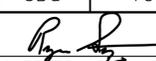
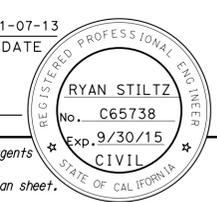
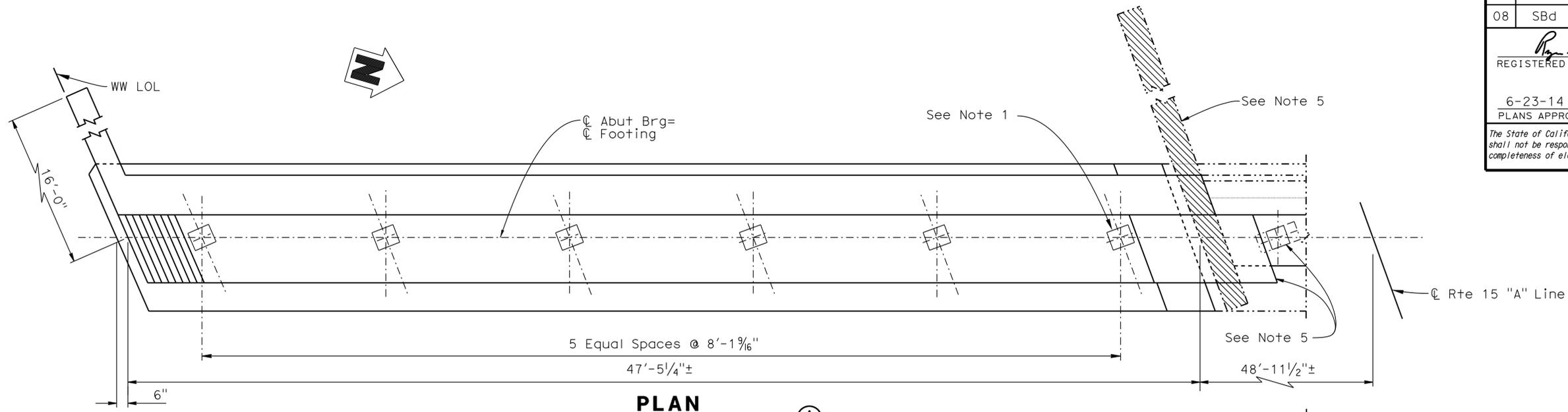
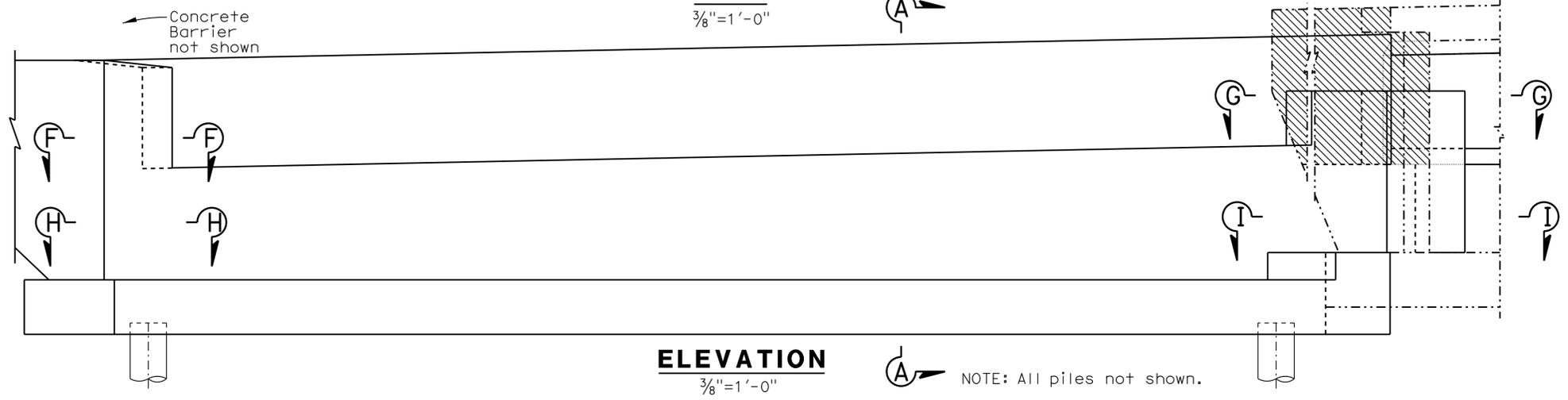


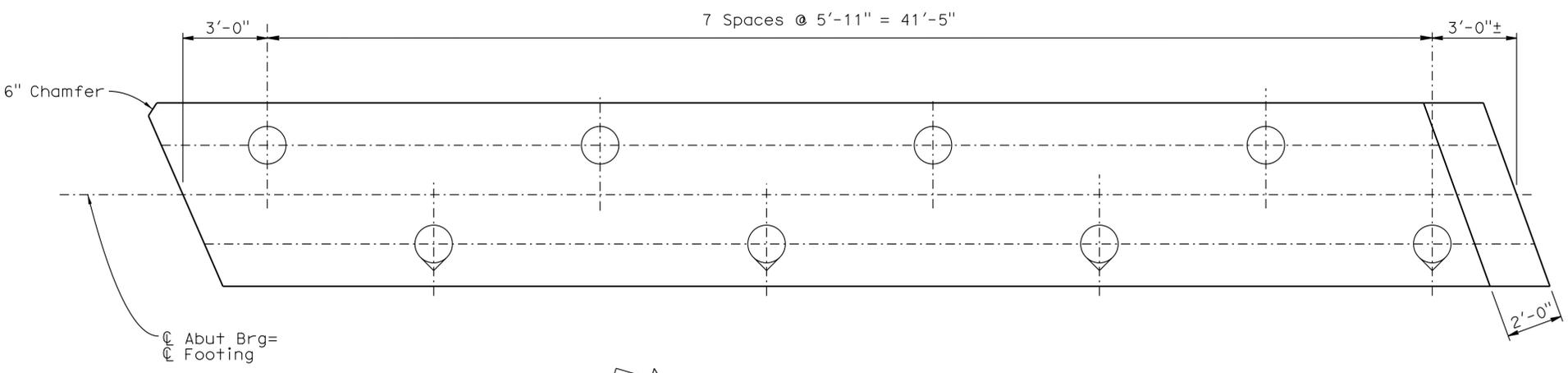
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	701	824
 REGISTERED CIVIL ENGINEER DATE 11-07-13					
6-23-14 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					



PLAN
3/8" = 1'-0"



ELEVATION
3/8" = 1'-0"



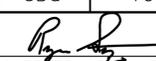
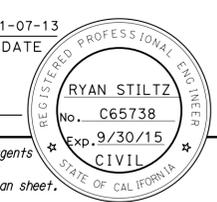
PILE LAYOUT
3/8" = 1'-0"

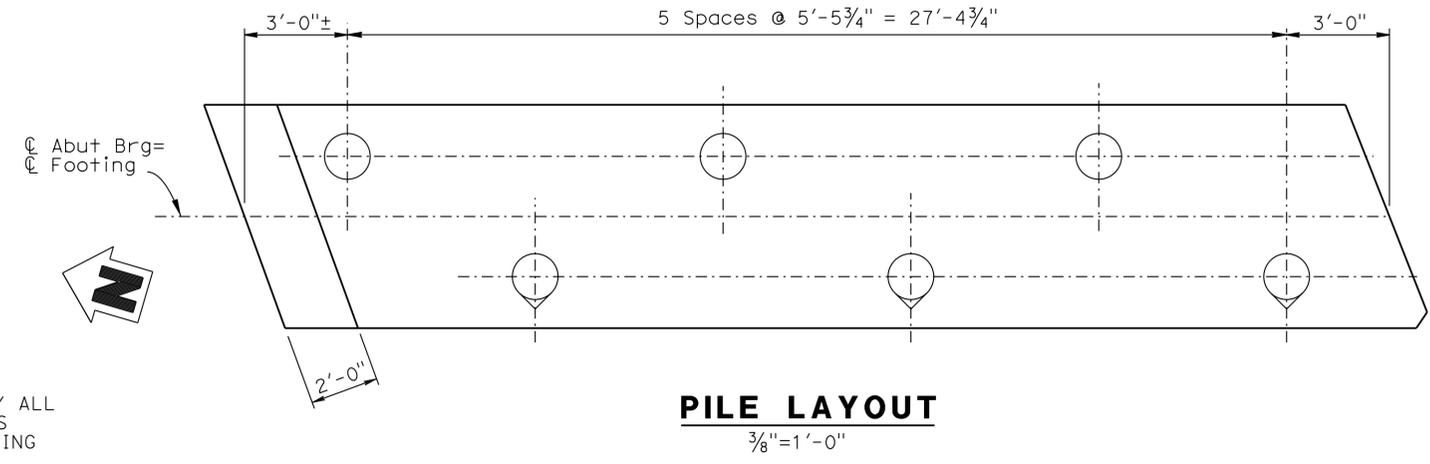
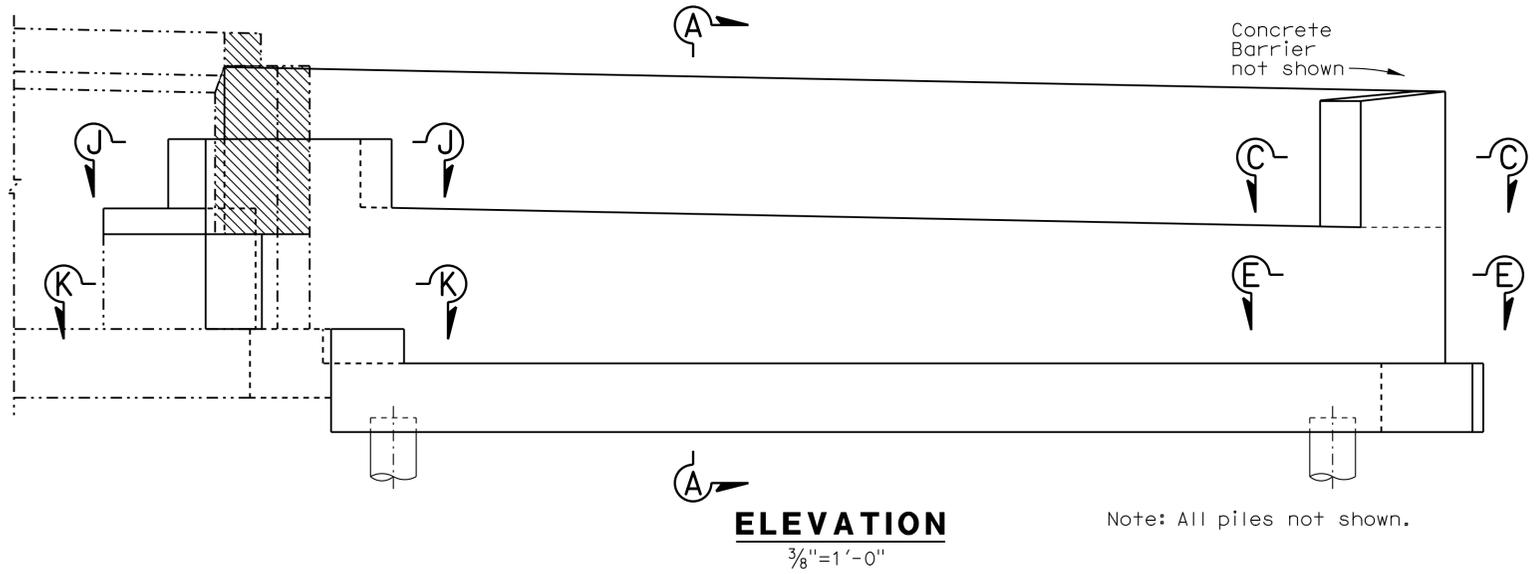
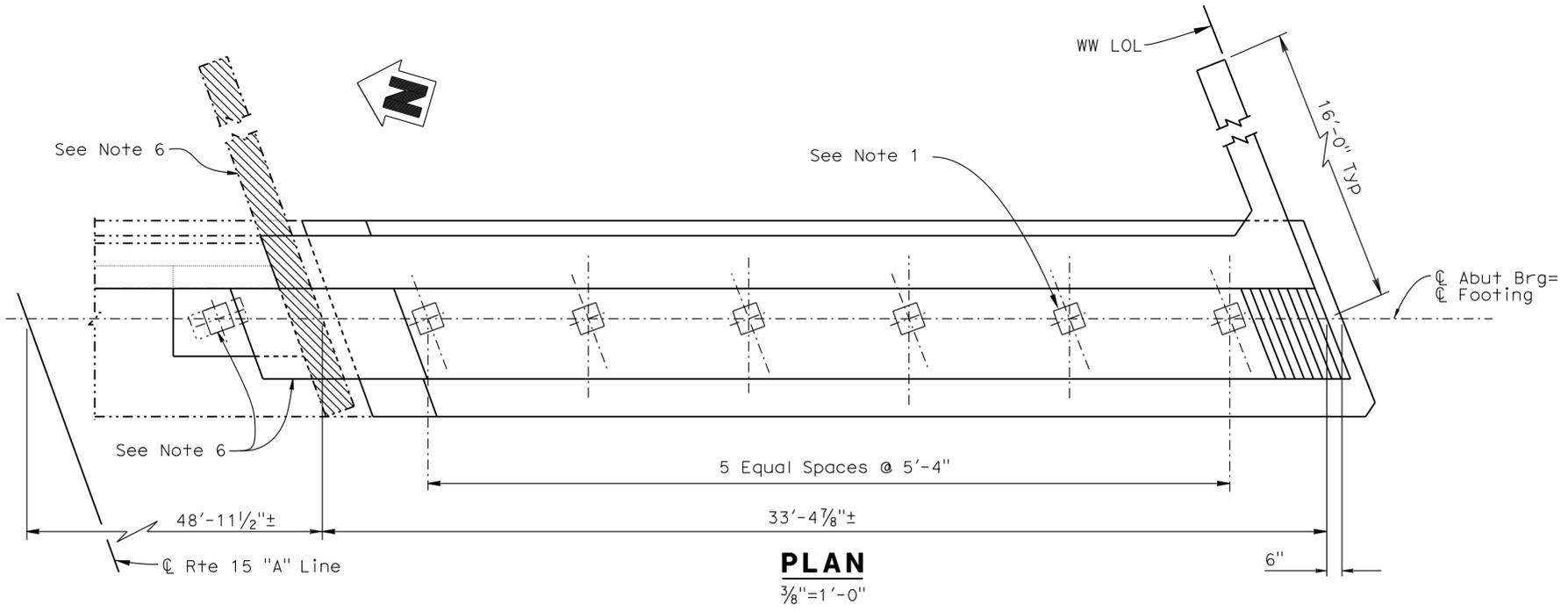
- LEGEND:**
- Indicates new construction
 - - - Indicates existing structure
 - ▨ Indicates bridge removal (portion)
 - Indicates Vertical Steel Pile
 - ◊ Indicates Battered Steel Pile

- NOTES:**
1. Bearing pads shall be 10" x 12" x 2" (elastomer only) steel reinforced elastomeric bearings pads Tot 6, for details see "ABUTMENT DETAILS NO. 1" sheet.
 2. For "SECTION F-F", "SECTION G-G", "SECTION H-H", and "SECTION I-I", see "ABUTMENT DETAILS NO. 2" sheet.
 3. For details on Rock Slope Protection, see "ROADWAY PLANS".
 4. For "SECTION A-A", see "ABUTMENT 1 LEFT LAYOUT" sheet.
 5. For limit of existing wingwall removal, and other abutment reconstruction details, see "ABUTMENT RECONSTRUCTION DETAILS NO. 1, NO. 2, NO. 3, and NO. 4" sheets.

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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY R. Stiltz	CHECKED L. Wu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	54-0483	MOJAVE RIVER BRIDGE (WIDEN)	
	DETAILS	BY G. Hallstrom	CHECKED L. Wu			BRIDGE NO.		ABUTMENT 1 RIGHT LAYOUT
	QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen			43.93		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 08 EA 3555V1	POST MILE DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 6 OF 44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	702	824
 REGISTERED CIVIL ENGINEER DATE 11-07-13					
6-23-14 PLANS APPROVAL DATE					
<i>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.</i>					



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

- LEGEND:
- Indicates new construction
 - Indicates existing structure
 - ▨ Indicates bridge removal (portion)
 - Indicates Vertical Steel Pile
 - ◊ Indicates Battered Steel Pile

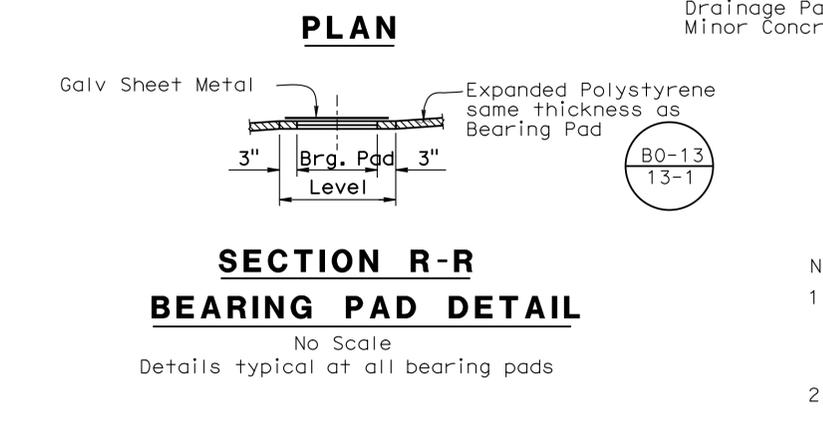
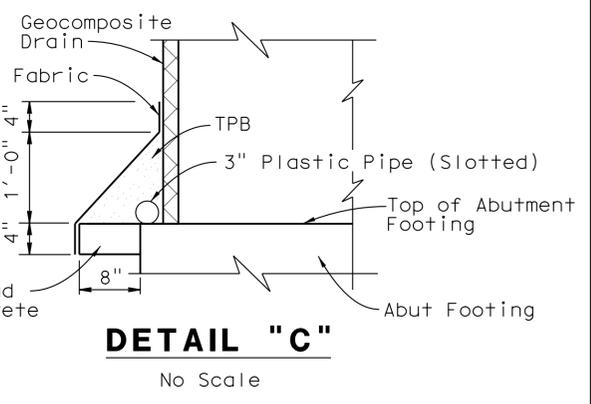
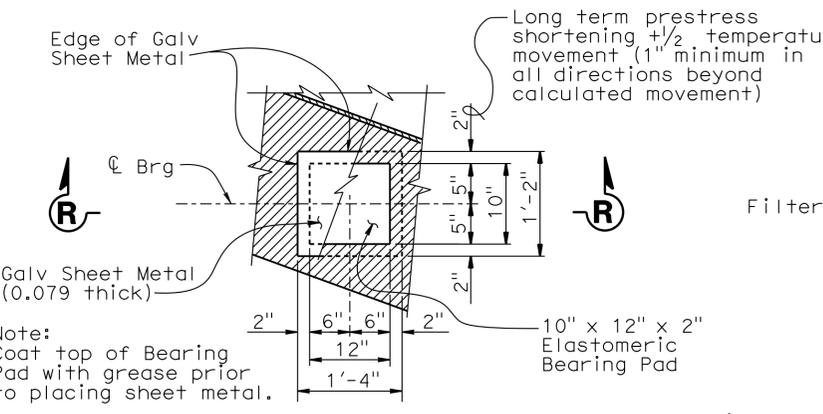
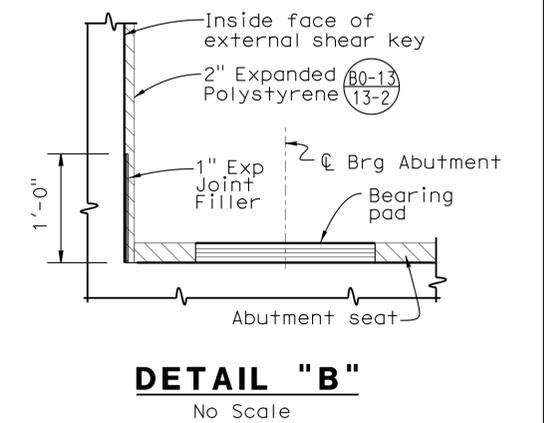
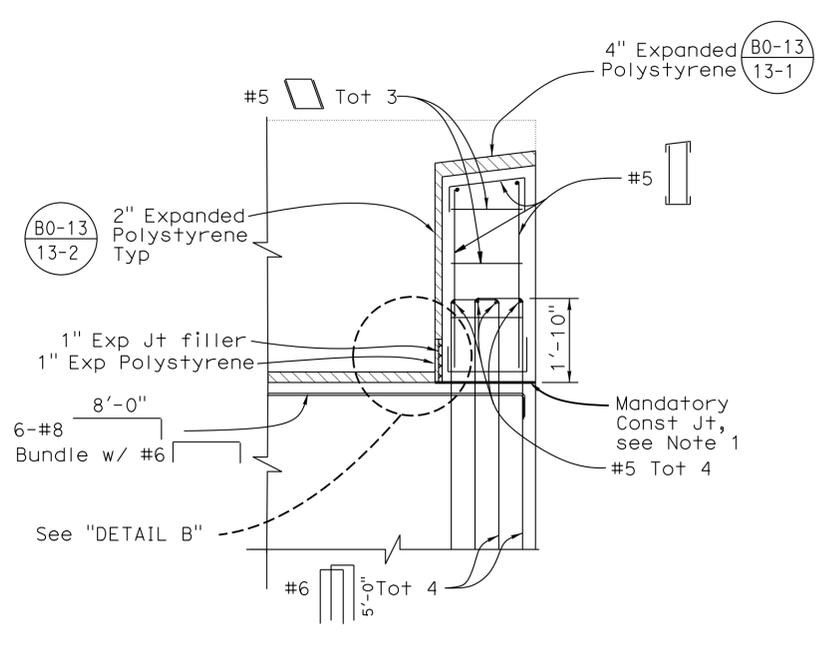
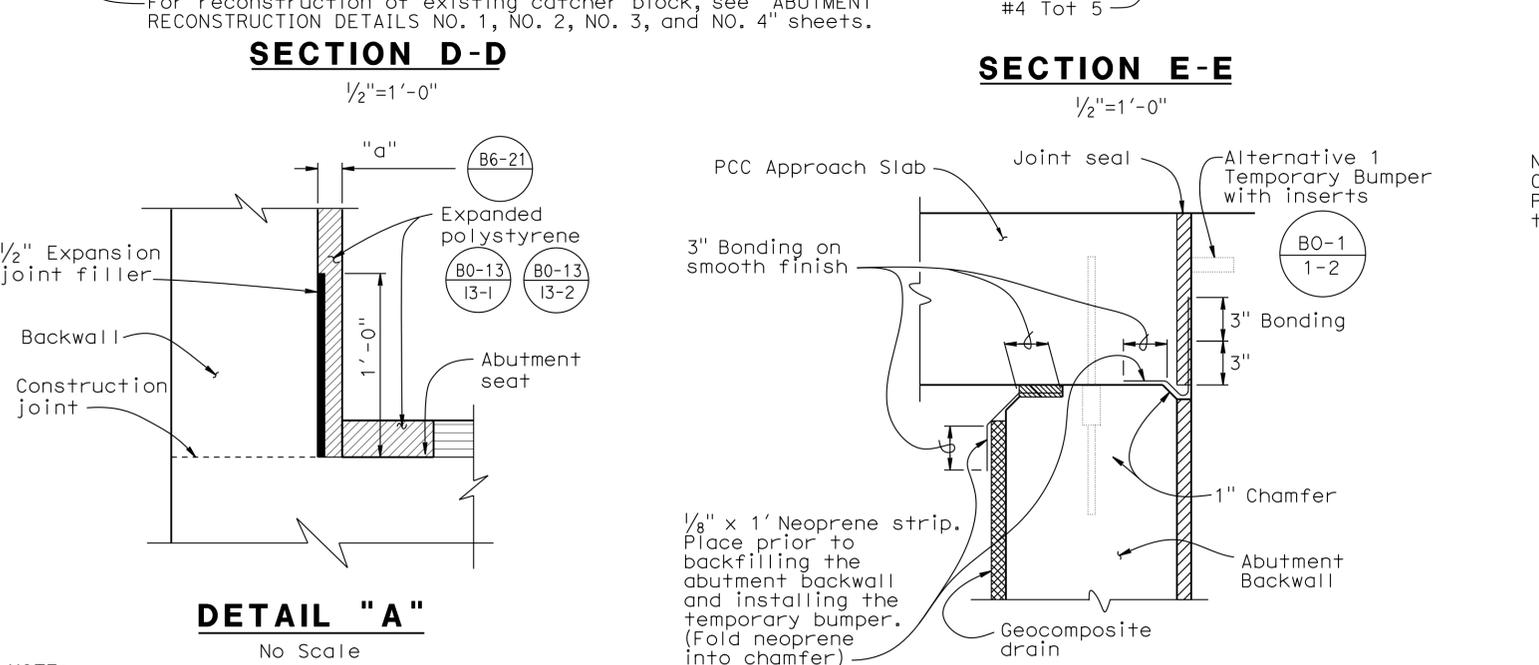
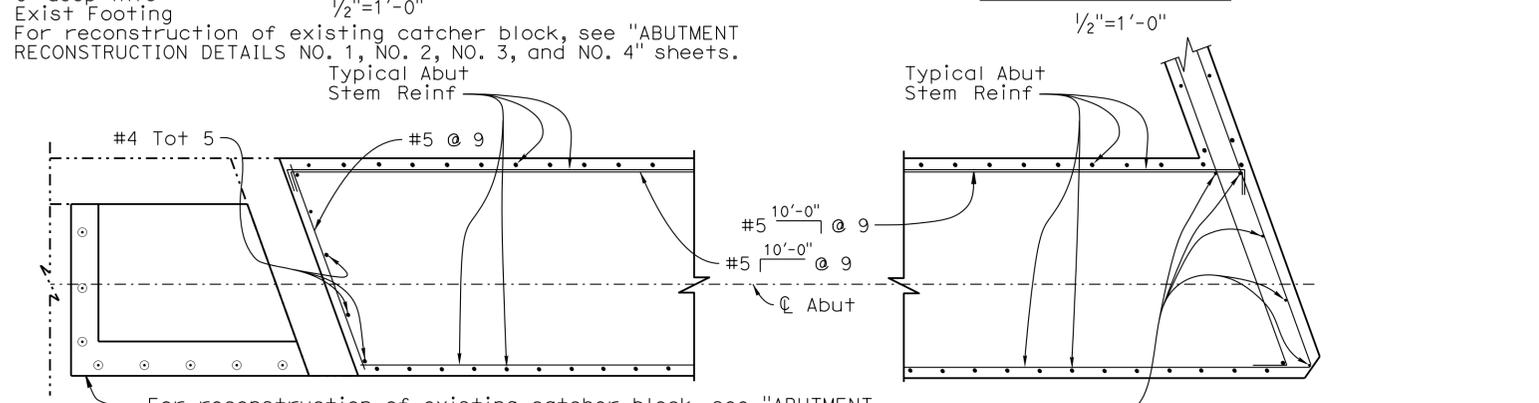
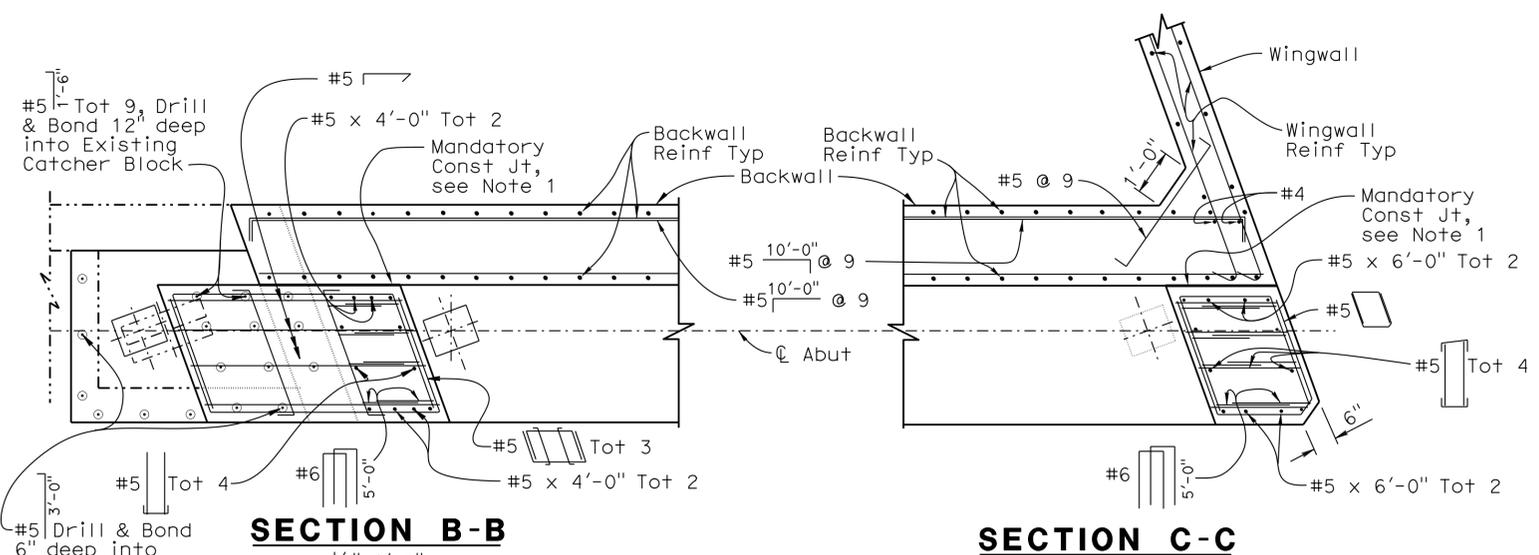
- NOTES:
1. Bearing pads shall be 10" x 12" x 2" (elastomer only) steel reinforced elastomeric bearings pads Tot 6, for details see "ABUTMENT DETAILS NO. 1" sheet.
 2. For "SECTION C-C" and "SECTION E-E", see "ABUTMENT DETAILS NO. 1" sheet.
 3. For "SECTION J-J" and "SECTION K-K", see "ABUTMENT DETAILS NO. 2" sheet.
 4. For details on Rock Slope Protection, see "ROADWAY PLANS".
 5. For "SECTION A-A" see "ABUTMENT 1 LEFT LAYOUT" sheet.
 6. For limit of existing wingwall removal, and other abutment reconstruction details, see "ABUTMENT RECONSTRUCTION DETAILS NO. 1, NO. 2, NO. 3, and NO. 4" sheets

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY R. Stiltz	CHECKED L. Wu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0483	MOJAVE RIVER BRIDGE (WIDEN) ABUTMENT 9 RIGHT LAYOUT															
	DETAILS	BY G. Hallstrom	CHECKED L. Wu			POST MILE	43.93																
	QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen																				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th colspan="7">REVISION DATES</th> </tr> <tr> <td>06-02-08</td> <td>07-26-08</td> <td>9-20-12</td> <td>1-28-13</td> <td>5-07-13</td> <td>5-23-13</td> <td>7-11-13</td> </tr> </table>	REVISION DATES							06-02-08	07-26-08	9-20-12	1-28-13	5-07-13	5-23-13	7-11-13	SHEET 7 OF 44
REVISION DATES																							
06-02-08	07-26-08	9-20-12	1-28-13	5-07-13	5-23-13	7-11-13																	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	703	824

REGISTERED CIVIL ENGINEER	DATE
11-07-13	
6-23-14	PLANS APPROVAL DATE
RYAN STILTZ	No. C65738
Exp. 9/30/15	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.



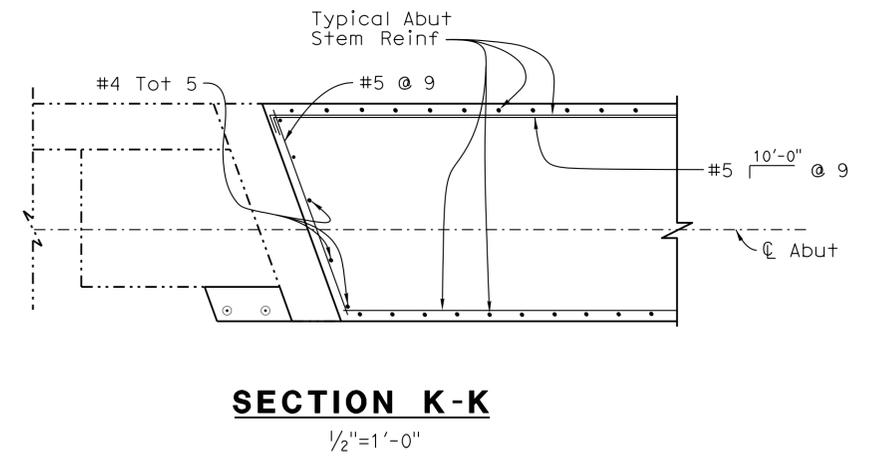
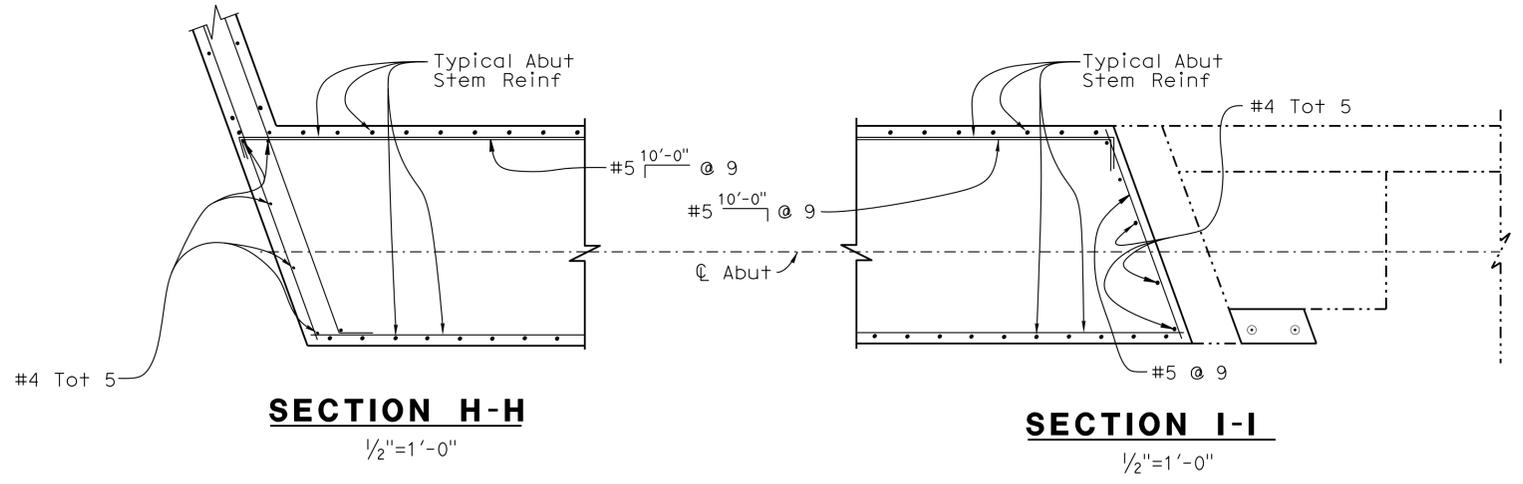
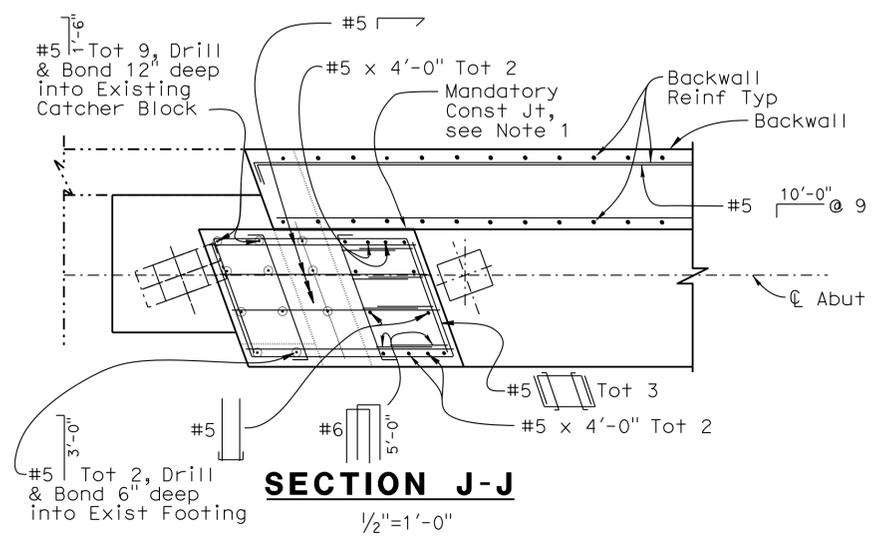
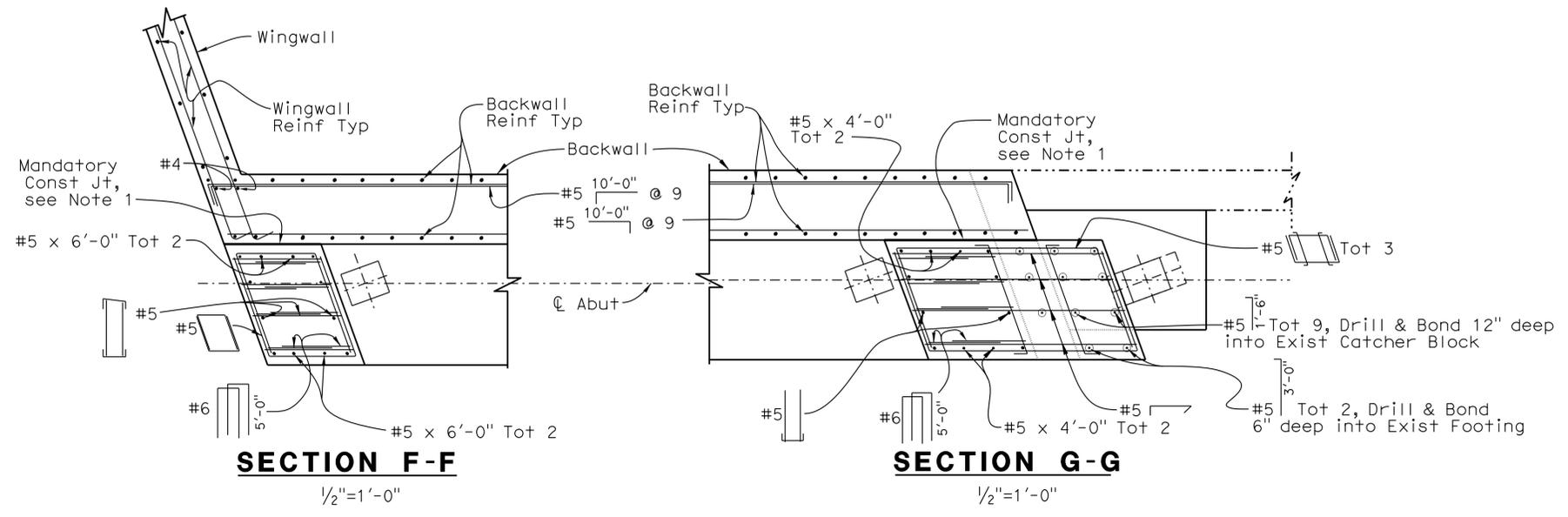
- NOTES:
- Smooth Construction Joint and apply bond breaker before casting shear key. No reinforcement to cross Const Jt except as shown.
 - For location of "SECTION B-B", "SECTION C-C", "SECTION D-D", "SECTION E-E", "DETAIL A", and "DETAIL C", see "ABUTMENT 1 LEFT LAYOUT" sheet.
 - Abut 1 Left shown, Abut 9 Left similar.

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

DESIGN	BY R. Stiltz	CHECKED L. Wu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	MOJAVE RIVER BRIDGE (WIDEN) ABUTMENT DETAILS NO. 1
DETAILS	BY G. Hallstrom	CHECKED L. Wu			54-0483	
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen			POST MILE 43.93	

CU 08	EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 8 OF 44
			07-08-08 10-08-12 12-08-12 1-28-13 5-15-13 5-23-13 7-11-13 10-31-13	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	704	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER RYAN STILTZ No. C65738 Exp. 9/30/15 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.					



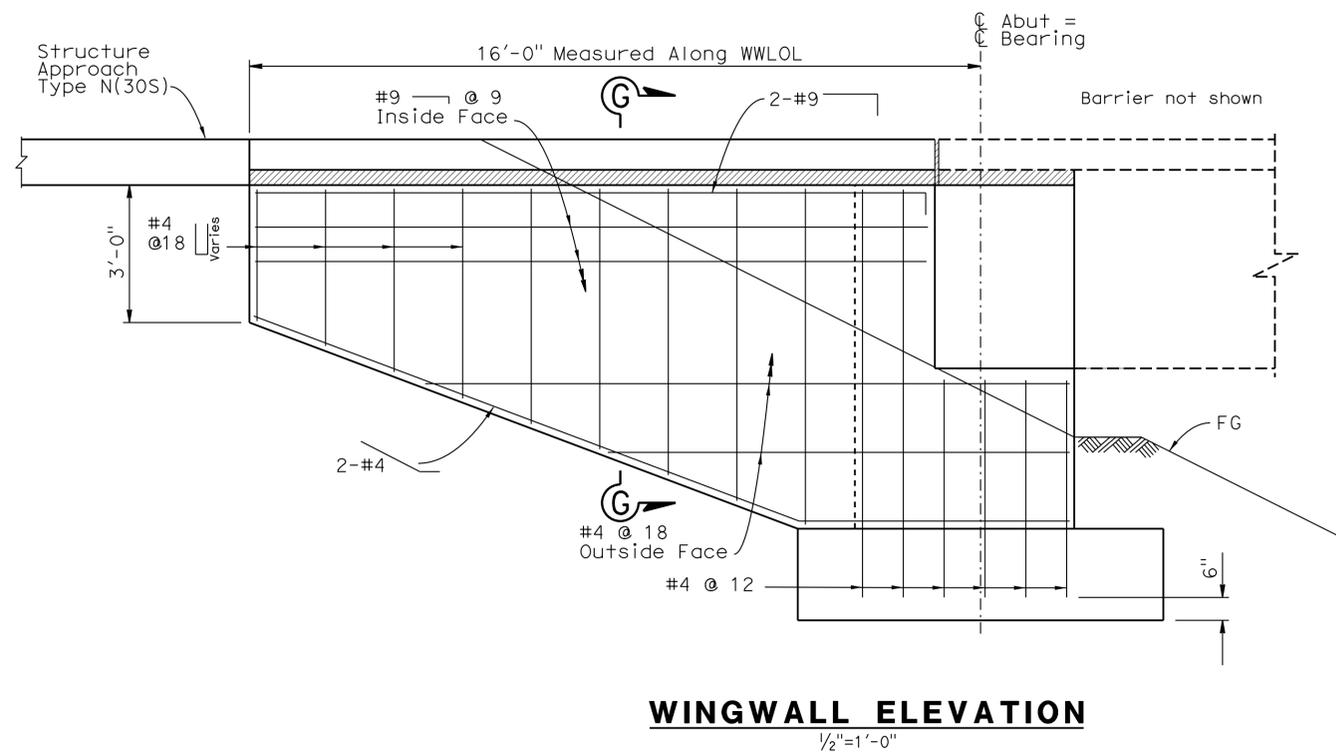
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

- NOTES:**
- Smooth Construction Joint and apply bond breaker before casting shear key. No reinforcement to cross Const Jt except as shown.
 - For location of "SECTION F-F", "SECTION G-G", "SECTION H-H", and "SECTION I-I", see "ABUTMENT 1 RIGHT LAYOUT" sheet.
 - For location of "SECTION J-J" and "SECTION K-K", see "ABUTMENT 9 RIGHT LAYOUT" sheet.

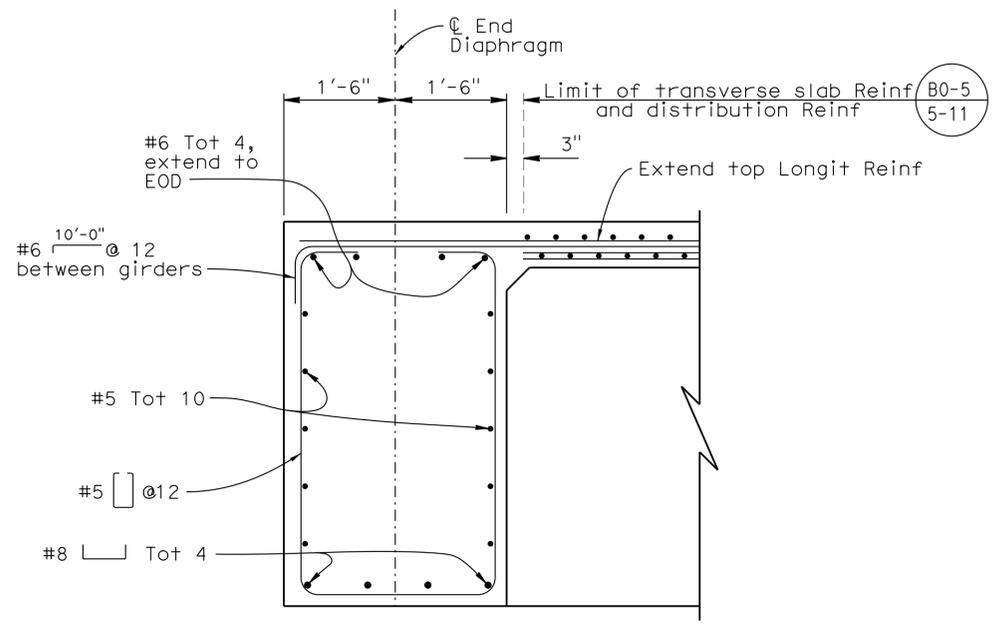
DESIGN	BY R. Stiltz	CHECKED L. Wu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	MOJAVE RIVER BRIDGE (WIDEN) ABUTMENT DETAILS NO. 2
DETAILS	BY G. Hallstrom	CHECKED L. Wu			54-0483	
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen			POST MILE 43.93	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES
				0 1 2 3	REVISION DATES 10-08-12 1-28-13 5-04-13 7-10-13	SHEET 9 OF 44

USERNAME => s121614 DATE PLOTTED => 30-JUN-2014 TIME PLOTTED => 11:23

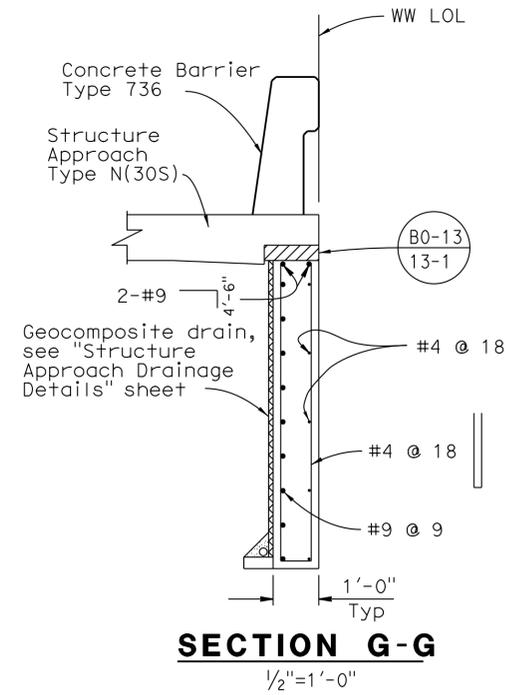
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	705	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



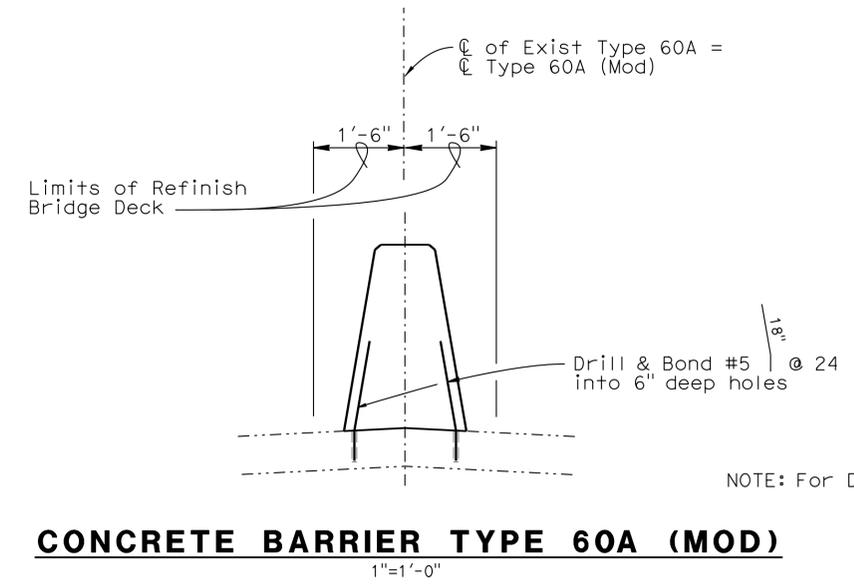
WINGWALL ELEVATION
1/2"=1'-0"



END DIAPHRAGM
No Scale



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



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

NOTE: For Details not shown, see A76A

DESIGN	BY R. Stiltz	CHECKED L. Wu
DETAILS	BY G. Hallstrom	CHECKED L. Wu
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

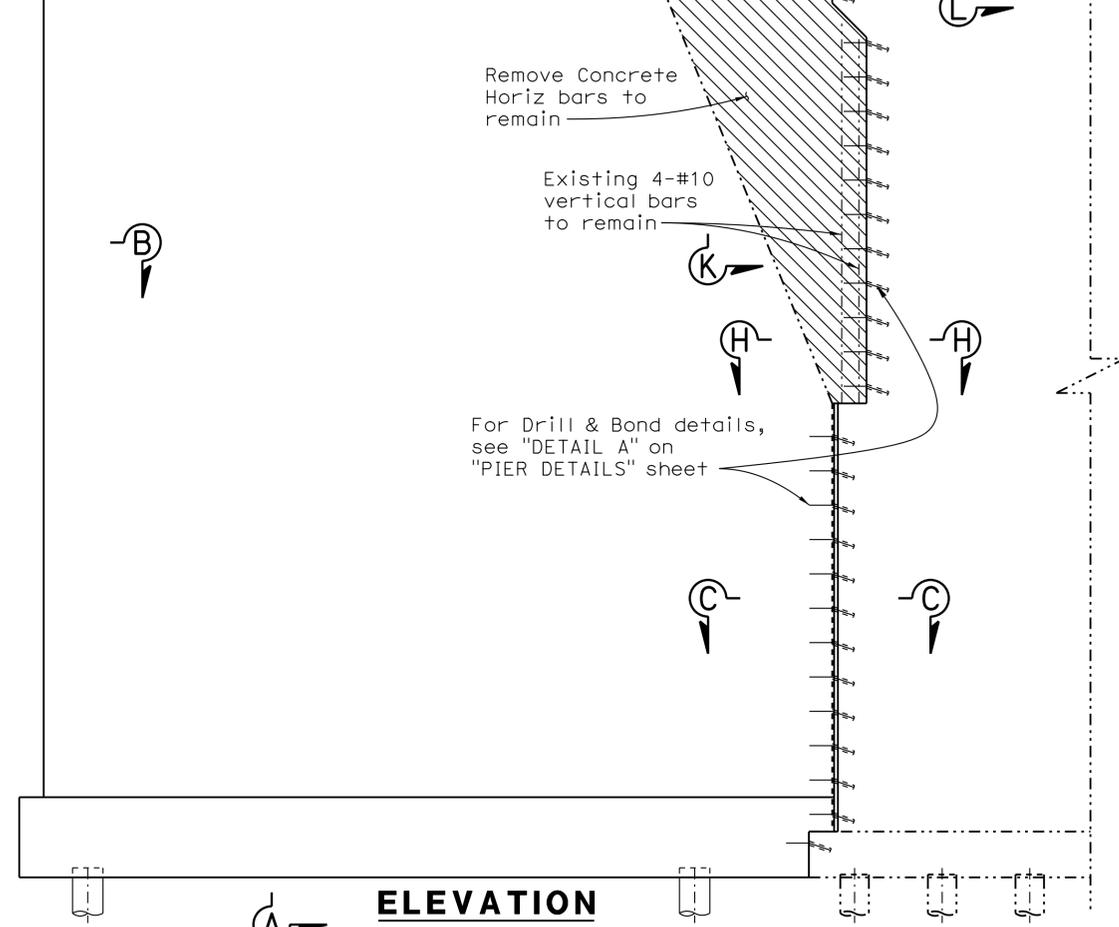
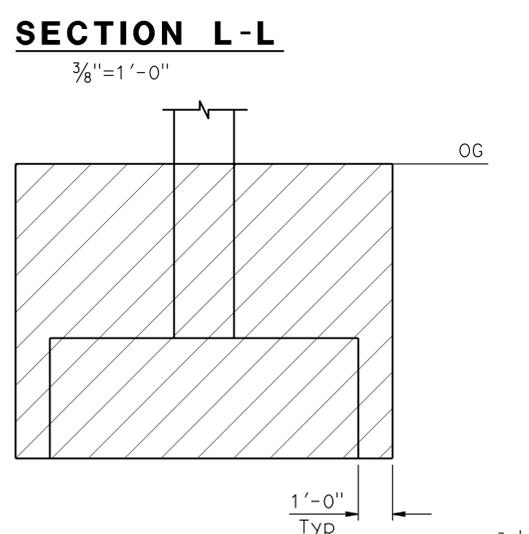
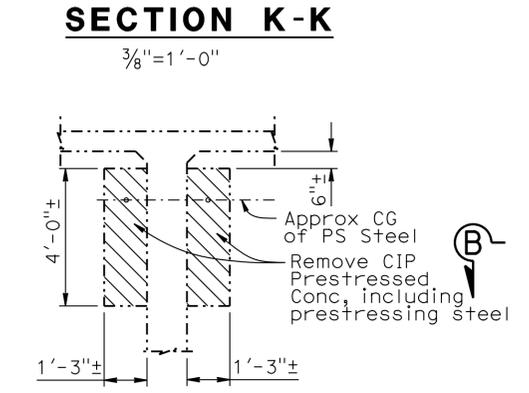
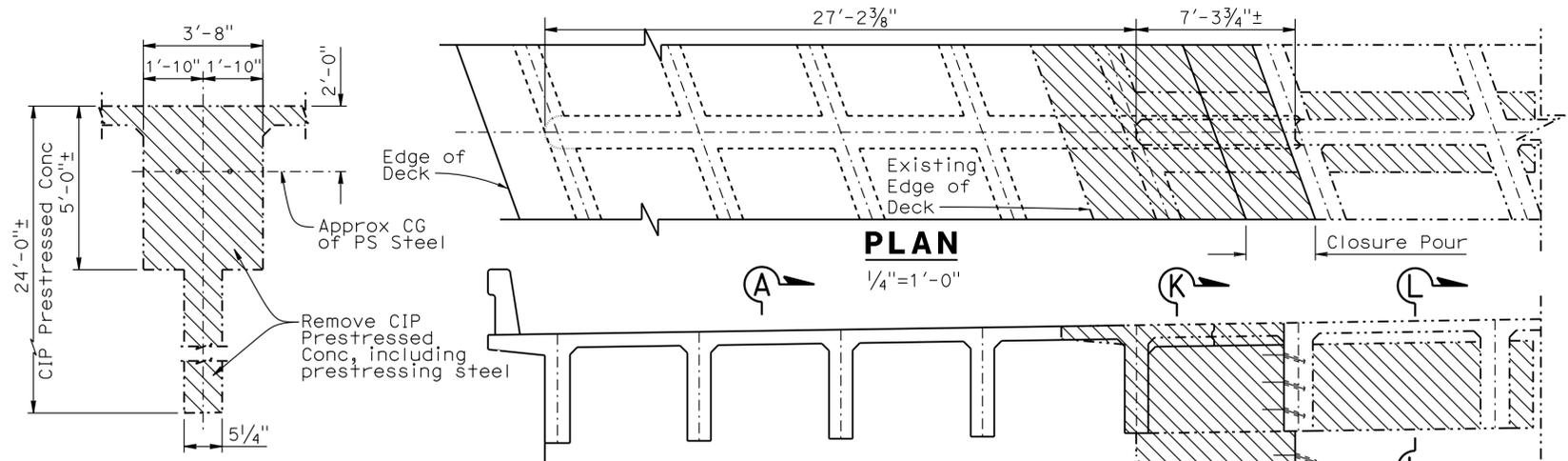
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	54-0483
POST MILE	43.93

MOJAVE RIVER BRIDGE (WIDEN)
ABUTMENT DETAILS NO. 3

USERNAME => s121614 DATE PLOTTED => 30-JUN-2014 TIME PLOTTED => 11:23

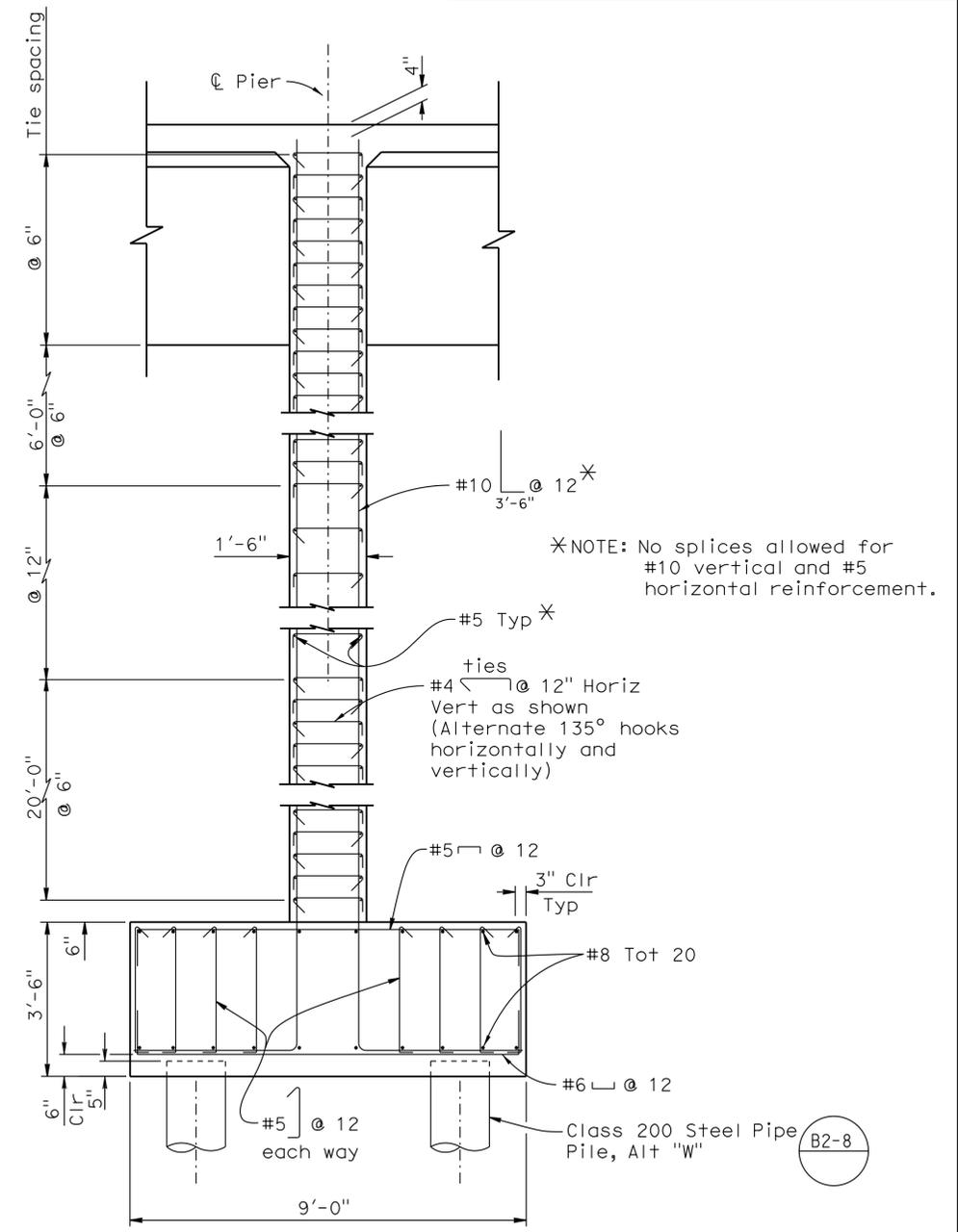
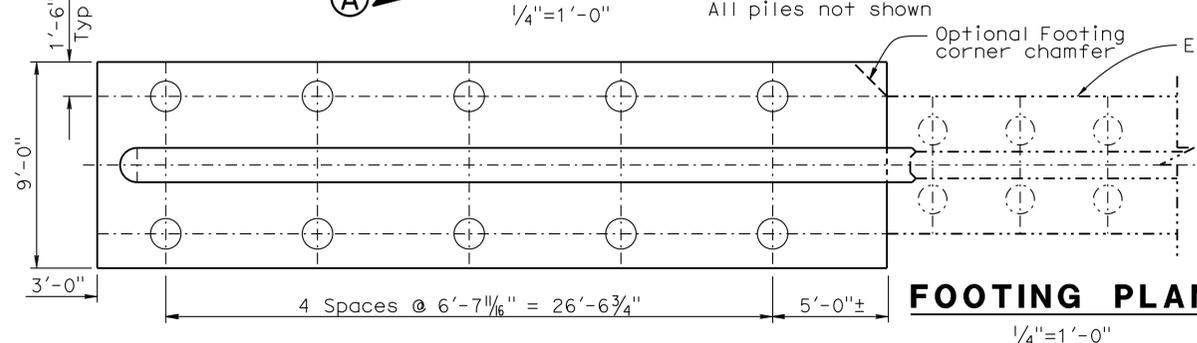
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SbD	15	42.5/46.0	706	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



LIMITS AND PAYMENT FOR TYPE D EXCAVATION
NO SCALE (Typical all Piers)

Structure Excavation, Type D

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



LEGEND:

- Indicates new construction
- - - Indicates existing structure
- ▨ Indicates bridge removal (portion)
- Indicates Steel Pipe Pile

NOTE:
For "SECTION B-B", "SECTION C-C", and "SECTION H-H" see "PIER DETAILS" sheet.

DESIGN	BY R. Stiltz	CHECKED L. Wu
DETAILS	BY G. Hallstrom	CHECKED L. Wu
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	54-0483
POST MILE	43.93

MOJAVE RIVER BRIDGE (WIDEN)
PIER LEFT LAYOUT

USERNAME => s121614 DATE PLOTTED => 30-JUN-2014 TIME PLOTTED => 11:23

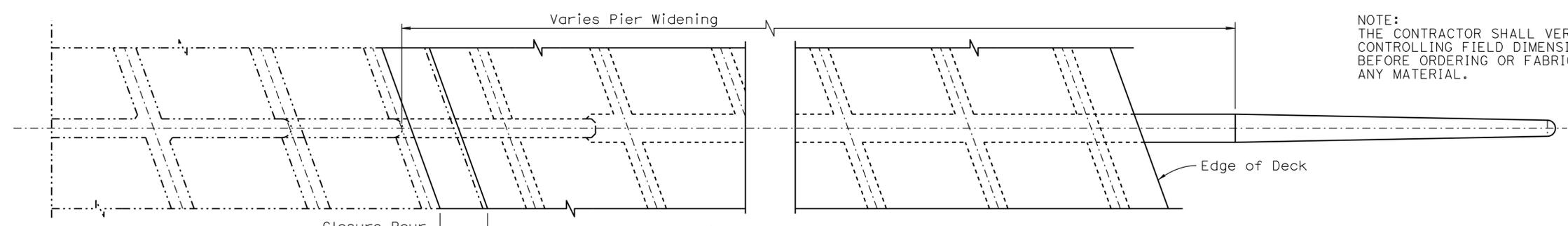
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	707	824

REGISTERED CIVIL ENGINEER DATE 11-07-13
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 CIVIL
 STATE OF CALIFORNIA

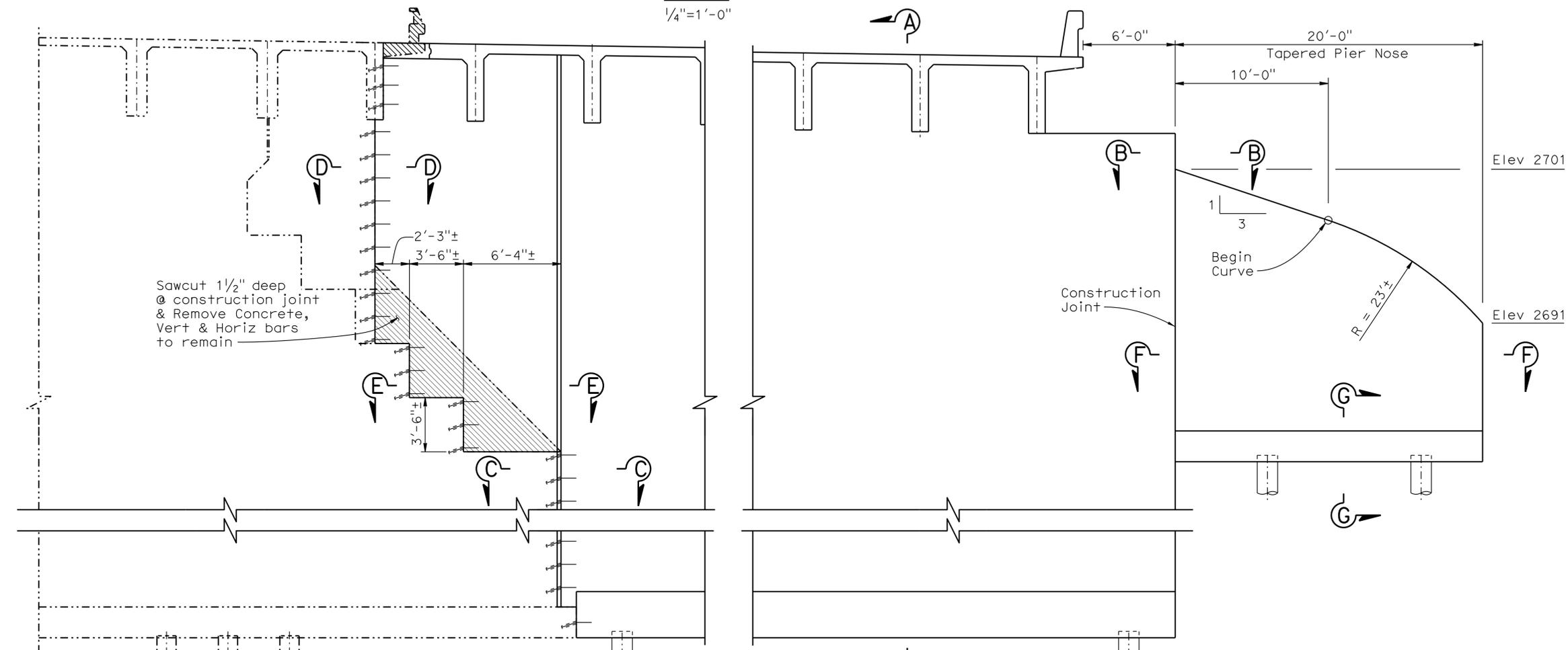
6-23-14
 PLANS APPROVAL DATE

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

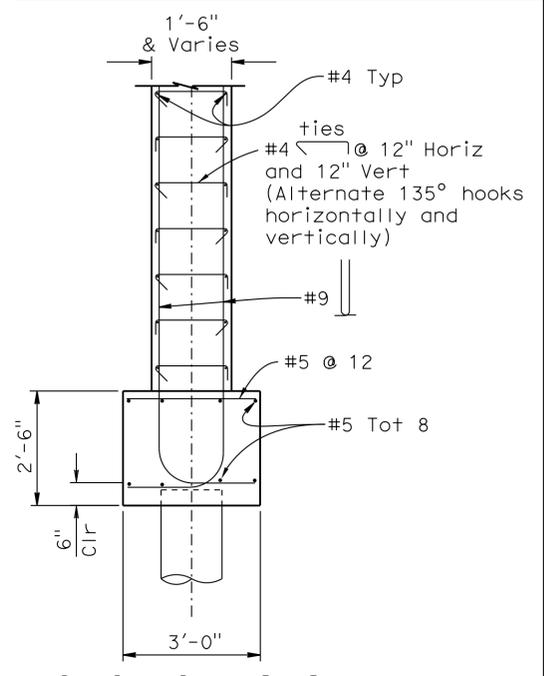
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



PLAN
 1/4"=1'-0"



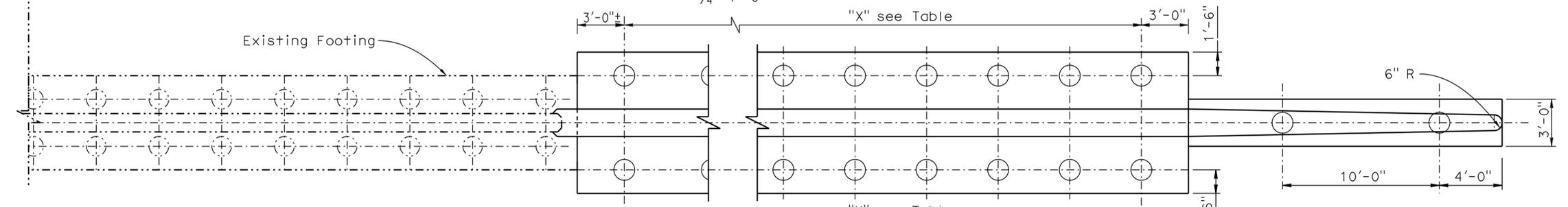
ELEVATION
 1/4"=1'-0"



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

PIER	NUMBER OF SPACES "N"	LENGTH "X"
2 Rt	8	35'-7 3/8"
3 Rt	8	33'-6 5/8"
4 Rt	7	31'-11 3/8"
5 Rt	7	30'-4"
6 Rt	7	28'-6"
7 Rt	7	26'-10 3/4"
8 Rt	7	25'-3 5/8"

- LEGEND:
- Indicates new construction
 - - - Indicates existing structure
 - ▨ Indicates bridge removal (portion)
 - Indicates Steel Pipe Pile
- NOTES:
- For "SECTION A-A" see "PIER LEFT LAYOUT" sheet.
 - For "SECTION B-B", "SECTION C-C", "SECTION D-D", "SECTION E-E", and "SECTION F-F", see "PIER DETAILS" sheet.



FOOTING PLAN
 1/4"=1'-0"

DESIGN BY R. Stiltz DETAILS BY G. Hallstrom QUANTITIES BY D. Azzam	CHECKED L. Wu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0483	MOJAVE RIVER BRIDGE (WIDEN) PIER RIGHT LAYOUT
	CHECKED L. Wu			POST MILE 43.93	
	CHECKED A. McPhee/F. Chen				

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

CU 08 EA 3555V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

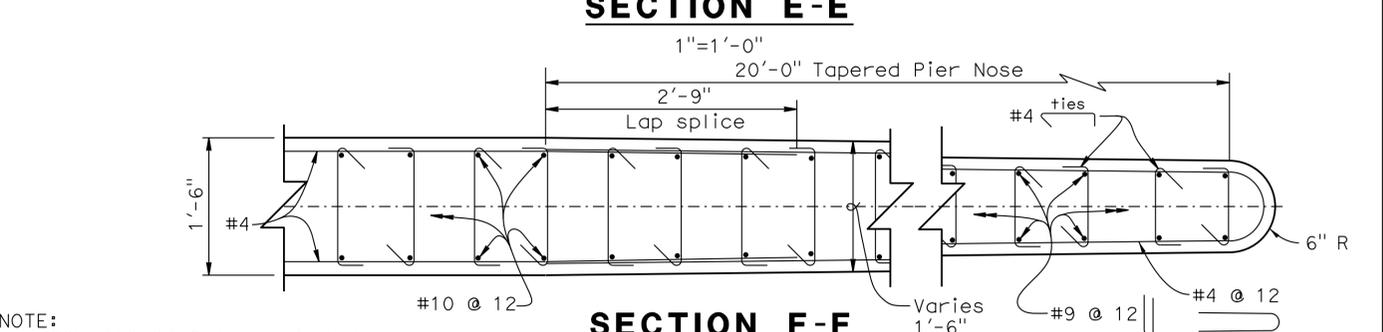
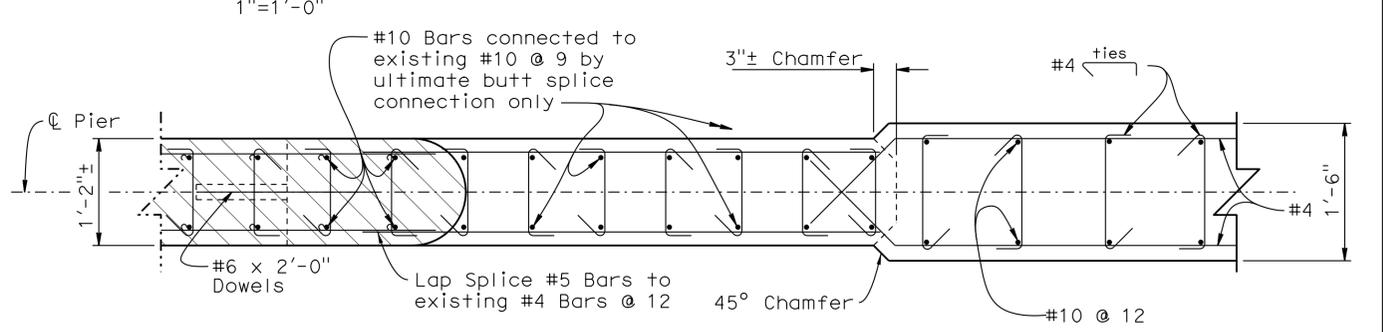
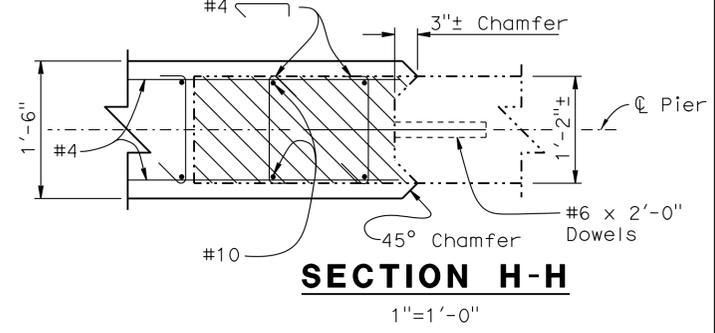
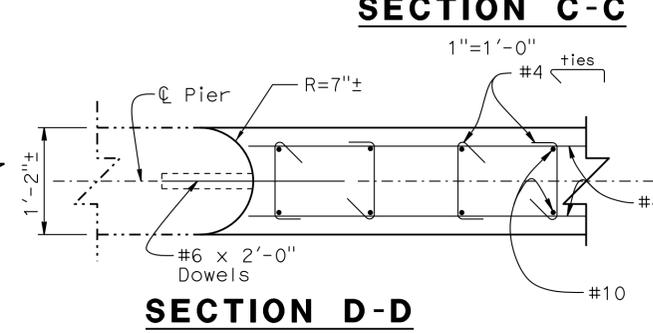
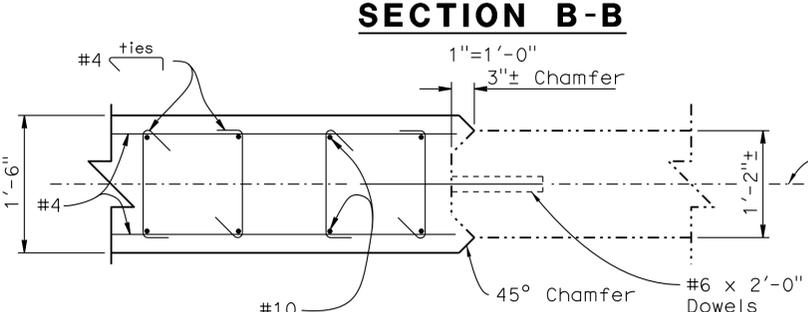
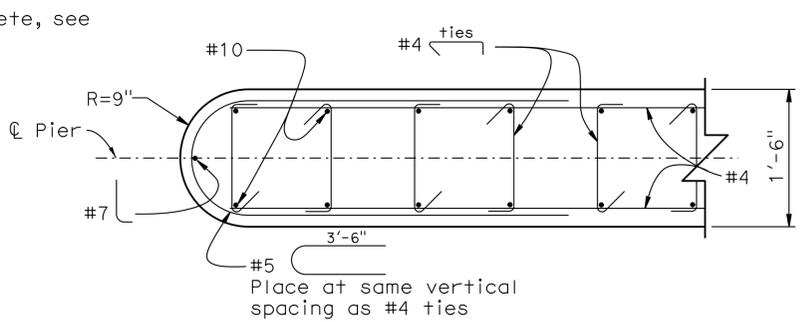
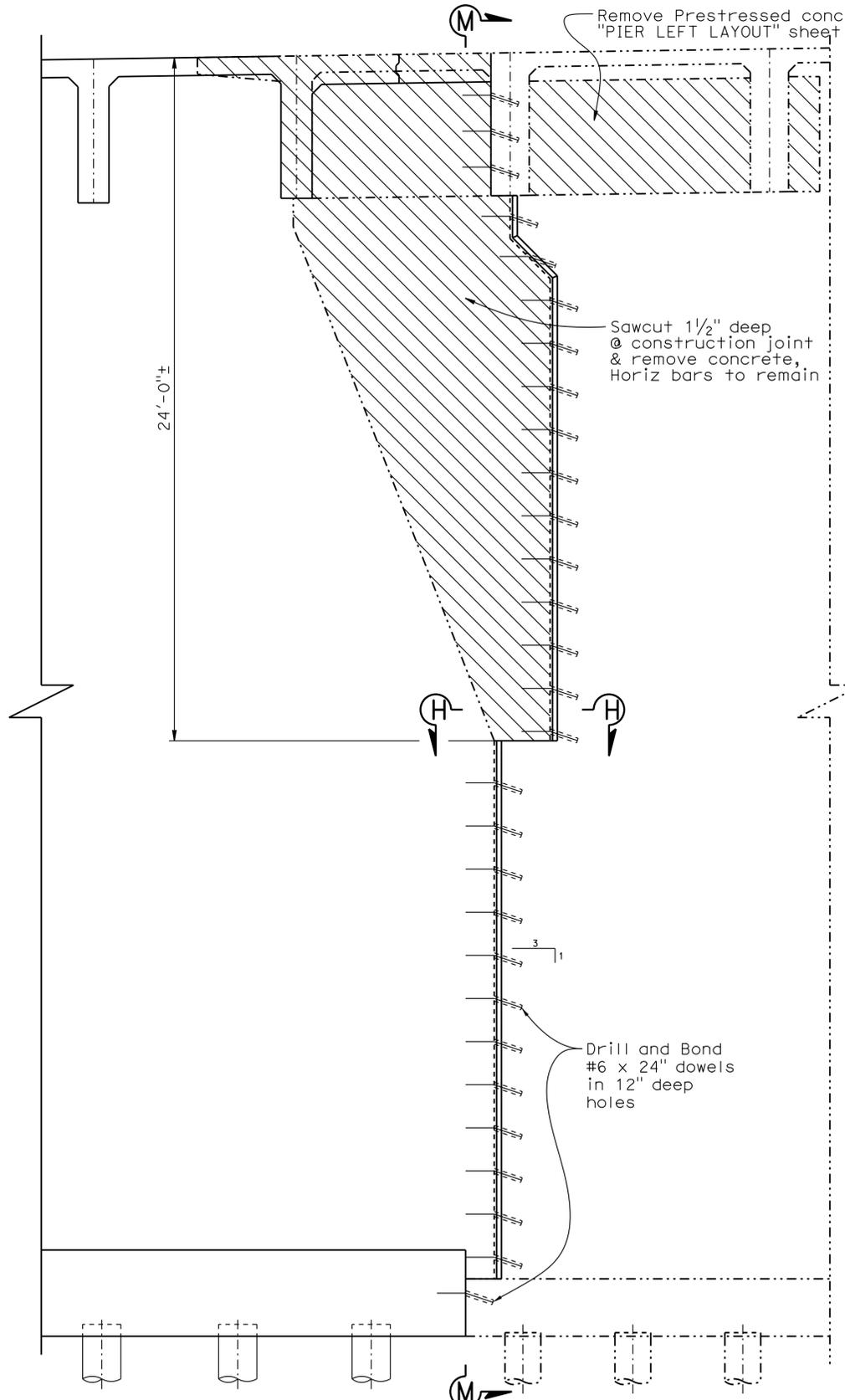
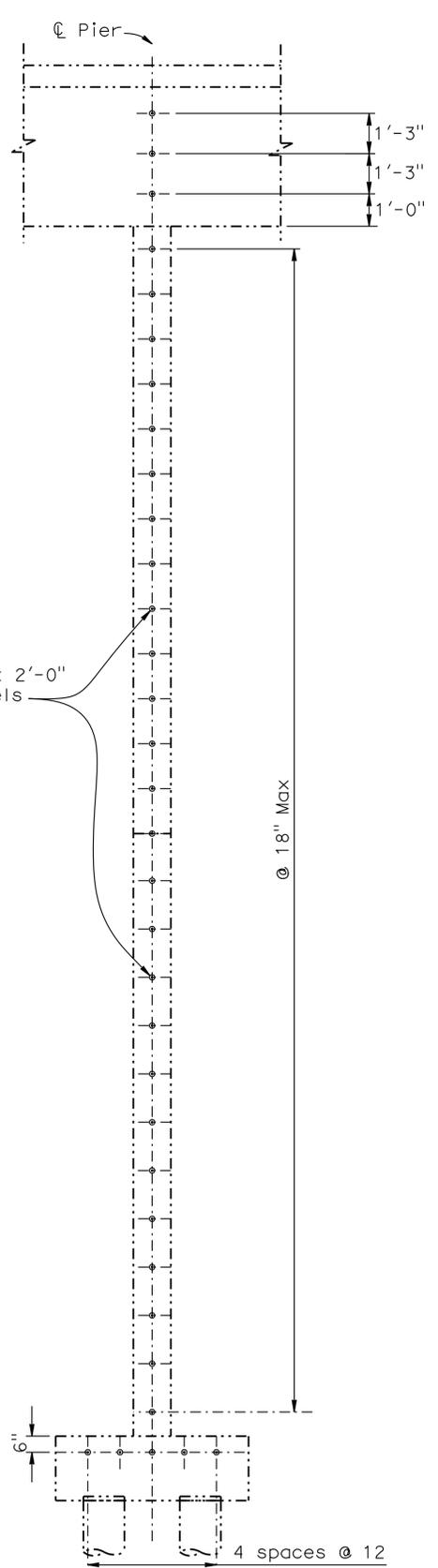
REVISION DATES	SHEET	OF
06-27-08 11-09-09 8-27-12 12-06-12 5-08-13 7-11-13	12	44

FILE => 540483ip_right1o12.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	708	824

11-07-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 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.



LEGEND:
 — Indicates new construction
 - - - Indicates existing structure
 ▨ Indicates bridge removal (portion)

NOTE:
 For locations of "SECTION B-B", "SECTION C-C", "SECTION D-D", "SECTION E-E", and "SECTION F-F", see "PIER LEFT LAYOUT" and "PIER RIGHT LAYOUT" sheets.

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

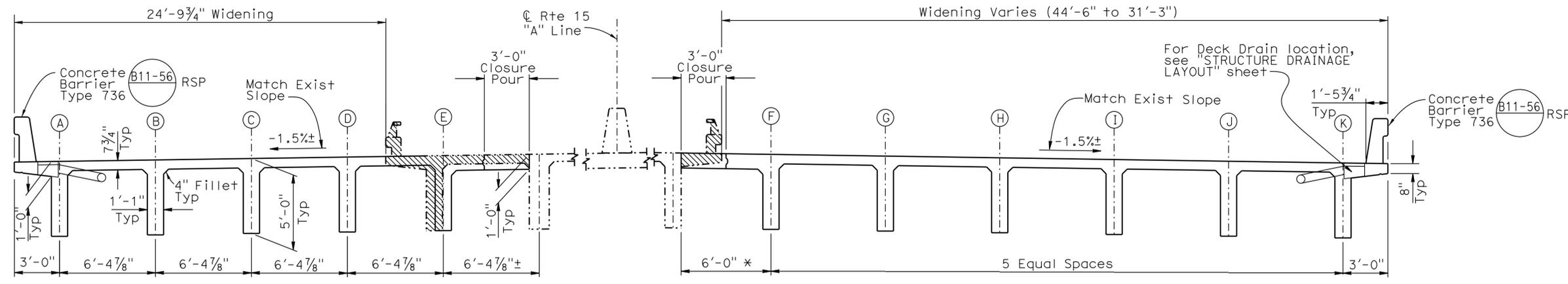
DESIGN	BY R. Stiltz	CHECKED L. Wu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	MOJAVE RIVER BRIDGE (WIDEN) PIER DETAILS
DETAILS	BY G. Hallstrom	CHECKED L. Wu			54-0483	
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen			POST MILE 43.93	

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

FILE => 540483ipd+13.dgn

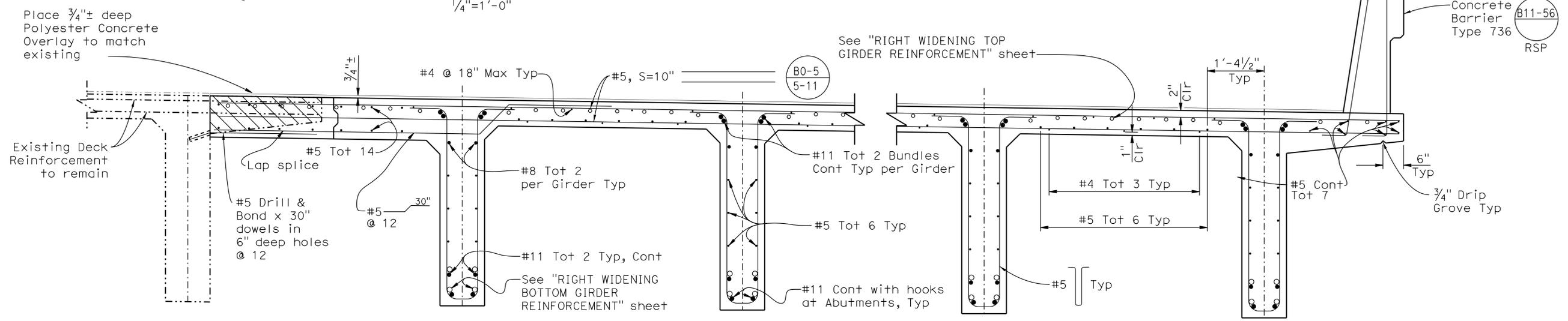
CU 08	EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	04-28-08 11-05-09 8-28-12 12-05-12 5-08-13 7-11-13	SHEET 13	OF 44
-------	-----------	---	--	----------	-------

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	709	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
<i>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.</i>					

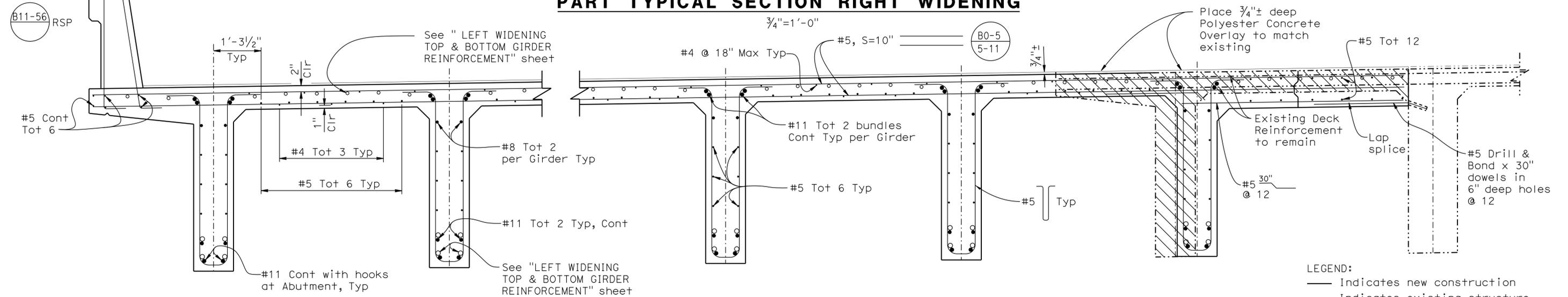


TYPICAL SECTION

* Measured normal to existing Girder



PART TYPICAL SECTION RIGHT WIDENING



PART TYPICAL SECTION LEFT WIDENING

LEGEND:
 — Indicates new construction
 - - - Indicates existing structure
 ▨ Indicates bridge removal (portion)

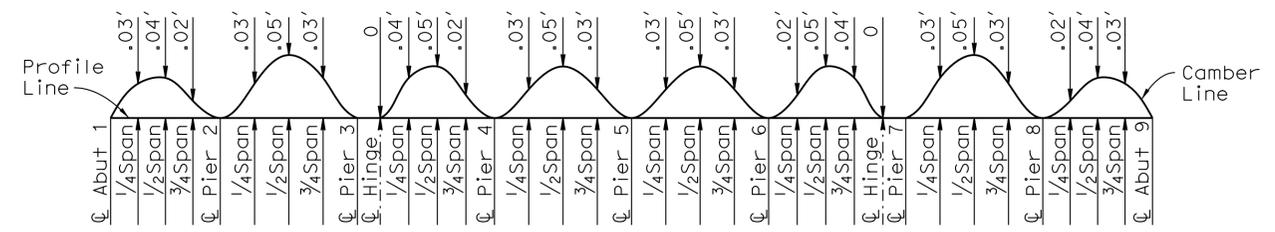
DESIGN	BY R. Stiltz	CHECKED L. Wu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0483	MOJAVE RIVER BRIDGE (WIDEN) TYPICAL SECTION
DETAILS	BY G. Hallstrom	CHECKED L. Wu			POST MILE	43.93	
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen					
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 04-23-08, 5-15-08, 9-04-12, 2-21-13, 5-08-13, 5-23-13, 7-11-13, 10-31-13		SHEET 14 OF 44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	710	824
			11-07-13	REGISTERED PROFESSIONAL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
<i>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.</i>					

FALSEWORK RELEASE

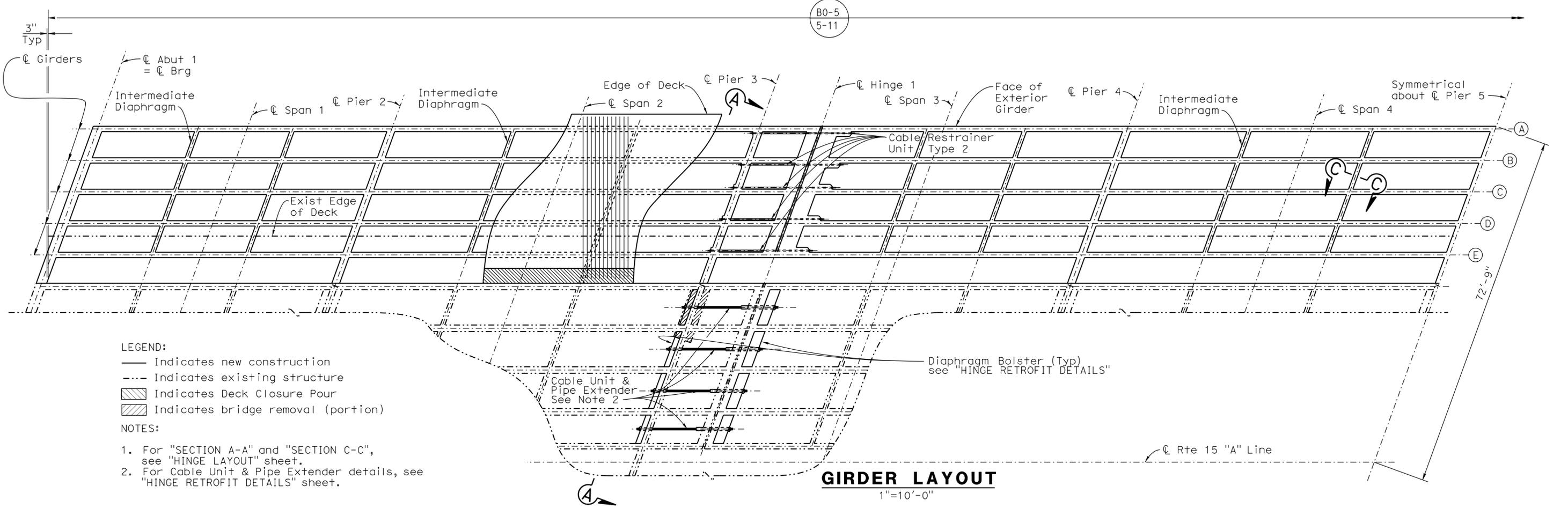
Alternative 1: False work shall be released as soon as permitted by the specifications. Closure pour shall not be placed sooner than 60 days after the falsework had been released.

Alternative 2: Falsework shall not be released less than 28 days after the last concrete has been placed. Closure pour shall not be placed sooner than 14 days after the falsework has been released. When Falsework Release Alternative 2 is used, camber values are 0.75 times those shown.

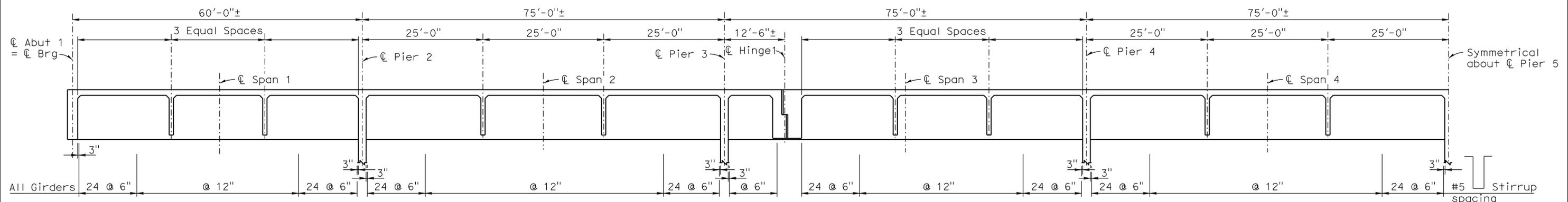


CAMBER DIAGRAM

NO SCALE
 Note: Camber shown does not include allowance for falsework settlement.



- LEGEND:**
- Indicates new construction
 - - - Indicates existing structure
 - ▨ Indicates Deck Closure Pour
 - ▩ Indicates bridge removal (portion)
- NOTES:**
- For "SECTION A-A" and "SECTION C-C", see "HINGE LAYOUT" sheet.
 - For Cable Unit & Pipe Extender details, see "HINGE RETROFIT DETAILS" sheet.

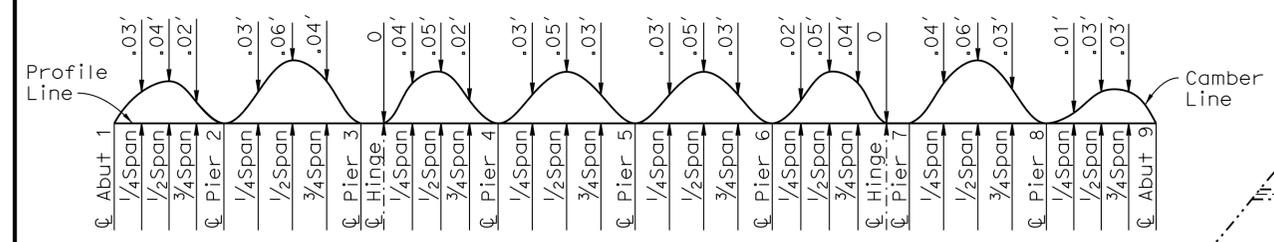


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	711	824

REGISTERED CIVIL ENGINEER	DATE
<i>R. Stiltz</i>	11-07-13
PLANS APPROVAL DATE	
6-23-14	

REGISTERED PROFESSIONAL ENGINEER	No.	Exp.	STATE OF CALIFORNIA
RYAN STILTZ	C65738	9/30/15	CIVIL

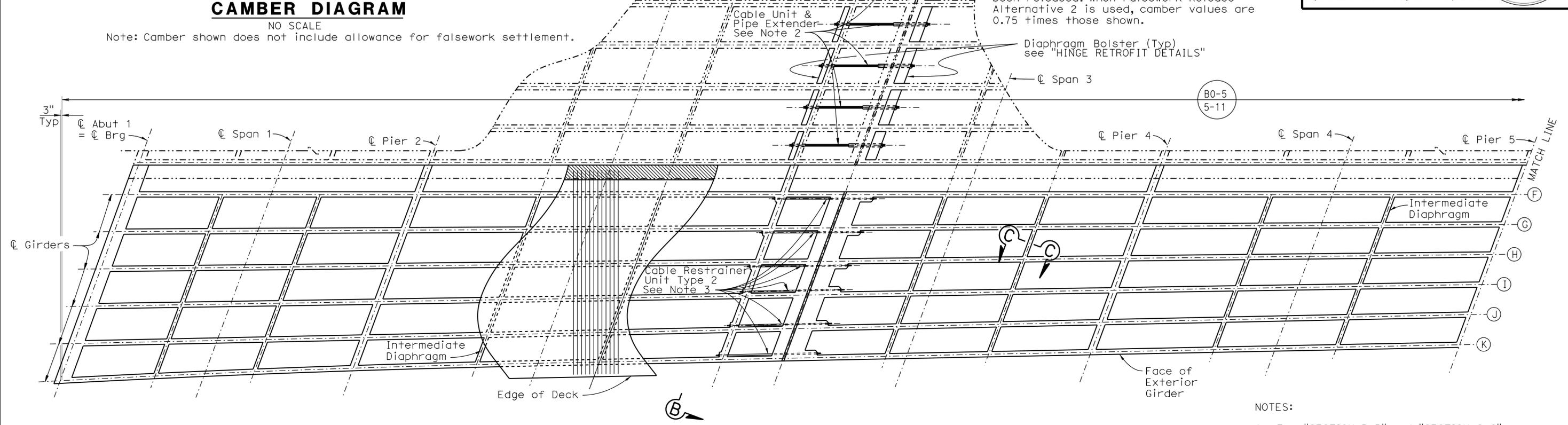
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



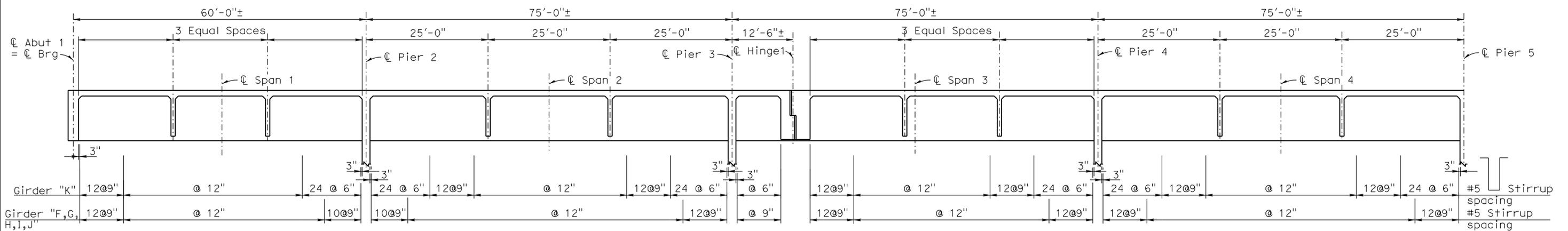
FALSEWORK RELEASE

Alternative 1: False work shall be released as soon as permitted by the specifications. Closure pour shall not be placed sooner than 60 days after the falsework had been released.

Alternative 2: Falsework shall not be released less than 28 days after the last concrete has been placed. Closure pour shall not be placed sooner than 14 days after the falsework has been released. When Falsework Release Alternative 2 is used, camber values are 0.75 times those shown.



- NOTES:
- For "SECTION B-B" and "SECTION C-C", see "HINGE LAYOUT" sheet.
 - For Cable Unit & Pipe Extender details, see "HINGE RETROFIT DETAILS" sheet.
 - For Cable Restrainer Unit Type 2 details, see "CABLE RESTRAINER TYPE 2" sheet.

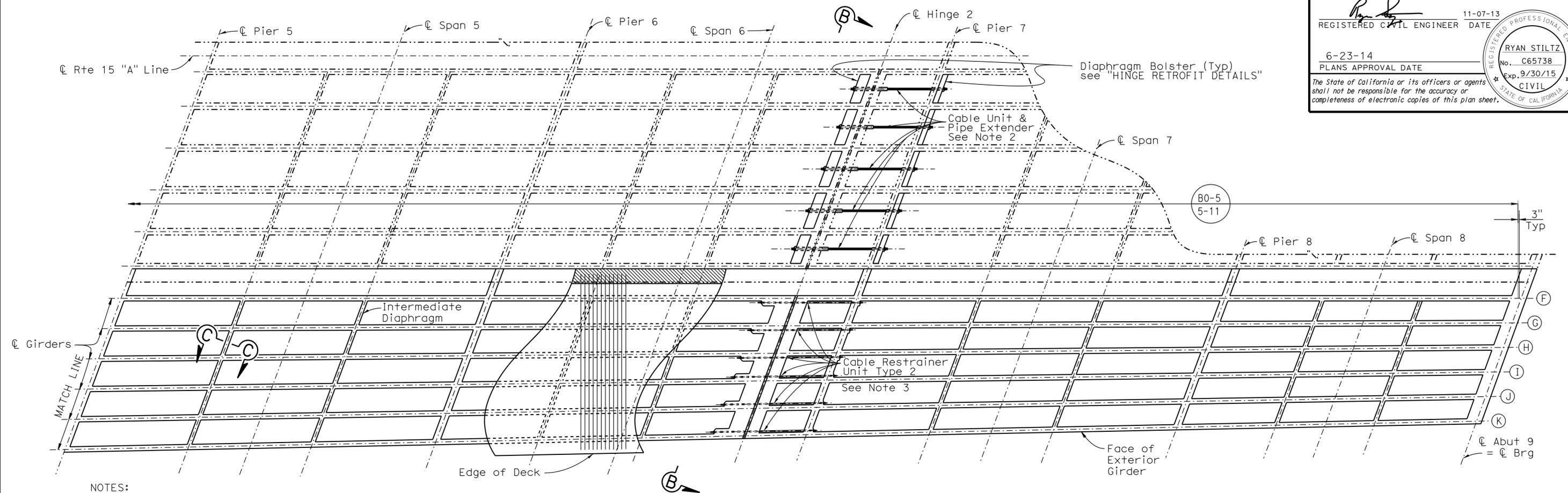


LEGEND:
 — Indicates new construction
 - - - Indicates existing structure
 ▨ Indicates Deck Closure Pour

DESIGN BY R. Stiltz	CHECKED L. Wu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. 54-0483	MOJAVE RIVER BRIDGE (WIDEN)
DETAILS BY G. Hallstrom	CHECKED L. Wu		DESIGN BRANCH 10	POST MILE 43.93	
QUANTITIES BY D. Azzam	CHECKED A. McPhee/F. Chen				

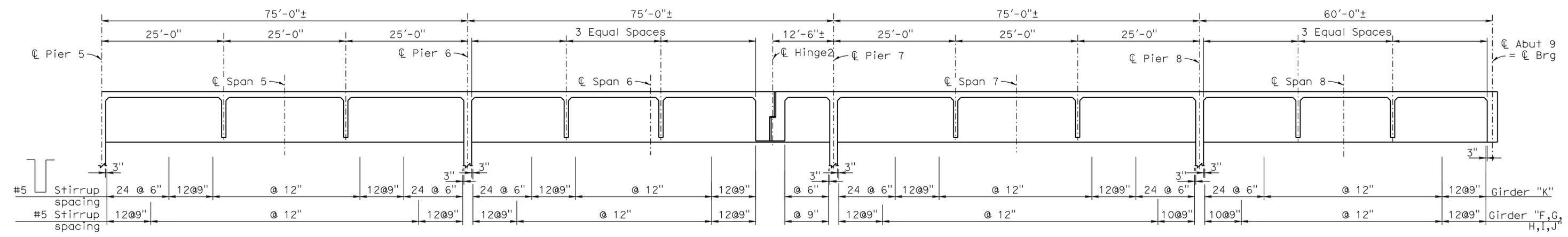
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 16 OF 44
--	--	--------------------	---	----------------	----------------

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	712	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
<i>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.</i>					



- NOTES:
1. For "SECTION B-B" and "SECTION C-C", see "HINGE LAYOUT" sheet.
 2. For Cable Unit & Pipe Extender details, see "HINGE RETROFIT DETAILS" sheet.
 3. For Cable Restrainer Unit Type 2 details, see "CABLE RESTRAINER TYPE 2" sheet.

GIRDER LAYOUT
1"=10'-0"



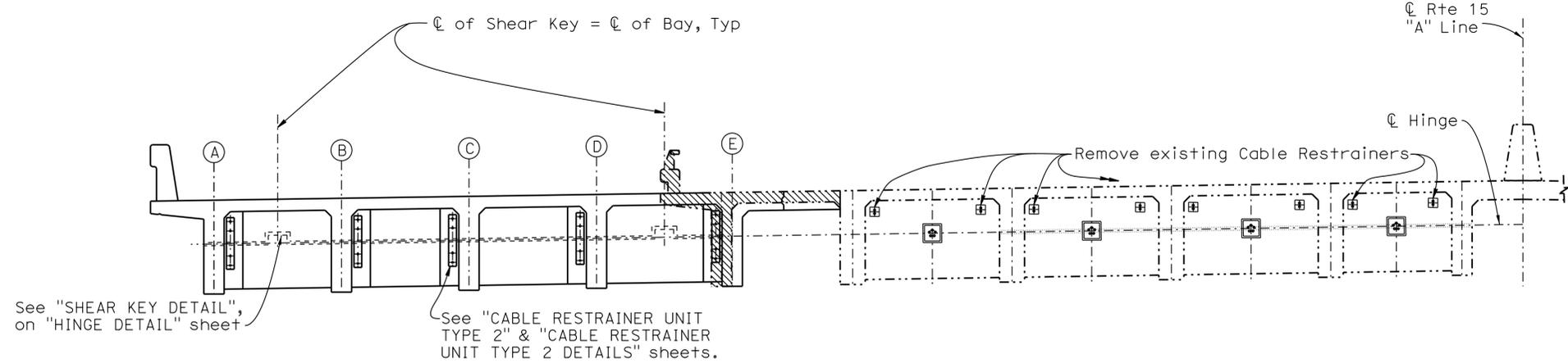
LONGITUDINAL SECTION
1"=10'-0"

LEGEND:
 — Indicates new construction
 - - - Indicates existing structure
 ▨ Indicates Deck Closure Pour

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY R. Stiltz	CHECKED L. Wu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0483	MOJAVE RIVER BRIDGE (WIDEN) RIGHT WIDENING GIRDER LAYOUT NO. 2
	DETAILS	BY G. Hallstrom	CHECKED L. Wu			POST MILE	43.93	
	QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen			REVISION DATES	05-27-08 07-18-08 8-30-12 2-28-13 5-09-13 6-04-13	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 17 OF 44	

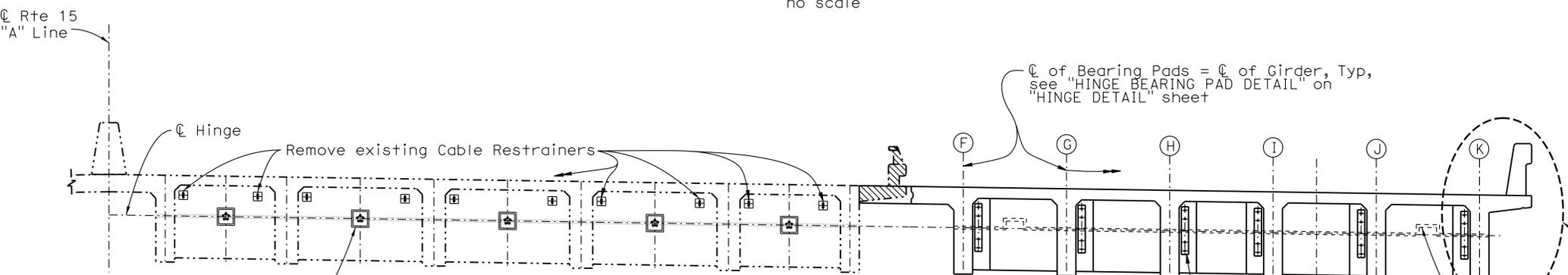
FILE => 5404831g_1o17.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	713	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
<i>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.</i>					



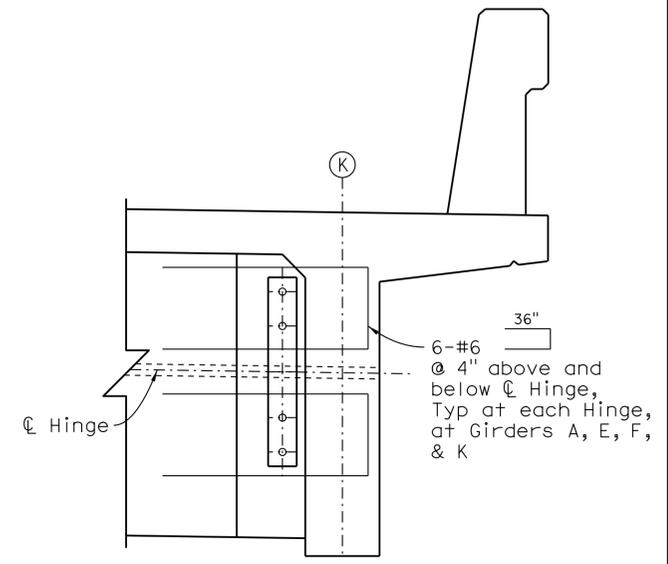
SECTION A-A

no scale



SECTION B-B

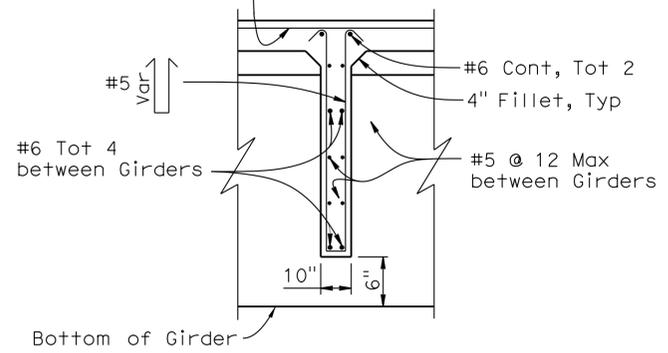
no scale



DETAIL A

no scale

#5 x 6'-0" @ 12 between Girders, centered on Diaphragm



NOTE:
Diaphragm may be vertical or normal to deck grade

SECTION C-C

NOTES:

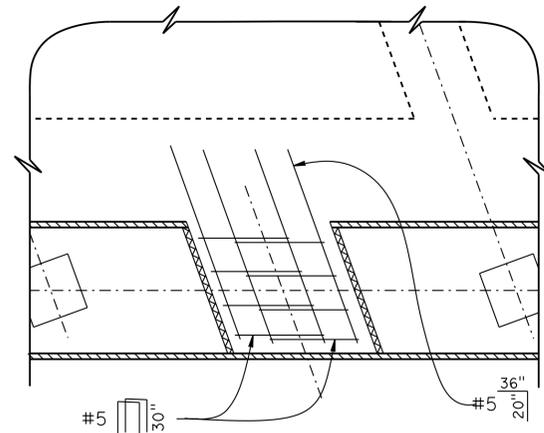
1. For location of "SECTION A-A", see "LEFT WIDENING GIRDER LAYOUT" sheet.
2. For location of "SECTION B-B", see "RIGHT WIDENING GIRDER LAYOUT NO. 1" sheet.
3. For location of "SECTION C-C", see "LEFT WIDENING GIRDER LAYOUT" sheet, "RIGHT WIDENING GIRDER LAYOUT NO. 1" sheet, and "RIGHT WIDENING GIRDER LAYOUT NO. 2" sheet.

LEGEND:

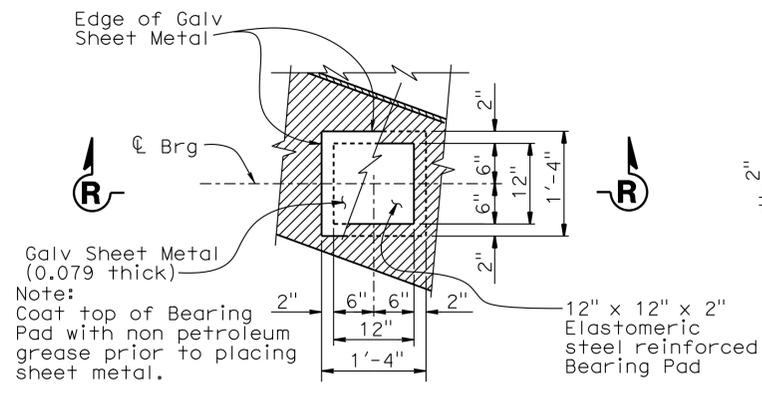
- Indicates new construction
- Indicates existing structure
- ▨ Indicates bridge removal (portion)

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	DESIGN	BY R. Stiltz	CHECKED L. Wu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0483	MOJAVE RIVER BRIDGE (WIDEN) HINGE LAYOUT	SHEET 18 OF 44
	DETAILS	BY G. Hallstrom	CHECKED L. Wu			POST MILE	43.93		
	QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen			REVISION DATES	06-18-08 9-04-12 12-09-12 5-09-13 6-04-13 7-11-13		
				CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES				

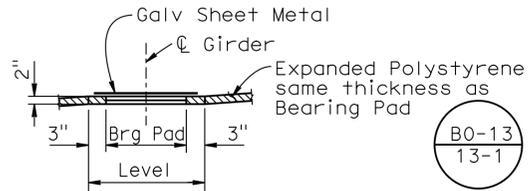
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	714	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					



PLAN
No Scale



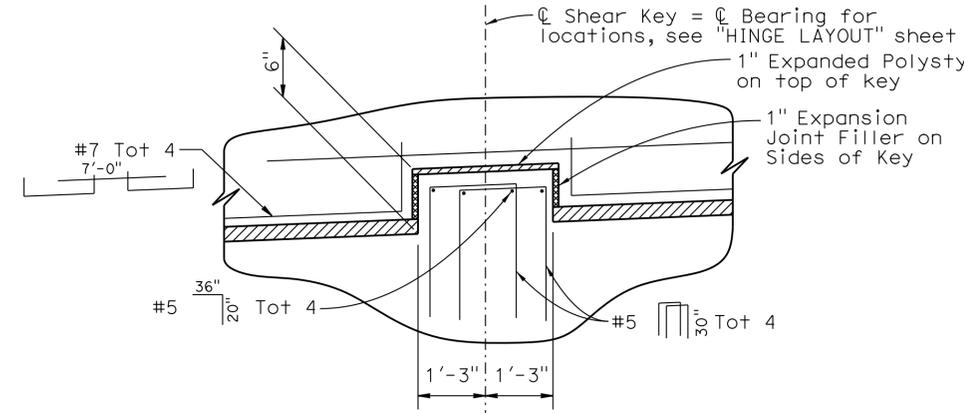
PLAN



SECTION R-R

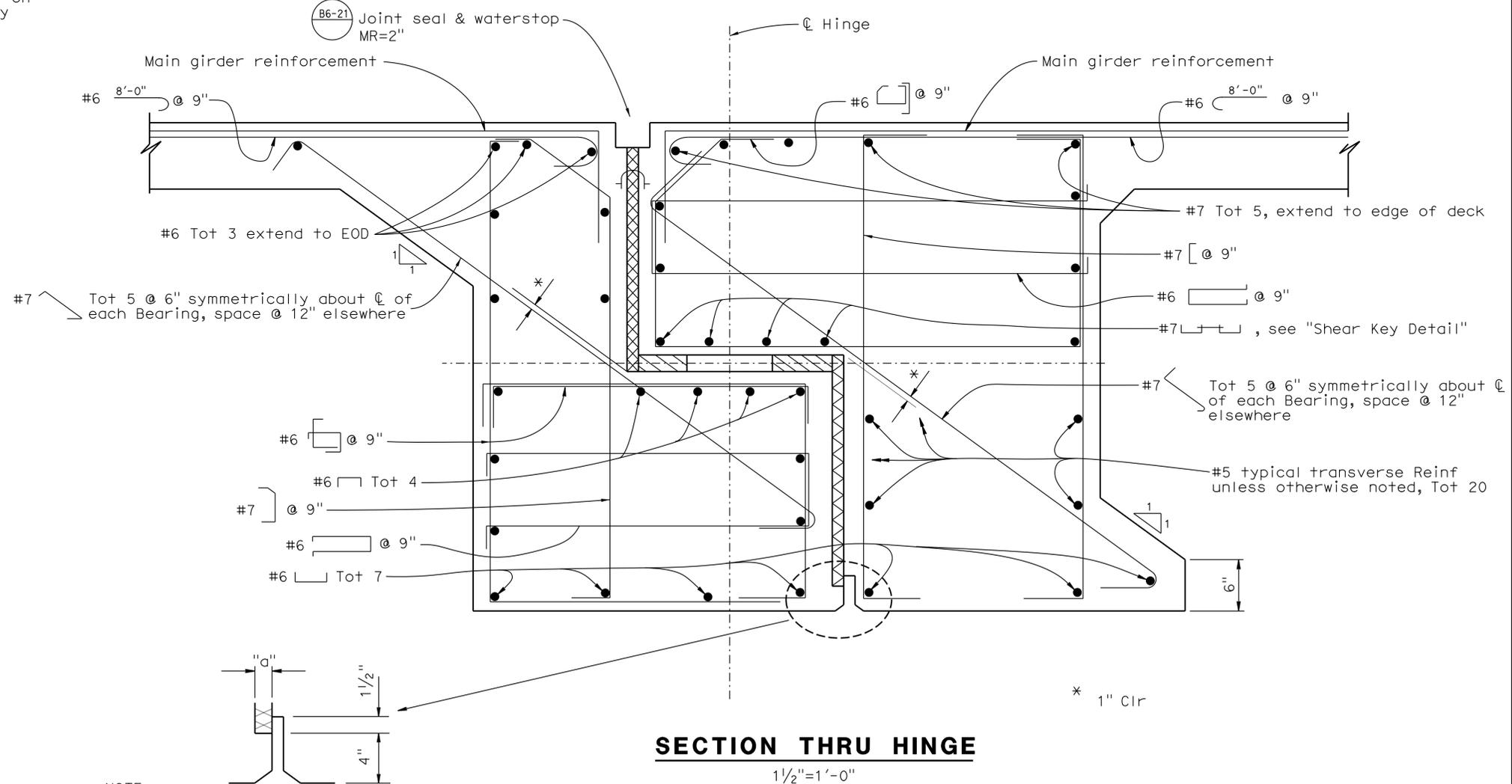
HINGE BEARING PAD DETAIL

No Scale
Details typical at all bearing pads



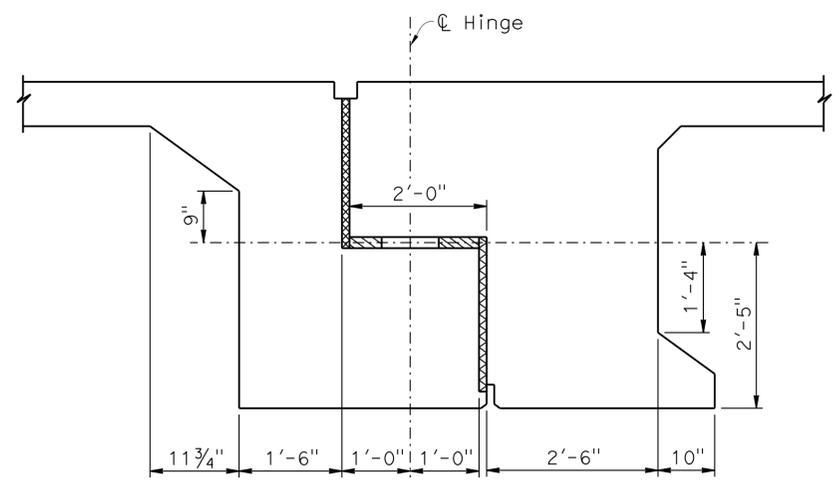
SHEAR KEY DETAIL

No Scale



SECTION THRU HINGE

1/2" = 1'-0"



HINGE DIMENSIONS

3/4" = 1'-0"

NOTE:
For "a", see B6-21
Standard Plan sheet.

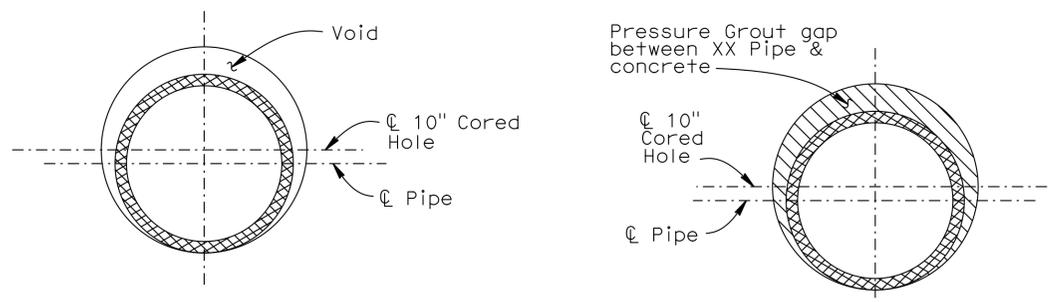
DESIGN	BY R. Stiltz	CHECKED L. Wu
DETAILS	BY G. Hallstrom	CHECKED L. Wu
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO. 54-0483
POST MILE 43.93

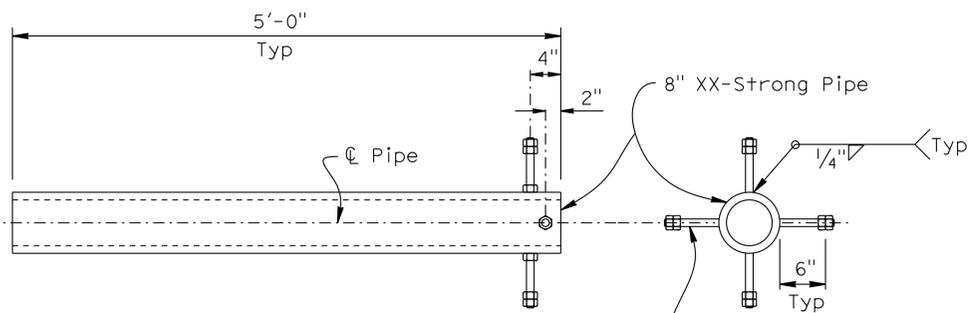
MOJAVE RIVER BRIDGE (WIDEN)
HINGE DETAILS



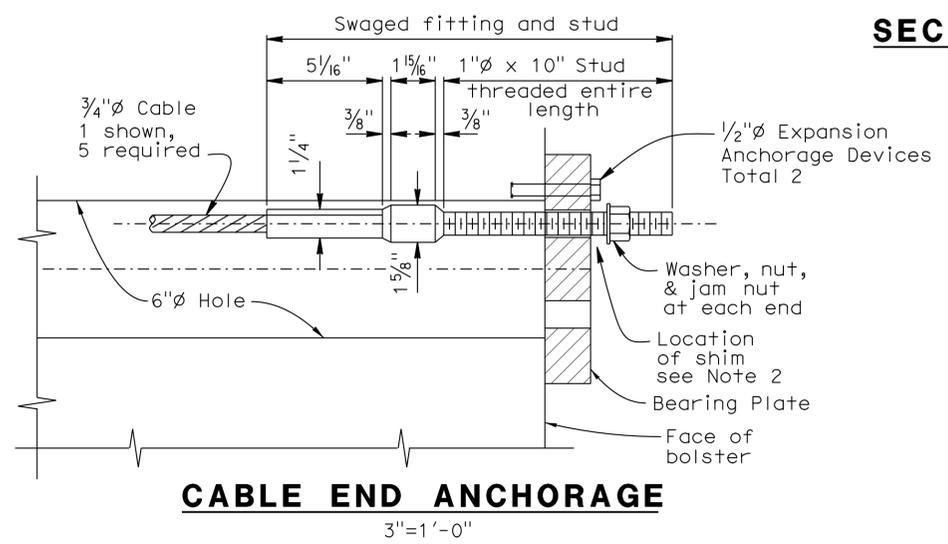
SECTION A-A
No Scale

SECTION B-B
No Scale

NOTE:
Place 8XX-Strong Pipe parallel to girders
Cable restrainers inside pipe not shown.

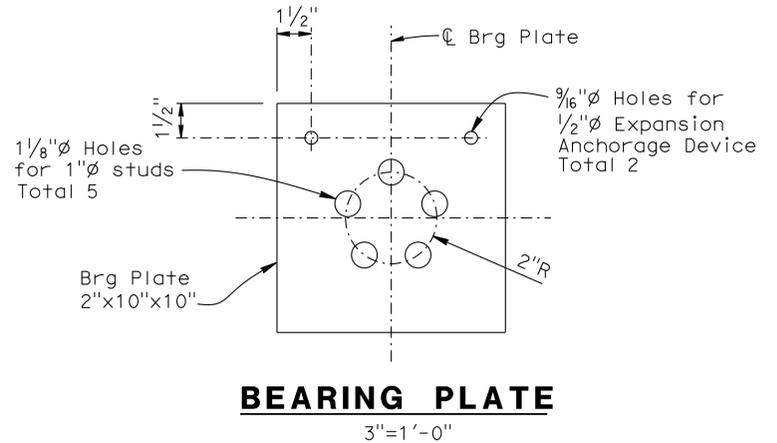


PIPE SHEAR KEY DETAIL
1"=1'-0"



CABLE END ANCHORAGE
3"=1'-0"

SECTION C-C
No Scale

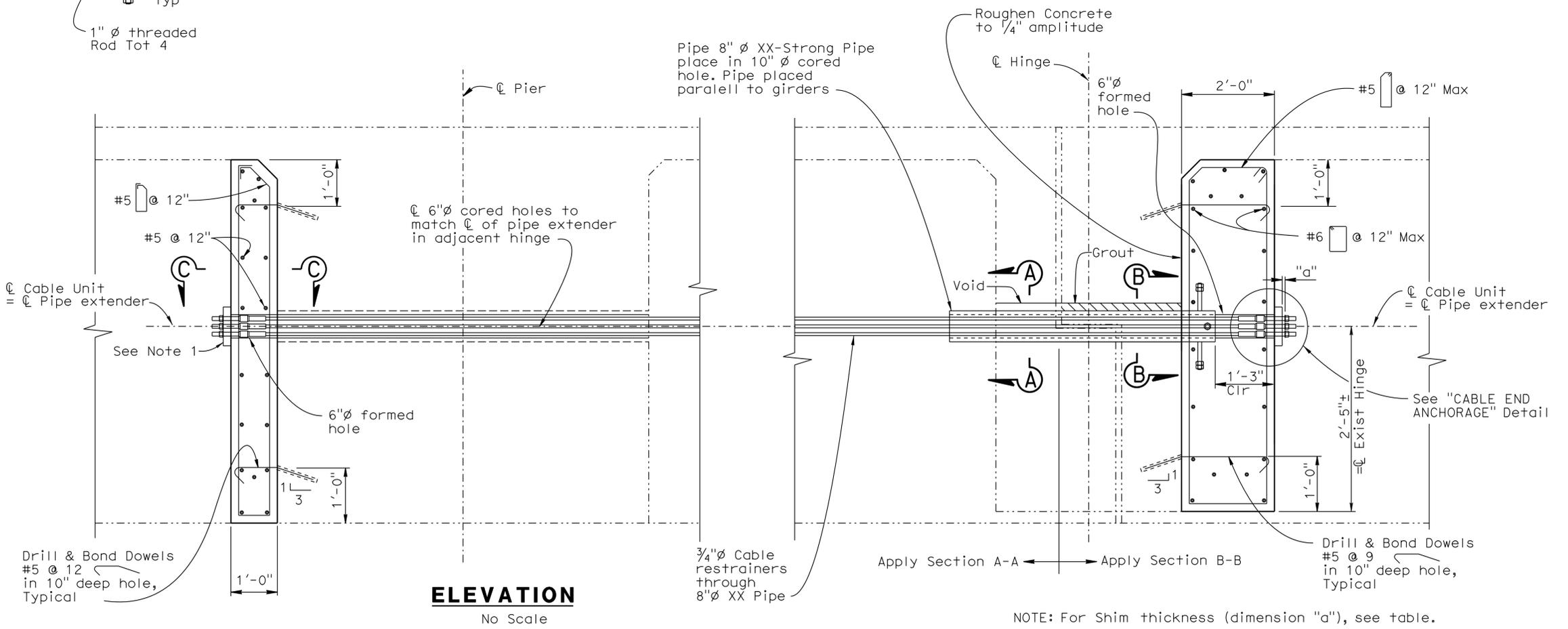


BEARING PLATE
3"=1'-0"

Cable Installation Notes:

- At Bent side:
Place Bearing Plate flush against Bolster face. Tighten nuts snug against Bearing Plate. Place thread locking compound.
- At Hinge side:
Place Bearing Plate flush against Bolster face. Place Shims and tighten nuts to 100 ft-lbs torque. Place thread locking fluid. Remove shims. Shim thickness to be in accordance with table.

Structure Temp. (°F)	Shim Thickness (In)	
	Left Widening	Right Widening
30	1/2"	1/2"
50	3/4"	3/4"
70	1"	1"
90	1 1/2"	1 1/2"
110	1 3/4"	1 3/4"



ELEVATION
No Scale

NOTE: For Shim thickness (dimension "a"), see table.

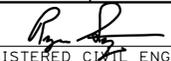
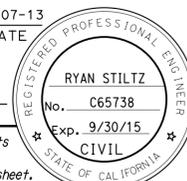
DESIGN	BY R. Stiltz	CHECKED L. Wu
DETAILS	BY G. Hallstrom	CHECKED L. Wu
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen

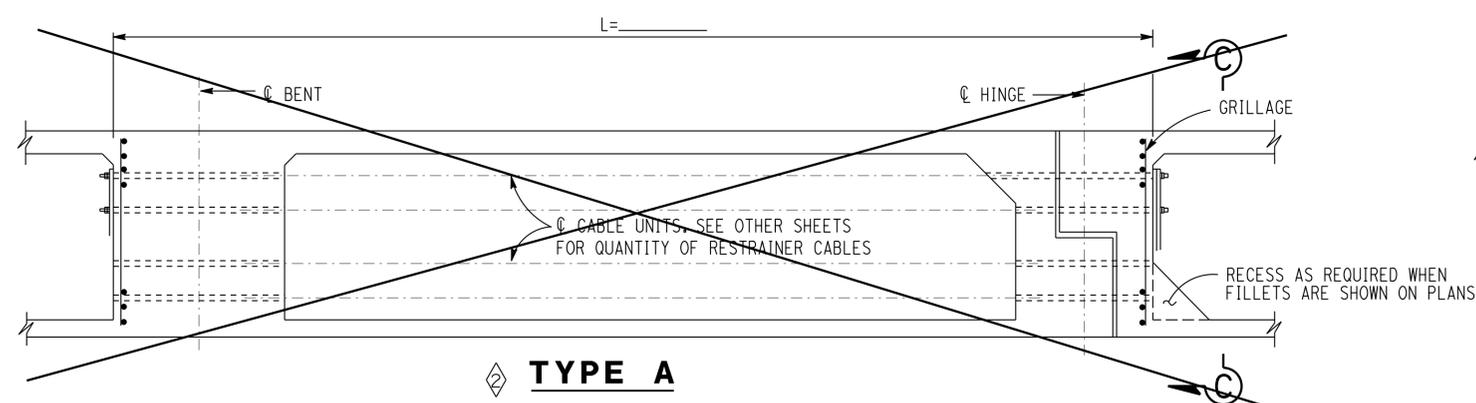
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

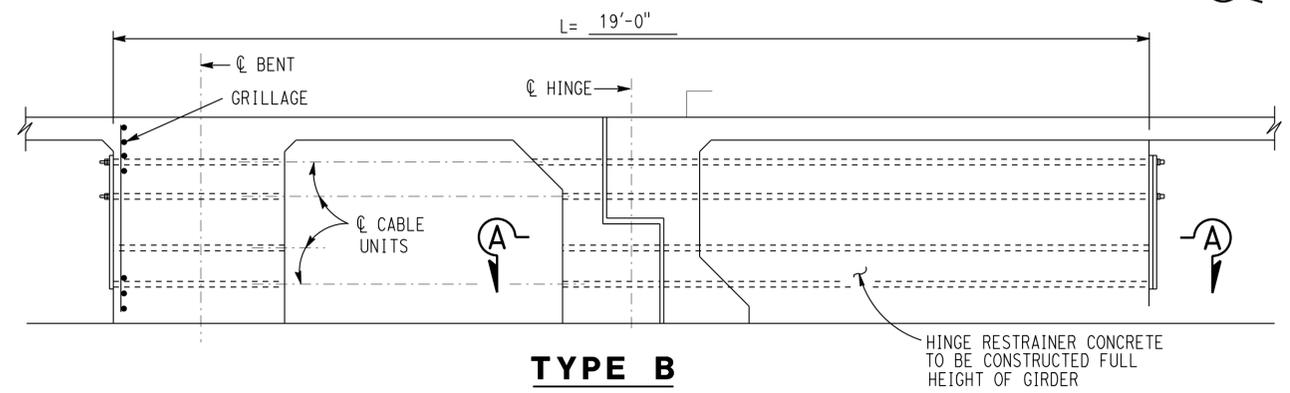
BRIDGE NO. 54-0483
POST MILE 43.93

MOJAVE RIVER BRIDGE (WIDEN)
HINGE RETROFIT DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	716	824
 REGISTERED CIVIL ENGINEER			11-07-13 DATE		
6-23-14 PLANS APPROVAL DATE					
<i>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.</i>					



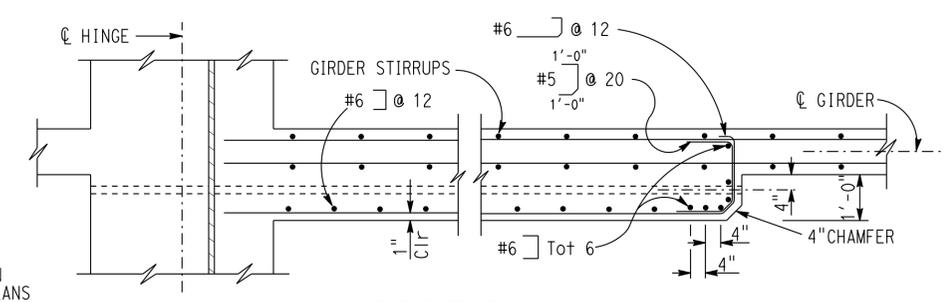
TYPE A



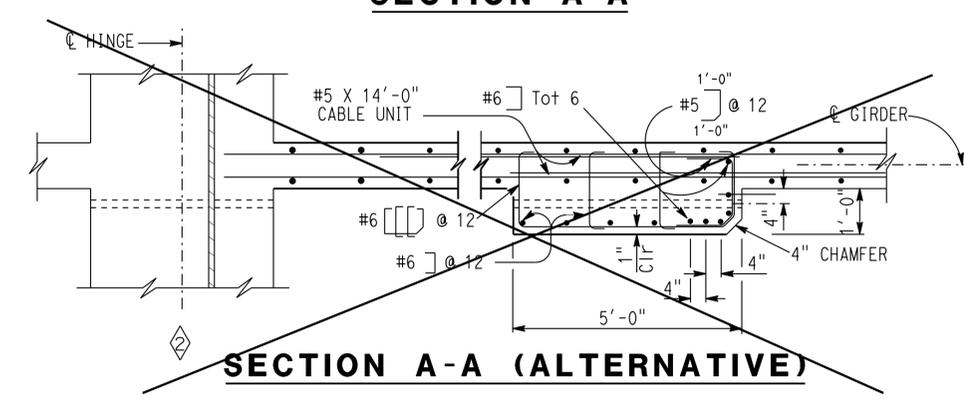
TYPE B

LONGITUDINAL HINGE RESTRAINER

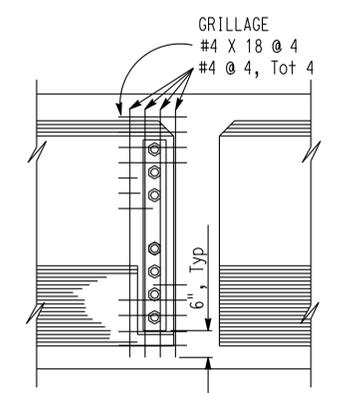
HINGE RESTRAINER CONCRETE TO BE CONSTRUCTED FULL HEIGHT OF GIRDER



SECTION A-A

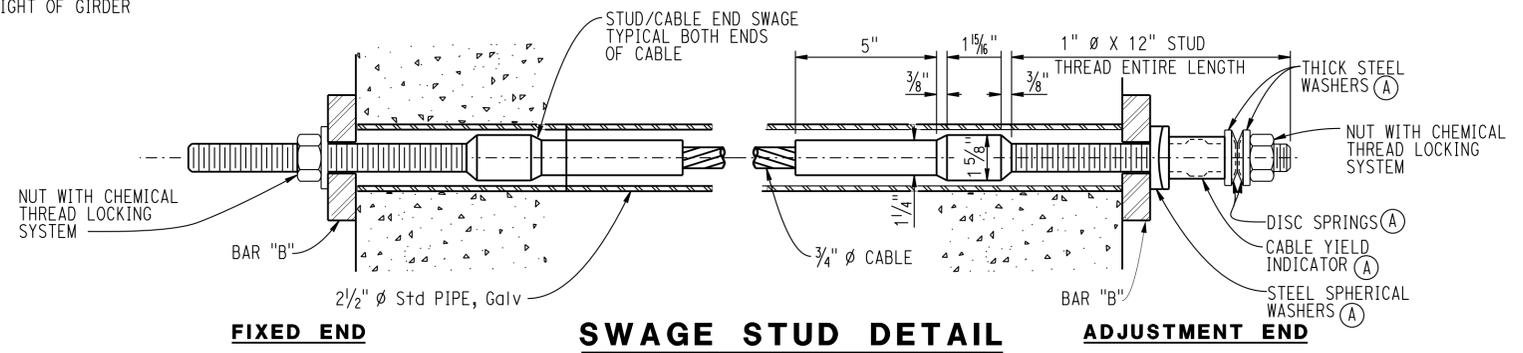


SECTION A-A (ALTERNATIVE)



SECTION C-C

NOTE: SLOPE TO MATCH SLOPING EXTERIOR GIRDERS



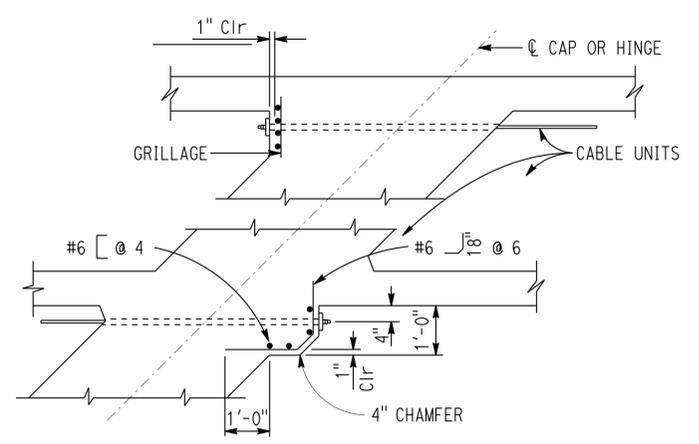
FIXED END

SWAGE STUD DETAIL

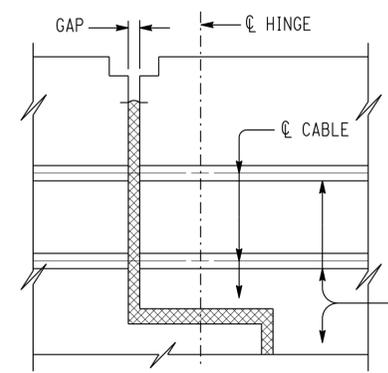
ADJUSTMENT END

(A) FOR DIMENSIONS AND INSTALLATION PROCEDURE, SEE "CABLE RESTRAINER ADJUSTMENT HARDWARE" SHEET

- NOTES:
1. Restrainer units to be on tangent alignment
 2. Anchor nuts shall not be set until 30 days following completion of prestressing for CIP prestressed bridges
 3. See other sheets for location and number of longitudinal and vertical hinge restrainers, and table of joint openings
 4. Contractor may install restrainers in horizontal arrangement with approval of the Engineer. The location shall be in the middle 1/2 depth of the structure
 5. An alternative is to place restrainers in two horizontal layers, equally located above and below the mid structure depth. The number of restrainers in each layer shall not differ by more than one
 6. The ends of pipe shall be covered or capped to prevent concrete and debris from entering the pipe until hinge concrete is placed
 7. Care should be taken to align the pipes on each side of the hinge
 8. All ends of pipes must be flush with or slightly recessed from the concrete. The inside edges of the pipes must be smooth to prevent fraying of cables

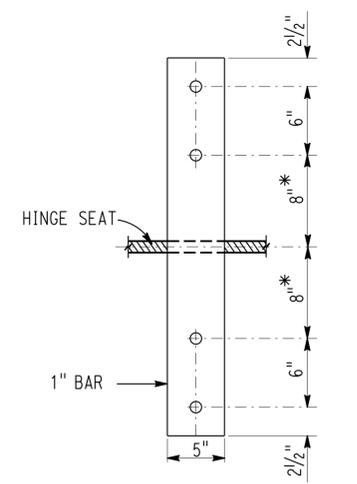


END ANCHORAGE DETAILS AT HINGE OR CAP PART PLAN



HINGE DETAIL

2 1/2 Std PIPE, Galv SHALL NOT EXTEND INTO GAP, SEE NOTES 6, 7 & 8



DETAIL - BAR B

* DIMENSION MAY BE ADJUSTED TO CLEAR REINFORCEMENT

SPECIAL DETAIL NO SCALE

REVISED STANDARD DRAWING	
FILE NO: xs7-050	APPROVAL DATE: <u>January 2012</u>

-  Revised Detail
-  Does Not Apply

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

BRIDGE NO. 54-0483	MOJAVE RIVER BRIDGE (WIDEN)
POST MILE 43.93	
CABLE RESTRAINER TYPE 2	

DISC SPRINGS AND WASHERS

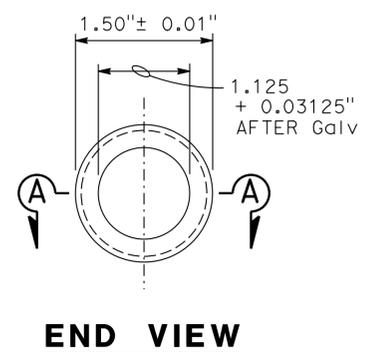
ALL DIMENSIONS IN INCHES, EXCEPT AS NOTED

L*	DISC SPRING					STEEL SPHERICAL WASHER			THICK WASHER		
	ID	OD	t	H	COLOR CODE	ID	OD	NOMINAL THICKNESS	ID	OD	t**
00.0 - 25.0	1.00	2.00	0.065	0.130	WHITE	1.19	2.25	0.50	1.03	2.00	0.25
25.1 - 31.9	1.00	2.00	0.084	0.136	RED	1.19	2.25	0.50	1.03	2.00	0.25
32.0 - 37.9	1.00	2.00	0.097	0.145	BLUE	1.19	2.25	0.50	1.03	2.00	0.25
38.0 - 45.0	1.25	2.50	0.120	0.180	YELLOW	1.31	2.50	0.50	1.16	2.00	0.25

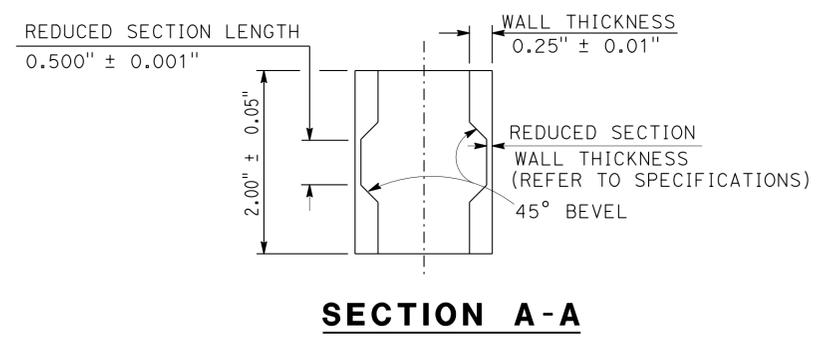
* For limits of length L (ft), use effective length of cable, from face-to-face outer surfaces of anchorage plate or bearing bar. Refer to Bridge detail sheets for approximate length required.

** MINIMUM VALUE

NOTE: All OD and ID dimensions for washers and disc springs shall meet the dimensional tolerances for hardened steel washers, ASTM F436

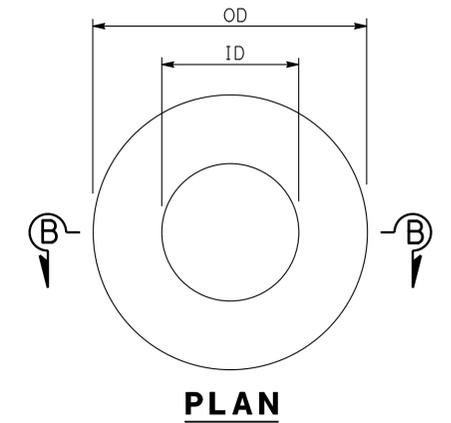


END VIEW

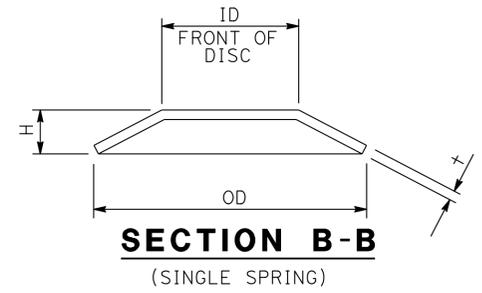


SECTION A-A

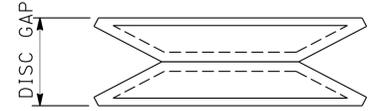
"ALL DIMENSIONS ARE BEFORE GALVANIZING EXCEPT AS NOTED"
CABLE YIELD INDICATOR



PLAN



SECTION B-B
(SINGLE SPRING)



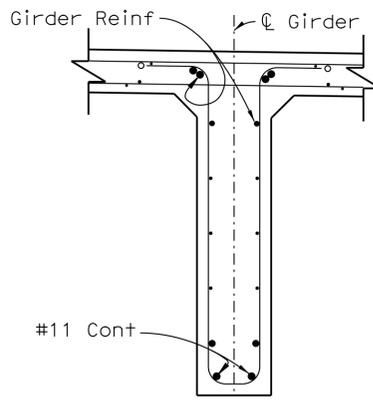
AS INSTALLED ON STUD

NOTE: FOR DIMENSIONS NOT SHOWN, SEE TABLE
DISC SPRING

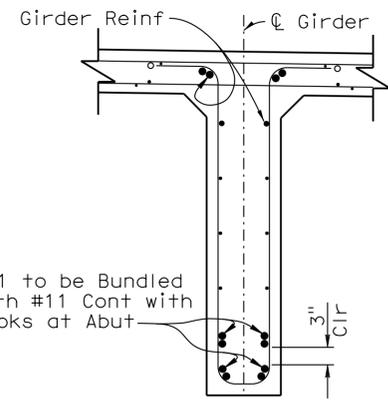
RESTRAINER UNIT INSTALLATION PROCEDURE

- For typical 'girder to opposite girder' or 'bent cap to girder' restrainers with one adjustment end:
 - Place nut, washer and Thread Locking System on fixed end stud prior to tightening the cable
 - The adjustment end shall be at the same end of the cable for all restrainers at a specific hinge or bent
 - Tighten the nuts on the cable from the Adjustment End of restrainer until the disc springs collapse and there is no disc gap remaining between the discs
- For typical "U" or "V" shaped restrainers units with two adjustment ends:
 - Install Cable Yield Indicator, spherical washers, disc springs, washers and nuts on both adjustment ends of cable type restrainers
 - The ends of the cable must be adjusted simultaneously.
 - Tighten the nuts on the cable from the adjustment ends of restrainer until the disc springs collapse and there is no disc gap remaining between the discs on either end of the cable
- Place thread locking system on adjustment end(s) after tightening the cable but before backing off the nut(s)
 - Back off the nut(s) at the adjustable anchorage(s) a distance equal to the maximum additional amount that the hinge is expected to open, relative to existing ambient conditions, as shown on the plans for movement rating

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	718	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER RYAN STILTZ No. C65738 Exp. 9/30/15 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.					

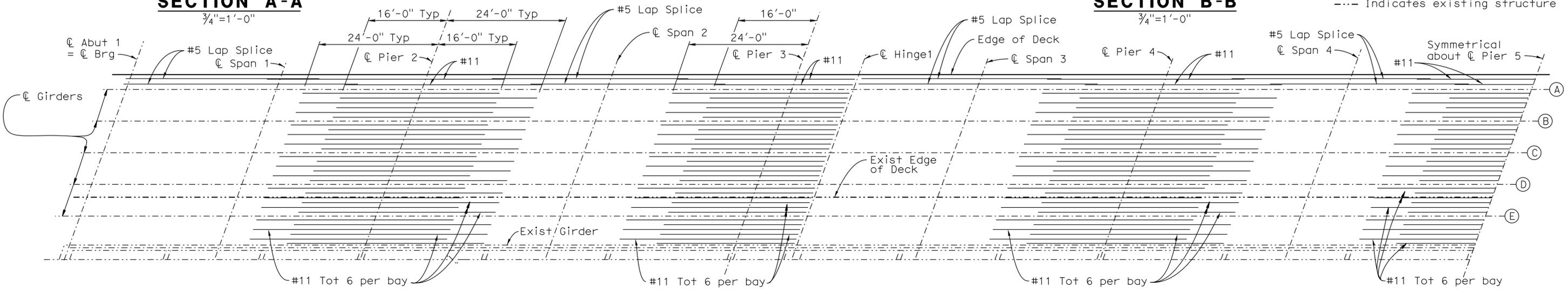


SECTION A-A
3/4"=1'-0"

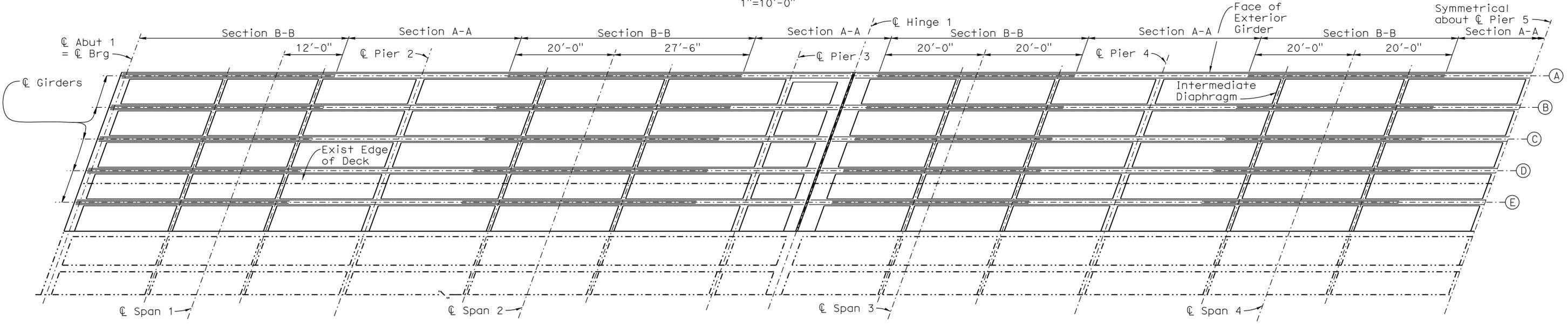


SECTION B-B
3/4"=1'-0"

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



ADDITIONAL TOP REINFORCEMENT
1"=10'-0"



BOTTOM REINFORCEMENT
1"=10'-0"

NOTE:
 #11 Top & Bottom Reinf to be "ultimate" butt spliced only.

DESIGN	BY R. Stiltz	CHECKED L. Wu
DETAILS	BY G. Hallstrom	CHECKED L. Wu
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

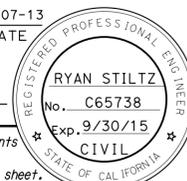
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **10**

BRIDGE NO.	54-0483
POST MILE	43.93

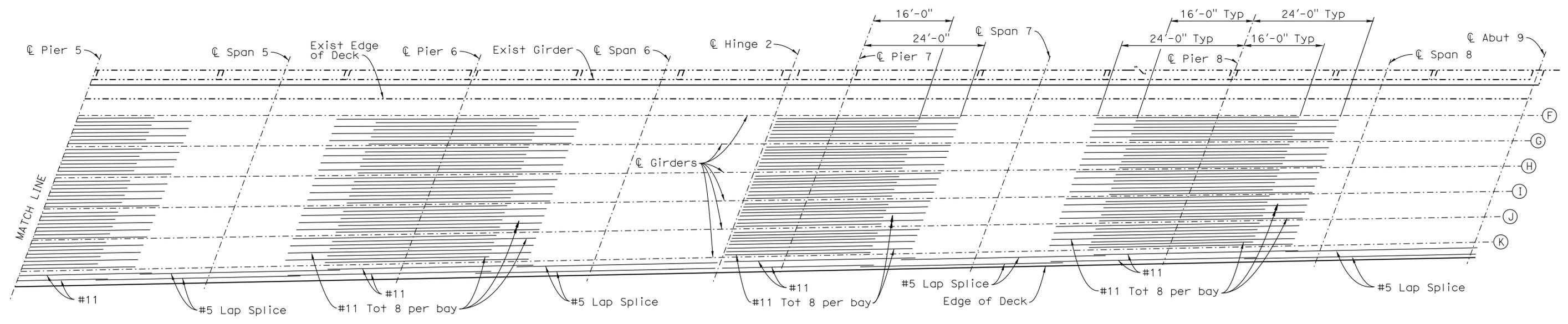
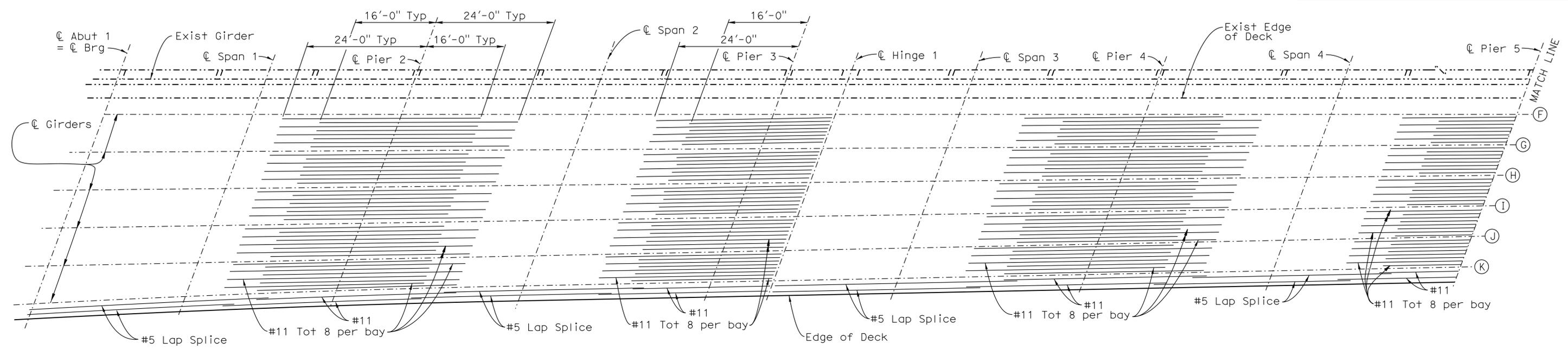
MOJAVE RIVER BRIDGE (WIDEN)
 LEFT WIDENING TOP & BOTTOM GIRDER REINFORCEMENT

USERNAME => s121614 DATE PLOTTED => 30-JUN-2014 TIME PLOTTED => 11:24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	719	824


 11-07-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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

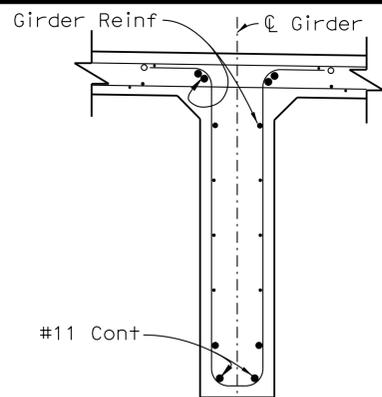


ADDITIONAL TOP REINFORCEMENT
 1"=10'-0"

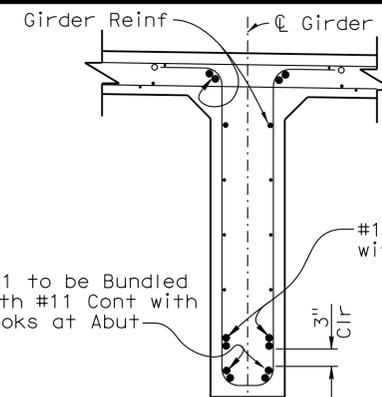
NOTE:
 No splices allowed for #11 Additional Top reinforcement.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN BY R. Stiltz CHECKED L. Wu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0483	MOJAVE RIVER BRIDGE (WIDEN) RIGHT WIDENING TOP GIRDER REINFORCEMENT
	DETAILS BY G. Hallstrom CHECKED L. Wu			POST MILE 43.93	
	QUANTITIES BY D. Azzam CHECKED A. McPhee/F. Chen			REVISION DATES: 05-18-08, 9-18-12, 2-28-13, 5-09-13	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08 EA 3555V1	FILE => 540483og_rtop24.dgn	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 24 OF 44

USERNAME => s121614 DATE PLOTTED => 30-JUN-2014 TIME PLOTTED => 11:24



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

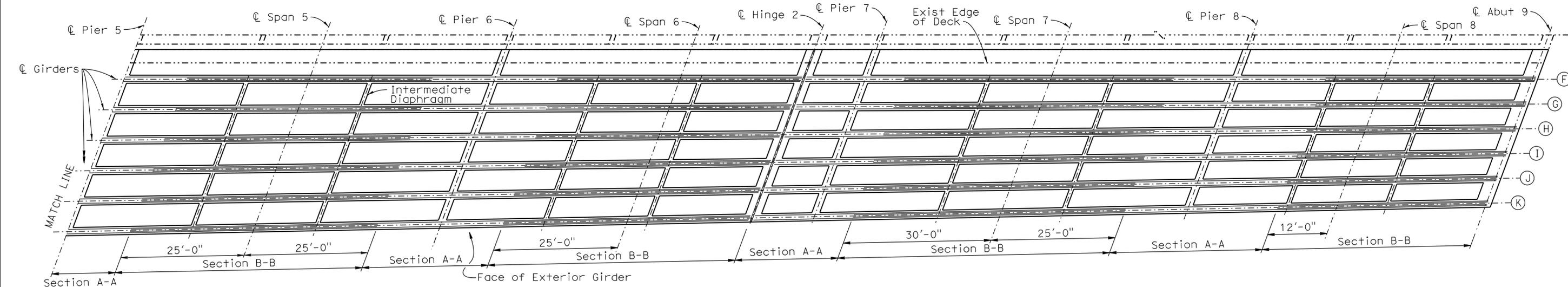
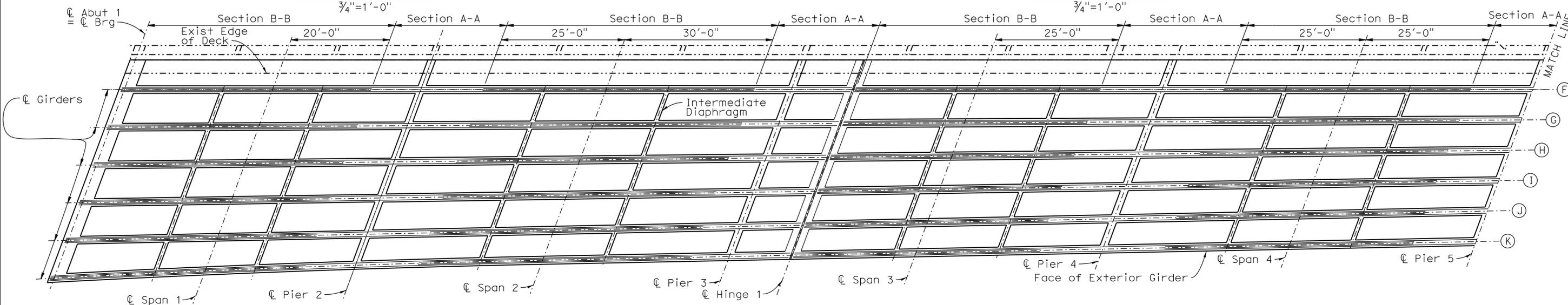


SECTION B-B
3/4"=1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	720	824

11-07-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 CIVIL
 STATE OF CALIFORNIA

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



BOTTOM REINFORCEMENT

1"=10'-0"

NOTE:
 #11 Bottom Reinf to be "ultimate" butt spliced only.

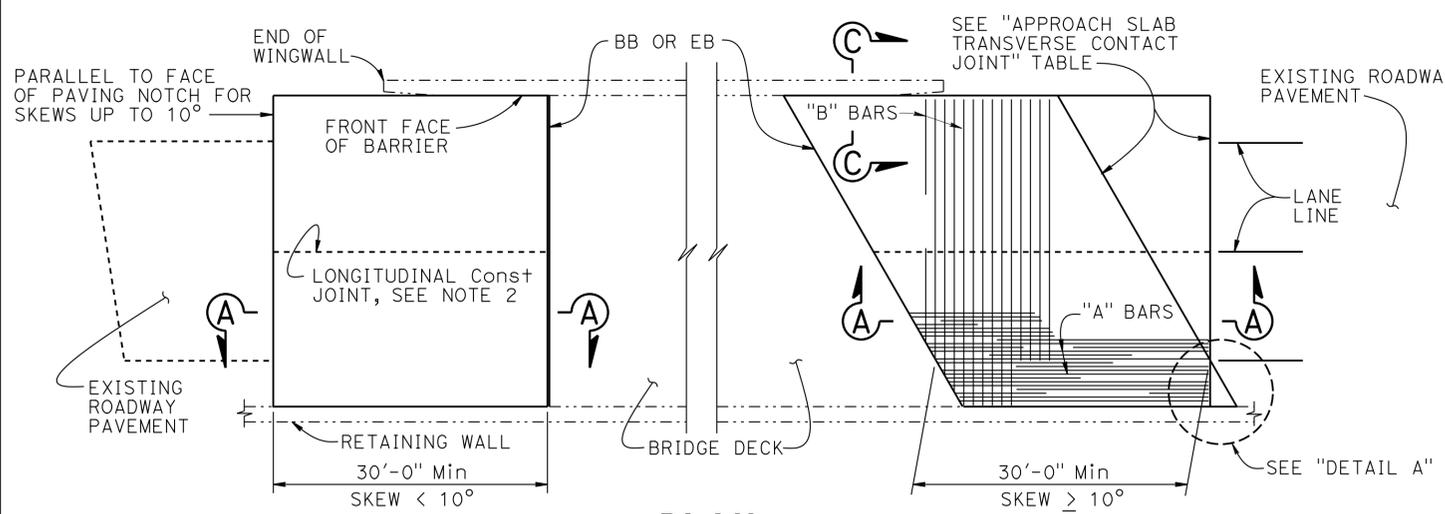
DESIGN	BY R. Stiltz	CHECKED L. Wu
DETAILS	BY G. Hallstrom	CHECKED L. Wu
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

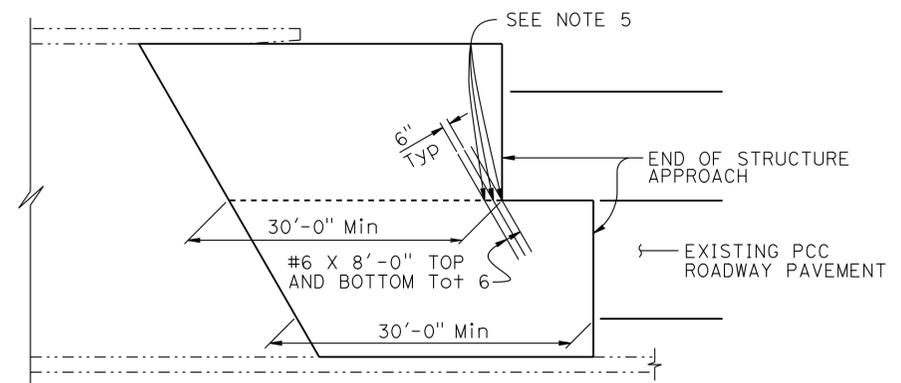
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 10

BRIDGE NO. 54-0483
 POST MILE 43.93

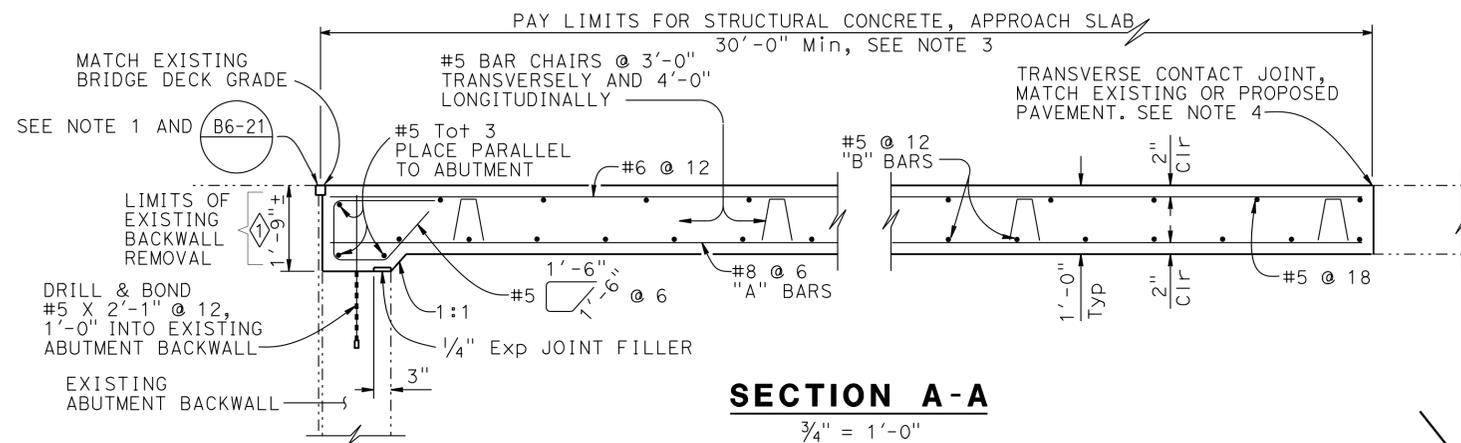
MOJAVE RIVER BRIDGE (WIDEN)
RIGHT WIDENING BOTTOM GIRDER REINFORCEMENT



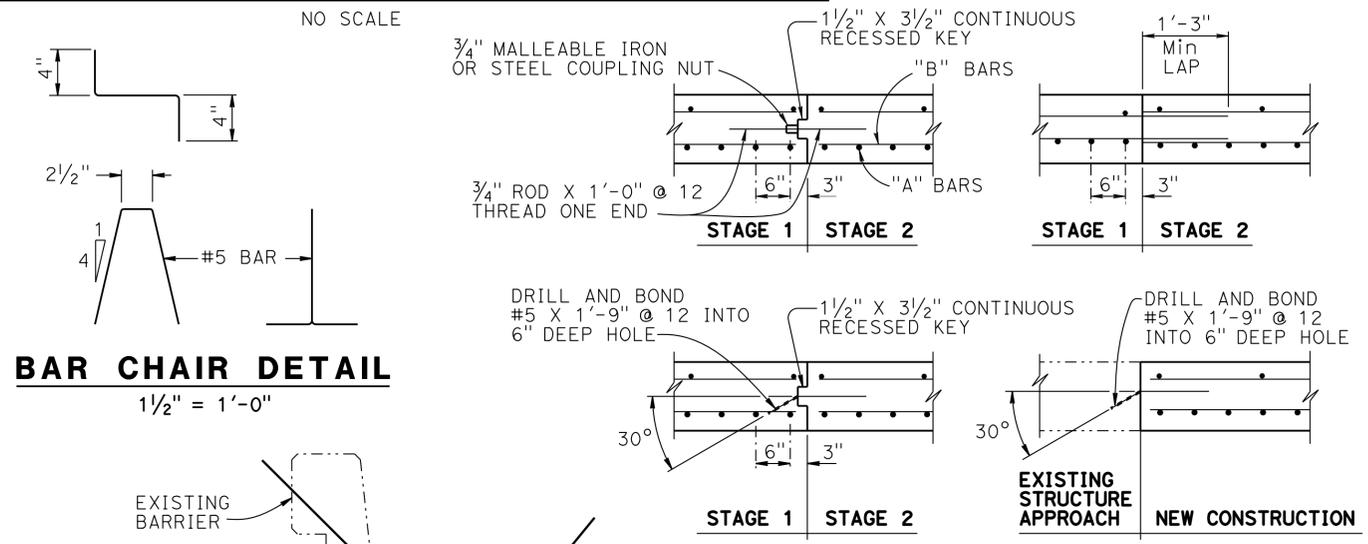
PLAN
1" = 10'



STRUCTURE APPROACH-END STAGGER DETAIL
NO SCALE

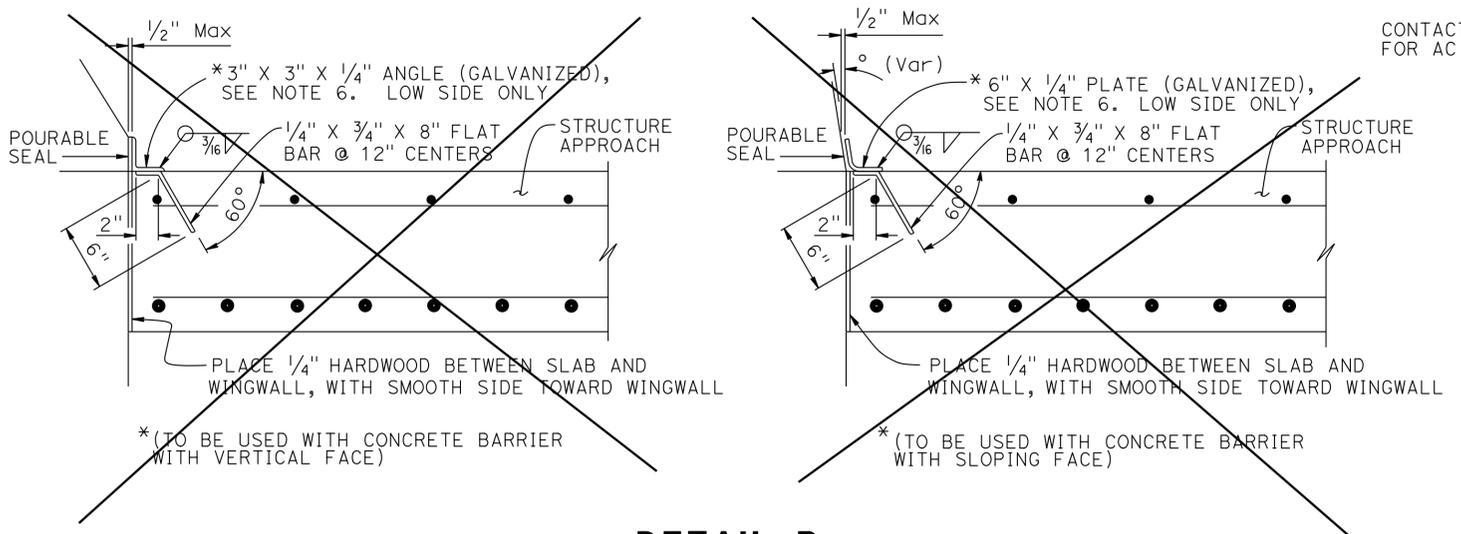


SECTION A-A
3/4" = 1'-0"



BAR CHAIR DETAIL
1 1/2" = 1'-0"

LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES
3/4" = 1'-0"



DETAIL A
No Scale

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

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 PN
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:
- Sealed joint, for MR see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
 - Longitudinal construction joints, when permitted by 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

SPECIAL DETAILS

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

REVISED STANDARD DRAWING
 FILE NO. **xs3-130**
 APPROVAL DATE July 2011

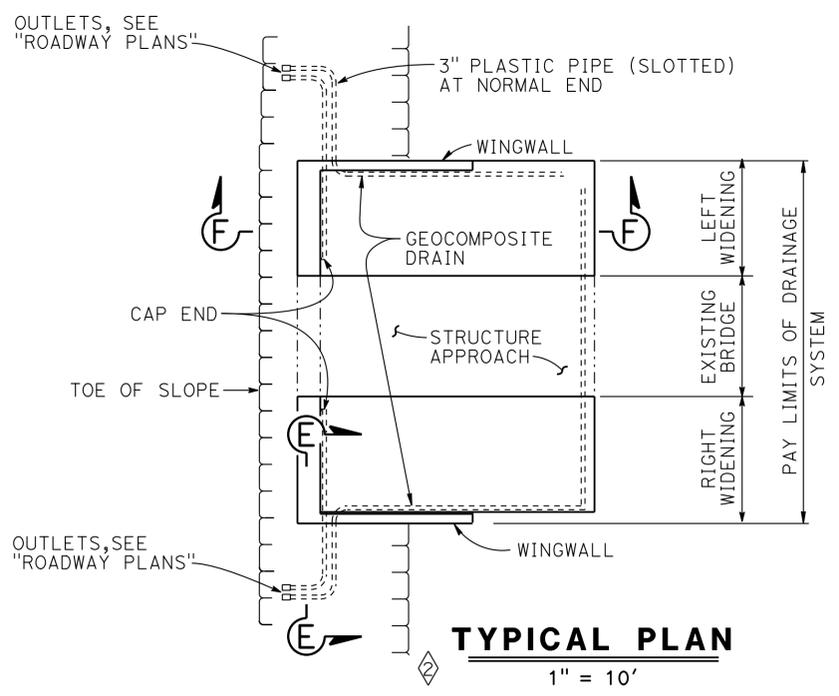
- Revised Detail
- Does Not Apply

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 54-0483
 POST MILE 43.93
MOJAVE RIVER BRIDGE (WIDEN)
STRUCTURE APPROACH TYPE R(30S)

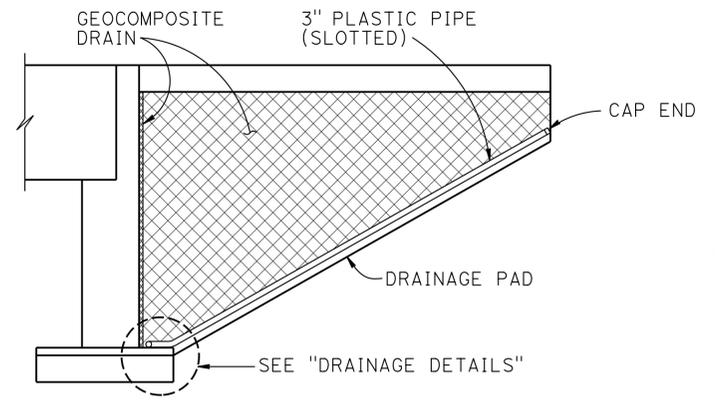
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	723	824
REGISTERED CIVIL ENGINEER			DATE	11-07-13	
6-23-14			PLANS APPROVAL DATE		
No. C65738			Exp. 9/30/15		
CIVIL			STATE OF CALIFORNIA		

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.

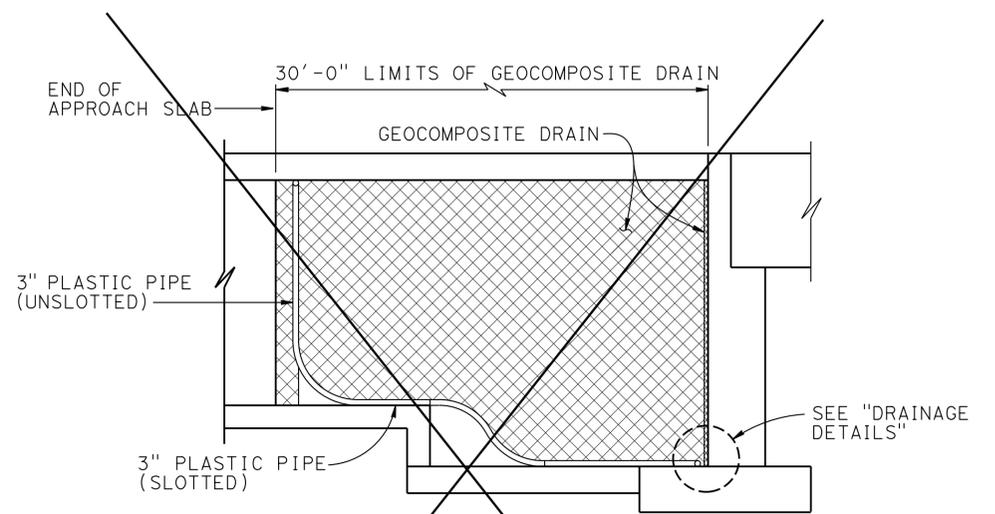


TYPICAL PLAN
1" = 10'

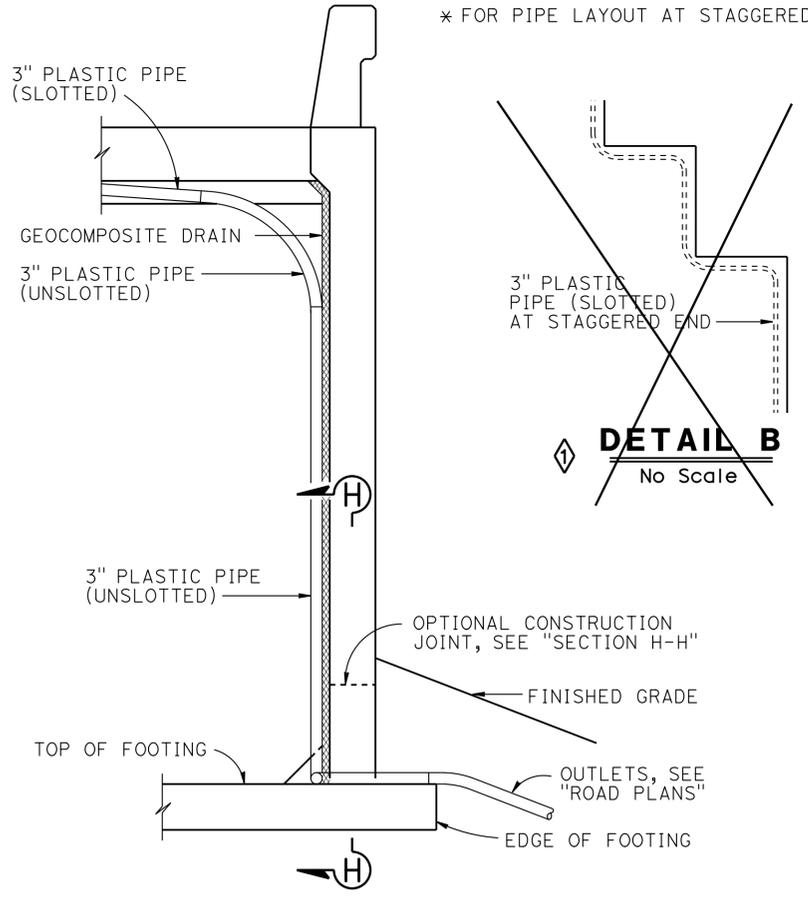
* FOR PIPE LAYOUT AT STAGGERED END, SEE "DETAIL B"



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

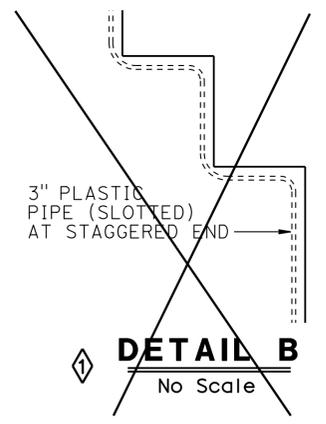


RETAINING WALL WINGWALL DRAINAGE DETAILS
SECTION G-G
1/4" = 1'-0"

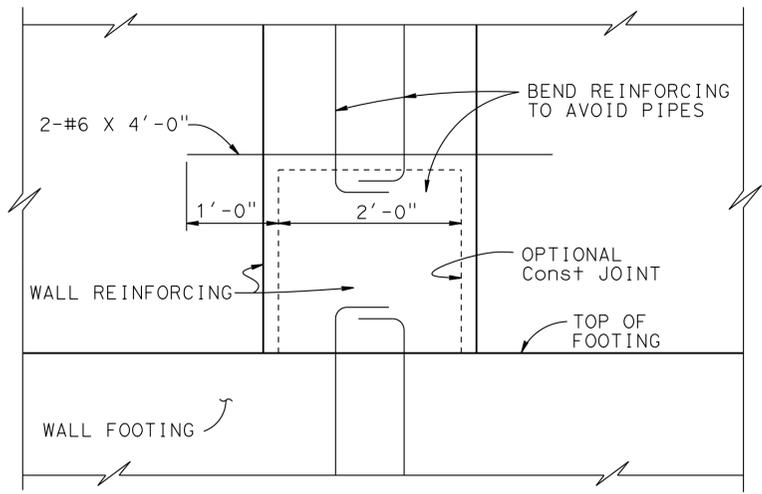


SECTION E-E
1/2" = 1'-0"

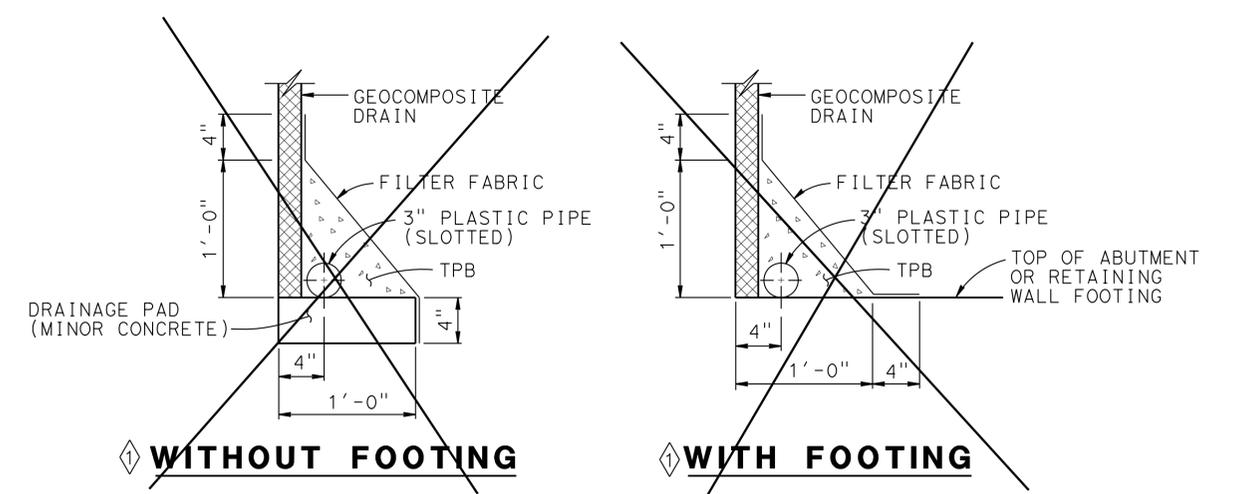
NOTE: Bends and junctions in 3" plastic pipe are 30" radius Min



DETAIL B
No Scale



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



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

SPECIAL DETAILS

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

- 1 Does Not Apply
- 2 Revised Detail

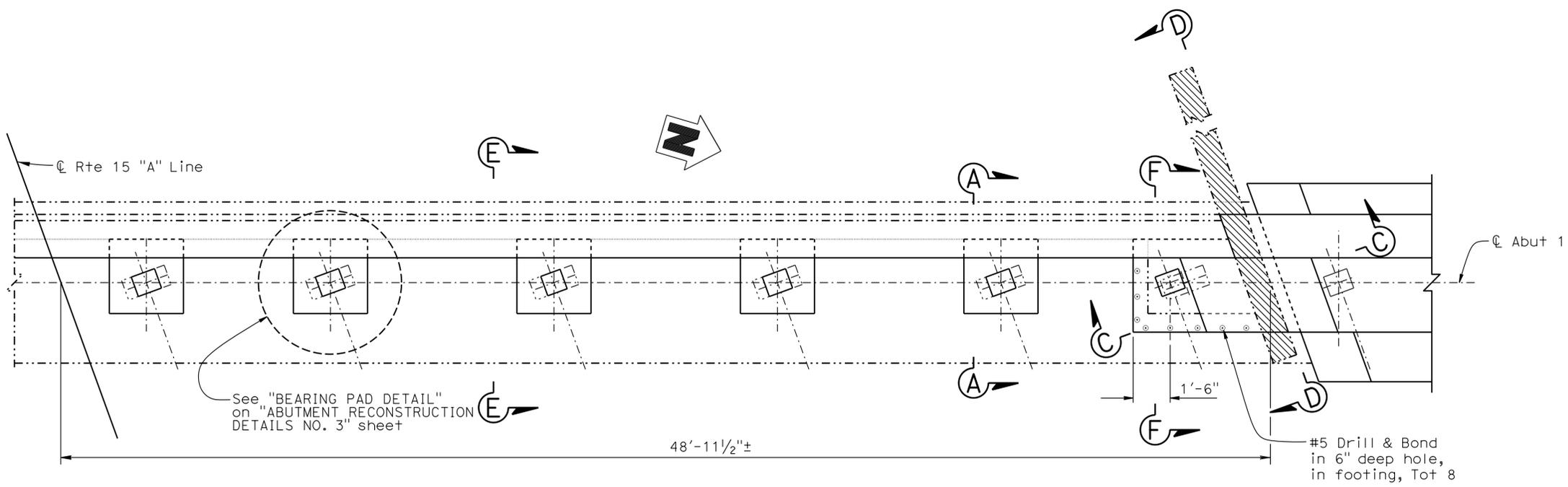
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

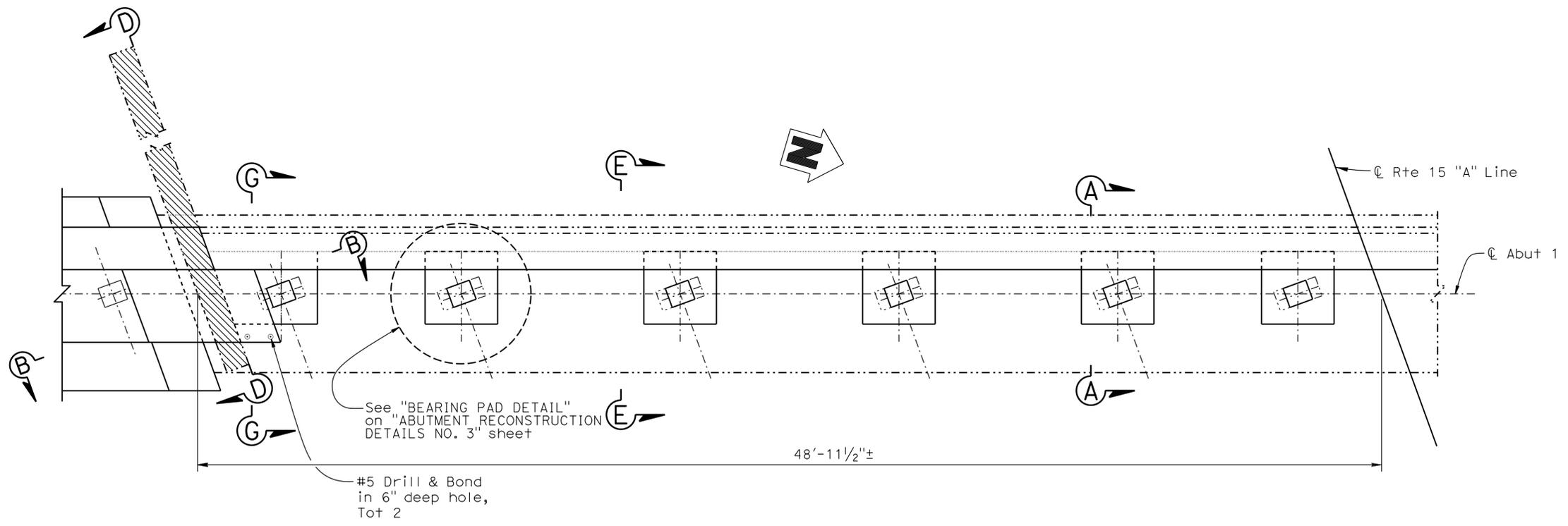
BRIDGE NO.	54-0483
POST MILE	43.93

MOJAVE RIVER BRIDGE (WIDEN)
STRUCTURE APPROACH DRAINAGE DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	724	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
<i>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.</i>					



PARTIAL PLAN ABUTMENT 1 LEFT
 $\frac{3}{8}'' = 1' - 0''$



PARTIAL PLAN ABUTMENT 1 RIGHT
 $\frac{3}{8}'' = 1' - 0''$

LEGEND:
 — Indicates new construction
 - - - Indicates existing structure
 ▨ Indicates bridge removal (portion)

- NOTES:**
- For "SECTION A-A", "SECTION B-B", "SECTION C-C", and "BEARING PAD DETAIL" see "ABUTMENT RECONSTRUCTION DETAILS NO. 3" sheet.
 - For "SECTION D-D", "SECTION E-E", "SECTION F-F", and "SECTION G-G", see "ABUTMENT RECONSTRUCTION DETAILS NO. 4" sheet.
 - Bearing Pads shall be 10"x12"x2" (elastomer only) steel reinforced elastomeric bearing pads Tot 11, for details see "ABUTMENT DETAILS NO. 1" sheet.

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

DESIGN	BY R. Stiltz	CHECKED L. Wu
DETAILS	BY G. Hallstrom	CHECKED L. Wu
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

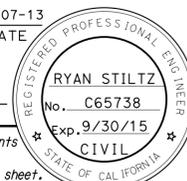
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

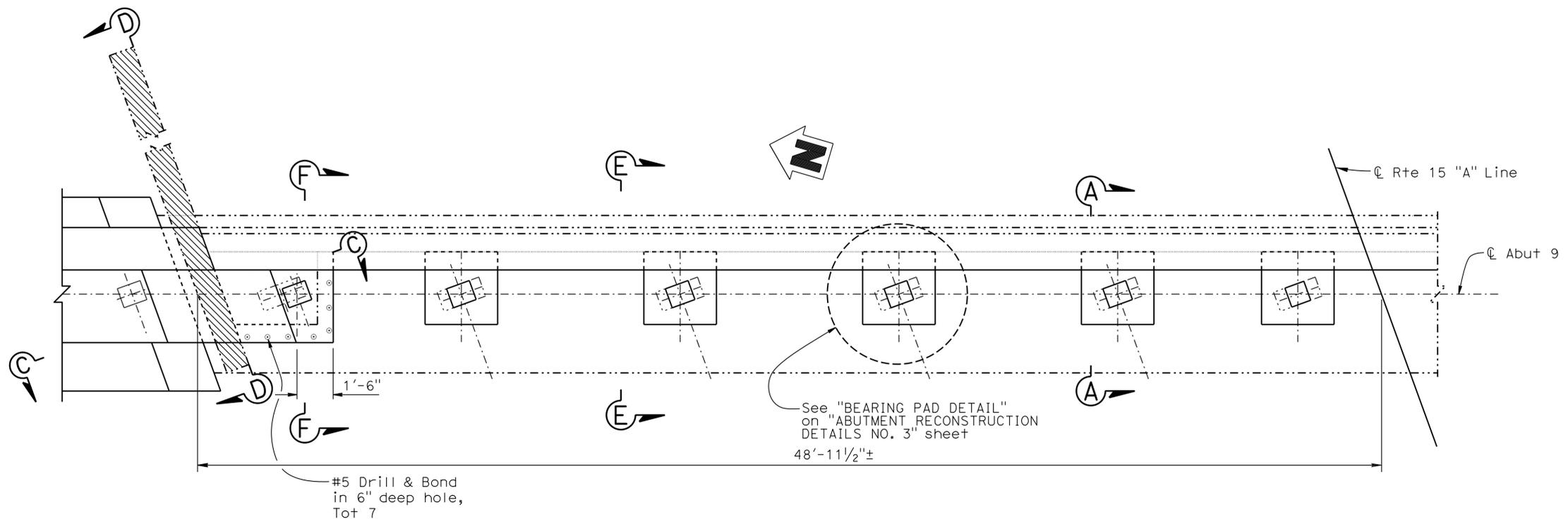
BRIDGE NO. 54-0483
 POST MILE 43.93

MOJAVE RIVER BRIDGE (WIDEN)
ABUTMENT RECONSTRUCTION DETAILS NO. 1

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:22

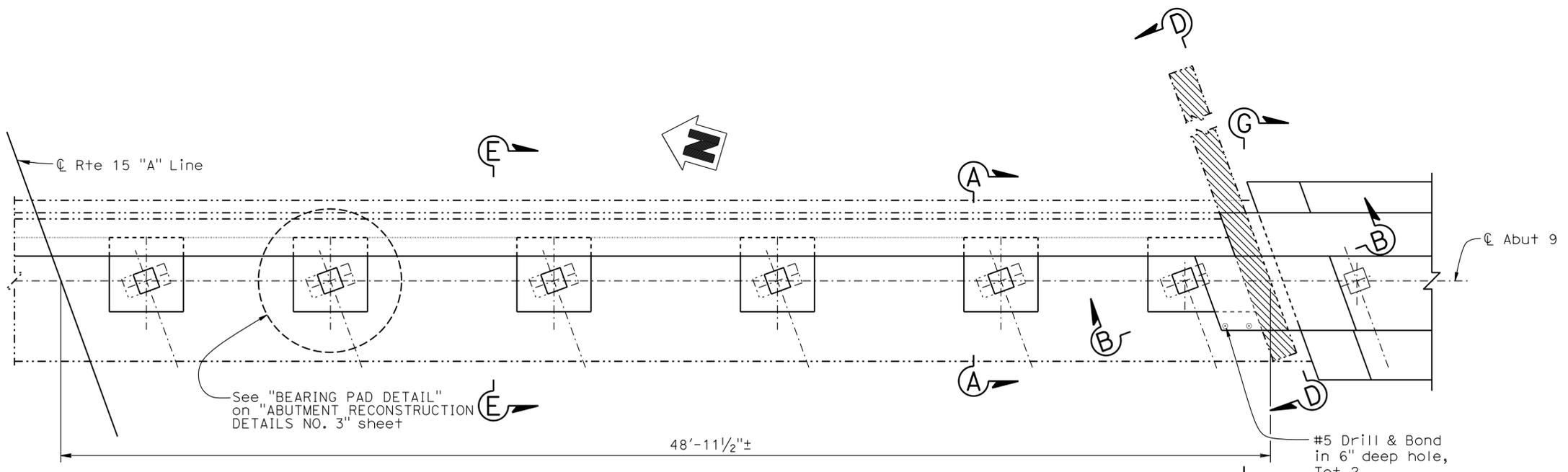
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	725	824


 11-07-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



PARTIAL PLAN ABUTMENT 9 LEFT

3/8"=1'-0"



PARTIAL PLAN ABUTMENT 9 RIGHT

3/8"=1'-0"

- LEGEND:**
- Indicates new construction
 - - - Indicates existing structure
 - ▨ Indicates bridge removal (portion)

- NOTES:**
1. For "SECTION A-A", "SECTION B-B", "SECTION C-C", and "BEARING PAD DETAIL", see "ABUTMENT RECONSTRUCTION DETAILS NO. 3" sheet.
 2. For "SECTION D-D", "SECTION E-E", "SECTION F-F", and "SECTION G-G", see "ABUTMENT RECONSTRUCTION DETAILS NO. 4" sheet.
 3. Bearing Pads shall be 10"x12"x2" (elastomer only) steel reinforced elastomeric bearing pads Tot 11, for details see "ABUTMENT RECONSTRUCTION DETAILS NO. 1" sheet.

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

DESIGN	BY R. Stiltz	CHECKED L. Wu
DETAILS	BY G. Hallstrom	CHECKED L. Wu
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

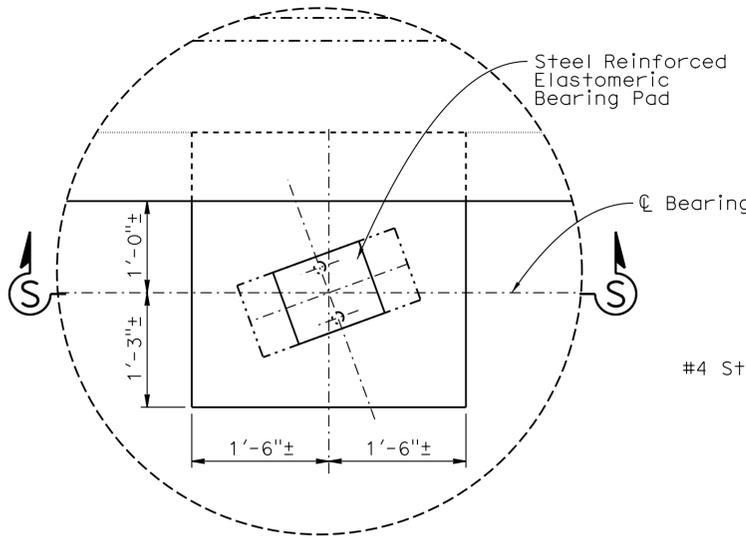
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	54-0483
POST MILE	43.93

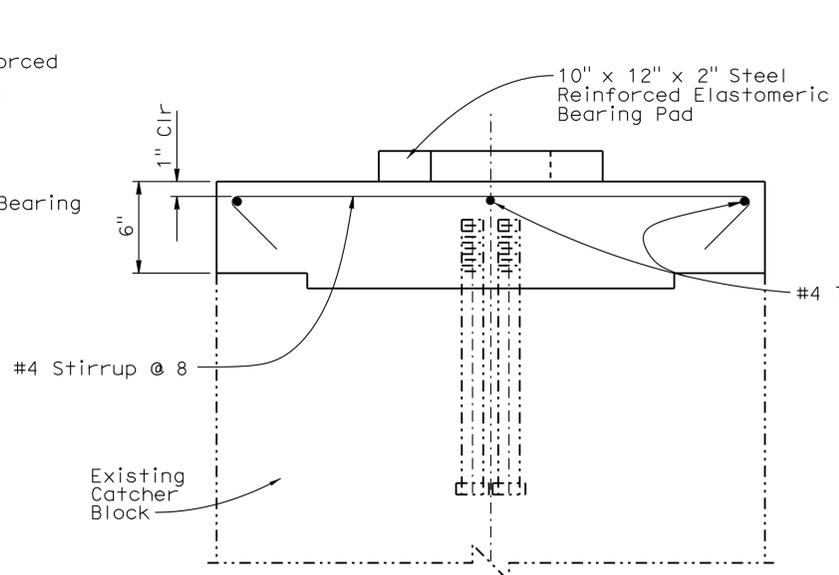
MOJAVE RIVER BRIDGE (WIDEN)
ABUTMENT RECONSTRUCTION DETAILS NO. 2

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:22

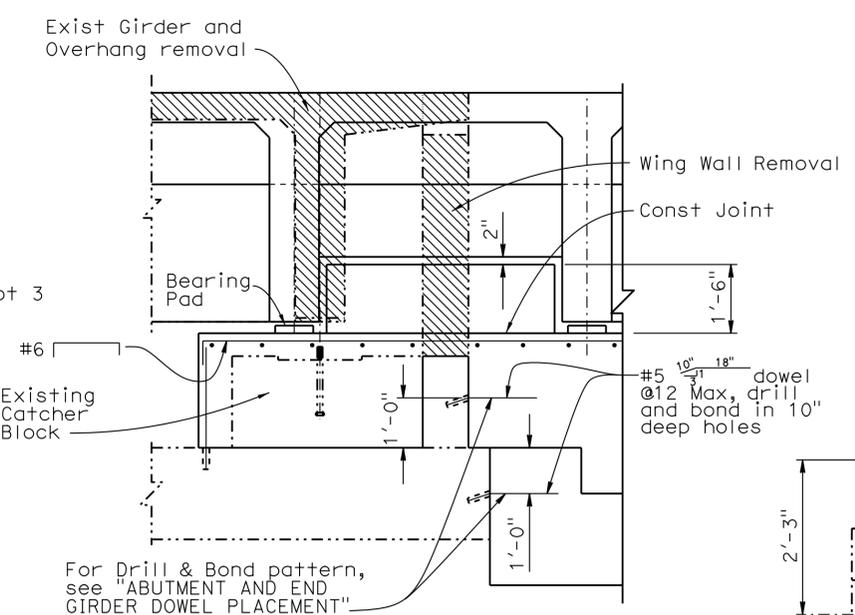
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	726	824
			11-07-13	REGISTERED PROFESSIONAL ENGINEER	
			6-23-14	PLANS APPROVAL DATE	
			RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



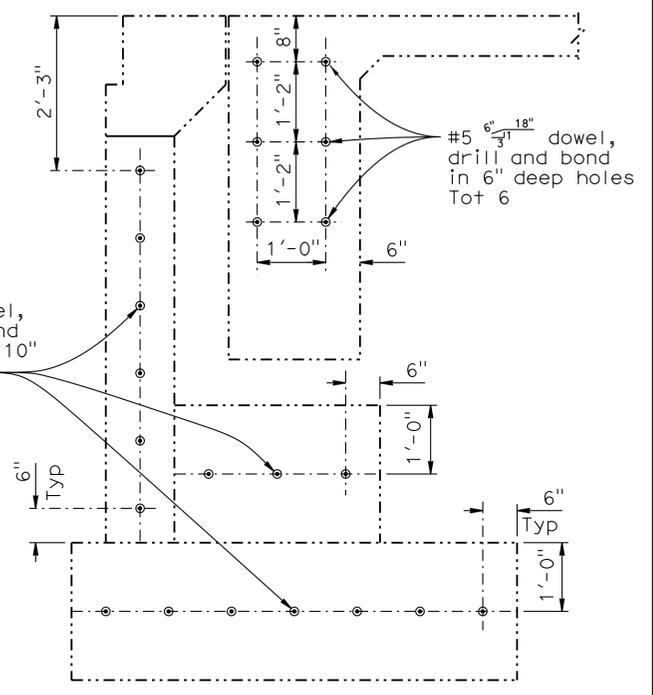
BEARING PAD DETAIL
1"=1'-0"



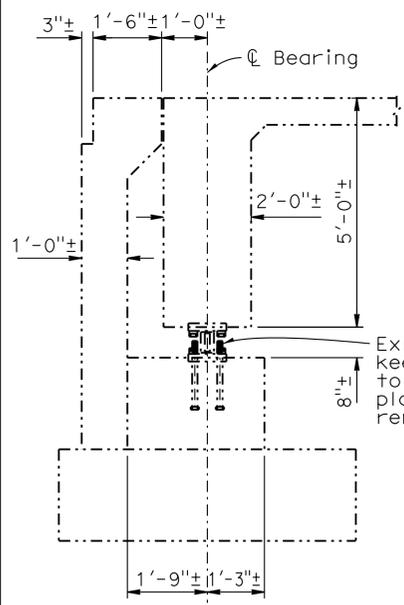
SECTION S-S
2"=1'-0"



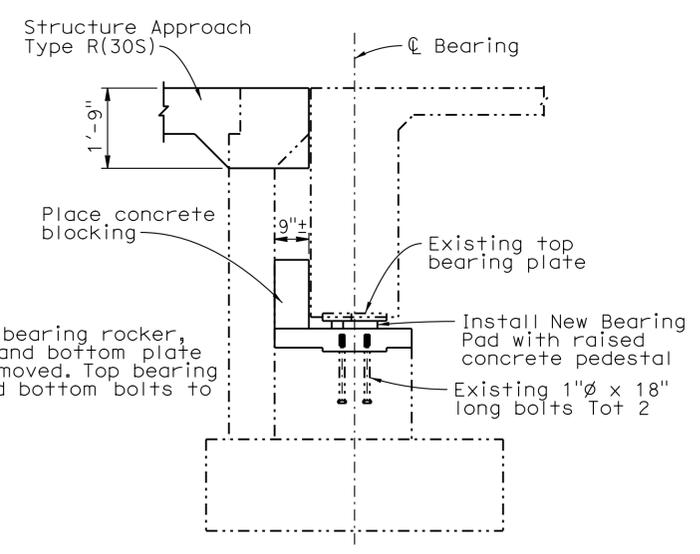
SECTION C-C
1/2"=1'-0"



ABUTMENT AND END GIRDER DOWEL PLACEMENT
3/4"=1'-0"



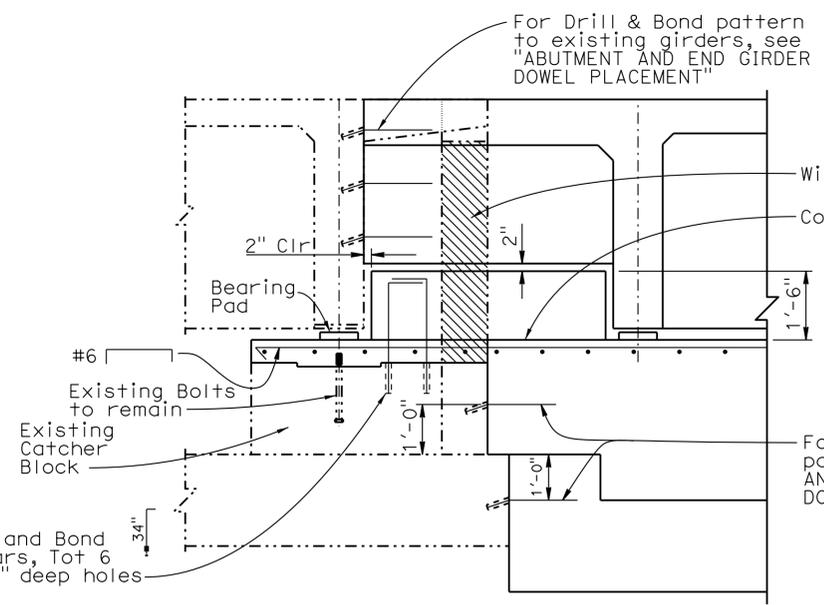
EXISTING



RECONSTRUCTION

NOTE: For reconstruction details, see "SECTION E-E" on "ABUTMENT RECONSTRUCTION DETAILS NO. 4" sheet.

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



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

For Drill & Bond pattern, see "ABUTMENT AND END GIRDER DOWEL PLACEMENT"

LEGEND:
 — Indicates new construction
 - - - Indicates existing structure
 ▨ Indicates bridge removal (portion)

NOTES:
 1. For location of "SECTION A-A", "SECTION B-B", and "SECTION C-C", see "ABUTMENT RECONSTRUCTION DETAILS NO. 1" and "ABUTMENT RECONSTRUCTION DETAILS NO. 2" sheets.

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

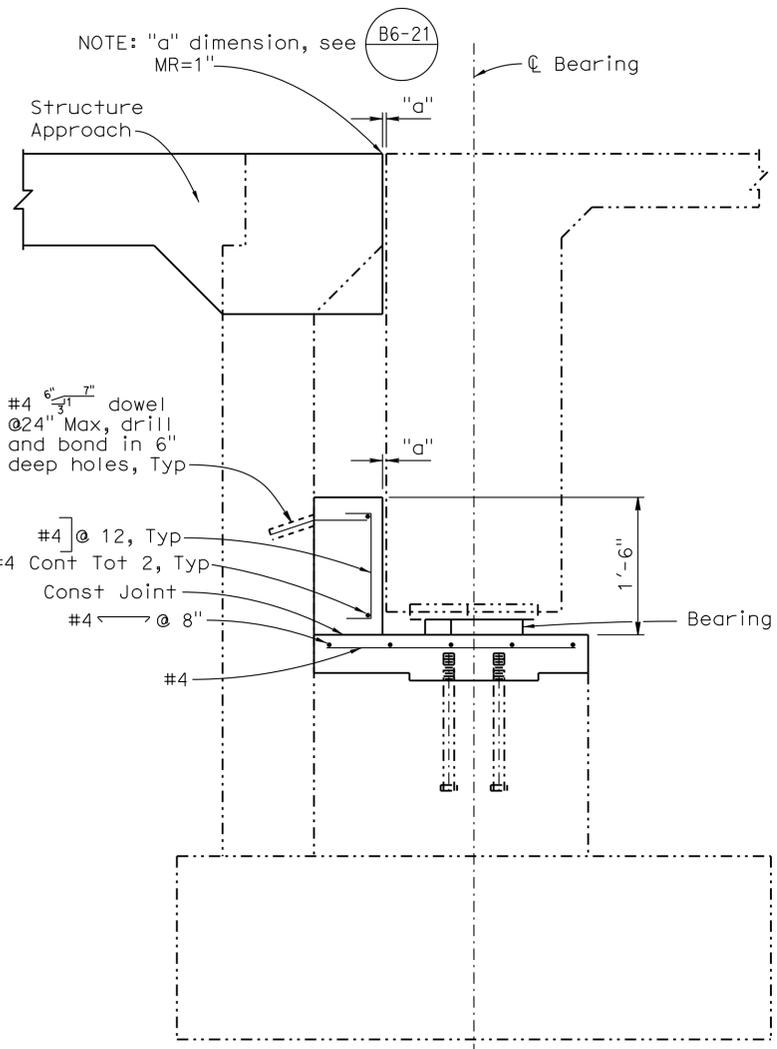
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY R. Stiltz	CHECKED L. Wu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0483	MOJAVE RIVER BRIDGE (WIDEN) ABUTMENT RECONSTRUCTION DETAILS NO. 3
	DETAILS	BY G. Hallstrom	CHECKED L. Wu			POST MILE	43.93	
	QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen			REVISION DATES	07-22-08 10-04-12 1-28-13 6-05-13 7-11-13 11-07-13	
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 31 OF 44

TIME PLOTTED => 12:22 USERNAME => s124496 DATE PLOTTED => 27-JUN-2014

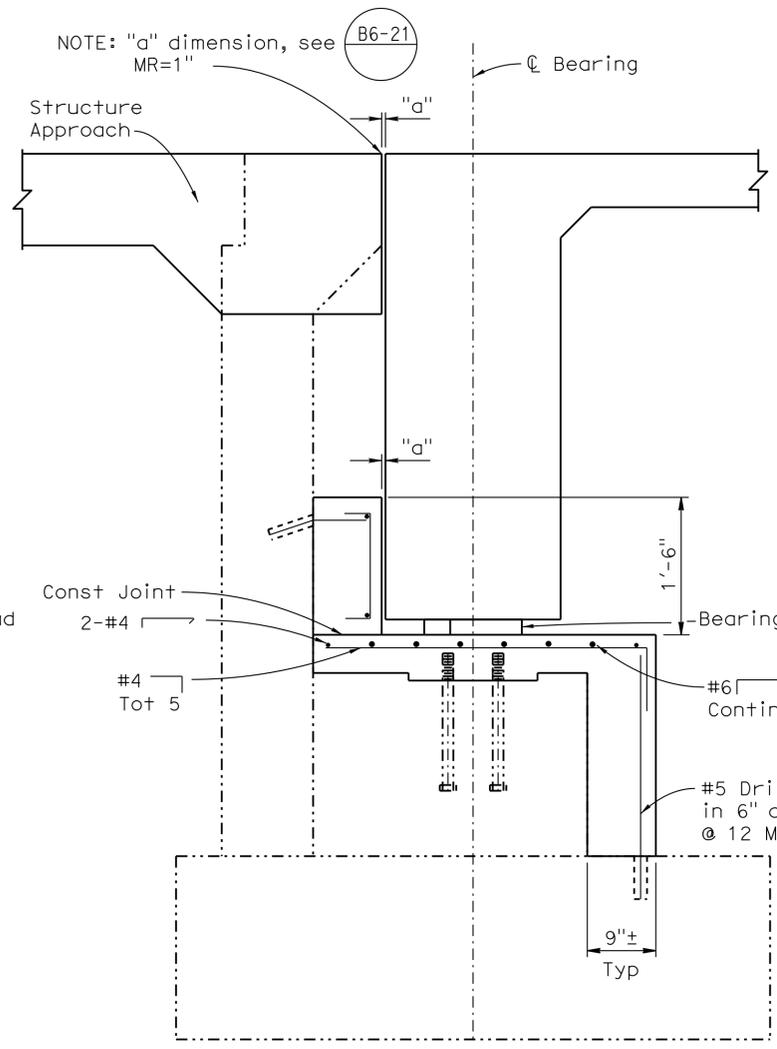
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	727	824

11-07-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

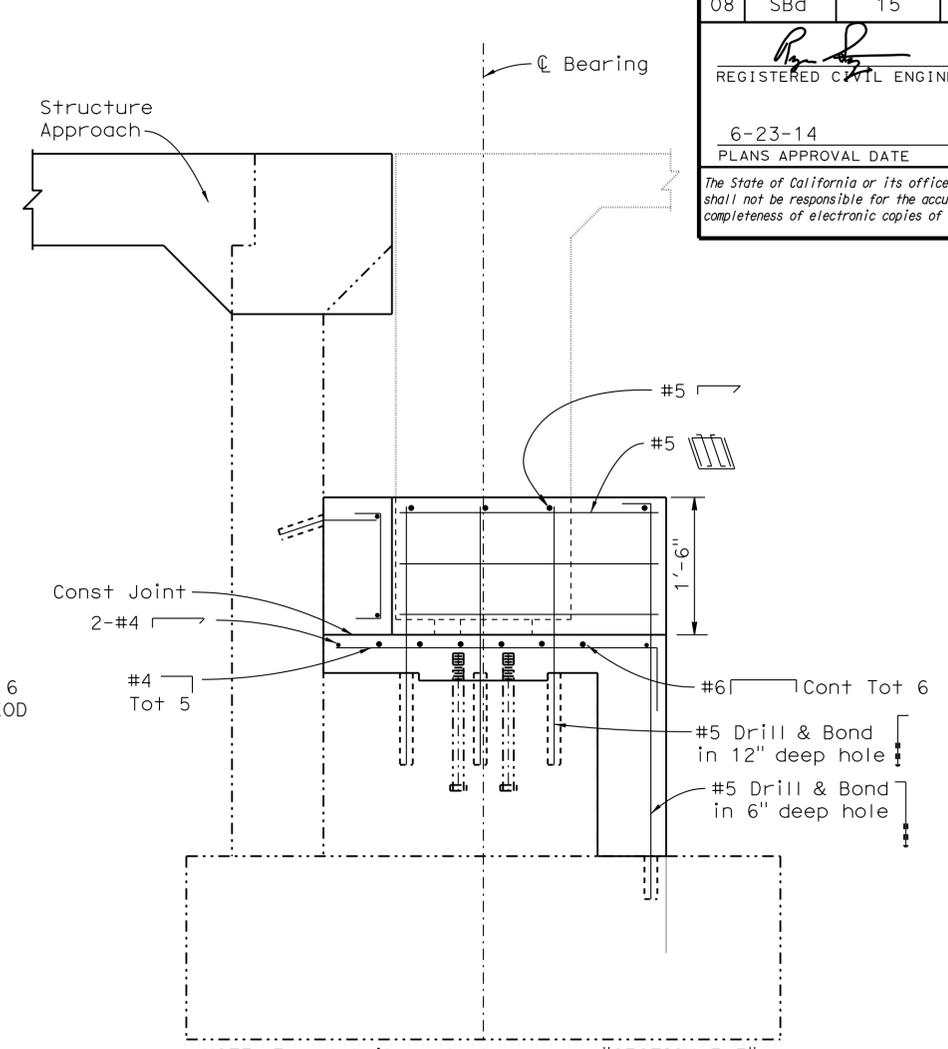
RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 CIVIL
 STATE OF CALIFORNIA



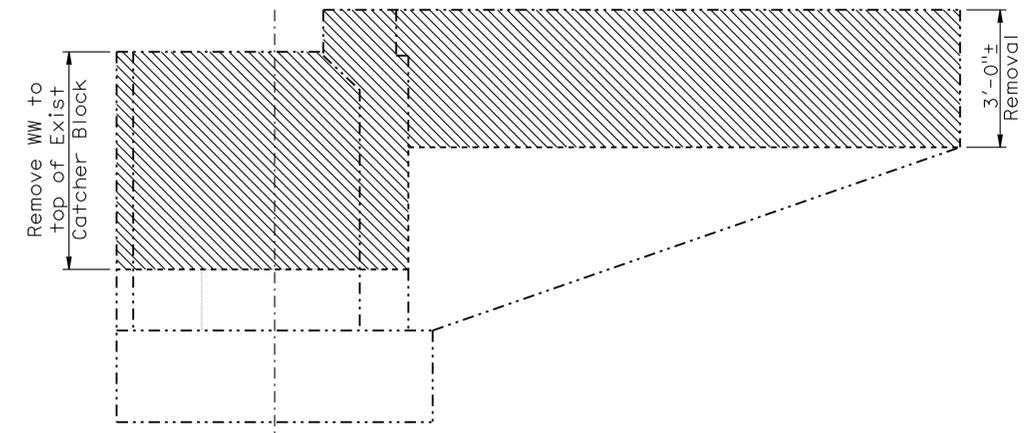
SECTION E-E
1"=1'-0"



NOTE: For details not shown, see "SECTION E-E".
SECTION F-F
1"=1'-0"



NOTE: For details not shown, see "SECTION E-E".
SECTION G-G
1"=1'-0"



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

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

TEMPORARY SUPPORT TABLE

Location	DL+LL+I (KIP)	DL (KIP)	LATERAL LOAD (KIP)
Abut 1	95	50	10
Abut 7	95	50	10

- LEGEND:
- Indicates new construction
 - Indicates existing structure
 - ▨ Indicates bridge removal (portion)

- NOTES:
- The jacking force shall be applied simultaneously to all jacks along the abutment to be jacked. Jacks shall be placed along girder @ at abutments.
 - The total vertical lift at the abutments shall be enough to release the existing bearings, but no greater than $\frac{1}{2}$ " above existing final grade.
 - Lower super structure onto elastomeric bearing pads after concrete has attained 100% compressive strength.

- NOTES:
- For location of "SECTION D-D", "SECTION E-E", "SECTION F-F", and "SECTION G-G", see "ABUTMENT RECONSTRUCTION DETAILS NO. 1" and "ABUTMENT RECONSTRUCTION DETAILS NO. 2" sheets.

DESIGN	BY R. Stiltz	CHECKED L. Wu
DETAILS	BY G. Hallstrom	CHECKED L. Wu
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen

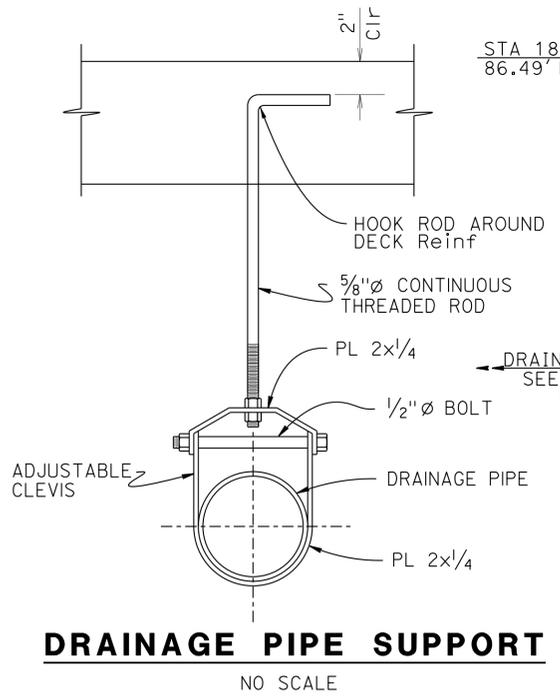
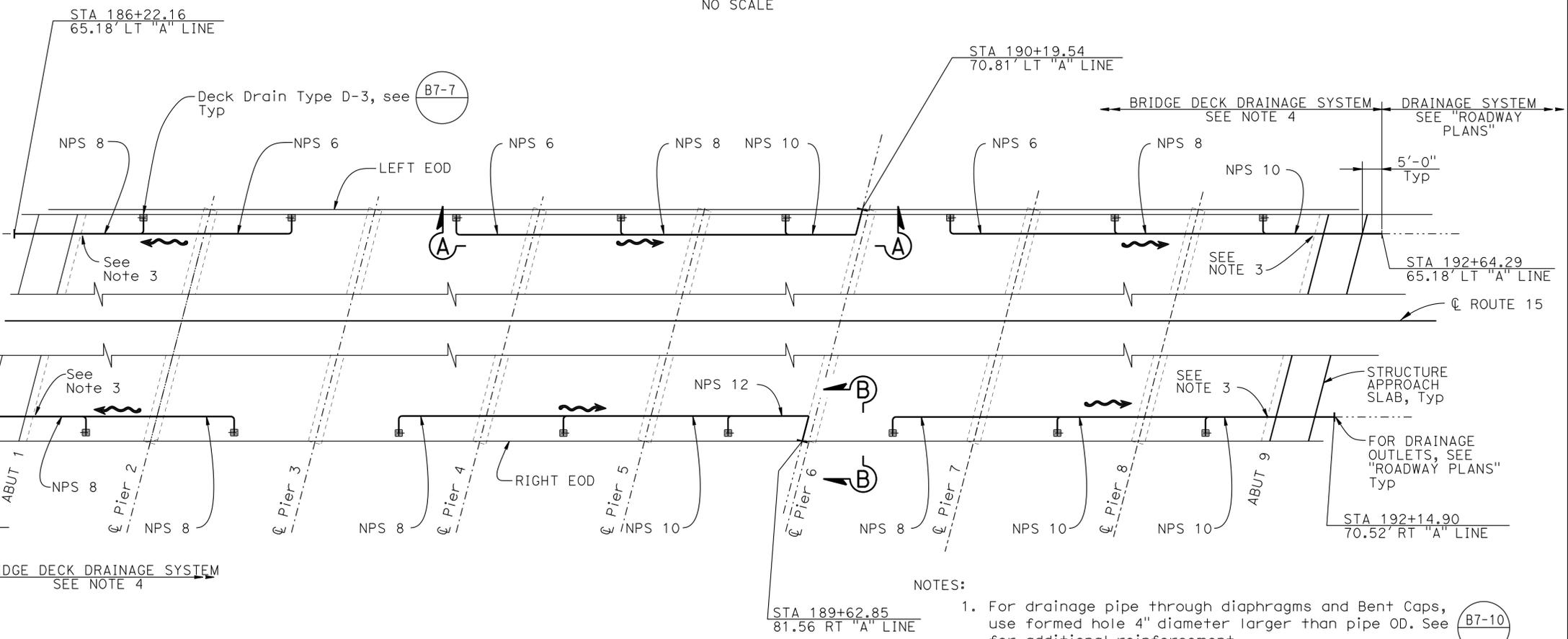
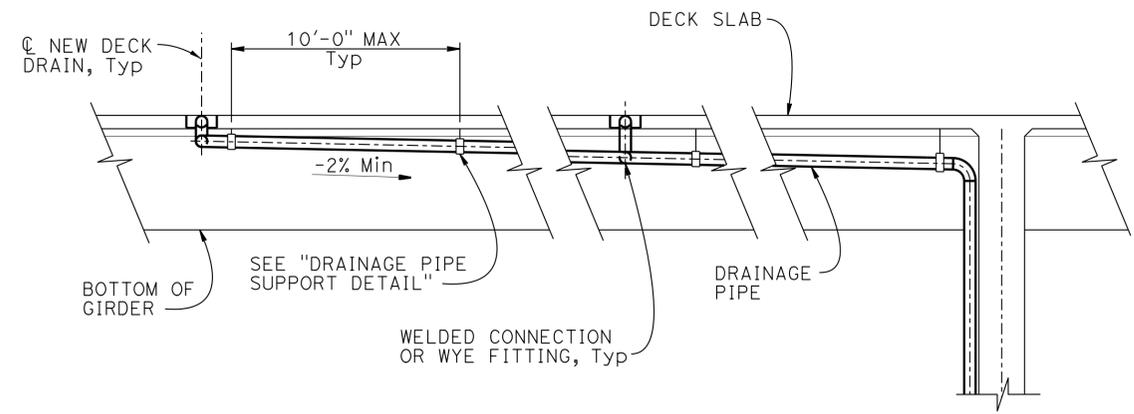
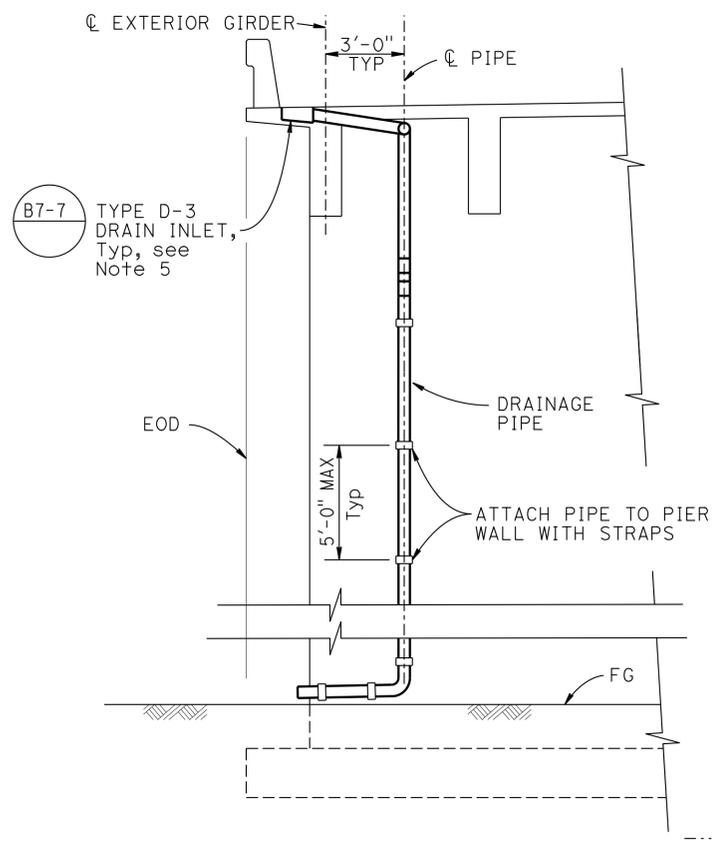
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO. 54-0483
POST MILE 43.93

MOJAVE RIVER BRIDGE (WIDEN)
ABUTMENT RECONSTRUCTION DETAILS NO. 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	728	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER RYAN STILTZ No. C65738 Exp. 9/30/15 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.

- NOTES:
- For drainage pipe through diaphragms and Bent Caps, use formed hole 4" diameter larger than pipe OD. See (B7-10)
 - Drainage Pipe shall be NPS 12 x 0.180", NPS 10 x 0.165", NPS 8 x 0.148" or NPS 6 x 0.135" as shown. For drainage details and notes not shown, see (B7-6) and (B7-7)
 - For drainage details at abutments, including expansion coupling and pipe casing, see (B7-8)
 - Limits of Bridge Deck Drainage System. For Details and payment beyond limits shown, see "ROADWAY PLANS"
 - All Deck Drains are located at \ominus span.

LEGEND:
 Indicates deck - drain flow direction

DESIGN	BY R. Stiltz	CHECKED L. Wu
DETAILS	BY G. Hallstrom	CHECKED L. Wu
QUANTITIES	BY D. Azzam	CHECKED A. McPhee/F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	54-0483	MOJAVE RIVER BRIDGE (WIDEN)
POST MILE	43.93	

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:22

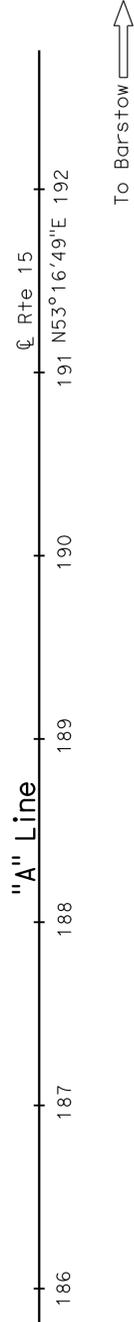
BENCH MARK

These well monument elevations are based off of BM 43.7-92, Elevation= 2697.606 ft. 2 inches brass disk stamped "State of California Division of Highways BM 43.70-92". 45.9 Ft. right of Station 178.5 ± Interstate I-5 NGVD 1929.

To San Bernardino

R-10-001

R-10-002



To Barstow

PLAN
1" = 50'

Station	Depth (ft)	Soil Description	Soil Classification
2720	2717.3'	6" Asphalt concrete pavement of road surface over well-graded SAND (SW); brown; dry.	
2710	311.4	Well-graded SAND with SILT (SW-SM); dense; light brown; moist; few fines; (FILL).	
2700	521.4	Well-graded SAND (SW); very dense; brown; moist; few fine GRAVEL.	
2690	471.4	Poorly-graded SAND with CLAY (SP-SC); dense; greenish brown; moist; mostly fine and medium; few coarse; trace fine GRAVEL; (NATIVE).	
2680	551.4	-medium dense; grayish brown; wet.	
2670	381.4	GWS Elev. 2681.1' Well-graded SAND (SW); medium dense; grayish brown; wet; little fines; trace fine GRAVEL.	
2660	241.4	Poorly-graded SAND with CLAY (SP-SC); medium dense; grayish brown; wet; mostly fine and medium; few coarse; trace fine GRAVEL.	
2650	371.4	Well-graded SAND with CLAY and GRAVEL (SW-SC); dense; grayish brown; wet; little well-graded GRAVEL; few fines.	
2640	381.4	Well-graded SAND with SILT and SAND (GW-GM); dense; grayish brown; wet; some well-graded SAND; few fines.	
2630	341.4	Well-graded SAND with SILT and GRAVEL (SW-SM); dense; grayish brown; wet; little well-graded GRAVEL; few fines.	
2620	361.4	SILTY SAND (SM); dense; grayish brown; wet; well-graded SAND; little fines; few fine GRAVEL.	
2610	521.4	-very dense; mostly fine; trace GRAVEL.	
2600	591.4	-mostly fine and medium.	
2590	391.4	Well-graded SAND with CLAY and GRAVEL (SW-SC); dense; grayish brown; wet; few fines; trace fine GRAVEL.	
2580	551.4	-very dense; little fines; few GRAVEL.	
2570	561.4	SILTY SAND (SM); dense; grayish brown; wet; medium to fine SAND; little fines; trace GRAVEL.	
2560	431.4	-very dense; well-graded SAND; few fine GRAVEL.	
2550	491.4	-dense; brown; trace fine GRAVEL.	
2540	391.4	-very dense; few fine GRAVEL.	
	741.4	-medium and fine SAND.	
	461.4	-trace fine GRAVEL.	
	521.4	-few fine GRAVEL.	
	631.4	-some fines.	
	851.4		
	751.4		
	821.4		
	681.4		
	701.4		
	821.4		
	1001.4		
	831.4		
	801.4		
2540	4-28-10	Terminated at Elev 2545.8"	
		ERI = 68%	

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

186+00

187+00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	729	824

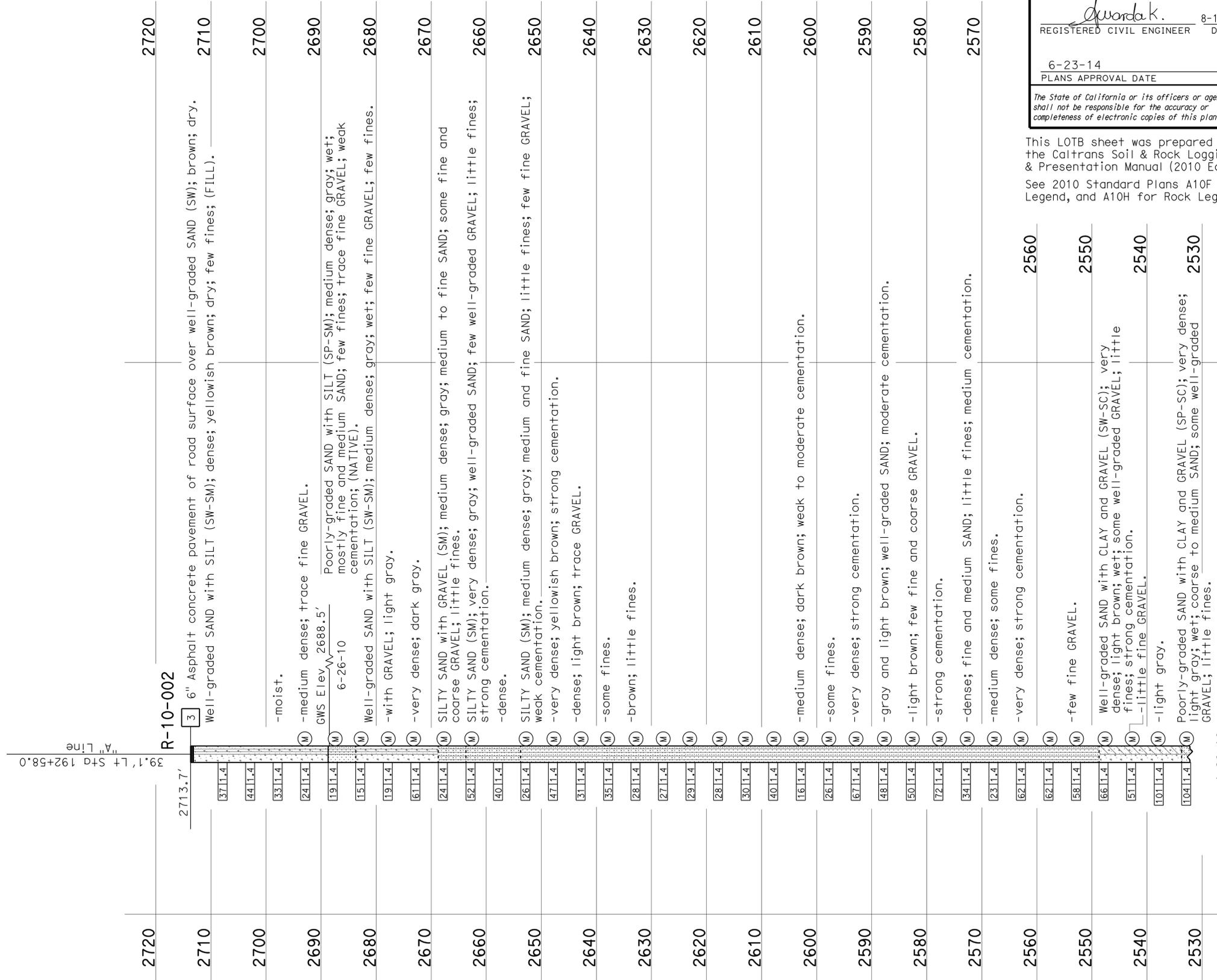
REGISTERED CIVIL ENGINEER
DATE: 8-14-13
PLANS APPROVAL DATE: 6-23-14

Hassan Ibrahim
No. C59016
Exp. 6-30-15
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.

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: LOTB sheets from 3 of 11 to 10 of 11, are based on the Soil & Rock Logging Classification Manual (Field Guide) August 1996.

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 11"



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

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.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	730	824

Asef Wardak
 REGISTERED CIVIL ENGINEER
 No. C61960
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA

8-14-13 DATE
 6-23-14 PLANS APPROVAL DATE

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

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		MOJAVE RIVER BRIDGE (WIDEN)	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		54-0483		LOG OF TEST BORINGS 2 OF 11	
NAME: A. Perez-Cobo		CHECKED BY: S. Logeswaran		FIELD INVESTIGATION BY: A. Wardak		DESIGN BRANCH 10		POST MILE			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 08140000861		CONTRACT NO.: 08-3555V1		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
		0 1 2 3		Terminated at Elev 2533.7' ERI = 68%		192+00		194+00		REVISION DATES	
								01-28-13 02-17-13 03-01-13		SHEET 35 OF 44	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	731	824

REGISTERED CIVIL ENGINEER *Hassan Ibrahim* DATE 8-14-13
 PLANS APPROVAL DATE 6-23-14
 No. C59016 Exp. 6-30-15
 CIVIL ENGINEER
 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.

BENCH MARK

BM Elev 2718.889'
 N 616469.644 E 2064601.085
 Caltrans aerial target #1-8, nail
 in asphalt on right shoulder of
 northbound I-15

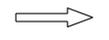
TO SAN BERNARDINO



☉ RTE 15

"A" Line
N53°16'49"E

TO BARSTOW



B-3-01
3.7

B-18-01
B-17-01
B-2-01

B-16-01
B-14-01
B-4-01

B-13-01
3.7

B-12-01
3.7

B-19-01

B-7-01
3.7

B-20-01

B-8-01
3.7

B-9-01
3.7

B-5-01
3.7

B-6-01
3.7

Mojave River

B-10-01
3.7

B-11-01
3.7

B-1-01
4

PLAN
1" = 50'

GPS SURVEY NOTES

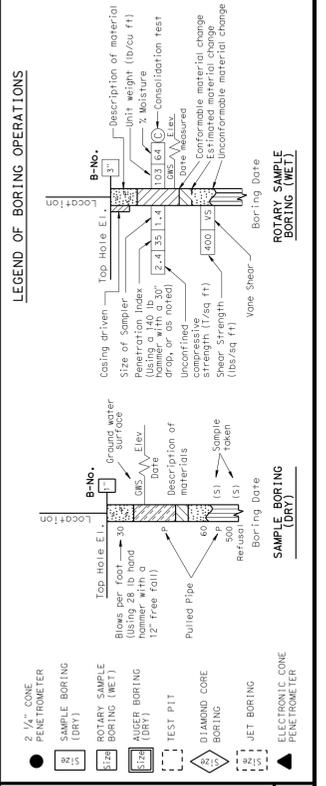
Test Boring collar position and elevation data has acquired by Differential Global Positioning System methods utilizing a Trimble 12-Channel Pro XRGPS with Minimum Shift Key (MSK) beacon receiver with applied real time differential correction. Horizontal datum : U.S. State Plane 1983 High Precision Geodetic Network (HPGN)

Projection	Zone	
California State Plane Coordinate System	5	
Boring Number	(N) Coordinate	(E) Coordinate
B-1-01	616692.685	2064795.885
B-2-01	616532.026	2064706.510
B-3-01	616496.053	2064671.152
B-4-01	616560.871	2064743.180
B-5-01	616605.484	2064729.150
B-6-01	616617.208	2064727.563
B-7-01	616574.136	2064688.918
B-8-01	616604.509	2064687.583
B-9-01	616595.539	2064665.938
B-10-01	616645.364	2064755.149
B-11-01	616643.181	2064783.874
B-12-01	616606.170	2064800.878
B-13-01	616585.486	2064774.194
B-14-01	616564.448	2064749.462
B-15-01	616613.711	2064740.071
B-16-01	616553.001	2064732.427
B-17-01	616539.325	2064713.315
B-18-01	616526.572	2064696.005
B-19-01	616567.237	2064674.049
B-20-01	616595.558	2064678.743

NOTES:

- The descriptions and classifications of rock and/or soil, including consistency and relative density descriptors, used by the field and/or office personnel for the exploration boreholes shown on this sheet are based on the "Soil and Rock Logging Classification Manual (Field Guide)," Engineering Service Center, Office of Structural Foundations, August 1996.
- Soil colors were determined by using Munsel Soil Color Charts (1994, Revised Edition). Rock colors were determined using Geological Society of America rock color charts (1995, 8th Printing).
- Ground water was measured in borings B-4-01, B-5-01, and B-6-01. Please refer to those borings for ground water measurements. No attempt was made to measure ground water in borings B-7-01 through B-20-01. Those borings were backfilled immediately after completion of drilling.
- The ground water levels indicated in the Log of Test Borings (LOBT) sheets reflect the measured ground water levels measurement in the boreholes on the specified dates. Ground water surface elevations are subject to seasonal fluctuations and will be encountered at higher or lower elevations depending on conditions at time of constructions.
- Test boring B-1-01 utilized a safety hammer to advance the sampler using a 140 lb hammer with a 30" drop. Penetration index values shown are the actual blow counts recorded in the field. Soil descriptions shown on the LOTB sheets for those borings are based on these index values.
- Test boring B-2-01 and B-4-01 through B-13-01 utilized a Dietrich auto hammer to advance the sampler using a 140 lb hammer with a 30" drop. Penetration index values shown are the actual blow counts recorded in the field. Soil Consistency Classifications for those borings are based on a conversion factor of 1.5 times the blow count.
- The boring B-3-01 utilized a safety hammer from the top of the down to Elev 2666.3' and a Dietrich auto hammer from Elev 2666.3' to the bottom of the boring, to advance the sampler using a 140 lb hammer with a 30" drop. Penetration index values shown are the actual blow counts recorded in the field. Soil consistency classifications shown on the LOTB sheet for boring B-3-01, from the top of the boring down to Elev 2666.3', are based on the actual blow counts recorded on the field, and from Elev 2666.3' to bottom of the boring are based on a conversion factors of 1.5 times the field blow count.
- E = Blow count for 1' penetration extrapolated from blow count for less than 1' (due to change in material or hard driving).
- Borings B-14-01 through B-20-01 were 2.24" diameter cone penetration borings, advanced using a Mobile 3000 hydraulic operated hoe ram. Due to the variability of the energy output of the Mobile 3000 rig, the rig was only used to estimate the depth to very dense earth material.

LEGEND OF BORING OPERATIONS



LEGEND OF EARTH MATERIALS

GRAVEL	CLAYEY SILT
SAND	PEAT and/or ORGANIC MATTER
SILT	COBBLES and/or BOULDERS
CLAY	IGNEOUS ROCK
SANDY CLAY or CLAYEY SAND	SEDIMENTARY ROCK
SANDY SILT or SILTY SAND	METAMORPHIC
SILTY CLAY	

CONSISTENCY CLASSIFICATION FOR SOILS

SPT Blow Count (Blows/foot)	Consistency
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
51-100	Very Dense
>100	Hard

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.

ENGINEERING SERVICES	MATERIALS & GEOTECHNICAL SVCS
DRAWN BY I. G. Remmen	CHECKED BY A. Wardak

FIELD INVESTIGATION BY:
 E. Neupert, F. Gerami

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.
54-0483
 POST MILE
43.93

MOJAVE RIVER BRIDGE (WIDEN)
LOG OF TEST BORINGS 3 OF 11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	732	824

8-14-13
 REGISTERED CIVIL ENGINEER DATE

6-23-14
 PLANS APPROVAL DATE

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



FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 3 OF 11"

LEGEND OF BORING OPERATIONS

2 1/4" CONE PENETROMETER

POSTRY SAMPLE BORING (WE')

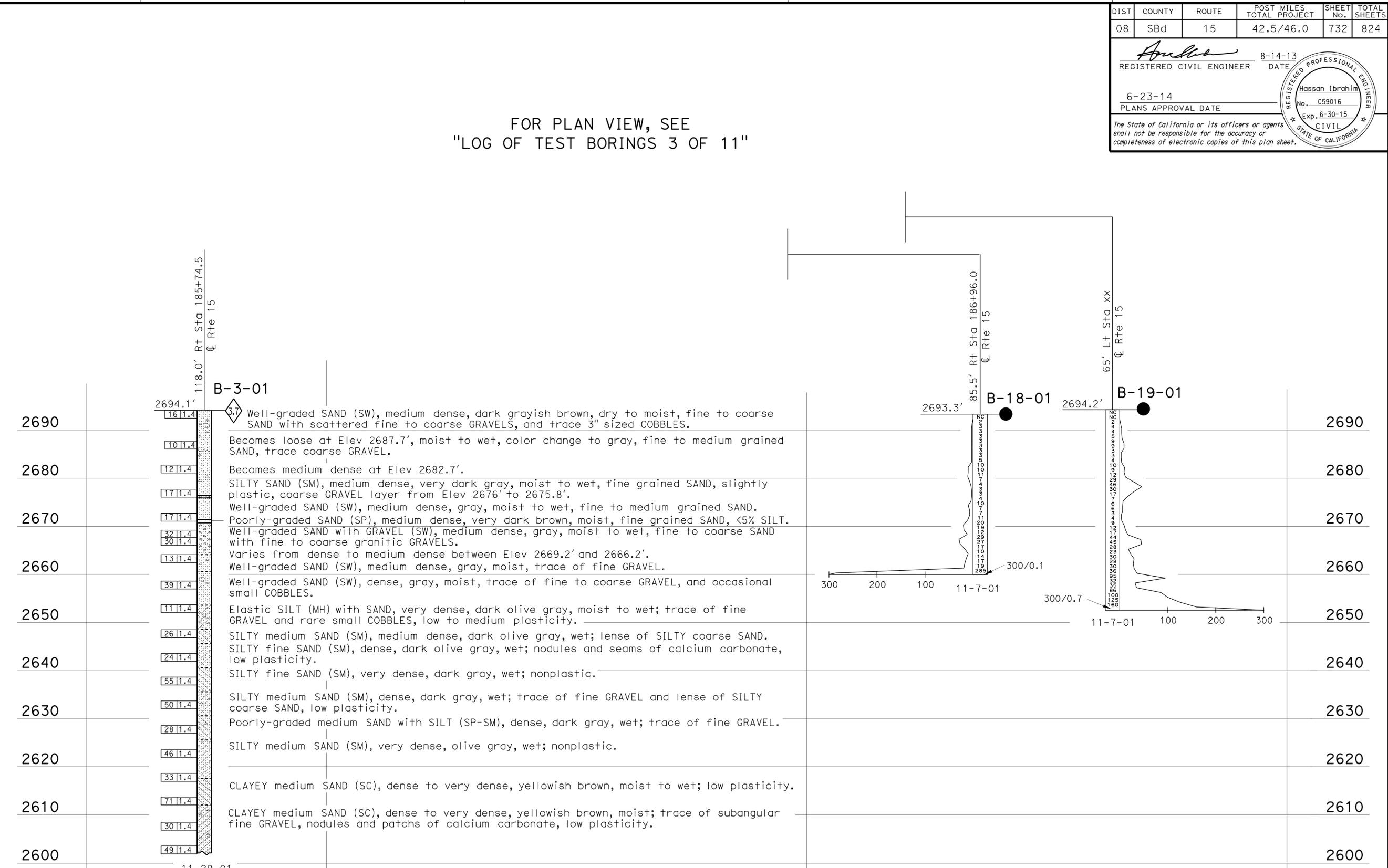
POSTRY SAMPLE BORING (WE'LT)

POSTRY BORING (WE'RY)

LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

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.



2690	161.4	Well-graded SAND (SW), medium dense, dark grayish brown, dry to moist, fine to coarse SAND with scattered fine to coarse GRAVELS, and trace 3" sized COBBLES.	2690
2680	121.4	Becomes loose at Elev 2687.7', moist to wet, color change to gray, fine to medium grained SAND, trace coarse GRAVEL.	2680
2670	171.4	SILTY SAND (SM), medium dense, very dark gray, moist to wet, fine grained SAND, slightly plastic, coarse GRAVEL layer from Elev 2676' to 2675.8'.	2670
2660	321.4	Well-graded SAND (SW), medium dense, gray, moist to wet, fine to medium grained SAND.	2660
2650	111.4	Poorly-graded SAND (SP), medium dense, very dark brown, moist, fine grained SAND, <5% SILT. Well-graded SAND with GRAVEL (SW), medium dense, gray, moist to wet, fine to coarse SAND with fine to coarse granitic GRAVELS.	2650
2640	241.4	Varies from dense to medium dense between Elev 2669.2' and 2666.2'. Well-graded SAND (SW), medium dense, gray, moist, trace of fine GRAVEL.	2640
2630	501.4	Well-graded SAND (SW), dense, gray, moist, trace of fine to coarse GRAVEL, and occasional small COBBLES.	2630
2620	281.4	Elastic SILT (MH) with SAND, very dense, dark olive gray, moist to wet; trace of fine GRAVEL and rare small COBBLES, low to medium plasticity.	2620
2610	711.4	SILTY medium SAND (SM), medium dense, dark olive gray, wet; lense of SILTY coarse SAND. SILTY fine SAND (SM), dense, dark olive gray, wet; nodules and seams of calcium carbonate, low plasticity.	2610
2600	491.4	SILTY fine SAND (SM), very dense, dark gray, wet; nonplastic. SILTY medium SAND (SM), dense, dark gray, wet; trace of fine GRAVEL and lense of SILTY coarse SAND, low plasticity. Poorly-graded medium SAND with SILT (SP-SM), dense, dark gray, wet; trace of fine GRAVEL. SILTY medium SAND (SM), very dense, olive gray, wet; nonplastic. CLAYEY medium SAND (SC), dense to very dense, yellowish brown, moist; trace of subangular fine GRAVEL, nodules and patches of calcium carbonate, low plasticity.	2600

ENGINEERING SERVICES	MATERIALS & GEOTECHNICAL SVCS	FIELD INVESTIGATION BY:	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	MOJAVE RIVER BRIDGE (WIDEN)
DRAWN BY	I. G. Remmen	E. Neupert	DEPARTMENT OF TRANSPORTATION	STRUCTURE DESIGN	54-0483	LOG OF TEST BORINGS 4 OF 11
CHECKED BY	A. Wardak			DESIGN BRANCH 10	POST MILE	
					43.93	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	734	824

REGISTERED CIVIL ENGINEER *Hassan Ibrahim* DATE 8-14-13
 PLANS APPROVAL DATE 6-23-14
 No. C59016 Exp. 6-30-15
 CIVIL ENGINEER
 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 3 OF 11"

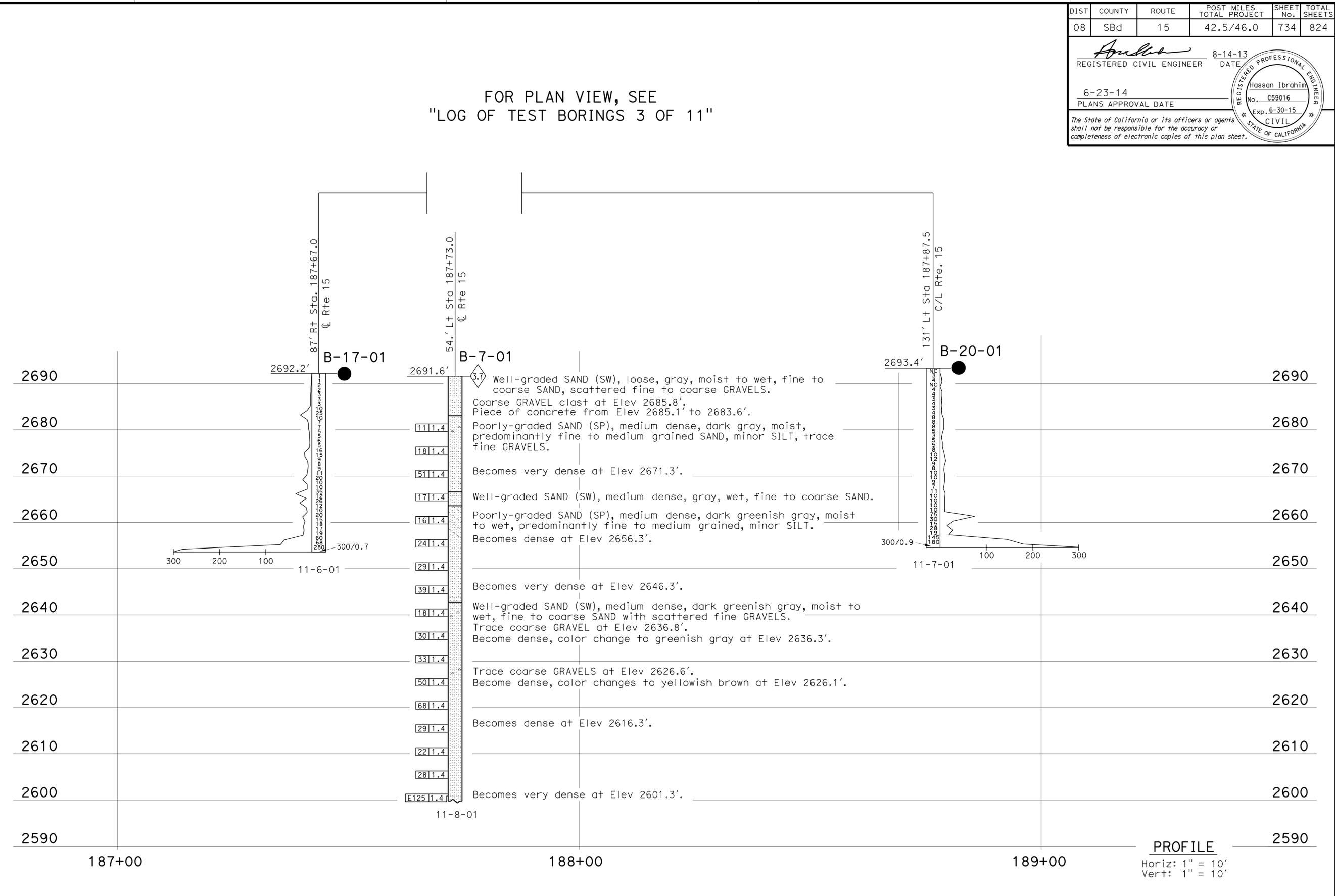
LEGEND OF BORING OPERATIONS

2 1/4" CONE PENETROMETER

LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

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.



ENGINEERING SERVICES		MATERIALS & GEOTECHNICAL SVCS		FIELD INVESTIGATION BY: E. Neupert, F. Gerami	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0483 POST MILE 43.93	MOJAVE RIVER BRIDGE (WIDEN) LOG OF TEST BORINGS 6 OF 11
DRAWN BY I. G. Remmen	CHECKED BY A. Wardak							

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 3 OF 11"

LEGEND OF BORING OPERATIONS

2 1/4" CONE PENETROMETER

LEGEND OF EARTH MATERIALS

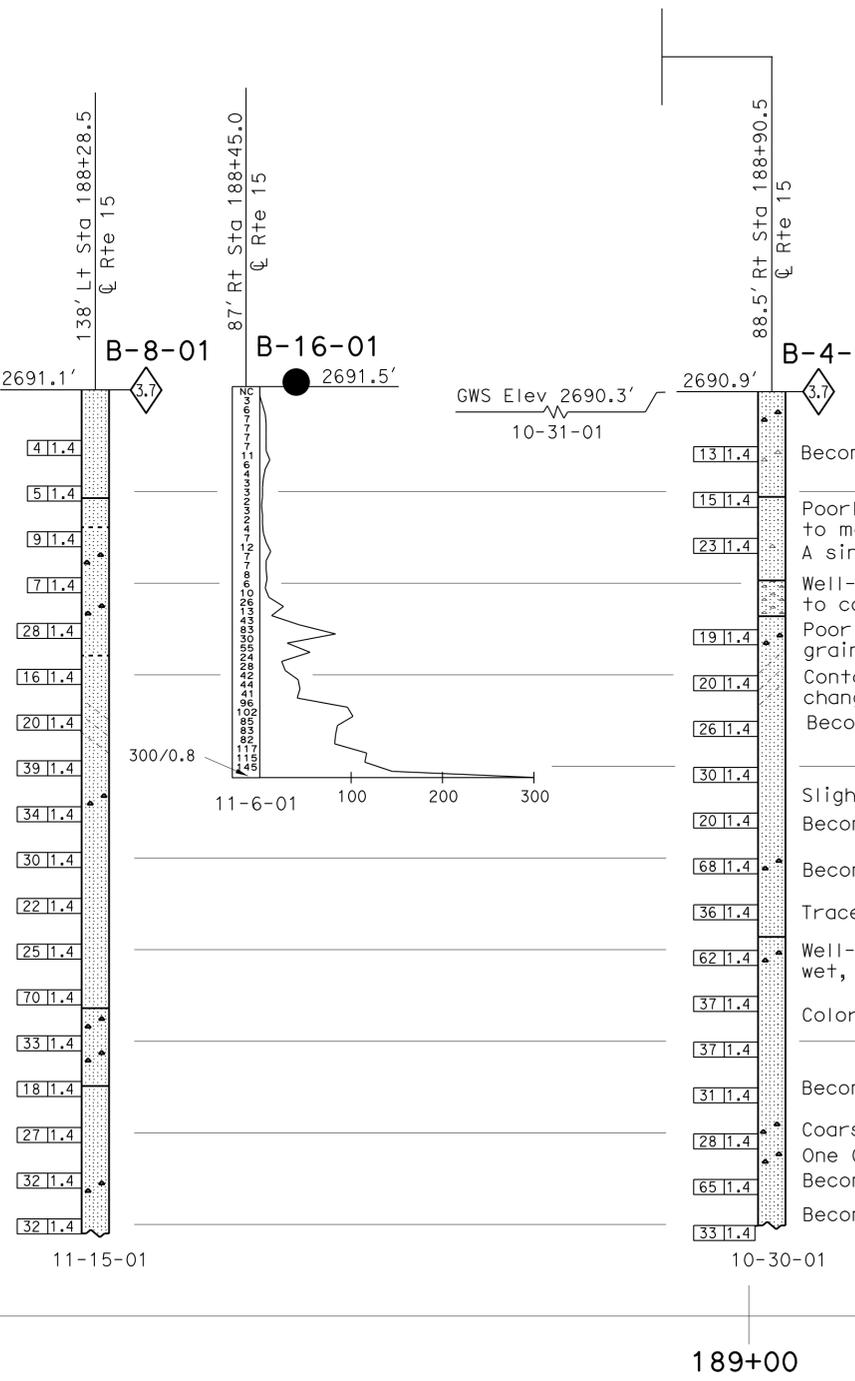
CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

SPT No./Blows (ft)	Soil Description	Consistency
0-4	Very Loose	Very Soft
5-10	Loose	Soft
11-30	Medium Dense	Medium Stiff
31-50	Dense	Stiff
51-100	Very Dense	Very Stiff
101-150	Very Dense	Very Stiff
151-200	Very Dense	Very Stiff
201-300	Very Dense	Very Stiff
301-400	Very Dense	Very Stiff
401-500	Very Dense	Very Stiff
501-600	Very Dense	Very Stiff
601-700	Very Dense	Very Stiff
701-800	Very Dense	Very Stiff
801-900	Very Dense	Very Stiff
901-1000	Very Dense	Very Stiff

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.

2690	Well-graded SAND (SW), loose, gray, moist to wet, fine to coarse SAND.
2680	Poorly-graded SAND (SP), loose, dark gray, moist to wet, predominantly fine grained with some medium grained SAND. Well-graded SAND (SW), medium dense, gray, moist to wet, fine to coarse SAND with trace fine to coarse GRAVELS.
2670	Becomes dense at Elev 2665.6'.
2660	Poorly-graded SAND (SP), medium dense, dark greenish gray, wet, predominantly fine to medium grained with trace coarse SAND.
2650	Minor amount of SILT content at Elev 2655.6'.
2640	Becomes very dense at Elev 2645.6', trace coarse GRAVEL.
2630	Becomes dense at Elev 2640.6'.
2620	Color changes to dark yellowish brown at Elev 2629.6'. Becomes very dense at Elev 2625.6'.
2610	Well-graded SAND (SW), dense, yellowish brown, moist to wet, fine to coarse SAND, trace fine GRAVELS.
2600	Poorly-graded SAND (SP), medium dense, yellowish brown, moist to wet, predominantly fine to medium grained. Becomes dense at Elev 2610.6'.
2590	Trace fine GRAVELS at Elev 2604.1'.



2690	Well-graded SAND (SW), very loose, gray, moist to wet, fine to coarse grained SAND with scattered fine GRAVELS. Becomes medium dense, color changes to dark gray at Elev 2684.4'.	2690
2680	Poorly-graded SAND (SP), medium dense, gray, moist to wet, fine to medium grained SAND. A single coarse granitic GRAVEL piece at Elev 2673.9'.	2680
2670	Well-graded SAND with GRAVEL (SW), dense, gray, moist to wet, fine to coarse SAND and GRAVELS.	2670
2660	Poorly-graded SAND (SP), medium dense, gray, moist to wet, fine grained SAND, trace fine to coarse GRAVEL. Contains minor SILT between Elev 2659.9' and 2658.9', color changes to dark greenish gray at Elev 2659.9', no GRAVELS. Becomes dense at Elev 2654.9', minor SILT.	2660
2650	Slightly increase in grain size between Elev 2647.9' and 2646.4'. Becomes medium dense at Elev 2644.9'.	2650
2640	Becomes very dense at Elev 2639.9', trace fine GRAVELS.	2640
2630	Trace yellowish brown mottling at Elev 2634.9'	2630
2620	Well-graded SAND (SW), very dense, dark yellowish brown, moist to wet, fine to medium SAND with trace fine to coarse GRAVELS. Color changes to yellowish brown at Elev 2623.4'.	2620
2610	Becomes dense at Elev 2614.9'.	2610
2600	Coarse granitic GRAVELS at Elev 2610.2' to 2609.9'. One 0.03" coarse GRAVEL piece at Elev 2607.9'. Becomes very dense at Elev 2604.9'.	2600
2590	Becomes dense at Elev 2599.9'.	2590

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

ENGINEERING SERVICES	MATERIALS & GEOTECHNICAL SVCS	FIELD INVESTIGATION BY: E. Neupert, F. Gerami	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0483 POST MILE 43.93	MOJAVE RIVER BRIDGE (WIDEN) LOG OF TEST BORINGS 7 OF 11
DRAWN BY I. G. Remmen	CHECKED BY A. Wardak					

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	736	824

8-14-13
 REGISTERED CIVIL ENGINEER DATE

6-23-14
 PLANS APPROVAL DATE

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



FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 3 OF 11"

LEGEND OF BORING OPERATIONS

LEGEND OF EARTH MATERIALS

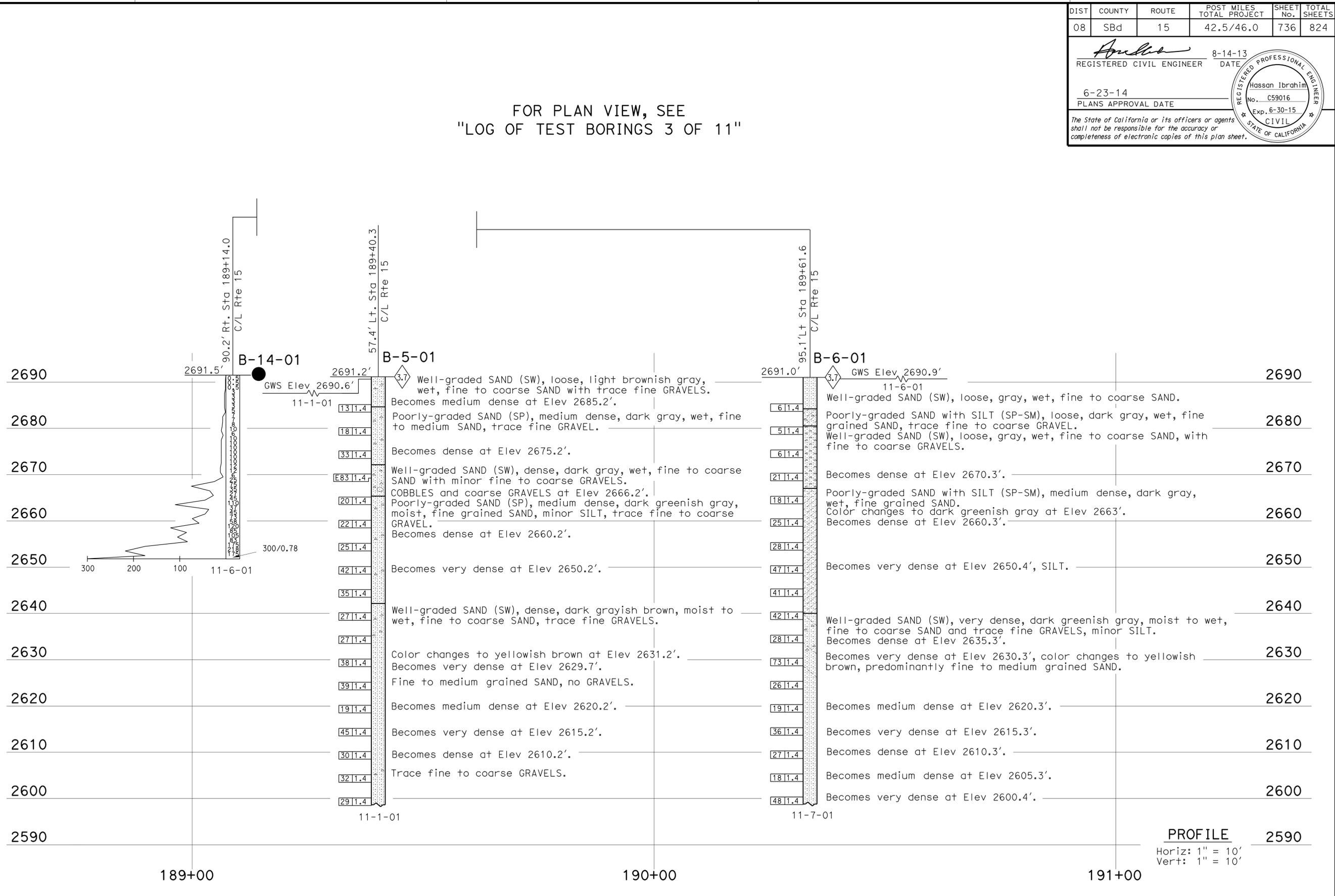
CONSISTENCY CLASSIFICATION FOR SOILS

LEGEND OF BORING OPERATIONS

LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

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.



ENGINEERING SERVICES		MATERIALS & GEOTECHNICAL SVCS		FIELD INVESTIGATION BY:	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	MOJAVE RIVER BRIDGE (WIDEN)	
DRAWN BY	I. G-Remmen			E. Neupert, F. Gerami	DEPARTMENT OF TRANSPORTATION	STRUCTURE DESIGN	54-0483	LOG OF TEST BORINGS 8 OF 11	
CHECKED BY	A. Wardak					DESIGN BRANCH 10	POST MILE		
							43.93		

UNIT: 3643
PROJECT NUMBER & PHASE: 08140000861
CONTRACT NO.: 08-3555V1

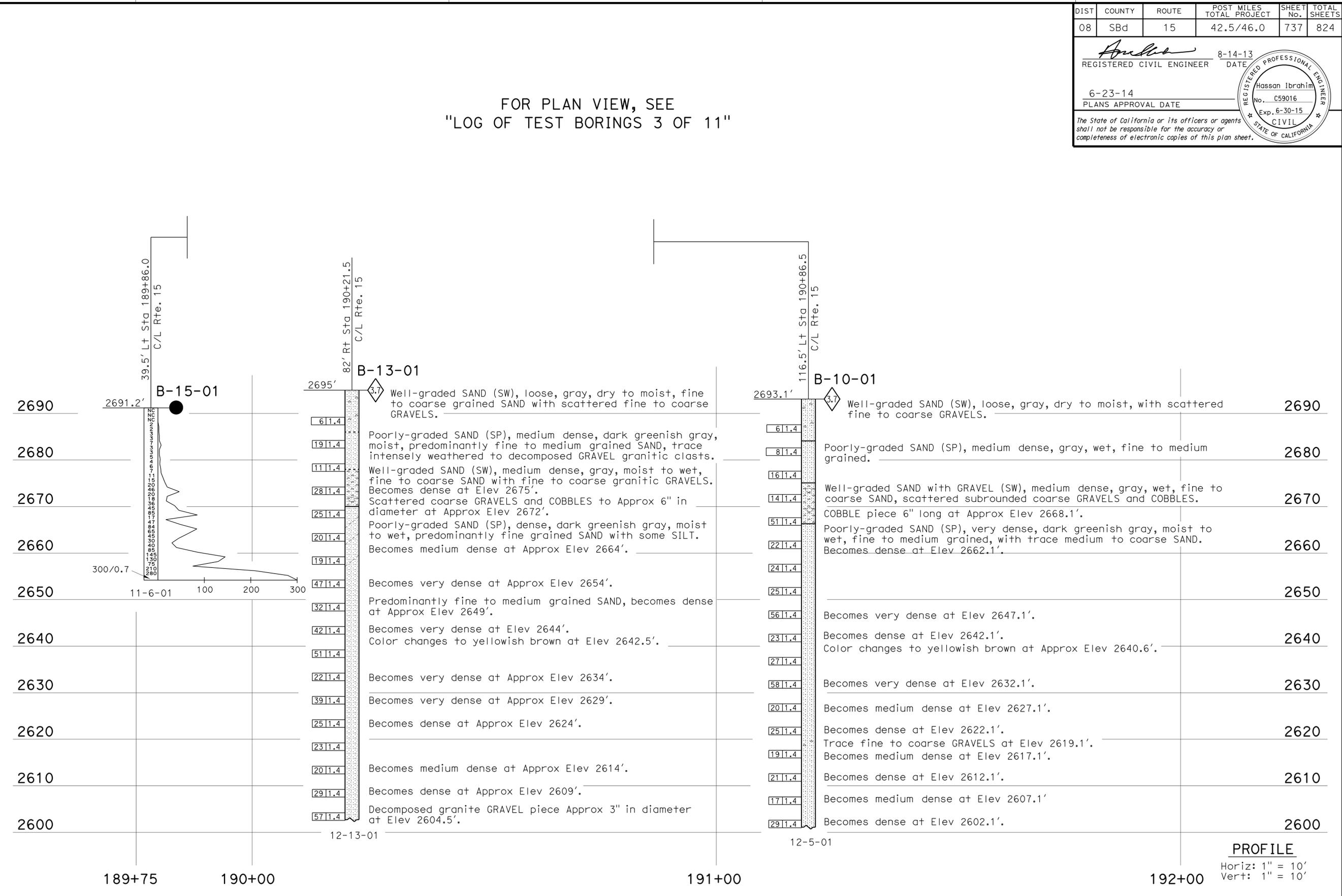
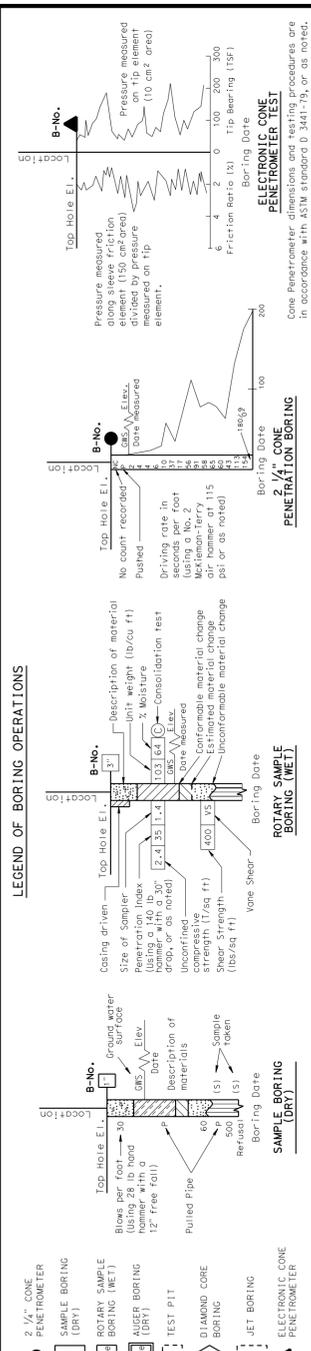
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 08-07-13

SHEET 41 OF 44

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:23

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 3 OF 11"



LEGEND OF EARTH MATERIALS

GRAVEL	CLAYEY SILT
SAND	PEAT and/or ORGANIC MATTER
SILT	COBBLES and/or BOULDERS
CLAY	IGNEOUS ROCK
SANDY CLAY or CLAYEY SAND	SEDIMENTARY ROCK
SANDY SILT or SILTY SAND	METAMORPHIC
SILTY CLAY	

CONSISTENCY CLASSIFICATION FOR SOILS

SPT No./Blows (ft)	According to the Standard Penetration Test	
	Granular	Cohesive
0-4	Very Loose	Very Soft
5-10	Loose	Soft
11-30	Medium Dense	Medium Stiff
31-50	Dense	Stiff
51-70	Very Dense	Very Stiff
71-90		Hard
91-110		Very Hard

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.

ENGINEERING SERVICES	MATERIALS & GEOTECHNICAL SVCS	FIELD INVESTIGATION BY: E. Neupert, F. Gerami	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0483 POST MILE 43.93	MOJAVE RIVER BRIDGE (WIDEN) LOG OF TEST BORINGS 9 OF 11
DRAWN BY I. G. Remmen	CHECKED BY A. Wardak					

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	738	824

8-14-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE

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

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 3 OF 11"

LEGEND OF BORING OPERATIONS

2 1/4" CONE PENETROMETER SAMPLE BORING (DRY)

3" POTTERY SAMPLE BORING (WET)

3" AUGER BORING (WET)

TEST PIT

DIAMOND CORE BORING

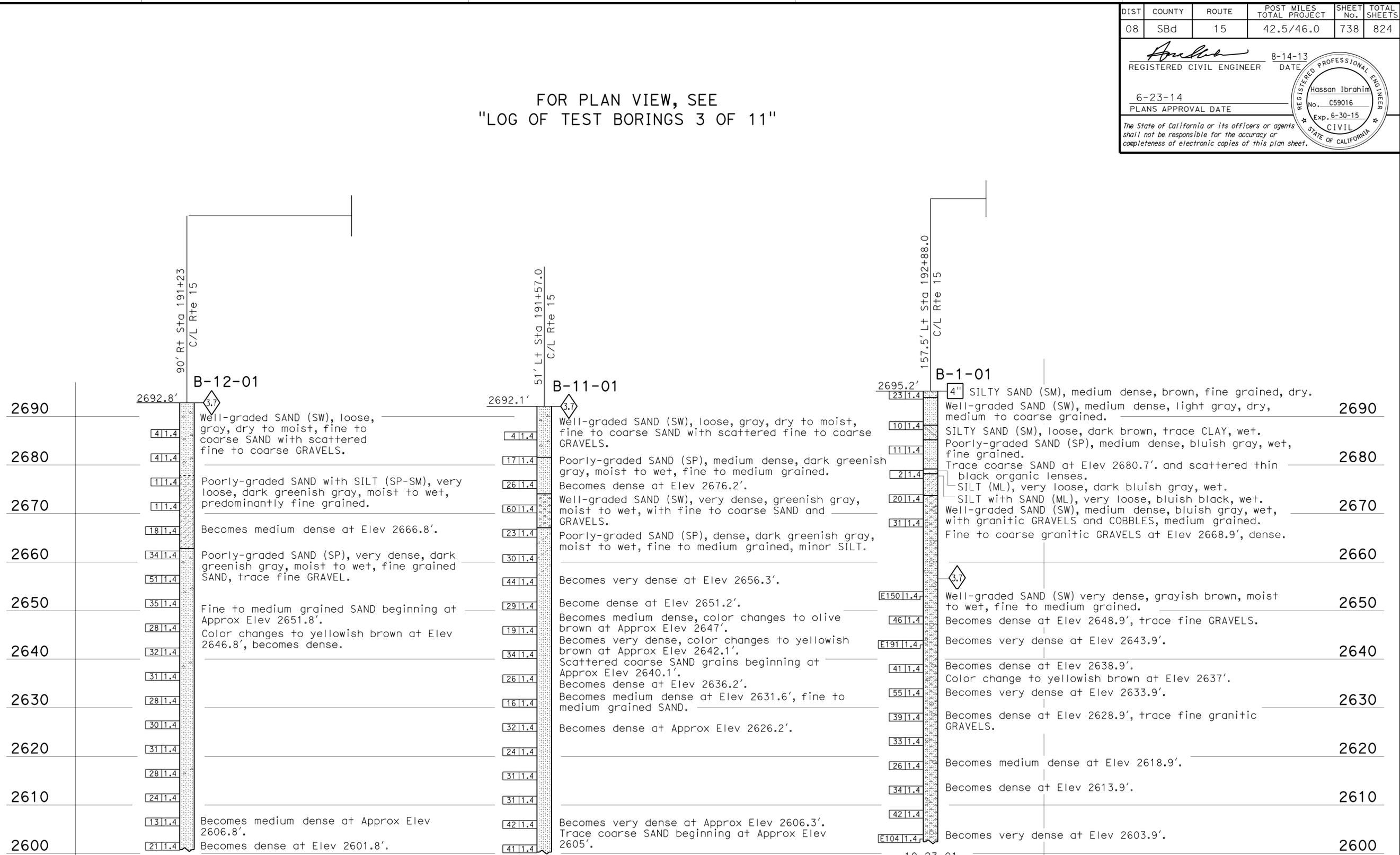
JET BORING

ELECTRONIC CONE PENETROMETER

LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

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.

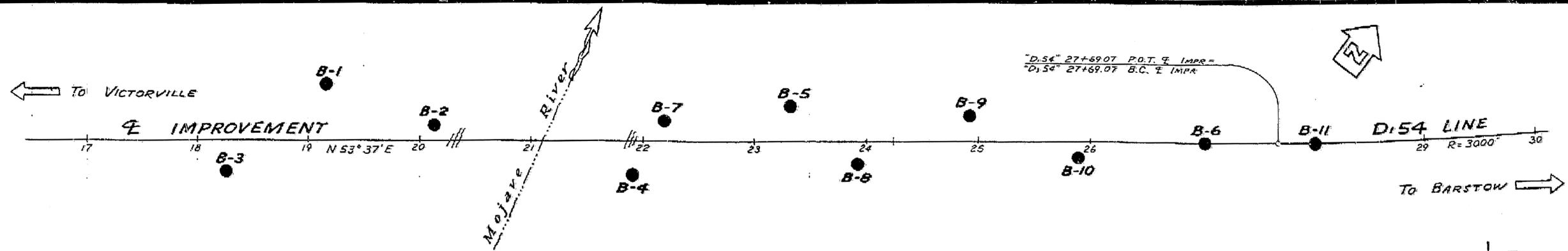


PROFILE
 Horiz: 1" = 10'
 Vert: 1" = 10'

191+00	192+00	193+00	
--------	--------	--------	--

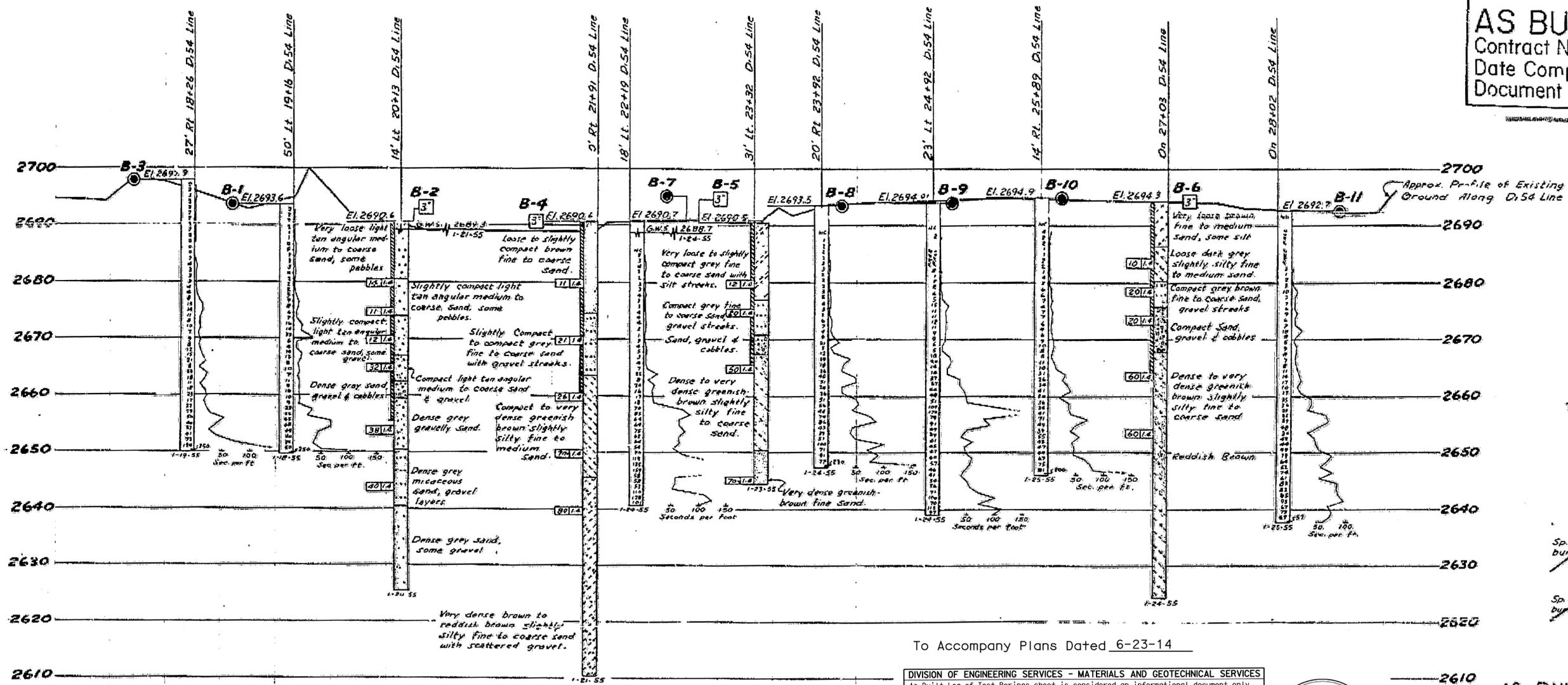
ENGINEERING SERVICES	MATERIALS & GEOTECHNICAL SVCS	FIELD INVESTIGATION BY: E. Neupert, F. Gerami	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0483 POST MILE 43.93	MOJAVE RIVER BRIDGE (WIDEN) LOG OF TEST BORINGS 10 OF 11
DRAWN BY I. G. Remmen	CHECKED BY A. Wardak					REVISION DATES 08-07-13

VIII SBd 15-10 P 3-9
 15
 DATE APPROVED February 27, 1956



AS BUILT PLANS
 Contract No. 57-8VC12
 Date Completed
 Document No. 80000790

BRIDGE DEPARTMENT



Test Boring By Bridge Dept.

B.M. D.54 2454
 Sp. Hd. Nail in 2x2 Rwd. Hub
 buried 18" 78' RL 24+54
 Elev. 2693.93

 B.M. D.54 3484
 Sp. Hd. Nail in 2x2 Rwd. Hub
 buried 18" 79' RL 24+54
 Elev. 2677.97

To Accompany Plans Dated 6-23-14

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.

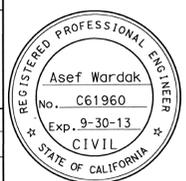
DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	Total Sheets
08	SBd	15	42.5/46.0	739	824

Swardak
 REGISTERED CIVIL ENGINEER
 August 14, 2013
 DATE

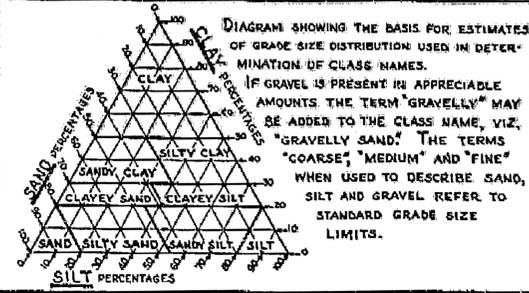
MOJAVE RIVER BRIDGE (WIDEN)
LOG OF TEST BORINGS 11 OF 11

UNIT: 3643	CONTRACT No. 08-3555V1	BRIDGE No. 54-0483
PROJ. No. & PHASE: 0800006211		

AS-BUILT VERT DATUM: NGVD29 CONVERSION: NGVD29 + 2.7 Ft
 NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA



CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS



LEGEND OF EARTH MATERIALS

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

LEGEND OF

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

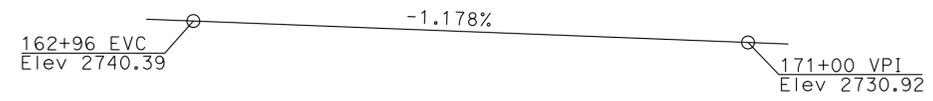
AS BUILT J.R. Hill 1-7-58 BR REP

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.

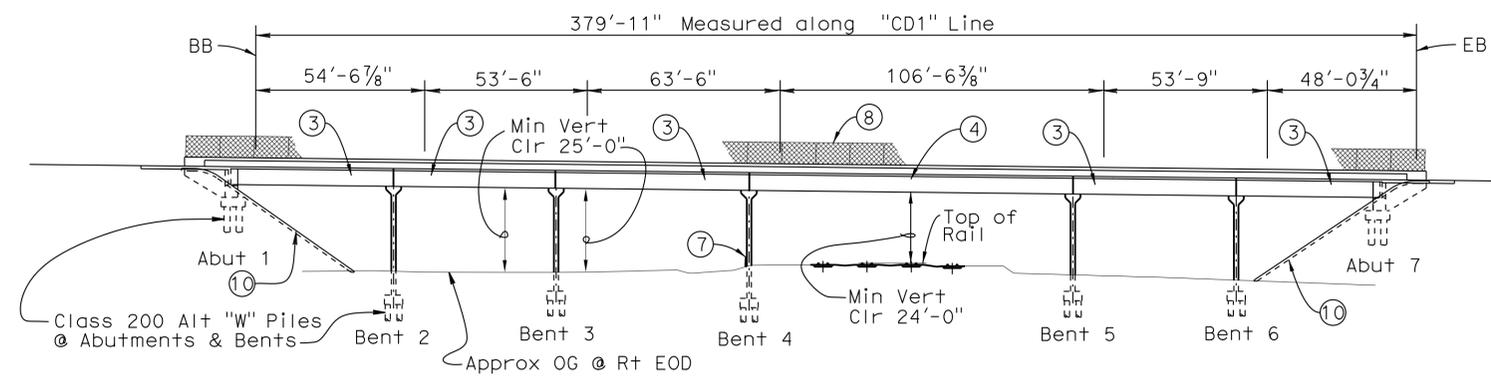
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
MOJAVE RIVER BRIDGE	
LOG OF TEST BORINGS	
Horizontal Scale 1" = 50'	Vertical Scale 1" = 10'
BRIDGE 54-483	FILE
DRAWING NO. P-4170	37

44

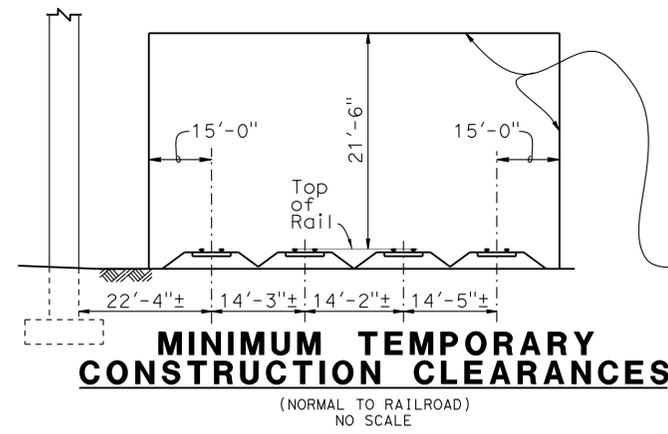
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	740	824
REGISTERED CIVIL ENGINEER			DATE 11-07-13		
6-23-14			PLANS APPROVAL DATE		
No. C65738			No. 9/30/15		
Exp. 9/30/15			CIVIL		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



PROFILE GRADE
NO SCALE

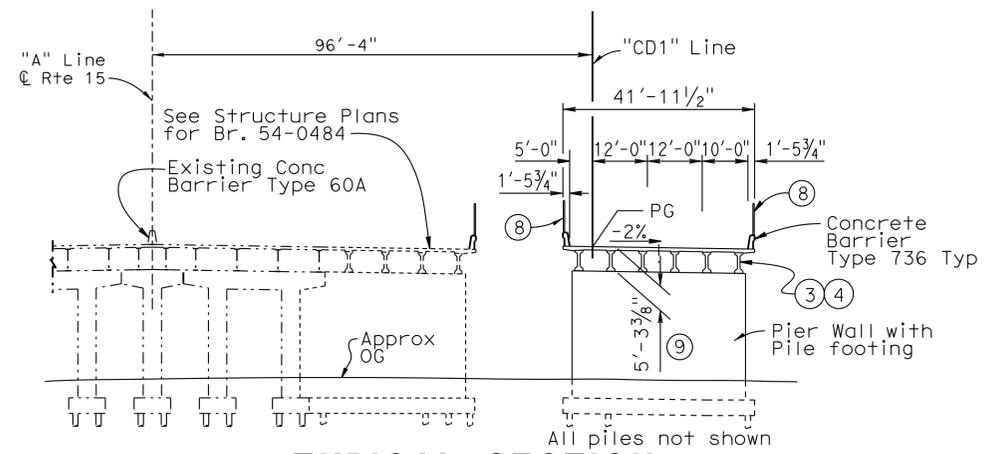


ELEVATION
1"=30'-0"

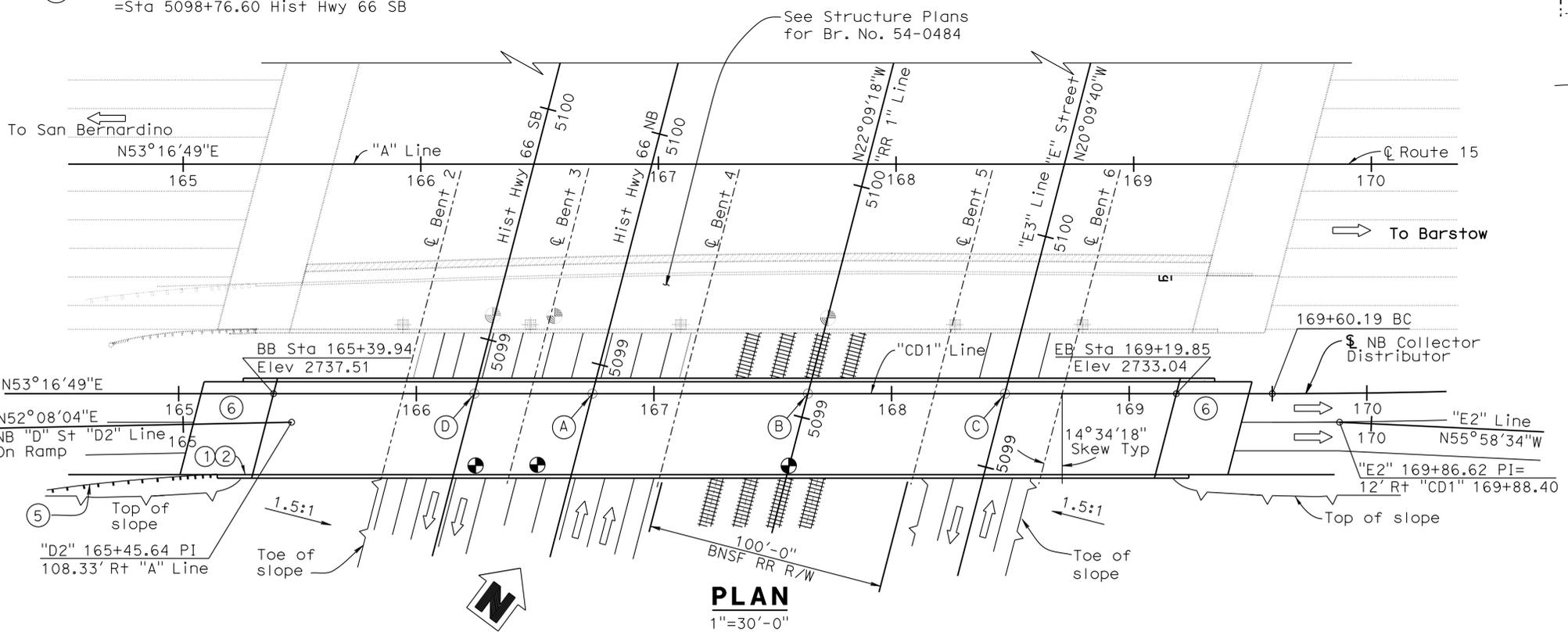


No construction activities or other obstructions may be placed within these limits, without getting RR approval

- (A) Sta 166+74.10 "CD1" Line
=Sta 5098+87.43 Hist Hwy 66 NB
- (B) Sta 167+64.82 "CD1" Line
=Sta 5099+10.25 "RR1" Line
- (C) Sta 168+47.71 "CD1" Line
=Sta 5099+31.88 "E3" Line
- (D) Sta 166+24.46 "CD1" Line
=Sta 5098+76.60 Hist Hwy 66 SB



TYPICAL SECTION
1"=20'-0"



PLAN
1"=30'-0"

NOTES:

- ① Paint "BR. NO. 54-0484G"
- ② Paint " VICTORVILLE SEPARATION & OVERHEAD"
- ③ PC/PS "I" Girder, for Spans 1, 2, 3, 5, 6, see "TYPICAL SECTION I GIRDERS" sheet.
- ④ Precast Conc Bulb-Tee Girder, for Span 4, see "TYPICAL SECTION BULB-TEE GIRDERS" sheet.
- ⑤ MGS, see "ROADWAY PLANS"
- ⑥ Structure Approach Type N(30S)
- ⑦ Type 60 Barrier, see "ROADWAY PLANS"
- ⑧ Chain Link Railing Type 7 (Mod)
- ⑨ 5'-3 3/8" at Span 4, 5'-0" all others.
- ⑩ Slope Paving-Full Slope

For "GENERAL NOTES", "INDEX TO PLANS", "STANDARD PLANS", "QUANTITIES", and "PILE DATA TABLE", see "INDEX TO PLANS" Sheet.

LEGEND:

- Indicates new construction
- - - Indicates existing structure
- Point of Min Vertical Clearance

DANIEL T. ADAMS DESIGN ENGINEER	DESIGN	BY R. Stiltz	CHECKED A. McPhee	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 10	BRIDGE NO.	54-0484G	VICTORVILLE SEPARATION & OVERHEAD GENERAL PLAN	
	DETAILS	BY G. Hallstrom	CHECKED A. McPhee	LAYOUT	BY R. Stiltz			CHECKED A. McPhee	POST MILE		43.5
	QUANTITIES	BY A. McPhee	CHECKED R. Kirkland	SPECIFICATIONS	BY K. Doll			CHECKED K. Doll	PLANS AND SPECS COMPARED		

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

UNIT: 3589 PROJECT NUMBER & PHASE: 0814000086 CONTRACT NO.: 08-3555V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

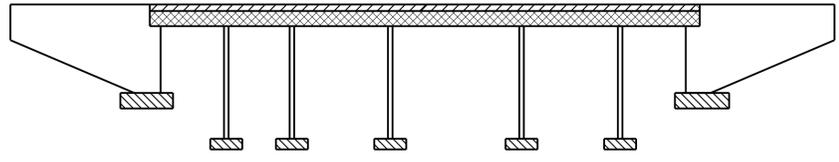
REVISION DATES	SHEET	OF
05-13-08 10-31-13 11-07-13 10-29-15	1	26

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.07-24-06) FILE => 540484_gagp01.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	741	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
<i>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.</i>					

INDEX TO PLANS

Sheet No.	Title
1.	GENERAL PLAN
2.	INDEX TO PLANS
3.	DECK CONTOURS
4.	FOUNDATION PLAN
5.	ABUTMENT LAYOUT
6.	ABUTMENT DETAILS NO. 1
7.	ABUTMENT DETAILS NO. 2
8.	BENT LAYOUT
9.	BENT DETAILS
10.	TYPICAL SECTION "I" GIRDERS
11.	TYPICAL SECTION "BULB-TEE" GIRDERS
12.	GIRDER LAYOUT
13.	PRECAST PRESTRESSED "I" GIRDER
14.	PC/PS BULB-TEE GIRDER (DEBONDED STRANDS)
15.	PC/PS BULB-TEE GIRDER (MISCELLANEOUS DETAILS)
16.	ADDITIONAL TOP REINFORCEMENT
17.	BENT ARCHITECTURAL DETAILS
18.	SLOPE PAVING (COBBLESTONE TEXTURE)
19.	STRUCTURE APPROACH TYPE N(30S)
20.	STRUCTURE APPROACH DRAINAGE DETAILS
21.	CHAIN LINK RAILING TYPE 7 (MOD)
22.	LOG OF TEST BORINGS 1 OF 5
23.	LOG OF TEST BORINGS 2 OF 5
24.	LOG OF TEST BORINGS 3 OF 5
25.	LOG OF TEST BORINGS 4 OF 5
26.	LOG OF TEST BORINGS 5 OF 5



- Structural Concrete, Bridge
- Structural Concrete, Bridge Footing
- Structural Concrete, Bridge (4,000 psi at 28 days)
- Precast Girders

CONCRETE STRENGTH AND TYPE LIMITS

No Scale

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
	A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
	BO-1	BRIDGE DETAILS
	BO-3	BRIDGE DETAILS
	BO-5	BRIDGE DETAILS
	BO-13	BRIDGE DETAILS
	B2-8	PILE DETAILS CLASS 200
	B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
RSP	B11-56	CONCRETE BARRIER TYPE 736

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:
AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments, Preface dated Nov. 2011.

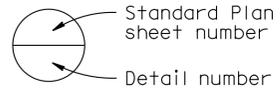
SEISMIC DESIGN:
Caltrans Seismic Design Criteria (SDC), Version 1.6, November, 2010.

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

LIVE LOADING:
HL93 and permit design load.

SEISMIC LOADING:
Soil profile: $V_{s30} = 656$ ft/s
Moment Magnitude: $M_{max} = 6.5$
Peak Ground Acceleration 0.49 g

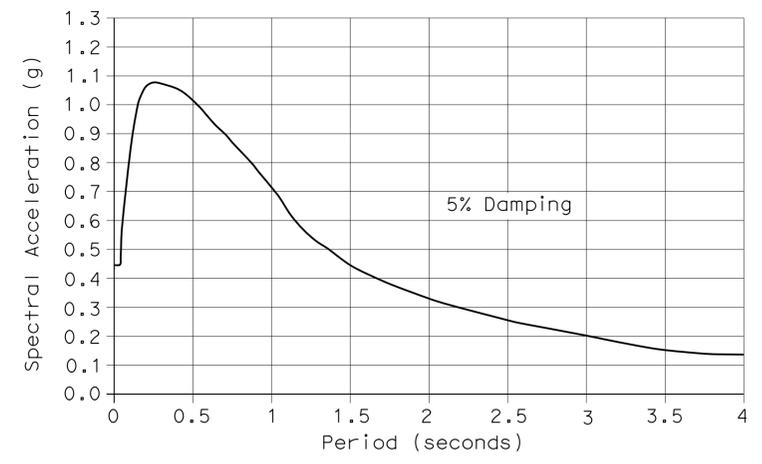
PILE DATA TABLE



Location	Pile Type	Nominal Resistance (kips)		Design Tip Elevation (ft)	Specified Tip Elevation (ft)	Nominal Driving Resistance (kips)
		Compression	Tension			
Abut 1	Class 200 Alt "W"	280	0	2673 (a) 2665 (d)	2665	560
Bent 2	Class 200 Alt "W"	390	170	2647 (a) 2644 (b) 2654 (d)	2644	440
Bent 3	Class 200 Alt "W"	390	170	2647 (a) 2644 (b) 2655 (d)	2644	440
Bent 4	Class 200 Alt "W"	390	100	2639 (a) 2646 (b) 2650 (d)	2639	400
Bent 5	Class 200 Alt "W"	390	100	2646 (a) 2654 (b) 2652 (d)	2646	385
Bent 6	Class 200 Alt "W"	360	170	2646 (a) 2639 (b) 2649 (d)	2639	450
Abut 7	Class 200 Alt "W"	280	0	2675 (a) 2665 (d)	2665	560

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	243	CY
STRUCTURE EXCAVATION (TYPE D)	626	CY
STRUCTURE BACKFILL (BRIDGE)	431	CY
FURNISH PILING (CLASS 200) (ALTERNATIVE W)	4,761	LF
DRIVE PILE (CLASS 200) (ALTERNATIVE W)	90	EA
STRUCTURAL CONCRETE, BRIDGE FOOTING	340	CY
STRUCTURAL CONCRETE, BRIDGE	1,245	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	87	CY
CONCRETE SURFACE TEXTURE (FLUTED RIB)	12,000	SQFT
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (40'-50')	6	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (50'-60')	18	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (60'-70')	6	EA
FURNISH PRECAST PRESTRESSED CONCRETE BULB-TEE GIRDER (100'-110')	6	EA
ERECT PRECAST PRESTRESSED CONCRETE GIRDER	36	EA
JOINT SEAL (MR 2")	84	LF
BAR REINFORCING STEEL (BRIDGE)	331,231	LB
SLOPE PAVING (COBBLESTONE TEXTURE)	4,935	SQFT
CHAIN LINK RAILING (TYPE 7 MODIFIED)	824	LF
CONCRETE BARRIER (TYPE 736)	824	LF



REINFORCED CONCRETE:
 $f_y = 60$ ksi
 $f'_c = 4.0$ ksi, unless otherwise noted.
 $n = 8$

PRESTRESSED CONCRETE:
See "Prestressing Notes" on "PC/PS BULB-TEE GIRDER (DEBONDED STRANDS)" sheet.

NOTES:
1. All design tip elevations are controlled by the following demands:
(a) Compression, (b) Tension, (d) Lateral Load.

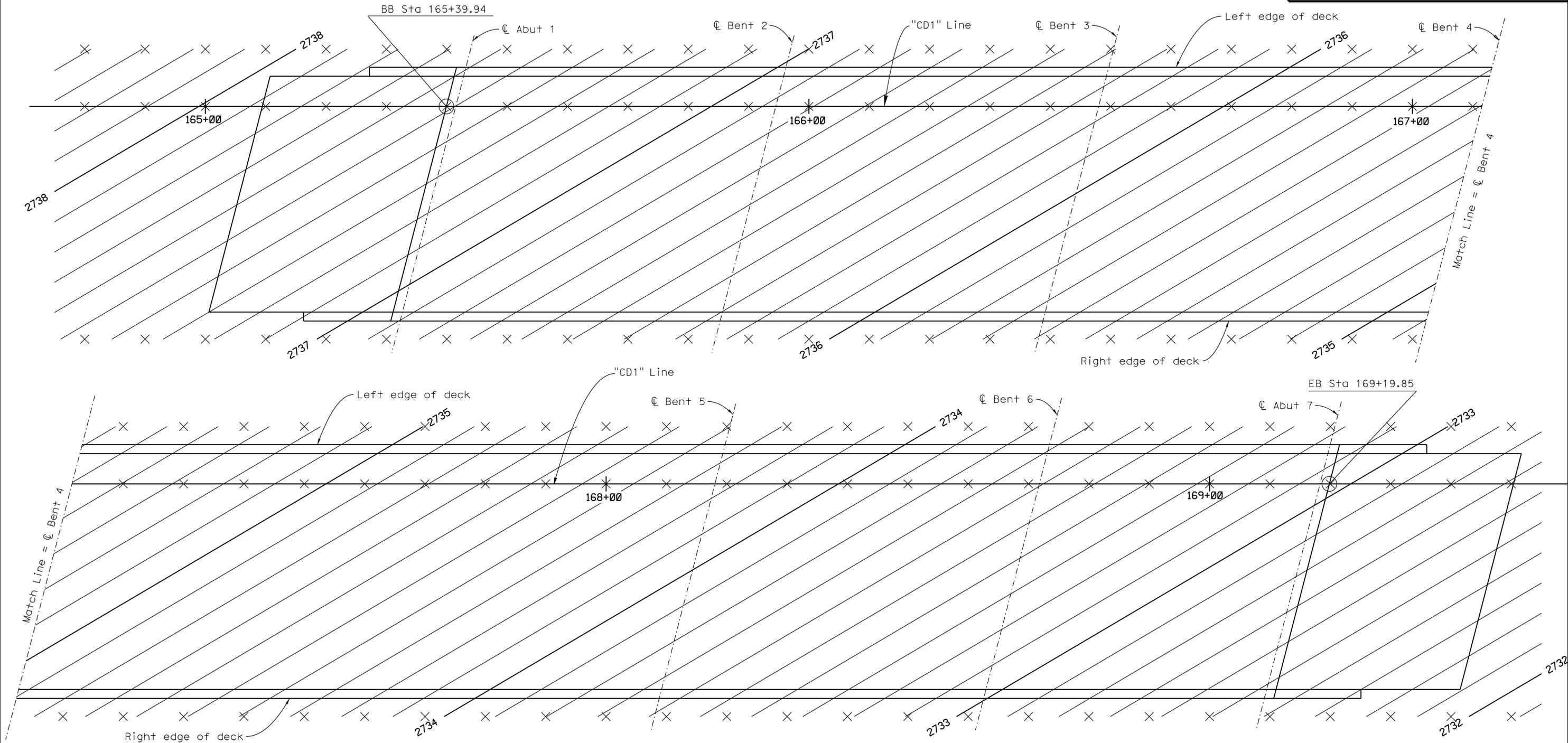
DESIGN	BY	Ryan Stiltz	CHECKED	A. McPhee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484G	VICTORVILLE SEPARATION & OVERHEAD		
	DETAILS	BY	G. Hallstrom	CHECKED			A. McPhee	POST MILE		43.5	
QUANTITIES	BY	A. McPhee	CHECKED	R. Kirkland	INDEX TO PLANS		REVISION DATES		SHEET	OF	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)						CU 08 EA 3555V1		DISREGARD PRINTS BEARING EARLIER REVISION DATES		2	26

USERNAME => s121614 DATE PLOTTED => 30-JUN-2014 TIME PLOTTED => 08:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	742	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		

NOTES:

1. x - 10'-0" intervals along station line.
2. Contour intervals = 0.1'.
3. Contours do not include camber.



DECK CONTOURS

1/8" = 1'-0"

DESIGN	BY R. Stiltz	CHECKED A. McPhee
DETAILS	BY G. Hallstrom	CHECKED A. McPhee
QUANTITIES	BY A. McPhee	CHECKED R. Kirkland

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	54-0484G
POST MILE	43.5

VICTORVILLE SEPARATION & OVERHEAD
DECK CONTOURS

CURVE DATA				
No.	R	Δ	T	L
(A)	3000.00	4°20'29"	113.71	227.32
(B)	1000.00	7°34'04"	66.14	132.08

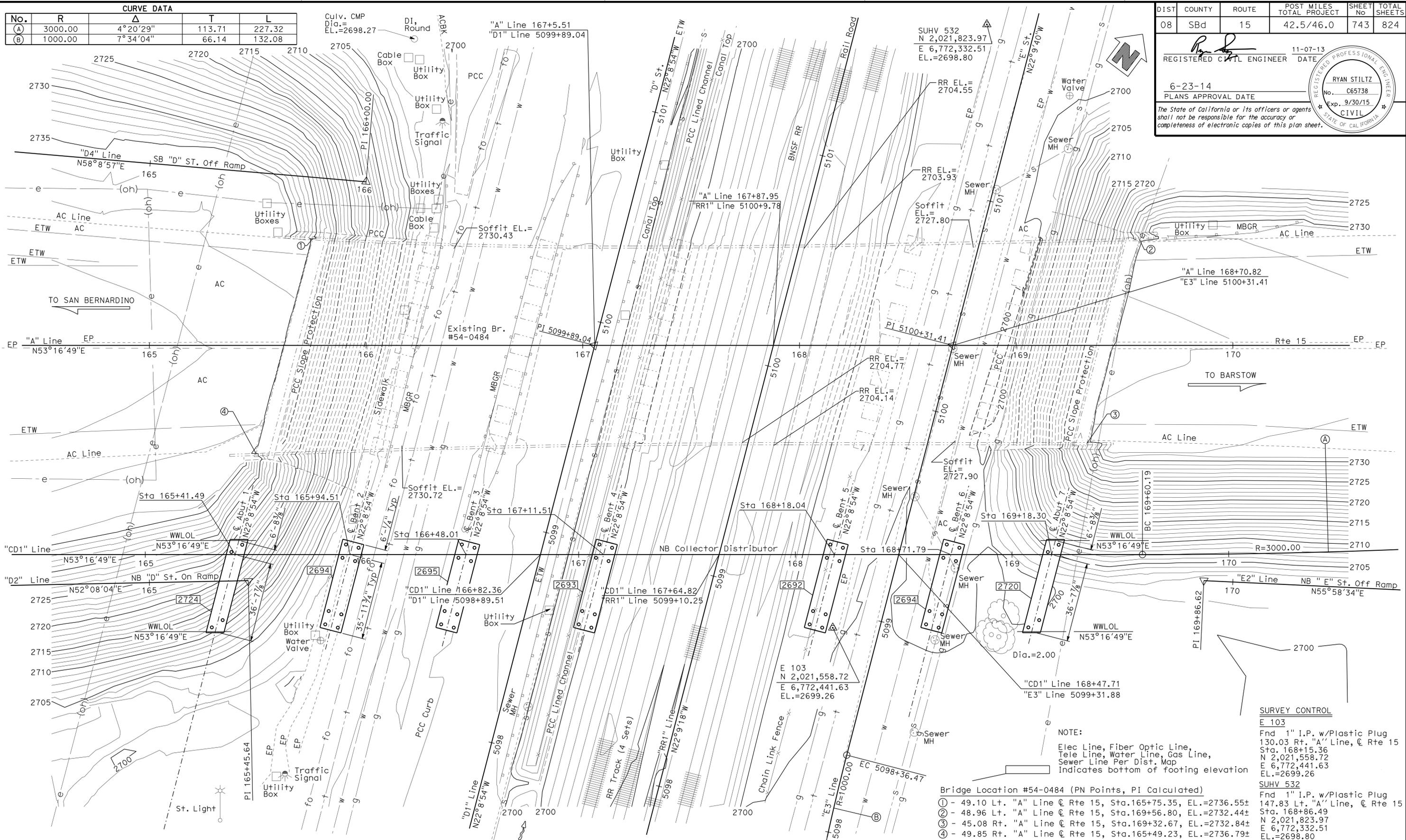
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	743	824

REGISTERED CIVIL ENGINEER DATE 11-07-13

6-23-14 PLANS APPROVAL DATE

RYAN STILTZ
No. C65738
Exp. 9/30/15
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.



- SURVEY CONTROL**
E 103
Fnd 1" I.P. w/Plastic Plug
130.03 Rt. "A" Line, @ Rte 15
Sta. 168+15.36
N 2,021,558.72
E 6,772,441.63
EL.=2699.26
- SUHV 532
Fnd 1" I.P. w/Plastic Plug
147.83 Lt. "A" Line, @ Rte 15
Sta. 168+86.49
N 2,021,823.97
E 6,772,332.51
EL.=2698.80
- NOTE:**
Elec Line, Fiber Optic Line,
Tele Line, Water Line, Gas Line,
Sewer Line Per Dist. Map
Indicates bottom of footing elevation
- Bridge Location #54-0484 (PN Points, PI Calculated)
- ① - 49.10 Lt. "A" Line @ Rte 15, Sta.165+75.35, EL.=2736.55±
 - ② - 48.96 Lt. "A" Line @ Rte 15, Sta.169+56.80, EL.=2732.44±
 - ③ - 45.08 Rt. "A" Line @ Rte 15, Sta.169+32.67, EL.=2732.84±
 - ④ - 49.85 Rt. "A" Line @ Rte 15, Sta.165+49.23, EL.=2736.79±

PRELIMINARY INVESTIGATION SECTION			
SCALE	VERT. DATUM	NGVD 29	PHOTOGRAMMETRY AS OF: X
1"=20'	HORZ. DATUM	NAD 83	SURVEYED BY Dist./Tom Gillett
ALIGNMENT TIES	Dist. Traverse Sheet	DRAFTED BY Sharon Zheng	CHECKED BY T. Zolnikova

DESIGN	BY R. Stiltz	CHECKED A. McPhee
DETAILS	BY G. Hallstrom	CHECKED A. McPhee
QUANTITIES	BY A. McPhee	CHECKED R. Kirkland

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

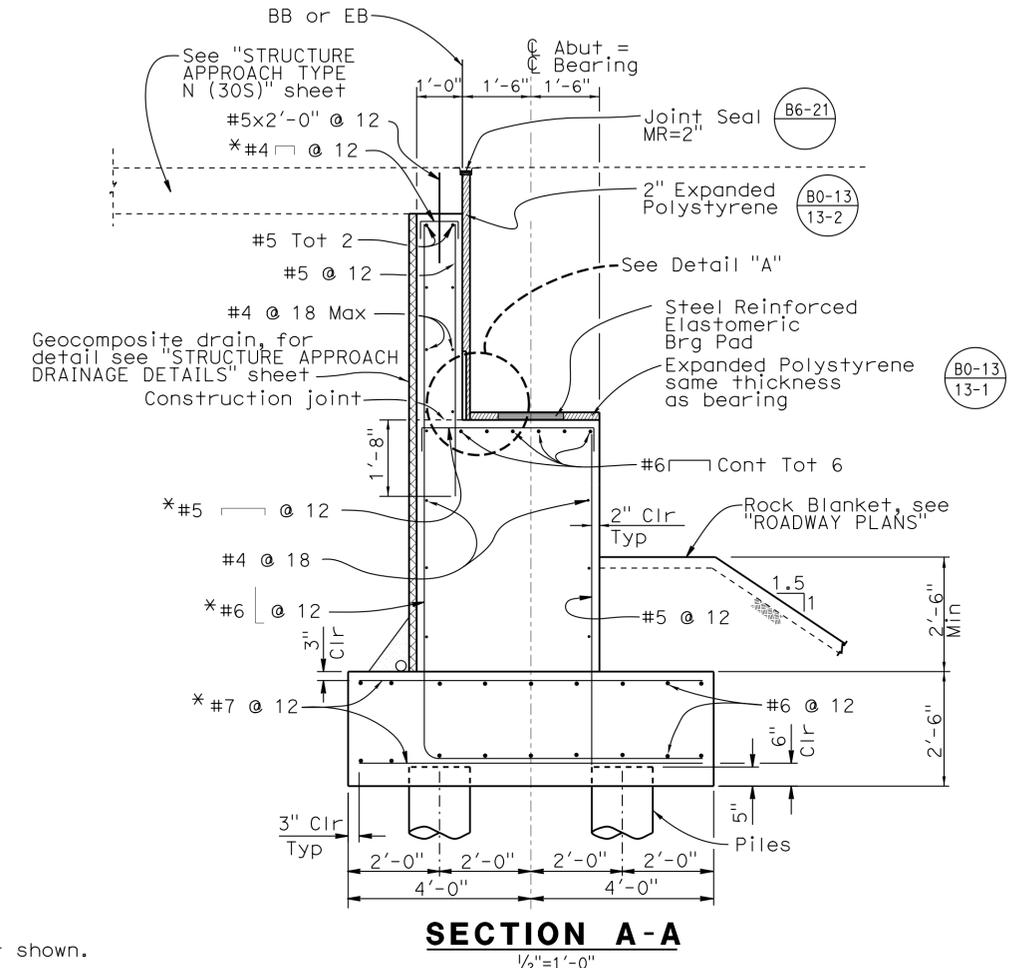
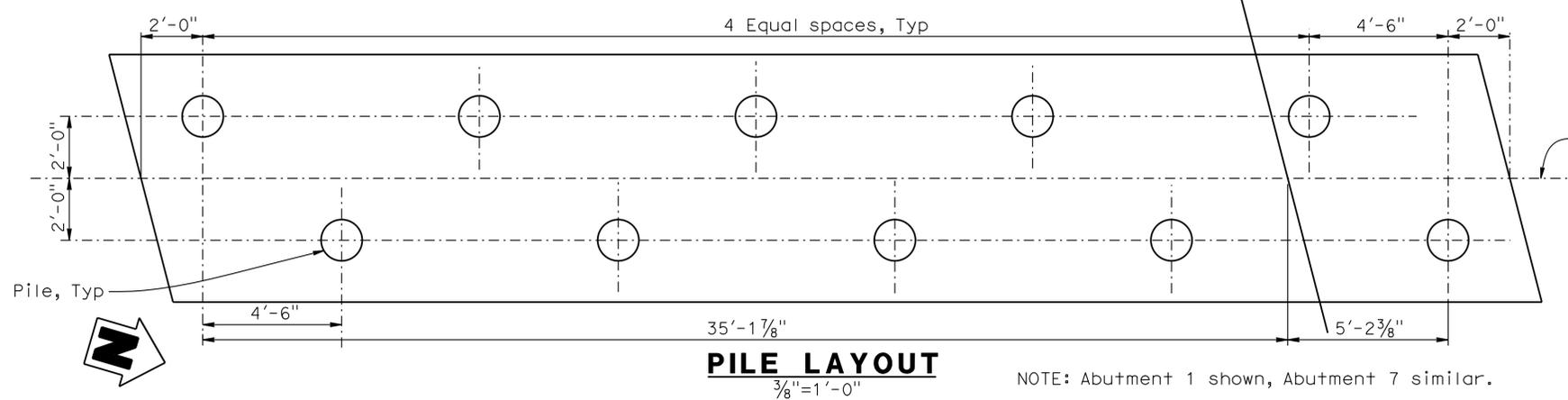
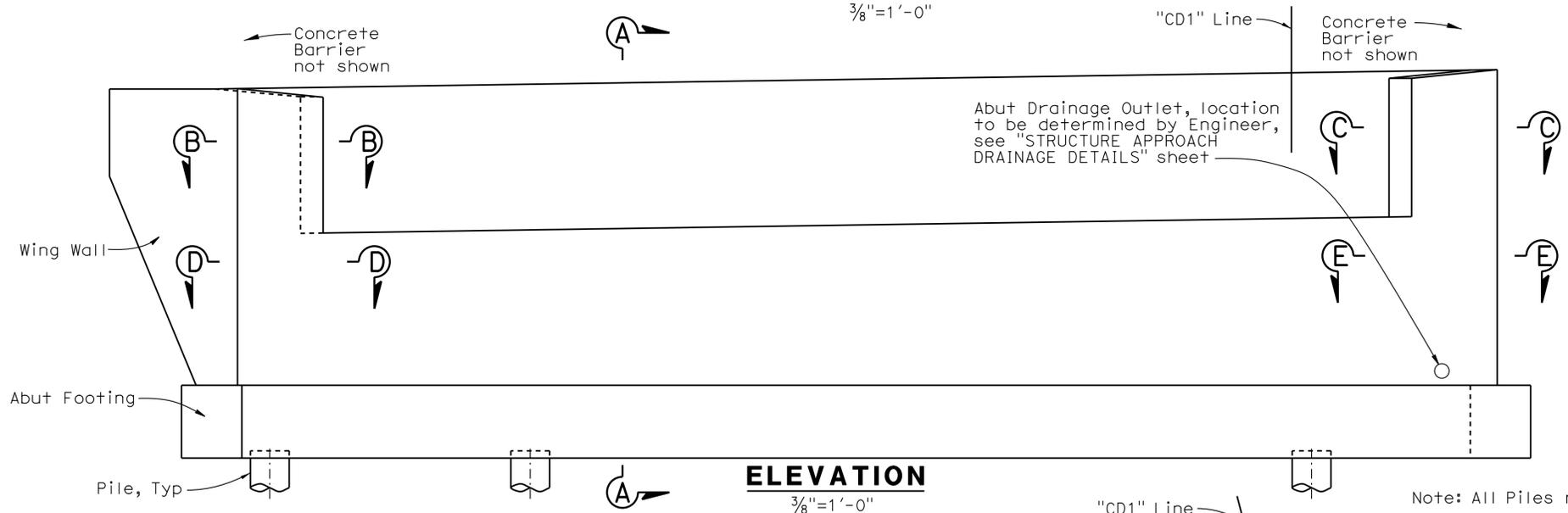
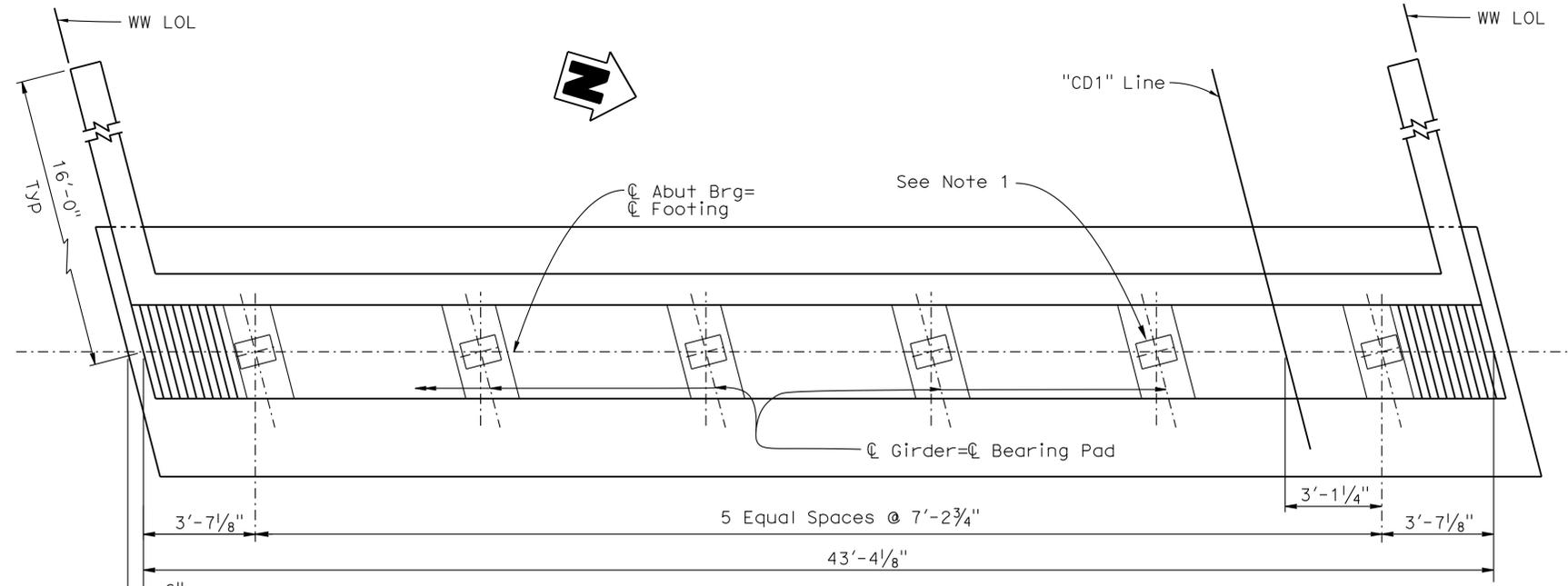
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	54-0484
POST MILE	43.20

VICTORVILLE SEPARATION & OVERHEAD
FOUNDATION PLAN

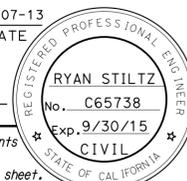
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	744	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		

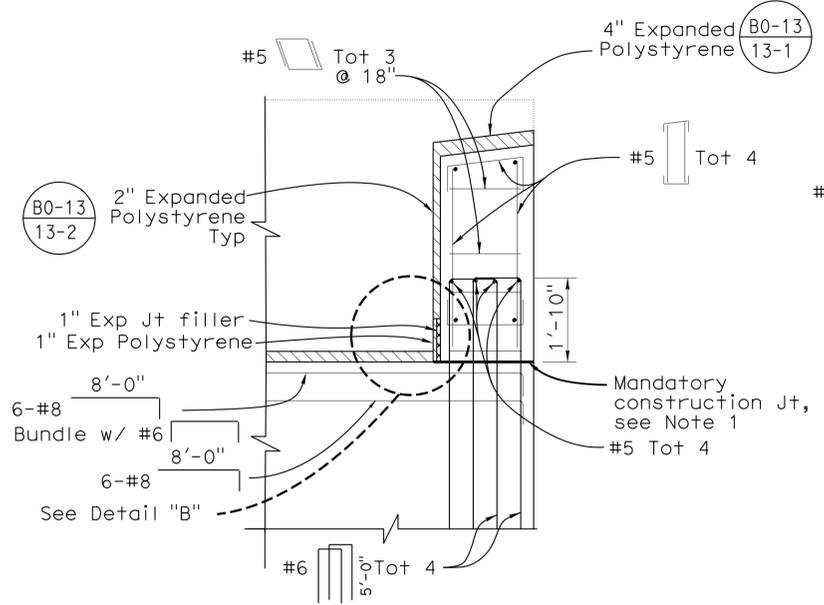
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



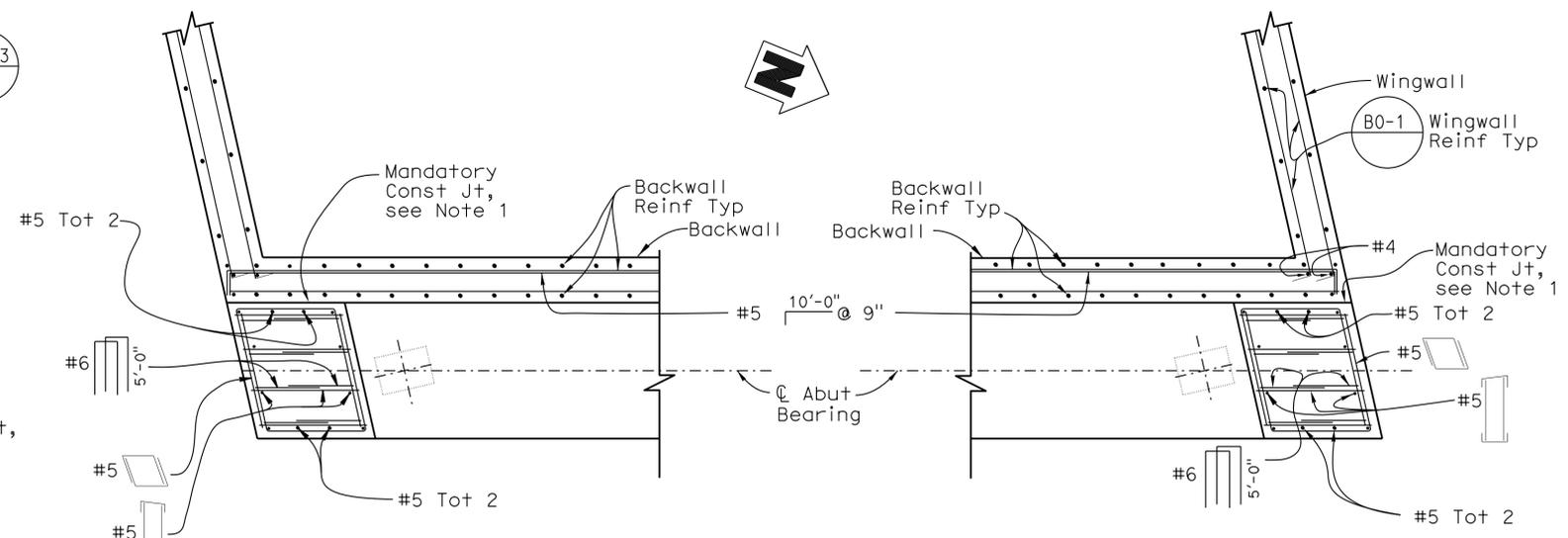
- NOTES:
- Bearing pads shall be 16" x 12" x 2" (elastomer only) steel reinforced elastomeric bearing pads Tot 6, for details see "ABUTMENT DETAILS NO. 1" sheet.
 - For "SECTION B-B", "SECTION C-C", "SECTION D-D", "SECTION E-E", and "DETAIL A", see "ABUTMENT DETAILS NO. 1" sheet.
 - For Wingwall details, see "ABUTMENT DETAILS NO. 2" sheet.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN BY R. Stiltz	CHECKED A. McPhee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0484G	VICTORVILLE SEPARATION & OVERHEAD ABUTMENT LAYOUT
	DETAILS BY G. Hallstrom	CHECKED A. McPhee			POST MILE 43.5	
	QUANTITIES BY A. McPhee	CHECKED R. Kirkland				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 5 OF 26

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	745	824
 REGISTERED CIVIL ENGINEER DATE 11-07-13					
6-23-14 PLANS APPROVAL DATE					
<i>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.</i>					

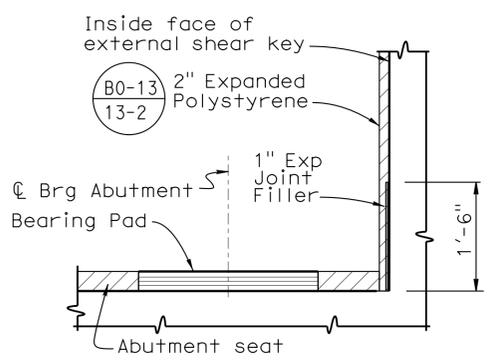


EXTERIOR SHEAR KEY ELEVATION
no scale

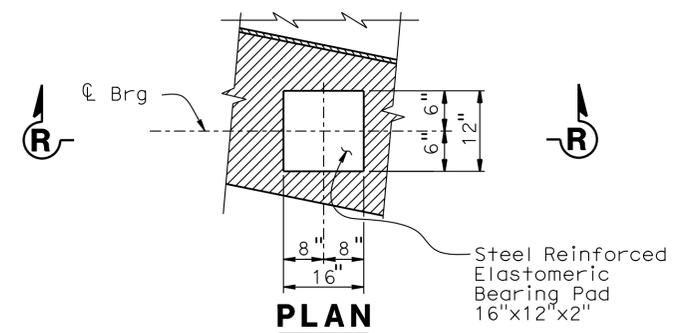


SECTION B-B
1/2"=1'-0"
See Note 3

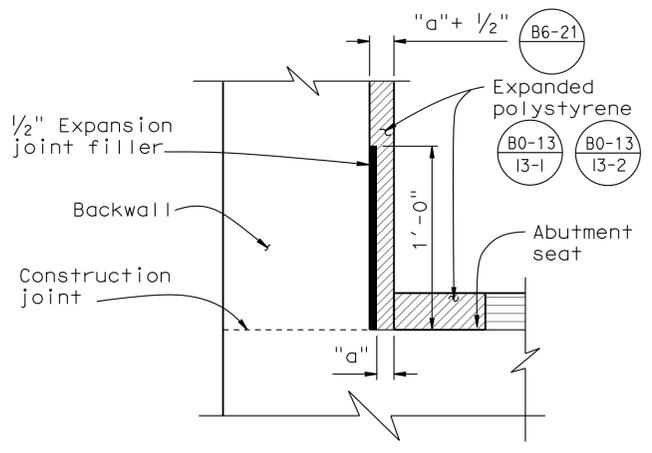
SECTION C-C
1/2"=1'-0"
See Note 3



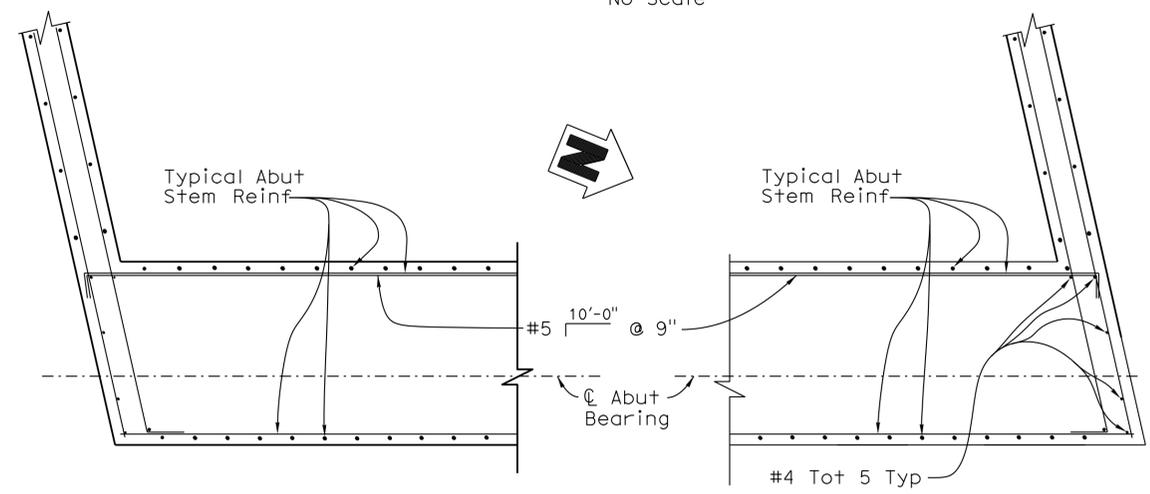
DETAIL "B"
No Scale



PLAN

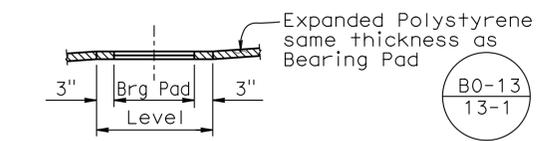


DETAIL "A"
No Scale



SECTION D-D
1/2"=1'-0"
See Note 3

SECTION E-E
1/2"=1'-0"
See Note 3



SECTION R-R
BEARING PAD DETAIL
No Scale

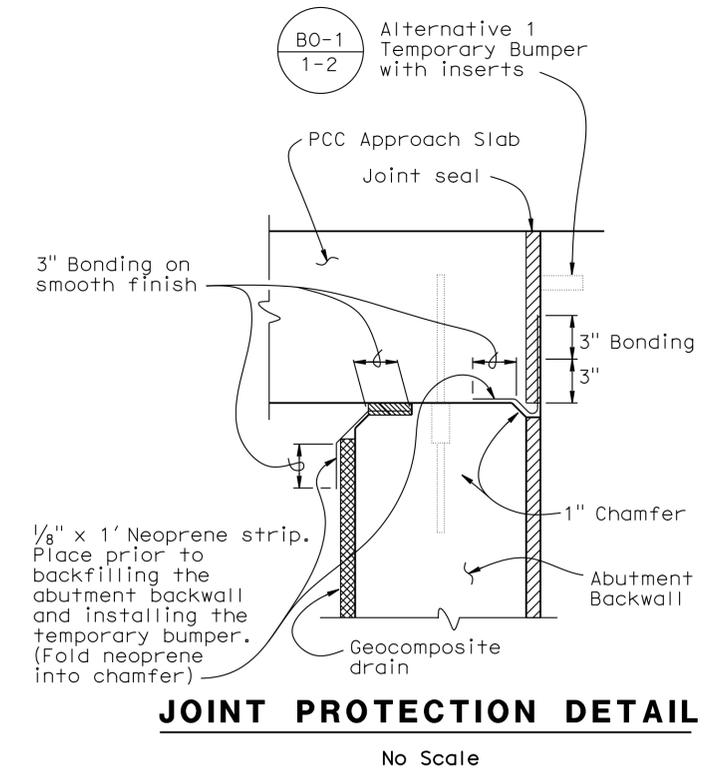
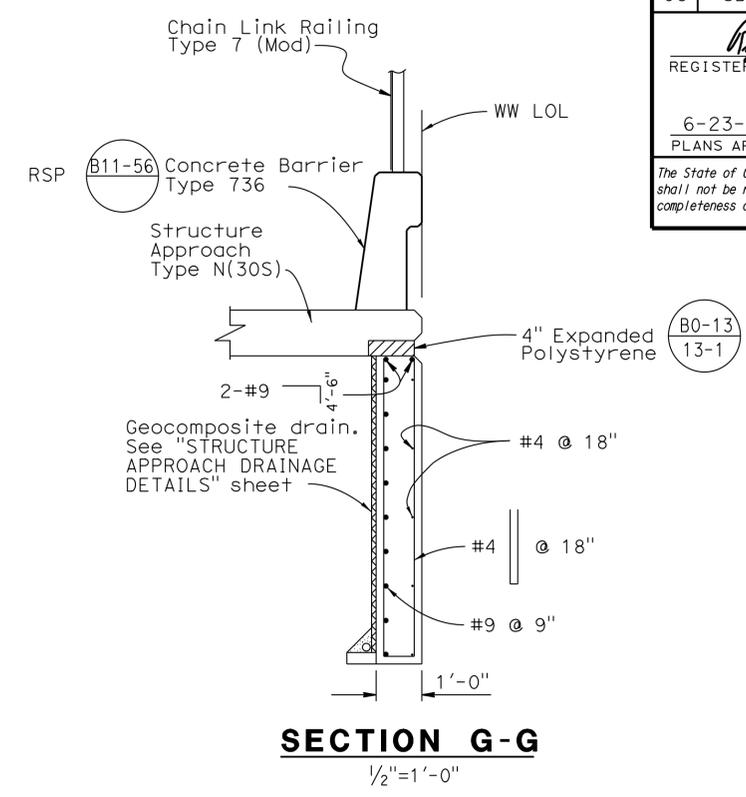
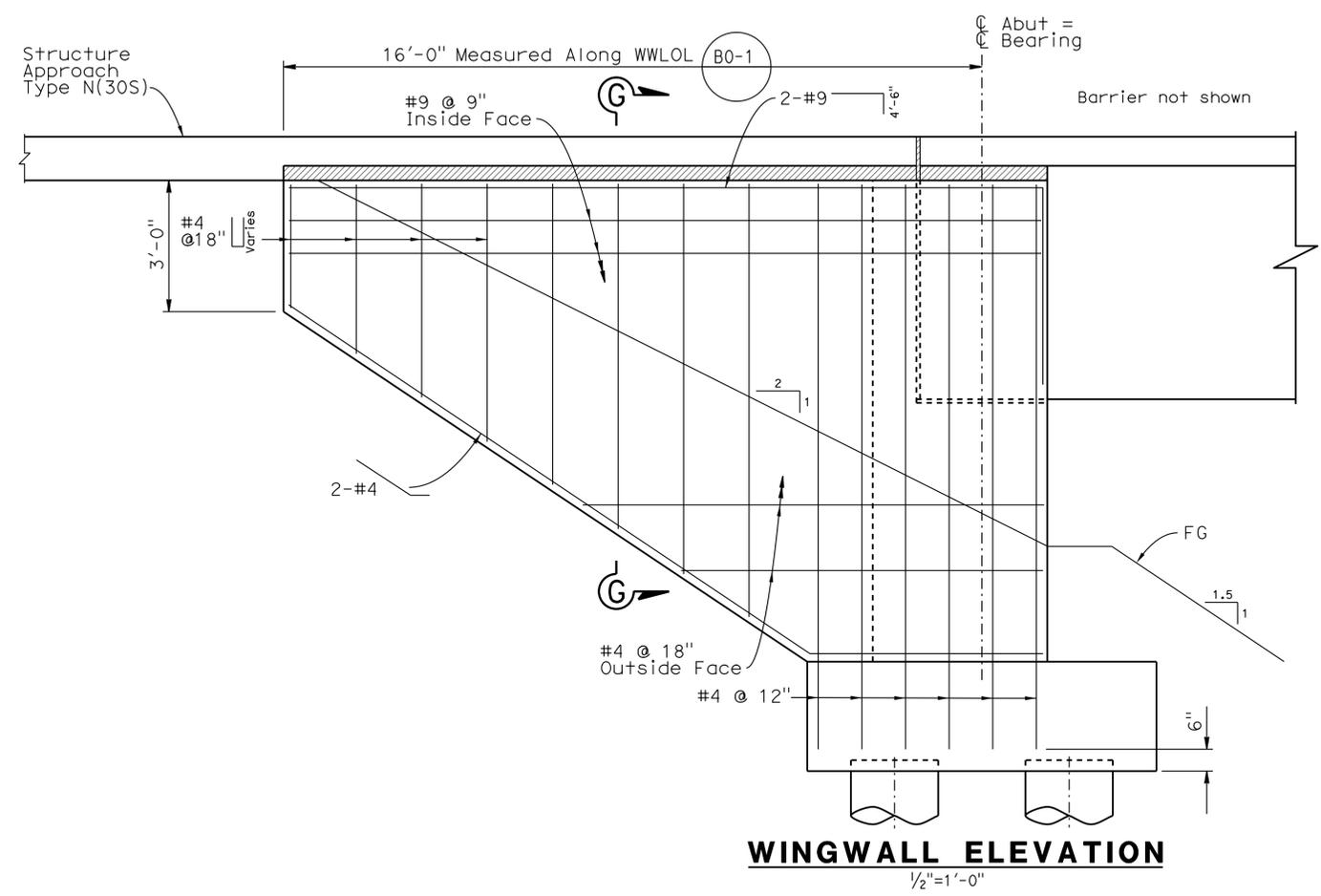
Details typical at Abutments and Bents with PC/PS I Girders

- NOTES:
1. Smooth Construction Joint and apply bond breaker before casting shear key. No reinforcement to cross Const Jt except as shown.
 2. For location of "SECTION B-B", "SECTION C-C", "SECTION D-D", "SECTION E-E", and "DETAIL A", see "ABUTMENT LAYOUT" sheet.
 3. Abutment 1 shown, Abutment 7 similar.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY R. Stiltz	CHECKED A. McPhee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484G	VICTORVILLE SEPARATION & OVERHEAD ABUTMENT DETAILS NO. 1
	DETAILS	BY G. Hallstrom	CHECKED A. McPhee			POST MILE	43.5	
	QUANTITIES	BY A. McPhee	CHECKED R. Kirkland			CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	FILE => 540484_gfodt06.dgn	REVISION DATES		SHEET 6 OF 26

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	746	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
<i>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.</i>					



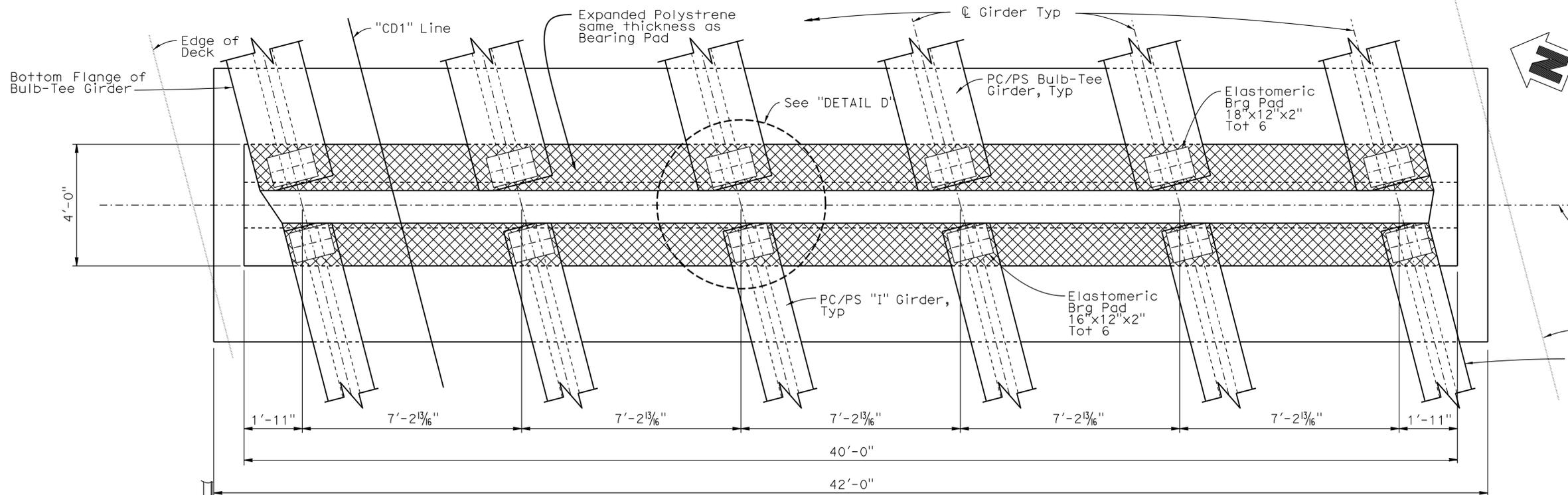
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY R. Stiltz	CHECKED A. McPhee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484G	VICTORVILLE SEPARATION & OVERHEAD ABUTMENT DETAILS NO. 2
	DETAILS	BY G. Hallstrom	CHECKED A. McPhee			POST MILE	43.5	
	QUANTITIES	BY A. McPhee	CHECKED R. Kirkland			REVISION DATES	03-10-09 4-06-13 10-31-13	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	7	26

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:38

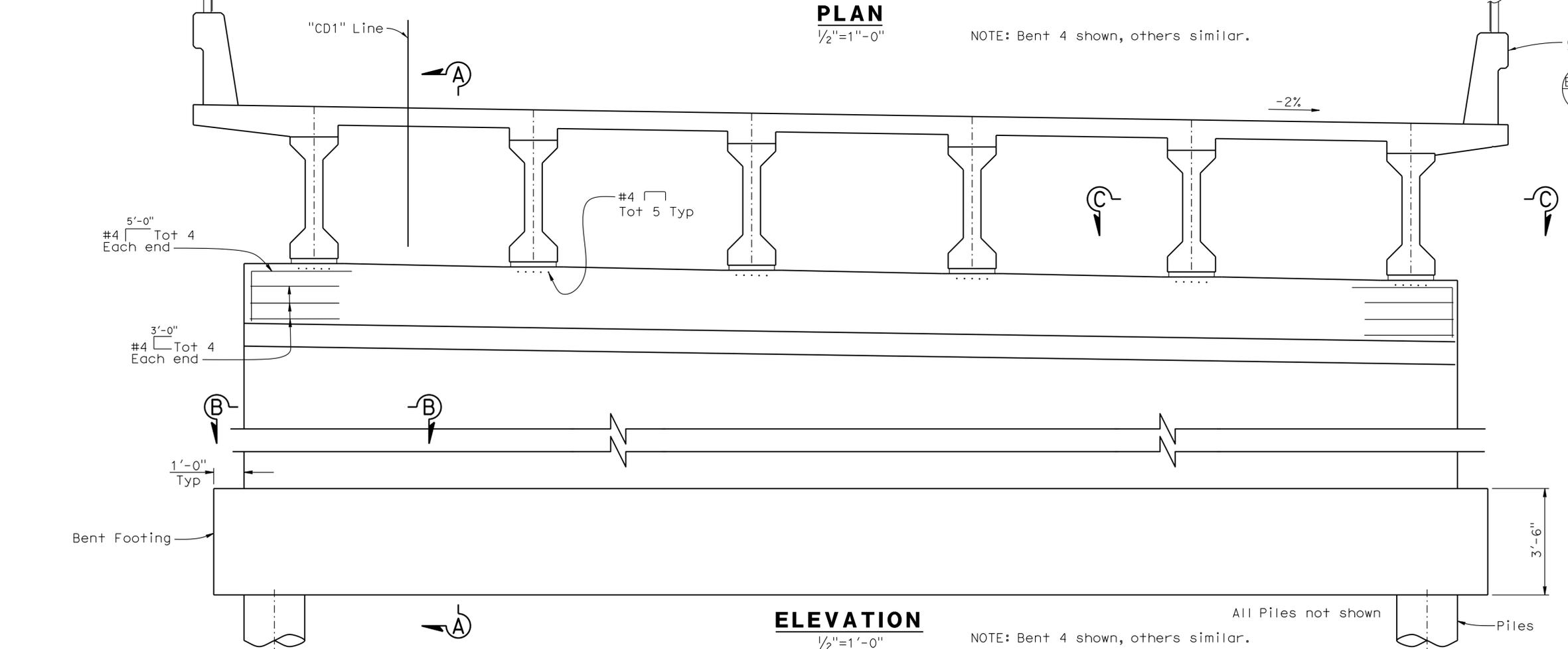
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	747	824

REGISTERED CIVIL ENGINEER	DATE
RYAN STILTZ	11-07-13
No. C65738	
PLANS APPROVAL DATE	
6-23-14	
Exp. 9/30/15	
CIVIL	

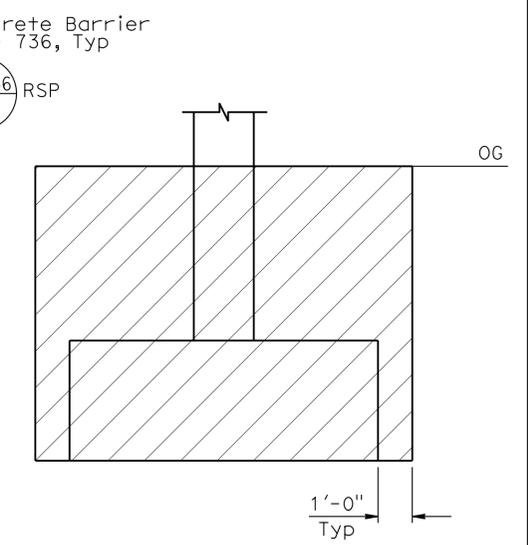
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



PLAN
 1/2"=1'-0"
 NOTE: Bent 4 shown, others similar.



ELEVATION
 1/2"=1'-0"
 NOTE: Bent 4 shown, others similar.



LIMITS AND PAYMENT FOR TYPE D EXCAVATION
 NO SCALE
 (Typical all Piers)

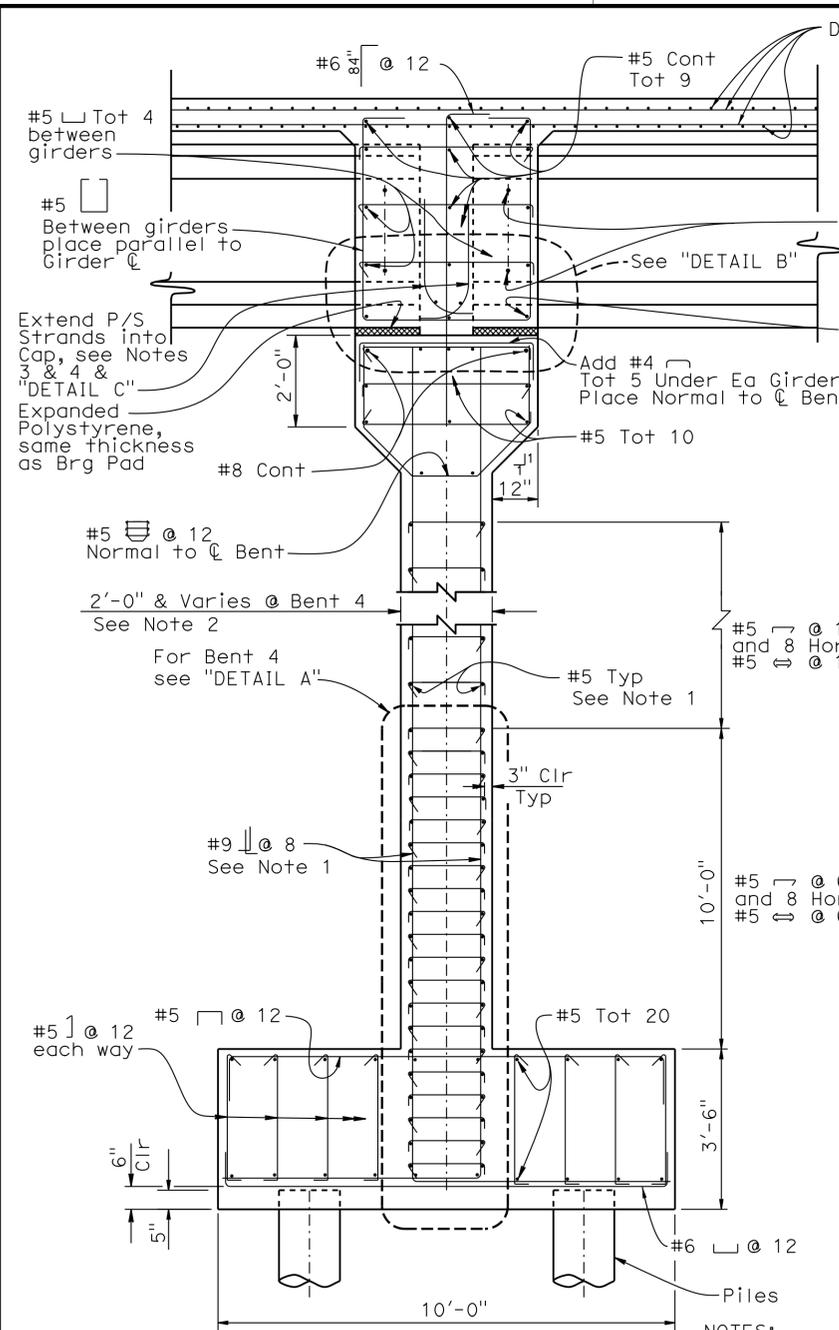
Structure Excavation, Type D

NOTE:
 For "SECTION A-A", "SECTION B-B", "SECTION C-C", and "DETAIL D", see "BENT DETAILS" sheet.

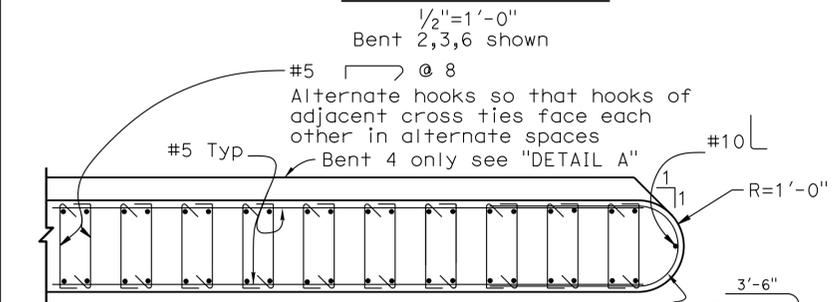
DESIGN	BY	R. Stiltz	CHECKED	A. McPhee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484G	VICTORVILLE SEPARATION & OVERHEAD BENT LAYOUT	
	DETAILS	BY	G. Hallstrom	CHECKED			A. McPhee	POST MILE		43.5
	QUANTITIES	BY	A. McPhee	CHECKED			R. Kirkland			

CU 08	EA 3555V1	BRIDGE NO.	54-0484G	POST MILE	43.5									
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF			
				0	1	2	3	03-11-08	1-18-13	3-29-13	10-31-13	11-13-13	8	26

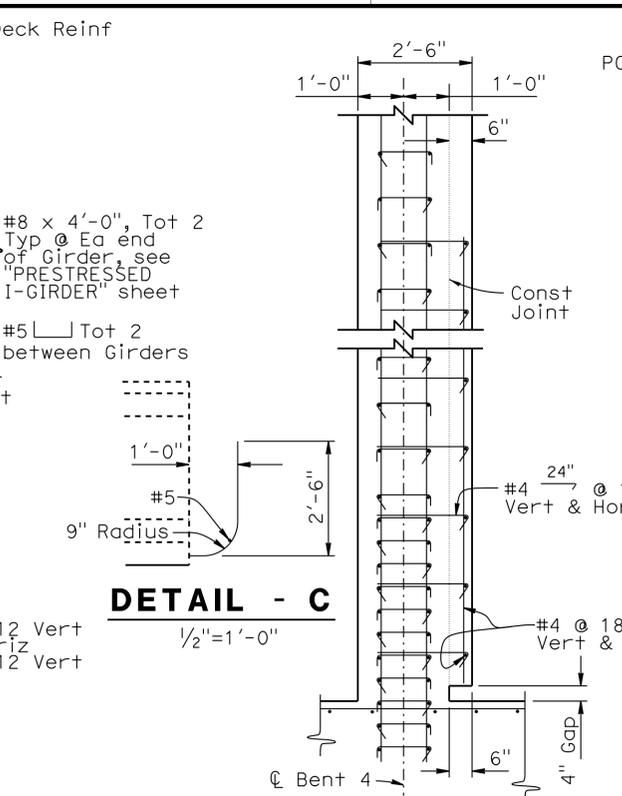
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	748	824
			11-07-13	REGISTERED PROFESSIONAL ENGINEER	
			6-23-14	PLANS APPROVAL DATE	
			RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		



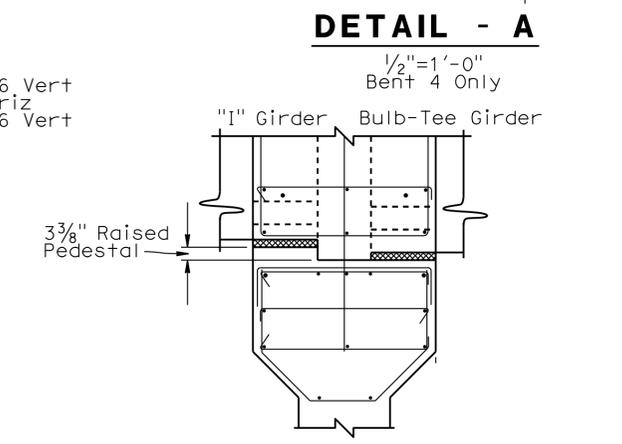
SECTION A-A
1/2"=1'-0"
Bent 2,3,6 shown



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



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

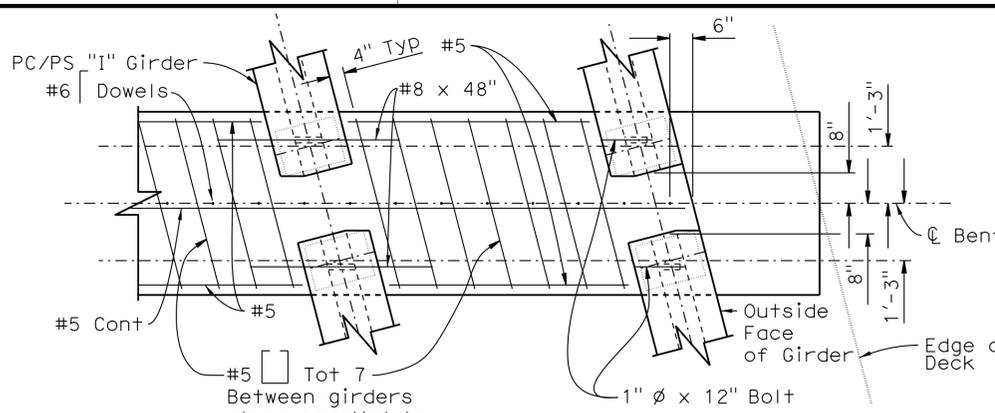


DETAIL - A
1/2"=1'-0"
Bent 4 Only

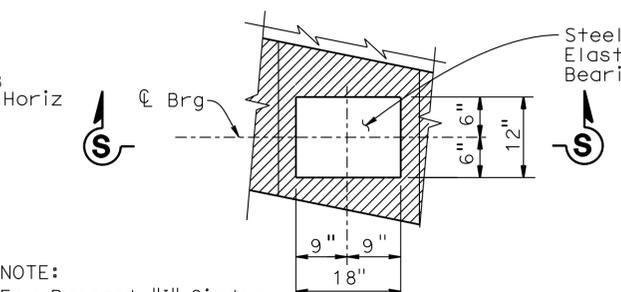


DETAIL - B
1/2"=1'-0"
Bent 4 shown, Bent 5 similar

- NOTES:
- No splices allowed for #9 vertical and #5 horizontal reinforcement.
 - Additional thickness and details for concrete surface textures not shown, see "BENT ARCHITECTURAL DETAILS" sheet.
 - Total of 6 bottom P/S Strands shall be extended into Bent Cap. Strand spacing shall be a minimum of 4" both horizontally & vertically. CG of strands shall be within bottom 8" of PC Girder.
 - Strands extending into Bent Cap may be either a portion of the girder pretensioned strands or additional P/S strands. If additional P/S strands are used, they shall extend a minimum of 8'-0" into Girder.
 - Diaphragms shall be poured no earlier than 90 days after precast girders have been cast.

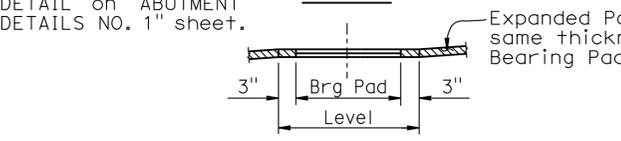


SECTION C-C
1/2"=1'-0"
Bents 2, 3, & 6

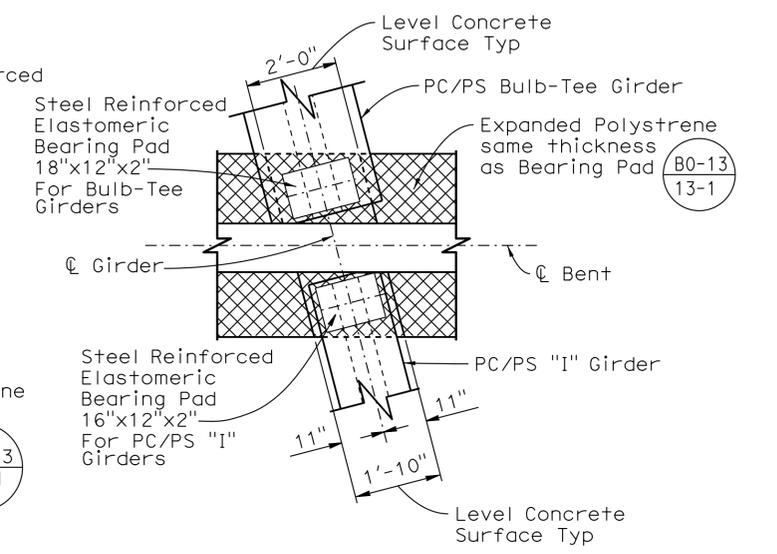


PLAN

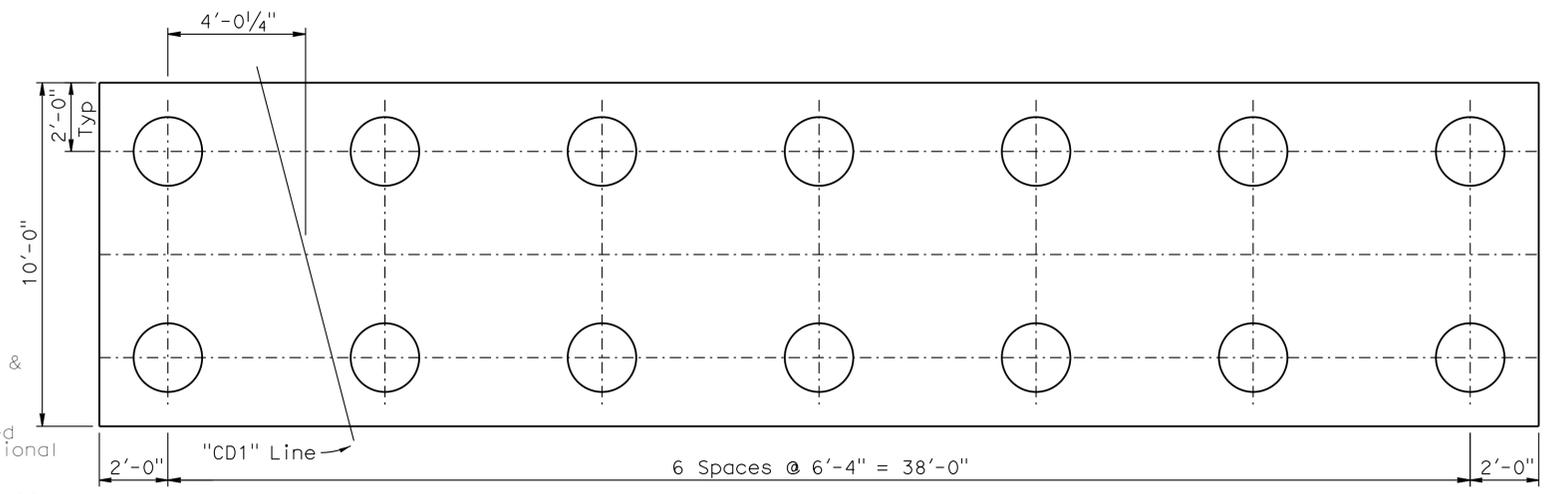
NOTE:
For Precast "I" Girder, see "BEARING PAD DETAIL" on "ABUTMENT DETAILS NO. 1" sheet.



SECTION S-S
BEARING PAD DETAIL
No Scale
Bearing Pad Details For Bulb-Tee Girders



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

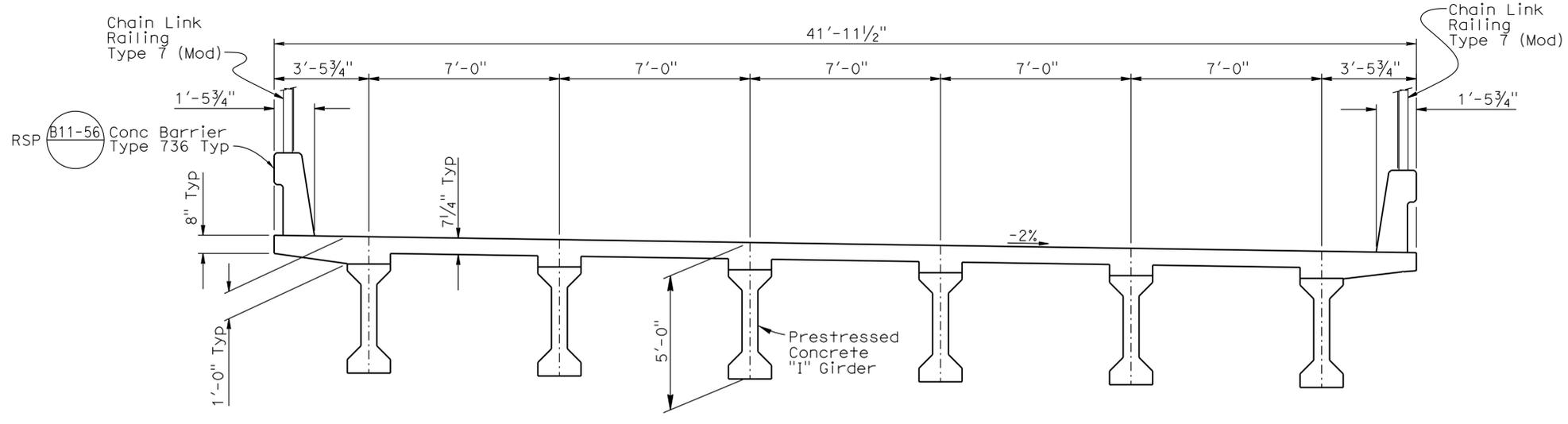


PILE LAYOUT
3/8"=1'-0"

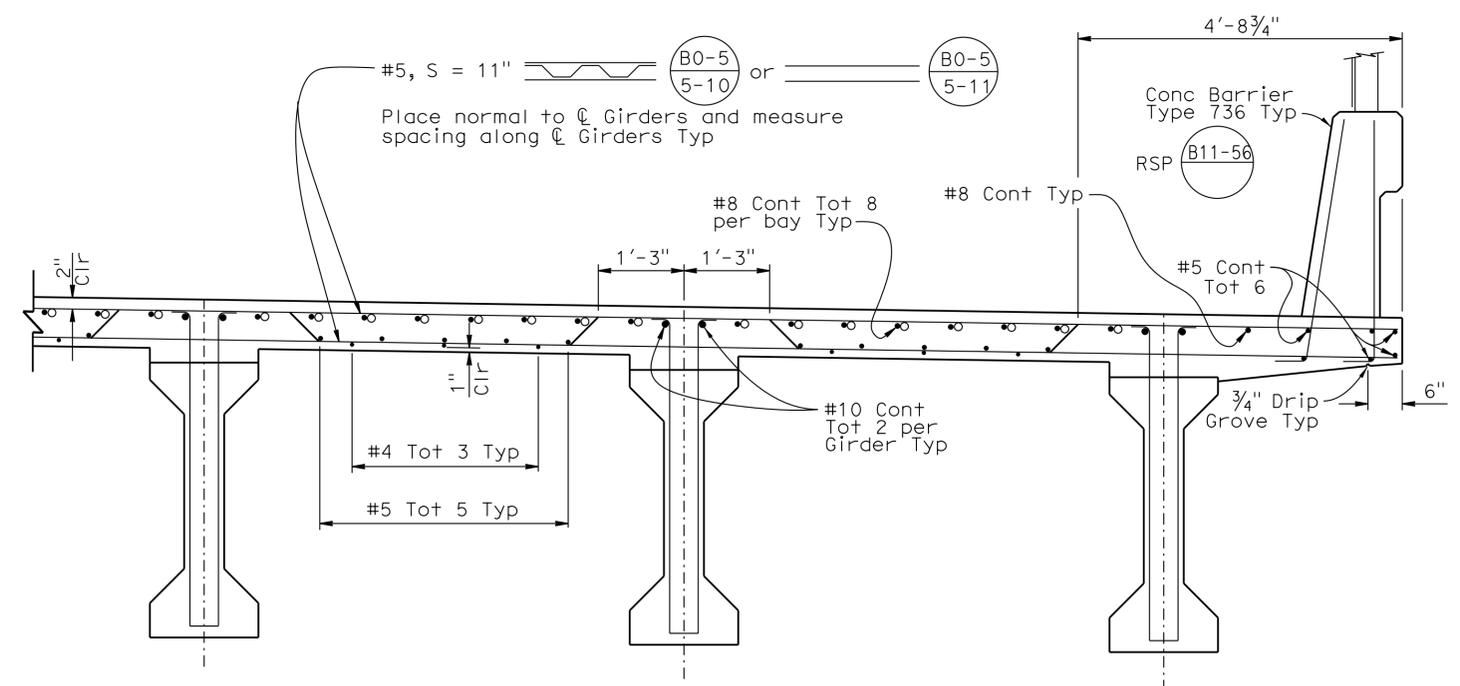
NOTE:
For "SECTION A-A", "SECTION B-B", "SECTION C-C", and "DETAIL D", see "BENT DETAILS" sheet.

DESIGN	BY R. Stiltz	CHECKED A. McPhee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484G	VICTORVILLE SEPARATION & OVERHEAD BENT DETAILS
DETAILS	BY G. Hallstrom	CHECKED A. McPhee			POST MILE	43.5	
QUANTITIES	BY A. McPhee	CHECKED R. Kirkland					

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	749	824
			11-07-13		
			REGISTERED CIVIL ENGINEER		
			DATE		
			6-23-14		
			PLANS APPROVAL DATE		
			RYAN STILTZ		
			No. C65738		
			Exp. 9/30/15		
			CIVIL		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



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



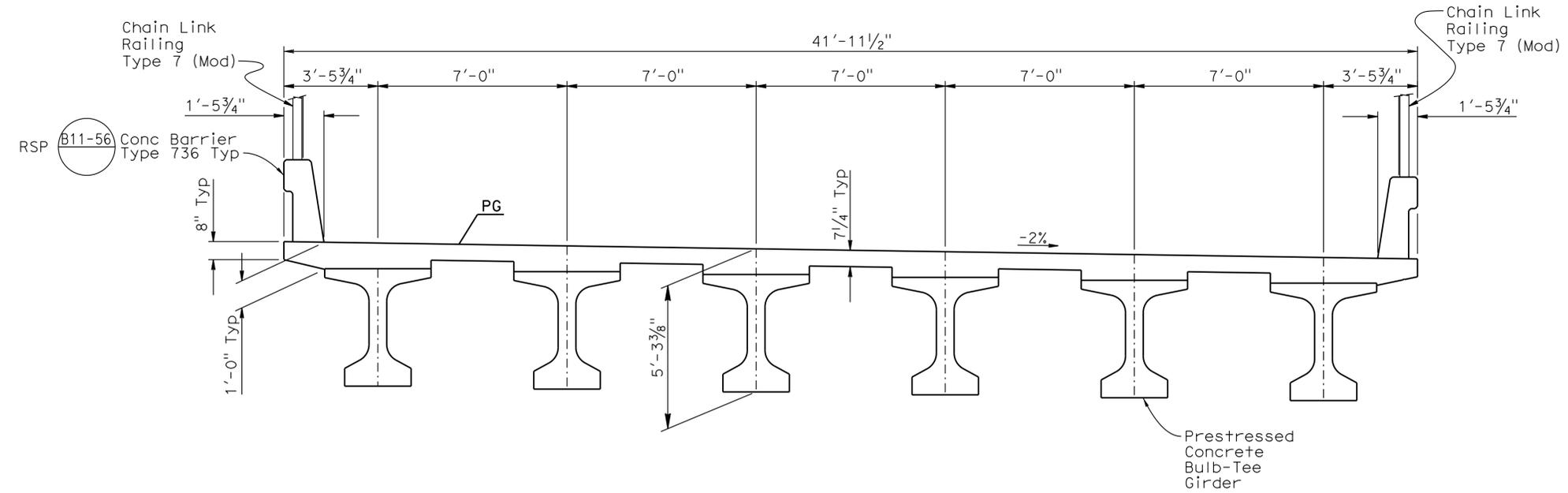
PART TYPICAL SECTION
 $\frac{3}{4}'' = 1' - 0''$

- NOTES:
1. Typical Section for Spans 1, 2, 3, & 5. For Span 4 Typical Section, see "TYPICAL SECTION BULT-TEE GIRDER" sheet.
 2. For Chain Link Railing details, see "CHAIN LINK RAILING TYPE 7 (MOD)" sheet.

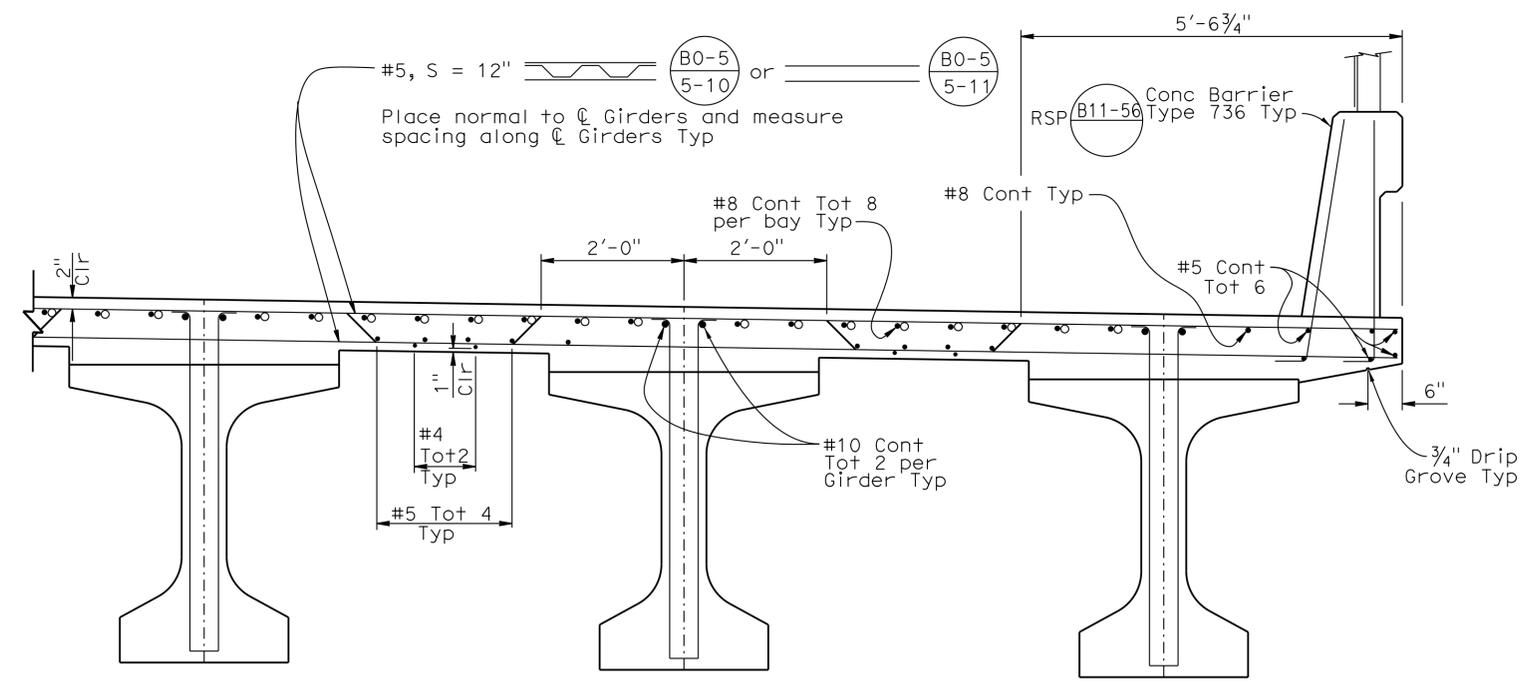
LEGEND:
 o Additional Top Reinf, see "ADDITIONAL TOP REINFORCEMENT" sheet

DESIGN BY R. Stiltz CHECKED A. McPhee DETAILS BY G. Hallstrom CHECKED A. McPhee QUANTITIES BY A. McPhee CHECKED R. Kirkland	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0484G POST MILE 43.5	VICTORVILLE SEPARATION & OVERHEAD TYPICAL SECTION "I" GIRDERS	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 03-16-09 4-06-13 9-30-13	SHEET 10 OF 26
	STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	FILE => 540484_gk+s10.dgn	USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:37		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	750	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER No. C65738 Exp. 9/30/15 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 SECTION
 $\frac{3}{8}'' = 1'' - 0''$



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

- NOTES:
1. Typical Section for Span 4 only. For Spans 2, 3, 5, 6 Typical Section, see "TYPICAL SECTION 'I' GIRDERS" sheet.
 2. For Chain Link Railing details, see "CHAIN LINK RAILING TYPE 7 (MOD)" sheet.
- LEGEND:
- o Additional Top Reinf, see "ADDITIONAL TOP REINFORCEMENT" sheet

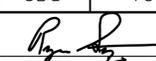
DESIGN	BY R. Stiltz	CHECKED A. McPhee
DETAILS	BY G. Hallstrom	CHECKED A. McPhee
QUANTITIES	BY A. McPhee	CHECKED R. Kirkland

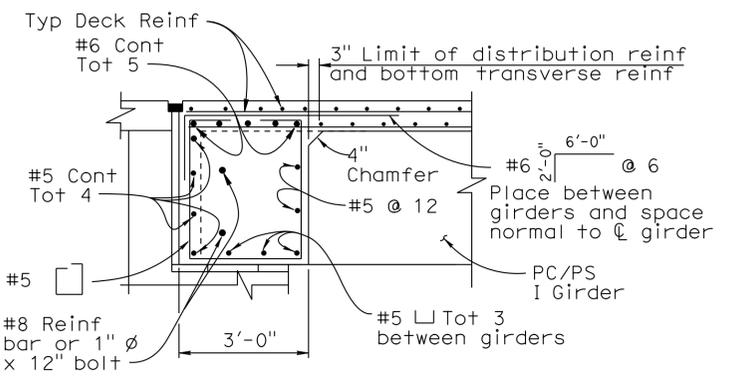
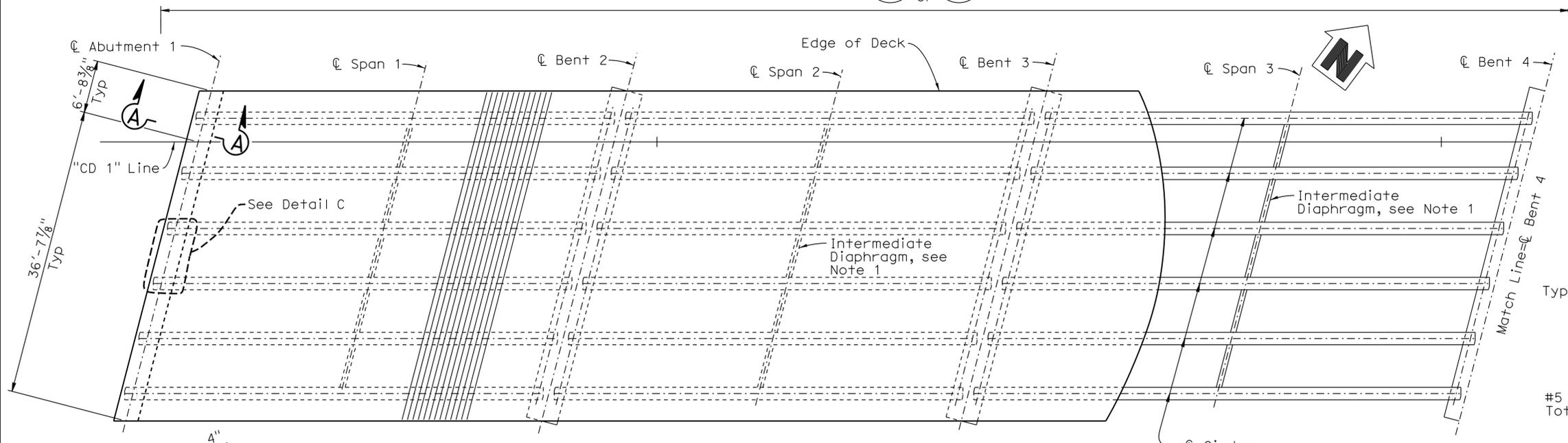
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 10

BRIDGE NO. 54-0484G
 POST MILE 43.5
VICTORVILLE SEPARATION & OVERHEAD
TYPICAL SECTION BULB-TEE GIRDERS

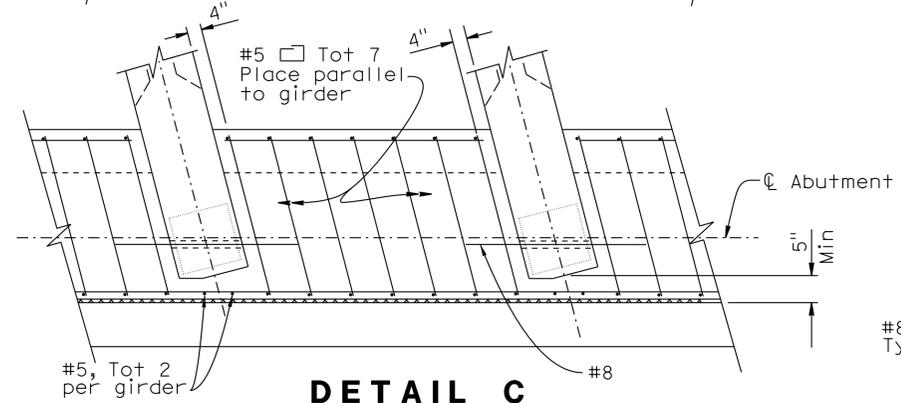
B0-5
5-10 or B0-5
5-11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	751	824
 REGISTERED CIVIL ENGINEER DATE 11-07-13					
6-23-14 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>					

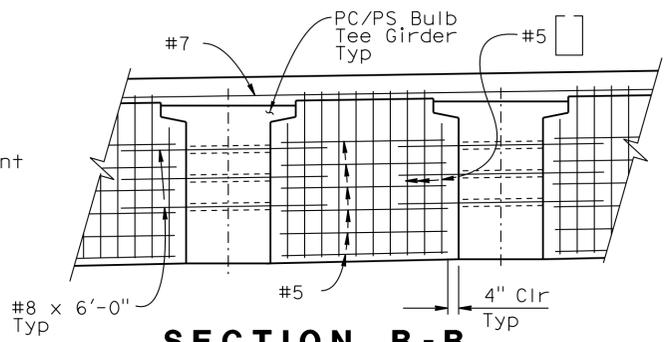


SECTION A-A
No Scale

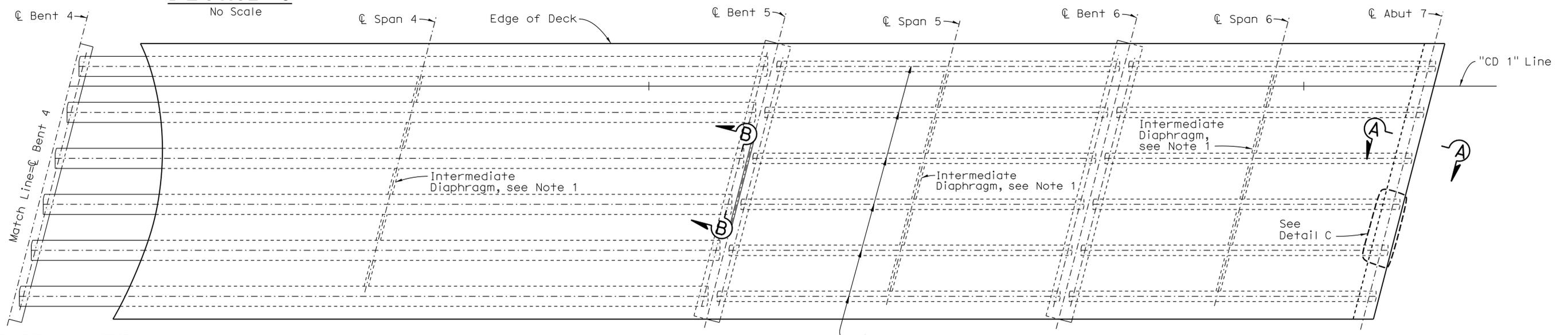
NOTES:
1. For Intermediate Diaphragm, see "PRECAST PRESTRESSED I GIRDER" and "PC/PS BULB-TEE GIRDER (MISCELLANEOUS DETAILS)" sheets.



DETAIL C
No Scale



SECTION B-B
No Scale



GIRDER LAYOUT
1/8"=1'-0"

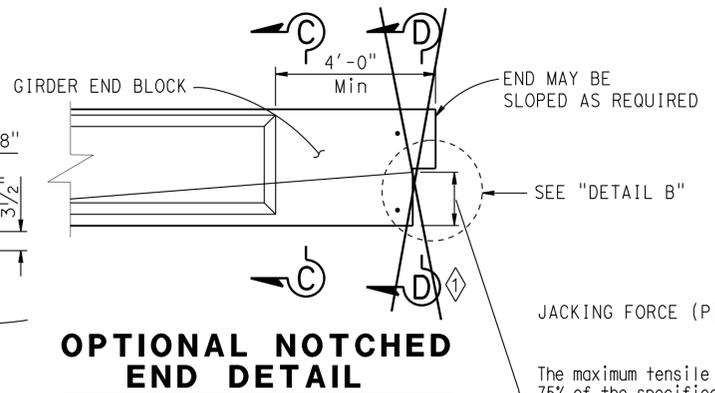
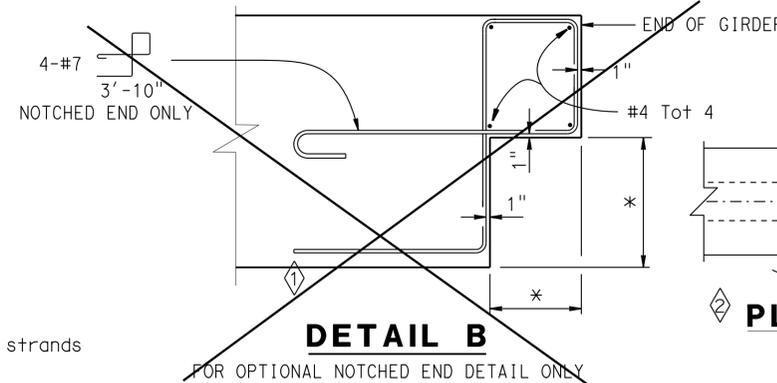
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY R. Stiltz	CHECKED A. McPhee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484G	VICTORVILLE SEPARATION & OVERHEAD GIRDER LAYOUT	
	DETAILS	BY G. Hallstrom	CHECKED A. McPhee			POST MILE	43.5		
	QUANTITIES	BY A. McPhee	CHECKED R. Kirkland			CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS								REVISION DATES: 7-04-13, 4-06-13, 5-23-13, 7-08-13, 8-06-13	SHEET 12 OF 26

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:38

CLEARANCES FOR PRETENSIONED STRANDS

1. Strands may be bundled in groups consisting of 3 vertically, 2 horizontally and separated at the ends
2. The Min distance "S" between groups or individual strands is 1/2" for 3/8" ϕ strands, 1 3/4" for 1/2" ϕ strands, 2" for 0.6" ϕ strands
3. "S" is measured between centers of adjacent strands
4. Approval by the Engineer is required for deviation



GENERAL NOTES

JACKING FORCE (P): The jacking force required at the point of control along the span. The jacking force does not include any fabrication specific losses.

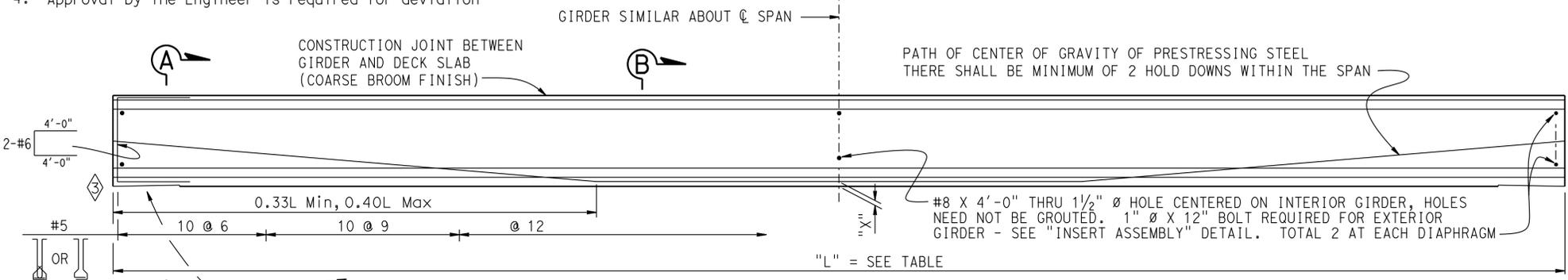
The maximum tensile stress in the prestressing steel upon release shall not exceed 75% of the specified minimum ultimate tensile strength of the prestressing steel. The maximum temporary tensile stress (jacking stress) in the prestressing steel shall not exceed 80% of the specified minimum ultimate tensile strength of the prestressing steel.

CONCRETE STRENGTH: f'_{ci} is at time of initial stressing
 f'_c is at 28 days

DEFLECTION COMPONENTS: Informational - to be used in setting screed line elevations

Screed line elevations for deck concrete will be determined by the Engineer. Contractor may interpolate "P" and "X" values between limits shown, as approved by the Engineer.

Use epoxy coated reinforcement in Environmental Area III

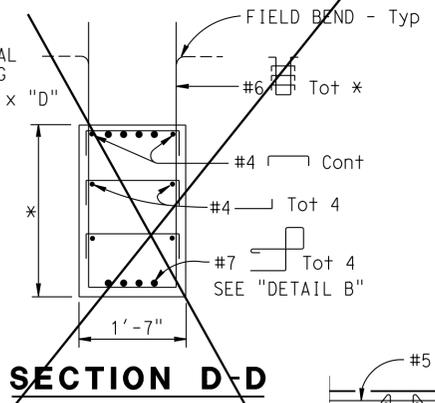
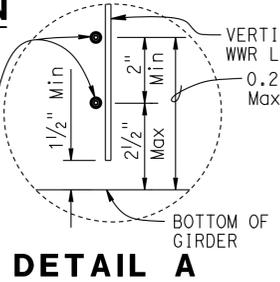


Girder location or designation and length	Jacking Force (P) (Kips)		"Y" (in)	Concrete Strength (ksi)		Midspan Dead Load Deflection (inches)	
	"X"			f'_{ci}	f'_c	Deck	Rail
Span 1 L=53'-4 1/2"	4" 6"	350 360	24"	4	5	0.13	0.02
Span 2 L=52'-1 1/2"	4" 6"	350 360	24"	4	5	0.12	0.02
Span 3 L=62'-1 1/2"	4" 6"	350 360	24"	4	5	0.24	0.02
Span 5 L=52'-4 1/2"	4" 6"	350 360	24"	4	5	0.12	0.02
Span 6 L=46'-10 1/2"	4" 6"	350 360	24"	4	5	0.08	0.02

Notch bottom of girders, see End Girder Notch Detail on "PC/PS_BULB-TEE GIRDER (MISCELLANEOUS DETAILS)" sheet.

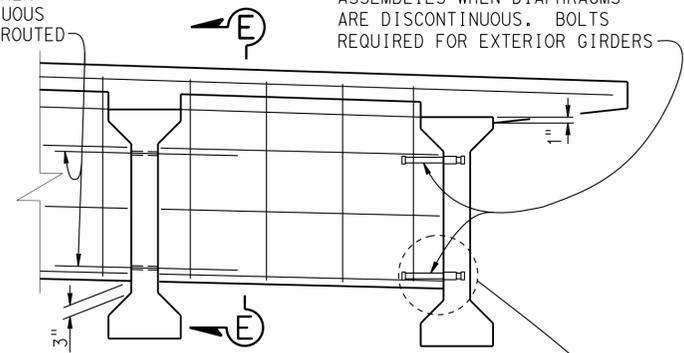
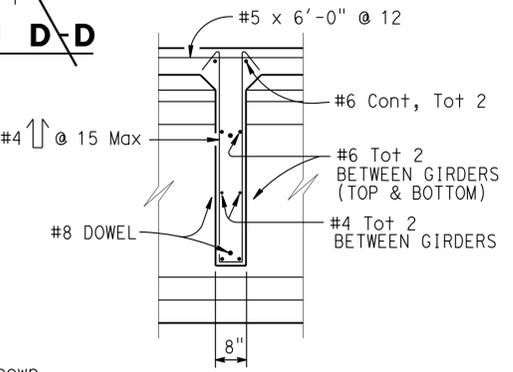
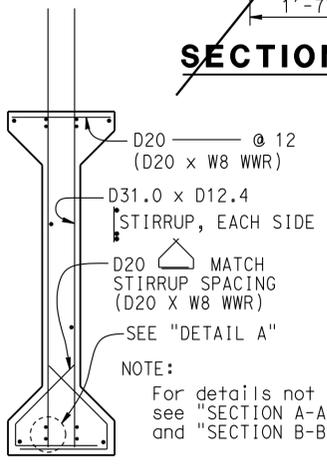
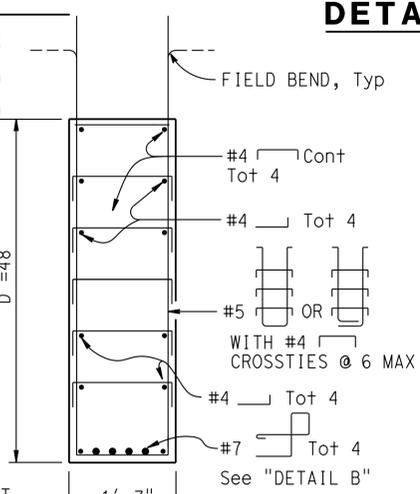
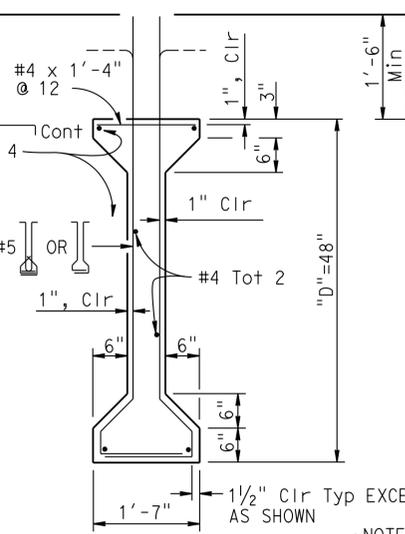
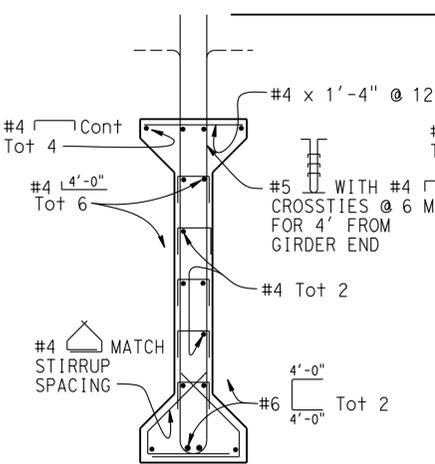
ELEVATION

LONGITUDINAL WIRE AREA MUST BE 40% OR GREATER OF VERTICAL DEFORMED WIRE'S AREA

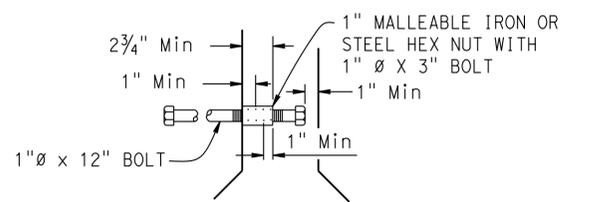


#8 x 4'-0" DOWELS PLACED THROUGH 1/2" ϕ HOLES FORMED IN GIRDER, WHEN DIAPHRAGM IS CONTINUOUS HOLES NEED NOT BE GROUTED

1" ϕ x 12" BOLTS WITH INSERT ASSEMBLIES WHEN DIAPHRAGMS ARE DISCONTINUOUS. BOLTS REQUIRED FOR EXTERIOR GIRDERS



INTERMEDIATE DIAPHRAGM



INSERT ASSEMBLY

SECTION A-A

SECTION B-B

SECTION C-C

OPTIONAL WELDED WIRE REINFORCEMENT (WWR) DETAIL

WWR NOTE: MANUFACTURER'S SHOP DRAWING SHALL CONFORM TO THE REINFORCEMENT SHOWN ON THIS SHEET AS NOTED AND THE SPECIAL PROVISIONS

SPECIAL DETAILS

NO SCALE

- Deleted Detail
- Changed Detail
- Added Detail
- Added Note

REVISED STANDARD DRAWING
 FILE NO. **XS1-120**
 APPROVAL DATE July 2011

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

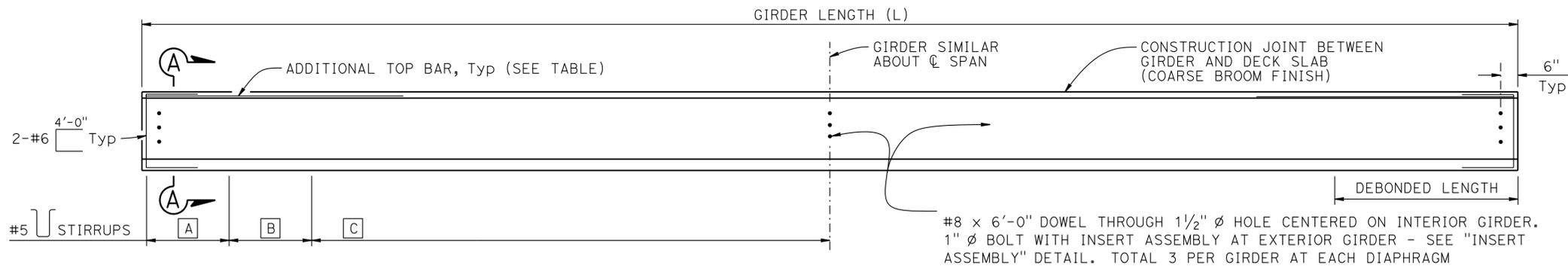
BRIDGE NO. 54-0484G
 POST MILE 43.5
VICTORVILLE SEPARATION & OVERHEAD PRECAST PRESTRESSED I GIRDER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	753	824

REGISTERED CIVIL ENGINEER DATE 11-07-13
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 CIVIL
 STATE OF CALIFORNIA

6-23-14
 PLANS APPROVAL DATE

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

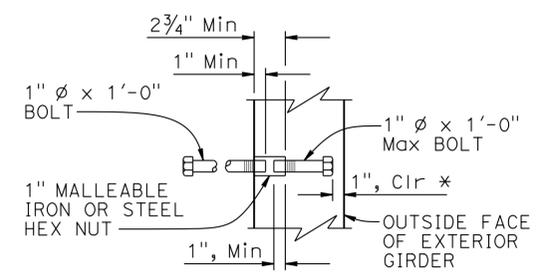


LOCATION	A	B	C
SPAN 4	#5 @ 6"	#5 @ 9"	#5 @ 12"

GIRDER ELEVATION

NOTE:
Girder ends to be cast such that a level surface is provided at bearing pads

LOCATION	GIRDER LENGTH (L)	GIRDER DEPTH (D)	NUMBER OF 0.6" Ø STRANDS	JACKING FORCE (P)	CONCRETE STRENGTH (ksi)		MIDSPAN DEAD LOAD DEFLECTION (In)		ADDITIONAL TOP BAR (EACH END)
					f'ci	f'c	DECK	RAIL	
SPAN 4	105'-2"	4'-4"	42	1846.0 kips (44 kips/STRAND)	4.5	6	1.5	0	#8 x 20 Tot 4

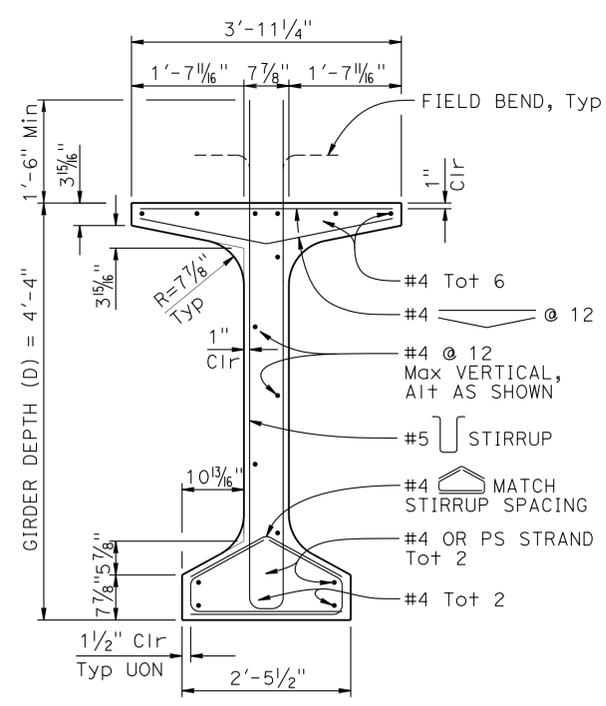


* DIMENSION MAY BE INCREASED WHEN INSERT ASSEMBLY IS USED AT END BLOCK

INSERT ASSEMBLY

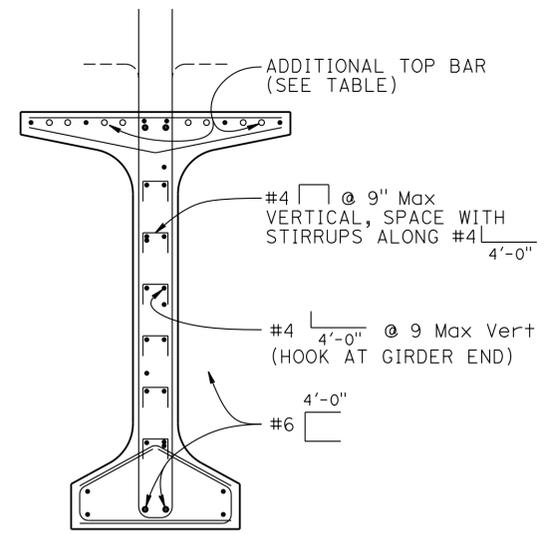
PRESTRESSING NOTES

- 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 temporary tensile stress (jacking stress) in the prestressing steel shall not exceed 80% of the specified minimum ultimate tensile strength of the prestressing steel
- Concrete strength:
f'ci is at time of initial stressing
f'c is at 28 days
- Deflection components are informational and will be used to set screed line elevations
- Screed line elevations for deck concrete will be determined by the Engineer
- Prestressing strand shall be 270 ksi low relaxation



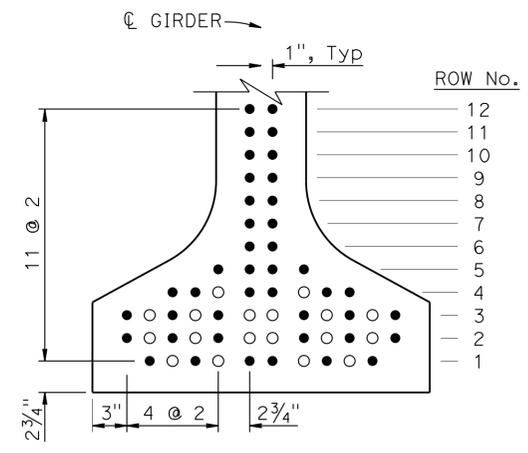
TYPICAL GIRDER SECTION

NOTE: For "WELDED WIRE REINFORCEMENT (WWR) ALTERNATIVE", see "PC/PS BULB-TEE GIRDER (MISCELLANEOUS DETAILS)" sheet



SECTION A-A

NOTE:
For details not shown, see "TYPICAL GIRDER SECTION" detail



LEGEND:
● DENOTES CONTINUOUSLY BONDED STRAND LOCATION
○ DENOTES PERMISSIBLE DEBONDED STRAND LOCATION

STRAND TEMPLATE & DEBONDING PATTERN

- NOTES:
- Strands shall be placed as low as possible in the strand template and symmetrical about CL Girder
 - No more than 33% of the total number of strands and 50% of the strands per horizontal row may be debonded
 - Strand locations may be adjusted as approved by the Engineer

GIRDER A, B, C, (E+c)			
ROW No.	TOTAL No. OF STRANDS	No. OF DEBONDED STRANDS	DEBONDED LENGTH
12			
11			
10			
9			
8			
7			
6			
5			
4	8		
3	12	2	40
2	12	2	30
1	10	4	20

NO SCALE

STANDARD DRAWING

FILE NO. **xs1-121-1**

APPROVAL DATE July 2011

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

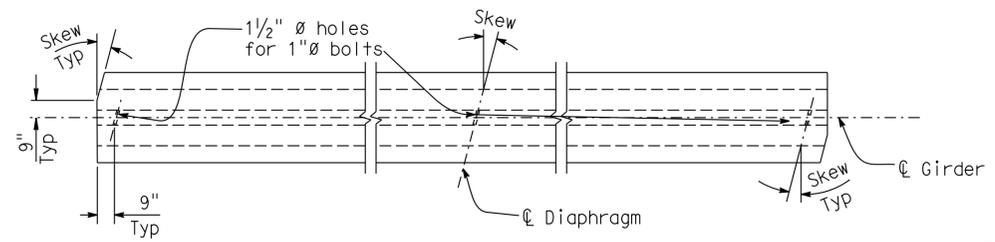
BRIDGE NO. 54-0484G

POST MILE 43.5

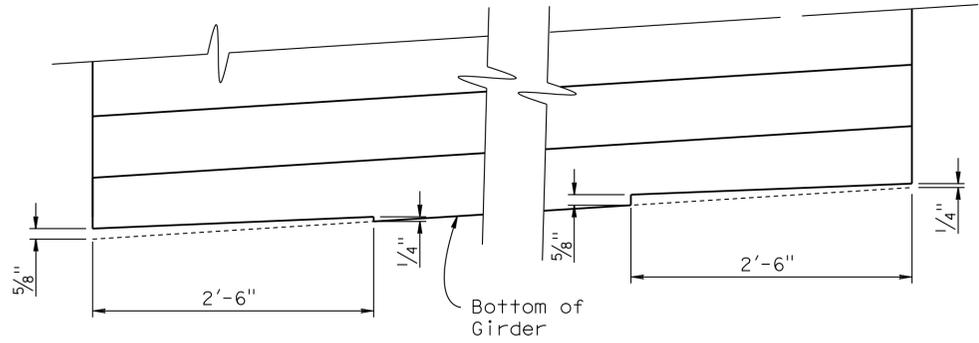
VICTORVILLE SEPARATION & OVERHEAD

PC/PS BULB-TEE GIRDER (DEBONDED STRANDS)

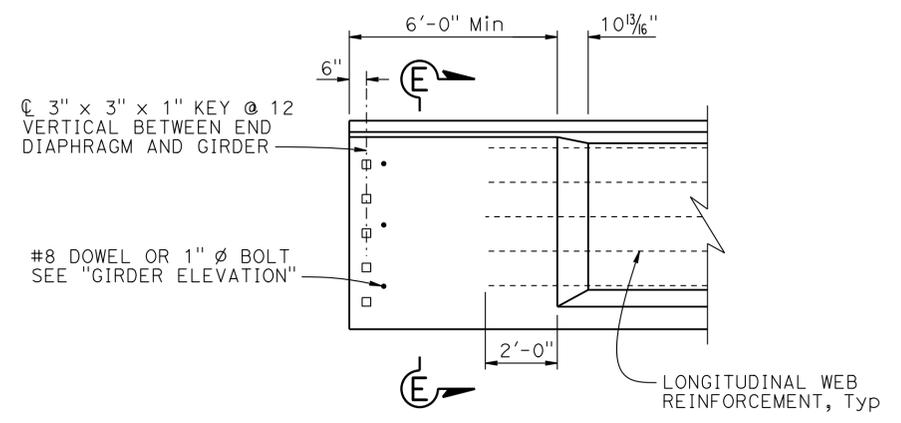
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	754	824
 REGISTERED CIVIL ENGINEER			11-07-13	DATE	
6-23-14			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



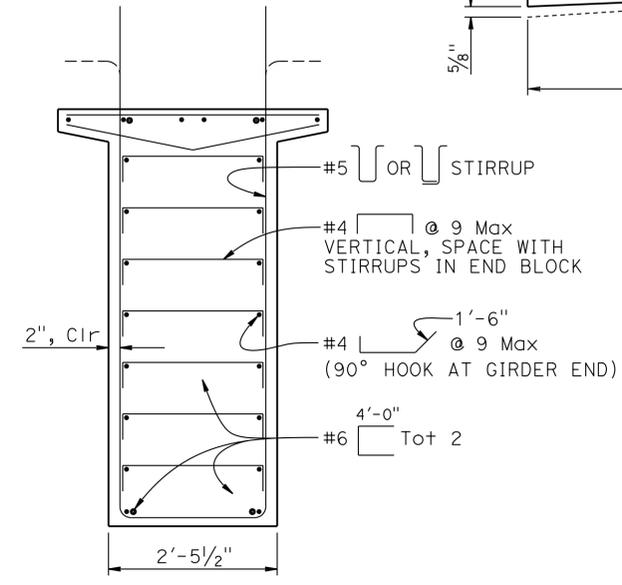
END GIRDER AT BENT-ANGLE DETAIL
No Scale



END GIRDER NOTCH DETAIL
No Scale



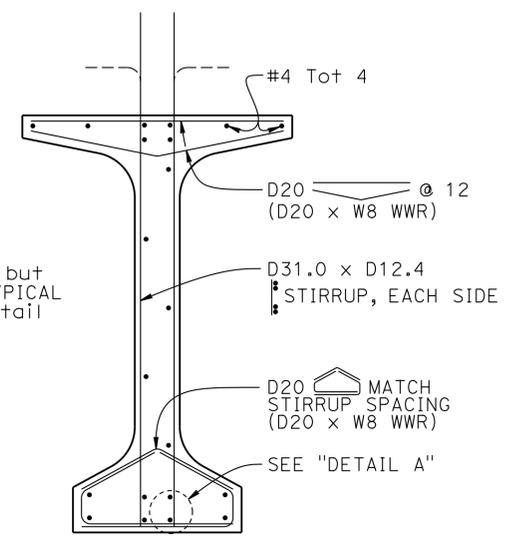
OPTIONAL END BLOCK - ELEVATION



NOTE:
For details not shown, see "TYPICAL GIRDER SECTION" detail

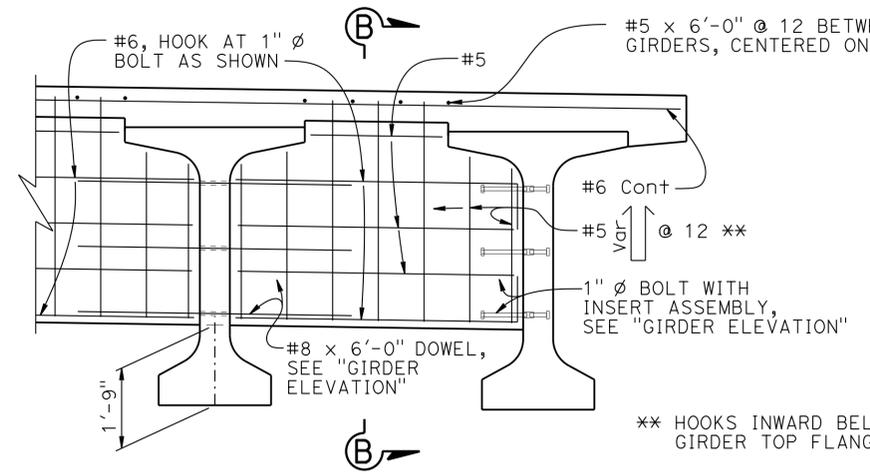
SECTION E-E

- NOTES:
- For details shown but not noted, see "TYPICAL GIRDER SECTION" detail
 - W8 WWR not shown

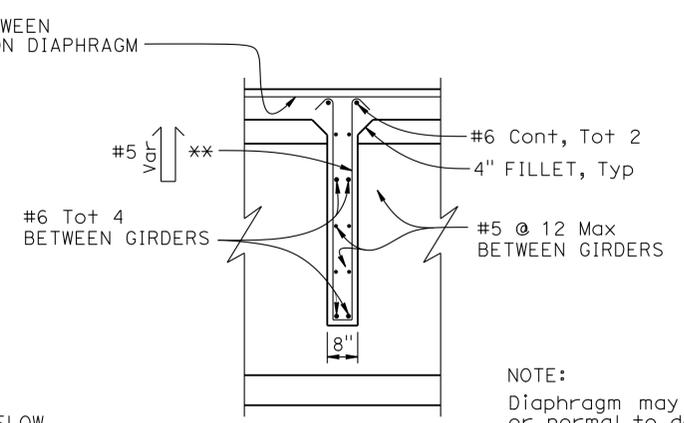


WELDED WIRE REINFORCEMENT (WWR) ALTERNATIVE

NOTE:
For "GIRDER ELEVATION" and "TYPICAL GIRDER SECTION", see "PC/PS BULB-TEE GIRDER (DEBONDED STRANDS)" sheet

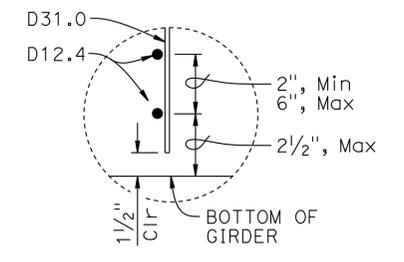


INTERMEDIATE DIAPHRAGM



NOTE:
Diaphragm may be vertical or normal to deck grade

SECTION B-B



DETAIL A

- NOTES:
- Bottom of stirrup WWR detail shown, top similar
 - Longitudinal wire area shall be 40% or greater of vertical deformed wire's area

SPECIAL DETAILS NO SCALE

REVISED STANDARD DRAWING	
FILE NO. xs1-121-2	APPROVAL DATE <u>July 2011</u>

Added Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

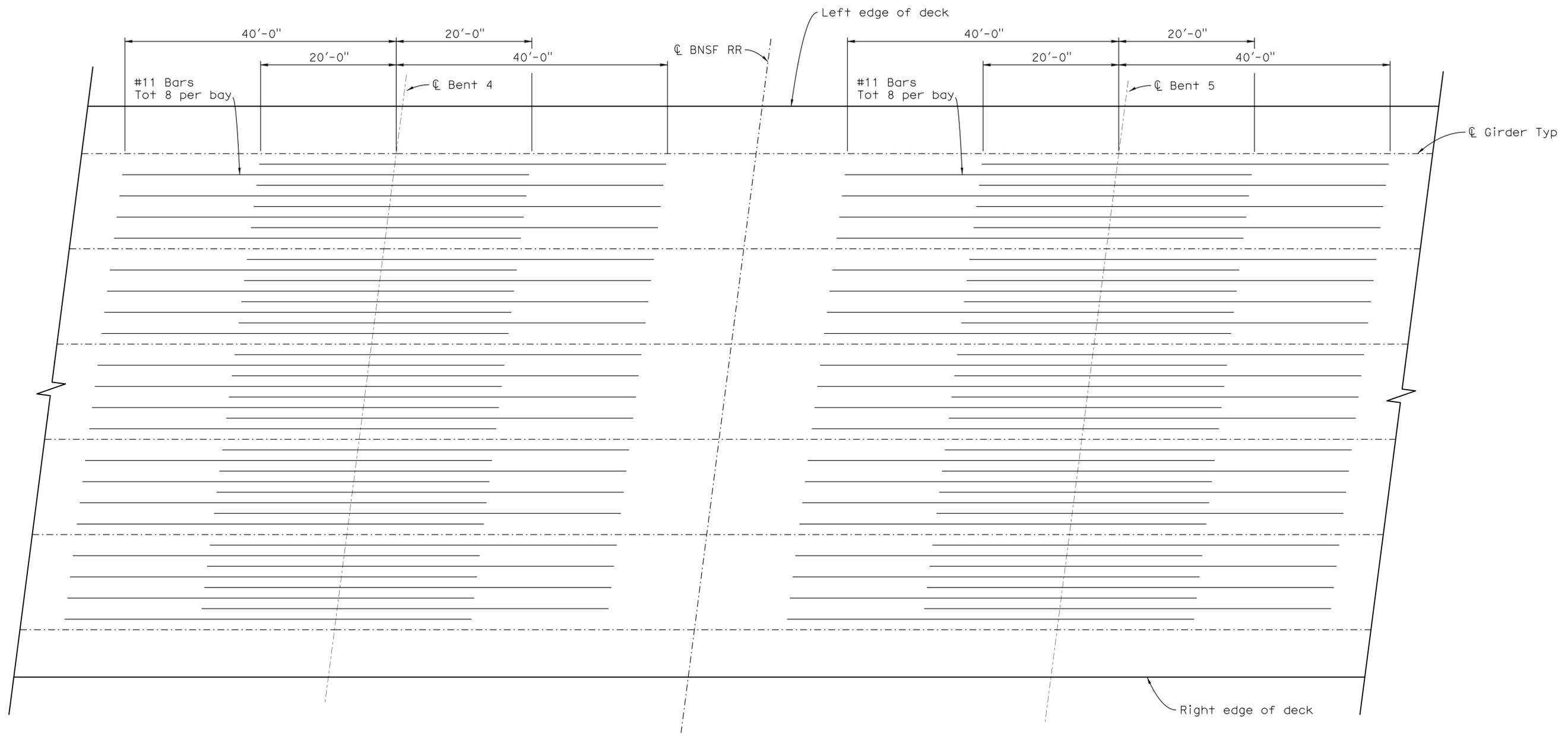
BRIDGE NO. 54-0484G
POST MILE 43.5

VICTORVILLE SEPARATION & OVERHEAD
PC/PS BULB-TEE GIRDER (MISCELLANEOUS DETAILS)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	755	824

 11-07-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 CIVIL
 STATE OF CALIFORNIA



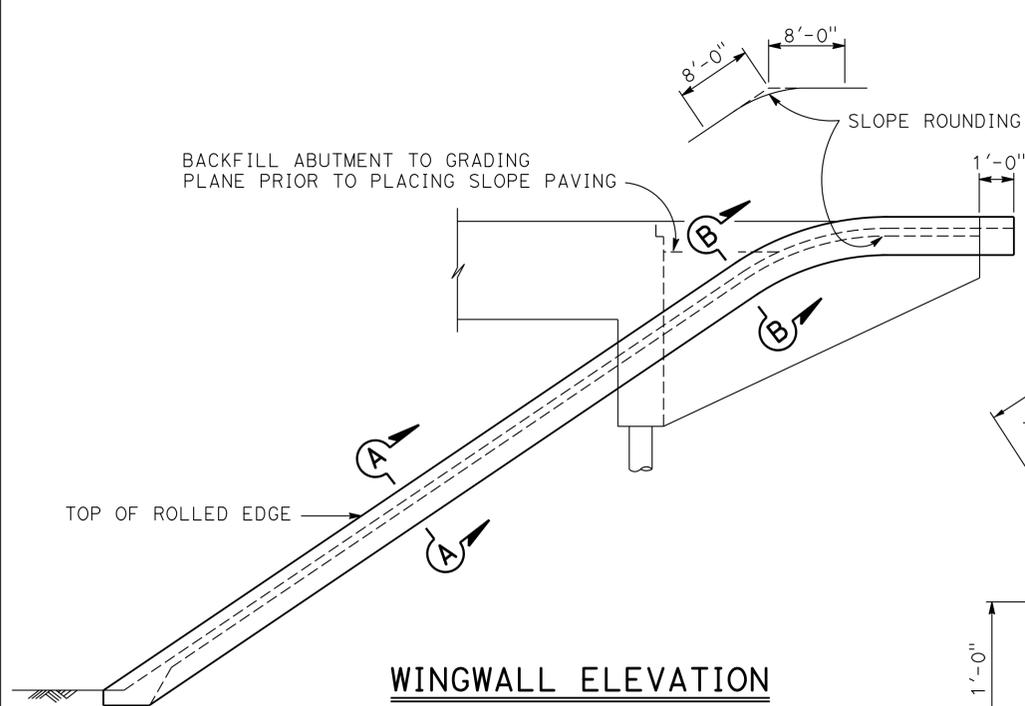
PART PLAN
 Horiz 1/8"=1'-0"
 Vert 1/4"=1'-0"

- NOTES:
- Bundle #11 bars with #8 Cont bars.
 - For #11 additional top Reinf, no splicing allowed.

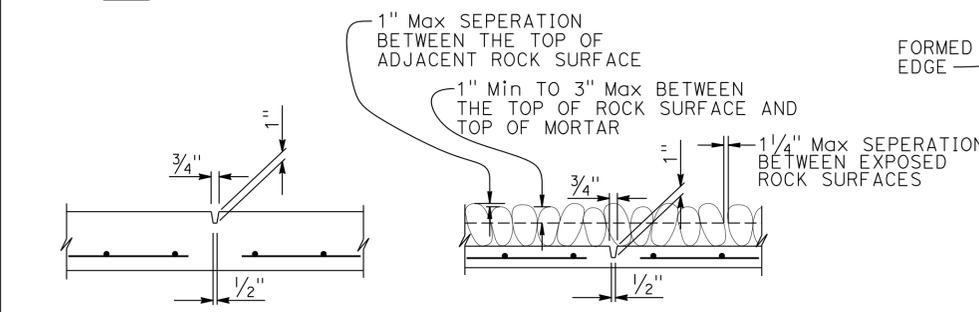
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY R. Stiltz	CHECKED A. McPhee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484G	VICTORVILLE SEPARATION & OVERHEAD ADDITIONAL TOP REINFORCEMENT		
	DETAILS	BY G. Hallstrom	CHECKED A. McPhee			POST MILE	43.5			
	QUANTITIES	BY A. McPhee	CHECKED R. Kirkland							
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08 EA 3555V1		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 03-16-09 4-02-13	SHEET 16 OF 26

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:38

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	757	824
 REGISTERED CIVIL ENGINEER			11-07-13	DATE	
6-23-14			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of these drawings or specifications.					

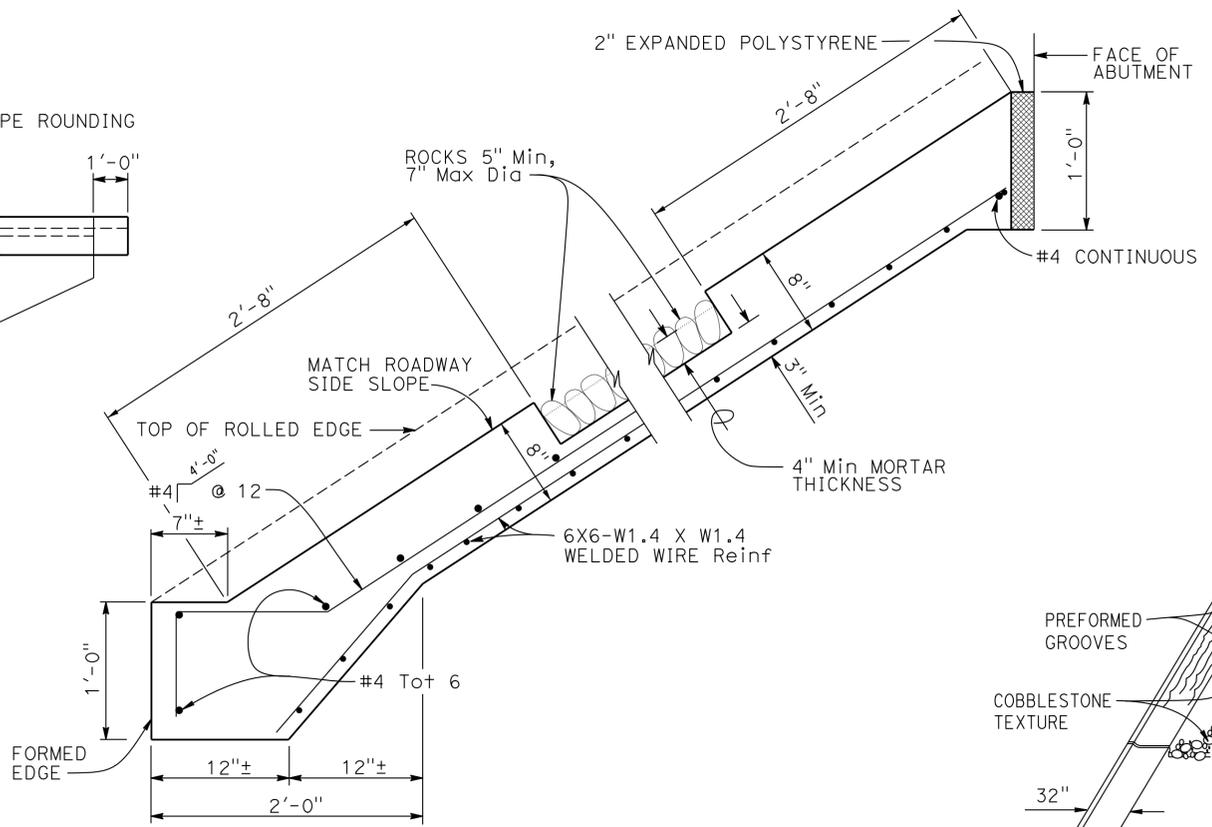


WINGWALL ELEVATION

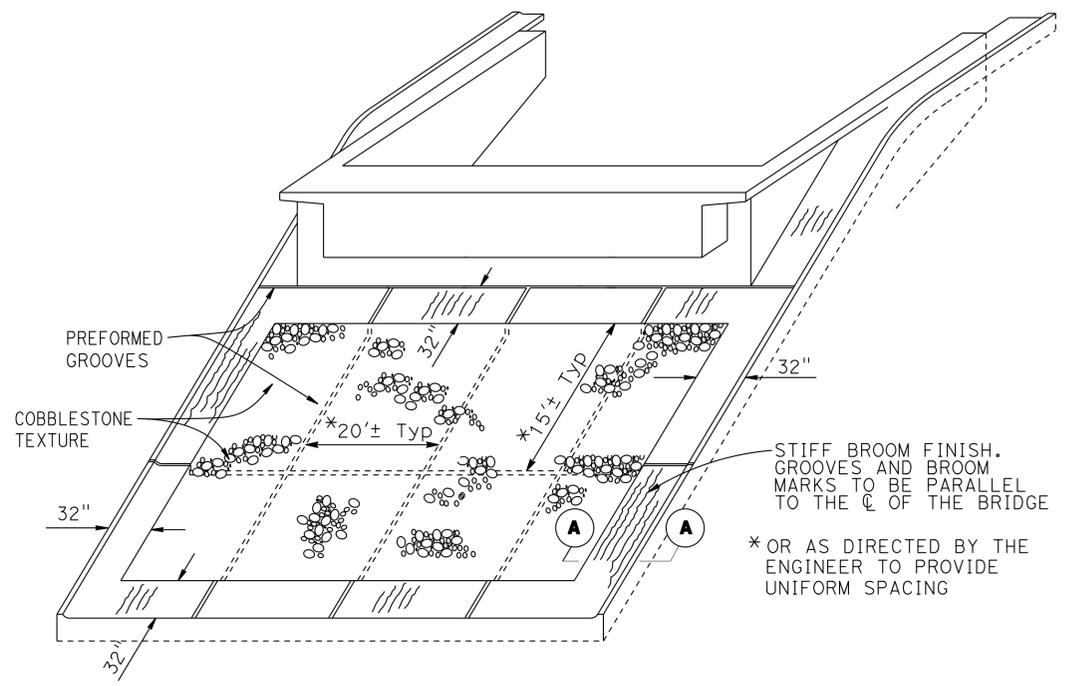


PREFORMED GROOVE AT PERIMETER

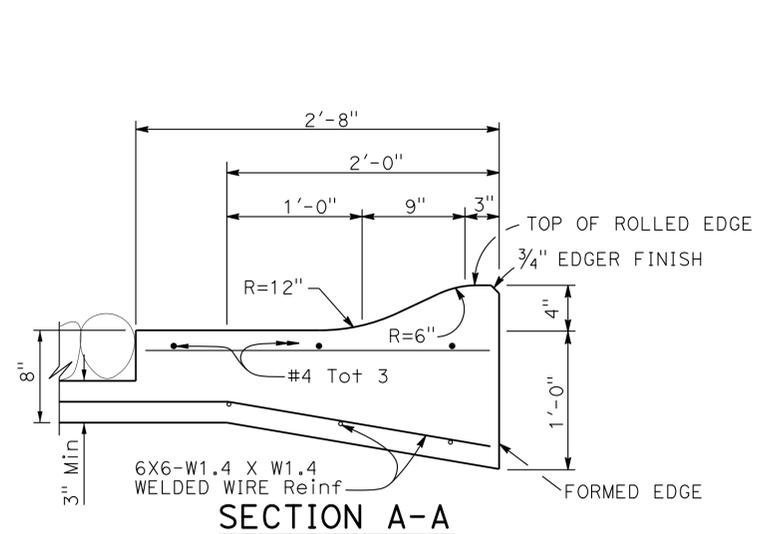
PREFORMED GROOVE AT COBBLE BED



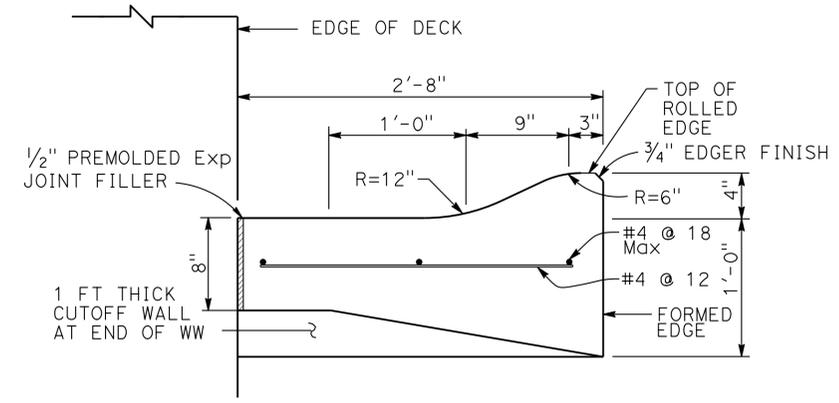
TYPICAL SECTION - CONCRETE PAVING



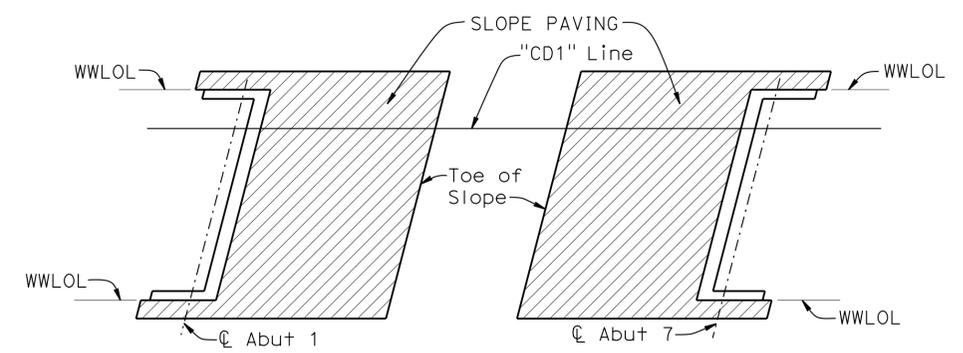
PICTORIAL VIEW OF TYPICAL INSTALLATION



SECTION A-A



SECTION B-B



LIMITS OF SLOPE PAVING

- NOTES:
1. Rocks shall be fully seated in the mortar bed. The mortar surface shall be trimmed to the mid depth of the rocks.
 2. Excess mortar shall be removed and the rocks surfaces shall be cleaned after placement.
 3. Rocks are to be grey in color.
 4. Bottom of slope paving to match toe of fill. Dimensions to be field verified.

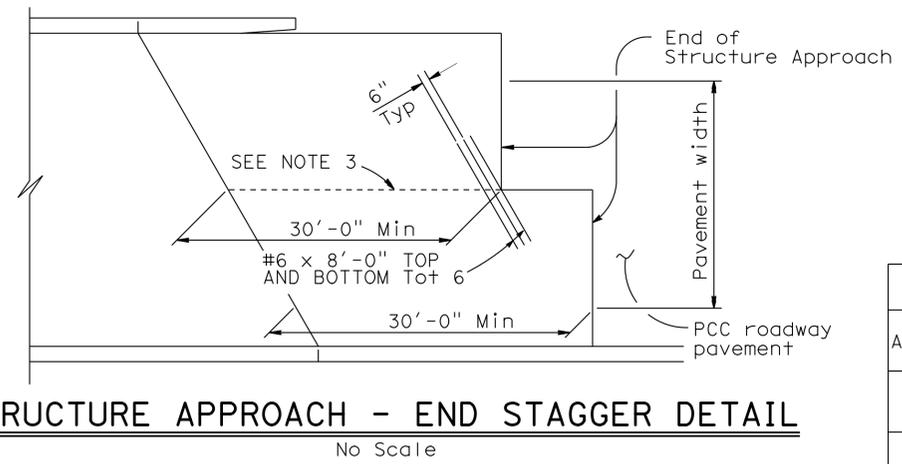
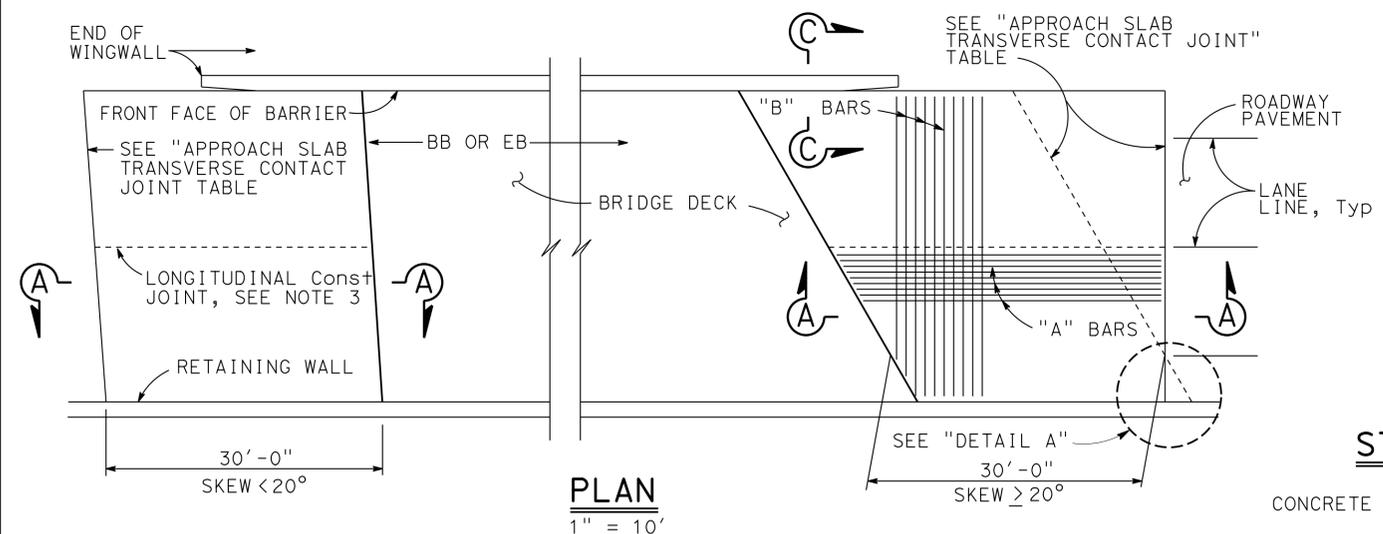
NO SCALE

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY R. Stiltz	CHECKED A. McPhee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484G	VICTORVILLE SEPARATION & OVERHEAD SLOPE PAVING (COBBLESTONE TEXTURE)
	DETAILS	BY G. Hallstrom	CHECKED A. McPhee			POST MILE	43.5	
	QUANTITIES	BY A. McPhee	CHECKED R. Kirkland			UNIT: 3589	PROJECT NUMBER & PHASE: 0800000621	

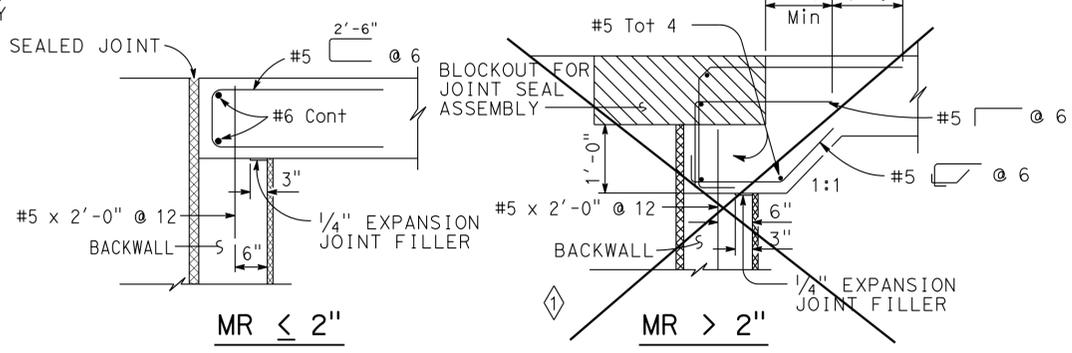
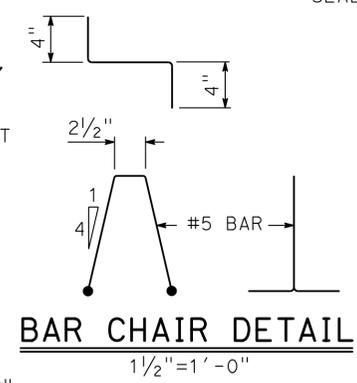
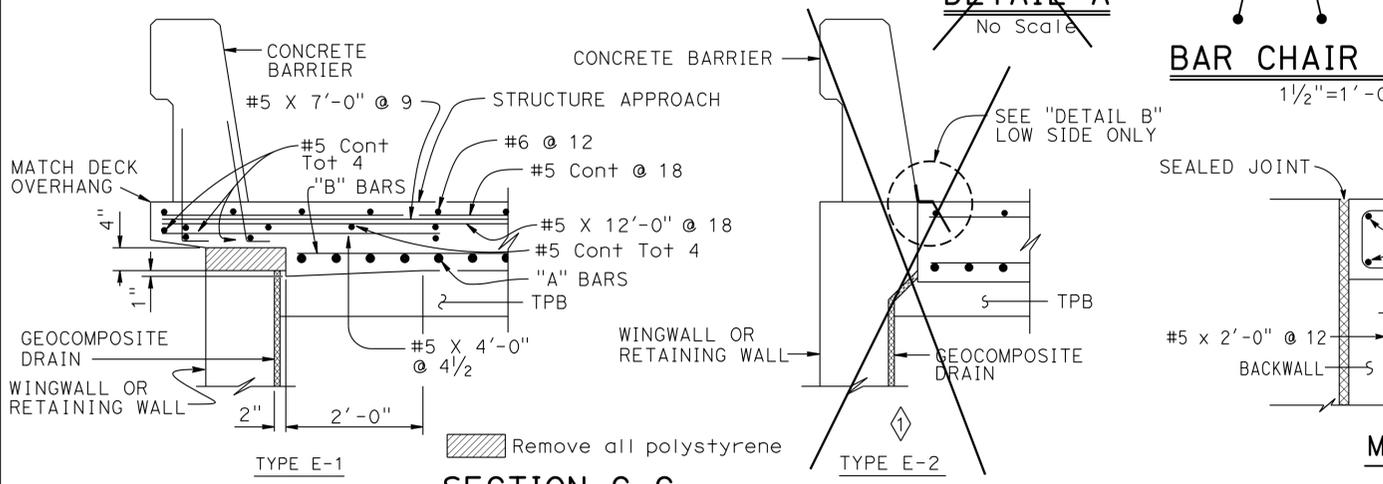
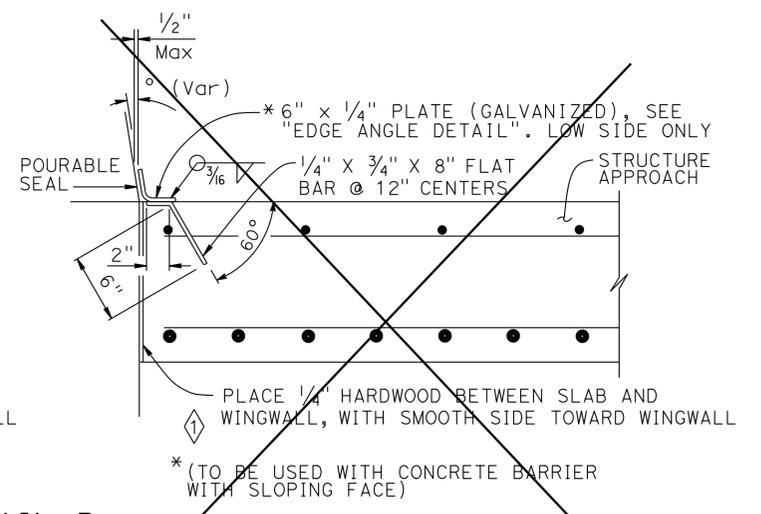
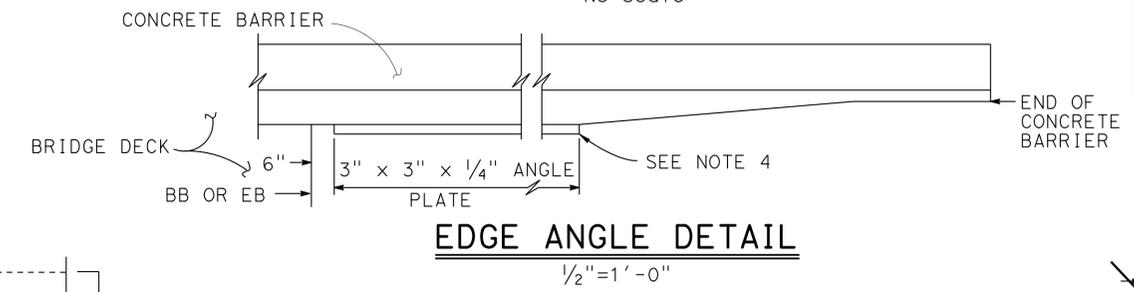
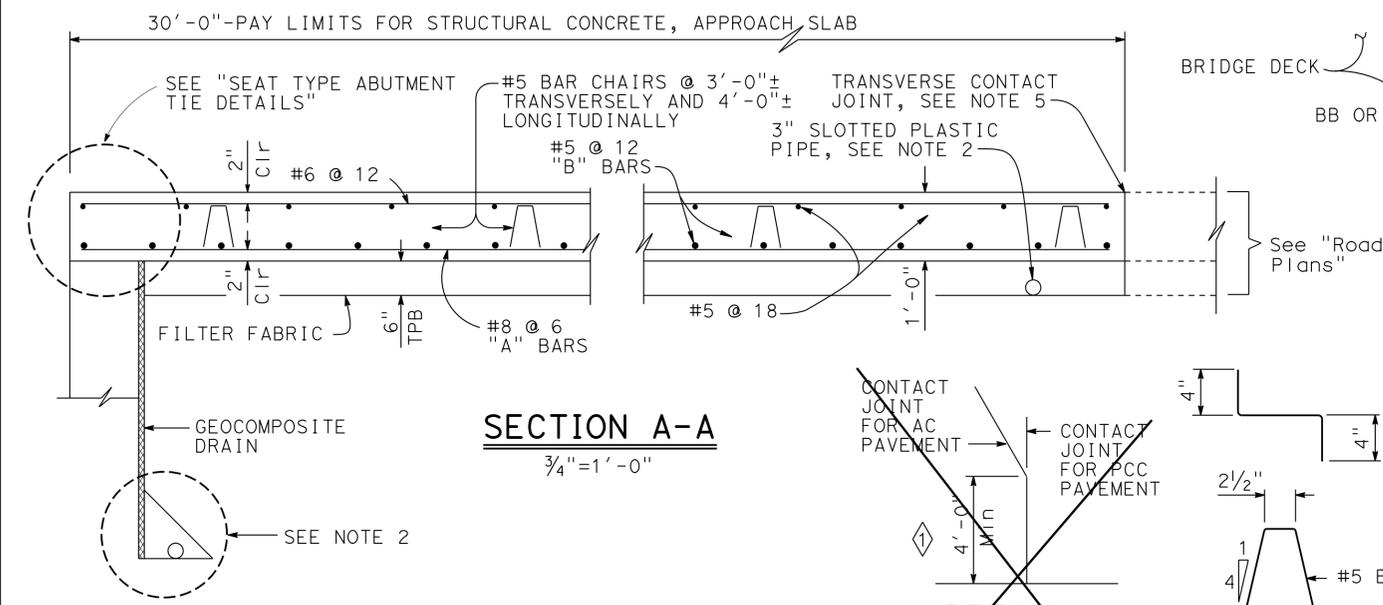
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	758	824

11-07-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 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.



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 roadway.

SPECIAL DETAILS

REVISED STANDARD DRAWING

FILE NO. **xs3-120**

APPROVAL DATE July 2011

Does Not Apply

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

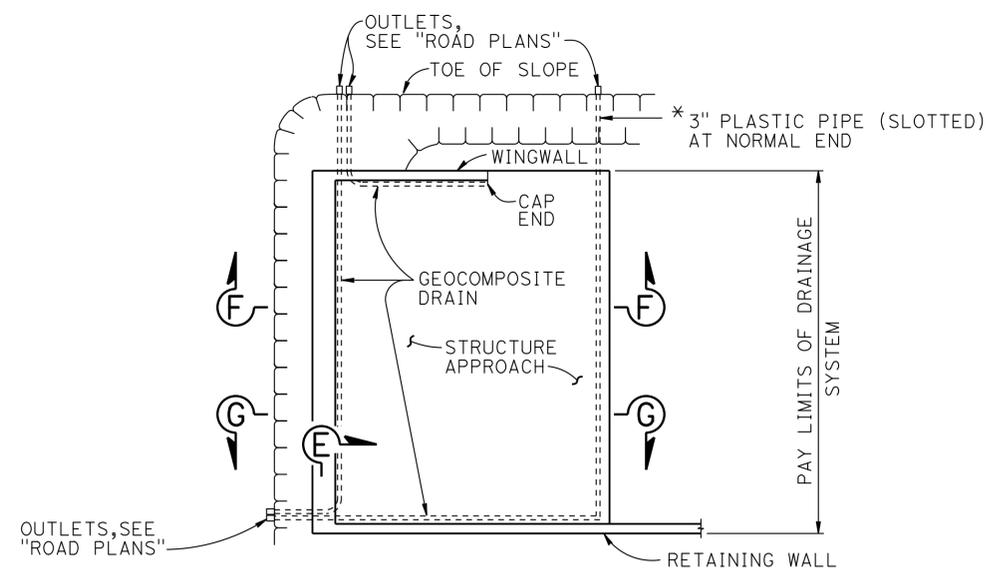
DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 54-0484G
POST MILE 43.5

VICTORVILLE SEPARATION & OVERHEAD
STRUCTURE APPROACH TYPE N(30S)

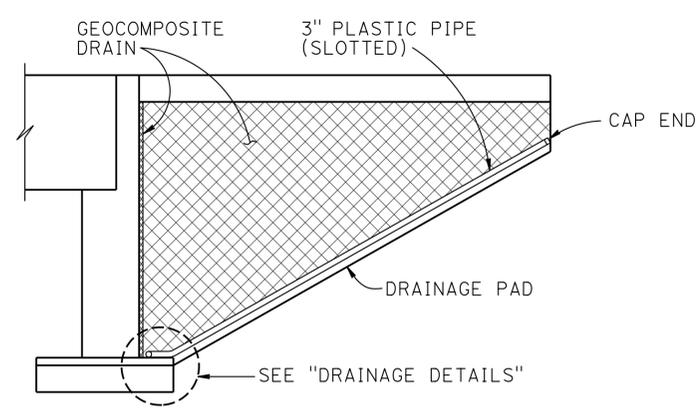
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	759	824
REGISTERED CIVIL ENGINEER			DATE	11-07-13	
PLANS APPROVAL DATE			6-23-14		
No. C65738			Exp. 9/30/15		
CIVIL			STATE OF CALIFORNIA		

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.

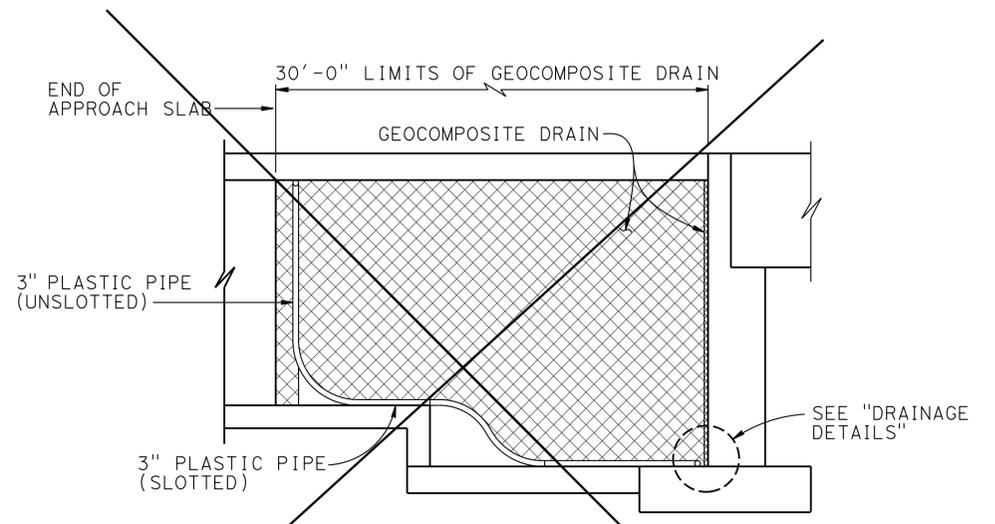


TYPICAL PLAN
1" = 10'

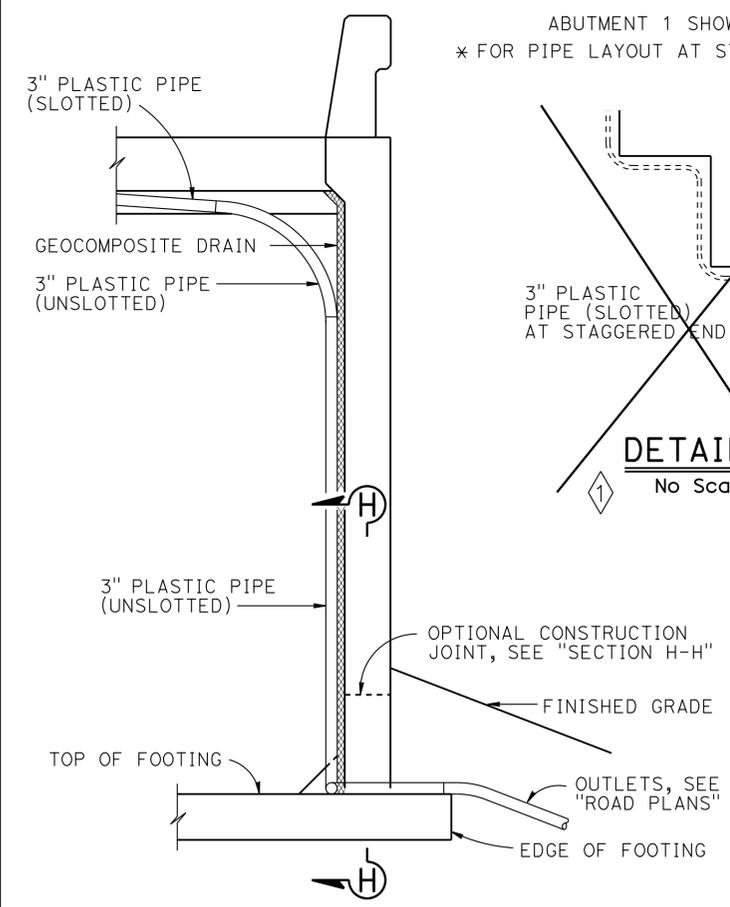
ABUTMENT 1 SHOWN, ABUTMENT 7 SIMILAR
* FOR PIPE LAYOUT AT STAGGERED END, SEE "DETAIL B"



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

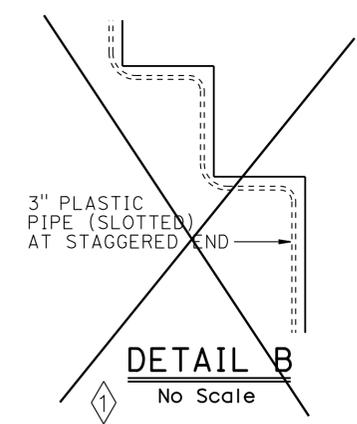


RETAINING WALL WINGWALL DRAINAGE DETAILS
SECTION G-G
1/4" = 1'-0"

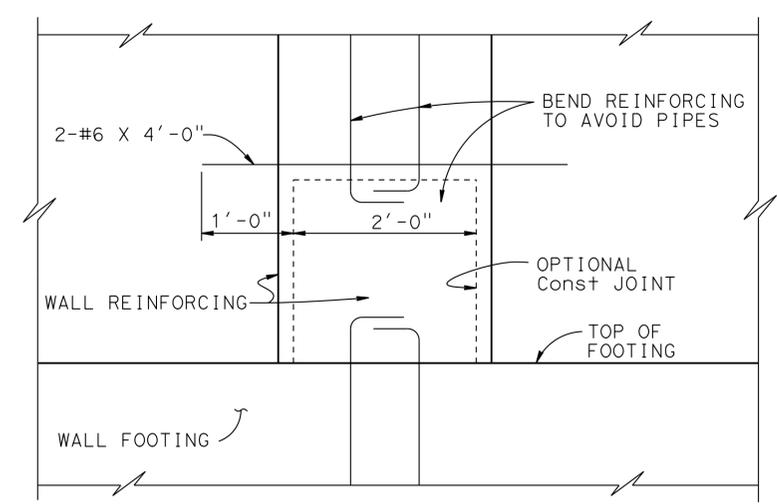


SECTION E-E
1/2" = 1'-0"

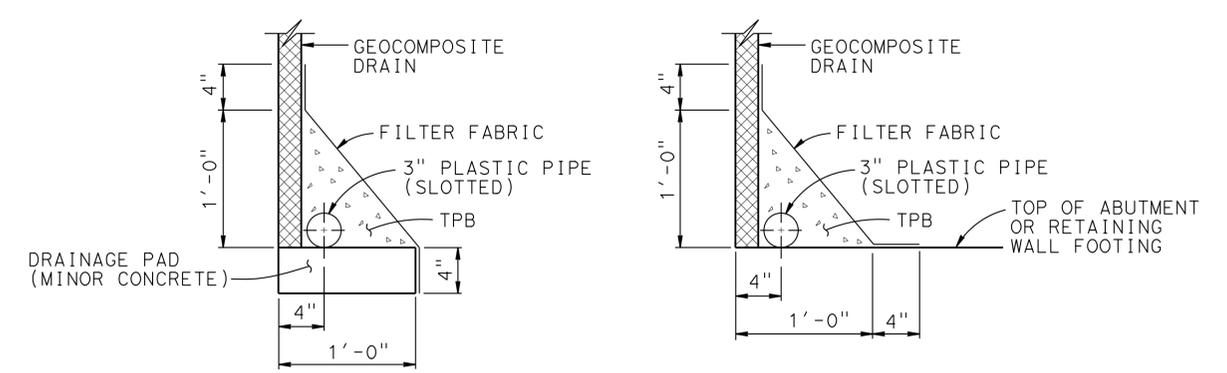
NOTE: Bends and junctions in 3" plastic pipe are 30" radius Min



DETAIL B
No Scale



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



WITHOUT FOOTING **WITH FOOTING**

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

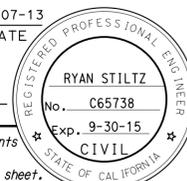
SPECIAL DETAILS

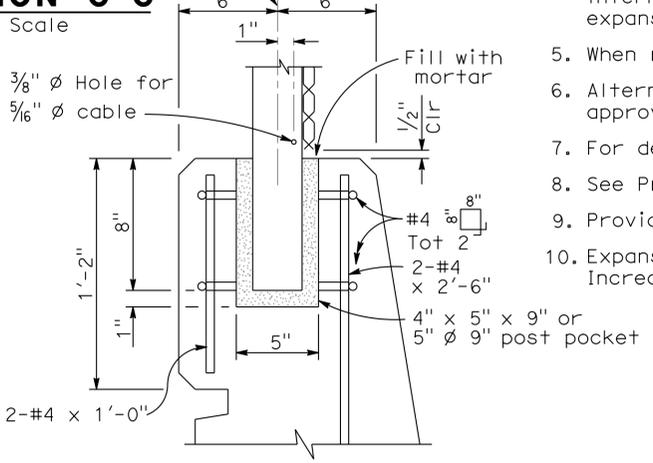
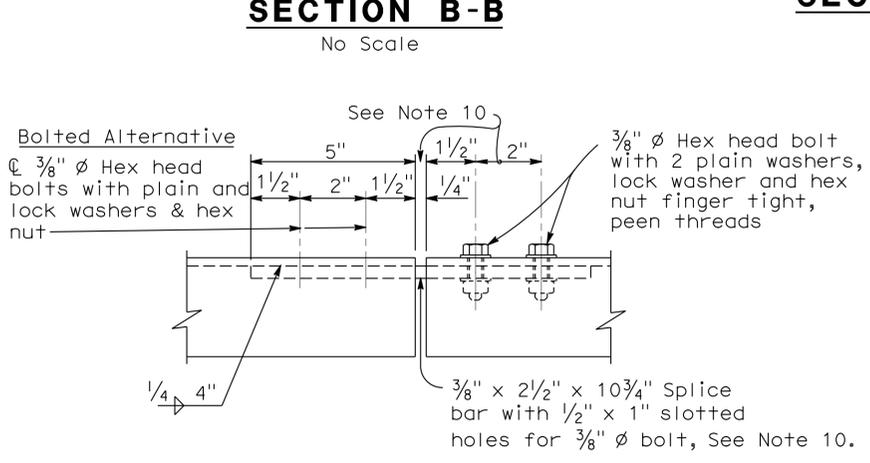
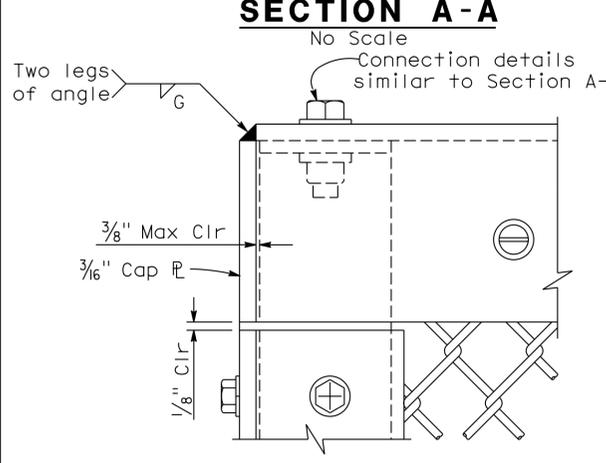
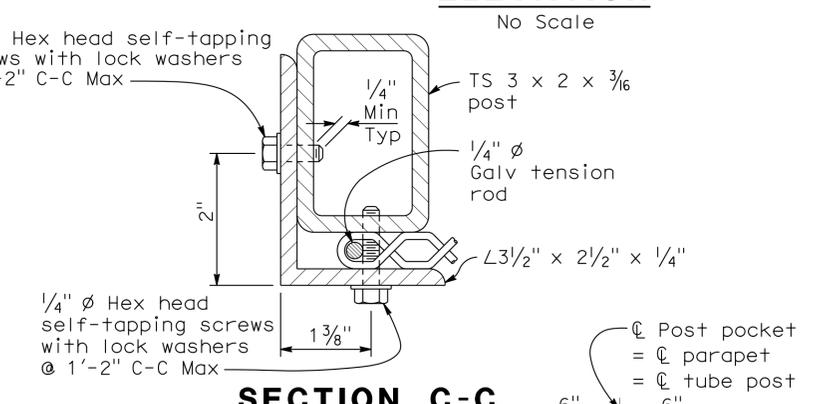
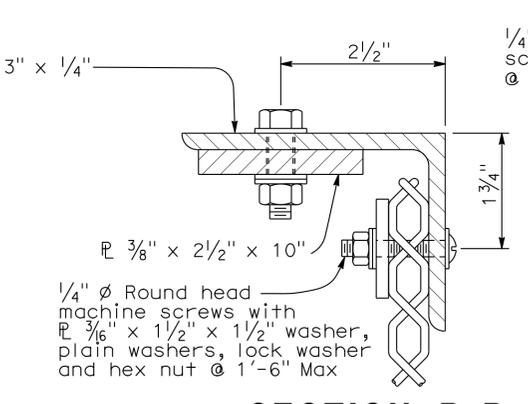
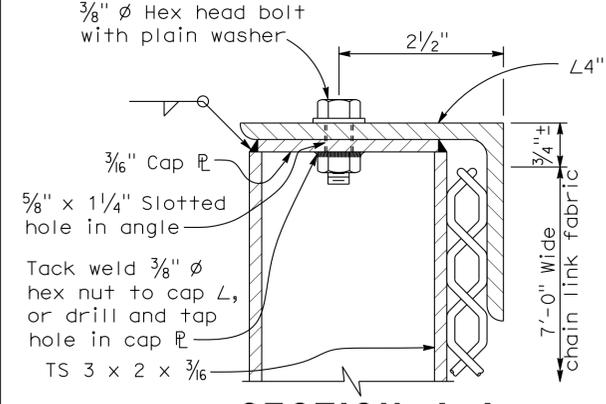
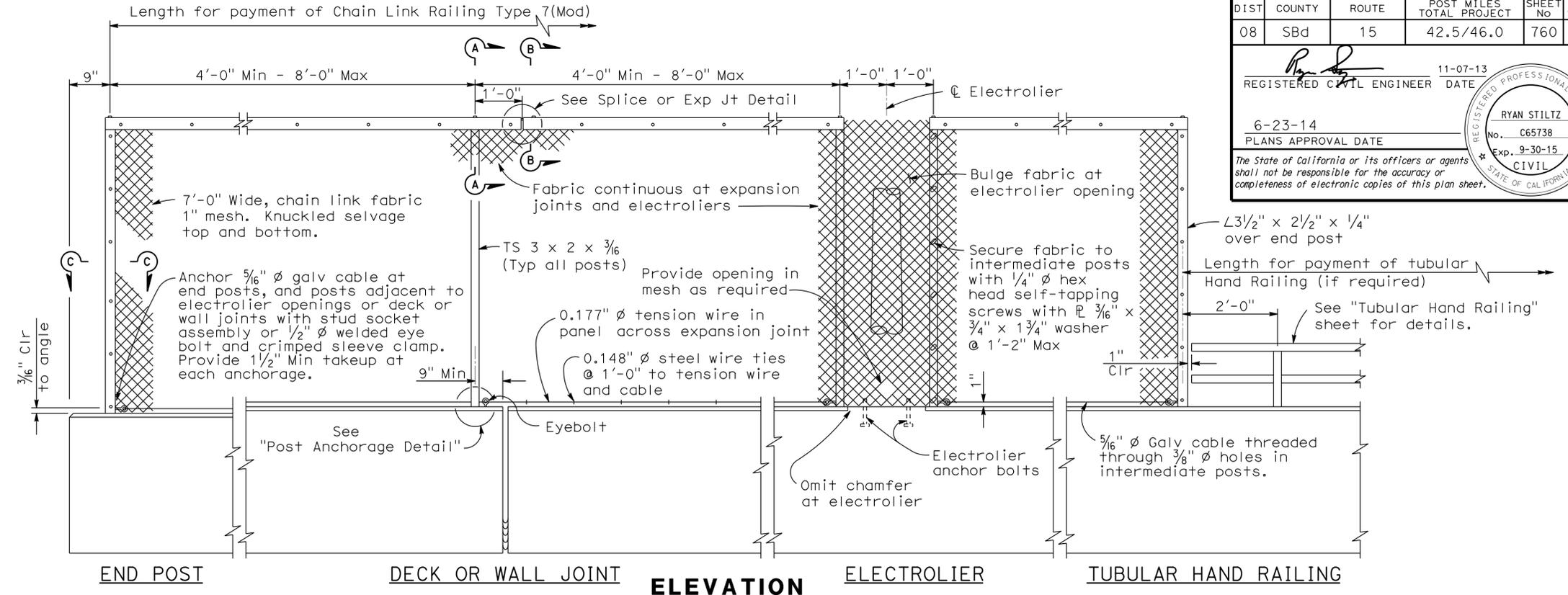
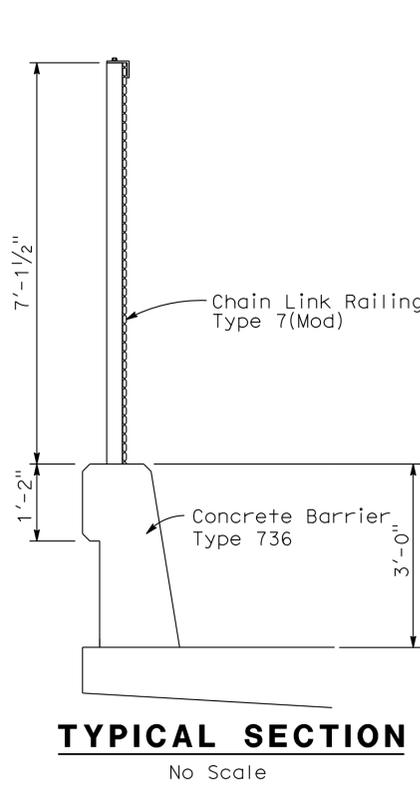
REVISED STANDARD DRAWING	
FILE NO. xs3-110	APPROVAL DATE <u>July 2011</u>

Does Not Apply	Revised Detail
----------------	----------------

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

BRIDGE NO. 54-0484G	VICTORVILLE SEPARATION & OVERHEAD
POST MILE 43.5	STRUCTURE APPROACH DRAINAGE DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	760	824
 REGISTERED CIVIL ENGINEER DATE 11-07-13					
6-23-14 PLANS APPROVAL DATE					
<i>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.</i>					



- NOTES:**
- Railing assembly except chain link fabric to be galvanized after fabrication.
 - Posts shall be vertical.
 - Railing shall conform to horizontal and vertical alignment. When railing is placed on a curved horizontal alignment with radius of 148'-0" or less, thread the 5/16" Ø cable through 3/8" Ø welded eye rods embedded 4" into the top of the concrete parapet and equally spaced to limit the midordinate distance between the 5/16" Ø cable and the curve to 1" maximum. Horizontal angle shall be bent to conform to horizontal alignment if radius is 148'-0" or less and may be on 10'-0" chords if radius is over 148'-0"
 - Horizontal angle shall be continuous over not less than two intermediate posts, except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
 - When rail is on slope, place fabric parallel to slope.
 - Alternative details may be submitted by Contractor for Engineer's approval.
 - For details and reinforcement not shown see Standard Plan B11-55.
 - See Project Plans for limits of Chain Link Railing Type 7 (Mod).
 - Provide thimbles at all cable loops.
 - Expansion joint same dimension as expansion joint in deck or wall. Increase slotted hole length and splice bar length correspondingly.

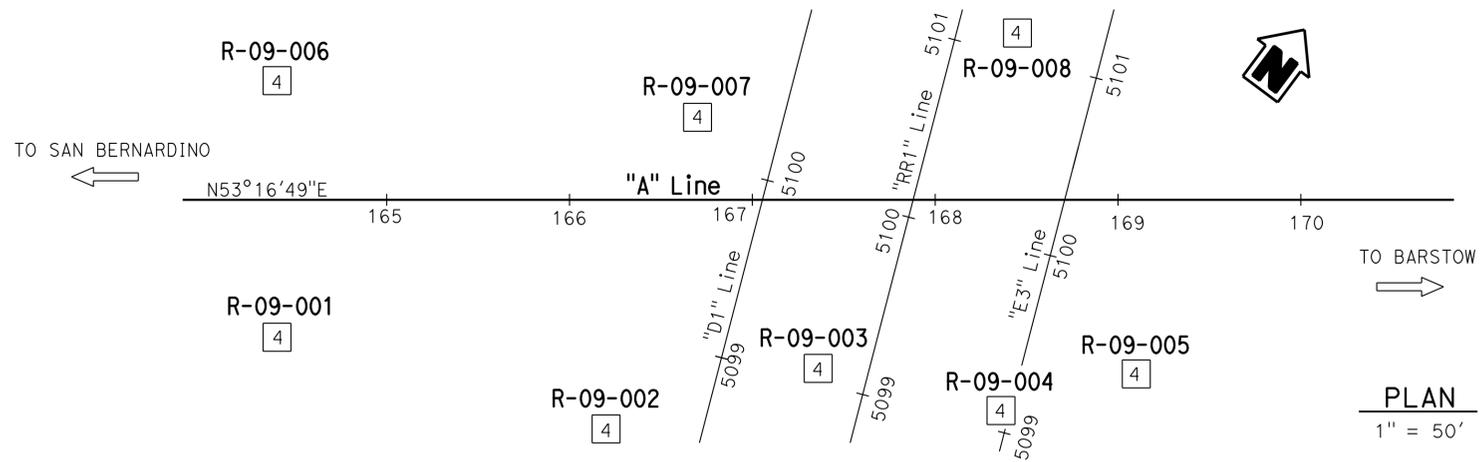
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10		BRIDGE NO. 54-0484G		VICTORVILLE SEPARATION & OVERHEAD	
DESIGN	BY R. Stiltz	CHECKED	A. McPhee			POST MILE 43.5		CHAIN LINK RAILING TYPE 7(MOD)		SHEET OF 21 26	
DETAILS	BY G. Hallstrom	CHECKED	A. McPhee								
QUANTITIES	BY A. McPhee	CHECKED	R. Kirkland								
REVISION DATES											
DISREGARD PRINTS BEARING EARLIER REVISION DATES											

FILE => 540484_gchnlk21.dgn

BENCH MARK

E 103
 Fnd 1" I.P. w/Plastic Plug
 130.03 Rt "A" Line, C Rte 15
 Sta 168+15.36
 N 2,021,558.72
 E 6,772,441.63
 Elev 2699.26

SUHV 532
 Fnd 1" I.P. w/Plastic Plug
 147.83 Lt "A" Line, C Rte 15
 Sta 168+86.49
 N 2,021,823.97
 E 6,772,332.51
 Elev 2698.80
 NAVD 88



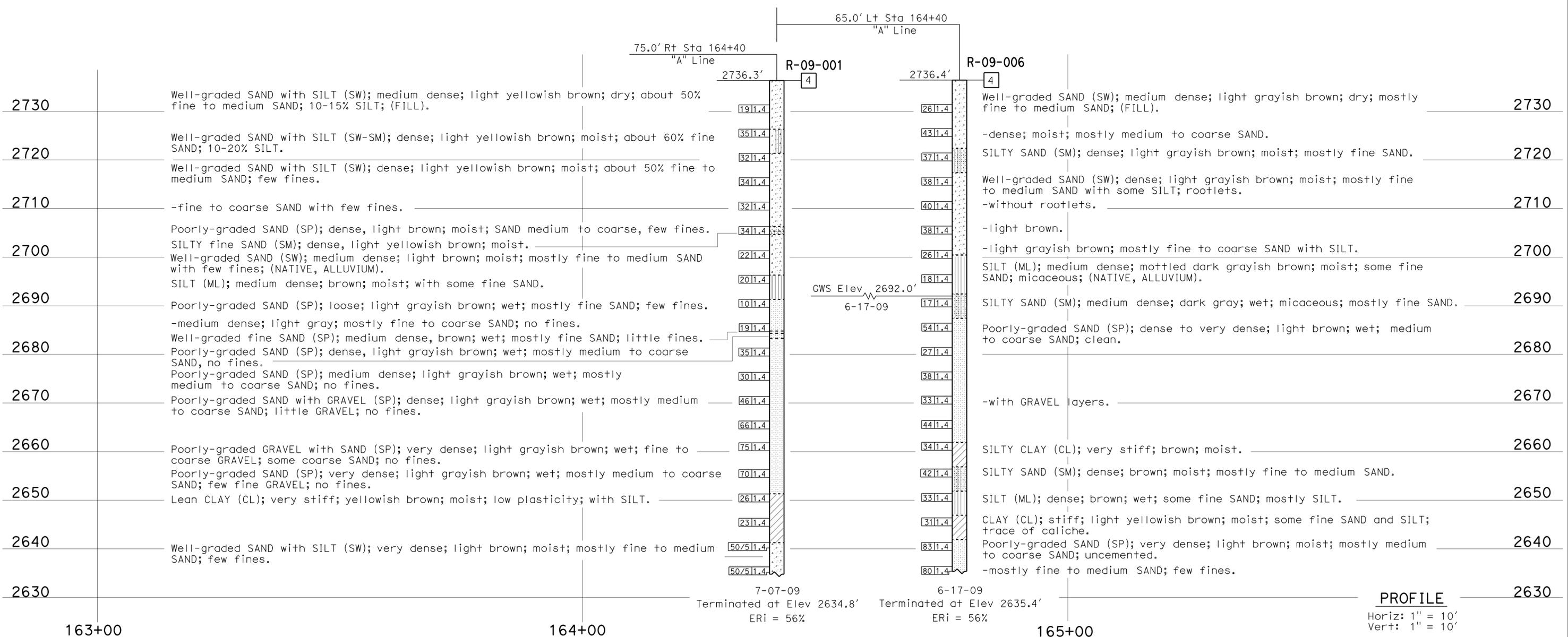
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	761	824

8-14-13
 CERTIFIED ENGINEERING GEOLOGIST
 K. Douglas Cook
 No. 1391
 Exp. 12-31-13
 CERTIFIED ENGINEERING GEOLOGIST
 STATE OF CALIFORNIA

6-23-14
 PLANS APPROVAL DATE

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

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		BRIDGE NO.		VICTORVILLE SEPARATION & OVERHEAD	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen 1/10, I. G-Remmen		FIELD INVESTIGATION BY:		DEPARTMENT OF TRANSPORTATION		54-0484		LOG OF TEST BORINGS 1 OF 5	
NAME: A. Perez-Cobo		CHECKED BY: M. Wilson		D. Cook		DESIGN BRANCH 10		POST MILE			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 08140000861		44.5		CONTRACT NO.: 08-3555V1	
				DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET		OF	
						01-28-13 07-29-13		22		26	

FILE => 540484_gz1tb22.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	762	824

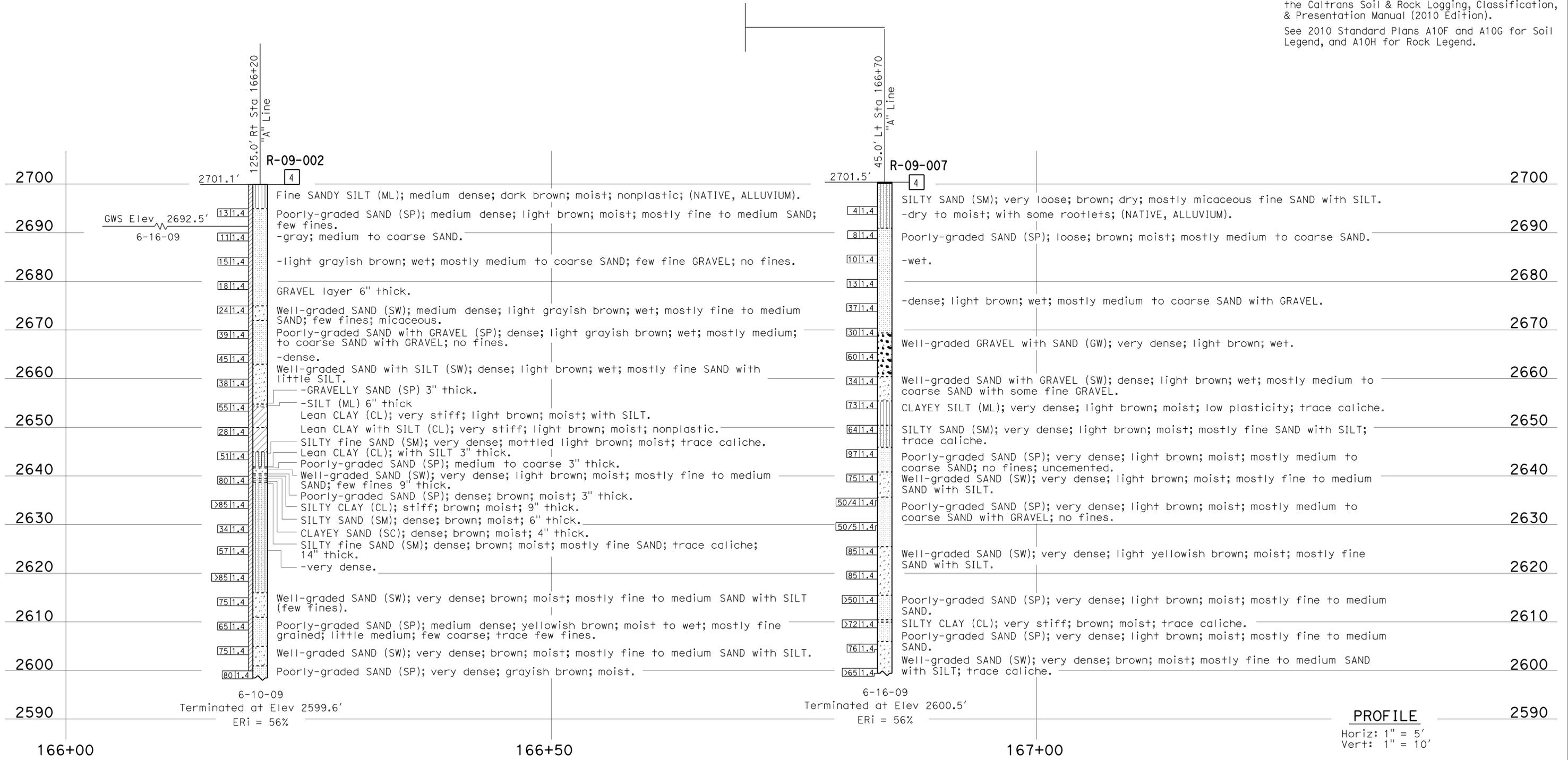
K. Douglas Cook 8-14-13
 CERTIFIED ENGINEERING GEOLOGIST

6-23-14
 PLANS APPROVAL DATE

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

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		BRIDGE NO.		VICTORVILLE SEPARATION & OVERHEAD	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen 1/10, I. G-Remmen		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		54-0484		LOG OF TEST BORINGS 2 OF 5	
NAME: A. Perez-Cobo		CHECKED BY: M. Wilson		FIELD INVESTIGATION BY: D. Cook		DESIGN BRANCH 10		POST MILE			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 08140000861		44.5		CONTRACT NO.: 08-3555V1	
				DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET		OF	
						01-28-13 07-29-13		23		26	

FILE => 540484_gz1tb23.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	763	824

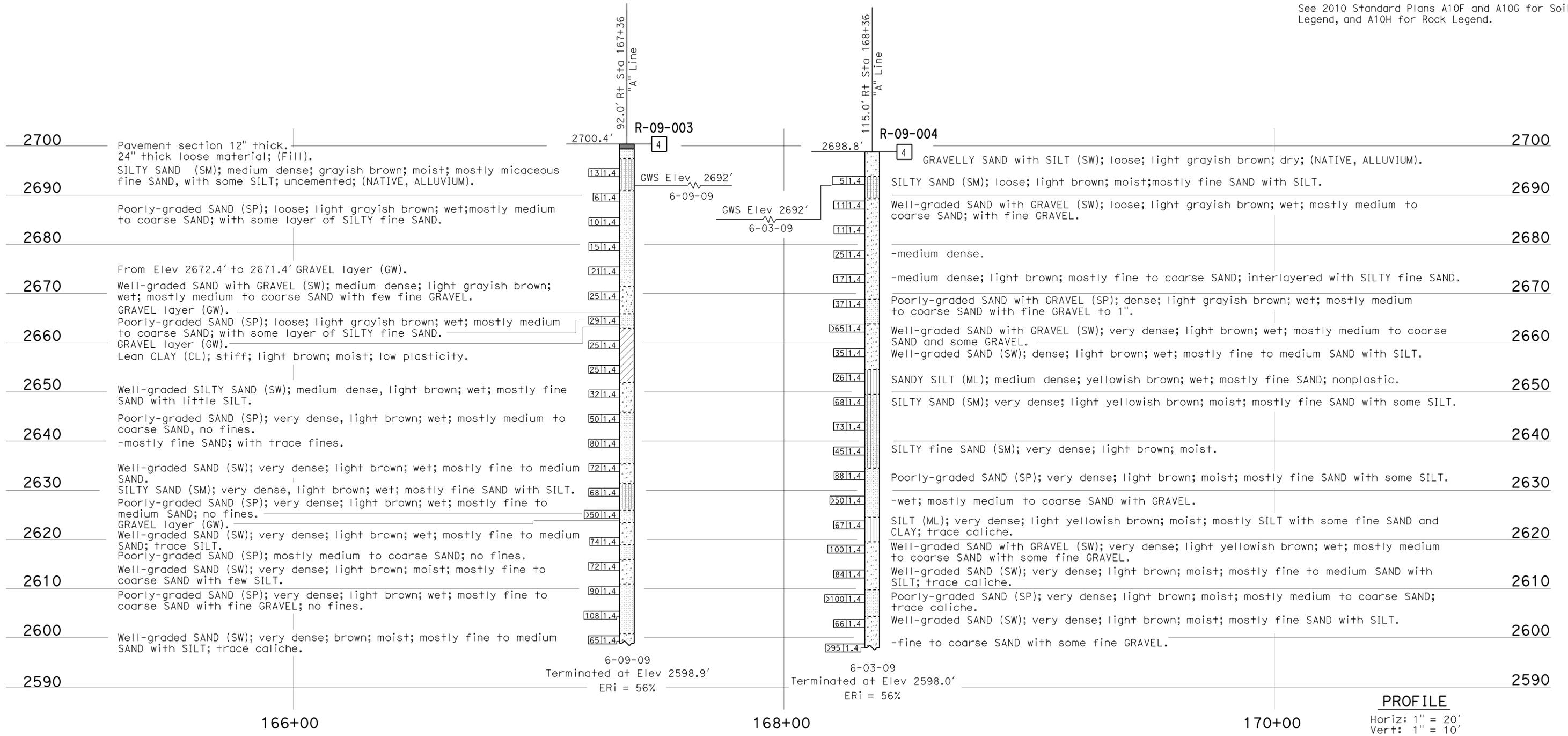
K. Douglas Cook 8-14-13
 CERTIFIED ENGINEERING GEOLOGIST

6-23-14
 PLANS APPROVAL DATE

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

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		BRIDGE NO.		VICTORVILLE SEPARATION & OVERHEAD	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen 1/10, I. G-Remmen		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		54-0484		LOG OF TEST BORINGS 3 OF 5	
NAME: A. Perez-Cobo		CHECKED BY: M. Wilson		FIELD INVESTIGATION BY: D. Cook		DESIGN BRANCH 10		POST MILE			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 08140000861		44.5		CONTRACT NO.: 08-3555V1	
				DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET		OF	
						01-25-13 07-29-13		24		26	

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:41

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	764	824

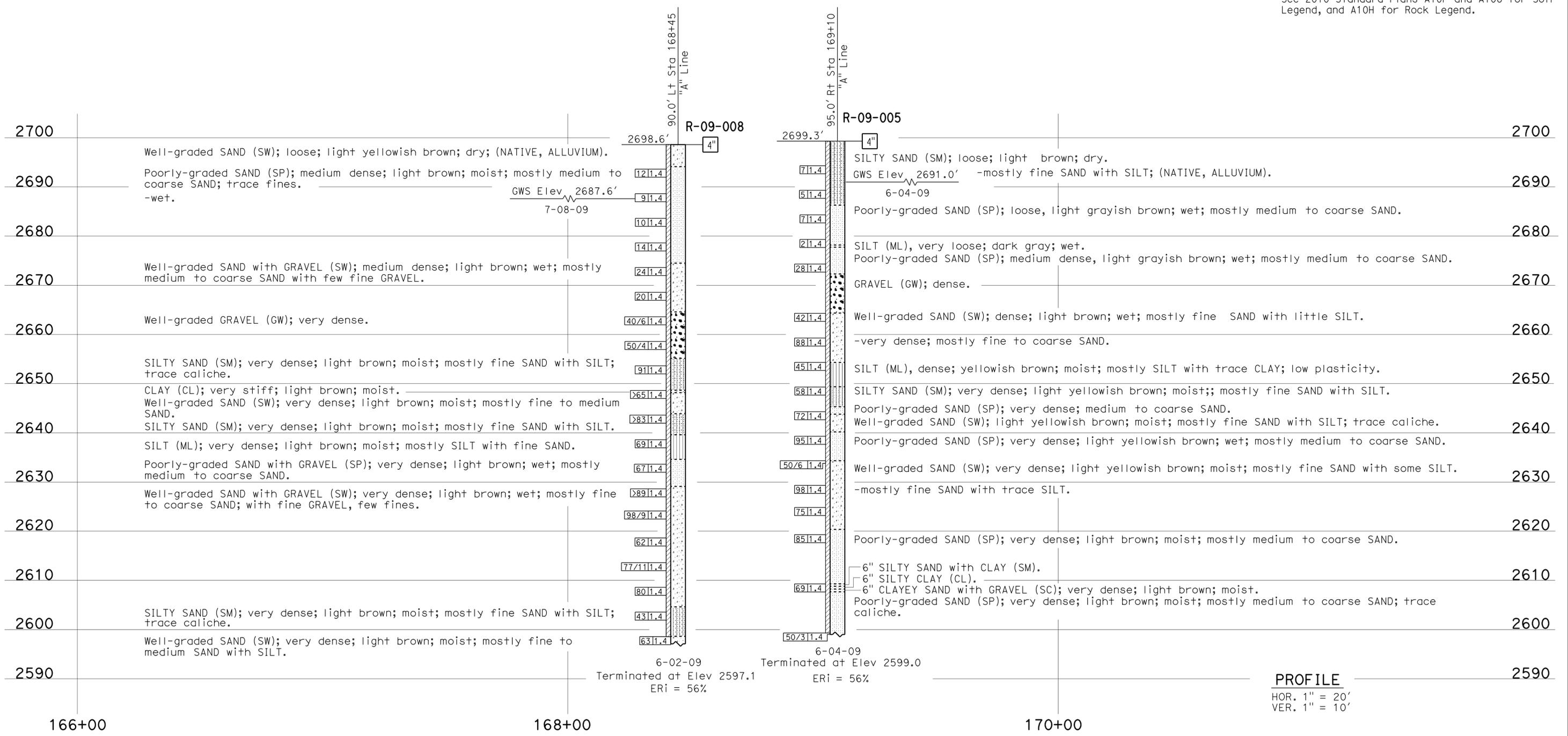
K. Douglas Cook 8-14-13
 CERTIFIED ENGINEERING GEOLOGIST

6-23-14
 PLANS APPROVAL DATE

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

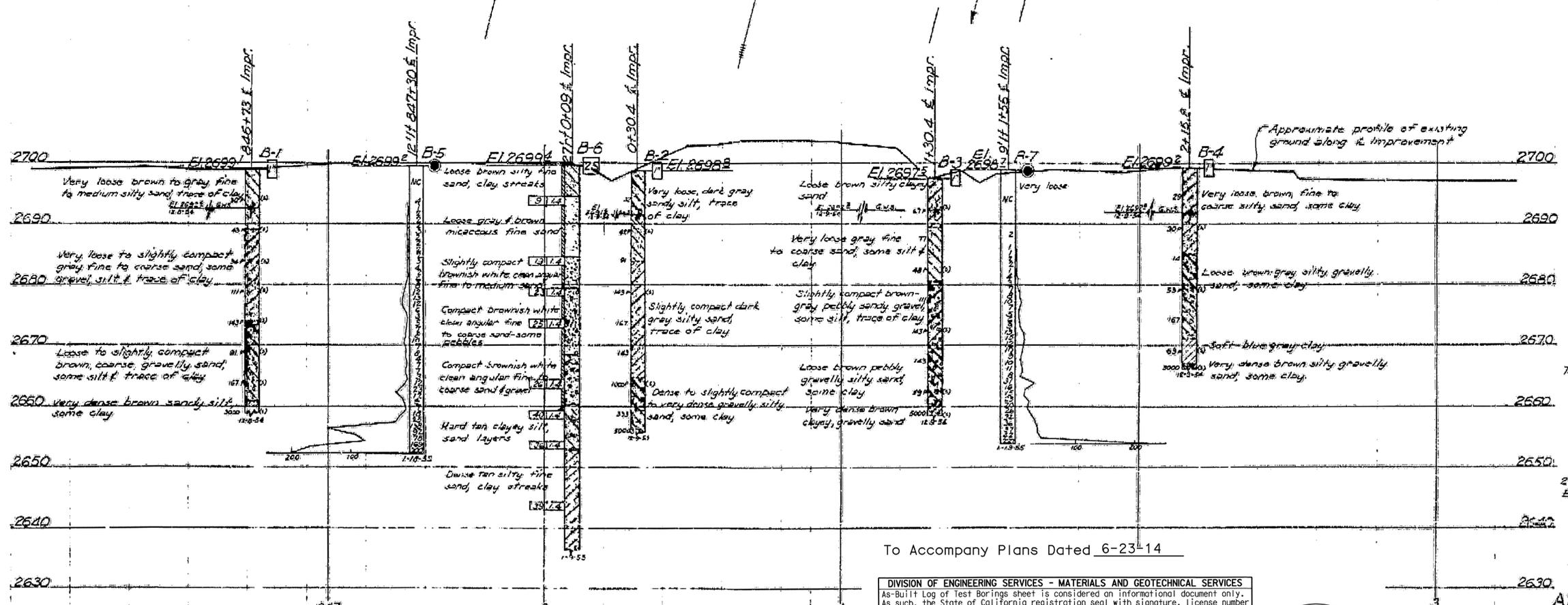
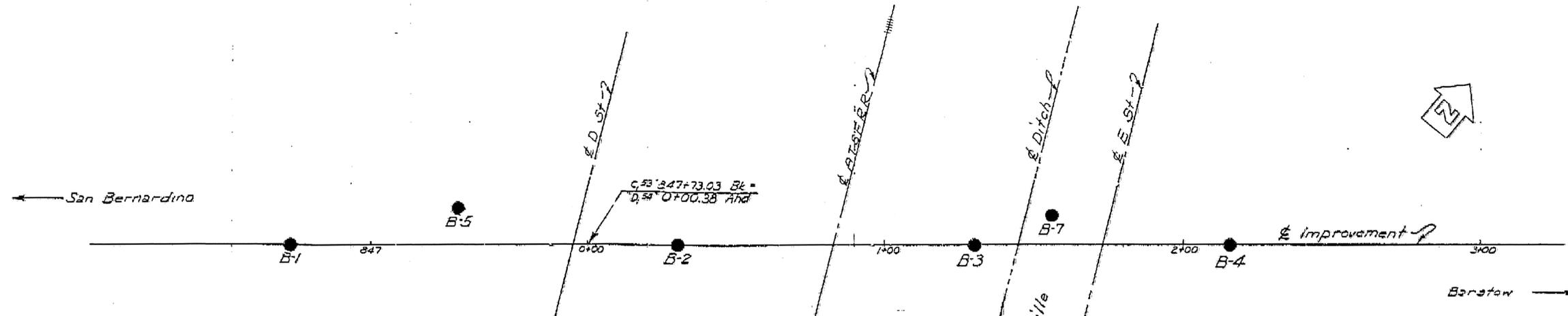
FOR PLAN VIEW, SEE
 "LOG OF TEST BORINGS 1 OF 5"

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.



PROFILE
 HOR. 1" = 20'
 VER. 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		VICTORVILLE SEPARATION & OVERHEAD	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen 1/10, I. G-Remmen		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		54-0484		LOG OF TEST BORINGS 4 OF 5	
NAME: A. Perez-Cobo		CHECKED BY: M. Wilson		FIELD INVESTIGATION BY: D. Cook		DESIGN BRANCH 10		POST MILE			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 08140000861		CONTRACT NO.: 08-3555V1		REVISION DATES	
				0 1 2 3		44.5		DISREGARD PRINTS BEARING EARLIER REVISION DATES		01-25-13 07-29-13	
						FILE => 540484_gz1tb25.dgn				SHEET 25 OF 26	



AS BUILT PLANS
 Contract No. 57-8UG12
 Date Completed
 Document No. 80000770

Test Borings by Bridge Dept.

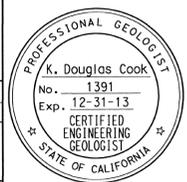
B.M. "C53" B5-A-54
 2"x2" Redwood Hub & Sp. Rd. Nail
 Buried 1' 147' 11" & Impr. Sta 040+89
 Elev 2737.32

 B.M. "D" 5-A-53
 Pin in PCC R/W Monument 1.0' above
 ground 30' rt & Survey 40+00
 Elev 2698.19

AS BUILT *J.P. Nelson*
 1/7/58 BR REP

To Accompany Plans Dated 6-23-14

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
08	Sbd	15	42.5/46.0	765	824
<i>K. Douglas Cook</i> CERTIFIED ENGINEERING GEOLOGIST DATE 8-14-13					
VICTORVILLE SEPARATION & OVERHEAD					
LOG OF TEST BORINGS 5 OF 5					
UNIT:	3643	CONTRACT No.:	08-3555V1	BRIDGE No.:	54-0484G
PROJ. No. & PHASE:	08000006211				
AS-BUILT VERT DATUM:	NGVD 29	CONVERSION:	NGVD 29 +2.729 Ft	Sheet	of
				26	26
NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA					



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

VICTORVILLE OVERHEAD

LOG OF TEST BORINGS

SCALE: Horiz. 1"=20'
 Vert. 1"=10'
 BRIDGE 54-484 FILE DRAWING C-4269-13

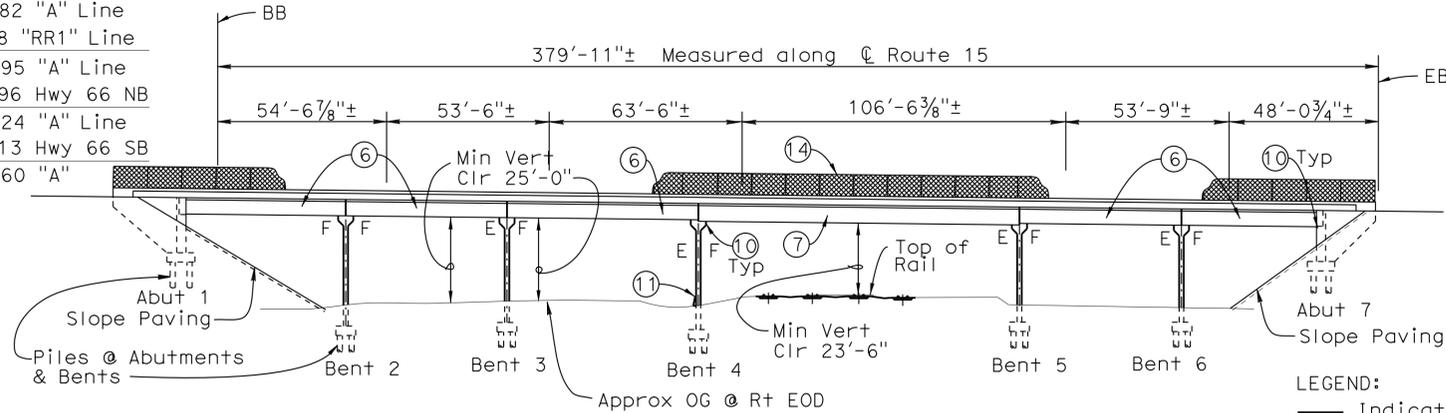
BRIDGE DEPARTMENT

FIELD STUDY
 DRAWN
 CHECKED
 APPROVED
 J.O. DOTT
 H.C. McNEELY
 G.H. McNEELY
 G.H. McNEELY

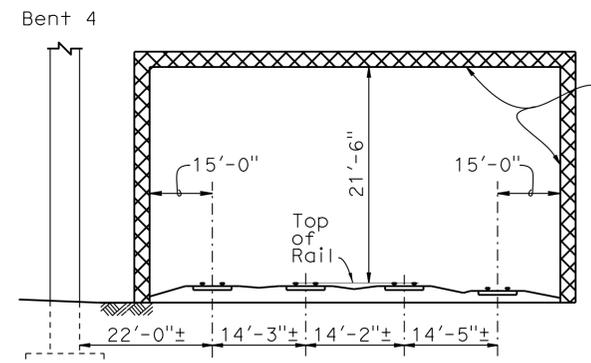
35

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS		LEGEND OF EARTH MATERIALS		LEGEND OF			
<p>DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.</p>		<ul style="list-style-type: none"> GRAVEL SAND SILT CLAY SANDY CLAY OR CLAYEY SAND SANDY SILT OR SILTY SAND SILT SILTY CLAY OR CLAYEY SILT PEAT AND/OR ORGANIC MATTER FILL MATERIAL IGNEOUS ROCK SEDIMENTARY ROCK METAMORPHIC ROCK 		<ul style="list-style-type: none"> PLAN OF PIVY BORING PENETROMETER 2 1/2" CONE PENETROMETER SAMPLER BORING (DRY) ROTARY BORING (WEY) AUGER BORING (DRY) JET BORING CORE BORING TEST PIT 		<p>1" SOIL TUBE</p>	

- (a) "D4" Line Sta 165+38.09 End =47.33 Lt "A" Line Sta 165+38.09
- (b) Sta 5100+31.41 "E3" Line =Sta 168+70.82 "A" Line
- (c) Sta 5100+9.78 "RR1" Line =Sta 167+87.95 "A" Line
- (d) Sta 5099+86.96 Hwy 66 NB =Sta 166+97.24 "A" Line
- (e) Sta 5099+76.13 Hwy 66 SB =Sta 166+47.60 "A" Line



ELEVATION
1"=30'-0"



MINIMUM TEMPORARY CONSTRUCTION CLEARANCES
(NORMAL TO RAILROAD)
NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	766	824

11-07-13
REGISTERED CIVIL ENGINEER DATE

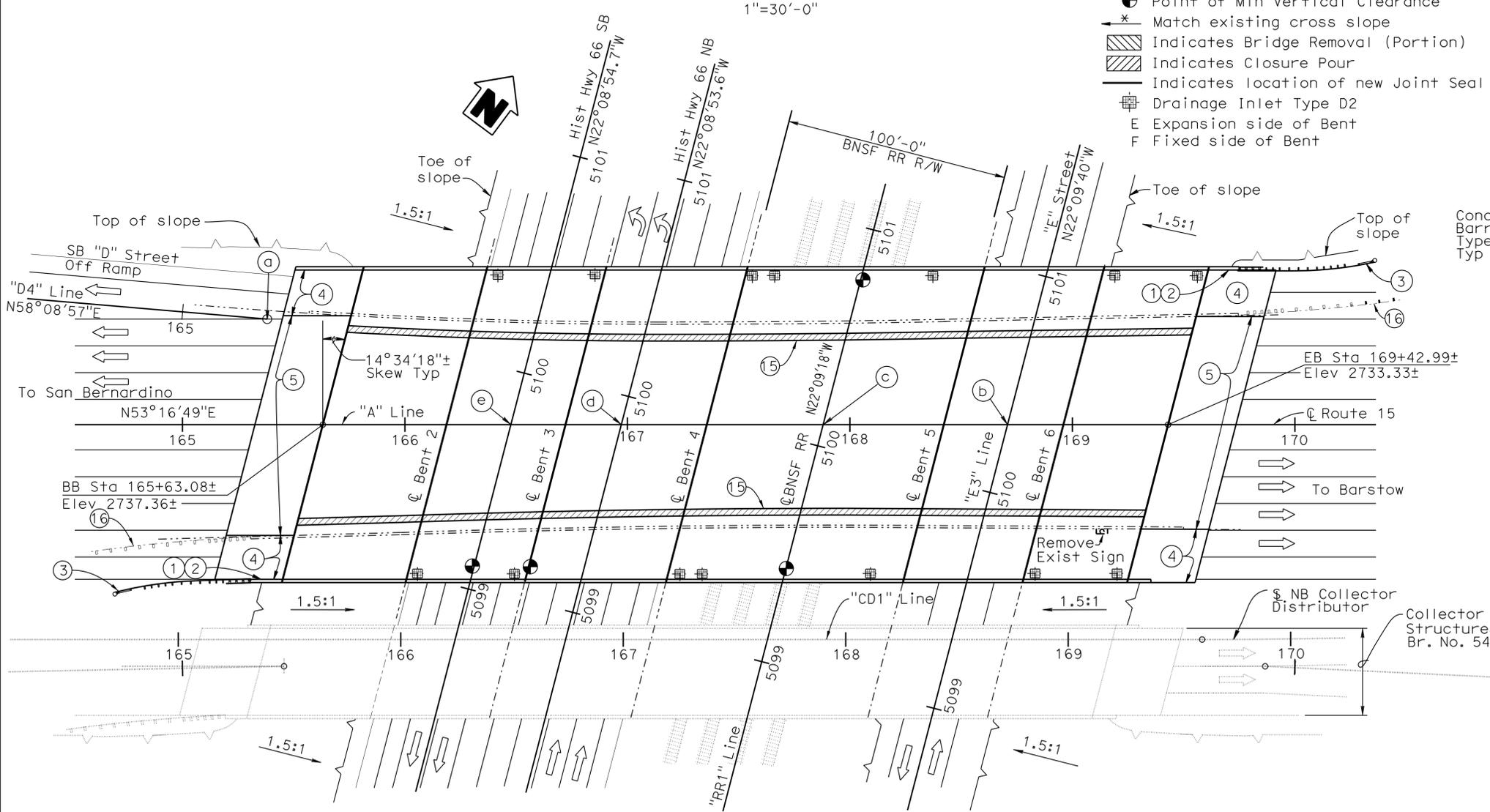
6-23-14
PLANS APPROVAL DATE

RYAN STILTZ
No. C65738
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA

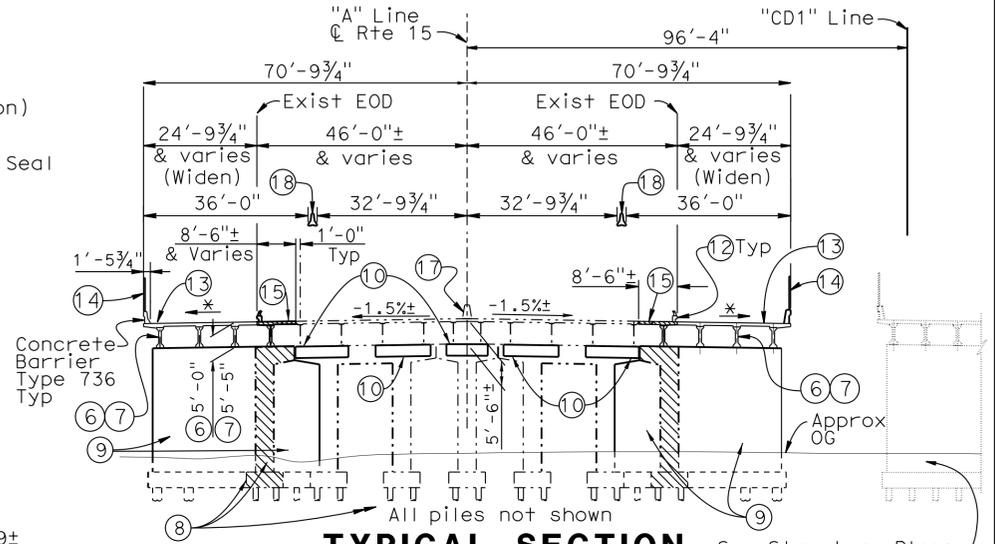
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

No construction activities or other obstructions may be placed within these limits, without getting RR approval

- LEGEND:**
- Indicates new construction
 - - - Indicates existing structure
 - Point of Min Vertical Clearance
 - * Match existing cross slope
 - ▨ Indicates Bridge Removal (Portion)
 - ▩ Indicates Closure Pour
 - Indicates location of new Joint Seal
 - Drainage Inlet Type D2
 - E Expansion side of Bent
 - F Fixed side of Bent



PLAN
1"=30'-0"



TYPICAL SECTION
1"=20'-0"

- NOTES:**
- 1 Paint "BR. NO. 54-0484"
 - 2 Paint "VICTORVILLE SEPARATION & OVERHEAD"
 - 3 MGS, see "Roadway Plans"
 - 4 Limits of Structure Approach Type N(30S)
 - 5 Limits of Structure Approach Type R(30S)
 - 6 Precast Prestressed Conc "I" Girder, Spans 1,2,3,5,6
 - 7 Precast Prestressed Conc Bulb-Tee Girder, Span 4
 - 8 Remove Footing, Column, Bent Cap, Girder and portion of Deck.
 - 9 Pier wall with pile footing
 - 10 Install Catcher Blocks under girders at each Bent and Abutment.
 - 11 Type 60 Barrier, see "ROADWAY PLANS".
 - 12 Remove Existing Type 9 Barrier Rail.
 - 13 Place 3/4"± Polyester Concrete Overlay on Bridge Deck to match existing.
 - 14 Chain Link Railing Type 7 (Mod)
 - 15 3'-0" Closure Pour
 - 16 Remove existing MBGR, see "Roadway Plans"
 - 17 Remove exist conc barrier, Type 60A. Refinish bridge deck. Place Type 60A (mod) barrier. For construction staging, see "Roadway Plans".
 - 18 Temporary Railing Type K, see "Roadway Plans".

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

For "GENERAL NOTES", "INDEX TO PLANS", "STANDARD PLANS", "QUANTITIES", and "PILE DATA TABLE", see "INDEX TO PLANS" Sheet.

DANIEL T. ADAMS
DESIGN ENGINEER

DESIGN	BY R. Stiltz	CHECKED J. Szabo
DETAILS	BY G. Hallstrom	CHECKED J. Szabo
QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen

LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
LAYOUT	BY R. Stiltz
SPECIFICATIONS	BY K. Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

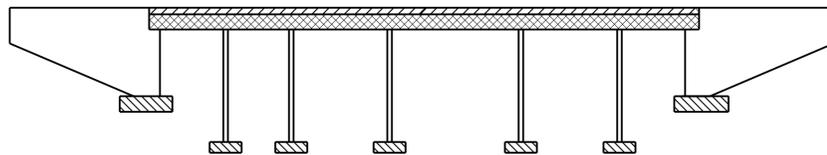
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	54-0484
POST MILE	43.5

VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
GENERAL PLAN

INDEX TO PLANS

Sheet No.	Title
1.	GENERAL PLAN
2.	INDEX TO PLANS
3.	FOUNDATION PLAN
4.	ABUTMENT 1 LEFT LAYOUT
5.	ABUTMENT 1 RIGHT LAYOUT
6.	ABUTMENT 7 LEFT LAYOUT
7.	ABUTMENT 7 RIGHT LAYOUT
8.	ABUTMENT DETAILS NO. 1
9.	ABUTMENT DETAILS NO. 2
10.	BENT LEFT LAYOUT
11.	BENT RIGHT LAYOUT
12.	BENT DETAILS NO. 1
13.	BENT DETAILS NO. 2
14.	TYPICAL SECTION "I" GIRDERS
15.	TYPICAL SECTION "BULB-TEE" GIRDER
16.	LEFT WIDENING GIRDER LAYOUT NO. 1
17.	LEFT WIDENING GIRDER LAYOUT NO. 2
18.	RIGHT WIDENING GIRDER LAYOUT NO. 1
19.	RIGHT WIDENING GIRDER LAYOUT NO. 2
20.	PRECAST PRESTRESSED "I" GIRDER
21.	PC/PS BULB-TEE GIRDER (DEBONDED STRANDS)
22.	PC/PS BULB-TEE GIRDER (MISCELLANEOUS DETAILS)
23.	STRUCTURE APPROACH TYPE R(30S)
24.	STRUCTURE APPROACH TYPE N(30S)
25.	STRUCTURE APPROACH DRAINAGE DETAILS
26.	CABLE RESTRAINER TYPE 5
27.	RETROFIT CABLE RESTRAINER DETAILS NO. 1
28.	RETROFIT CABLE RESTRAINER DETAILS NO. 2
29.	MISCELLANEOUS DETAILS NO. 1
30.	MISCELLANEOUS DETAILS NO. 2
31.	BENT RETROFIT DETAILS NO. 1
32.	BENT RETROFIT DETAILS NO. 2
33.	STRUCTURAL DRAINAGE LAYOUT
34.	BENT ARCHITECTURAL DETAILS
35.	SLOPE PAVING (COBBLESTONE TEXTURE)
36.	CHAIN LINK RAILING TYPE 7 (MOD)
37.	LOG OF TEST BORINGS 1 OF 5
38.	LOG OF TEST BORINGS 2 OF 5
39.	LOG OF TEST BORINGS 3 OF 5
40.	LOG OF TEST BORINGS 4 OF 5
41.	LOG OF TEST BORINGS 5 OF 5



- Structural Concrete, Bridge
- Structural Concrete, Bridge Footing
- Structural Concrete, Bridge (4,000 psi at 28 days)
- Precast Girders

CONCRETE STRENGTH AND TYPE LIMITS

No Scale

STANDARD PLANS DATED 2010

RSP 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
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
B2-8	PILE DETAILS CLASS 200
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-6	DECK DRAINS TYPES D-1 AND D-2
B7-10	UTILITY OPENING BOX GIRDER
RSP B11-56	CONCRETE BARRIER TYPE 736

- LEAD COMPLIANCE PLAN
- WORK AREA MONITORING (BRIDGE)
- PUBLIC SAFETY PLAN
- PREPARE CONCRETE BRIDGE DECK SURFACE
- REFINISH BRIDGE DECK
- FURNISH POLYESTER CONCRETE OVERLAY
- PLACE POLYESTER CONCRETE OVERLAY
- CORE CONCRETE (2 1/2")
- BRIDGE REMOVAL (PORTION), LOCATION B
- STRUCTURE EXCAVATION (BRIDGE)
- STRUCTURE EXCAVATION (TYPE D)
- STRUCTURE BACKFILL (BRIDGE)
- TEMPORARY SUPPORT (LOCATION B)
- FURNISH PILING (CLASS 200) (ALTERNATIVE W)
- DRIVE PILE (CLASS 200) (ALTERNATIVE W)
- STRUCTURAL CONCRETE, BRIDGE FOOTING
- STRUCTURAL CONCRETE, BRIDGE
- AGGREGATE BASE (APPROACH SLAB)
- STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)
- STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)
- CONCRETE SURFACE TEXTURE (FLUTED RIB)
- DRILL AND BOND DOWEL
- FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (40'-50')
- FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (50'-60')
- FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (60'-70')
- FURNISH PRECAST PRESTRESSED CONCRETE BULB-TEE GIRDER (100'-110')
- ERECT PRECAST PRESTRESSED CONCRETE GIRDER
- JOINT SEAL (MR 1)
- BAR REINFORCING STEEL (BRIDGE)
- STRUCTURAL STEEL (BRIDGE)
- CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)
- PAINT STRUCTURAL STEEL (EXISTING BRIDGE)
- SPOT BLAST CLEAN AND PAINT UNDERCOAT
- SLOPE PAVING (COBBLESTONE TEXTURE)
- MISCELLANEOUS METAL (RESTRAINER - CABLE TYPE)
- MISCELLANEOUS METAL (BRIDGE)
- BRIDGE DECK DRAINAGE SYSTEM
- CHAIN LINK RAILING (TYPE 7 MODIFIED)
- CONCRETE BARRIER (TYPE 60A MODIFIED)
- CONCRETE BARRIER (TYPE 736)

QUANTITIES

LUMP SUM	23,356
LUMP SUM	1,320
LUMP SUM	1,460
SOFT	23,356
CF	600
SOFT	136
SOFT	1120
SOFT	778
SOFT	7,430
EA	144
CY	568
CY	2,102
CY	22
CY	97
CY	213
SOFT	21,358
LF	3,249
EA	8
EA	24
EA	8
EA	8
EA	48
LF	995
LB	595,561
LB	4,603
LUMP SUM	
LUMP SUM	
SOFT	200
SOFT	4,935
LB	14,382
LB	7,022
LB	9,324
LF	818
LF	440
LF	818

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	767	824

11-07-13
REGISTERED CIVIL ENGINEER DATE

6-23-14
PLANS APPROVAL DATE

RYAN STILTZ
No. C65738
Exp. 9/30/15
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.

PILE DATA TABLE

Left Bridge No. 54-0484



PILE DATA TABLE

Right Bridge No. 54-0484



Location	Pile Type	Nominal Resistance (kips)		Design Tip Elevation (ft)	Specified Tip Elevation (ft)	Nominal Driving Resistance(kips)
		Compression	Tension			
Abut 1	Class 200 Alt "W"	320	0	2674 (a) 2665 (d)	2665	600
Bent 2	Class 200 Alt "W"	320	120	2650 (a) 2649 (b) 2654 (d)	2649	380
Bent 3	Class 200 Alt "W"	320	120	2651 (a) 2650 (b) 2655 (d)	2650	390
Bent 4	Class 200 Alt "W"	370	120	2648 (a) 2648 (b) 2653 (d)	2648	370
Bent 5	Class 200 Alt "W"	370	120	2648 (a) 2646 (b) 2652 (d)	2646	410
Bent 6	Class 200 Alt "W"	320	120	2650 (a) 2648 (b) 2650 (d)	2648	380
Abut 7	Class 200 Alt "W"	320	0	2666 (a) 2655 (d)	2655	550

Location	Pile Type	Nominal Resistance (kips)		Design Tip Elevation (ft)	Specified Tip Elevation (ft)	Nominal Driving Resistance(kips)
		Compression	Tension			
Abut 1	Class 200 Alt "W"	320	0	2673 (a) 2665 (d)	2665	560
Bent 2	Class 200 Alt "W"	320	120	2650 (a) 2648 (b) 2654 (d)	2648	400
Bent 3	Class 200 Alt "W"	320	120	2650 (a) 2649 (b) 2655 (d)	2649	390
Bent 4	Class 200 Alt "W"	370	120	2637 (a) 2639 (b) 2650 (d)	2637	450
Bent 5	Class 200 Alt "W"	370	120	2645 (a) 2649 (b) 2652 (d)	2645	370
Bent 6	Class 200 Alt "W"	320	120	2649 (a) 2646 (b) 2649 (d)	2646	360
Abut 7	Class 200 Alt "W"	320	0	2675 (a) 2665 (d)	2665	560

NOTE:
Design tip elevations are controlled by: (a) Compression, (b) Tension, (d) Lateral Load.

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

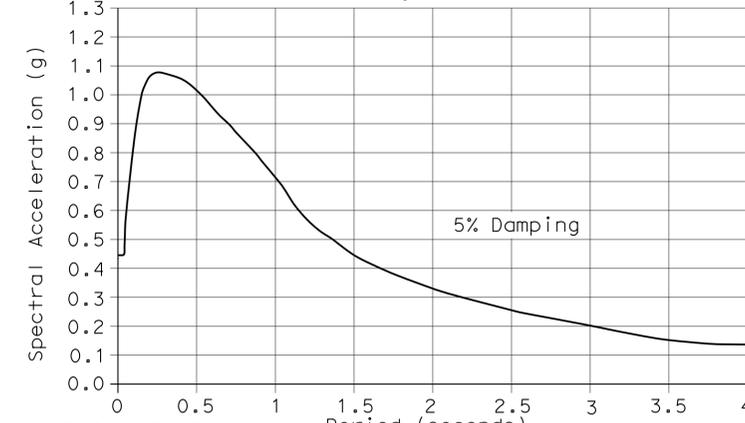
DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4th Edition with California Amendments, Preface dated Nov. 2011.

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

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

LIVE LOADING:
HL93 and permit design load.

SEISMIC LOADING:
Soil profile: VS30 = 656 ft/s
Moment Magnitude: Mmax = 6.5
Peak Ground Acceleration 0.49 g



REINFORCED CONCRETE:
fy = 60 ksi
f'c = 4.0 ksi, unless otherwise noted.
n = 8

PRESTRESSED CONCRETE:
See "Prestressing Notes" on "PC/PS BULB-TEE GIRDER (DEBONDED STRANDS)" sheet.

STRUCTURAL STEEL
(New construction):
fy = 50 ksi: (ASTM 709) Grade 50, unless otherwise noted
Electrodes shall be E70XX, unless otherwise noted
(Assumed for evaluation of Existing structure):ASTM A7 fy=39 ksi

DESIGN	BY Ryan Stiltz	CHECKED J. Szabo
DETAILS	BY G. Hallstrom	CHECKED J. Szabo
QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
POST MILE	43.5	
INDEX TO PLANS		

CURVE DATA				
No.	R	Δ	T	L
(A)	3000.00	4°20'29"	113.71	227.32
(B)	1000.00	7°34'04"	66.14	132.08

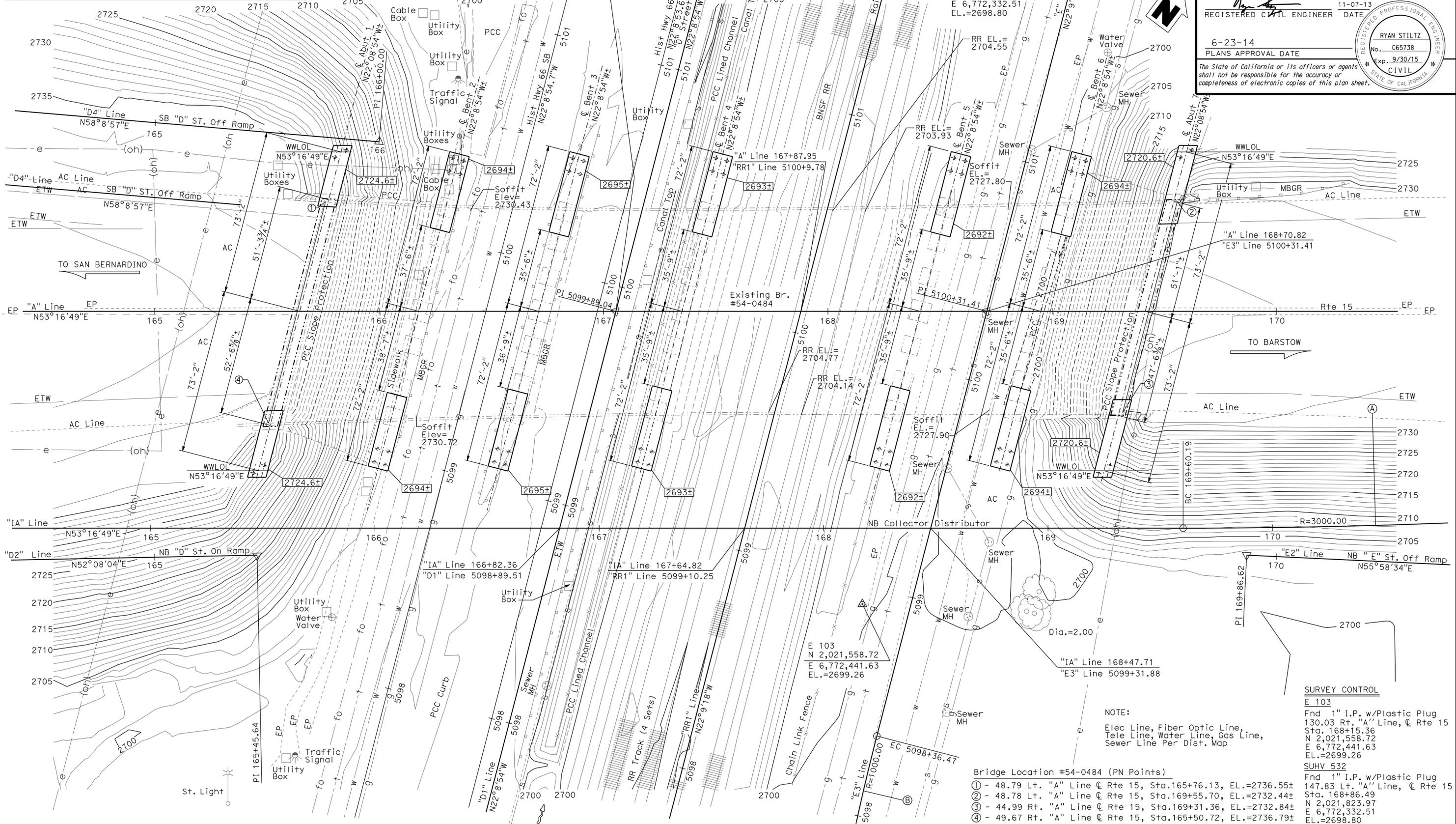
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	768	824

REGISTERED CIVIL ENGINEER DATE 11-07-13

6-23-14 PLANS APPROVAL DATE

RYAN STILTZ
No. C65738
Exp. 9/30/15
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:
Elec Line, Fiber Optic Line,
Tele Line, Water Line, Gas Line,
Sewer Line Per Dist. Map

- BRIDGE LOCATION #54-0484 (PN POINTS)
- ① - 48.79 Lt. "A" Line @ Rte 15, Sta.165+76.13, EL.=2736.55±
 - ② - 48.78 Lt. "A" Line @ Rte 15, Sta.169+55.70, EL.=2732.44±
 - ③ - 44.99 Rt. "A" Line @ Rte 15, Sta.169+31.36, EL.=2732.84±
 - ④ - 49.67 Rt. "A" Line @ Rte 15, Sta.165+50.72, EL.=2736.79±
- SURVEY CONTROL
E 103
Fnd 1" I.P. w/Plastic Plug
130.03 Rt. "A" Line, @ Rte 15
Sta. 168+15.36
N 2,021,558.72
E 6,772,441.63
EL.=2699.26
SUHV 532
Fnd 1" I.P. w/Plastic Plug
147.83 Lt. "A" Line, @ Rte 15
Sta. 168+86.49
N 2,021,823.97
E 6,772,332.51
EL.=2698.80

PRELIMINARY INVESTIGATION SECTION			
SCALE	VERT. DATUM	NGVD 29	PHOTOGRAMMETRY AS OF: X
1"=20'	HORZ. DATUM	NAD 83	SURVEYED BY Dist./Tom Gillett
ALIGNMENT TIES	Dist. Traverse Sheet		CHECKED BY Sharon Zheng 10/2008
			CHECKED BY T.Zoinkova 10/2008

DESIGN	BY R. Stiltz	CHECKED J. Szabo
DETAILS	BY G. Hallstrom	CHECKED J. Szabo
QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

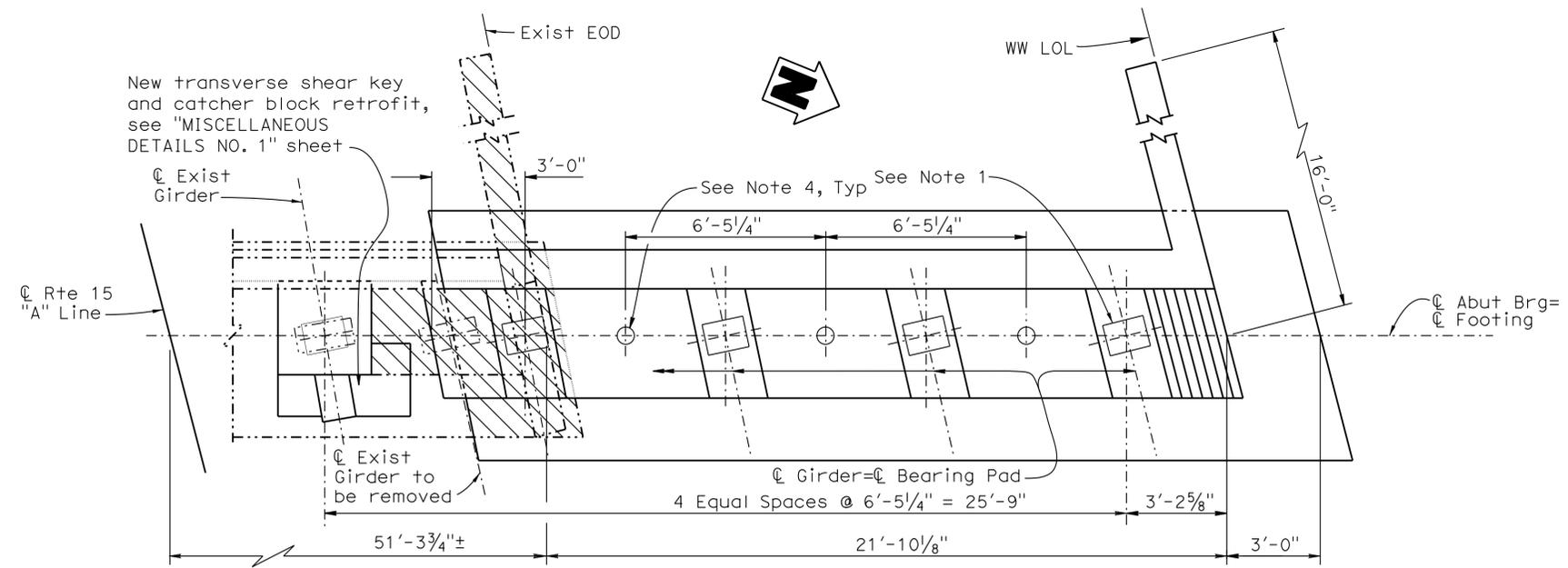
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	54-0484
POST MILE	43.20

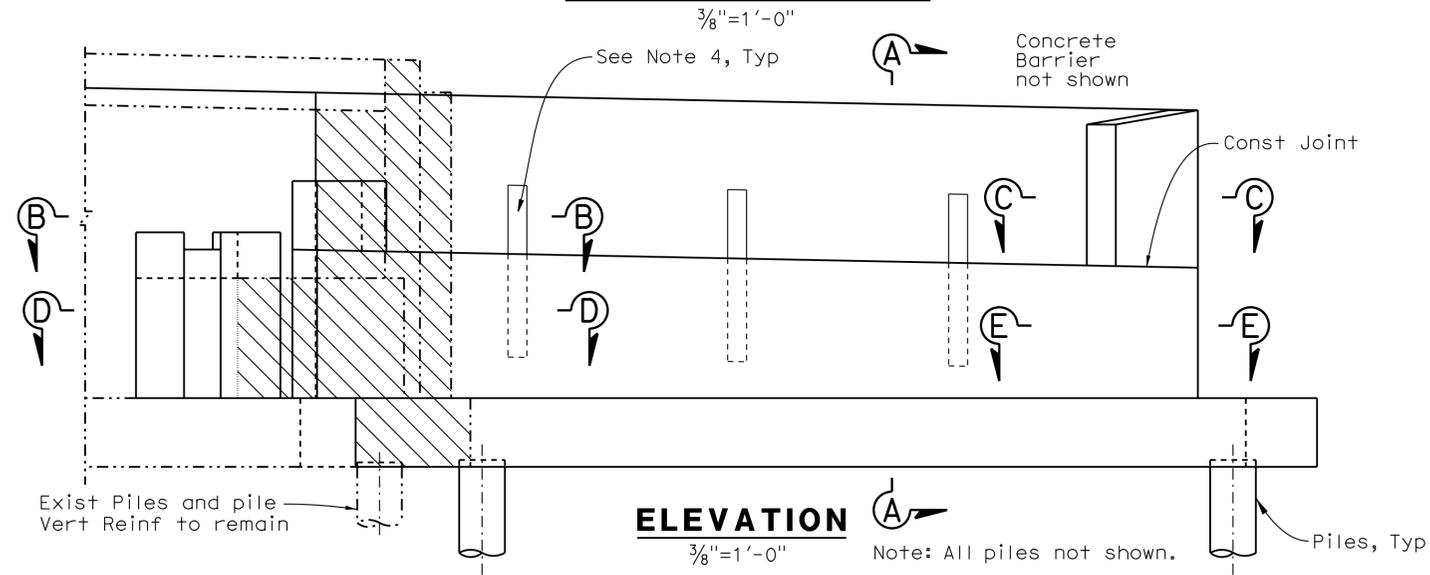
VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
FOUNDATION PLAN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	769	824

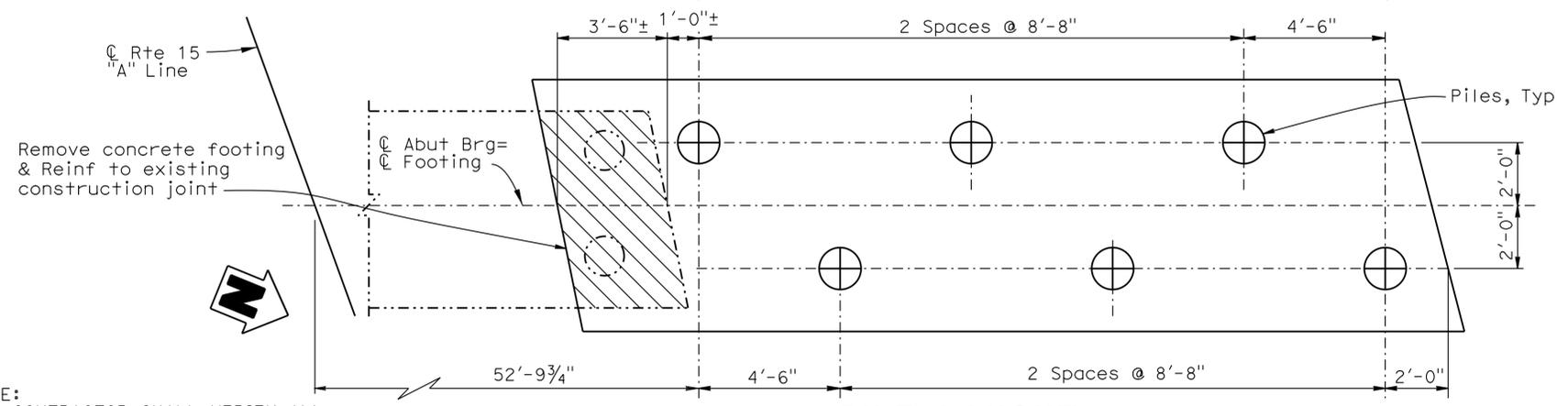
REGISTERED CIVIL ENGINEER DATE 11-07-13
 6-23-14
 PLANS APPROVAL DATE
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



ABUTMENT 1 PLAN



ELEVATION



PILE LAYOUT

- LEGEND:**
- Indicates new construction
 - - - Indicates existing structure
 - ▨ Indicates bridge removal (portion)
 - ⊕ Indicates Class 200 Alt "W" pile

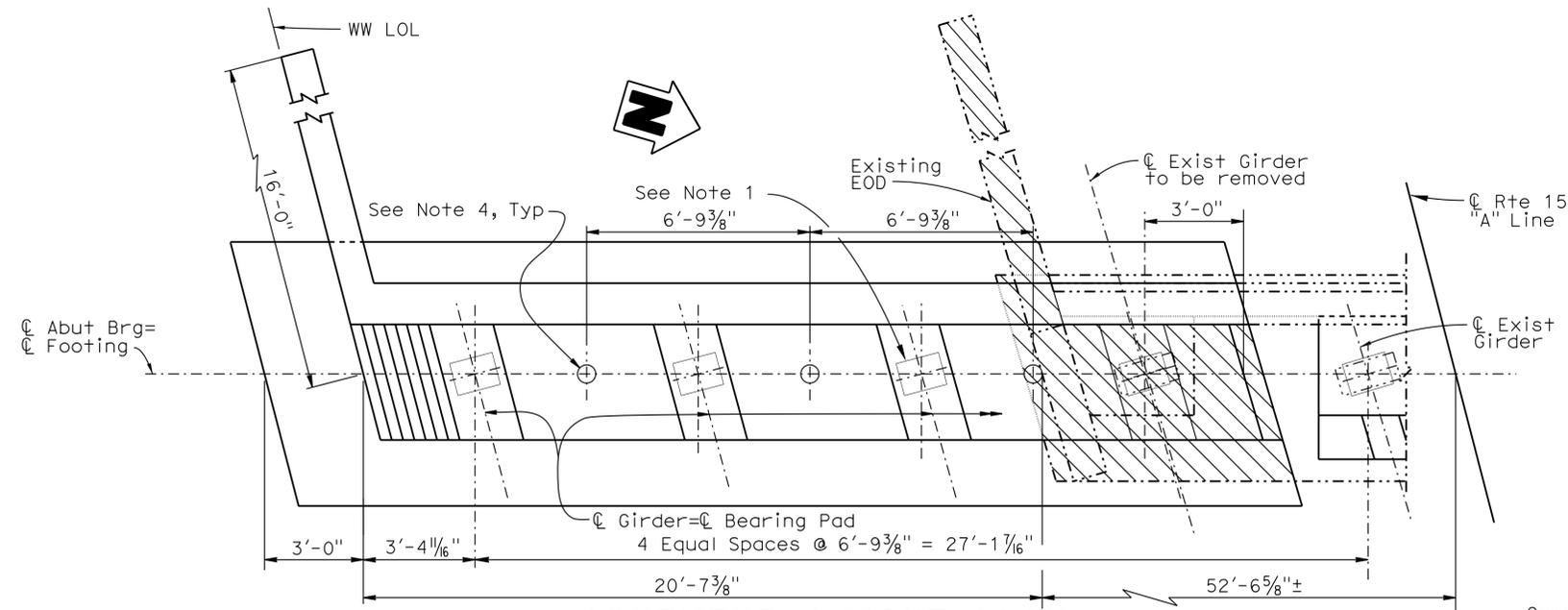
- NOTES:**
- Bearing pads shall be 16" x 12" x 2" (elastomer only) steel reinforced elastomeric bearing pads Tot 4, for details see "ABUTMENT DETAILS NO. 1" sheet.
 - For "SECTION B-B", "SECTION C-C", "SECTION D-D", "SECTION E-E", see "ABUTMENT DETAILS NO. 1" sheet.
 - For "SECTION A-A", see "ABUTMENT 1 RIGHT LAYOUT" sheet.
 - 6" x 5'-0" XX strong pipe filled with concrete. For "PIPE SHEAR KEY DETAIL", see "BENT RIGHT LAYOUT" sheet.
 - For Drill and Bond to Exist footing, see "EXISTING ABUTMENT FOOTING ELEVATION" on "ABUTMENT DETAILS NO. 2" sheet.

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

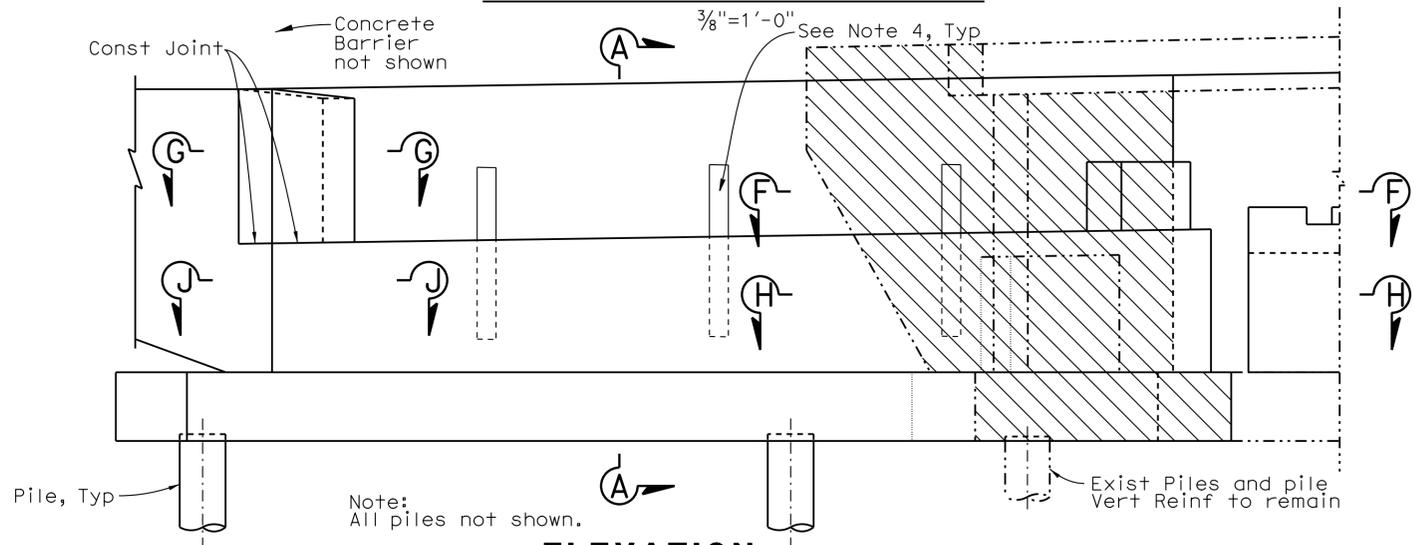
DESIGN	BY	R. Stiltz	CHECKED	J. Szabo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) ABUTMENT 1 LEFT LAYOUT							
	DETAILS	BY	G. Hallstrom	CHECKED			J. Szabo	POST MILE		43.5						
	QUANTITIES	BY	J. Szabo	CHECKED			T. Sanderson/F. Chen	CU 08 EA 3555V1		REVISION DATES	<table border="1"> <tr> <td>11-08-08</td> <td>1-06-09</td> <td>11-04-09</td> <td>1-19-11</td> <td>10-24-12</td> <td>3-01-13</td> <td>5-28-13</td> <td>7-16-13</td> <td>10-24-13</td> </tr> </table>	11-08-08	1-06-09	11-04-09	1-19-11	10-24-12
11-08-08	1-06-09	11-04-09	1-19-11	10-24-12	3-01-13	5-28-13	7-16-13	10-24-13								
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 4 OF 41							

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:57

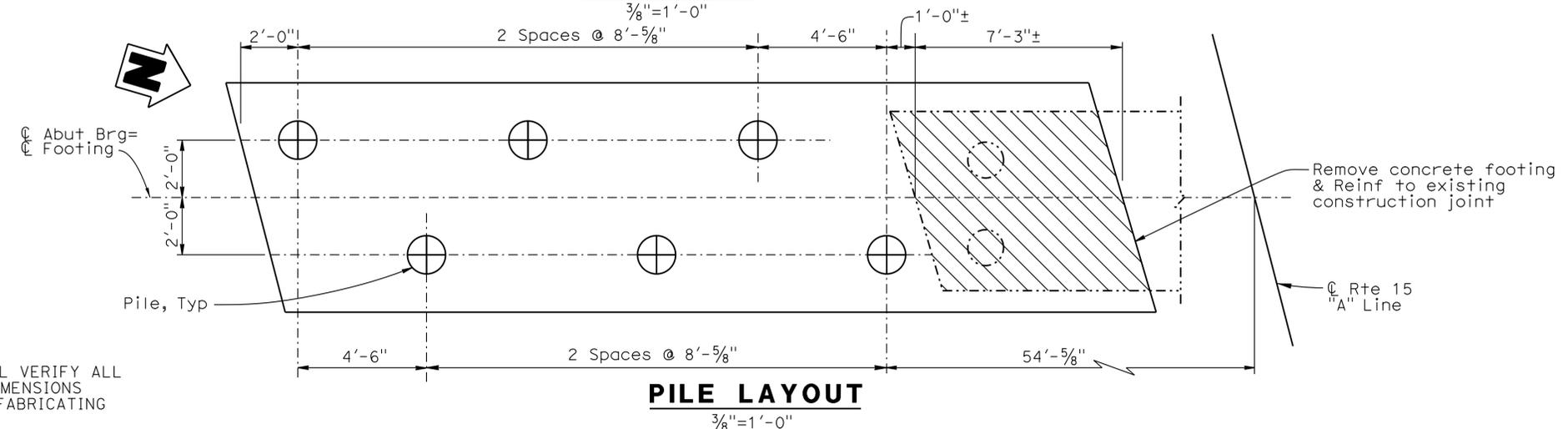
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	770	824
			11-07-13	REGISTERED PROFESSIONAL ENGINEER	
			6-23-14	PLANS APPROVAL DATE	
			RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



ABUTMENT 1 RIGHT PLAN

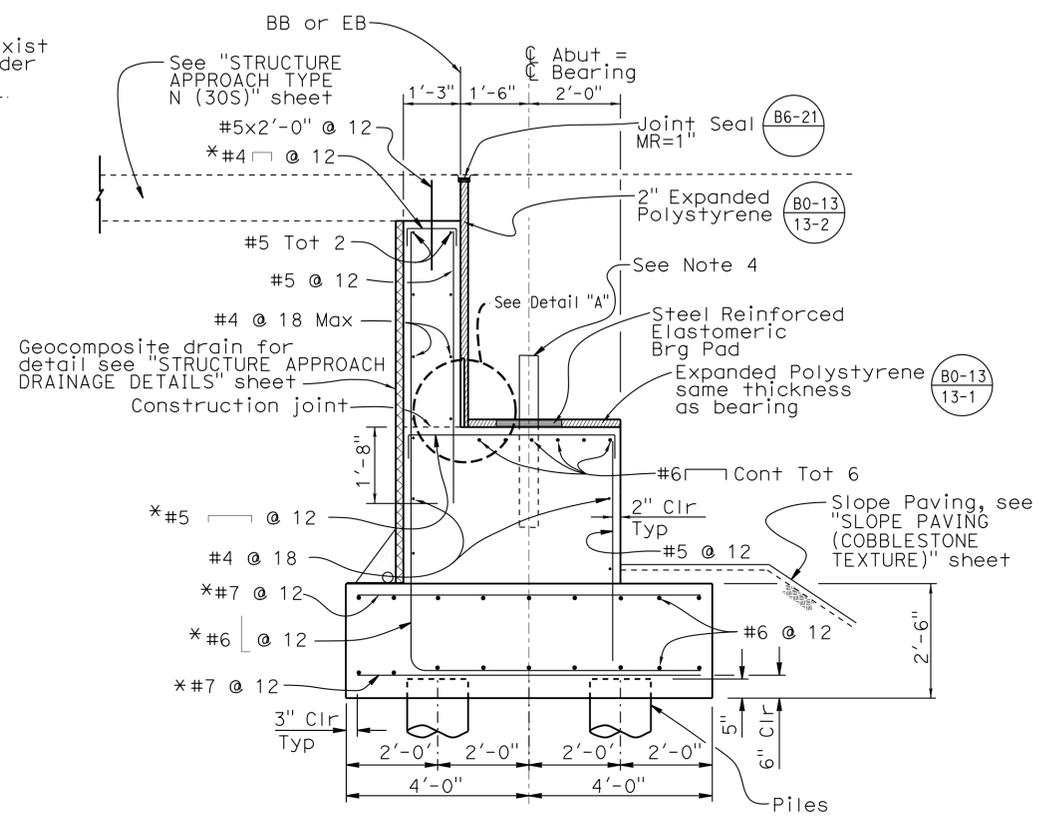


ELEVATION



PILE LAYOUT

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



SECTION A-A

* Reinf spaced along C Abut, placed parallel to EOD

LEGEND:

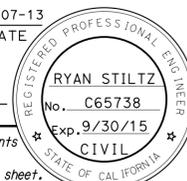
- Indicates new construction
- Indicates existing structure
- ▨ Indicates bridge removal (portion)
- ⊕ Indicates Class 200 Alt "W" Pile

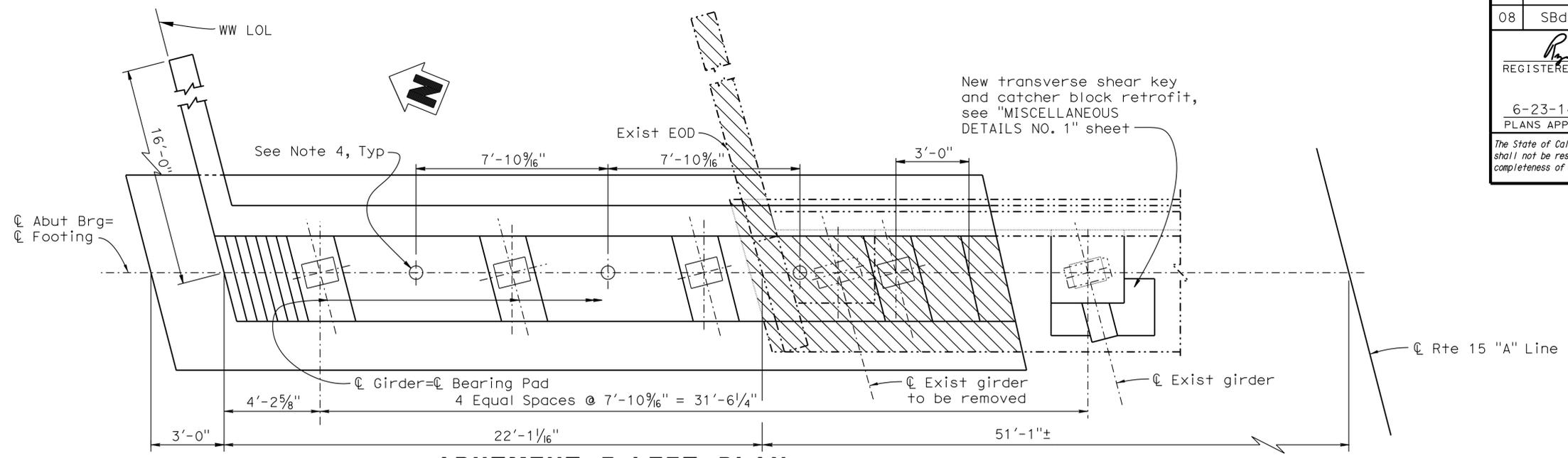
NOTES:

1. Bearing pads shall be 16" x 12" x 2" (elastomer only) steel reinforced elastomeric bearing pads Tot 4, for details see "ABUTMENT DETAILS NO. 1" sheet.
2. For "SECTION F-F", "SECTION G-G", "SECTION H-H", "SECTION J-J", see "ABUTMENT DETAILS NO. 2" sheet.
3. For "DETAIL A", see "ABUTMENT DETAILS NO. 1" sheet.
4. 6" x 5'-0" XX strong pipe filled with concrete. For "PIPE SHEAR KEY DETAIL", see "BENT RIGHT LAYOUT" sheet.
5. For Drill and Bond to Exist footing, see "EXISTING ABUTMENT FOOTING ELEVATION" on "ABUTMENT DETAILS NO. 2" sheet.

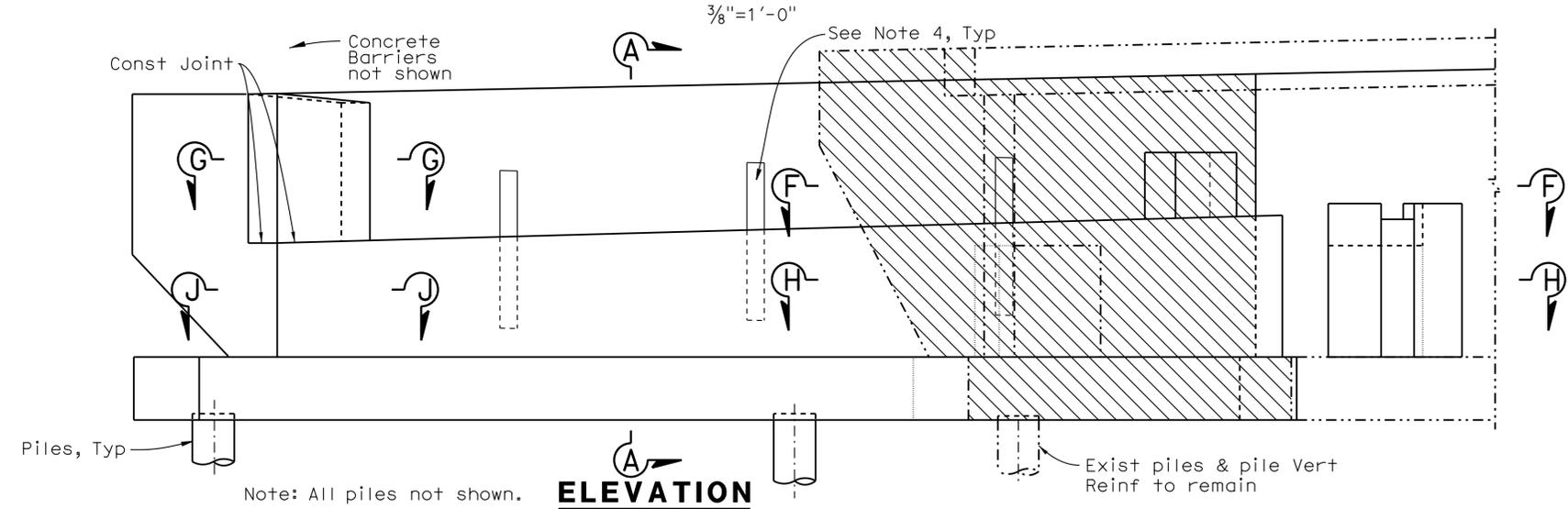
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY R. Stiltz	CHECKED J. Szabo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) ABUTMENT 1 RIGHT LAYOUT
	DETAILS	BY G. Hallstrom	CHECKED J. Szabo			POST MILE	43.5	
	QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen			REVISION DATES	11-08-08 04-24-14 1-28-11 10-26-12 3-26-13 4-08-13 5-28-13 7-18-13 11-04-13	
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 5 OF 41

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	771	824

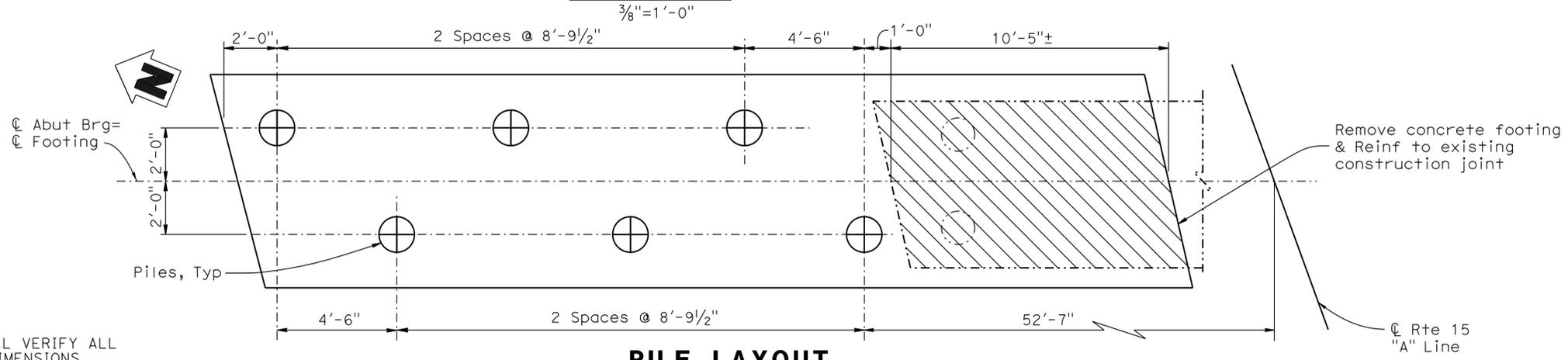

 11-07-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



ABUTMENT 7 LEFT PLAN



ELEVATION



PILE LAYOUT

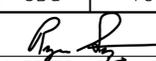
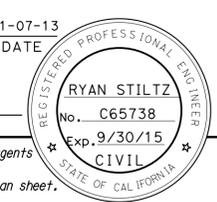
- LEGEND:**
- Indicates new construction
 - Indicates existing structure
 - ▨ Indicates bridge removal (portion)
 - ⊕ Indicates Class 200 A1t "W" Pile

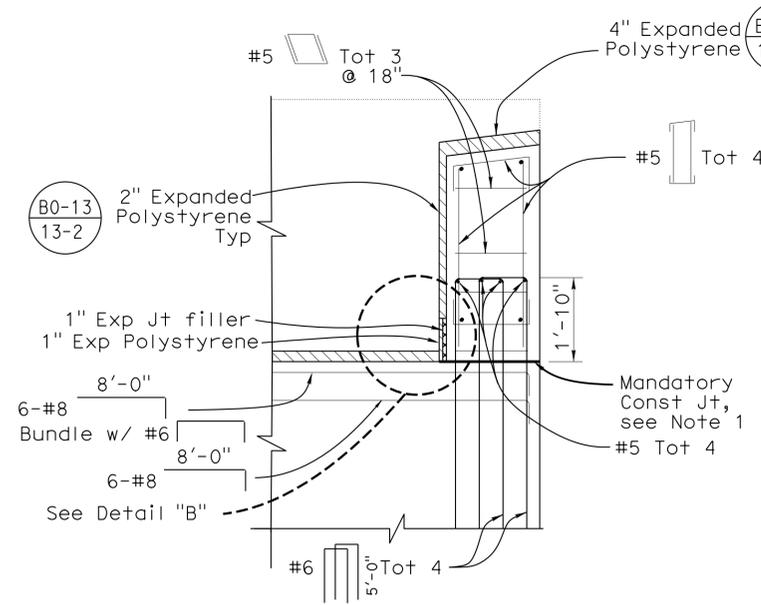
- NOTES:**
1. Bearing pads shall be 16" x 12" x 2" (elastomer only) steel reinforced elastomeric bearing pads Tot 4, for details see "ABUTMENT DETAILS NO. 1" sheet.
 2. For "SECTION F-F", "SECTION G-G", "SECTION H-H", "SECTION J-J", see "ABUTMENT DETAILS NO. 2" sheet.
 3. For "SECTION A-A", see "ABUTMENT 1 RIGHT LAYOUT" sheet.
 4. 6" x 5'-0" XX strong pipe filled with concrete. For "PIPE SHEAR KEY DETAIL", see "BENT RIGHT LAYOUT" sheet.
 5. For Drill and Bond to Exist footing, see "EXISTING ABUTMENT FOOTING ELEVATION" on "ABUTMENT DETAILS NO. 2" sheet.

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

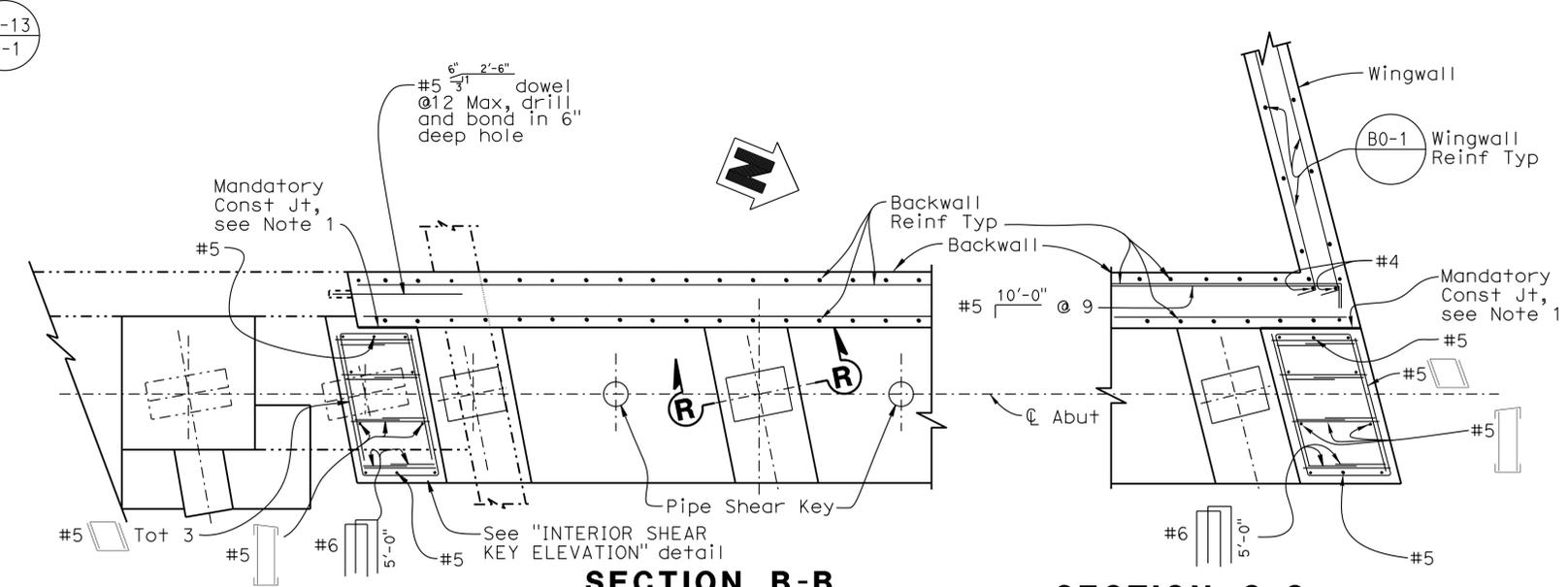
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN BY R. Stiltz	CHECKED J. Szabo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) ABUTMENT 7 LEFT LAYOUT																					
	DETAILS BY G. Hallstrom	CHECKED J. Szabo			POST MILE 43.5																						
	QUANTITIES BY J. Szabo	CHECKED T. Sanderson/F. Chen																									
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th colspan="7">REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>11-06-08</td> <td>1-06-09</td> <td>11-04-09</td> <td>1-28-11</td> <td>10-26-12</td> <td>3-04-13</td> <td>5-28-13</td> <td>7-19-13</td> <td>10-24-13</td> <td>11-01-13</td> <td>6</td> <td>41</td> </tr> </table>	REVISION DATES							SHEET	OF	11-06-08	1-06-09	11-04-09	1-28-11	10-26-12	3-04-13	5-28-13	7-19-13	10-24-13	11-01-13	6	41
REVISION DATES							SHEET	OF																			
11-06-08	1-06-09	11-04-09	1-28-11	10-26-12	3-04-13	5-28-13	7-19-13	10-24-13	11-01-13	6	41																

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:57

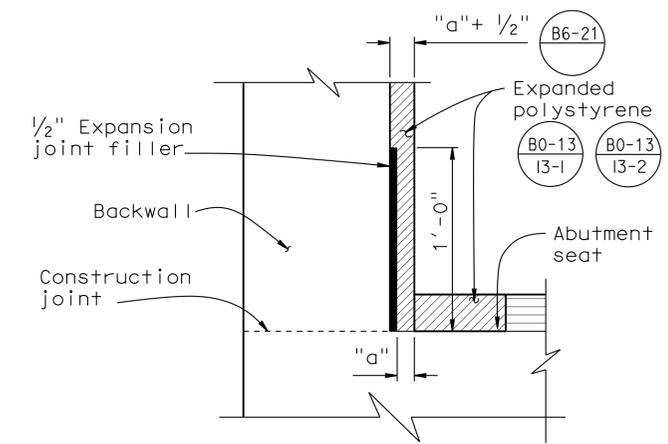
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	773	824
 REGISTERED CIVIL ENGINEER DATE 11-07-13					
6-23-14 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					



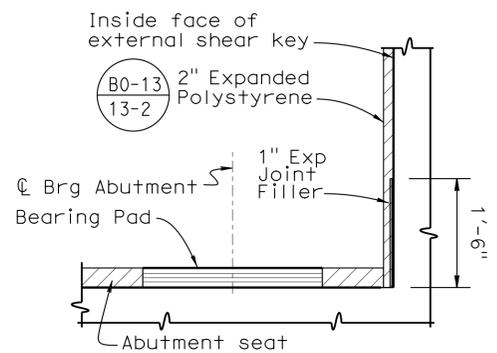
EXTERIOR SHEAR KEY ELEVATION
no scale



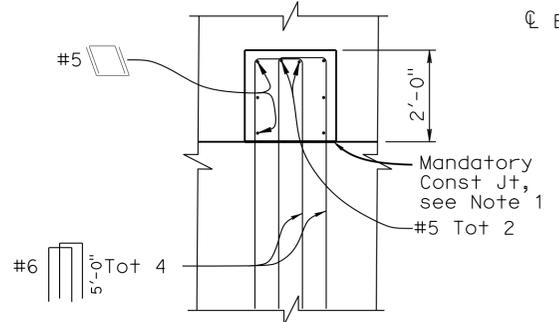
SECTION B-B 1/2"=1'-0"
SECTION C-C 1/2"=1'-0"



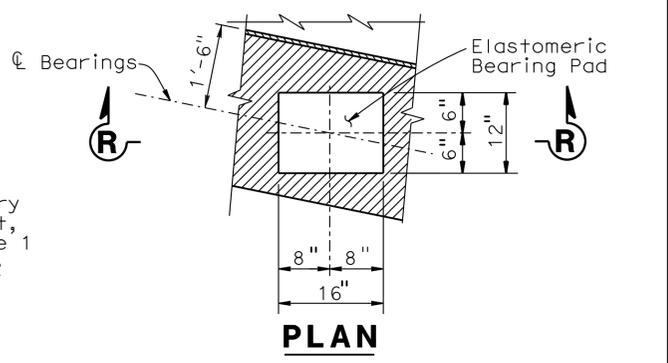
DETAIL "A"
No Scale



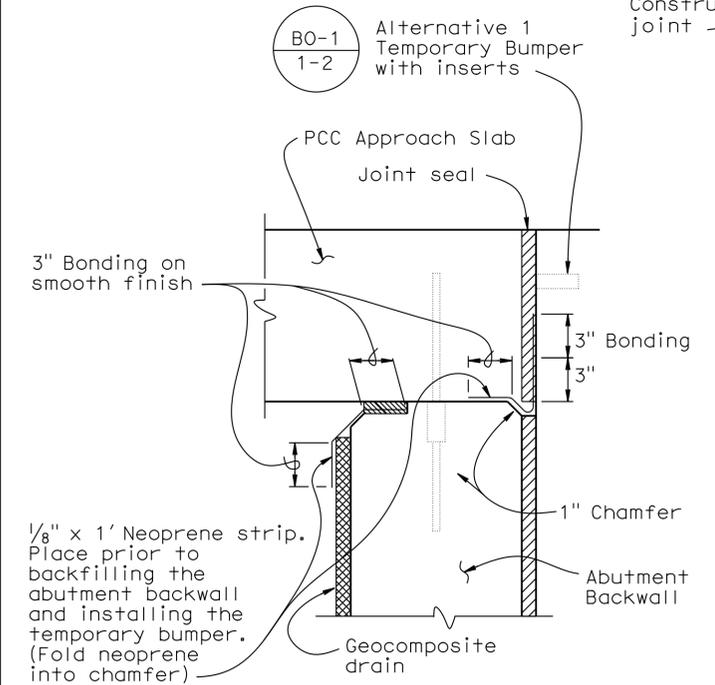
DETAIL "B"
No Scale



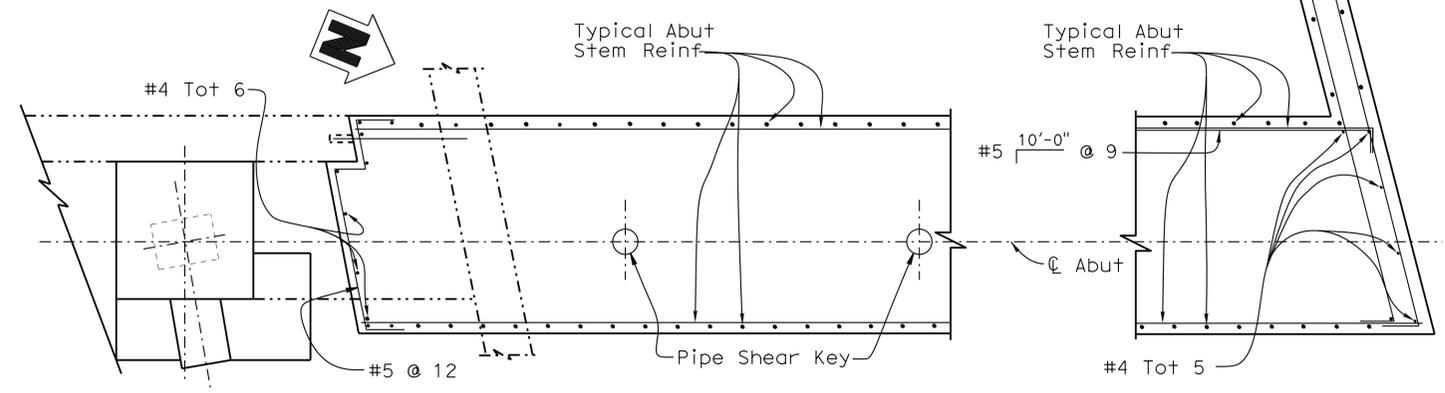
INTERIOR SHEAR KEY ELEVATION
no scale



PLAN
SECTION R-R BEARING PAD DETAIL
No Scale



JOINT PROTECTION DETAIL
No Scale



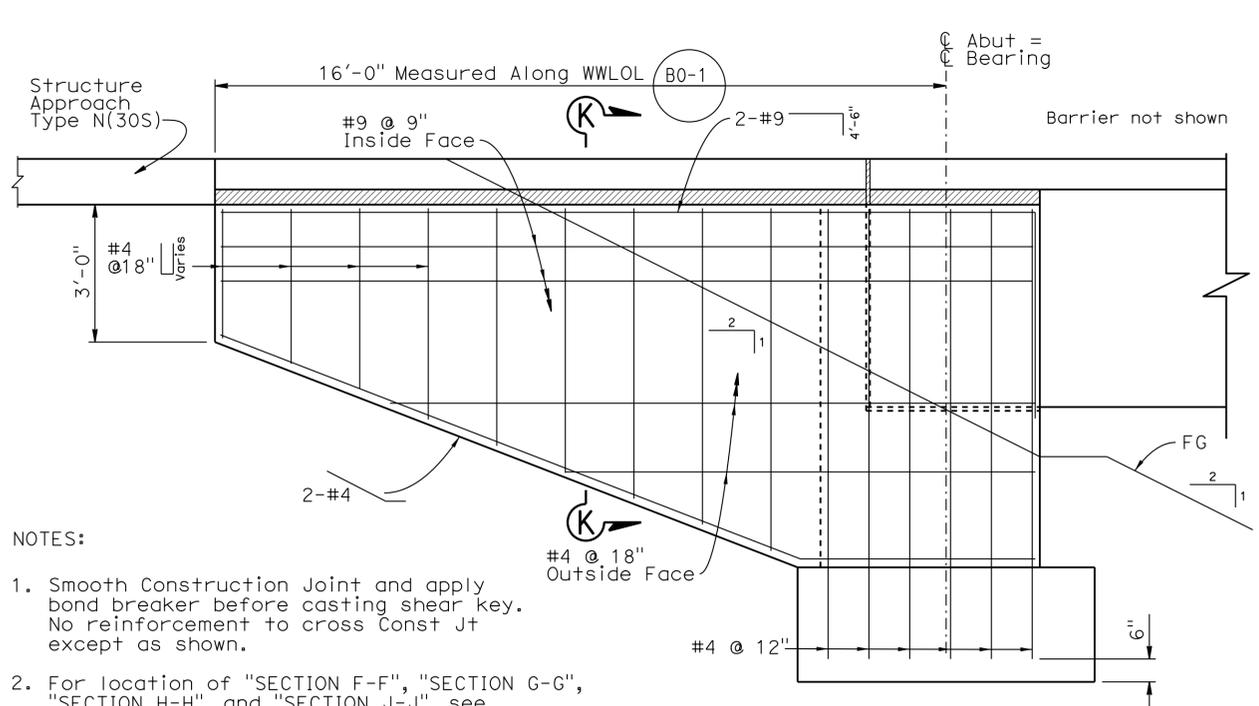
SECTION D-D 1/2"=1'-0"
SECTION E-E 1/2"=1'-0"

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

NOTES:
 1. Smooth Construction Joint and apply bond breaker before casting shear key. No reinforcement to cross Const Jt except as shown.
 2. For location of "SECTION B-B", "SECTION C-C", "SECTION D-D", and "SECTION E-E", see "ABUTMENT 1 LEFT LAYOUT" sheet.

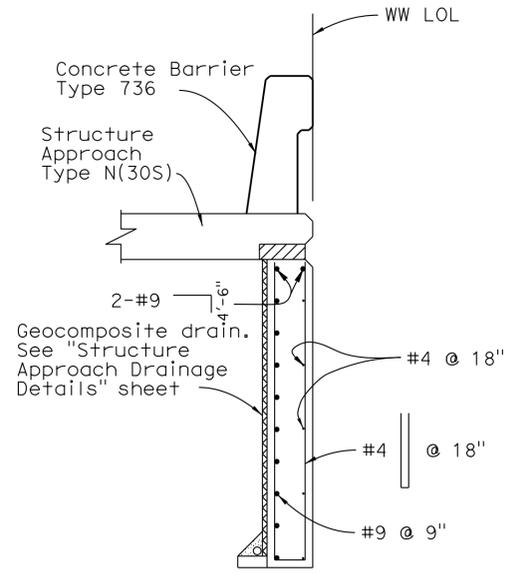
DESIGN	BY R. Stiltz	CHECKED J. Szabo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) ABUTMENT DETAILS NO. 1
DETAILS	BY G. Hallstrom	CHECKED J. Szabo			54-0484	
QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen			POST MILE 43.5	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 10-27-08 3-04-09 11-24-09 1-28-11 10-30-12 3-22-13 5-23-13
				0 1 2 3		SHEET 8 OF 41

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	774	824
REGISTERED CIVIL ENGINEER			DATE	11-07-13	
6-23-14			PLANS APPROVAL DATE		
No. C65738			Exp. 9/30/15		
RYAN STILTZ			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.					

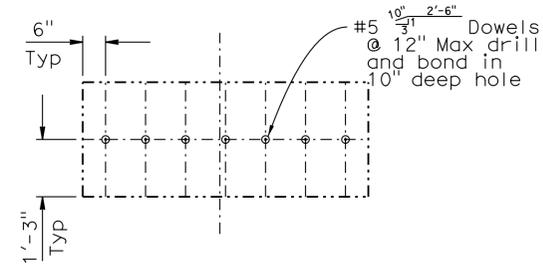


- NOTES:
1. Smooth Construction Joint and apply bond breaker before casting shear key. No reinforcement to cross Const Jt except as shown.
 2. For location of "SECTION F-F", "SECTION G-G", "SECTION H-H", and "SECTION J-J", see "ABUTMENT 1 RIGHT LAYOUT", "ABUTMENT 7 LEFT LAYOUT", and "ABUTMENT 7 RIGHT" sheets.

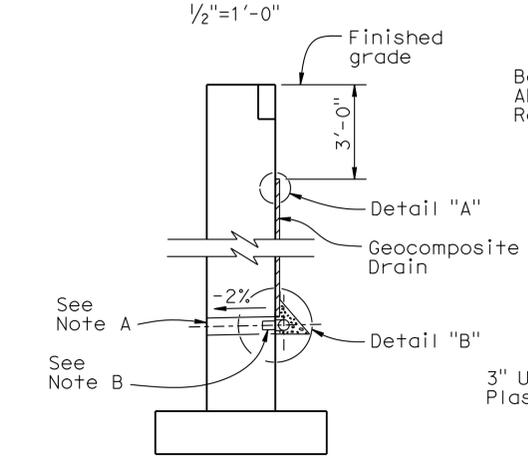
WINGWALL ELEVATION
1/2"=1'-0"



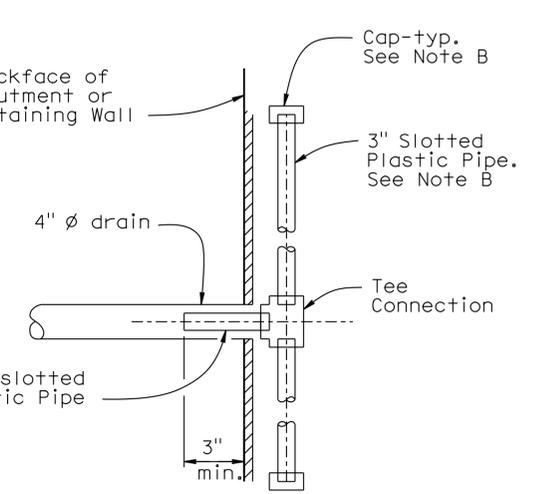
SECTION K-K
1/2"=1'-0"



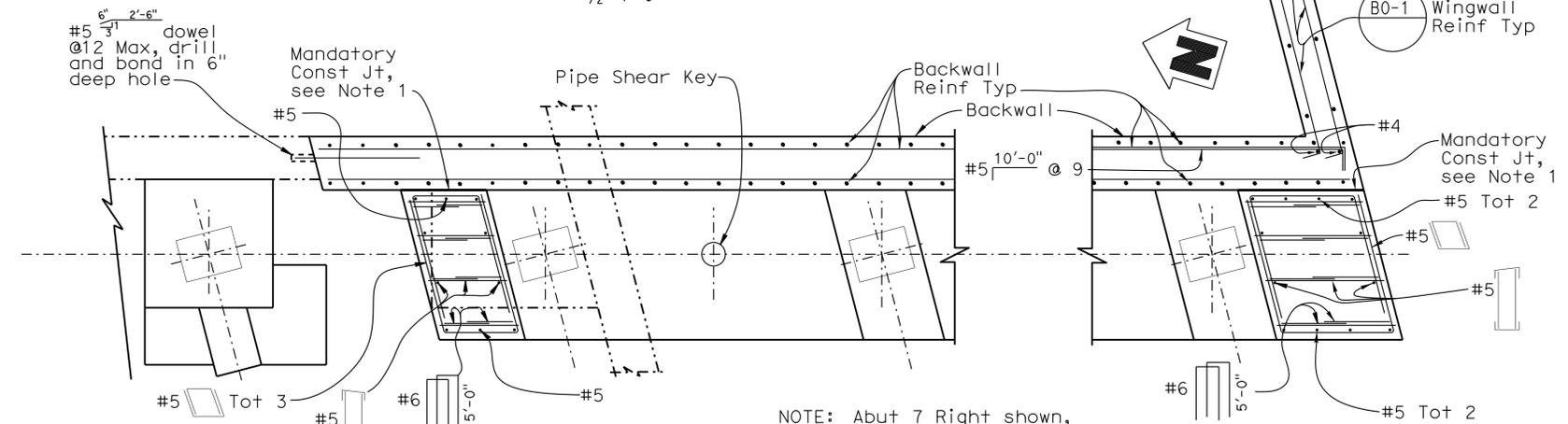
EXISTING ABUTMENT FOOTING ELEVATION



WALL SECTION



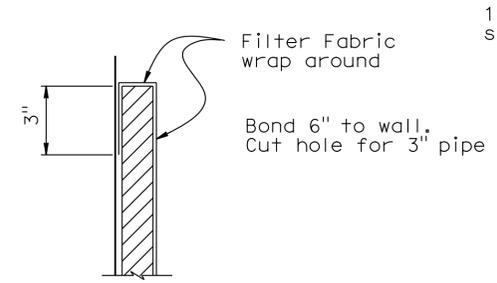
SECTION A-A



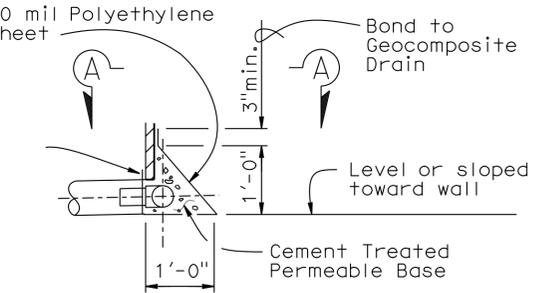
SECTION F-F
1/2"=1'-0"

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

- LEGEND:
- Indicates new construction
 - - - Indicates existing structure



DETAIL "A"

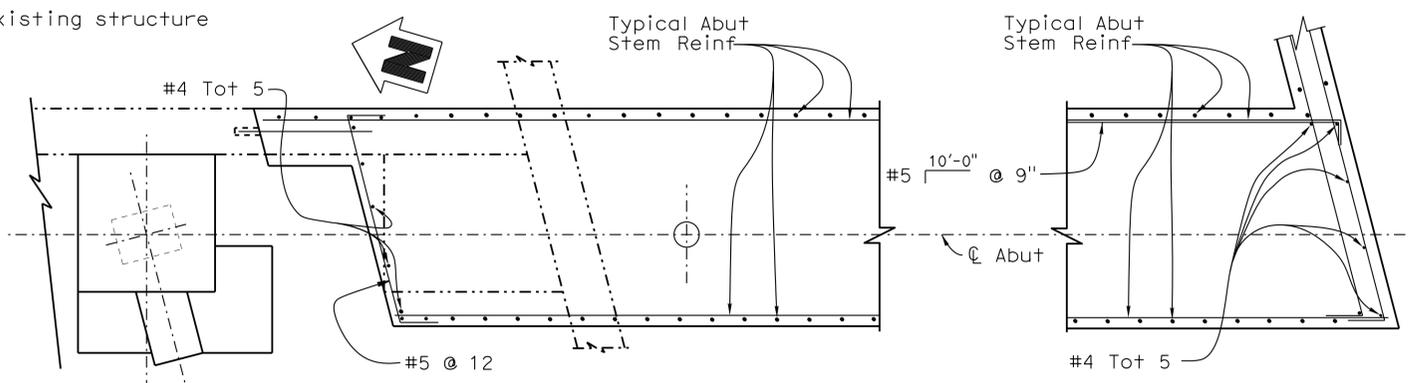


DETAIL "B"

WEEP HOLE AND GEOCOMPOSITE DRAIN

ALTERNATIVE TO BRIDGE DETAIL (BO-3) 3-1

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



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

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

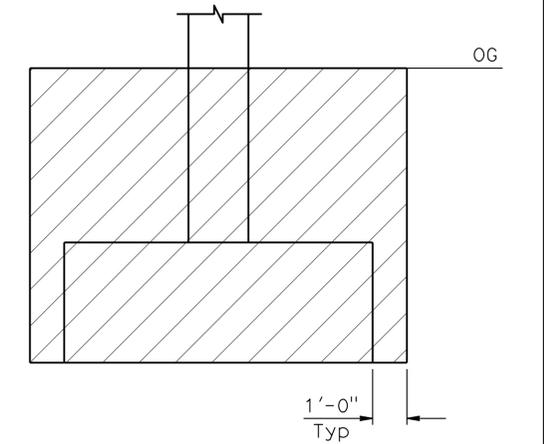
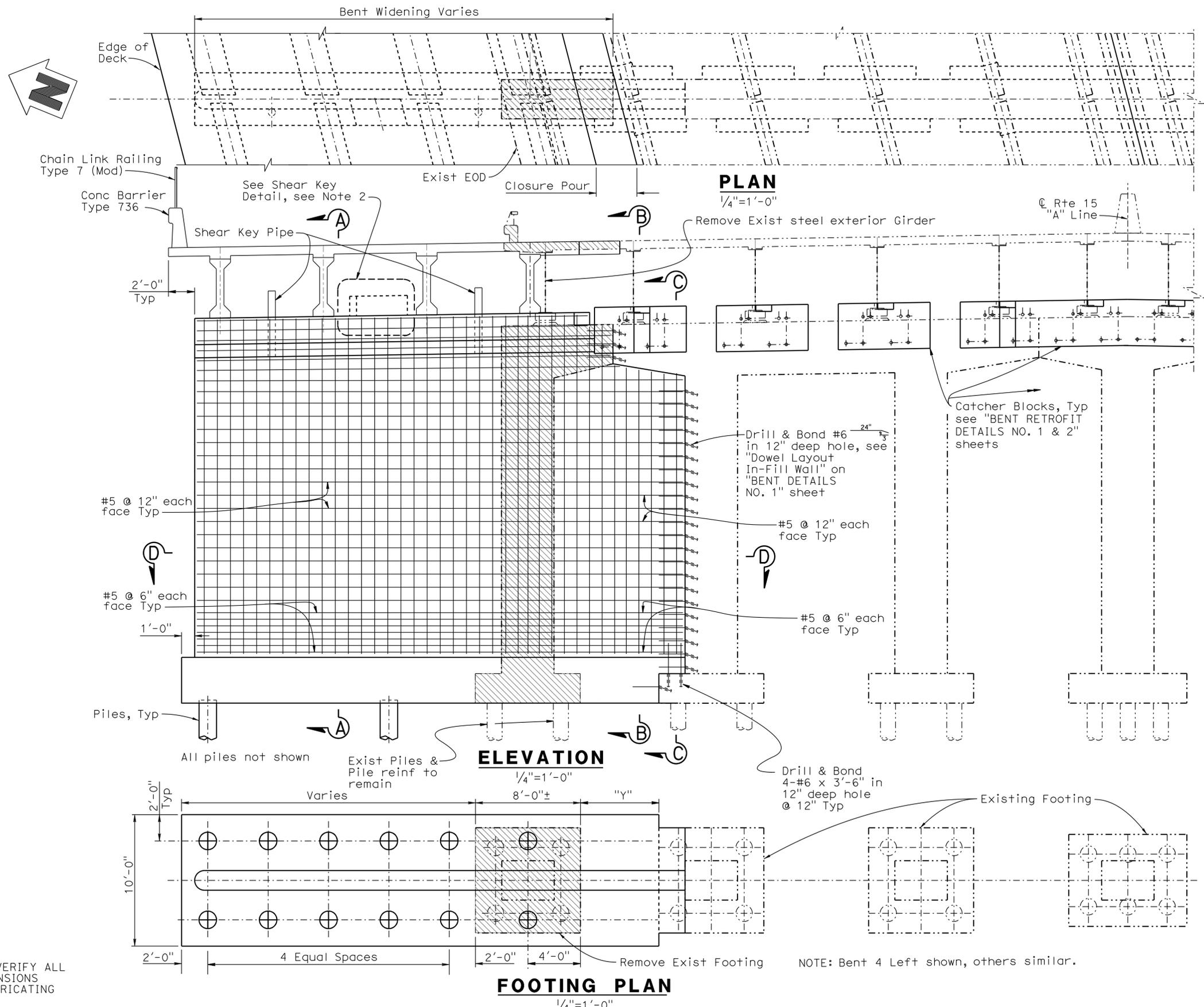
DESIGN	BY	R. Stiltz	CHECKED	J. Szabo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN)		
	DETAILS	BY	G. Hallstrom	CHECKED			J. Szabo	POST MILE		43.5	ABUTMENT DETAILS NO. 2
	QUANTITIES	BY	J. Szabo	CHECKED			T. Sanderson/F. Chen	REVISION DATES		7-10-13	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	7-10-13	OF	41	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	775	824

11-07-13
 REGISTERED CIVIL ENGINEER DATE
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 CIVIL
 STATE OF CALIFORNIA

6-23-14
 PLANS APPROVAL DATE

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



LIMITS AND PAYMENT FOR TYPE D EXCAVATION

NO SCALE
(Typical all Piers)

Structure Excavation, Type D

BENT	LENGTH "Y"
2	6'-3"±
3	6'-3"±
4	6'-0"±
5	8'-0"±
6	8'-3"±

LEGEND:

- Indicates new construction
- Indicates existing structure
- ▨ Indicates bridge removal (portion)
- ⊕ Indicates Class 200 Alt "W" Pile

NOTES:

- For "SECTION A-A", "SECTION B-B", "SECTION C-C" and "SECTION D-D", see "BENT DETAILS NO. 1" sheet.
- For "SHEAR KEY DETAIL" and "PIPE SHEAR KEY DETAIL" see "BENT RIGHT LAYOUT" sheet.

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

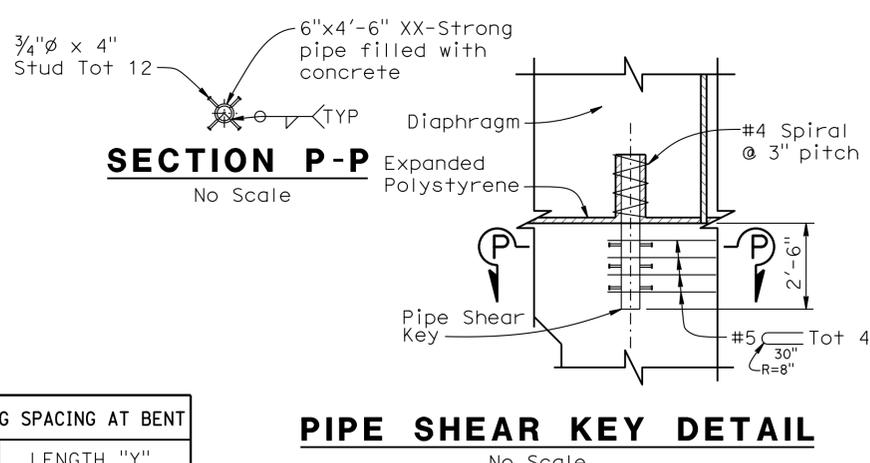
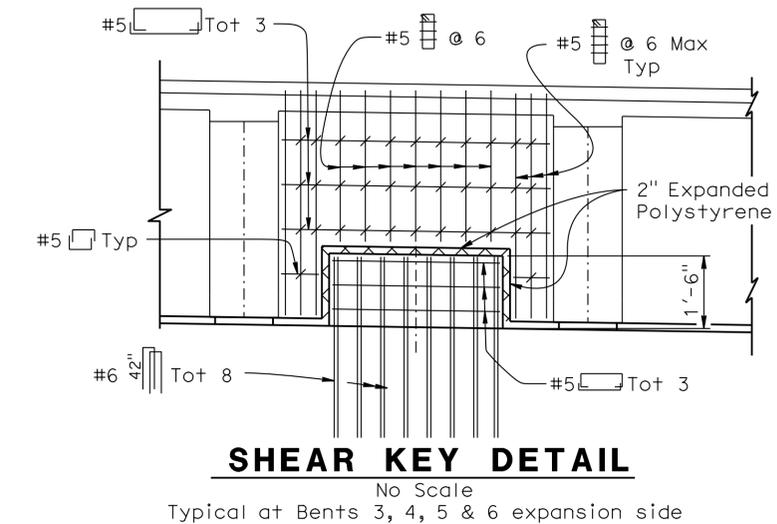
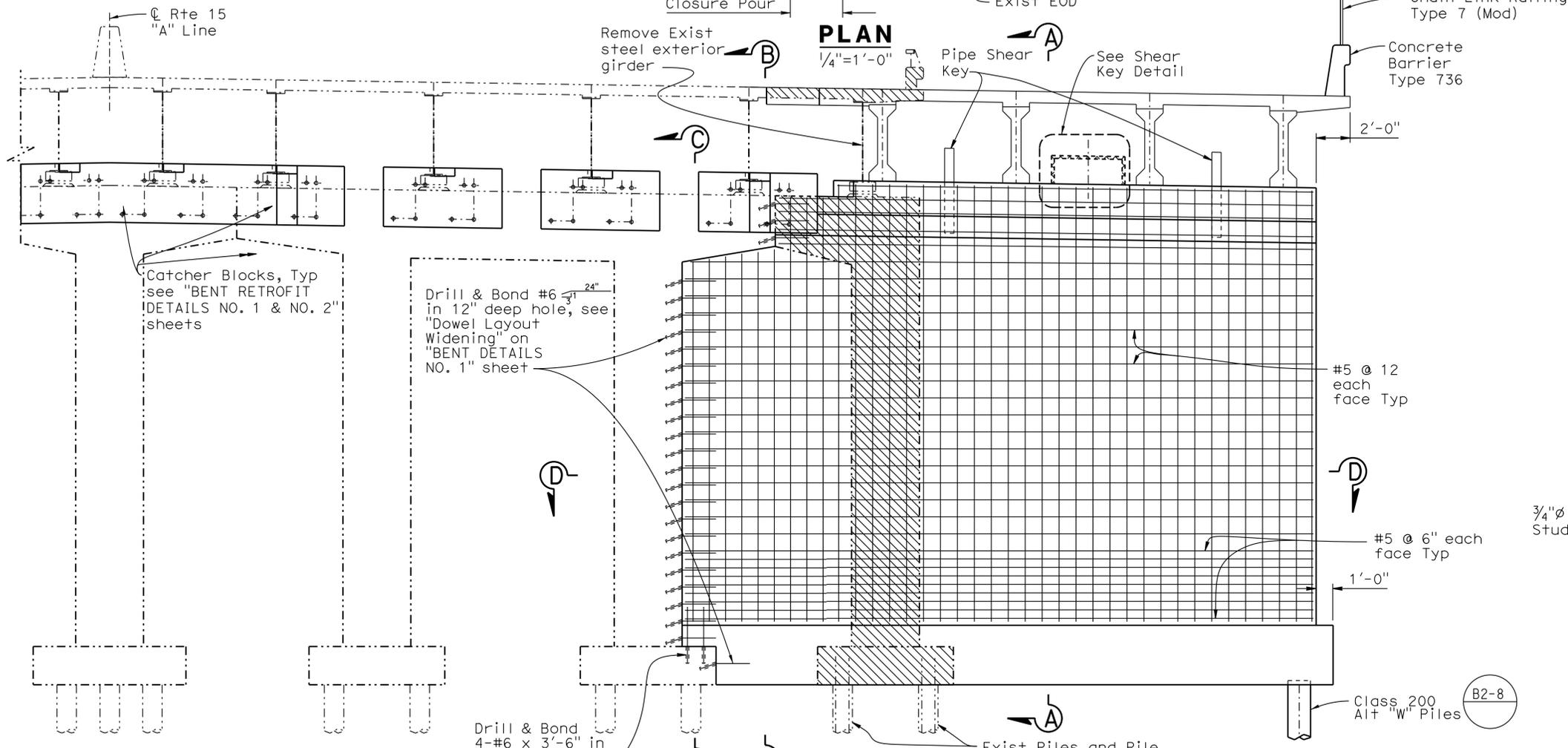
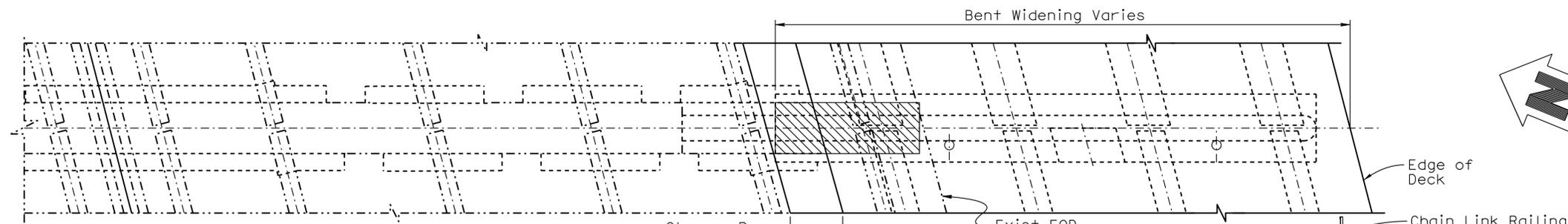
DESIGN BY R. Stiltz CHECKED J. Szabo DETAILS BY G. Hallstrom CHECKED J. Szabo QUANTITIES BY J. Szabo CHECKED T. Sanderson/F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0484 POST MILE 43.5	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) BENT LEFT LAYOUT	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 10-28-08 1-24-11 11-08-12 12-14-12 5-09-13 5-23-13 10-24-13 11-13-13	SHEET 10 OF 41
	FILE => 5404841b_1eff1010.dgn				

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	776	824

11-07-13
 REGISTERED CIVIL ENGINEER DATE
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 CIVIL
 STATE OF CALIFORNIA

6-23-14
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

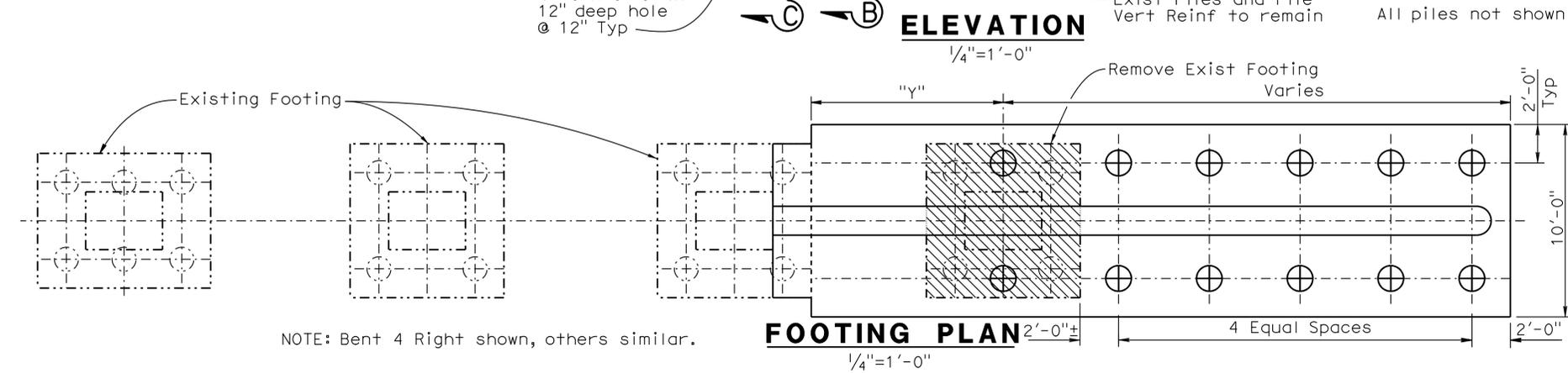


BENT	LENGTH "Y"
2	10'-3"±
3	10'-3"±
4	10'-0"±
5	10'-0"±
6	10'-3"±

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

LEGEND:
 — Indicates new construction
 - - - Indicates existing structure
 [Hatched] Indicates Bridge Removal (Portion)
 ⊕ Indicates Class 200 Alt "W" Pile

NOTE:
 For "SECTION A-A", "SECTION B-B", "SECTION C-C", and "SECTION D-D", see "BENT DETAILS NO. 1" sheet.

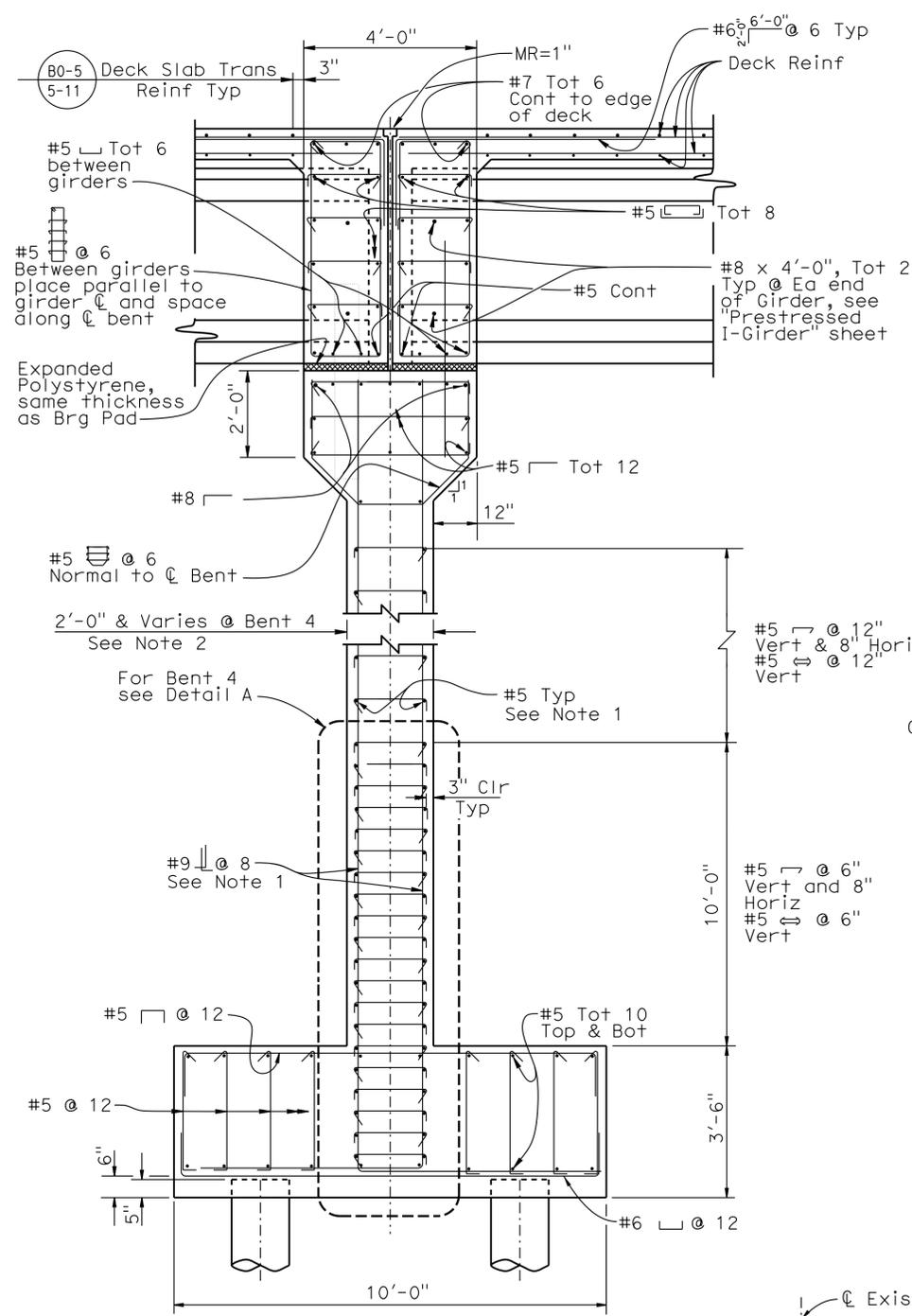
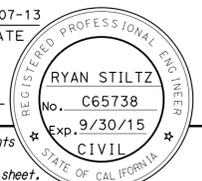


NOTE: Bent 4 Right shown, others similar.

DESIGN BY R. Stiltz	CHECKED J. Szabo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) BENT RIGHT LAYOUT
DETAILS BY G. Hallstrom	CHECKED J. Szabo		POST MILE 43.5	
QUANTITIES BY J. Szabo	CHECKED T. Sanderson/F. Chen		DESIGN BRANCH 10	

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 CU 08 EA 3555V1
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 10-29-08, 12-14-08, 6-28-09, 11-20-12, 12-11-12, 3-22-13, 5-09-13, 11-01-13
 SHEET 11 OF 41

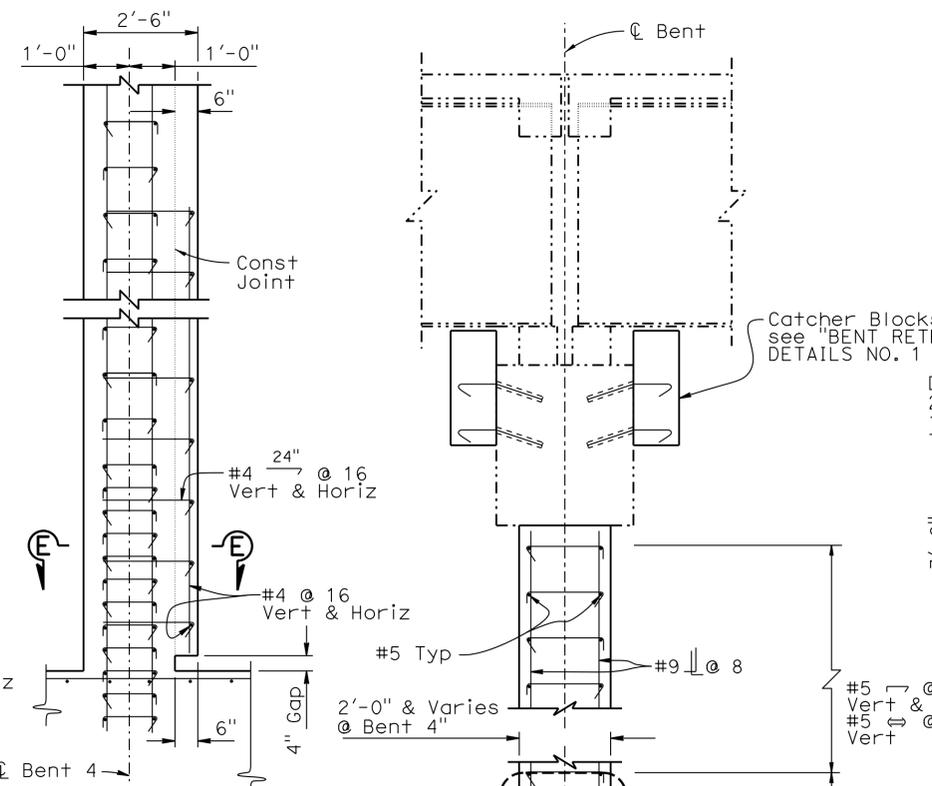
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO	TOTAL SHEETS
08	SBd	15	42.5/46.0	777	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



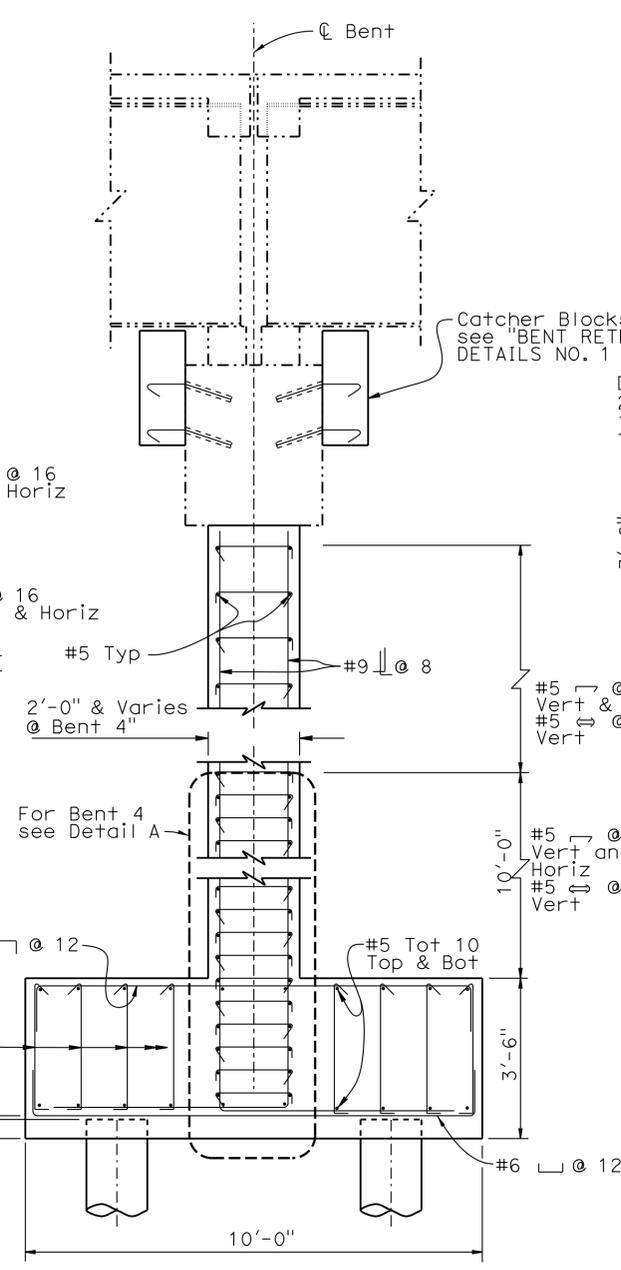
SECTION A-A
1/2"=1'-0"

NOTE: Bent 3 shown, Bent 6 similar, Raised Pedestal required at Bent 4 and Bent 5, see "DETAIL B" on "BENT DETAILS NO. 2" sheet.

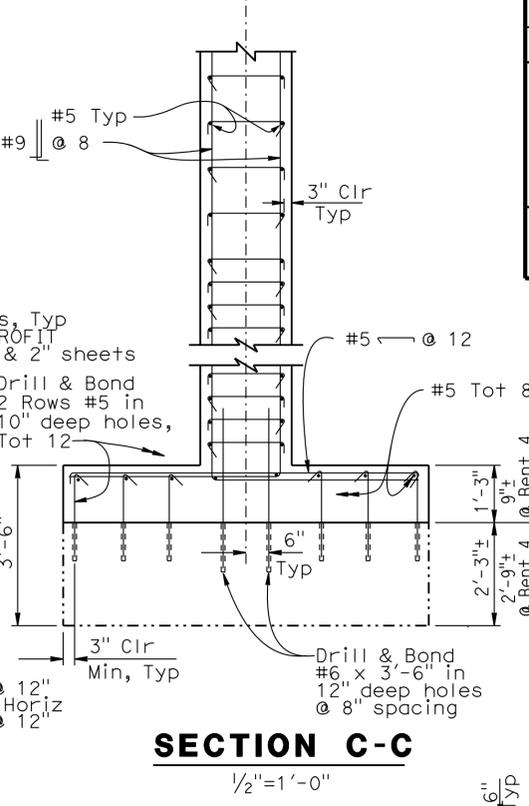
NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



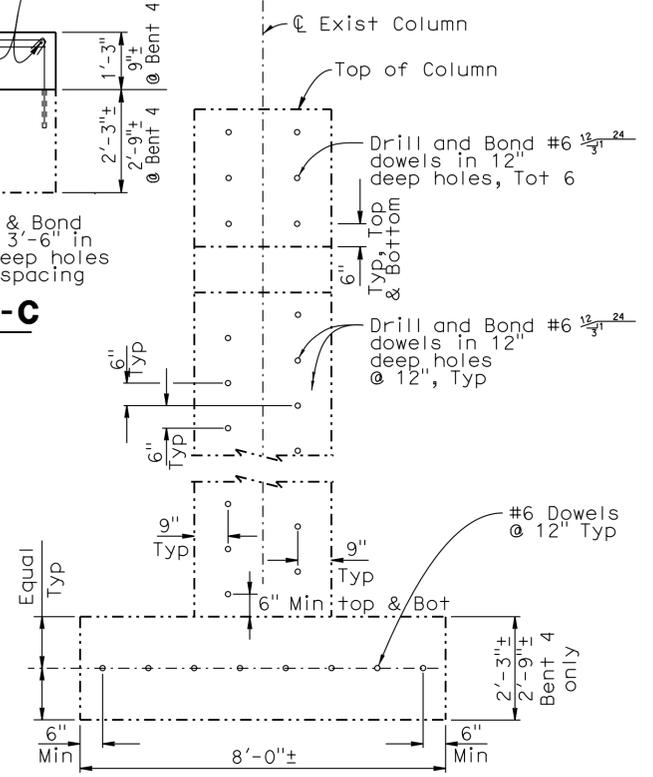
DETAIL - A
1/2"=1'-0"
Bent 4 Only



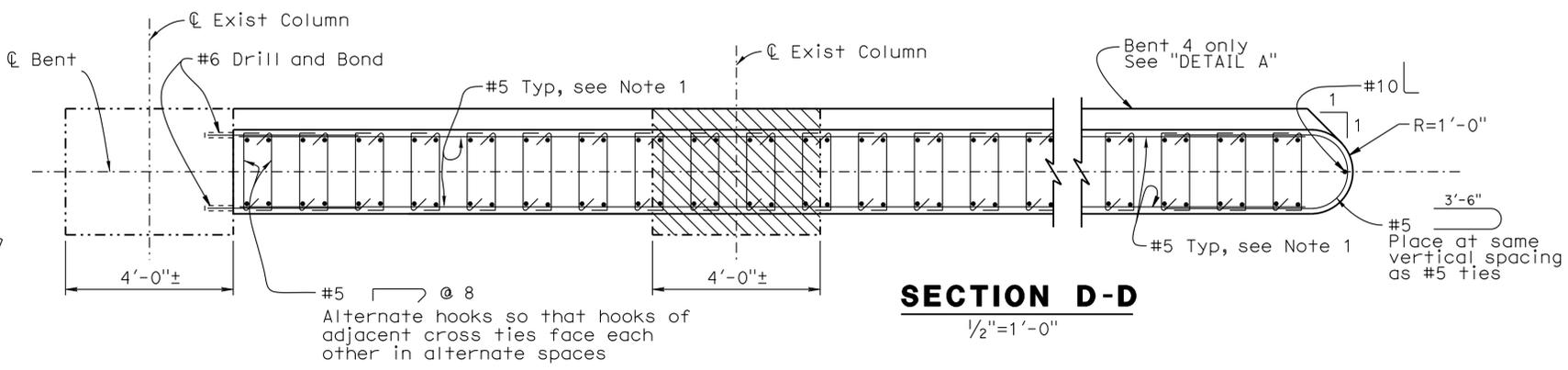
SECTION B-B
1/2"=1'-0"



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



DOWEL LAYOUT WIDENING
1/2"=1'-0"



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

- LEGEND:
- Indicates new construction
 - Indicates existing structure
 - ▨ Indicates Bridge Removal (Portion)
- NOTES:
- No splices allowed for #9 vertical and #5 horizontal reinforcements.
 - Additional thickness and details for concrete surface textures not shown, see "BENT ARCHITECTURAL DETAILS" sheet.
 - For location of "SECTION A-A", "SECTION B-B", "SECTION C-C", and "SECTION D-D", see "BENT LEFT LAYOUT" and "BENT RIGHT LAYOUT" sheets.
 - For "SECTION E-E", see "BENT DETAILS NO. 2" sheet.

DESIGN	BY R. Stiltz	CHECKED J. Szabo
DETAILS	BY G. Hallstrom	CHECKED J. Szabo
QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
DEPARTMENT OF TRANSPORTATION	STRUCTURE DESIGN	54-0484	
	DESIGN BRANCH 10	POST MILE	
		43.5	

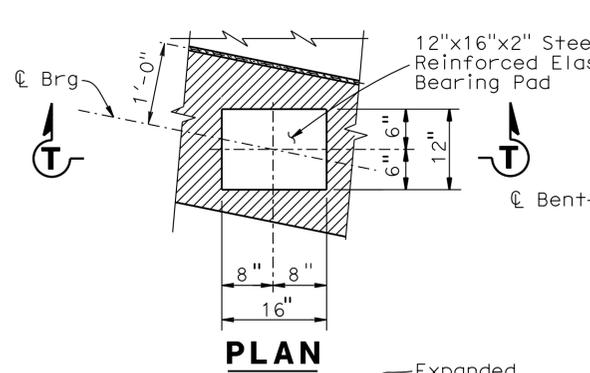
BENT DETAILS NO. 1		REVISION DATES		SHEET	OF
		10-29-08	04-24-14	12	41

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	778	824

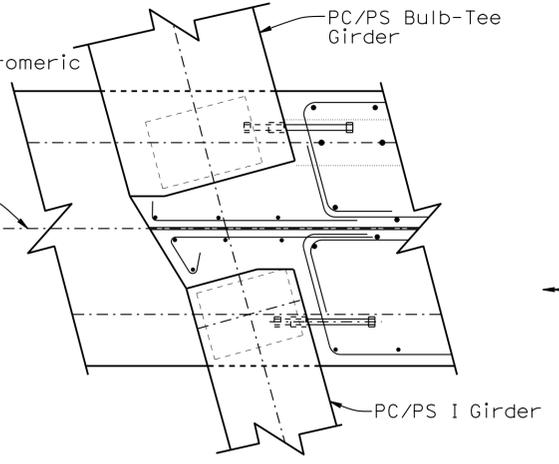
REGISTERED CIVIL ENGINEER	DATE
11-07-13	
6-23-14	PLANS APPROVAL DATE
RYAN STILTZ	No. C65738
Exp. 9/30/15	CIVIL
STATE OF CALIFORNIA	

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.

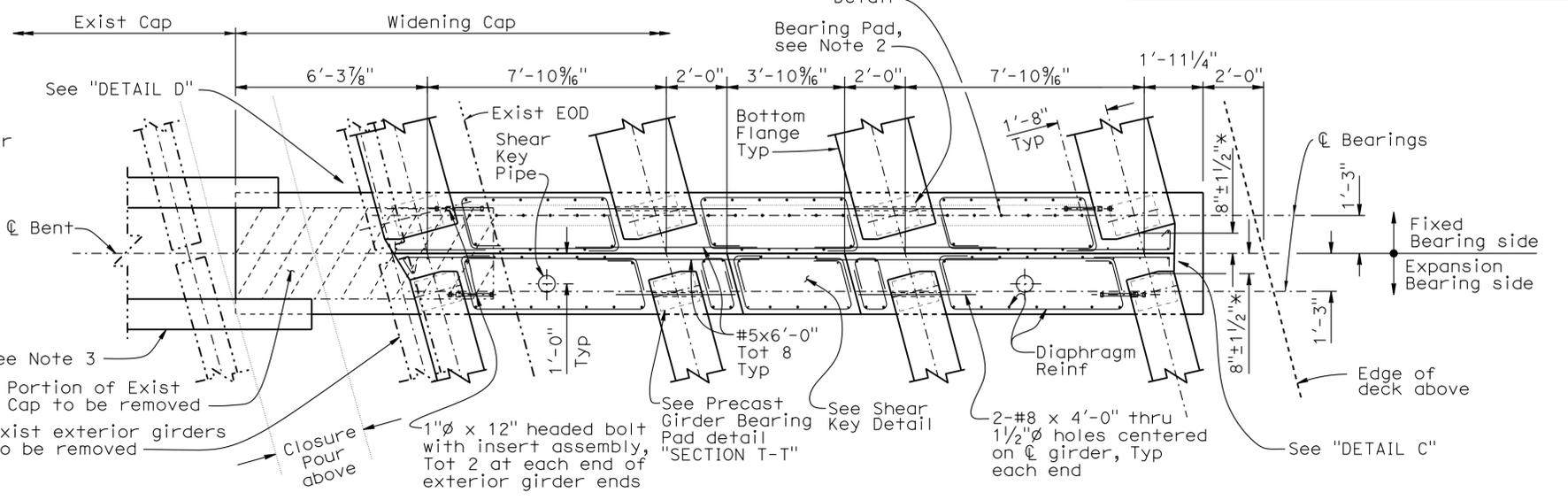
* NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



SECTION T-T
No Scale
BEARING PAD DETAIL FOR PRECAST PRESTRESSED I GIRDER

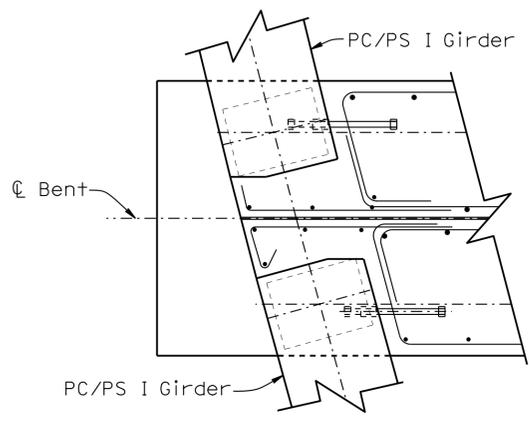


DETAIL - D
3/4"=1'-0"
Bent 4 shown, Bent 5 similar
For details not shown see "DETAIL C"

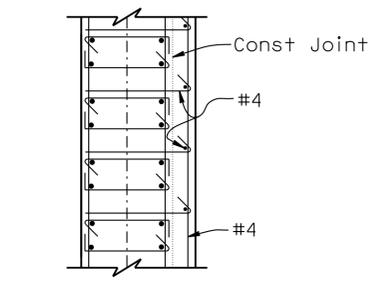


NOTE: Right Widening, Bent 4 shown, Bents 3, 5, & 6 similar

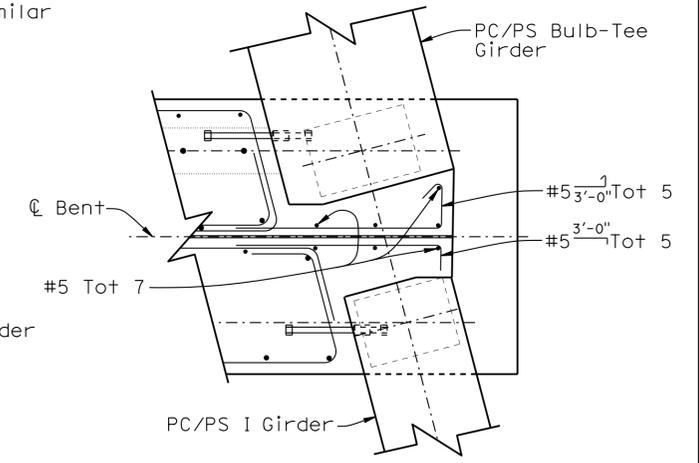
BENT DIAPHRAGM - PLAN
3/8"=1'-0"



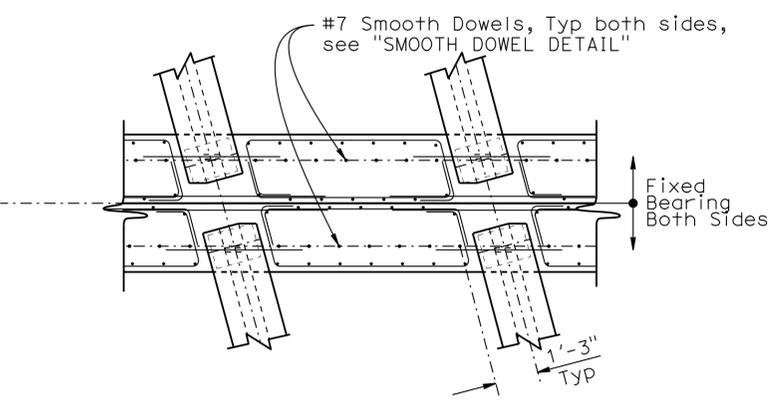
DETAIL - E
3/4"=1'-0"
Bent 2, 3, 6 Left shown, Bent 2, 3, 6 Right similar.
For details not shown, see "DETAIL C".



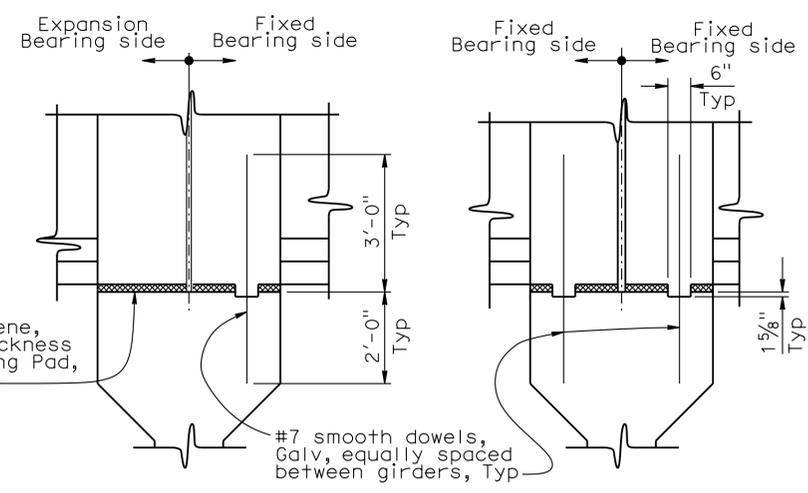
SECTION E-E
1/2"=1'-0"



DETAIL - C
3/4"=1'-0"
Bent 4 shown, Bent 5 similar

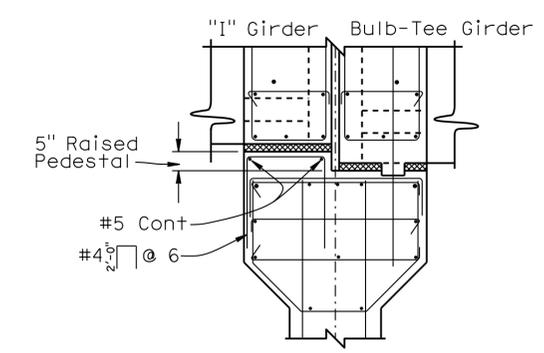


BENT 2 DIAPHRAGM - PARTIAL PLAN
3/8"=1'-0"



BENTS 3, 4, 5 & 6
BENT 2 Only
NOTE: Raised Pedestal not shown for Bent 4 and Bent 5, see "DETAIL B".
See "SECTION A-A" on "BENT DETAILS NO. 1" sheet for Reinf not shown.

SMOOTH DOWEL DETAIL
1/2"=1'-0"



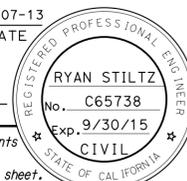
DETAIL - B
1/2"=1'-0"
Bent 4 shown, Bent 5 similar

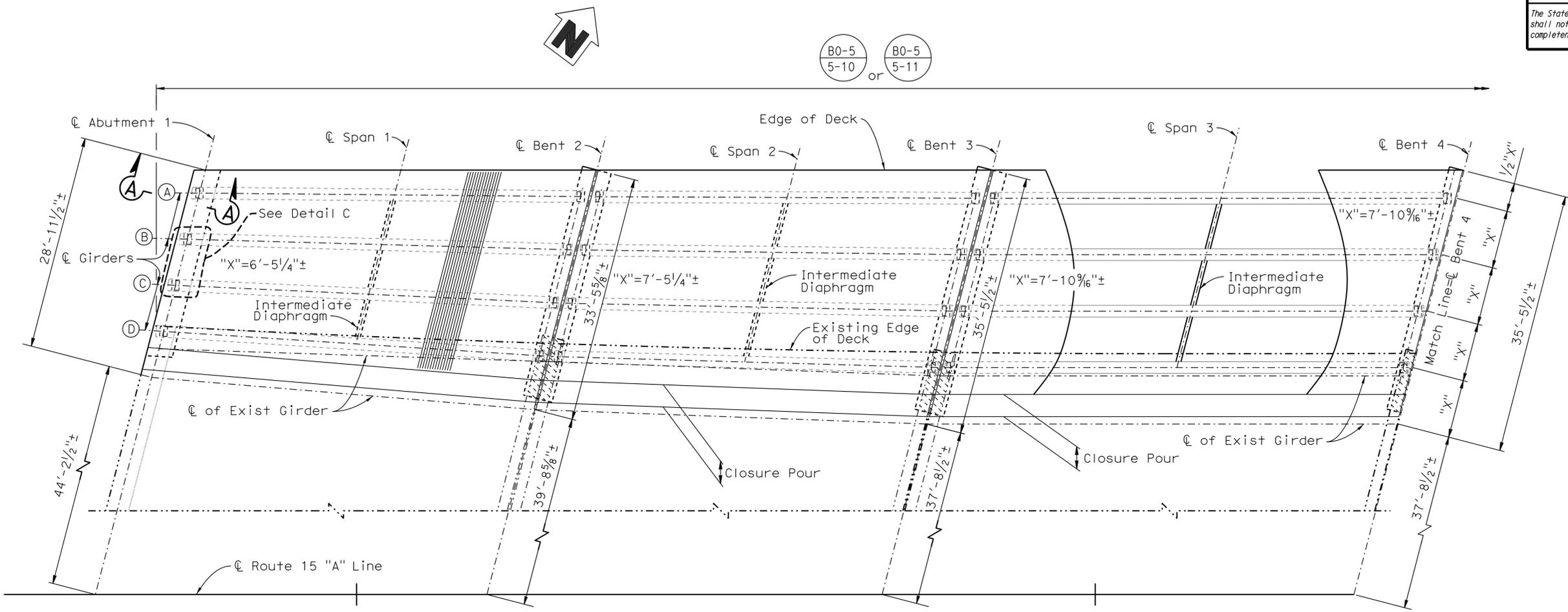
- LEGEND:
— Indicates new construction
--- Indicates existing structure
- NOTES:
1. For "SHEAR KEY DETAIL" and "PIPE SHEAR KEY DETAIL", see "BENT RIGHT LAYOUT" sheet.
2. For Bulb Tee Bearing Pad Detail, see "SECTION S-S", on "RIGHT WIDENING GIRDER LAYOUT NO. 2" sheet.
3. For catcher beams and shear key details on Exist bents, see "BENT RETROFIT DETAILS NO. 1" and "BENT RETROFIT DETAILS NO. 2" sheets.

DESIGN	BY R. Stiltz	CHECKED J. Szabo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) BENT DETAILS NO. 2
DETAILS	BY G. Hallstrom	CHECKED J. Szabo			POST MILE	43.5	
QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen					

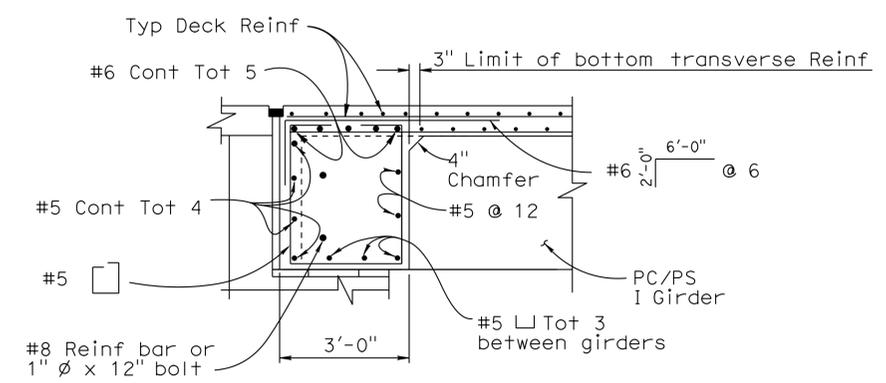
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 13 OF 41
--	--	---------	--------------------	---	----------------	----------------

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	781	824


 11-07-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



GIRDER LAYOUT
1/8"=1'-0"



SECTION A-A
No Scale

- LEGEND:**
- Indicates new construction
 - - - Indicates existing structure
 - ▨ Indicates Bridge Removal (Portion) and Place Structure Concrete, Bridge
- NOTES:**
- For "DETAIL C" see "RIGHT WIDENING GIRDER LAYOUT NO. 1" sheet.

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

DESIGN	BY R. Stiltz	CHECKED J. Szabo
DETAILS	BY G. Hallstrom	CHECKED J. Szabo
QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	54-0484
POST MILE	43.5

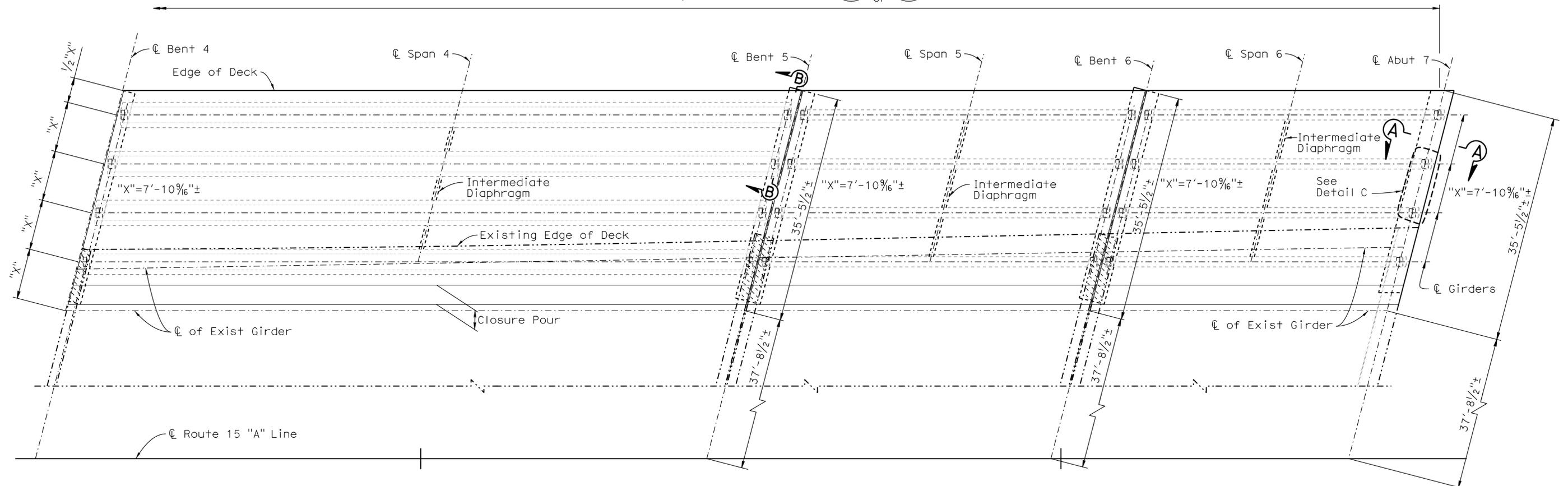
VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
LEFT WIDENING GIRDER LAYOUT NO. 1

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	782	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER RYAN STILTZ No. C65738 Exp. 9/30/15 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.					



B0-5
5-10 or B0-5
5-11



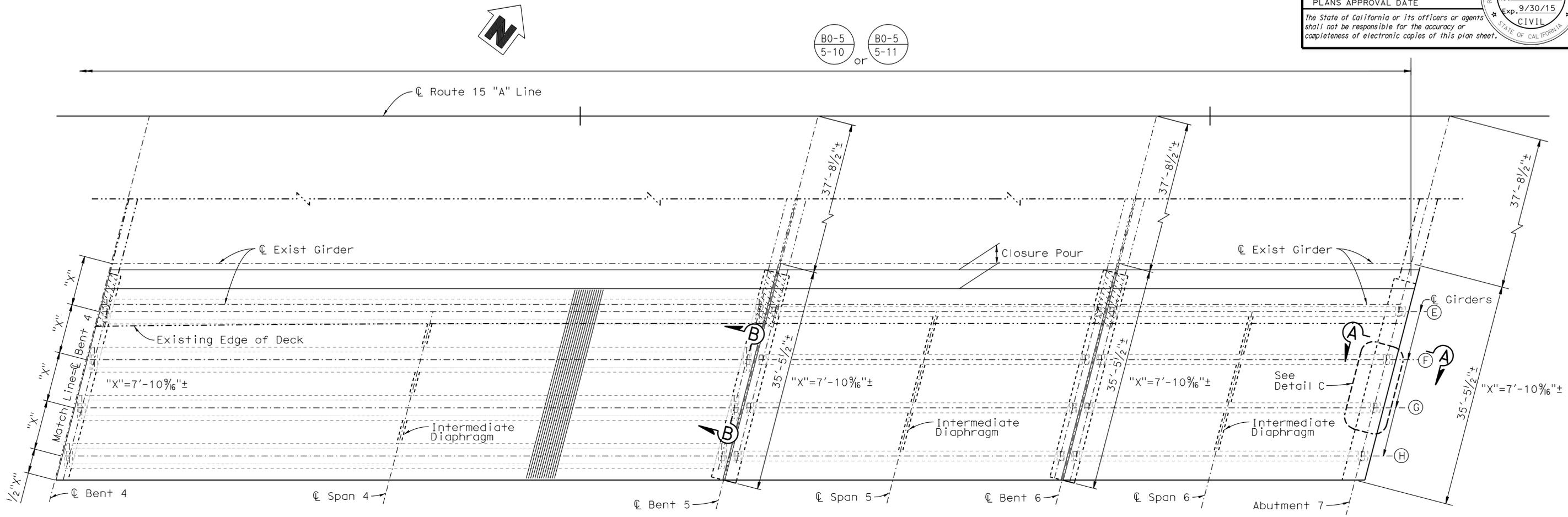
GIRDER LAYOUT
1/8" = 1' - 0"

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

- LEGEND:
- Indicates new construction
 - Indicates existing structure
 - ▨ Indicates Bridge Removal (Portion) and Place Structure Concrete, Bridge
- NOTES:
- For "SECTION A-A" see "LEFT WIDENING GIRDER LAYOUT NO. 1" sheet.
 - For "DETAIL C" see "RIGHT WIDENING GIRDER LAYOUT NO. 1" sheet.
 - For "SECTION B-B" see "RIGHT WIDENING GIRDER LAYOUT NO. 2" sheet.

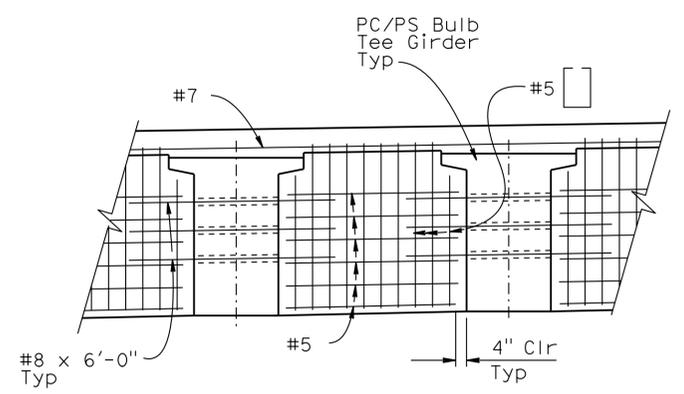
DESIGN BY R. Stiltz CHECKED J. Szabo DETAILS BY G. Hallstrom CHECKED J. Szabo QUANTITIES BY J. Szabo CHECKED T. Sanderson/F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0484 POST MILE 43.5	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) LEFT WIDENING GIRDER LAYOUT NO. 2	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 11-05-08 12-24-08 11-03-09 12-28-12 11-01-13	SHEET 17 OF 41
	STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	FILE => 5404841g_1o17.dgn	USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:58		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	784	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			RYAN STILTZ No. C65738 Exp. 9/30/15 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.					



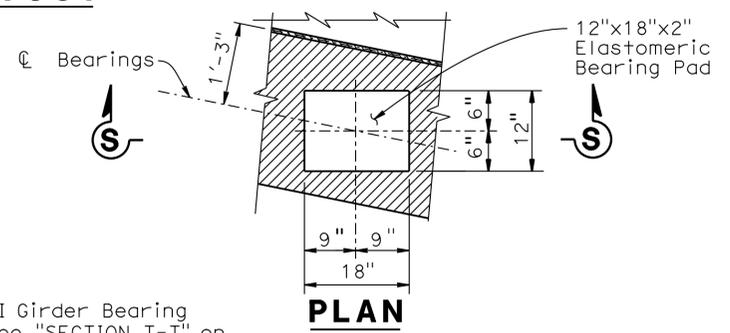
GIRDER LAYOUT

1/8" = 1' - 0"

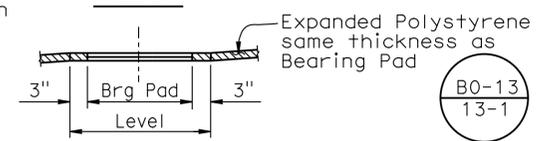


SECTION B-B
No Scale

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



PLAN



SECTION S-S
No Scale

BEARING PAD DETAIL FOR BULB TEE GIRDERS

NOTE:
For Precast I Girder Bearing pad detail, see "SECTION T-T" on "BENT DETAILS NO. 2" sheet.

LEGEND:

- Indicates new construction
- - - Indicates existing structure
- ▨ Indicates Bridge Removal (Portion) and Place Structure Concrete, Bridge

NOTES:

1. For "SECTION A-A", see "LEFT WIDENING GIRDER LAYOUT NO. 1" sheet.
2. For "DETAIL C", see "RIGHT WIDENING GIRDER LAYOUT NO. 1" sheet.
3. For Intermediate Diaphragm details, see "PRECAST PRESTRESSED I GIRDER" and "PC/PS BULB-TEE GIRDER (MISCELLANEOUS DETAILS)" sheets.

DESIGN BY R. Stiltz CHECKED J. Szabo DETAILS BY G. Hallstrom CHECKED J. Szabo QUANTITIES BY J. Szabo CHECKED T. Sanderson/F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) RIGHT WIDENING GIRDER LAYOUT NO. 2
			POST MILE 43.5	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)			DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 19 OF 41

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

CU 08
EA 3555V1

7-24-08	9-21-09	11-09-09	2-09-11	12-20-12	3-06-13	7-08-13	11-01-13
---------	---------	----------	---------	----------	---------	---------	----------

FILE => 5404841g_1o19.dgn

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	785	824

11-07-13
REGISTERED CIVIL ENGINEER DATE

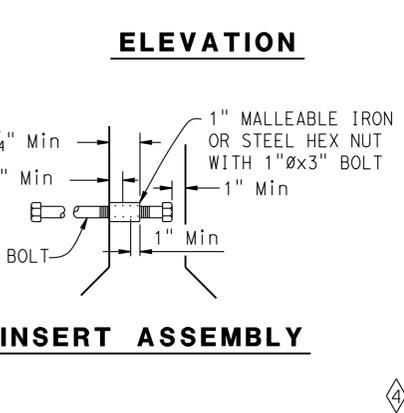
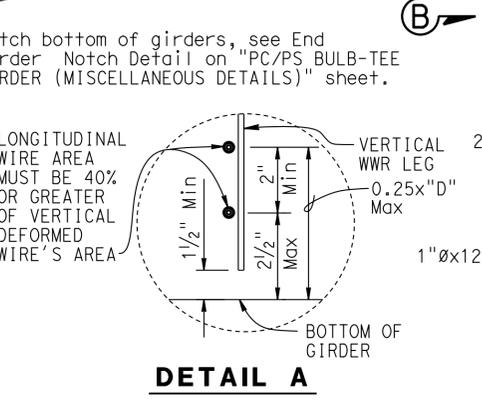
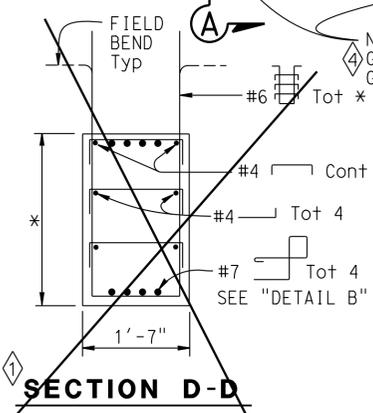
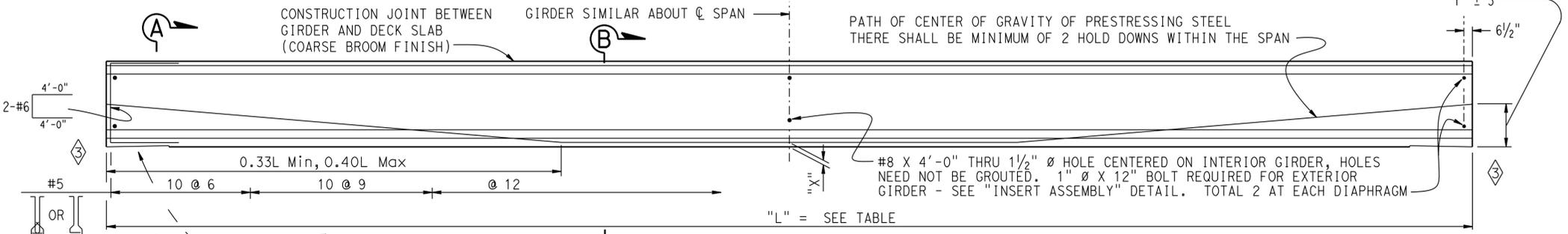
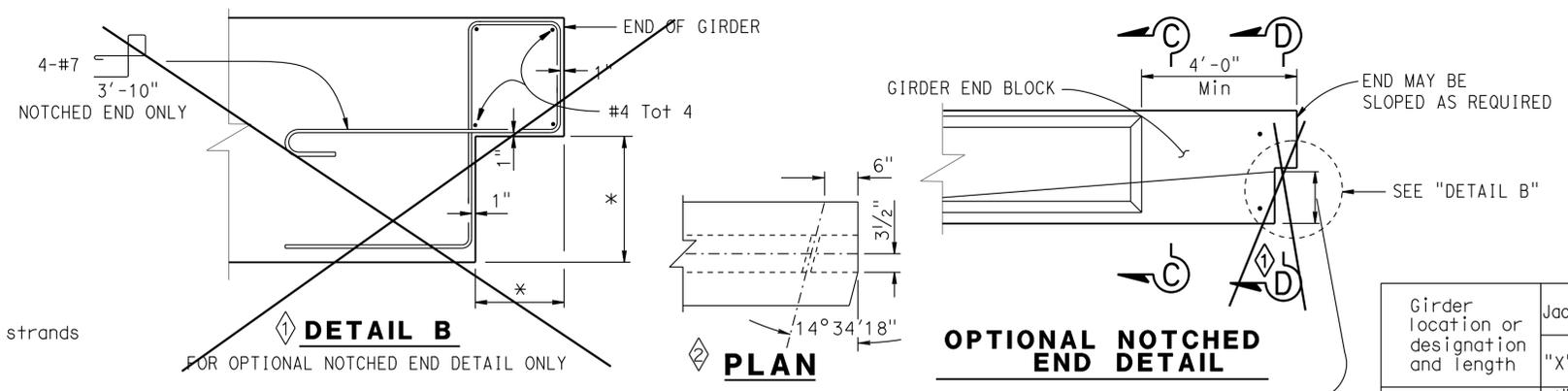
6-23-14
PLANS APPROVAL DATE

RYAN STILTZ
No. C65738
Exp. 9/30/15
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

1. Strands may be bundled in groups consisting of 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" ϕ strands, 1 3/4" for 1/2" ϕ strands, 2" for 0.6" ϕ strands
3. "S" is measured between centers of adjacent strands
4. Approval by the Engineer is required for deviation



GENERAL NOTES

JACKING FORCE (P): 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.

CONCRETE STRENGTH: f'_{ci} is at time of initial stressing
 f'_c is at 28 days

DEFLECTION COMPONENTS: Informational - to be used in setting screed line elevations

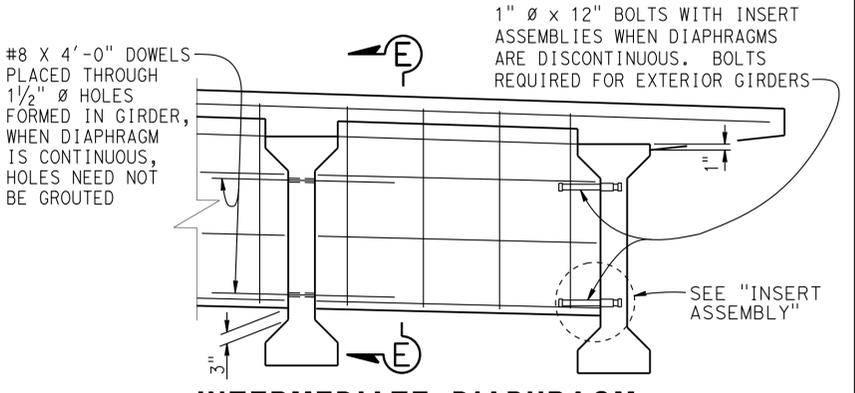
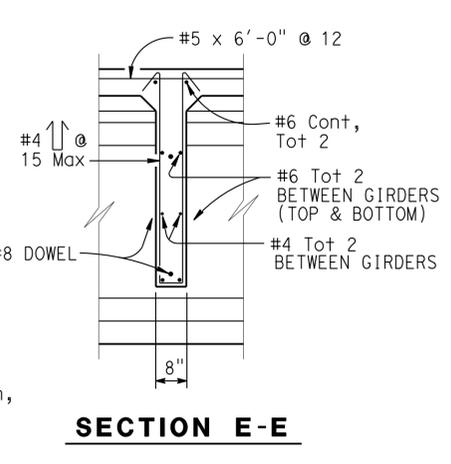
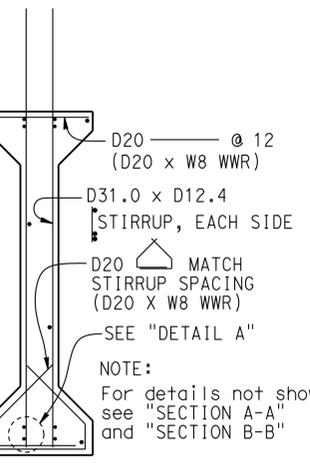
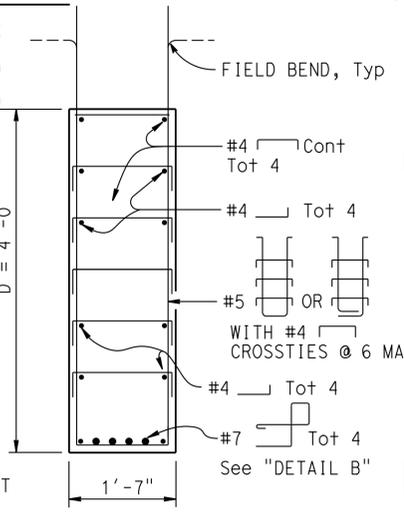
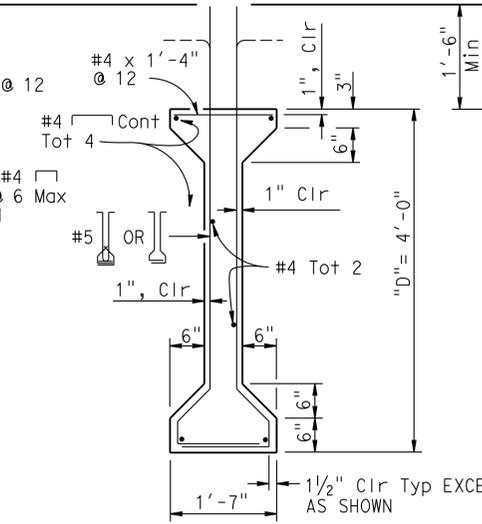
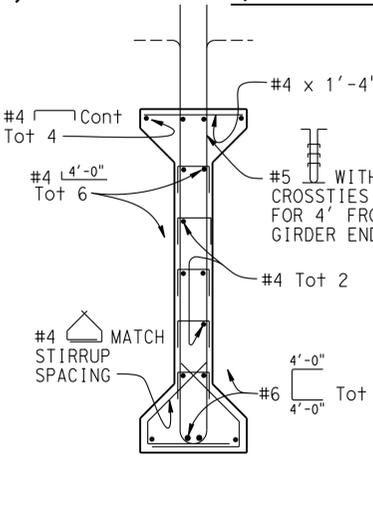
Screed line elevations for deck concrete will be determined by the Engineer.

Contractor may interpolate "P" and "X" values between limits shown, as approved by the Engineer.

Use epoxy coated reinforcement in Environmental Area III

Contractor to verify span lengths prior to girder fabrication.

Girder location or designation and length	Jacking Force (P) (Kips)	"Y" (in)	Concrete Strength (ksi)		Midspan Dead Load Deflection (inches)	
			f'_{ci}	f'_c	Deck	Rail
SPAN 1 LEFT A, L=53'-3"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 1 LEFT B, L=53'-0"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 1 LEFT C, L=52'-9"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 1 LEFT D, L=52'-7"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 2 LEFT A,B, L=52'-0"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 2 LEFT C,D, L=51'-10"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 3 LEFT A,B, L=62'-2"	4" 580 6" 600	4"	4.0	5.0	0.4	0.04
SPAN 3 LEFT C,D, L=62'-2"	4" 580 6" 600	4"	4.0	5.0	0.4	0.04
SPAN 5 LEFT A,B, L=52'-5"	4" 490 6" 600	4"	4.0	5.0	0.2	0.02
SPAN 5 LEFT C,D, L=52'-5"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 6 LEFT A,B, L=46'-11"	4" 490 6" 500	4"	4.0	5.0	0.15	0.01
SPAN 6 LEFT C,D, L=46'-11"	4" 490 6" 500	4"	4.0	5.0	0.15	0.01
SPAN 1 RIGHT E,F, L=53'-9"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 1 RIGHT G,H, L=53'-6"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 2 RIGHT E,F, L=52'-6"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 2 RIGHT G,H, L=52'-3"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 3 RIGHT E,F, L=62'-3"	4" 580 6" 600	4"	4.0	5.0	0.4	0.04
SPAN 3 RIGHT G,H, L=62'-3"	4" 580 6" 600	4"	4.0	5.0	0.4	0.04
SPAN 5 RIGHT E,F, L=52'-5"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 5 RIGHT G,H, L=52'-5"	4" 490 6" 500	4"	4.0	5.0	0.2	0.02
SPAN 6 RIGHT E,F, L=46'-9"	4" 490 6" 500	4"	4.0	5.0	0.15	0.01
SPAN 6 RIGHT G,H, L=46'-9"	4" 490 6" 500	4"	4.0	5.0	0.15	0.01



SPECIAL DETAILS

REVISED STANDARD DRAWING

FILE NO. **XS1-120**

APPROVAL DATE July 2011

Deleted Detail (1) Changed Detail (3)

Added Detail (2) Added Note (4)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 54-0484
POST MILE 43.5

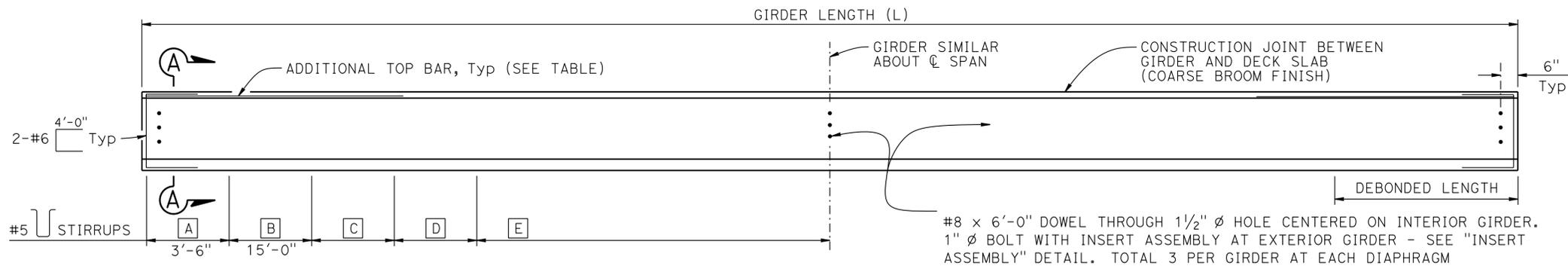
VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
PRECAST PRESTRESSED I GIRDER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	786	824

REGISTERED CIVIL ENGINEER
 DATE 11-07-13
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 CIVIL
 STATE OF CALIFORNIA

6-23-14
 PLANS APPROVAL DATE

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

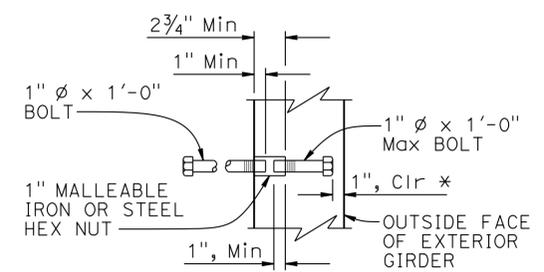


LOCATION	A	B	C	D	E
GIRDER	#5 @ 6"	#5 @ 6"	#5 @ 12"	#5 @ 12"	#5 @ 12"

GIRDER ELEVATION

NOTE:
Girder ends to be cast such that a level surface is provided at bearing pads

#8 x 6'-0" DOWEL THROUGH 1 1/2" Ø HOLE CENTERED ON INTERIOR GIRDER. 1" Ø BOLT WITH INSERT ASSEMBLY AT EXTERIOR GIRDER - SEE "INSERT ASSEMBLY" DETAIL. TOTAL 3 PER GIRDER AT EACH DIAPHRAGM



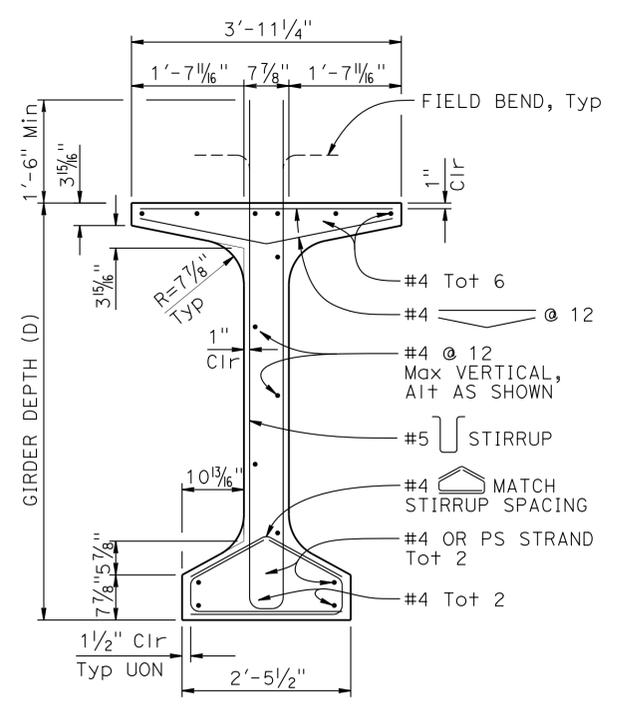
* DIMENSION MAY BE INCREASED WHEN INSERT ASSEMBLY IS USED AT END BLOCK

INSERT ASSEMBLY

PRESTRESSING NOTES

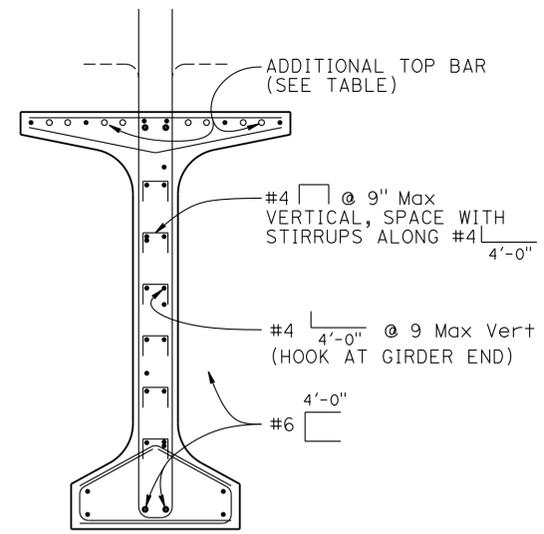
- The Jacking Force (P) is the jacking force required at the point of control along the span. The jacking force does not include any fabrication specific losses
- The maximum temporary tensile stress (jacking stress) in the prestressing steel shall not exceed 80% of the specified minimum ultimate tensile strength of the prestressing steel
- Concrete strength:
f'ci is at time of initial stressing
f'c is at 28 days
- Deflection components are informational and will be used to set screed line elevations
- Screed line elevations for deck concrete will be determined by the Engineer
- Prestressing strand shall be 270 ksi low relaxation

LOCATION	GIRDER LENGTH (L)	GIRDER DEPTH (D)	NUMBER OF 0.6" Ø STRANDS	JACKING FORCE (P)	CONCRETE STRENGTH (ksi)		MIDSPAN DEAD LOAD DEFLECTION (In)		ADDITIONAL TOP BAR (EACH END)
					f'ci	f'c	DECK	RAIL	
SPAN 4 (8 EA)	105'-0"	4'-7 1/8"	42	1760 kips (42 kips/STRAND)	5.7	6.0	1 1/2	3/32	#8 x 20', Tot 4



TYPICAL GIRDER SECTION

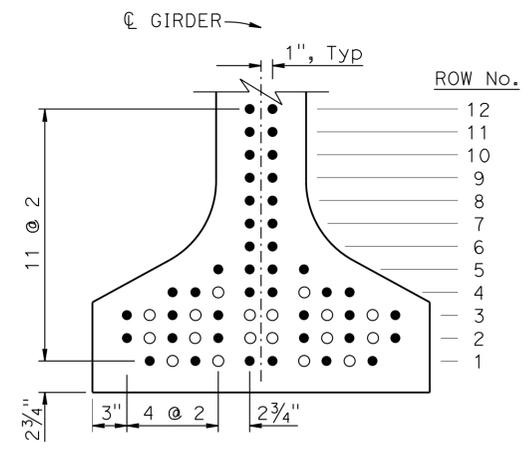
NOTE: For "WELDED WIRE REINFORCEMENT (WWR) ALTERNATIVE", see "PC/PS BULB-TEE GIRDER (MISCELLANEOUS DETAILS)" sheet



SECTION A-A

NOTE:
For details not shown, see "TYPICAL GIRDER SECTION" detail

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



LEGEND:
● DENOTES CONTINUOUSLY BONDED STRAND LOCATION
○ DENOTES PERMISSIBLE DEBONDED STRAND LOCATION

STRAND TEMPLATE & DEBONDING PATTERN

- NOTES:
- Strands shall be placed as low as possible in the strand template and symmetrical about CL Girder
 - No more than 33% of the total number of strands and 50% of the strands per horizontal row may be debonded
 - Strand locations may be adjusted as approved by the Engineer

GIRDER A, B, C, (Etc)			
ROW No.	TOTAL No. OF STRANDS	No. OF DEBONDED STRANDS	DEBONDED LENGTH
12	0		
11	0		
10	0		
9	0		
8	0		
7	0		
6	0		
5	2		
4	6		
3	12	2	40'-0"
2	12	2	30'-0"
1	10	4	20'-0"

NO SCALE

STANDARD DRAWING

FILE NO. **xs1-121-1**

APPROVAL DATE July 2011

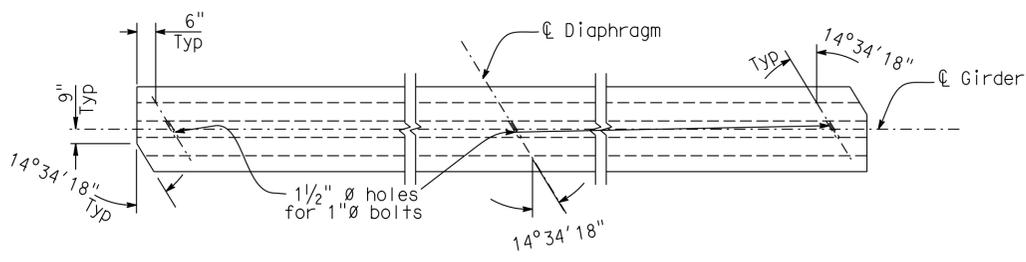
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

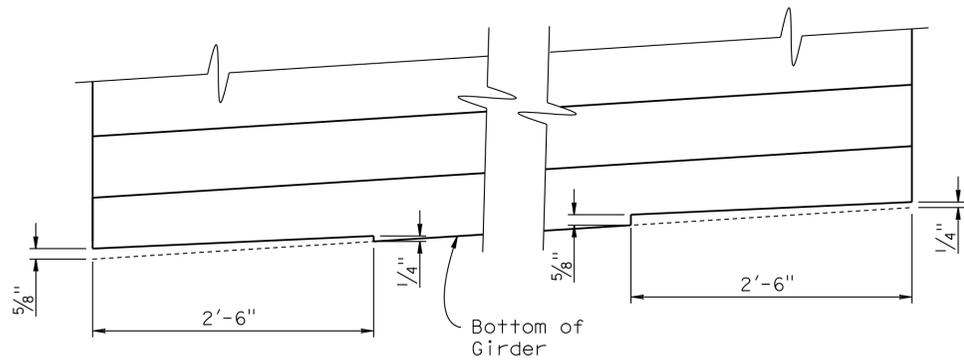
BRIDGE NO. 54-0484
POST MILE 43.5

VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
PC/PS BULB-TEE GIRDER (DEBONDED STRANDS)

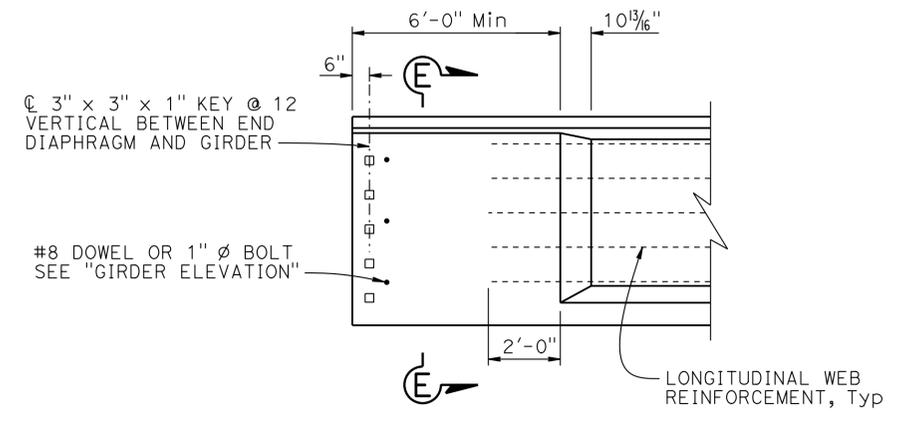
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	787	824
 REGISTERED CIVIL ENGINEER			11-07-13 DATE		
6-23-14 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



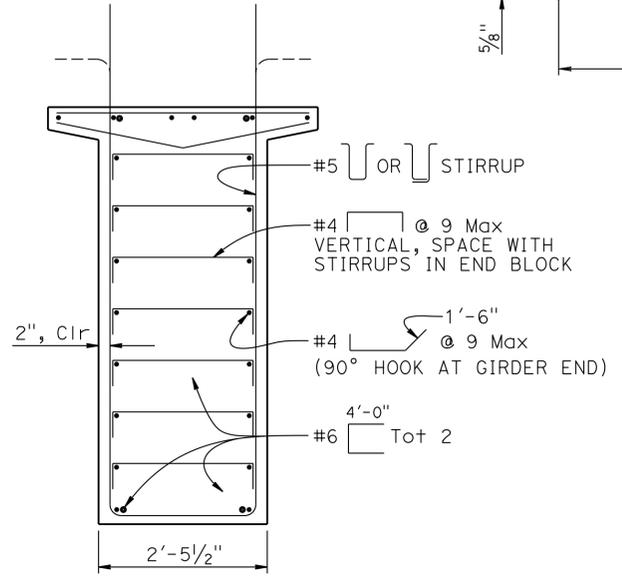
END GIRDER - ANGLE DETAIL
No Scale



END GIRDER NOTCH DETAIL
No Scale



OPTIONAL END BLOCK - ELEVATION

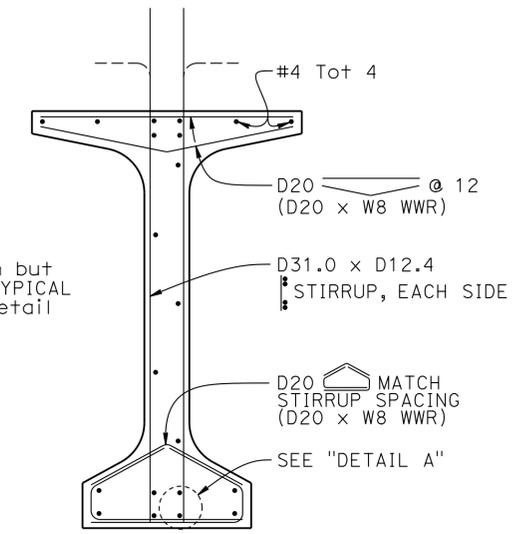


NOTE:
For details not shown, see "TYPICAL GIRDER SECTION" detail

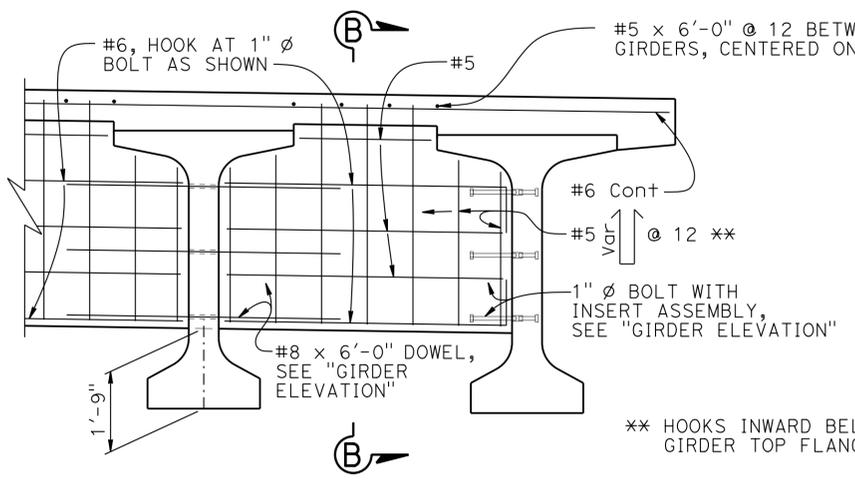
SECTION E-E

NOTE:
For "GIRDER ELEVATION" and "TYPICAL GIRDER SECTION", see "PC/PS BULB-TEE GIRDER (DEBONDED STRANDS)" sheet

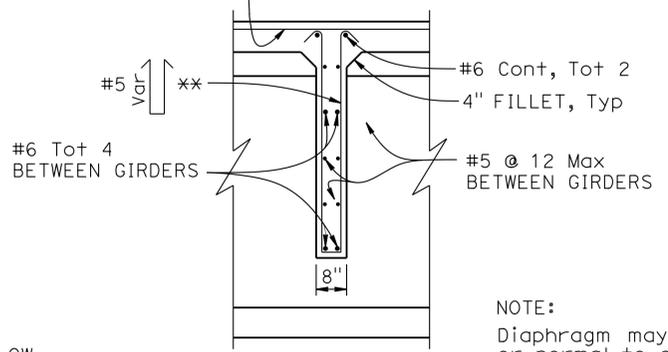
NOTES:
1. For details shown but not noted, see "TYPICAL GIRDER SECTION" detail
2. W8 WWR not shown



WELDED WIRE REINFORCEMENT (WWR) ALTERNATIVE

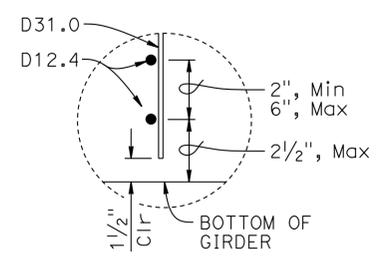


INTERMEDIATE DIAPHRAGM



SECTION B-B

NOTE:
Diaphragm may be vertical or normal to deck grade



DETAIL A

NOTES:
1. Bottom of stirrup WWR detail shown, top similar
2. Longitudinal wire area shall be 40% or greater of vertical deformed wire's area

NO SCALE

STANDARD DRAWING		 Added Detail
FILE NO. xs1-121-2	APPROVAL DATE July 2011	

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	
---	--

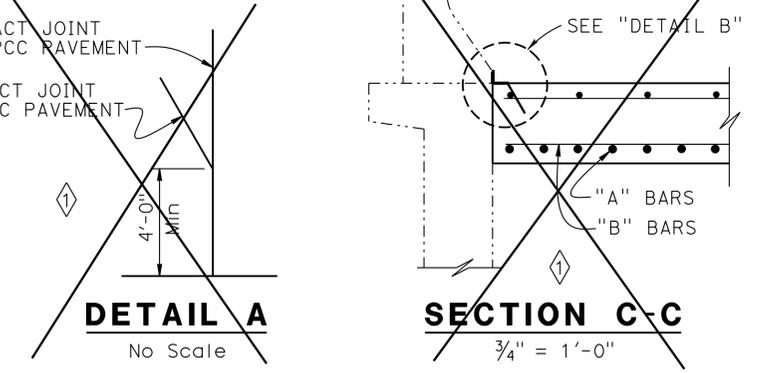
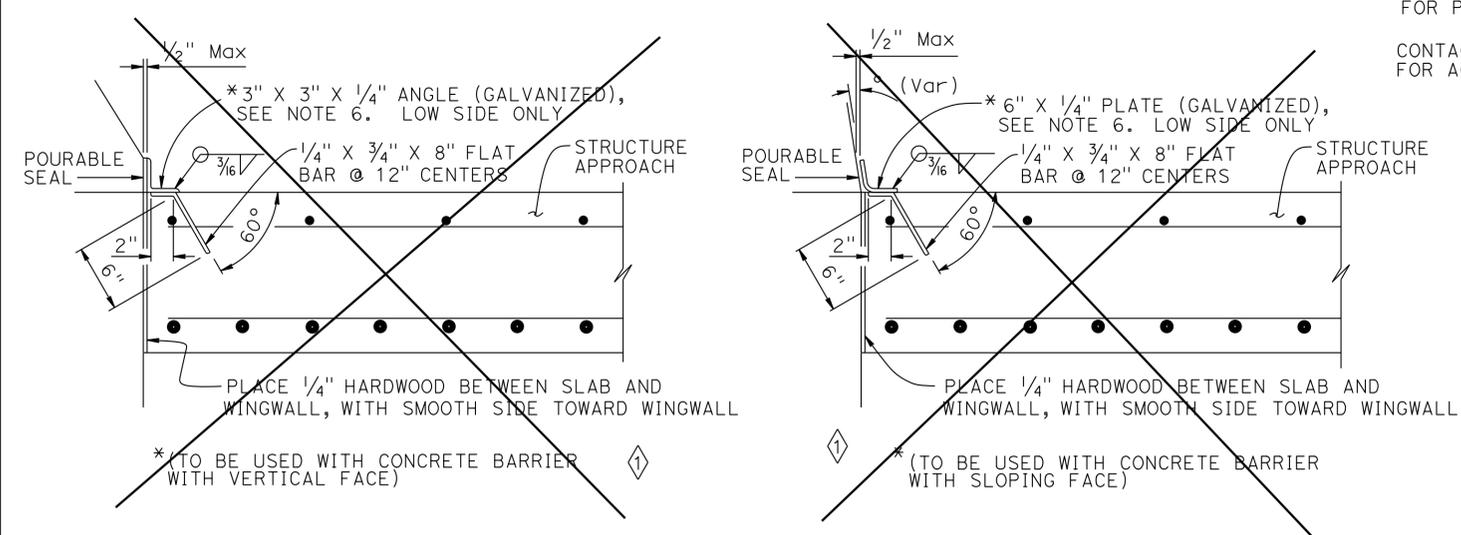
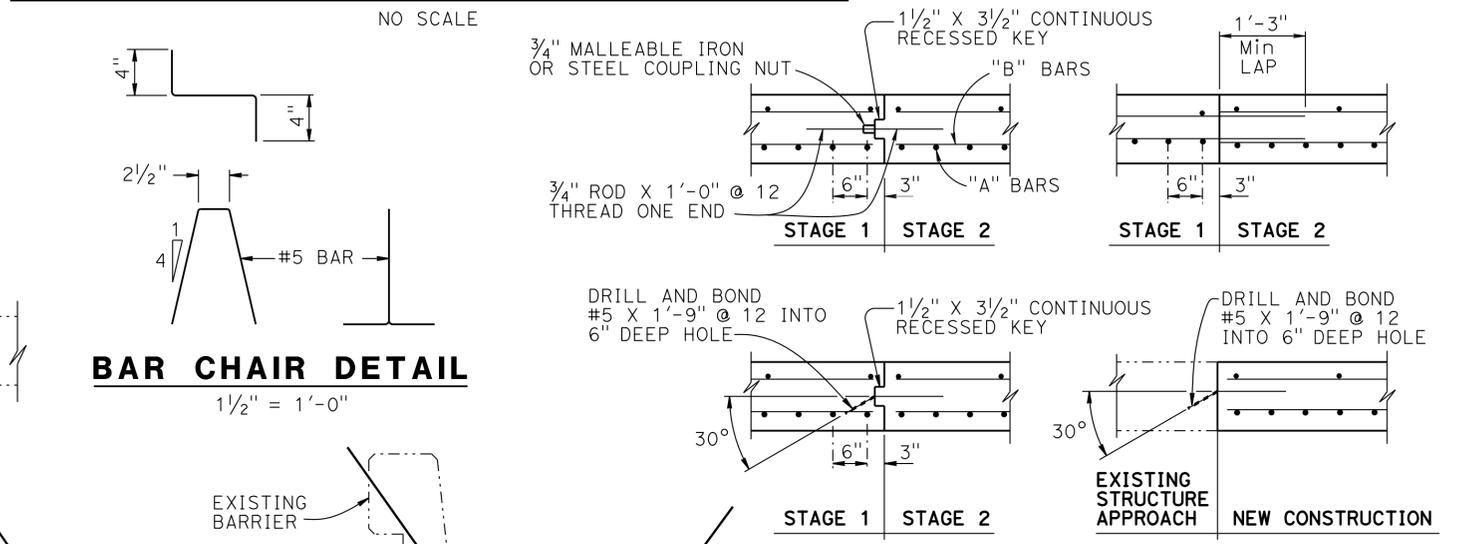
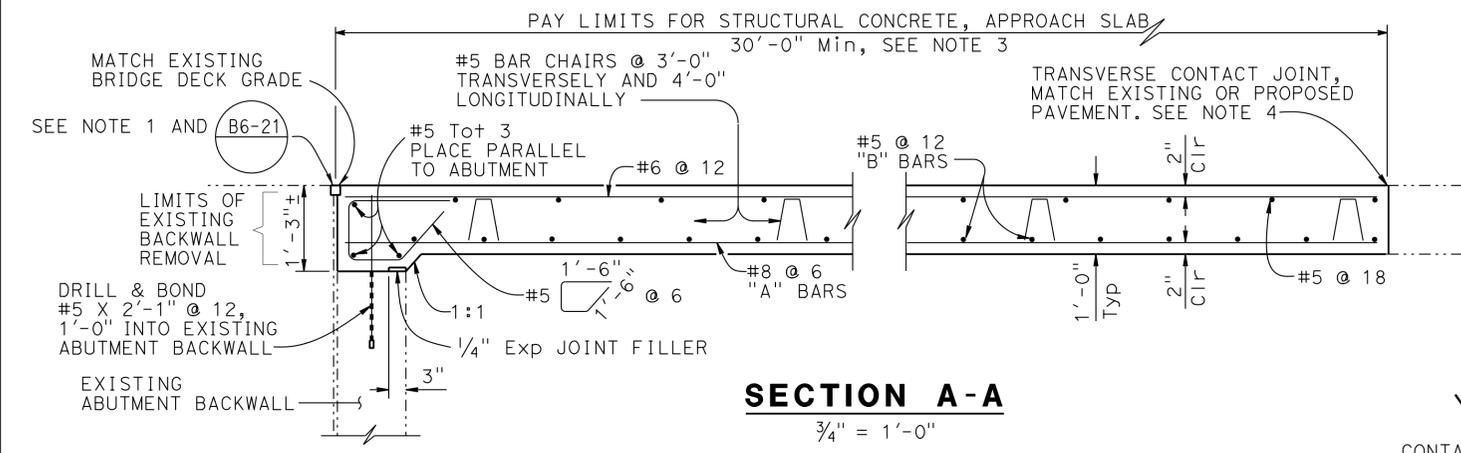
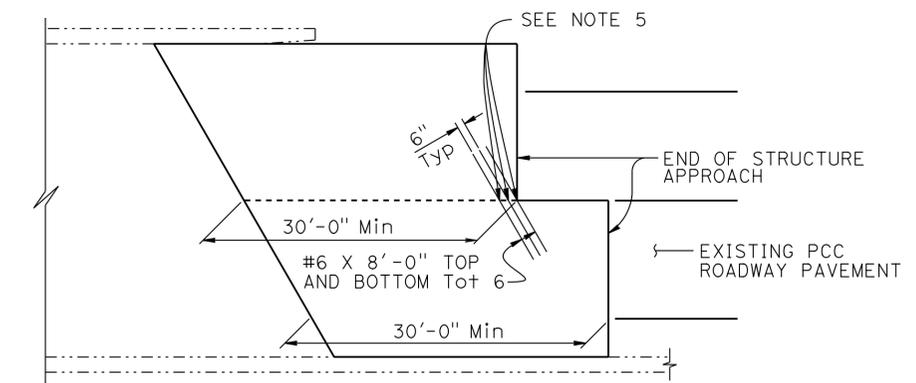
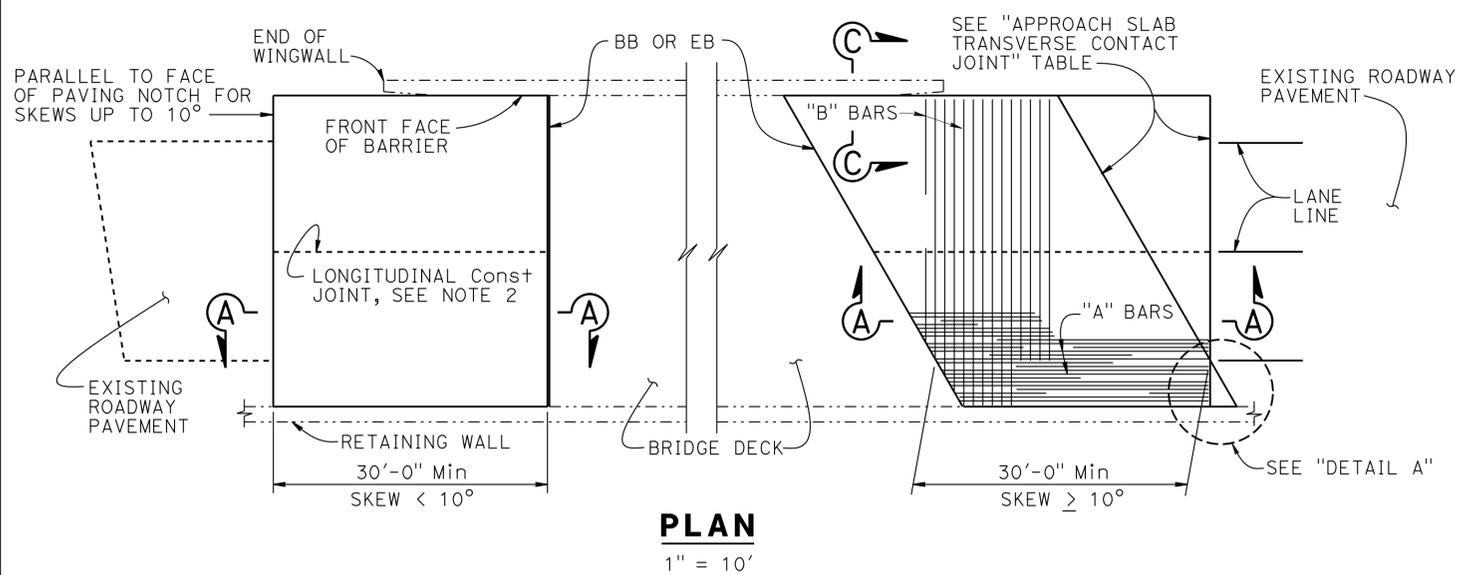
DIVISION OF ENGINEERING SERVICES	
BRIDGE NO. 54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) PC/PS BULB-TEE GIRDER (MISCELLANEOUS DETAILS)
POST MILE 43.5	

BRIDGE NO. 54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) PC/PS BULB-TEE GIRDER (MISCELLANEOUS DETAILS)
POST MILE 43.5	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	788	824

11-07-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 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.



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 PN
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:
- Sealed joint, for MR see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
 - Longitudinal construction joints, when permitted by 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

SPECIAL DETAILS

REVISED STANDARD DRAWING

FILE NO. **xs3-130**

APPROVAL DATE July 2011

Does Not Apply

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

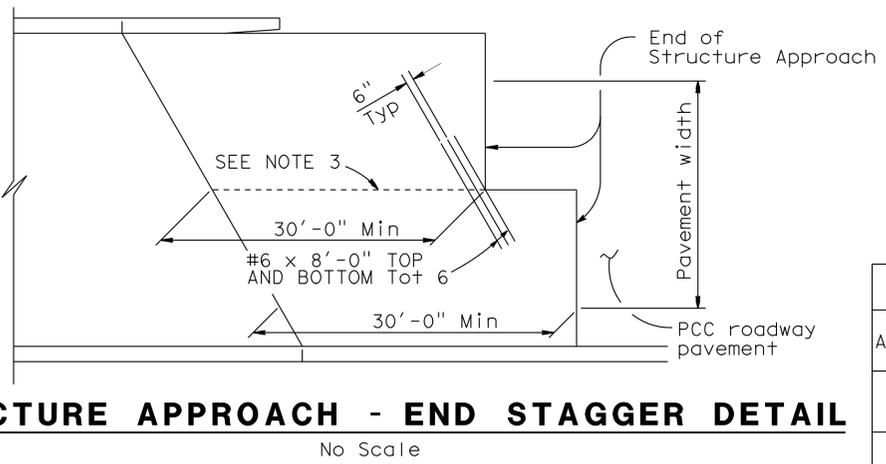
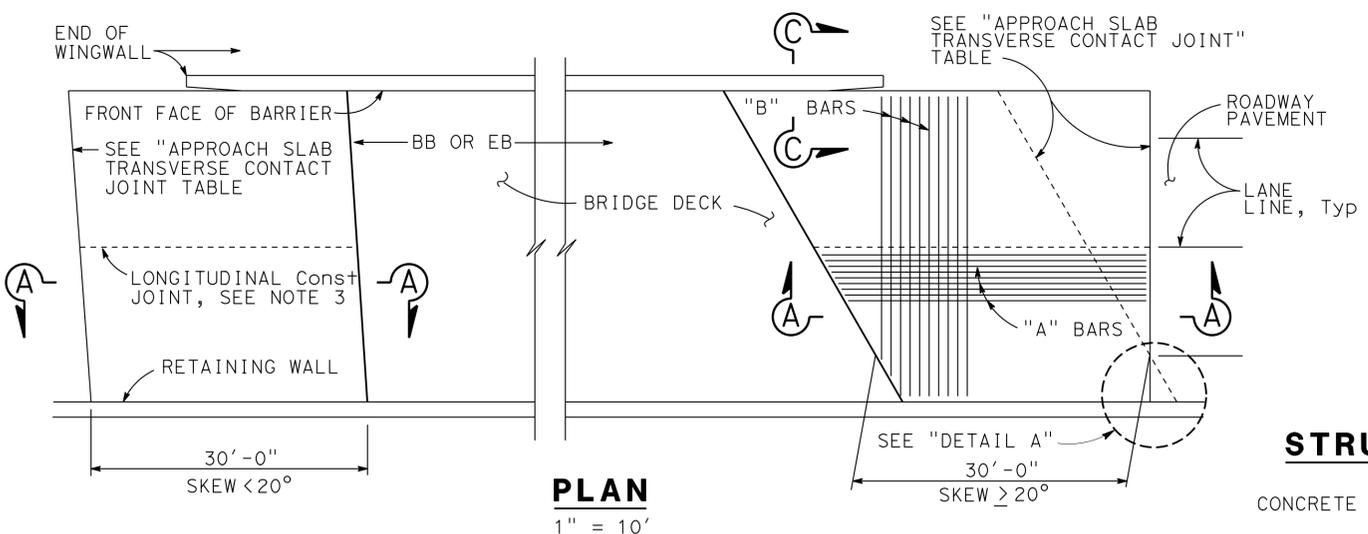
BRIDGE NO. 54-0484
POST MILE 43.5

VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
STRUCTURE APPROACH TYPE R(30S)

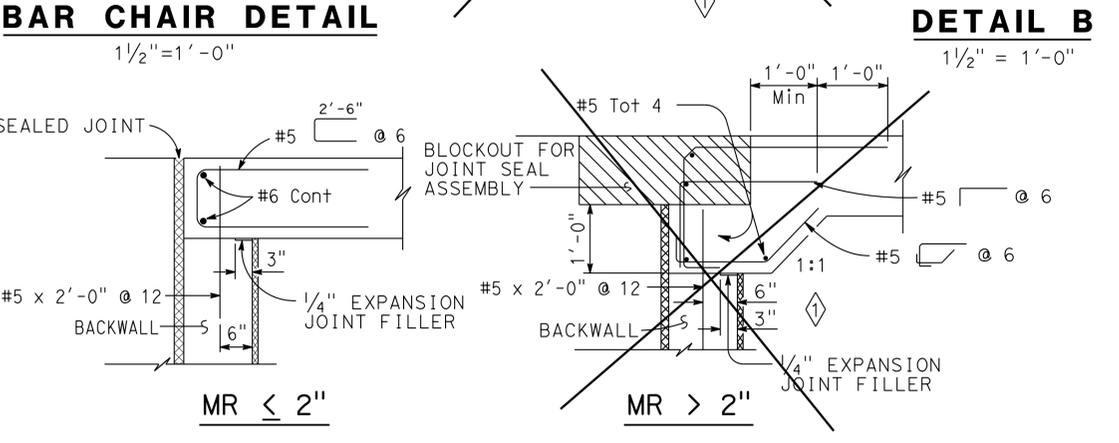
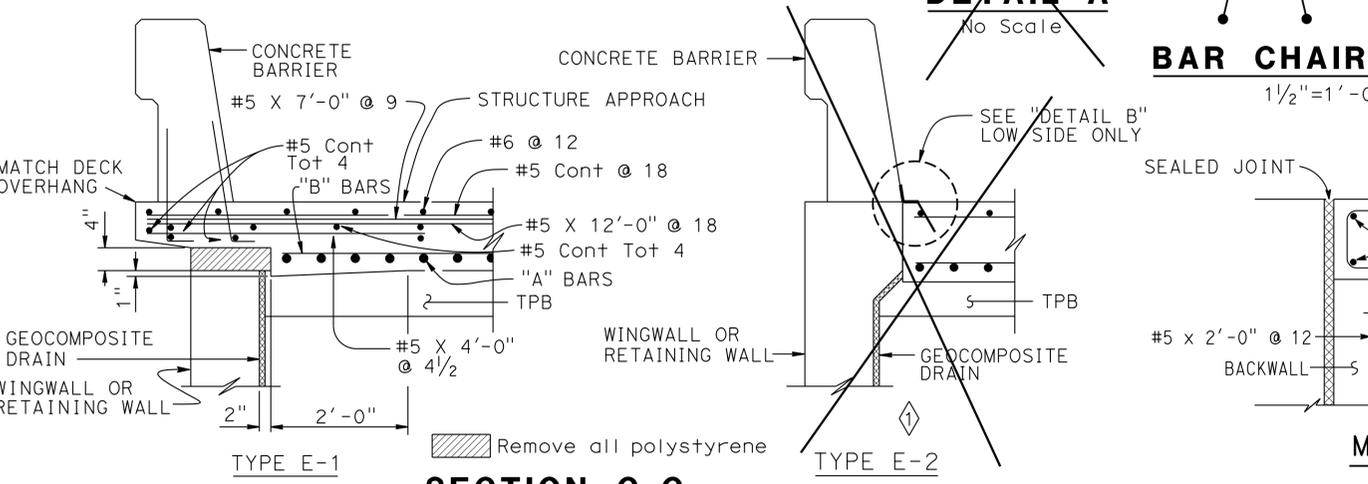
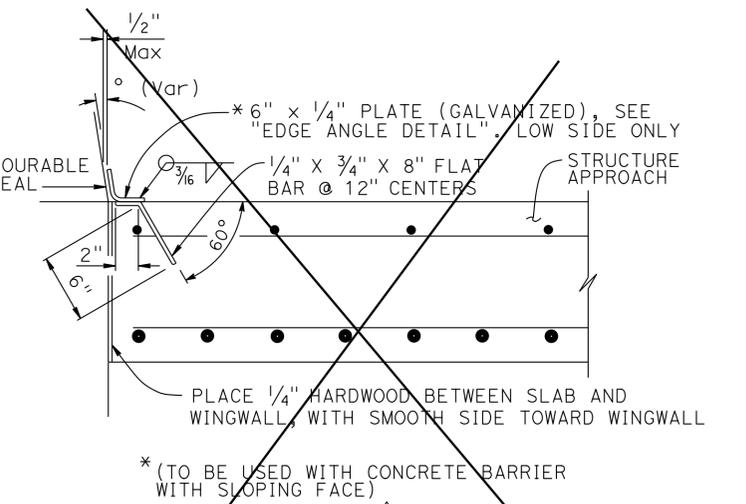
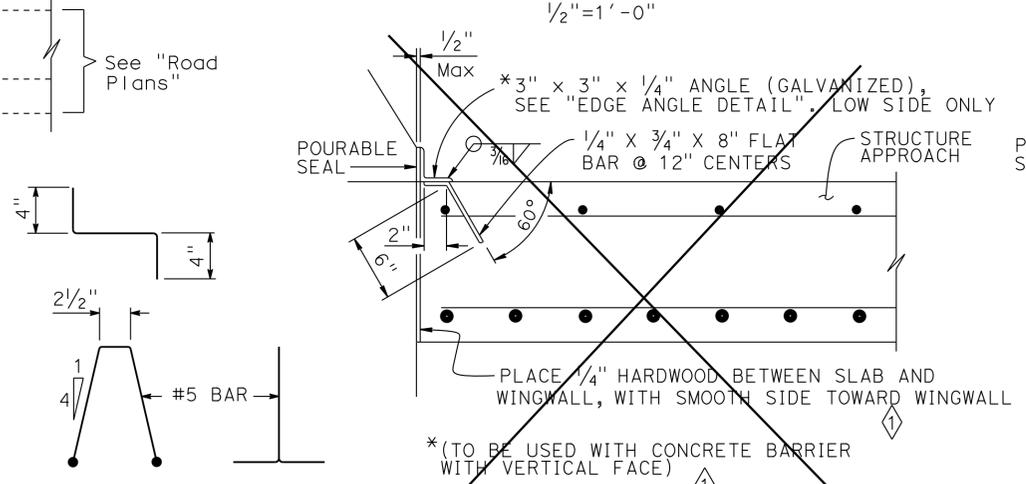
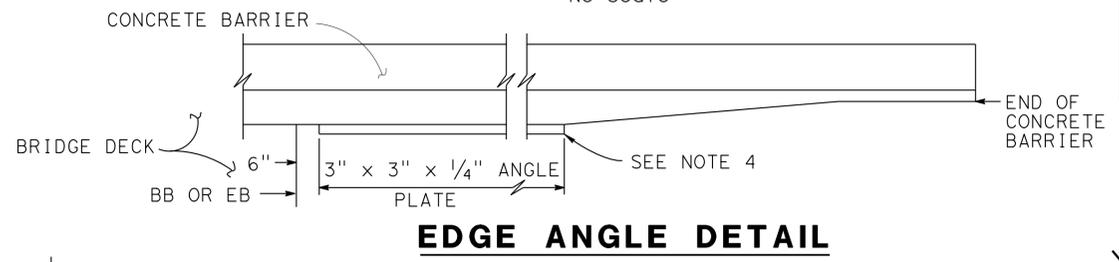
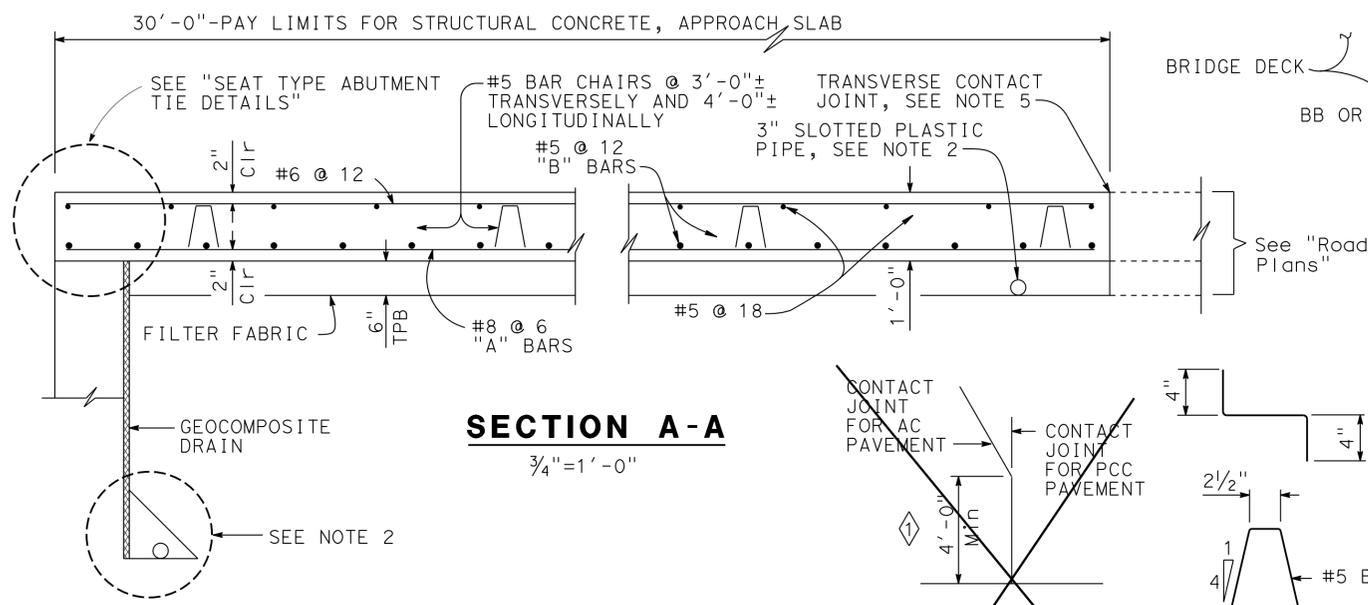
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	789	824

11-07-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 CIVIL
 STATE OF CALIFORNIA



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 roadway.

REVISED STANDARD DRAWING

FILE NO. **xs3-120**

APPROVAL DATE July 2011

Does Not Apply

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 54-0484
 POST MILE 43.5

VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
 STRUCTURE APPROACH TYPE N(30S)

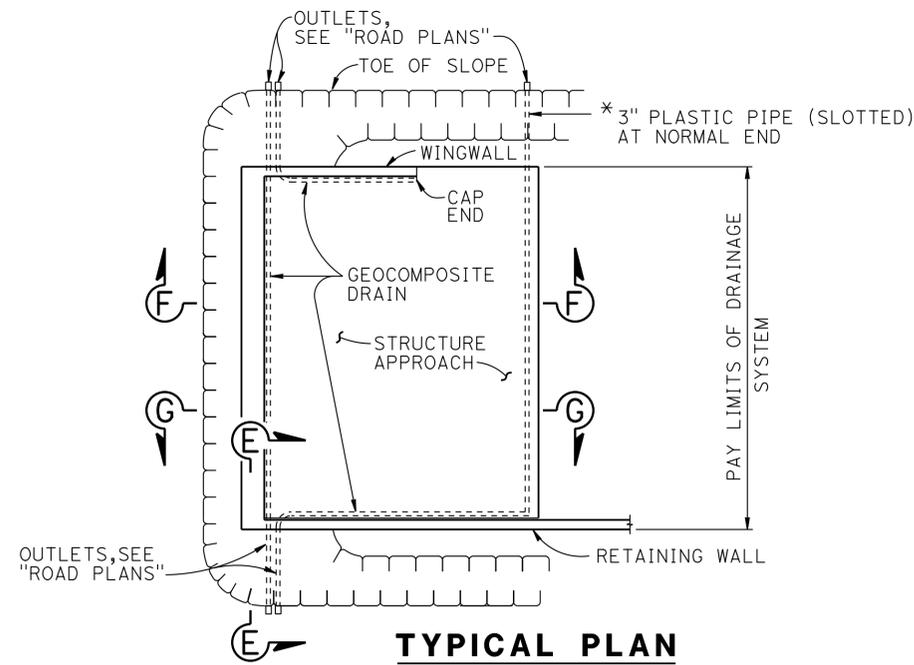
UNIT: 3589
 PROJECT NUMBER & PHASE: 08140000861
 CONTRACT NO.: 08-3555V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
12-21-12	24	41

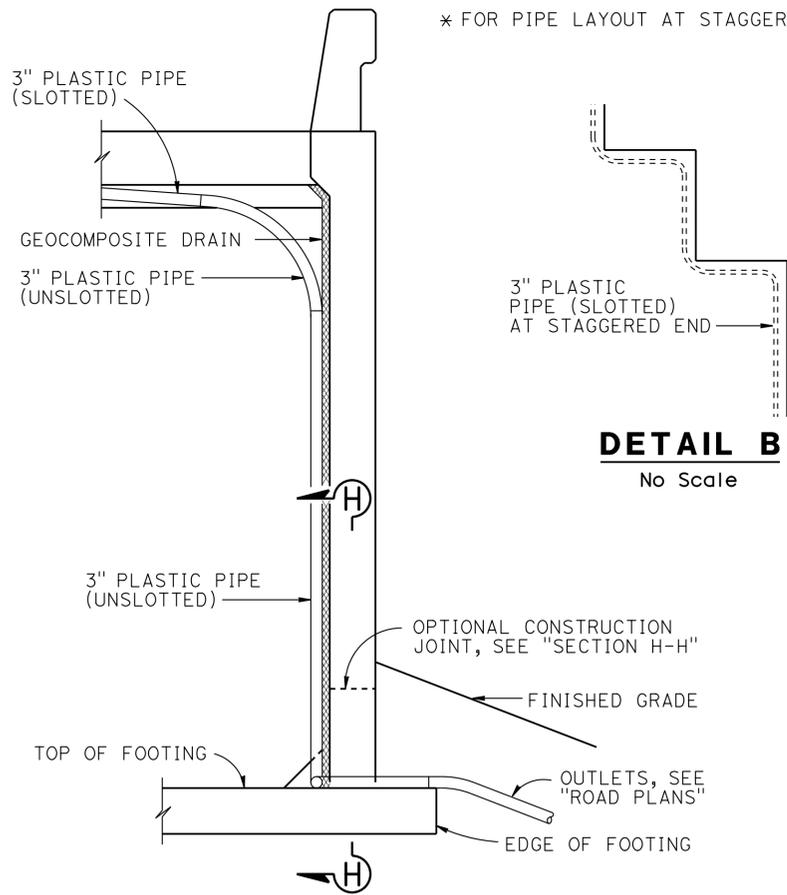
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	790	824
REGISTERED CIVIL ENGINEER			DATE	11-07-13	
PLANS APPROVAL DATE			6-23-14		
No. C65738			Exp. 9/30/15		
CIVIL			STATE OF CALIFORNIA		

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.



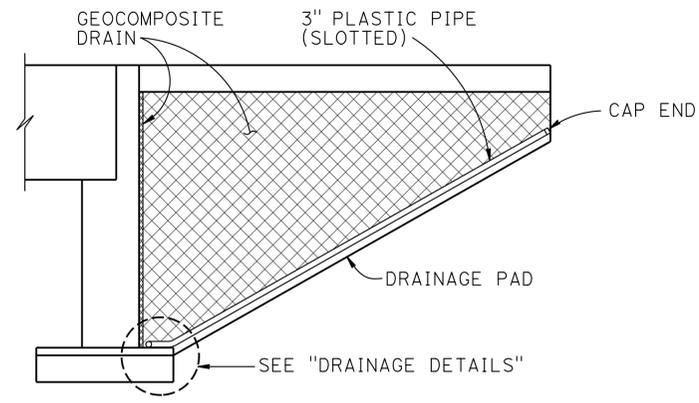
TYPICAL PLAN
1" = 10'

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



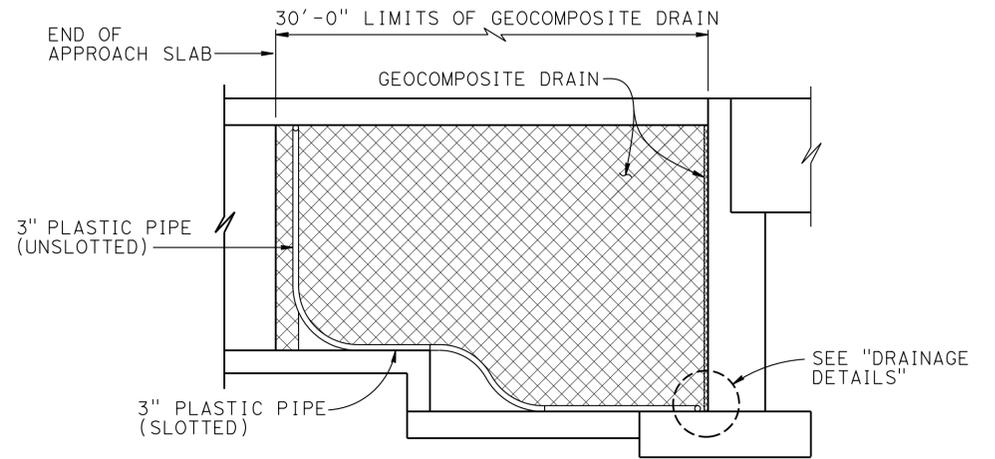
SECTION E-E
1/2" = 1'-0"

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



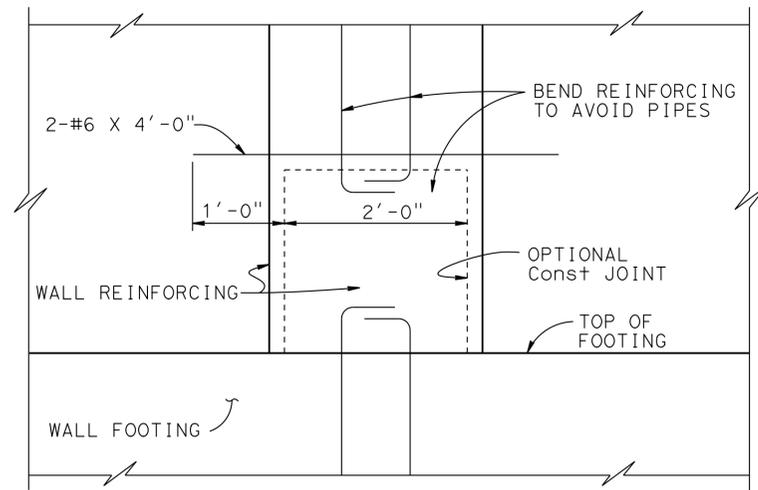
CANTILEVER WINGWALL

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

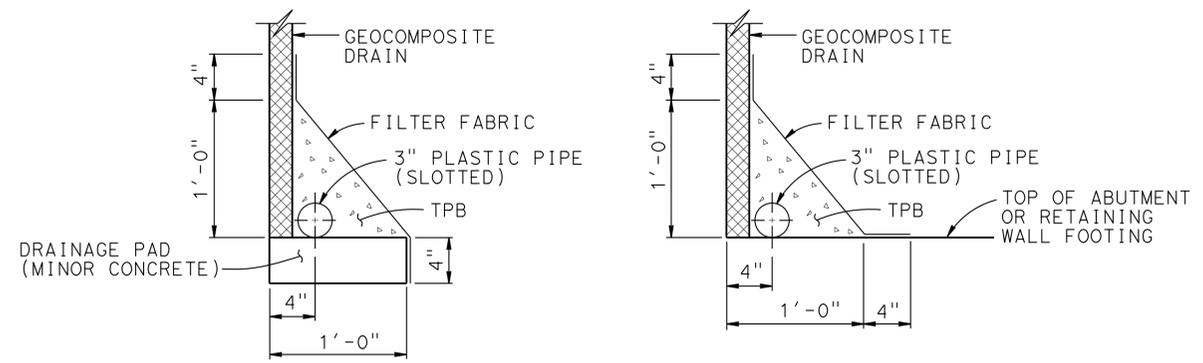


RETAINING WALL WINGWALL DRAINAGE DETAILS

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



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



WITHOUT FOOTING

WITH FOOTING

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

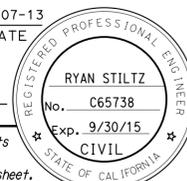
STANDARD DRAWING	
FILE NO. xs3-110	APPROVAL DATE July 2011

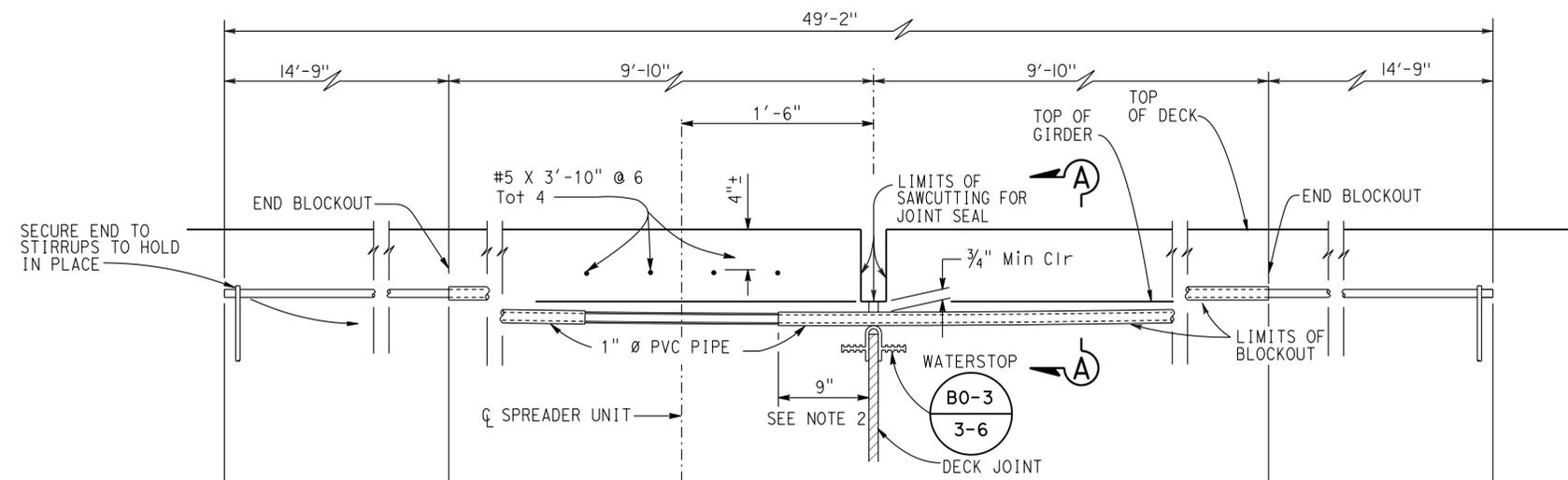
STATE OF CALIFORNIA	
DEPARTMENT OF TRANSPORTATION	

DIVISION OF ENGINEERING SERVICES	
BRIDGE NO. 54-0484	POST MILE 43.5

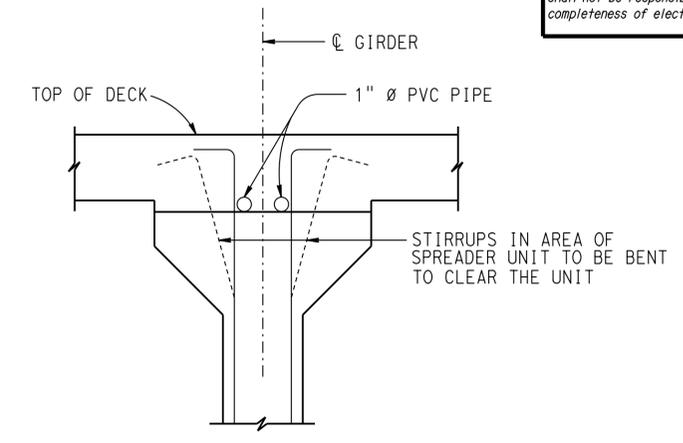
VICTORVILLE SEPARATION & OVERHEAD (WIDEN)	
STRUCTURE APPROACH DRAINAGE DETAILS	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	791	824

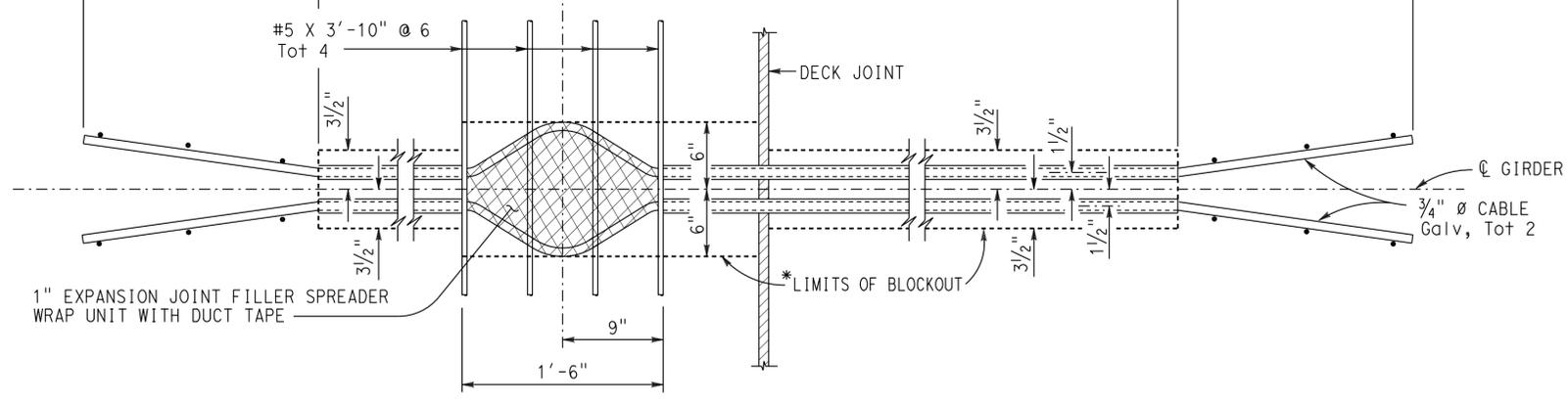

 REGISTERED CIVIL ENGINEER DATE 11-07-13
 PLANS APPROVAL DATE 6-23-14
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



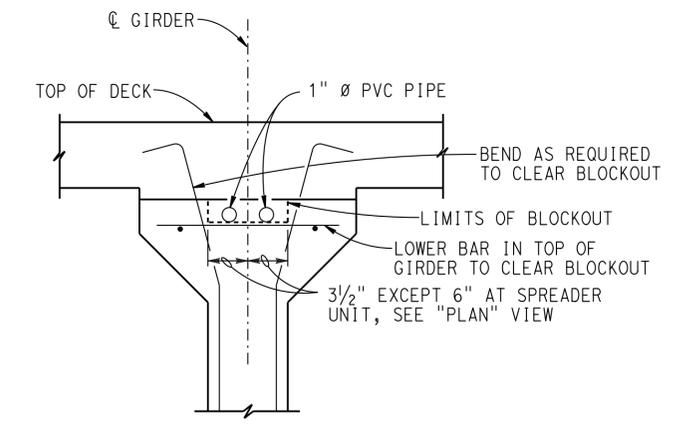
ELEVATION
(BLOCKOUT CONDITION SHOWN)



SECTION A-A
(WITHOUT BLOCKOUT)



PLAN
(BLOCKOUT CONDITION SHOWN)



SECTION A-A
(WITH BLOCKOUT)

- NOTES:
1. Seal ends of PVC pipe
 2. Grease outer surface of PVC
- * Blockout required if placing restrainer units on top of precast girder interferes with sawcutting for joint seal

NO SCALE

STANDARD DRAWING	
FILE NO. xs7-060	APPROVAL DATE July 2011

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	
---	--

DIVISION OF ENGINEERING SERVICES	
BRIDGE NO. 54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) CABLE RESTRAINER TYPE 5
POST MILE 43.5	

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

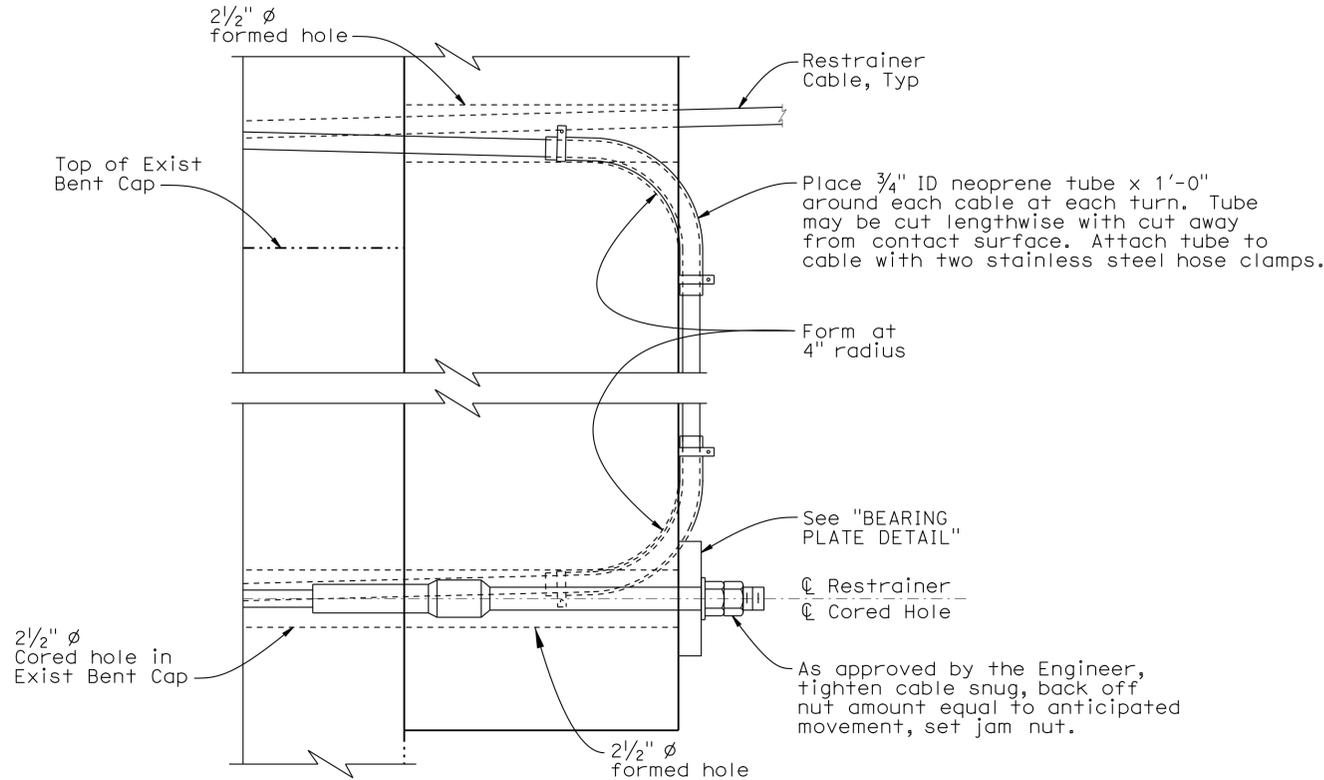
UNIT: 3589
PROJECT NUMBER & PHASE: 08140000861
CONTRACT NO.: 08-3555V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 26 OF 41
---	----------------	----------------

USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:59

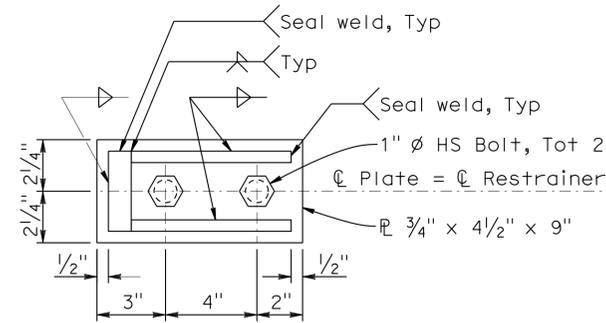
NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS
BEFORE ORDERING OR FABRICATING
ANY MATERIAL.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	792	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		
<i>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.</i>					

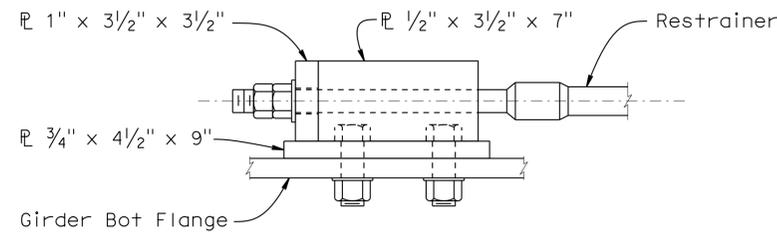


DETAIL A

3" = 1'-0"



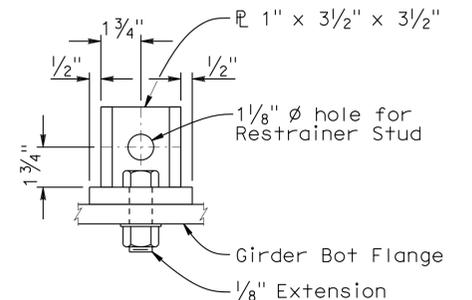
PLAN



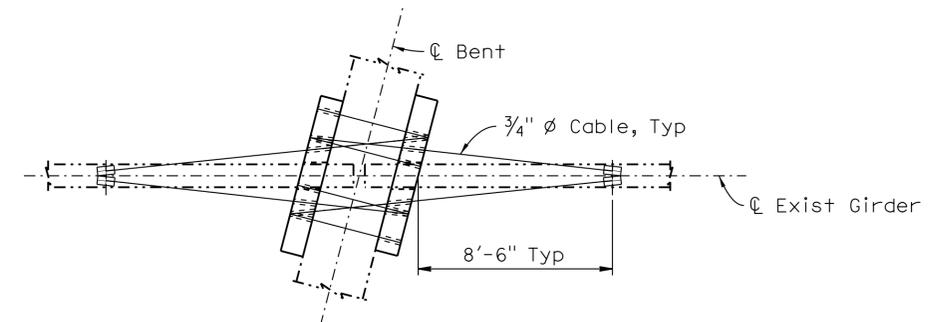
ELEVATION

BRACKET DETAIL

3" = 1'-0"

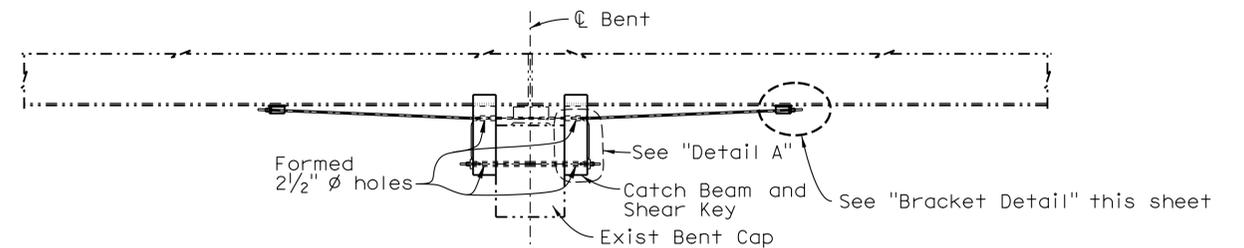


END VIEW



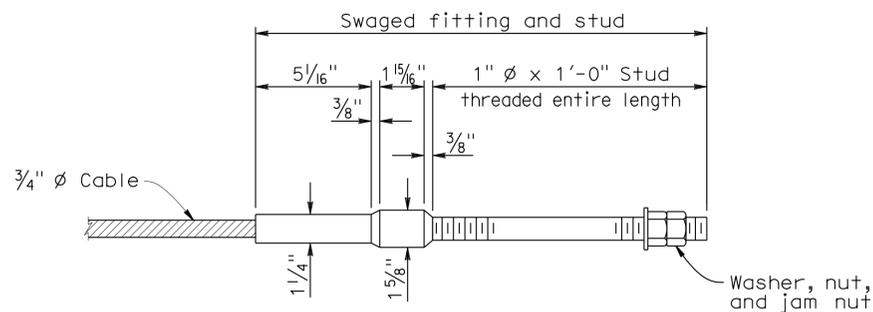
PART PLAN - CABLES

1/4" = 1'-0"



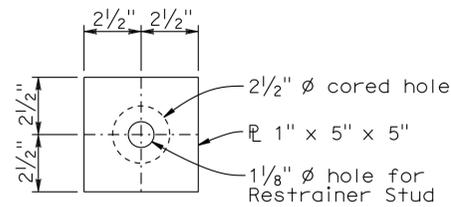
ELEVATION - CABLES

1/4" = 1'-0"



CABLE END ANCHORAGE

3" = 1'-0"



BEARING PLATE DETAIL

3" = 1'-0"

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

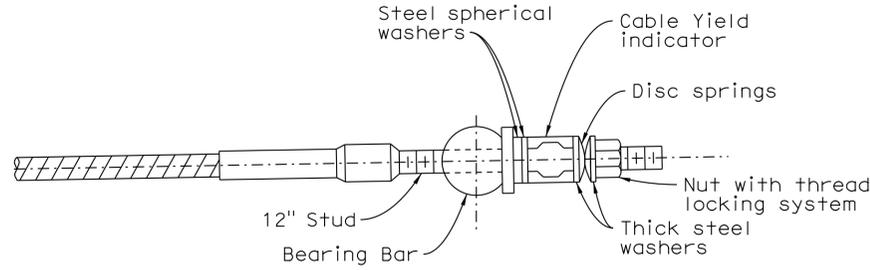
DESIGN	BY R. Stiltz	CHECKED J. Szabo
DETAILS	BY G. Hallstrom	CHECKED J. Szabo
QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

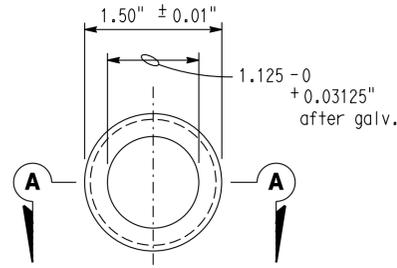
BRIDGE NO. 54-0484
POST MILE 43.5
VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
RETROFIT CABLE RESTRAINER DETAILS NO. 1

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

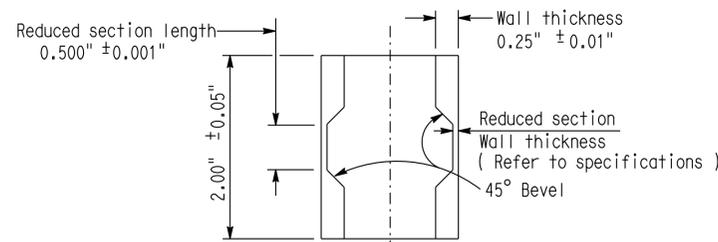


**CABLE ANCHORAGE DETAILS
(ADJUSTMENT END)**

3"=1'-0"



END VIEW



SECTION A-A

"All dimensions are before galvanizing except as noted"

CABLE YIELD INDICATOR

**TABLE B
DISC SPRINGS AND WASHERS**

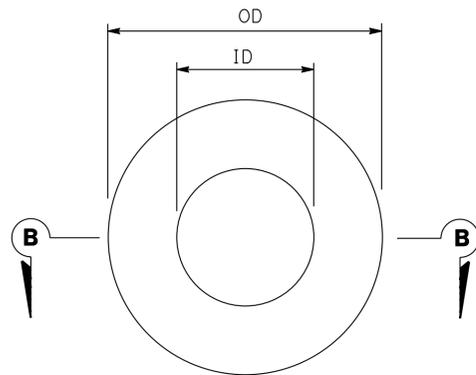
"All dimensions in inches, except as noted"

L*	DISC SPRING					STEEL SPHERICAL WASHER			THICK WASHER		
	ID	OD	t	H	COLOR CODE	ID	OD	Nom thick.	ID	OD	t**
00.0 - 25.0	1.00	2.00	0.065	0.130	WHITE	1.19	2.25	0.50	1.03	2.00	0.25
25.1 - 31.9	1.00	2.00	0.084	0.136	RED	1.19	2.25	0.50	1.03	2.00	0.25
32.0 - 37.9	1.00	2.00	0.097	0.145	BLUE	1.19	2.25	0.50	1.03	2.00	0.25
38.0 - 45.0	1.25	2.50	0.120	0.180	YELLOW	1.31	2.50	0.50	1.16	2.00	0.25

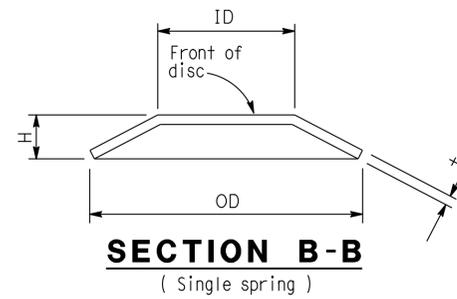
* For limits of length L (ft), use effective length of cable, from face-to-face outer surfaces of anchorage plate or bearing bar. Refer to Bridge detail sheets for approximate length required.

** Minimum value

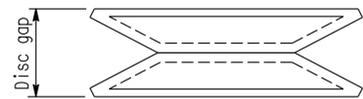
Note: All OD and ID dimensions for washers and disc springs shall meet the dimensional tolerances for harden steel washers, ASTM F436



PLAN



**SECTION B-B
(Single spring)**



AS INSTALLED ON STUD

DISC SPRING

Note: For dimensions not shown, see "Table B"

**TABLE A
RESTRAINER GAP**

LOCATION	TEMPERATURE RANGE (F)			
	BELOW 50°	50°-70°	70°-90°	ABOVE 90°
BENT 2/SPAN 1	1/4"	3/8"	5/8"	3/4"
BENT 2/SPAN 2	1/8"	1/8"	1/8"	1/8"
BENT 3/SPAN 2	1/4"	3/8"	5/8"	3/4"
BENT 3/SPAN 3	1/8"	1/8"	1/8"	1/8"
BENT 4/SPAN 3	1/4"	3/8"	5/8"	3/4"
BENT 4/SPAN 4	1/8"	1/8"	1/8"	1/8"
BENT 5/SPAN 4	3/8"	5/8"	3/4"	1"
BENT 5/SPAN 5	1/8"	1/8"	1/8"	1/8"
BENT 6/SPAN 5	1/4"	3/8"	5/8"	3/4"
BENT 6/SPAN 6	1/8"	1/8"	1/8"	1/8"

RESTRAINER UNIT INSTALLATION PROCEDURE

- For typical 'girder to opposite girder' or 'bent cap to girder' restrainers with one adjustment end:
Place nut, washer and Thread Locking System on fixed end stud prior to tightening the cable.
The adjustment end shall be at the same end of the cable for all restrainers at a specific hinge or bent.
Install Cable Yield Indicator, spherical washers, disc springs, washers and nut on the adjustment end of restrainers as shown in "Cable Anchorage Details". Discs shall be installed front to front as shown in "Disc Spring" detail.
Tighten the nuts on the cable from the Adjustment End of restrainer until the disc springs collapse and there is no disc gap remaining between the discs.
- Place thread locking system on adjustment end(s) after tightening the cable but before backing off the nut(s).
Back off the nut(s) at the adjustable anchorage(s) a distance equal to the restrainer gap dimension shown in "Table A".

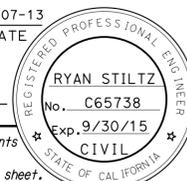
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	793	824

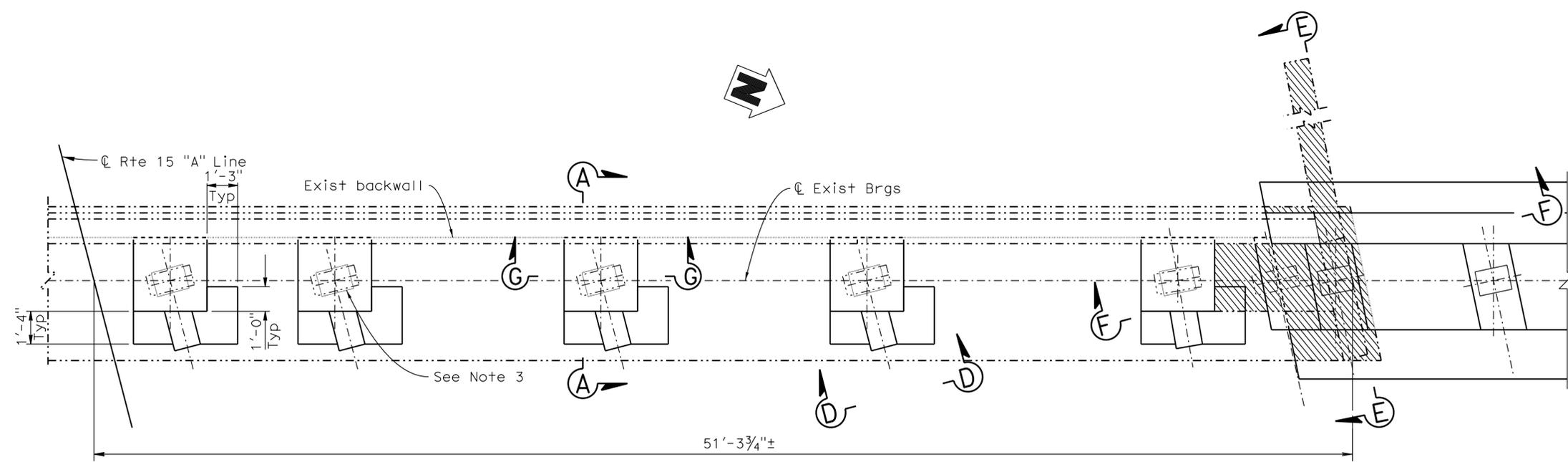
11-07-13
REGISTERED CIVIL ENGINEER DATE

6-23-14
PLANS APPROVAL DATE

RYAN STILTZ
No. C65738
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA

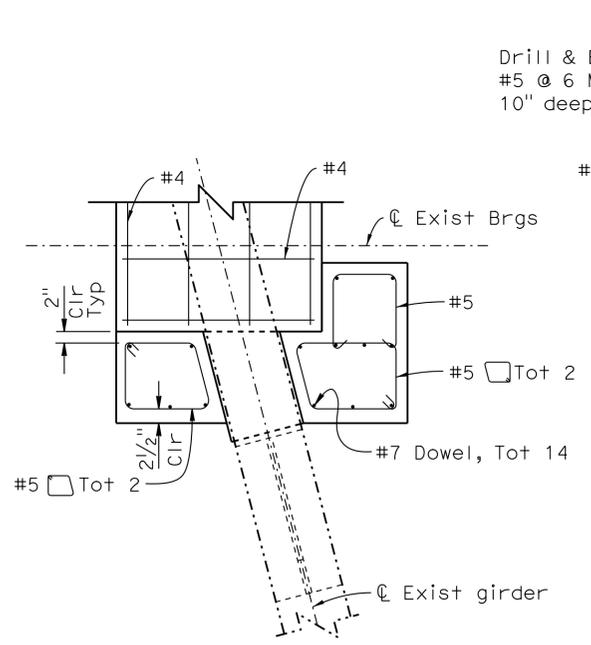
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	794	824
 REGISTERED CIVIL ENGINEER DATE 11-07-13					
6-23-14 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>					

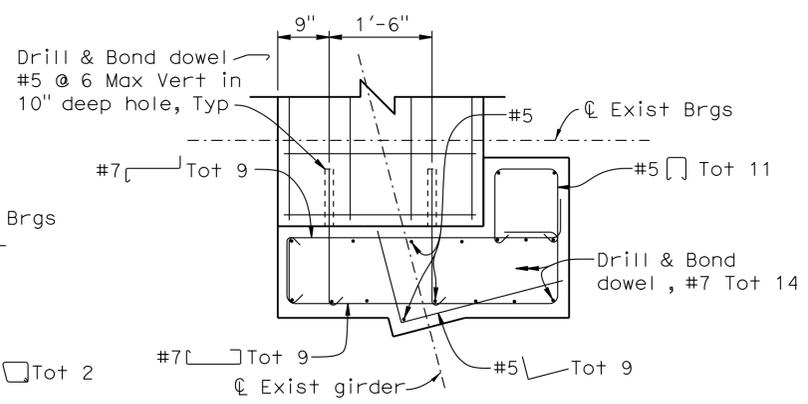


PARTIAL PLAN ABUTMENT 1LEFT
3/8"=1'-0"

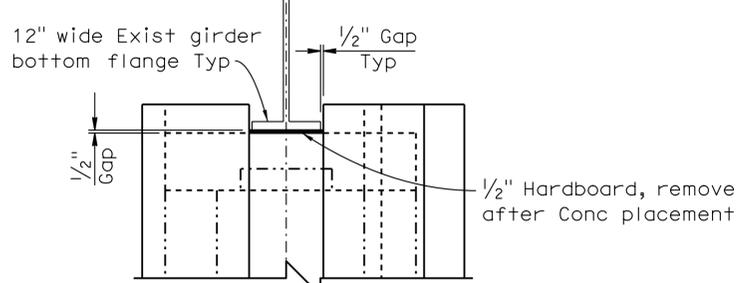
- LEGEND:**
 — Indicates new construction
 - - - Indicates existing structure
 ▨ Indicates bridge removal (portion)
- NOTES:**
- For "SECTION E-E", "SECTION F-F", and "SECTION G-G", see "MISCELLANEOUS DETAILS NO. 2" sheet.
 - Abutment 1 Left shown, Abutment 1 Right, Abut 7 Left and Abut 7 Right similar.
 - Bearing pads shall be 16" x 12" x 2" (elastomer only) steel reinforced elastomeric bearing pads Tot 5, for details see "ABUTMENT DETAILS NO. 1" sheet.



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

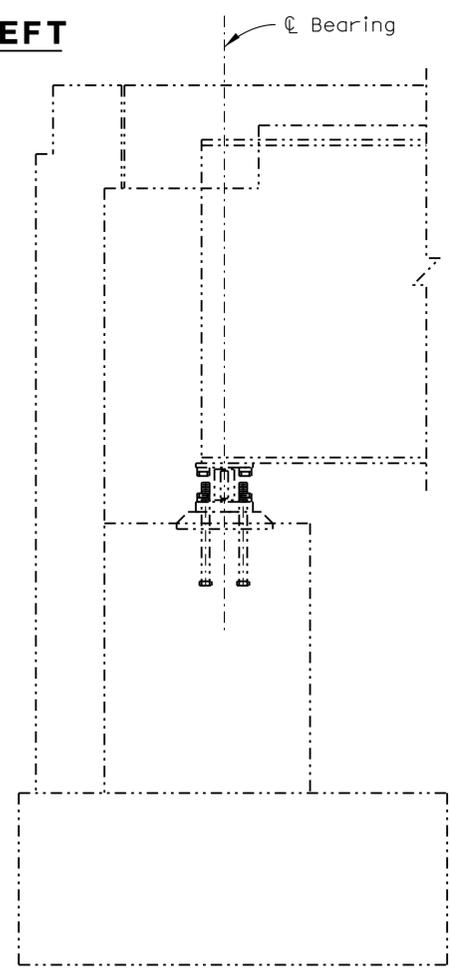


SECTION C-C
3/4"=1'-0"

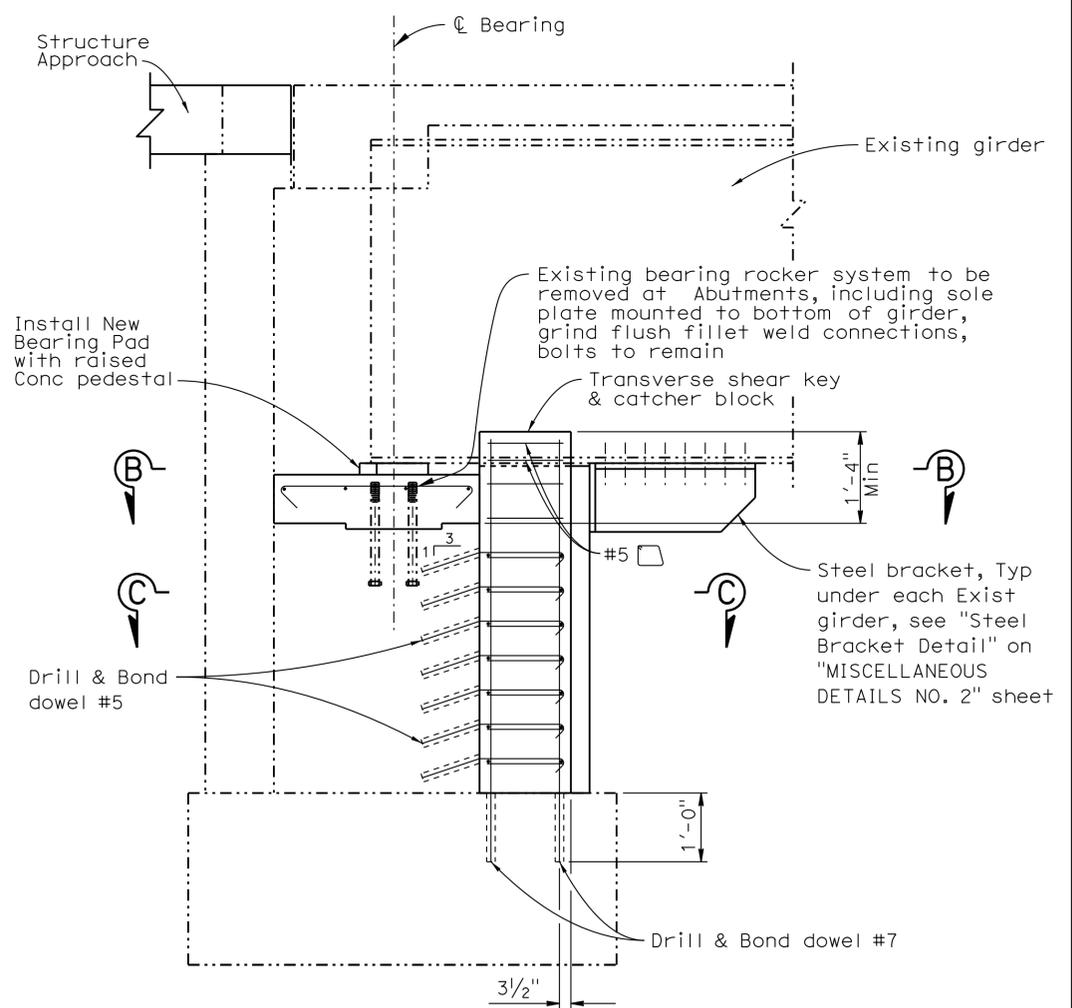


SECTION D-D
3/4"=1'-0"

NOTE: Steel bracket not shown.



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



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

DESIGN	BY R. Stiltz	CHECKED J. Szabo
DETAILS	BY G. Hallstrom	CHECKED J. Szabo
QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO. 54-0484
POST MILE 43.5
VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
MISCELLANEOUS DETAILS NO. 1

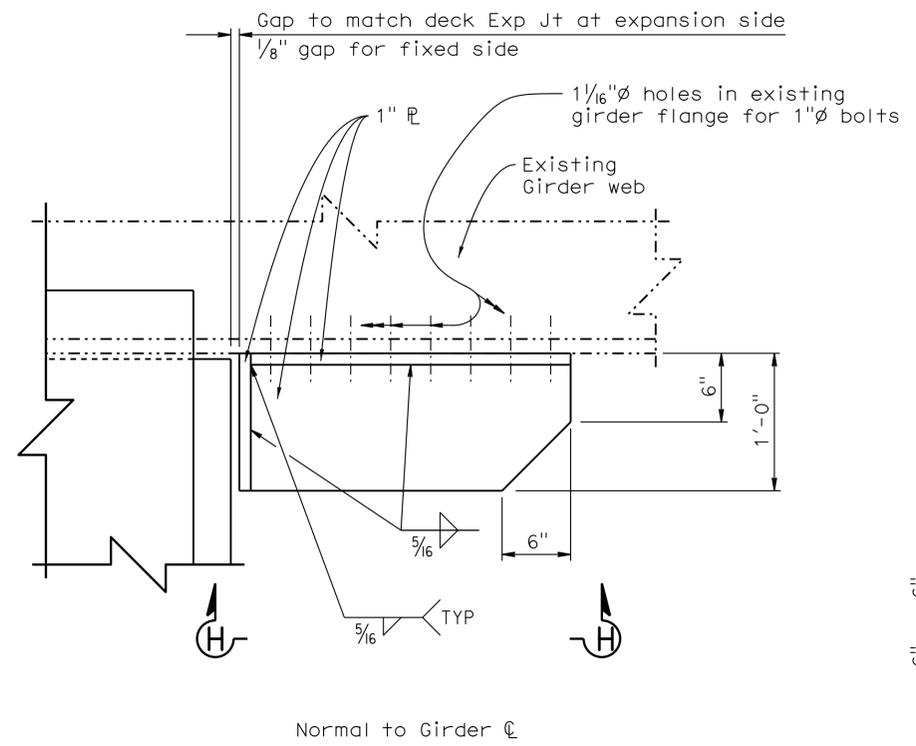
USERNAME => s121614 DATE PLOTTED => 30-JUN-2014 TIME PLOTTED => 09:08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	795	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA		

TEMPORARY SUPPORT TABLE

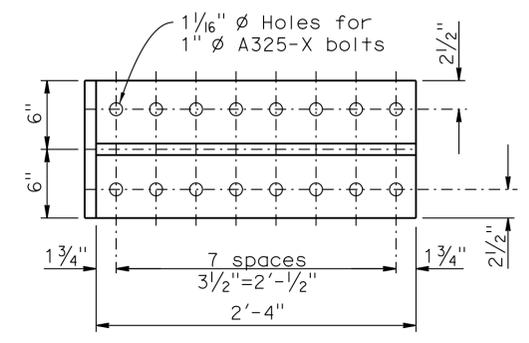
Location	DL+LL+I (KIP)	DL (KIP)	LATERAL LOAD (KIP)
Abut 1	70	35	8
Abut 7	65	30	8

- The jacking force shall be applied simultaneously to all jacks along the abutment to be jacked. Jacks shall be placed along girder \O at abutments no more than 5 feet from \O Abutment.
- The total vertical lift at the abutments shall be enough to release the existing bearings, but no greater than $\frac{1}{2}$ " above existing final grade.
- Lower super structure onto elastomeric bearing pads after concrete has attained 100% compressive strength.



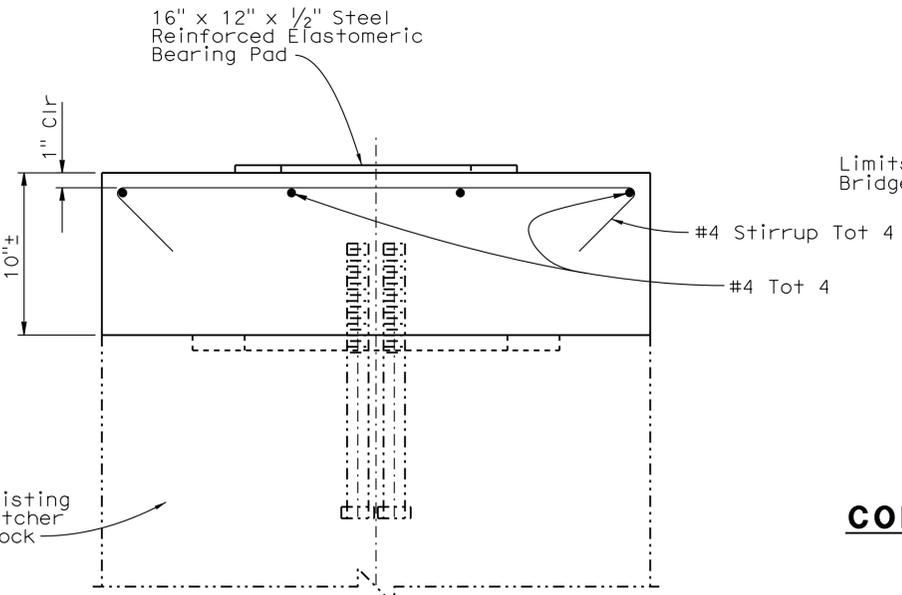
STEEL BRACKET DETAIL

NOTE:
Place bracket for each girder at Abutments.
Place 8 brackets per Bent, see "BENT RETROFIT DETAILS NO. 1" sheet for locations.



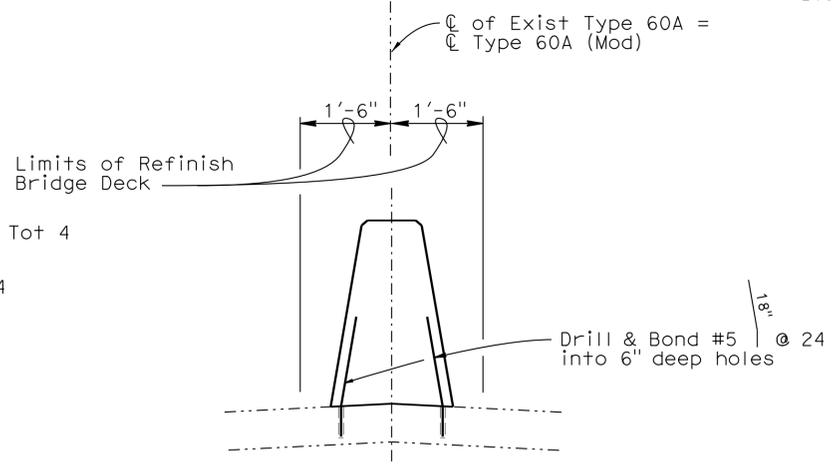
SECTION H-H

1 1/2" = 1'-0"



SECTION G-G

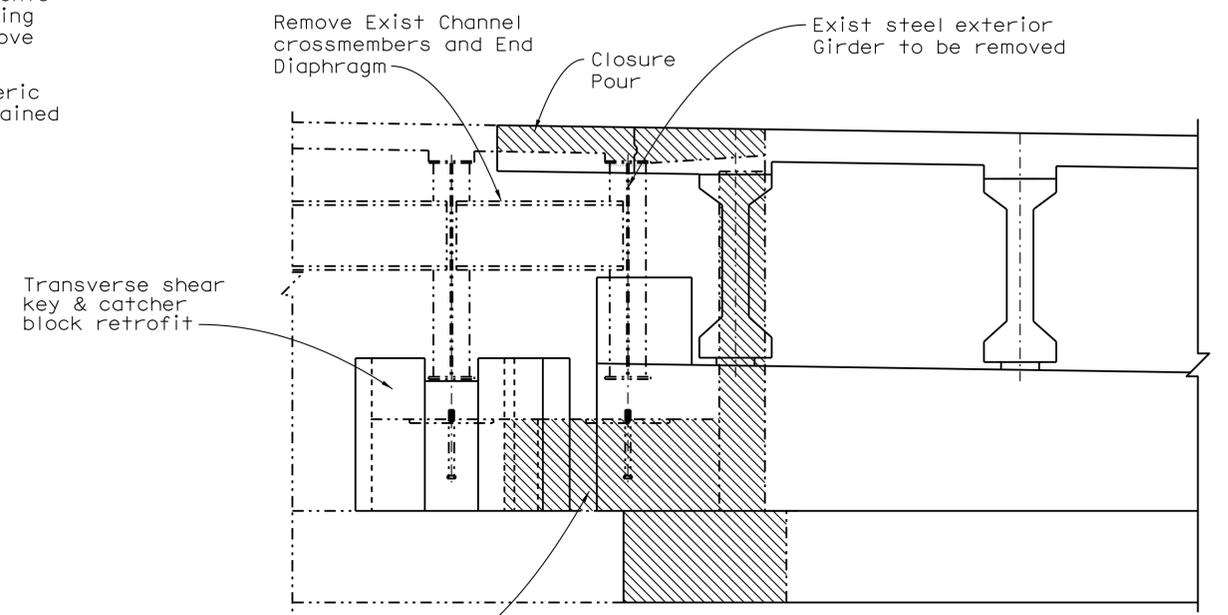
1" = 6"



CONCRETE BARRIER TYPE 60A (MOD)

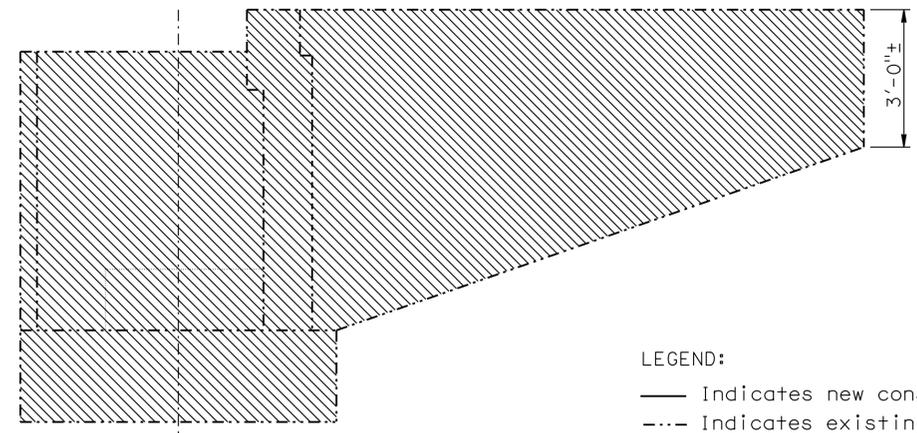
1" = 1'-0"

NOTE: For Details not shown, see A76A



SECTION F-F

1/2" = 1'-0"



SECTION E-E

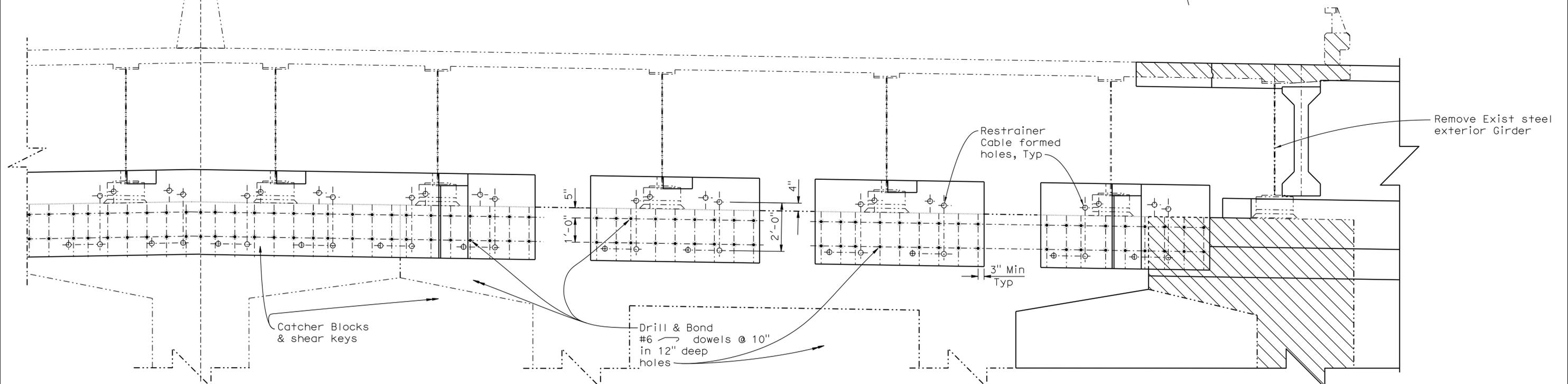
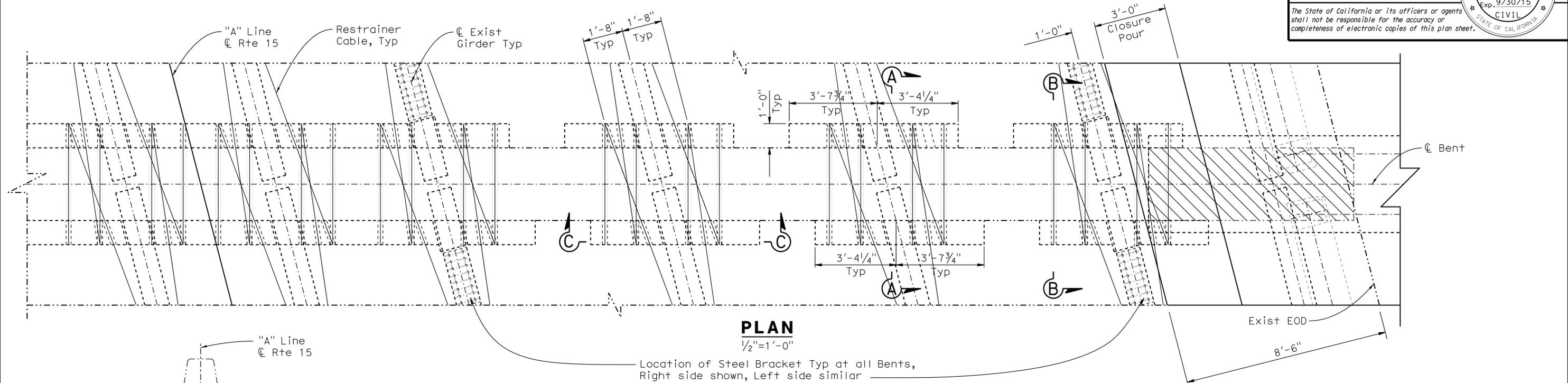
1/2" = 1'-0"

LEGEND:
 — Indicates new construction
 - - - Indicates existing structure
 ▨ Indicates bridge removal (portion)

NOTES:
 1. For location of "SECTION E-E", "SECTION F-F", and "SECTION G-G" see "MISCELLANEOUS DETAILS NO. 1" sheet.

DESIGN BY R. Stiltz CHECKED J. Szabo DETAILS BY G. Hallstrom CHECKED J. Szabo QUANTITIES BY J. Szabo CHECKED T. Sanderson/F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) MISCELLANEOUS DETAILS NO. 2	
			POST MILE 43.5		
			CU 08 EA 3555V1		
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 10-06-08 9-29-09 10-12-09 11-04-12 04-24-14 05-14-14	SHEET 30 OF 41

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	796	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER RYAN STILTZ No. C65738 Exp. 9/30/15 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.					



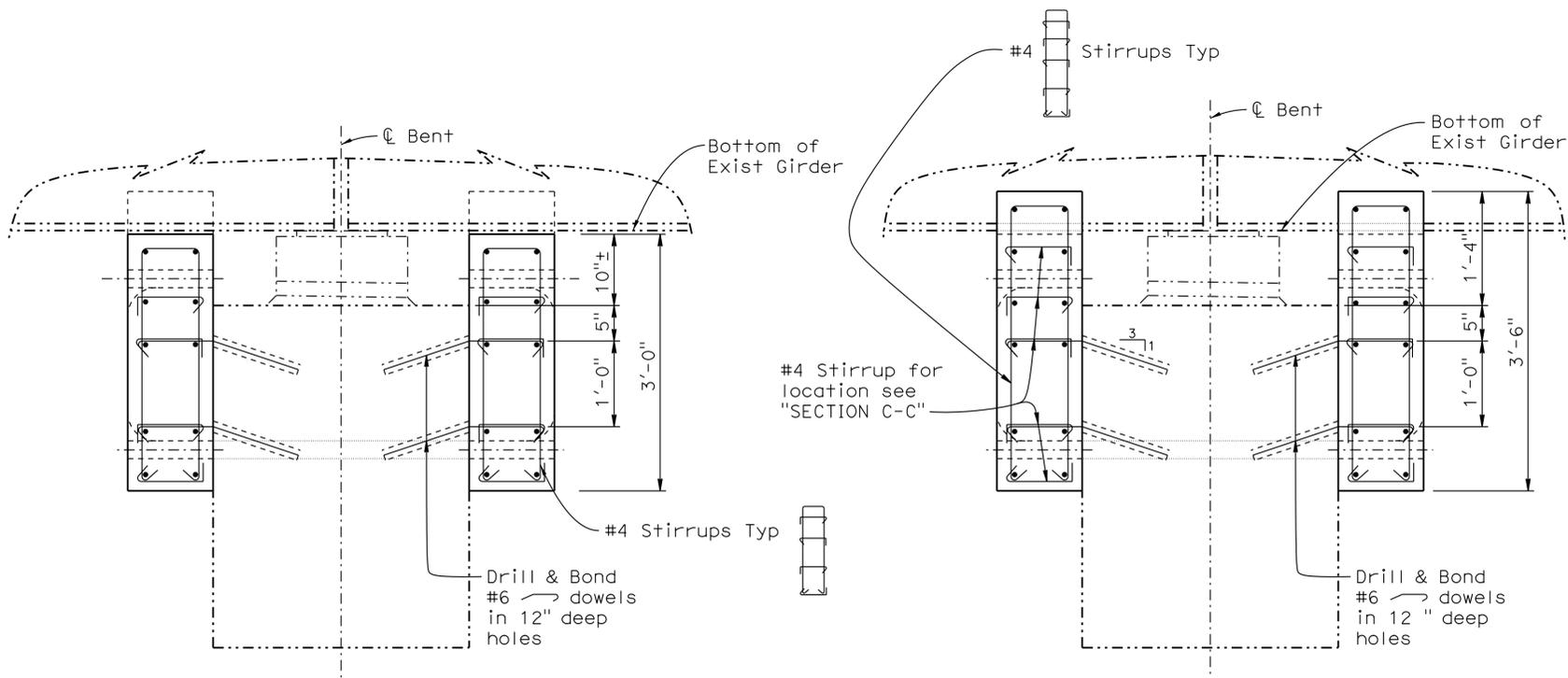
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND:
 — Indicates new construction
 - - - Indicates existing structure
 [Hatched] Indicates Bridge Removal (Portion)

DESIGN BY R. Stiltz	CHECKED J. Szabo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) BENT RETROFIT DETAILS NO. 1	
DETAILS BY G. Hallstrom	CHECKED J. Szabo			POST MILE 43.5		
QUANTITIES BY J. Szabo	CHECKED T. Sanderson/F. Chen					
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 06-02-09 10-04-09 11-08-12 12-10-12 3-07-13 7-09-13	SHEET 31 OF 41

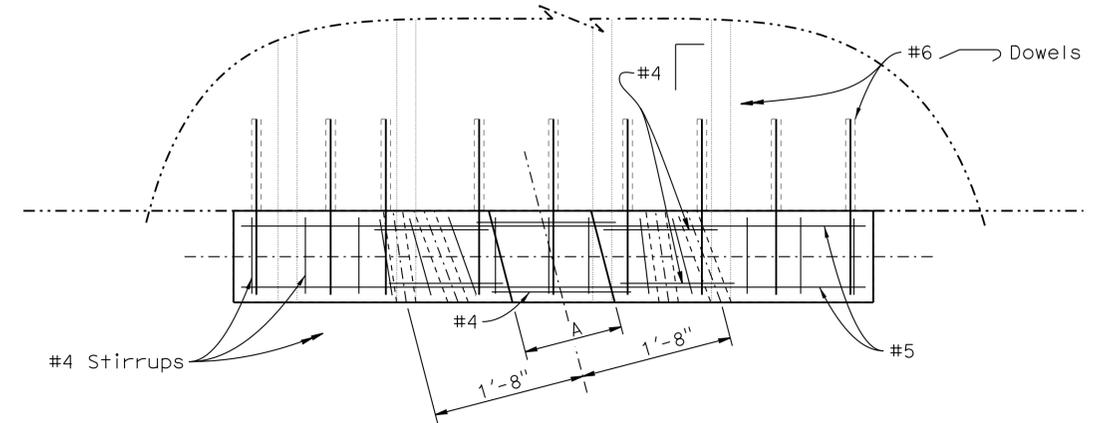
USERNAME => s124496 DATE PLOTTED => 27-JUN-2014 TIME PLOTTED => 12:59

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	797	824
			11-07-13	REGISTERED CIVIL ENGINEER DATE	
			6-23-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER No. C65738 Exp. 9/30/15 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.					



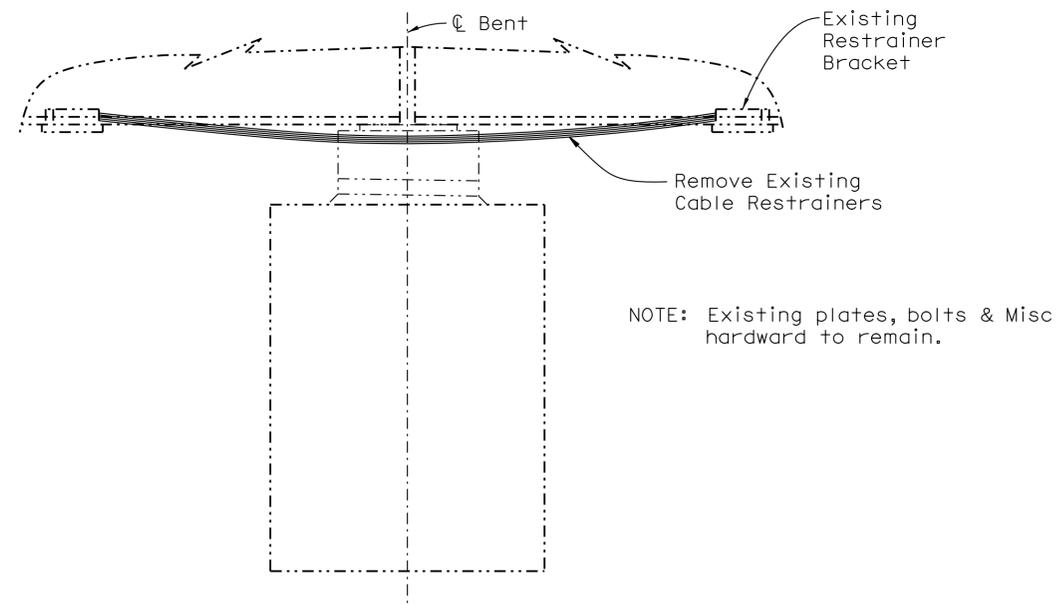
SECTION A-A
1"=1'-0"

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



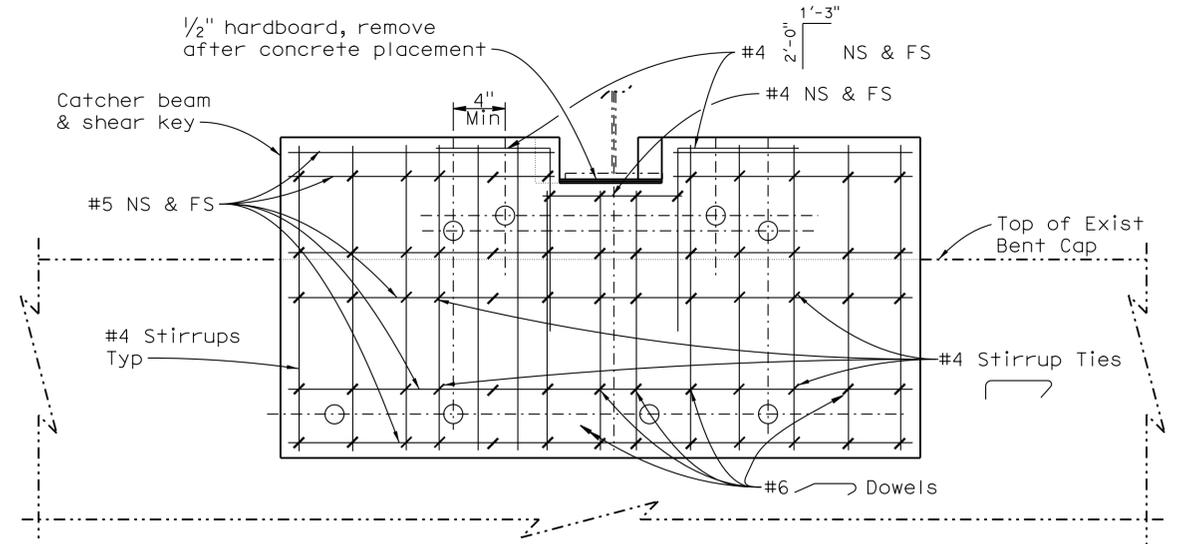
NOTE:
 A = 13" @ Bents 2, 3, 4 (span 3), 5 (span 5), and 6
 A = 17" @ Bents 4 (span 4) and 5 (span 4)

PLAN
1"=1'-0"



EXISTING SECTION A-A
1"=1'-0"

NOTE: Existing plates, bolts & Misc hardware to remain.



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

NOTE: For location of "SECTION A-A", "SECTION B-B", and "SECTION C-C", see "MISCELLANEOUS DETAILS NO. 3" sheet.

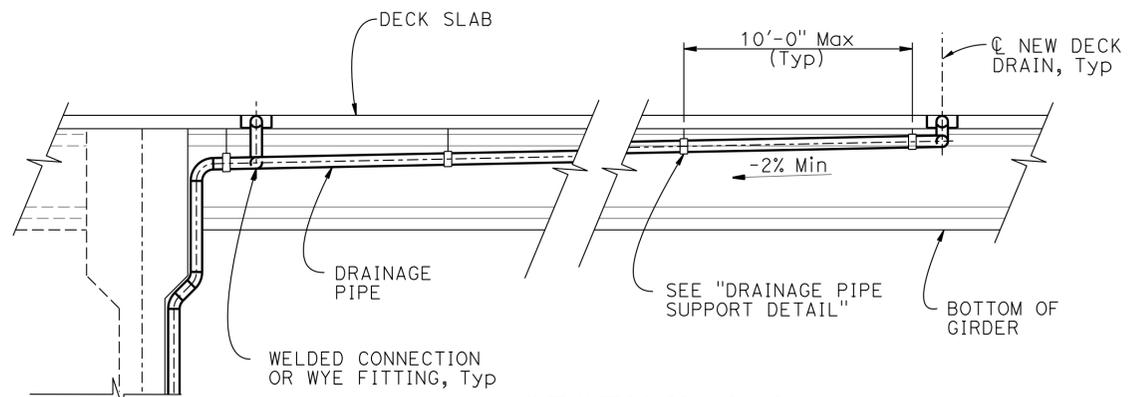
LEGEND:
 — Indicates new construction
 - - - Indicates existing structure

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

DESIGN	BY R. Stiltz	CHECKED J. Szabo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) BENT RETROFIT DETAILS NO. 2
DETAILS	BY G. Hallstrom	CHECKED J. Szabo			54-0484	
QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen			43.5	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 EA 3555V1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 10-02-09 12-16-12 3-04-13 7-10-13
				0 1 2 3		SHEET 32 OF 41

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	798	824

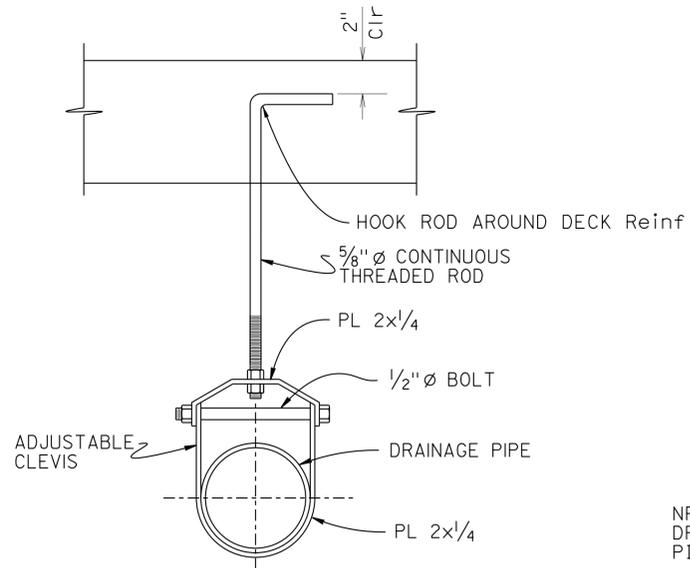
11-07-13
 REGISTERED CIVIL ENGINEER DATE
 6-23-14
 PLANS APPROVAL DATE
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 CIVIL
 STATE OF CALIFORNIA



SECTION A-A

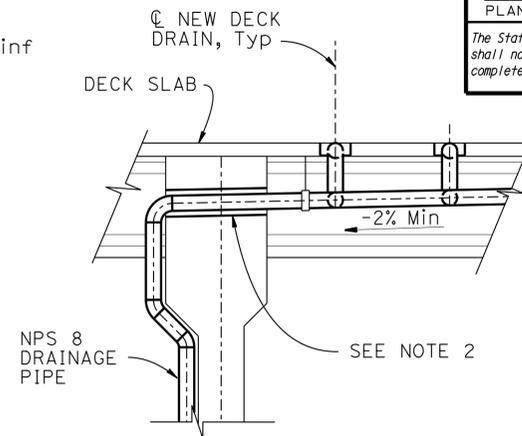
1/4" = 1'-0"

NOTE: Left side shown, right side similar



DRAINAGE PIPE SUPPORT

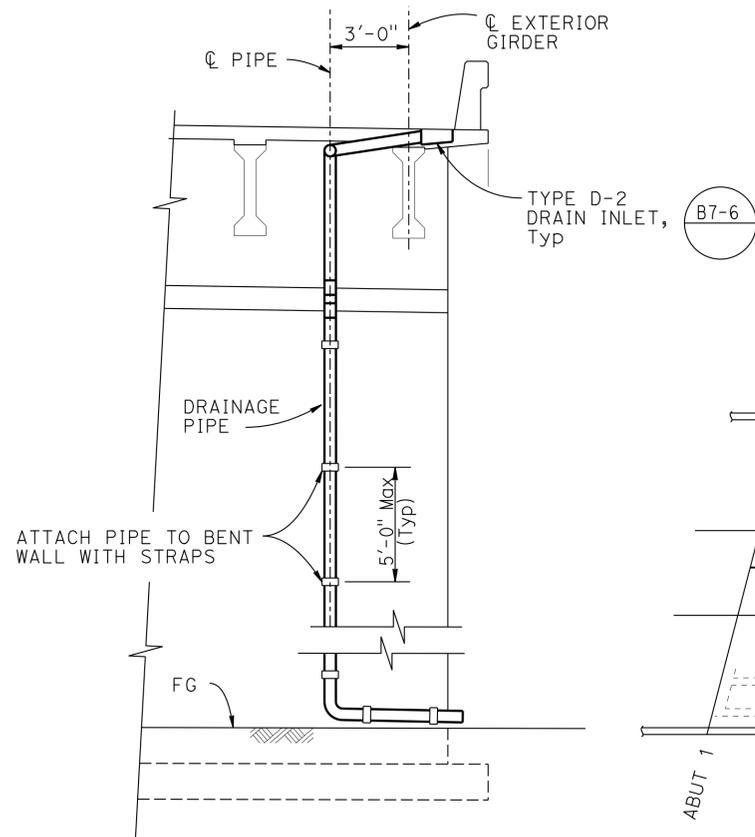
No Scale



SECTION C-C

1/4" = 1'-0"

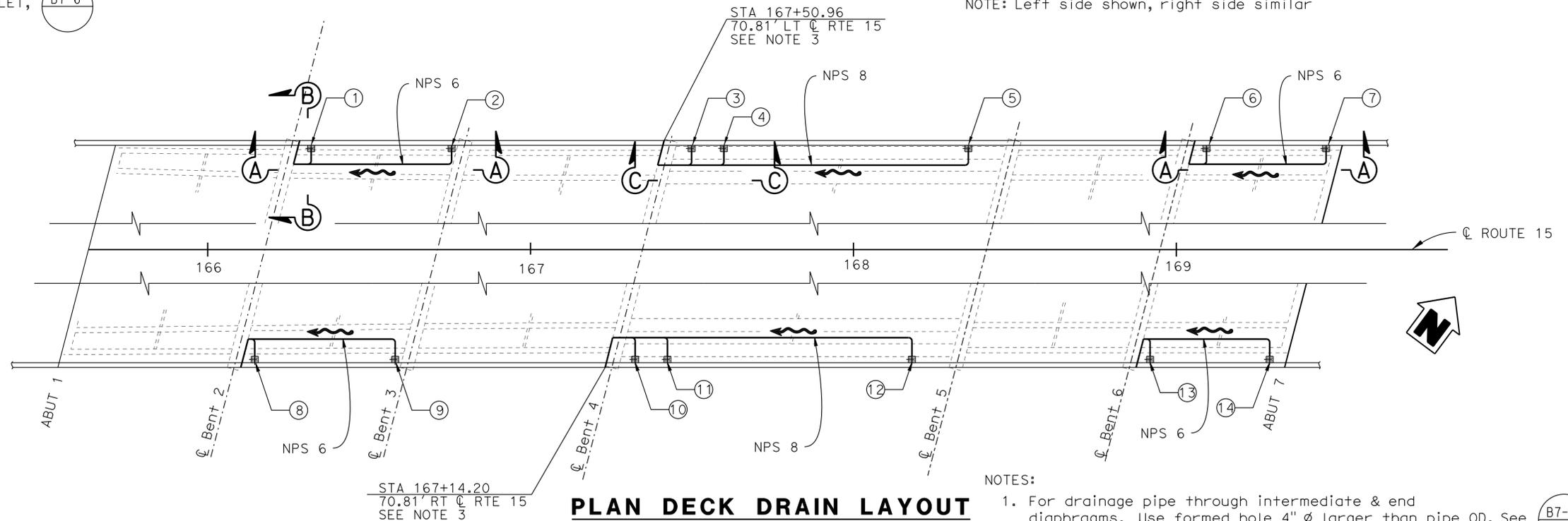
NOTE: Left side shown, right side similar



SECTION B-B

1/4" = 1'-0"

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



PLAN DECK DRAIN LAYOUT

1"=20'

NOTES:

- For drainage pipe through intermediate & end diaphragms, Use formed hole 4" ϕ larger than pipe OD. See B7-10
- Drainage Pipe shall be NPS 8 x 0.148" or NPS 6 x 0.135" as shown. For drainage details and notes not shown, see B7-6
- Connect outlet at Bent 3 to drainage system DS-30, see "ROADWAY PLANS"

LEGEND:

Indicates deck - drain flow direction

DECK-DRAIN TYPE D-2 LOCATIONS

C DRAIN LEFT SIDE	1	2	3	4	5	6	7
C ROUTE 15 STA	166+41.70	166+85.20	167+56.00	167+66.00	168+37.20	169+19.00	169+56.00
C DRAIN RIGHT SIDE	8	9	10	11	12	13	14
C ROUTE 15 STA	166+05.60	166+49.10	167+23.50	167+33.50	168+09.20	168+83.00	169+20.00

DESIGN	BY R. Stiltz	CHECKED J. Szabo
DETAILS	BY R. Kirkland	CHECKED J. Szabo
QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

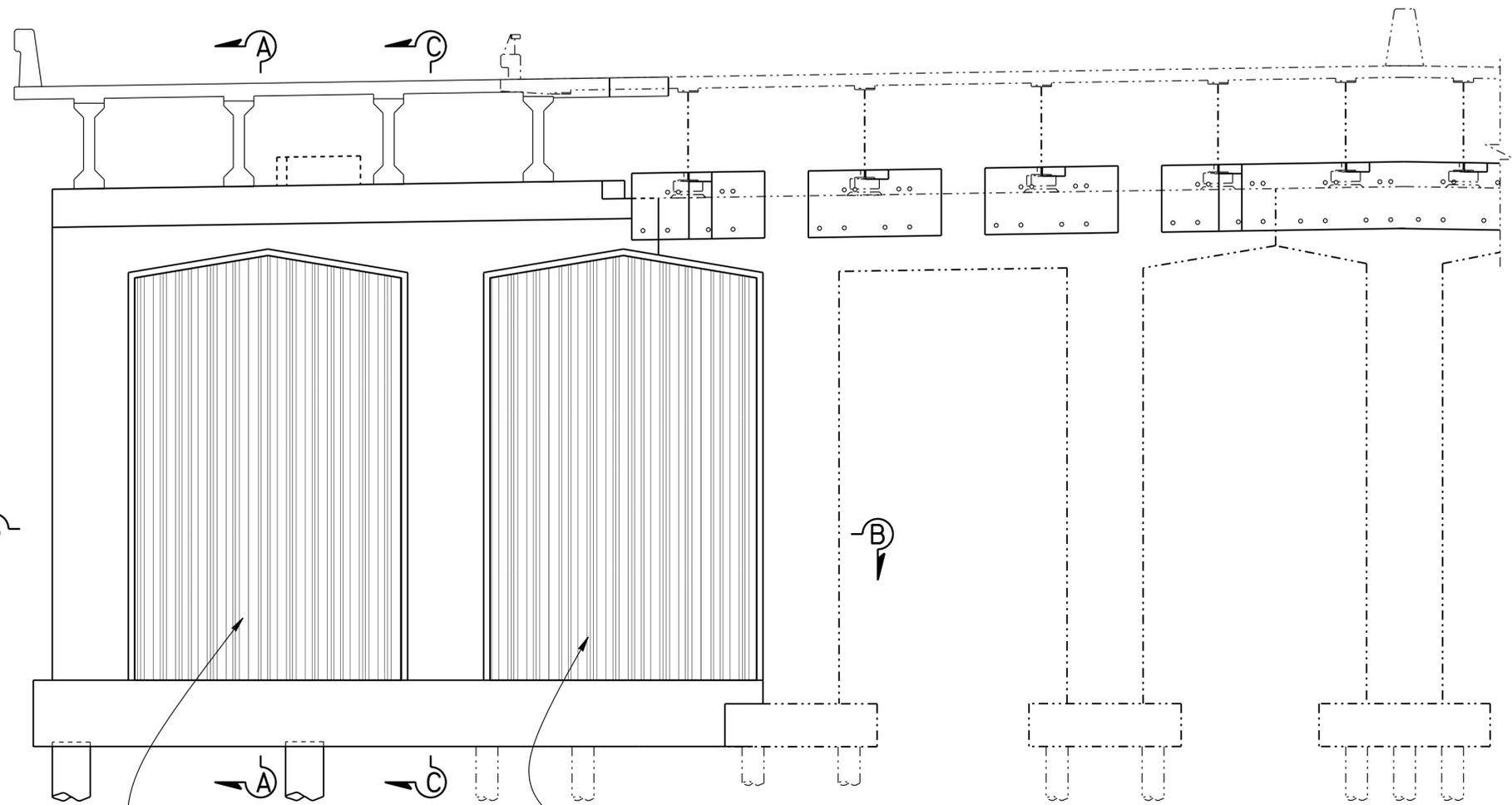
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO. 54-0484
POST MILE 43.5

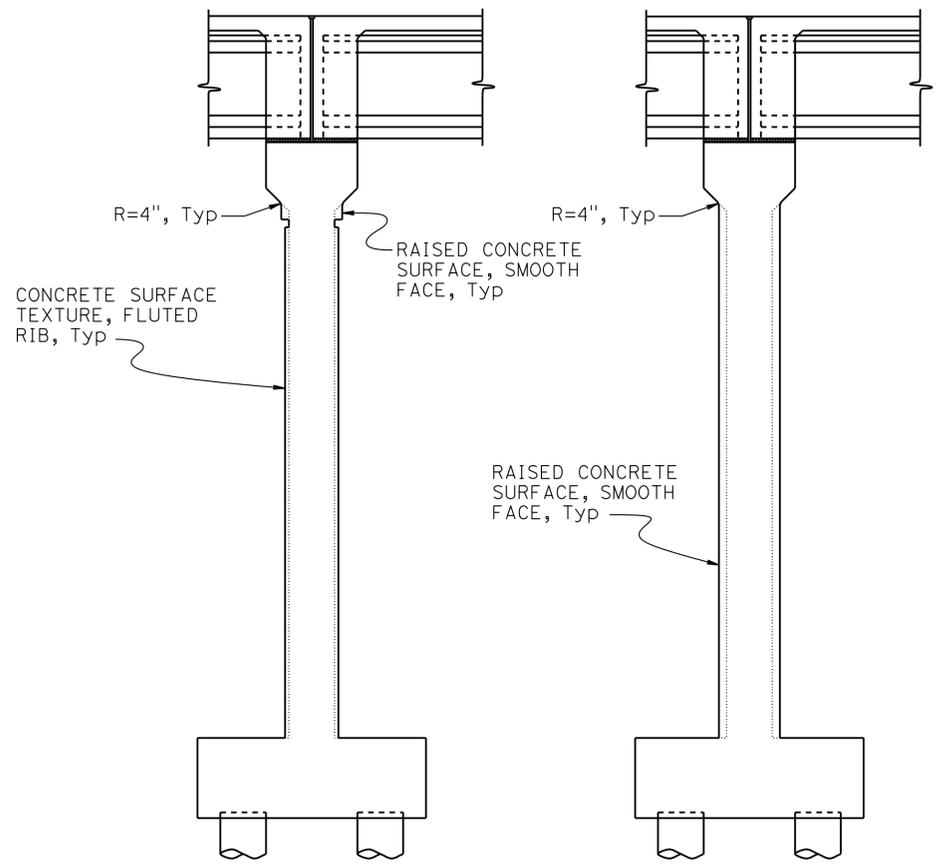
VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
STRUCTURE DRAINAGE LAYOUT

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	42.5/46.0	799	824

REGISTERED CIVIL ENGINEER DATE 11-07-13
 RYAN STILTZ
 No. C65738
 Exp. 9/30/15
 CIVIL
 STATE OF CALIFORNIA
 6-23-14
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



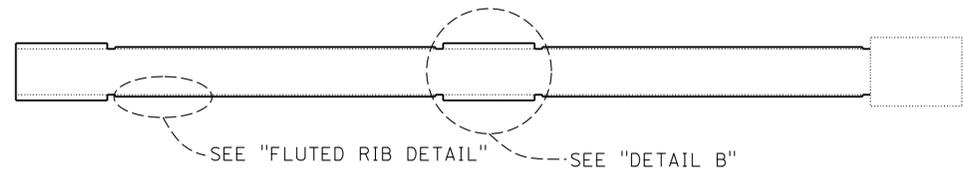
ELEVATION
1/4"=1'-0"



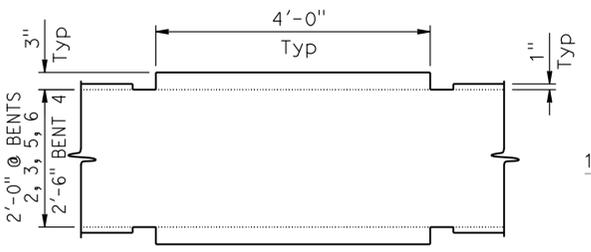
SECTION A-A
1/4"=1'-0"

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

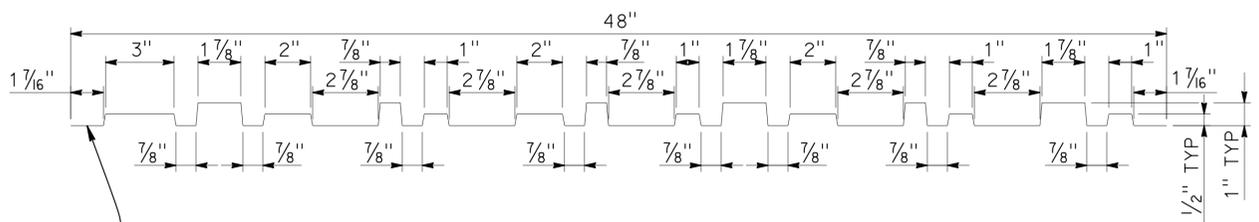
CONCRETE SURFACE TEXTURE, FLUTED RIB



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



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



FLUTED RIB DETAIL
3"=1'-0"

NOTE:
Bent 3 Left shown, others similar.

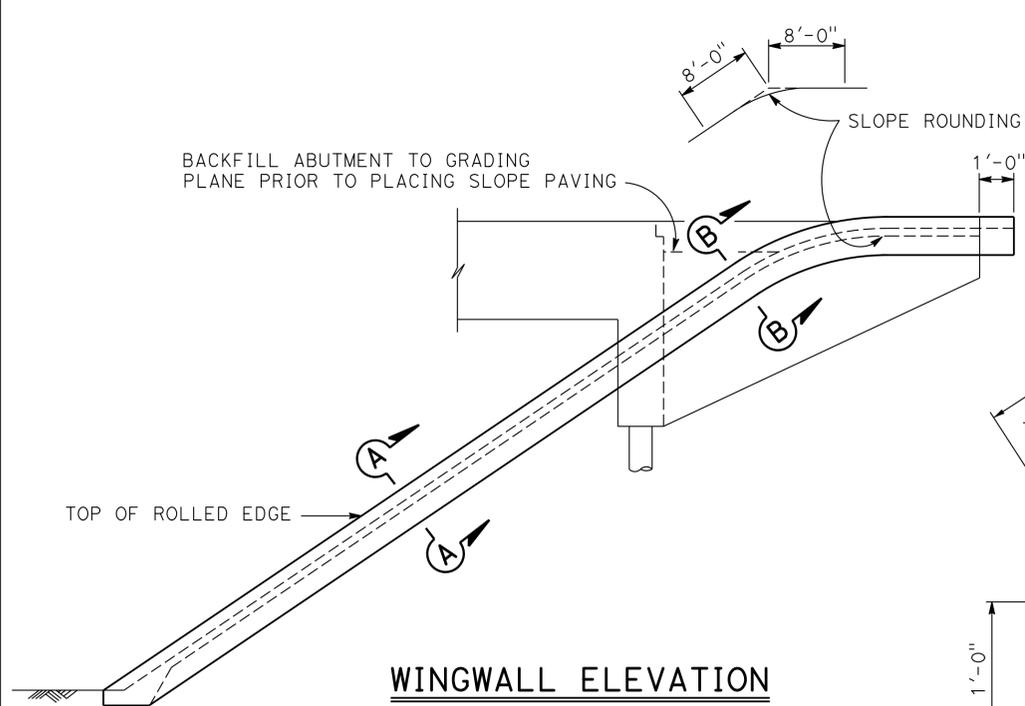
DESIGN	BY R. Stiltz	CHECKED J. Szabo
DETAILS	BY G. Hallstrom	CHECKED J. Szabo
QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

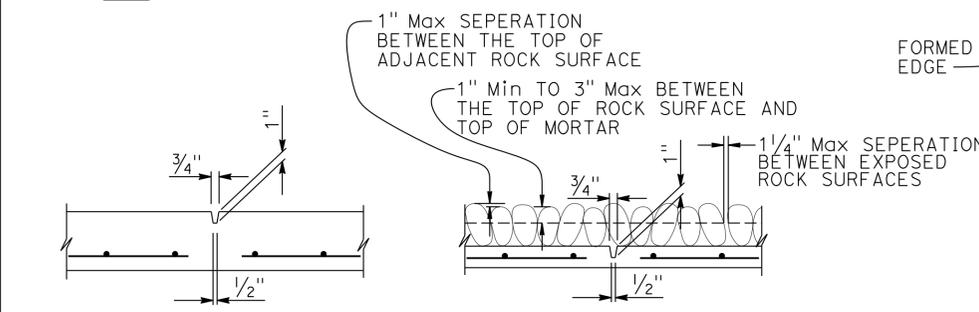
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO. 54-0484
POST MILE 43.5
VICTORVILLE SEPARATION & OVERHEAD (WIDEN)
BENT ARCHITECTURAL DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	42.5/46.0	800	824
 REGISTERED CIVIL ENGINEER			11-07-13	DATE	
6-23-14			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					
REGISTERED PROFESSIONAL ENGINEER RYAN STILTZ No. C65738 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA					

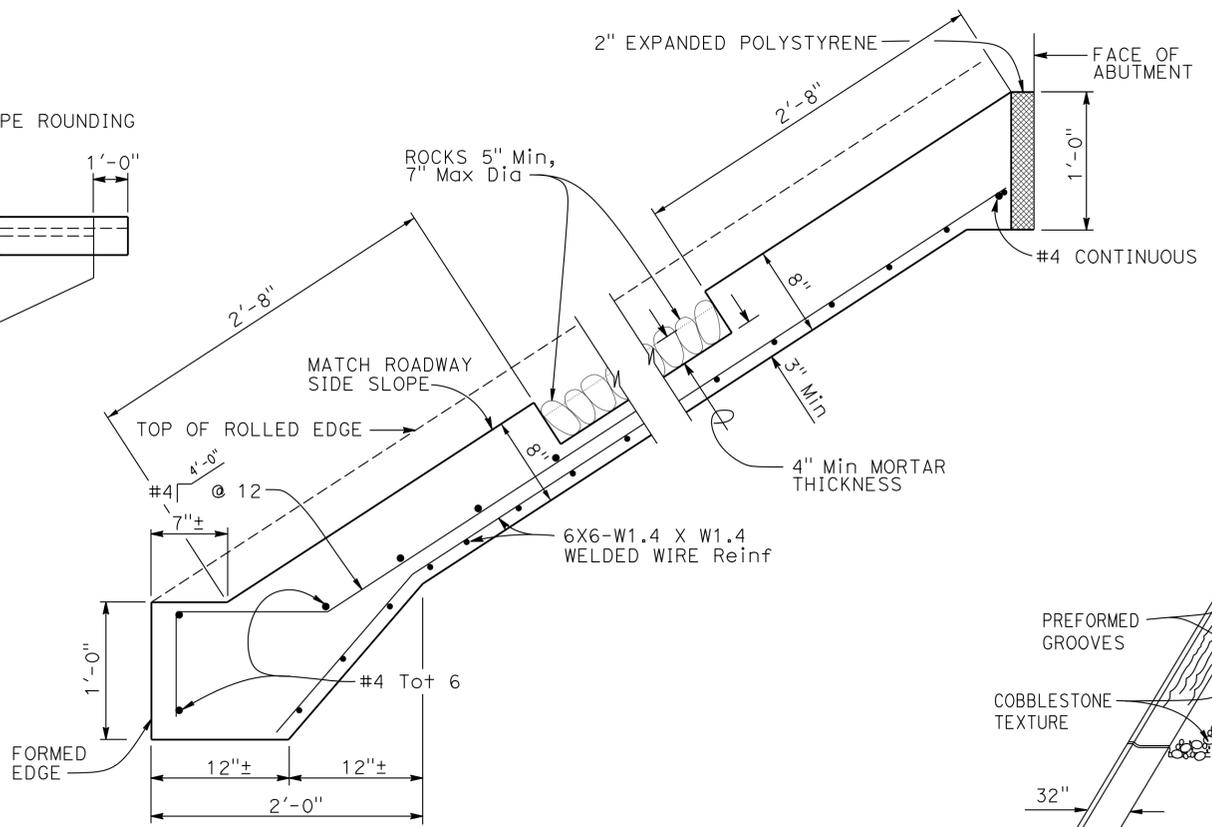


WINGWALL ELEVATION

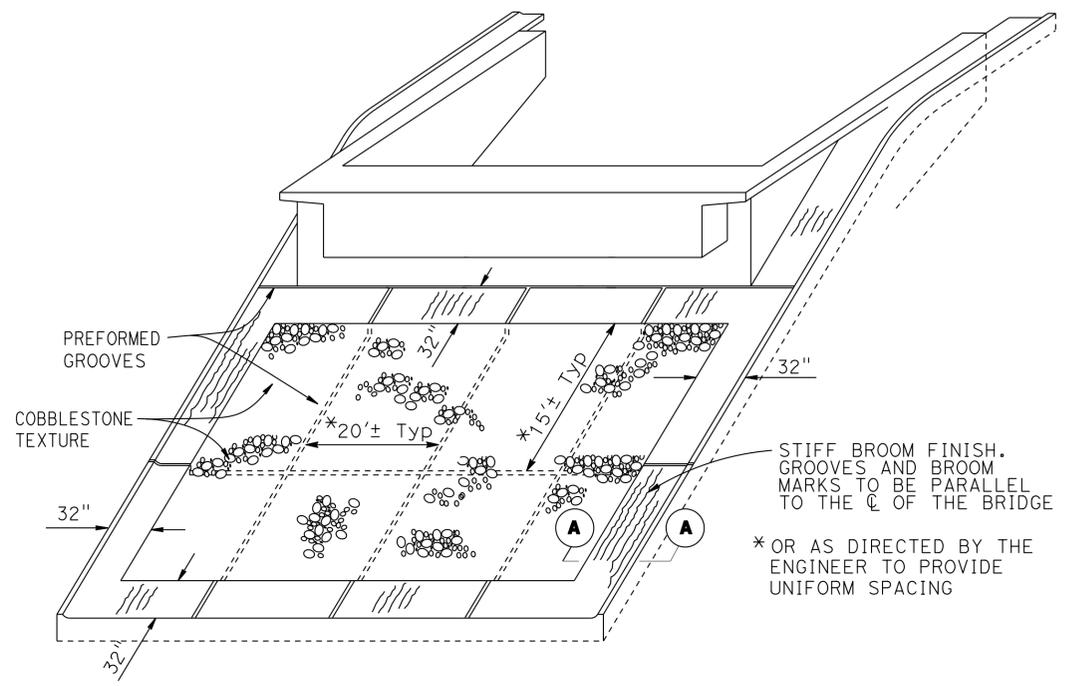


PREFORMED GROOVE AT PERIMETER

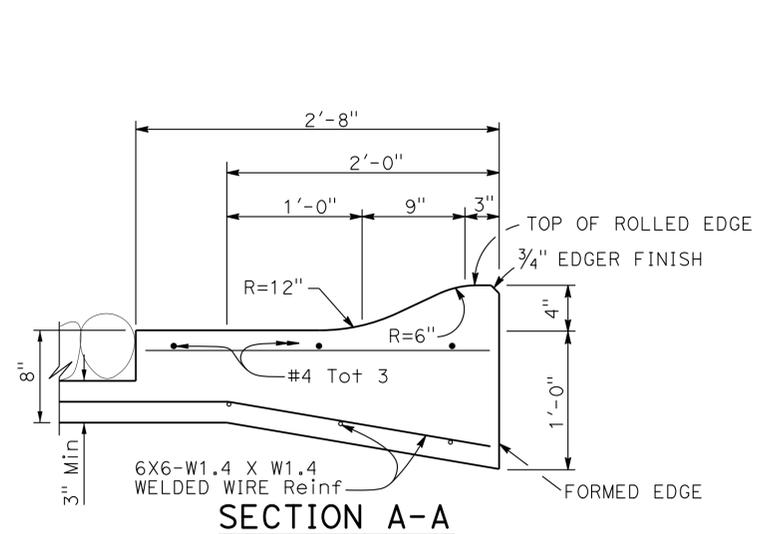
PREFORMED GROOVE AT COBBLE BED



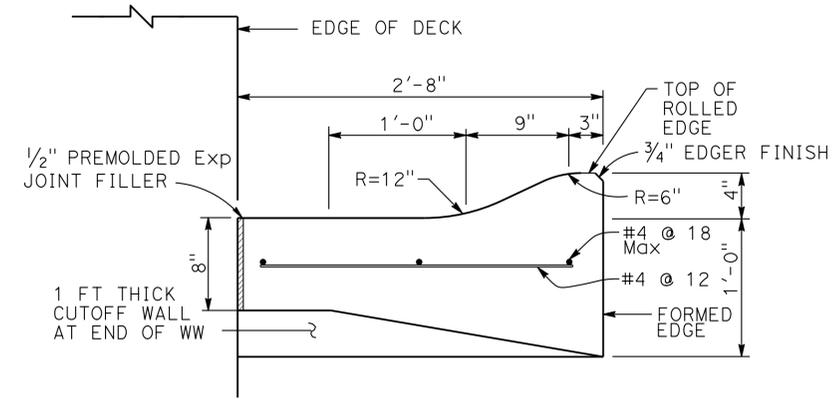
TYPICAL SECTION - CONCRETE PAVING



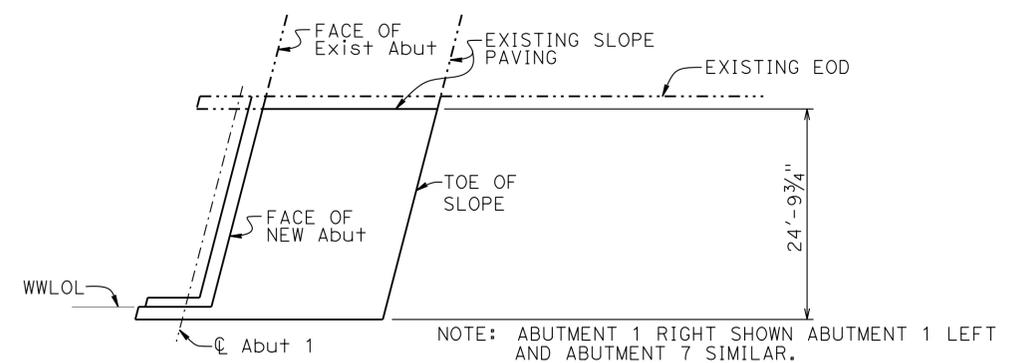
PICTORIAL VIEW OF TYPICAL INSTALLATION



SECTION A-A



SECTION B-B



LIMITS OF SLOPE PAVING

- NOTES:
1. Rocks shall be fully seated in the mortar bed. The mortar surface shall be trimmed to depth as shown.
 2. Excess mortar shall be removed and the rocks surfaces shall be cleaned after placement.
 3. Rocks are to be grey in color.
 4. Bottom of slope paving to match toe of fill. Dimensions to be field verified.

NO SCALE

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY R. Stiltz	CHECKED J. Szabo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0484	VICTORVILLE SEPARATION & OVERHEAD (WIDEN) SLOPE PAVING (COBBLESTONE TEXTURE)
	DETAILS	BY G. Hallstrom	CHECKED J. Szabo			POST MILE	43.5	
	QUANTITIES	BY J. Szabo	CHECKED T. Sanderson/F. Chen			UNIT: 3589 PROJECT NUMBER & PHASE: 0800000621	CONTRACT NO.: 08-355561	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3		REVISION DATES		SHEET 35 OF 41