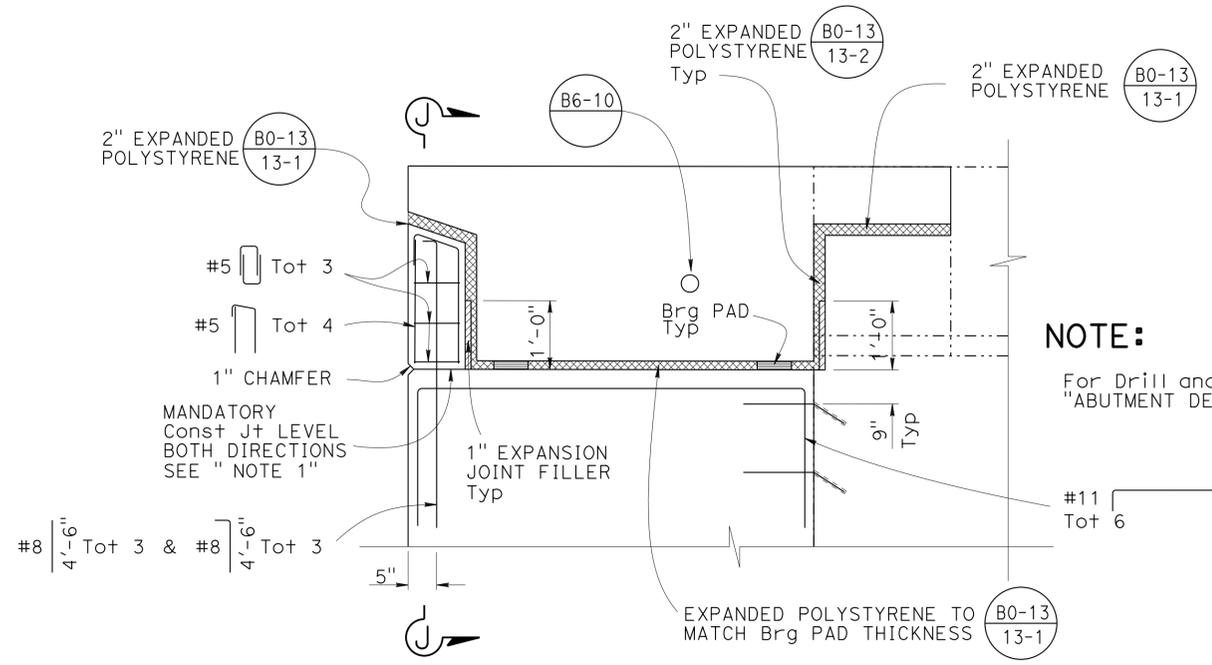
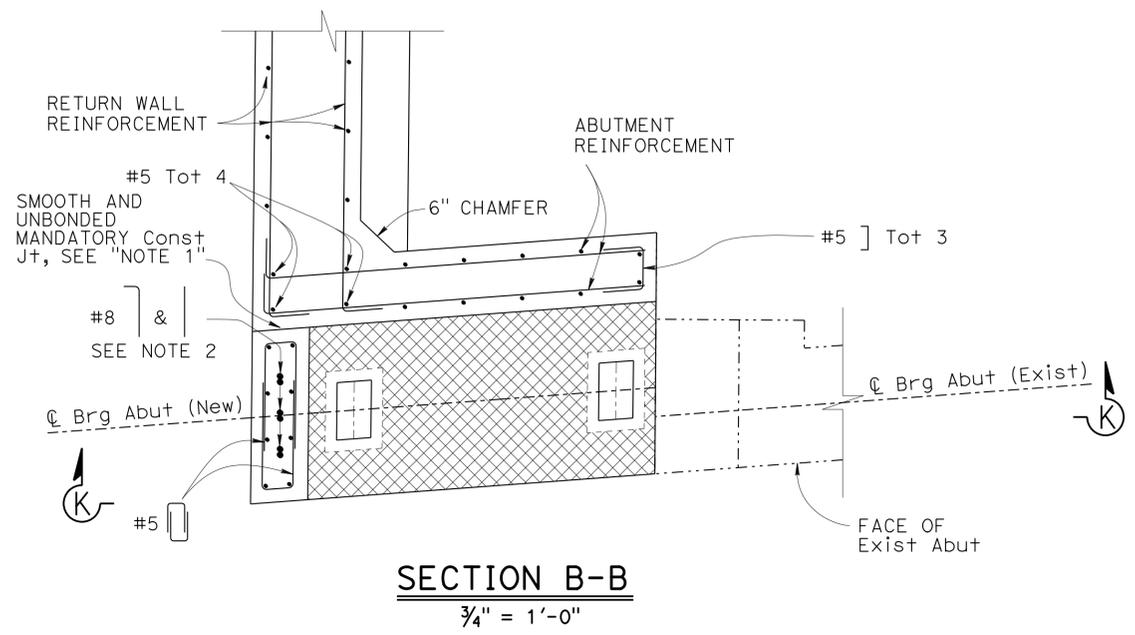
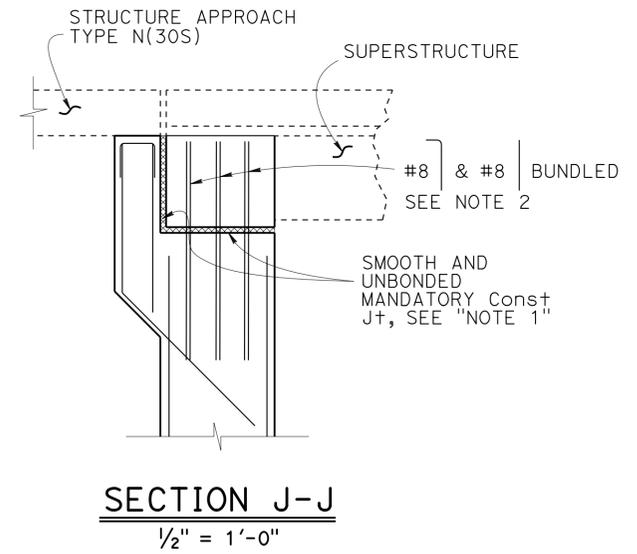
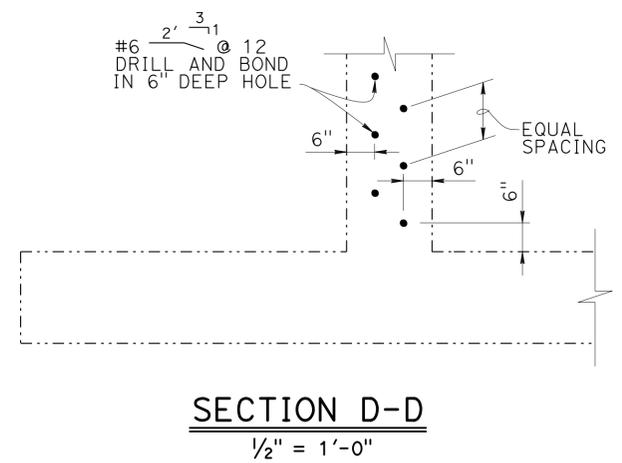
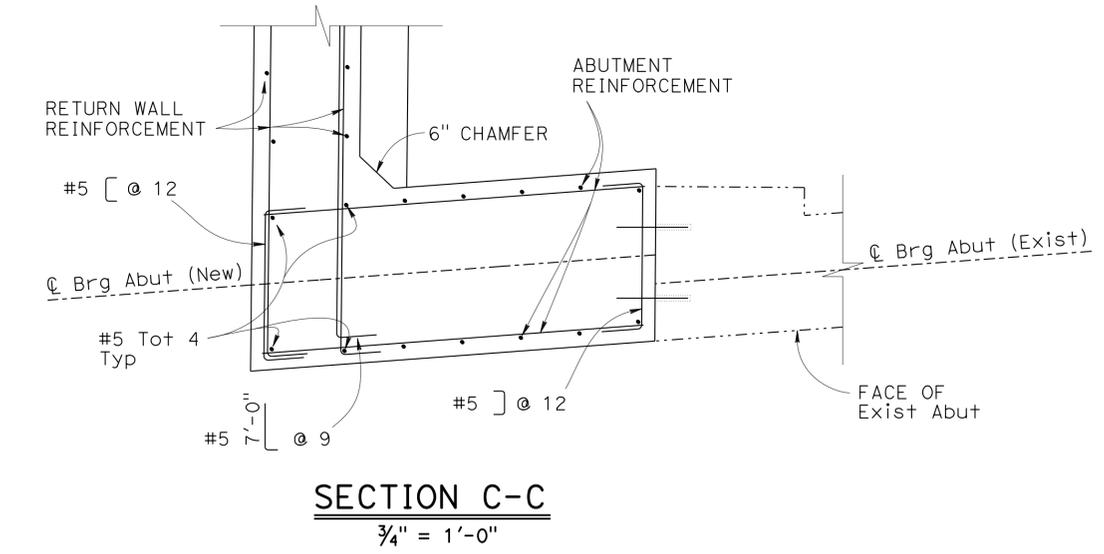


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1602	2313

Dawit Tadelle Esq 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp. 12-31-14
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NOTE:
For Drill and Bond details, see "ABUTMENT DETAILS NO. 3" sheet



NOTE:
For section location, see "ABUTMENT 1 & 3 LAYOUT" sheet

- NOTES:**
- Mandatory construction joint surface to be smooth finished and lined with 15 lbs Construction Paper
 - Vertical Shear Key reinforcement (#8 Bar) to be Galvanized
 - Abutment 1 shown, Abutment 3 similar
 - For section "C-C" and "B-B" location, see "ABUTMENT 1 & 3 LAYOUT" sheets

LEGEND:

— Indicates New Construction
 - - - - - Indicates Existing Structure

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

DESIGN	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA
DETAILS	BY ANTONETTE L. ONG	CHECKED M. MUQTADIR/F. ABERRA
QUANTITIES	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA

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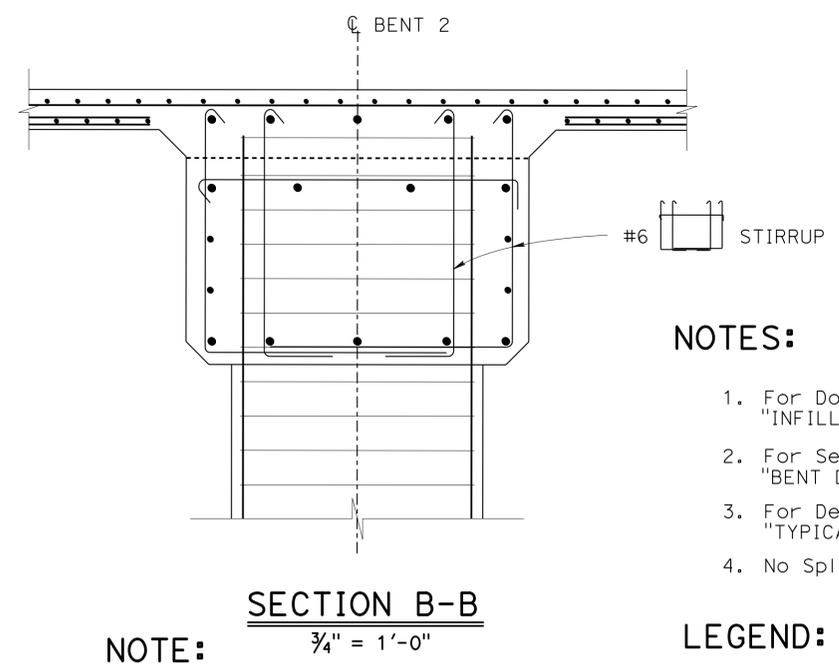
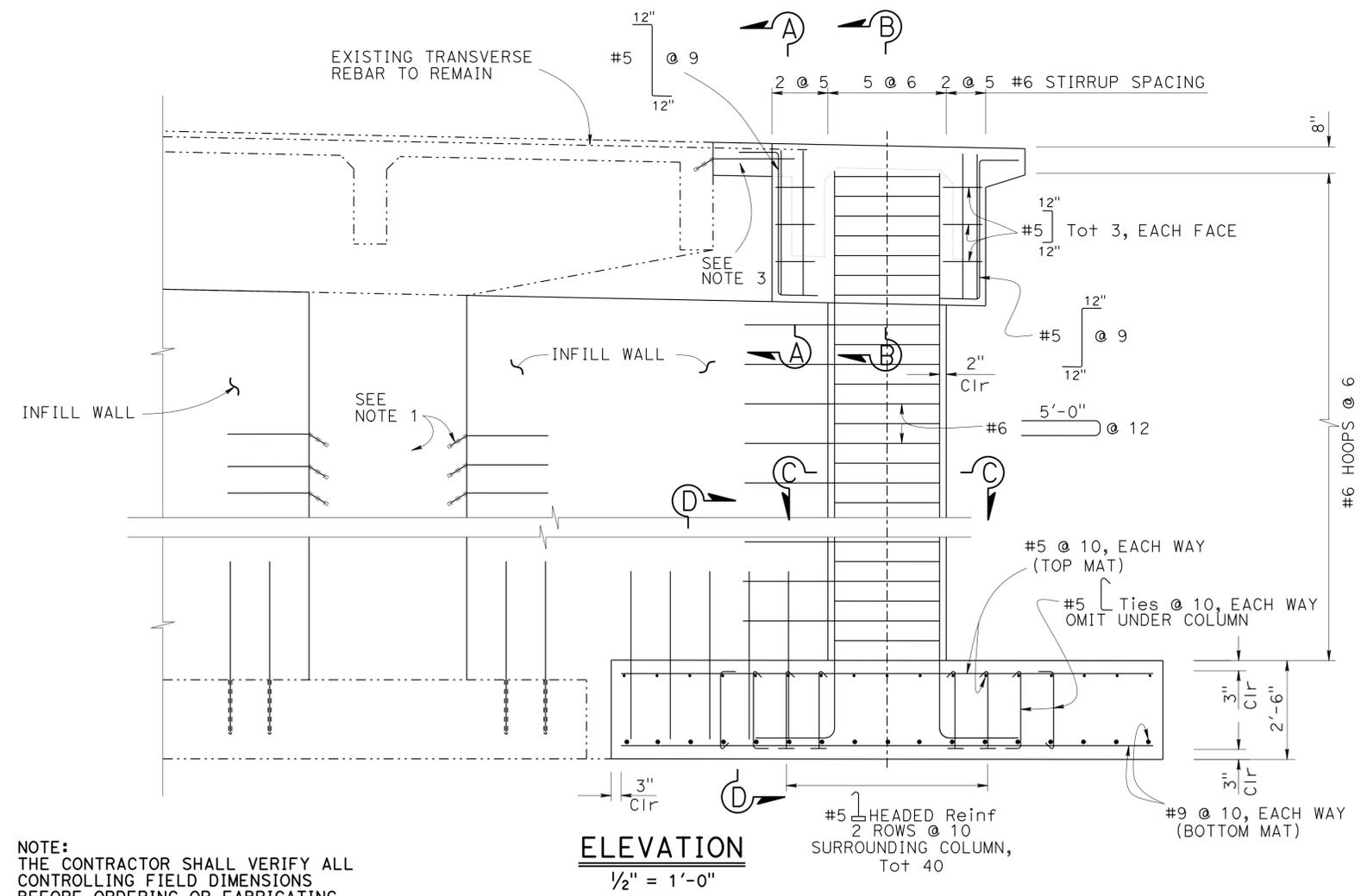
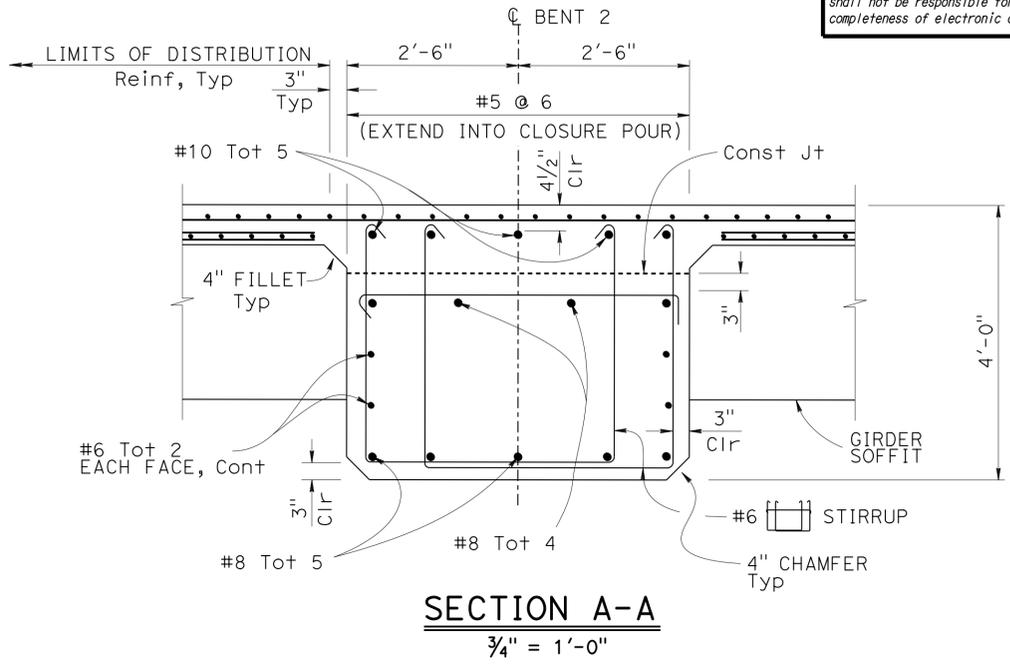
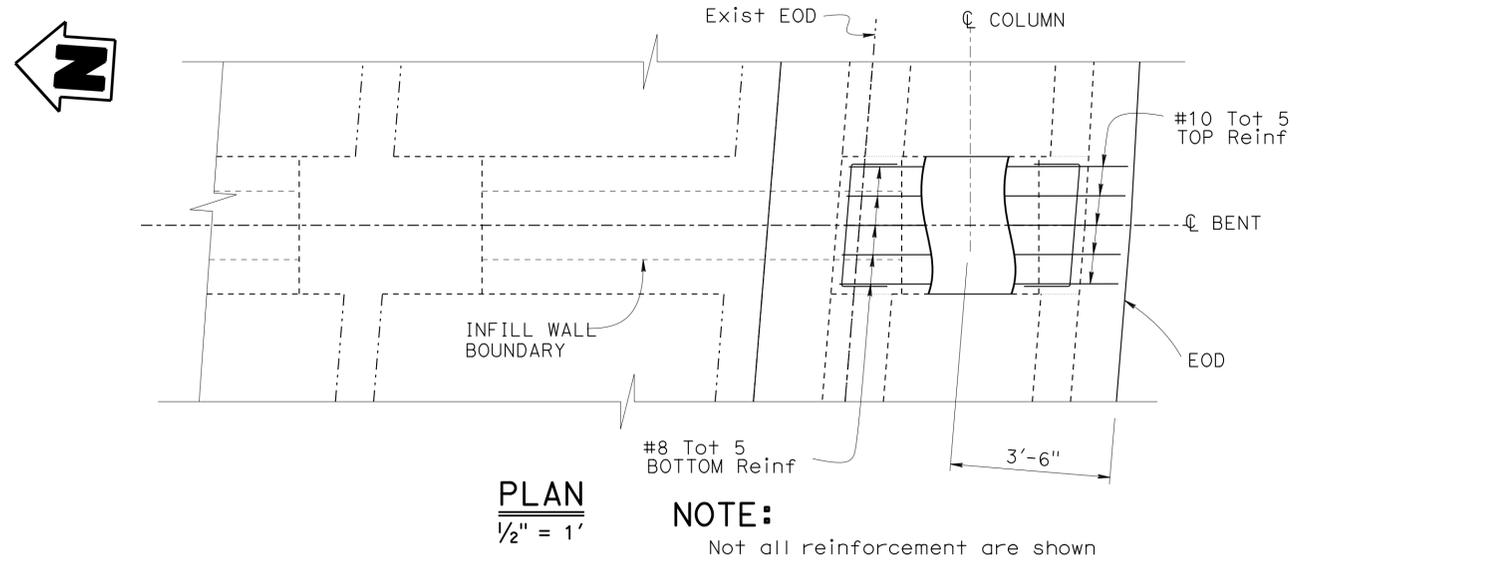
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-1528
POST MILE	38.51

GRAND AVENUE UC (WIDEN)
ABUTMENT DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1603	2313

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- NOTES:**
- For Dowel detail, see "INFLILL SHEAR WALL DETAILS" sheet
 - For Sections "C-C", "D-D", see "BENT DETAIL NO. 1" sheet
 - For Deck Closure details, see "TYPICAL SECTION" sheet
 - No Splice allowed for main Column Reinf
- LEGEND:**
- Indicates New Construction
 - - - Indicates Existing Structure

NOTE:
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NOTE:
For details not shown, see "SECTION A-A"

DESIGN	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA
DETAILS	BY ANTONETTE L. ONG	CHECKED FEIRUZ ABERRA
QUANTITIES	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA

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DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO. 53-1528
POST MILE 38.51
GRAND AVENUE UC (WIDEN)
BENT 2 LAYOUT

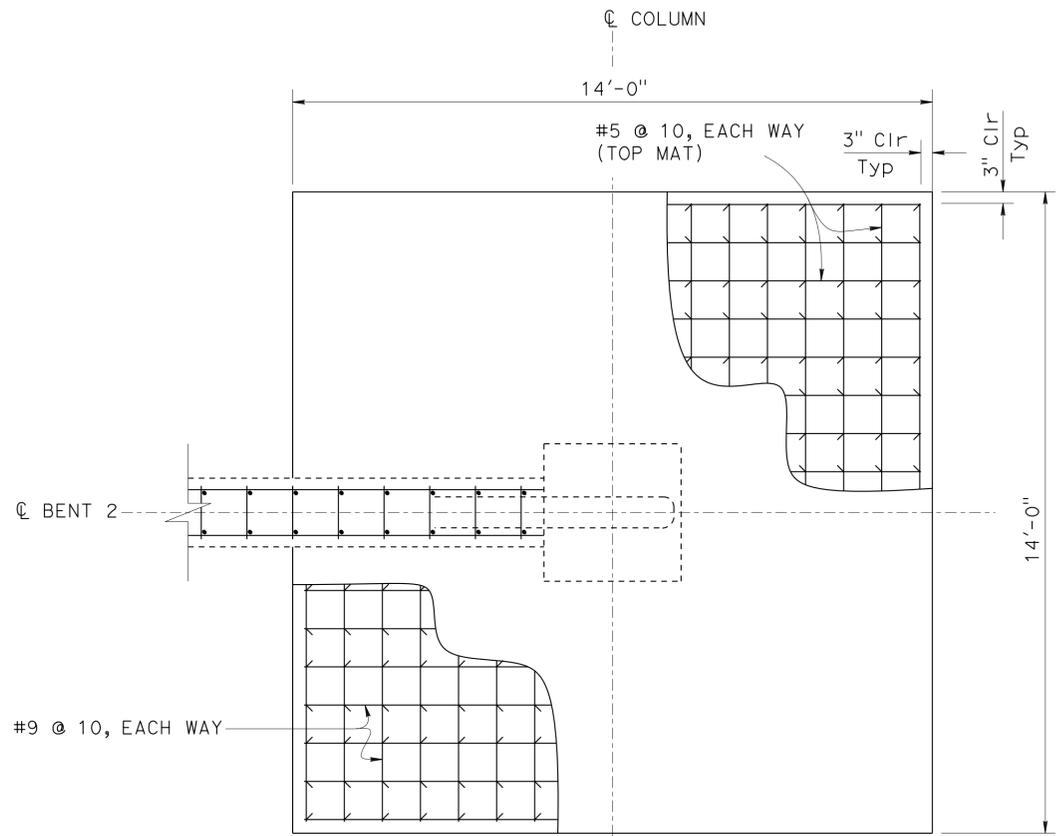
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07	LA	10	37.2/42.4	1604	2313

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 REGISTERED CIVIL ENGINEER DATE

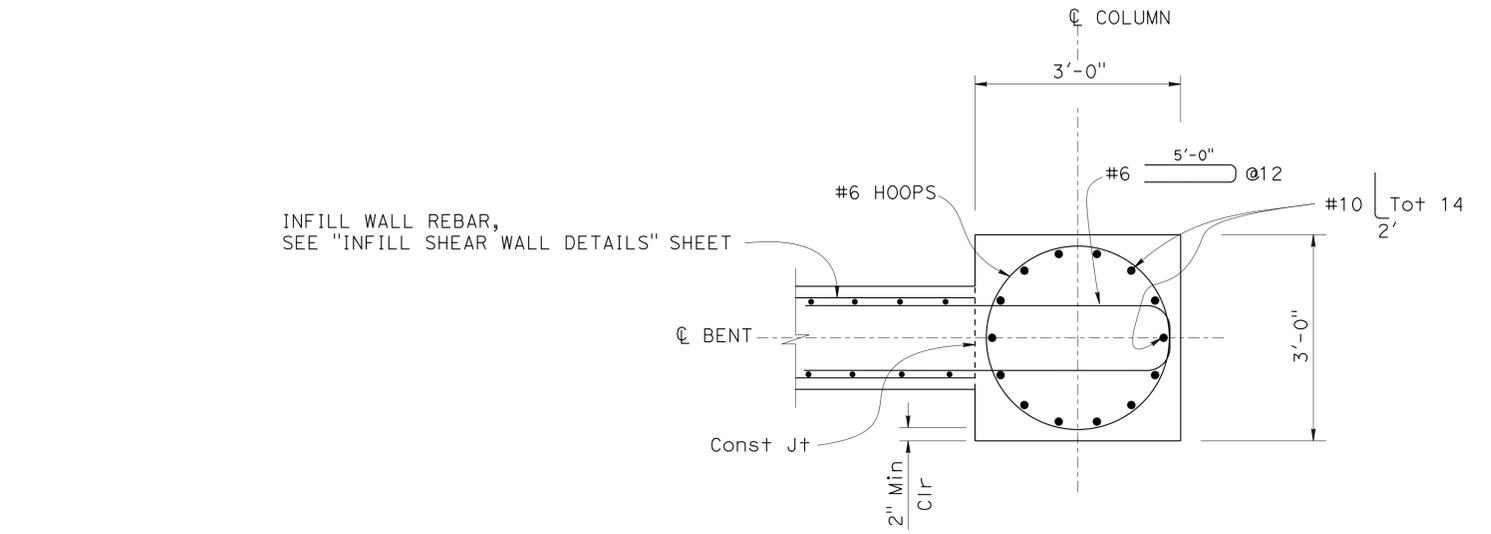
6-1-15
 PLANS APPROVAL DATE

Dawit T Worku
 No. C60711
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

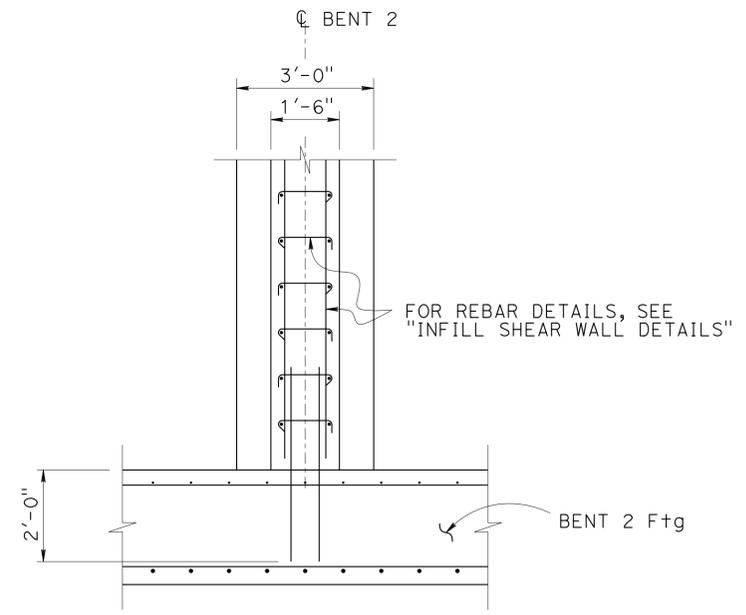
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FOOTING PLAN
 $\frac{1}{2}'' = 1'-0''$



SECTION C-C
 $\frac{3}{4}'' = 1'$



SECTION D-D
 $\frac{1}{2}'' = 1'-0''$

NOTE:
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QUANTITIES	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA

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DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-1528
POST MILE	38.51

GRAND AVENUE UC (WIDEN)
BENT DETAILS NO. 1

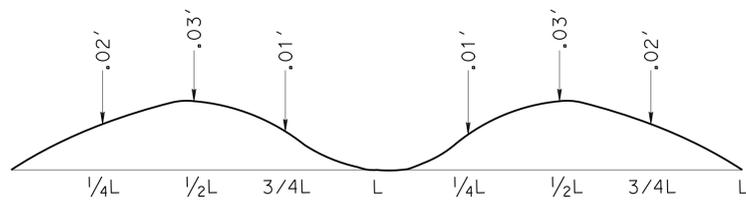
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07	LA	10	37.2/42.4	1606	2313

Dawit Tadelle Esq 10/01/14
 REGISTERED CIVIL ENGINEER DATE

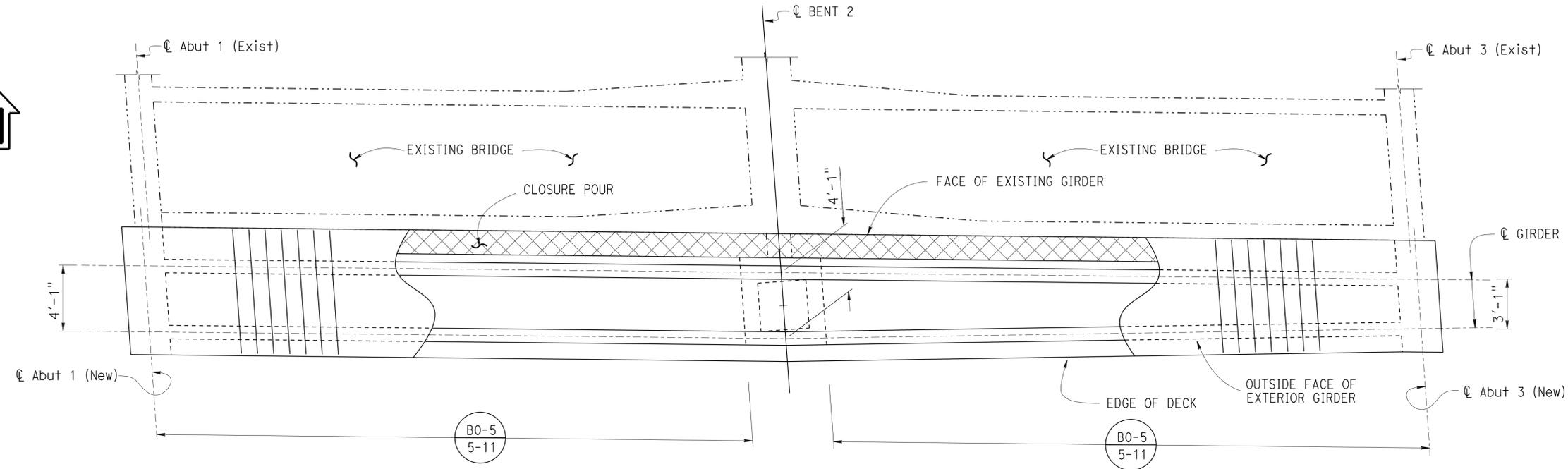
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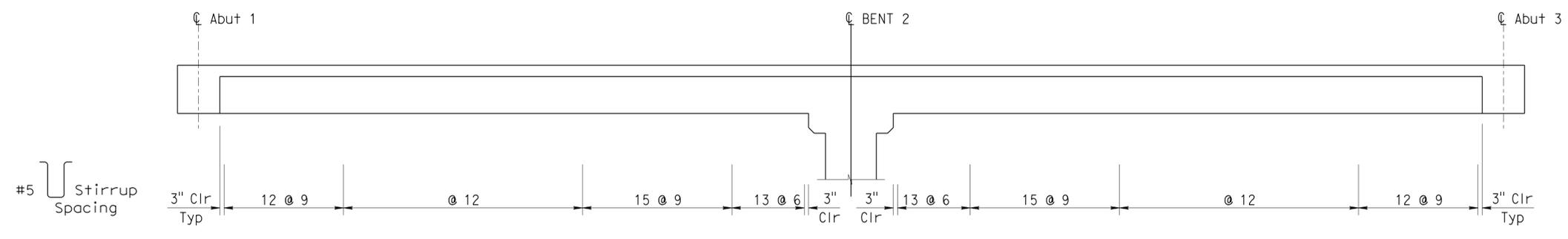
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CAMBER DIAGRAM
 NO SCALE



GIRDER LAYOUT
 1/4" = 1'-0"



LONGITUDINAL SECTION
 NO SCALE

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

- LEGEND:**
- Indicates New Construction
 - - - - - Indicates Existing Structure
 - XXXXX Indicates Closure Pour

DESIGN	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA
DETAILS	BY ANTONETTE L. ONG	CHECKED M. MUQTADIR/F. ABERRA
QUANTITIES	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA

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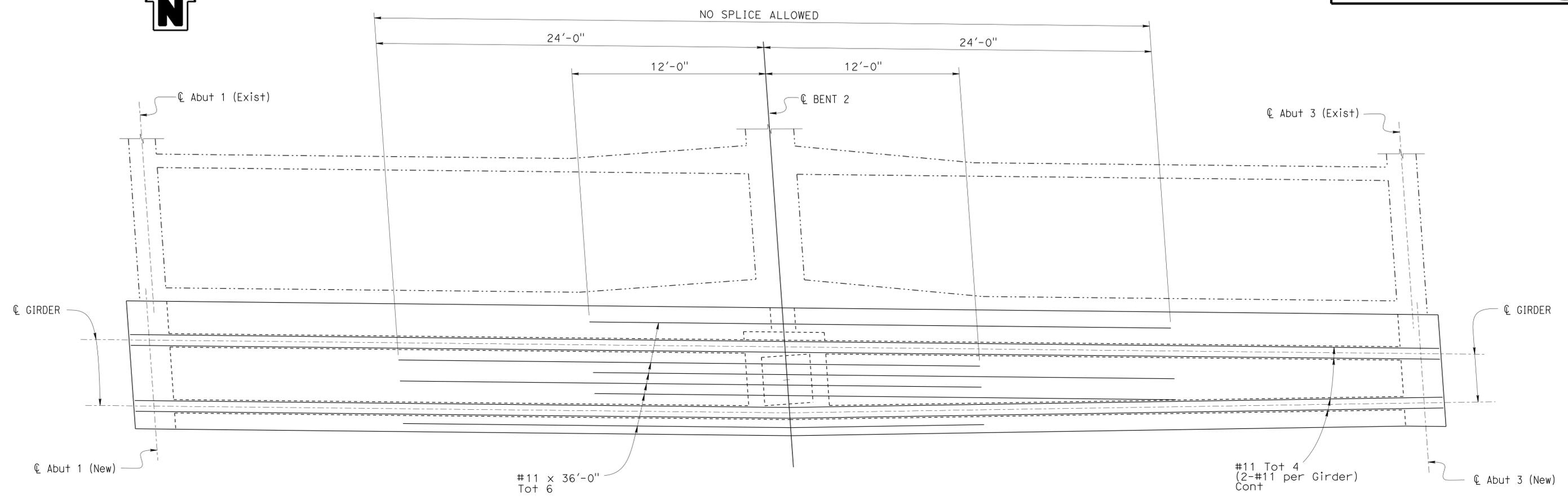
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-1528
POST MILE	38.51

GRAND AVENUE UC (WIDEN)
GIRDER LAYOUT

14406
 TIME PLOTTED =>
 18-MAY-2015
 DATE PLOTTED =>

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1607	2313
Davit Tadelle Esq		10/01/14		REGISTERED CIVIL ENGINEER DATE	
6-1-15		PLANS APPROVAL DATE			
Davit T Worku		REGISTERED PROFESSIONAL ENGINEER			
No. C60711		Exp. 12-31-14			
CIVIL		STATE OF CALIFORNIA			
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TOP LONGITUDINAL REINFORCEMENT
 $\frac{5}{16}'' = 1'-0''$

NOTE:
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LEGEND:
 ————— Indicates New Construction
 - - - - - Indicates Existing Structure

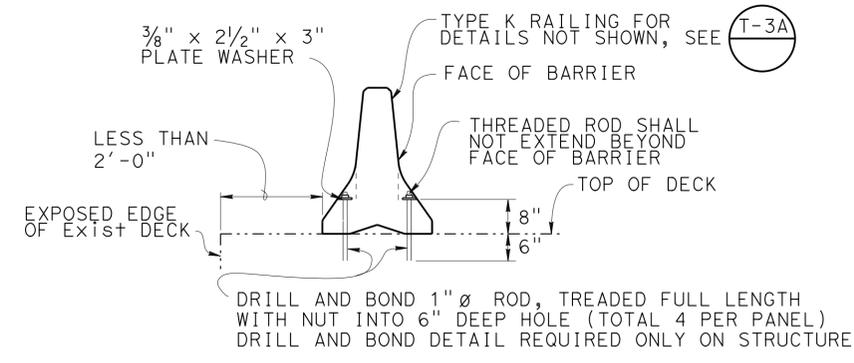
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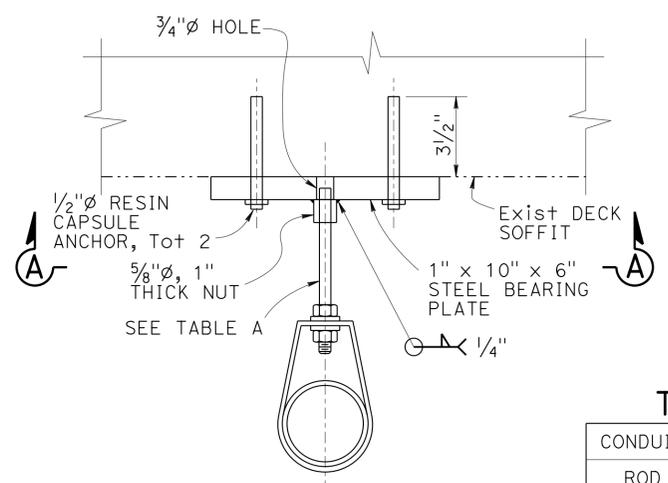
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-1528
POST MILE	38.51

GRAND AVENUE UC (WIDEN)
GIRDER REINFORCEMENT



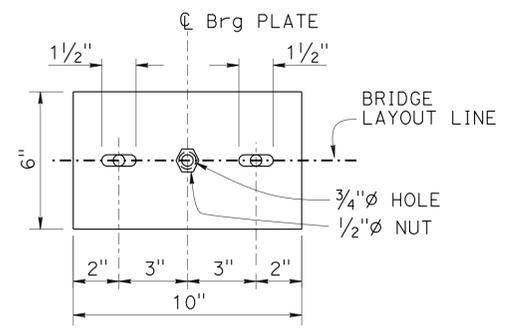
TYPE K RAILING ATTACHMENT DETAIL
NO SCALE



CONDUIT HANGER SUPPORT DETAIL
3\"/>

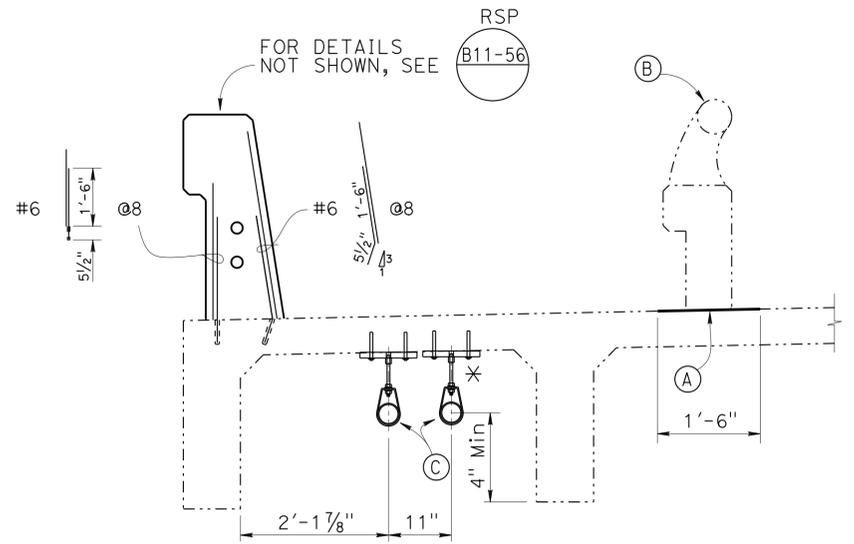
TABLE A

CONDUIT	3/2"
ROD	5/8"Ø
STRAP	0.105" x 1/2"
SUPPORT SPACING	10'-0"



VIEW A-A BEARING PLATE
3\"/>

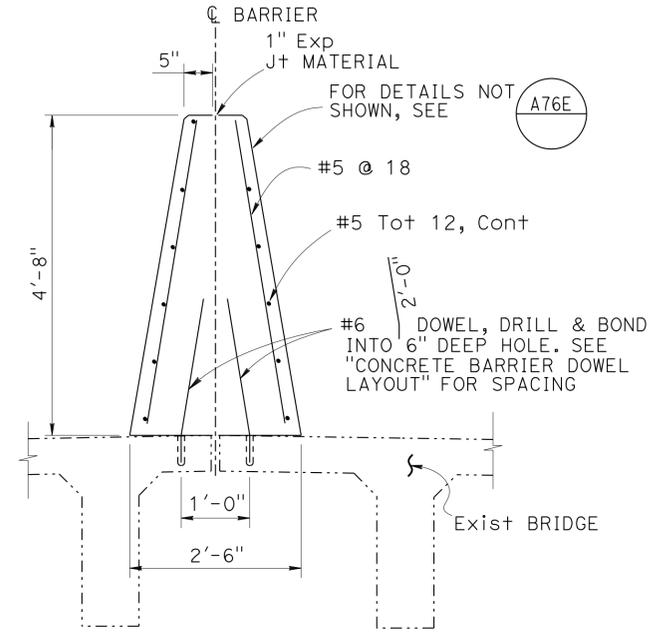
NOTE:
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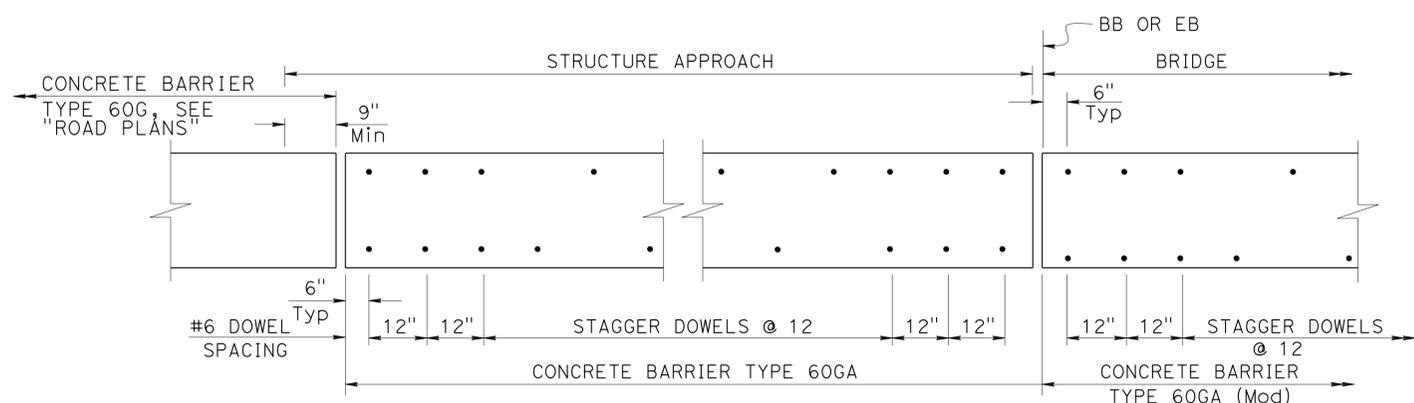
CONCRETE BARRIER TYPE 736 (MOD 3)
3/4\"/>

NOTES:

- (A) Refinish Bridge Deck
 - (B) Remove Existing Concrete Bridge Rail Salvage Metal Bridge Railing
 - (C) 2-3 1/2" * Communication Conduits, see "ROAD PLANS"
* Hangers to be placed at staggered spacing
1. All Steel Pipes and Pipe Support Hardware shall be Galvanized
 2. Core Hole Diameter at Abutments and Bent equal to 5 1/2"
 3. Seal Utility at Abutment with Concrete or Mortar, after tightly wrapping utility with two layers of 15 lb Building Paper



CONCRETE BARRIER TYPE 60GA (MOD)
3/4\"/>



CONCRETE BARRIER DOWEL LAYOUT
NO SCALE

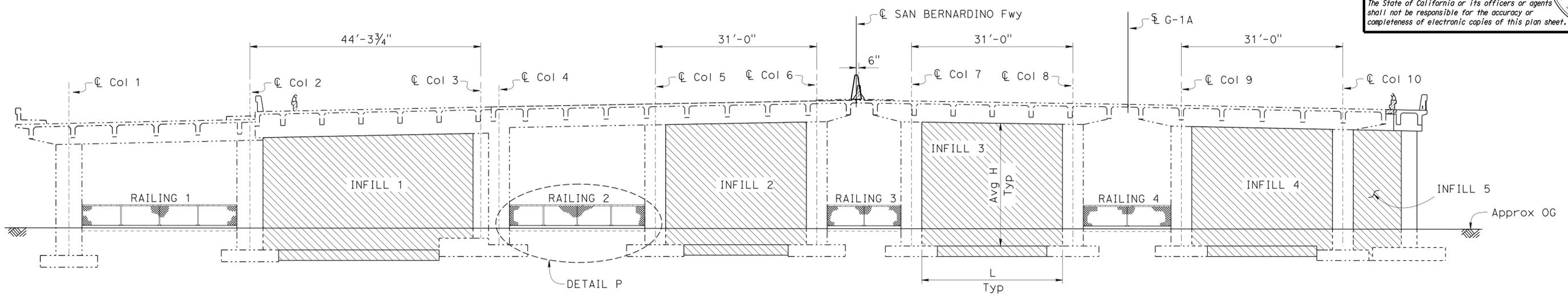
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DETAILS	BY ANTONETTE L. ONG	CHECKED FEIRUZ ABERRA
QUANTITIES	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA

STATE OF CALIFORNIA
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DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-1528
POST MILE	38.51

GRAND AVENUE UC (WIDEN)
MISCELLANEOUS DETAILS



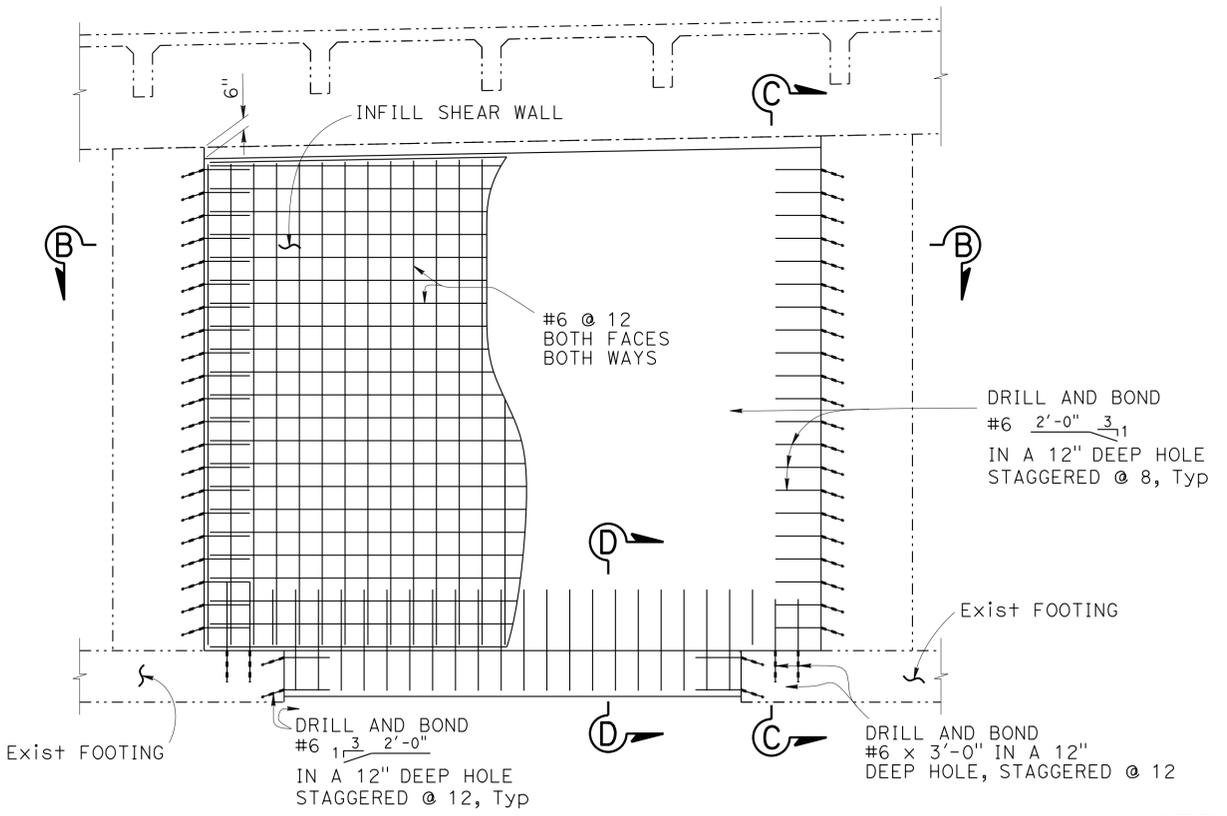
INFILL WALL ELEVATION
1" = 10'-0"

INFILL WALL DIMENSIONS (APPROXIMATE)

WALL	L (ft)	Avg H (ft)
INFILL 1	40.31	21.19
INFILL 2	27.00	23.17
INFILL 3	27.00	23.59
INFILL 4	27.00	22.98
INFILL 5	9.21	22.22

RAILING LENGTH (APPROXIMATE)

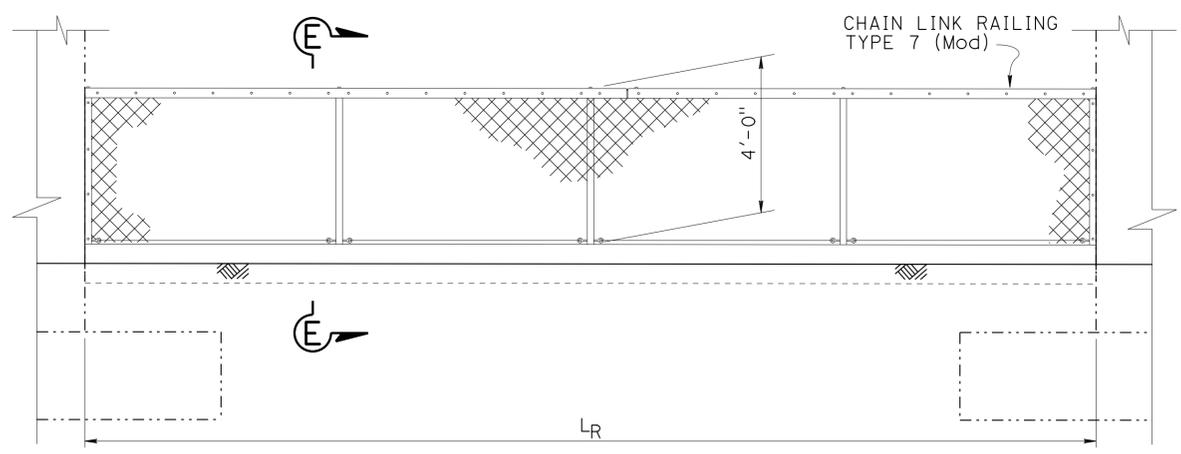
LOCATION	LR (ft)
RAILING 1	27.54
RAILING 2	26.00
RAILING 3	14.17
RAILING 4	16.83



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

NOTE:

For Section B-B, Section C-C, Section D-D and Section E-E, see "INFILL SHEAR WALL DETAILS NO. 2" sheet



DETAIL P

NOTE: 1" = 5'-0"
For details not shown, see B11-52

LEGEND:

- Indicates Existing Structure
- ▨ Indicates Infill Shear Wall
- ▩ Bridge Removal (Portion)

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

DESIGN	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA
DETAILS	BY R. PALO/ C. LE/A. ONG	CHECKED M. MUQTADIR/F. ABERRA
QUANTITIES	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA

STATE OF CALIFORNIA
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DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-1528
POST MILE	38.51

GRAND AVENUE UC (WIDEN)
INFILL SHEAR WALL DETAILS NO. 1

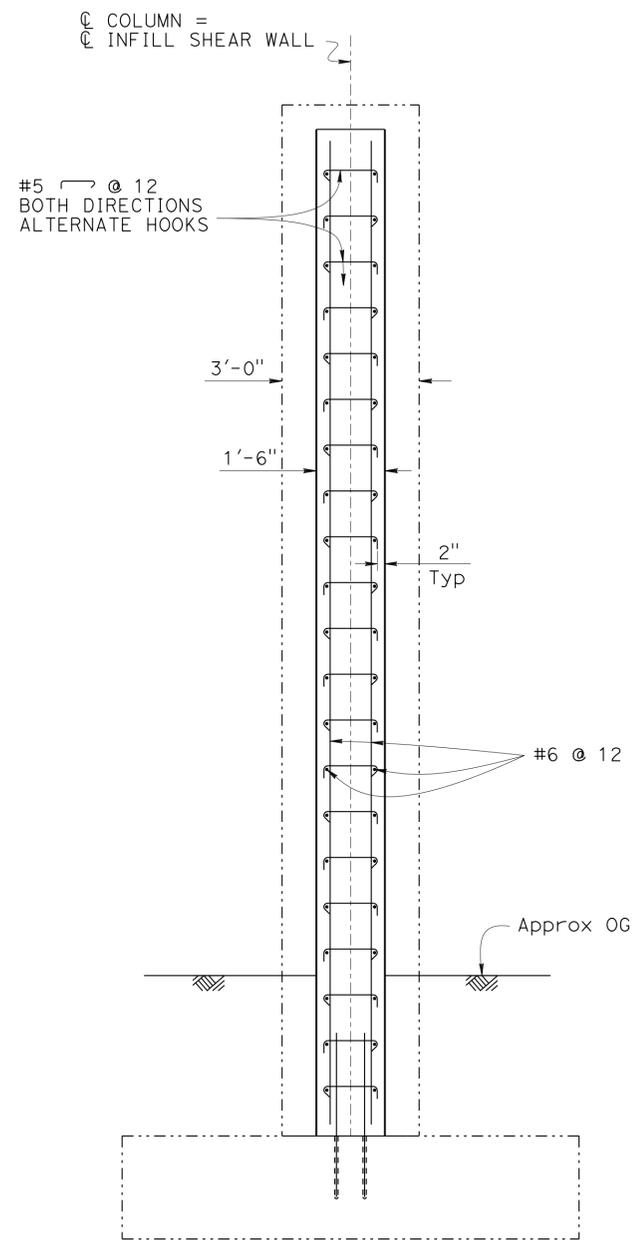
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1610	2313

Dawit Tadelle Esq 10/01/14
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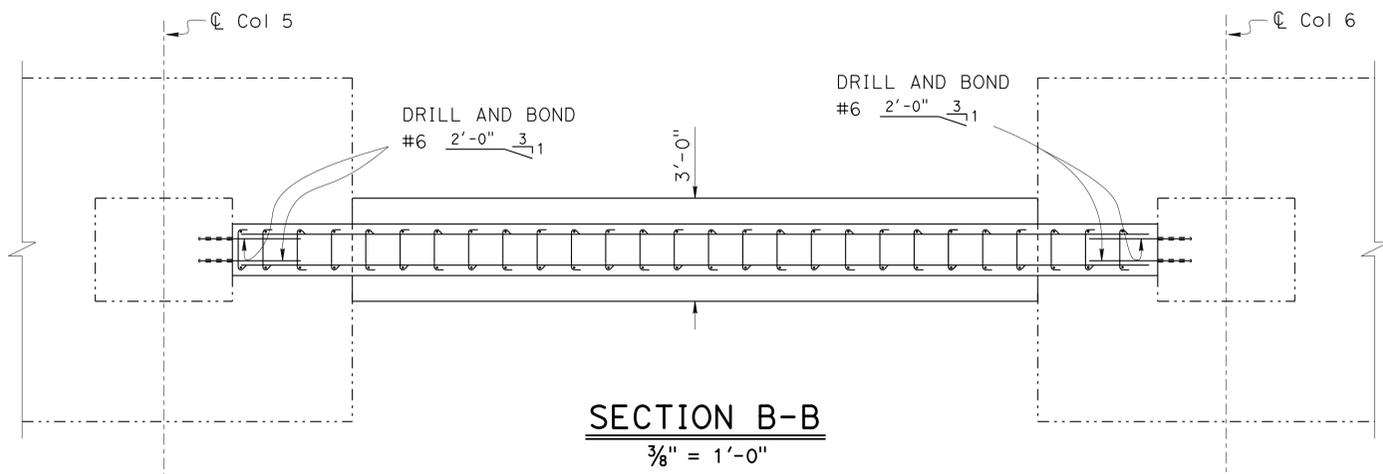
6-1-15
 PLANS APPROVAL DATE

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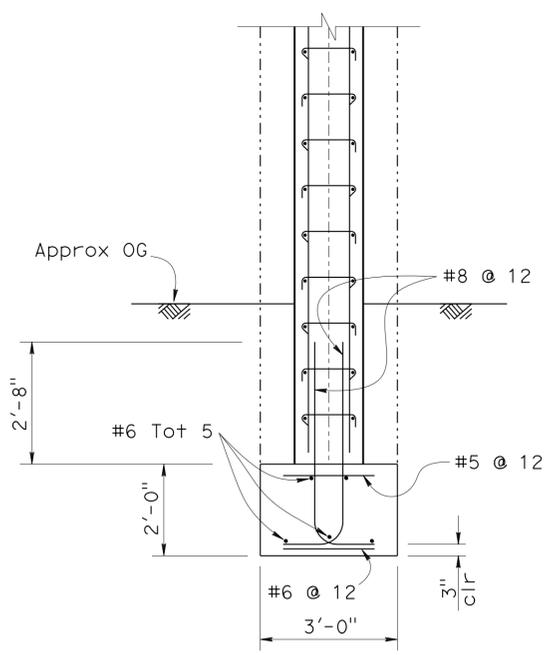
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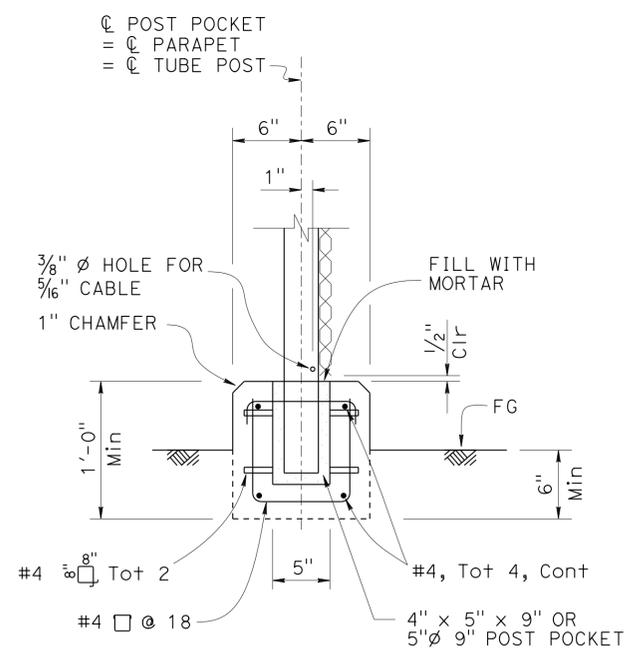
SECTION C-C
 $\frac{1}{2}'' = 1'-0''$



SECTION B-B
 $\frac{3}{8}'' = 1'-0''$



SECTION D-D
 $\frac{1}{2}'' = 1'-0''$



SECTION E-E
POST ANCHORAGE DETAIL
 $\frac{1}{2}'' = 1'-0''$

LEGEND:

———— Indicates New Construction

----- Indicates Existing Structure

NOTE:
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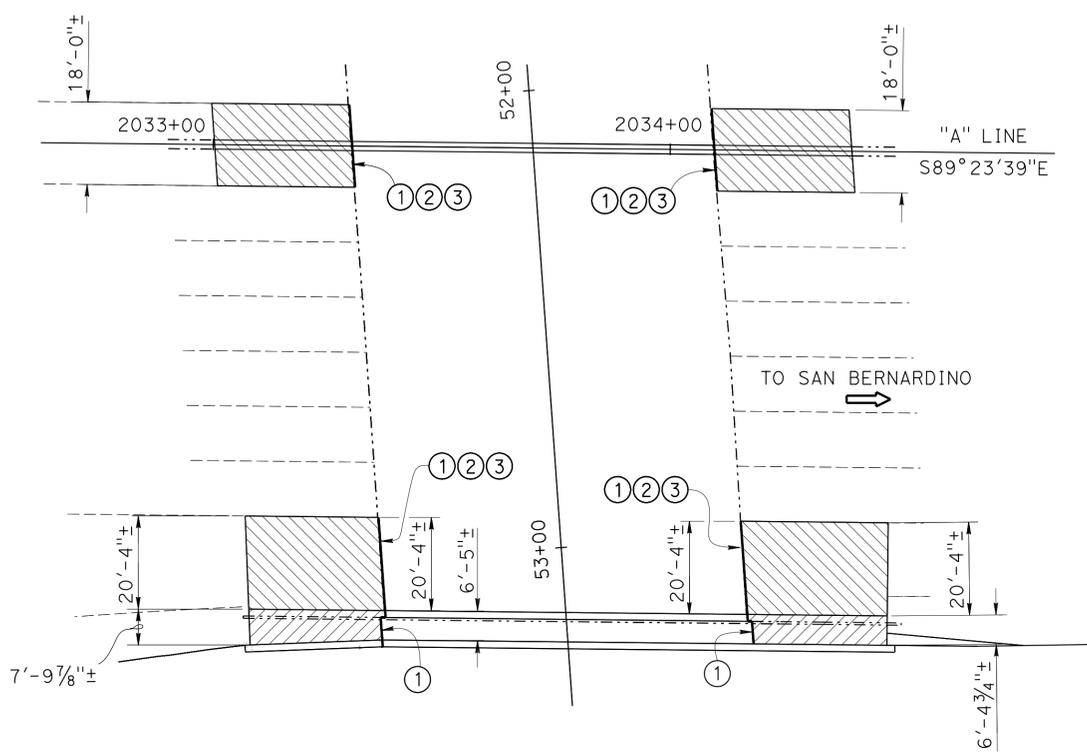
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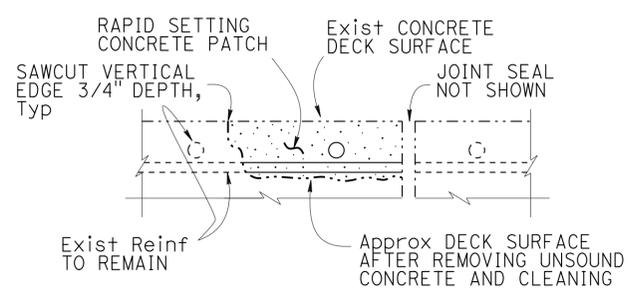
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-1528
POST MILE	38.51

GRAND AVENUE UC (WIDEN)
INFILL SHEAR WALL DETAILS NO. 2



APPROACH SLAB LAYOUT
1" = 20'



JOINT SPALL REPAIR DETAIL
NO SCALE

NOTE: REINFORCEMENT MAY BE ENCOUNTERED DURING DECK CONCRETE REMOVAL AND IS TO REMAIN UNDAMAGED. LOCATIONS TO BE DETERMINED BY THE ENGINEER

JOINT SPALL REPAIR TABLE

LOCATION	APPROX DEPTH OF JOINT SPALLS (Inch)	APPROX WIDTH OF JOINT SPALLS (Inch)	APPROX LENGTH OF JOINT SPALLS (Feet)
Abut 1	3	6	4
Abut 3	3	6	4

NOTES:

- ① Joint seal MR = 1/2"
- ② Prior to placement of new joint seal, remove unsound concrete and patch with rapid setting concrete
- ③ Paving Notch extension

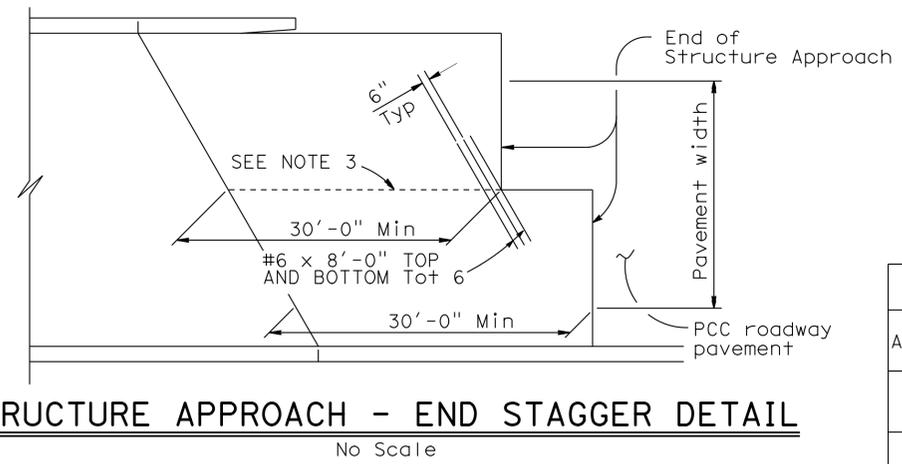
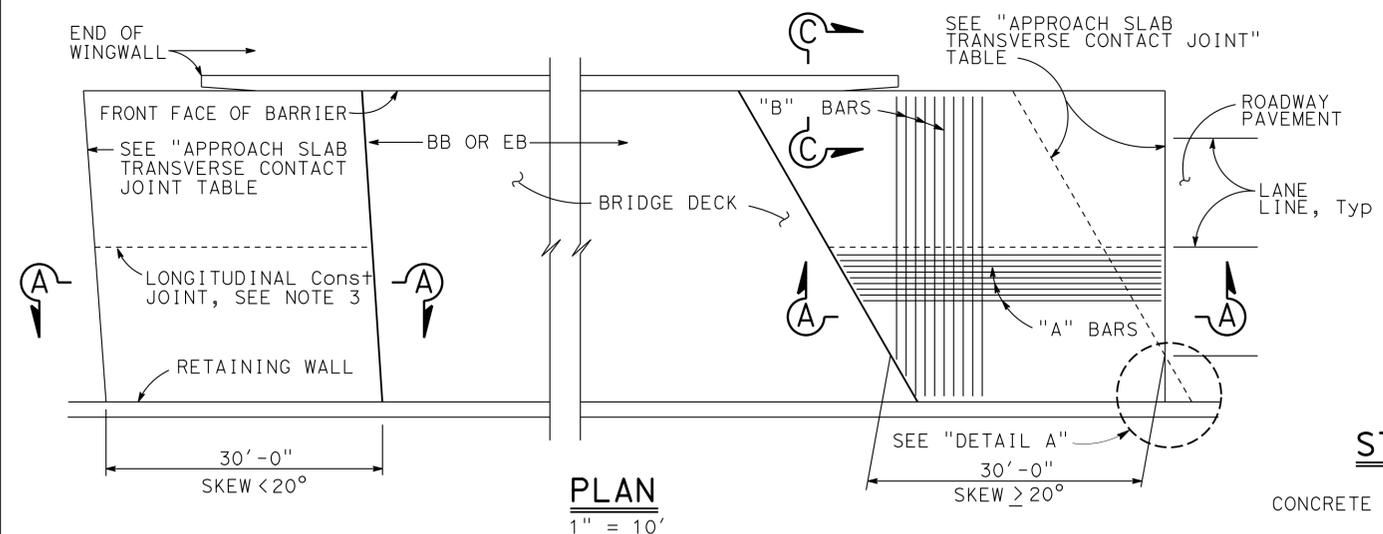
LEGEND:

- Indicates New Construction
- - - Indicates Existing Structure
- Indicates Joint Seal
- ▨ Indicates Structure Approach Type N(30S)
- ▨ Indicates Structure Approach Type R(30D)

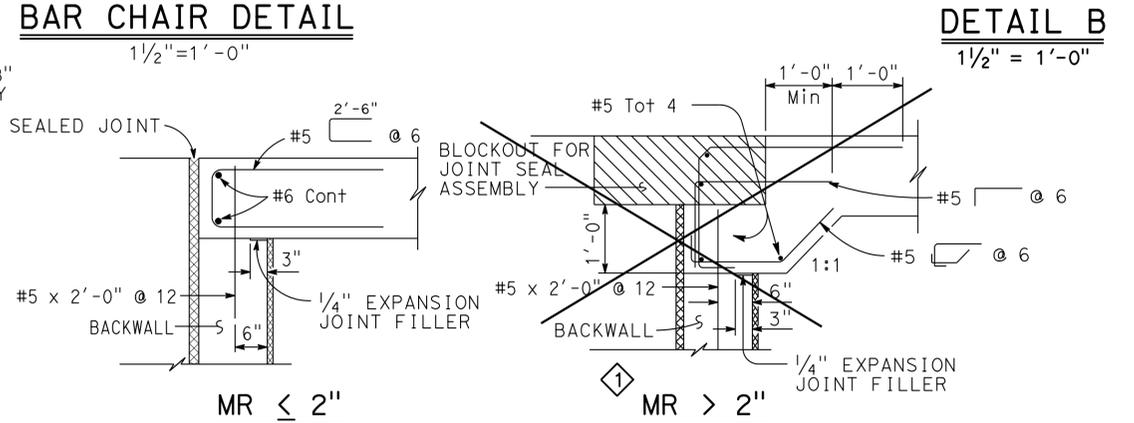
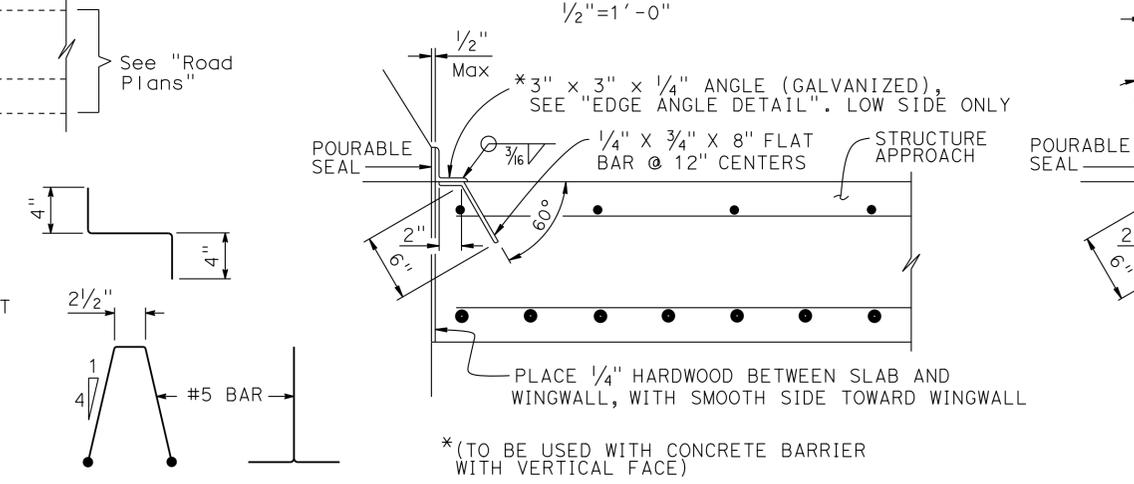
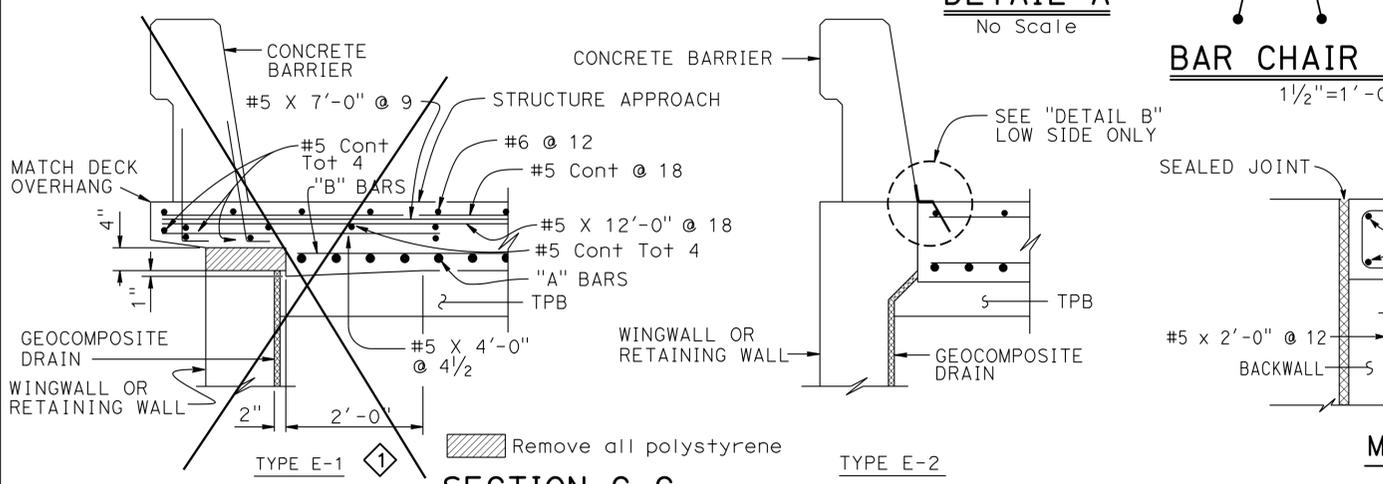
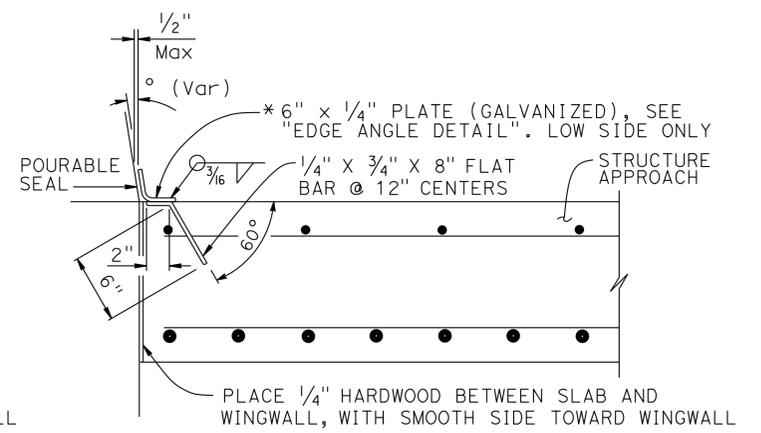
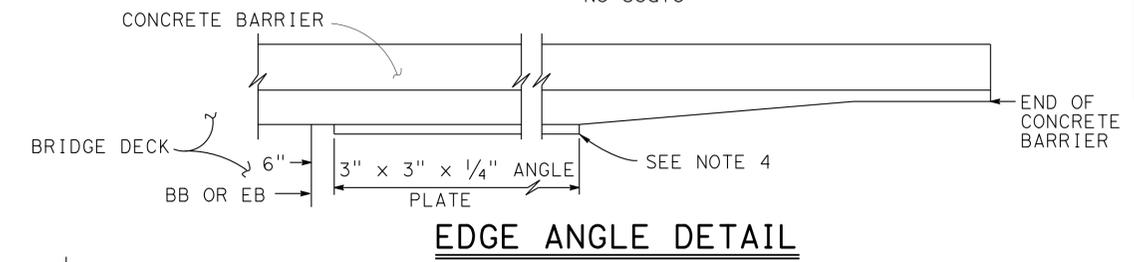
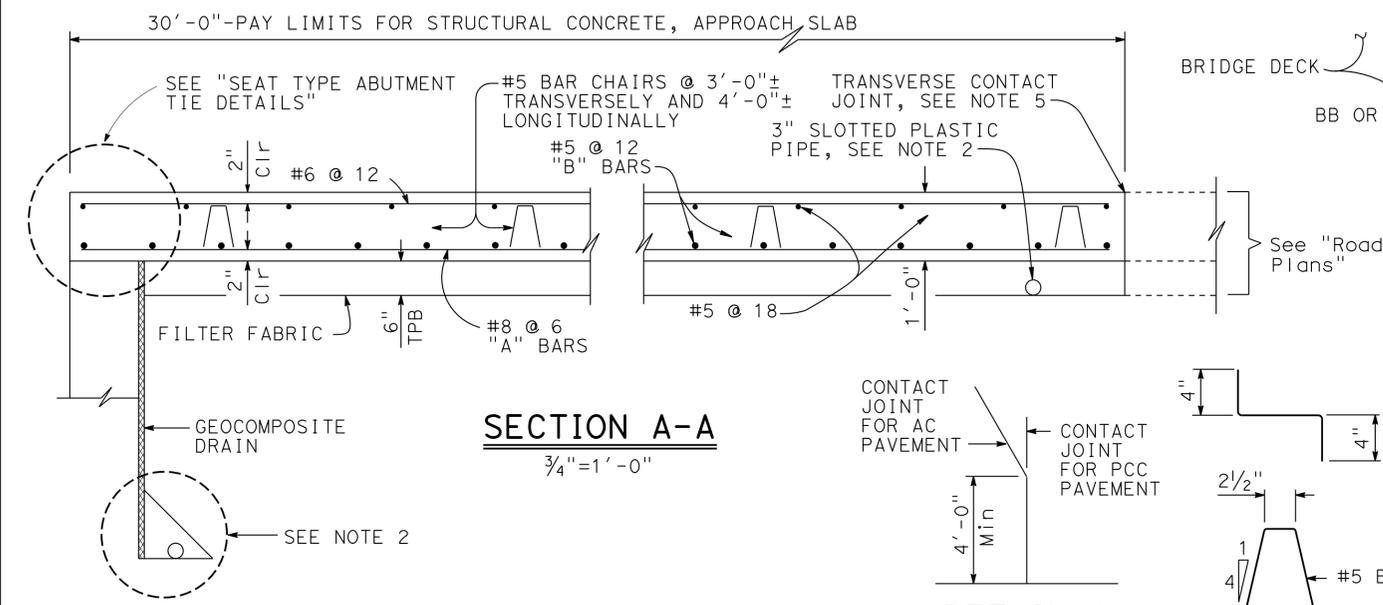
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1612	2313

Dawit Tadelle Eger 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
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APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PN
20° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE



- NOTES:**
- For details not shown, see Structure Plans. For MR < 2, adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - For drainage details, see "STRUCTURE APPROACH DRAINAGE DETAILS" sheet.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable.
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10.
 - At the Contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ϕ roadway.

STANDARD DRAWING

FILE NO. **xs3-120**

APPROVAL DATE July 2011

① Deleted Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

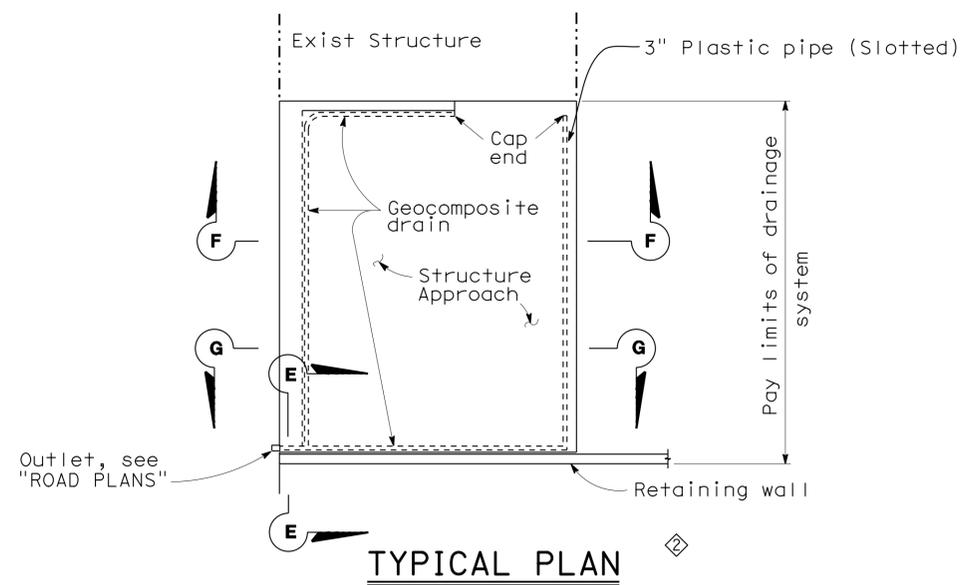
BRIDGE NO. 53-1528
POST MILE 38.51

GRAND AVENUE UC (WIDEN)
STRUCTURE APPROACH TYPE N(30S)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1614	2313

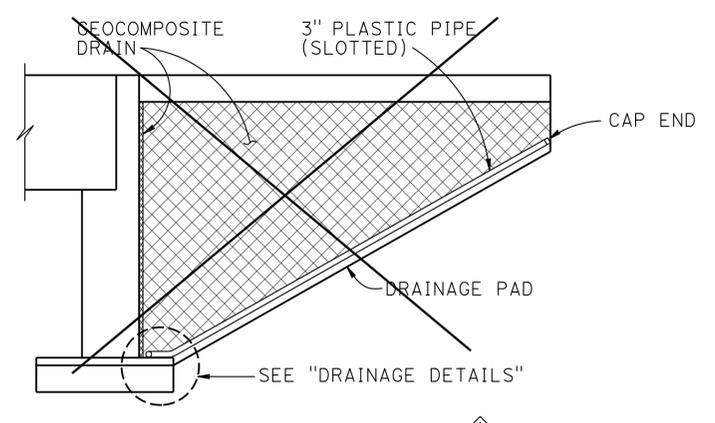
Davit T. Worku 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 No. C60711
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

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.



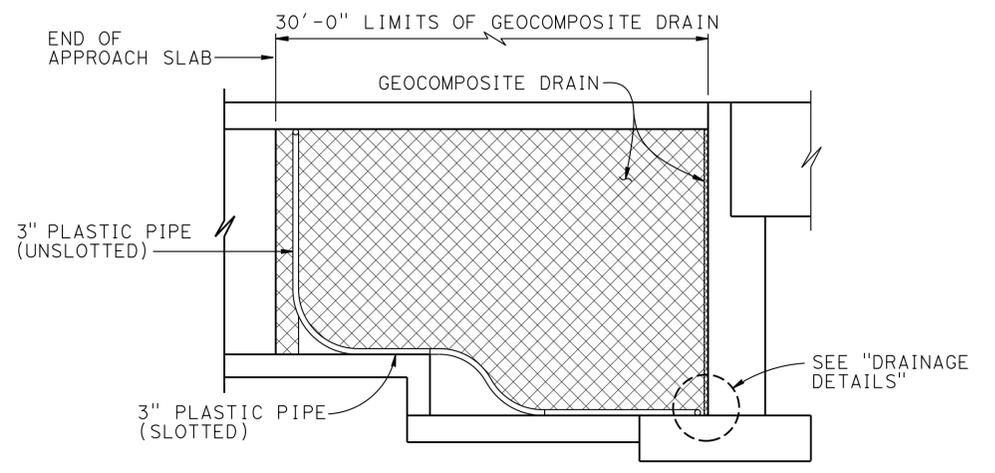
TYPICAL PLAN
1" = 10'-0"

*For pipe layout at staggered end, see "Detail B".



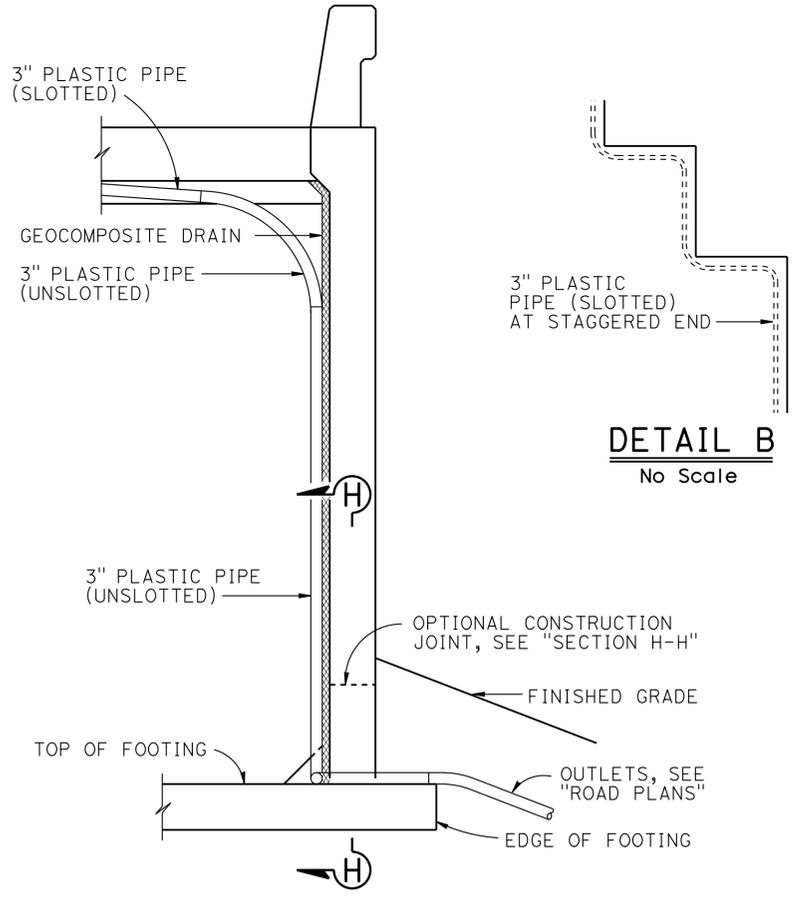
CANTILEVER WINGWALL

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

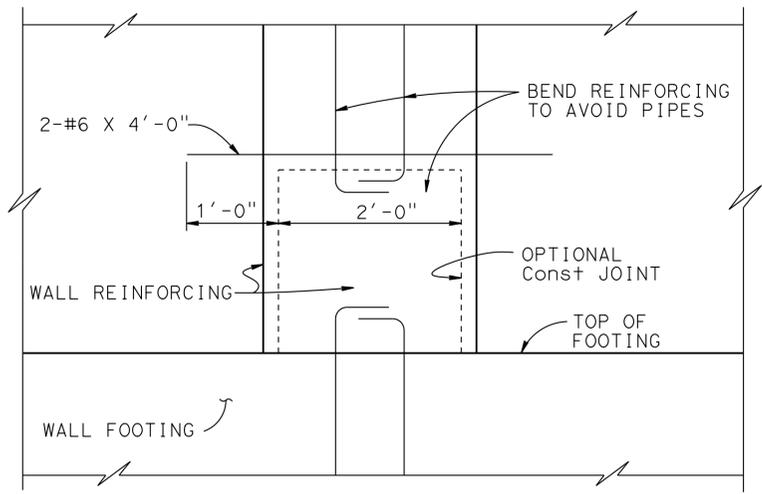


RETAINING WALL WINGWALL DRAINAGE DETAILS

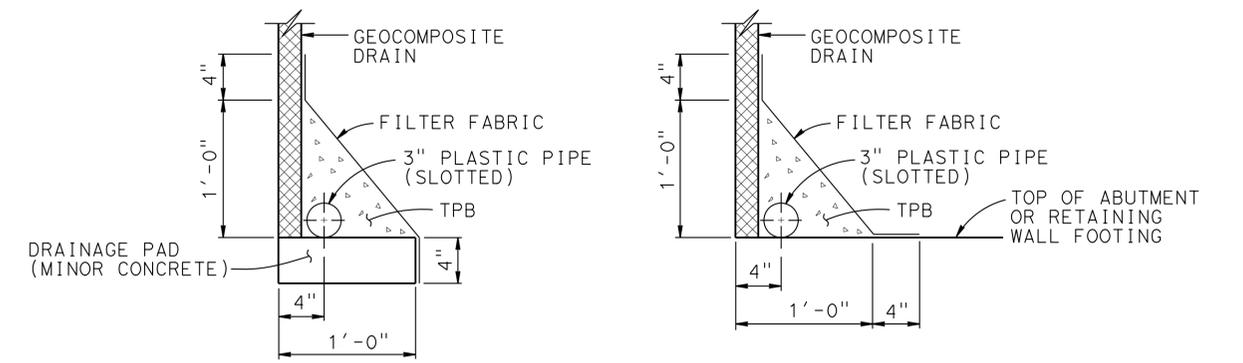
SECTION G-G
1/4" = 1'-0"



DETAIL B
No Scale



SECTION H-H
1" = 1'-0"



WITHOUT FOOTING

WITH FOOTING

DRAINAGE DETAILS
1 1/2" = 1'-0"

NOTE: Bends and junctions in 3" plastic pipe are 30" radius Min

REVISED STANDARD DRAWING	
FILE NO. xs3-110	APPROVAL DATE <u>July 2011</u>

- Ⓛ Deleted Detail
- Ⓜ Modified Detail

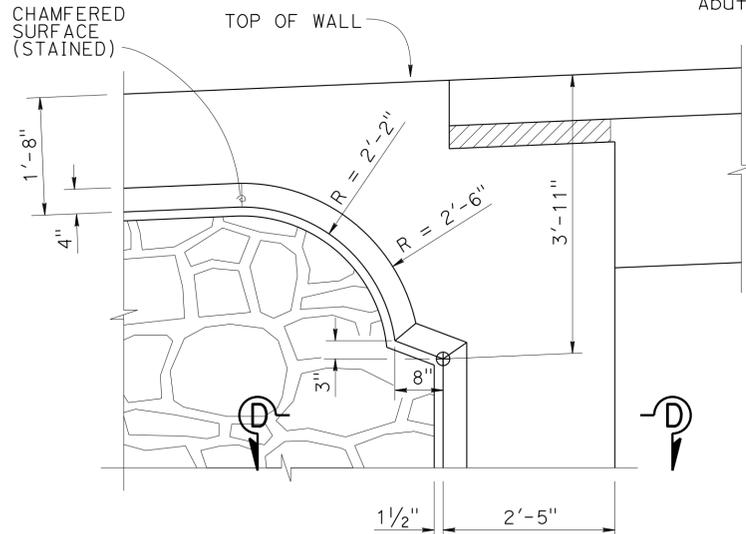
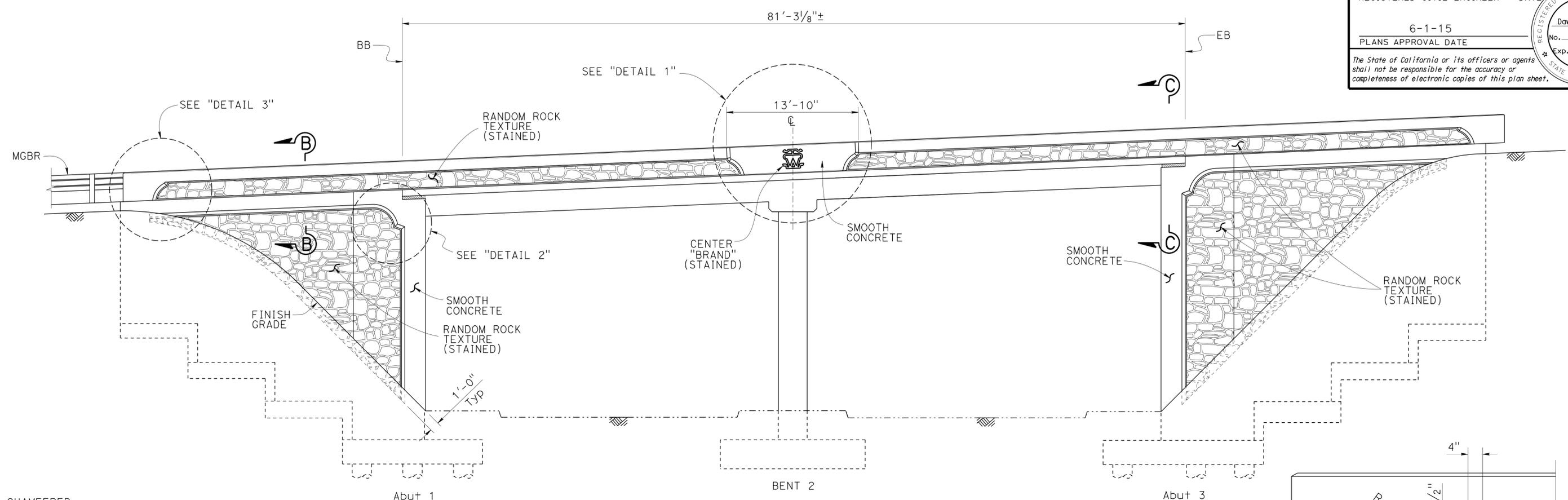
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

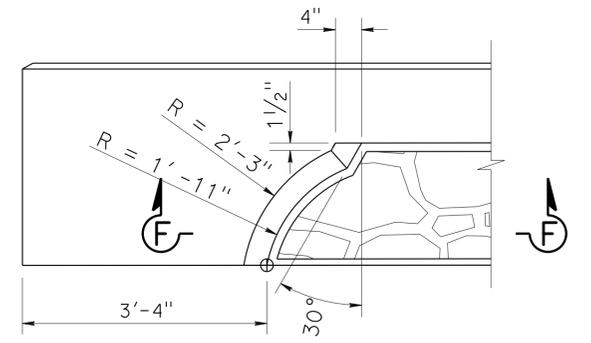
BRIDGE NO.	53-1528
POST MILE	38.51

GRAND AVENUE UC (WIDEN)
STRUCTURE APPROACH DRAINAGE DETAILS

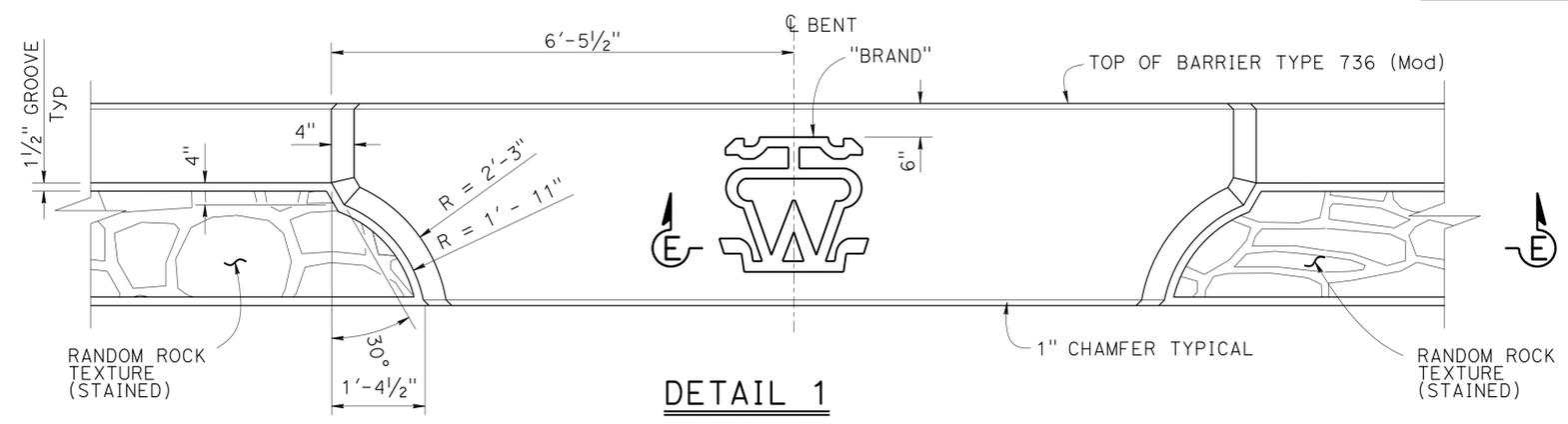
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1615	2313
Davit Tadelle Esq.			10/01/14	REGISTERED CIVIL ENGINEER DATE	
6-1-15			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



DETAIL 2
NO SCALE



DETAIL 3-TYPICAL FOR BARRIER END
NO SCALE



DETAIL 1
NO SCALE

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

DESIGN	BY VALERIE MOORE	CHECKED MOHAMMAD MUQTADIR
DETAILS	BY ANTONETTE L. ONG	CHECKED MOHAMMAD MUQTADIR
QUANTITIES	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

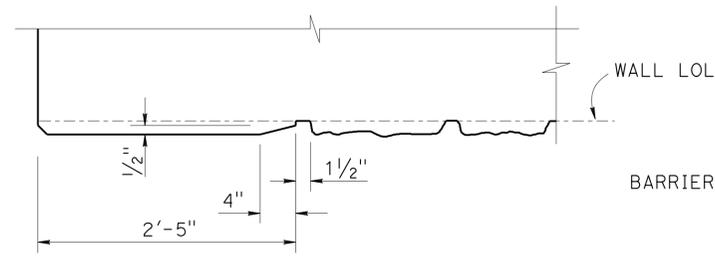
BRIDGE NO.	53-1528
POST MILE	38.51

GRAND AVENUE UC (WIDEN)
ARCHITECTURAL TREATMENT

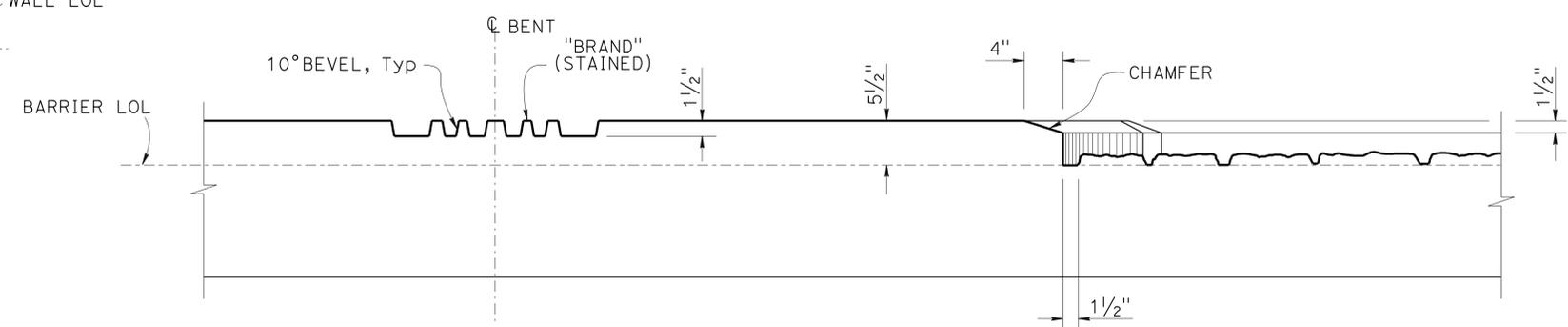
DATE PLOTTED => 18-MAY-2015 TIME PLOTTED => 14:06

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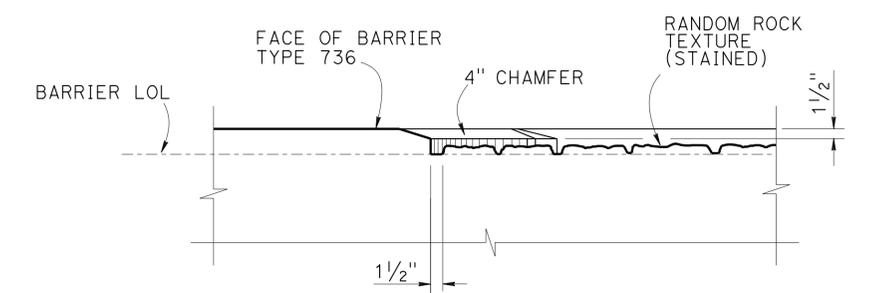
Davit Tadelle Esq 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



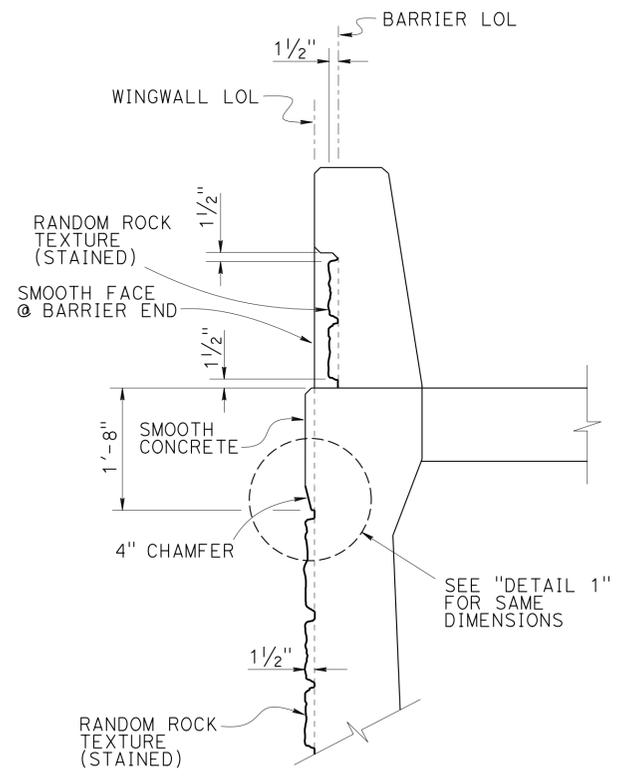
PARTIAL SECTION D-D
NO SCALE



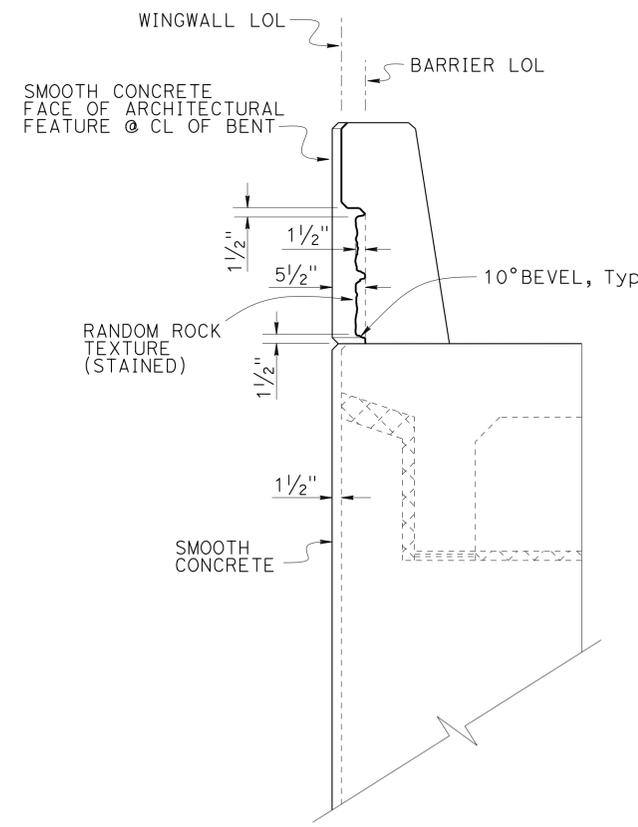
PARTIAL SECTION E-E
NO SCALE



PARTIAL SECTION F-F
NO SCALE



SECTION B-B
NO SCALE

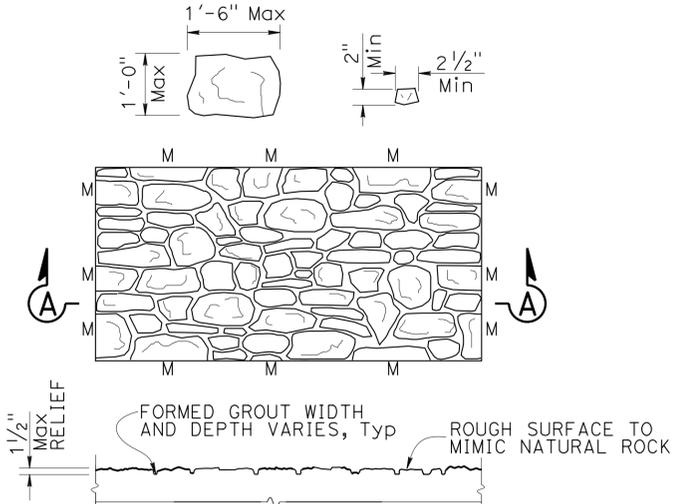


SECTION C-C
NO SCALE

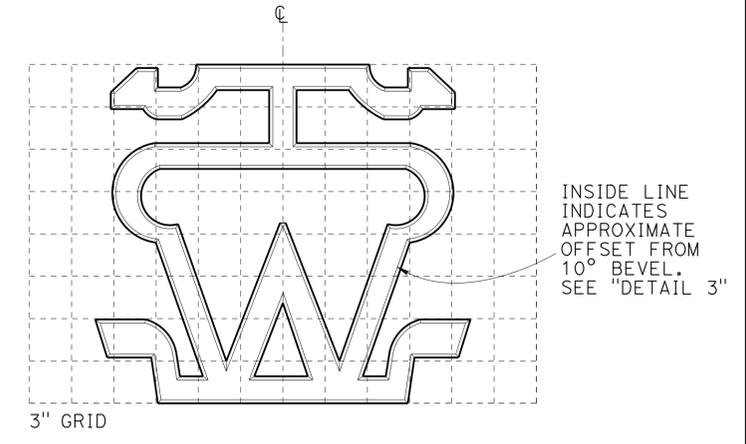
NOTE:

Seamless random rock pattern to have a minimum of 2 to maximum of 4 match points (denoted by "M") for each side (top to bottom and side to side).

STAINED RANDOM ROCK
 FS# 33578, 30372, 30257, 30117, 30099
 FS (denotes Federal Standard Color)



SECTION A-A
RANDOM ROCK TEXTURE
NO SCALE



ARCHITECTURAL SURFACE TREATMENT (CATTLE BRAND PATTERN)

NOTE:

1. Stain Federal Color 30117

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

DESIGN	BY VALERIE MOORE	CHECKED MOHAMMAD MUQTADIR
DETAILS	BY ANTONETTE L. ONG	CHECKED MOHAMMAD MUQTADIR
QUANTITIES	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

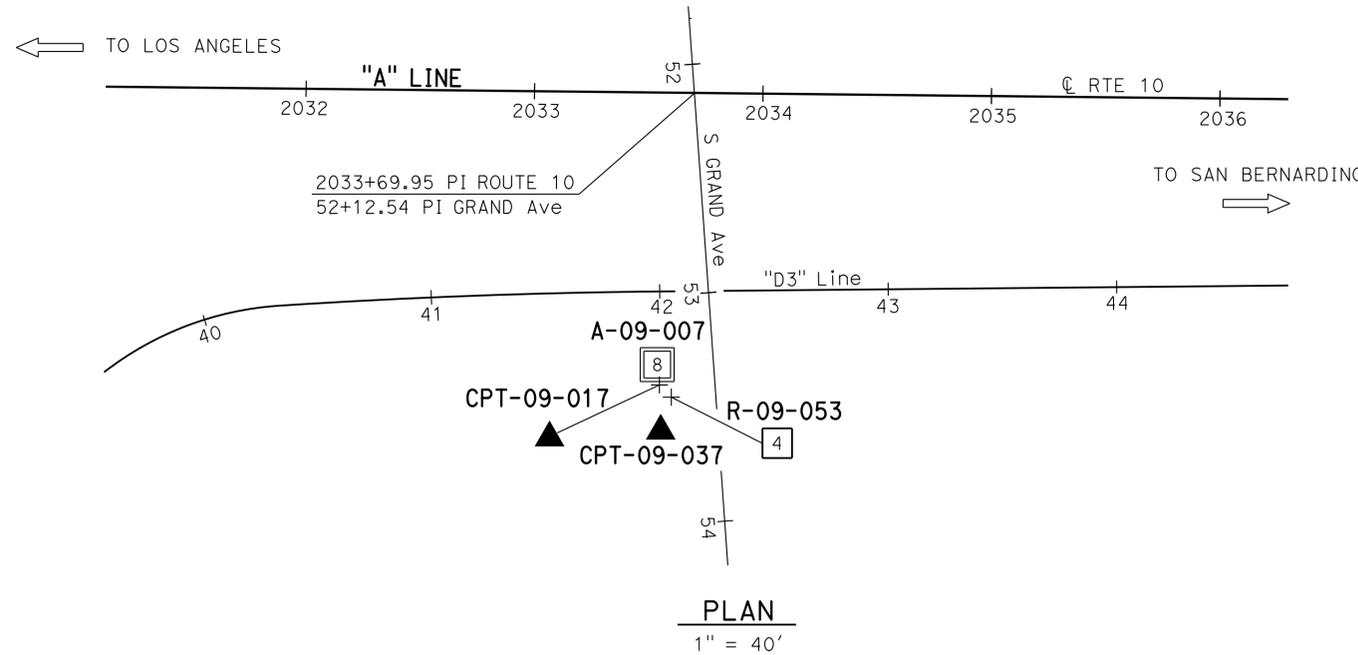
BRIDGE NO.	53-1528
POST MILE	38.51

GRAND AVENUE UC (WIDEN)
ARCHITECTURAL TREATMENT DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	10	37.2/42.4	1617	2313
			REGISTERED CIVIL ENGINEER	1-13-14	
			Yoojoong Choi	No. C71480	
			PLANS APPROVAL DATE	6-1-15	
			<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>		

BENCH MARK

Elev 525.710'
 Fd PK N in E/TC Grand Ave S of Rte 10
 Northing : 1848418.660
 Easting : 6600354.940
 NAVD 88



PLAN

1" = 40'

Note: No ground water encountered during drilling of A-09-007.



PROFILE

Horiz: 1" = 20'
 Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20		BRIDGE NO. 53-1528 POST MILE 38.51		GRAND AVE UC WIDENING LOG OF TEST BORINGS 1 OF 4	
FUNCTIONAL SUPERVISOR NAME: D. Jang	DRAWN BY: W. Tang 8/10, I.G-Remmen 12/13 CHECKED BY: M. Salisbury	FIELD INVESTIGATION BY: Y. Choi		UNIT: 3643 PROJECT NUMBER & PHASE: 0713000071-1		CONTRACT NO.: 07-1193U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	SHEET 25 OF 28
<small>065 CIVIL LOG OF TEST BORINGS SHEET ORIGINAL SCALE IN INCHES FOR REDUCED PLANS</small>											

USERNAME => s125624 DATE PLOTTED => 16-MAY-2015 TIME PLOTTED => 14:06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	10	37.2/42.4	1618	2313
			1-13-14		
			REGISTERED CIVIL ENGINEER		
			6-1-15		
			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.					

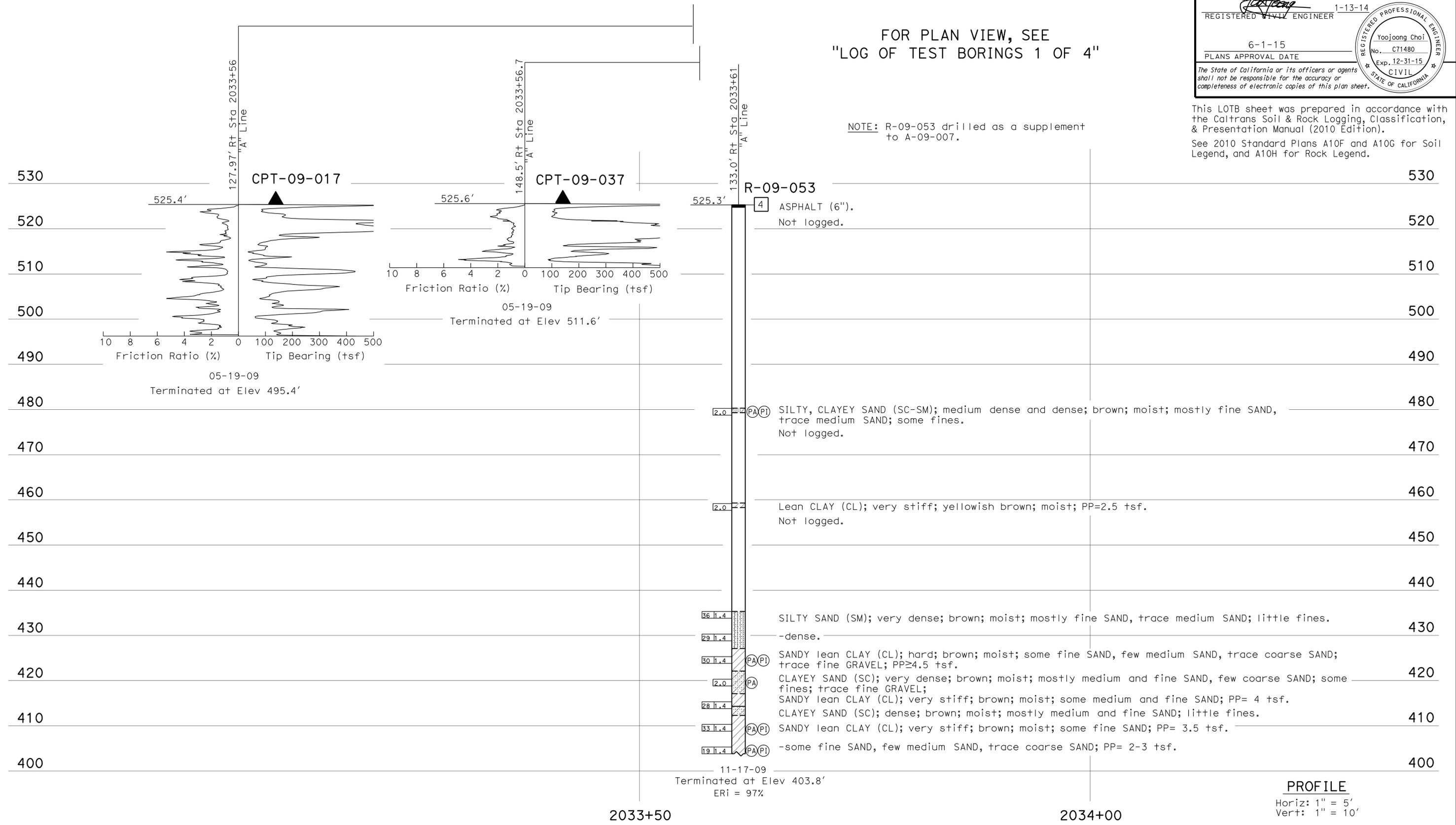


FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 4"

NOTE: R-09-053 drilled as a supplement to A-09-007.

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).

See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.



PROFILE
Horiz: 1" = 5'
Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20		BRIDGE NO. 53-1528 POST MILE 38.51		GRAND AVE UC WIDENING LOG OF TEST BORINGS 2 OF 4	
FUNCTIONAL SUPERVISOR NAME: D. Jang	DRAWN BY: W. Tang 08/10, I.G-Remmen CHECKED BY: M. Salisbury	FIELD INVESTIGATION BY: Y. Choi		UNIT: 3643 PROJECT NUMBER & PHASE: 071300007-1 CONTRACT NO.: 07-1193U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET 26	OF 28

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

FILE => 53-1528-Z-1+D02.dgn

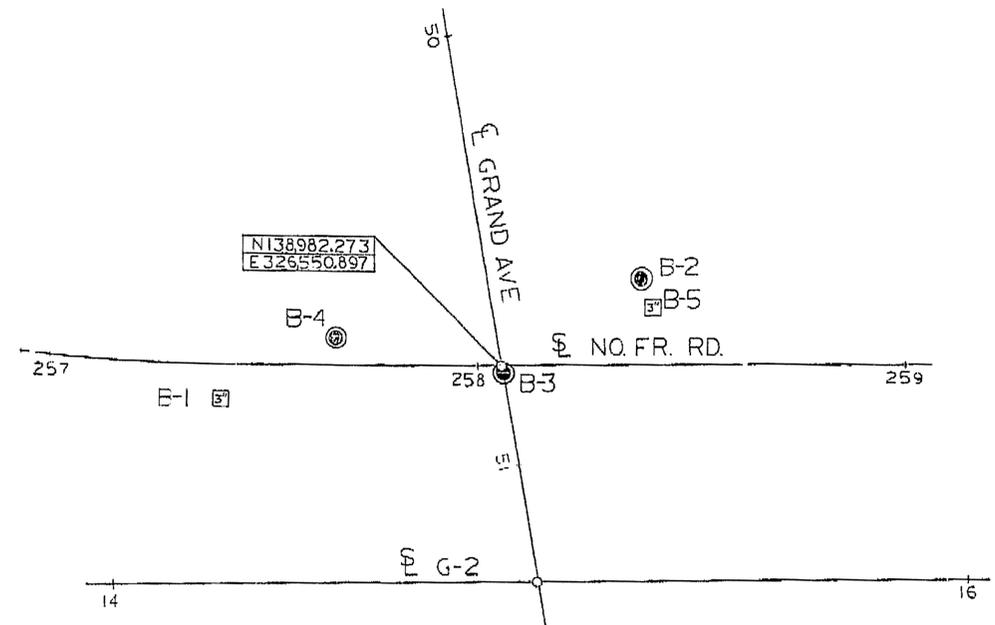
USERNAME => s125624 DATE PLOTTED => 18-MAY-2015 TIME PLOTTED => 14:06

DIST.	COUNTY	ROUTE	POST MILES-TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10	33.2/40.9	609	749

DESIGN SECTION SUPERVISOR: *RE Hanley*
 REGISTERED CIVIL ENGINEER NO. 9188
 DATE APPROVED: November 29, 1971

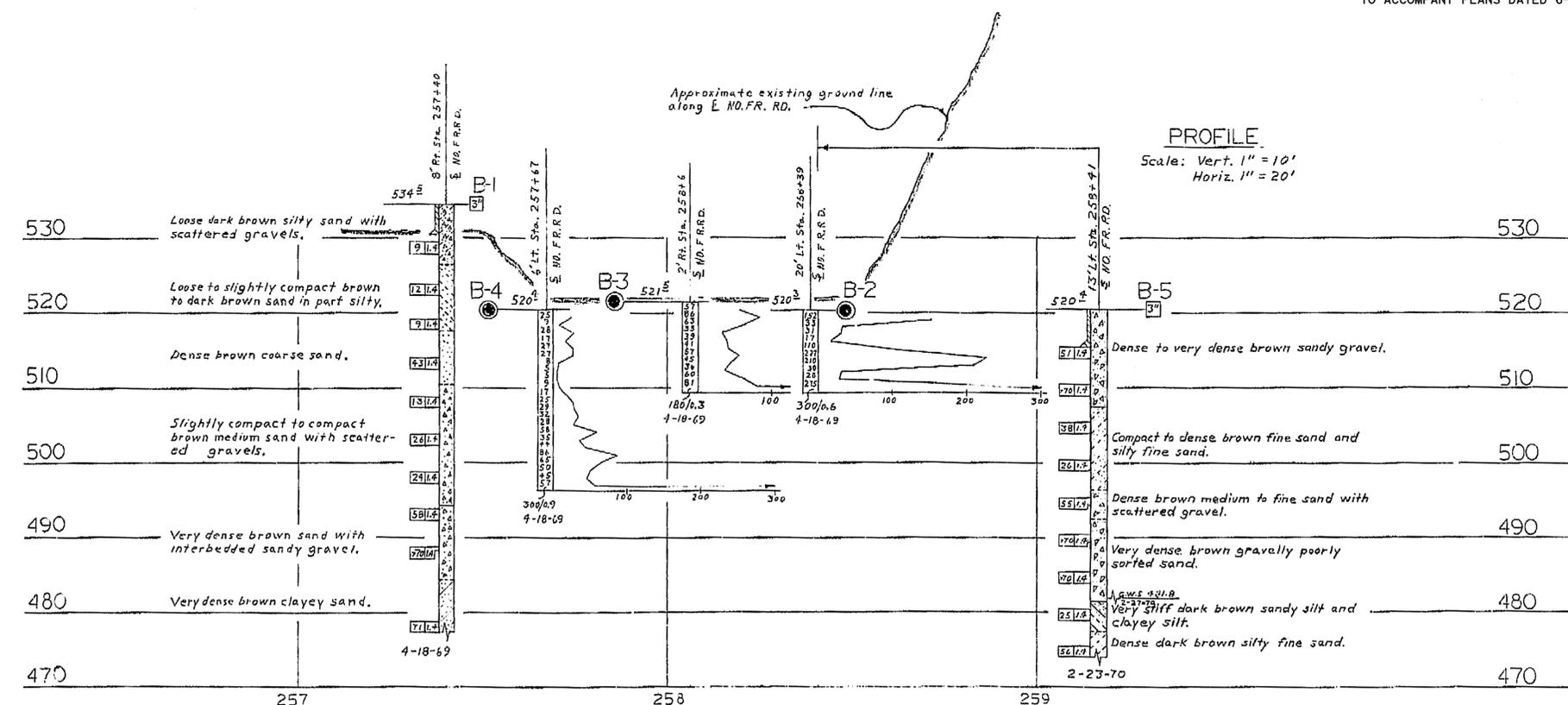
BENCH MARKS

B.M. #215-J-67 Elev. 516.89'
 Found L.S. tag on east curb of median of Grand Ave., 500 feet north of E. of Route 010.



PLAN
 Scale: 1" = 20'

DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES					
As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. It does not attest to the accuracy or validity of the information contained in the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.					
DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	Total Sheets
07	LA	10	37.2/42.4	1619	2313
			DATE: 1/13/2014		
GRAND AVE UC WIDENING					
LOG OF TEST BORINGS 3 OF 4					
PROJ. No. & PHASE: 3643 0713000071		CONTRACT No. 07-1193U1		BRIDGE No. 53-1528	
AS-BUILT VERT DATUM: N/A		CONVERSION: N/A		Sheet of	
NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA					



PROFILE
 Scale: Vert. 1" = 10'
 Horiz. 1" = 20'

LEGEND

SOIL BORING
 2 1/2" CORE PENETROMETER
 SAMPLER BORING (SB)
 ROTARY BORING (RB)
 AUGER BORING (AB)
 JET BORING
 CORE BORING
 TEST PIT

1" SOIL TUBE
 SOIL TUBE BORING

PENETRATION BORING
 PENETRATION BORING

LEGEND OF EARTH MATERIALS

GRAVEL	SILTY CLAY OR CLAYEY SILT
SAND	PEAT AND/OR ORGANIC MATTER
SILT	FILL MATERIAL
CLAY	IGNEOUS ROCK
SANDY CLAY OR CLAYEY SAND	SEDIMENTARY ROCK
SANDY SILT OR SILTY SAND	METAMORPHIC ROCK

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

UNIFORMITY COEFFICIENT (UC) = W₆₀ / W₂₀

COEFFICIENT OF CURVATURE (Cc) = (W₆₀ - W₂₀) / (W₄₀ - W₂₀)

CLASSIFICATION CHART (USCS):

GROUP	DESCRIPTION
GW	Well-sorted, clean, coarse-grained soil
GM	Medium sand
GC	Coarse sand
SM	Medium sand
SC	Coarse sand
SW	Well-sorted, clean, fine-grained soil
WL	Low plasticity silt
ML	Medium plasticity silt
CL	Low plasticity clay
CH	High plasticity clay
OH	Organic clay
OT	Organic silt

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

AS BUILT PLANS
 Contract No. 07-038824
 Date Completed _____
 Document No. 70073-44

AS BUILT None
 CORRECTIONS BY Paul Vuconch
 CONTRACT NO. 07-038824
 DATE 8-6-75

STATE OF CALIFORNIA TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
GRAND AVENUE UNDERCROSSING (MODIFY)			
LOG OF TEST BORINGS			
BRIDGE NO. 53-1528	POST MILE 38.52	DRAWING NO.	SHEET 12 OF 12
WO 038824 CU 07213		DISCARD PRINTS BEARING EARLIER REVISION DATES	

BRIDGE DEPARTMENT ENGINEERING GEOLOGY SECTION

29

S-860(1)

REGISTERED CIVIL ENGINEER
 Yoojoong Choi
 No. C71480
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA
 DATE APPROVED: August 29, 1960

BENCH MARK

Spike in telephone pole #57052E,
 104' Rt. Sta. 215+32 & San Bernardino
 Frwy.; 23' Rt. Sta. 15+33 & So. Frontage
 Road.

ELEV. 548.37



DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES

As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. It does not attest to the accuracy or validity of the information contained in the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.

DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1620	2313

REGISTERED CIVIL ENGINEER
 DATE: 1/13/2014

GRAND AVE UC WIDENING

LOG OF TEST BORINGS 4 OF 4

UNIT: 3643	CONTRACT No. 07-1193U1	BRIDGE No. 53-1528
PROJ. No. & PHASE: 07130000071		
AS-BUILT VERT DATUM: N/A	CONVERSION: N/A	Sheet of

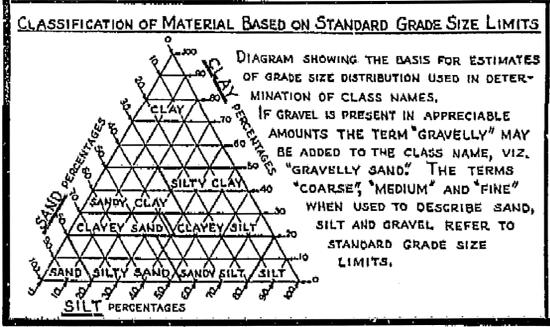
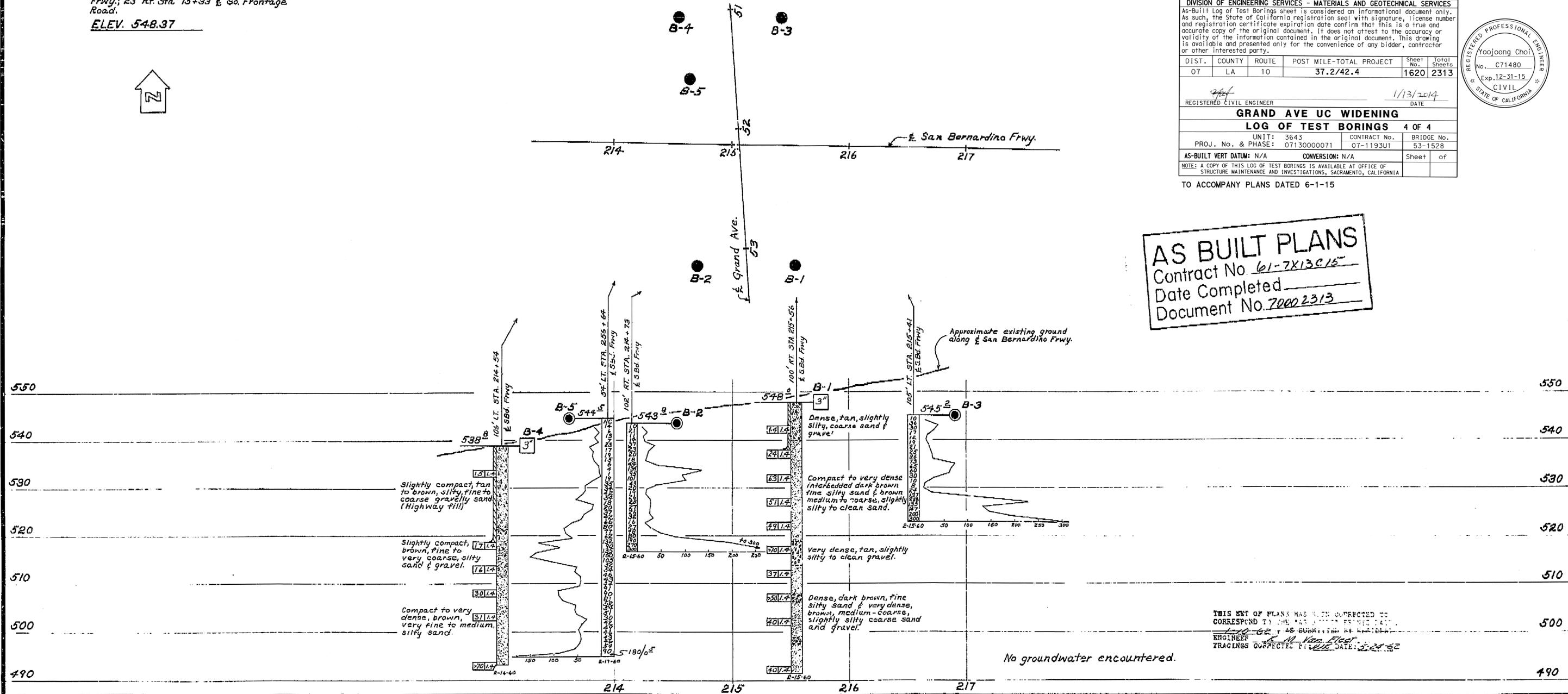
NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA

TO ACCOMPANY PLANS DATED 6-1-15



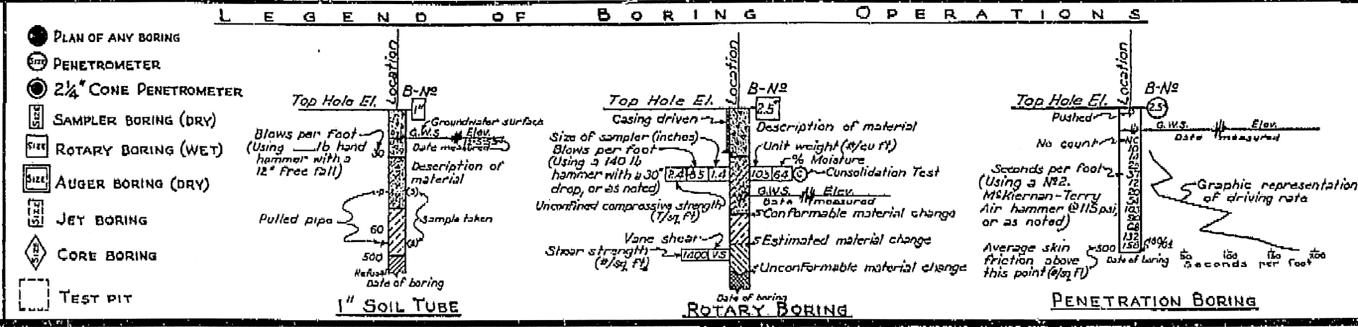
AS BUILT PLANS
 Contract No. 61-7X13C15
 Date Completed _____
 Document No. 70002313

BRIDGE DEPARTMENT



LEGEND OF EARTH MATERIALS

GRAVEL	SILTY CLAY OR CLAYEY SILT
SAND	PEAT AND/OR ORGANIC MATTER
SILT	FILL MATERIAL
CLAY	IGNEOUS ROCK
SANDY CLAY OR CLAYEY SAND	SEDIMENTARY ROCK
SANDY SILT OR SILTY SAND	METAMORPHIC ROCK



NOTES

The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the Special Provisions accompanying this set of plans. Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

GRAND AVENUE UNDERCROSSING

LOG OF TEST BORINGS

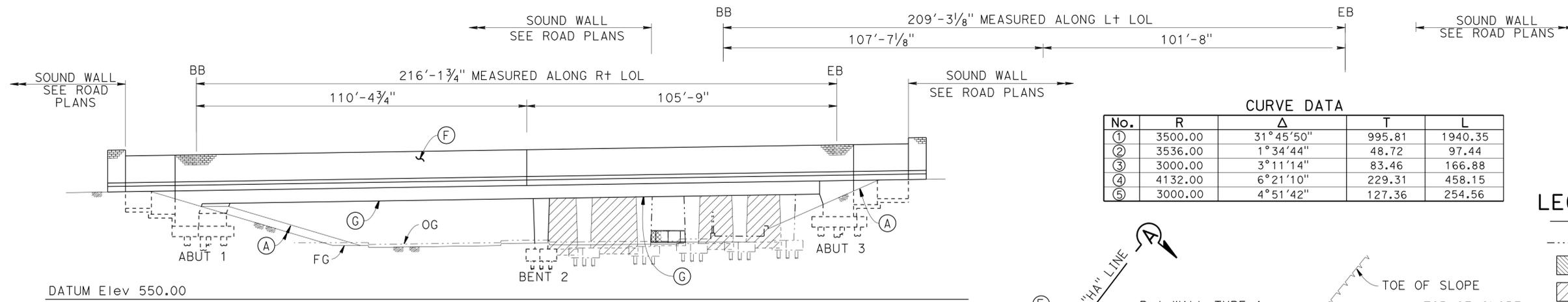
SCALE: Vert 1"=10', Horiz 1"=40'
 BRIDGE 53-1528 FILE E-53 DRAWING C-6668-16

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1621	2313

Dawit Tadelle Geza 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 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.

No.	R	Δ	T	L
①	3500.00	31°45'50"	995.81	1940.35
②	3536.00	1°34'44"	48.72	97.44
③	3000.00	3°11'14"	83.46	166.88
④	4132.00	6°21'10"	229.31	458.15
⑤	3000.00	4°51'42"	127.36	254.56



DATUM Elev 550.00

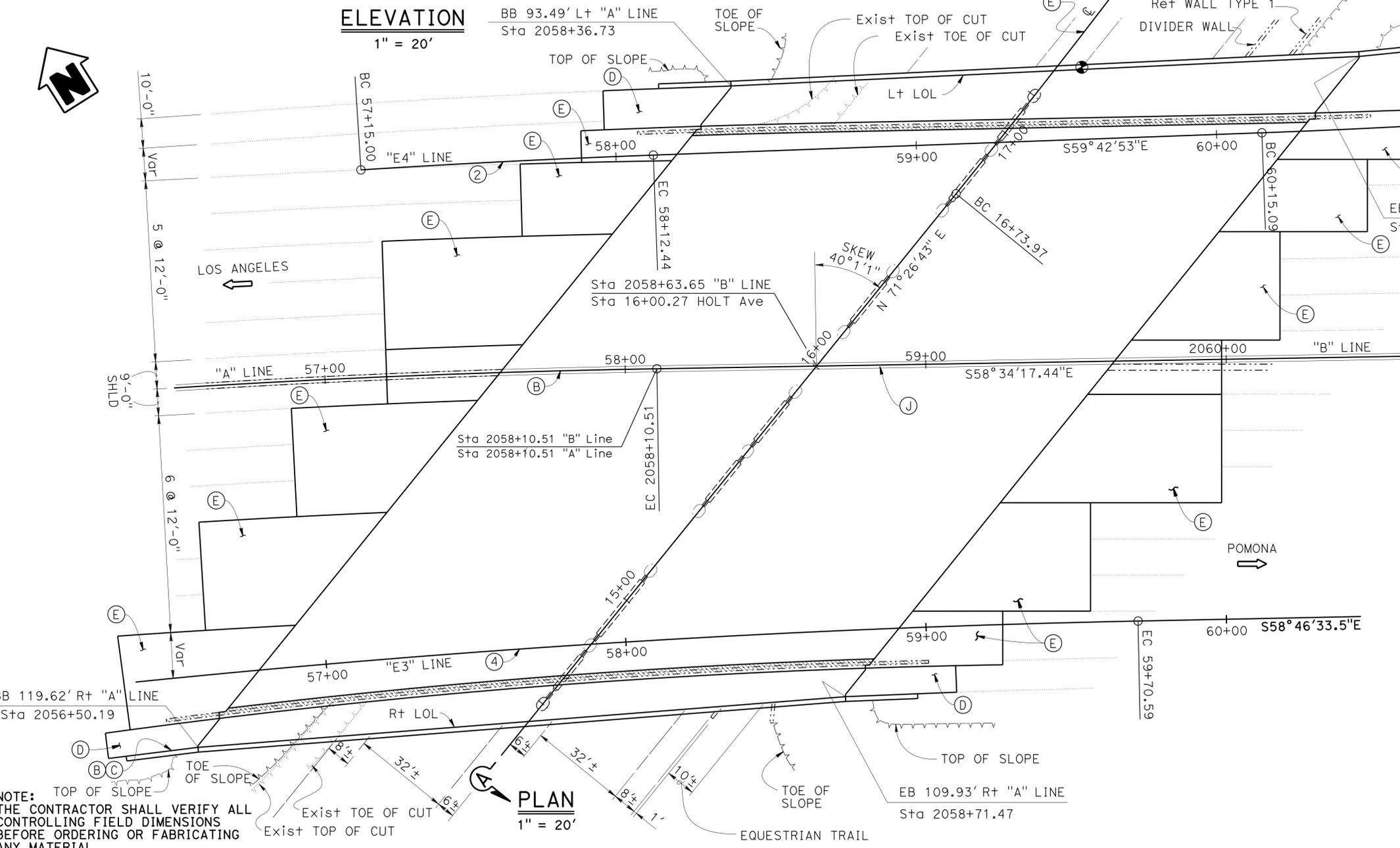
ELEVATION
1" = 20'

- LEGEND:**
- Indicate: New Structure
 - - - - - Indicate: Existing Structure
 - [Hatched Box] Bridge Removal (Portion)
 - [Diagonal Hatched Box] Infill Wall
 - Point of Minimum Vertical Clearance (15'-0" Min Vert Clr)

- NOTES:**
- (A) Slope Paving
 - (B) Paint "Bridge No 53-0671"
 - (C) Paint "Holt Ave Undercrossing"
 - (D) Structure Approach Type N(30D)
 - (E) Structure Approach Type R(30D)
 - (F) SOUND WALL Masonry Block
 - (G) Soffit lighting, see "ROAD PLANS"
 - (H) For "SECTION A-A" see "SEISMIC RETROFIT DETAIL NO. 1" sheet.
 - (J) Concrete Barrier Type 60A (MOD)

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	2	CF
SALVAGE METAL BRIDGE RAILING	504	LF
REMOVE UNSOUND CONCRETE	2	CF
BRIDGE REMOVAL (PORTION), LOCATION C	LUMP	SUM
STRUCTURE EXCAVATION (BRIDGE)	721	CY
STRUCTURE BACKFILL (BRIDGE)	530	CY
2 1/2" SUPPLY LINE (BRIDGE)	292	LF
24" CAST-IN-DRILLED-HOLE CONCRETE PILING	1,975	LF
PRESTRESSING PRECAST GIRDER	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE FOOTING	202	CY
STRUCTURAL CONCRETE, BRIDGE	548	CY
AGGREGATE BASE (APPROACH SLAB)	63	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	73	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	627	CY
PAVING NOTCH EXTENSION	367	CF
CONCRETE SURFACE TEXTURE	5,533	SQFT
DRILL AND BOND DOWEL	588	LF
FURNISH PRECAST PRESTRESSED CONCRETE BOX GIRDER (TYPE B-36) (90'-100')	2	EA
FURNISH PRECAST PRESTRESSED CONCRETE BOX GIRDER (TYPE B-54) (90'-100')	4	EA
FURNISH PRECAST PRESTRESSED CONCRETE BOX GIRDER (TYPE B-36) (100'-110')	2	EA
ERECT PRECAST PRESTRESSED CONCRETE BOX GIRDER	8	EA
JOINT SEAL (MR 1 1/2")	567	LF
BAR REINFORCING STEEL (BRIDGE)	238,350	LB
HEADED BAR REINFORCEMENT	156	EA
SOUND WALL (MASONRY BLOCK)	4,707	SQFT
PREPARE AND STAIN CONCRETE	5,629	SQFT
SLOPE PAVING (CONCRETE) (MODIFIED)	102	CY
MISCELLANEOUS METAL (BRIDGE)	129	LB
CHAIN LINK RAILING (TYPE 7 MODIFIED)	61	LF
CONCRETE BARRIER (TYPE 60A MODIFIED)	277	LF
CONCRETE BARRIER (TYPE 736 MODIFIED)	427	LF
CONCRETE BARRIER (TYPE 736S MODIFIED)	96	LF



PLAN
1" = 20'

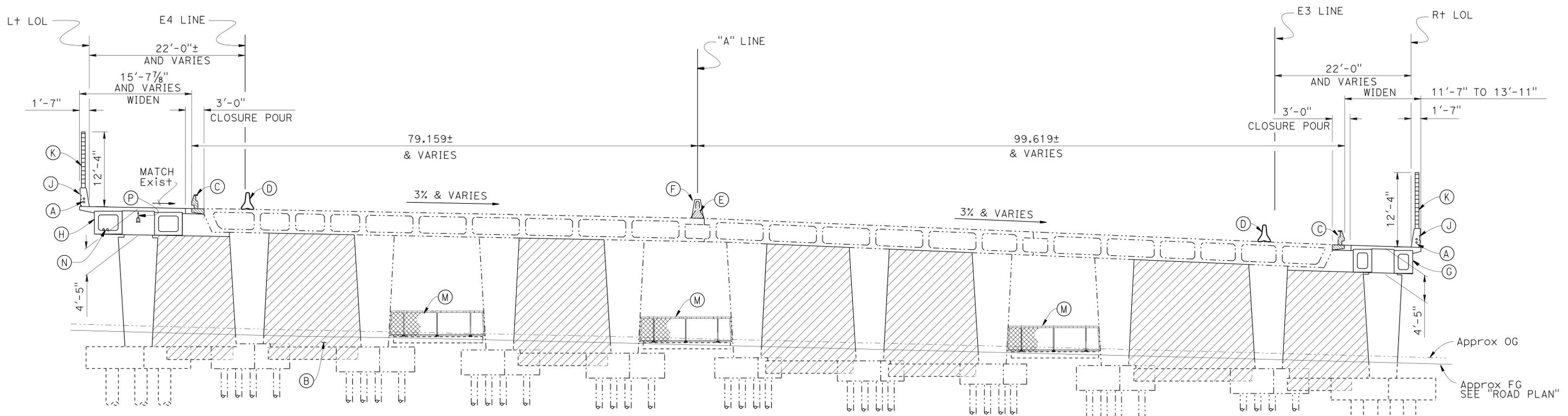
NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

HOWARD NG DESIGN ENGINEER	DESIGN	BY Sharareh Bikae	CHECKED Jason Fang	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	53-0671	HOLT AVENUE UNDERCROSSING (WIDEN) GENERAL PLAN NO. 1
	DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang	LAYOUT	BY Sharareh Bikae		POST MILE	38.97	
	QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu	SPECIFICATIONS	BY Xiaodong Chen		PLANS AND SPECS COMPARED	Xiaodong Chen	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 UNIT: 3622
 PROJECT NUMBER & PHASE: 0713000007-4
 CONTRACT NO.: 07-1193U1
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 3/18/14, 3/17/14, 5/28/14, 09/09/14
 SHEET 01 OF 42

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1622	2313

Dawit Tadelle Esq. 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA
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TYPICAL SECTION
1/8" = 1'-0"

- NOTES**
- (A) 2-2" Sprinkler Control Conduit, see "ROAD PLANS"
 - (B) Infill shear wall
 - (C) Bridge Removal portion and Salvage Metal Bridge Railing
 - (D) Temporary Railing Type K, see "Road Plans"
 - (E) Remove Concrete Barrier Type 50
 - (F) Concrete Barrier Type 60A (Mod)
 - (G) Precast Prestressed concrete box girder 36x44 with longitudinal post tension
 - (H) Precast Prestressed concrete box girder 54x44 with longitudinal post tension
 - (J) Concrete Barrier Type 736 (Mod 1)
 - (K) Masonry Block Soundwall
 - (M) Chain Link Railing Type 7 (Mod)
 - (N) 2-3/2" ∅ Communication Conduite, see "ROAD PLANS"
 - (P) 1-NPS 2 1/2" GSP water supply line (B14-5)

LEGEND

—————	New Structure
-----	Existing Structure
▨	Bridge removal (portion)
▩	Infill shear wall

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

HOWARD NG DESIGN ENGINEER	DESIGN	BY Sharareh Bikae	CHECKED Jason Fang	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	HOLT AVENUE UNDERCROSSING (WIDEN) GENERAL PLAN NO. 2
	DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang	LAYOUT	BY Sharareh Bikae			CHECKED Jason Fang	
	QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu	SPECIFICATIONS	BY Xiaodong Chen	CHECKED Xiaodong Chen	38.97		

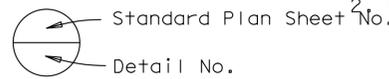
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3622 PROJECT NUMBER & PHASE: 071300007-1 CONTRACT NO.: 07-1193U1
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 2-28-14, 5-21-14, 7-25-14
 SHEET 02 OF 42

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	INDEX TO PLANS
4	CONSTRUCTION SEQUENCE
5	FOUNDATION PLAN
6	ABUTMENT 1 LAYOUT
7	ABUTMENT 3 LAYOUT
8	ABUTMENT DETAILS NO.1
9	ABUTMENT DETAILS NO.2
10	RETAINING WALL LAYOUT (LEFT WIDEN)
11	RETAINING WALL LAYOUT (RIGHT WIDEN)
12	RETAINING WALL DETAILS
13	BENT LAYOUT (LEFT WIDEN)
14	BENT LAYOUT (RIGHT WIDEN)
15	BENT 2 DETAILS NO. 1
16	BENT 2 DETAILS NO. 2
17	TYPICAL SECTION
18	GIRDER LAYOUT
19	PRECAST GIRDER DETAILS NO.1
20	PRECAST GIRDER DETAILS NO.2
21	PRECAST GIRDER DETAILS NO.3
22	GIRDER REINFORCEMENT
23	SLOPE PAVING-FULL SLOPE
24	SLOPE PAVING
25	STRUCTURE APPROACH DRAINAGE DETAILS
26	STRUCTURE APPROACH TYPE N(30D)
27	STRUCTURE APPROACH TYPE R(30D)
28	CONCRETE BARRIER TYPE 60A & 60SA MODIFIED
29	SOUNDWALL-MASONRY BLOCK ON BRIDGE
30	SOUNDWALL-MASONRY BLOCK WITH BARRIER ON RETAINING WALL DETAILS NO. 1
31	SOUNDWALL-MASONRY BLOCK WITH BARRIER ON RETAINING WALL DETAILS NO. 2
32	RETAINING WALL TYPE 1SWB-DETAILS NO. 1
33	RETAINING WALL TYPE 1SWB-DETAILS NO. 2
34	SEISMIC RETROFIT DETAILS NO. 1
35	SEISMIC RETROFIT DETAILS NO. 2
36	ARCHITECTURAL TREATMENT DETAILS NO. 1
37	ARCHITECTURAL TREATMENT DETAILS NO. 2
38	ARCHITECTURAL TREATMENT DETAILS NO. 3
39	LOG OF TEST BORINGS 1 OF 4
40	LOG OF TEST BORINGS 2 OF 4
41	LOG OF TEST BORINGS 3 OF 4
42	LOG OF TEST BORINGS 4 OF 4

STANDARD PLANS Dated 2010

RSP A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A10F	LEGEND- SOIL (SHEET 1 OF 2)
A10G	LEGEND- SOIL (SHEET 2 OF 2)
A10H	LEGEND-ROCK
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE SURCHARGE AND WALL
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
A76A	CONCRETE BARRIER TYPE 60
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-3	16" AND 24" CAST-IN-DRILLED-HOLE CONCRETE PILE
B3-5	RETAINING WALL DETAILS NO.1
B6-10	UTILITY OPENINGS T-BEAM
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
RSP B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
RSP B11-56	CONCRETE BARRIER TYPE 736
B14-3	COMMUNICATION AND SPRINKLER CONDUITS (CONDUIT LESS THAN 4")
B14-4	WATER SUPPLY LINE (BRIDGE) (PIPE SIZE LESS THAN 4")
B14-5	WATER SUPPLY LINE (DETAILS) (PIPE SIZE LESS THAN 4")



GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD BRIDGE SPECIFICATIONS, 4th Edition with California Amendments Preface dated Nov 2011;

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 1.6 Nov 2010

DEAD LOADING: Include 35 psf for future wearing surface
The deck load between the girders has been increased by factor of 10% to allow for the use of steel deck forms.

LIVE LOADING: HL-93 and Permit Design Load

SEISMIC LOADING: Soil Profile: Shear wave Velocity of top 100 ft of soil
 $V_s = 240$ m/s
Moment magnitude $M_{max} = 7.7$
Peak Ground Acceleration = 0.6g

REINFORCED CONCRETE: $f_y = 60$ Ksi
 $f'_c = 3.6$ ksi (Except as shown on "CONCRETE STRENGTH AND TYPE LIMITS"),
 $n = 8$

PRESTRESSED CONCRETE: See PRESTRESSING NOTES on "PRECAST GIRDER DETAILS NO. 3" sheet

SOUNDWALL: For soundwall weight, see "SOUNDWALL-MASONRY BLOCK ON BRIDGE" sheet, distributed as shown below

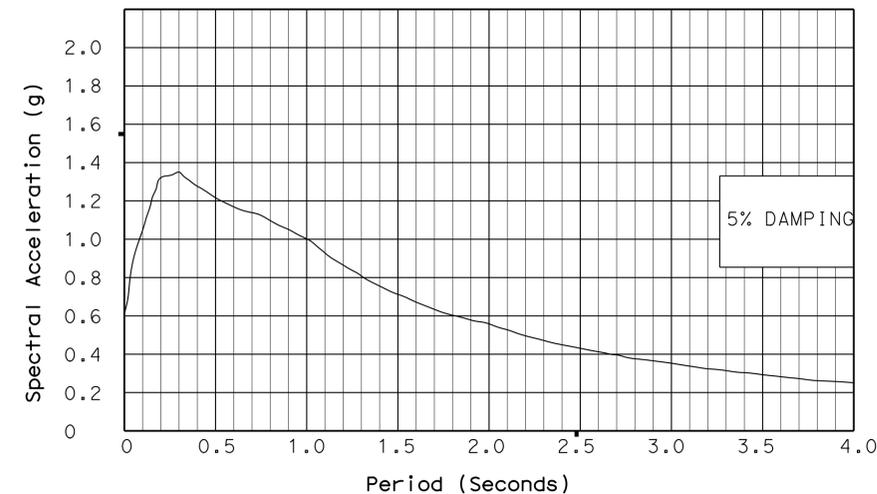
Girder	Right Exterior	Interior	Girder	Left Exterior	Interior
Shear	100%	100%	Shear	100%	100%
Moment	100%	100%	Moment	100%	100%

PILE DATA TABLE

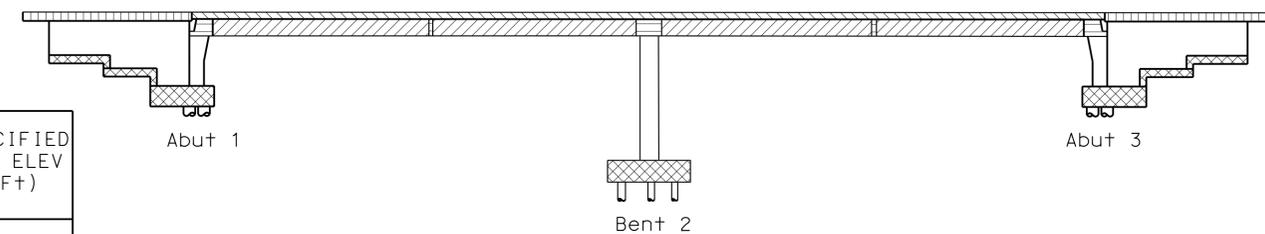
LOCATION	PILE TYPE	NOMINAL RESISTANCE (kips)		DESIGN TIP ELEV (Ft)	SPECIFIED TIP ELEV (Ft)
		COMPRESSION	TENSION		
Abut 1 LEFT WIDEN	24 in CIDH	340	0	533 (a)	533
				550 (c)	
				552 (d)	
Abut 1 RIGHT WIDEN	24 in CIDH	310	0	527 (a)	527
				549 (c)	
				546 (d)	
Bent 2 LEFT WIDEN	24 in CIDH	380	80	522 (a)	522
				545 (b)	
				544 (c)	
Bent 2 RIGHT WIDEN	24 in CIDH	390	110	506 (a)	506
				536 (b)	
				534 (c)	
Abut 3 LEFT WIDEN	24 in CIDH	380	0	532 (a)	532
				548 (c)	
				552 (d)	
Abut 3 RIGHT WIDEN	24 in CIDH	310	0	528 (a)	528
				550 (c)	
				546 (d)	

1. Design Tip Elevation are controlled by:
(a) Compression, (b) Tension, (c) Settlement, (d) Lateral Load

2. CIDH Piles specified tip elevation shall not be raised.



MODIFIED ARS CURVE
No Scale



LEGEND

- Structural Concrete, Bridge ($f'_c = 4$ ksi @ 28 days)
- Precast Prestressed Concrete Box Girder, see "GIRDER LAYOUT" sheet ($f'_c = 6$ ksi @ 28 days)
- Structural Concrete, Bridge ($f'_c = 5$ ksi @ 28 days)
- Structural Concrete, Bridge Footing ($f'_c = 4$ ksi @ 28 days)
- Structural Concrete, Approach Slab
- Structural Concrete, Bridge ($f'_c = 6$ ksi @ 28 days)

CONCRETE STRENGTH AND TYPE LIMITS

No Scale

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

DESIGN	BY Sharareh Bikae	CHECKED Jason Fang
DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang
QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.
53-0671
POST MILE
38.97

HOLT AVENUE UNDERCROSSING (WIDEN)

INDEX TO PLANS

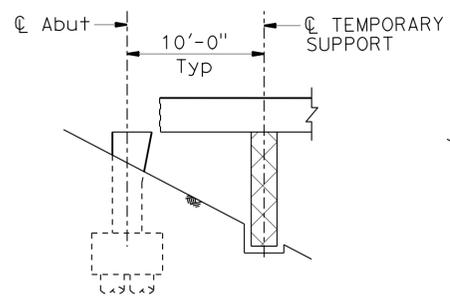
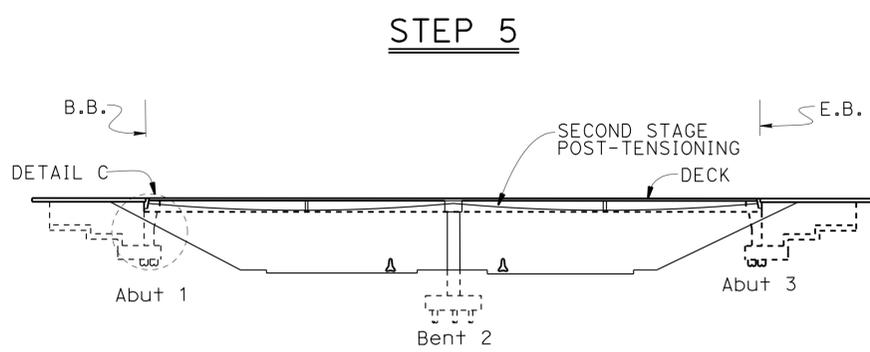
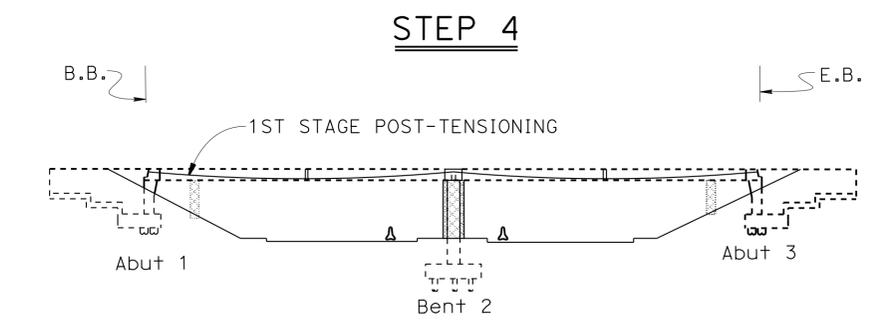
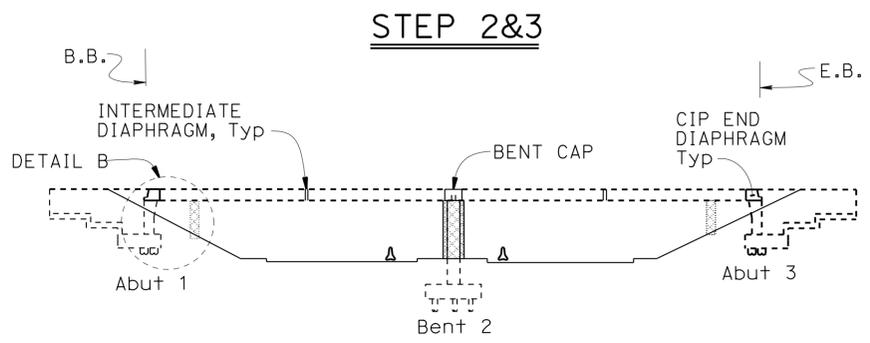
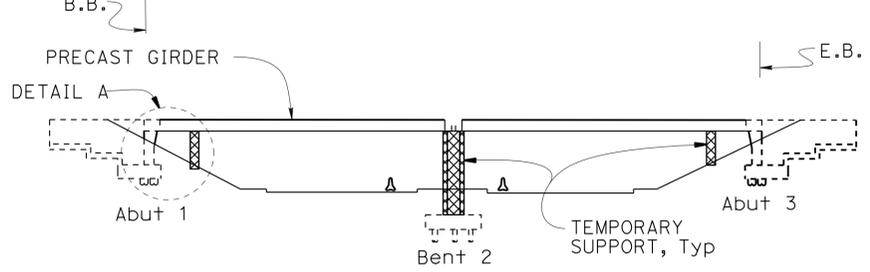
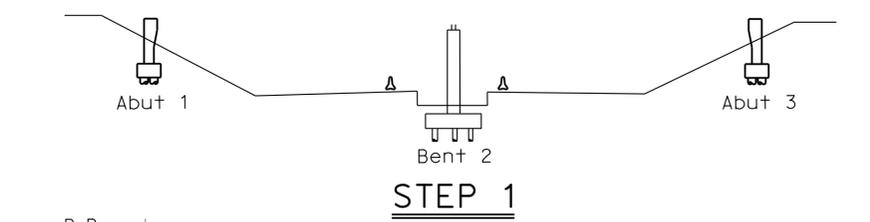
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07	LA	10	37.2/42.4	1624	2313

Davit Tadelle Esq 10/01/14
REGISTERED CIVIL ENGINEER DATE

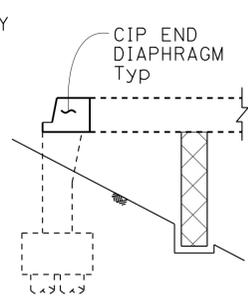
6-1-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Davit T Worku
No. C60711
Exp 12-31-14
CIVIL
STATE OF CALIFORNIA

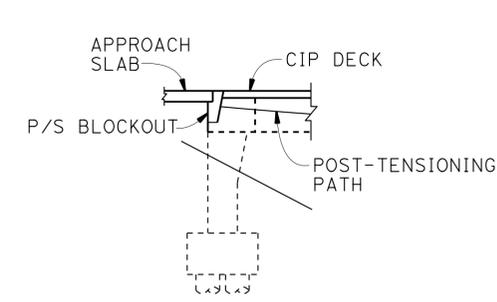
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DETAIL A
No Scale



DETAIL B
No Scale



DETAIL C
No Scale

BRIDGE CONSTRUCTION SEQUENCE

- Step 1. Construct abutment footings, stems, bent footing and column.
- Step 2. Erect temporary supports at abutments and bent. Temporary supports shall be capable of supporting a minimum girder and deck load reaction of 290 kips per girder end. This reaction does not include forces due to wind, impact, or construction loads.
- Step 3. Erect precast/prestressed girders on temporary supports.
- Step 4. Construct cast-in-place end diaphragms, bent cap, and intermediate diaphragms. Allow cast-in-place end diaphragms, bentcap and intermediate diaphragms to reach min strength of 6 ksi.
- Step 5. First stage, longitudinal prestressing (750 kips per box girder).
- Step 6. Place deck concrete.
- Step 7. Second stage, longitudinal prestressing (830 kips per box girder). Longitudinal prestressing must not be permitted less than 10 days after deck concrete has been placed and the concrete compressive strength at time of stressing has reached the specified $f_{ci} = 4$ ksi
- Step 8. Construct abutment closure pour. Remove temporary supports. Complete abutment construction and approach slab.
- Step 9. Install barrier, soundwall, and temporary railing Type K per "ROAD PLANS".
- Step 10. Construct closure pour. Closure pour must not be placed sooner than 14 days after completion of longitudinal prestressing (post-tensioning).

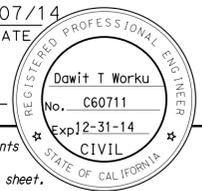
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Sharareh Bikae	CHECKED Jason Fang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	53-0671	HOLT AVENUE UNDERCROSSING (WIDEN) CONSTRUCTION SEQUENCE
	DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang			POST MILE	38.97	
	QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					UNIT: 3622	PROJECT NUMBER & PHASE: 0713000007-1		CONTRACT NO.: 07-1193U1
					DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	SHEET 04 OF 42

TIME PLOTTED => 14:07
DATE PLOTTED => 18-MAY-2015
USERNAME => s125624

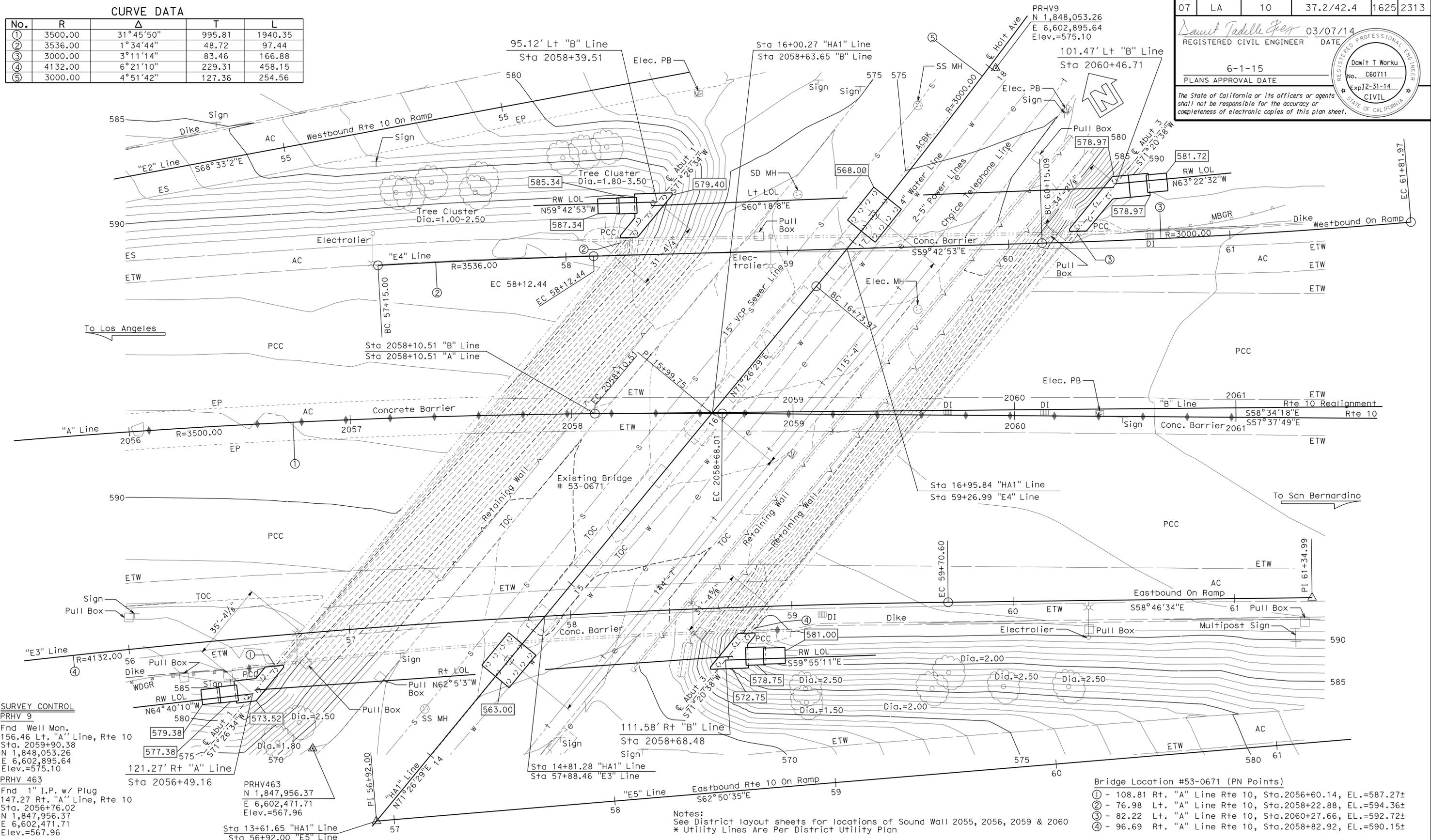
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07	LA	10	37.2/42.4	1625	2313

Dawit Tadelle Gess 03/07/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
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CURVE DATA

No.	R	Δ	T	L
①	3500.00	31°45'50"	995.81	1940.35
②	3536.00	1°34'44"	48.72	97.44
③	3000.00	3°11'14"	83.46	166.88
④	4132.00	6°21'10"	229.31	458.15
⑤	3000.00	4°51'42"	127.36	254.56



SURVEY CONTROL
 PRHV 9
 Fnd Well Mon.
 156.46 Lt. "A" Line, Rte 10
 Sta. 2059+90.38
 N 1,848,053.26
 E 6,602,895.64
 Elev.=575.10
 PRHV 463
 Fnd 1" I.P. w/ Plug
 147.27 Rt. "A" Line, Rte 10
 Sta. 2056+76.02
 N 1,847,956.37
 E 6,602,471.71
 Elev.=567.96

PRHV463
 N 1,847,956.37
 E 6,602,471.71
 Elev.=567.96

- Bridge Location #53-0671 (PN Points)
- ① - 108.81 Rt. "A" Line Rte 10, Sta.2056+60.14, EL.=587.27±
 - ② - 76.98 Lt. "A" Line Rte 10, Sta.2058+22.88, EL.=594.36±
 - ③ - 82.22 Lt. "A" Line Rte 10, Sta.2060+27.66, EL.=592.72±
 - ④ - 96.69 Rt. "A" Line Rte 10, Sta.2058+82.92, EL.=590.15±

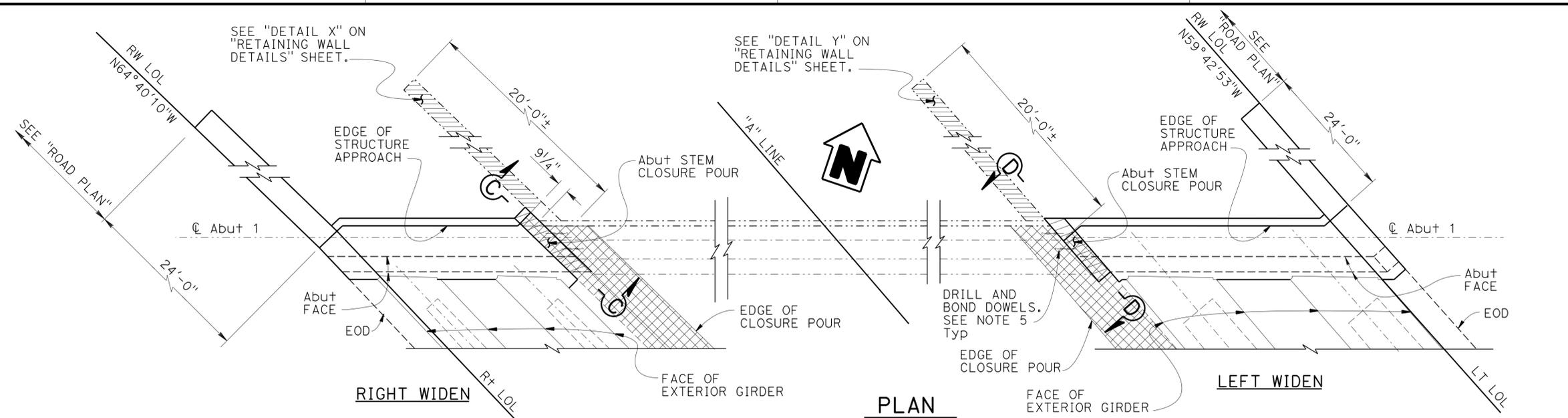
Notes:
 See District layout sheets for locations of Sound Wall 2055, 2056, 2059 & 2060
 * Utility Lines Are Per District Utility Plan

PRELIMINARY INVESTIGATION SECTION				DESIGN BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-0671	HOLT AVENUE UC FOUNDATION PLAN		
SCALE VERT.DATUM NAVD88	PHOTOGAMMETRY AS OF: X	DETAILS BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku	POST MILE 38.97							
1"=20' HORZ.DATUM NAD83 (1991.35)	SURVEYED BY District	QUANTITIES BY Sharareh Bikae	CHECKED Edward B. Mu								
ALIGNMENT TIES Dist. Traverse Sheet		DRAFTED BY J.Martinez 11/2009	CHECKED BY C.Fassett 11/2009	CHECKED BY C.Fassett 11/2009	CHECKED BY C.Fassett 11/2009	UNIT: 3646	PROJECT NUMBER & PHASE: 0713000007 1	CONTRACT NO.: 1193U	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES: 05/26/13, 05/26/11, 06/17/13	SHEET 5 OF 42

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

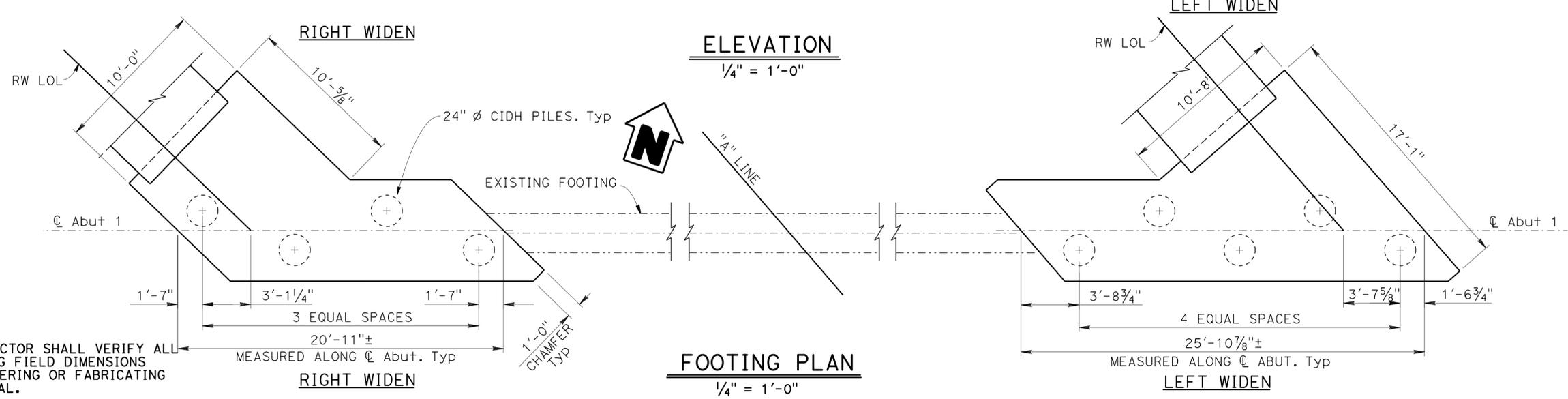
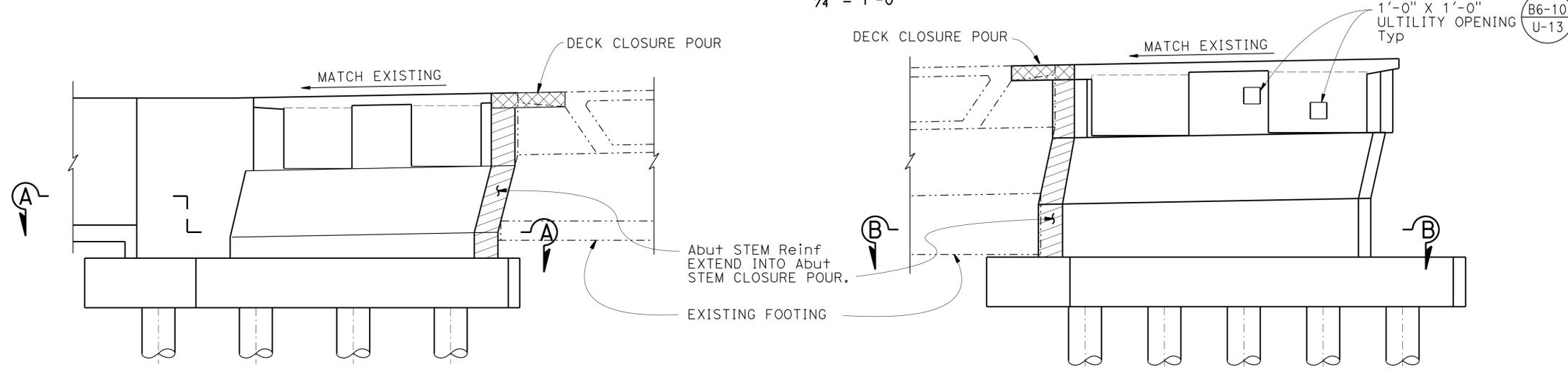
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1626	2313
Dawit Tadelle Esq. 10/01/14 REGISTERED CIVIL ENGINEER DATE			Dawit T Worku No. C60711 Exp 12-31-14 CIVIL STATE OF CALIFORNIA		
6-1-15 PLANS APPROVAL DATE					
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- LEGEND:**
- Bridge removal (portion)
 - Closure pour
 - Abutment closure pour
 - Indicates New Structure
 - Indicates Existing Structure

- NOTES:**
1. For section "A-A", "B-B", "C-C", "D-D", see "ABUTMENT DETAILS NO. 2" sheet.
 2. For retaining wall details, see "RETAINING WALL LAYOUT" sheets.
 3. For concrete removal details, see "RETAINING WALL DETAILS" sheet.
 4. For "FOOTING CORNER DETAIL", see "ABUTMENT DETAILS NO. 2" sheet.
 5. For drill and bond details, see "ABUTMENT DETAILS NO. 2" sheet.



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

DESIGN	BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	53-0671	HOLT AVENUE UNDERCROSSING (WIDEN) ABUTMENT 1 LAYOUT	
DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku		POST MILE	38.97		
QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu		BRIDGE NO.	53-0671		
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3622 PROJECT NUMBER & PHASE: 071300007-1 CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 5-15-13 10-28-13 7-25-14 5-28-14	SHEET 06 OF 42

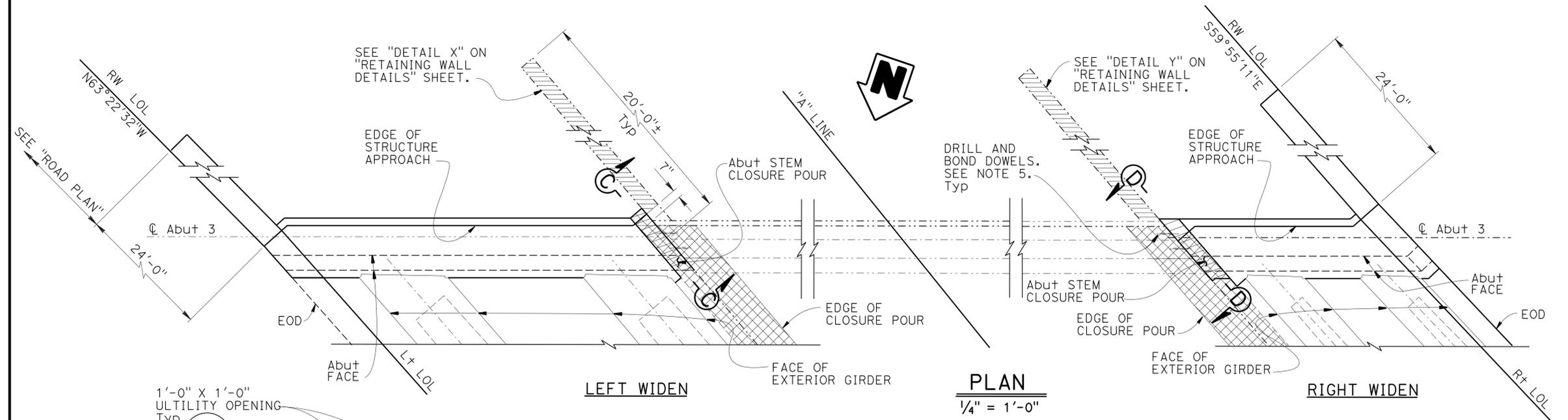
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07	LA	10	37.2/42.4	1627	2313

Dawit Tadelle Tessema 10/01/14
 REGISTERED CIVIL ENGINEER DATE

6-1-15
 PLANS APPROVAL DATE

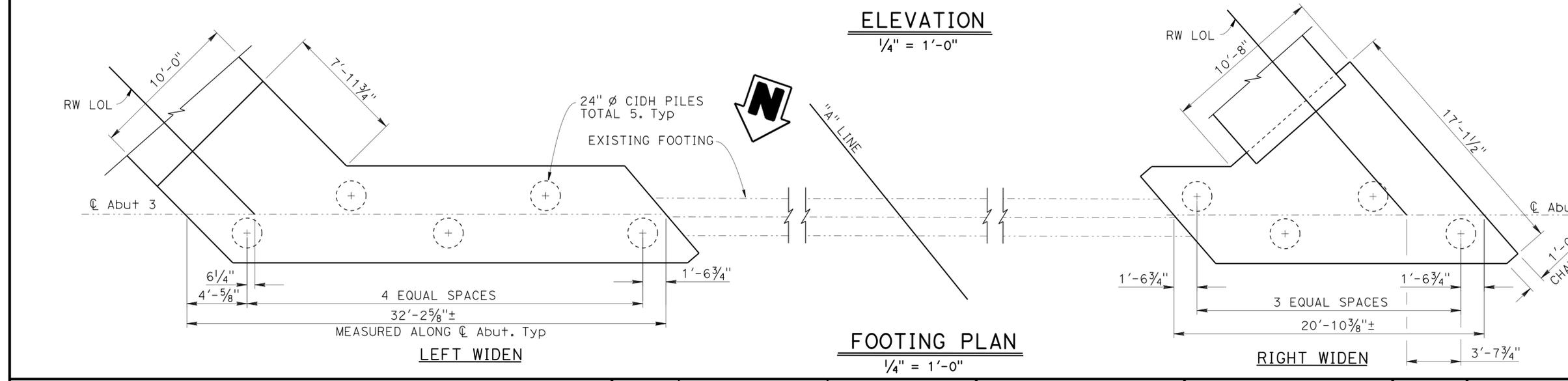
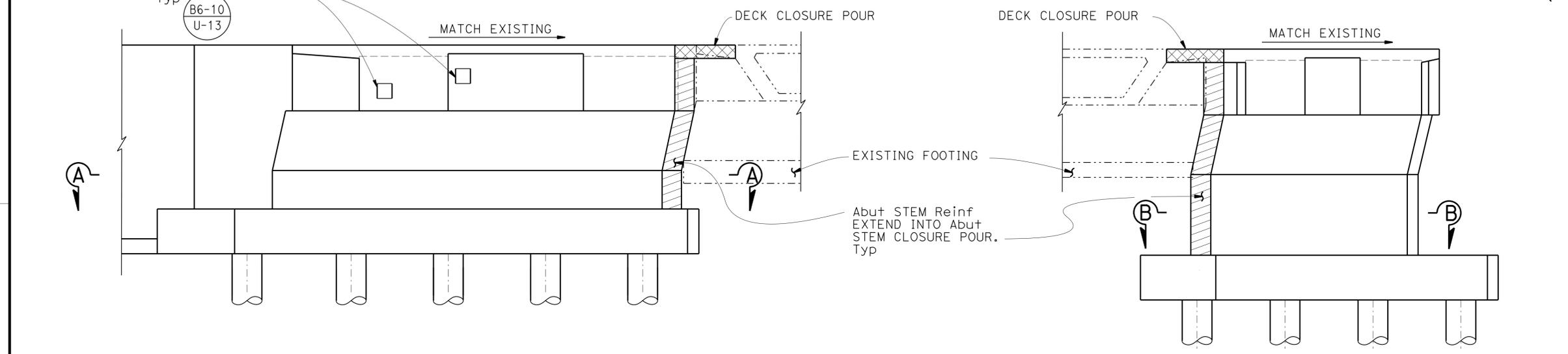
Dawit T Worku
 No. C60711
 Exp 12-31-14
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- LEGEND:**
- Bridge removal (portion)
 - Closure pour
 - Abutment closure pour
 - Indicates New Structure
 - Indicates Existing Structure

- NOTES:**
- For section "A-A", "B-B", "C-C", "D-D", see "ABUTMENT DETAILS NO. 2" sheet.
 - For retaining wall details, see "RETAINING WALL LAYOUT" sheets.
 - For concrete removal details, see "RETAINING WALL DETAILS" sheet.
 - For "FOOTING CORNER DETAIL", see "ABUTMENT DETAILS NO. 2" sheet.
 - For drill and bond details, see "ABUTMENT DETAILS NO. 2" sheet.

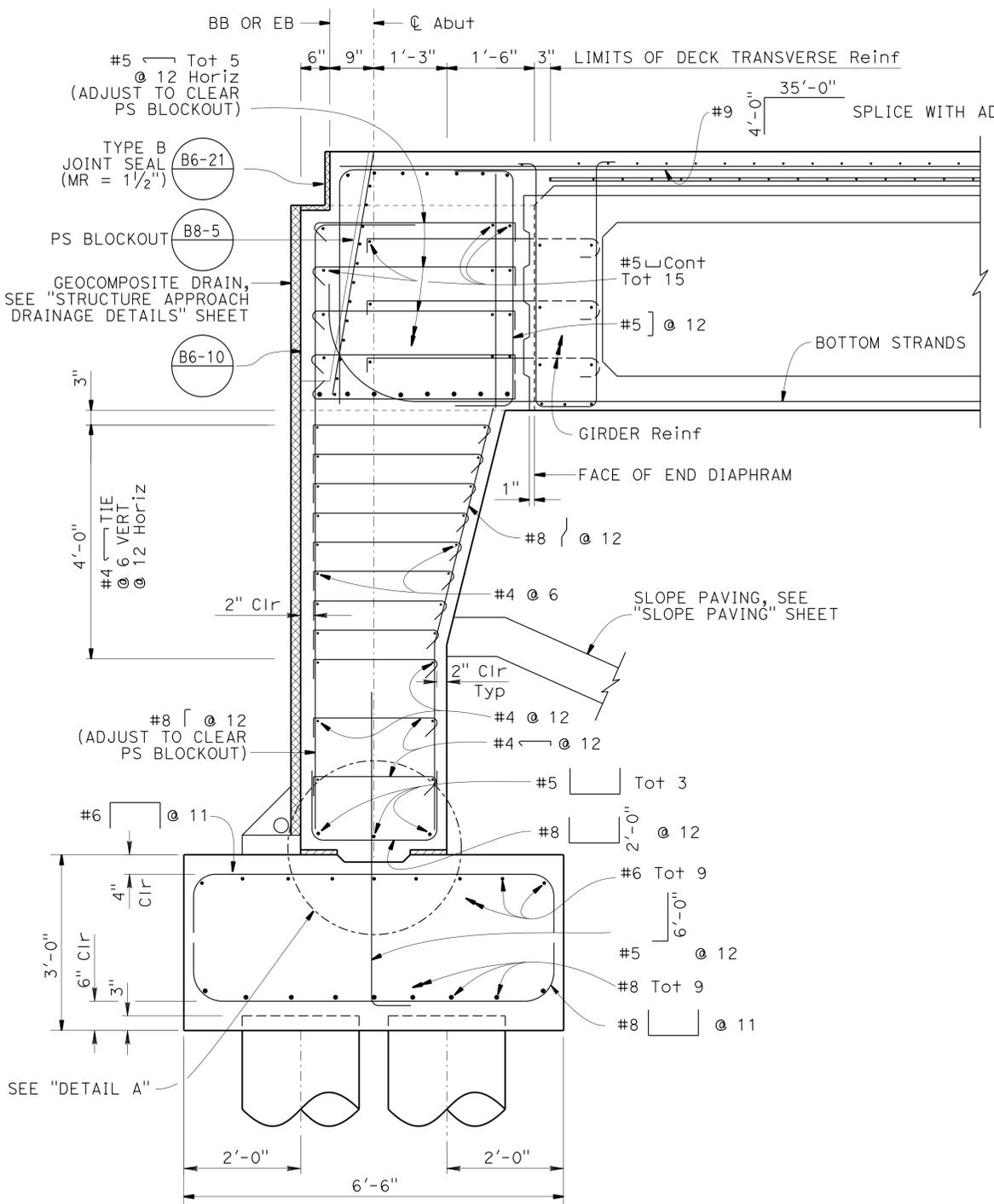


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DESIGN BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 53-0671	HOLT AVENUE UNDERCROSSING (WIDEN) ABUTMENT 3 LAYOUT
DETAILS BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku		POST MILE 38.97	
QUANTITIES BY Sharareh Bikae	CHECKED Edward B. Mu			

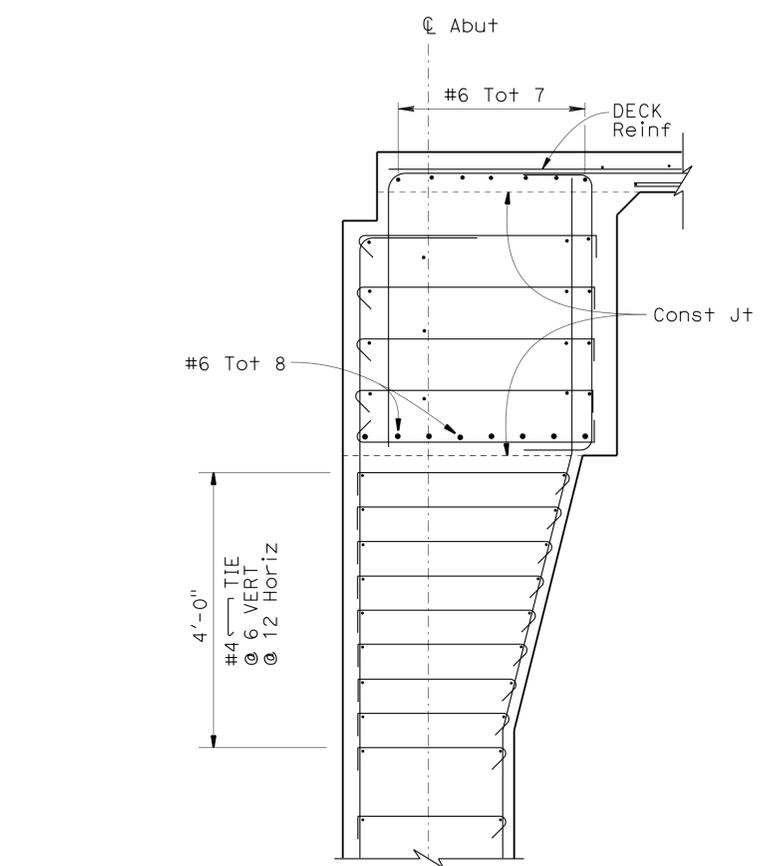
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07	LA	10	37.2/42.4	1628	2313

Dawit Tadelle Esq. 10/01/14
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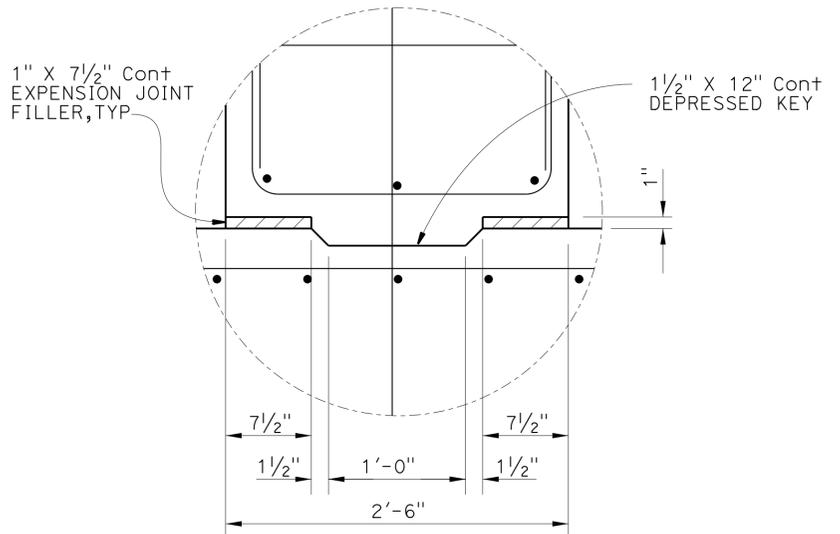


ABUTMENT TYPICAL SECTION (AT GIRDER)
3/4" = 1'-0"

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



ABUTMENT TYPICAL SECTION (BETWEEN GIRDERS)
3/4" = 1'-0"

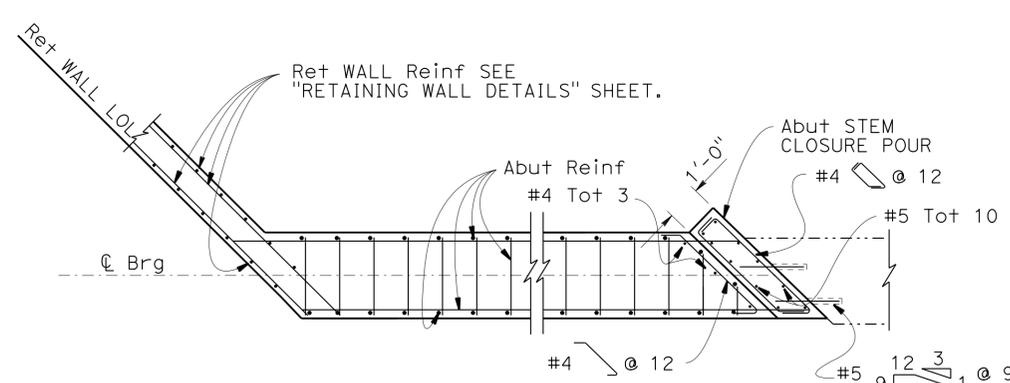


DETAIL A
1/2" = 1'-0"

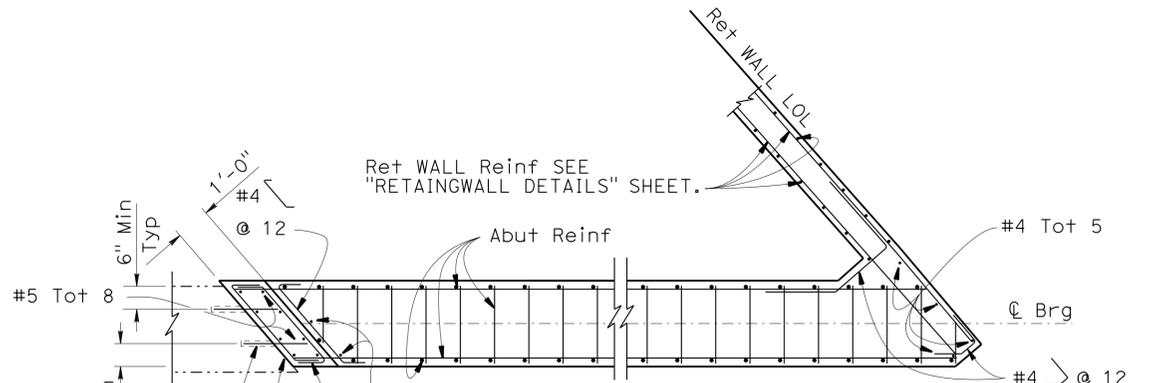
NOTE:
1. For reinforcement not shown, see "PRESTRESSED GIRDER DETAILS NO. 1" and "GIRDER REINFORCEMENT DETAILS" sheets.

DESIGN BY Sharareh Bikae CHECKED Jason Fang/ Dawit Worku DETAILS BY Lan T Tran/ J. Valencia CHECKED Jason Fang/ Dawit Worku QUANTITIES BY Sharareh Bikae CHECKED Edward B. Mu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-0671 POST MILE 38.97	HOLT AVENUE UNDERCROSSING (WIDEN) ABUTMENT DETAILS NO. 1	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1 CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 5-21-14 07/22/11 5/15/13	SHEET 08 OF 42
	STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	FILE => 53-0671-F-003d101.dgn			

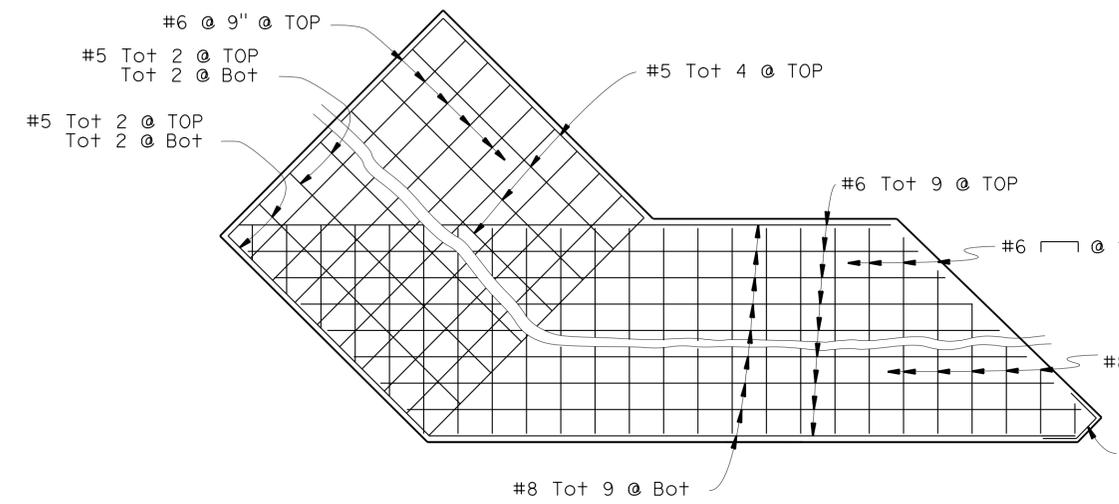
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1629	2313
<i>Davit T Worku</i> REGISTERED CIVIL ENGINEER			10/01/14 DATE	Dawit T Worku No. C60711 Exp 12-31-14 CIVIL STATE OF CALIFORNIA	
6-1-15 PLANS APPROVAL DATE					
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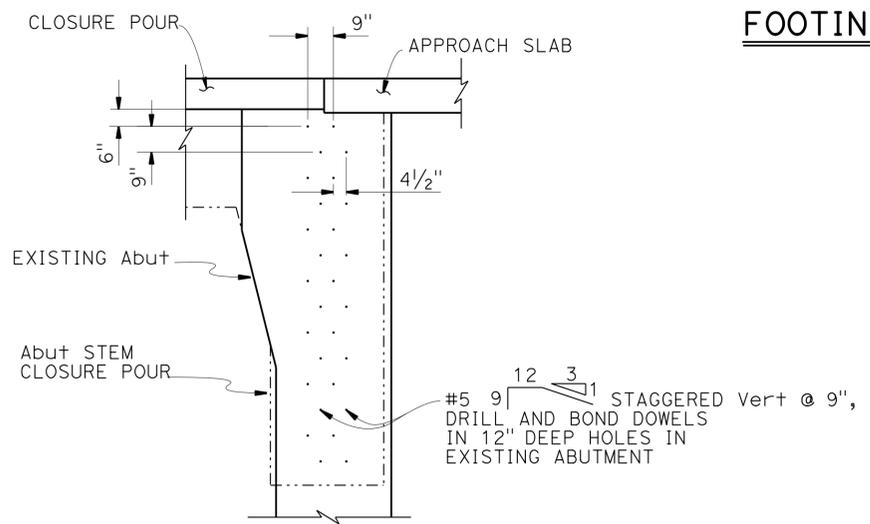
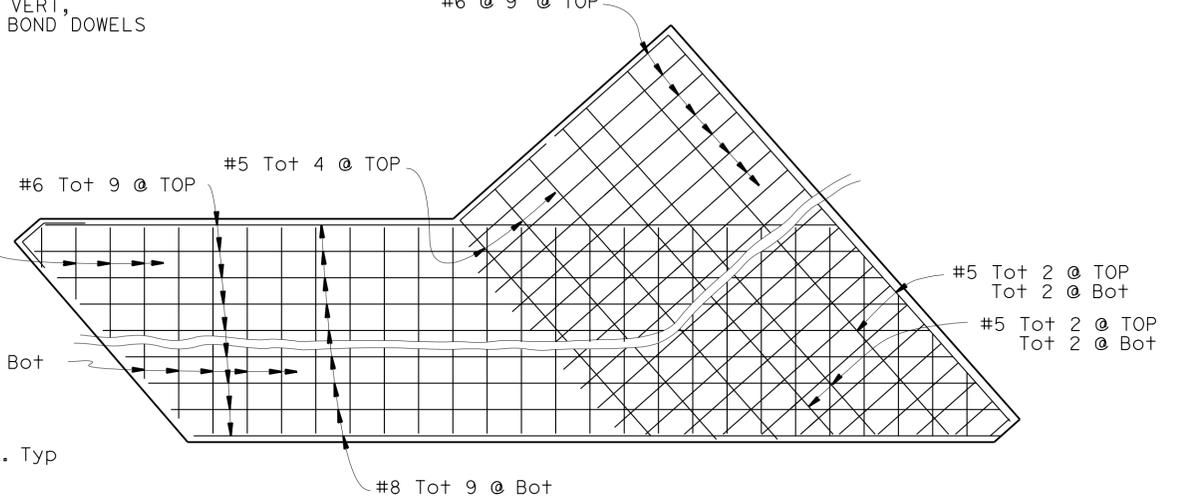
SECTION A-A
3/8" = 1'-0"



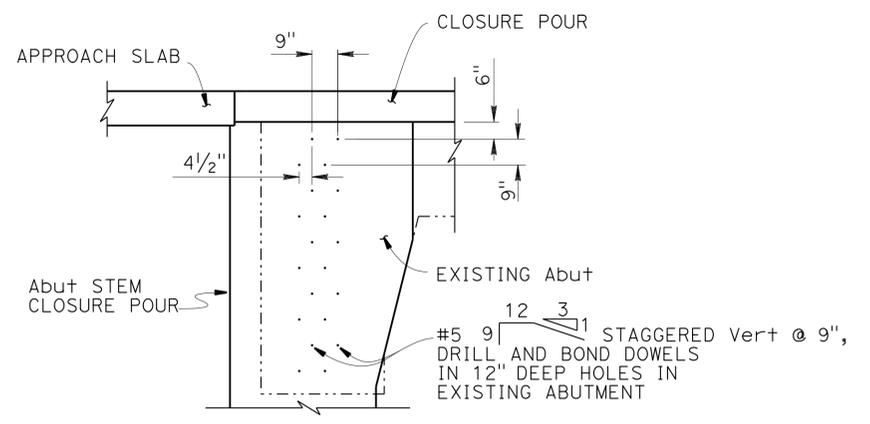
SECTION B-B
3/8" = 1'-0"



FOOTING CORNER DETAIL
3/8" = 1'-0"



SECTION D-D
3/8" = 1'-0"



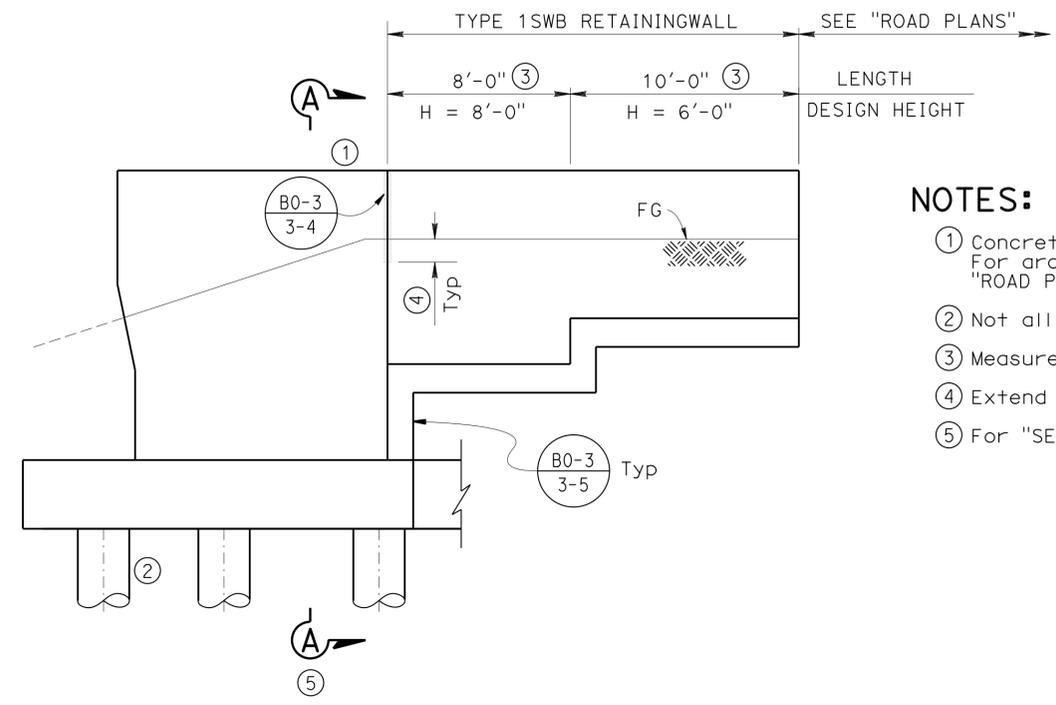
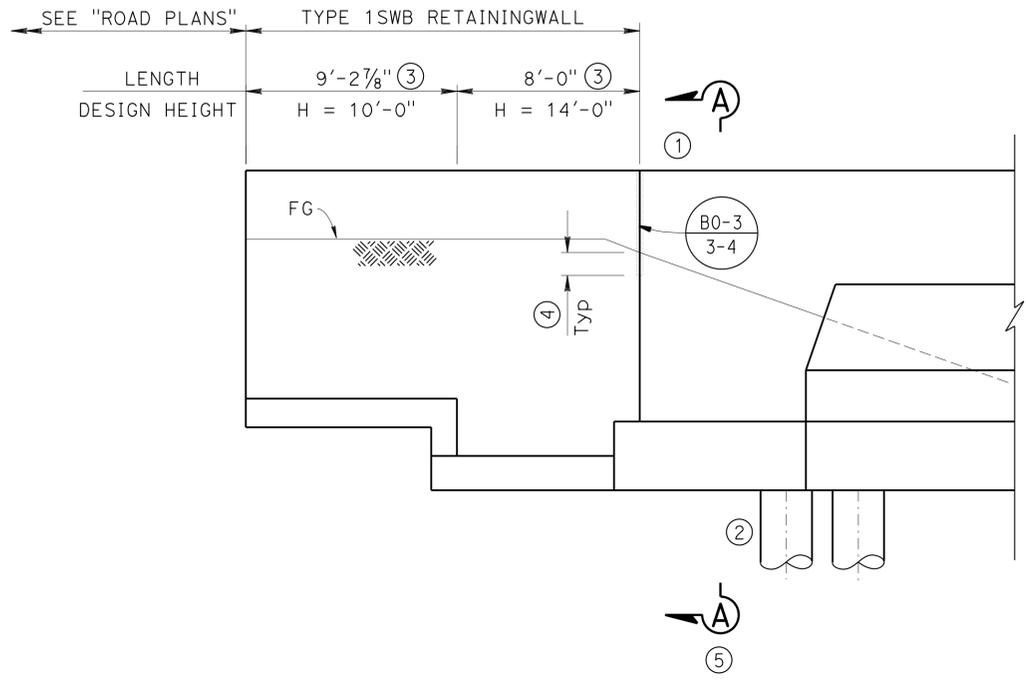
SECTION C-C
3/8" = 1'-0"

NOTE:
1. For spacing see "RETAINING WALL DETAILS"

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

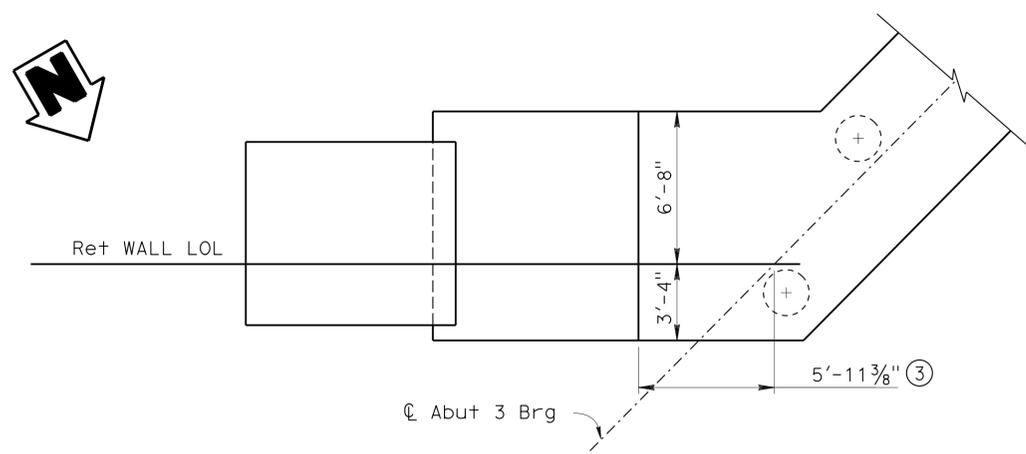
DESIGN BY Sharareh Bikae CHECKED Jason Fang/ Dawit Worku DETAILS BY Lan T Tran/ J. Valencia CHECKED Jason Fang/ Dawit Worku QUANTITIES BY Sharareh Bikae CHECKED Edward B. Mu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-0671 POST MILE 38.97	HOLT AVENUE UNDERCROSSING (WIDEN) ABUTMENT DETAILS NO. 2
	UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1	CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES: 7-25-14, 07/24/11, 12/7/02 SHEET 09 OF 42
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	FILE => 53-0671-F-a03d02.dgn		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1630	2313
Dawit Tadelle Esq REGISTERED CIVIL ENGINEER			10/01/14 DATE		
6-1-15 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

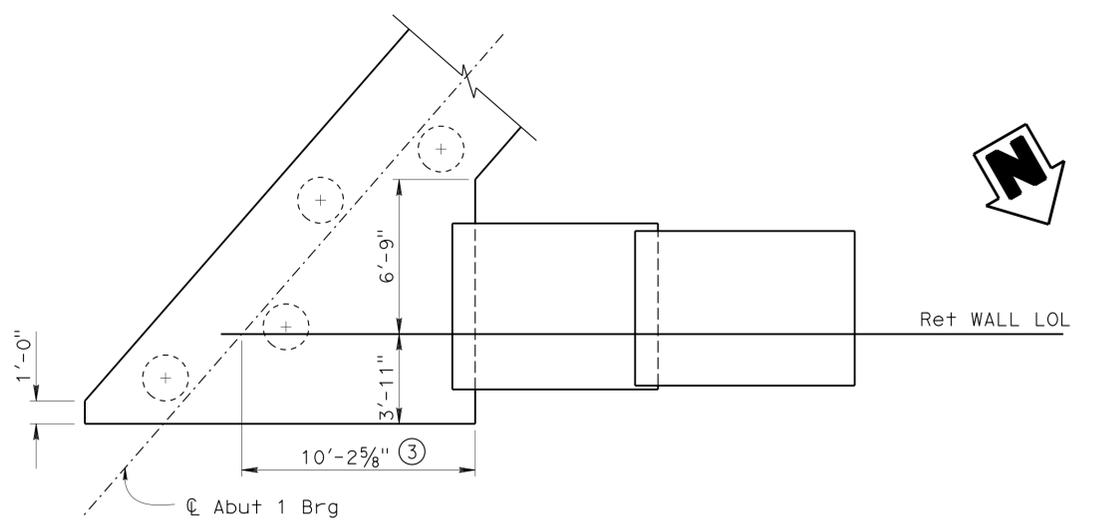


ELEVATION
1/4" = 1'-0"

- NOTES:**
- ① Concrete barrier type 736 (Mod) and SW not shown. For architectural details on sound walls see "ROAD PLANS"
 - ② Not all piles are shown.
 - ③ Measured along Ret wall LOL
 - ④ Extend water stop 12" below FG
 - ⑤ For "SECTION A-A", see "RETAINING WALL DETAILS" sheet.



ABUTMENT 3 RETAINING WALL
1/4" = 1'-0"



ABUTMENT 1 RETAINING WALL
1/4" = 1'-0"

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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	53-0671	HOLT AVENUE UNDERCROSSING (WIDEN) RETAINING WALL LAYOUT (LEFT WIDEN)		
	DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku			POST MILE	38.97			
	QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu			UNIT: 3622	PROJECT NUMBER & PHASE: 0713000007-1		CONTRACT NO.: 07-1193U1	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS								DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 06/17/13 09/02/13 9/18/13 5/28/14	SHEET 10 OF 42

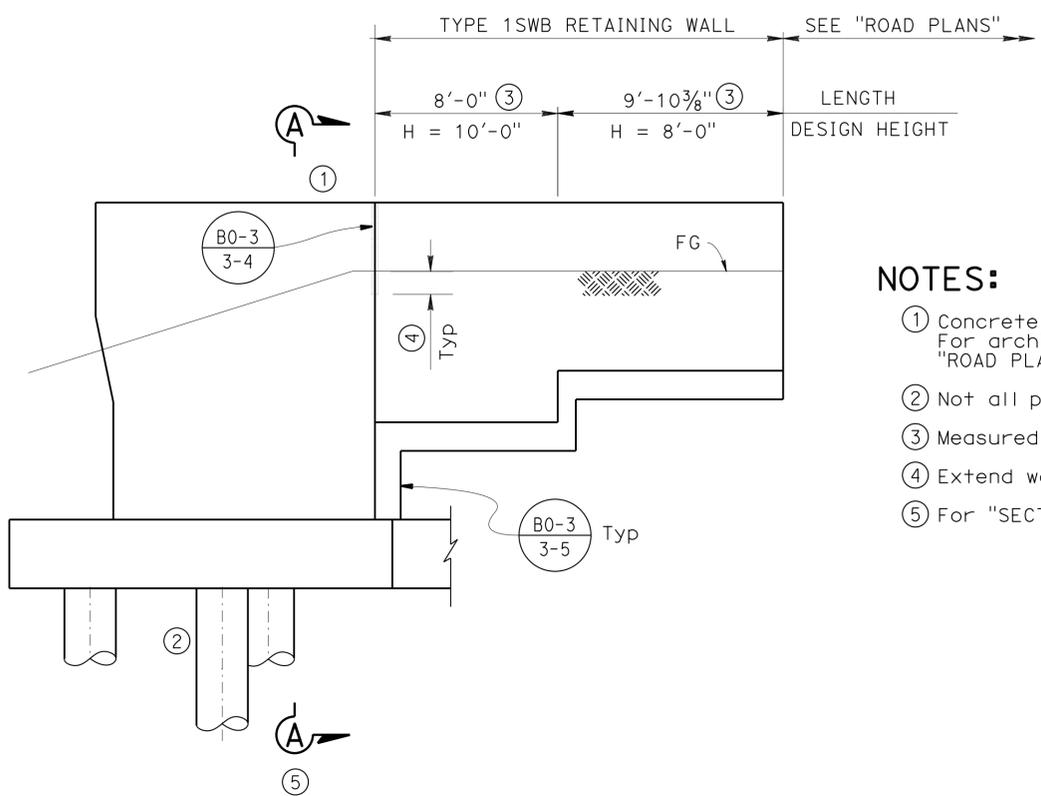
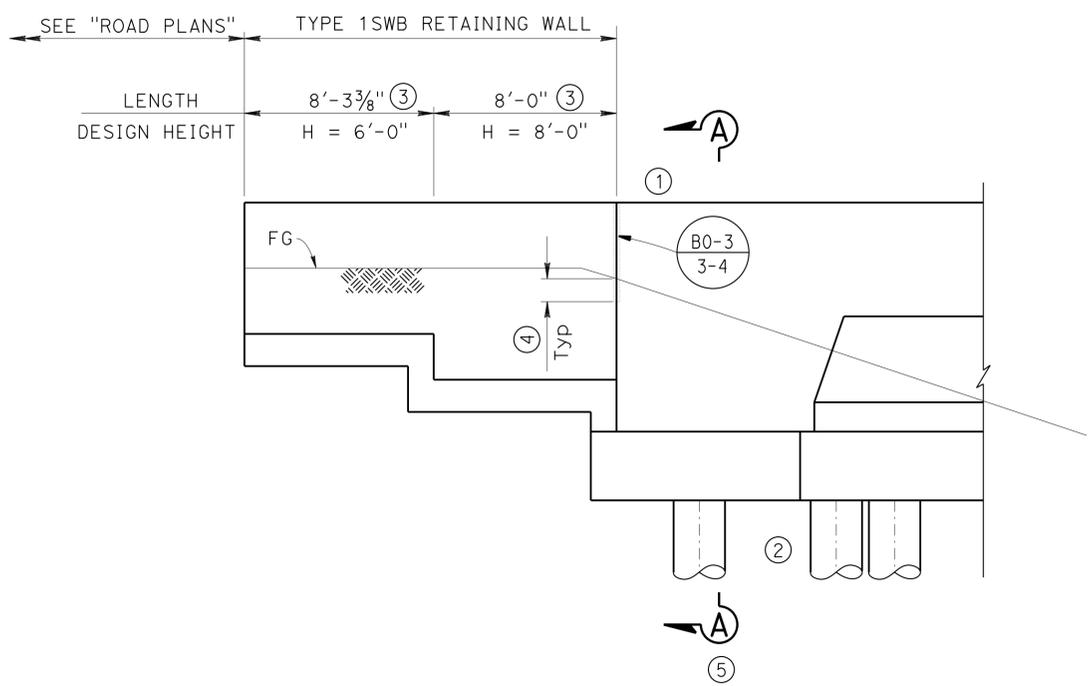
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1631	2313

Dawit Tadelle Esq 10/01/14
 REGISTERED CIVIL ENGINEER DATE

6-1-15
 PLANS APPROVAL DATE

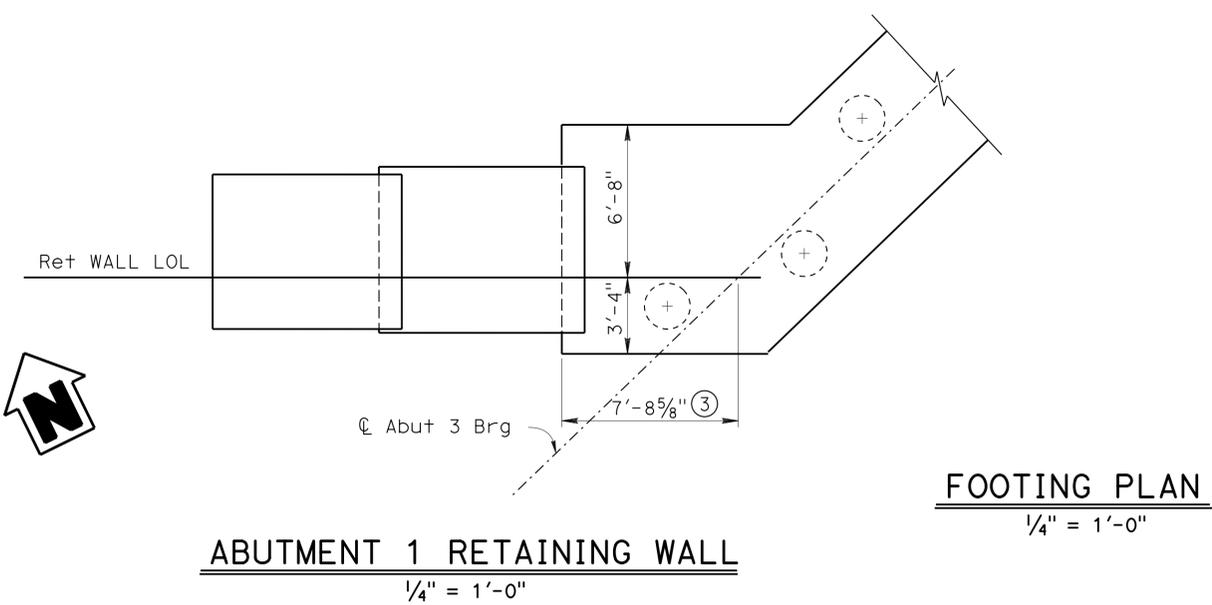
Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA

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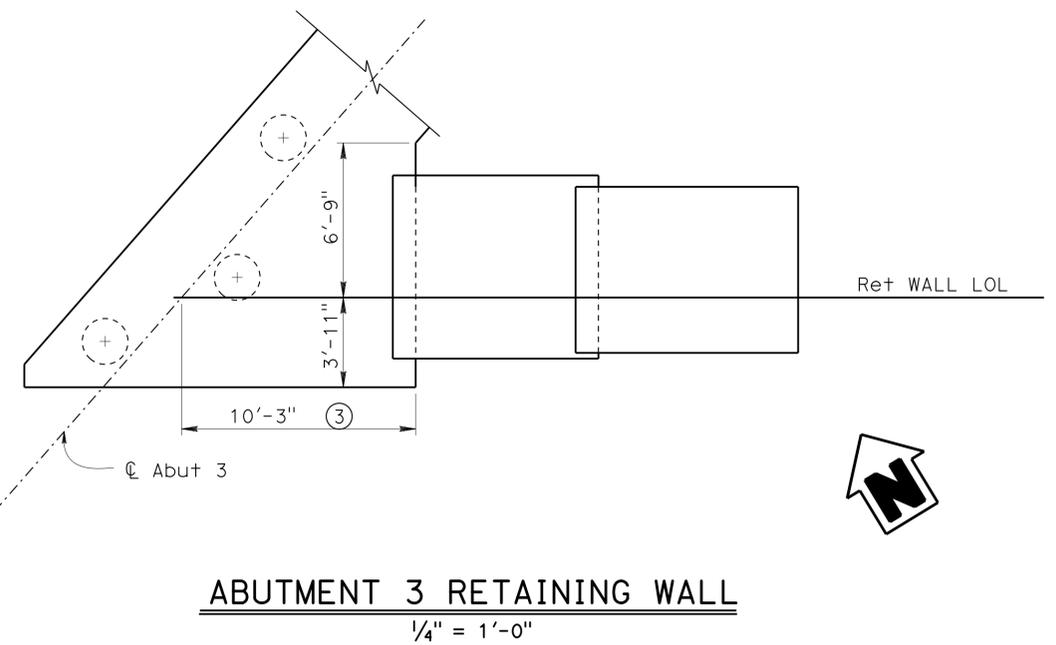


ELEVATION
 1/4" = 1'-0"

- NOTES:**
- ① Concrete barrier type 736 (Mod) and SW not shown. For architectural details on sound walls see "ROAD PLANS"
 - ② Not all piles are shown.
 - ③ Measured along Ret wall LOL
 - ④ Extend water stop 12" below FG
 - ⑤ For "SECTION A-A", see "RETAINING WALL DETAILS" sheet.



ABUTMENT 1 RETAINING WALL
 1/4" = 1'-0"



ABUTMENT 3 RETAINING WALL
 1/4" = 1'-0"

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

DESIGN	BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-0671	HOLT AVENUE UNDERCROSSING (WIDEN)	
	DETAILS BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku			POST MILE 38.97		RETAINING WALL LAYOUT (RIGHT WIDEN)
	QUANTITIES BY Sharareh Bikae	CHECKED Edward B. Mu			REVISION DATES 09/02/13 09/02/13 5-28-14		

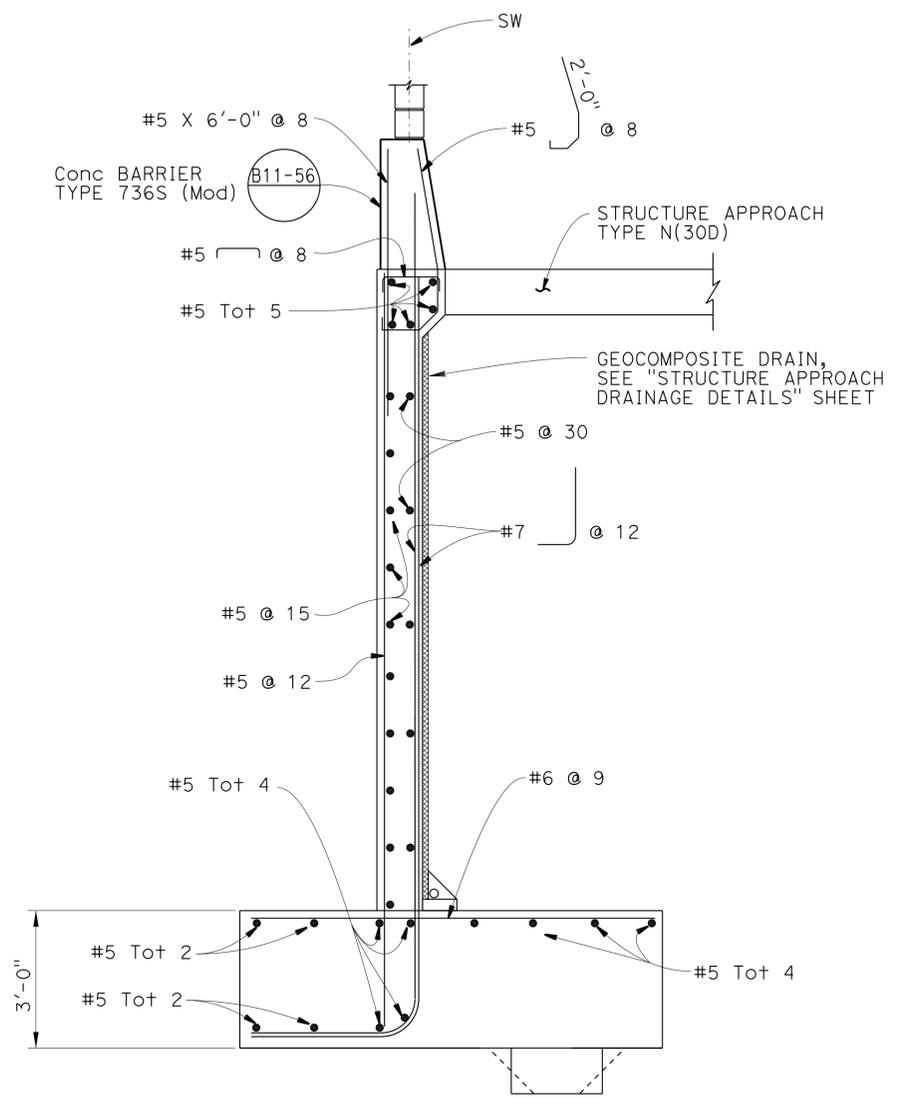
UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1 CONTRACT NO.: 07-1193U1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

FILE => 53-0671-g-rw_1002.dgn

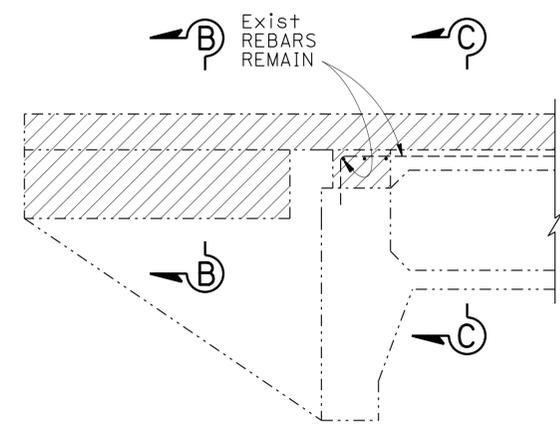
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1632	2313

Dawit Tadelle Esq. 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA
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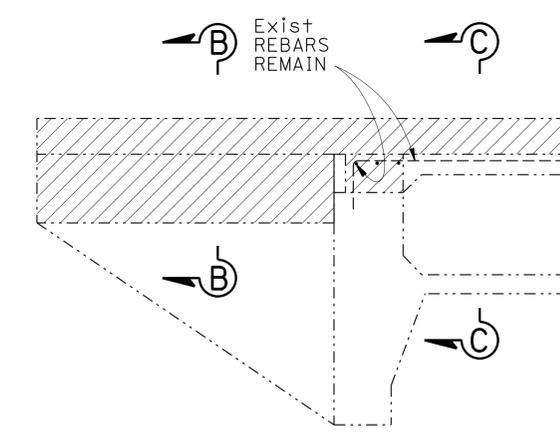


SECTION A-A
1/2" = 1'-0"

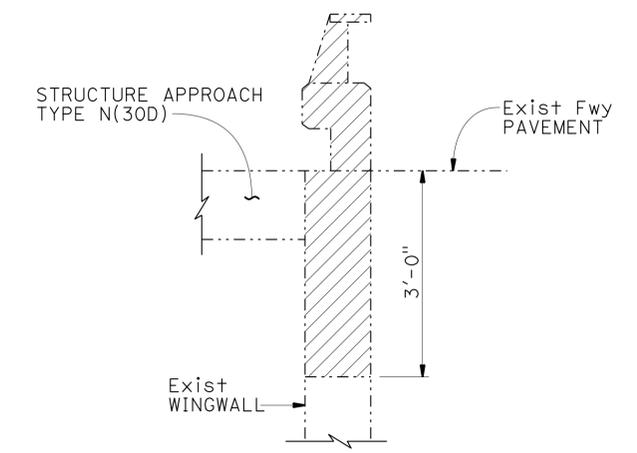
NOTE:
For details not shown, see "RETAINING WALL TYPE 1SWB" H = 14'-0"



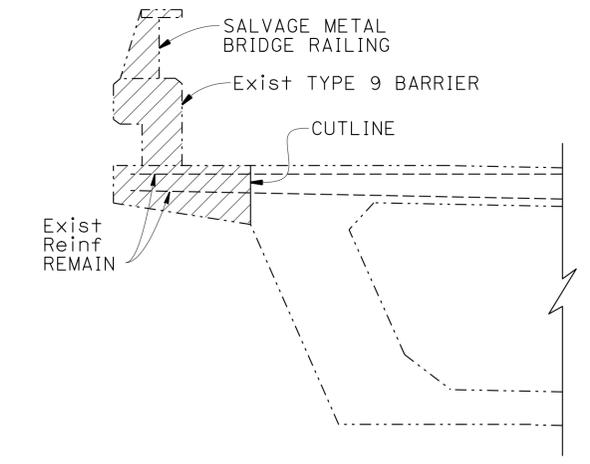
DETAIL X
NO SCALE



DETAIL Y
NO SCALE



SECTION B-B
NO SCALE



SECTION C-C
NO SCALE

LEGEND

	New Structure
	Existing Structure
	Bridge removal (portion)

CONCRETE REMOVAL

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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	HOLT AVENUE UNDERCROSSING (WIDEN)
	DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku			53-0671	
	QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu			POST MILE	RETAINING WALL DETAILS
						38.97	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1 CONTRACT NO.: 07-1193U1
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 7-25-14, 5-28-14, 7-24-14
 SHEET 12 OF 42
 FILE => 53-0671-g-rwd+01.dgn

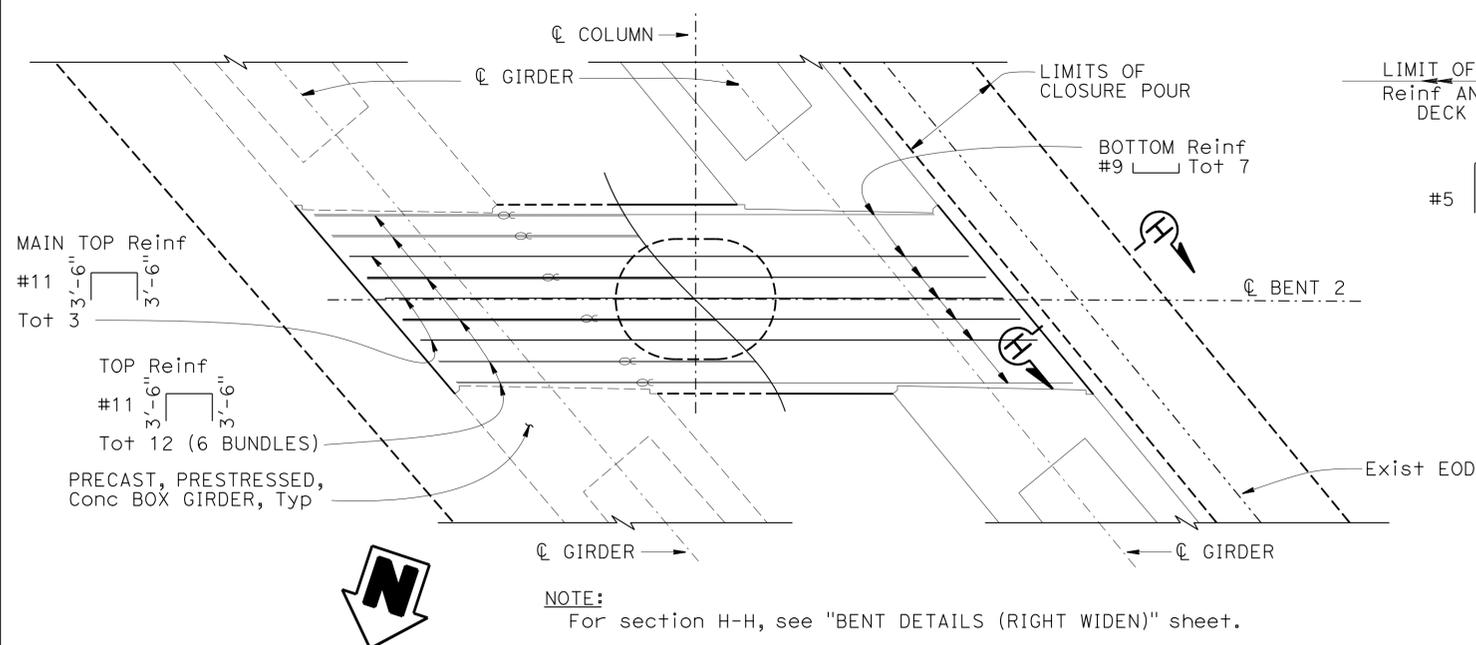
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1633	2313

Dawit Tadelle Eger 10/01/14
 REGISTERED CIVIL ENGINEER DATE

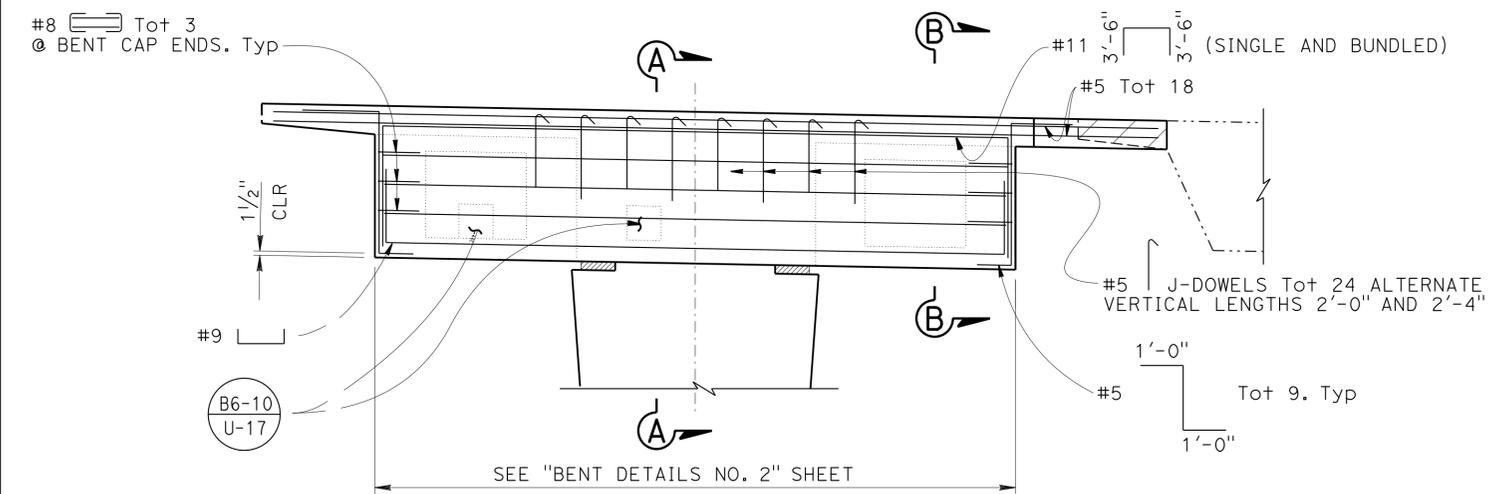
6-1-15
 PLANS APPROVAL DATE

Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA

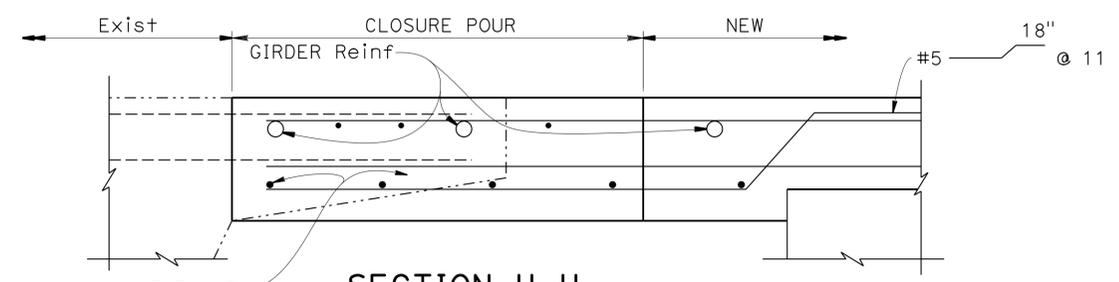
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



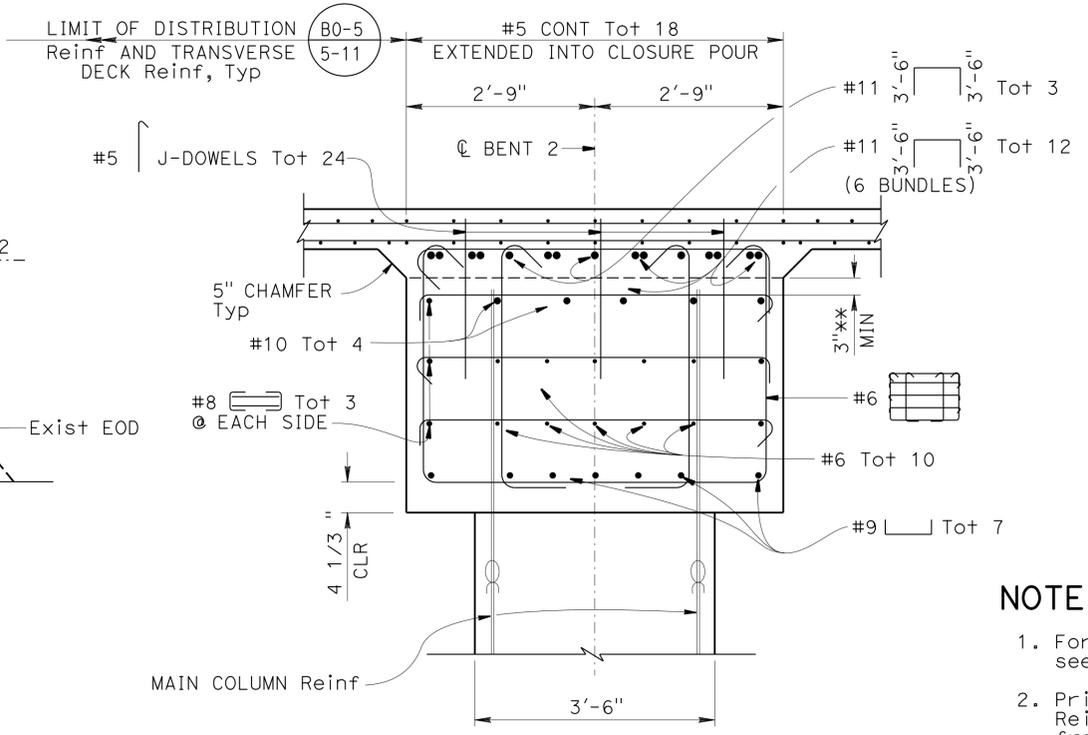
PARTIAL PLAN (LEFT WIDEN)
 $\frac{3}{8}'' = 1'-0''$



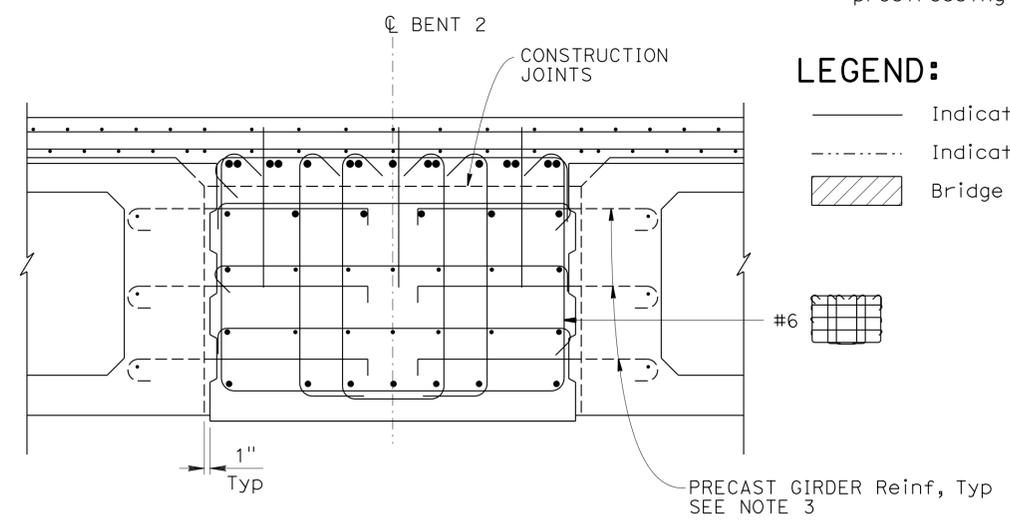
ELEVATION BENT 2 (LEFT WIDEN)
 $\frac{3}{8}'' = 1'-0''$



SECTION H-H
 $1\frac{1}{2}'' = 1'-0''$



SECTION A-A
 $\frac{3}{4}'' = 1'-0''$



SECTION B-B
 $\frac{3}{4}'' = 1'-0''$

NOTES:

1. For column flare Reinf and column geometry, see "BENT 2 DETAILS NO. 1" sheet.
 2. Prior to placing the column, column main Reinf may be aligned to accommodate Reinf from PC/PS girder and bent cap Reinf.
 3. For reinforcement not shown, see "PRESTRESSED GIRDER DETAILS NO. 1" sheet.
 4. No splices allowed in main cap top and bottom Reinf.
- ** Reinforcement may be adjusted to clear prestressing duct

LEGEND:

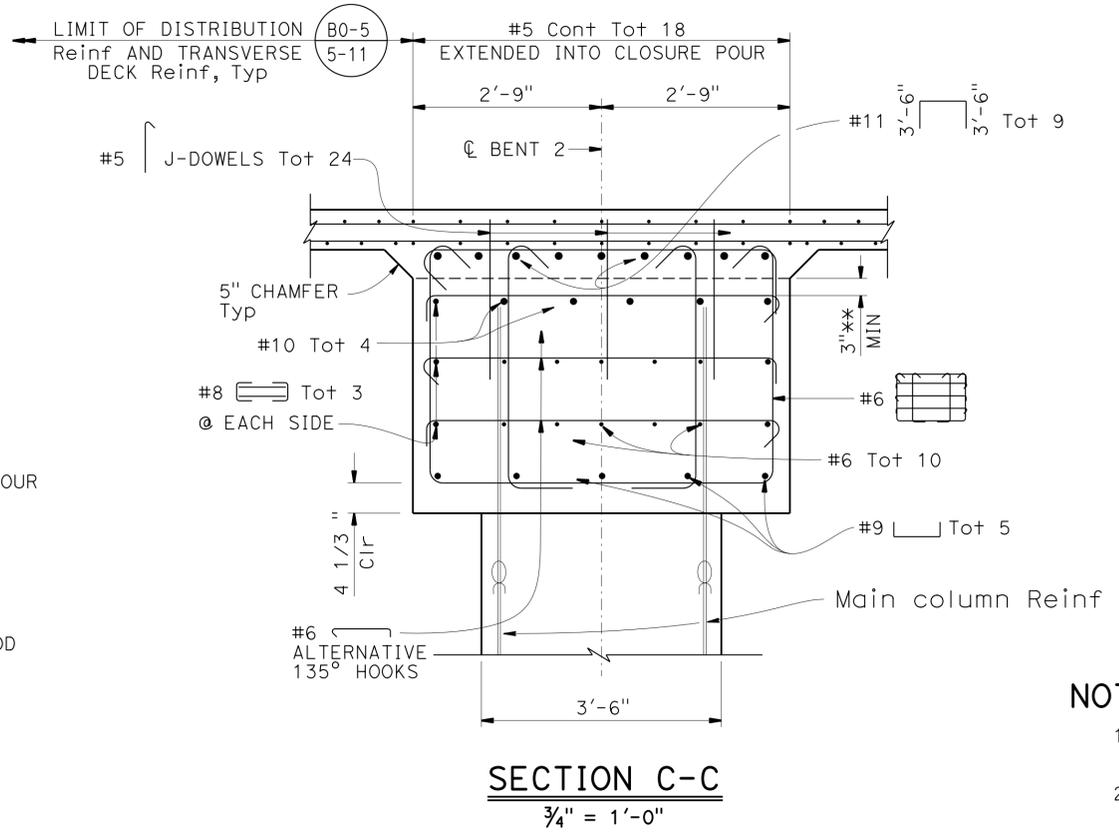
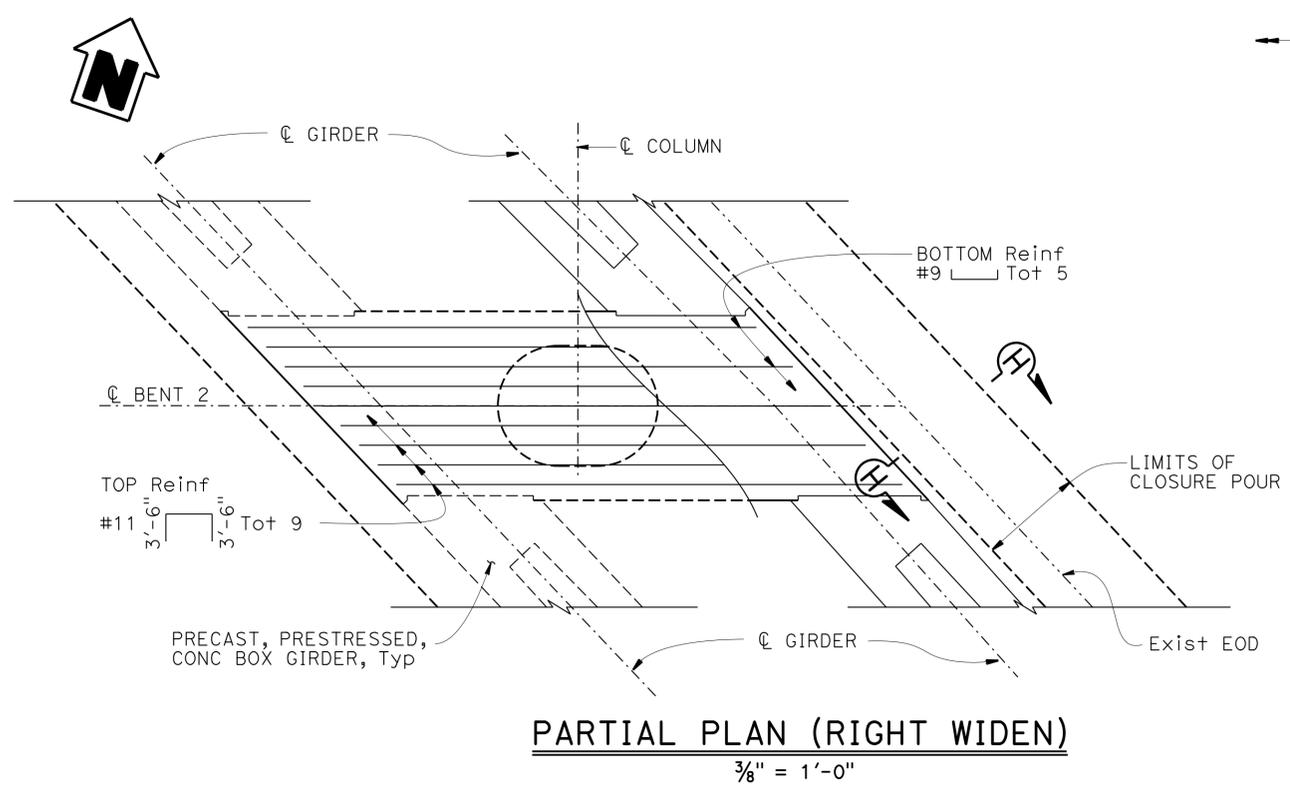
- Indicates new Structure
- - - Indicates existing Structure
- ▨ Bridge removal (portion)

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

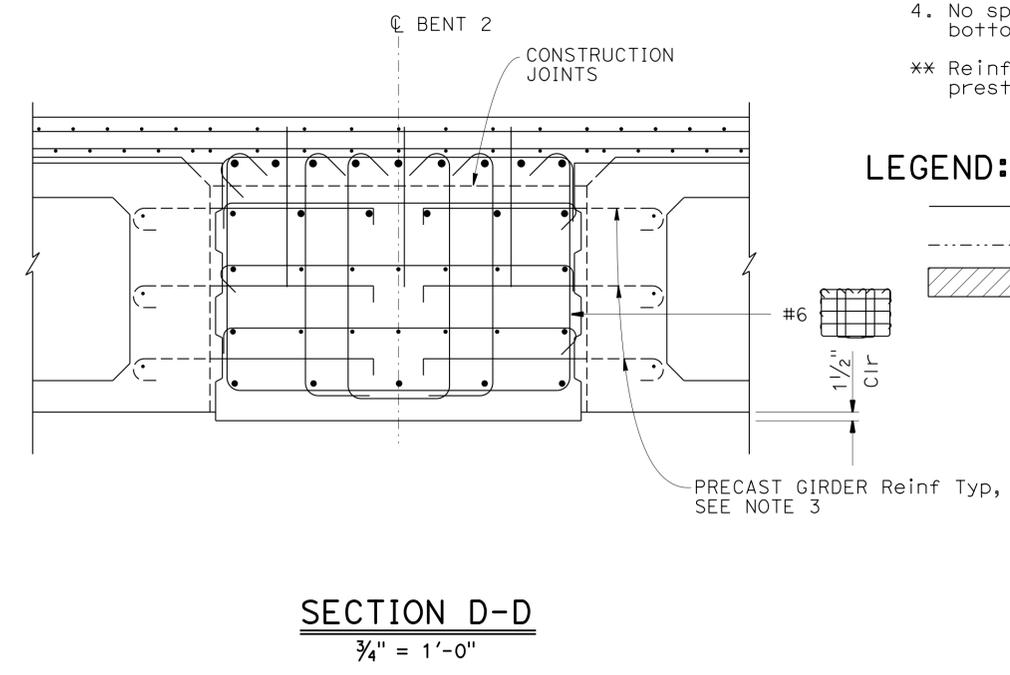
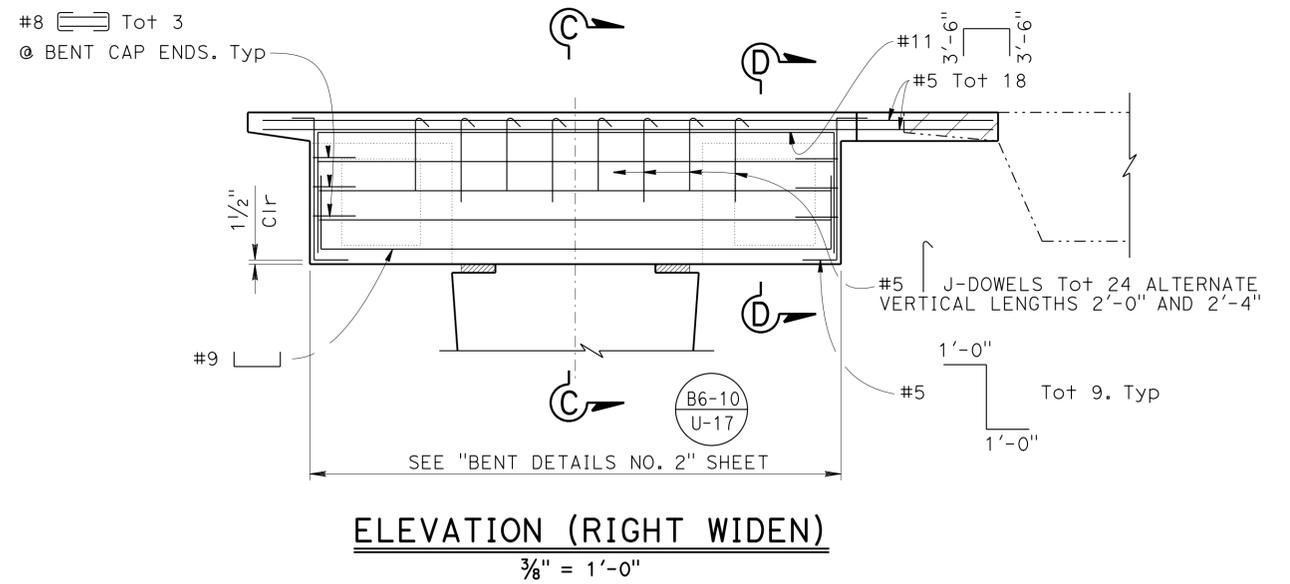
DESIGN	BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	53-0671	HOLT AVENUE UNDERCROSSING (WIDEN) BENT LAYOUT (LEFT WIDEN)
DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku			POST MILE	38.97	
QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu					

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1634	2313

Dawit Tadelle Esq. 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA
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- NOTES:**
- For column flare Reinf and column geometry, see "BENT 2 DETAILS NO. 1" sheet.
 - Prior to placing the column, column main Reinf may be aligned to accommodate Reinf from PC/PS girder and bent cap Reinf.
 - For reinforcement not shown, see "PRESTRESSED GIRDER DETAILS NO. 1" sheet.
 - No splices allowed in main cap top and bottom Reinf.
- ** Reinforcement may be adjusted to clear prestressing duct



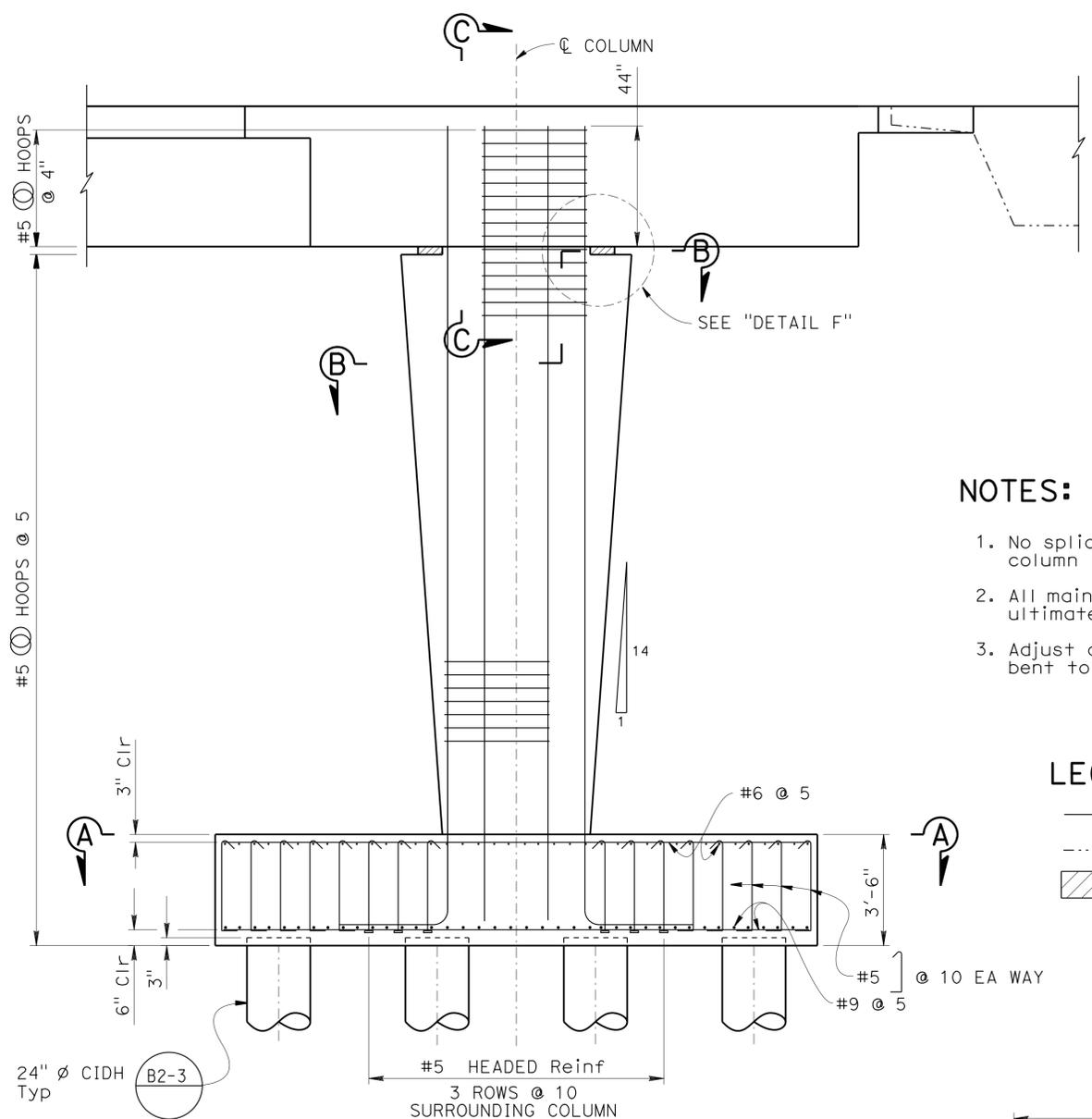
- LEGEND:**
- Indicates new Structure
 - - - - - Indicates existing Structure
 - ▨ Bridge removal (portion)

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

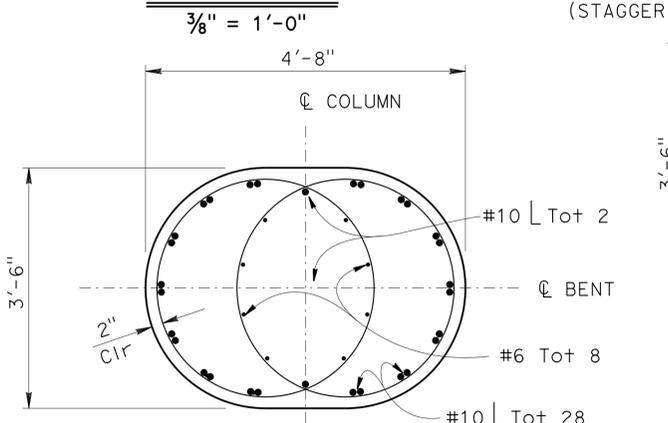
DESIGN BY Sharareh Bikae CHECKED Jason Fang/ Dawit Worku DETAILS BY Lan T Tran/ J. Valencia CHECKED Jason Fang/ Dawit Worku QUANTITIES BY Sharareh Bikae CHECKED Edward B. Mu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-0671 POST MILE 38.97	HOLT AVENUE UNDERCROSSING (WIDEN) BENT LAYOUT (RIGHT WIDEN)
	STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3622 PROJECT NUMBER & PHASE: 071300007-1 CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES
	0 1 2 3	FILE => 53-0671-h-b02_lo02.dgn	REVISION DATES 5-16-13 2-25-14 3-05-14 5-28-14	SHEET 14 OF 42

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1635	2313

Dawit Tadelle Esq. 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA
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ELEVATION
3/8" = 1'-0"



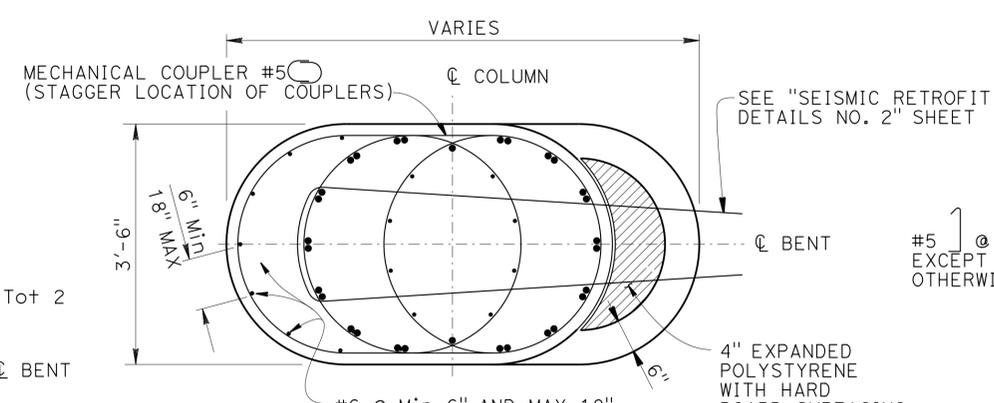
SECTION A-A
3/4" = 1'-0"

NOTES:

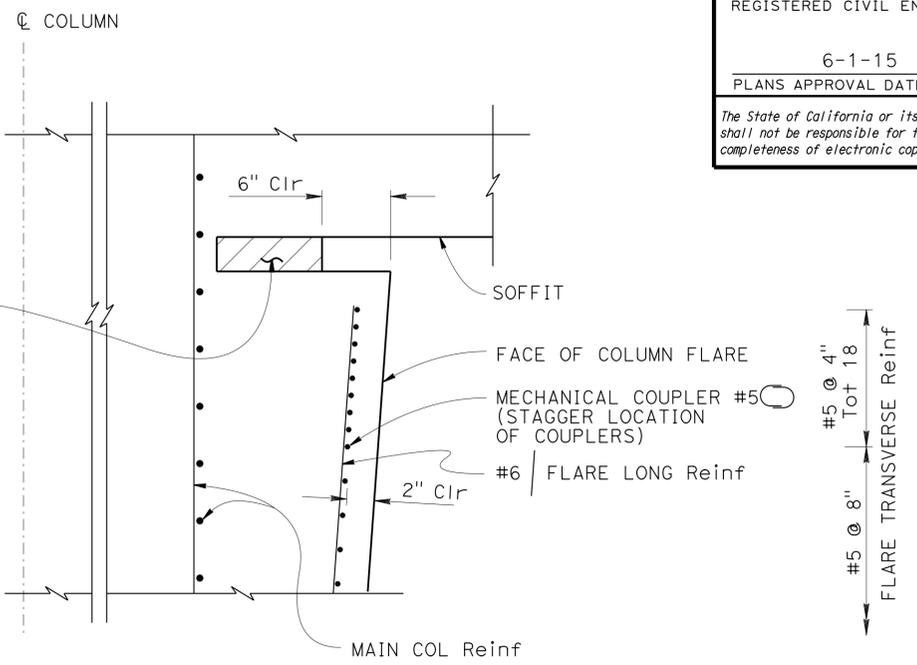
1. No splices in main longitudinal column reinforcement
2. All main reinforcement hoops are ultimate butt spliced continuous.
3. Adjust column reinforcement at bent to clear prestressing ducts.

LEGEND:

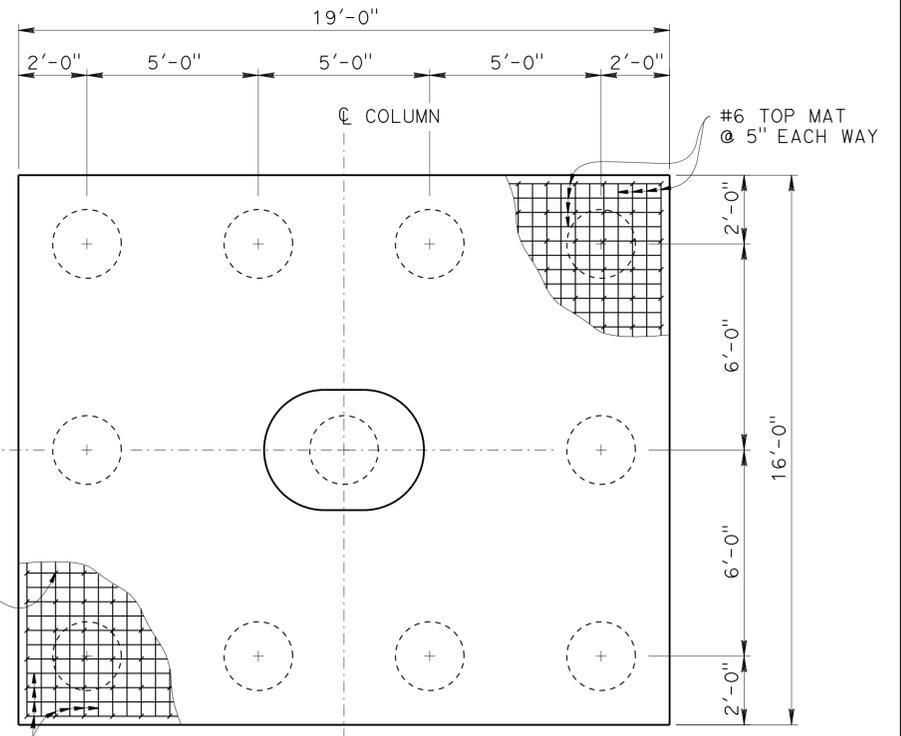
- New Structure
- - - Existing Structure
- ▨ Expanded Polystyrene



SECTION B-B
3/4" = 1'-0"



DETAIL F
1 1/2" = 1'-0"



FOOTING PLAN
3/8" = 1'-0"

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

DESIGN	BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku
DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku
QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-0671
POST MILE	38.97

HOLT AVENUE UNDERCROSSING (WIDEN)
BENT 2 DETAILS NO. 1

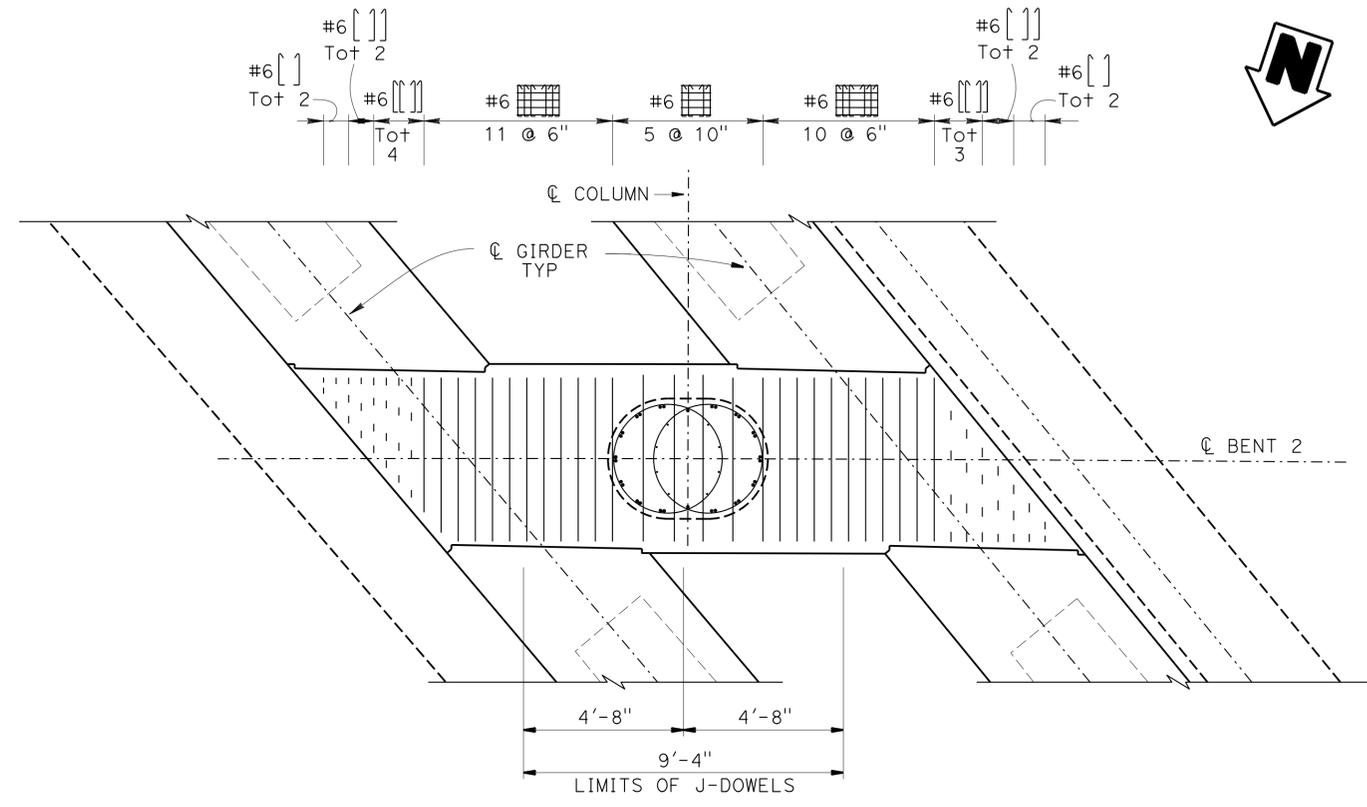
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1636	2313

Dawit Tadelle Esq 10/01/14
REGISTERED CIVIL ENGINEER DATE

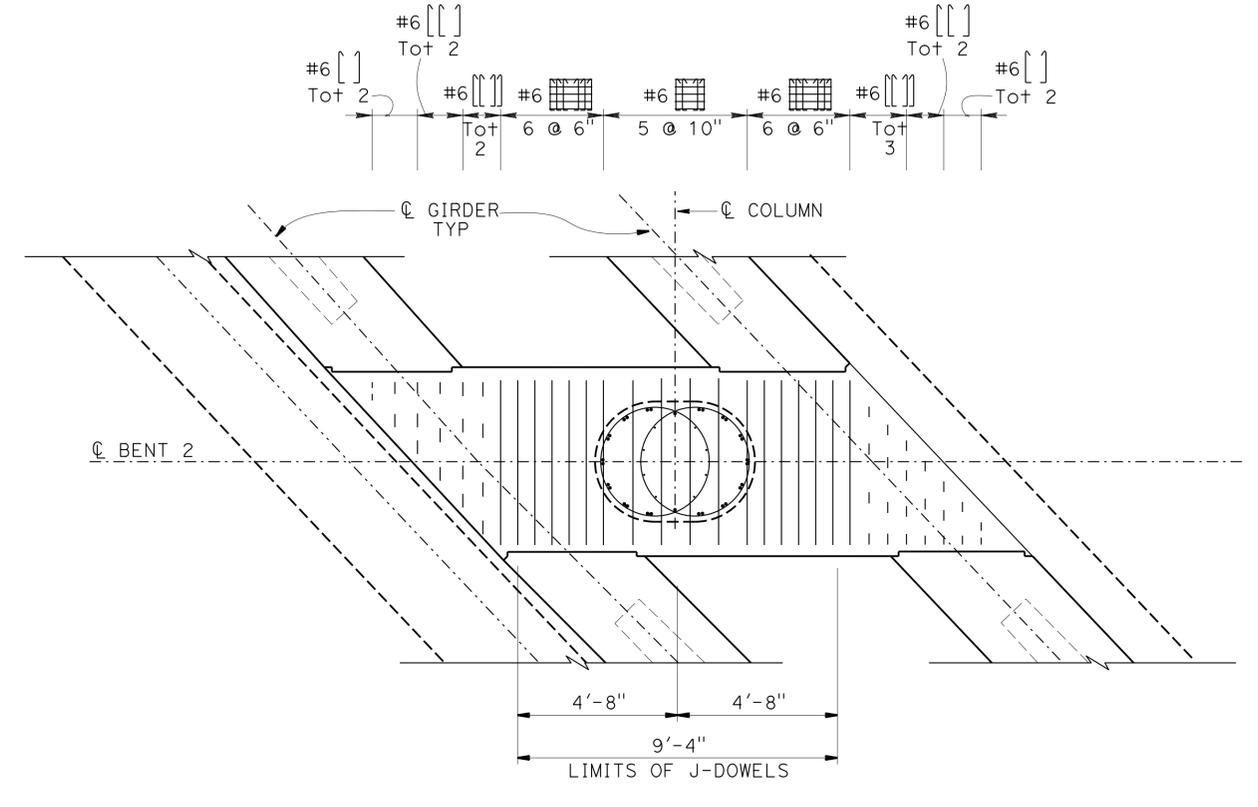
6-1-15
PLANS APPROVAL DATE

Dawit T Worku
No. C60711
Exp 12-31-14
CIVIL
STATE OF CALIFORNIA

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PLAN (LEFT WIDEN)
 $\frac{3}{8}'' = 1'-0''$



PLAN (RIGHT WIDEN)
 $\frac{3}{8}'' = 1'-0''$

JOINT REINFORCEMENT

NOTE:

For reinforcement not shown, see "BENT DETAILS (LEFT WIDEN)", "BENT DETAILS (RIGHT WIDEN)" and "PRESTRESS GIRDER DETAILS NO. 1" sheets.

LEGEND:

- New Structure
- Existing Structure

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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	53-0671	HOLT AVENUE UNDERCROSSING (WIDEN)
	DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku			POST MILE	38.97	
	QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu					
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1	CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES
				0 1 2 3				5-16-13 10-28-13 3-05-14
								SHEET 16 OF 42

TIME PLOTTED => 14:07
18-MAY-2015
DATE PLOTTED =>
USER NAME => s125624

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1637	2313

Dawit Tadelle Esq.		10/01/14
REGISTERED CIVIL ENGINEER	DATE	
6-1-15		
PLANS APPROVAL DATE		

Dawit T Worku	
No. C60711	Exp 12-31-14
CIVIL	

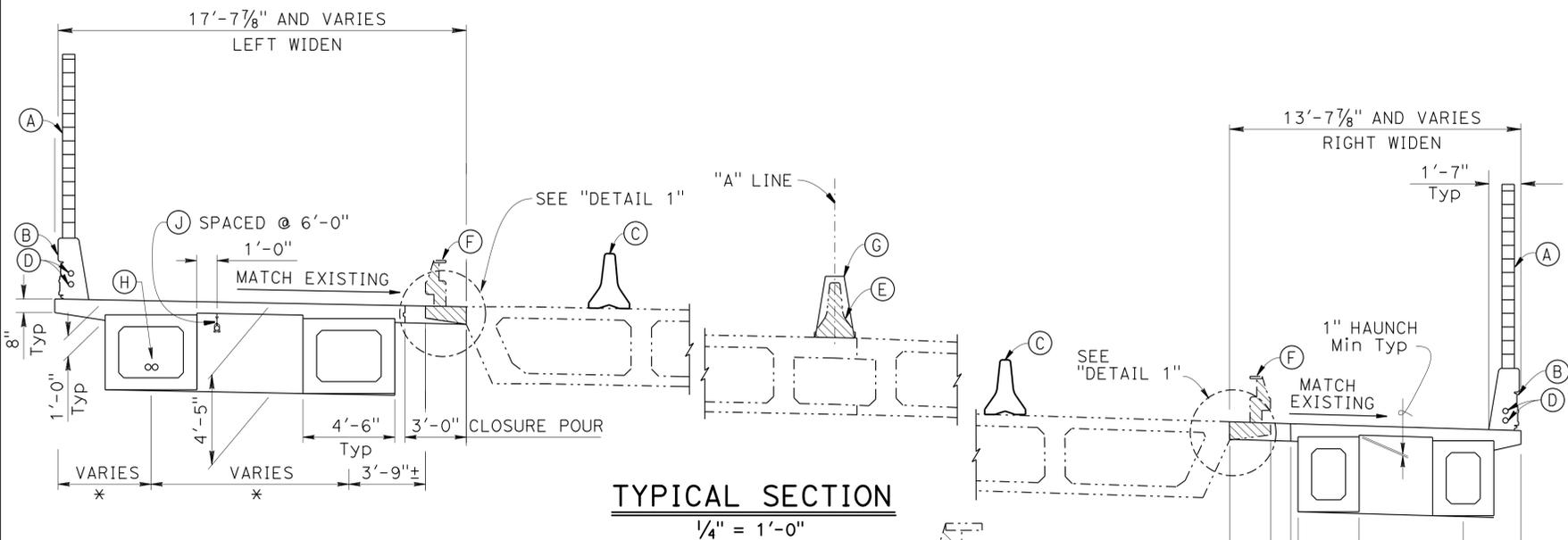
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES:

- (A) Masonry block soundwall.
- (B) Concrete Barrier Type 736 (Mod 1)
- (C) Temporary Railing Type K. See "Road Plans"
- (D) 2-2" * Conduits. See "Road Plans"
- (E) Remove Exist Concrete Barrier Type 50
- (F) Remove Overhang, Barrier and salvage Metal Bridge Transverse deck Reinf remain in place.
- (G) Concrete Barrier Type 60A (Mod)
- (H) 2-3/2" Communication conduit, see "ROAD PLAN"
- (J) 1-NPS 2 1/2" GSP water supply line (B14-5)

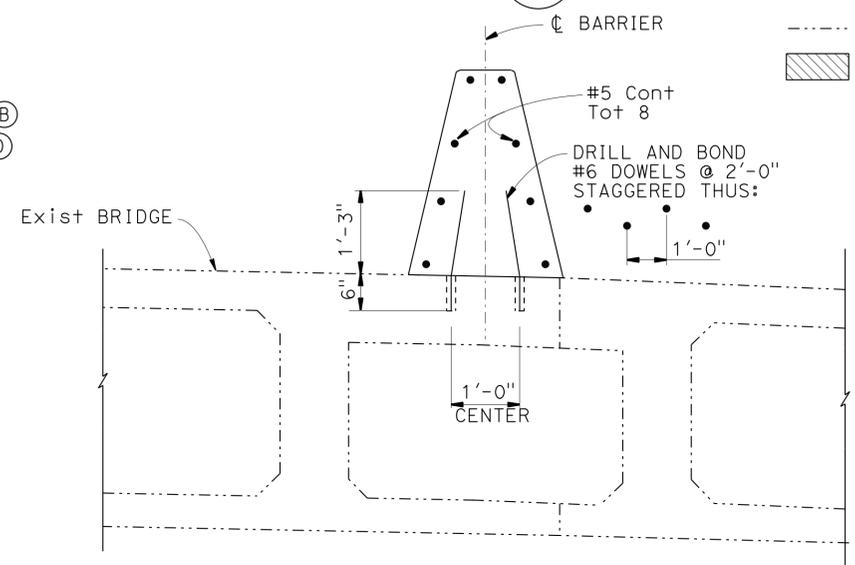
LEGEND

- New structure
- - - Existing structure
- ▨ Bridge removal (portion)



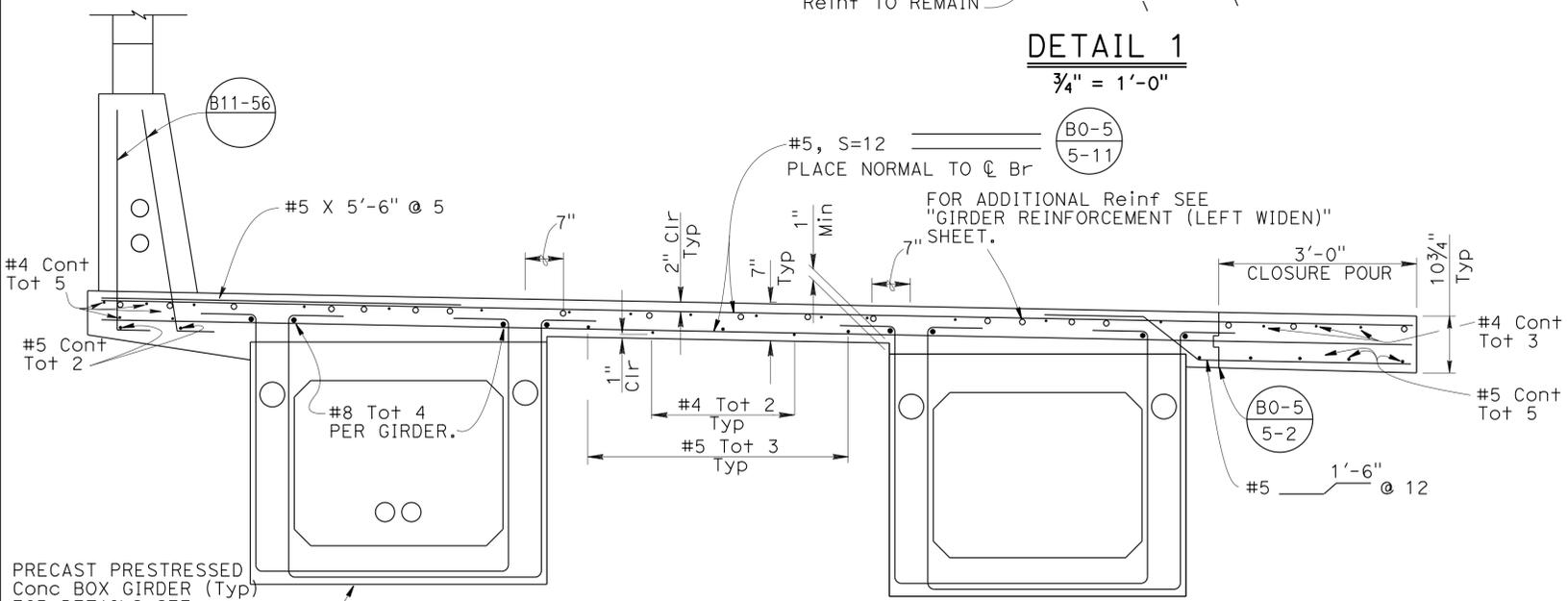
TYPICAL SECTION
1/4" = 1'-0"

*For dimensions see "GIRDER LAYOUT SHEET"



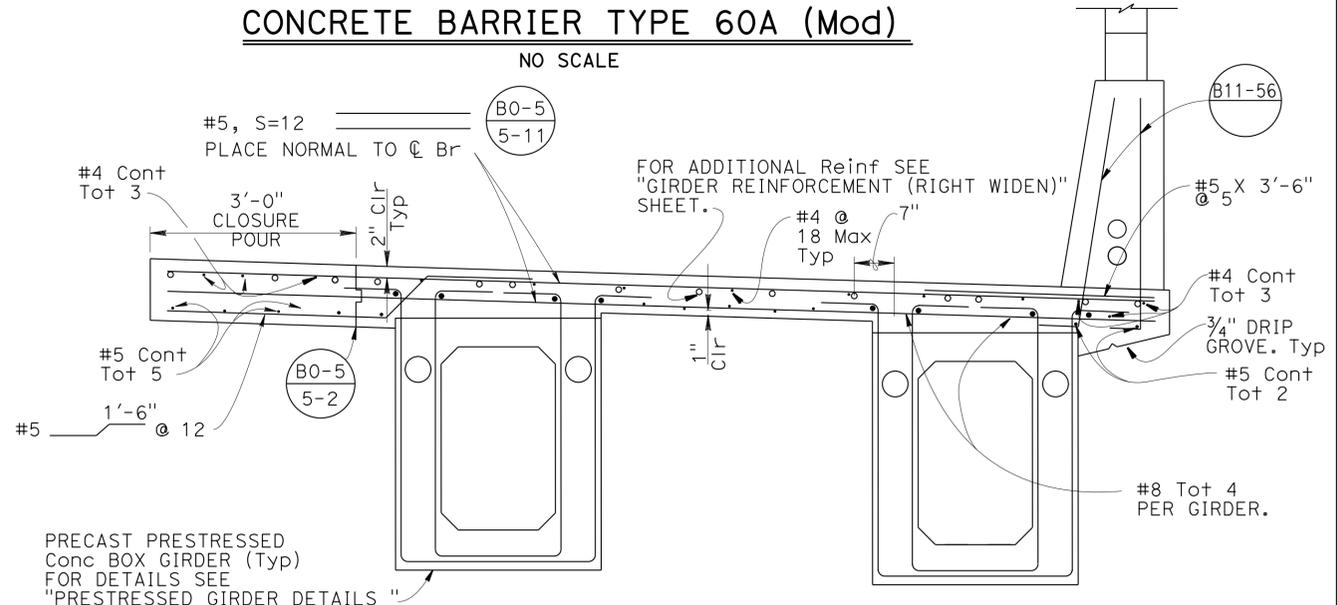
NOTE: For information not shown, see "BARRIER CONCRETE TYPE 60A & 60SA MODIFIED"

CONCRETE BARRIER TYPE 60A (Mod)
NO SCALE



PART TYPICAL SECTION (LEFT WIDEN)
3/4" = 1'-0"

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



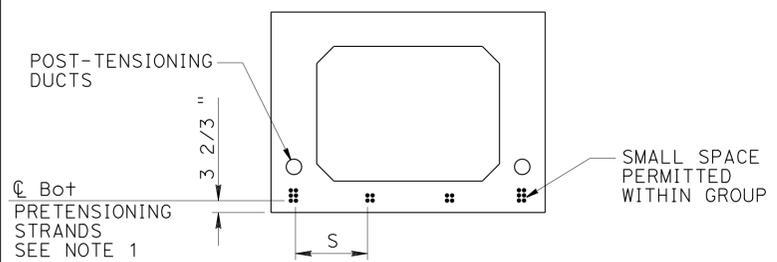
PART TYPICAL SECTION (RIGHT WIDEN)
3/4" = 1'-0"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	53-0671	HOLT AVENUE UNDERCROSSING (WIDEN) TYPICAL SECTION		
	DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku		DESIGN BRANCH	20		POST MILE	38.97
	QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu		UNIT: 3622	PROJECT NUMBER & PHASE: 071300007-4		CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-05-14 5-28-14	17	42

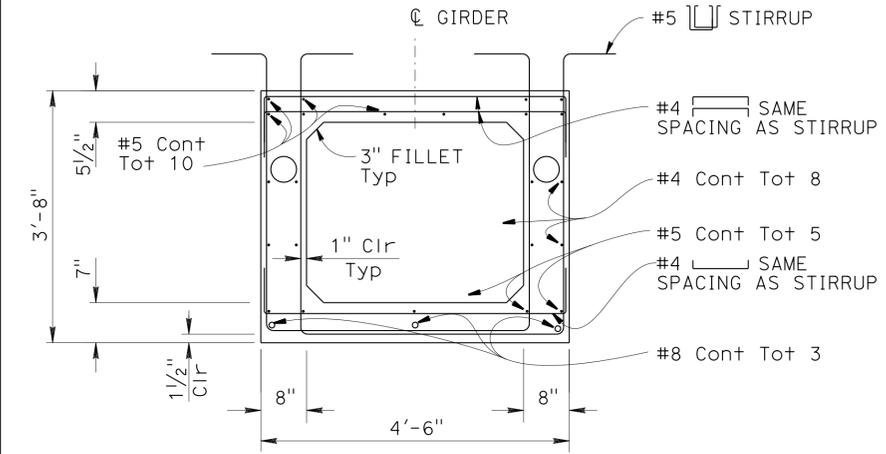
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1639	2313

Dawit Tadelle Ezer 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp 12-31-14
 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.

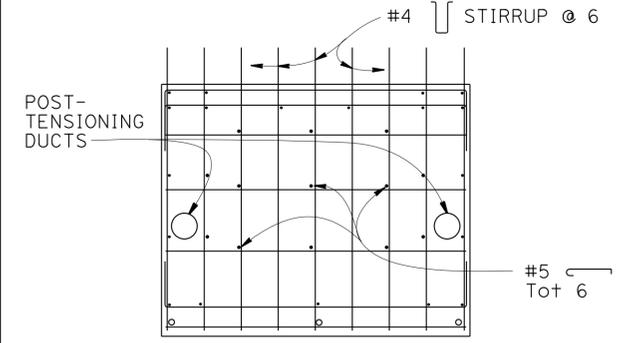


CLEARANCES FOR PRETENSIONED STRANDS
NO SCALE

1. If necessary strands may be bundled in groups consisting of up to 3 vertically 2 horizontally, and separated at the ends.
2. The min distance "S" between groups or individual strands is 1 1/2" for 3/8" strands, 1 3/4" for 1/2" strands, and 2" for 5/8" and 3/4" strands.
3. "S" if measured between centers of adjacent strands.
4. Approval of Engineer is required for deviation.

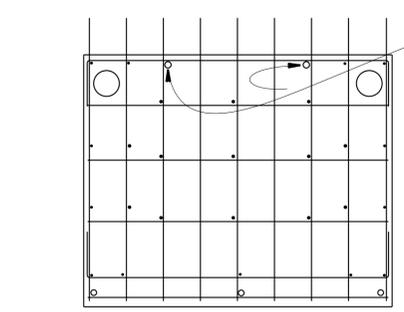


SECTION A-A L+ WIDEN (TYPE B-54)
3/4" = 1'-0"



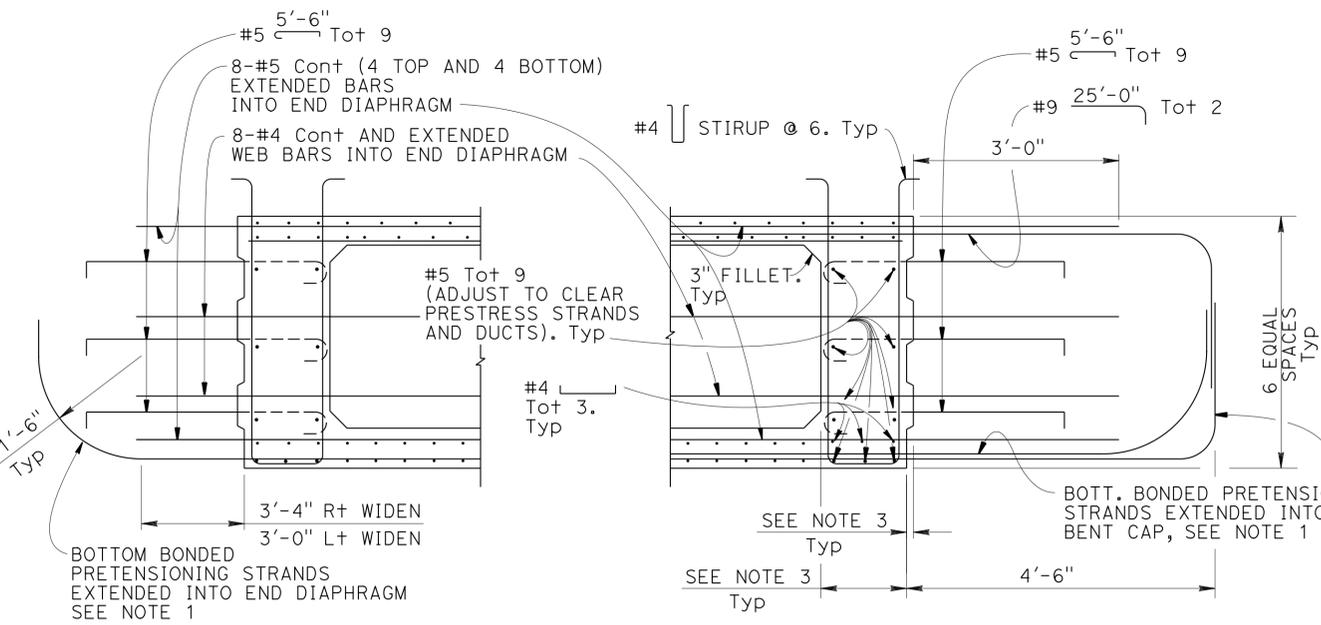
SECTION B-B LEFT WIDEN (TYPE B-54)
3/4" = 1'-0"

NOTE: FOR REINFORCEMENT INFORMATION NOT SHOWN, SEE "SECTION B-B LEFT WIDEN"

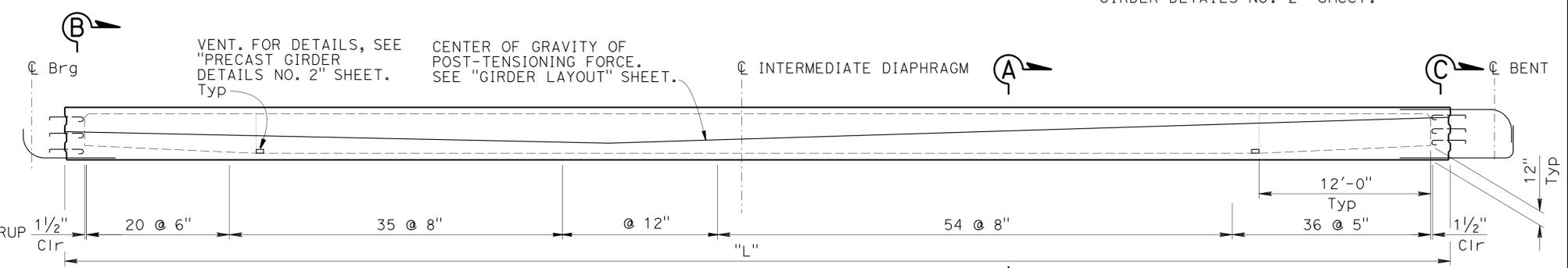


SECTION C-C LEFT WIDEN (TYPE B-54)
3/4" = 1'-0"

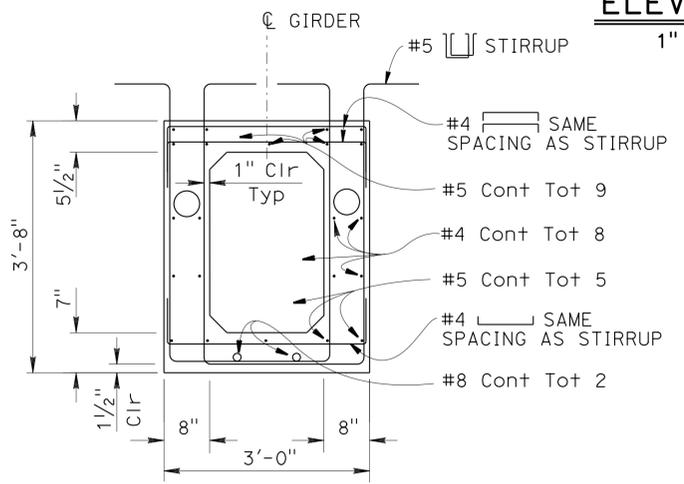
NOTE: FOR REINFORCEMENT INFORMATION NOT SHOWN, SEE "SECTION B-B LEFT WIDEN"



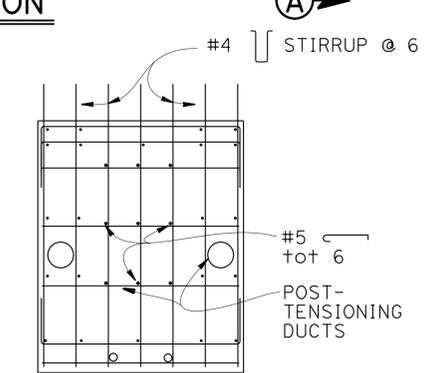
GIRDER END DIAPHRAGM
3/4" = 1'-0"



ELEVATION
1" = 5'

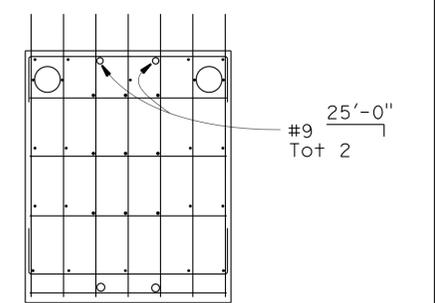


SECTION A-A RIGHT WIDEN (TYPE B-36)
3/4" = 1'-0"



SECTION B-B RIGHT WIDEN (TYPE B-36)
3/4" = 1'-0"

NOTE: For reinforcement information not shown, see "SECTION A-A RIGHT WIDEN"



SECTION C-C RIGHT WIDEN (TYPE B-36)
3/4" = 1'-0"

NOTE: For reinforcement information not shown, see "SECTION B-B RIGHT WIDEN"

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

DESIGN	BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	HOLT AVENUE UNDERCROSSING (WIDEN) PRECAST GIRDER DETAILS NO. 1
DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku			53-0671	
QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu			POST MILE 38.97	

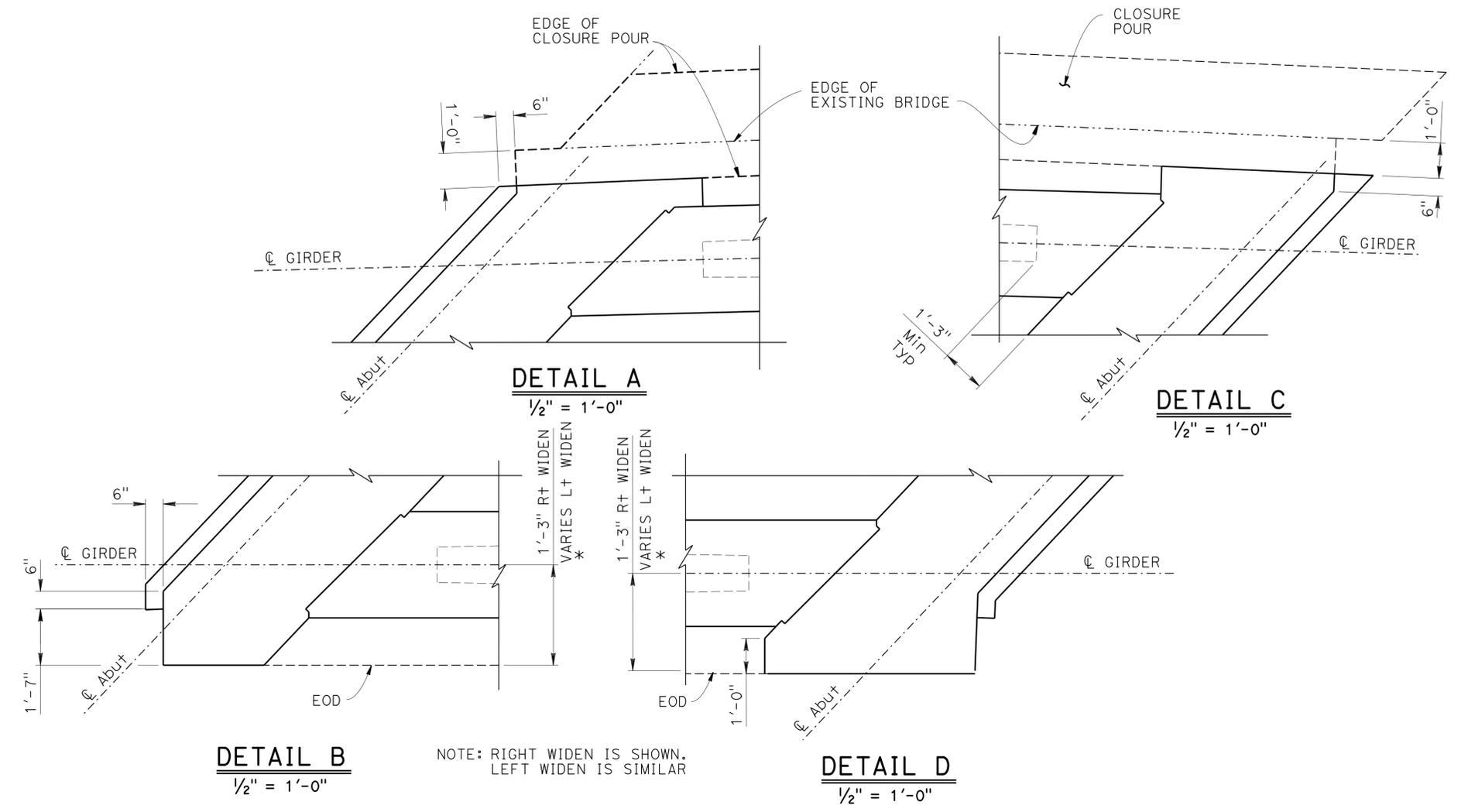
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1640	2313

Davit Tadelle Esq 10/01/14
 REGISTERED CIVIL ENGINEER DATE

6-1-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA

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LEGEND:
 ——— Indicates new Structure
 - - - - - Indicates existing Structure

NOTE: RIGHT WIDEN IS SHOWN.
 LEFT WIDEN IS SIMILAR

NOTE:
 * Measured along ϕ girder

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

DESIGN	BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku
DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku
QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

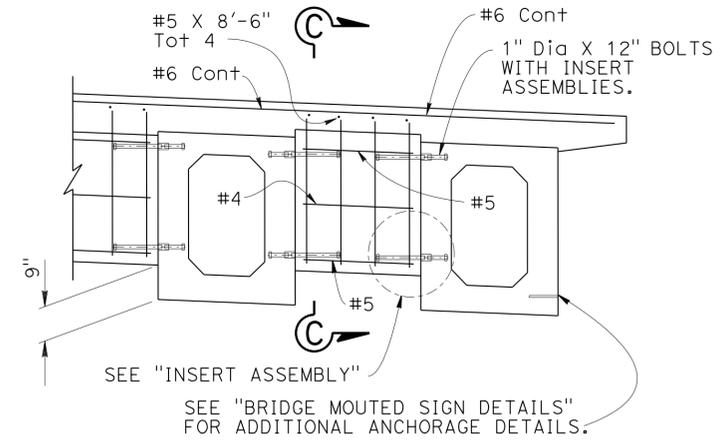
BRIDGE NO.	53-0671
POST MILE	38.97

HOLT AVENUE UNDERCROSSING (WIDEN)
PRECAST GIRDER DETAILS NO. 2

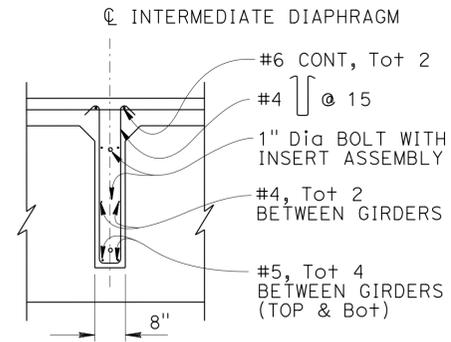


REVISION DATES	SHEET	OF
5-28-14	20	42

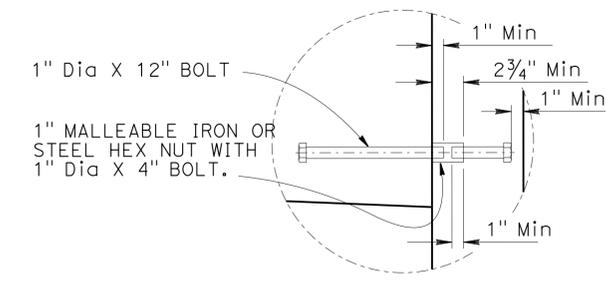
USERNAME => s125624 DATE PLOTTED => 18-MAY-2015 TIME PLOTTED => 14:07



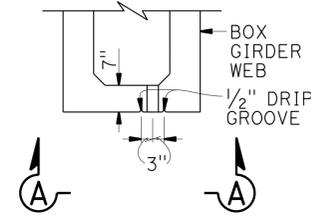
INTERMEDIATE DIAPHRAGM
1/2" = 1'-0"



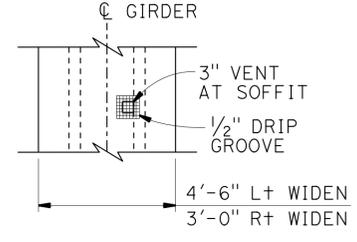
SECTION C-C
1/2" = 1'-0"



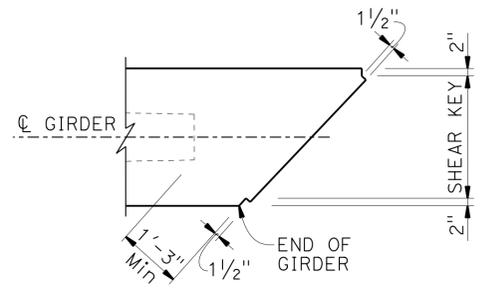
INSERT ASSEMBLY
1/2" = 1'-0"



VENT DETAIL
1/2" = 1'-0"



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



PLAN-END DIAPHRAGM
1/2" = 1'-0"

NOTE:
Right Widen shown, Left Widen similar

PRESTRESSING NOTES (PRETENSIONING)

Number of prestressing strands based on:
 Strand Size = $\phi 0.6$
 $F_{pu} = 270$ ksi, low relaxation strands.
 Strand Prestressing tensile stress = 202.5 ksi
 Concrete Strength: $f'_{ci} = 4.8$ ksi @ time of stressing,
 $f'_c = 6.0$ ksi @ 28 days
 Deflection components: informational - to be used in setting screed line elevations
 Screed line elevation for deck concrete will be determined
 Debonded strands shall be placed symmetrically along C of girders. Debonded length shall be 10'-0" from end of the girders.

NOTES:

- Minimum of two vents per span in each precast girder. Both vents to be located at 12' from inside face of girder.

LEGEND OF LOAD TYPE FOR DEFLECTION:

Pretensioning:
-Estimated Prestressing deflection at release due to prestressing only.

Girder:
-Precast girder deflection at release due to selfweight.

CIP Deck:
-Deflection of composit girder due to cast in place deck, overhang and intermediate diaphragm after removal temporary support

Post tensioning:
-Estimated Post tensioning deflection of composit girder due to the effect of post tensioning after removal of temporary support.

Sound wall:
-Deflection of composit girder due to bridge barrier, sound wall and closure pour.

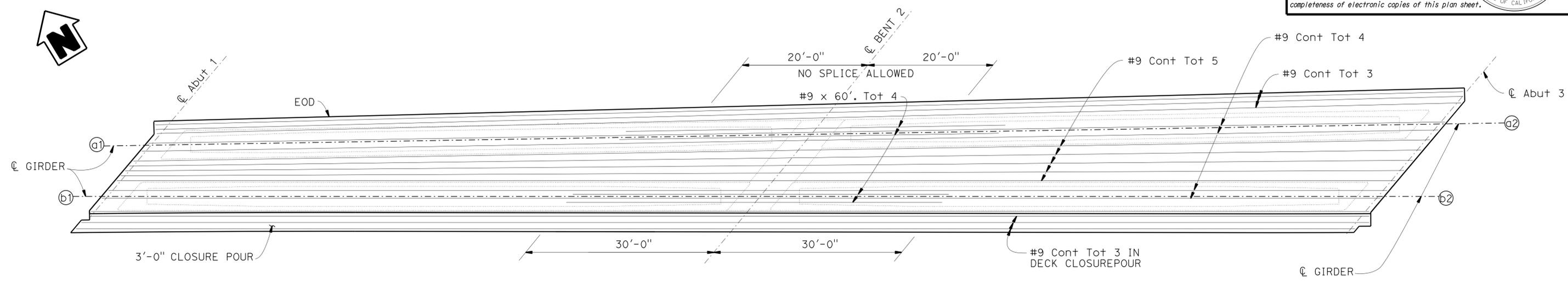
Girder		Length "L"	Number of strands		Deflection @ mid span (In)					
Location	Designation		Top	Bottom	Load Pretensioning	Girder	CIP Deck	Post Tensioning	Sound Wall	
			Bonded	Debonded						
Span 1	a ₁	98'-7 ³ / ₈ "	-	14	4	0.64	-1.02	-0.19	1.06	-1.09
Span 1	b ₁	97'-5 ³ / ₈ "	-	14	4	0.64	-1.01	-0.19	1.06	-0.31
Span 1	c ₁	105'-2 ¹ / ₄ "	-	14	4	1.06	-1.58	-0.32	1.53	-1.13
Span 1	d ₁	102'-8 ³ / ₈ "	-	14	4	1.00	-1.42	-0.24	1.51	-1.45
Span 2	a ₂	93'-5 ¹ / ₂ "	-	14	4	0.58	-0.82	-0.15	0.93	-0.75
Span 2	b ₂	91'-11 ¹ / ₈ "	-	14	4	0.58	-0.82	-0.14	0.93	-0.37
Span 2	c ₂	94'-5 ³ / ₄ "	-	14	4	0.84	-1.00	-0.20	1.25	-0.51
Span 2	d ₂	96'-11 ³ / ₈ "	-	14	4	0.87	-1.10	-0.19	1.38	-0.62

NOTE:
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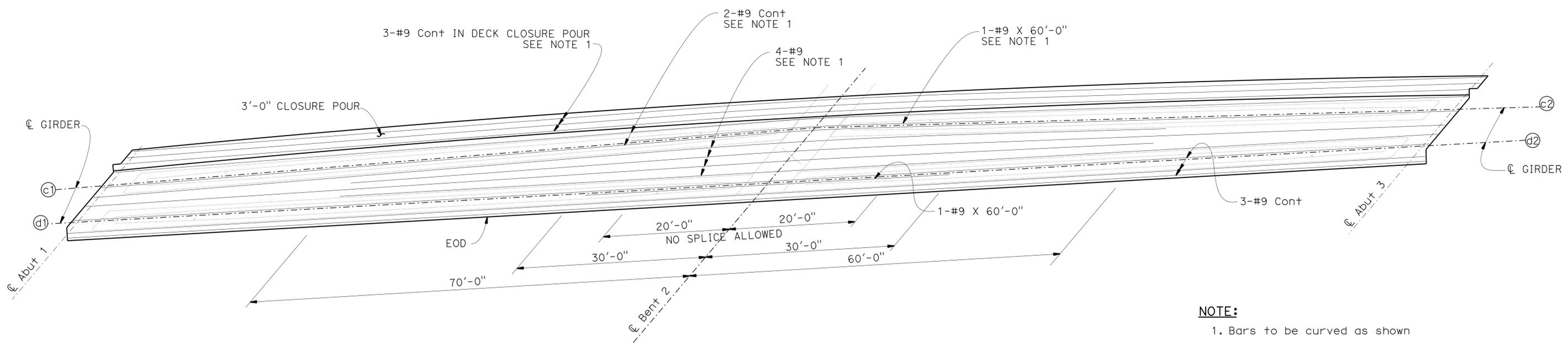
DESIGN BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. 53-0671	HOLT AVENUE UNDERCROSSING (WIDEN) PRECAST GIRDER DETAILS NO. 3
DETAILS BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku		DESIGN BRANCH 20	POST MILE 38.97	
QUANTITIES BY Sharareh Bikae	CHECKED Edward B. Mu				

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1 CONTRACT NO.: 07-1193U1
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 9-08-13, 9-24-13, 6-17-15
 SHEET 21 OF 42

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1642	2313
Dawit Tadelle Esq REGISTERED CIVIL ENGINEER			10/01/14 DATE		
6-1-15 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.		



TOP LONGITUDINAL REINFORCEMENT (LEFT WIDEN)
 $\frac{1}{8}'' = 1'-0''$



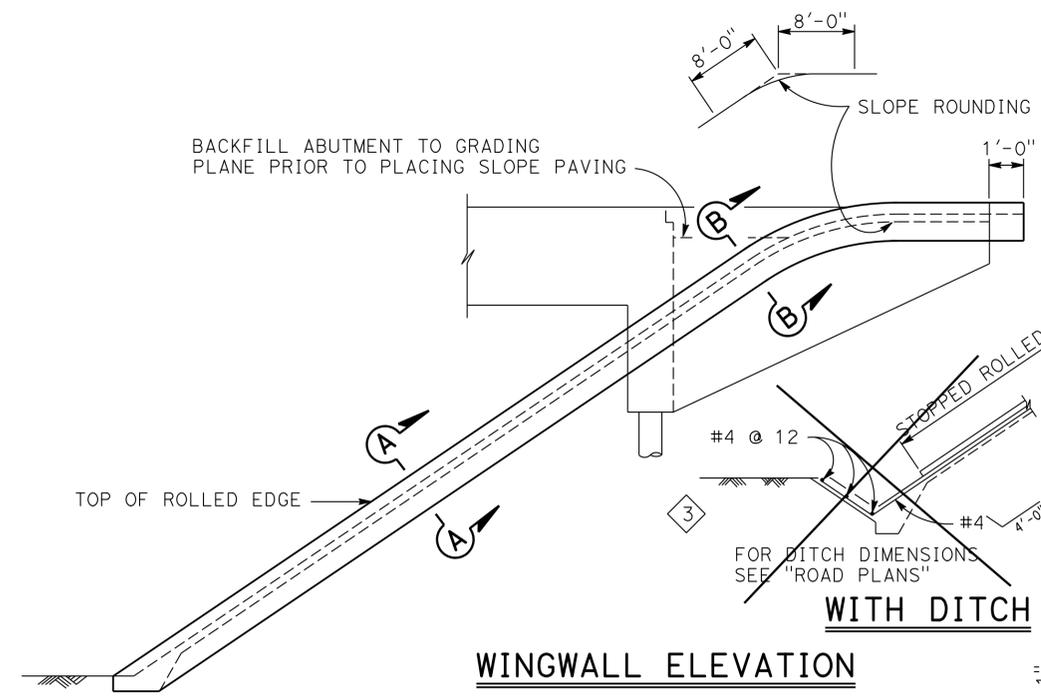
TOP LONGITUDINAL REINFORCEMENT (RIGHT WIDEN)
 $\frac{1}{8}'' = 1'-0''$

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

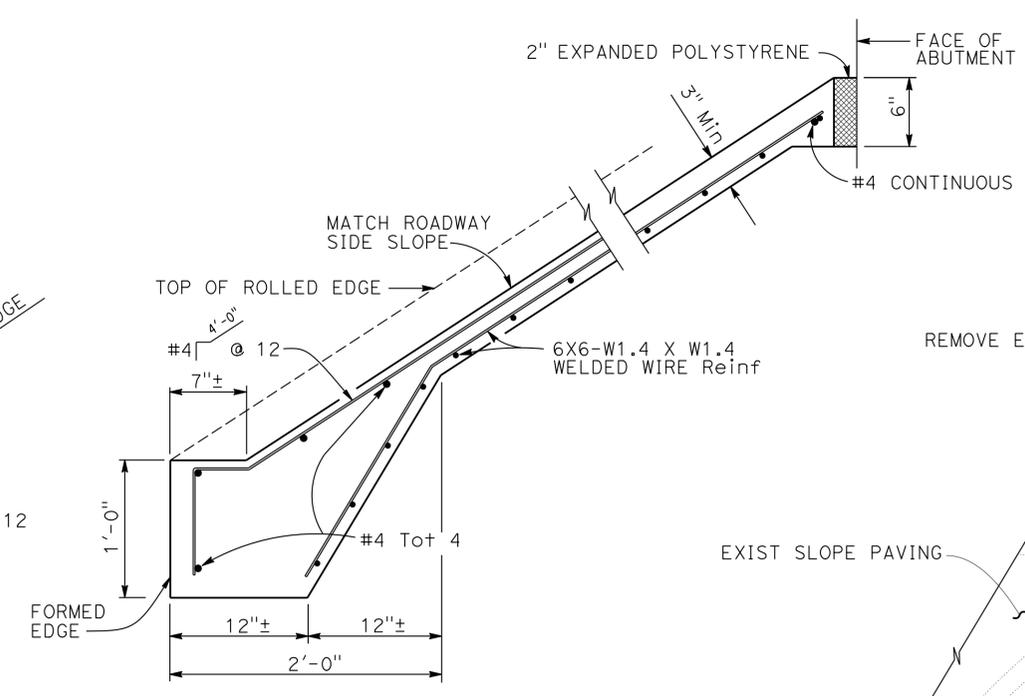
NOTE:
 1. Bars to be curved as shown

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	53-0671	HOLT AVENUE UNDERCROSSING (WIDEN) GIRDER REINFORCEMENT
	DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku			POST MILE	38.97	
	QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu			UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1	CONTRACT NO.: 07-1193U1	
						REVISION DATES	SHEET 22	OF 42

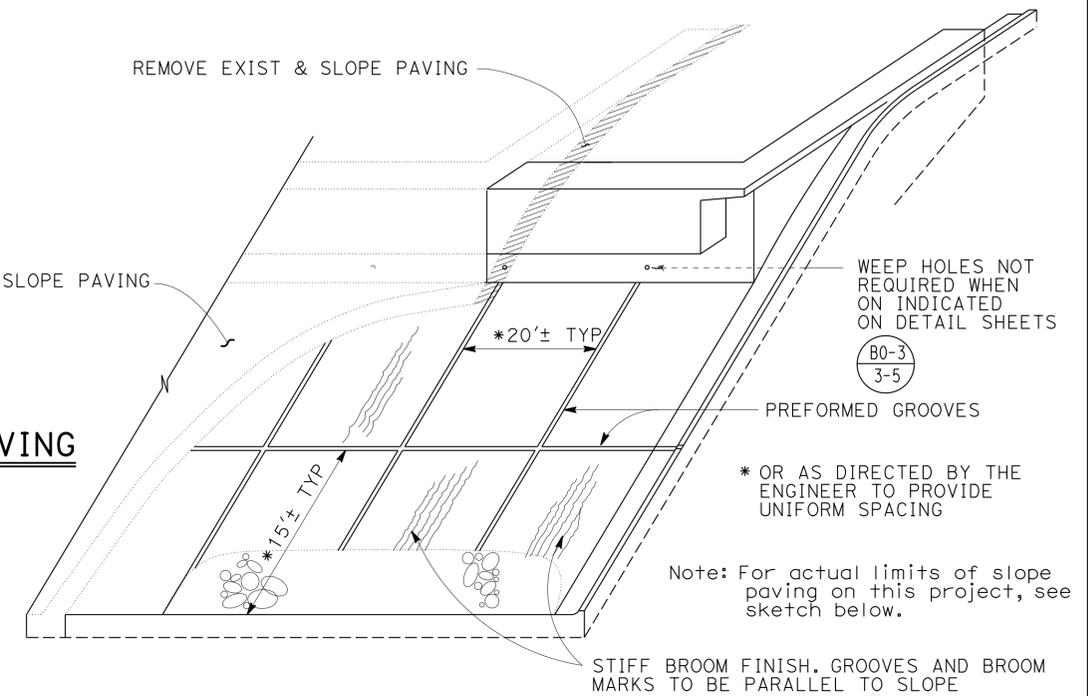
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1643	2313
<i>Davit Tadelle Esq</i> REGISTERED CIVIL ENGINEER			10/01/14 DATE		
6-1-15 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



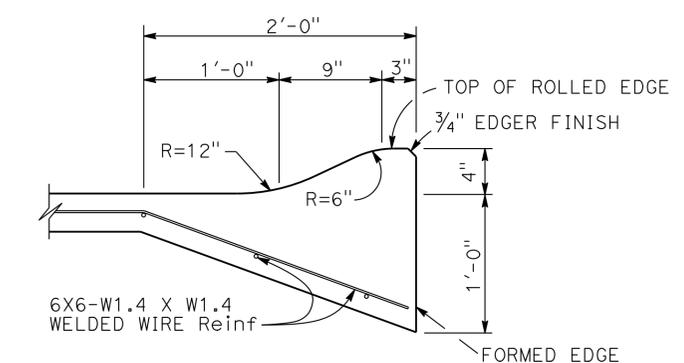
WINGWALL ELEVATION



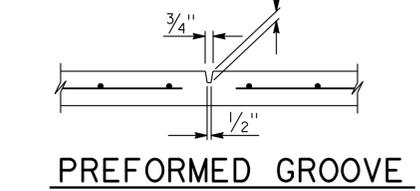
TYPICAL SECTION - CONCRETE PAVING



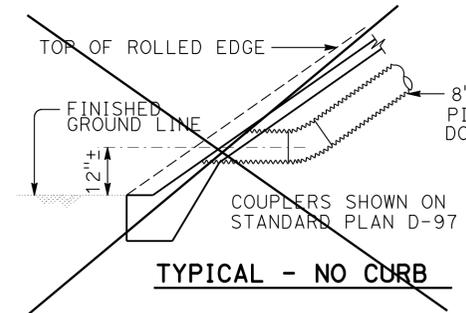
PICTORIAL VIEW OF TYPICAL INSTALLATION



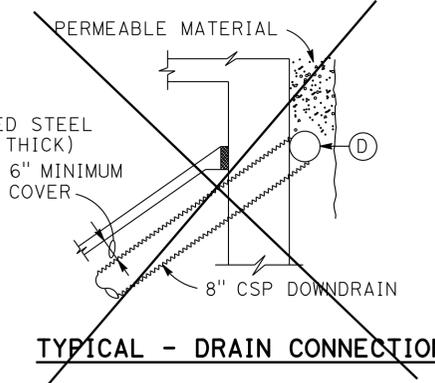
SECTION A-A



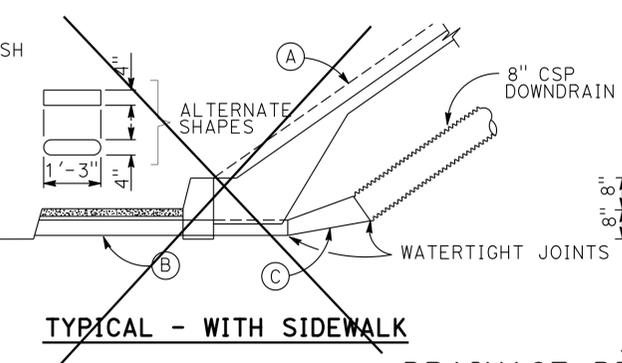
PREFORMED GROOVE



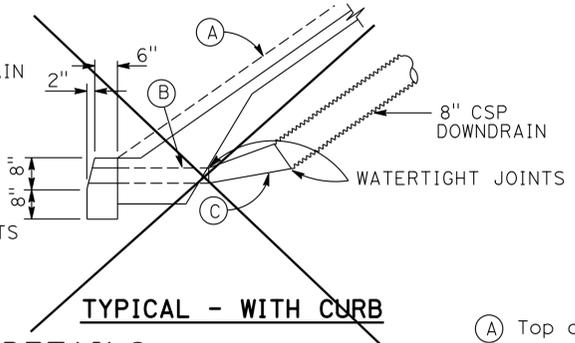
TYPICAL - NO CURB



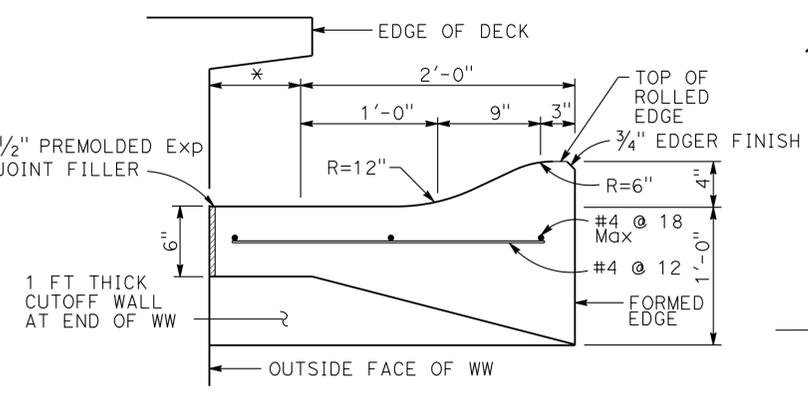
TYPICAL - DRAIN CONNECTION



TYPICAL - WITH SIDEWALK



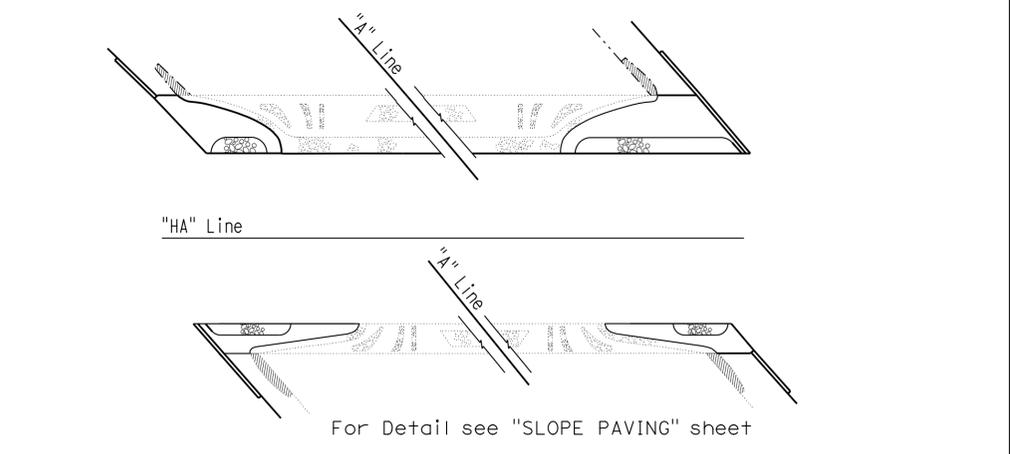
TYPICAL - WITH CURB



SECTION B-B



DRAINAGE DETAILS



LIMITS OF SLOPE PAVING & DRAINAGE LAYOUT

* THIS DIMENSION BECOMES ZERO WHEN EDGE OF DECK IS AT OUTSIDE FACE OF WW

REVISED STANDARD DRAWING	
FILE NO. xs4-210	APPROVAL DATE <u>July 2011</u>

1 Modified Detail	3 Deleted Detail
2 Added Detail	4 Deleted Legend

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES
---	----------------------------------

BRIDGE NO. 53-0671	HOLT AVENUE UNDERCROSSING (WIDEN)	
POST MILE 38.97	SLOPE PAVING-FULL SLOPE	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1644	2313

JOINT SPALL REPAIR TABLE

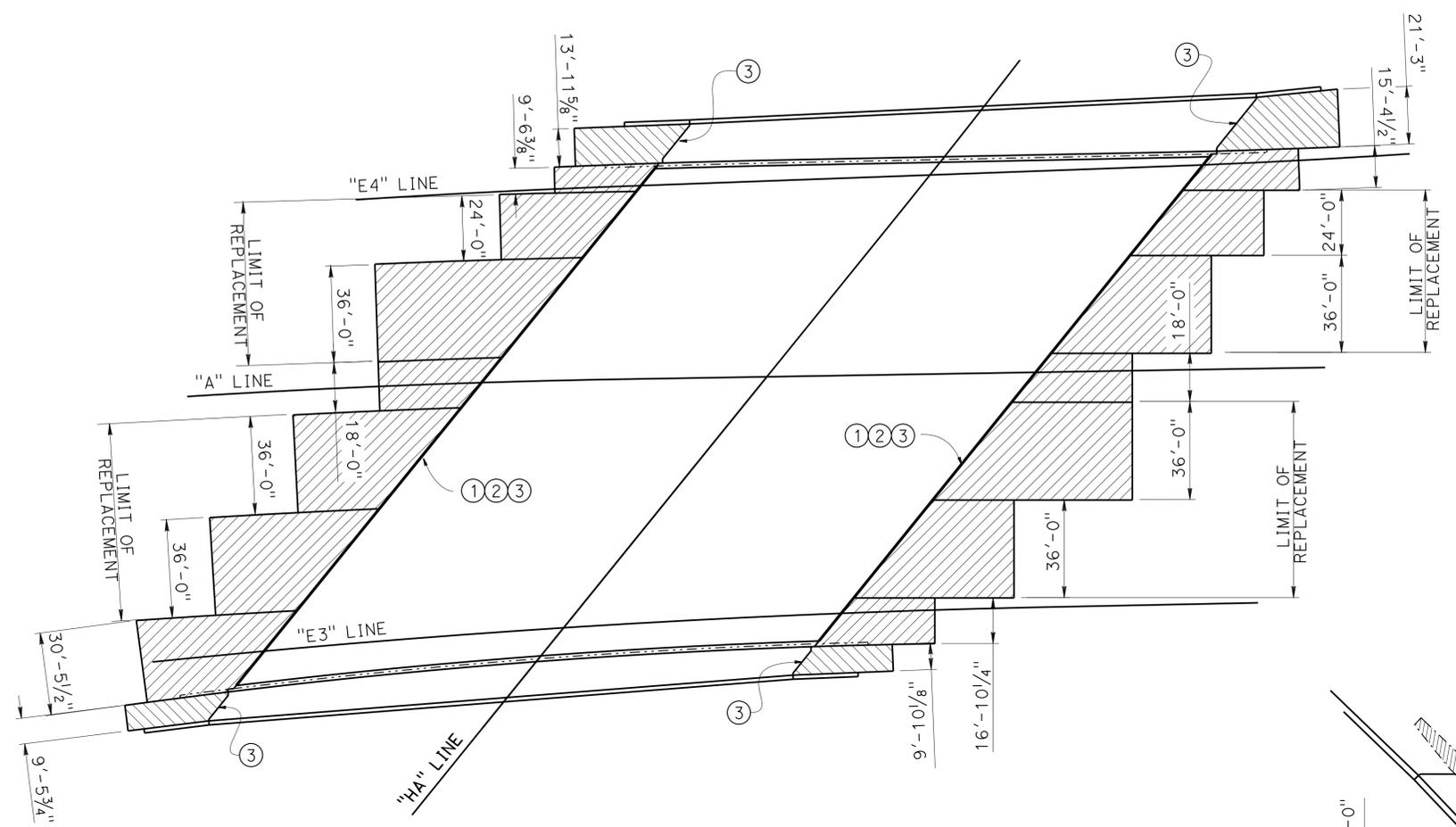
LOCATION	APPROX DEPTH OF JOINT SPALLS (Inch)	APPROX WIDTH OF JOINT SPALLS (Inch)	APPROX LENGTH OF JOINT SPALLS (FEET)
ABUT 1	3	6	8
ABUT 2	3	6	8

Dawit Tadelle 10/01/14
 REGISTERED CIVIL ENGINEER DATE

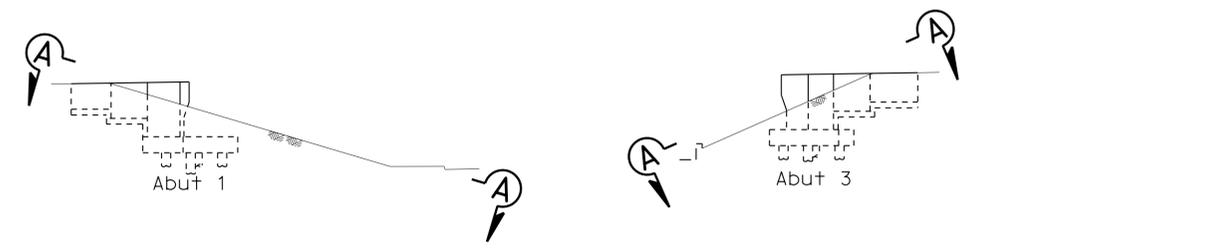
6-1-15
 PLANS APPROVAL DATE

Dawit T Worku
 No. C60711
 Exp 12-31-14
 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.



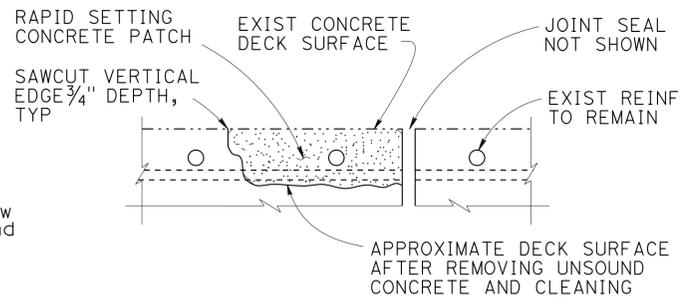
LIMIT OF STRUCTURE APPROACH
 1" = 30'



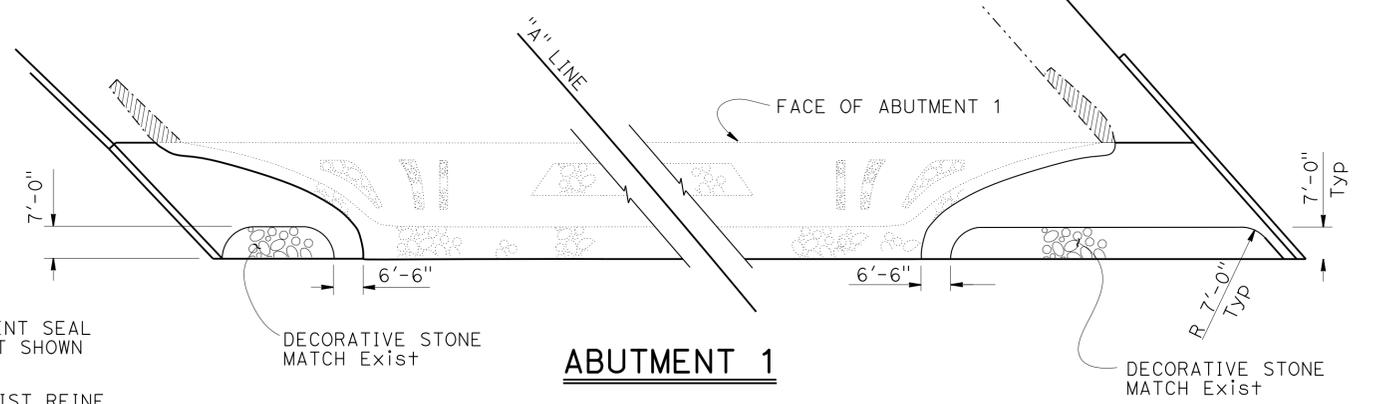
TYPICAL SECTION
 NO SCALE

- LEGEND:**
- R(30D)
 - N(30D)
 - Bridge removal (portion)
 - Existing Decorative Stone
 - New Decorative Stone
 - Joint Seal removal and replace with new Joint Seal.
 - Indicates new Structure
 - Indicates existing Structure

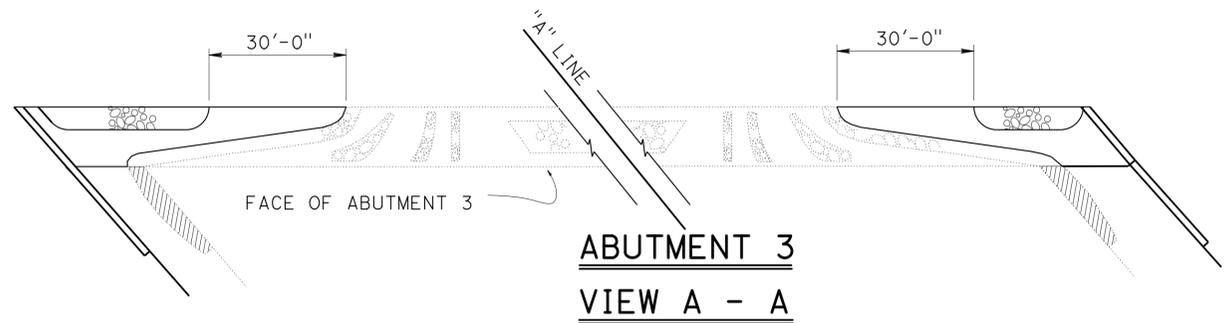
- NOTE:**
- ① Paving Notch Extension
 - ② Prior to placement of new joint seal, remove unsound concrete and patch with rapid setting concrete
 - ③ Joint Seal MR = 1/2



JOINT SPALL REPAIR DETAIL
 REINFORCEMENT MAY BE ENCOUNTERED DURING DECK CONCRETE REMOVAL AND IS TO REMAIN UNDAAGED. LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 NO SCALE



ABUTMENT 1



ABUTMENT 3
 VIEW A - A

SLOPE PAVING LIMIT
 NO SCALE

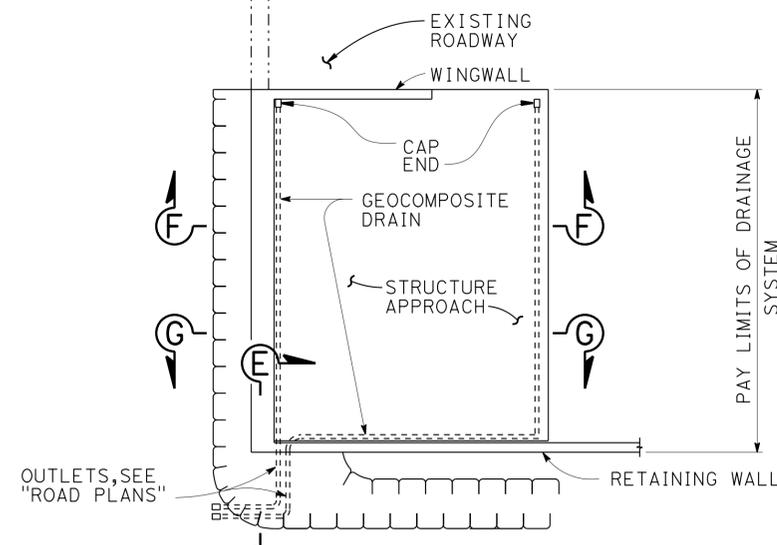
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. 53-0671	HOLT AVENUE UNDERCROSSING (WIDEN) SLOPE PAVING
DETAILS BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku		DESIGN BRANCH 20	POST MILE 38.97	
QUANTITIES BY Sharareh Bikae	CHECKED Edward B. Mu				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3622 PROJECT NUMBER & PHASE: 071300007-1	CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES
			REVISION DATES	SHEET 24	OF 42

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37./42.4	1645	2313

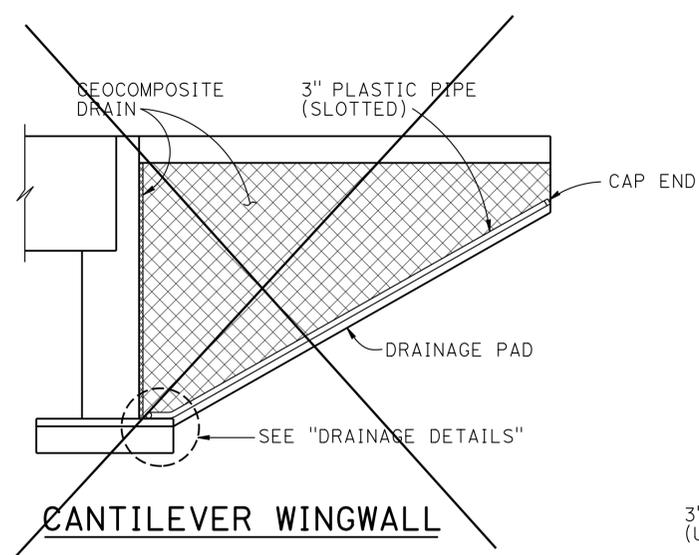
Davit Tadelle Esq 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 Davit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA

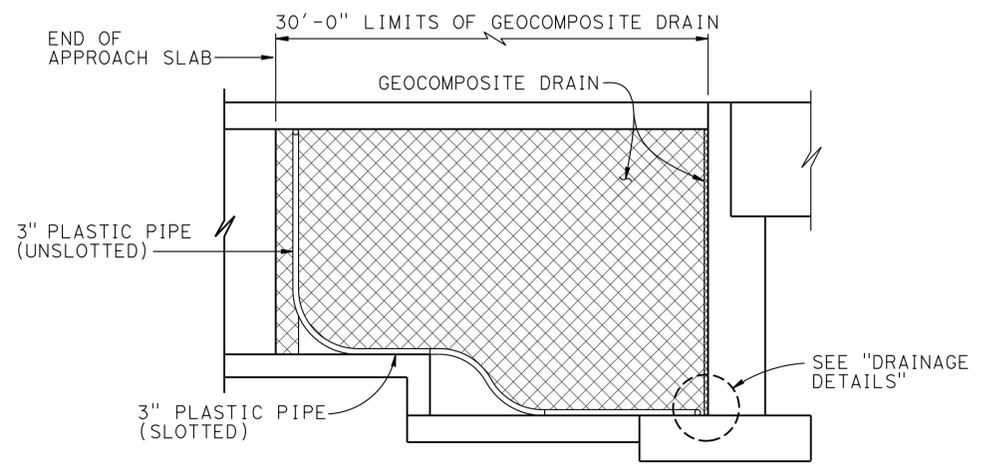


TYPICAL PLAN
1" = 10'

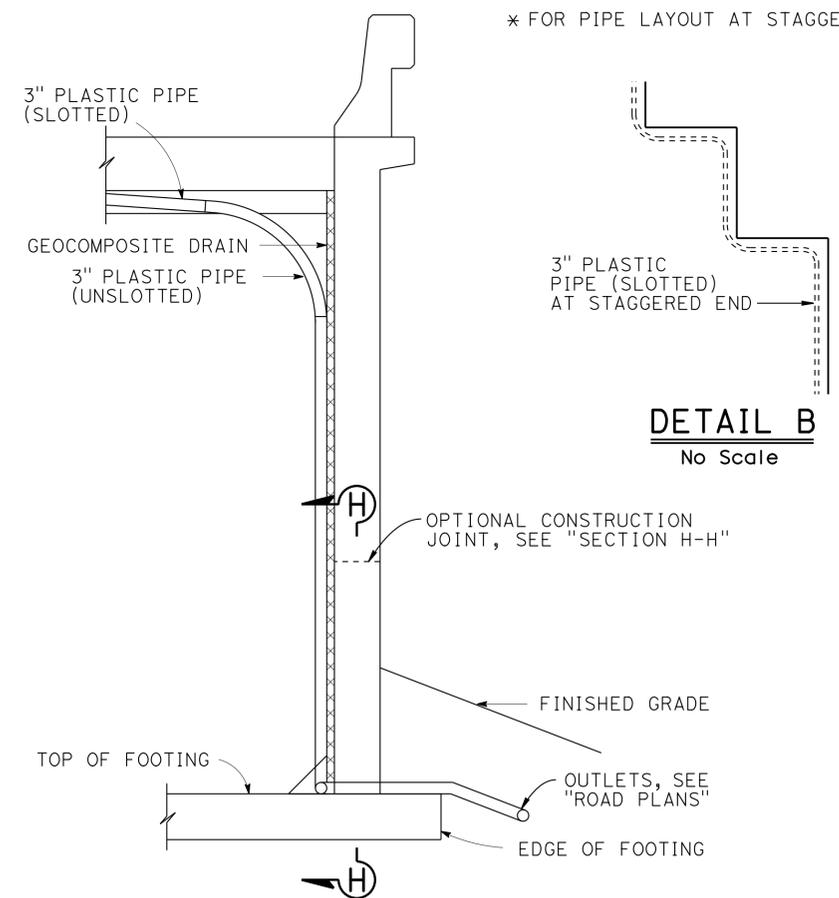
* FOR PIPE LAYOUT AT STAGGERED END, SEE "DETAIL B"



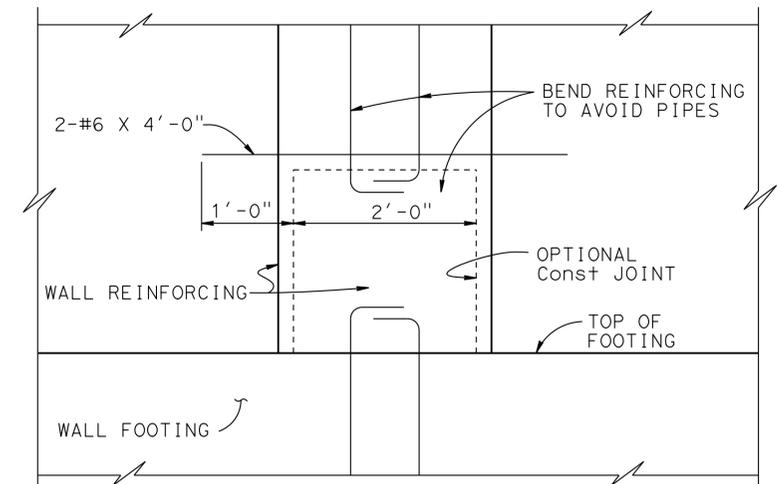
CANTILEVER WINGWALL
SECTION F-F
1/4" = 1'-0"



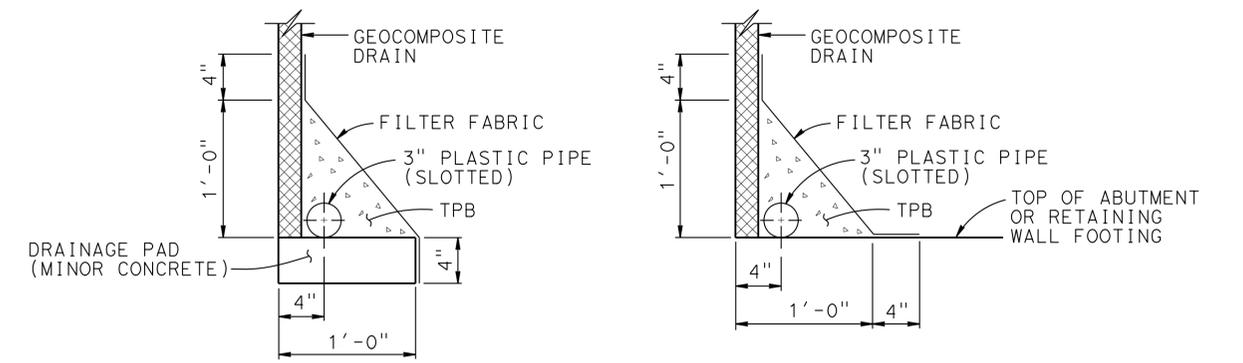
RETAINING WALL WINGWALL DRAINAGE DETAILS
SECTION G-G
1/4" = 1'-0"



DETAIL B
No Scale



SECTION H-H
1" = 1'-0"



WITHOUT FOOTING **WITH FOOTING**
DRAINAGE DETAILS
1 1/2" = 1'-0"

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

NOTE: Bends and junctions in 3" plastic pipe are 30" radius Min

REVISED STANDARD DRAWING	
FILE NO. xs3-110	APPROVAL DATE <u>July 2011</u>

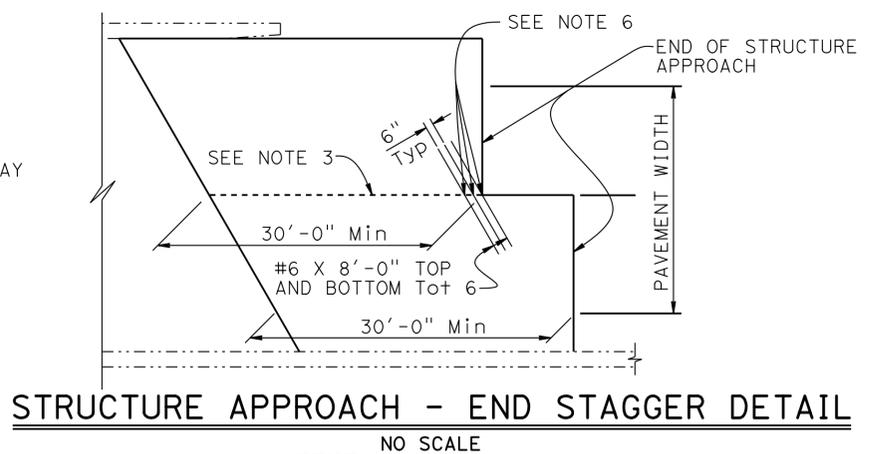
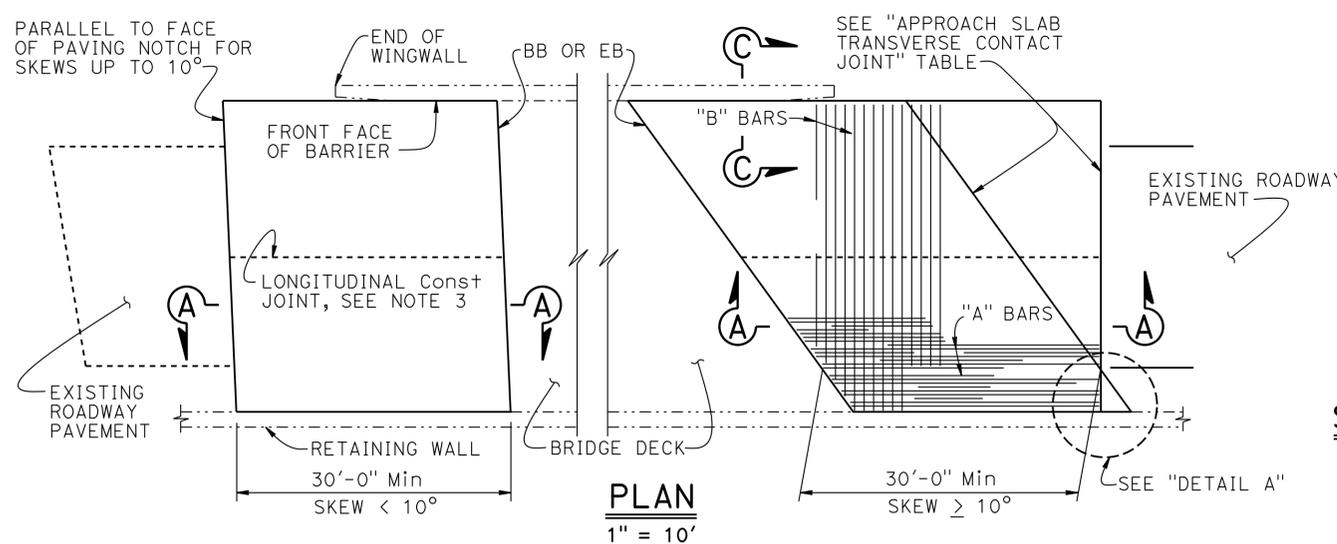
1	Modified Detail
2	Deleted Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

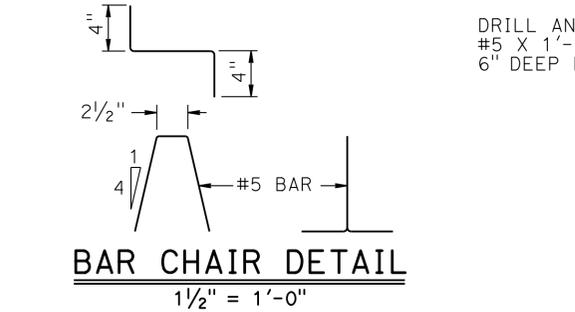
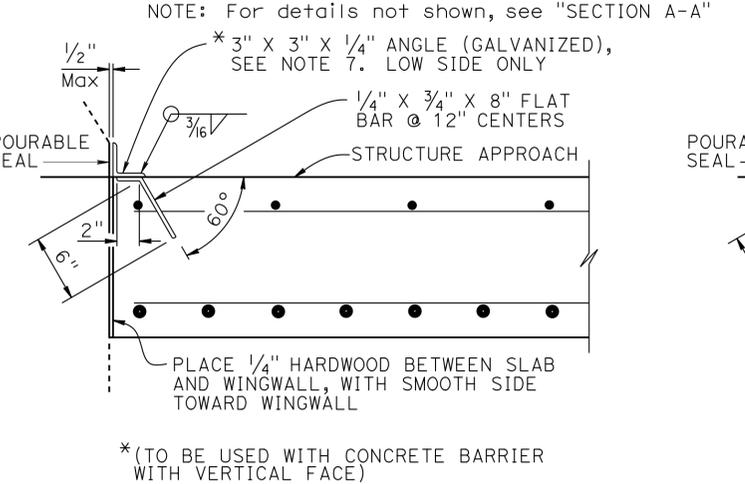
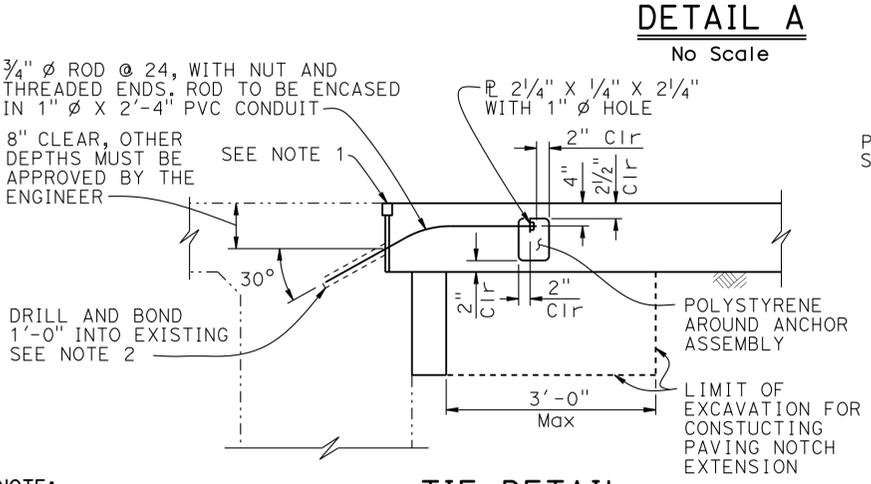
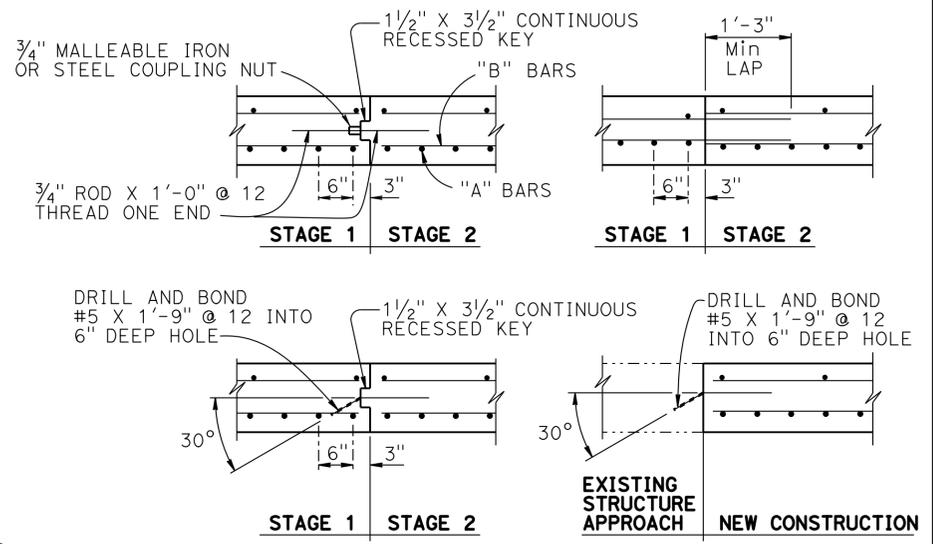
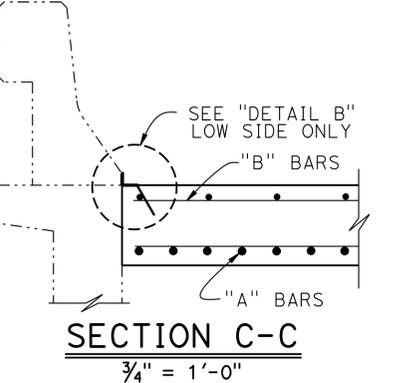
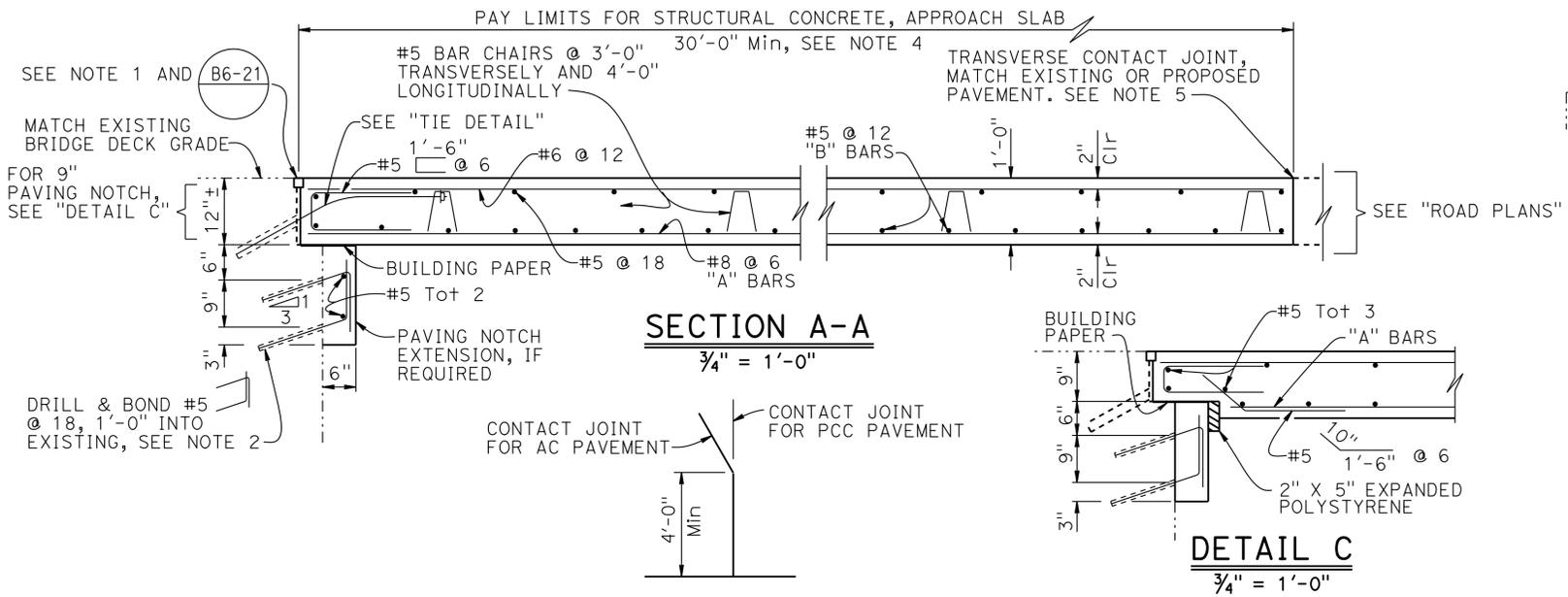
DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53-0671
POST MILE 38.97

HOLT AVENUE UNDERCROSSING (WIDEN)
STRUCTURE APPROACH DRAINAGE DETAILS



APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PAVING NOTCH
10° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE



- NOTES:
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
 - Space to avoid existing prestress anchorages and main reinforcement
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines
 - Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10
 - Couplers are required for stage construction
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable

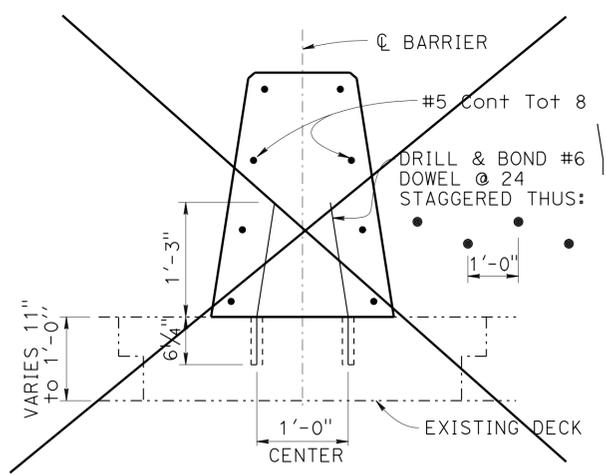
NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STANDARD DRAWING	FILE NO. xs3-150	APPROVAL DATE July 2011
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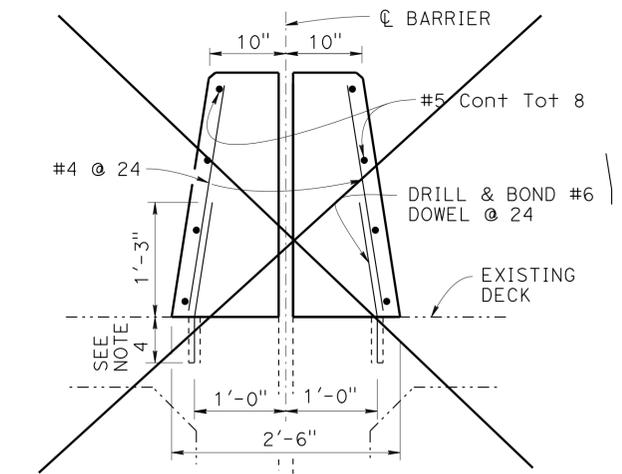
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 53-0671 POST MILE 38.97	HOLT AVENUE UNDERCROSSING (WIDEN) STRUCTURE APPROACH TYPE R(30D)
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UNIT: 3622 PROJECT NUMBER & PHASE: 071300007-1	CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 27 OF 42
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1648	2313
<i>Davit T Worku</i> REGISTERED CIVIL ENGINEER			10/01/14	DATE	
6-1-15			PLANS APPROVAL DATE		
Dawit T Worku No. C60711 Exp 12-31-14 CIVIL STATE OF CALIFORNIA			REGISTERED PROFESSIONAL ENGINEER		
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.					

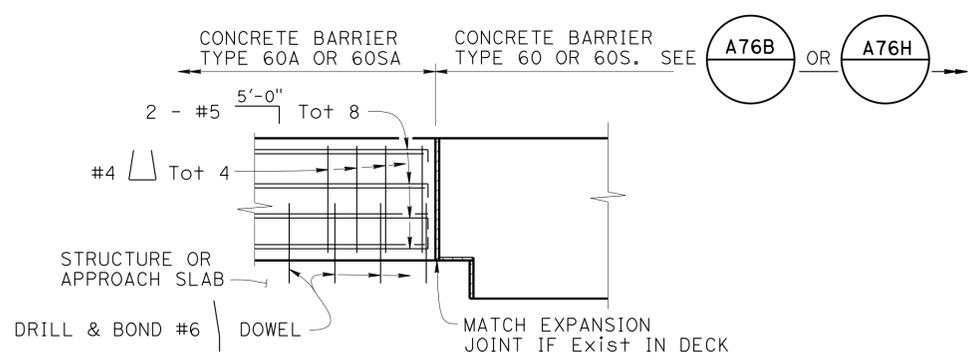


MODIFIED TYPE 60A.1 OR 60SA.1

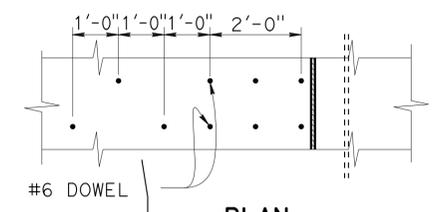


MODIFIED TYPE 60A.4 OR 60SA.4

ONLY VERTICAL DIMENSION VARIES ACCORDING TO RESPECTIVE BARRIER HEIGHT. SEE NOTE 9.

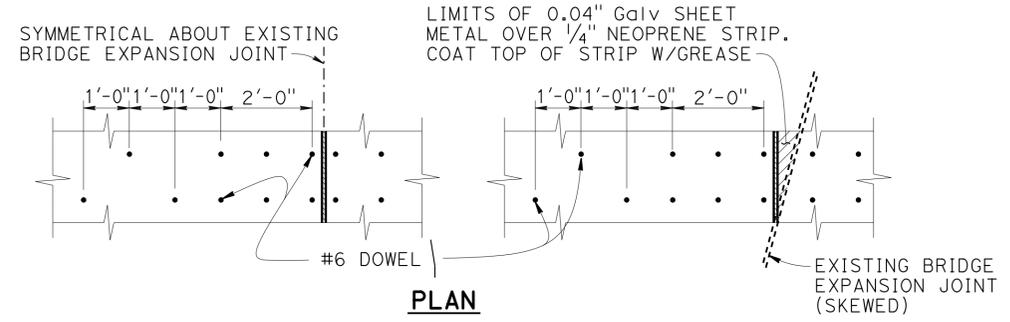


ELEVATION



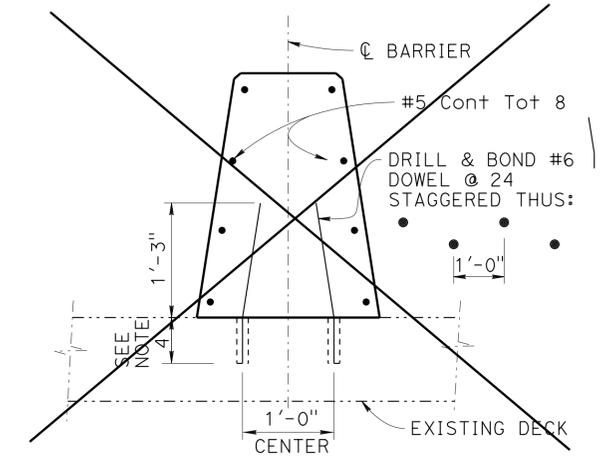
PLAN CONNECTION TO STRUCTURE

$\frac{1}{2}'' = 1'-0''$

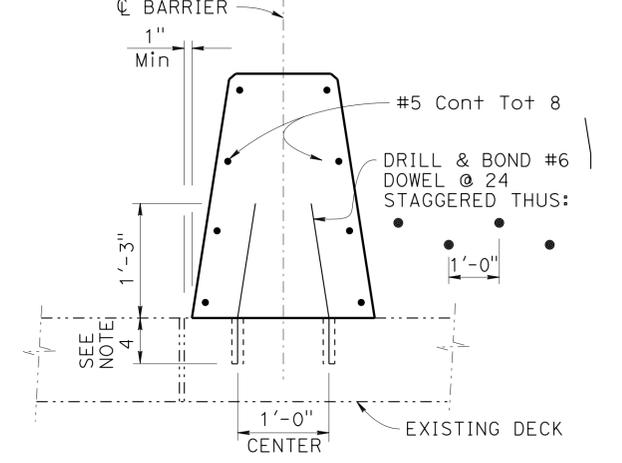


PLAN DOWEL SPACING AT EXPANSION JOINT

$\frac{1}{2}'' = 1'-0''$

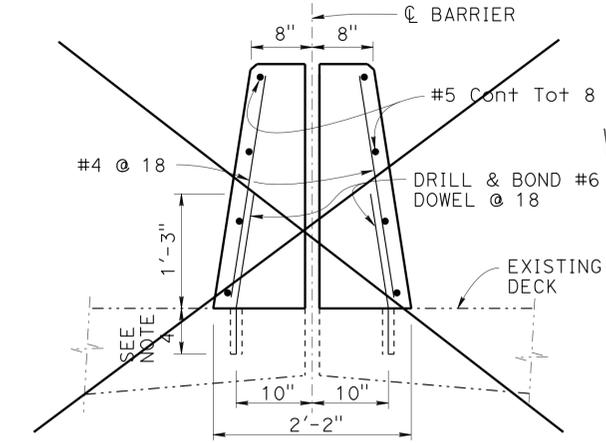
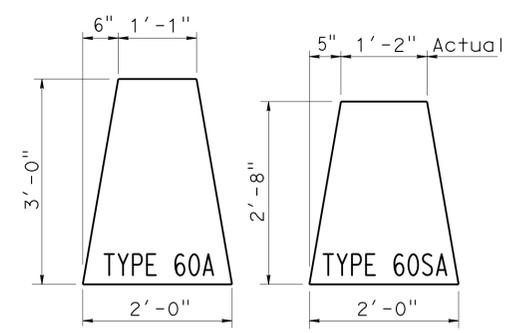


MODIFIED TYPE 60A.2 OR 60SA.2



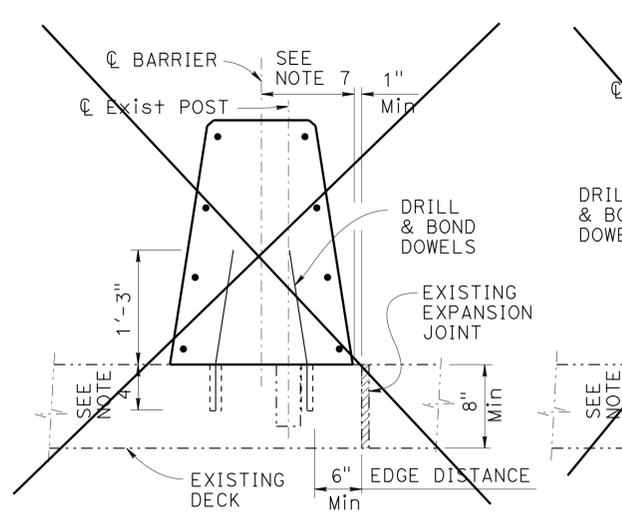
MODIFIED TYPE 60A.5 OR 60SA.5

- NOTES:
1. Transverse expansion joints in concrete barrier shall match all deck joints
 2. Remove all existing curbs and dikes
 3. Existing components of Cable Barrier may be altered and incorporated in Concrete Barriers as indicated. The existing Cable Barrier shall be removed when it is not on the centerline of the new Concrete Barrier
 4. Depth of drilled hole equals depth of slab minus 1/2", up to 6" maximum
 5. Minor adjustments may be made in dowel spacing to clear main reinforcement
 6. Transitions to match adjacent "Type 60A" Barrier shall have minimum flare of 20:1 off the structure
 7. Barrier to be doweled on either side of deck joints.
 8. For Concrete Barrier Type 60A details not shown, see STANDARD PLAN A76A. For Concrete Barrier Type 60SA details not shown, see STANDARD PLANS A76G.
 9. Barrier Dimensions-Type 60A & 60SA, see sketch below:



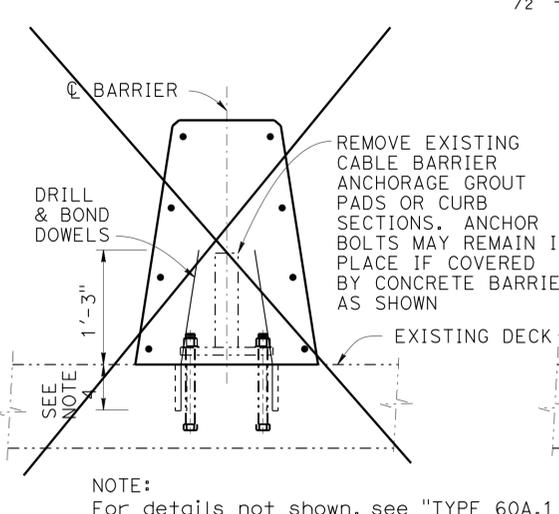
MODIFIED TYPE 60A.3 OR 60SA.3

ONLY VERTICAL DIMENSION VARIES ACCORDING TO RESPECTIVE BARRIER HEIGHT. SEE NOTE 9.

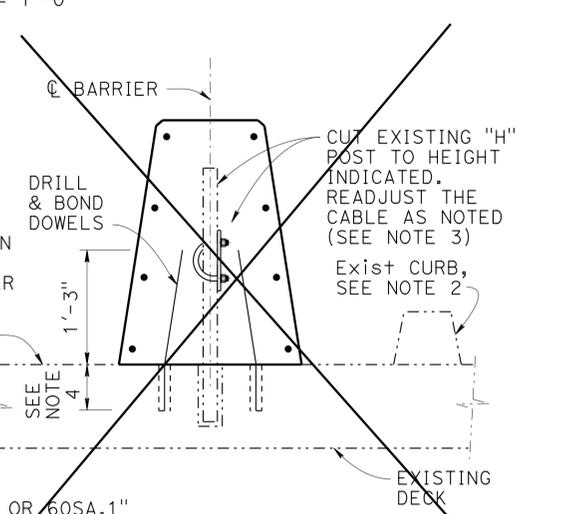


EXISTING POST HOLE AT BOLTED ANCHORAGE PLATE

AT BOLTED ANCHORAGE PLATE



AT POST HOLES



AT POST HOLES

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

NOTE:
For details not shown, see "TYPE 60A.1 OR 60SA.1"

EXISTING POST HOLE AT BOLTED ANCHORAGE PLATE AT POST HOLES

TYPE 1 TYPE 2 TYPE 3 ASSUMED EXISTING ANCHORAGE CONDITIONS AND DETAILS

LEGEND:
- - - - - Indicates existing structure
————— Indicates new structure

SCALE: 1" = 1'-0" except as noted

REVISED STANDARD DRAWING	
FILE NO. xs16-100	APPROVAL DATE <u>July 2011</u>

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES
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BRIDGE NO. 53-0671	HOLT AVENUE UNDERCROSSING (WIDEN)
POST MILE 38.97	
CONCRETE BARRIER TYPE 60A & TYPE 60SA MOD	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1649	2313

Dawit Tadelle Geza 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA

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GENERAL NOTES

- Note A: For type of block and joint finish, See other sheets.
- Note B: When blocks are laid in stacked bond, ladder type, galvanized joint reinforcement shall be provided. A minimum of 2 - 9 gauge wires continuous at 4'-0" maximum to be used. Locate reinforcement in joints that are at the approximate midpoint between bond beams.
- Note C: Horizontal joints shall be tooled concave or may be weathered. Vertical joints shall be tooled concave or may be raked.
- Note D: All masonry to be high strength unless otherwise noted.
- Note E: Concrete to be used for the barrier must contain not less than 590 pounds of cementitious material per cubic yard.
- Note F: Expansion joints in concrete barrier and masonry block to match deck joints and at ends of wing walls.
- Note G: Expansion joints in Soundwall (Masonry Block) shall be at each support, center of span, and at ends of wingwalls.
- Note H: For dimensions and reinforcement not shown see "Typical Section" sheet.

DESIGN NOTES

DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments and Uniform Building Code 1997
 CT = 54 kip maximum traffic impact loading evenly distributed over 10 feet at tip of the barrier and 1:1 distributed down and outward

DESIGN WIND LOAD

37 psf

DESIGN SEISMIC LOAD

2.0 Dead load

REINFORCED CONCRETE

f'c = 3.6 ksi
 fy = 60 ksi

CONCRETE MASONRY

HIGH STRENGTH
 f'm = 2500 psi
 fy = 60 kpsi

LOAD COMBINATION AND LIMIT STATES

SERVICE	Q = 1.0 Dc + 1.0 Dw + 0.3 Ws
STRENGTH I	Q = a Dc + 1.5 Dw + 1.75 U
STRENGTH III	Q = a Dc + a Dw + 1.4 Ws
STRENGTH V	Q = a Dc + a Dw + 0.3 Dw
EXTREME EVENT I	Q = 1.0 Dc + 1.0 Dw + 1.0 EOD
EXTREME EVENT II	Q = 1.0 Dc + 1.0 Dw + 0.5 LL + 1.0 CT

WHERE:

Q = FORCE EFFECT
 a = 1.25 OR 0.9, WHICHEVER CONTROL DESIGN
 Ws = WIND ON STRUCTURE
 Dc = DEAD LOAD STRUCTURE COMPONENT
 Dw = ADDED DEAD LOAD
 LL = LIVE LOAD
 EOD = SEISMIC DEAD LOAD
 CT = VEHICULAR COLLISION FORCE

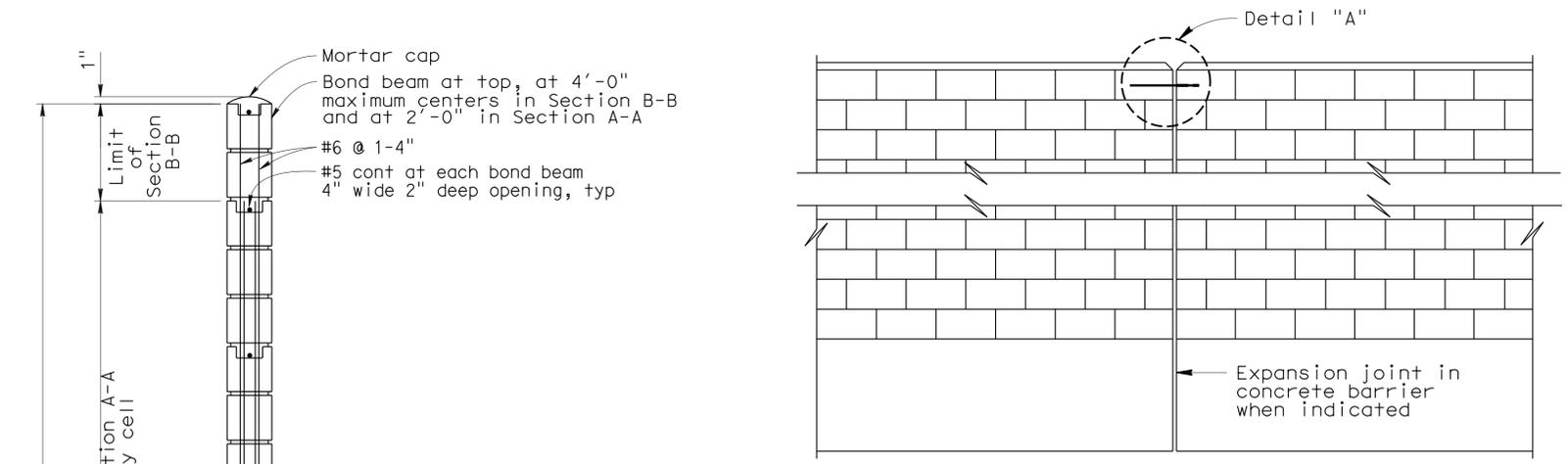
STRENGTH REDUCTION FACTORS, φ

Reinforced concrete:
 For flexure φ=0.90
 For shear φ=0.85

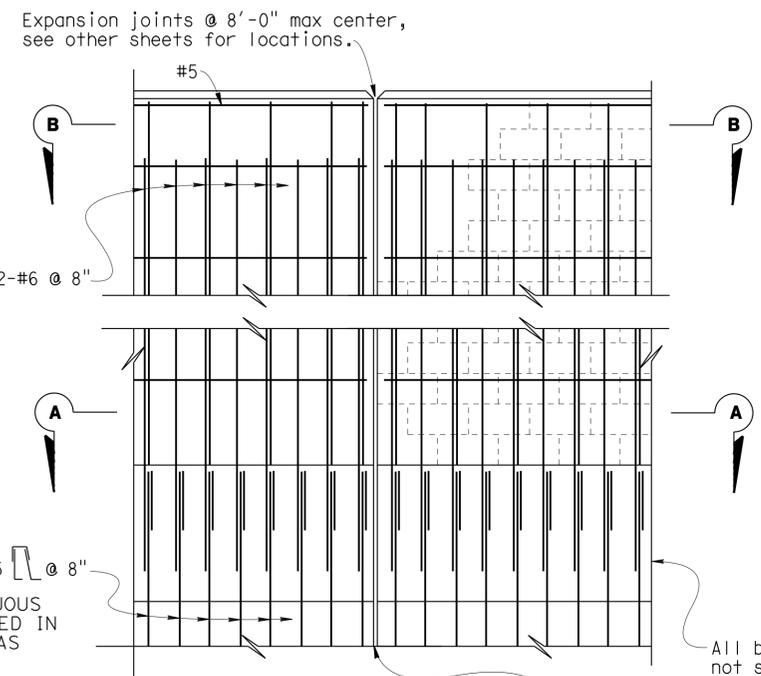
Concrete masonry:
 For flexure φ=0.80
 For shear φ=0.60

Note 1:

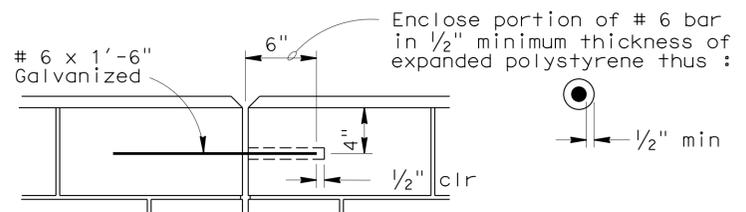
Barrier, Deck and Concrete Masonry are designed by the Strength Design Method.



ALIGNMENT KEY DETAIL

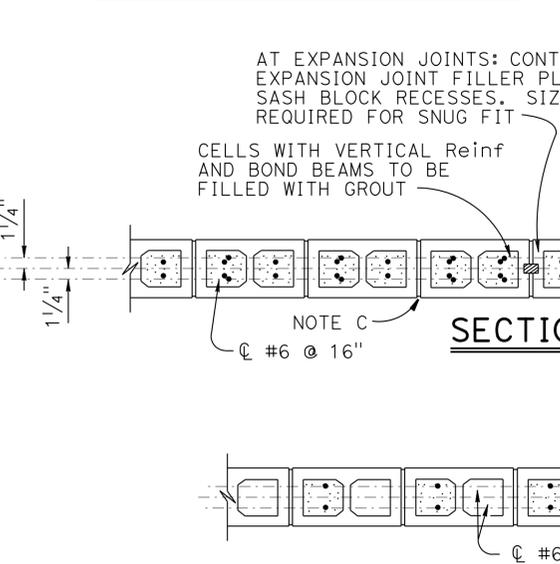


DECK AND WALL JOINT ELEVATION



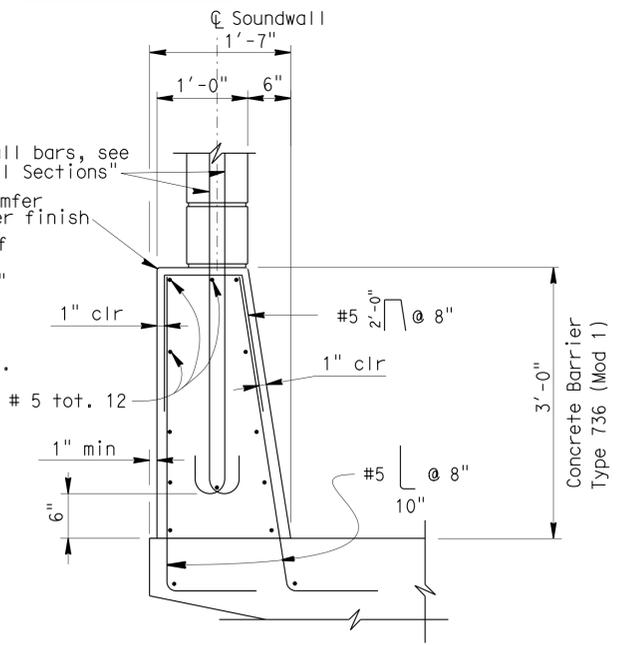
DETAIL A

SOUNDWALL SECTION



SECTION A-A

SECTION B-B



BARRIER SECTION

NOTE:
 For dimensions and reinforcement not shown, see RSP B11-56

DESIGN	BY Sharareh Bikae	CHECKED Jason Fang
DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang
QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

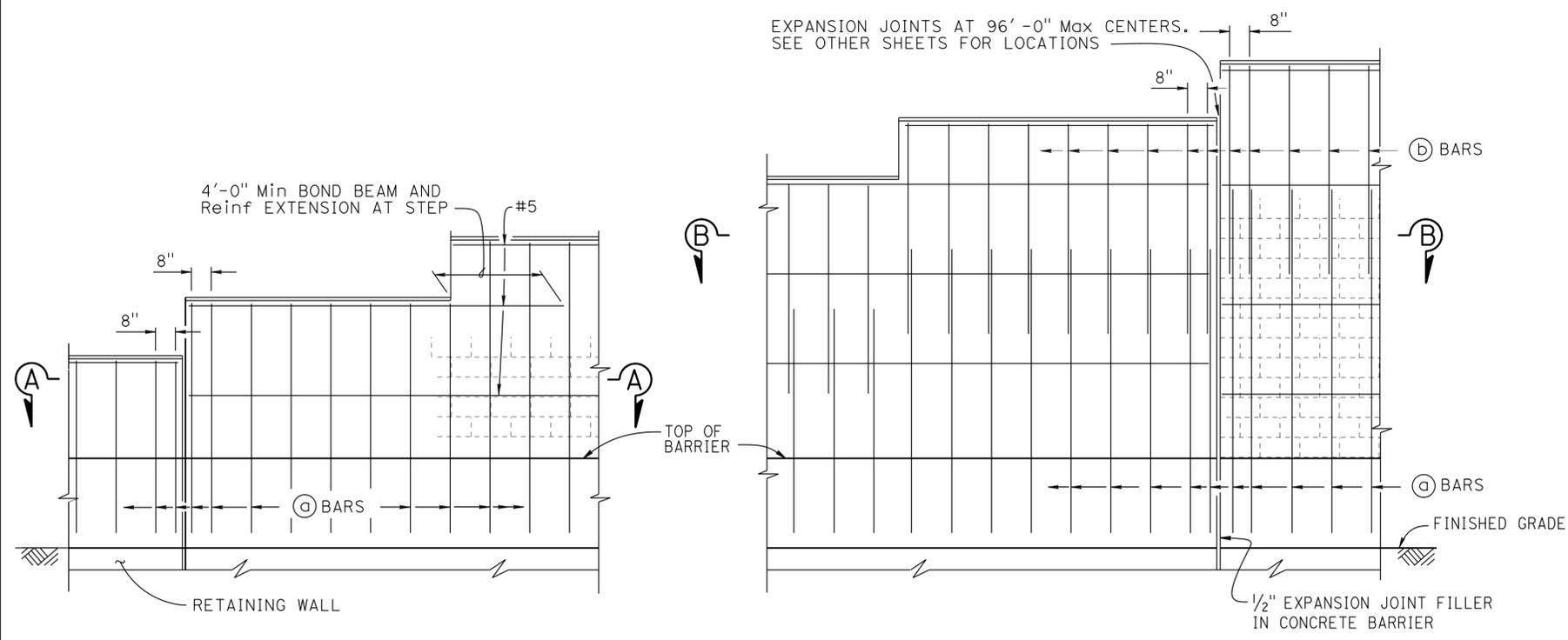
BRIDGE NO.	53-0671
POST MILE	38.97

HOLT AVENUE UNDERCROSSING (WIDEN)
SOUNDWALL - MASONRY BLOCK ON BRIDGE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1650	2313

Dawit Tadelle Esq. 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA
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EXPANSION JOINTS AT 96'-0" Max CENTERS.
SEE OTHER SHEETS FOR LOCATIONS

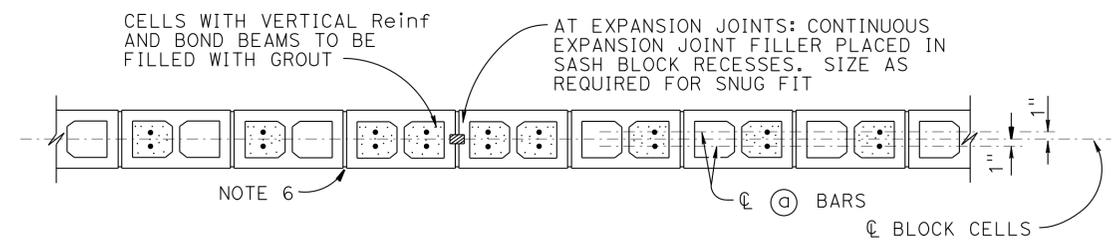


H=6'-4" THRU H=10'-4"

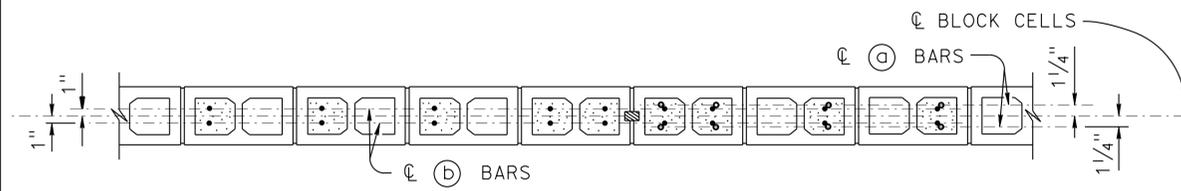
H=12'-4" THRU H=16'-4"

PART ELEVATION

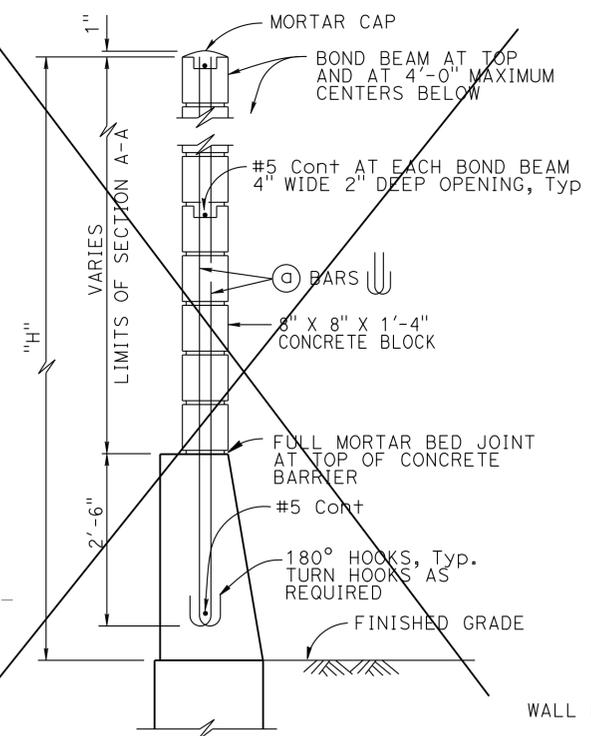
MAXIMUM "H"	(a) BARS @ 1'-4" Max	(b) BARS @ 1'-4" Max	"Y"	f'm (psi)	COMPRESSIVE STRENGTH OF CMU (psi)	MAXIMUM "H"
6'-4"	#4	---	---	1500	1900	6'-4"
8'-4"	#4	---	---	1500	1900	8'-4"
10'-4"	#4	---	---	1500	1900	10'-4"
12'-4"	#5	#4	5'-0"	1500	1900	12'-4"
14'-4"	#6	#4	7'-0"	1500	1900	14'-4"
16'-4"	#6	#4	9'-0"	2500	3700	16'-4"



SECTION A-A



SECTION B-B

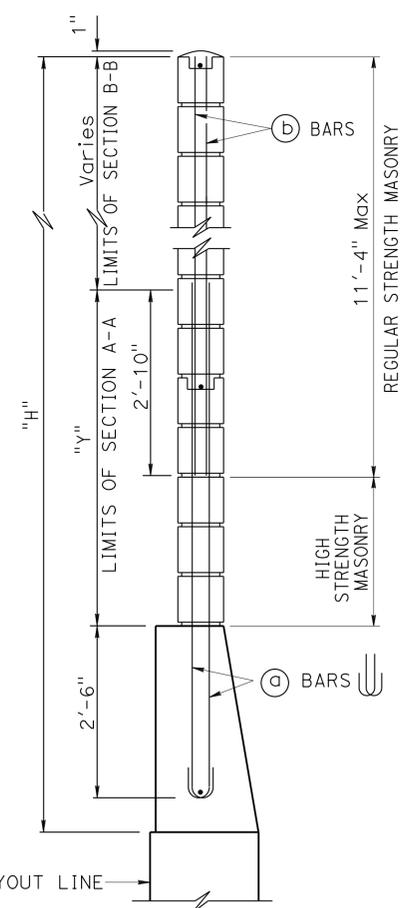


H=6'-4" THRU H=10'-4"

H=12'-4" THRU H=16'-4"

For details not shown, see H=12'-4" thru H=16'-4" For details not shown, see H=6'-4" thru H=10'-4"

TYPICAL SECTION



NOTES:

- For details not shown, see "SOUND WALL - MASONRY BLOCK WITH BARRIER ON RETAINING WALL - DETAILS NO. 2" sheet
- Slope ground at traffic side of barrier to drain. Maximum slope ±10%
- See STANDARD PLANS B15-9 for other details
- For type of block and joint finish, see other sheets
- When blocks are laid in stacked bond, ladder type, galvanized joint reinforcement shall be provided. A minimum of 2-9 gauge wire continuous at 4'-0" maximum to be used. Locate reinforcement in joints that are at the approximate midpoint between bond beams
- Horizontal joints shall be tooled concave or may be weathered. Vertical joints shall be tooled concave or may be raked
- For intermediate wall heights that are between the "H's" given, use the tabular information for the next higher "H"
- Masonry strengths are listed in "SOUND WALL REINFORCEMENT TABLE"
- Concrete to be used for the barrier shall contain not less than 590 pounds of cementitious material per cubic yard

NO SCALE

HOLT AVENUE UNDERCROSSING (WIDEN)

MASONRY BLOCK SOUND WALL WITH BARRIER ON RETAINING WALL

DETAILS NO. 1

REVISED STANDARD DRAWING

FILE NO. **xs15-130-1**

APPROVAL DATE July 2012

Delete Details

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53-0671
POST MILE 38.97

UNIT: 3622
PROJECT NUMBER & PHASE: 0713000007-1
CONTRACT NO.: 07-1193U1

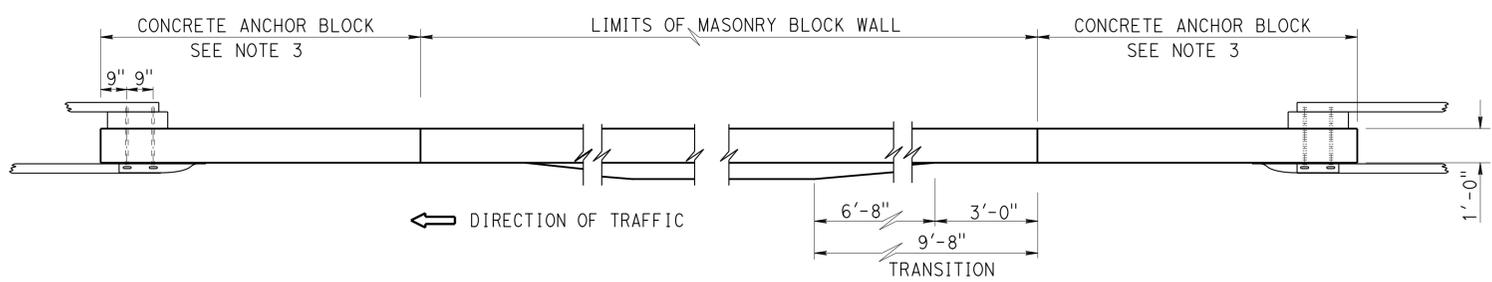
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
5-20-13	30	42

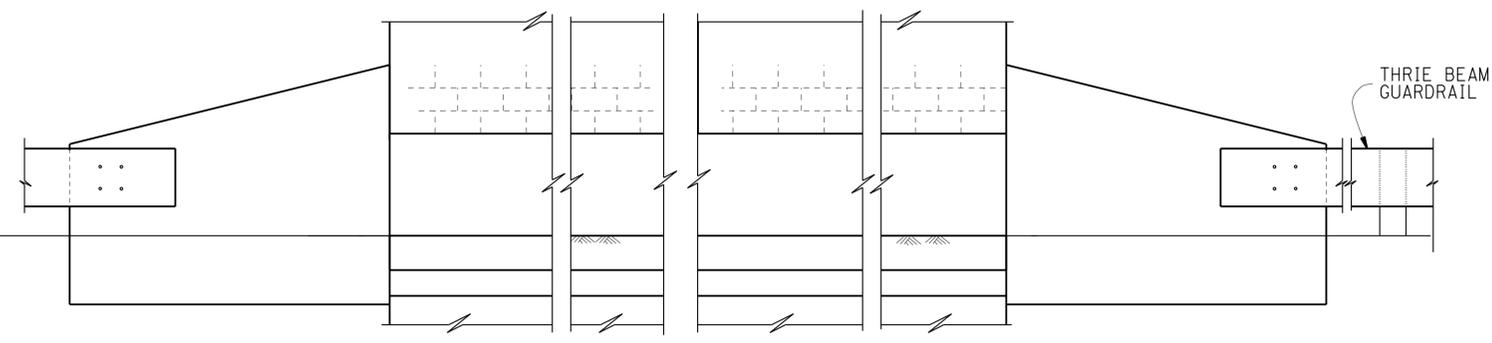
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1651	2313

Dawit Tadelle Esq. 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA

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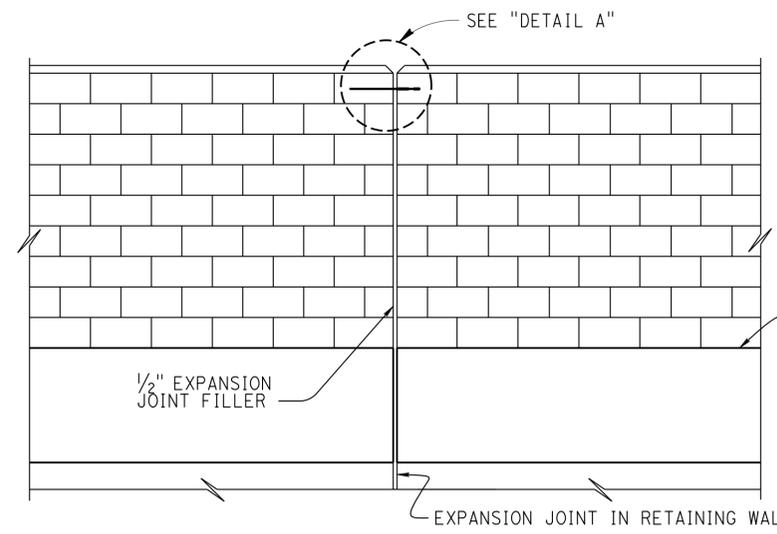
PLAN



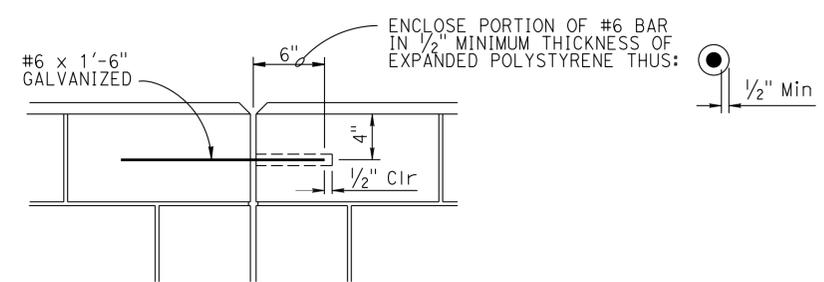
ELEVATION

METAL BEAM GUARDRAIL ANCHORAGE

For details not shown, see STANDARD PLAN B11-56



ALIGNMENT KEY DETAIL



DETAIL A

DESIGN NOTES

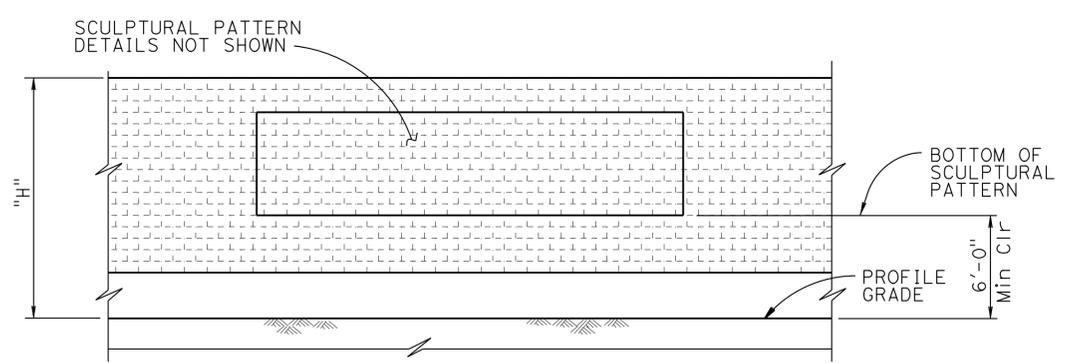
DESIGN
Uniform Building Code, 1997 Edition and the Bridge Design Specifications

DESIGN WIND LOAD
33 psf

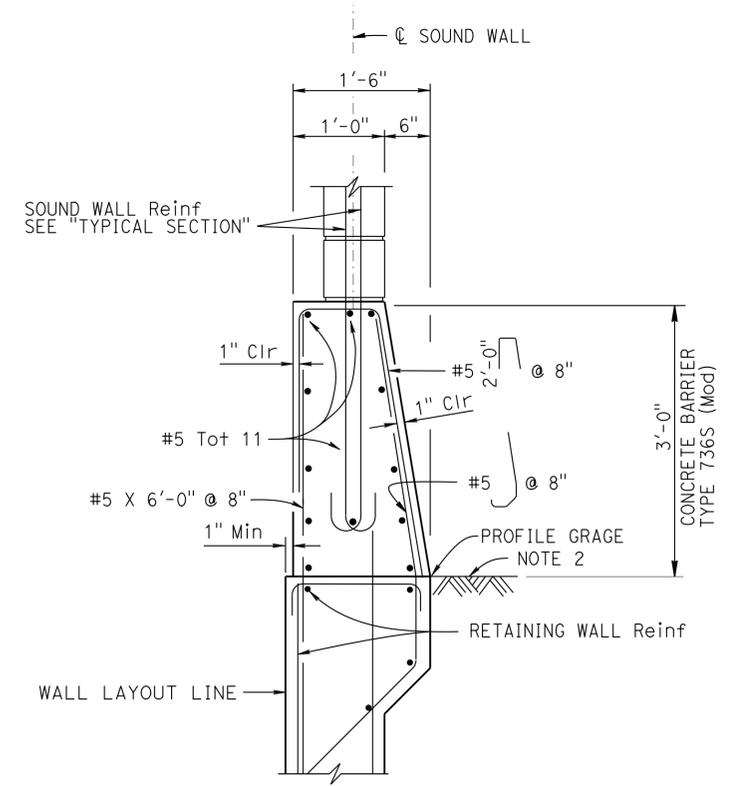
DESIGN SEISMIC LOAD
0.57 Dead load

REINFORCED CONCRETE	CONCRETE MASONRY	
	REGULAR STRENGTH	HIGH STRENGTH
f'c = 3600 psi	f'm = 1500 psi	f'm = 2000 psi
fy = 60 ksi	fb = 495 psi	fb = 660 psi
	fs = 24,000 psi	fs = 24,000 psi
	n = 25.8	n = 19.3
		fb = 830 psi
		fs = 24,000 psi
		n = 15.5

- NOTES:
- For details not shown, see STANDARD PLAN B15-6
 - Slope ground at traffic side of barrier to drain. Maximum slope ±10%. See STANDARD PLAN B11-56, Note D
 - For Concrete Anchor Block and connection details, see "CONNECTION DETAIL DD" on STANDARD PLAN A77J3



CLEARANCE DETAIL



BARRIER SECTION

NO SCALE

HOLT AVENUE UNDERCROSSING (WIDEN)

MASONRY BLOCK SOUND WALL W/BARRIER ON RETAINING WALL

DETAILS NO. 2

BRIDGE NO.	53-0671
POST MILE	38.97

STANDARD DRAWING

FILE NO. **xs15-130-2**

APPROVAL DATE July 2011

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

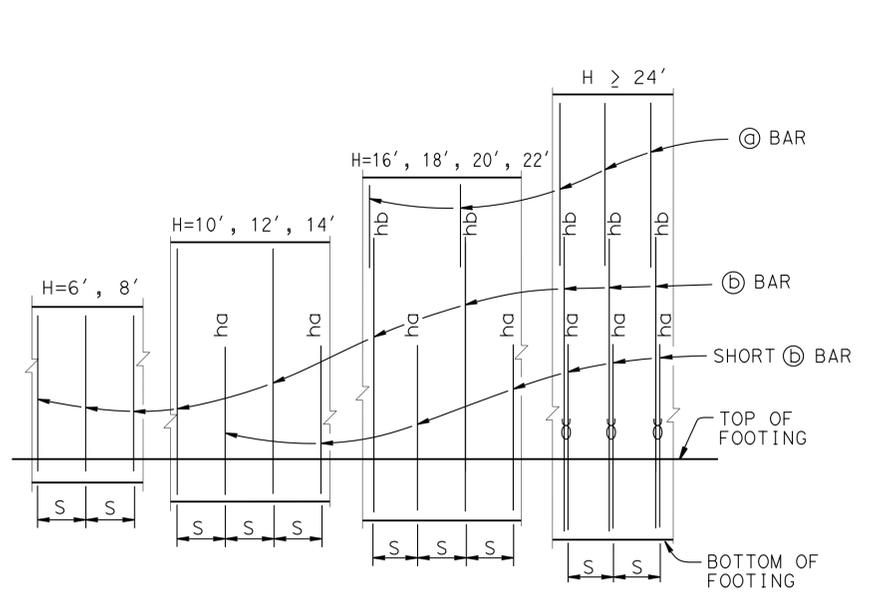
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1652	2313

Davit Tadelle Esq 10/01/14
 REGISTERED CIVIL ENGINEER DATE

6-1-15
 PLANS APPROVAL DATE

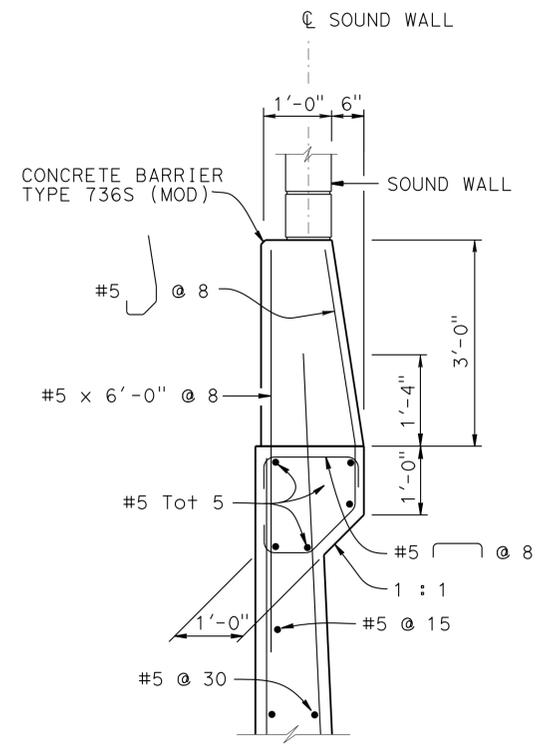
Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA

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ELEVATION
No Scale

NOTES:
 "ha" and "hb" above ⓐ bars indicate distance from top of footing to upper end of ⓐ bars, see table.
 "S" is ⓐ bar spacing, see table.
 Ⓢ : 2 bar bundle



DETAIL A
3/4 = 1'-0"

DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments

WS: 33 psf on Sound Wall and Barrier

LS: Varied surcharge on level ground surface

CT: 54 kip maximum traffic impact loading evenly distributed over 10 feet at top of the barrier and 1:1 distribution down and outward

EQE: Mononabe-Okabe Method
 $K_h = 0.3$
 $K_v = 0.0$

Soil: $\phi = 34^\circ$
 $\gamma = 120$ pcf

Reinforced Concrete: $f'_c = 3600$ psi
 $f_y = 60,000$ psi

Load Combinations and Limit States

Service I $Q = 1.00DC + 1.00EV + 1.00EH + 1.00LS + 0.30WS$

Service II $Q = 1.00DC + 1.00EV + 1.00EH + 1.00WS$

Strength I $Q = aDC + \beta EV + 1.50EH + 1.75LS$

Strength III $Q = aDC + \beta EV + 1.50EH + 1.40WS$

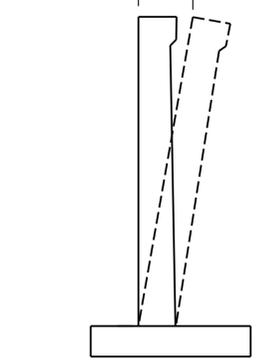
Strength V $Q = aDC + \beta EV + 1.50EH + 1.35LS + 0.40WS$

Extreme I $Q = 1.00DC + 1.00EV + 1.00EH + 1.00EQD + 1.00EQE$

Extreme II $Q = 1.00DC + 1.00EV + 1.00EH + 1.00CT$

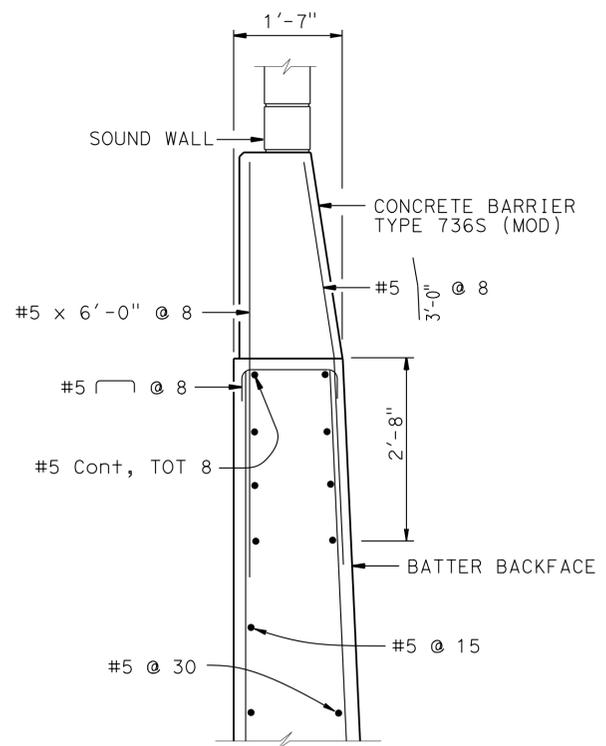
Where: Q: Force Effects
 a: 1.25 or 0.90, which ever Controls Design
 B: 1.35 or 1.00, which ever Controls Design
 DC: Dead Load of Structure Components
 EV: Vertical Earth Fill Pressure
 LS: Live Load Surcharge
 EQE: Seismic Earth Pressure
 EQD: Soil and Structure Components Inertia. Soil inertia ignored for stem design
 WS: Wind Load on Sound Wall and Barrier
 CT: Vehicular Collision Force

VERTICAL LAYOUT LINE
 A^*
 A^* OFFSET = 1/2" PER 10' OF WALL STEM HEIGHT



WALL OFFSET
No Scale

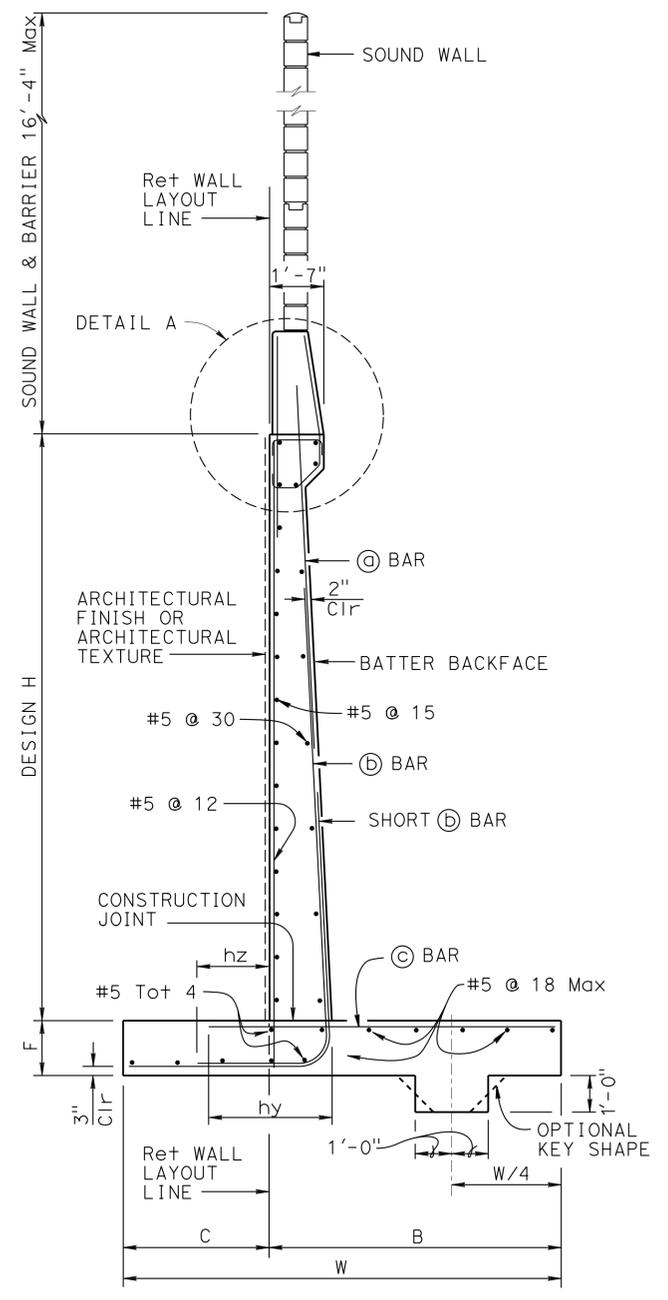
Values for offsetting forms to be determined by the Engineer



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

For Details not shown, see "DETAIL A"

- NOTES:
- For sound wall and retaining wall Architectural finish or texture see details elsewhere in Project Plans
 - For details not shown and drainage notes see **B3-5**
 - Footing cover, 1'-6" minimum.
 - For sound wall and barrier reinforcement details, see "SOUND WALL - MASONRY BLOCK WITH BARRIER ON RETAINING WALL" sheet.
 - For H = 6' through 14', extend ⓐ bars into Barrier for stem with haunch.
 - For H ≥ 16', extend ⓐ bars into Barrier for stem with haunch.



SPREAD FOOTING SECTION
No Scale

STANDARD DRAWING	
FILE NO. xs14-220-1	APPROVAL DATE July 2011

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	
---	--

DIVISION OF ENGINEERING SERVICES	
BRIDGE NO. 53-0671	POST MILE 38.97

HOLT AVENUE UNDERCROSSING (WIDEN)	
RETAINING WALL TYPE 1SWB-DETAILS NO. 1	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1653	2313

Davit Tadelle Esq 10/01/14
 REGISTERED CIVIL ENGINEER DATE

6-1-15
 PLANS APPROVAL DATE

Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA

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TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

DESIGN H	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
W	6'-9"	7'-3"	8'-0"	8'-9"	10'-0"	11'-6"	12'-9"	14'-0"	15'-9"	18'-0"	19'-9"	21'-9"	23'-3"	25'-3"
C	2'-3"	2'-5"	2'-8"	2'-11"	3'-4"	3'-10"	4'-3"	4'-8"	5'-3"	6'-0"	6'-7"	7'-3"	7'-9"	8'-5"
B	4'-6"	4'-10"	5'-4"	5'-10"	6'-8"	7'-8"	8'-6"	9'-4"	10'-6"	12'-0"	13'-2"	14'-6"	15'-6"	16'-10"
F SPREAD FOOTING	1'-3"	1'-3"	1'-3"	1'-3"	1'-6"	1'-9"	1'-9"	2'-3"	2'-6"	2'-6"	2'-9"	3'-0"	3'-6"	3'-9"
STEM WITH HAUNCH, BATTER	0	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	5/8:12	3/4:12	7/8:12	1:12	1:12
STEM WITHOUT HAUNCH, BATTER	0	0	0	0	0	0	0	0	1/4:12	1/4:12	1/2:12	3/4:12	3/4:12	3/4:12
Ⓐ BARS						#7 @ 15	#7 @ 12	#7 @ 12	#8 @ 12	#6 @ 6	#6 @ 6	#6 @ 6	#8 @ 9	#9 @ 9
Ⓑ BARS	#8 @ 12	#8 @ 12	#7 @ 6	#7 @ 6	#7 @ 6	#9 @ 7.5	#9 @ 6	#10 @ 6	#10 @ 6	#8 @ 6	#8 @ 6	#8 @ 6	#10 @ 9	#11 @ 9
ha			5'-0"	6'-0"	7'-0"	7'-0"	6'-0"	7'-0"	7'-6"	7'-6"	8'-6"	9'-3"	15'-0"	11'-3"
hb						11'-6"	12'-0"	13'-3"	16'-0"	15'-6"	17'-6"	18'-9"	21'-0"	20'-9"
hy	2'-0"	2'-4"	1'-8"	2'-0"	2'-4"	2'-10"	2'-10"	3'-7"	3'-7"	4'-6"	5'-6"	2'-10"	4'-6"	5'-6"
hz			0	0	3'-1"	3'-7"	4'-0"	4'-5"	5'-0"	3'-0"	3'-0"	3'-6"	5'-6"	3'-0"
Ⓒ BARS	#6 @ 12	#7 @ 12	#5 @ 6	#6 @ 6	#7 @ 6	#8 @ 7.5	#8 @ 6	#9 @ 6	#9 @ 6	#10 @ 6	#11 @ 6	#8 @ 6	#10 @ 9	#11 @ 9
SER I: B'(ft), q ₀ (ksf)	5.9, 1.2	6.0, 1.4	6.5, 1.6	7.0, 1.8	8.1, 1.9	9.7, 2.0	11.0, 2.1	12.1, 2.3	13.8, 2.4	16.6, 2.4	18.5, 2.6	20.7, 2.7	22.1, 2.9	24.3, 3.0
STR Ia: B'(ft), q ₀ (ksf)	6.3, 1.9	6.3, 2.3	6.7, 2.5	7.0, 2.9	8.1, 3.1	9.5, 3.2	10.8, 3.4	11.8, 3.7	13.4, 4.0	16.2, 4.0	18.0, 4.2	20.2, 4.4	21.5, 5.0	23.7, 5.0
STR, Ib: B'(ft), q ₀ (ksf)	4.3, 1.6	4.3, 2.0	4.3, 2.4	4.3, 2.8	4.3, 2.9	4.3, 2.9	4.3, 3.0	4.3, 3.4	4.3, 3.5	4.3, 3.4	4.3, 3.5	4.3, 3.6	4.3, 3.9	4.3, 4.1
STR, IIIa: B'(ft), q ₀ (ksf)	4.3, 2.1	4.3, 2.4	4.3, 2.5	4.3, 2.8	4.3, 2.9	4.3, 3.0	4.3, 3.2	4.3, 3.7	4.3, 3.7	4.3, 3.8	4.3, 4.0	4.3, 4.2	4.3, 4.6	4.3, 4.9
STR, IIIb: B'(ft), q ₀ (ksf)	3.2, 2.1	3.2, 2.3	3.2, 2.4	3.2, 2.6	3.2, 2.7	3.2, 2.7	3.2, 2.8	3.2, 3.1	3.2, 3.0	3.2, 3.2	3.2, 3.8	3.2, 3.4	3.2, 3.7	3.2, 3.9
STR, Va: B'(ft), q ₀ (ksf)	5.9, 2.0	5.9, 2.3	5.9, 2.6	5.9, 2.9	5.9, 3.1	5.9, 3.2	5.9, 3.4	5.9, 3.9	5.9, 3.9	5.9, 4.0	5.9, 4.2	5.9, 4.5	5.9, 4.9	5.9, 5.1
STR, Vb: B'(ft), q ₀ (ksf)	3.8, 1.7	3.8, 2.1	3.8, 2.5	3.8, 2.8	3.8, 2.9	3.8, 2.9	3.8, 3.0	3.8, 3.3	3.8, 3.4	3.8, 3.3	3.8, 3.5	3.8, 3.6	3.8, 3.9	3.8, 4.0
Ext I: B'(ft), q ₀ (ksf)	2.5, 2.8	2.5, 4.3	2.5, 6.4	2.5, 10.9	2.5, 13.3	2.5, 12.4	2.5, 13.2	2.5, 17.6	2.5, 15.0	2.5, 10.2	2.5, 10.0	2.5, 9.6	2.5, 10.8	2.5, 10.5
Ext II: B'(ft), q ₀ (ksf)	1.4, 4.9	1.4, 3.5	1.4, 2.8	1.4, 2.7	1.4, 2.5	1.4, 2.5	1.4, 2.5	1.4, 2.6	1.4, 2.8	1.4, 2.8	1.4, 2.9	1.4, 3.1	1.4, 3.3	1.4, 3.5

LEGEND:
 SER: service limit state
 STR: strength limit state
 EXT: extreme event limit state
 B': effective footing width (ft)
 q₀: net bearing stress (ksf)
 q_g: gross uniform bearing stress (ksf)
 ∅: 2 bar bundle

STANDARD DRAWING		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 53-0671		HOLT AVENUE UNDERCROSSING (WIDEN)					
FILE NO. xs14-220-2	APPROVAL DATE <u>January 2012</u>	DEPARTMENT OF TRANSPORTATION		PROJECT NUMBER & PHASE: 071300007-1		POST MILE 38.97		RETAINING WALL TYPE 1 SWB-DETAILS NO. 2					
DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3622		CONTRACT NO.: 07-1193U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
								REVISION DATES		SHEET 33		OF 42	

FILE => 53-0671-w-rfw02.dgn
 USERNAME => s125624 DATE PLOTTED => 16-MAY-2015 TIME PLOTTED => 14:07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1654	2313

Dawit Tadelle Tessema 10/01/14
 REGISTERED CIVIL ENGINEER DATE

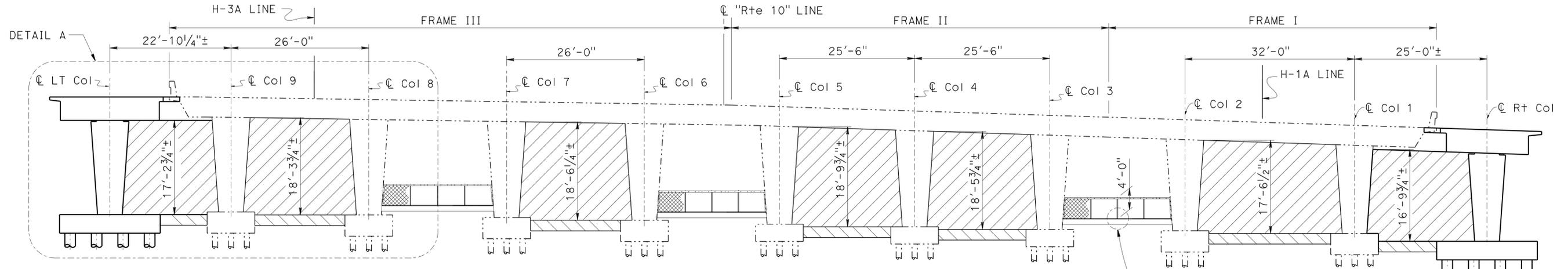
6-1-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Dawit T. Tessema
 No. C60711
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

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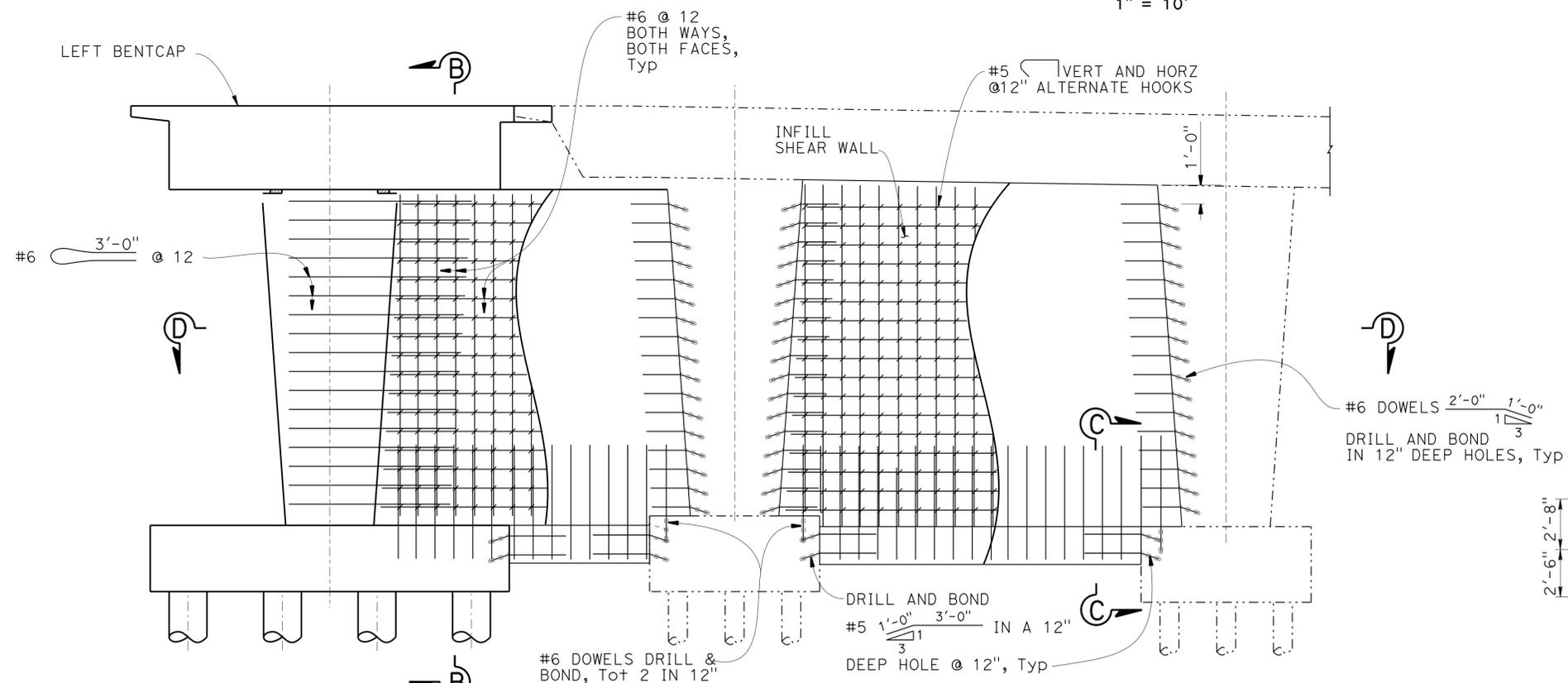
LEGEND

-  Infill Shear Wall Footing
-  Infill Shear Wall
-  Existing structure
-  New structure



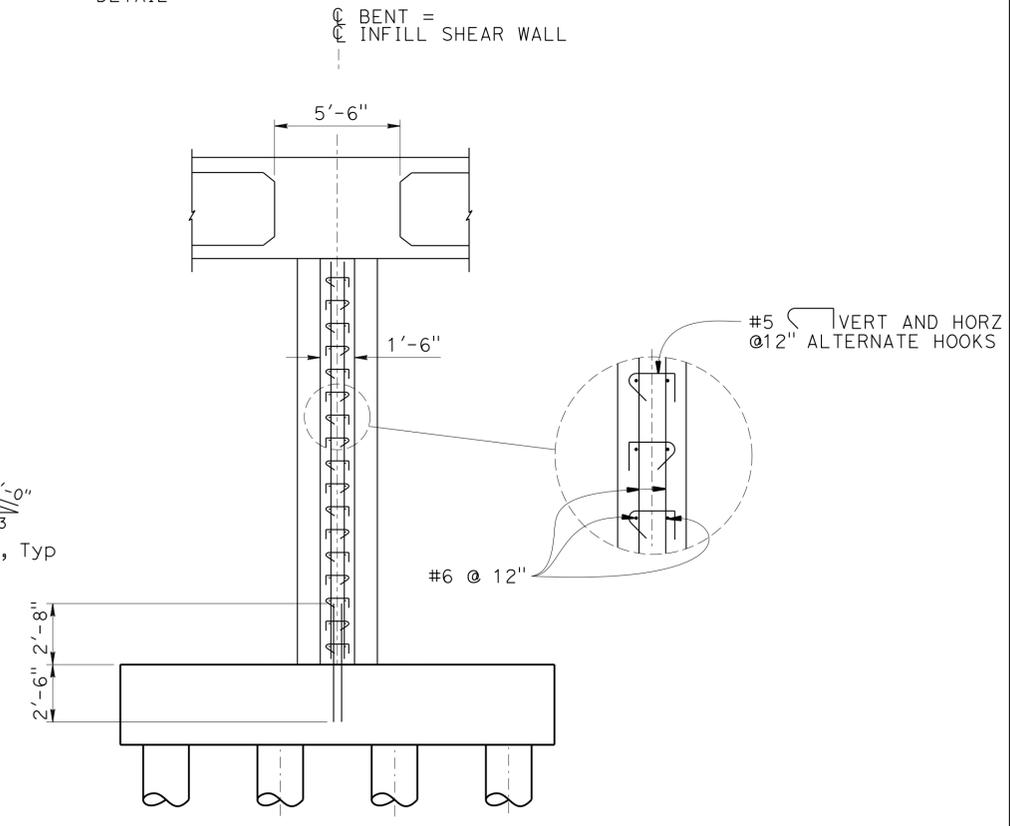
SECTION A-A
 1" = 10'

SEE "POST ANCHORAGE DETAIL"



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

NOTE:
 For Section C-C, Section D-D & "POST ANCHORAGE DETAIL" see "INFILL SHEAR WALL DETAILS #2" sheet.



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

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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	53-0671	HOLT AVENUE UNDERCROSSING (WIDEN) SIEMIC RETROFIT DETAIL NO. 1	
	DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku			POST MILE	38.97		
	QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu			CONTRACT NO.:	07-1193U1		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT: 3622 PROJECT NUMBER & PHASE: 071300007-1	CONTRACT NO.: 07-1193U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
								REVISION DATES	SHEET 34 OF 42

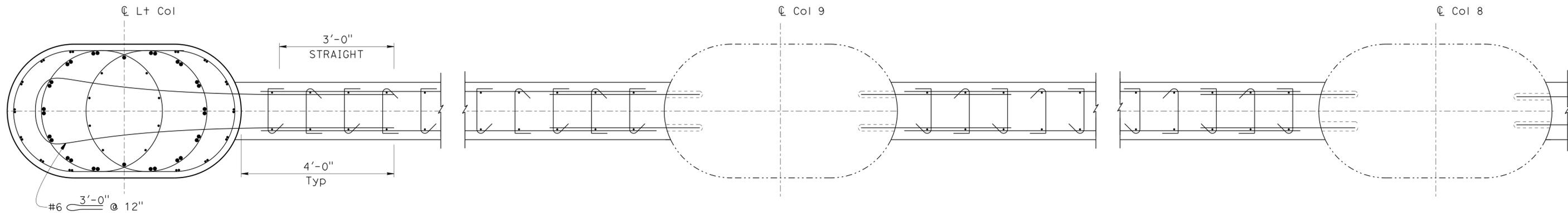
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07	LA	10	37.2/42.4	1655	2313

Dawit Tadelle Tessema 10/01/14
REGISTERED CIVIL ENGINEER DATE

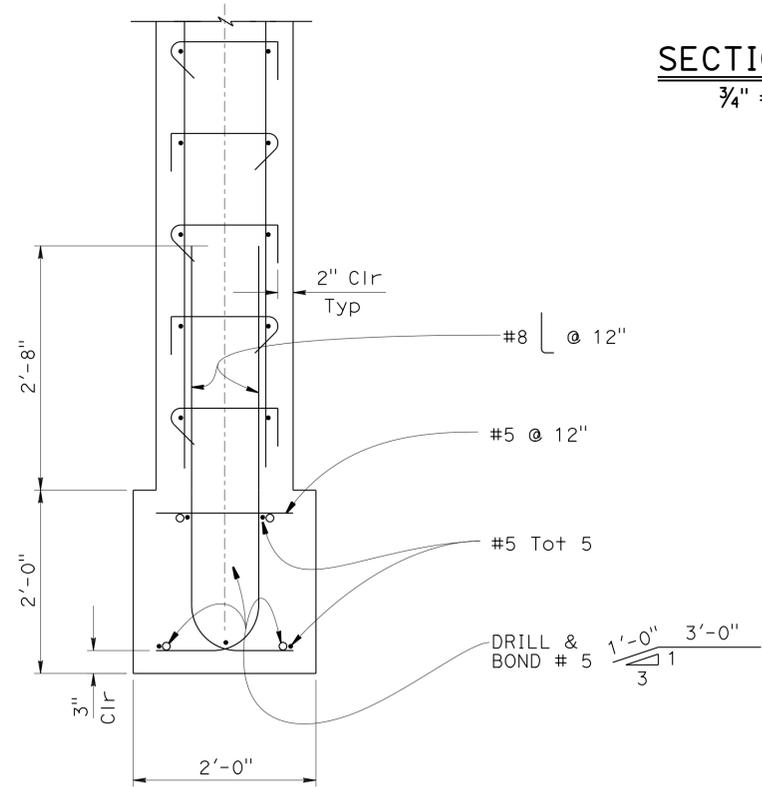
6-1-15
PLANS APPROVAL DATE

Dawit T Worku
No. C60711
Exp 12-31-14
CIVIL
STATE OF CALIFORNIA

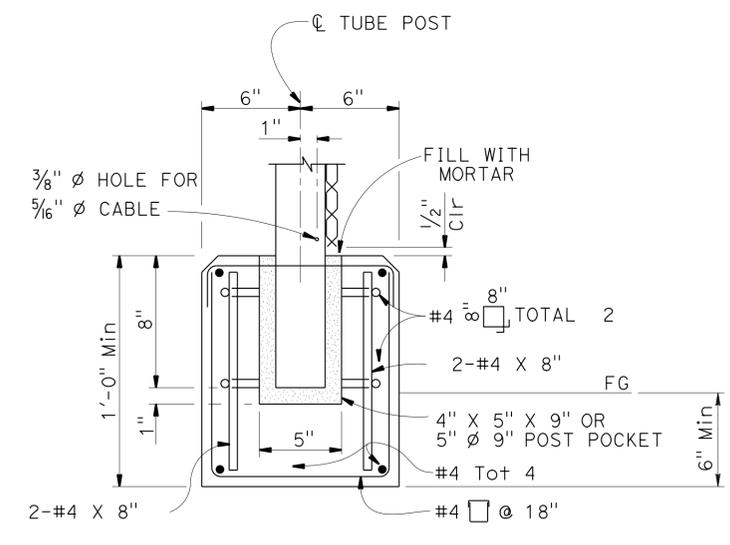
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SECTION D-D
 $\frac{3}{4}'' = 1'-0''$



SECTION C-C
 $1'' = 1'-0''$



POST ANCHORAGE DETAIL
NO SCALE

LEGEND

-----	Existing structure
—————	New structure

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN BY Sharareh Bikae	CHECKED Jason Fang/ Dawit Worku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-0671	HOLT AVENUE UNDERCROSSING (WIDEN)
	DETAILS BY Lan T Tran/ J. Valencia	CHECKED Jason Fang/ Dawit Worku			POST MILE 38.97	
	QUANTITIES BY Sharareh Bikae	CHECKED Edward B. Mu				

UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1 CONTRACT NO.: 07-1193U1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-05-14	35	42

FILE => 53-0671-x-srd+02.dgn

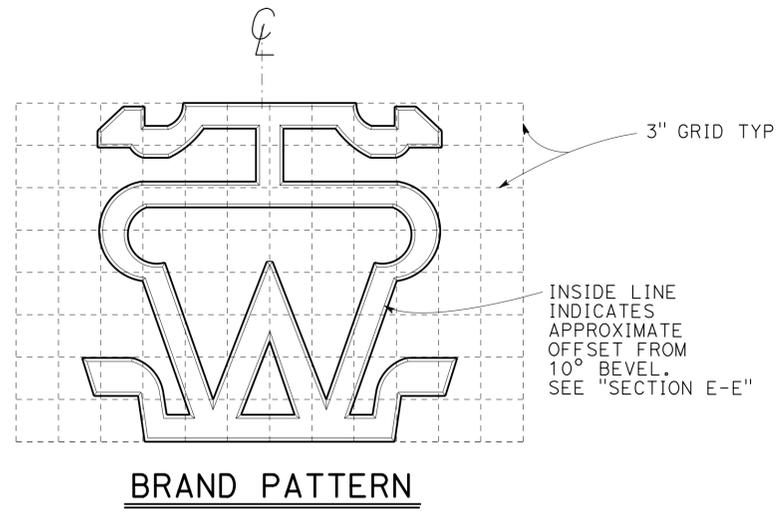
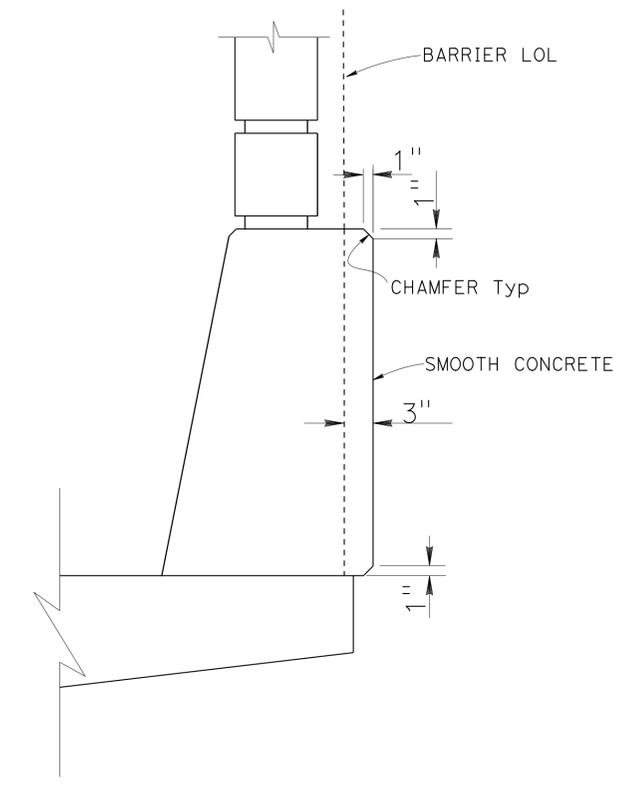
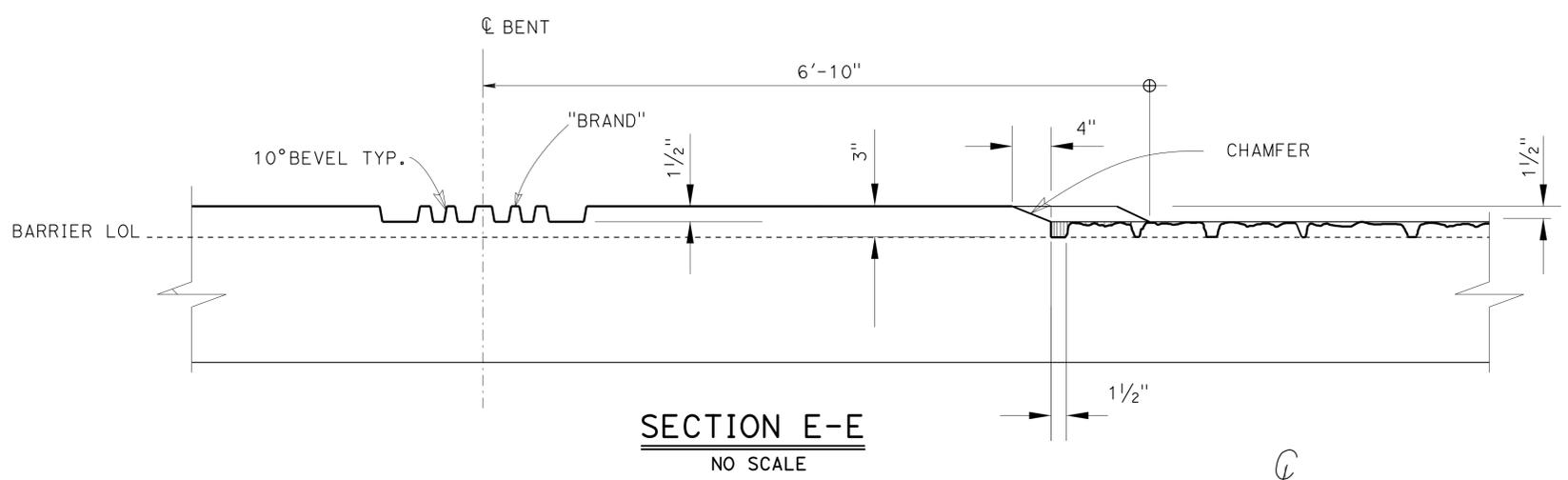
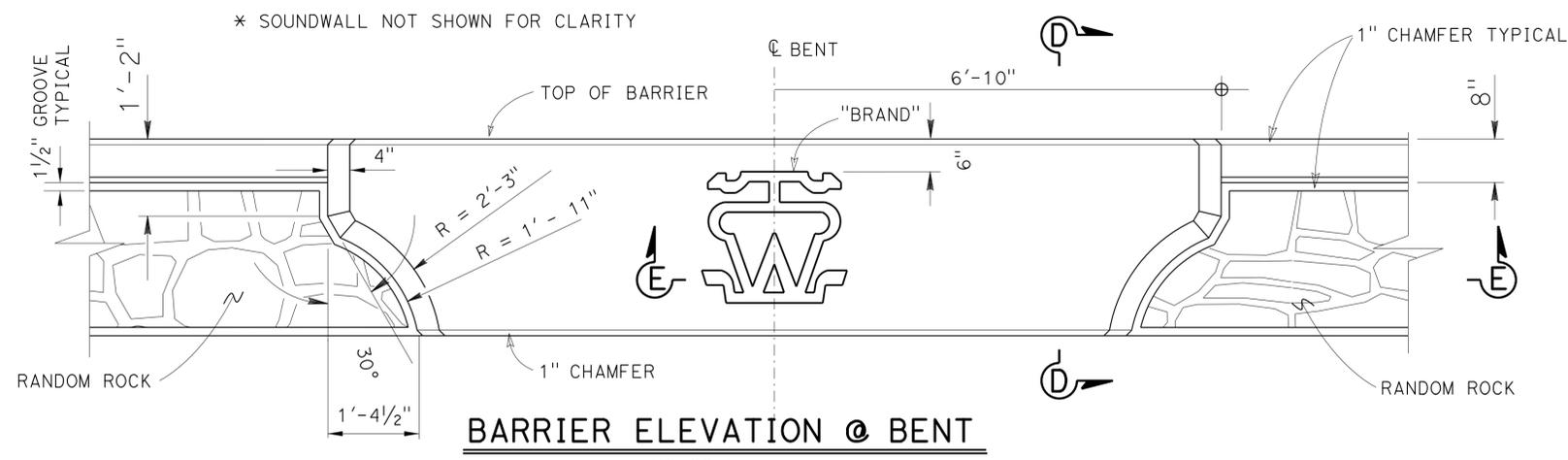
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1657	2313

Davit Tadelle Esq. 10/01/14
 REGISTERED CIVIL ENGINEER DATE

6-1-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Dawit T Worku
 No. C60711
 Exp 12-31-14
 CIVIL
 STATE OF CALIFORNIA

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NOTE:
 1. Stain Federal color 30117

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

DESIGN	BY Varerie Moove	CHECKED Sharareh Bikae
DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Sharareh Bikae
QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu

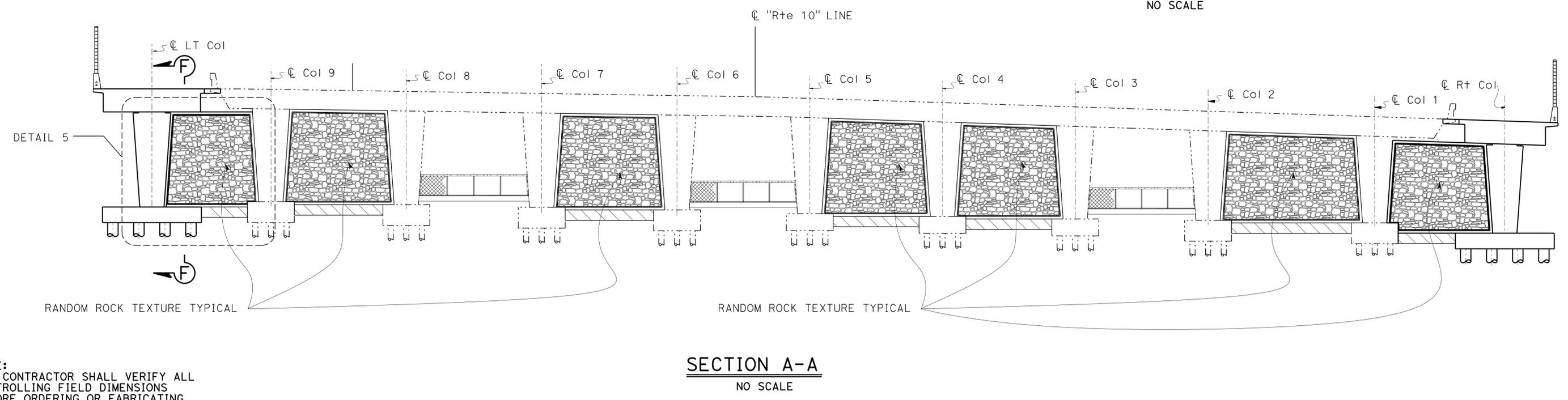
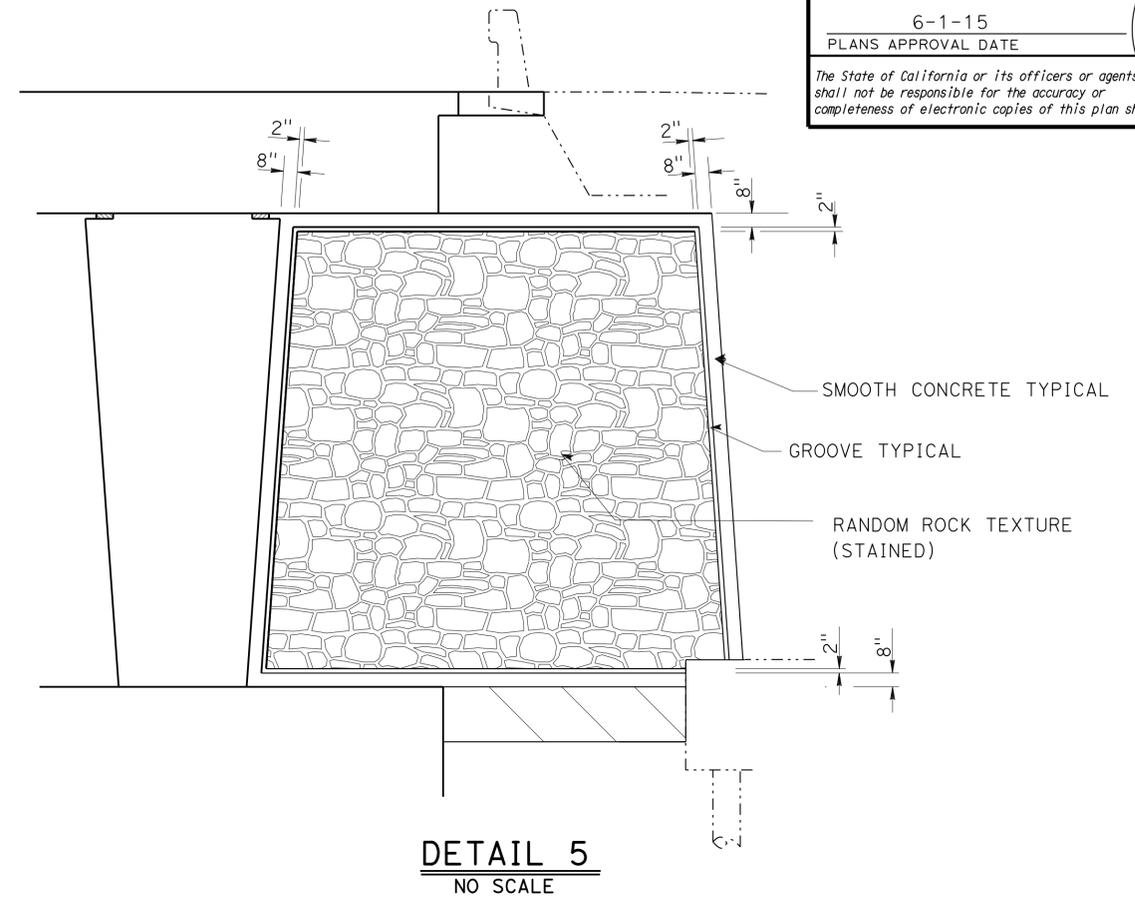
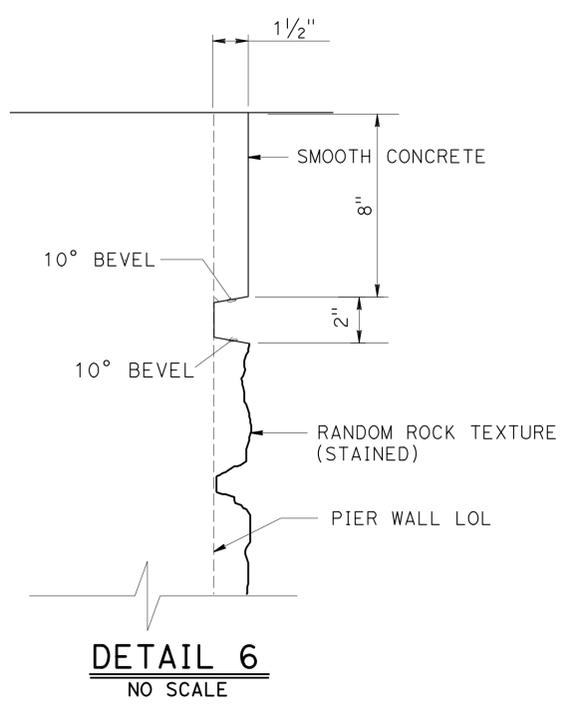
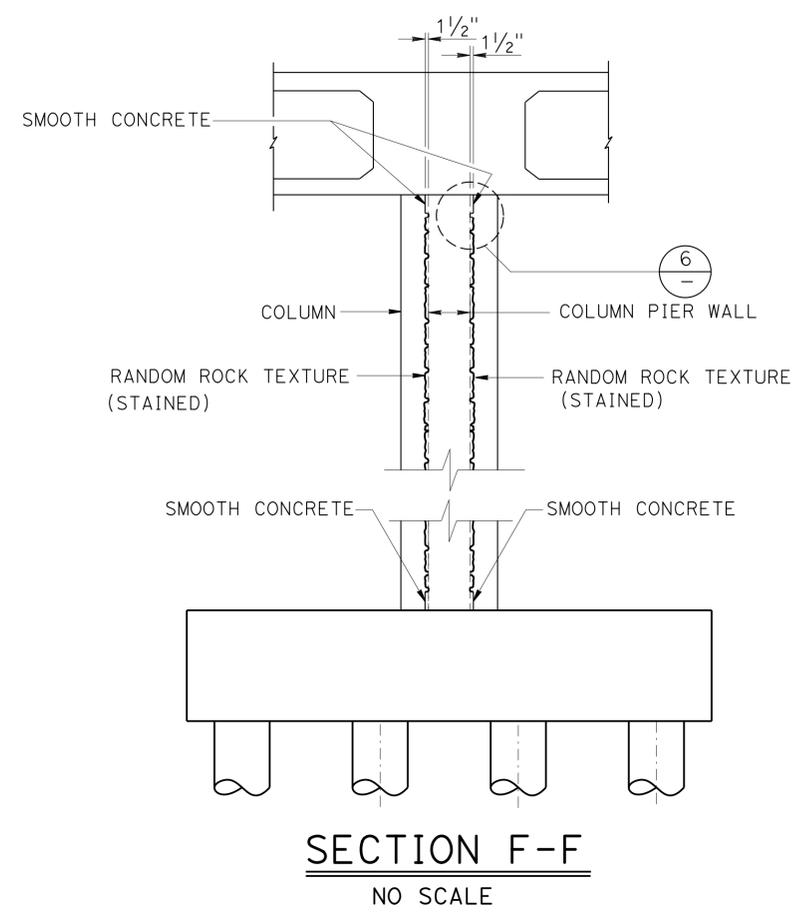
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-0671
POST MILE	38.97

HOLT AVENUE UNDERCROSSING (WIDEN)
ARCHITECTURAL TREATMENT DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1658	2313
Davit Tadelle Esq.			10/01/14	REGISTERED CIVIL ENGINEER DATE	
6-1-15			PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER Dawit T Worku No. C60711 Exp 12-31-14 CIVIL STATE OF CALIFORNIA					
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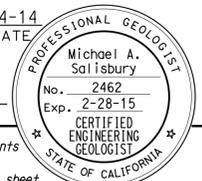


NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Varerie Moove	CHECKED Sharareh Bikae	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	53-0671	HOLT AVENUE UNDERCROSSING (WIDEN) ARCHITECTURAL TREATMENT DETAILS NO. 3
	DETAILS	BY Lan T Tran/ J. Valencia	CHECKED Sharareh Bikae			POST MILE	38.97	
	QUANTITIES	BY Sharareh Bikae	CHECKED Edward B. Mu			UNIT: 3622 PROJECT NUMBER & PHASE: 071300007-1	CONTRACT NO.: 07-1193U1	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS							REVISION DATES	SHEET 38 OF 42

USERNAME => s125624 DATE PLOTTED => 18-MAY-2015 TIME PLOTTED => 14:07

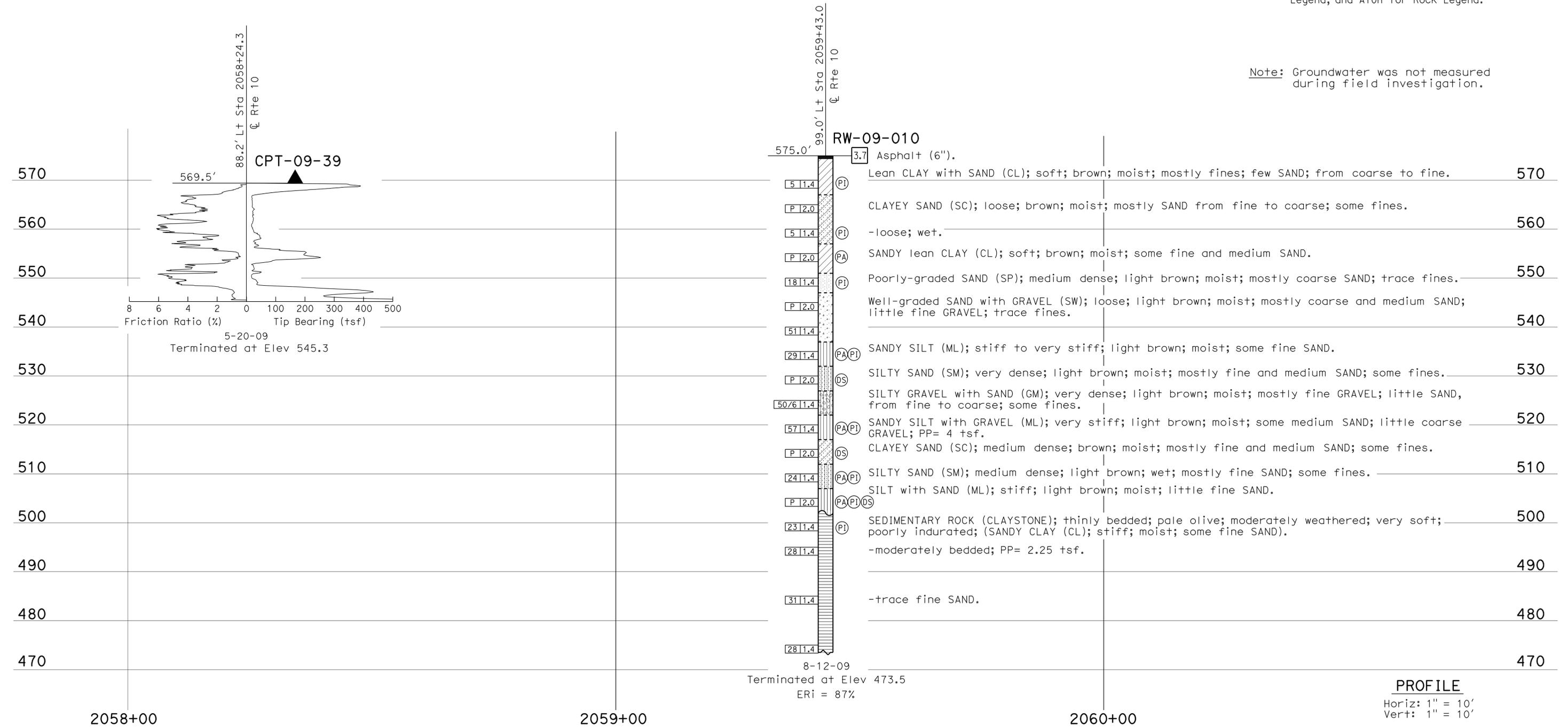
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1660	2313
 REGISTERED CIVIL ENGINEER			1-14-14	DATE	
PLANS APPROVAL DATE 6-1-15					
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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 4"

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).
See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

Note: Groundwater was not measured during field investigation.



PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20		BRIDGE NO. 53-0671 POST MILE 38.9/39.0		HOLT AVENUE UNDERCROSSING (WIDEN) LOG OF TEST BORINGS 2 OF 4	
FUNCTIONAL SUPERVISOR NAME: D. Jang	DRAWN BY: I. G-Remmen CHECKED BY: XX	FIELD INVESTIGATION BY: Y. Choi		UNIT: 3643 PROJECT NUMBER & PHASE: 0713000071		CONTRACT NO.: 07-1193U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 10-19-10 11-27-10 10-21-13 01-14-14	
OGS CIVIL LOG OF TEST BORINGS SHEET				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		SHEET 40 OF 42		FILE => 53-0671-z-1+b02.dgn			

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1661	2313

REGISTERED CIVIL ENGINEER *Michael A. Salisbury* DATE 1-14-14
 PLANS APPROVAL DATE 6-1-15

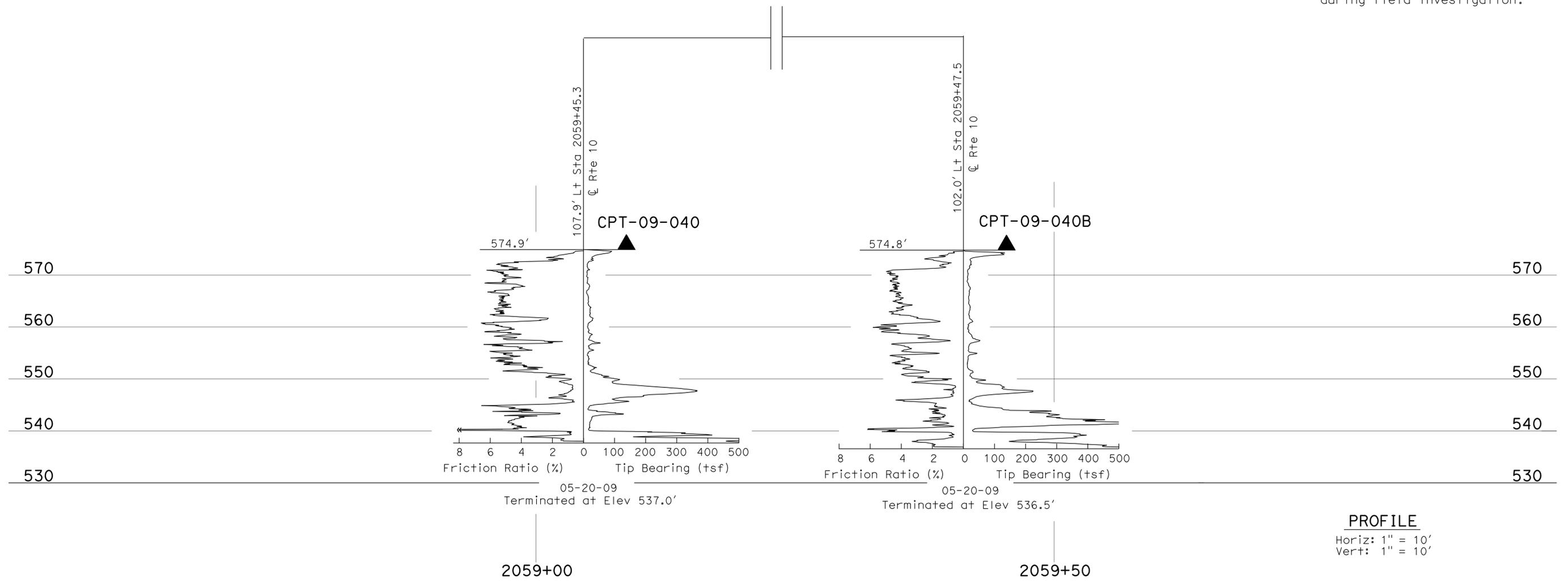
PROFESSIONAL GEOLOGIST
 Michael A. Salisbury
 No. 2462
 Exp. 2-28-15
 CERTIFIED ENGINEERING GEOLOGIST
 STATE OF CALIFORNIA

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.

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 4"

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).
See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

Note: Groundwater was not measured during field investigation.



PROFILE
 Horiz: 1" = 10'
 Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		HOLT AVENUE UNDERCROSSING (WIDEN)	
FUNCTIONAL SUPERVISOR		DRAWN BY: I. G-Remmen		FIELD INVESTIGATION BY:		STRUCTURE DESIGN		53-0671		LOG OF TEST BORINGS 3 OF 4	
NAME: D. Jang		CHECKED BY: XX		Y. Choi		DESIGN BRANCH 20		POST MILE			
06S CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		UNIT: 3643		38.9/39.0			
						PROJECT NUMBER & PHASE: 0713000071		CONTRACT NO.: 07-1193U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
						FILE => 53-0671-z-1+D03.dgn				REVISION DATES	
										SHEET OF	
										41 42	

USERNAME => s125624 DATE PLOTTED => 18-MAY-2015 TIME PLOTTED => 14:07

November 29, 1971

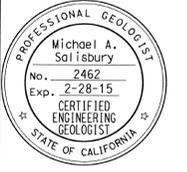
DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES

As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. It does not attest to the accuracy or validity of the information contained in the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.

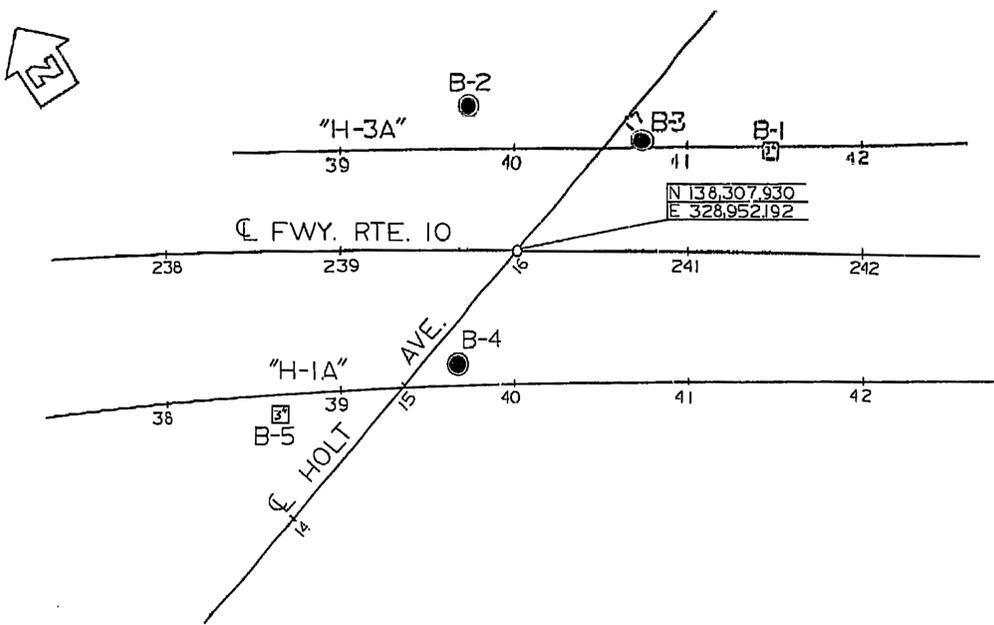
DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1662	2313

UNIT: 3643 CONTRACT No. 07-1193U1 BRIDGE No. 53-0671
 PROJ. No. & PHASE: N/A CONVERSION: N/A Sheet of

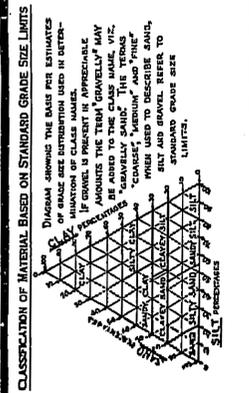
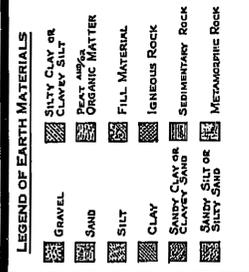
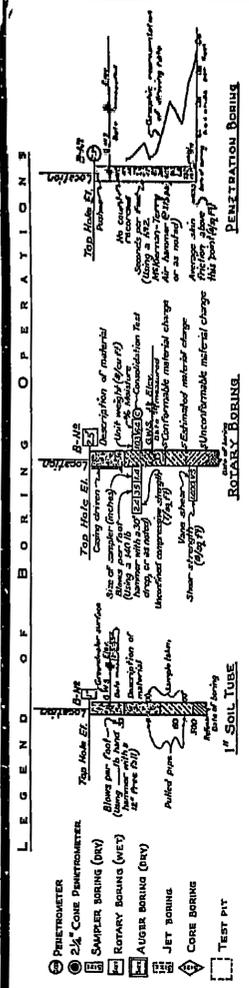
AS-BUILT VERT DATUM: N/A
 NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA TO ACCOMPANY PLANS DATED 6-1-15



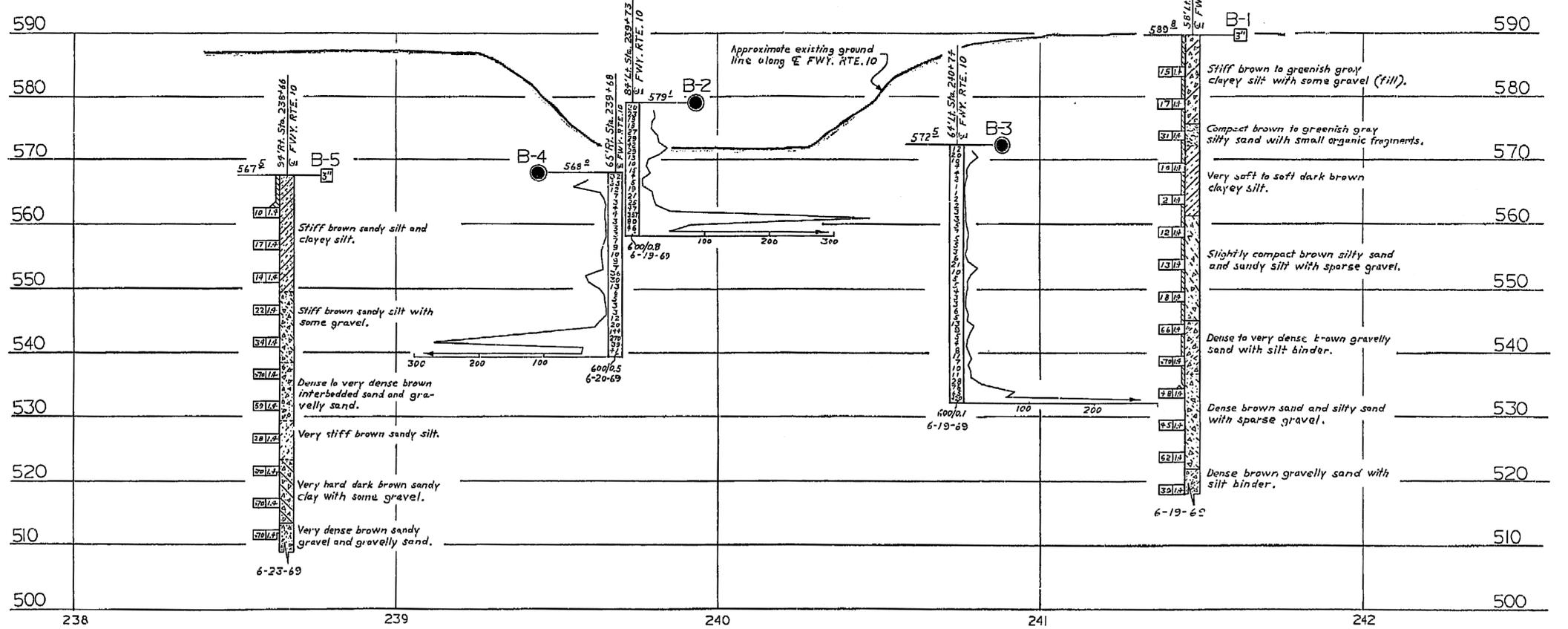
NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION DATE: JUNE 1, 1969



BENCH MARKS
 BM # 238-J-67 Elev. 672.63
 A brass cap Monument in well 80' south of intersection of Holt Ave. and Garvey St. 12' west of flow line of curb.



NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.



AS BUILT PLANS
 Contract No. 07-038824
 Date Completed 12-1-75
 Document No. 700013-1-1

AS BUILT WORK 4/1/75
 CORRECTION: E. PAUL MUCOVICH
 CONTRACT NO. 07-038824
 DATE 8-6-75

STATE OF CALIFORNIA
 TRANSPORTATION AGENCY
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

HOLT AVENUE UNDERCROSSING

LOG OF TEST BORINGS

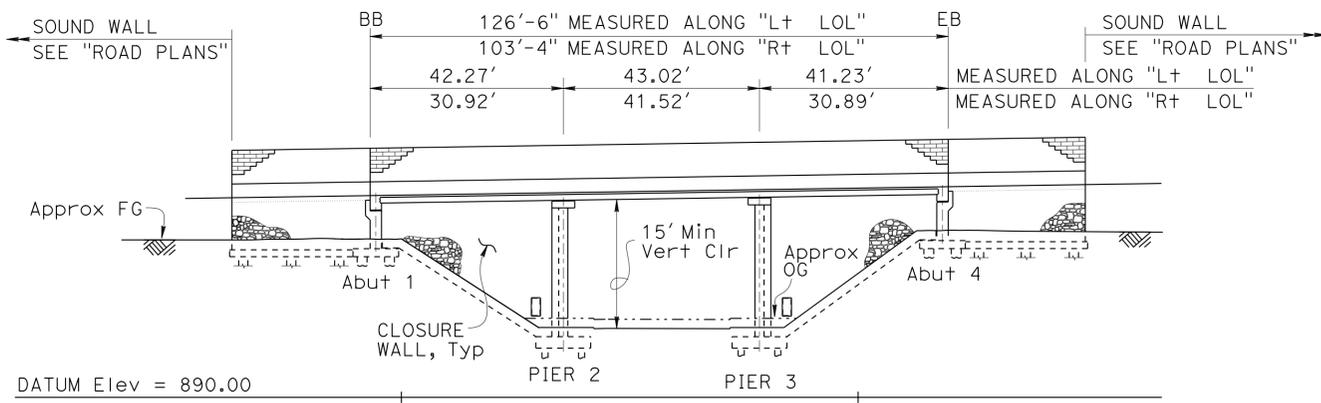
BRIDGE NO.	53-671	POST MILE	39.0	DRAWING NO.	14	OF	14
REVISION DATES (PRELIMINARY STAGE ONLY)							

WO 038821
 CU 07213

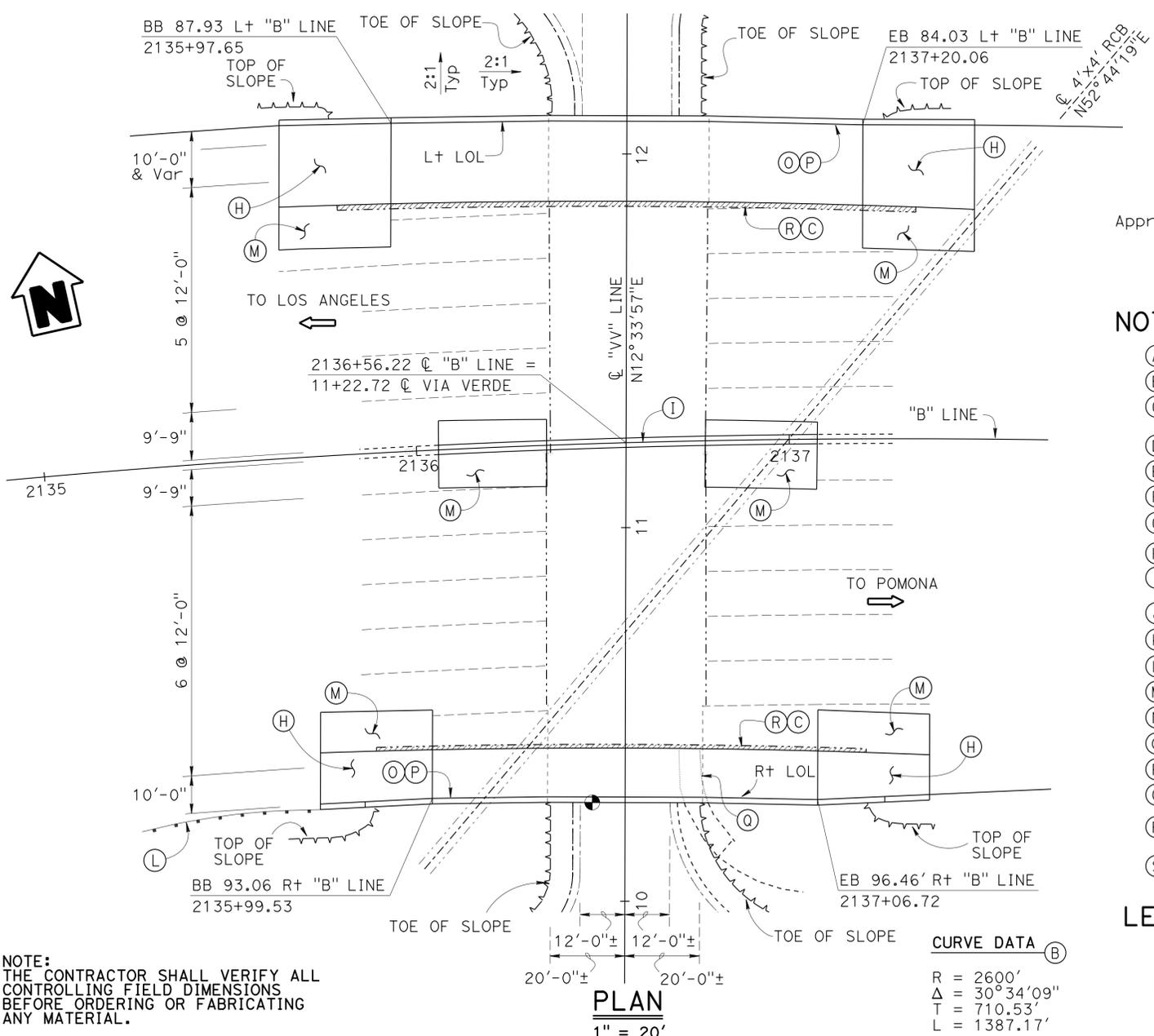
Observe prints bearing earlier revision dates

BRIDGE DEPARTMENT
 ENGINEERING GEOLOGY SECTION

623

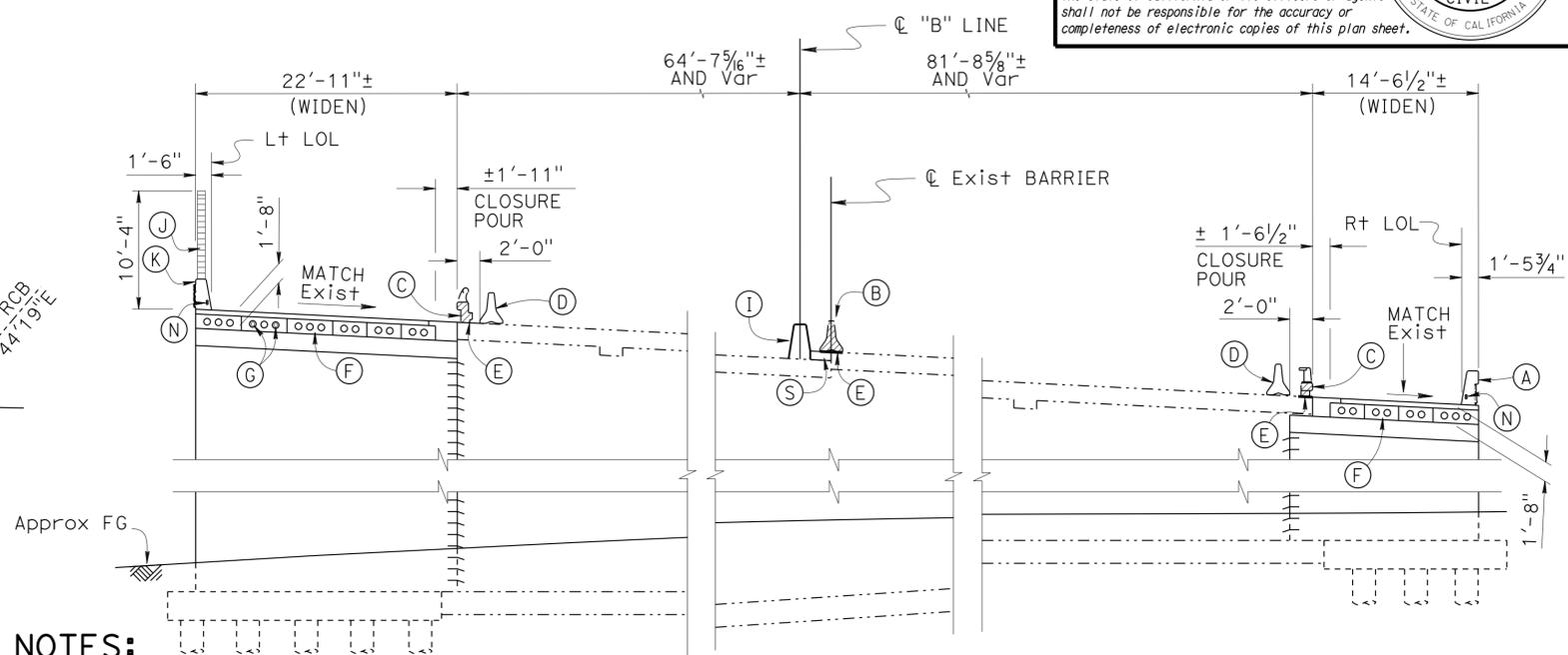


MIRROR ELEVATION
1" = 20'-0"



PLAN
1" = 20'

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



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

NOTES:

- (A) Concrete Barrier Type 736 (Mod 4)
- (B) Remove Concrete Barrier Type 50B (Mod)
- (C) Remove Bridge Railing and Salvage Metal Bridge Railing
- (D) Temporary Railing Type K, see "ROAD PLANS"
- (E) Refinish Bridge Deck
- (F) PC/PS Concrete Slab with 5" Concrete Topping
- (G) 2-3/2"Ø Communication Conduits, see "ROAD PLANS"
- (H) Structure Approach Slab Type N(30S)
- (I) Concrete Barrier Type 60A (Mod), see "TYPICAL SECTION" sheet
- (J) Soundwall (Masonry Block)
- (K) Concrete Barrier Type 736 (Mod 1)
- (L) Midwest Guardrail System, see "ROAD PLANS"
- (M) Structure Approach Slab Type R(30D)
- (N) 2-2"Ø Conduit, see "ROAD PLANS"
- (O) Paint "VIA VERDE UC"
- (P) Paint "Br NO. 53-0870"
- (Q) Existing RW & Footing to be removed, see "DETAIL Q" on "ABUTMENT DETAILS NO. 4" sheet
- (R) Remove existing Closure Wall for detail see "ABUTMENT DETAILS NO. 3" sheet
- (S) Concrete Slab, see "TYPICAL SECTION" sheet

LEGEND:

- Indicates New Construction
- - - - Indicates Existing Structure
- ▨ Bridge Removal (Portion)
- Indicate Point of Minimum Vertical Clearance
- ➔ Indicate Direction of traffic

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	1	CF
SALVAGE METAL BRIDGE RAILING	290	LF
REMOVE UNSOUND CONCRETE	1	CF
REFINISH BRIDGE DECK	546	SQFT
BRIDGE REMOVAL (PORTION), LOCATION D	LUMP	SUM
STRUCTURE EXCAVATION (BRIDGE)	687	CY
STRUCTURE BACKFILL (BRIDGE)	376	CY
24" CAST-IN-DRILLED-HOLE CONCRETE PILING	2,530	LF
FURNISH PILING (CLASS 90)	853	LF
(ALTERNATIVE X)		
DRIVE PILE (CLASS 90)(ALTERNATIVE X)	18	EA
STRUCTURAL CONCRETE, BRIDGE FOOTING	171	CY
STRUCTURAL CONCRETE, BRIDGE	416	CY
AGGREGATE BASE (APPROACH SLAB)	9	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	77	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	89	CY
PAVING NOTCH EXTENSION	61	CF
CONCRETE SURFACE TEXTURE	4,325	SQFT
DRILL AND BOND DOWEL	590	LF
FURNISH PRECAST PRESTRESSED CONCRETE SLAB (TYPE S11) (MODIFIED)	3,690	SQFT
ERECT PRECAST PRESTRESSED CONCRETE DECK UNIT	30	EA
JOINT SEAL (MR 1")	156	LF
BAR REINFORCING STEEL (BRIDGE)	153,934	LB
SOUND WALL (MASONRY BLOCK)	1,367	SQFT
PREPARE AND STAIN CONCRETE	3,932	SQFT
MISCELLANEOUS METAL (BRIDGE)	1,430	LB
CONCRETE BARRIER (TYPE 60A MODIFIED)	103	LF
CONCRETE BARRIER (TYPE 736 MODIFIED)	267	LF
CONCRETE BARRIER (TYPE 736S MODIFIED)	60	LF

DESIGN	BY HOMA IRANINEJADIAN	CHECKED SHARAREH BIKAAE	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY K. FARAHZADIYAZDI/A. ONG	CHECKED SHARAREH BIKAAE	LAYOUT	BY HOMA IRANINEJADIAN
QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL	SPECIFICATIONS	BY XIAODONG CHEN

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

VIA VERDE UNDERCROSSING (WIDEN)
GENERAL PLAN

INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	INDEX TO PLANS
3.	FOUNDATION PLAN
4.	ABUTMENT 1 LAYOUT
5.	ABUTMENT 4 LAYOUT
6.	ABUTMENT DETAILS NO. 1
7.	ABUTMENT DETAILS NO. 2
8.	ABUTMENT DETAILS NO. 3
9.	ABUTMENT DETAILS NO. 4
10.	PIER WALL DETAILS NO. 1
11.	PIER WALL DETAILS NO. 2
12.	PIER WALL DETAILS NO. 3
13.	TYPICAL SECTION
14.	SLAB LAYOUT
15.	TOP SLAB REINFORCEMENT
16.	PRESTRESSED CONCRETE SLAB DETAILS
17.	MISCELLANEOUS DETAILS
18.	RETAINING WALL TYPE 1SWBP-DETAILS NO. 1
19.	RETAINING WALL TYPE 1SWBP-DETAILS NO. 2
20.	MASONARY BLOCK SOUNDWALL WITH BARRIER ON RETAINING WALL, DETAILS NO. 1
21.	MASONARY BLOCK SOUNDWALL WITH BARRIER ON RETAINING WALL, DETAILS NO. 2
22.	MASONARY BLOCK SOUNDWALL ON BRIDGE
23.	STRUCTURE APPROACH SLAB LAYOUT
24.	STRUCTURE APPROACH DRAINAGE DETAILS
25.	STRUCTURE APPROACH TYPE N(30S)
26.	STRUCTURE APPROACH TYPE R(30D)
27.	ARCHITECTURAL TREATMENT (LEFT WIDEN)
28.	ARCHITECTURAL TREATMENT DETAILS (LEFT WIDEN)
29.	ARCHITECTURAL TREATMENT (RIGHT WIDEN)
30.	ARCHITECTURAL TREATMENT DETAILS (RIGHT WIDEN)
31.	LOG OF TEST BORINGS 1 OF 3
32.	LOG OF TEST BORINGS 2 OF 3
33.	LOG OF TEST BORINGS 3 OF 3
34.	LOG OF TEST BORINGS 4 OF 5
35.	LOG OF TEST BORINGS 5 OF 5

GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4th Edition with Caltrans Amendments, preface dated November 2011

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 1.6 November 2010

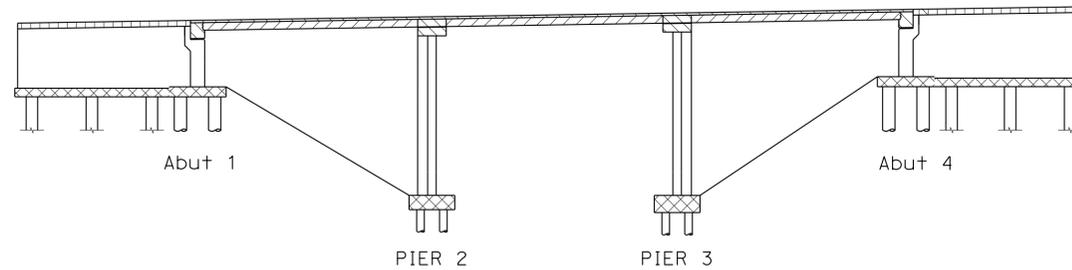
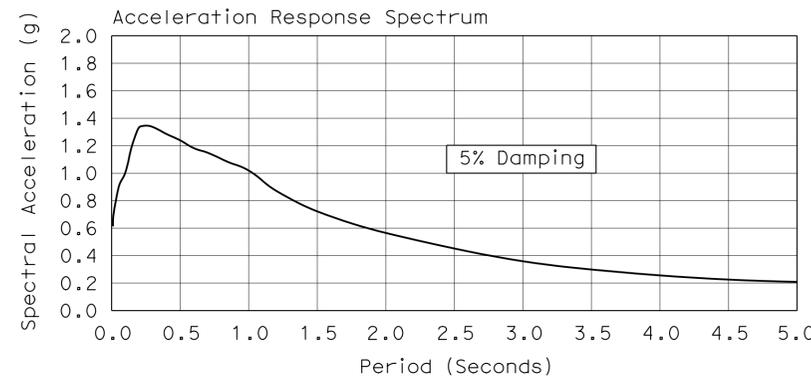
DEAD LOADING: Include 35 psf for future wearing surface

LIVE LOADING: HL-93 and Permit Design Load

SEISMIC LOADING: Soil profile: Shear Wave Velocity of top 100 ft soil $V_s = 240$ m/sec
Moment Magnitude $M_{max} = 6.6$
Peak Ground Acceleration = 0.6g

REINFORCED CONCRETE: $f_y = 60$ ksi
 $f'_c = 3.6$ ksi (Except as shown on Concrete Strength and Type Limits Diagram)
 $n = 8$

PRESTRESSED CONCRETE: See PRESTRESSING NOTES on "PRESTRESSED CONCRETE SLAB DETAILS" sheet



- Structural Concrete, Bridge ($f'_c = 4$ ksi @ 28 days)
- Precast Prestressed Concrete Slab, see "PRESTRESSED CONCRETE SLAB DETAIL" sheet
- Structural Concrete, Bridge ($f'_c = 5$ ksi @ 28 days)
- Structural Concrete, Bridge Footing
- Structural Concrete, Approach Slab Type N(30S)

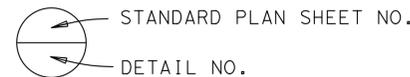
CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

STANDARD PLANS Dated 2010

A10A	ABBREVIATIONS (SHEET 1 OF 2)
(RSP) A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE SURCHARGE AND WALL
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
A76A	CONCRETE BARRIER TYPE 60
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-3	16" AND 24" CAST-IN-DRILLED-HOLE CONCRETE PILE
B2-5	PILE DETAILS CLASS 90 AND CLASS 140
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 1")
(RSP) B11-56	CONCRETE BARRIER TYPE 736
B14-3	COMMUNICATION AND SPRINKLER CONDUITS (CONDUIT LESS THAN 4")

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



PILE DATA TABLE

LOCATION	PILE TYPE	NOMINAL RESISTANCE (Kips)		DESIGN TIP ELEV (F+)	SPECIFIED TIP ELEV (F+)	REQUIRED NORMAL DRIVING RESISTANCE (Kips)
		COMPRESSION	TENSION			
Abut 1 (L)	24" CIDH	180	0	879 (a)	879	N/A
				898 (c)		
				893 (d)		
WINGWALL Abut 1 (L)	* CLASS 90	140	0	876 (d)	876	180
Abut 1 (R)	24" CIDH	140	0	866 (a)	886	N/A
				904 (c)		
				889 (d)		
PIER 2 (L)	24" CIDH	320	190	860 (a)	860	N/A
				864 (b)		
				884 (c)		
				874 (d)		
PIER 2 (R)	24" CIDH	220	90	865 (a)	865	N/A
				880 (b)		
				886 (c)		
				878 (d)		
PIER 3 (L)	24" CIDH	320	190	860 (a)	860	N/A
				864 (b)		
				884 (c)		
				874 (d)		
PIER 3 (R)	24" CIDH	220	90	865 (a)	865	N/A
				880 (b)		
				886 (c)		
				879 (d)		
Abut 4 (L)	24" CIDH	180	0	879 (a)	879	N/A
				900 (c)		
				894 (d)		
WINGWALL Abut 4 (L)	* CLASS 90	140	0	876 (d)	876	180
Abut 4 (R)	24" CIDH	140	0	886 (a)	886	N/A
				905 (c)		
				891 (d)		

NOTES:

Design Tip Elevation are controlled by: (a) Compression, (b) Tension, (c) Settlement, (d) Lateral load.

The specified tip elevation for CIDH piles shall not be raised.
* Class 90 Alternative "X" Piles shall have dimension "T" not less than 12".

DESIGN	BY HOMA IRANINEJADIAN	CHECKED SHARAREH BIKAE
DETAILS	BY ANTONETTE L. ONG	CHECKED SHARAREH BIKAE
QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

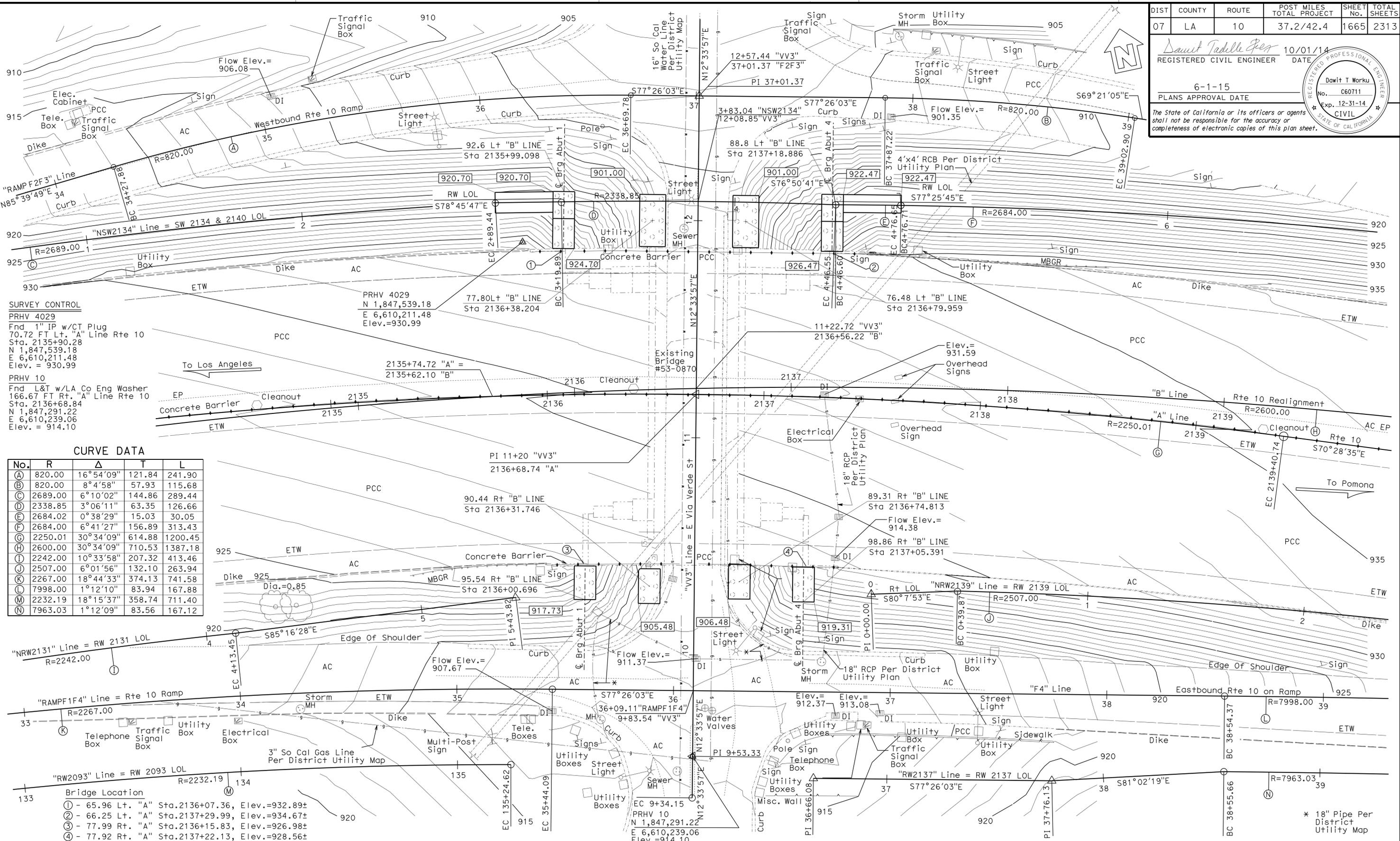
BRIDGE NO.
53-0870
POST MILE
40.46

VIA VERDE UNDERCRSSING (WIDEN)

INDEX TO PLANS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1665	2313

Dawit Tadelle Tessema
 REGISTERED CIVIL ENGINEER
 DATE 10/01/14
 6-1-15
 PLANS APPROVAL DATE
 Dawit T. Worku
 No. C60711
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA
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SURVEY CONTROL

PRHV 4029
 Fnd 1" IP w/CT Plug
 70.72 FT Lt. "A" Line Rte 10
 Sta. 2135+90.28
 N 1,847,539.18
 E 6,610,211.48
 Elev. = 930.99

PRHV 10
 Fnd L&T w/LA Co Eng Washer
 166.67 FT Rt. "A" Line Rte 10
 Sta. 2136+68.84
 N 1,847,291.22
 E 6,610,239.06
 Elev. = 914.10

CURVE DATA

No.	R	Δ	T	L
(A)	820.00	16°54'09"	121.84	241.90
(B)	820.00	8°4'58"	57.93	115.68
(C)	2689.00	6°10'02"	144.86	289.44
(D)	2338.85	3°06'11"	63.35	126.66
(E)	2684.00	0°38'29"	15.03	30.05
(F)	2684.00	6°41'27"	156.89	313.43
(G)	2250.01	30°34'09"	614.88	1200.45
(H)	2600.00	30°34'09"	710.53	1387.18
(I)	2242.00	10°33'58"	207.32	413.46
(J)	2507.00	6°01'56"	132.10	263.94
(K)	2267.00	18°44'33"	374.13	741.58
(L)	7998.00	1°12'10"	83.94	167.88
(M)	2232.19	18°15'37"	358.74	711.40
(N)	7963.03	1°12'09"	83.56	167.12

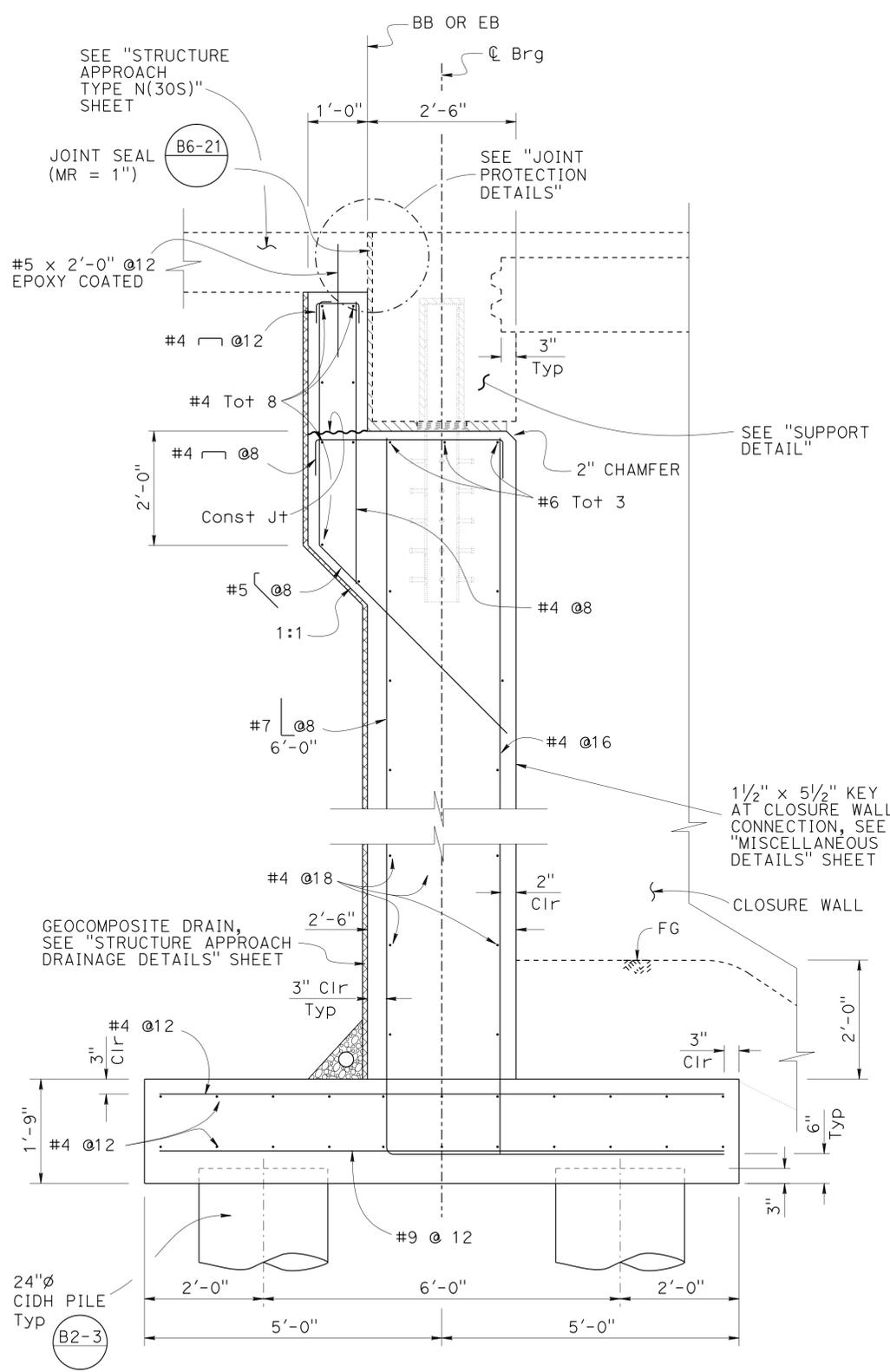
- Bridge Location**
- ① - 65.96 Lt. "A" Sta. 2136+07.36, Elev. = 932.89±
 - ② - 66.25 Lt. "A" Sta. 2137+29.99, Elev. = 934.67±
 - ③ - 77.99 Rt. "A" Sta. 2136+15.83, Elev. = 926.98±
 - ④ - 77.92 Rt. "A" Sta. 2137+22.13, Elev. = 928.56±

PRELIMINARY INVESTIGATION SECTION			DESIGN BY HOMA IRANINEJADIAN	CHECKED SHARAREH BIKAEI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE No. 53-0870	VIA VERDE UC (WIDENING) FOUNDATION PLAN
SCALE 1"=20'	VERT. DATUM NAVD88	PHOTOGRAMMETRY AS OF: X	DETAILS BY ANTONETTE L. ONG	CHECKED SHARAREH BIKAEI		POST MILE 40.46	
ALIGNMENT TIES Dist. Traverse Sheet	SURVEYED BY District	CHECKED BY T. Schmalz	QUANTITIES BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL			

STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 UNIT: 3622 PROJECT NUMBER & PHASE: 071300007-1 CONTRACT NO.: 07-1193U1
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 08/29/10, 07/27/10, 05/26/11, 04/8/13
 SHEET 3 OF 35
 FILE => 53-0870-e-fp101.dgn

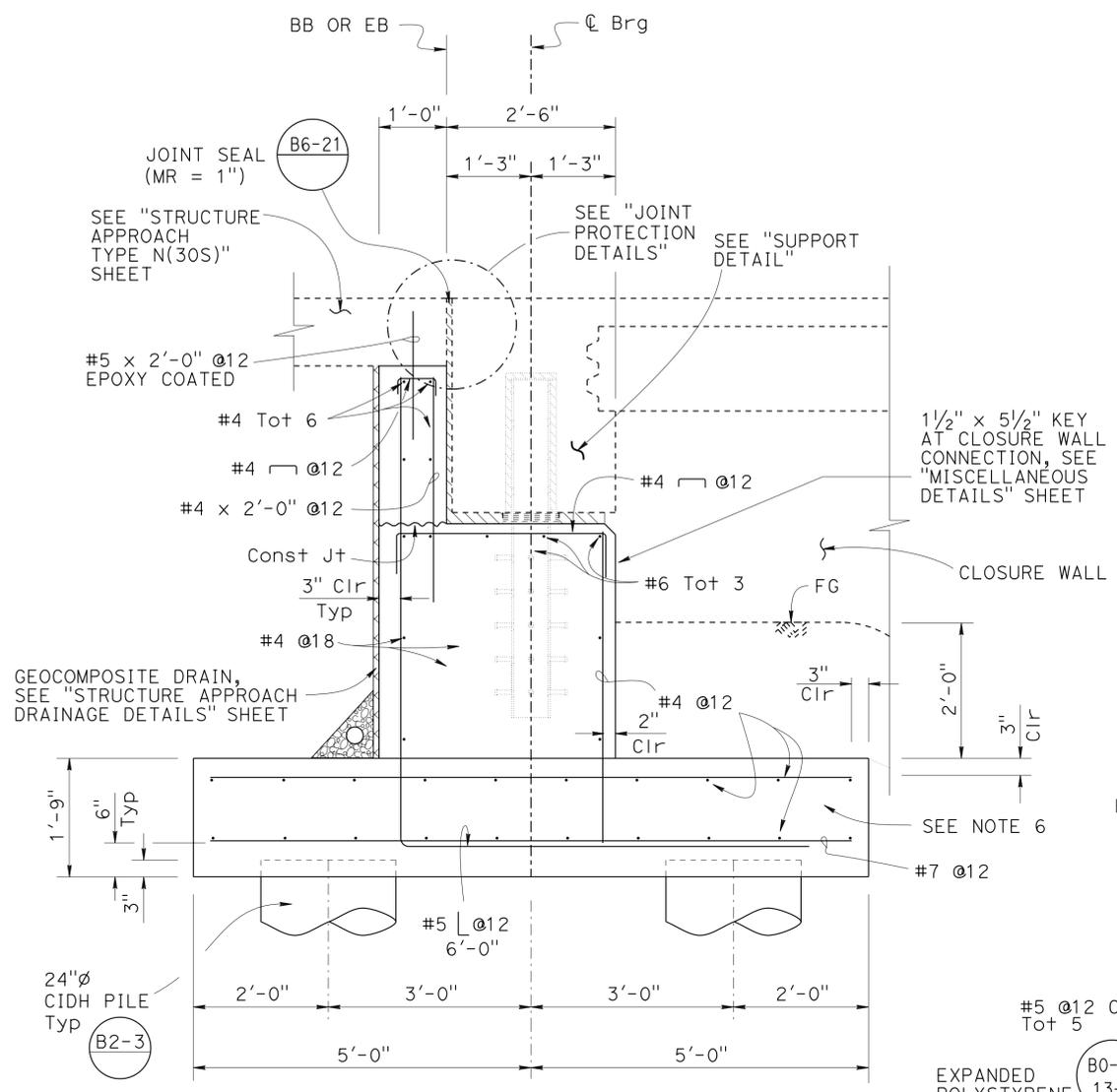
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1668	2313

Dawit Tadelle Ezer 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 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.



LEFT WIDEN ABUTMENT TYPICAL SECTION
 $\frac{3}{4}'' = 1'-0''$

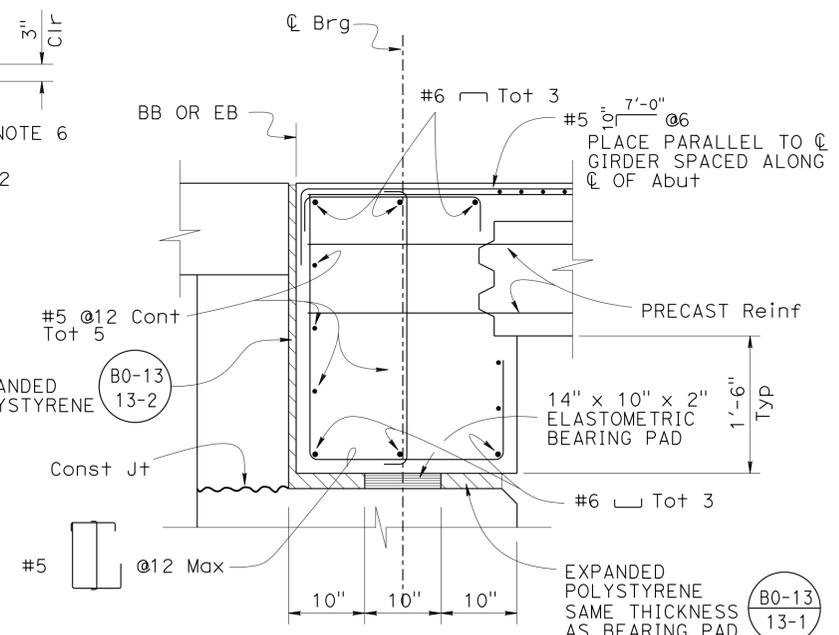
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



RIGHT WIDEN ABUTMENT TYPICAL SECTION
 $\frac{3}{4}'' = 1'-0''$

NOTES:

1. Abutment 1 shown, Abutment 4 similar
2. For Closure Wall details, see "MISCELLANEOUS DETAILS" sheet
3. For Drainage details See, "ABUTMENT DETAILS NO. 3" and "STRUCTURE APPROACH DRAINAGE DETAILS" sheet
4. For Utility detail, see "ABUTMENT DETAILS NO. 3" sheet
5. Max height of fill material behind and in front of Closure Wall not exceed 2 ft
6. For Joint Protection details, see "ABUTMENT DETAILS NO. 4" sheet



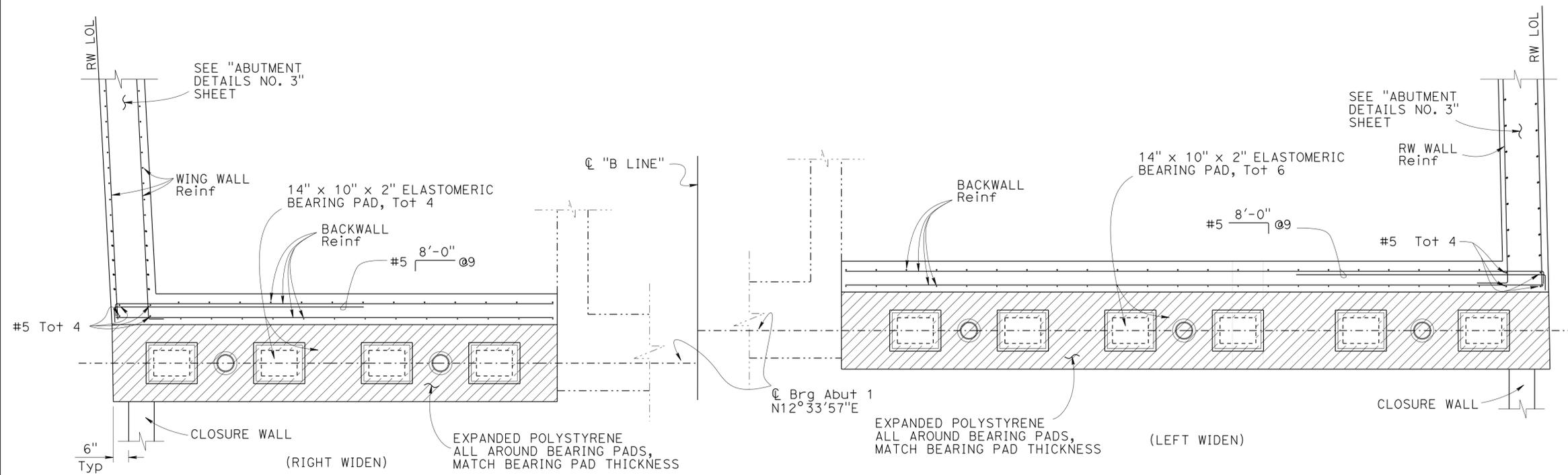
SUPPORT DETAIL
 $1'' = 1'-0''$

LEGEND:

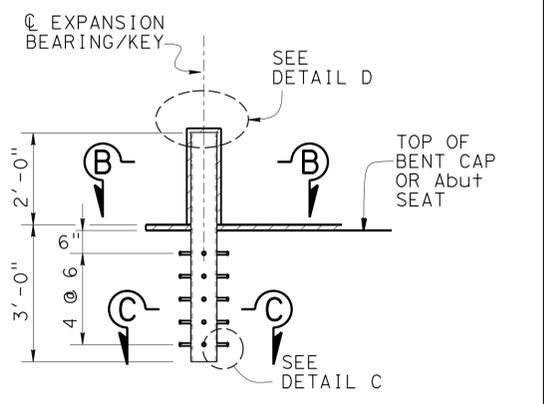
- Indicates New Construction
- - - - Indicates Existing Structure

DESIGN BY HOMA IRANINEJADIAN CHECKED SHARAREH BIKAE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-0870 POST MILE 40.46	VIA VERDE UNDERCROSSING (WIDEN) ABUTMENT DETAILS NO. 1	
DETAILS BY ANTONETTE L. ONG CHECKED SHARAREH BIKAE		UNIT: 3622 PROJECT NUMBER & PHASE: 071300007-1	CONTRACT NO.: 07-1193U1	REVISION DATES	SHEET 6 OF 35
QUANTITIES BY HOMA IRANINEJADIAN CHECKED BRIJESH PATEL		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	DISREGARD PRINTS BEARING EARLIER REVISION DATES	05/23/14 07/24/14 01/28/15	

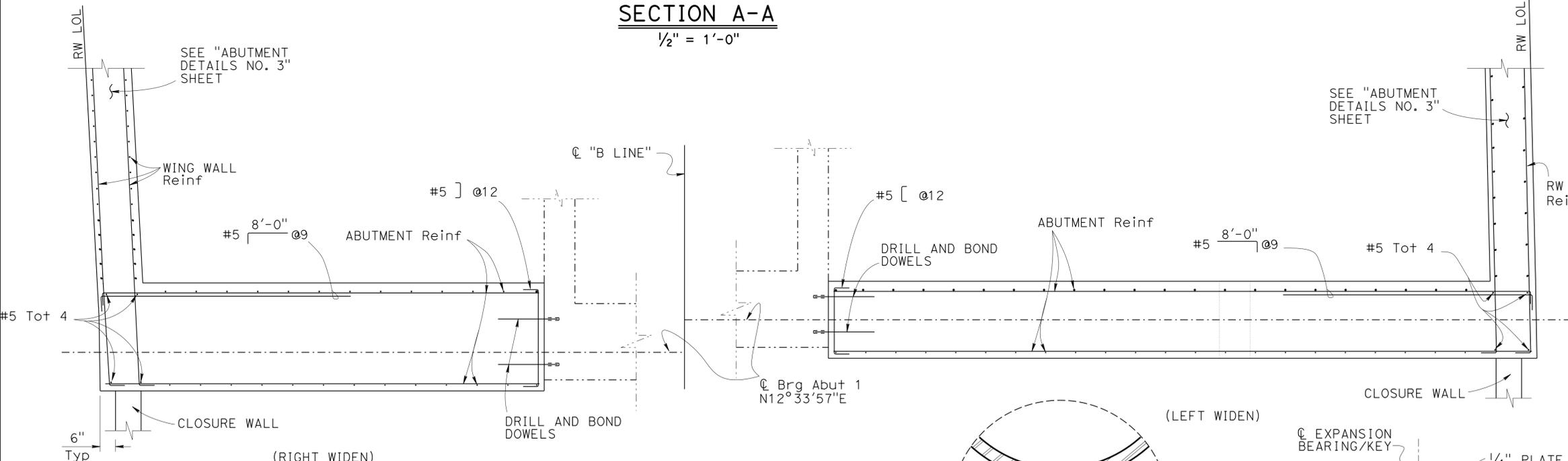
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1669	2313
<i>Davit T. Worku</i> REGISTERED CIVIL ENGINEER			10/01/14 DATE	Dawit T. Worku No. C60711 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA	
6-1-15 PLANS APPROVAL DATE					
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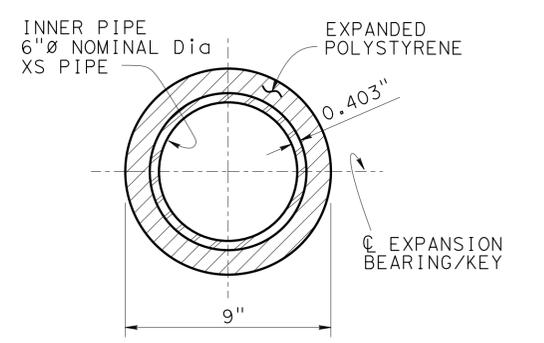
SECTION A-A
1/2" = 1'-0"



EXPANSION BEARING/KEY
1/2" = 1'-0"



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

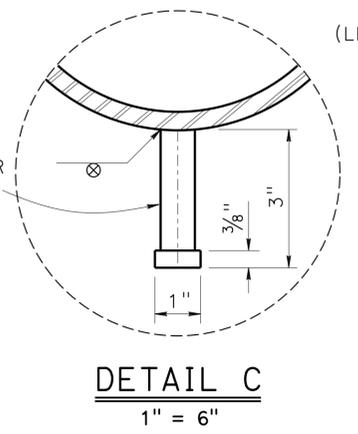


SECTION B-B
3" = 1'-0"

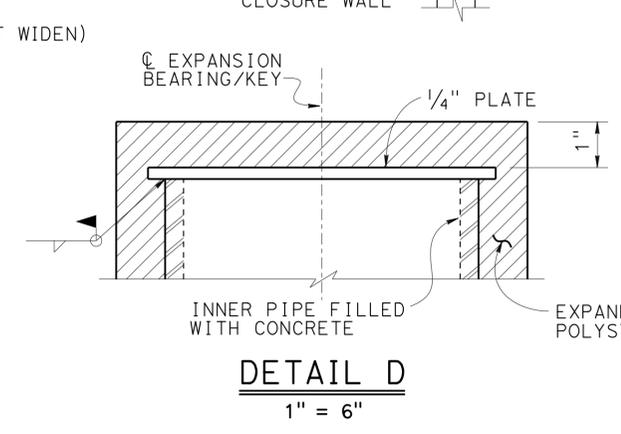
NOTE:
Abutment 1 shown, Abutment 4 similar

- LEGEND:**
- Indicates New Construction
 - - - - - Indicates Existing Structure
 - ▨ Indicates Expanded Polystyrene

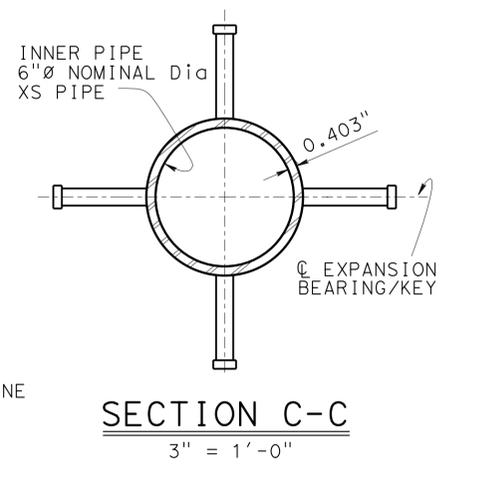
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



DETAIL C
1" = 6"



DETAIL D
1" = 6"

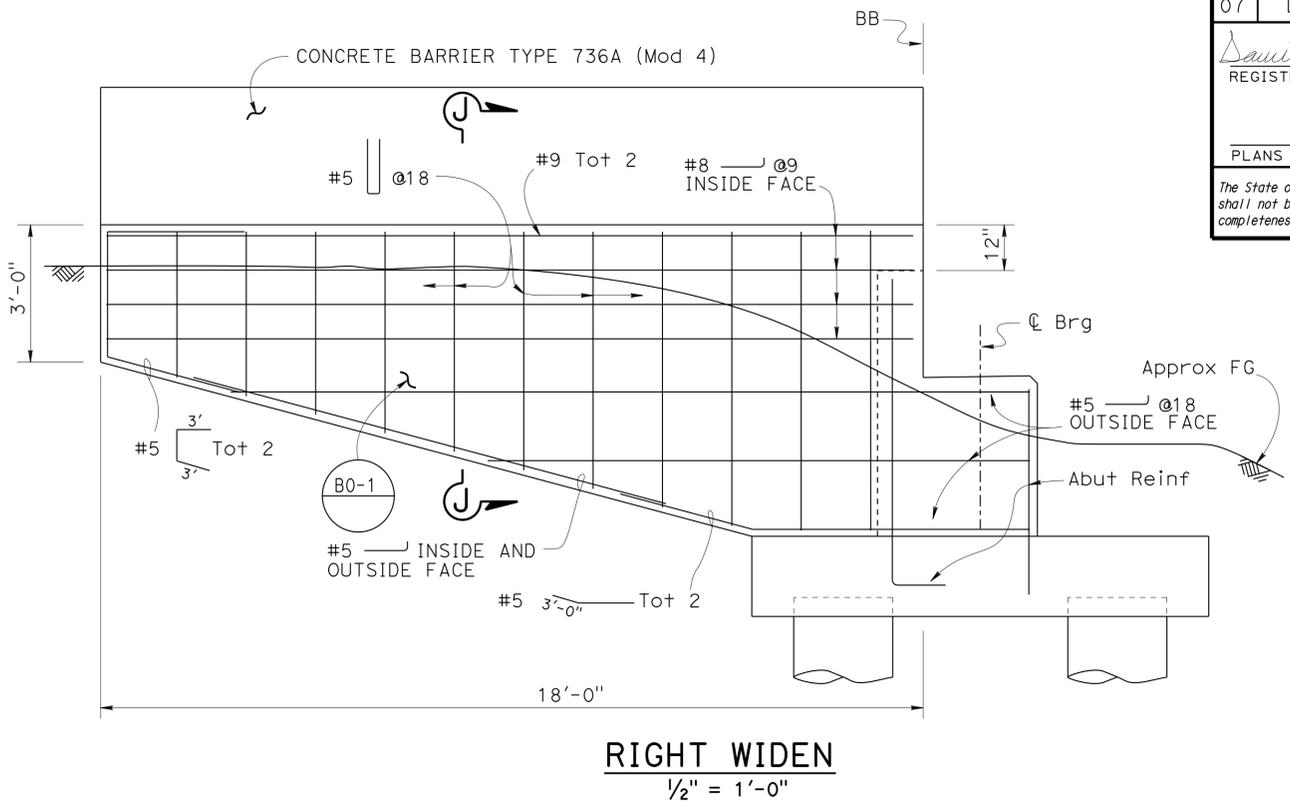
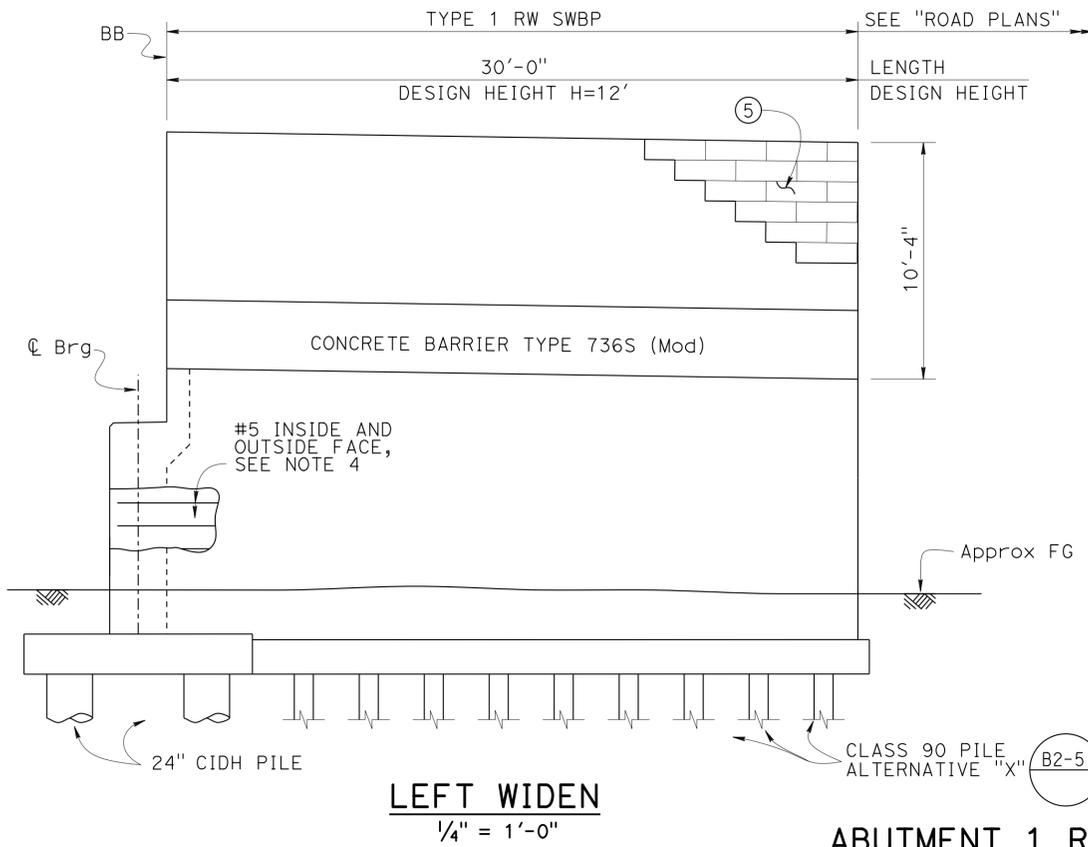


SECTION C-C
3" = 1'-0"

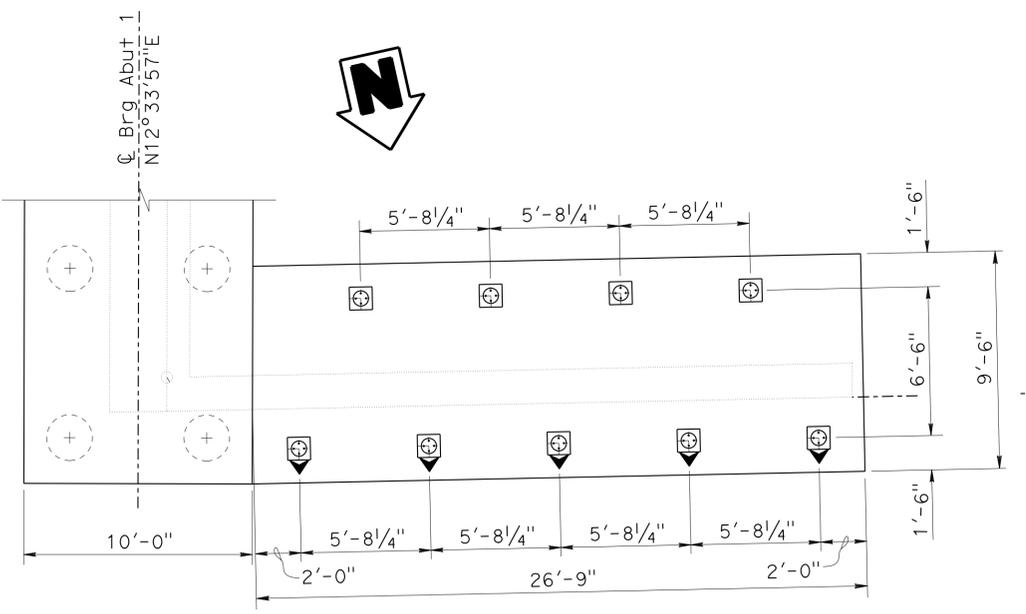
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY HOMA IRANINEJADIAN	CHECKED SHARAREH BIKAAE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	53-0870	VIA VERDE UNDERCROSSING (WIDEN) ABUTMENT DETAILS NO. 2
	DETAILS	BY ANTONETTE L. ONG	CHECKED SHARAREH BIKAAE			POST MILE	40.46	
	QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL			CONTRACT NO.:	07-1193U1	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1		CONTRACT NO.: 07-1193U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES
				0 1 2 3		REVISION DATES		SHEET 7 OF 35

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1670	2313

Davit T. Worku 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 No. C60711
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ABUTMENT 1 RETAINING WALL ELEVATION



LEFT WIDEN, ABUTMENT 1 RETAINING WALL FOOTING

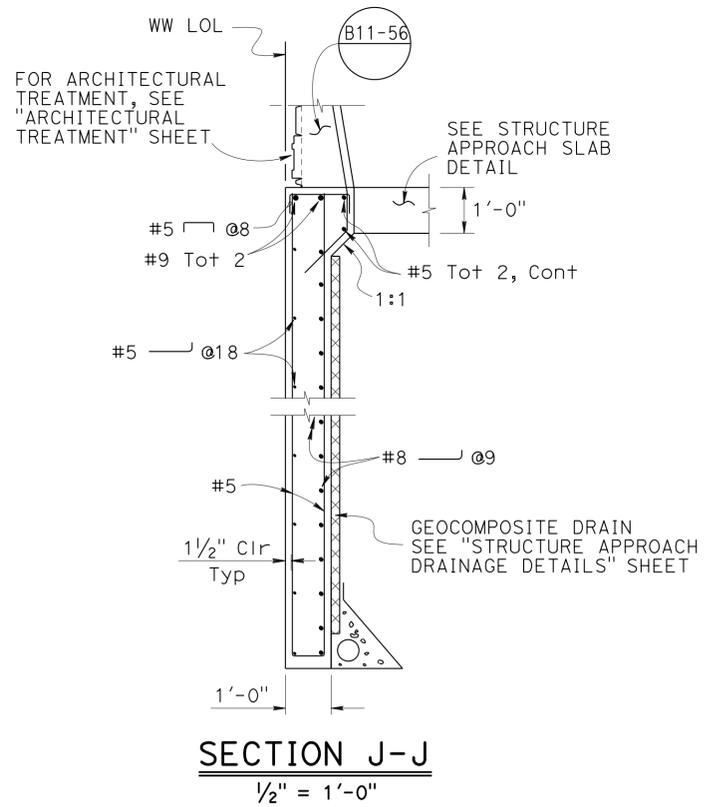
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTES:

- Abutment 1 Left shown, Abutment 4 Left similar Abutment 1 Right shown, Abutment 4 Right similar
- For Retaining Wall details and Concrete Barrier Type 736S (Mod) details, see "RETAINING WALL TYPE 1SWBP - DETAILS NO. 1 & 2" sheets
- For Reinforcing bars, see "RETAINING WALL TYPE 1SWBP-DETAILS NO. 1 & 2" sheets
- Continue #5 horizontal bars into the Abutment stem
- For Architectural details on Sound Wall, see "ROAD PLANS"

LEGEND:

- Indicates Class 90 Pile Alternative "X" Battered Piles 3:1
- Indicates Class 90 Pile Alternative "X" Straight Piles



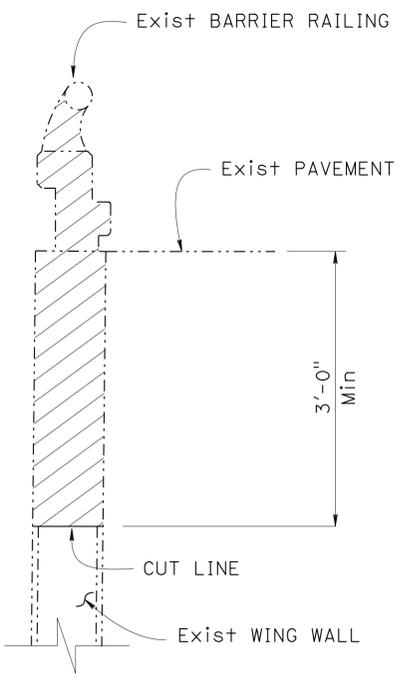
SECTION J-J

DESIGN	BY HOMA IRANINEJADIAN	CHECKED SHARAREH BIKAAE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	53-0870
DETAILS	BY K. FARAHZADIYAZDI/A. ONG	CHECKED SHARAREH BIKAAE			POST MILE	40.46
QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL			VIA VERDE UNDERCROSSING (WIDEN) ABUTMENT DETAILS NO. 3	

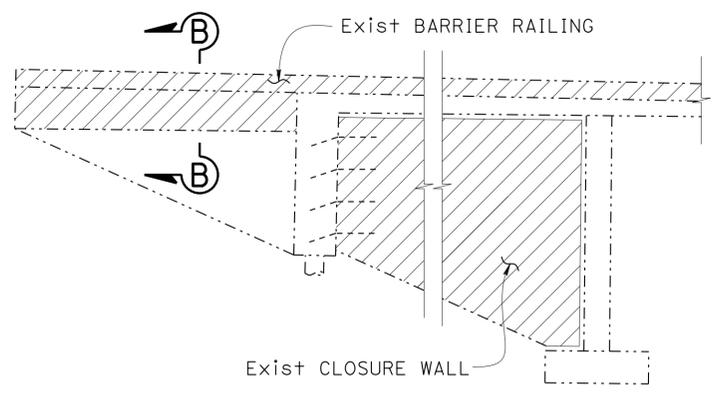
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1671	2313

Dawit Tadelle Esq. 10/01/14
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REGISTERED PROFESSIONAL ENGINEER
 Dawit T Worku
 No. C60711
 Exp. 12-31-14
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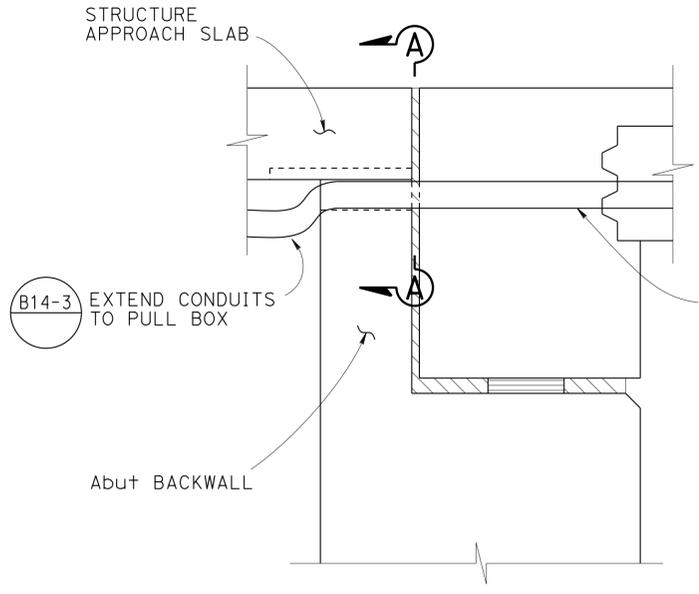


SECTION B-B
NO SCALE

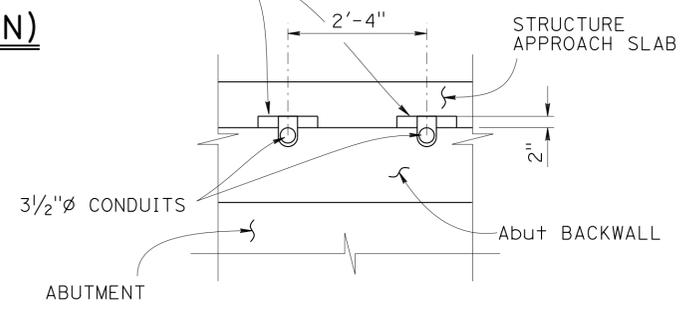


EXISTING WINGWALL AND CLOSURE WALL ELEVATION
NO SCALE

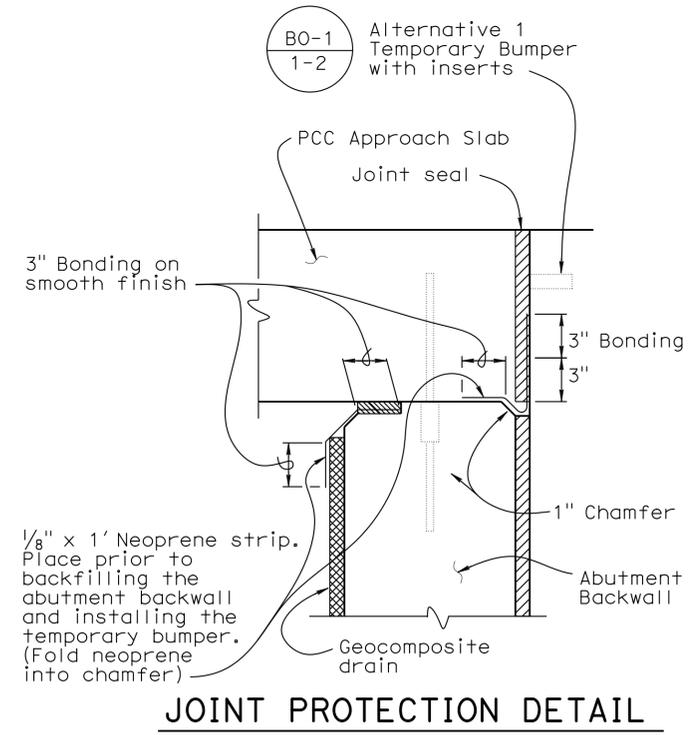
NOTES:
Remove all existing Closure Wall
Left and Right Widen Pier 2 and 3



UTILITY DETAIL (LEFT WIDEN)
1" = 1'-0"

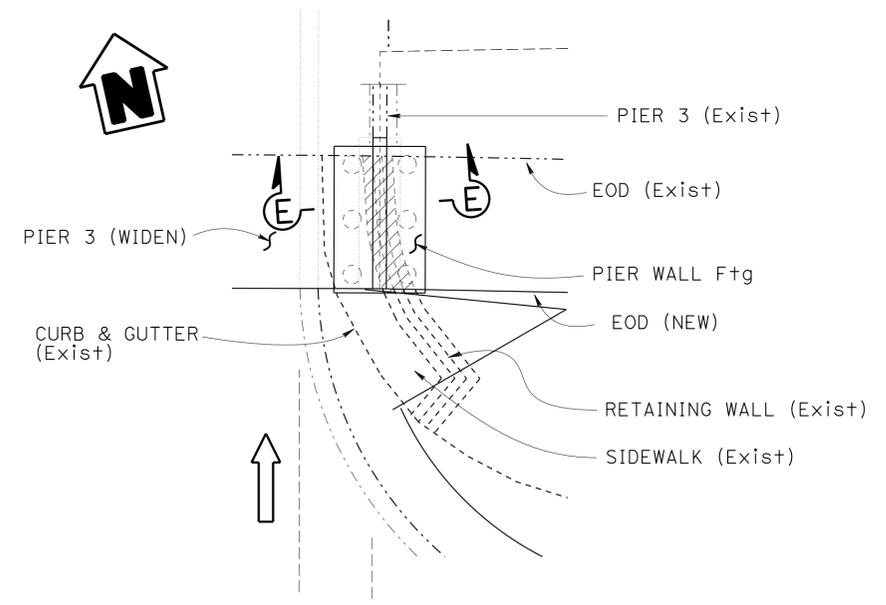


SECTION A-A
NO SCALE



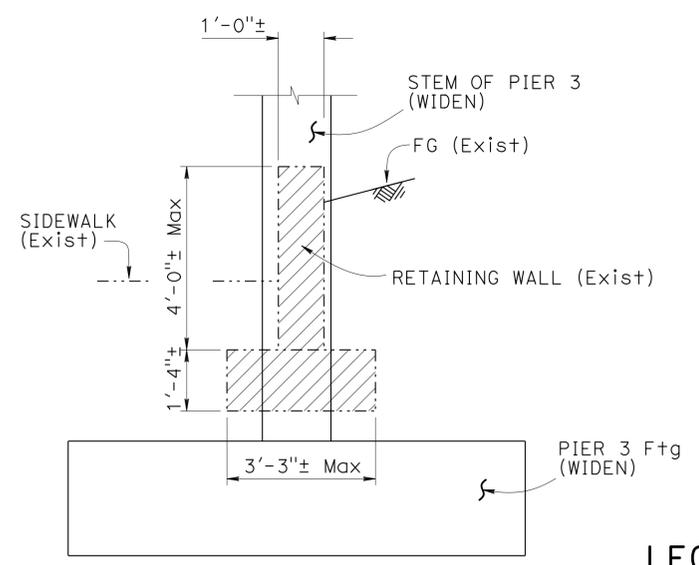
JOINT PROTECTION DETAIL
No Scale

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



EXISTING RW PARTIAL PLAN
1" = 10'-0"

NOTE:
Existing Retaining Wall and Footing @ Pier 3 Right Widen to be removed



SECTION E-E
NO SCALE

LEGEND:
 ——— Indicates New Construction
 - - - - - Indicates Existing Structure
 ▨▨▨▨▨ Indicates Bridge Removal (Portion)

DESIGN	BY HOMA IRANINEJADIAN	CHECKED SHARAREH BIKAAE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	VIA VERDE UNDERCRSSING (WIDEN) ABUTMENT DETAILS NO. 4			
DETAILS	BY ANTONETTE L. ONG	CHECKED SHARAREH BIKAAE			53-0870				
QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL			40.46				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3622	PROJECT NUMBER & PHASE: 0713000007-1	CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 9 OF 35

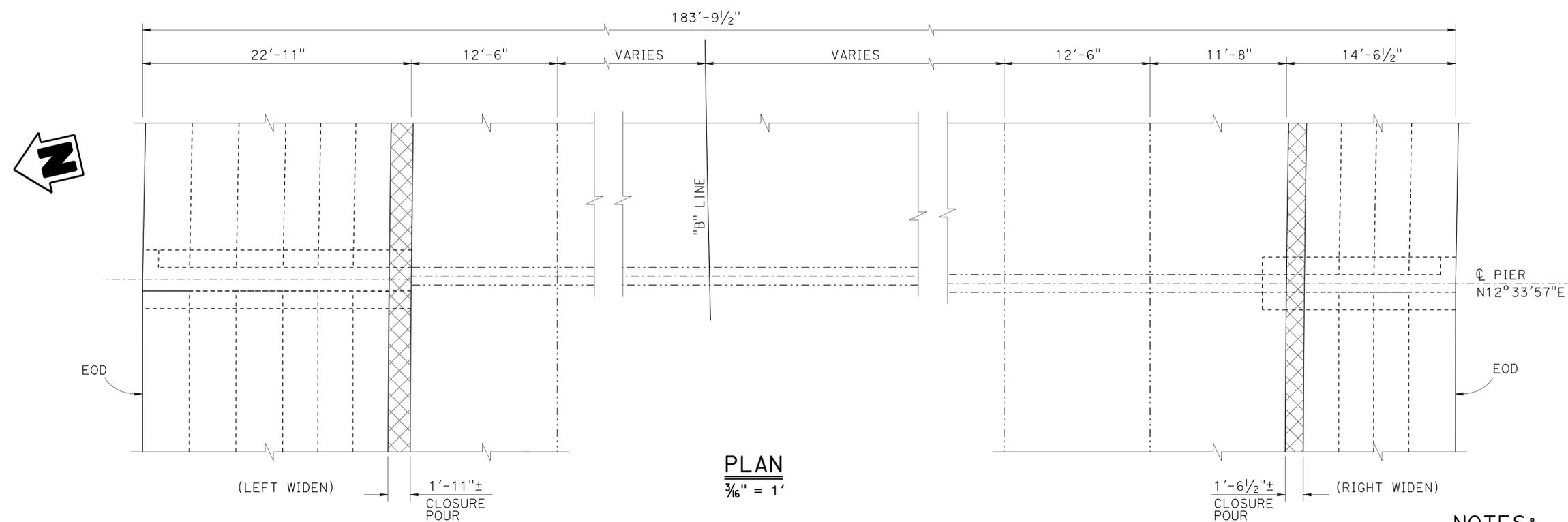
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1672	2313

Davit Tadelle Esq 10/01/14
 REGISTERED CIVIL ENGINEER DATE

6-1-15
 PLANS APPROVAL DATE

Davit T Worku
 No. C60711
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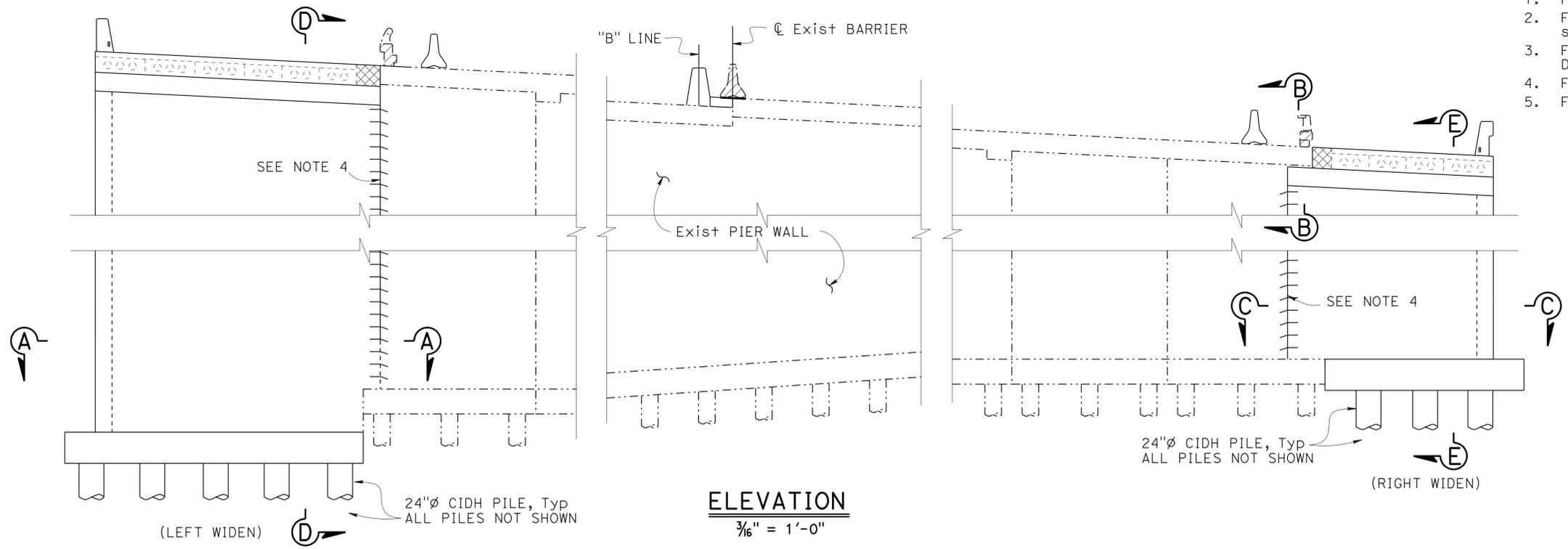
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PLAN
 $\frac{3}{16}'' = 1'$

- LEGEND:**
- Indicates New Construction
 - - - - Indicates Existing Structure
 - ▨ Indicates Closure Pour
 - ▧ Bridge Removal (Portion)

- NOTES:**
- Pier 2 shown, Pier 3 similar
 - For Section A-A, Section C-C and Section B-B, see "PIER WALL DETAILS NO. 2" sheet
 - For Section D-D and Section E-E, see "PIER WALL DETAILS NO. 3" sheet
 - For Joint detail, see "MISCELLANEOUS DETAILS" sheet
 - For Support detail, see "PIER WALL DETAILS No. 2" Sheet



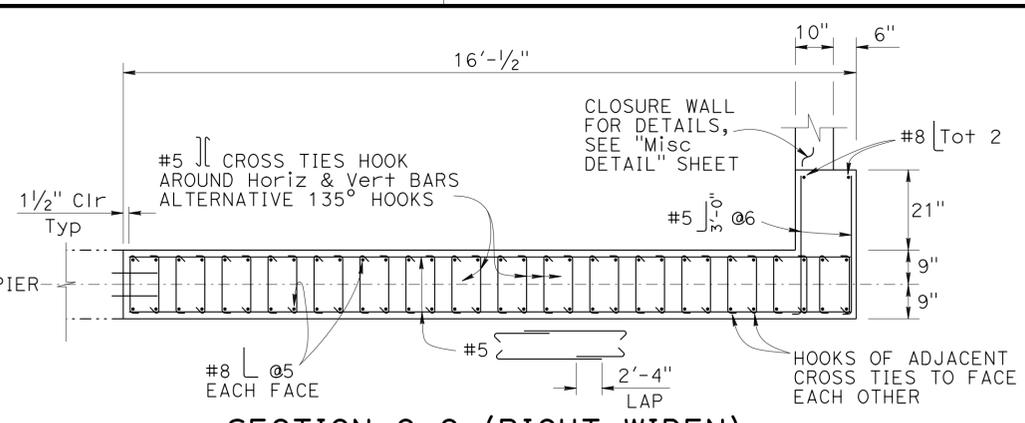
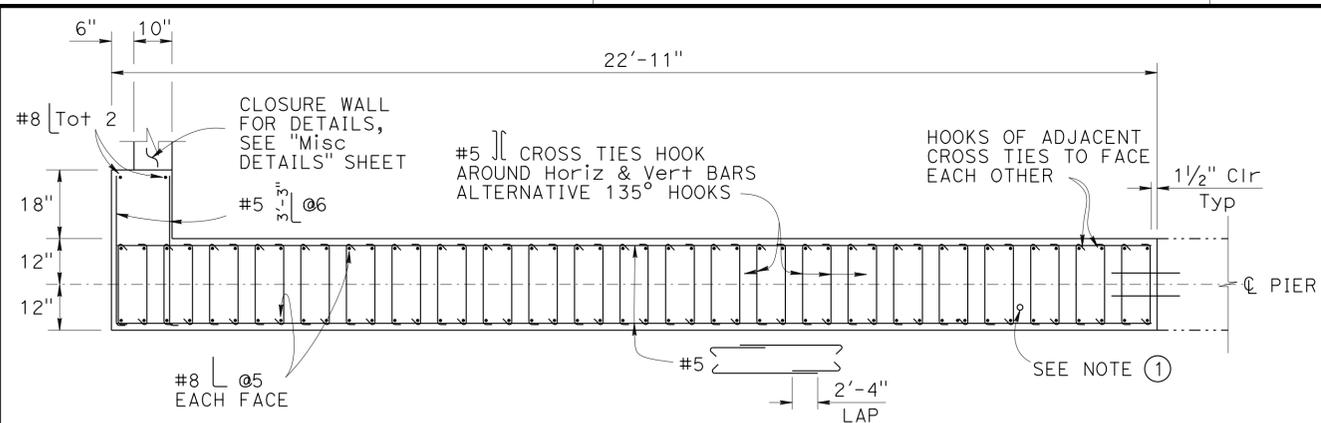
ELEVATION
 $\frac{3}{16}'' = 1'-0''$

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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN BY HOMA IRANINEJADIAN	CHECKED SHARAREH BIKAEI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-0870	VIA VERDE UNDERCROSSING (WIDEN) PIER WALL DETAILS NO. 1
	DETAILS BY K. FARAHZADIYAZDI/A. ONG	CHECKED SHARAREH BIKAEI			POST MILE 40.46	
	QUANTITIES BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1	CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES
				REVISION DATES		SHEET 10 OF 35

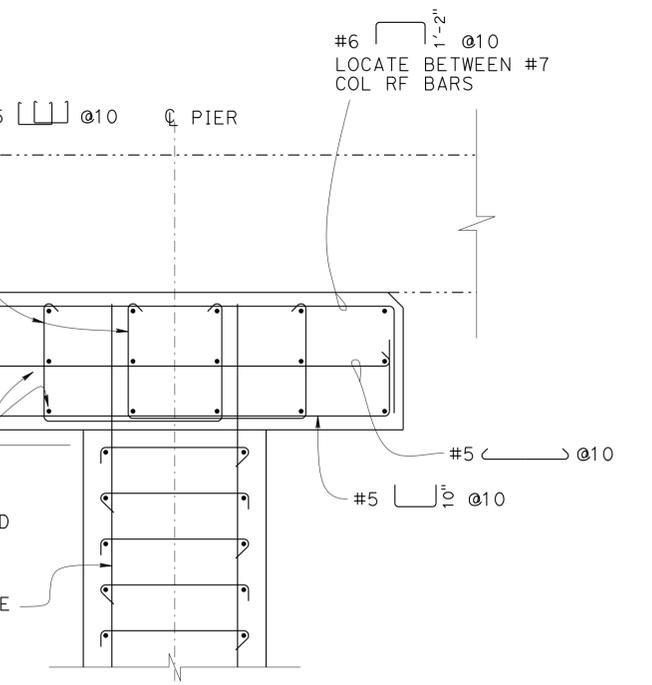
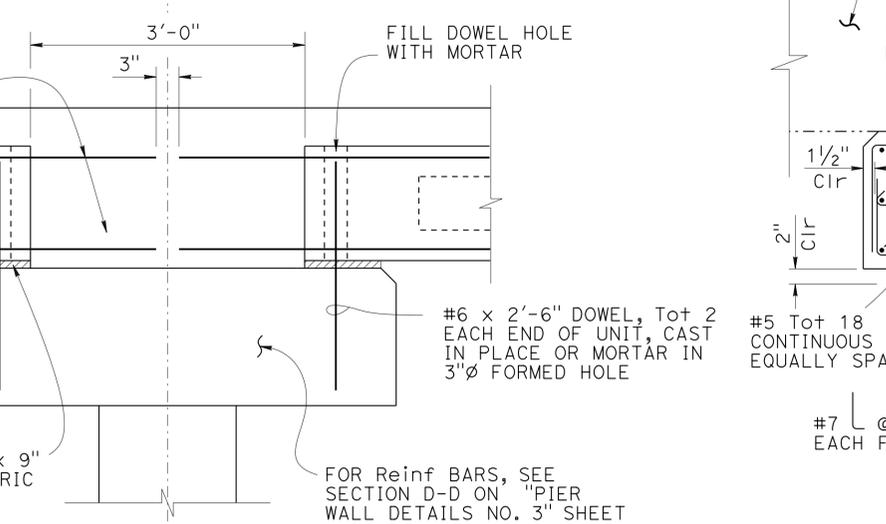
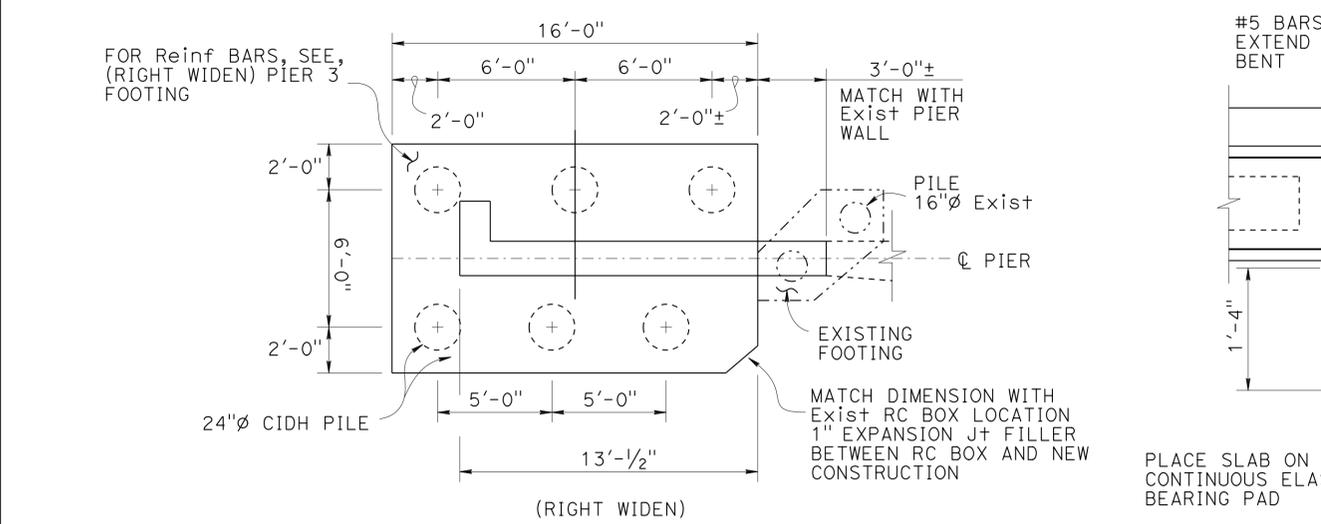
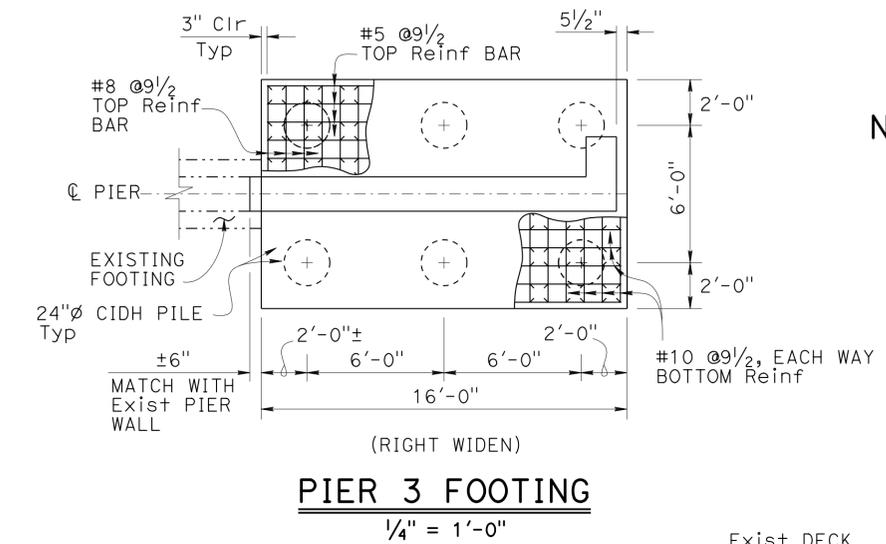
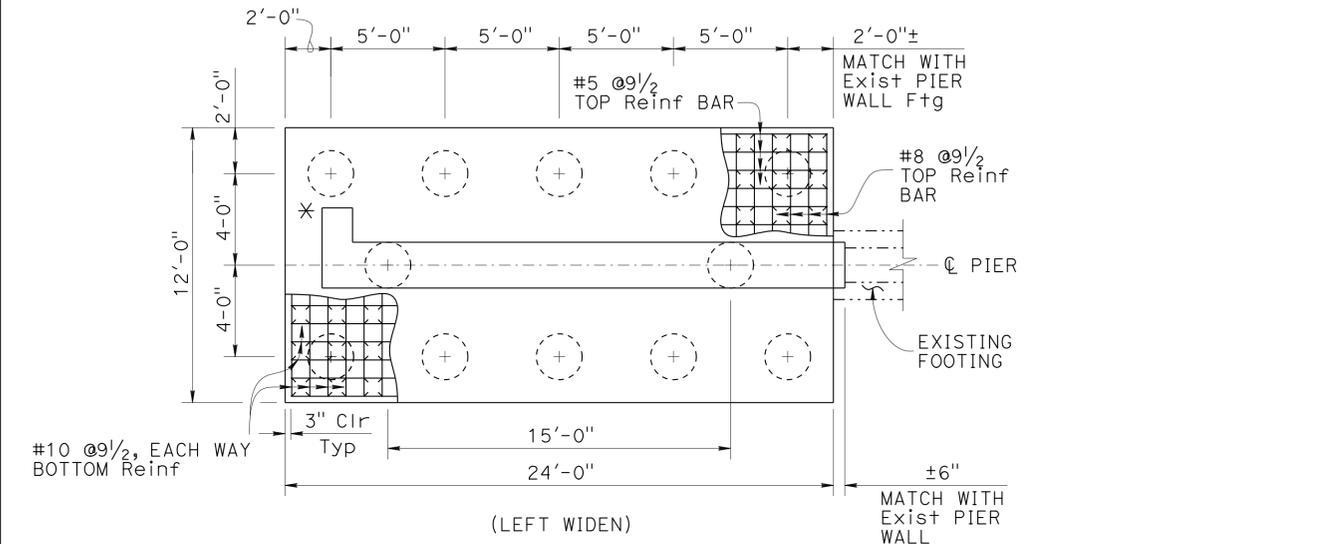
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1673	2313

Dawit Tadelle Tessema
 REGISTERED CIVIL ENGINEER DATE 10/01/14
 6-1-15
 PLANS APPROVAL DATE
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LEGEND:
 — Indicates New Construction
 - - - Indicates Existing Structure

NOTE:
 ① 1/2" Conduit @ Left Widen only, Pier 2 & 3 adjust to avoid Vertical and Horizontal Pier Wall reinforcement, see "ROAD PLANS"
 ② No two adjacent Piles shall be installed at the same time



NOTE:
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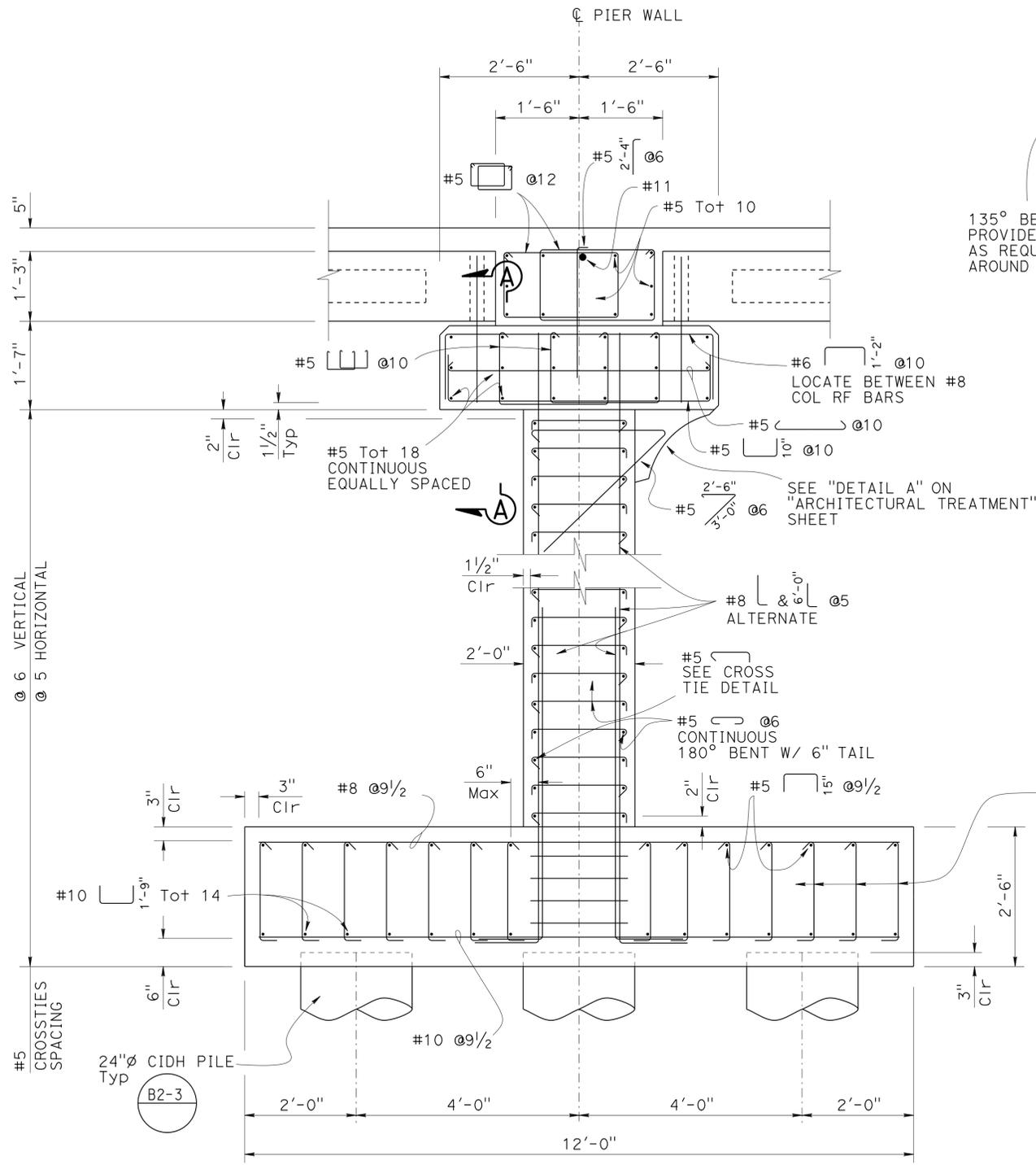
DESIGN	BY HOMA IRANINEJADIAN	CHECKED SHARAREH BIKAAE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	53-0870	VIA VERDE UNDERCROSSING (WIDEN) PIER WALL DETAILS NO. 2
DETAILS	BY K. FARAHZADIYAZDI/A. ONG	CHECKED SHARAREH BIKAAE		POST MILE	40.46	
QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL				

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1 CONTRACT NO.: 07-1193U1
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

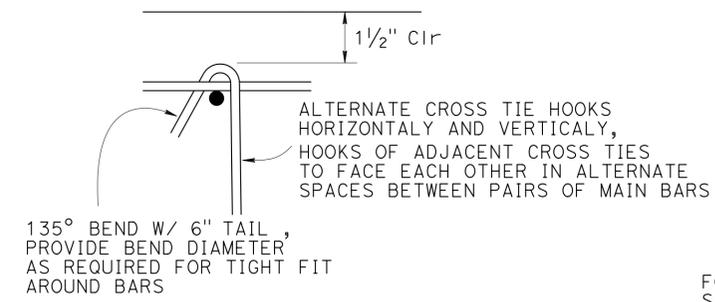
REVISION DATES	SHEET	OF
10/24/13 11/14/13 07/24/14	11	35

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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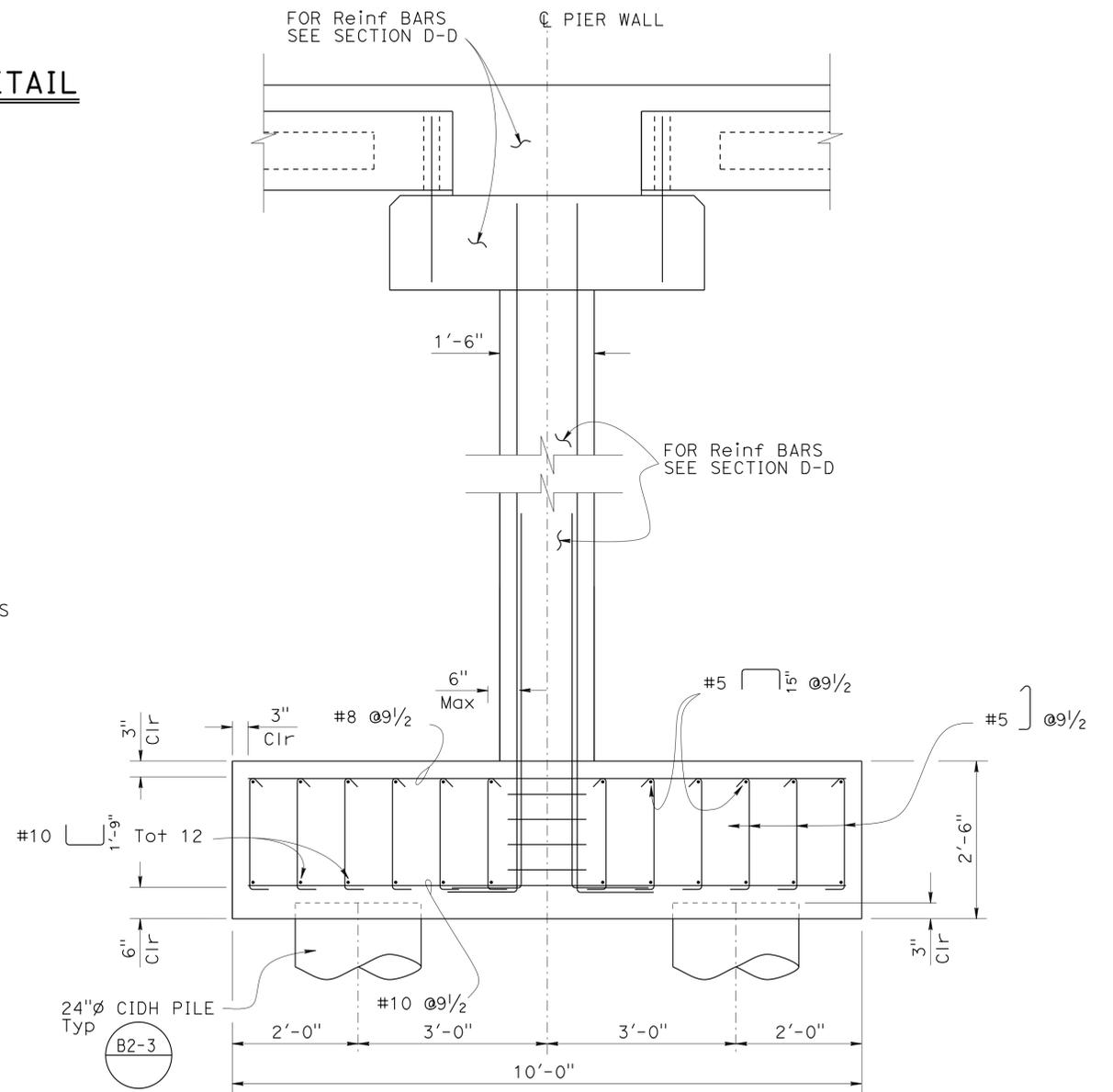
Dawit Tadelle Esq. 10/01/14
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 6-1-15
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 No. C60711
 Exp. 12-31-14
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SECTION D-D (LEFT WIDEN)
 $\frac{3}{4}'' = 1'-0''$



CROSS TIE DETAIL
 NO SCALE



SECTION E-E (RIGHT WIDEN)
 $\frac{3}{4}'' = 1'-0''$

NOTE:

- No splice allowed for vertical and horizontal Pier Wall reinforcement bars
- See "MISCELLANEOUS DETAILS" sheet for Closure Wall connection detail
- See "PIER WALL DETAILS NO. 2" sheet for Pier Wall end detail

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

DESIGN	BY HOMA IRANINEJADIAN	CHECKED SHARAREH BIKAE
DETAILS	BY ANTONETTE L. ONG	CHECKED SHARAREH BIKAE
QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

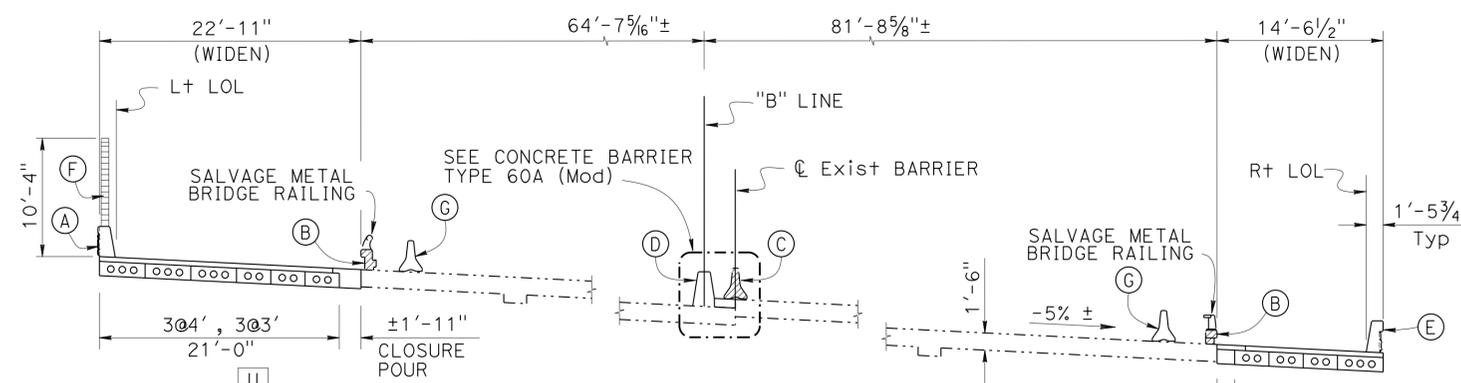
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-0870
POST MILE	40.46

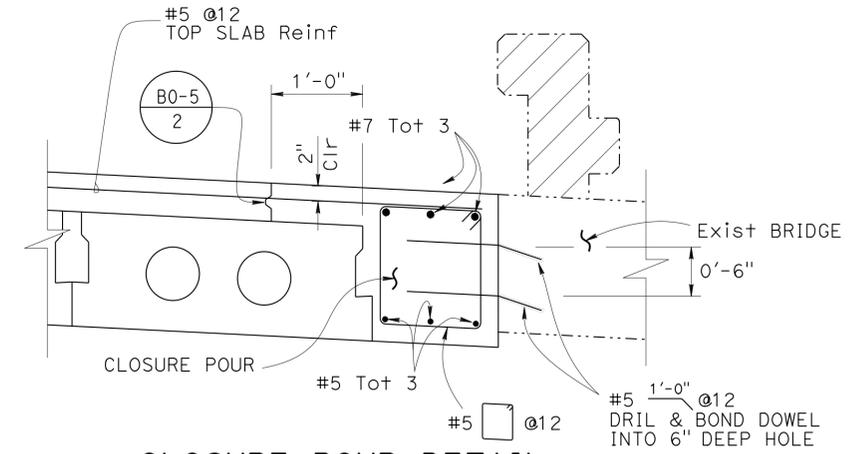
VIA VERDE UNDERCROSSING (WIDEN)
PIER WALL DETAILS NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1675	2313

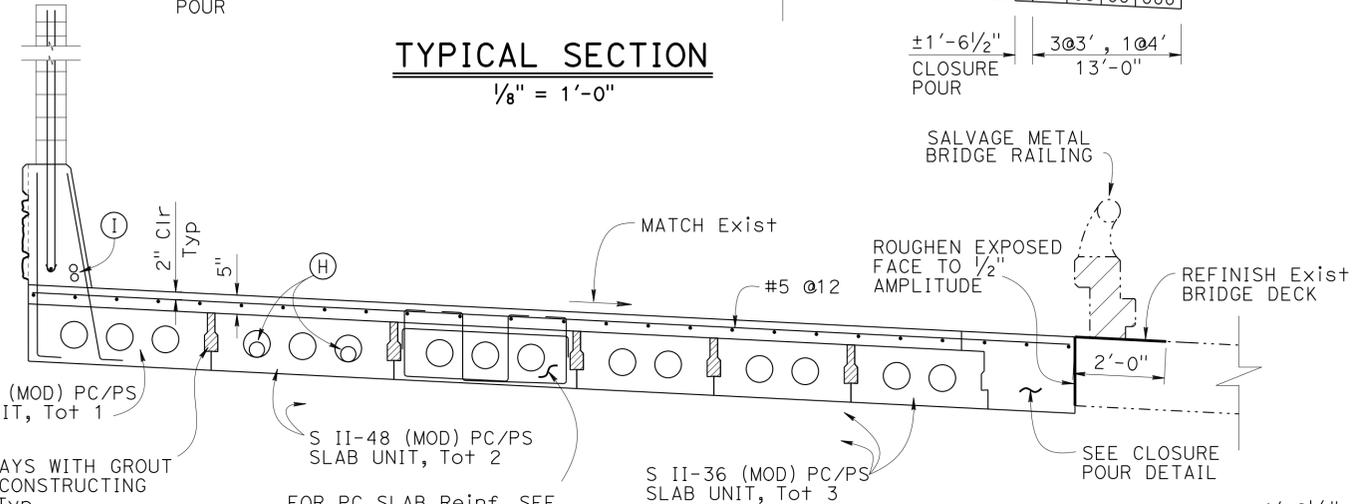
Dawit Tadelle Eger 10/01/14
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 6-1-15
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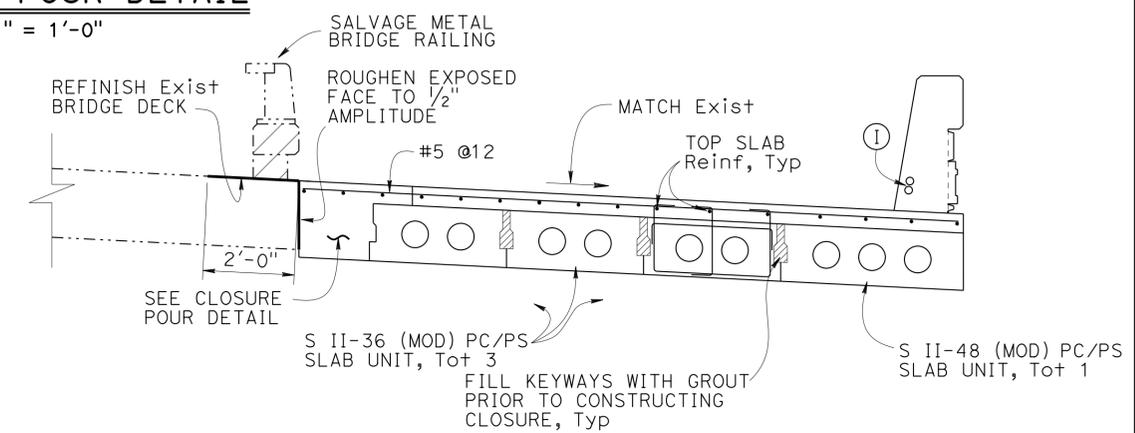
TYPICAL SECTION
1/8" = 1'-0"



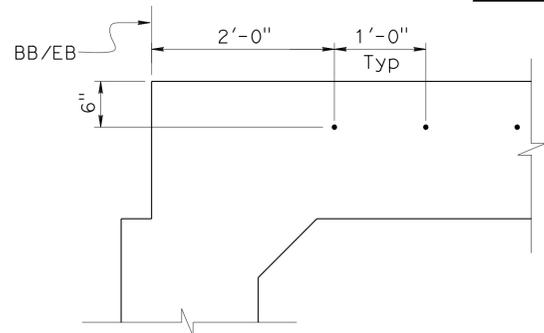
CLOSURE POUR DETAIL
1" = 1'-0"



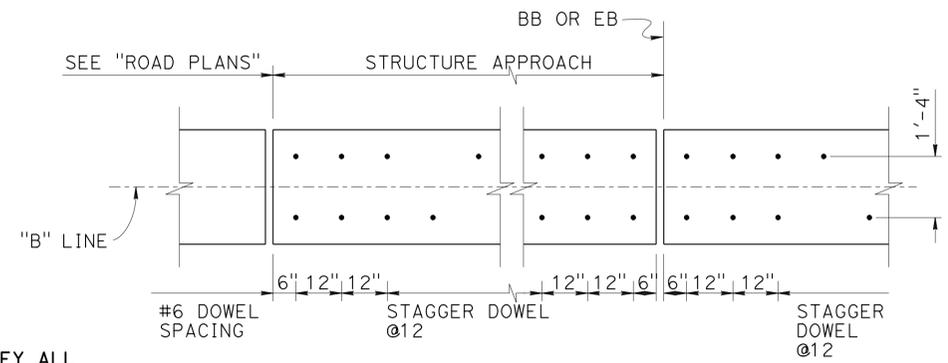
PARTIAL TYPICAL SECTION LEFT WIDEN
1/2" = 1'-0"



PARTIAL TYPICAL SECTION RIGHT WIDEN
NOTE: 1/2" = 1'-0"
Right Widen shown, Left Widen similar

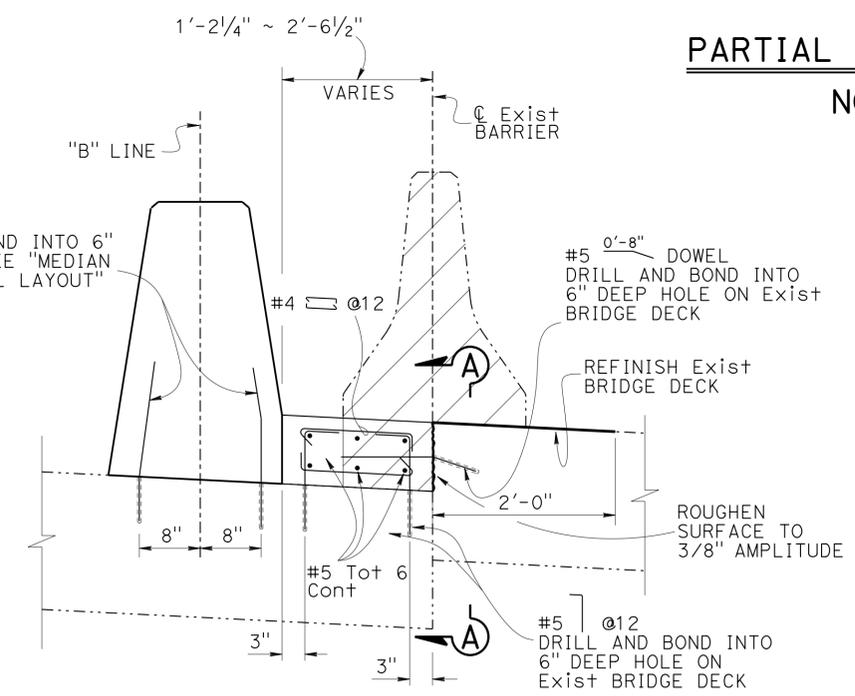


SECTION A-A
NO SCALE



MEDIAN BARRIER DOWEL LAYOUT
1/2" = 1'-0"

NOTE:
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CONCRETE BARRIER TYPE 60A (MOD)
1" = 1'-0"

- LEGEND:**
- Indicates New Construction
 - - - Indicates Existing Structure
 - ▨ Bridge Removal (Portion)

- NOTES:**
- (A) Concrete Barrier Type 736 (Mod 1), for details, see "MASONRY BLOCK SOUNDWALL ON BRIDGE" and "PRESTRESSED CONCRETE SLAB DETAILS" sheet
 - (B) Remove existing Concrete Barrier, for details, see "ABUTMENT DETAILS NO. 3" sheet
 - (C) Remove existing Concrete Barrier Type 50B (Mod)
 - (D) Concrete Barrier Type 60A (Mod) (A76A)
 - (E) Concrete Barrier Type 736 (Mod 4), for details, see "PRESTRESS CONCRETE SLAB DETAILS" sheet, for Architectural treatment, see "ARCHITECTURAL TREATMENT (RIGHT WIDEN)" sheet
 - (F) Sound Wall Masonry Block, for details, see "MASONRY BLOCK SOUNDWALL ON BRIDGE" sheet
 - (G) Temporary Railing Type K, see "ROAD PLANS" sheet
 - (H) 2-3/2"ø Conduit, for details, see "ABUTMENT DETAILS NO. 4" sheet
 - (I) 2-2"ø Conduit, see "ROAD PLANS"

DESIGN	BY HOMA IRANINEJADIAN	CHECKED SHARAREH BIKAAE
DETAILS	BY K. FARAHZADIYAZDI/A. ONG	CHECKED SHARAREH BIKAAE
QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-0870	VIA VERDE UNDERCROSSING (WIDEN)
POST MILE	40.46	
TYPICAL SECTION		

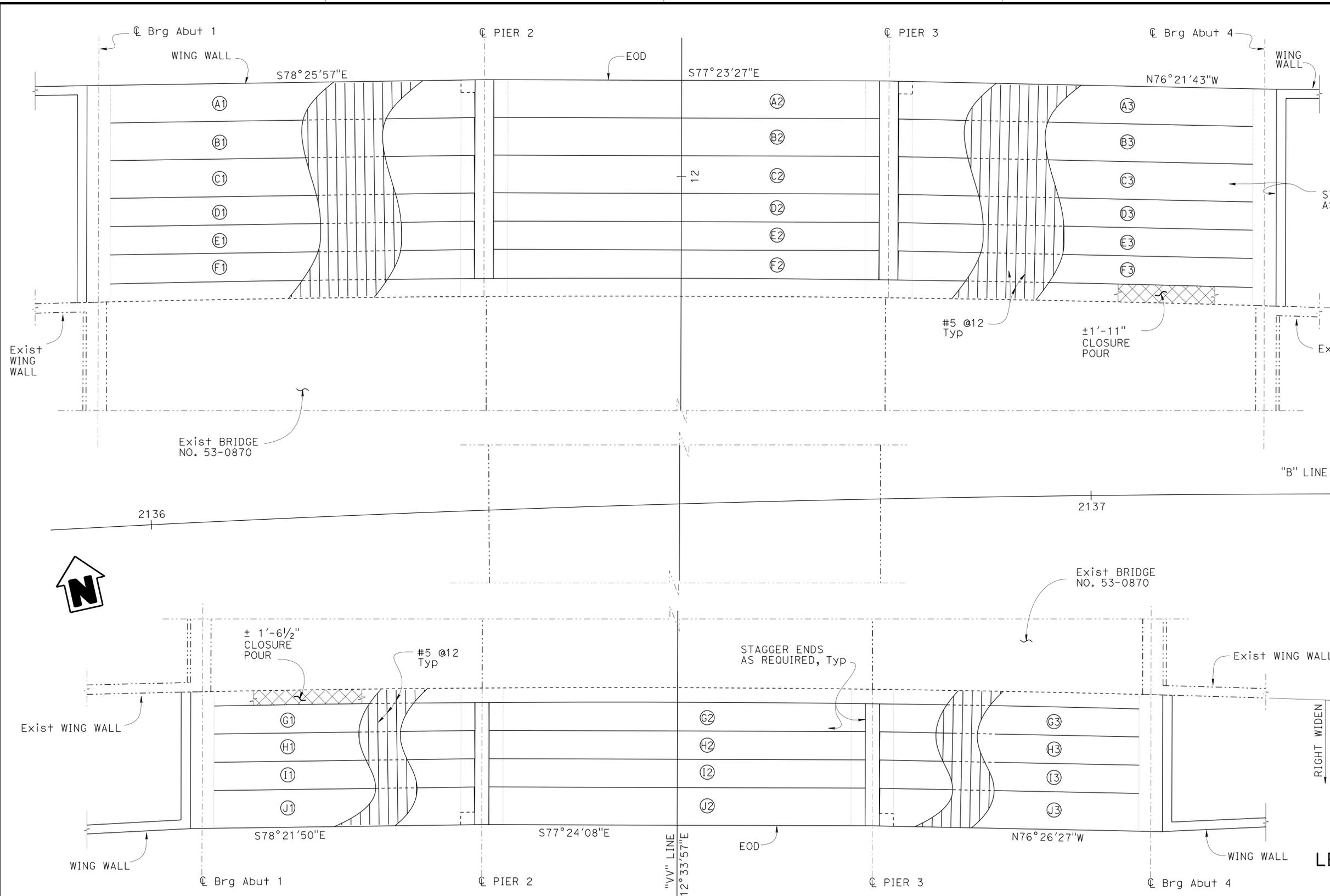
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1676	2313

Davit Tadelle Esq 10/01/14
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 CIVIL
 STATE OF CALIFORNIA

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SLAB LAYOUT
 3/16" = 1'-0"

NOTE:
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LEGEND:

- Indicates New Construction
- - - Indicates Existing Structure
- Indicates Slab Unit Designation
- ⊗ Indicates Closure Pour

DESIGN BY HOMA IRANINEJADIAN CHECKED SHARAREH BIKAAE DETAILS BY K. FARAHZADIYAZDI/A. ONG CHECKED SHARAREH BIKAAE QUANTITIES BY HOMA IRANINEJADIAN CHECKED BRIJESH PATEL	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-0870	VIA VERDE UNDERCROSSING (WIDEN) SLAB LAYOUT
			POST MILE 40.46	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1 CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			REVISION DATES 10/24/13 11/29/13 01/23/14	SHEET OF 14 35

USERNAME => s125624 DATE PLOTTED => 18-MAY-2015 TIME PLOTTED => 14:08

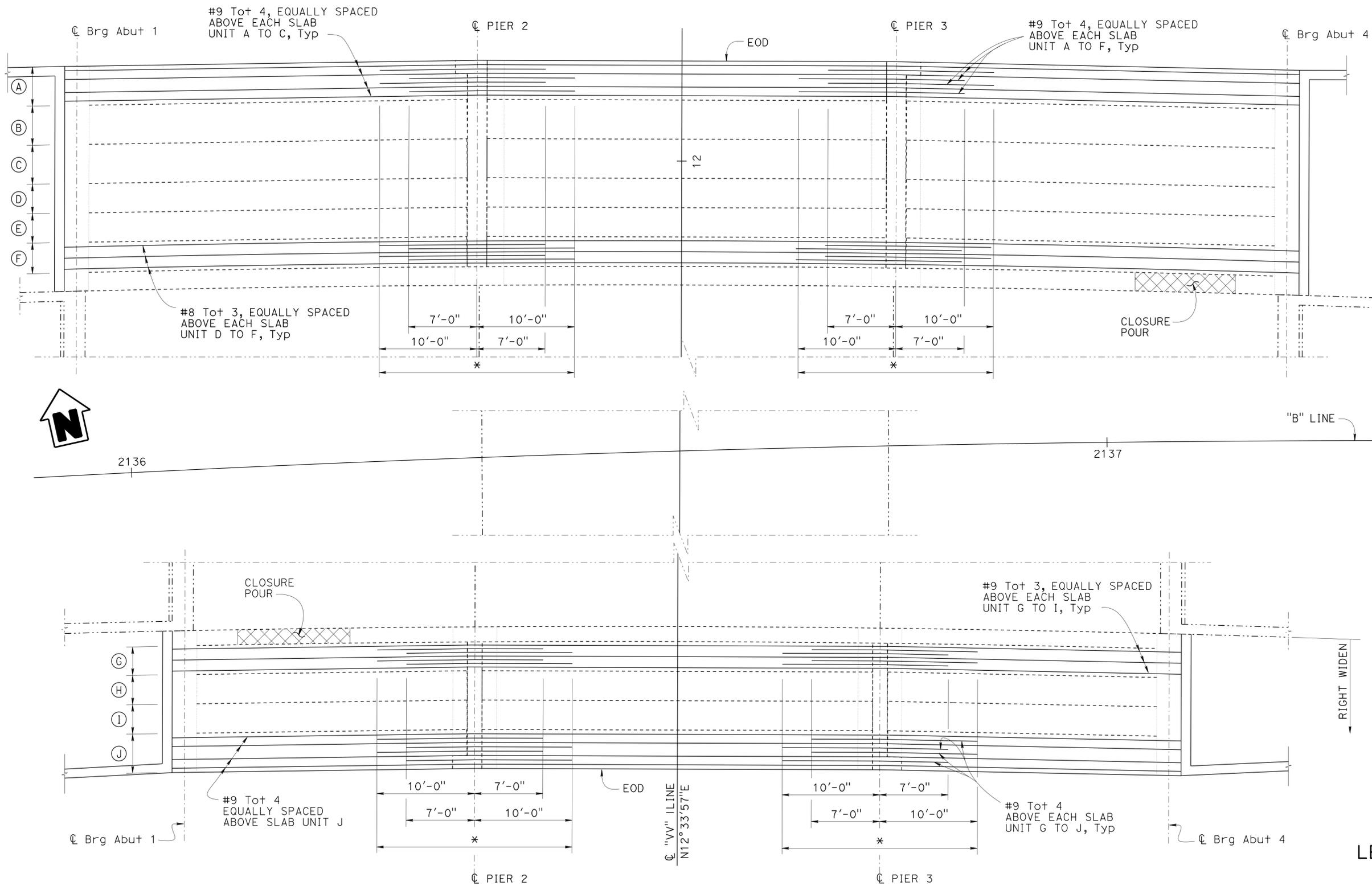
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1677	2313

Davit Tadelle Esq 10/01/14
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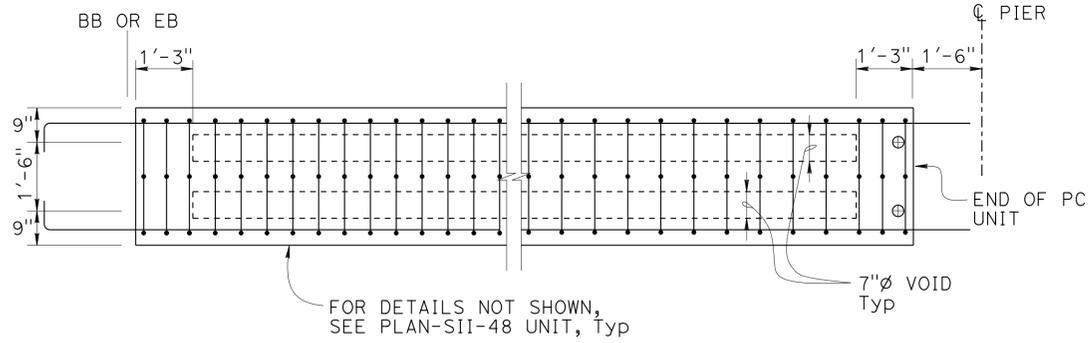
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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

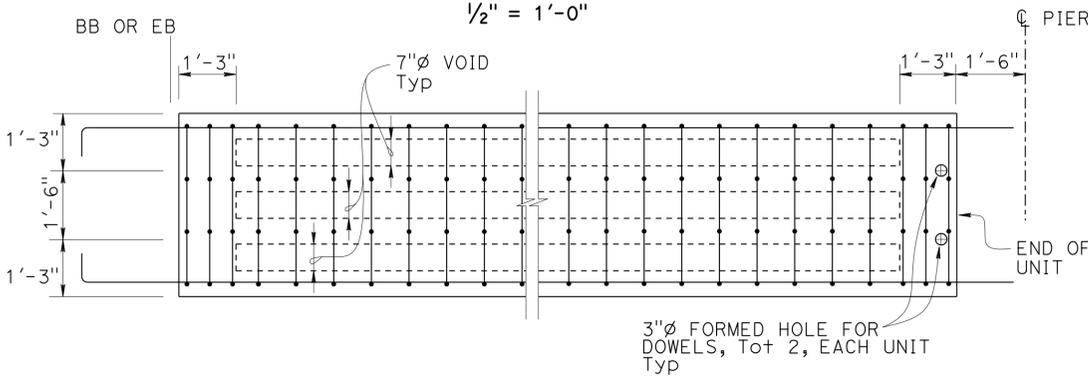
- LEGEND:**
- Indicates New Construction
 - - - Indicates Existing Structure
 - * Indicate No Splice Zone
 - ▒ Indicates Closure Pour

DESIGN BY HOMA IRANINEJADIAN CHECKED SHARAREH BIKAEI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-0870	VIA VERDE UNDERCROSSING (WIDEN)	
			POST MILE 40.46		TOP SLAB REINFORCEMENT
DETAILS BY K. FARAHZADIYAZDI/A. ONG CHECKED SHARAREH BIKAEI	QUANTITIES BY HOMA IRANINEJADIAN CHECKED BRIJESH PATEL	UNIT: 3622 PROJECT NUMBER & PHASE: 071300007-1	CONTRACT NO.: 07-1193U1	REVISION DATES 01/23/14 07/08/13 10/08/13	SHEET 15 OF 35

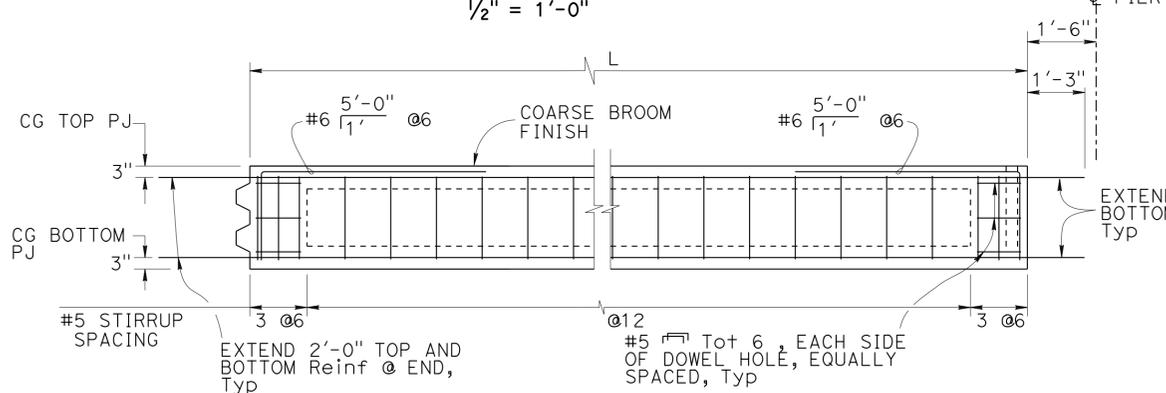
USERNAME => s125624 DATE PLOTTED => 18-MAY-2015 TIME PLOTTED => 14:08



PLAN-SII-36 (MOD) UNIT, TYPICAL

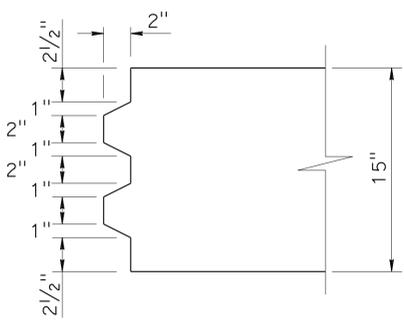


PLAN-SII-48 (MOD) UNIT, TYPICAL



ELEVATION-TYPICAL

NO SCALE

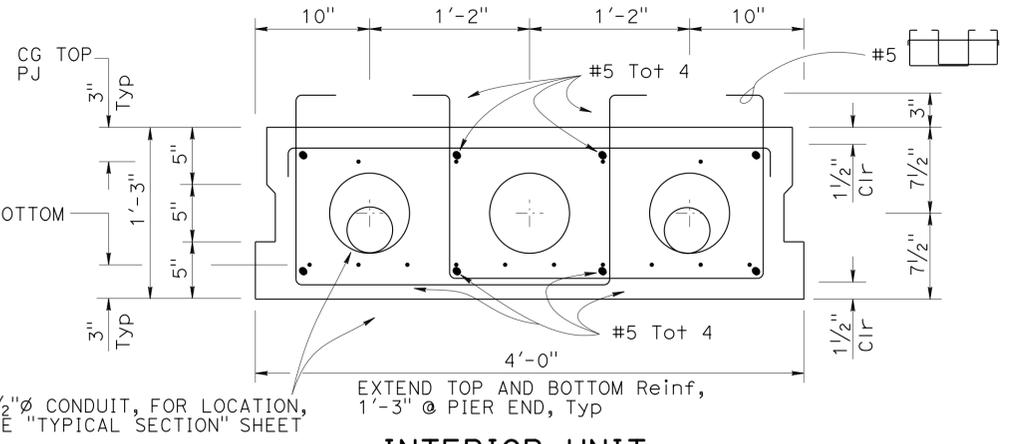


PRECAST END DETAIL AT ABUTMENT

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

3/2"Ø CONDUIT, FOR LOCATION, SEE "TYPICAL SECTION" SHEET

NO KEY ON EXTERIOR SURFACE



INTERIOR UNIT SII-48 (MOD), TYPICAL

3/2"Ø CONDUIT, FOR LOCATION, SEE "TYPICAL SECTION" SHEET

#5
Ø8 (LEFT WIDEN)
Ø16 (RIGHT WIDEN)

3" (LEFT WIDEN)
6" (RIGHT WIDEN)

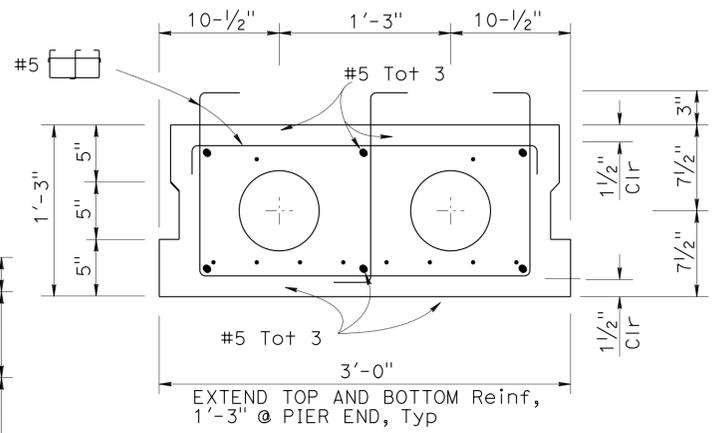
#5 Cont, Tot 2

FOR DETAILS NOT SHOWN, SEE INTERIOR UNIT SII-48



EXTERIOR UNIT SII-48 (MOD), TYPICAL

1/2" = 1'-0"



INTERIOR UNIT SII-36 (MOD), TYPICAL

1/2" = 1'-0"

LOCATION	LENGTH	TYPE	PJ (Kips)	NO OF STRANDS (BOTTOM)	NO OF STRANDS (TOP)
*A1	38'-5 3/4"	SII-48 (Mod)	879	14	6
*A2	41'-5 5/8"				
*A3	37'-5 1/4"				
B1, C1	38'-5 3/4"	SII-48 (Mod)	703	12	4
B2, C2	41'-5 5/8"	SII-48 (Mod)	616	10	4
B3, C3	37'-5 1/4"	SII-48 (Mod)	616	10	4
D1, E1, F1	38'-5 3/4"	SII-36 (Mod)	616	10	4
D2, E2, F2	41'-5 5/8"	SII-36 (Mod)	440	8	2
D3, E3, F3	37'-5 1/4"	SII-36 (Mod)	440	8	2
G1, G3	27'-1 1/2"	SII-36 (Mod)	352	6	2
H1, H3					
I1, I3					
G2, H2, I2	39'-11 3/4"	SII-36 (Mod)	440	8	2
*J1, J3	27'-1 1/2"	SII-48 (Mod)	352	6	2
*J2	39'-11 3/4"	SII-48 (Mod)	528	10	2

* UNITS A1, A2, A3 AND J1, J2, J3 ARE EXTERIOR UNITS SEE TYPICAL EXTERIOR UNIT SII-48 (MOD) FOR DETAILS

GENERAL NOTES:

- The Jacking Force (P) is the jacking force required at the point of control along the span. The jacking force does not include any fabrication specific losses
- The maximum tensile stress in the prestressing steel upon release shall not exceed 75% of the specified minimum ultimate tensile strength of the prestressing steel
- The maximum temporary tensile stress (jacking stress) in the prestressing steel shall not exceed 80% of the specified minimum ultimate tensile strength of the prestressing steel
- Keyways to be filled with grout
- Concrete Strength:
f'ci = 5 ksi at time of stressing
f'c = 6 ksi at 28 days
- Number of prestressing strands based on:
Strand Size = Ø 0.6"
Fpu = 270 ksi, low laxation strands
Strand Prestressing tensile stress = 202.50 ksi

DESIGN	BY HOMA IRANINEJADIAN	CHECKED SHARAREH BIKAEAE
DETAILS	BY ANTONETTE L. ONG	CHECKED SHARAREH BIKAEAE
QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

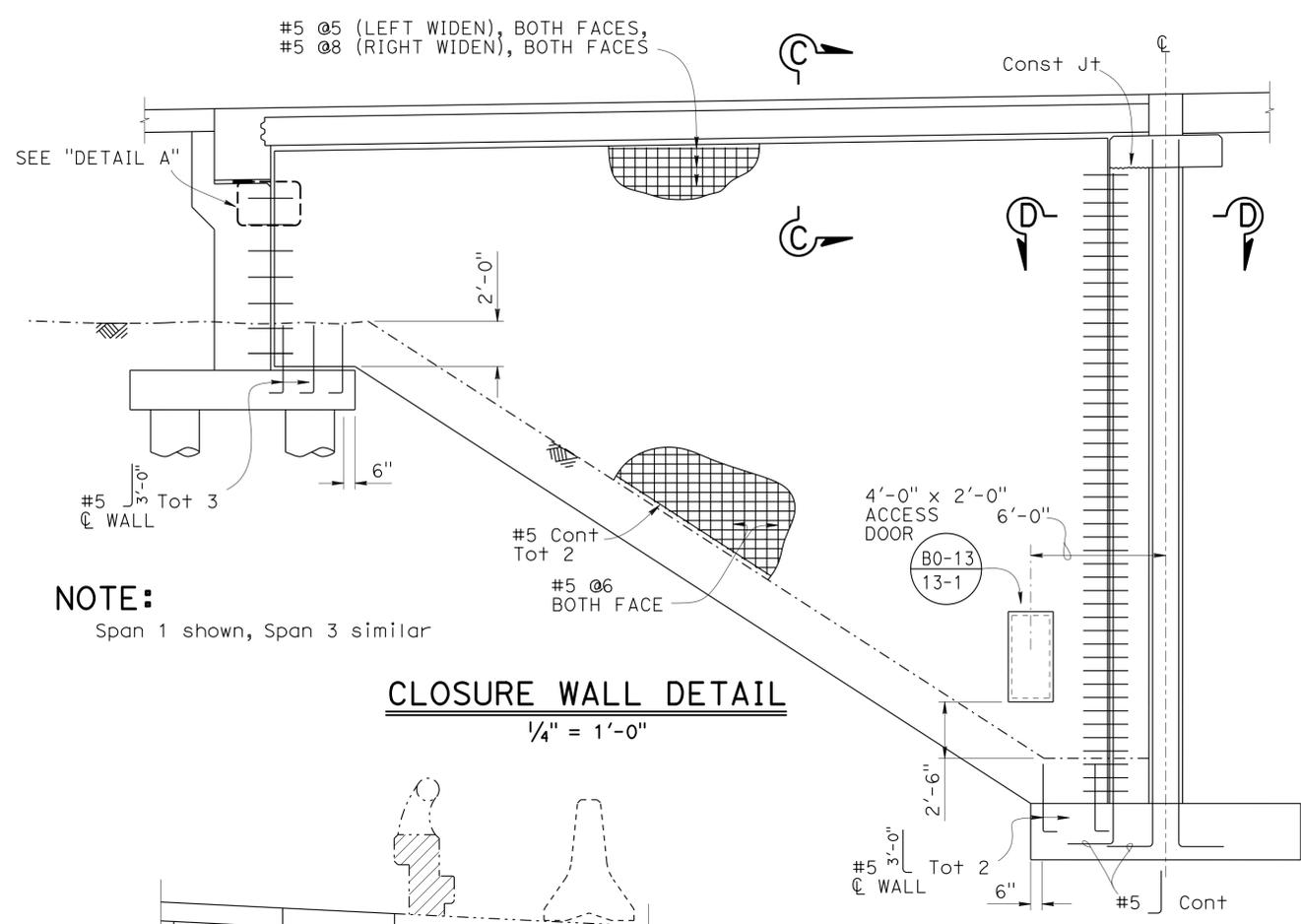
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO. 53-0870
POST MILE 40.46

**VIA VERDE UNDERCROSSING (WIDEN)
PRESTRESSED CONCRETE SLAB DETAILS**

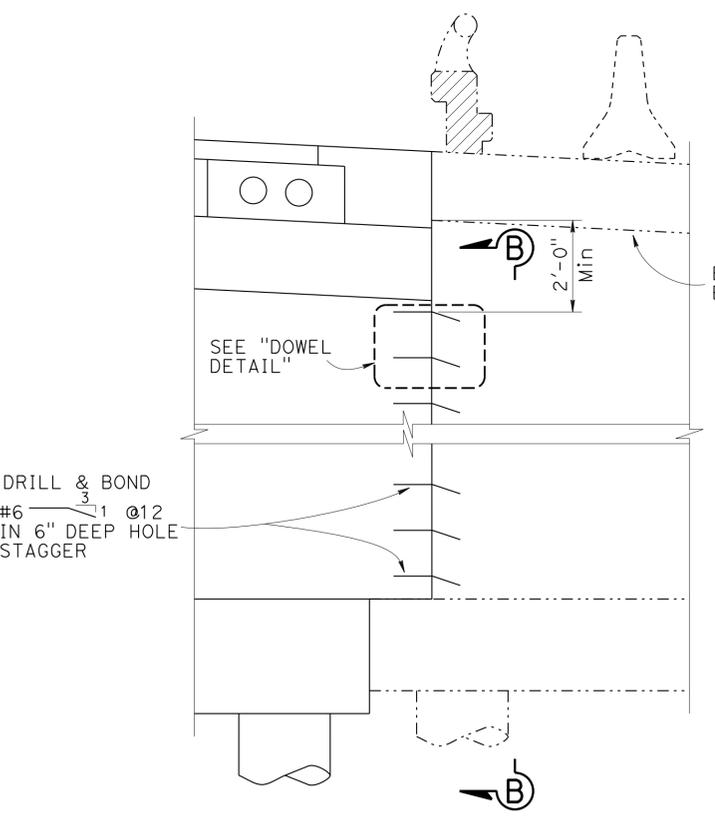
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1679	2313

Dawit Tadelle Eger 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
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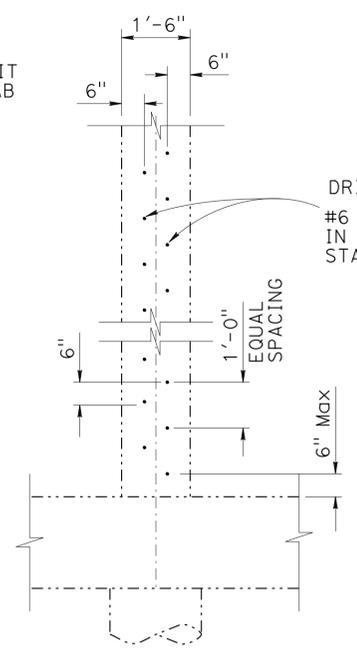
NOTE:
Span 1 shown, Span 3 similar

CLOSURE WALL DETAIL
1/4" = 1'-0"

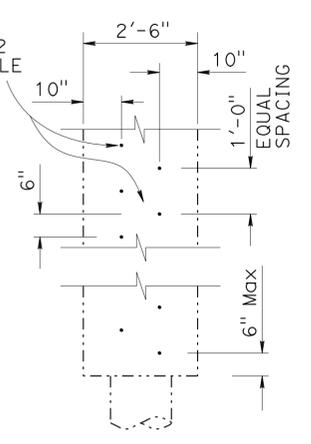


PIER WALL JOINT DETAIL
1/2" = 1'-0"

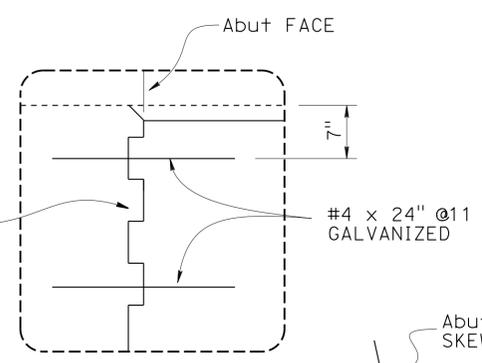
NOTE:
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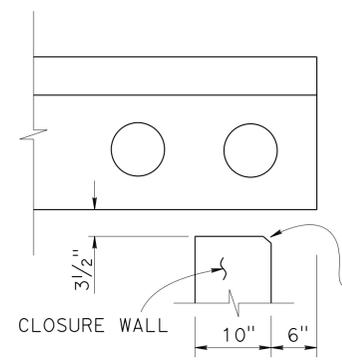
SECTION B-B
1/2" = 1'-0"



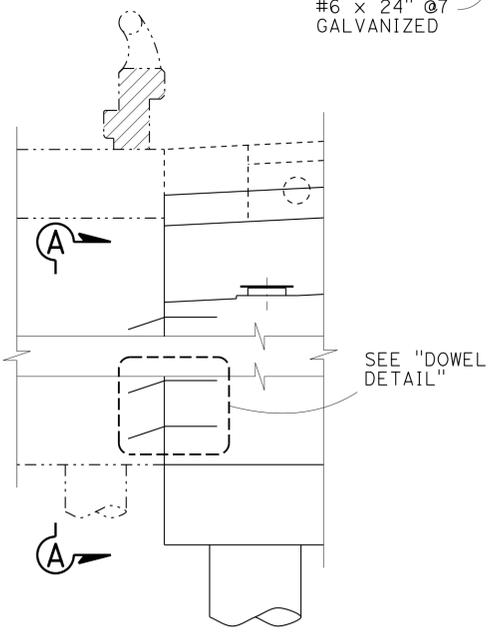
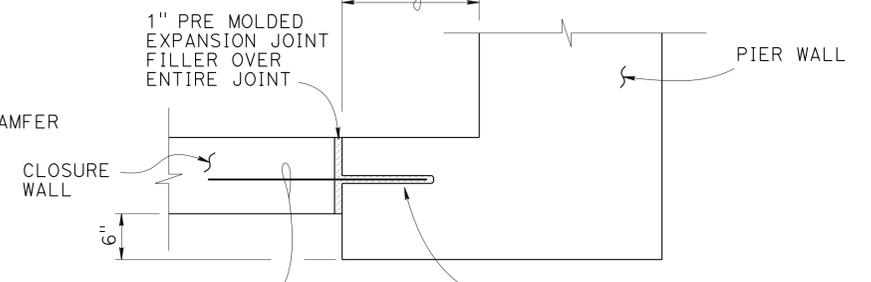
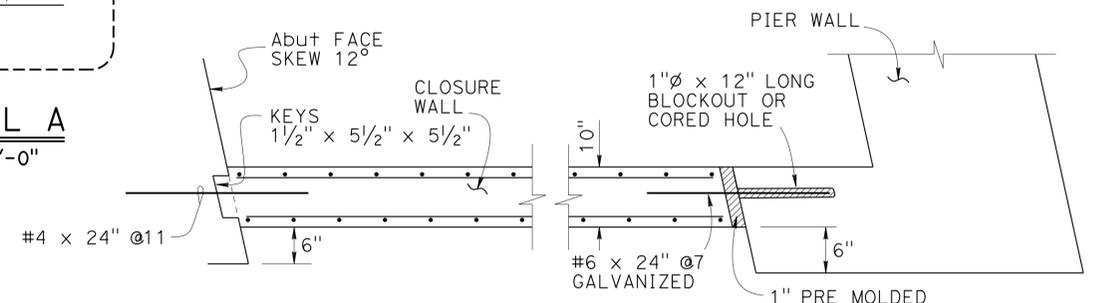
SECTION A-A
1/2" = 1'-0"



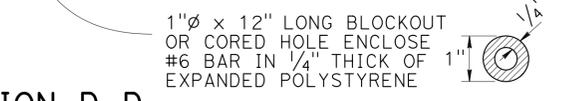
DETAIL A
1" = 1'-0"



SECTION C-C
1" = 1'



ABUTMENT JOINT DETAIL
1/2" = 1'-0"



LEGEND:

- Indicates New Construction
- - - - Indicates Existing Structure
- ▨ Bridge Removal (Portion)

DESIGN	BY HOMA IRANINEJADIAN	CHECKED SHARAREH BIKAAE
DETAILS	BY K. FARAHZADIYAZDI/A. ONG	CHECKED SHARAREH BIKAAE
QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20
 BRIDGE NO. 53-0870
 POST MILE 40.46

VIA VERDE UNDERCROSSING (WIDEN)
MISCELLANEOUS DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1680	2313

Dawit Tadelle Ezer 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
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TABLE 1: TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

DESIGN H	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
W	8'-3"	8'-6"	9'-0"	9'-6"	10'-0"	10'-9"	11'-3"	12'-0"	13'-3"	14'-3"	15'-9"	16'-9"	18'-0"	19'-9"
C	2'-9"	2'-9"	3'-0"	3'-3"	3'-4"	3'-6"	3'-9"	4'-0"	4'-3"	4'-9"	5'-3"	5'-6"	5'-9"	6'-7"
B	5'-6"	5'-9"	6'-0"	6'-3"	6'-8"	7'-3"	7'-6"	8'-0"	9'-0"	9'-6"	10'-6"	11'-3"	12'-3"	13'-2"
F PILE FOOTING	1'-6"	1'-6"	1'-6"	1'-6"	1'-9"	2'-0"	2'-0"	2'-6"	2'-9"	2'-9"	3'-0"	3'-3"	3'-9"	4'-0"
M	1'-3"	1'-6"	1'-6"	1'-9"	1'-10"	2'-0"	2'-3"	2'-6"	2'-9"	3'-3"	3'-9"	4'-0"	4'-3"	5'-1"
N	4'-0"	4'-3"	4'-6"	4'-9"	5'-2"	5'-9"	6'-0"	6'-6"	7'-6"	8'-0"	9'-0"	9'-9"	10'-9"	11'-8"
ROW 1 SPACING	12'-3"	10'-3"	8'-9"	5'-8 1/4"	6'-3"	5'-3"	4'-9"	4'-0"	3'-9"	3'-9"	4'-0"	3'-9"	3'-9"	3'-9"
ROW 2 SPACING	14'-0"	12'-9"	11'-6"	5'-8 1/4"	9'-3"	8'-3"	7'-9"	6'-6"	7'-6"	6'-0"	4'-0"	4'-0"	3'-9"	3'-9"
ROW 3 SPACING								6'-0"	5'-3"	5'-0"	4'-0"	6'-0"	4'-0"	
ROW 4 SPACING													3'-9"	3'-9"
STEM WITH HAUNCH, BATTER	0	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	5/8:12	3/4:12	7/8:12	1:12	1:12
STEM WITHOUT HAUNCH, BATTER	0	0	0	0	0	0	0	0	1/4:12	1/4:12	1/2:12	3/4:12	3/4:12	3/4:12
Ⓐ BARS						#7 @ 15	#7 @ 12	#7 @ 12	#8 @ 12	#6 @ 6	#6 @ 6	#6 @ 6	#8 @ 9	#9 @ 9
Ⓑ BARS	#8 @ 12	#7 @ 9	#7 @ 6	#7 @ 6	#7 @ 6	#9 @ 7.5	#9 @ 6	#10 @ 6	#10 @ 6	#8 @ 6	#8 @ 6	#8 @ 6	#10 @ 9	#11 @ 9
ha			5'-0"	6'-0"	7'-0"	7'-0"	6'-0"	7'-0"	7'-0"	7'-6"	8'-6"	9'-3"	15'-0"	11'-3"
hb						11'-0"	12'-0"	13'-3"	16'-0"	15'-6"	17'-6"	18'-9"	21'-0"	20'-9"
Ⓒ BARS	#6 @ 12	#6 @ 9	#6 @ 6	#6 @ 6	#6 @ 6	#8 @ 7.5	#8 @ 6	#9 @ 6	#9 @ 6	#10 @ 6	#10 @ 6	#11 @ 6	#10 @ 9	#10 @ 9
Ⓓ BARS	#5 @ 12	#5 @ 9	#5 @ 12	#5 @ 12	#5 @ 12	#6 @ 15	#5 @ 12	#5 @ 12	#6 @ 12	#6 @ 12	#6 @ 12	#7 @ 12	#6 @ 9	#9 @ 9
Ⓔ BARS	10-#7 @ 6	8-#7 @ 7	10-#6 @ 6	8-#6 @ 6	6-#6 @ 12	6-#5 @ 12	6-#5 @ 12	6-#5 @ 15	#5 @ 18	#5 @ 18	#5 @ 18	#5 @ 18	#5 @ 18	#5 @ 18
Ⓕ BARS	10-#8 @ 7	10-#8 @ 6	10-#7 @ 8	12-#6 @ 7	8-#7 @ 11	7-#6 @ 13	8-#6 @ 12	8-#5 @ 15	#5 @ 18	#5 @ 18	#5 @ 18	#5 @ 18	#5 @ 18	#5 @ 18

NOTE:
Total Ⓐ bars and Ⓑ bars shown are total number of top and bottom bars combined.

LEGEND:
⊘ : 2 bar bundle

DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications 4th edition with California Amendments

WS: 33 psf on Sound Wall and Barrier

LS: Varied surcharge on level ground surface

CT: 54 kip maximum traffic impact loading evenly distributed over 10 feet at top of the barrier and 1:1 distribution down and outward

EQE: Mononobe-Okabe Method
 $K_h = 0.3$
 $K_v = 0.0$

Soil: $\phi = 34^\circ$
 $\gamma = 120$ pcf

Reinforced Concrete: $f'_c = 3600$ psi
 $f_y = 60,000$ psi

Load Combinations and Limit States

Service I $Q = 1.00DC + 1.00EV + 1.00EH + 1.00LS + 0.30WS$

Service II $Q = 1.00DC + 1.00EV + 1.00EH + 1.00WS$

Strength I $Q = aDC + BEV + 1.50EH + 1.75LS$
 $Q = 1.25DC + 1.35EV + 0.90EH + 1.75LS$ (for piles at heel)

Strength III $Q = aDC + BEV + 1.50EH + 1.40WS$

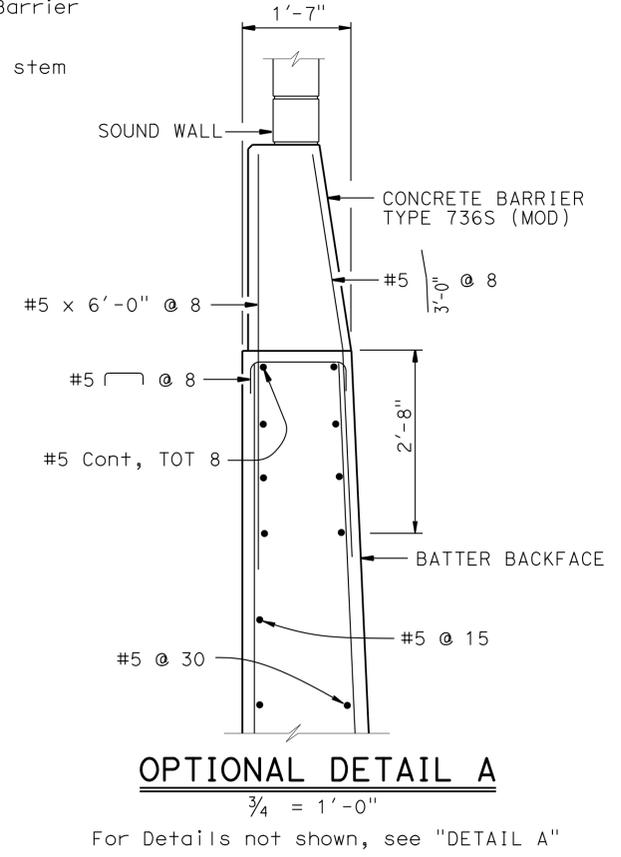
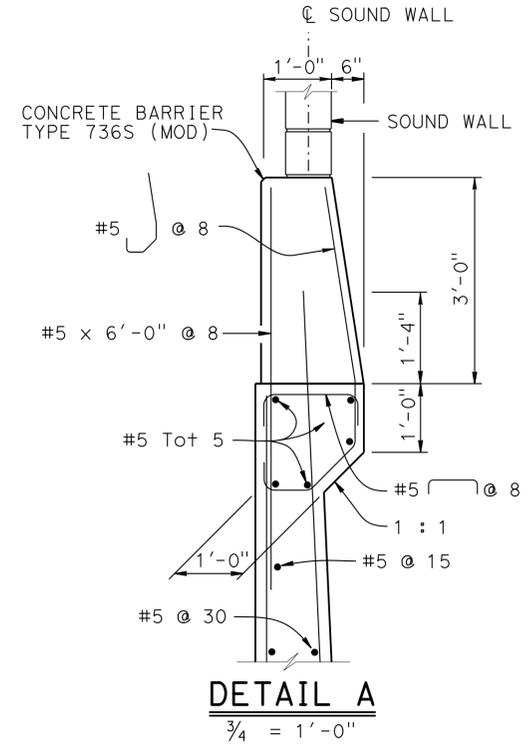
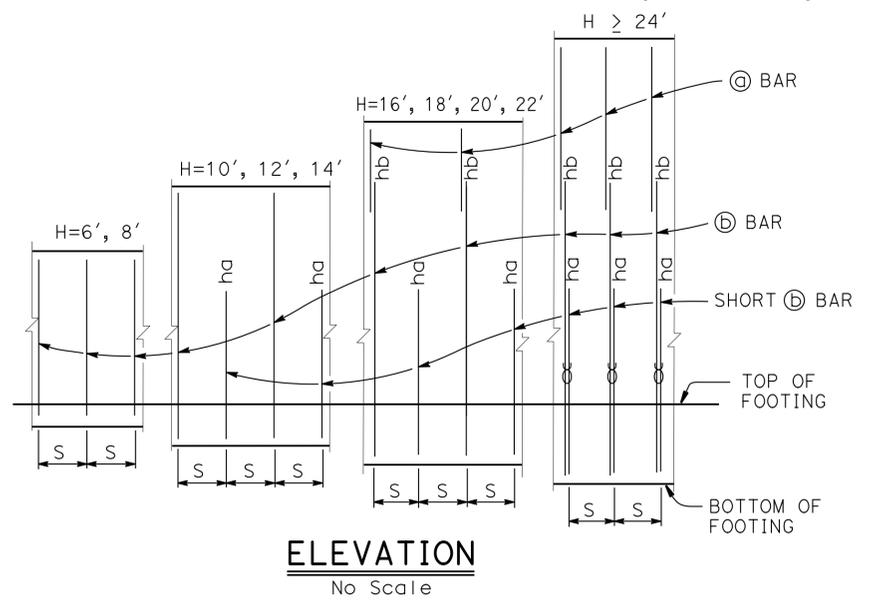
Strength V $Q = aDC + BEV + 1.50EH + 1.35LS + 0.40WS$

Extreme I $Q = 1.00DC + 1.00EV + 1.00EH + 1.00EQD + 1.00EQE$

Extreme II $Q = 1.00DC + 1.00EV + 1.00EH + 1.00CT$

NOTES:

- Class 90 concrete piles were used for design.
- Pile batter shown are 1:3.
- Minimum distance between center pile and edge of footing is 1'-6".
- Lateral resistance of each pile: 30 kip for strength limit states. 40 kip for extreme limit states.
- Maximum spacing between piles is shown in the table. Reduce to suit the length of footing.
- Minimum distance between any two piles is 3'-0". Reduce to suit the length of footing.
- For sound wall and retaining wall architectural finish or texture, see details elsewhere in Project Plans.
- For details not shown and drainage notes, see B3-5
- Footing cover, 1'-6" minimum.
- For sound wall and Barrier reinforcements see "SOUND WALL - MASONRY BLOCK WITH BARRIER ON RETAINING WALL" sheets.
- For H=6' through 14', extend Ⓑ bars into Barrier for stem with haunch.
- For H ≥ 16', extend Ⓐ bars into Barrier for stem with haunch.



NOTE:
"ha" and "hb" above Ⓐ bars indicate distance from top of footing to upper end of Ⓐ bars, see table.
"S" is Ⓐ bar spacing, see table.
⊘ : 2 bar bundle

STANDARD DRAWING	Modified detail	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 53-0870 POST MILE 40.46	VIA VERDE UNDERCROSSING (WIDEN) RETAINING WALL TYPE 1SWBP-DETAILS NO. 1
FILE NO. xs14-320-1	APPROVAL DATE July 2011	UNIT: 3622 PROJECT NUMBER & PHASE: 071300007-1		CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES
DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		REVISION DATES	SHEET 18 OF 35

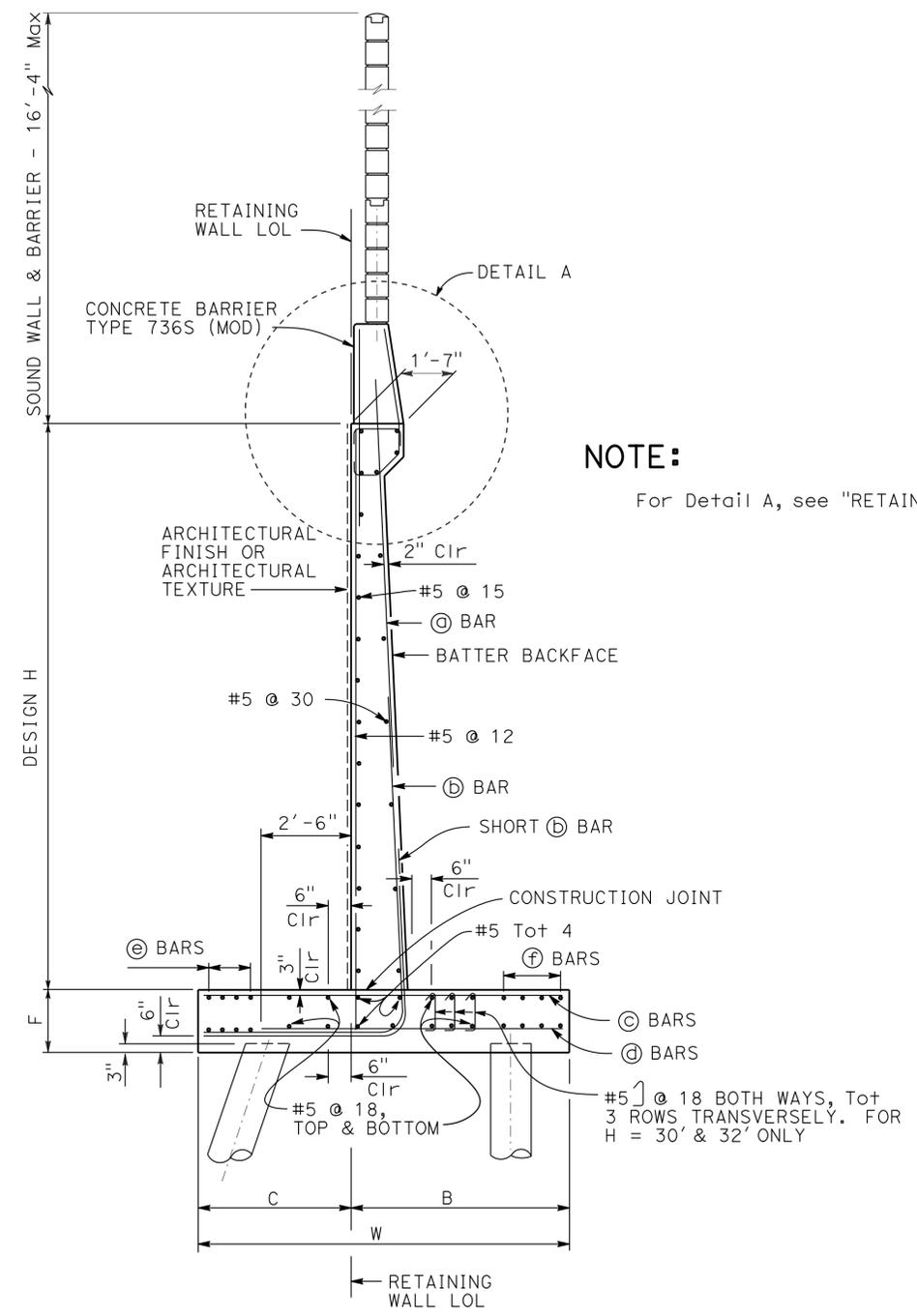
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1681	2313

Davit Tadelle Esq 10/01/14
 REGISTERED CIVIL ENGINEER DATE

6-1-15
 PLANS APPROVAL DATE

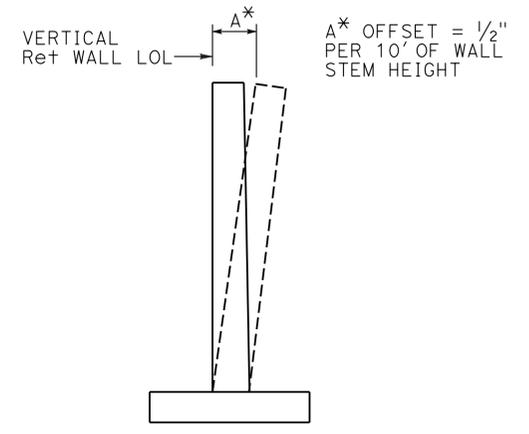
Dawit T Worku
 No. C60711
 Exp. 12-31-14
 CIVIL
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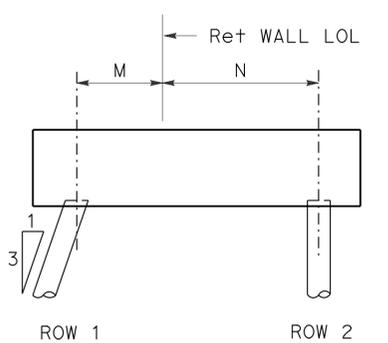


NOTE:
 For Detail A, see "RETAINING WALL 1SWBP-DETAILS NO. 1" sheet

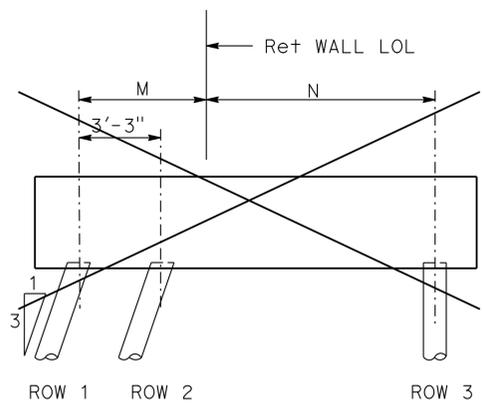
PILE FOOTING SECTION
 No scale
 All piles not shown



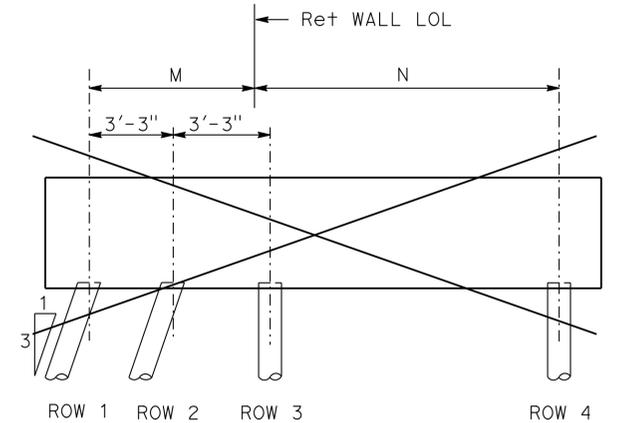
WALL OFFSET
 No scale
 Values for offsetting forms to be determined by the engineer



H = 6' THROUGH 20'



H = 22' THROUGH 28'



H = 30' AND 32'

PILE PATTERN
 No scale

STANDARD DRAWING	
FILE NO. xs14-320-2	APPROVAL DATE <u>July 2011</u>

Deleted Details

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES
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BRIDGE NO. 53-0870	VIA VERDE UNDERCROSSING (WIDEN)
POST MILE 40.46	
RETAINING WALL TYPE 1SWBP-DETAILS NO. 2	

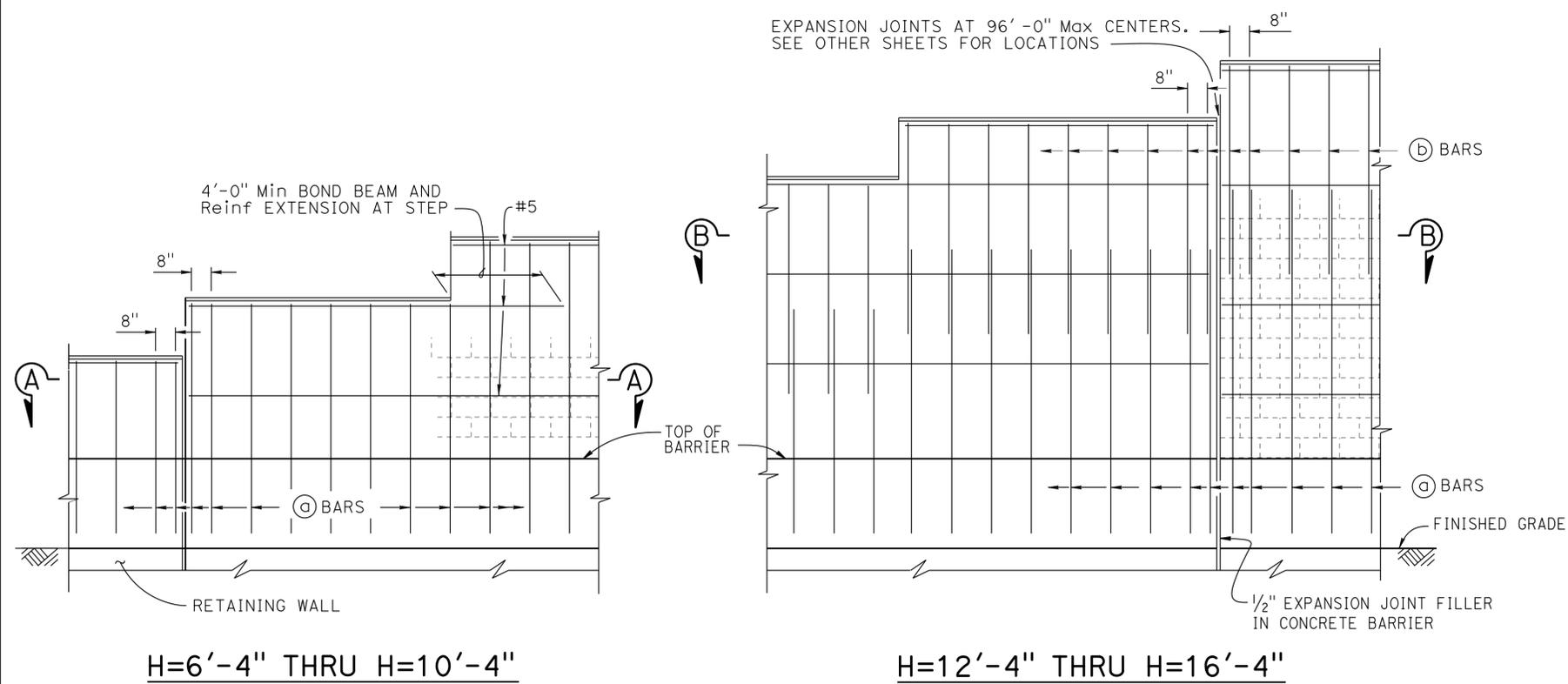
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07	LA	10	37.2/42.4	1682	2313

Dawit Tadelle Tessema 10/01/14
 REGISTERED CIVIL ENGINEER DATE

6-1-15
 PLANS APPROVAL DATE

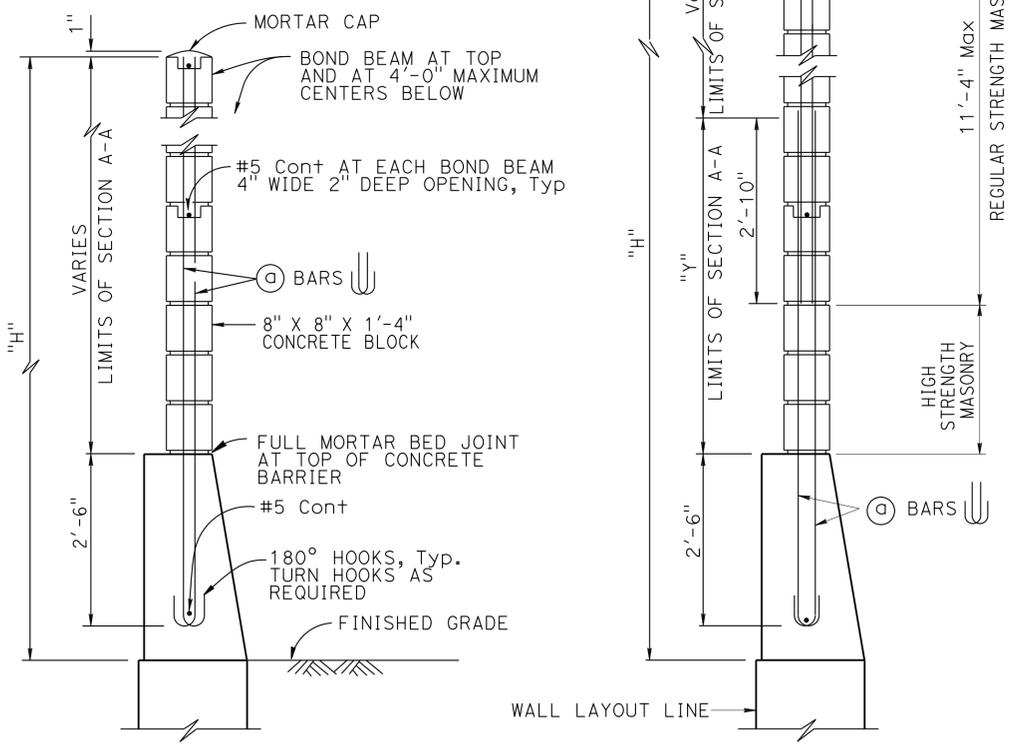
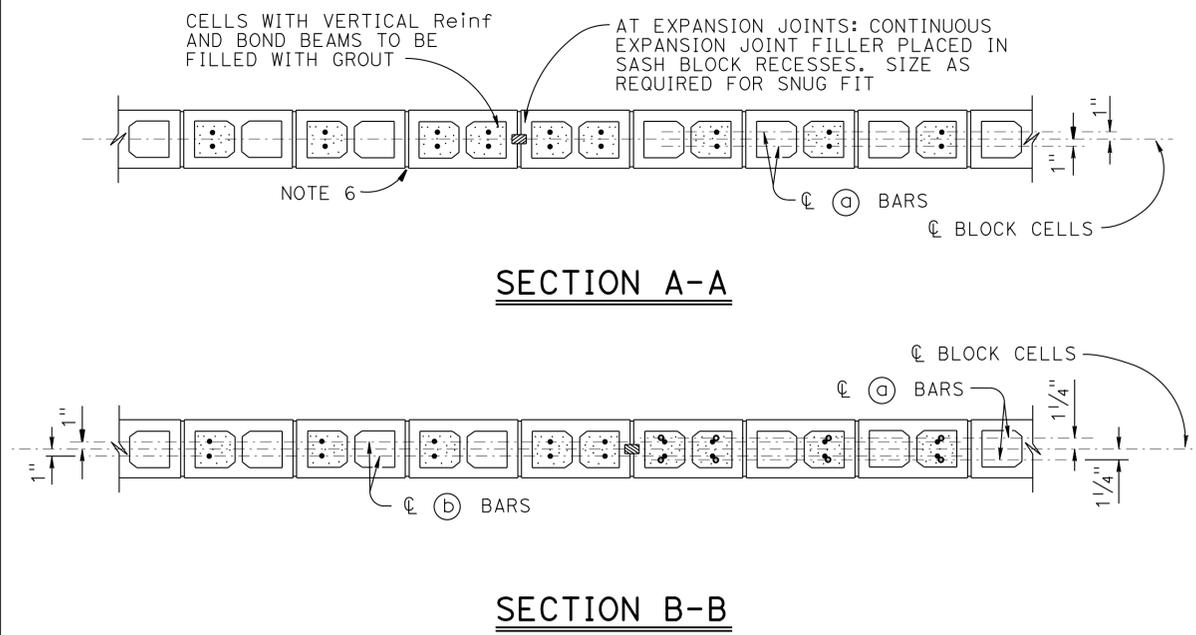
Dawit T Worku
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MAXIMUM "H"	(A) BARS @ 1'-4" Max	(B) BARS @ 1'-4" Max	"Y"	f'm (psi)	COMPRESSIVE STRENGTH OF CMU (psi)	MAXIMUM "H"
6'-4"	#4	---	---	1500	1900	6'-4"
8'-4"	#4	---	---	1500	1900	8'-4"
10'-4"	#4	---	---	1500	1900	10'-4"
12'-4"	#5	#4	5'-0"	1500	1900	12'-4"
14'-4"	#6	#4	7'-0"	1500	1900	14'-4"
16'-4"	#6	#4	9'-0"	2500	3700	16'-4"

PART ELEVATION



TYPICAL SECTION

- NOTES:
- For details not shown, see "MASONRY BLOCK SOUNDWALL WITH BARRIER ON RETAINING WALL - DETAILS NO. 2" sheet
 - Slope ground at traffic side of barrier to drain. Maximum slope ±10%
 - See STANDARD PLANS B15-9 for other details
 - For type of block and joint finish, see other sheets
 - When blocks are laid in stacked bond, ladder type, galvanized joint reinforcement shall be provided. A minimum of 2-9 gauge wire continuous at 4'-0" maximum to be used. Locate reinforcement in joints that are at the approximate midpoint between bond beams
 - Horizontal joints shall be tooled concave or may be weathered. Vertical joints shall be tooled concave or may be raked
 - For intermediate wall heights that are between the "H's" given, use the tabular information for the next higher "H"
 - Masonry strengths are listed in "SOUND WALL REINFORCEMENT TABLE"
 - Concrete to be used for the barrier shall contain not less than 590 pounds of cementitious material per cubic yard

NO SCALE

VIA VERDE UNDERCROSSING (WIDEN)

MASONRY BLOCK SOUND WALL WITH BARRIER ON RETAINING WALL

DETAILS NO. 1

STANDARD DRAWING

FILE NO. **xs15-130-1**

APPROVAL DATE July 2012

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53-0870

POST MILE 40.46

UNIT: 3622

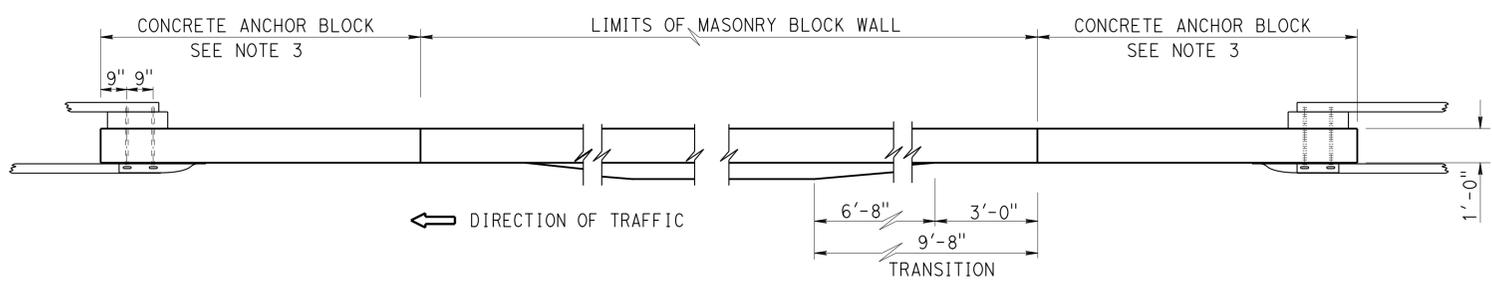
PROJECT NUMBER & PHASE: 0713000007-1

CONTRACT NO.: 07-1193U1

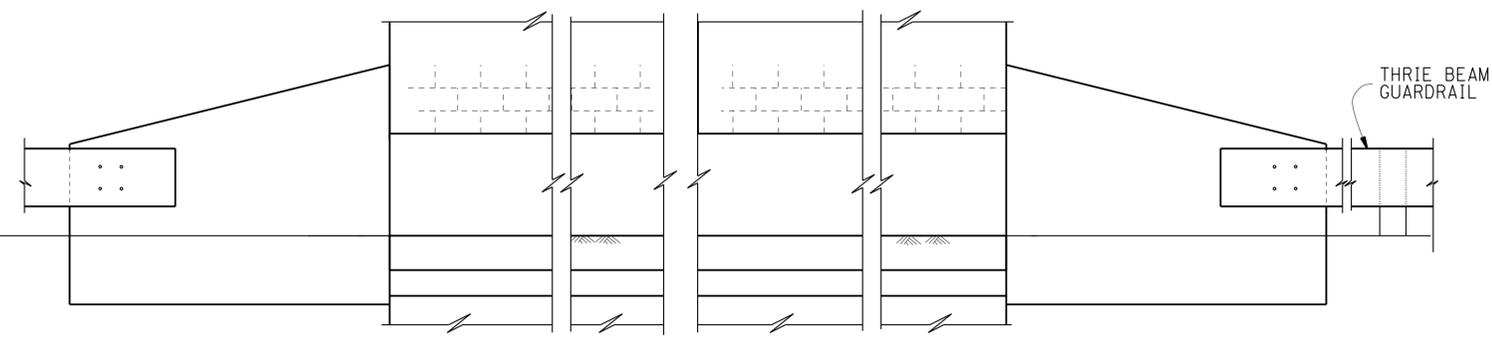
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
11/19/12 02/19/13 07/10/13	20	35

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1683	2313
<i>Davit T. Worku</i> REGISTERED CIVIL ENGINEER				DATE	
6-1-15 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 Davit T. Worku No. C60711 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA					



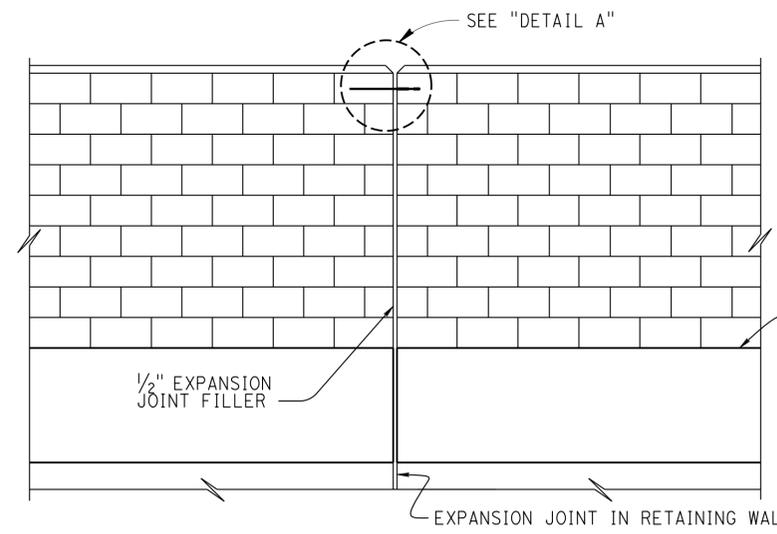
PLAN



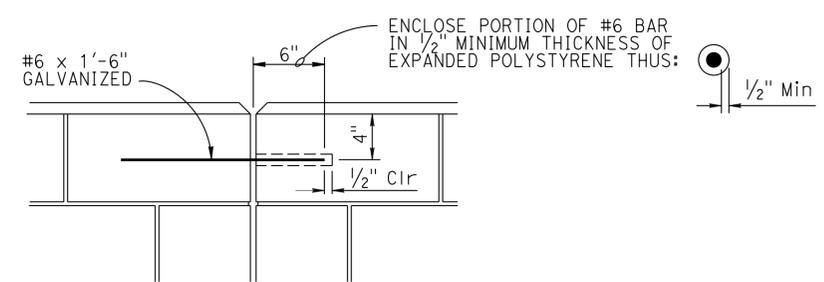
ELEVATION

METAL BEAM GUARDRAIL ANCHORAGE

For details not shown, see STANDARD PLAN B11-56



ALIGNMENT KEY DETAIL



DETAIL A

DESIGN NOTES

DESIGN
Uniform Building Code, 1997 Edition and the Bridge Design Specifications

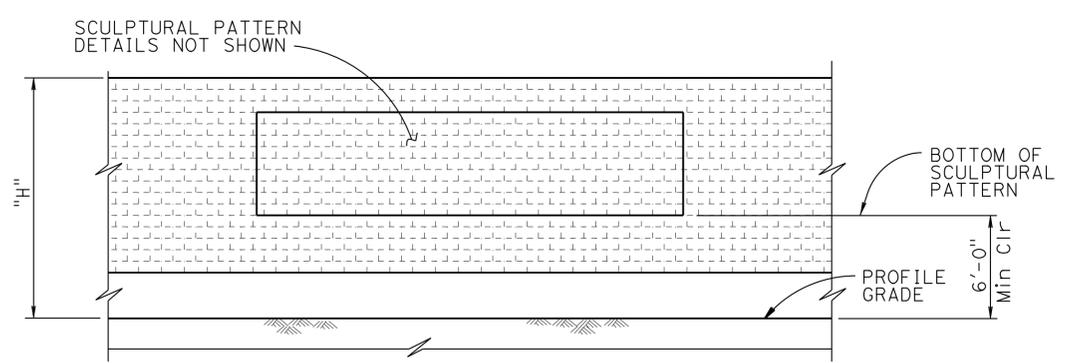
DESIGN WIND LOAD
33 psf

DESIGN SEISMIC LOAD
0.57 Dead load

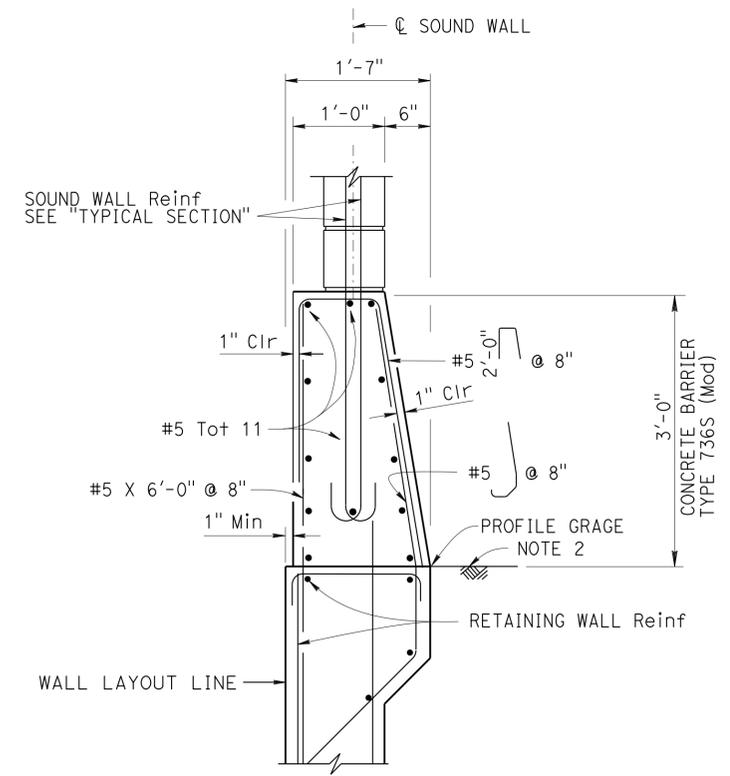
CONCRETE MASONRY

REINFORCED CONCRETE	REGULAR STRENGTH	HIGH STRENGTH	
f'c = 3600 psi	f'm = 1500 psi	f'm = 2000 psi	f'm = 2500 psi
fy = 60 ksi	fb = 495 psi	fb = 660 psi	fb = 830 psi
	fs = 24,000 psi	fs = 24,000 psi	fs = 24,000 psi
	n = 25.8	n = 19.3	n = 15.5

- NOTES:
- For details not shown, see STANDARD PLAN B15-6
 - Slope ground at traffic side of barrier to drain. Maximum slope ±10%. See STANDARD PLAN B11-56, Note D
 - For Concrete Anchor Block and connection details, see "CONNECTION DETAIL DD" on STANDARD PLAN A77J3



CLEARANCE DETAIL



BARRIER SECTION

NO SCALE

VIA VERDE UNDERCROSSING (WIDEN)

MASONRY BLOCK SOUNDWALL W/BARRIER ON RETAINING WALL

DETAILS NO. 2

STANDARD DRAWING

FILE NO. **xs15-130-2**

APPROVAL DATE July 2011

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53-0870
POST MILE 40.46

UNIT: 3622
PROJECT NUMBER & PHASE: 071300007-1
CONTRACT NO.: 07-1193U1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
02/14/13 07/08/13 10/24/13	21	35

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1684	2313

Dawit Tadelle Esq. 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA
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GENERAL NOTES

- Note A: For type of block and joint finish, See other sheets.
- Note B: When blocks are laid in stacked bond, ladder type, galvanized joint reinforcement shall be provided. A minimum of 2 - 9 gauge wires continuous at 4'-0" maximum to be used. Locate reinforcement in joints that are at the approximate midpoint between bond beams.
- Note C: Horizontal joints shall be tooled concave or may be weathered. Vertical joints shall be tooled concave or may be raked.
- Note D: All masonry to be high strength unless otherwise noted.
- Note E: Concrete to be used for the barrier must contain not less than 590 pounds of cementitious material per cubic yard.
- Note F: Expansion joints in concrete barrier and masonry block to match deck joints and at ends of wing walls.
- Note G: Expansion joints in Soundwall (Masonry Block) shall be at each support, center of span, and at ends of wingwalls.
- Note H: For dimensions and reinforcement not shown see "Typical Section" sheet.

DESIGN NOTES

DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments and Uniform Building Code 1997
 CT = 54 kip maximum traffic impact loading evenly distributed over 10 feet at tip of the barrier and 1:1 distributed down and outward

DESIGN WIND LOAD

37 psf

DESIGN SEISMIC LOAD

2.0 Dead load

REINFORCED CONCRETE

f'c = 3.6 ksi
 fy = 60 ksi

CONCRETE MASONRY

HIGH STRENGTH
 f'm = 2500 psi
 fy = 60 kpsi

LOAD COMBINATION AND LIMIT STATES

SERVICE STRENGTH I	Q = 1.0 Dc + 1.0 Dw + 0.3 Ws
STRENGTH III	Q = a Dc + 1.5 Dw + 1.75 U
STRENGTH V	Q = a Dc + a Dw + 1.4 Ws
EXTREME EVENT I	Q = a Dc + a Dw + 0.3 Dw
EXTREME EVENT II	Q = 1.0 Dc + 1.0 Dw + 1.0 EQD
	Q = 1.0 Dc + 1.0 Dw + 0.5 LL + 1.0 CT

WHERE:

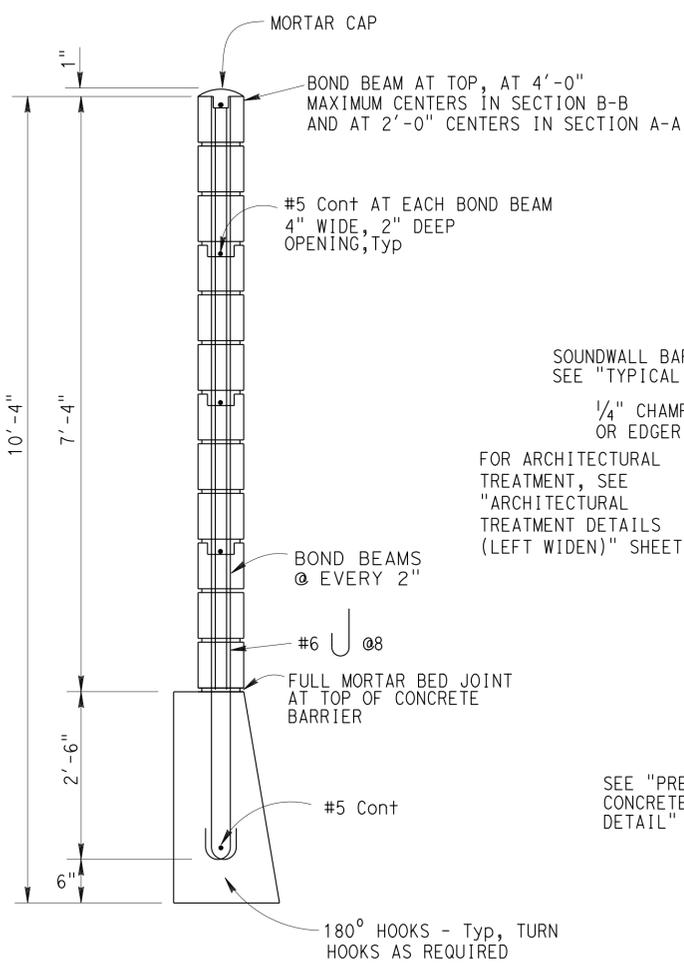
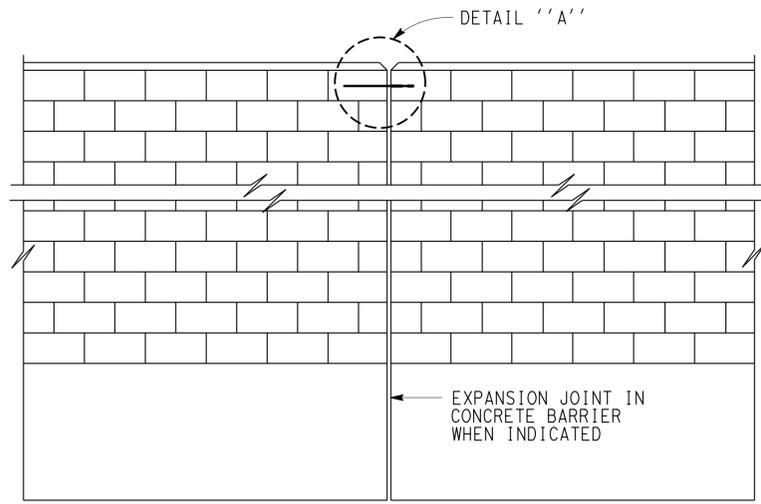
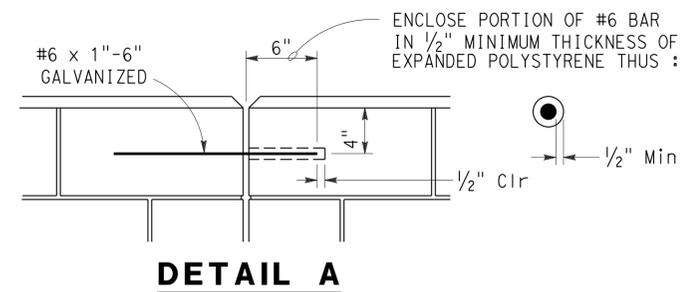
Q = FORCE EFFECT
 a = 1.25 OR 0.9, WHICHEVER CONTROL DESIGN
 Ws = WIND ON STRUCTURE
 Dc = DEAD LOAD STRUCTURE COMPONENT
 Dw = ADDED DEAD LOAD
 LL = LIVE LOAD
 EQD = SEISMIC DEAD LOAD
 CT = VEHICULAR COLLISION FORCE

STRENGTH REDUCTION FACTORS, φ

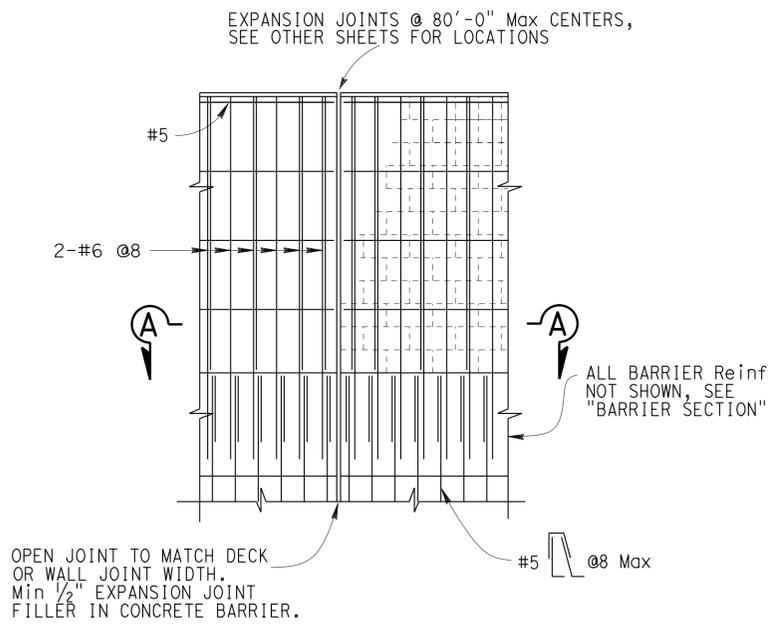
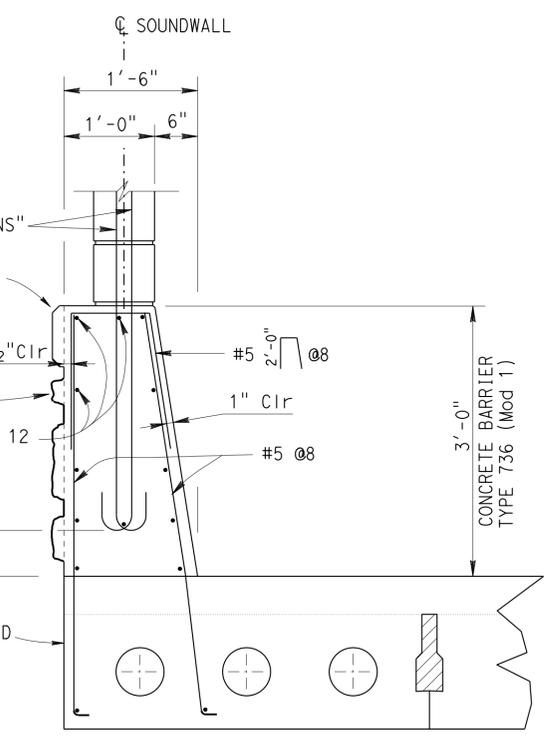
Reinforced concrete:
 For flexure φ=0.90
 For shear φ=0.85

Concrete masonry:
 For flexure φ=0.80
 For shear φ=0.60

Note 1:
 Barrier, Deck and Concrete Masonry are designed by the Strength Design Method.

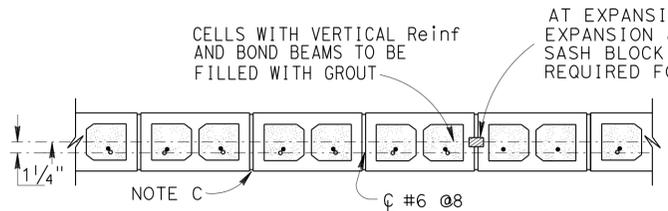


ALIGNMENT KEY DETAIL



BARRIER SECTION

DECK AND WALL JOINT ELEVATION



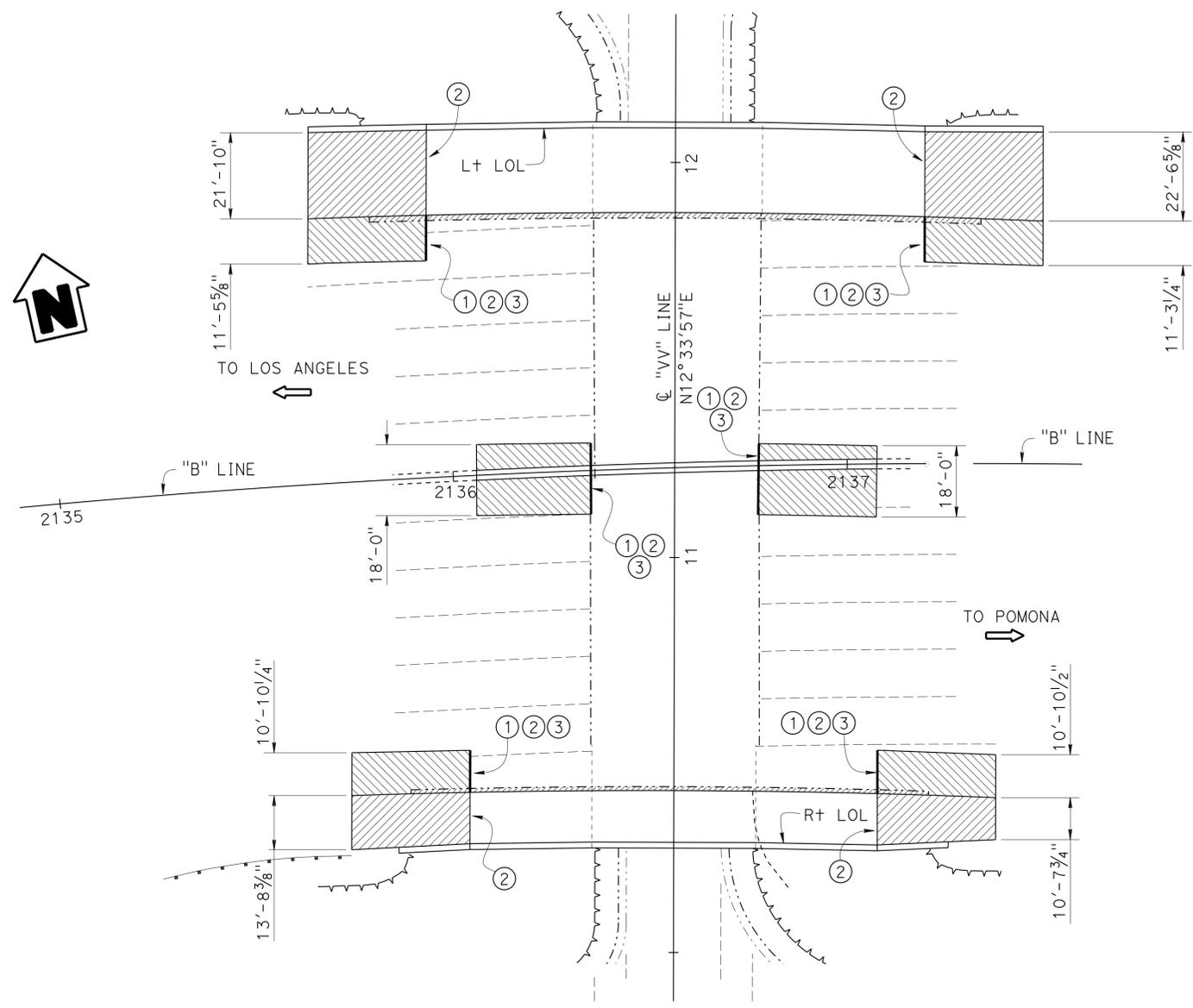
SECTION A A

SOUND WALL SECTION

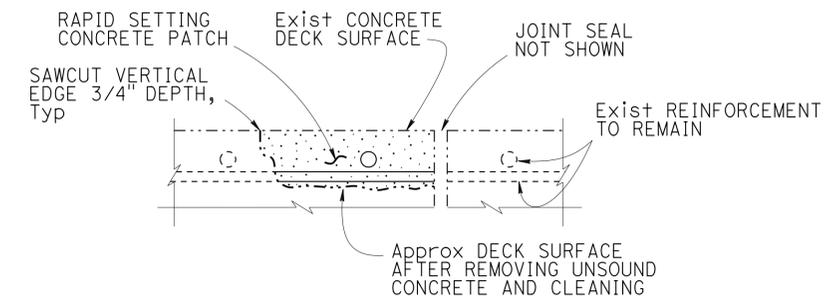
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTE:
 For dimensions and reinforcement not shown, see RSP b11-56

DESIGN BY HOMA IRANINEJADIAN CHECKED SHARAREH BIKAAE DETAILS BY ANTONETTE L. ONG CHECKED SHARAREH BIKAAE QUANTITIES BY HOMA IRANINEJADIAN CHECKED BRIJESH PATEL	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-0870	VIA VERDE UNDERCROSSING (WIDEN) MASONRY BLOCK SOUNDWALL ON BRIDGE
			POST MILE 40.46	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-1 CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			REVISION DATES 12/16/14 01/24/14 06/11/14	SHEET 22 OF 35



PLAN
1" = 20'



JOINT SPALL REPAIR DETAIL
NO SCALE

NOTE: REINFORCEMENT MAY BE ENCOUNTERED DURING DECK CONCRETE REMOVAL AND IS TO REMAIN UNDAMAGED. LOCATIONS TO BE DETERMINED BY THE ENGINEER.

JOINT SPALL REPAIR TABLE

LOCATION	APPROX DEPTH OF JOINT SPALLS (Inch)	APPROX WIDTH OF JOINT SPALLS (Inch)	APPROX LENGTH OF JOINT SPALLS (Feet)
Abut 1, 2 (EXISTING MEDIAN)	3	6	4
Abut 1, 4 (EXISTING OUTSIDE SHOULDER)	3	6	4

NOTES:

- ① Paving Notch extension
- ② Joint seal MR = 1"
- ③ Prior to placement of new joint seal, remove unsound concrete and patch with rapid setting concrete

LEGEND:

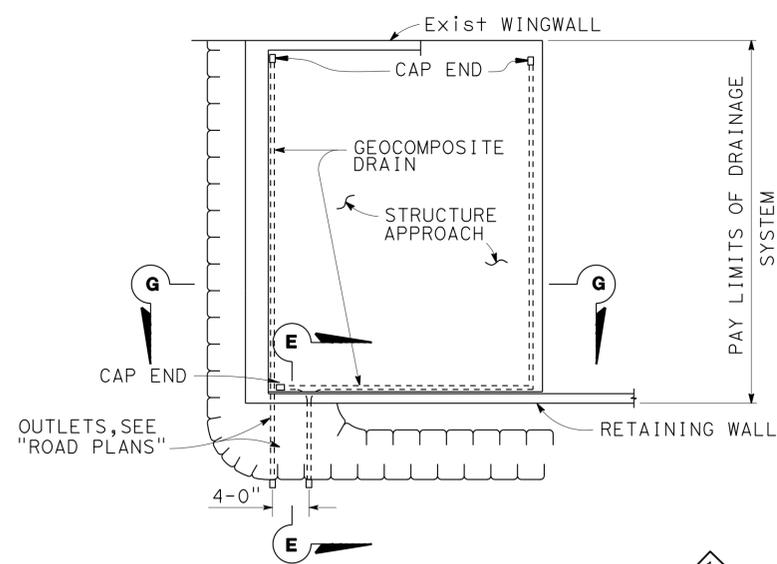
- Indicates New Construction
- - - - - Indicates Existing Structure
- Indicates Joint Seal
- ▨ Indicates Structure Approach Type N(30S)
- ▨ Indicates Structure Approach Type R(30D)

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1686	2313

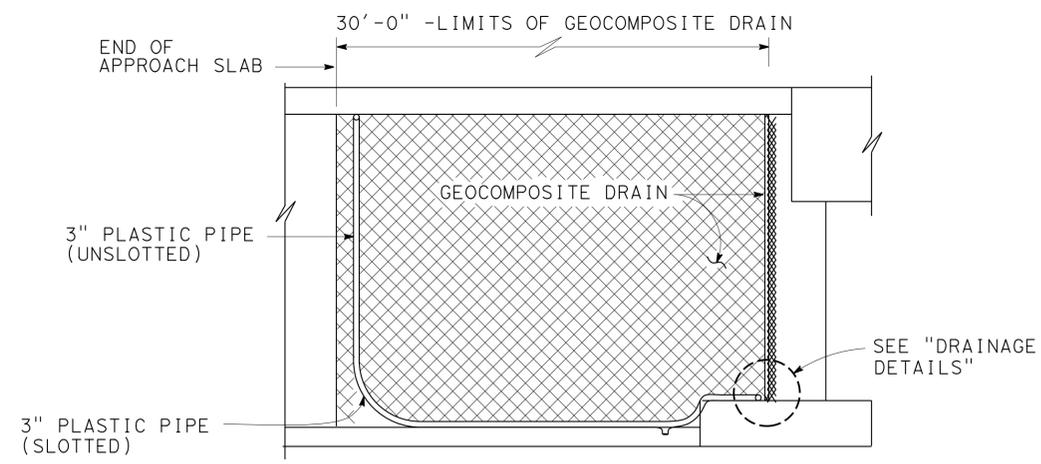
Dawit Tadelle Esq. 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Dawit T Worku
 No. C60711
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA



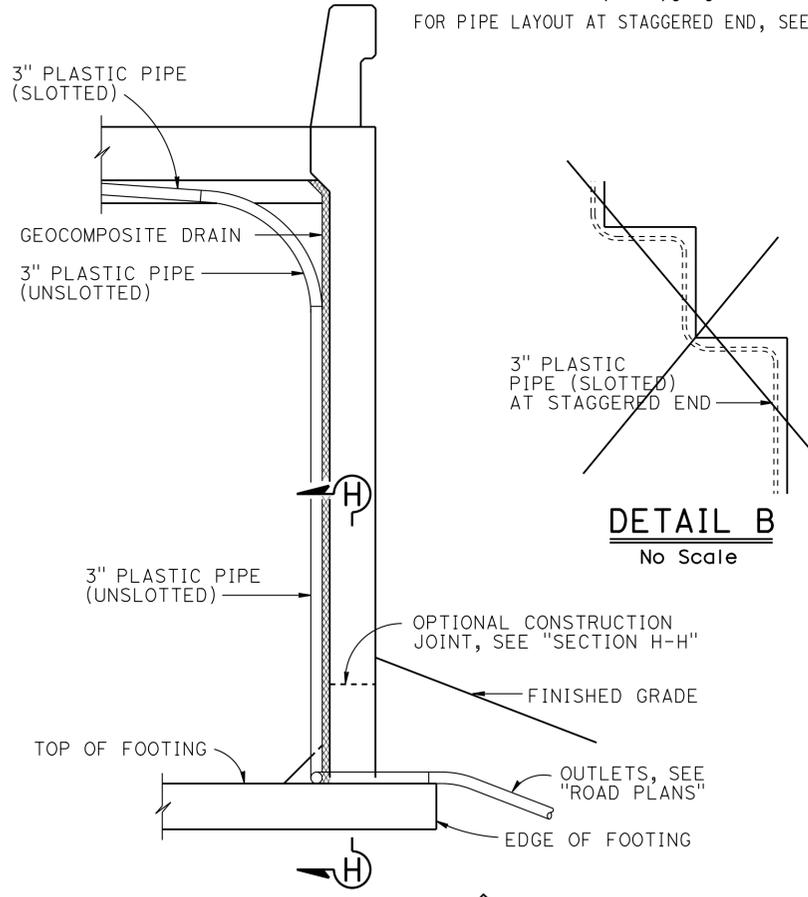
TYPICAL PLAN (LEFT WIDEN)

1" = 10'-0"
 FOR PIPE LAYOUT AT STAGGERED END, SEE "DETAIL B"



RETAINING WALL WINGWALL (LEFT WIDEN) SECTION G-G

1/4" = 1'-0"

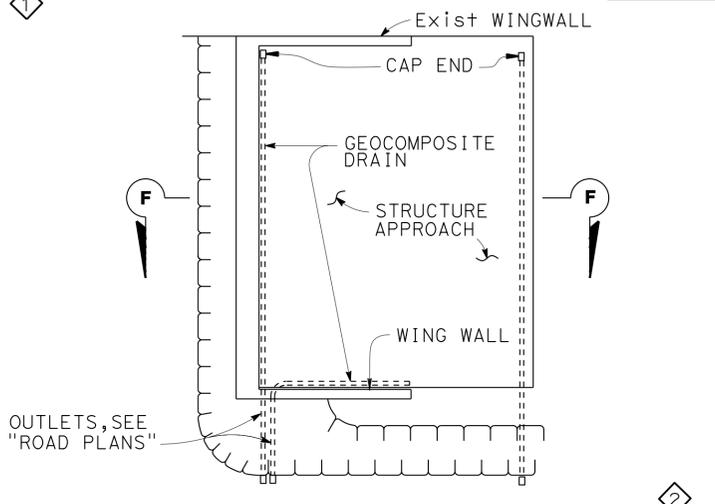


SECTION E-E

1/2" = 1'-0"

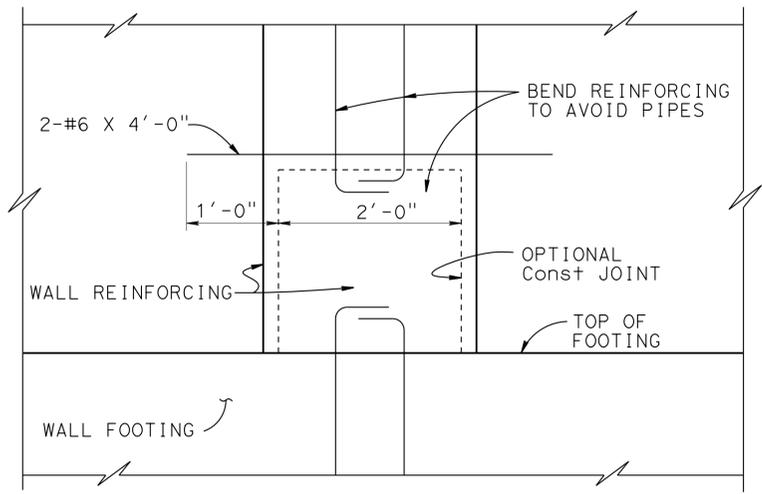
NOTE: Bends and junctions in 3" plastic pipe are 30" radius Min

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



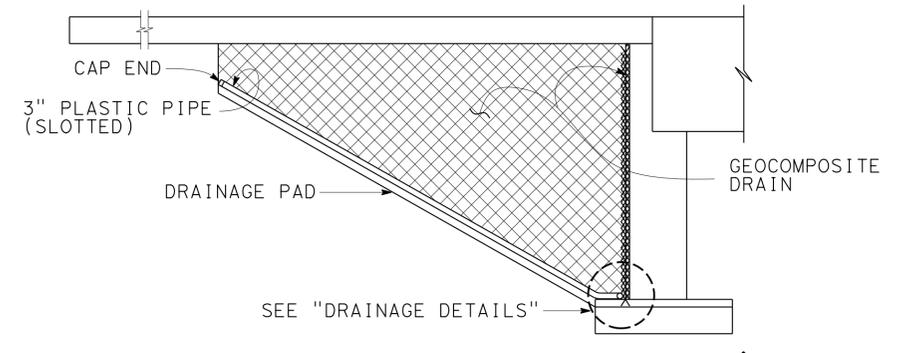
TYPICAL PLAN (RIGHT WIDEN)

1" = 10'-0"



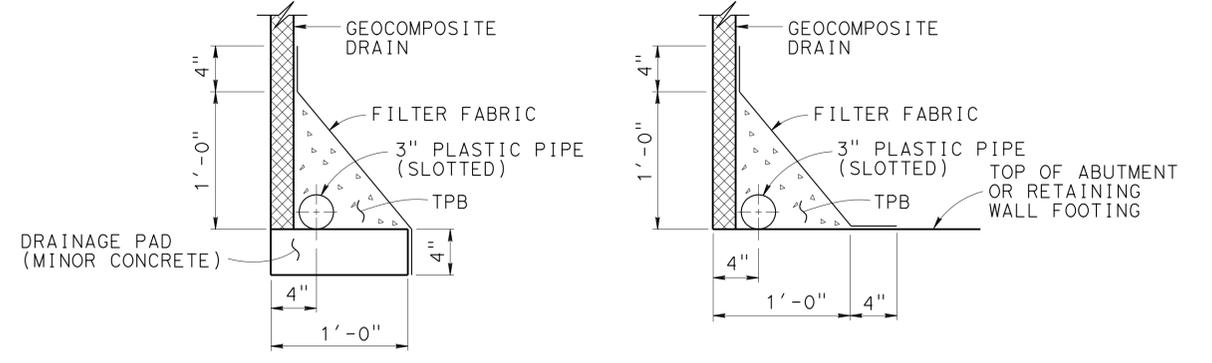
SECTION H-H

NO SCALE



CANTILEVER WINGWALL (RIGHT WIDEN) SECTION F-F

1/4" = 1'-0"



DRAINAGE DETAILS

1/2" = 1'-0"

NOTE: See weep hole and geocomposite drain at "ABUTMENT DETAILS NO. 2" sheet

STANDARD DRAWING	
FILE NO. xs3-110	APPROVAL DATE July 2011

- 1 Modified detail
- 2 Added detail
- 3 Added note

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

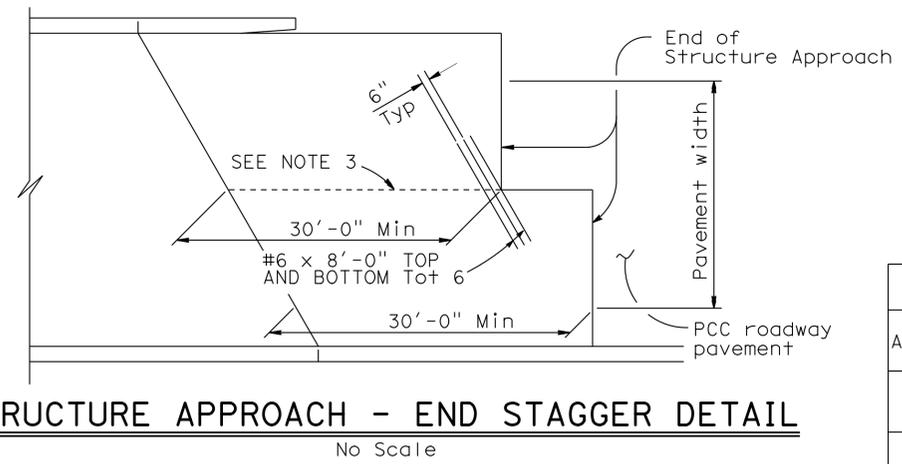
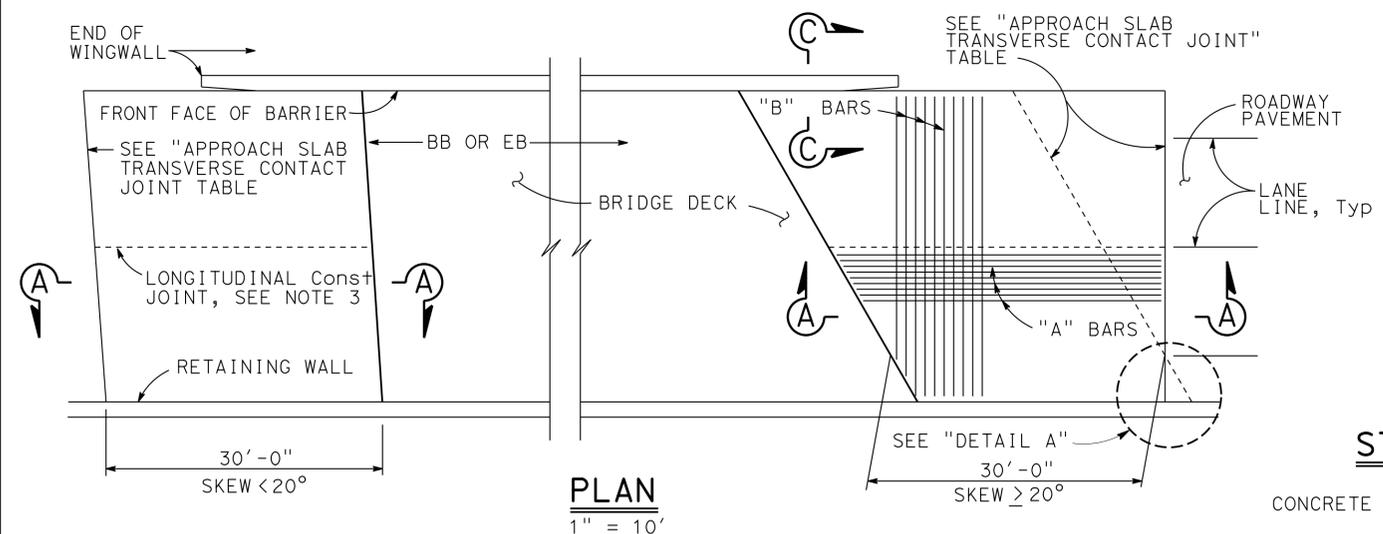
DIVISION OF ENGINEERING SERVICES

BRIDGE NO.	53-0870
POST MILE	40.46

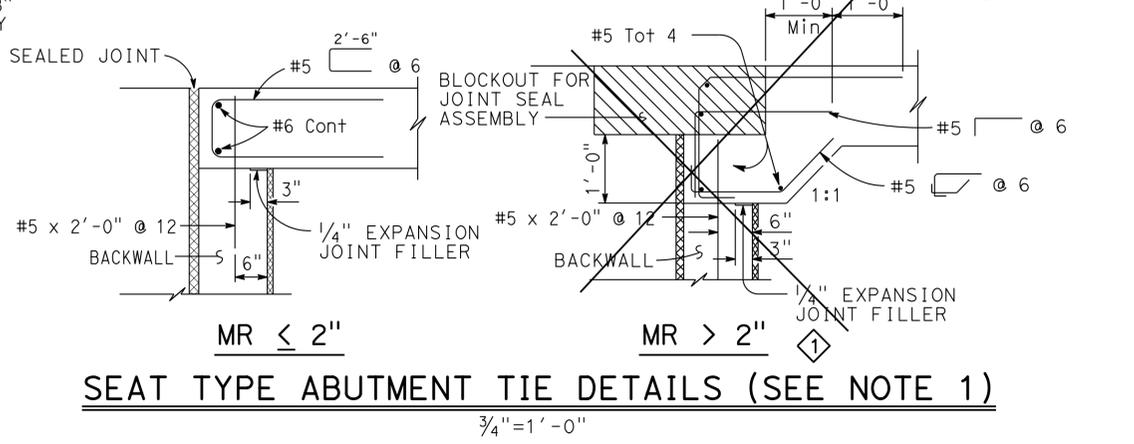
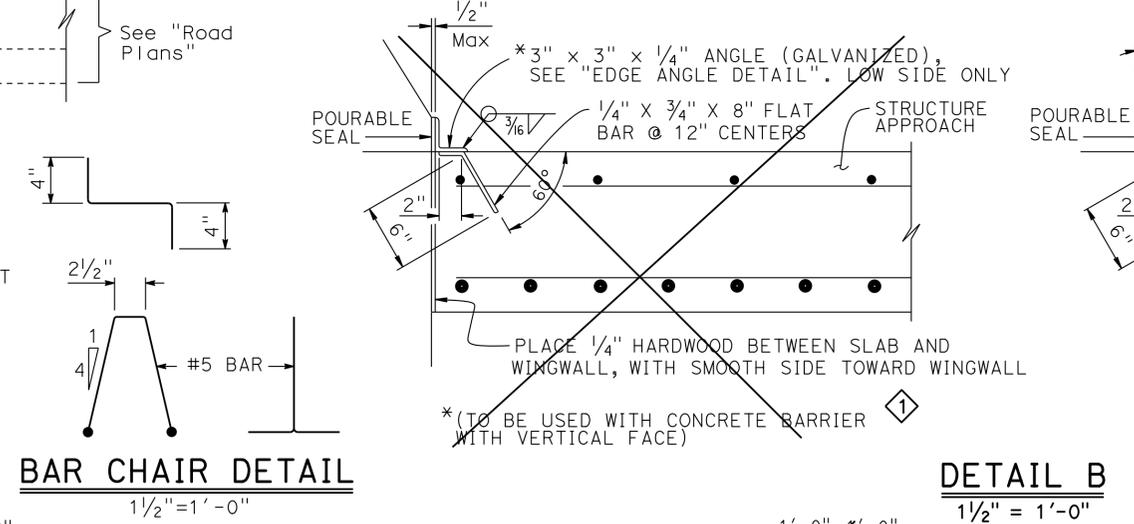
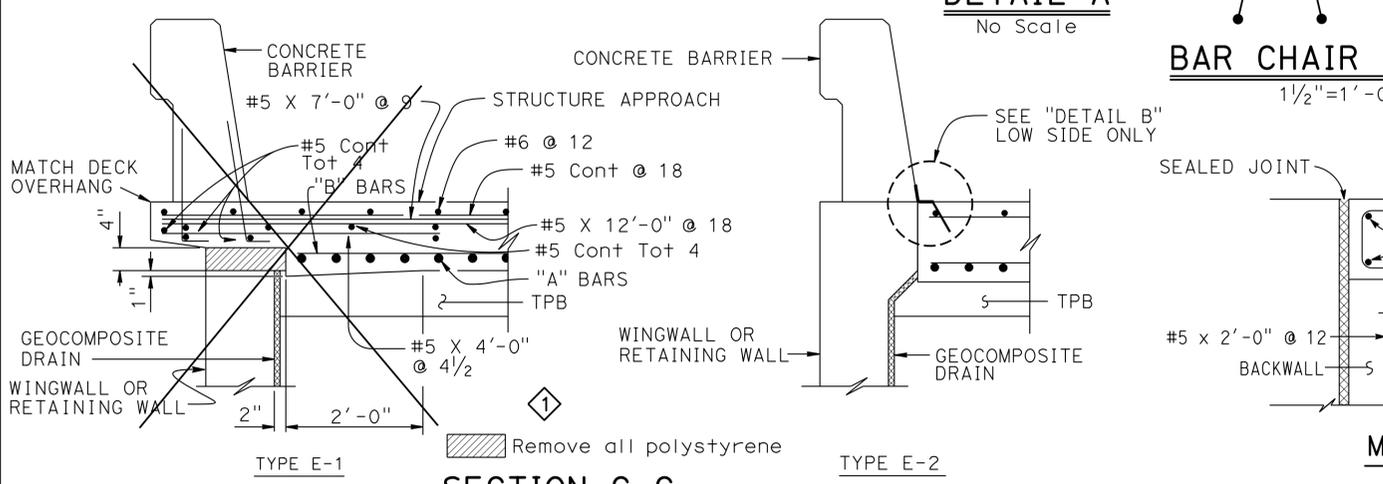
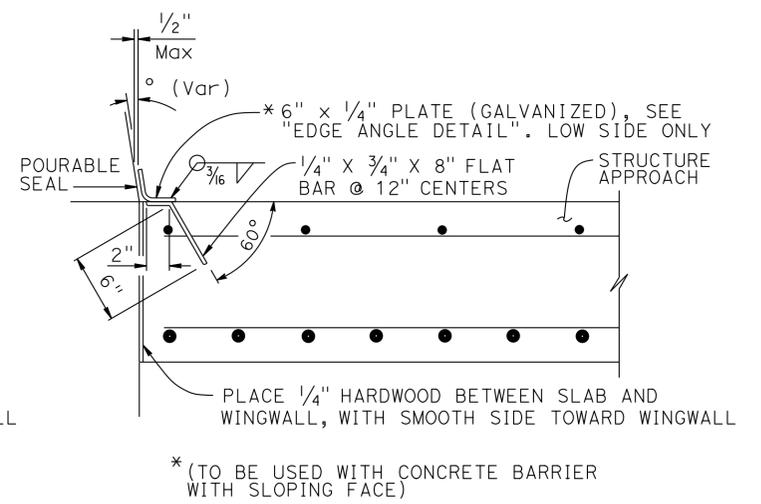
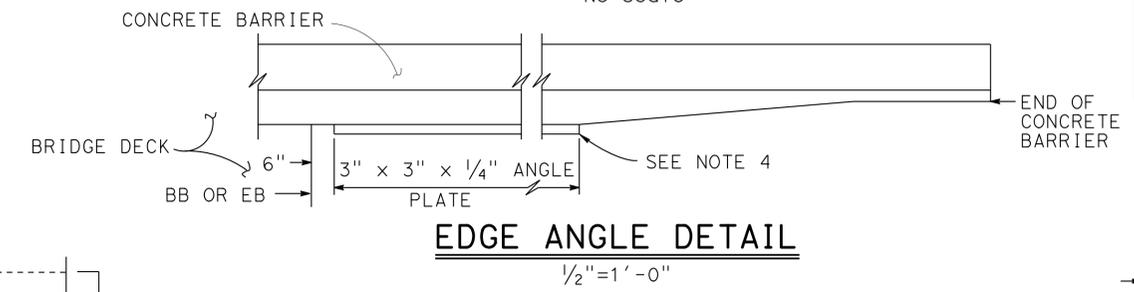
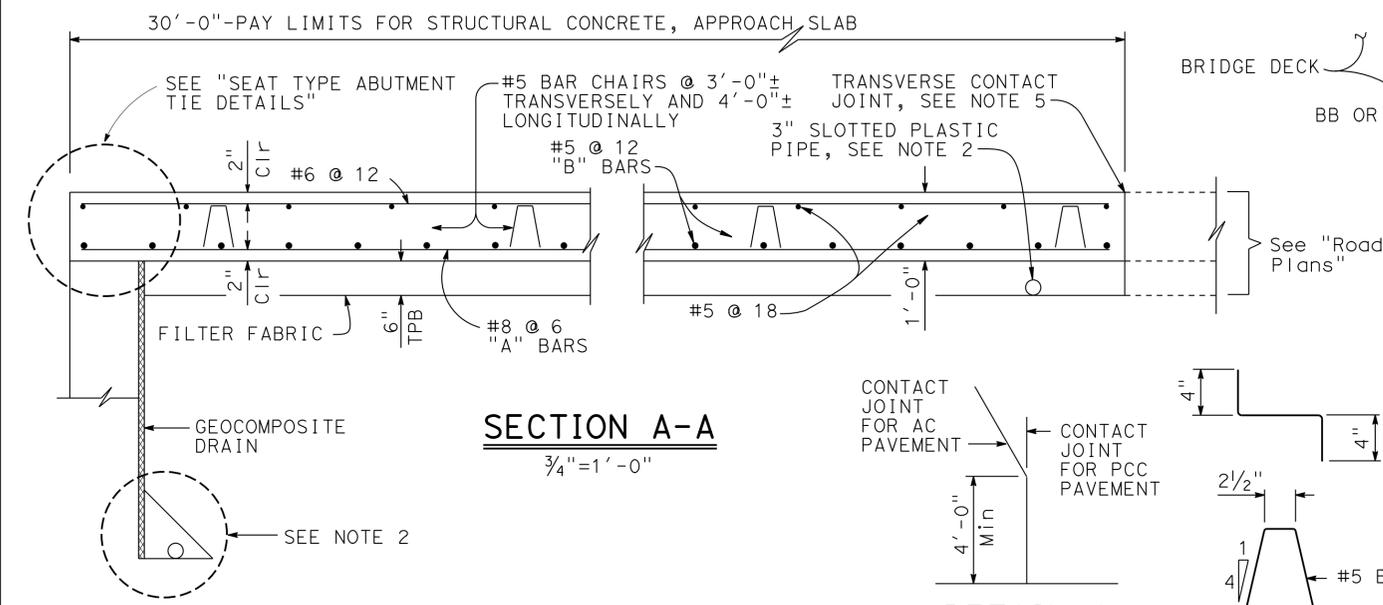
VIA VERDE UNDERCROSSING (WIDEN) STRUCTURE APPROACH DRAINAGE DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1687	2313

Dawit Tadelle Eger 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
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APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PN
20° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE



- NOTES:**
- For details not shown, see Structure Plans. For MR < 2, adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - For drainage details, see "STRUCTURE APPROACH DRAINAGE DETAILS" sheet.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable.
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10.
 - At the Contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along CL roadway.

STANDARD DRAWING

FILE NO. **xs3-120**

APPROVAL DATE July 2011

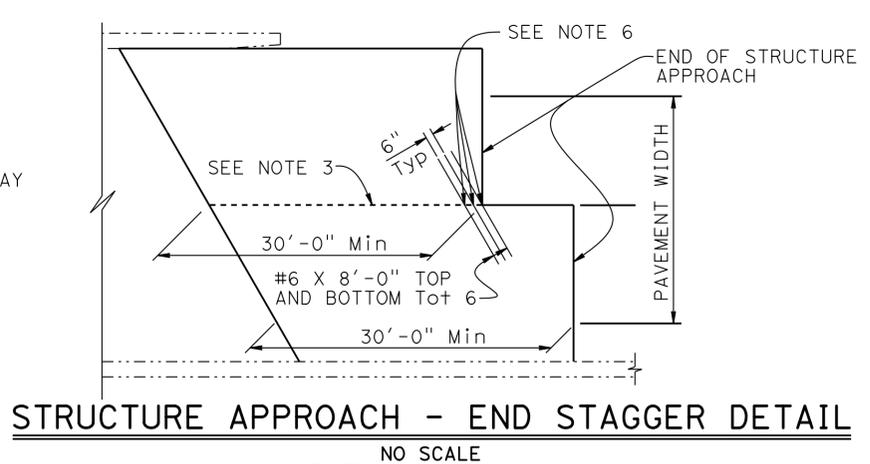
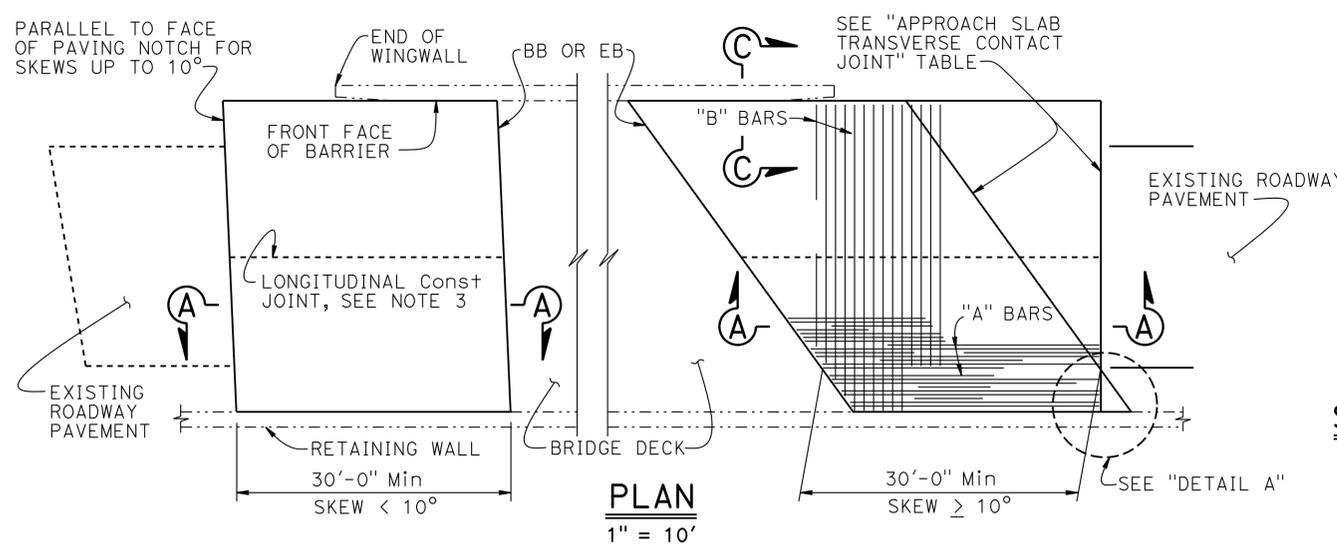
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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

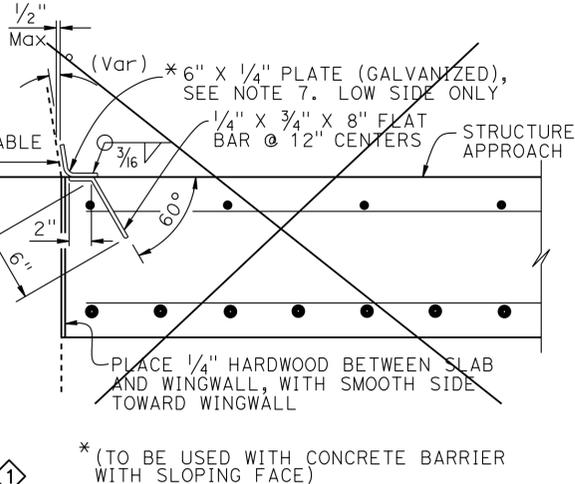
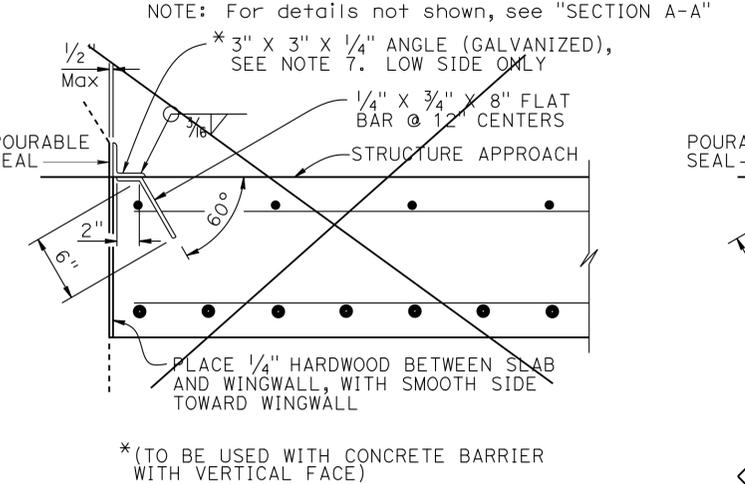
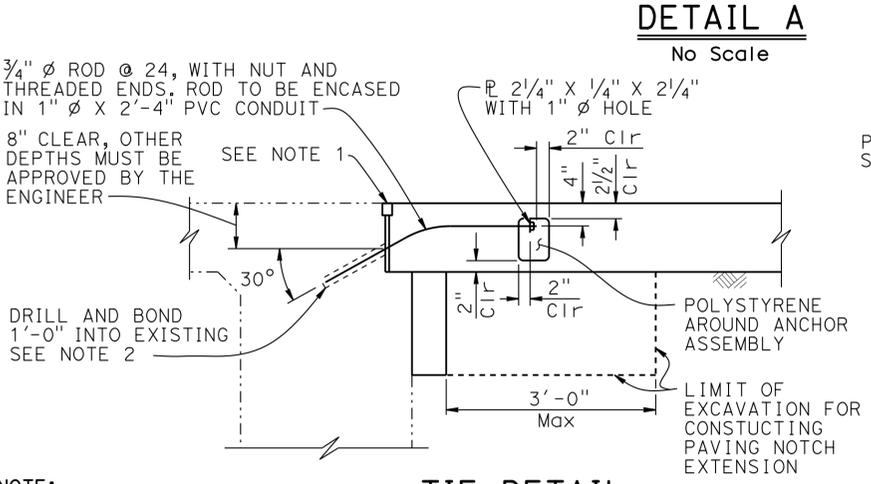
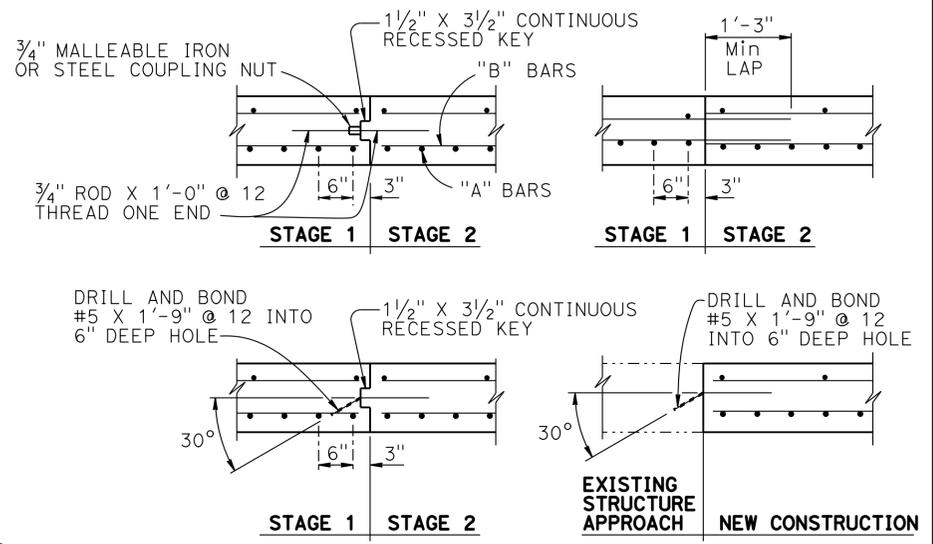
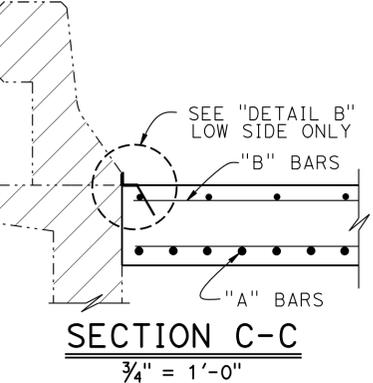
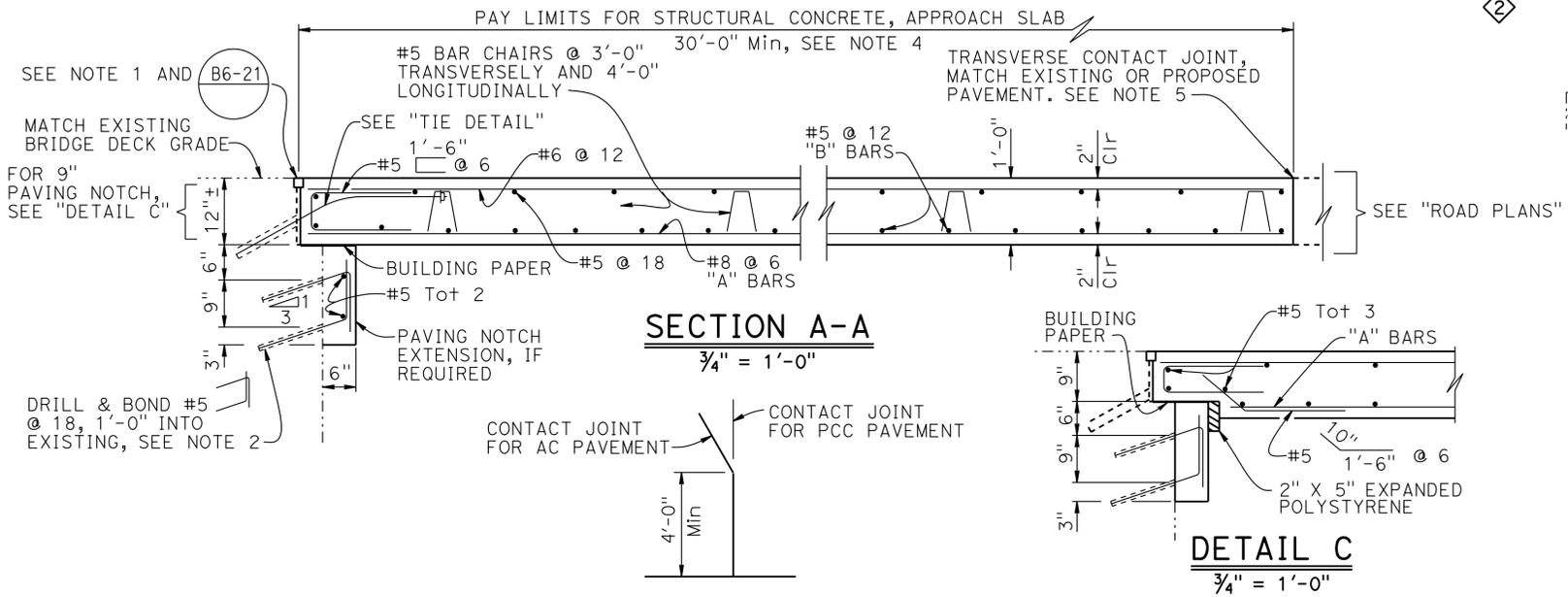
DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53-0870
POST MILE 40.46

VIA VERDE UNDERCROSSING (WIDEN)
STRUCTURE APPROACH TYPE N(30S)



APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PAVING NOTCH
10° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE



- NOTES:
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
 - Space to avoid existing prestress anchorages and main reinforcement
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines
 - Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10
 - Couplers are required for stage construction
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable

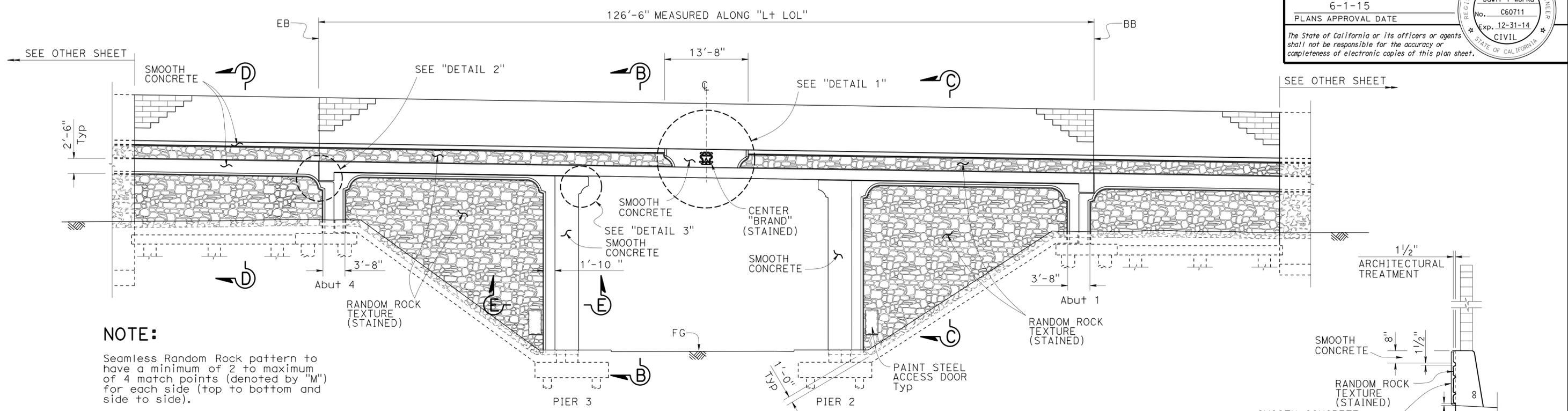
STANDARD DRAWING
 FILE NO. **xs3-150**
 APPROVAL DATE July 2011

- ① Deleted detail
- ② Modified detail

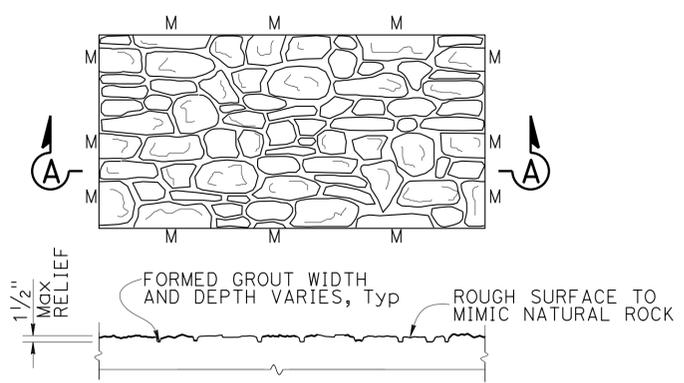
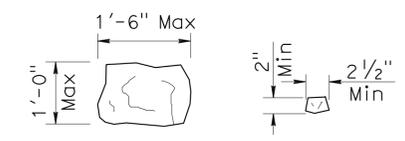
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 BRIDGE NO. 53-0870
 POST MILE 40.46

VIA VERDE UNDERCROSSING (WIDEN)
STRUCTURE APPROACH TYPE R(30D)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1689	2313
Dawit Tadelle Eger REGISTERED CIVIL ENGINEER			10/01/14 DATE		
6-1-15 PLANS APPROVAL DATE					
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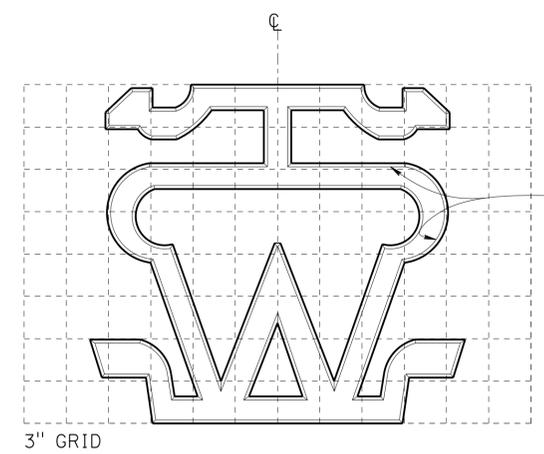


NOTE:
 Seamless Random Rock pattern to have a minimum of 2 to maximum of 4 match points (denoted by "M") for each side (top to bottom and side to side).
 * STAINED RANDOM ROCK
 FS# 33578, 30372, 30257, 30117, 30099
 FS (denotes Federal Standard Color)



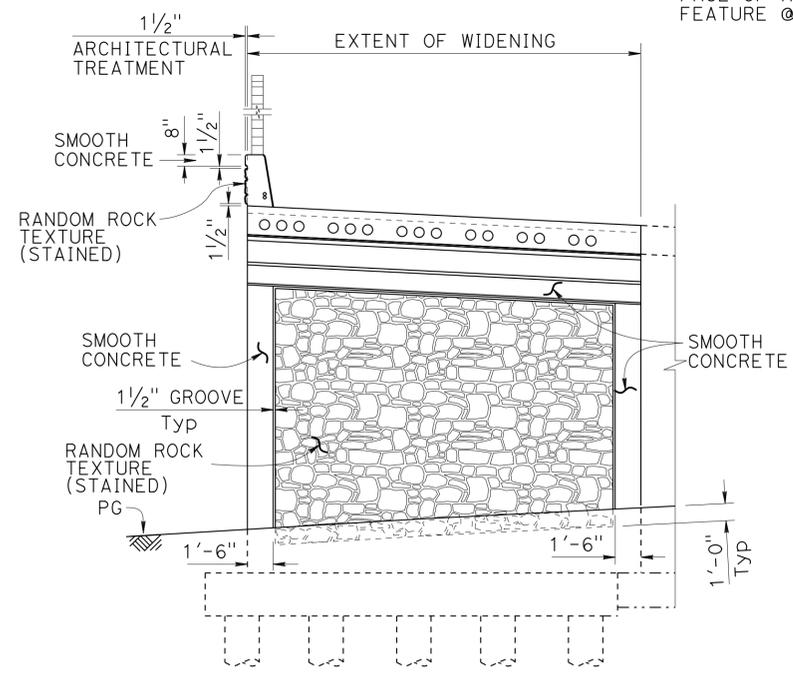
SECTION A-A
RANDOM ROCK TEXTURE
 NO SCALE

MIRROR ELEVATION (LEFT WIDEN)
 $1/8" = 1'-0"$

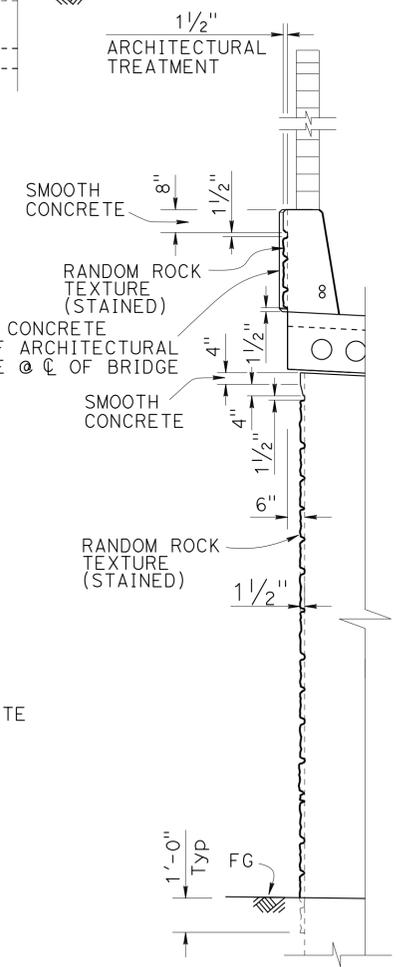


ARCHITECTURAL SURFACE TREATMENT (CATTLE BRAND PATTERN)

NOTE:
 1. Stain Federal Color 30117



SECTION B-B
 NO SCALE



SECTION C-C
 NO SCALE

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

DESIGN BY VALERIE MOORE	CHECKED HOMA IRANINEJADIAN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 53-0870	VIA VERDE UNDERCROSSING (WIDEN) ARCHITECTURAL TREATMENT (LEFT WIDEN)
DETAILS BY ANTONETTE L. ONG	CHECKED SHARAREH BIKAEI		POST MILE 40.46	
QUANTITIES BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL			

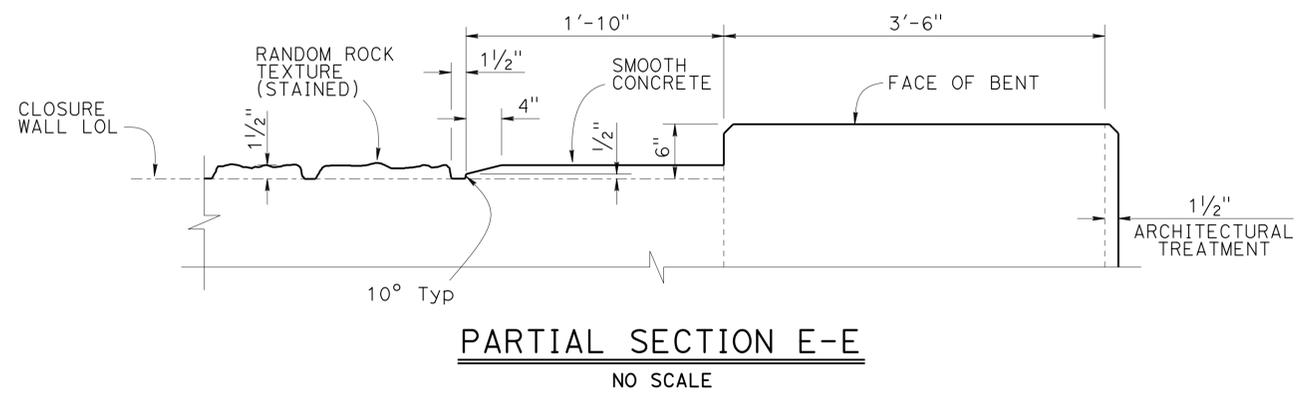
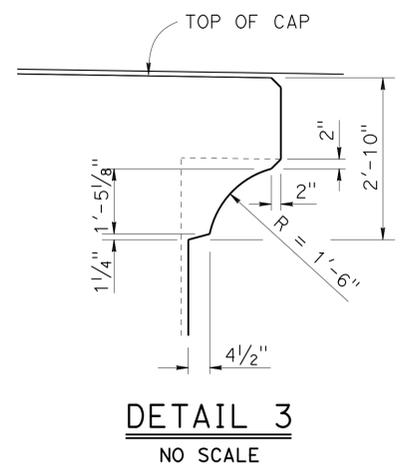
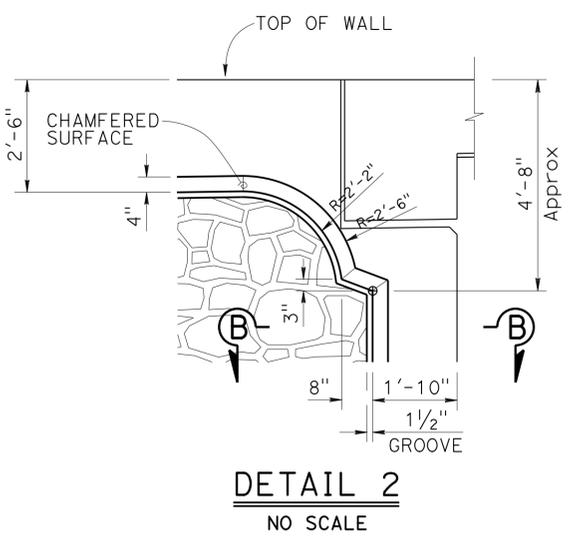
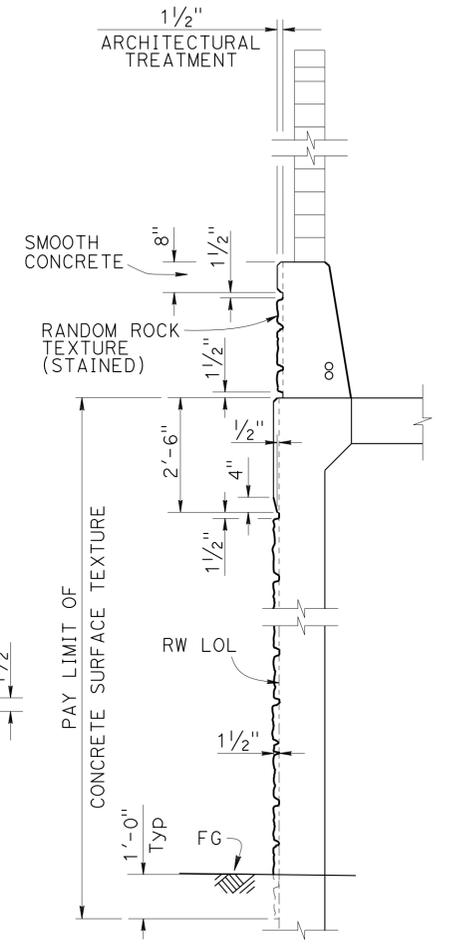
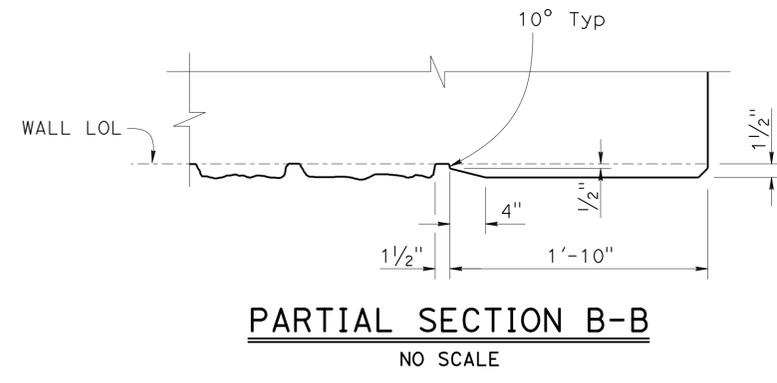
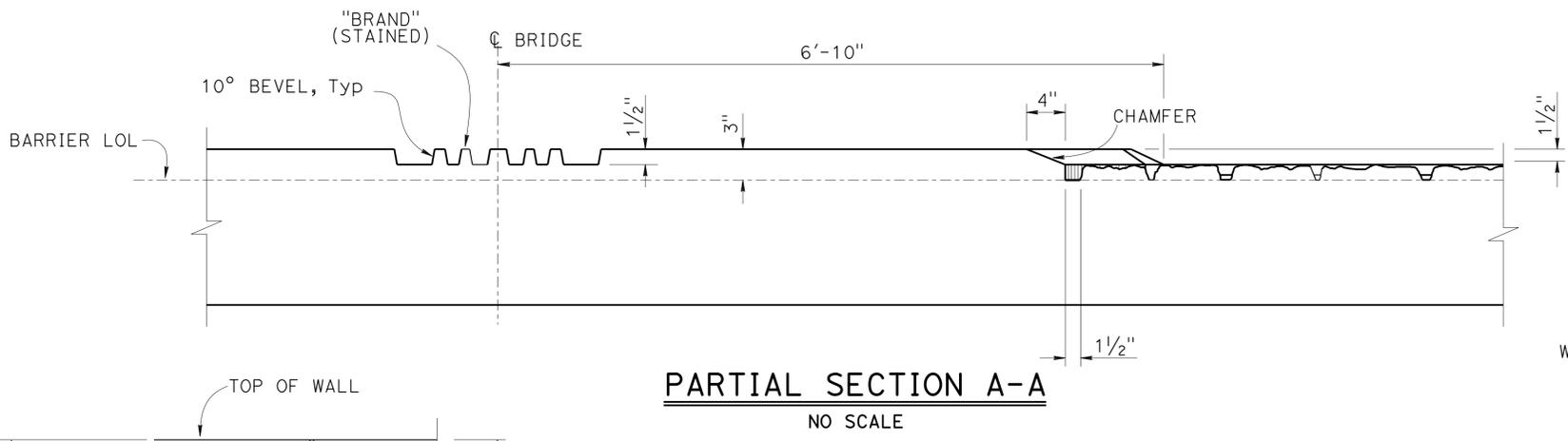
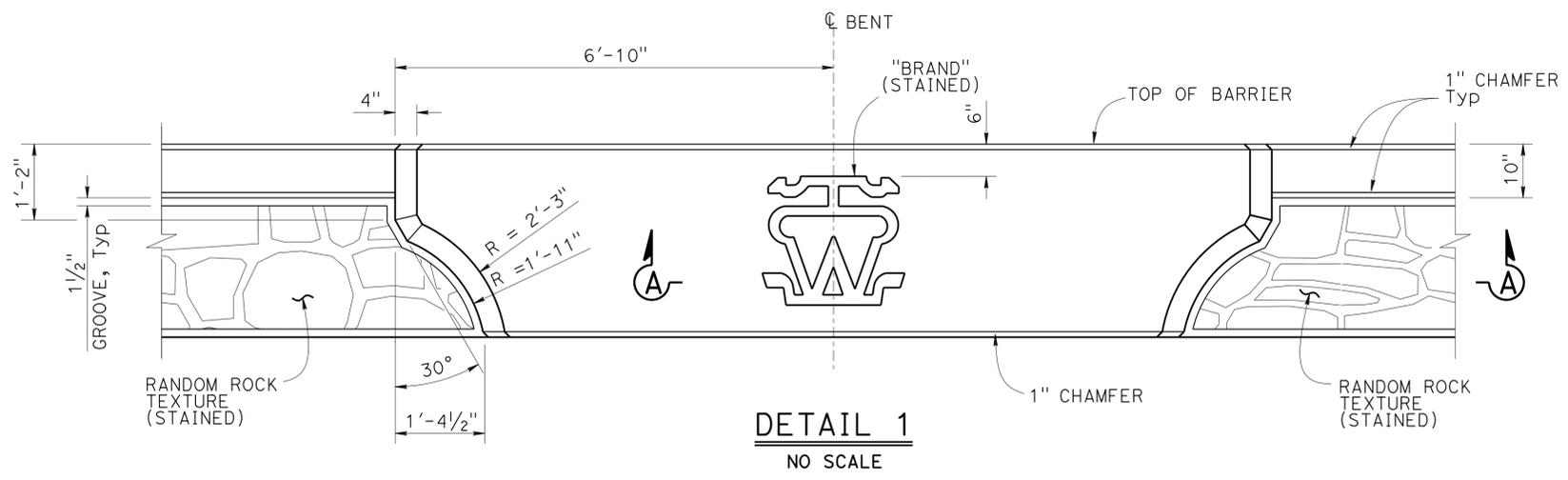
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1690	2313

Davit Tadelle Esq 10/01/14
 REGISTERED CIVIL ENGINEER DATE

6-1-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Dawit T Worku
 No. C60711
 Exp. 12-31-14
 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.



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

DESIGN	BY VALERIE MOORE	CHECKED HOMA IRANINEJADIAN
DETAILS	BY ANTONETTE L. ONG	CHECKED SHARAREH BIKAEI
QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-0870
POST MILE	40.46

VIA VERDE UNDERCROSSING (WIDEN)
ARCHITECTURAL TREATMENT DETAILS (LEFT WIDEN)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1691	2313

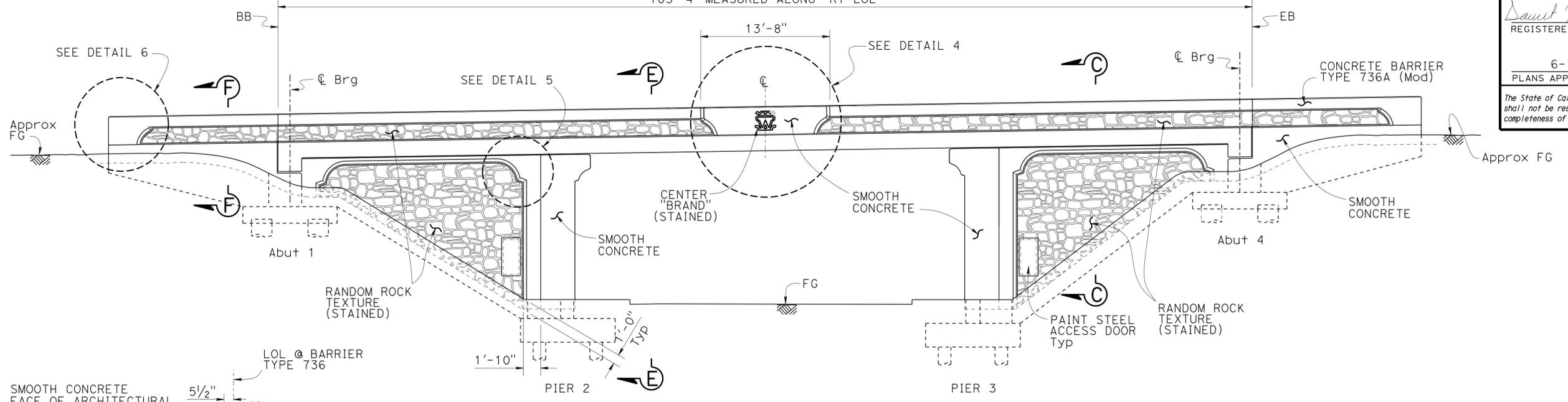
Davit Tadelle Esq 10/01/14
 REGISTERED CIVIL ENGINEER DATE

6-1-15
 PLANS APPROVAL DATE

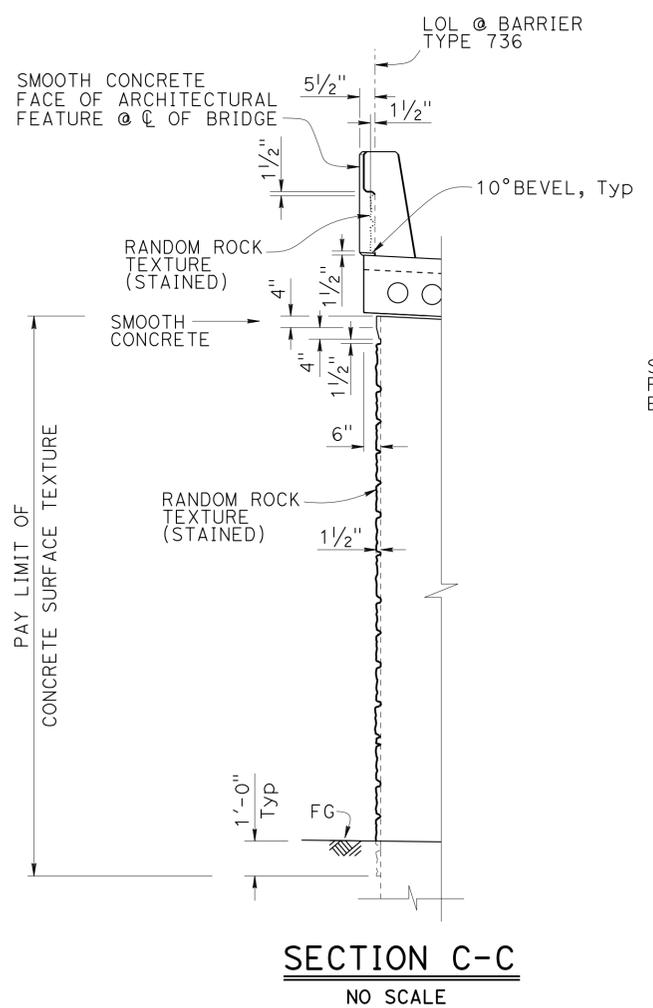
Davit T Worku
 No. C60711
 Exp. 12-31-14
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 STATE OF CALIFORNIA

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.

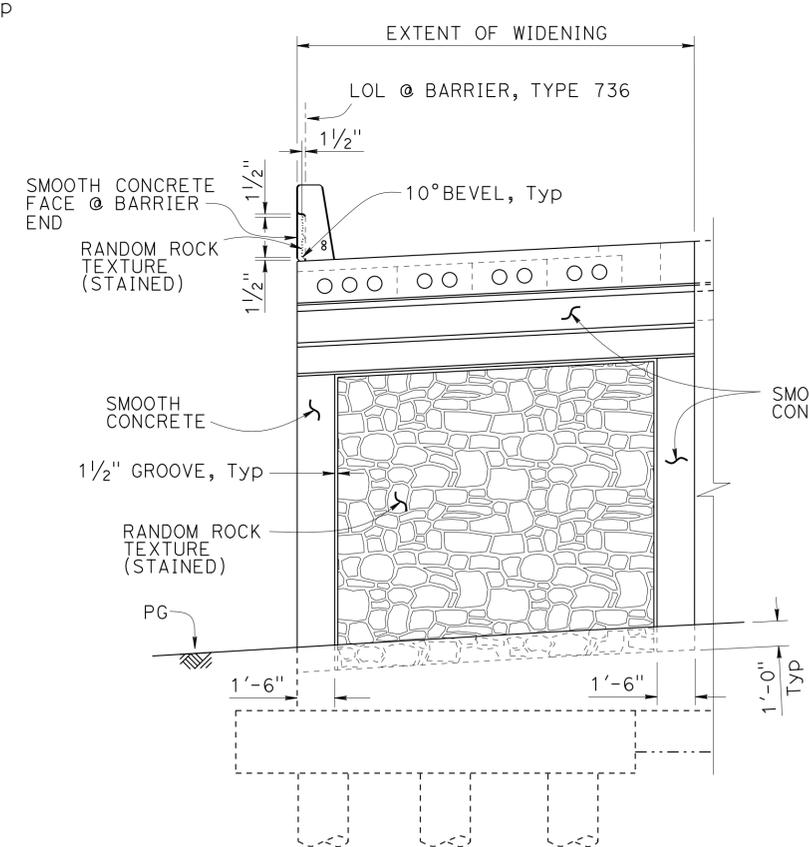
103'-4" MEASURED ALONG "R+ LOL"



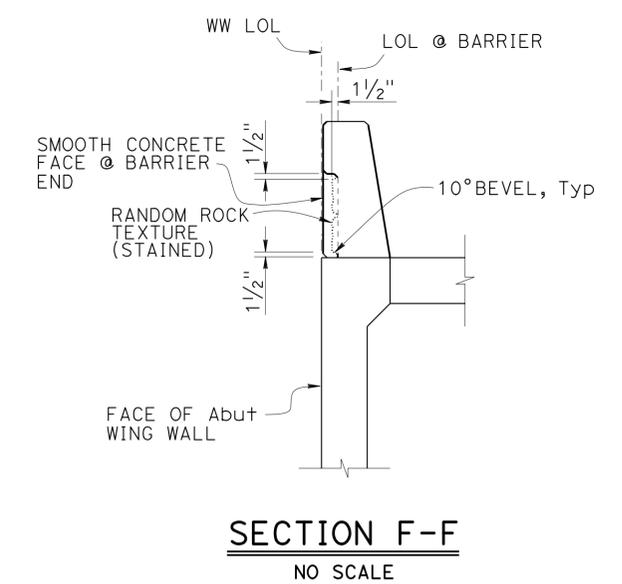
ELEVATION (RIGHT WIDEN)
 NO SCALE



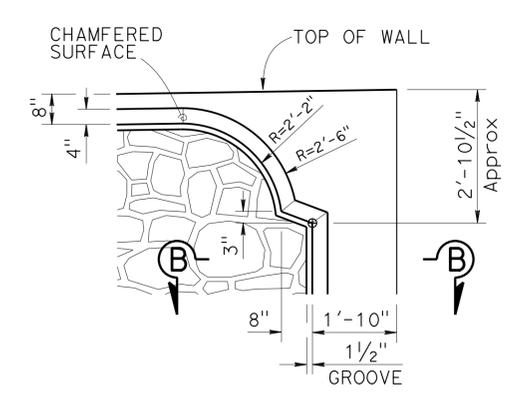
SECTION C-C
 NO SCALE



SECTION E-E
 NO SCALE



SECTION F-F
 NO SCALE



DETAIL 5
 NO SCALE

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

DESIGN	BY VALERIE MOORE	CHECKED HOMA IRANINEJADIAN
DETAILS	BY ANTONETTE L. ONG	CHECKED SHARAREH BIKAAE
QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL

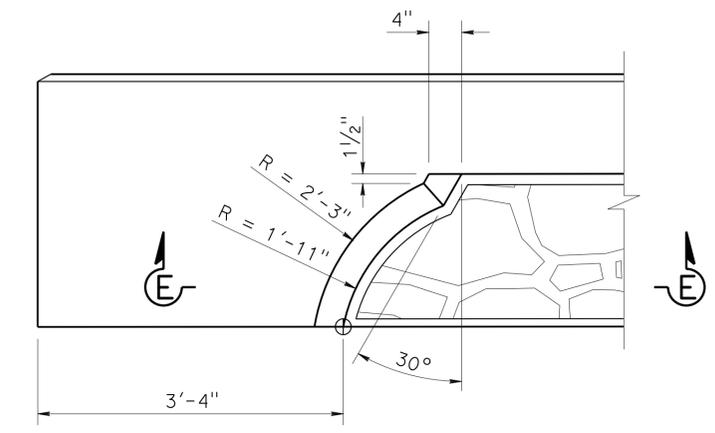
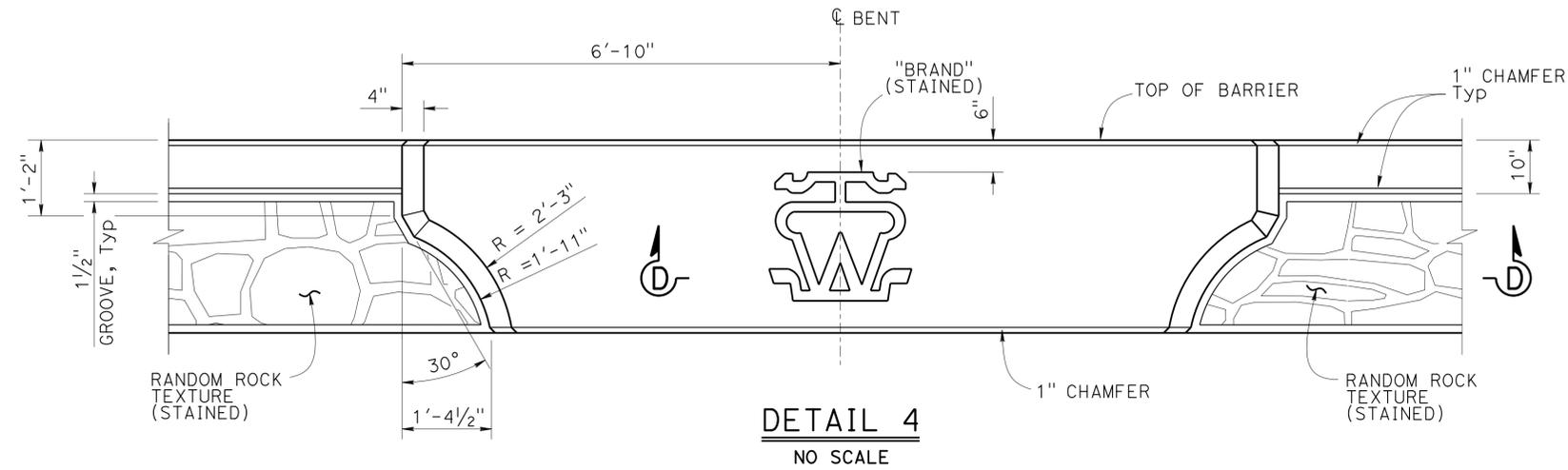
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 20

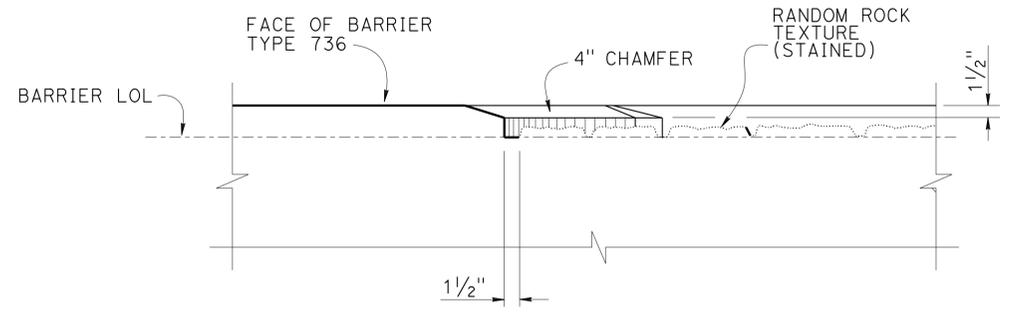
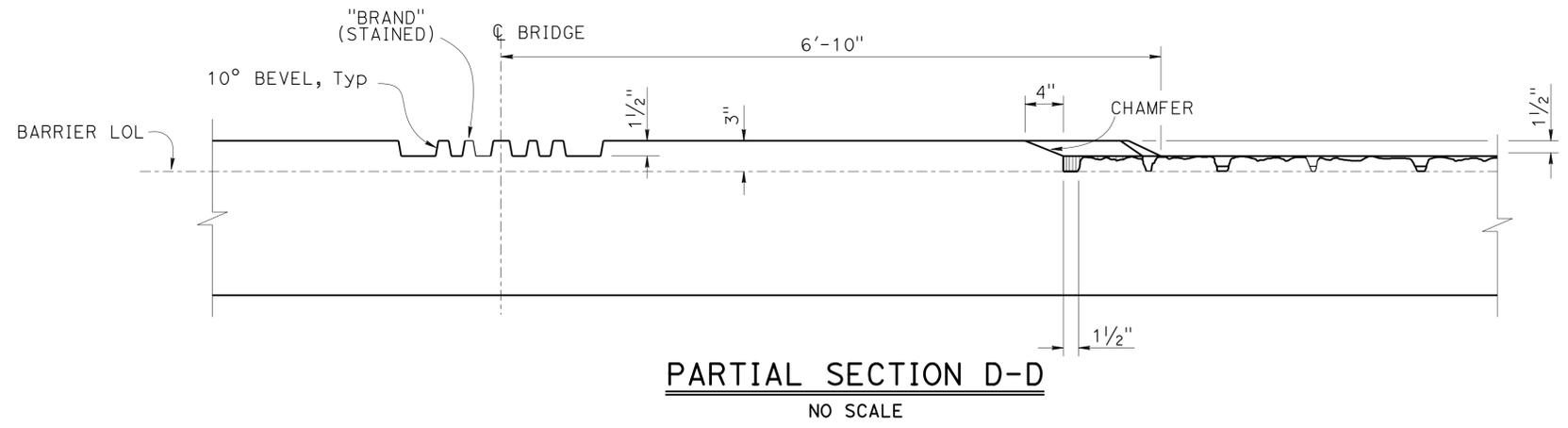
BRIDGE NO.	53-0870
POST MILE	40.46

VIA VERDE UNDERCROSSING (WIDEN)
ARCHITECTURAL TREATMENT (RIGHT WIDEN)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1692	2313
<i>Davit Tadelle Esq</i> REGISTERED CIVIL ENGINEER			10/01/14 DATE		
6-1-15 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



DETAIL 6-TYPICAL FOR BARRIER END
NO SCALE



PARTIAL SECTION E-E
NO SCALE

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

DESIGN	BY VALERIE MOORE	CHECKED HOMA IRANINEJADIAN
DETAILS	BY ANTONETTE L. ONG	CHECKED SHARAREH BIKAEI
QUANTITIES	BY HOMA IRANINEJADIAN	CHECKED BRIJESH PATEL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO.	53-0870
POST MILE	40.46

VIA VERDE UNDERCROSSING (WIDEN)
ARCHITECTURAL TREATMENT DETAILS (RIGHT WIDEN)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1693	2313

Michael Salisbury		2-4-14
CERTIFIED ENGINEERING GEOLOGIST	DATE	
6-1-15		
PLANS APPROVAL DATE		

PROFESSIONAL GEOLOGIST
 Michael A. Salisbury
 No. 2462
 Exp. 2-28-15
 CERTIFIED ENGINEERING GEOLOGIST
 STATE OF CALIFORNIA

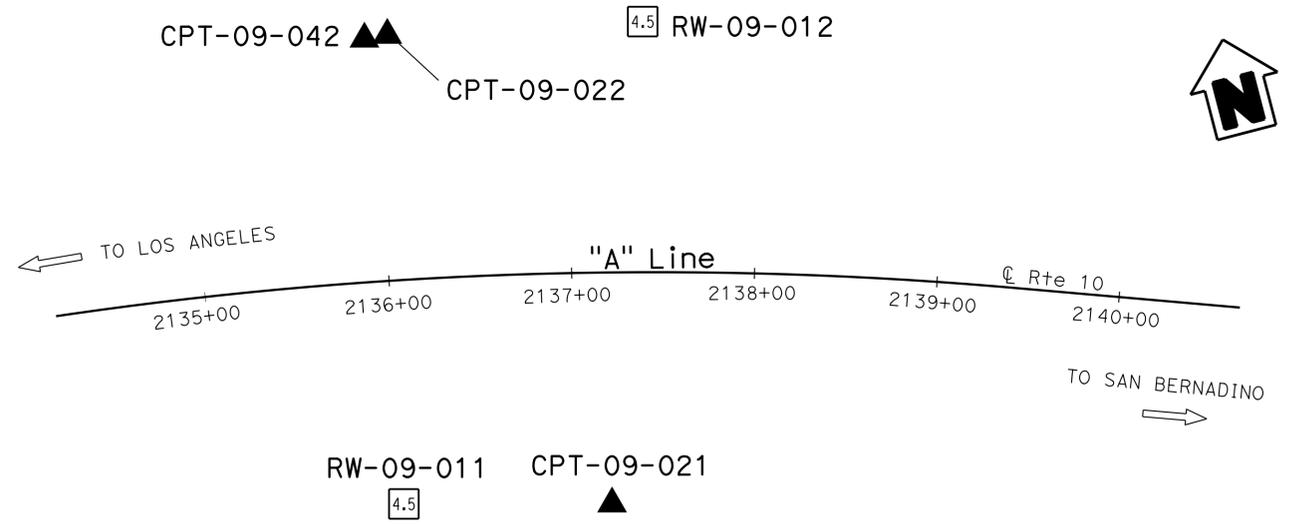
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).
 See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

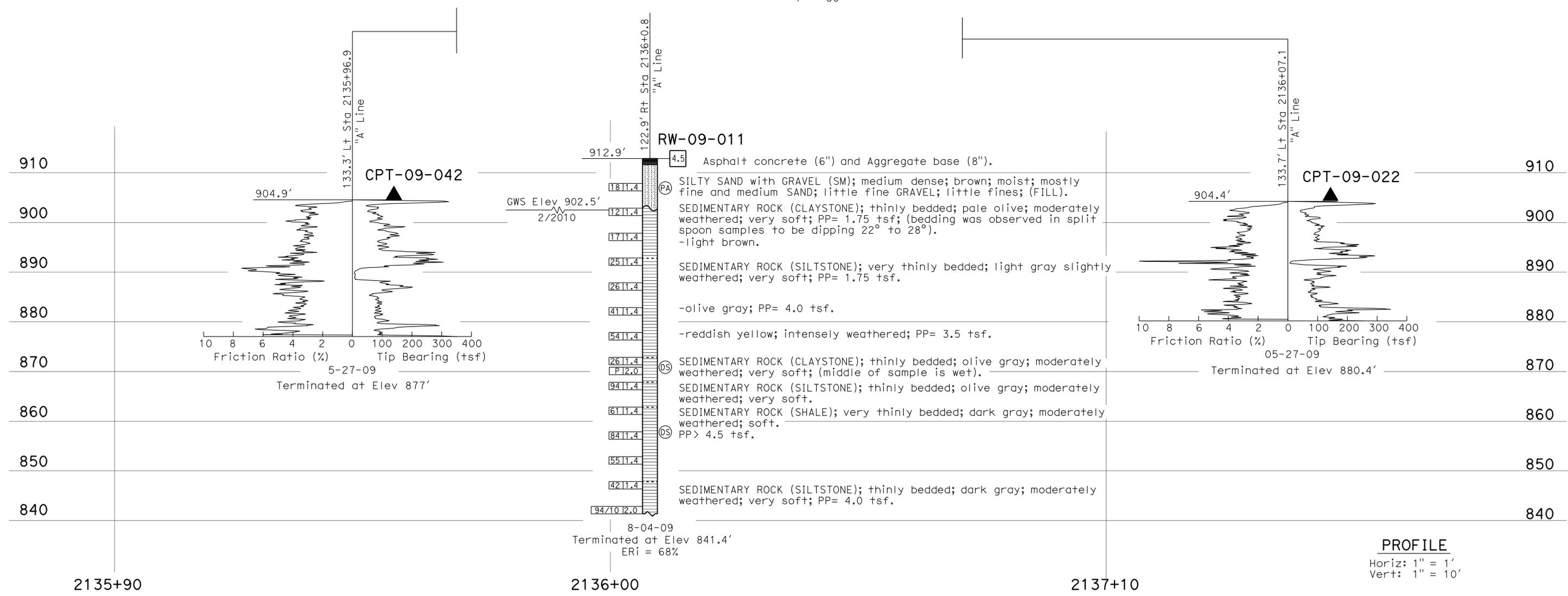
BENCH MARK

PRHV 10
 Fd L&T with LA Co Eng Washr
 162.0' Lt Sta 2136+67.0
 NAVD 88

SUHV 123
 Fd PK N in Areal Target Via Verde
 On-Ramp W/B 10
 159.5 Lt Sta 2136+45.5
 NAVD 88



PLAN
 1" = 50'



PROFILE
 Horiz: 1" = 1'
 Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		VIA VERDE UC WIDEN	
FUNCTIONAL SUPERVISOR		DRAWN BY: W. Tang 6/12, I.G-Remmen 12/13		FIELD INVESTIGATION BY:		BRIDGE NO.		LOG OF TEST BORINGS 1 OF 5	
NAME: D-J. Jang		CHECKED BY: H. Liu		M. Salisbury		53-0870			
06S CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		POST MILE			
						40.4/40.5			
						UNIT: 3643			
						PROJECT NUMBER & PHASE: 0700000097-1			
						CONTRACT NO.: 07-1193U1			
						DISREGARD PRINTS BEARING EARLIER REVISION DATES			
						REVISION DATES			
						07/13/12 07/25/12 08/07/12 02/04/14			
						SHEET			
						31			
						OF			
						35			

USERNAME => s125624 DATE PLOTTED => 16-MAY-2015 TIME PLOTTED => 14:08

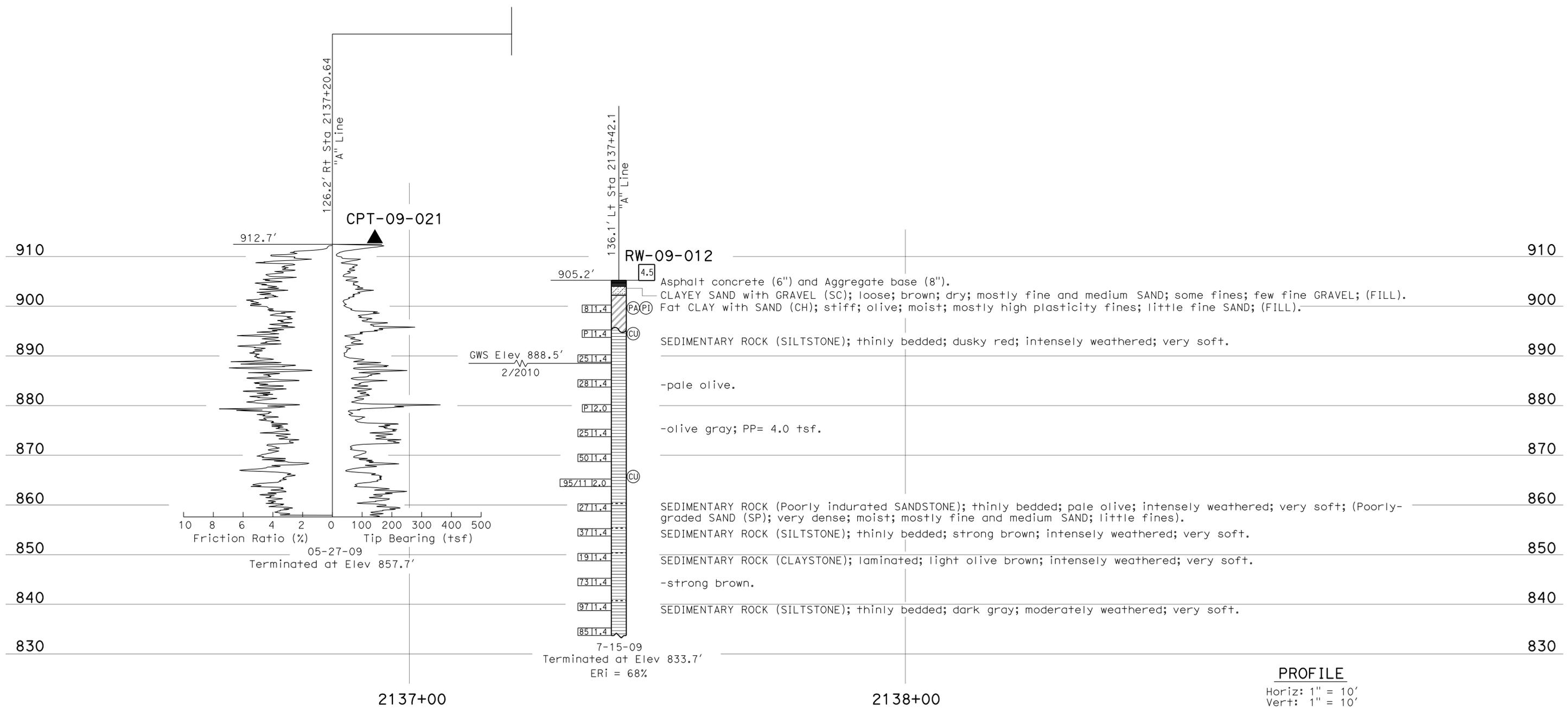
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1694	2313
			2-4-14		
CERTIFIED ENGINEERING GEOLOGIST			DATE		
6-1-15			PLANS APPROVAL DATE		

Michael Salisbury
No. 2462
Exp. 2-28-13
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 5"

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

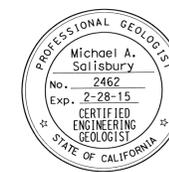


ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		VIA VERDE UC WIDEN	
FUNCTIONAL SUPERVISOR		DRAWN BY: W. Tang 06/12		DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 53-0870		LOG OF TEST BORINGS 2 OF 5	
NAME: D-J. Jang		CHECKED BY: H. Liu		FIELD INVESTIGATION BY: M. Salisbury		POST MILE 40.4/40.5			
06S CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 0700000097-1		CONTRACT NO.: 07-1193U1	
				0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES: 07/13/12, 08/07/12, 01/13/14, 02/04/14	
								SHEET 32 OF 35	

DATE PLOTTED => 18-MAY-2015 USERNAME => s125624

DIST.	COUNTY	ROUTE	POST MILES-TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10	33.2/40.9	629	749

DESIGN SECTION SUPERVISOR
 REGISTERED CIVIL ENGINEER NO. 9188
 DATE APPROVED: November 29, 1971



DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES
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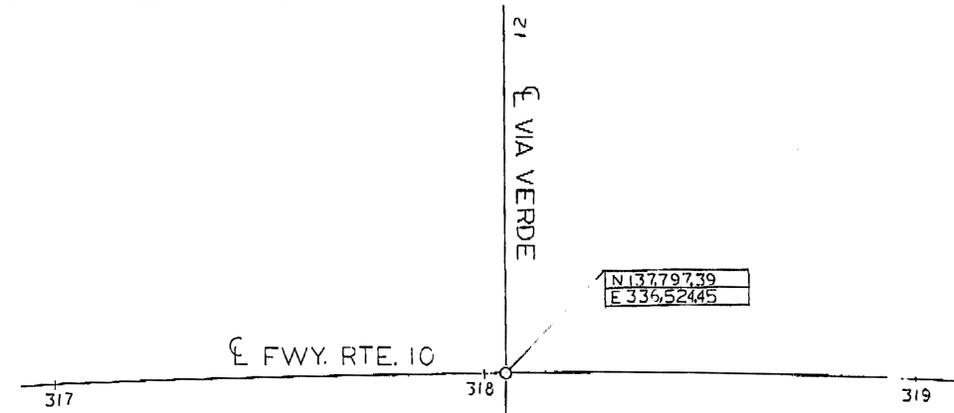
DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	Total Sheets
07	LA	10	37.2/42.4	1695	2313

VIA VERDE UC WIDEN
LOG OF TEST BORINGS 3 OF 5

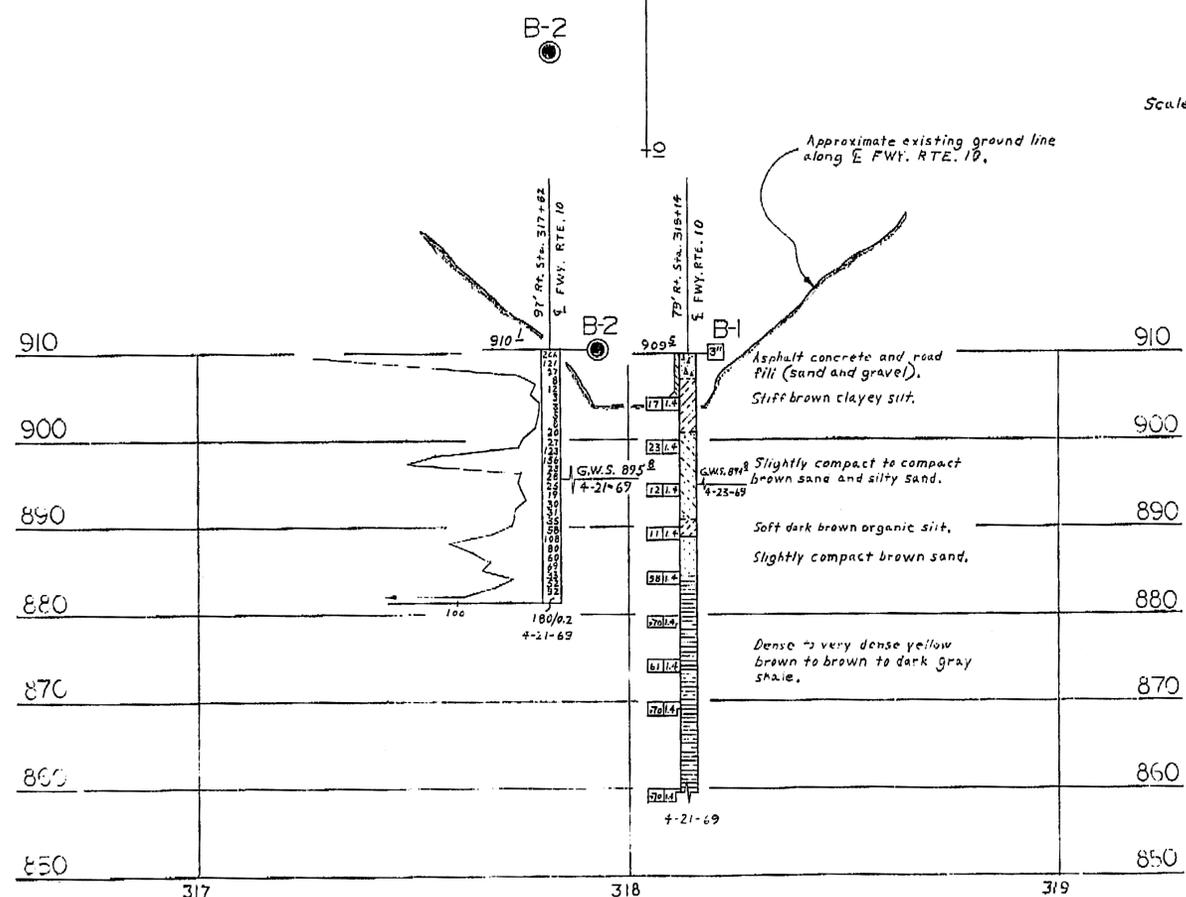
PROJ. No. & PHASE:	UNIT: 3643	CONTRACT No.:	BRIDGE No.:
AS-BUILT VERT DATUM: N/A	CONVERSION: N/A	07-1193U1	53-0870
NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA		Sheet	of
		6	6

TO ACCOMPANY PLANS DATED 6-1-15

BENCH MARKS
 BM# 318-V-68 Elev. 907.34
 Fd. chiseled knob on east curb
 Via Verde St. undercrossing at E
 freeway.



PLAN
 Scale: 1" = 20'

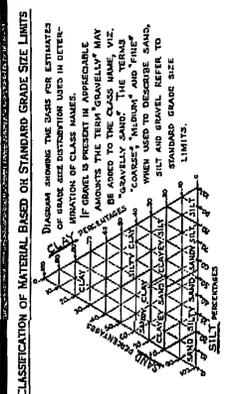


PROFILE
 Scale: Vert. 1" = 10'
 Horiz. 1" = 20'

FIELD STUDY	By P.E. CARROLL 4-24-69
DRAWN	By E.S. JIMENEZ 5-12-69
CHECKED	By R.F. GONZALES 6-3-69

LEGEND OF EARTH MATERIALS

GRAVEL	SAND	SILT	CLAY
CLAYEY CLAY OR CLAYEY SAND	CLAYEY SILT OR SILTY SAND	ORGANIC MATTER	FILL MATERIAL
GENUINE ROCK	SEDIMENTARY ROCK	METAMORPHIC ROCK	



NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

AS BUILT PLANS
 Contract No. 07-038824
 Date Completed
 Document No. 700073-44

AS BUILT NONE
 CORRECTIONS BY PAUL VUCOVICH
 CONTRACT NO. 07-038824
 8-12-75

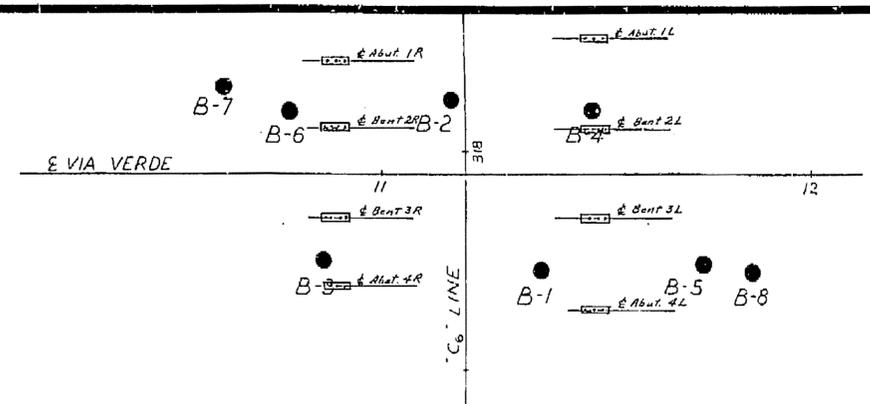
STATE OF CALIFORNIA TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
VIA VERDE UNDERCROSSING (WIDENING)			
LOG OF TEST BORINGS			
BRIDGE NO. 53-870	POST MILE 40.5	DRAWING NO.	SHEET 6 OF 6
REVISION DATES		PRELIMINARY DATES	

WO 038821
 CU 07213

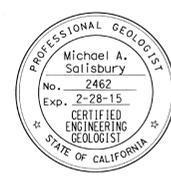
Discard prints bearing earlier revision dates

7/8/71					
--------	--	--	--	--	--

679



BENCH MARKS
 F.B.M. - "C₆" line Sta. 318+05.22 Elev. 903.44
 B.M. - Pt on E-Via-Verde (existing) @ Sta. 10+51 Elev. 909.73
 Reference L72.1
 T.B.M. "C₆" line Sta. 293+50 Elev. 834.14
 T.B.M. - "C₆" line Sta. 333+10 Elev. 957.31



Design File Loading: 45 Ton
 Type Pile Cast-in-drill-hole
 Diameter 16"
 Total No. Piles 22 pc
 "As Built" Linear Ft. 2557 LF
 "Plans" Linear Ft. 752.0 LF
 Remarks: Pile closest to E freeway in Bent 3 left was eliminated. Existing pile was used in its place.
 Small rocks @ Elev. 892.8 in Abut. # Left
 Concrete & re-bar found in Abut. 1 Left. Elev. 915.8

DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES

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DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	Total Sheets
07	LA	10	37.2/42.4	1696	2313

Michael A. Salisbury
 PROFESSIONAL GEOLOGIST
 DATE: 01/13/2014

VIA VERDE UC WIDEN
LOG OF TEST BORINGS 4 OF 5

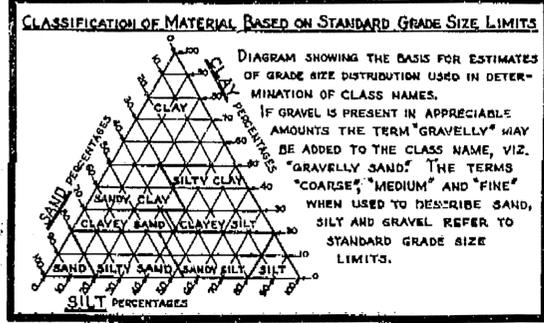
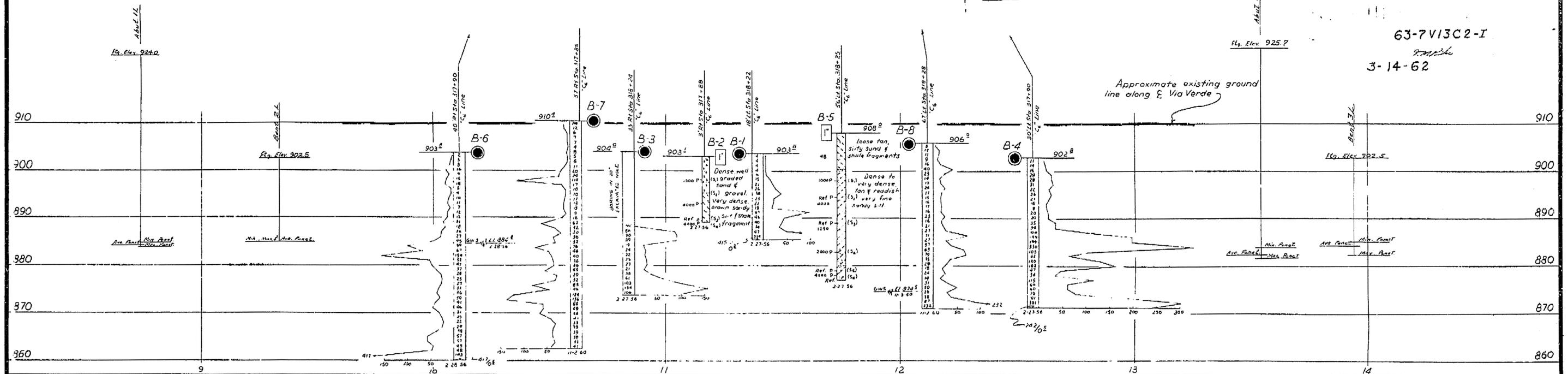
UNIT: 3643	CONTRACT No.	BRIDGE No.
PROJ. No. & PHASE: 07130000071	07-1193U1	53-0870

AS-BUILT VERT DATUM: N/A CONVERSION: N/A Sheet of

NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA

TO ACCOMPANY PLANS DATED 6-1-15

AS BUILT PLANS
 Contract No. 63-7V13C2
 Date Completed _____
 Document No. 70002317



LEGEND OF EARTH MATERIALS

GRAVEL	SILTY CLAY OR CLAYEY SILT
SAND	PEAT AND/OR ORGANIC MATTER
SILT	FILL MATERIAL
CLAY	IGNEOUS ROCK
SANDY CLAY OR CLAYEY SAND	SEDIMENTARY ROCK
SANDY SILT OR SILTY SAND	METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2 1/2" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WEY)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT

1" SOIL TUBE

ROTARY BORING

PENETRATION BORING

NOTES

The contractor's attention is directed to Section 5, Article (4) of the Standard Specifications and to the Special Provisions accompanying this set of plans.

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

VIA VERDE UNDERCROSSING WIDENING

LOG OF TEST BORINGS

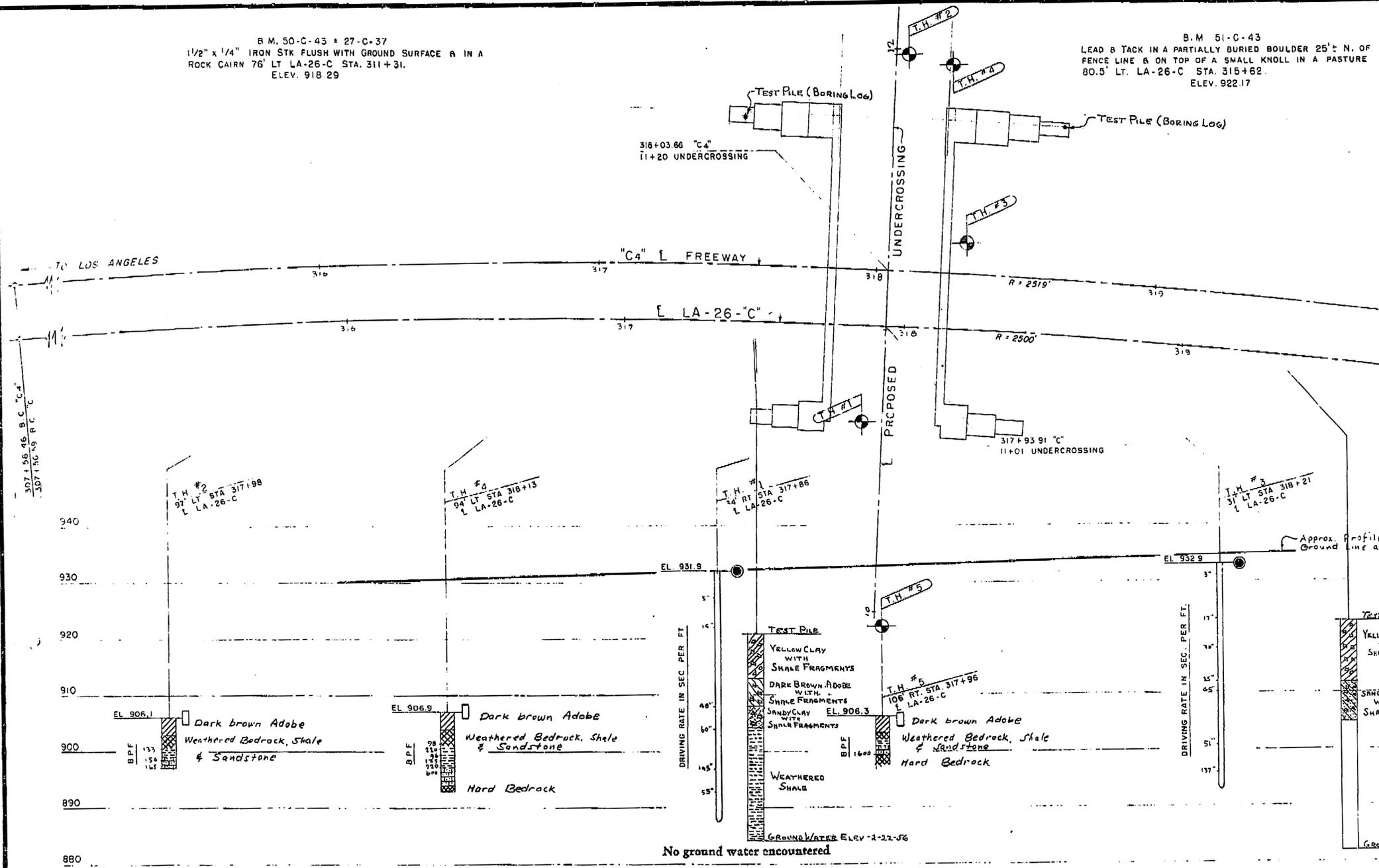
SCALE: Horiz. 1"=20'
 Vert. 1"=10'

BRIDGE 53-870 FILE DRAWING C-53870-9

DECEMBER 27 1954
 Michael A. Salisbury
 No. 2462
 Exp. 2-28-15
 CERTIFIED ENGINEERING GEOLOGIST
 STATE OF CALIFORNIA

B.M. 50-C-43 = 27-C-37
 1/2" x 1/4" IRON STK FLUSH WITH GROUND SURFACE A IN A
 ROCK CAIRN 76' LT. LA-26-C STA. 311+31.
 ELEV. 918.29

B.M. 51-C-43
 LEAD B TACK IN A PARTIALLY BURIED BOULDER 25' N. OF
 FENCE LINE & ON TOP OF A SMALL KNOLL IN A PASTURE
 80.5' LT. LA-26-C STA. 315+62.
 ELEV. 922.17



DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES

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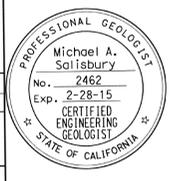
DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	Total Sheets
07	LA	10	37.2/42.4	1697	2313

UNIT: 3643
 PROJ. No. & PHASE: 07130000071
 CONTRACT No.: 07-1193U1
 BRIDGE No.: 53-0870
 AS-BUILT VERT DATUM: N/A
 CONVERSION: N/A
 DATE: 01/13/2017

VIA VERDE UC WIDEN
LOG OF TEST BORINGS 5 OF 5

NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA

TO ACCOMPANY PLANS DATED 6-1-15



Test Boring By Bridge Dept.
 Core Drill, April 1952

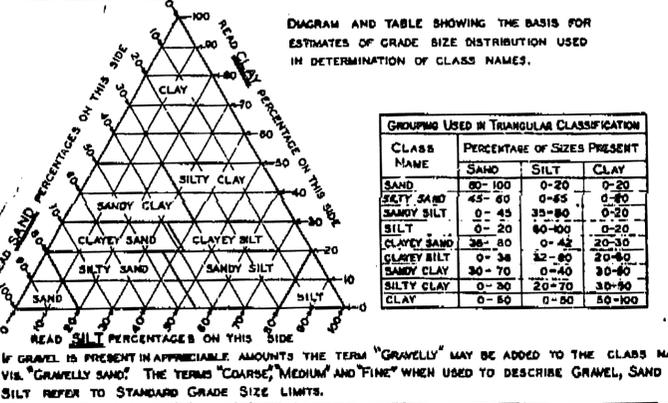
NOTE: Blows per foot are blows required to drive a 1 inch test pipe one foot with a 32 lb drop hammer from a free fall of 12 inches.

AS BUILT
 CORRECTIONS BY *J.L. Hume*
 DATE 3/22/57
 55-76C43-F

BRIDGE DEPARTMENT
 STATE OF CALIFORNIA
 DEPARTMENT OF HIGHWAYS

CLASS	DESCRIPTION	DATE
1	DESIGNED	11/23/54
2	CONSTRUCTED	11/23/54
3	INSPECTED	11/23/54
4	APPROVED	11/23/54

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS



LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
 - 1" SAMPLER BORING
 - ROTARY WASH BORING
 - 1" CLOSED SAMPLER DRIVEN
 - CORE BORING
 - 2 1/2" PENETROMETER DRIVEN
 - 1 3/8" SAMPLER BORING
 - 2" TO 5" AUGER BORING
 - 6" TO 20" AUGER BORING
 - CASING DRIVEN
 - JET BORING
 - (S) SAMPLE TAKEN
 - 1 9/8" A-ROD DRIVEN
- THE APPROPRIATE BORING SYMBOLS DESIGNATING THE METHOD OF OPERATION ARE SHOWN AT THE UPPER RIGHT-HAND CORNER OF THE RESPECTIVE BORING. TOOL CHANGES DURING THE BORING OPERATION SYMBOLS ARE SHOWN AT THE POINT OF CHANGE.

LEGEND OF EARTH MATERIALS

- GRAVEL - G
- SAND - S
- SILT - Si
- CLAY - C
- SILTY SAND - Si S
- CLAYEY SAND - C S
- SANDY SILT - S Si
- CLAYEY SILT - C Si
- SANDY CLAY - SC
- SILTY CLAY - Si C
- PEAT AND/OR ORGANIC CLAY - O
- SANDSTONE - SS
- SHALE - SH
- BROKEN ROCK (FRAGMENTS) - BR
- ROCK - R
- FILL MATERIAL

ABBREVIATIONS

- EL. 89.4 ELEVATION OF GROUND AT TEST HOLE
- b p f BLOWS PER FOOT - (SEE NOTE ABOVE)
- P PULLED PIPE
- M MOISTURE AS % DRY WEIGHT
- EL. 81.3 ELEVATION OF GROUND WATER AND DATE

NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (C) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS.
 CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS.

Via Verde Undercrossing

LOG OF TEST BORINGS

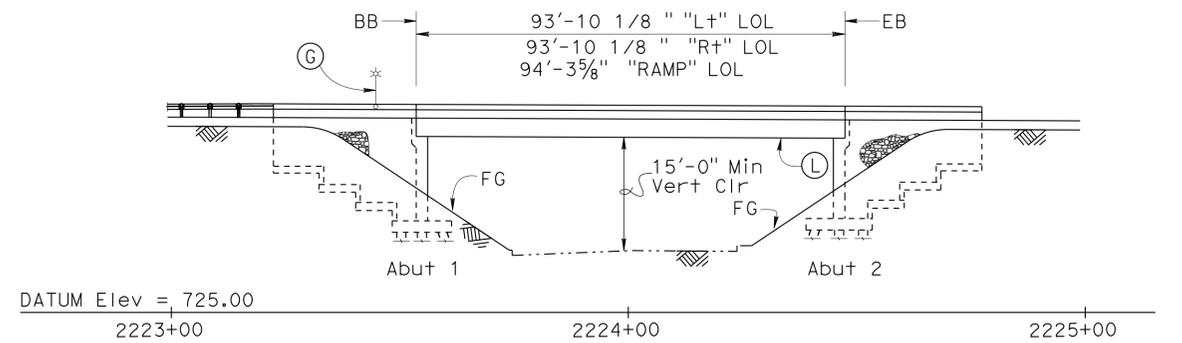
HORIZ. 1" = 20'	FILE NO.
SCALE VERT. 1" = 10'	BRIDGE NO. 53-870
	DRAWING NO. 10-8

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1698	2313

Dawit Tadelle Eger 10/01/14
 REGISTERED CIVIL ENGINEER DATE
 6-1-15
 PLANS APPROVAL DATE
 Dawit T Worku
 No. C60711
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA
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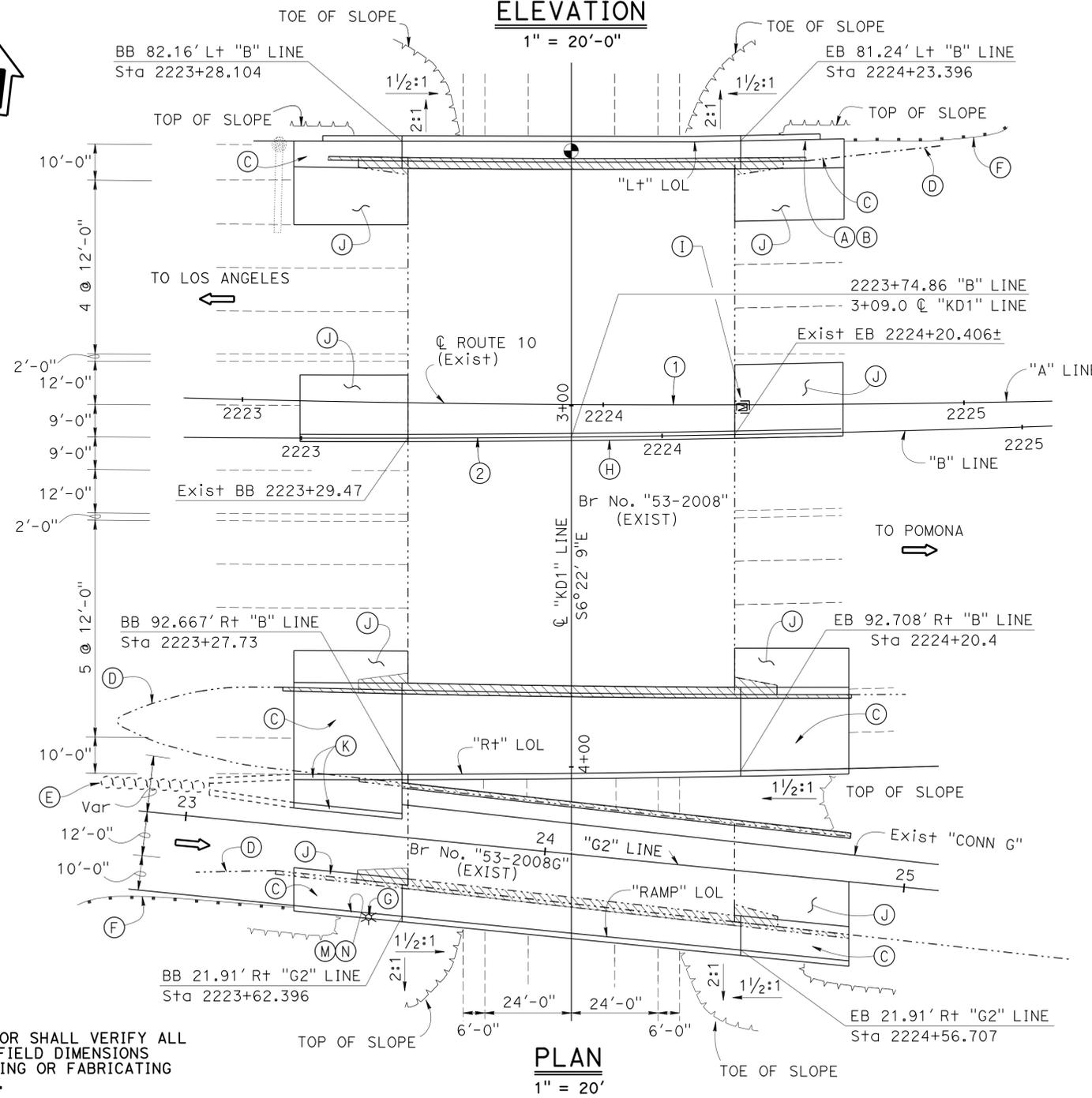
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	1	CF
SALVAGE METAL BRIDGE RAILING	610	LF
REMOVE UNSOUND CONCRETE	1	CF
REFINISH BRIDGE DECK	182	SQFT
BRIDGE REMOVAL (PORTION), LOCATION E	LUMP	SUM
STRUCTURE EXCAVATION (BRIDGE)	942	CY
STRUCTURE BACKFILL (BRIDGE)	1,146	CY
JACKING SUPERSTRUCTURE	LUMP	SUM
FURNISH STEEL PILING (HP 14 X 89)	2,990	LF
DRIVE STEEL PILE (HP 14 X 89)	48	EA
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE FOOTING	255	CY
STRUCTURAL CONCRETE, BRIDGE	560	CY
AGGREGATE BASE (APPROACH SLAB)	14	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	95	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	133	CY
PAVING NOTCH EXTENSION	85	CF
CONCRETE SURFACE TEXTURE	995	SQFT
DRILL AND BOND DOWEL	417	LF
CLEAN EXPANSION JOINT	94	LF
JOINT SEAL (MR 1")	113	LF
JOINT SEAL (TYPE AL)	94	LF
BAR REINFORCING STEEL (BRIDGE)	130,179	LB
PREPARE AND STAIN CONCRETE	1,135	SQFT
CONCRETE BARRIER (TYPE 60GA MODIFIED)	154	LF
CONCRETE BARRIER (TYPE 736)	154	LF
CONCRETE BARRIER (TYPE 736 MODIFIED)	417	LF



ELEVATION

1" = 20'-0"



PLAN

1" = 20'

NOTES:

- Left Widen shall be constructed above final grade to provide for required false work clearance and shall be lowered to grade upon removal of falsework
- For Typical Section, see "GENERAL PLAN NO. 2" sheet
- For Index to Plans and Piles details, see "INDEX TO PLANS" sheet

- (A) Paint "Kellogg Drive UC"
- (B) Paint Bridge No. "53-2008"
- (C) Structure Approach Type N(30S)
- (D) Remove MBGR, see "ROAD PLANS"
- (E) Barrier and Crash Cushion, see "ROAD PLANS"
- (F) Midwest Guardrail System, see "ROAD PLANS"
- (G) Electrolier, see "ROAD PLANS"
- (H) Concrete Barrier Type 60GA (Mod)
- (I) Existing Storm Drain, see "ROAD PLANS"
- (J) Structure Approach Type R(30D)
- (K) Concrete Barrier Type 736, see "MISCELLANEOUS DETAILS" sheet
- (L) Soffit Luminaire, see "ROAD PLANS"
- (M) Paint "E10-S57 & N57 Connector"
- (N) Paint Bridge No. "53-2008G"

LEGEND:

- Indicates New Construction
- - - - - Indicates Existing Structure
- ▨ Bridge Removal (Portion)
- Indicates Point of Minimum Vertical Clearance
- ⇄ Indicates Traffic Direction

CURVE DATA

LINE	R	Δ	T	L
①	5000.00	26°19'23"	1169.20	2297.12
②	5426.36	14°34'31"	693.95	1380.40

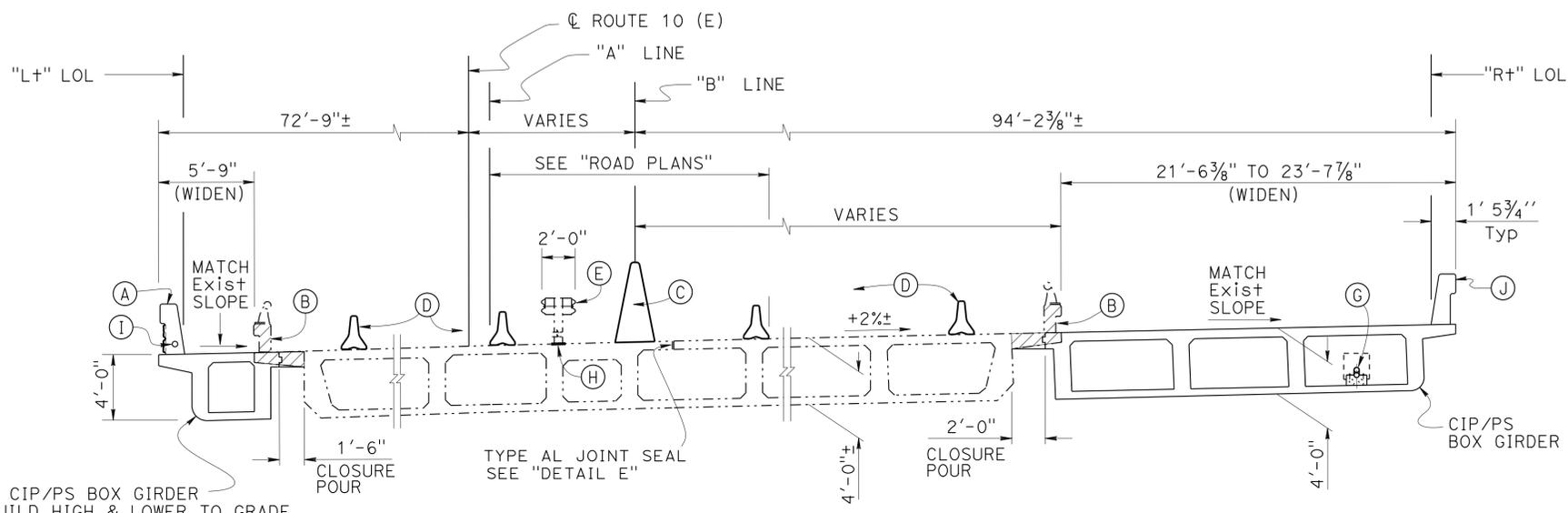
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

HOWARD NG DESIGN ENGINEER	DESIGN	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	KELLOGG DRIVE UC (WIDEN) GENERAL PLAN NO. 1
	DETAILS	BY A. ONG/K. FARAHZADI	CHECKED FEIRUZ ABERRA	LAYOUT	BY MOHAMMAD MUQTADIR			CHECKED FEIRUZ ABERRA	
QUANTITIES	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA	SPECIFICATIONS	BY XIAODONG CHEN	PLANS AND SPECS COMPARED XIAODONG CHEN	PROJECT NUMBER & PHASE: 0713000007-4	POST MILE	42.12	

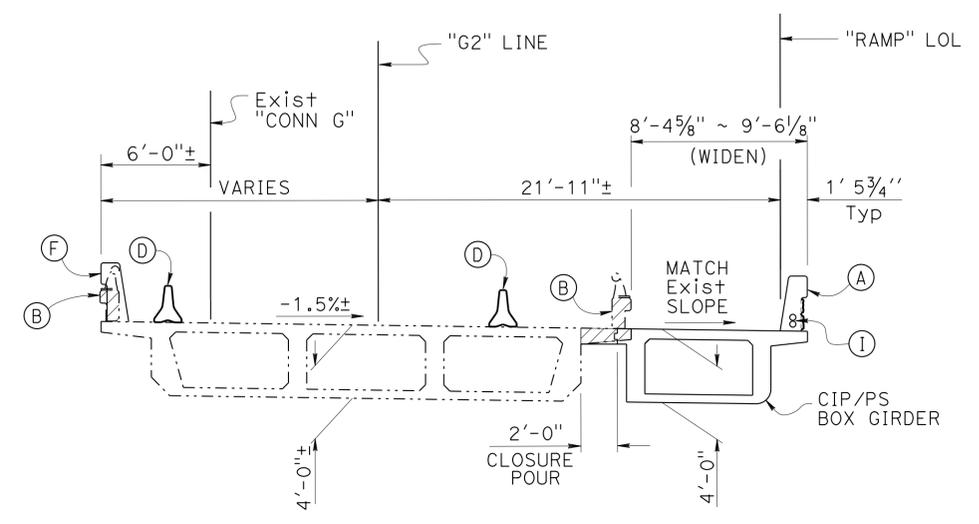
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3622 CONTRACT NO.: 07-1193U1
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 09/09/14 06/07/14 06/11/14
 SHEET 1 OF 31

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1699	2313

Dawit Tadelle Esq. 10/01/14
 REGISTERED CIVIL ENGINEER DATE
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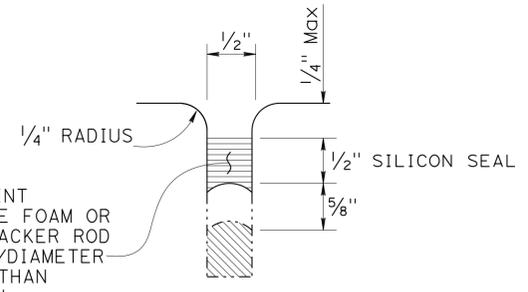


Br No. 53-2008



Br No. 53-2008G

TYPICAL SECTION
1" = 5'-0"



DETAIL E
NO SCALE

NOTES:

- (A) Concrete Barrier Type 736 (Mod 4)
- (B) Remove Barrier Railing (Type 9) Salvage Metal Bridge Railing
- (C) Concrete Barrier Type 60GA (Mod), see "MISCELLANEOUS DETAILS" sheet
- (D) Temporary Railing (Type K), see "ROAD PLANS" and "MISCELLANEOUS DETAILS" sheet for Anchor details
- (E) Remove MBGR, see "ROAD PLANS"
- (F) Concrete Barrier Type 736 (Mod 3), see "MISCELLANEOUS DETAILS" sheet
- (G) 2-3 1/2" ø Communication Conduits, see "ROAD PLANS"
- (H) Refinish Bridge Deck
- (I) 2" ø Electrical Conduit, see "ROAD PLANS"
- (J) Concrete Barrier Type 736

LEGEND:

- Indicates New Construction
- - - - - Indicates Existing Structure
- ▨ Bridge Removal (Portion)

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

HOWARD NG DESIGN ENGINEER	DESIGN	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	KELLOGG DRIVE UC (WIDEN) GENERAL PLAN NO. 2		
	DETAILS	BY A. ONG/K. FARAZHADI	CHECKED FEIRUZ ABERRA	LAYOUT	BY MOHAMMAD MUQTADIR			CHECKED FEIRUZ ABERRA		53-2008	
	QUANTITIES	BY MOHAMMAD MUQTADIR	CHECKED FEIRUZ ABERRA	SPECIFICATIONS	BY XIAODONG CHEN			CHECKED XIAODONG CHEN		53-2008G	
						PROJECT NUMBER & PHASE: 0713000007-4	CONTRACT NO.: 07-1193U1	POST MILE	42.12		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS								UNIT: 3622 PROJECT NUMBER & PHASE: 0713000007-4 CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 03/29/14 05/08/14 05/21/14	SHEET 2 OF 31

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1700	2313

Dawit Tadelle Esq. 10/01/14
 REGISTERED CIVIL ENGINEER DATE

6-1-15
 PLANS APPROVAL DATE

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INDEX TO PLANS

NO.	SHEET NAME
1.	GENERAL PLAN NO. 1
2.	GENERAL PLAN NO. 2
3.	INDEX TO PLANS
4.	FOUNDATION PLAN
5.	CONCRETE REMOVAL DETAILS NO. 1
6.	CONCRETE REMOVAL DETAILS NO. 2
7.	ABUTMENT 1 LAYOUT
8.	ABUTMENT 2 LAYOUT
9.	ABUTMENT DETAILS NO. 1
10.	ABUTMENT DETAILS NO. 2
11.	ABUTMENT DETAILS NO. 3
12.	ABUTMENT DETAILS NO. 4
13.	RETAINING WALL LAYOUT NO. 1
14.	RETAINING WALL LAYOUT NO. 2
15.	BRIDGE JACKING DETAILS (LEFT WIDEN)
16.	TYPICAL SECTION
17.	GIRDER LAYOUT NO. 1
18.	GIRDER LAYOUT NO. 2
19.	GIRDER REINFORCEMENT NO. 1
20.	GIRDER REINFORCEMENT NO. 2
21.	MISCELLANEOUS DETAILS
22.	APPROACH SLAB LAYOUT
23.	STRUCTURE APPROACH DRAINAGE DETAILS
24.	STRUCTURE APPROACH TYPE N(30S)
25.	STRUCTURE APPROACH TYPE R(30D)
26.	ARCHITECTURAL TREATMENT
27.	ARCHITECTURAL TREATMENT DETAILS
28.	LOG OF TEST BORINGS 1 OF 4
29.	LOG OF TEST BORINGS 2 OF 4
30.	LOG OF TEST BORINGS 3 OF 4
31.	LOG OF TEST BORINGS 4 OF 4

GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4th Edition dated with the Caltrans Amendments, preface dated November 2011

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC) version 1.6 dated November 2010

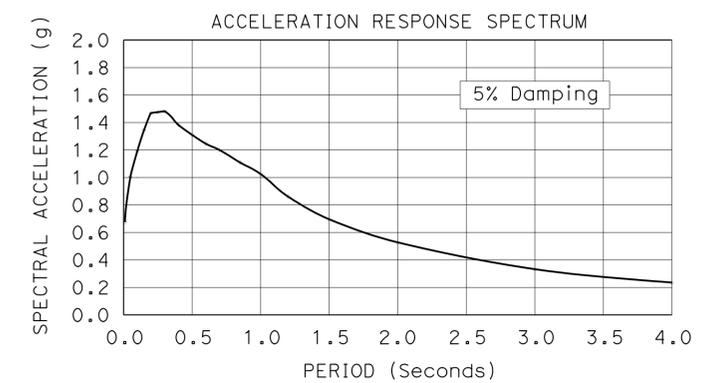
DEAD LOAD: Includes 35 psf for future wearing surface

LIVE LOAD: HL-93 and permit design Load

SEISMIC LOADING: Soil Profile: Shear Wave Velocity of top 100 ft of Soil
 $V_{s30} = 290$ m/sec
 Moment Magnitude $M_{max} = 6.9$
 Peak Ground Acceleration = 0.64 g

REINFORCED CONCRETE: $f_y = 60$ ksi (Except as shown on Concrete Strength and Type Limits Diagram)
 $f'_c = 3.6$ ksi
 $n = 8$

PRESTRESSED CONCRETE: See "PRESTRESSING NOTES" on "GIRDER LAYOUT No. 1" and "GIRDER LAYOUT No. 2" sheets



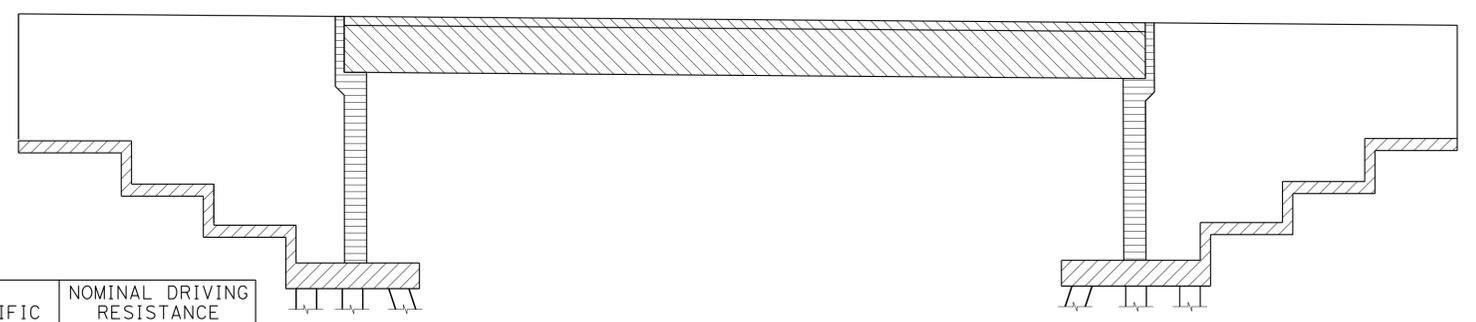
MODIFIED ARS CURVE

STANDARD PLANS 2010

A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE SURCHARGE AND WALL
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
A76A	CONCRETE BARRIER TYPE 60
A76D	CONCRETE BARRIER TYPE 60G
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
RSP B3-1A	RETAINING WALL TYPE 1 (CASE 1)
RSP B3-5	RETAINING WALL DETAILS NO. 1
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-1	BOX GIRDER DETAILS
B7-10	UTILITY OPENING BOX GIRDER
B8-5	CAST IN PLACE PRESTRESSED GIRDER DETAILS
RSP B11-56	CONCRETE BARRIER TYP 736
B14-3	COMMUNICATION AND SPRINKLER CONTROL CONDUITS (CONDUIT LESS THAN 4")

PILE DATA TABLE

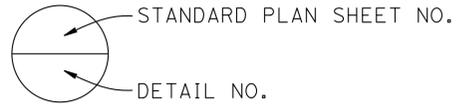
SUPPORT LOCATION	PILE TYPE	NOMINAL RESISTANCE (Kps)		DESIGN TIP Elev (ft)	SPECIFIC TIP Elev (ft)	NOMINAL DRIVING RESISTANCE REQUIRED (Kips)
		COMPRESSION	TENSION			
Abut 1 LEFT WIDEN	HP 14X89	280	0	704(a) 722(d)	704	280
		Abut 1 RIGHT WIDEN	HP 14X89	380	0	675(a) 719(d)
Abut 1 RAMP WIDEN	HP 14X89			320	0	682(a) 718(d)
		Abut 2 LEFT WIDEN	HP 14X89	260	0	706(a) 723(d)
Abut 2 RIGHT WIDEN	HP 14X89			300	0	683(a) 719(d)
		Abut 2 RAMP WIDEN	HP 14X89	320	0	682(a) 719(d)



[Hatching Pattern] STRUCTURAL CONCRETE, BRIDGE (5 ksi @ 28 DAYS)
 [Hatching Pattern] STRUCTURAL CONCRETE, BRIDGE (4 ksi @ 28 DAYS)
 [Hatching Pattern] STRUCTURAL CONCRETE, BRIDGE FOOTING
 [Hatching Pattern] STRUCTURE CONCRETE BRIDGE

CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE



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

NOTES:
 1. Design Tip Elevations are controlled by:
 (a) Compression (d) Lateral Load
 2. The Specified Tip Elevation shall not be raised Above Design Tip Elevations for Lateral

DESIGN	BY	MOHAMMAD MUQTADIR	CHECKED	FEIRUZ ABERRA	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO.	53-2008	KELLOGG DRIVE UC (WIDEN)					
	DETAILS	BY	K. FARAZHI/A. ONG	CHECKED			FEIRUZ ABERRA	53-2008G						
	QUANTITIES	BY	MOHAMMAD MUQTADIR	CHECKED			FEIRUZ ABERRA	POST MILE		42.12				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)						UNIT: 3622	PROJECT NUMBER & PHASE: 0713000007-1	CONTRACT NO.: 07-1193U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0	1	2	3	07/22/14	05/21/14	06/05/14	3	31