

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	101	149

04-06-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE

JOHN R. TJOELKER
 No. C77165
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

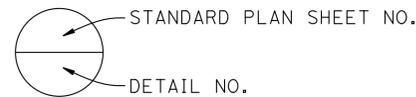
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	BARRIER SLAB DETAIL

STANDARD PLANS 2010 EDITION

PLAN NO.	PLAN TITLE
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)
RSP B11-68	CALIFORNIA ST-10 BRIDGE RAIL (SHEET 1 OF 3)
B11-69	CALIFORNIA ST-10 BRIDGE RAIL (SHEET 2 OF 3)
RSP B11-70	CALIFORNIA ST-10 BRIDGE RAIL (SHEET 3 OF 3)

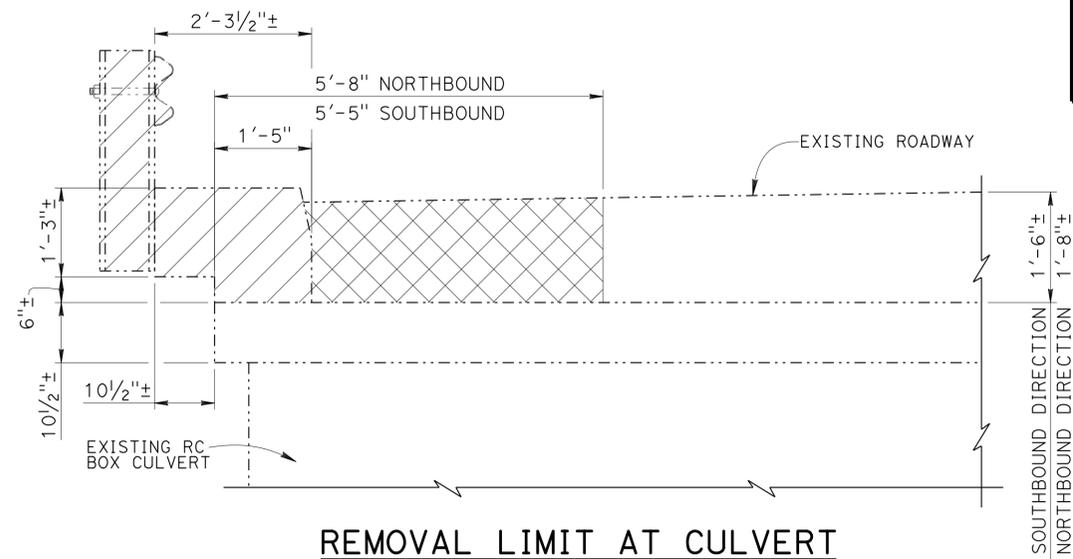


GENERAL NOTES LOAD FACTOR DESIGN

DESIGN:
AASHTO LFD Bridge Design Specifications and Caltrans Amendments, preface dated April 2000

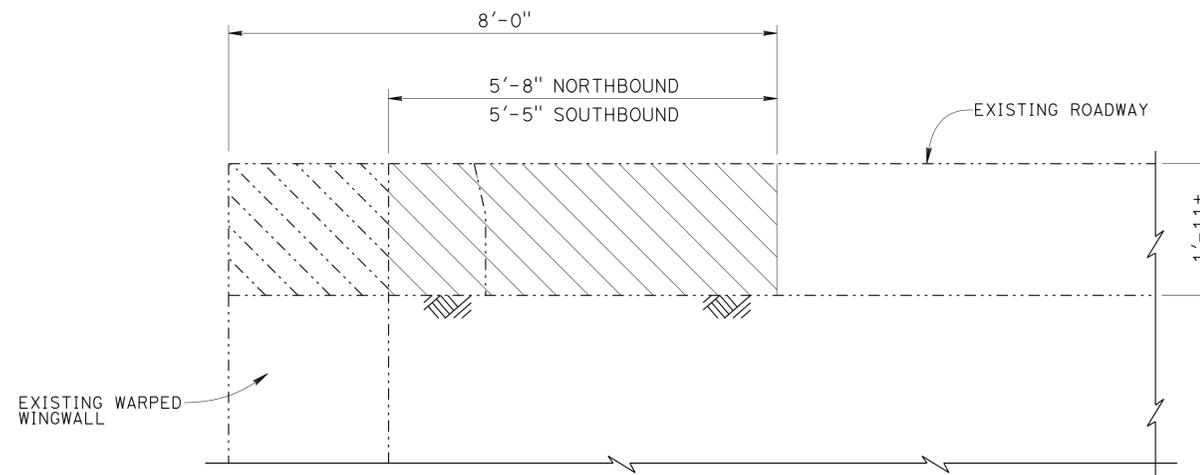
CONCRETE:
 $f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$

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



REMOVAL LIMIT AT CULVERT

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



REMOVAL LIMIT OFF CULVERT

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

NOTE:
For length of warped wingwall removal, see "PLAN" on "BARRIER SLAB DETAIL" sheet.

LEGEND:

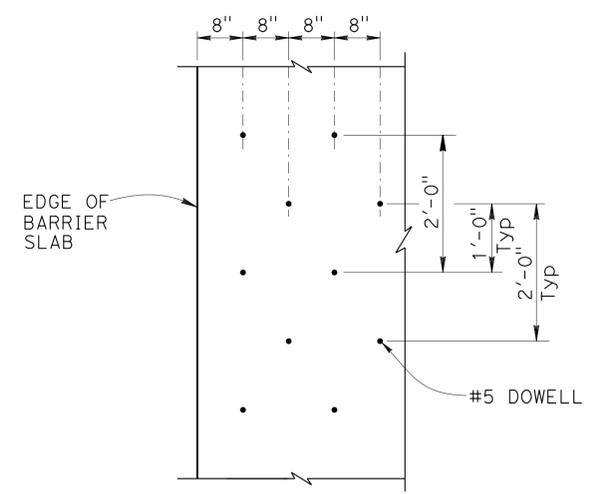
- Indicates Existing Structure
- Indicates Limits of Bridge Removal (Portion)
- Indicates Limits of Roadway Removal, see "ROADWAY PLANS"
- Indicates Remove Asphalt Concrete Surfacing
- Indicates Limits of existing warped wingwall

NORTH BRANCH GALLINAS CREEK BRIDGE	
BARRIER REPLACEMENT	
INDEX TO PLANS	

DESIGN	BY John Tjoelker	CHECKED Sam Kotalawala	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO.	27-0006
DETAILS	BY F. Maagma, P. Daplas	CHECKED John Tjoelker			POST MILE	13.99
QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke				

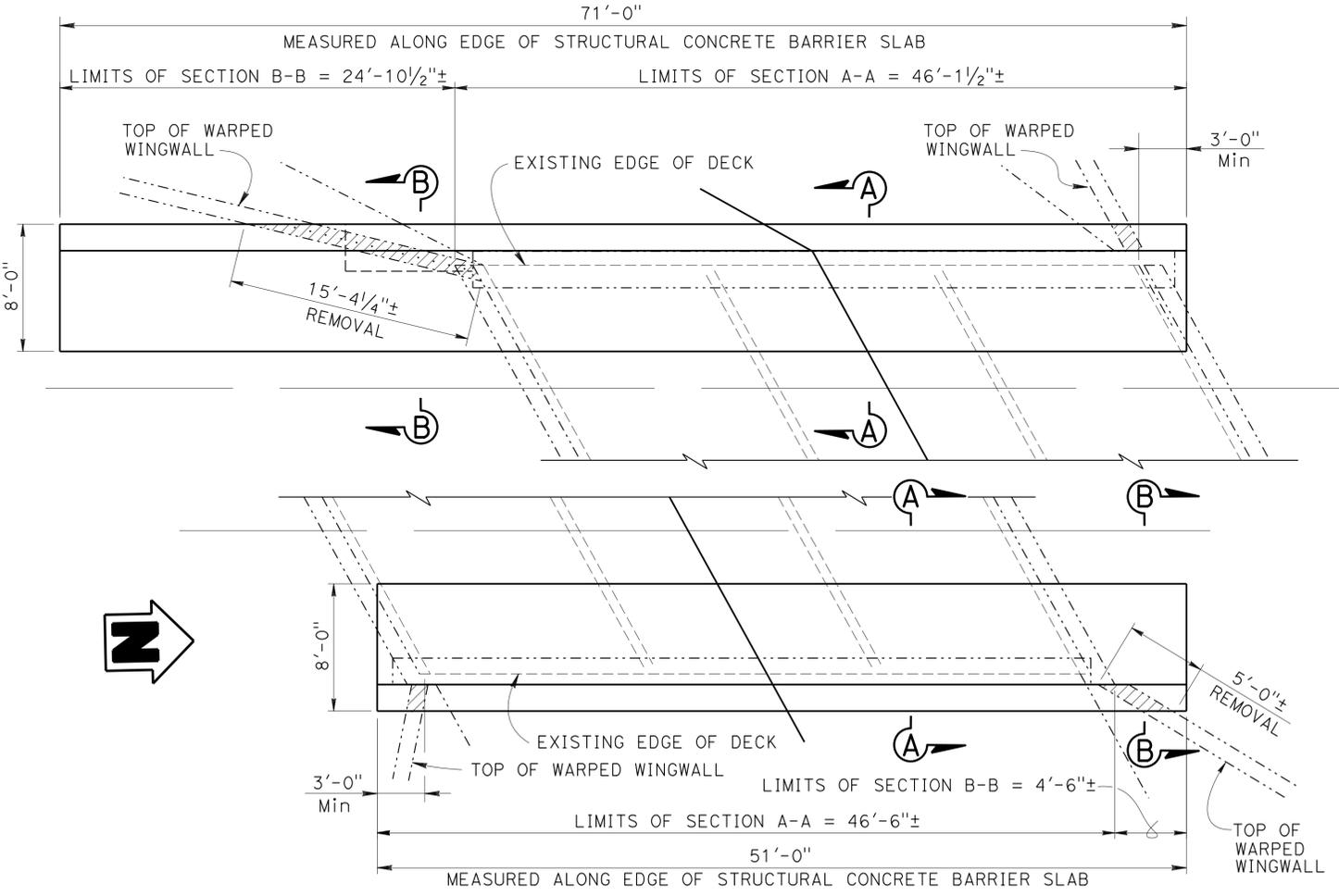
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	102	149

REGISTERED CIVIL ENGINEER
 DATE 04-06-15
 4-27-15
 PLANS APPROVAL DATE
 JOHN R. TJOELKER
 No. C77165
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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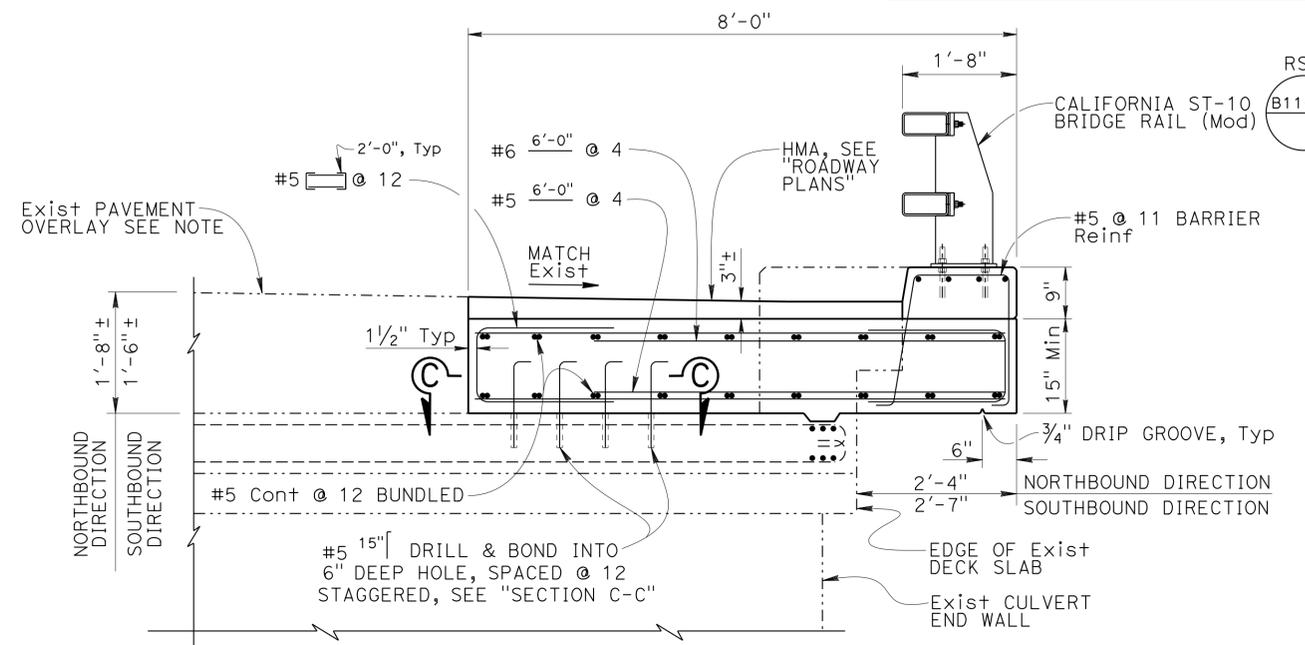
SECTION C-C
3/4" = 1'-0"

LEGEND:
 ——— Indicates New Structure
 - - - - - Indicates Existing Structure
 [Hatched] Indicates Limits of Warped Wingwall to be removed 1'-11" deep



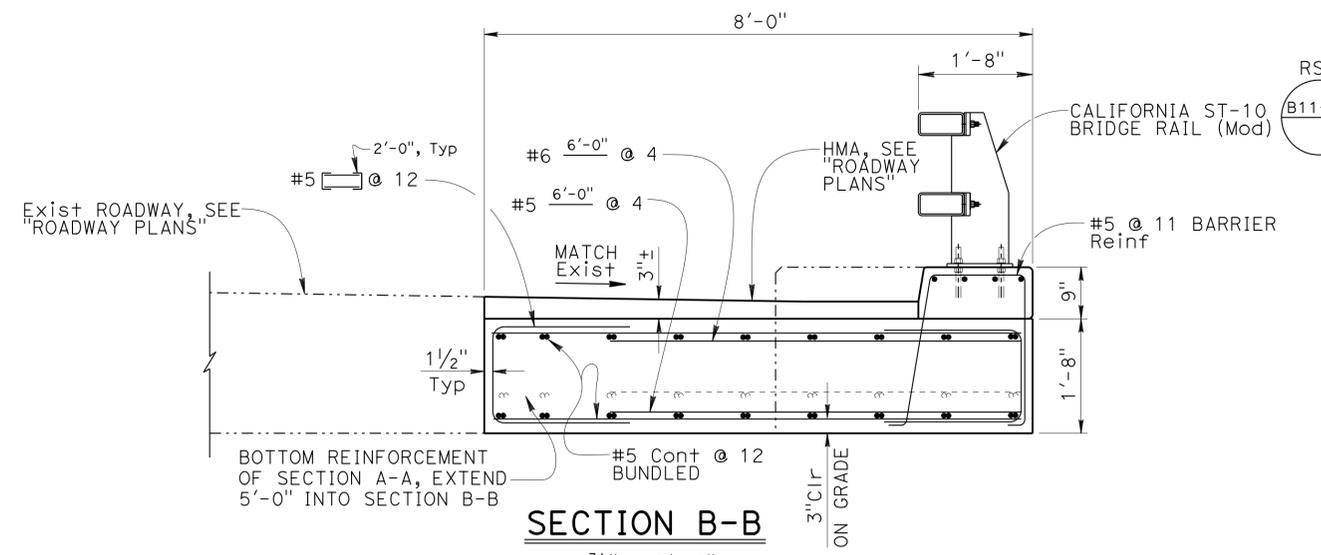
PLAN
3/16" = 1'-0"

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



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

NOTE:
 NORTHBOUND DIRECTION SHOWN, SOUTHBOUND DIRECTION SIMILAR



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

NOTE:
 NORTHBOUND DIRECTION SHOWN, SOUTHBOUND DIRECTION SIMILAR

DESIGN	BY John Tjoelker	CHECKED Sam Kotawala
DETAILS	BY Primitivo Daplas	CHECKED John Tjoelker
QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 8

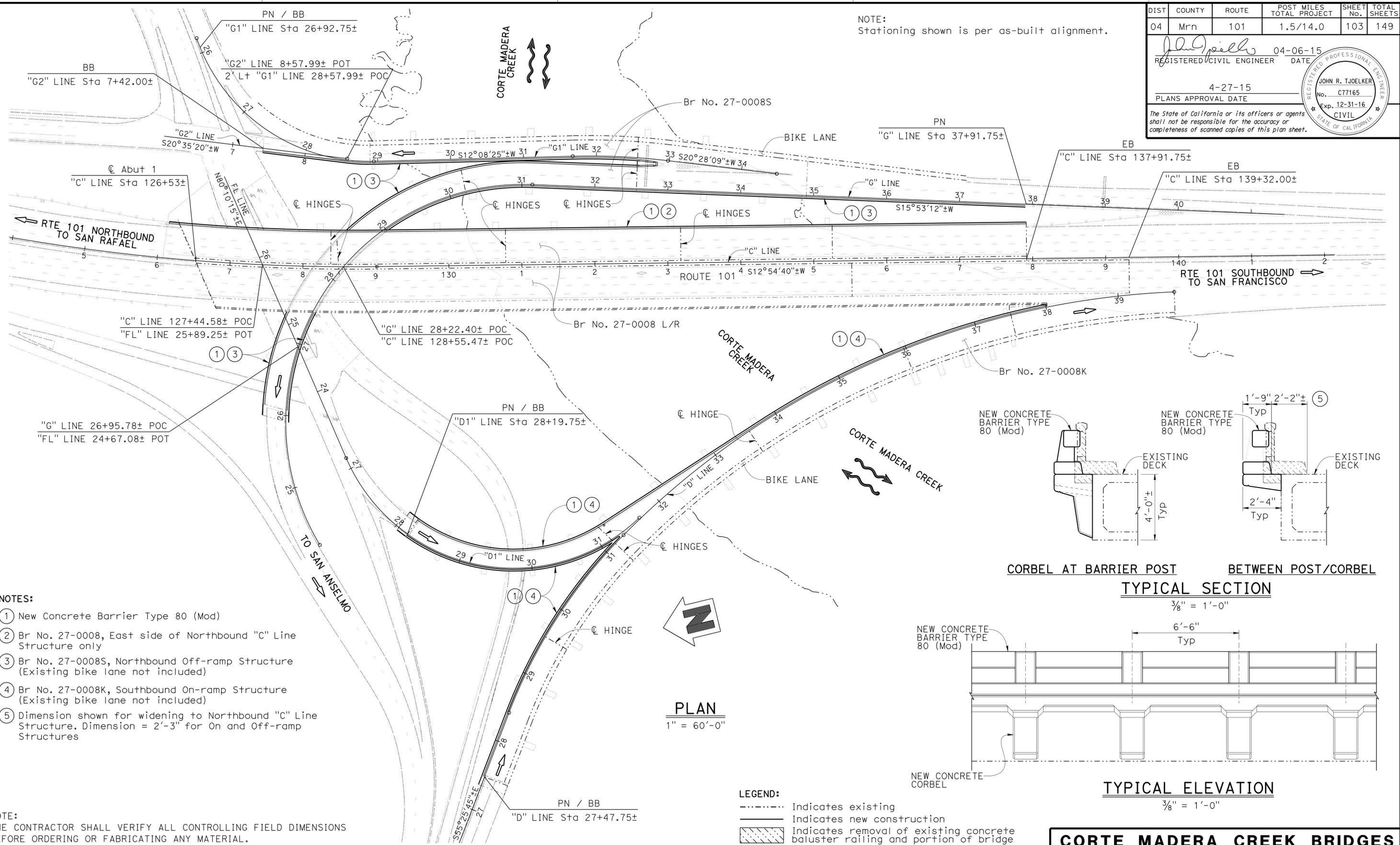
BRIDGE NO.	27-0006
POST MILE	13.99

NORTH BRANCH GALLINAS CREEK BRIDGE
BARRIER REPLACEMENT
BARRIER SLAB DETAIL

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	103	149

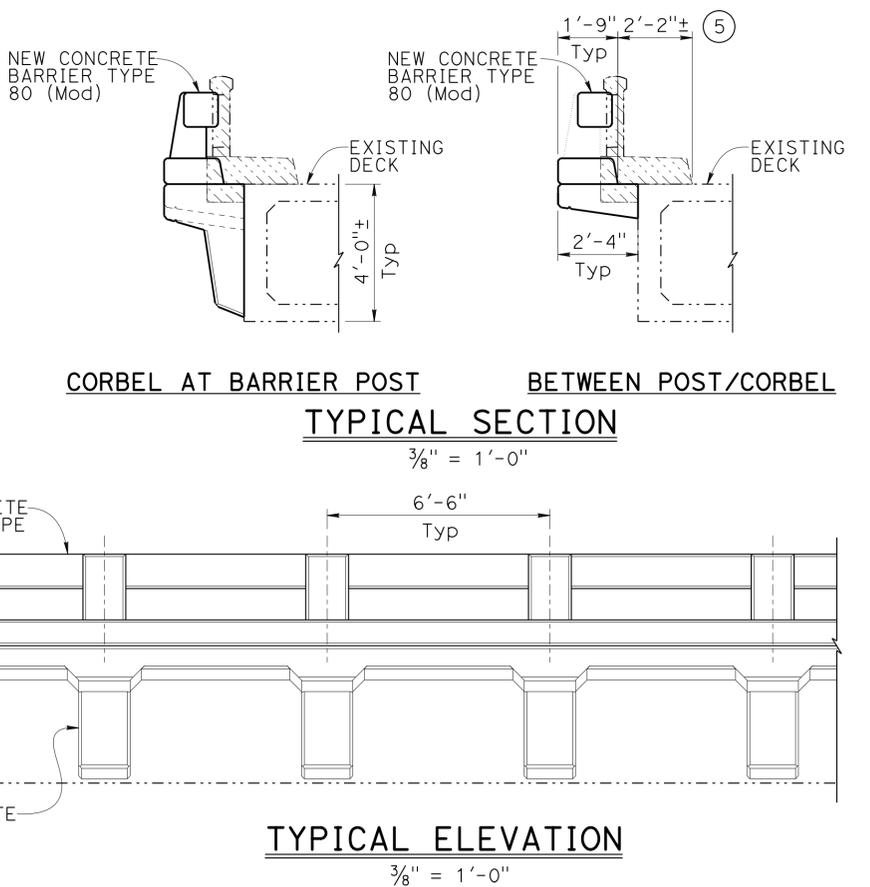
04-06-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE
 JOHN R. TJOELKER
 No. C77165
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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NOTE:
Stationing shown is per as-built alignment.



- NOTES:
- ① New Concrete Barrier Type 80 (Mod)
 - ② Br No. 27-0008, East side of Northbound "C" Line Structure only
 - ③ Br No. 27-0008S, Northbound Off-ramp Structure (Existing bike lane not included)
 - ④ Br No. 27-0008K, Southbound On-ramp Structure (Existing bike lane not included)
 - ⑤ Dimension shown for widening to Northbound "C" Line Structure. Dimension = 2'-3" for On and Off-ramp Structures

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



LEGEND:
 - - - - - Indicates existing
 ———— Indicates new construction
 ▨ ▨ ▨ Indicates removal of existing concrete baluster railing and portion of bridge

PLAN
1" = 60'-0"

Nora Kyo DESIGN ENGINEER	DESIGN	BY John Tjoelker	CHECKED Sam Kotalawala	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
	DETAILS	BY Carlo Cancino	CHECKED John Tjoelker	LAYOUT	BY John Tjoelker
	QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke	SPECIFICATIONS	BY Sharon Hansen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 8

CORTE MADERA CREEK BRIDGES
BARRIER REPLACEMENT / WIDEN
GENERAL PLAN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	104	149

04-06-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE

JOHN R. TJOELKER
 No. C77165
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	STRUCTURE PLAN NO. 1
4	STRUCTURE PLAN NO. 2
5	STRUCTURE PLAN NO. 3
6	CONCRETE CORBEL DETAILS
7	WINGWALL DETAILS NO. 1
8	WINGWALL DETAILS NO. 2
9	WINGWALL DETAILS NO. 3
10	EXCAVATION AND BACKFILL
11	CONC. BARRIER-SLAB "G2" LINE
12	CONC. BARRIER DETAILS NO. 1-"G", "G1" LINE
13	CONC. BARRIER DETAILS NO. 2-"G", "G1" LINE
14	CONC. BARRIER-SLAB WITH WALL "G" LINE
15	CONC. BARRIER-SLAB WITHOUT WALL "C" LINE
16	CONC. BARRIER-SLAB WITH WALL "C" LINE
17	CONC. BARRIER-SLAB "D" LINE
18	STEEL PLATE DETAILS
19	CONCRETE GORE DETAILS NO. 1
20	CONCRETE GORE DETAILS NO. 2
21	CONCRETE GORE DETAILS NO. 3
22	SOFFIT ACCESS OPENING DETAILS

STANDARD PLANS 2010 EDITION

PLAN NO.	PLAN TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 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)
RSP B11-60	CONCRETE BARRIER TYPE 80 (SHEET 1 OF 2)
B11-60	CONCRETE BARRIER TYPE 80 (SHEET 2 OF 2)



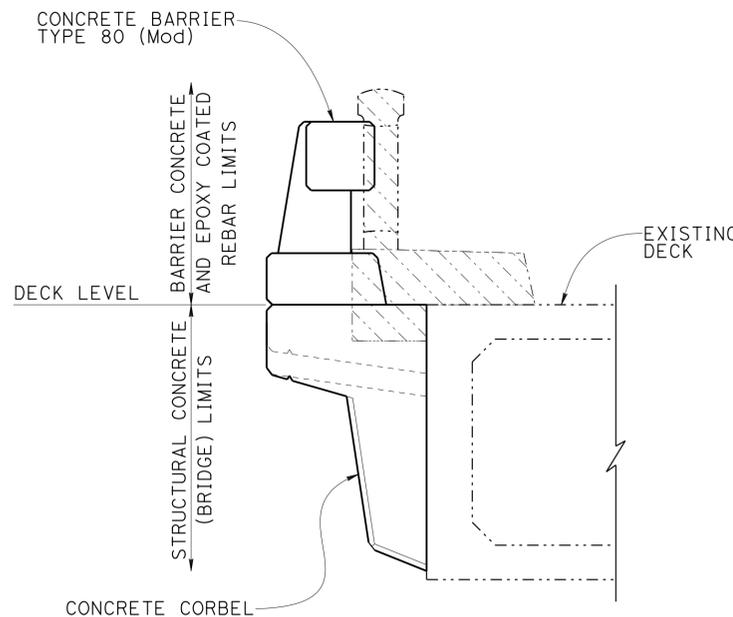
GENERAL NOTES

LOAD FACTOR DESIGN

DESIGN	: AASHTO LFD BRIDGE DESIGN SPECIFICATIONS, and the Caltrans Amendments, dated April 2000.
CONCRETE	: $f_y = 60,000$ psi $f'_c = 3,600$ psi $n = 8$
MISCELLANEOUS METAL	: Steel Section: HSS 12"x12"x1/2" $f_y = 46$ ksi

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

JOINT SEAL TABLE				
BRIDGE NO.	JOINT SEAL LOCATION	MINIMUM "MR" (inches)	APPROXIMATE JOINT LENGTH	SEAL TYPE
27-0008R				
	ABUT C-1	1 1/2	2'-2"	B
	HINGE @ SPAN 4 (C)	1 1/2	2'-2"	B
	HINGE @ SPAN 7 (C)	1 1/2	2'-2"	B
	HINGE @ SPAN 10 (C)	1 1/2	2'-2"	B
	ABUT C-13	1 1/2	2'-2"	B
27-0008K				
	ABUT D1-1	1 1/2	2'-3"	B
	HINGE @ SPAN 5 (D1)	1 1/2	2'-3"	B
	ABUT D-1	1 1/2	2'-3"	B
	HINGE @ SPAN 3 (D)	1 1/2	2'-3"	B
	HINGE @ SPAN 5 (D)	1 1/2	2'-3"	B
	HINGE @ SPAN 8 (D)	1 1/2	2'-3"	B
	PIER 12 (D)	1 1/2	2'-3"	B
	ABUT D-16	1 1/2	2'-3"	B
27-0008S				
	ABUT G2-1	2	2'-3"	B
	HINGE @ SPAN 5 (G2)	2	2'-3"	B
	ABUT G-1	1 1/2	2'-3"	B
	HINGE @ SPAN 4 (G)	1 1/2	2'-3"	B
	HINGE @ SPAN 6 (G)	1 1/2	2'-3"	B
	HINGE @ SPAN 9 (G)	1 1/2	2'-3"	B
	ABUT G-13	1 1/2	2'-3"	B



CONCRETE TYPE LIMITS - TYPICAL

No Scale

CORTE MADERA CREEK BRIDGE (27-0008L/R)

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	2,526	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	263	CF
PLACE POLYESTER CONCRETE OVERLAY	2,526	SQFT
ACCESS OPENING, SOFFIT	3	EA
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP	SUM
STRUCTURE EXCAVATION (BRIDGE)	10	CY
STRUCTURE BACKFILL (BRIDGE)	3	CY
STRUCTURAL CONCRETE, BRIDGE	122	CY
DRILL AND BOND DOWEL	2,192	LF
DRILL AND BOND DOWEL (CHEMICAL ADHESIVE) (MODIFIED)	954	EA
JOINT SEAL (MR 1 1/2")	15	LF
BAR REINFORCING STEEL (BRIDGE)	66,350	LB
HEADED BAR REINFORCEMENT	1,469	EA
CONCRETE BARRIER (TYPE 80 MODIFIED)	1,181	LF

CORTE MADERA CREEK BRIDGE SB ON-RAMP (27-0008K)

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	1,326	SQFT
REFINISH BRIDGE DECK	1,990	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	28	CF
PLACE POLYESTER CONCRETE OVERLAY	1,326	SQFT
ACCESS OPENING, SOFFIT	7	EA
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP	SUM
STRUCTURE EXCAVATION (BRIDGE)	18	CY
STRUCTURE BACKFILL (BRIDGE)	4	CY
STRUCTURAL CONCRETE, BRIDGE	185	CY
DRILL AND BOND DOWEL	2,760	LF
DRILL AND BOND DOWEL (CHEMICAL ADHESIVE) (MODIFIED)	1,446	EA
JOINT SEAL (MR 1 1/2")	24	LF
BAR REINFORCING STEEL (BRIDGE)	97,000	LB
HEADED BAR REINFORCEMENT	2,278	EA
MINOR CONCRETE (CURB) (CY)	1.5	CY
CONCRETE BARRIER (TYPE 80 MODIFIED)	1,683	LF

CORTE MADERA CREEK BRIDGE NB ON-RAMP (27-0008S)

QUANTITIES

REFINISH BRIDGE DECK	3,780	SQFT
ACCESS OPENING, SOFFIT	3	EA
BRIDGE REMOVAL (PORTION), LOCATION C	LUMP	SUM
STRUCTURE EXCAVATION (BRIDGE)	23	CY
STRUCTURE BACKFILL (BRIDGE)	5	CY
STRUCTURAL CONCRETE, BRIDGE	243	CY
DRILL AND BOND DOWEL	4,680	LF
DRILL AND BOND DOWEL (CHEMICAL ADHESIVE) (MODIFIED)	1,908	EA
JOINT SEAL (MR 1 1/2")	15	LF
JOINT SEAL (MR 2")	6	LF
BAR REINFORCING STEEL (BRIDGE)	135,050	LB
HEADED BAR REINFORCEMENT	3,299	EA
CONCRETE BARRIER (TYPE 80 MODIFIED)	2,434	LF

CORTE MADERA CREEK BRIDGES	
BARRIER REPLACEMENT / WIDEN	
INDEX TO PLANS	

DESIGN	BY John Tjoelker	CHECKED Sam Kotawala
DETAILS	BY Carlo Cancino	CHECKED John Tjoelker
QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

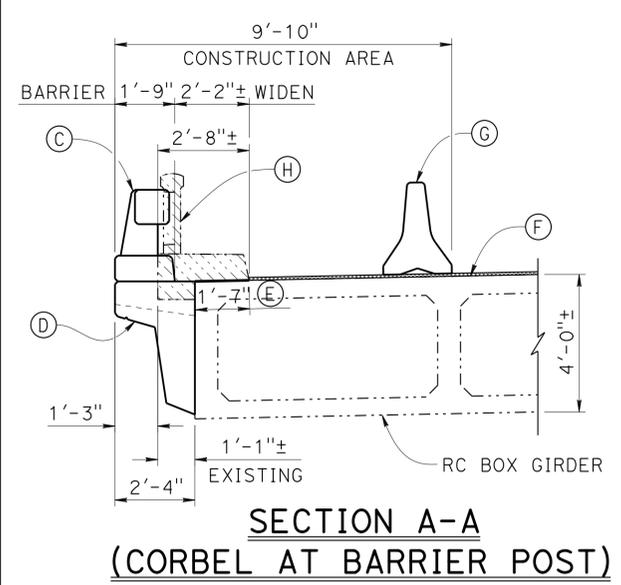
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 8

BRIDGE NO.	27-0008
POST MILE	8.47

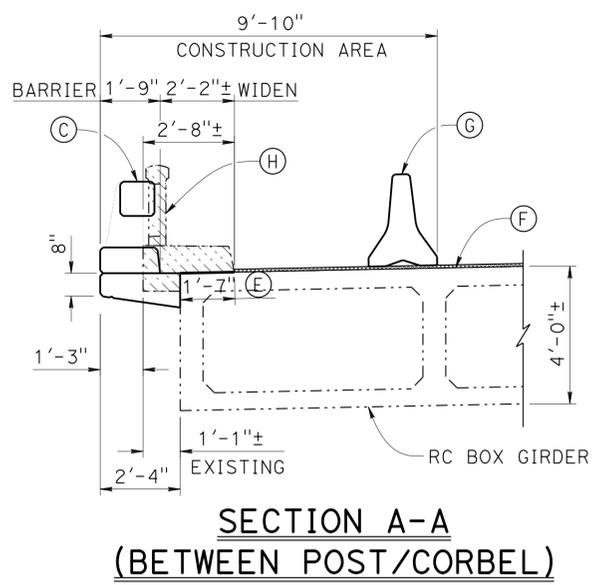
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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04-06-15
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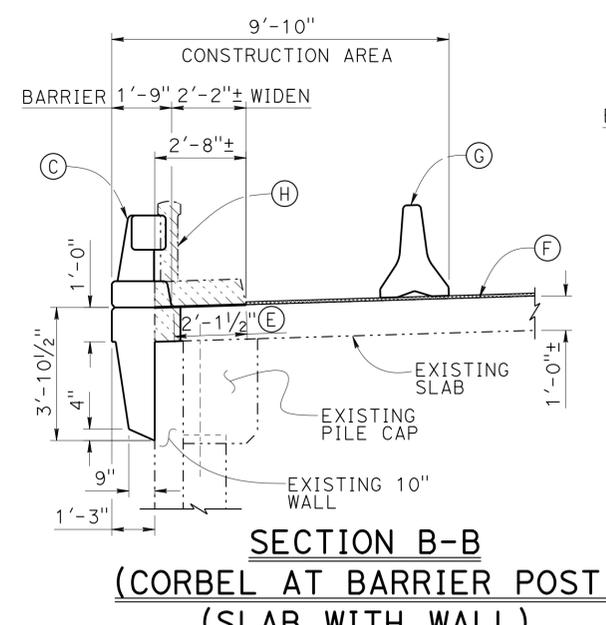
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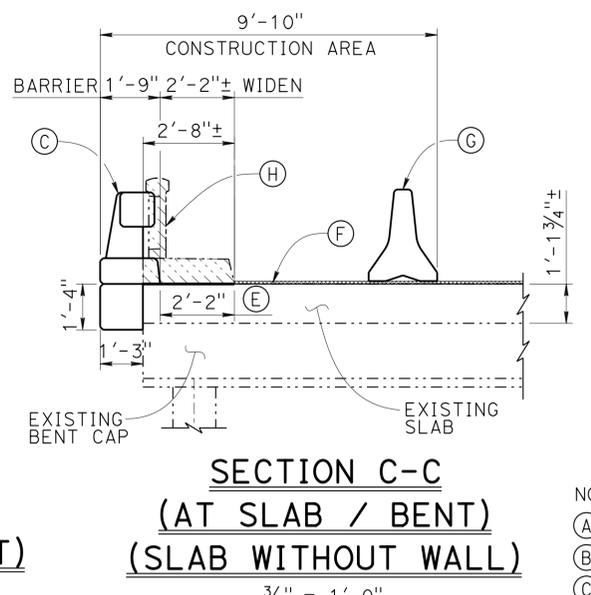
NOTE:
THIS SECTION APPLIES TO "C" LINE
Sta 126+25.75± TO Sta 135+25±



NOTE:
THIS SECTION APPLIES TO "C" LINE
Sta 126+25.75± TO Sta 135+25±



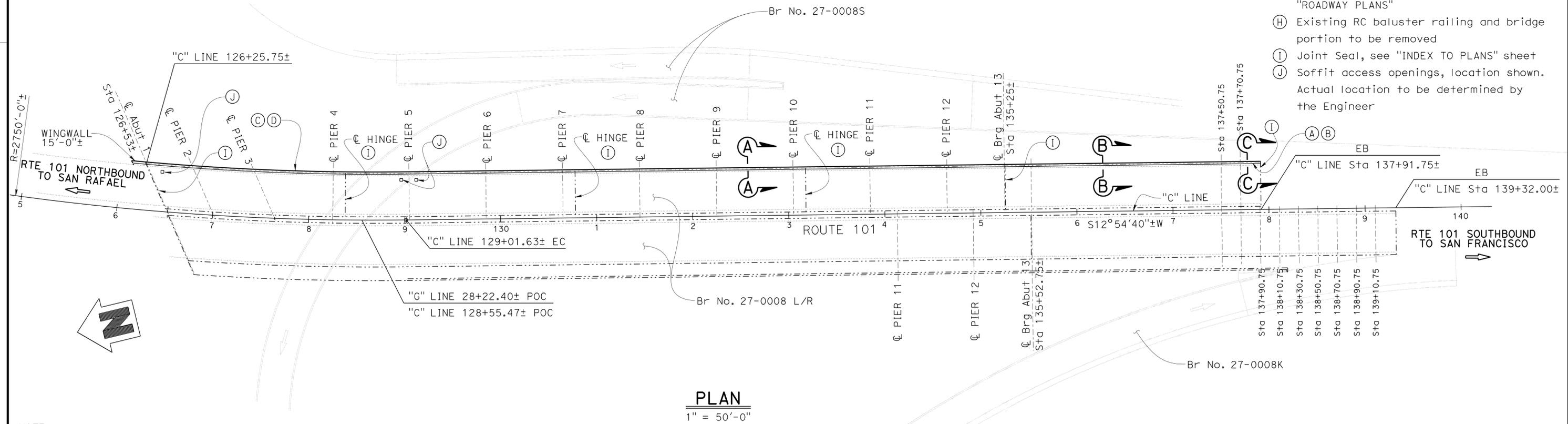
NOTE:
THIS SECTION APPLIES TO "C" LINE
Sta 135+25± TO Sta 137+50.75±
(SECTION BETWEEN POST / CORBEL NOT SHOWN)



NOTE:
THIS SECTION APPLIES TO "C" LINE
Sta 137+50± TO Sta 137+91.75±

- LEGEND:
- Indicates existing
 - Indicates new construction
 - ▨ Indicates Bridge removal (Portion)
 - ▩ Existing polyester concrete overlay
 - Soffit Acces Opening

- NOTES:
- (A) Paint "CORTE MADERA CREEK BRIDGE"
 - (B) Paint "27-0008"
 - (C) Concrete Barrier Type 80 (Mod)
 - (D) New concrete corbel
 - (E) Prepare concrete deck surface, furnish and place 1/4" polyester concrete overlay, slope to match existing
 - (F) Existing top of bridge deck with 1/4" polyester concrete overlay
 - (G) Temporary Railing Type "K", see "ROADWAY PLANS"
 - (H) Existing RC baluster railing and bridge portion to be removed
 - (I) Joint Seal, see "INDEX TO PLANS" sheet
 - (J) Soffit access openings, location shown. Actual location to be determined by the Engineer

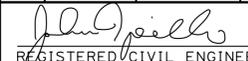
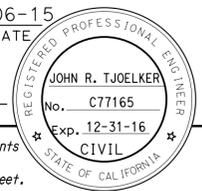


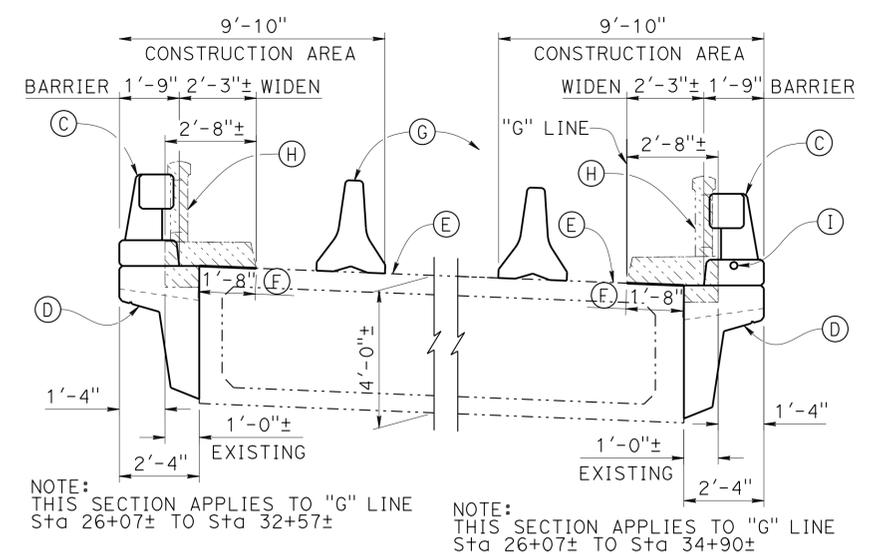
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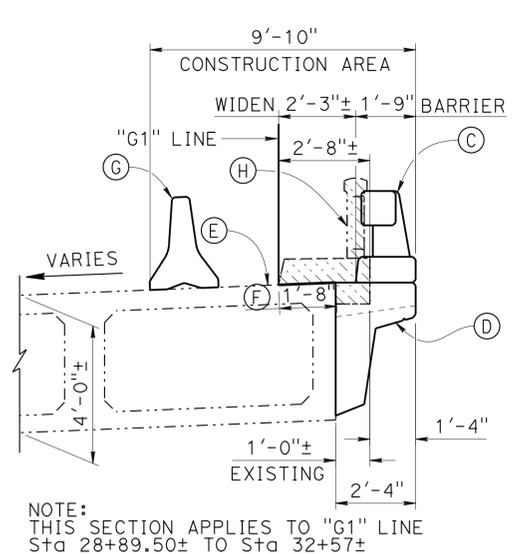
DESIGN BY John Tjoelker		CHECKED Sam Kotalawala	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO. 27-0008R/L	CORTE MADERA CREEK BRIDGES BARRIER REPLACEMENT / WIDEN STRUCTURE PLAN NO. 1	
DETAILS BY Carlo Cancino		CHECKED John Tjoelker			POST MILE 8.47		
QUANTITIES BY Keith Nakaoka		CHECKED Adam Menke					

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 UNIT: 3593 PROJECT NUMBER & PHASE: 0412000480, 1 CONTRACT NO.: 04-4G4604
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 03-05-15, 03-26-15 SHEET 3 OF 22

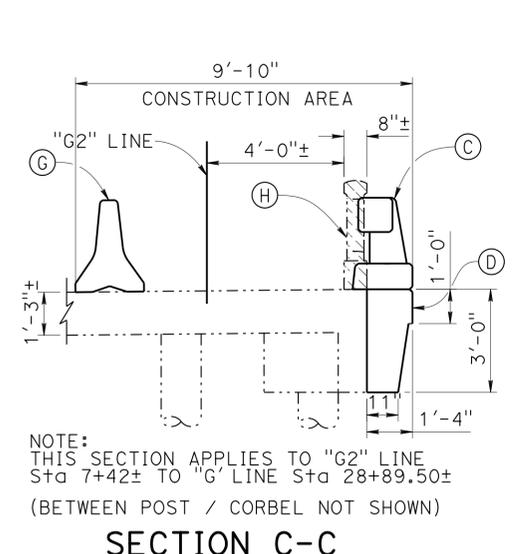
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PLANS APPROVAL DATE 4-27-15					
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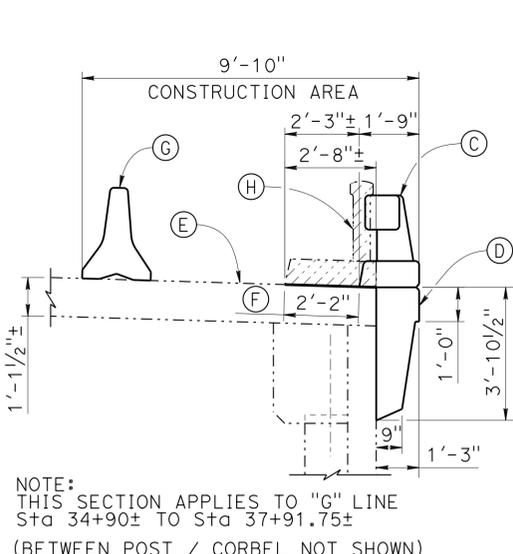
SECTION A-A
(CORBEL AT BARRIER POST)
3/8" = 1'-0"



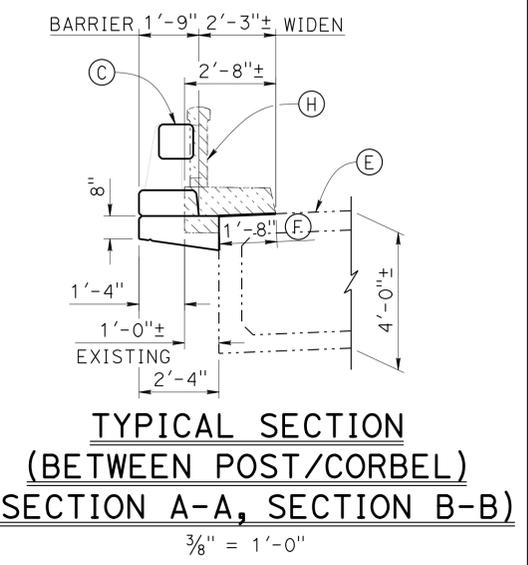
SECTION B-B
(CORBEL AT BARRIER POST)
3/8" = 1'-0"



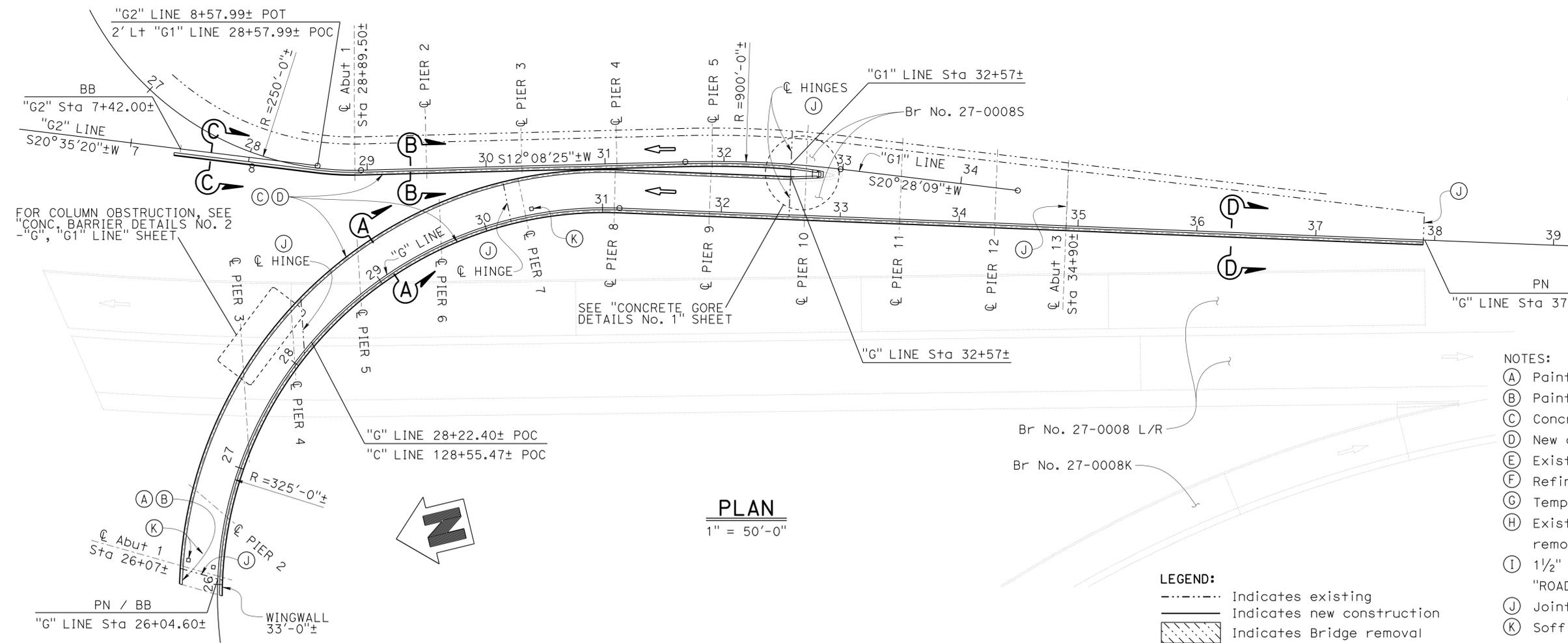
SECTION C-C
(CORBEL AT BARRIER POST)
3/8" = 1'-0"



SECTION D-D
(CORBEL AT BARRIER POST)
3/8" = 1'-0"



TYPICAL SECTION
(BETWEEN POST/CORBEL)
(SECTION A-A, SECTION B-B)
3/8" = 1'-0"



PLAN
1" = 50'-0"

- NOTES:
- (A) Paint "CORTE MADERA CREEK OFF-RAMP"
 - (B) Paint "27-0008S"
 - (C) Concrete Barrier Type 80 (Mod)
 - (D) New concrete corbel
 - (E) Existing top of bridge deck and slope to match
 - (F) Refinish bridge deck
 - (G) Temporary Railing Type "K", see "ROADWAY PLANS"
 - (H) Existing RC baluster railing and bridge removal (portion)
 - (I) 1 1/2" total 1 conduit and electroliers, see "ROADWAY PLANS"
 - (J) Joint Seal, see "INDEX TO PLANS" sheet
 - (K) Soffit access openings, location shown. Actual location to be determined by the Engineer

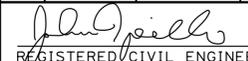
- LEGEND:
- Indicates existing
 - Indicates new construction
 - ▨ Indicates Bridge removal
 - Soffit Acces Opening

NOTE:
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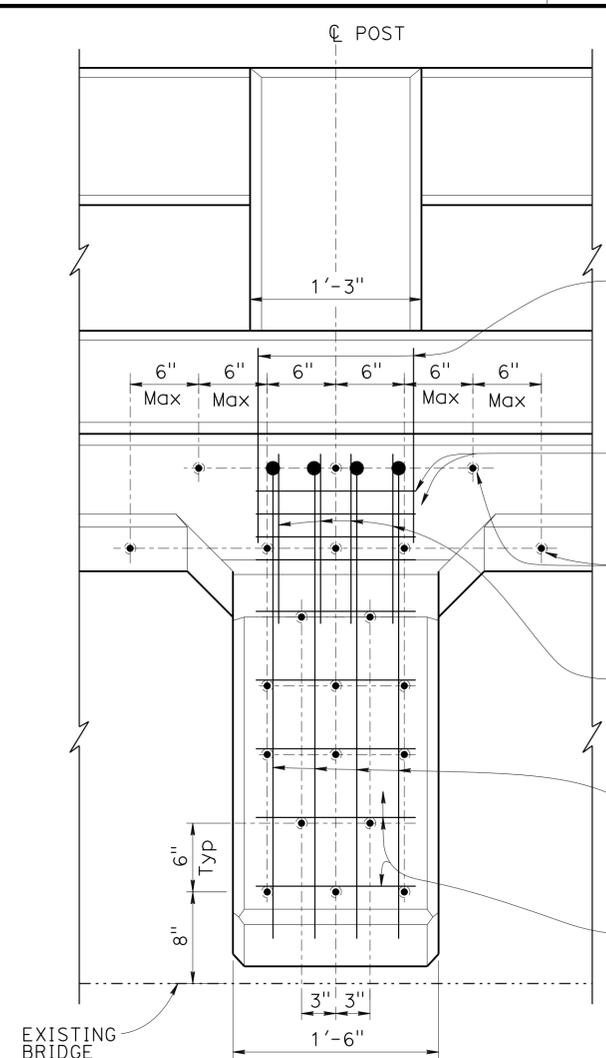
NOTE:
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DESIGN	BY John Tjoelker	CHECKED Sam Kotawala	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO.	27-0008S
DETAILS	BY Carlo Cancino	CHECKED John Tjoelker			POST MILE	8.47
QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke				

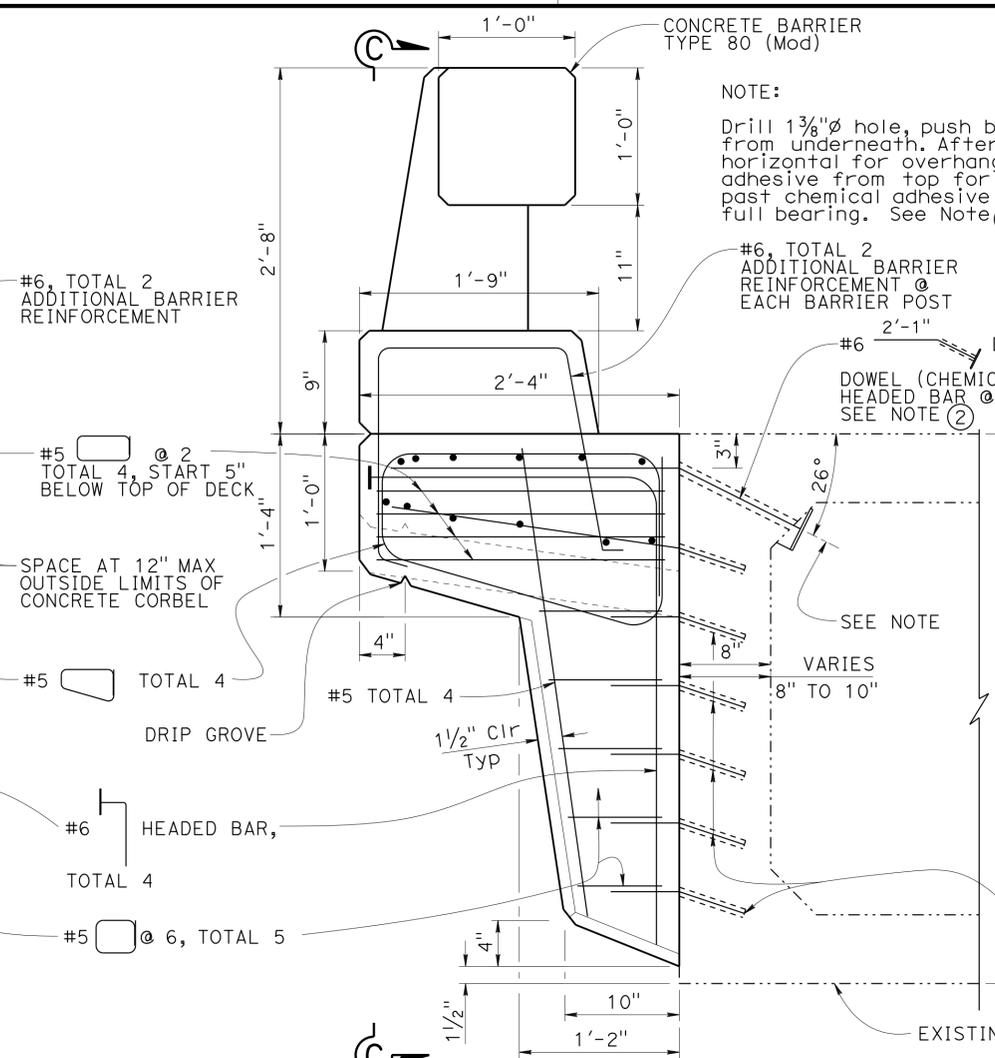
CORTE MADERA CREEK BRIDGES
BARRIER REPLACEMENT / WIDEN
STRUCTURE PLAN NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	108	149
 REGISTERED CIVIL ENGINEER			DATE	04-06-15 4-27-15 PLANS APPROVAL DATE	
JOHN R. TJOELKER No. C77165 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA			RSP SEE B11-60		

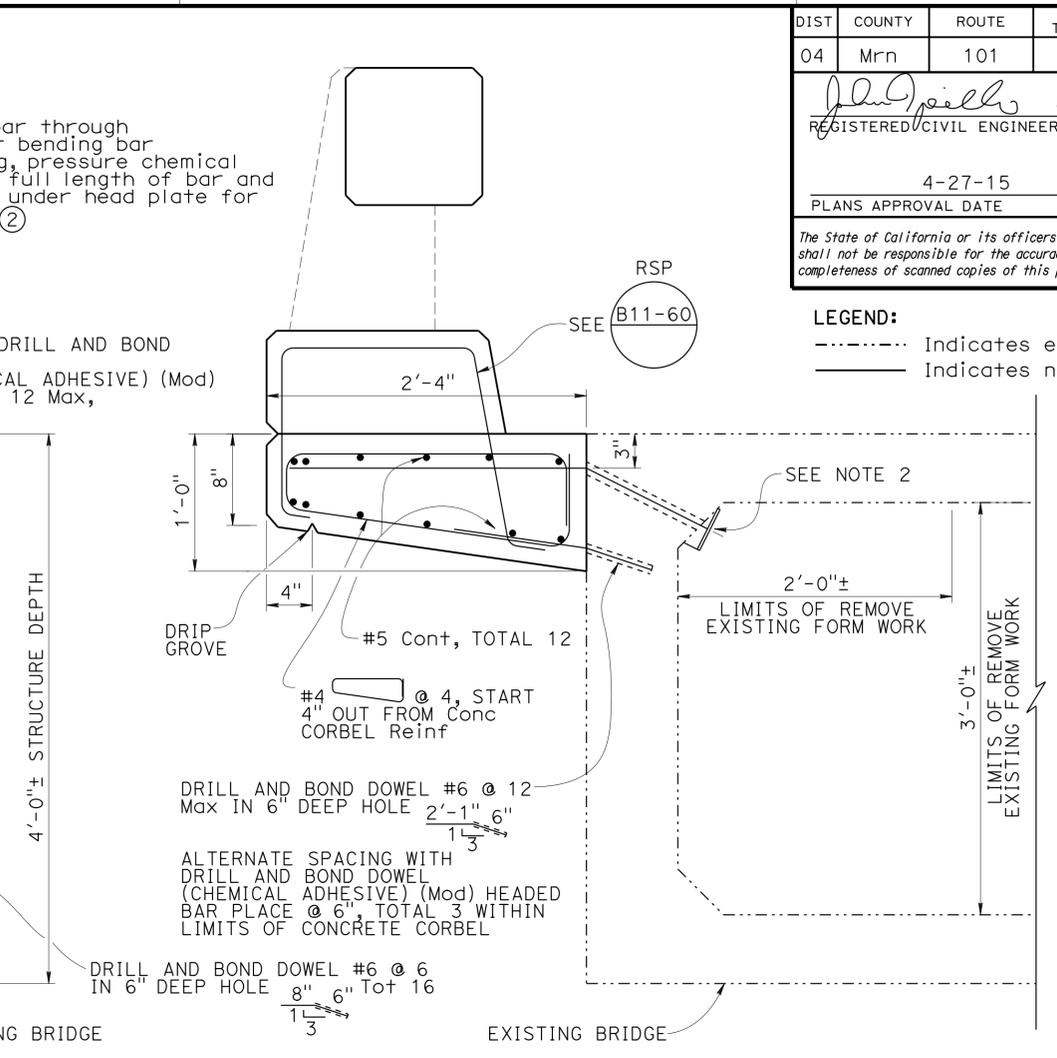
LEGEND:
 - - - - - Indicates existing
 _____ Indicates new construction



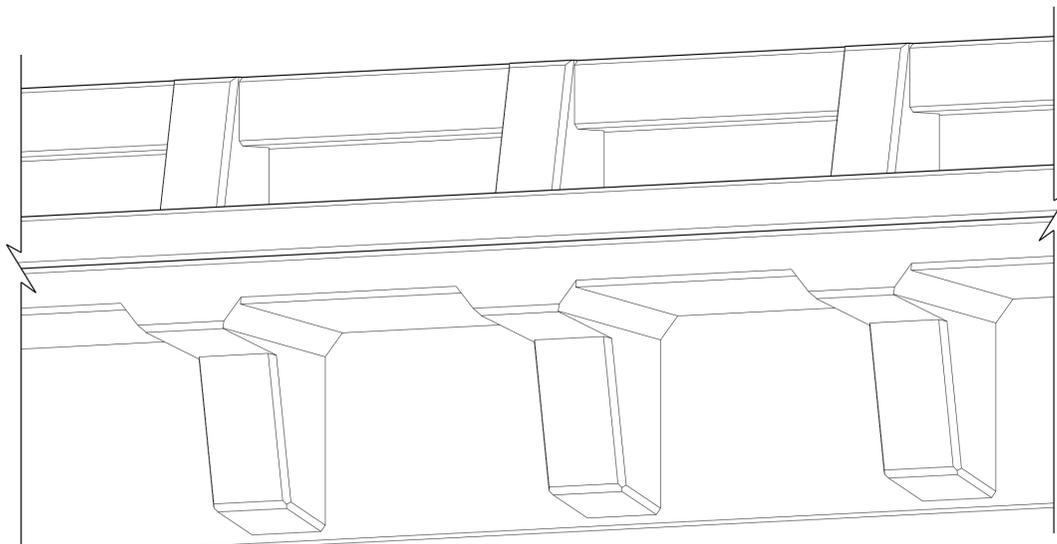
VIEW C-C
 1/2" = 1'-0"



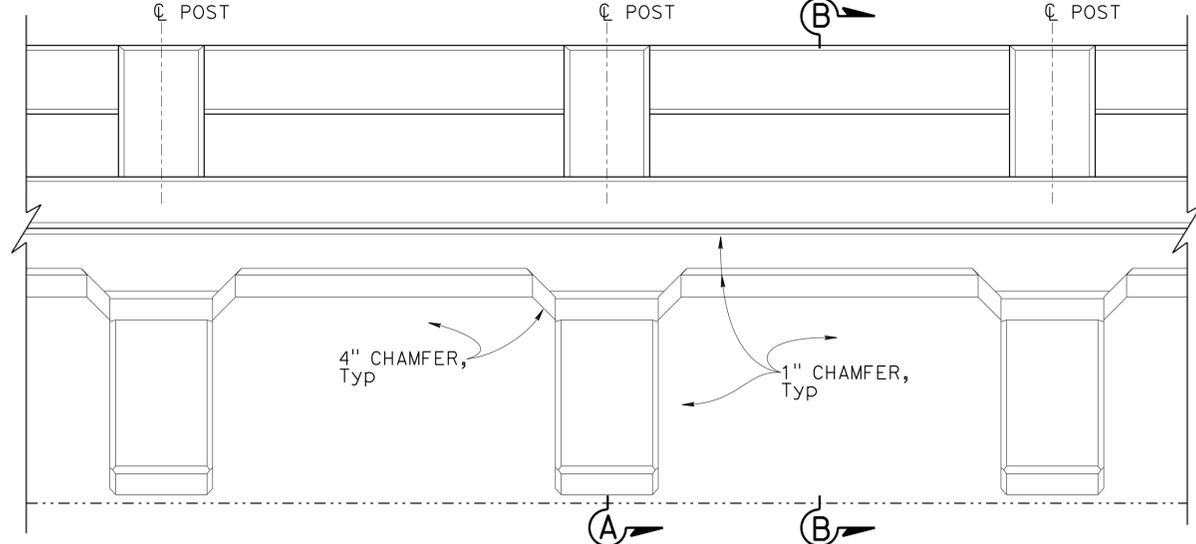
SECTION A-A
 1/2" = 1'-0"



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



PART 3D VIEW
 No Scale



PART TYPICAL ELEVATION
 3/4" = 1'-0"

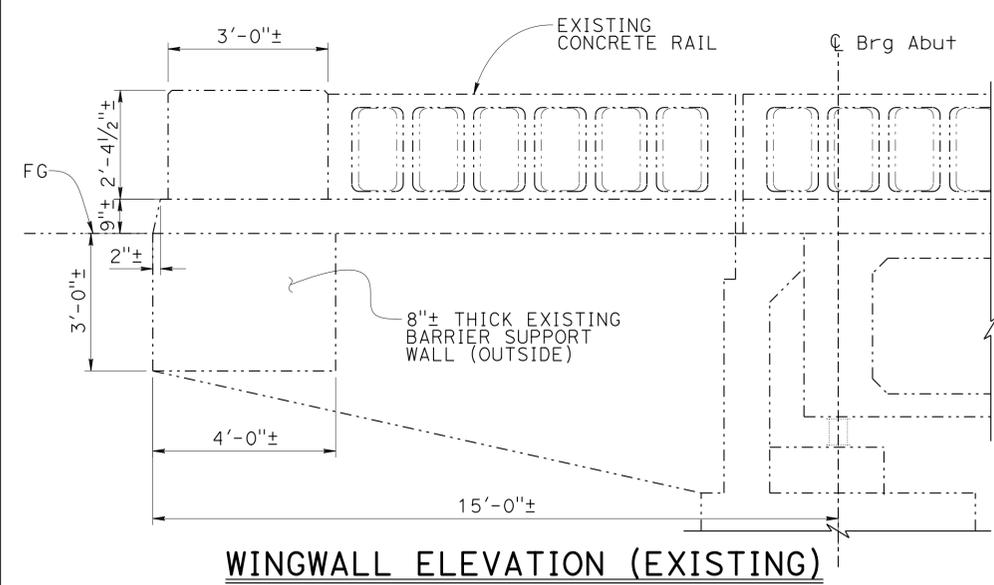
- NOTES:
- For concrete barrier reinforcement not shown and post spacing, see RSP B11-60
 - When drilling into solid section of concrete or 8" chamfer (as noted for Bridge No. 27-0008K) use drill and bond dowel (chemical adhesive) #6 non-headed bar into 12" deep hole.

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

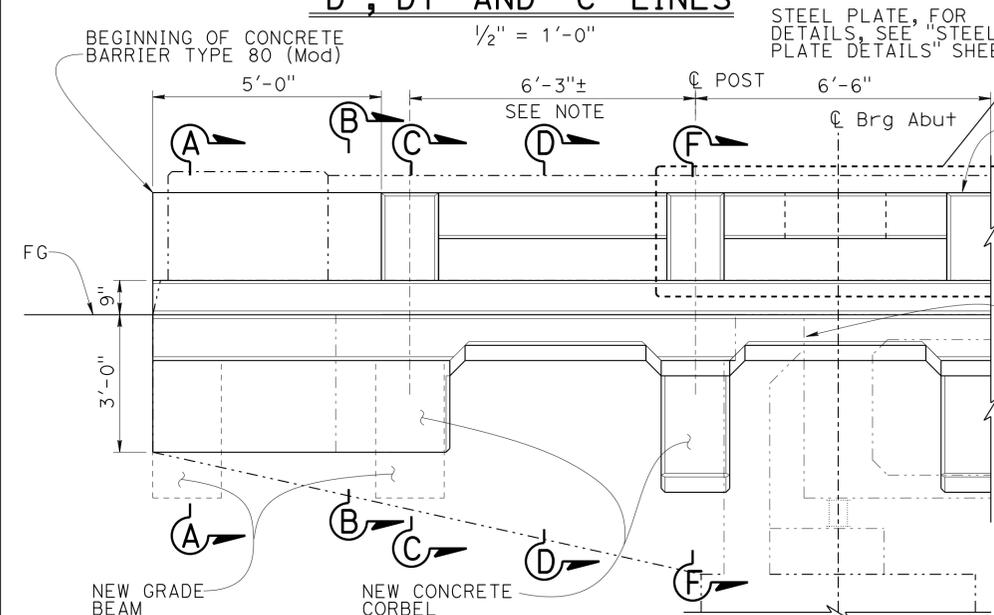
DESIGN BY John Tjoelker CHECKED Sam Kotawala		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO.	CORTE MADERA CREEK BRIDGES		
DETAILS BY E. Hallstrom/C. Cancino CHECKED John Tjoelker				27-0008	BARRIER REPLACEMENT / WIDEN		
QUANTITIES BY Keith Nakaoka CHECKED Adam Menke				POST MILE 8.47	CONCRETE CORBELS DETAILS		
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			UNIT: 3593 PROJECT NUMBER & PHASE: 0412000480, 1	CONTRACT NO.: 04-4G4604	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 03-05-15 08-18-15 04-21-15	SHEET 6 OF 22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	109	149

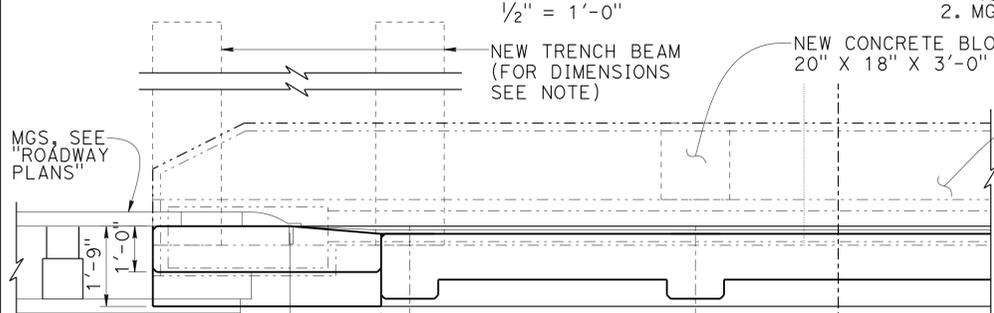
DATE	04-06-15
PLANS APPROVAL DATE	4-27-15



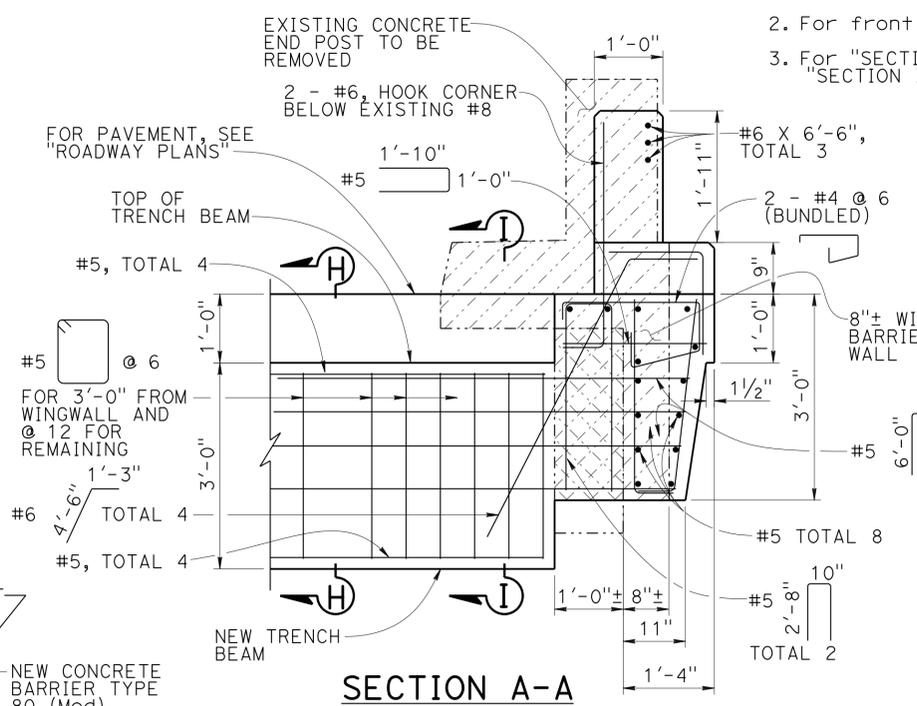
WINGWALL ELEVATION (EXISTING)
 "D", "D1" AND "C" LINES
 1/2" = 1'-0"



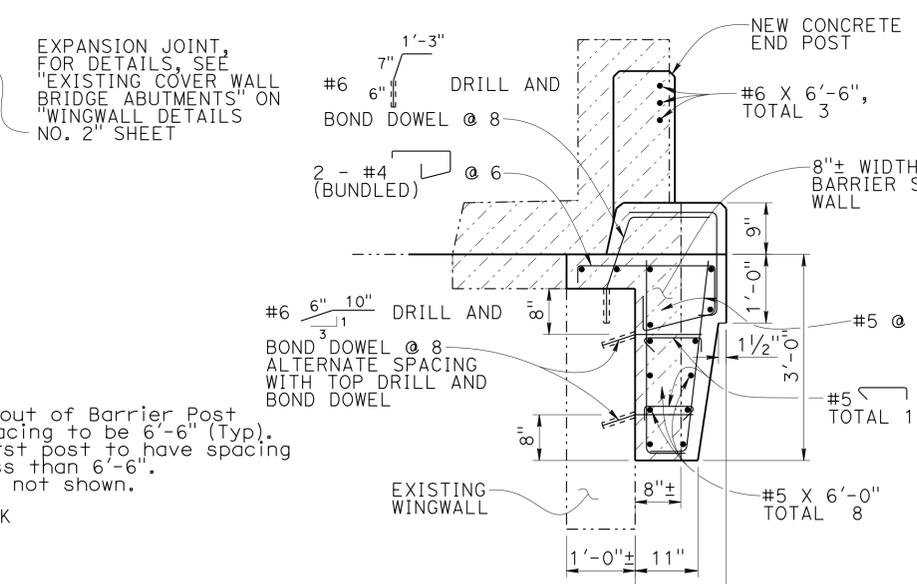
WINGWALL ELEVATION (RECONSTRUCTION)
 "D", "D1" AND "C" LINES
 1/2" = 1'-0"



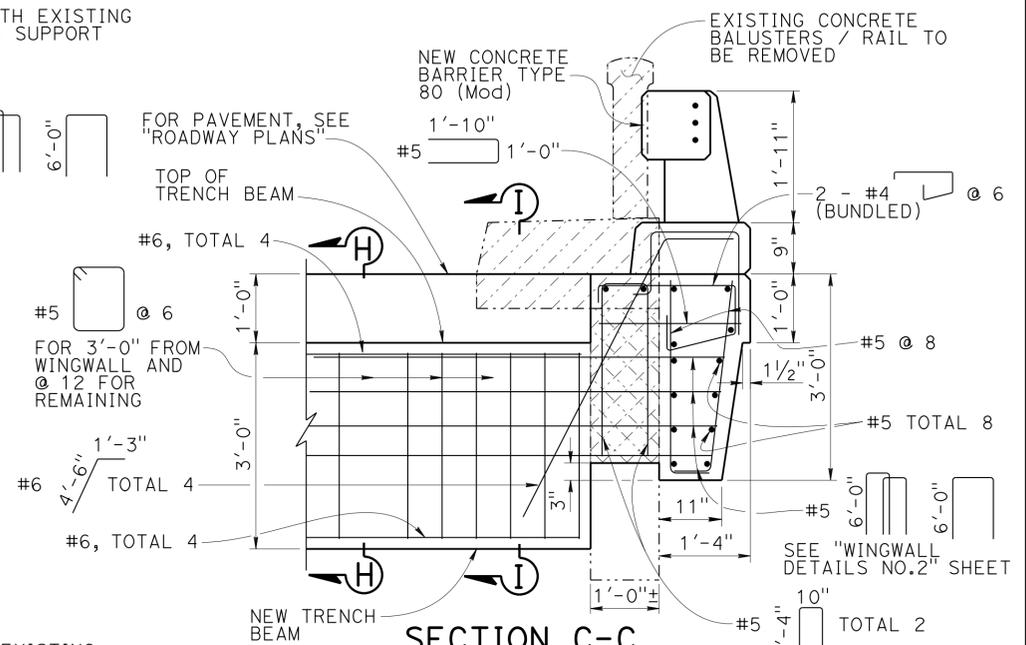
PLAN
 "D", "D1" AND "C" LINES
 1/2" = 1'-0"



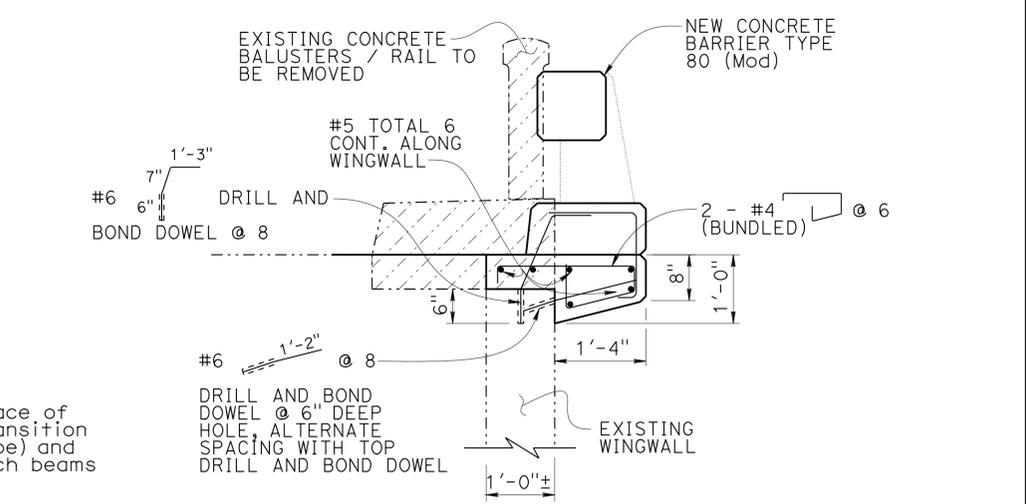
SECTION A-A
 3/4" = 1'-0"



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



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



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

NOTES:
 1. For barrier reinforcement not shown, see B11-60
 2. For front face of barrier transition, see "SECTION F-F", "SECTION H-H" and "SECTION I-I", see "WINGWALL DETAILS NO. 2" sheet.

LEGEND:
 - - - - - Indicates existing
 _____ Indicates new construction
 [Hatched] Indicates Bridge removal (Portion)
 [Cross-hatched] Indicates concrete removal and replace and existing reinforcement to remain

EXPANSION JOINT, FOR DETAILS, SEE "EXISTING COVER WALL BRIDGE ABUTMENTS" ON "WINGWALL DETAILS NO. 2" SHEET

NOTES:
 1. Layout of Barrier Post spacing to be 6'-6" (Typ). First post to have spacing less than 6'-6".
 2. MGS not shown.

NOTE:
 TRENCH BEAM DIMENSIONS;
 FOR "C" LINE = 18" X 36" X 17'-0"
 FOR "D" AND "D1" LINES = 18" X 36" X 10'-0"

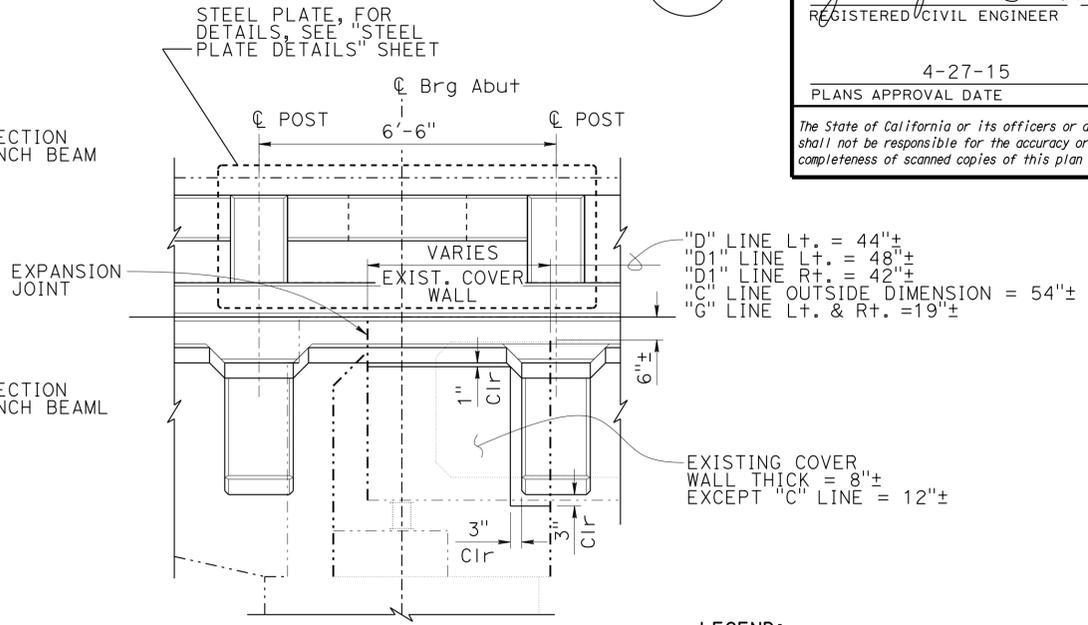
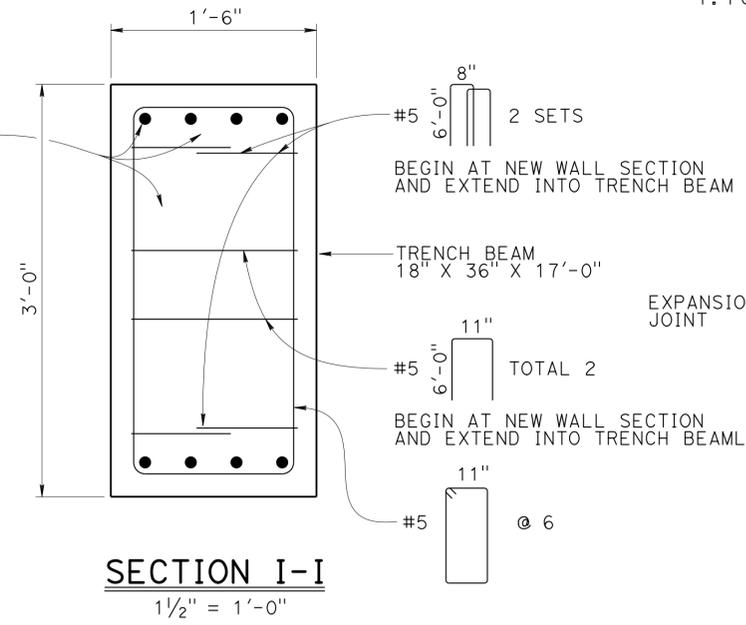
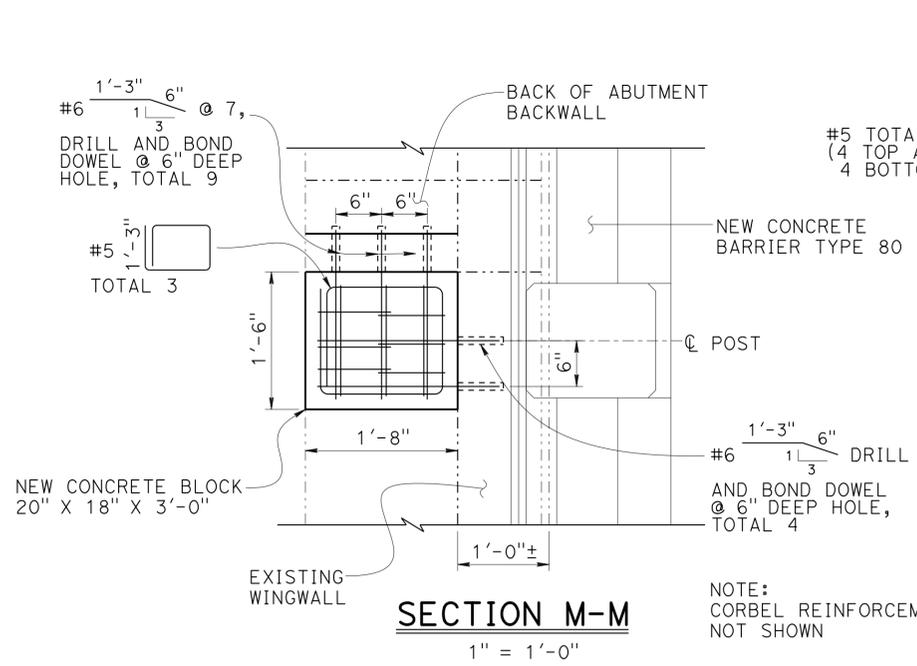
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3593 PROJECT NUMBER & PHASE: 0412000480, 1	CONTRACT NO.: 04-4G4604	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 03-05-15 03-25-15 04-16-15	SHEET 7 OF 22
DESIGN BY John Tjoelker CHECKED Sam Kotalawala	DETAILS BY Carlo Cancino CHECKED John Tjoelker	QUANTITIES BY Keith Nakaoka CHECKED Adam Menke	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO. 27-0008 POST MILE 8.47	CORTE MADERA CREEK BRIDGES BARRIER REPLACEMENT / WIDEN WINGWALL DETAILS NO. 1		

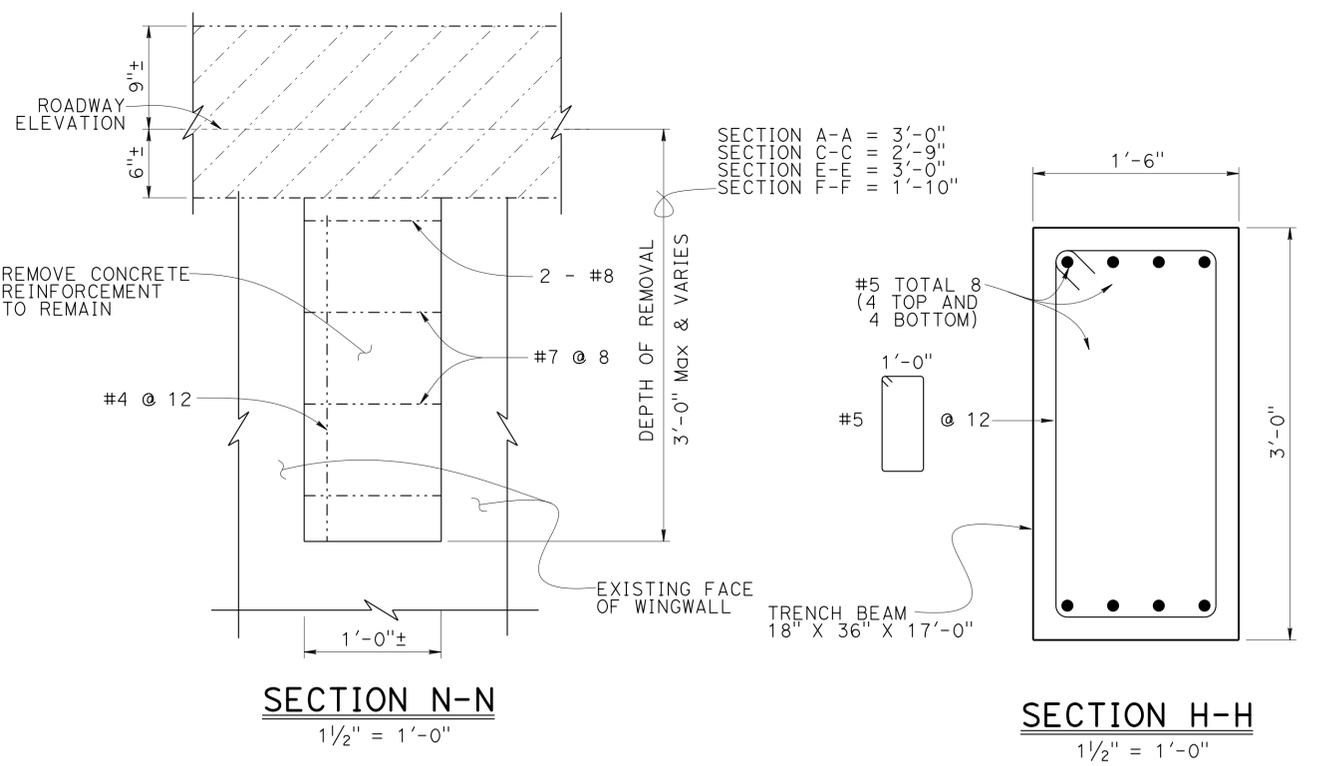
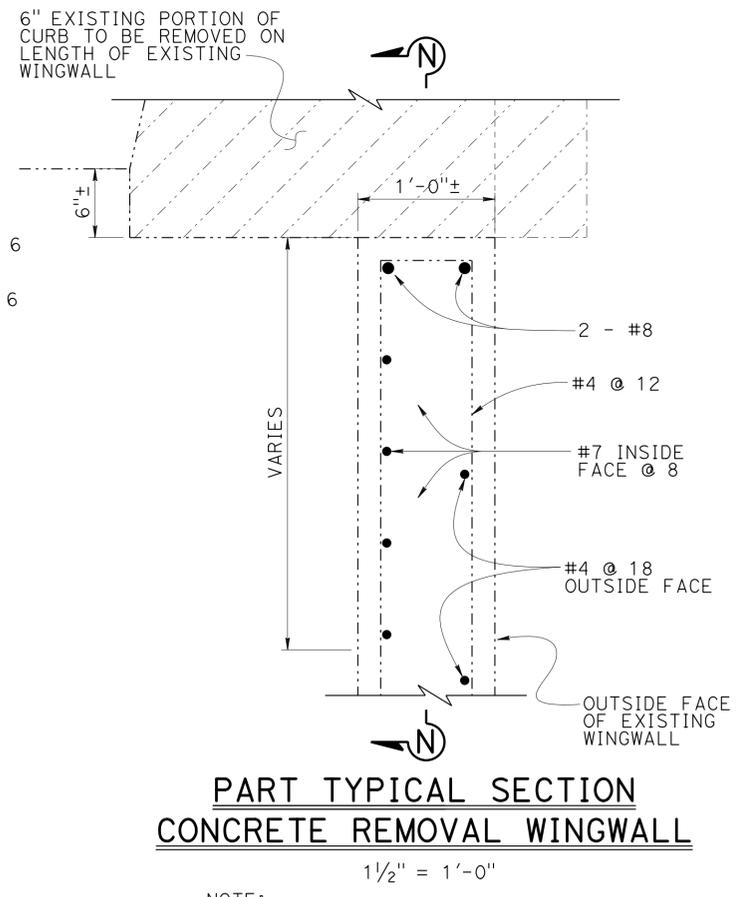
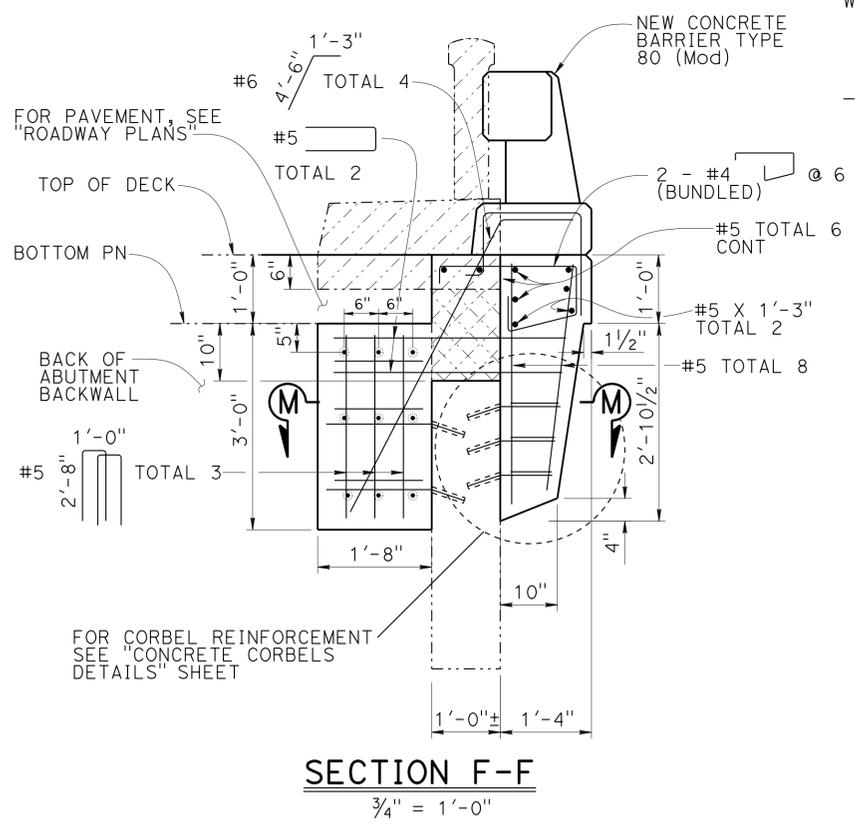
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	110	149

04-06-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE
 JOHN R. TJOELKER
 No. C77165
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

NOTE:
1. For concrete barrier reinforcement, see RSP B11-60.



LEGEND:
 - - - - - Indicates existing
 _____ Indicates new construction
 [Hatched] Indicates Bridge removal (Portion)
 [Cross-hatched] Indicates concrete removal and replace and existing reinforcement to remain



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

NOTE:
EXISTING WINGWALL REINFORCEMENT TO REMAIN IN PLACE

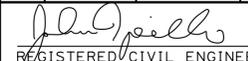
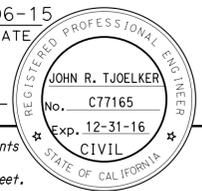
DESIGN	BY John Tjoelker	CHECKED Sam Kotawala
DETAILS	BY Carlo Cancino	CHECKED John Tjoelker
QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

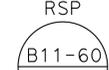
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 8

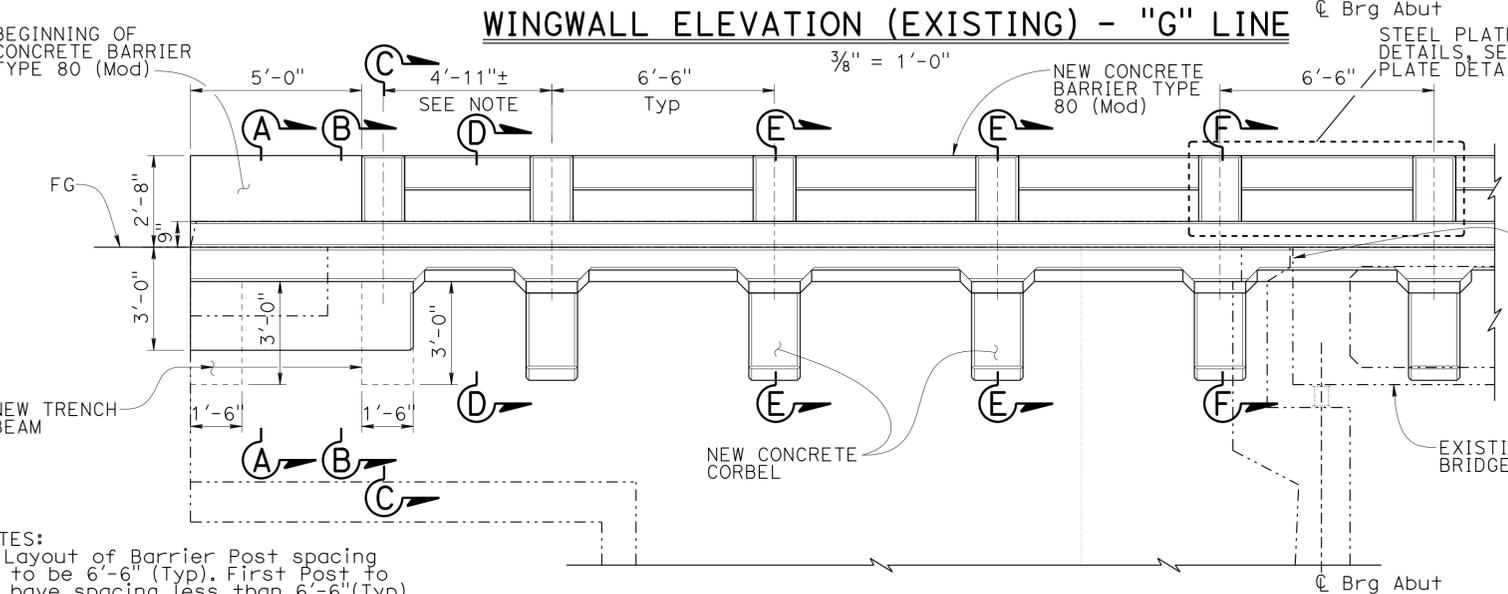
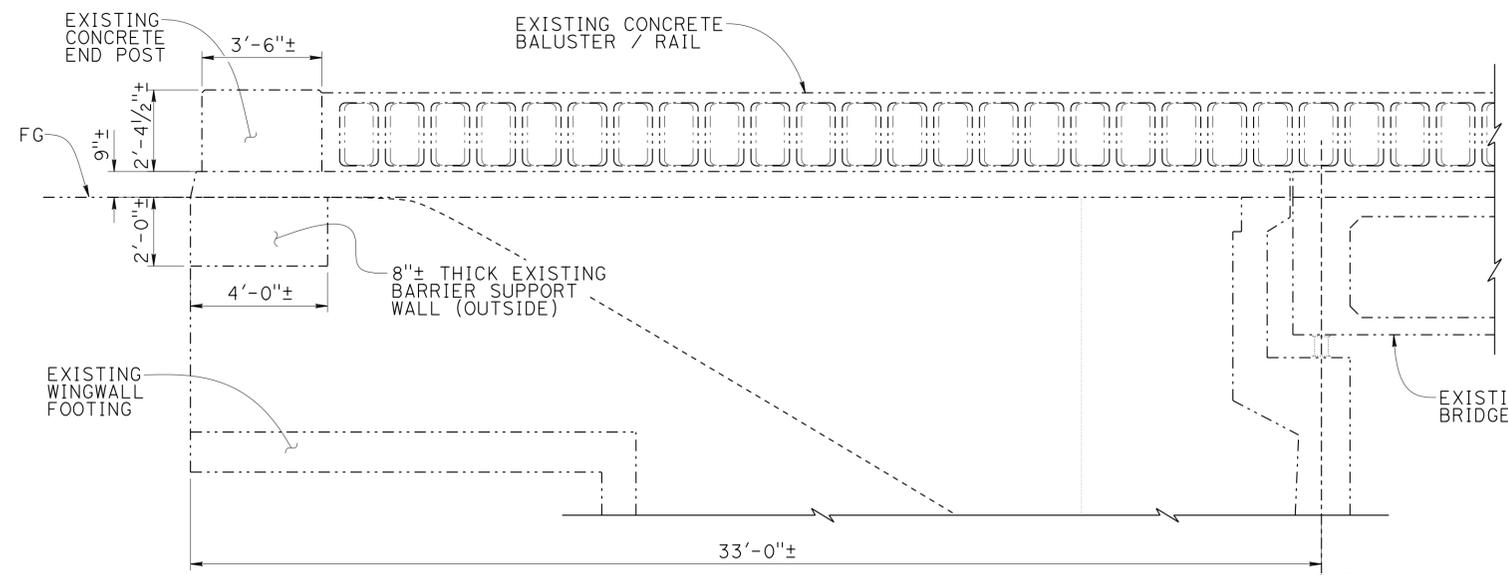
BRIDGE NO. 27-0008
POST MILE 8.47

CORTE MADERA CREEK BRIDGES
BARRIER REPLACEMENT / WIDEN
WINGWALL DETAILS NO. 2

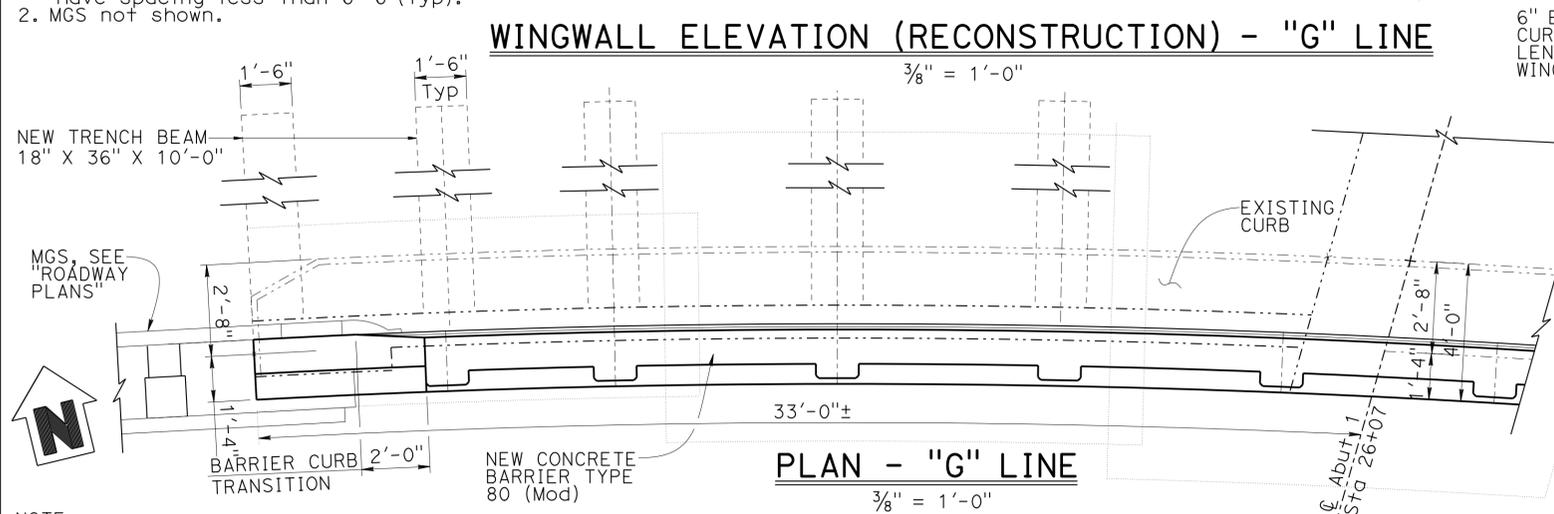
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	111	149
 REGISTERED CIVIL ENGINEER			04-06-15 DATE		
4-27-15 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

- LEGEND:**
- Indicates existing
 - Indicates new construction
 - ▨ Indicates Bridge removal (Portion)
 - ▩ Indicates concrete removal and replace and existing reinforcement to remain

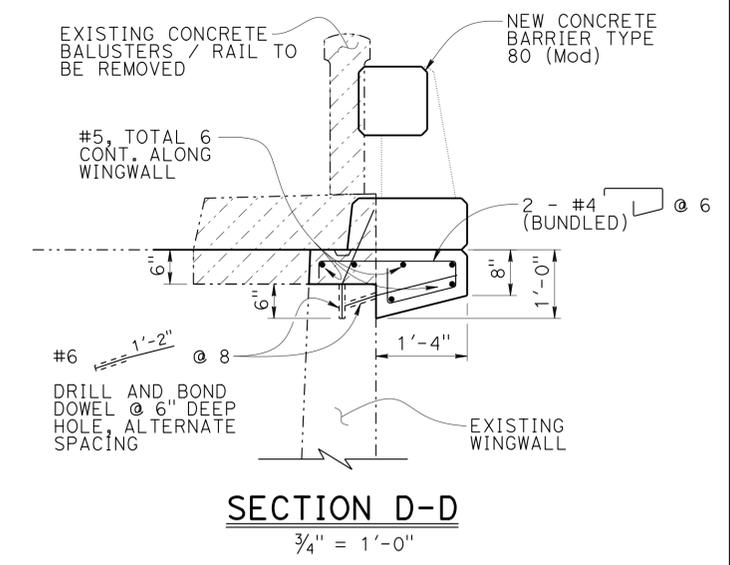
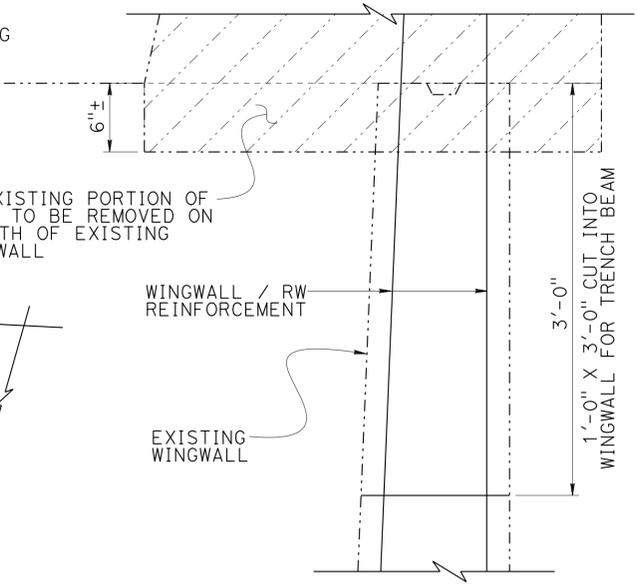
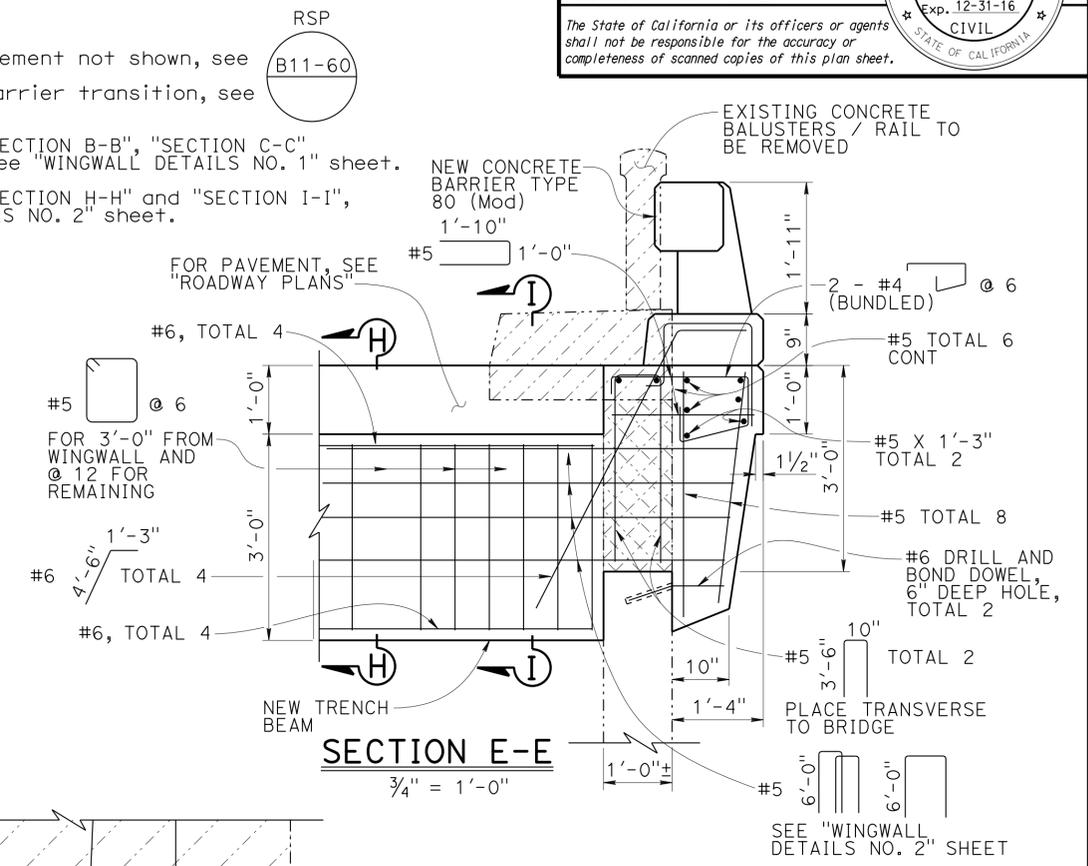
- NOTES:**
- For barrier reinforcement not shown, see  B11-60
 - For front face of barrier transition, see  B11-60
 - For "SECTION A-A", "SECTION B-B", "SECTION C-C" and "SECTION D-D", see "WINGWALL DETAILS NO. 1" sheet.
 - For "SECTION F-F", "SECTION H-H" and "SECTION I-I", see "WINGWALL DETAILS NO. 2" sheet.



- NOTES:**
- Layout of Barrier Post spacing to be 6'-6" (Typ). First Post to have spacing less than 6'-6" (Typ).
 - MGS not shown.



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



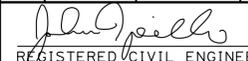
DESIGN	BY John Tjoelker	CHECKED Sam Kotalawala
DETAILS	BY Carlo Cancino	CHECKED John Tjoelker
QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke

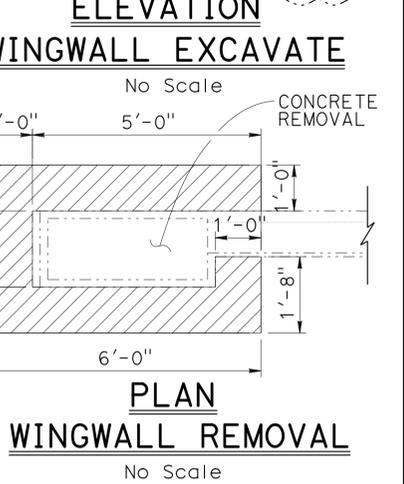
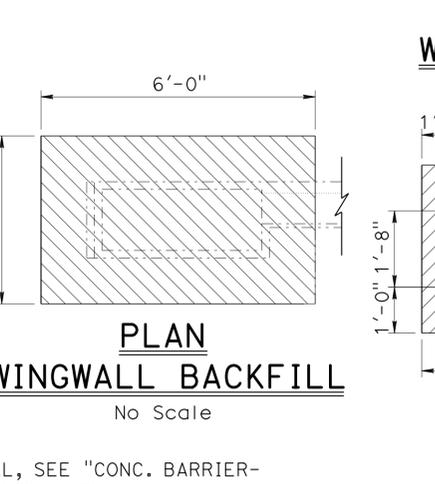
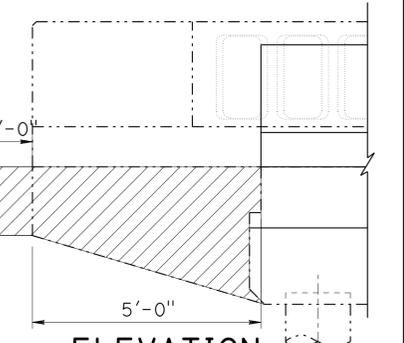
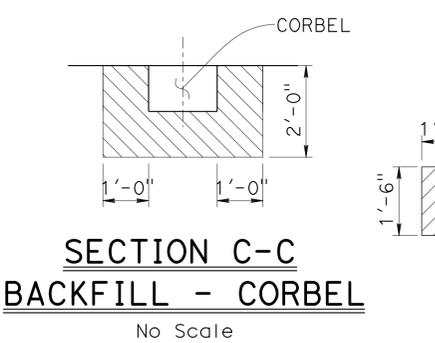
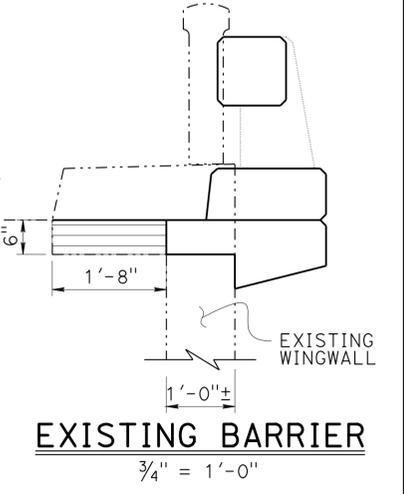
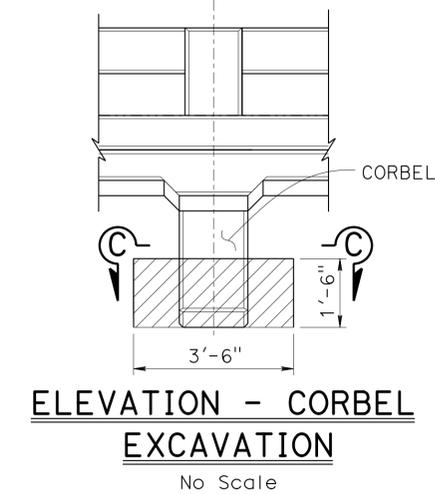
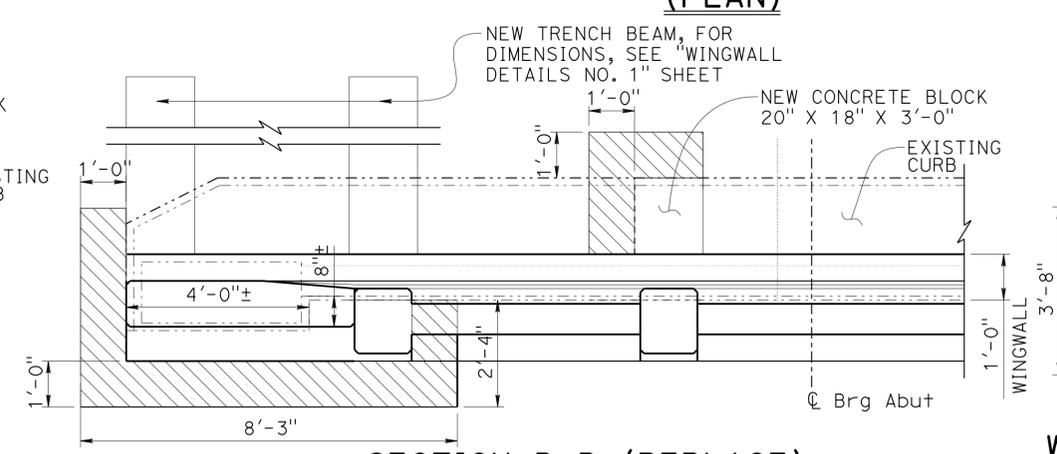
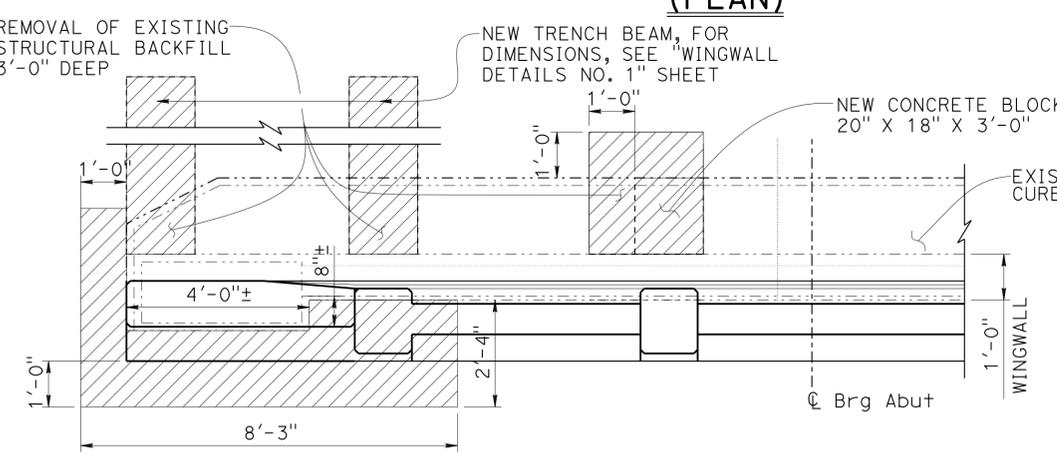
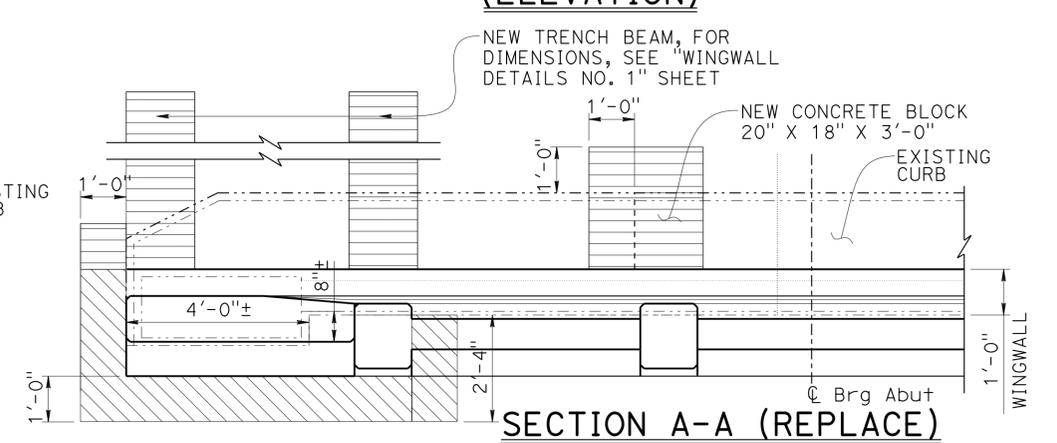
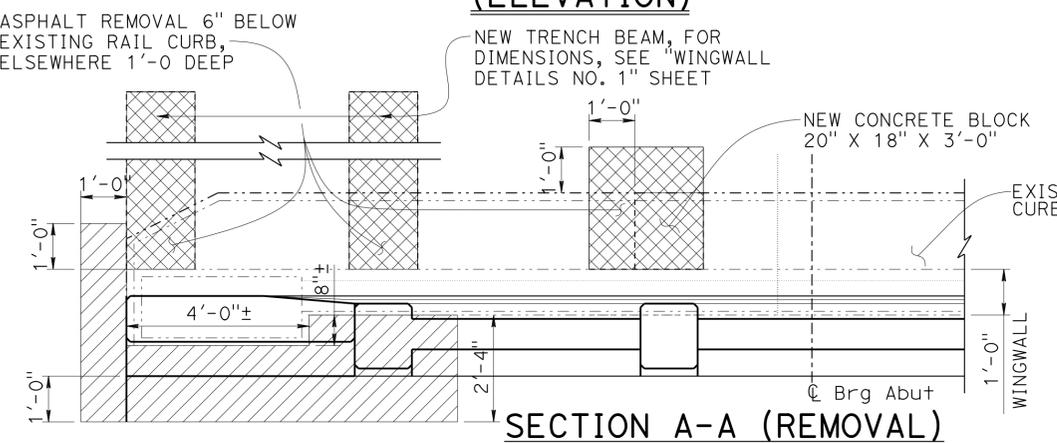
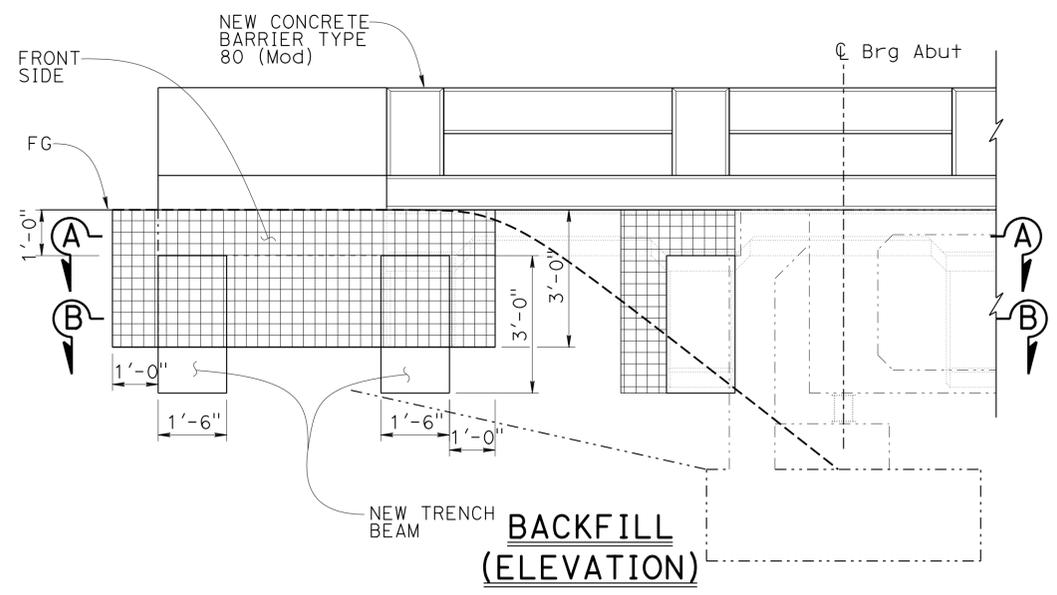
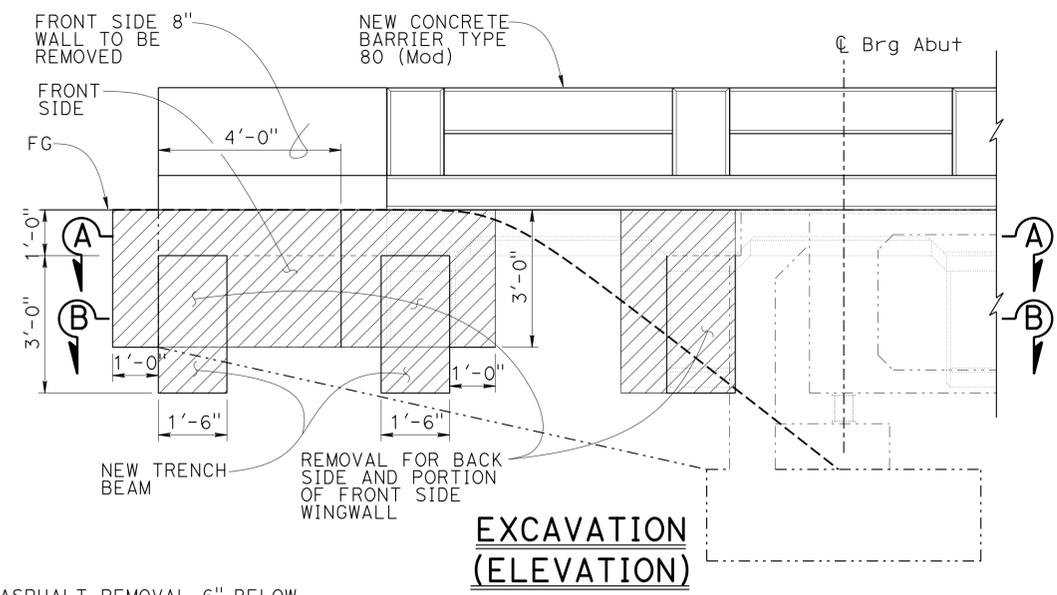
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 8

BRIDGE NO.	27-0008S
POST MILE	8.47

**CORTE MADERA CREEK BRIDGES
BARRIER REPLACEMENT / WIDEN
WINGWALL DETAILS NO. 3**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	112	149
 REGISTERED CIVIL ENGINEER			DATE		
			4-27-15	PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



LEGEND:

	Indicates structure excavation		Indicates replace
	Indicates roadway removal, see "ROADWAY PLANS"		Indicates structure backfill
	Indicates new pavement, see "ROADWAY PLANS"		

LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL

No Scale

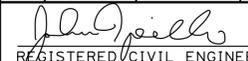
NOTE:
 * FOR WINGWALL REMOVAL, SEE "CONC. BARRIER-SLAB WITHOUT WALL "C" LINE" SHEET.
 ** FOR CORBEL EXCAVATION, SEE "CONCRETE BARRIER-SLAB "G2" LINE" SHEET

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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		DESIGN BY John Tjoelker CHECKED BY Sam Kotawala	DETAILS BY Carlo Cancino CHECKED BY John Tjoelker	QUANTITIES BY Keith Nakaoka CHECKED BY Adam Menke	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO. 27-0008S POST MILE 8.47	CORTE MADERA CREEK BRIDGES BARRIER REPLACEMENT / WIDEN EXCAVATION AND BACKFILL	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES: 03-05-15, 03-25-15	SHEET 10 OF 22
--	--	--	--	--	---	---	---------------------------------------	---	---	------------------------------------	----------------

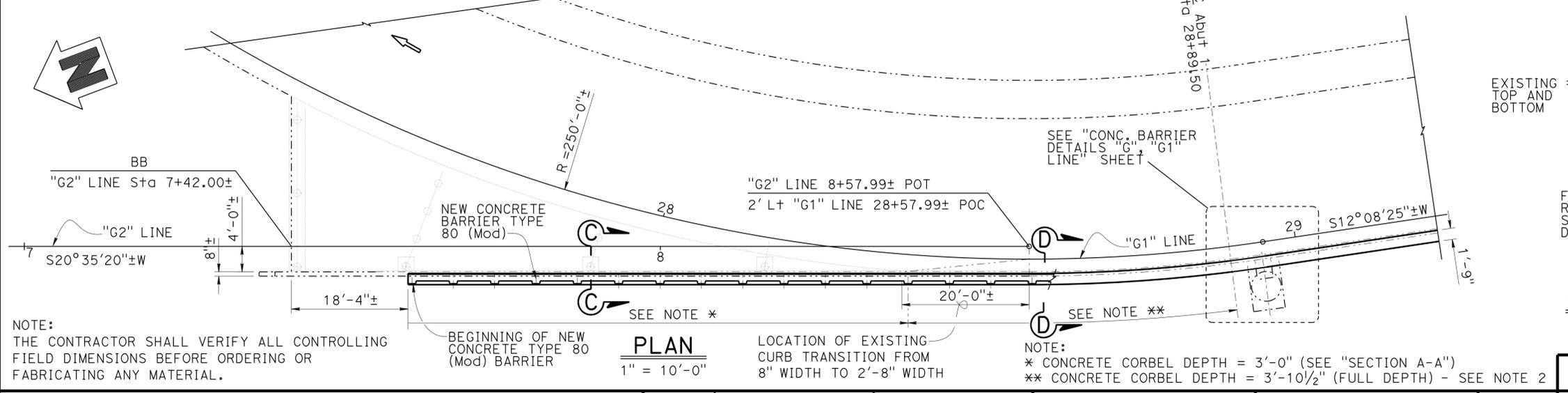
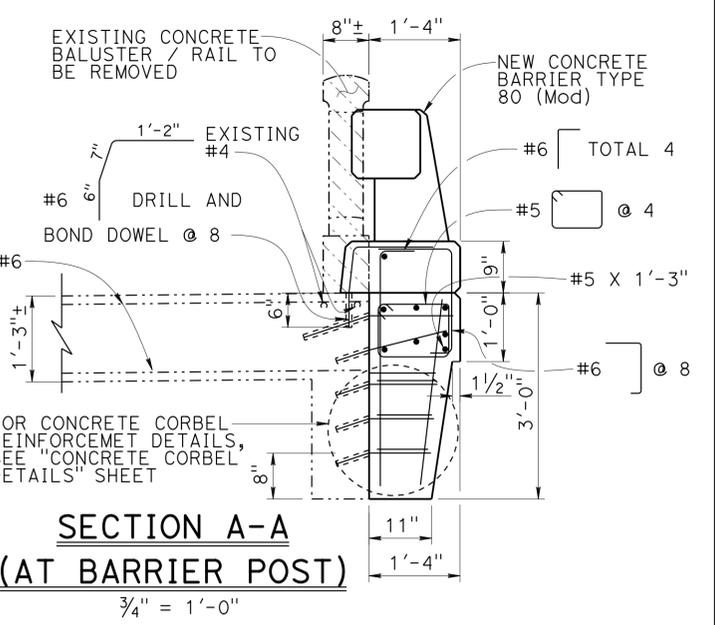
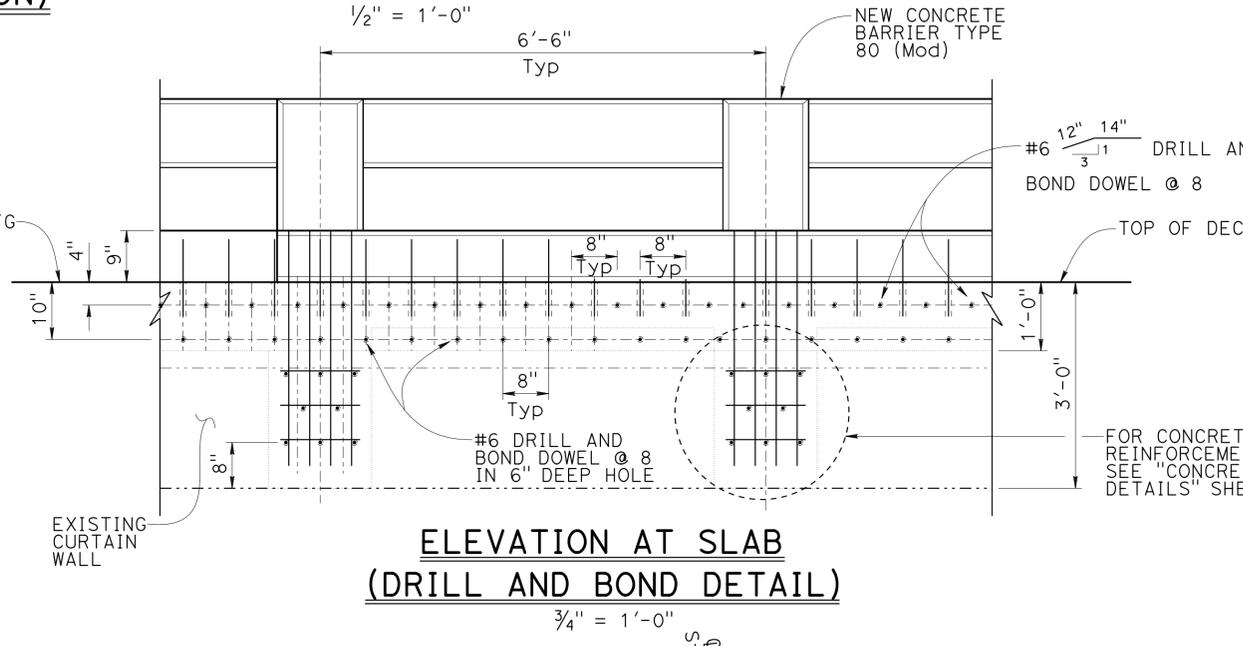
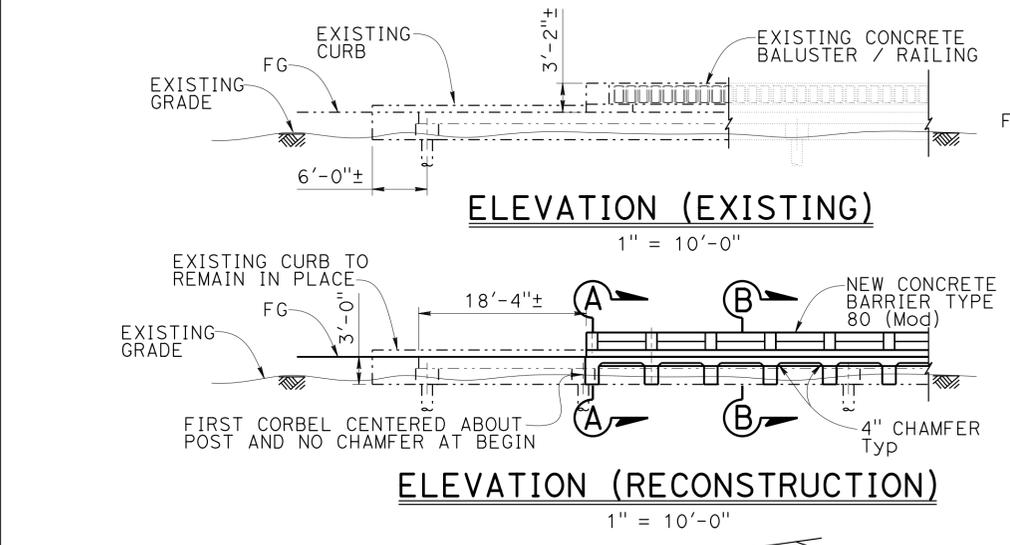
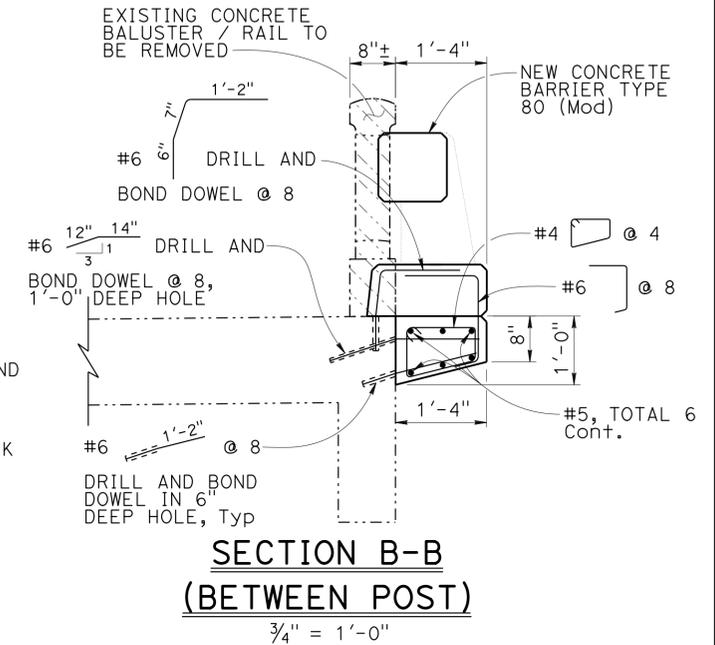
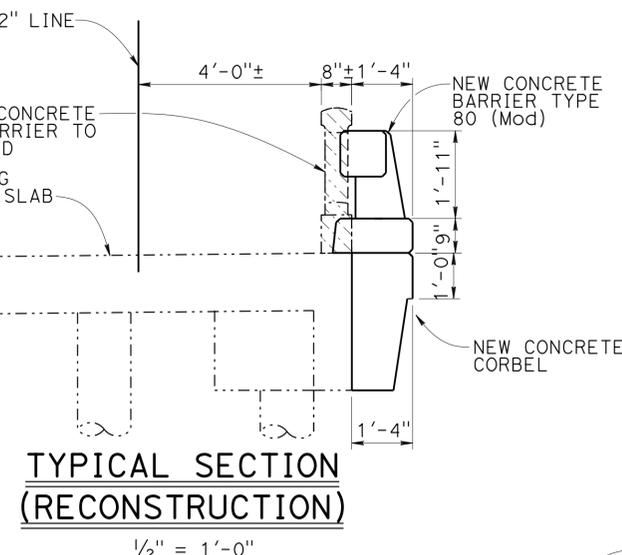
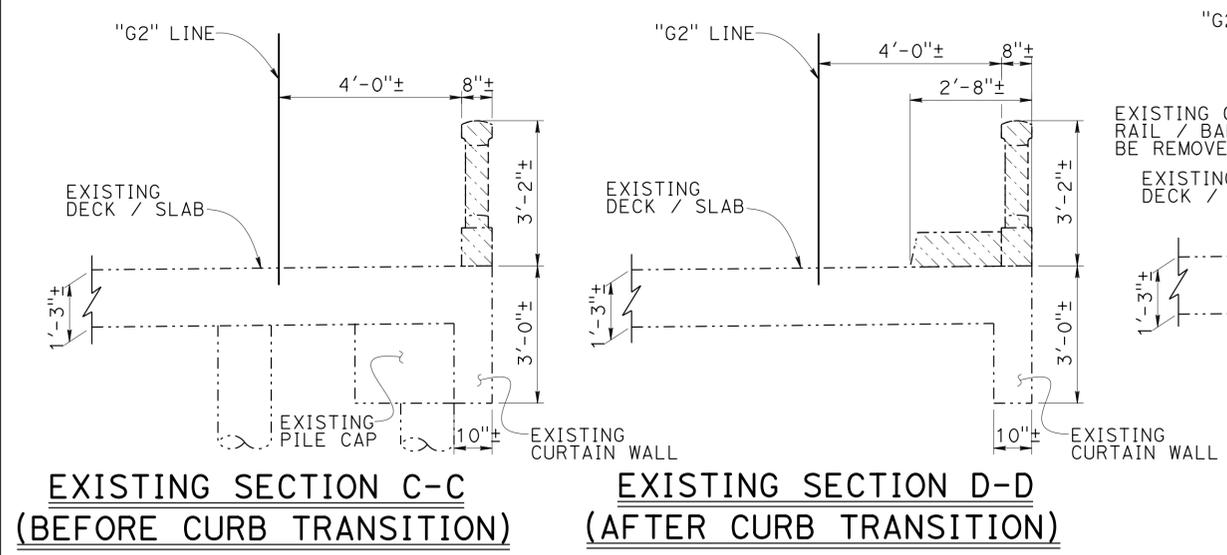
UNIT: 3593 PROJECT NUMBER & PHASE: 0412000480, 1 CONTRACT NO.: 04-4G4604

FILE => 27-0008-F-excbak.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	113	149
 REGISTERED CIVIL ENGINEER			04-06-15	DATE	
PLANS APPROVAL DATE 4-27-15					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

LEGEND:
 - - - - - Indicates existing
 _____ Indicates new construction
 [Hatched Box] Indicates Bridge removal (Portion)

NOTES:
 1. For concrete barrier reinforcement not shown, see RSP B11-60.
 2. For "TYPICAL SECTION (FULL DEPTH CORBEL)", see "CONC. BARRIER DETAILS NO. 1 - "G", "G1" LINE" sheet.



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

NOTE:
 * CONCRETE CORBEL DEPTH = 3'-0" (SEE "SECTION A-A")
 ** CONCRETE CORBEL DEPTH = 3'-10 1/2" (FULL DEPTH) - SEE NOTE 2

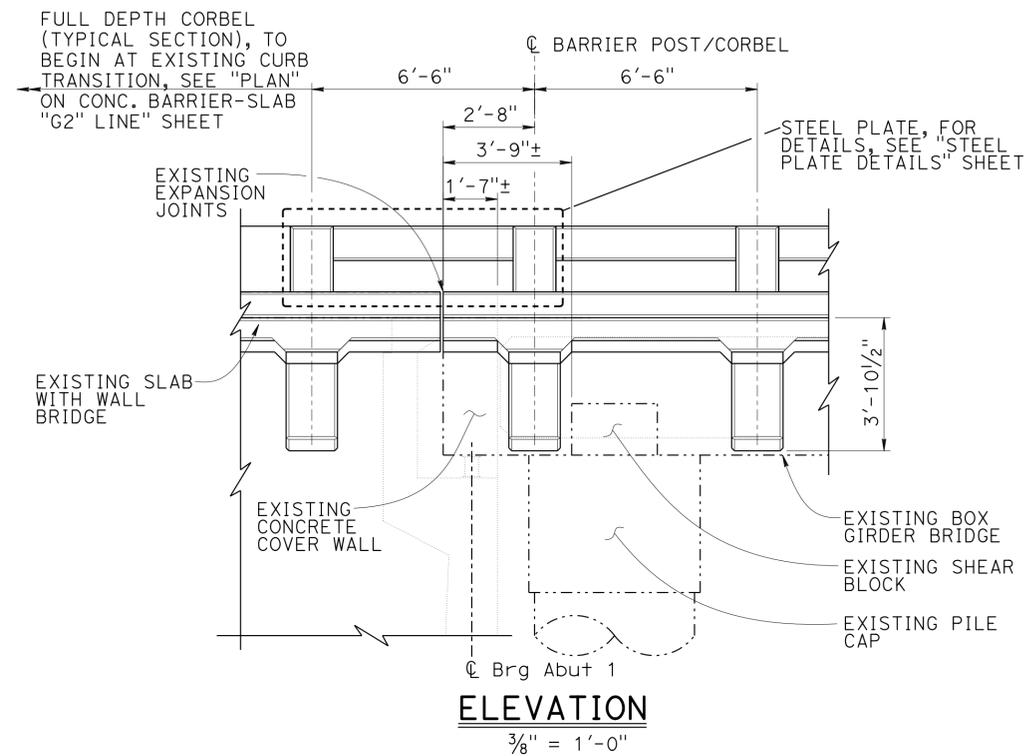
DESIGN	BY John Tjoelker	CHECKED Sam Kotalawala	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO.	27-0008S
DETAILS	BY Carlo Cancino	CHECKED John Tjoelker			POST MILE	8.47
QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke				

CORTE MADERA CREEK BRIDGES	
BARRIER REPLACEMENT / WIDEN	
CONC. BARRIER-SLAB "G2" LINE	
REVISION DATES	SHEET OF
03-05-15 03-25-15 08-18-15	11 22

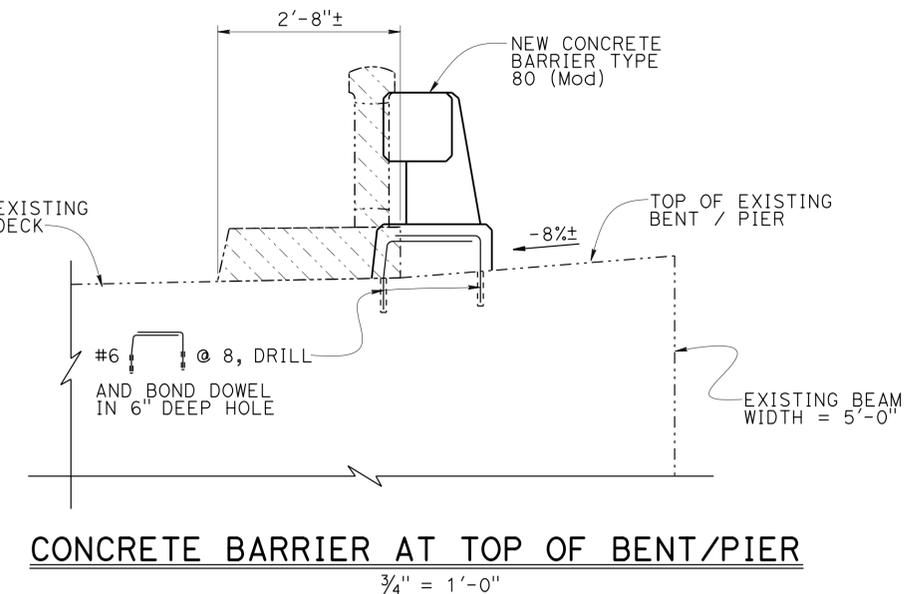
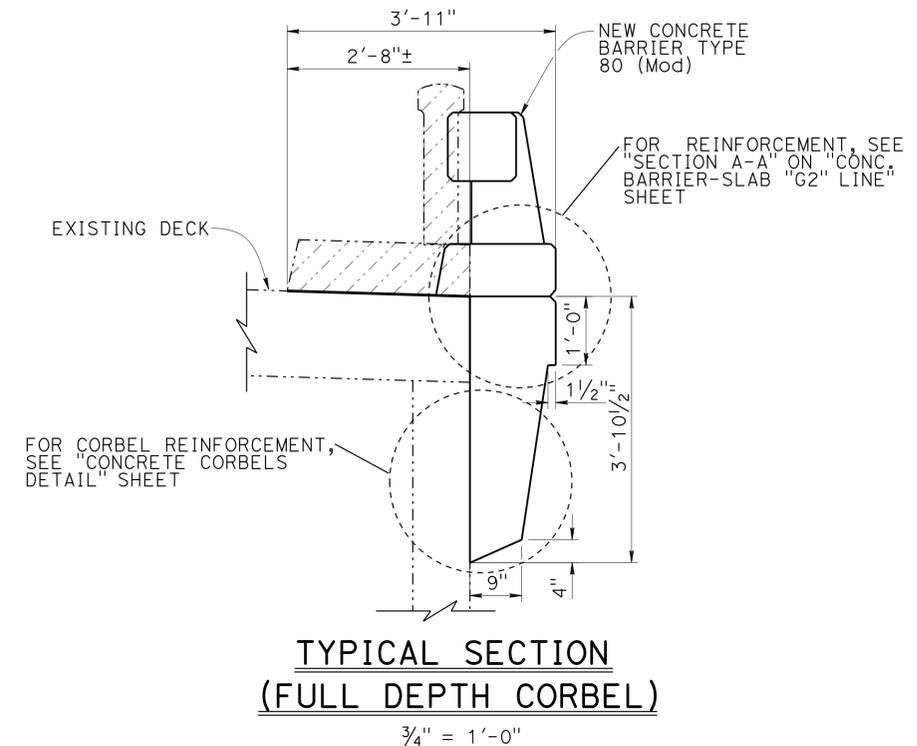
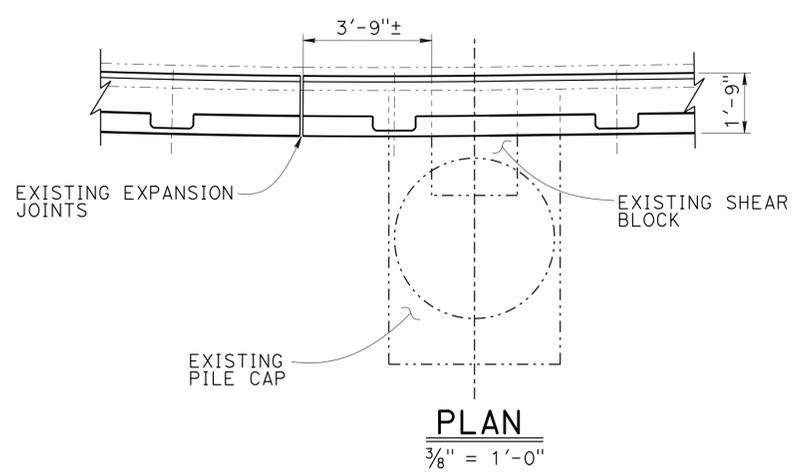
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	114	149

REGISTERED CIVIL ENGINEER **John R. Tjoelker** No. C77165 Exp. 12-31-16
 DATE 04-06-15
 PLANS APPROVAL DATE 4-27-15
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

NOTE:
1. For concrete barrier reinforcement not shown, see RSP B11-60.



NOTE:
THIS ELEVATION VIEW (MIRRORED) IS APPLICABLE TO EXPANSION JOINT NEAR ABUT 13 ("G" LINE).



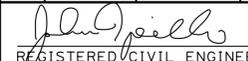
LEGEND:
 - - - - - Indicates existing
 _____ Indicates new construction
 [Hatched] Indicates Bridge removal (Portion)

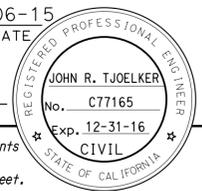
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTE:
G1 LINE PIER 3 SHOWN, G LINE IN OPPOSITE.

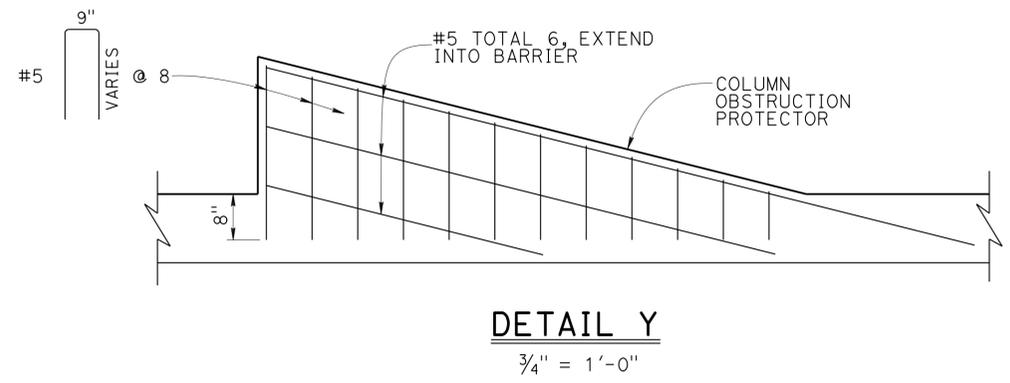
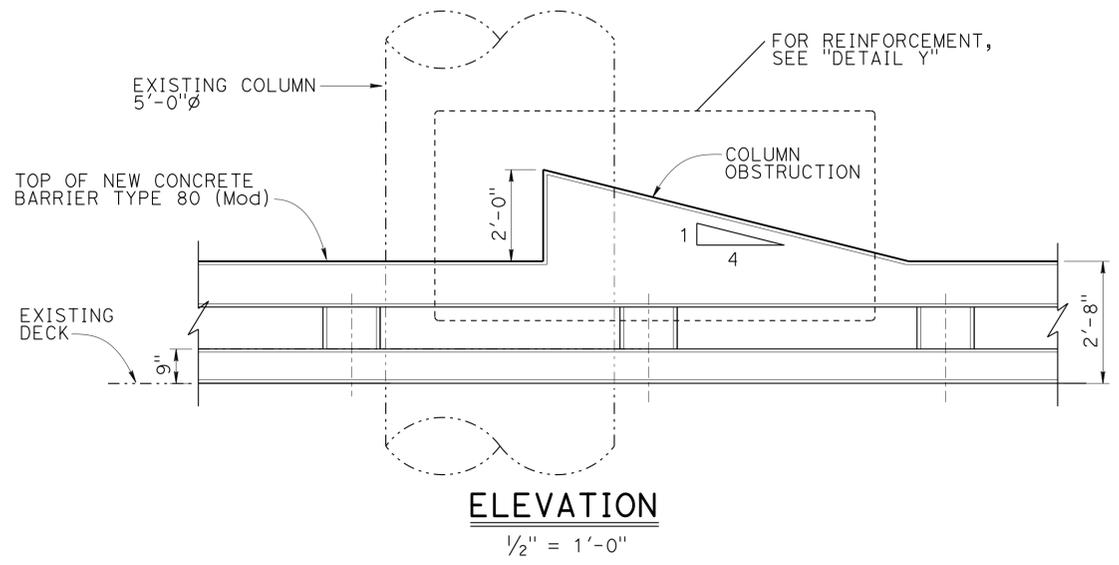
DESIGN	BY	John Tjoelker	CHECKED	Sam Kotalawala	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO.	27-0008S	
	DETAILS	BY	Carlo Cancino	CHECKED			John Tjoelker	POST MILE	8.47
	QUANTITIES	BY	Keith Nakaoka	CHECKED			Adam Menke		

CORTE MADERA CREEK BRIDGES
BARRIER REPLACEMENT / WIDEN
CONC. BARRIER DETAILS NO. 1-"G", "G1" LINE

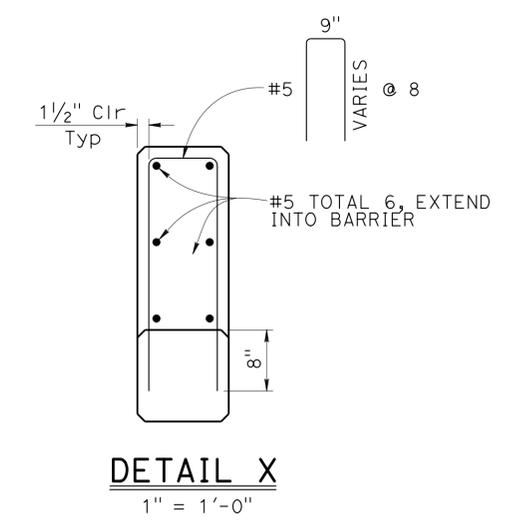
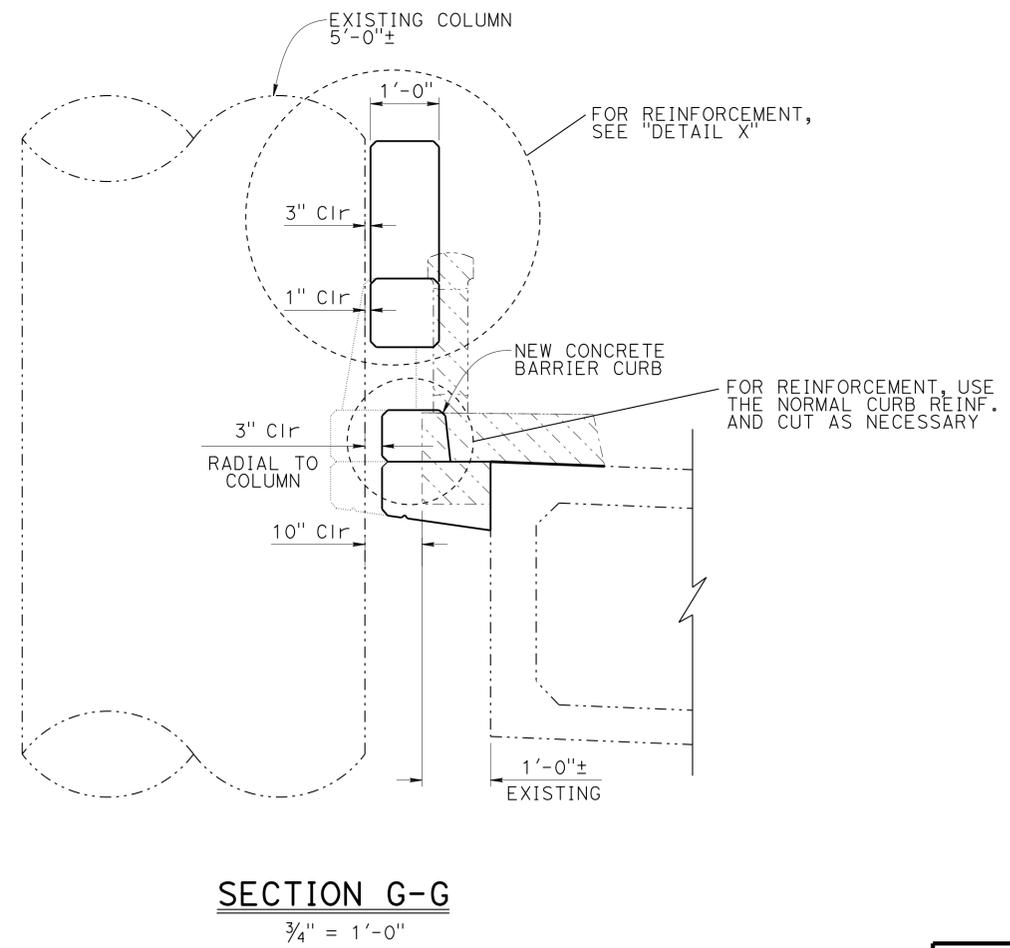
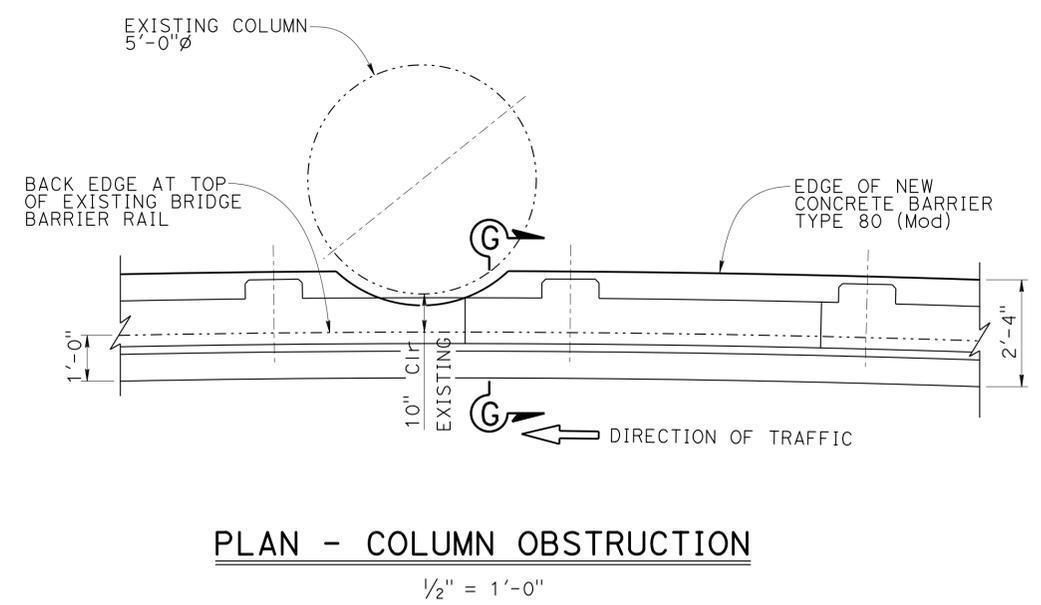
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	115	149
 REGISTERED CIVIL ENGINEER			04-06-15	DATE	
			4-27-15	PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



- NOTE:
- For concrete barrier reinforcement not shown, see RSP .
 - For location of column obstruction, see "STRUCTURE PLAN NO. 3" sheet.



- LEGEND:
- Indicates existing
 - Indicates new construction
 - ▨ Indicates Bridge removal (Portion)



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

DESIGN	BY	John Tjoelker	CHECKED	Sam Kotalawala	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO.	27-0008S	
	DETAILS	BY	Carlo Cancino	CHECKED			John Tjoelker	POST MILE	8.47
	QUANTITIES	BY	Keith Nakaoka	CHECKED			Adam Menke		

CORTE MADERA CREEK BRIDGES
BARRIER REPLACEMENT / WIDEN
CONC. BARRIER DETAILS NO. 2-"G", "G1" LINE

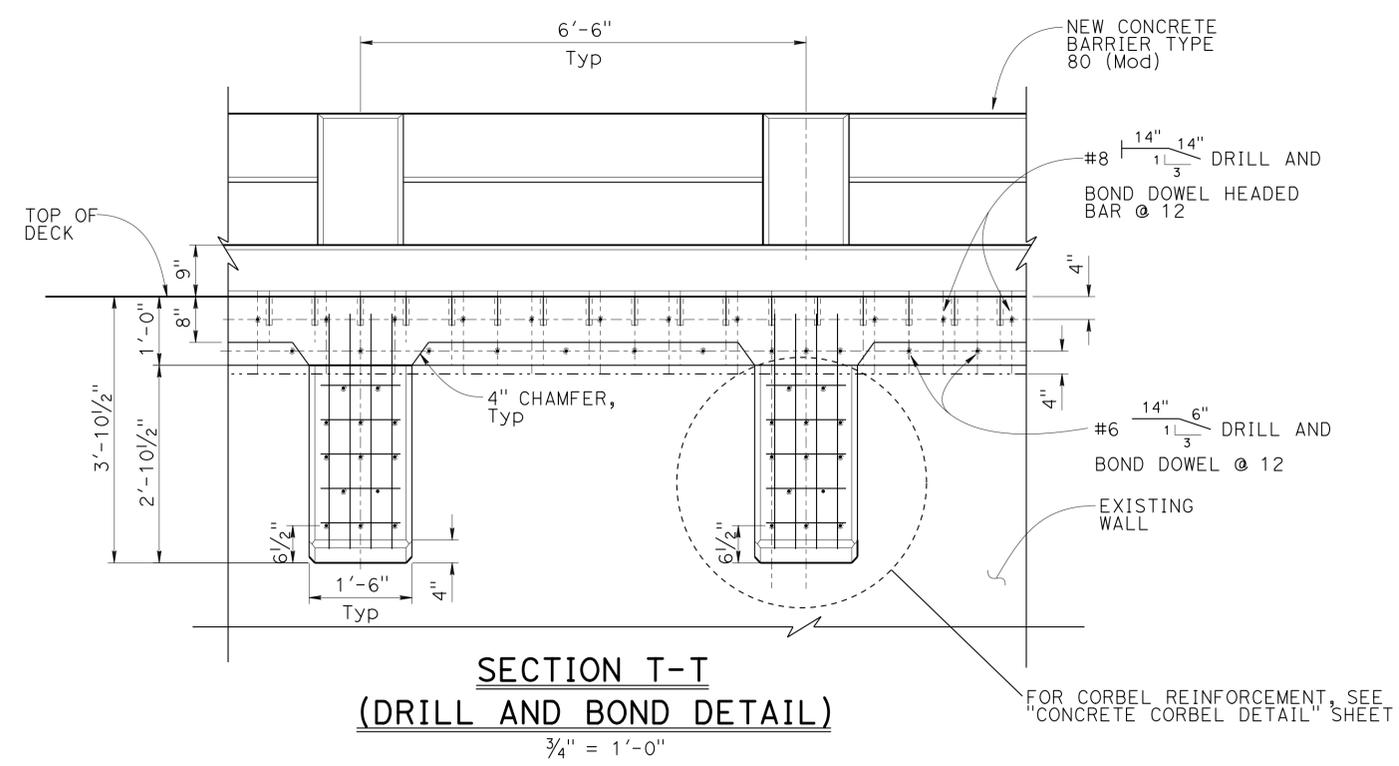
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	116	149

<i>John Tjoelker</i>	04-06-15
REGISTERED CIVIL ENGINEER	DATE
4-27-15	
PLANS APPROVAL DATE	

JOHN R. TJOELKER
No. C77165
Exp. 12-31-16
CIVIL
STATE OF CALIFORNIA

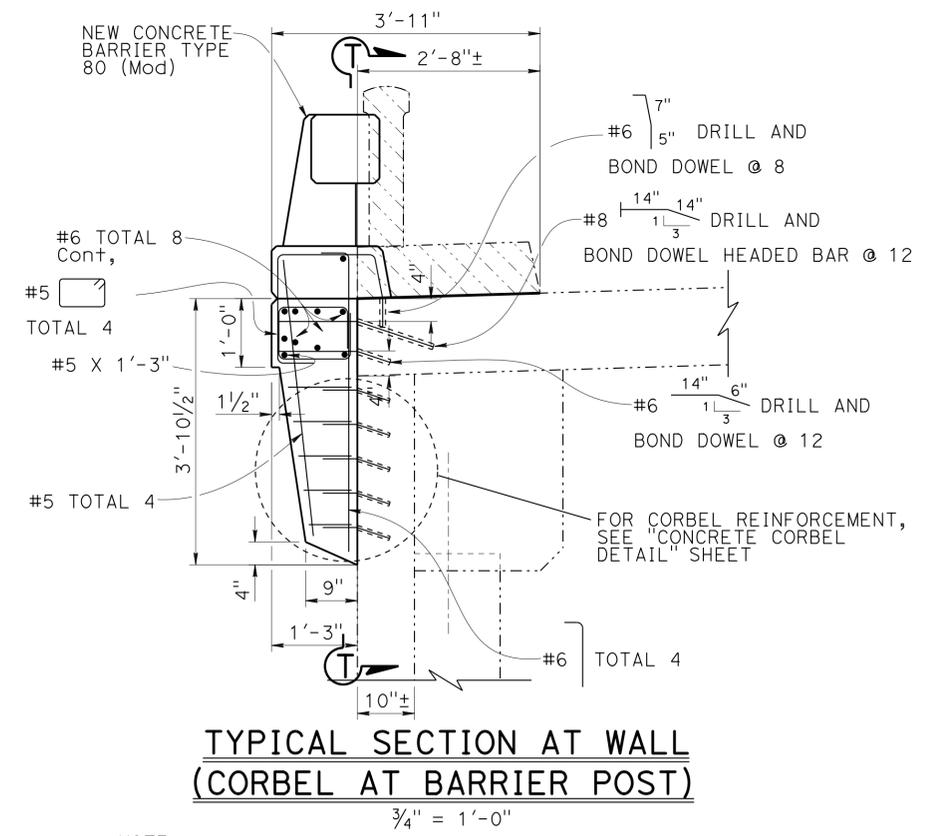
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

NOTE:
1. For concrete barrier reinforcement not shown, see RSP **B11-60**.



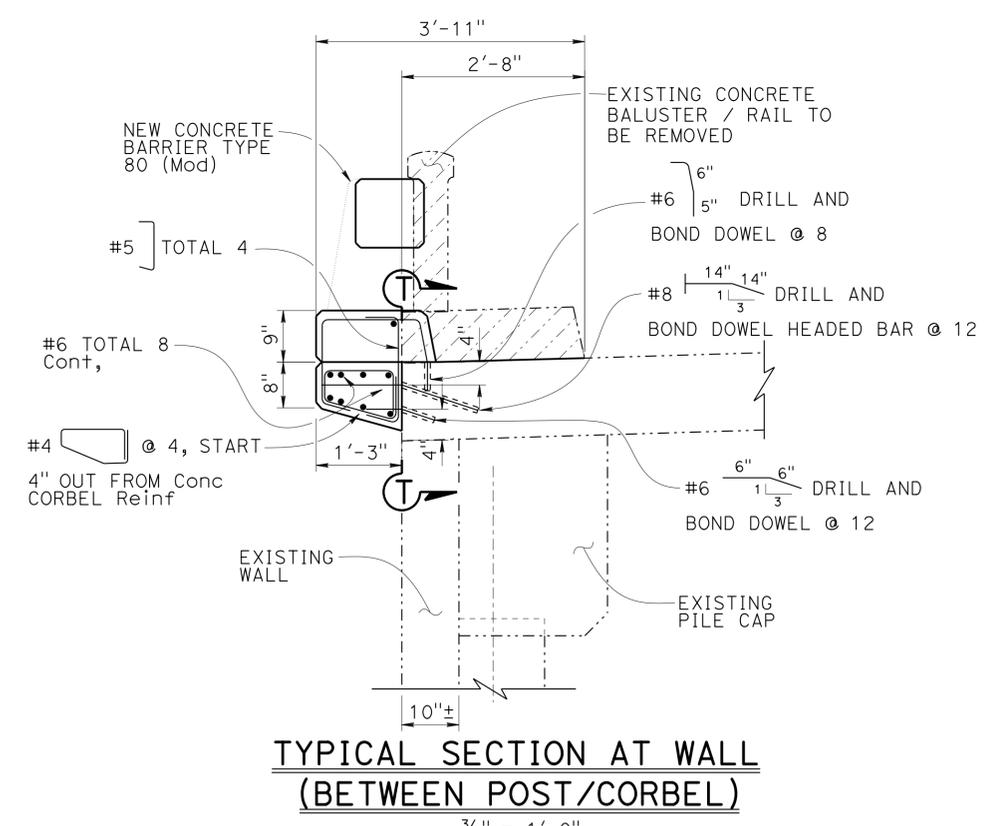
**SECTION T-T
(DRILL AND BOND DETAIL)**
3/4" = 1'-0"

LEGEND:
- - - - - Indicates existing
————— Indicates new construction
▨▨▨▨▨ Indicates Bridge removal (Portion)



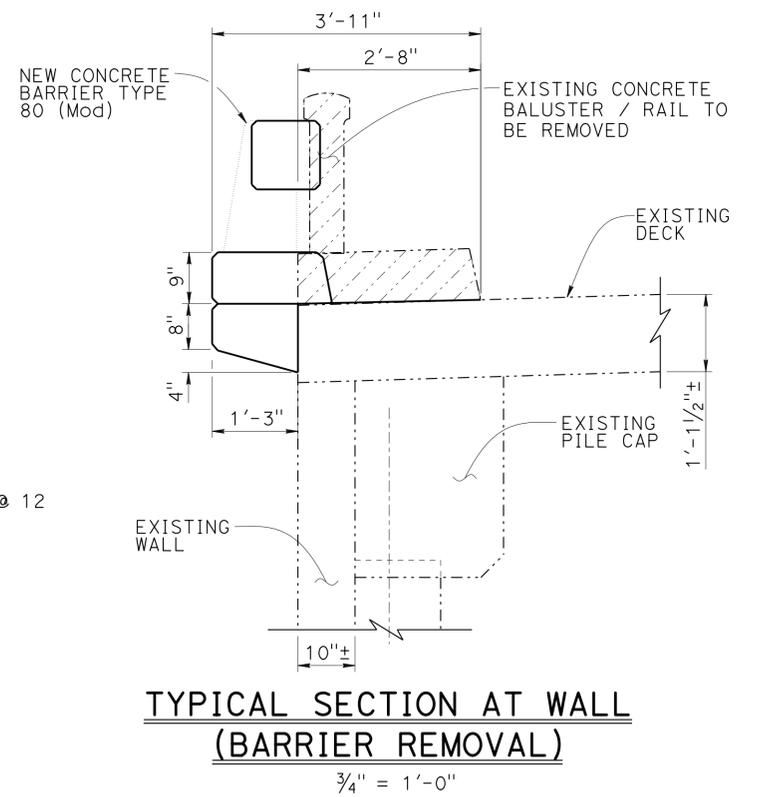
**TYPICAL SECTION AT WALL
(CORBEL AT BARRIER POST)**
3/4" = 1'-0"

NOTE: THIS SECTION APPLIES TO Sta 34+90± TO Sta 37+91.75±



**TYPICAL SECTION AT WALL
(BETWEEN POST/CORBEL)**
3/4" = 1'-0"

NOTE: THIS SECTION APPLIES TO Sta 34+90± TO Sta 37+91.75±



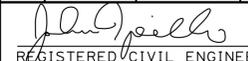
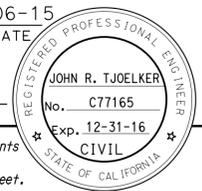
**TYPICAL SECTION AT WALL
(BARRIER REMOVAL)**
3/4" = 1'-0"

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

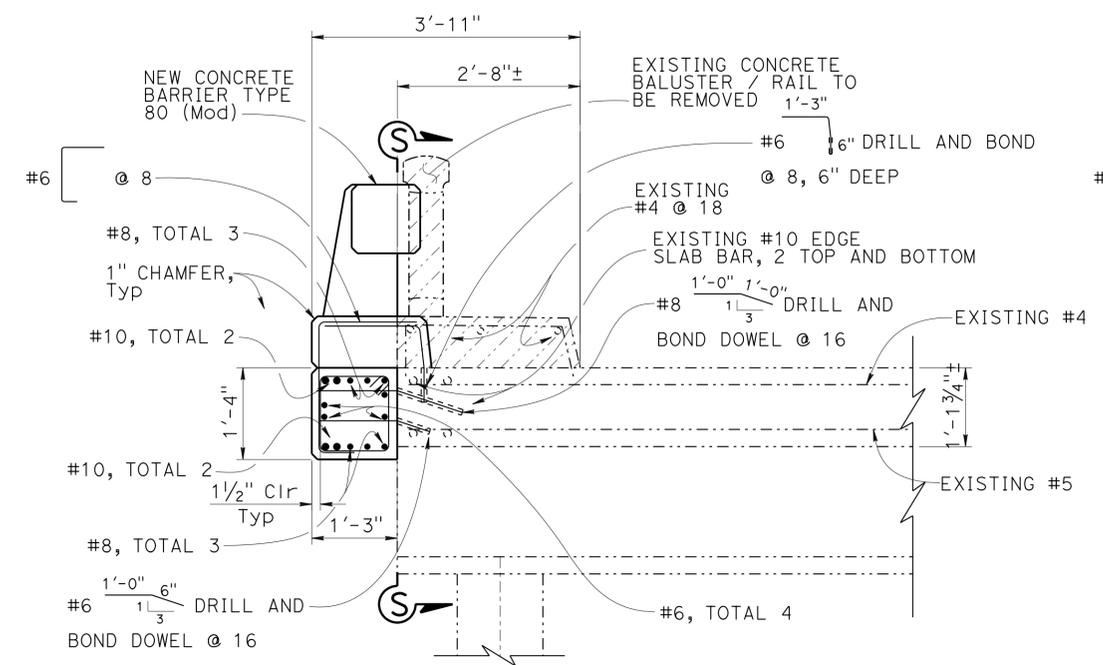
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		DESIGN BY John Tjoelker	CHECKED Sam Kotawala	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO. 27-0008S	CORTE MADERA CREEK BRIDGES BARRIER REPLACEMENT / WIDEN CONC. BARRIER-SLAB WITH WALL "G" LINE
	DETAILS BY Carlo Cancino	CHECKED John Tjoelker	POST MILE 8.47				
	QUANTITIES BY Keith Nakaoka	CHECKED Adam Menke					

UNIT: 3593	PROJECT NUMBER & PHASE: 0412000480, 1	CONTRACT NO.: 04-4G4604	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 14 OF 22
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			04-05-15	03-23-15	

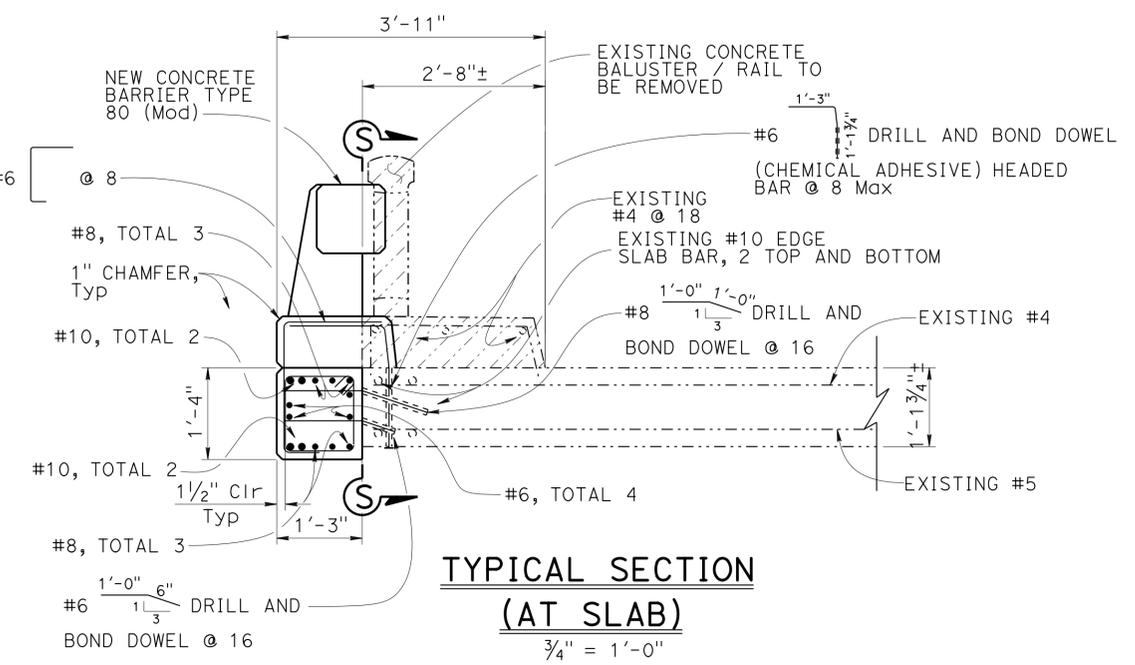
FILE => 27-0008-j-stabww_gline.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	117	149
 REGISTERED CIVIL ENGINEER			04-06-15	DATE	
PLANS APPROVAL DATE 4-27-15					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small>					

NOTE:
 1. For concrete barrier reinforcement not shown, see RSP B11-60.

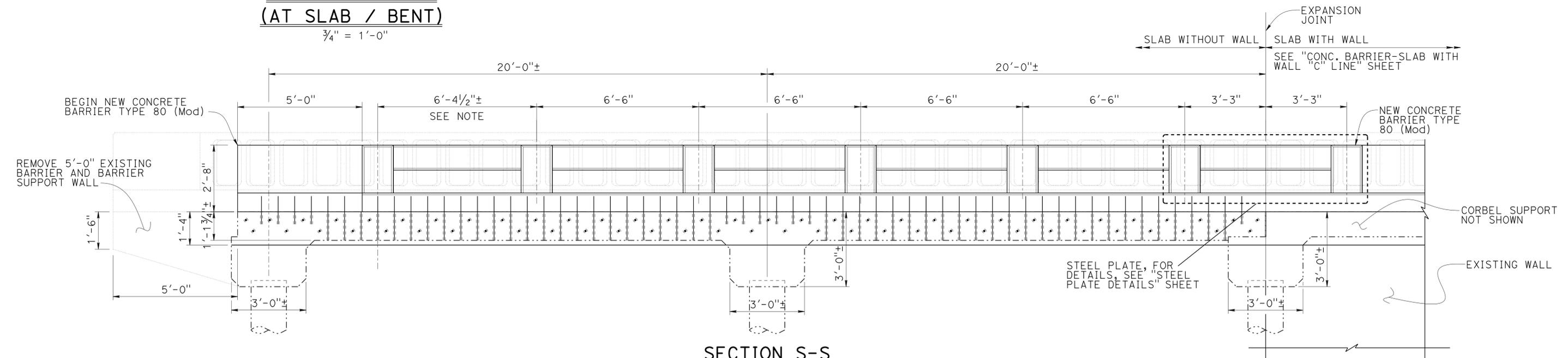


**TYPICAL SECTION
 (AT SLAB / BENT)**
 $\frac{3}{4}'' = 1'-0''$



**TYPICAL SECTION
 (AT SLAB)**
 $\frac{3}{4}'' = 1'-0''$

LEGEND:
 - - - - - Indicates existing
 _____ Indicates new construction
 [Hatched Box] Indicates Bridge removal (Portion)



**SECTION S-S
 (DRILL AND BOND DETAIL)
 (WITHOUT WALL)**
 $\frac{1}{2}'' = 1'-0''$

NOTE:
 Layout at Barrier Post spacing to be 6'-6" (Typ). First post to have odd spacing less than 6'-6".

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

DESIGN BY John Tjoelker CHECKED Sam Kotawala		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO. 27-0008R/L	CORTE MADERA CREEK BRIDGES BARRIER REPLACEMENT / WIDEN CONC. BARRIER-SLAB WITHOUT WALL "C" LINE
DETAILS BY Carlo Cancino CHECKED John Tjoelker				POST MILE 8.47	
QUANTITIES BY Keith Nakaoka CHECKED Adam Menke				UNIT: 3593 PROJECT NUMBER & PHASE: 0412000480, 1 CONTRACT NO.: 04-4G4604	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				DISREGARD PRINTS BEARING EARLIER REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				REVISION DATES 03-05-15 03-23-15	
0 1 2 3				SHEET 15 OF 22	

USERNAME => s131974 DATE PLOTTED => 27-MAY-2015 TIME PLOTTED => 14:10

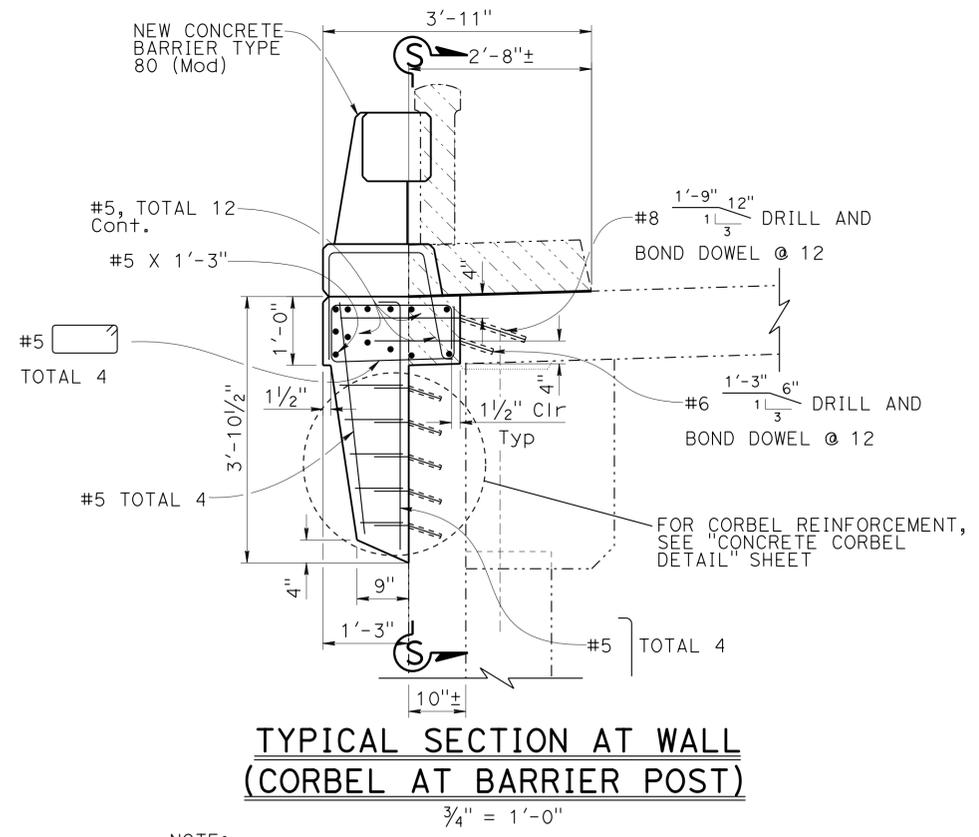
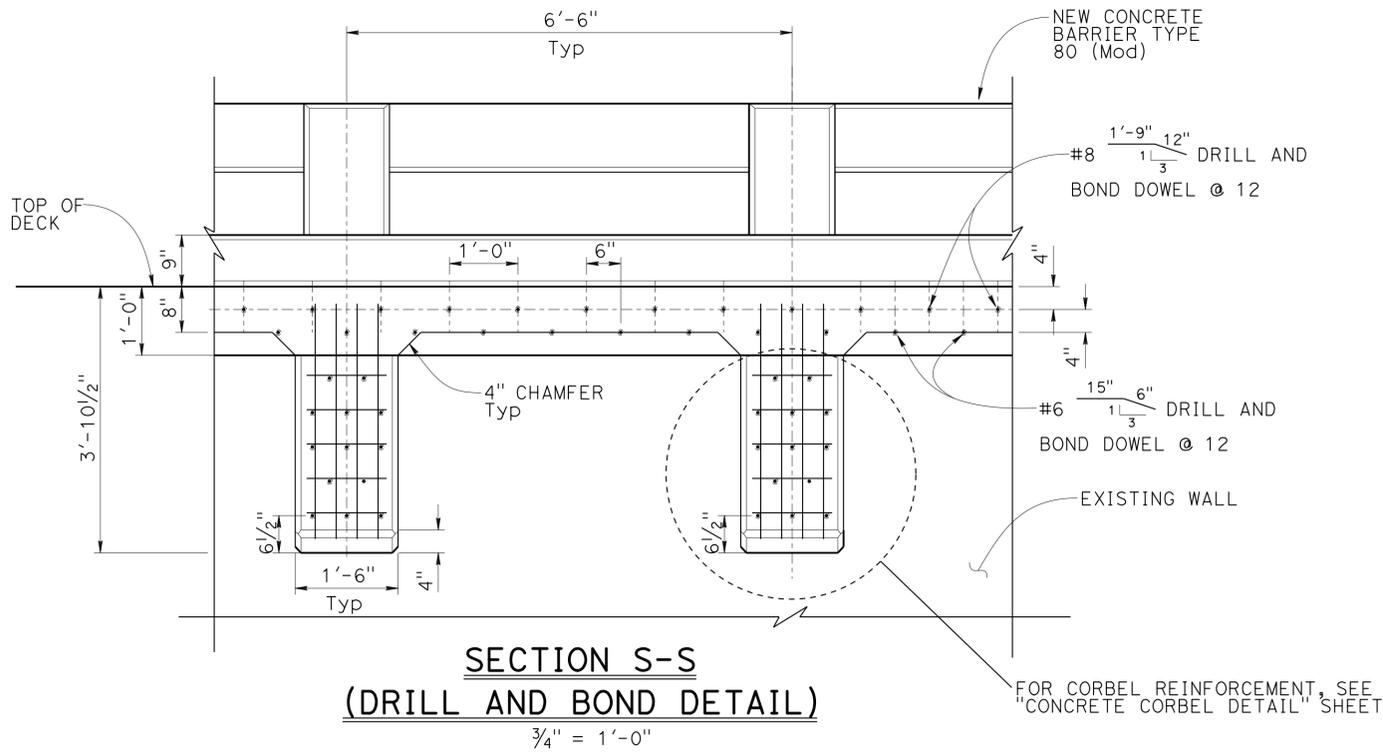
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	118	149

04-06-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE
 JOHN R. TJOELKER
 No. C77165
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

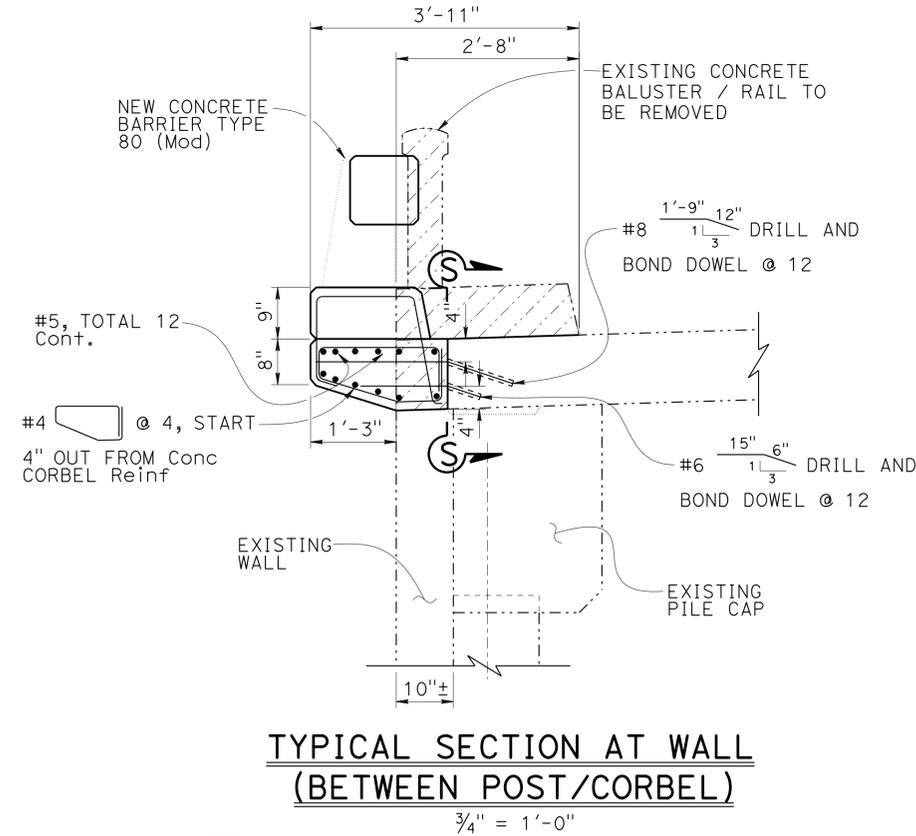
- NOTES:
- For concrete barrier reinforcement not shown, see RSP (B11-60).
 - Existing and new polyester concrete not shown.

LEGEND:

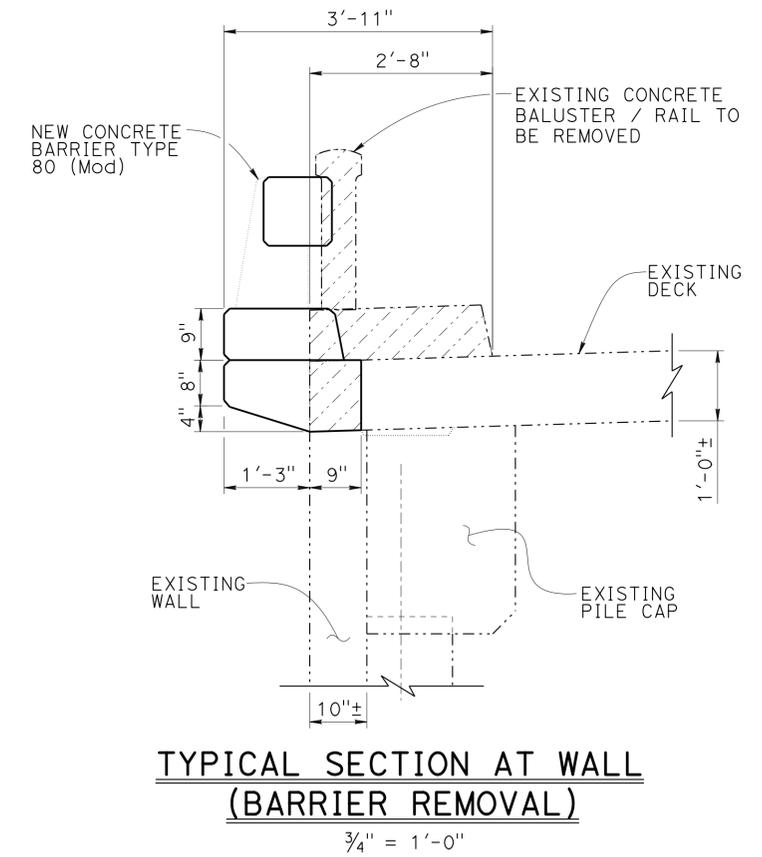
- Indicates existing
- Indicates new construction
- ▨ Indicates Bridge removal (Portion)



NOTE: THIS SECTION APPLIES TO Sta 135+25.75± TO Sta 137+50.75±



NOTE: THIS SECTION APPLIES TO Sta 135+25.75± TO Sta 137+50.75±



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

CORTE MADERA CREEK BRIDGES

BARRIER REPLACEMENT / WIDEN

CONC. BARRIER-SLAB WITH WALL "C" LINE

BRIDGE NO. 27-0008R/L

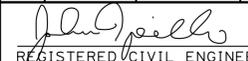
POST MILE 8.47

DESIGN	BY John Tjoelker	CHECKED Sam Kotalawala
DETAILS	BY Carlo Cancino	CHECKED John Tjoelker
QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke

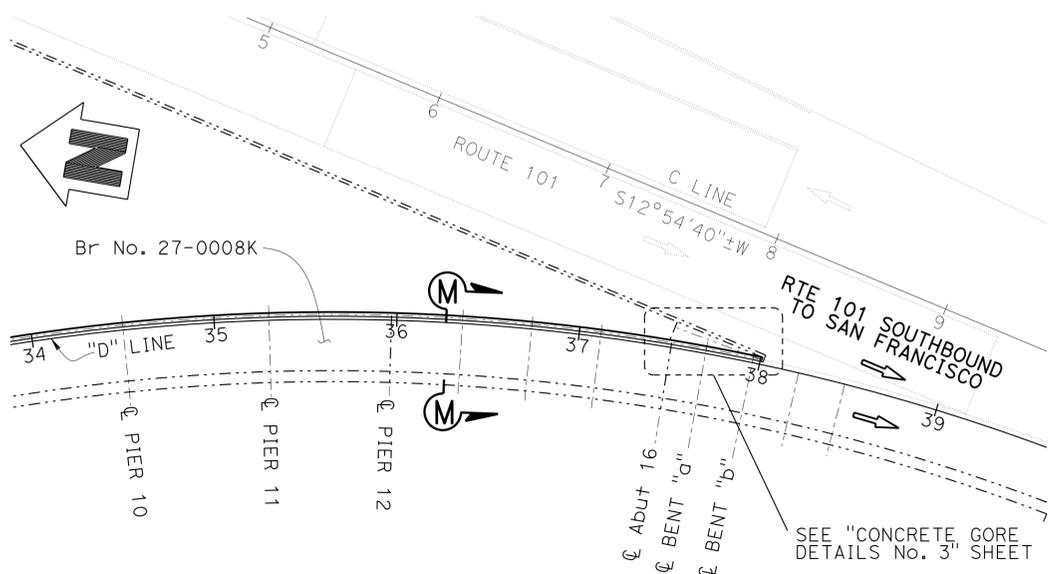
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 8

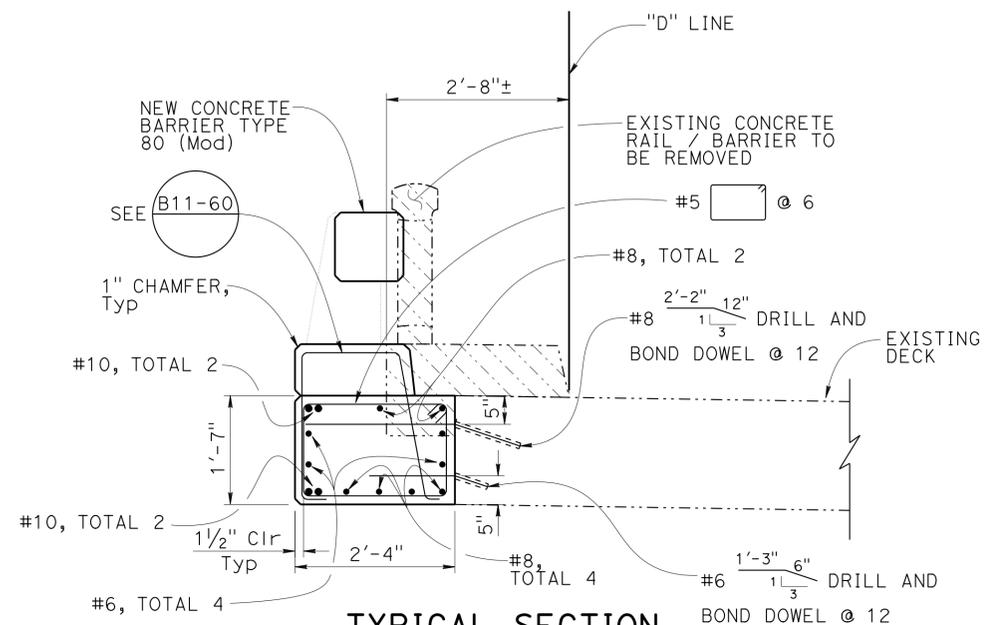
BRIDGE NO. 27-0008R/L
POST MILE 8.47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	119	149
 REGISTERED CIVIL ENGINEER			DATE	04-06-15 PLANS APPROVAL DATE	
JOHN R. TJOELKER No. C77165 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA			4-27-15 PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small>					

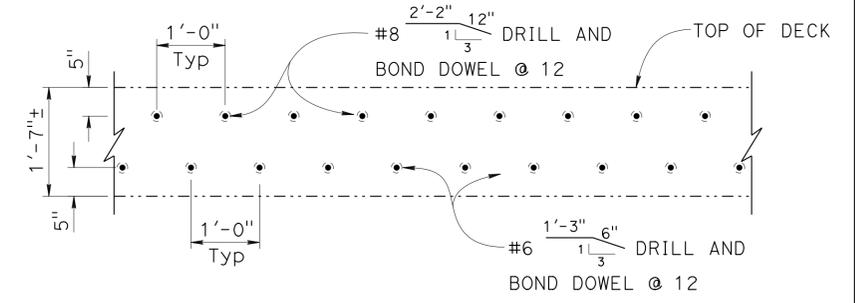
NOTE:
 1. For concrete barrier reinforcement not shown, see RSP B11-60.



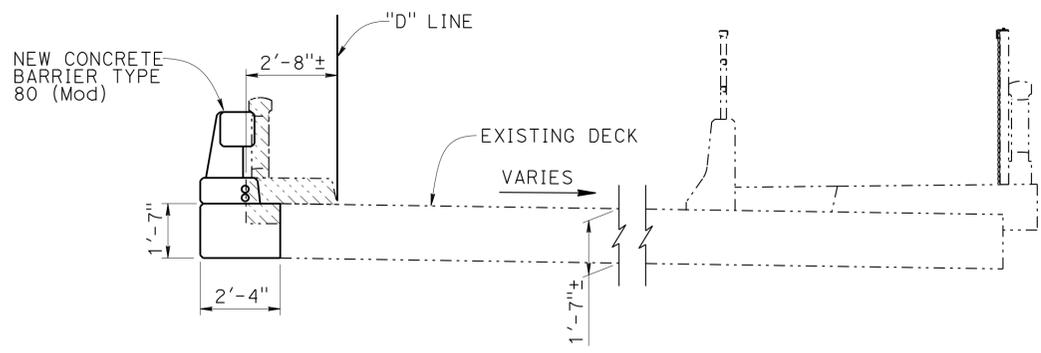
PLAN
 1" = 50'-0"



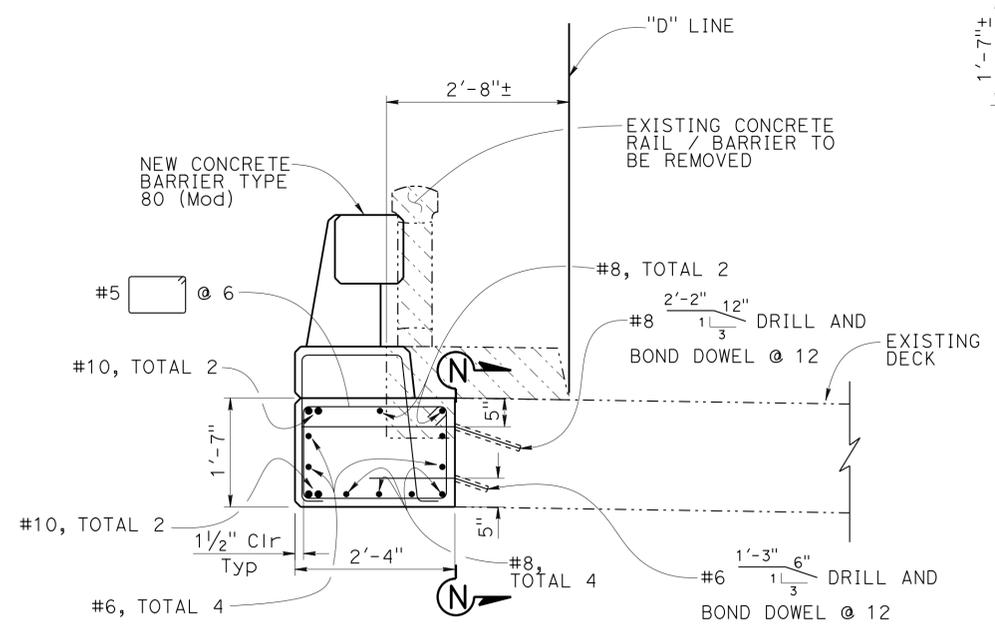
TYPICAL SECTION (BETWEEN POST)
 $\frac{3}{4}" = 1'-0"$



SECTION N-N (DRILL AND BOND DETAIL)
 $\frac{3}{4}" = 1'-0"$



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



TYPICAL SECTION (AT BARRIER POST)
 $\frac{3}{4}" = 1'-0"$

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

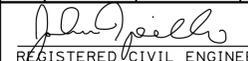
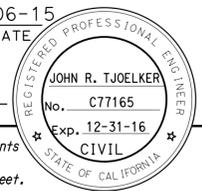
DESIGN	BY John Tjoelker	CHECKED Sam Kotalawala
DETAILS	BY Carlo Cancino	CHECKED John Tjoelker
QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke

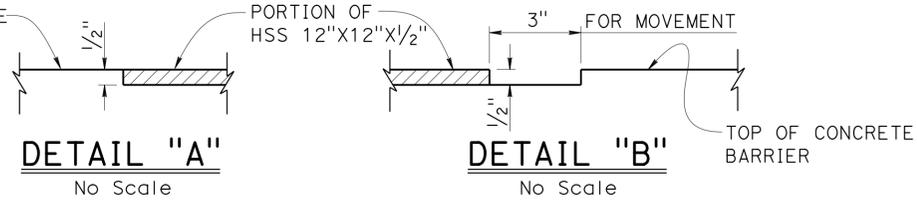
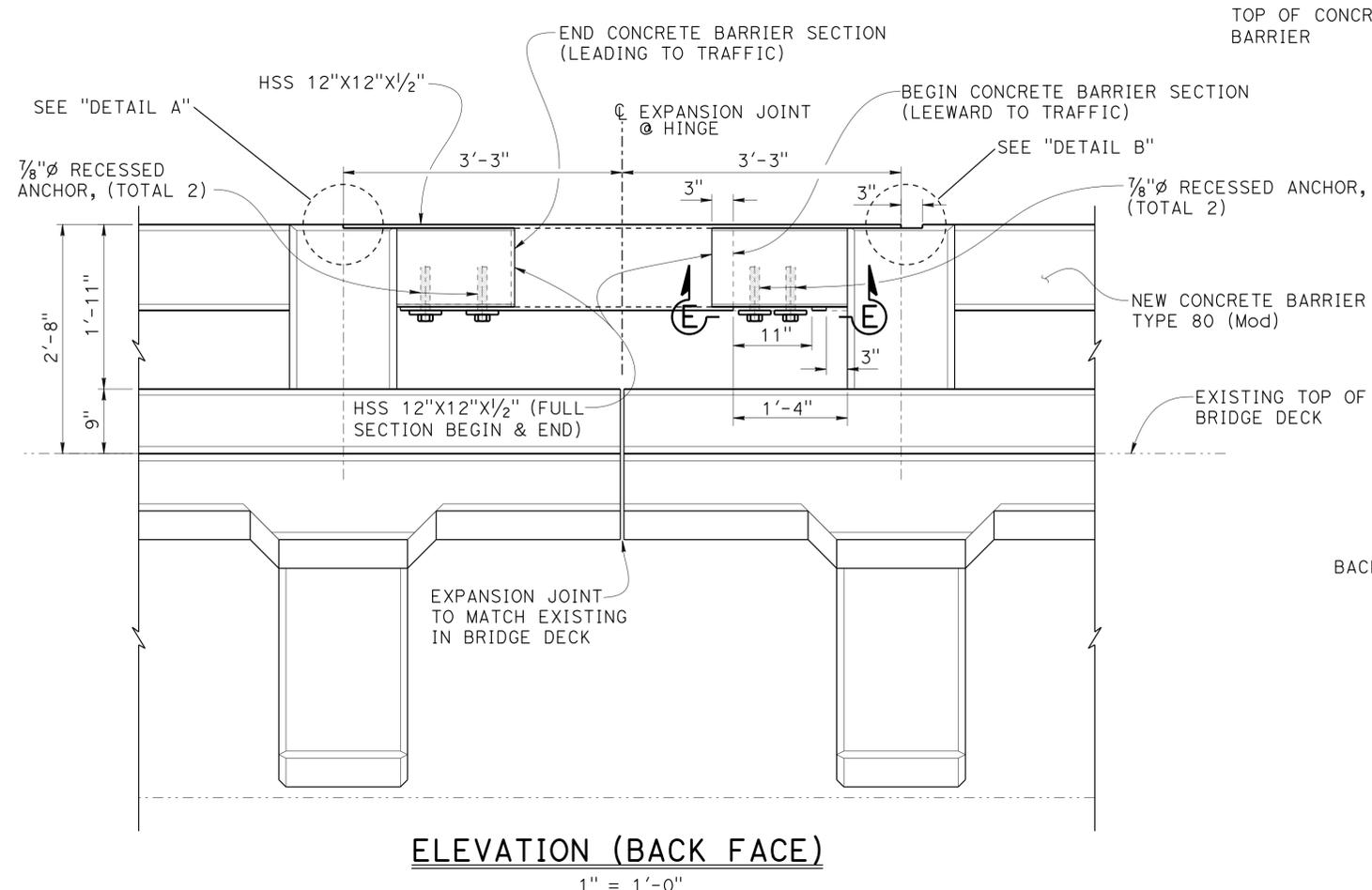
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **8**

BRIDGE NO.	27-0008K
POST MILE	8.47

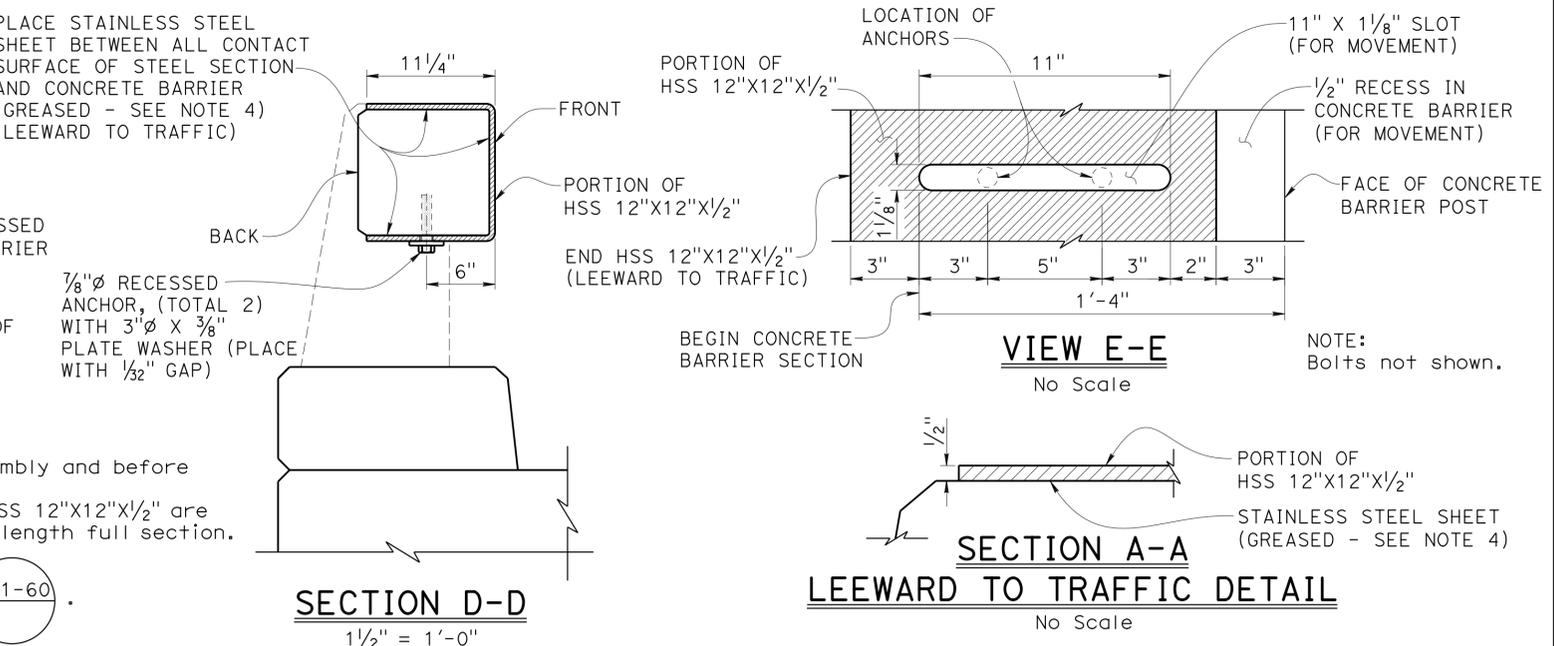
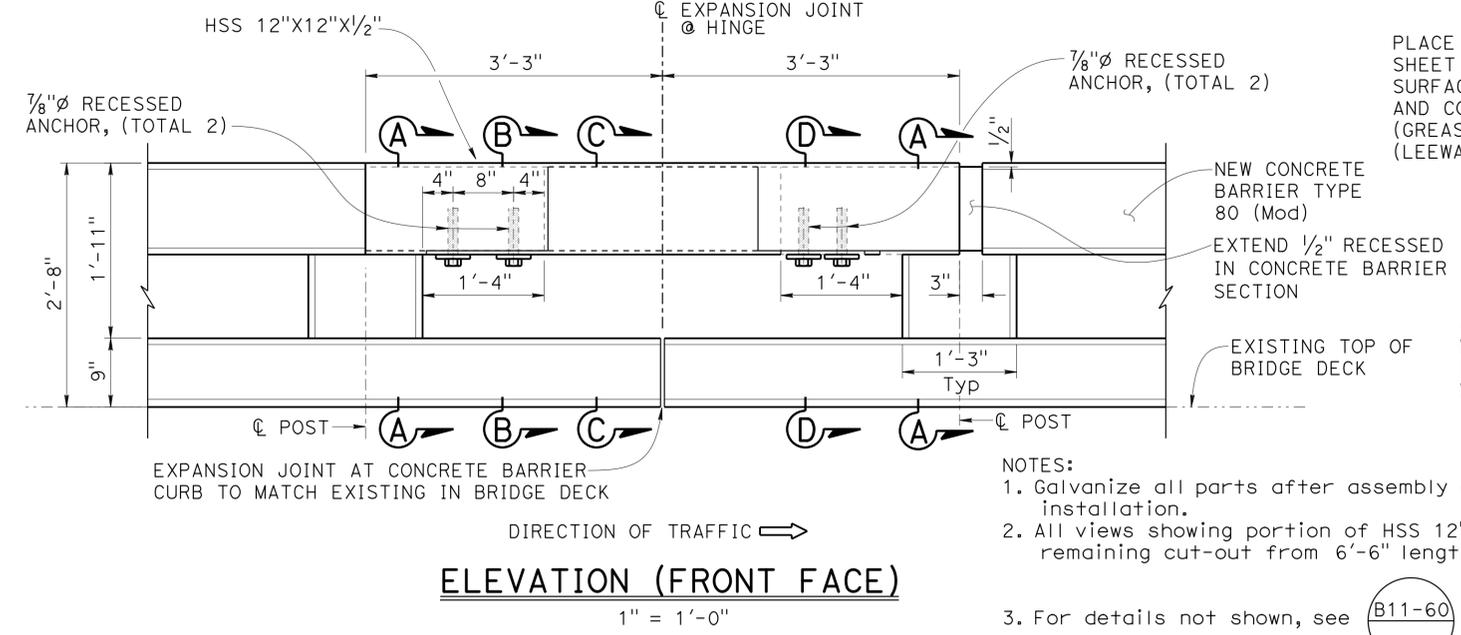
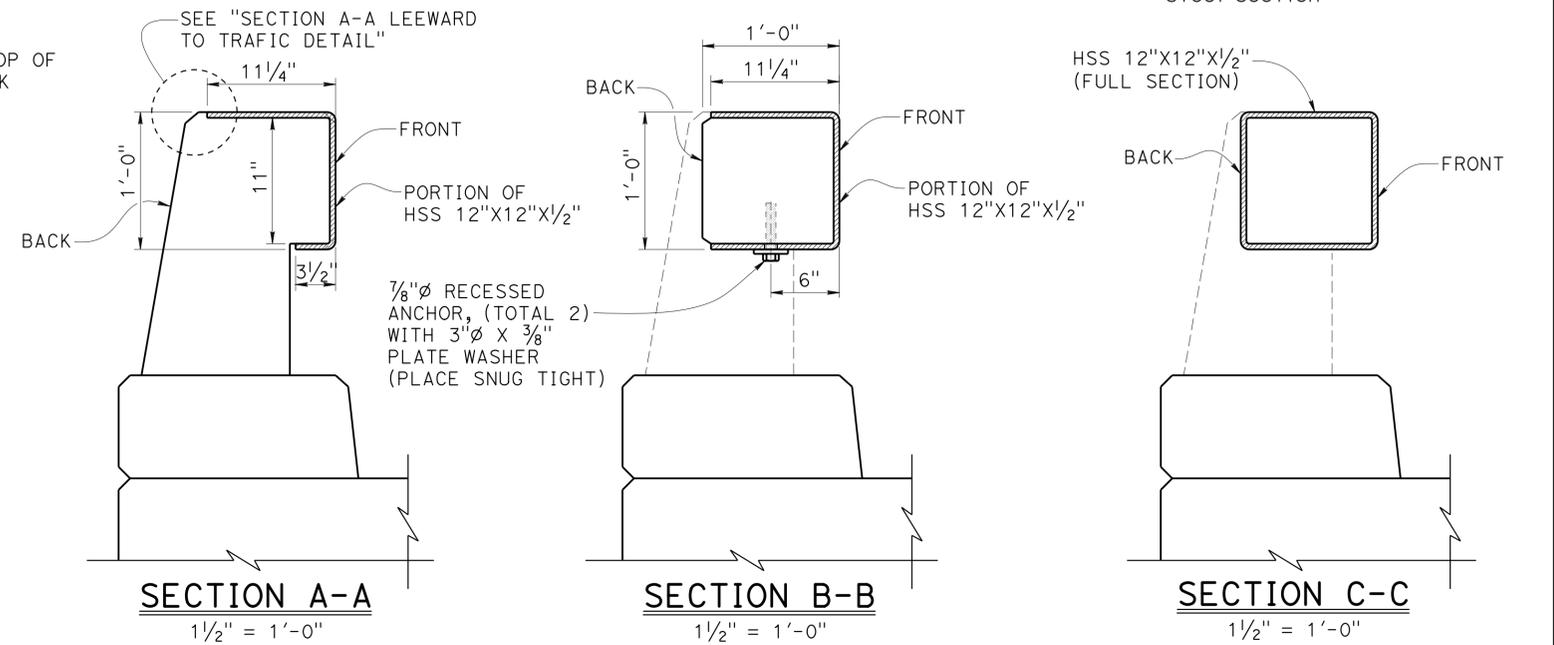
CORTE MADERA CREEK BRIDGES
BARRIER REPLACEMENT / WIDEN
CONC. BARRIER-SLAB "D" LINE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	120	149
 REGISTERED CIVIL ENGINEER			04-06-15	DATE	
PLANS APPROVAL DATE 4-27-15					



NOTE:
 CENTER LINE DISTANCE OF POSTS AT ALL EXPANSION JOINTS TO BE 6'-6" AND HSS 12"X12"X1/2" PLACED CENTER ABOUT EXPANSION JOINTS. CONCRETE BARRIER POST IRREGULAR SPACING PLACED ELSEWHERE FROM EXPANSION JOINT. PLACEMENT OF STEEL SECTION AT ABUTMENT SHOWN ELSEWHERE IN STRUCTURE PLANS.

LEGEND:
 - - - - - Indicates existing
 _____ Indicates new construction
 [Hatched Box] Indicates HSS 12"X12"X1/2" Steel Section

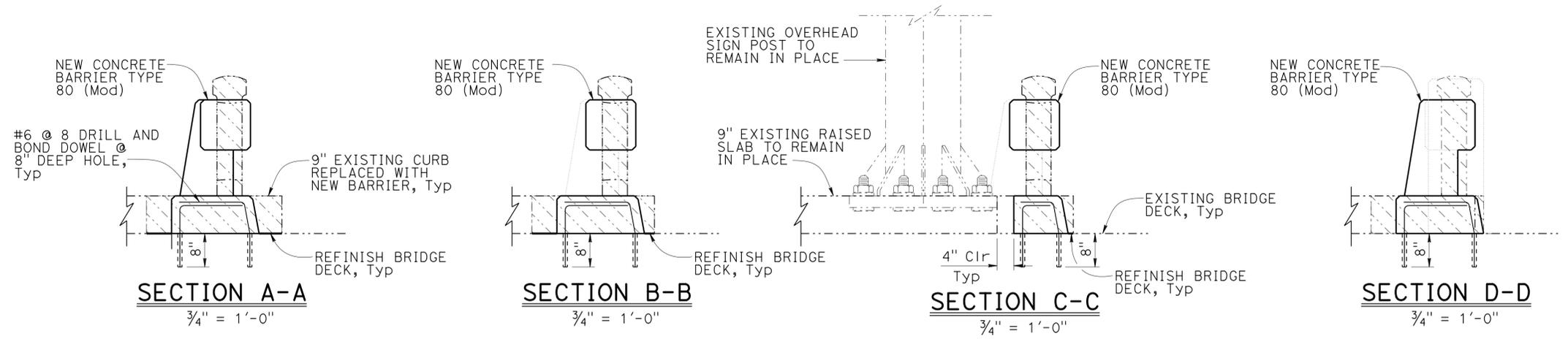


NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

- NOTES:
- Galvanize all parts after assembly and before installation.
 - All views showing portion of HSS 12"X12"X1/2" are remaining cut-out from 6'-6" length full section.
 - For details not shown, see **(B11-60)**.
 - Stainless steel sheet to be greased between steel section.

DESIGN BY John Tjoelker CHECKED Sam Kotalawala				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO.	CORTE MADERA CREEK BRIDGES		
DETAILS BY Carlo Cancino CHECKED John Tjoelker						27-0008	BARRIER REPLACEMENT / WIDEN		
QUANTITIES BY Keith Nakaoka CHECKED Adam Menke						POST MILE	STEEL PLATE DETAILS		
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3593 PROJECT NUMBER & PHASE: 0412000480, 1	CONTRACT NO.: 04-4G4604	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 03-05-15 08-12-15	SHEET OF 18 22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	121	149
			04-06-15	DATE	
			4-27-15	PLANS APPROVAL DATE	
REGISTERED CIVIL ENGINEER JOHN R. TJOELKER No. C77165 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA					

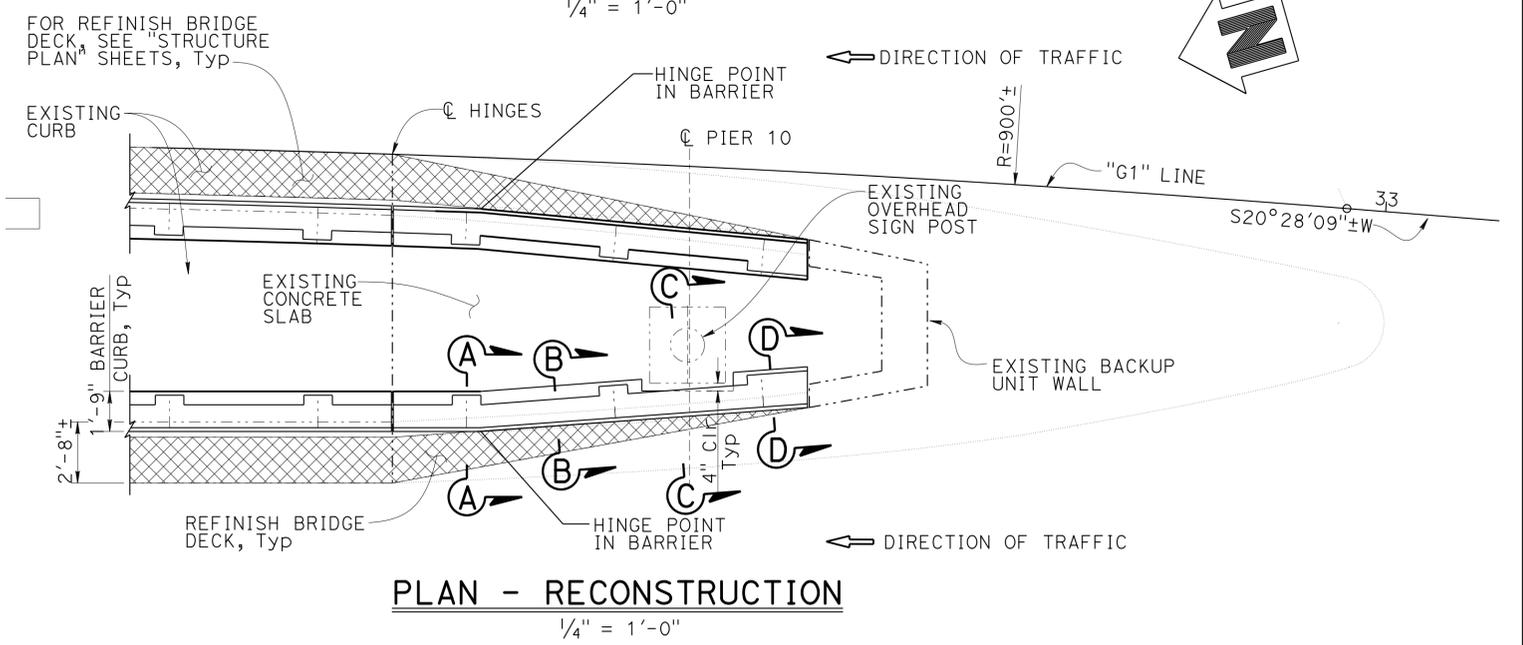
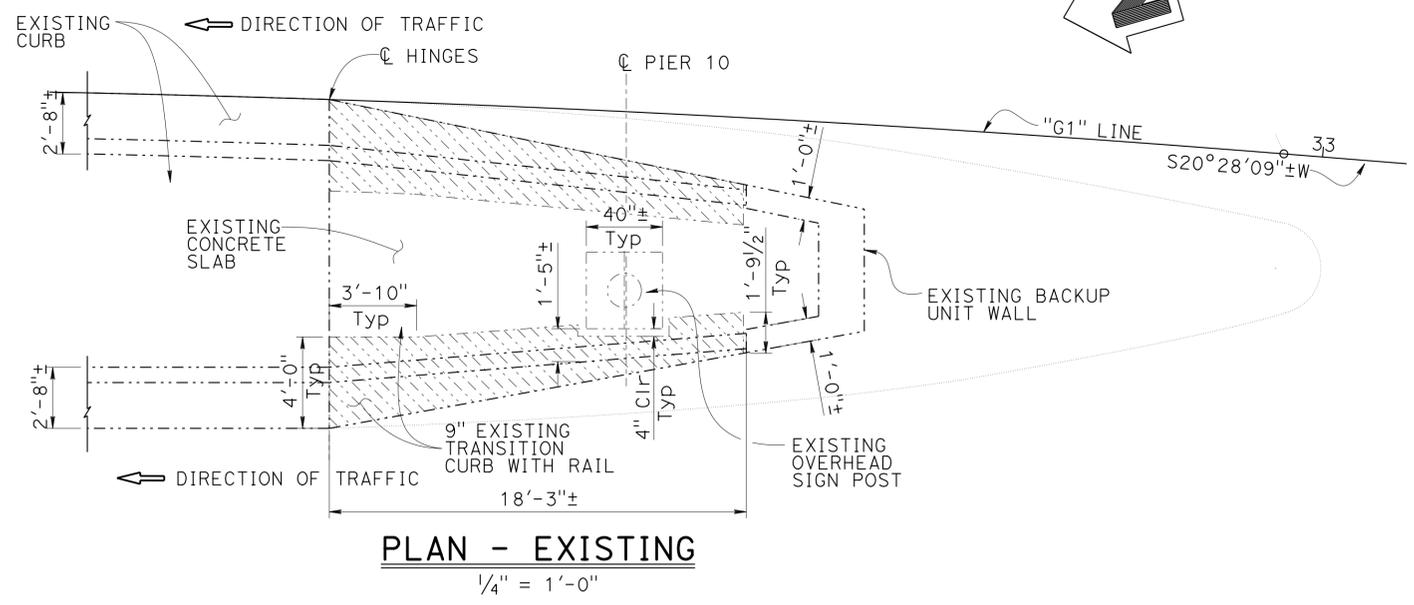
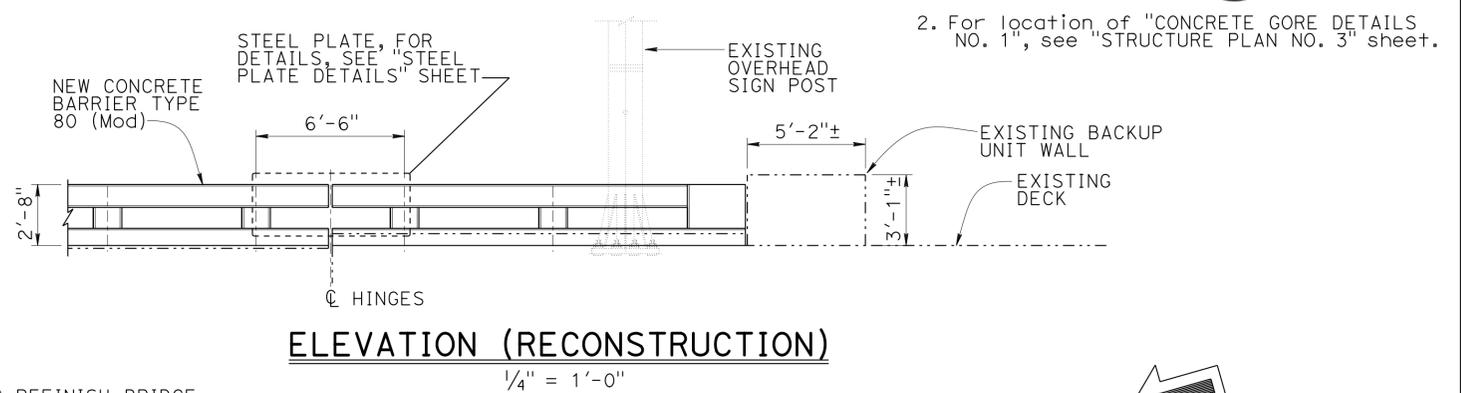
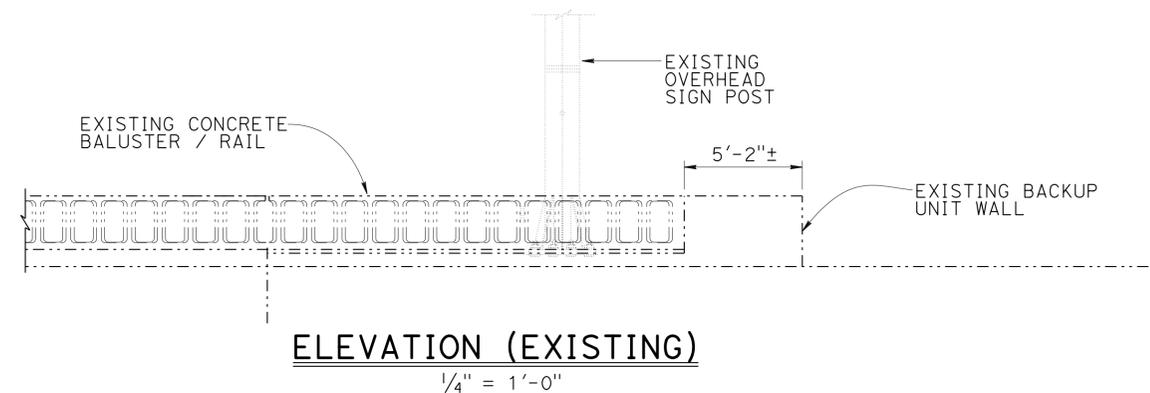


LEGEND:

- Indicates existing
- Indicates new construction
- ▨ Indicates Bridge removal (Portion)
- ▩ Indicates Refinish Bridge Deck

NOTES:

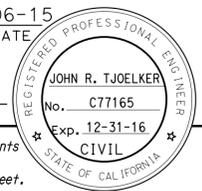
- For concrete barrier reinforcement not shown, see RSP **(B11-60)**.
- For location of "CONCRETE GORE DETAILS NO. 1", see "STRUCTURE PLAN NO. 3" sheet.



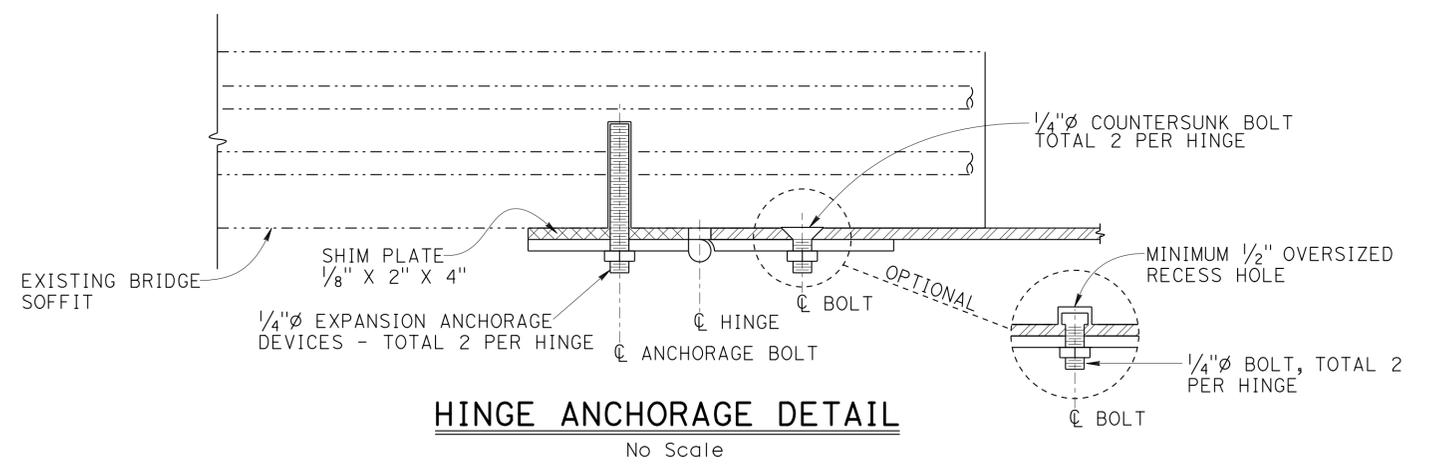
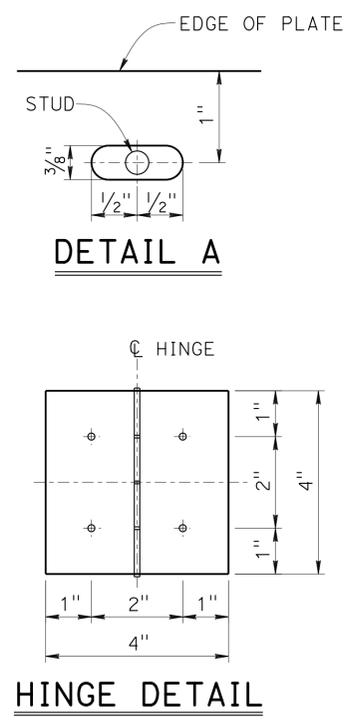
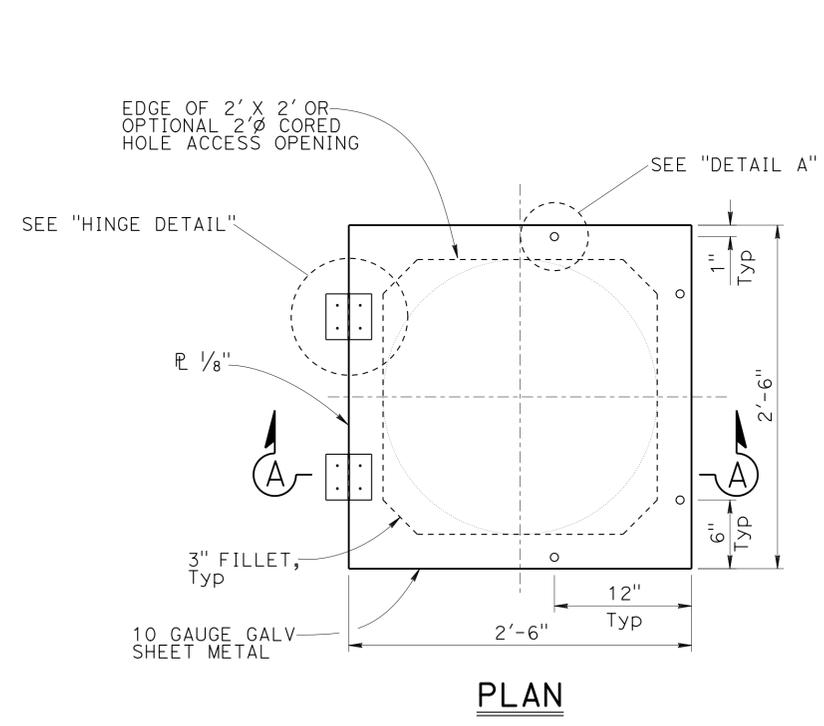
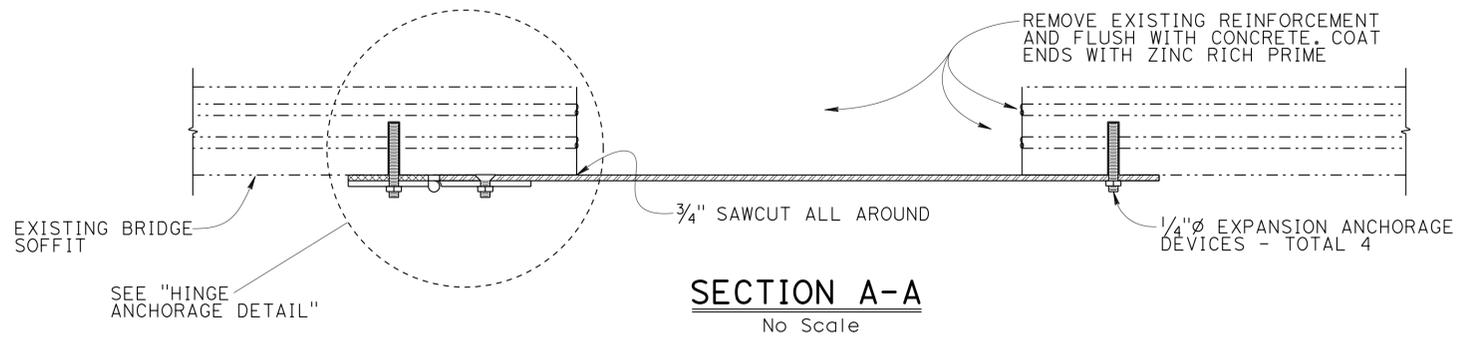
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN BY John Tjoelker CHECKED Sam Kotawala				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO. 27-0008S	CORTE MADERA CREEK BRIDGES BARRIER REPLACEMENT / WIDEN CONCRETE GORE DETAILS No. 1			
DETAILS BY Carlo Cancino CHECKED John Tjoelker						POST MILE 8.47				
QUANTITIES BY Keith Nakaoka CHECKED Adam Menke										
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						UNIT: 3593 PROJECT NUMBER & PHASE: 0412000480, 1	CONTRACT NO.: 04-4G4604	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 03-05-15 03-27-15	SHEET 19 OF 22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	124	149
			04-06-15	DATE	
REGISTERED CIVIL ENGINEER			DATE		
4-27-15			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



LEGEND:
 - - - - - Indicates existing
 _____ Indicates new construction



ACCESS OPENING HATCH DETAIL
No Scale

NOTE:
 Soffit access door opening location / direction to be determined by the Engineer.

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

- NOTES:**
1. Non-removable pin in hinge.
 2. Hinge assembly to be galvanized, brass or stainless steel.
 3. Use thread locking system for all hinge nuts.
 4. Hinge assembly to be minimum 1/8 inch thick.

DESIGN	BY John Tjoelker	CHECKED Sam Kotalawala
DETAILS	BY Carlo Cancino	CHECKED John Tjoelker
QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 8

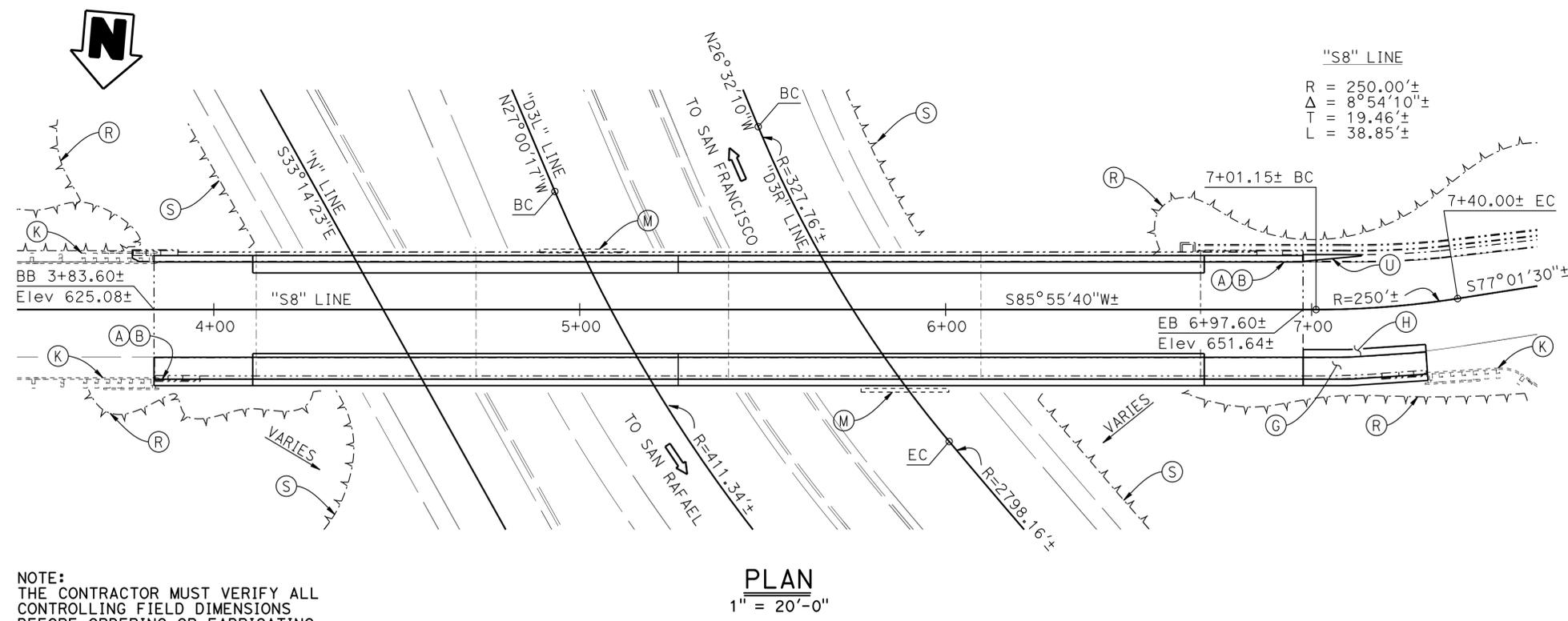
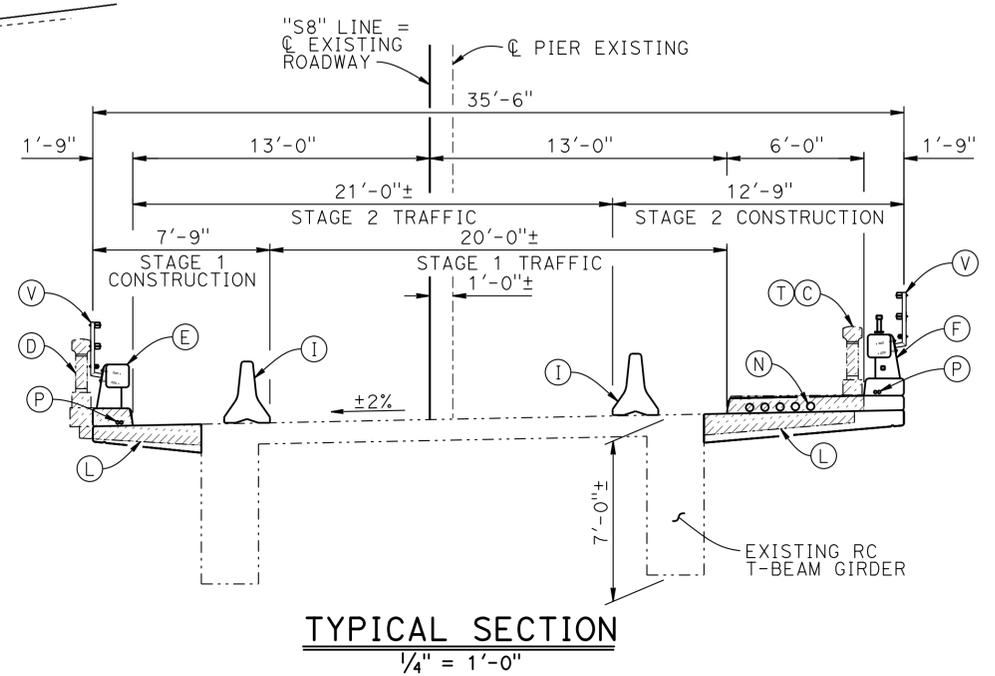
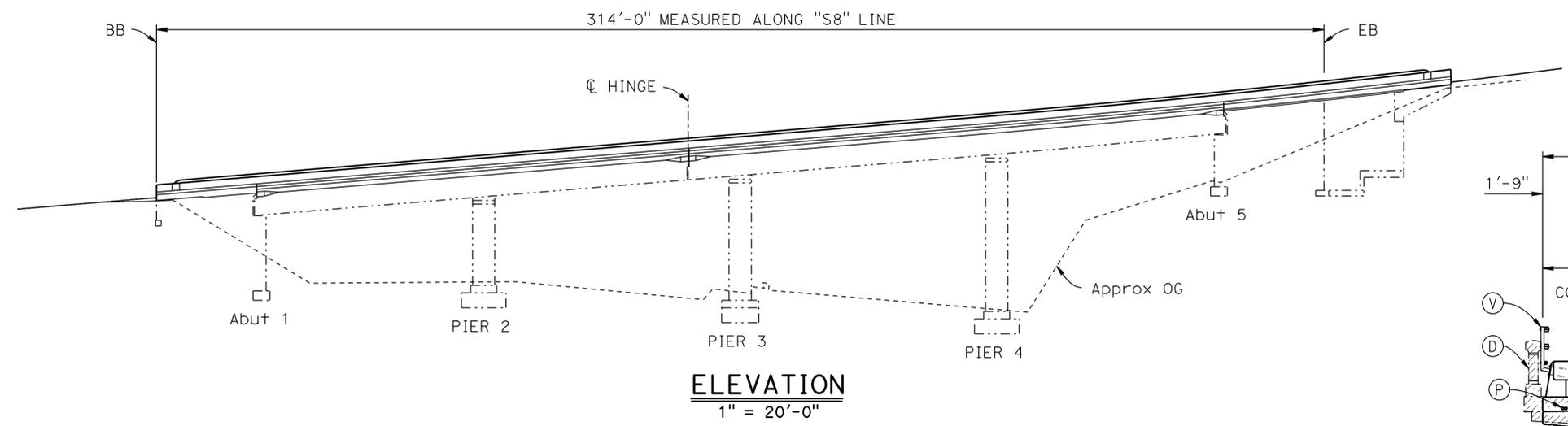
BRIDGE NO.	27-0008
POST MILE	8.47

CORTE MADERA CREEK BRIDGES
BARRIER REPLACEMENT / WIDEN
SOFFIT ACCESS OPENING DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	125	149

04-06-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE
 JOHN E. PETERSON
 No. 60724
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:
 ——— Indicates new structure
 - - - - - Indicates existing bridge
 [Hatched Box] Indicates limits of Bridge Removal (Portion)



- NOTES:
- (A) Paint "SPENCER AVE OC"
 - (B) Paint "Bridge No. 27-0066"
 - (C) Existing concrete baluster railing with sidewalk to be removed
 - (D) Existing concrete baluster railing to be removed
 - (E) Concrete Barrier Type 80 (Modified) with stain treatment
 - (F) Concrete Barrier Type 80SW (Modified) with stain treatment
 - (G) RC barrier slab
 - (H) Hot Mix Asphalt, see "Roadway Plans"
 - (I) Temporary Railing Type "K", see "Roadway Plans"
 - (K) MGS, see "Roadway Plans"
 - (L) Replace RC overhang
 - (M) Bridge mounted sign (remove and replace), see "Roadway Plans"
 - (N) 5-4" conduit total round opening for utilities, see "Roadway Plans"
 - (P) 2-1/2" electrical conduit, see "Roadway Plans"
 - (R) Top of fill
 - (S) Toe of fill
 - (T) Existing utilities in sidewalk to be relocated, see "Roadway Plans"
 - (U) Concrete Barrier Type 60D (Modified)
 - (V) Tubular Bicycle Railing

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

Nora Kyo
 DESIGN ENGINEER

DESIGN	BY John E. Peterson	CHECKED Muthanna Omran
DETAILS	BY Franklin Maagma	CHECKED Muthanna Omran
QUANTITIES	BY Rodelio Baluyot	CHECKED John E. Peterson

LOAD & RESISTANCE FACTOR DESIGN	BY John E. Peterson	CHECKED John E. Peterson
LAYOUT	BY Trinh Lai	CHECKED Sharon Hansen
SPECIFICATIONS	BY Sharon Hansen	CHECKED Sharon Hansen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 16

BRIDGE NO. 27-0066
 POST MILE 1.52

SPENCER AVE OVERCROSSING
BARRIER REPLACEMENT / WIDEN
GENERAL PLAN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	126	149

John E. Peterson 04-06-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE

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 No. 60724
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INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	GENERAL PLAN LAYOUT
4	REMOVAL DETAILS
5	APPROACH SPAN DETAILS NO. 1
6	APPROACH SPAN DETAILS NO. 2
7	APPROACH SPAN DETAILS NO. 3
8	MAIN SPAN DETAILS NO. 1
9	MAIN SPAN DETAILS NO. 2
10	BARRIER SLAB DETAILS NO. 1
11	BARRIER SLAB DETAILS NO. 2
12	JOINT ARMOR FOR PEDESTRIAN WALKWAYS
13	TUBULAR BICYCLE RAILING DETAILS

GENERAL NOTE

DESIGN:
 CALTRANS BRIDGE DESIGN SPECIFICATIONS
 LFD Version April 2000 (1996 AASHTO with
 interims and Revisions by Caltrans)

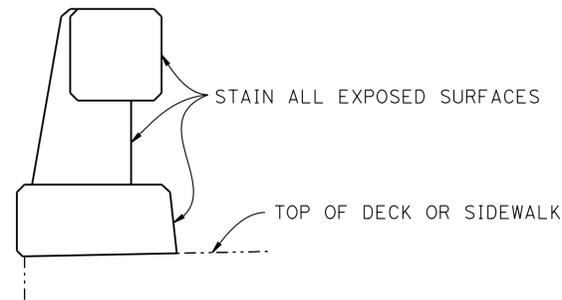
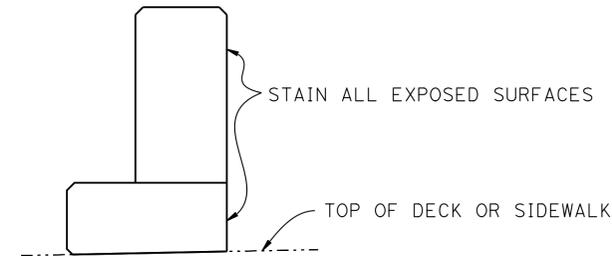
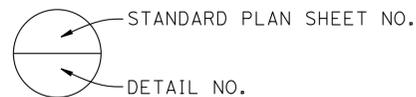
RAILING LOAD:
 27 kips traffic collision load (LRFD Loading)
 applied laterally at the top of the barrier.

REINFORCED CONCRETE:
 $f_y = 60,000$ psi
 $f'_c = 4000$ psi
 $n = 8$

DEAD:
 Does not include future wearing surface.

STANDARD PLANS DATED 2010

A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
RSP B11-60	CONCRETE BARRIER TYPE 80 (SHEET 1 OF 2)
B11-61	CONCRETE BARRIER TYPE 80 (SHEET 2 OF 2)
RSP B11-62	CONCRETE BARRIER TYPE 80SW (SHEET 1 OF 3)
B11-63	CONCRETE BARRIER TYPE 80SW (SHEET 2 OF 3)
B11-64	CONCRETE BARRIER TYPE 80SW (SHEET 3 OF 3)



(TYPICAL ALL CONCRETE BARRIERS)
STAIN CONCRETE LIMITS
 NO SCALE

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION F	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	141	CY
STRUCTURAL CONCRETE, BARRIER SLAB	22	CY
DRILL AND BOND DOWEL	1,229	LF
JOINT SEAL (MR 1")	115	LF
BAR REINFORCING STEEL (BRIDGE)	43,300	LB
PREPARE AND STAIN CONCRETE	5,010	SQFT
MISCELLANEOUS METAL (BRIDGE)	403	LB
CONCRETE BARRIER (TYPE 60D MODIFIED)	16	LF
CONCRETE BARRIER (TYPE 80 MODIFIED)	402	LF
CONCRETE BARRIER (TYPE 80SW MODIFIED)	260	LF
TUBULAR BICYCLE RAILING	649	LF

NOTE:
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 CONTROLLING FIELD DIMENSIONS
 BEFORE ORDERING OR FABRICATING
 ANY MATERIAL

DESIGN BY John E. Peterson CHECKED Muthanna Omran DETAILS BY Franklin Maagma CHECKED Muthanna Omran QUANTITIES BY Rodelio Baluyot CHECKED John E. Peterson				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 16	BRIDGE NO. 27-0066 POST MILE 1.52	SPENCER AVE OVERCROSSING BARRIER REPLACEMENT / WIDEN INDEX TO PLAN			
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3617 PROJECT NUMBER & PHASE: 04120004801	CONTRACT NO.: 04-4G4604	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 1-28-15 3-4-15 4-2-15	SHEET 2	OF 13

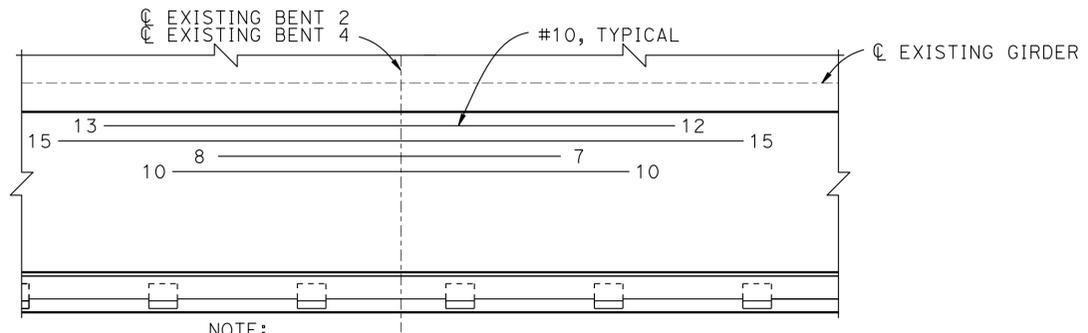
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	127	149

		04-06-15
REGISTERED CIVIL ENGINEER	DATE	
PLANS APPROVAL DATE: 4-27-15		
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REGISTERED PROFESSIONAL ENGINEER
 JOHN E. PETERSON
 No. 60724
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

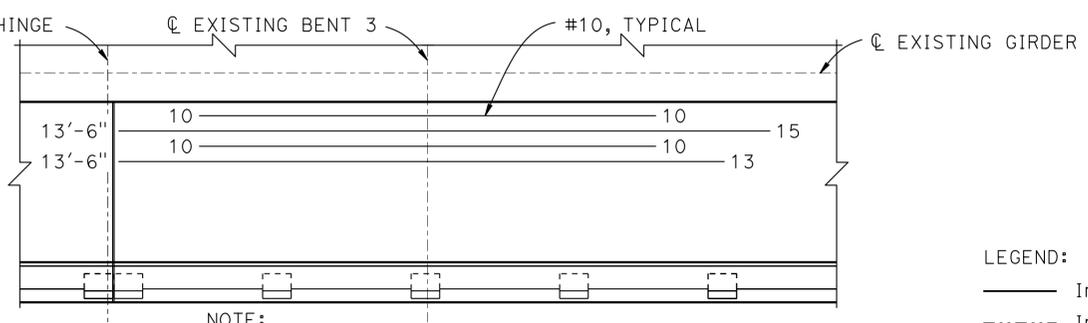
NOTES:

1. For "SECTION A-A", see "REMOVAL DETAILS" sheet
2. For "SECTION B-B", see "REMOVAL DETAILS" and "APPROACH SPAN DETAILS NO. 1" sheets
3. For "SECTION C-C", see "BARRIER SLAB DETAILS NO. 1" sheet
4. For "SECTION D-D", see "REMOVAL DETAILS" and "APPROACH SPAN DETAILS NO. 2" sheets
5. For "SECTION E-E", see "REMOVAL DETAILS" and "MAIN SPAN DETAILS NO. 1" sheets
6. For "SECTION F-F", see "REMOVAL DETAILS" and "APPROACH SPAN DETAILS NO. 3" sheets
7. For "SECTION G-G", see "APPROACH SPAN DETAILS NO. 3" sheet
8. For "SECTION H-H", see "REMOVAL DETAILS", and "BARRIER SLAB DETAILS NO. 2" sheets
9. For "SECTION I-I", see "REMOVAL DETAILS" and "BARRIER SLAB DETAILS NO. 2" sheets
10. For "SECTION VIEW K-K", see "APPROACH SPAN DETAILS NO. 3" sheet
11. For "SECTION L-L", see "MAIN SPAN DETAILS NO. 2" sheet
12. For "DETAIL 3", see "APPROACH SPAN DETAILS NO. 3" sheet



NOTE:
Right side shown, left side similar

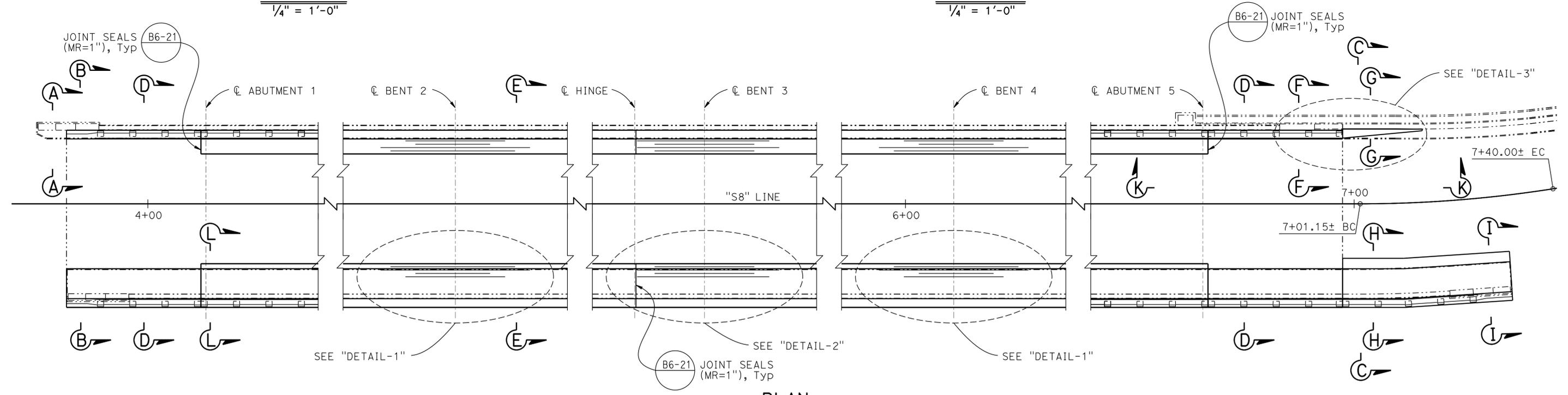
DETAIL 1
1/4" = 1'-0"



NOTE:
Right side shown, left side similar

DETAIL 2
1/4" = 1'-0"

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



PLAN
1" = 10'-0"

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

DESIGN	BY John E. Peterson	CHECKED Muthanna Omran
DETAILS	BY Franklin Maagma	CHECKED Muthanna Omran
QUANTITIES	BY Rodelio Baluyot	CHECKED John E. Peterson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 16

BRIDGE NO.	27-0066
POST MILE	1.52

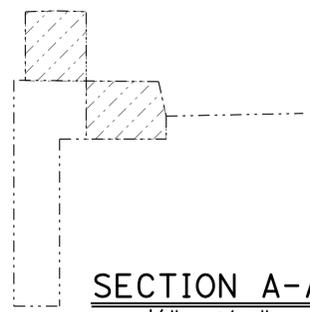
**SPENCER AVE OVERCROSSING
BARRIER REPLACEMENT / WIDEN
GENERAL PLAN LAYOUT**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	128	149

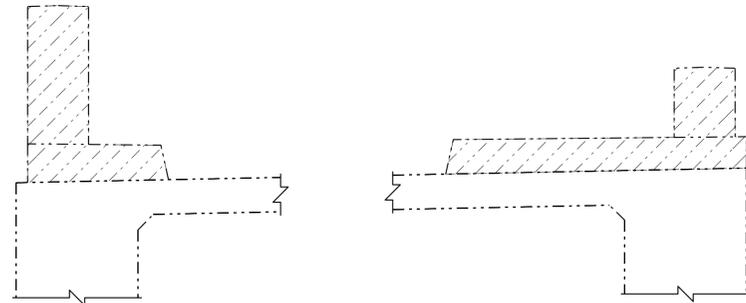
04-06-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE
 JOHN E. PETERSON
 No. 60724
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:
 ——— Indicates new structure
 - - - - - Indicates existing structure
 [Hatched] Indicates Bridge Removal (Portion)

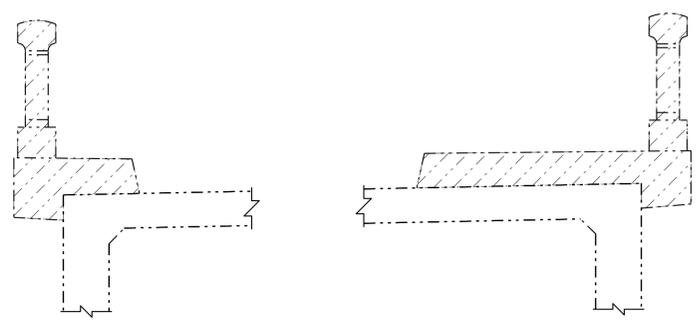
NOTE:
 1. All station limits and dimensions are approximate



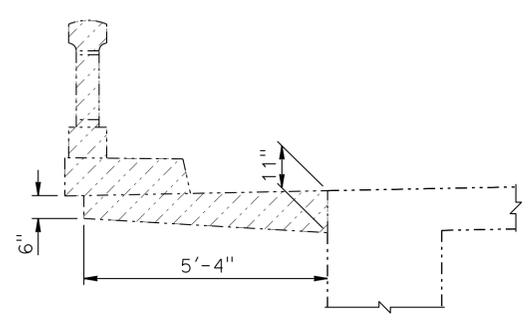
SECTION A-A
 $\frac{1}{2}'' = 1'-0''$
 LEFT SIDE, STATIONS 3+77.60 TO 3+83.60



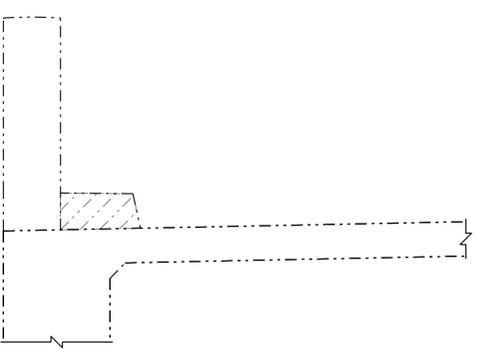
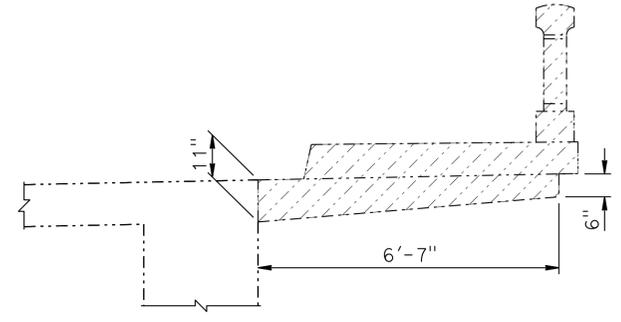
SECTION B-B
 $\frac{1}{2}'' = 1'-0''$
 LEFT SIDE, STATIONS 3+83.60 TO 3+90.10
 RIGHT SIDE, STATIONS 3+83.60 TO 3+96.10



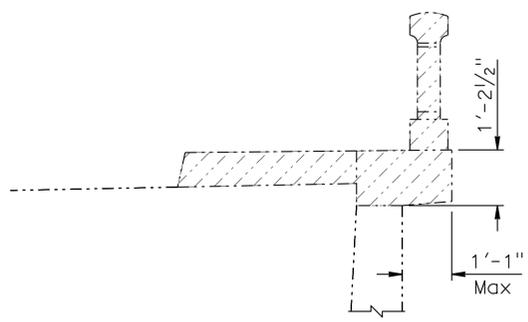
SECTION D-D
 $\frac{1}{2}'' = 1'-0''$
 LEFT SIDE, STATIONS 3+90.10 TO 4+10.60
 LEFT SIDE, STATIONS 6+70.60 TO 6+85.00
 RIGHT SIDE, STATIONS 3+96.10 TO 4+10.60
 RIGHT SIDE, STATIONS 6+70.60 TO 6+97.60



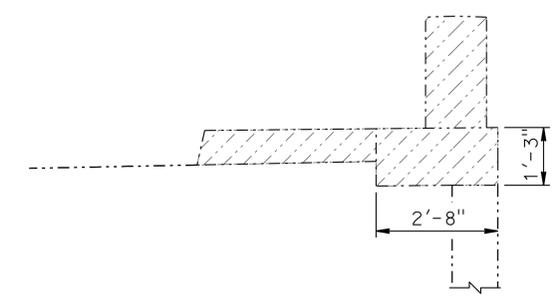
SECTION E-E
 $\frac{1}{2}'' = 1'-0''$
 STATIONS 4+10.60 TO 6+70.60



SECTION F-F
 $\frac{1}{2}'' = 1'-0''$
 LEFT SIDE, STATIONS 6+85.00 TO 6+97.60



SECTION H-H
 $\frac{1}{2}'' = 1'-0''$
 RIGHT SIDE, STATIONS 6+97.60 TO 7+17.94



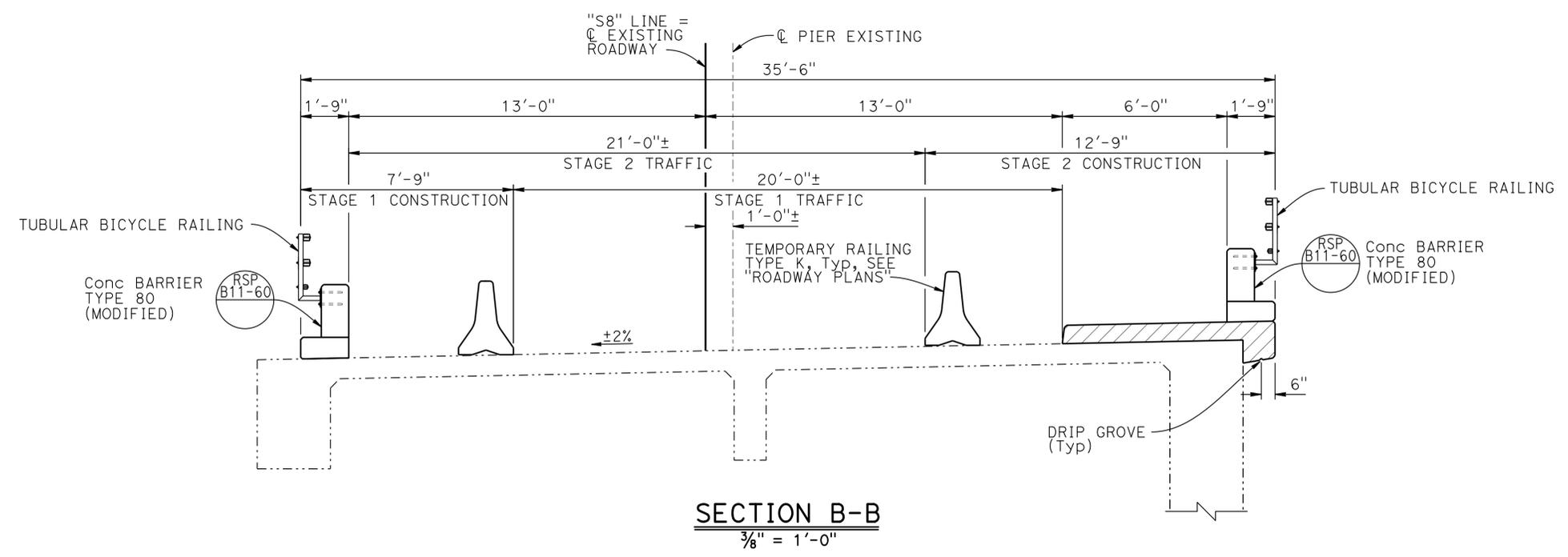
SECTION I-I
 $\frac{1}{2}'' = 1'-0''$
 RIGHT SIDE, STATIONS 7+17.94 TO 7+29.59

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

DESIGN BY John E. Peterson CHECKED Muthanna Omran DETAILS BY Franklin Maagma CHECKED Muthanna Omran QUANTITIES BY Rodelio Baluyot CHECKED John E. Peterson				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 16	BRIDGE NO. 27-0066 POST MILE 1.52	SPENCER AVE OVERCROSSING BARRIER REPLACEMENT / WIDEN REMOVAL DETAILS
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3617 PROJECT NUMBER & PHASE: 04120004801	CONTRACT NO.: 04-4G4604	DISREGARD PRINTS BEARING EARLIER REVISION DATES
				0 1 2 3	1-28-15 3-4-15 3-12-15	SHEET 4 OF 13	USERNAME => s131974 DATE PLOTTED => 27-MAY-2015 TIME PLOTTED => 14:10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	129	149

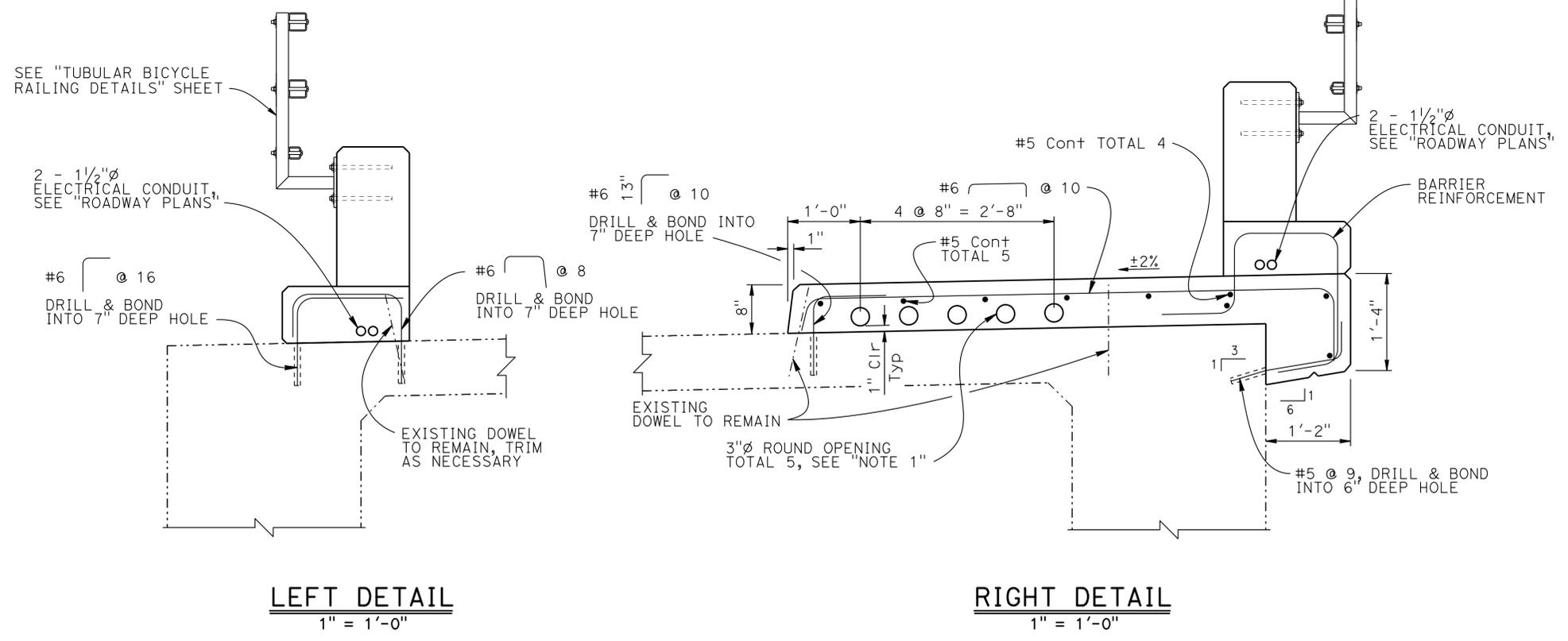
04-06-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE
 JOHN E. PETERSON
 No. 60724
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:
 ——— Indicates new structure
 - - - - - Indicates existing structure
 ▨ Structural Concrete, Bridge

NOTES:
 1. Openings must be placed at location shown
 2. Station limits are approximate

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



LEFT DETAIL
1" = 1'-0"

RIGHT DETAIL
1" = 1'-0"

NOTE:
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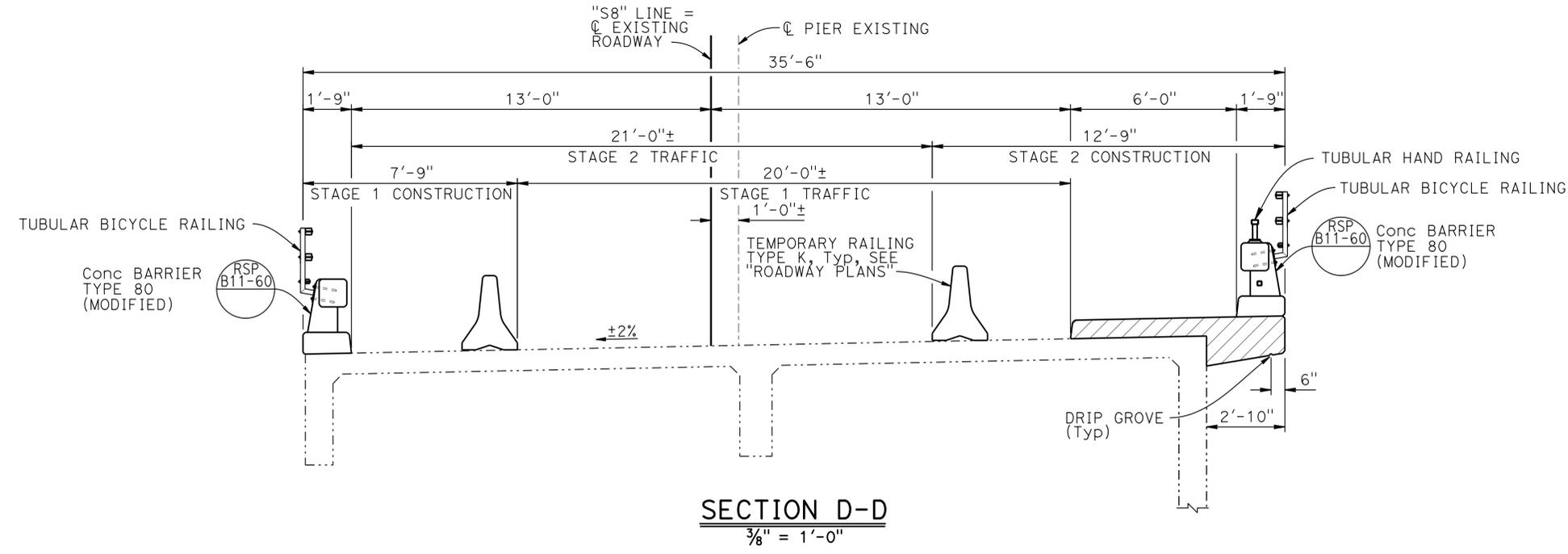
STATIONS 3+83.60 TO 3+90.10

STATIONS 3+83.60 TO 3+96.10

SPENCER AVE OVERCROSSING BARRIER REPLACEMENT / WIDEN APPROACH SPAN DETAILS NO. 1				BRIDGE NO. 27-0066 POST MILE 1.52	
DESIGN BY John E. Peterson CHECKED Muthanna Omran DETAILS BY Franklin Maagma CHECKED Muthanna Omran QUANTITIES BY Rodelio Baluyot CHECKED John E. Peterson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 16		UNIT: 3617 PROJECT NUMBER & PHASE: 04120004801
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CONTRACT NO.: 04-4G4604
DISREGARD PRINTS BEARING EARLIER REVISION DATES				REVISION DATES: 1-28-15, 3-11-15, 3-23-15, 4-2-15	
SHEET 5 OF 13				FILE => 27-0066-u-miscd+01.dgn	

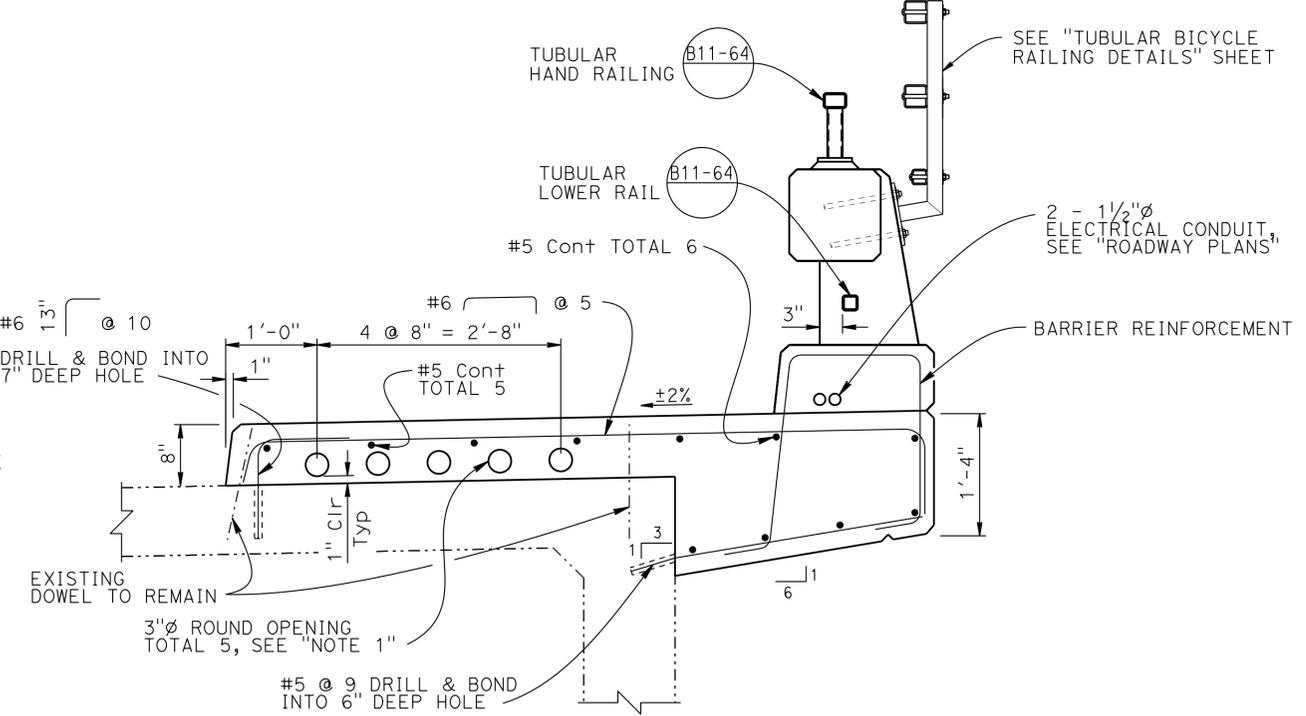
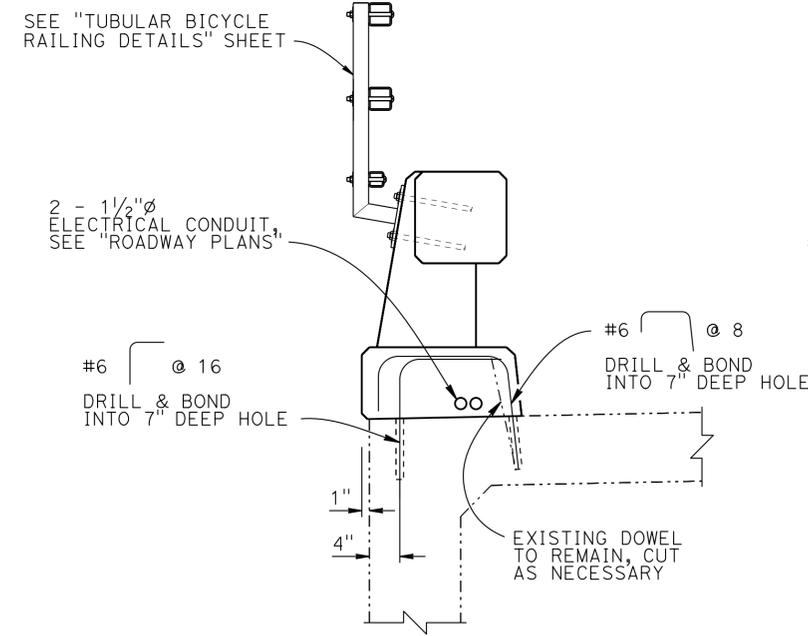
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	130	149

04-06-15
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- LEGEND:**
- Indicates new structure
 - - - Indicates existing structure
 - ▨ Structural Concrete, Bridge

- NOTES:**
- Openings must be placed at location shown
 - Station limits are approximate



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

STATIONS 3+90.10 TO 4+10.60 AND STATIONS 6+70.60 TO 6+85.00

STATIONS 3+96.10 TO 4+10.60 AND STATIONS 6+70.60 TO 6+97.60

SPENCER AVE OVERCROSSING

BARRIER REPLACEMENT / WIDEN

APPROACH SPAN DETAILS NO. 2

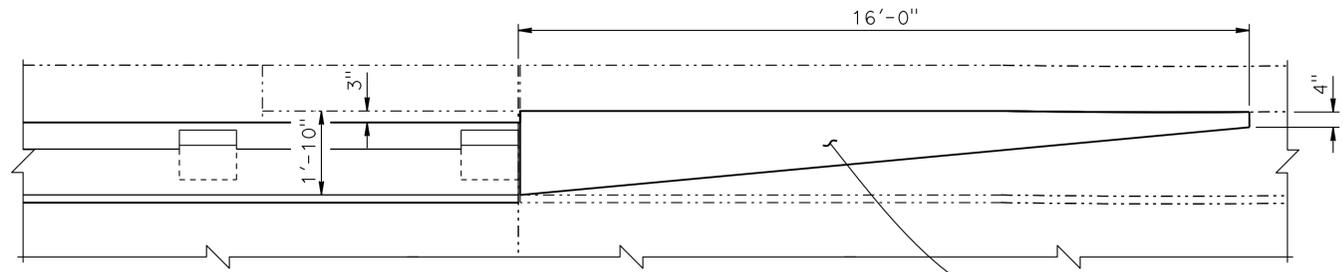
DESIGN	BY John E. Peterson	CHECKED Muthanna Omran
DETAILS	BY Franklin Maagma	CHECKED Muthanna Omran
QUANTITIES	BY Rodelio Baluyot	CHECKED John E. Peterson

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 BRIDGE NO. 27-0066
 POST MILE 1.52
 DESIGN BRANCH 16

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	131	149

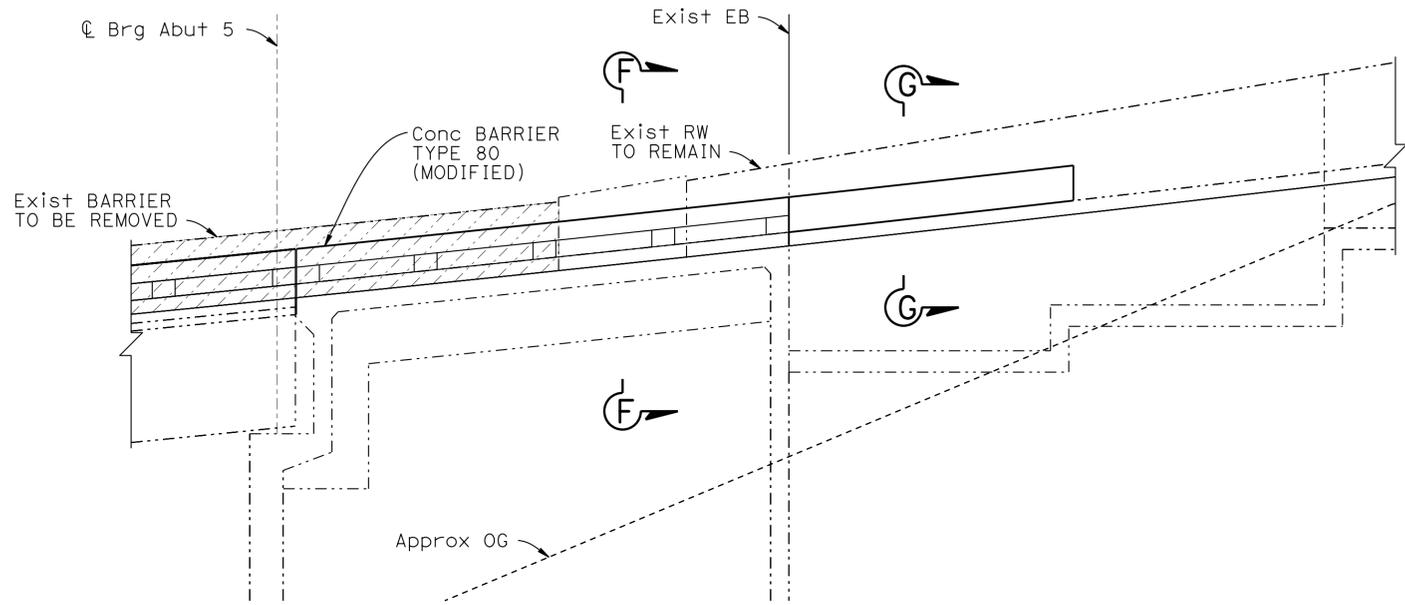
04-06-15
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REGISTERED PROFESSIONAL ENGINEER
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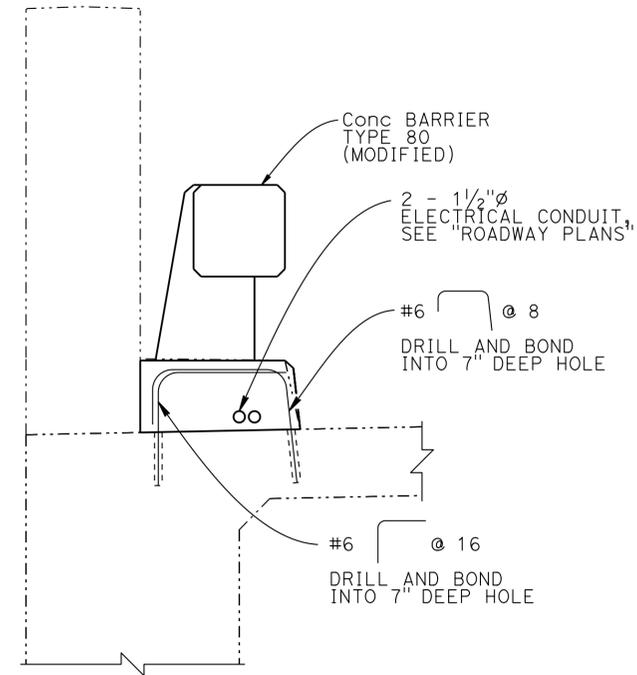


DETAIL 3
1/2" = 1'-0"

CONCRETE BARRIER
TYPE 60D (Mod)



SECTION VIEW K-K
1" = 5'-0"



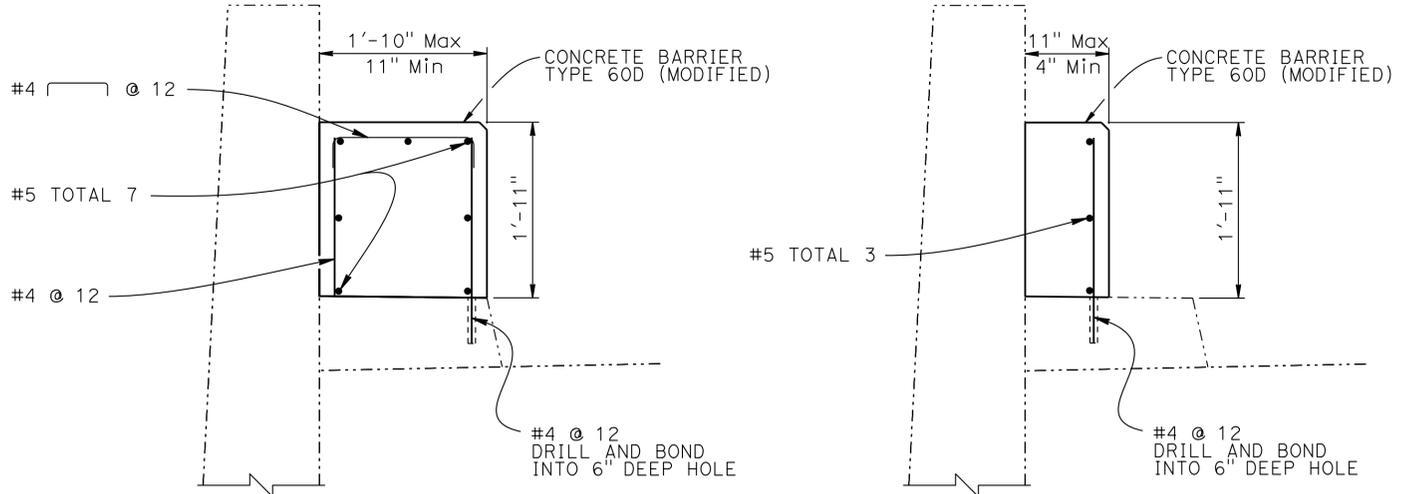
SECTION F-F
1" = 1'-0"

STATIONS 6+85.00 TO 6+97.60

LEGEND:

- Indicates new structure
- - - Indicates existing structure
- ▨ Indicates limits of Bridge Removal (Portion)

NOTE:
1. Station limits are approximate



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

NOTE:
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DESIGN	BY John E. Peterson	CHECKED Muthanna Omran
DETAILS	BY Franklin Maagma	CHECKED Muthanna Omran
QUANTITIES	BY Rodelio Baluyot	CHECKED John E. Peterson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 16

BRIDGE NO.	27-0066
POST MILE	1.52

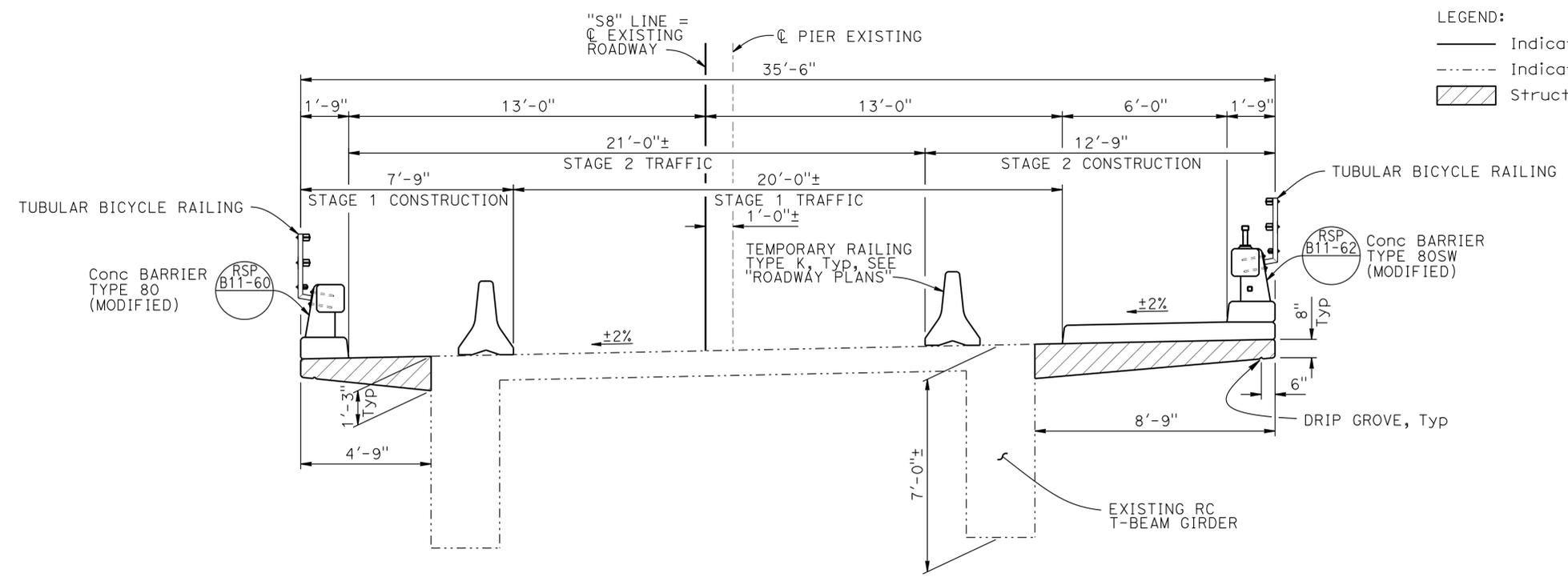
**SPENCER AVE OVERCROSSING
BARRIER REPLACEMENT / WIDEN
APPROACH SPAN DETAILS NO. 3**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	132	149

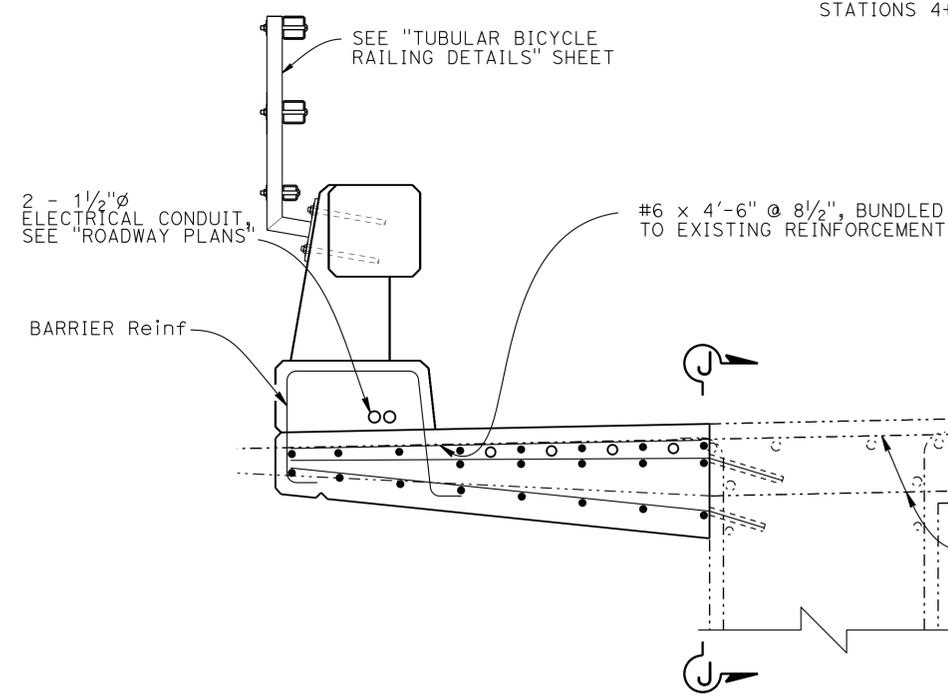
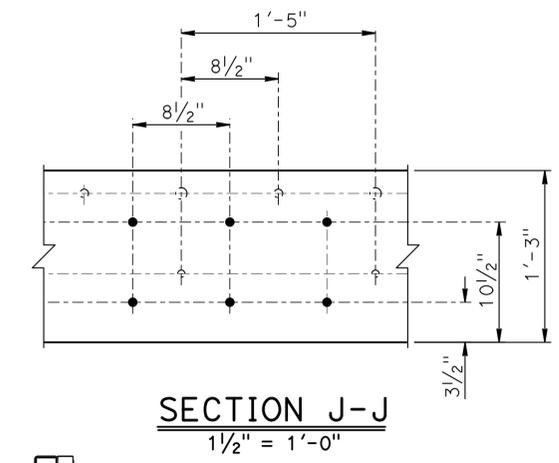
04-06-15
 REGISTERED CIVIL ENGINEER DATE
 JOHN E. PETERSON
 No. 60724
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

4-27-15
 PLANS APPROVAL DATE

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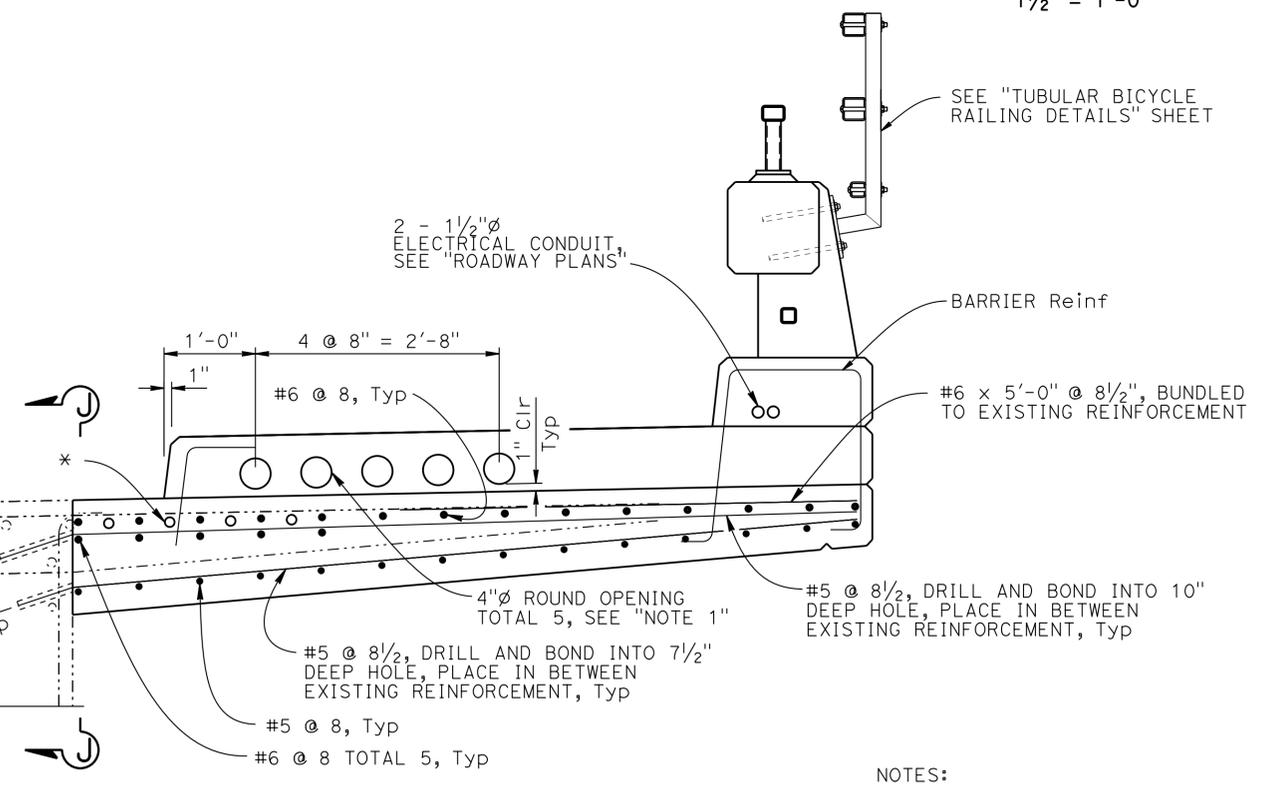


SECTION E-E
 $\frac{3}{8}'' = 1'-0''$
 STATIONS 4+10.60 TO 6+70.60



NOTE:
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NOTE:
 * #10 Girder reinforcement, typical, see "GENERAL PLAN LAYOUT" sheet for details

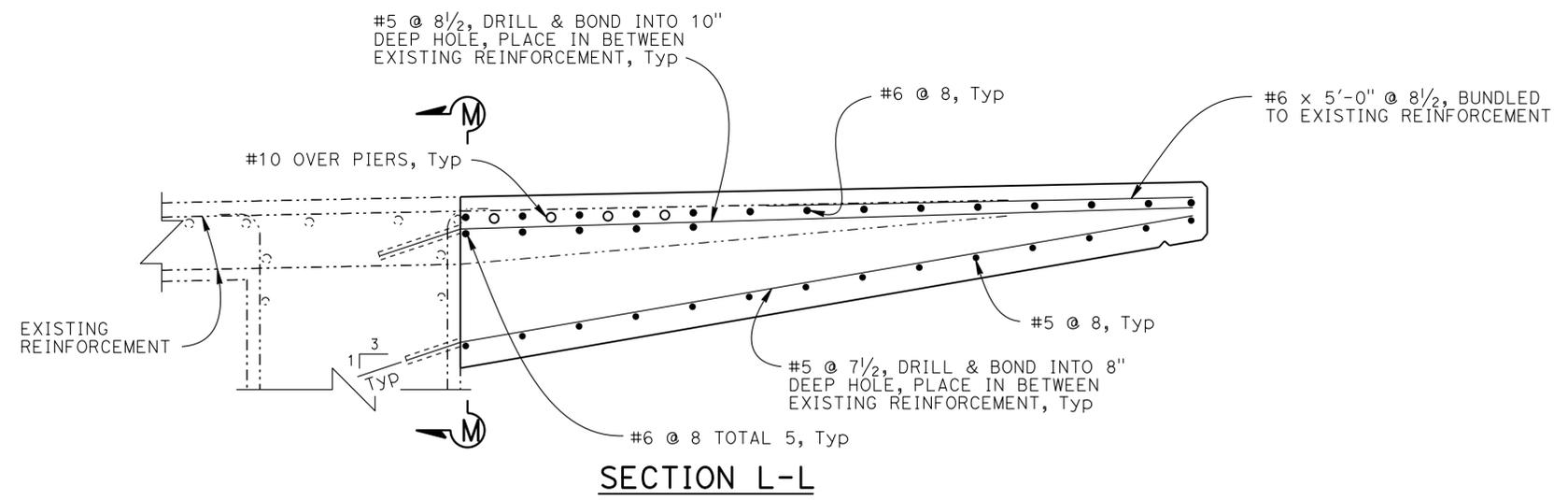


NOTES:
 1. Opening must be placed at location shown
 2. Station limits are approximate

SPENCER AVE OVERCROSSING BARRIER REPLACEMENT / WIDEN MAIN SPAN DETAILS NO. 1				BRIDGE NO. 27-0066 POST MILE 1.52
DESIGN BY John E. Peterson CHECKED Muthanna Omran	DETAILS BY Tony Cotton/F. Maagma CHECKED Muthanna Omran	QUANTITIES BY Rodelio Baluyot CHECKED John E. Peterson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 16
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				UNIT: 3617 PROJECT NUMBER & PHASE: 04120004801 CONTRACT NO.: 04-4G4604
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				DISREGARD PRINTS BEARING EARLIER REVISION DATES
0 1 2 3				REVISION DATES 1-28-15 3-11-15 4-2-15 4-14-15 SHEET 8 OF 13

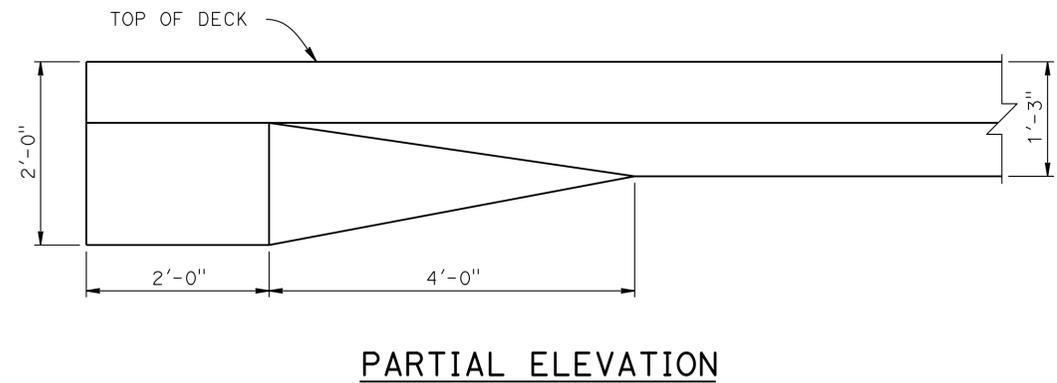
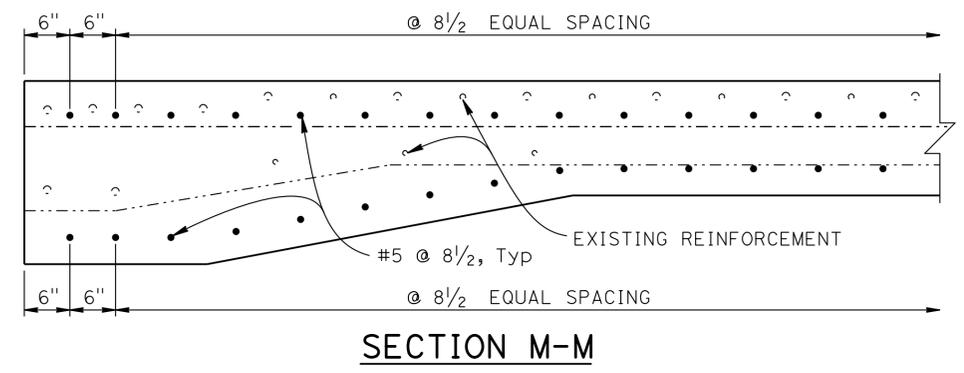
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	133	149

John E. Peterson 04-06-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE
 JOHN E. PETERSON
 No. 60724
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:
 ——— Indicates new structure
 - - - - - Indicates existing structure

NOTE:
 1. Detail typical at deck corners at hinge and abutments (8 locations)



NOTE:
 Barrier not shown for clarity

DECK CORNER AT HINGE OR ABUTMENT DETAILS
 1" = 1'-0"

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

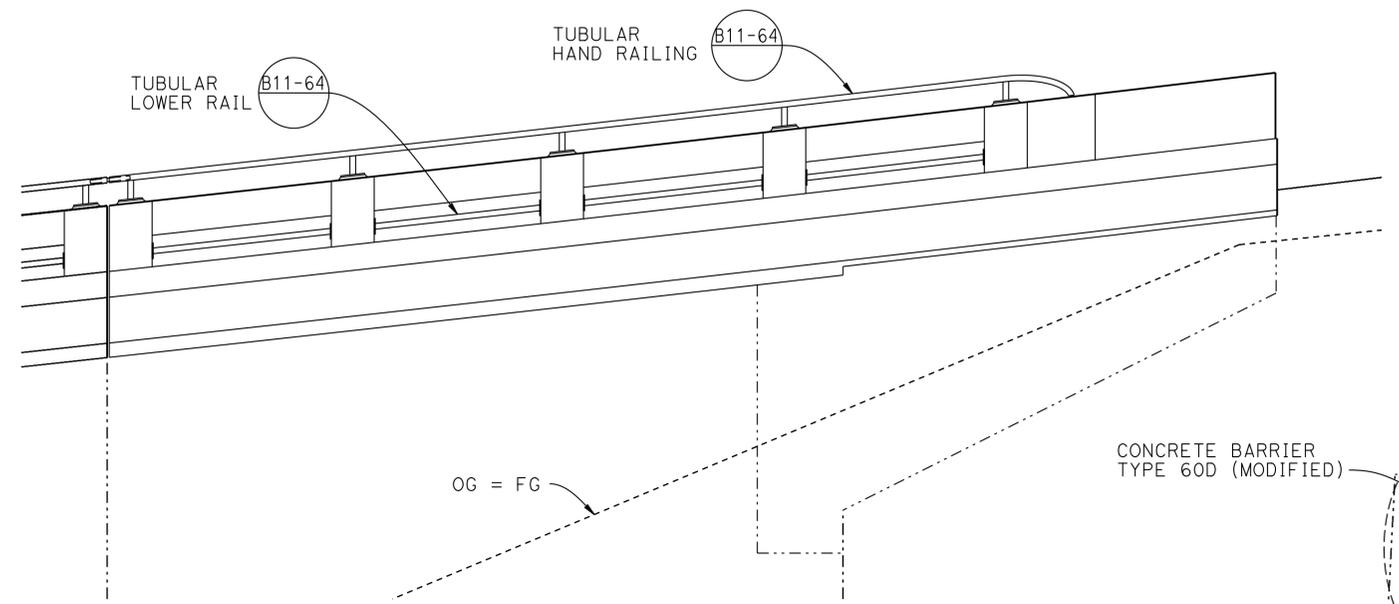
DESIGN BY John E. Peterson CHECKED Muthanna Omran DETAILS BY Franklin Maagma CHECKED Muthanna Omran QUANTITIES BY Rodelio Baluyot CHECKED John E. Peterson				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 16	BRIDGE NO. 27-0066 POST MILE 1.52	SPENCER AVE OVERCROSSING BARRIER REPLACEMENT / WIDEN MAIN SPAN DETAILS NO. 2
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3617 PROJECT NUMBER & PHASE: 04120004801	CONTRACT NO.: 04-4G4604	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES: 1-28-15, 3-12-15 SHEET 9 OF 13

USERNAME => s131974 DATE PLOTTED => 27-MAY-2015 TIME PLOTTED => 14:11

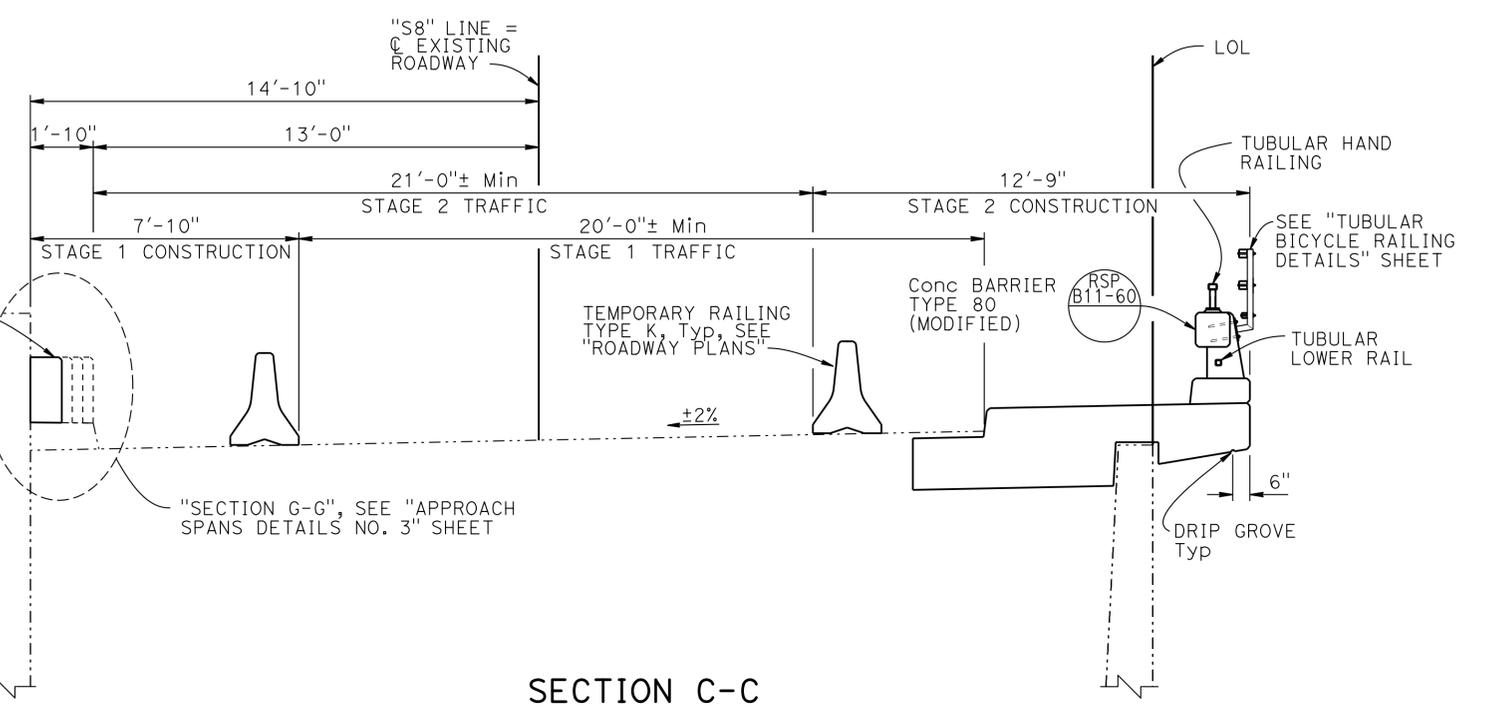
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	134	149

04-06-15
 REGISTERED CIVIL ENGINEER DATE
 JOHN E. PETERSON
 No. 60724
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
 4-27-15
 PLANS APPROVAL DATE
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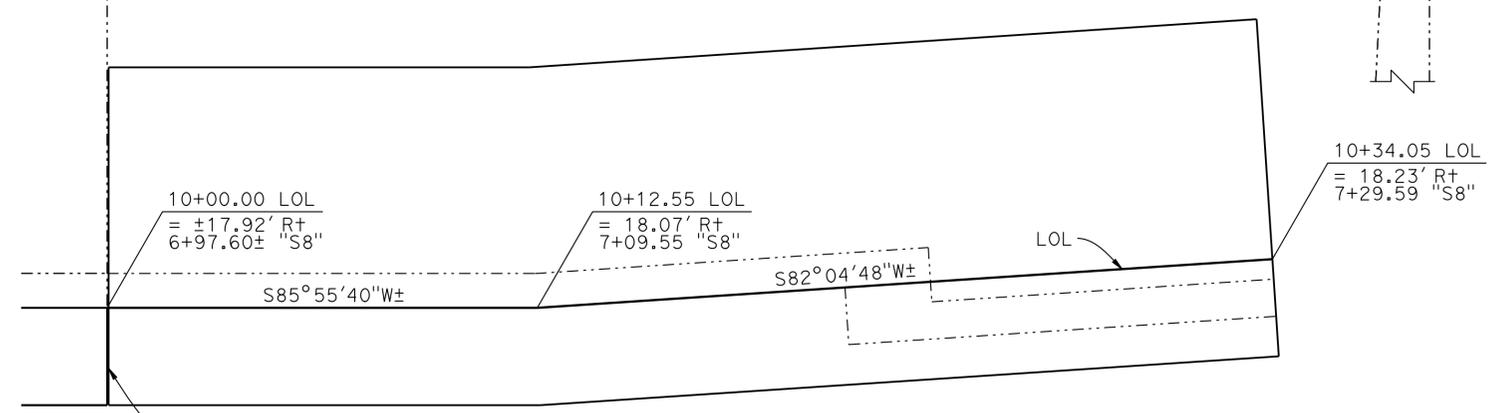
LEGEND:
 ——— Indicates new structure
 - - - - - Indicates existing structure



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



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



BARRIER SLAB PLAN DETAILS
 $\frac{3}{8}'' = 1'-0''$

NOTE:
 Barrier not shown for clarity

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

DESIGN	BY John E. Peterson	CHECKED Muthanna Omran
DETAILS	BY Franklin Maagma	CHECKED Muthanna Omran
QUANTITIES	BY Rodelio Baluyot	CHECKED John E. Peterson

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 16

BRIDGE NO.	27-0066
POST MILE	1.52

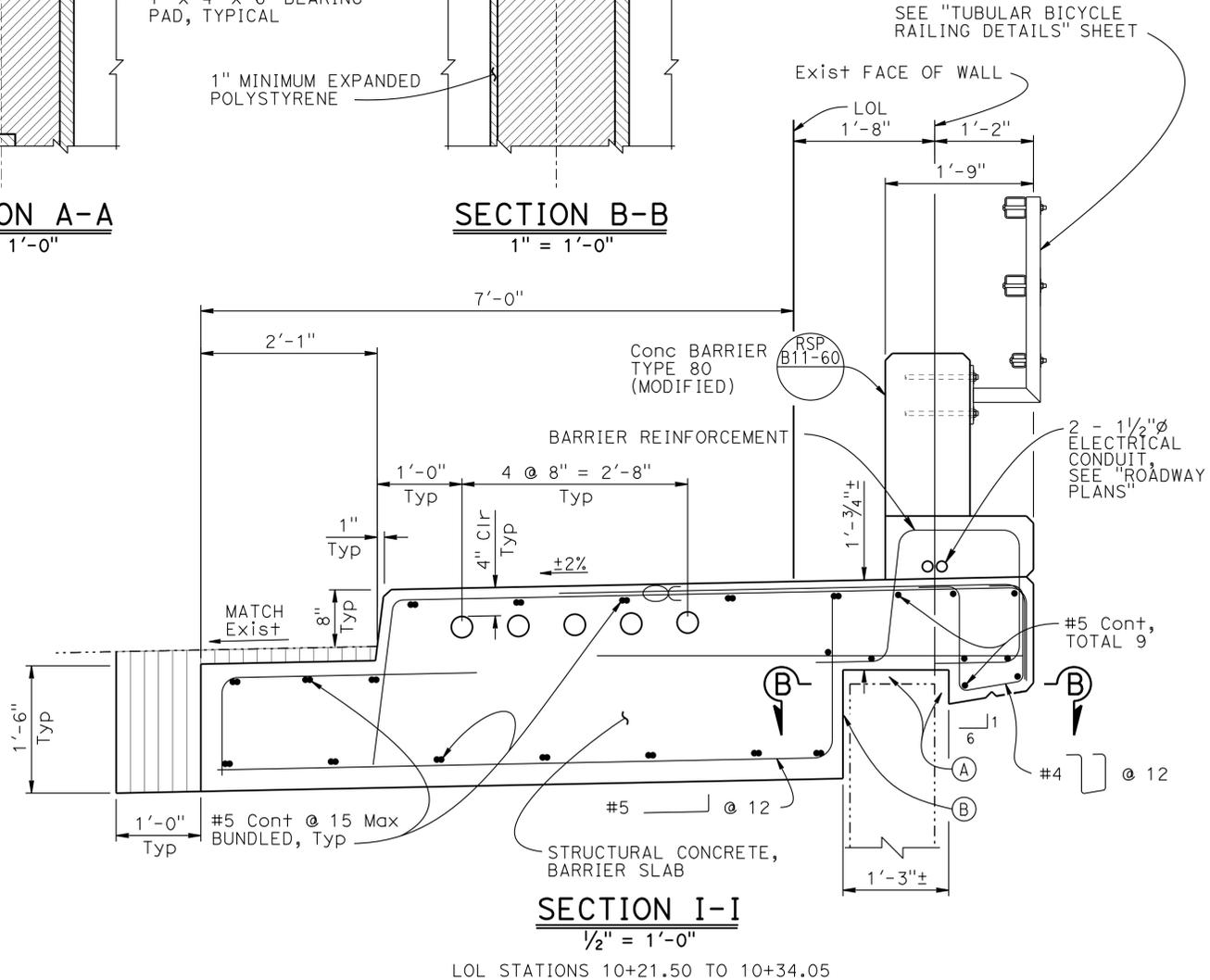
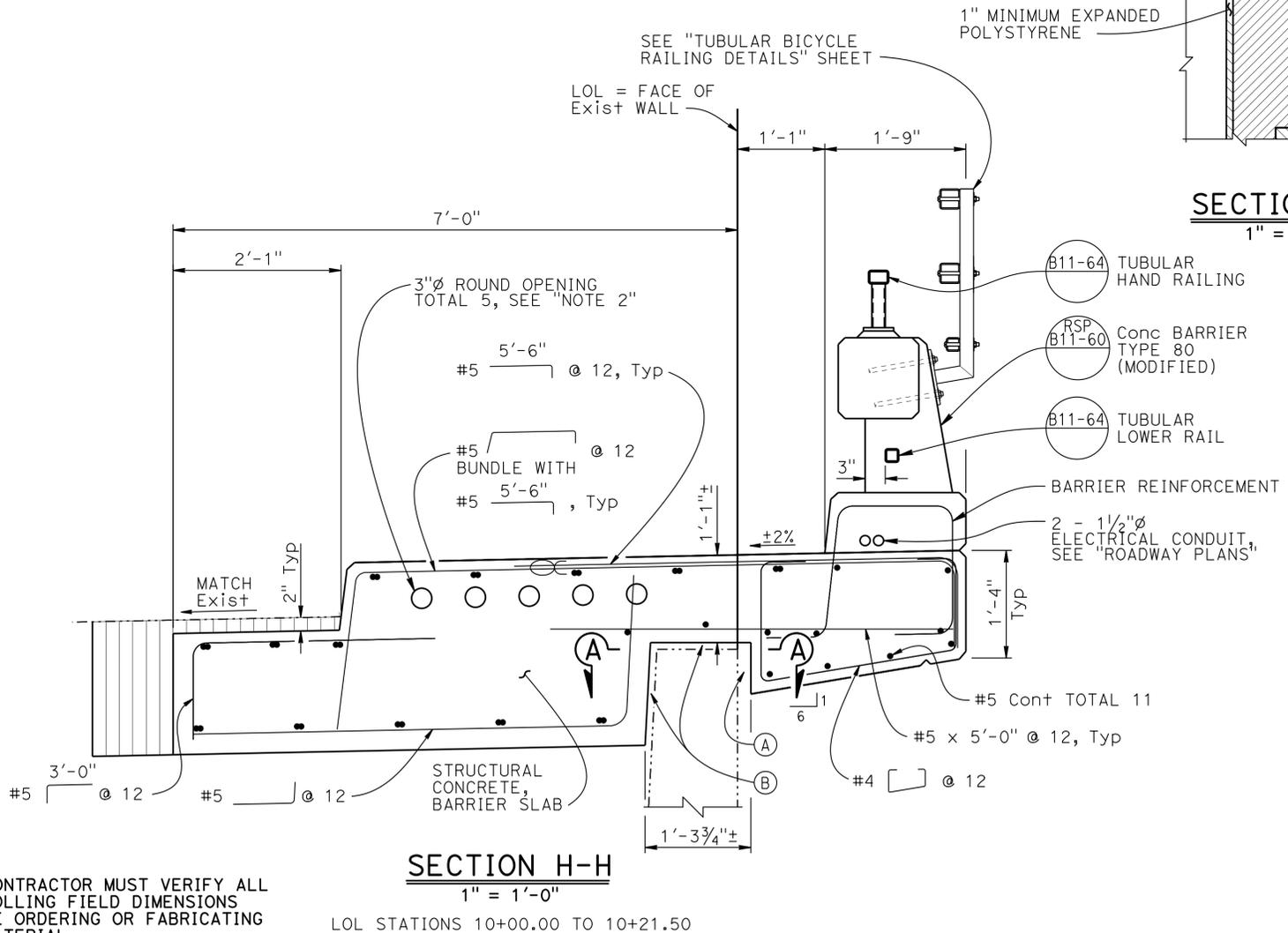
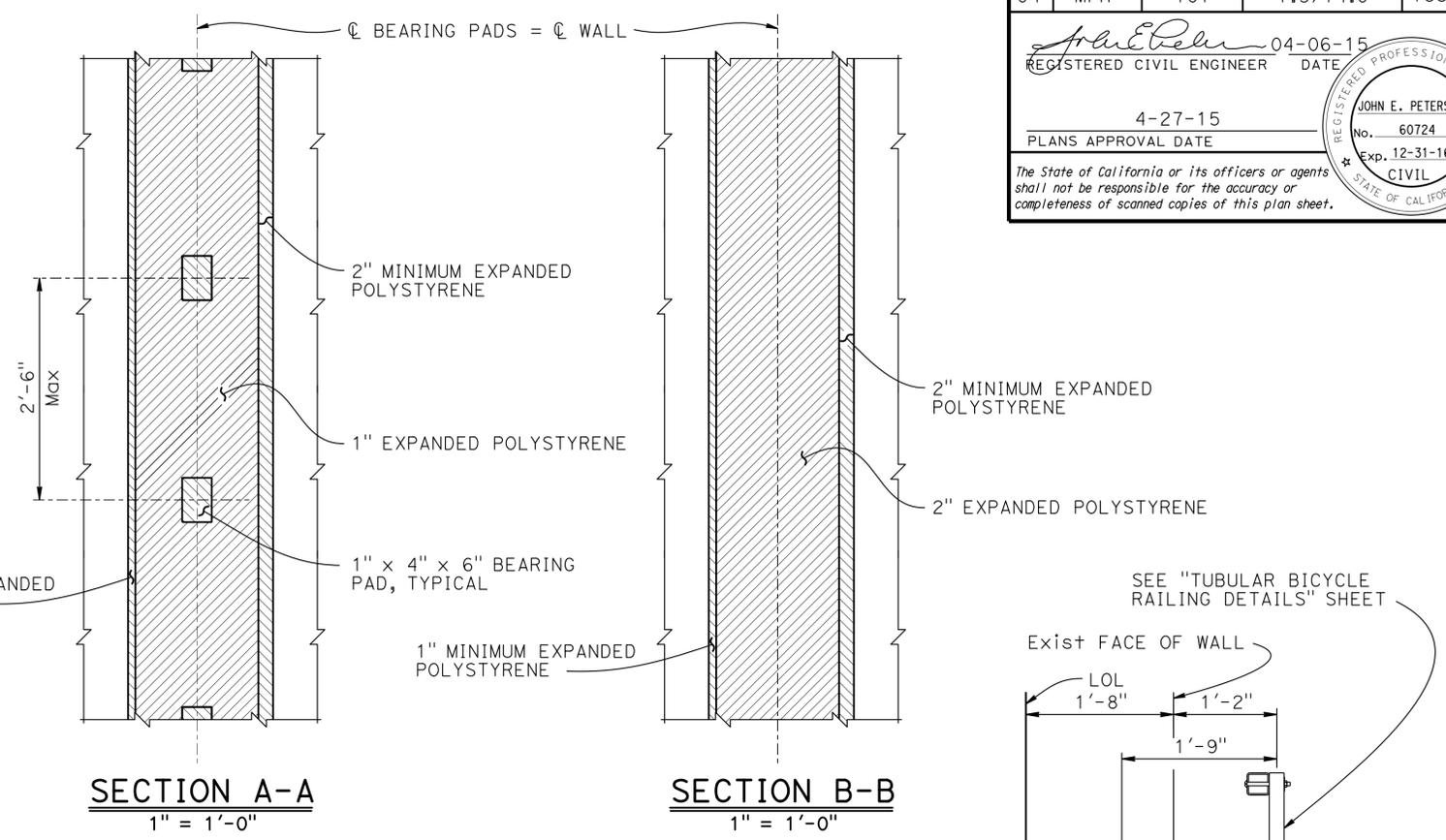
SPENCER AVE OVERCROSSING
BARRIER REPLACEMENT / WIDEN
BARRIER SLAB DETAILS NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	135	149

04-06-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE
 JOHN E. PETERSON
 No. 60724
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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- LEGEND:**
- Indicates new structure
 - - - - - Indicates existing structure
 - ▨ Indicates limits of Hot Mix Asphalt see "Roadway Plans"
 - ∞ Indicates bundled bars

- NOTES:**
- No construction joints
 - Openings must be placed at location shown
 - Station limits are approximate
- (A) 2" minimum expanded polystyrene
(B) 1" expanded polystyrene



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

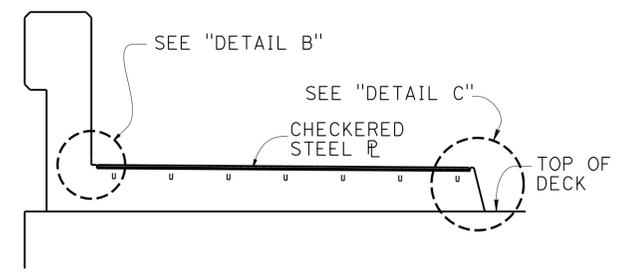
SECTION H-H
1" = 1'-0"
LOL STATIONS 10+00.00 TO 10+21.50

SECTION I-I
1/2" = 1'-0"
LOL STATIONS 10+21.50 TO 10+34.05

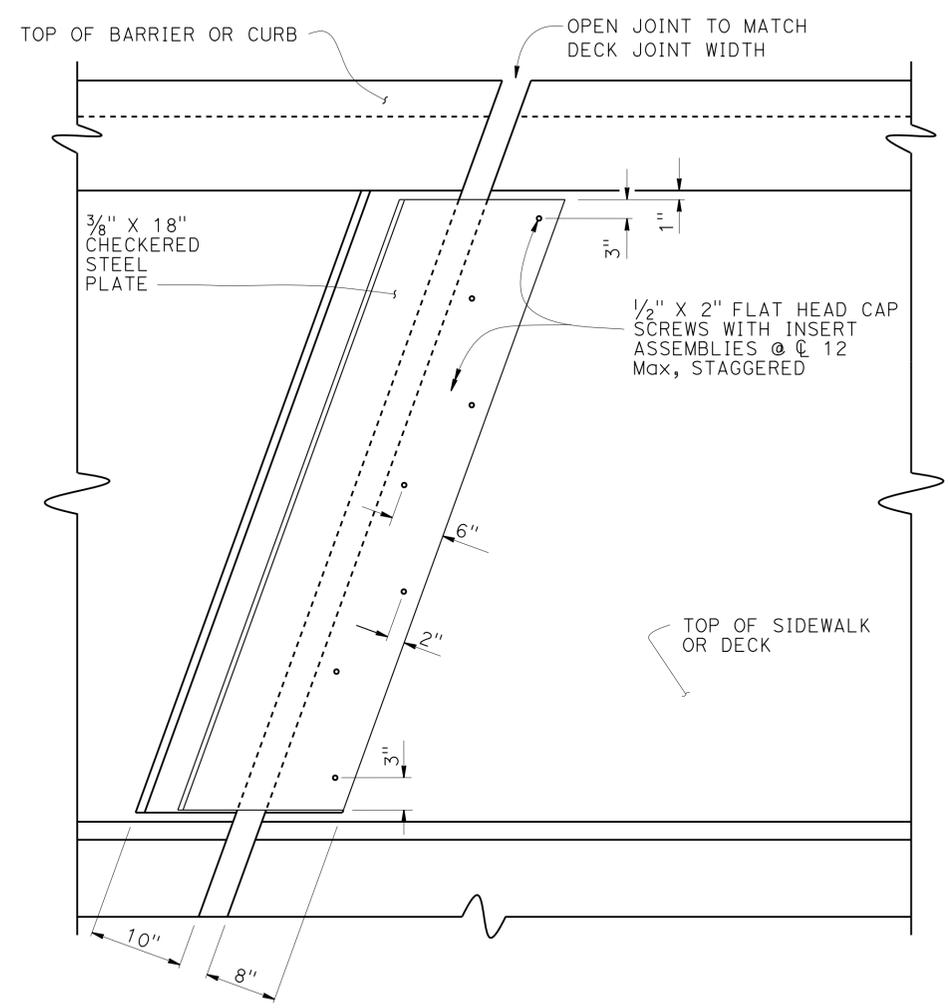
SPENCER AVE OVERCROSSING BARRIER REPLACEMENT / WIDEN BARRIER SLAB DETAILS NO. 2				BRIDGE NO. 27-0066 POST MILE 1.52	
DESIGN	BY John E. Peterson	CHECKED Muthanna Omran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 16		
DETAILS	BY Franklin Maagma	CHECKED Muthanna Omran			
QUANTITIES	BY Rodelio Baluyot	CHECKED John E. Peterson			
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3617 PROJECT NUMBER & PHASE: 04120004801 CONTRACT NO.: 04-4G4604
			DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES SHEET 11 OF 13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	136	149

John E. Peterson 04-06-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE
 JOHN E. PETERSON
 No. 60724
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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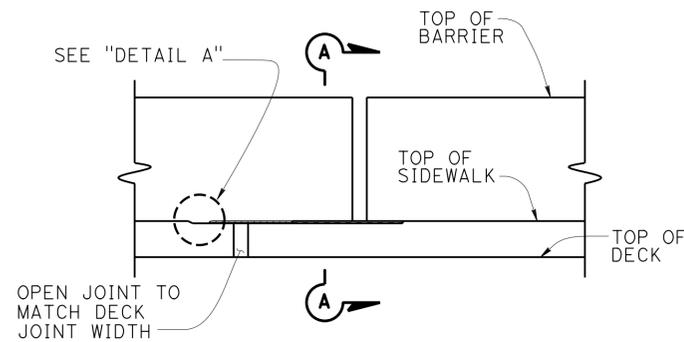


SECTION A-A
NO SCALE

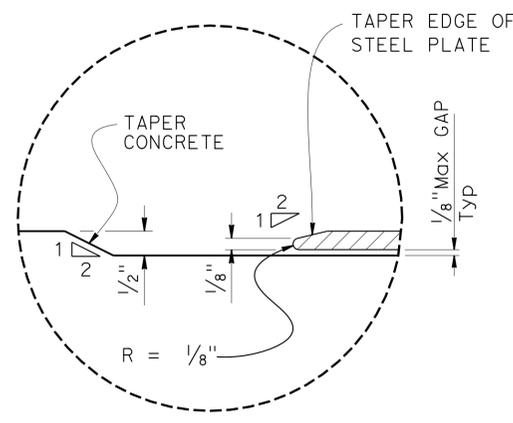


← DIRECTION OF TRAFFIC
PLAN SKEW ≤ 20°
NO SCALE

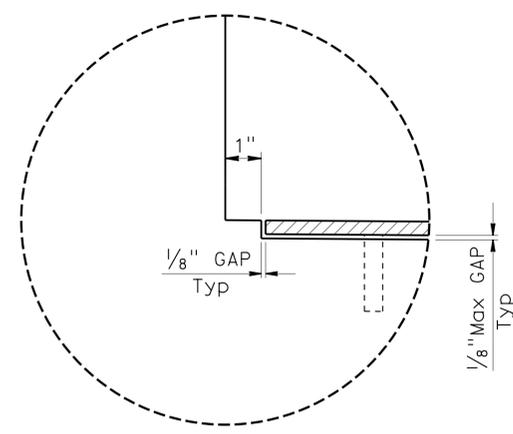
NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL



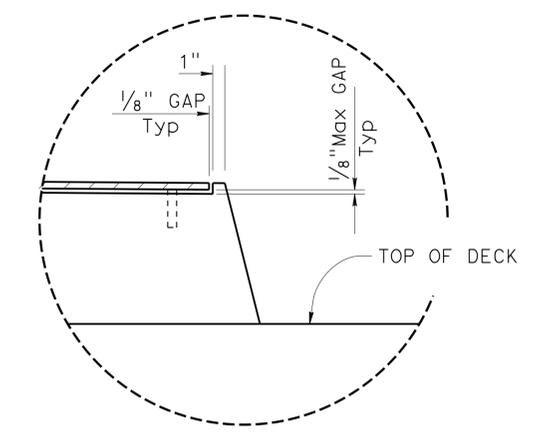
ELEVATION
NO SCALE



DETAIL A
NO SCALE



DETAIL B
NO SCALE



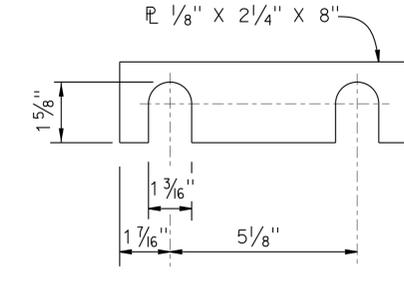
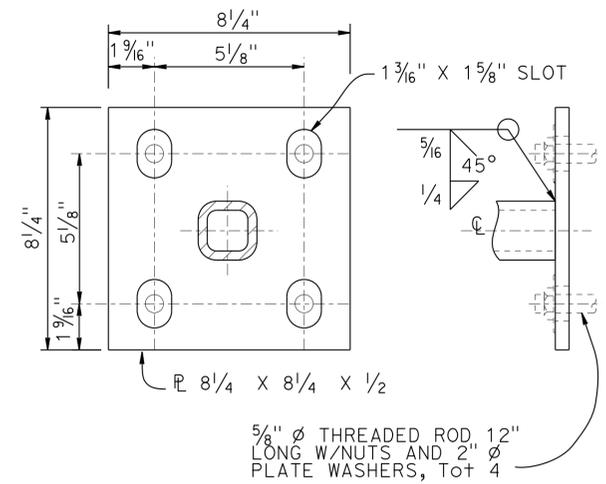
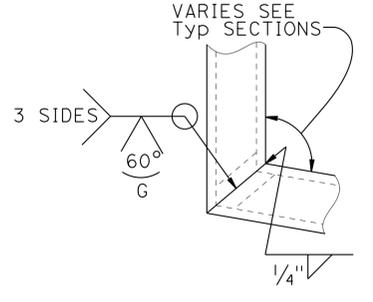
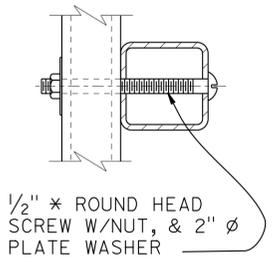
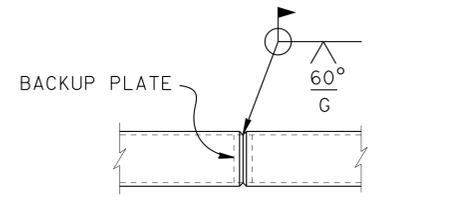
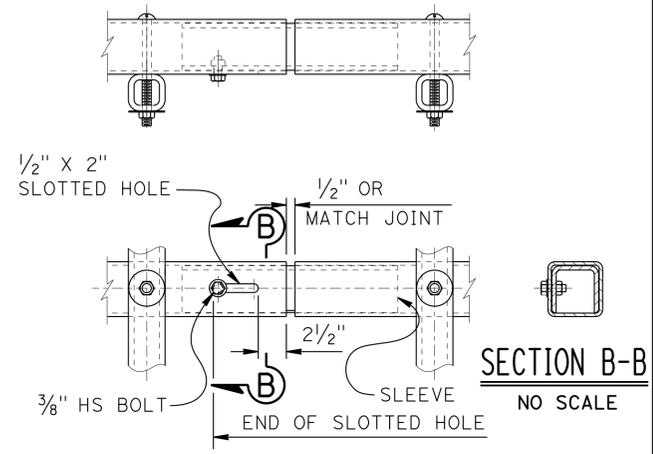
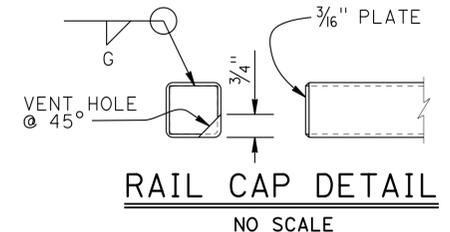
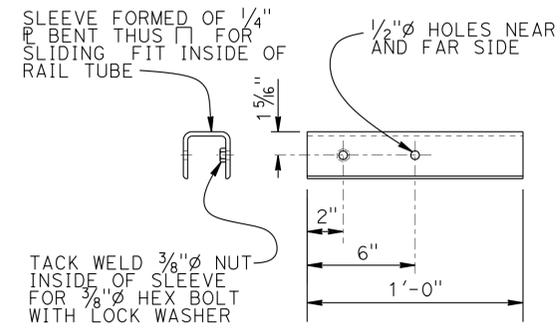
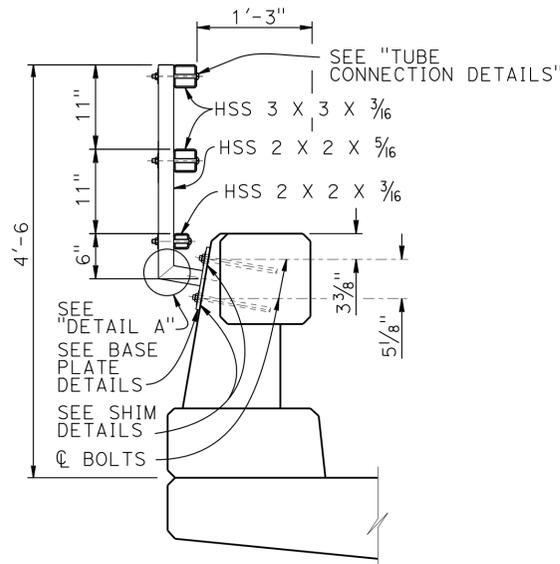
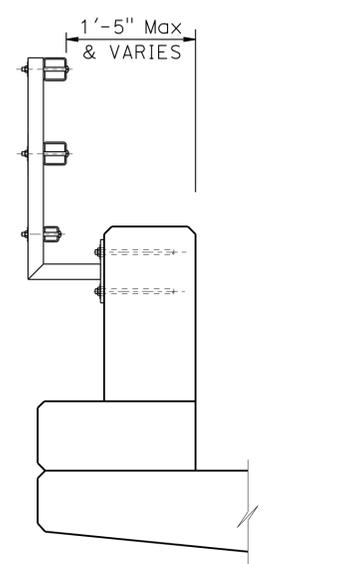
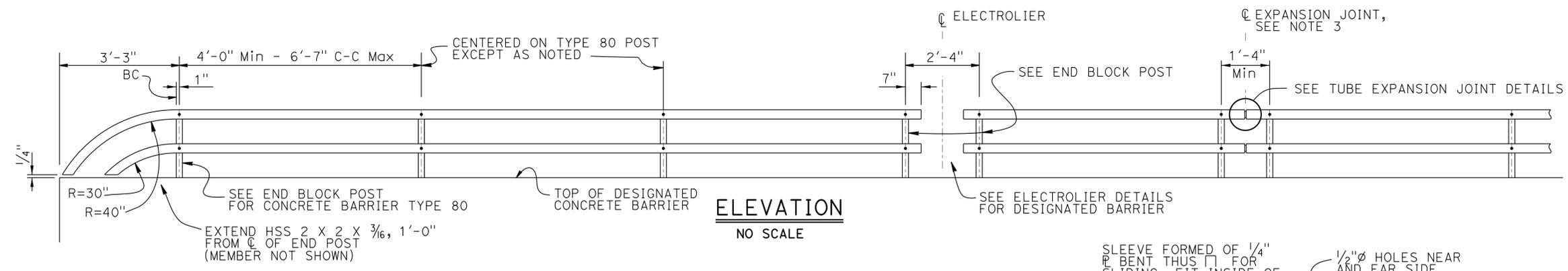
DETAIL C
NO SCALE

- NOTES:
- Utility openings and expansion joints not shown for clarity.
 - Recess concrete 1/2" for plates.
 - Plates to be galvanized.
 - Architectural treatment not shown.

SPENCER AVE OVERCROSSING BARRIER REPLACEMENT / WIDEN JOINT ARMOR FOR PEDESTRIAN WALKWAYS				BRIDGE NO. 27-0066 POST MILE 1.52	
DESIGN BY John E. Peterson	CHECKED Muthanna Omran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 16		SHEET 12 OF 13
DETAILS BY Franklin Maagma	CHECKED Muthanna Omran		UNIT: 3617 PROJECT NUMBER & PHASE: 04120004801	CONTRACT NO.: 04-4G4604	REVISION DATES: 1-28-15, 3-12-15
QUANTITIES BY Rodelio Baluyot	CHECKED John E. Peterson		DISREGARD PRINTS BEARING EARLIER REVISION DATES		FILE => 27-0066-u-miscdt08.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	137	149

04-06-15
 REGISTERED CIVIL ENGINEER DATE
 JOHN E. PETERSON
 No. 60724
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
 4-27-15
 PLANS APPROVAL DATE
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- NOTES:**
1. Post must be normal to railing
 2. Rail tubes must be shop bent or fabricated to fit horizontal curve when radius is less than 950'
 3. Tube expansion joints must be located in the tubes spanning deck or wall joints. Increase joint width in tubes to match expansion joint width and increase sleeve length correspondingly
 4. Top rail tube must be continuous over not less than two posts except a short post spacing is permitted near deck or wall joints, electroliers, or other rail discontinuities as noted
 5. See Project Plans for limits of tubular bicycle railing

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

SPENCER AVE OVERCROSSING BARRIER REPLACEMENT / WIDEN TUBULAR BICYCLE RAILING DETAILS				BRIDGE NO. 27-0066 POST MILE 1.52
DESIGN BY John E. Peterson CHECKED Muthanna Omran DETAILS BY Franklin Maagma CHECKED Muthanna Omran QUANTITIES BY Rodelio Baluyot CHECKED John E. Peterson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 16	UNIT: 3617 PROJECT NUMBER & PHASE: 04120004801 CONTRACT NO.: 04-4G4604	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES SHEET 13 OF 13

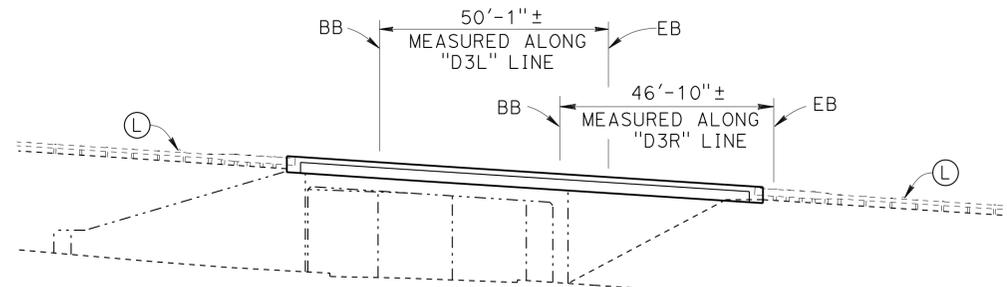
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	138	149

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	155	SQFT
REFINISH BRIDGE DECK	80	SQFT
BRIDGE REMOVAL (PORTION), LOCATION E	LUMP	SUM
HOT MIX ASPHALT (BRIDGE)	11	TON
STRUCTURAL CONCRETE, BARRIER SLAB	20	CY
PAVING NOTCH EXTENSION	6	CF
PREPARE AND STAIN CONCRETE	1,242	SQFT
CONCRETE BARRIER (TYPE 742 MODIFIED)	149	LF

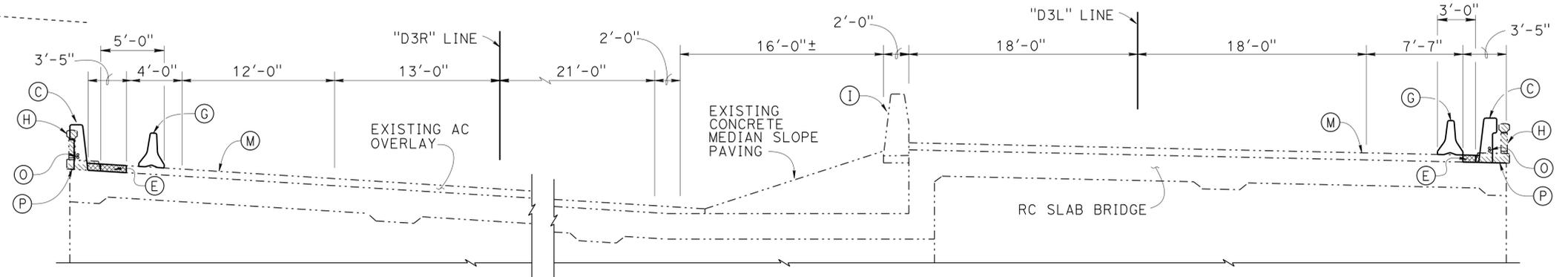
REGISTERED CIVIL ENGINEER
 JOHN R. TJOELKER
 No. C77165
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
 04-06-15
 DATE
 4-27-15
 PLANS APPROVAL DATE
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ELEVATION

1" = 20'

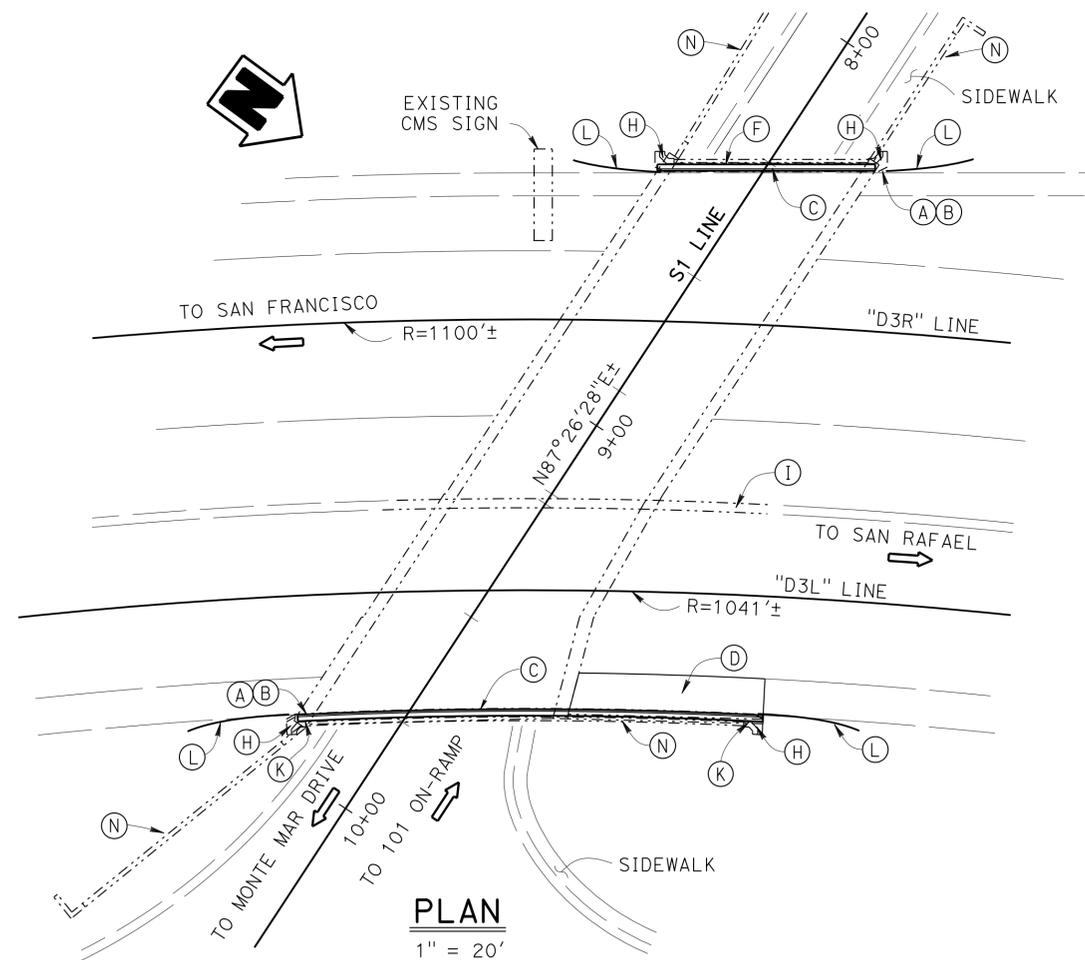
NOTE: Electrolier not shown for clarity.



TYPICAL SECTION

3/16" = 1'-0"

NOTE: For Details, see "PART TYPICAL SECTION" on "TYPICAL SECTION" sheet.



PLAN

1" = 20'

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

NOTES:

- (A) Paint "MONTE MAR DRIVE UC"
- (B) Paint "Bridge No. 27-0067"
- (C) Concrete Barrier Type 742 (Mod) with prepare and stain concrete
- (D) Structural Concrete Barrier Slab, For HMA see "ROADWAY PLANS"
- (E) HMA (Bridge)
- (F) Existing conduit to remain, see "ROADWAY PLANS"
- (G) Temporary Railing, see "ROADWAY PLANS"
- (H) Bridge Removal (Portion)
- (I) Existing Concrete Barrier Type 60
- (K) Electrolier, see "ROADWAY PLANS"
- (L) MGS, see "ROADWAY PLANS"
- (M) Match existing slope
- (N) Existing RC Wingwall
- (O) 2 - 1/2"Ø Electrical Conduit
- (P) Refinish bridge deck

LEGEND:

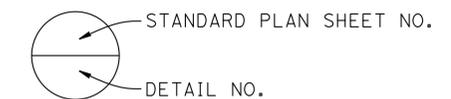
- Indicates New Structure
- - - Indicates Existing Structure
- ▤ Indicates Limits of Bridge Removal (Portion)
- ▨ Indicates Remove Asphalt concrete surfacing and place HMA (Bridge)

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	TYPICAL SECTION
3	BARRIER SLAB DETAIL

STANDARD PLANS 2010 EDITION

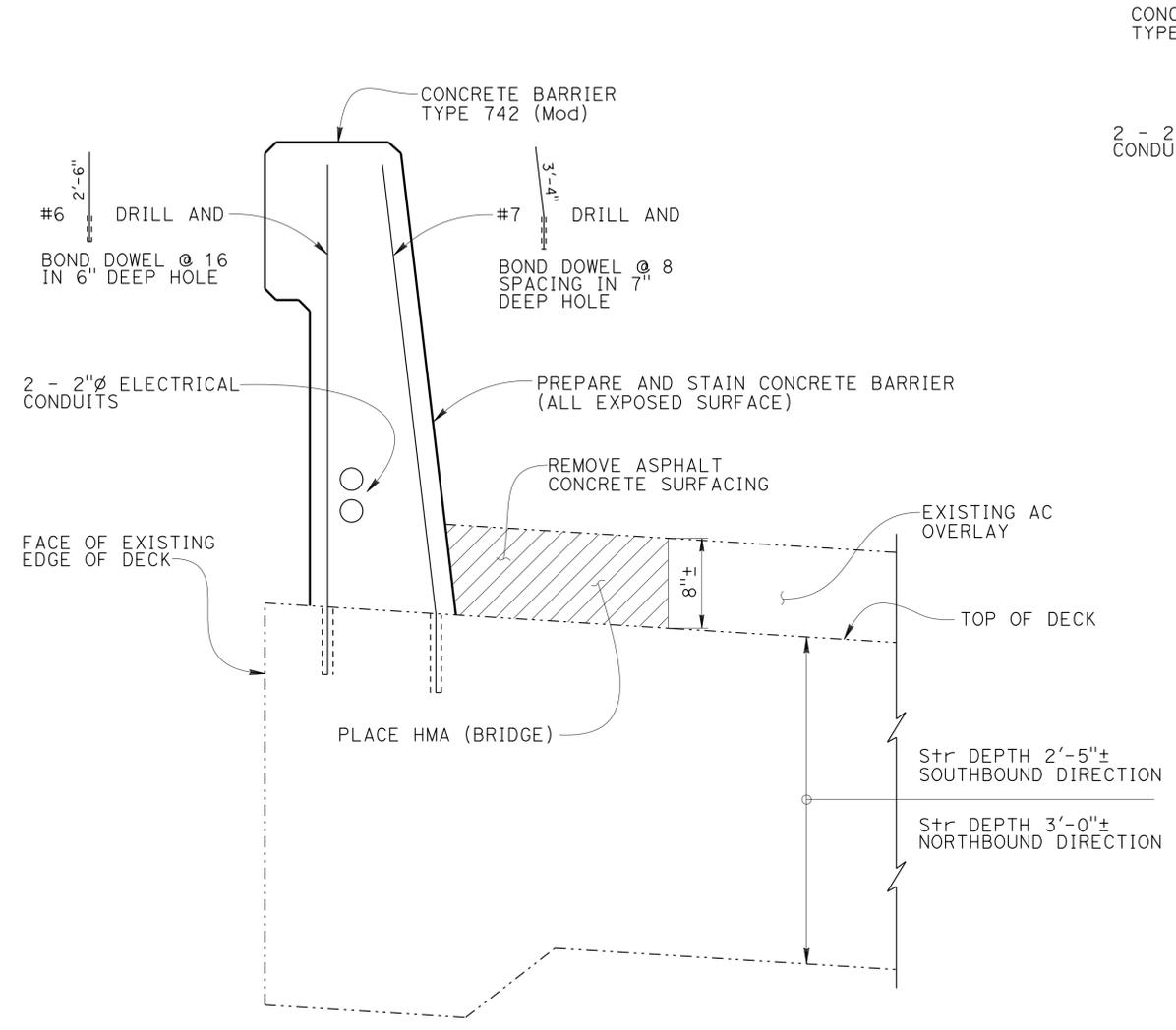
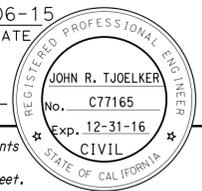
PLAN NO.	PLAN TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
RSP B11-57	CONCRETE BARRIER TYPE 742



Nora Kyo DESIGN ENGINEER	DESIGN	BY John Tjoelker	CHECKED Sam Kotawala	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 8	BRIDGE NO.	27-0067	
	DETAILS	BY F. Maagma, P. Daplas	CHECKED John Tjoelker	LAYOUT	BY Son Ly			CHECKED John Tjoelker	POST MILE	1.68
	QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke	SPECIFICATIONS	BY Sharon Hansen			CHECKED Sharon Hansen	PLANS AND SPECS COMPARED	

MONTE MAR DRIVE UC
BARRIER REPLACEMENT
GENERAL PLAN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	139	149
 REGISTERED CIVIL ENGINEER			04-06-15	DATE	
PLANS APPROVAL DATE			4-27-15		
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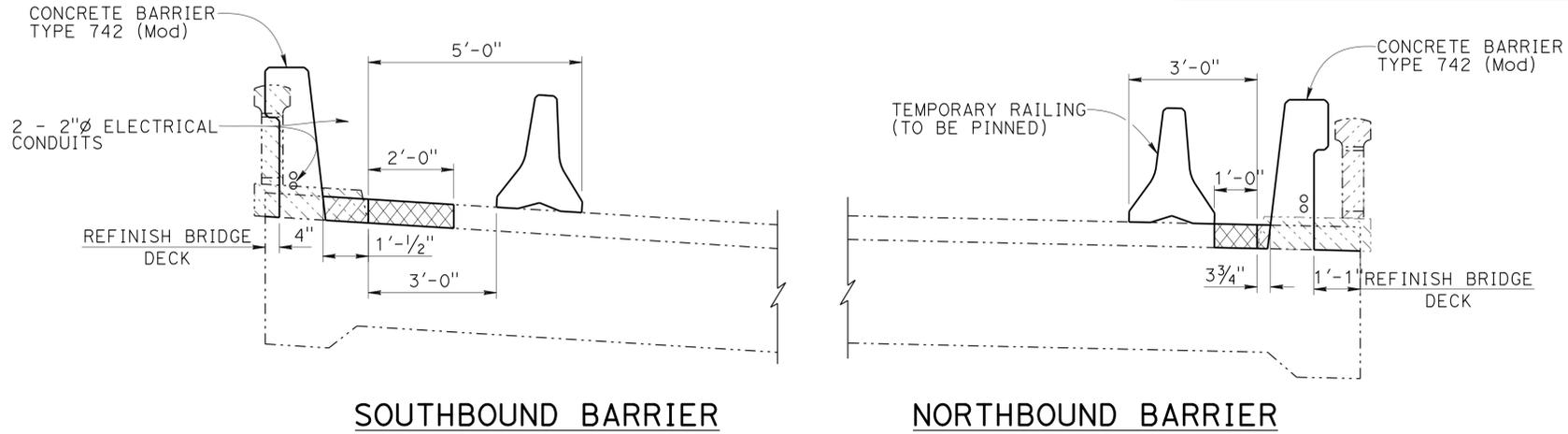
SOUTHBOUND BARRIER SHOWN, NORTHBOUND BARRIER SIMILAR

BARRIER DETAILS

1/2" = 1'-0"

NOTE:
For barrier reinforcement not shown, see RSP (B11-57).

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



PART TYPICAL SECTION

1/2" = 1'-0"

NOTES:
* Barrier reinforcement not shown.
** For length of barrier on bridge, see "ELEVATION NORTHEAST RETAINING WALL" on "BARRIER SLAB DETAIL" sheet.

- LEGEND:
- Indicates New Structure
 - - - Indicates Existing Structure
 - [Hatched Box] Limits of Bridge Removal (Portion)
 - [Diagonal Hatched Box] Place HMA (Bridge)
 - [Cross-hatched Box] Remove Asphalt Concrete Surfacing and place HMA (Bridge)

- NOTES:
- Dimensions may vary with roadway cross slope and with certain thickness of existing roadway surfacing.
 - Clearance to reinforcing steel in barrier to be 1", except as noted. Longitudinal reinforcement to stop at all expansion joints.
 - For electrolier mounting details, see Standard Plans ES-6A and ES-6B. Top mounted electrical junction boxes in barrier.
 - For location of electrolier, see "ROADWAY PLANS".
 - For barrier details not shown, see RSP (B11-57).

**GENERAL NOTES
LOAD FACTOR DESIGN**

DESIGN:
AASHTO LFD Bridge Design Specifications, and Caltrans Amendments, dated April 2000.

CONCRETE:
fy = 60 ksi
f'c = 3.6 ksi
n = 8

DESIGN	BY John Tjoelker	CHECKED Sam Kotalawala
DETAILS	BY Primitivo Daplas	CHECKED John Tjoelker
QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 8

BRIDGE NO.	27-0067
POST MILE	1.68

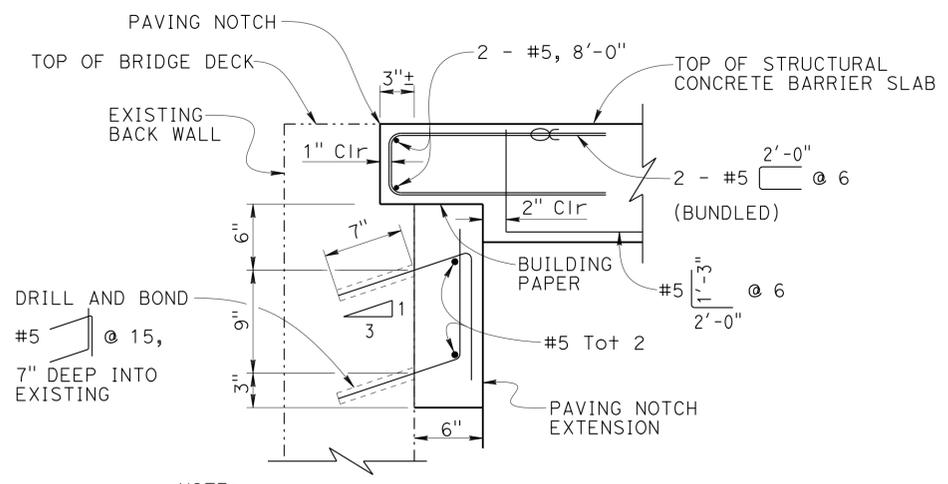
**MONTE MAR DRIVE UC
BARRIER REPLACEMENT
TYPICAL SECTION**

USERNAME => s131974 DATE PLOTTED => 27-MAY-2015 TIME PLOTTED => 14:11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	140	149
			04-06-15	DATE	
			4-27-15	PLANS APPROVAL DATE	
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small>					

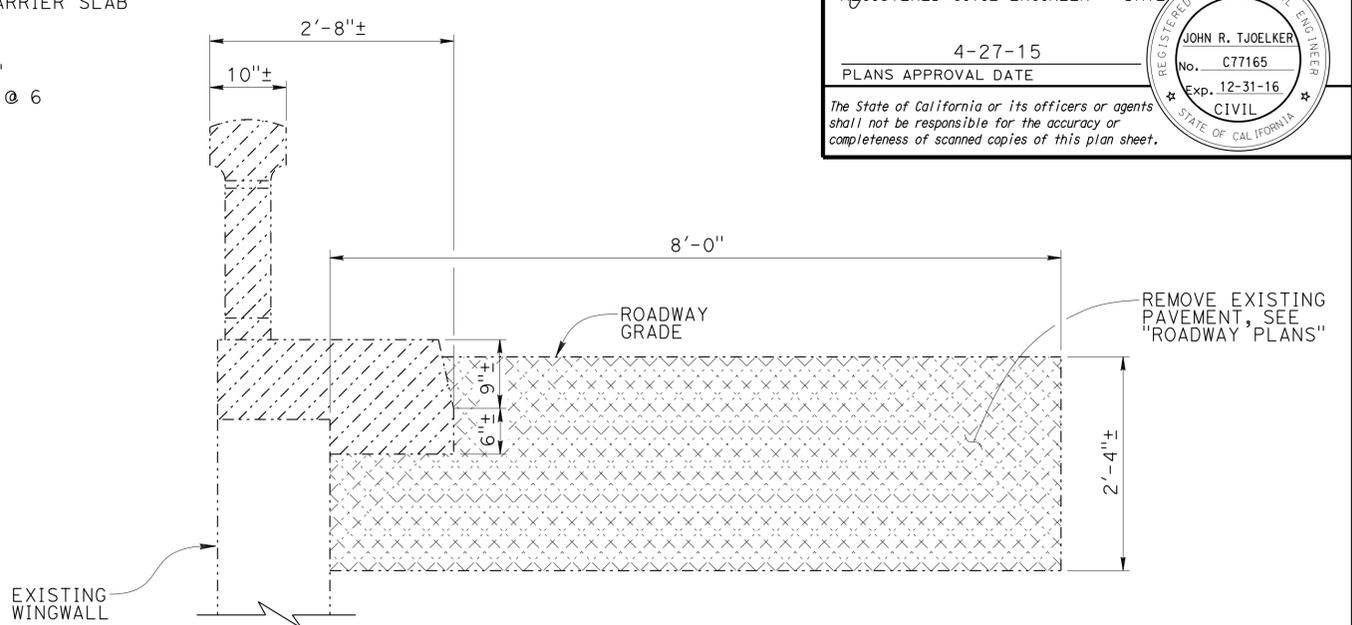
- LEGEND:**
- Indicates New Structure
 - - - - - Indicates Existing Structure
 - Limits of Bridge Removal (Portion)
 - Expanded Polystyrene
 - Remove existing pavement, see "ROADWAY PLANS"
 - HMA, see "ROADWAY PLANS"
 - Indicates Bundled Bars

- NOTES:**
- For "GENERAL NOTES", see "TYPICAL SECTION" Sheet.
 - For Concrete Barrier Type 742 (Mod) reinforcement not shown, see RSP .

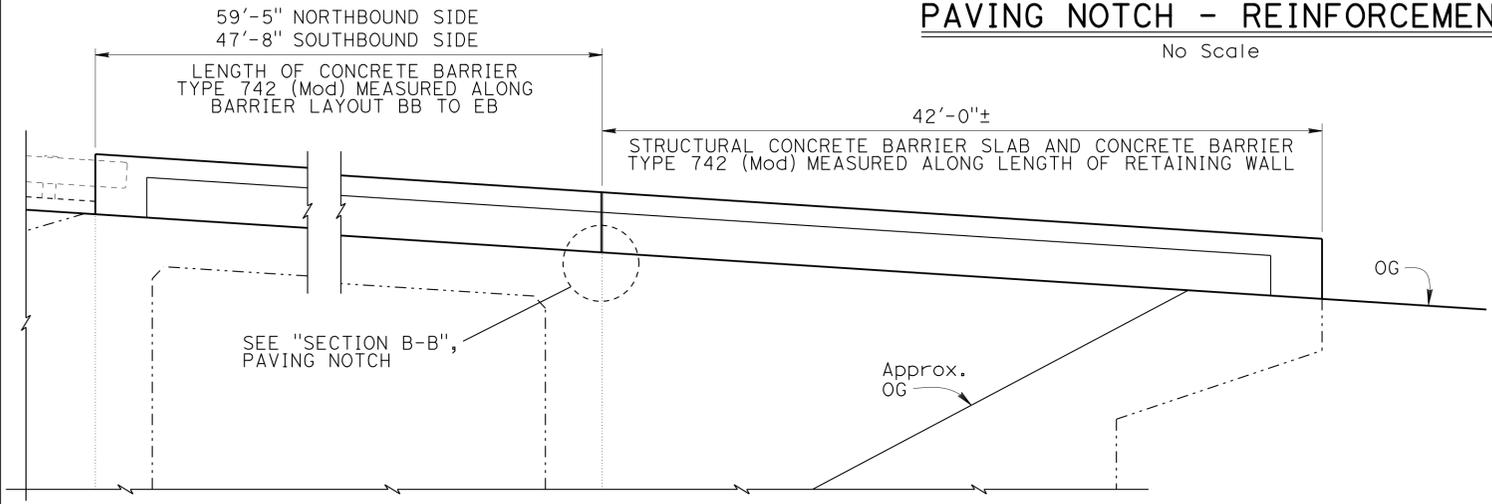


NOTE: Paving notch = 8'-0" length (Typ)

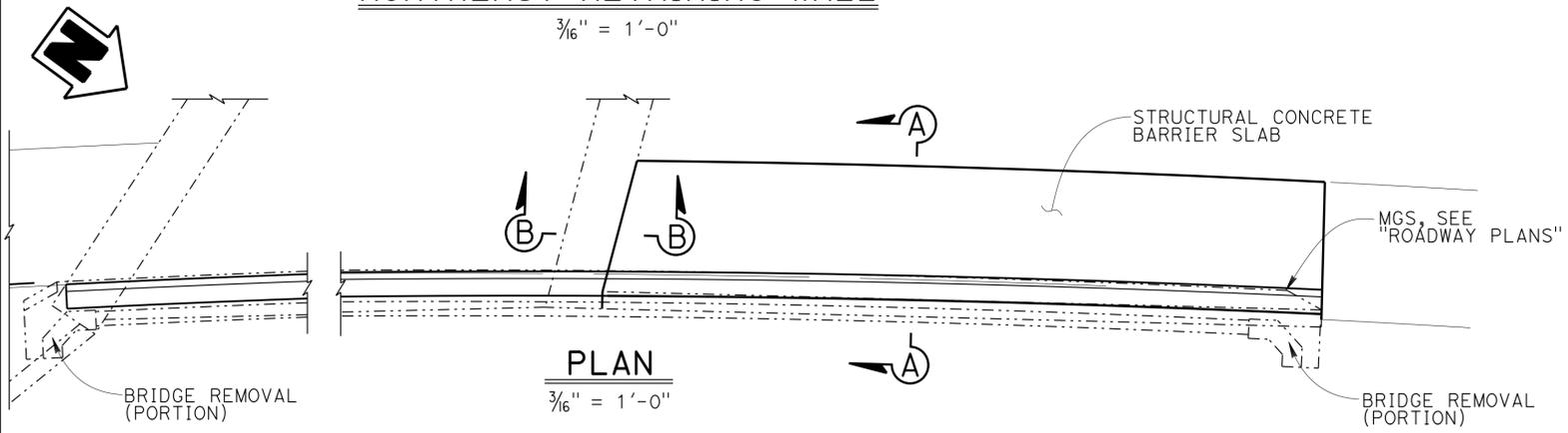
SECTION B-B
PAVING NOTCH - REINFORCEMENT
No Scale



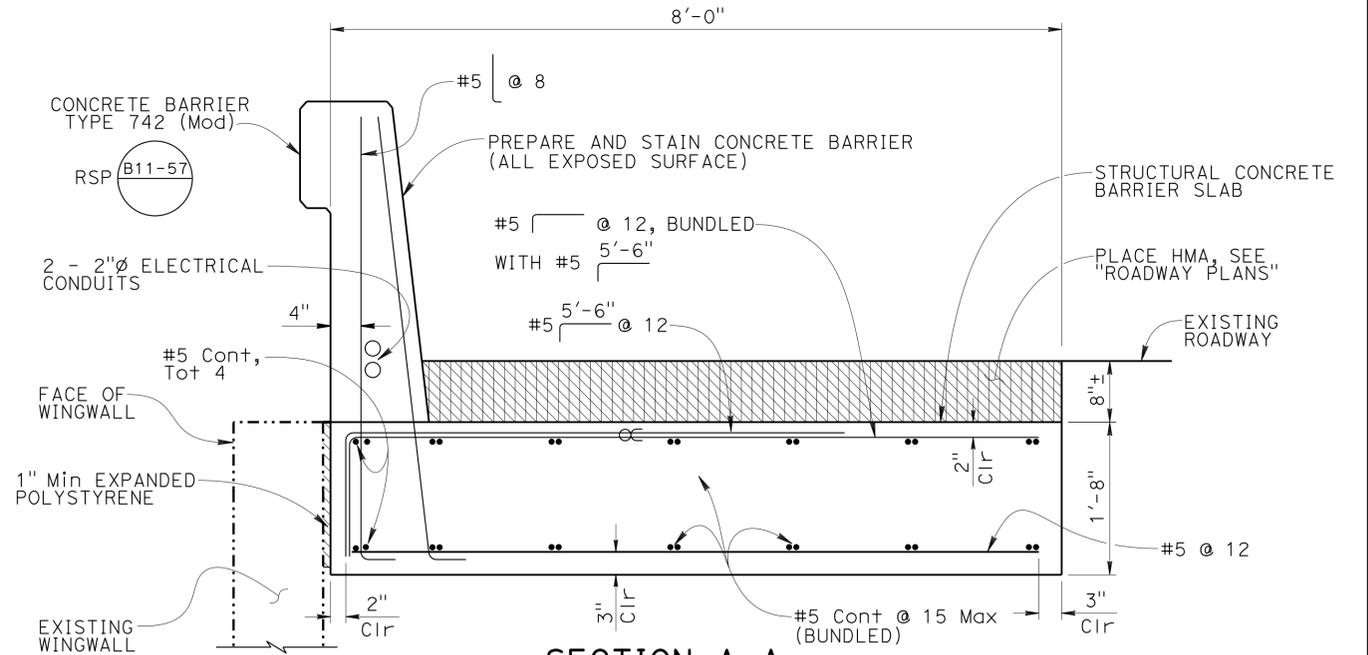
EXISTING BARRIER REMOVAL AT WINGWALL
1" = 1'-0"



ELEVATION
NORTHEAST RETAINING WALL
3/16" = 1'-0"



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



SECTION A-A
(STRUCTURAL CONCRETE BARRIER SLAB)
1" = 1'-0"

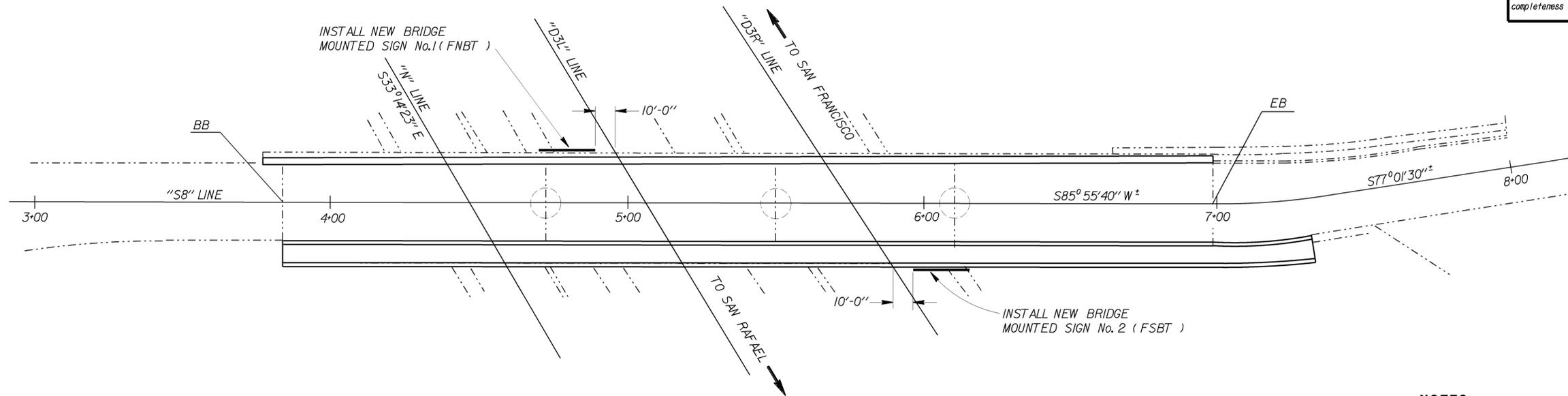
- NOTES:**
- * Existing barrier not shown.
 - ** No expansion joints in concrete barrier or in structural concrete barrier slab within wingwall limits.

DESIGN	BY	John Tjoelker	CHECKED	Sam Kotawala	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO.	27-0067	MONTE MAR DRIVE UC BARRIER REPLACEMENT BARRIER SLAB DETAIL	
	DETAILS	BY	Primitivo Daplas	CHECKED			John Tjoelker	POST MILE		1.68
	QUANTITIES	BY	Keith Nakaoka	CHECKED			Adam Menke			

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Mp	101	1.5/14.0	141	149

REGISTERED CIVIL ENGINEER *Juan Jauregui* DATE 4/3/15
 PLANS APPROVAL DATE 4-27-15
 No. C63939
 Exp. 9/30/16
 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.



LOCATION PLAN



NOTES:

1. Location plan accurate only for the orientation of the bridge mounted signs relative to the bridge.
2. For sign locations, see "SIGN PLANS".
3. For sign illumination equipment, see "ELECTRICAL PLANS".
4. For details not shown, see "STANDARD PLANS 2010".

LEGEND:

- Existing structure
- New structure
- Future construction by others
- BMS Bridge Mounted Sign

STANDARD PLANS 2010

- AIOA ABBREVIATIONS (SHEET 1 OF 2)
- RSP AIOB ABBREVIATIONS (SHEET 2 OF 2)

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



BRANCH CHIEF JEFF WOODY	DESIGN BY JUAN JAUREGUI CHECKED JOHN DATILES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH	BRIDGE NO. 27-0066	SPENCER AVE OVERCROSSING BRIDGE MOUNTED SIGNS - LOCATION PLAN	SDS-1
	DETAILS BY R. YEE CHECKED JUAN JAUREGUI			POST MILE 1.52		
	QUANTITIES BY JUAN JAUREGUI CHECKED JOHN DATILES					

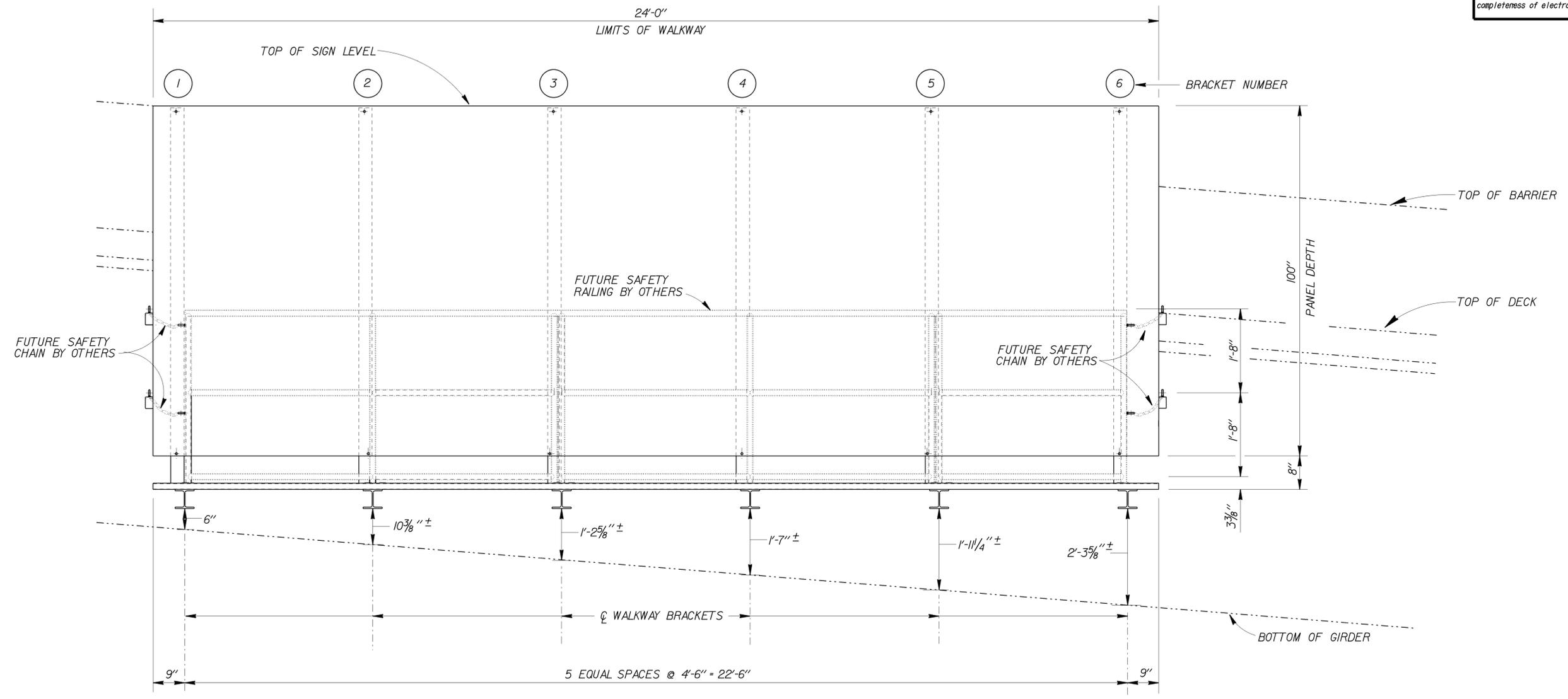
(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3619 PROJECT ID & PHASE: 0412000480-1 CONTRACT No.: 04-4G4604 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
6/27/14 4/1/15 4/7/15 3/9/15	1	9

FILE => /2014sd/04-4G4601/sds-1

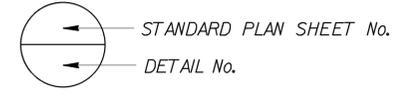
USERNAME => S115241 DATE PLOTTED => 07-APR-2015 TIME PLOTTED => 09:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Mtn	101	1.5/14.0	142	149
REGISTERED CIVIL ENGINEER			DATE	4/3/15	
PLANS APPROVAL DATE			4-27-15		
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
SIGN No. 1 (FNBT)

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

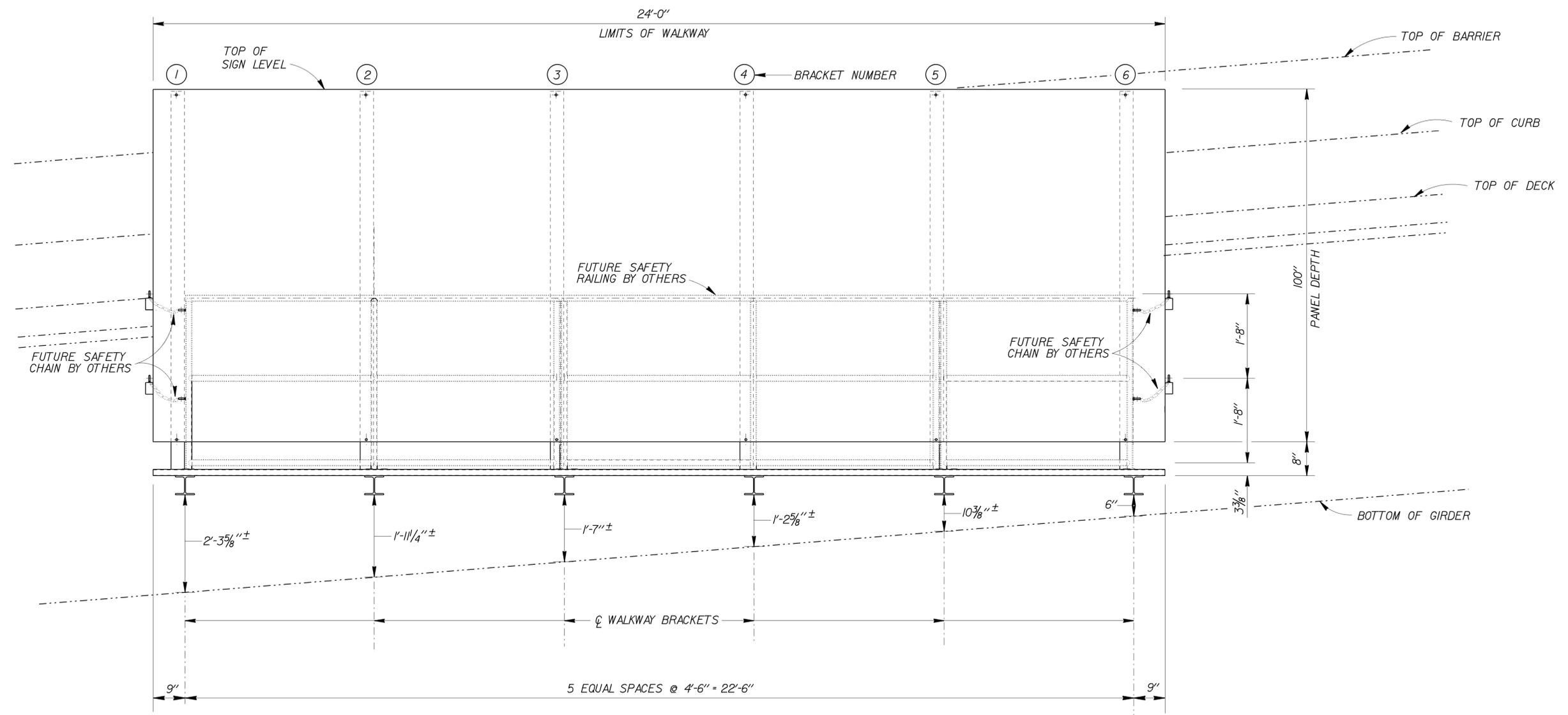
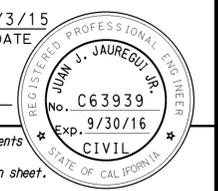


NO SCALE

BRANCH CHIEF JEFF WOODY	DESIGN BY JUAN JAUREGUI CHECKED JOHN DATILES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH A	BRIDGE NO. 27-0066	SPENCER AVE OVERCROSSING	SDS-2
	DETAILS BY R. YEE CHECKED JUAN JAUREGUI			POST MILE 1.52		
QUANTITIES BY JUAN JAUREGUI CHECKED JOHN DATILES		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3619 PROJECT ID & PHASE: 0412000480-1	CONTRACT No.: 04-4G4604	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 8/1/14 4/7/15 3/28/15 4/2/15
(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)			0 1 2 3	SHEET 2 OF 9		

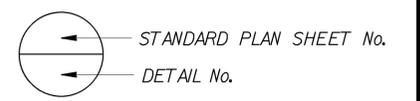
USERNAME => S115241 DATE PLOTTED => 07-APR-2015 TIME PLOTTED => 09:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Mt	101	1.5/14.0	143	149
REGISTERED CIVIL ENGINEER			DATE	4/3/15	
PLANS APPROVAL DATE			4-27-15		
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
SIGN No. 2 (FSBT)

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



BRANCH CHIEF **JEFF WOODY**

DESIGN	BY	JUAN JAUREGUI	CHECKED	JOHN DATILES
DETAILS	BY	R. YEE	CHECKED	JUAN JAUREGUI
QUANTITIES	BY	JUAN JAUREGUI	CHECKED	JOHN DATILES

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH

NO SCALE
BRIDGE NO. 27-0066
POST MILE 1.52

SPENCER AVE OVERCROSSING
BRIDGE MOUNTED SIGN No. 2 - ELEVATION

SDS-3

(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3619
PROJECT ID & PHASE: 0412000480-1

CONTRACT No.: 04-4G4604

DISREGARD PRINTS BEARING EARLIER REVISION DATES

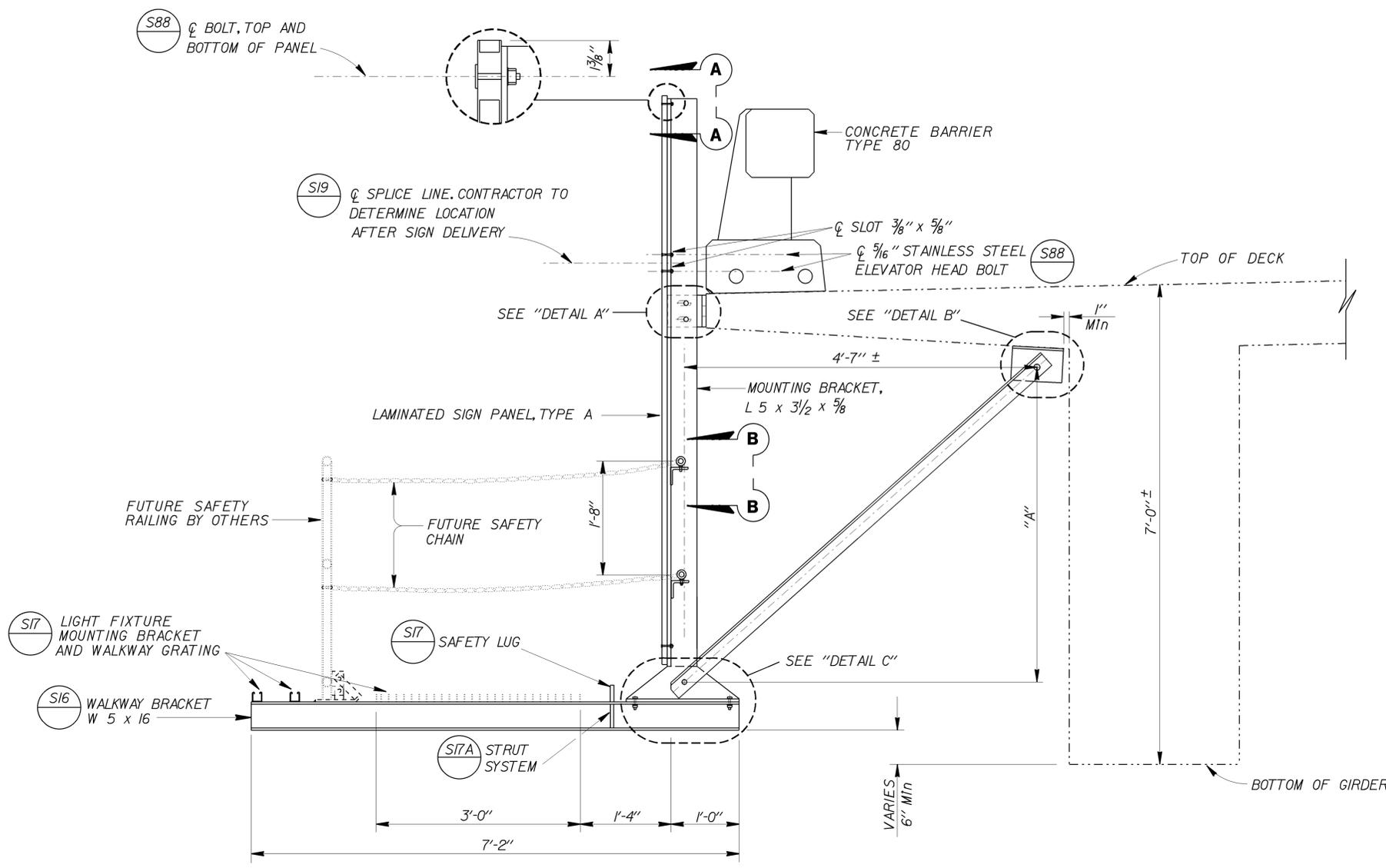
REVISION DATES	SHEET	OF
5/12/14 4/7/15 11/24/14 3/26/15	3	9

FILE => /2014sd/04-4G4601/sds-3

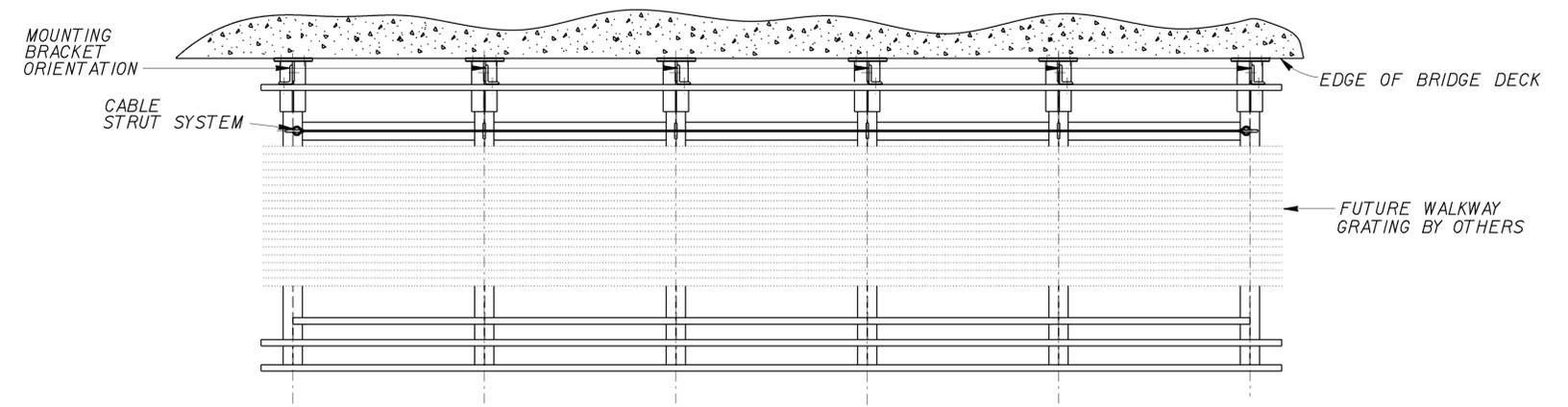
USERNAME => s115241 DATE PLOTTED => 07-APR-2015 TIME PLOTTED => 09:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Mt	101	1.5/14.0	144	149
REGISTERED CIVIL ENGINEER No. C63939 Exp. 9/30/16 CIVIL			4/3/15 REGISTERED CIVIL ENGINEER DATE 4-27-15 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

DIAGONAL BRACE DIMENSIONS SIGN No. 1	
BRACKET No.	"A"
①	4'-3 1/4" ±
②	3'-11" ±
③	3'-6 5/8" ±
④	3'-2 3/8" ±
⑤	2'-10" ±
⑥	2'-5 5/8" ±



TYPICAL SECTION
SIGN No. 1 (FNBT)



PLAN VIEW
SIGN No. 1 (FNBT)

- NOTES:**
- For "DETAIL A", "DETAIL B", "DETAIL C", "SECTION A-A", and "SECTION B-B", see "BRIDGE MOUNTED SIGNS - TYPICAL DETAILS" sheet.
 - For details not shown, see "STANDARD PLANS 2010".
 - All high strength (HS) bolts must be snug tightened.
 - Minimum size fillet weld is 1/4" or thickness of thinner part unless noted otherwise.
 - Unless otherwise shown, all steel must be galvanized after fabrication.
 - Safety chain is located at the ends only, but is shown here for clarity.

STANDARD PLAN SHEET No.
 DETAIL No.

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

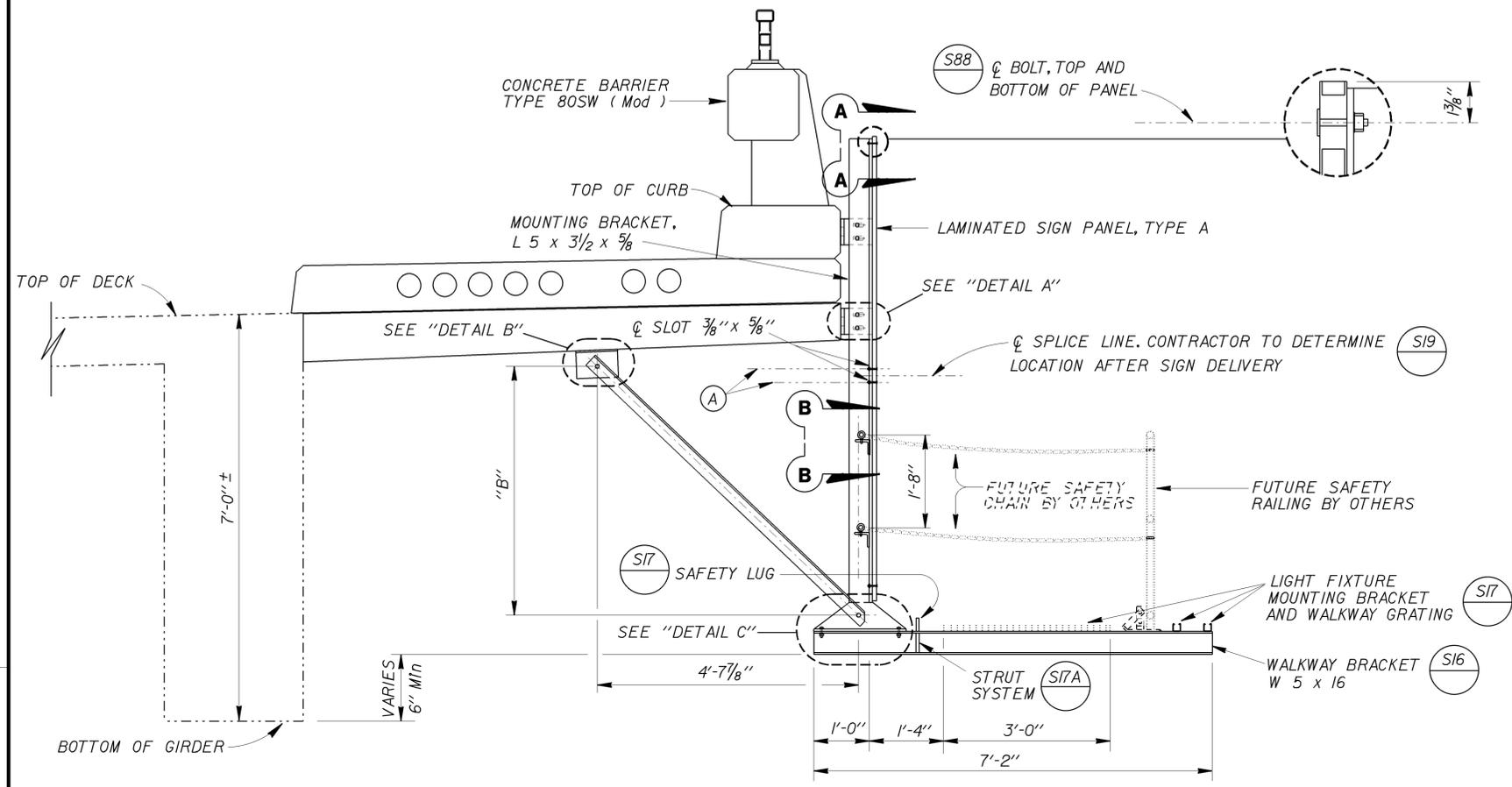
BRANCH CHIEF JEFF WOODY	DESIGN BY JUAN JAUREGUI CHECKED JOHN DATILES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH	BRIDGE No. 27-0066	SPENCER AVE OVERCROSSING BRIDGE MOUNTED SIGN No. 1 TYPICAL SECTION AND PLAN VIEW	SDS-4
	DETAILS BY R. YEE CHECKED JUAN JAUREGUI			POST MILE 1.52		
	QUANTITIES BY JUAN JAUREGUI CHECKED JOHN DATILES			CONTRACT No.: 04-4G4604		
(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3619 PROJECT ID & PHASE: 0412000480-1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 8/11/14 4/1/15 4/7/15 3/28/15	SHEET 4 OF 9

USERNAME => s115241 DATE PLOTTED => 07-APR-2015 TIME PLOTTED => 09:52

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Mtn	101	1.5/14.0	145	149

REGISTERED CIVIL ENGINEER
 DATE 4/3/15
 4-27-15
 PLANS APPROVAL DATE
 No. C63939
 Exp. 9/30/16
 CIVIL
 STATE OF CALIFORNIA

DIAGONAL BRACE DIMENSIONS SIGN No. 2	
BRACKET No.	"B"
①	2'-10 1/4" ±
②	3'-0 5/8" ±
③	3'-0 7/8" ±
④	3'-11 1/4" ±
⑤	4'-3 1/2" ±
⑥	4'-7 1/8" ±

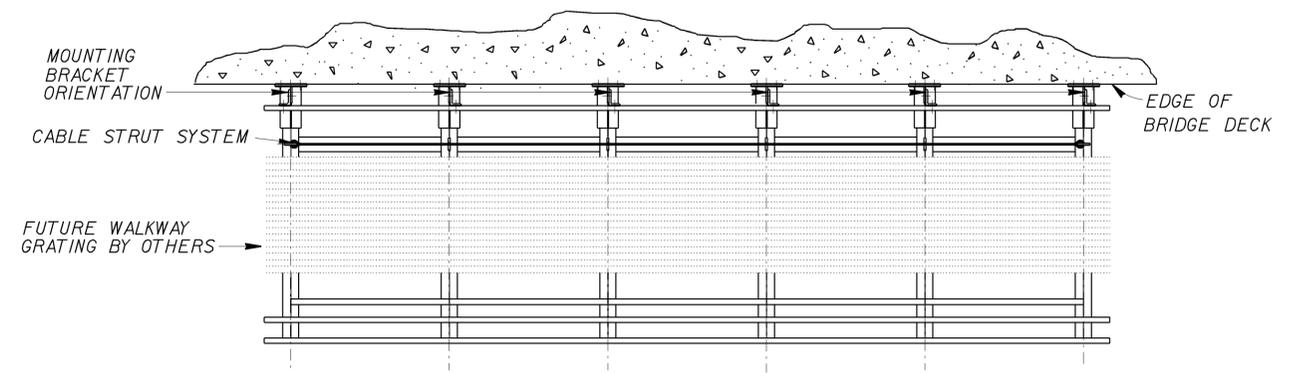


TYPICAL SECTION
SIGN No. 2 (FSBT)

NOTES:

- For "DETAIL A", "DETAIL B", "DETAIL C", "SECTION A-A", and "SECTION B-B", see "BRIDGE MOUNTED SIGNS - TYPICAL DETAILS" sheet.
- For details not shown, see "STANDARD PLANS 2010".
- All high strength (HS) bolts must be snug tightened.
- Minimum size fillet weld is 1/4" or thickness of thinner part unless noted otherwise.
- Unless otherwise shown, all steel must be galvanized after fabrication.
- Safety chain is located at the ends only, but is shown here for clarity.

Ⓐ ϕ 5/8" STAINLESS STEEL ELEVATOR HEAD BOLT S88



PLAN VIEW
SIGN No. 2 (FSBT)

STANDARD PLAN SHEET No.
 DETAIL No.

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

NO SCALE

BRANCH CHIEF JEFF WOODY	DESIGN BY JUAN JAUREGUI CHECKED JOHN DATILES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH	BRIDGE NO. 27-0066	SPENCER AVE OVERCROSSING	SDS-5
	DETAILS BY R. YEE CHECKED JUAN JAUREGUI			POST MILE 1.52		
	QUANTITIES BY JUAN JAUREGUI CHECKED JOHN DATILES					

(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

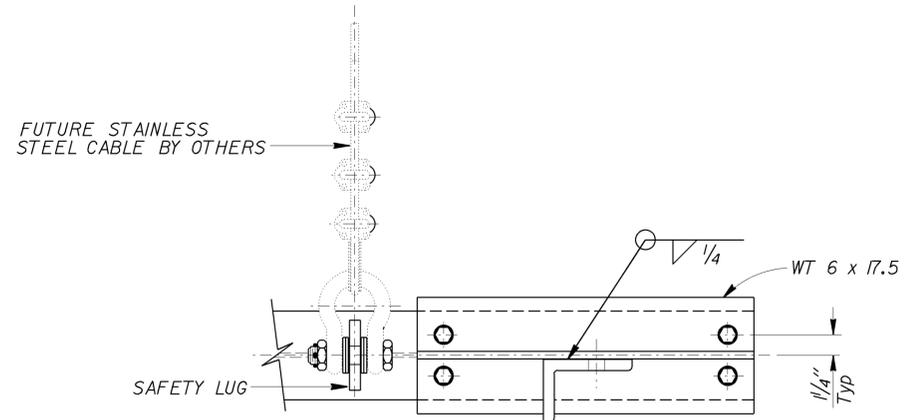
UNIT: 3619 PROJECT ID & PHASE: 0412000480-1 CONTRACT No.: 04-4G4604

DISREGARD PRINTS BEARING EARLIER REVISION DATES

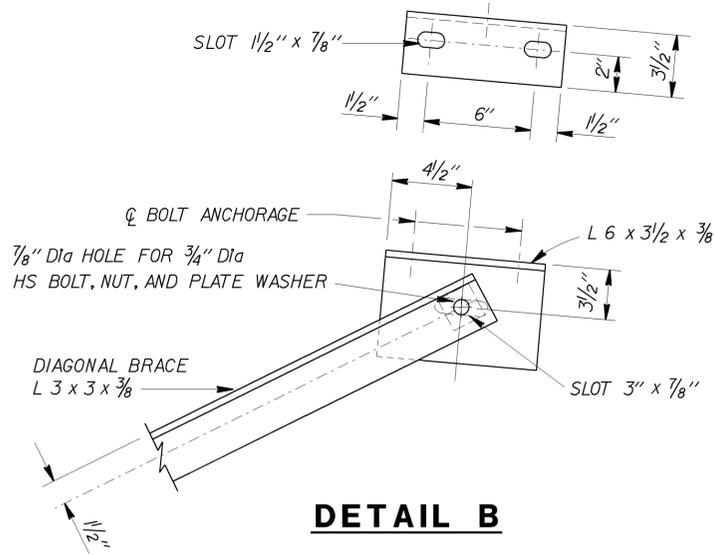
REVISION DATES	SHEET	OF
5/27/14 3/28/15 4/7/15 11/24/14	5	9

USERNAME => S115241 DATE PLOTTED => 07-APR-2015 TIME PLOTTED => 10:00

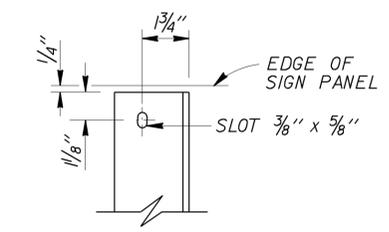
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Mtn	101	1.5/14.0	146	149
REGISTERED CIVIL ENGINEER JUAN J. JAUREGUI JR. No. C63939 Exp. 9/30/16 CIVIL STATE OF CALIFORNIA			4/3/15	DATE	
PLANS APPROVAL DATE 4-27-15					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



SECTION C-C

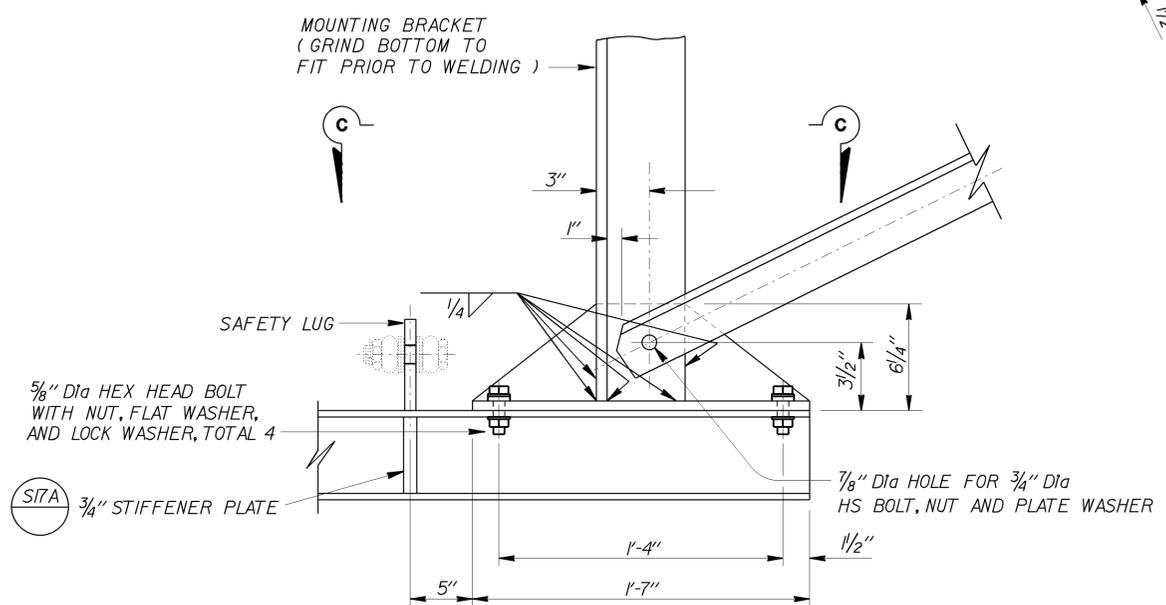


DETAIL B

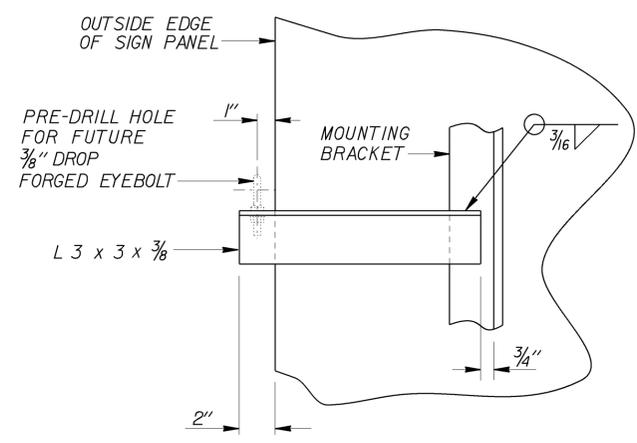


SECTION A-A

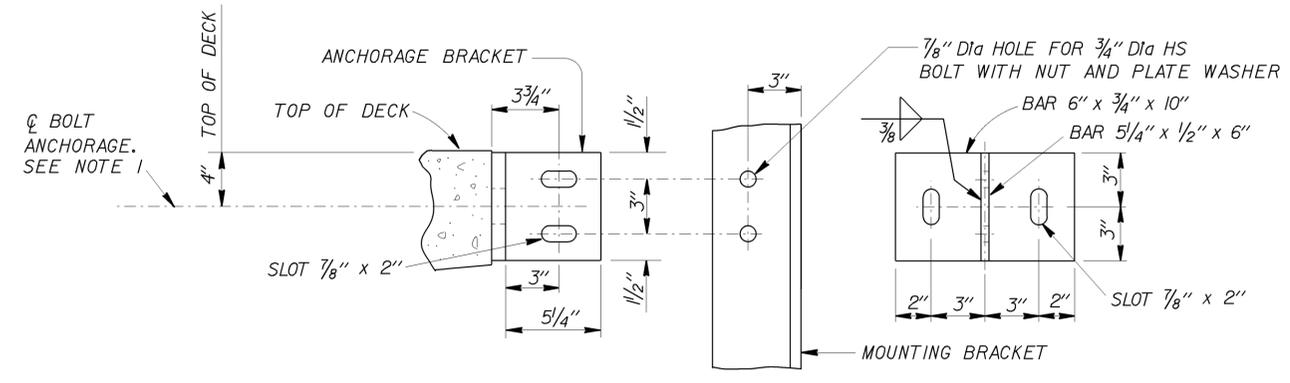
- NOTES:**
- Contractor to provide anchor bolt layout before anchor bolts are placed.
 - Where new resin capsule bolt anchorage coincides with fence post, adjust new mounting bracket to create a minimum distance of 6" measured from the centerline of nearest resin capsule bolt anchorage to the centerline of fence post, or as approved by the Engineer.
 - Resin capsule anchorage is subject to approval of the Engineer. Installation procedure must comply with manufacturer's instructions.
 - Unless otherwise shown, all steel must be galvanized after fabrication.
 - Resin capsule bolt anchors must be installed in sound concrete free of cracks or delamination.



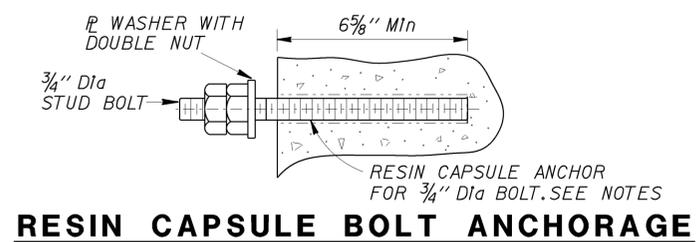
DETAIL C



SECTION B-B



DETAIL A



RESIN CAPSULE BOLT ANCHORAGE

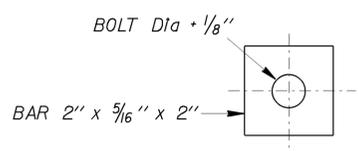
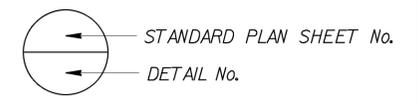


PLATE WASHER
FOR ALL SLOTTED HOLES, AND WHERE NOTED

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



BRANCH CHIEF JEFF WOODY	DESIGN	BY JUAN JAUREGUI	CHECKED JOHN DATILES	STATE OF CALIFORNIA DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH	BRIDGE NO.	SPENCER AVE OVERCROSSING BRIDGE MOUNTED SIGNS - TYPICAL DETAILS	SDS-6
	DETAILS	BY R. YEE	CHECKED JUAN JAUREGUI		POST MILE		
	QUANTITIES	BY JUAN JAUREGUI	CHECKED JOHN DATILES	DEPARTMENT OF TRANSPORTATION UNIT: 3619 PROJECT ID & PHASE: 0412000480-1 CONTRACT No.: 04-4G4604	NO SCALE REVISION DATES 6/12/14 4/2/15 4/7/15 3/20/15	SHEET OF 6 9	

(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

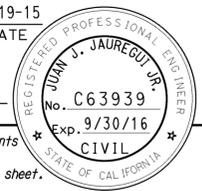
0 1 2 3

FILE => /2014sd/04-4G4601/sds-6

DISREGARD PRINTS BEARING EARLIER REVISION DATES

USERNAME => S115241 DATE PLOTTED => 07-APR-2015 TIME PLOTTED => 10:03

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Mrr	101	1.5/14.0	147	149
REGISTERED CIVIL ENGINEER			DATE	3-19-15	
PLANS APPROVAL DATE			4-27-15		
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.					

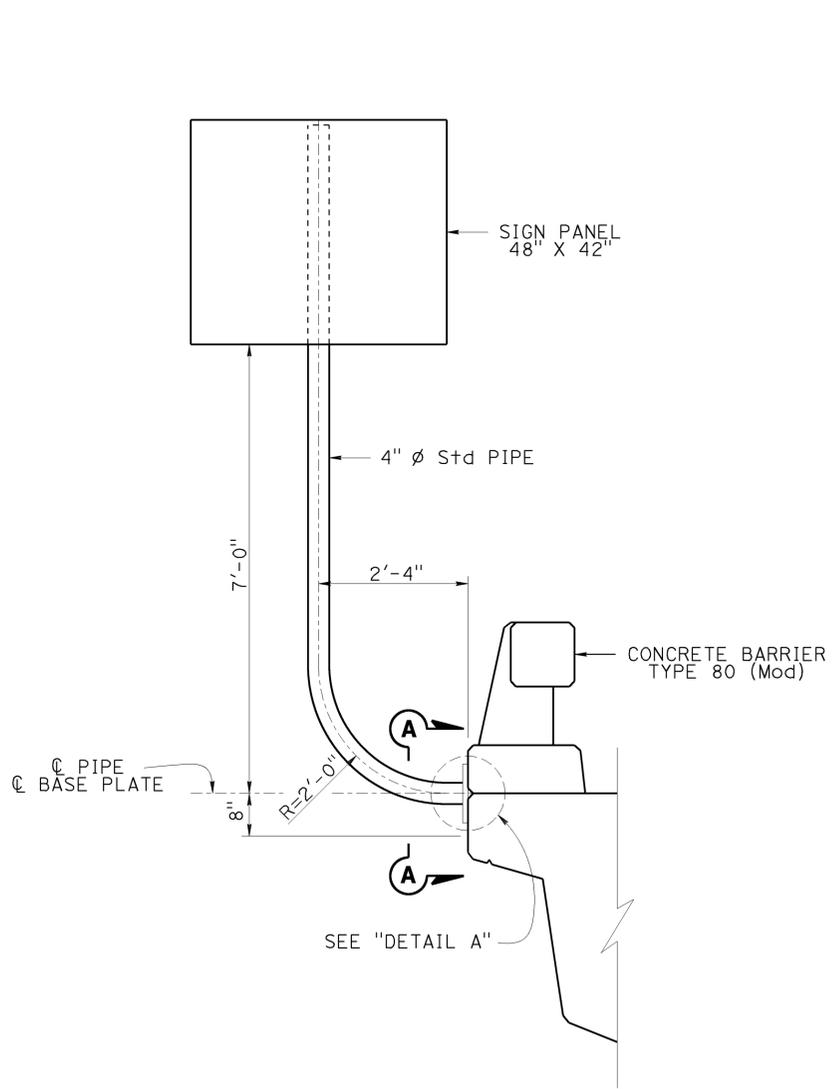


NOTES:

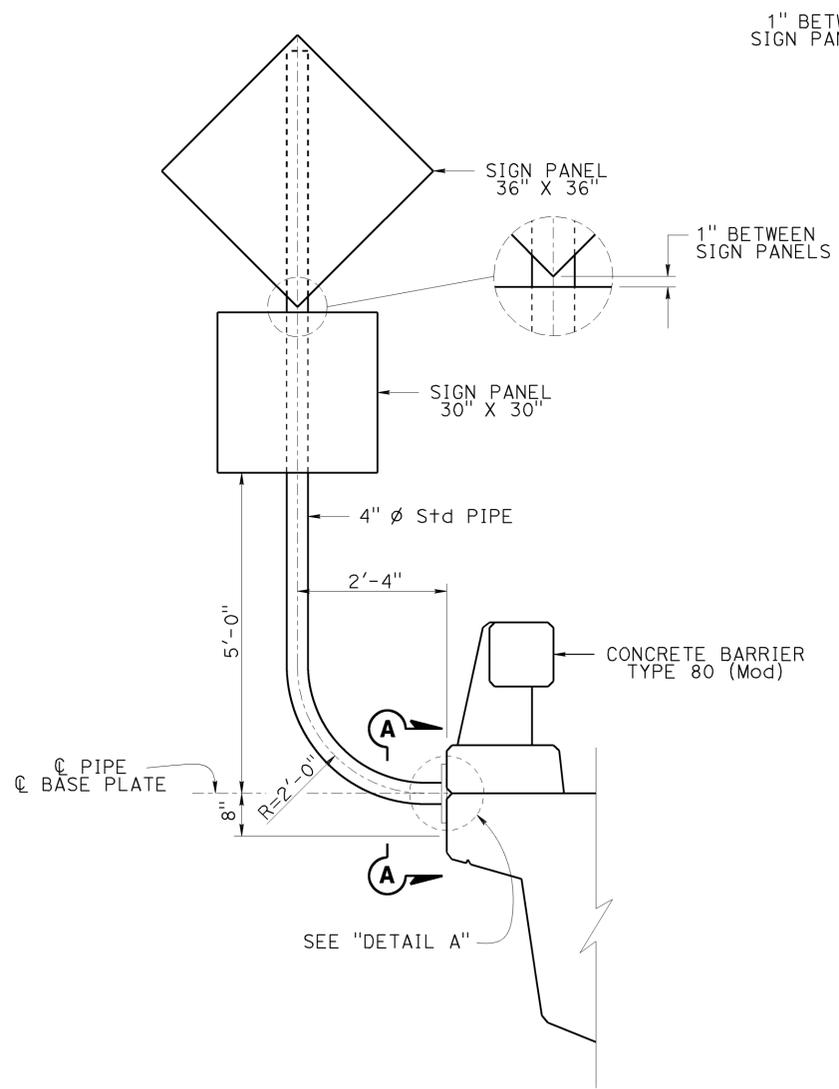
1. For Sign locations, see "SIGN PLANS".
2. This plan accurate for "SIGN DETAILS" only. See bridge plans for Concrete Barrier Type 80 (Mod) details and bridge corbel details.
3. Unless otherwise shown, all steel must be galvanized after fabrication.
4. For "Detail A" see "BARRIER RAIL MOUNTED SIGN - DETAILS 2" sheet.

STANDARD PLANS 2010
 A10A Abbreviations (sheet 1 of 2)
 RSP A10B Abbreviations (sheet 2 of 2)

LEGEND
 - - - - - Existing Structure
 _____ New Structure

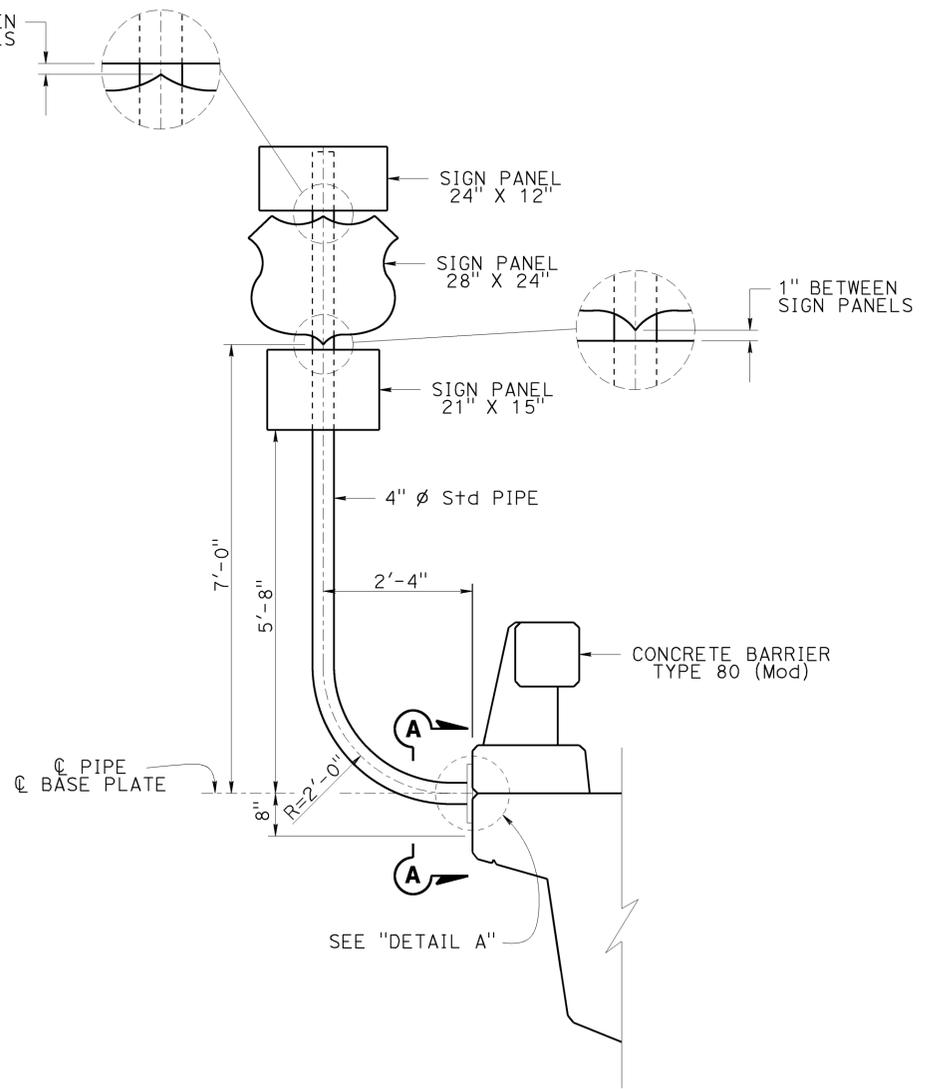


SIGN S2-2



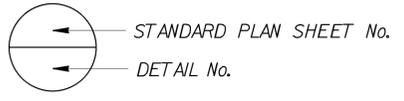
SIGN S2-3 & S2-6

SIGN S2-3 ON LEFT SIDE SHOWN.
 SIGN S2-6 SIMILAR ON RIGHT SIDE.



SIGN S2-8

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



BRANCH CHIEF **JEFF WOODY**

DESIGN	BY J. JAUREGUI	CHECKED D. VORA
DETAILS	BY M. CLEVERLEY	CHECKED J. JAUREGUI
QUANTITIES	BY J. JAUREGUI	CHECKED D. VORA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 DESIGN AND TECHNICAL SERVICES
 SPECIAL DESIGNS BRANCH

BRIDGE NO.	Var
POST MILE	Var

CORTE MADERA CREEK BRIDGE
 NB OFF-RAMP AND SB ON-RAMP
 BARRIER RAIL MOUNTED SIGN - DETAILS 1

SDS-7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	MRR	101	1.5/14.0	148	149

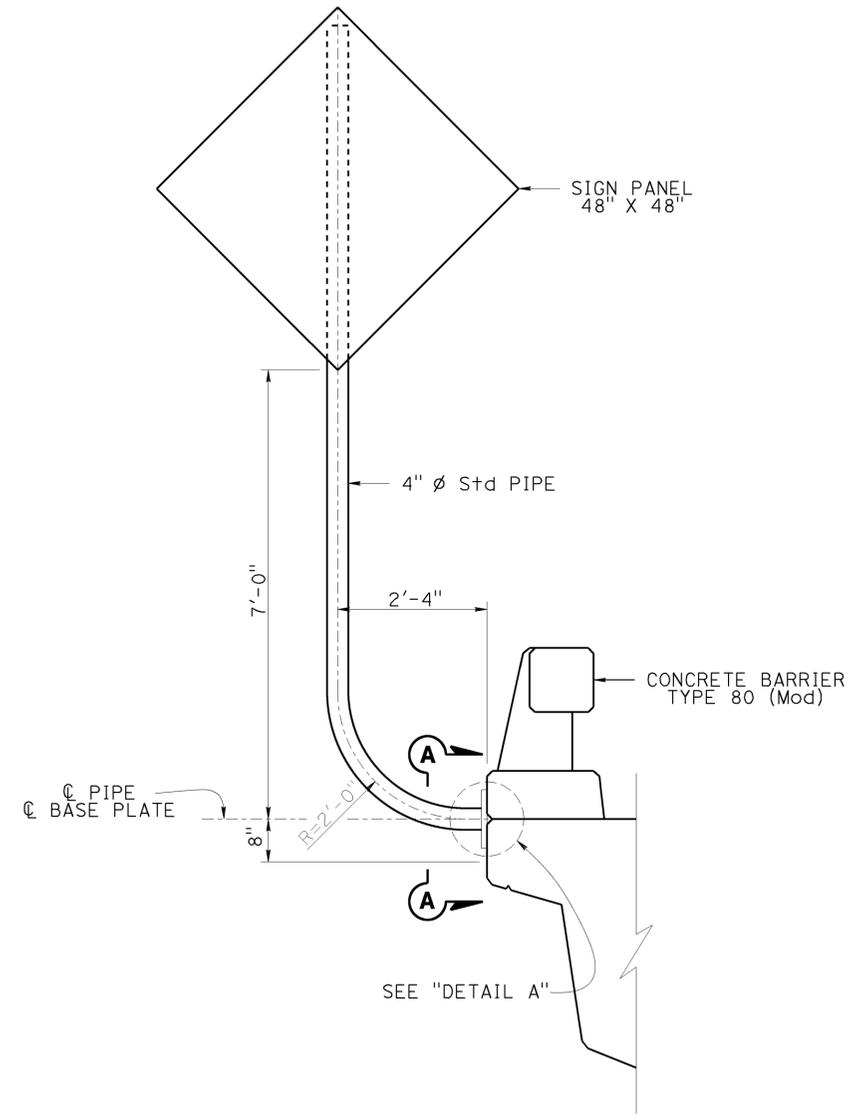
REGISTERED CIVIL ENGINEER	DATE
JUAN J. JAUREGUI	3-19-15
PLANS APPROVAL DATE	
	4-27-15

REGISTERED PROFESSIONAL ENGINEER	No. 663939	Exp. 9/30/16
CIVIL		

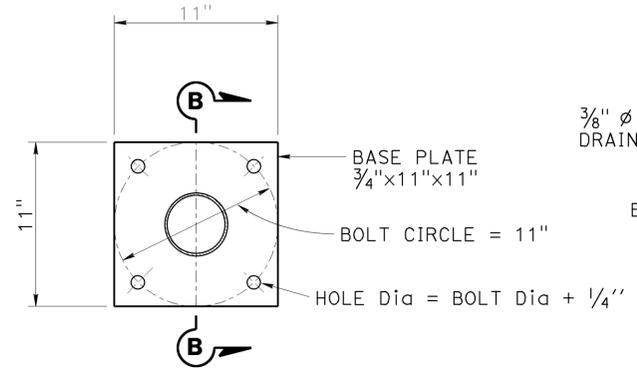
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES:

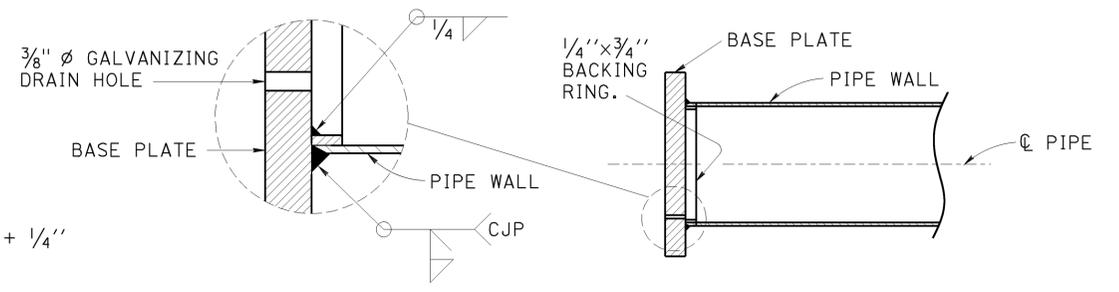
1. For sign locations, see "SIGN PLANS".
2. This plan accurate for "SIGN DETAILS" only. See bridge plans for Concrete Barrier Type 80 (Mod) details and bridge corbel details.
3. Unless otherwise shown, all steel must be galvanized after fabrication.
4. Contractor to provide anchor bolt layout before anchor bolts are placed. Resin capsule bolt locations must be laid out prior to pouring deck and barrier rail concrete to avoid interference with rebar, fence post or conduit.
5. Resin capsule bolt anchors must be installed in sound concrete free of cracks or delamination.
6. Resin capsule anchorage is subject to approval of the Engineer. Installation procedure must comply with manufacturer's instructions.



SIGN S2-9 & S2-11
SIGN S2-11 ON LEFT SIDE SHOWN.
SIGN S2-9 SIMILAR ON RIGHT SIDE.

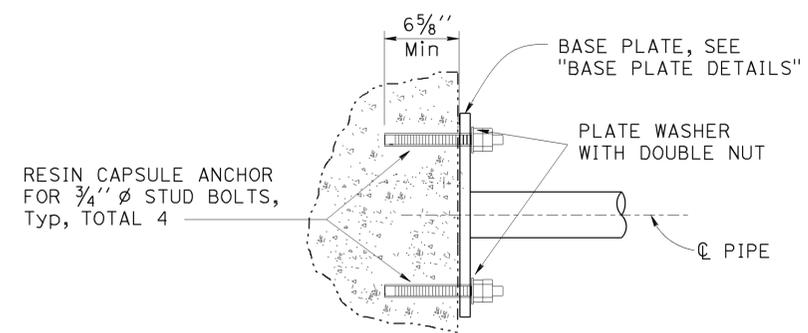


SECTION A-A



SECTION B-B

BASE PLATE DETAILS



RESIN CAPSULE TYPE BOLT ANCHORAGE
DETAIL A

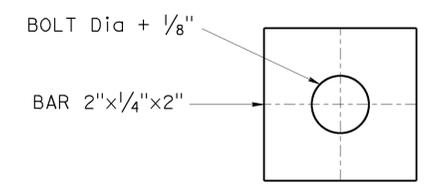


PLATE WASHER

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

BRANCH CHIEF	DESIGN	BY J. JAUREGUI	CHECKED D. VORA
	DETAILS	BY M. CLEVERLEY	CHECKED J. JAUREGUI
	QUANTITIES	BY J. JAUREGUI	CHECKED D. VORA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH **A**

BRIDGE NO.	Var
POST MILE	Var

CORTE MADERA CREEK BRIDGE
NB OFF-RAMP AND SB ON-RAMP
BARRIER RAIL MOUNTED SIGN - DETAILS 2

SDS-8

(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 4-1-14)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3619
PROJECT NUMBER & PHASE: 0412000480-1 CONTRACT NO.: 04-4G4604

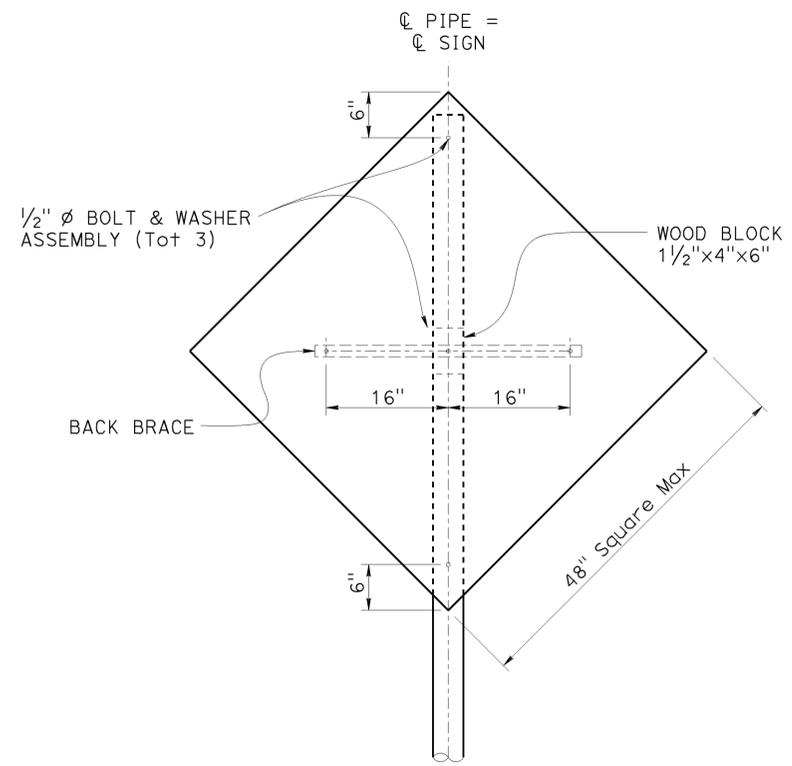
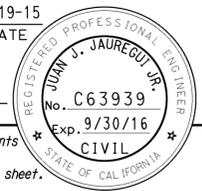
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
	8	9

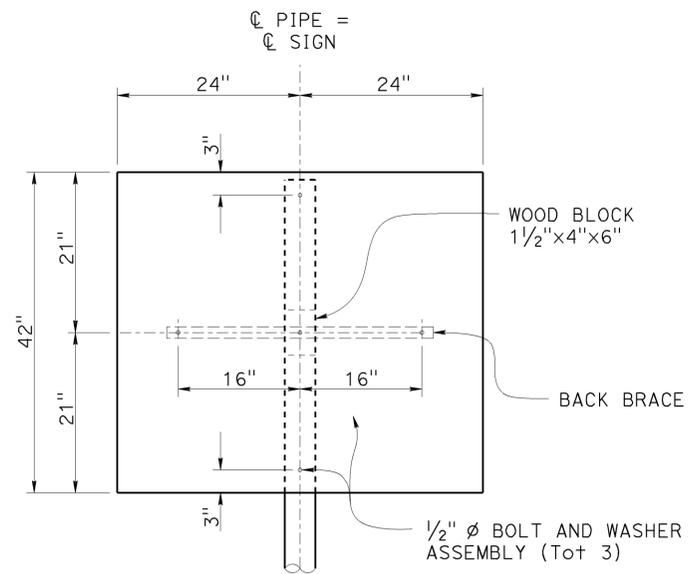
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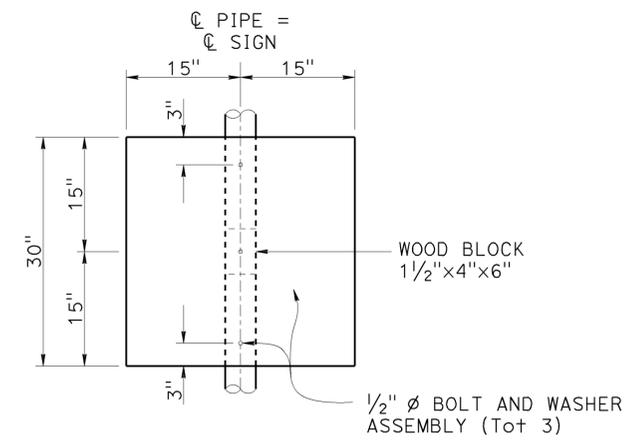
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	MRR	101	1.5/14.0	149	149
REGISTERED CIVIL ENGINEER			DATE	3-19-15	
PLANS APPROVAL DATE			4-27-15		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



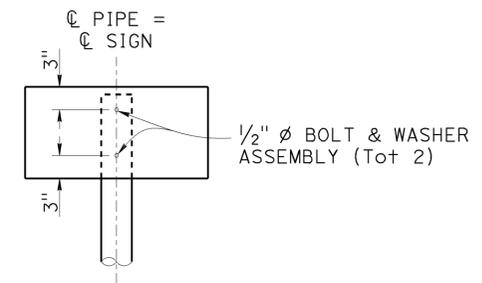
**DIAMOND SHAPED SIGN
48" x 48" AND 36" x 36"
SIGN PANELS**



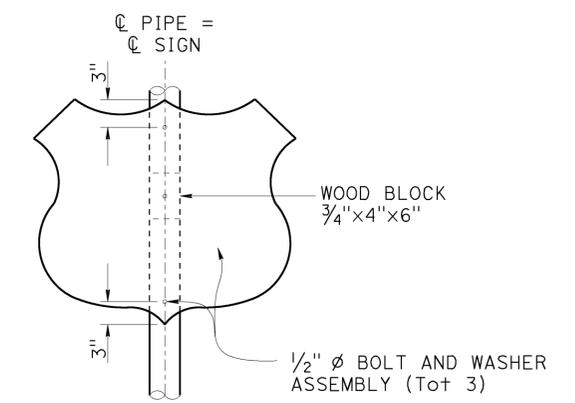
**RECTANGULAR SIGN
48" x 42"
SIGN PANEL**



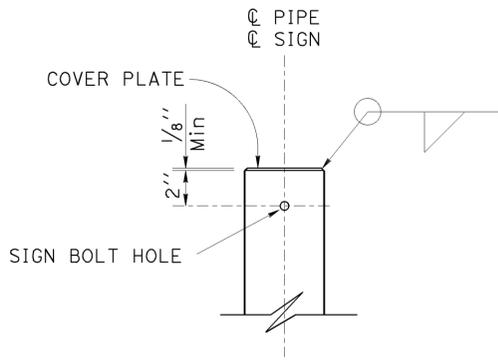
**SQUARE SIGN
30" x 30"
SIGN PANEL**



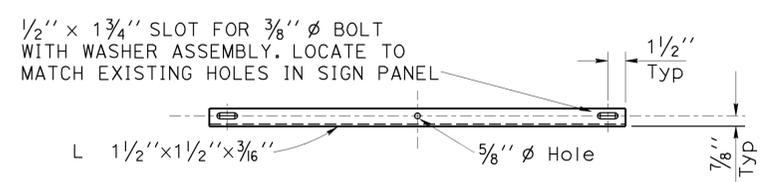
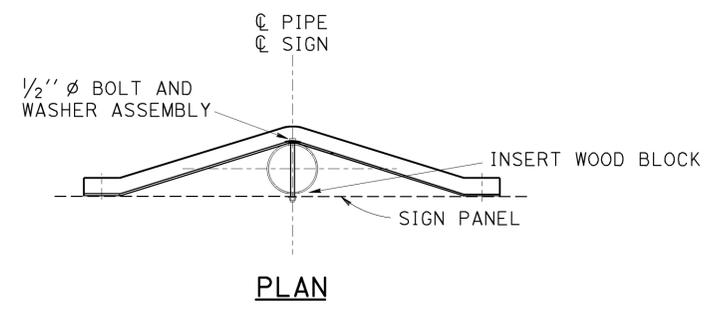
**RECTANGULAR SIGN
24" x 12" AND 21" x 15"
SIGN PANELS**



**RECTANGULAR SIGN
28" x 24"
SIGN PANEL**



TOP OF POST DETAIL

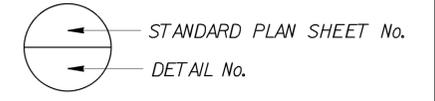


BACK BRACE DETAILS

NOTES:

1. For details not shown, see "Standard Plans 2010" and "Revised Standard Plans 2010".
2. All bolts must have a washer under the nut. Bolts through pipe must be 1/2" diameter. Bolts through sign panel and back brace must be 3/8" diameter. Ream holes in sign as required.
3. Washer assembly consists of two oversize washers, two fiber washers, nut and jam nut.
4. All steel must be galvanized.

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



BRANCH CHIEF	DESIGN	BY J. JAUREGUI	CHECKED D. VORA	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES	BRIDGE NO.	CORTE MADERA CREEK BRIDGE		SDS-9
	DETAILS	BY M. CLEVERLEY	CHECKED J. JAUREGUI			Var	NB OFF-RAMP AND SB ON-RAMP		
	QUANTITIES	BY J. JAUREGUI	CHECKED D. VORA	DEPARTMENT OF TRANSPORTATION	SPECIAL DESIGNS BRANCH	POST MILE	BARRIER RAIL MOUNTED SIGN - DETAILS 3		