

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	LAYOUTS
4-5	CONSTRUCTION DETAILS
6	CONTOUR GRADING
7-13	STAGE CONSTRUCTION PLANS
14-16	PAVEMENT DELINEATION PLANS
17	SUMMARY OF QUANTITIES
18-22	TEMPORARY LIGHTING SYSTEM
23-33	REVISED AND NEW STANDARD PLANS

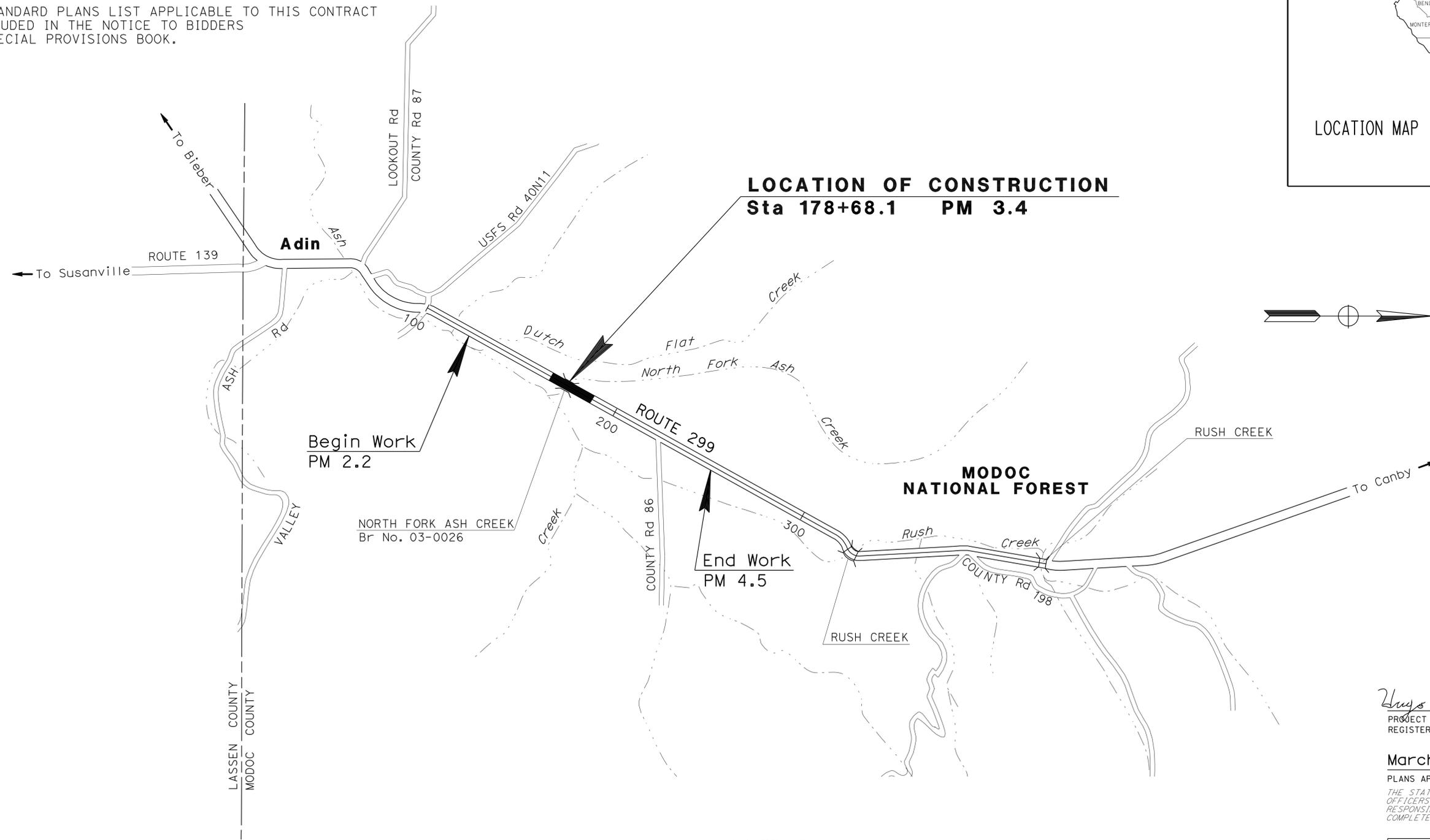
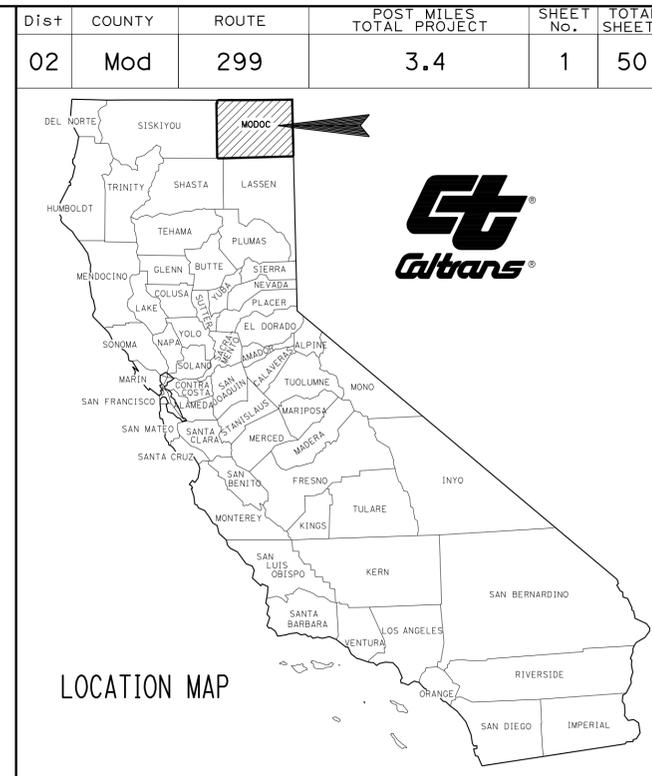
STRUCTURE PLANS

34-50 NORTH FORK ASH CREEK BRIDGE (REPLACE), Br No. 03-0060

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

STATE OF CALIFORNIA BHSTP-P299(164)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN MODOC COUNTY
NEAR ADIN
AT NORTH FORK ASH CREEK BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

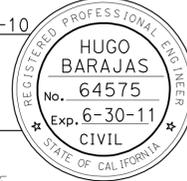


PROJECT MANAGER ERIC ORR	DESIGN ENGINEER CHUCK LAUGHLIN
------------------------------------	--

Hugo Barajas 12-20-10
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER

March 14, 2011
 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.	02-2C2214
PROJECT ID	0200000165

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
02	Mod	299	3.4	2	50

HUGO BARAJAS
 REGISTERED CIVIL ENGINEER
 No. 64575
 Exp. 6-30-11
 CIVIL

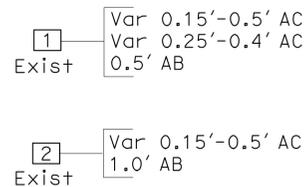
12-20-10
 DATE
 3-14-11
 PLANS APPROVAL DATE

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.

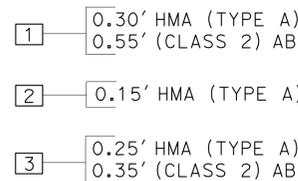
NOTES:

- DIMENSIONS OF THE STRUCTURAL SECTION ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SEE LAYOUT SHEETS FOR LOCATION AND TYPE OF MBGR, DIKE, AND FENCE.
- FOR DRIVEWAY, SEE CONSTRUCTION DETAILS.

EXISTING STRUCTURAL SECTION

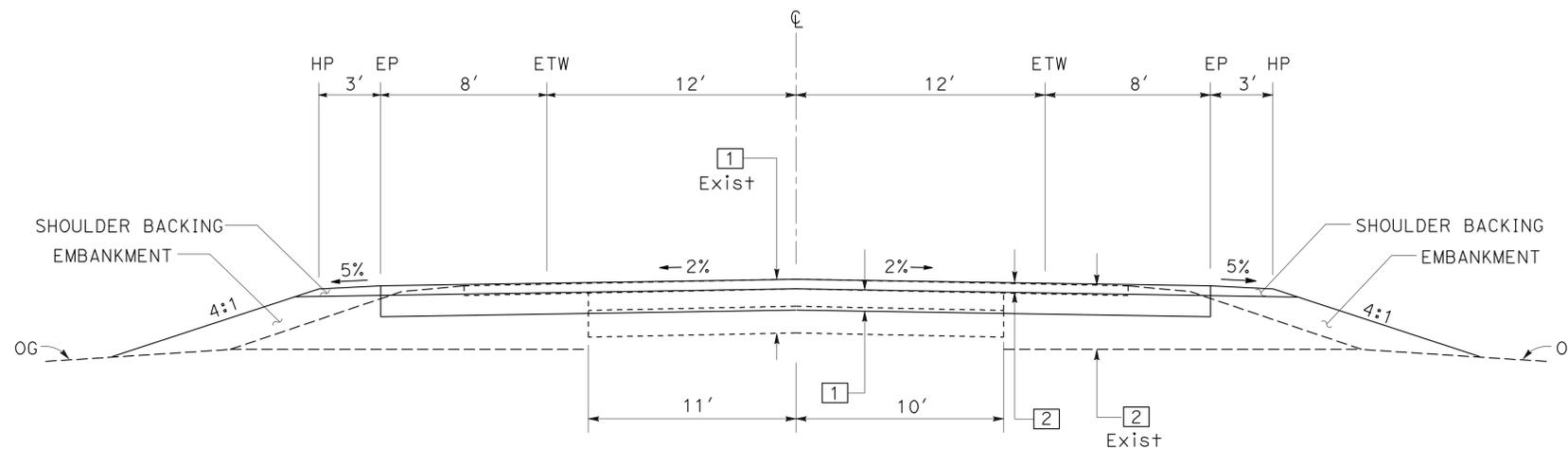


DESIGN STRUCTURAL SECTION



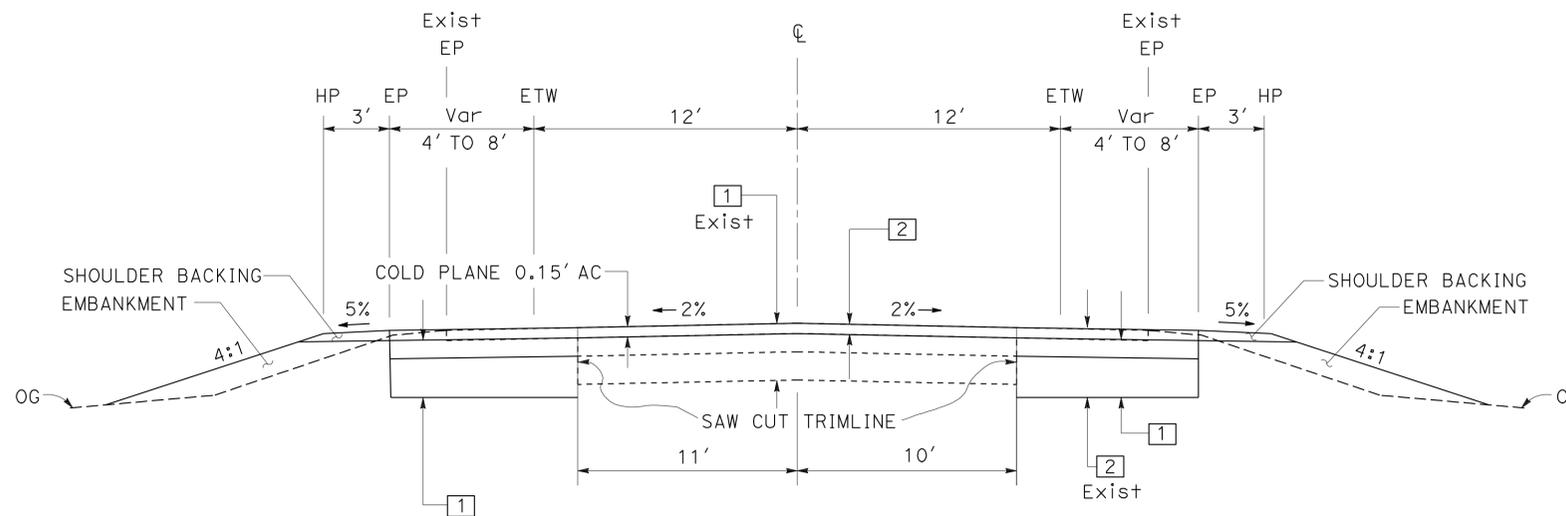
DESIGN DESIGNATION

20 YEAR TI = 9.0
 ADT (2007) = 1500
 20 YEAR ADT (2031) = 1500
 DESIGN SPEED = 70 MPH



ROUTE 299

178+95.6 TO 179+07.2
 178+38.1 TO 178+49.6



ROUTE 299

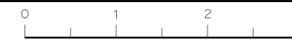
179+07.2 TO 180+52.7
 176+79.5 TO 178+38.1

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	C. LAUGHLIN	H. BARAJAS	
NORTH REGION OFFICE OF DESIGN, EAST DESIGN BRANCH M7	CHECKED BY	DESIGNED BY	DATE
		C. LAUGHLIN	



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	3.4	3	50

<i>Hugo Barajas</i>	12-20-10
REGISTERED CIVIL ENGINEER	DATE
3-14-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
HUGO BARAJAS
No. 64575
Exp. 6-30-11
CIVIL

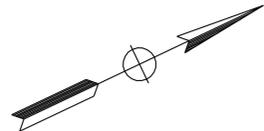
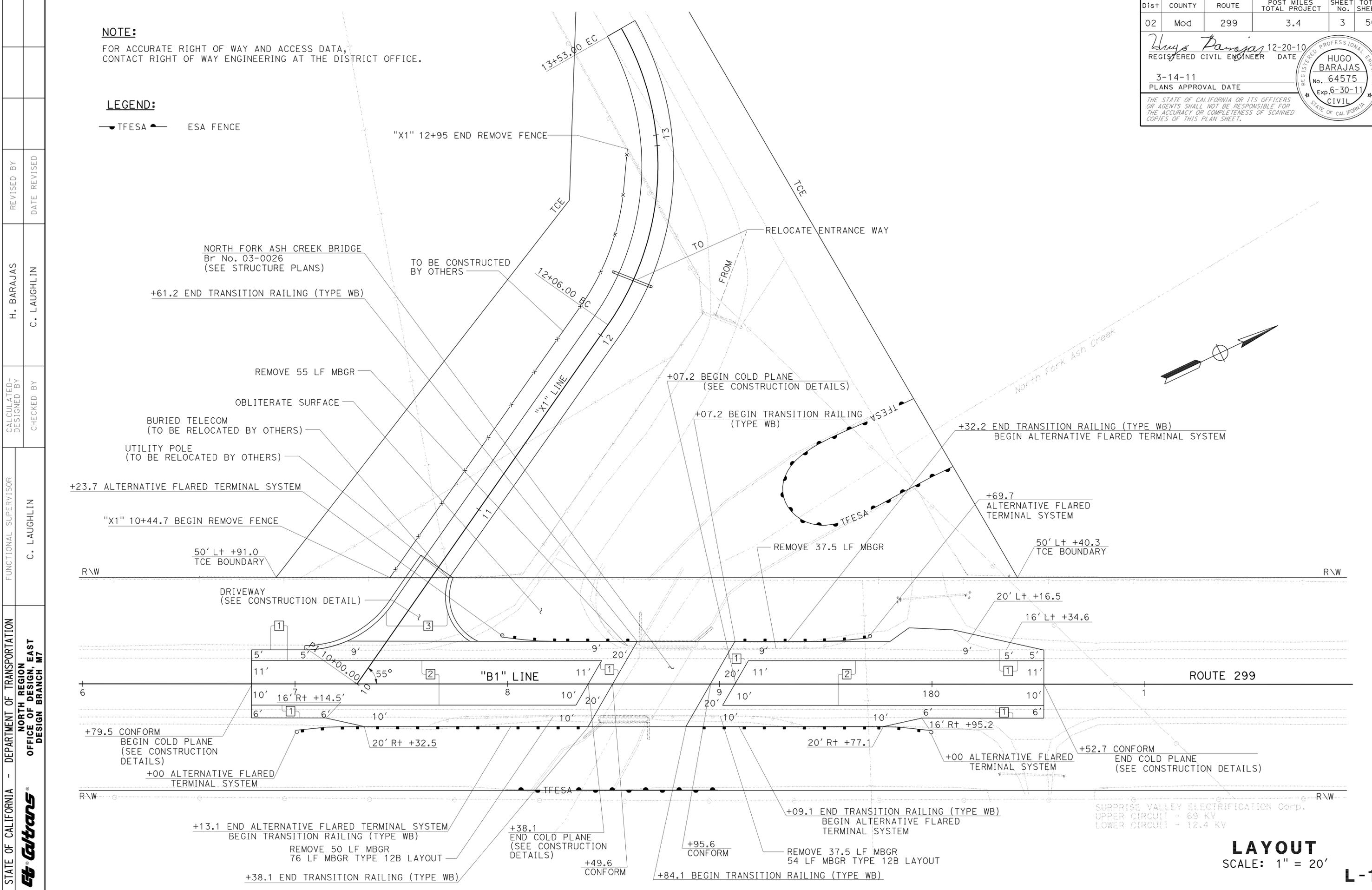
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

—TFESA— ESA FENCE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 NORTH REGION
 OFFICE OF DESIGN, EAST
 DESIGN BRANCH M7

FUNCTIONAL SUPERVISOR
 C. LAUGHLIN

REVISOR
 H. BARAJAS

DESIGNER
 C. LAUGHLIN

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		

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

LEGEND:
 —TFESA— ESA FENCE

"X1" 12+95 END REMOVE FENCE

NORTH FORK ASH CREEK BRIDGE
 Br No. 03-0026
 (SEE STRUCTURE PLANS)

+61.2 END TRANSITION RAILING (TYPE WB)

REMOVE 55 LF MBGR

OBLITERATE SURFACE

BURIED TELECOM
 (TO BE RELOCATED BY OTHERS)

UTILITY POLE
 (TO BE RELOCATED BY OTHERS)

+23.7 ALTERNATIVE FLARED TERMINAL SYSTEM

"X1" 10+44.7 BEGIN REMOVE FENCE

50' Lt +91.0
 TCE BOUNDARY

DRIVEWAY
 (SEE CONSTRUCTION DETAIL)

"X1" LINE

+07.2 BEGIN COLD PLANE
 (SEE CONSTRUCTION DETAILS)

+07.2 BEGIN TRANSITION RAILING
 (TYPE WB)

RELOCATE ENTRANCE WAY

TO BE CONSTRUCTED
 BY OTHERS

12+06.00 EC

13+53.00 EC

13

12

11

10

TO

FROM

TFESA

+32.2 END TRANSITION RAILING (TYPE WB)
 BEGIN ALTERNATIVE FLARED TERMINAL SYSTEM

+69.7
 ALTERNATIVE FLARED
 TERMINAL SYSTEM

REMOVE 37.5 LF MBGR

50' Lt +40.3
 TCE BOUNDARY

20' Lt +16.5

16' Lt +34.6

ROUTE 299

+79.5 CONFORM
 BEGIN COLD PLANE
 (SEE CONSTRUCTION
 DETAILS)

+00 ALTERNATIVE FLARED
 TERMINAL SYSTEM

20' Rt +32.5

20' Rt +77.1

+00 ALTERNATIVE FLARED
 TERMINAL SYSTEM

+52.7 CONFORM
 END COLD PLANE
 (SEE CONSTRUCTION
 DETAILS)

16' Rt +95.2

TFESA

+13.1 END ALTERNATIVE FLARED TERMINAL SYSTEM
 BEGIN TRANSITION RAILING (TYPE WB)

REMOVE 50 LF MBGR
 76 LF MBGR TYPE 12B LAYOUT

+38.1 END TRANSITION RAILING (TYPE WB)

+38.1
 END COLD PLANE
 (SEE CONSTRUCTION
 DETAILS)

+49.6
 CONFORM

+95.6
 CONFORM

REMOVE 37.5 LF MBGR
 54 LF MBGR TYPE 12B LAYOUT

+84.1 BEGIN TRANSITION RAILING (TYPE WB)

+09.1 END TRANSITION RAILING (TYPE WB)
 BEGIN ALTERNATIVE FLARED
 TERMINAL SYSTEM

SURPRISE VALLEY ELECTRIFICATION Corp.
 UPPER CIRCUIT - 69 KV
 LOWER CIRCUIT - 12.4 KV

LAYOUT
 SCALE: 1" = 20'
L-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	3.4	4	50

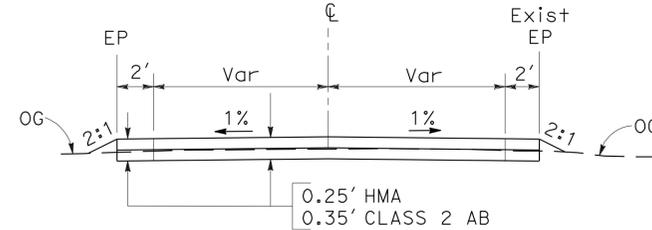
HUGO BARAJAS 12-20-10
 REGISTERED CIVIL ENGINEER DATE
 3-14-11
 PLANS APPROVAL DATE

HUGO BARAJAS
 No. 64575
 Exp. 6-30-11
 CIVIL

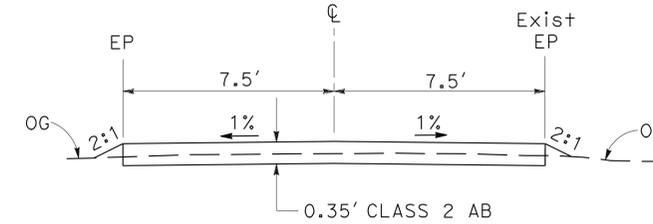
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CURVE DATA

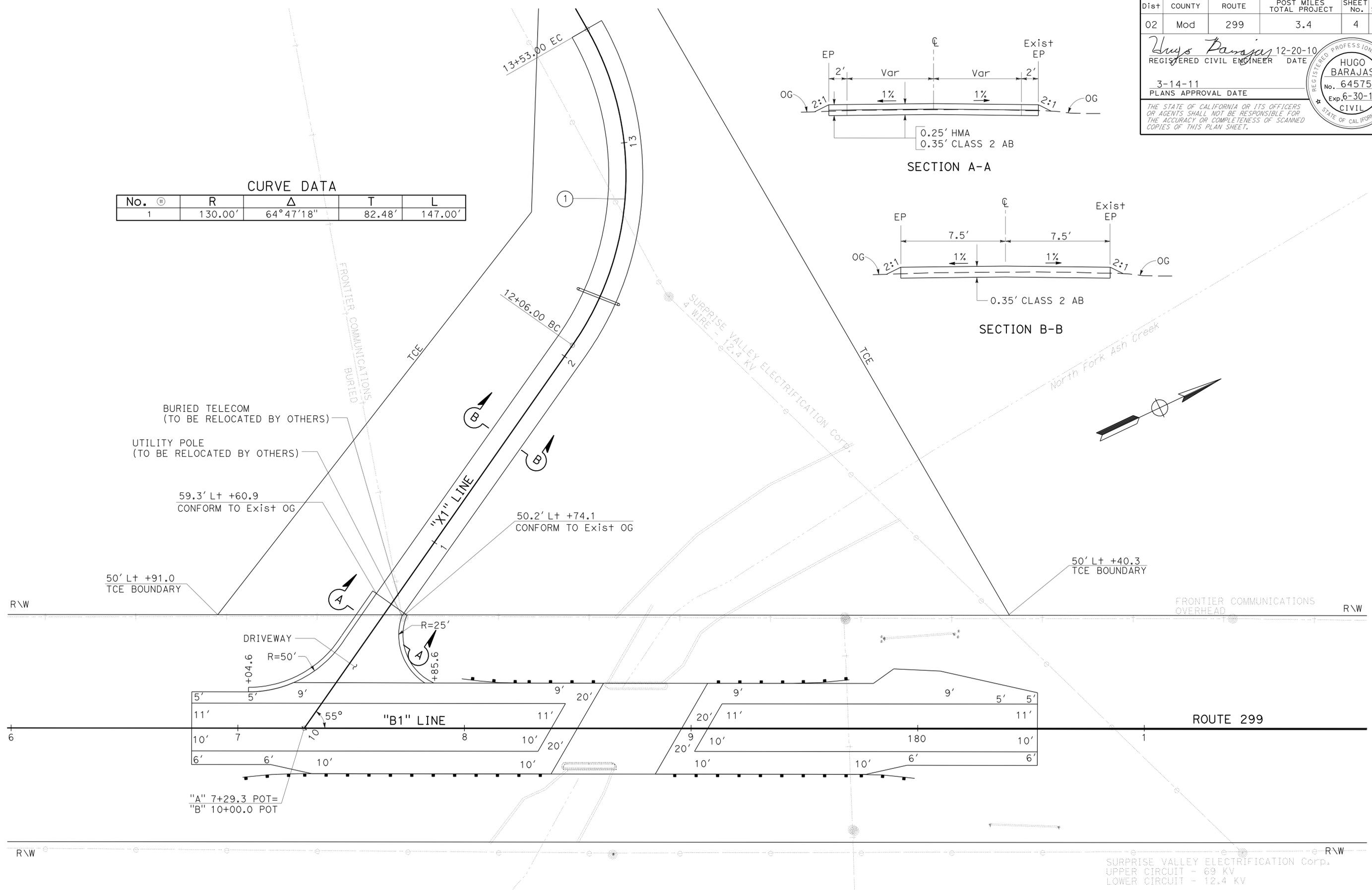
No.	⊕	R	Δ	T	L
1		130.00'	64° 47' 18"	82.48'	147.00'



SECTION A-A



SECTION B-B



CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 NORTH REGION
 OFFICE OF DESIGN, EAST
 DESIGN BRANCH M7
 H. BARAJAS
 C. LAUGHLIN
 C. LAUGHLIN
 C. LAUGHLIN

USERNAME => trminguye
 DGN FILE => 0200000165ga001.dgn



UNIT 0328

PROJECT NUMBER & PHASE

02000001651

LAST REVISION DATE PLOTTED => 18-MAR-2011
 12-20-10 TIME PLOTTED => 12:53

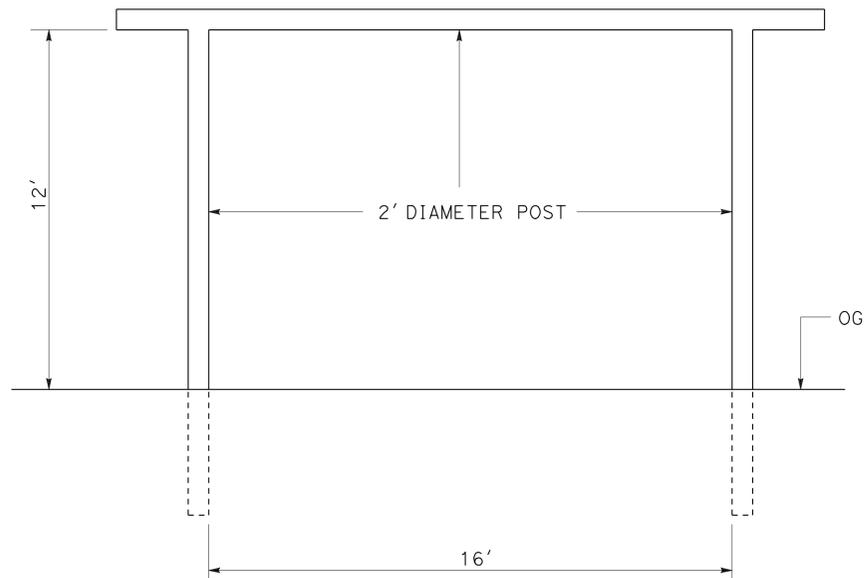
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	3.4	5	50

Hugo Barajas 12-20-10
 REGISTERED CIVIL ENGINEER DATE

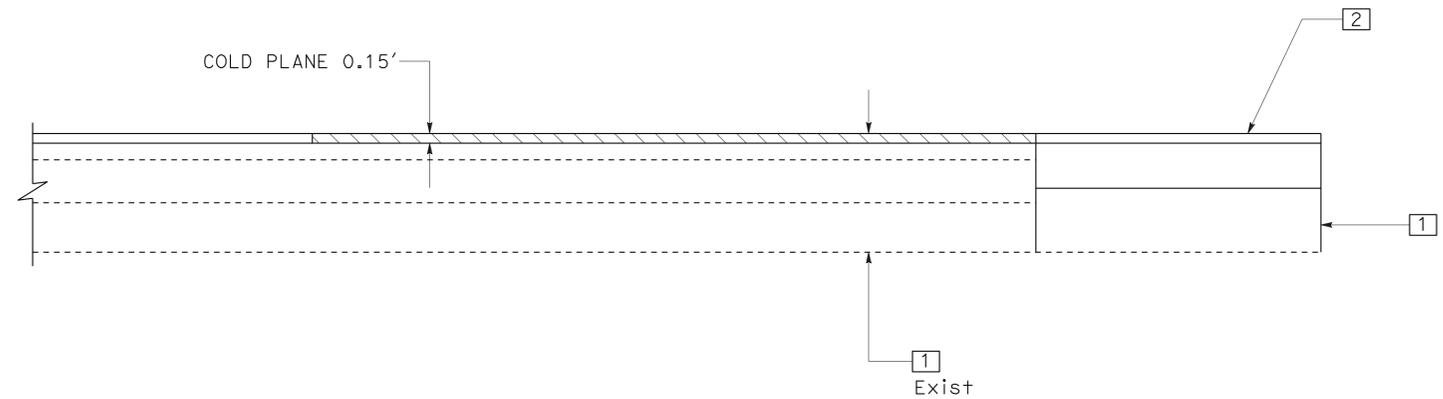
3-14-11
 PLANS APPROVAL DATE

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
HUGO BARAJAS
 No. 64575
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA



RELOCATE ENTRANCE
Sta "X1" 12+30



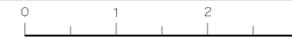
PAVEMENT TRANSITIONS
SEE LAYOUT SHEETS FOR LOCATIONS

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
Caltrans	C. LAUGHLIN	H. BARAJAS	
NORTH REGION	CHECKED BY	C. LAUGHLIN	
OFFICE OF DESIGN, EAST			
DESIGN BRANCH M7			



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	3.4	6	50

HUGO BARAJAS 12-20-10
 REGISTERED CIVIL ENGINEER DATE
 3-14-11
 PLANS APPROVAL DATE

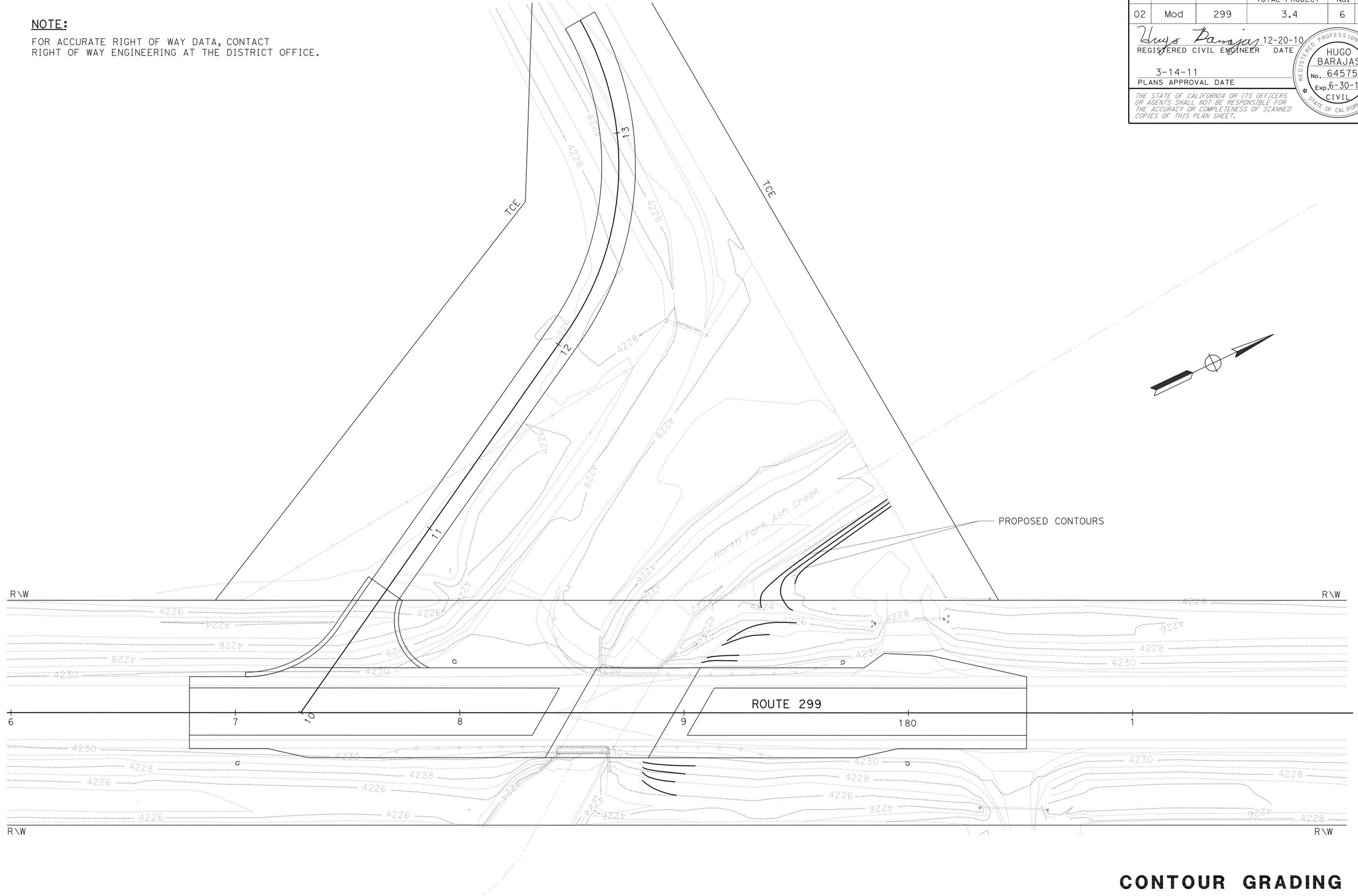
REGISTERED PROFESSIONAL ENGINEER
 HUGO BARAJAS
 No. 64575
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

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

NOTE:

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	C. LAUGHLIN	CHECKED BY	H. BARAJAS
NORTH REGION OFFICE OF DESIGN, EAST DESIGN BRANCH M7	C. LAUGHLIN		C. LAUGHLIN



CONTOUR GRADING

SCALE: 1" = 20'

G-1

THIS PLAN ACCURATE FOR CONTOUR GRADING WORK ONLY

LAST REVISION DATE PLOTTED => 18-MAR-2011
 12-20-10 TIME PLOTTED => 12:53

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 NORTH REGION
 OFFICE OF DESIGN, SOUTH
 DESIGN BRANCH S8
 Caltrans®
 H. BARAJAS
 C. LAUGHLIN
 C. LAUGHLIN
 H. BARAJAS

LEGEND

- CHANGE IN STRIPE PATTERN
- LIMIT OF STRIPE PATTERN
- SINGLE POST TRAFFIC SIGN
- DOUBLE POST TRAFFIC SIGN
- TYPE VI ARROW
- "AHEAD" PAVEMENT MARKING
- "STOP" PAVEMENT MARKING
- ROADSIDE SIGN / STATIONARY MOUNTED CONSTRUCTION AREA SIGN NUMBER
- FLASHING BEACON
- REMOVE TRAFFIC STRIPE
- DIRECTION OF TRAVEL
- TO BE CONSTRUCTED THIS STAGE

NOTES:

1. STATION AND OFFSETS ARE TO THE CENTER OF TEMPORARY RAILING (TYPE K)
2. FOR DETAILS NOT SHOWN SEE STANDARD PLANS (SP T13)

STAGE 1 CONSTRUCTION

1. CONSTRUCT PRIVATE ROAD AND CONNECTION
2. CONSTRUCT SOUTHBOUND PORTION OF METAL BEAM GUARD RAIL, ROADWAY STRUCTURAL SECTION, AND STRUCTURE
3. REVEGETATE UPSTREAM PORTION OF THE NORTH FORK ASH CREEK
4. STRIPE FOR ONE WAY TRAFFIC CONTROL FOR CONSTRUCTION ON WEST SIDE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	3.4	7	50

HUGO BARAJAS
 REGISTERED CIVIL ENGINEER
 No. 64575
 Exp. 6-30-11
 CIVIL

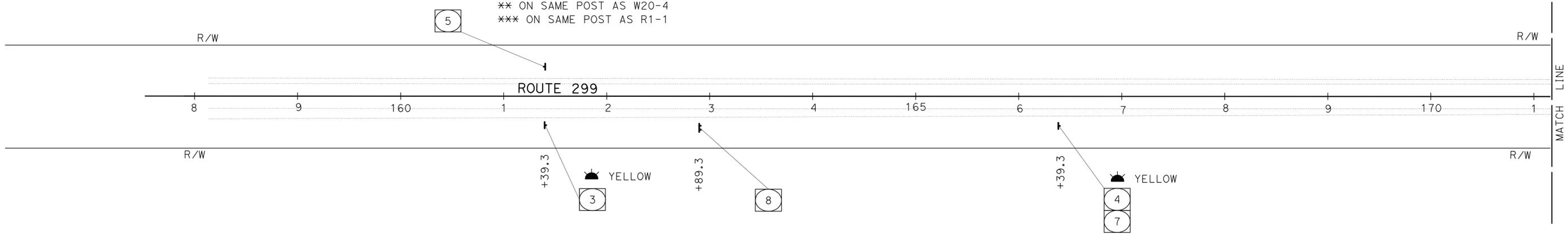
12-20-10
 DATE
 3-14-11
 PLANS APPROVAL DATE

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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	EA
	FEDERAL	CALIFORNIA				
①	W1-6L		48" X 24"		*	2
②	W3-4		48" X 48"	BE PREPARED TO STOP	1-6" X 6"	2
③	W20-1		48" X 48"	ROAD WORK AHEAD	1-6" X 6"	4
④	W20-4		48" X 48"	ONE LANE ROAD AHEAD	1-6" X 6"	2
⑤	G20-2		60" X 24"	END ROAD WORK	1-6" X 6"	2
⑥	R1-1		36" X 36"	STOP	1-6" X 6"	4
⑦	R4-1		24" X 30"	DO NOT PASS	**	2
⑧	C40		70" X 36"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONE	2-6" X 6"	2
⑨	SPECIAL		20" X 15"	AFTER STOP PROCEED WHEN CLEAR	***	4

EXACT SIGN LOCATIONS TO BE FIELD DETERMINED BY THE ENGINEER.
 * ON SAME POST AS W20-1
 ** ON SAME POST AS W20-4
 *** ON SAME POST AS R1-1



STAGE 1
STAGE CONSTRUCTION AND
TRAFFIC HANDLING PLAN

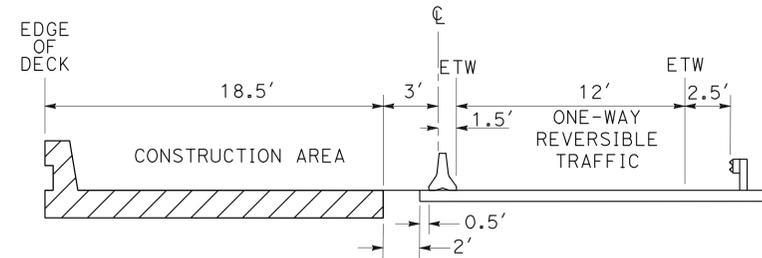
SCALE: 1" = 50'

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

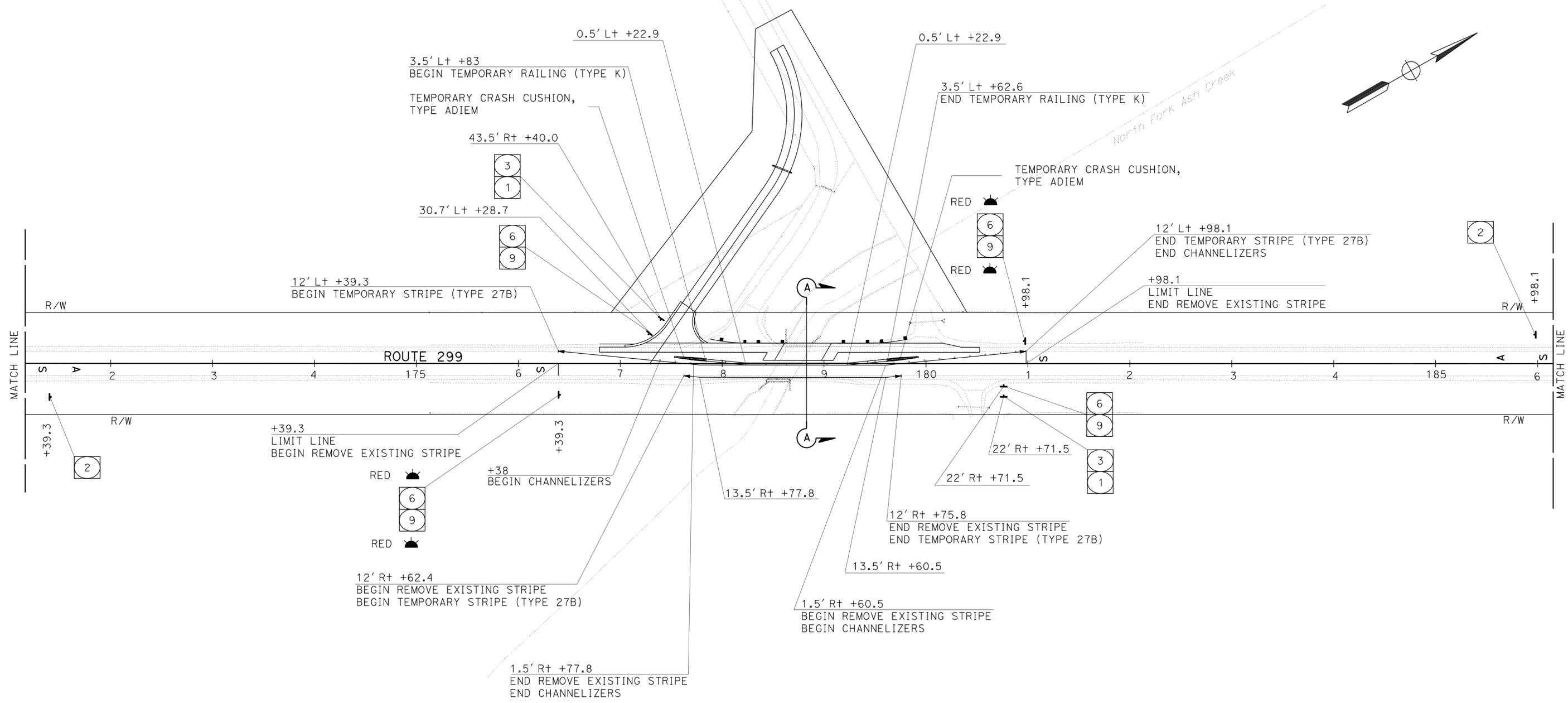
SC-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	3.4	8	50

HUGO BARAJAS 12-20-10
 REGISTERED CIVIL ENGINEER DATE
 3-14-11
 PLANS APPROVAL DATE
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SECTION A-A



**STAGE 1
STAGE CONSTRUCTION AND
TRAFFIC HANDLING PLAN**

SCALE: 1" = 50'

SC-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
Caltrans	C. LAUGHLIN	H. BARAJAS	C. LAUGHLIN
NORTH REGION OFFICE OF DESIGN, SOUTH DESIGN BRANCH S8	CHECKED BY	DATE	REVISION

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

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DGN FILE => 0200000165ma002.dgn



UNIT 0328

PROJECT NUMBER & PHASE

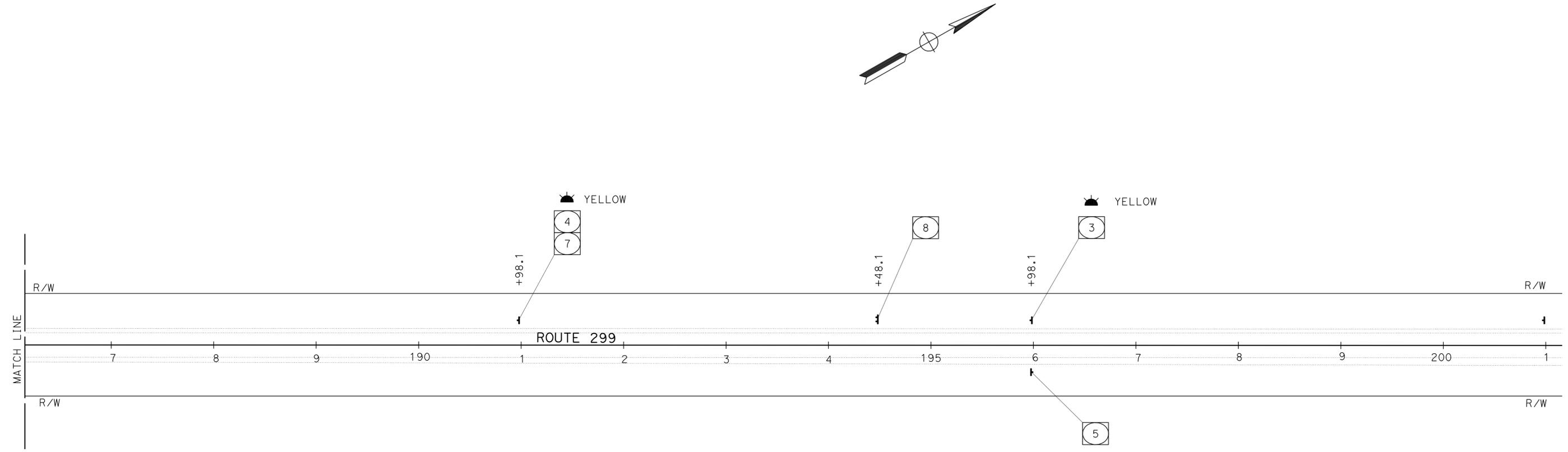
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BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 18-MAR-2011
00-00-00 TIME PLOTTED => 14:18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	3.4	9	50
<i>Hugo Barajas</i> 12-20-10 REGISTERED CIVIL ENGINEER DATE			HUGO BARAJAS No. 64575 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA		
3-14-11			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>					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	C. LAUGHLIN	C. LAUGHLIN	H. BARAJAS
NORTH REGION OFFICE OF DESIGN, SOUTH DESIGN BRANCH S8			C. LAUGHLIN



STAGE 1
STAGE CONSTRUCTION AND
TRAFFIC HANDLING PLAN
 SCALE: 1" = 50'
SC-3

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	3.4	12	50

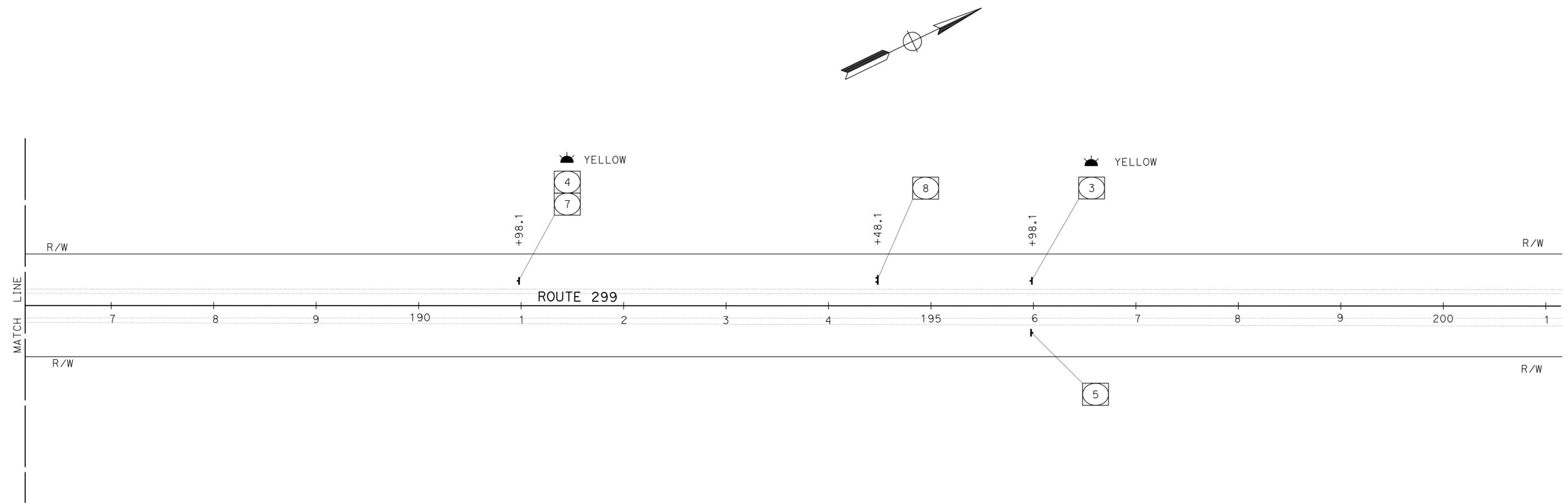
Hugo Barajas 12-20-10
 REGISTERED CIVIL ENGINEER DATE

3-14-11
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
HUGO BARAJAS
 No. 64575
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	C. LAUGHLIN	CHECKED BY	H. BARAJAS
NORTH REGION OFFICE OF DESIGN, SOUTH DESIGN BRANCH S8			C. LAUGHLIN



**STAGE 2
STAGE CONSTRUCTION AND
TRAFFIC HANDLING PLAN**

SCALE: 1" = 50' **SC-6**

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	3.4	14	50

Hugo Barajas 12-20-10
 REGISTERED CIVIL ENGINEER DATE

3-14-11
 PLANS APPROVAL DATE

HUGO BARAJAS
 No. 64575
 Exp. 6-30-11
 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.

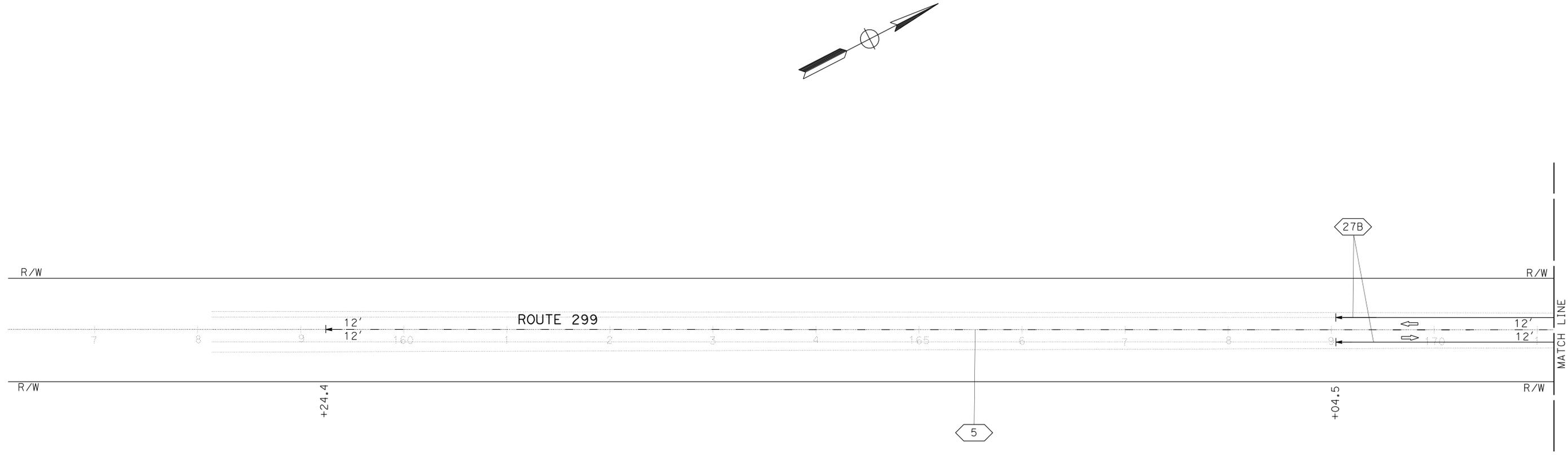
NOTE:

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

LEGEND:

- ← LIMIT OF STRIPE PATTERN
- ⬡ No. PAVEMENT DELINEATION DETAIL NUMBER
- ⇨ DIRECTION OF TRAVEL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
Caltrans	C. LAUGHLIN	CHECKED BY	H. BARAJAS
NORTH REGION OFFICE OF DESIGN, EAST DESIGN BRANCH M7			C. LAUGHLIN



PAVEMENT DELINEATION
 SCALE: 1" = 50'
PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 NORTH REGION
 OFFICE OF DESIGN, EAST
 DESIGN BRANCH M7

FUNCTIONAL SUPERVISOR
 C. LAUGHLIN

CALCULATED/DESIGNED BY
 CHECKED BY

H. BARAJAS
 C. LAUGHLIN

REVISED BY
 DATE

REVISIONS

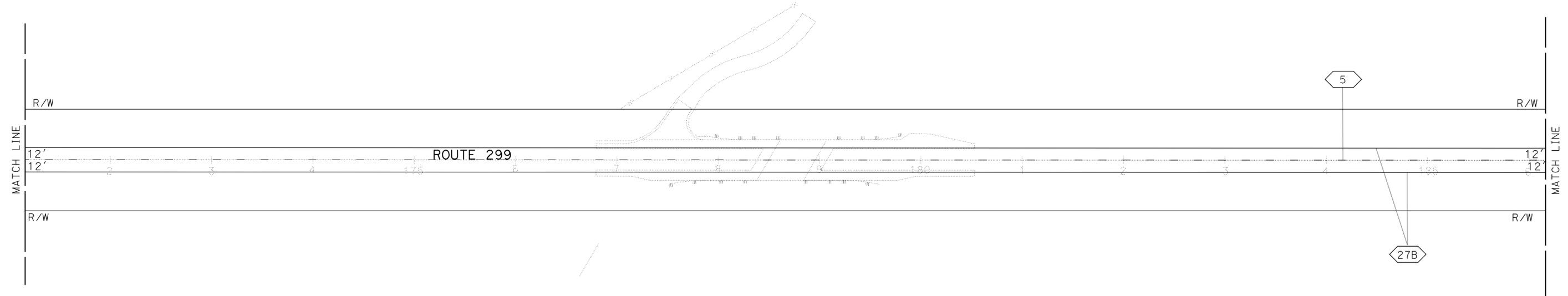
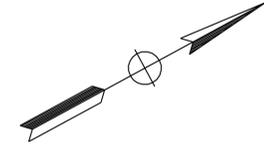
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	3.4	15	50

Hugo Barajas 12-20-10
 REGISTERED CIVIL ENGINEER DATE
 3-14-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUGO BARAJAS
 No. 64575
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

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



PAVEMENT DELINEATION
 SCALE: 1" = 50'
PD-2

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

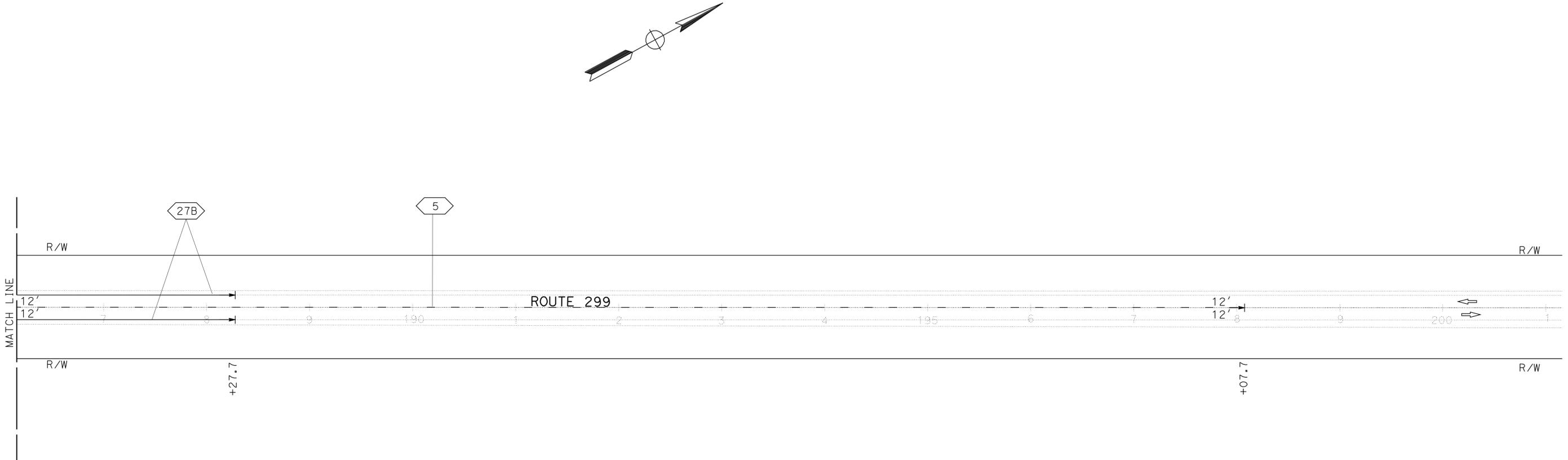
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	3.4	16	50

Hugo Barajas 12-20-10
 REGISTERED CIVIL ENGINEER DATE
 3-14-11
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 NORTH REGION
 OFFICE OF DESIGN, EAST
 DESIGN BRANCH M7
 Caltrans®
 H. BARAJAS
 C. LAUGHLIN
 C. LAUGHLIN
 C. LAUGHLIN
 C. LAUGHLIN



THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION
 SCALE: 1" = 50'
PD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 NORTH REGION
 OFFICE OF DESIGN, EAST
 DESIGN BRANCH M7
 C. LAUGHLIN
 FUNCTIONAL SUPERVISOR
 C. LAUGHLIN
 CHECKED BY
 H. BARAJAS
 DESIGNED BY
 H. BARAJAS
 REVISIONS: 12-20-10
 REGISTERED CIVIL ENGINEER DATE
 3-14-11
 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.

TEMPORARY TRAFFIC STRIPE (PAINT)

STAGE	DETAIL No.	
	21	27B
1	LF	674
2		920
3	374	746
SUBTOTAL	374	2340
TOTAL	2714	

REMOVE TRAFFIC STRIPE (WHITE)

STAGE	DETAIL No.	
	27B	LF
1		673
2		
3		
TOTAL	673	

REMOVE TRAFFIC STRIPE (YELLOW)

STAGE	DETAIL No.	
	6	LF
1		460
2		
3		
TOTAL	460	

TRAFFIC STRIPE

	DETAIL No.	
	5	27B
PAVEMENT DELINEATION	LF	920
TOTAL	1,380	

ROADWAY QUANTITIES

STATION	COLD PLANE AC PAVEMENT	HMA-A	AB CLASS 2	(N) EMBANKMENT	EXCAVATION	IMPORTED BORROW	IMPORTED MATERIAL (SHOULDER BACKING)	OBLITERATE SURFACE	TACK COAT
	SQYD	TON	CY	CY	CY	CY	TON	SQYD	TON
"B1" 176+79.5 TO "B1" 180+52.7	710	500	230	175	245		21		0.3
DRIVEWAY		20	75	530		460		170	
TOTAL	710	520	305	705	245	460	21	170	0.3

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

EROSION CONTROL HYDROSEED

STATION	UNIT	QUANTITY
"B1" 176+79.5 TO "B1" 180+52.7	ACRE	0.69

TEMPORARY PAVEMENT MARKING

STAGE	UNIT	REMARK
	EA	SQFT
1	2	24
	2	106
	2	44
TOTAL	6	174

REMOVE PAVEMENT MARKING

STAGE	UNIT	REMARK
	EA	SQFT
3	2	24
	2	106
	2	44
TOTAL	6	174

TEMPORARY FENCE (ESA)

STATION	LOCATION Lt/Rt	ESA FENCE
		LF
"B1" 179+28 TO "B1" 180+10	Lt	163
"B1" 178+00 TO "B1" 179+00	Rt	100
TOTAL		263

REMOVE FENCE

LOCATION	LF
Lt "B1" 177+44.7 TO "B1" 178+56.3	299

TEMPORARY WATER POLLUTION CONTROL

TEMPORARY FIBER ROLL	TEMPORARY SILT FENCE	COVER	TEMPORARY CONSTRUCTION ENTRANCE	MOVE IN/MOVE OUT TEMPORARY EROSION CONTROL
LF	LF	SQYD	EA	EA
202	182	670	2	4

METAL BEAM GUARD RAILING

STATION	DIRECTION	REMOVE MBGR	TRANSITION RAILING (TYPE WB)	ALTERNATIVE FLARED TERMINAL END SECTION	METAL BEAM GUARD RAIL
		LF	EA	EA	LF
"B1" 177+98.7 TO "B1" 178+61.2	Lt	55	1	1	
"B1" 179+07.2 TO "B1" 179+69.7	Lt	37.5	1	1	
"B1" 177+00 TO "B1" 178+38.1	Rt	50	1	1	76
"B1" 178+84.1 TO "B1" 180+00	Rt	37.5	1	1	54
TOTAL		180.0	4	4	130

TEMPORARY TRAFFIC ITEMS

ITEMS	QUANTITY	UNIT	REMARK
TEMPORARY RAILING (TYPE K)	340	LF	
TEMPORARY CRASH CUSHION	4	EA	ARRAY TYPE "ADIEM"
CHANNELIZERS	35	EA	
PORTABLE CHANGEABLE MESSAGE SIGN	2	EA	

RELOCATE ENTRANCE

LOCATION	EA
"X1" 12+30	1

SUMMARY OF QUANTITIES

Q-1

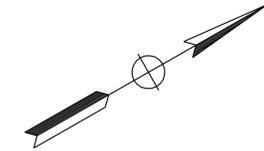
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	3.4	18	50
ART			12-01-10		
REGISTERED ELECTRICAL ENGINEER			DATE		
3-14-11			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

PROJECT NOTES:

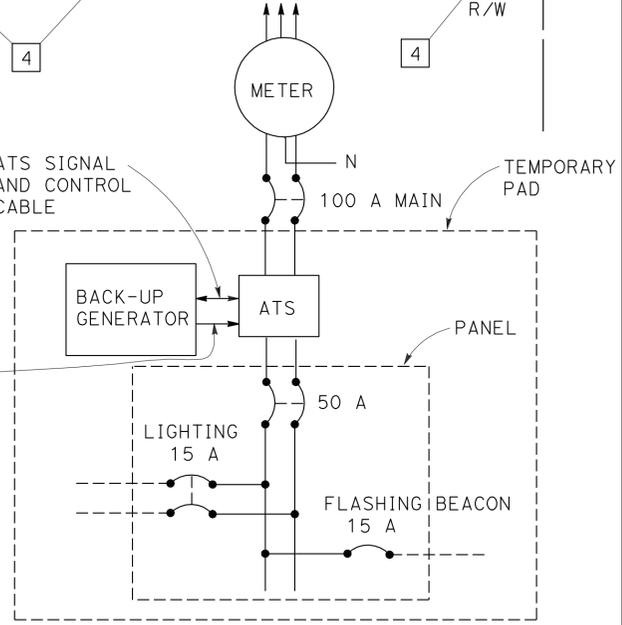
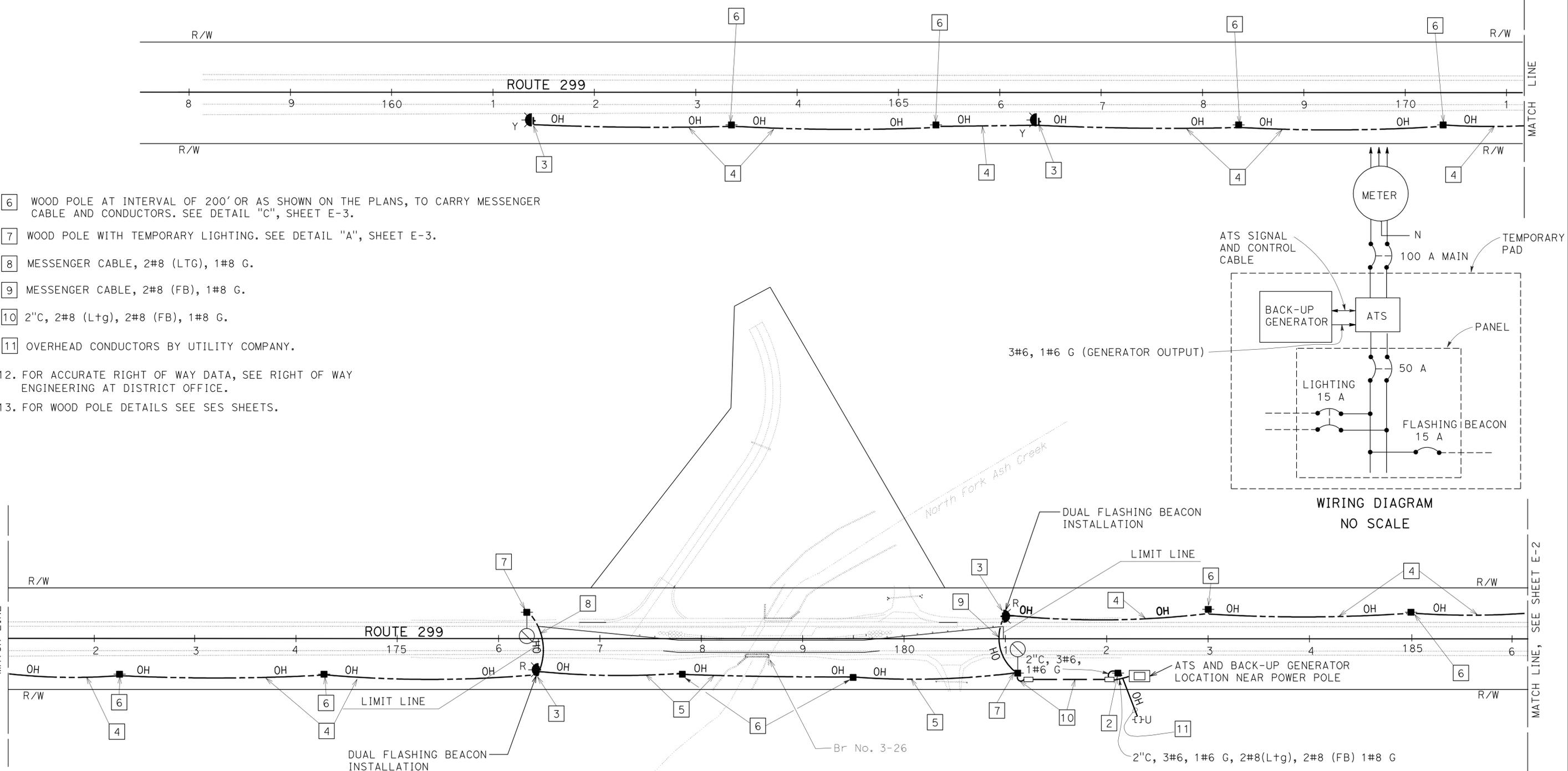
1. LOCATIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. 120/240 V, 3-wire, 1 ϕ , TYPE A SERVICE. SEE WIRING DIAGRAM AND DETAIL "D", SHEET E-3.
3. WOOD POLE WITH TEMPORARY FLASHING BEACON INSTALLATION. SEE DETAIL "B", SHEET E-3.
4. MESSENGER CABLE, 2#8 (FB), 1#8 G.
5. MESSENGER CABLE, 2#8 (LTG), 2#8 (FB), 1#8 G.

ABBREVIATIONS:

ATS AUTOMATIC TRANSFER SWITCH



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - ELECTRICAL DESIGN
 ARTURO ROBLES
 JIM HANNIGAN
 ROB STINGER
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13



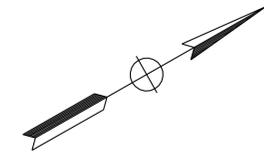
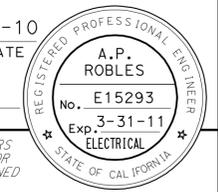
TEMPORARY LIGHTING SYSTEM

SCALE: 1" = 50'

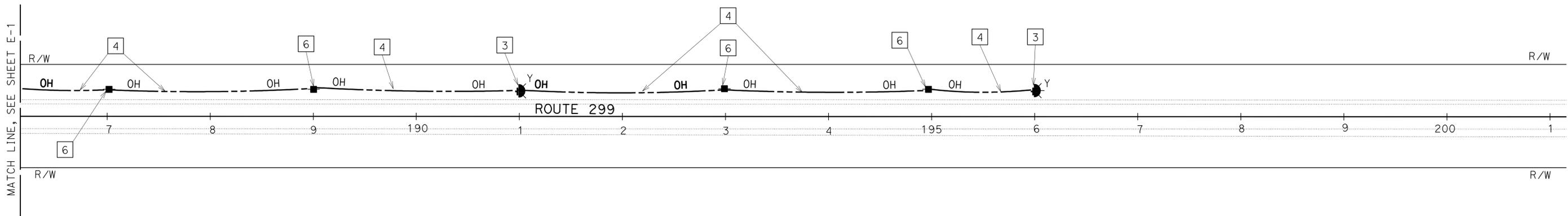
E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

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		ART 12-01-10			
		REGISTERED ELECTRICAL ENGINEER DATE			
		3-14-11			
		PLANS APPROVAL DATE			
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NOTE:
1. FOR ACCURATE RIGHT OF WAY DATA, SEE RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN
 FUNCTIONAL SUPERVISOR: ROB STINGER
 CALCULATED/DESIGNED BY: ARTURO ROBLES
 CHECKED BY: JIM HANNIGAN
 REVISED BY: DATE REVISIONS
 DISTRICT OFFICE: 12-01-10

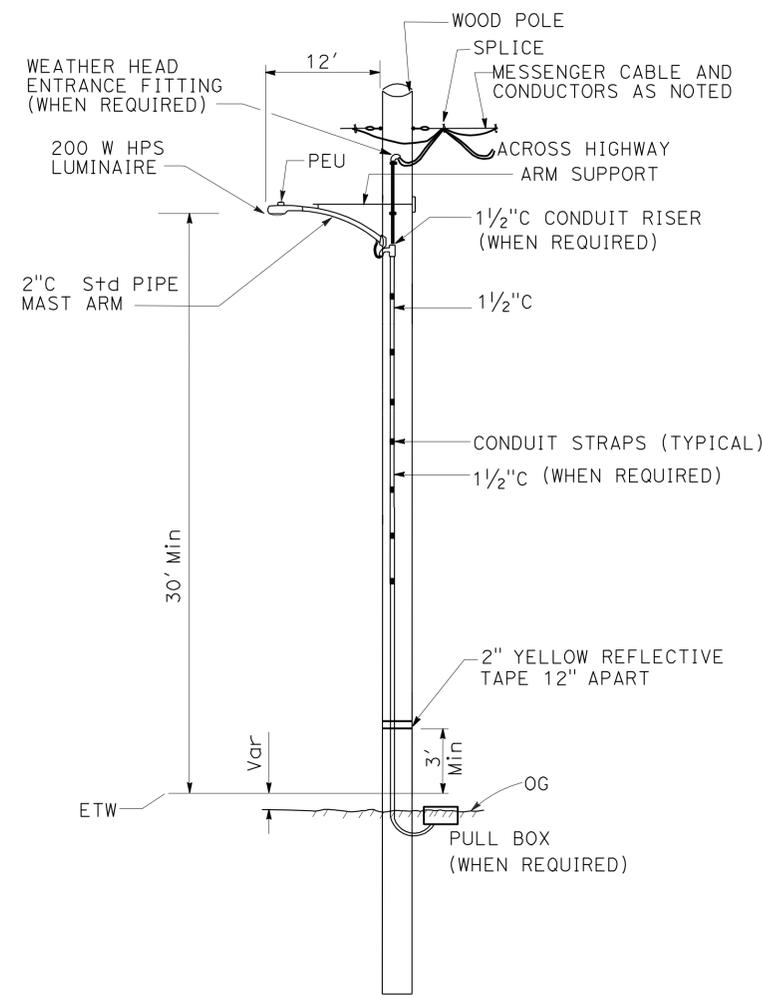
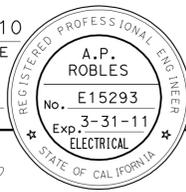
TEMPORARY LIGHTING SYSTEM

SCALE: 1" = 50'

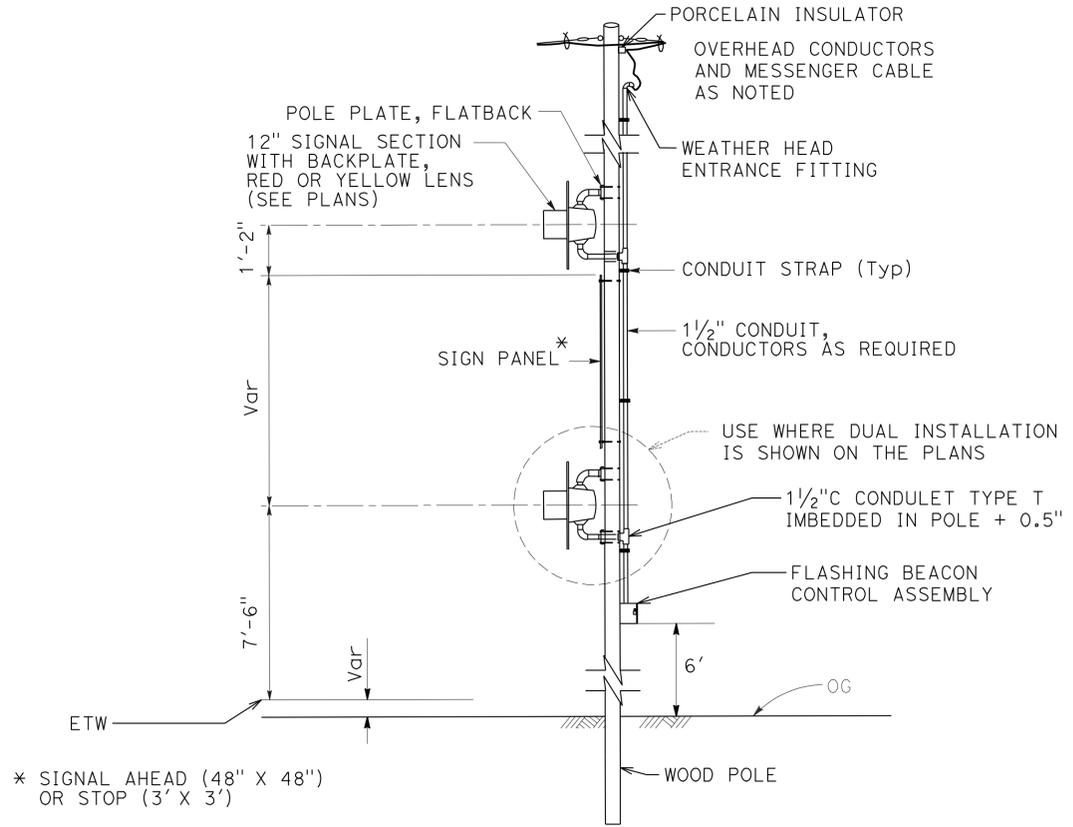
E-2

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

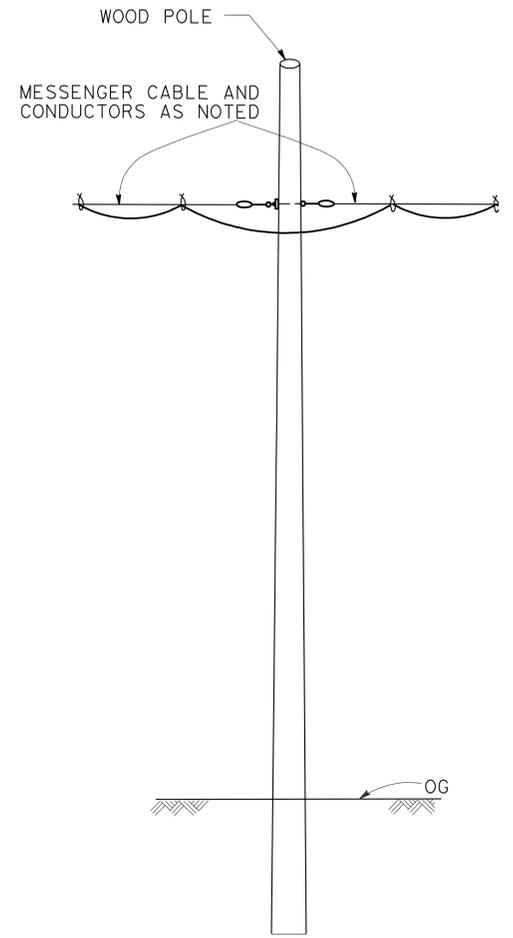
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ART			12-01-10		
REGISTERED ELECTRICAL ENGINEER			DATE		
3-14-11			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



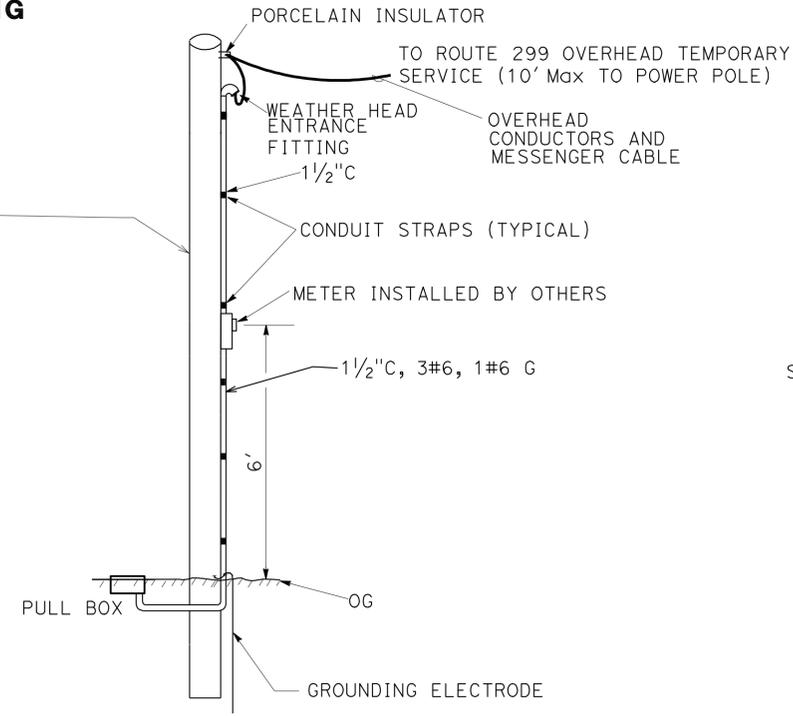
TEMPORARY LIGHTING INSTALLATION
DETAIL A



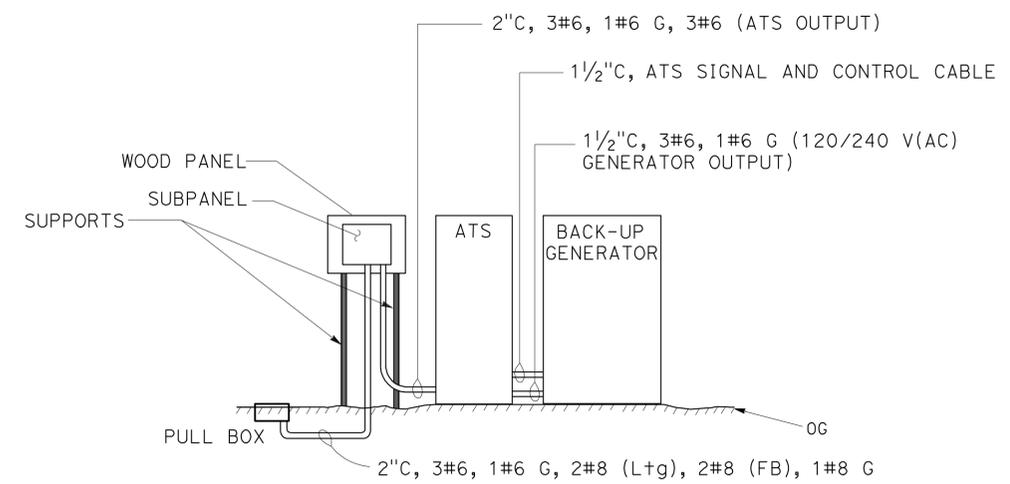
TEMPORARY FLASHING BEACON INSTALLATION
DETAIL B



TEMPORARY LIGHTING INSTALLATION
DETAIL C



TEMPORARY SERVICE INSTALLATION
DETAIL D



ATS AND BACK-UP GENERATOR
DETAIL E

TEMPORARY LIGHTING SYSTEM

NO SCALE

E-3

REVISOR	DATE	REVISION
ARTURO ROBLES	JIM HANNIGAN	
FUNCTIONAL SUPERVISOR	ROB STINGER	
CALCULATED/DESIGNED BY	CHECKED BY	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		
Electrical DESIGN		

S:\APE\Submittal\02-2c2211\020000165ua003.dgn

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DGN FILE => 0200000165ua003.dgn

RELATIVE BORDER SCALE IS IN INCHES

UNIT 0147

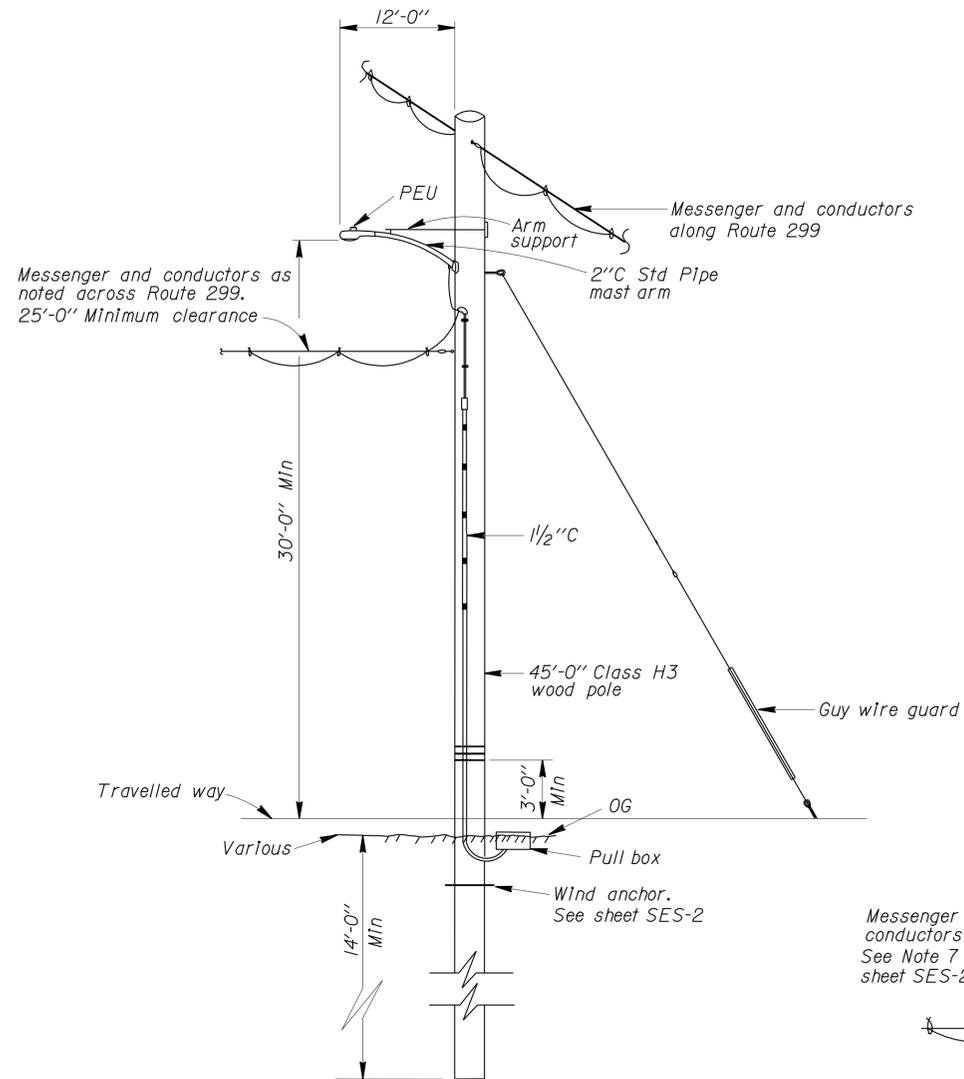
PROJECT NUMBER & PHASE

02000001651

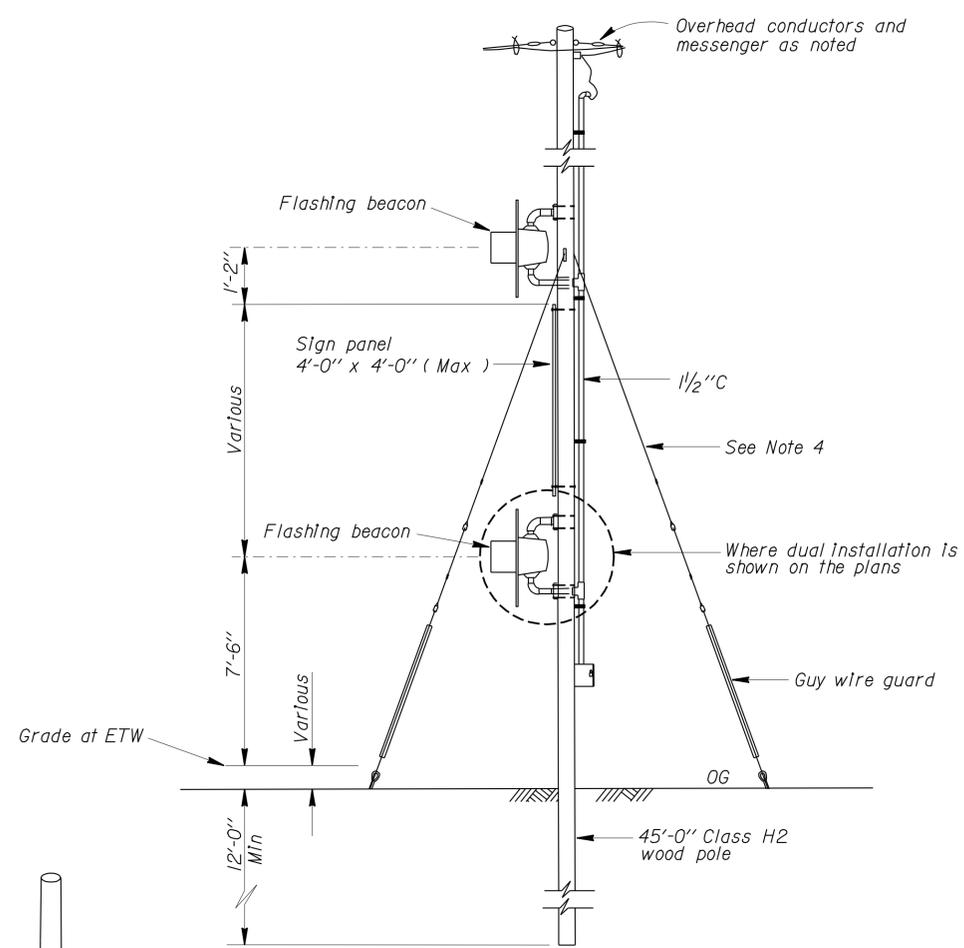
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

LAST REVISION | DATE PLOTTED => 18-MAR-2011
02-00-00 TIME PLOTTED => 14:29

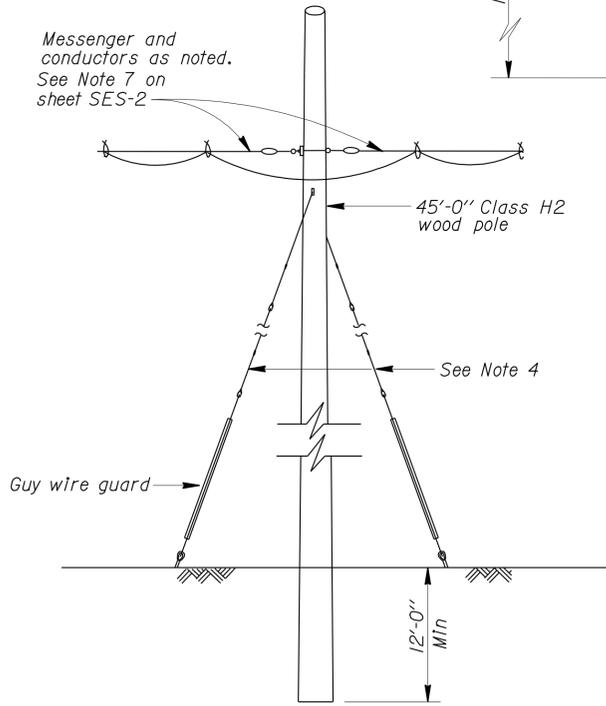
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02	Mod	299	3.4	21	50
			3/15/11	REGISTERED CIVIL ENGINEER DATE	
			3-14-11	PLANS APPROVAL DATE	
REGISTERED PROFESSIONAL ENGINEER TAMARA MARCHENKO No. C76837 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA					
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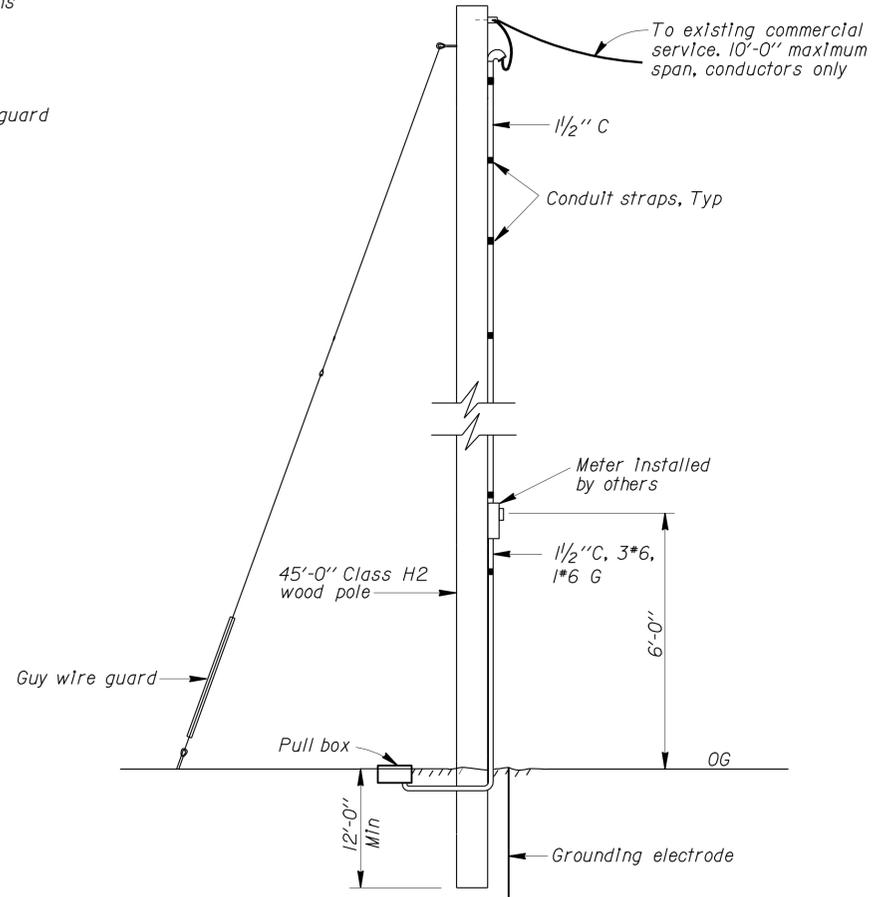
TEMPORARY LIGHTING INSTALLATION
See "DETAIL A", sheet E-3



TEMPORARY FLASHING BEACON INSTALLATION
See "DETAIL B", sheet E-3



TEMPORARY SERVICE INSTALLATION ALONG ROUTE 299
See "DETAIL C", sheet E-3



TEMPORARY SERVICE CONNECTION TO EXISTING SERVICE
See "DETAIL D", sheet E-3

- NOTES:**
1. For general notes and installation details, see sheet SES-2.
 2. For attachment details, see electrical sheet E-3.
 3. See "CROSSBAR DETAIL" on sheet SES-2.
 4. Guy wires shall be installed in perpendicular direction to conductors line direction otherwise see Note 3 on sheet SES-2.

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

BRANCH CHIEF *Jeffrey B. Woody*

DESIGN	BY TAMARA MARCHENKO	CHECKED STAN JOHNSON
DETAILS	BY R. YEE	CHECKED V. LOPEZ
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

BRIDGE NO.
POST MILE

TEMPORARY LIGHTING SYSTEM
WOOD POLE DETAILS

SES-1

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3619
PROJECT NUMBER & PHASE: 0200000165

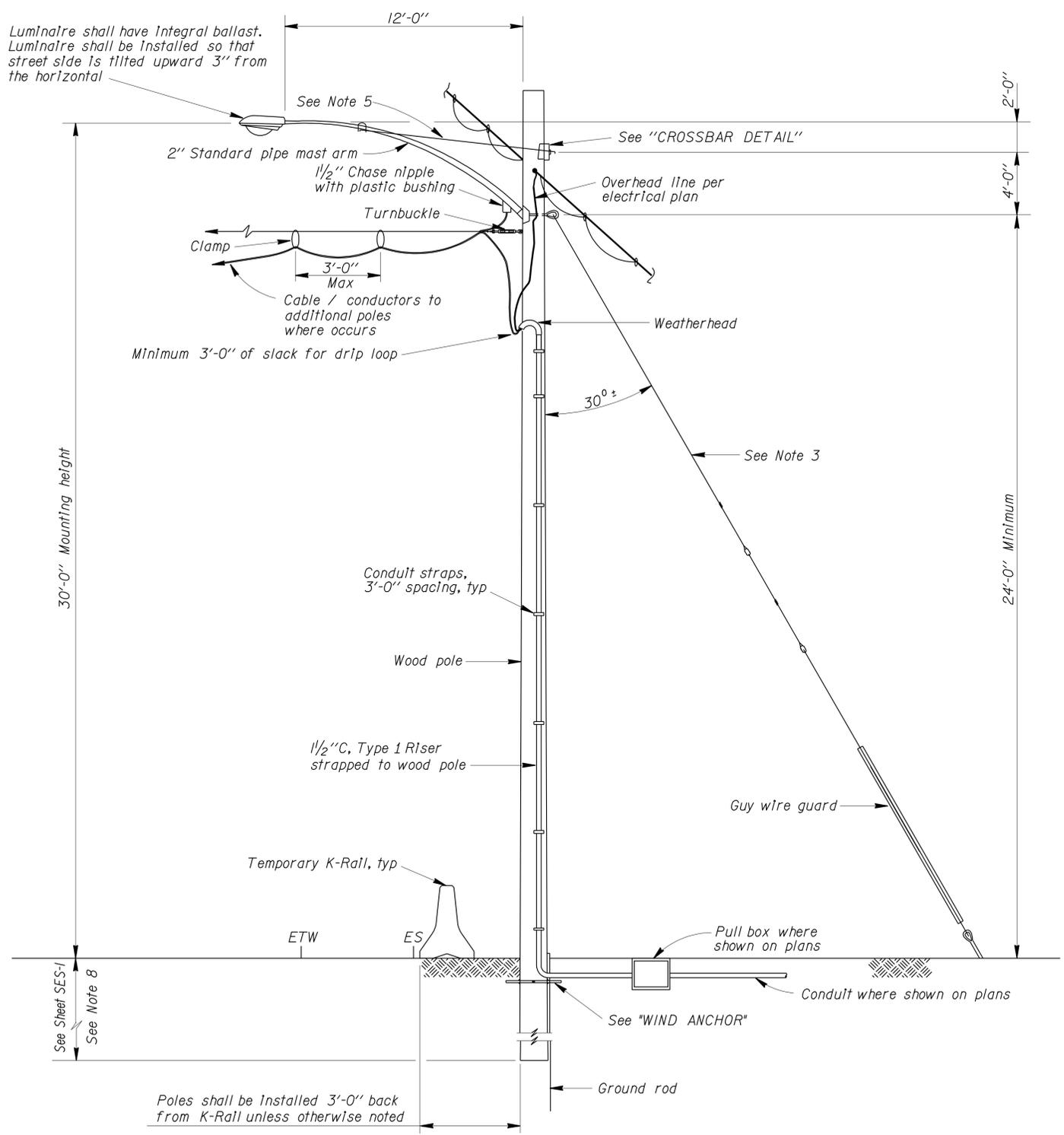
CONTRACT NO.: 02-2C2211

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3/14/11		

FILE => /2011sd/02-2C2211/ses1.dgn

USERNAME => hrt1ght DATE PLOTTED => 18-MAR-2011 TIME PLOTTED => 10:22



TYPICAL LUMINAIRE MOUNTING DETAIL ON WOOD POLE

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

BRANCH CHIEF *Jeffrey B. Woody*

DESIGN	BY TAMARA MARCHENKO	CHECKED STAN JOHNSON
DETAILS	BY R. YEE	CHECKED V. LOPEZ
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH

NO SCALE BRIDGE NO. POST MILE

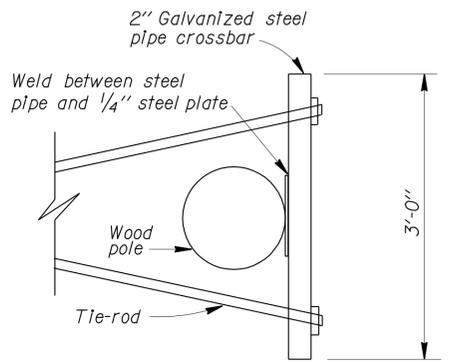
TEMPORARY SIGNAL SYSTEM WOOD POLE DETAILS

SES-2

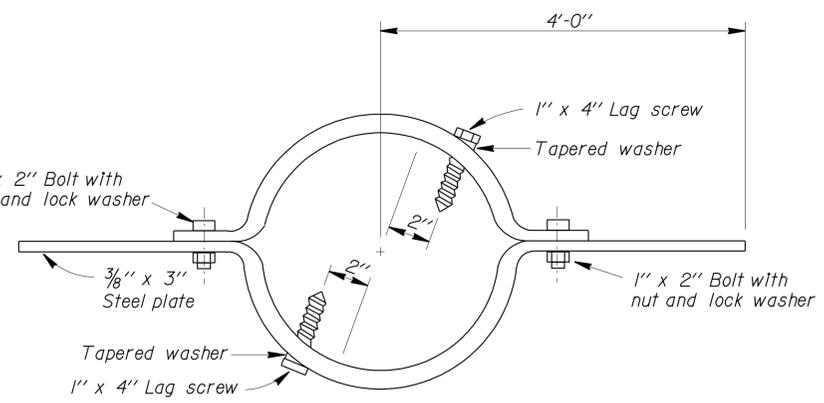
TABLE 1 - MESSENGER WIRES AND GUY WIRES

DIAMETER SHOWN	NUMBER OF STRANDS	GRADE	MINIMUM BREAKING STRENGTH (lbs)
1/4"	3	Utility	3,150
5/16"	7	Utility	6,000
3/8"	7	Utility	11,500
7/16"	7	Utility	18,000
1/2"	7	Utility	25,000

Messenger wires: ASTM Designation A475-03, "Standard Specification For Zinc-Coated Steel Wire Strand". Weight of zinc coating Class B or Class C. Temporary messenger wires may use Class A.

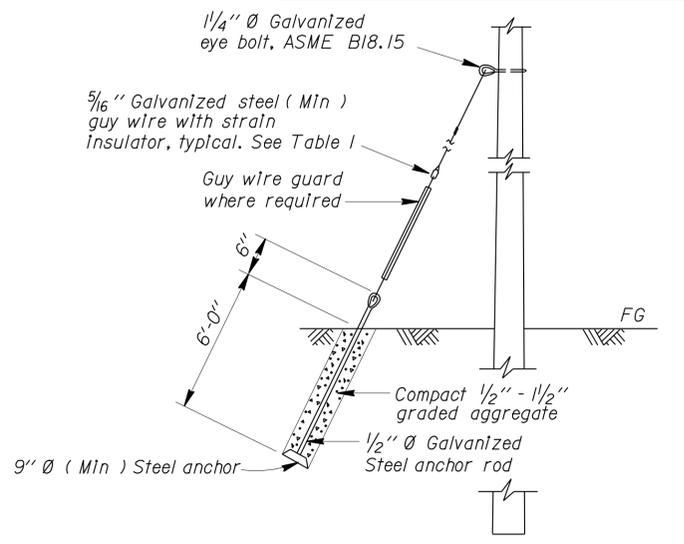


CROSSBAR DETAIL



WIND ANCHOR

Note: Install perpendicular to mast arms and 2'-0" minimum below grade



GUY WIRE INSTALLATION DETAIL

GENERAL NOTES:

- All overhead cables shall be slack spanned with 10'-0" along Route 299 and minimum 25'-0" overhead clearance, unless otherwise noted.
- No spare conductors required except as noted.
- Wood poles shall be stabilized using guy wire, breast blocks or racks at each corner, dead end, drop or line deviation more than 15° from straight line. The direction of the guy wire shall counteract the resultant unbalanced horizontal force of 3600 lbs (Min) applied to the pole. Where space or conflict prevents guy wire installation, a diagonal brace shall be used. The brace shall be wood and shall be connected to the pole by the means to satisfy structural and electrical provision requirements. The direction of the brace shall counteract the resultant unbalanced force applied to the pole.
- Cable shall be suspended from span-wire as follows:
A) Main run 3/8" span-wire with 4.5% - 5% maximum sag. See Table 1.
- Pipe tie-rods shall be 3/8" span-wire for mast arms with 5/8" round bolt tips on each end.
- Overhead line construction not specifically covered here on shall conform with the provisions of General Order No.95 of Public Utilities Commission.
- Maximum span = 200' with total weight of overhead conductors and messenger wires 0.5 lbs per linear feet (Max).
- If pole is located on a steep slope, add 2 feet extra for embedment.

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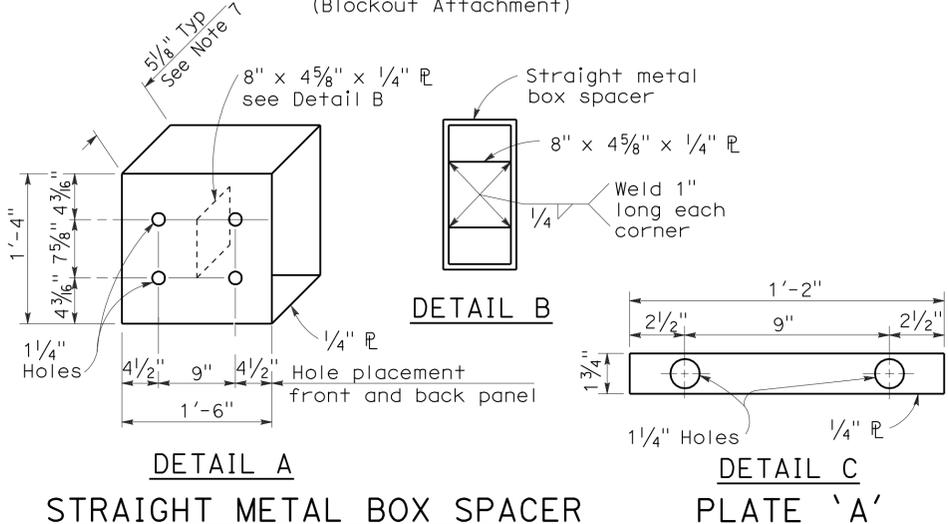
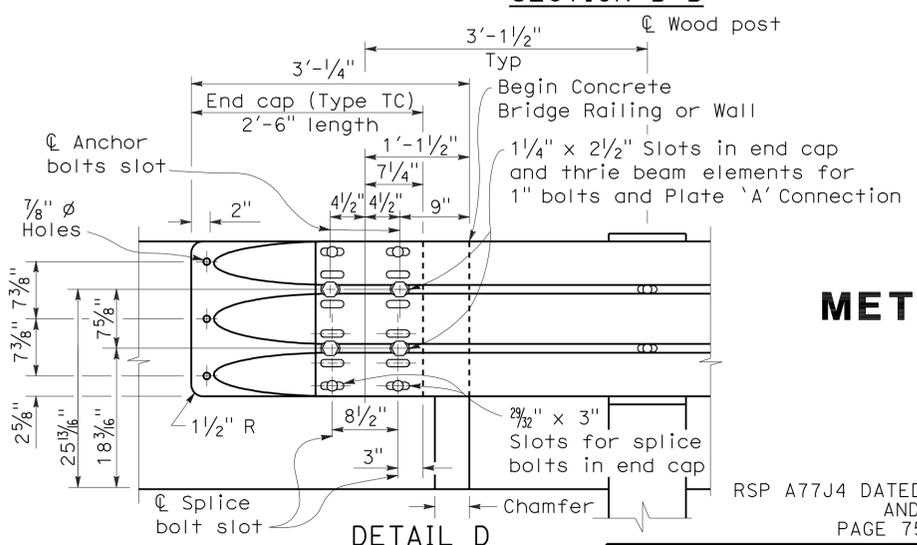
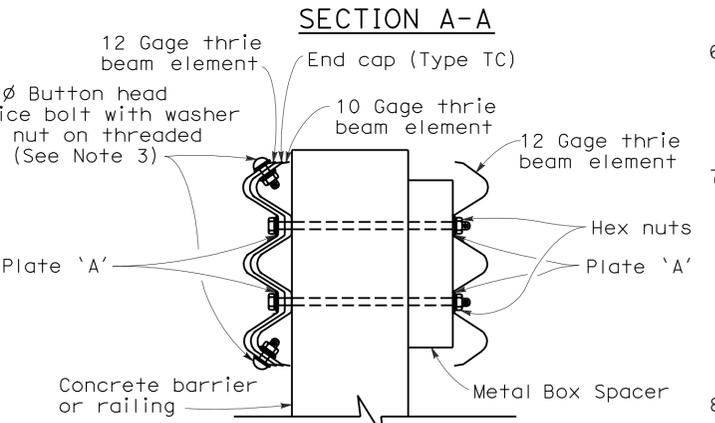
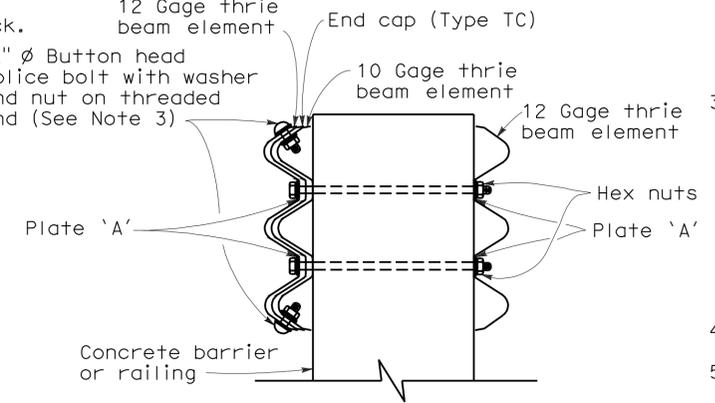
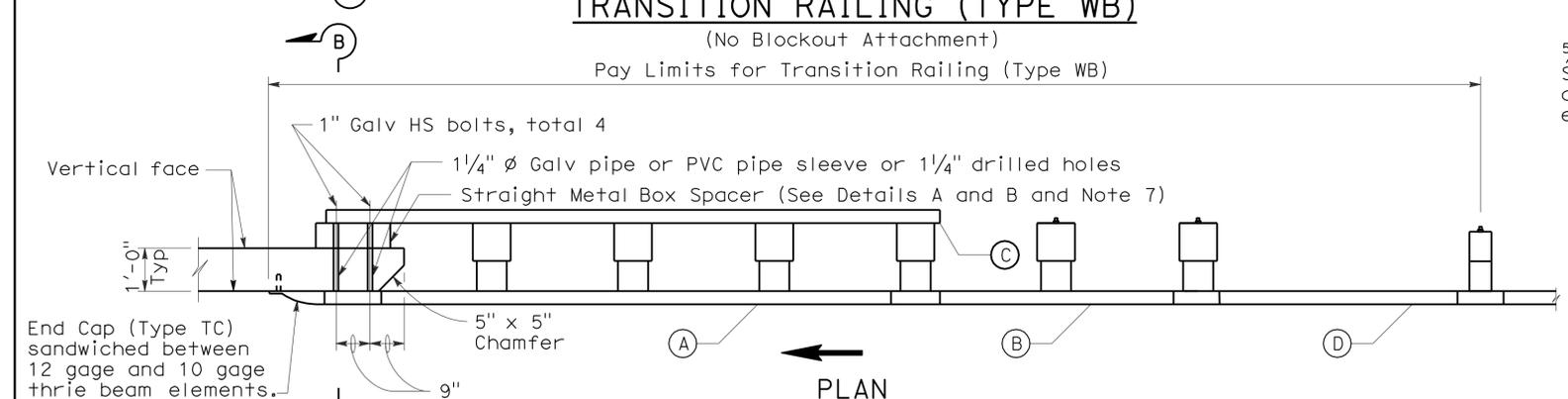
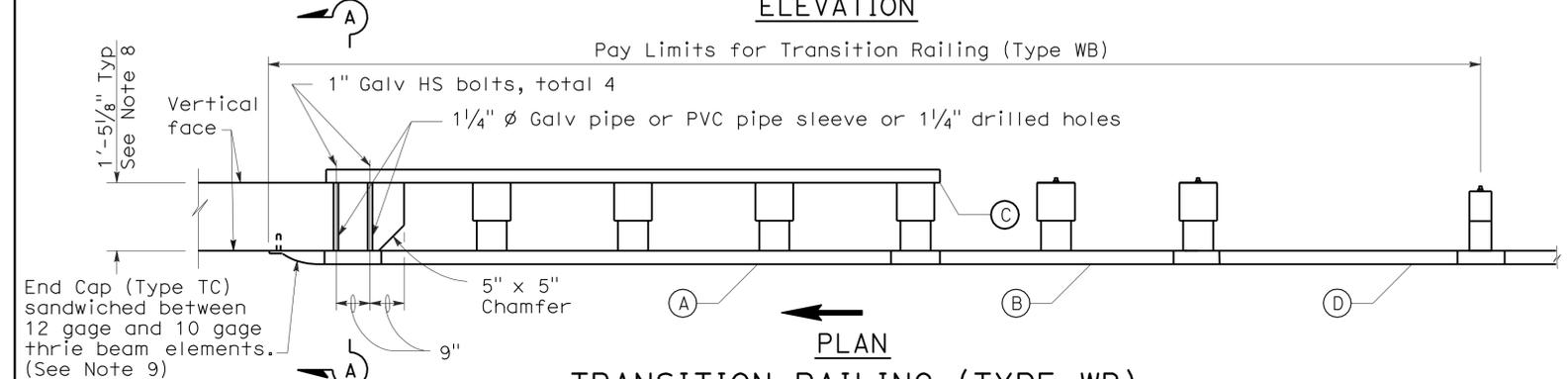
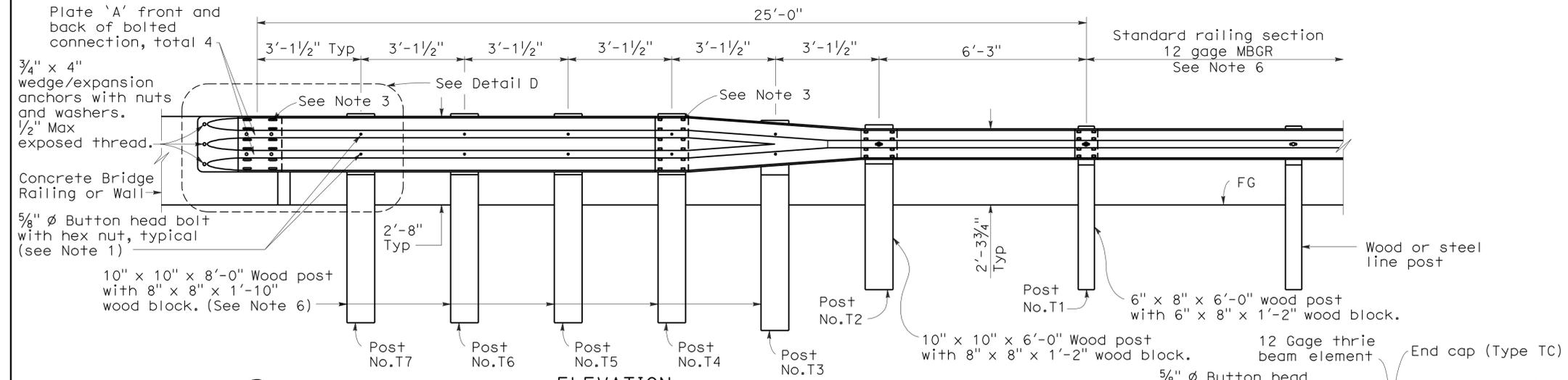
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	3.4	23	50

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



- 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:** To accompany plans dated 3-14-11
1. Use 5/8" ϕ Button head bolts and hex nuts for connections to posts. No washer on rail face for bolted connections to post.
 2. 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.
 3. 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.
 4. Direction of adjacent traffic indicated by \rightarrow .
 5. The top elevation of Post Nos. T2 through T7 shall not project more than 1" above the top elevation of the rail element.
 6. 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.
 7. 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.
 8. 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.
 9. 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.

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.

REVISED STANDARD PLAN RSP A77J4

2006 REVISED STANDARD PLAN RSP A77J4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	3.4	24	50

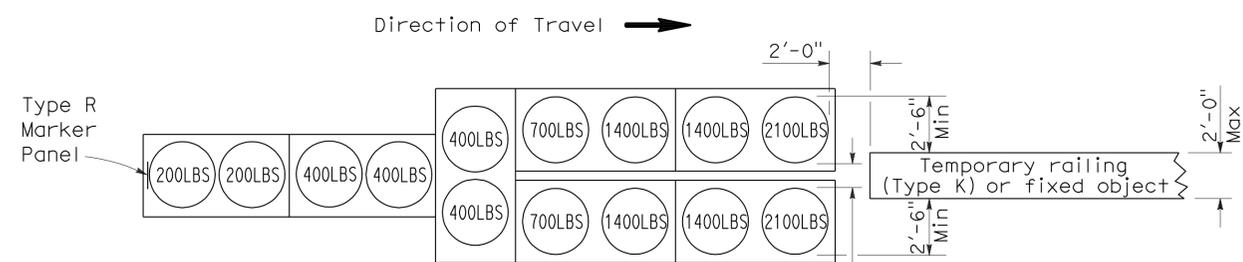
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

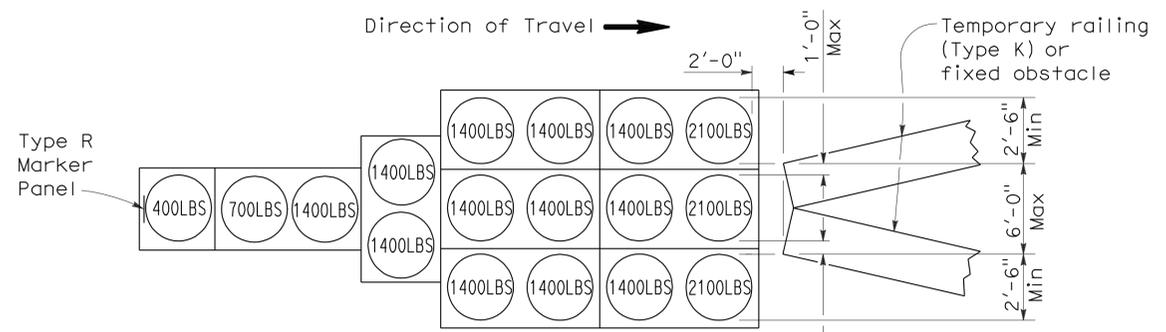
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To accompany plans dated 3-14-11



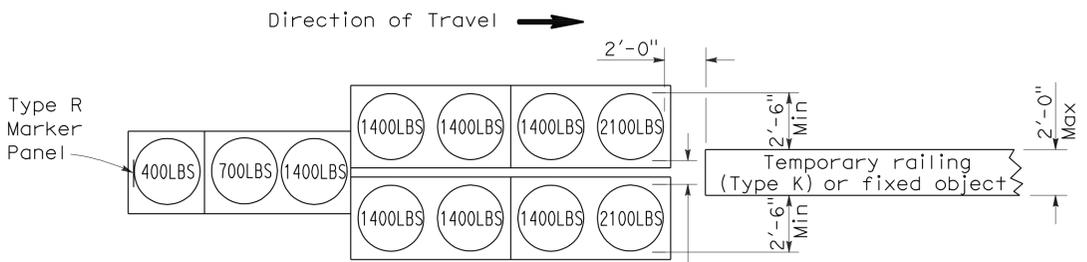
ARRAY 'TU14'

Approach speed 45 mph or more



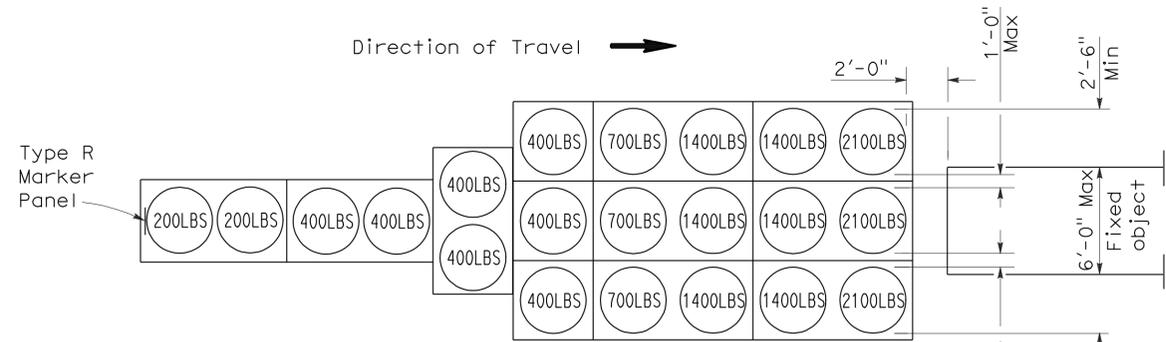
ARRAY 'TU17'

Approach speed less than 45 mph



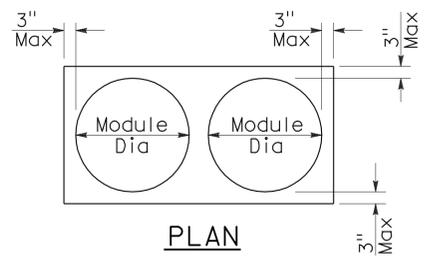
ARRAY 'TU11'

Approach speed less than 45 mph

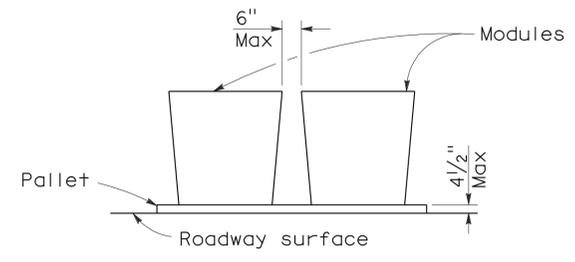


ARRAY 'TU21'

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

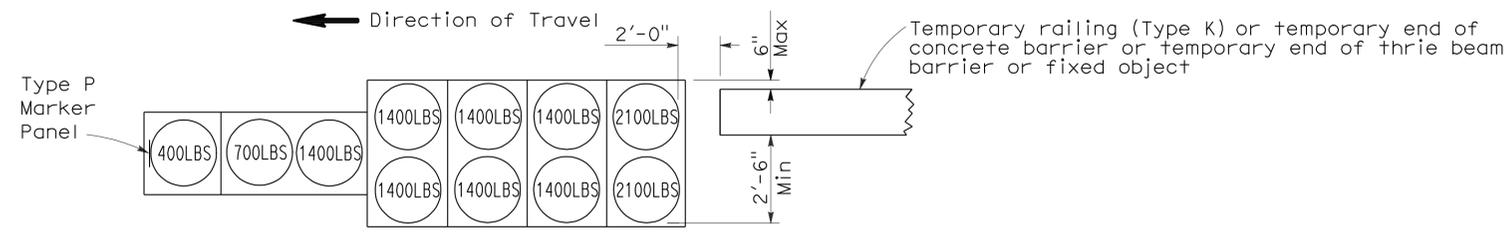
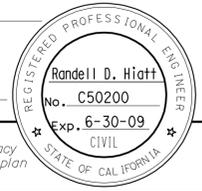
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	3.4	25	50

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.

To accompany plans dated 3-14-11

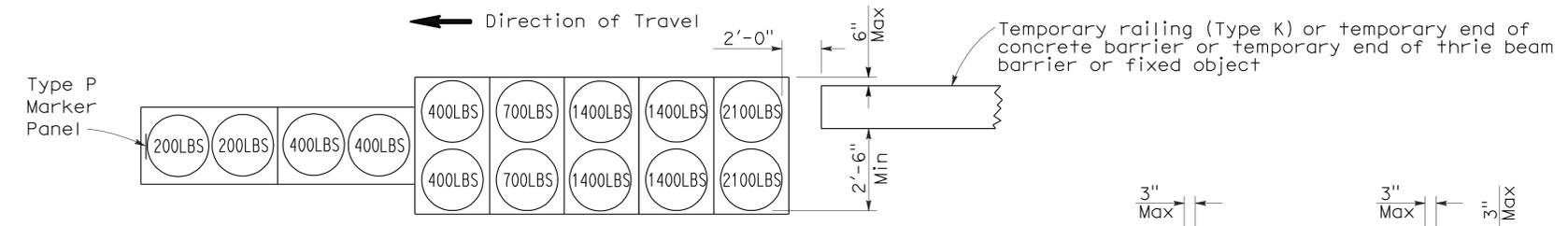


Direction of Travel ←

Direction of Travel →

ARRAY 'TB11'

Approach speed less than 45 mph

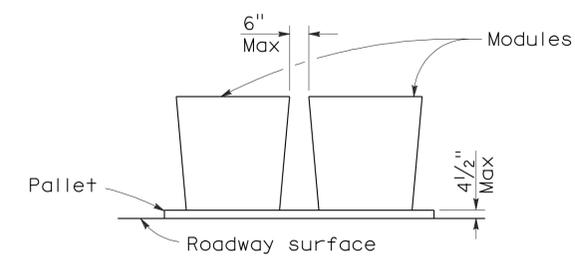
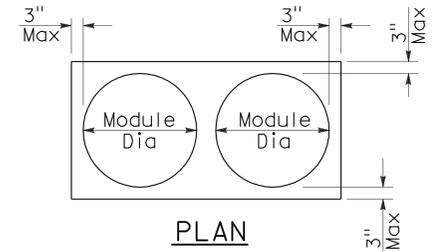


Direction of Travel ←

Direction of Travel →

ARRAY 'TB14'

Approach speed 45 mph or more



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

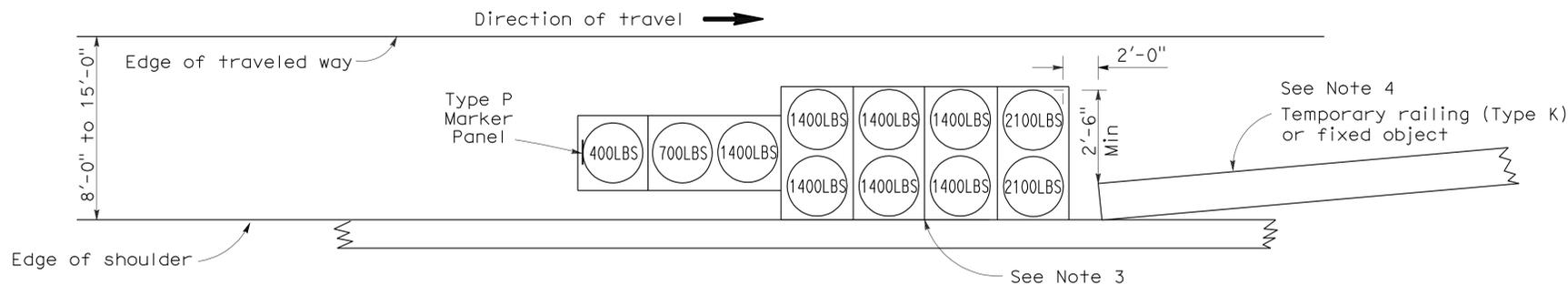
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	3.4	26	50

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

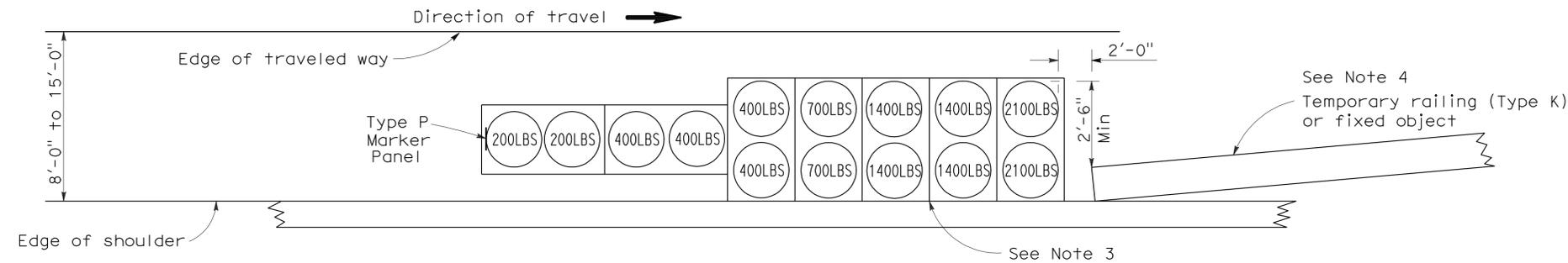
June 6, 2008
PLANS APPROVAL DATE

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.

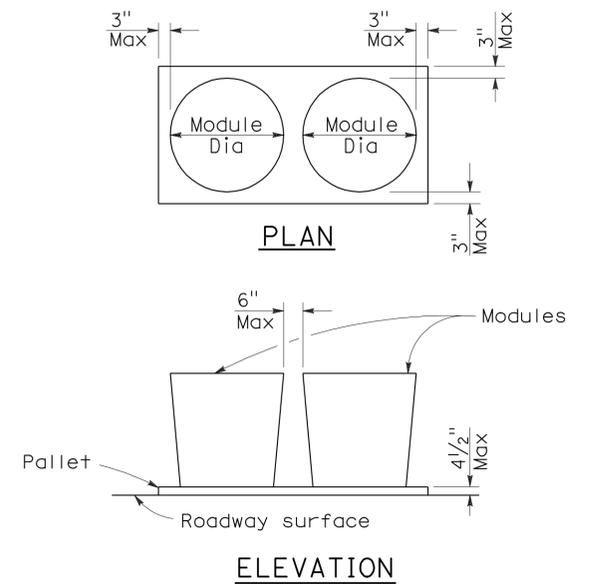
To accompany plans dated 3-14-11



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:

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. 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.
4. 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.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. 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.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. 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

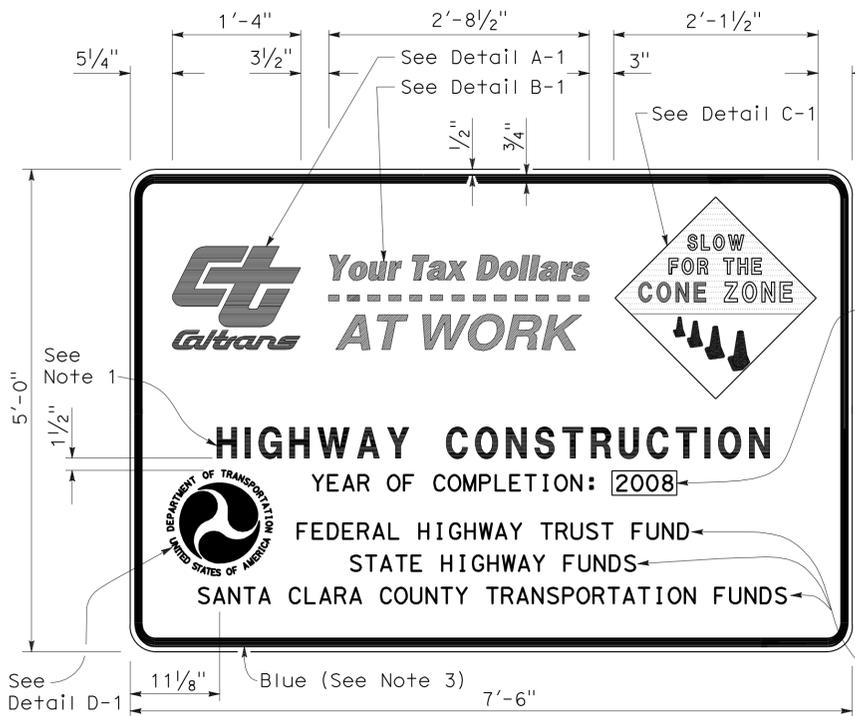
2006 REVISED STANDARD PLAN RSP T2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	3.4	27	50

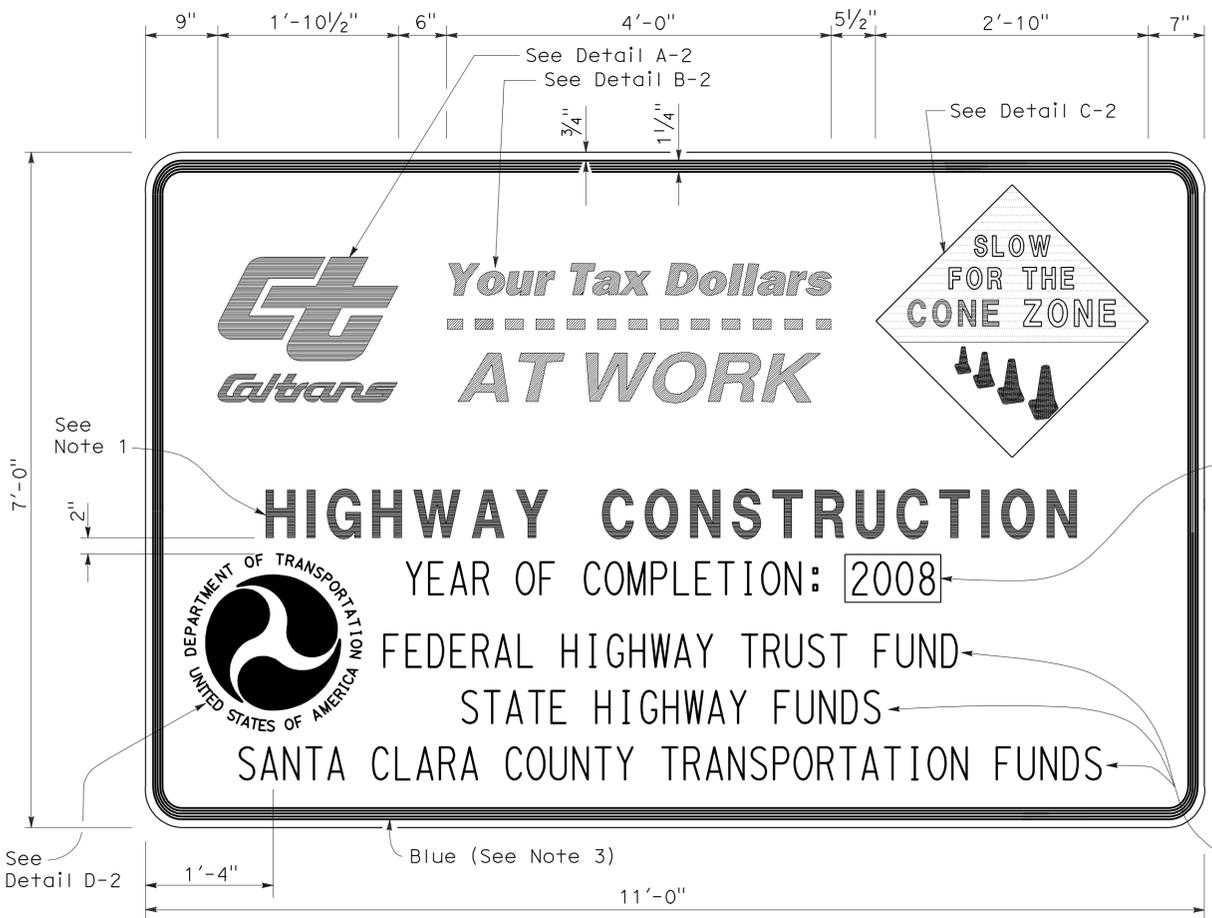
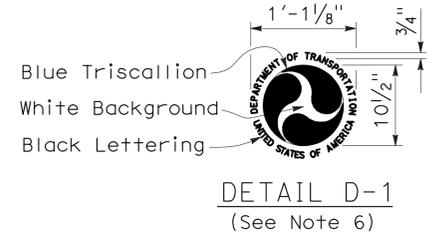
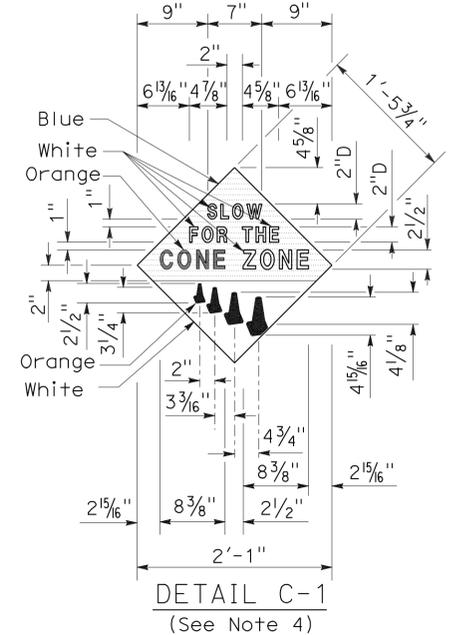
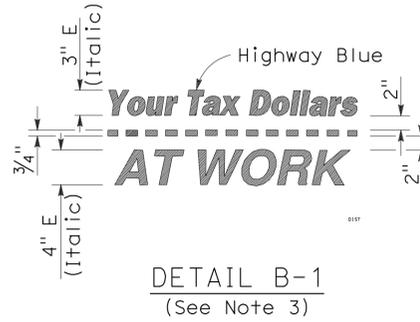

 REGISTERED CIVIL ENGINEER
 November 17, 2006
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.


 STATE OF CALIFORNIA

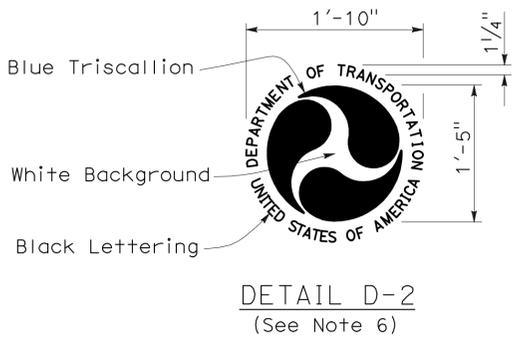
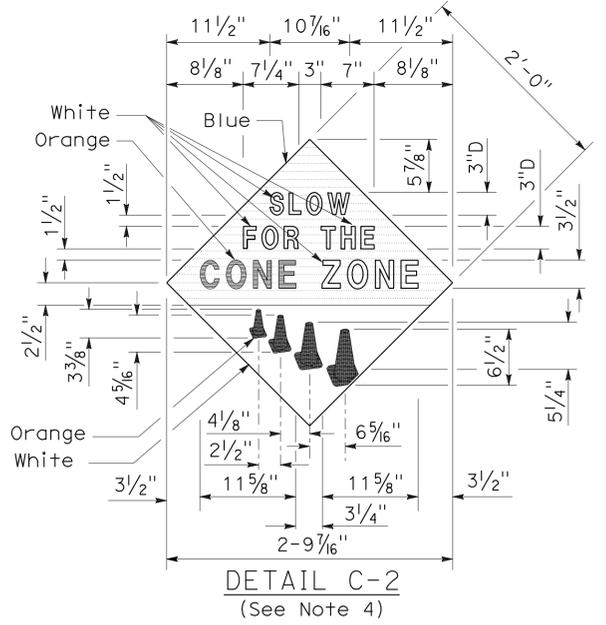
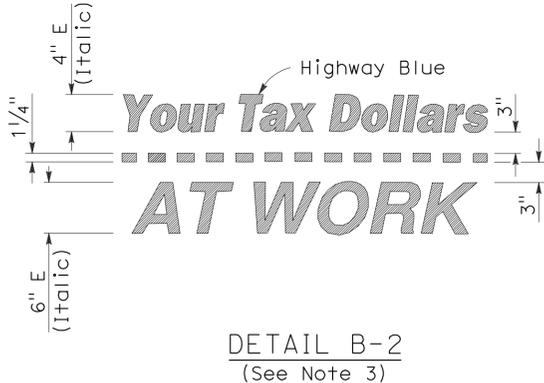
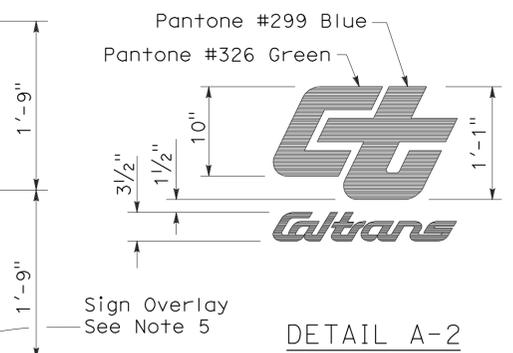
To accompany plans dated 3-14-11



TYPE 1



TYPE 2



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS

NO SCALE

RSP T7 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN T7
 DATED MAY 1, 2006 - PAGE 217 OF THE STANDARD PLANS BOOK DATED MAY 2006.

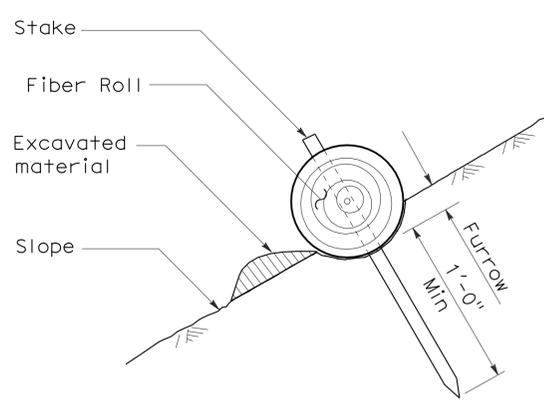
REVISED STANDARD PLAN RSP T7

2006 REVISED STANDARD PLAN RSP T7

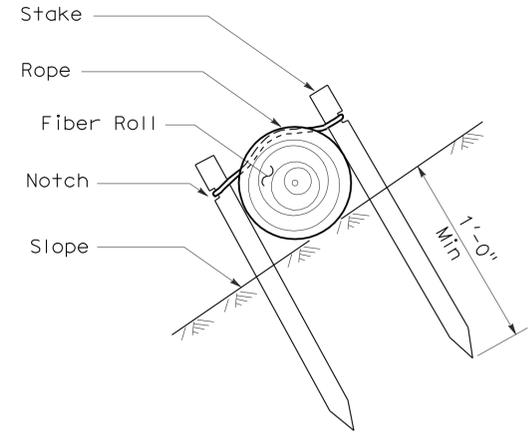
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	3.4	28	50

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.

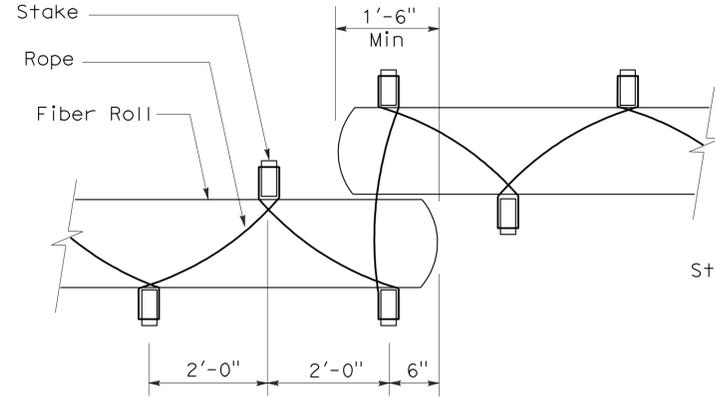
To accompany plans dated 3-14-11



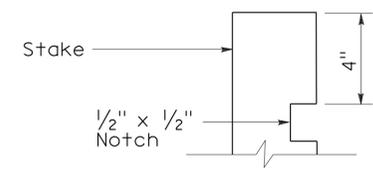
SECTION
TEMPORARY FIBER ROLL (TYPE 1)



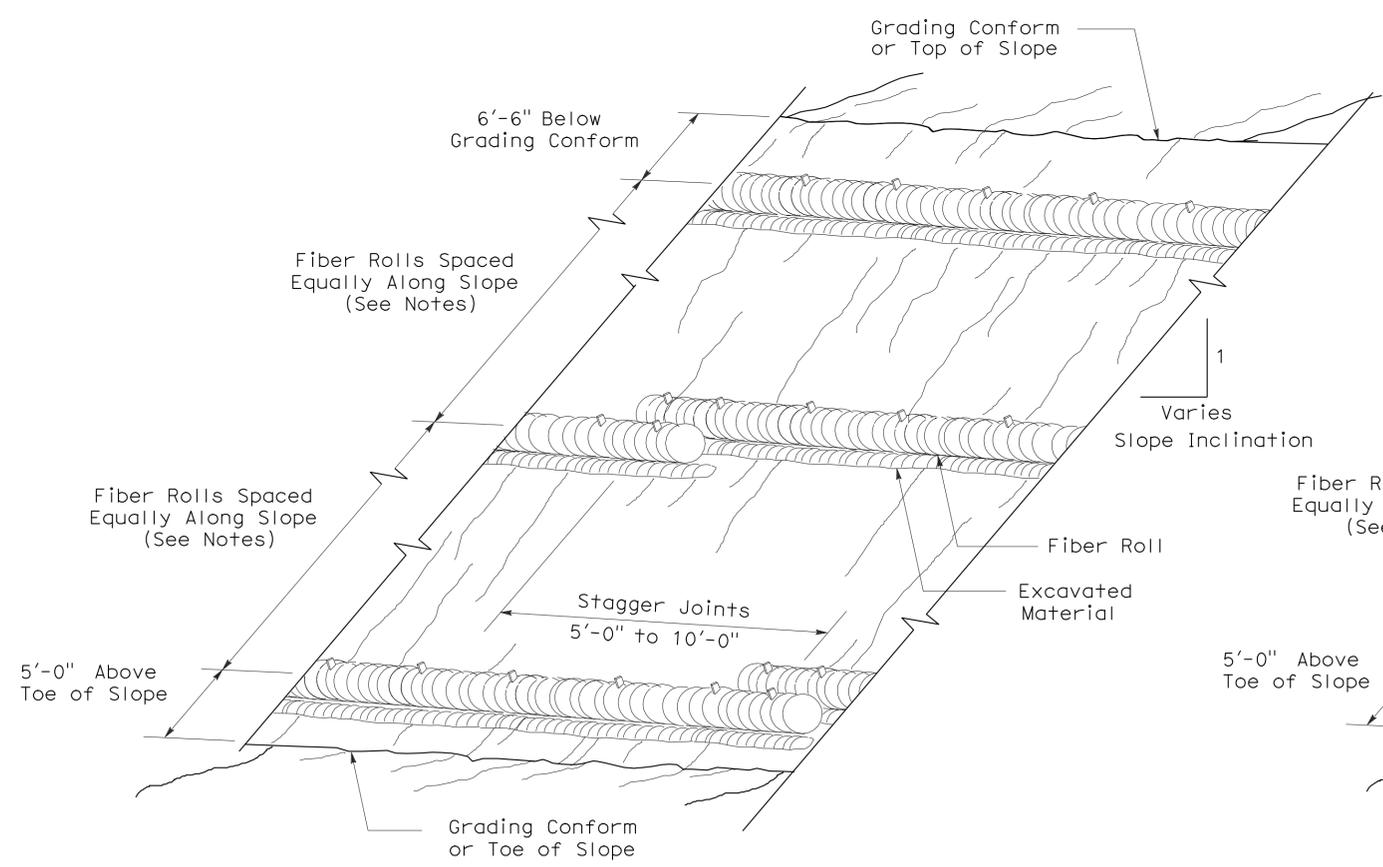
SECTION
TEMPORARY FIBER ROLL (TYPE 2)



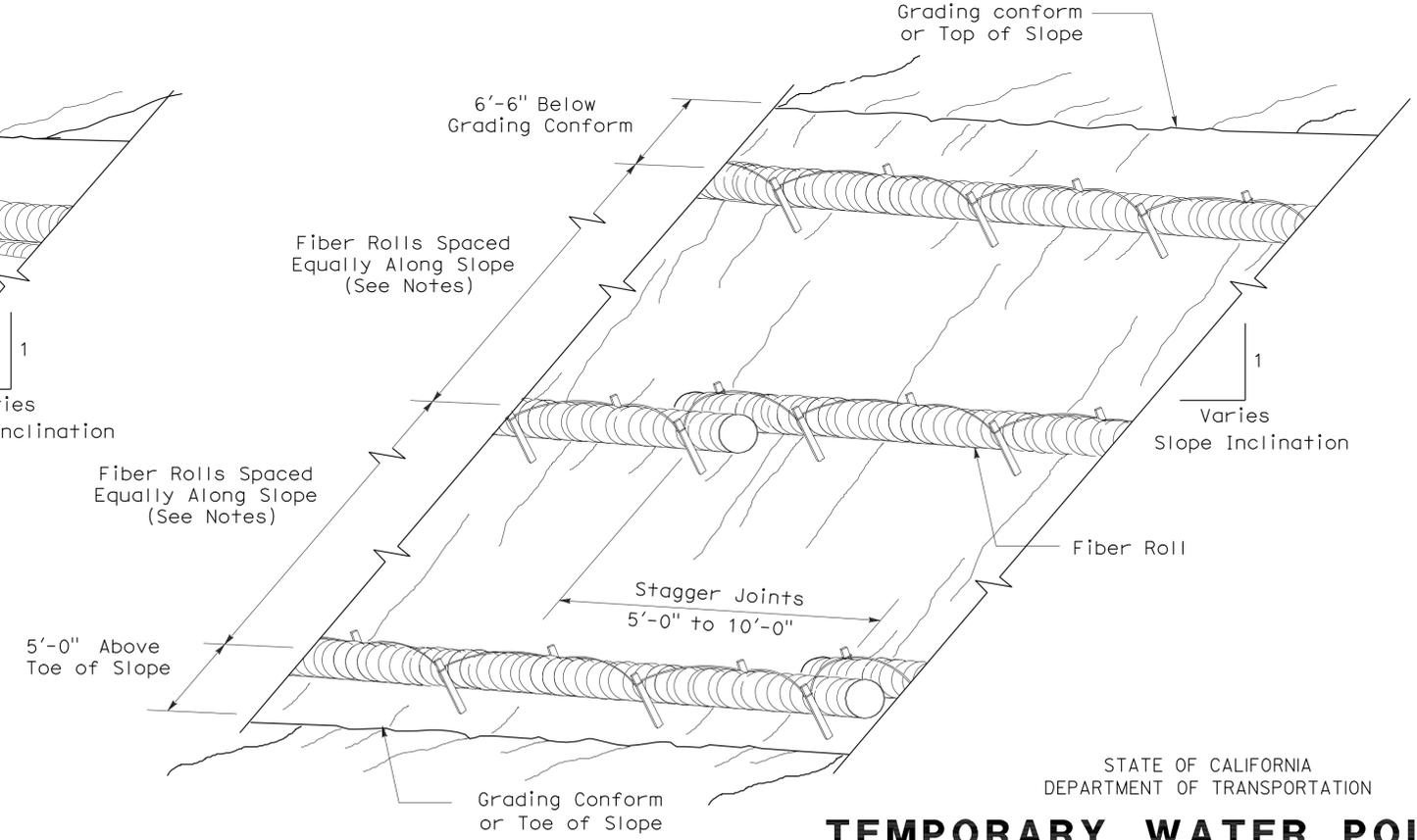
PLAN
ELEVATION
STAKE NOTCH DETAIL



- 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
02	Mod	299	3.4	29	50

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT

April 3, 2009
 PLANS APPROVAL DATE

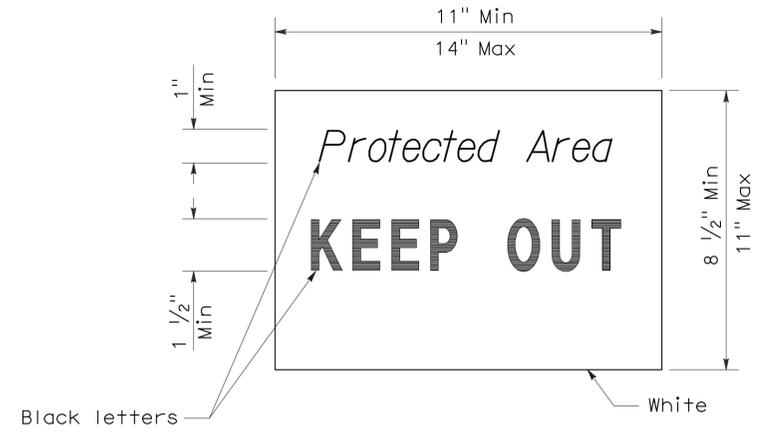
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 Signature
 11-30-10
 Renewal Date
 2-25-09
 Date

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.

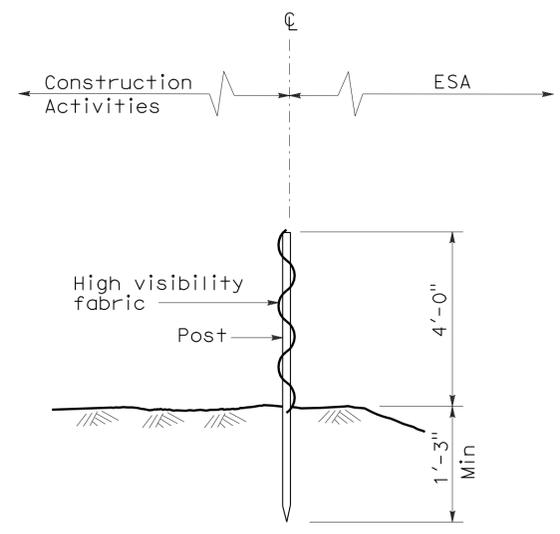
To accompany plans dated 3-14-11

NOTE:

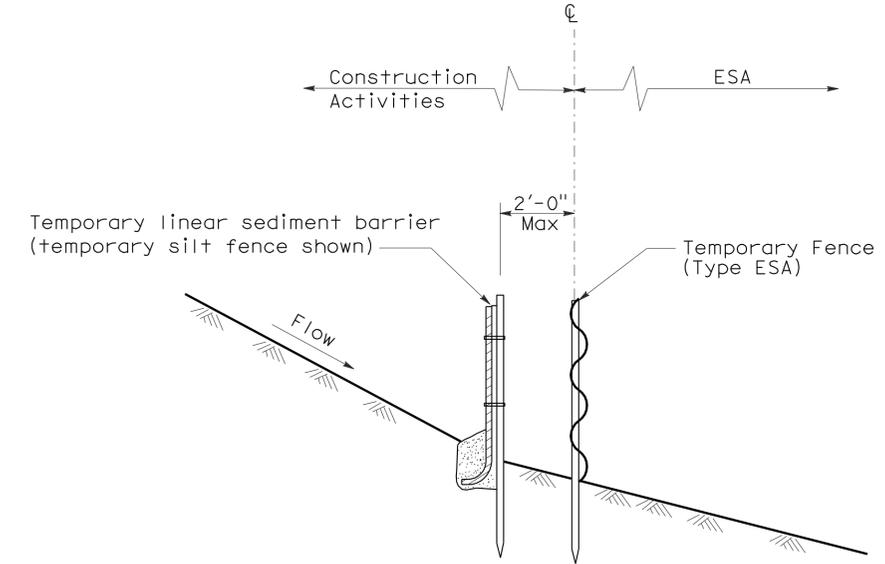
1. Temporary silt fence and temporary straw bale barrier shown for reference purposes only.



SIGN DETAIL

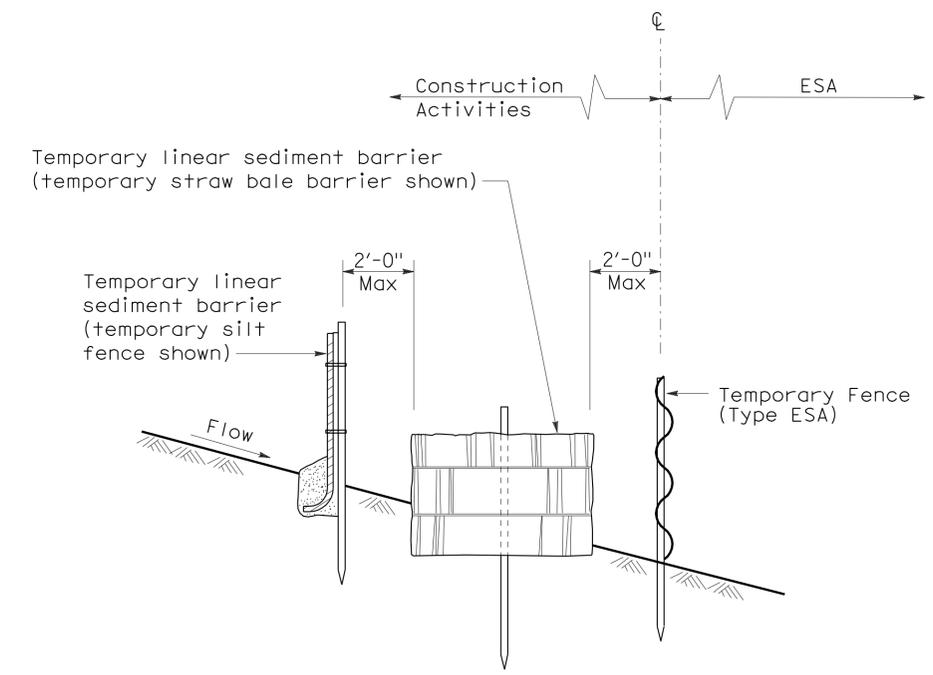


SECTION TEMPORARY FENCE (TYPE ESA)



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)

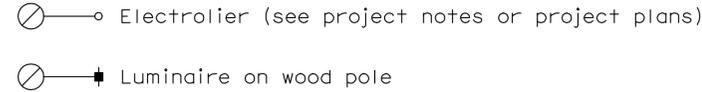
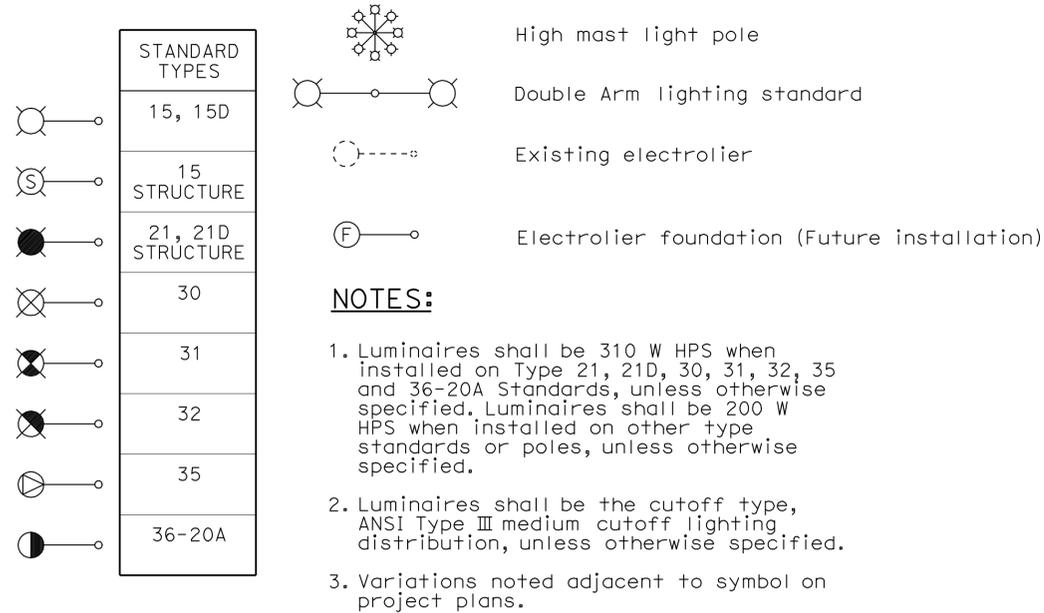
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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.

ELECTROLIERS



STANDARD NOTES:

- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH** Detector handhole.
- FA** Foundation to be abandoned.
- IS** Install sign on signal mast arm.
- NS** No slip base on standard.
- PEC** Photoelectric control.
- PEU** Photoelectric unit.
- RC** Equipment or material to be removed and become the property of the Contractor.
- RE** Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL** Relocate equipment.
- RR** Remove and reuse equipment.
- RS** Remove and salvage equipment.
- SC** Splice new to existing conductors.
- SD** Service disconnect.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, top attachment
MAS-4B	mas-4B	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4C	mas-4C	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, top attachment
MAS-5B	mas-5B	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL	rl	Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	3.4	30	50

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

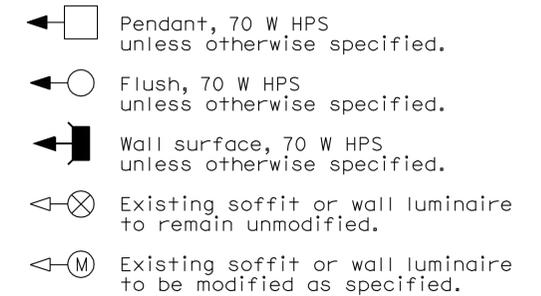
October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
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 3-14-11

SOFFIT AND WALL MOUNTED LUMINAIRES



NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	3.4	31	50

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

CONDUIT

PROPOSED	EXISTING	
		Lighting Conduit, unless otherwise indicated or noted
		Traffic signal conduit
		Communication conduit
		Telephone conduit
		Fire alarm conduit
		Fiber optic conduit
		Conduit termination
		Conduit riser in/on structure or service pole

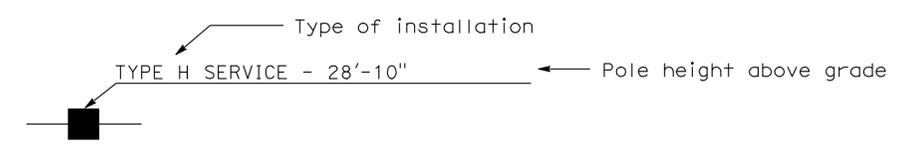
SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" indicates all non-arrow sections louvered "LG" indicates louvered green section only "PV" indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

SERVICE EQUIPMENT

PROPOSED	EXISTING	
		Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.
- Signal indication shall be LED.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(SYMBOLS AND ABBREVIATIONS)
 NO SCALE

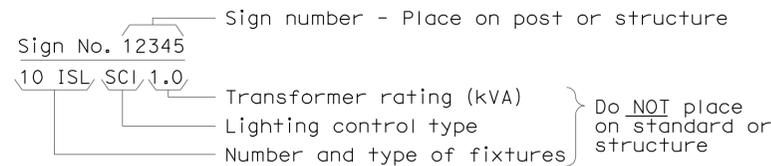
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

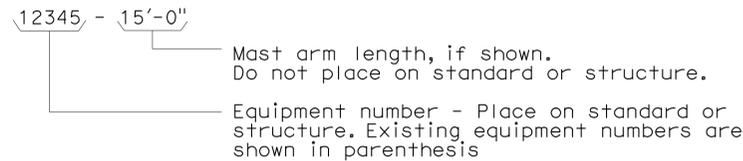
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

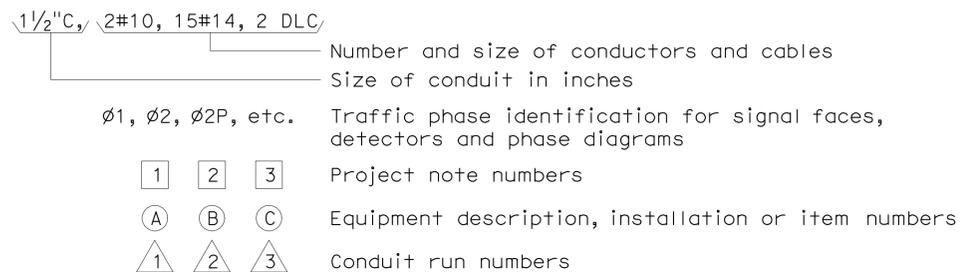
ILLUMINATED SIGN IDENTIFICATION NUMBER:



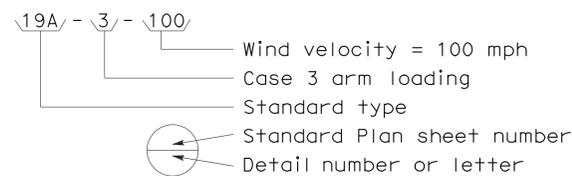
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



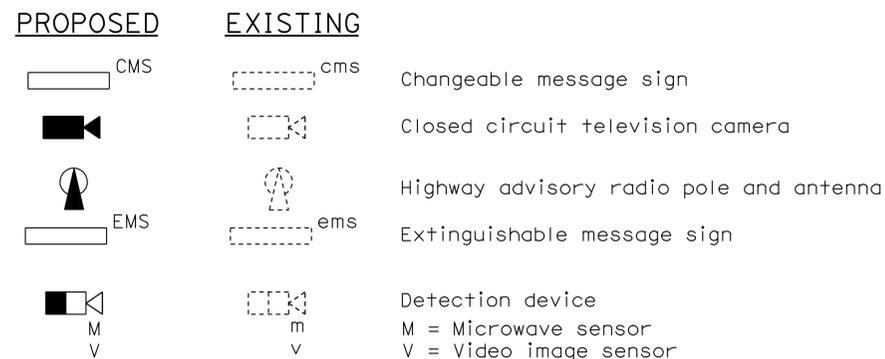
CONDUIT AND CONDUCTOR IDENTIFICATION:



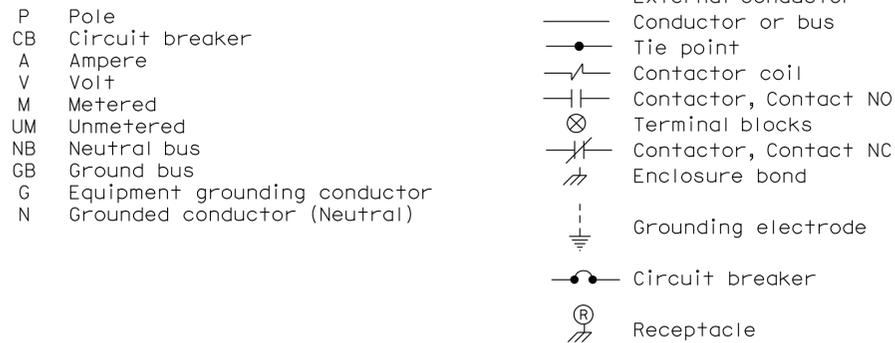
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



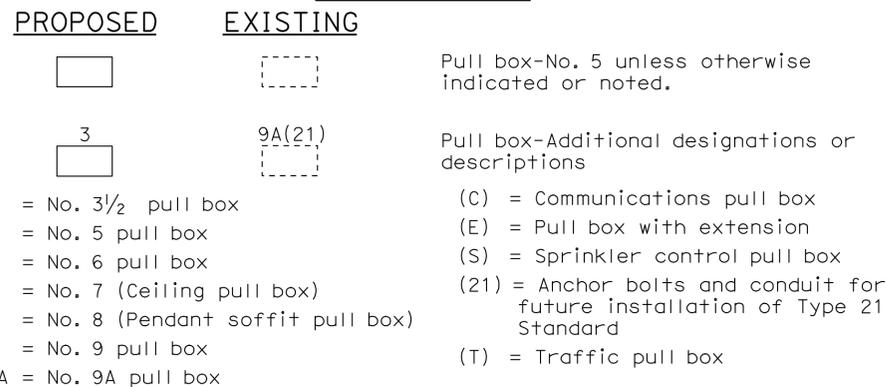
MISCELLANEOUS EQUIPMENT



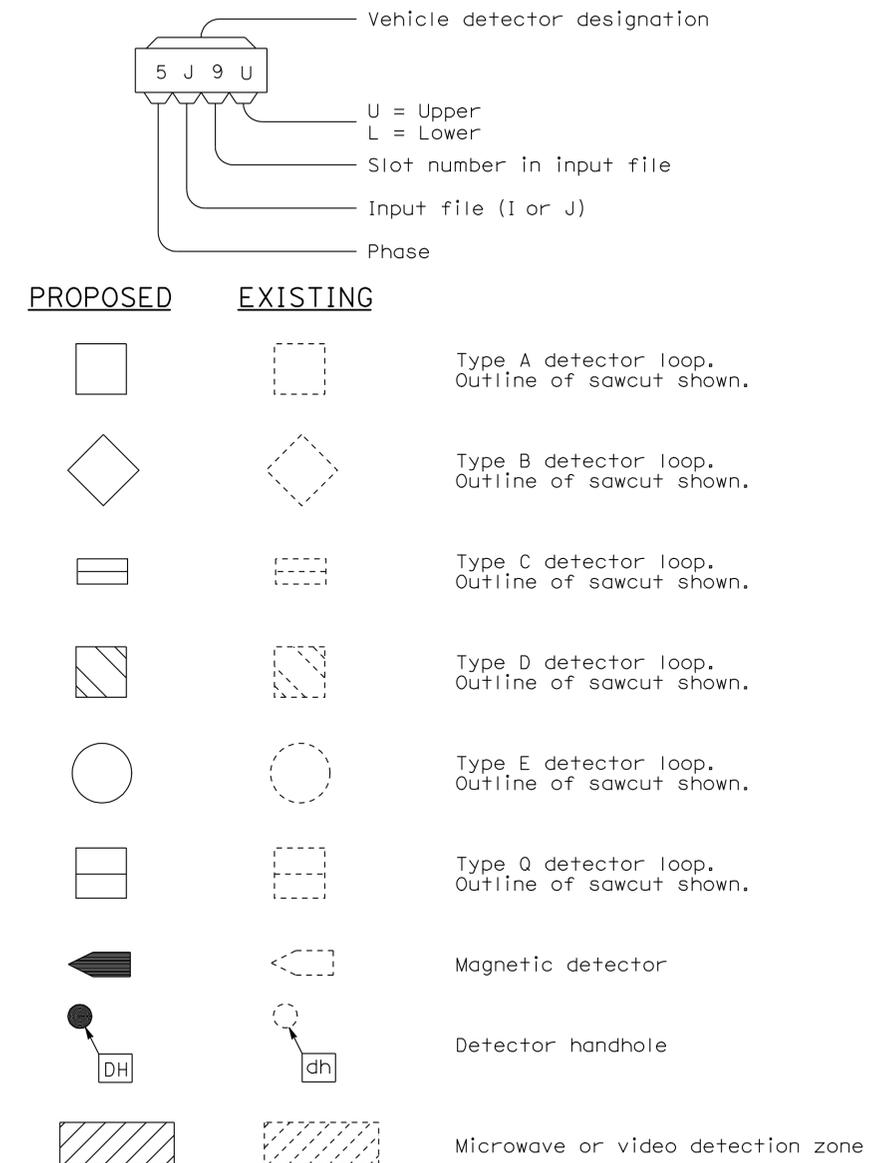
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

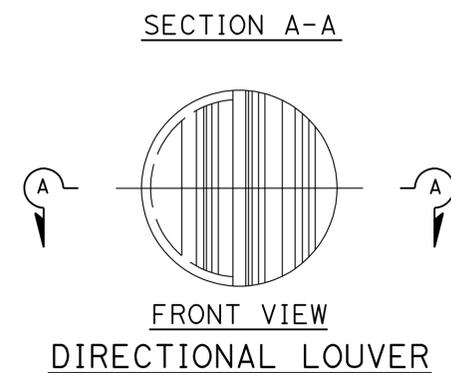
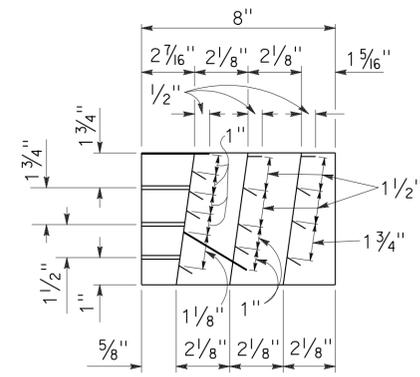
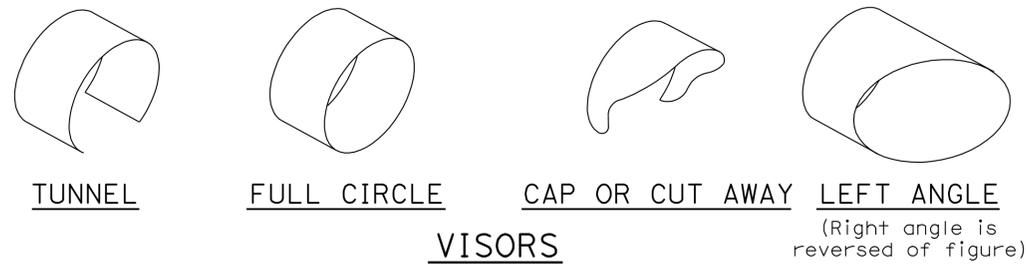
RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
 DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

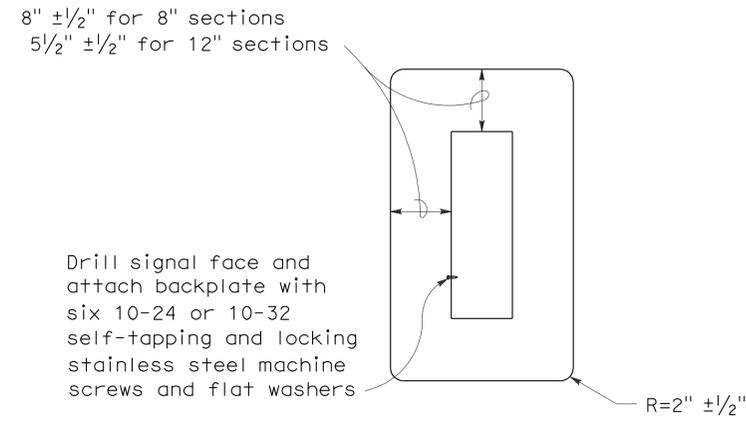
2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	3.4	33	50

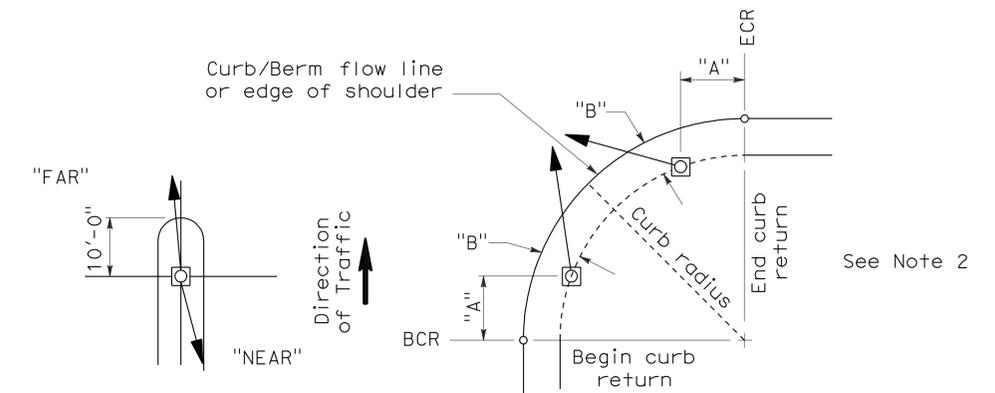
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA



Directional louvers shall be oriented as directed by the Engineer and secured in place with one plated brass machine screw and nut.



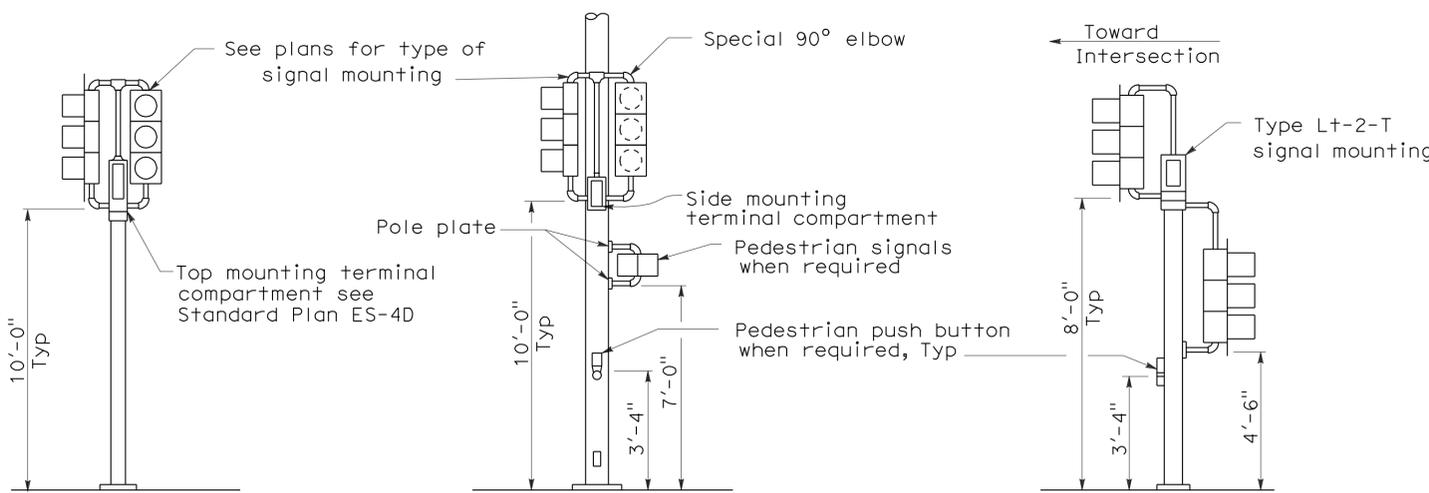
8" AND 12" SECTIONS
BACKPLATE
 1/16" minimum thickness
 3001-14 aluminum, or plastic when specified



NOTES:

1. Typical signal pole placement unless dimensioned on plans.
2. For "A" and "B" dimensions, see Pole Schedule, or as directed by the Engineer.

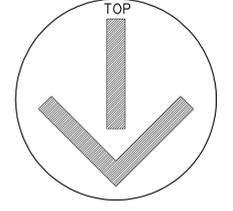
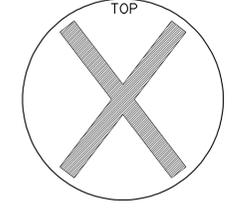
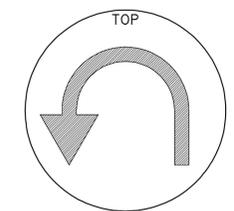
SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS



TOP MOUNTED SIGNALS (TV)
 Type 1-A, 1-B, 1-C and 1-D standard as indicated on the plans

SIDE MOUNTED SIGNALS (SV AND SP)
 Normally used on standards with luminaire or signal mast arm

LEFT TURN LANE SIGNAL
 Type 1-A, 1-B, 1-C and 1-D standard as indicated on plans



TYPICAL SIGNAL INSTALLATIONS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)
 NO SCALE

RSP ES-4C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN ES-4C DATED MAY 1, 2006 - PAGE 420 OF THE STANDARD PLANS BOOK DATED MAY 2006.

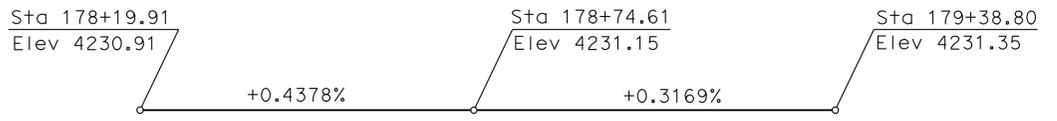
REVISED STANDARD PLAN RSP ES-4C

2006 REVISED STANDARD PLAN RSP ES-4C

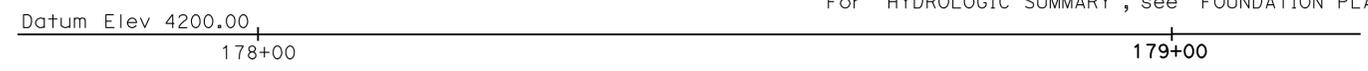
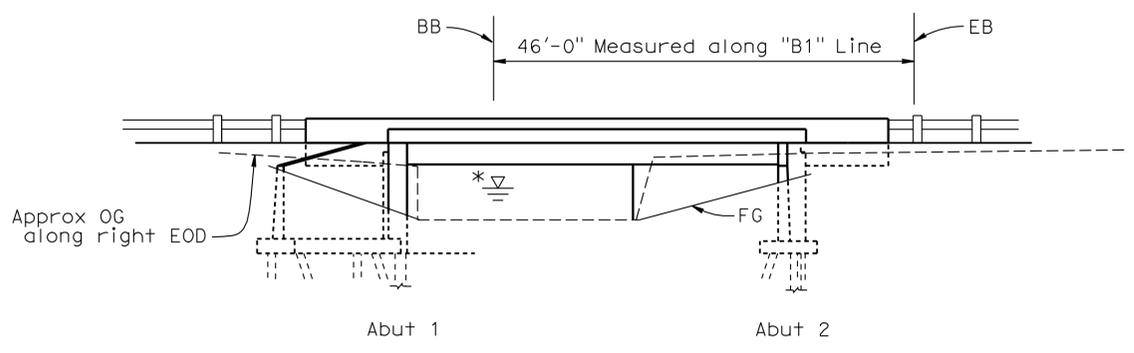
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	34	50

Jose M. Aquino III
 REGISTERED CIVIL ENGINEER DATE 11-8-10
 3-14-11
 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
 Jose M. Aquino III
 No. 58386
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA

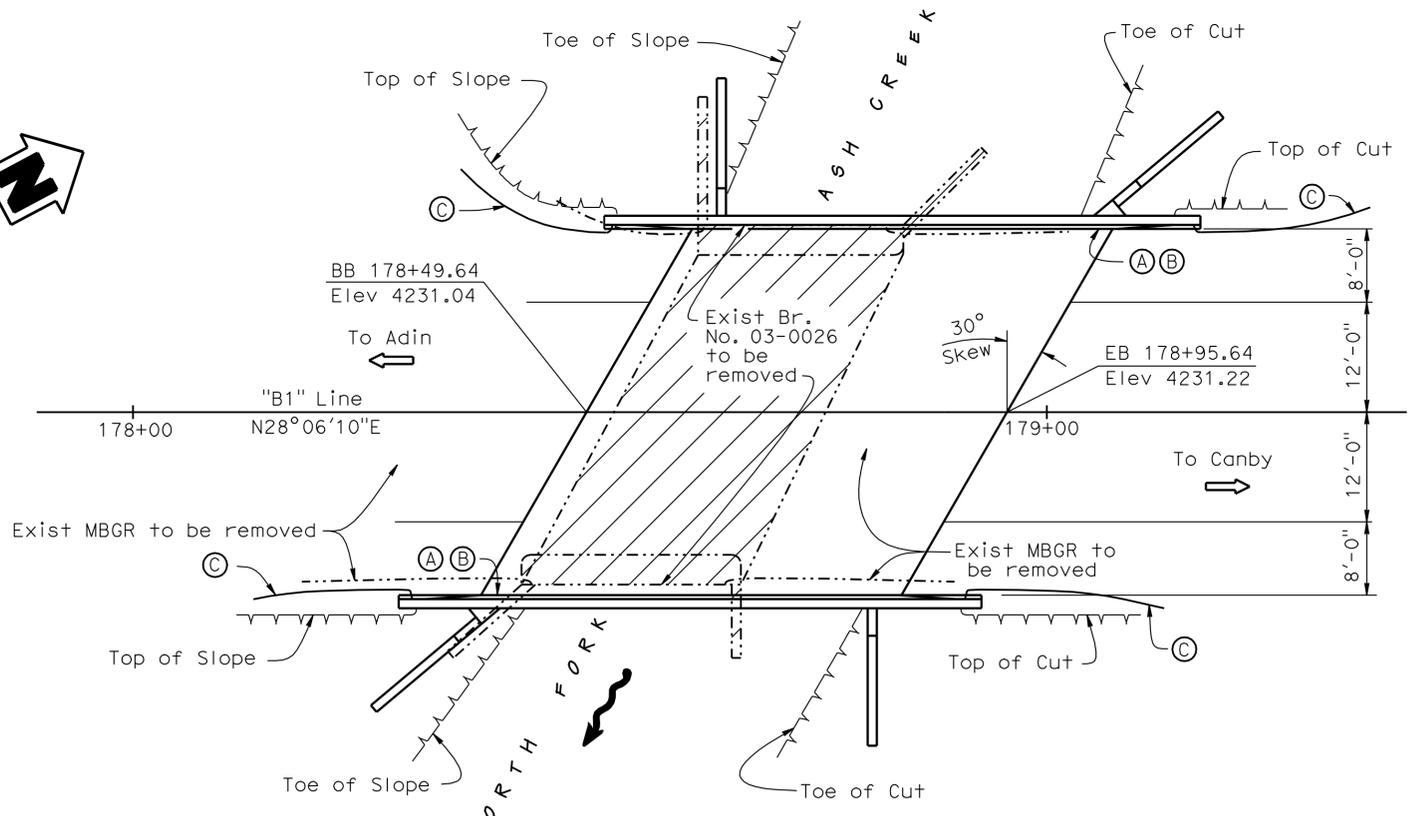


PROFILE GRADE
No Scale



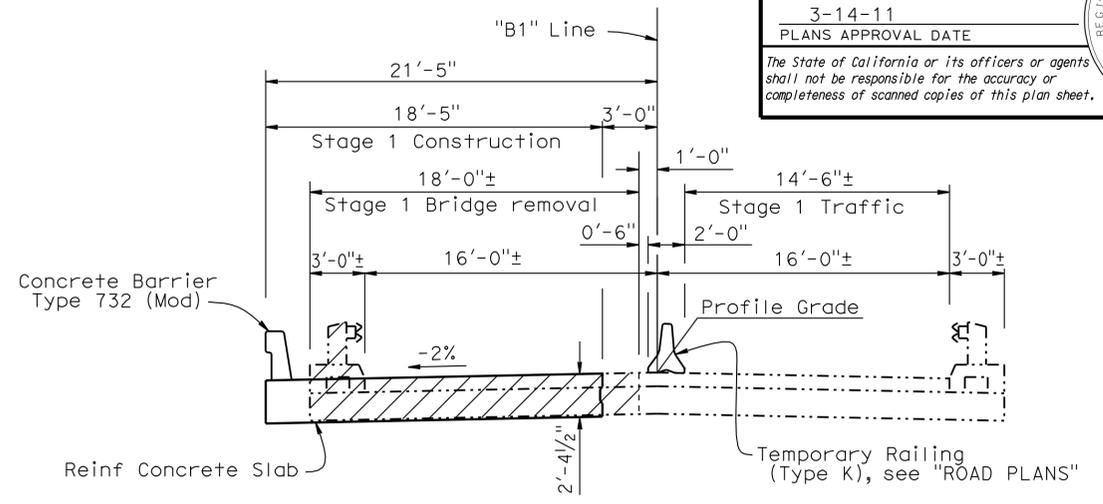
* For "HYDROLOGIC SUMMARY", see "FOUNDATION PLAN" sheet

ELEVATION
1" = 10'

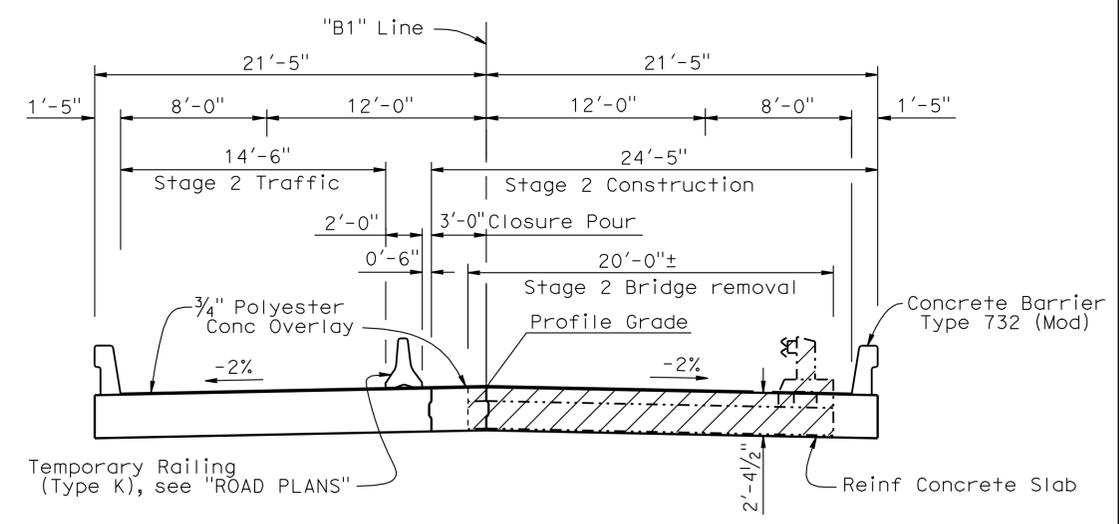


PLAN
1" = 10'

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



STAGE 1 TYPICAL SECTION
1" = 5'



STAGE 2 TYPICAL SECTION
1" = 5'

LEGEND:

- Indicates Existing Structure
 - Indicates New Structure
 - ▨ Indicates Bridge Removal
- NOTES:**
- (A) Paint "BRIDGE NO. 03-0060"
 - (B) Paint "NORTH FORK ASH CREEK BRIDGE"
 - (C) MBGR, see "ROAD PLANS"

For "GENERAL NOTES", "PILE DATA TABLE" and "INDEX TO PLANS", see "INDEX TO PLANS" sheet

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	2,125	SQFT
BRIDGE REMOVAL	LUMP	SUM
STRUCTURE EXCAVATION (BRIDGE)	359	CY
STRUCTURE EXCAVATION (TYPE D)	38	CY
STRUCTURE BACKFILL (BRIDGE)	121	CY
FURNISH STEEL PILING (HP 14 X 117)	1,005	LF
DRIVE STEEL PILE (HP 14 X 117)	32	EA
STRUCTURAL CONCRETE, BRIDGE FOOTING	22	CY
STRUCTURAL CONCRETE, BRIDGE	336	CY
FURNISH POLYESTER CONCRETE OVERLAY	133	CF
PLACE POLYESTER CONCRETE OVERLAY	2,125	SQFT
BAR REINFORCING STEEL (BRIDGE)	45,181	LB
BAR REINFORCING STEEL (EPOXY COATED) (BRIDGE)	22,201	LB
CONCRETE BARRIER (TYPE 732 MODIFIED)	128	LF

DESIGN	BY Sharon Yen	CHECKED Art V Herrera	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY J Chlubna/N Gwynn	CHECKED Art V Herrera	LAYOUT	BY Sharon Yen
QUANTITIES	BY Mufeed Khalaf	CHECKED Shadi Motalebi	SPECIFICATIONS	BY Jim Corrado

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO. 03-0060
 POST MILE 3.38
NORTH FORK ASH CREEK BRIDGE (REPLACE)
GENERAL PLAN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	35	50

Jose M. Aquino III
 REGISTERED CIVIL ENGINEER DATE 11-8-10
 3-14-11
 PLANS APPROVAL DATE
 No. 58386
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA

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GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

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

DEAD LOAD:
Includes 35 psf for future wearing surface

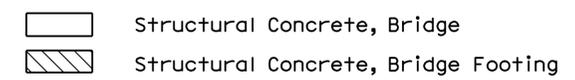
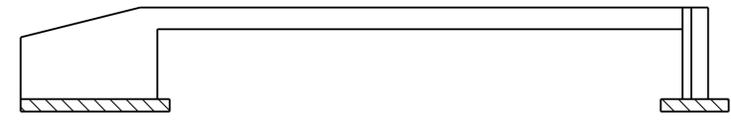
LIVE LOADING:
HL93 and permit design load

SEISMIC DESIGN:
Caltrans Seismic Design Criteria (SDC) Version 1.4 Dated June 2006

SEISMIC LOADING:
Soil profile type D
Magnitude group 7.0 +/- 0.25
Peak Rock Acceleration 0.3g

REINFORCED CONCRETE:
f_y = 60 ksi
f'_c = 3.6 ksi

STRUCTURAL STEEL
Steel Piles: ASTM A709 Grade 50



CONCRETE STRENGTH AND TYPE LIMITS
No Scale

PILE DATA TABLE

Location	Pile Type	Nominal Resistance (kips)		* Design Tip Elev (Ft)	Specified Tip Elevation (Ft)	Nominal Driving Resistance (kips)
		Compression	Tension			
Abutment 1	HP 14x117	270	0	4185.0 (1), (2)	4185.0	270
Abutment 2	HP 14x117	270	0	4185.0 (1), (2)	4185.0	270
Abutment 1 Ret Walls	HP 14x117	180	0	4195.0 (1), (2)	4195.0	180
Abutment 2 Ret Walls	HP 14x117	180	0	4195.0 (1), (2)	4195.0	180

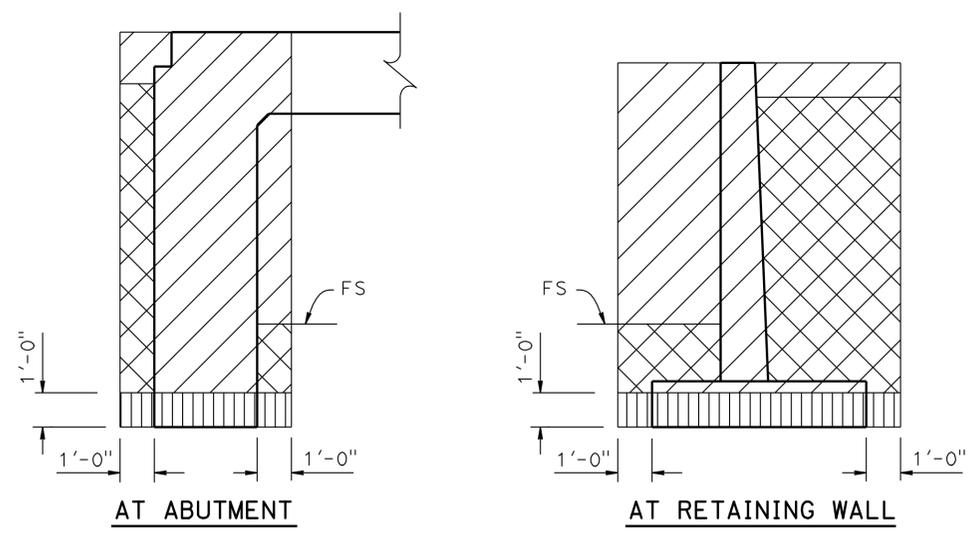
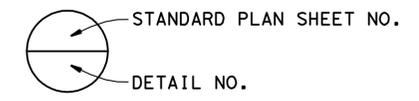
* Design Tip Elevation is controlled by (1) Compression, (2) Lateral and Scour
Total potential Abutment scour exists at Elev 4214.0

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	DECK CONTOURS
4	FOUNDATION PLAN
5	ABUTMENT DETAILS NO. 1
6	ABUTMENT DETAILS NO. 2
7	ABUTMENT DETAILS NO. 3
8	ABUTMENT DETAILS NO. 4
9	ABUTMENT DETAILS NO. 5
10	TYPICAL SECTION
11	BOTTOM REINFORCEMENT
12	MISCELLANEOUS DETAILS
13	BARRIER DETAILS
14	LOG OF TEST BORINGS 1 OF 4
15	LOG OF TEST BORINGS 2 OF 4
16	LOG OF TEST BORINGS 3 OF 4
17	LOG OF TEST BORINGS 4 OF 4

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)
- B0-1 BRIDGE DETAILS
- B0-3 BRIDGE DETAILS
- B0-5 BRIDGE DETAILS
- B3-1 RETAINING WALL TYPE 1 H=4' THROUGH 30'
- B11-55 CONCRETE BARRIER TYPE 732



- LEGEND:**
- Indicates Structure Excavation
 - Indicates Structure Backfill
 - Indicates Structure Excavation (Type D)

LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL
No Scale

DESIGN	BY Sharon Yen	CHECKED Art V Herrera	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO. 03-0060	NORTH FORK ASH CREEK BRIDGE (REPLACE) INDEX TO PLANS
	DETAILS	BY Janie Chlubna			CHECKED Art V Herrera	
QUANTITIES	BY Mufeed Khalaf	CHECKED Shadi Motalebi	CU 03258 EA 2C2211	REVISION DATES	SHEET 2 OF 17	

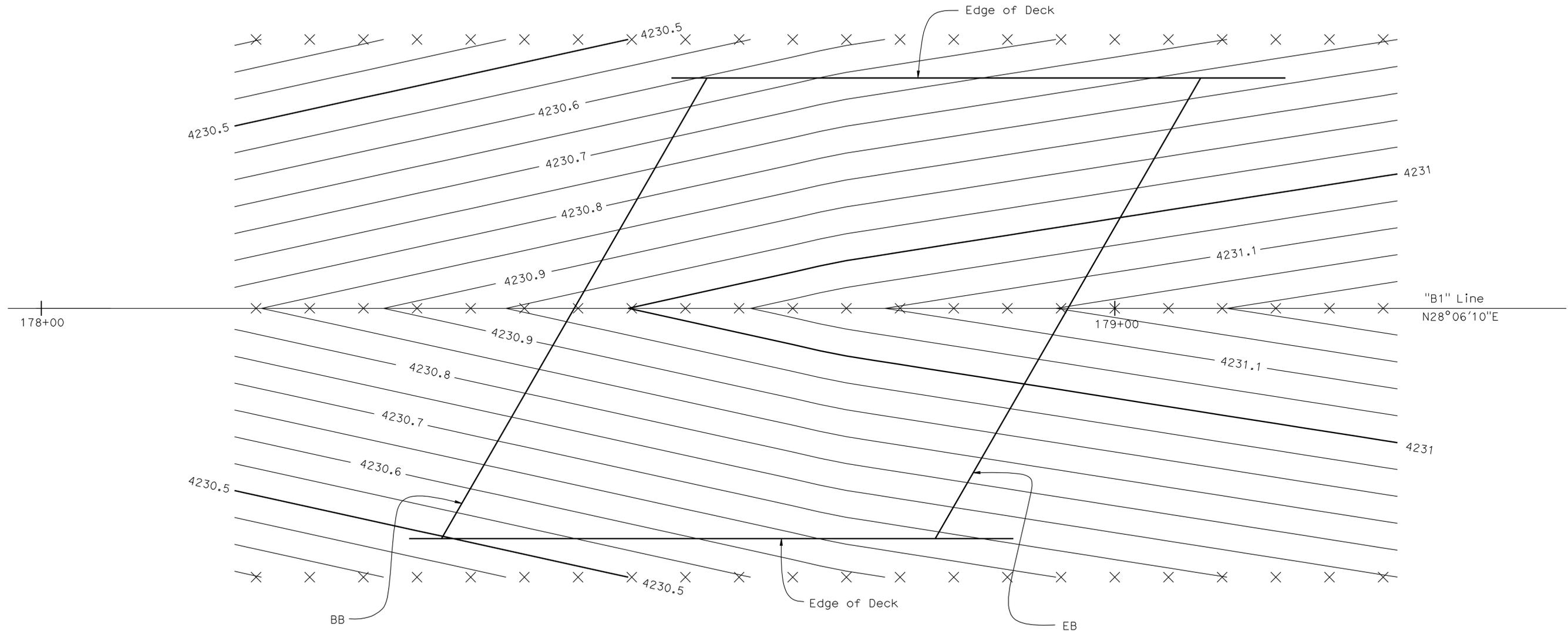
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

FILE => 03-0060-b-index.dgn



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	36	50
REGISTERED CIVIL ENGINEER DATE <i>Jose M. Aquino III</i> 11-8-10			REGISTERED PROFESSIONAL ENGINEER No. 58386 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
PLANS APPROVAL DATE 3-14-11					
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PLAN
1" = 5'

- NOTES:
- Contours are at .05 Intervals
 - X - Indicates 5' Intervals along Station Line
 - Contours do not include Camber
 - Top of polyester concrete overlay shall match the profile grade. The contours shown, are for top of concrete deck and have been adjusted by lowering 3/4" from the profile grade

DESIGN	BY Sharon Yen	CHECKED Art V Herrera
DETAILS	BY J Chlubna/N Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Mufeed Khalaf	CHECKED Shadi Motalebi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH **3**

BRIDGE NO.	03-0060
POST MILE	3.38

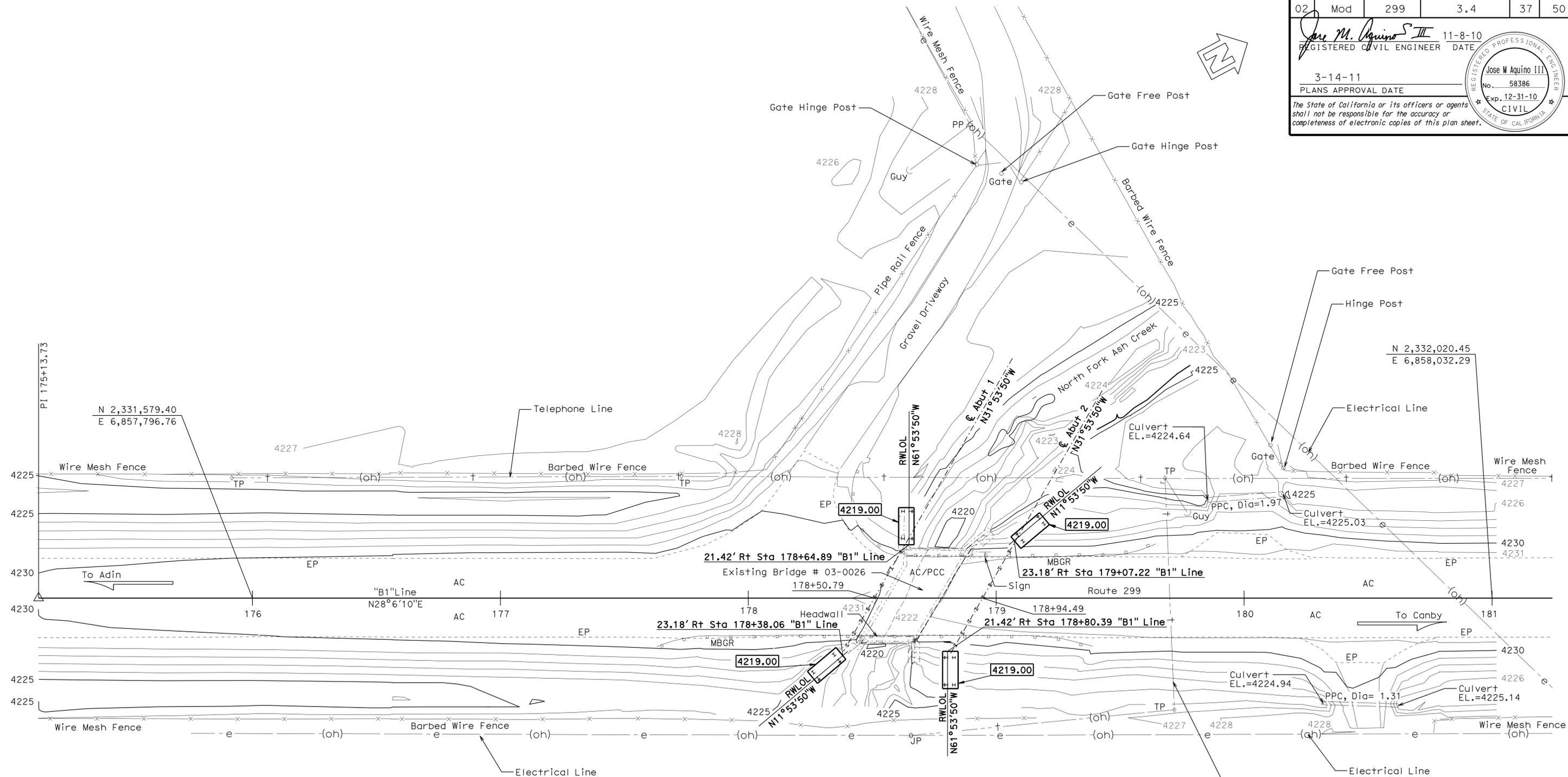
NORTH FORK ASH CREEK BRIDGE (REPLACE)
DECK CONTOURS



REVISION DATES	3-14-11	3-14-11	12-31-10	10-5-10				
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	37	50

Jose M. Aquino III
 REGISTERED CIVIL ENGINEER DATE 11-8-10
 3-14-11
 PLANS APPROVAL DATE
 No. 58386
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA
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SURVEY CONTROL
 CM 3.25 (Not Shown on Plan)
 Fnd 3/4" Rebar w/ 1 1/2" Al. Cap 0.1' Above Ground
 477.41 FT S 22°29'58" W From Sta 175+13.73
 N 2331062.24
 E 6857573.43
 Elev. = 4226.24
 CM 3.56 (Not Shown on Plan)
 Fnd 3/4" Rebar w/ 1 1/2" Al. Cap Flush w/ Ground
 552.47 FT N 32°48'49" E From Sta 182+13.83
 N 2332585.18
 E 6858385.29
 Elev. = 4230.87

HYDROLOGIC / HYDRAULIC DATA SUMMARY

DRAINAGE AREA:	6.00 SQUARE MILES	
FREQUENCY (YEARS)	50	100
DISCHARGE (CUBIC FEET PER SECOND)	290.00	360.00
DESIGN FLOOD		
BASE FLOOD		
WATER SURFACE ELEV. (FEET)	4225.10	4225.40

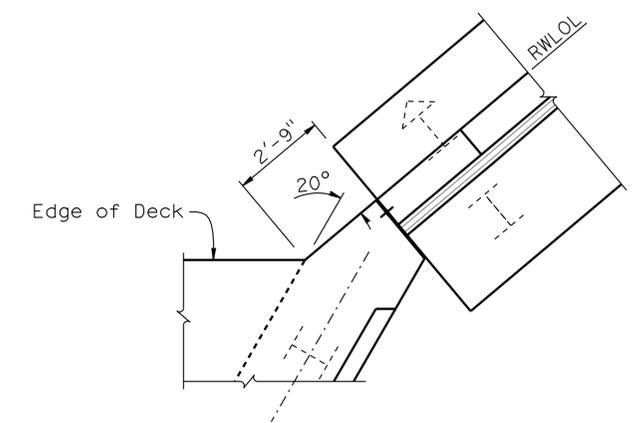
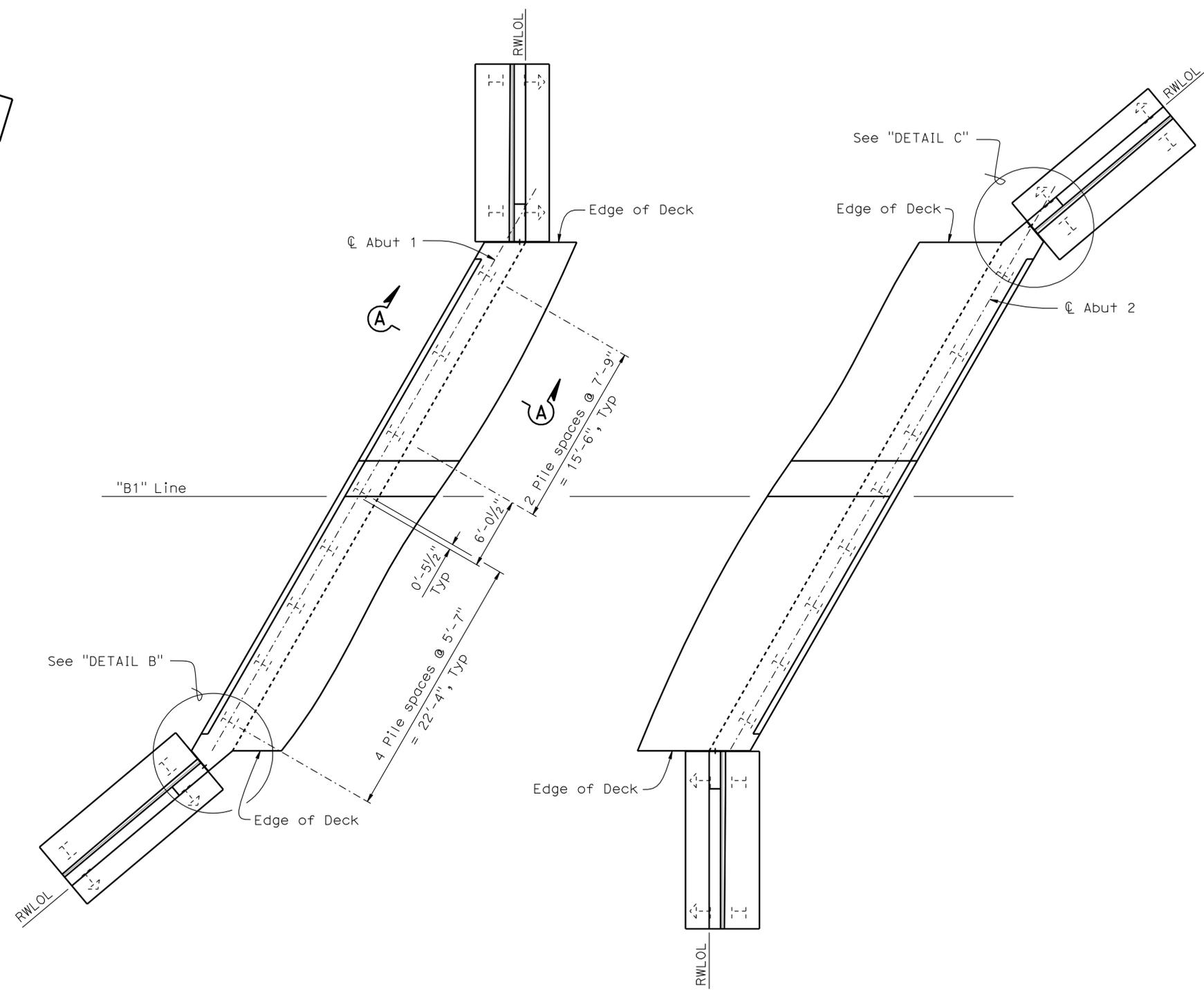
FLOOD PLAIN DATA ARE BASED UPON INFORMATION AVAILABLE WHEN THE PLANS WERE PREPARED AND ARE SHOWN TO MEET FEDERAL REQUIREMENTS. THE ACCURACY OF SAID INFORMATION IS NOT WARRANTED BY THE STATE AND INTERESTED OR AFFECTED PARTIES SHOULD MAKE THEIR OWN INVESTIGATIONS.

- NOTES:**
- Indicated bottom of footing elevation
 - ~ ~ ~ Indicates piles, for layout, see "ABUTMENT DETAILS NO. 1" sheet
 - ++ ++ Indicates piles, for layout, see "ABUTMENT DETAILS NO. 4" sheet
 - For Retaining Wall Layout, see "ABUTMENT DETAILS NO. 4" sheet

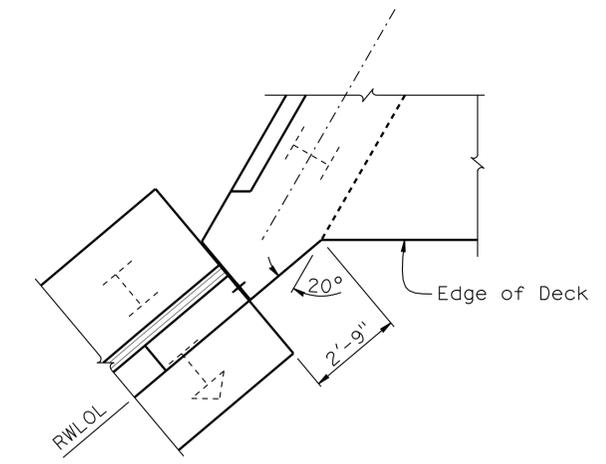
PRELIMINARY INVESTIGATION SECTION				DESIGN	By Sharon Yen	CHECKED	Art V Herrera	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	03-0060	NORTH FORK ASH CREEK BRIDGE (REPLACE) FOUNDATION PLAN		
SCALE	VERT. DATUM	PHOTOGRAMMETRY	AS OF: X	DETAILS	By Janie Chlubna	CHECKED	Art V Herrera			POST MILE	3.38			
1"=20'	HORZ. DATUM	Assum. Corps Con83	SURVEYED	BY District	CHECKED	BY T. Gillet 07/2008	QUANTITIES			BY Mufeed Khalaf	CHECKED			Shadi Motalebi
ALIGNMENT TIES Dist. Traverse Sheet				DRAFTED	BY J. Martinez 07/2008	CHECKED	BY T. Zolnikova 07/2008	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 02258	EA 2C2211	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 08/27/08 09/29/08 3/11/09 5/1/09 12/21/09 2-3-10 5-17-10 10-5-10	SHEET 4 OF 17

STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 10/25/05) FILE => 03-0060-e-fdat.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	38	50
Jose M. Aquino III REGISTERED CIVIL ENGINEER				DATE	11-8-10
PLANS APPROVAL DATE				3-14-11	
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 Jose M. Aquino III No. 58386 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA	



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



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

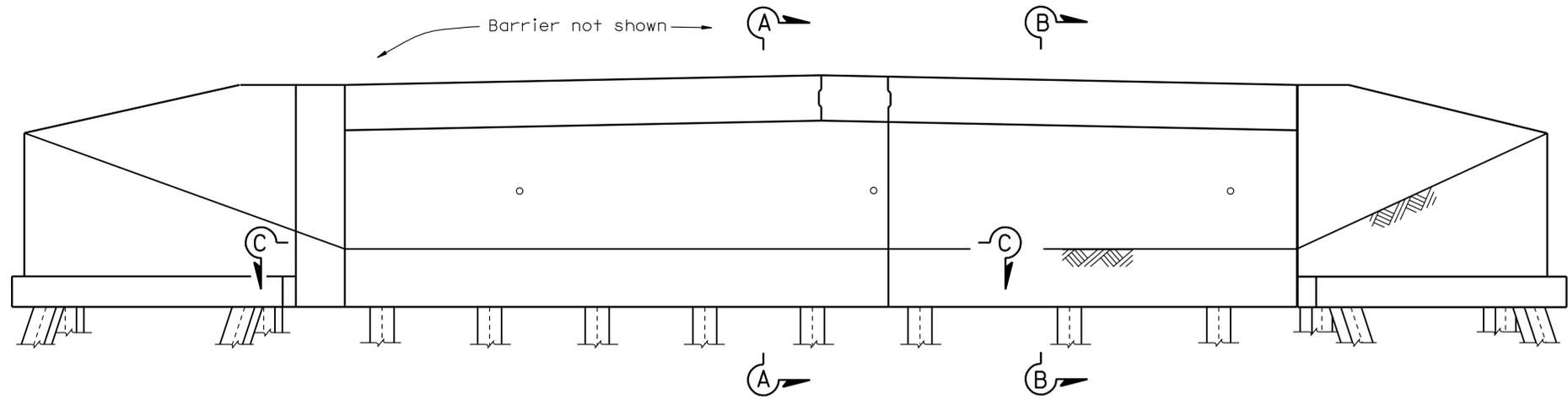
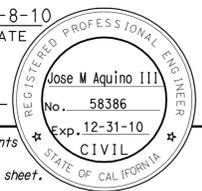
PLAN
3/16" = 1'-0"

NOTE:
For Retaining Wall pile layout and details not shown, see "ABUTMENT DETAILS NO. 4" sheet

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Sharon Yen	CHECKED Art V Herrera	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	03-0060	NORTH FORK ASH CREEK BRIDGE (REPLACE) ABUTMENT DETAILS NO. 1	
	DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera			POST MILE	3.38		
	QUANTITIES	BY Mufeed Khalaf	CHECKED Shadi Motalebi						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 03258 EA 2C2211	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 3-10-09 12-02-09 2-3-10 10-3-10	SHEET 5 OF 17

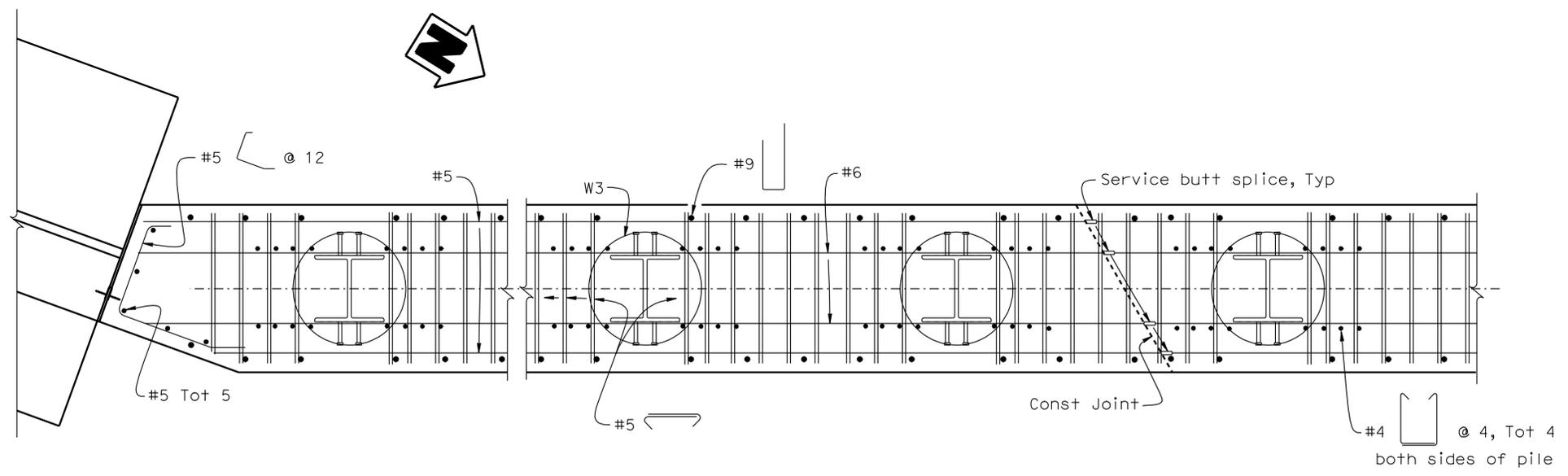
USERNAME => hrmnguyx DATE PLOTTED => 18-MAR-2011 TIME PLOTTED => 10:36

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	39	50
Jose M. Aquino III REGISTERED CIVIL ENGINEER			11-8-10	DATE	
3-14-11 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 "SECTION A - A" and "SECTION B - B",
 see "ABUTMENT DETAILS NO. 3" sheet
 Abutment 1 shown, Abutment 2 similar

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



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

DESIGN	BY Sharon Yen	CHECKED Art V Herrera
DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Mufeed Khalaf	CHECKED Shadi Motalebi

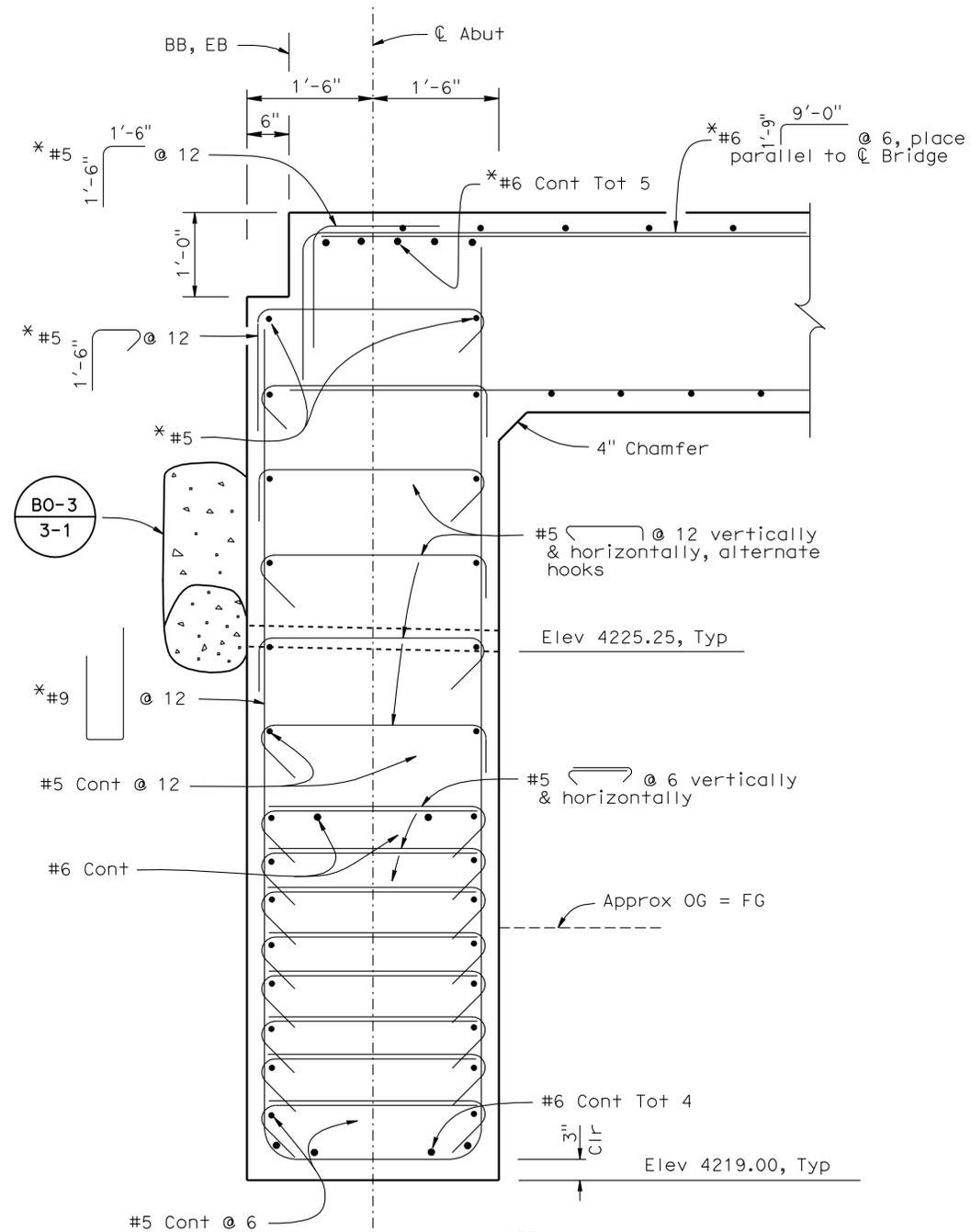
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO.	03-0060
POST MILE	3.38

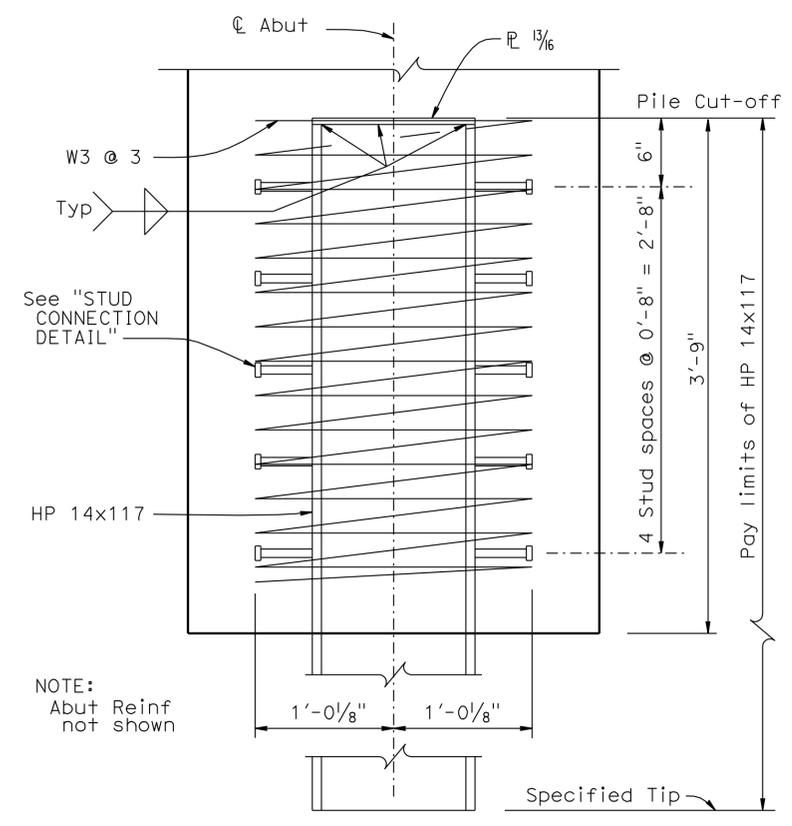
NORTH FORK ASH CREEK BRIDGE (REPLACE)
ABUTMENT DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	40	50
Jose M. Aquino III REGISTERED CIVIL ENGINEER DATE 11-8-10			No. 58386 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
3-14-11 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

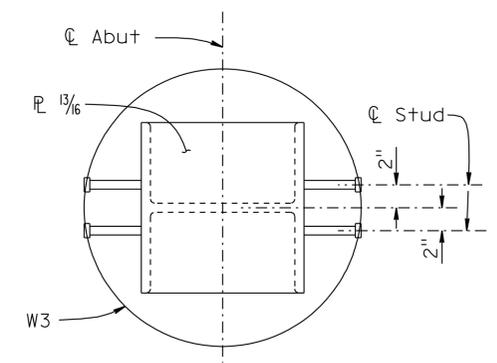


SECTION A - A
1" = 1'-0"

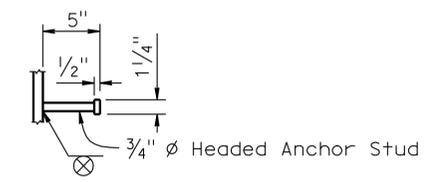
NOTES:
 * Epoxy coated Reinf
 Reinf to be service spliced between stages
 For Alternative to Std Plan "WEEP HOLE AND GEOCOMPOSITE DRAIN" detail, "ABUTMENT DETAILS NO. 5" sheet
 For details not shown, see "SECTION B - B"
 Backfill to be placed simultaneously at Abut 1 & 2 after deck completion



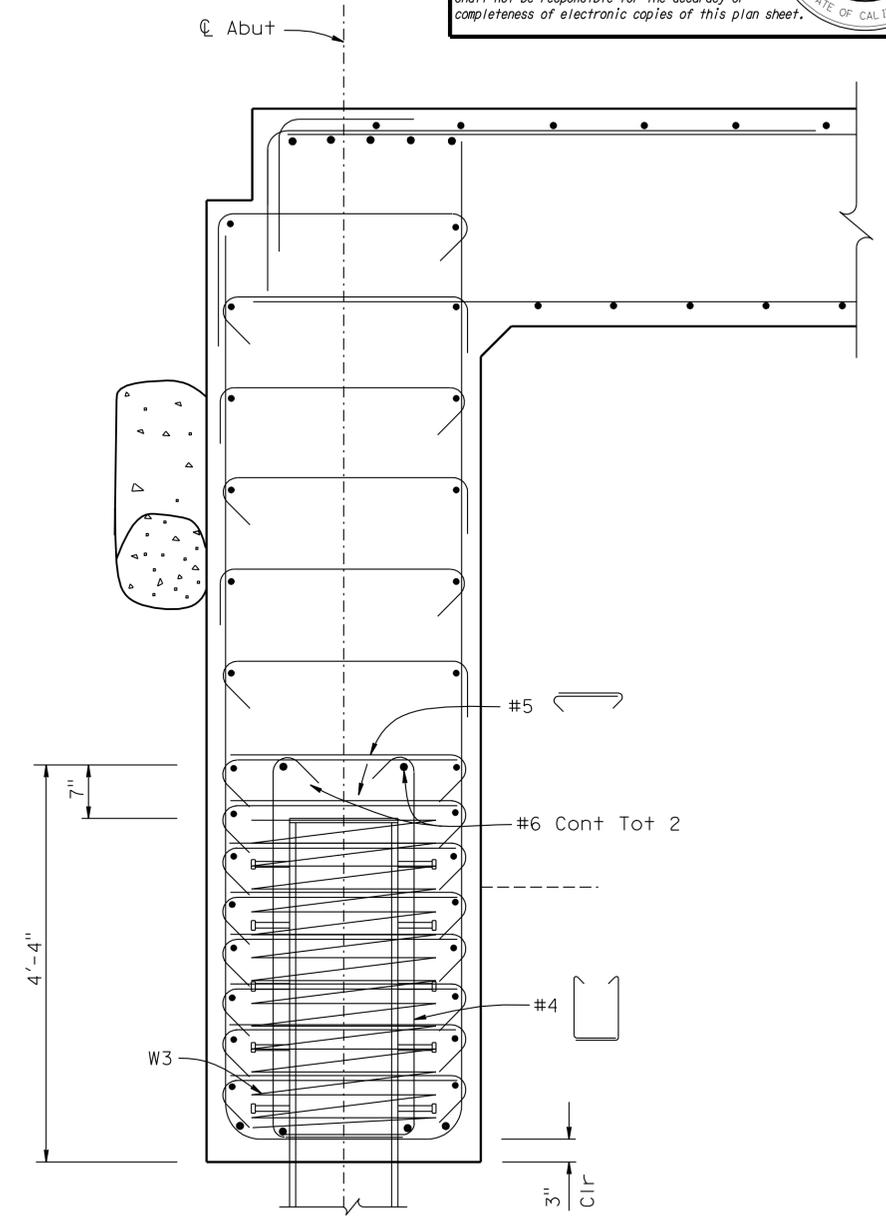
PART PILE ELEVATION
1 1/2" = 1'-0"



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



STUD CONNECTION DETAIL
1 1/2" = 1'-0"

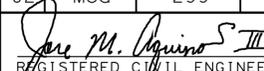
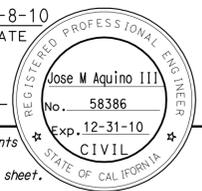


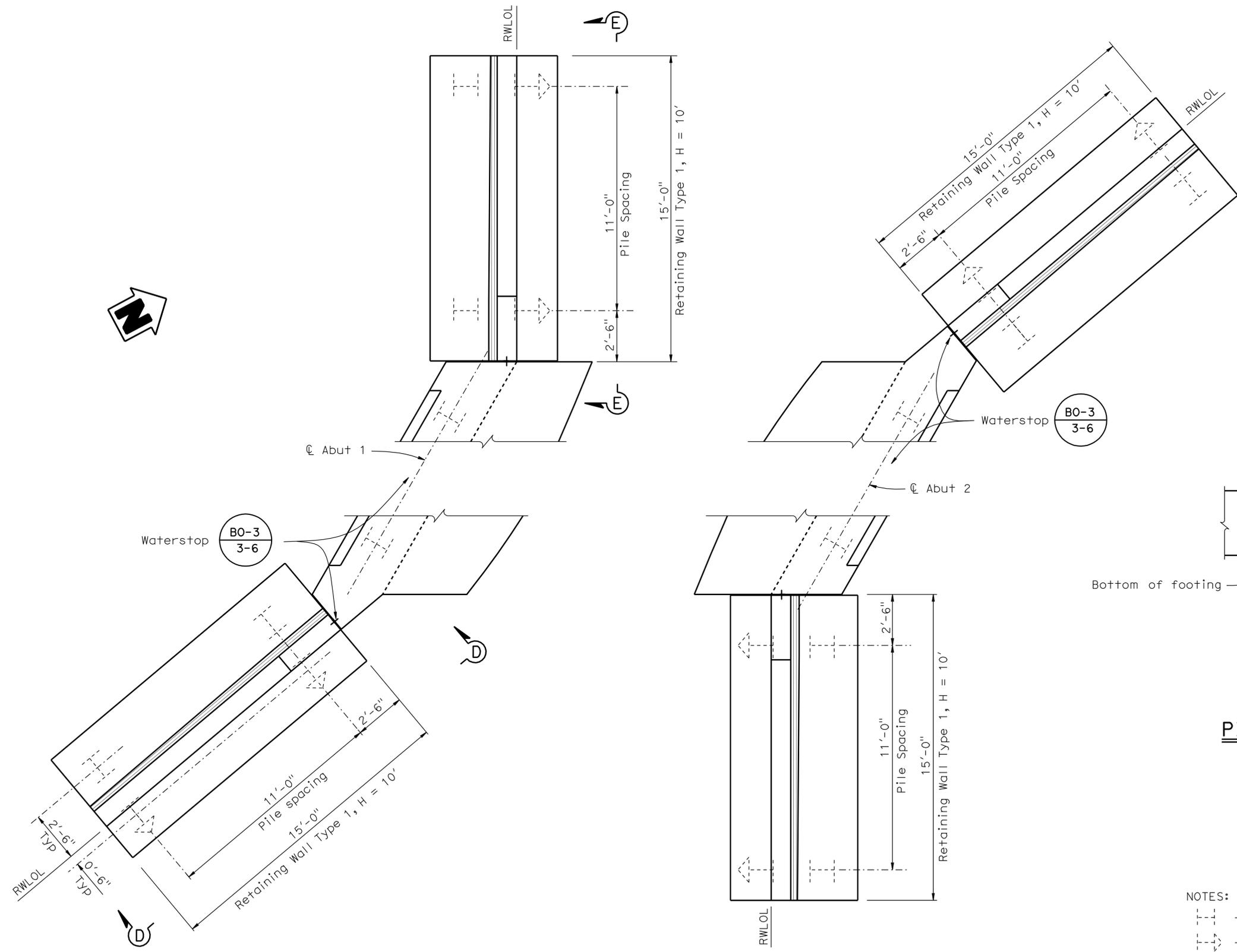
SECTION B - B
1" = 1'-0"

NOTE:
 For details not shown, see "SECTION A - A", this sheet, and "SECTION C - C" on "ABUTMENT DETAILS NO. 2" sheet

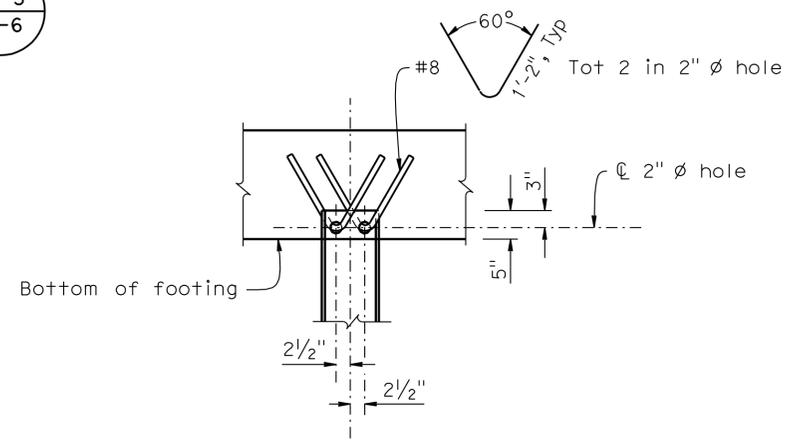
DESIGN BY Sharon Yen DETAILS BY Nancy C Gwynn QUANTITIES BY Mufeed Khalaf	CHECKED BY Art V Herrera CHECKED BY Art V Herrera CHECKED BY Shadi Motalebi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 03-0060 POST MILE 3.38	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	NORTH FORK ASH CREEK BRIDGE (REPLACE) ABUTMENT DETAILS NO. 3	
					CU 03258 EA 2C2211	DISREGARD PRINTS BEARING EARLIER REVISION DATES
					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	REVISION DATES

USERNAME => hrmjnguy DATE PLOTTED => 18-MAR-2011 TIME PLOTTED => 10:37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	41	50
 REGISTERED CIVIL ENGINEER DATE 11-8-10					
PLANS APPROVAL DATE 3-14-11					
<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>					



PLAN B3-1
 $\frac{3}{8}'' = 1'-0''$



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

- NOTES:
- - - - - Indicates vertical piles
 - - - - - Indicates battered (1:3) piles
 - For details not shown, see "ABUTMENT DETAILS NO. 1" sheet
 - For "ELEVATION D - D" and "ELEVATION E - E", see "ABUTMENT DETAILS NO. 5", sheet

DESIGN	BY Sharon Yen	CHECKED Art V Herrera
DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Mufeed Khalaf	CHECKED Shadi Motalebi

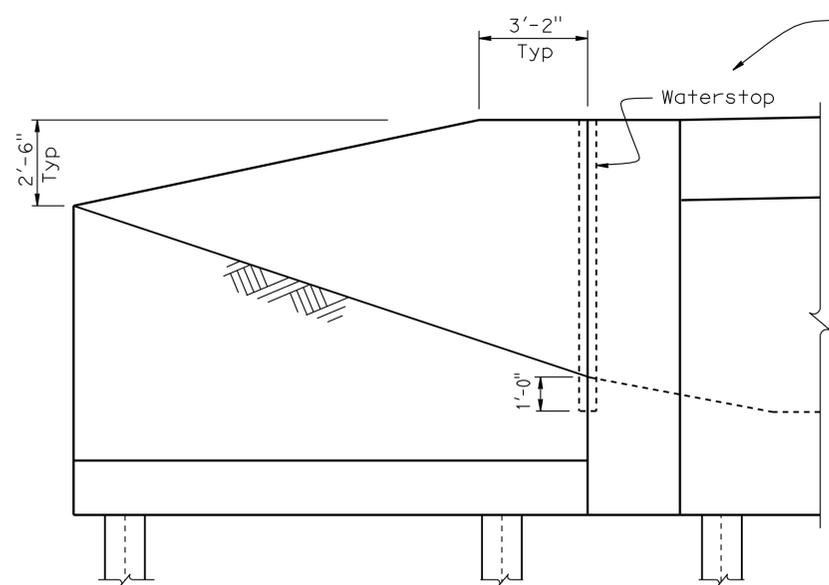
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 3

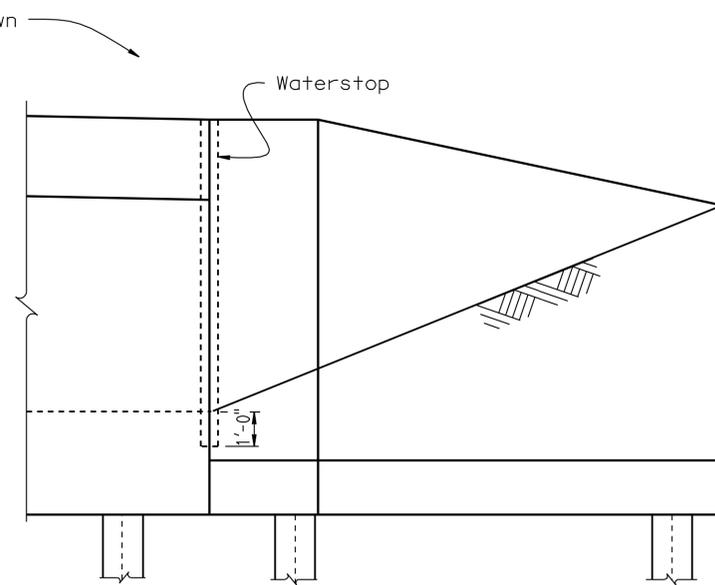
BRIDGE NO.	03-0060
POST MILE	3.38

NORTH FORK ASH CREEK BRIDGE (REPLACE)
ABUTMENT DETAILS NO. 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	42	50
Jose M. Aquino III REGISTERED CIVIL ENGINEER			DATE	11-8-10 3-14-11 PLANS APPROVAL DATE	
No. 58386 Exp. 12-31-10 CIVIL			REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

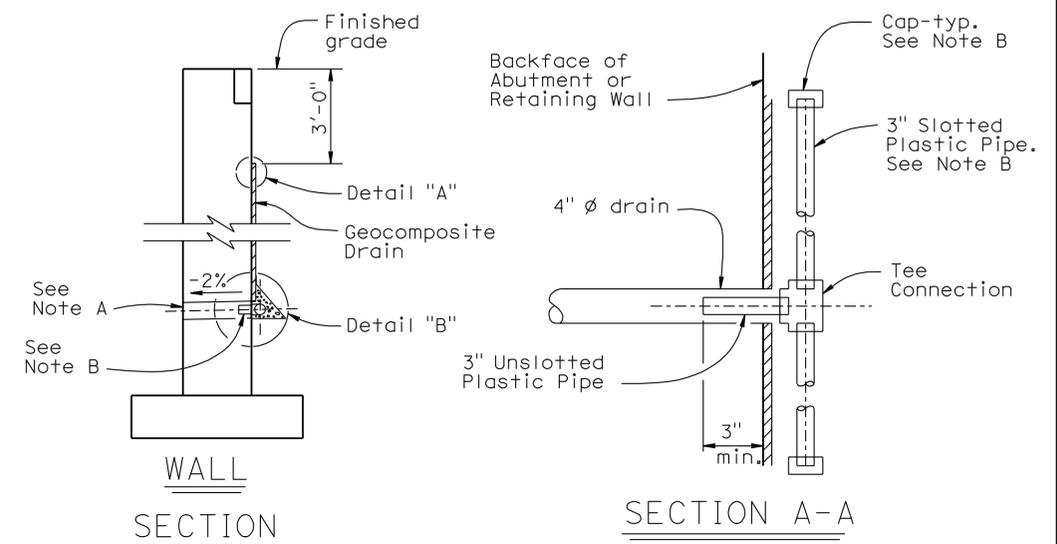


ELEVATION D - D
 $\frac{3}{8}'' = 1'-0''$



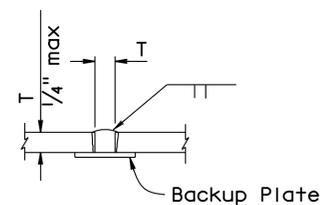
ELEVATION E - E
 $\frac{3}{8}'' = 1'-0''$

NOTE:
 For location of "SECTION D - D" and "SECTION E - E", see "ABUTMENT DETAILS NO. 4" sheet

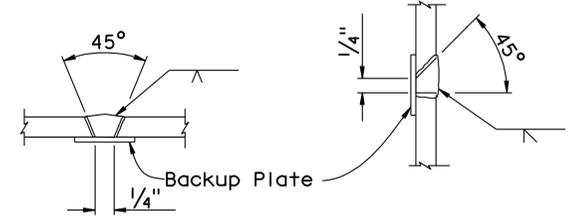


WALL SECTION

SECTION A-A



SQUARE GROOVE

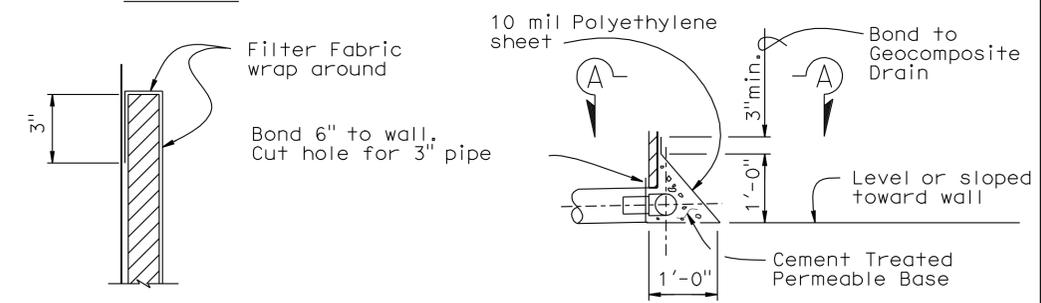


SINGLE VEE-GROOVE

SINGLE BEVEL-GROOVE

PILE WELDING DETAIL-BUTT JOINTS

- Notes:
1. Single Vee-Groove And Square Groove Permitted for all positions.
 2. Single Bevel-Groove permitted for horizontal joints only



DETAIL "A"

DETAIL "B"

WEEP HOLE AND GEOCOMPOSITE DRAIN

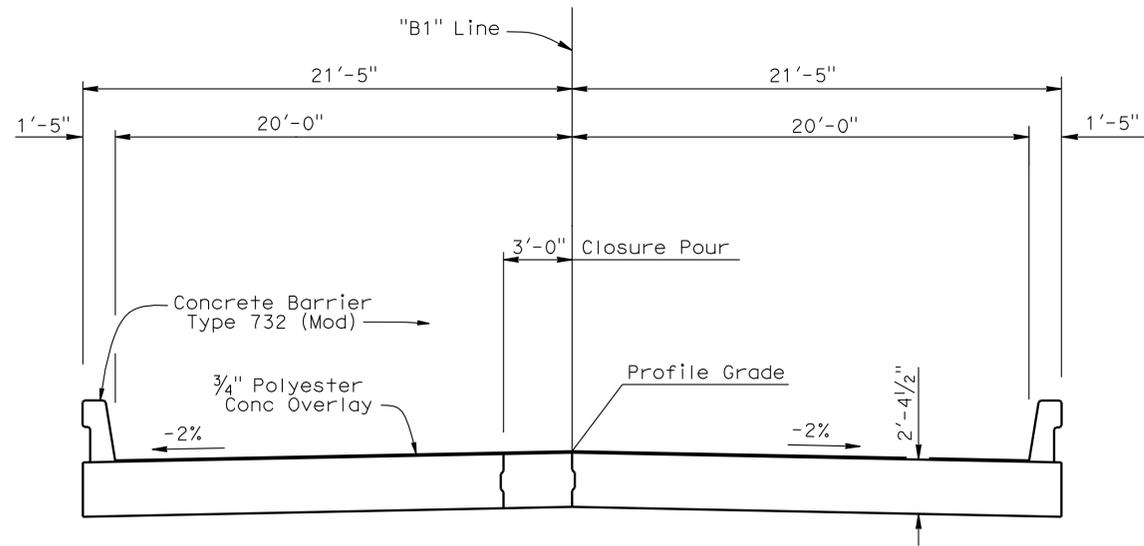
ALTERNATIVE TO BRIDGE DETAIL **BO-3**
3-1

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

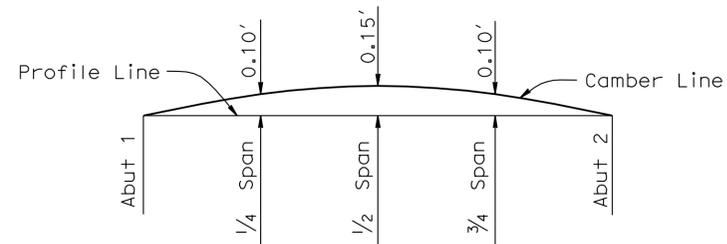
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Sharon Yen	CHECKED Art V Herrera	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	NORTH FORK ASH CREEK BRIDGE (REPLACE) ABUTMENT DETAILS NO. 5	
	DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera			03-0060		
	QUANTITIES	BY Mufeed Khalaf	CHECKED Shadi Motalebi			POST MILE 3.38		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 03258 EA 2C2211	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 9 OF 17

FILE => 03-0060-g-ab05.dgn
 USERNAME => hrmnguy DATE PLOTTED => 18-MAR-2011 TIME PLOTTED => 10:37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	43	50
REGISTERED CIVIL ENGINEER DATE <i>Jose M. Aquino III</i> 11-8-10			REGISTERED PROFESSIONAL ENGINEER No. 58386 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
PLANS APPROVAL DATE 3-14-11					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



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

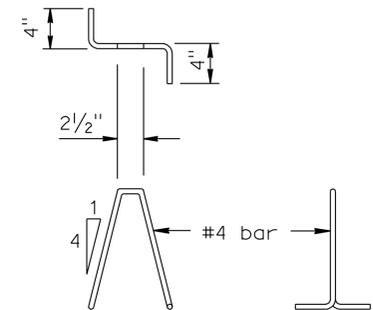


CAMBER DIAGRAM

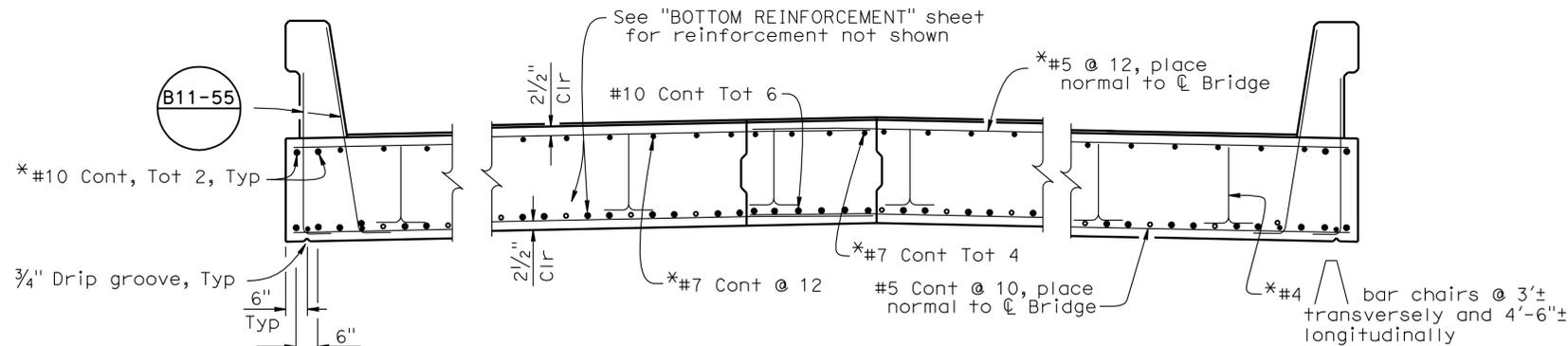
No Scale
Does not include allowance for falsework settlement

FALSEWORK RELEASE

Falsework shall be released as soon as permitted by the specifications. Closure pour shall not be placed sooner than 14 days after the falsework has been released.

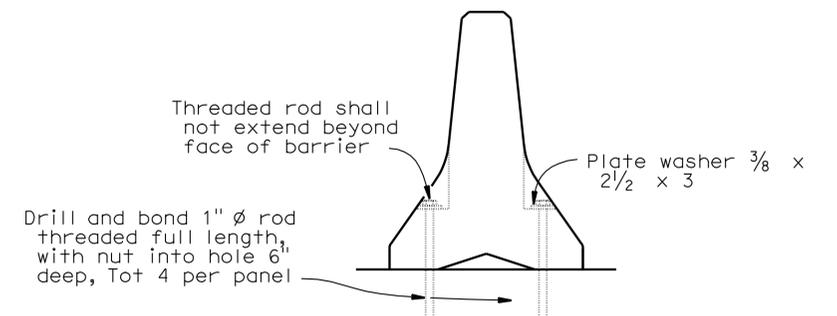


BAR CHAIR DETAIL
No Scale



PART TYPICAL SECTION
1/2" = 1'-0"

NOTES:
Barrier Rail Reinf to be epoxy coated
* Reinf to be epoxy coated

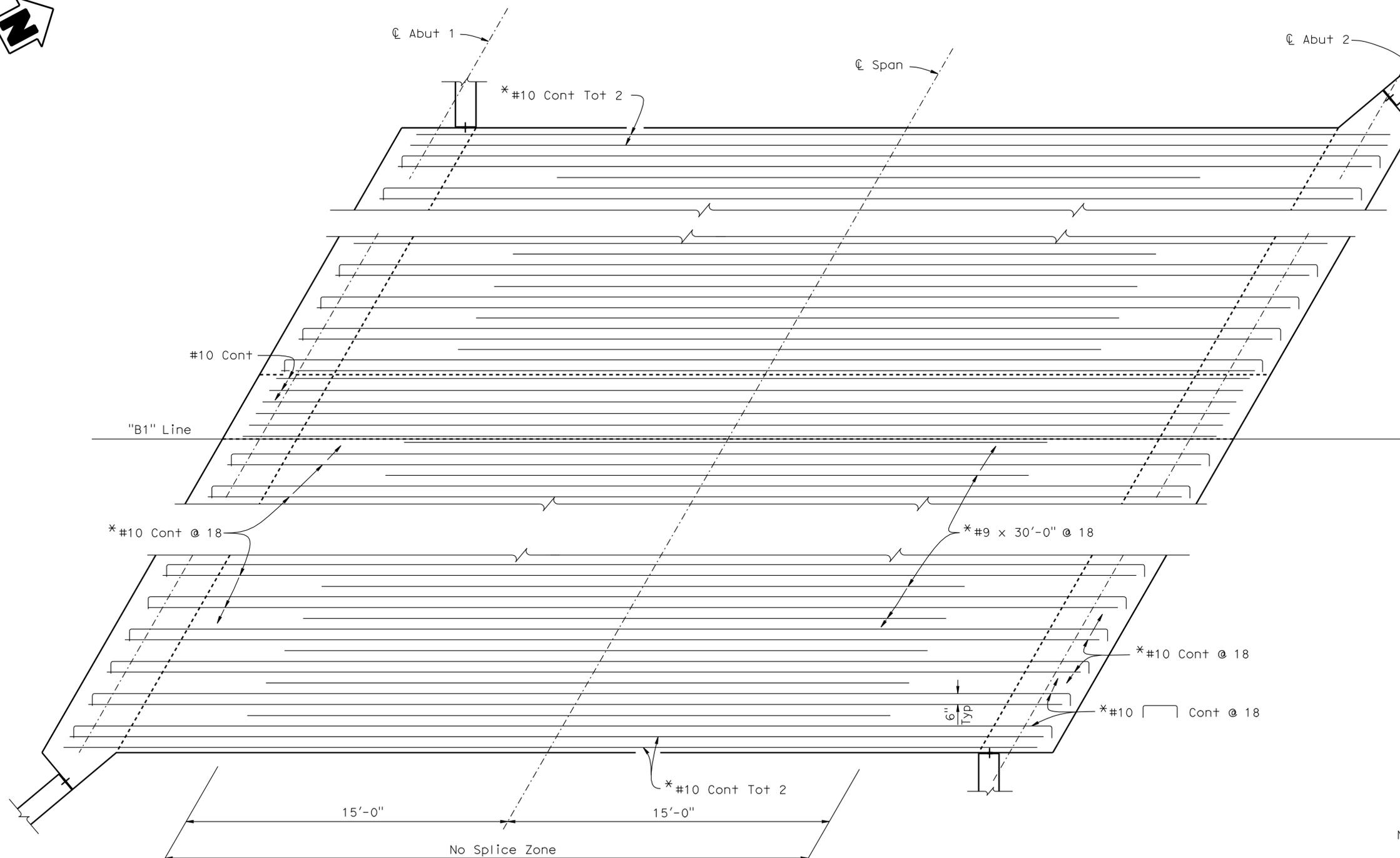


TYPE K RAILING ATTACHMENT DETAILS
No Scale

DESIGN BY Sharon Yen DETAILS BY Nancy C Gwynn QUANTITIES BY Mufeed Khalaf	CHECKED Art V Herrera CHECKED Art V Herrera CHECKED Shadi Motalebi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	NORTH FORK ASH CREEK BRIDGE (REPLACE) TYPICAL SECTION
				03-0060	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				POST MILE 3.38	REVISION DATES 3-9-09 5-7-09 12-11-09 2-3-10 2-4-10 9-2-10 10-11-10
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)				CU 03258 EA 2C2211	DISREGARD PRINTS BEARING EARLIER REVISION DATES



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	44	50
Jose M. Aquino III REGISTERED CIVIL ENGINEER DATE 11-8-10					
3-14-11 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>					



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

NOTES:
 For details not shown, see "TYPICAL SECTION" sheet
 * For bar splice limitation, see No Splice Zone

DESIGN	BY Sharon Yen	CHECKED Art V Herrera
DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Mufeed Khalaf	CHECKED Shadi Motalebi

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **3**

BRIDGE NO.	03-0060
POST MILE	3.38

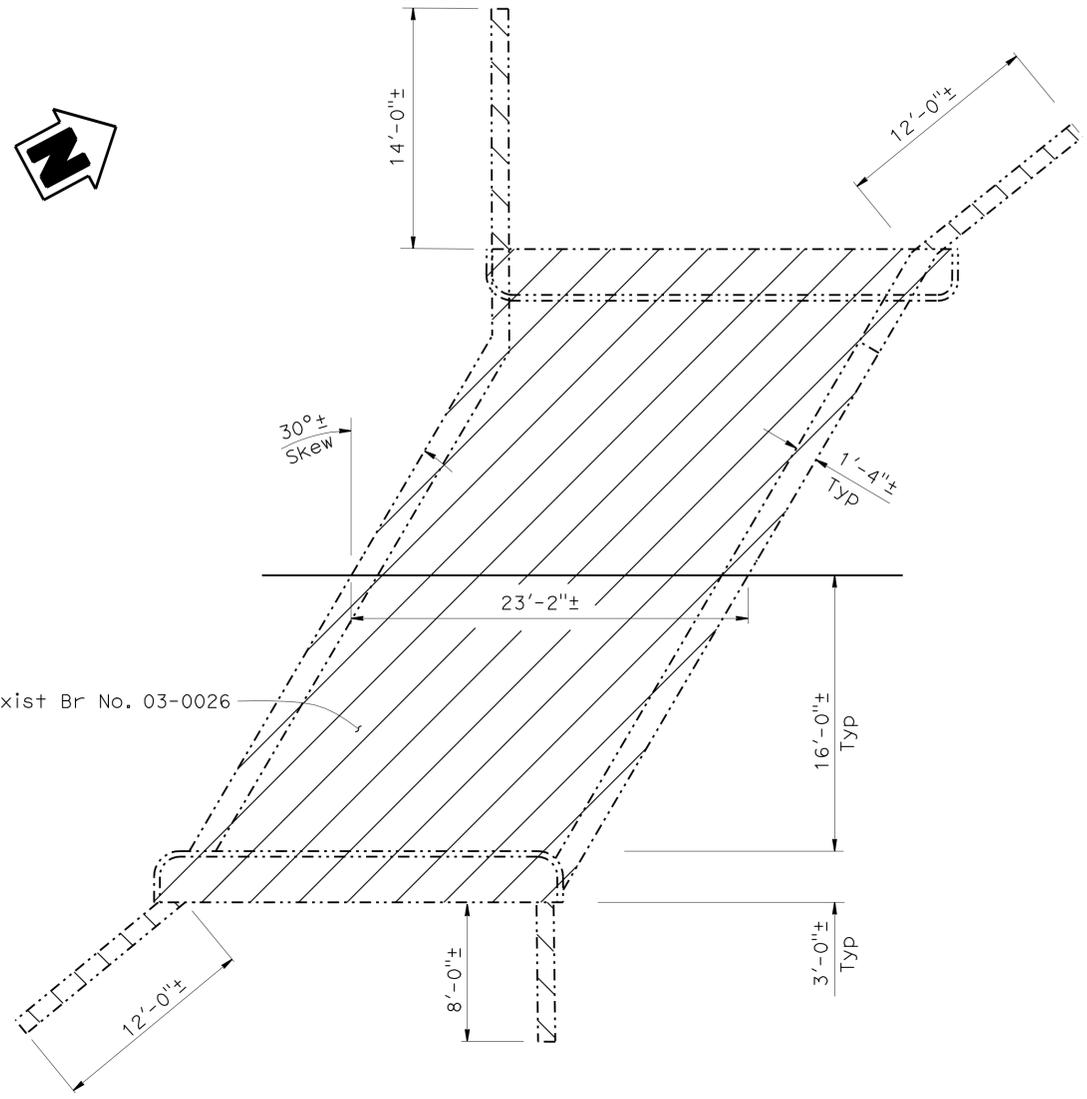
NORTH FORK ASH CREEK BRIDGE (REPLACE)
BOTTOM REINFORCEMENT



REVISION DATES	3-10-09	12-02-09	2-3-10	10-11-10				
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USERNAME => hrmiguys DATE PLOTTED => 18-MAR-2011 TIME PLOTTED => 10:37

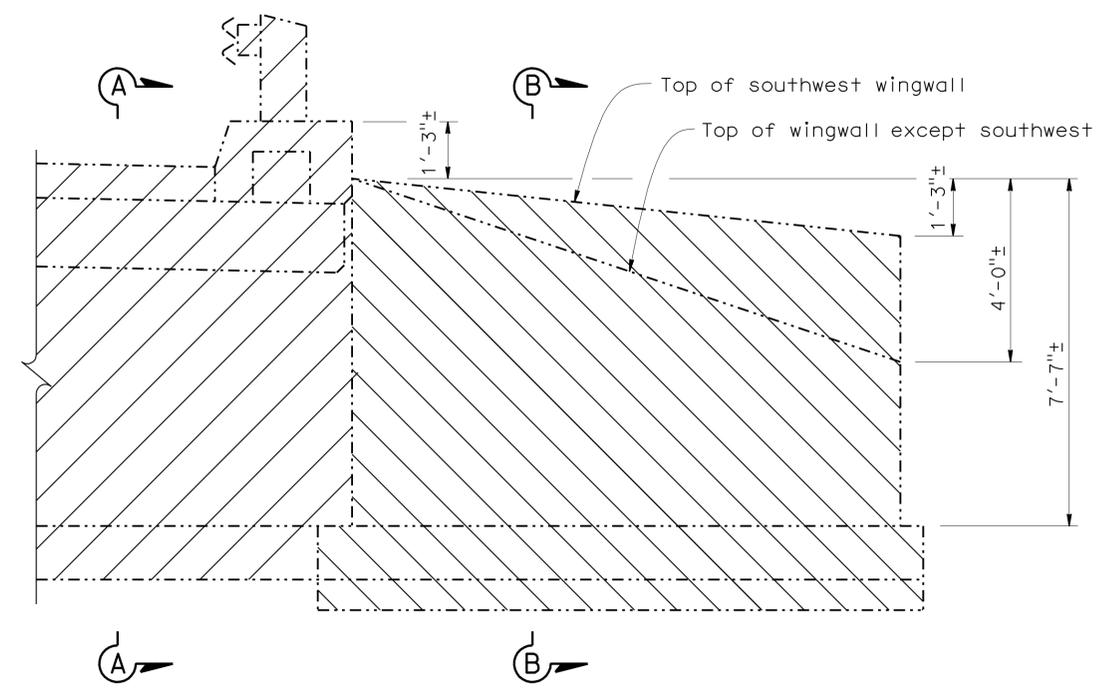
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	45	50
REGISTERED CIVIL ENGINEER <i>Jose M. Aquino III</i> DATE 11-8-10			REGISTERED PROFESSIONAL ENGINEER No. 58386 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
PLANS APPROVAL DATE 3-14-11					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



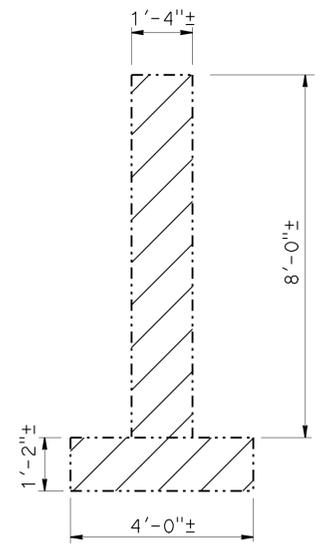
PLAN
3/16" = 1'-0"

- LEGEND:**
- Limits of bridge removal
 - Limits of wall removal

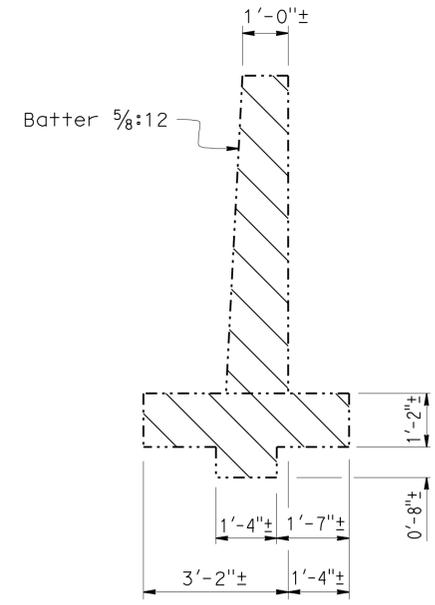
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



PART ABUTMENT ELEVATION
1/2" = 1'-0"



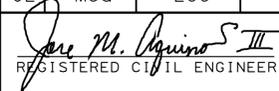
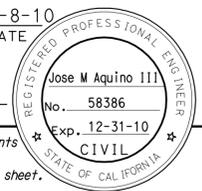
SECTION A - A
1/2" = 1'-0"

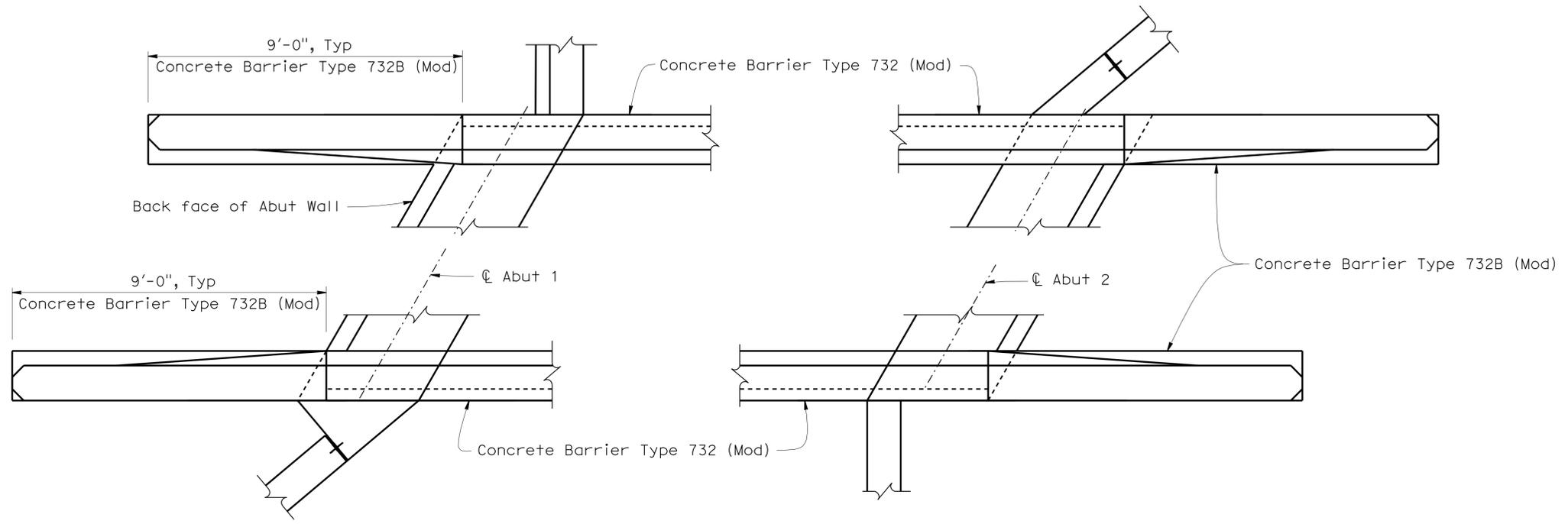


SECTION B - B
1/2" = 1'-0"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Sharon Yen	CHECKED Art V Herrera	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	03-0060	NORTH FORK ASH CREEK BRIDGE (REPLACE) MISCELLANEOUS DETAILS	
	DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera			POST MILE	3.38		
	QUANTITIES	BY Mufeed Khalaf	CHECKED Shadi Motalebi						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 03258 EA 2C2211	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 3-10-09 5-1-09 12-01-09 2-2-10 2-2-10 5-18-10 6-1-10 6-3-10	SHEET 12 OF 17

USERNAME => FPROJECT In DATE PLOTTED => 18-MAR-2011 TIME PLOTTED => 10:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	46	50
 REGISTERED CIVIL ENGINEER DATE 11-8-10					
PLANS APPROVAL DATE			3-14-11		
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PART PLAN (B11-55)
 $\frac{1}{2}'' = 1'-0''$

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Sharon Yen	CHECKED Art V Herrera	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	03-0060	NORTH FORK ASH CREEK BRIDGE (REPLACE) BARRIER DETAILS	
	DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera			POST MILE	3.38		
	QUANTITIES	BY Mufeed Khalaf	CHECKED Shadi Motalebi						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 03258 EA 2C2211	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 3-9-09 2-3-10	SHEET 13 OF 17

FILE => 03-0060-1-brdt.dgn

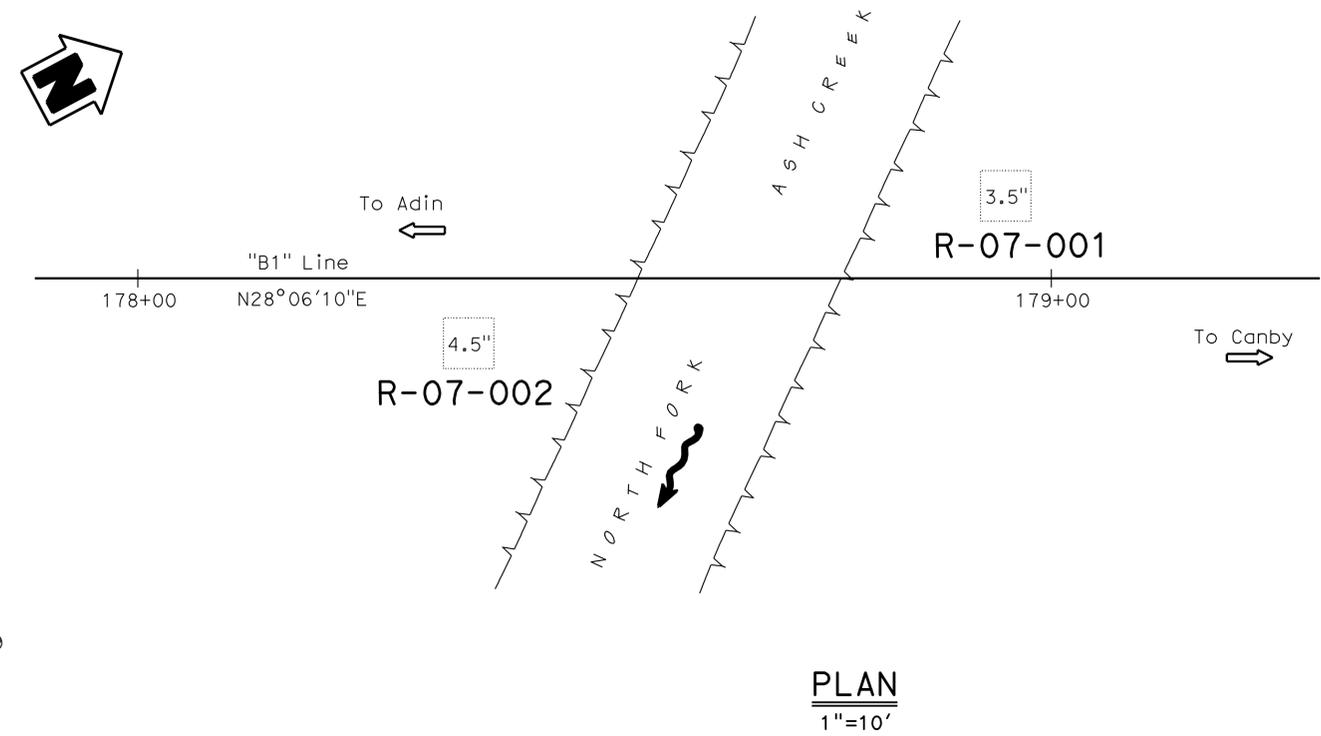
USERNAME => hmgp11n DATE PLOTTED => 18-MAR-2011 TIME PLOTTED => 10:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	47	50

Xing Zheng
 CERTIFIED ENGINEERING GEOLOGIST DATE 8-3-10
 3-14-11
 PLANS APPROVAL DATE
 Xing Zheng
 No. 2130
 Exp. 3-31-11
 CERTIFIED ENGINEERING GEOLOGIST
 STATE OF CALIFORNIA

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 KLEINFELDER INC.
 3077 FITE CIR.
 SACRAMENTO, CA 95827

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (June 2007).



BENCHMARK :

TBM Elev 4231.06
 Fnd TBM on C Rte 299
 Sta 178+49.64
 Vertical Datum NGVD29

PLAN
 1"=10'

NOTES:

1. CME 85 Truck Mounted rig (C# 7388) with automatic hammer was used to obtain SPT samples in Borings R-07-001 and R-07-002.
2. SPT N values shown on the Log of Test Boring (LOTB) sheet are actual values recorded in the field.
3. PP = Unconfined Compressive Strength using a pocket penetrometer.
4. The consistency descriptors shown on the Log of Test Borings (LOTB) sheet are based on the pocket penetrometer readings.

ENGINEERING SERVICES		GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO. 03-0060	NORTH FORK ASH CREEK BRIDGE (REPLACE) LOG OF TEST BORINGS 1 OF 4	
FUNCTIONAL SUPERVISOR NAME: R. Buell	DRAWN BY: A. Sanchez CHECKED BY: J. Kaump	FIELD INVESTIGATION BY: J.L. Thorne				POST MILES 3.38		
065 CIVIL LOG OF TEST BORINGS SHEET				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 03258 EA 2C2211	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 14 OF 17

USERNAME => HPROCT10 DATE PLOTTED => 18-MAR-2011 TIME PLOTTED => 10:47

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	48	50

Xing Zheng
CERTIFIED ENGINEERING GEOLOGIST DATE 8-3-10

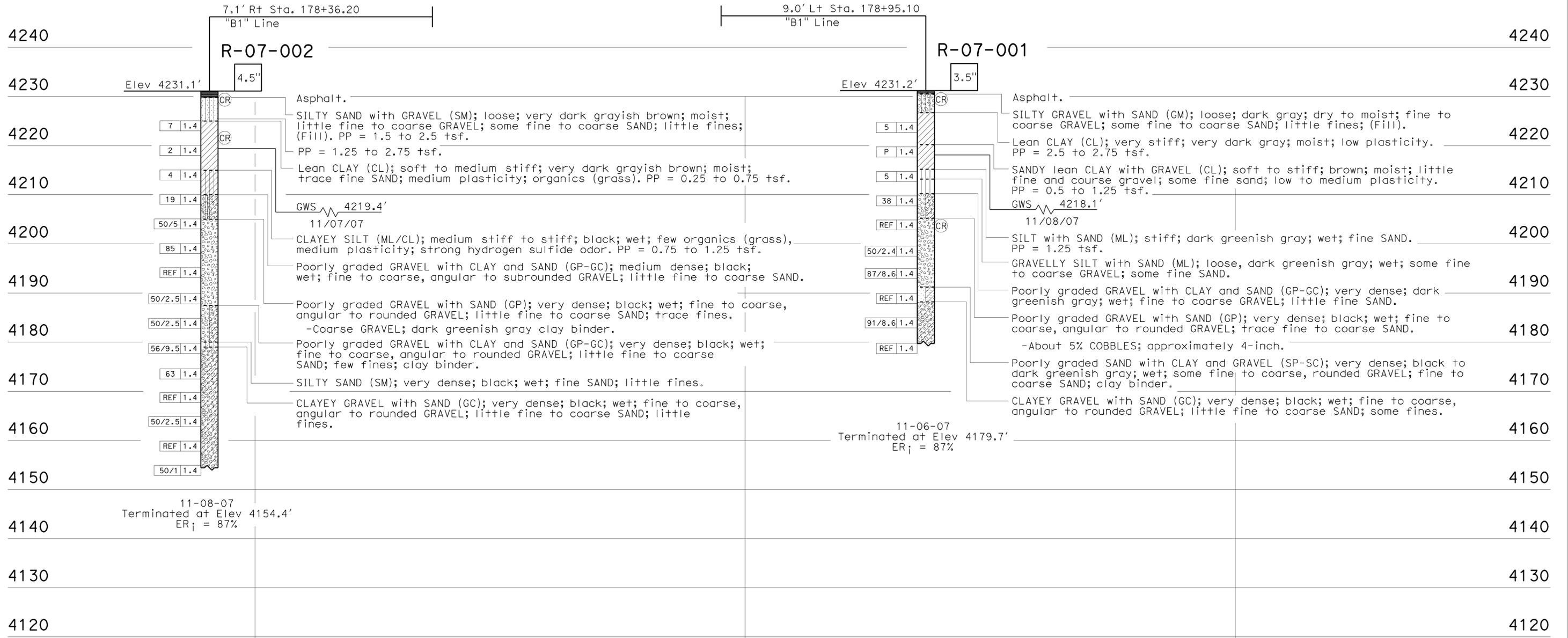
3-14-11
PLANS APPROVAL DATE

No. 2130
Exp. 3-31-11
CERTIFIED ENGINEERING GEOLOGIST

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.

KLEINFELDER INC.
3077 FITE CIR.
SACRAMENTO, CA 95827

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (June 2007).



178+00

179+00

PROFILE

180+00

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

ENGINEERING SERVICES		GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		NORTH FORK ASH CREEK BRIDGE (REPLACE)	
FUNCTIONAL SUPERVISOR		DRAWN BY: A. Sanchez		FIELD INVESTIGATION BY:		POST MILES		03-0060		LOG OF TEST BORINGS 2 OF 4	
NAME: R. Buehl		CHECKED BY: J. Kaump		J.L. Thorne		DESIGN BRANCH 3		3.38			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 03258 EA 2C2211		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET 15 OF 17	

TIME PLOTTED => 10:48 USERNAME => fmmguy DATE PLOTTED => 18-MAR-2011

GROUP SYMBOLS AND NAMES					
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	Well-graded GRAVEL		Lean CLAY Lean CLAY with SAND Lean CLAY with GRAVEL SANDY lean CLAY SANDY lean CLAY with GRAVEL GRAVELLY lean CLAY GRAVELLY lean CLAY with SAND		Well-graded GRAVEL with SAND
	GP				
	Well-graded GRAVEL with SILT		SILTY CLAY SILTY CLAY with SAND SILTY CLAY with GRAVEL SANDY SILTY CLAY SANDY SILTY CLAY with GRAVEL GRAVELLY SILTY CLAY GRAVELLY SILTY CLAY with SAND		Well-graded GRAVEL with SILT and SAND
	GW-GC				
	Poorly graded GRAVEL with SILT		SILT SILT with SAND SILT with GRAVEL SANDY SILT SANDY SILT with GRAVEL GRAVELLY SILT GRAVELLY SILT with SAND		Poorly graded GRAVEL with SILT and SAND
	GP-GC				
	SILTY GRAVEL		ORGANIC lean CLAY ORGANIC lean CLAY with SAND ORGANIC lean CLAY with GRAVEL SANDY ORGANIC lean CLAY SANDY ORGANIC lean CLAY with GRAVEL GRAVELLY ORGANIC lean CLAY GRAVELLY ORGANIC lean CLAY with SAND		SILTY GRAVEL with SAND
	GM				
	SILTY, CLAYEY GRAVEL		ORGANIC SILT ORGANIC SILT with SAND ORGANIC SILT with GRAVEL SANDY ORGANIC SILT SANDY ORGANIC SILT with GRAVEL GRAVELLY ORGANIC SILT GRAVELLY ORGANIC SILT with SAND		SILTY, CLAYEY GRAVEL with SAND
	GC-GM				
	Well-graded SAND		Fat CLAY Fat CLAY with SAND Fat CLAY with GRAVEL SANDY fat CLAY SANDY fat CLAY with GRAVEL GRAVELLY fat CLAY GRAVELLY fat CLAY with SAND		Well-graded SAND with SILT
	SP				
	Well-graded SAND with SILT and GRAVEL		Elastic SILT Elastic SILT with SAND Elastic SILT with GRAVEL SANDY elastic SILT SANDY elastic SILT with GRAVEL GRAVELLY elastic SILT GRAVELLY elastic SILT with SAND		Well-graded SAND with SILT and GRAVEL
	SW-SM				
	Poorly graded SAND with SILT		ORGANIC fat CLAY ORGANIC fat CLAY with SAND ORGANIC fat CLAY with GRAVEL SANDY ORGANIC fat CLAY SANDY ORGANIC fat CLAY with GRAVEL GRAVELLY ORGANIC fat CLAY GRAVELLY ORGANIC fat CLAY with SAND		Poorly graded SAND with SILT and GRAVEL
	SP-SM				
	Poorly graded SAND with SILT and GRAVEL		ORGANIC elastic SILT ORGANIC elastic SILT with SAND ORGANIC elastic SILT with GRAVEL SANDY ORGANIC elastic SILT SANDY ORGANIC elastic SILT with GRAVEL GRAVELLY ORGANIC elastic SILT GRAVELLY ORGANIC elastic SILT with SAND		Poorly graded SAND with CLAY (or SILTY CLAY) Poorly graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)
	SP-SC				
	CLAYEY SAND		ORGANIC fat CLAY ORGANIC fat CLAY with SAND ORGANIC fat CLAY with GRAVEL SANDY ORGANIC fat CLAY SANDY ORGANIC fat CLAY with GRAVEL GRAVELLY ORGANIC fat CLAY GRAVELLY ORGANIC fat CLAY with SAND		CLAYEY SAND with GRAVEL
	SC				
	SILTY, CLAYEY SAND		ORGANIC SOIL ORGANIC SOIL with SAND ORGANIC SOIL with GRAVEL SANDY ORGANIC SOIL SANDY ORGANIC SOIL with GRAVEL GRAVELLY ORGANIC SOIL GRAVELLY ORGANIC SOIL with SAND		SILTY, CLAYEY SAND with GRAVEL
	SC-SM				
	PEAT		ORGANIC SOIL ORGANIC SOIL with SAND ORGANIC SOIL with GRAVEL SANDY ORGANIC SOIL SANDY ORGANIC SOIL with GRAVEL GRAVELLY ORGANIC SOIL GRAVELLY ORGANIC SOIL with SAND		COBBLES COBBLES and BOULDERS BOULDERS
	COBBLES COBBLES and BOULDERS BOULDERS				

FIELD AND LABORATORY TESTING	
(C)	Consolidation (ASTM D 2435)
(CL)	Collapse Potential (ASTM D 5333)
(CP)	Compaction Curve (CTM 216)
(CR)	Corrosivity Testing (CTM 643, CTM 422, CTM 417)
(CU)	Consolidated Undrained Triaxial (ASTM D 4767)
(DS)	Direct Shear (ASTM D 3080)
(EI)	Expansion Index (ASTM D 4829)
(M)	Moisture Content (ASTM D 2216)
(OC)	Organic Content-% (ASTM D 2974)
(P)	Permeability (CTM 220)
(PA)	Particle Size Analysis (ASTM D 422)
(PI)	Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89)
(PL)	Point Load Index (ASTM D 5731)
(PM)	Pressure Meter
(PP)	Pocket Penetrometer
(R)	R-Value (CTM 301)
(SE)	Sand Equivalent (CTM 217)
(SG)	Specific Gravity (AASHTO T 100)
(SL)	Shrinkage Limit (ASTM D 427)
(SW)	Swell Potential (ASTM D 4546)
(TV)	Pocket Torvane
(UC)	Unconfined Compression-Soil (ASTM D 2166) Unconfined Compression-Rock (ASTM D 2938)
(UU)	Unconsolidated Undrained Triaxial (ASTM D 2850)
(UW)	Unit Weight (ASTM D 4767)
(VS)	Vane Shear (AASHTO T 223)

8-3-10
DATE

Xing Zheng
CERTIFIED ENGINEERING GEOLOGIST

3-14-11
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.

KLEINFELDER INC.
3077 FITE CIR.
SACRAMENTO, CA 95827

Xing Zheng
No. 2130
Exp. 3-31-11
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

APPARENT DENSITY OF COHESIONLESS SOILS	
Description	SPT N ₆₀ (Blows / 12 inches)
Very loose	0 - 4
Loose	5 - 10
Medium Dense	11 - 30
Dense	31 - 50
Very Dense	> 50

MOISTURE	
Description	Criteria
Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

PERCENT OR PROPORTION OF SOILS	
Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5 to 10%
Little	15 to 25%
Some	30 to 45%
Mostly	50 to 100%

PARTICLE SIZE		
Description	Size	
Boulder	> 12"	
Cobble	3" to 12"	
Gravel	Coarse	3/4" to 3"
	Fine	No. 4 to 3/4"
Sand	Coarse	No. 10 to No. 4
	Medium	No. 40 to No. 10
	Fine	No. 200 to No. 40

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	Mod	299	3.4	50	50

 8-3-10
 CERTIFIED ENGINEERING GEOLOGIST DATE

3-14-11
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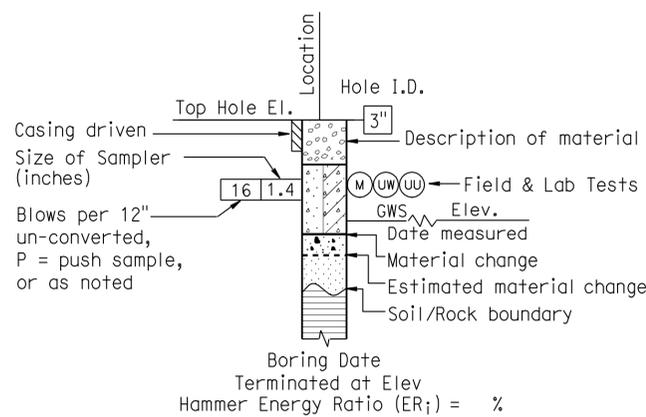
CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

CONSISTENCY OF COHESIVE SOILS				
Description	Unconfined Compressive Strength (tsf)	Pocket Penetrometer Measurement (tsf)	Torvane Measurement (tsf)	Field Approximation
Very Soft	< 0.25	< 0.25	< 0.12	Easily penetrated several inches by fist
Soft	0.25 to 0.50	0.25 to 0.50	0.12 to 0.25	Easily penetrated several inches by thumb
Medium Stiff	0.50 to 1.0	0.50 to 1.0	0.25 to 0.50	Penetrated several inches by thumb with moderate effort
Stiff	1 to 2	1 to 2	0.50 to 1.0	Readily indented by thumb but penetrated only with great effort
Very Stiff	2 to 4	2 to 4	1.0 to 2.0	Readily indented by thumbnail
Hard	> 4.0	> 4.0	> 2.0	Indented by thumbnail with difficulty

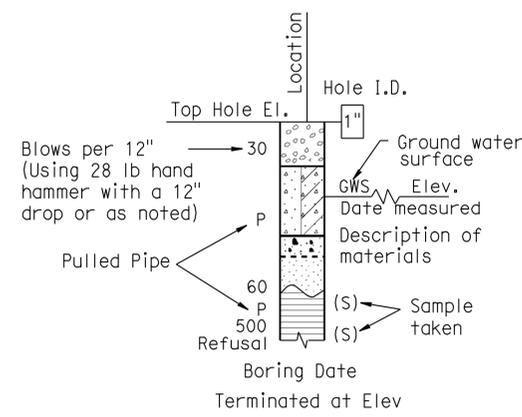
BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring
	R	Rotary drilled boring
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778-95)
	O	Other

Note: Size in inches.

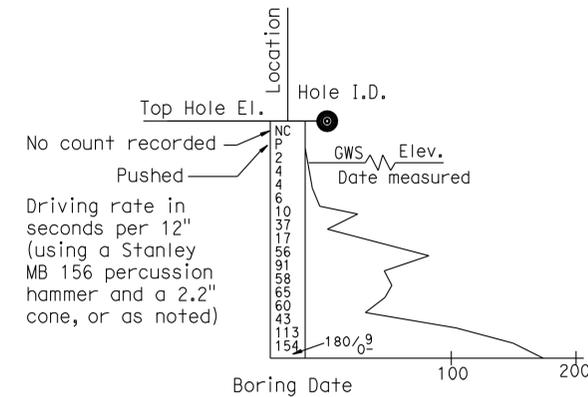
PLASTICITY OF FINE-GRAINED SOILS	
Description	Criteria
Nonplastic	A 1/8-inch thread cannot be rolled at any water content.
Low	The thread can barely be rolled and the lump cannot be formed when drier than the plastic limit.
Medium	The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump crumbles when drier than the plastic limit.
High	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump can be formed without crumbling when drier than the plastic limit.



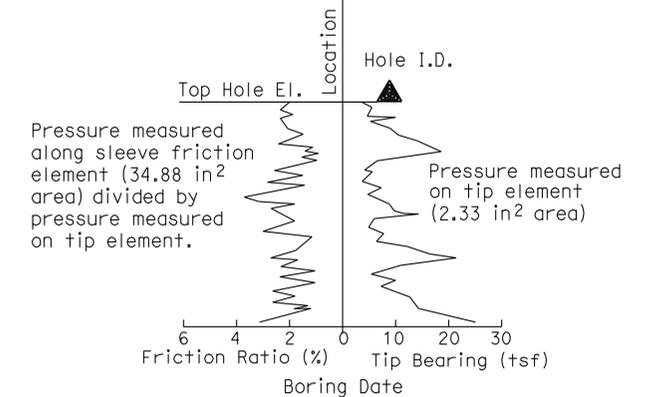
ROTARY BORING



HAND BORING



DYNAMIC CONE PENETRATION BORING



CONE PENETRATION TEST (CPT) SOUNDING

ENGINEERING SERVICES	GEOTECHNICAL SERVICES	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 03-0060	NORTH FORK ASH CREEK BRIDGE (REPLACE)
PREPARED BY A. Sanchez		DEPARTMENT OF TRANSPORTATION	STRUCTURE DESIGN	POST MILE 3.38	LOG OF TEST BORINGS 4 OF 4
CHECKED BY J. Kaump			DESIGN BRANCH 3		
GS LOTB SOIL LEGEND	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 03258 EA 2C2211	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 1-08-10 3-30-10 4-10-10 6-24-10 8-9-10
			FILE => 03-0060-x-1+tb4.dgn	SHEET 17 OF 17	

USERNAME => hrmguys DATE PLOTTED => 18-MAR-2011 TIME PLOTTED => 1:31:20