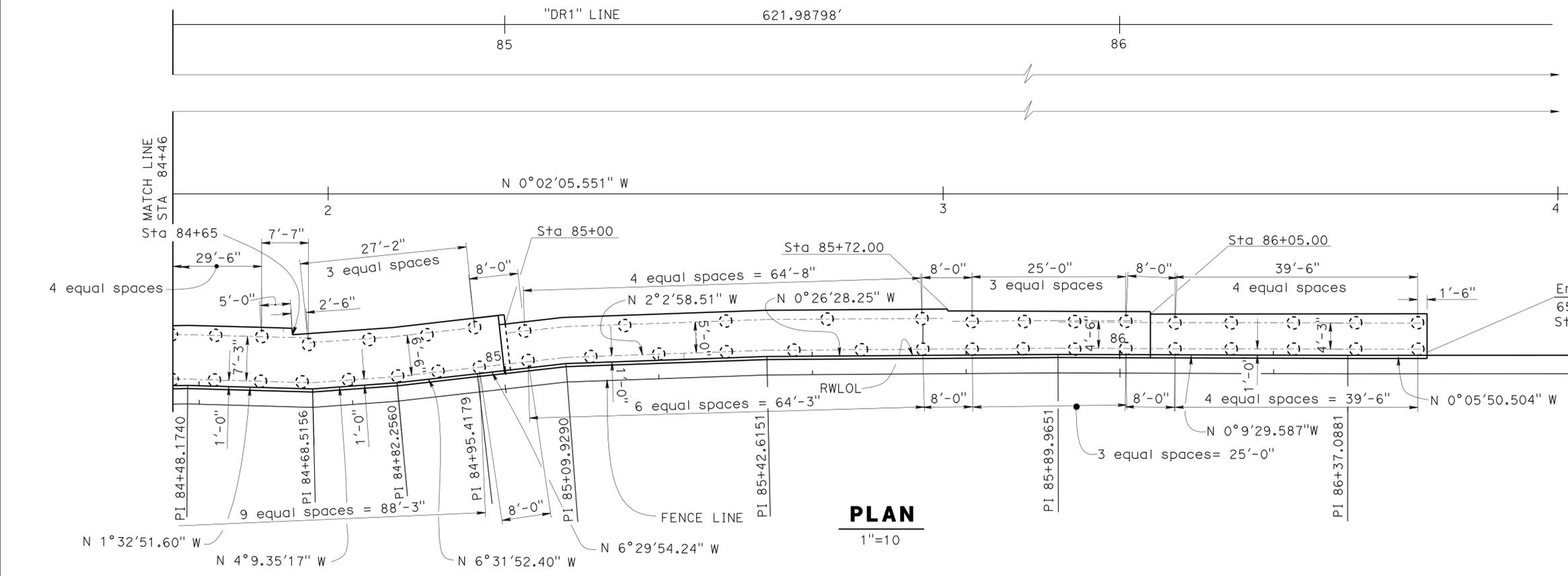
DEVELOPED ELEVATION
1"=10'

LEGEND

————— Indicates new Structure
 - - - - - Indicates Existing Structure

⊙ Standard Plan Sheet No.
 ⊙ Detail No.

- Notes:
- 1 indicates 200 Kip 24" Dia. CIDH Pile
Pile tip Elevation = 10.00'
 - 2 Expansion Joint spacing 96' o.c. unless otherwise noted.

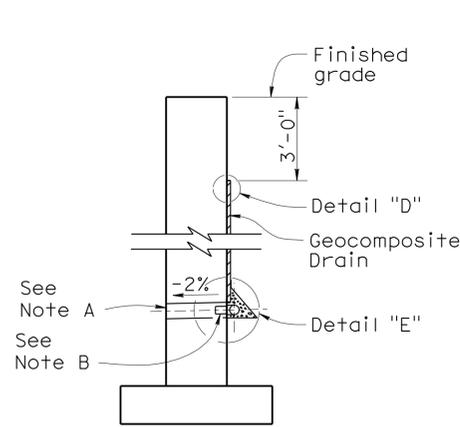


PLAN
1"=10'

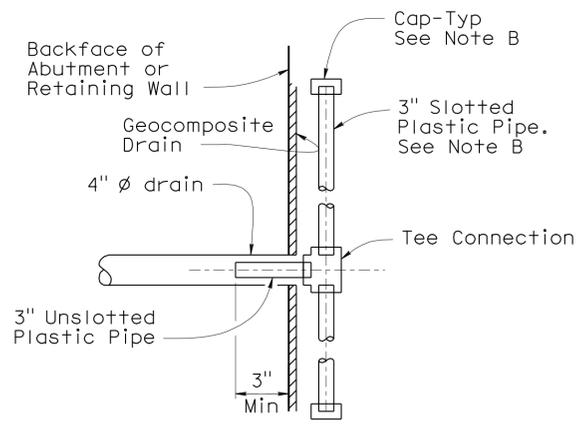
DESIGN BY RUPERT WILSON CHECKED MATT SCHOTT DETAILS BY JINLI GUO CHECKED MATT SCHOTT QUANTITIES BY RUPERT WILSON CHECKED MATT SCHOTT	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0159 POST MILE 1.5	RETAINING WALL NO. 13 STRUCTURE PLAN NO. 2
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 07227 EA 215911	REVISION DATES 5/12/10 5/17/10 5/17/10 6/14/10 6/16/10 8/06/10 9/20/10	SHEET 3 OF 9
	STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	FILE => rw13-c-sp02.dgn	DISREGARD PRINTS BEARING EARLIER REVISION DATES	USERNAME => hprifice DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:33

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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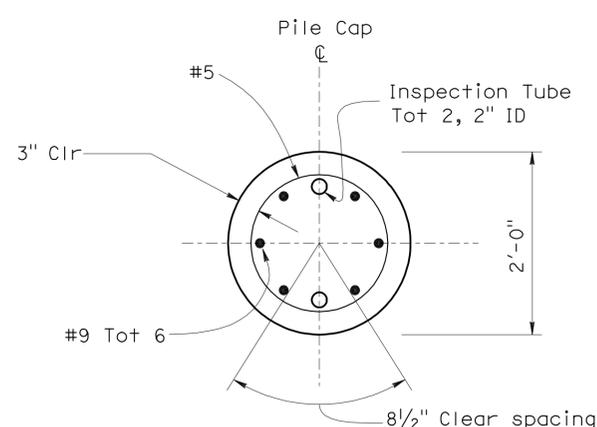
REGISTERED CIVIL ENGINEER
 3-2-11 DATE
 6-27-11 PLANS APPROVAL DATE
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



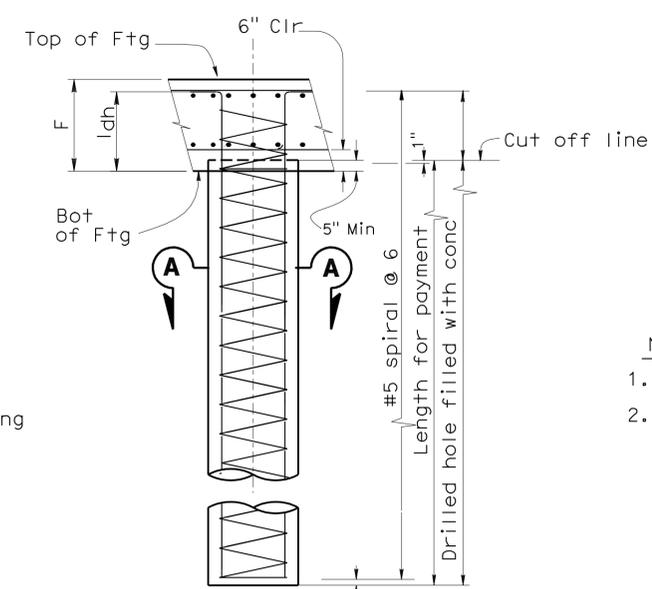
WALL SECTION



SECTION K-K



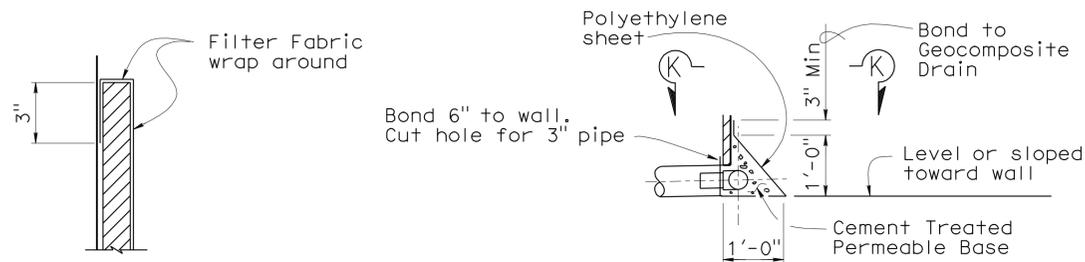
SECTION A-A



CIDH PILE

1/2"=1'-0"

- NOTES:**
1. Pile Tip is at 10' elevation.
 2. Lapped splices in spiral pile reinforcement shall be lapped at least 80 bar diameters. Spiral pile reinforcement at splices and at ends shall be terminated with a 135° hook with a 6" tail around a longitudinal bar.
 3. Reinforcement extending into footing shall be hooked as required to provide clearance top of footing.
 4. Design Capacity = 200 kips



DETAIL "D"

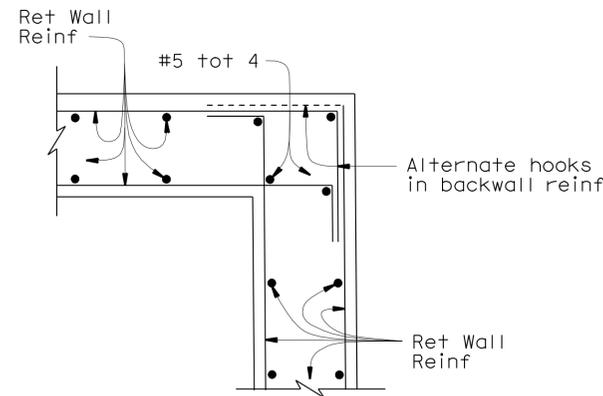
DETAIL "E"

WEEP HOLE AND GEOCOMPOSITE DRAIN

NO SCALE

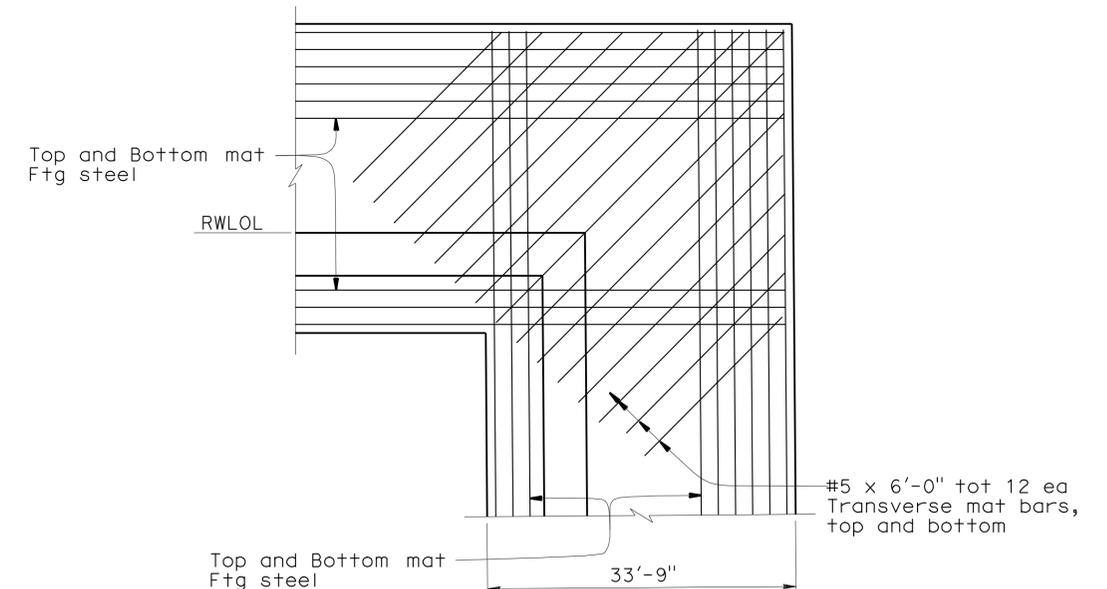
Notes:

- 4" ϕ drains at intermediate sag points and at 25'-0" center to center (9'-0" c-c for Type 3 and 9'-2" c-c for Type 4 retaining walls). For walls adjacent to sidewalks or curbs, provide 4" ϕ cast iron or asbestos cement pipe under the sidewalk to discharge through curb face. Exposed wall drains shall be located 3" \pm above finished grade.
- Geocomposite drain, cement treated permeable base, and 3" ϕ slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" ϕ drain.
- Connect the low end of plastic pipe to the main outlet pipe as applicable.



STEM CORNER DETAIL

No Scale



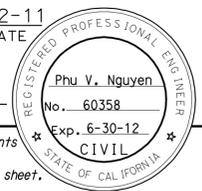
Note: Match Ret Wall Stem steel (b - d) in wall corner detail

FTG CORNER DETAIL

No Scale

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY RUPERD WILSON	CHECKED MATT SCHOTT	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 13						
	DETAILS	BY JINLI GUO	CHECKED MATT SCHOTT			53E0159	DETAILS NO. 1						
	QUANTITIES	BY RUPERD WILSON	CHECKED MATT SCHOTT			POST MILE	1.5						
				CU 07227 EA 215911		DISREGARD PRINTS BEARING EARLIER REVISION DATES	5/22/10	6/3/10	6/14/10	6/16/10	12-9-10	SHEET 4	OF 9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	585	602


 3-2-11
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DESIGN H	6'	8'	10'	12'	14'	16'	18'
W	7'-3"	7'-6"	8'-0"	8'-6"	9'-6"	10'-3"	11'-0"
F	1'-9"	1'-9"	1'-9"	1'-9"	1'-9"	2'-0"	2'-0"
M	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
N	5'-3"	5'-6"	6'-0"	6'-6"	7'-6"	8'-3"	9'-0"
CONFIGURATION	I	I	I	I	I	I	I

CONT = CONTINUOUS
 * = a AND b [SHORT d & d] BARS ARE BUNDLED TOGETHER.
 ** = ALTERNATE a AND b BARS AS SHOWN IN DETAIL A.
 ALTERNATE SHORT d AND d BARS.

DESIGN H	STEM WITH HAUNCH						
	6'	8'	10'	12'	14'	16'	18'
STEM BATTER	0	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12
STEM THICKNESS @ TOP	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
a BARS				#6@18**	#7@12**	#8@12**	#9@12**
Y				8'-0"	6'-6"	7'-6"	8'-0"
b BARS	#5 @ 12	#5 @ 12	#5 @ 9	#6@18**	#7@12**	#8@12**	#9@12**
Y	CONT	CONT	CONT	CONT	10'-6"	13'-0"	15'-0"
c BARS					#6 @ 12	#6 @ 12	#6 @ 12
SHORT d BARS					#8@12**	#8@12**	#9@12**
X					5'-6"	6'-6"	6'-6"
d BARS	#5 @ 12	#5 @ 9	#6 @ 9	#7 @ 9	#8@12**	#8@12**	#9@12**
X	CONT	CONT	CONT	CONT	CONT	CONT	CONT
TOTAL e BARS	12 #6	12 #6	10 #5	12 #5	12 #5	14 #5	14 #5

DESIGN DATA

DESIGN: LOAD FACTOR DESIGN (LFD)

CONCRETE: REINFORCED CONCRETE, $f_c = 3600$ psi
 $f_y = 60000$ psi

LOADING CASE:
 LEVEL GROUND WITH 240 psf LIVE LOAD SURCHARGE AND 16' SOUNDWALL.
 SEISMIC LOAD DEAD LOAD = 0.3 DEAD LOAD
 WIND LOAD = 30 psf
 DEAD LOAD OF SOUNDWALL = 1414 lb/lf
 DEAD LOAD OF BARRIER = 372 lb/lf

SEISMIC LOAD: SOIL
 $K_h = 0.3g$
 $K_v = 0.0$
 K_{ae} : MONOBE-OKABE METHOD

SOIL: $\phi = 34^\circ$ $\gamma = 120$ pcf
 EQUIVALENT FLUID PRESSURE:
 = 36 pcf MAX. FOR DETERMINATION OF TOE PRESSURE
 = 27 pcf MAX. FOR DETERMINATION OF HEEL PRESSURE

LOAD COMBINATIONS:
 GROUP A : $\beta D + 1.7E + 1.7SC$
 GROUP B : $\beta D + 1.7E + 1.3W$
 GROUP C :
 STEM : $1.0D + 1.0E + 1.0EQD + 1.0EQE$
 FOOTING : $D + PYM$

WHERE : $\beta = 1.0$ OR 1.3 WHICHEVER CONTROLS DESIGN

D = DEAD LOAD
 E = LATERAL EARTH PRESSURE
 SC = LIVE LOAD SURCHARGE
 W = WIND LOAD
 EQD = SEISMIC DEAD LOAD
 EQE = SEISMIC LATERAL EARTH PRESSURE

- GENERAL NOTES**
- 200 KIP CAPACITY CIDH PILES WERE USED FOR DESIGN.
 - MINIMUM DISTANCE BETWEEN ANY TWO PILES = 2 PILE DIAMETERS.
MINIMUM EDGE OF FOOTING DIST IS 1'-6"
 - LATERAL RESISTANCE OF EACH PILE: = 30 kip
 - SEE STRUCTURAL PLANS FOR PILE SPACING.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY RUPERD WILSON	CHECKED MATT SCHOTT	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 13 DETAILS NO. 2	
	DETAILS	BY JINLI GUO	CHECKED MATT SCHOTT			53E0159		
	QUANTITIES	BY RUPERD WILSON	CHECKED MATT SCHOTT			POST MILE 1.5		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 5/27/10 6/08/10 6/14/10 6-16-10	SHEET 5 OF 9

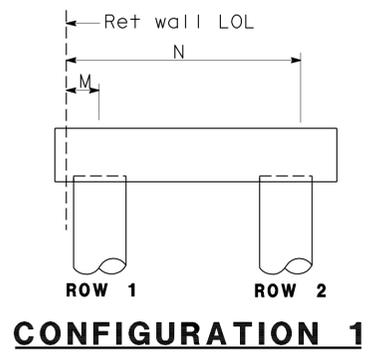
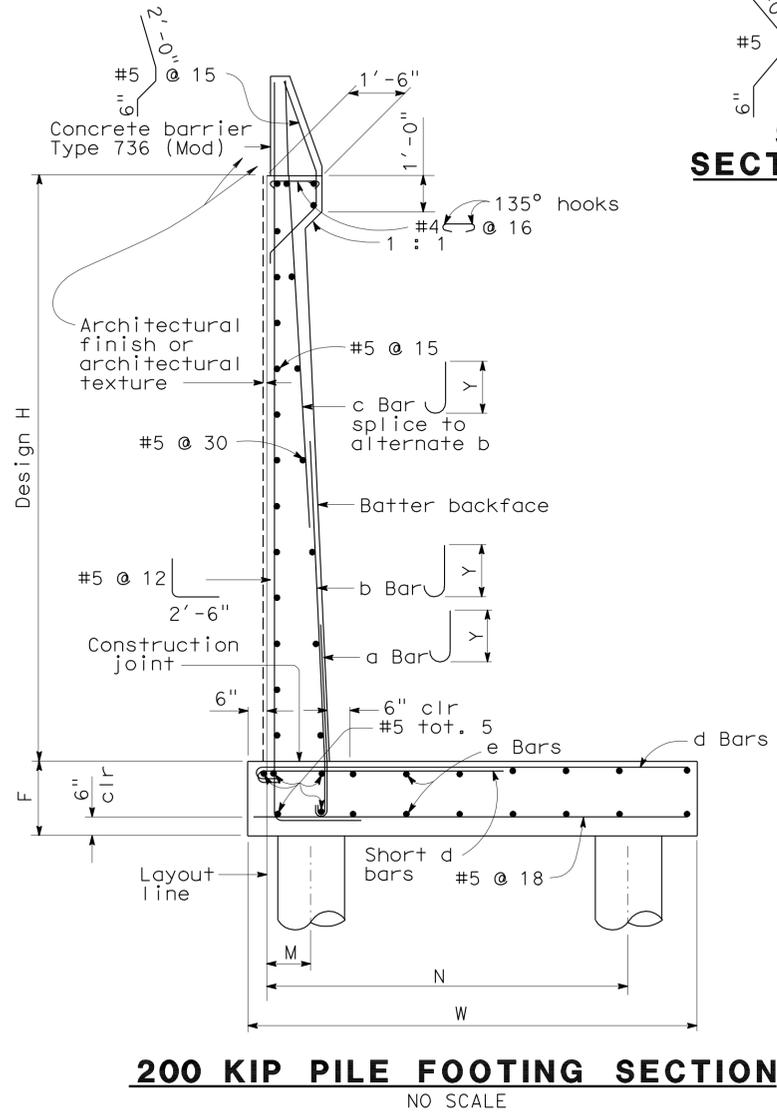
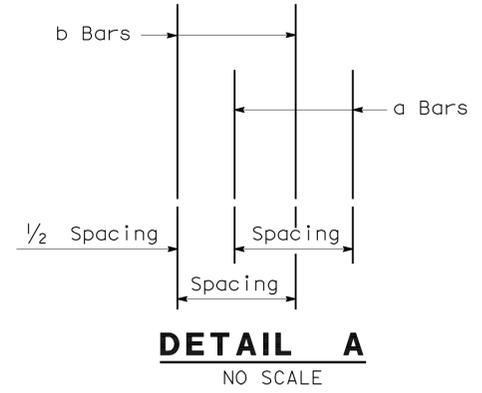
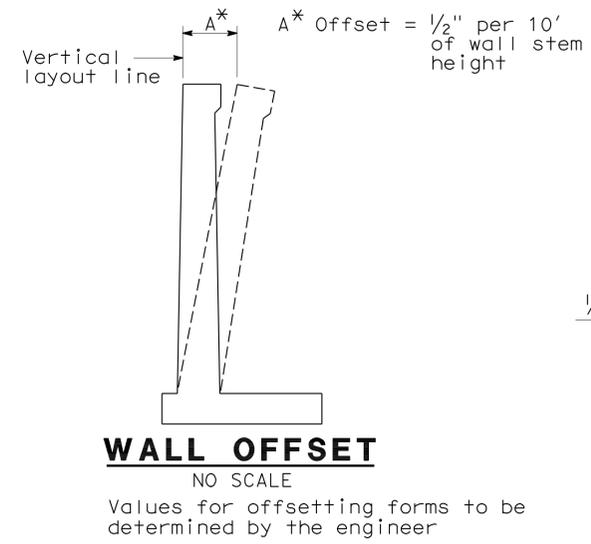
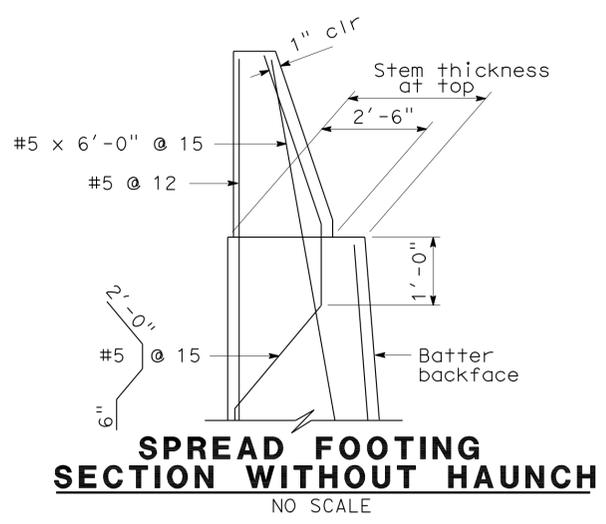
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	586	602

Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



GENERAL NOTES

1. For Retaining Wall & barrier architectural finish or texture see "ARCHITECTURAL TREATMENT DETAILS" & "BARRIER MOTIF DETAILS" sheets
2. See "DETAILS NO. 1" for details not shown & drainage notes
3. Footing cover, 2'-0" minimum

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY RUPERD WILSON	CHECKED MATT SCHOTT	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 13 DETAILS NO. 3		
	DETAILS	BY JINLI GUO	CHECKED MATT SCHOTT			53E0159			
QUANTITIES	BY RUPERD WILSON	CHECKED MATT SCHOTT	POST MILE 1.5						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 5/27/10 6-14-10 6-16-10	SHEET 6 OF 9

USERNAME => rptprice DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:33

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	587	602

Phu Vuong Nguyen 3-2-11
REGISTERED CIVIL ENGINEER DATE

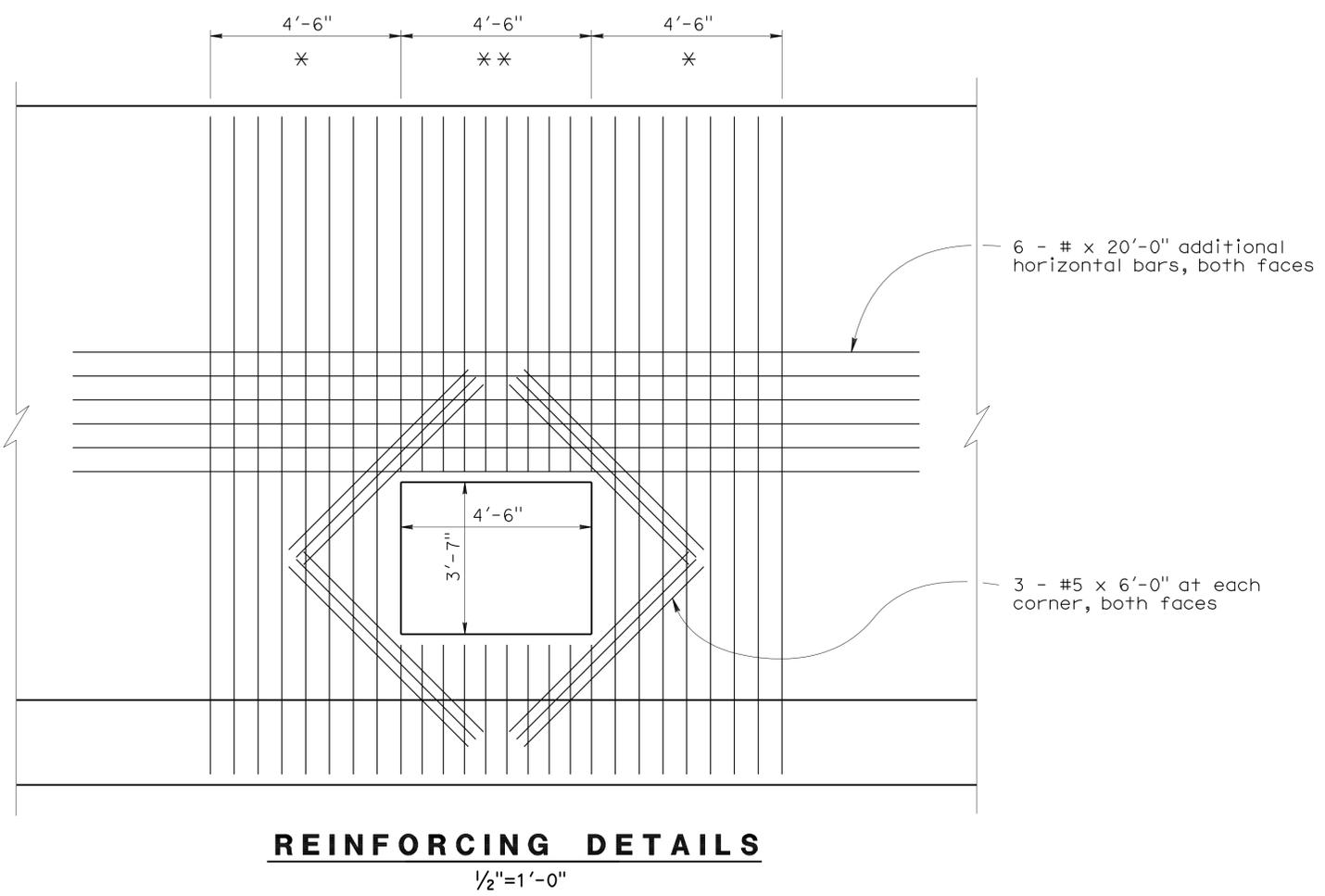
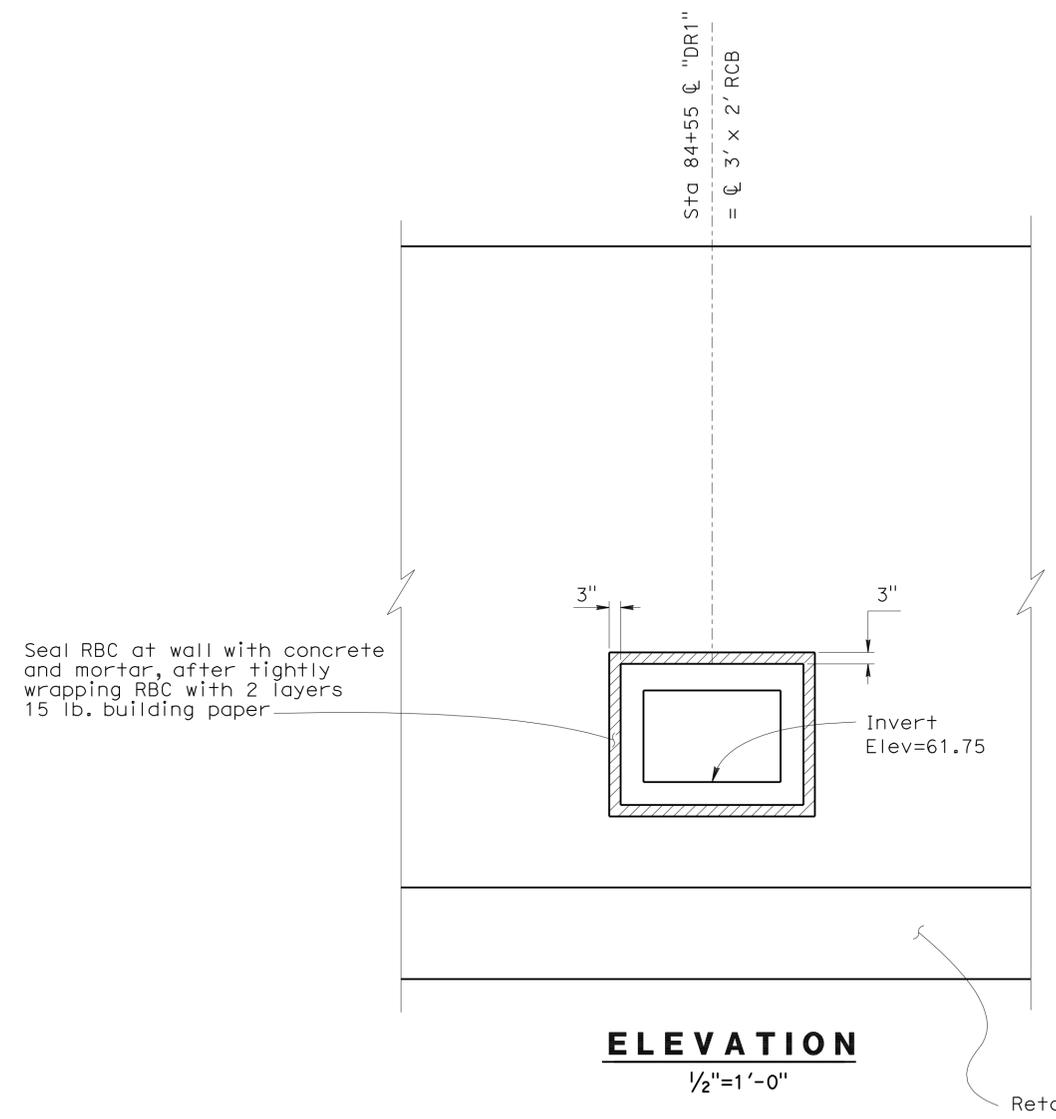
6-27-11
PLANS APPROVAL DATE

Phu V. Nguyen
No. 60358
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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* Standard vertical reinforcement plus additional vertical bars corresponding in size and number to bars cut by the opening. Place half on each side. Extend the additional bars into the footing the same as other vertical wall reinforcement and to a minimum of 60 bar diameters above the top of utility opening if wall height permits. Bundle bars as required.

** Standard vertical Reinforcement above and below opening (both faces)



STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Karen Doll	CHECKED Phu Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 13	
	DETAILS	BY Loren Goldthwait	CHECKED Karen Doll			53E0159		DETAILS NO. 4
	QUANTITIES	BY Karen Doll	CHECKED Phu Nguyen			POST MILE 1.5		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 7 OF 9

FILE => rw13-d-detail1s04.dgn

USERNAME => hpfrice DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:33

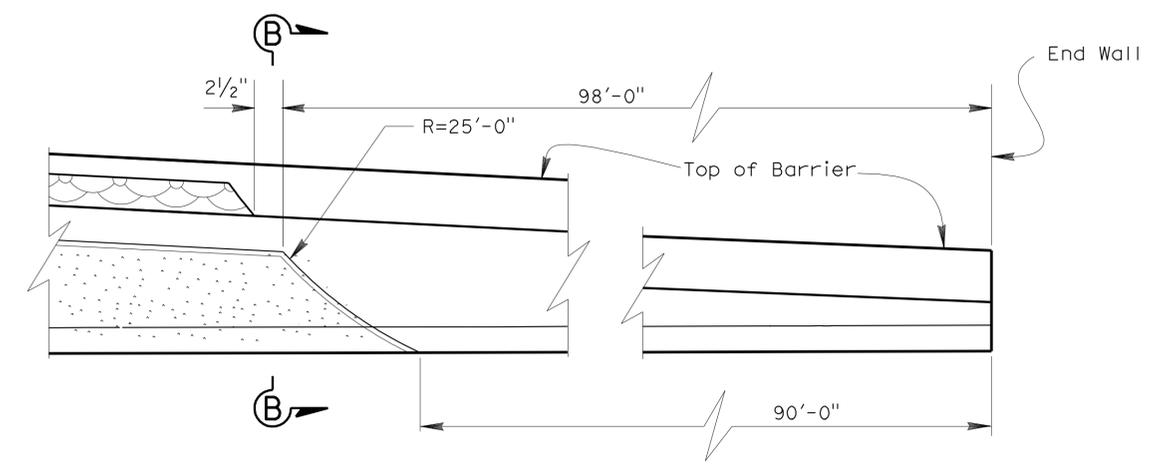
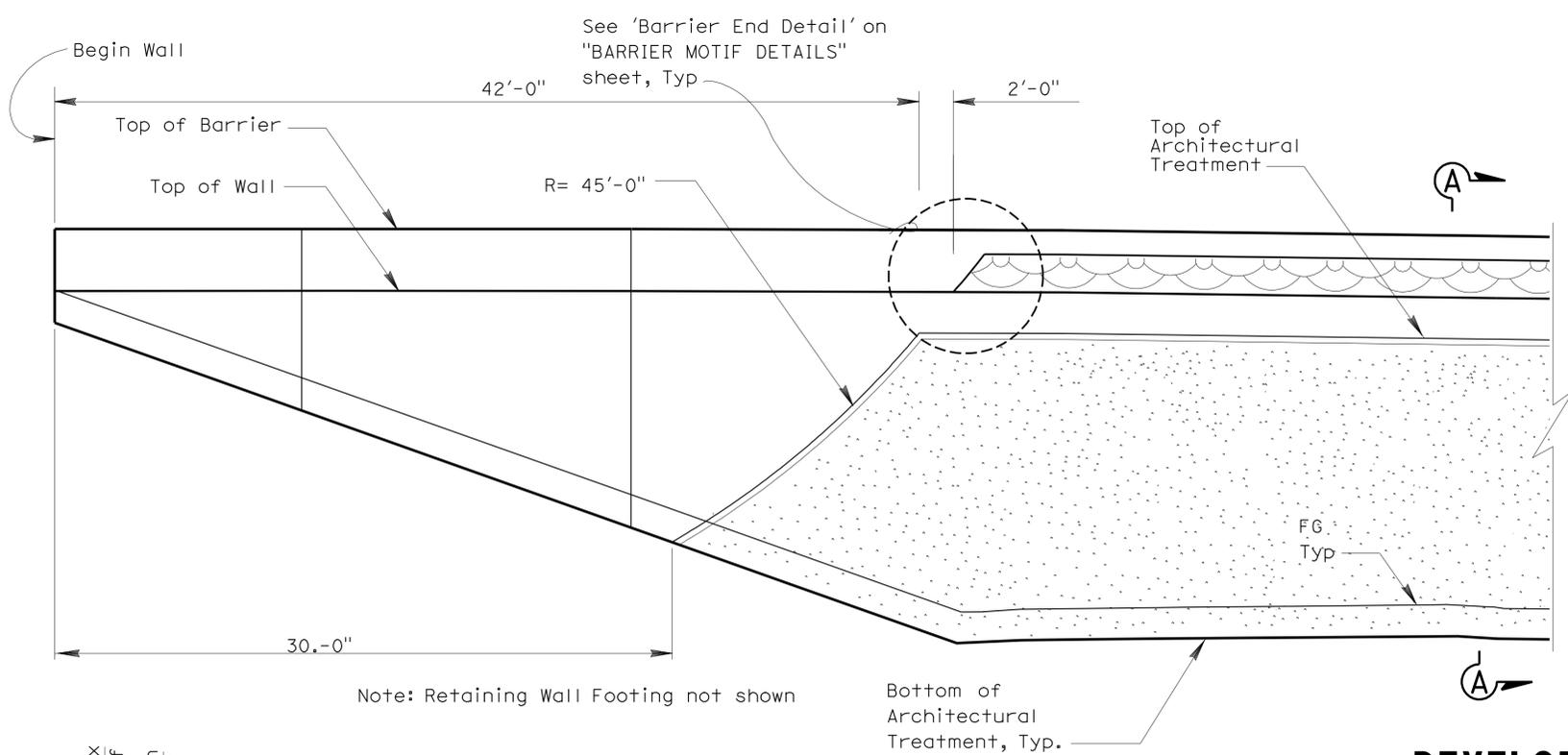
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	588	602

Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

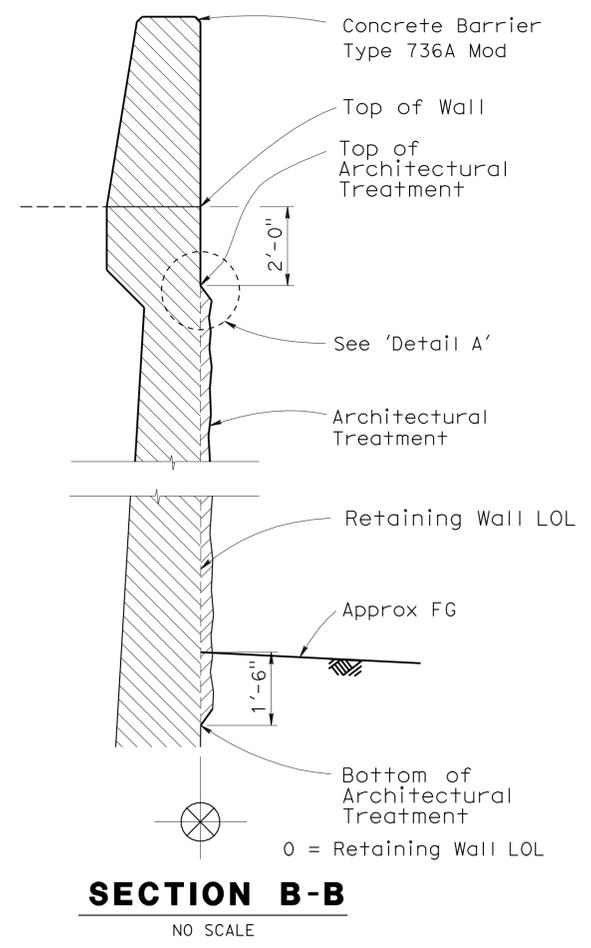
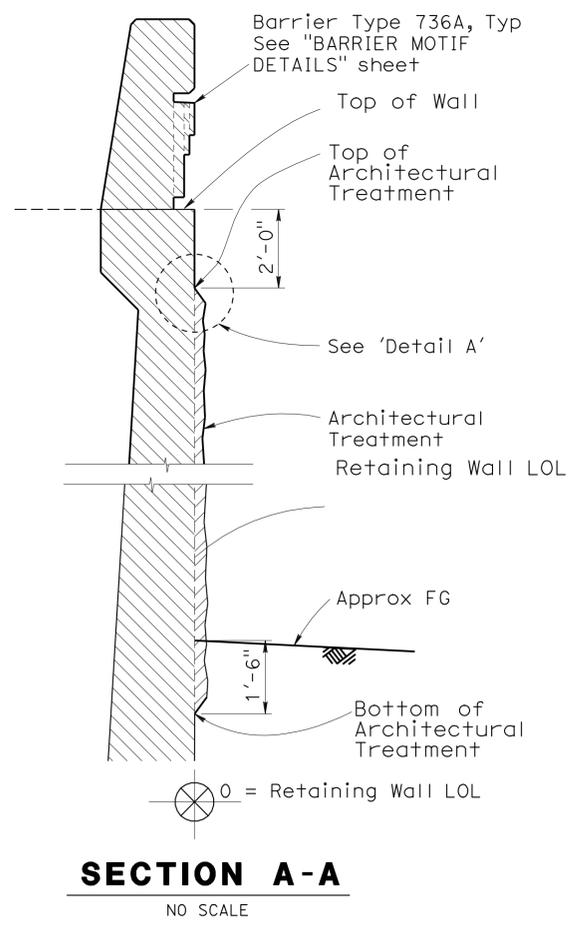
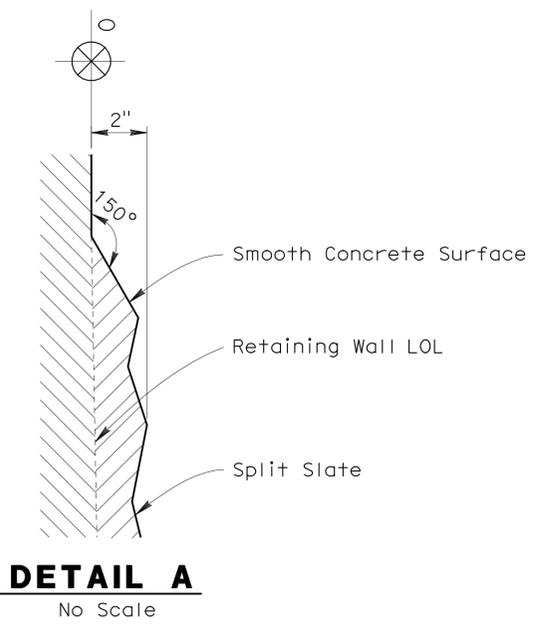
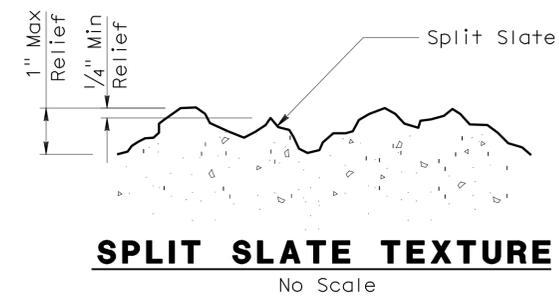
6-27-11
 PLANS APPROVAL DATE

Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

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DEVELOPED PART ELEVATION
 No Scale



DESIGN	BY Rupert Wilson	CHECKED Matthew Schott
DETAILS	BY JINLI GUO / R WILSON	CHECKED Matthew Schott
QUANTITIES	BY Matthew Schott	CHECKED Matthew Schott

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

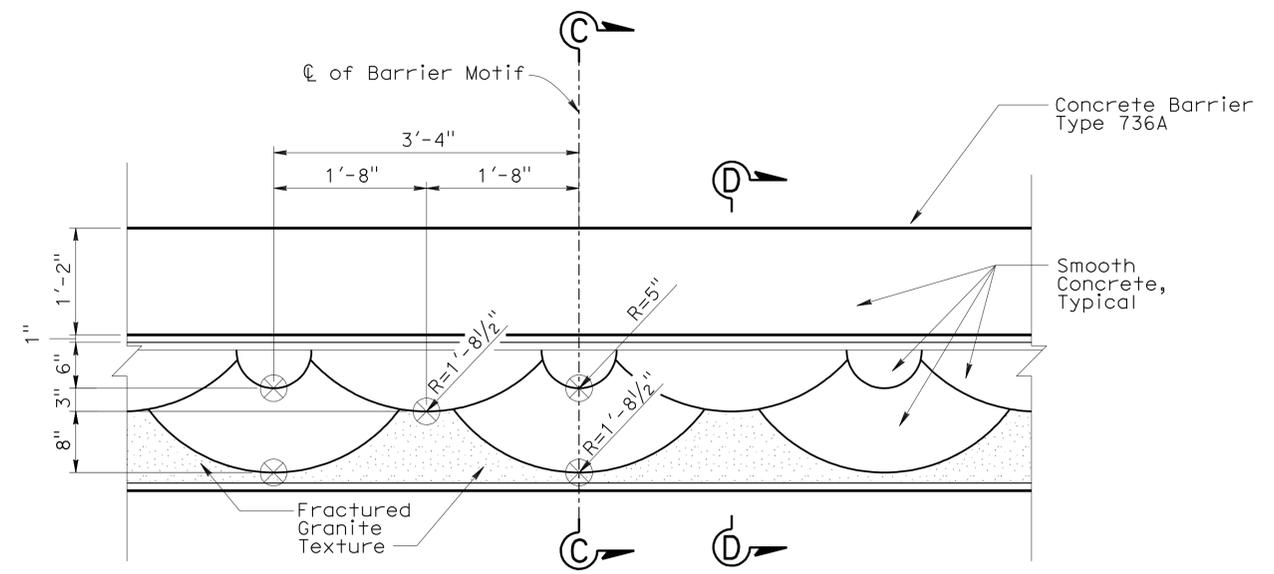
BRIDGE NO.	53E0159
POST MILE	1.5

RETAINING WALL NO. 13
ARCHITECTURAL TREATMENT DETAILS

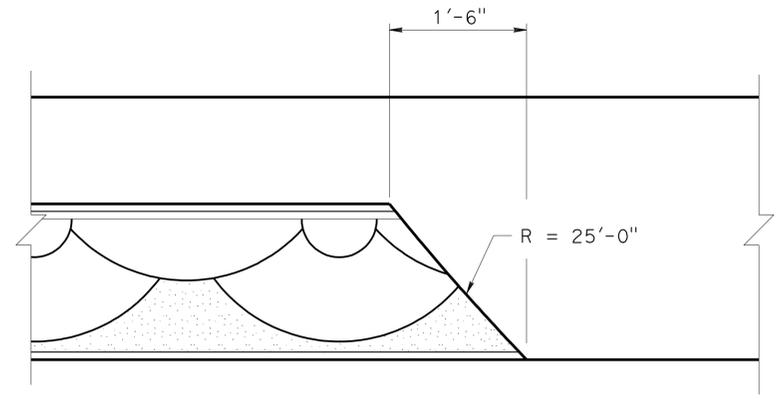
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	589	602

Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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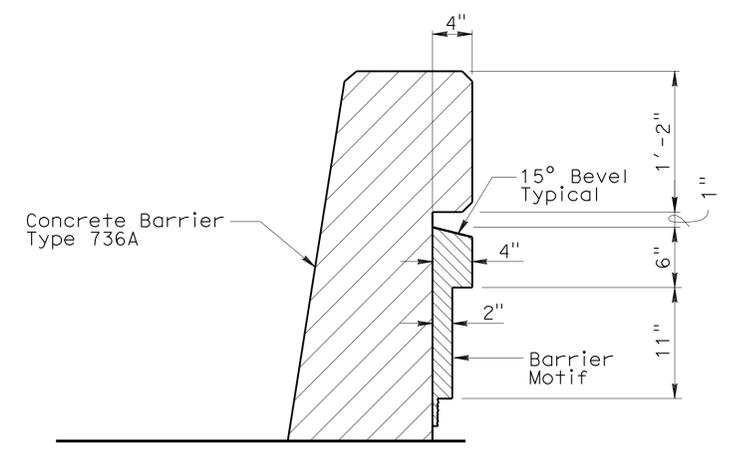
REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



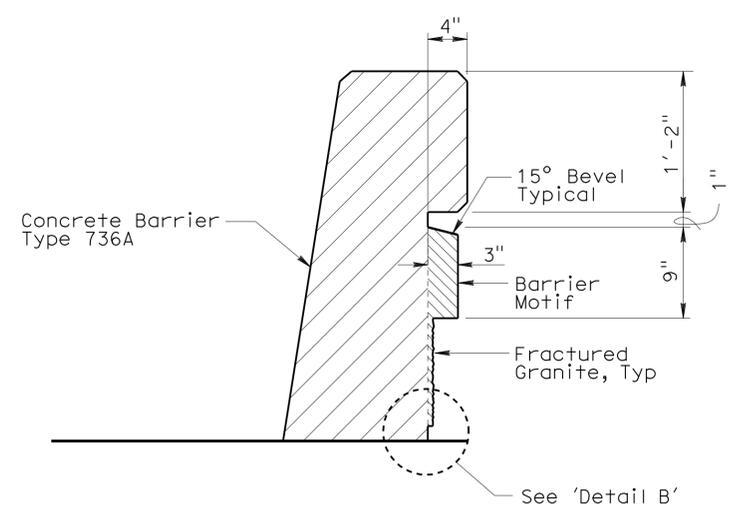
ELEVATION - BARRIER MOTIF
No Scale



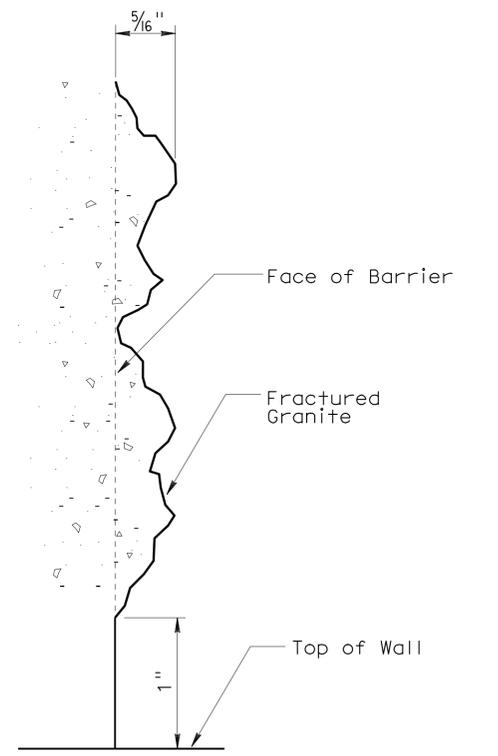
BARRIER END DETAIL
No Scale



SECTION C-C
No Scale



SECTION D-D
No Scale



DETAIL B
No Scale

DESIGN BY RUPERD WILSON DETAILS BY JINLI GUO QUANTITIES BY RUPERD WILSON	CHECKED MATT SCHOTT CHECKED MATT SCHOTT CHECKED MATT SCHOTT	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. 53E0159 POST MILE 1.5	RETAINING WALL NO. 13 BARRIER MOTIF DETAILS
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES 5/28/10 6-14-10
					SHEET 9 OF 9

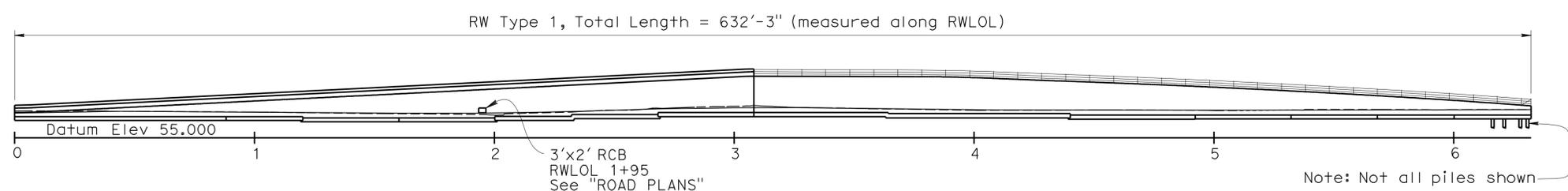
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	590	602

REGISTERED CIVIL ENGINEER
 DATE 3-2-11
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

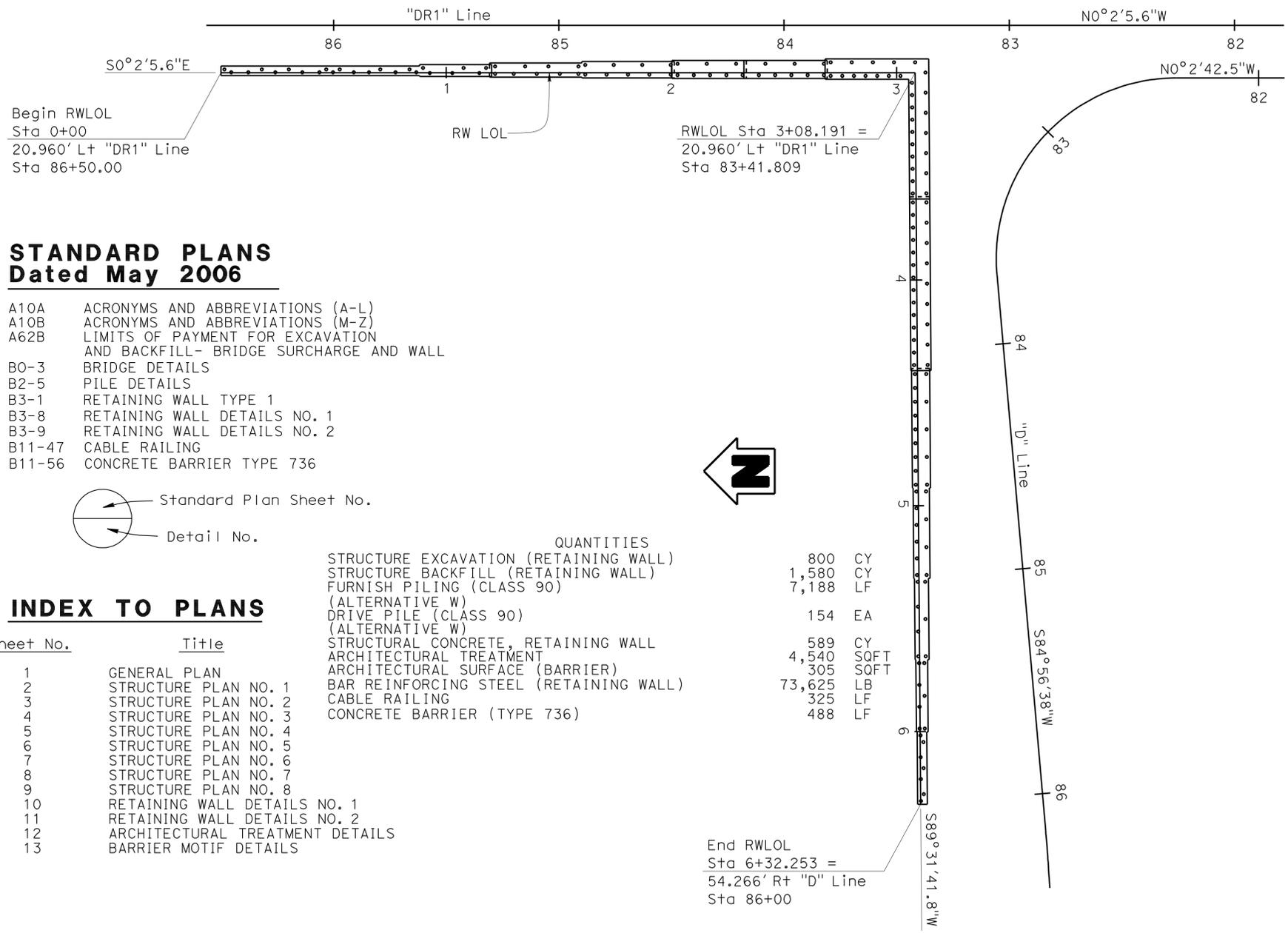
6-27-11
 PLANS APPROVAL DATE

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DEVELOPED ELEVATION

1"=30'-0"



PLAN

1"=30'-0"

STANDARD PLANS Dated May 2006

- A10A ACRONYMS AND ABBREVIATIONS (A-L)
- A10B ACRONYMS AND ABBREVIATIONS (M-Z)
- A62B LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL- BRIDGE SURCHARGE AND WALL
- B0-3 BRIDGE DETAILS
- B2-5 PILE DETAILS
- B3-1 RETAINING WALL TYPE 1
- B3-8 RETAINING WALL DETAILS NO. 1
- B3-9 RETAINING WALL DETAILS NO. 2
- B11-47 CABLE RAILING
- B11-56 CONCRETE BARRIER TYPE 736

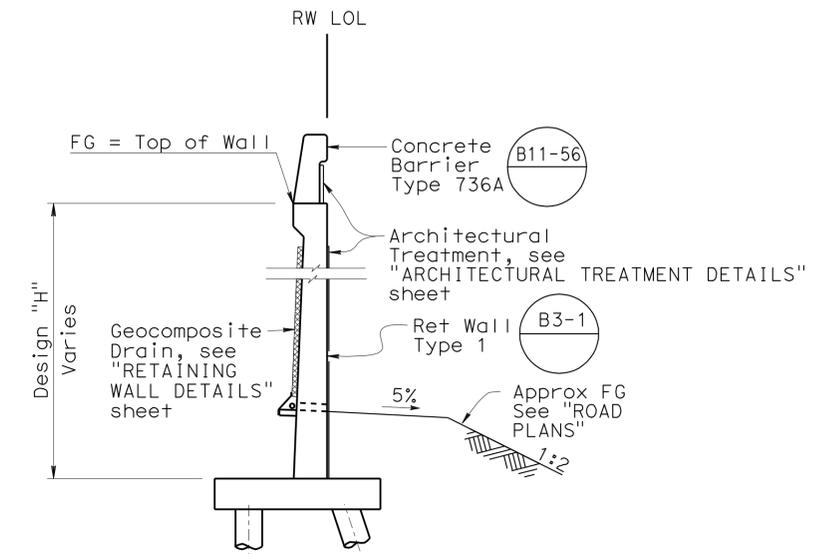
(Circle with arrow) Standard Plan Sheet No.
 (Circle with horizontal line) Detail No.

INDEX TO PLANS

Sheet No.	Title
1	GENERAL PLAN
2	STRUCTURE PLAN NO. 1
3	STRUCTURE PLAN NO. 2
4	STRUCTURE PLAN NO. 3
5	STRUCTURE PLAN NO. 4
6	STRUCTURE PLAN NO. 5
7	STRUCTURE PLAN NO. 6
8	STRUCTURE PLAN NO. 7
9	STRUCTURE PLAN NO. 8
10	RETAINING WALL DETAILS NO. 1
11	RETAINING WALL DETAILS NO. 2
12	ARCHITECTURAL TREATMENT DETAILS
13	BARRIER MOTIF DETAILS

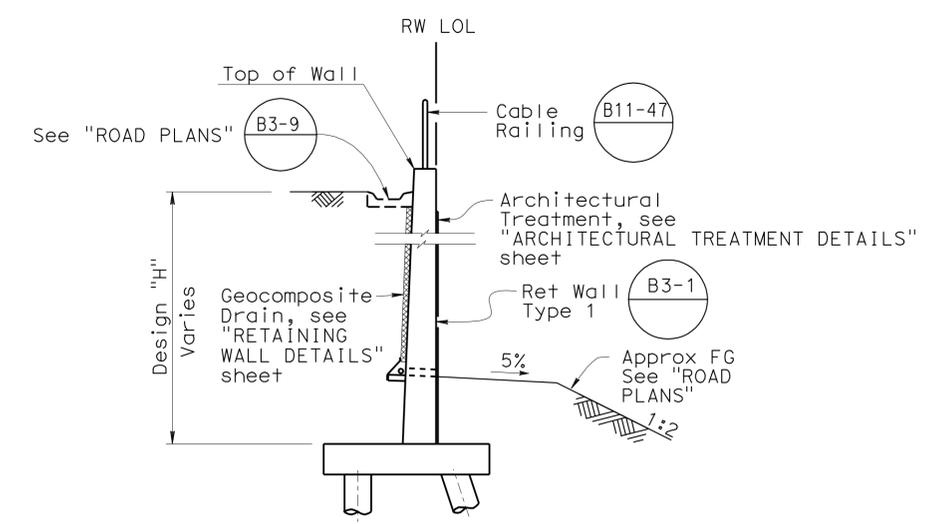
QUANTITIES

STRUCTURE EXCAVATION (RETAINING WALL)	800	CY
STRUCTURE BACKFILL (RETAINING WALL)	1,580	CY
FURNISH PILING (CLASS 90)	7,188	LF
(ALTERNATIVE W)		
DRIVE PILE (CLASS 90)	154	EA
(ALTERNATIVE W)		
STRUCTURAL CONCRETE, RETAINING WALL	589	CY
ARCHITECTURAL TREATMENT	4,540	SQFT
ARCHITECTURAL SURFACE (BARRIER)	305	SQFT
BAR REINFORCING STEEL (RETAINING WALL)	73,625	LB
CABLE RAILING	325	LF
CONCRETE BARRIER (TYPE 736)	488	LF



TYPICAL SECTION

No Scale
(RWLOL Sta 0+00 to Sta 3+08.191)



TYPICAL SECTION

No Scale
(RWLOL Sta 3+08.191 to Sta 6+32.253)

Ramin Rashedi DESIGN ENGINEER	DESIGN	BY Matthew J Schott	CHECKED Rupert Wilson	LAYOUT	BY Matthew J Schott	CHECKED Rupert Wilson	SPECIFICATIONS	BY T. Nedwick	PLANS AND SPECS COMPARED T. Nedwick	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 14
	DETAILS	BY Matthew J Schott	CHECKED Rupert Wilson		POST MILE	1.5							
	QUANTITIES	BY Matthew J Schott	CHECKED Rupert Wilson		GENERAL PLAN								

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 07227	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 1 OF 13
EA 215911		6-14-10 8-10-10 1-18-11 3-8-11	

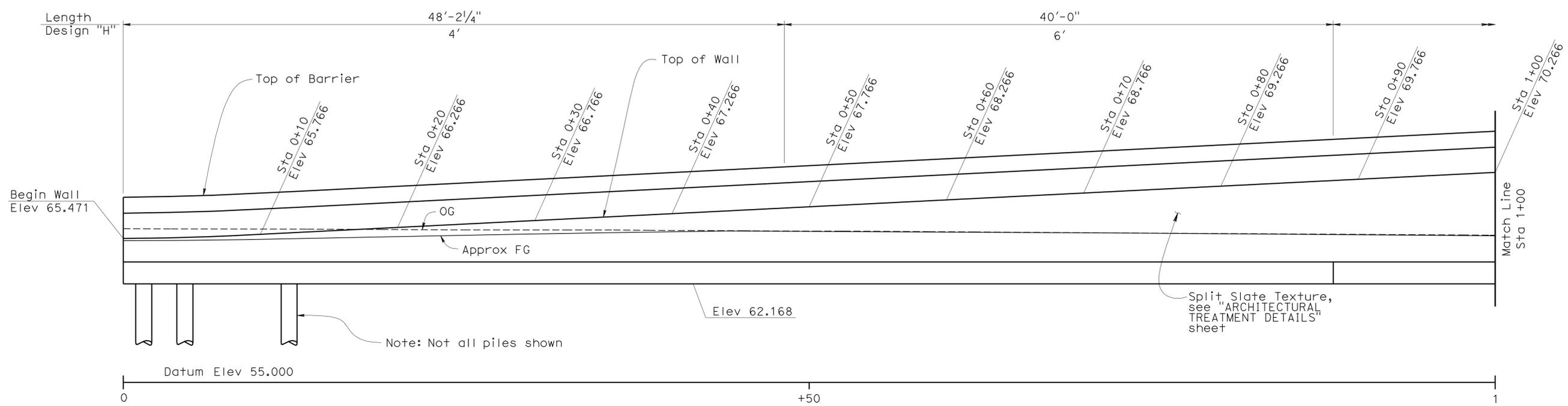
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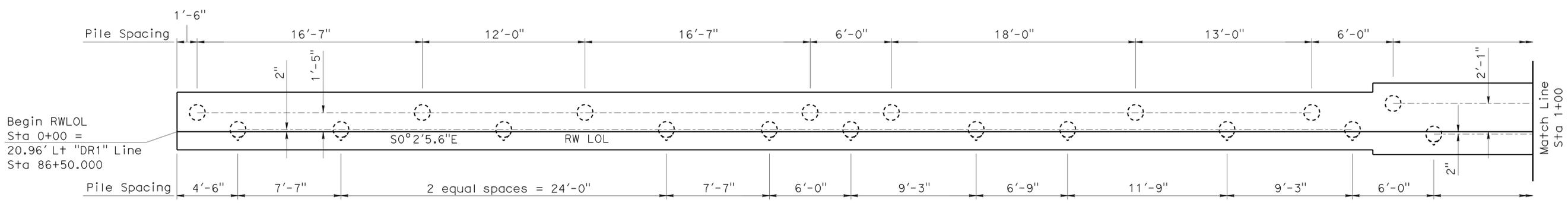
Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
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NOTES:

- ⊙ Indicates Class 90 Piles, Alternative "W" B2-5
- ⊙ Indicates battered 1:3 Class 90 Piles, Alternative "W" B2-5
- Pile tip elevation = 18.0



DEVELOPED ELEVATION
B0-3 B0-3 B0-3
 3-1 3-2 3-4
 1/4"=1'-0"



PLAN
 1/4"=1'-0"

DESIGN	BY Matthew J Schott	CHECKED Ruperd Wilson
DETAILS	BY Matthew J Schott	CHECKED Ruperd Wilson
QUANTITIES	BY Matthew J Schott	CHECKED Ruperd Wilson

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 11

BRIDGE NO.	RW14
POST MILE	1.5

RETAINING WALL NO. 14
STRUCTURE PLAN NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	592	602

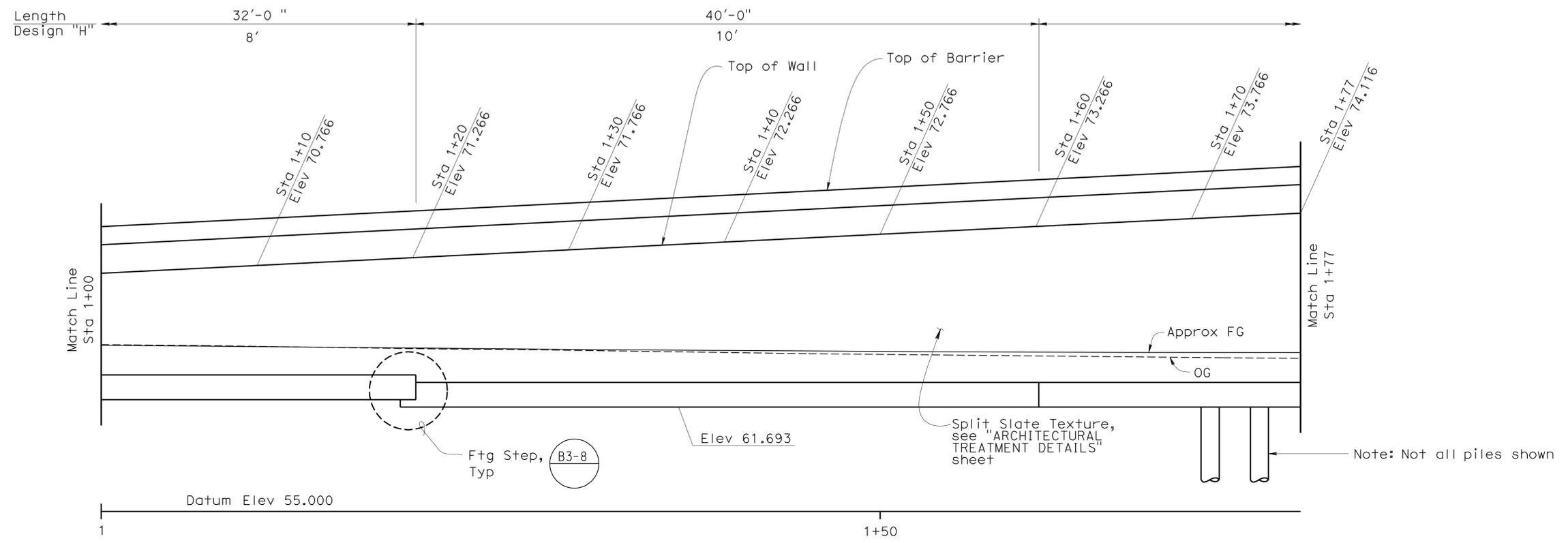
Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

6-27-11
 PLANS APPROVAL DATE

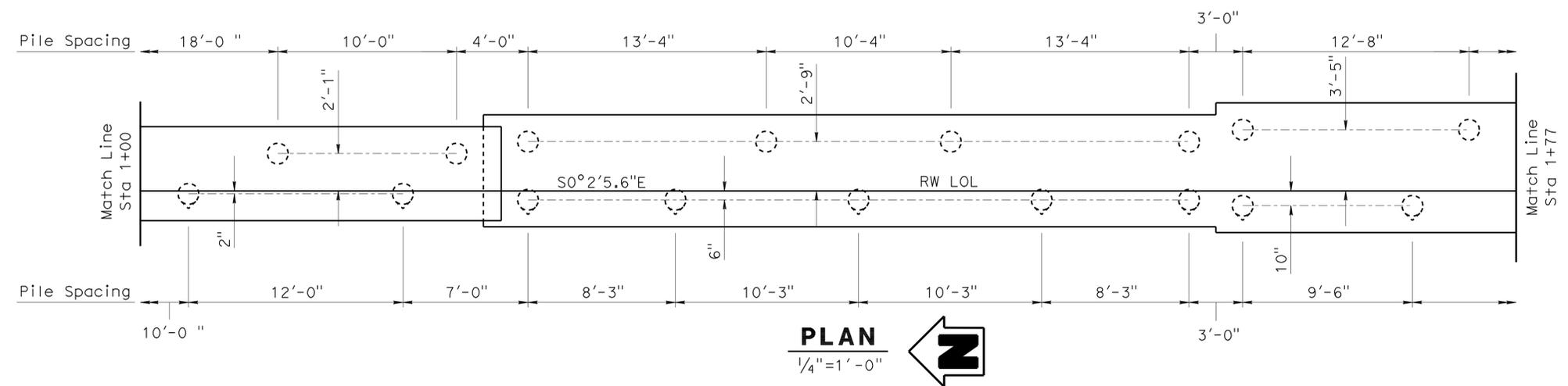
No. 60388
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

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- NOTES:
- ⊙ Indicates Class 90 Piles, Alternative "W" (B2-5)
 - ⊙ Indicates battered 1:3 Class 90 Piles, Alternative "W" (B2-5)
 - Pile tip elevation = 18.0



DEVELOPED ELEVATION
 1/4" = 1'-0"



DESIGN	BY Matthew J Schott	CHECKED Ruperd Wilson
DETAILS	BY Matthew J Schott	CHECKED Ruperd Wilson
QUANTITIES	BY Matthew J Schott	CHECKED Ruperd Wilson

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 11

BRIDGE NO.	RW14
POST MILE	1.5

RETAINING WALL NO. 14
STRUCTURE PLAN NO. 2

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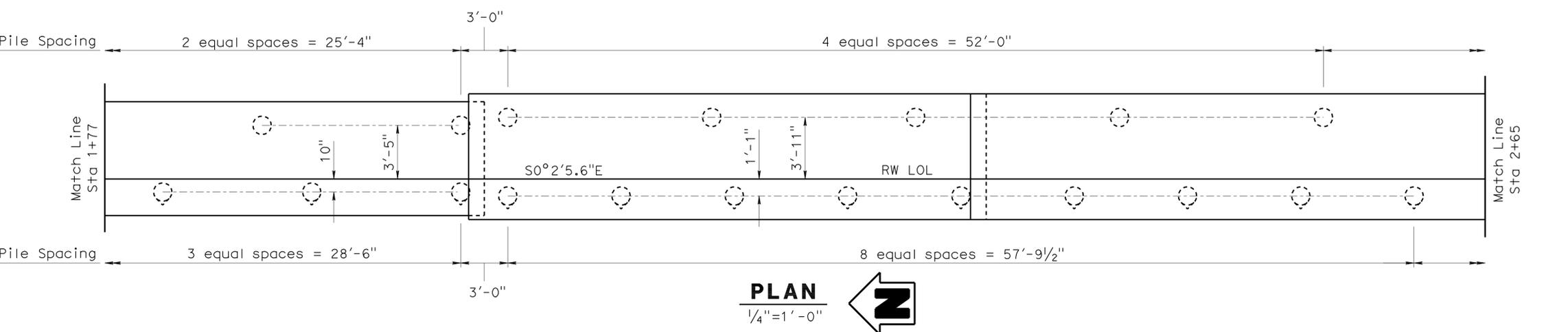
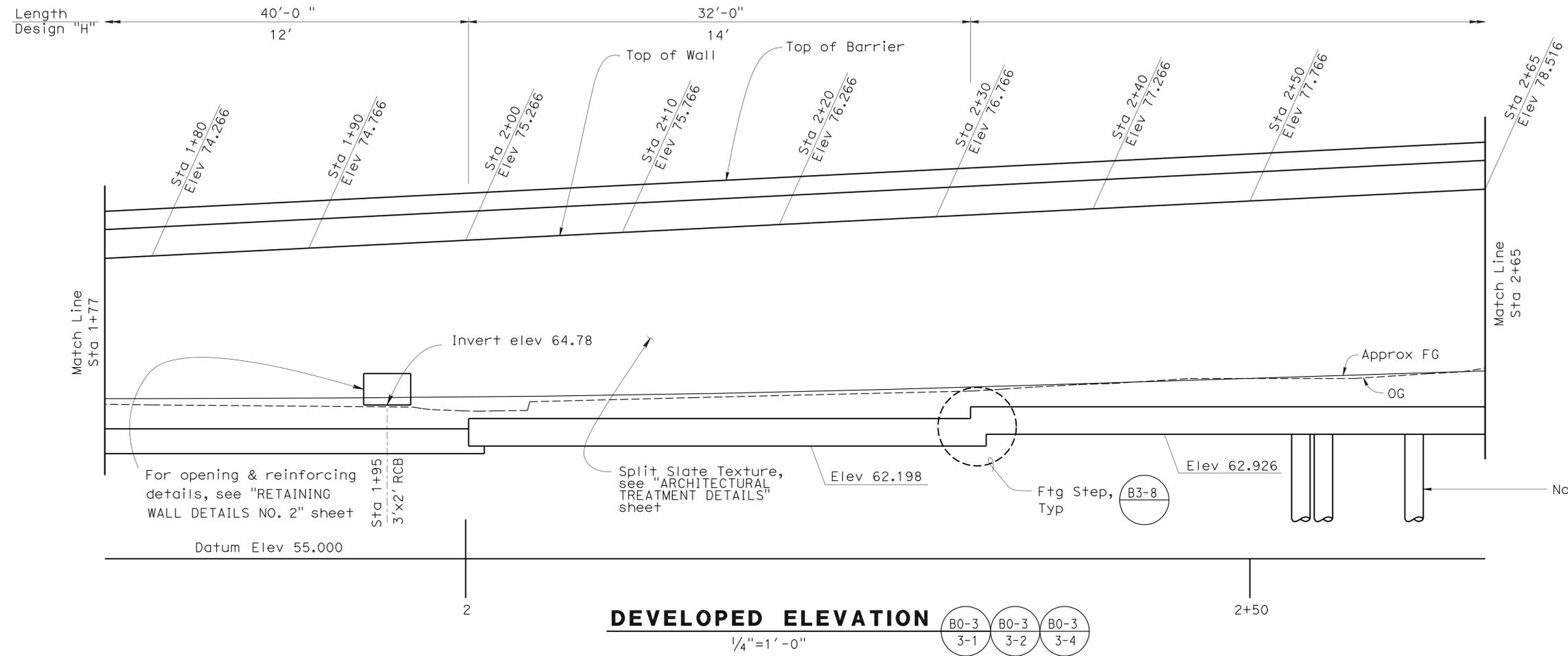
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	593	602

<i>Phu V. Nguyen</i> REGISTERED CIVIL ENGINEER DATE 3-2-11	
6-27-11 PLANS APPROVAL DATE	
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REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

NOTES:

- ⊙ Indicates Class 90 Piles, Alternative "W" (B2-5)
- ⊙ Indicates battered 1:3 Class 90 Piles, Alternative "W" (B2-5)
- Pile tip elevation = 18.0



DESIGN	BY Matthew J Schott	CHECKED Ruperd Wilson
DETAILS	BY Matthew J Schott	CHECKED Ruperd Wilson
QUANTITIES	BY Matthew J Schott	CHECKED Ruperd Wilson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

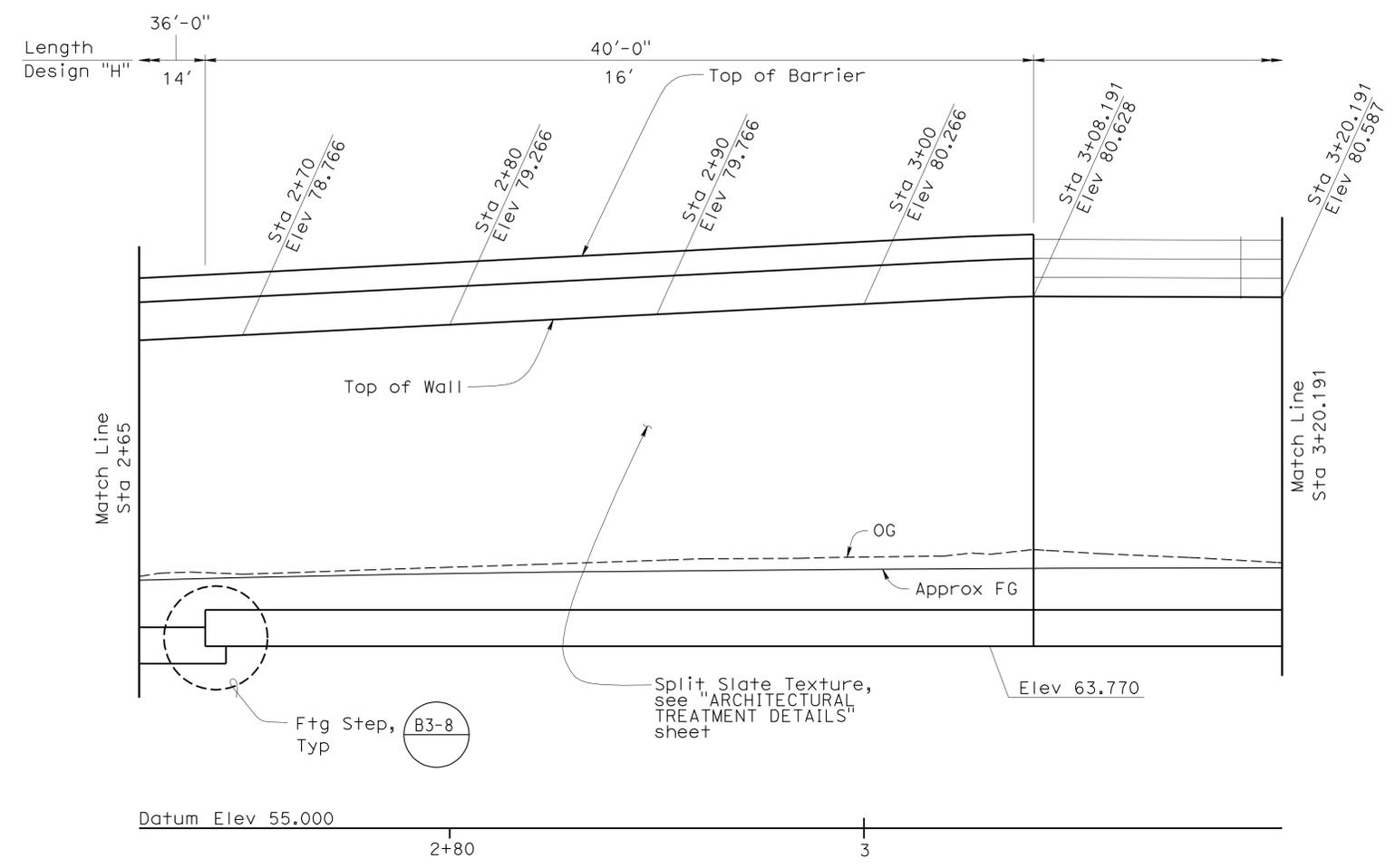
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

BRIDGE NO.	RW14
POST MILE	1.5

RETAINING WALL NO. 14
STRUCTURE PLAN NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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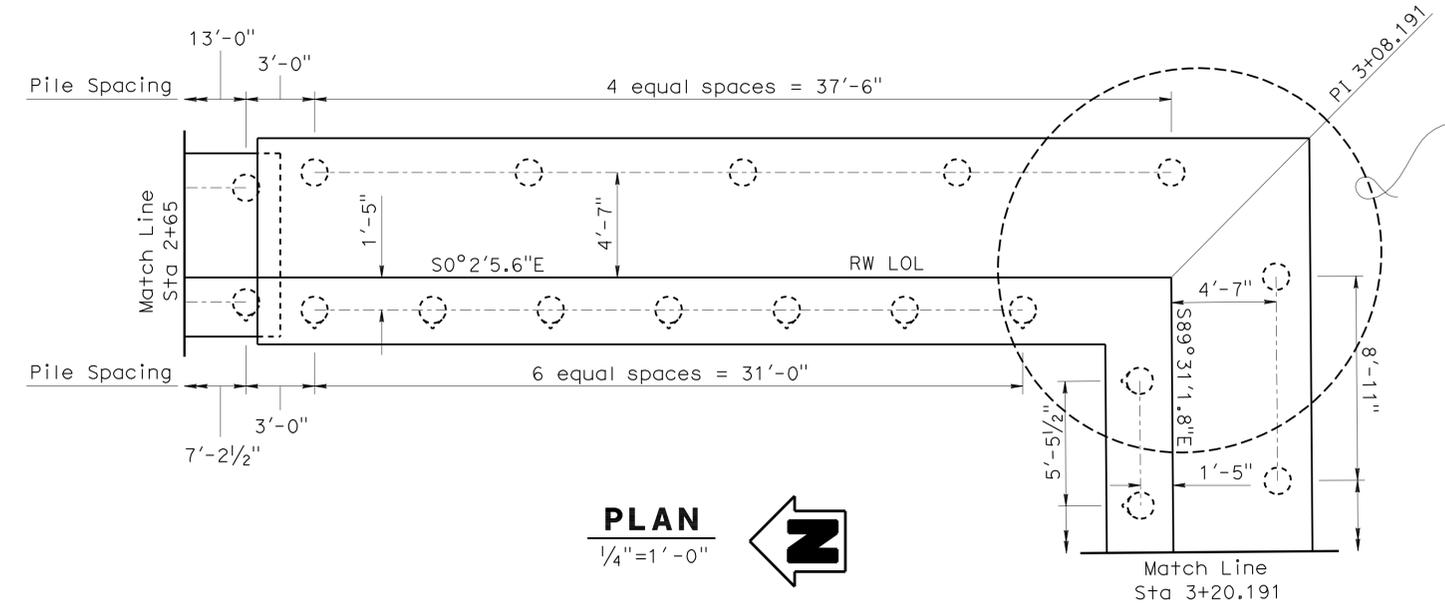
Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 60358
 Exp. 6-30-12
 CIVIL
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DEVELOPED ELEVATION (B0-3/3-1) (B0-3/3-2) (B0-3/3-4)
 1/4"=1'-0"

NOTES:

- ⊙ Indicates Class 90 Piles, Alternative "W" (B2-5)
- ⊙ Indicates battered 1:3 Class 90 Piles, Alternative "W" (B2-5)
- Pile tip elevation = 18.0



PLAN 1/4"=1'-0"

DESIGN BY Matthew J Schott CHECKED Ruperd Wilson DETAILS BY Matthew J Schott CHECKED Ruperd Wilson QUANTITIES BY Matthew J Schott CHECKED Ruperd Wilson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO. RW14 POST MILE 1.5	RETAINING WALL NO. 14 STRUCTURE PLAN NO. 4	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 6-14-10	SHEET 5 OF 13
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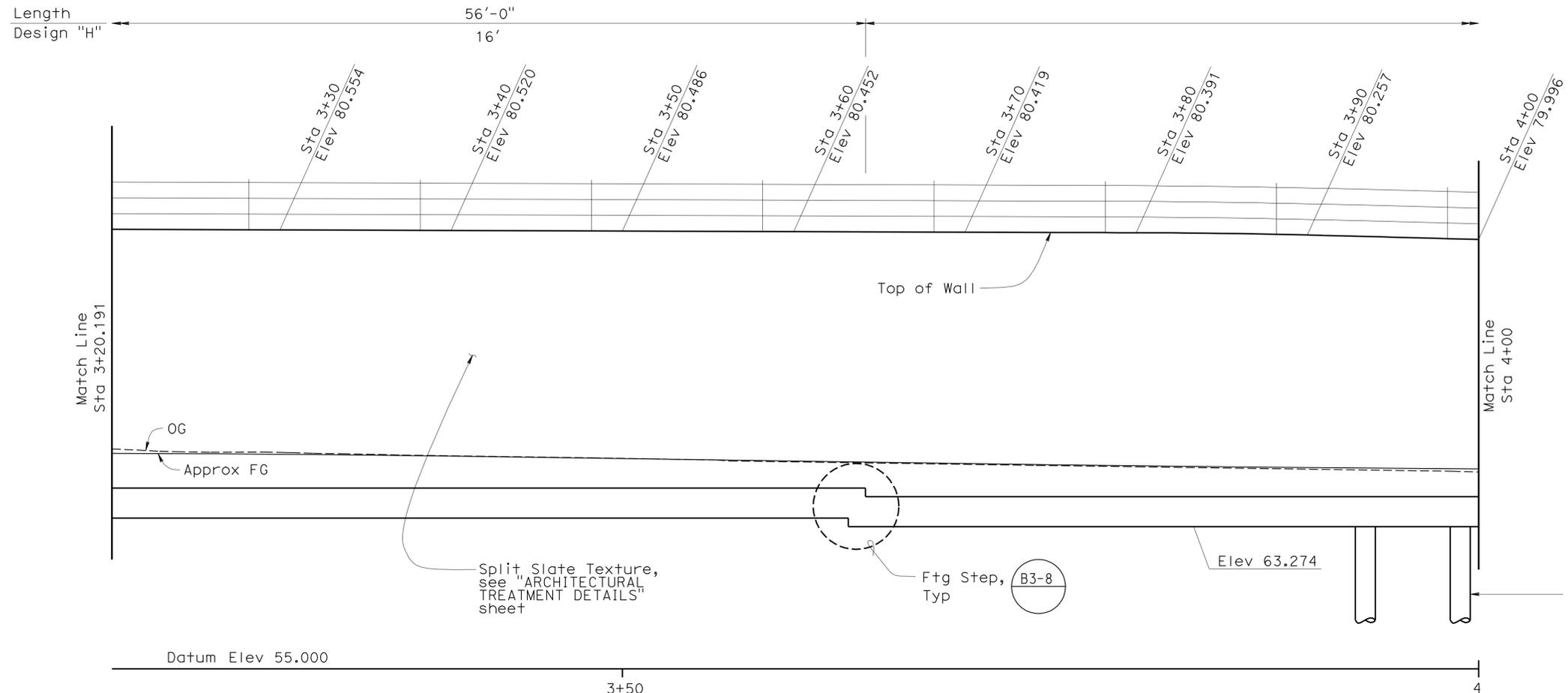
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	595	602

Phu Vuong Lympa 3-2-11
REGISTERED CIVIL ENGINEER DATE

6-27-11
PLANS APPROVAL DATE

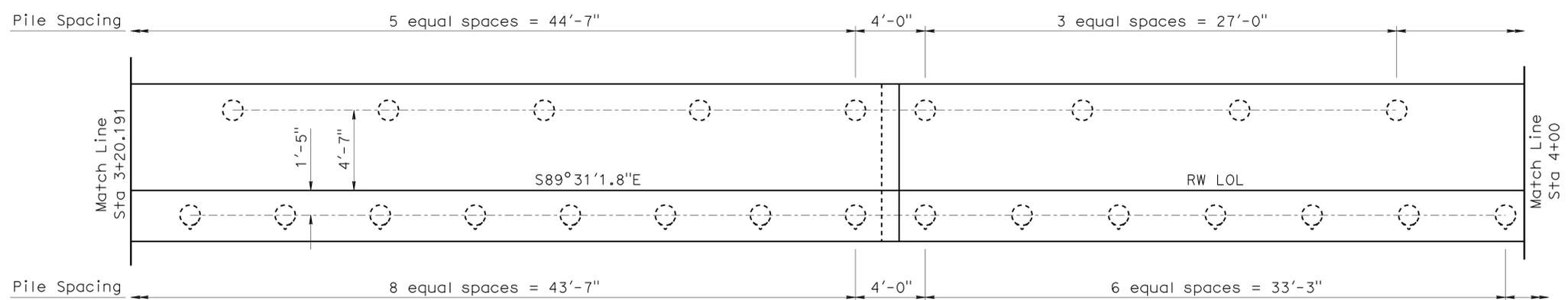
Phu V. Nguyen
No. 60358
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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- NOTES:
- ⊙ Indicates Class 90 Piles, Alternative "W" (B2-5)
 - ⊙ Indicates battered 1:3 Class 90 Piles, Alternative "W" (B2-5)
 - Pile tip elevation = 18.0

DEVELOPED ELEVATION (B0-3/3-1) (B0-3/3-2) (B0-3/3-4)
1/4"=1'-0"



PLAN
1/4"=1'-0"

DESIGN	BY Matthew J Schott	CHECKED Ruperd Wilson
DETAILS	BY Matthew J Schott	CHECKED Ruperd Wilson
QUANTITIES	BY Matthew J Schott	CHECKED Ruperd Wilson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH **11**

BRIDGE NO.	RW14
POST MILE	1.5

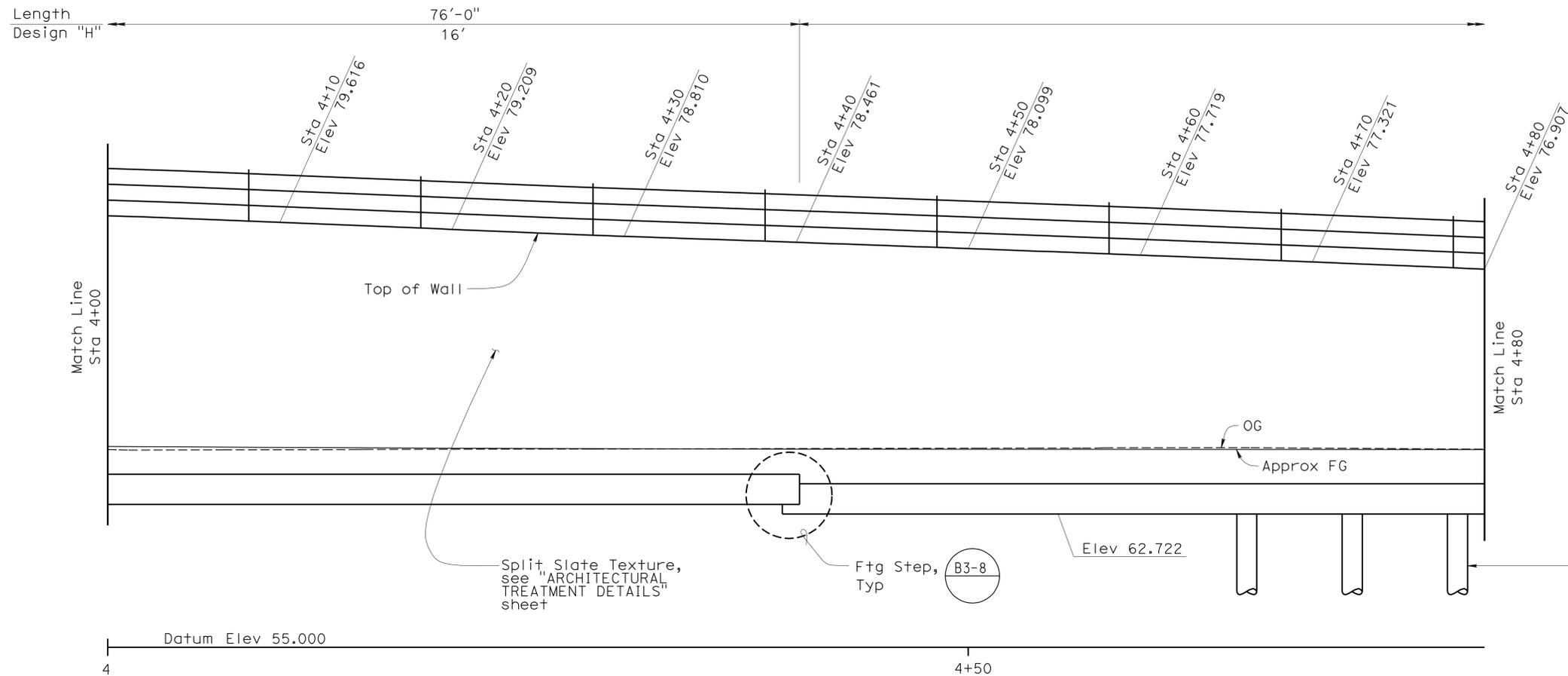
RETAINING WALL NO. 14
STRUCTURE PLAN NO. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	596	602

REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

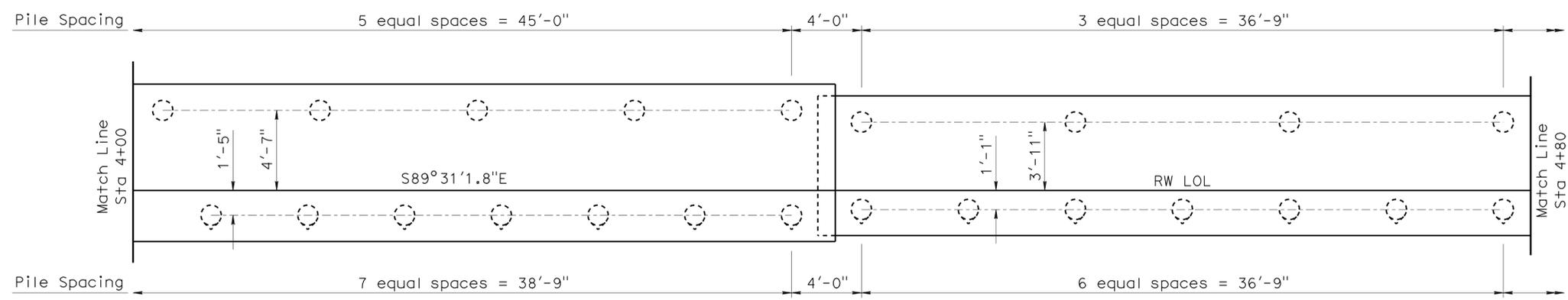
6-27-11
 PLANS APPROVAL DATE

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- NOTES:
- ⊙ Indicates Class 90 Piles, Alternative "W" (B2-5)
 - ⊙ Indicates battered 1:3 Class 90 Piles, Alternative "W" (B2-5)
 - Pile tip elevation = 18.0

DEVELOPED ELEVATION
 1/4" = 1' - 0"



PLAN
 1/4" = 1' - 0"



STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Matthew J Schott	CHECKED Ruperd Wilson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 14 STRUCTURE PLAN NO. 6
	DETAILS	BY Matthew J Schott	CHECKED Ruperd Wilson			RW14	
	QUANTITIES	BY Matthew J Schott	CHECKED Ruperd Wilson			POST MILE 1.5	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 7 OF 13

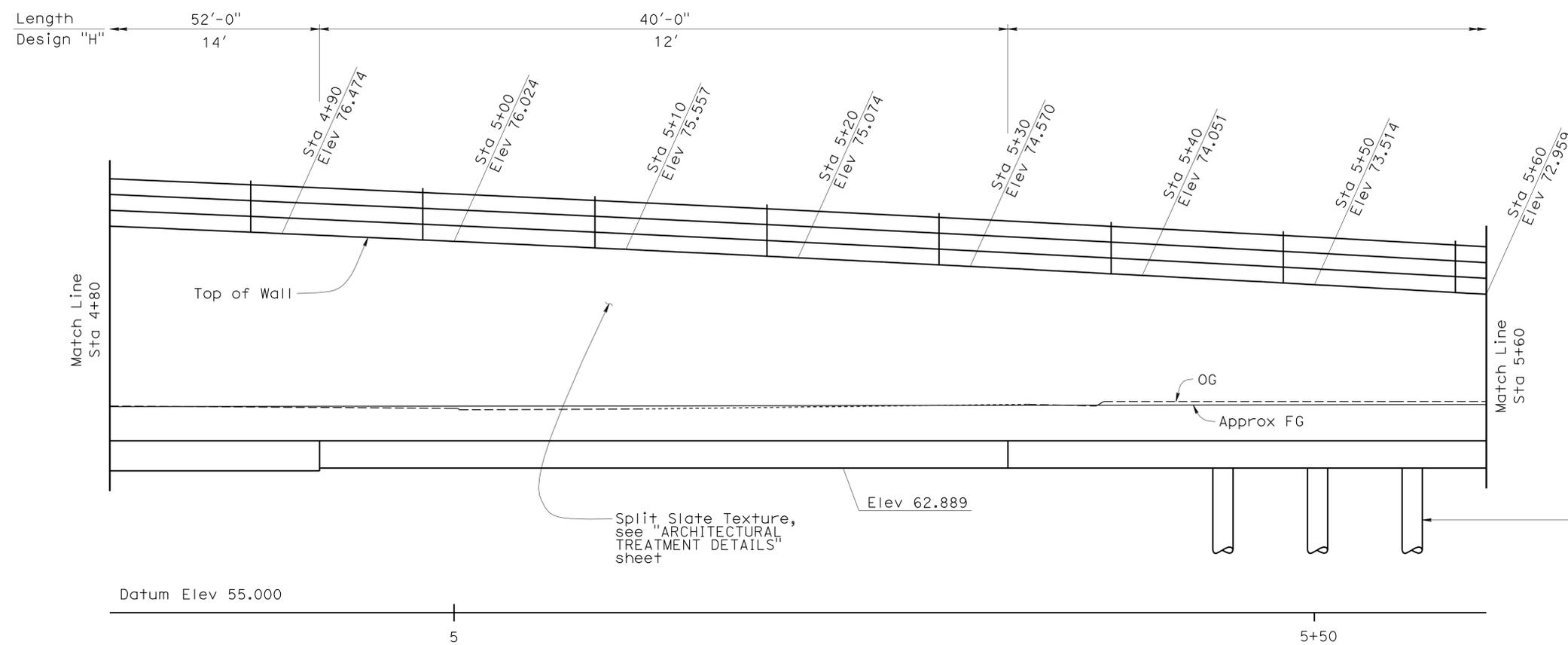
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	597	602

REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
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 CIVIL
 STATE OF CALIFORNIA

6-27-11
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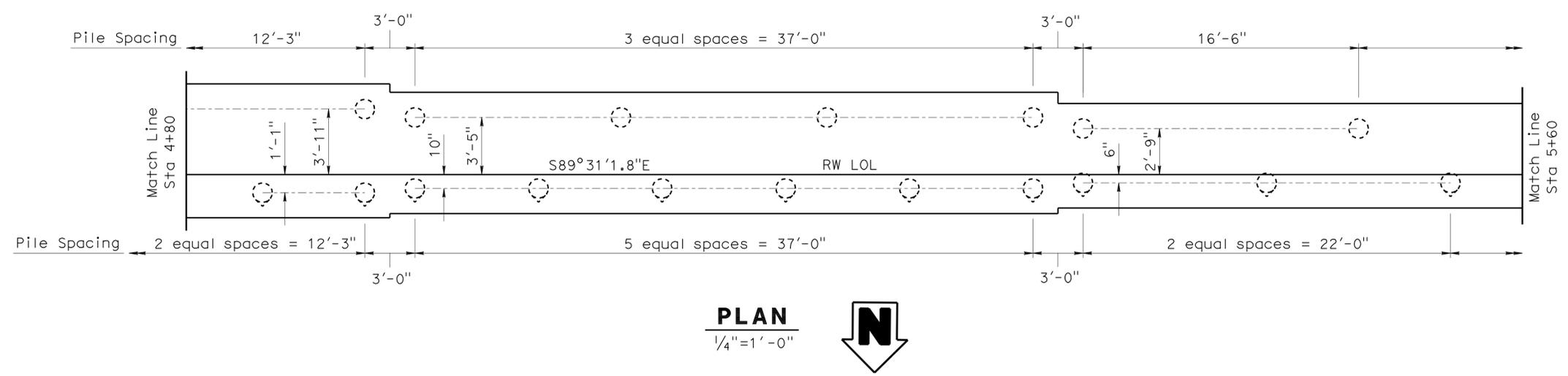


- NOTES:
- ⊙ Indicates Class 90 Piles, Alternative "W" (B2-5)
 - ⊙ Indicates battered 1:3 Class 90 Piles, Alternative "W" (B2-5)
 - Pile tip elevation = 18.0

DEVELOPED ELEVATION

1/4"=1'-0"

B0-3 3-1 B0-3 3-2 B0-3 3-4



STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Matthew J Schott	CHECKED Ruperd Wilson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 14	
	DETAILS	BY Matthew J Schott	CHECKED Ruperd Wilson			RW14		STRUCTURE PLAN NO. 7
	QUANTITIES	BY Matthew J Schott	CHECKED Ruperd Wilson			POST MILE 1.5		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 8 OF 13

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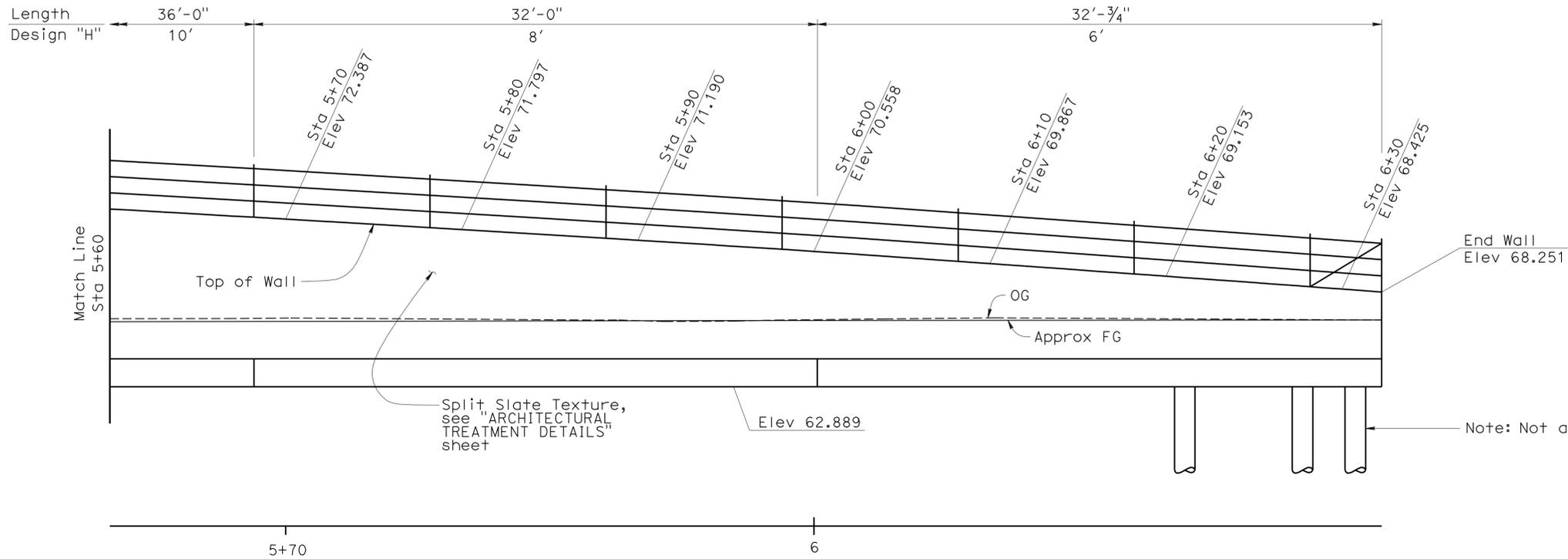
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	598	602

Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

6-27-11
 PLANS APPROVAL DATE

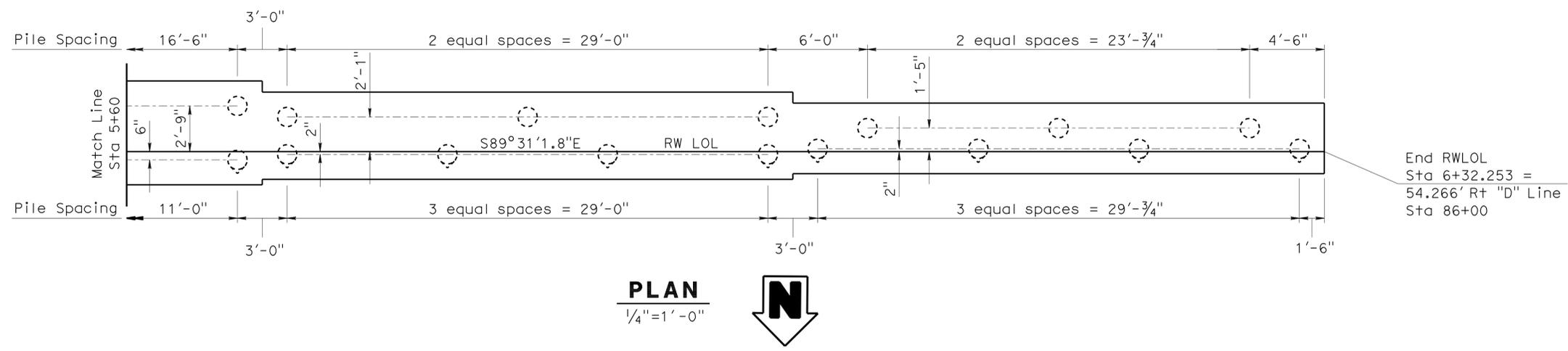
No. 60358
 Exp. 6-30-12
 CIVIL

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- NOTES:
- ⊙ Indicates Class 90 Piles, Alternative "W" (B2-5)
 - ⊙ Indicates battered 1:3 Class 90 Piles, Alternative "W" (B2-5)
 - Pile tip elevation = 18.0

DEVELOPED ELEVATION (B0-3/3-1) (B0-3/3-2) (B0-3/3-4)
 1/4" = 1'-0"



DESIGN	BY Matthew J Schott	CHECKED Ruperd Wilson
DETAILS	BY Matthew J Schott	CHECKED Ruperd Wilson
QUANTITIES	BY Matthew J Schott	CHECKED Ruperd Wilson

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	RW14
POST MILE	1.5

RETAINING WALL NO. 14
STRUCTURE PLAN NO. 8

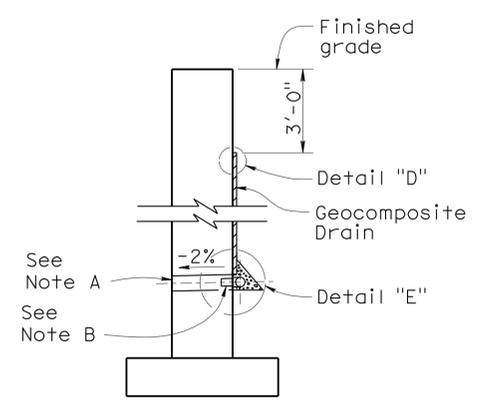
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Phu V. Nguyen 3-2-11
REGISTERED CIVIL ENGINEER DATE

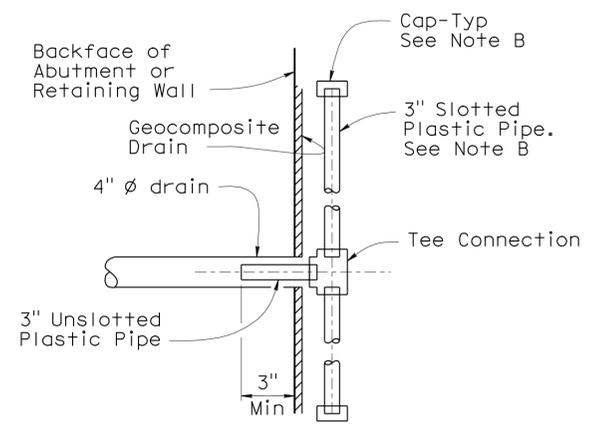
6-27-11
PLANS APPROVAL DATE

Phu V. Nguyen
No. 60358
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

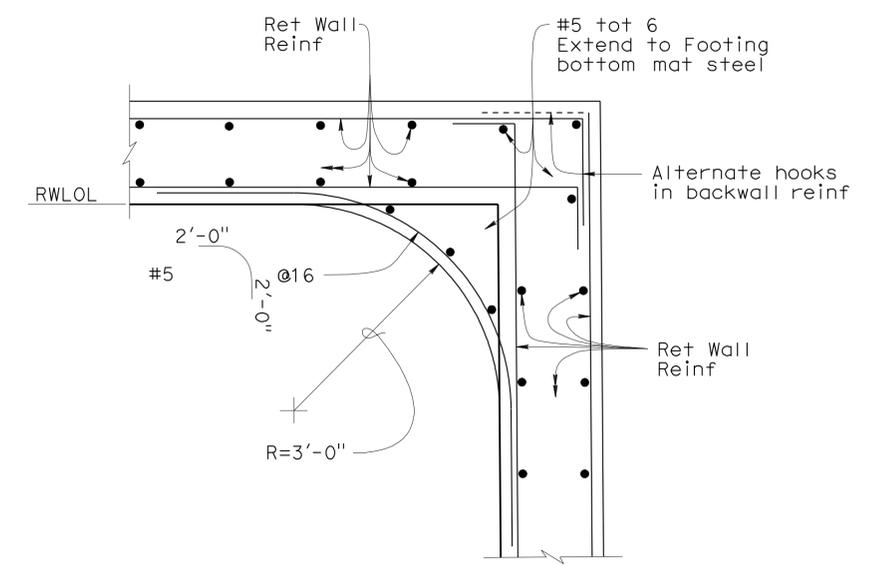
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WALL SECTION

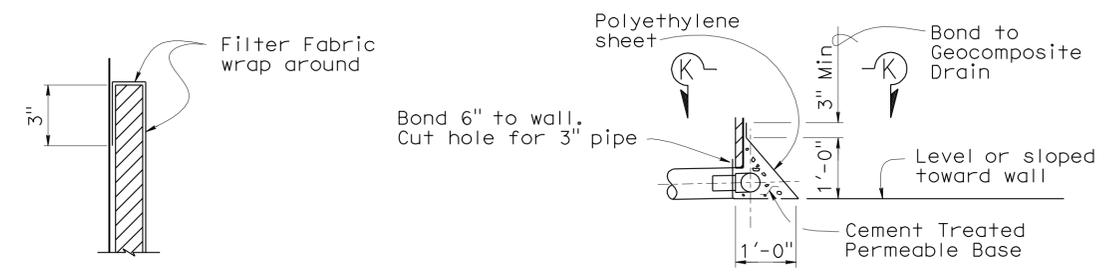


SECTION K-K



WALL CORNER DETAIL

No Scale



DETAIL "D"

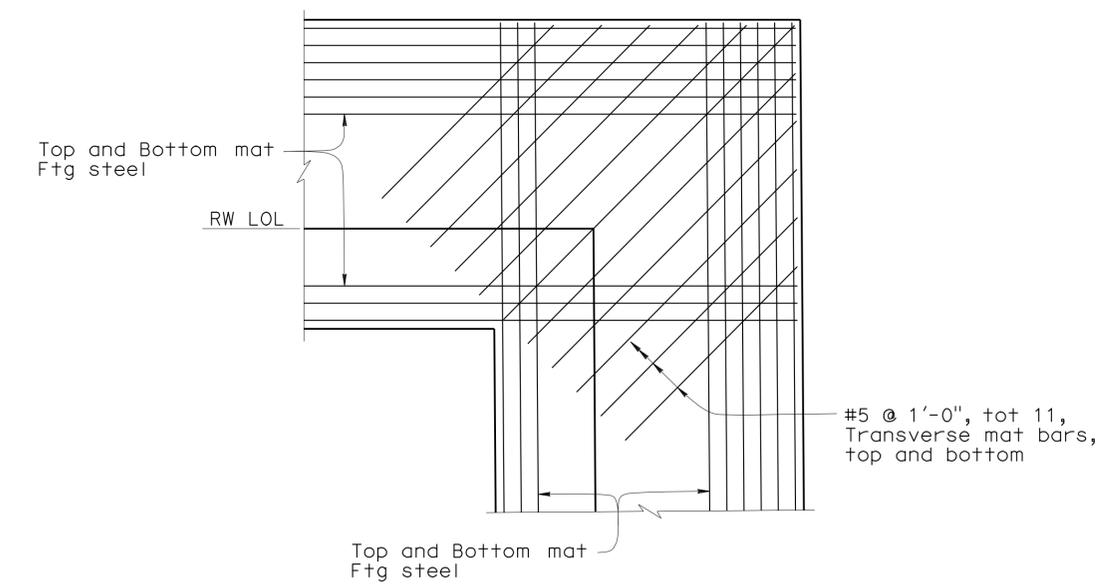
DETAIL "E"

WEEP HOLE AND GEOCOMPOSITE DRAIN

NO SCALE

Notes:

- A. 4" ϕ drains at intermediate sag points and at 25'-0" center to center (9'-0" c-c for Type 3 and 9'-2" c-c for Type 4 retaining walls). For walls adjacent to sidewalks or curbs, provide 4" ϕ cast iron or asbestos cement pipe under the sidewalk to discharge through curb face. Exposed wall drains shall be located 3" \pm above finished grade.
- B. Geocomposite drain, cement treated permeable base, and 3" ϕ slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" ϕ drain.
- C. Connect the low end of plastic pipe to the main outlet pipe as applicable.



Note: Match Ret Wall Stem steel (b - d) in wall corner detail

FOOTING CORNER DETAIL

No Scale

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Matthew J Schott	CHECKED Reperd Wilson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 14	
	DETAILS	BY Matthew J Schott	CHECKED Reperd Wilson			RW14		RETAINING WALL DETAILS NO. 1
	QUANTITIES	BY Matthew J Schott	CHECKED Reperd Wilson			POST MILE 1.5		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 10 OF 13	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	1.2/2.1	600	602

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

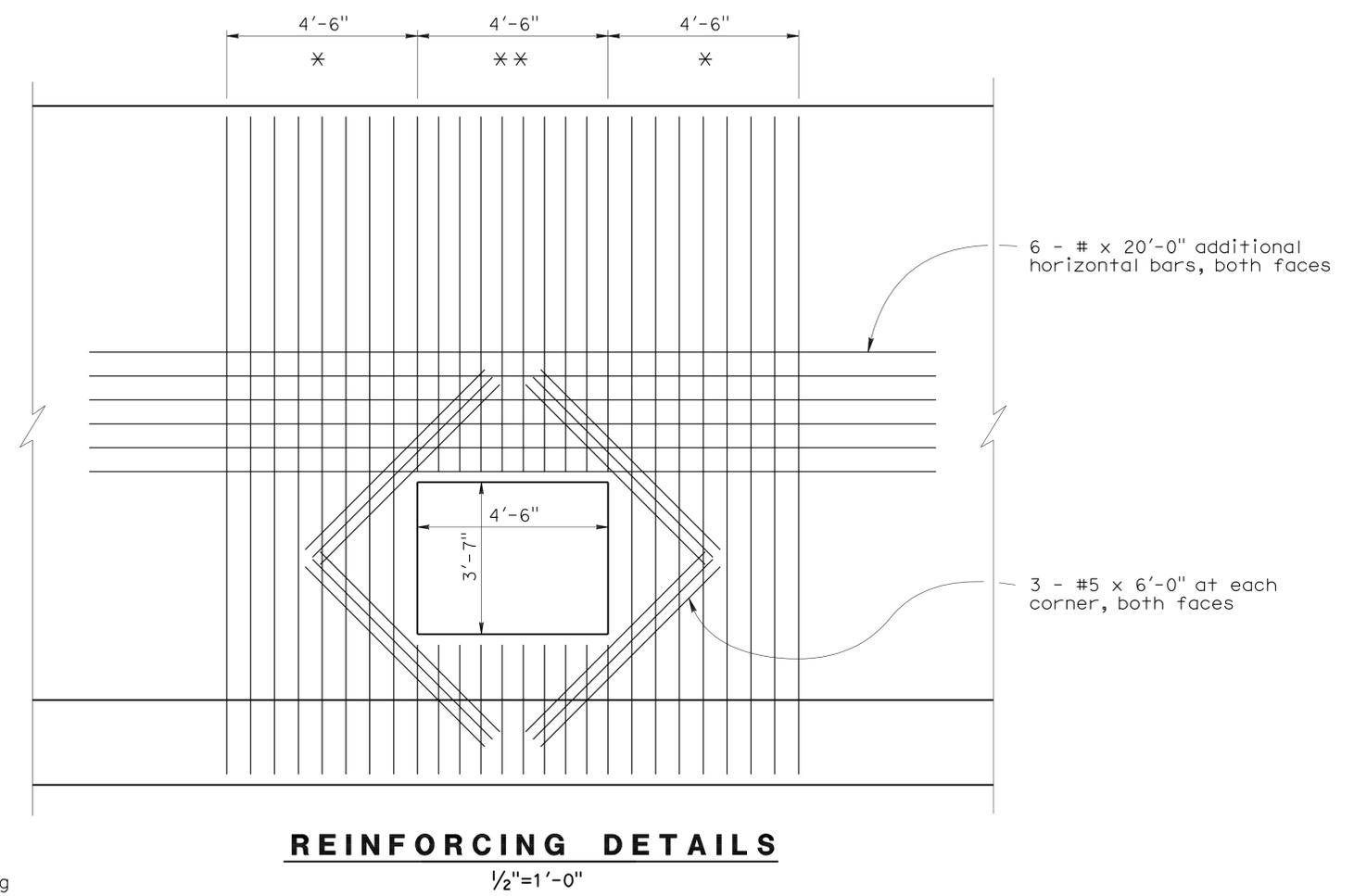
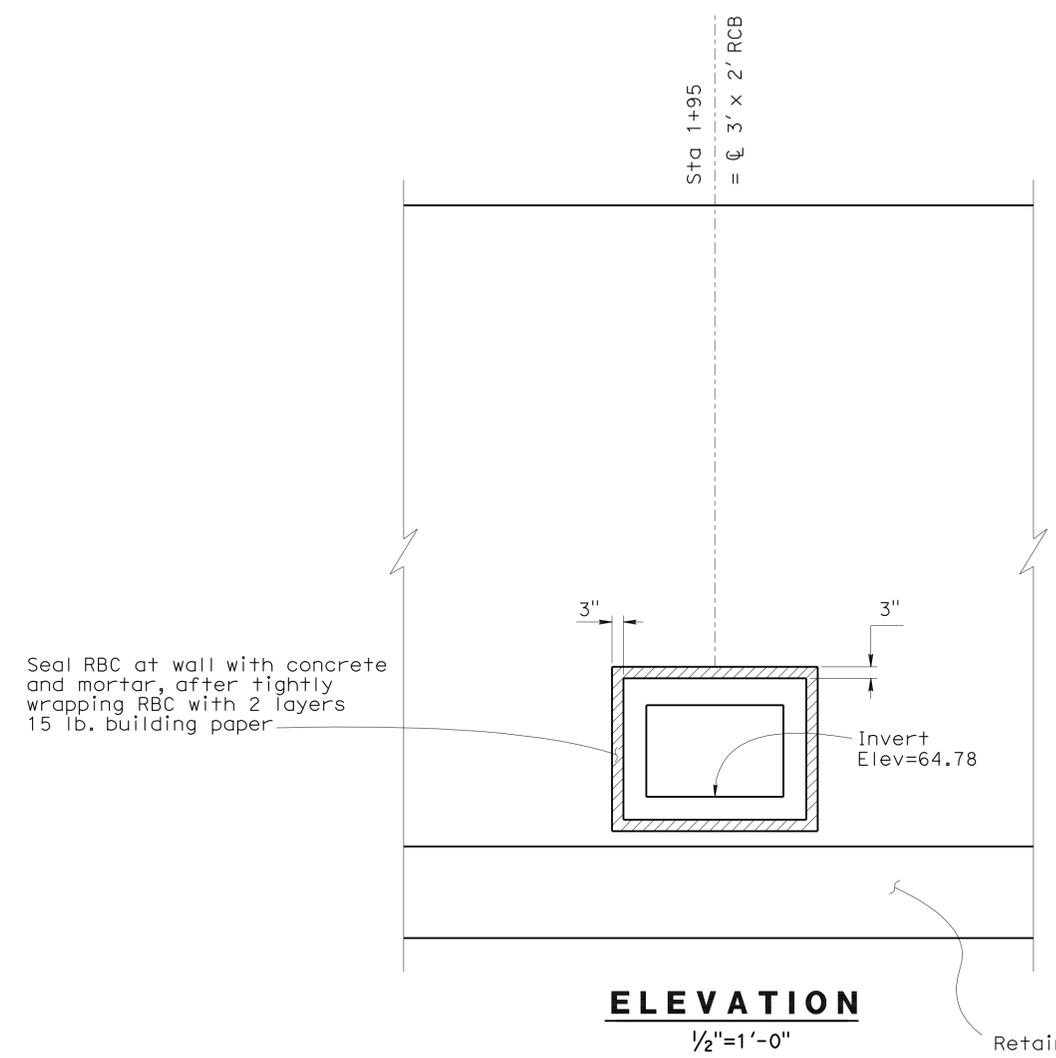
6-27-11
 PLANS APPROVAL DATE

No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

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* Standard vertical reinforcement plus additional vertical bars corresponding in size and number to bars cut by the opening. Place half on each side. Extend the additional bars into the footing the same as other vertical wall reinforcement and to a minimum of 60 bar diameters above the top of utility opening if wall height permits. Bundle bars as required.

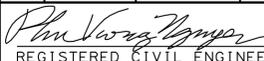
** Standard vertical Reinforcement above and below opening (both faces)



STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Karen Doll	CHECKED Phu Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11	BRIDGE NO.	RETAINING WALL NO. 14						
	DETAILS	BY Loren Goldthwait	CHECKED Karen Doll			RW14	RETAINING WALL DETAILS NO. 2						
	QUANTITIES	BY Karen Doll	CHECKED Phu Nguyen			POST MILE	1.5						
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07227 EA 215911	DISREGARD PRINTS BEARING EARLIER REVISION DATES	8-10-10	REVISION DATES				SHEET 11 OF 13

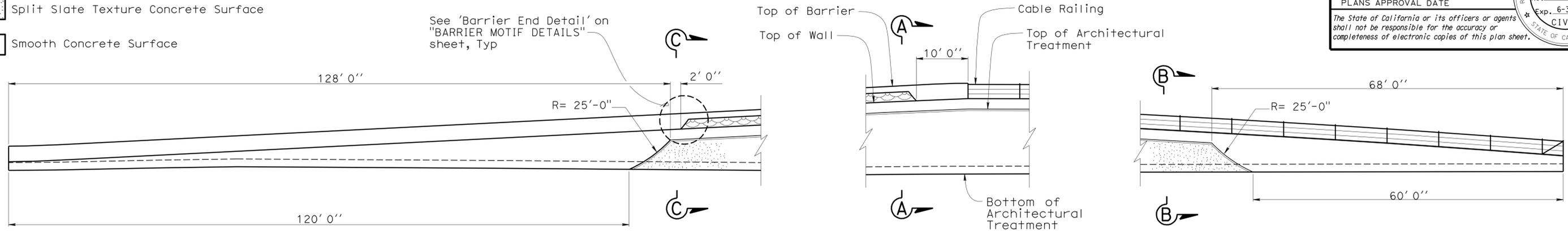
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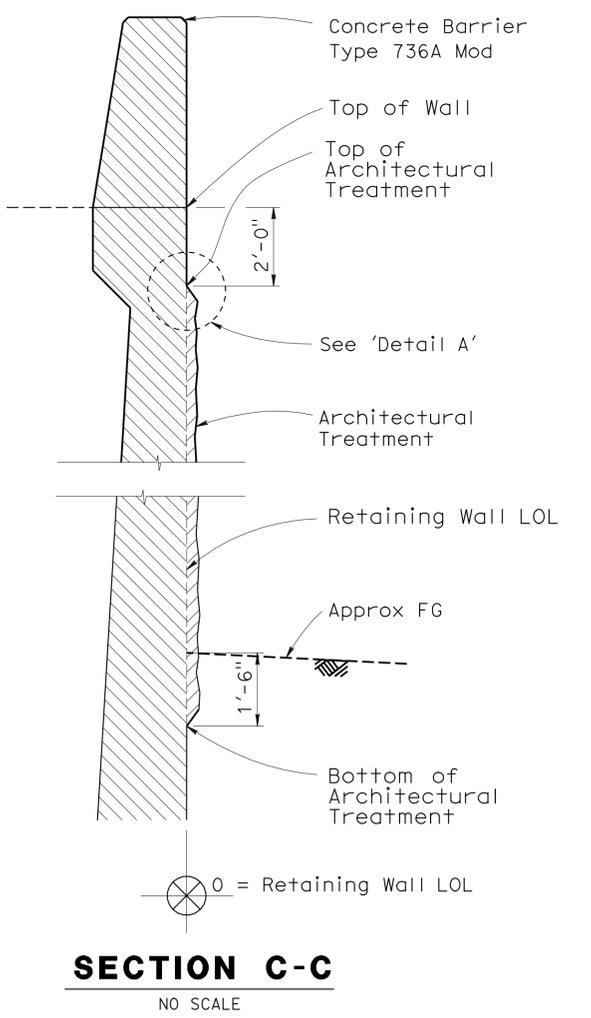
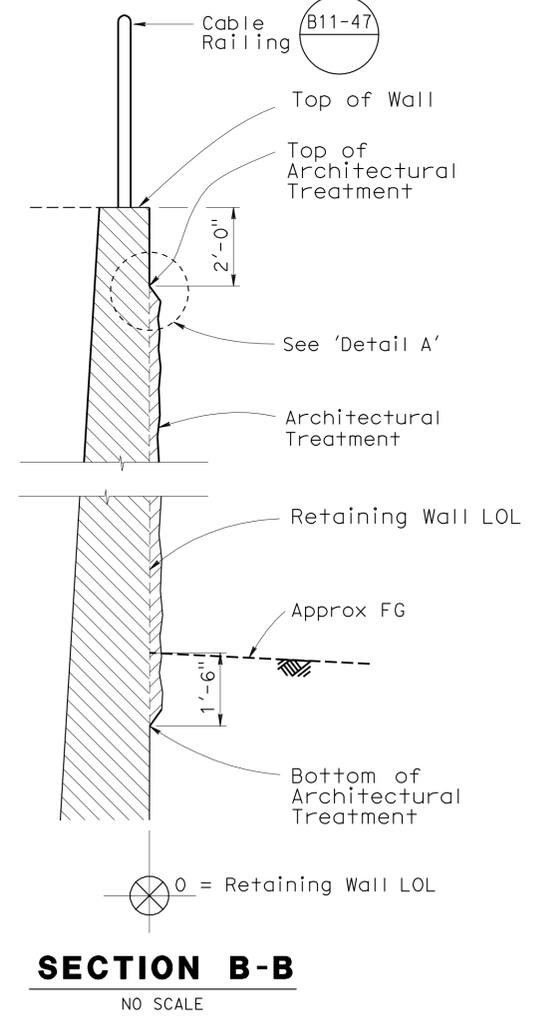
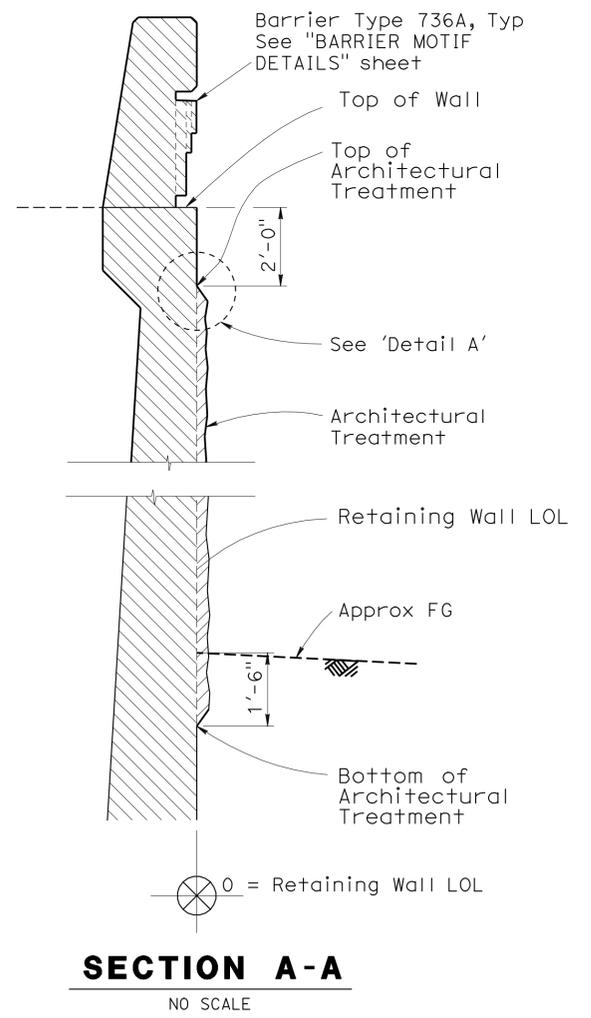
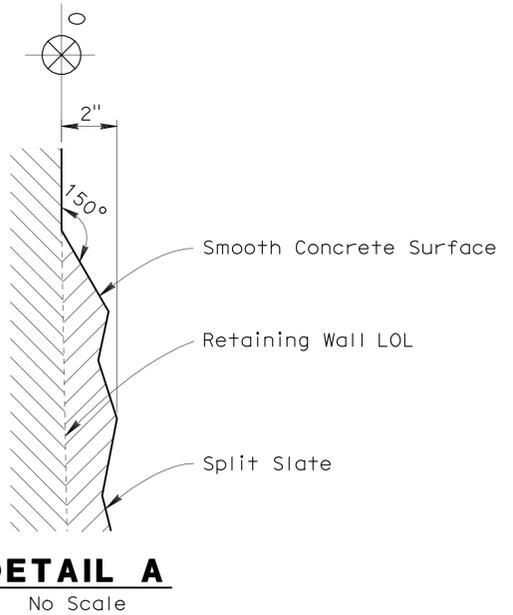
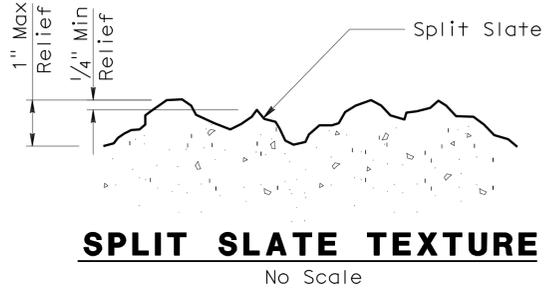
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07	LA	5	1.2/2.1	601	602
			3-2-11	DATE	
REGISTERED CIVIL ENGINEER			No. 60358 Exp. 6-30-12 CIVIL		
6-27-11 PLANS APPROVAL DATE			The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		

Notes:
 All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL

- Legend:
-  Split Slate Texture Concrete Surface
 -  Smooth Concrete Surface



Note: Retaining Wall Footing not shown **DEVELOPED PART ELEVATION**
 No Scale



DESIGN	BY Matthew J Schott	CHECKED Ruperd Wilson
DETAILS	BY Matthew J Schott	CHECKED Ruperd Wilson
QUANTITIES	BY Matthew J Schott	CHECKED Ruperd Wilson

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

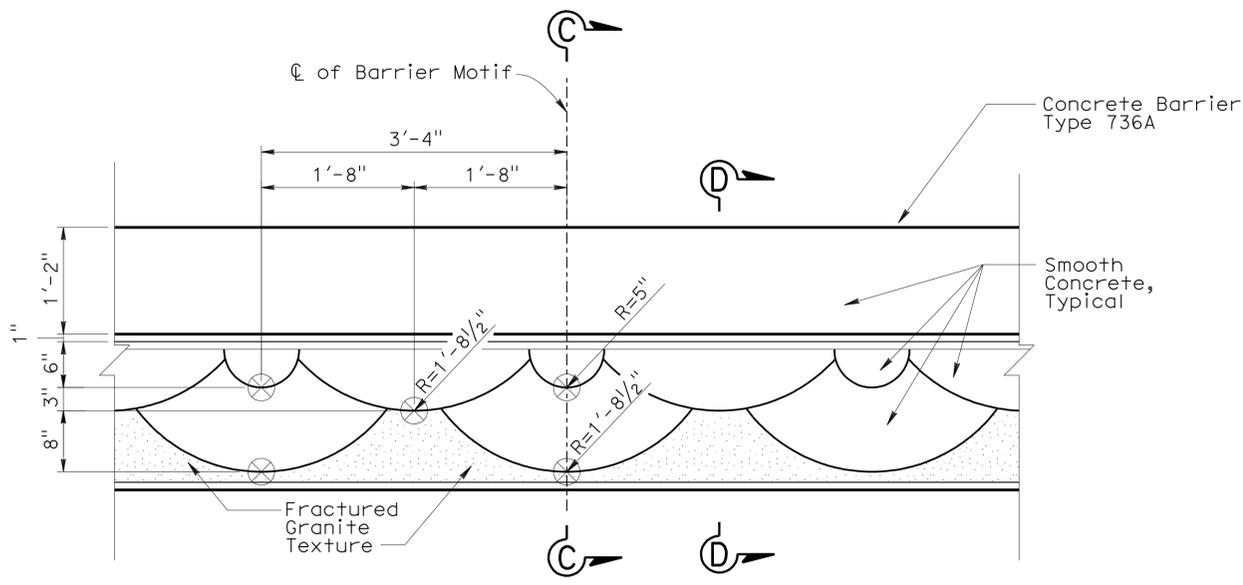
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	RW14
POST MILE	1.5

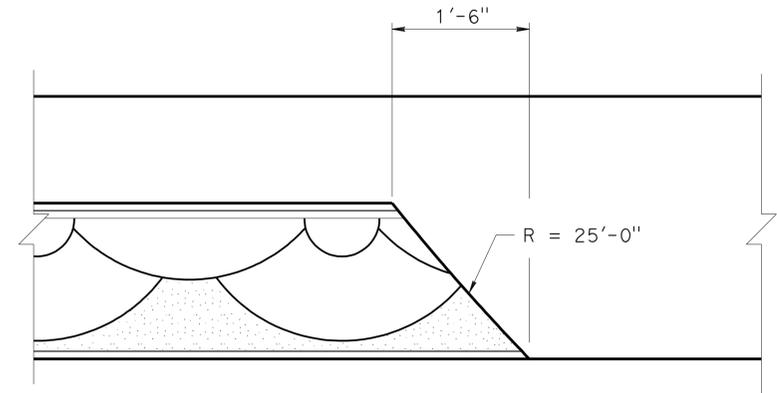
RETAINING WALL NO. 14
ARCHITECTURAL TREATMENT DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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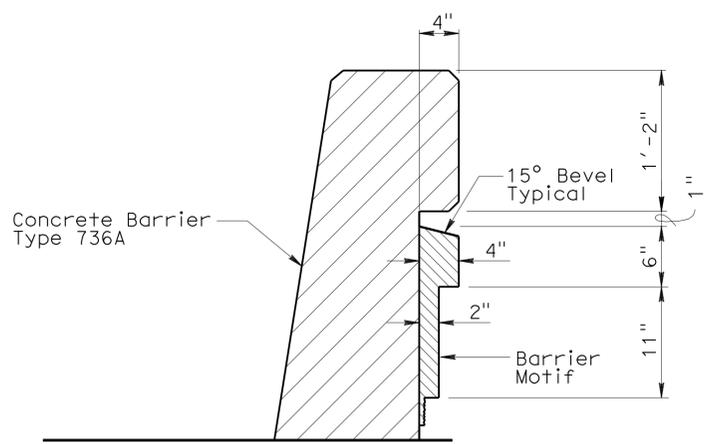
REGISTERED CIVIL ENGINEER
 DATE 3-2-11
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
 6-27-11
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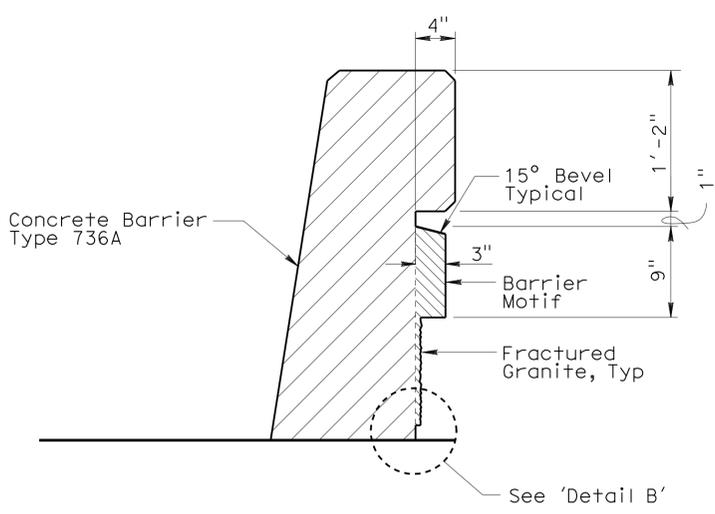
ELEVATION - BARRIER MOTIF
No Scale



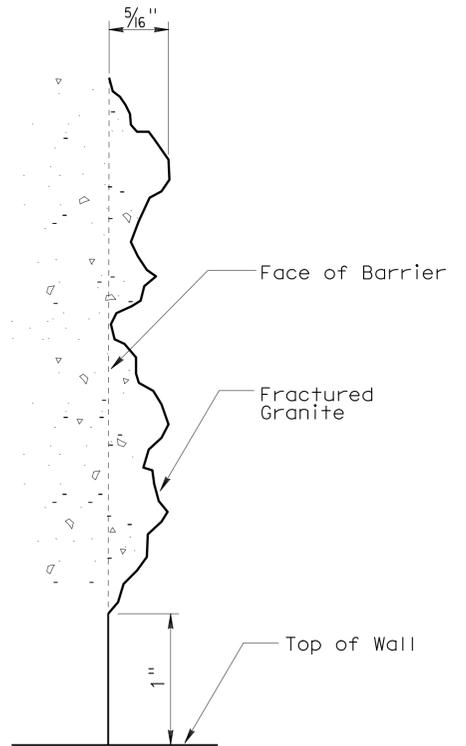
BARRIER END DETAIL
No Scale



SECTION C-C
No Scale



SECTION D-D
No Scale



DETAIL B
No Scale

DESIGN	BY Matthew J Schott	CHECKED Ruperd Wilson
DETAILS	BY Matthew J Schott	CHECKED Ruperd Wilson
QUANTITIES	BY Matthew J Schott	CHECKED Ruperd Wilson

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

BRIDGE NO.	RW14
POST MILE	1.5

RETAINING WALL NO. 14
BARRIER MOTIF DETAILS