

INDEX OF PLANS

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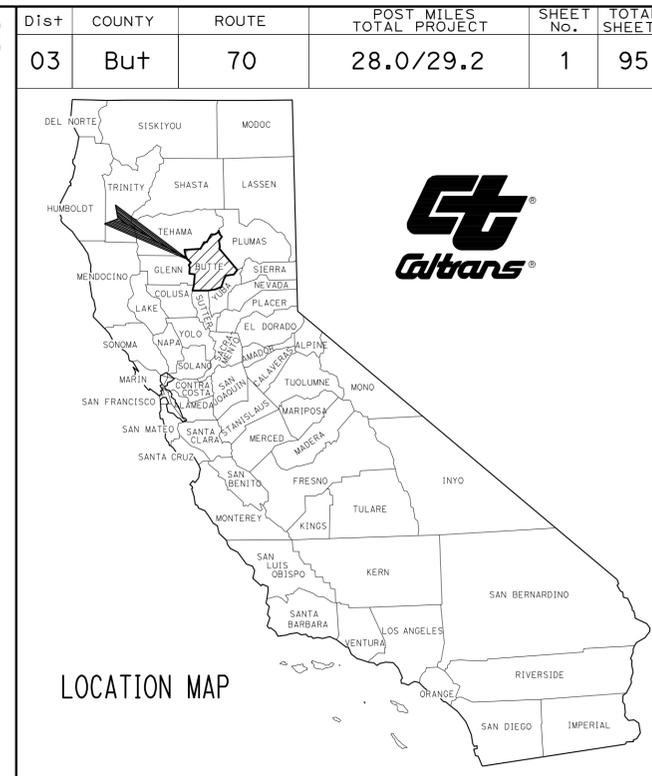
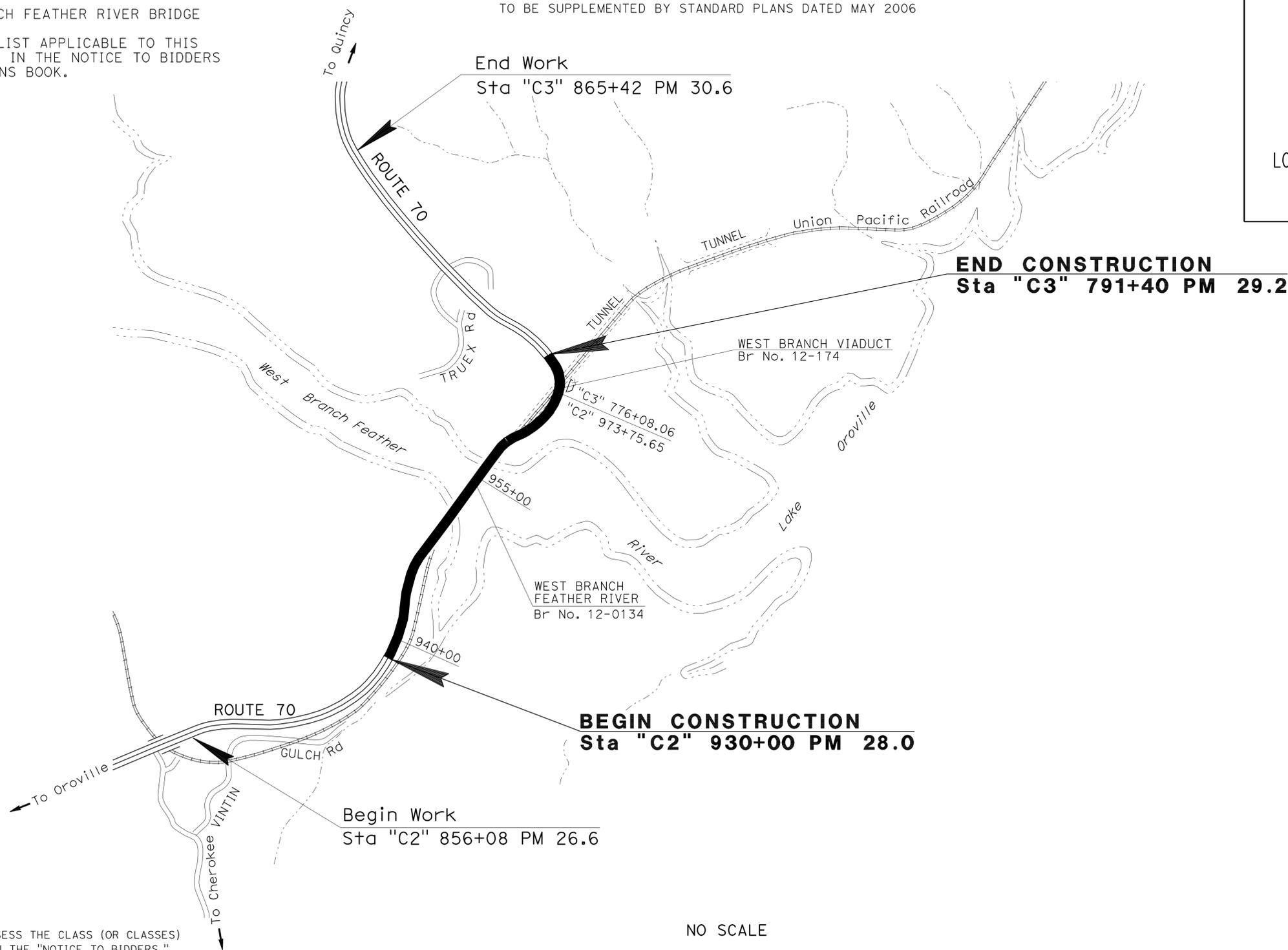
STRUCTURE PLANS

36-95 WEST BRANCH FEATHER RIVER BRIDGE

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA **ACSTPBH-P070(103)E**
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN BUTTE COUNTY
NEAR CHEROKEE AT
WEST BRANCH FEATHER RIVER BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER
JOHN HOLDER
 DESIGN ENGINEER
ALI KIANI

PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER
 DATE: 1-13-12
 May 21, 2012
 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.



CONTRACT No.	03-1E5104
PROJECT ID	0300000266

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	2	95

REGISTERED CIVIL ENGINEER	DATE
<i>Rabindra Gaji</i>	1-13-12
PLANS APPROVAL DATE	
5-21-12	

REGISTERED PROFESSIONAL ENGINEER
RABINDRA N GAJI
No. C 54136
Exp. 12/31/13
CIVIL

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NOTE:

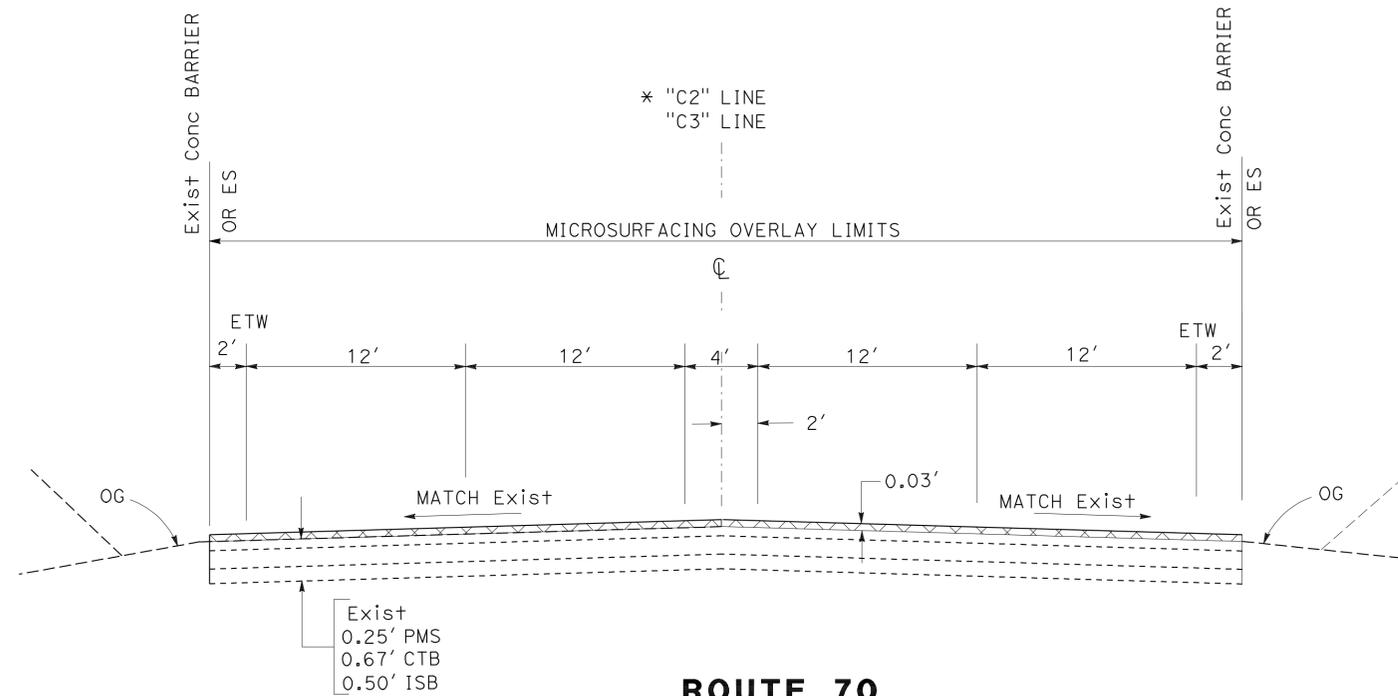
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.

ABBREVIATIONS:

PMS PLANT MIX SURFACING (TYPE B)
 ISB IMPORTED SUBBASE MATERIAL
 CTB CEMENT TREATED BASE

LEGEND:

 MICROSURFACING OVERLAY



ROUTE 70

Sta "C2" 930+00 TO "C2" 942+59.75
 Sta "C2" 969+90.75 TO "C2" 973+75.65
 Sta "C3" 776+08.06 TO "C3" 783+10
 Sta "C3" 786+10.00 TO "C3" 791+40
 * EQUATION: "C2" 973+75.65 POC = "C3" 776+08.06 BC

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
Caltrans DIVISION OF ENGINEERING	ALI KIANI	ALI KIANI	RABINDRA GAJI
	CHECKED BY	DATE	REVISED BY
			ALI KIANI

TYPICAL CROSS SECTIONS
 NO SCALE
X-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	3	95

REGISTERED CIVIL ENGINEER	DATE
<i>Rabindra Gaji</i>	1-13-12
PLANS APPROVAL DATE	
5-21-12	

REGISTERED PROFESSIONAL ENGINEER
RABINDRA N GAJI
No. C 54136
Exp. 12/31/11
CIVIL

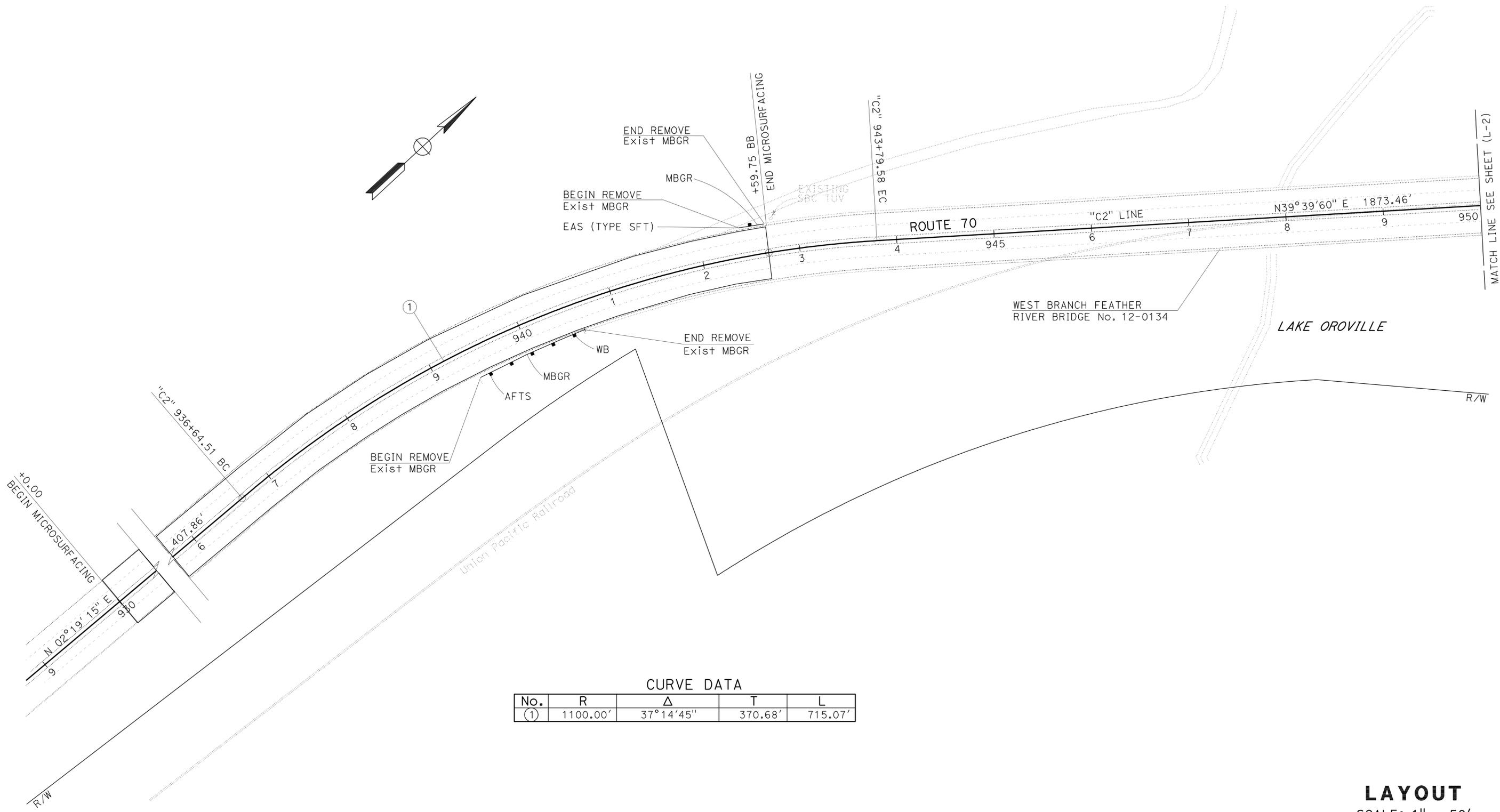
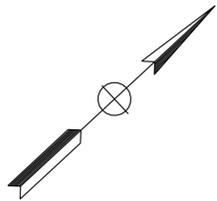
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE SHEETS C-1 AND Q-1 FOR MBGR DETAILS AND QUANTITIES.
3. R/W LIMITS ON THE WEST SIDE ARE BEYOND THE LIMITS OF SHEET L-1.

ABBREVIATIONS:

- SBC SOUTH WESTERN BELL CORPORATION
TUV TELEPHONE UTILITY VAULT
AFTS ALTERNATIVE FLARED TERMINAL SYSTEM
WB TRANSITION RAILING (TYPE WB)
EAS (TYPE SFT) END ANCHOR ASSEMBLY (TYPE SFT)



CURVE DATA

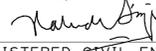
No.	R	Δ	T	L
(1)	1100.00'	37°14'45"	370.68'	715.07'

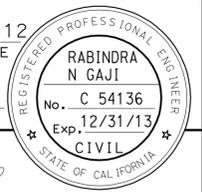
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DIVISION OF ENGINEERING
FUNCTIONAL SUPERVISOR: ALI KIANI
CALCULATED/DESIGNED BY: ALI KIANI
CHECKED BY:
REVISOR: RABINDRA GAJI
DATE: ALI KIANI
DATE:

LAYOUT
SCALE: 1" = 50'

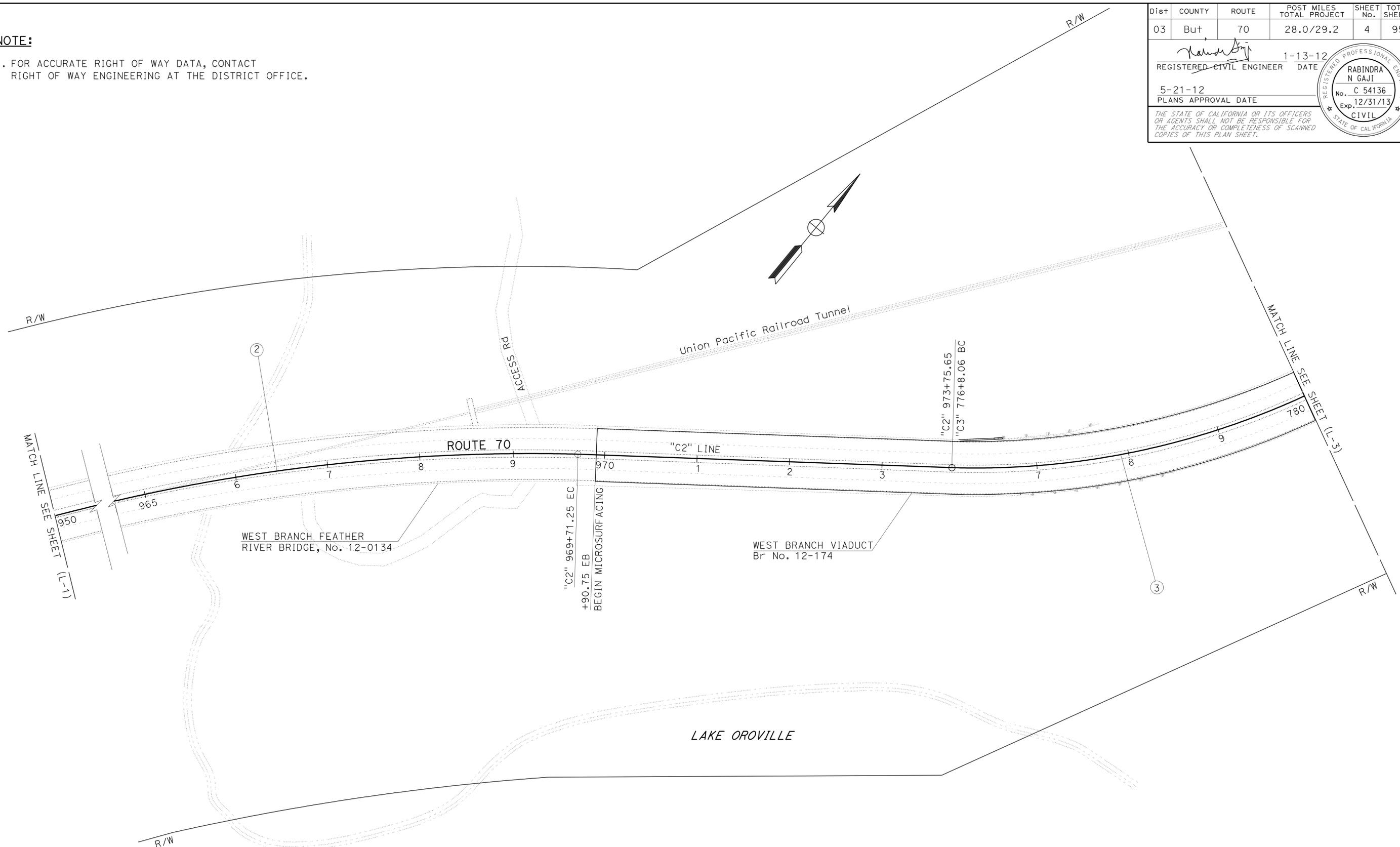
L-1

LAST REVISION | DATE PLOTTED => 25-MAY-2012
00-00-00 | TIME PLOTTED => 15:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	4	95
 REGISTERED CIVIL ENGINEER			1-13-12	DATE	
5-21-12 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 ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURVE DATA

No.	R	Δ	T	L
(2)	2000.00'	15°42'00"	275.74'	548.03'
(3)	850.00'	26°27'54"	199.88'	392.62'

LAYOUT
 SCALE: 1" = 50'
L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans DIVISION OF ENGINEERING	ALI KIANI	ALI KIANI	RABINDRA GAJI
		CHECKED BY	DATE REVISED
			ALI KIANI

LAST REVISION | DATE PLOTTED => 25-MAY-2012
 00-00-00 | TIME PLOTTED => 15:42

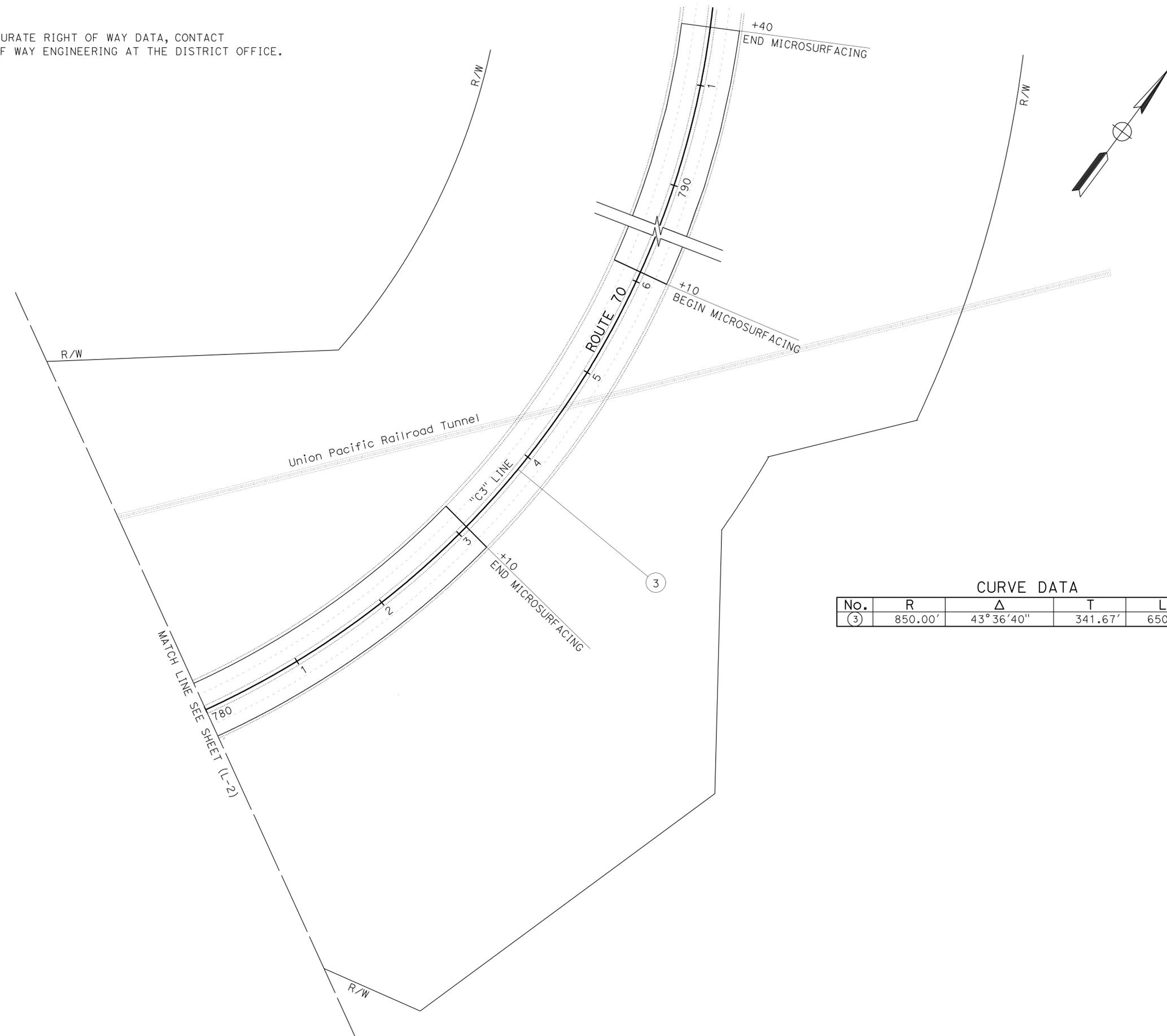
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	5	95

1-13-12
 REGISTERED CIVIL ENGINEER DATE
 5-21-12
 PLANS APPROVAL DATE

RABINDRA
 N GAJI
 No. C 54136
 Exp. 12/31/13
 CIVIL
 STATE OF CALIFORNIA

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NOTE:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURVE DATA

No.	R	Δ	T	L
(3)	850.00'	43°36'40"	341.67'	650.03'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION Caltrans DIVISION OF ENGINEERING	FUNCTIONAL SUPERVISOR ALI KIANI	CALCULATED/DESIGNED BY RABINDRA GAJI	REVISOR RABINDRA GAJI
		CHECKED BY ALI KIANI	DATE REVISOR ALI KIANI

LAYOUT
 SCALE: 1" = 50'

L-3

LAST REVISION | DATE PLOTTED => 25-MAY-2012
 00-00-00 | TIME PLOTTED => 15:42

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

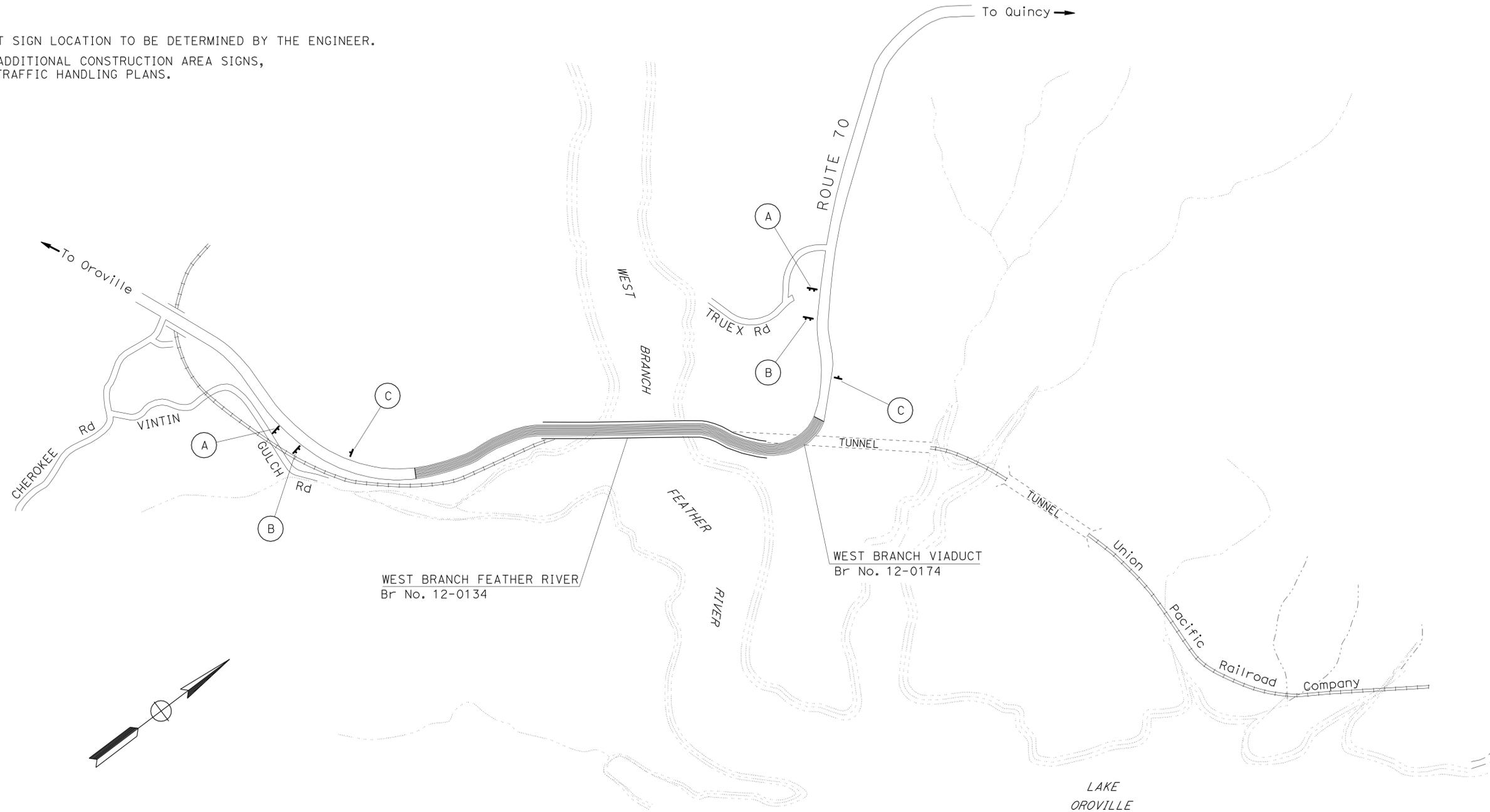
SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 6" x 6"	2
(B)		C40(Mod)	72" x 42"	TRAFFIC FINES DOUBLED IN WORK ZONES	2 - 4" x 6"	2
(C)	G20-2	C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	2

LEGEND:

- (No.) CONSTRUCTION AREA SIGN LETTER
- 1 SIGN - SINGLE POST
- 2 SIGN - TWO POST

NOTES:

- EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
- FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE TRAFFIC HANDLING PLANS.



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

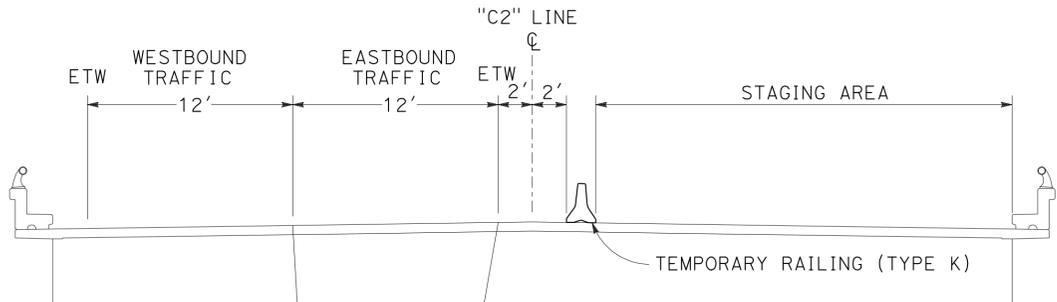
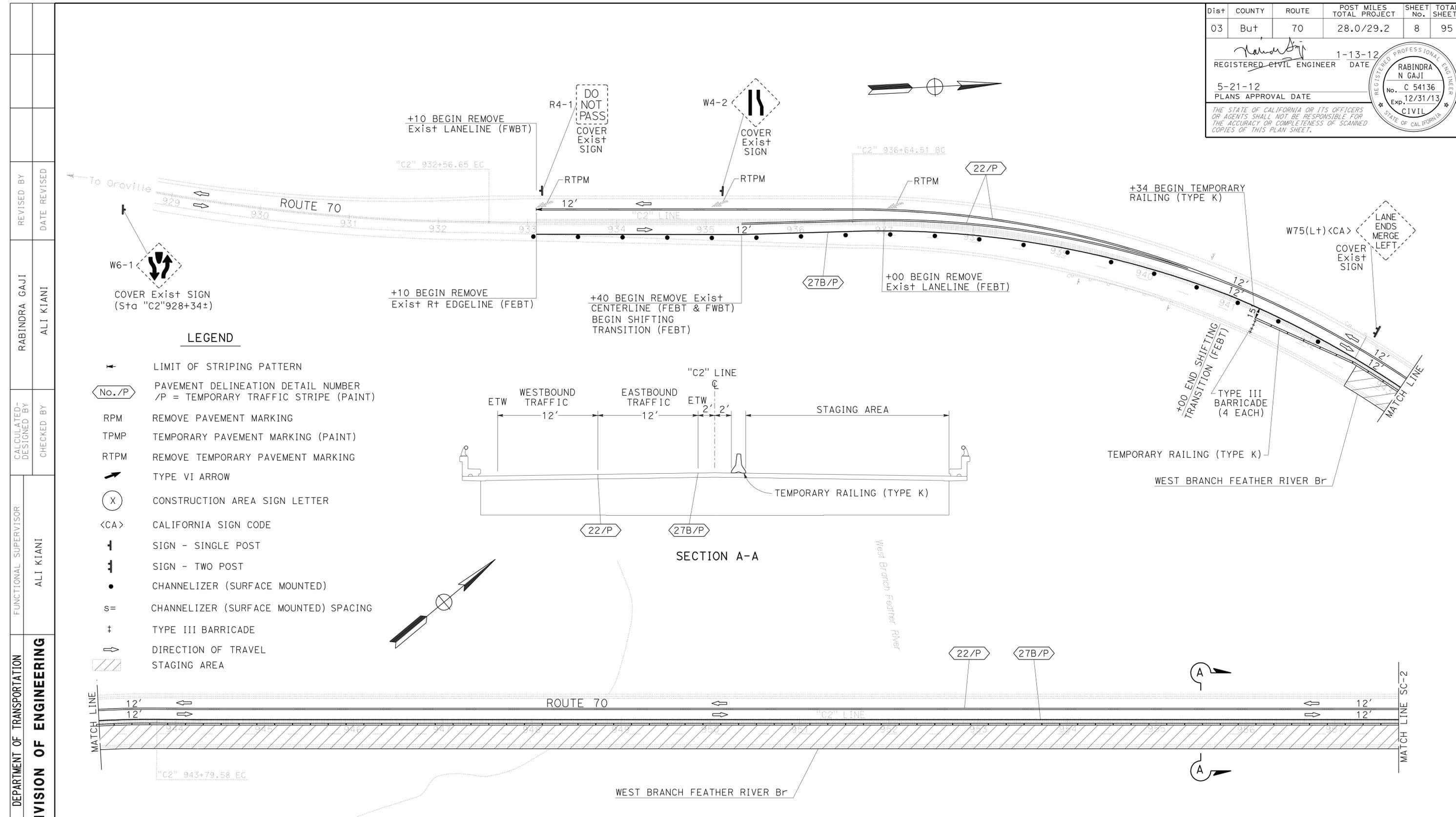
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	8	95

1-13-12
 REGISTERED CIVIL ENGINEER DATE
 5-21-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 RABINDRA N GAJI
 No. C 54136
 Exp. 12/31/13
 CIVIL
 STATE OF CALIFORNIA

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LEGEND

- ← LIMIT OF STRIPING PATTERN
- No./P PAVEMENT DELINEATION DETAIL NUMBER /P = TEMPORARY TRAFFIC STRIPE (PAINT)
- RPM REMOVE PAVEMENT MARKING
- TPMP TEMPORARY PAVEMENT MARKING (PAINT)
- RTPM REMOVE TEMPORARY PAVEMENT MARKING
- ↔ TYPE VI ARROW
- (X) CONSTRUCTION AREA SIGN LETTER
- <CA> CALIFORNIA SIGN CODE
- † SIGN - SINGLE POST
- ‡ SIGN - TWO POST
- CHANNELIZER (SURFACE MOUNTED)
- s= CHANNELIZER (SURFACE MOUNTED) SPACING
- ‡ TYPE III BARRICADE
- ↔ DIRECTION OF TRAVEL
- ▨ STAGING AREA

NOTES:

1. ALL CHANNELIZERS (SURFACE MOUNTED) SHALL BE INSTALLED ON 50' CENTERS UNLESS OTHERWISE SHOWN.
2. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
3. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE SHEET CS-1.

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1
SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
 RABINDRA GAJI ALI KIANI
 REVISED BY DATE REVISED
 CALCULATED/DESIGNED BY CHECKED BY
 FUNCTIONAL SUPERVISOR
 STATE OF CALIFORNIA

LAST REVISION DATE PLOTTED => 25-MAY-2012 TIME PLOTTED => 15:42

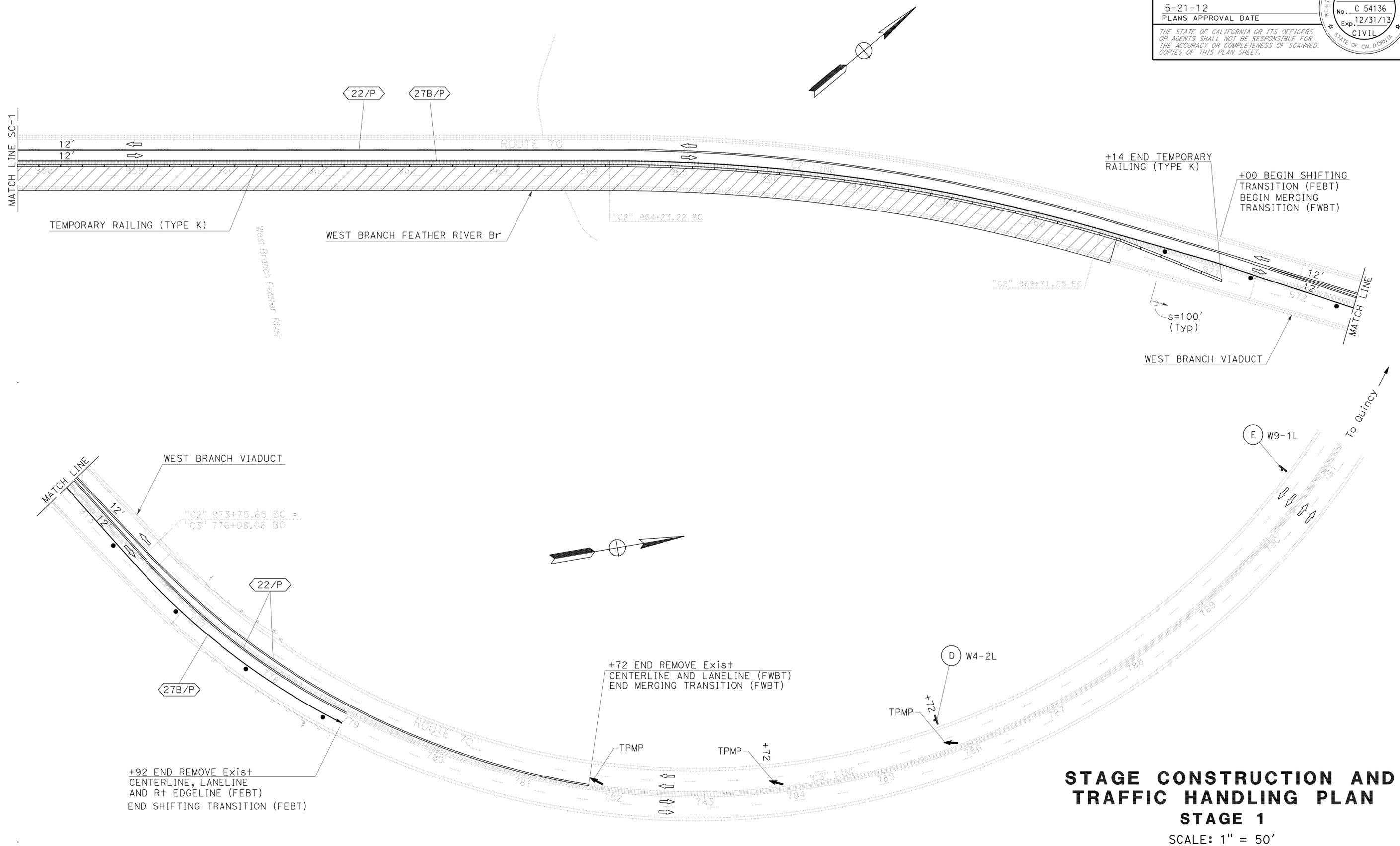
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Bu+	70	28.0/29.2	9	95

REGISTERED CIVIL ENGINEER	DATE	1-13-12
PLANS APPROVAL DATE		5-21-12

REGISTERED PROFESSIONAL ENGINEER	RABINDRA N GAJI
No.	C 54136
Exp.	12/31/13
CIVIL	

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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	ALI KIANI
Caltrans DIVISION OF ENGINEERING	CALCULATED/DESIGNED BY	RABINDRA GAJI
	CHECKED BY	ALI KIANI
	REVISOR	REVISOR
	DATE	DATE



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 1
 SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

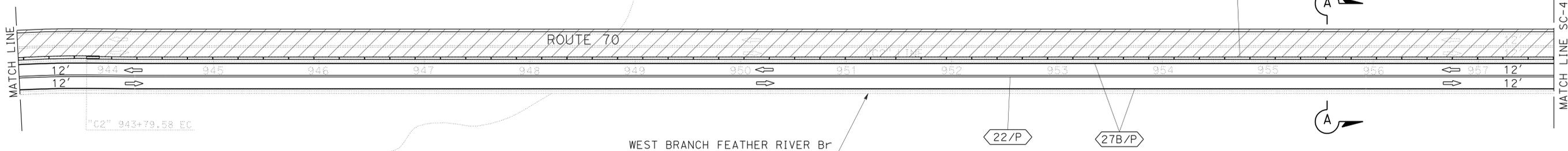
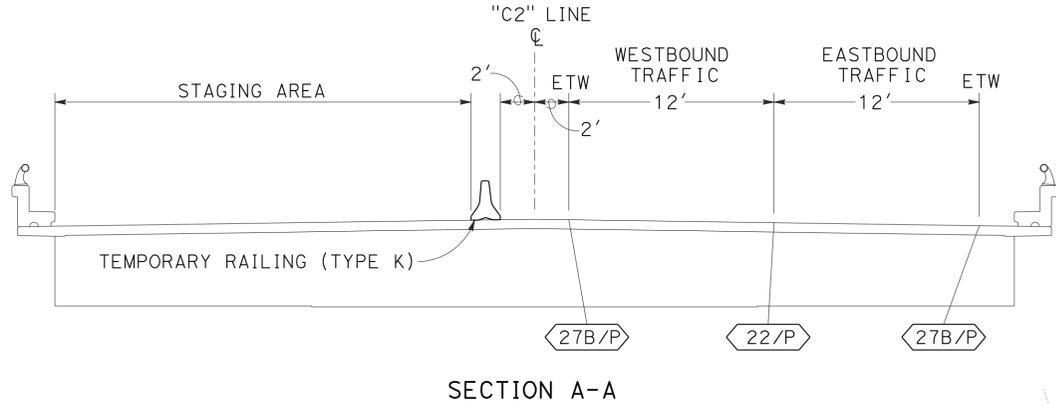
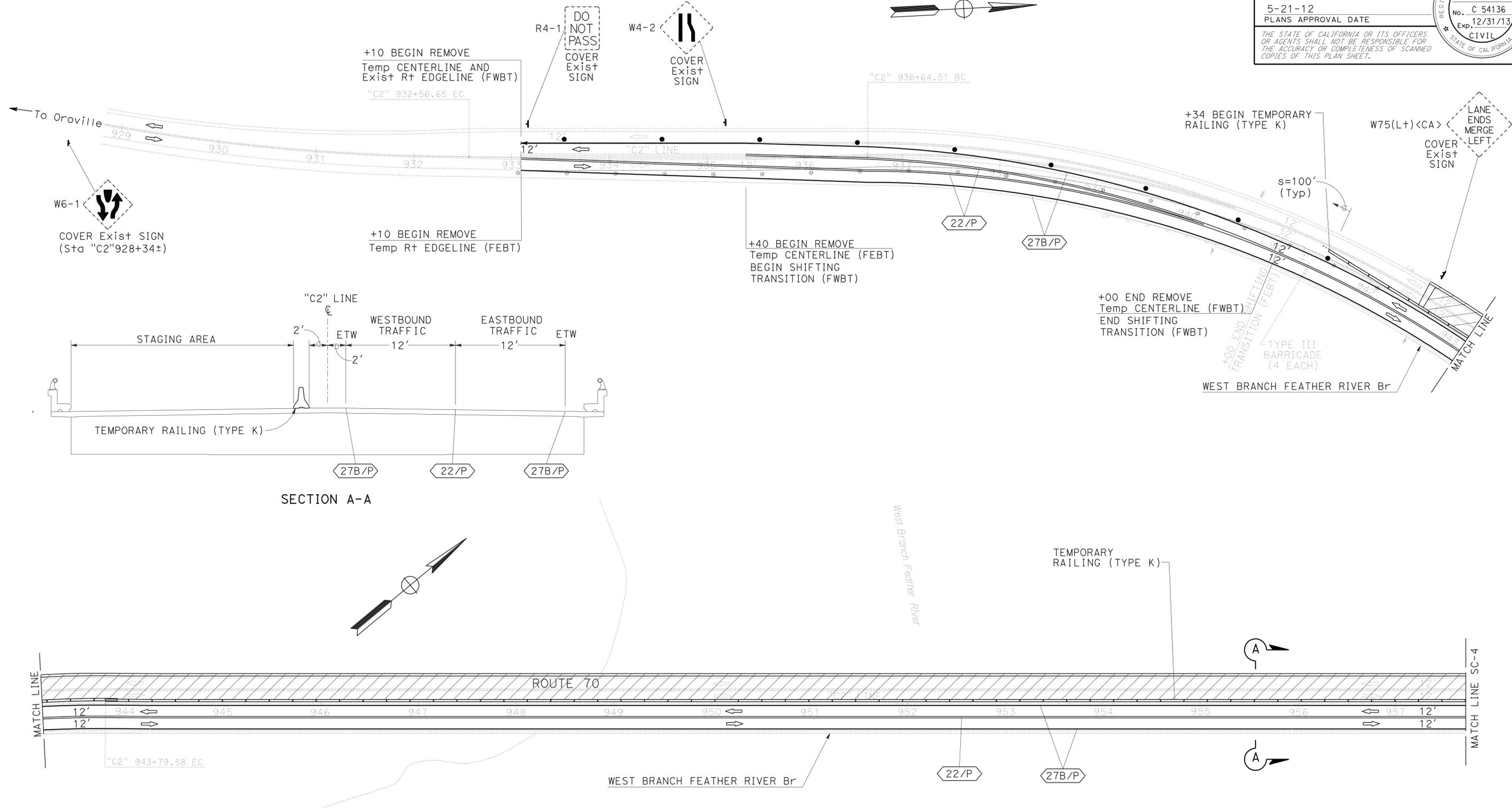
SC-2

LAST REVISION DATE PLOTTED => 25-MAY-2012
 00-00-00 TIME PLOTTED => 15:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	10	95

REGISTERED CIVIL ENGINEER DATE 1-13-12
 5-21-12 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.

REGISTERED PROFESSIONAL ENGINEER
 RABINDRA N GAJI
 No. C 54136
 Exp. 12/31/13
 CIVIL
 STATE OF CALIFORNIA



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 2
 SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
 RABINDRA GAJI
 ALI KIANI
 ALI KIANI
 ALI KIANI

USERNAME => s114640
 DGN FILE => 0300000266ma003.dgn

RELATIVE BORDER SCALE IS IN INCHES
 0 1 2 3

UNIT 0308

PROJECT NUMBER & PHASE 03000002661

LAST REVISION DATE PLOTTED => 25-MAY-2012
 00-00-00 TIME PLOTTED => 15:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	13	95

REGISTERED CIVIL ENGINEER DATE 1-13-12
 5-21-12
 PLANS APPROVAL DATE

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REMOVE TRAFFIC STRIPE AND PAVEMENT MARKING

STAGE	STATION LIMITS	DIRECTION		REMOVE THERMOPLASTIC TRAFFIC STRIPE				REMOVE PAINTED TRAFFIC STRIPE		REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAINTED PAVEMENT MARKING
		FEBT	FWBT	DETAIL 12	DETAIL 22	DETAIL 27B	DETAIL 29	DETAIL 22	DETAIL 27B	TYPE VI ARROW	TYPE VI ARROW
				LF	LF	LF	LF	LF	LF	SQFT	SQFT
STAGE 1	"C2" 933+10 TO 935+40	X				230					
	"C2" 935+40 TO 937+00		X	58			160	320		84	
	"C2" 937+00 TO 973+76	X		40			320			42	
	"C2" 937+00 TO 973+76	X	X	919		3,676	7,352				
	"C2" 937+00 TO 973+76		X	919			7,352				
STAGE 2	"C3" 776+08 TO 778+92	X		71		284	568				
	"C3" 778+92 TO 781+72		X	71			568				
	"C3" 778+92 TO 781+72		X	70			560				
	"C2" 933+10 TO 935+40	X				230		460	230		
	"C2" 935+40 TO 941+00	X	X				560	1,120	560		
	"C2" 941+00 TO 971+00	X				3,000		6,000	3,000		
	"C2" 971+00 TO 973+76	X	X				276	552	276		
"FINAL" (SEE NOTE)	"C3" 776+08 TO 778+92	X					284	568	284		
	"C3" 778+92 TO 781+72		X				280	560			
	"C3" 781+72 TO 787+32		X	140		620	310				126
	"C2" 930+00 TO 933+10	X					310				
	"C2" 933+10 TO 935+40	X	X				460				
SUBTOTAL	"C2" 933+10 TO 935+40	X					460				
	"C2" 942+60 TO 969+91	X	X				5,462	2,731	2,731		
	"C3" 778+92 TO 781+72		X	70		280	560				
	"C3" 781+72 TO 787+32	X					1,120				
	"C3" 781+72 TO 787+32		X	140		560	1,120				
SUBTOTAL				2,498	620	11,000	20,760	16,962	9,812	126	126
TOTAL				34,878				26,774		126	126

NOTE: "FINAL" REPRESENTS THE EXISTING AND/OR TEMPORARY TRAFFIC STRIPE TO BE REMOVED PRIOR TO PLACEMENT OF MICRO-SURFACING.

**TRAFFIC HANDLING
 QUANTITIES**

THQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DIVISION OF ENGINEERING
 RABINDRA GAJI
 ALI KIANI
 ALI KIANI
 ALI KIANI
 REVISIONS: 00-00-00 DATE PLOTTED => 25-MAY-2012 TIME PLOTTED => 15:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	14	95

1-13-12
 REGISTERED CIVIL ENGINEER DATE
 5-21-12
 PLANS APPROVAL DATE

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ADDITIONAL STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
D	W4-2L		48" x 48"	LANE TRANSITION SYMBOL SIGN	1 - 6" x 6"	1
E	W9-1L		48" x 48"	LEFT LANE ENDS	1 - 6" x 6"	1
F	W4-2R		48" x 48"	LANE TRANSITION SYMBOL SIGN	1 - 6" x 6"	1
G	W9-1R		48" x 48"	RIGHT LANE ENDS	1 - 6" x 6"	1

NOTES:

1. ALL "W" SERIES SIGNS SHALL BE ORANGE RETROREFLECTIVE BACKGROUND WITH BLACK LEGEND AND BORDER.
2. FOR ADDITIONAL STATIONARY MOUNTED CONSTRUCTION AREA SIGNS, SEE SHEET CS-1.
3. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

TEMPORARY TRAFFIC CONTROL DEVICES

STAGE	STATION LIMITS	DIRECTION		TEMPORARY TRAFFIC STRIPE (PAINT)		TEMPORARY PAVEMENT MARKER	TEMPORARY PAVEMENT MARKING (PAINT)	CHANNELIZER (SURFACE MOUNTED)	TYPE III BARRICADE	
				DETAIL 22	DETAIL 27B	TYPE D	TYPE VI ARROW		FURNISH	*
		FEBT	FWBT	LF	LF	EA	SQFT	EA	EA	INSTALL
STAGE 1	"C2" 933+10 TO 935+40	X			230			5		
	"C2" 935+40 TO 941+00	X	X	230	560	20		11		
	"C2" 941+00 TO 971+00	X	X	560	560	48				
	"C2" 971+00 TO 973+76	X		3,000	3,000	48		4	4	4
	"C2" 971+00 TO 973+76	X	X	276	276	26		3		
	"C3" 776+08 TO 778+92	X	X	276	276	26				
	"C3" 776+08 TO 778+92	X	X	284	284	26		3		
STAGE 2	"C3" 778+92 TO 781+72		X	284	284	26				
	"C3" 781+72 TO 785+72		X	280	280	26				
	"C2" 933+10 TO 935+40	X	X	230	230	20				
	"C2" 935+40 TO 941+00	X	X	230	230	20		2		
	"C2" 935+40 TO 941+00	X	X	560	560	48				
	"C2" 935+40 TO 941+00	X	X	560	560	48		6		
	"C2" 941+00 TO 971+00	X	X	3,000	3,000	252				
	"C2" 941+00 TO 971+00	X	X	276	276	26		3		
"C2" 971+00 TO 973+76	X	X	276	276	26					
"C2" 971+00 TO 973+76	X	X	276	276	26		5		3	
"C3" 776+08 TO 778+92	X	X	284	284	26					
"C3" 776+08 TO 778+92	X	X	284	284	26		6			
"C3" 778+92 TO 781+72		X	284	284	26					
"C3" 778+92 TO 781+72		X	280	280	26		2			
"C3" 781+72 TO 787+32		X	280	280	26		6			
"C3" 781+72 TO 787+32		X	560	560	26					
"C3" 787+32 TO 791+32		X				126				
SUBTOTAL				11,500	13,890	996	252	56	4	—
TOTAL				25,390		996	252	56	4	—

* - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

TRAFFIC HANDLING QUANTITIES

THQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
 RABINDRA GAJI
 ALI KIANI
 REVISOR BY
 DATE REVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 ALI KIANI

LAST REVISION | DATE PLOTTED => 25-MAY-2012
 00-00-00 | TIME PLOTTED => 15:40

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: SERGIO ACEVES
 CALCULATED/DESIGNED BY: JACK KEMMERLY
 CHECKED BY: JEFF JEWETT
 REVISIONS: (Grid of X's)
 REVISOR: (Grid of X's)
 DATE: (Grid of X's)
 REVISION: (Grid of X's)
 DATE: (Grid of X's)

LEGEND

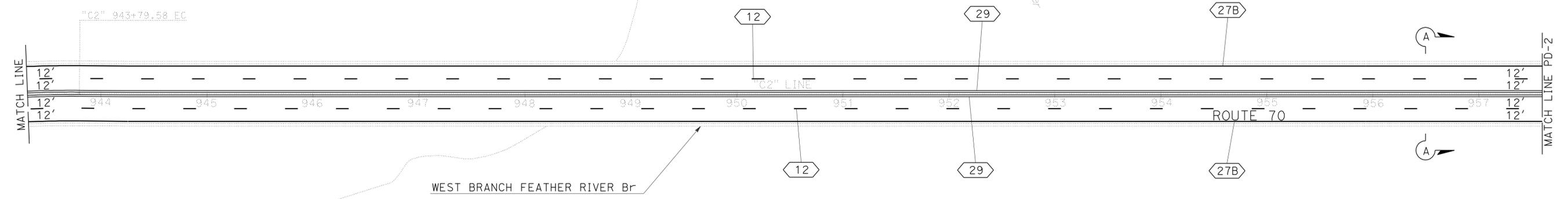
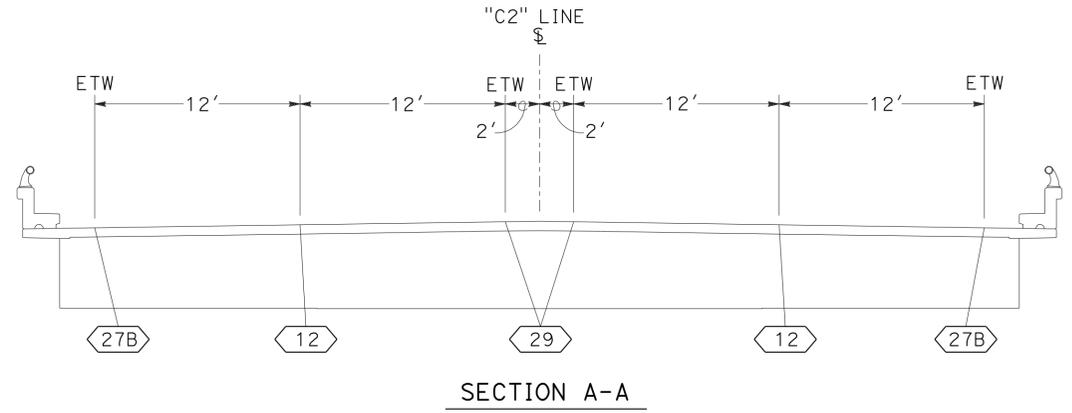
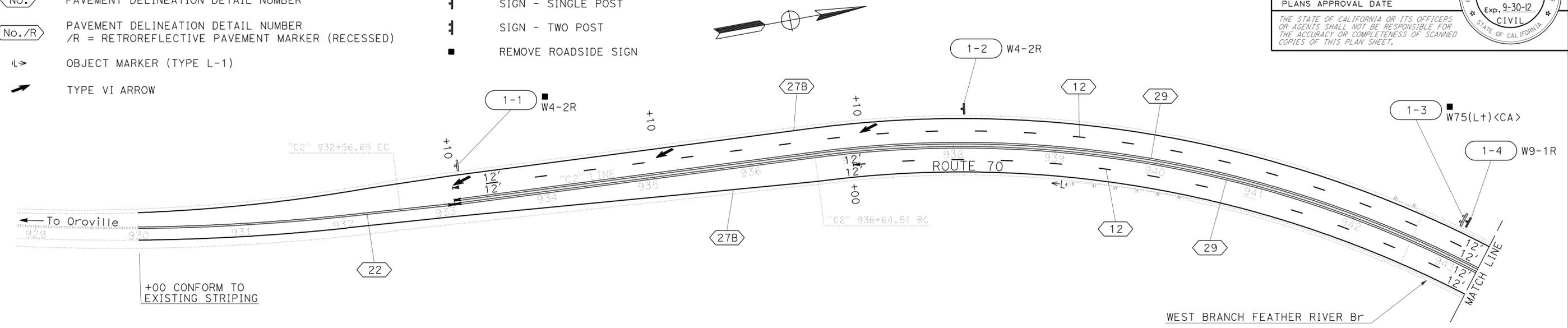
- ↑ LIMIT OF STRIPING PATTERN
- ↔ CHANGE IN STRIPING PATTERN
- ⬡ No. PAVEMENT DELINEATION DETAIL NUMBER
- ⬡ No./R PAVEMENT DELINEATION DETAIL NUMBER /R = RETROREFLECTIVE PAVEMENT MARKER (RECESSED)
- ⊕ OBJECT MARKER (TYPE L-1)
- ↗ TYPE VI ARROW
- Sh+No. ROADSIDE SIGN NUMBER
- <CA> CALIFORNIA SIGN CODE
- ↑ SIGN - SINGLE POST
- ↑↑ SIGN - TWO POST
- REMOVE ROADSIDE SIGN

NOTES:

1. ALL EXISTING SIGNS NOT SHOWN FOR REMOVAL SHALL REMAIN IN PLACE.
2. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	15	95

REGISTERED CIVIL ENGINEER: Jeffrey S. Jewett
 No. 49233
 Exp. 9-30-12
 DATE: 1-13-12
 PLANS APPROVAL DATE: 5-21-12
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.



PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1" = 50'

PD-1

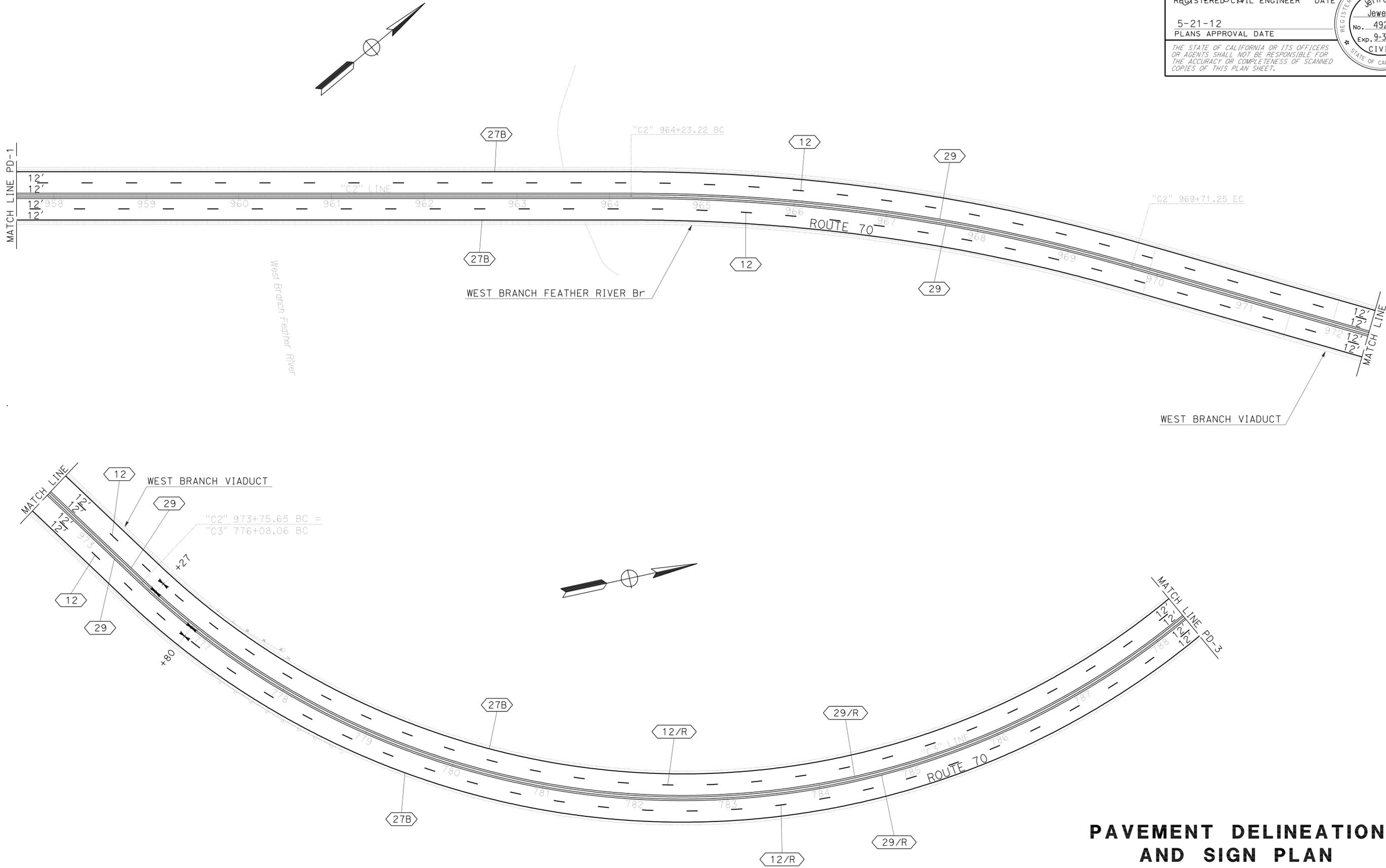
APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	16	95

REGISTERED CIVIL ENGINEER: Jeffrey S. Jewett
 DATE: 1-13-12
 PLANS APPROVAL DATE: 5-21-12
 No. 49233
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	SERGIO ACEVES	JACK KEMMERLY	JEFF JEWETT
TRAFFIC		CHECKED BY	DATE REVISED



PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1" = 50'

PD-2

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

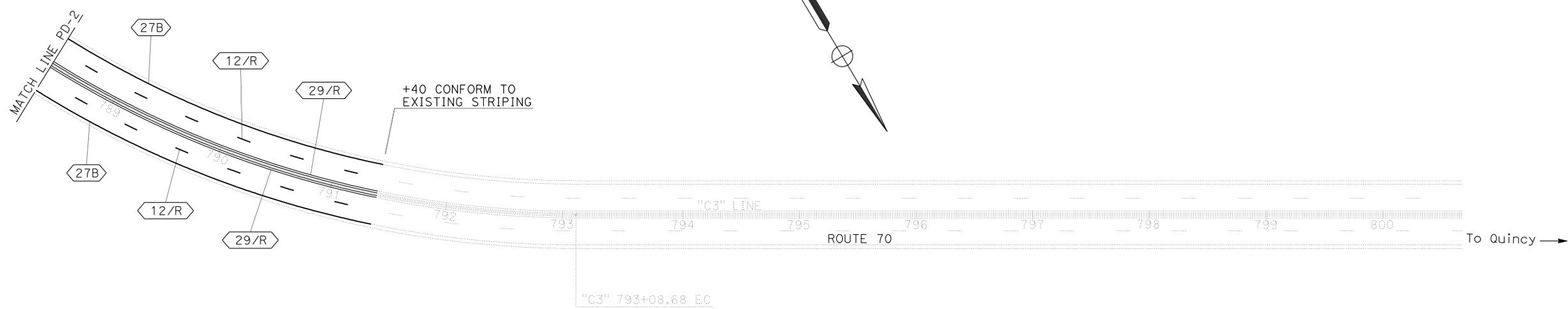
LAST REVISION: 12-5-11
 DATE PLOTTED => 25-MAY-2012
 TIME PLOTTED => 15:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	17	95

<i>Jeffrey Jewett</i>	1-13-12
REGISTERED CIVIL ENGINEER	DATE
5-21-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER Jeffrey S. Jewett No. 49233 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	JACK KEMMERLY	REVISOR BY	
Caltrans	SERGIO ACEVES	CHECKED BY	JEFF JEWETT	DATE	
TRAFFIC					

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1" = 50'

PD-3

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

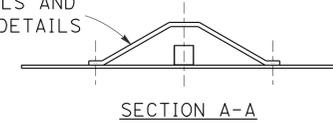
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	19	95

REGISTERED CIVIL ENGINEER <i>Jeffrey S. Jewett</i> No. 49233 Exp. 9-30-12 CIVIL	1-13-12 DATE
5-21-12 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>	

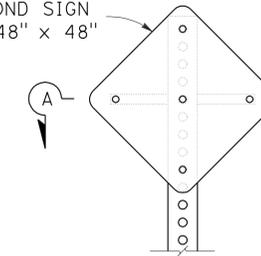
NOTES:

1. THE SIGN POST SHALL HAVE 7/16" DIAMETER PERFORATIONS 1" ON CENTER ON ALL FOUR SIDES FOR THE FULL LENGTH.
2. USE TWO DRIVE RIVETS TO FASTEN ASSEMBLED SIGN AND SIGN POST INTO ANCHOR SLEEVE. INSTALL DRIVE RIVETS INTO THE SIDES FACING TRAFFIC.
3. ALL METAL SIGN POSTS AND ANCHOR SLEEVES SHALL BE GALVANIZED.
4. ALL ANCHOR SLEEVES SHALL BE EMBEDDED IN PCC.
5. BALANCED SINGLE POST INSTALLATIONS OF SINGLE SHEET ALUMINUM PANEL SIGNS REQUIRE BACK BRACES WHEN 2'-10" OR MORE IN LENGTH.
6. WOOD BLOCK SPACERS ARE NOT REQUIRED FOR SIGNS MOUNTED ON METAL POSTS.
7. ATTACH DIAMOND SIGN PANEL TO SIGN POST WITH BOLT AT CENTER. TOP AND BOTTOM MAY BE ATTACHED WITH EITHER BOLTS OR 3/8" DRIVE RIVETS.
8. FOR DETAILS NOT SHOWN, SEE STANDARD PLANS RS1 AND RS2.

SEE BACK BRACE DETAILS AND BACK BRACE MOUNTING DETAILS

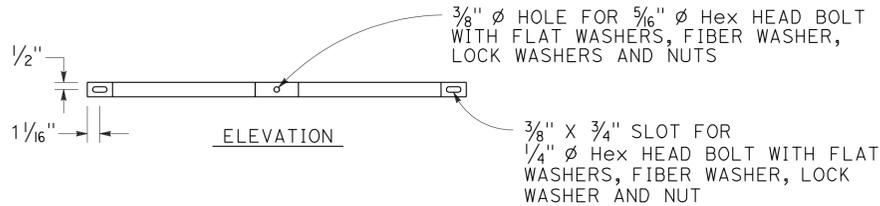
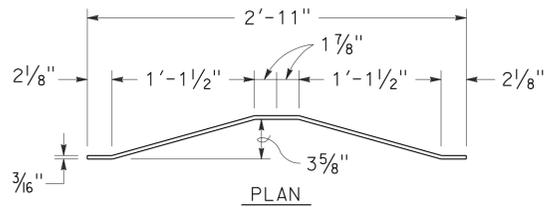


Max DIAMOND SIGN PANEL = 48" x 48"

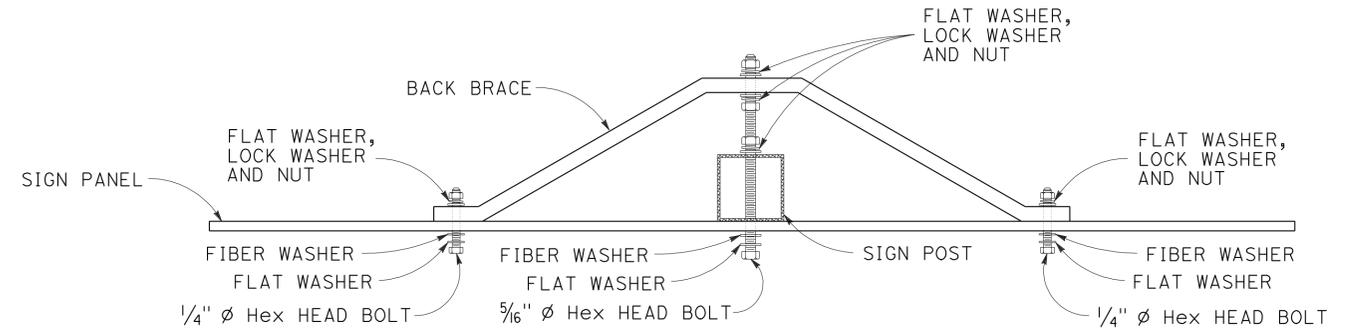


BALANCED
SEE NOTE 7

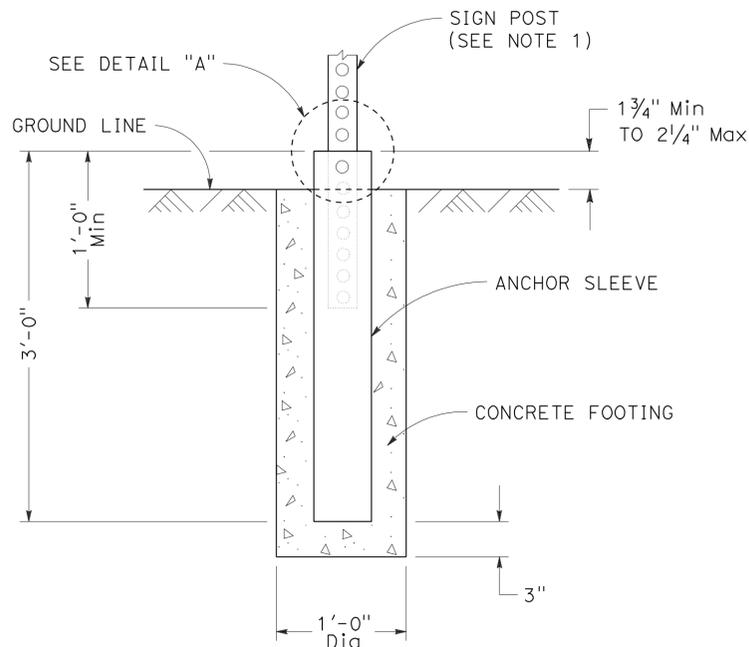
SINGLE POST INSTALLATION



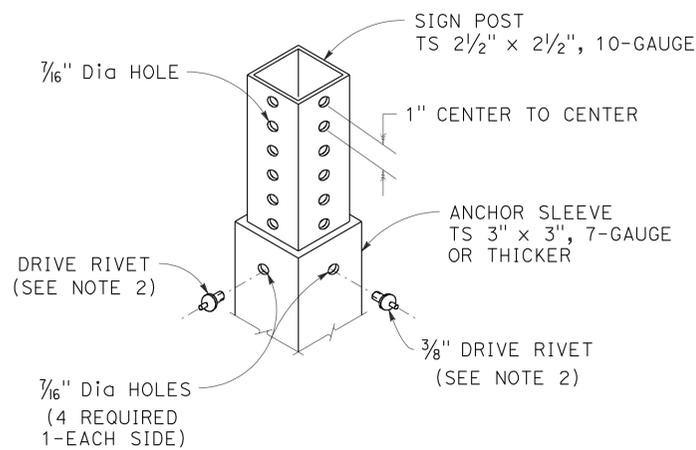
BACK BRACE DETAILS
SEE NOTE 5



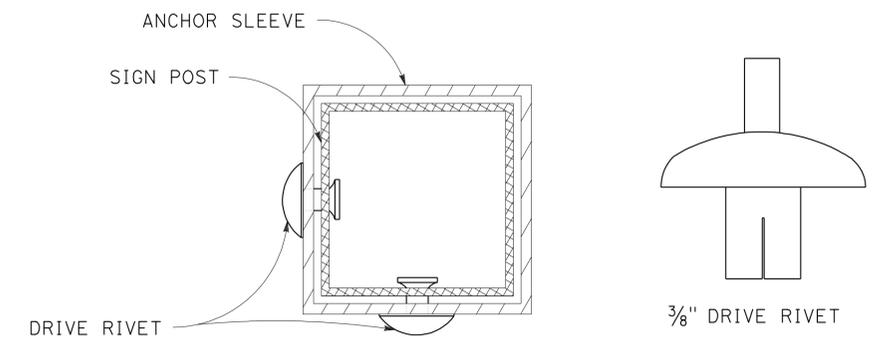
BACK BRACE MOUNTING DETAIL
SEE NOTES 6, 7 AND 8



ANCHOR SLEEVE DETAIL



DETAIL "A"



FASTENER DETAILS

SIGN DETAILS
NO SCALE

SD-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	20	95

1-13-12
 REGISTERED CIVIL ENGINEER DATE
 5-21-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 RABINDRA N GAJI
 No. C 54136
 Exp. 12/31/13
 CIVIL
 STATE OF CALIFORNIA

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NOTES

1. Lt or Rt DENOTES SIDE OF HIGHWAY IN THE DIRECTION OF TRAVEL (WB, EB).
2. MINOR CONCRETE (MINOR STRUCTURE) ITEM IS FOR NEW CONCRETE ANCHOR BLOCK FOR TRANSITION RAILING CONNECTION.
3. ALL METAL BEAM GUARD RAILING POSTS TO BE STEEL.

METAL BEAM GUARD RAILING

LOCATION (Sta TO Sta)	DIRECTION	L+/R+	REMOVE MBGR		ALTERNATIVE FLARED TERMINAL SYSTEM	TRANSITION RAILING (TYPE WB)	END ANCHOR ASSEMBLY (TYPE SFT)	END CAP (TYPE A)	END CAP (TYPE TC)	MBGR LAYOUT TYPE (N)
			LF	MBGR						
"C2" 939+39 TO 940+65	EB	R+	126	37.5	1	1			1	12 BB
"C2" 942+34.75 TO 942+56.75	WB	L+	25	25			1	1		12 DD
TOTAL			151	62.5	1	1	1	1	1	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

MINOR CONCRETE AND STEEL

LOCATION (Sta TO Sta)	MINOR CONCRETE (MINOR STRUCTURE)		MISCELLANEOUS IRON AND STEEL	
	ANCHOR BLOCK DETAIL "A"	ANCHOR BLOCK DETAIL "B"	ANCHOR BLOCK DETAIL "A"	ANCHOR BLOCK DETAIL "B"
	CY	CY	LB	LB
"C2" 940+55.6 TO 940+65 Rt	1.79		295	
"C2" 942+55.75 TO 942+59.75 Lt		0.76		162
TOTAL		2.55		457

MICROSURFACING

LOCATION	TONS
"C2" 930+00 TO "C2" 942+59.75	171.5
"C2" 969+90.75 TO "C2" 973+75.65	52.4
"C3" 776+08.06 TO "C3" 783+10.00	95.54
"C3" 786+10.00 TO "C3" 791+40.00	72.14
TOTAL	391.58

NOTE "C2" 973+75.65 = "C3" 776+08.06

TEMPORARY RAILING (TYPE K)

STAGE	LOCATION	LENGTH
		LF
1	EB ROUTE 70 "C2" 941+34 TO 971+14	2,980
2	WB ROUTE 70 "C2" 941+34 TO 971+14	2,980
	TOTAL	5,960

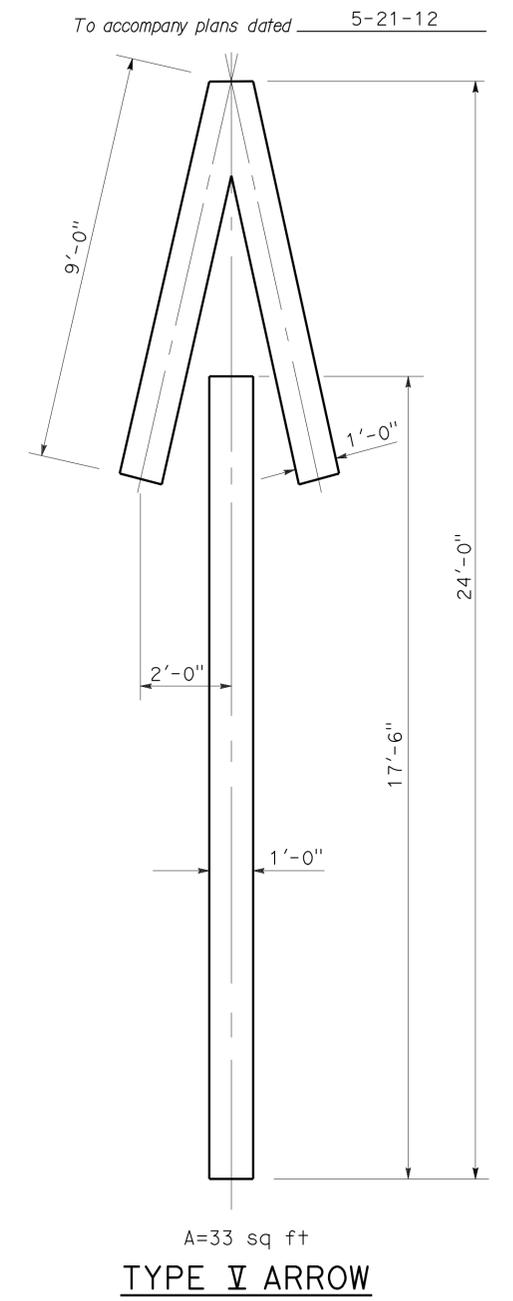
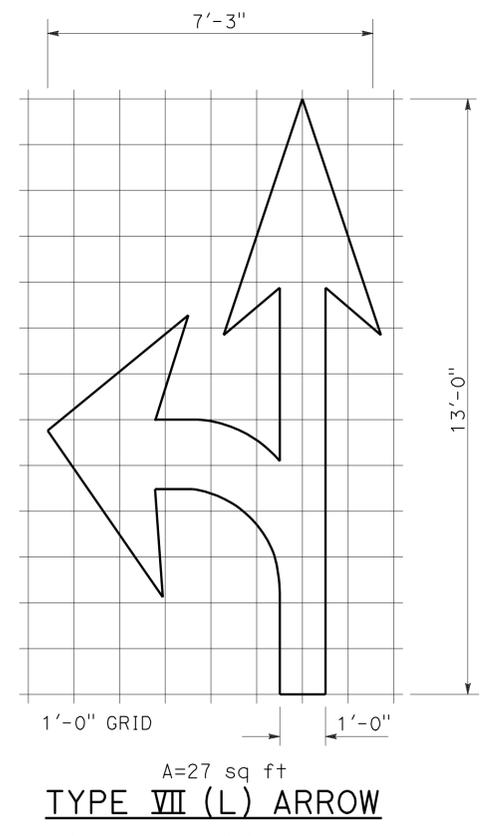
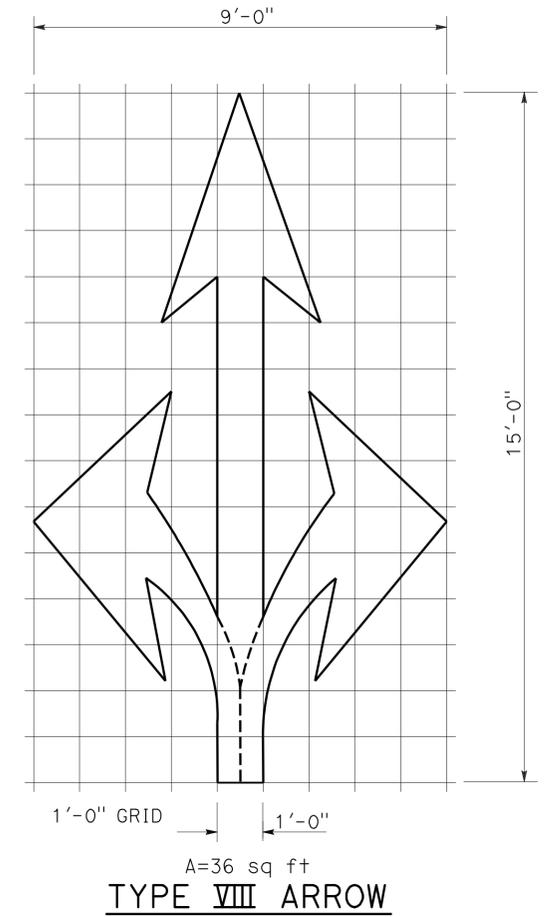
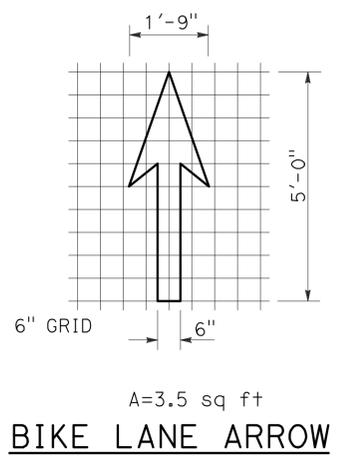
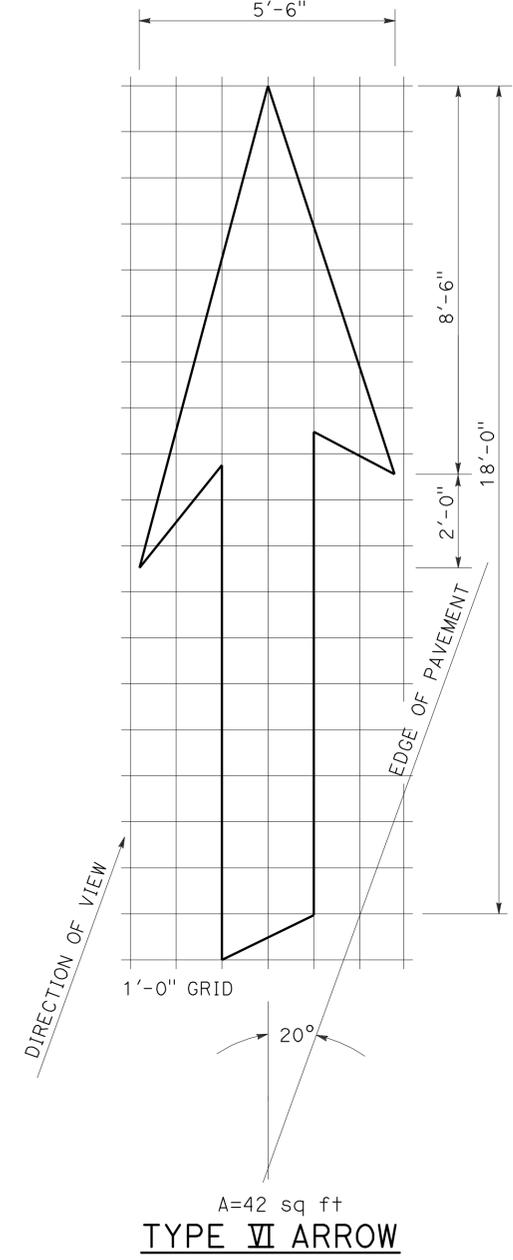
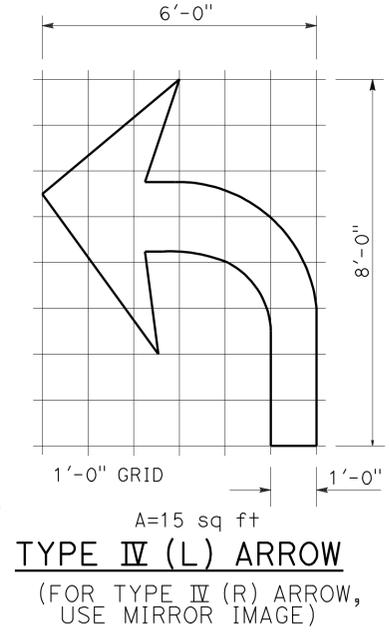
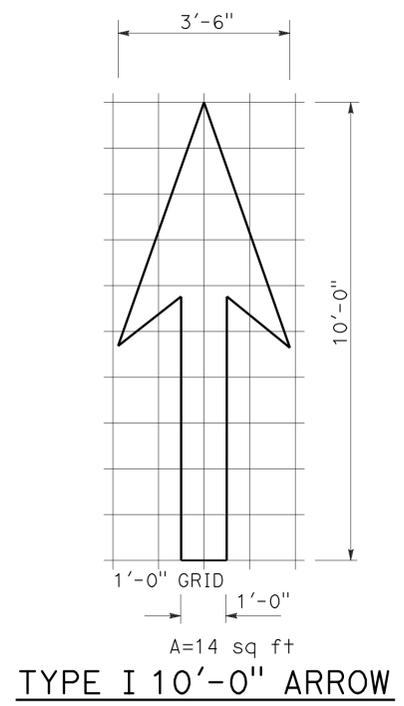
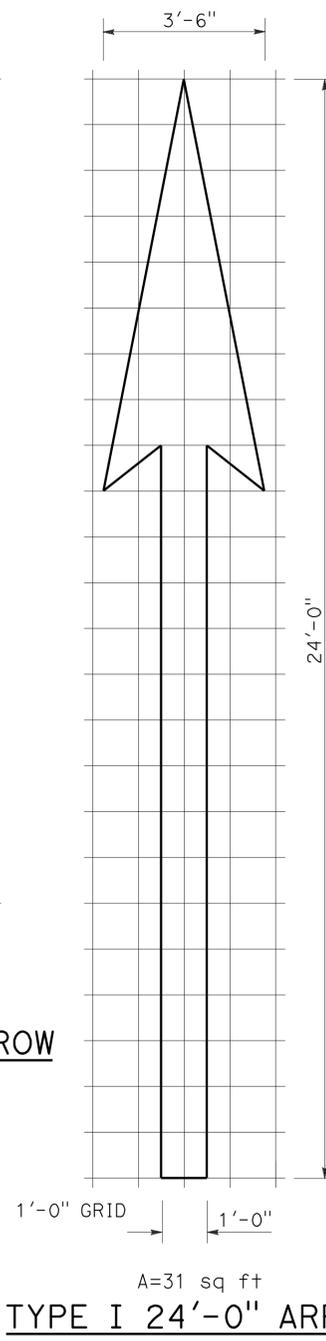
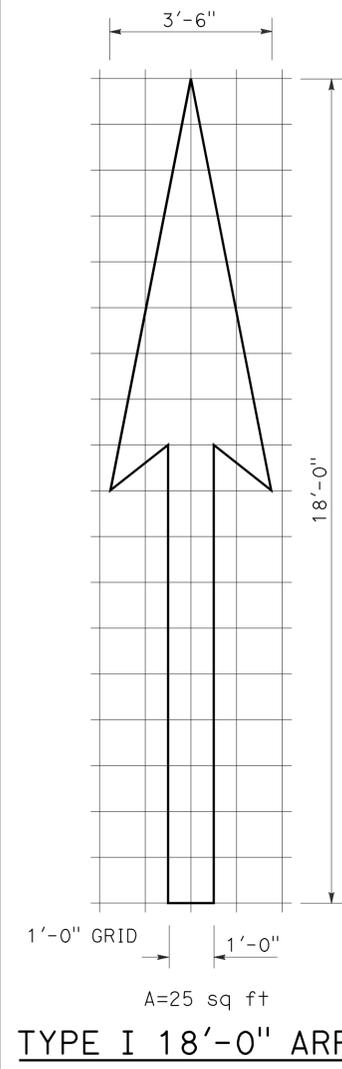
SUMMARY OF QUANTITIES

Q-1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But	70	28.0/29.2	21	95

Roberto L. McLaughlin
 REGISTERED CIVIL ENGINEER
 April 20, 2012
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Roberto L. McLaughlin
 No. C40375
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA



NOTE:
MINOR VARIATIONS IN DIMENSIONS
MAY BE ACCEPTED BY THE ENGINEER.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A
DATED MAY 1, 2006 - PAGE 9 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A24A

To accompany plans dated 5-21-12

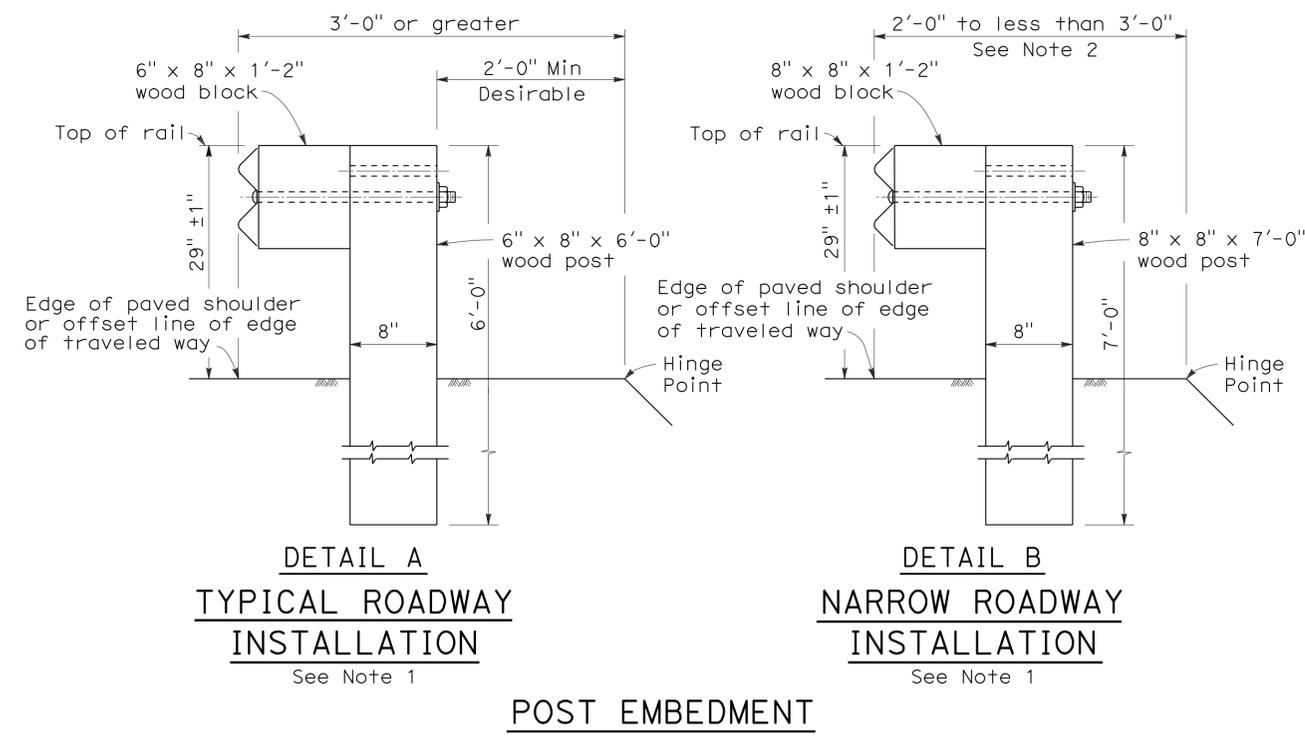
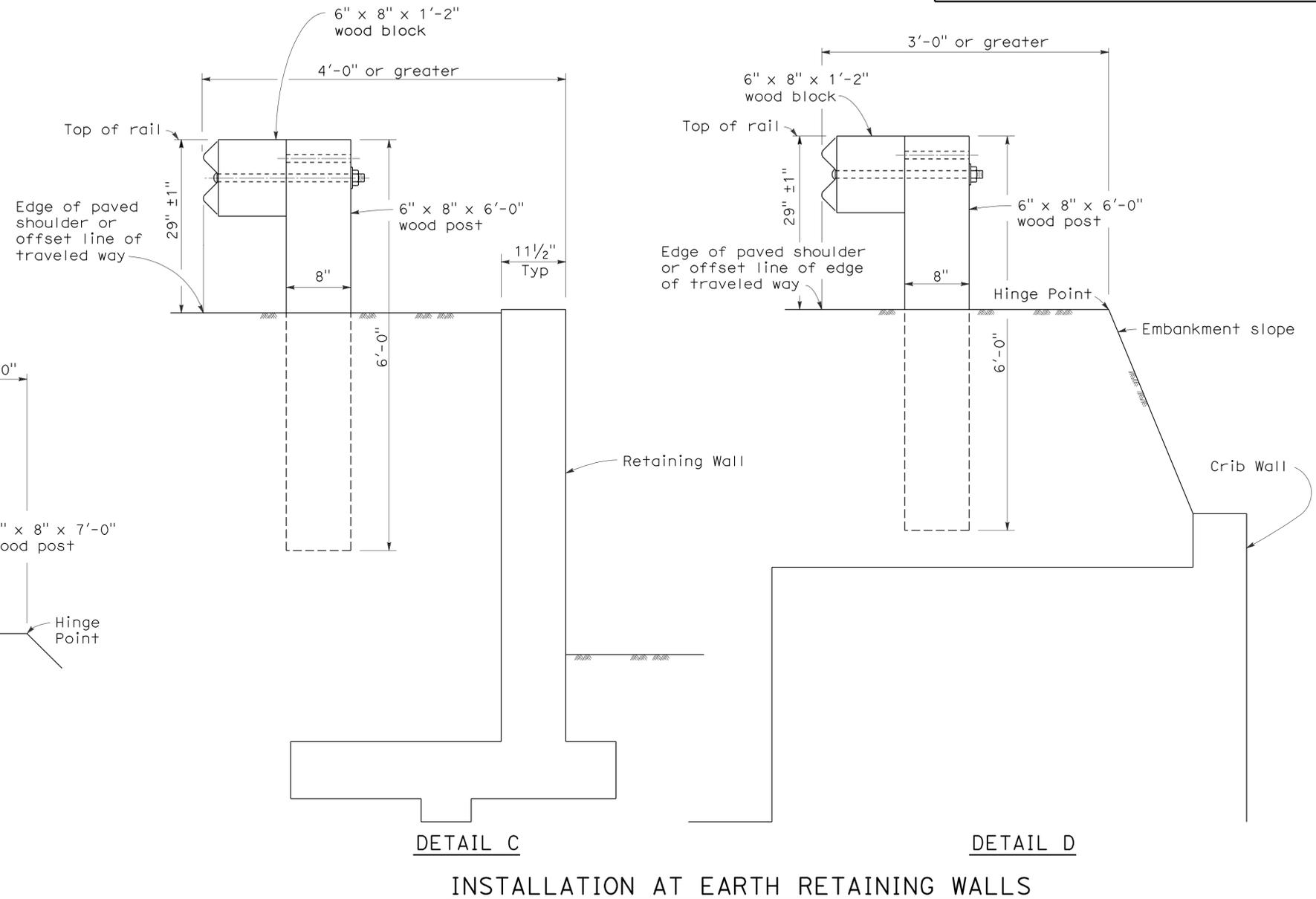
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	22	95

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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DETAIL C
INSTALLATION AT EARTH RETAINING WALLS

DETAIL D

NOTES:

1. These installation details also applicable to steel line post installations. For Detail A, C, and D, where steel line post installations are constructed, W6 x 9 steel post, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks are to be used in place of the size of wood post and wood block shown. For Detail B, where steel line post installations are constructed, W6 x 9 steel post, 7'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks are to be used in place of the size of wood post and wood block shown. For additional installation details, see Standard Plans A77A1 and A77A2.
2. Where the distance between the face of the rail and the hinge point is less than 2'-0", see the Project Plans for special details.
3. For dike positioning with guard railing installations, see Standard Plan A77C4.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL LINE POST
EMBEDMENT AND
HINGE POINT OFFSET DETAILS**

NO SCALE

RSP A77C3 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77C3
DATED MAY 1, 2006 - PAGE 46 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A77C3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But	70	28.0/29.2	23	95

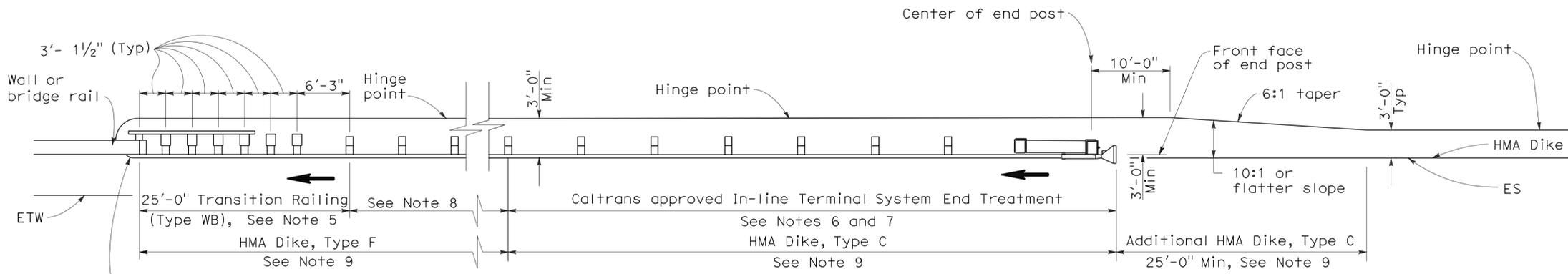
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

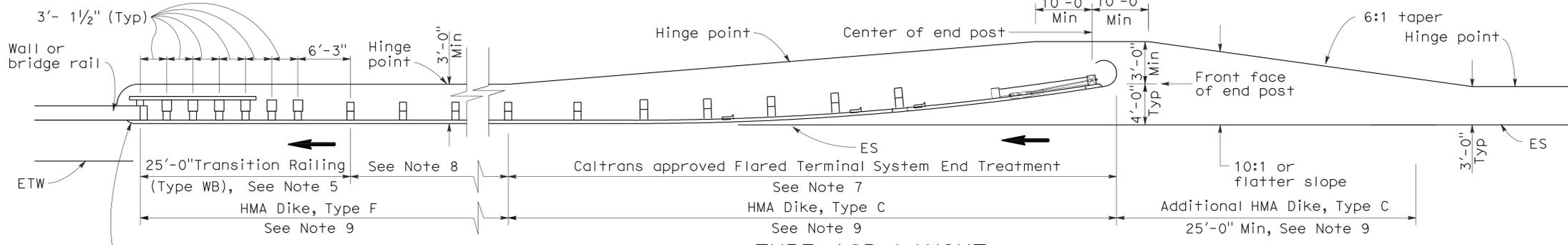
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To accompany plans dated 5-21-12



TYPE 12A LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE APPROACH WITH AN IN-LINE END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 10



TYPE 12B LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE APPROACH WITH A FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 10

NOTES:

- Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- Direction of adjacent traffic indicated by \rightarrow .
- For Transition Railing (Type WB) details for Types 12A and 12B Layouts, see Standard Plan A77J4.
- In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system end treatment to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes, or other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatment.

- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.
- Type 12A or Type 12B Layouts are typically used:
 - To the right of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
 - To the left of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
 - To the right of approaching traffic at the end of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.
 - To the right of approaching traffic at the end of the structure on multilane freeways or expressways with decked median on the bridge.
- See Revised Standard Plan RSP A77F3 for typical layout used left of approaching traffic at the ends of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.

- For additional details of typical connections to bridge rail, see Connection Detail AA on Revised Standard Plans RSP A77J1 and RSP A77J2 and Connection Detail FF on Standard Plans A77K1 and A77K2.
- For additional details of a typical connection to walls or abutments, see Standard Plan A77J3.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL LAYOUTS FOR
STRUCTURE APPROACH**

NO SCALE

RSP A77F1 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77F1
DATED MAY 1, 2006 - PAGE 54 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A77F1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	24	95

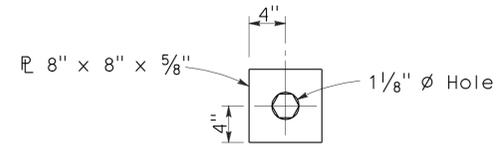
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

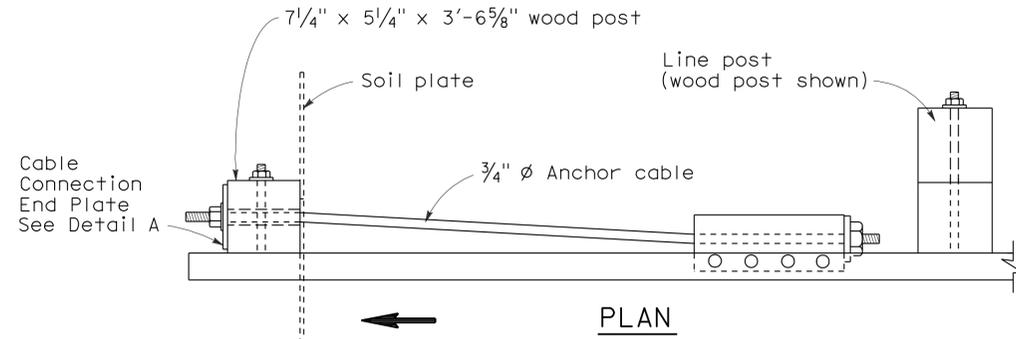
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

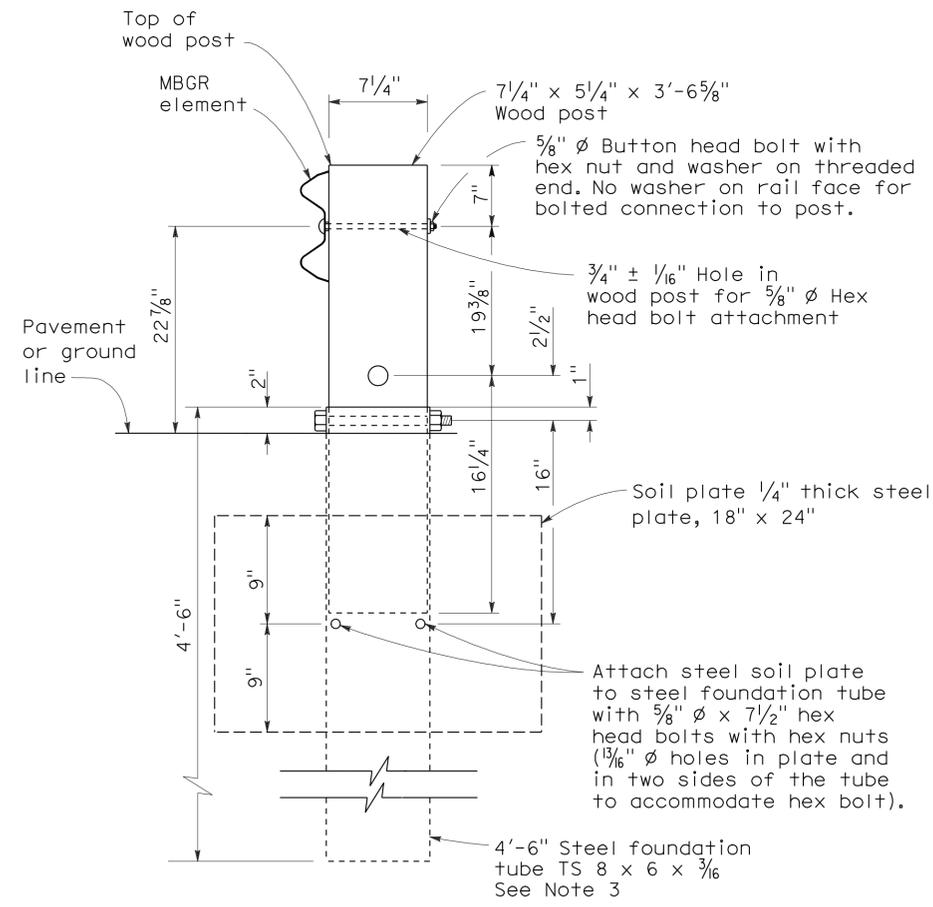
To accompany plans dated 5-21-12



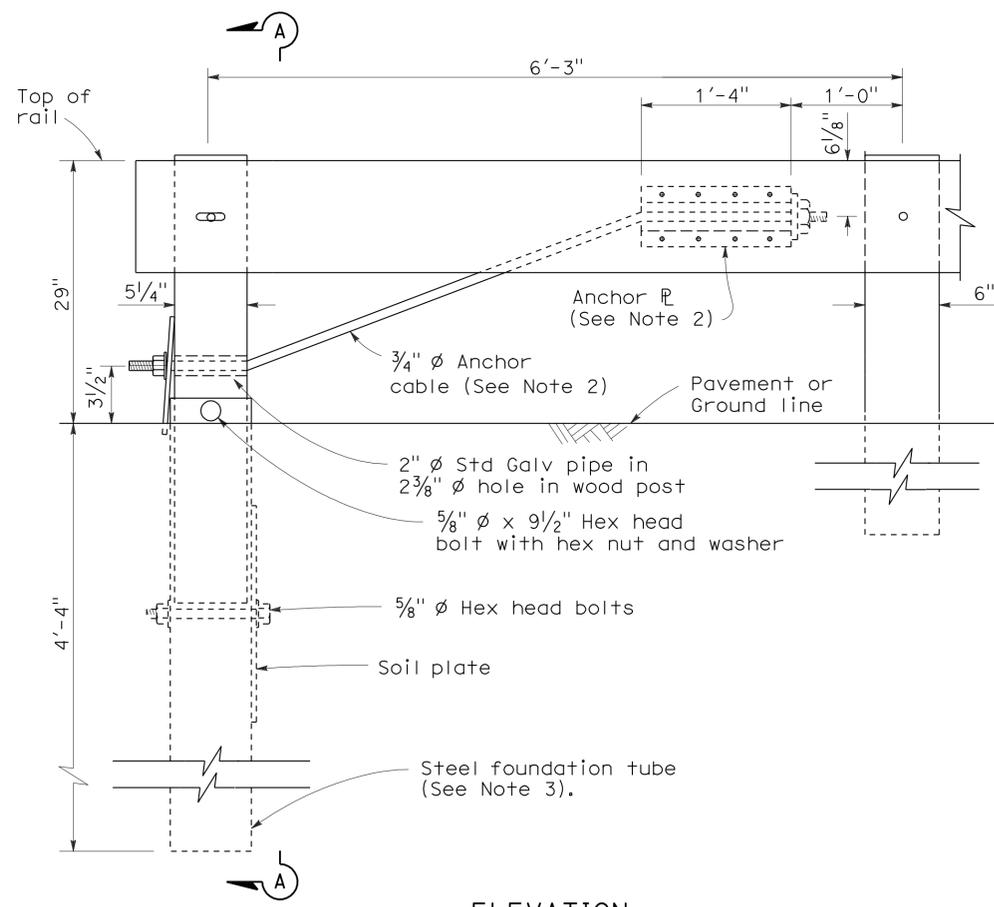
DETAIL A
CABLE CONNECTION
END PLATE



PLAN



SECTION A-A



ELEVATION
END ANCHOR
ASSEMBLY (TYPE SFT)
See Note 1

NOTES:

1. See the A77E, A77F and A77G series of Standard Plans for typical use of End Anchor Assembly (Type SFT).
2. For details of the anchor plate and 3/4" cable, see Standard Plan A77H3.
3. A 6'-0" length steel foundation tube, TS 8 x 6 x 3/16, without a soil plate, may be furnished and installed in place of the 4'-6" length steel foundation tube and soil plate shown. Minimum embedment of the 6'-0" length tube shall be 5'-9". A 5/8" diameter hex head bolt and nut shall be installed in the hole in the 6'-0" length tube to keep the wood post from dropping into the tube.
4. Direction of traffic indicated by →.
5. Install line post, steel foundation tube and soil plate in soil.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL RAILING
END ANCHOR ASSEMBLY
(TYPE SFT)

NO SCALE

RSP A77H1 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77H1
DATED MAY 1, 2006 - PAGE 67 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77H1

2006 REVISED STANDARD PLAN RSP A77H1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	25	95

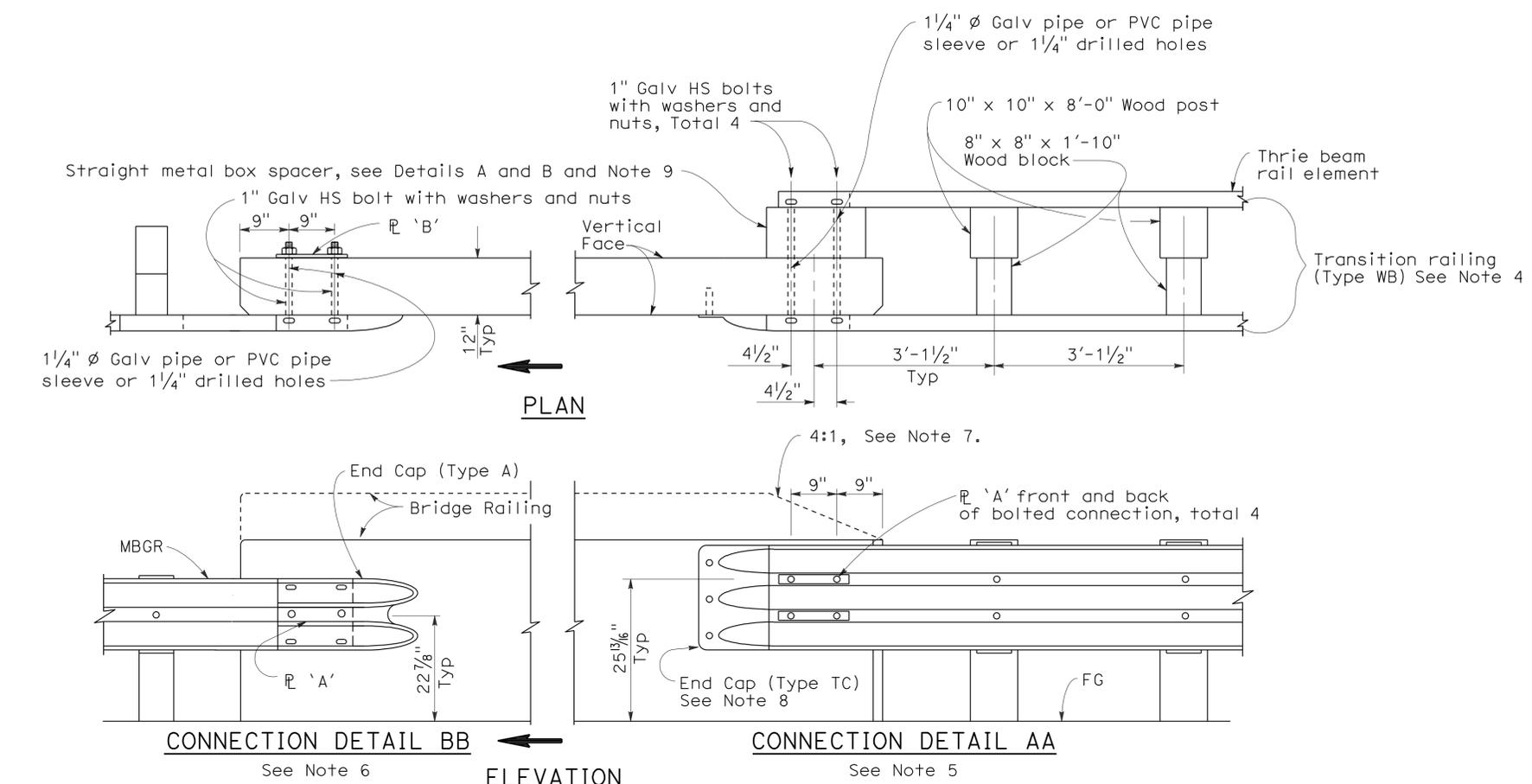
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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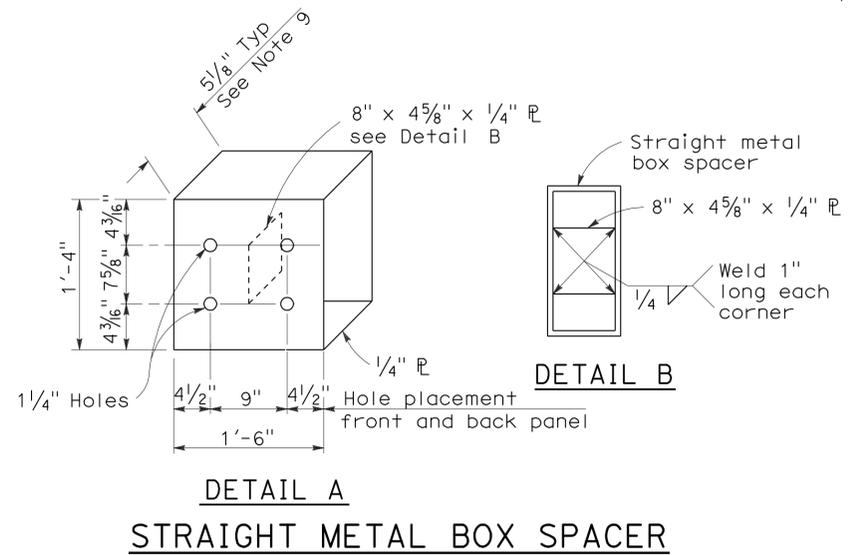
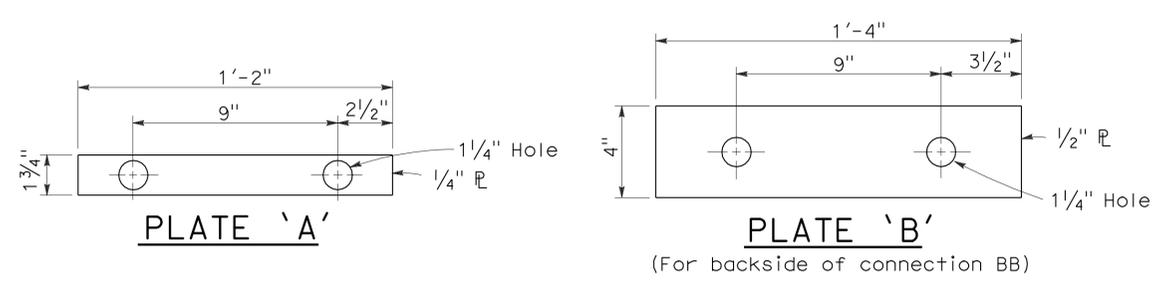
To accompany plans dated 5-21-12



GUARD RAILING CONNECTION TO BRIDGE RAILING WITHOUT SIDEWALK

NOTES:

1. See Revised Standard Plan RSP A77J2 for additional connection details to bridges without sidewalks.
2. Additional details of posts, blocks and hardware are shown on Standard Plan A77B1, A77C1 and A77C2.
3. Direction of adjacent traffic indicated by \rightarrow .
4. For additional details of Transition Railing (Type WB), see Standard Plan A77J4. Transition Railing (Type WB) transitions the 12 gage w-beam standard railing section of guard railing to a heavier gage nested thrie beam railing section which is connected to the concrete bridge railing.
5. For typical use of Connection Detail AA, see Layout Types 12A and 12B on Revised Standard Plan RSP A77F1, Layout Types 12C and 12D on Standard Plan A77F2, and Layout Type 12E on Revised Standard Plan RSP A77F3.
6. For typical use of Connection Detail BB, see Layout Type 12D (structure departure railing connection) on Standard Plan A77F2 and Layout Type 12DD on Standard Plan A77F5.
7. Where the height of the bridge railing exceeds the height of the thrie beam railing by more than 1" at Connection Detail AA, taper the top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam rail.
8. For details of End Cap (Type TC), see Standard Plan A77J4.
9. See Standard Plan A77J4 for additional details regarding depth dimension for straight metal box spacer.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS DETAILS No.1

NO SCALE

RSP A77J1 DATED MAY 20, 2011 SUPERSEDES RSP A77J1 DATED JUNE 6, 2008 AND STANDARD PLAN A77J1 DATED MAY 1, 2006 - PAGE 72 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A77J1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	26	95

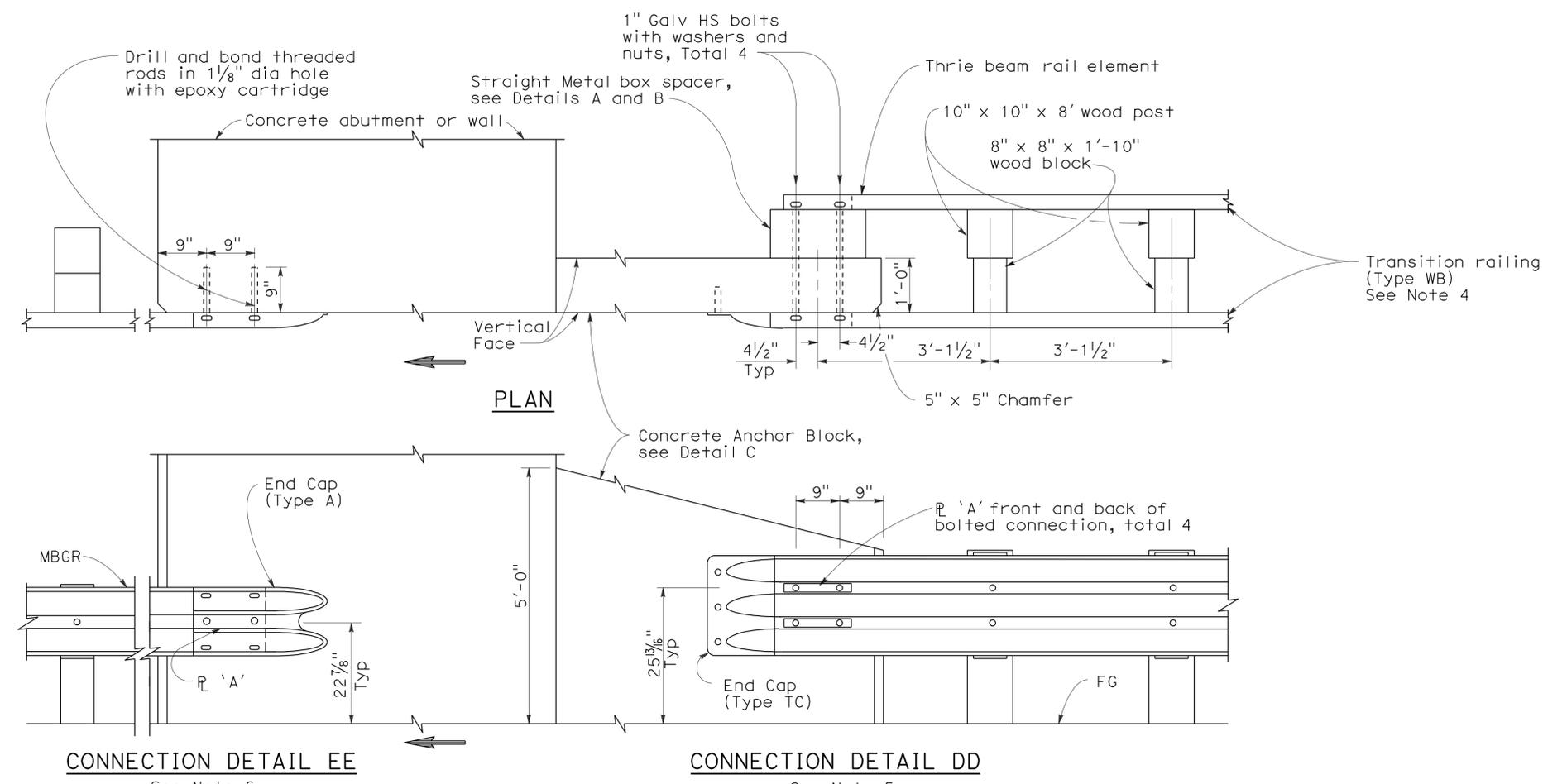
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 5-21-12

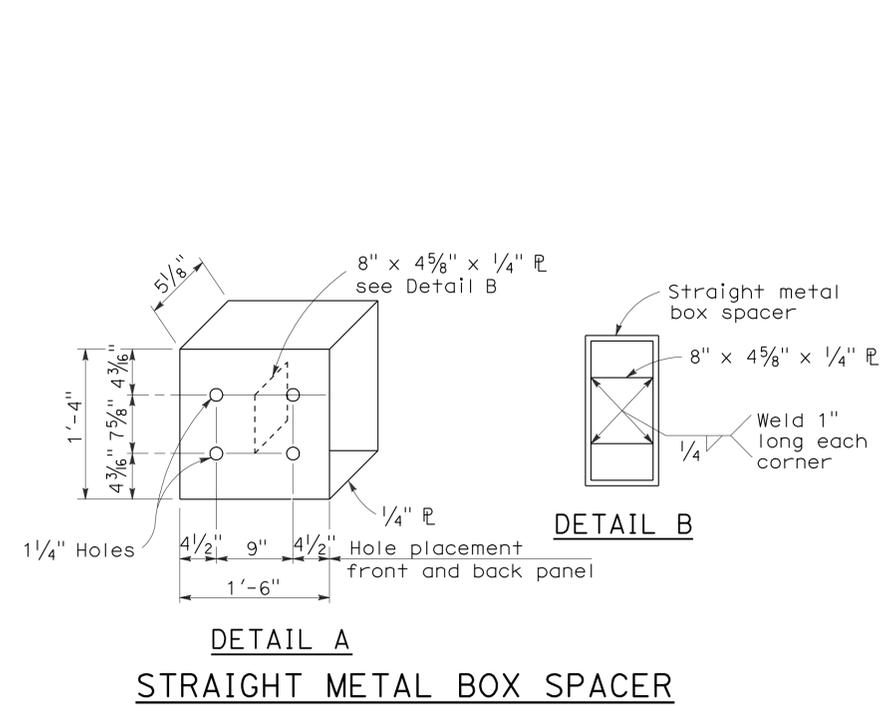


NOTES:

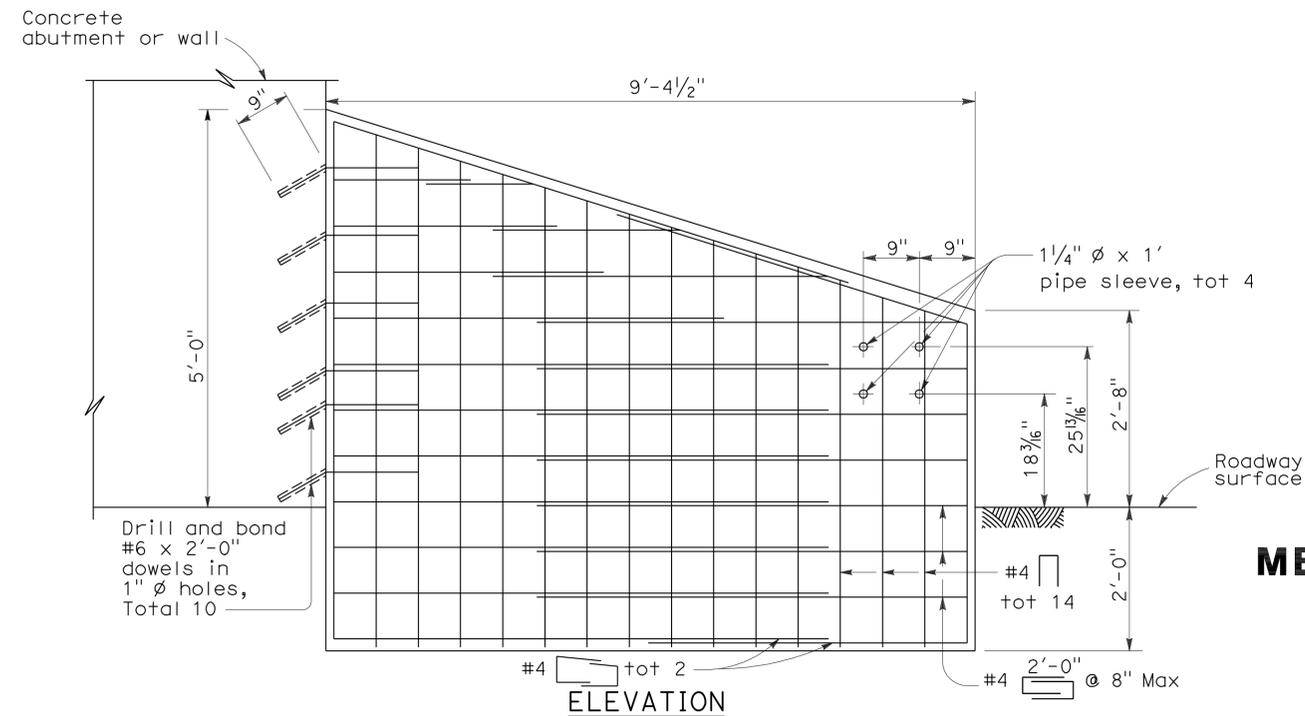
1. These connection details apply to abutments and walls.
2. Additional details of posts, blocks and hardware are shown on Standard Plans A77B1, A77C1 and A77C2.
3. Direction of adjacent traffic indicated by \rightarrow .
4. For additional details of Transition Railing (Type WB), see Standard Plan A77J4 Transition Railing (Type WB) transitions the 12 gage w-beam standard railing section of guard railing to a heavier gage nested thrie beam railing section which is connected to the concrete anchor block.
5. For typical use of Connection Details DD, See Layout Types 12A and 12B on Standard Plan A77F1 and Layout Types 12C and 12D on Standard Plan A77F2.
6. For typical use of Connection Detail EE, see Layout Type 12D on Standard Plan A77F2 and Layout Type 12DD on Standard Plan A77F5.

CONNECTION DETAIL EE See Note 6
CONNECTION DETAIL DD See Note 5

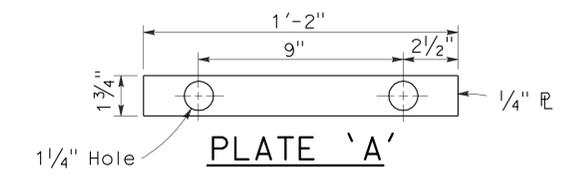
GUARD RAILING CONNECTION TO ABUTMENT OR WALL



STRAIGHT METAL BOX SPACER



ANCHOR BLOCK FOR TRANSITION RAILING CONNECTION



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING CONNECTIONS TO ABUTMENTS AND WALLS

NO SCALE

RSP A77J3 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77J3 DATED MAY 1, 2006 - PAGE 74 OF THE STANDARD PLANS BOOK DATED MAY 2006.

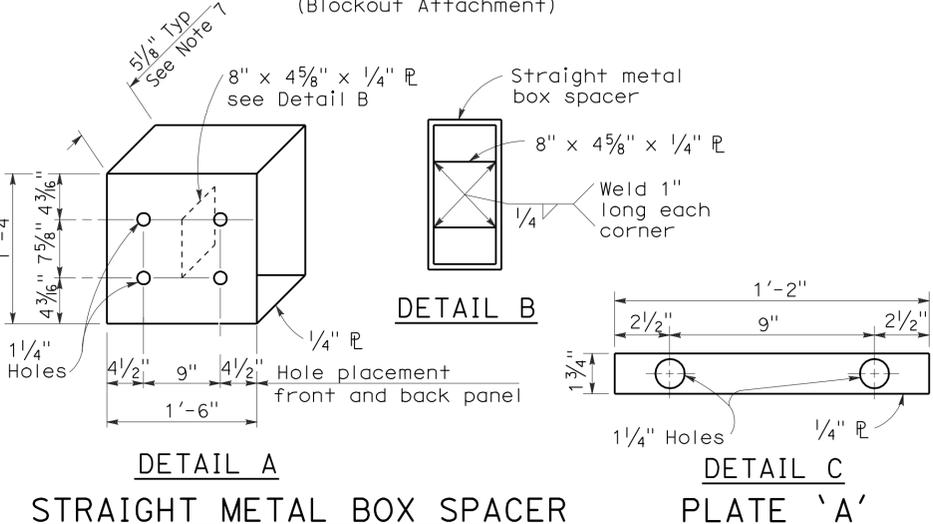
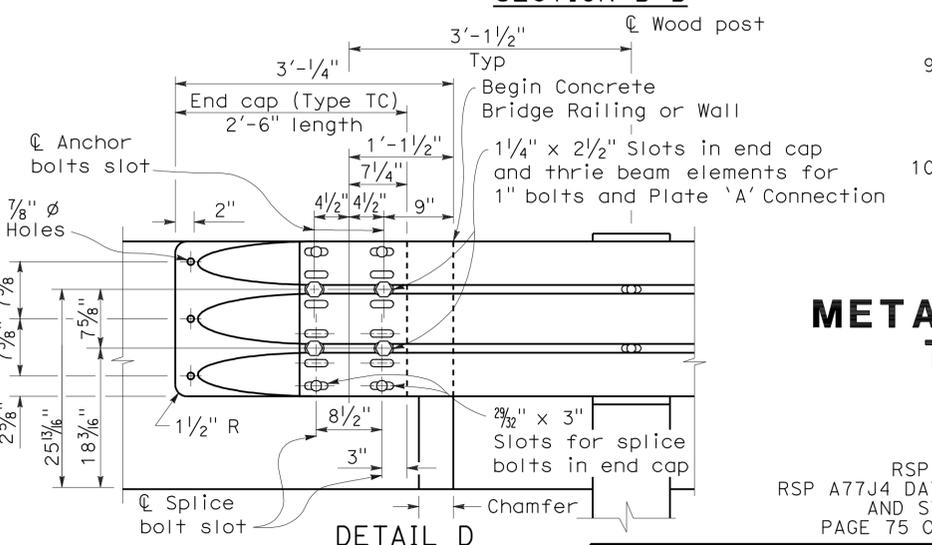
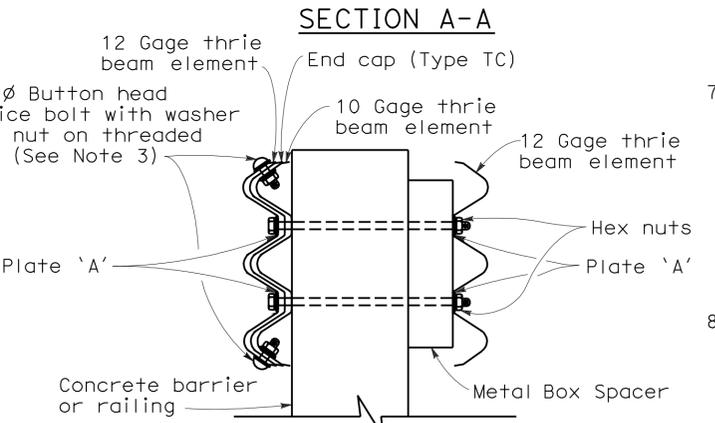
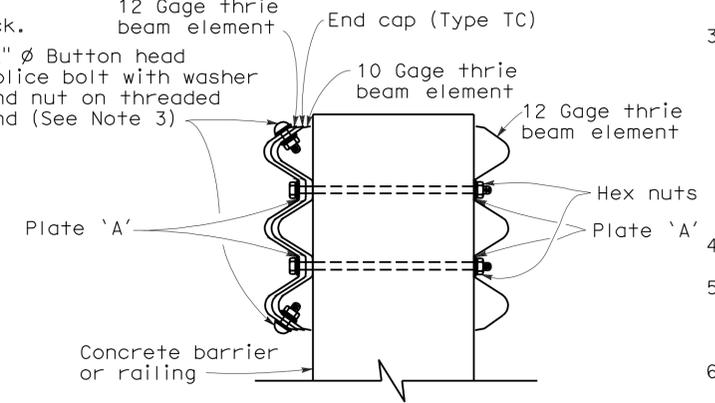
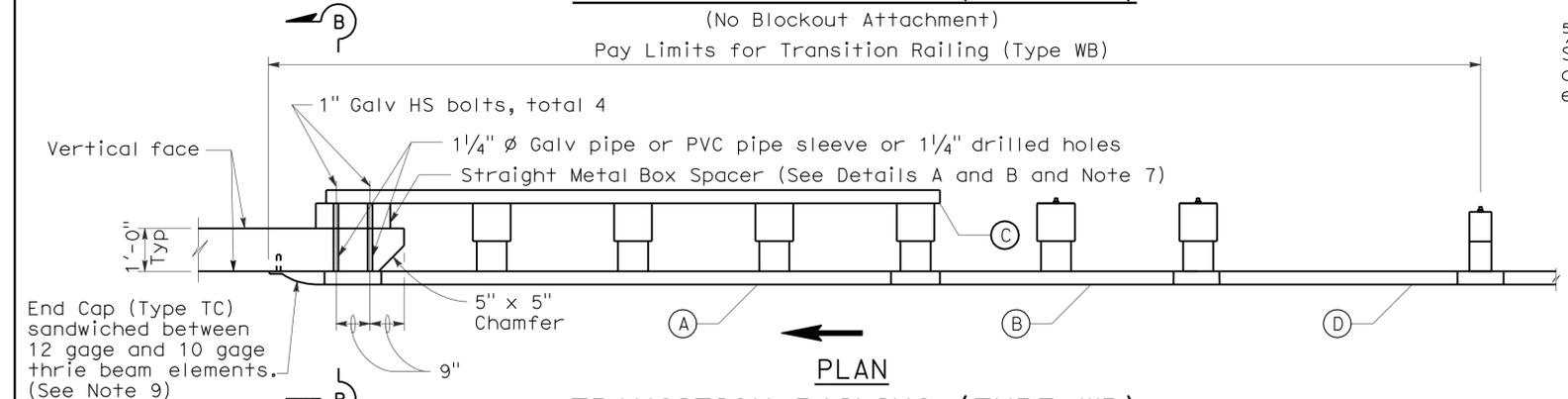
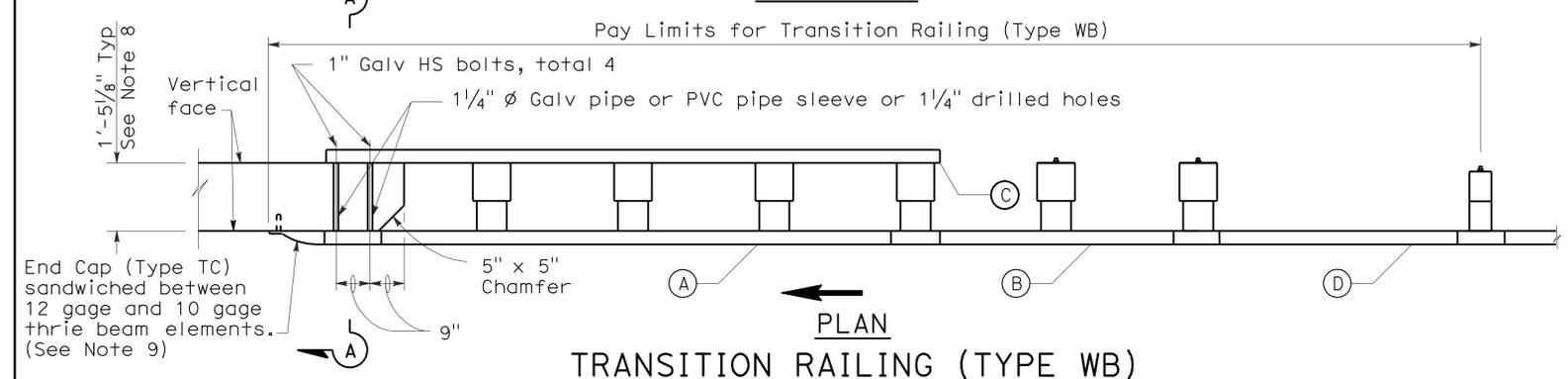
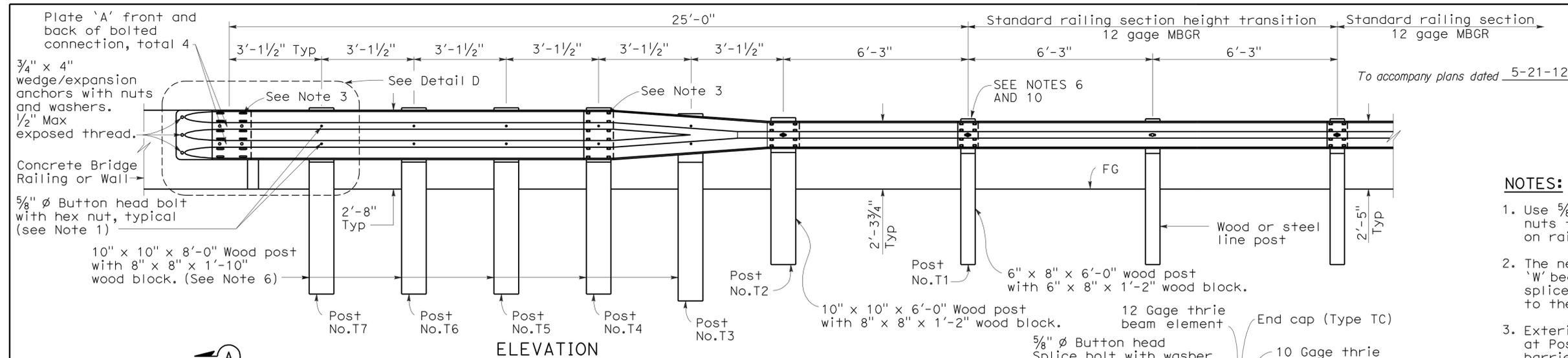
REVISED STANDARD PLAN RSP A77J3

2006 REVISED STANDARD PLAN RSP A77J3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	27	95

Randell D. Hiatt
 REGISTERED CIVIL ENGINEER
 No. C50200
 Exp. 6-30-11
 STATE OF CALIFORNIA

May 20, 2011
 PLANS APPROVAL DATE
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- LEGEND**
- (A) Nested thrie beam elements (one 12 gage element nested over one 10 gage element).
 - (B) One 10 gage "W" beam to thrie beam element.
 - (C) One 12 gage thrie beam element.
 - (D) One 10 gage "W" beam rail element (7'-3 1/2" length)
- 10 gage = 0.135" thick
12 gage = 0.108" thick

- NOTES:**
- Use 5/8" Ø Button head bolts and hex nuts for connections to posts. No washer on rail face for bolted connections to post.
 - The nested rail elements, end cap, and "W" beam to thrie beam element may be spliced together prior to bolting the elements to the wood post and concrete barrier or railing.
 - Exterior splice bolt holes for rail element splices at Post No. T4 and the connection to the concrete barrier or railing shall be the standard 7/32" x 1/8" slot size. Interior splice bolt holes at these locations may be increased up to 1/4" Ø. Only the top 2 and the bottom 2 splice bolts with washers and nuts are required for rail splices at Post No. T4 and the connection to the concrete barrier or railing.
 - Direction of adjacent traffic indicated by →.
 - The top elevation of Posts No. T2 through No. T7 shall not project more than 1" above the top elevation of the rail element.
 - Typically, the railing connected to Transition Railing (Type WB) will be either standard railing section of metal beam guard railing with height transition ratio of 120:1 or an approved Caltrans end treatment attached to Post No. T1.
 - The depth of the metal box spacer varies from the 5/8" to 1 1/2" and is dependent on the width of the concrete railing or wall. The combined dimension for the depth of the metal box spacer plus the width of railing or wall is typically 17 1/8". Where the space between the backside of the concrete railing or wall and the rear thrie beam element is less than 1 1/2", metal plates similar to Plate 'A' are to be used as spacers.
 - Where the width of the concrete railing or wall is greater than 17 1/8", wood blocks are to be used to fill the space created between the backside of Posts No. T4 through No. T7 and the rear thrie beam element. These wood blocks shall be 8" in width and 1'-2" in length. The dimension between the front thrie beam element and the rear thrie beam element is to match the width of the concrete railing or wall.
 - End cap may be installed over 12 gage and 10 gage thrie beam elements where transition railing is installed on the departure end of bridge railing.
 - Conform standard railing section height to 2'-3 3/4" at Post No. T1 using height transition ratio of 120:1.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**METAL BEAM GUARD RAILING
 TRANSITION RAILING
 (TYPE WB)**
 NO SCALE
 RSP A77J4 DATED MAY 20, 2011 SUPERSEDES
 RSP A77J4 DATED JUNE 5, 2009, RSP A77J4 DATED JUNE 6, 2008
 AND STANDARD PLAN A77J4 DATED MAY 1, 2006 -
 PAGE 75 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A77J4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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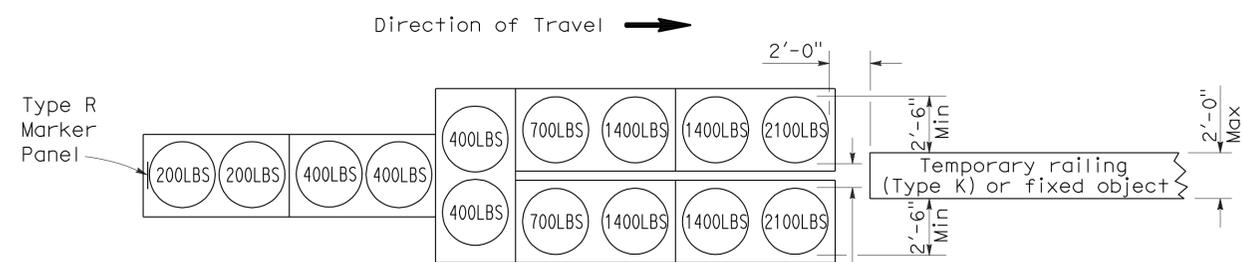
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

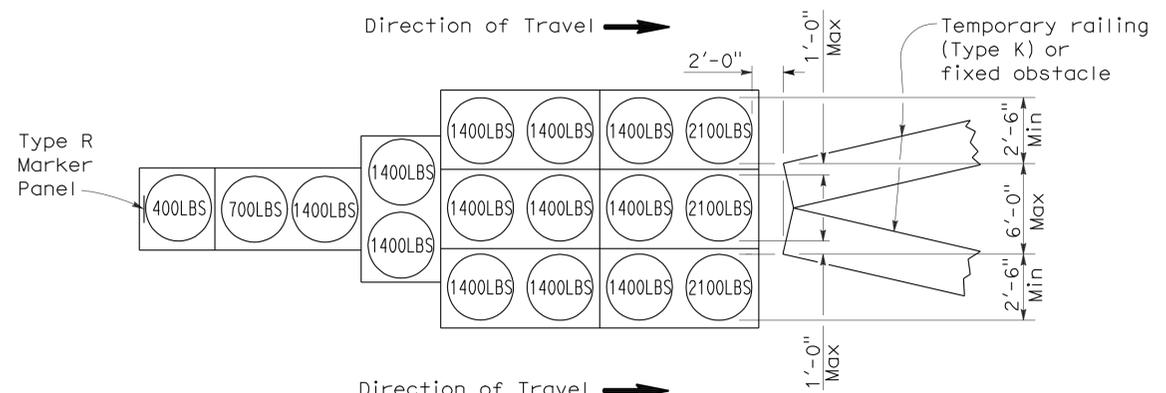
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 5-21-12



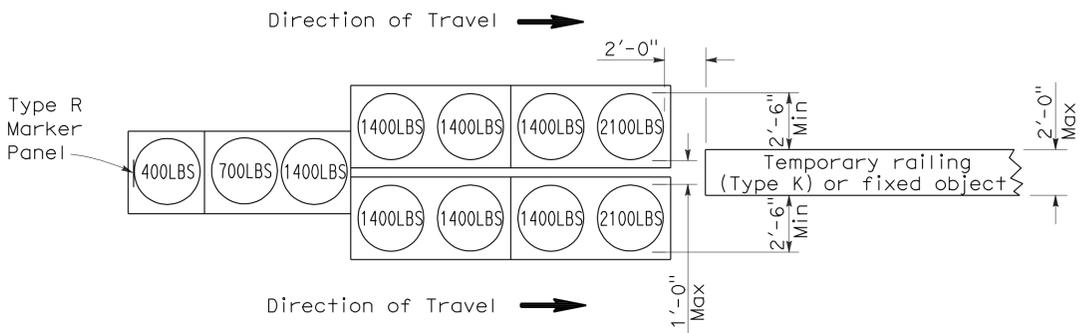
ARRAY 'TU14'

Approach speed 45 mph or more



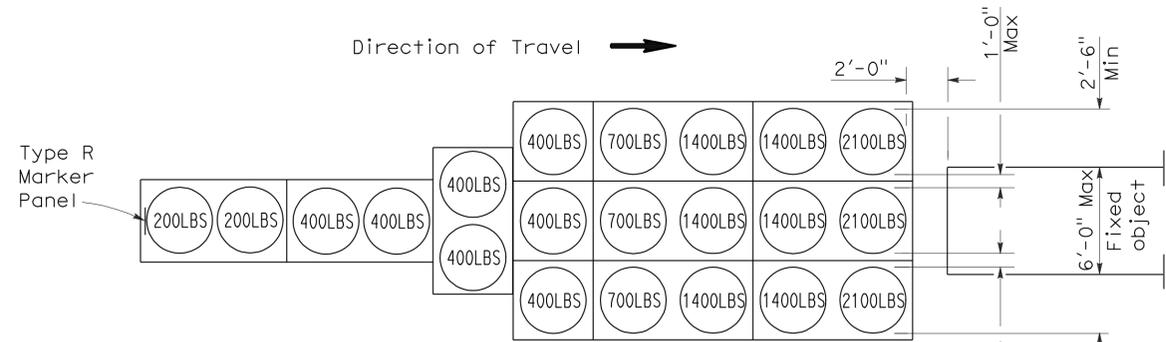
ARRAY 'TU17'

Approach speed less than 45 mph



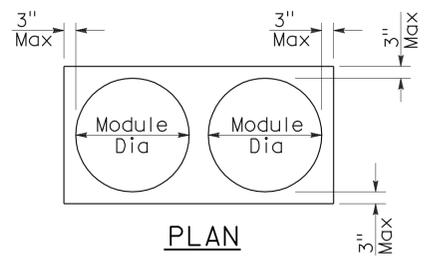
ARRAY 'TU11'

Approach speed less than 45 mph

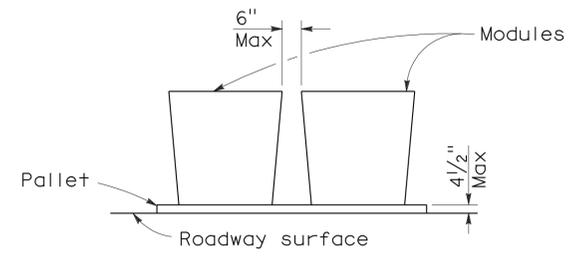


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

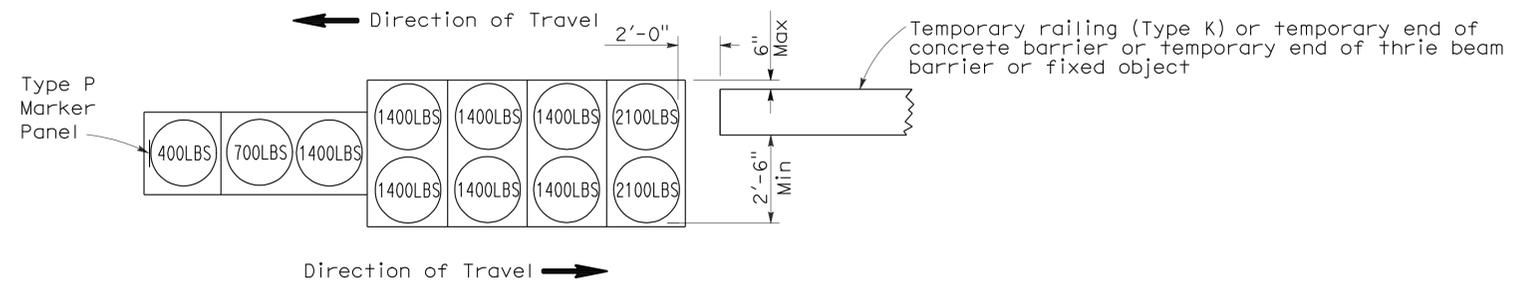
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But	70	28.0/29.2	29	95

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

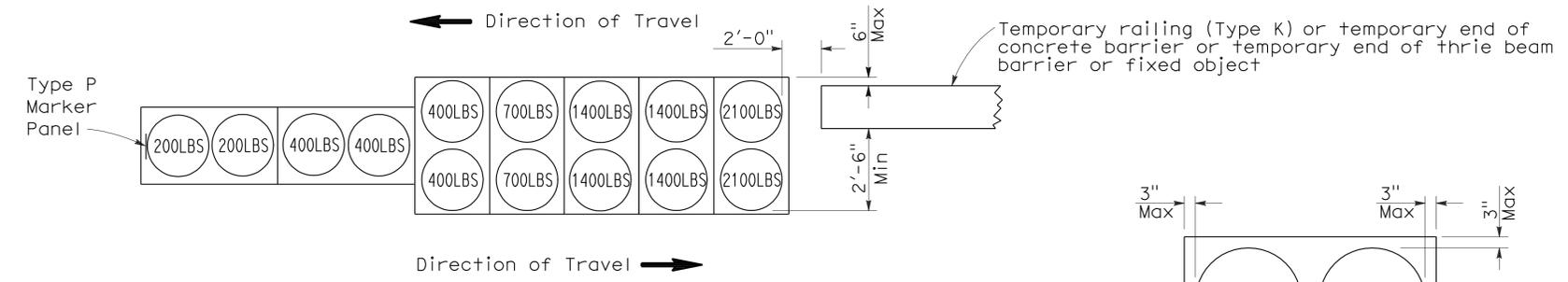
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To accompany plans dated 5-21-12



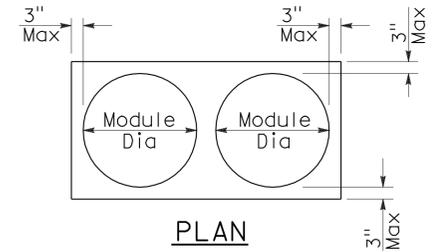
ARRAY 'TB11'

Approach speed less than 45 mph

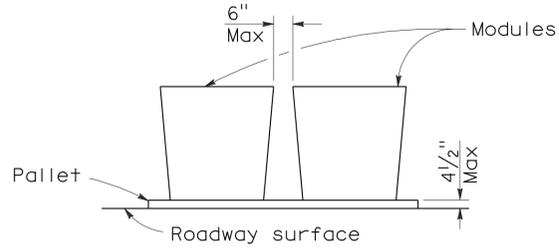


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But	70	28.0/29.2	30	95

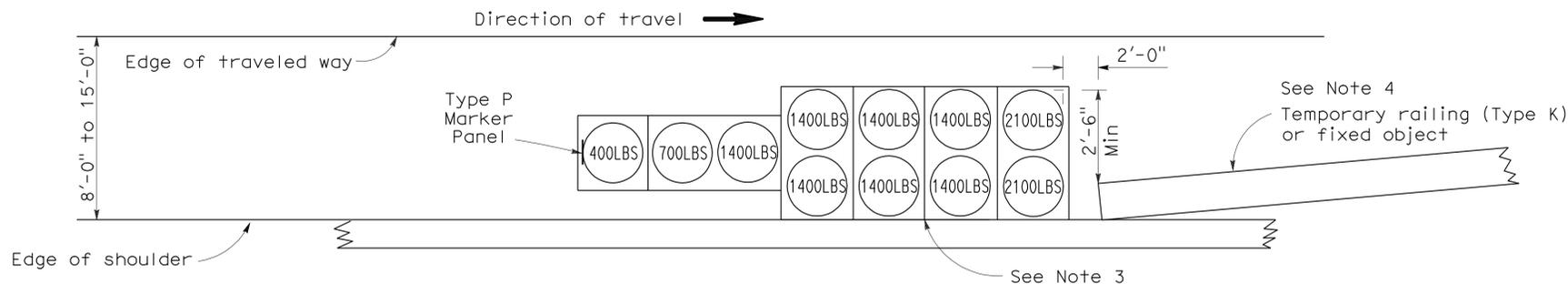
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

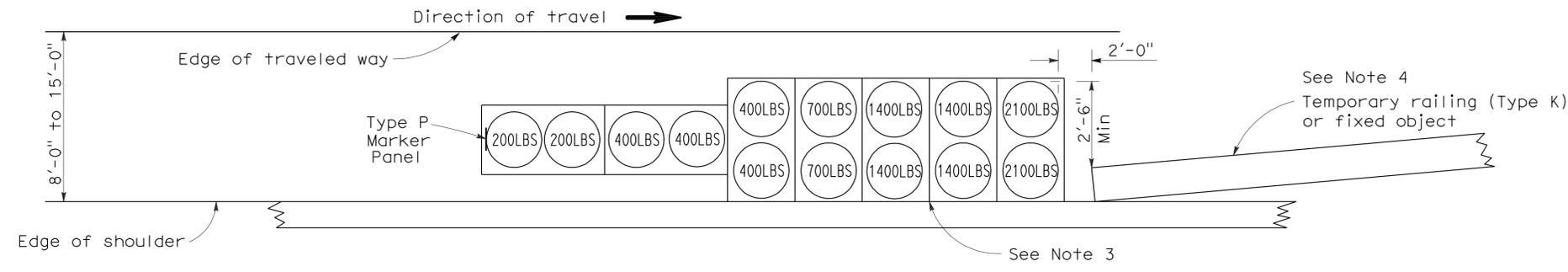
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

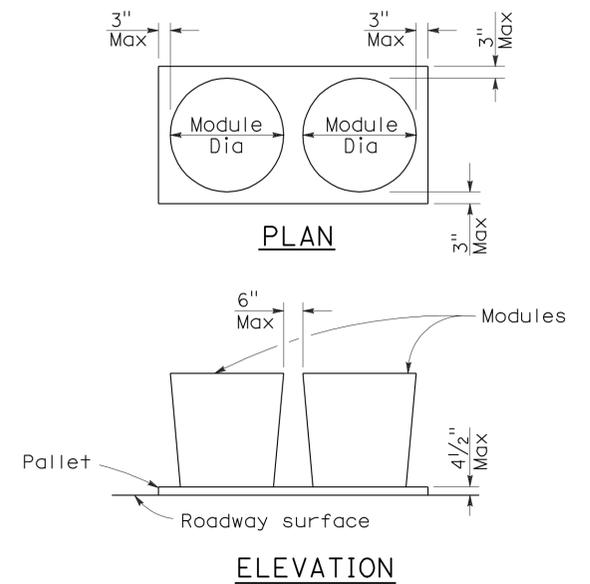
To accompany plans dated 5-21-12



ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

- ⊙(XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

NO SCALE
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

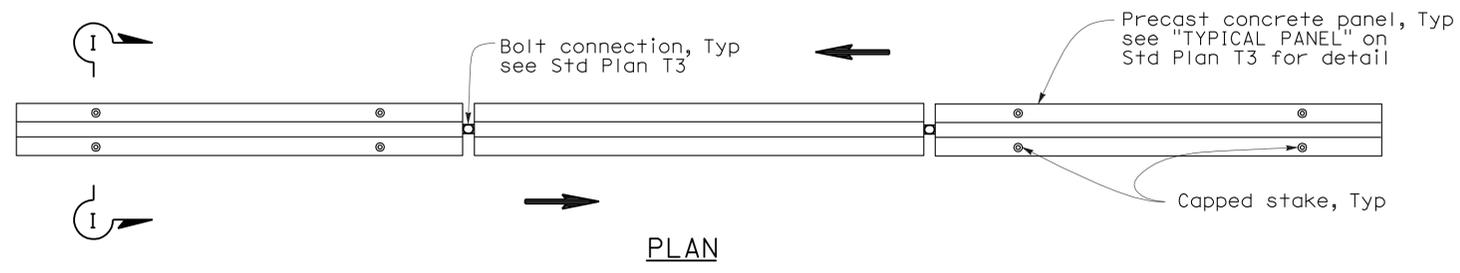
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	70	28.0/29.2	31	95

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

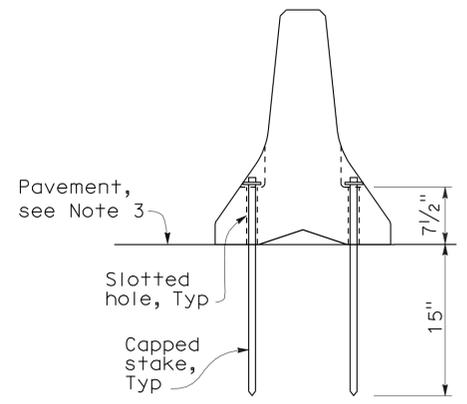
May 20, 2011
PLANS APPROVAL DATE

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To accompany plans dated 5-21-12

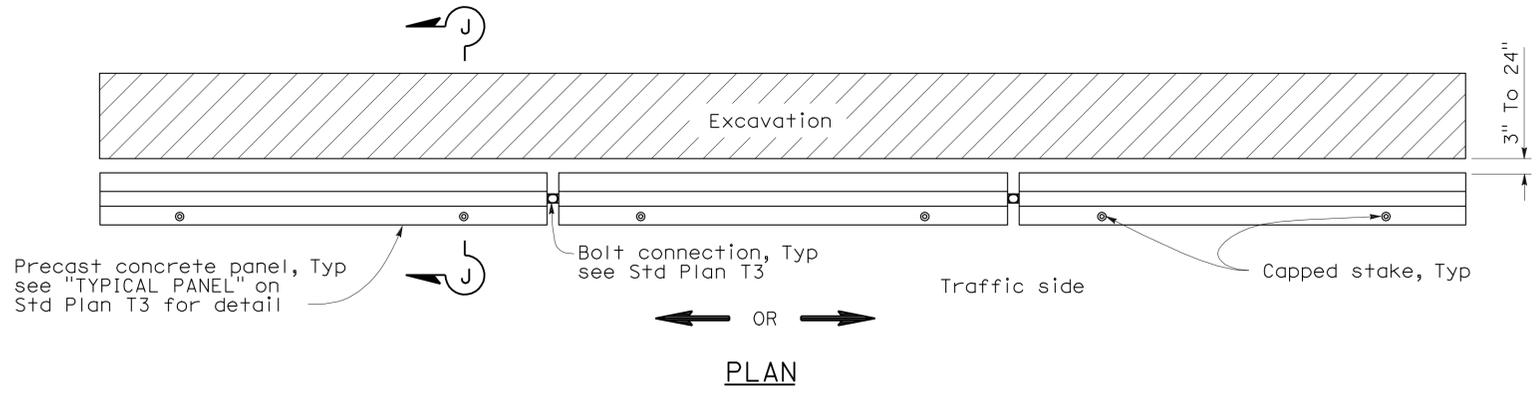


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

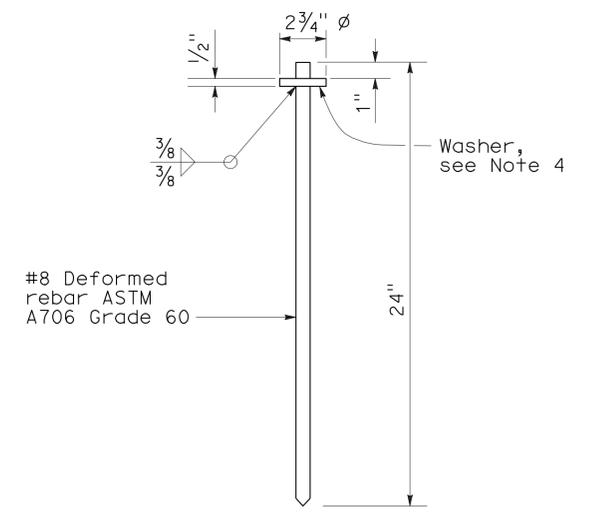
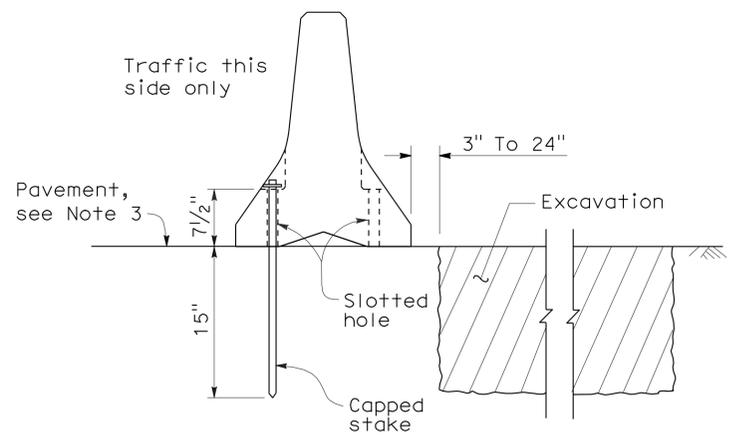


NOTES:

1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by \Rightarrow .



RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION
See Note 2



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY RAILING
(TYPE K)**

NO SCALE

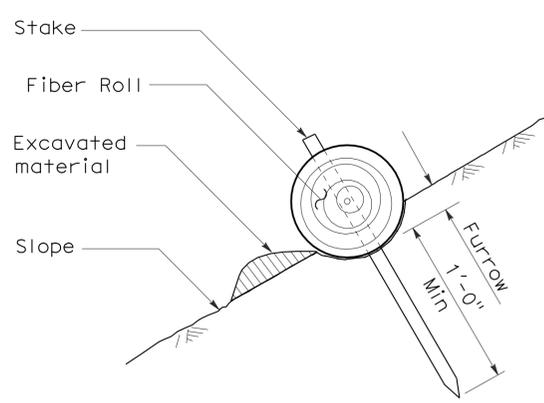
NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T3A

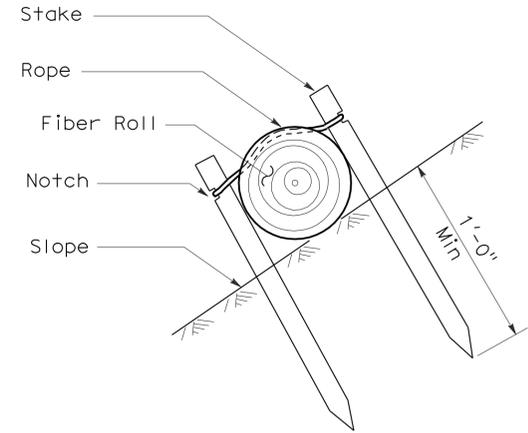
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But	70	28.0/29.2	33	95

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 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.

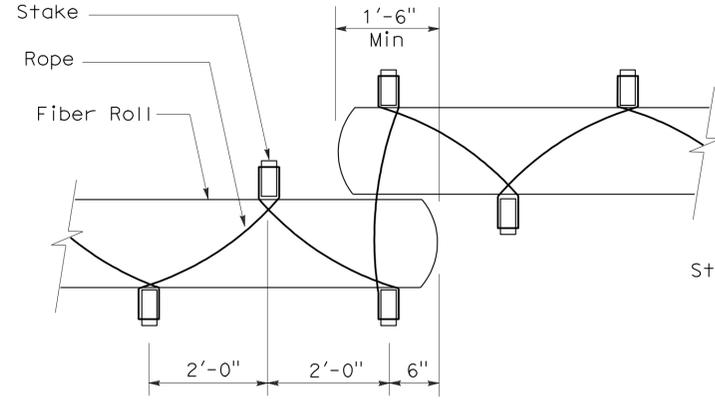
To accompany plans dated 5-21-12



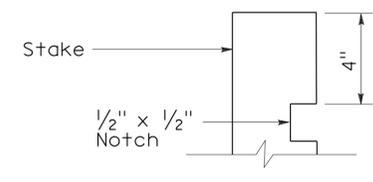
SECTION
TEMPORARY FIBER ROLL
(TYPE 1)



SECTION
TEMPORARY FIBER ROLL
(TYPE 2)

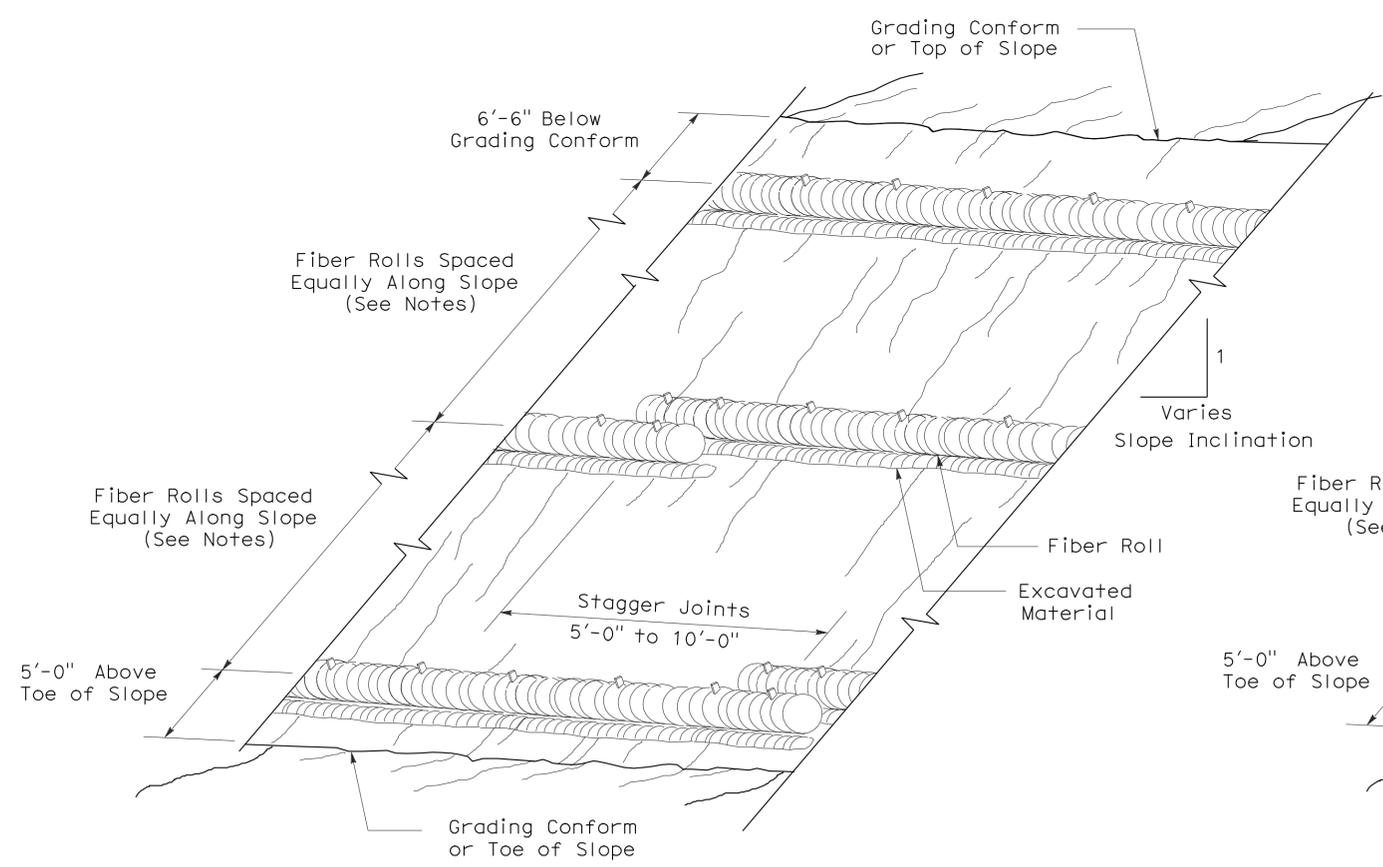


PLAN

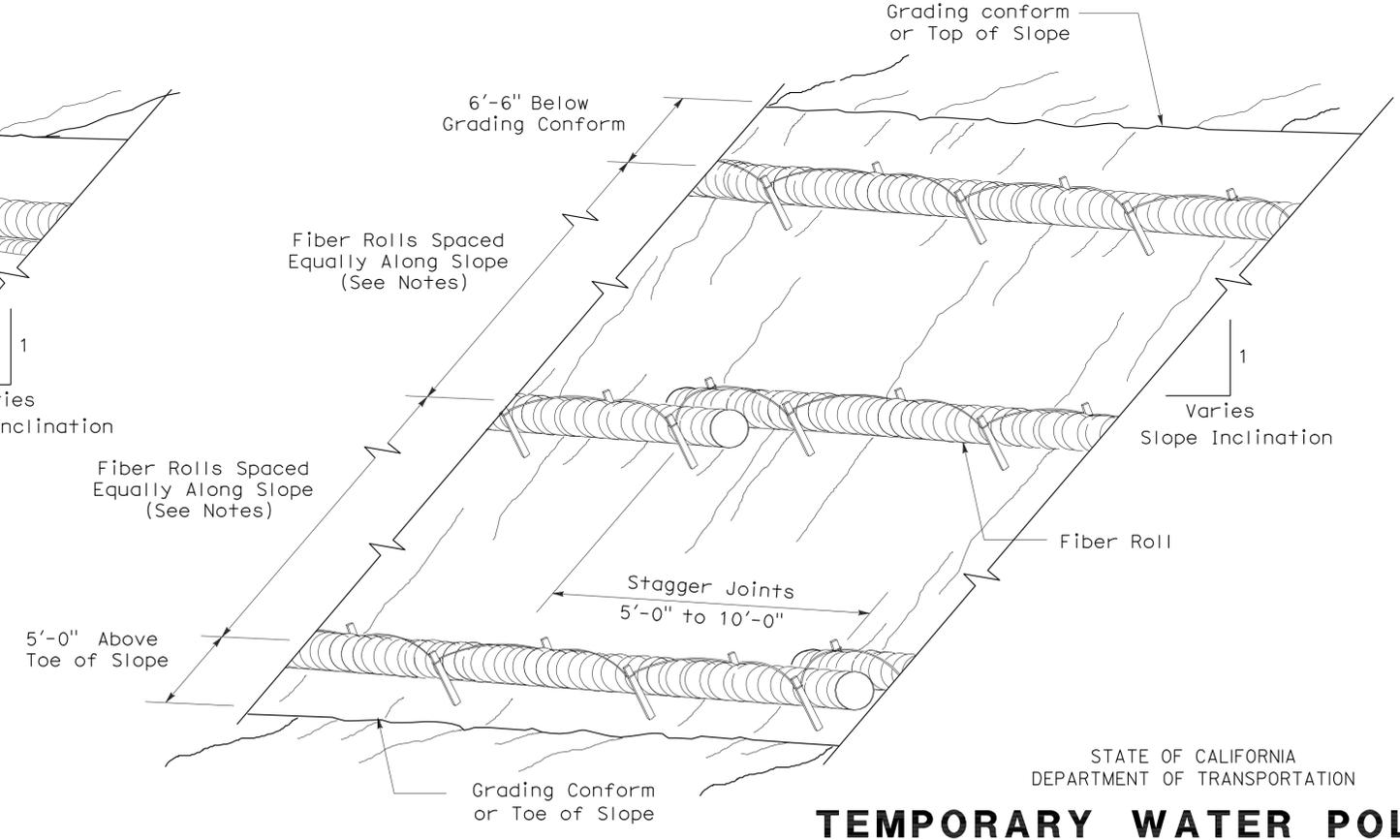


ELEVATION
STAKE NOTCH DETAIL

- NOTES:**
1. Temporary fiber roll spacing varies depending upon slope inclination.
 2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS
(TEMPORARY FIBER ROLL)

NO SCALE

RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T56

2006 REVISED STANDARD PLAN RSP T56

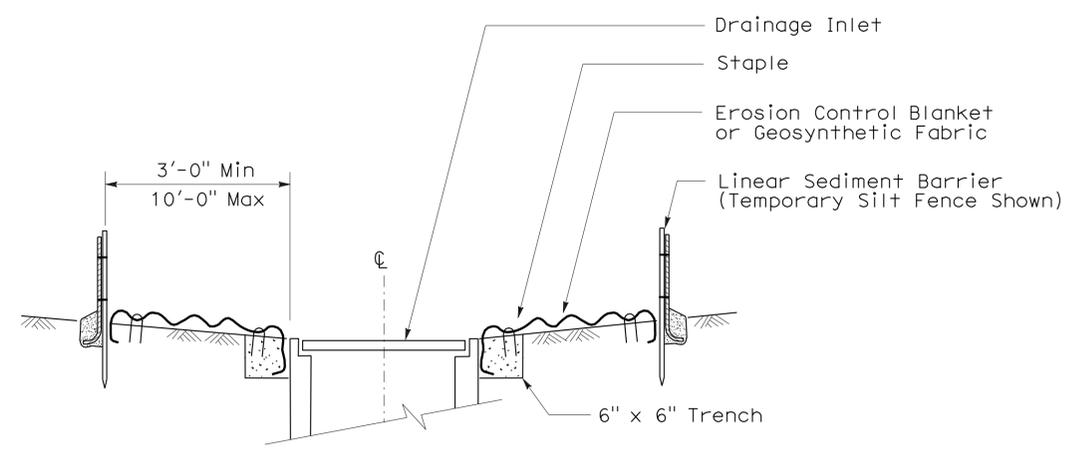
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But	70	28.0/29.2	34	95

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 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.

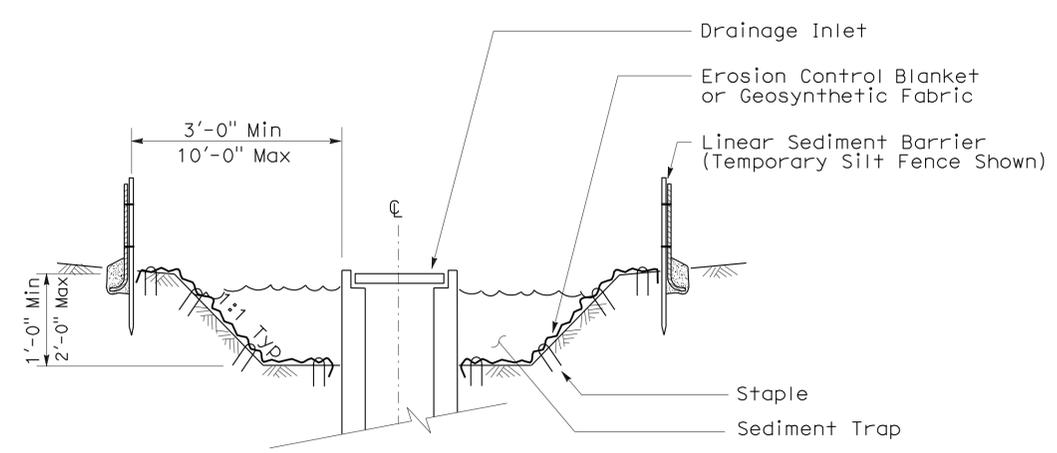


To accompany plans dated 5-21-12

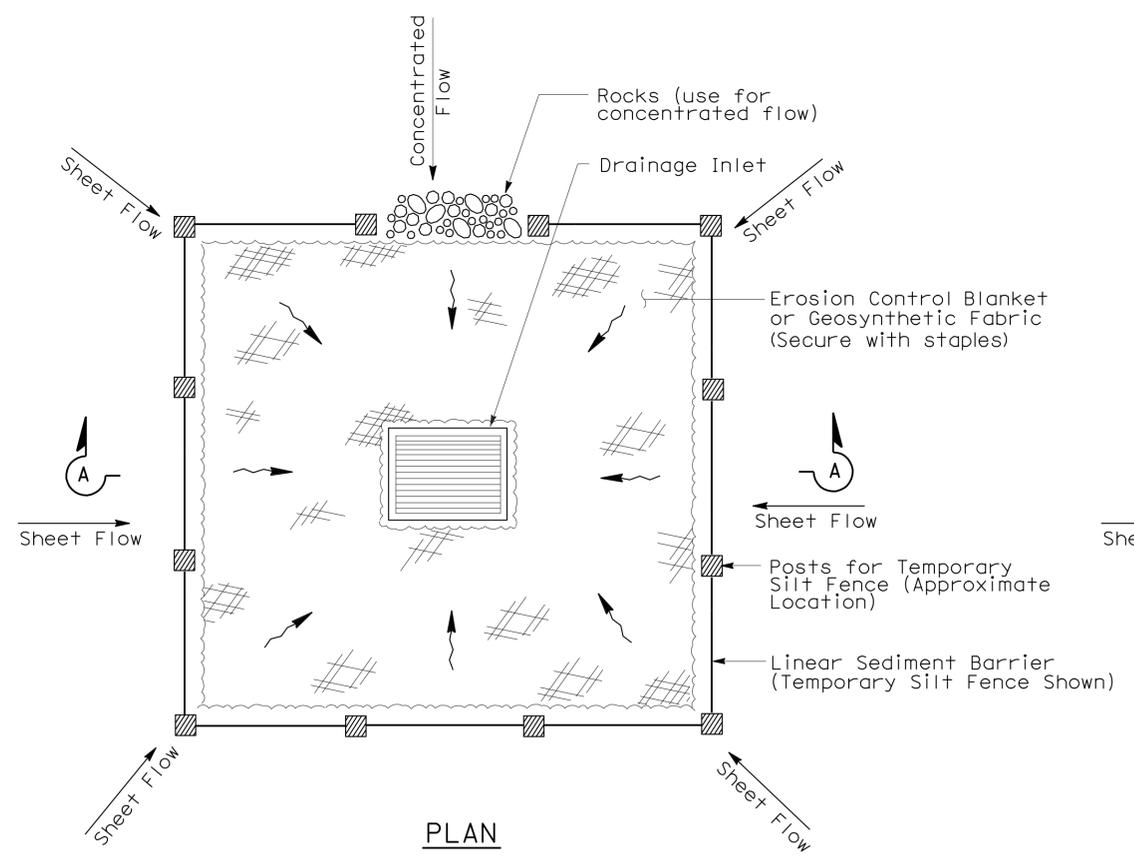
- NOTES:**
- See Standard Plan T51 for Temporary Silt Fence.
 - Dimensions may vary to fit field conditions.



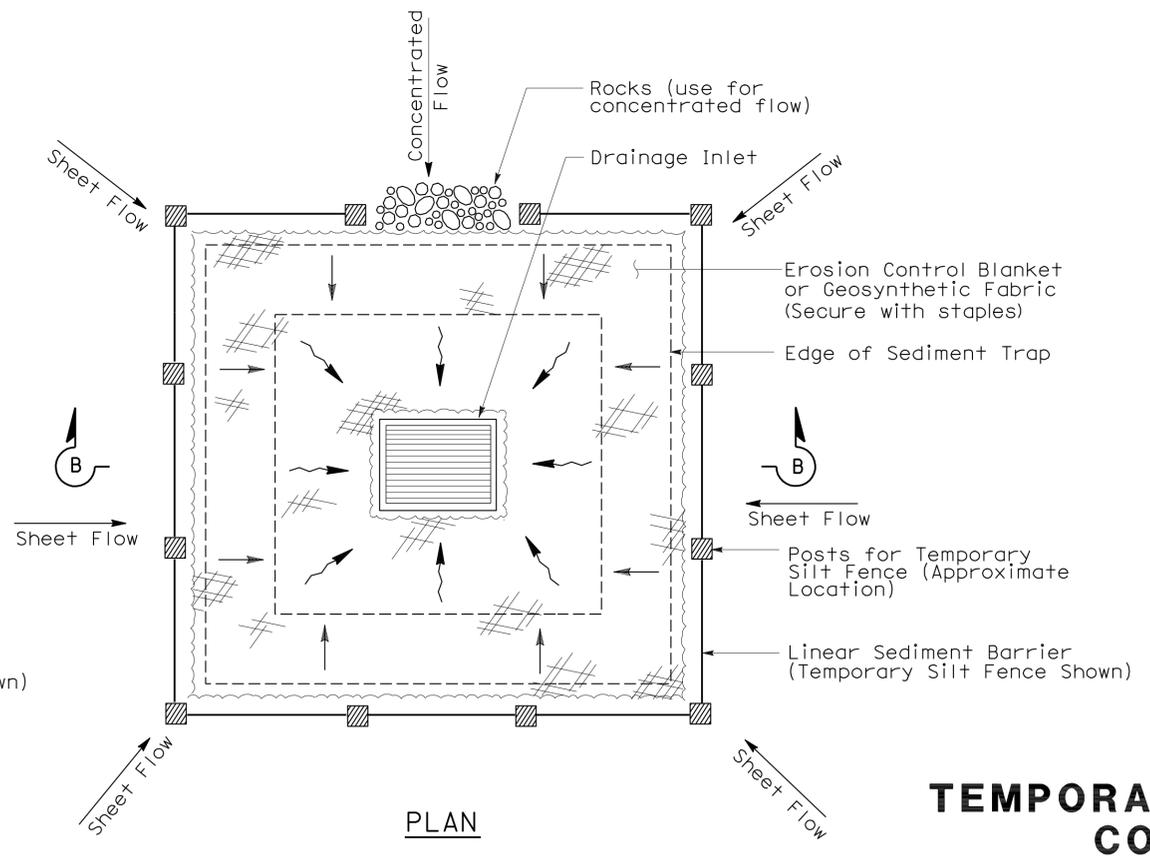
SECTION A-A



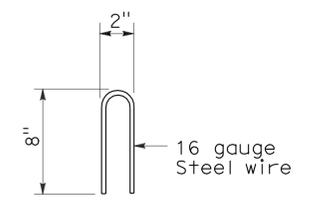
SECTION B-B



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)

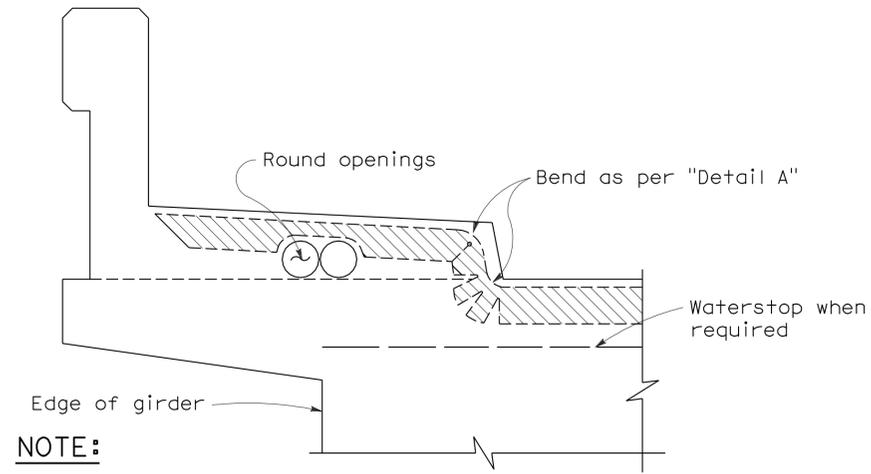
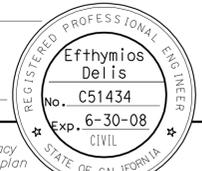


STAPLE DETAIL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)
 NO SCALE

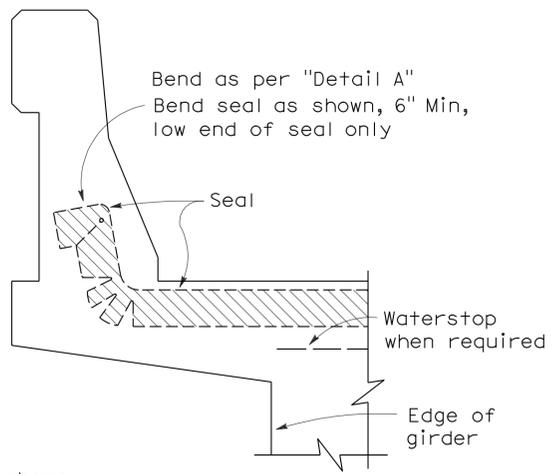
NSP T61 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T61

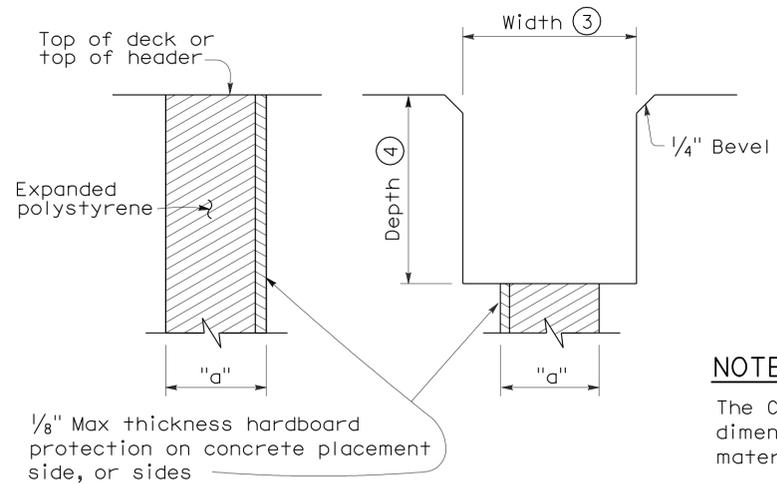


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



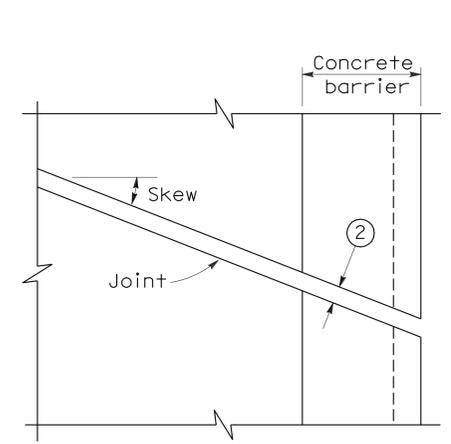
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

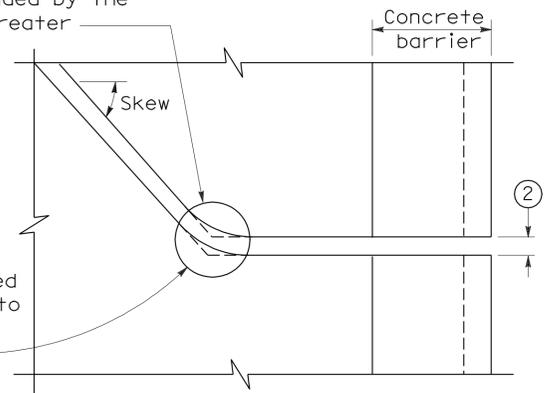
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



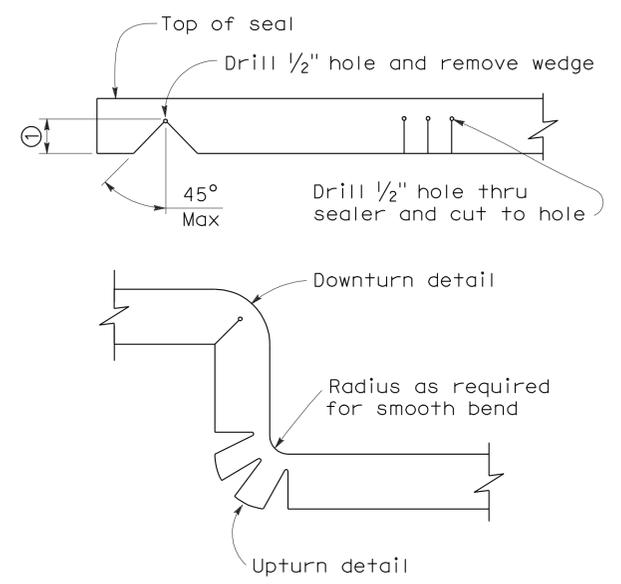
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



PLAN OF JOINT (SKEW > 20°)

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



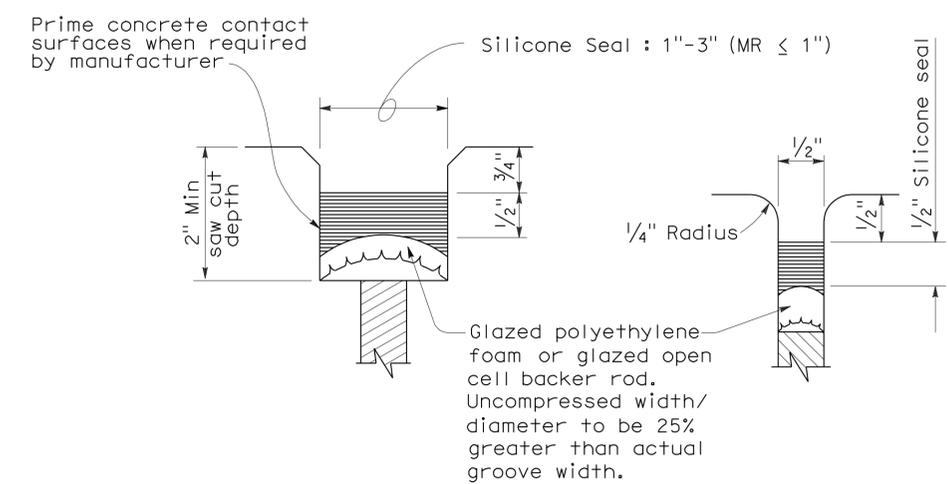
DETAIL A

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
 - Opening in barrier to match width of sawn deck joint.
 - Sawcut groove widths shall be as ordered by the Engineer.
 - Depth of sawcut: Type A - Depth to be 2" minimum.
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W₂) plus dimensions shown.
 - MR (movement rating) as shown on other plan sheets.
 - Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")
 NO SCALE

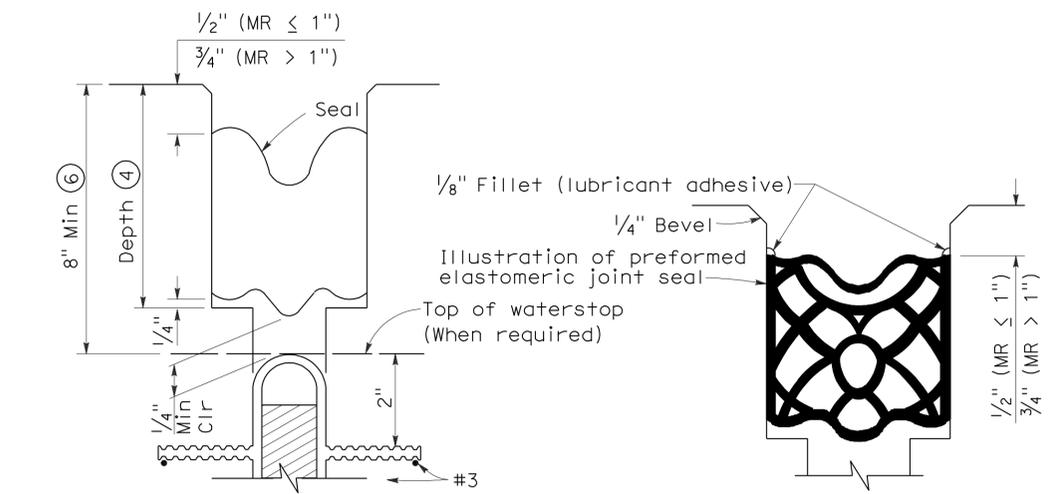


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

Movement Rating ≤ 2"

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

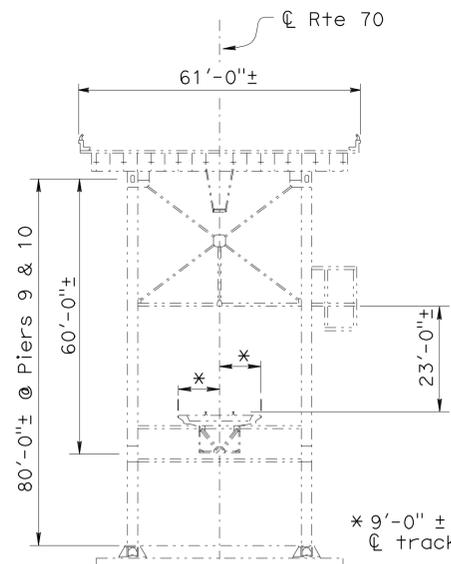
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	36	95

David Soon 1-6-12
REGISTERED CIVIL ENGINEER DATE

5-21-12
PLANS APPROVAL DATE

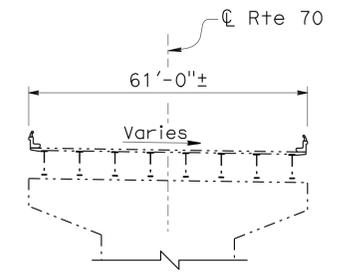
David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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APPROACH TYPICAL SECTION

NOTE:
For lane widths and traffic lanes during construction, see "STRUCTURE PLAN No. 1" sheet.



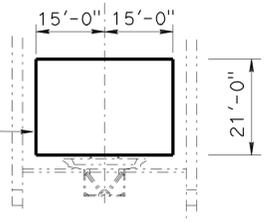
QUANTITIES

REMOVE RIVET	445	EA
RECONSTRUCT METAL WALKWAY GRATE	LUMP	SUM
REMOVE UNSOUND CONCRETE	590	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	173,656	SOFT
REMOVE CHIP SEAL	20,706	SOFT
BRIDGE REMOVAL (PORTION)	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	556	CY
DRILL AND BOND DOWEL	3,541	LF
DRILL AND PRESSURE GROUT	1,024	LF
BAR REINFORCING STEEL		
CLEAN EXPANSION JOINT	640	LF
RAPID SETTING CONCRETE PATCH	590	CF
JOINT SEAL (MR 1")	464	LF
JOINT SEAL (MR 1 1/2")	116	LF
JOINT SEAL (ASPHALTIC PLUG)	56	LF
BAR REINFORCING STEEL (BRIDGE)	137,325	LB
HEADED BAR REINFORCEMENT	640	EA
TREAT BRIDGE DECK	152,936	SOFT
PLACE MULTILAYER POLYMER OVERLAY	20,706	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	1,745	GAL
FURNISH STRUCTURAL STEEL (BRIDGE)	71,286	LB
ERECT STRUCTURAL STEEL (BRIDGE)	71,286	LB
CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP	SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP	SUM
CLEAN AND PAINT STRUCTURAL STEEL	LUMP	SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	9,199	SOFT
WORK AREA MONITORING	LUMP	SUM
MISCELLANEOUS METAL (BRIDGE)	51,955	LB
METAL PIPE RAILING	24	LF
FALL ARREST SYSTEM CABLE	7,500	LF

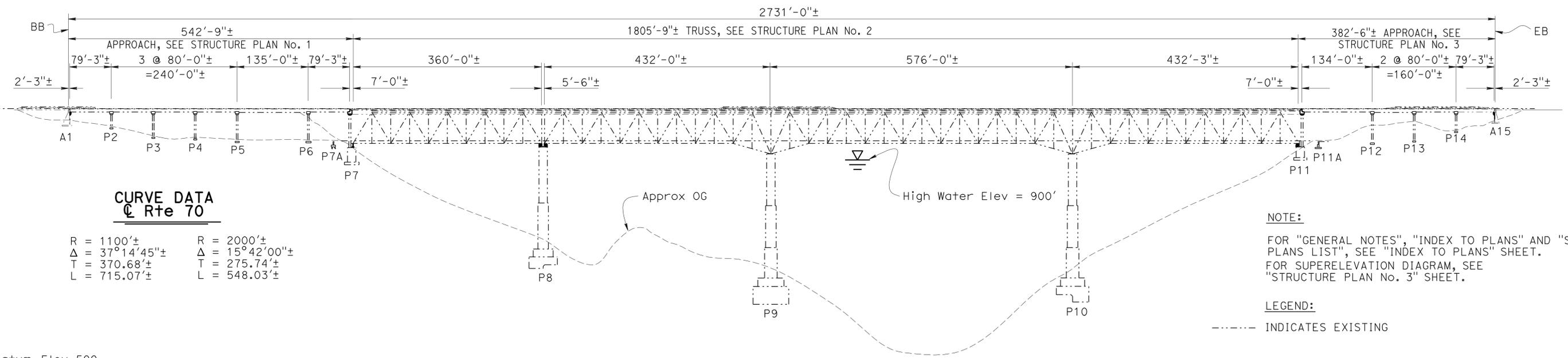
TRUSS TYPICAL SECTION

NOTE:
For lane widths and traffic lanes during construction, see "STRUCTURE PLAN No. 2" sheet.

MINIMUM CONSTRUCTION CLEARANCE ENVELOPE
NO CONSTRUCTION ACTIVITIES SHALL BE PLACED WITHIN THESE LIMITS UNLESS APPROVED BY THE RAILROAD



MINIMUM CONSTRUCTION CLEARANCE ENVELOPE

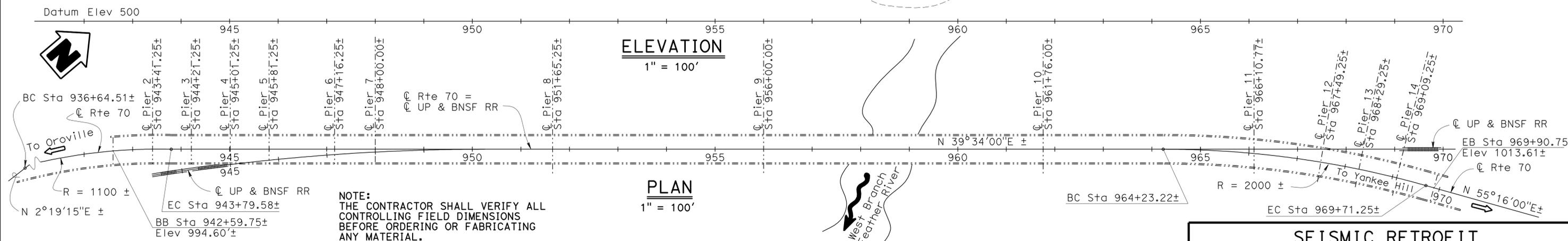


CURVE DATA
☐ Rte 70

R = 1100'±	R = 2000'±
Δ = 37°14'45"±	Δ = 15°42'00"±
T = 370.68'±	T = 275.74'±
L = 715.07'±	L = 548.03'±

NOTE:
FOR "GENERAL NOTES", "INDEX TO PLANS" AND "STANDARD PLANS LIST", SEE "INDEX TO PLANS" SHEET.
FOR SUPERELEVATION DIAGRAM, SEE "STRUCTURE PLAN No. 3" SHEET.

LEGEND:
- - - - - INDICATES EXISTING



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

DESIGN ENGINEER Kelly Ann Holden	DESIGN BY	J.Jung / E.Ortega Jr.	CHECKED	John O'Mara	LAYOUT BY	David Soon	CHECKED	E. Ortega Jr.	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134	SEISMIC RETROFIT WEST BRANCH FEATHER RIVER BRIDGE GENERAL PLAN	
	DETAILS BY	Bruno Jenko	CHECKED	David Soon		BY	Dave Klein	CHECKED			Dave Klein	POST MILE		28.2
	QUANTITIES BY	J.Jung / E.Ortega Jr.	CHECKED	ST / DD / RD	SPECIFICATIONS BY	Dave Klein	PLANS AND SPECS COMPARED	Dave Klein	CU 03227	EA 1E5101	UNIT: 3592	PROJECT: 03 0000 0266	REVISION DATES	SHEET 1 OF 60

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

FILE => 12-0134-a-gp01.dgn

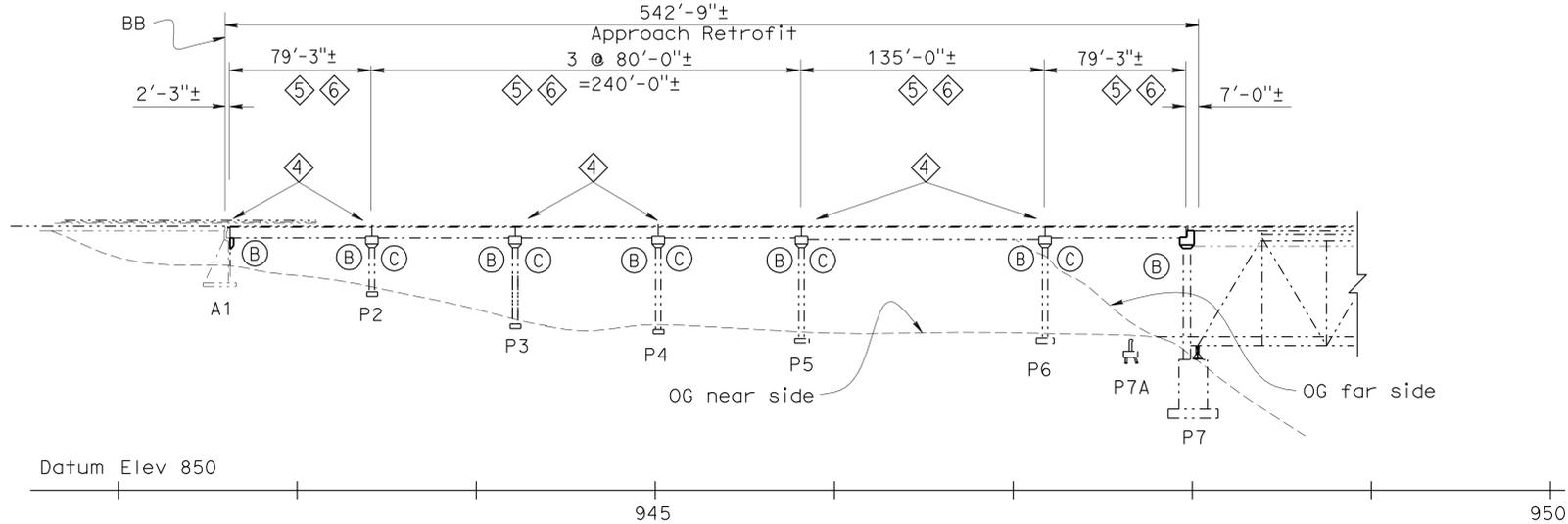
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Bu+	70	28.0/29.2	37	95

David Soon 1-6-12
REGISTERED CIVIL ENGINEER DATE

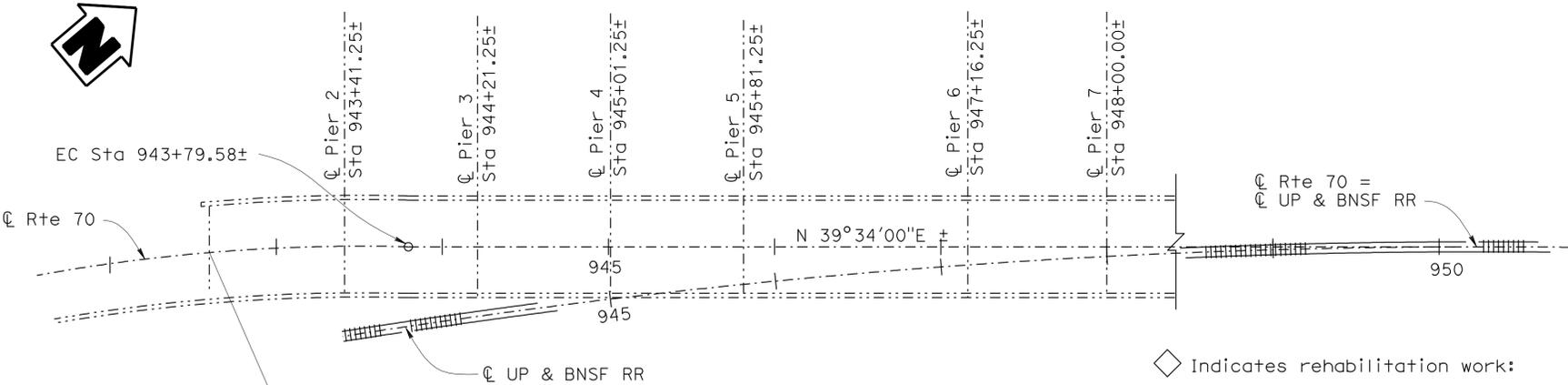
5-21-12
PLANS APPROVAL DATE

David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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ELEVATION
1" = 50'

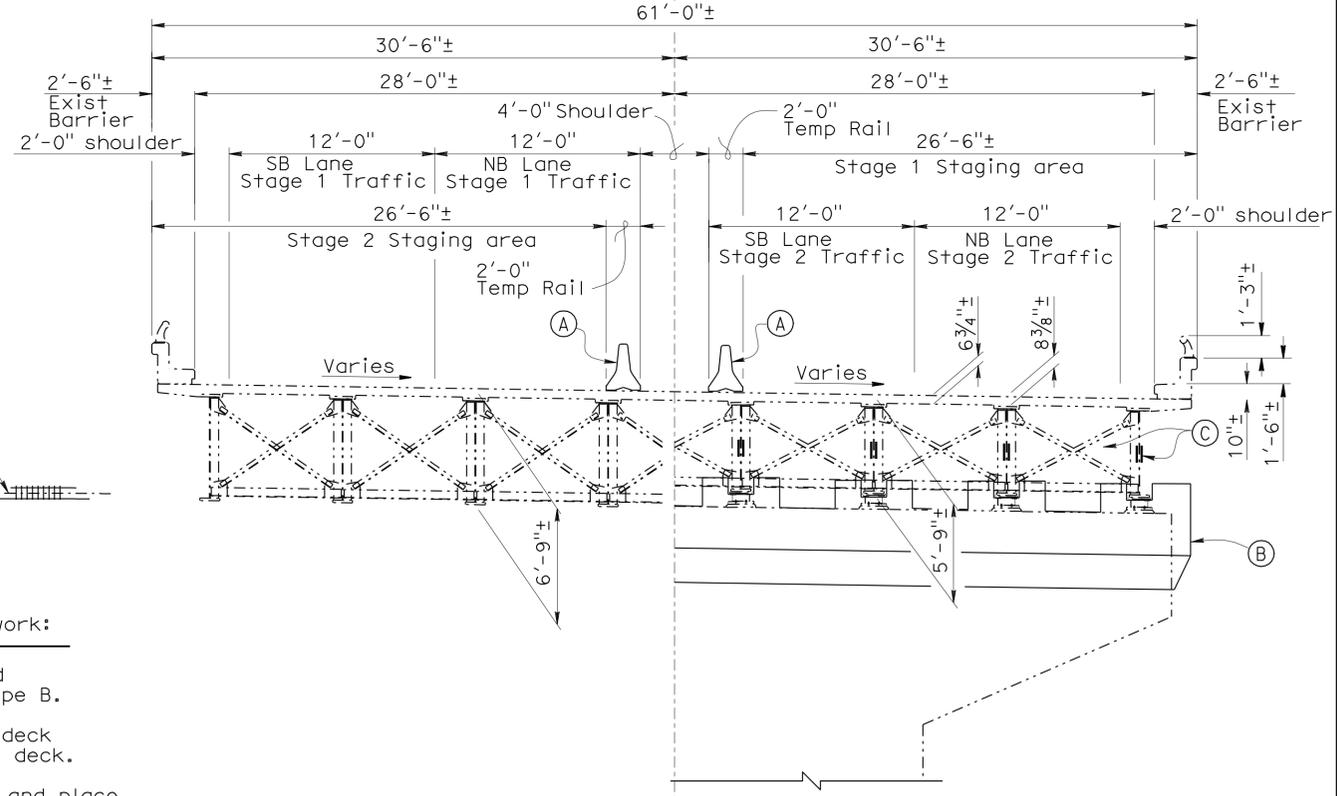


PLAN
1" = 50'

- ◇ Indicates rehabilitation work:
- ④ Clean expansion joint and install new joint seal, Type B.
- ⑤ Prepare concrete bridge deck surface and treat bridge deck.
- ⑥ Remove unsound concrete and place rapid setting concrete patch.

- NOTES:
- (A) Temporary Railing, Type K, see "ROAD PLANS".
 - (B) Concrete seat extension and shear limit blocks: Abut 1, Pier 2, 3, 4, 5, 6 and 7
 - (C) Steel plate restrainers: Pier 2, 3, 4, 5 and 6

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



Spans 5 and 11 at mid-span

Spans 1, 2, 3, 4, 6, 12, 13 and 14 at Bent

TYPICAL SECTION
3/16" = 1'-0"

LEGEND:
----- Indicates existing

DESIGN	BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134	SEISMIC RETROFIT WEST BRANCH FEATHER RIVER BRIDGE STRUCTURE PLAN No. 1
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung			POST MILE	28.2	
QUANTITIES	BY J.Jung / E.Ortega Jr.	CHECKED ST / DD / RD					

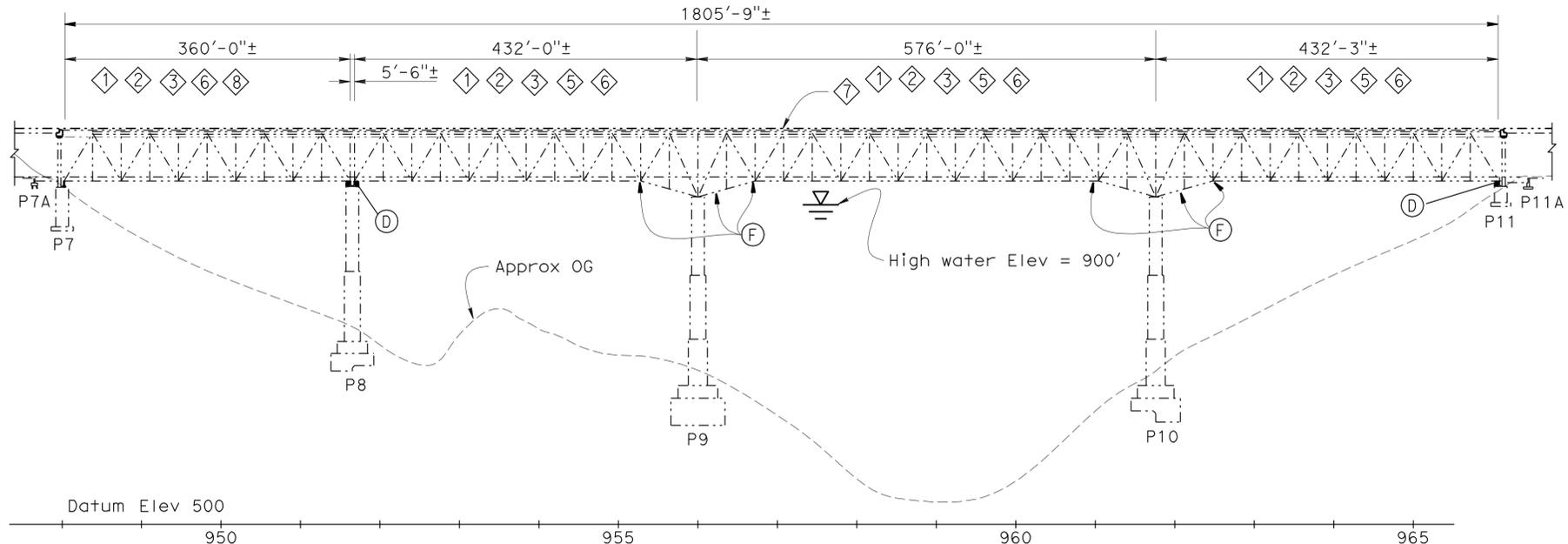
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Bu+	70	28.0/29.2	38	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE

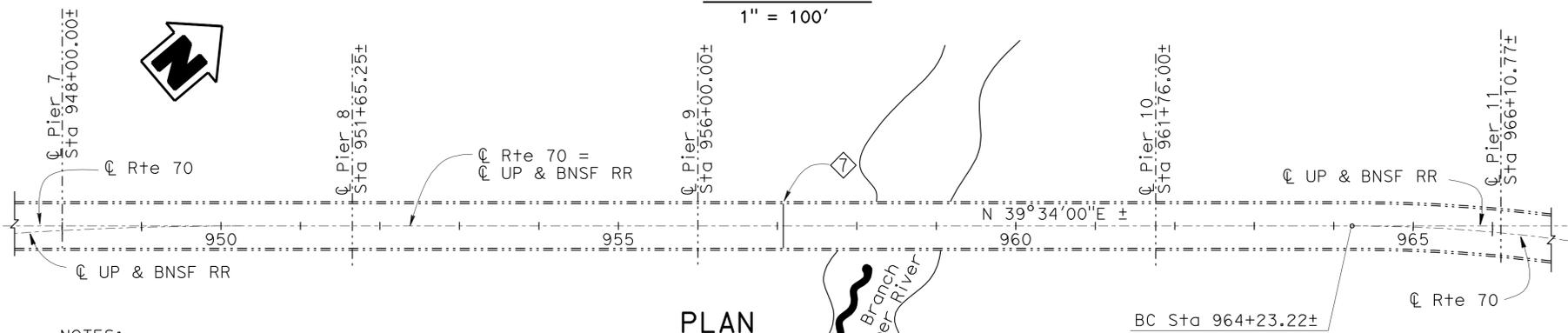
5-21-12
 PLANS APPROVAL DATE

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David Soon
 No. 51862
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



ELEVATION
1" = 100'



PLAN
1" = 100'

- NOTES:**
- ◇ Indicates rehabilitation work:
 - ① Replace missing or damaged rivets with 7/8"Ø HS bolt, washer and nut at lower floor beam to RR stringer connection. Each replacement bolt includes Spot Blast Clean and Undercoat and Paint Structural Steel (Existing Bridge) 6"Ø area on both exposed sides of bolted connection.
 - Span 7: 24 replacement HS bolts, washers and nuts
 - Span 8: 33 replacement HS bolts, washers and nuts
 - Span 9: 22 replacement HS bolts, washers and nuts
 - Span 10: 23 replacement HS bolts, washers and nuts
 - total = 102 replacement HS bolts, washers and nuts.
 - ② Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge).
 - Span 7: 1550 SF
 - Span 8: 1216 SF
 - Span 9: 1338 SF
 - Span 10: 1382 SF
 - ③ Remove existing Telegraph Wire Supports and Access ladder, Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge) exposed surface as needed. total = 13 locations.
 - ⑤ Prepare concrete bridge deck surface and treat bridge deck.

LOCATION OF TELEGRAPH WIRE SUPPORTS (South Side Only)

- ③ Hangers at Stations:
- 949+10.49 ±
- 950+54.50 ±
- 952+04.00 ±
- 953+48.00 ±
- 954+92.00 ±
- 956+36.00 ±
- 957+44.00 ±
- 958+88.00 ±
- 960+32.00 ±
- 961+40.00 ±
- 962+12.00 ±
- 963+56.00 ±
- 965+00.00 ±

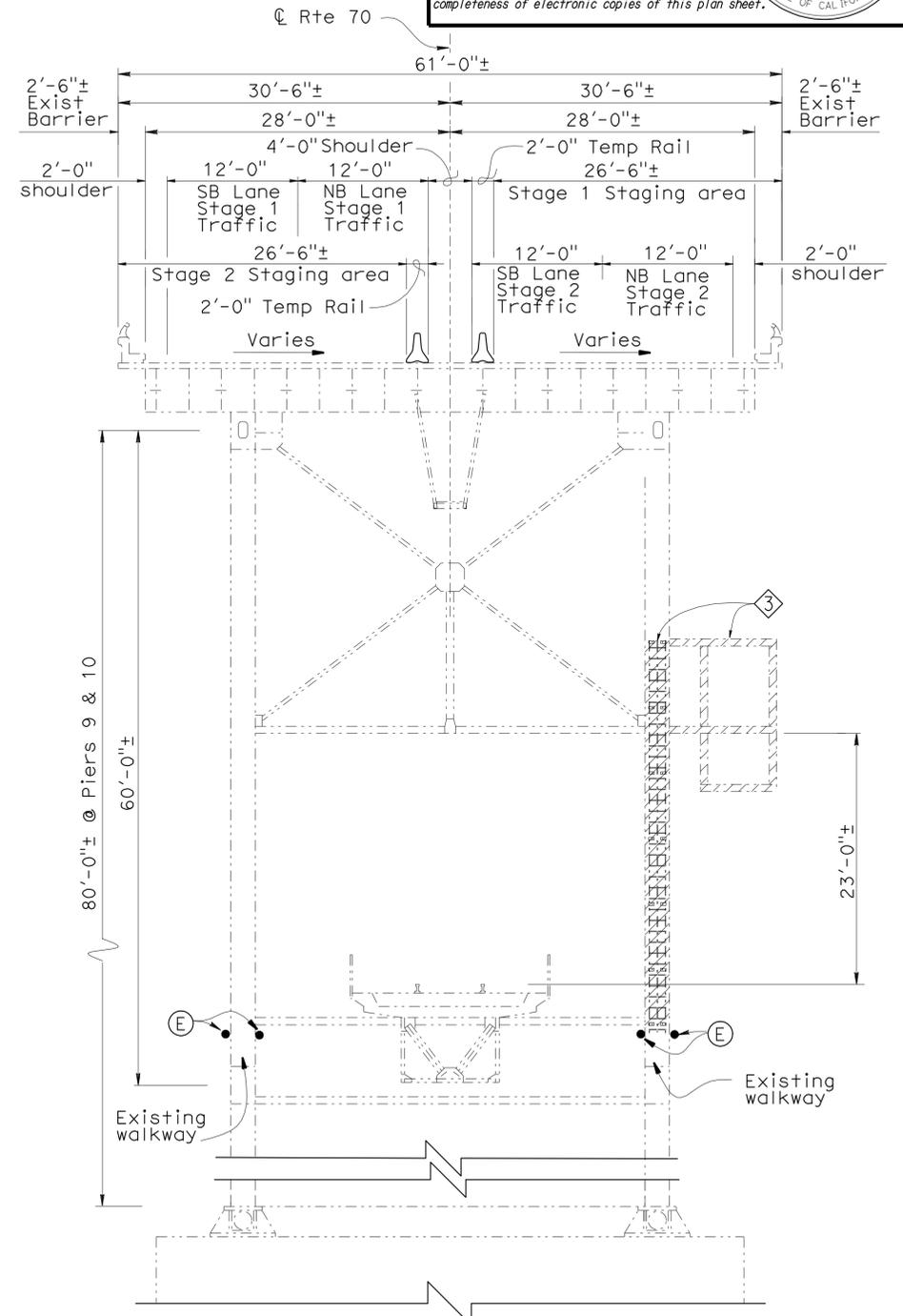
- ⑥ Remove unsound concrete and place rapid setting concrete patch. Exact location to be determined by the Engineer.
- ⑦ Replace one existing asphaltic plug joint seal.
- ⑧ Remove chip seal, prepare concrete bridge deck surface, treat bridge deck, prepare bridge deck, and construct multilayer polymer overlay, 3/8" minimum. (Span 7 only)

- Indicates Truss Retrofit:
- ⓓ Concrete catcher blocks Pier 8 and Pier 11
- ⓔ Fall Arrest System
- ⓕ Retrofit lower lateral system (diagonal members) See "TRUSS SPANS LAYOUT" sheet

LEGEND:

- Indicates existing
- ▨ Indicates removal

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

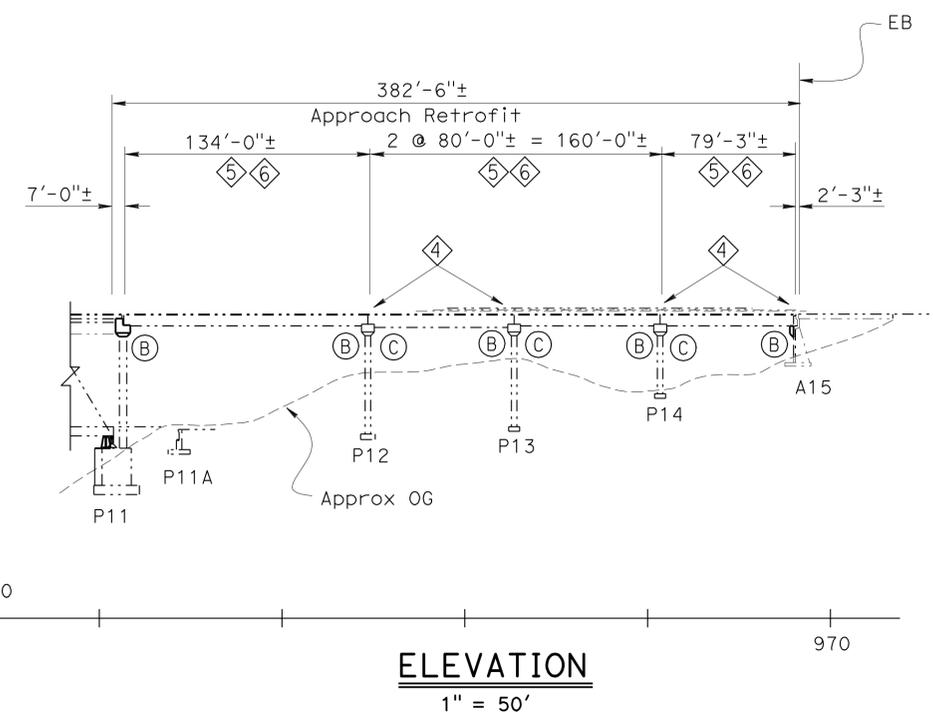
DESIGN BY J.Jung / E.Ortega Jr. CHECKED John O'Mara DETAILS BY Bruno Jenko CHECKED David Soon QUANTITIES BY J.Jung / E.Ortega Jr. CHECKED ST / DD / RD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO. 12-0134	SEISMIC RETROFIT WEST BRANCH FEATHER RIVER BRIDGE STRUCTURE PLAN No. 2
			POST MILE 28.2	
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3 CU 03227 UNIT: 3592 EA 1E5101 PROJECT: 03 0000 0266	

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.07-24-06) FILE => 12-0134-b-sp02.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	39	95

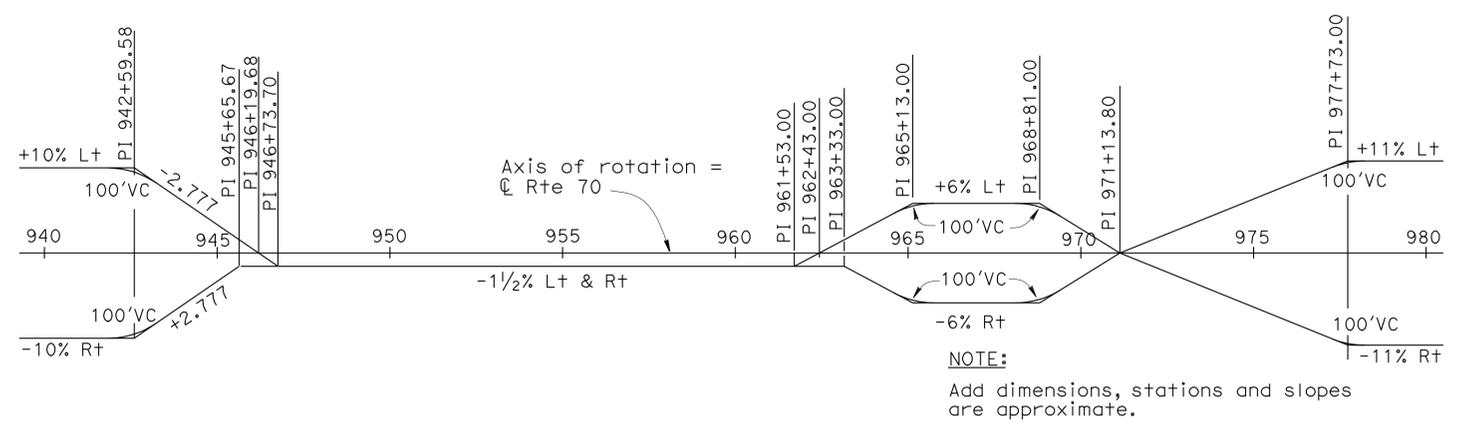
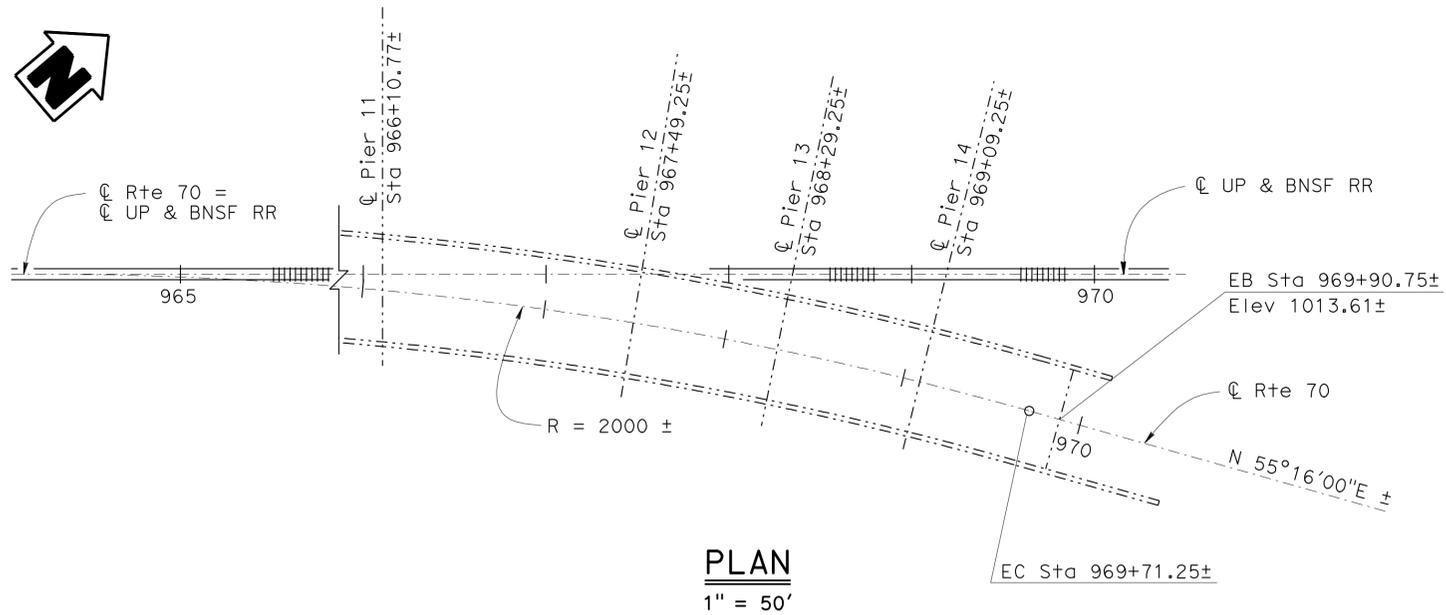
David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE
 5-21-12
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 David Soon
 No. 51862
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



NOTES:

- For "TYPICAL SECTION", see "STRUCTURE PLAN No. 1"
- (B) Concrete seat extension, catcher blocks and shear limit blocks:
Pier 11, 12, 13, 14 and Abut 15
- (C) Steel plate restrainers:
Pier 12, 13 and 14.
- ◇ Indicates rehabilitation work:
- ◇ Clean expansion joint and install new joint seal, Type B.
- ◇ Prepare concrete bridge deck surface and treat bridge deck.
- ◇ Remove unsound concrete and place rapid setting concrete patch.

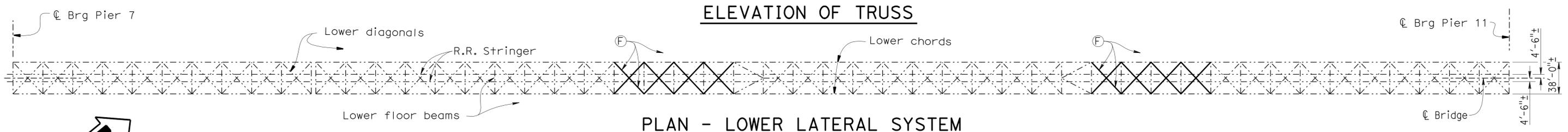
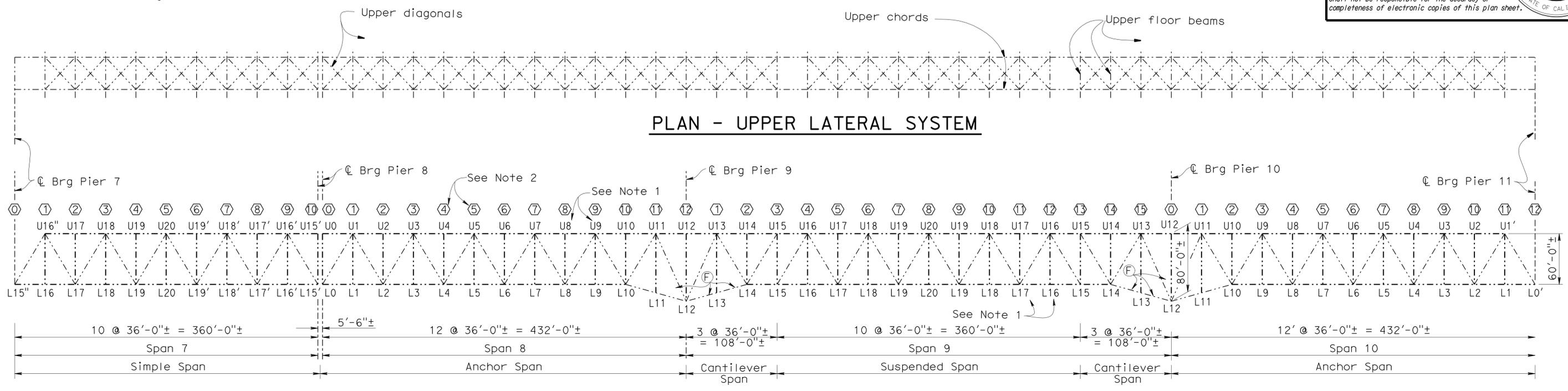


NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND:
----- Indicates existing

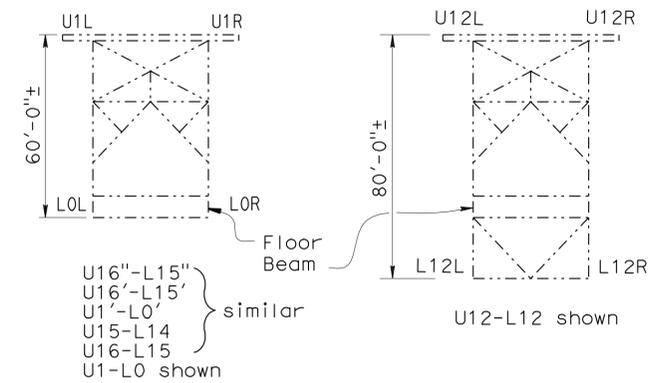
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION			DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7		BRIDGE NO. 12-0134 POST MILE 28.2	SEISMIC RETROFIT WEST BRANCH FEATHER RIVER BRIDGE STRUCTURE PLAN No. 3
DESIGN	BY David Soon	CHECKED Jun Ki Jung				
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung				
QUANTITIES	BY J. Jung / E. Ortega Jr.	CHECKED ST / DD / RD				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	CU 03227 UNIT: 3592 EA 1E5101 PROJECT: 03 0000 0266	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 4-5-10 1-7-11 1-12-11 5-11-11 9-28-11 12-12-11
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.07-24-06)						SHEET 4 OF 60

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Bu+	70	28.0/29.2	40	95
David Soon			1-6-12	REGISTERED CIVIL ENGINEER DATE	
5-21-12			PLANS APPROVAL DATE		
No. 51862			Exp. 6-30-12		
CIVIL			STATE OF CALIFORNIA		



PLAN - LOWER LATERAL SYSTEM

- LEGEND:**
- Indicates existing
 - ⊕ Indicates steel structure retrofit:
 - ⊕ Retrofit lower lateral system (diagonal members).
 - ⊕ Indicates Upper or Lower
 - ⊕ Indicates Panel
 - ⊕ Indicates Left or Right Truss
 - ⊕ U 2 R Indicates Truss location use for TRUSS RETROFIT and TRUSS REHABILITATION RIVET REPLACEMENT work.
 - ⊕ Indicates panel points use for TRUSS REHABILITATION-SPOT BLAST CLEAN AND PAINT work.



PORTALS TYPICAL SECTION
No scale

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

DESIGN BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. 12-0134	SEISMIC RETROFIT WEST BRANCH FEATHER RIVER BRIDGE TRUSS SPANS LAYOUT
DETAILS BY Bruno Jenko	CHECKED Jun Ki Jung		DESIGN BRANCH 7	POST MILE 28.2	
QUANTITIES BY J. Jung / E. Ortega Jr	CHECKED ST / DD / RD				

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 03227 UNIT: 3592 EA 1E5101 PROJECT: 03 0000 0266	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 5 OF 60
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1. GENERAL PLAN
2. STRUCTURE PLAN No. 1
3. STRUCTURE PLAN No. 2
4. STRUCTURE PLAN No. 3
5. TRUSS SPANS LAYOUT
6. INDEX TO PLANS
7. TRUSS RETROFIT - DIAGONAL DETAIL No. 1
8. TRUSS RETROFIT - DIAGONAL DETAIL No. 2
9. TRUSS RETROFIT - CATCHER DETAILS No. 1
10. TRUSS RETROFIT - CATCHER DETAILS No. 2
11. TRUSS RETROFIT - PIPE RAILING AND LADDER DETAILS No. 1
12. TRUSS RETROFIT - PIPE RAILING AND LADDER DETAILS No. 2
13. APPROACH RETROFIT - ABUTMENT 1 LAYOUT
14. APPROACH RETROFIT - ABUTMENT 15 LAYOUT
15. APPROACH RETROFIT - ABUTMENT DETAILS
16. APPROACH RETROFIT - PIER 2, 3, 4, 13 AND 14 LAYOUT
17. APPROACH RETROFIT - PIER 2, 3, 4, 13 AND 14 DETAILS
18. APPROACH RETROFIT - PIER 5, 6 AND 12 LAYOUT
19. APPROACH RETROFIT - PIER 5, 6 AND 12 DETAILS No. 1
20. APPROACH RETROFIT - PIER 5, 6 AND 12 DETAILS No. 2
21. APPROACH RETROFIT - PIER 5, 6 AND 12 DETAILS No. 3
22. APPROACH RETROFIT - PIER 7 LAYOUT
23. APPROACH RETROFIT - PIER 7 DETAILS No. 1
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25. APPROACH RETROFIT - PIER 7 DETAILS No. 3
26. APPROACH RETROFIT - PIER 11 LAYOUT
27. APPROACH RETROFIT - PIER 11 DETAILS No. 1
28. APPROACH RETROFIT - PIER 11 DETAILS No. 2
29. APPROACH RETROFIT - PIER 11 DETAILS No. 3
30. APPROACH RETROFIT - PIER 11 DETAILS No. 4
31. APPROACH RETROFIT - STEEL PLATE RESTRAINER DETAILS
32. TRUSS REHABILITATION - TELEGRAPH FRAME REMOVAL DETAILS
33. TRUSS REHABILITATION - RIVET REPLACEMENT DETAILS
34. TRUSS REHABILITATION - FALL ARREST SYSTEM DETAILS No. 1
35. TRUSS REHABILITATION - FALL ARREST SYSTEM DETAILS No. 2
36. TRUSS REHABILITATION - FALL ARREST SYSTEM DETAILS No. 3
37. TRUSS REHABILITATION - FALL ARREST SYSTEM DETAILS No. 4
38. TRUSS REHABILITATION - FALL ARREST SYSTEM DETAILS No. 5
39. TRUSS REHABILITATION - FALL ARREST SYSTEM DETAILS No. 6
40. TRUSS REHABILITATION - FALL ARREST SYSTEM DETAILS No. 7
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42. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT LAYOUT
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44. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 2
45. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 3
46. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 4
47. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 5
48. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 6
49. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 7
50. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 8
51. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 9
52. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 10
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54. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 12
55. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 13
56. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 14
57. TRUSS REHABILITATION - SPOT BLAST CLEAN AND PAINT DETAIL No. 15
58. DECK REHABILITATION - DETAILS No. 1
59. DECK REHABILITATION - DETAILS No. 2
60. DECK REHABILITATION - DETAILS No. 3

**GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN**

DESIGN:

Project Specific Design Criteria for the West Branch Feather River Bridge (Seismic Retrofit)
dated 10-3-2011
AASHTO LRFD Specifications, 4th Edition with California Amendments, dated December 2008.

SEISMIC DESIGN:

Project Specific Design Criteria for the West Branch Feather River Bridge Retrofit
dated 10-3-2011
Caltrans Seismic Design Criteria (SDC), Version 1.5 dated 2009.

SEISMIC LIVE LOADING:

Cooper E80

SEISMIC LOADING:

Soil Profile: $V_{s30} = 2500$ feet per second
Moment Magnitude: 6.5
Peak Bedrock Acceleration 0.2g.
Acceleration Response Spectra (as shown)

CONCRETE:

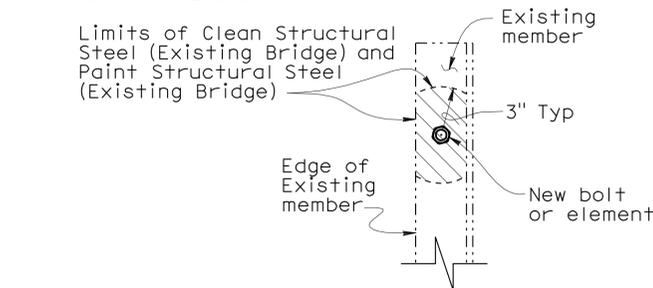
$f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$

STRUCTURAL STEEL:

$f_y = 36$ ksi ASTM A36
High Strength Bolts ASTM A325

ORDER OF WORK

Fall Arrest System shall be completed before start of other structure work.



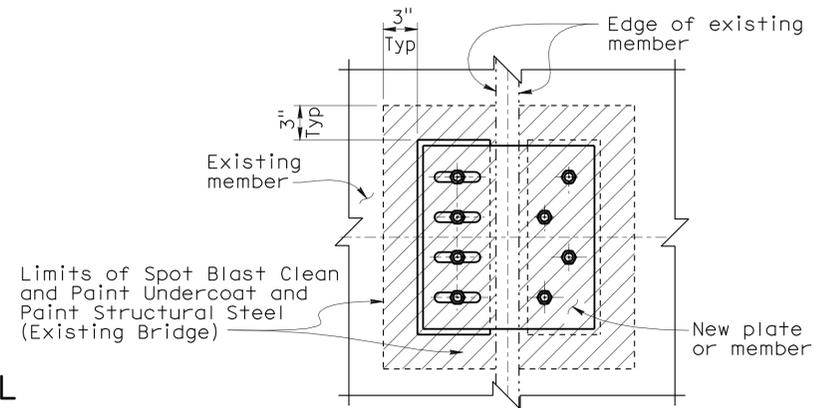
LIMITS OF CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)

No Scale

NOTES:

1. Limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge) shall be 3" from modification work or edge of surface.
2. This detail applicable to Fall Arrest System, modify existing railing, modify walkway hanger and remove telegraph frame.
3. Areas of rust or other foreign substances prohibiting the bond of paint shall be spot blast cleaned and painted.

Indicates limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge).



LIMITS OF SPOT BLAST CLEAN AND PAINT UNDERCOAT AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)

No Scale

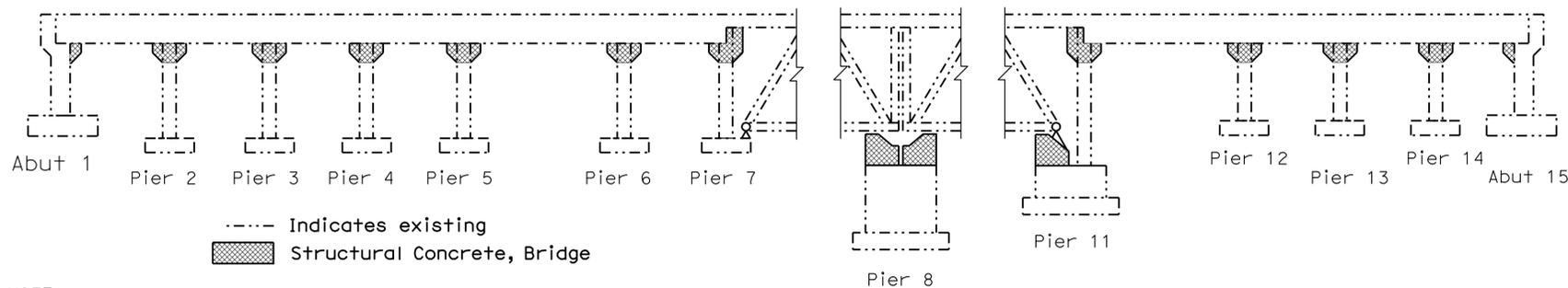
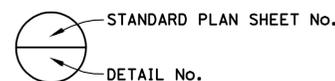
NOTES:

1. Limits of Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge) shall be 3" from modification work or edge of surface.
2. This detail applicable to Diagonal Retrofit, Steel Plate Restrainers and replace rivets.
3. This detail is not applicable to "SPOT BLAST CLEAN & PAINT LAYOUT" and "SPOT BLAST CLEAN & PAINT DETAILS" sheets.

Indicates limits of Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge).

STANDARD PLANS DATED MAY 2006

- | | |
|-----------|--|
| A10A | ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2) |
| A10B | ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2) |
| A10C | SYMBOLS (SHEET 1 OF 2) |
| A10D | SYMBOLS (SHEET 2 OF 2) |
| RSP B6-21 | JOINT SEALS (MAXIMUM MOVEMENT RATING = 2") |
| B11-7 | CHAIN LINK RAILING |

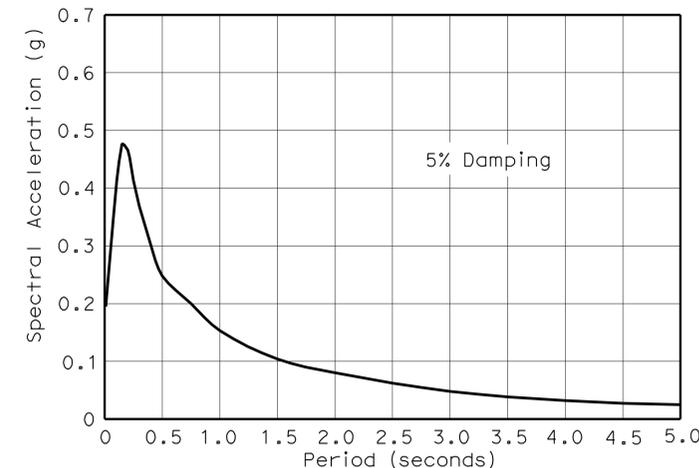


--- Indicates existing
 Structural Concrete, Bridge

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

CONCRETE STRENGTH AND TYPE LIMITS

No Scale



ACCELERATION RESPONSE SPECTRA

West Branch Feather River Bridge Br No. 12-0134

**SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
INDEX TO PLANS**

DESIGN	BY David Soon	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY J. Jung / E.Ortega Jr.	CHECKED ST / DD / RD

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO.
12-0134
POST MILE
28.2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES

10-28-10 1-22-11 12-14-11 12-7-11

SHEET 6 OF 60

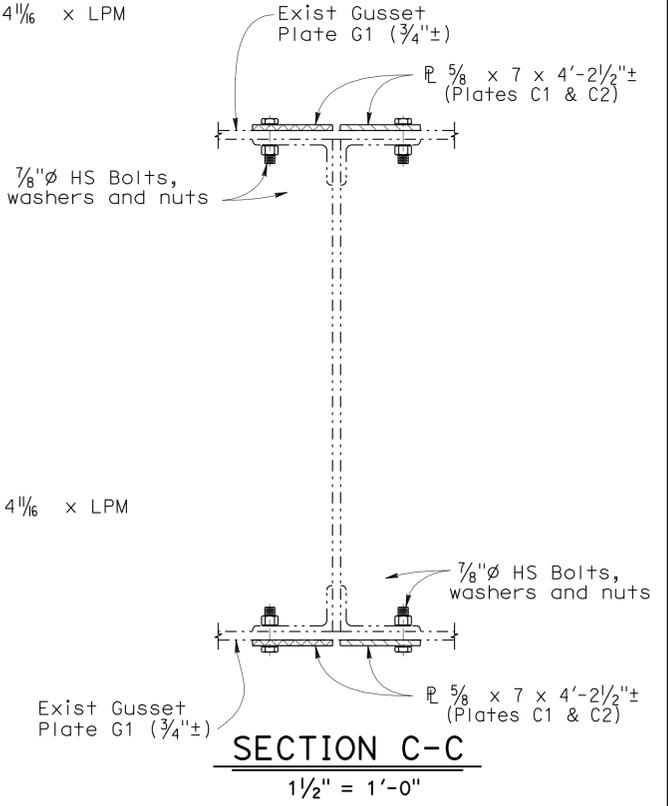
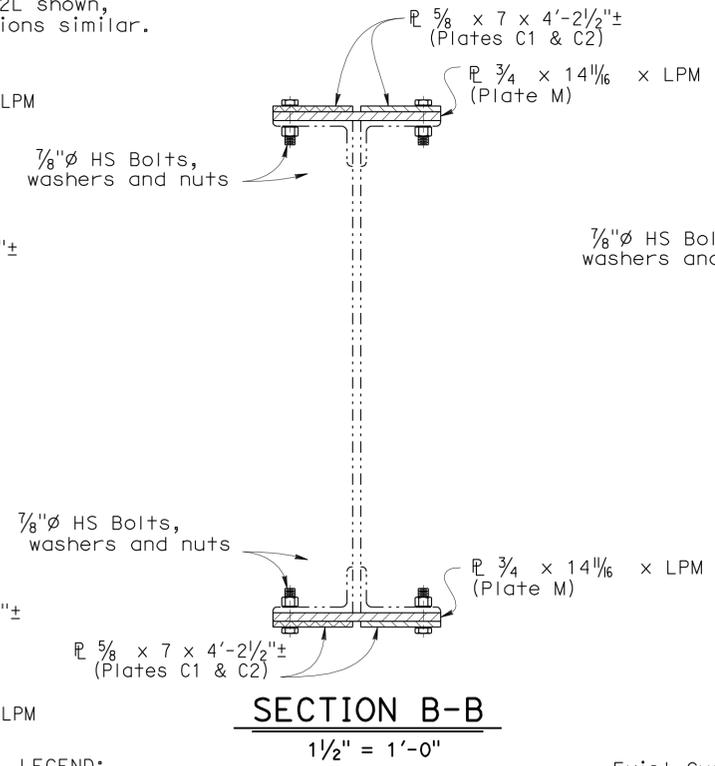
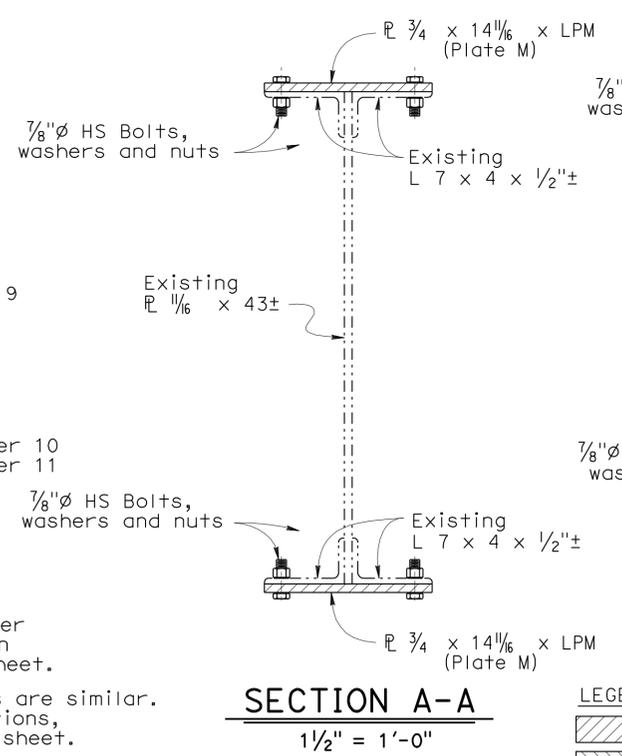
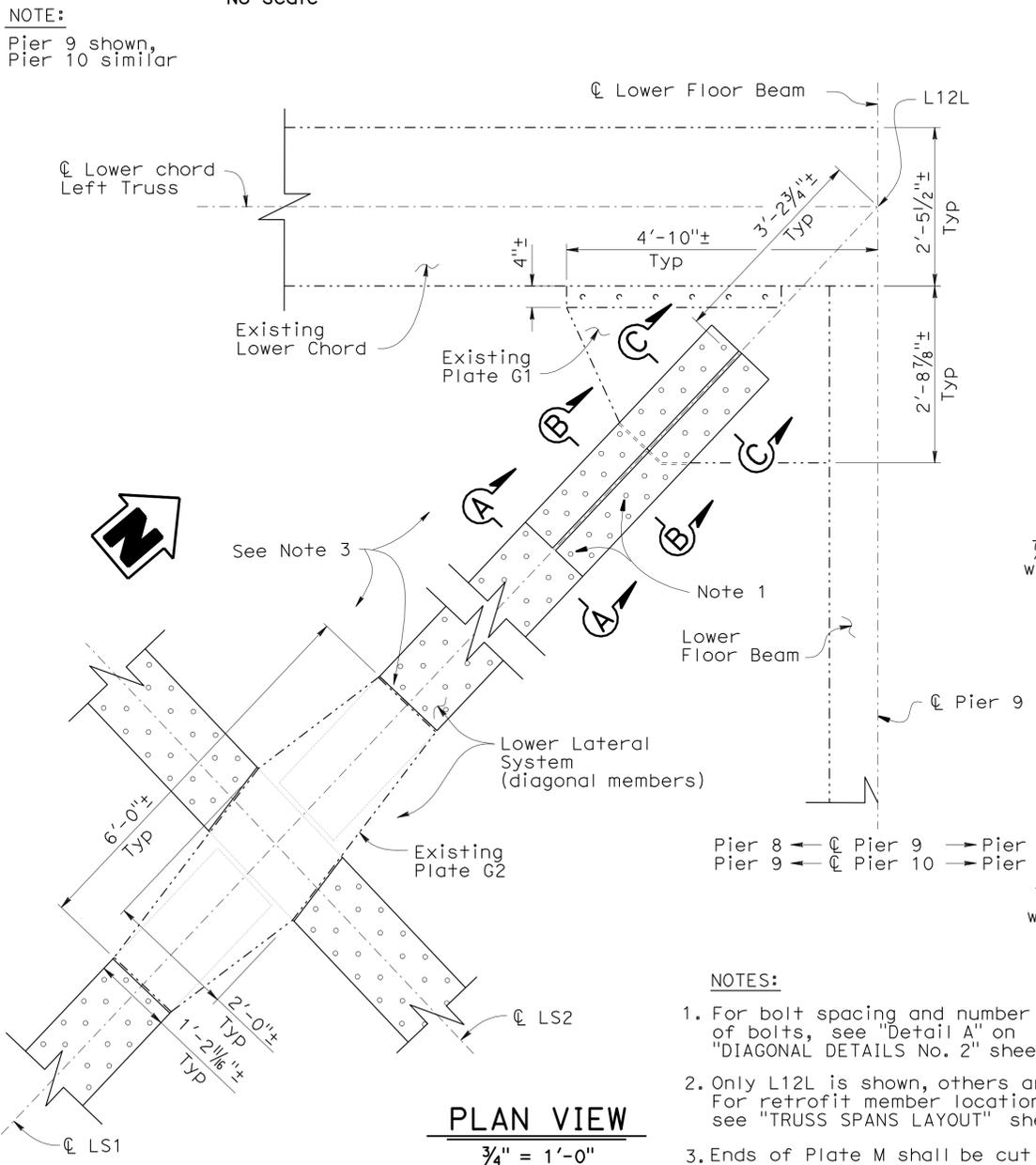
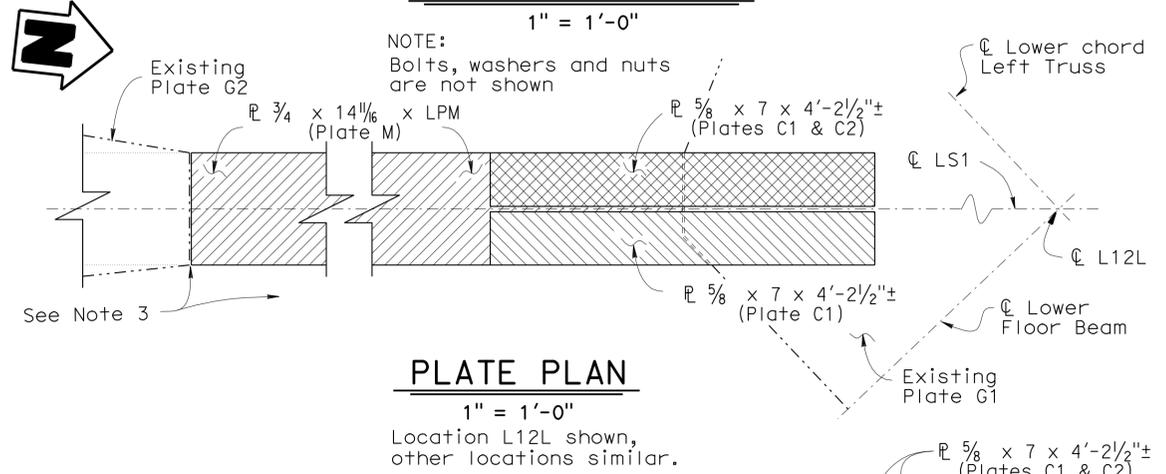
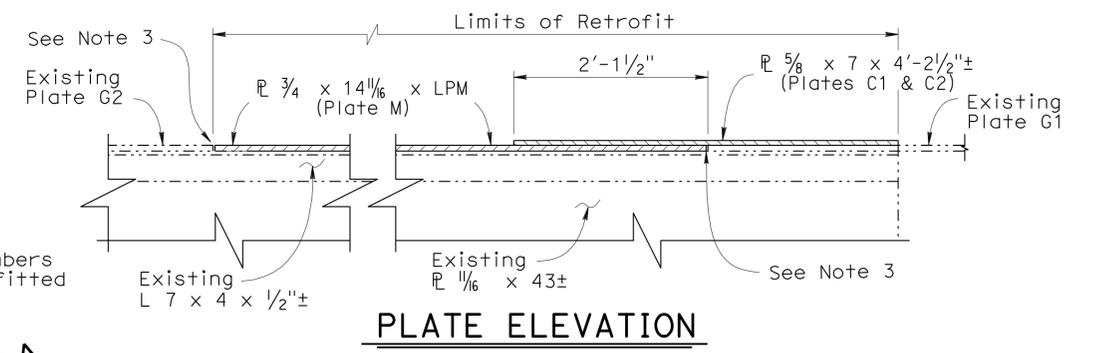
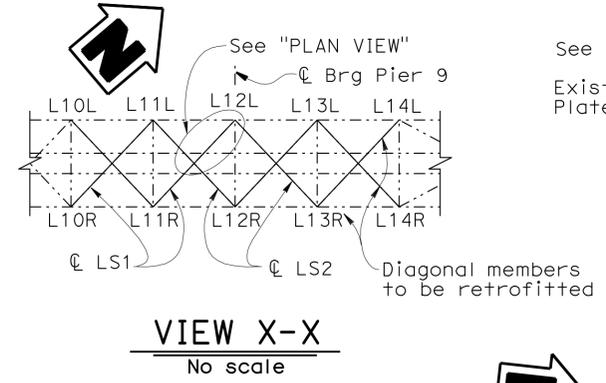
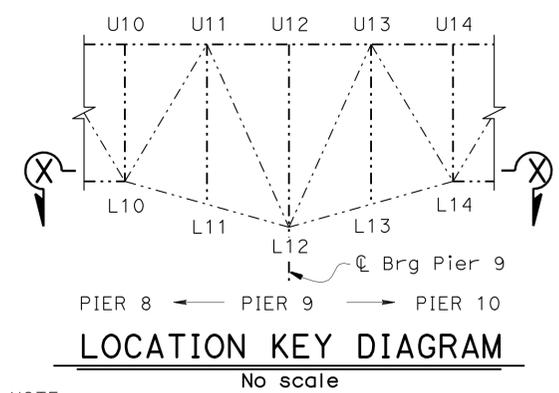
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	42	95

David Soon 1-6-12
REGISTERED CIVIL ENGINEER DATE

5-21-12
PLANS APPROVAL DATE

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David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA



- NOTES:**
- For bolt spacing and number of bolts, see "Detail A" on "DIAGONAL DETAILS No. 2" sheet.
 - Only L12L is shown, others are similar. For retrofit member locations, see "TRUSS SPANS LAYOUT" sheet.
 - Ends of Plate M shall be cut to match the shape of existing plates G1 and G2 with maximum 1/4" gap.

- LEGEND:**
- Indicates Plate M
 - Indicates Plate C1
 - Indicates Plate C2
 - Indicates existing
 - Indicates HS Bolts, washers and nuts

- NOTES:**
- All new steel exposed surfaces must be cleaned and painted before bolts and plates are placed. All existing steel shall be Spot Blast Clean and Paint Undercoat then Paint Structural Steel (Existing Bridge).
 - For "LPM" dimensions, see "Table 1" on "DIAGONAL DETAILS No. 2" sheet.
 - For "Construction Sequence For Retrofit Of Lower Lateral System", see "DIAGONAL DETAILS No. 2" sheet.
 - For limits of Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge), see "LIMITS OF SPOT BLAST CLEAN AND PAINT UNDERCOAT AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" detail on "INDEX TO PLANS" sheet.

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

DESIGN	BY Jun Ki Jung	CHECKED Eduardo Ortega Jr.	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Gerald Dickerson	CHECKED Eduardo Ortega Jr.			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED Sujun Talukder				

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
TRUSS RETROFIT	
DIAGONAL DETAILS No. 1	

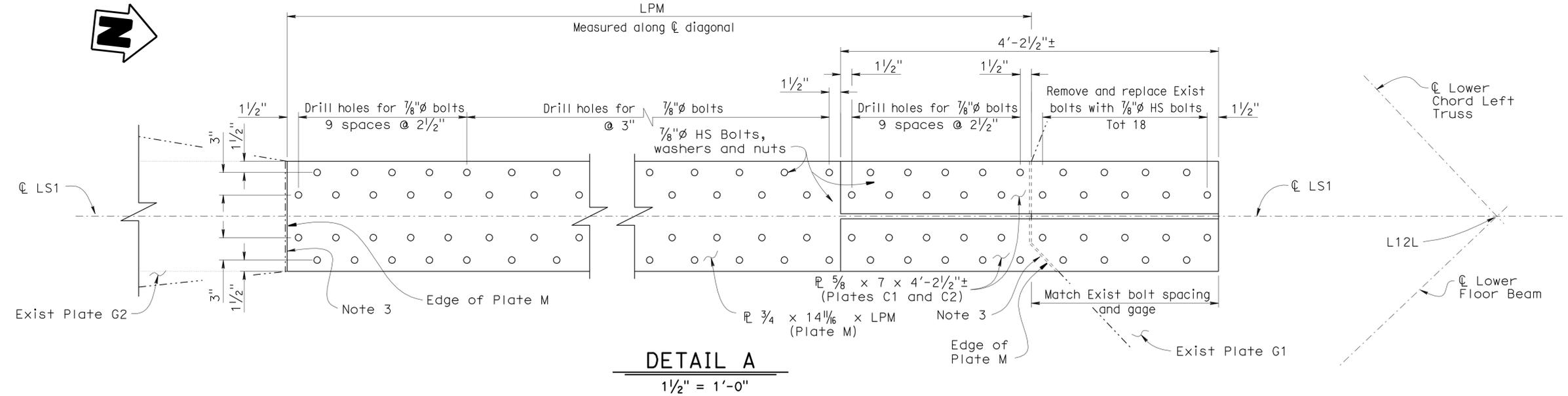
CONSTRUCTION SEQUENCE FOR RETROFIT OF LOWER LATERAL SYSTEM

TABLE 1

LENGTH OF PLATE M	CL LS1	CL LS2
LPM	18'-4"±	20'-4"±

Note 3:
 Ends of Plate M shall be cut to match the shape of existing plates G1 and G2 with maximum 1/4" gap.

1. Drill 7/8" ∅ holes on top and bottom flanges of retrofit members with in the limits of Plate M.
2. Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge) and Clean and Paint Structural Steel appropriate surfaces for installation of Plate M on top and bottom.
3. Install Plate M on top and bottom flanges with 7/8" ∅ HS bolts, washers and nuts. Leave end of Plate M unbolted for assembling with Plates C1 and C2.
4. Remove existing bolts from existing Plate G1 that lies under Plate C1 @ top flange. Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge) and Clean and Paint Structural Steel the appropriate surfaces.
5. Install Plate C1 on top existing Plate G1 with 7/8" ∅ HS bolts, washers and nuts. Install the remaining bolts to assemble Plates M and C1 on top flange.
6. Repeat steps 3 and 4 for Plates C2 and M on bottom flange.
7. Repeat steps 3 and 4 for Plates C2 and M on top flange.
8. Repeat steps 3 and 4 for Plates C1 and M on bottom flange.
9. Steps 1 through 8 for each location must be completed before moving to next location.



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

Location L12L shown, other locations similar.

LEGEND:
 ----- Indicates existing
 ○ Indicates HS Bolts, washers and nuts

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

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS RETROFIT
DIAGONAL DETAILS No. 2

DESIGN	BY Jun Ki Jung	CHECKED Eduardo Ortega Jr.	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Gerald Dickerson	CHECKED Eduardo Ortega Jr.			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED Sujun Talukder				

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 03227 UNIT: 3592	EA 1E5101 PROJECT: 03 0000 0266	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 8 OF 60
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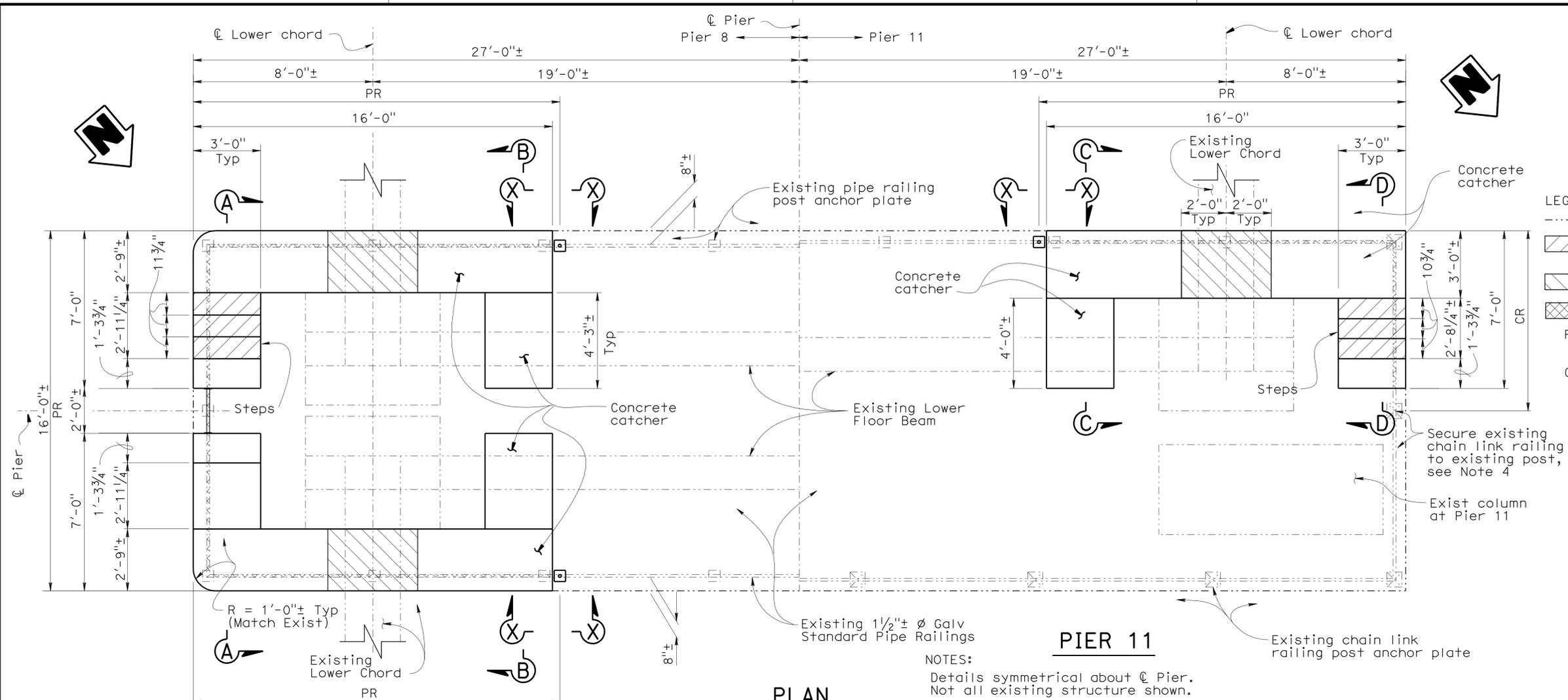
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	44	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE

5-21-12
 PLANS APPROVAL DATE

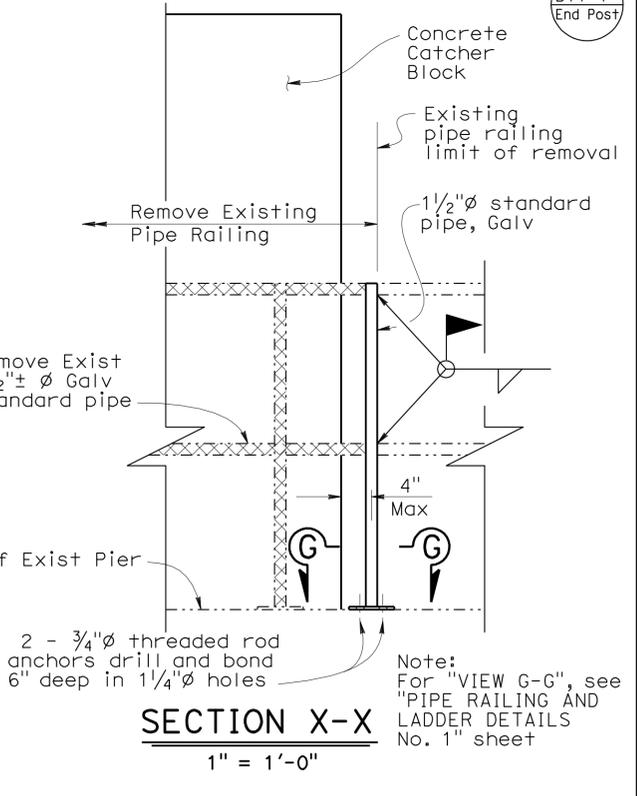
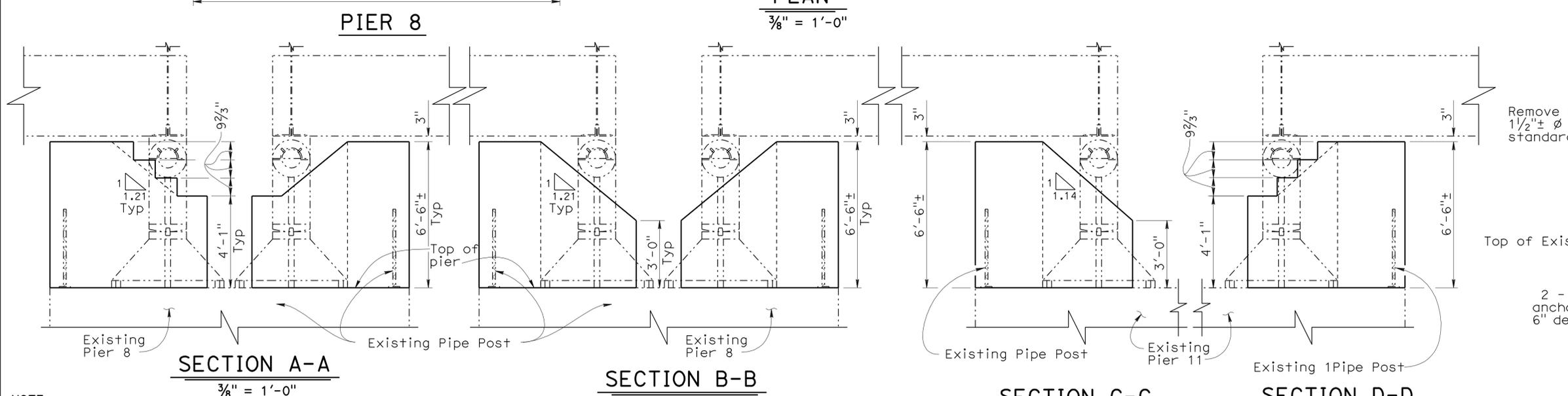
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REGISTERED PROFESSIONAL ENGINEER
 David Soon
 No. 51862
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



- LEGEND:**
- Indicates existing
 - ▨ Indicates rough surface finish on steps.
 - ▩ Indicates "Concrete Protection Plate", see "CATCHER DETAILS No. 2" sheet.
 - ▧ Indicates removal
 - PR Remove existing pipe railings, posts and anchor plates.
 - CR Remove existing chain link railing.

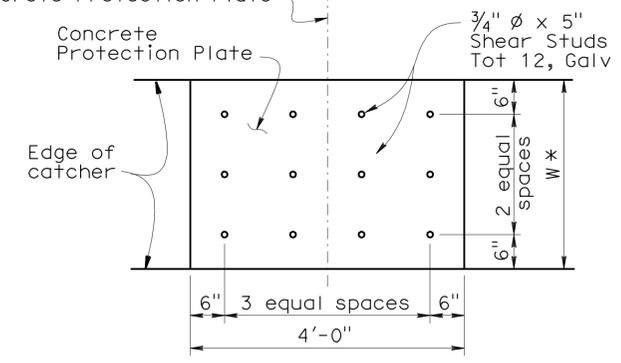
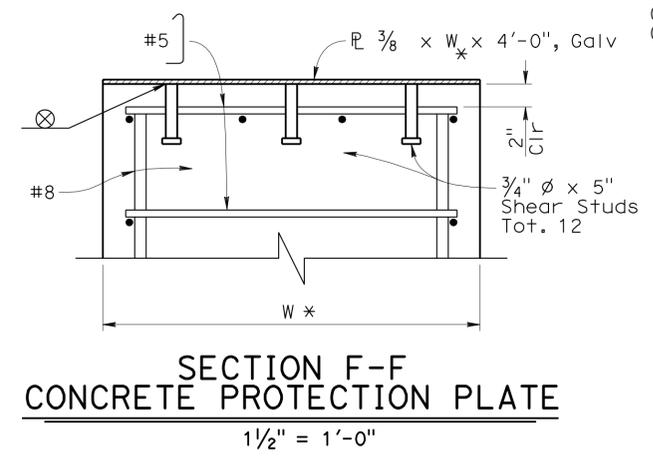
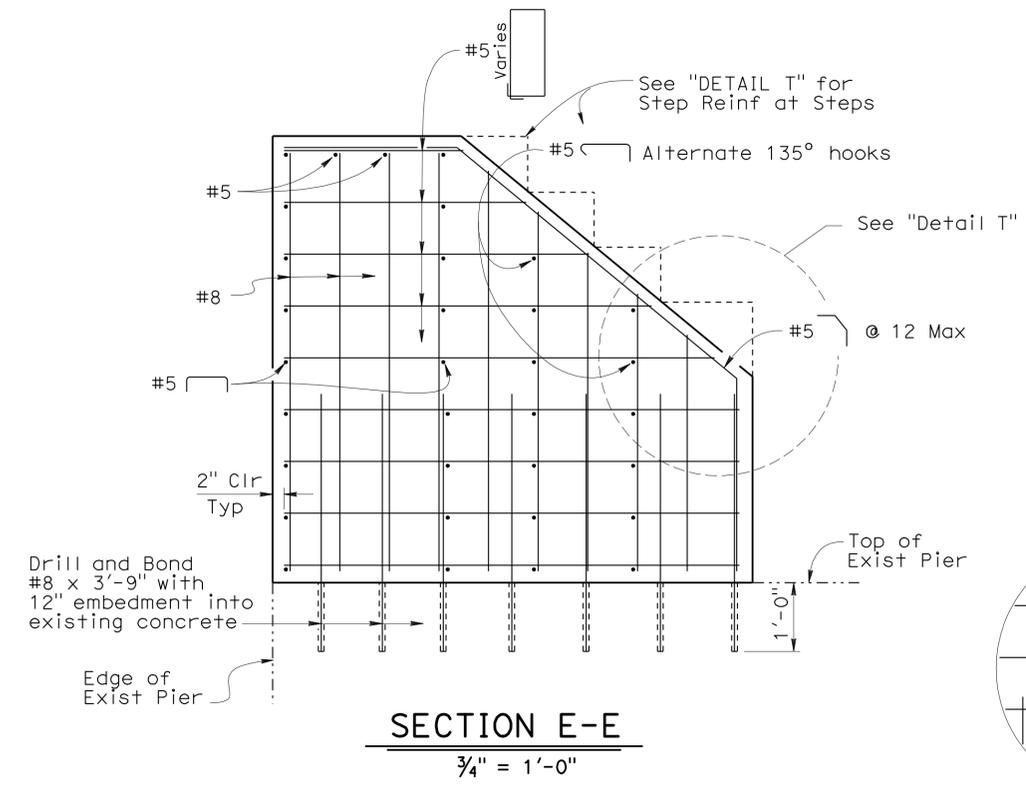
- NOTES:**
1. New pipe railing and ladder details not shown.
 2. For "SECTION G-G", see "PIPE RAILING AND LADDER DETAILS No. 1" sheet.
 3. All new pipe railing and connections shall be galvanized.
 4. Secure Exist chain link railing to Exist post with tension bar, tension bands, top compression pipe and truss rod, see B11-7 End Post



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

DESIGN	BY Jun Ki Jung	CHECKED Eduardo Ortega Jr.	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Gerald Dickerson	CHECKED Eduardo Ortega Jr.			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED Sujun Talukder				

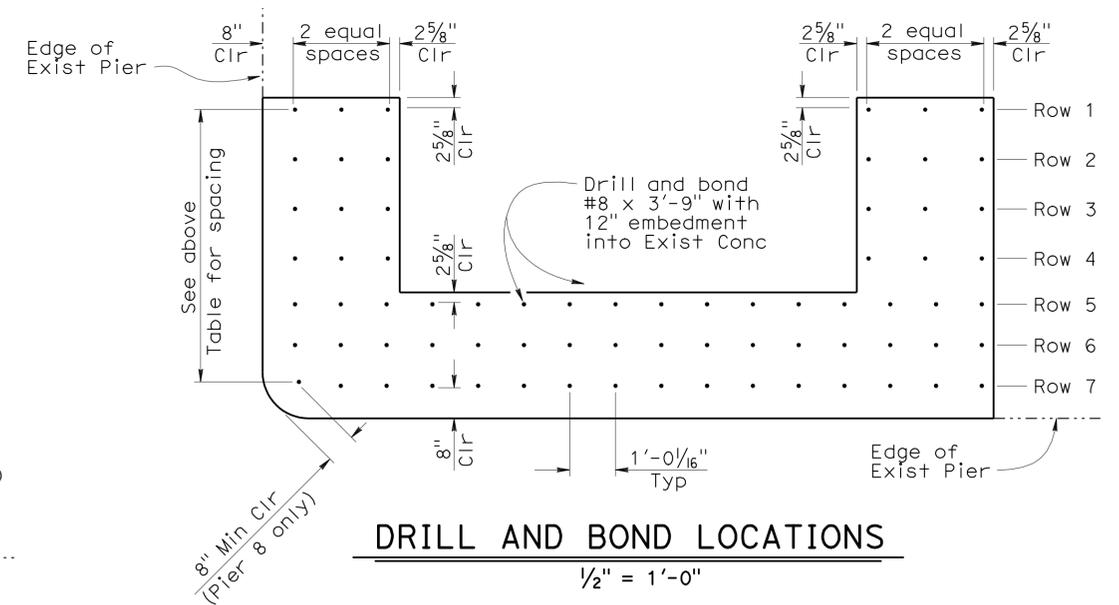
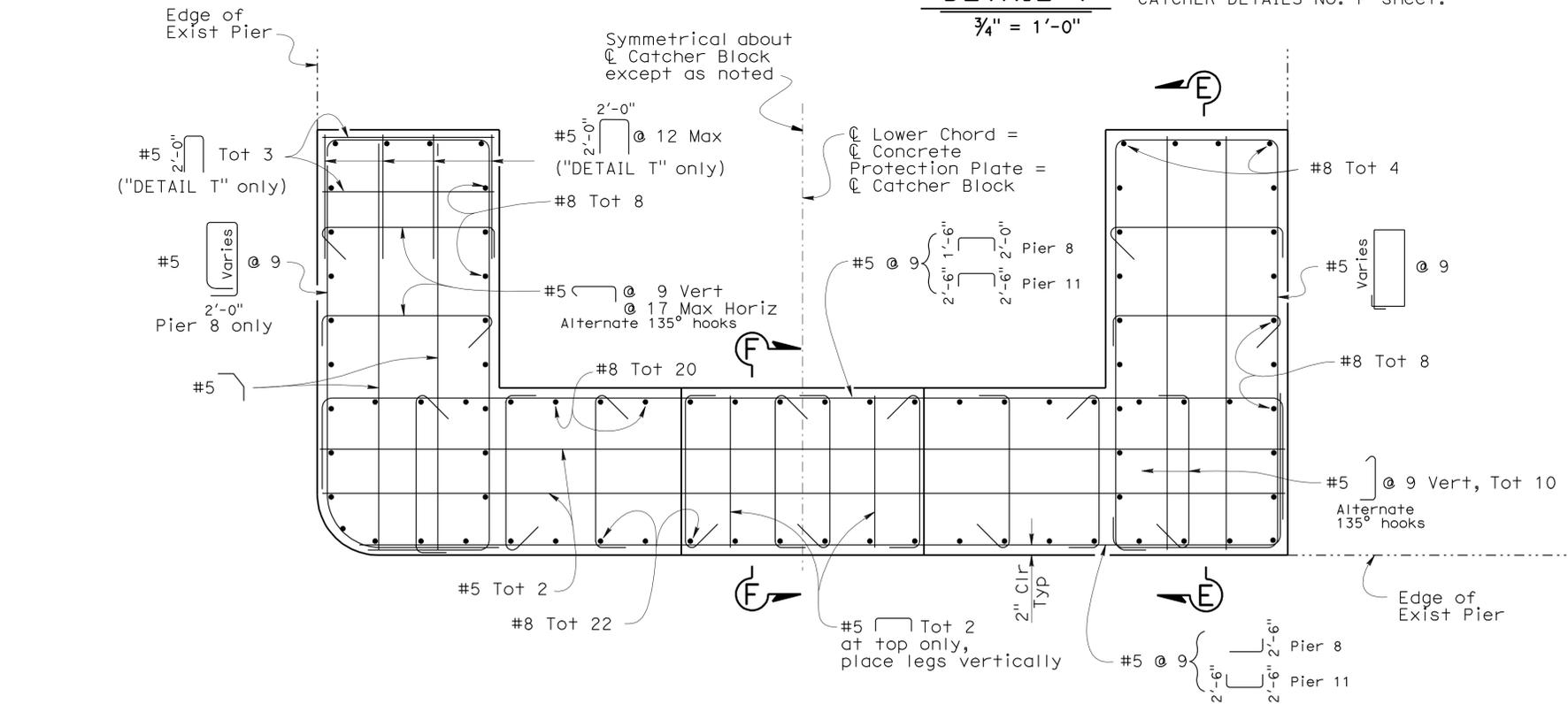
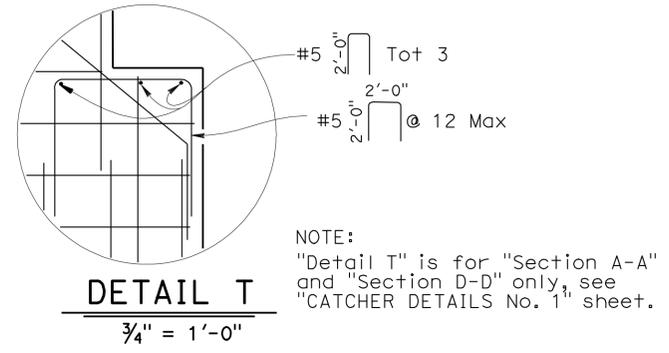
SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS RETROFIT
CATCHER DETAILS No. 1



NOTE:
* W = 2'-9" for Pier 8
= 3'-0" for Pier 11

DRILL AND BOND DOWEL LONGITUDINAL SPACING

Pier 8				Pier 11			
Location	EA	Location	Spacing	Location	EA	Location	Spacing
Row 1	6	Row 1 to Row 2	1'-1"	Row 1	6	Row 1 to Row 2	1'-0"
Row 2	6	2 to 3	1'-1"	Row 2	6	2 to 3	1'-0"
Row 3	6	3 to 4	1'-1"	Row 3	6	3 to 4	1'-0"
Row 4	6	4 to 5	1'-0"	Row 4	6	4 to 5	1'-0"
Row 5	16	5 to 6	11"	Row 5	16	5 to 6	1'-0 7/16"
Row 6	16	6 to 7	11"	Row 6	16	6 to 7	1'-0 7/16"
Row 7	16	-	-	Row 7	16	-	-



NOTES:
1. Pier 8 concrete catcher shown, Pier 11 similar.
2. Holes shall be drilled and reinforcement shall be installed in vertical position.
3. Existing bearing and truss elements are not shown for clarity.

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

LEGEND:
----- Indicates existing

DESIGN	BY Jun Ki Jung	CHECKED Eduardo Ortega Jr.	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Gerald Dickerson	CHECKED Eduardo Ortega Jr.			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED Sujun Talukder			CU 03227 EA 1E5101	UNIT: 3592 PROJECT: 03 0000 0266

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

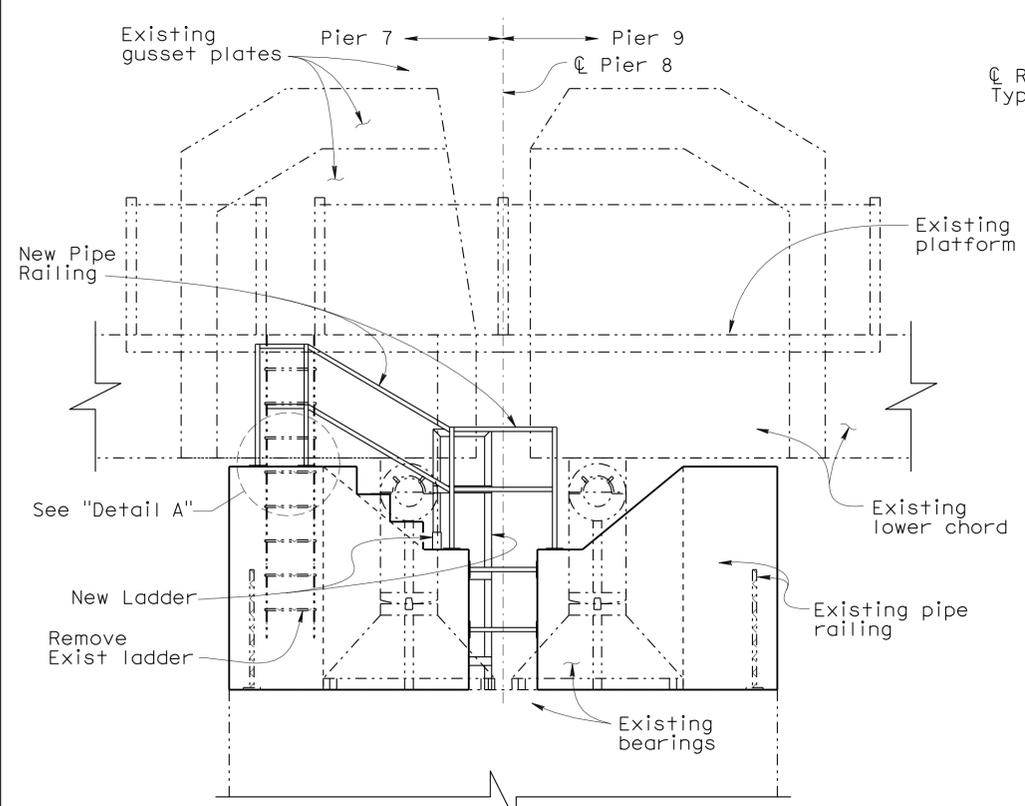
REVISION DATES	SHEET	OF
7-08-11 1-12-11 1-13-11 1-14-11 8-01-11 9-08-11 12-12-11	10	60

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS RETROFIT
CATCHER DETAILS No. 2

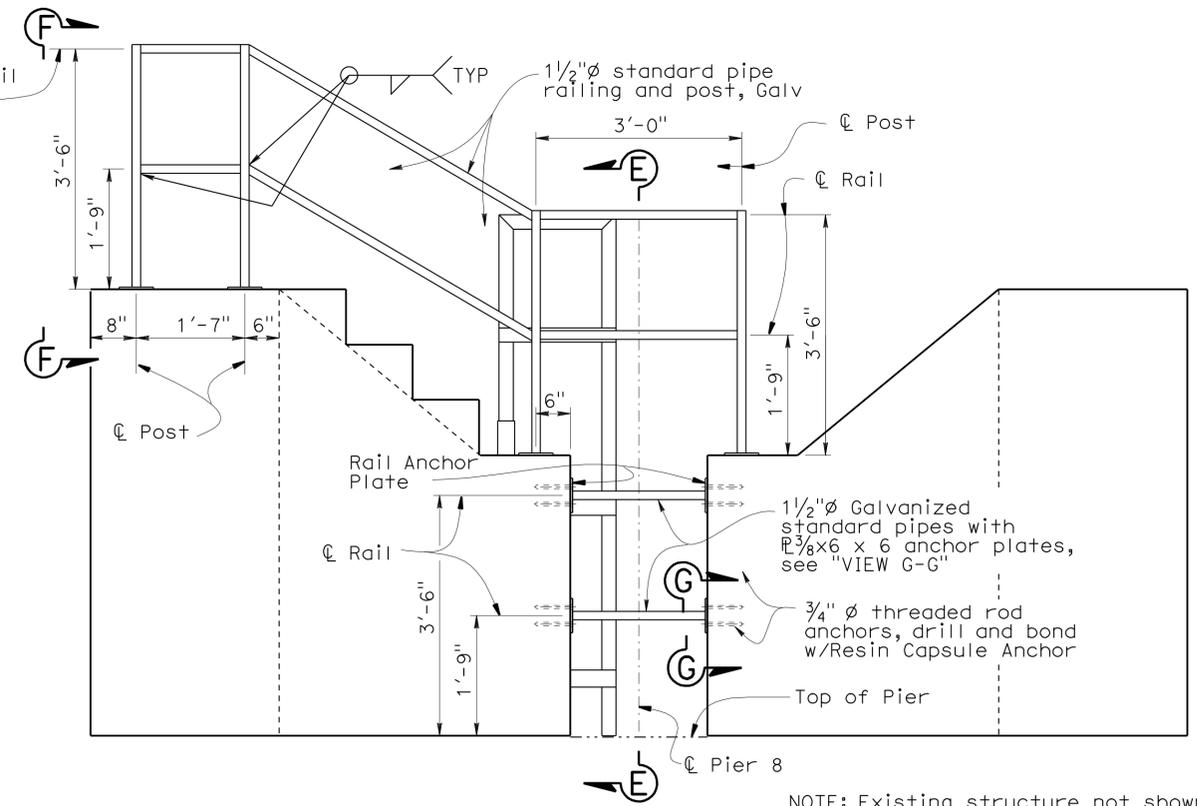
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Butt	70	28.0/29.2	46	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE
 5-21-12
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA



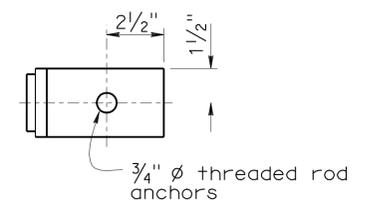
PIPE RAILING & LADDER LAYOUT PIER 8
3/8" = 1'-0"



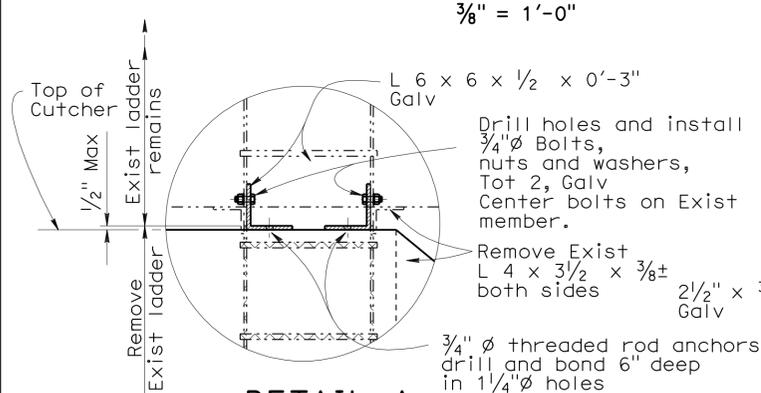
PIPE RAILING & LADDER DETAIL PIER 8
3/4" = 1'-0"

- NOTES:
- For "SECTION F-F" and location of pipe railing posts, see "PIPE RAILING AND LADDER DETAILS No. 2" sheet.
 - For limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge), see "CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" on "INDEX TO PLANS" sheet.

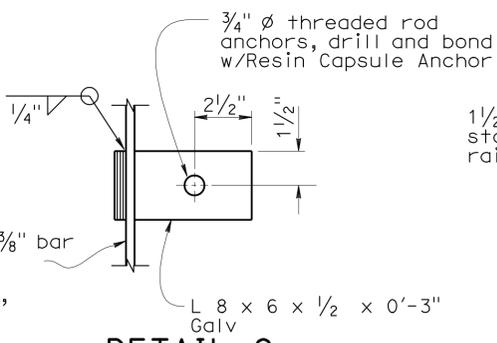
LEGEND:
 - - - - - Indicates existing
 [Hatched Box] Indicates removal



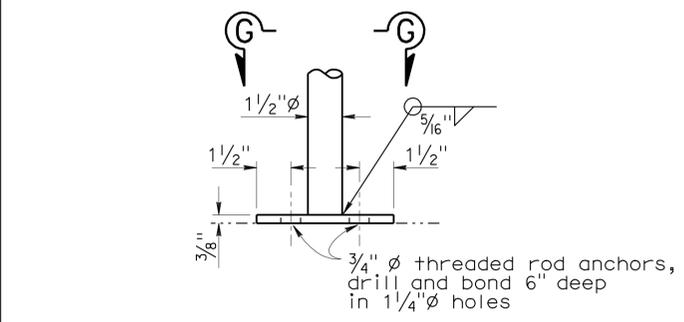
VIEW J-J
3" = 1'-0"



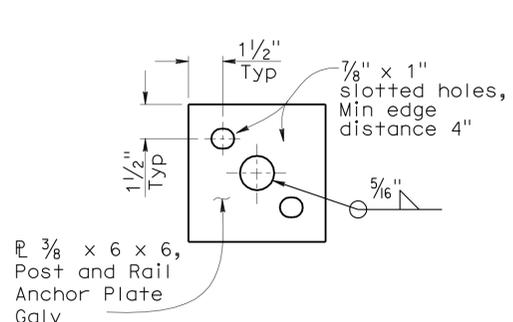
DETAIL A
1" = 1'-0"



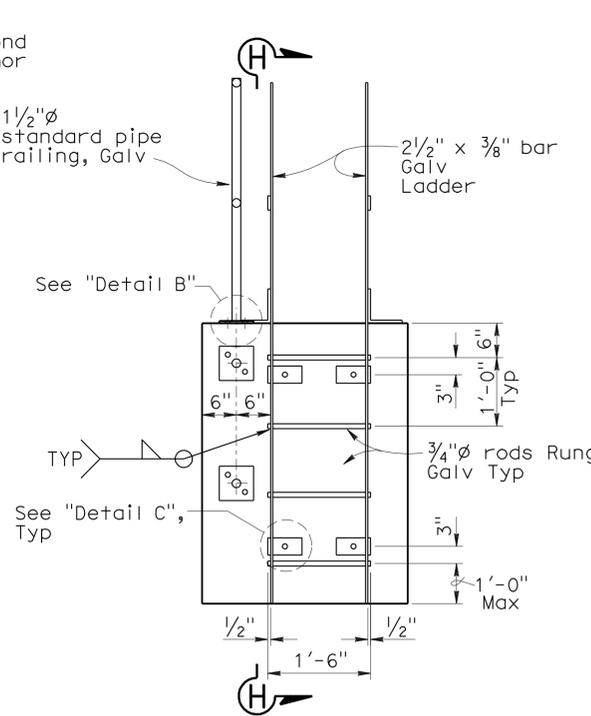
DETAIL C
3" = 1'-0"



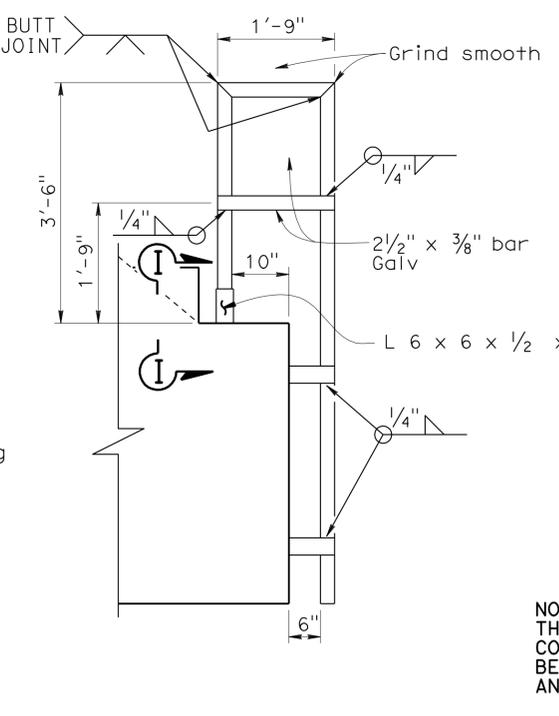
DETAIL B
3" = 1'-0"



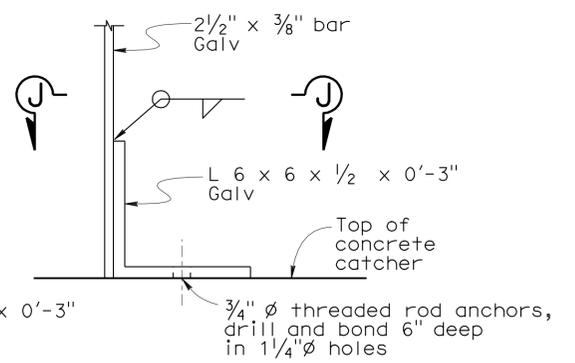
VIEW G-G
3" = 1'-0"



VIEW E-E
3/4" = 1'-0"



VIEW H-H
3/4" = 1'-0"



VIEW I-I
3" = 1'-0"

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

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
TRUSS RETROFIT	
PIPE RAILING AND LADDER DETAILS No. 1	

DESIGN	BY Jun Ki Jung	CHECKED Eduardo Ortega Jr.	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Gerald Dickerson	CHECKED Eduardo Ortega Jr.			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED Sujun Talukder				

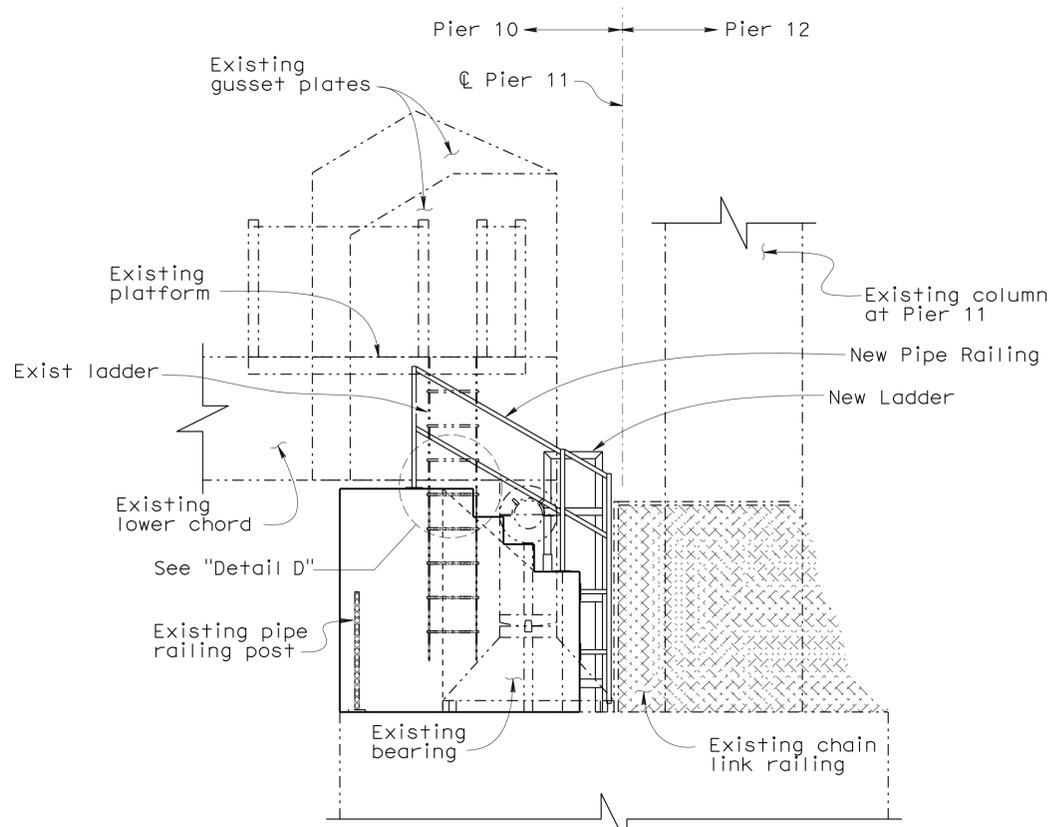
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	47	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE

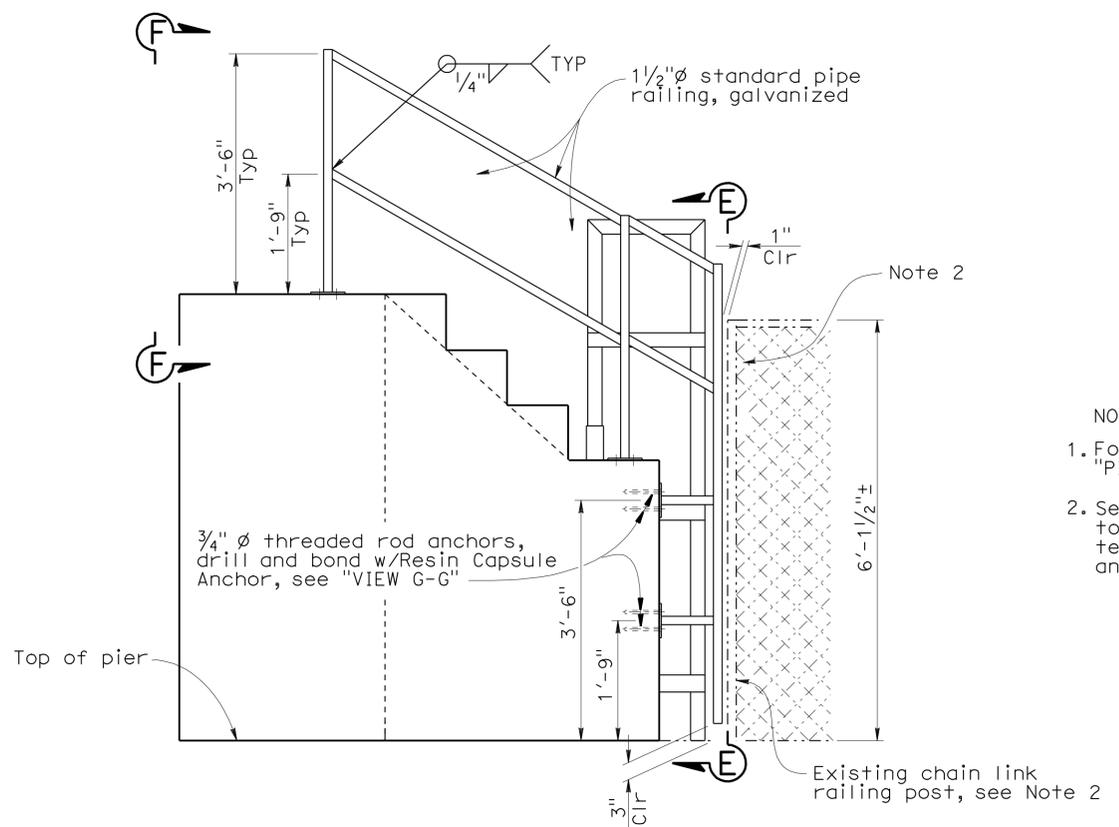
5-21-12
 PLANS APPROVAL DATE

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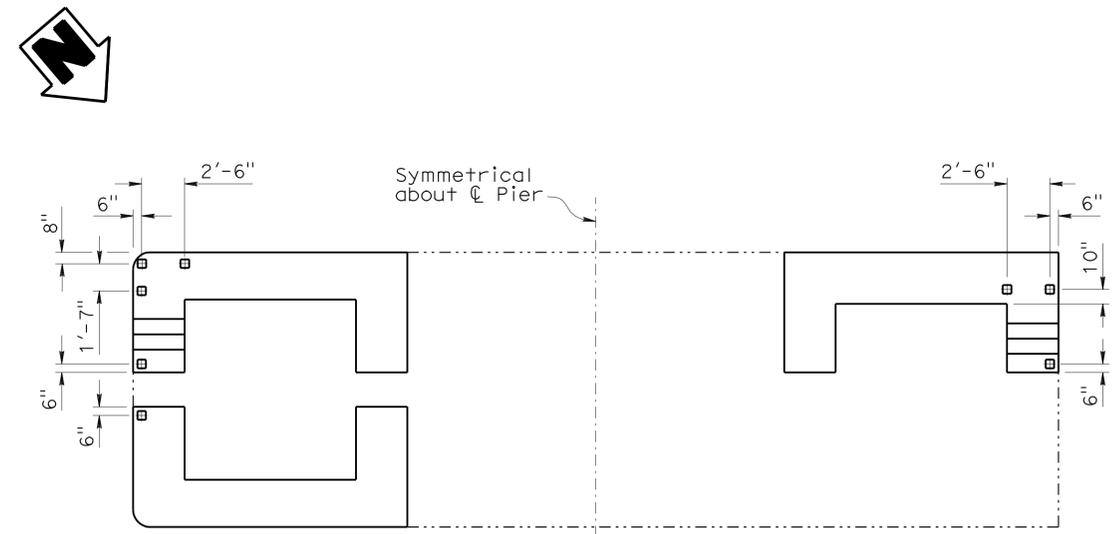
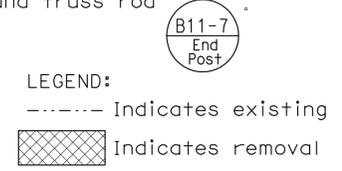


**PIPE RAILING & LADDER LAYOUT
PIER 11**
3/8" = 1'-0"

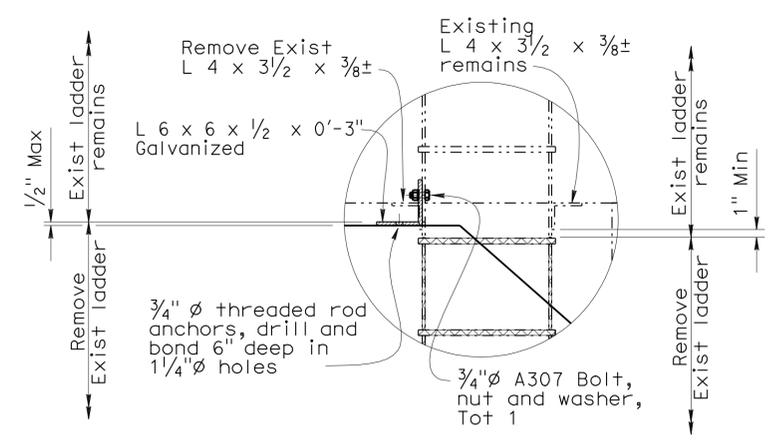


**PIPE RAILING & LADDER DETAIL
PIER 11**
3/4" = 1'-0"

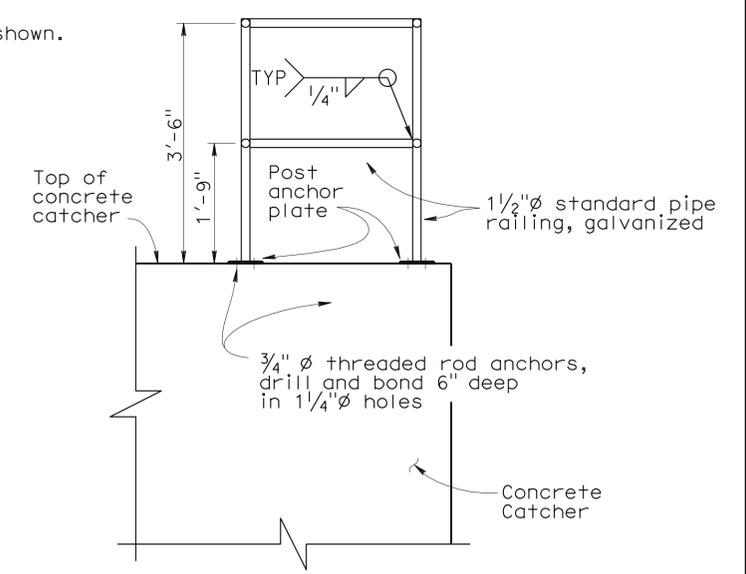
- NOTES:
- For "SECTION E-E" and "VIEW G-G", see "PIPE RAILING AND LADDER DETAILS No. 1" sheet.
 - Secure existing chain link railing to existing post with tension bar, tension bands, top compressing pipe and truss rod



PIER 8 PIER 11
PIPE RAILING POST LOCATION
No Scale



DETAIL D
1" = 1'-0"



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

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

- LEGEND:
 □ Indicates anchor plate, galvanized.
 --- Existing railings and chain link railings not shown.

DESIGN	BY Jun Ki Jung	CHECKED Eduardo Ortega Jr.
DETAILS	BY Gerald Dickerson	CHECKED Eduardo Ortega Jr.
QUANTITIES	BY Jun Ki Jung	CHECKED Sujan Talukder

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS RETROFIT
PIPE RAILING AND LADDER DETAILS No. 2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

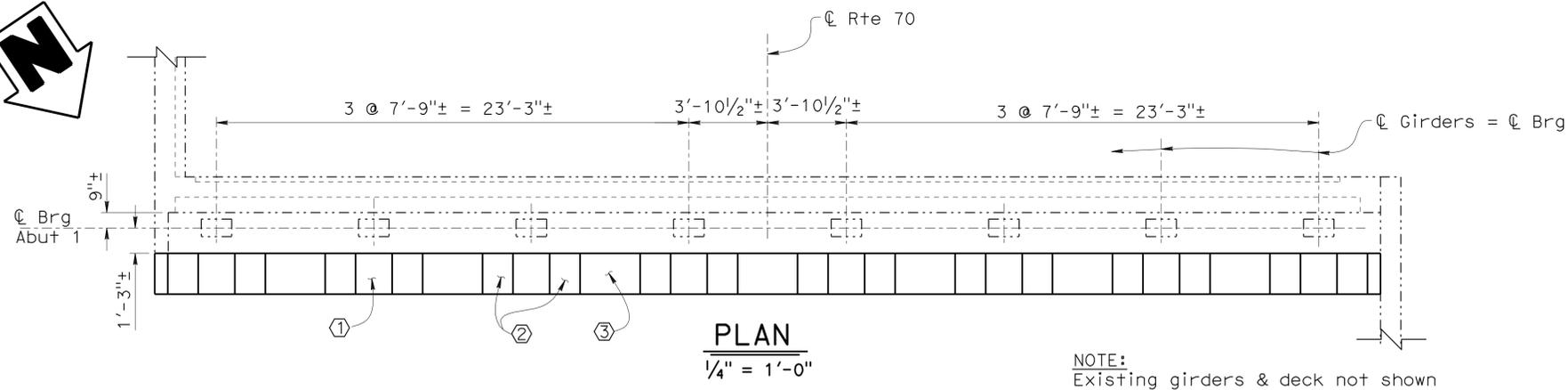
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	7-13-11	7-14-11	7-19-11	8-01-11	9-06-11	12-10-11
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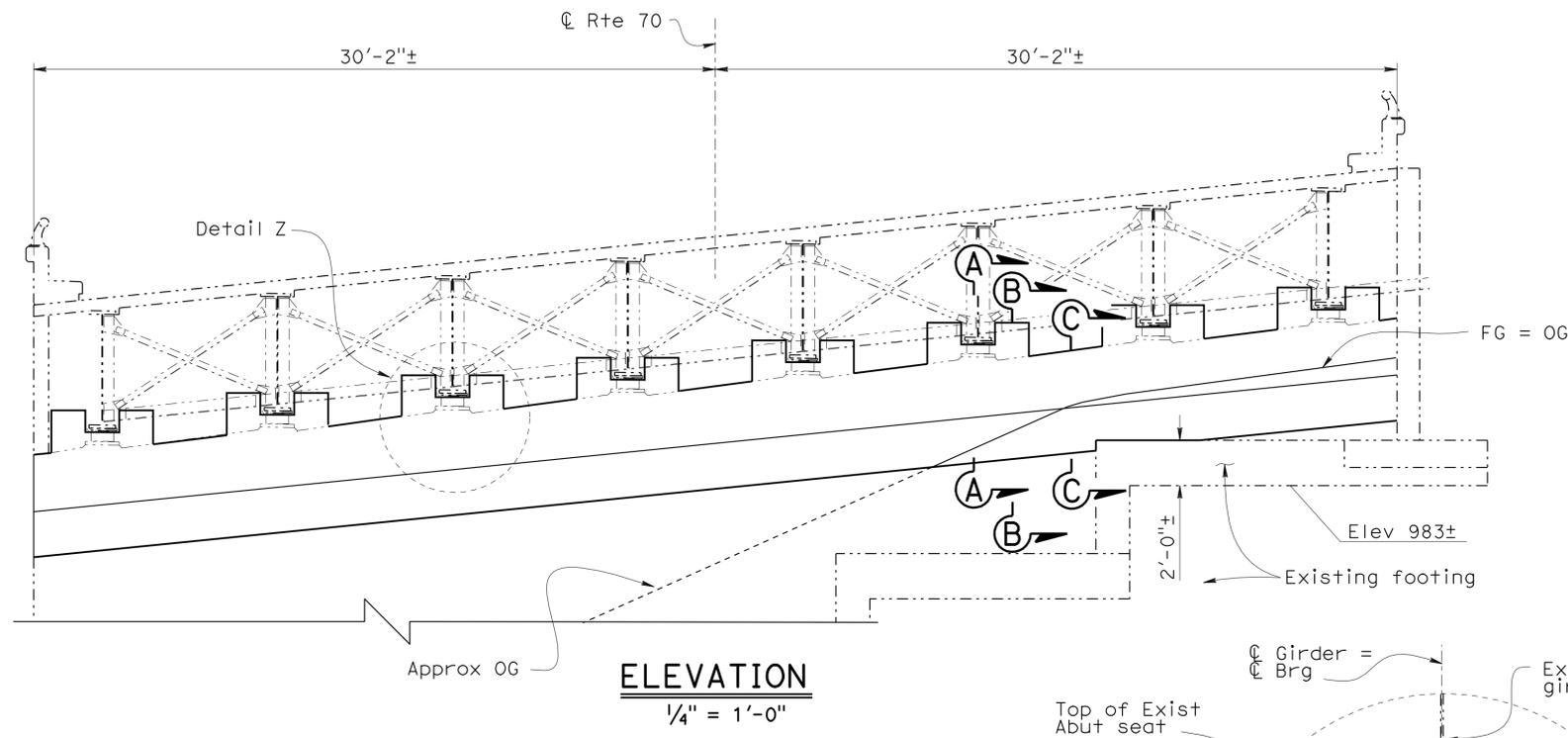
SHEET 12 OF 60



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	48	95
David Soon 1-6-12 REGISTERED CIVIL ENGINEER DATE					
5-21-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



NOTE:
Existing girders & deck not shown

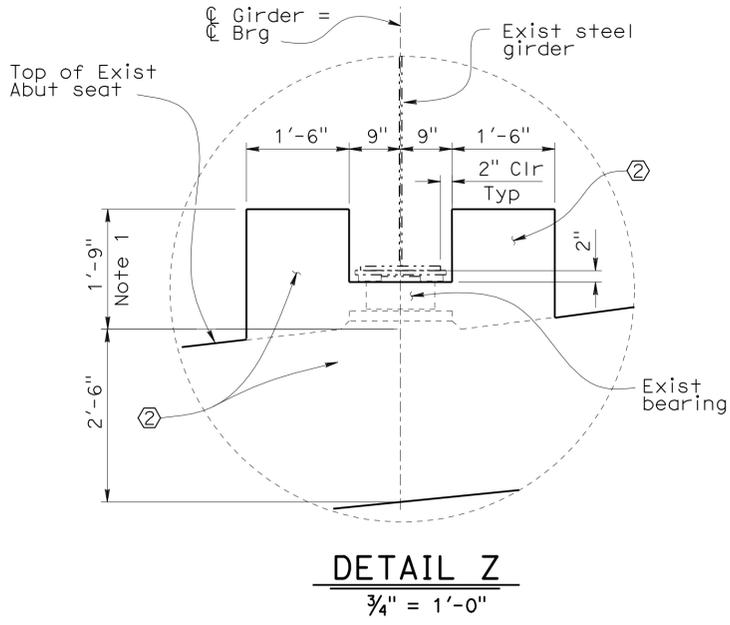


ELEVATION
1/4" = 1'-0"

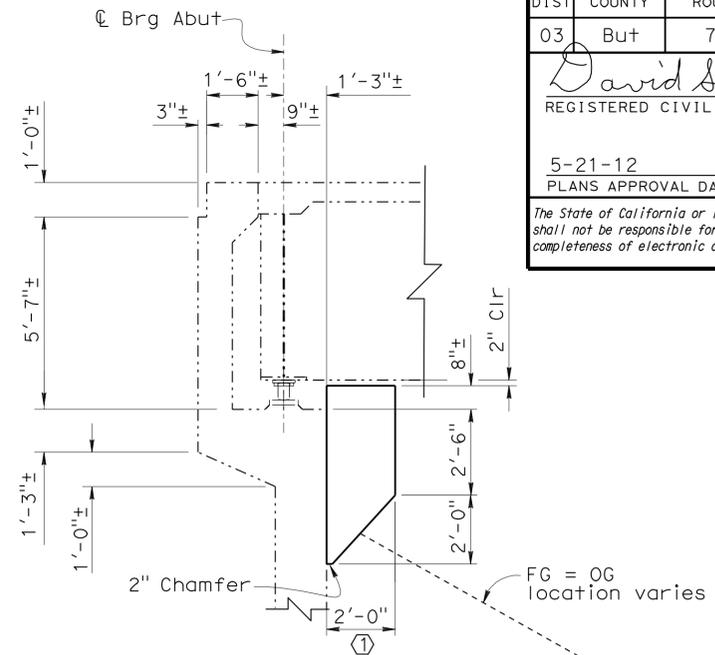
NOTE:
1. Measured along ϕ girder

- LEGEND:
- ① Girder catcher / Abut seat extension
 - ② Girder limit block
 - ③ Abut seat extension
- Indicates existing

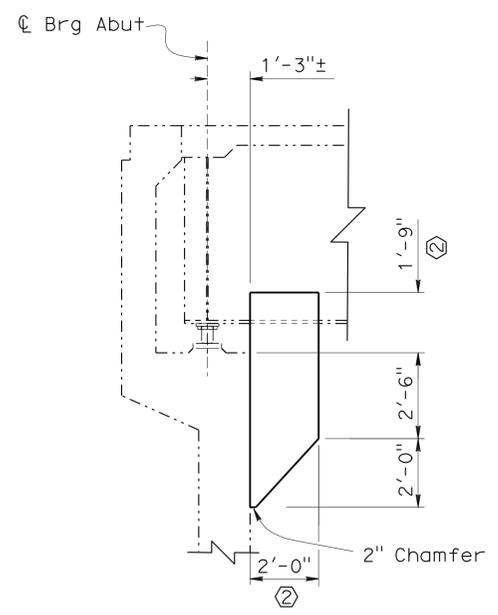
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



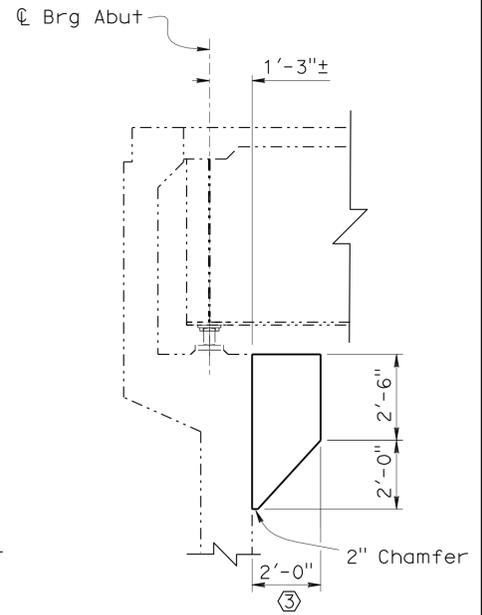
DETAIL Z
3/4" = 1'-0"



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



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



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

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
APPROACH RETROFIT	
ABUTMENT 1 LAYOUT	

DESIGN	BY David Soon	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY Jun Ki Jung	CHECKED E.Ortega Jr./D. Desai

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. 12-0134
	DESIGN BRANCH 7	POST MILE 28.2

CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 13 OF 60
	4-5-10 5-24-10 12-10-11	

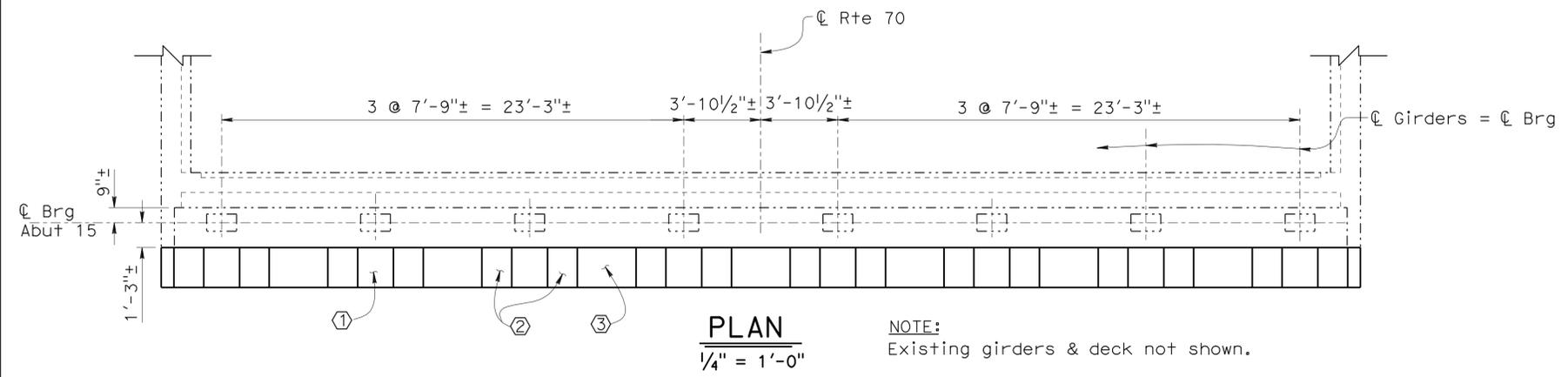
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	49	95

David Soon 1-6-12
REGISTERED CIVIL ENGINEER DATE

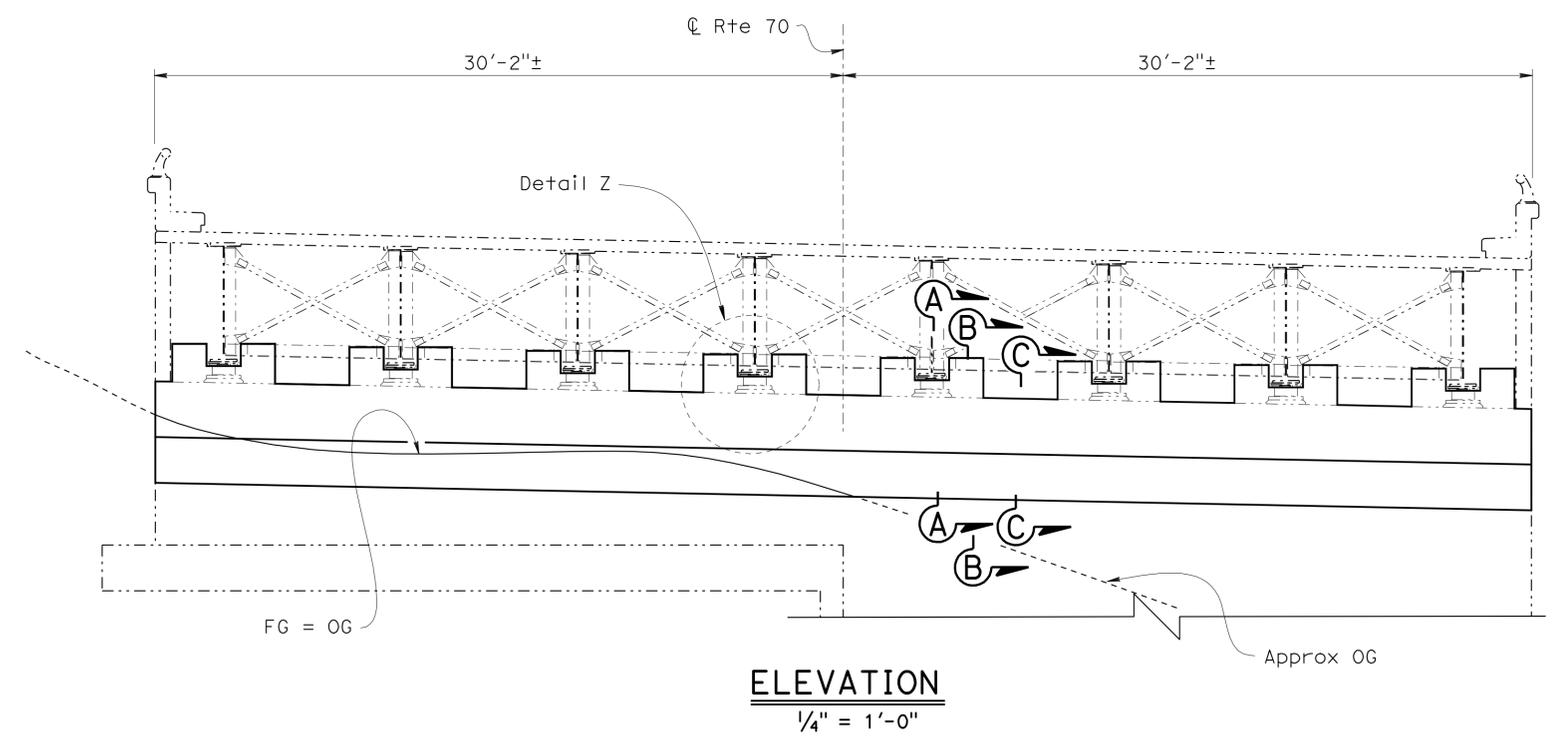
5-21-12
PLANS APPROVAL DATE

David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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



PLAN
1/4" = 1'-0"
NOTE:
Existing girders & deck not shown.



ELEVATION
1/4" = 1'-0"

- LEGEND:**
- ① Girder catcher / Abut seat extension
 - ② Girder limit block
 - ③ Abut seat extension
 - Indicates existing

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

NOTE:
For "SECTION A-A, B-B, C-C" and "Detail Z", see "ABUTMENT 1 LAYOUT" sheet.

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
APPROACH RETROFIT
ABUTMENT 15 LAYOUT

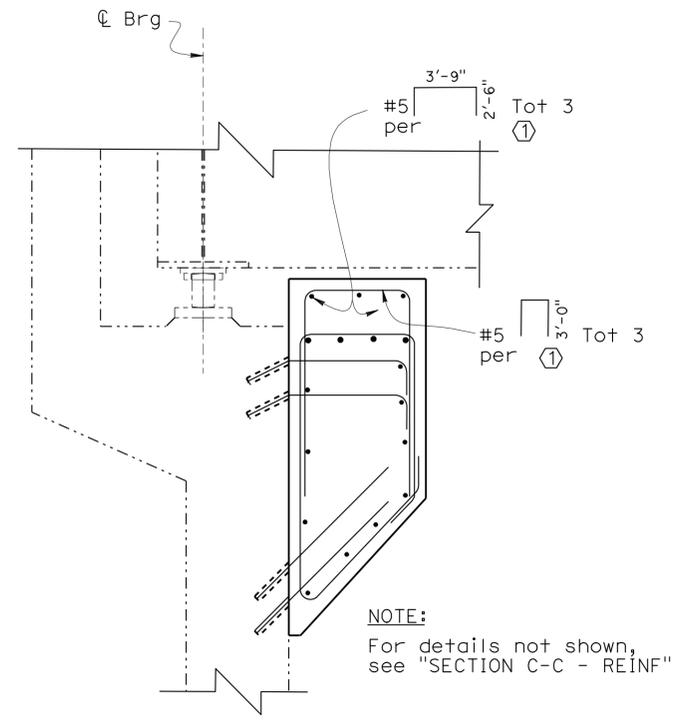
DESIGN	BY David Soon	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

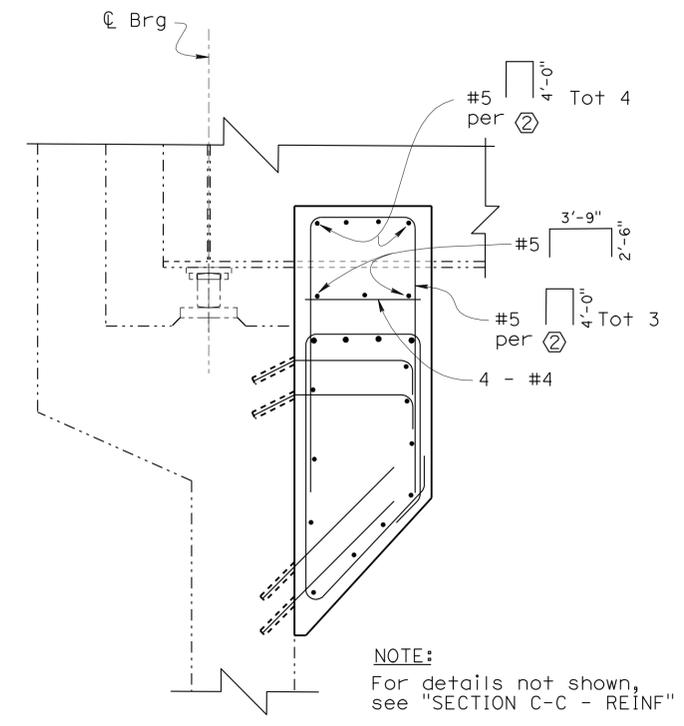
BRIDGE NO.	12-0134
POST MILE	28.2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	50	95
David Soon 1-6-12 REGISTERED CIVIL ENGINEER DATE					
5-21-12				PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



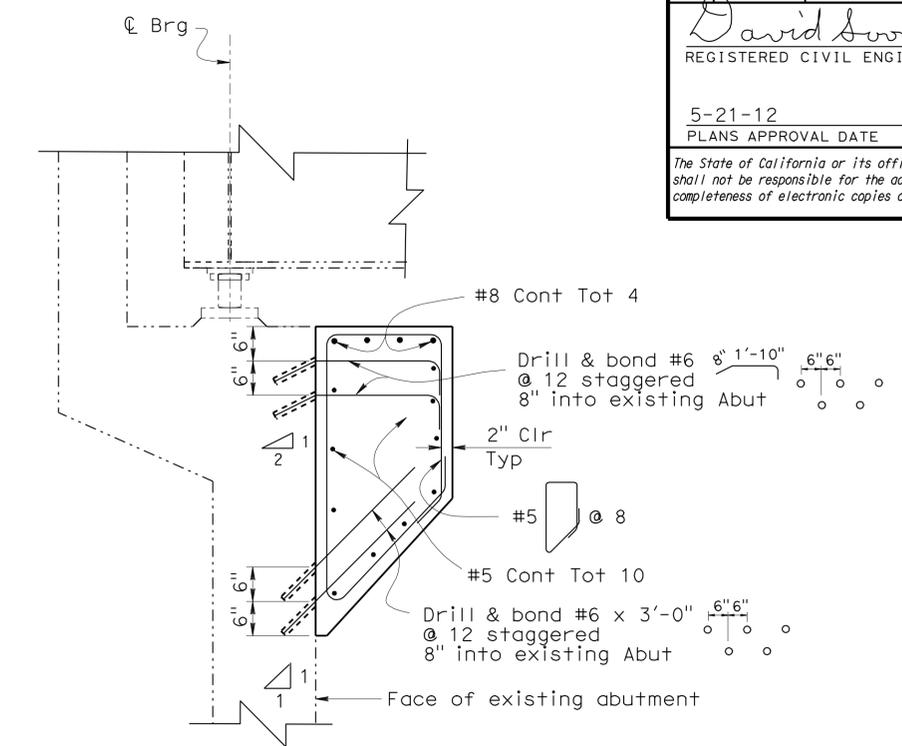
NOTE:
For details not shown,
see "SECTION C-C - REINF"

**SECTION A-A - REINFORCEMENT
ABUTMENTS 1 & 15**
3/4" = 1'-0"

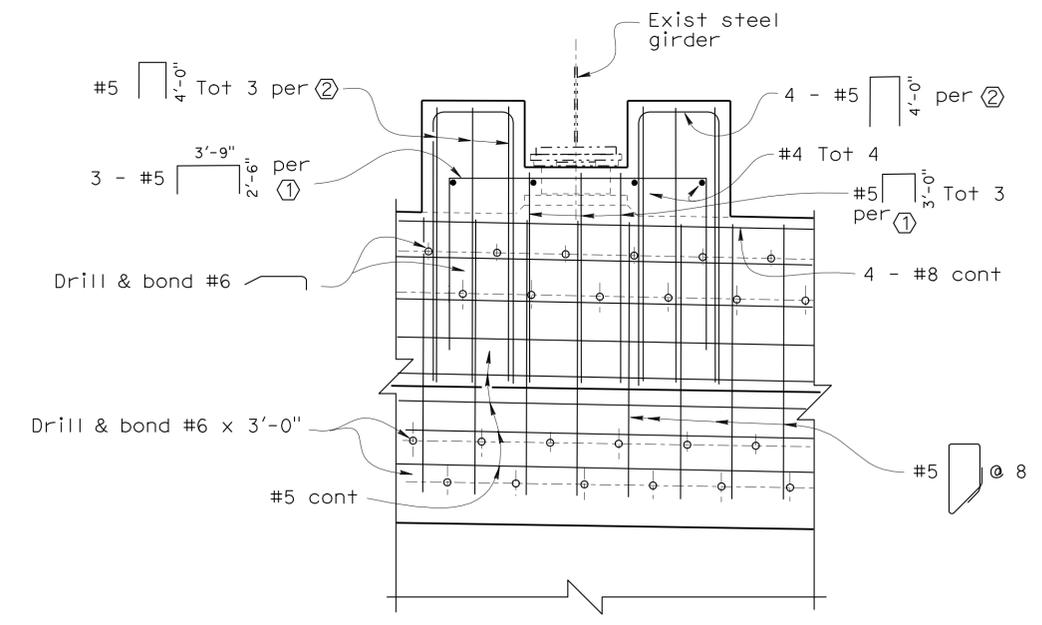


NOTE:
For details not shown,
see "SECTION C-C - REINF"

**SECTION B-B - REINFORCEMENT
ABUTMENTS 1 & 15**
3/4" = 1'-0"



**SECTION C-C - REINFORCEMENT
ABUTMENTS 1 & 15**
3/4" = 1'-0"



**DETAIL Z - REINFORCEMENT
ABUTMENTS 1 & 15**
3/4" = 1'-0"

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

- LEGEND:**
- ① Girder catcher / Abut seat extension.
 - ② Girder limit block
 - Indicates existing
- NOTE:**
- For locations of SECTION A-A, B-B AND C-C, see "ABUTMENT 1 LAYOUT" and "ABUTMENT 15 LAYOUT" sheets.

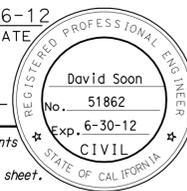
SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
APPROACH RETROFIT	
ABUTMENT DETAILS	

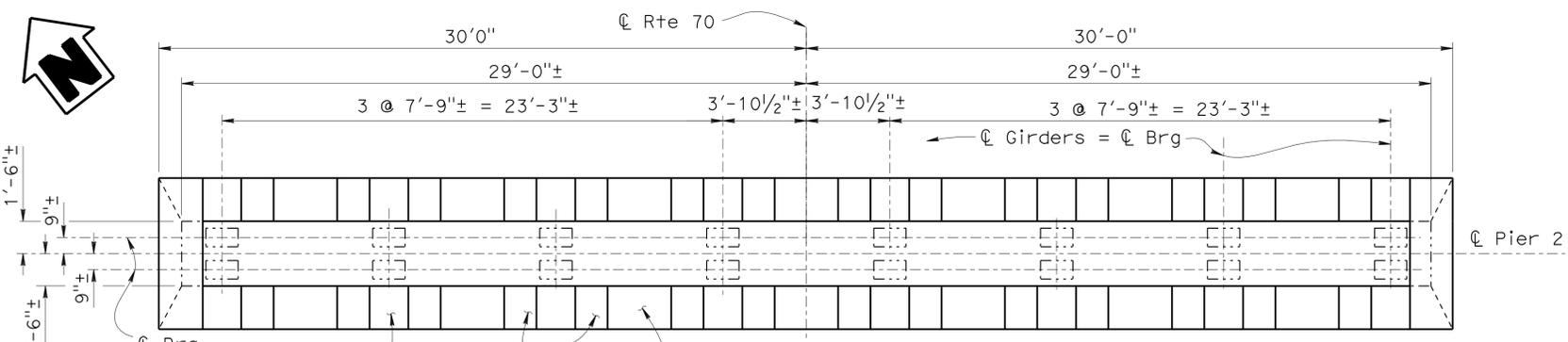
DESIGN	BY David Soon	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

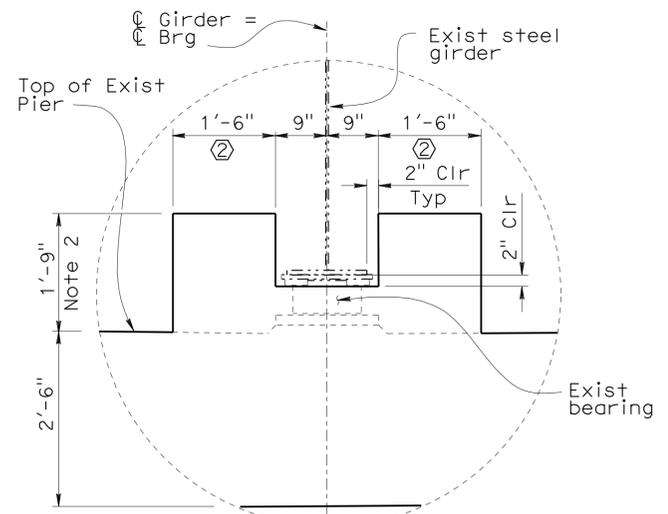
BRIDGE NO.	12-0134
POST MILE	28.2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	51	95
David Soon 1-6-12 REGISTERED CIVIL ENGINEER DATE					
5-21-12 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.					



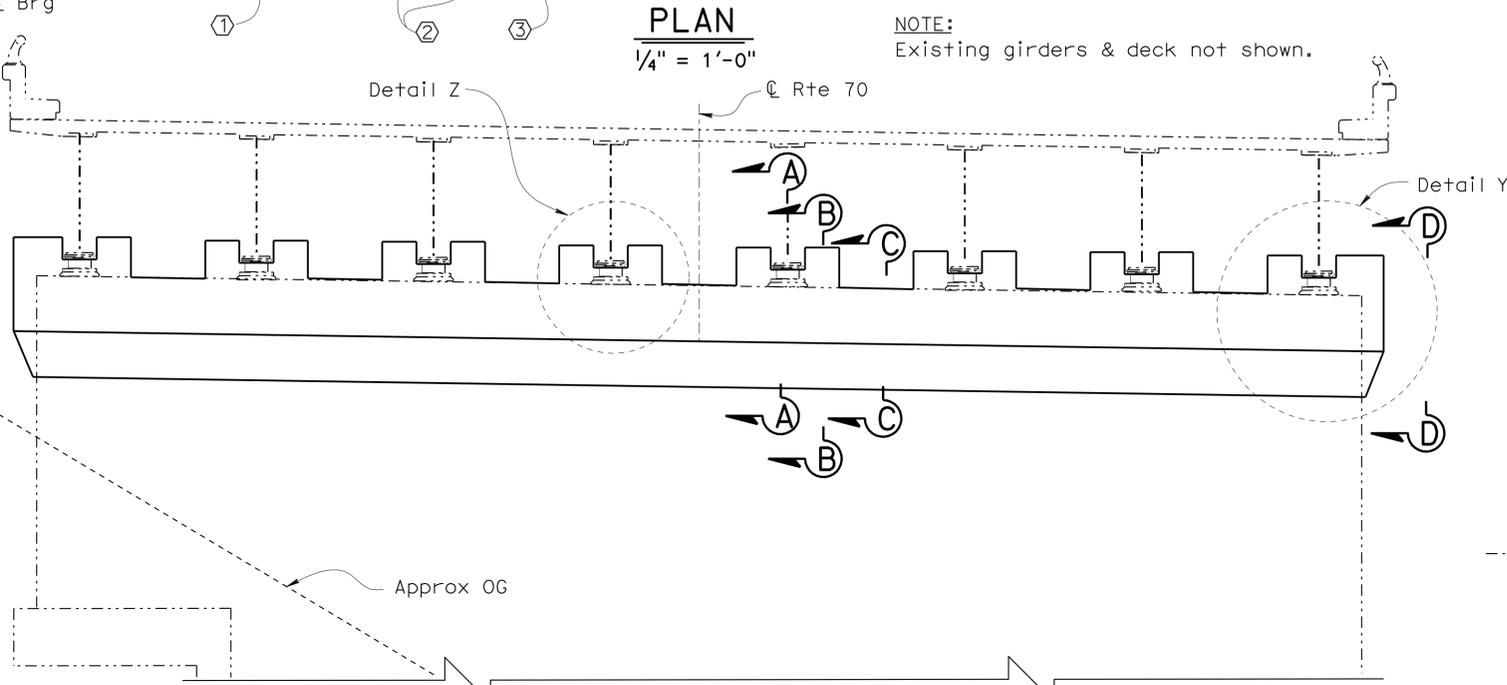
PLAN
1/4" = 1'-0"

NOTE:
Existing girders & deck not shown.

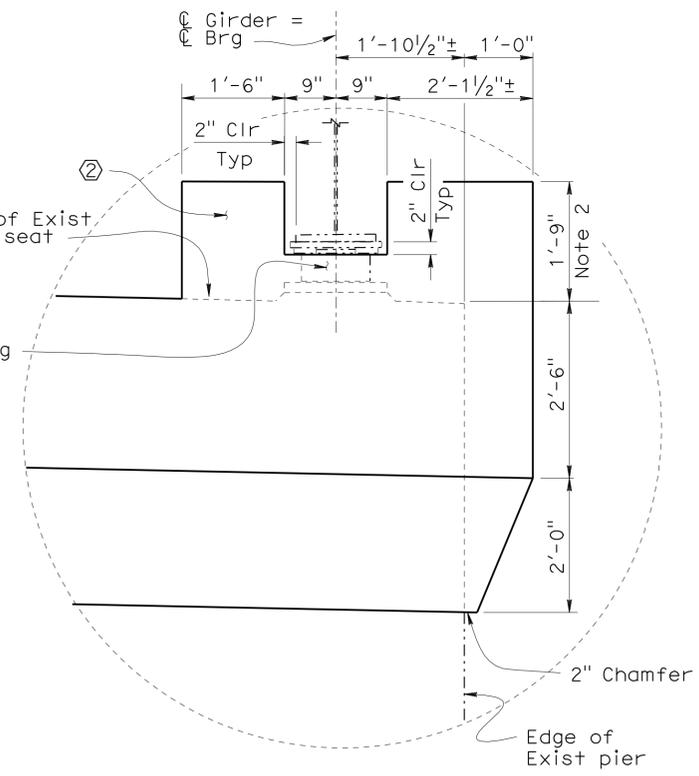


DETAIL Z
3/4" = 1'-0"

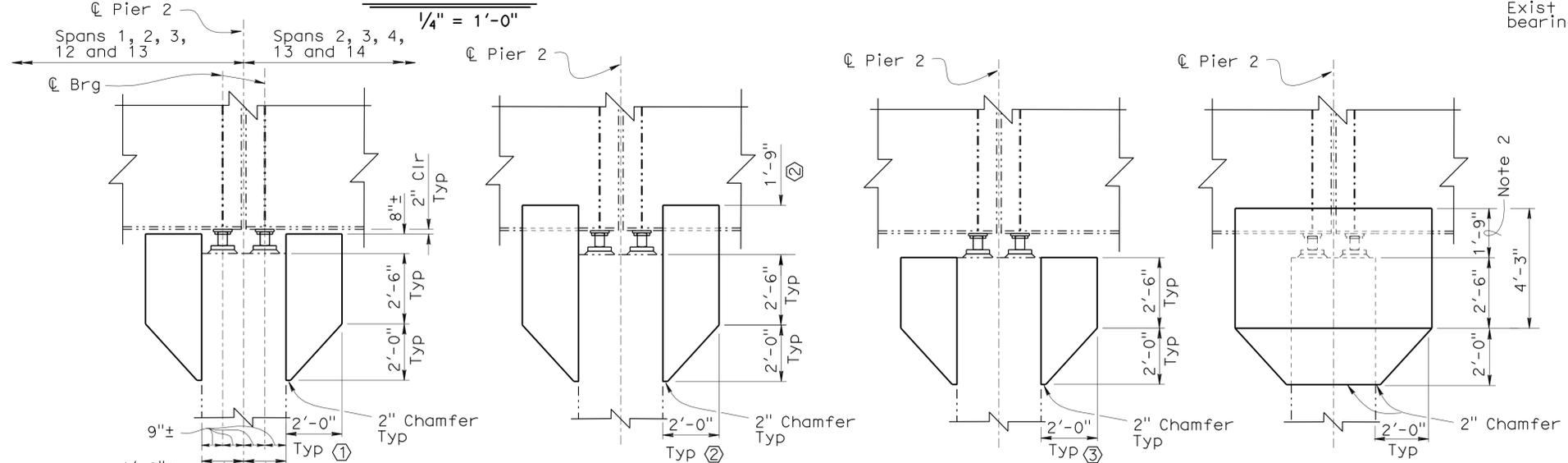
- NOTES:
- Pier 2 shown, Piers 3, 4, 13 & 14 similar.
 - Measured along centerline of girder.
- LEGEND:
- ① Girder catcher / Pier seat extension.
 - ② Girder limit block
 - ③ Pier seat extension
 - Indicates existing



ELEVATION
1/4" = 1'-0"



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



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

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

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

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

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

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
APPROACH RETROFIT	
PIERS 2, 3, 4, 13 AND 14 LAYOUT	

DESIGN	BY David Soon	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.
DEPARTMENT OF TRANSPORTATION	STRUCTURE DESIGN	12-0134
DESIGN BRANCH 7		POST MILE
		28.2

CU 03227	UNIT: 3592	DISREGARD PRINTS BEARING EARLIER REVISION DATES
EA 1E5101	PROJECT: 03 0000 0266	REVISION DATES
		11-10 12-11 12-10-11
		SHEET 16 OF 60

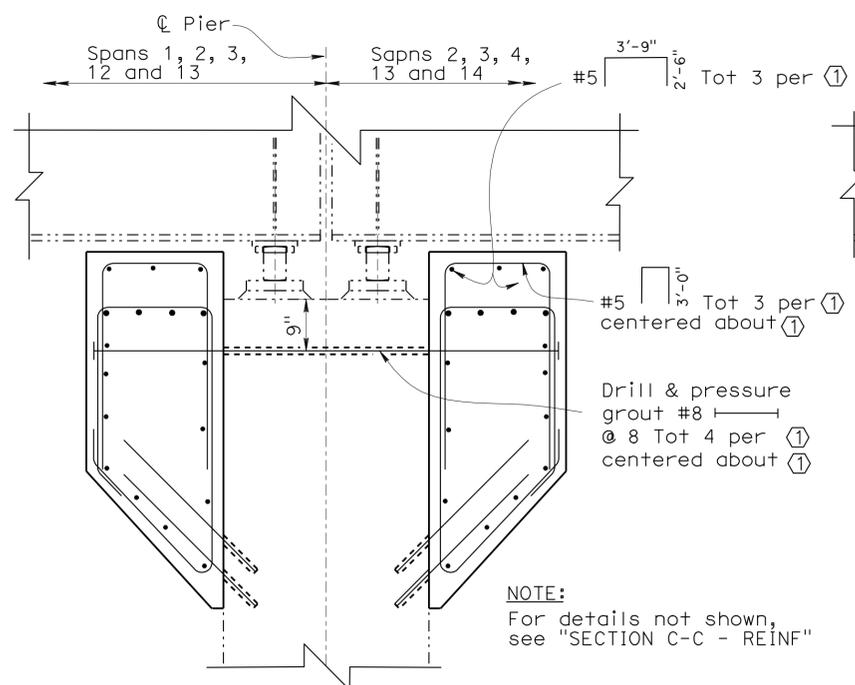
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	52	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE

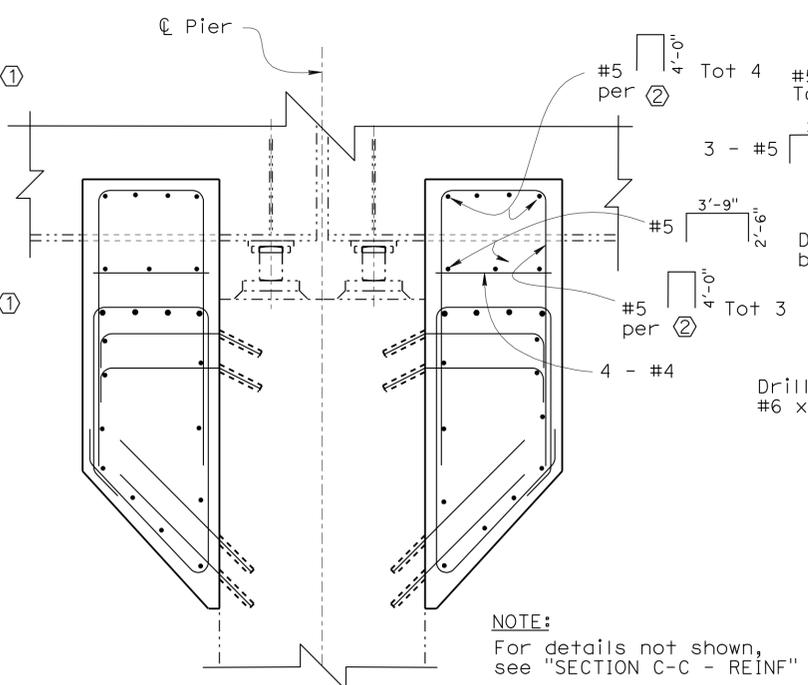
5-21-12
 PLANS APPROVAL DATE

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

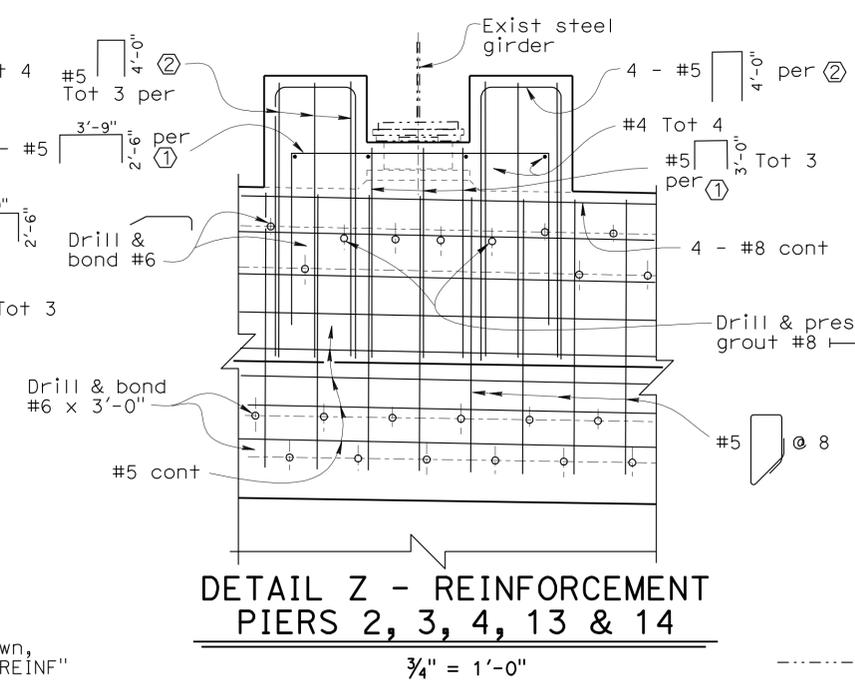
REGISTERED PROFESSIONAL ENGINEER
 David Soon
 No. 51862
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



**SECTION A-A - REINFORCEMENT
PIERS 2, 3, 4, 13 & 14**



**SECTION B-B - REINFORCEMENT
PIERS 2, 3, 4, 13 & 14**

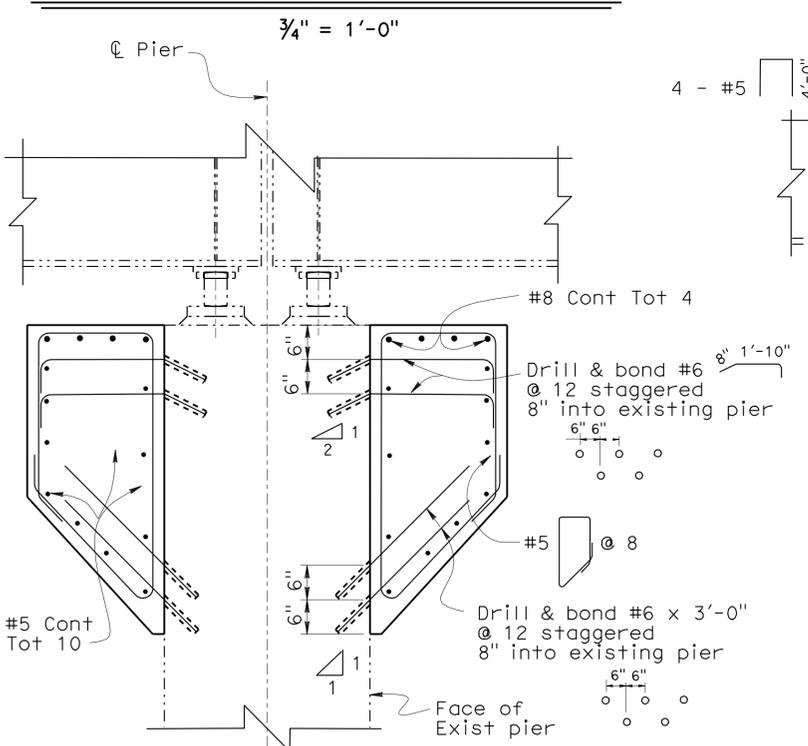


**DETAIL Z - REINFORCEMENT
PIERS 2, 3, 4, 13 & 14**

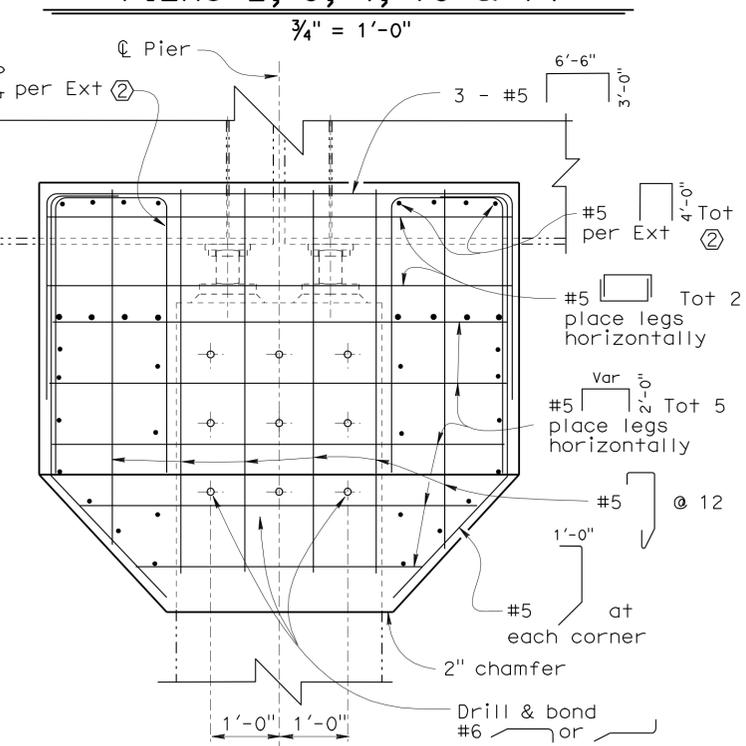
NOTE:
1. Pier 2 shown, Piers 3, 4, 13 and 14 similar.

LEGEND:
 ① Girder catcher / Pier seat extension.
 ② Girder limit block

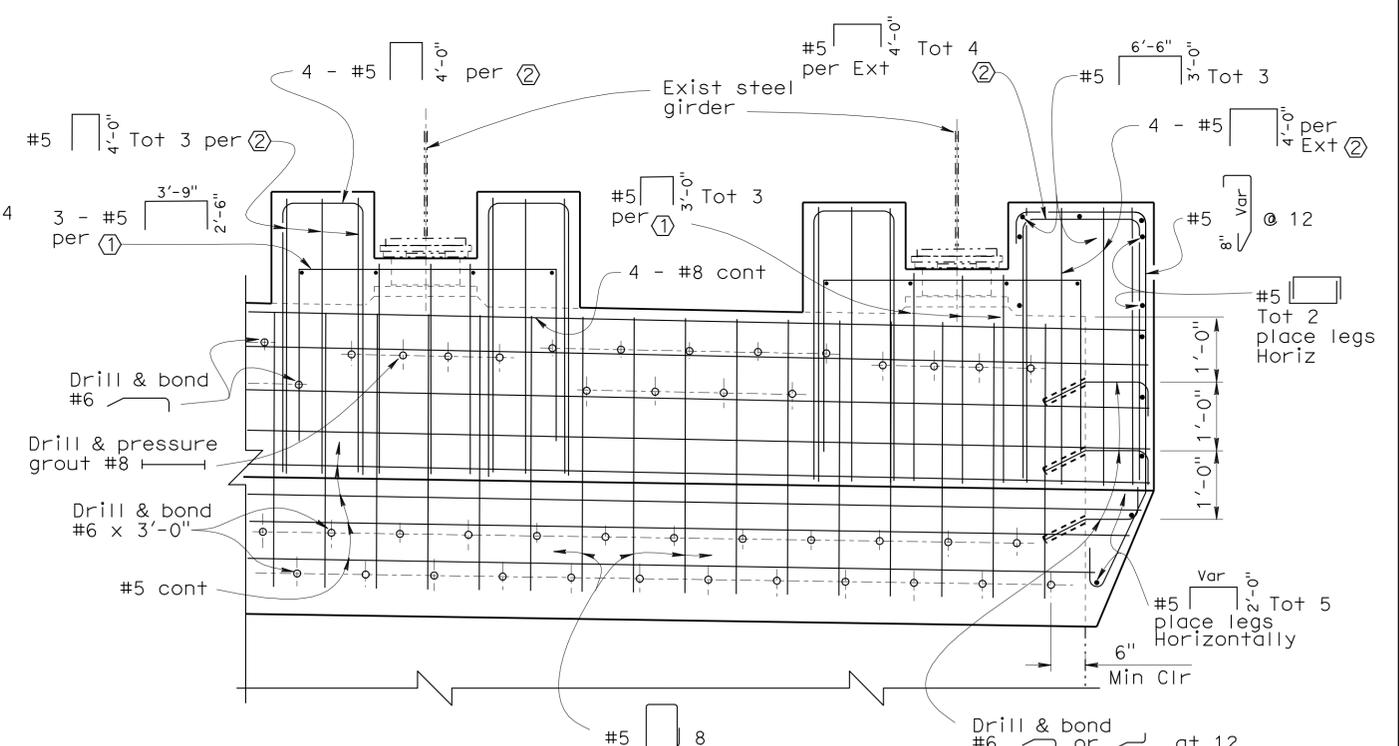
----- Indicates existing
 ——— Indicates headed bar reinforcement (both ends)



**SECTION C-C - REINFORCEMENT
PIERS 2, 3, 4, 13 & 14**



**VIEW D-D - REINFORCEMENT
PIERS 2, 3, 4, 13 & 14**



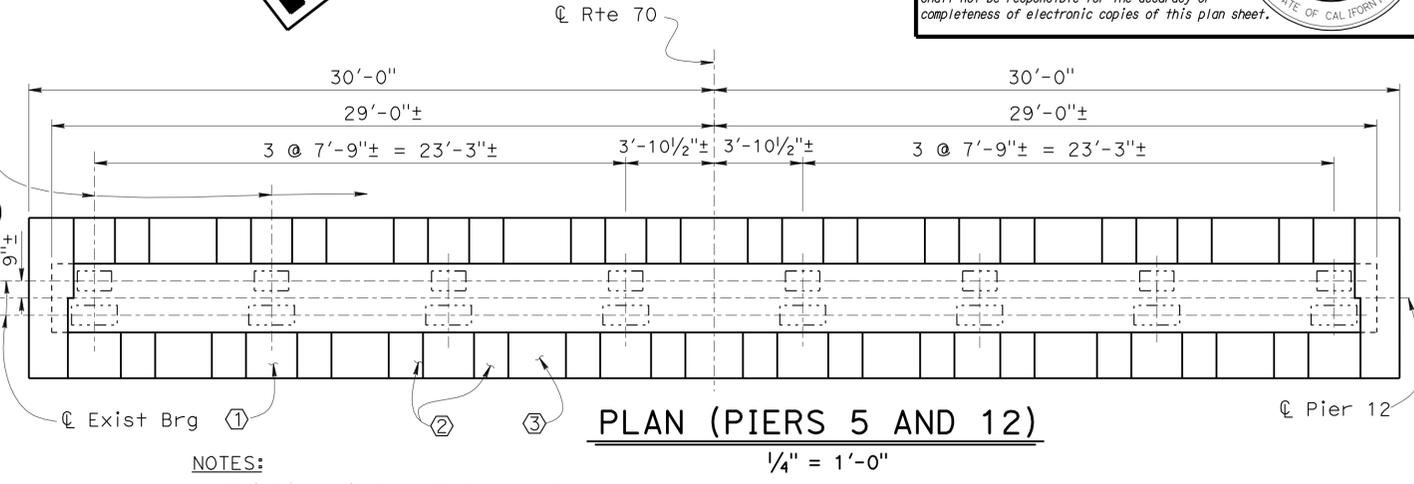
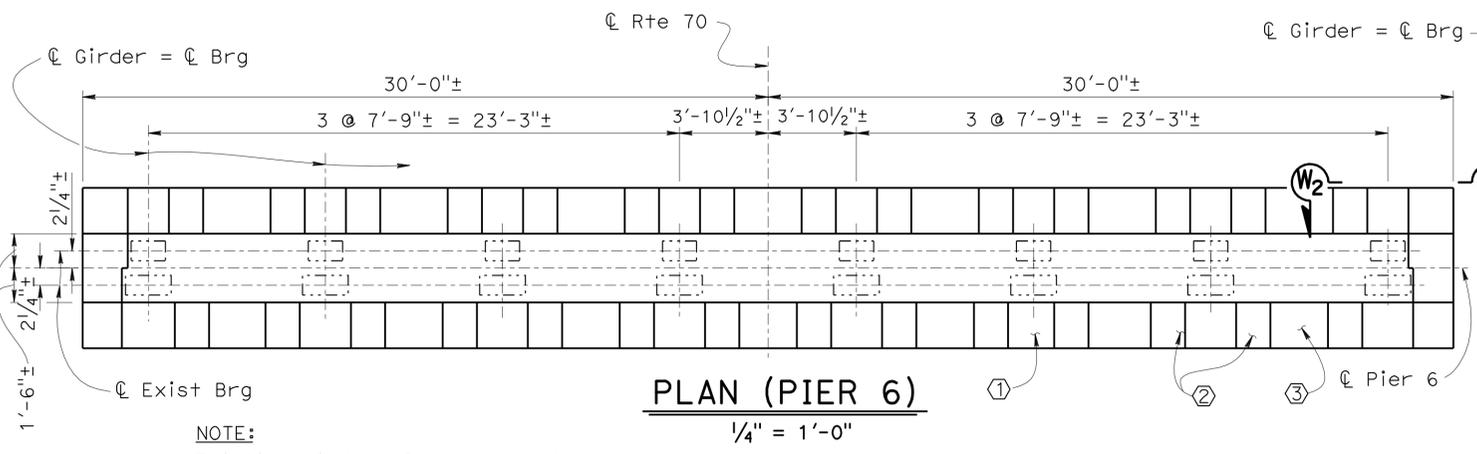
**DETAIL Y - REINFORCEMENT
PIERS 2, 3, 4, 13 & 14**

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

DESIGN	BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai				

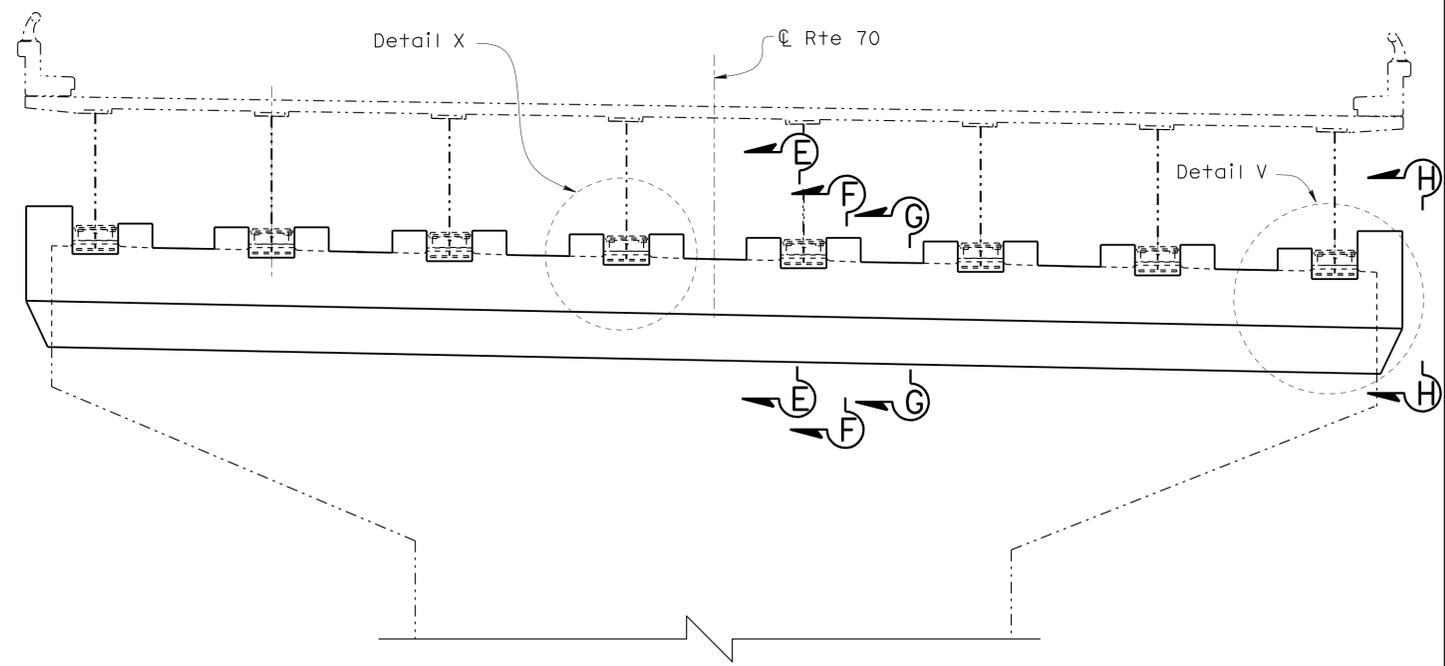
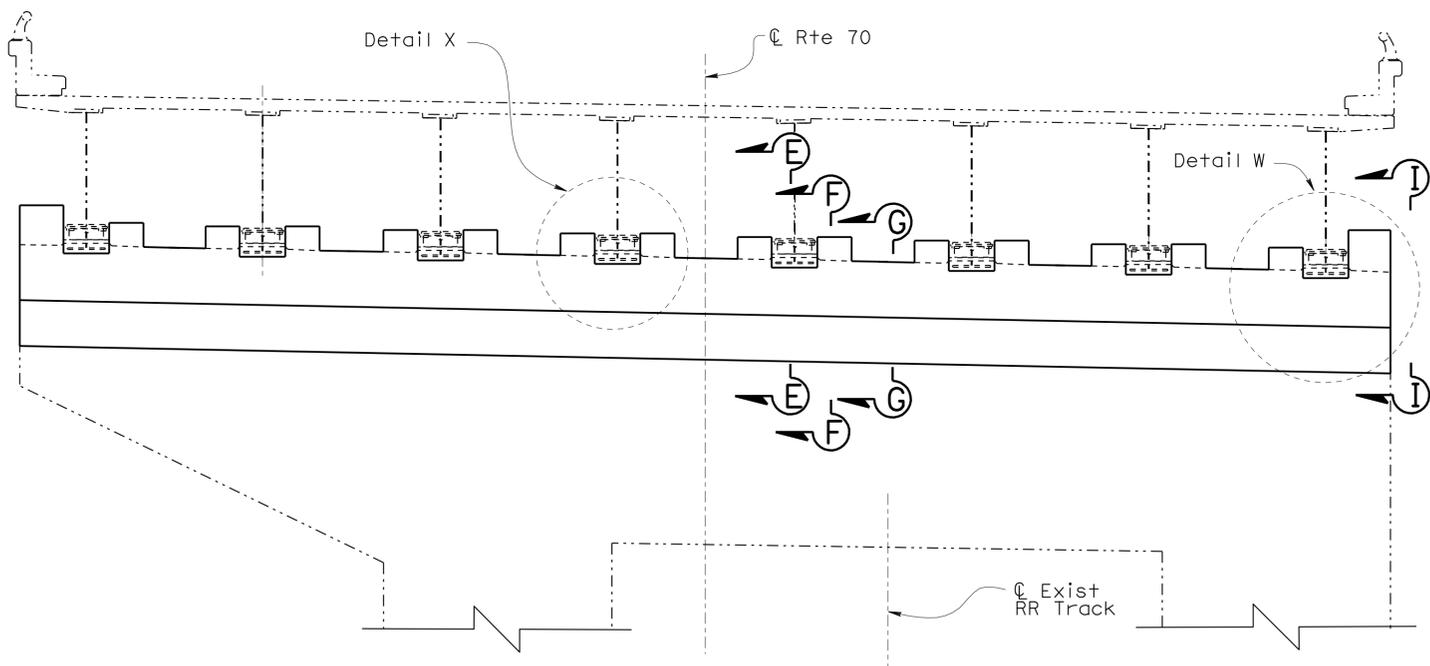
SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
APPROACH RETROFIT	
PIERS 2, 3, 4, 13 AND 14 DETAILS	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	53	95
David Soon			1-6-12	REGISTERED CIVIL ENGINEER DATE	
5-21-12			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					
					



NOTE:
Existing girders & deck not shown.

NOTES:
1. Existing girders & deck not shown.
2. For dimensions not shown, see "PLAN (PIER 6)"



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

- LEGEND:**
- ① Girder catcher / Pier seat extension.
 - ② Girder limit block
 - ③ Pier seat extension
 - Indicates existing

NOTES:

- Pier 12 shown, Pier 5 similar.
- Elevation shown for 135'-0"± span.
- For Elevation of 80'-0"± span, see "PIERS 2, 3, 4, 13 AND 14 LAYOUT" and "PIERS 2, 3, 4, 13 AND 14 DETAILS" sheets.
- For "SECTION E-E, F-F and G-G", "VIEW H-H, I-I and W2-W2", "DETAIL V, W and X", see "PIERS 5, 6 & 12 DETAILS No. 1" sheet.

**SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
APPROACH RETROFIT
PIERS 5, 6 AND 12 LAYOUT**

DESIGN	BY David Soon	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai

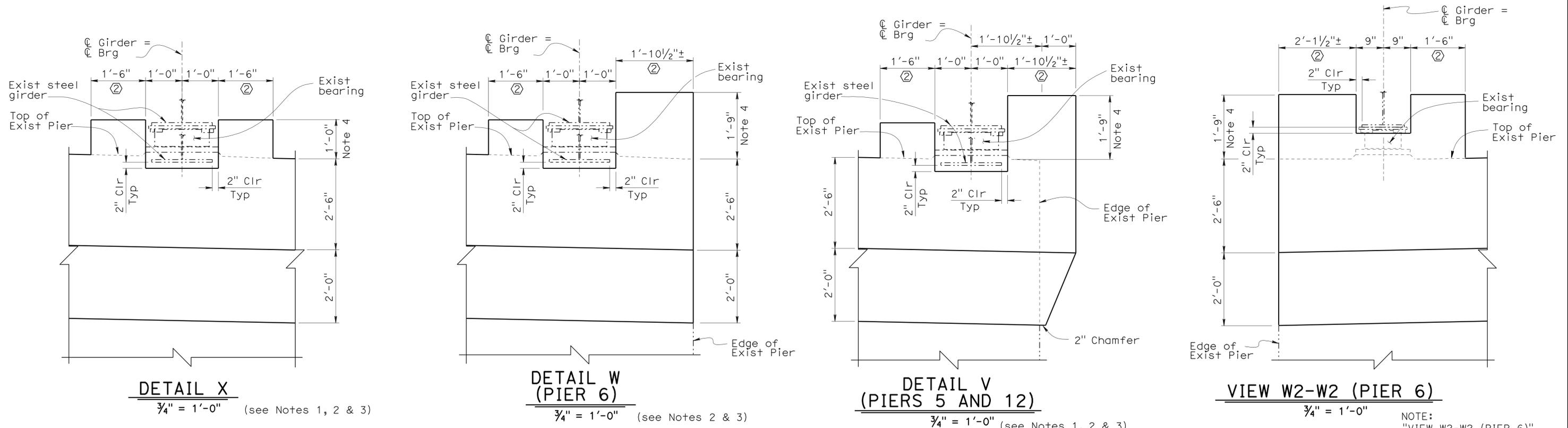
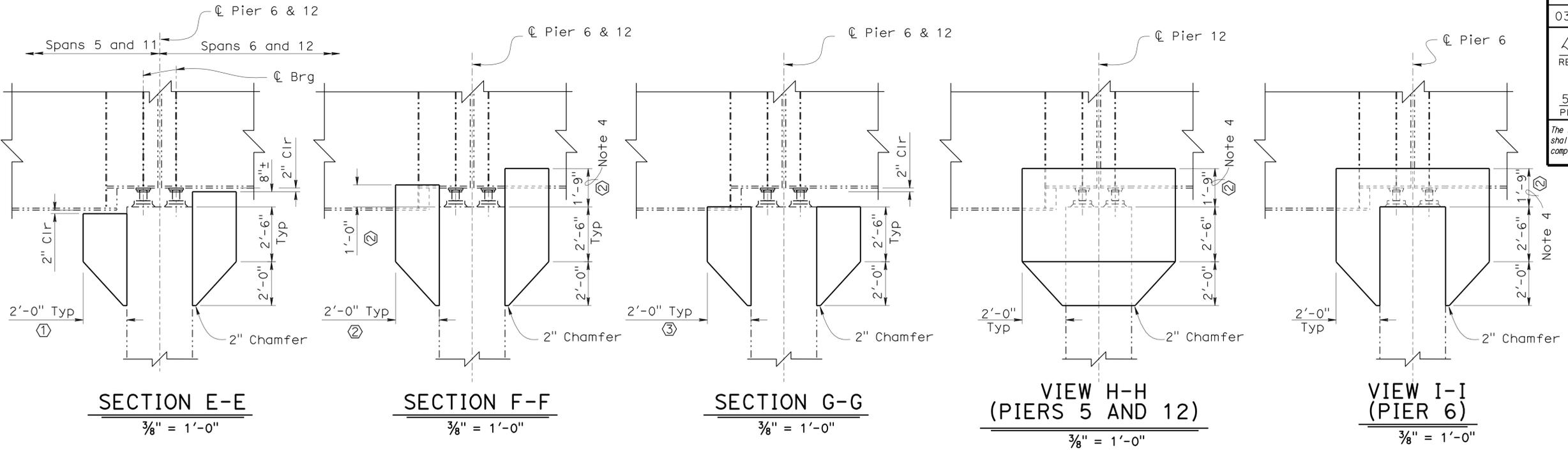
**STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION**

**DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7**

BRIDGE NO. 12-0134
POST MILE 28.2

BRIDGE NO.	12-0134
POST MILE	28.2
REVISION DATES	
SHEET	18
OF	60

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	54	95
David Soon			1-6-12	REGISTERED CIVIL ENGINEER DATE	
5-21-12			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



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

LEGEND:
 ① Girder catcher / Pier seat extension.
 ② Girder limit block
 ③ Pier seat extension
 ----- Indicates existing

NOTES:

- Pier 12 shown, Pier 5 similar.
- Details shown for 135'-0"± span.
- For details of 80'-0"± span, see "PIERS 2, 3, 4, 13 AND 14 LAYOUT" and "PIERS 2, 3, 4, 13 AND 14 DETAILS" sheets.
- Measured along @ girder.

**SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
APPROACH RETROFIT
PIERS 5, 6 AND 12 DETAILS No. 1**

DESIGN	BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai				

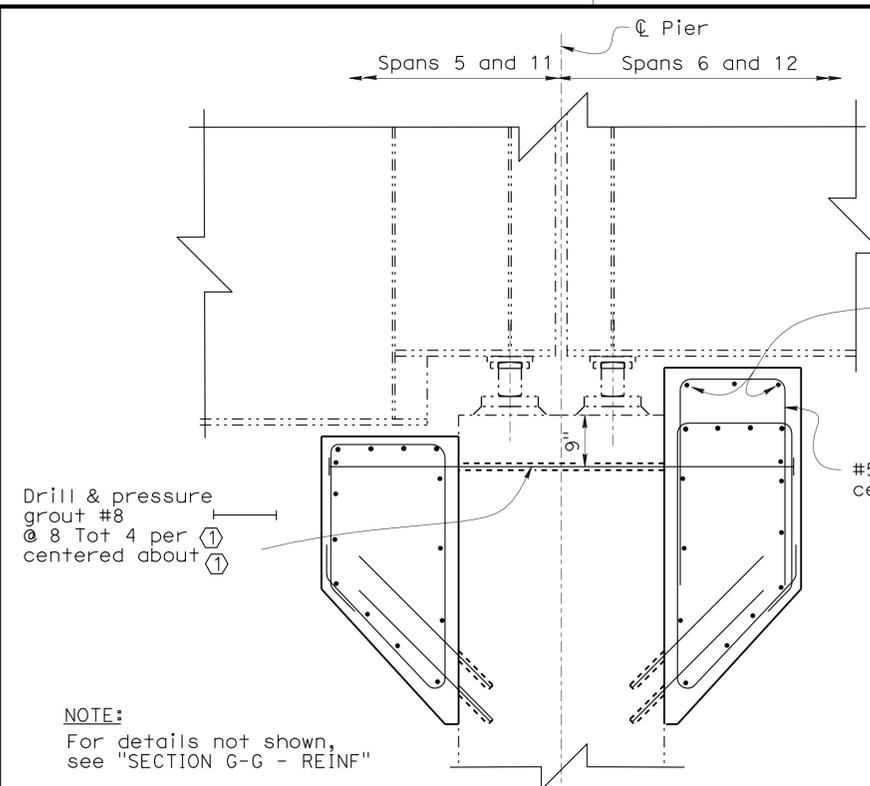
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	55	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE

5-21-12
 PLANS APPROVAL DATE

David Soon
 No. 51862
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

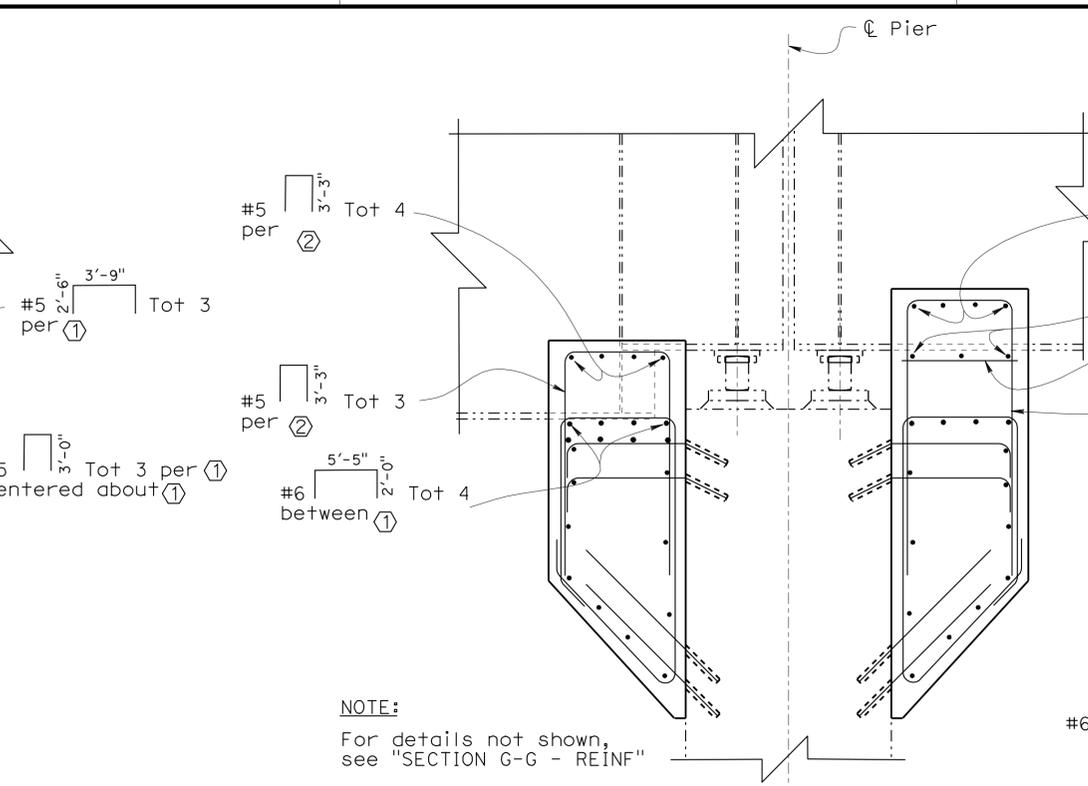
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



**SECTION E-E - REINFORCEMENT
PIERS 5, 6 & 12**

3/4" = 1'-0"
 See Notes 1, 2 & 3

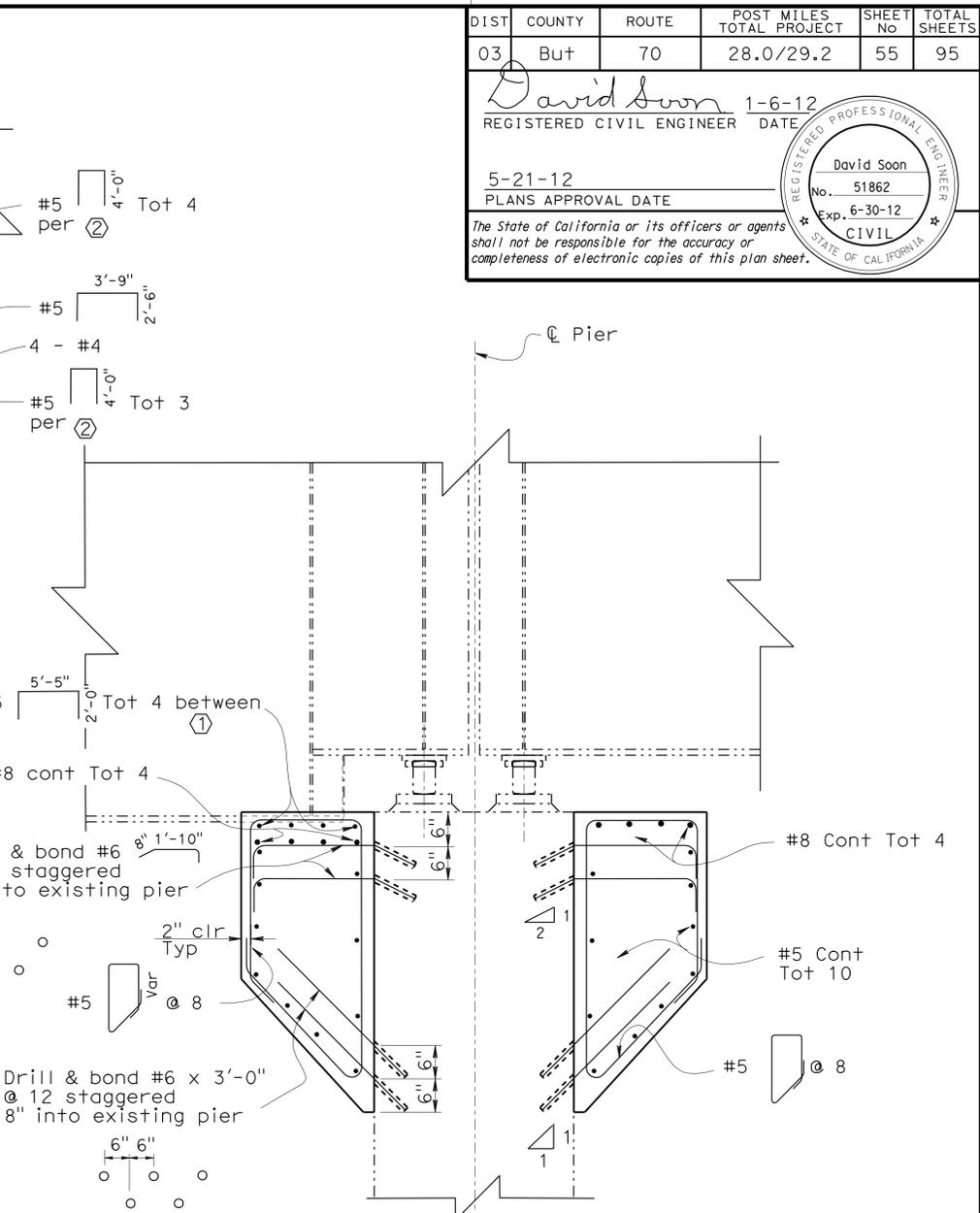
NOTE:
 For details not shown,
 see "SECTION G-G - REINF"



**SECTION F-F - REINFORCEMENT
PIERS 5, 6 & 12**

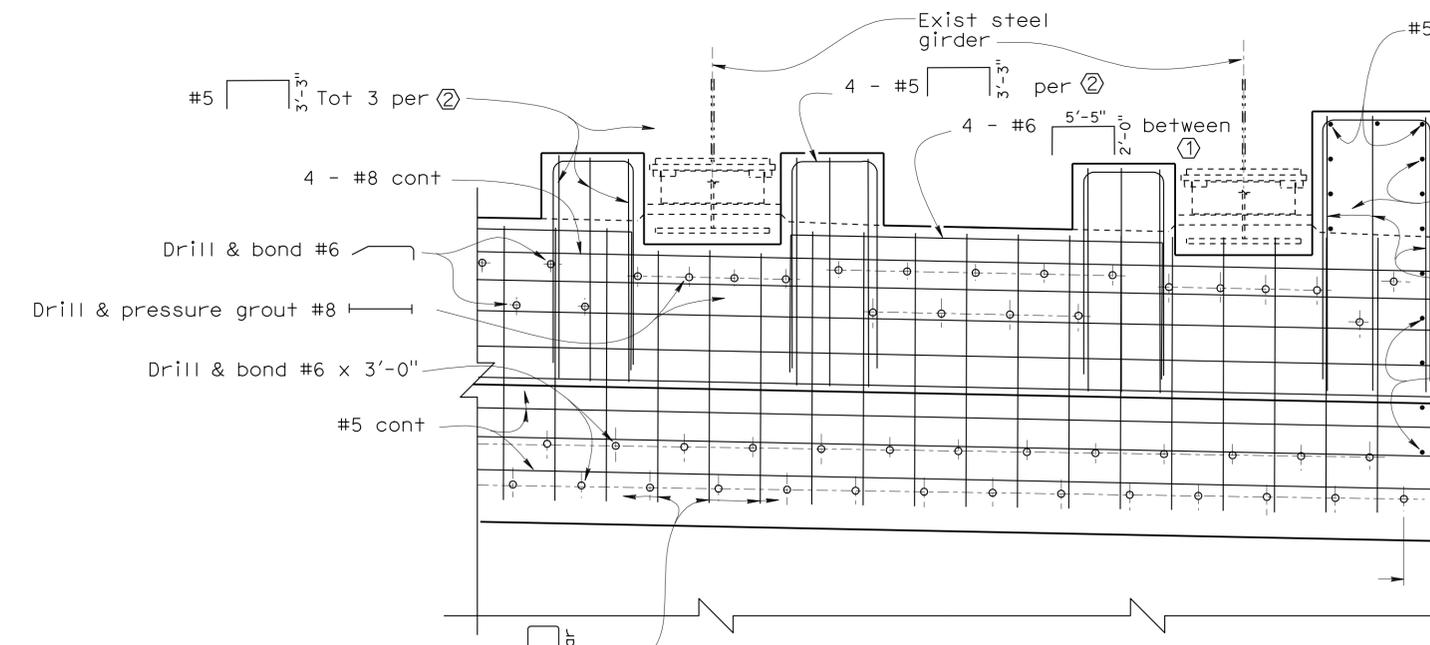
3/4" = 1'-0"
 See Notes 1, 2 & 3

NOTE:
 For details not shown,
 see "SECTION G-G - REINF"



**SECTION G-G - REINFORCEMENT
PIERS 5, 6 & 12**

3/4" = 1'-0"
 See Notes 1, 2 & 3



**DETAIL W - REINFORCEMENT
PIER 6**

3/4" = 1'-0"

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

LEGEND:

- ① Girder catcher / Pier seat extension.
- ② Girder limit block.
- ③ Pier seat extension.
- Indicates existing
- Indicates headed bar reinforcement (both ends)

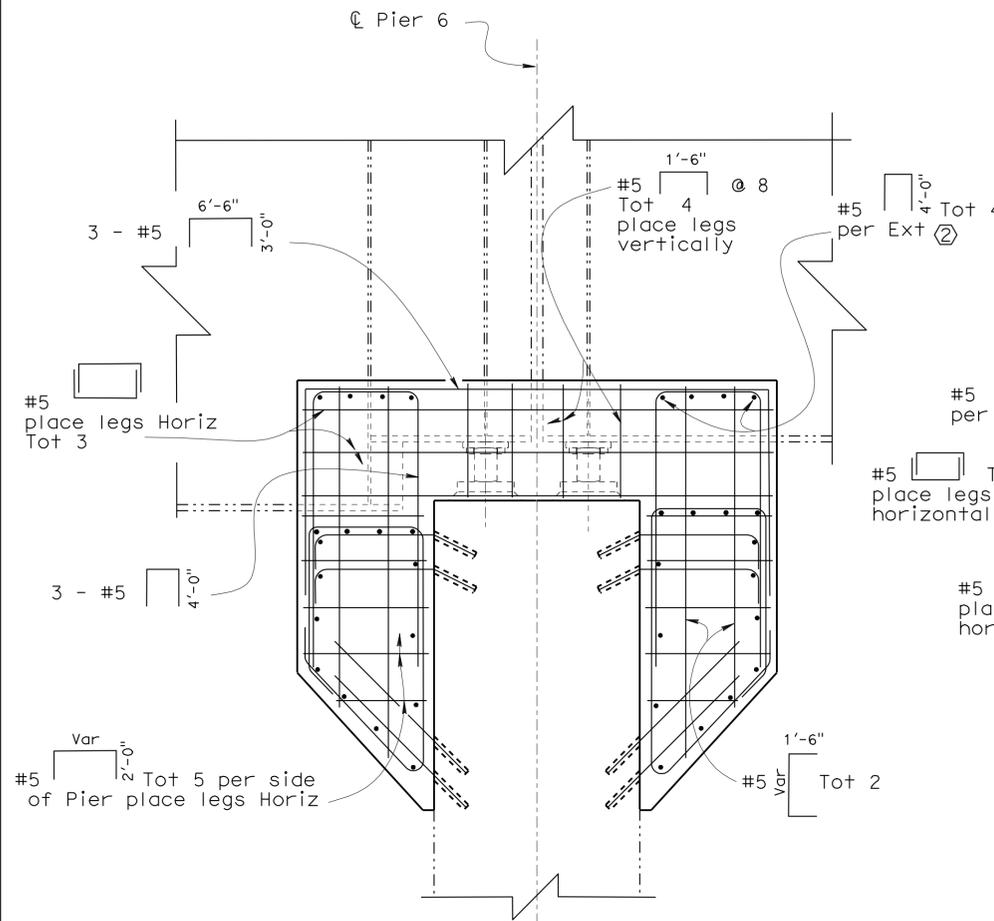
NOTES:

- 1. Pier 12 shown, Pier 5 similar.
- 2. Details for 135'-0"± span shown.
- 3. For details of 80'-0"± span, see "PIERS 2, 3, 4, 13 AND 14 LAYOUT" and "PIERS 2, 3, 4, 13 AND 14 DETAILS" sheets.

For additional exterior reinforcement, see "VIEW I-I REINFORCEMENT" on "PIER 5, 6 and 12 DETAILS No. 3" sheet.

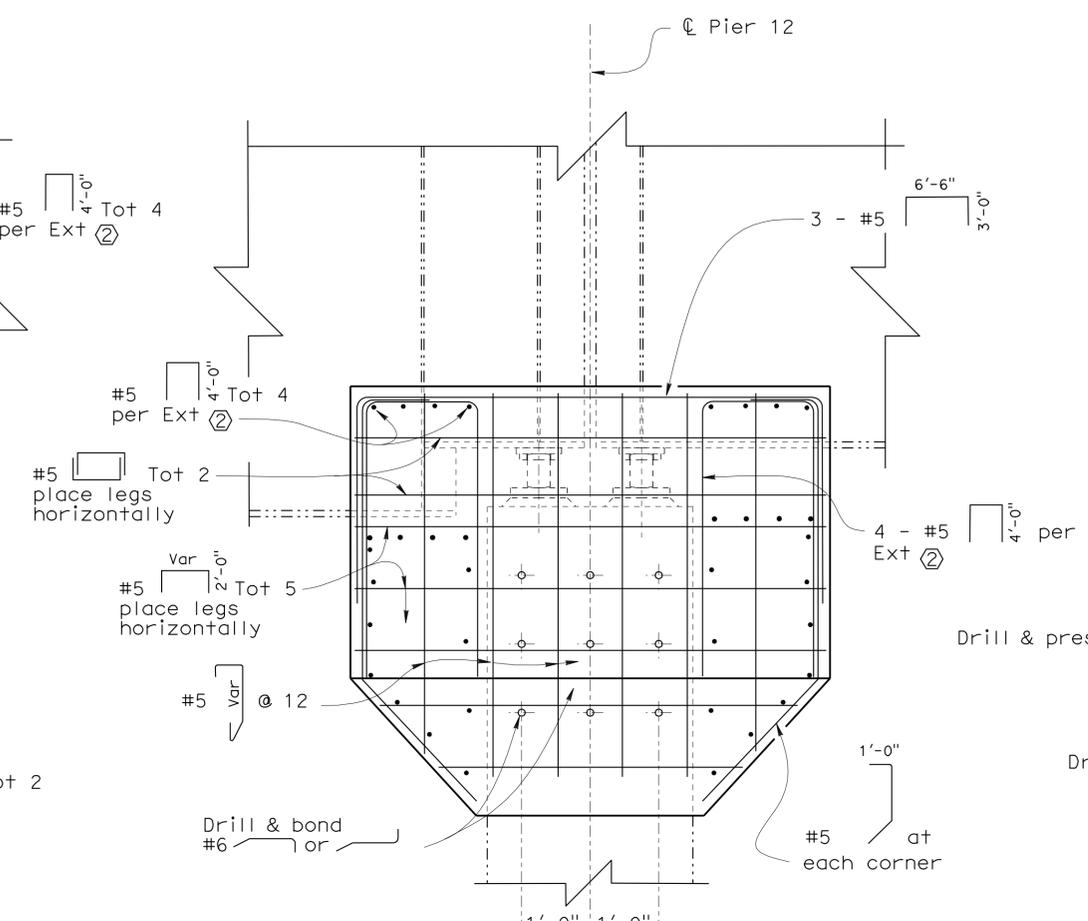
DESIGN	BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai				

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
APPROACH RETROFIT	
PIERS 5, 6 AND 12 DETAILS No. 2	



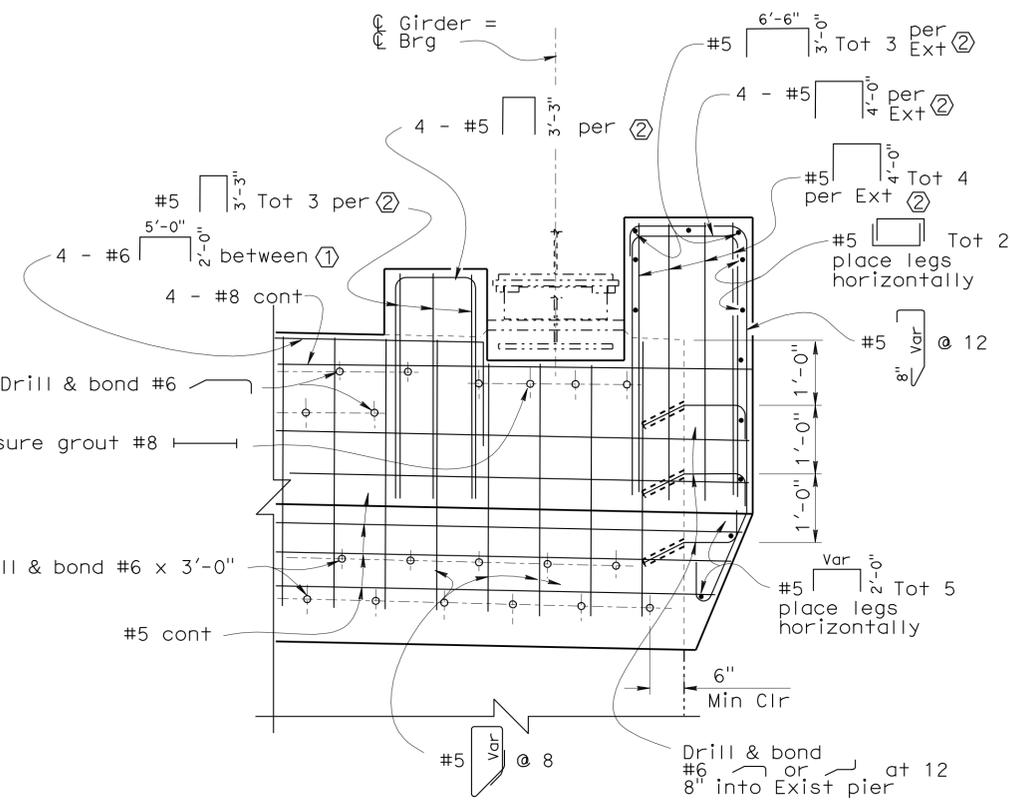
VIEW I-I - REINFORCEMENT (PIER 6)

3/4" = 1'-0"
See Notes 2 & 3



VIEW H-H - REINFORCEMENT (PIERS 5 AND 12)

3/4" = 1'-0"
See Notes 1, 2 & 3



DETAIL V - REINFORCEMENT (PIERS 5 AND 12)

3/4" = 1'-0"
See Notes 1, 2 & 3

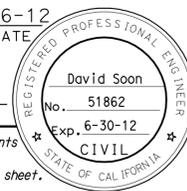
- LEGEND:**
- ① Girder catcher / Pier seat extension.
 - ② Girder limit block.
 - ③ Pier seat extension.
 - Indicates existing
 - Indicates headed bar reinforcement (both ends)

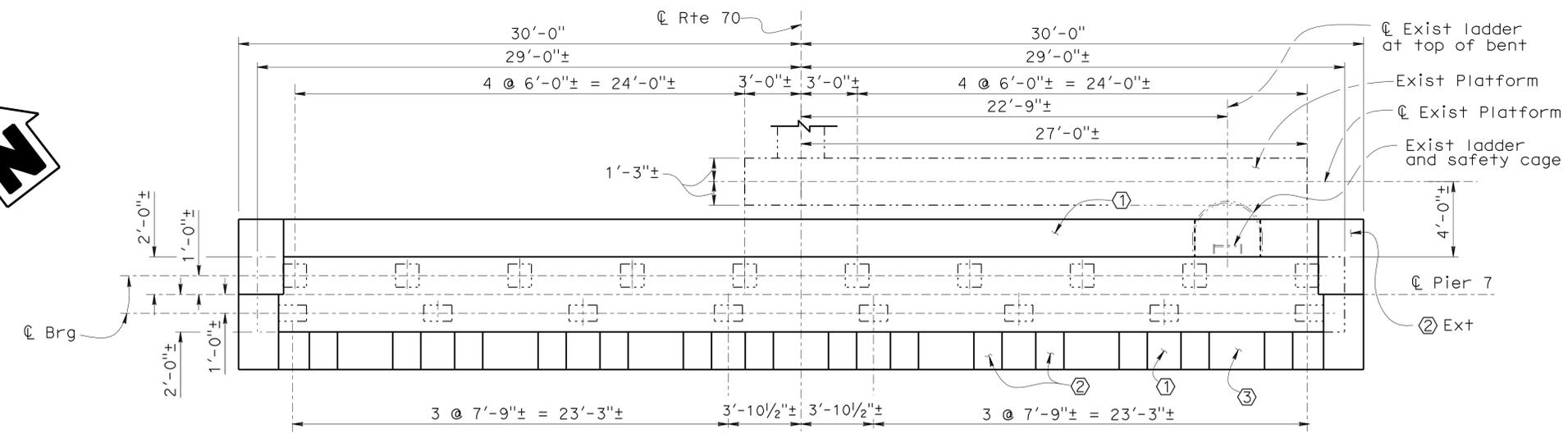
- NOTES:**
1. Pier 12 shown, Pier 5 similar.
 2. Details for 135'-0"± span shown.
 3. For details of 80'-0"± span, see "PIERS 2, 3, 4, 13 AND 14 LAYOUT" and "PIERS 2, 3, 4, 13 AND 14 DETAILS" sheets.

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

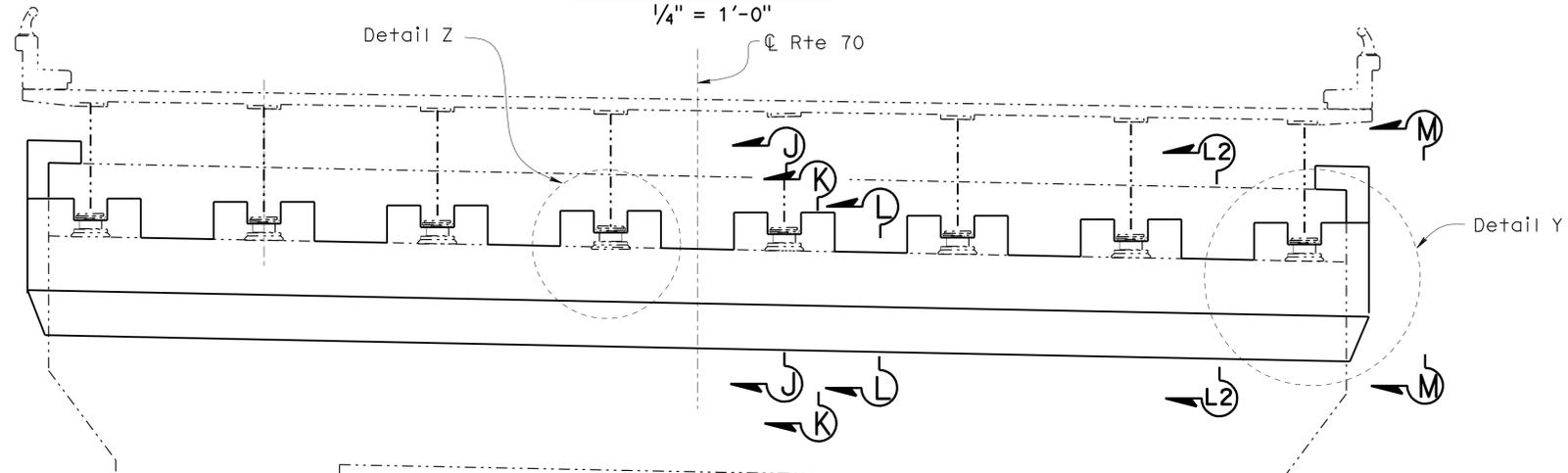
DESIGN	BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai				

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
APPROACH RETROFIT
PIERS 5, 6 AND 12 DETAILS No. 3

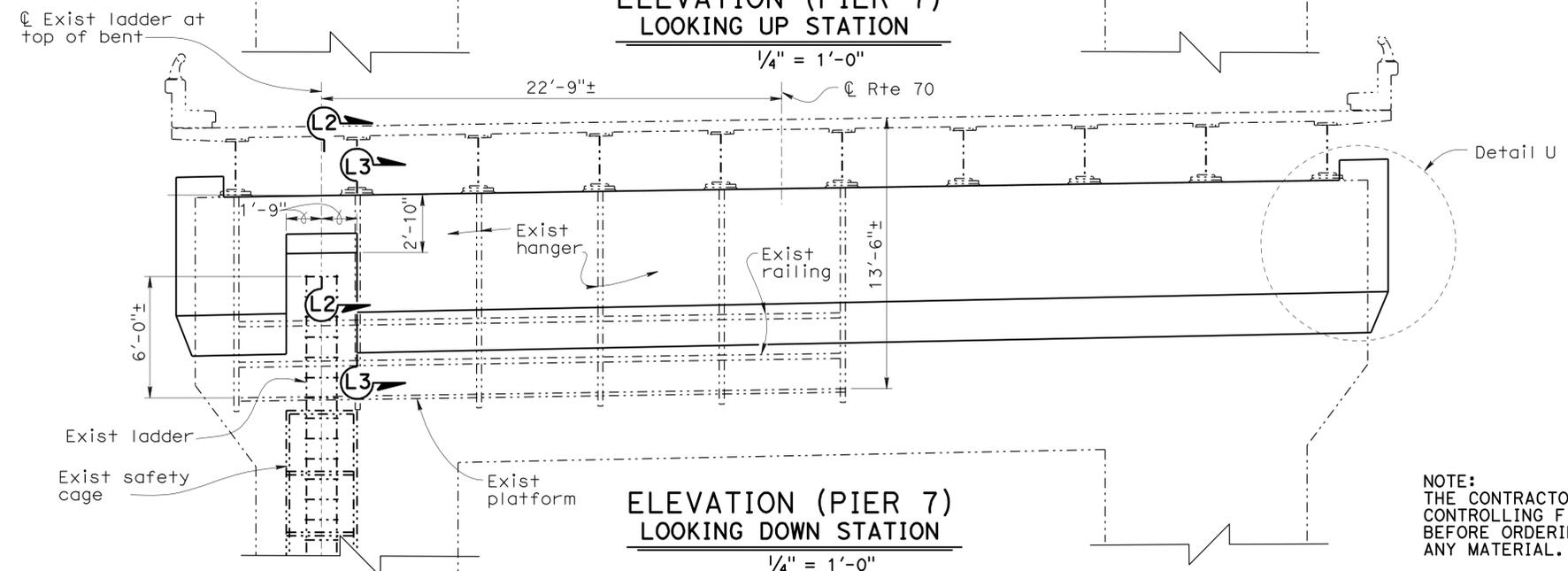
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Bu+	70	28.0/29.2	57	95
David Soon				1-6-12	
REGISTERED CIVIL ENGINEER				DATE	
5-21-12				PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



PLAN (PIER 7)
1/4" = 1'-0"



**ELEVATION (PIER 7)
LOOKING UP STATION**
1/4" = 1'-0"



**ELEVATION (PIER 7)
LOOKING DOWN STATION**
1/4" = 1'-0"

NOTES:

1. Details shown for 36'-0"± span.
2. For details of 80'-0"± span, see "PIERS 2, 3, 4, 13 AND 14 LAYOUT" and "PIERS 2, 3, 4, 13 AND 14 DETAILS" sheets.
3. For "DETAIL U", see "PIER 7 DETAILS No. 1" sheet.
4. For "DETAIL Y" and "DETAIL Z", see "PIERS 2, 3, 4, 13 AND 14 LAYOUT" and "PIERS 2, 3, 4, 13 AND 14 DETAILS" sheets.
5. For "SECTION L2-L2" and "VIEW L3-L3", see "PIER 7 DETAILS No. 3" sheet.
6. For "SECTION J-J", "SECTION K-K", "SECTION L-L" and "SECTION M-M", see "PIER 7 DETAILS No. 1" sheet.

LEGEND:

- ① Girder catcher / Pier seat extension.
- ② Girder limit block
- ③ Pier seat extension
- Indicates existing

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

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
APPROACH RETROFIT	
PIER 7 LAYOUT	

DESIGN	BY David Soon	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES						SHEET	OF
3-17-10	7-27-11	8-20-11	12-16-11	12-22-11		22	60

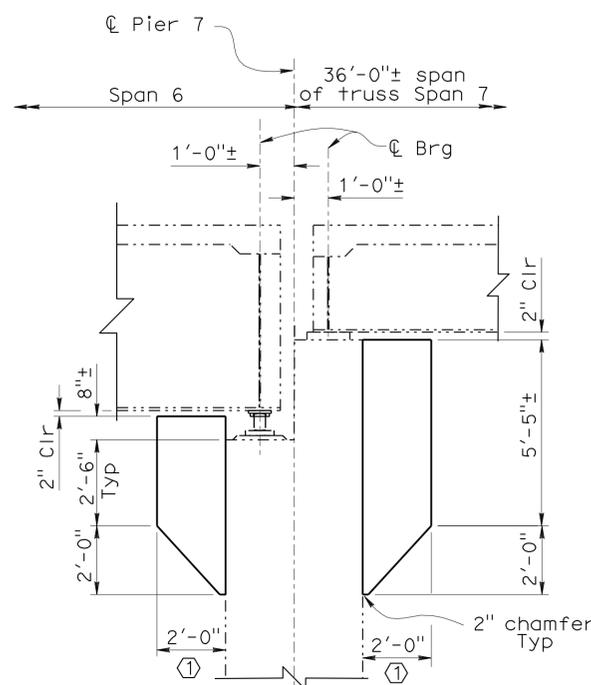
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	58	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE

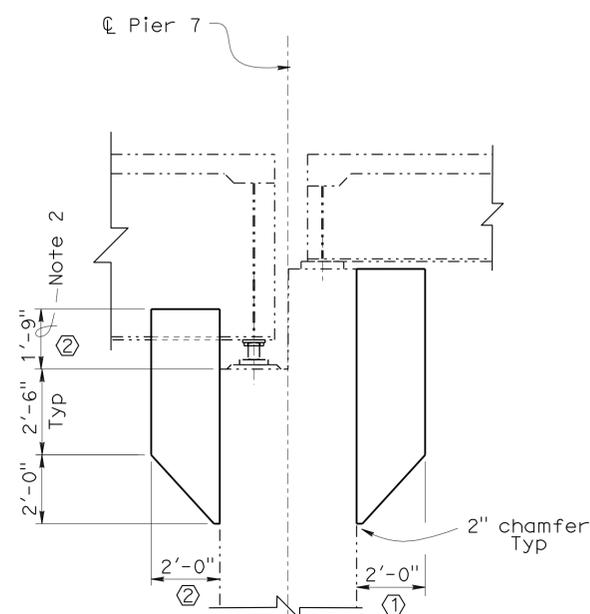
5-21-12
 PLANS APPROVAL DATE

David Soon
 No. 51862
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

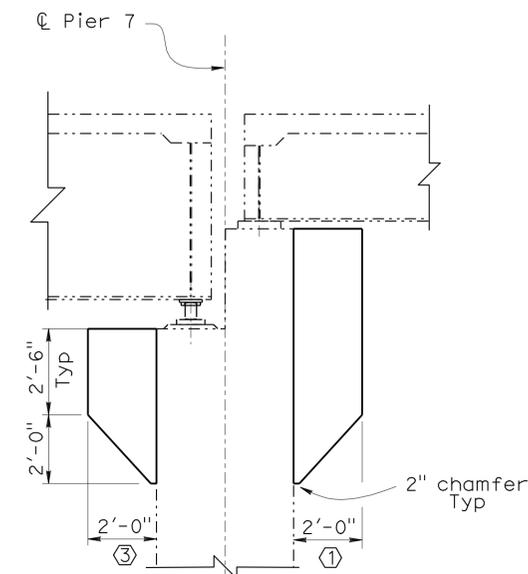
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



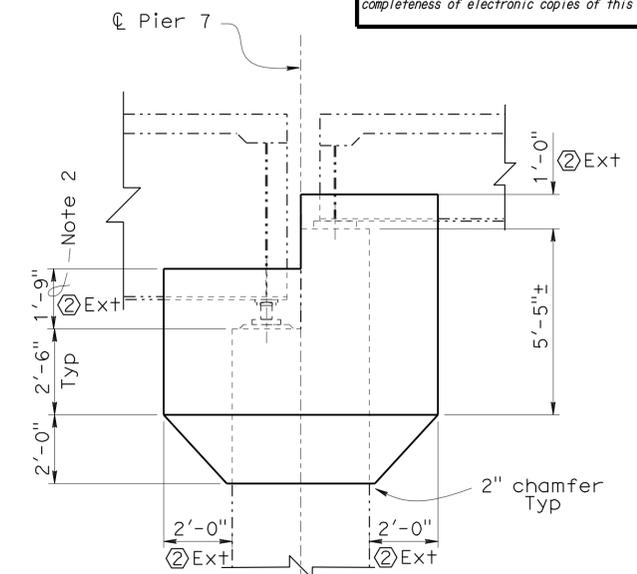
SECTION J-J
3/8" = 1'-0"



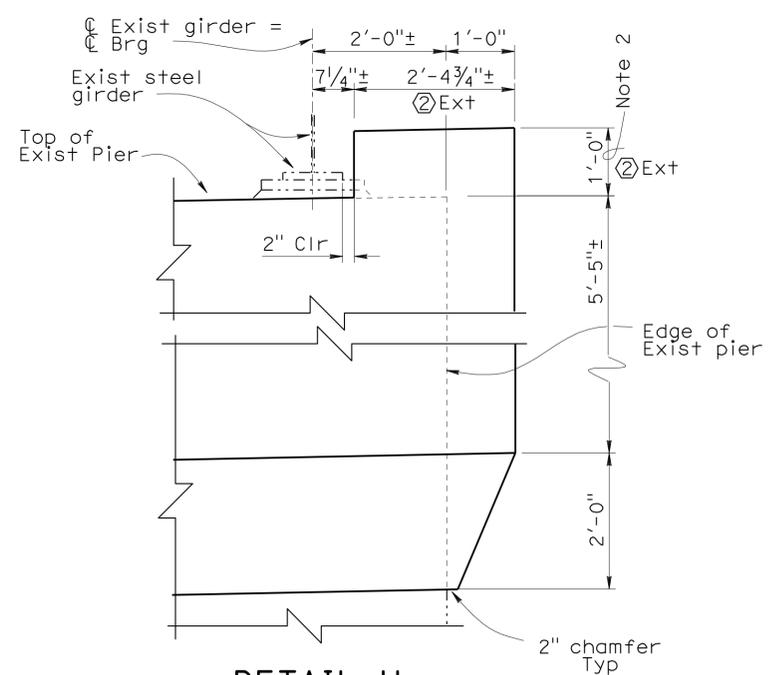
SECTION K-K
3/8" = 1'-0"



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



VIEW M-M
3/8" = 1'-0"



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

- LEGEND:**
- ① Girder catcher / Pier seat extension.
 - ② Girder limit block
 - ③ Pier seat extension
 - Indicates existing
- NOTE:**
1. For details of 80'-0"± span, see "PIERS 2, 3, 4, 13 AND 14 LAYOUT" and "PIERS 2, 3, 4, 13 AND 14 DETAILS" sheets.
 2. Measured along ϕ girder.

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

DESIGN	BY David Soon	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **7**

BRIDGE NO. 12-0134
 POST MILE 28.2

SEISMIC RETROFIT
 WEST BRANCH FEATHER RIVER BRIDGE
 APPROACH RETROFIT
 PIER 7 DETAILS No. 1

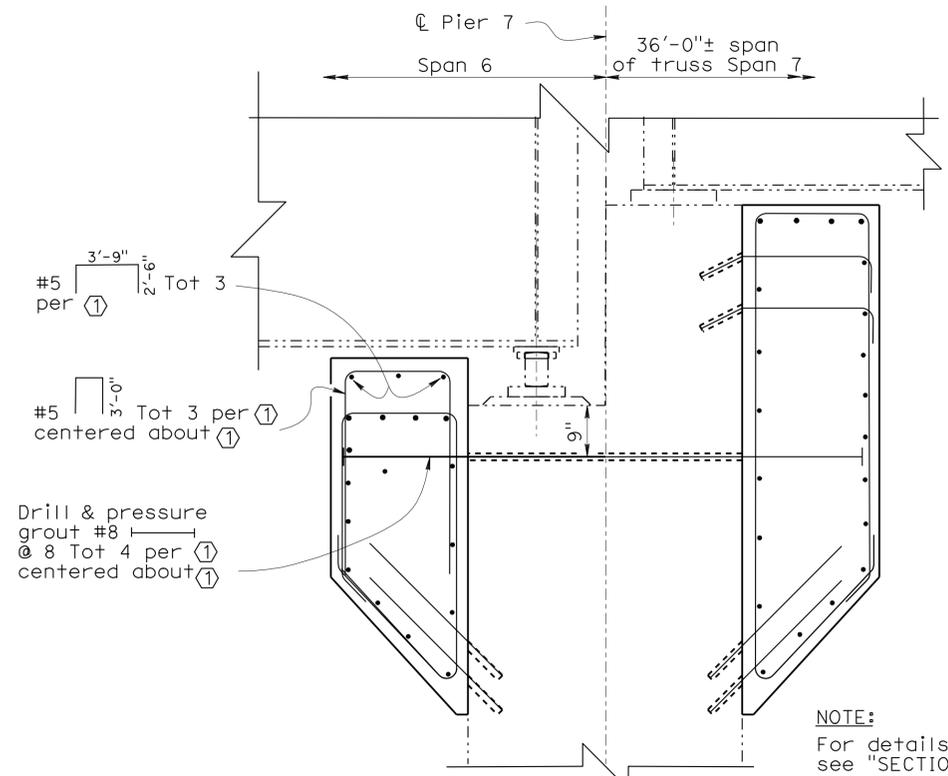
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	59	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE

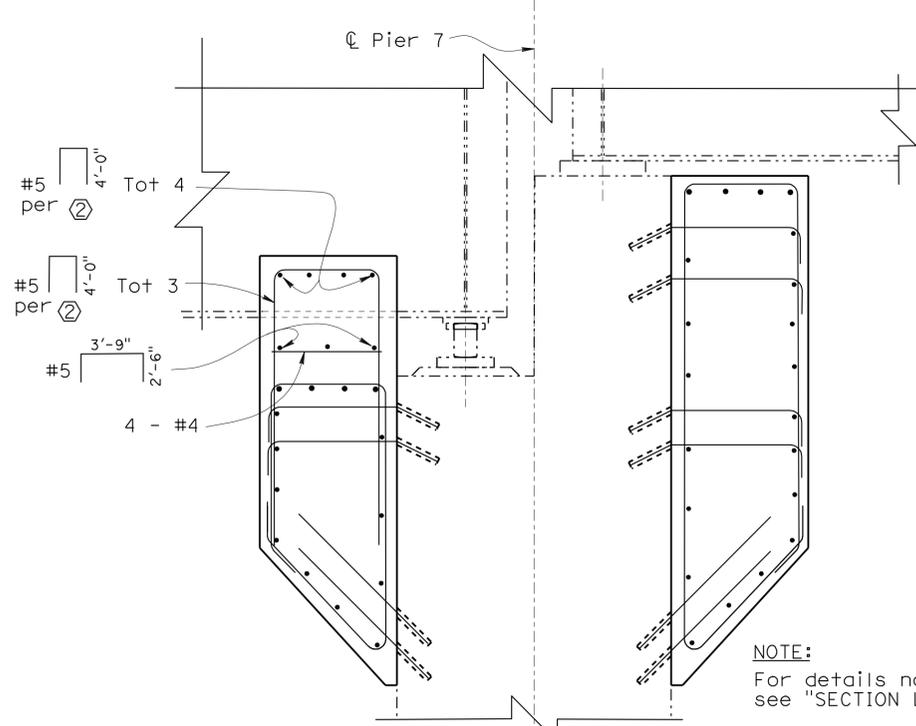
5-21-12
 PLANS APPROVAL DATE

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

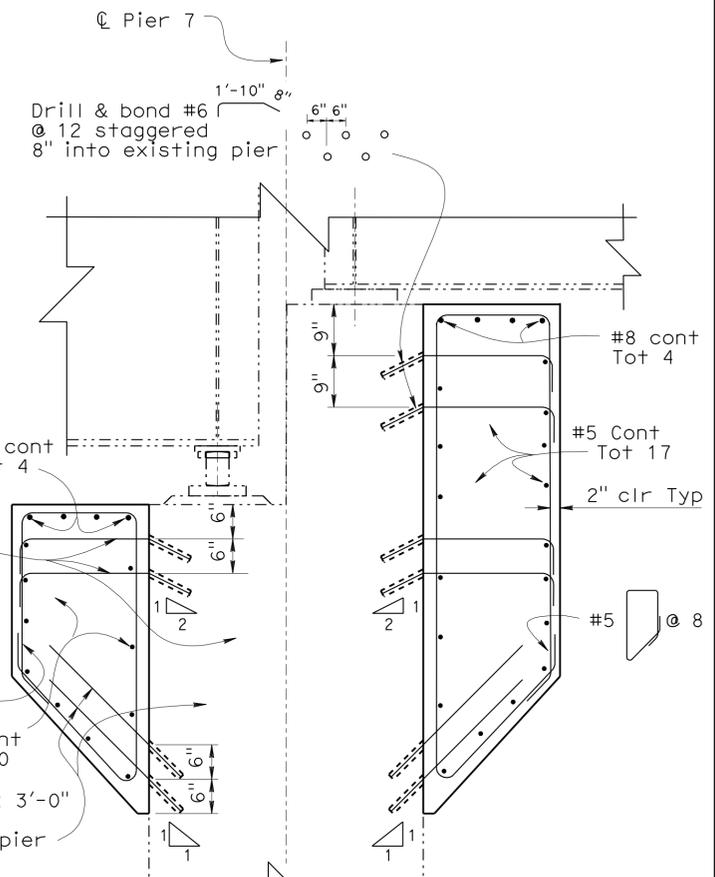
REGISTERED PROFESSIONAL ENGINEER
 David Soon
 No. 51862
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



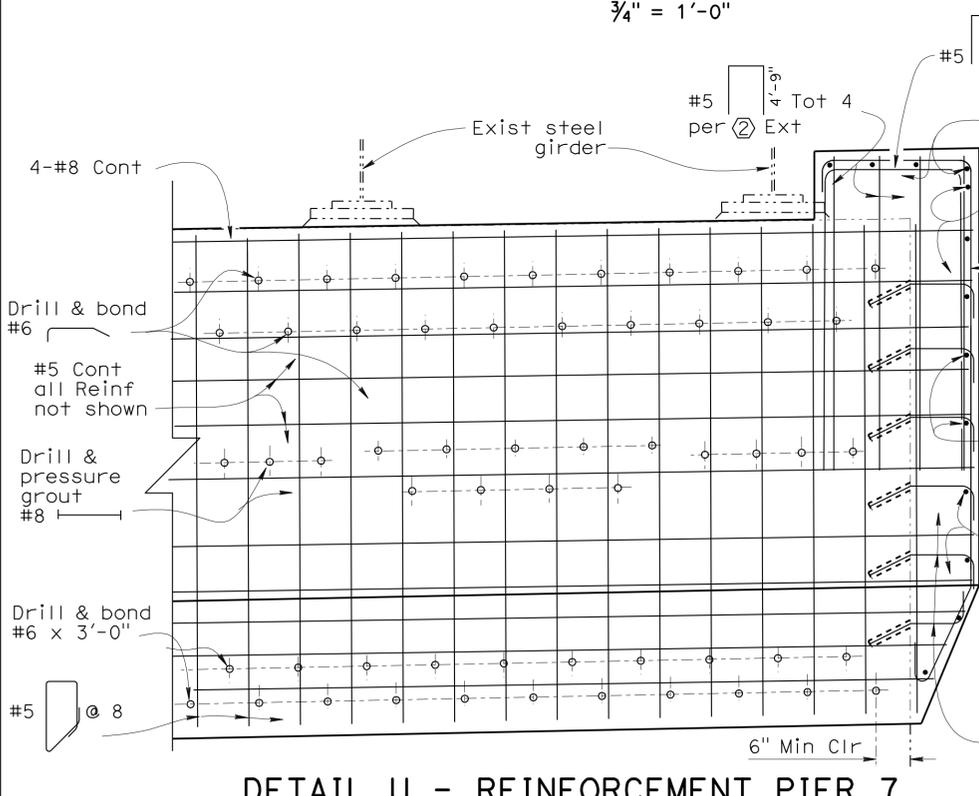
SECTION J-J - REINFORCEMENT PIER 7



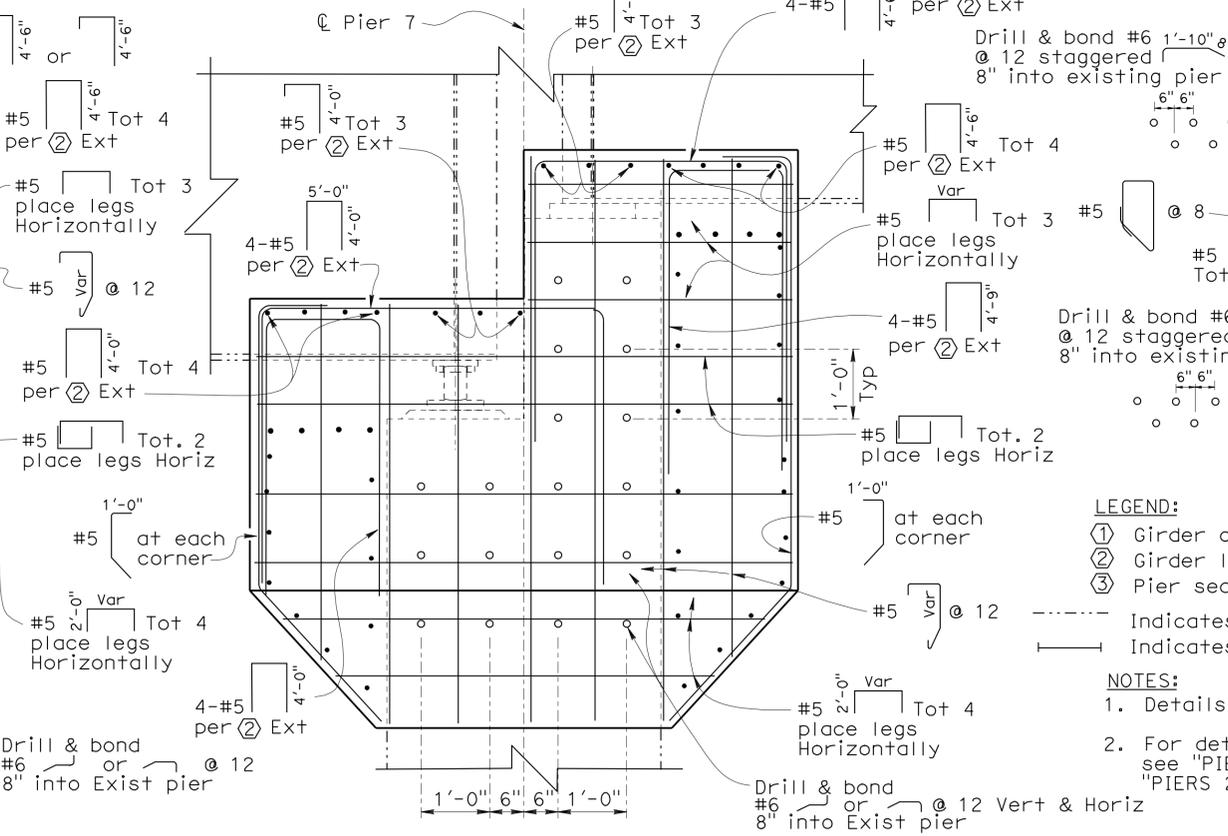
SECTION K-K - REINFORCEMENT PIER 7



SECTION L-L - REINFORCEMENT PIER 7



DETAIL U - REINFORCEMENT PIER 7



VIEW M-M - REINFORCEMENT PIER 7

- LEGEND:**
- ① Girder catcher / Pier seat extension.
 - ② Girder limit block
 - ③ Pier seat extension
 - Indicates existing
 - Indicates headed bar reinforcement (both ends)
- NOTES:**
1. Details shown for 36'-0"± span.
 2. For details not shown for 80'-0"± span, see "PIERS 2, 3, 4, 13 AND 14 LAYOUT" and "PIERS 2, 3, 4, 13 AND 14 DETAILS" sheets.

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

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
APPROACH RETROFIT
PIER 7 DETAILS No. 2

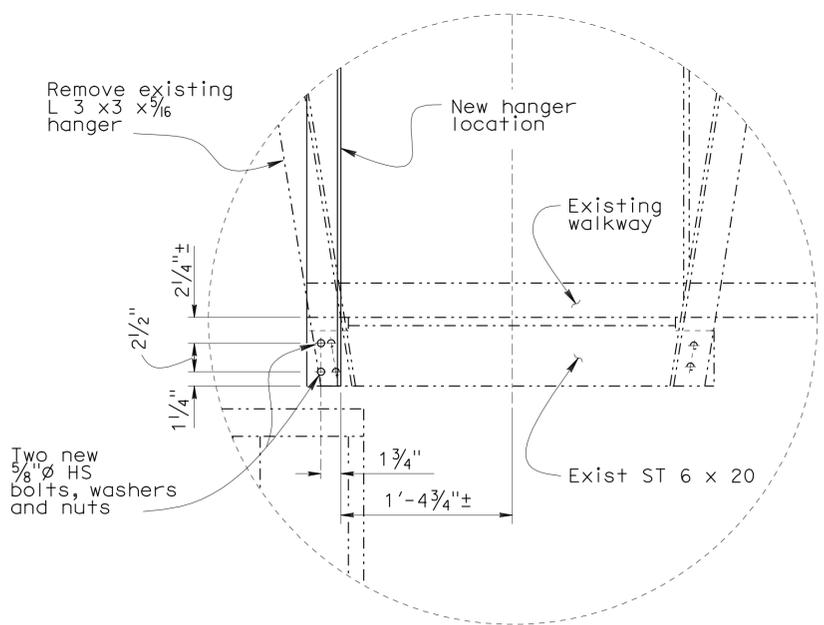
DESIGN	BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung		POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai		PROJECT	CU 03227 EA 1E5101

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

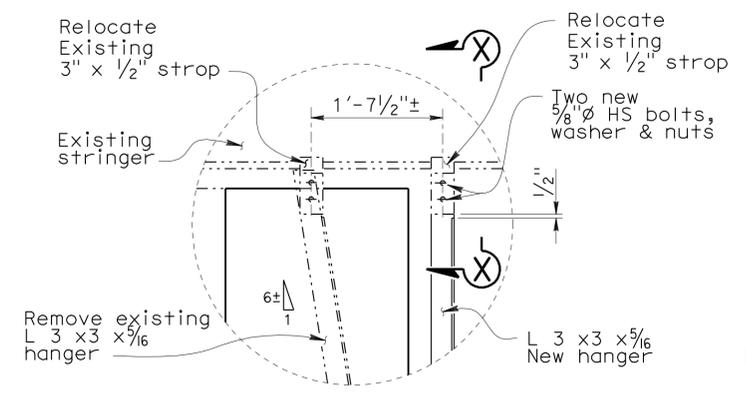
0 1 2 3

UNIT: 3592
 PROJECT: 03 0000 0266
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

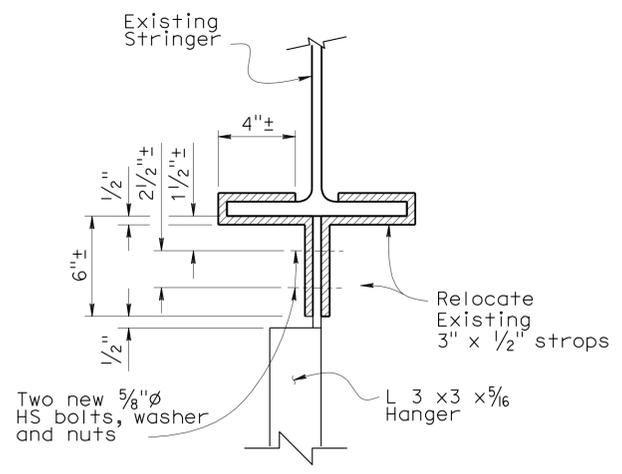
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	BuT	70	28.0/29.2	60	95
David Soon 1-6-12 REGISTERED CIVIL ENGINEER DATE					
5-21-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



DETAIL M
No scale

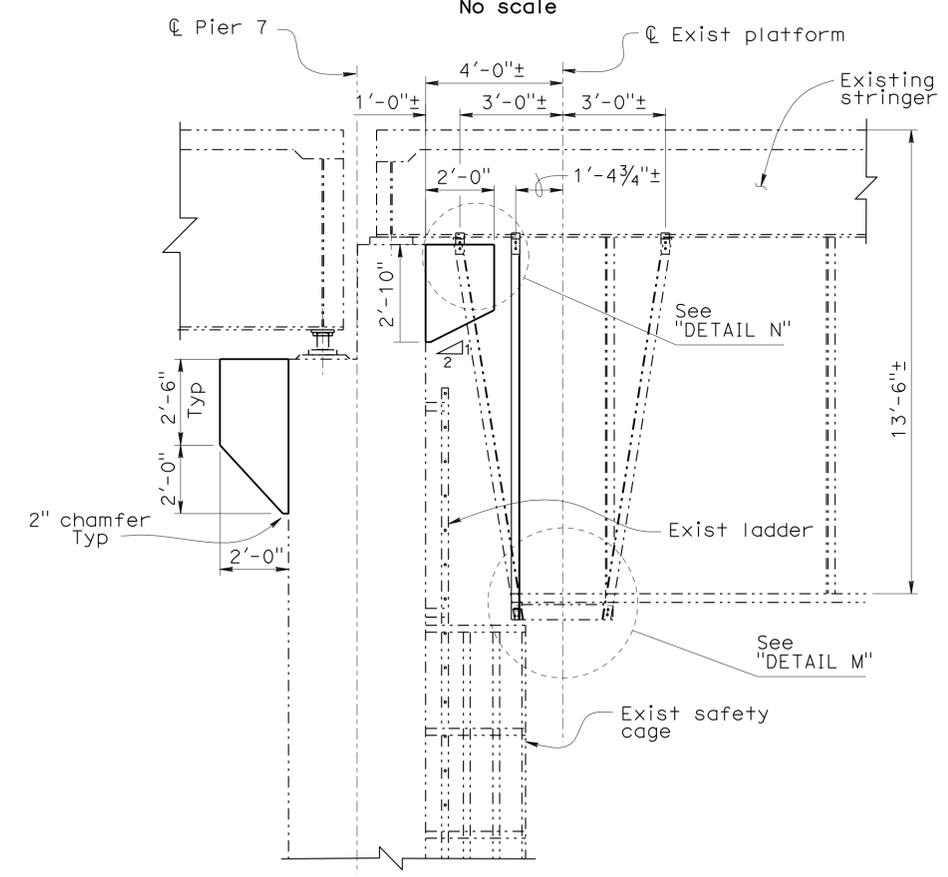


DETAIL N
No scale



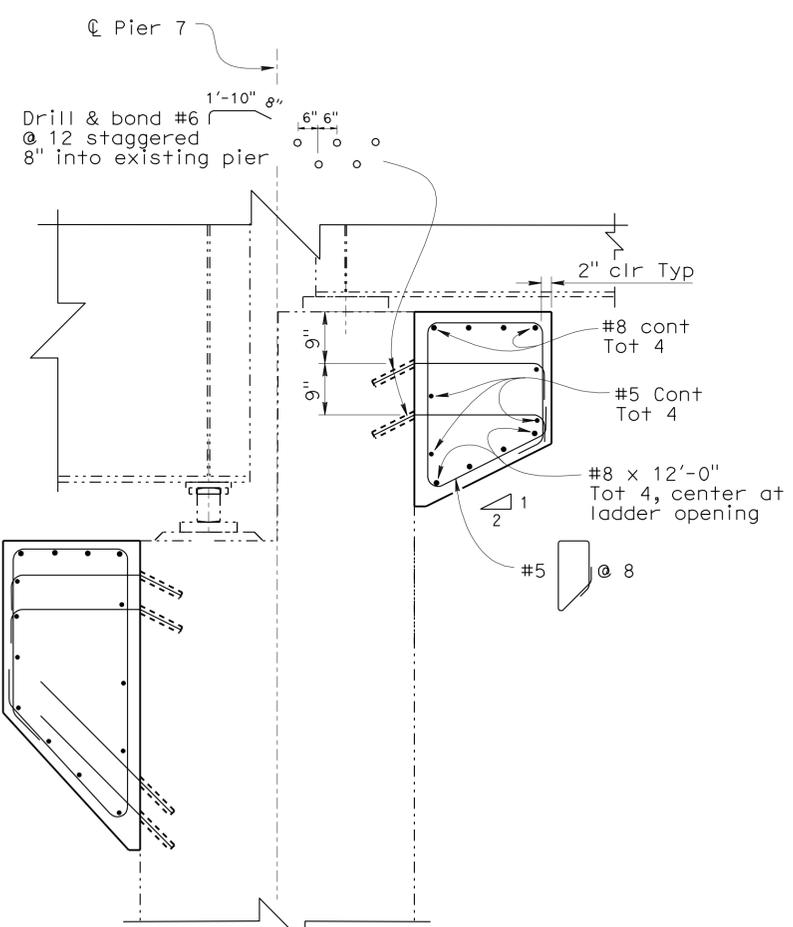
SECTION X-X
No scale

LEGEND:
----- Indicates existing



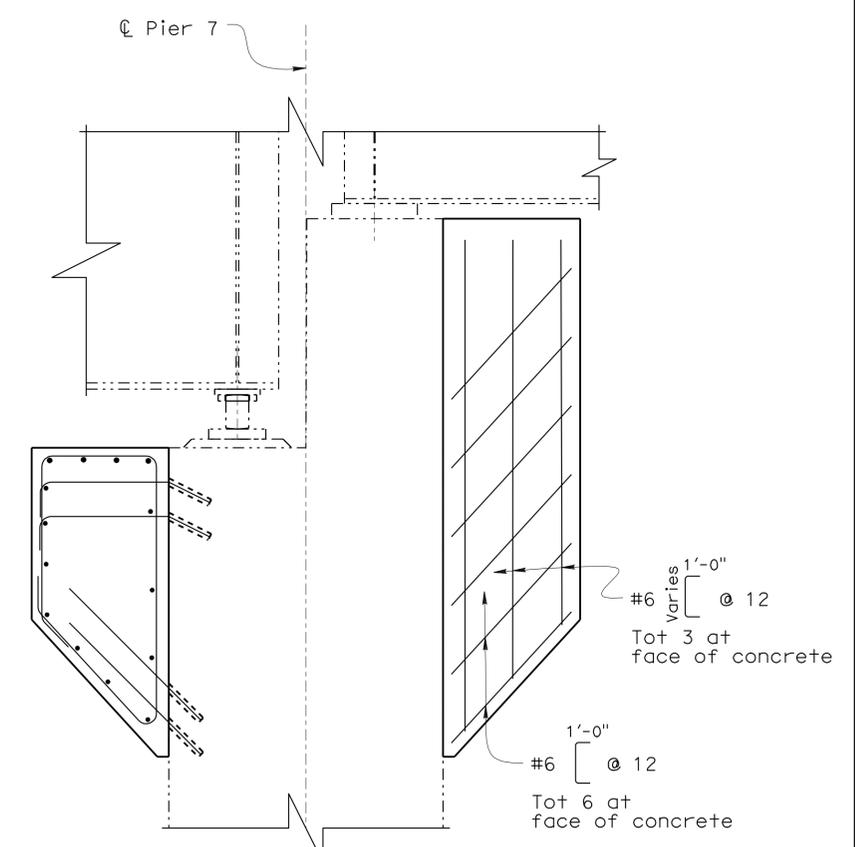
SECTION L2-L2
3/8" = 1'-0"

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



SECTION L2-L2 - REINFORCEMENT PIER 7
3/4" = 1'-0"

NOTE:
For limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge), see "LIMITS OF CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" detail on "INDEX TO PLANS" sheet.



VIEW L3-L3 - REINFORCEMENT PIER 7
3/4" = 1'-0"

NOTE:
For details not shown, see "SECTION L2-L2 Reinf"

**SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
APPROACH RETROFIT
PIER 7 DETAILS No. 3**

DESIGN	BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED EO Jr. / DD / ST				

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES						SHEET	OF
3-17-10	7-28-11	8-20-11	12-18-11			25	60

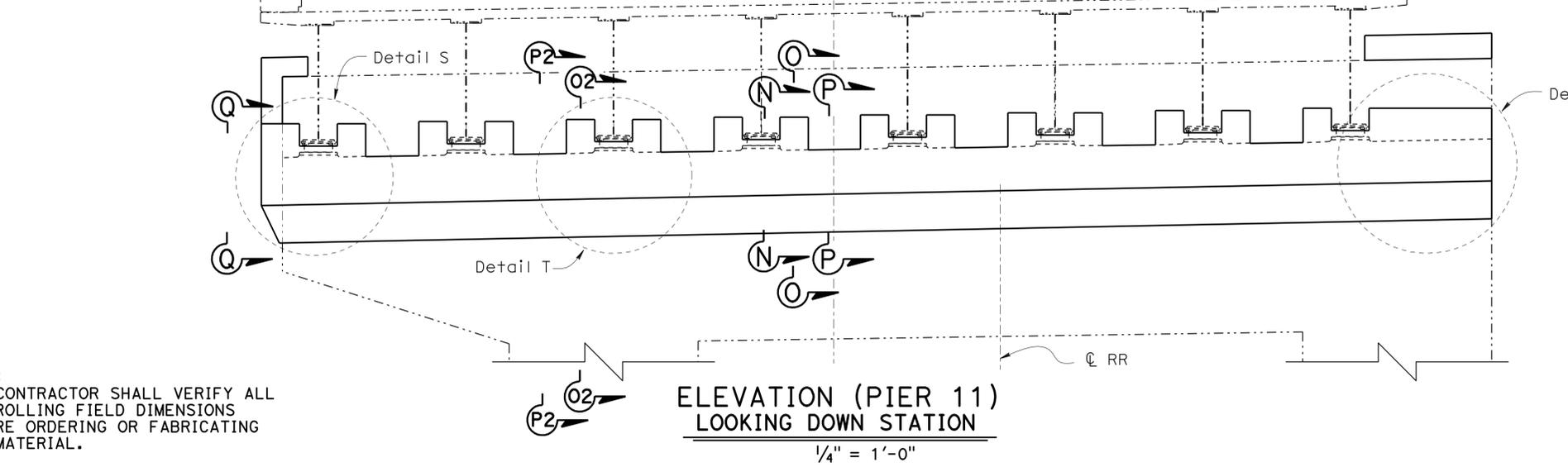
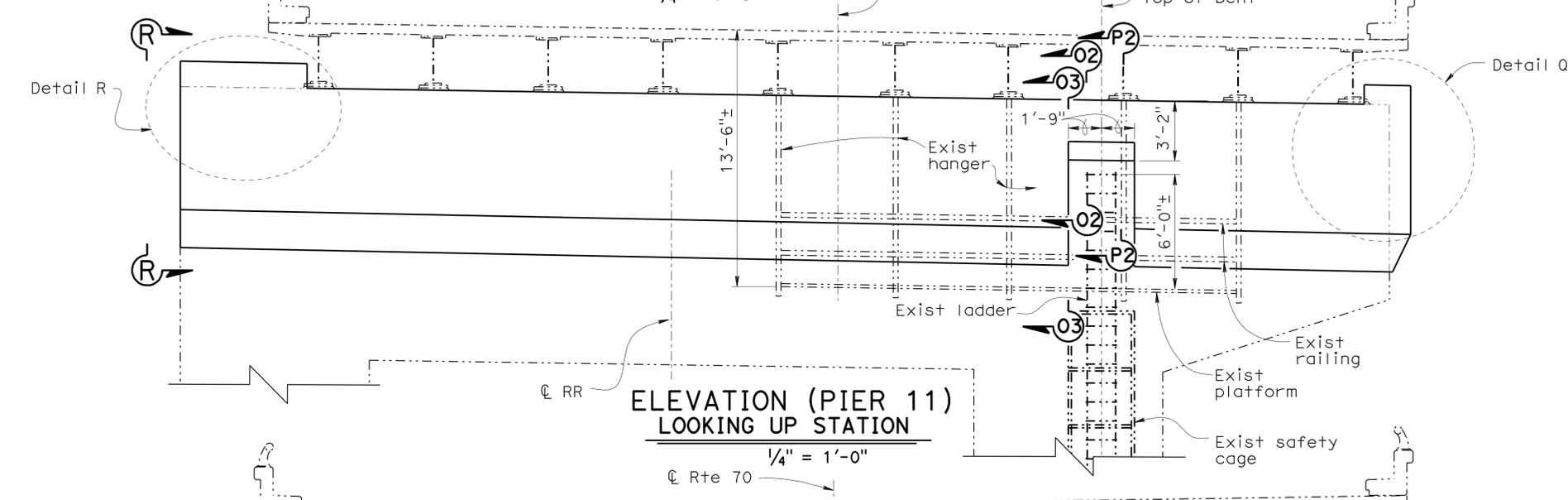
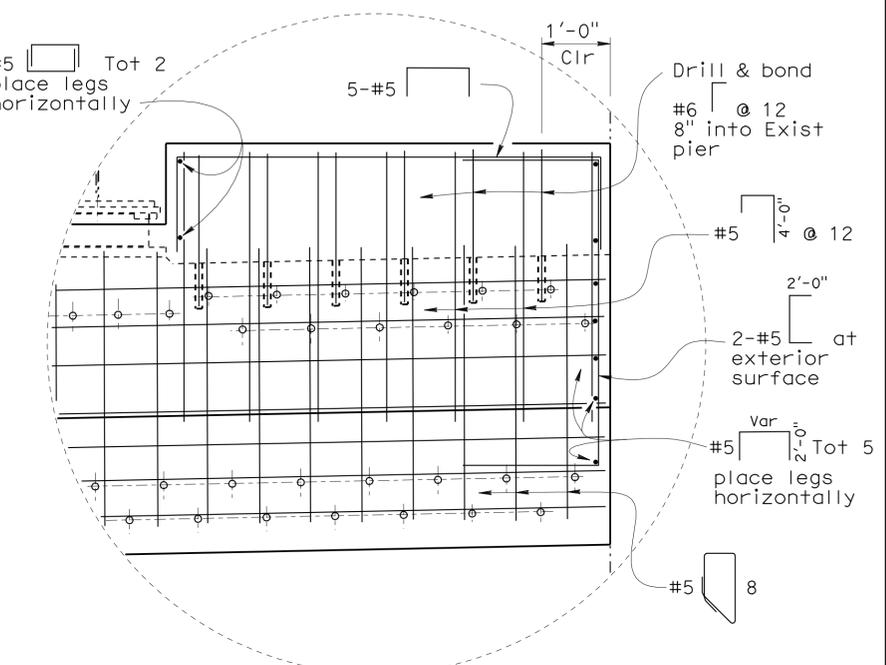
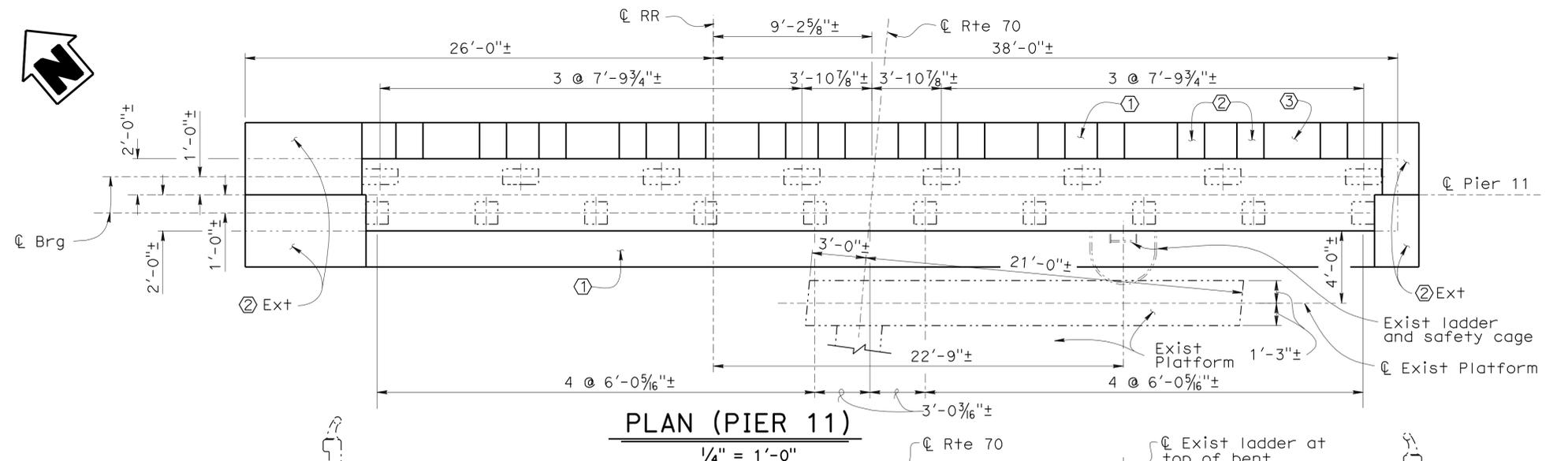
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	61	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE

5-21-12
 PLANS APPROVAL DATE

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David Soon
 No. 51862
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



- LEGEND:**
- ① Girder catcher / Pier seat extension.
 - ② Girder limit block
 - ③ Pier seat extension
 - Indicates existing
- NOTES:**
1. For "SECTION N-N, O-O, P-P, Q-Q and R-R, DETAIL P, DETAIL Q, DETAIL R, DETAIL S & DETAIL T", see "PIER 11 DETAILS No. 1" sheet.
 2. For "DETAIL Q - REINFORCEMENT", see "DETAIL U - REINFORCEMENT PIER 7" ON "PIER 7 DETAILS No. 2" sheet.
 3. For "SECTION P2-P2", "SECTION O2-O2 REINFORCEMENT" and "VIEW O3-O3 REINFORCEMENT", see "PIER 11 DETAILS No. 4" sheet.

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

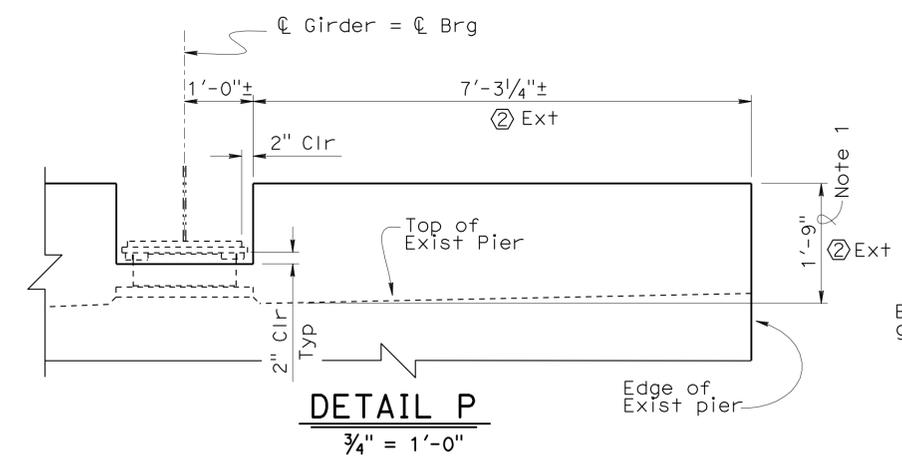
DESIGN	By David Soon	CHECKED	Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134	SEISMIC RETROFIT WEST BRANCH FEATHER RIVER BRIDGE APPROACH RETROFIT PIER 11 LAYOUT
DETAILS	By Bruno Jenko	CHECKED	Jun Ki Jung			POST MILE	28.2	
QUANTITIES	By Jun Ki Jung	CHECKED	E. Ortega Jr./D. Desai					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 CU 03227 UNIT: 3592
 EA 1E5101 PROJECT: 03 0000 0266
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

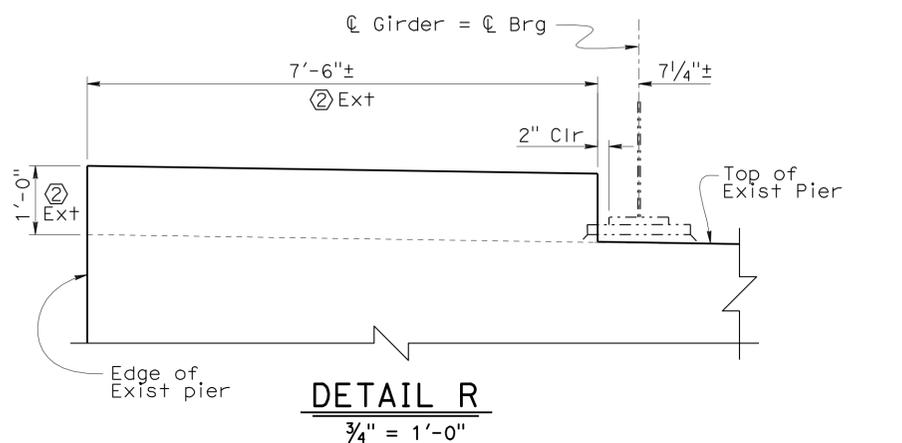
REVISION DATES	3-17-10	1-27-11	7-28-11	8-02-11	12-12-11	12-22-11		
SHEET	26	OF						60

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.07-24-06) FILE => 12-0134-f-p11_lo01.dgn

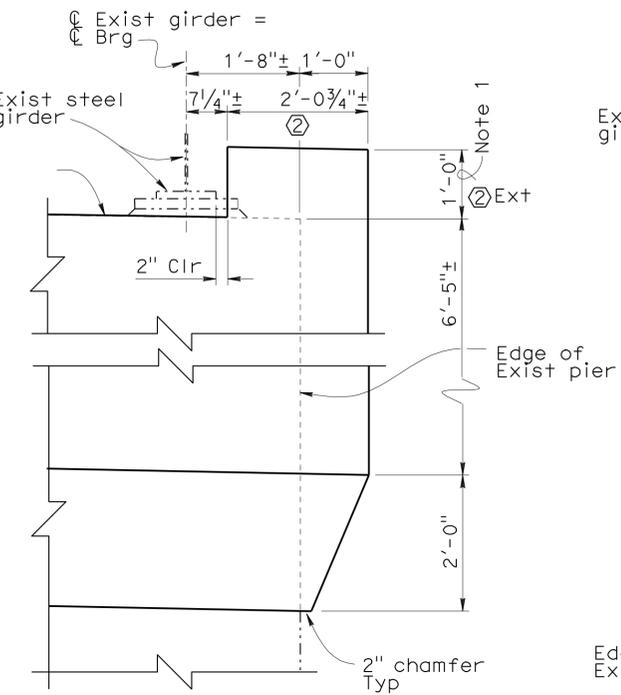
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	62	95
David Soon REGISTERED CIVIL ENGINEER DATE 1-6-12					
5-21-12 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



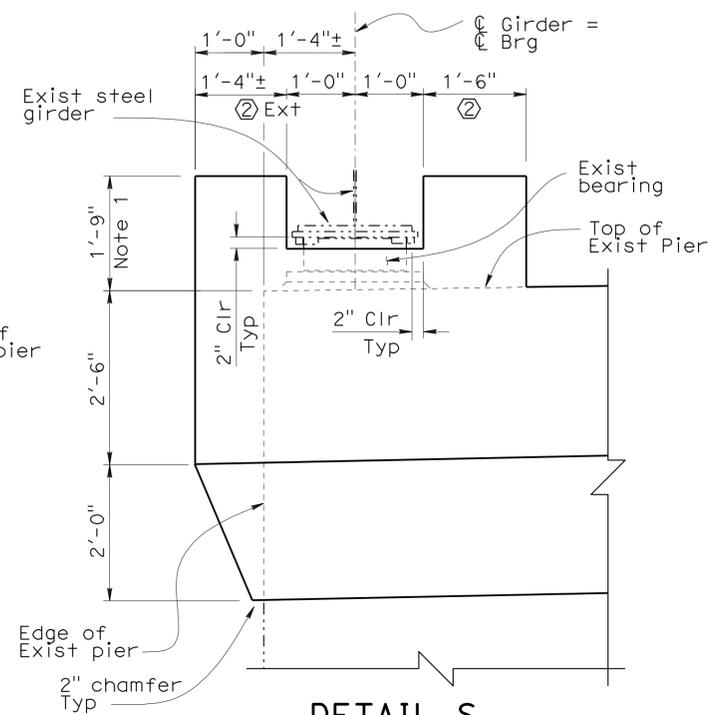
DETAIL P
3/4" = 1'-0"



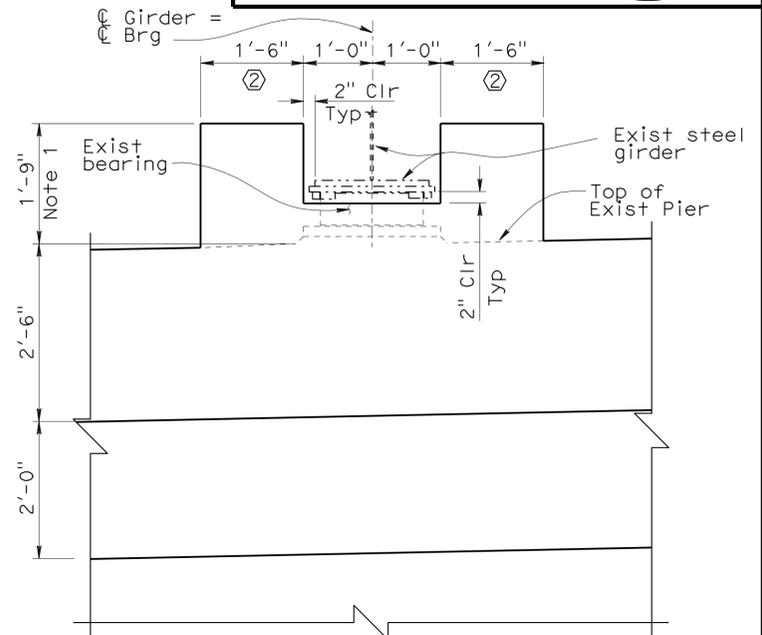
DETAIL R
3/4" = 1'-0"



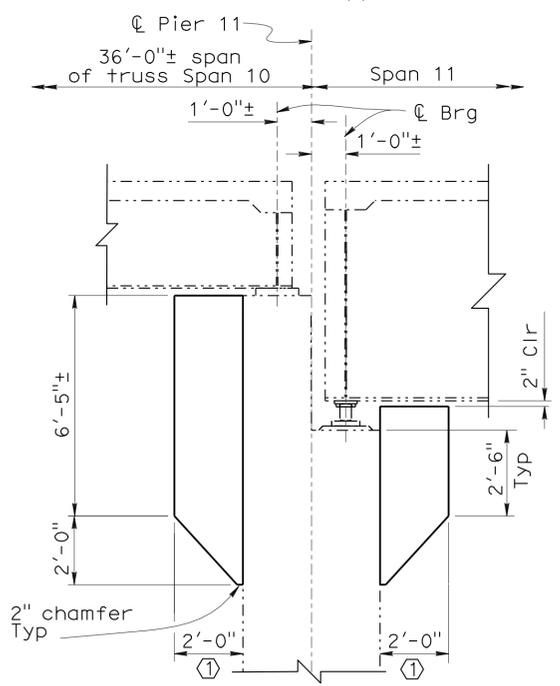
DETAIL Q
3/4" = 1'-0"



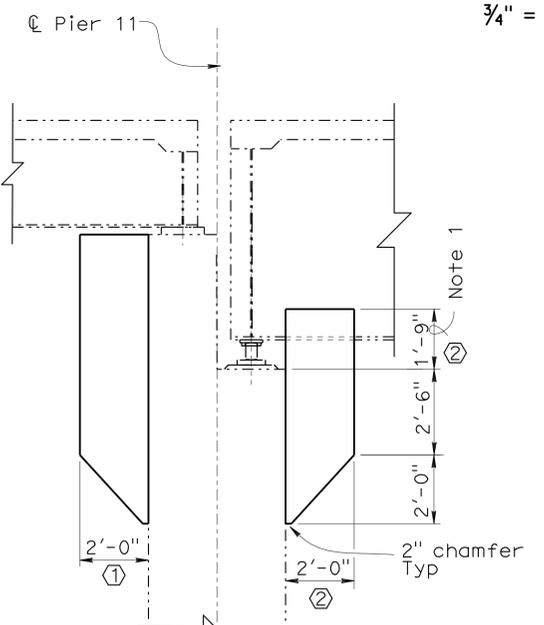
DETAIL S
3/4" = 1'-0"



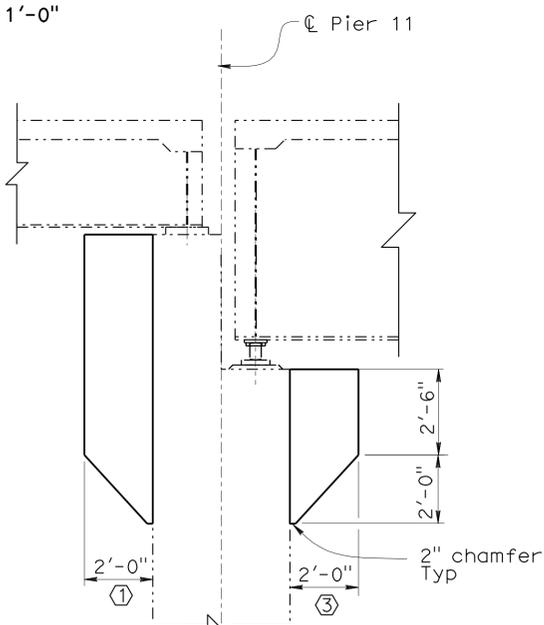
DETAIL T
3/4" = 1'-0"



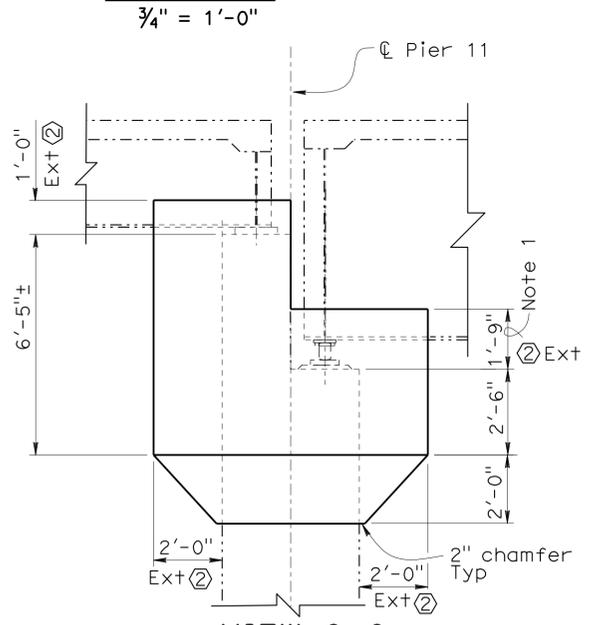
SECTION N-N
3/8" = 1'-0"



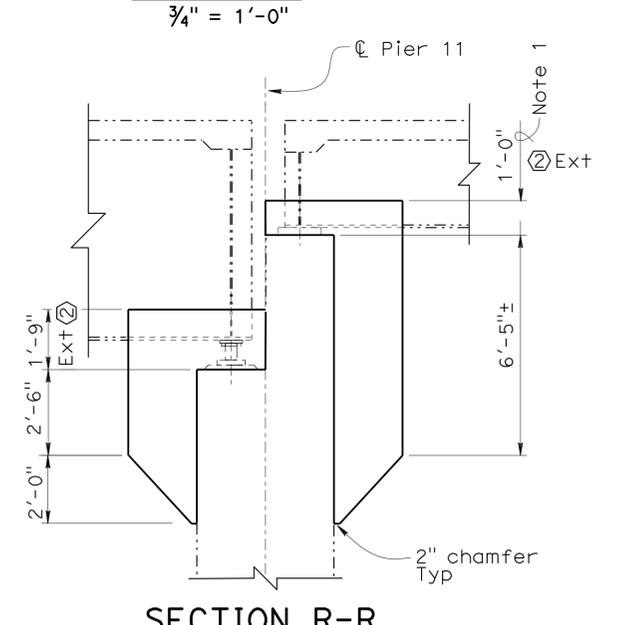
SECTION O-O
3/8" = 1'-0"



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



VIEW Q-Q
3/8" = 1'-0"



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

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

NOTE:
1. Measured along centerline of girder

- LEGEND:
- ① Girder catcher / Abut seat extension.
 - ② Girder limit block
 - ③ Pier seat extension
 - Indicates existing

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
APPROACH RETROFIT
PIER 11 DETAILS No. 1

DESIGN	BY David Soon	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO. 12-0134
POST MILE 28.2

CU 03227	UNIT: 3592	DISREGARD PRINTS BEARING EARLIER REVISION DATES
EA 1E5101	PROJECT: 03 0000 0266	REVISION DATES
		27
		60

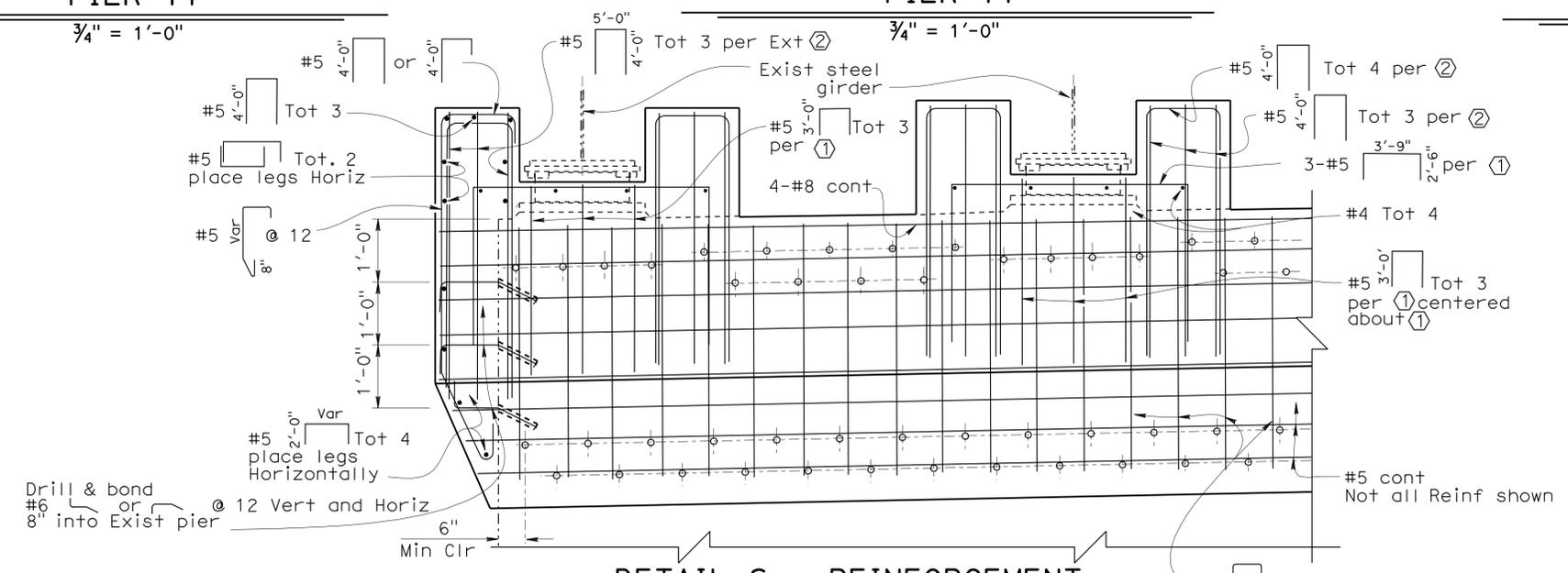
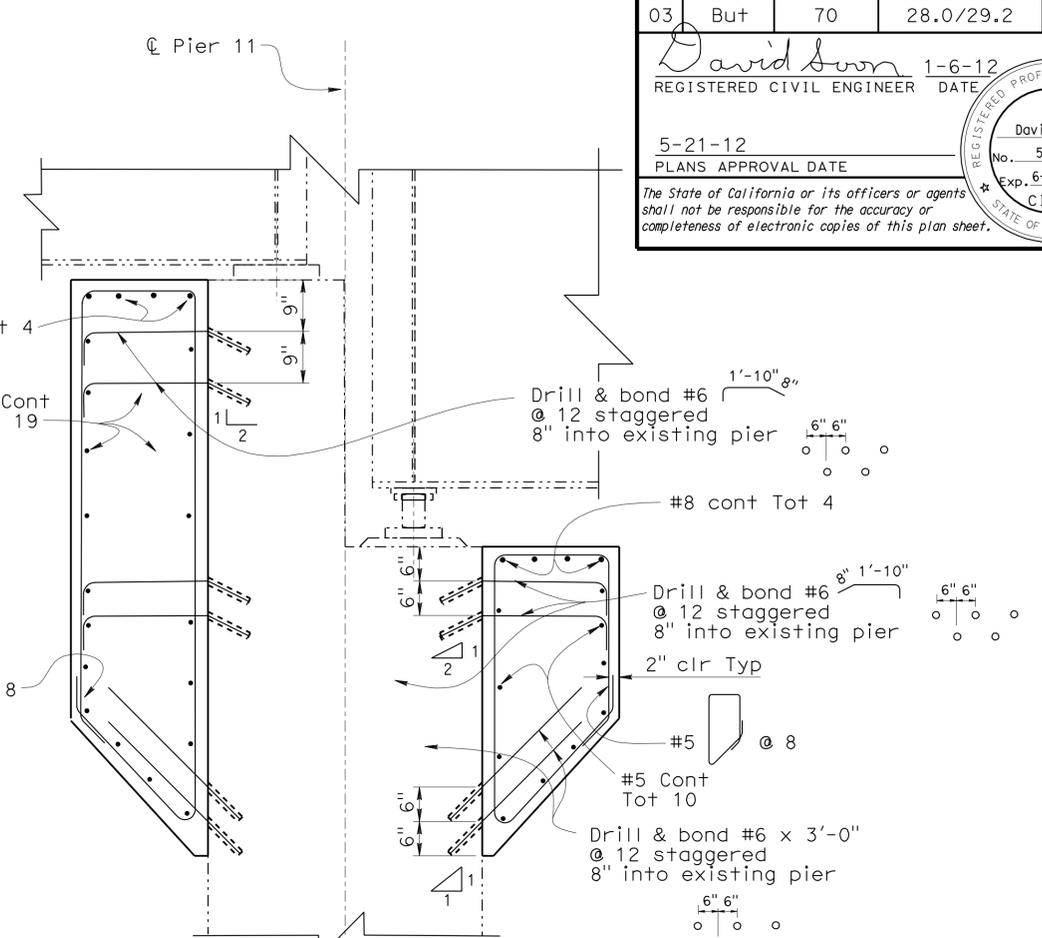
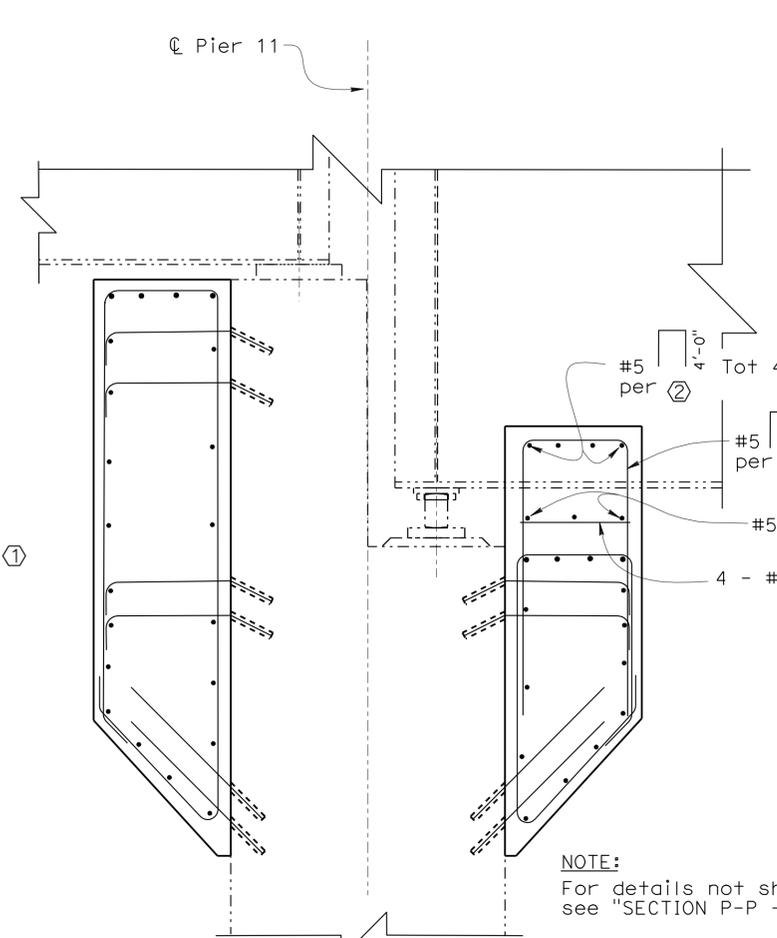
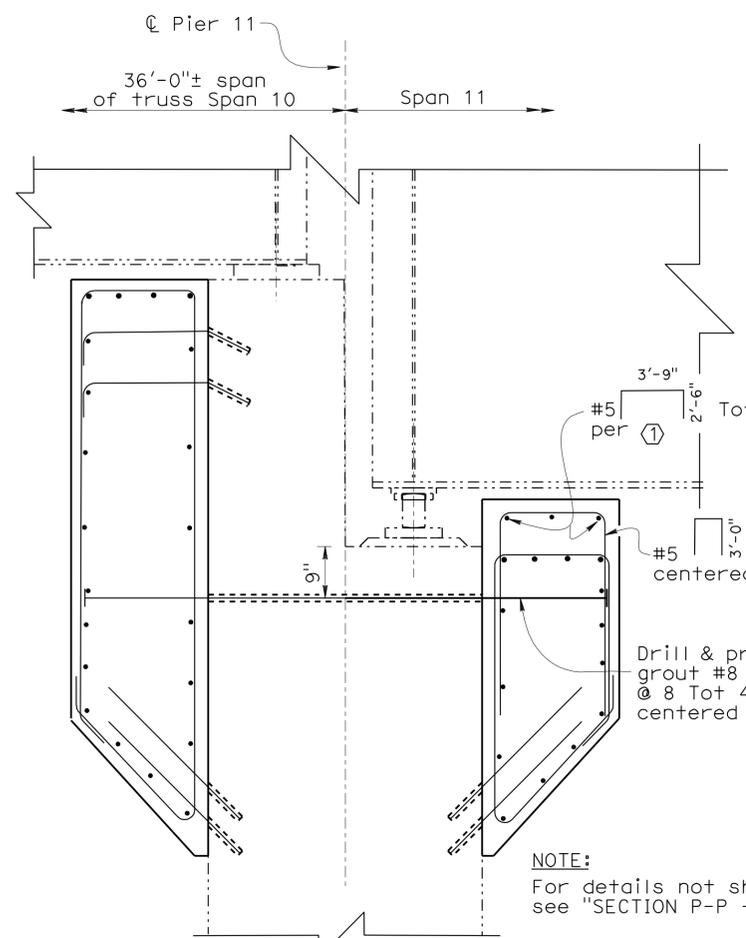
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	63	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE

5-21-12
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
 David Soon
 No. 51862
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



- LEGEND:**
- ① Girder catcher / Abut seat extension.
 - ② Girder limit block
 - ③ Pier seat extension
 - Indicates existing
 - Indicates headed bar reinforcement (both ends)

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

DESIGN	BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai			CU 03227 EA 1E5101	UNIT: 3592 PROJECT: 03 0000 0266

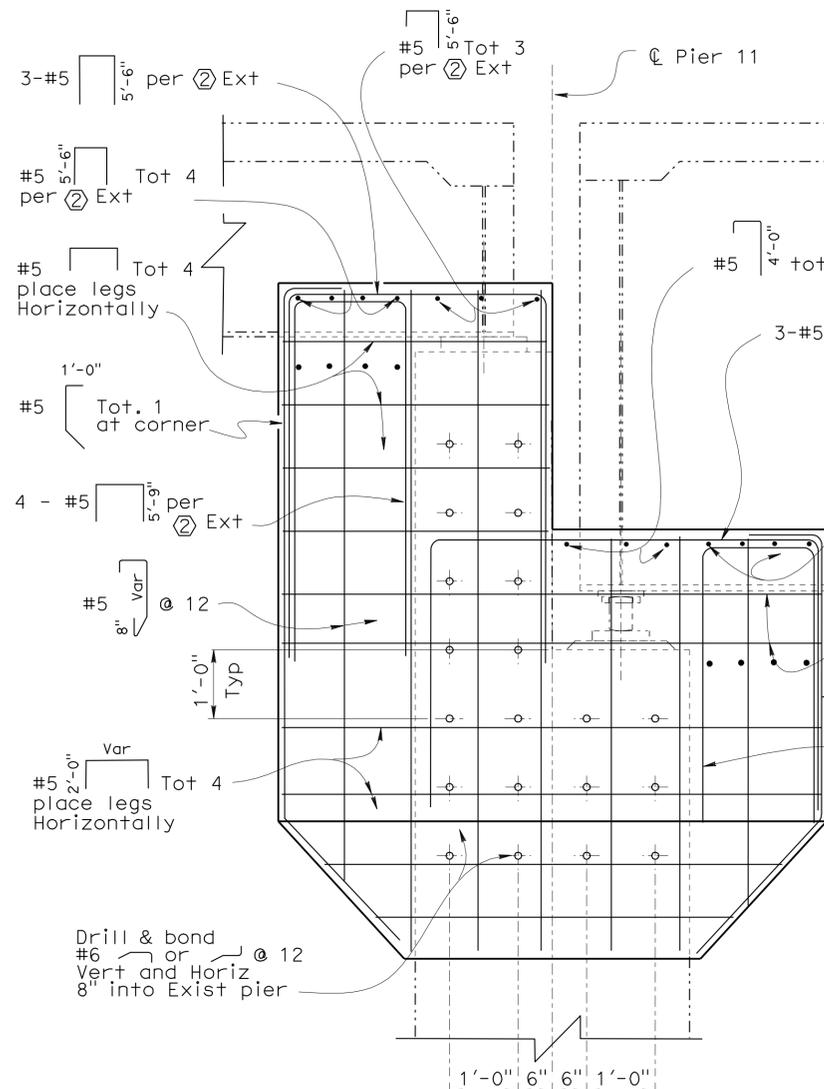
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DISREGARD PRINTS BEARING EARLIER REVISION DATES

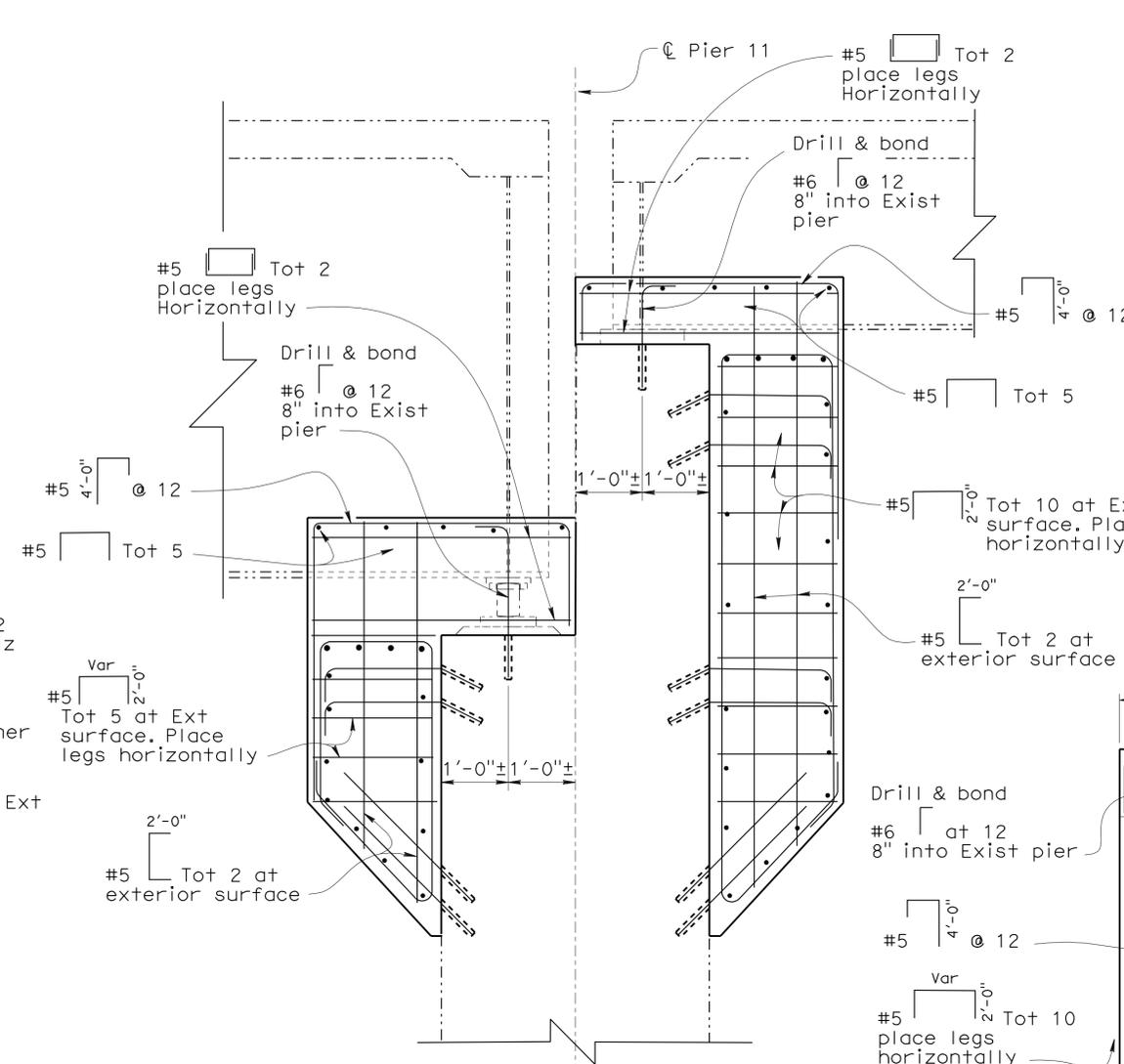
REVISION DATES: 3-17-10, 1-28-11, 8-02-11

SHEET 28 OF 60

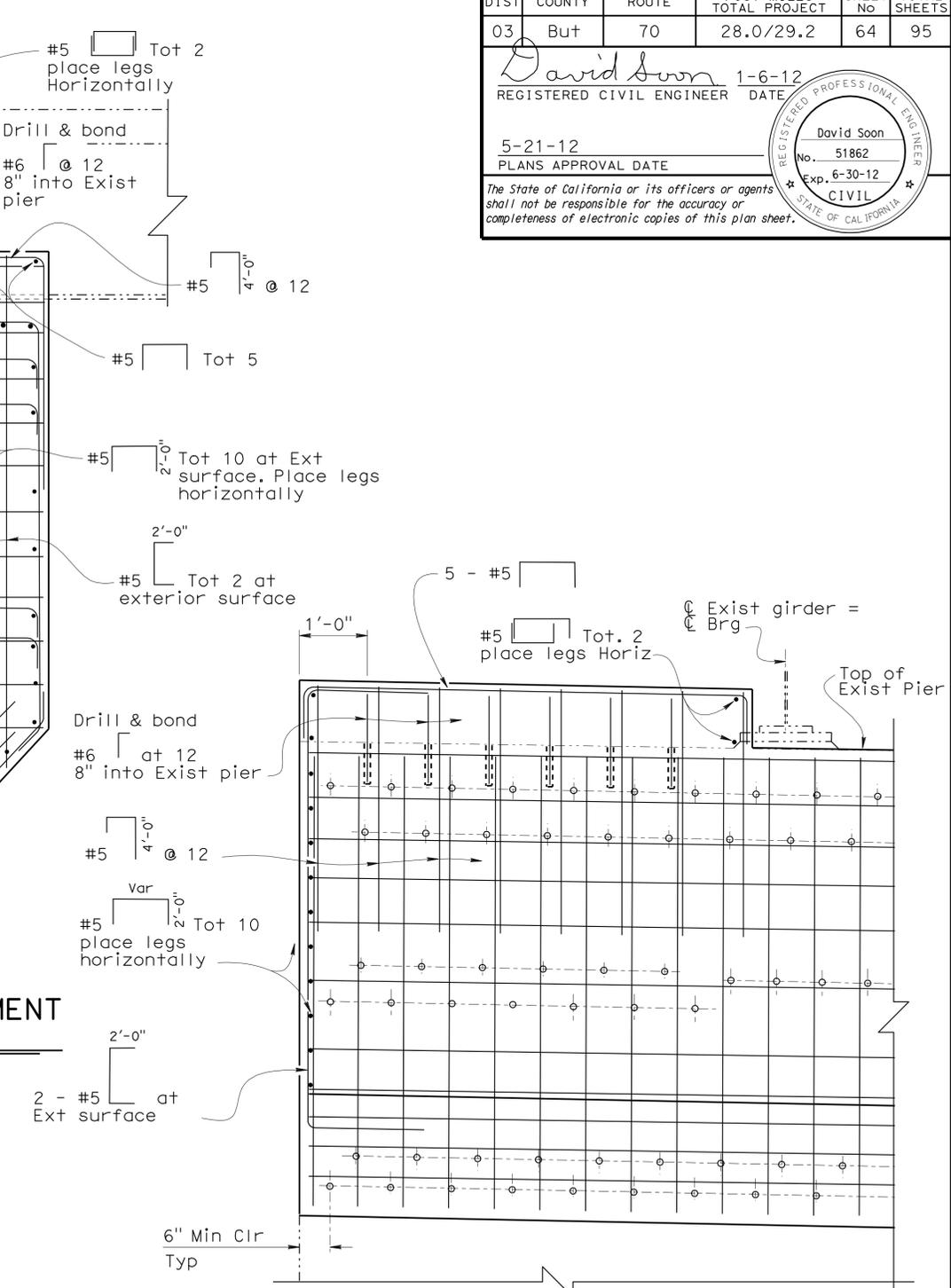
SEISMIC RETROFIT
 WEST BRANCH FEATHER RIVER BRIDGE
 APPROACH RETROFIT
 PIER 11 DETAILS No. 2



SECTION Q-Q - REINFORCEMENT PIER 11
 $\frac{3}{4}'' = 1'-0''$



SECTION R-R - REINFORCEMENT PIER 11
 $\frac{3}{4}'' = 1'-0''$



DETAIL R - REINFORCEMENT PIER 11
 $\frac{3}{4}'' = 1'-0''$

LEGEND:
 - - - - - Indicates existing
 ⊗ Girder limit block

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

DESIGN	BY David Soon	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

SEISMIC RETROFIT
 WEST BRANCH FEATHER RIVER BRIDGE
 APPROACH RETROFIT
 PIER 11 DETAILS No. 3

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

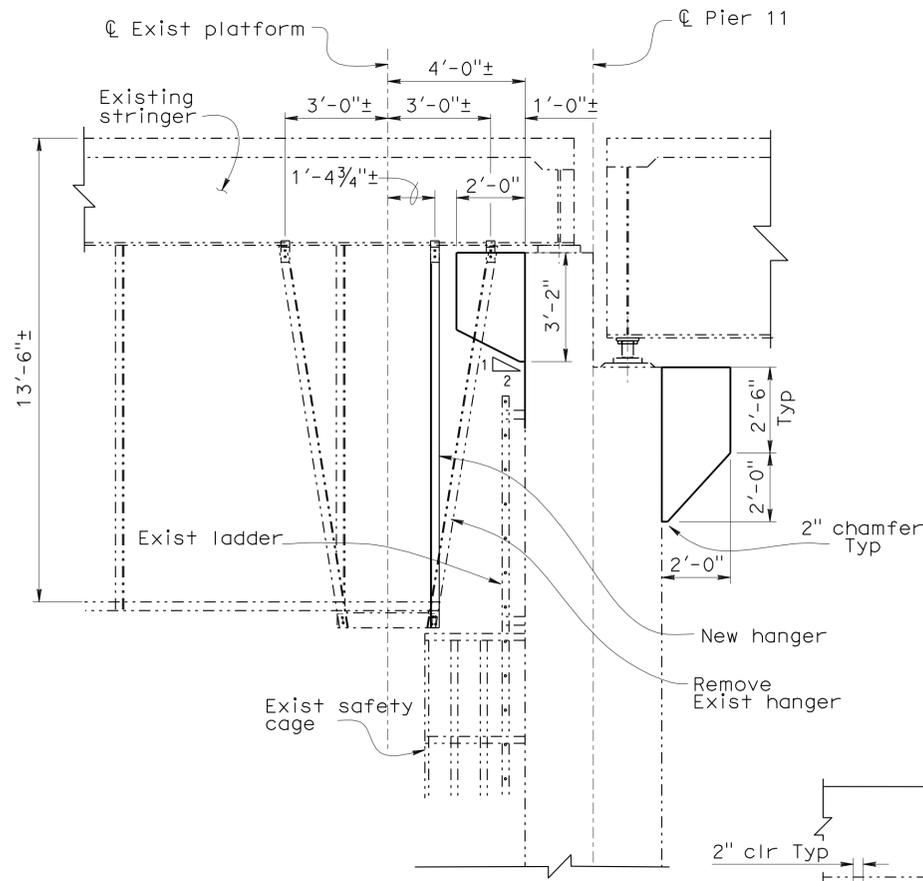
0 1 2 3

CU 03227 UNIT: 3592
 EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES

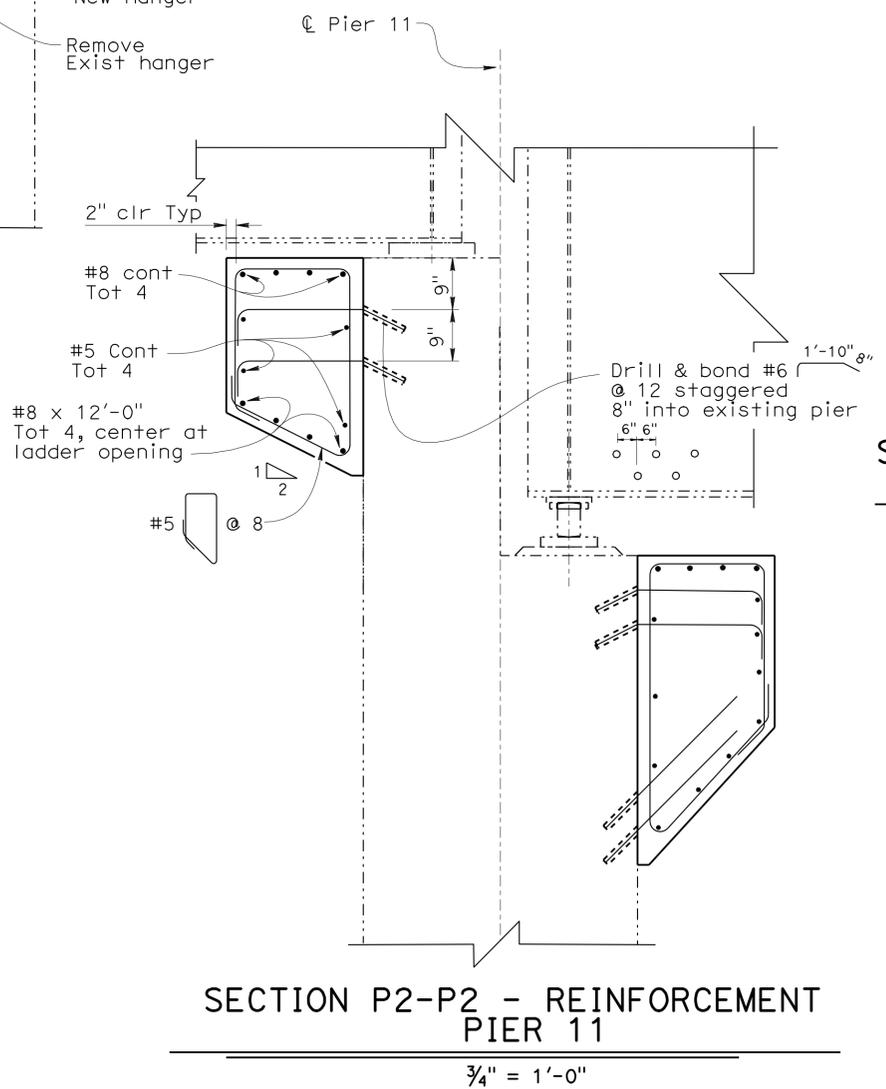
REVISION DATES	SHEET	OF
1-28-11 8-02-11 12-10-11	29	60

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	65	95
David Soon 1-6-12				REGISTERED CIVIL ENGINEER	DATE
5-21-12				PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.				REGISTERED PROFESSIONAL ENGINEER David Soon No. 51862 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA	



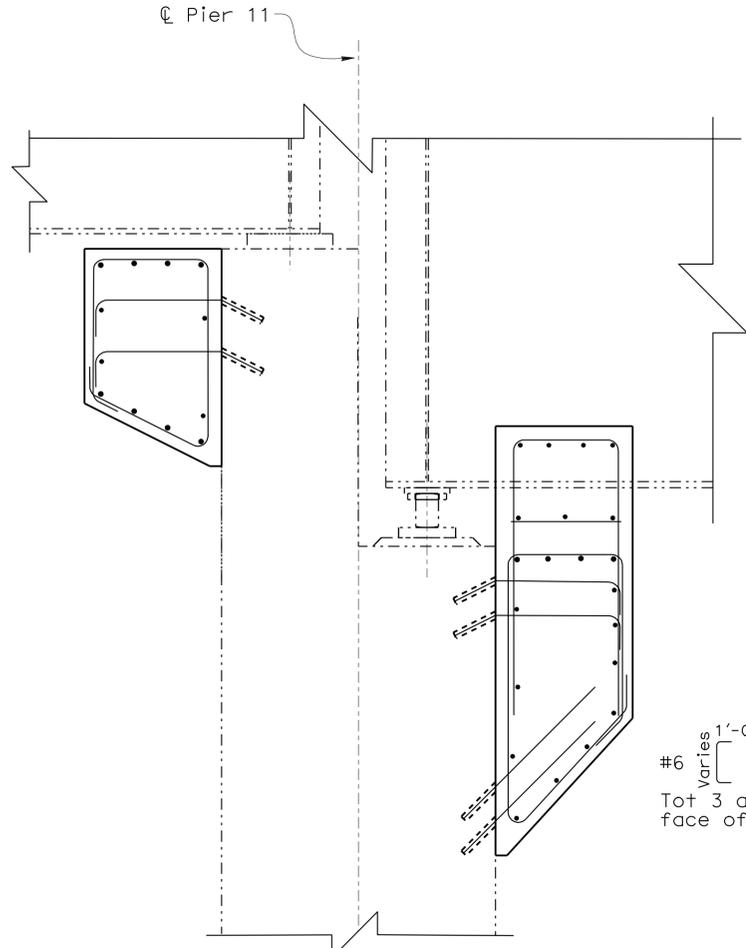
NOTE:
For details not shown,
see "PIER 7 DETAILS No. 3" sheet.

SECTION P2-P2
3/8" = 1'-0"



SECTION P2-P2 - REINFORCEMENT PIER 11
3/4" = 1'-0"

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

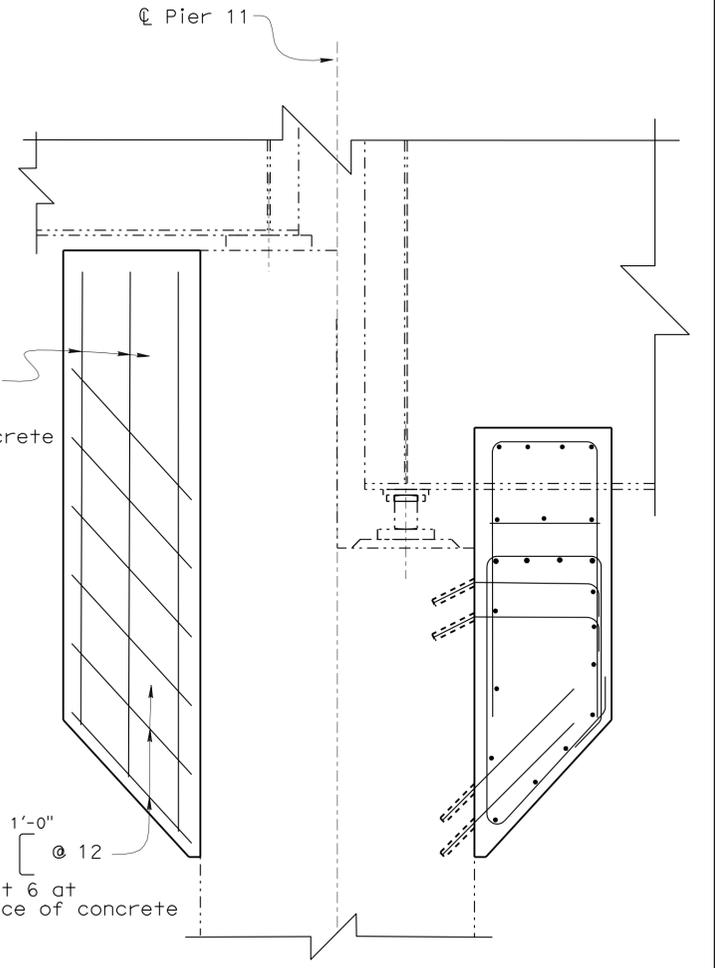


SECTION 02-02 - REINFORCEMENT PIER 11
3/4" = 1'-0"

NOTE:
For details not shown,
see "SECTION P2-P2 - REINF"

NOTE:
For limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge), see "LIMITS OF CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" detail on "INDEX TO PLANS" sheet.

LEGEND:
----- Indicates existing



VIEW 03-03 - REINFORCEMENT PIER 11
3/4" = 1'-0"

NOTE:
For details not shown,
see "SECTION P2-P2 - REINF"

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
APPROACH RETROFIT
PIER 11 DETAILS No. 4

DESIGN	BY David Soon	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY Jun Ki Jung	CHECKED E. Ortega Jr./D. Desai

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

CU 03227	UNIT: 3592
EA 1E5101	PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 30 OF 60
	6-30-11 7-28-11 8-22-11 12-10-11 12-22-11	

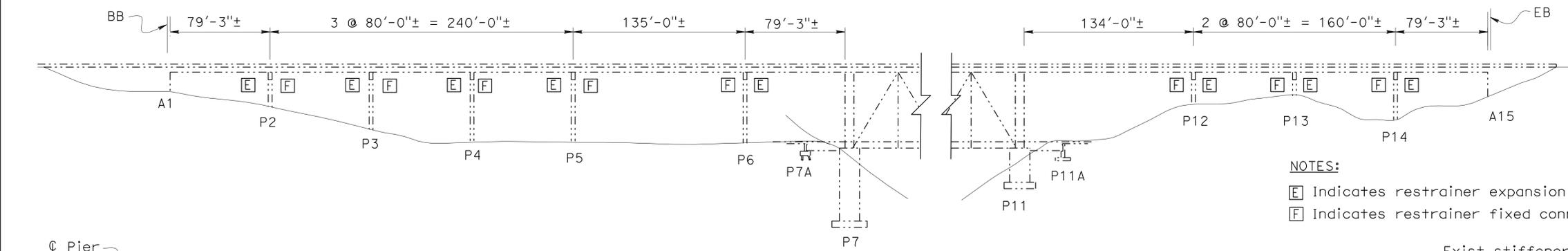
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Bu+	70	28.0/29.2	66	95

David Soon 1-6-12
REGISTERED CIVIL ENGINEER DATE

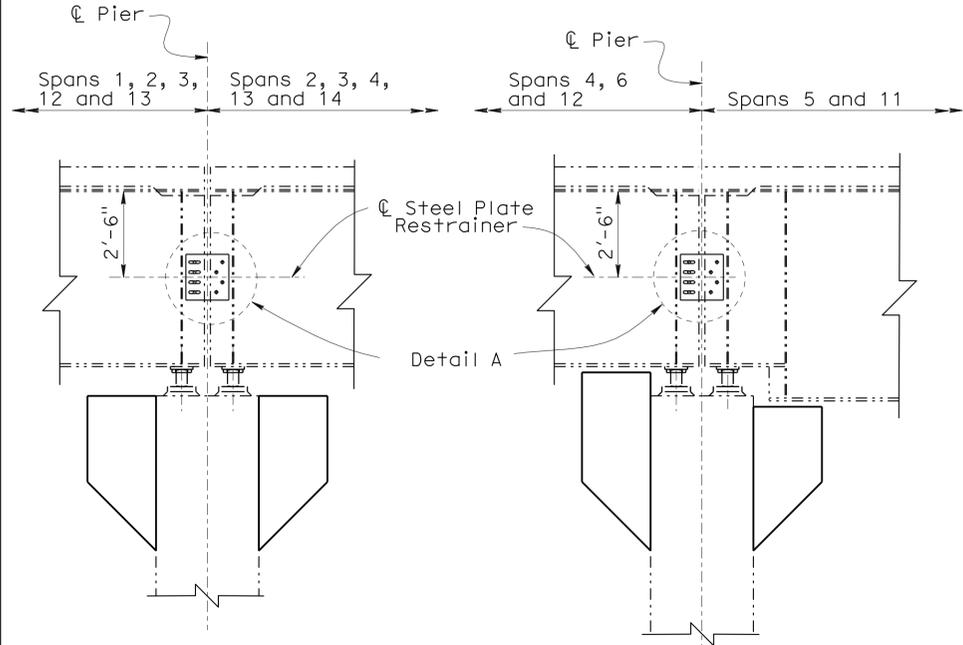
5-21-12
PLANS APPROVAL DATE

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David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA



STEEL PLATE RESTRAINER LAYOUT
1" = 50'

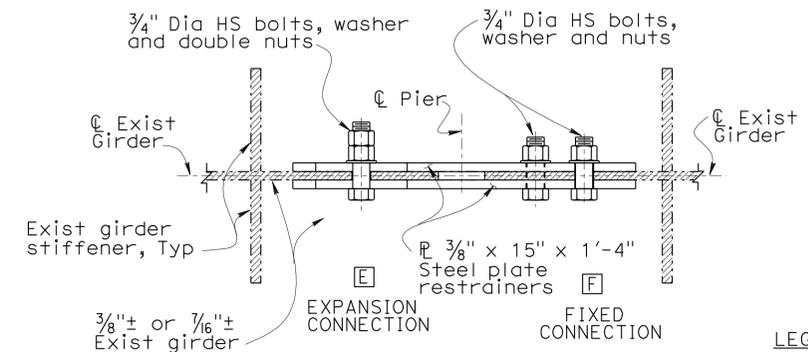


STEEL PLATE RESTRAINER DETAIL
3/8" = 1'-0"

Pier 2 shown, Pier 3, 4, 13 and 14 similar
Pier 5 shown, Pier 6 and 12 similar

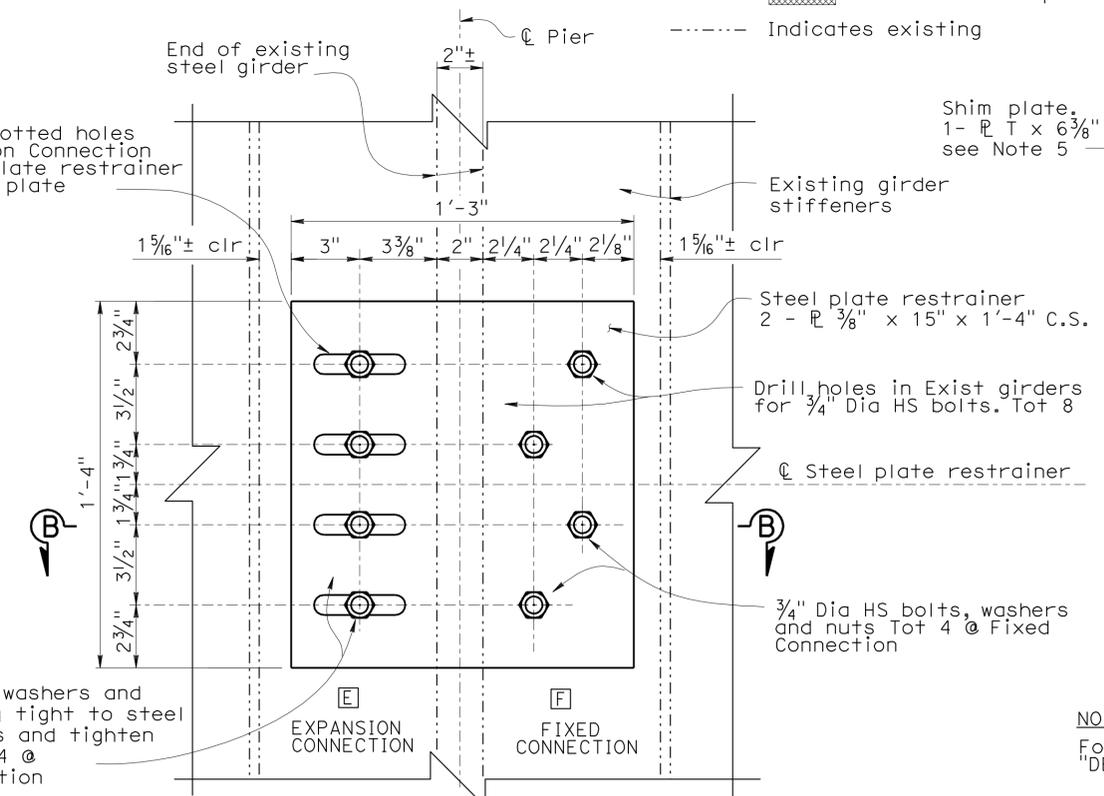
- NOTES:**
1. Install steel plate restrainers at Pier 2, 3, 4, 5, 6, 12, 13 and 14.
 2. Install steel plate restrainers at all girders.
 3. Steel plate restrainers and shim plates are A.S.T.M. A36 structural Carbon Steel (C.S.)
 4. Bolt heads shall be shown from outside of exterior girders.
 5. If existing girders do not line up to place steel plate restrainers, shim plates shall be used and tack-welded on existing girders, see "DETAIL A WITH SHIM PLATES". Dimension "T1", "T2", "T3" and "T4" shall be determined by the Engineer.
 6. For limits of Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge), see "LIMITS OF CLEAN AND PAINT UNDERCOAT AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" detail on "INDEX TO PLANS" sheet.

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

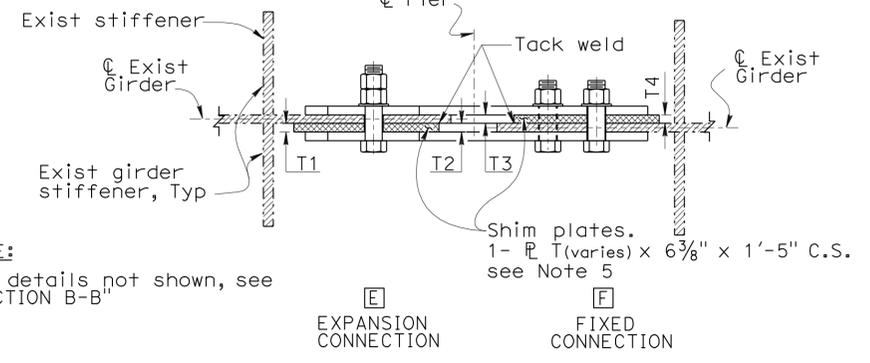


SECTION B-B
3" = 1'-0"

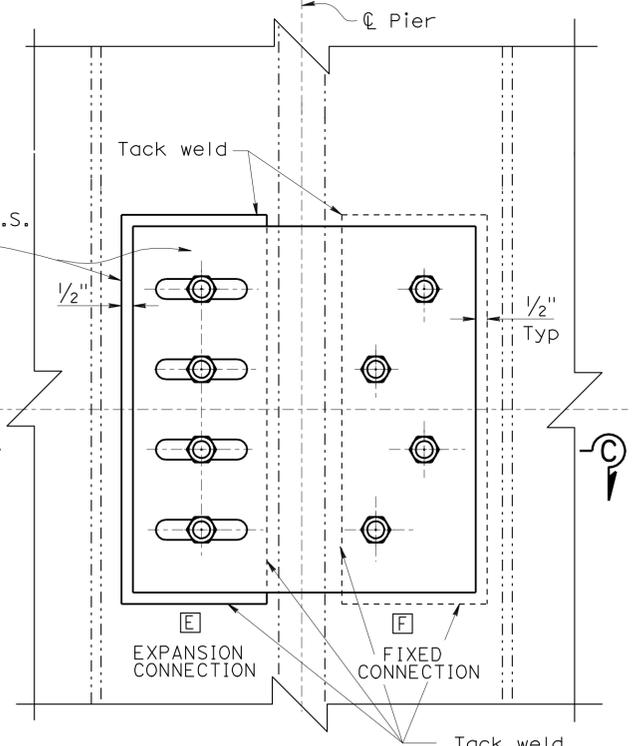
- LEGEND:**
- Indicates existing structure
 - Indicates shim plates
 - Indicates existing



DETAIL A
3" = 1'-0"



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



DETAIL A WITH SHIM PLATES
3" = 1'-0"

NOTE:
For details not shown, see "DETAIL A"

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
APPROACH RETROFIT
STEEL PLATE RESTRAINER DETAILS

DESIGN	BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED Sujon Talukder				

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

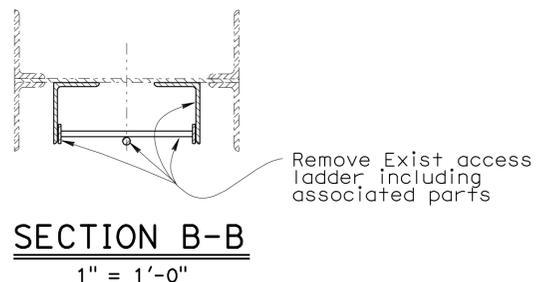
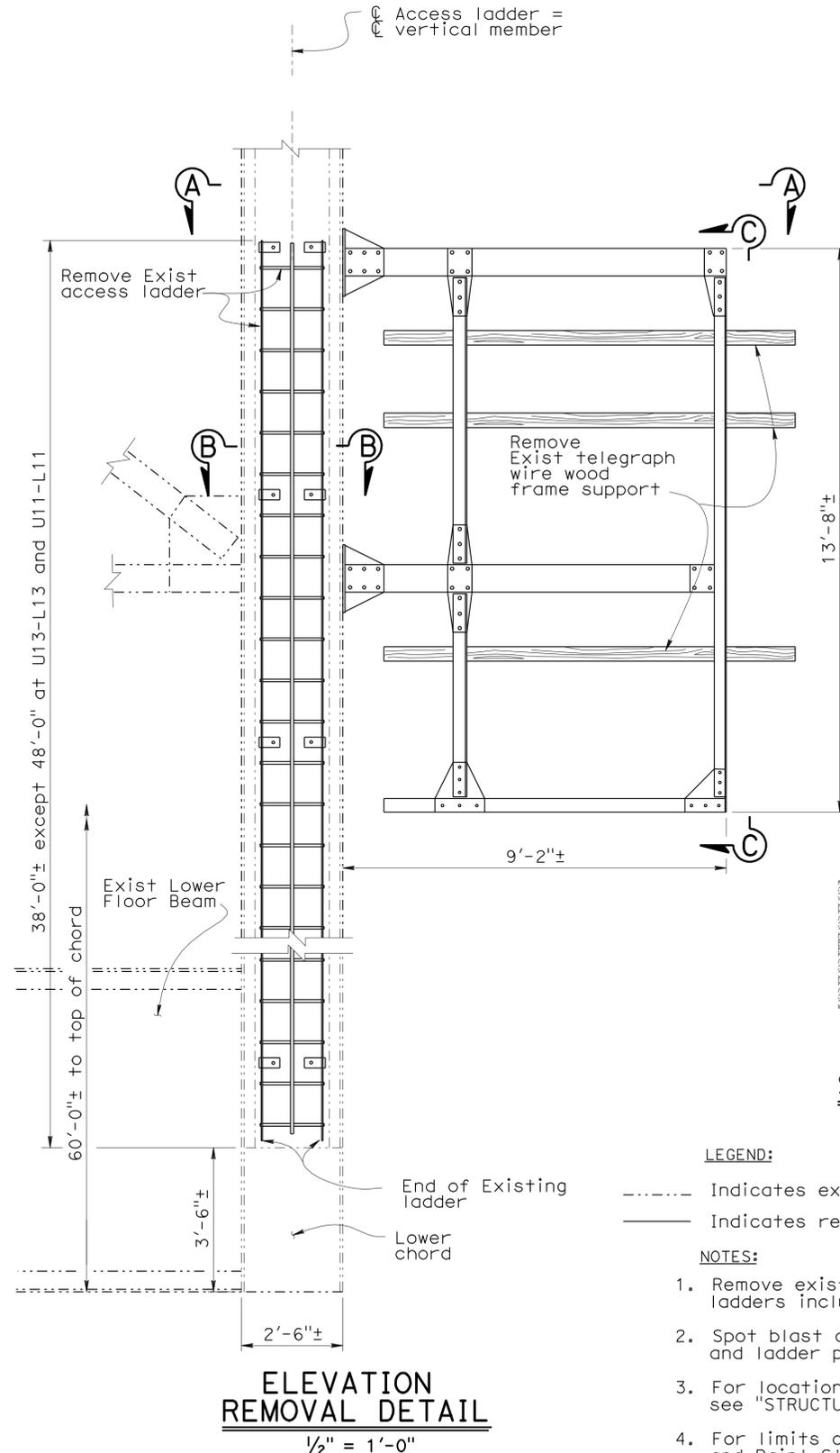
CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	3-17-10	5-24-10	5-25-11	12-10-11	12-12-11	12-22-11			
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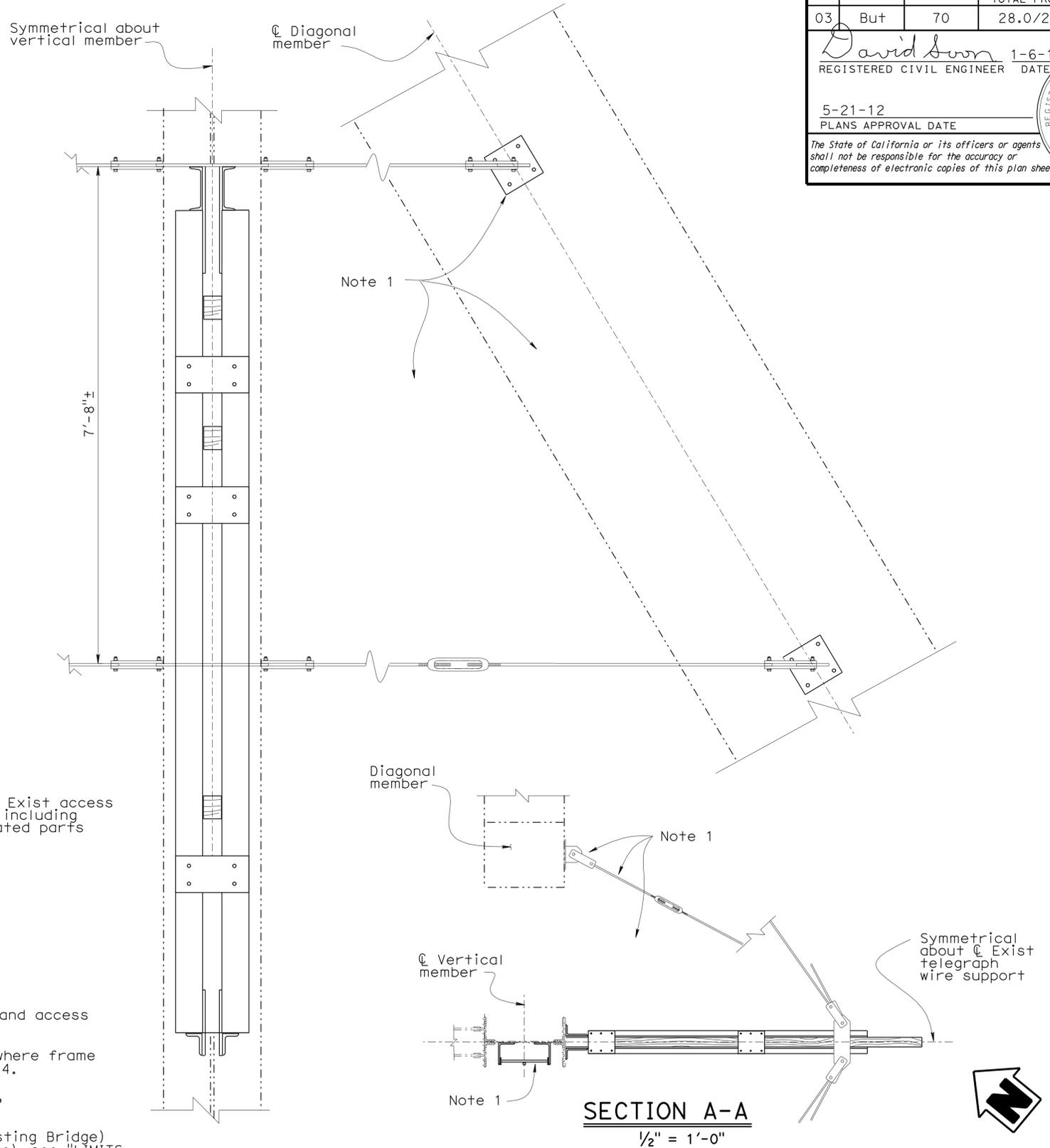
SHEET 31 OF 60

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	67	95
David Soon 1-6-12				REGISTERED CIVIL ENGINEER	DATE
5-21-12				PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



- LEGEND:**
- Indicates existing
 - Indicates removal this sheet only
- NOTES:**
1. Remove existing telegraph wire supports and access ladders including associated parts.
 2. Spot blast clean and paint at locations where frame and ladder previously attached. See Note 4.
 3. For locations of telegraph wire supports, see "STRUCTURE PLAN No. 2" sheet.
 4. For limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge), see "LIMITS OF CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" detail on "INDEX TO PLANS" sheet.
 5. Remove 420 existing rivets.

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



SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
TRUSS REHABILITATION	
TELEGRAPH FRAME REMOVAL DETAILS	

DESIGN	BY Jun Ki Jung	CHECKED David Soon	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED David Soon			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED Dhvani Desai				

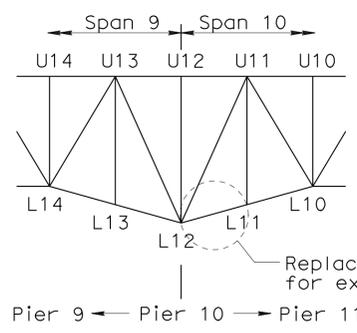
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	BuT	70	28.0/29.2	68	95

David Soon 1-6-12
REGISTERED CIVIL ENGINEER DATE

5-21-12
PLANS APPROVAL DATE

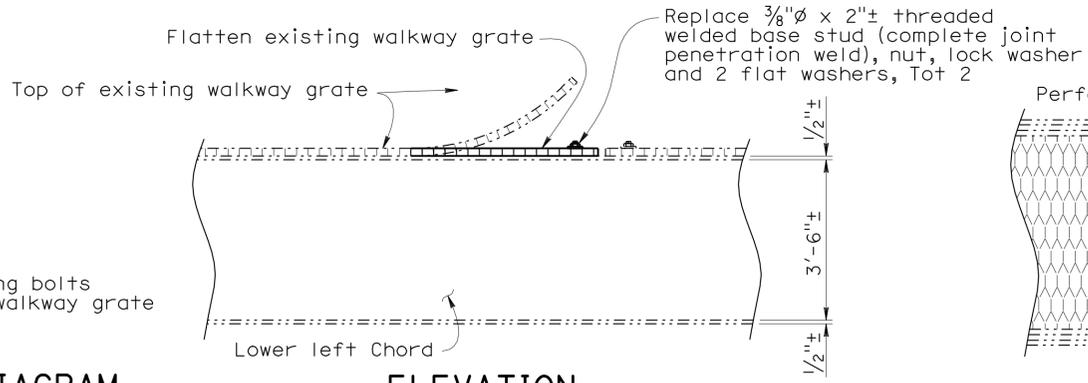
David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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WALKWAY LOCATION KEY DIAGRAM

NOTE:
Only left truss is shown

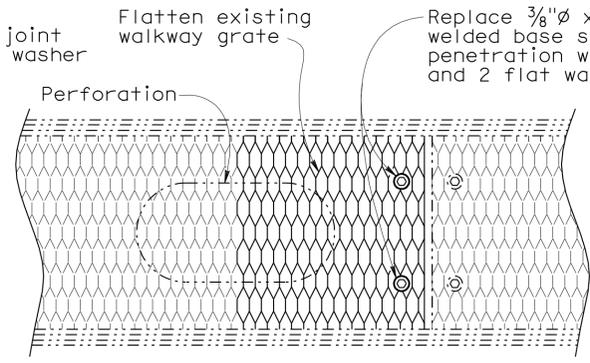


ELEVATION

NOTE:
Lower Chord rivets are not shown

RECONSTRUCT METAL WALKWAY GRATE

No Scale



PLAN

NOTES:

- For Panel point location of lower floor beam, see "TRUSS SPANS LAYOUT" sheet.
- Exact locations and number of replace missing or damaged rivets to be determined by the Engineer.
- For limits of Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge), see "LIMITS OF SPOT BLAST CLEAN AND PAINT UNDERCOAT AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" on "INDEX TO PLANS" sheet.
- Remove 25 existing rivets.

LEGEND:

- Indicates existing
- ⊙ Indicates replace missing or damaged rivets with 7/8" HS bolts, nuts and washers. Holes to be reamed.

SPAN 7

LOWER FLOOR BEAM		NUMBER OF MISSING OR DAMAGED RIVETS				SUB-TOTAL
		OL	IL	IR	OR	
Panel point	P7 L15''	0	0	0	0	0
	L16	0	1	0	0	1
	L17	0	1	2	0	3
	L18	1	1	0	0	2
	L19	0	1	0	0	1
	L20	1	1	1	0	3
	L19'	1	1	0	0	2
	L18'	1	1	0	1	3
	L17'	0	2	2	0	4
	L16'	1	0	0	0	1
	P8 L15'	0	2	0	0	2
TOTAL					24	

SPAN 8

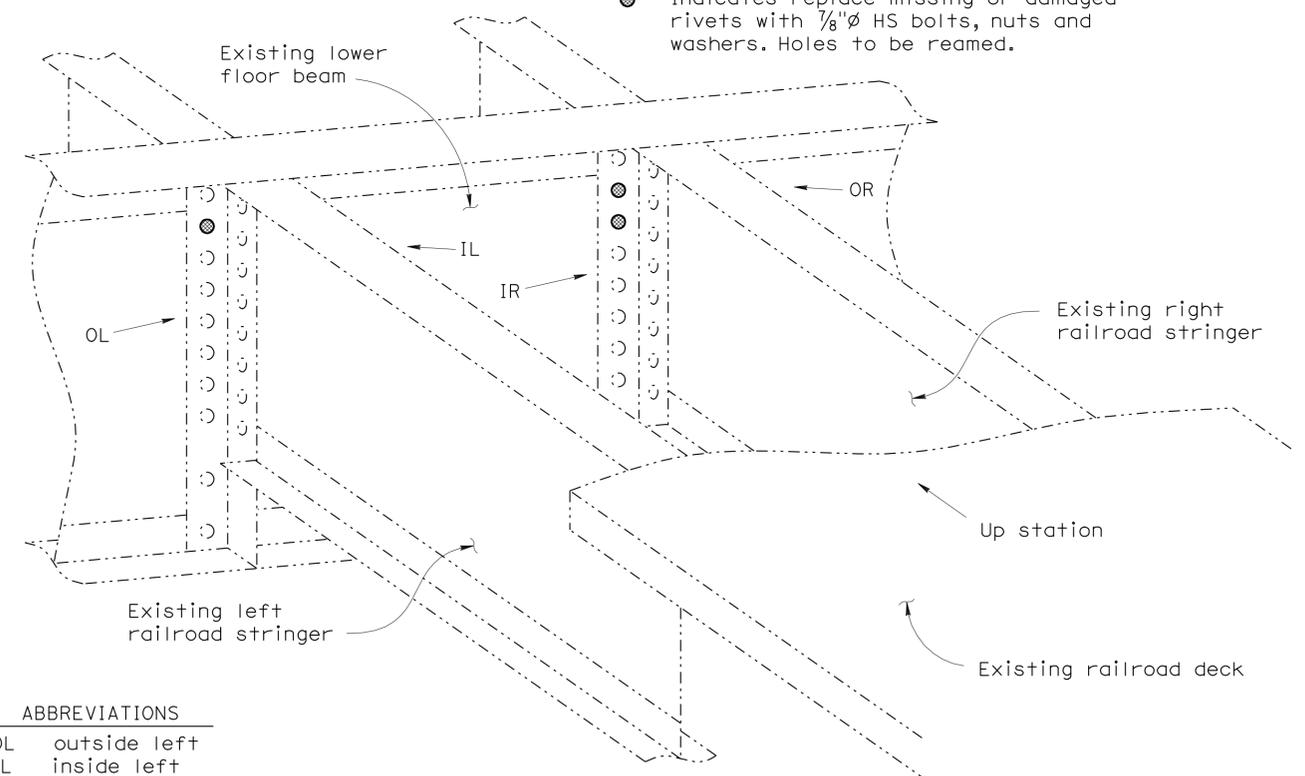
LOWER FLOOR BEAM		NUMBER OF MISSING OR DAMAGED RIVETS				SUB-TOTAL
		OL	IL	IR	OR	
Panel point	P8 L0	2	0	2	0	4
	L1	1	1	0	1	3
	L2	1	1	0	0	2
	L3	1	1	1	0	3
	L4	1	2	1	1	5
	L5	0	2	0	0	2
	L6	1	1	1	0	3
	L7	1	0	0	1	2
	L8	1	2	1	0	4
	L9	0	0	0	0	0
	L10	1	1	2	0	4
	L11	0	0	1	0	1
TOTAL					33	

SPAN 9

LOWER FLOOR BEAM		NUMBER OF MISSING OR DAMAGED RIVETS				SUB-TOTAL
		OL	IL	IR	OR	
Panel point	P9 L12	0	0	3	1	4
	L13	0	0	0	0	0
	L14	1	1	1	0	3
	L15	0	0	0	0	0
	L16	0	0	0	0	0
	L17	2	1	0	0	3
	L18	1	1	0	0	2
	L19	0	0	0	0	0
	L20	0	1	1	0	2
	L19	0	0	0	0	0
	L18	1	2	0	0	3
	L17	1	1	0	0	2
	L16	0	1	0	0	1
	L15	0	0	2	0	2
	L14	0	0	0	0	0
	L13	0	0	0	0	0
	TOTAL					22

SPAN 10

LOWER FLOOR BEAM		NUMBER OF MISSING OR DAMAGED RIVETS				SUB-TOTAL
		OL	IL	IR	OR	
Panel point	P10 L12	0	0	0	0	0
	L11	0	0	0	0	0
	L10	2	1	1	0	4
	L9	2	2	0	0	4
	L8	1	3	2	1	7
	L7	0	1	0	0	1
	L6	1	1	1	0	3
	L5	0	0	0	0	0
	L4	0	1	0	0	1
	L3	0	0	0	0	0
	L2	1	0	0	0	1
L1	1	1	0	0	2	
P11 L0'	0	0	0	0	0	
TOTAL					23	



REPLACE MISSING OR DAMAGED RIVETS WITH HS BOLTS DETAIL

No Scale

- ABBREVIATIONS**
- OL outside left
 - IL inside left
 - IR inside right
 - OR outside right
 - P7 Pier 7

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

NOTE:
Not all existing rivets or bolts are shown.

SEISMIC RETROFIT

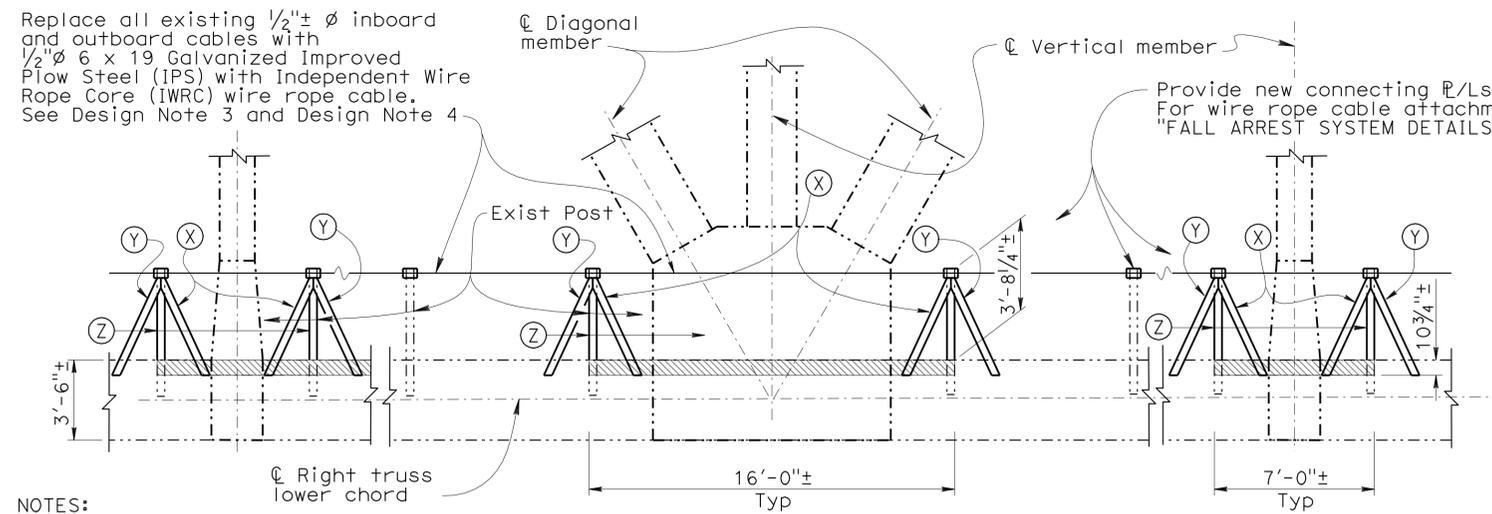
WEST BRANCH FEATHER RIVER BRIDGE

TRUSS REHABILITATION

RIVET REPLACEMENT DETAILS

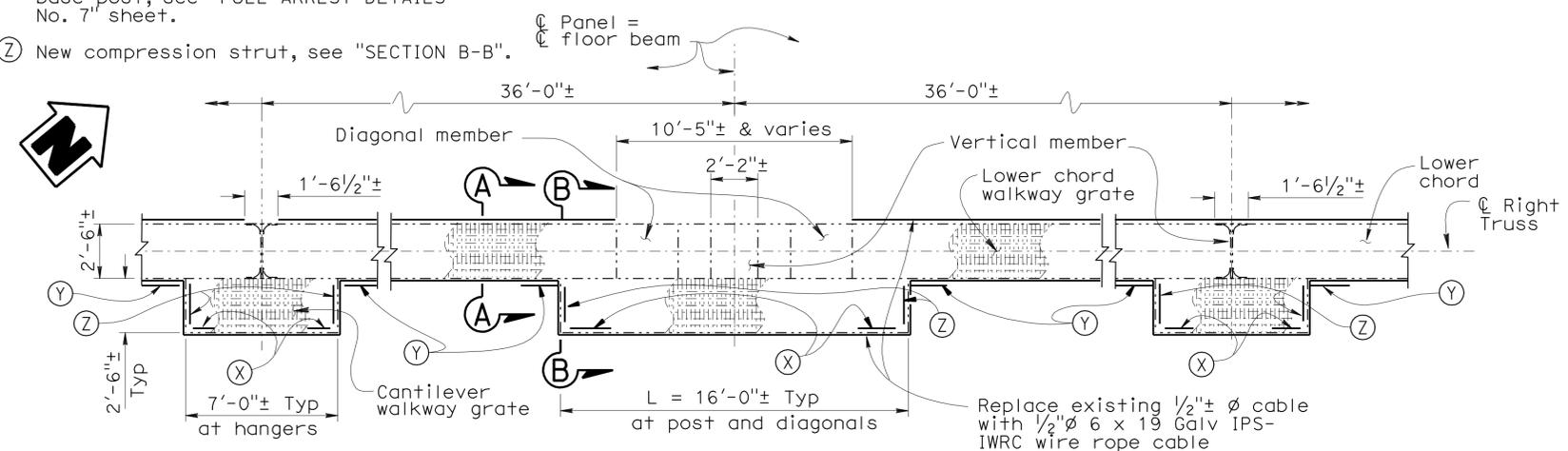
DESIGN	BY Jun Ki Jung / Matt Solano	CHECKED David Soon	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	12-0134
DETAILS	BY Gerald Dickerson	CHECKED David Soon		POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED Dhvani Desai		DESIGN BRANCH 7	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	69	95
David Soon 1-6-12 REGISTERED CIVIL ENGINEER DATE					
5-21-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



ELEVATION
NO SCALE

- NOTES:
- (X) New compression strut attached to cantilever edge post, see "FULL ARREST DETAILS No. 7" sheet.
 - (Y) New compression strut attached to cantilever base post, see "FULL ARREST DETAILS No. 7" sheet.
 - (Z) New compression strut, see "SECTION B-B".



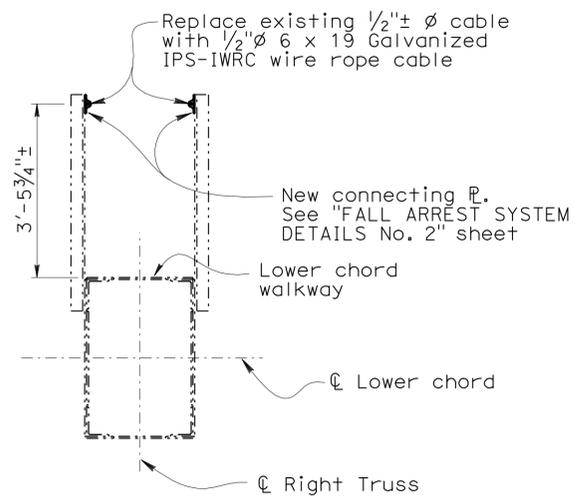
PLAN
NO SCALE

- DESIGN NOTES:
- High strength bolts are ASTM A325.
 - New structural steel Plates and Angles are ASTM A36, galvanized.
 - Minimum wire rope cable breaking strength shall be 20,000 pounds. Wire rope cable shall be free of kinks, knots or deformations. Wire rope cable shall not be prestretched.
 - New wire rope cable designed as a Fall Arrest Anchorage Point, according to California Code of Regulations, Title 8, Section 1670.
 - The slack in the new wire rope cable shall be removed by a Tensile Force of 50 pounds and confirmed by the Engineer prior to tightening the u-bolt wire rope clips. Typical at all attachments.
 - For limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge), see "LIMITS OF CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" on "INDEX TO PLANS" sheet.

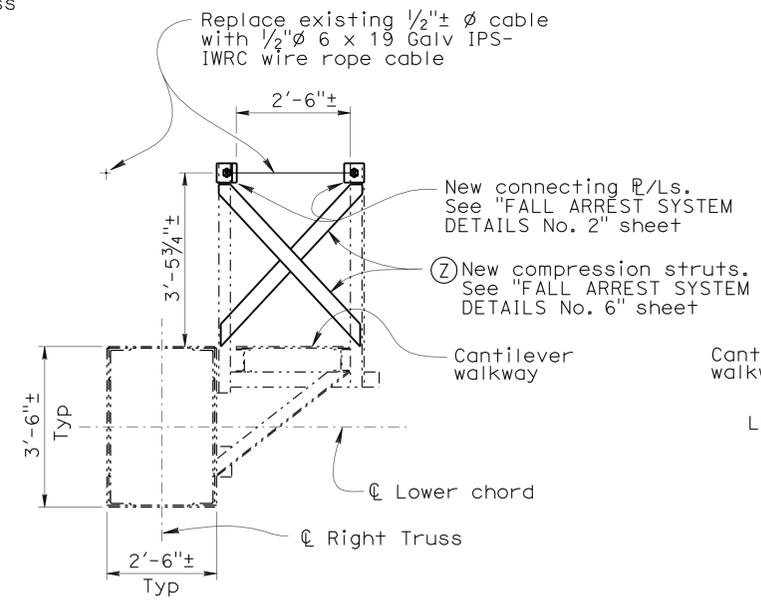
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LOWER CHORD - WALKWAY

NOTE: Right walkway shown, left similar.

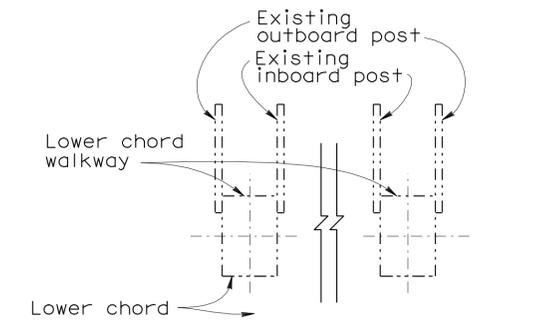


SECTION A-A
1/2" = 1'-0"

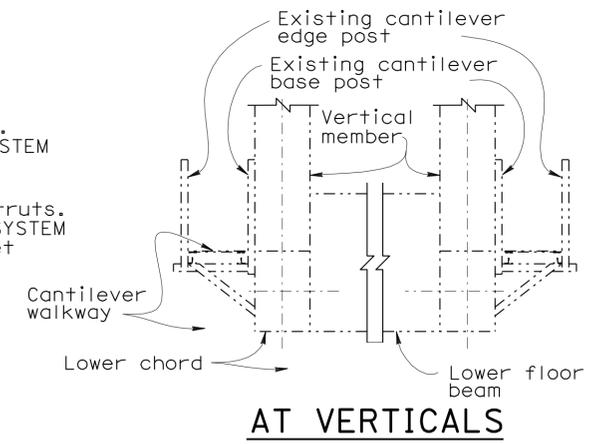


SECTION B-B
1/2" = 1'-0"

- NOTES:
- Bolts and rivets not shown.
 - Existing grating material details not shown.
- LEGEND:
- Indicates existing.
 - ▨ Indicates existing cantilever walkway.



BETWEEN VERTICALS



AT VERTICALS

LEFT TRUSS RIGHT TRUSS
(LOOKING UPSTATION)

NAMING CONVENTION FOR FALL ARREST SYSTEM

No Scale

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
TRUSS REHABILITATION	
FALL ARREST SYSTEM DETAILS No. 1	

DESIGN	BY DS / JW / EO Jr.	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	12-0134
DETAILS	BY Gerald Dickerson	CHECKED Jun Ki Jung		DESIGN BRANCH	7
QUANTITIES	BY Eduardo Ortega Jr.	CHECKED Rakesh Deo		POST MILE	28.2

USERNAME => s123631 DATE PLOTTED => 25-MAY-2012 TIME PLOTTED => 15:51

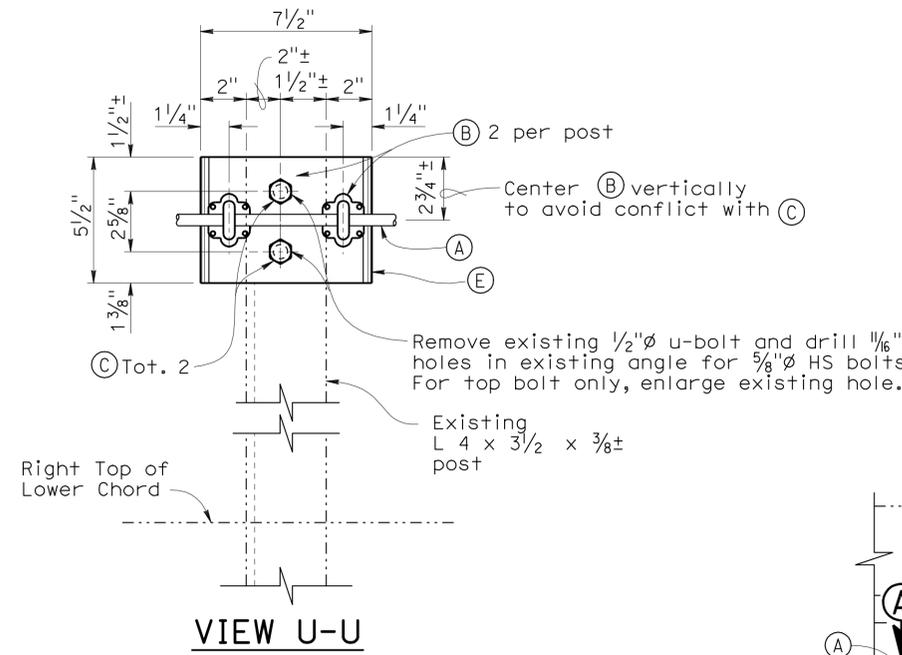
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	70	95

David Soon 1-6-12
REGISTERED CIVIL ENGINEER DATE

5-21-12
PLANS APPROVAL DATE

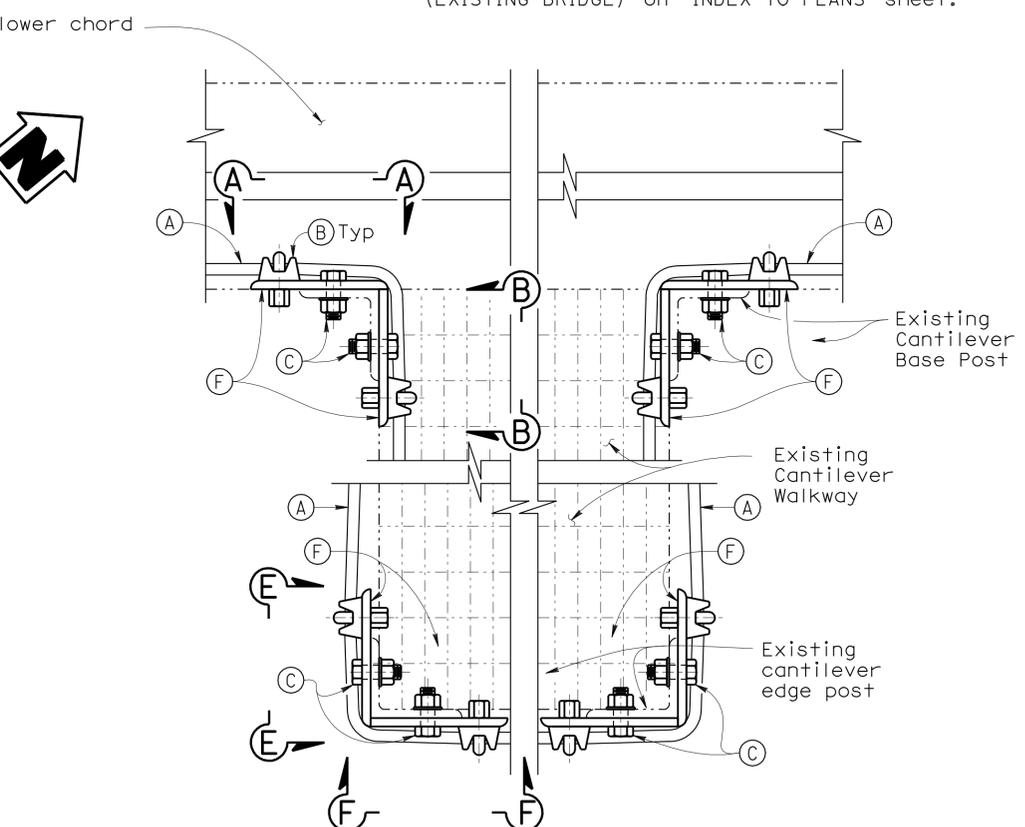
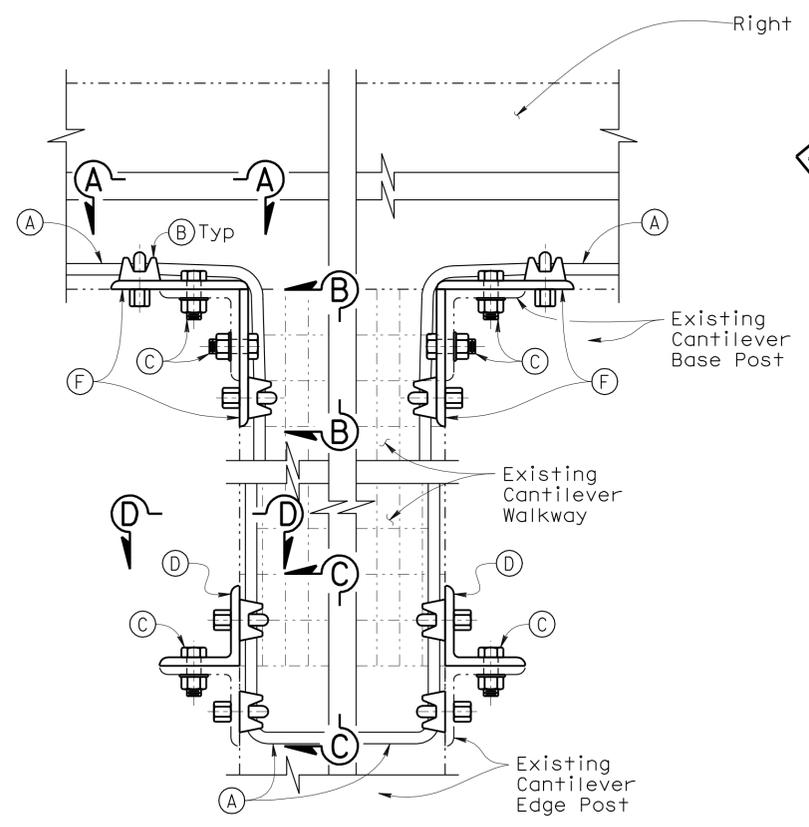
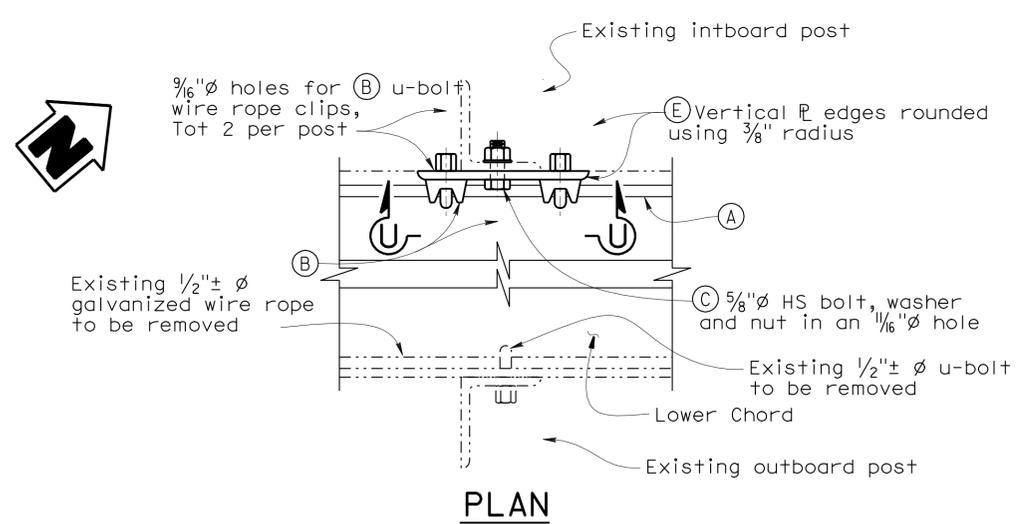
David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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- LEGEND:
- Indicates existing
 - (A) 1/2" ϕ 6 x 19 galvanized IPS-IWRC wire rope cable
 - (B) 1/2" ϕ galvanized u-bolt wire rope clips in 3/16" ϕ drilled holes. Install and torque to manufacturer's guidelines.
 - (C) 5/8" ϕ HS bolt, washer and nut, galvanized.
 - (D) L 3 1/2 x 3 1/2 x 3/8 x 0'-5 1/2" galvanized.
 - (E) PL 3/8 x 5 1/2 x 0'-7 1/2" galvanized.
 - (F) PL 3/8 x 5 1/2 x 0'-6" galvanized.

- NOTES:
- For "VIEW A-A", "VIEW B-B", "VIEW C-C" and "VIEW D-D", see "FALL ARREST SYSTEM DETAILS No. 3" sheet
 - For "VIEW E-E" and "VIEW F-F", see "FALL ARREST SYSTEM DETAILS No. 4" sheet
 - Existing surfaces in contact with new plates, angles and bolts shall be cleaned and painted prior to installation. For limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge), see "LIMITS OF CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" on "INDEX TO PLANS" sheet.



WIRE ROPE CABLE ATTACHMENT FOR LOWER CHORD POSTS BETWEEN VERTICALS

PLAN - CASE 1

WIRE ROPE CABLE ATTACHMENT FOR LOWER CHORD POSTS AT VERTICALS

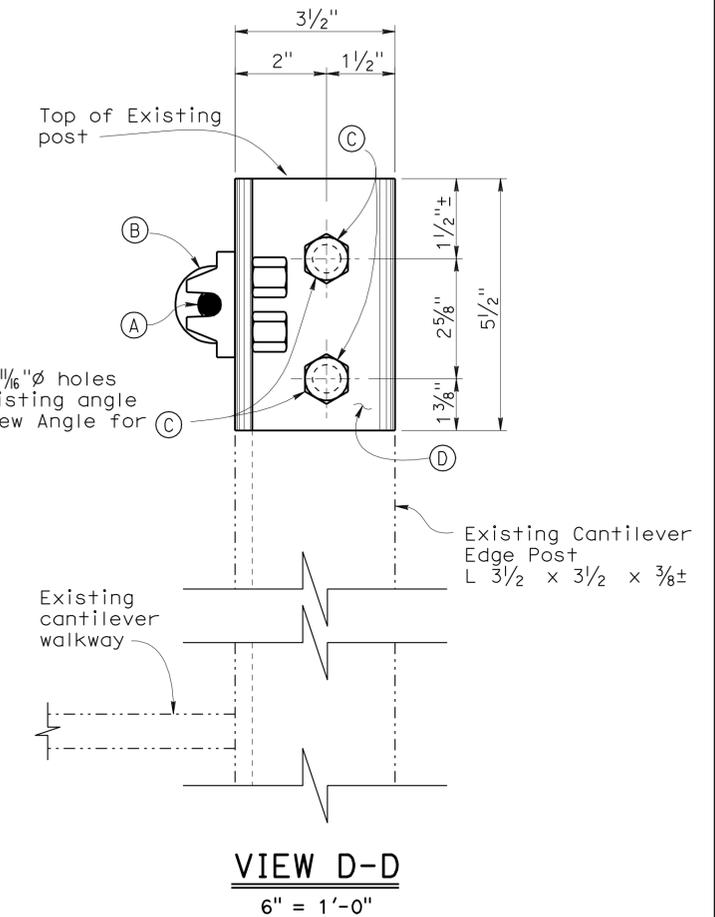
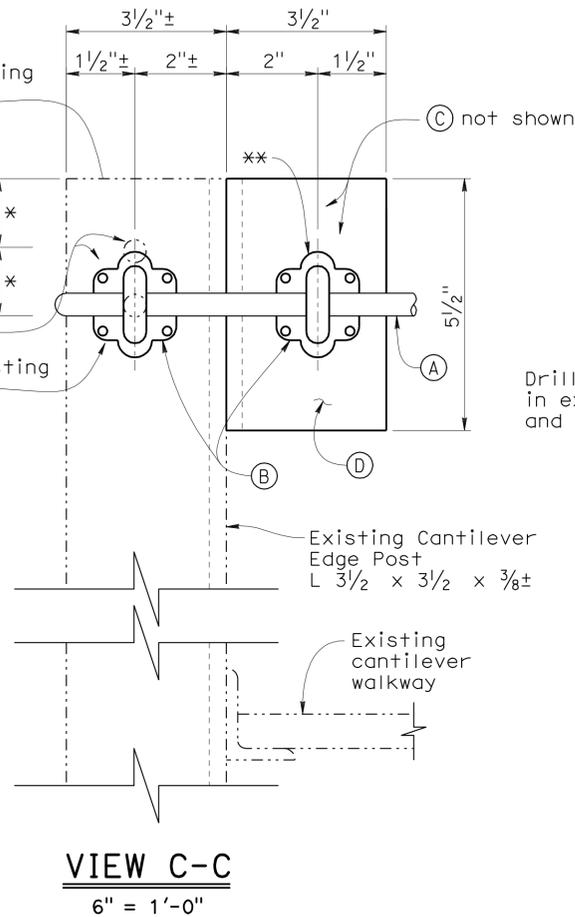
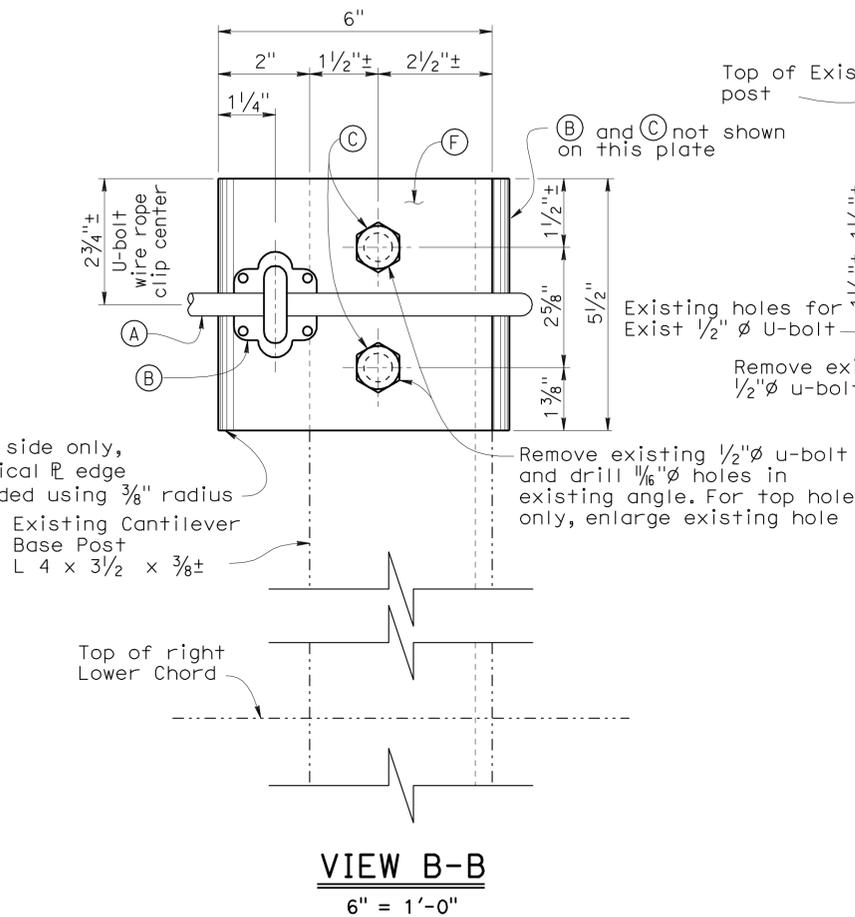
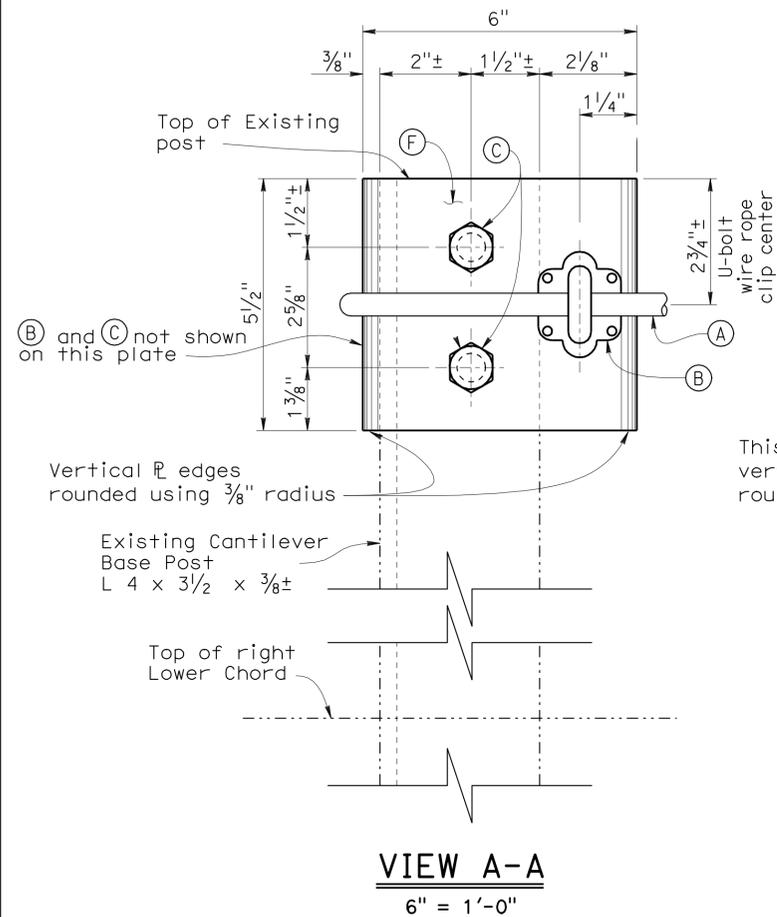
PLAN - CASE 2

- NOTES:
- Right side inboard post shown with new work items installed. outboard post and left side inboard and outboard posts similar.
 - Existing outboard post, wire rope and u-bolt are shown for clarity prior to installation of new plate, bolts, u-bolt wire rope clips and IPS-IWRC wire rope cable.

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

- NOTES:
- Other cantilever walkway members not shown.
 - Right lower chord shown. Left lower chord similar.
 - "VIEW A-A", "VIEW B-B", "VIEW C-C", "VIEW D-D", "VIEW E-E", and "VIEW F-F" are down-station side of cantilever walkway. Up-station side shown similar.
 - Orientation of existing cantilever edge posts may vary. Exact orientation to be field verified. Case 1 and Case 2 details are provided to accommodate either orientation.

DESIGN	BY Eduardo Ortega Jr.	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134	SEISMIC RETROFIT WEST BRANCH FEATHER RIVER BRIDGE TRUSS REHABILITATION FALL ARREST SYSTEM DETAILS No. 2
DETAILS	BY Gerald Dickerson	CHECKED Jun Ki Jung			POST MILE	28.2	
QUANTITIES	BY Eduardo Ortega Jr.	CHECKED Rakesh Deo					



- NOTES:
- "VIEW A-A", "VIEW B-B", "VIEW C-C" and "VIEW D-D" shown are for right lower chord, down-station side of cantilever walkway. Up-station side similar.
 - Right lower chord cantilever walkway shown, left lower chord cantilever walkway similar.
 - New compression struts not shown. See "FALL ARREST SYSTEM DETAILS No. 6" and "FALL ARREST SYSTEM DETAILS No. 7" sheets.

- LEGEND:
- Indicates existing
 - (A) 1/2"Ø 6 x 19 galvanized IPS-IWRC wire rope cable
 - (B) 1/2"Ø galvanized u-bolt wire rope clips in 3/16" Ø drilled holes. Install and torque to manufacturer's guidelines.
 - (C) 5/8" Ø HS bolt, washer and nut, galvanized.
 - (D) L 3 1/2 x 3 1/2 x 3/8 x 0'-5 1/2" galvanized.
 - (E) R 3/8 x 5/2 x 0'-6" galvanized.

- NOTES:
- * Indicates distances to center of holes for existing u-bolts. If needed, enlarge bottom hole (vertical slot) to accommodate new wire rope clips
 - ** Match vertical layout of (B) wire rope clip installed in existing angle

NOTE:
 For limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge), see "LIMITS OF CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" on "INDEX TO PLANS" sheet.

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

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS REHABILITATION
FALL ARREST SYSTEM DETAILS No. 3

DESIGN	By Eduardo Ortega Jr.	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	By Gerald Dickerson	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	By Eduardo Ortega Jr.	CHECKED Rakesh Deo				

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 03227 UNIT: 3592 EA 1E5101 PROJECT: 03 0000 0266	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 6-30-11 7-18-11 7-21-11 8-01-11 9-12-11 12-21-11	SHEET 36 OF 60
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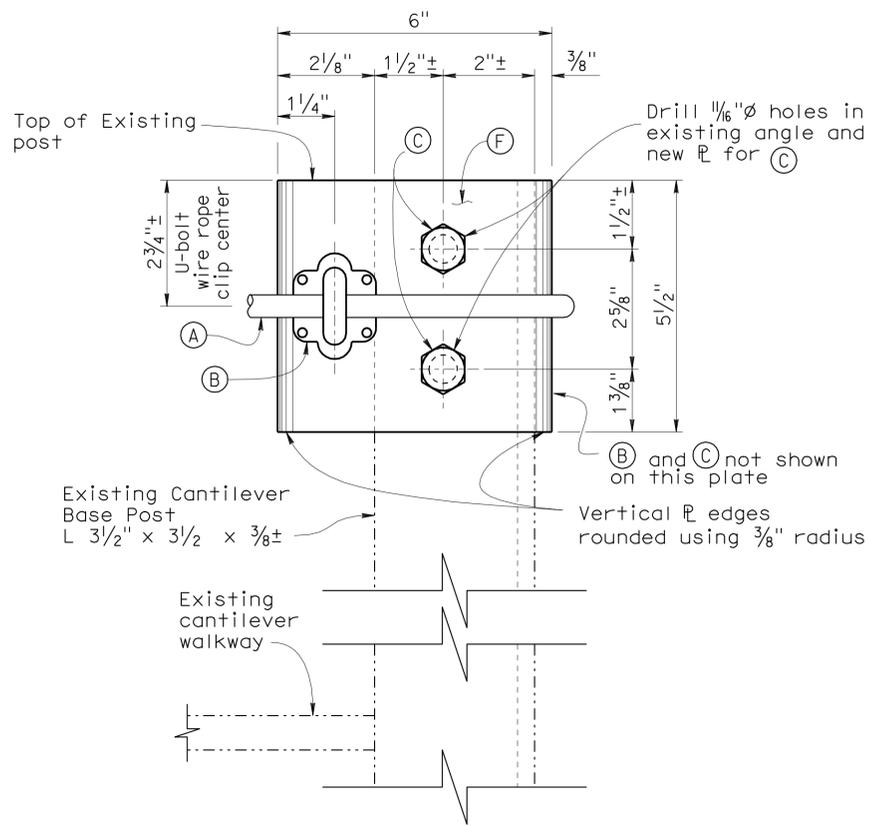
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	72	95

David Soon 1-6-12
REGISTERED CIVIL ENGINEER DATE

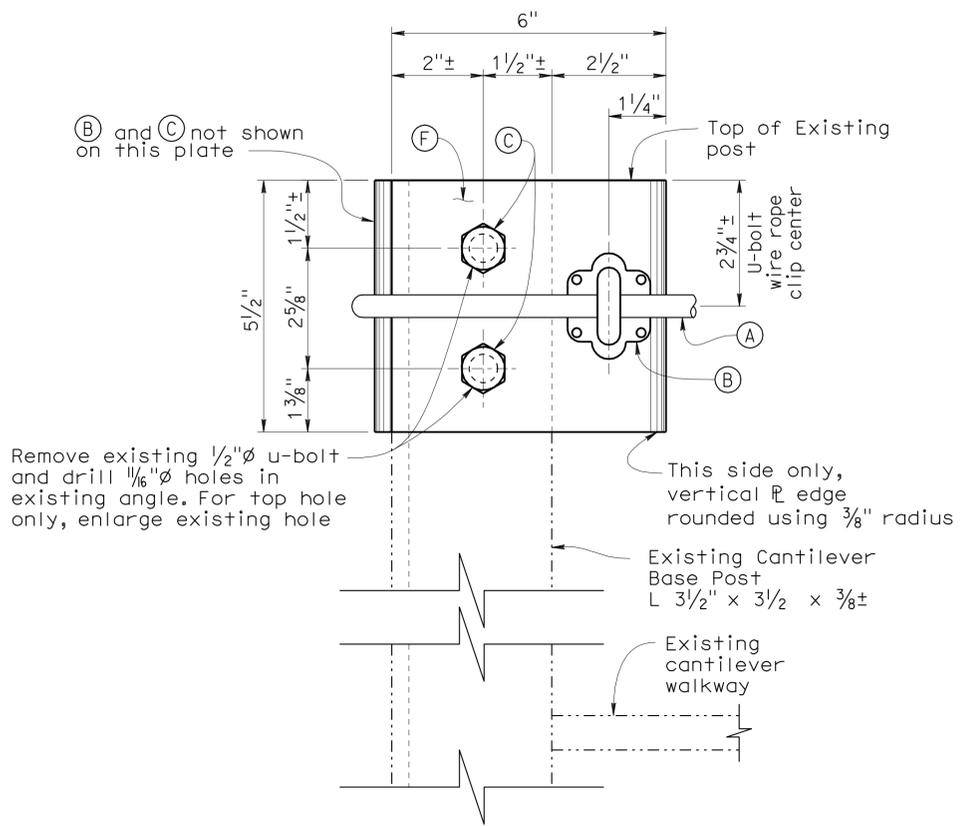
5-21-12
PLANS APPROVAL DATE

David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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

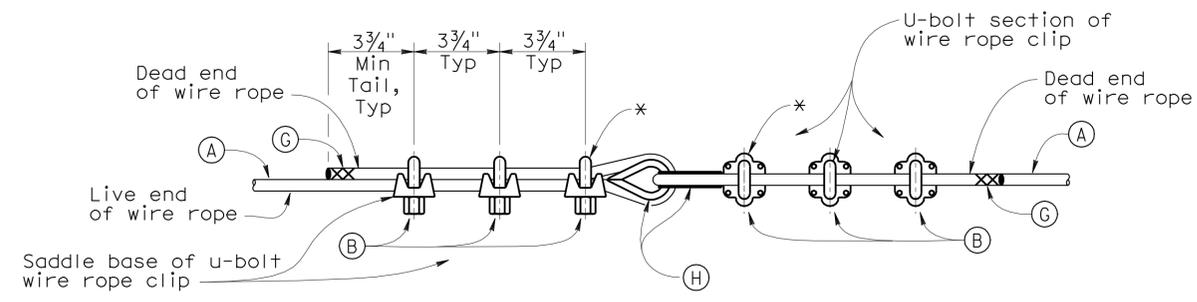


VIEW E-E
6" = 1'-0"



VIEW F-F
6" = 1'-0"

- NOTES:
- "VIEW E-E" and "VIEW F-F" shown are for right lower chord, down-station side of cantilever walkway. Up-station side similar.
 - Right lower chord cantilever walkway shown, left lower chord cantilever walkway similar.
 - New compression struts not shown. See "FALL ARREST SYSTEM DETAILS No. 6" and "FALL ARREST SYSTEM DETAILS No. 7" sheets.
 - For limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge), see "LIMITS OF CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" on "INDEX TO PLANS" sheet.



TYPICAL WIRE ROPE CABLE SPLICE DETAIL
3" = 1'-0"

- NOTES:
- * Install u-bolt wire rope clip as close to loop or thimble as possible.
- Saddle base of all u-bolt wire rope clips bears on the live end of wire rope.

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

- LEGEND:
- Indicates existing
 - (A) 1/2" ϕ 6 x 19 galvanized IPS-IWRC wire rope cable
 - (B) 1/2" ϕ galvanized u-bolt wire rope clips in 3/16" ϕ drilled holes. Install and torque to manufacturer's guidelines.
 - (C) 5/8" ϕ HS bolt, washer and nut, galvanized.
 - (F) \bar{L} 3/8 x 5/2 x 0'-6" galvanized.
 - (G) Wire rope seizing band.
 - (H) Cable thimbles for 1/2" ϕ wire rope galvanized.

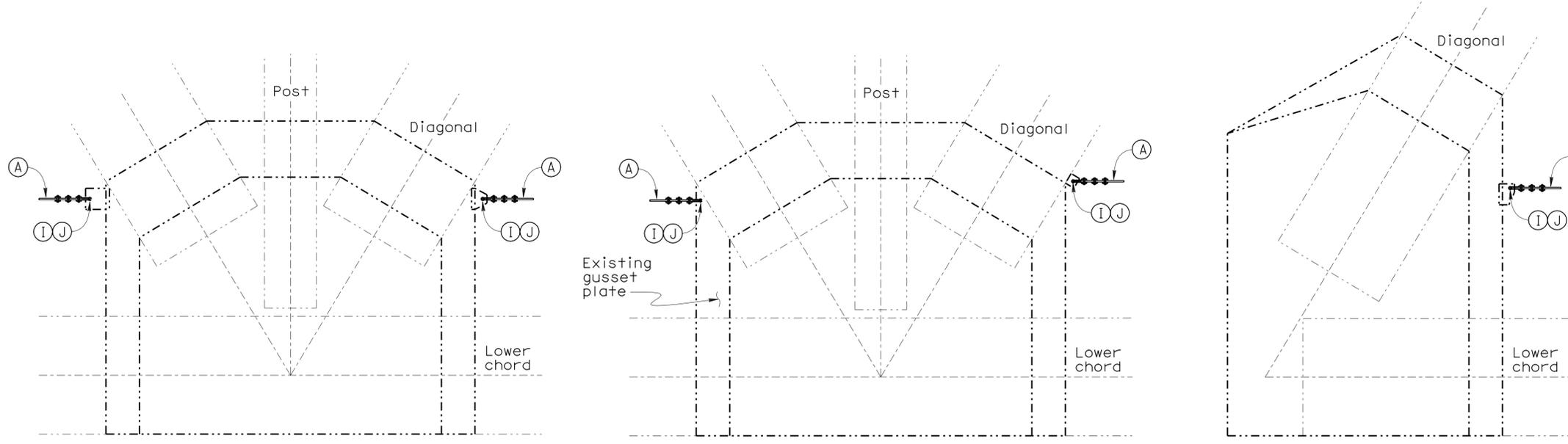
SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS REHABILITATION
FALL ARREST SYSTEM DETAILS No. 4

DESIGN	By Eduardo Ortega Jr.	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	By Gerald Dickerson	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	By Eduardo Ortega Jr.	CHECKED Rakesh Deo				

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 03227 EA 1E5101	UNIT: 3592 PROJECT: 03 0000 0266	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 37 OF 60
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USERNAME => s135318 DATE PLOTTED => 25-MAY-2012 TIME PLOTTED => 16:02

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Bu+	70	28.0/29.2	73	95
David Soon 1-6-12				REGISTERED CIVIL ENGINEER	DATE
5-21-12				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.					
					



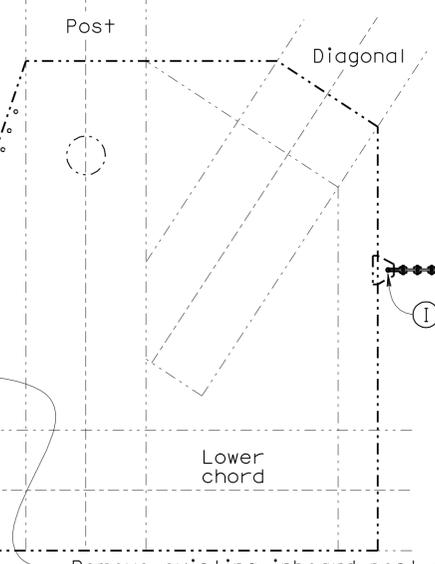
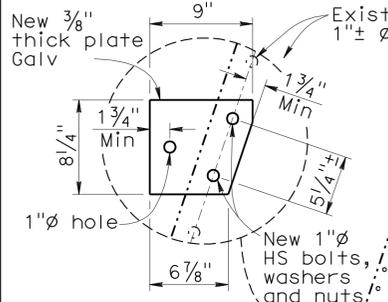
POST AND DIAGONAL USING ATTACHED PLATES

POST AND DIAGONAL USING HOLE IN GUSSET PLATE OR ATTACHED ANGLE

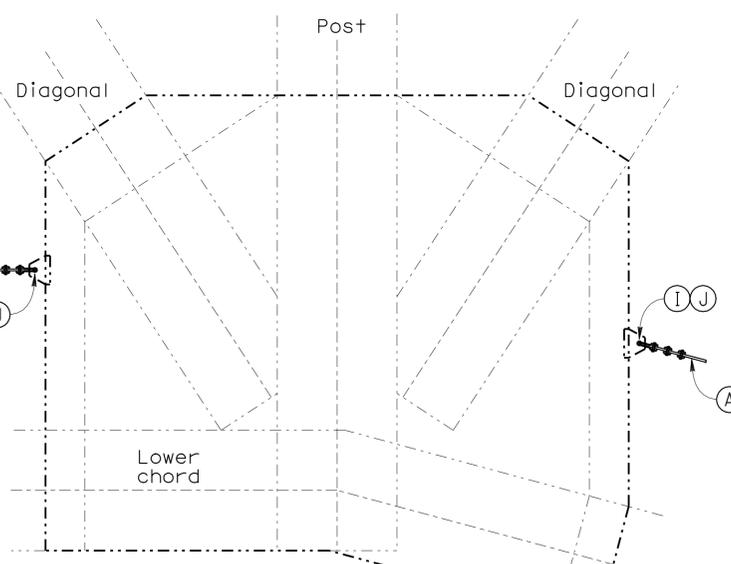
L0' / L15" USING ATTACHED PLATE

- LEGEND:
- Indicates existing
 - (A) 1/2"Ø 6 x 19 galvanized IPS-IWRC wire rope cable
 - (B) 1/2"Ø galvanized u-bolt wire rope clips in 3/16" Ø drilled holes. Install and torque to manufacturer's guidelines.
 - (C) Wire rope seizing band.
 - (H) Cable thimbles for 1/2"Ø wire rope galvanized.
 - (I) Remove existing 1/2"Ø u-bolt.
 - (J) Drill 1"Ø hole (torch cutting not allowed) with a minimum edge distance of 1 3/4" from center of hole. The Engineer to determine exact hole location. See "CABLE TERMINATION DETAIL".

NOTES:
 1. Existing connections not shown on this sheet are similar. Typically existing cable is connected to a small plate, angle or gusset plate itself.



L15 USING NEW PLATE AND ATTACHED PLATE



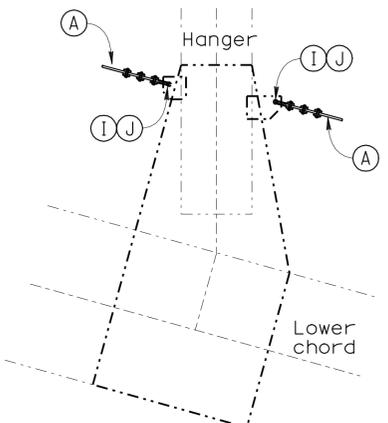
L10 / L14 USING ATTACHED PLATES

INBOARD CABLE TERMINATION CONNECTIONS TO VERTICAL TRUSS MEMBERS

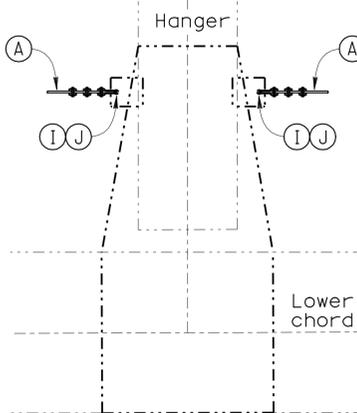
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTES:
 For limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge), see "LIMITS OF CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" on "INDEX TO PLANS" sheet.

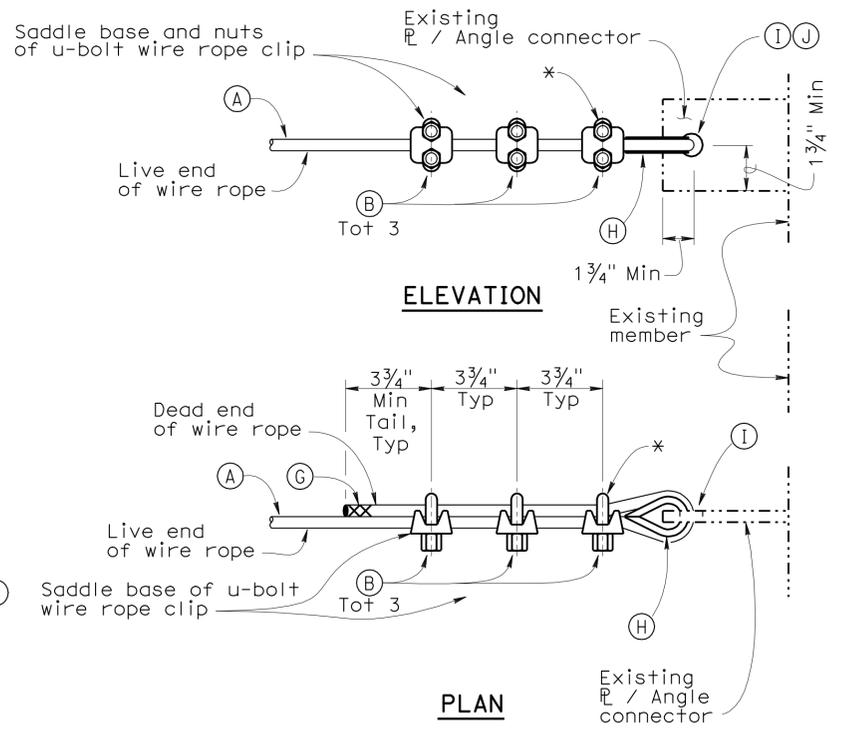
Right walkway shown, left similar.



SLOPED HANGER USING ATTACHED PLATES



HANGER USING ATTACHED PLATES



CABLE TERMINATION DETAIL

NOTES:
 * Install first u-bolt wire rope clip as close to loop or thimble as possible.
 1. Saddle base of all u-bolt wire rope clips bears on the live end of wire rope.

DESIGN	BY Eduardo Ortega Jr.	CHECKED Jun Ki Jung
DETAILS	BY Gerald Dickerson	CHECKED Jun Ki Jung
QUANTITIES	BY Eduardo Ortega Jr.	CHECKED Rakesh Deo

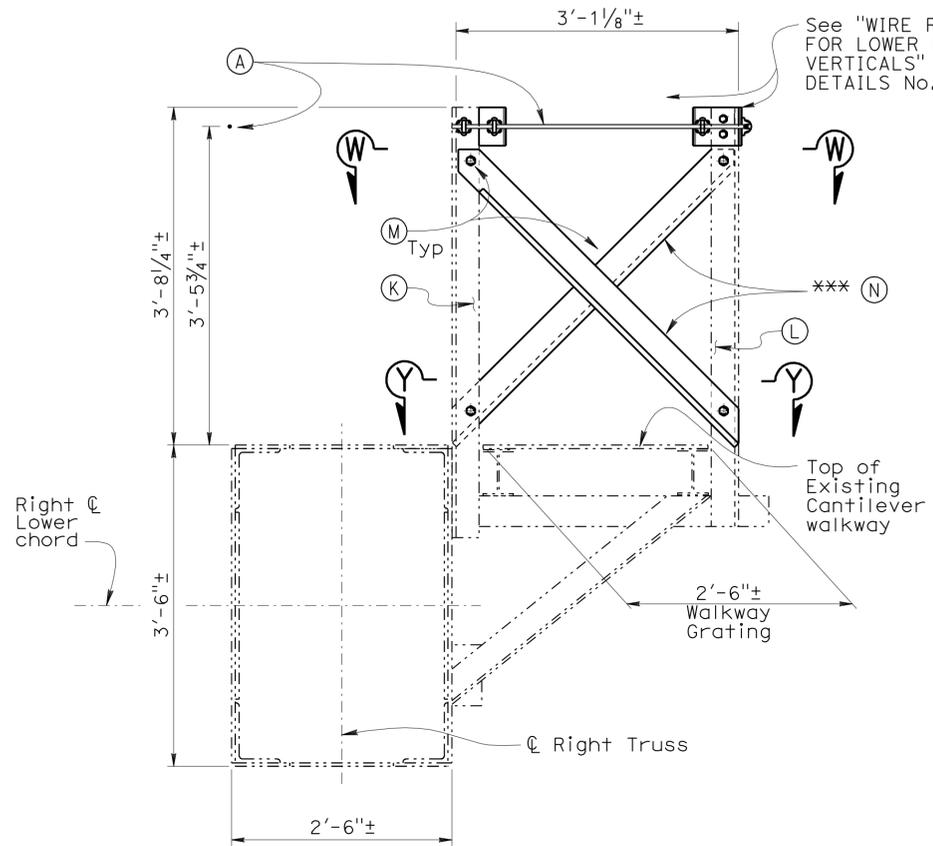
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS REHABILITATION
FALL ARREST SYSTEM DETAILS No. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	74	95
David Soon			1-6-12	REGISTERED CIVIL ENGINEER DATE	
5-21-12			PLANS APPROVAL DATE		
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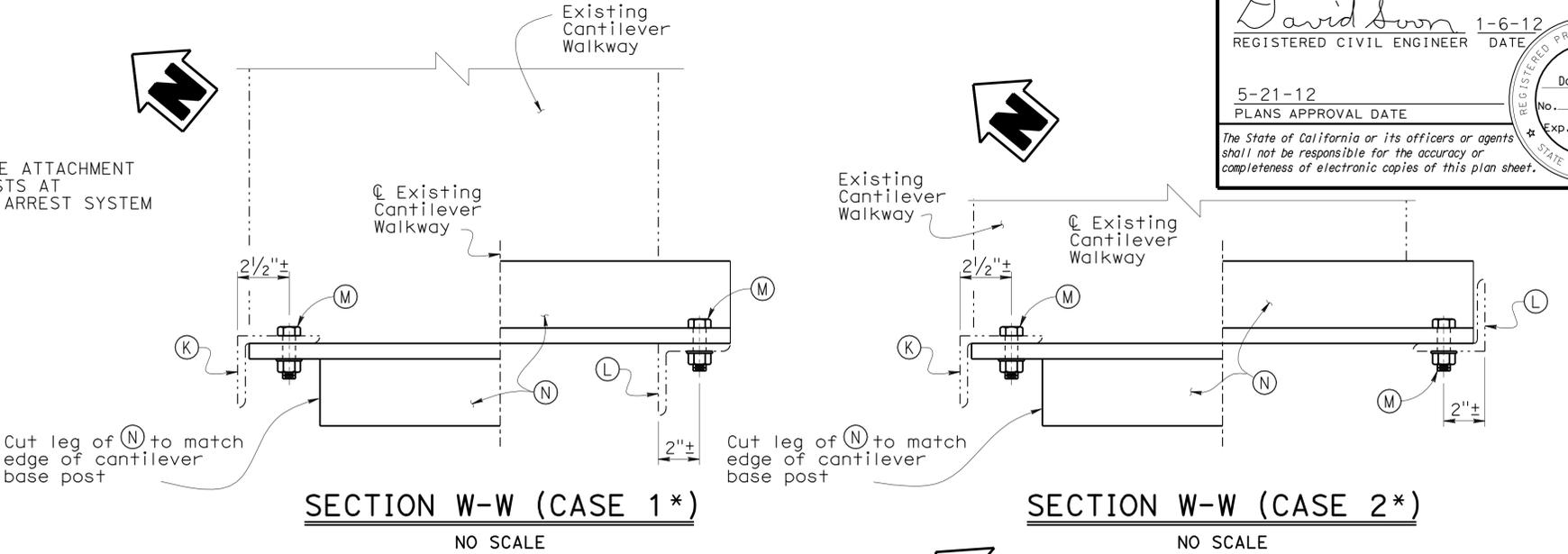
STRUTS AT CANTILEVER WALKWAY (DOWNSTATION)
1" = 1'-0"

NOTE:
*** Install in the down-station and up-station sides of all cantilever walkways.
Right lower chord shown, left lower chord similar.

- NOTES:
1. Downstation side of cantilever walkway shown. Upstation similar.
 2. Existing surfaces in contact with new angles and bolts shall be cleaned and painted before installation of struts. See "LIMITS OF SPOT BLAST CLEAN AND PAINT" on "INDEX TO PLANS" sheet.
 3. Orientation of existing cantilever edge posts may vary. Exact orientation to be field verified. Case 1 and Case 2 details are provided to accommodate either orientation.

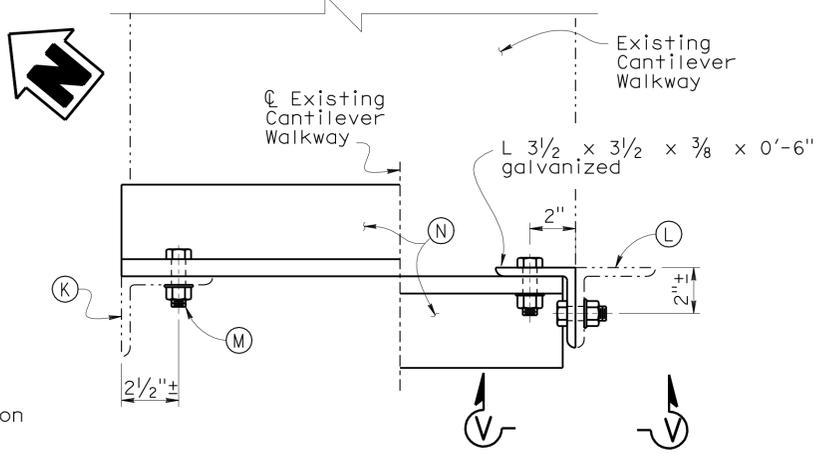
NOTE:
For limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge), see "LIMITS OF CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" on "INDEX TO PLANS" sheet.

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

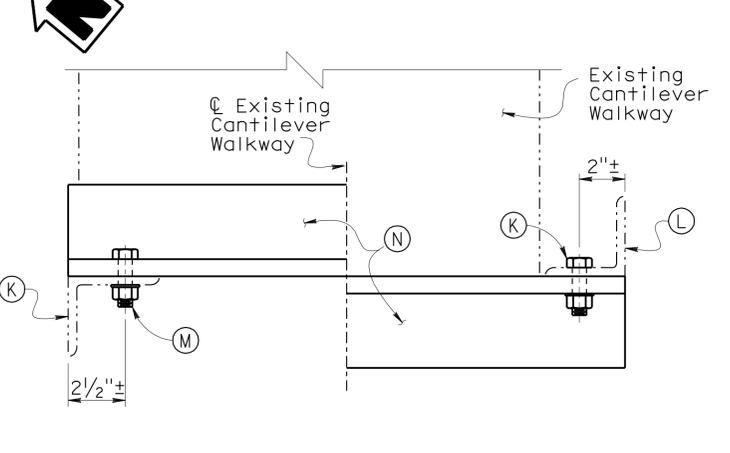


SECTION W-W (CASE 1*)
NO SCALE

SECTION W-W (CASE 2*)
NO SCALE

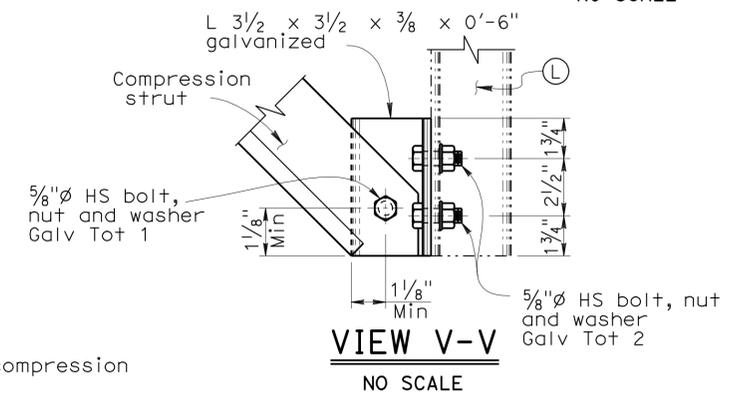


SECTION Y-Y (CASE 1*)
NO SCALE



SECTION Y-Y (CASE 2*)
NO SCALE

- LEGEND:
- Indicates existing
 - * Case 1 and Case 2 as shown in "WIRE ROPE CABLE ATTACHMENT FOR LOWER CHORD POSTS AT VERTICALS" in "FALL ARREST SYSTEM DETAILS No. 2" sheet
 - (A) 1/2"Ø 6 x 19 Galv IPS-IWRC wire rope cable.
 - (K) Existing L 4 x 3 1/2 x 3/8± cantilever base post.
 - (L) Existing L 3 1/2 x 3 1/2 x 3/8± cantilever edge post.
 - (M) Drill 1/16"Ø holes in existing angle and attach new compression strut with a single 5/8"Ø HS bolt, washer and nut.
 - (N) L 4 x 4 x 3/8 x 4'-6 1/4"± galvanized compression struts on cantilever walkway.



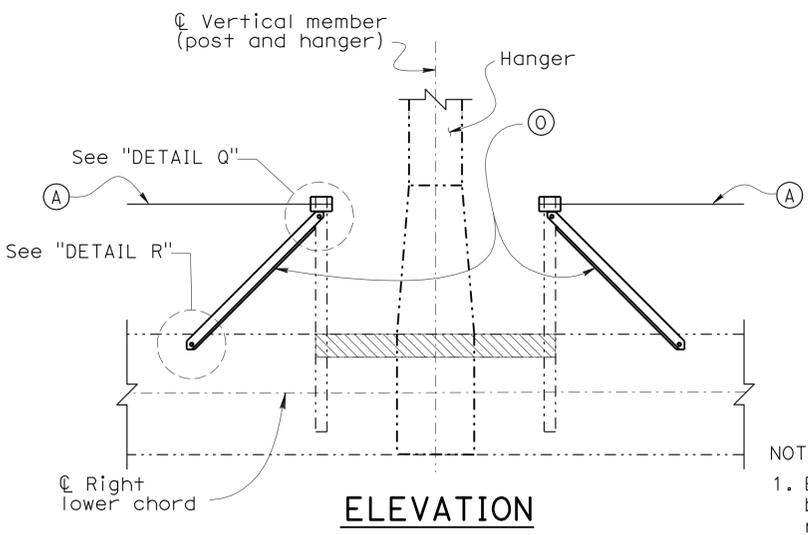
VIEW V-V
NO SCALE

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
TRUSS REHABILITATION	
FALL ARREST SYSTEM DETAILS No. 6	

DESIGN	By Eduardo Ortega Jr.	CHECKED	Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	By Gerald Dickerson	CHECKED	Jun Ki Jung			POST MILE	28.2
QUANTITIES	By Eduardo Ortega Jr.	CHECKED	Rakesh Deo			PROJECT: 03 0000 0266	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 03227 UNIT: 3592 EA 1E5101 PROJECT: 03 0000 0266	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 39 OF 60
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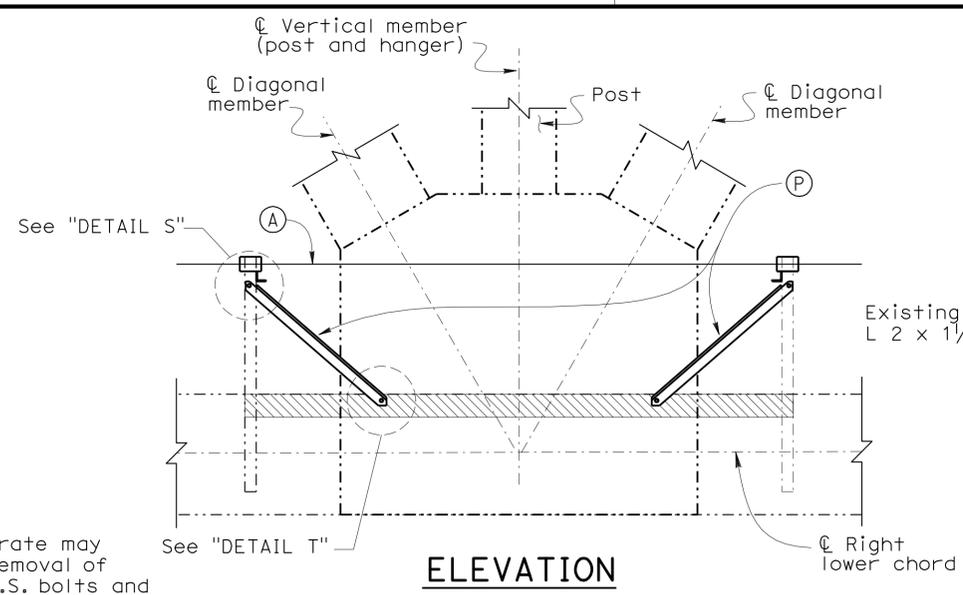
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	BuT	70	28.0/29.2	75	95
David Soon			1-6-12	REGISTERED CIVIL ENGINEER DATE	
5-21-12			PLANS APPROVAL DATE		
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ELEVATION
TYPICAL CANTILEVER BASE POST COMPRESSION STRUTS
NO SCALE

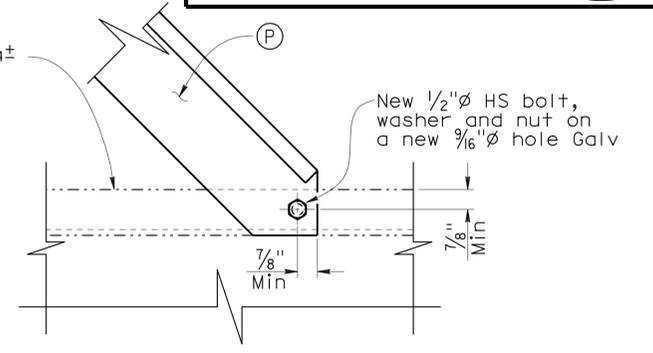
Note:
Cantilever walkway at hanger show,
Cantilever walkway at Post and
diagonal similar.

- NOTES:
- Existing bottom chord walkway grate may be temporarily removed during removal of rivets and the installation of H.S. bolts and struts. The walkway must be reinstalled, undamaged, at the removal location.
 - Orientation of existing cantilever edge posts may vary. Exact orientation to be field verified. Case 1 and Case 2 details are provided to accommodate either orientation.

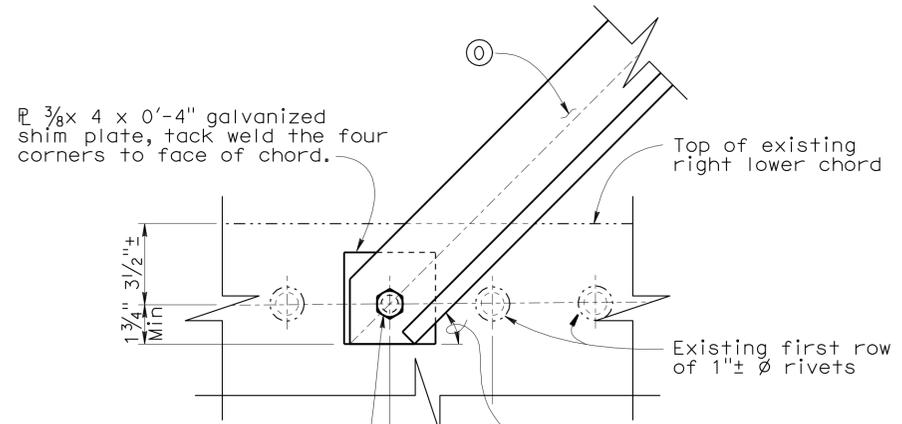


ELEVATION
TYPICAL CANTILEVER EDGE POST COMPRESSION STRUTS (CASE 1* AND CASE 2*)
NO SCALE

Note:
Cantilever walkway at Post and diagonal
shown, Cantilever walkway at hanger
similar.



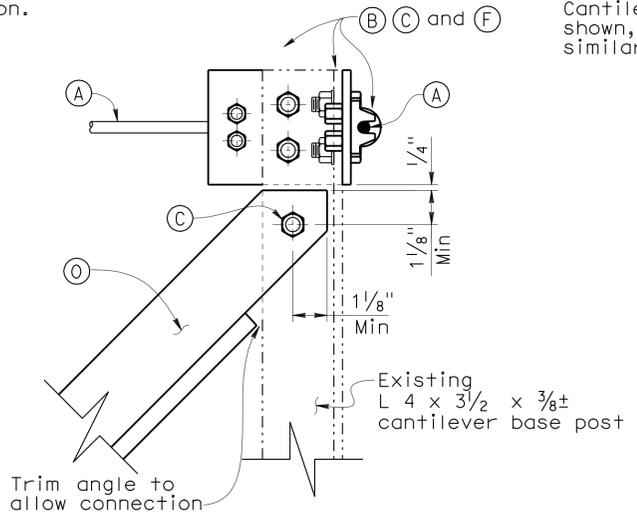
DETAIL T
(CASE 1* AND CASE 2*)
NO SCALE



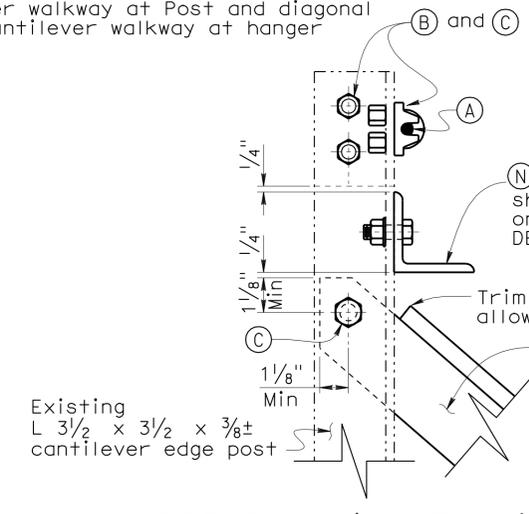
DETAIL R
NO SCALE

Remove existing 1"± Ø rivet,
concentrically enlarge hole
to 1 1/16" and install a new
1"Ø HS bolt, washer and nut,
Tot 1

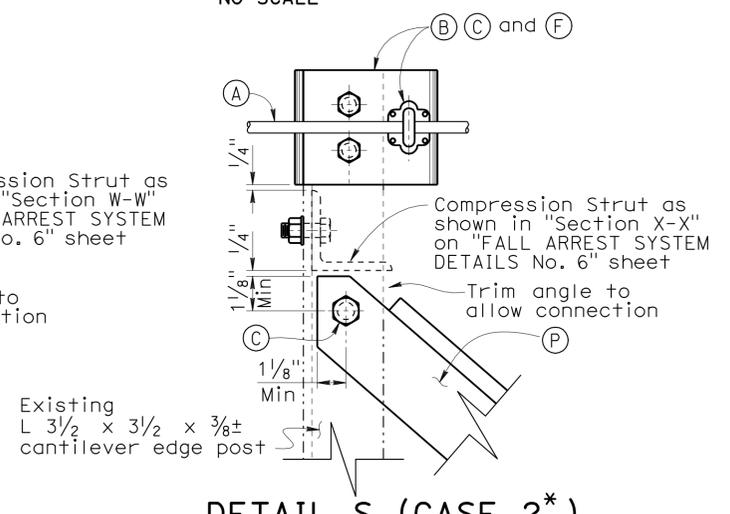
Adjust angle to
avoid conflict with
adjacent rivet heads
when needed



DETAIL Q
NO SCALE



DETAIL S (CASE 1*)
NO SCALE



DETAIL S (CASE 2*)
NO SCALE

- LEGEND:
- Indicates existing
 -  Indicates existing cantilever walkway
 - (A) 1/2"Ø 6 x 19 Galvanized IPS-IWRC wire rope cable
 - * (B) & (F) See "WIRE ROPE CABLE ATTACHMENT FOR LOWER CHORD POSTS AT VERTICALS" and 'Case 1' and 'Case 2' plan views see "FALL ARREST SYSTEM DETAILS No. 2" sheet
 - (C) New 5/8"Ø HS bolt, washer and nut, Total 1, on new 1/16"Ø hole galvanized
 - (O) L 4 x 4 x 3/8 x 6'-0"± galvanized compression struts on base post
 - (P) L 4 x 4 x 3/8 x 5'-6"± galvanized compression struts on edge post

NOTE:
The Engineer must approve any
modification to cantilever walkway
grating to avoid conflict with HS bolt

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

- NOTES:
- Compression struts as shown in this sheet must be installed on the cantilever base posts and cantilever edge posts of all cantilever walkways on the bridge.
 - Downstation attachment details shown, upstation similar.
 - Additional compression struts required at the existing angle framed pier access ladders details similar to provided details:
Pier 7 - (2) additional struts, Piers 8 through 10 - (4) additional struts each pier, and Pier 11 - (2) additional struts.
 - Existing surfaces in contact with new angles and bolts shall be cleaned and painted before installation of struts. For limits of Clean Structural Steel (Existing Bridge) and Paint Structural Steel (Existing Bridge), see "LIMITS OF CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" on "INDEX TO PLANS" sheet.

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS REHABILITATION
FALL ARREST SYSTEM DETAILS No. 7

DESIGN	BY Eduardo Ortega Jr.	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Gerald Dickerson	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	BY Eduardo Ortega Jr.	CHECKED Rakesh Deo				

USERNAME => s135318 DATE PLOTTED => 25-MAY-2012 TIME PLOTTED => 16:02

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	77	95

David Soon 1-6-12
REGISTERED CIVIL ENGINEER DATE

5-21-12
PLANS APPROVAL DATE

David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

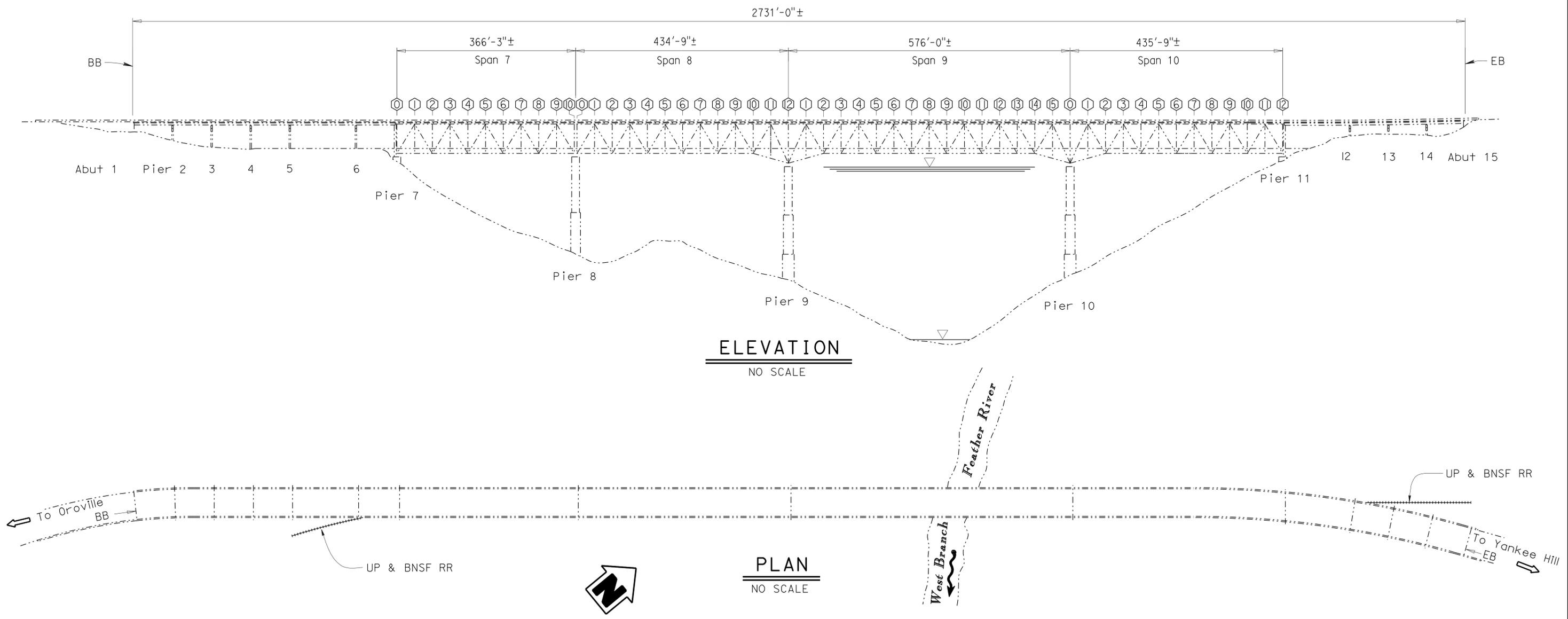
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LEGEND:

- Indicates existing.
- ⊙ Indicates panel point (⊙ panel point = ⊙ floor beam).
- Limits of work are from Span 7 ⊙ to Span 10 ⊙.

NOTE:

Panel point designations shown on this sheet applicable to "SPOT BLAST CLEAN & PAINT DETAILS" sheets only.



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

DESIGN	BY David Soon/Justin Wood	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY David Soon	CHECKED Dhvani Desai

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS REHABILITATION
SPOT BLAST CLEAN AND PAINT LAYOUT

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-24-11	42	60

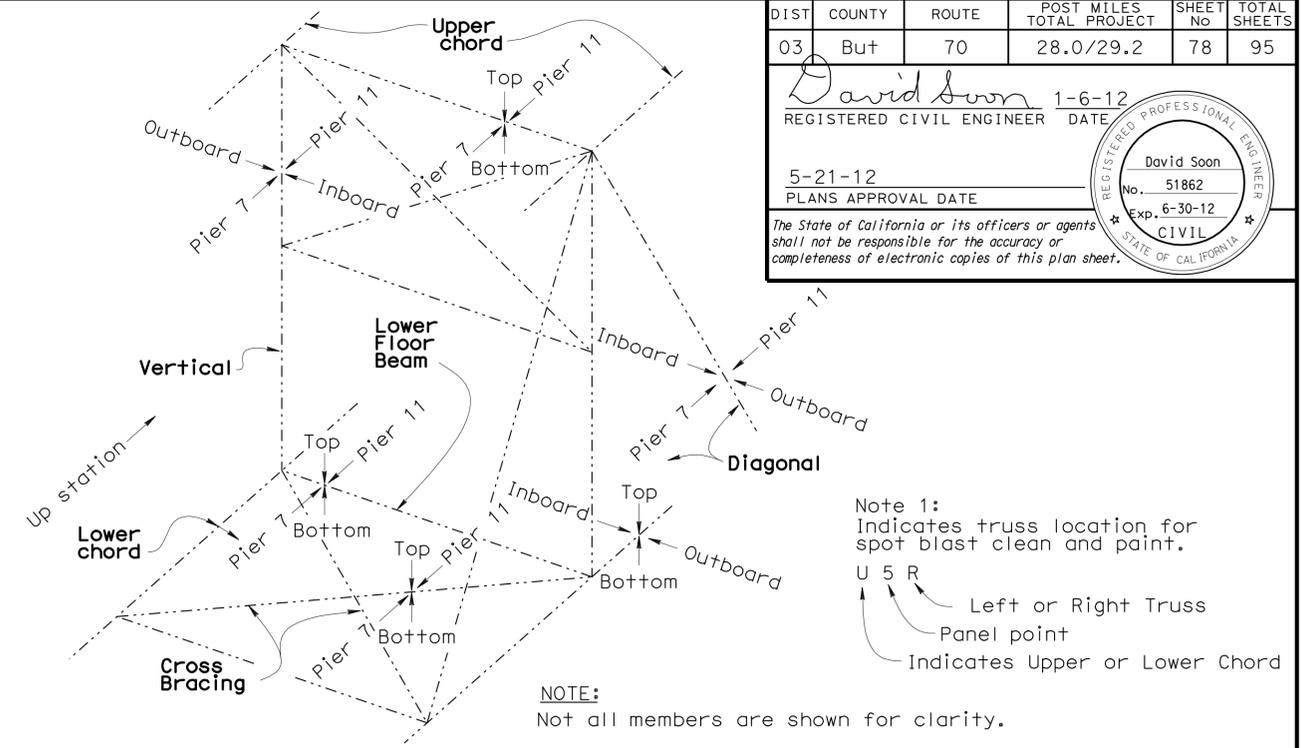
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SPAN 7

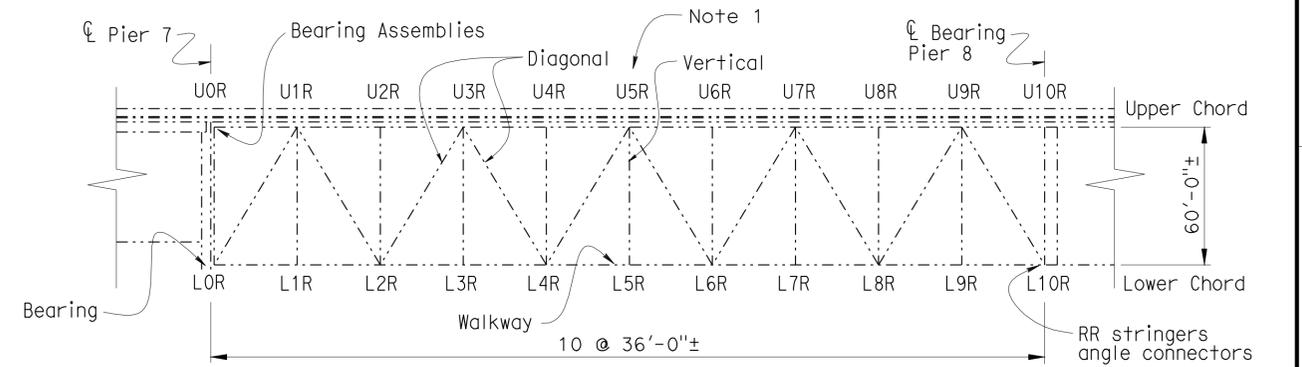
* Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge)

Side	Location	Member Type	Detail number	Surface to paint	* Qty (sf)	Remarks
L & R	U0L-U0R	bearing assemblies	R	all X 10	50	area includes all 10 bearing assemblies at this location
L & R	L10L-L10R	connection angles & plates	0	all	12	5 Tot. angle plates connecting railroad stringers to floor beam
right	L0R-U1R	diagonal	C	pier 7	25	
right	L0R-U1R	diagonal	C	outboard	55	
right	L3R-U3R	vertical	D	outboard	20	
right	L4R-U3R	diagonal	E	outboard	30	
right	L6R-U7R	diagonal	E	outboard	5	
right	L9R-U9R	vertical	D	pier 7	2	
right	L10R-U9R	diagonal	C	outboard	100	
right	L10R-U10R	vertical	I	outboard	35	
right	L10R-U10R	vertical	I	pier 7	15	
right	L10R-U10R	vertical	I	pier 11	25	
right	L10R	bearing	Q	all	150	
left	L1L-U1L	vertical	D	outboard	77	
left	L2L-U2L	vertical	I	outboard	103	
left	L3L-U3L	vertical	D	outboard	77	
left	L4L-U3L	diagonal	E	inboard	15	
left	L4L-U4L	vertical	I	outboard	103	
left	L5L-U5L	vertical	D	outboard	77	
left	L6L-U5L	diagonal	F	inboard	15	
left	L7L-U7L	vertical	D	outboard	77	
left	L8L-U8L	vertical	I	outboard	103	
left	L9L-U9L	vertical	D	outboard	77	
left	L10L-U10L	vertical	I	inboard	10	
left	L10L-U10L	vertical	I	pier 7	10	
left	L10L-U10L	vertical	I	outboard	14	
left	L10L	bearing	Q	all	150	
right	L0R	walkway	N	various	8	
right	L1R	walkway	N	various	11	
right	L2R	walkway	N	various	15	
right	L4R	walkway	N	various	12	
right	L5R	walkway	N	various	10	
right	L6R	walkway	N	various	20	
right	L6R-L7R	walkway	N	various	1	
right	L7R	walkway	N	various	9	
right	L7R-L8R	walkway	N	various	2	
right	L8R	walkway	N	various	9	
left	L1L	walkway	N	various	7	
left	L3L	walkway	N	various	4	
left	L9L	walkway	N	various	10	
Total					1,550	

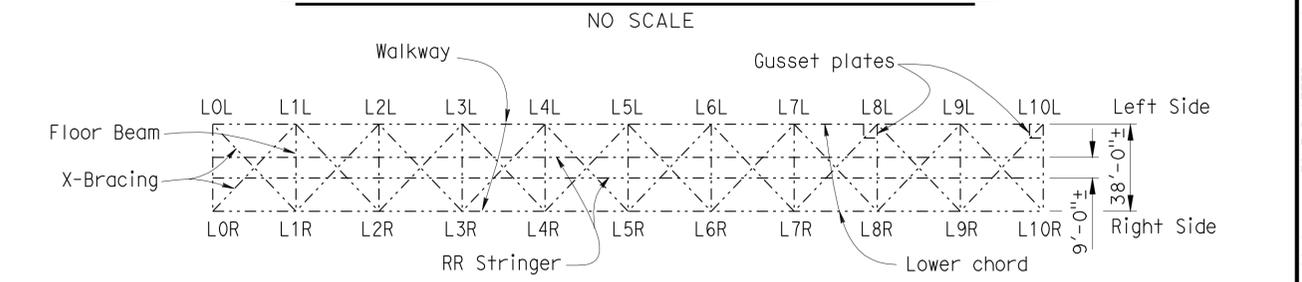
NOTE: For Details (A) to (R), see "SPOT BLAST CLEAN AND PAINT DETAILS NO. 5" to "SPOT BLAST CLEAN AND PAINT DETAILS NO. 15" sheets.



TYPICAL NAMING CONVENTION FOR SURFACE TO PAINT



SPAN 7 RIGHT TRUSS ELEVATION



SPAN 7 LOWER FRAMING PLAN

LEGEND: - - - - - Indicates existing

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

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS REHABILITATION
SPOT BLAST CLEAN AND PAINT DETAILS No. 1

DESIGN	By David Soon/Justin Wood	CHECKED	Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	By Bruno Jenko	CHECKED	Jun Ki Jung			POST MILE	28.2
QUANTITIES	By David Soon	CHECKED	Dhvani Desai				

SPAN 8

* Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	79	95

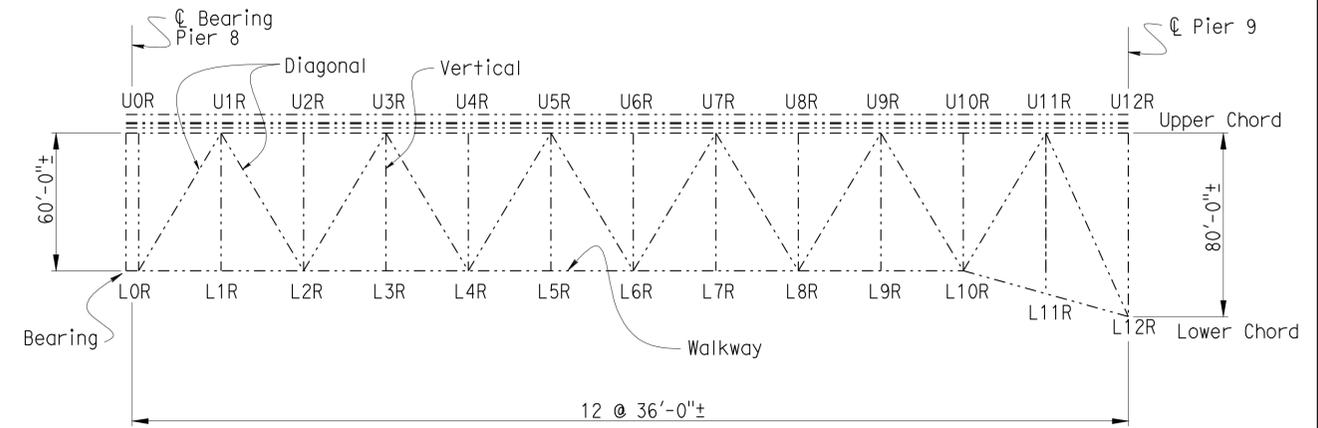
David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE

5-21-12
 PLANS APPROVAL DATE

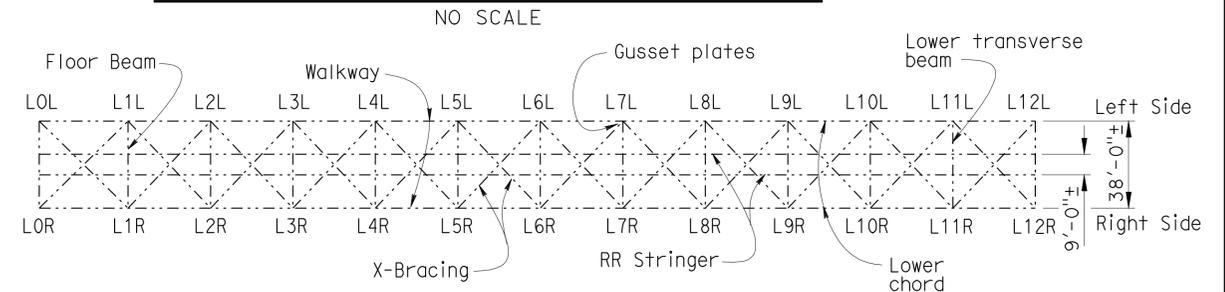
David Soon
 No. 51862
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

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

Side	Location	Member Type	Detail number	Surface to paint	* Qty (sf)	Remarks
L & R	L12R-L11L	x-bracing	A	pier 7	36	
L & R	L11L-L11R	lower transverse beam	H	pier 7	25	
L & R	L11L-L11R	lower transverse beam	H	top	10	
right	L1R-L2R	lower chord	G	top	19	
right	L3R-L4R	lower chord	G	top	35	
right	L4R-U3R	diagonal	E	outboard	25	
right	L4R-U4R	vertical	I	outboard	10	
right	L6R-U7R	diagonal	C	pier 7	69	
right	L6R-U6R	vertical	I	outboard	76	
right	L6R-U7R	diagonal	C	outboard	105	
right	L6R-L7R	lower chord	G	top	37	
right	L7R	gusset	M	outboard	8	
right	L8R-U9R	diagonal	C	pier 7	12	
right	L8R-U8R	vertical	I	outboard	5	
right	L8R-U9R	diagonal	C	outboard	10	
right	L11R-U11R	vertical	D	outboard	77	
right	L0R	bearing	Q	all	150	
left	L1L-U1L	vertical	D	outboard	77	
left	L6L-U6L	vertical	I	outboard	10	
left	L6L-U7L	diagonal	C	pier 7	10	
left	L6L-U7L	diagonal	C	outboard	5	
left	L7L-U7L	vertical	D	outboard	77	
left	L0L	bearing	Q	all	150	
right	L0R	walkway	N	various	45	ladder support members
right	L0R	walkway	N	various	4	
right	L0R-L1R	walkway	N	various	4	
right	L1R	walkway	N	various	22	
right	L1R-L2R	walkway	N	various	4	
right	L2R	walkway	N	various	12	
right	L3R	walkway	N	various	5	
right	L4R	walkway	N	various	15	
right	L7R	walkway	N	various	8	
right	L7R-L8R	walkway	N	various	3	
right	L8R	walkway	N	various	4	
right	L10R	walkway	N	various	9	
right	L10R-L11R	walkway	N	various	3	
right	L10R-L11R	walkway	N	various	5	
left	L0L	walkway	N	various	20	
left	L1L	walkway	N	various	3	
left	L2L	walkway	N	various	4	
left	L9L	walkway	N	various	4	
left	L10L	walkway	N	various	4	
Total					1,216	



SPAN 8 RIGHT TRUSS ELEVATION



SPAN 8 LOWER FRAMING PLAN

LEGEND:

----- Indicates existing

NOTE: For Details (A) to (R), see "SPOT BLAST CLEAN AND PAINT DETAILS No. 5" to "SPOT BLAST CLEAN AND PAINT DETAILS No. 15" sheets.

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

SEISMIC RETROFIT
 WEST BRANCH FEATHER RIVER BRIDGE
 TRUSS REHABILITATION
 SPOT BLAST CLEAN AND PAINT DETAILS No. 2

DESIGN	By David Soon/Justin Wood	CHECKED	Jun Ki Jung
DETAILS	By Bruno Jenko	CHECKED	Jun Ki Jung
QUANTITIES	By David Soon	CHECKED	Dhvani Desai

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

CU 03227 UNIT: 3592
 EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 44 OF 60
	3-24-11 4-27-11 5-11-11 12-27-11	

SPAN 10

* Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	81	95

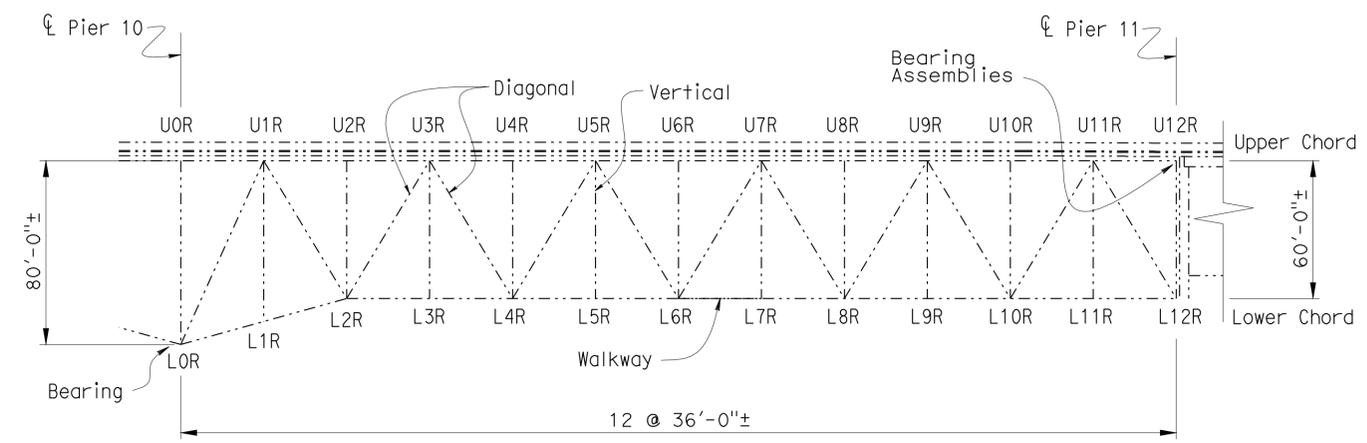
David Soon 1-6-12
REGISTERED CIVIL ENGINEER DATE

5-21-12
PLANS APPROVAL DATE

David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

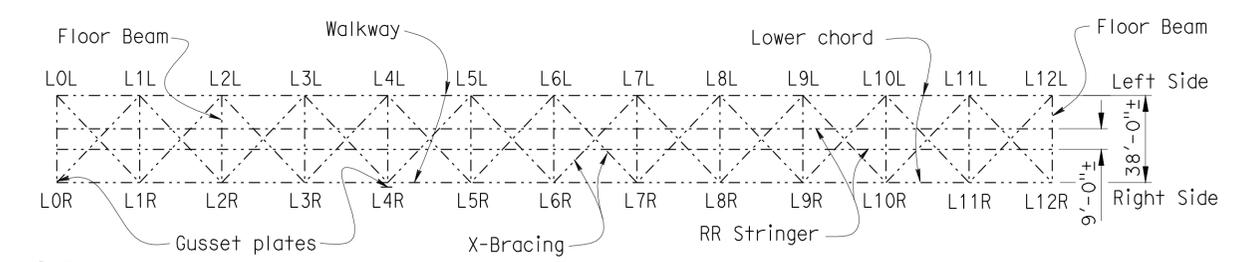
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Side	Location	Member Type	Detail number	Surface to paint	* Qty (sf)	Remarks
L & R	U12R-U12L	bearing assemblies	R	all x 10	50	area includes all 10 bearing assemblies at this location
right	L0R	bearing	P	all	15	
right	L0R	gusset	L	outboard	72	
right	L0R-U1R	diagonal	C	pier 7	20	
right	L0R-U1R	diagonal	C	outboard	35	
right	L0R-L1R	lower chord	G	outboard	56	
right	L0R-L1R	lower chord	G	top	68	
right	L1R-L2R	lower chord	G	outboard	70	
right	L2R-U1R	diagonal	C	outboard	35	
right	L2R-U2R	vertical	I	outboard	25	
right	L2R-U3R	diagonal	C	outboard	57	
right	L2R-L3R	lower chord	G	top	66	
right	L3R-U3R	vertical	D	outboard	45	
right	L4R	gusset	L	outboard	4	
right	L4R-U4R	vertical	I	outboard	55	
right	L4R-L5R	lower chord	G	top	50	
right	L6R-L7R	lower chord	G	top	35	
right	L7R-U7R	vertical	D	pier 7	8	
right	L7R-U7R	vertical	D	outboard	77	
right	L7R-U7R	vertical	D	pier 11	20	
right	L8R-U7R	diagonal	F	pier 7	15	
right	L8R-U8R	vertical	I	outboard	69	
right	L8R-U9R	diagonal	E	pier 7	15	
right	L8R-U9R	diagonal	E	outboard	10	
right	L9R-L10R	lower chord	G	top	66	
right	L10R-U9R	diagonal	E	outboard	20	
right	L10R-U9R	diagonal	E	pier 11	15	
right	L10R-U10R	vertical	I	pier 7	10	
right	L10R-U10R	vertical	I	outboard	32	
right	L10R-U10R	vertical	I	pier 11	20	
right	L11R-U11R	vertical	D	outboard	25	
right	L11R-U11R	vertical	D	pier 11	36	
right	L12R-L12L	floor beam	B	pier 11	34	floor beam web on right side of bridge
left	L1L-U1L	vertical	D	outboard	93	
left	L11L-U11L	vertical	D	inboard	20	
right	L0R	walkway	N	various	12	
right	L1R	walkway	N	various	11	
right	L10R	walkway	N	various	10	
right	L12R	walkway	N	various	6	
Total					1,382	



SPAN 10 RIGHT TRUSS ELEVATION

NO SCALE



SPAN 10 LOWER FRAMING PLAN

NO SCALE

LEGEND:
----- Indicates existing

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

NOTE: For Details (A) to (R), see "SPOT BLAST CLEAN AND PAINT DETAILS No. 5" to "SPOT BLAST CLEAN AND PAINT DETAILS No. 15" sheets.

DESIGN	By David Soon/Justin Wood	CHECKED Jun Ki Jung
DETAILS	By Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	By David Soon	CHECKED Dhvani Desai

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

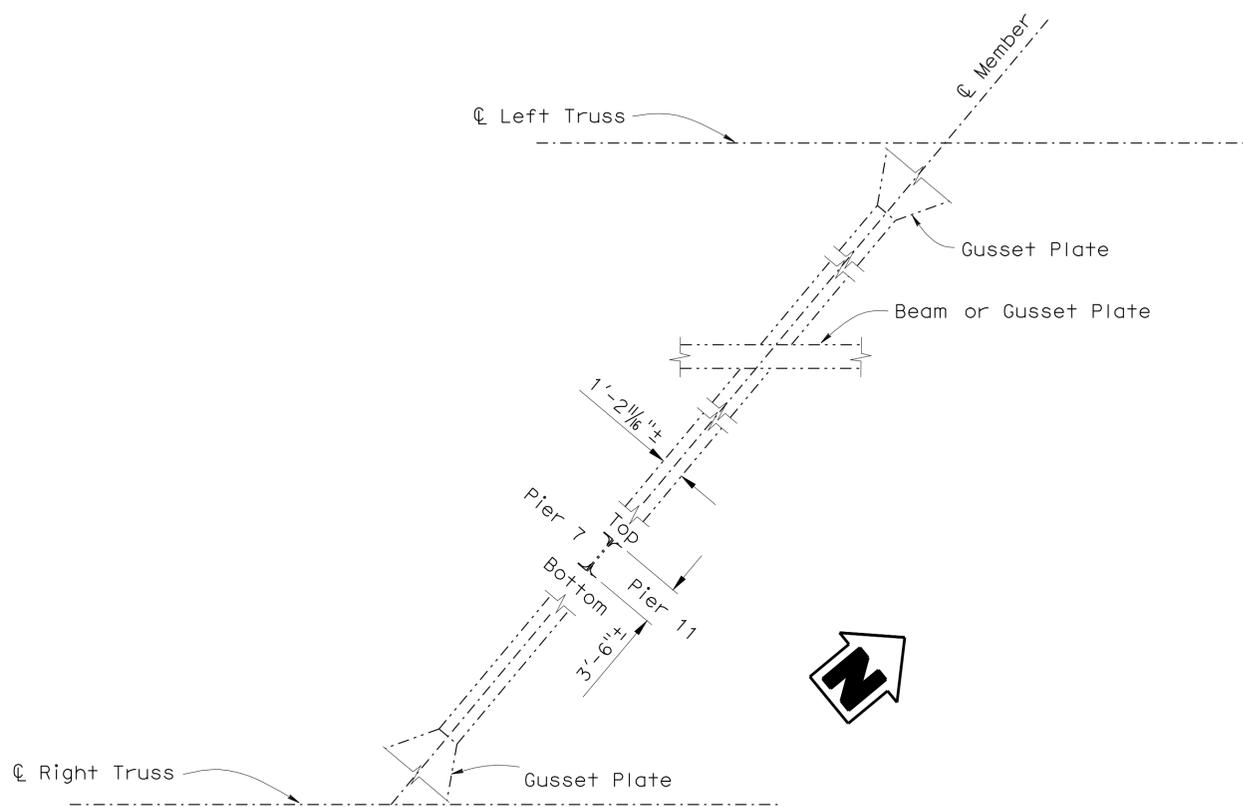
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS REHABILITATION
SPOT BLAST CLEAN AND PAINT DETAILS No. 4

USERNAME => s123631 DATE PLOTTED => 25-MAY-2012 TIME PLOTTED => 16:07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	82	95
David Soon 1-6-12 REGISTERED CIVIL ENGINEER DATE					
5-21-12 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.					



(A) CROSS BRACING, LOWER FRAMING PLAN VIEW

NO SCALE

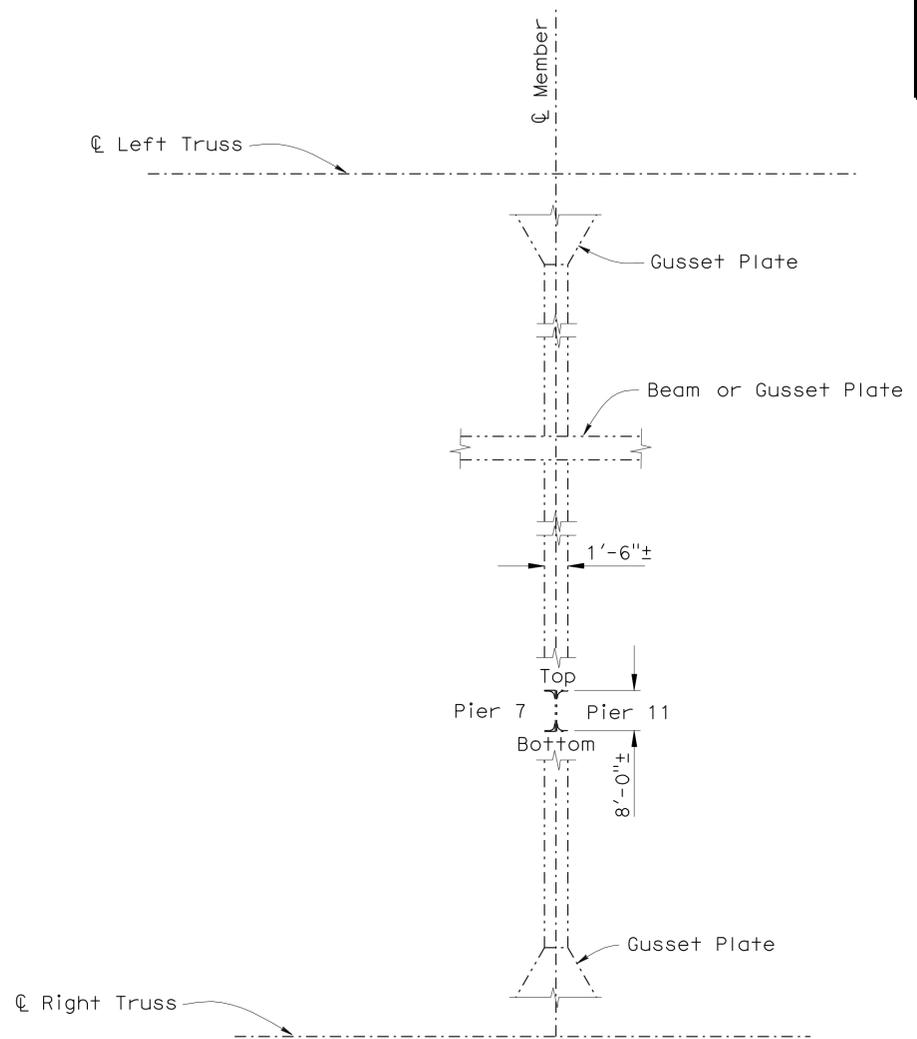
NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.
- ③ Members may angle left or right

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

LEGEND:

----- Indicates existing



(B) FLOOR BEAM, LOWER FRAMING PLAN VIEW

NO SCALE

NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
TRUSS REHABILITATION	
SPOT BLAST CLEAN AND PAINT DETAILS No. 5	

DESIGN	BY David Soon/Justin Wood	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY David Soon	CHECKED Dhvani Desai

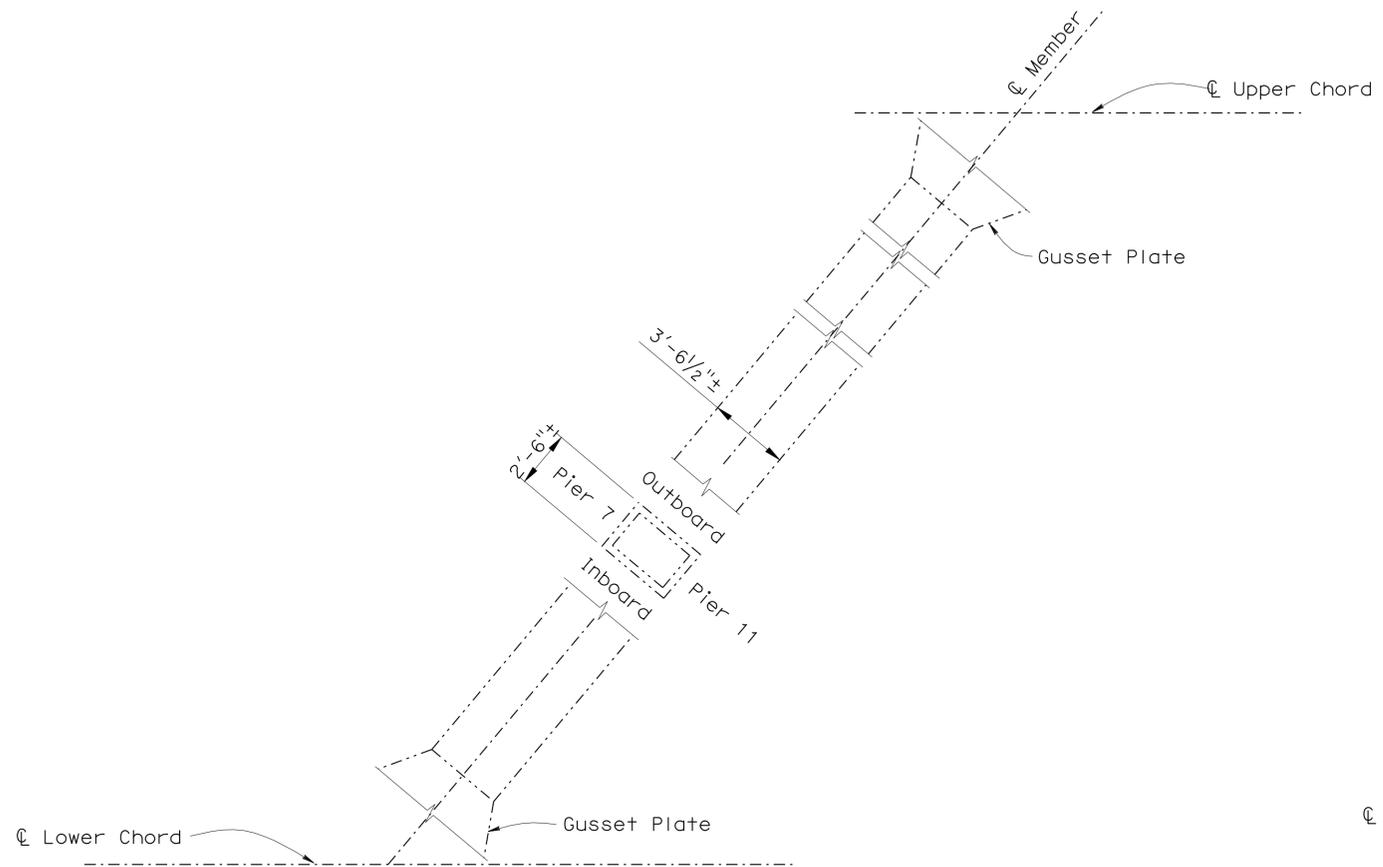
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

TIME PLOTTED => 16:07 USERNAME => s123631 DATE PLOTTED => 25-MAY-2012

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	83	95
David Soon 1-6-12 REGISTERED CIVIL ENGINEER DATE					
5-21-12				PLANS APPROVAL DATE	
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



(C) DIAGONAL WEB MEMBER ELEVATION

NO SCALE

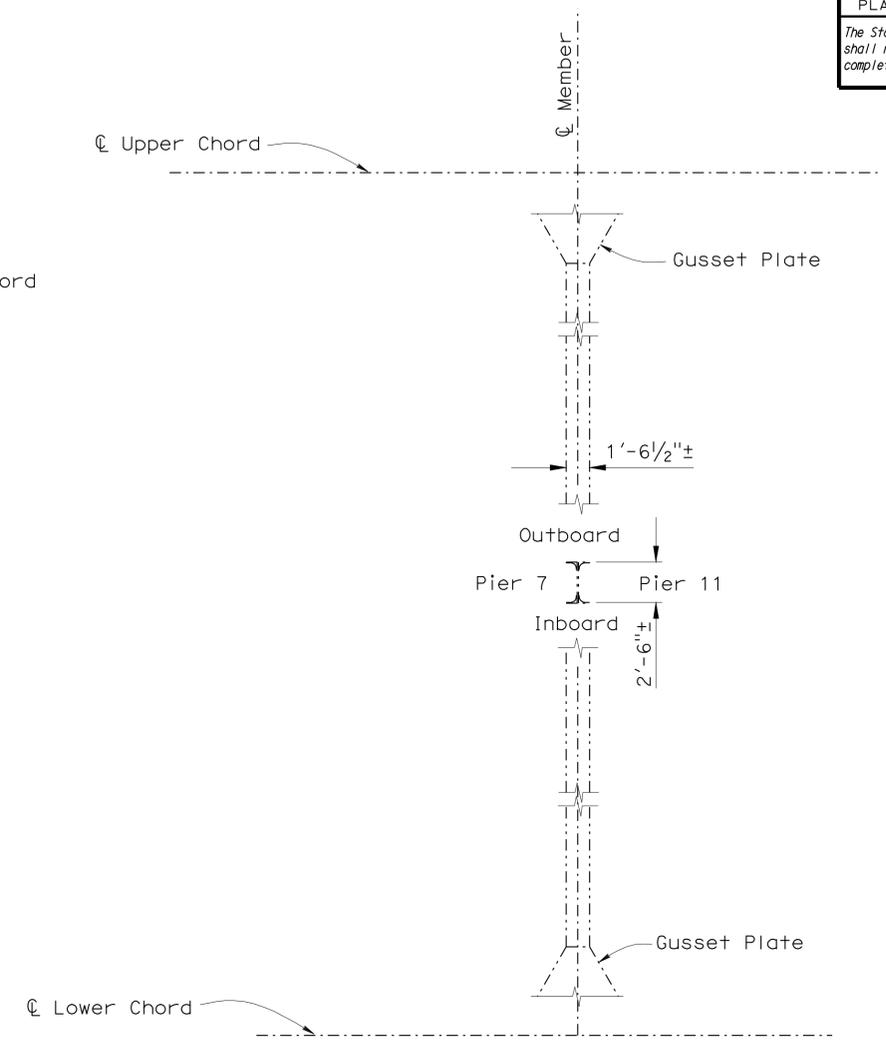
NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.
- ③ Members may angle left or right

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

LEGEND:

----- Indicates existing



(D) VERTICAL WEB MEMBER ELEVATION

NO SCALE

NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
TRUSS REHABILITATION	
SPOT BLAST CLEAN AND PAINT DETAILS No. 6	

DESIGN	BY David Soon/Justin Wood	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY David Soon	CHECKED Dhvani Desai

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

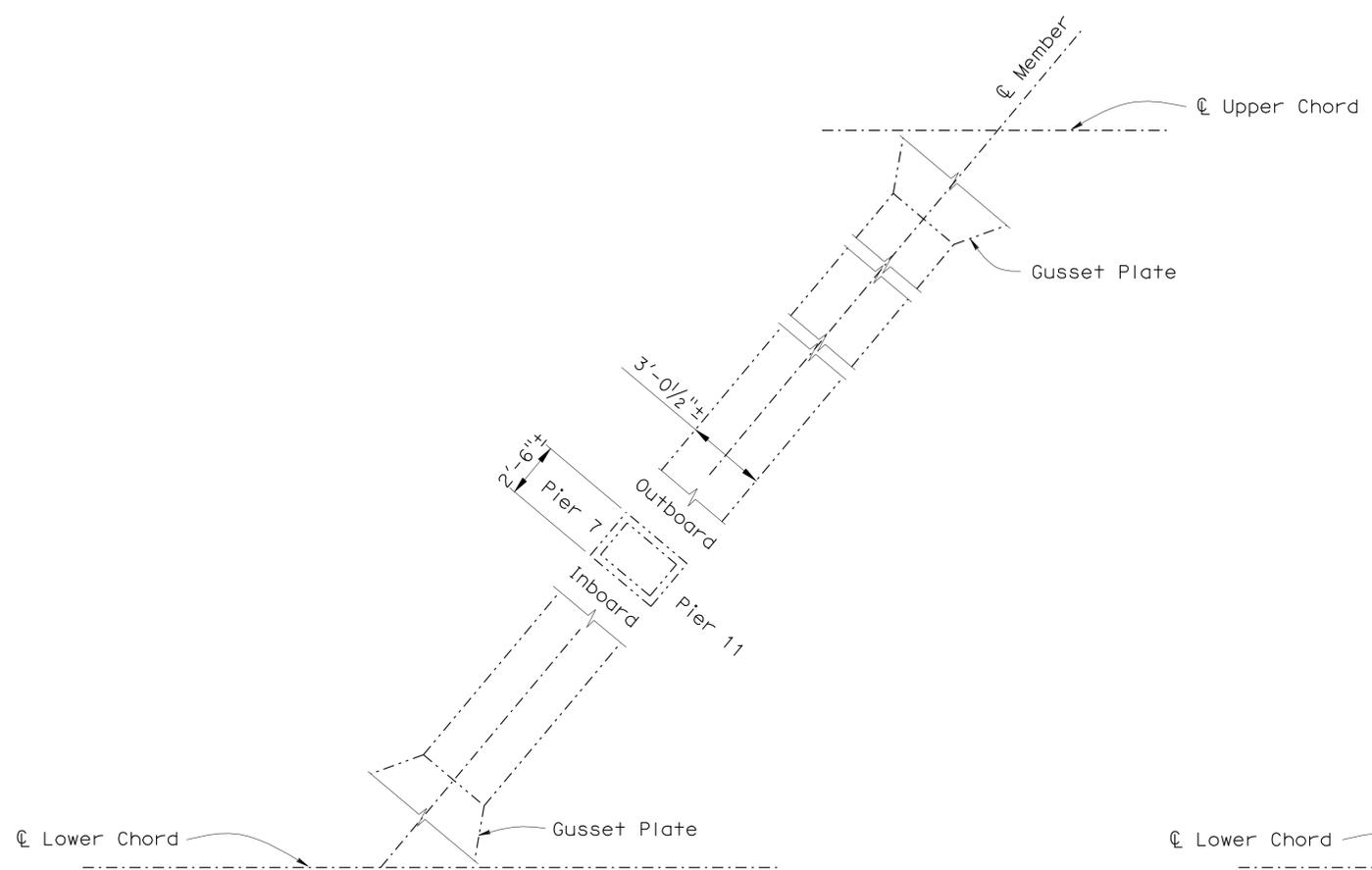
CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	5-11-11								
SHEET	48	OF 60							

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	84	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE
 5-21-12
 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.



(E) DIAGONAL WEB MEMBER ELEVATION

NO SCALE

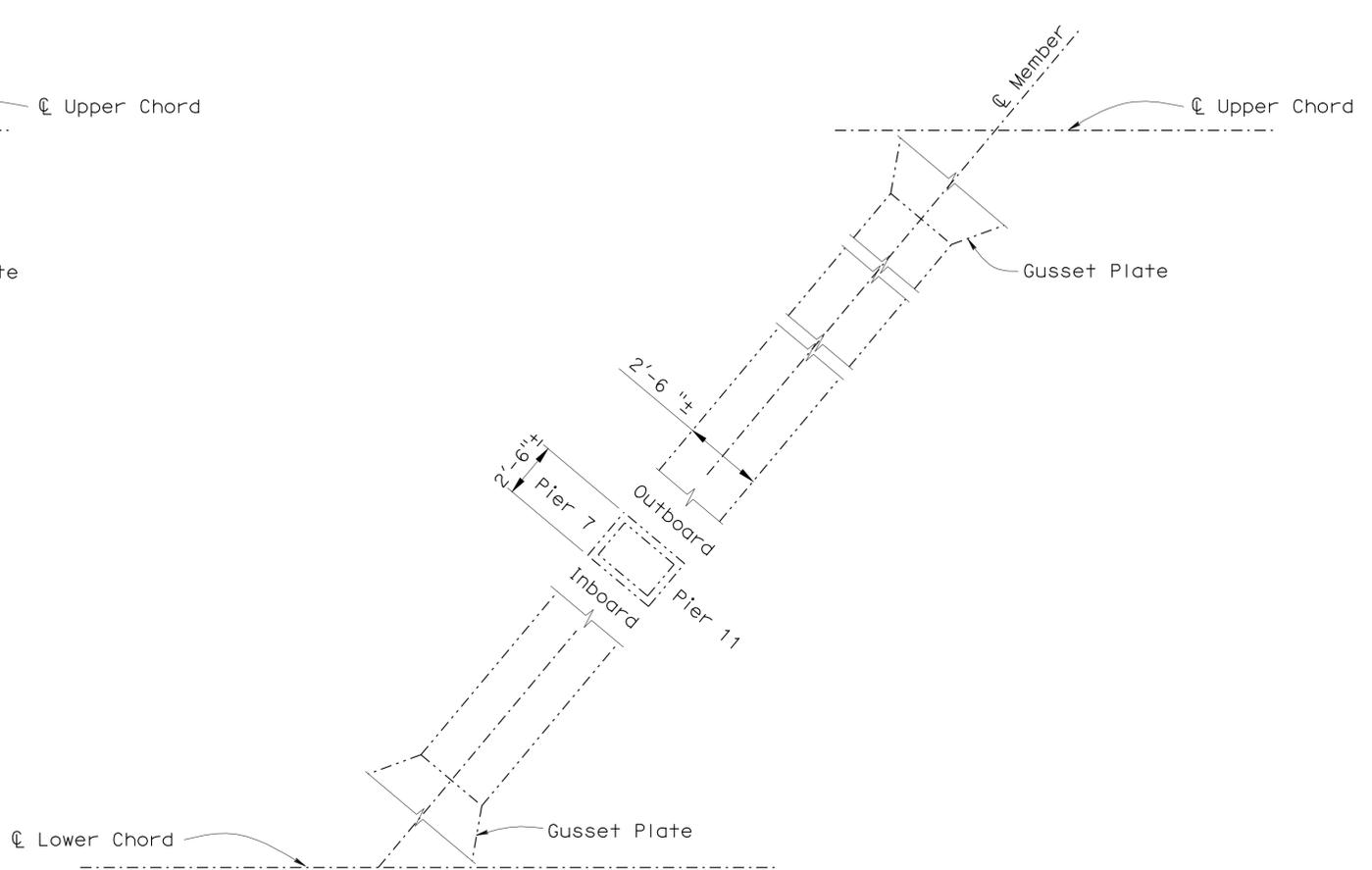
NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.
- ③ Members may angle left or right

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

LEGEND:

----- Indicates existing



(F) DIAGONAL WEB MEMBER ELEVATION

NO SCALE

NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.
- ③ Members may angle left or right

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
TRUSS REHABILITATION	
SPOT BLAST CLEAN AND PAINT DETAILS No. 7	

DESIGN	By David Soon/Justin Wood	CHECKED	Jun Ki Jung
DETAILS	By Bruno Jenko	CHECKED	Jun Ki Jung
QUANTITIES	By David Soon	CHECKED	Dhvani Desai

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



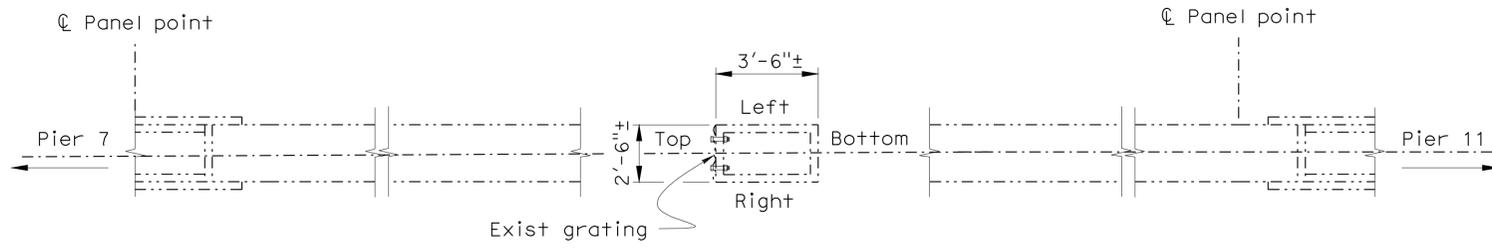
CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	5-11-11								
SHEET	49	OF 60							

USERNAME => s123631 DATE PLOTTED => 25-MAY-2012 TIME PLOTTED => 16:07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Bu+	70	28.0/29.2	85	95
David Soon 1-6-12				REGISTERED CIVIL ENGINEER DATE	
5-21-12				PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

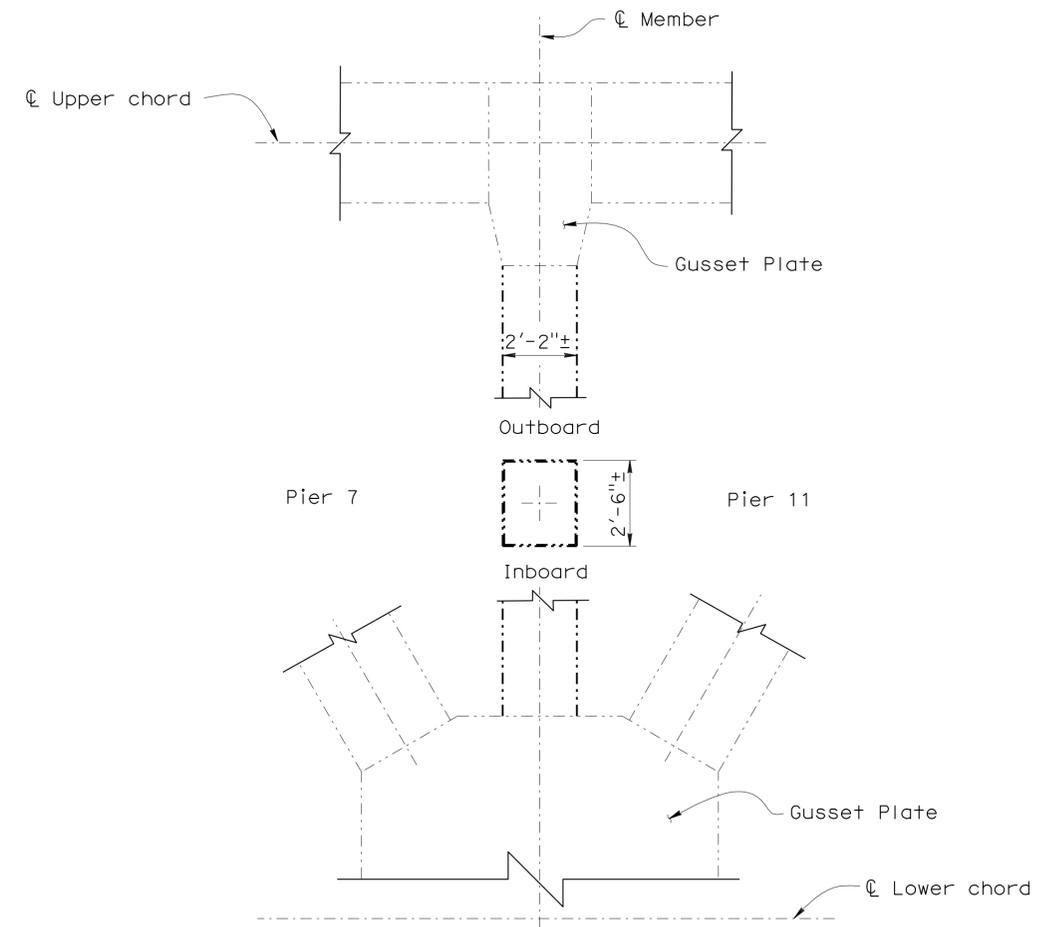


- NOTES:**
- Exact limits of spot blast clean and paint to be determined by the Engineer.
 - Bolts and rivets not shown.
 - Remove existing grating as required, paint member and grating, and then replace.

LEGEND:
 ----- Indicates existing

(G) LOWER CHORD PLAN VIEW

NO SCALE

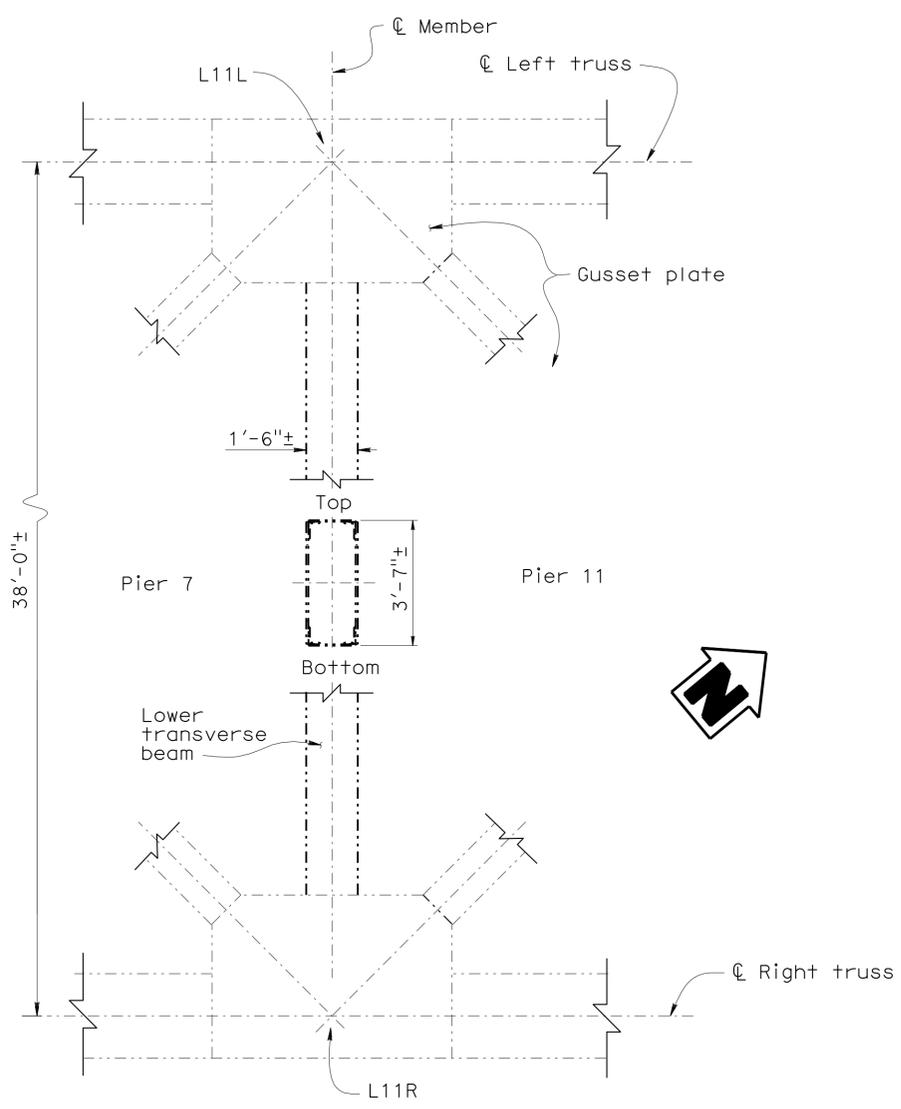


(I) VERTICAL WEB MEMBER ELEVATION

NO SCALE

- NOTES:**
- Exact limits of spot blast clean and paint to be determined by the Engineer.
 - Bolts and rivets not shown.

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



(H) LOWER TRANSVERSE BEAM PLAN VIEW

NO SCALE

Span 8 L11L to L11R shown, others similar

- NOTES:**
- Exact limits of spot blast clean and paint to be determined by the Engineer.
 - Bolts and rivets not shown.

DESIGN	BY David Soon/Justin Wood	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY David Soon	CHECKED Dhvani Desai

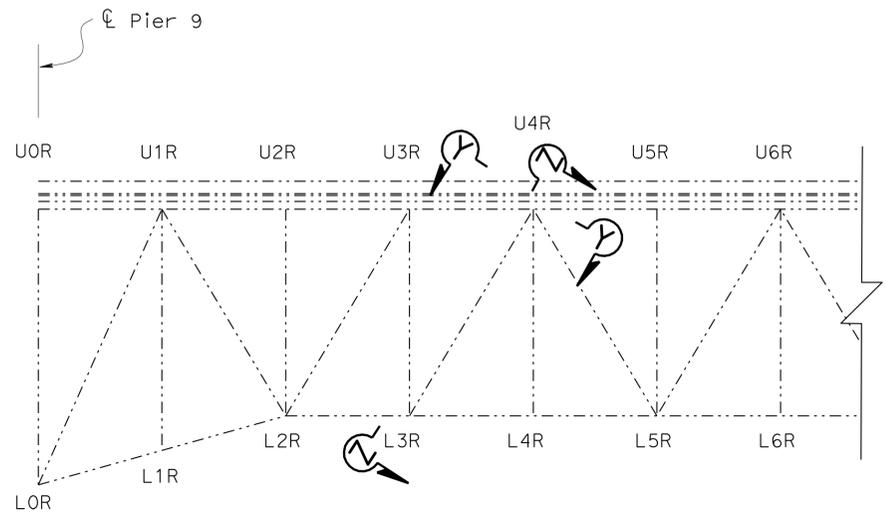
STATE OF CALIFORNIA	
DEPARTMENT OF TRANSPORTATION	

DIVISION OF ENGINEERING SERVICES	
STRUCTURE DESIGN	
DESIGN BRANCH 7	

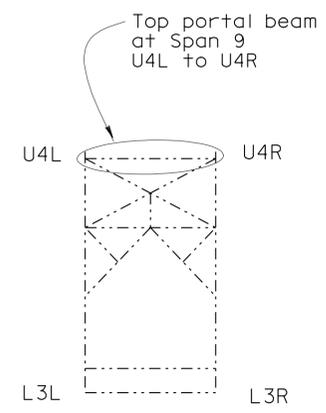
BRIDGE NO.	12-0134
POST MILE	28.2

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
TRUSS REHABILITATION	
SPOT BLAST CLEAN AND PAINT DETAILS No. 8	

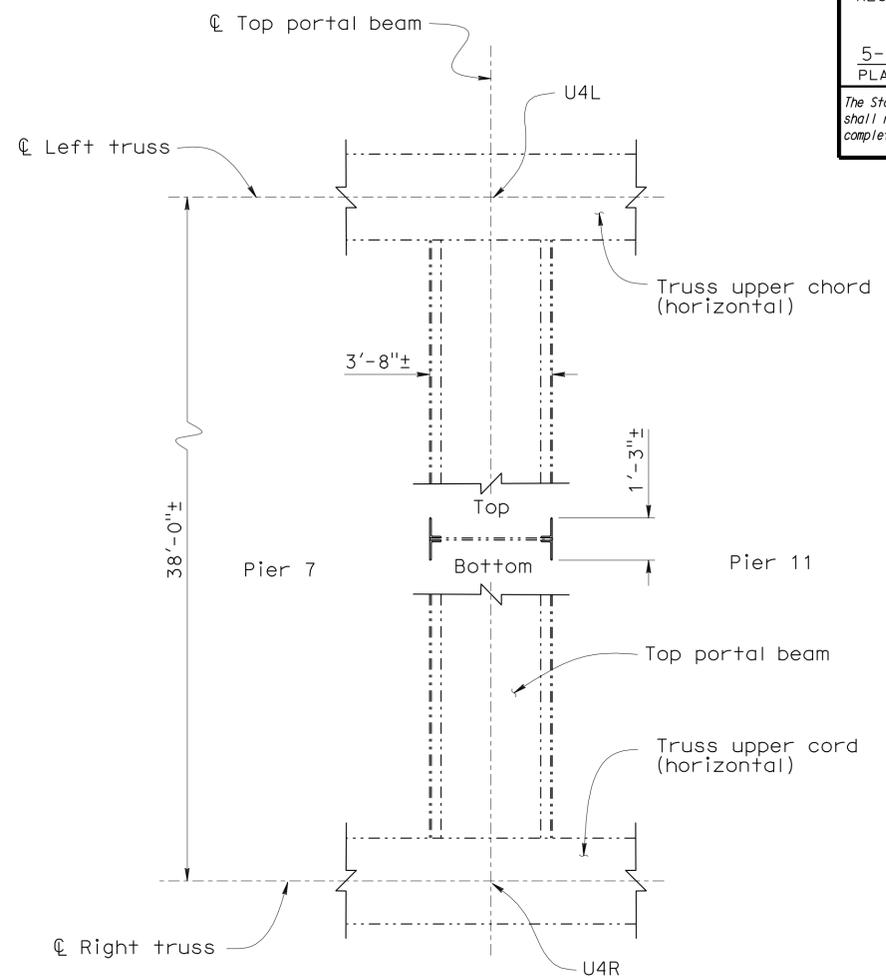
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	86	95
David Soon 1-6-12				REGISTERED CIVIL ENGINEER DATE	
5-21-12				PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



**LOCATION DIAGRAM
SPAN 9 TRUSS PARTIAL ELEVATION**
NO SCALE



VIEW Z-Z
NO SCALE
Span 9
U4 to L3 Portal



VIEW Y-Y
NO SCALE

NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.

LEGEND:

--- Indicates existing

J TOP PORTAL BEAM
SPAN 9 U4R to U4L

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

DESIGN	BY David Soon/Justin Wood	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY David Soon	CHECKED Dhvani Desai

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS REHABILITATION
SPOT BLAST CLEAN AND PAINT DETAILS No. 9

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES										
SHEET	51	OF	60							

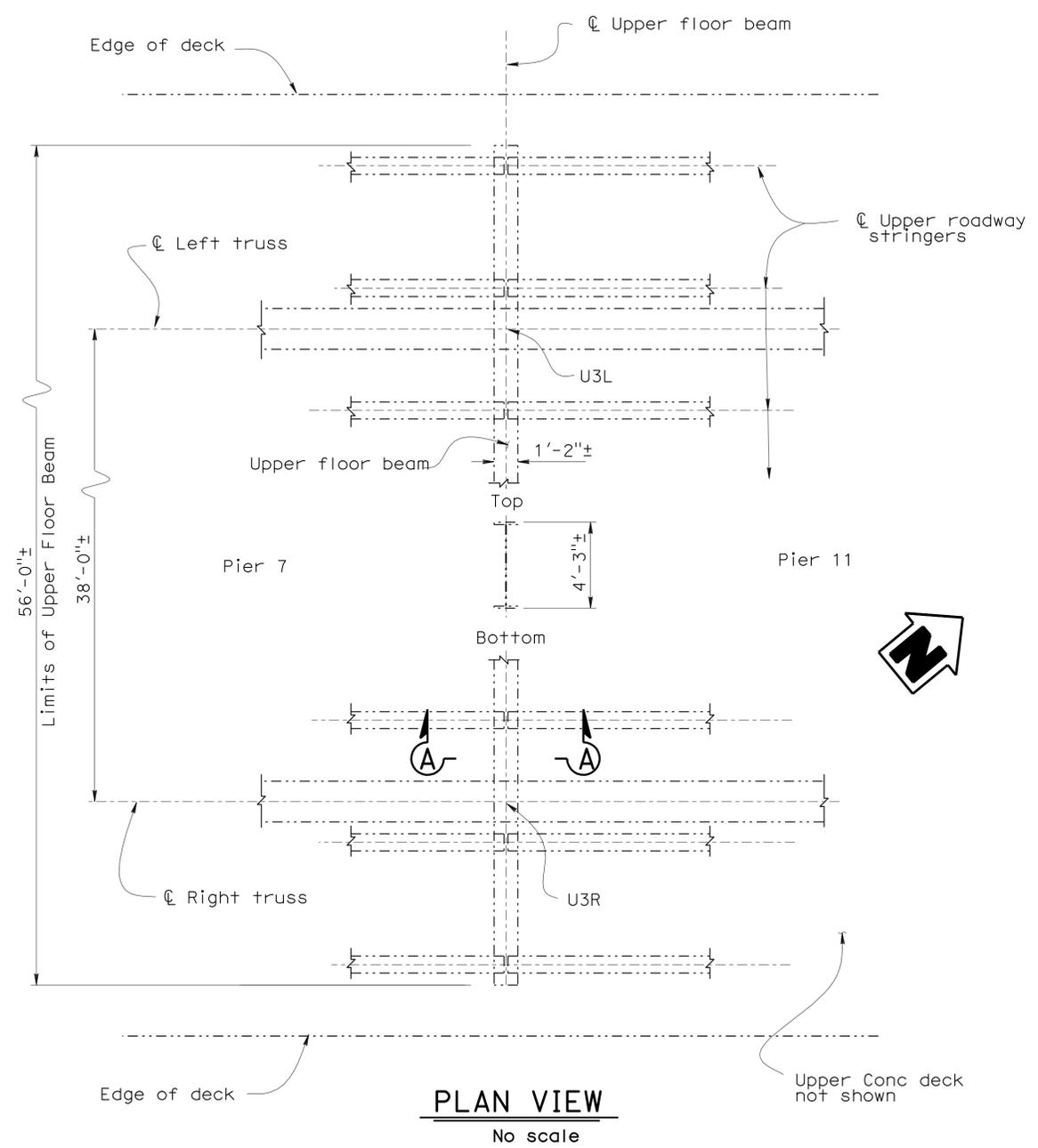
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	87	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE

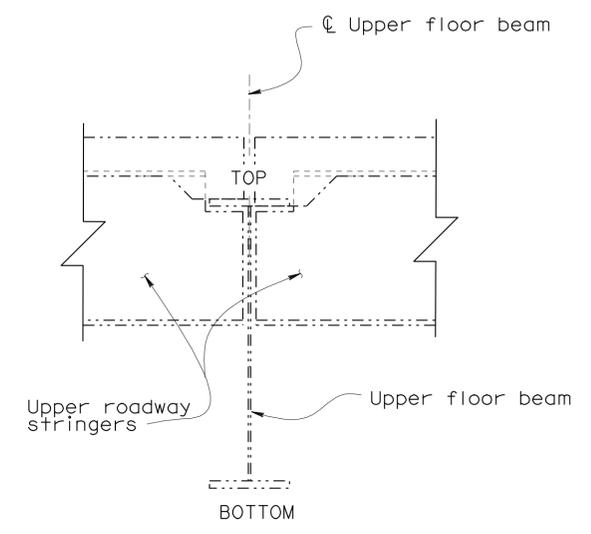
5-21-12
 PLANS APPROVAL DATE

David Soon
 No. 51862
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

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



PLAN VIEW
 No scale



**VIEW A-A
 UPPER FLOOR BEAM**
 No scale

NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.

LEGEND:

----- Indicates existing

(K) UPPER FLOOR BEAM
 SPAN 9 U3L to U3R

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

DESIGN	BY David Soon/Justin Wood	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY David Soon	CHECKED Dhvani Desai

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS REHABILITATION
SPOT BLAST CLEAN AND PAINT DETAILS No. 10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 03227 UNIT: 3592
 EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES

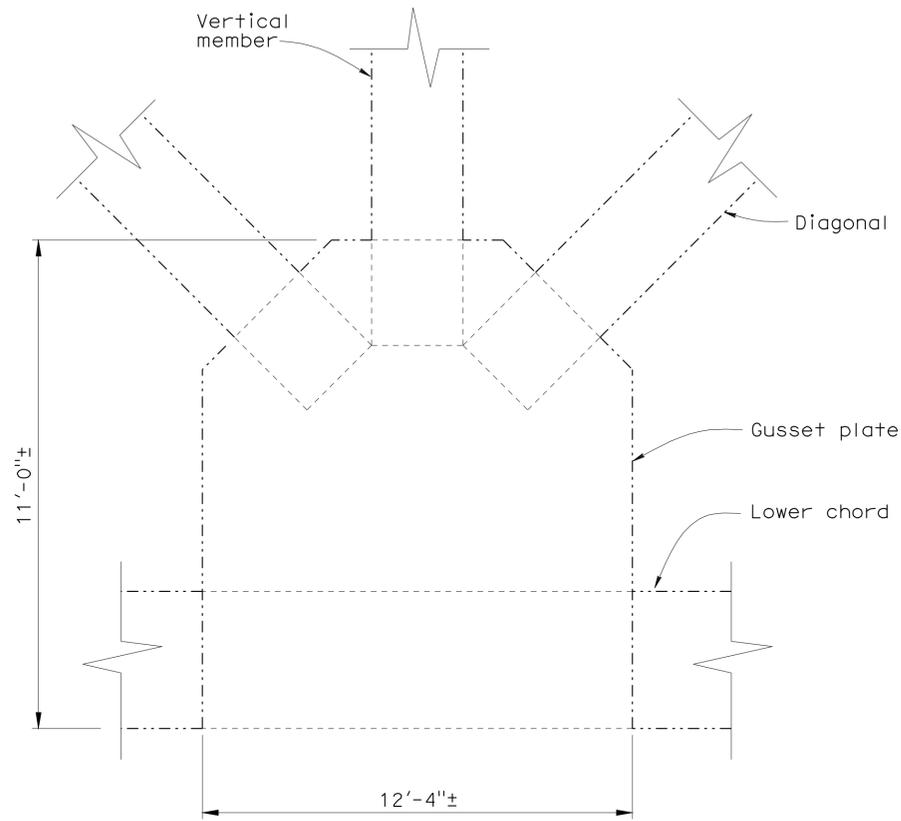
REVISION DATES	SHEET	OF
5-11-11	52	60

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	88	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE

5-21-12
 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.



(L) GUSSET AT PANEL POINT ELEVATION

NO SCALE

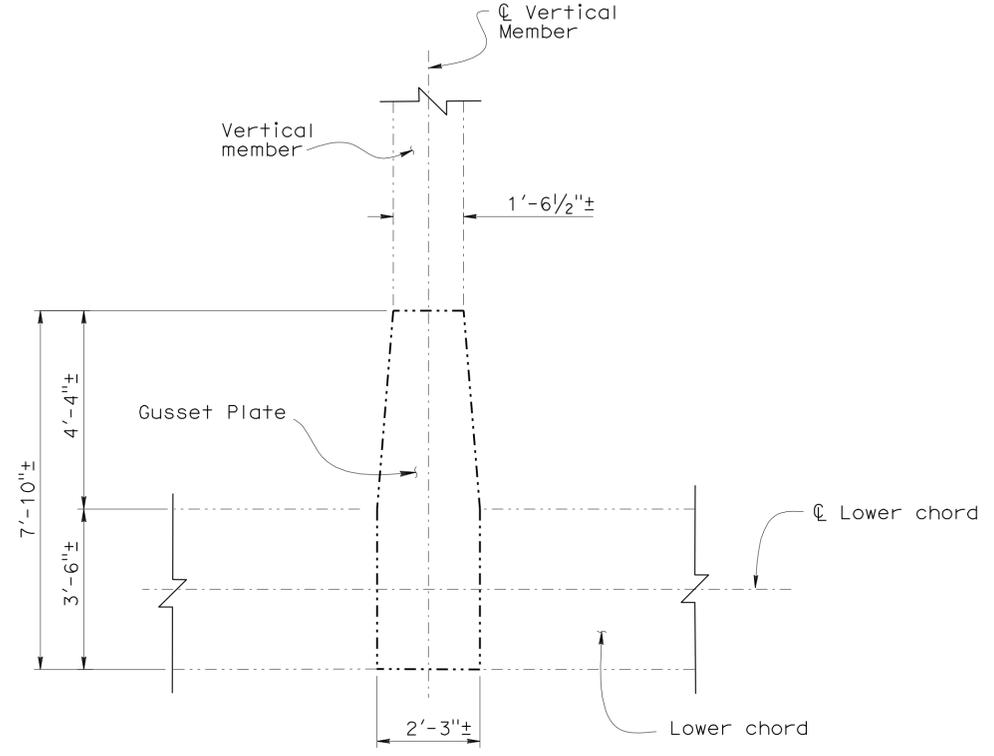
NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.
- ③ Not all members shown.

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

LEGEND:

----- Indicates existing



(M) GUSSET AT PANEL POINT ELEVATION

NO SCALE

NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.
- ③ Not all members shown.

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
TRUSS REHABILITATION	
SPOT BLAST CLEAN AND PAINT DETAILS No. 11	

DESIGN	By David Soon/Justin Wood	CHECKED	Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO.	12-0134	
DETAILS	By Bruno Jenko	CHECKED	Jun Ki Jung		DESIGN BRANCH	7	POST MILE	28.2
QUANTITIES	By David Soon	CHECKED	Dhvani Desai					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



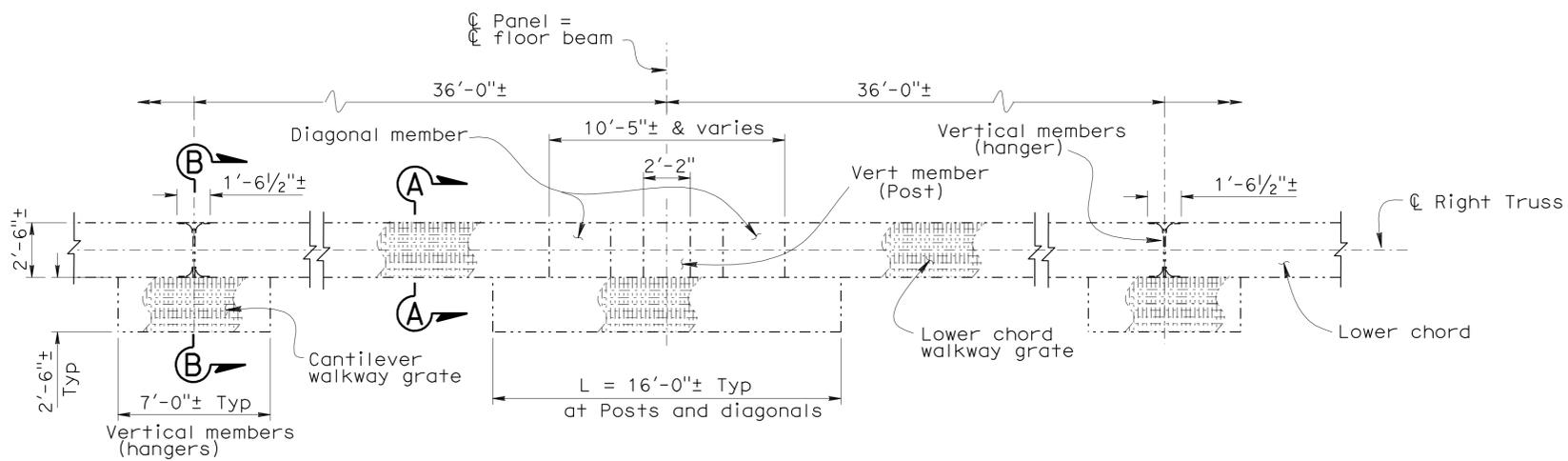
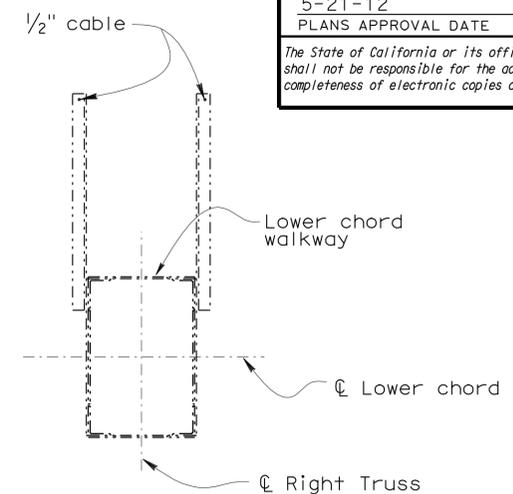
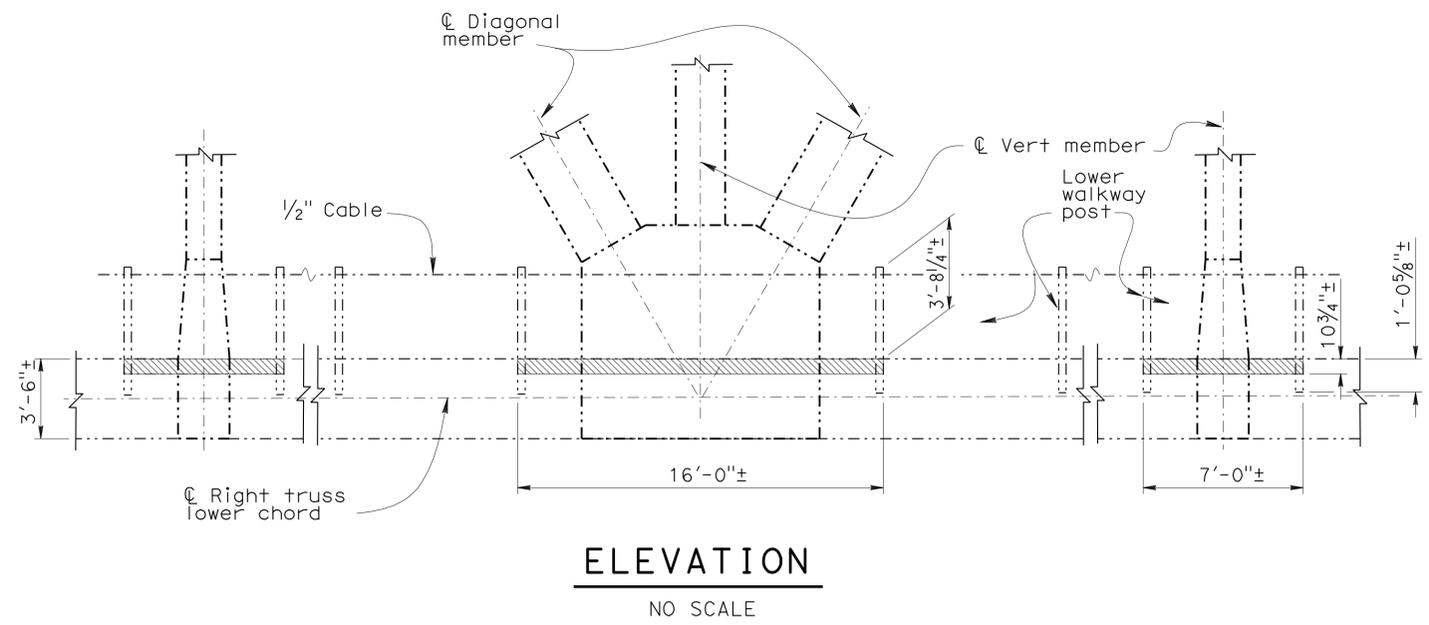
CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
5-11-11	53	60

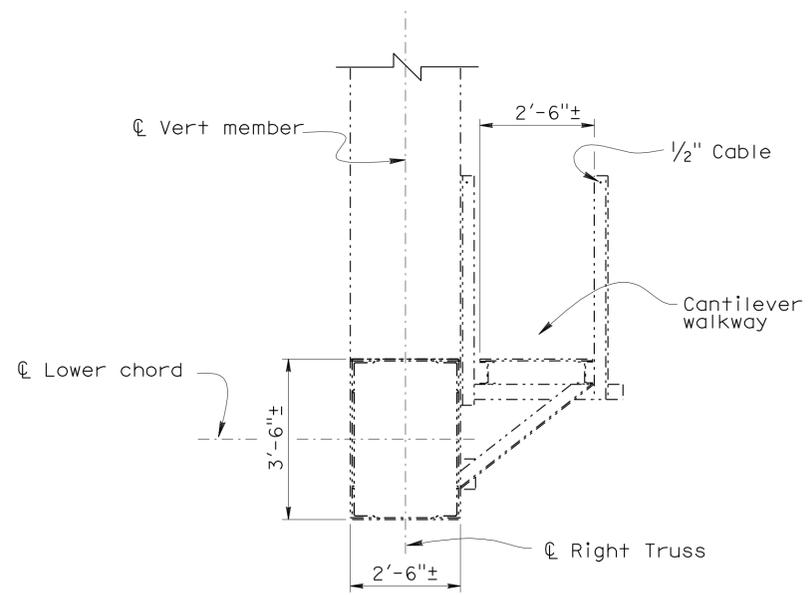
TIME PLOTTED => 16:20 USERNAME => s123631 DATE PLOTTED => 25-MAY-2012

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	89	95
David Soon			1-6-12	REGISTERED CIVIL ENGINEER DATE	
5-21-12			PLANS APPROVAL DATE		
David Soon			REGISTERED PROFESSIONAL ENGINEER		
No. 51862			Exp. 6-30-12		
CIVIL			STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



"L" lengths at various locations:

Span 10	L12	L = 8'-3"±
Span 9	L13	L = 19'-6"±
Pier 8		L = 22'-0"±
Pier 9 & 10		L = 17'-3"±



(N) LOWER CHORD - WALKWAY

Right walkway shown, left similar.

NOTES:

- Exact limits of spot blast clean and paint to be determined by the Engineer.
- Bolts and rivets not shown.
- Grating material details not shown.

LEGEND:

----- Indicates existing

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

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
TRUSS REHABILITATION	
SPOT BLAST CLEAN AND PAINT DETAILS No. 12	

DESIGN	BY David Soon/Justin Wood	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED JKJ / E0 Jr.			POST MILE	28.2
QUANTITIES	BY David Soon	CHECKED Dhvani Desai				

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

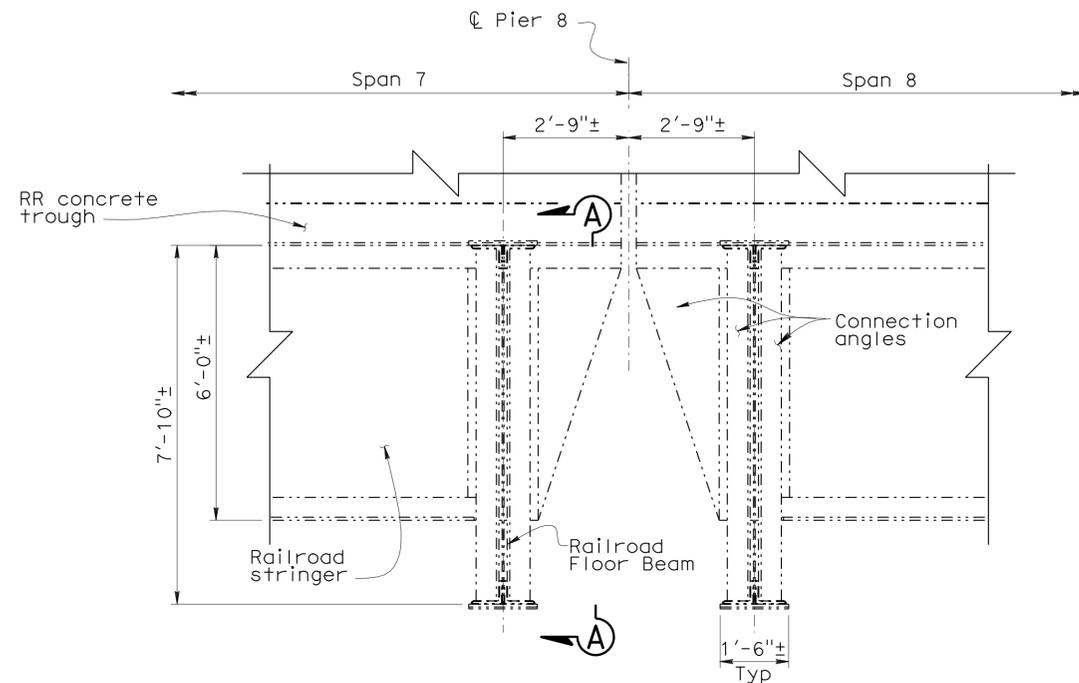


CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

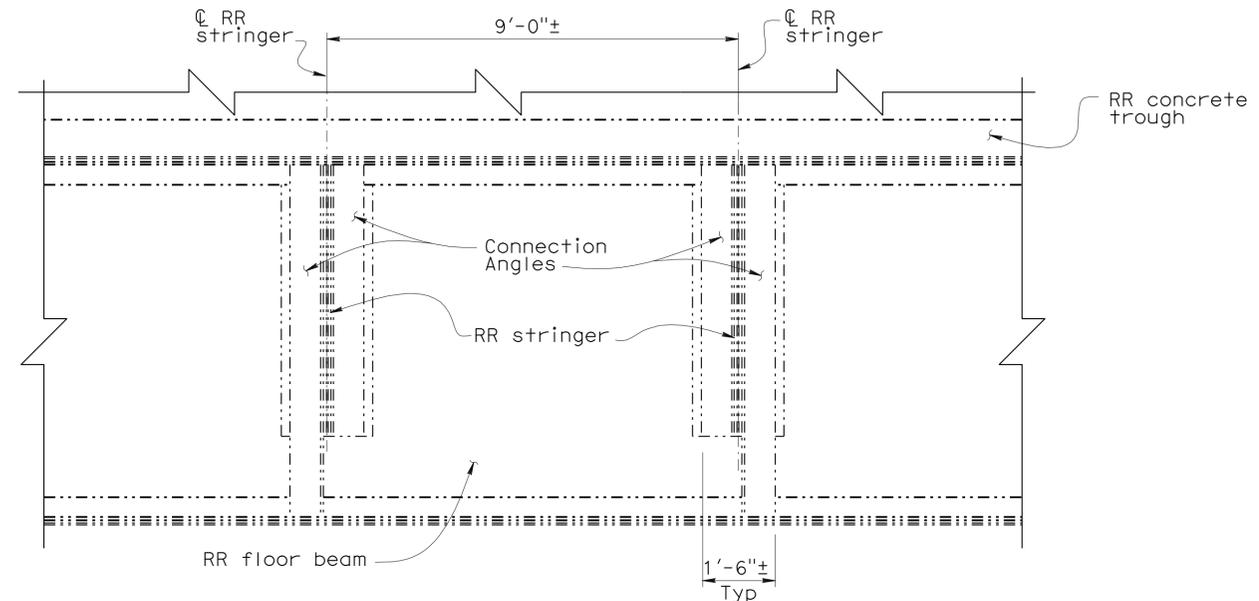
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
3-2-11	5-11-11	7-21-11	9-26-11	54	60

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	90	95
David Soon 1-6-12 REGISTERED CIVIL ENGINEER DATE					
5-21-12				PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



ELEVATION
No scale



SECTION A-A
No scale

○ CONNECTION ANGLE

NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.
- ③ There are two stringer to floor beam connections per location.

LEGEND:

----- Indicates existing

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

DESIGN	BY David Soon/Justin Wood	CHECKED Jun Ki Jung
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung
QUANTITIES	BY David Soon	CHECKED Dhvani Desai

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH **7**

BRIDGE NO.	12-0134
POST MILE	28.2

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS REHABILITATION
SPOT BLAST CLEAN AND PAINT DETAILS No. 13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

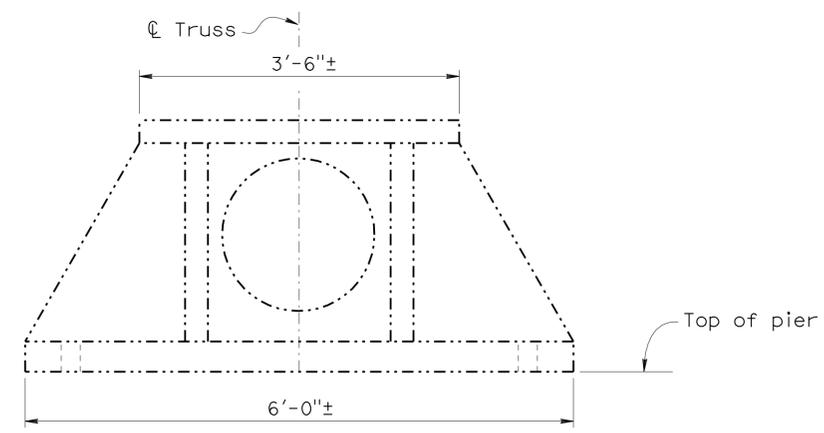
DISREGARD PRINTS BEARING EARLIER REVISION DATES

3-24-11 5-12-11

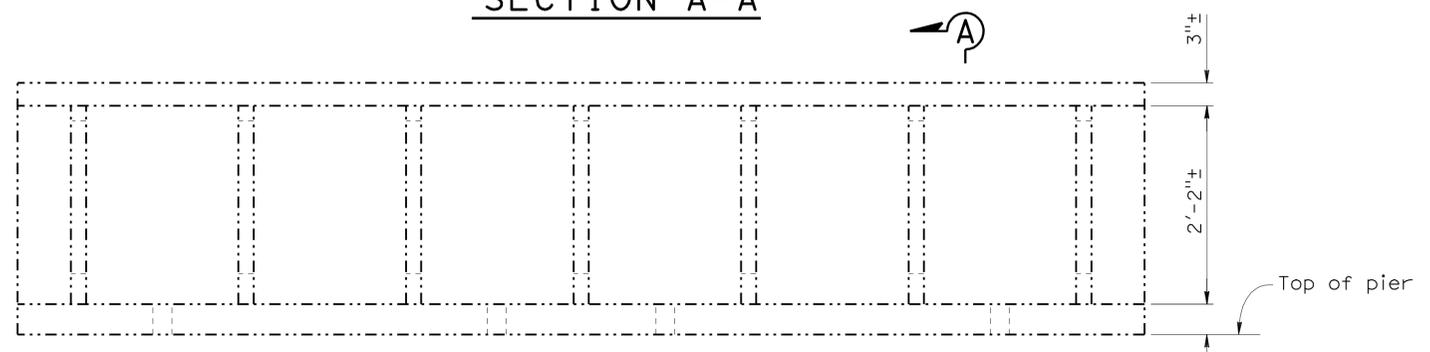
REVISION DATES

SHEET 55 OF 60

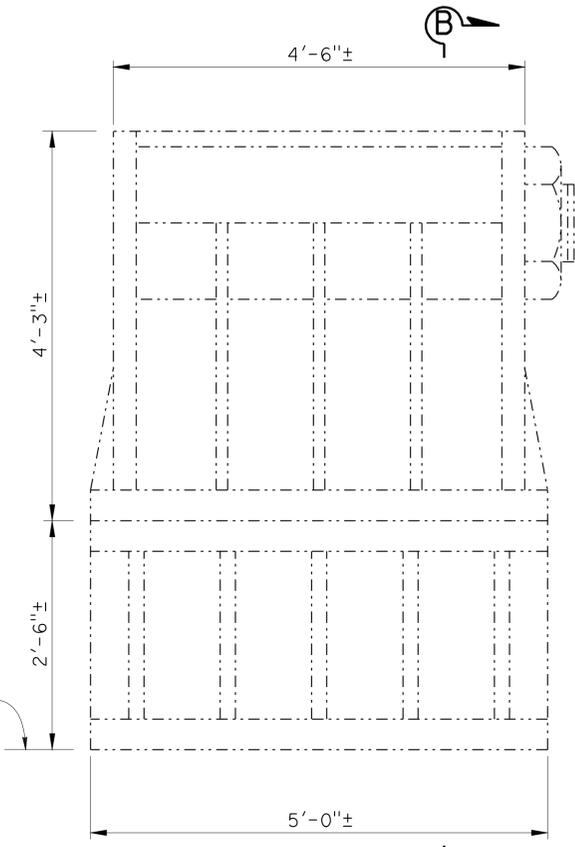
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Bu+	70	28.0/29.2	91	95
David Soon 1-6-12 REGISTERED CIVIL ENGINEER DATE					
5-21-12 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



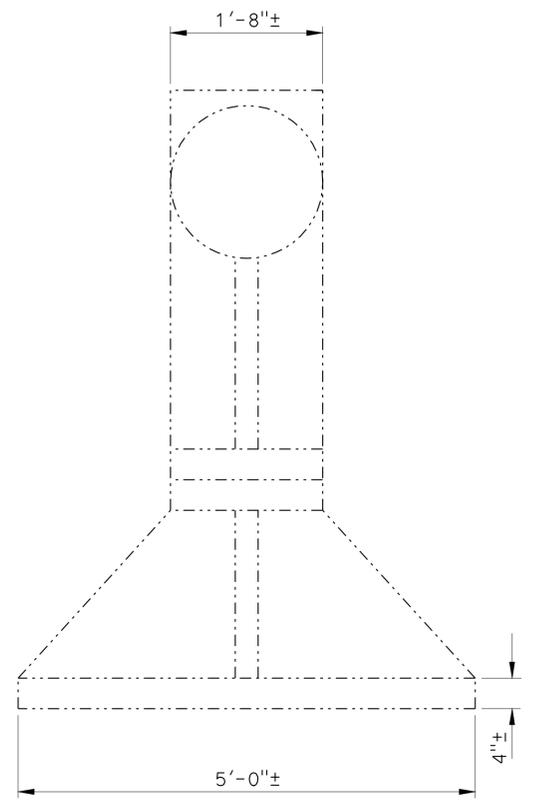
SECTION A-A



ELEVATION



ELEVATION



SECTION B-B

Q BEARING AT PIER 8

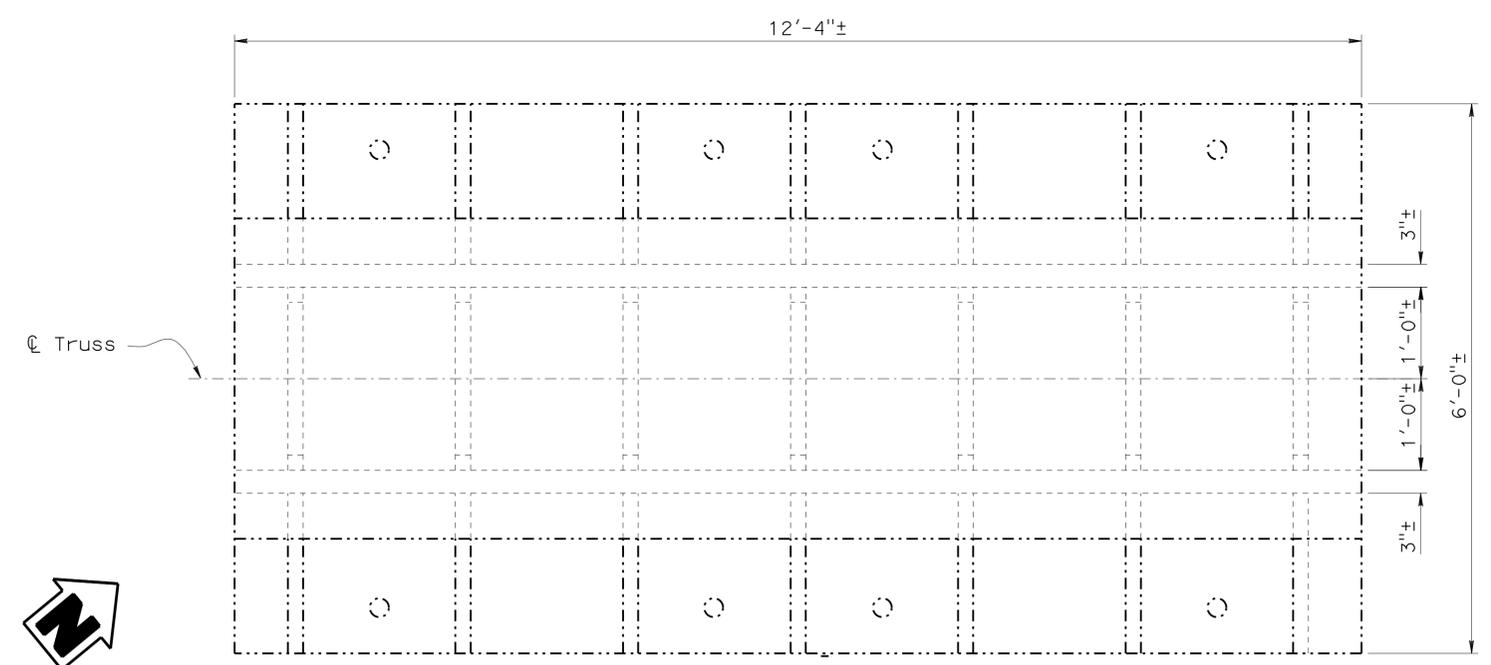
NO SCALE

NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.
- ③ Not all members shown.

LEGEND:

--- Indicates existing



P BEARING AT PIER 10

1" = 1'-0"

NOTES:

- ① Exact limits of spot blast clean and paint to be determined by the Engineer.
- ② Bolts and rivets not shown.

LEGEND:

--- Indicates existing

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

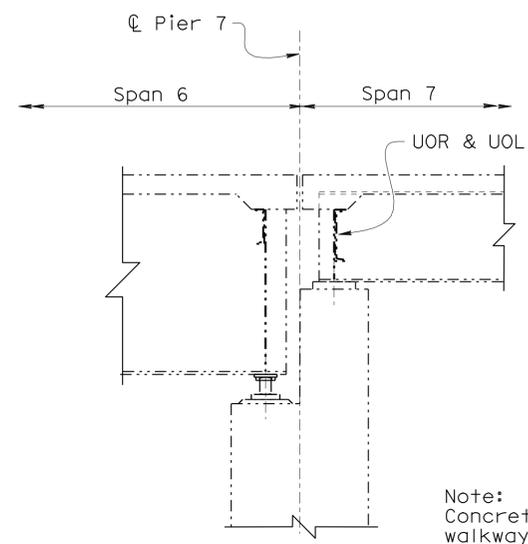


DESIGN	BY David Soon/Justin Wood	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	BY David Soon	CHECKED Dhvani Desai				

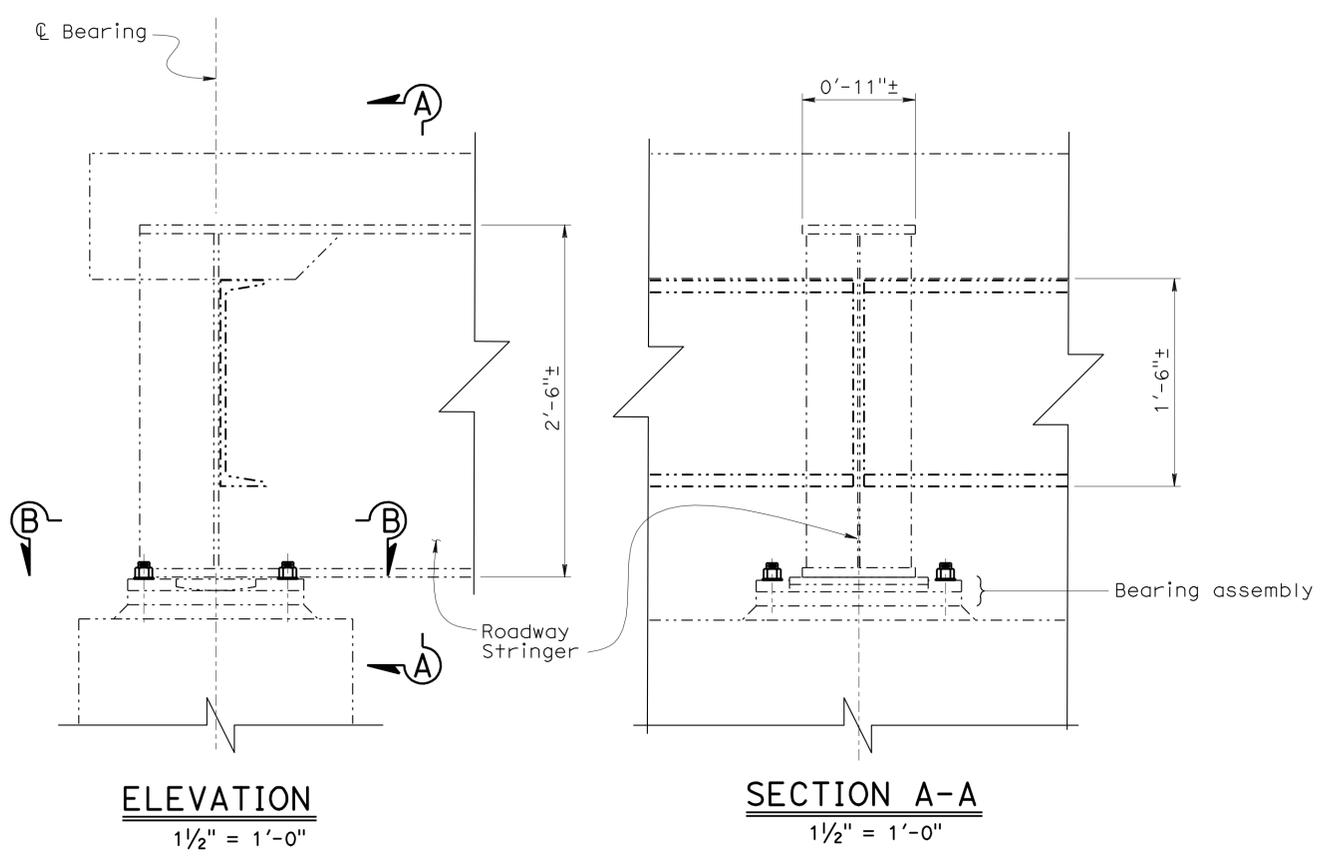
SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
TRUSS REHABILITATION	
SPOT BLAST CLEAN AND PAINT DETAILS No. 14	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	92	95

David Soon 1-6-12
 REGISTERED CIVIL ENGINEER DATE
 5-21-12
 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.

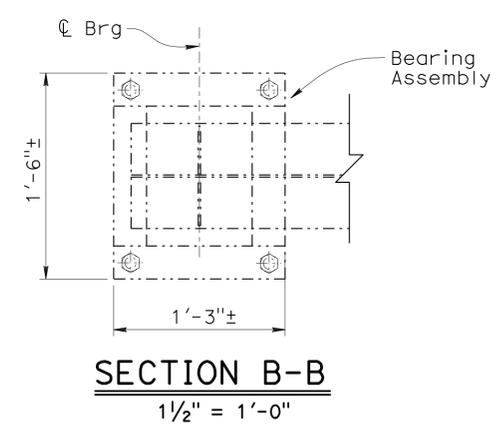


PIER LAYOUT
3/8" = 1'-0"



ELEVATION
1/2" = 1'-0"

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



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

- NOTES:**
- Exact limits of spot blast clean and paint to be determined by the Engineer.
 - Bolts and rivets not shown.
 - There are 10 bearing assemblies per location.
- LEGEND:**
- Indicates existing

(R) BEARING ASSEMBLIES

SPAN 7 UOR-UOL shown
SPAN 10 U12R-U12L similar

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

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS REHABILITATION
SPOT BLAST CLEAN AND PAINT DETAILS No. 15

DESIGN	BY David Soon/Justin Wood	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	BY David Soon	CHECKED Dhvani Desai				

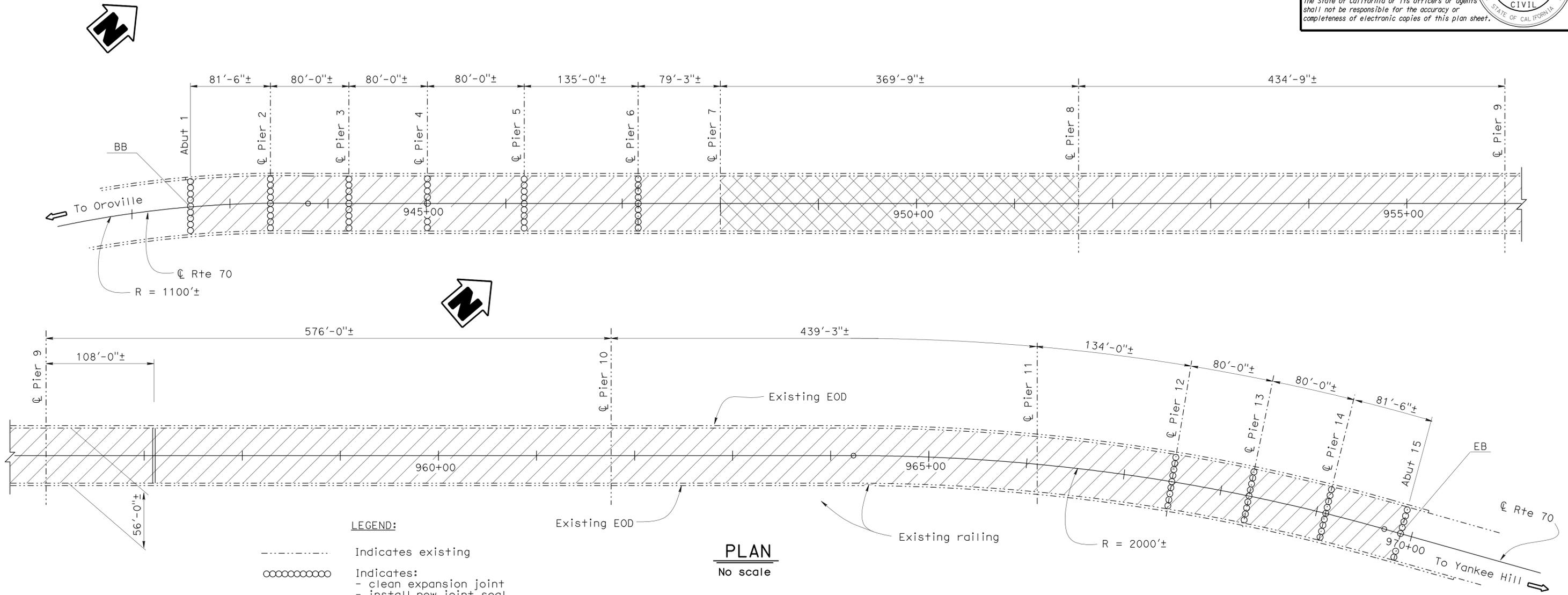
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	93	95

David Soon 1-6-12
REGISTERED CIVIL ENGINEER DATE

5-21-12
PLANS APPROVAL DATE

David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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- LEGEND:**
- Indicates existing
 - Indicates:
 - clean expansion joint
 - install new joint seal
 - ==== Indicates:
 - remove existing Asphaltic Plug Joint Seal
 - clean all concrete surfaces
 - install new Asphaltic Plug Joint Seal
 - ▨ Indicates prepare concrete bridge deck surface and treat bridge deck.
 - ▩ Indicates (Span 7 only):
 - Step 1 - Remove existing chip seal.
 - Step 2 - Prepare concrete bridge deck surface.
 - Step 3 - Treat bridge deck. Cure for a minimum of 24 hours prior to preparing bridge deck surface.
 - Step 4 - Prepare concrete bridge deck surface.
 - Step 5 - Construct multilayer polymer overlay, 3/8" minimum.

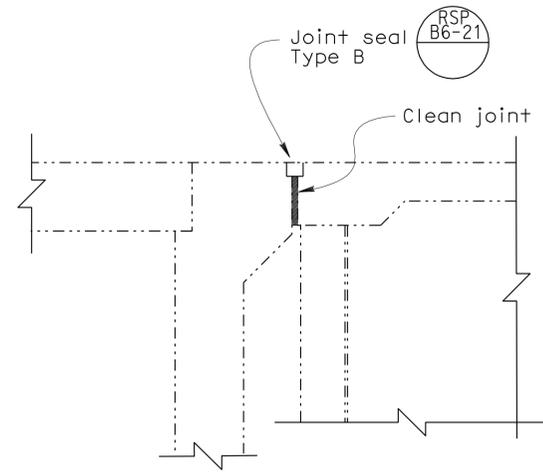
PLAN
No scale

- NOTES:**
- For remove unsound concrete and place rapid setting concrete patch, see "DECK REHABILITATION DETAILS No. 3" sheet.
 - Approximate span lengths measured along \perp Rte 70.

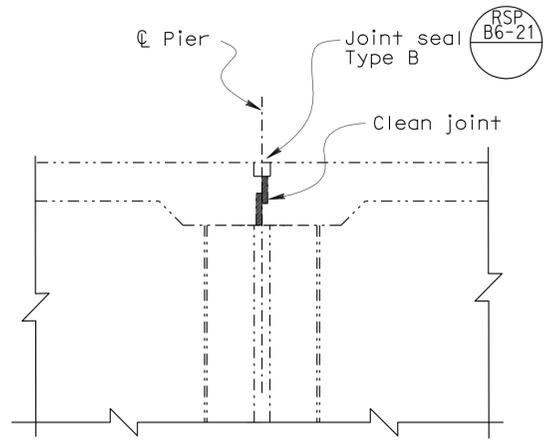
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
DECK REHABILITATION
DETAILS No. 1

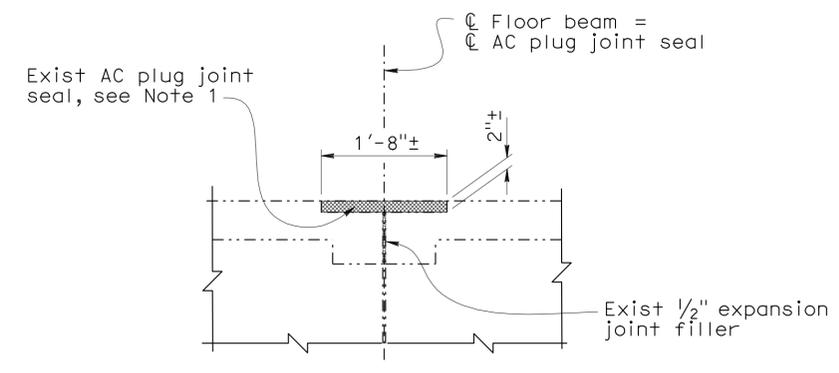
DESIGN	BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	BY David Soon	CHECKED Dhvani Desai				



EXISTING JOINTS AT ABUTMENTS
 $\frac{3}{4}'' = 1'-0''$

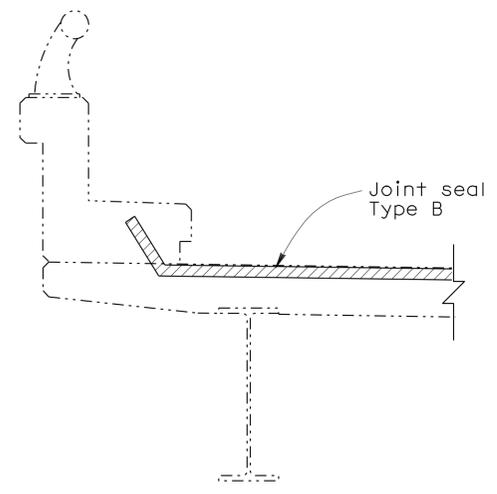


EXISTING JOINTS AT PIERS
 $\frac{3}{4}'' = 1'-0''$



ASPHALTIC (AC) PLUG JOINT SEAL
 $\frac{3}{4}'' = 1'-0''$

- Note 1:
- remove existing Asphaltic Plug Joint Seal
 - clean all concrete surfaces
 - install new Asphaltic Plug Joint Seal
 - exact location to be determined by the Engineer



JOINT SEAL AT LOW SIDE OF DECK
 $\frac{3}{4}'' = 1'-0''$

JOINT SEAL TABLE					
Location	Station	Approximate Length	Min. "MR" (in)	Depth to clean joint (in)	Existing Water Stop
Abut 1	942+60±	58'-0"±	1 *	1'-0"±	none
Pier 2	943+41±	58'-0"±	1 *	1'-0"±	none
Pier 3	944+21±	58'-0"±	1 *	1'-0"±	none
Pier 4	945+01±	58'-0"±	1 *	1'-0"±	none
Pier 5	945+81±	58'-0"±	1 1/2 *	1'-0"±	none
Pier 6	947+16±	58'-0"±	1 *	1'-0"±	none
Pier 12	967+49±	58'-0"±	1 1/2 *	1'-0"±	none
Pier 13	968+29±	58'-0"±	1 *	1'-0"±	none
Pier 14	969+09±	58'-0"±	1 *	1'-0"±	none
Abut 15	969+91±	58'-0"±	1 *	1'-0"±	none
Span 9	957+08±	56'-0"±	AC plug	N/A	none

RSP B6-21
 * Type B seal only

LEGEND:
 - - - - - Indicates existing

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

DESIGN BY David Soon DETAILS BY Bruno Jenko QUANTITIES BY David Soon	CHECKED Jun Ki Jung CHECKED Jun Ki Jung CHECKED Dhvani Desai	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO. 12-0134 POST MILE 28.2	SEISMIC RETROFIT WEST BRANCH FEATHER RIVER BRIDGE DECK REHABILITATION DETAILS No. 2
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			CU 03227 UNIT: 3592 EA 1E5101 PROJECT: 03 0000 0266	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 59 OF 60

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

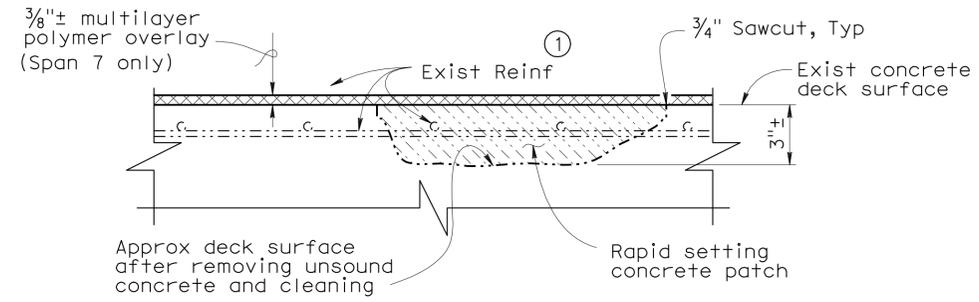
FILE => 12-0134-r-tr-m-deck-rehab-02.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	70	28.0/29.2	95	95
David Soon REGISTERED CIVIL ENGINEER			1-6-12 DATE		
5-21-12 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.					



DECK REPAIR TABLE					
Remove unsound concrete and patch with rapid setting concrete					
Bridge name	Bridge number	Approximate area of unsound concrete deck (percent)	Approximate depth of unsound concrete (inches)	Approximate volume of unsound concrete (cf)	Approximate volume of Rapid-set concrete patch (cf)
WEST BRANCH FEATHER RIVER BRIDGE	12-0134	1 (except Span 7) 5 (Span 7)	3±	590	590

Locations and limits to be determined by the Engineer.



DECK REPAIR DETAIL (SPAN 7 ONLY)

NO SCALE

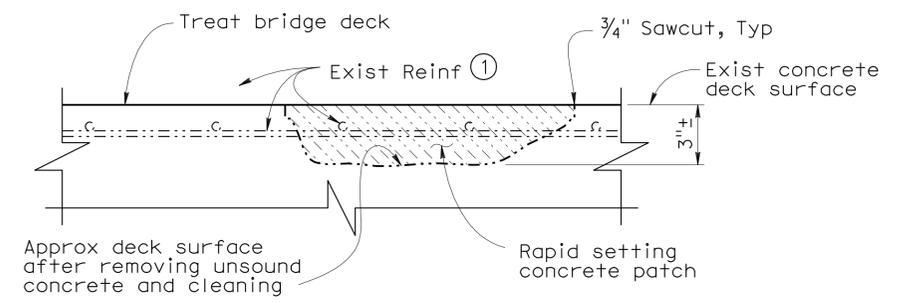
NOTES:

- ① Reinforcement may be encountered during concrete removal and is to remain undamaged.
- 3/4" saw cut limits shall be made in rectangular shape.

LEGEND:

- Indicates unsound concrete removal area.
- Indicates 3/8"± multilayer polymer overlay (Span 7 only).
- Indicates existing

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



DECK REPAIR DETAIL

NO SCALE

NOTES:

- ① Reinforcement may be encountered during concrete removal and is to remain undamaged.
- 3/4" saw cut limits shall be made in rectangular shape.

LEGEND:

- Indicates unsound concrete removal area.
- Indicates existing

SEISMIC RETROFIT	
WEST BRANCH FEATHER RIVER BRIDGE	
DECK REHABILITATION	
DETAILS No. 3	

DESIGN BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 12-0134
DETAILS BY Bruno Jenko	CHECKED Jun Ki Jung		POST MILE 28.2
QUANTITIES BY David Soon	CHECKED Dhvani Desai		

CU 03227 UNIT: 3592
EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES								SHEET 60 OF 60
5-2-11	5-12-11	9-26-11	12-27-11					