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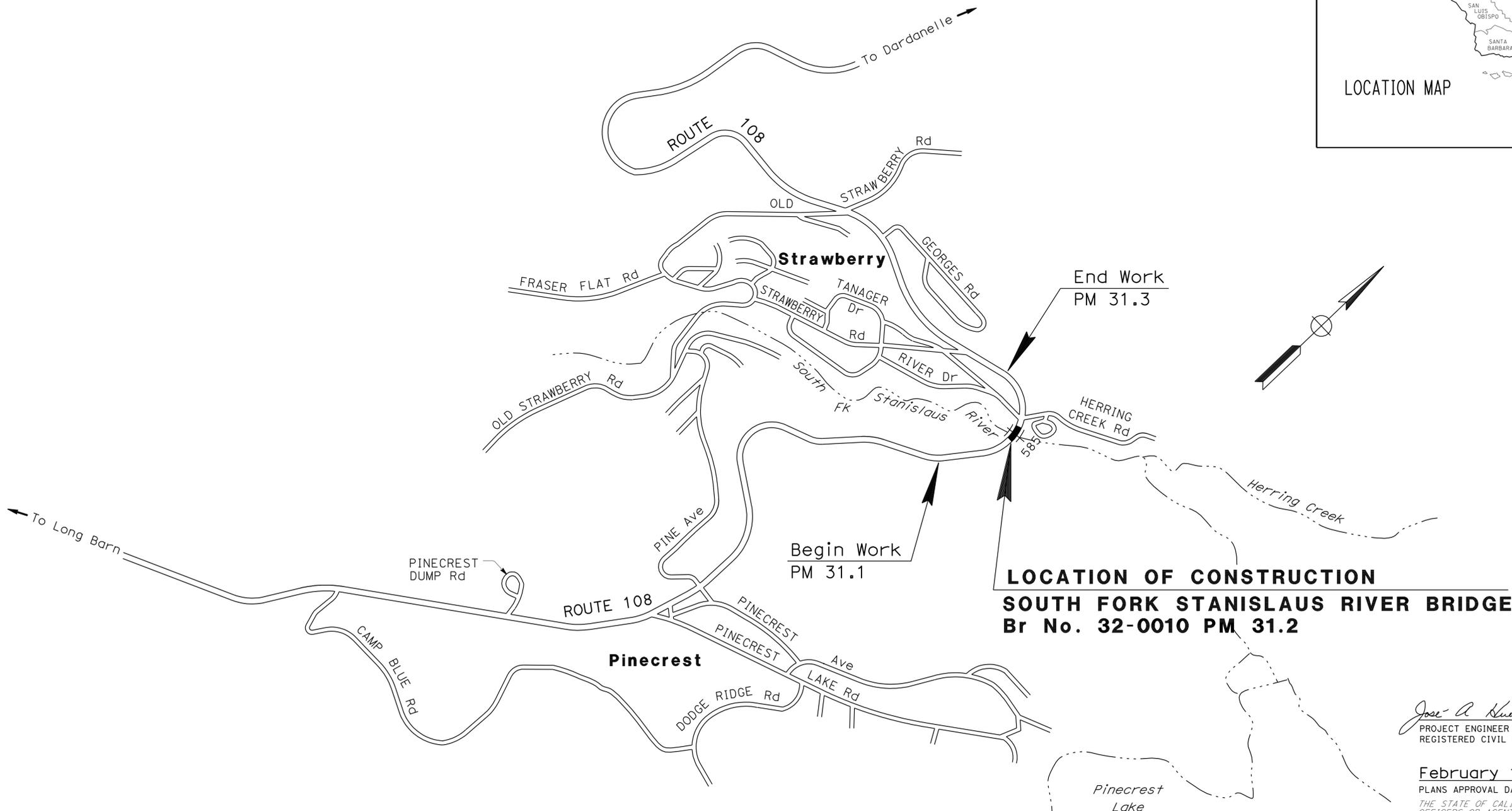
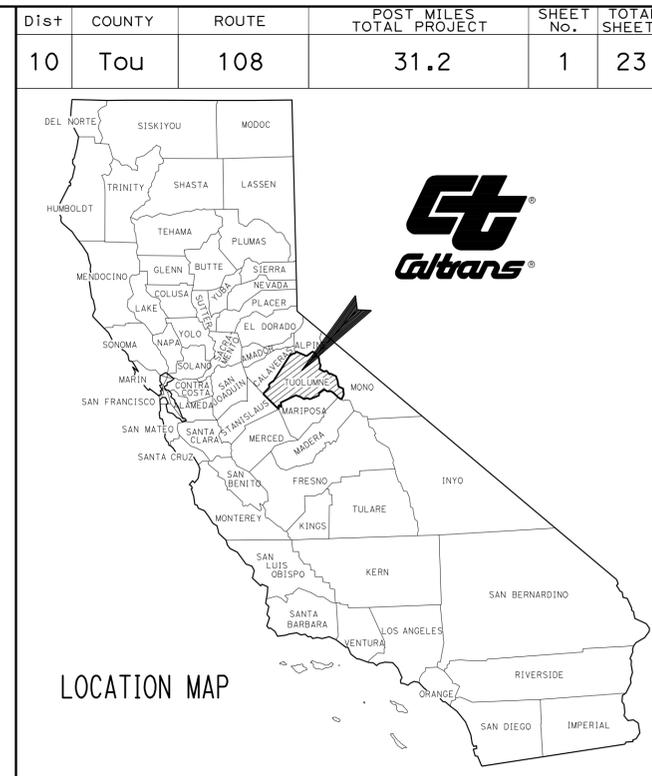
STRUCTURE PLANS

18-23 SOUTH FORK STANISLAUS RIVER Br (Mod)

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN TUOLUMNE COUNTY
NEAR STRAWBERRY
AT SOUTH FORK STANISLAUS RIVER BRIDGE

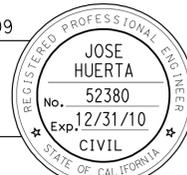
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



NO SCALE

Jose A Huerta 9/8/09
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER

February 1, 2010
 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. **10-ON3704**

PROJECT MANAGER
ARVINDER BAJWA
 DESIGN ENGINEER
PAUL ELLIOTT

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



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	108	31.2	2	23

<i>Jose A Huerta</i> REGISTERED CIVIL ENGINEER	9/8/09 DATE
2-1-10 PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
JOSE HUERTA
No. 52380
Exp. 12/31/10
CIVIL

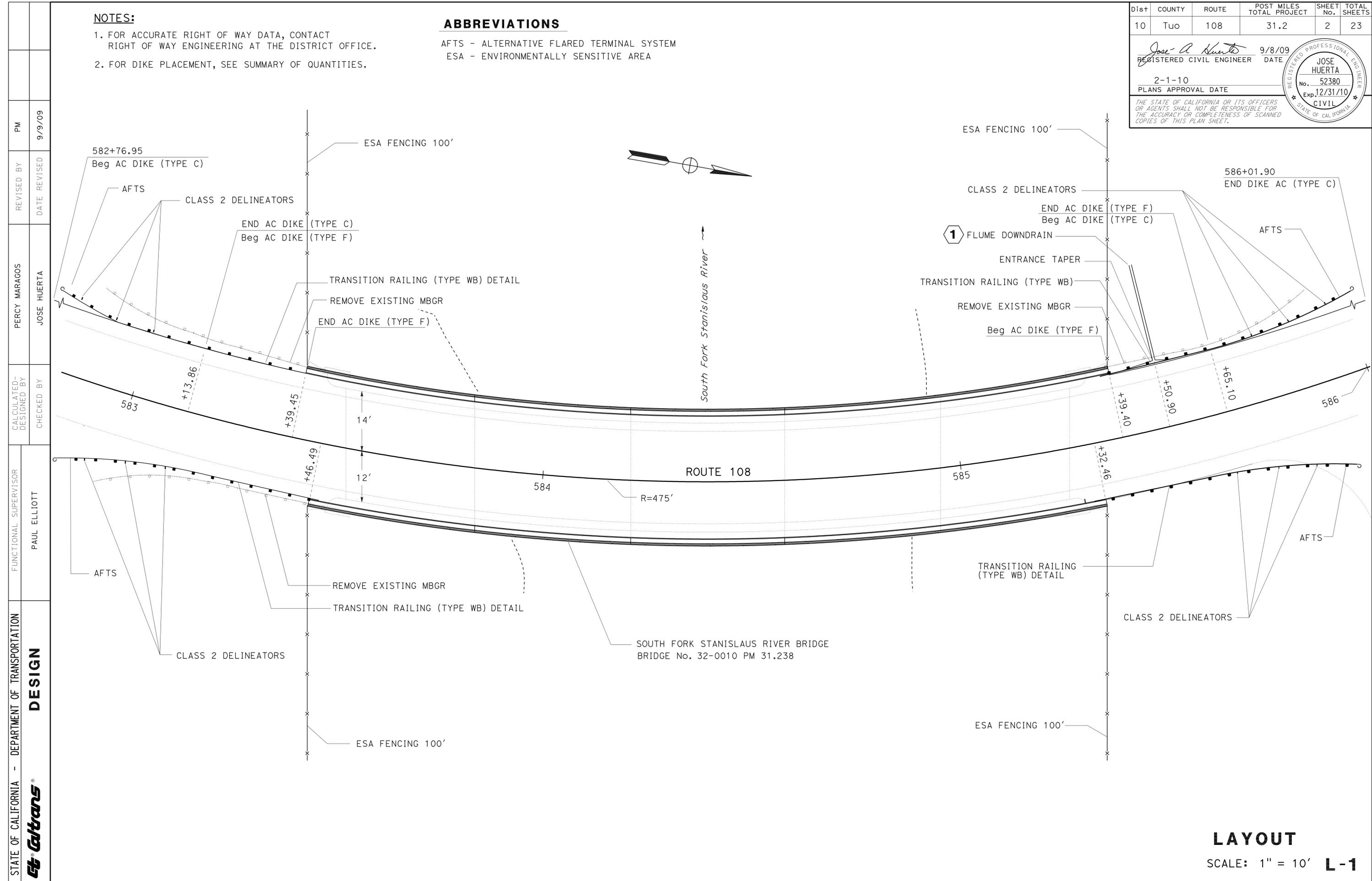
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NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR DIKE PLACEMENT, SEE SUMMARY OF QUANTITIES.

ABBREVIATIONS

- AFTS - ALTERNATIVE FLARED TERMINAL SYSTEM
 ESA - ENVIRONMENTALLY SENSITIVE AREA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
FUNCTIONAL SUPERVISOR PAUL ELLIOTT
CALCULATED-DESIGNED BY CHECKED BY
PERCY MARAGOS JOSE HUERTA
REVISOR DATE
PM 9/9/09

LAYOUT
 SCALE: 1" = 10' **L-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	108	31.2	3	23

9/21-AL1 9/9/09
 REGISTERED CIVIL ENGINEER DATE
 2-1-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MAZIN
 H. AL-ALI
 No. 65523
 Exp. 9/30/11
 CIVIL
 STATE OF CALIFORNIA

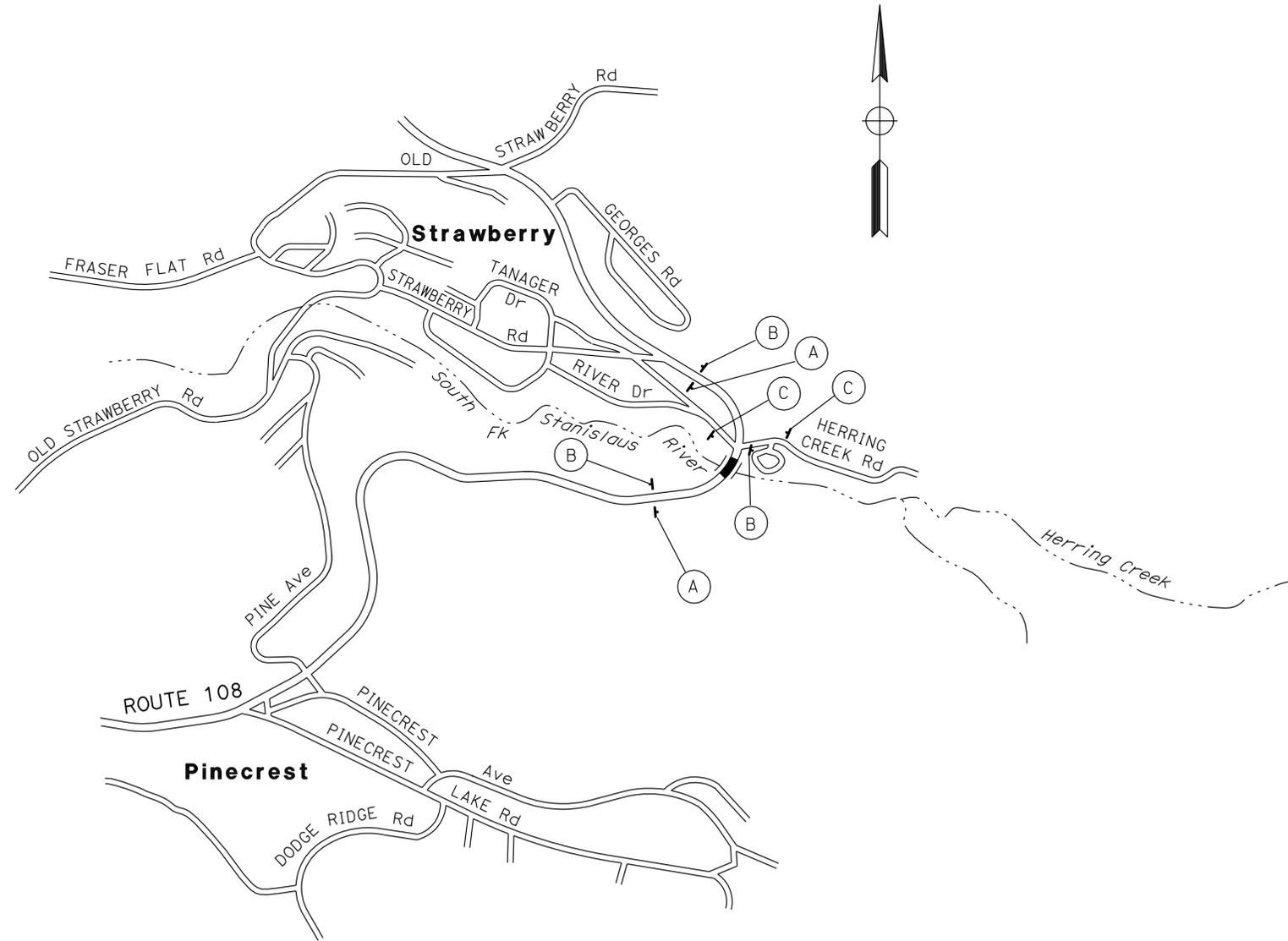
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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
(A)	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	2
(B)	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	3
(C)	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	2

NOTES:

- SIGN LOCATIONS SHOWN ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE THQ-1.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
 CALCULATED/DESIGNED BY: CECILE NGUYEN
 CHECKED BY: MAZIN AL-ALI
 REVISED BY: 9/8/09
 CN: 9/8/09

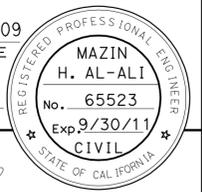
CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

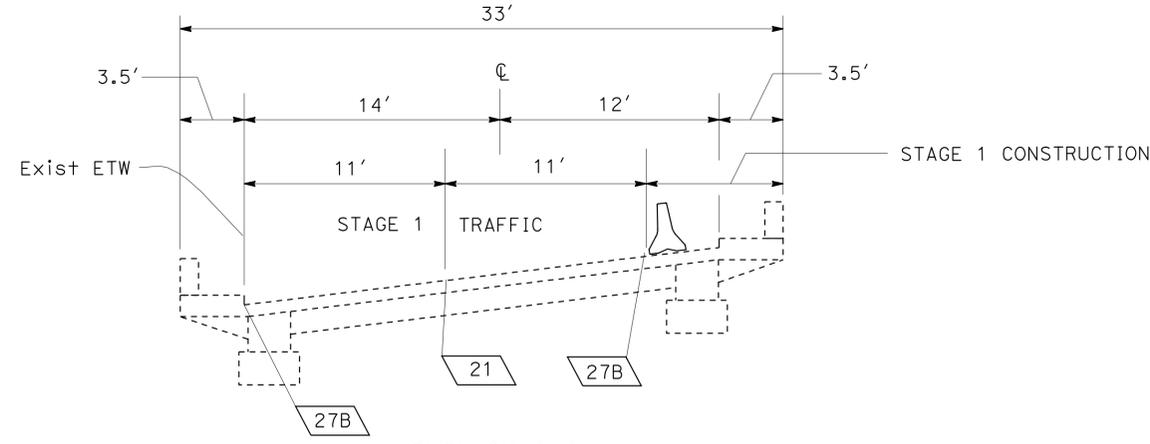
THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	108	31.2	4	23
9/9/09		REGISTERED CIVIL ENGINEER DATE			
2-1-10		PLANS APPROVAL DATE			
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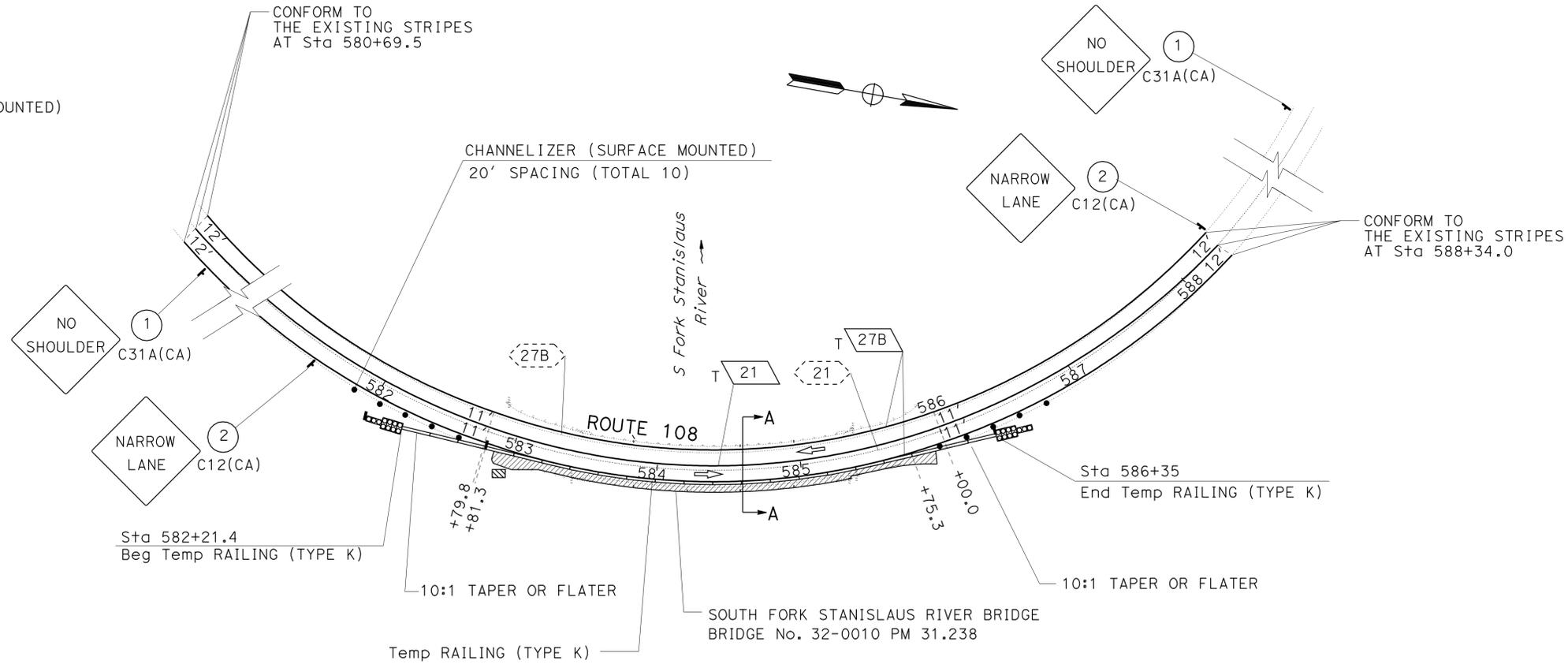


LEGEND

- XX PAINT TRAFFIC STRIPE DETAIL No.
- ← DIRECTION OF TRAFFIC
- TEMPORARY RAILING (TYPE K)
- ▒ TEMPORARY CRASH CUSHION ARRAY 'TS11'
- T TEMPORARY TRAFFIC STRIPE (PAINT)
- - - REMOVE PAINT TRAFFIC STRIPE
- REMOVE MARKER
- ▨ WORK ZONE
- ↑ ROADSIDE SIGN
- ↓ TYPE P MARKER
- CHANNELIZER (SURFACE MOUNTED)
- ② ROADWAY SIGN NUMBER



SECTION A-A
TYPICAL SECTION
NO SCALE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
 CALCULATED/DESIGNED BY: CECILE NGUYEN
 CHECKED BY: MAZIN AL-ALI
 REVISED BY: 9/14/09
 DATE REVISED: 9/14/09
 CN: 9/14/09

TRAFFIC HANDLING PLAN
(STAGE 1)
SCALE: 1" = 50'
TH-1

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.



USERNAME => trmikes1
DGN FILE => a0n370md001.dgn

CU 06385 EA 0N3701

BORDER LAST REVISED 4/11/2008

LAST REVISION: 00-00-00 DATE PLOTTED => 04-FEB-2010 TIME PLOTTED => 13:33

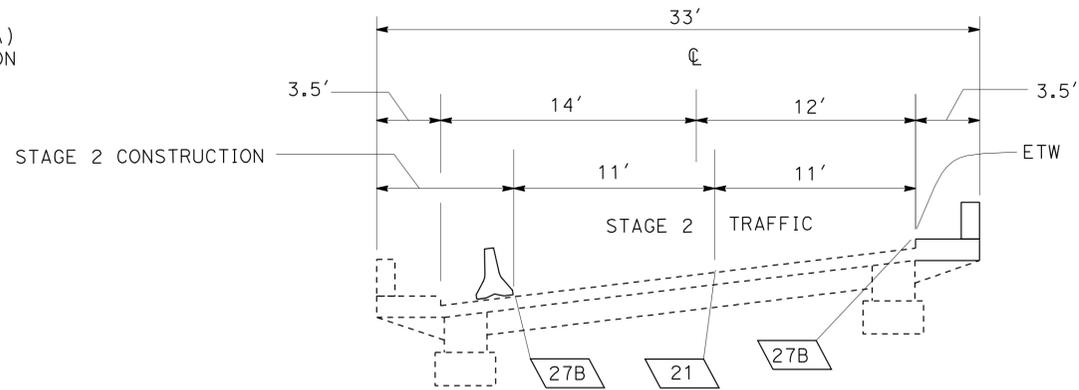
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10	Tuo	108	31.2	5	23

9/14/09	9/9/09
REGISTERED CIVIL ENGINEER	DATE
2-1-10	
PLANS APPROVAL DATE	

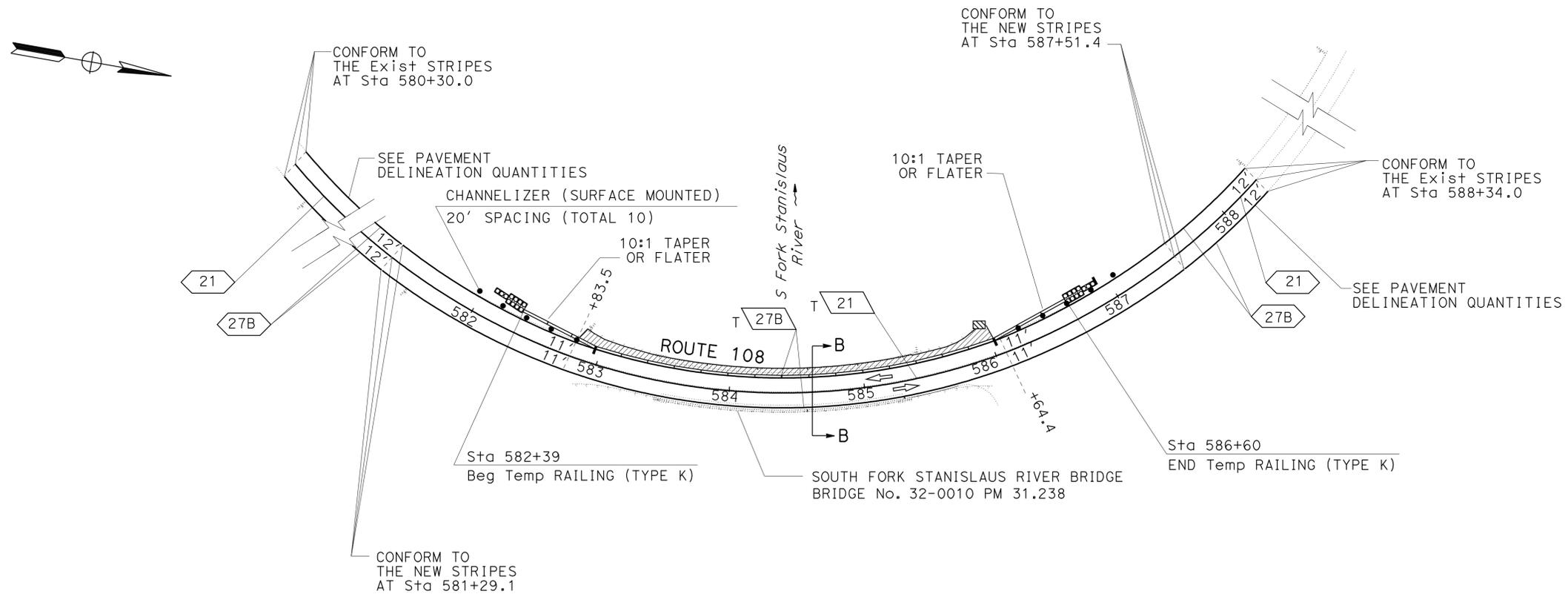
REGISTERED PROFESSIONAL ENGINEER
MAZIN H. AL-ALI
No. 65523
Exp. 9/30/11
CIVIL

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NOTE: CONSTRUCTION AREA SIGNS C31A(CA AND C12(CA) FROM STAGE 1 ARE TO REMAIN FOR THE DURATION OF STAGE 2.



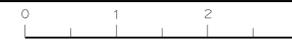
SECTION B-B
TYPICAL SECTION
NO SCALE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR
MOHAMMED OATAMI
CALCULATED-DESIGNED BY
CHECKED BY
CECILE NGUYEN
MAZIN AL-ALI
REVISOR
DATE
9/14/09
CN

TRAFFIC HANDLING PLAN
(STAGE 2)
SCALE: 1" = 50' **TH-2**

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	108	31.2	6	23

MAZIN AL-ALI 9/9/09
 REGISTERED CIVIL ENGINEER DATE
 2-1-10
 PLANS APPROVAL DATE
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TRAFFIC HANDLING (CONSTRUCTION AREA SIGN)

SHEET No.	SIGN No.	SIGN CODE	SIGN MESSAGE	SIGN PANEL	No. OF POST AND SIZE	No. OF SIGN
						EA
TH-1	①	C31A(CA)	NO SHOULDER	48" x 48"	1- 6" x 6"	2
	②	C12 (CA)	NARROW LANE	48" x 48"	1- 6" x 6"	2
TOTAL						4

NOTES:

- SIGN LOCATION SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
- FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE CS-1.

TRAFFIC HANDLING QUANTITIES

SHEET No.	LOCATION		DETAIL No.	TEMPORARY TRAFFIC STRIPE (PAINT)	REMOVE YELLOW PAINT TRAFFIC STRIPE (HAZAROUS WASTE)	REMOVE PAINTED TRAFFIC STRIPE	REMOVE MARKER	TEMPORARY RAILING (TYPE K)	CHANNELIZER (SURFACE MOUNTED)
	FROM	TO							
	LF	EA							
TH-1	580+69.5	588+34	27B	1529					
	580+69.5	588+34	21	764.5	1529		1	408	10
TH-2	581+29.1	587+51.4	27B	1244.6					
	581+29.1	587+51.4	21	622.3			1	420	10
TOTAL				4160.4	1529	1529	2	828	20

TEMPORARY CRASH CUSHION

SHEET No.	STATION LIMITS	TEMPORARY CRASH CUSHION MODULE	TYPE P MARKER (N)
		EA	EA
TH-1	582+21.4	11	1
	586+35	11	
TH-2	586+60	11	1
	582+39	11	
TOTAL		44	

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

TRAFFIC HANDLING QUANTITIES THQ-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	108	31.2	7	23
9/2-10		9/9/09		REGISTERED CIVIL ENGINEER DATE	
2-1-10		PLANS APPROVAL DATE			
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

LEGEND

-  PAINT TRAFFIC STRIPE DETAIL No.
-  ROADSIDE SIGN NUMBER
-  RESET ROADSIDE SIGN
-  OBJECT MARKER TYPE L (OM2-2V)

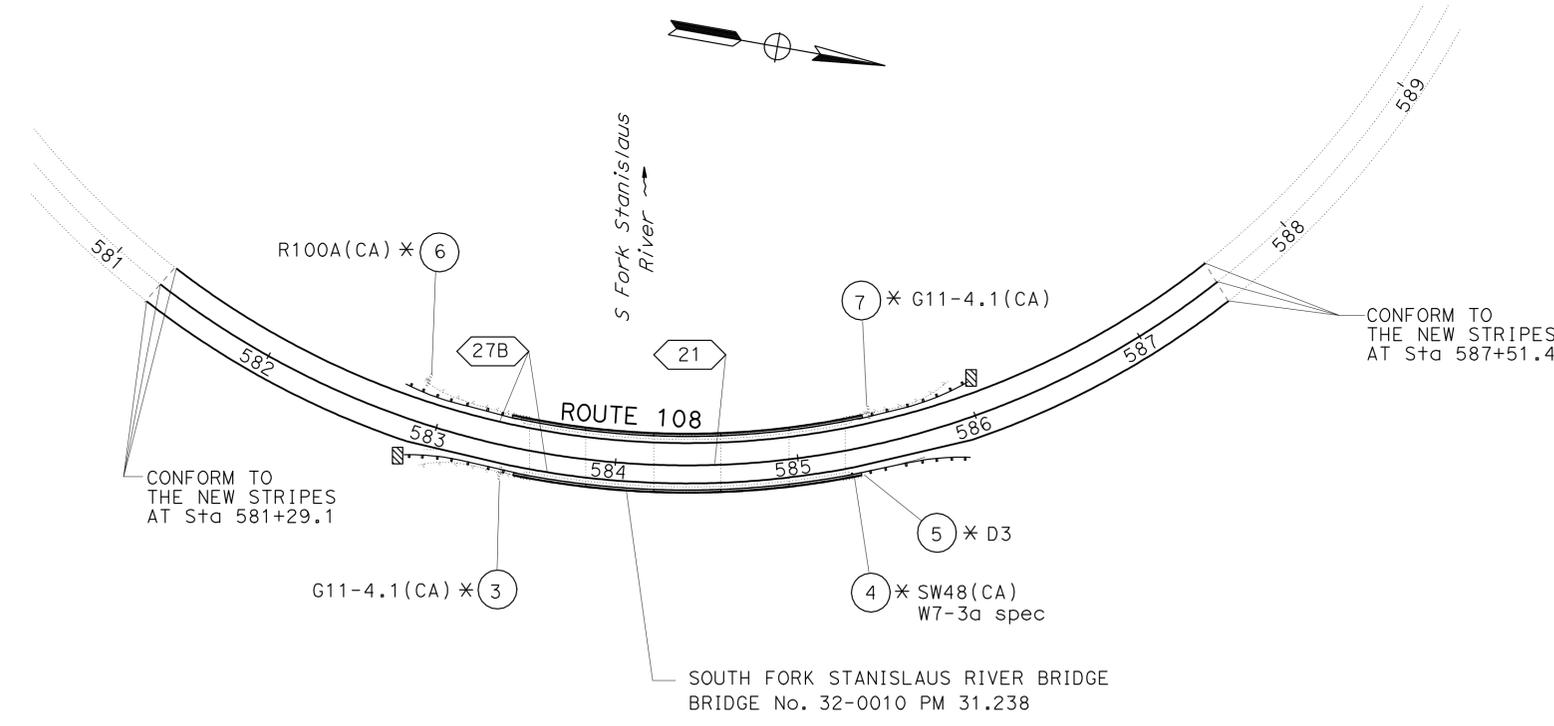
ROADSIDE SIGNS

SIGN No.	SIGN CODE	SIGN MESSAGE	RESET ROADSIDE SIGN
			EA
3	G11-4.1(CA)	BRIDGE NAME	1
4	SW48(CA) W7-3a	TRACTOR-SEMI OVER (X FEET) KINGPIN TO REAR AXLE NOT ADVISED NEXT 16 MILES	1
5	D3	STREET NAME	1
6	R100A(CA)	STREET NAME	1
7	G11-4.1(CA)	BRIDGE NAME	1
TOTAL			5

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION		DETAIL No.	PAINT TRAFFIC STRIPE (2-COAT)	OBJECT MARKER (TYPE L)
	FROM	TO		LF	
PD-1	581+29.1	587+51.4	27B	1244.6	2
	581+29.1	587+51.4	21	622.3	
TH-2	580+30	581+29.1	27B	198.2	
	580+30	581+29.1	21	99.1	
	587+51.4	588+34	27B	165.2	
	587+51.4	588+34	21	82.6	
TOTAL				2412	2



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MOHAMMED QATANI
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 CEVILLE NGUYEN
 MAZIM AL-ALI
 REVISED BY: [Blank]
 DATE REVISED: 9/14/09
 CN: 9/14/09

PAVEMENT DELINEATION PLAN, SIGN PLAN AND QUANTITIES

SCALE: 1" = 50'

PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	108	31.2	8	23

Jose A Huerta 9/8/09
 REGISTERED CIVIL ENGINEER DATE
 2-1-10
 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.

DRAINAGE QUANTITIES

DRAINAGE SYSTEM No.	REMOVE DRAINAGE SYSTEM	FLUME DOWNDRAIN			DESCRIPTION	STATION
		LF	SQYD	EA		
1	1				REMOVE EXISTING TAPERED INLET AND FLUME DOWNDRAIN	STA 585+50.90 LEFT SIDE
		23			FLUME DOWNDRAIN	STA 585+50.90 LEFT SIDE
			0.94		ENTRANCE TAPER	STA 585+50.90 LEFT SIDE
				1	CABLE ANCHOR ASSEMBLY	STA 585+50.90 LEFT SIDE
TOTAL	1	23	0.94	1		

TEMPORARY FENCE (TYPE ESA)

FT
400

NOTE: SEE LAYOUT SHEET FOR LOCATION OF ESA FENCING

METAL BEAM GUARD RAILING SUMMARY

LOCATION (STA)	REMOVE MBGR	TRANSITION RAILING (TYPE WB)	ALTERNATIVE FLARED TERMINAL SYSTEM	GUARD RAIL LAYOUT (N)	DELINEATORS (CLASS 2)	PLACE HOT MIX ASPHALT DIKE		HMA (TYPE B)
						TYPE C	TYPE F	
	LF	EA	EA	TYPE	EA	LF	LF	TON
582+76.95 TO 583+39.45 LEFT SIDE	66	1	1	12BB	3	62.5	25.59	0.82
582+84.49 TO 583+46.49 RIGHT SIDE	43	1	1	12B	3			
585+32.46 TO 585+94.46 RIGHT SIDE	64	1	1	12BB	3			
585+39.40 TO 586+01.90 LEFT SIDE	66	1	1	12B	3	62.5	25.70	0.82
FLUME ENTRANCE *								0.10
TOTAL	239	4	4		12	125	51.29	1.74

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
 (*) SEE DRAINAGE QUANTITIES TABLE

SUMMARY OF QUANTITIES Q-1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Tuo	108	31.2	9	23

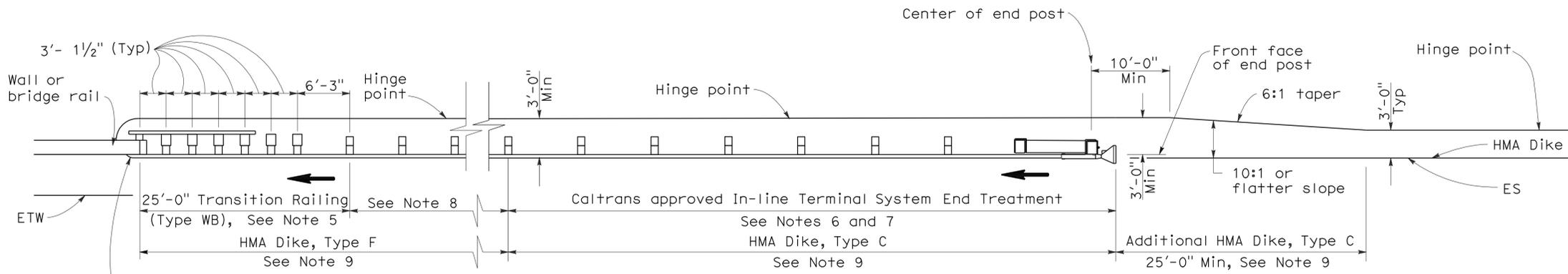
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

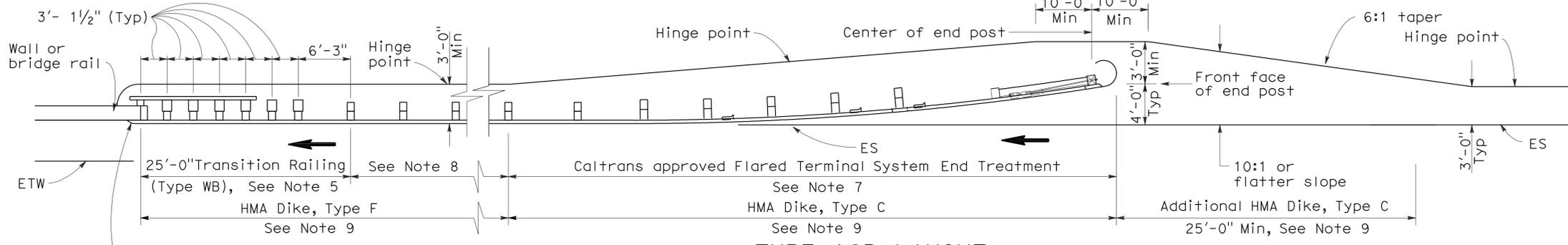
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To accompany plans dated 2-1-10



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.

REVISED STANDARD PLAN RSP A77F1

2006 REVISED STANDARD PLAN RSP A77F1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Tuo	108	31.2	10	23

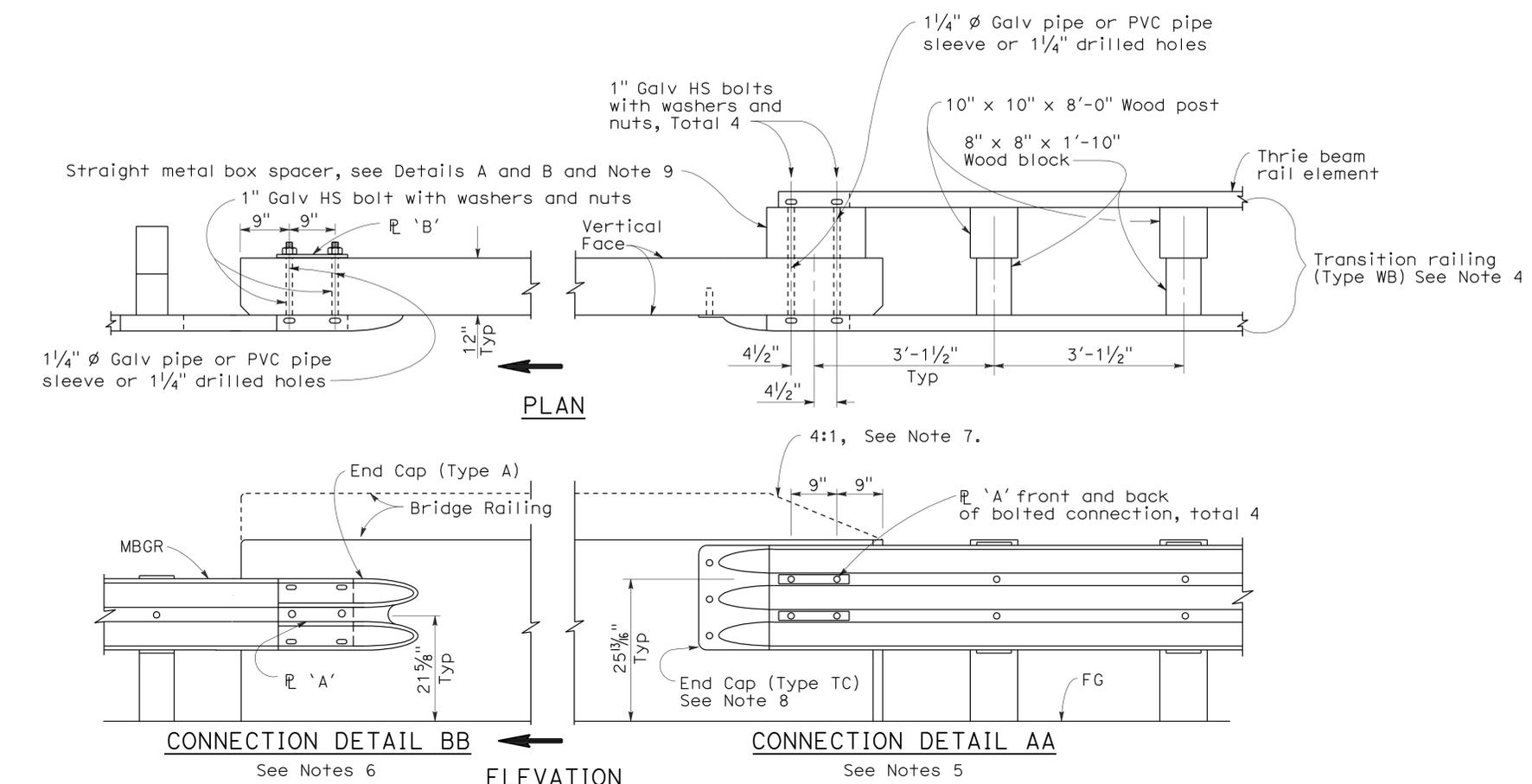
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

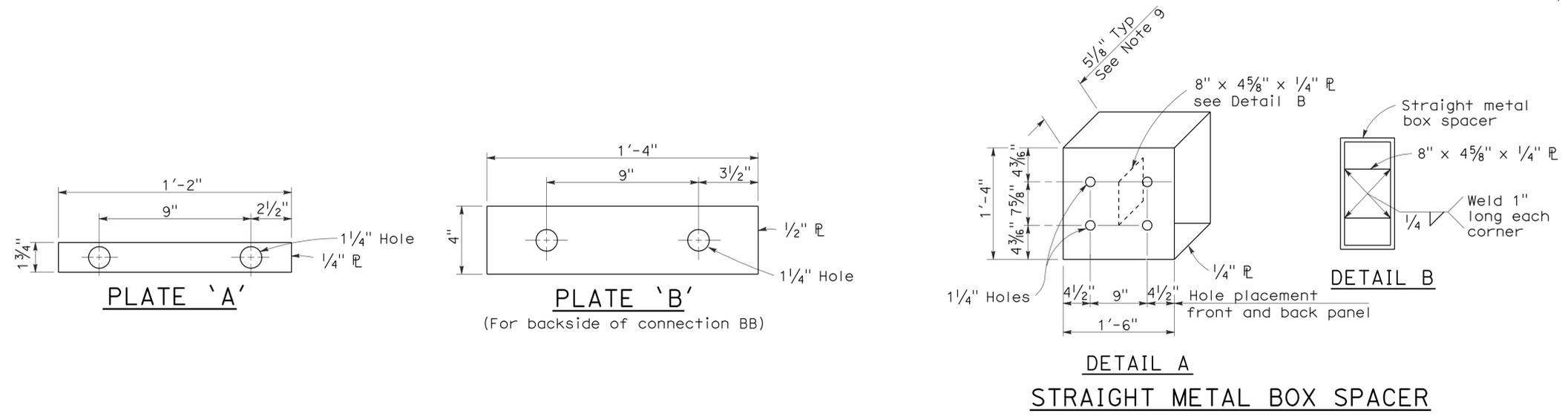
To accompany plans dated 2-1-10



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.

GUARD RAILING CONNECTION TO BRIDGE RAILING WITHOUT SIDEWALK



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
METAL BEAM GUARD RAILING CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS DETAILS No.1

NO SCALE
RSP A77J1 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77J1 DATED MAY 1, 2006 - PAGE 72 OF THE STANDARD PLANS BOOK DATED MAY 2006.
REVISED STANDARD PLAN RSP A77J1

2006 REVISED STANDARD PLAN RSP A77J1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Tuo	108	31.2	11	23

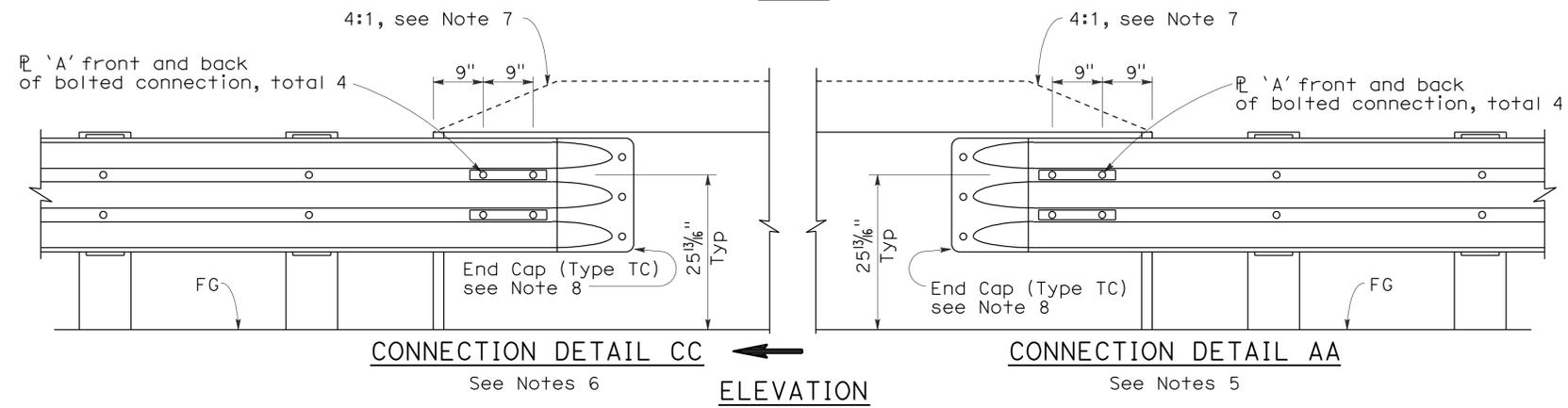
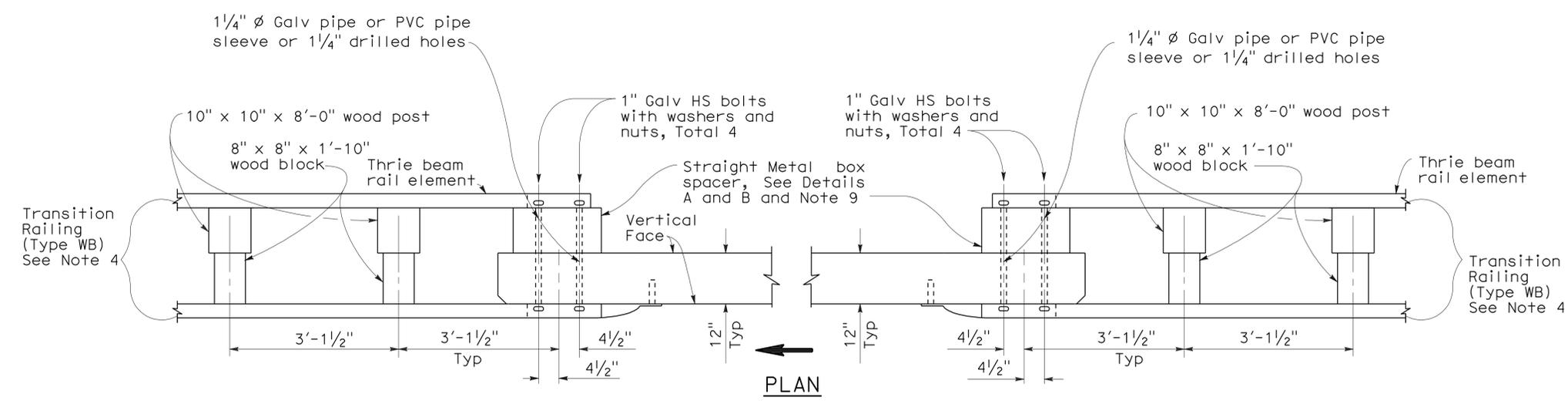
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

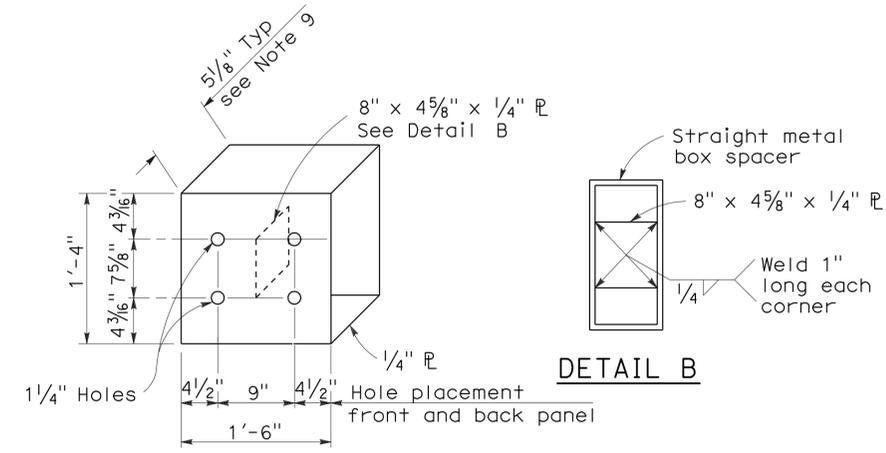
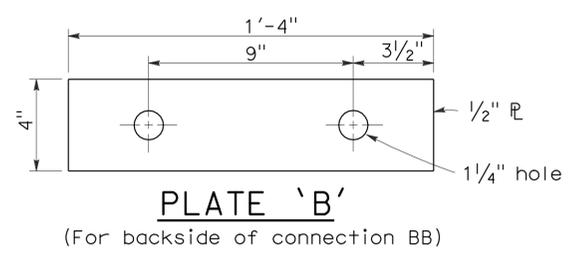
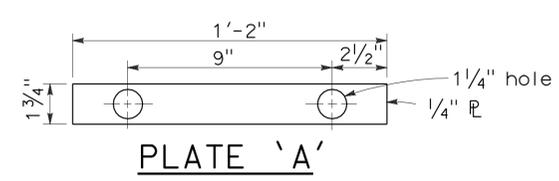
To accompany plans dated 2-1-10



GUARD RAILING CONNECTION TO BRIDGE RAILING WITHOUT SIDEWALK

NOTES:

1. See Revised Standard Plan RSP A77J1 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 →.
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 CC, see Layout Types 12AA and 12BB on Standard Plan A77F4 and Layout Type 12CC 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 and connection Detail CC, taper the top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam railing.
8. For details of End Cap (Type TC), see Standard Plans A77J4.
9. See Standard Plans A77J4 for additional details regarding depth dimension for straight metal box spacer.



**DETAIL A
STRAIGHT METAL BOX SPACER**

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
CONNECTIONS TO BRIDGE RAILINGS
WITHOUT SIDEWALKS DETAILS No.2**

NO SCALE
RSP A77J2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77J2
DATED MAY 1, 2006 - PAGE 73 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77J2

2006 REVISED STANDARD PLAN RSP A77J2

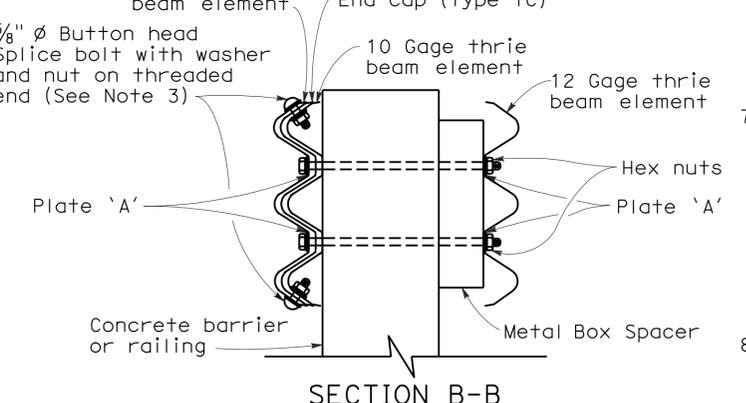
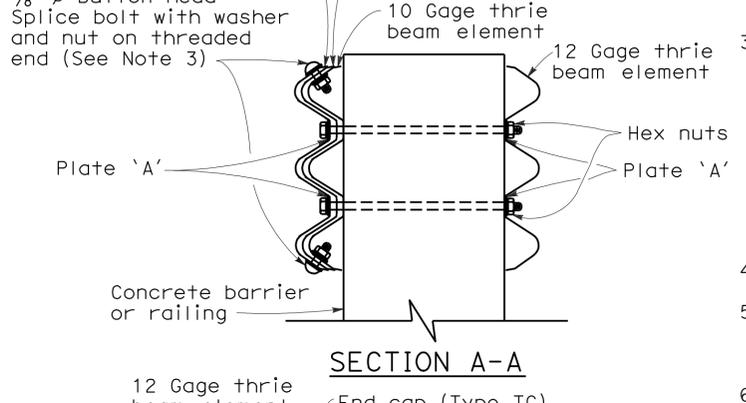
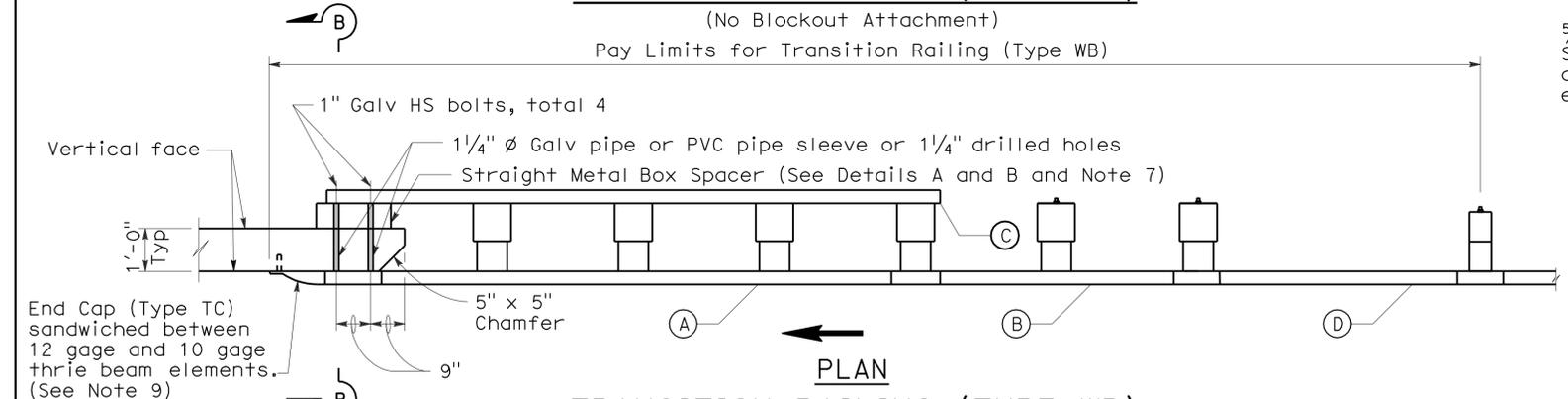
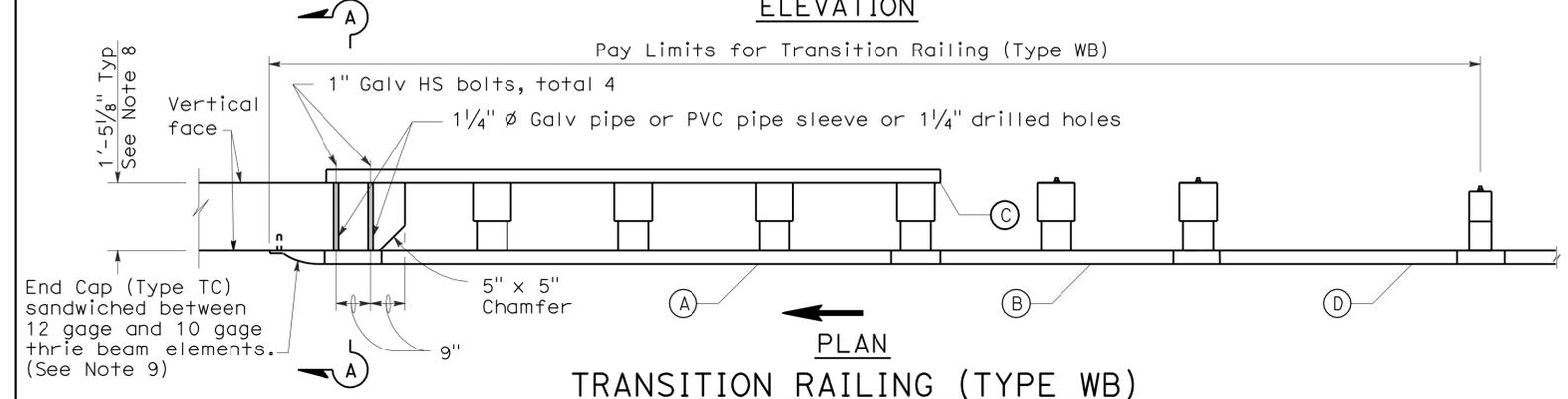
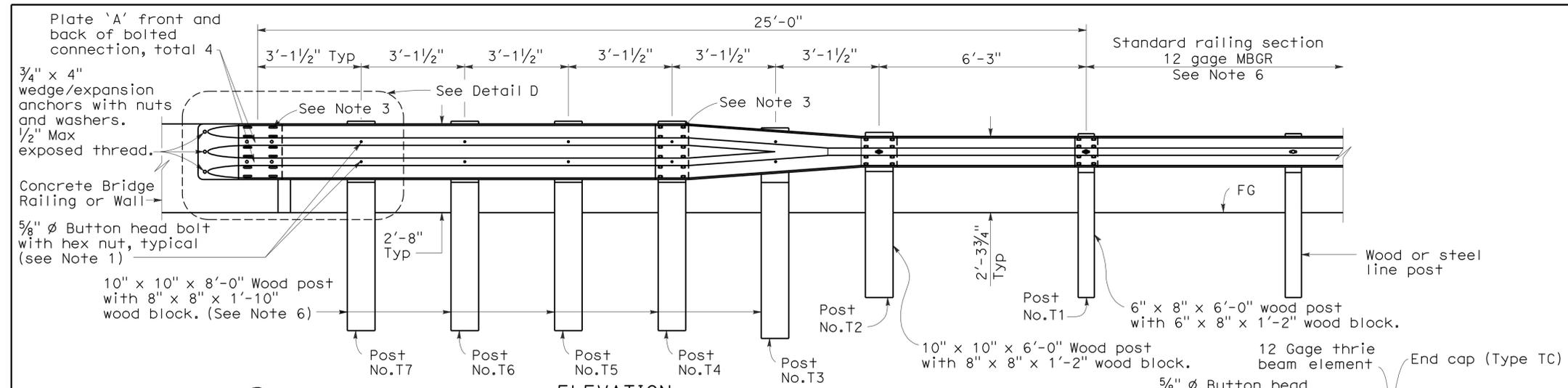
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Tuo	108	31.2	12	23

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 5, 2009
PLANS APPROVAL DATE

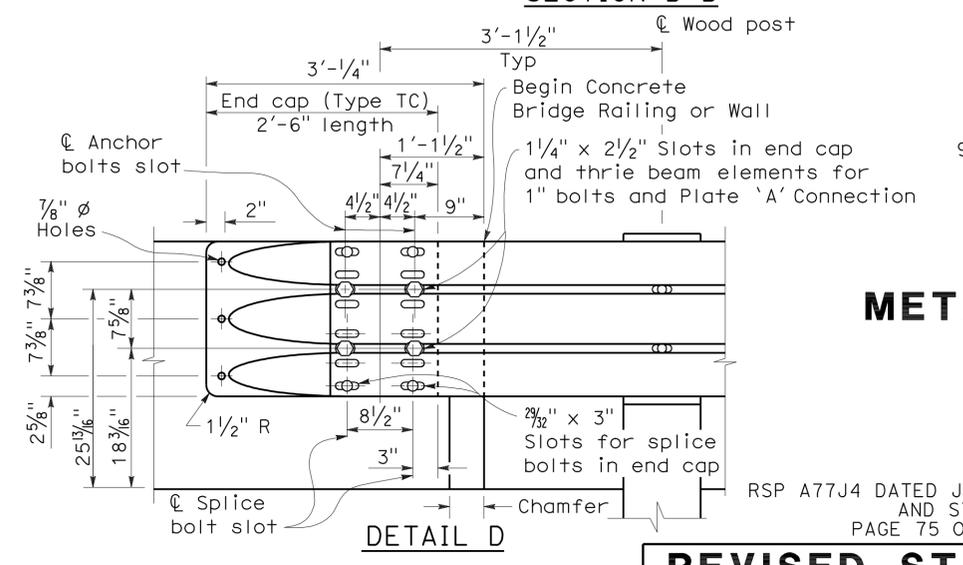
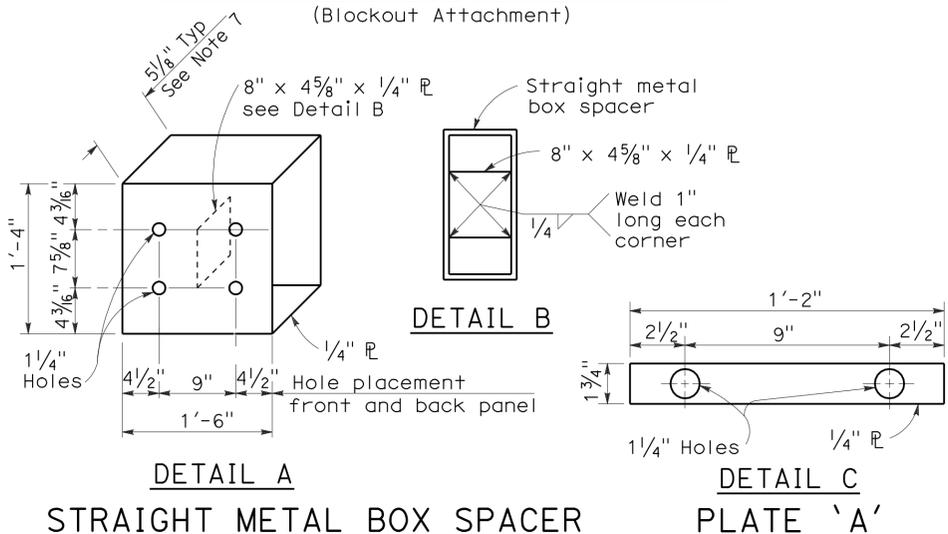
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REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA



- NOTES:** To accompany plans dated 2-1-10
- Use 5/8 " ϕ 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 29/32 " x 1 1/8 " slot size. Interior splice bolt holes at these locations may be increased up to 1 1/4 " ϕ . 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 \rightarrow .
 - The top elevation of Post Nos.T2 through 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 or an approved Caltrans end treatment attached to Post No.T1.
 - The depth of the metal box spacer varies from the 5 1/8 " 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.4 through No.7 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.

- 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



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

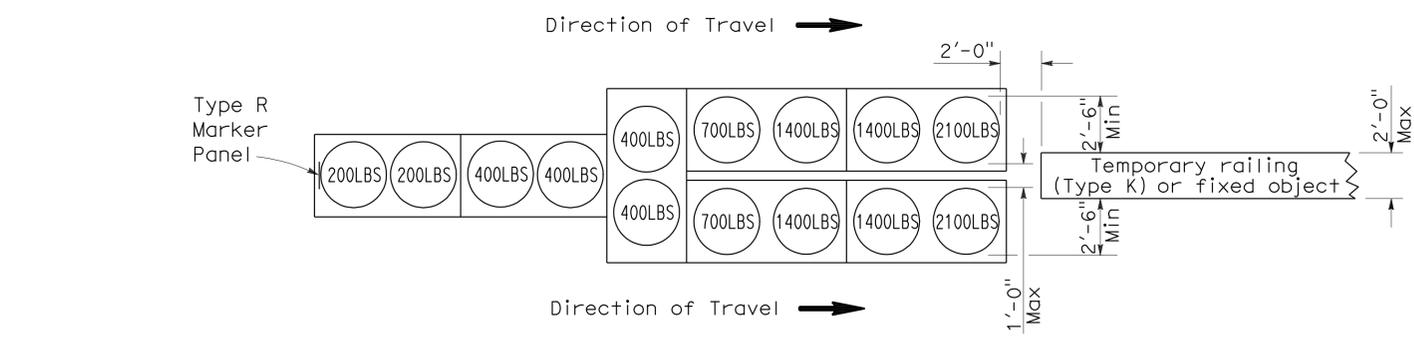
METAL BEAM GUARD RAILING TRANSITION RAILING (TYPE WB)

NO SCALE

RSP A77J4 DATED JUNE 5, 2009 SUPERSEDES RSP A77J4 DATED JUNE 6, 2008 AND STANDARD PLAN A77J4 DATED MAY 1, 2006 - PAGE 75 OF THE STANDARD PLANS BOOK DATED MAY 2006.

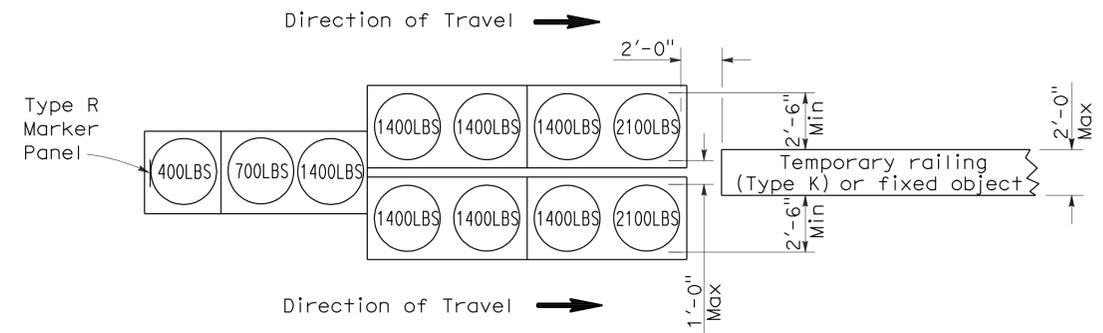
2006 REVISED STANDARD PLAN RSP A77J4

To accompany plans dated 2-1-10



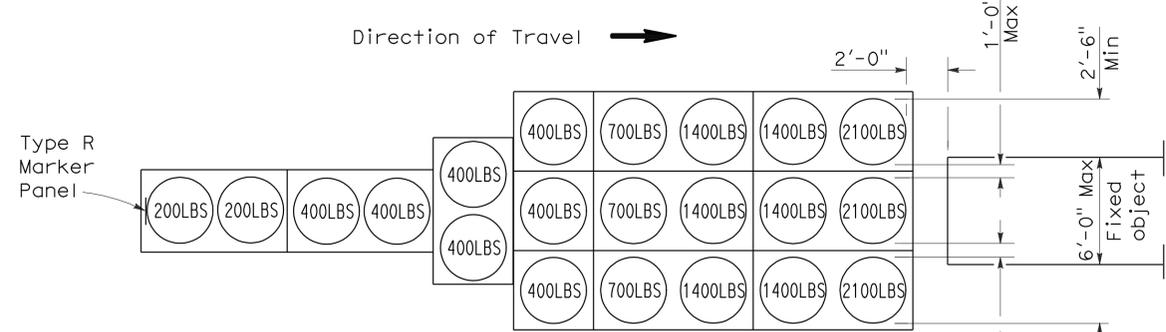
ARRAY 'TU14'

Approach speed 45 mph or more



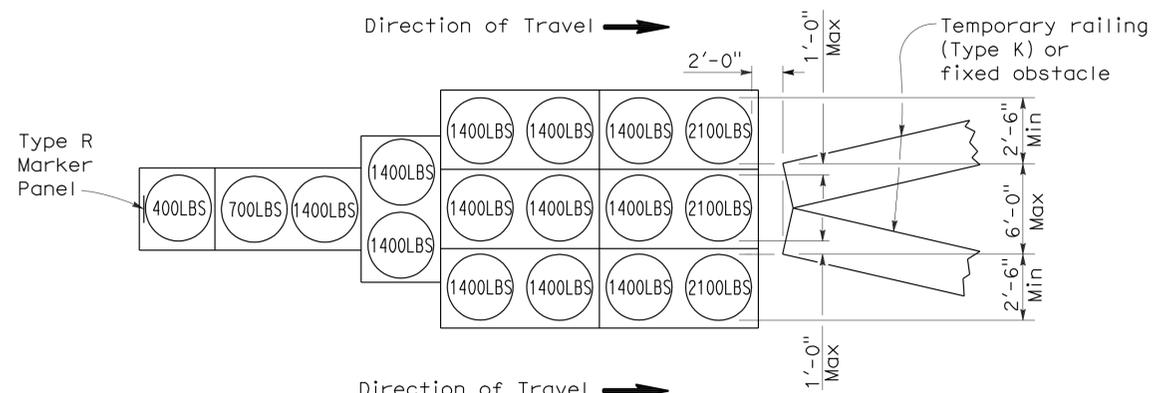
ARRAY 'TU11'

Approach speed less than 45 mph



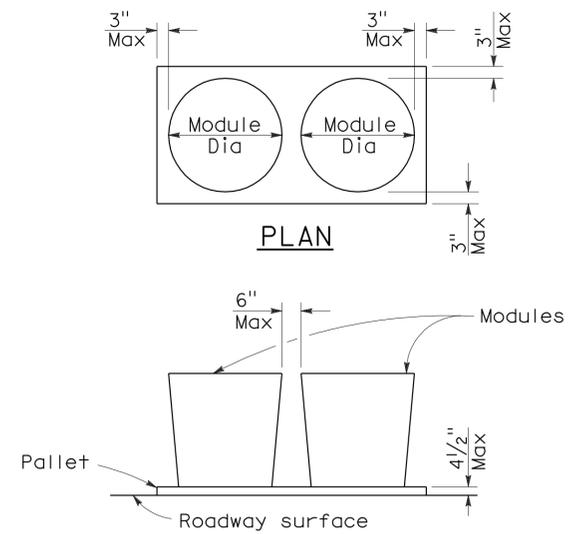
ARRAY 'TU21'

Approach speed 45 mph or more



ARRAY 'TU17'

Approach speed less than 45 mph



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
10	Tuo	108	31.2	14	23

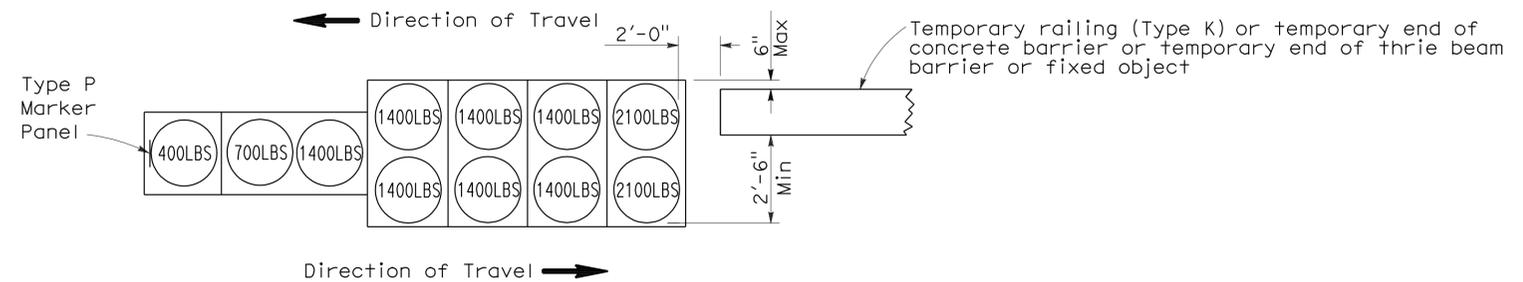
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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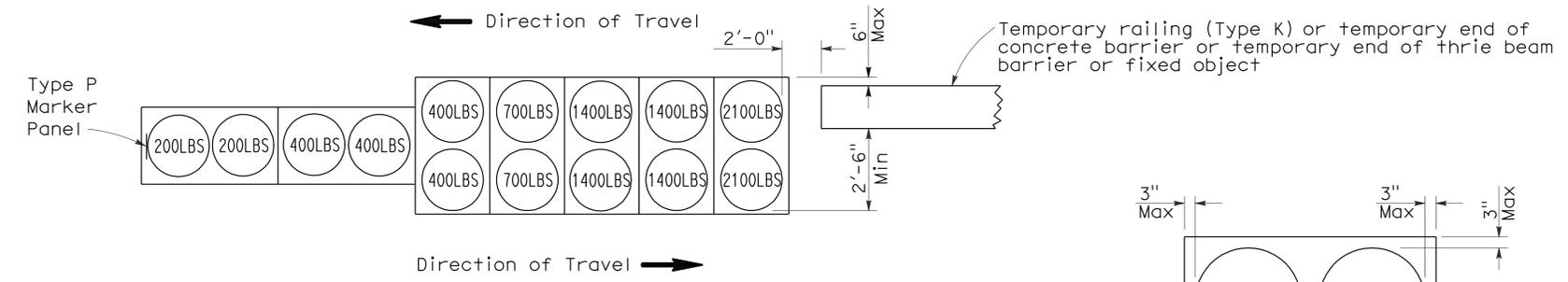
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 2-1-10



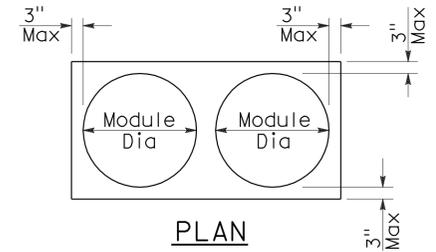
ARRAY 'TB11'

Approach speed less than 45 mph

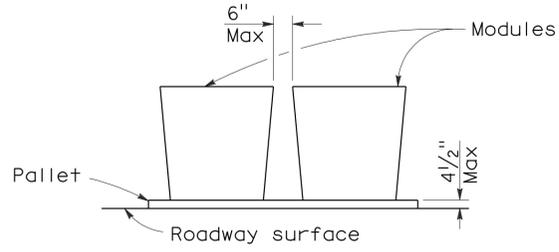


ARRAY 'TB14'

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
10	Tuo	108	31.2	15	23

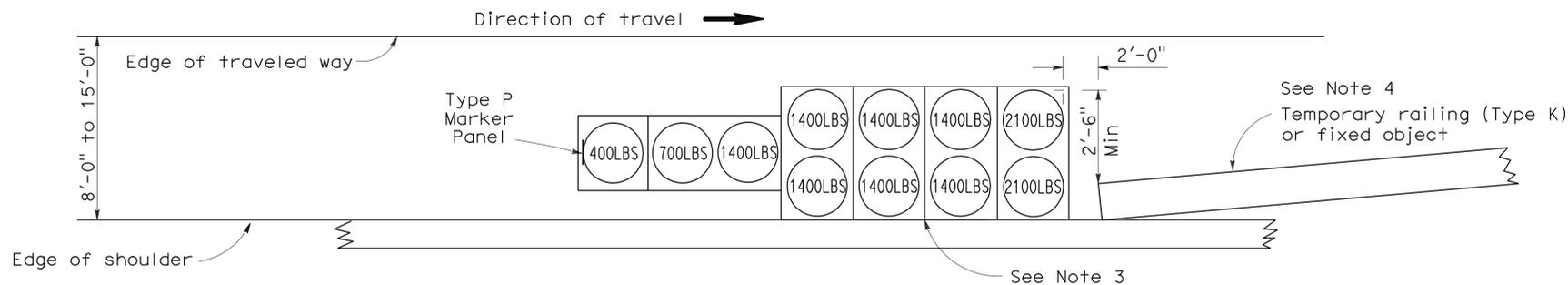
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

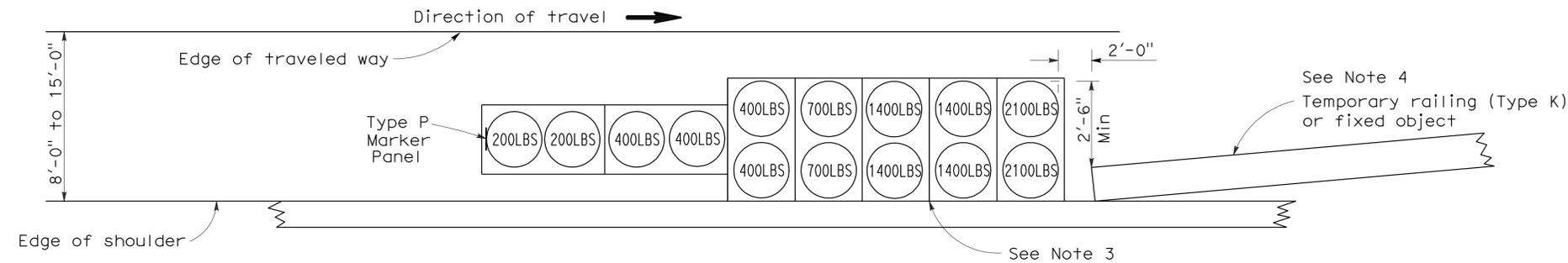
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 2-1-10



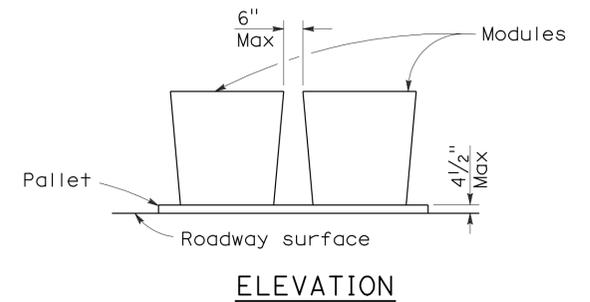
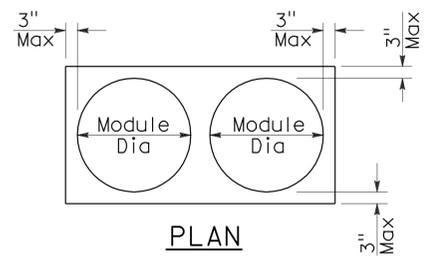
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

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.



CRASH CUSHION PALLET DETAIL
See Note 11

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

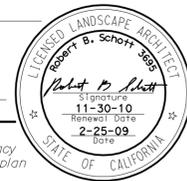
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

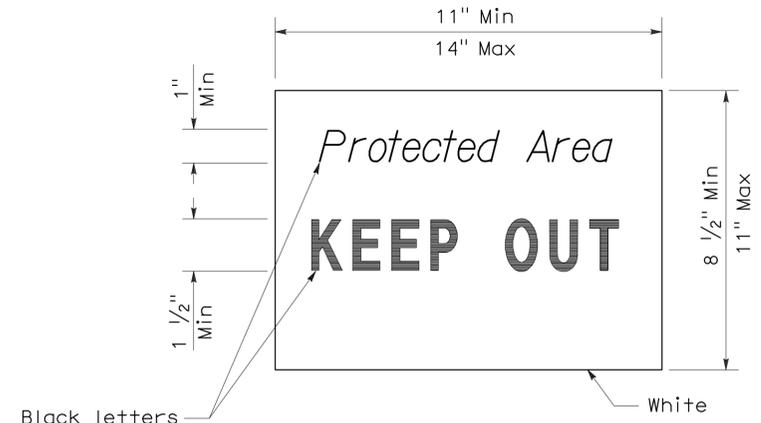
2006 REVISED STANDARD PLAN RSP T2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Tuo	108	31.2	16	23

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 PLANS APPROVAL DATE
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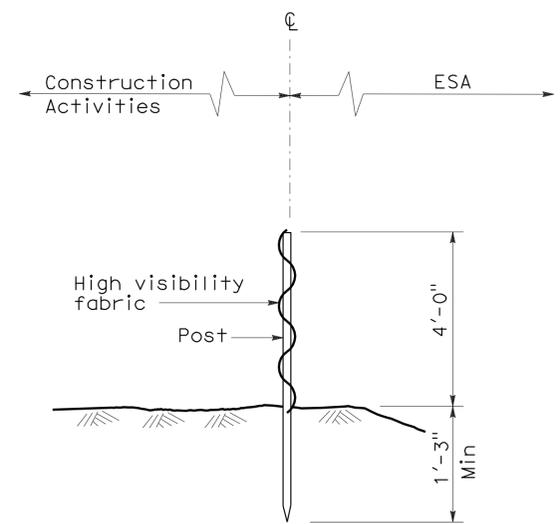
To accompany plans dated 2-1-10



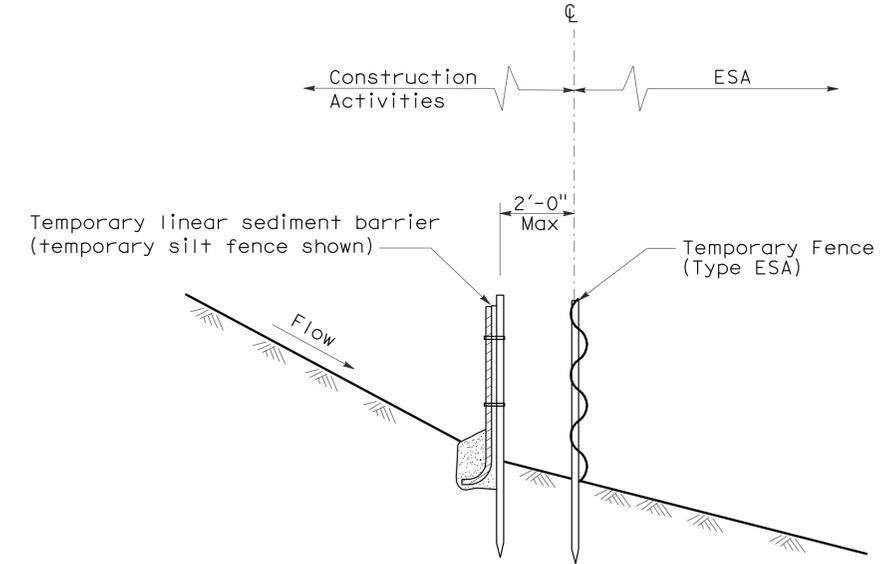
SIGN DETAIL

NOTE:

1. Temporary silt fence and temporary straw bale barrier shown for reference purposes only.

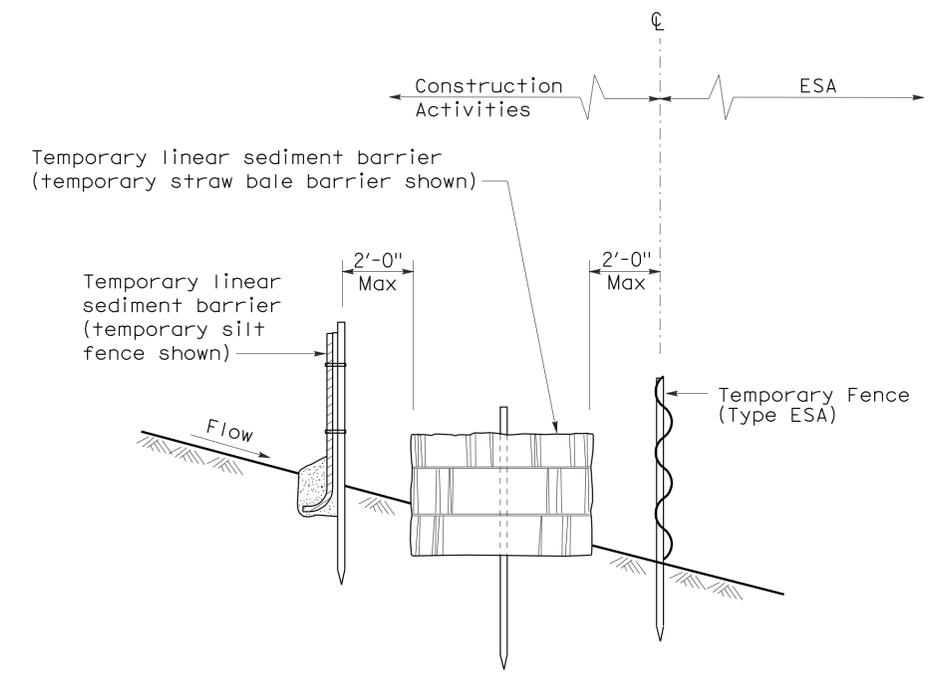


SECTION
TEMPORARY FENCE (TYPE ESA)



SECTION
PLACEMENT DETAIL
FOR TEMPORARY LINEAR SEDIMENT BARRIER
USED WITH TEMPORARY
FENCE (TYPE ESA)

(See Note 1)



SECTION
PLACEMENT DETAIL
FOR TEMPORARY SILT FENCE
AND TEMPORARY STRAW BALE BARRIER
USED WITH TEMPORARY FENCE (TYPE ESA)

(See Note 1)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS
[TEMPORARY FENCE (TYPE ESA)]

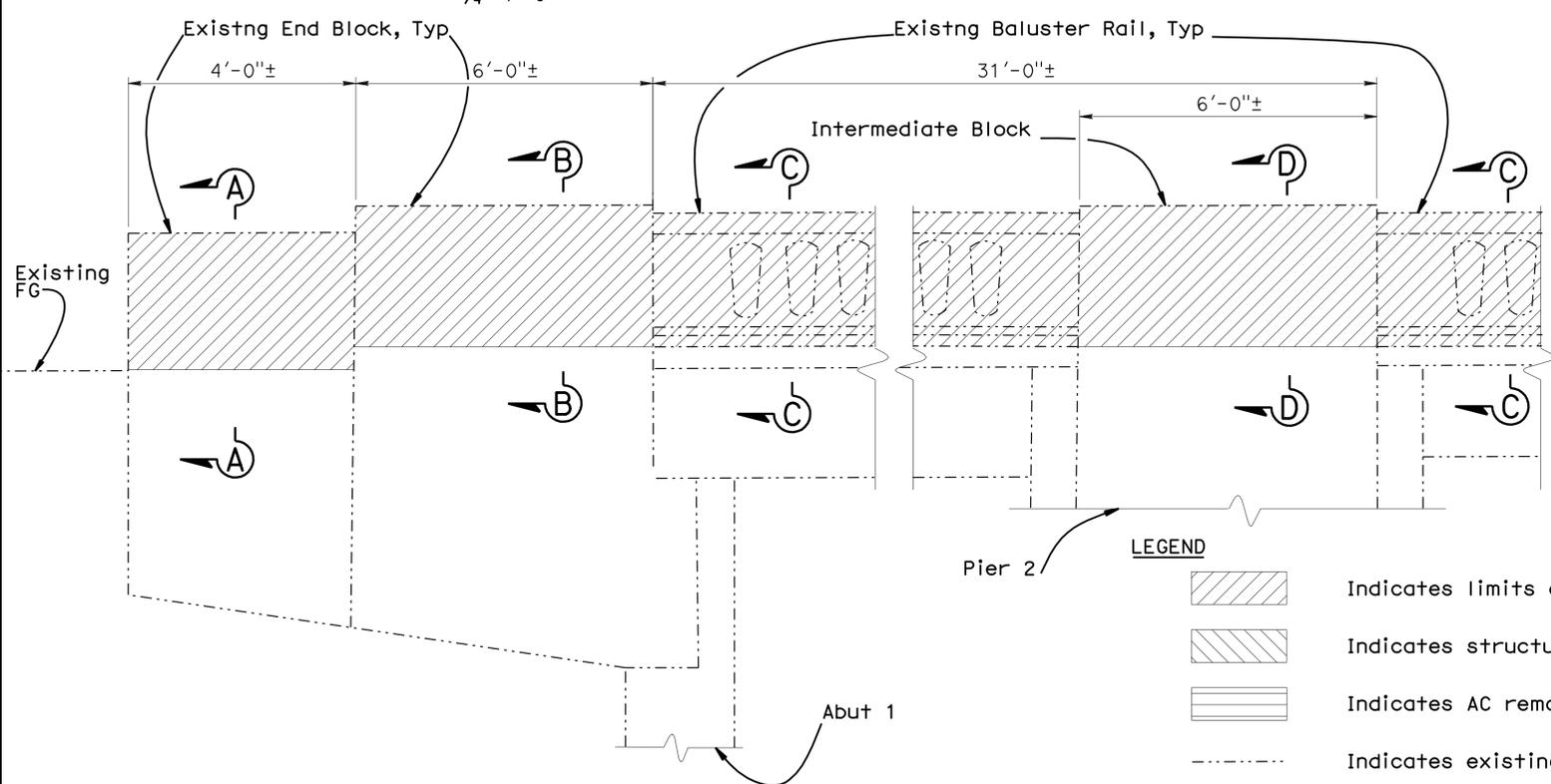
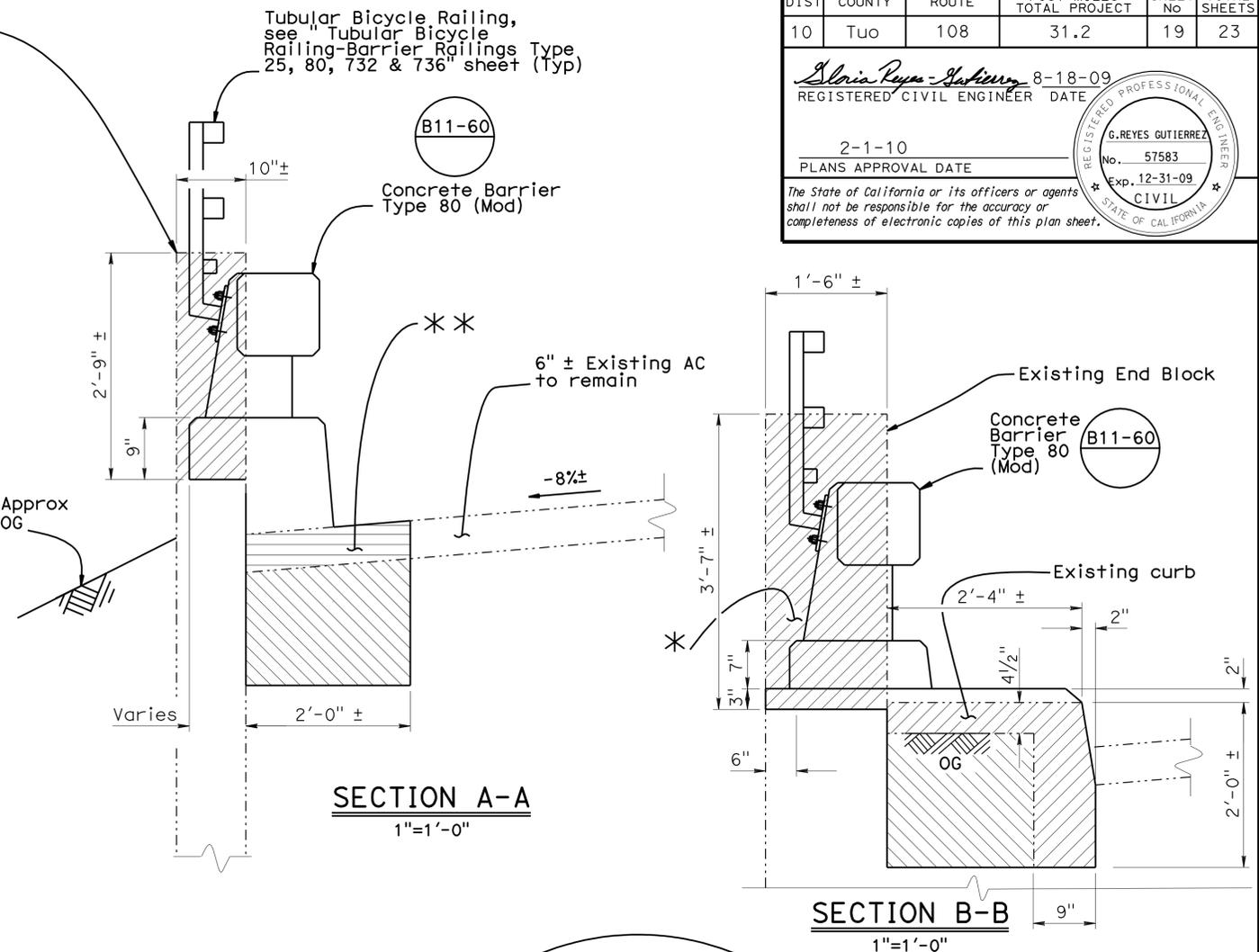
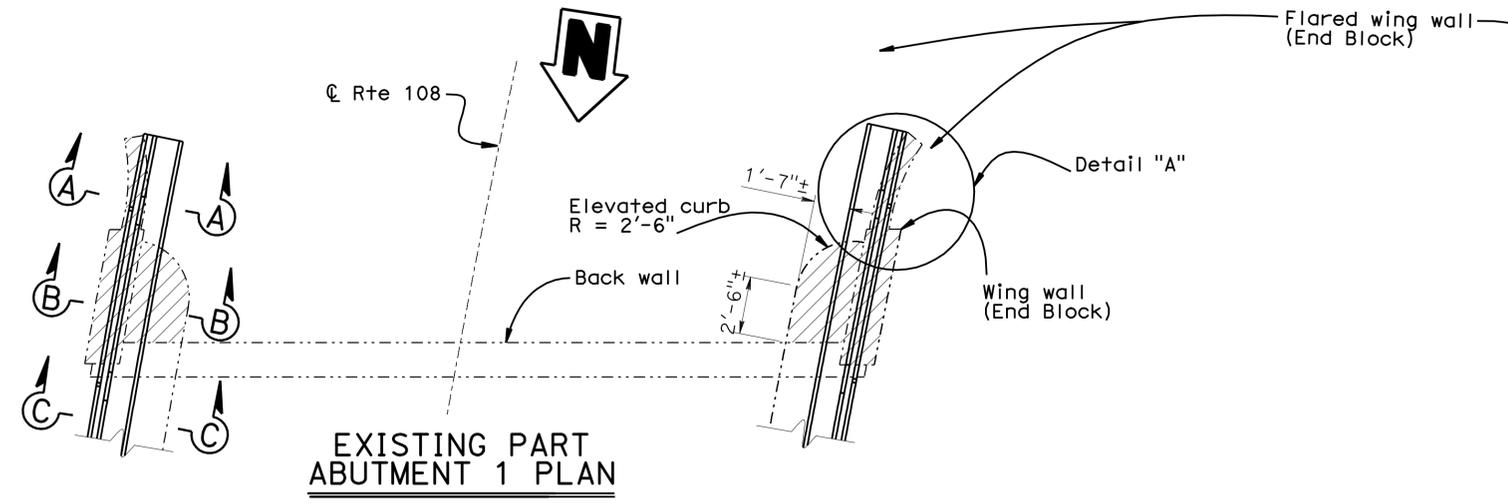
NO SCALE

NSP T65 DATED APRIL 3, 2009 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T65

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Tuo	108	31.2	19	23

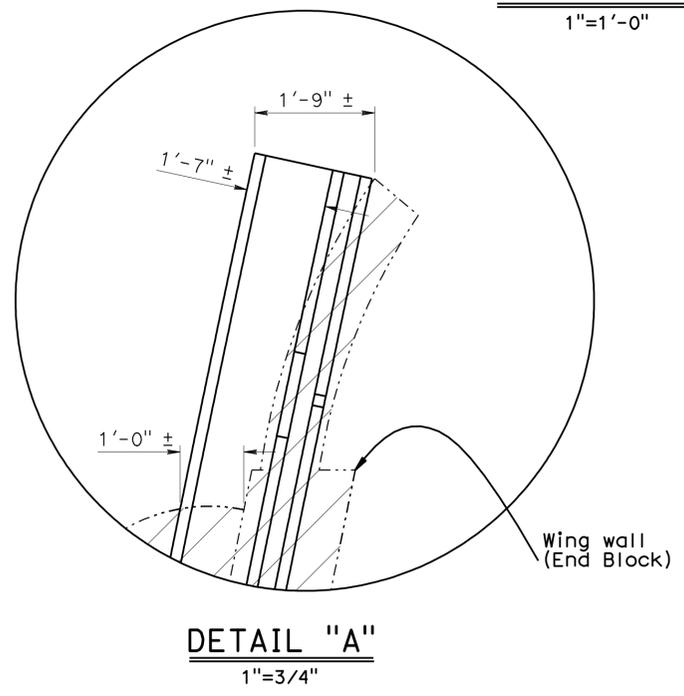
8-18-09
 REGISTERED CIVIL ENGINEER DATE
 2-1-10
 PLANS APPROVAL DATE
 No. 57583
 Exp. 12-31-09
 CIVIL
 STATE OF CALIFORNIA



LEGEND

	Indicates limits of bridge removal (portion)
	Indicates structure excavation
	Indicates AC removal
	Indicates existing structure
	Indicates new construction

- NOTES**
- Span 1 and partial Span 2 shown, remaining bridge similar
 - Right side shown, Left side similar
 - Reinforcing exposed after Barrier Modification shall be cut off 1" below finish surface and the hole filled with mortar
 - Bridge Removal (portion), existing reinforcement to remain
- * Remove to top of existing curb level
 ** Sawcut and remove AC



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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Gloria Reyes Gutierrez	CHECKED Fritz Hoffman	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	32-0010	SOUTH FORK STANISLAUS RIV BR(MOD) STRUCTURE REMOVAL DETAILS NO.1
	DETAILS	BY B.Jenko\G.Zweier/KC	CHECKED Fritz Hoffman			POST MILE	31.2	
	QUANTITIES	BY Gloria Reyes Gutierrez	CHECKED Fritz Hoffman	CU 10 EA ON3701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 12-14-07 08-17-09 12-23-08 05-13-09 05-16-09 04-02-09 04-13-09 04-20-09 04-24-09		SHEET 2 OF 6

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

FILE => 32-0010+-brd01.dgn

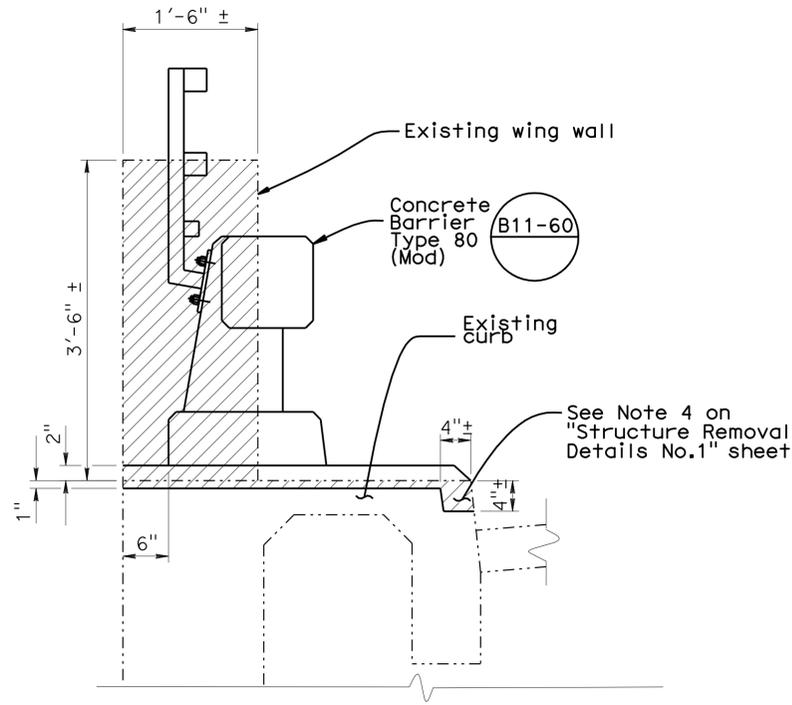
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Tuo	108	31.2	20	23

Gloria Reyes-Gutierrez 8-18-09
REGISTERED CIVIL ENGINEER DATE

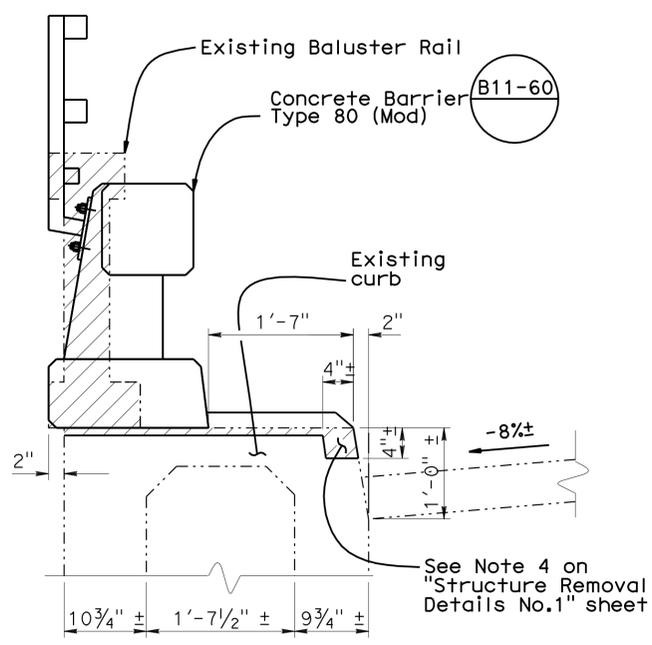
2-1-10
PLANS APPROVAL DATE

G. REYES GUTIERREZ
No. 57583
Exp. 12-31-09
CIVIL
STATE OF CALIFORNIA

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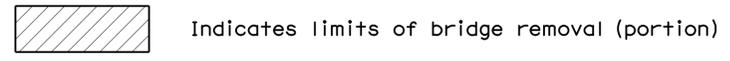


SECTION D-D
1"=1'-0"



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

Legend :



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

DESIGN	BY	Gloria Reyes Gutierrez	CHECKED	Fritz Hoffman	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	32-0010	SOUTH FORK STANISLAUS RIV BR(MOD) STRUCTURE REMOVAL DETAILS NO. 2	
	DETAILS	BY	Kamal chonkria	CHECKED			Fritz Hoffman	POST MILE		31.2
	QUANTITIES	BY	Gloria Reyes Gutierrez	CHECKED			Fritz Hoffman	CU 10 EA ON3701		REVISION DATES
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)										
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES			SHEET 3 OF 6	

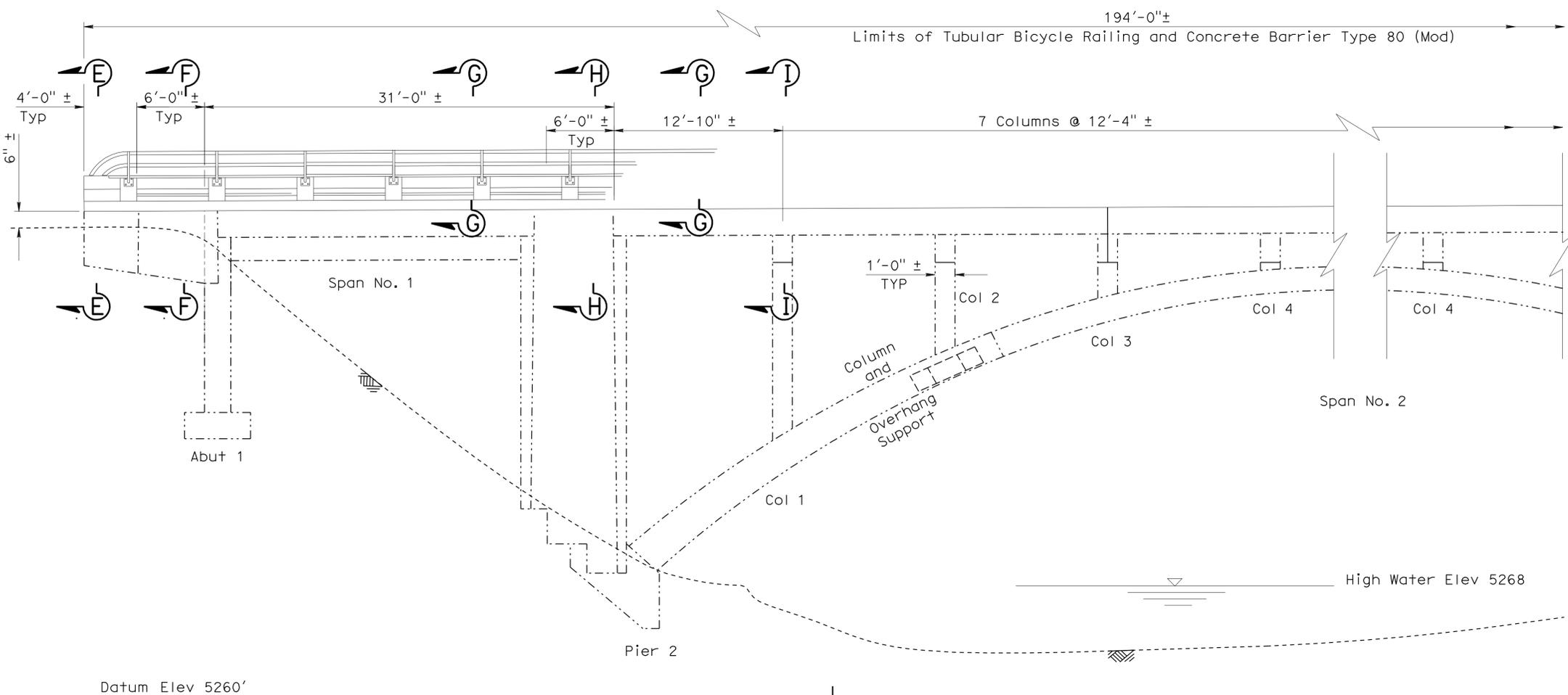
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Tuo	108	31.2	21	23

Gloria Reyes-Gutierrez 8-18-09
 REGISTERED CIVIL ENGINEER DATE

2-1-10
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 G. REYES GUTIERREZ
 No. 57583
 Exp. 12-31-09
 CIVIL
 STATE OF CALIFORNIA



PARTIAL DEVELOPED ELEVATION
 1" = 5'-0"

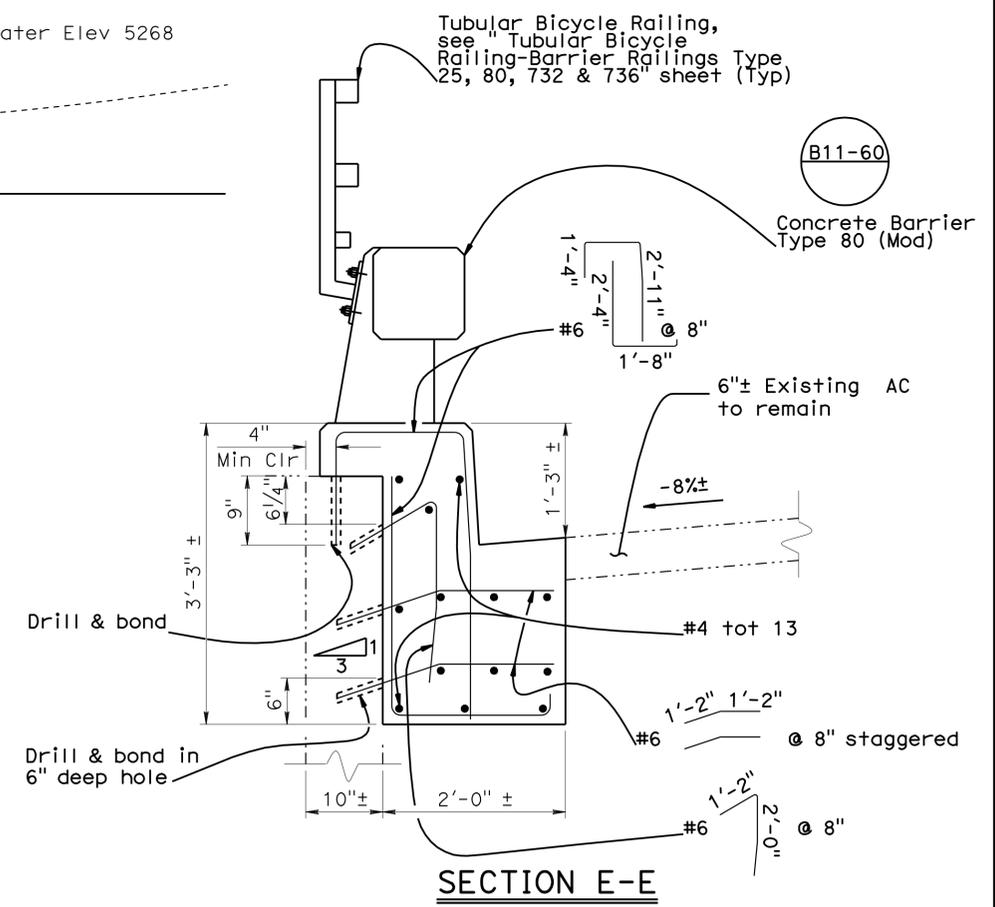
LEGEND

- Indicates existing structure
- Indicates new structure

NOTES

- Span 1 and partial Span 2 shown, remaining bridge similar
- Right side rail shown, left side similar
- All Steel to be epoxy coated

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



DESIGN	BY Tillat Satter/ GRG	CHECKED Fritz Hoffman
DETAILS	BY G Zweier/K. Chonkria	CHECKED Fritz Hoffman
QUANTITIES	BY Gloria Reyes Gutierrez	CHECKED Fritz Hoffman

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 6

BRIDGE NO. 32-0010
 POST MILE 31.2
SOUTH FORK STANISLAUS RIV BR(MOD)
BARRIER DETAILS NO.1

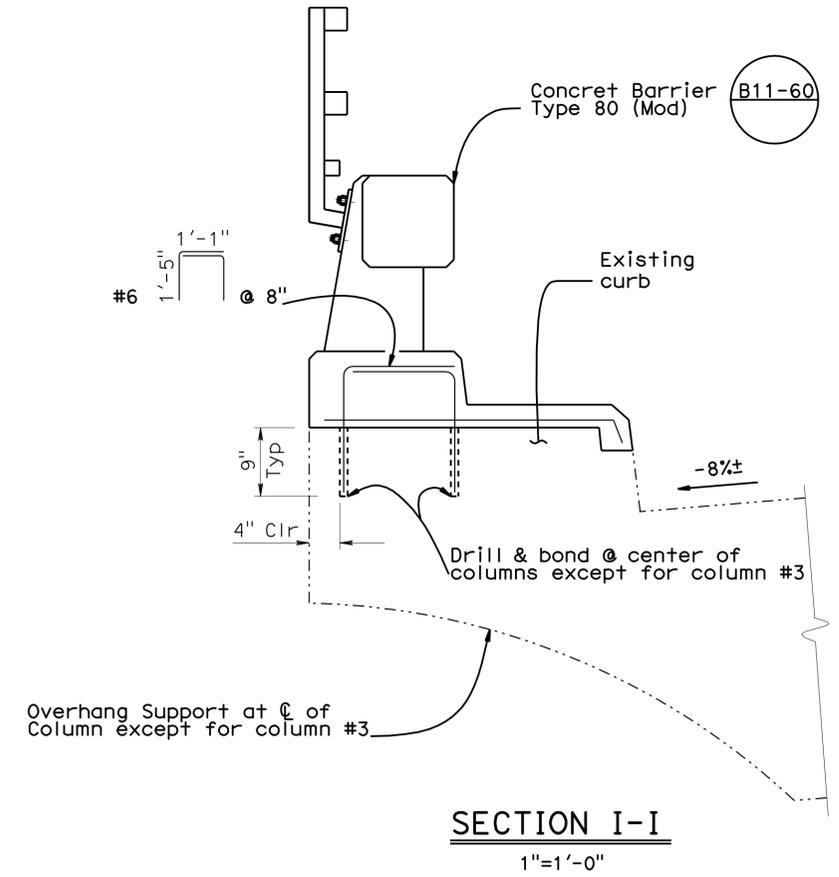
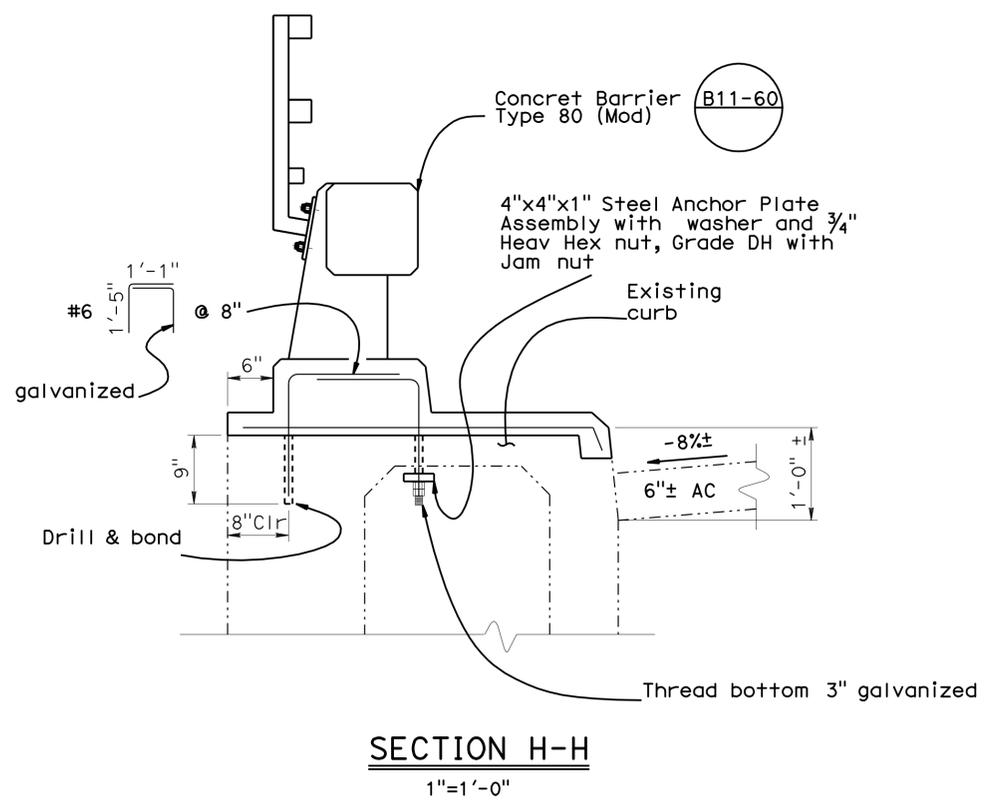
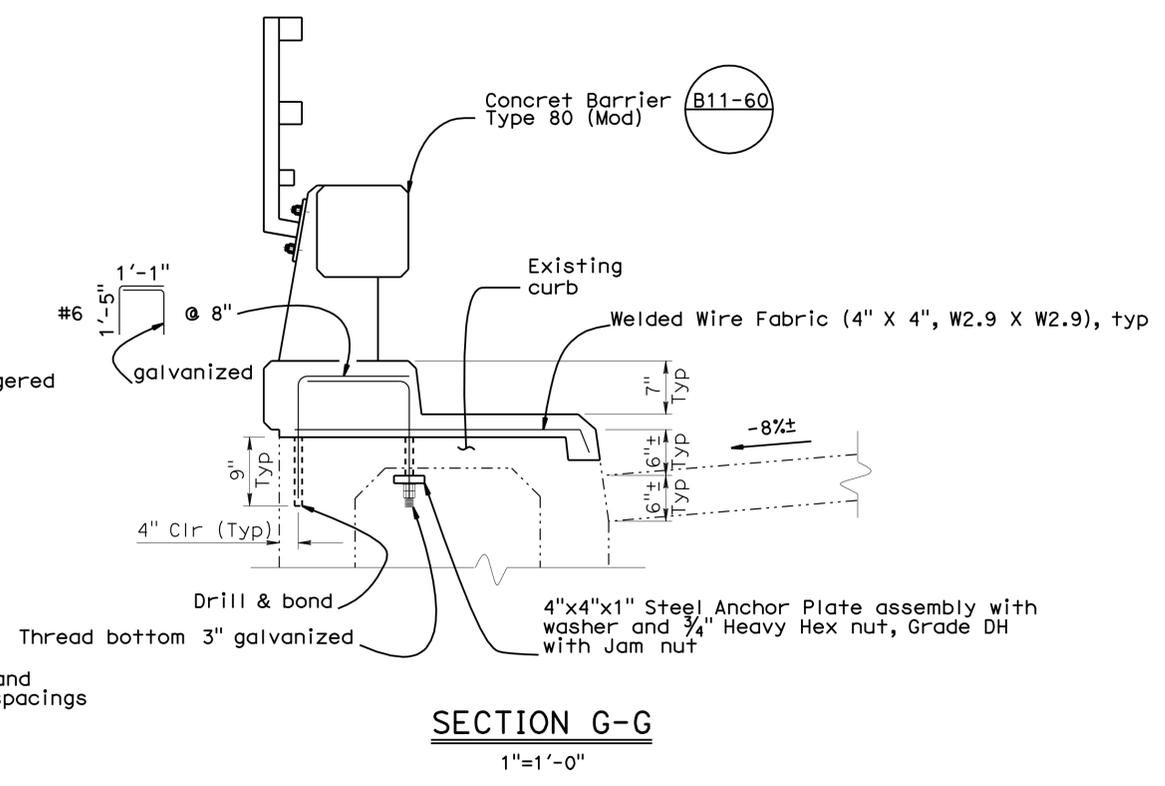
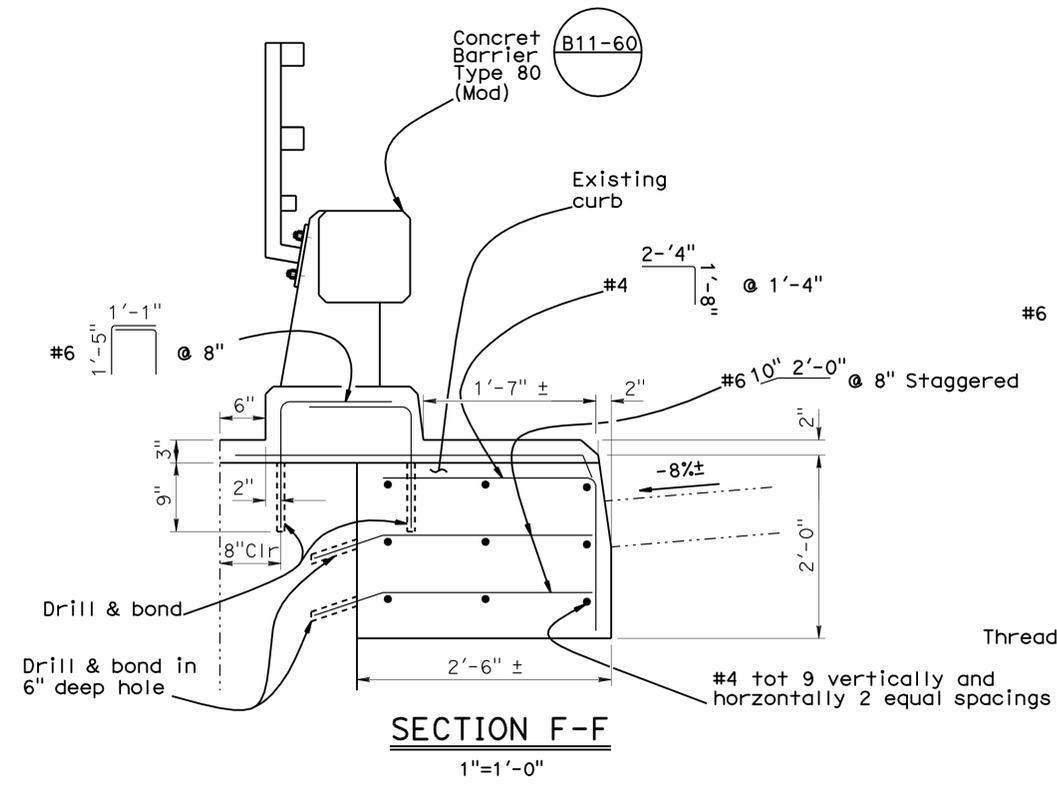
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Tuo	108	31.2	22	23

Gloria Reyes-Gutierrez 8-18-09
 REGISTERED CIVIL ENGINEER DATE

2-1-10
 PLANS APPROVAL DATE

G. REYES GUTIERREZ
 No. 57583
 Exp. 12-31-09
 CIVIL
 STATE OF CALIFORNIA

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NOTES :

- SECTION G-G applies to both sides of column #3 starting 4" from face of both sides of column #3.
- Final fastening of nuts after concrete pour.

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

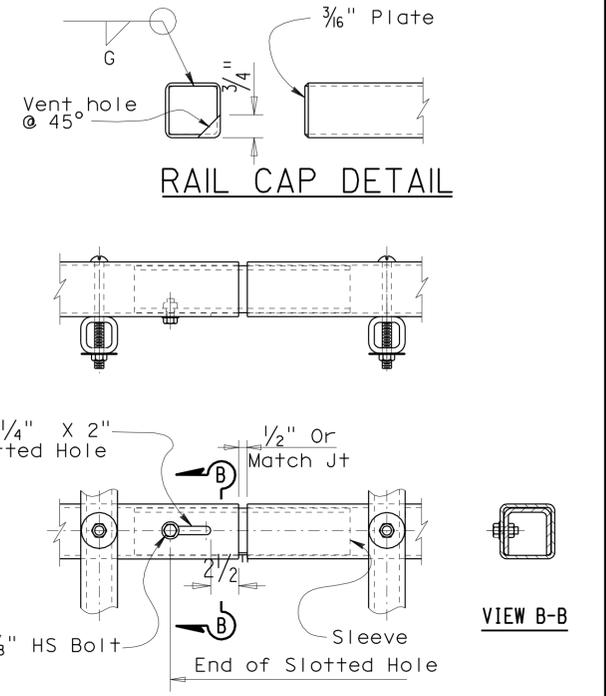
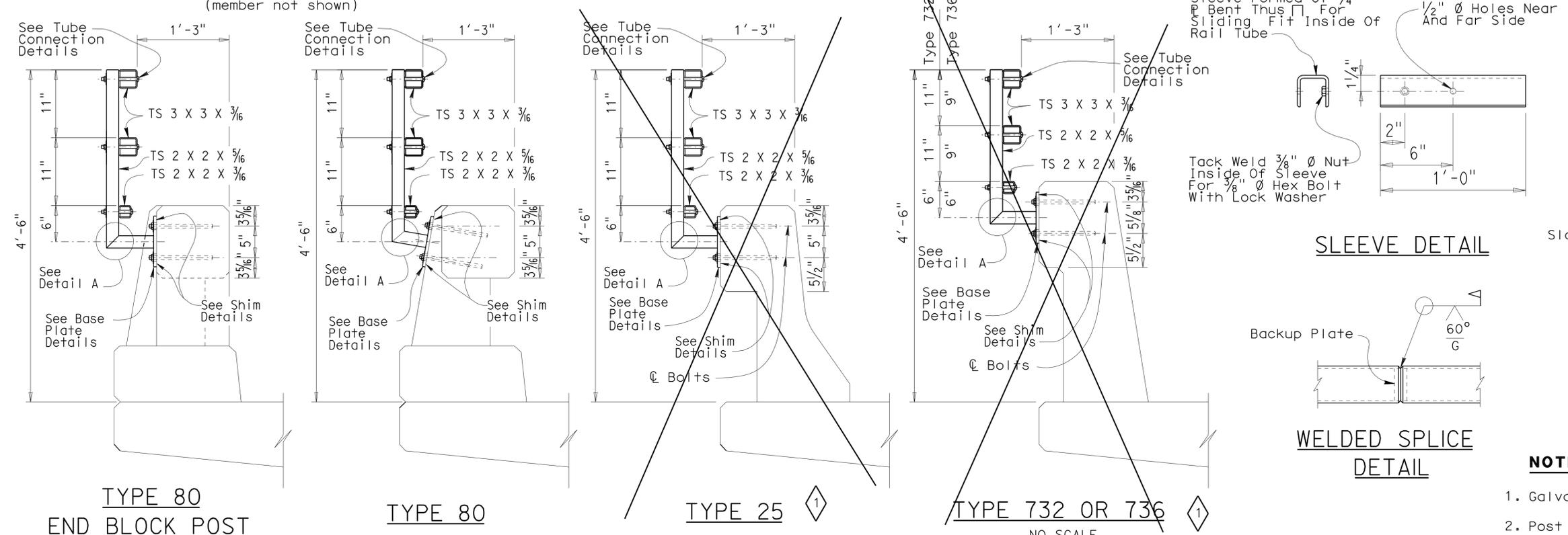
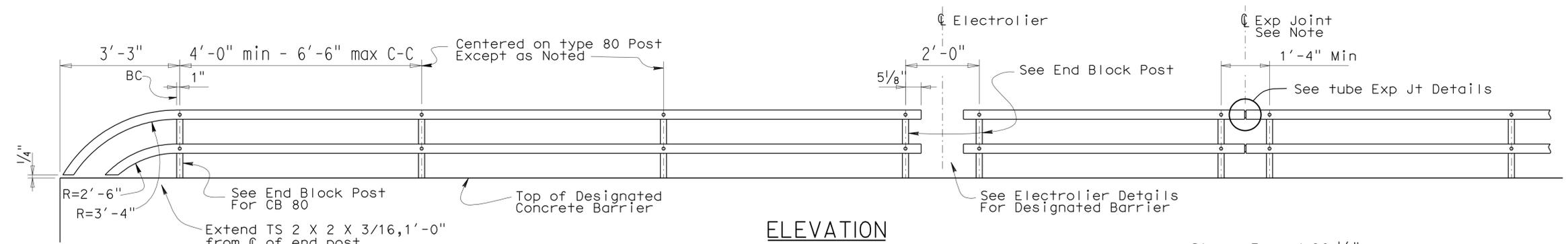
DESIGN	BY	Tillat Satter/GRG	CHECKED	Fritz Hoffman	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	32-0010	SOUTH FORK STANISLAUS RIV BR(MOD) BARRIER DETAILS NO. 2
	DETAILS	BY	G. Zweier/K. Chonkria	CHECKED			Fritz Hoffman	POST MILE	
QUANTITIES	BY	Gloria Reyes Gutierrez	CHECKED	Fritz Hoffman	CU 10 EA ON3701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 5 OF 6	

USERNAME => fhmikes | DATE PLOTTED => 04-FEB-2010 | TIME PLOTTED => 13:37

DIST.	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Tuo	108	31.2	23	23

Gloria Reyes Gutierrez 8-18-09
 REGISTERED ENGINEER - CIVIL
 No. 57583
 Exp. 12-31-09
 CIVIL
 STATE OF CALIFORNIA

2-1-10
 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.



SLEEVE DETAIL

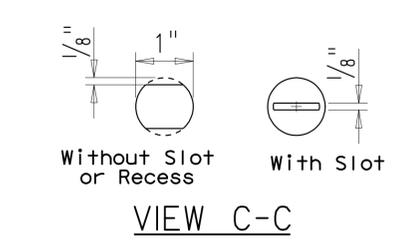
WELDED SPLICE DETAIL

TUBE EXPANSION JOINT DETAILS

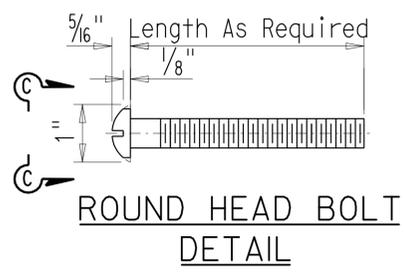
NOTES:

- Galvanize rail assembly after fabrication.
- Post shall be normal to railing.
- Rail tubes shall be shop bent or fabricated to fit horizontal curve when radius is less than 984'-0".
- Tube splices shall be located in the tubes spanning deck or wall joints. Increase joint width in tubes to match expansion joint width and increase sleeve length correspondingly.
- Top rail tube shall be continuous over not less than two posts except a short post spacing is permitted near deck or wall joints, electroliers, or other rail discontinuities as noted.
- For details and reinforcement not shown see Standard Plan.
- See project plans for limits of tubular bicycle railing.

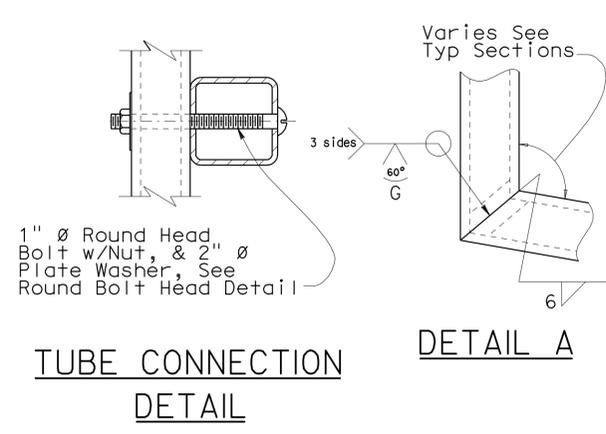
SPECIAL DETAILS



VIEW C-C

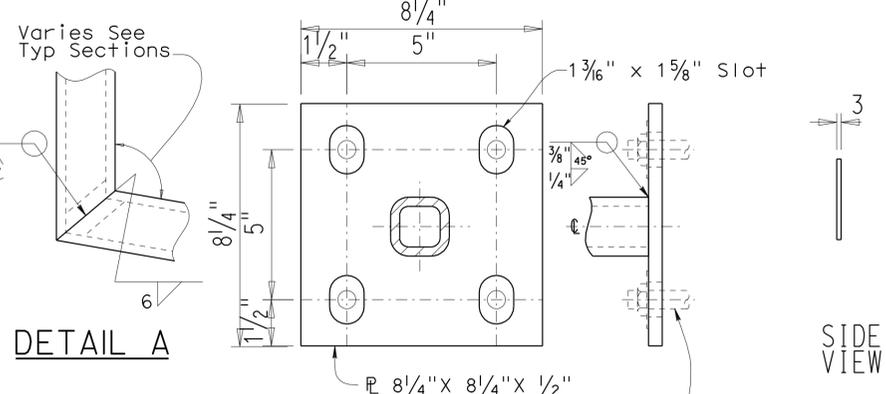


ROUND HEAD BOLT DETAIL

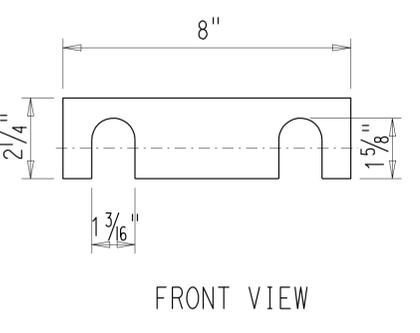


TUBE CONNECTION DETAIL

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



BASE PLATE DETAIL



SHIM DETAILS

1 CROSSED-OUT DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES

BRIDGE NO.
32-0010
POST MILE
31.2

SOUTH FORK STANISLAUS RIV BR(MOD)
TUBULAR BICYCLE RAILING
BARRIER RAILINGS TYPE 25, 80, 732 & 736

RELEASE DATE	REVISED	DESIGN	BY TILLAT SATTER	CHECKED	NEELIMA PATIL	RELEASED BY	
FILE NO.	XS16-500	DETAILS	BY H.NGUYEN	CHECKED	TILLAT SATTER	OFFICE CHIEF	Roberto Small
		SUBMITTED	BY	DRAWING DATE	08/06		

USERNAME => trmikes1 DATE PLOTTED => 04-FEB-2010 TIME PLOTTED => 13:38