

INDEX OF PLANS

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

STATE OF CALIFORNIA  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN THE CITY AND COUNTY OF SAN FRANCISCO**  
**AND SAN MATEO COUNTY**  
**AT VARIOUS LOCATIONS**

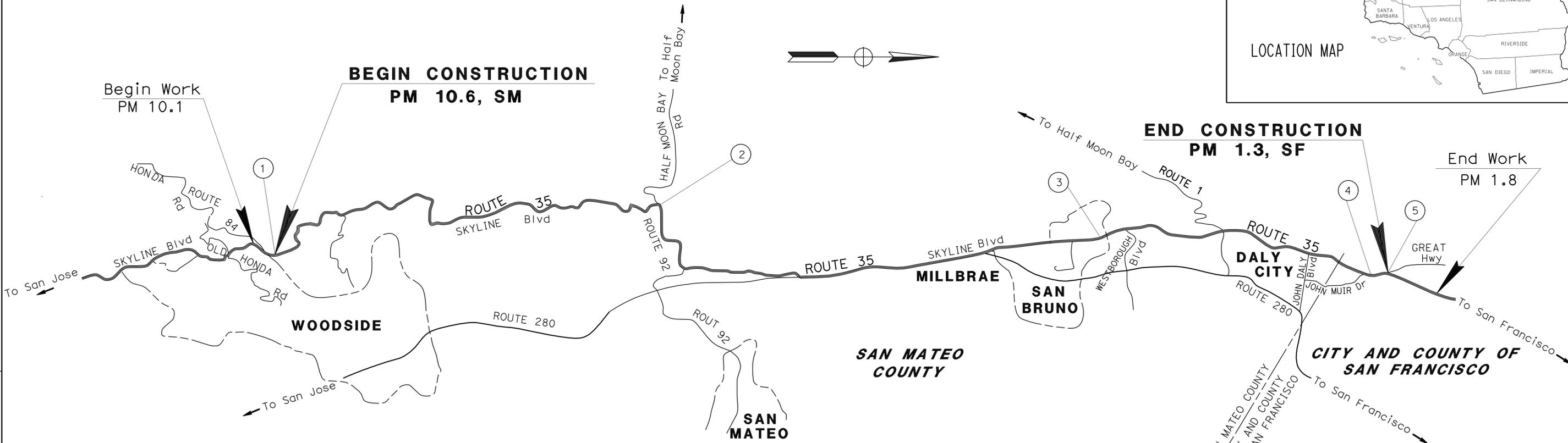
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	1	27





LOCATION MAP

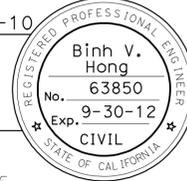


**LOCATIONS OF CONSTRUCTION**

LOCATION	COUNTY	Rte	PM
①	SM	35	10.7
②	SM	35	23.0
③	SM	35	25.8
④	SF	35	1.0
⑤	SF	35	1.3

PROJECT MANAGER  
**RAMSES SARGISS**  
 DESIGN ENGINEER  
**VIJITH THILAKARATNE**

  
 PROJECT ENGINEER  
 REGISTERED CIVIL ENGINEER  
 DATE **8-10-10**  
**October 25, 2010**  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



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

NO SCALE



USERNAME => s120496  
 DGN FILE => 0400000560ab001.dgn

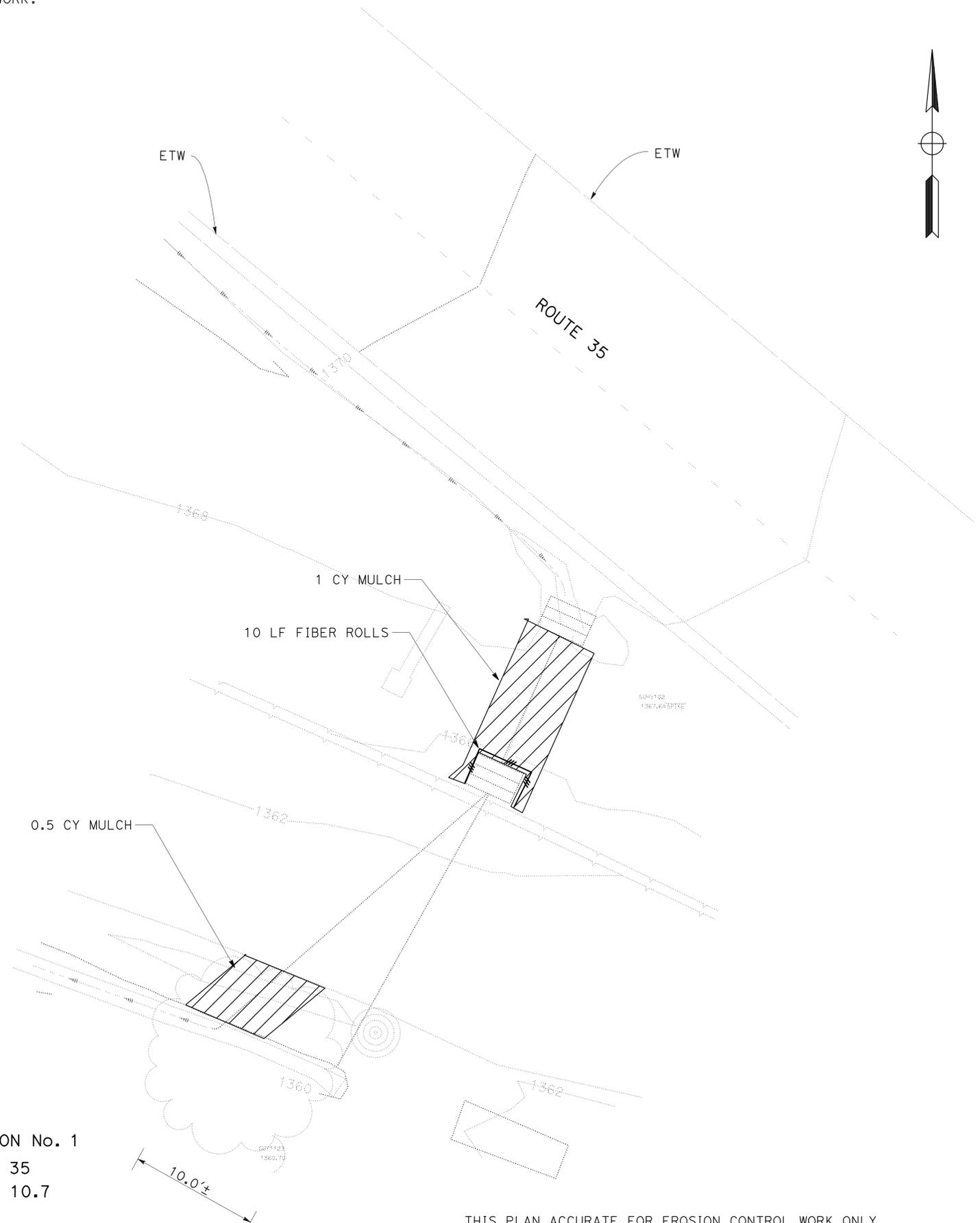
CONTRACT No.	<b>04-1E5704</b>
PROJECT ID	<b>0400000560</b>

DATE PLOTTED => 26-OCT-2010  
 TIME PLOTTED => 11:33  
 10-21-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY  
 SENIOR LANDSCAPE ARCHITECT DAVID W. YAM  
 LAURIE J. SMITH ALEX McDONALD  
 LJS 5/17/10

**NOTE:**  
 RIGHT OF WAY LIMITS ARE INDETERMINATE, AND ARE NOT SHOWN.  
 THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE  
 DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.

- LEGEND:**
-  MULCH
  -  EROSION CONTROL (TYPE 1)
  -  EROSION CONTROL (COMPOST BLANKET)
  -  ROLLED EROSION CONTROL PRODUCT (NETTING)
  -  EROSION CONTROL (HYDROSEED)
  -  EROSION CONTROL (TYPE 2)
  -  EROSION CONTROL (COMPOST BLANKET)
  -  EROSION CONTROL (HYDROSEED)
  -  EROSION CONTROL (COMPOST BLANKET)
  -  FIBER ROLLS



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	2	27

10-25-10  
 PLANS APPROVAL DATE

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



LOCATION No. 1  
 SM 35  
 PM 10.7

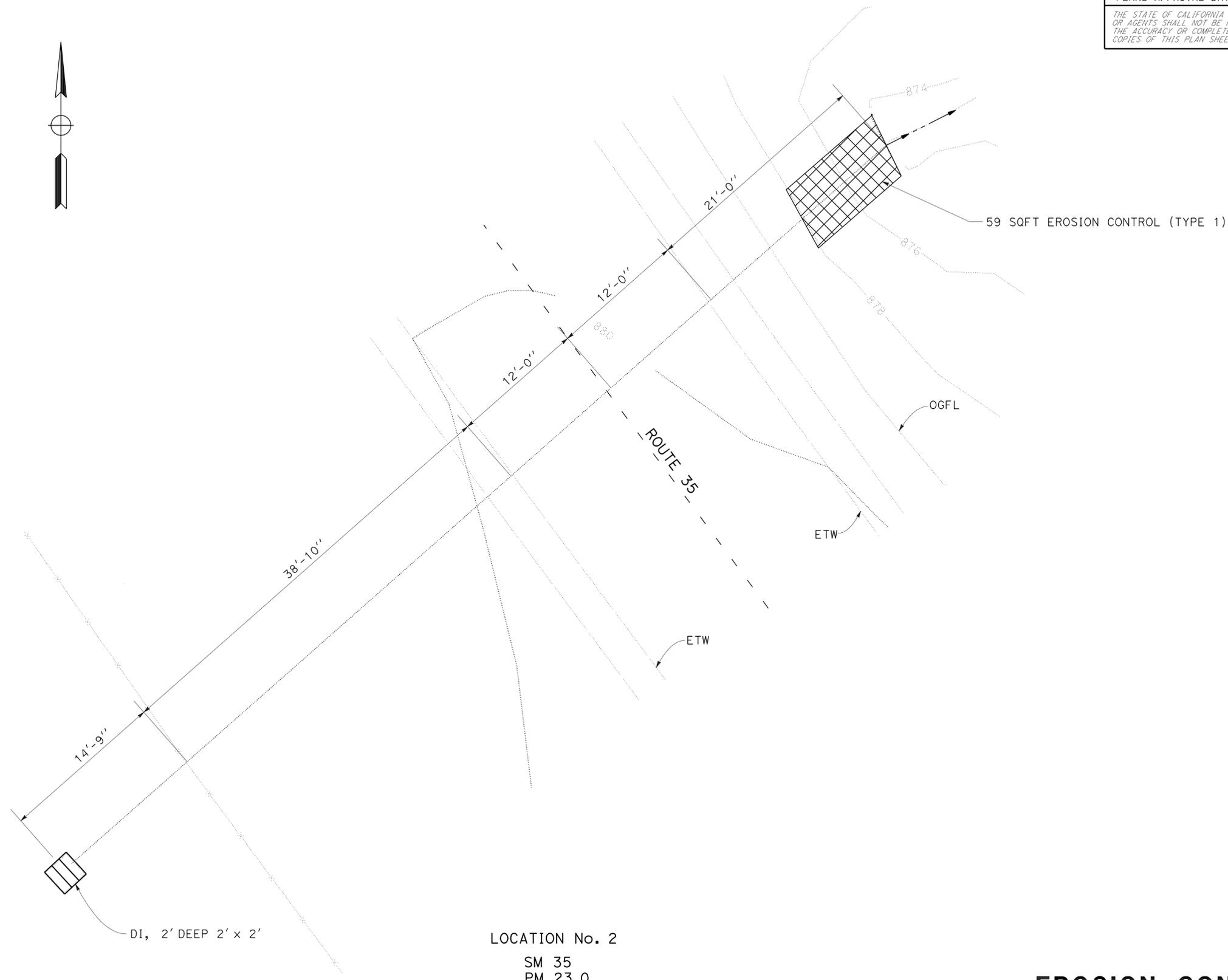
**EROSION CONTROL PLAN**  
 SCALE: 1" = 20'

**EC-1**

LAST REVISION DATE PLOTTED => 26-OCT-2010 10-12-10 TIME PLOTTED => 11:33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY  
 SENIOR LANDSCAPE ARCHITECT  
 DAVID W. YAM  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 LAURIE J. SMITH  
 ALEX McDONALD  
 REVISED BY  
 DATE REVISED  
 LJS  
 5/17/10

**NOTE:**  
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 THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE  
 DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	3	27

Laurie J. Smith  
 LICENSED LANDSCAPE ARCHITECT  
 10-25-10  
 PLANS APPROVAL DATE

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



LOCATION No. 2  
 SM 35  
 PM 23.0

**EROSION CONTROL PLAN**  
 NO SCALE

**EC-2**

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET EC-1

THIS PLAN ACCURATE FOR EROSION CONTROL WORK ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY  
 SENIOR LANDSCAPE ARCHITECT  
 DAVID W. YAM  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 LAURIE J. SMITH  
 ALEX McDONALD  
 REVISED BY  
 DATE REVISED  
 LJS  
 5/17/10

**NOTE:**  
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 DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.

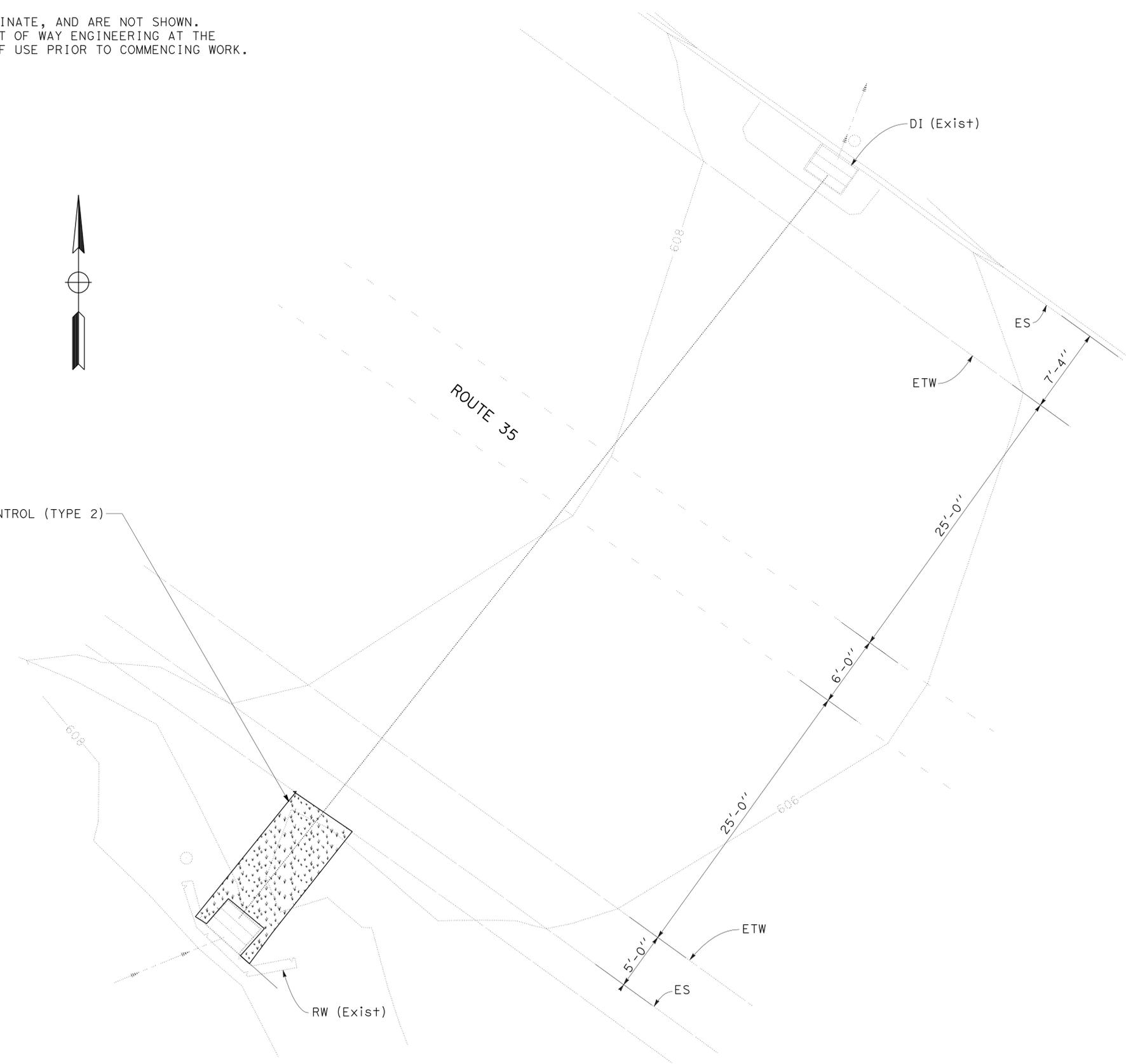
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	4	27

10-25-10  
 PLANS APPROVAL DATE

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



72 SQFT EROSION CONTROL (TYPE 2)



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET EC-1

LOCATION No. 3  
 SM 35  
 PM 25.8

THIS PLAN ACCURATE FOR EROSION CONTROL WORK ONLY

**EROSION CONTROL PLAN**  
 NO SCALE

**EC-3**

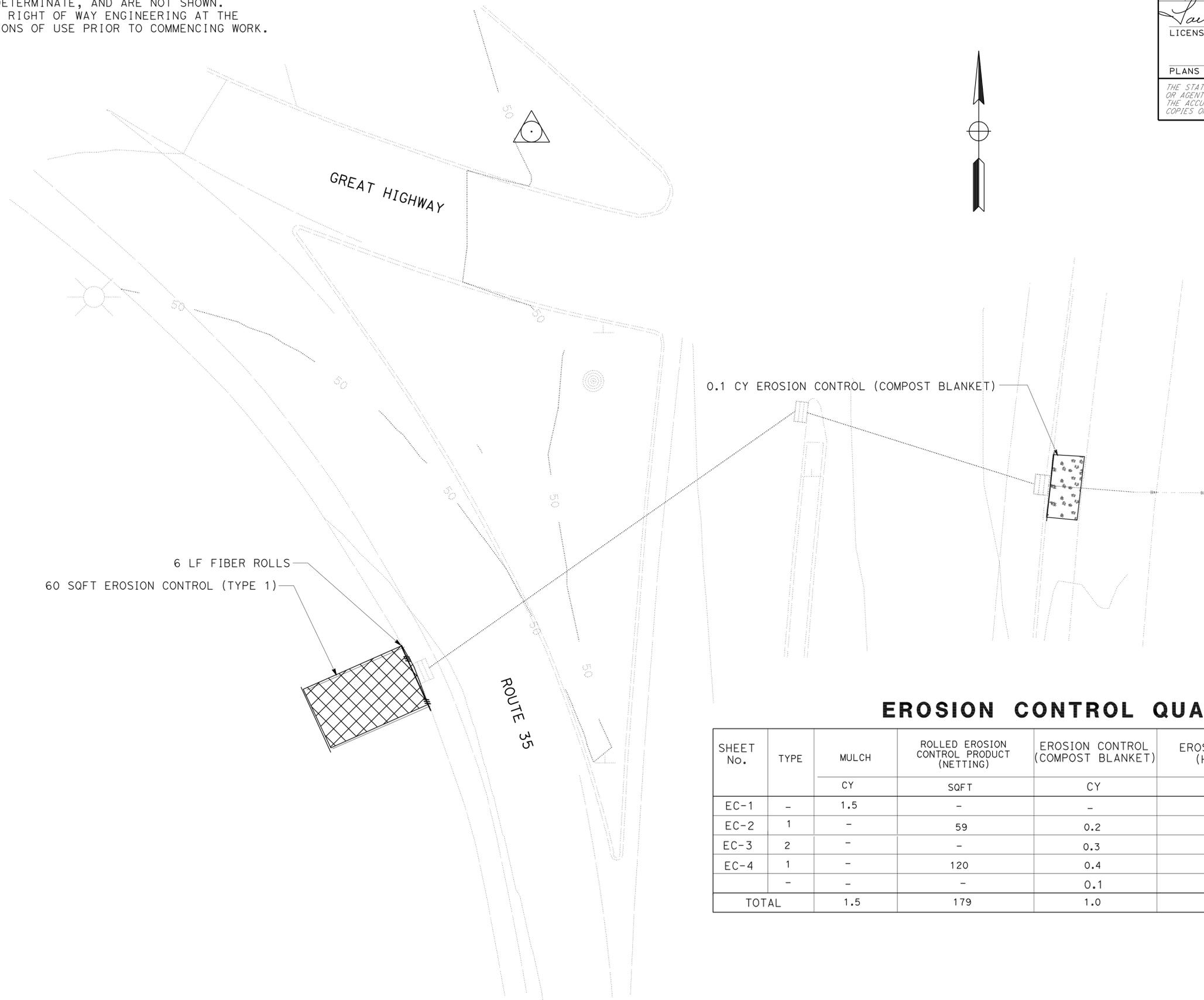


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	5	27

Signature: *Laurie J. Smith*  
 LICENSED LANDSCAPE ARCHITECT  
 10-25-10  
 PLANS APPROVAL DATE

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**NOTE:**  
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**EROSION CONTROL QUANTITIES**

SHEET No.	TYPE	MULCH	ROLLED EROSION CONTROL PRODUCT (NETTING)	EROSION CONTROL (COMPOST BLANKET)	EROSION CONTROL (HYDROSEED)	FIBER ROLLS
		CY	SQFT	CY	SQFT	LF
EC-1	-	1.5	-	-	-	10
EC-2	1	-	59	0.2	59	-
EC-3	2	-	-	0.3	72	-
EC-4	1	-	120	0.4	120	12
	-	-	-	0.1	-	-
<b>TOTAL</b>		1.5	179	1.0	251	22

LOCATION No. 5  
 SM 35  
 PM 1.3

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET EC-1

THIS PLAN ACCURATE FOR EROSION CONTROL WORK ONLY

**EROSION CONTROL PLAN**  
 NO SCALE

**EC-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans** WATER QUALITY

SENIOR LANDSCAPE ARCHITECT: DAVID W. YAM

CHECKED BY: ALEX McDONALD

DESIGNED BY: LAURIE J. SMITH

REVISOR: LJS

DATE: 5/17/10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN

JBL  
 7/12/10

REVISED BY  
 DATE REVISED

JOSE B. LAU  
 BINH V. HONG

CALCULATED-DESIGNED BY  
 CHECKED BY

FUNCTIONAL SUPERVISOR  
 VIJITH THILAKARATNE

**NOTE:**  
 RIGHT OF WAY LIMITS ARE INDETERMINATE, AND ARE NOT SHOWN.  
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 DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.

- LEGEND:**
- No. DRAINAGE SYSTEM NUMBER
  - a DRAINAGE UNIT
  - No. CULVERT INLET/OUTLET POINTS
- ABBREVIATIONS:**
- OGFL ORIGINAL GROUND FLOW LINE
  - PG&E PACIFIC GAS AND ELECTRIC

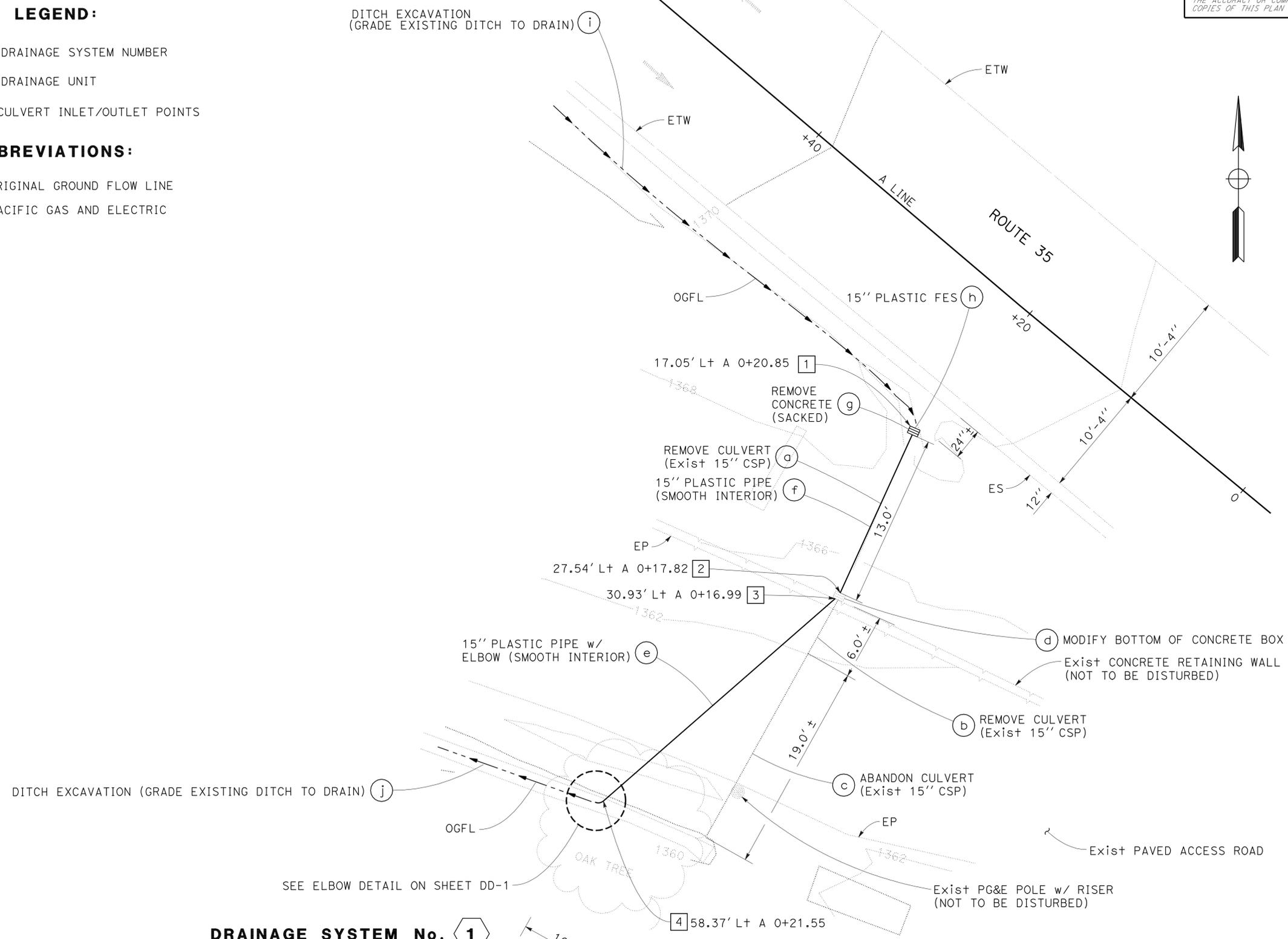
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	6	27

8-10-10  
 REGISTERED CIVIL ENGINEER DATE

10-25-10  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Binh V. Hong  
 No. 63850  
 Exp. 9-30-12  
 CIVIL  
 STATE OF CALIFORNIA

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



**DRAINAGE SYSTEM No. 1**  
**LOCATION 1**  
 SM 35  
 PM 10.7

THIS PLAN FOR DRAINAGE WORK ONLY

**DRAINAGE PLAN**  
 SCALE: 1" = 20'

**D-1**

LAST REVISION | DATE PLOTTED => 26-OCT-2010 | 10-20-10 | TIME PLOTTED => 11:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	7	27

<i>Binh V. Hong</i>	8-10-10
REGISTERED CIVIL ENGINEER	DATE
10-25-10	
PLANS APPROVAL DATE	

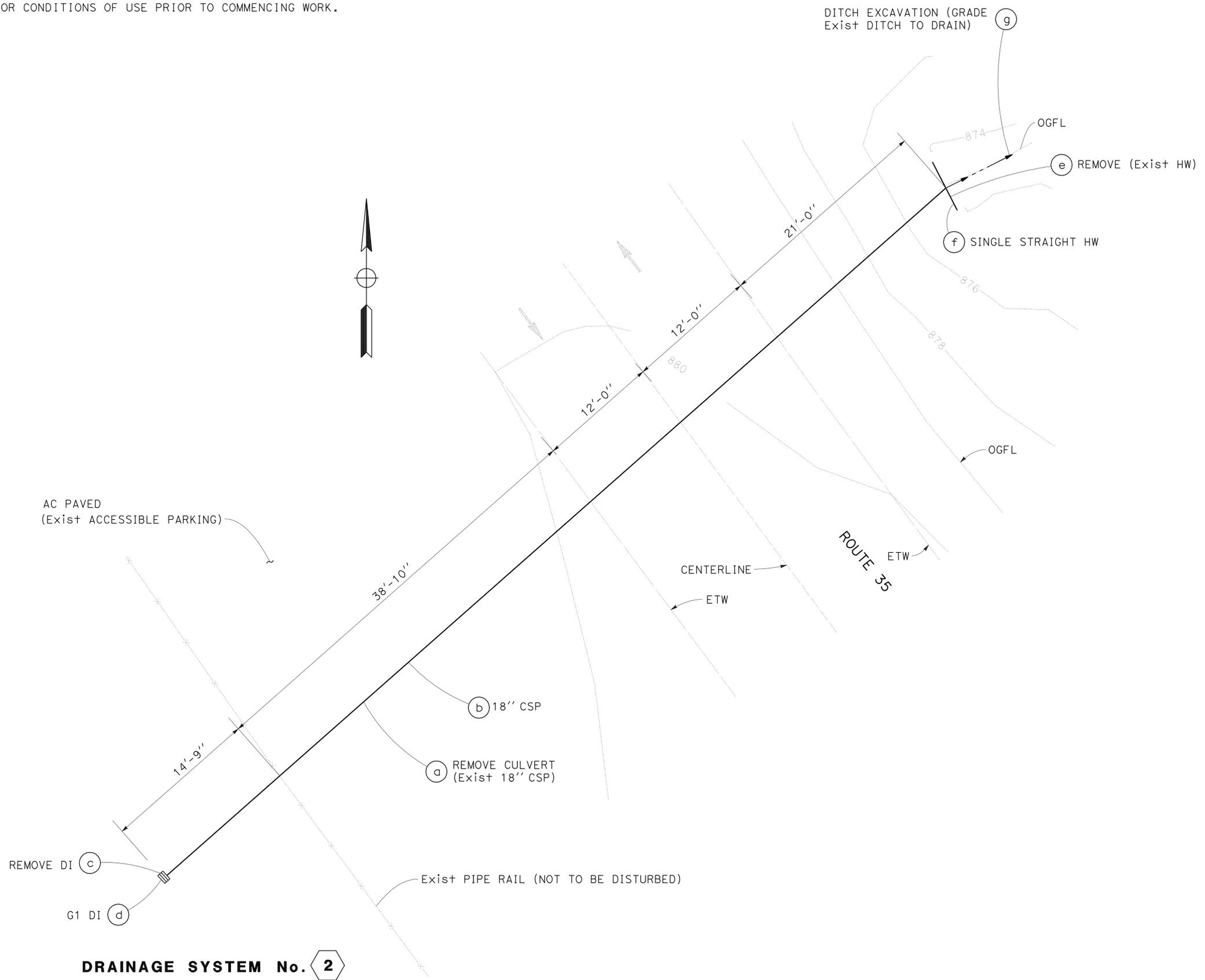
  

REGISTERED PROFESSIONAL ENGINEER
Binh V. Hong
No. 63850
Exp. 9-30-12
CIVIL

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
<b>Caltrans</b>
DESIGN
FUNCTIONAL SUPERVISOR
VIJITH THILAKARATNE
CALCULATED/DESIGNED BY
CHECKED BY
JOSE B. LAU
BINH V. HONG
REVISOR BY
DATE REVISED
JBL
7/12/10



**DRAINAGE SYSTEM No. 2**  
**LOCATION 2**  
**SM 35**  
**PM 23.0**

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET D-1



THIS PLAN FOR DRAINAGE WORK ONLY

**DRAINAGE PLAN**  
 SCALE: 1" = 20'

**D-2**

LAST REVISION DATE PLOTTED => 26-OCT-2010 10-20-10 TIME PLOTTED => 11:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	8	27

<i>Binh V. Hong</i>	8-10-10
REGISTERED CIVIL ENGINEER	DATE
Binh V. Hong	
No. 63850	
Exp. 9-30-12	
CIVIL	

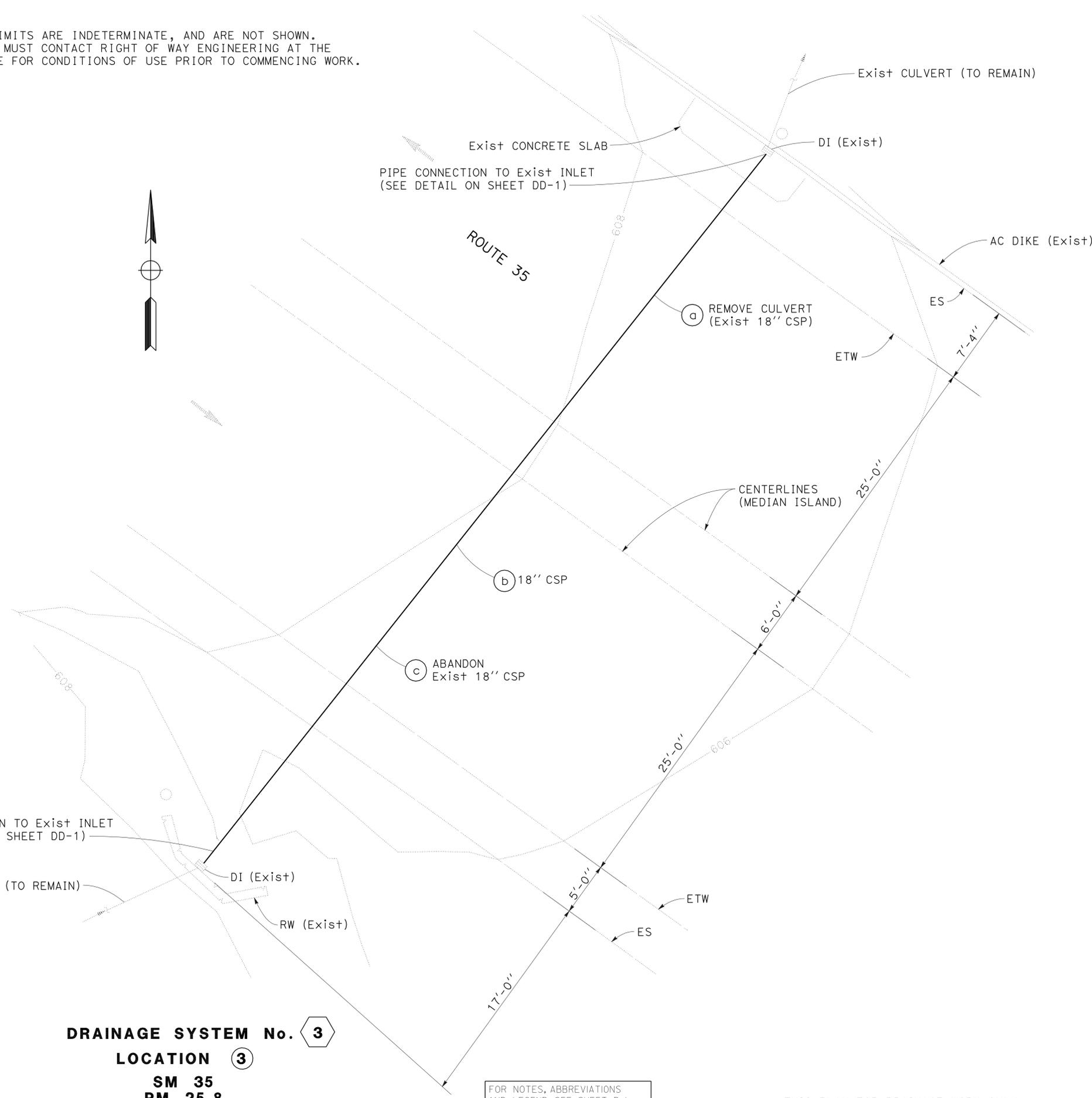
  

10-25-10
PLANS APPROVAL DATE

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 THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	VIJITH THILAKARATNE
CALCULATED/DESIGNED BY	CHECKED BY
JOSE B. LAU	BINH V. HONG
REVISOR BY	DATE REVISED
JBL	7/12/10



**DRAINAGE SYSTEM No. 3**  
**LOCATION 3**  
**SM 35**  
**PM 25.8**

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET D-1

THIS PLAN FOR DRAINAGE WORK ONLY

**DRAINAGE PLAN**  
 SCALE: 1" = 20'

**D-3**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR	DATE
<b>Caltrans</b>	VIJITH THILAKARATNE	JOSE B. LAU	JBL	7/12/10
<b>DESIGN</b>	CHECKED BY	BINH V. HONG		

**NOTE:**

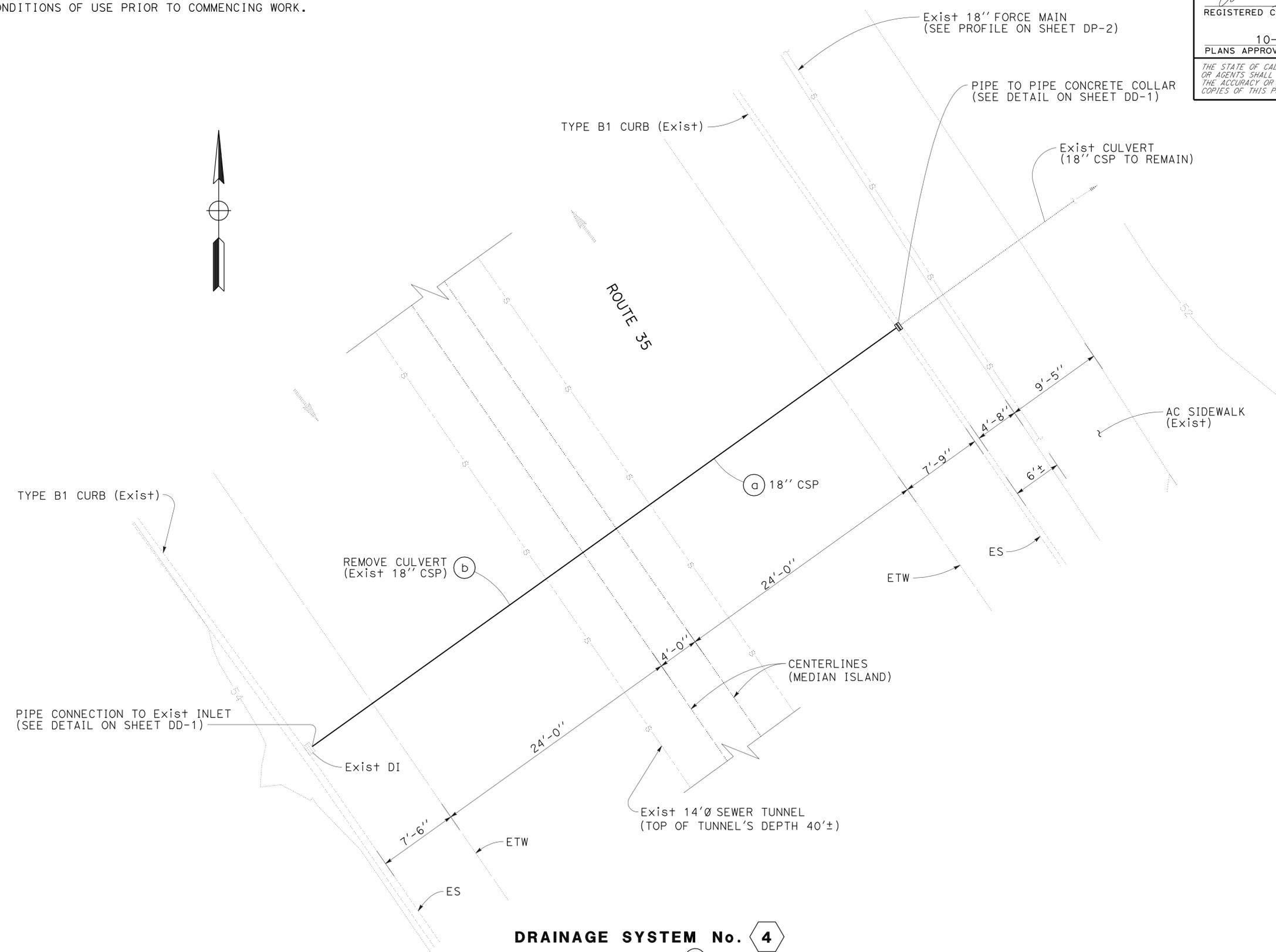
RIGHT OF WAY LIMITS ARE INDETERMINATE, AND ARE NOT SHOWN. THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	9	27

REGISTERED CIVIL ENGINEER DATE 8-10-10  
 10-25-10  
 PLANS APPROVAL DATE

BINH V. HONG  
 No. 63850  
 Exp. 9-30-12  
 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.



**DRAINAGE SYSTEM No. 4**  
**LOCATION 4**  
**SF 35**  
**PM 1.0**

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET D-1

THIS PLAN FOR DRAINAGE WORK ONLY

**DRAINAGE PLAN**  
 SCALE: 1" = 20'

**D-4**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN

FUNCTIONAL SUPERVISOR: VIJITH THILAKARATNE  
 CHECKED BY: [Blank]  
 DESIGNED BY: [Blank]  
 REVISIONS:  
 7/12/10 JBL  
 7/12/10 JBL

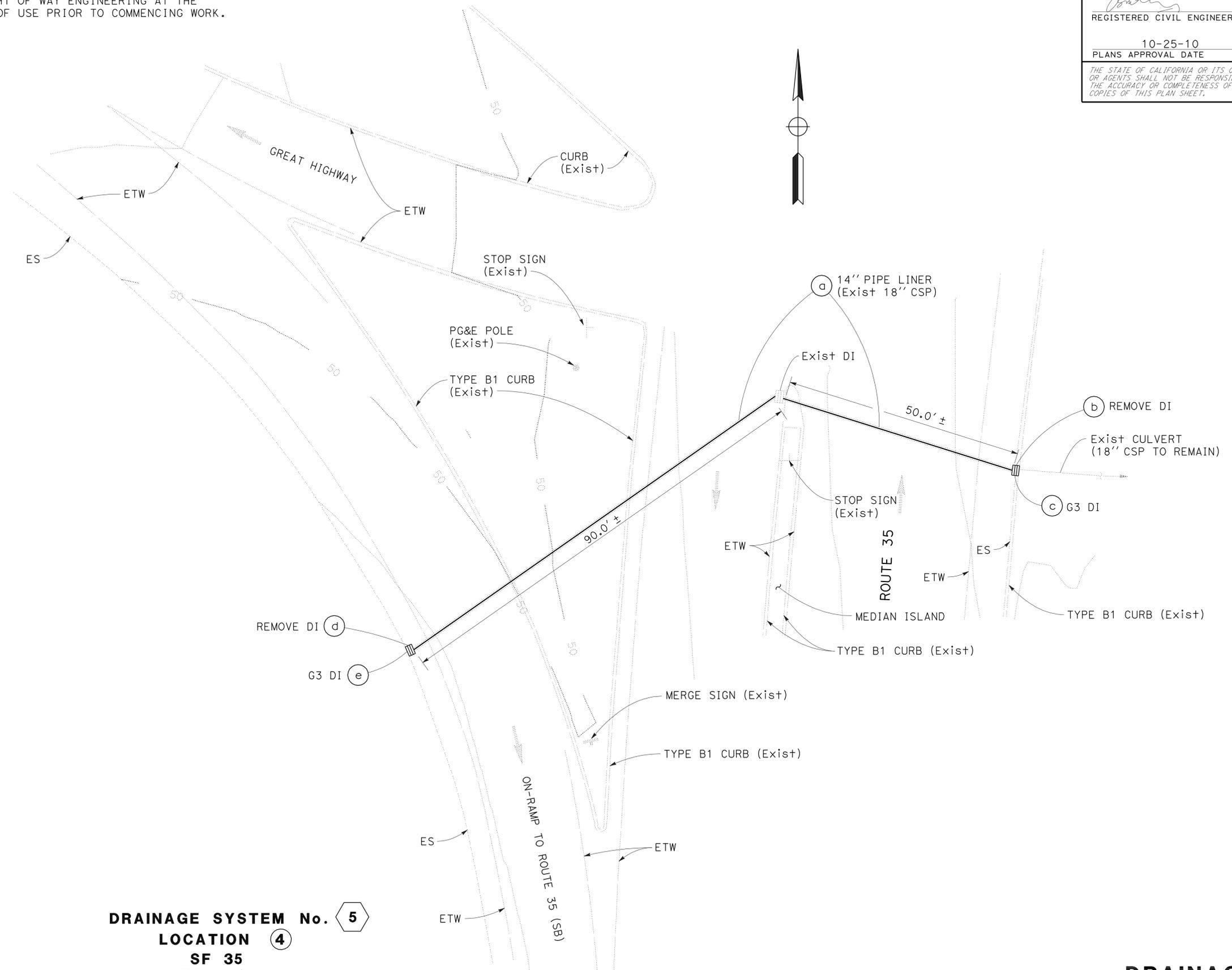
**NOTE:**  
 RIGHT OF WAY LIMITS ARE INDETERMINATE, AND ARE NOT SHOWN.  
 THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE  
 DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	10	27

8-10-10  
 REGISTERED CIVIL ENGINEER DATE  
 10-25-10  
 PLANS APPROVAL DATE

**Binh V. Hong**  
 No. 63850  
 Exp. 9-30-12  
 CIVIL  
 STATE OF CALIFORNIA

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



**DRAINAGE SYSTEM No. 5**  
**LOCATION 4**  
**SF 35**  
**PM 1.3**

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET D-1

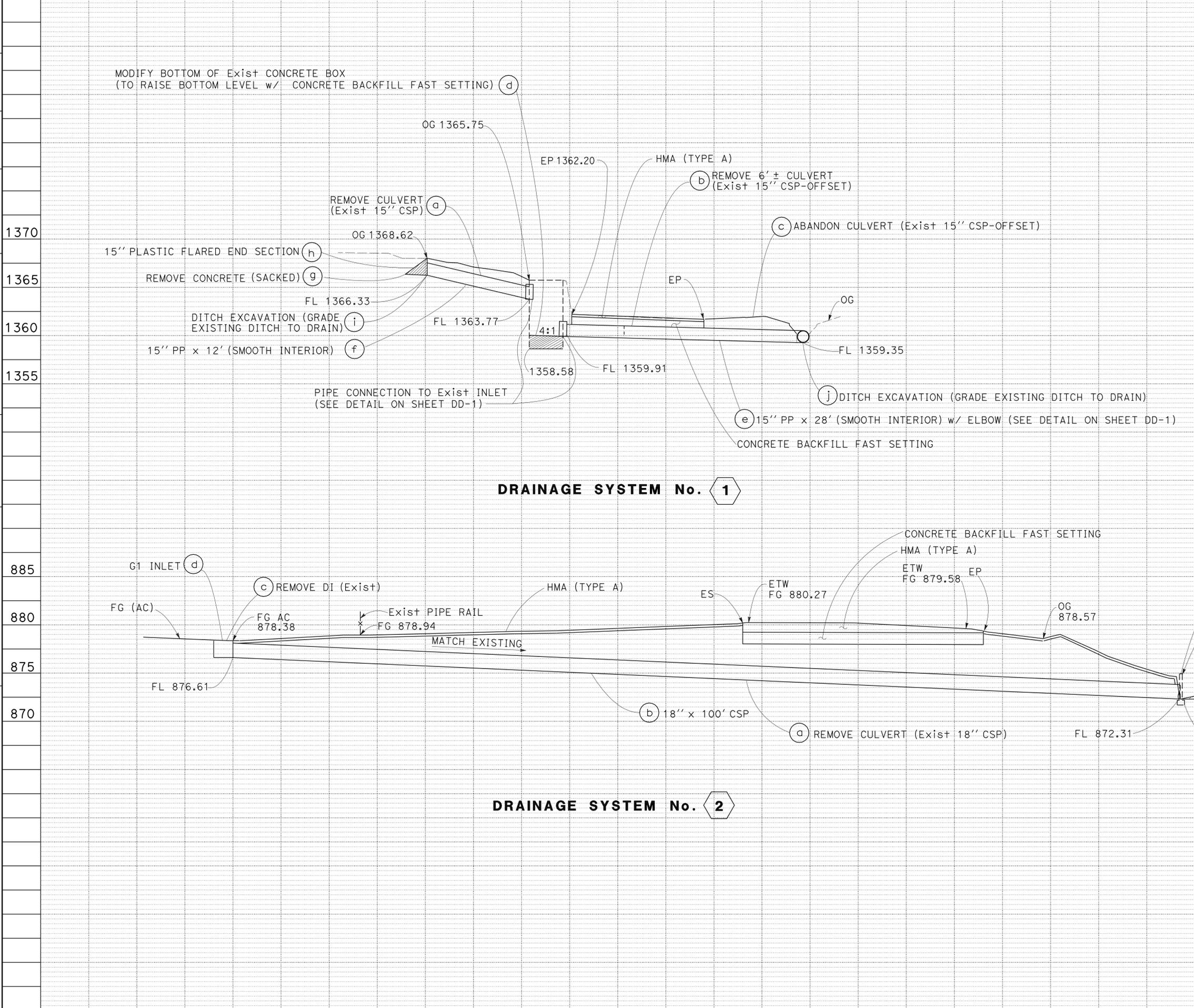
THIS PLAN FOR DRAINAGE WORK ONLY

**DRAINAGE PLAN**  
 SCALE: 1" = 20'

**D-5**

LAST REVISION DATE PLOTTED => 26-OCT-2010 10-20-10 TIME PLOTTED => 11:34

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	11	27
			8-10-10	DATE	
			10-25-10	PLANS APPROVAL DATE	
REGISTERED CIVIL ENGINEER BINH V. HONG No. 63850 Exp. 9-30-12 CIVIL					

BORDER LAST REVISED 7/2/2010

USERNAME => s120496  
 DGN FILE => 04000005601b001.dgn



UNIT 0976

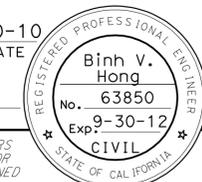
PROJECT NUMBER & PHASE

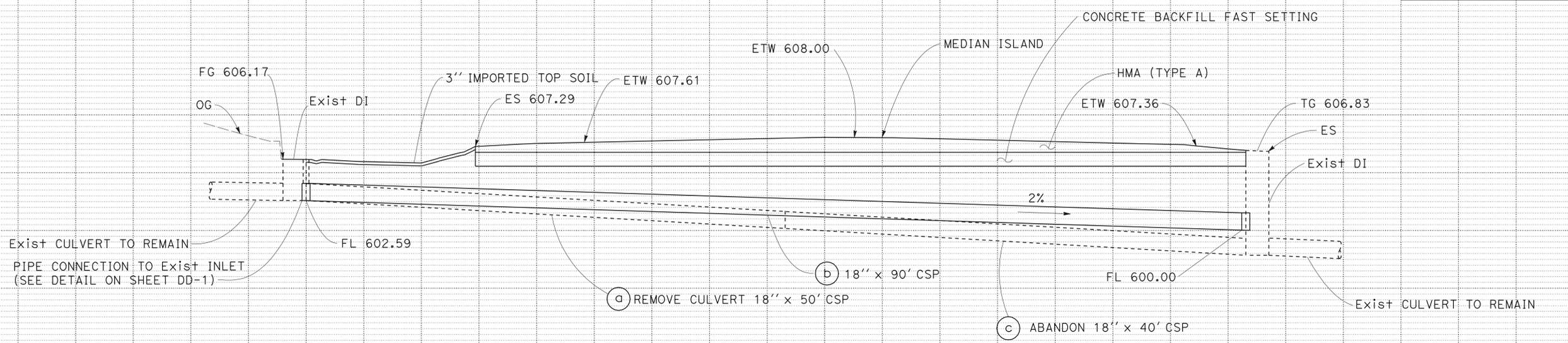
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**DRAINAGE PROFILES**  
 SCALE: HORIZ 1" = 5'  
 VERT 1" = 5'  
**DP-1**

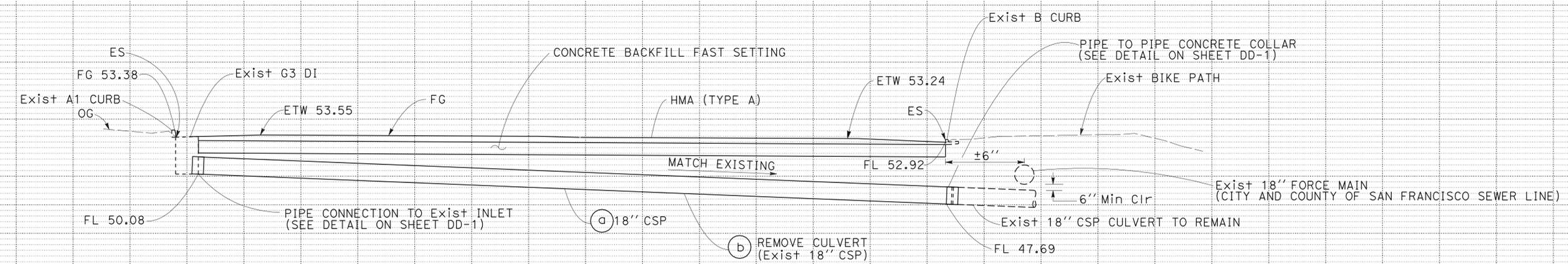
LAST REVISION DATE PLOTTED => 26-OCT-2010  
 10-06-10 TIME PLOTTED => 11:35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR  
 VIJITH THILAKARATNE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 JOSE B. LAU  
 BINH V. HONG  
 REVISED BY  
 DATE REVISED  
 JBL  
 7/12/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	12	27
 REGISTERED CIVIL ENGINEER			8-10-10	DATE	
PLANS APPROVAL DATE 10-25-10					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
					



**DRAINAGE SYSTEM No. 3**



**DRAINAGE SYSTEM No. 4**

**DRAINAGE PROFILES**

SCALE: HORIZ 1" = 5'  
 VERT 1" = 5'

**DP-2**





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	15	27

*J. L. Struven* 8-16-10  
 REGISTERED CIVIL ENGINEER DATE  
 10-25-10  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Jerilyn L. Struven  
 No. 49964  
 Exp. 2-31-10  
 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.

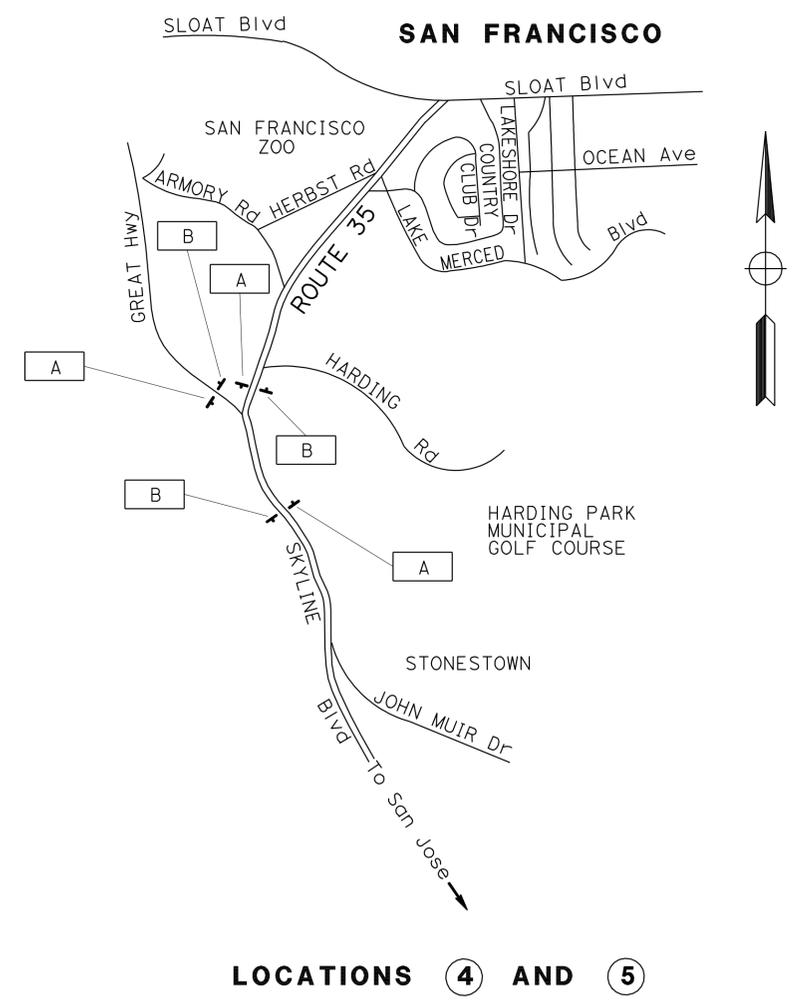
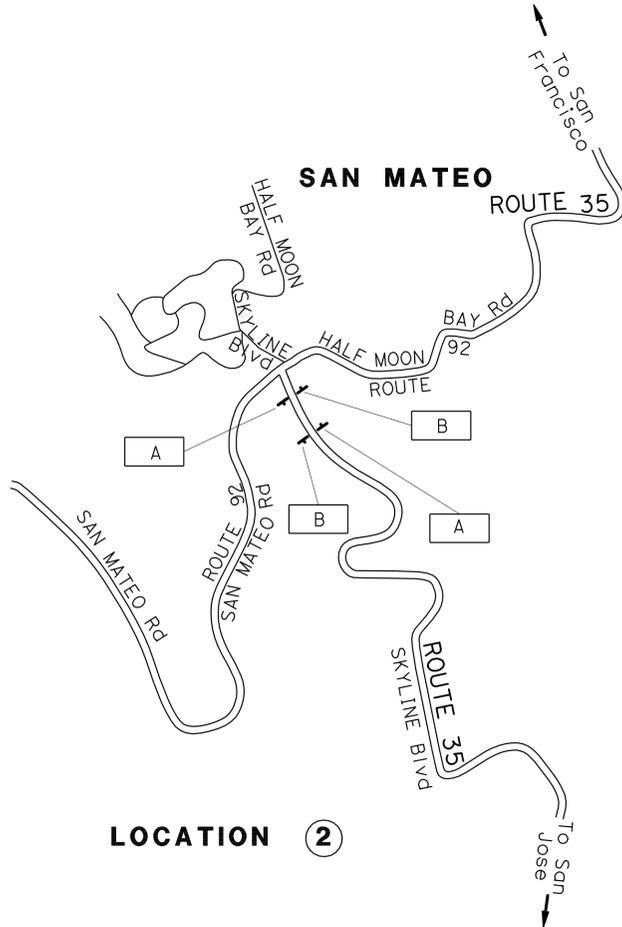
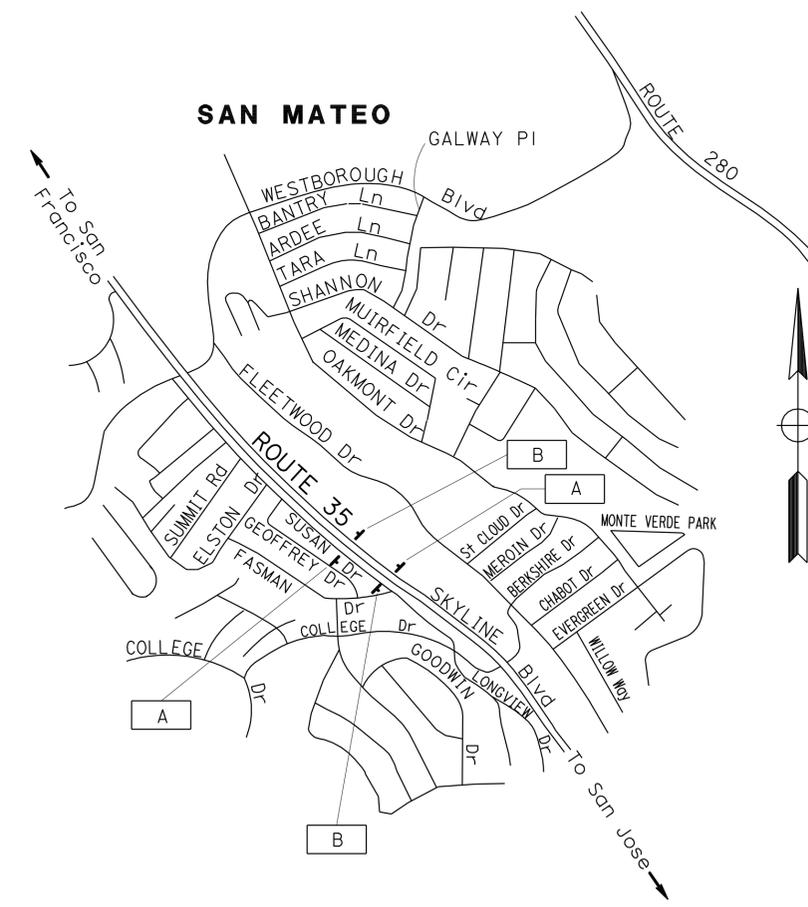
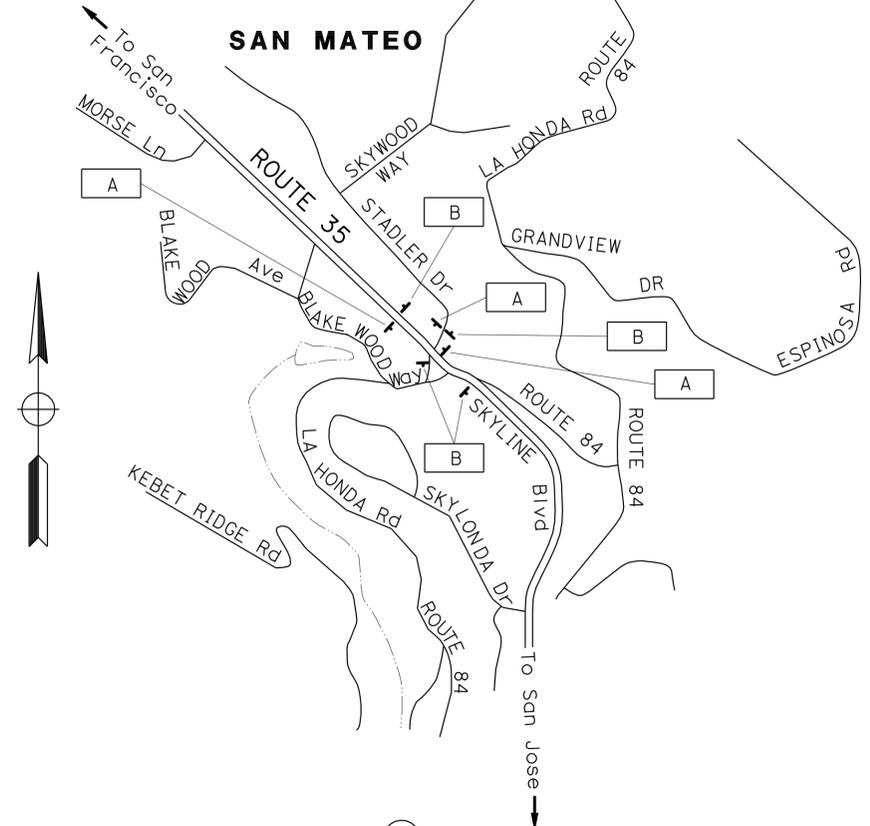
### STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE FEDERAL CALIFORNIA	MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
A	W20-1	ROAD WORK AHEAD	48" x 48"	1 - 4" x 6"	10
B	G20-2	END ROAD WORK	36" x 18"	1 - 4" x 4"	11

#### LEGEND:

x CONSTRUCTION AREA SIGN LETTER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG  
 TRAFFIC  
 REVISIONS: HT 7/12/10  
 REVISOR: HENRY TAM  
 DESIGNER: JERILYN L. STRUVEN  
 CHECKER: [Blank]  
 SUPERVISOR: [Blank]



### CONSTRUCTION AREA SIGNS

NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

**CS-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	35	Var	16	27

 8-10-10  
 REGISTERED CIVIL ENGINEER DATE

10-25-10  
 PLANS APPROVAL DATE

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 COPIES OF THIS PLAN SHEET.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR  
 VIJITH THILAKARATNE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 JOSE B. LAU  
 BINH V. HONG  
 REVISED BY  
 DATE REVISED  
 JBL  
 7/12/10

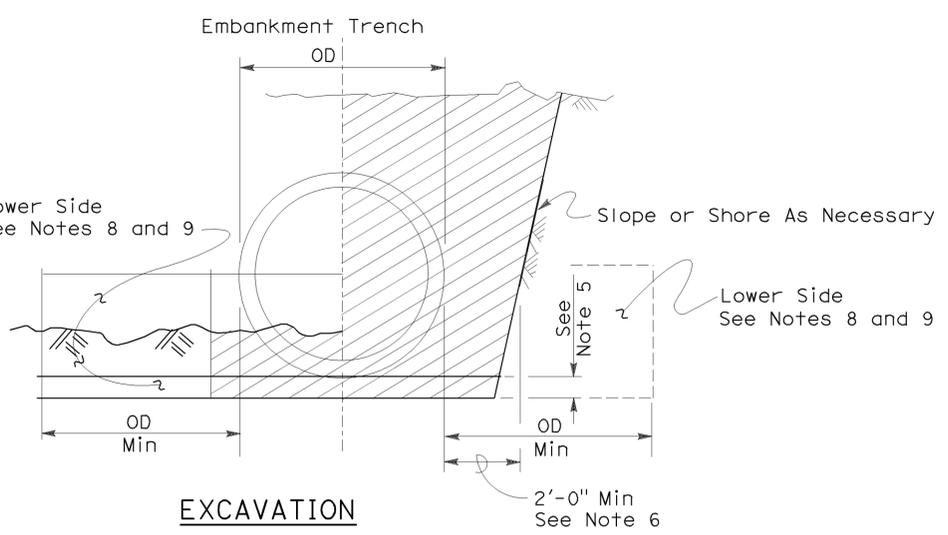
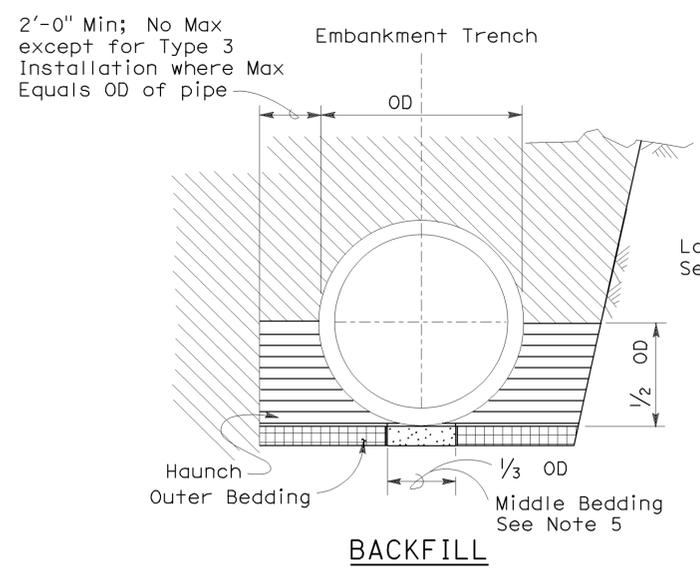
### PAVEMENT MARKER AND TRAFFIC STRIPES

LOCATION	DETAIL No.	PAVEMENT MARKER	THERMOPLASTIC TRAFFIC STRIPE		
		TYPE D	4'' YELLOW	4'' WHITE	8'' WHITE
		EA	LF		
①	27B			4	
	24			4	
②	22	2	8		
	27B			8	
③	29	2	16		
	11			8	
	27B			8	
④	29	2	16		
	11			4	
	38A				4
⑤	27B			8	
	27B			8	
SUBTOTAL		6	40	52	4
TOTAL		6	92		4

## PAVEMENT DELINEATION QUANTITIES

**PDQ-1**

To accompany plans dated 10-25-10



- |  |   |  |                                |
|--|---|--|--------------------------------|
|  | Roadway Embankment                      |  | Excavation Structure (Culvert) |
|  | Structure Backfill (Culvert) See Note 6 |  |                                |
|  | Structure Backfill (Culvert) See Note 6 |  |                                |
|  | Loose Backfill                          |  |                                |

**TYPE 1 INSTALLATION:**

The haunch and outer bedding shall be compacted to a minimum 90 percent relative compaction. In addition, the minimum sand equivalent in these areas shall be 30 and the maximum percentage passing the 75 μm sieve size shall be 12.

**TYPE 2 INSTALLATION:**

The haunch and outer bedding shall be compacted to a minimum 90 percent relative compaction. In addition, the minimum sand equivalent in these areas shall be 25.

**TYPE 3 INSTALLATION:**

The haunch and outer bedding shall be compacted to a minimum 85 percent relative compaction. 90 percent relative compaction will be required where the fill over the pipe is less than 4'-0" or 1/2 OD.

**NOTES:**

- Unless otherwise shown on the plans or specified in the special provision, the Contractor shall have the option of selecting the class of RCP and the type of installation to be used, provided the height of cover does not exceed the value shown for the RCP selected.  
Example: 24" RCP culvert with maximum cover of 19'-0" the options are:  
a) Class III or stronger with Installation Type 1.  
b) Class III Special or stronger with Installation Type 2.  
c) Class IV Special or stronger with Installation Type 3.  
Cover is defined as the maximum vertical distance from top of the pipe to finished grade within the length of any given culvert.
- The class of RCP and Installation Type selected shall be the same throughout the length of any given culvert.
- The "length of any culvert" is defined as the culvert between:  
a) Successive drainage structure (inlets, junction boxes, headwalls, etc.).  
b) A drainage structure and the inlet or outlet end of the culvert.  
c) The inlet and outlet end of the culvert when there are no intervening drainage structures.
- Oval and arch shaped RCP shall not be used.
- 1/25 OD Min, not less than 3".
- Slurry cement backfill may be substituted for backfill in the outer bedding and haunch areas. If slurry is used the outer and middle beddings shall be omitted. Prior to installation the soil under the middle 1/3 of the outside diameter of the pipe shall be softened by scarifying or other means to a minimum depth of 1/25 OD, but not less than 3". Where slurry cement backfill is used clear distance to trench wall may be reduced as set forth in Section 19-3.062 of the Standard Specifications.
- Backfill shall be placed full width of excavation except where dimensions are shown for backfill width or thickness. Dimensions shown are minimums.
- Lower side shall be suitable material as determined by the Engineer. Otherwise it shall be considered unsuitable as set forth in Section 19-2.02 of the Standard Specifications. See Note 9.
- Where the pipe is placed in a trench, if the trench walls are sloped at 5 vertical to 1 horizontal or steeper for at least 90 percent of the trench height or up to not less than 12" from the grading plane, the firmness of the soil in the lower side need not be considered.
- Non-reinforced precast concrete pipe sizes 3'-0" or smaller may be placed under installation Types 1, 2 or 3.

**INSTALLATION TYPE 1**

MINIMUM CLASS AND D-LOAD	COVER	
	108" Dia AND SMALLER	OVER 108" Dia
Class II 1000D	14.9'	12.9'
Class III 1350D	15.0' - 20.9'	13.0' - 18.9'
Class III Special 1700D	21.0' - 26.9'	19.0' - 24.9'
Class IV 2000D	27.0' - 31.9'	25.0' - 29.9'
Class IV Special 2500D	32.0' - 40.9'	30.0' - 38.9'
Class V 3000D	41.0' - 49.9'	39.0' - 46.9'
Class V Special 3600D	50.0' - 59.0'	47.0' - 58.0'

**INSTALLATION TYPE 2**

MINIMUM CLASS AND D-LOAD	COVER
Class II 1000D	9.9'
Class III 1350D	10.0' - 14.9'
Class III Special 1700D	15.0' - 19.9'
Class IV 2000D	20.0' - 24.9'
Class IV Special 2500D	25.0' - 31.9'
Class V 3000D	32.0' - 38.9'
Class V Special 3600D	39.0' - 47.0'

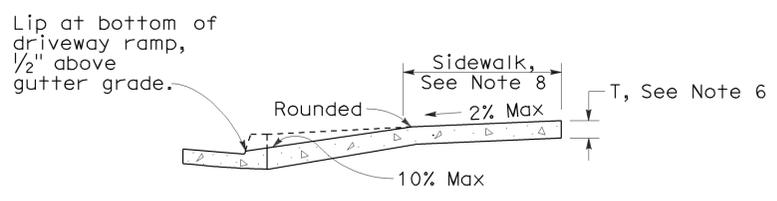
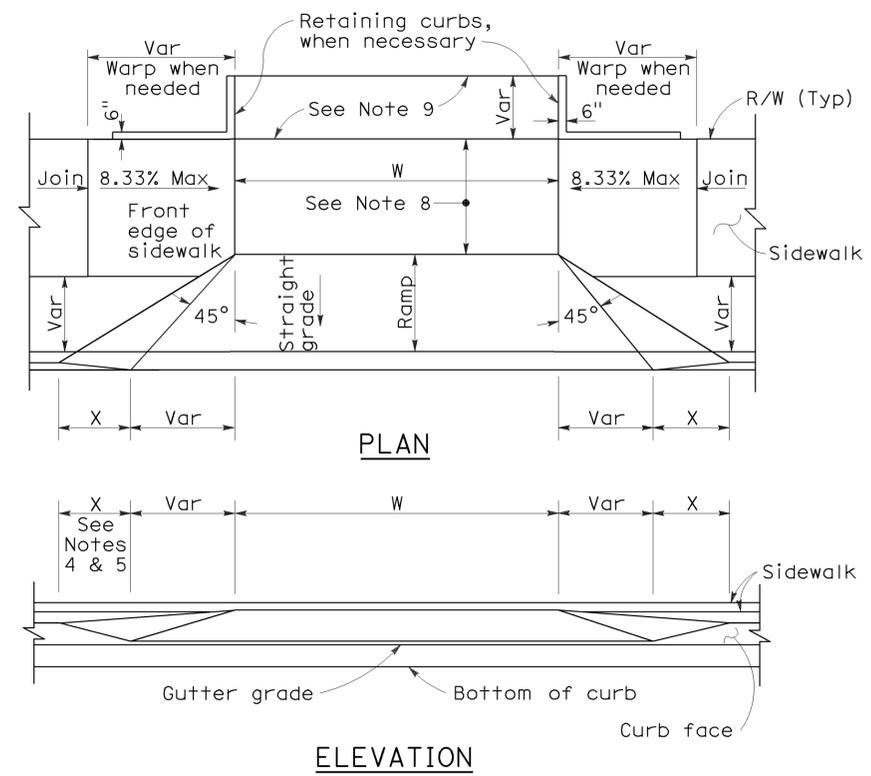
**INSTALLATION TYPE 3**

MINIMUM CLASS AND D-LOAD	COVER	
	48" Dia AND SMALLER	OVER 48" Dia
Class II 1000D	7.9'	5.9'
Class III 1350D	8.0' - 10.9'	6.0' - 8.9'
Class III Special 1700D	11.0' - 14.9'	9.0' - 12.9'
Class IV 2000D	15.0' - 17.9'	13.0' - 15.9'
Class IV Special 2500D	18.0' - 21.9'	16.0' - 19.9'
Class V 3000D	22.0' - 26.9'	20.0' - 24.9'
Class V Special 3600D	30.0' - 33.0'	25.0' - 31.0'

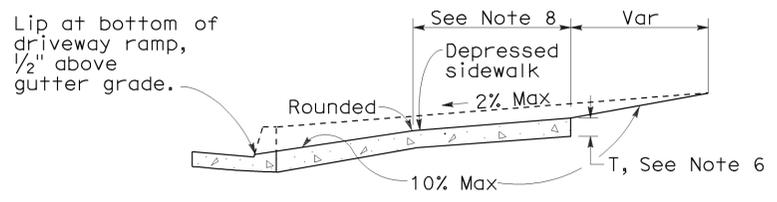
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**EXCAVATION AND BACKFILL  
CONCRETE PIPE CULVERTS**  
NO SCALE

RSP A62DA DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN A62DA DATED MAY 1, 2006 - PAGE 20 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A62DA



**CASE A**  
Typical driveway, sidewalk not depressed



**CASE B**  
Driveway with depressed sidewalk

**SECTIONS**

**CURB QUANTITIES**

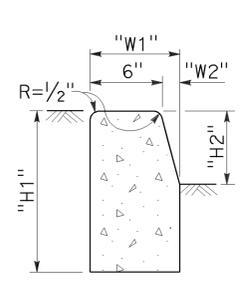
TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661

**TABLE A**

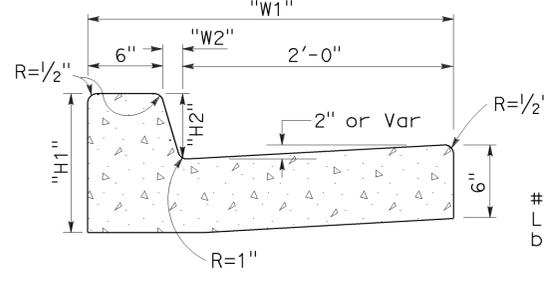
CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7 1/2"	1 1/2"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7 1/2"	1 1/2"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7 1/4"	1 1/4"
A3-8	8"	7"	7 3/4"	1 3/4"
B1-4	1'-0"	4"	7 1/2"	2 1/2"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7 1/2"	2 1/2"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8 1/2"	3 1/2"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-8"

To accompany plans dated 10-25-10

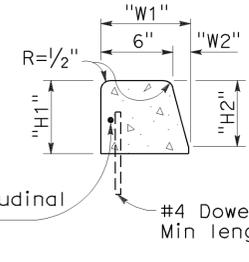
**DRIVEWAYS**



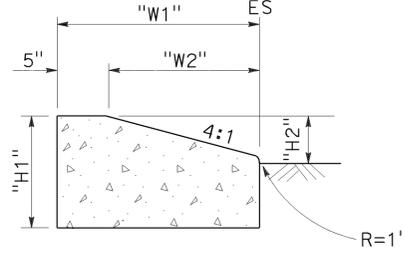
**TYPE A1 CURBS**  
See Table A



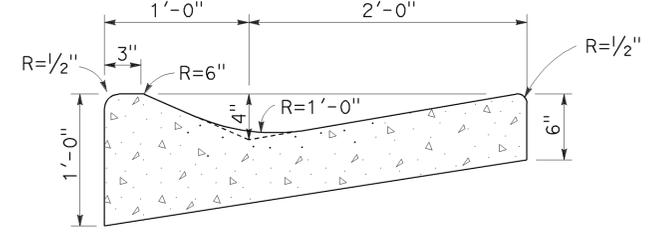
**TYPE A2 CURBS**  
See Table A



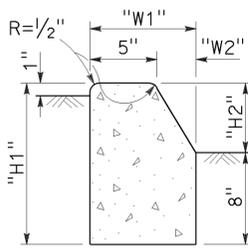
**TYPE A3 CURBS**  
Superimposed on existing pavement  
See Table A



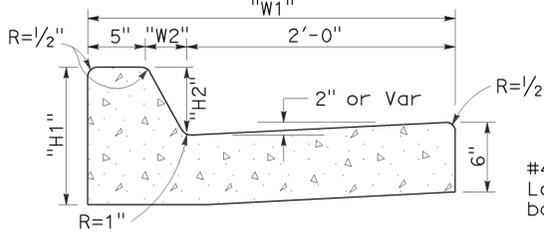
**TYPE D CURBS**  
See Table A



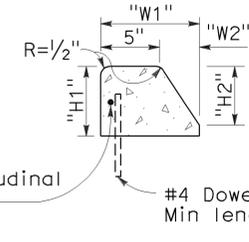
**TYPE E CURB**



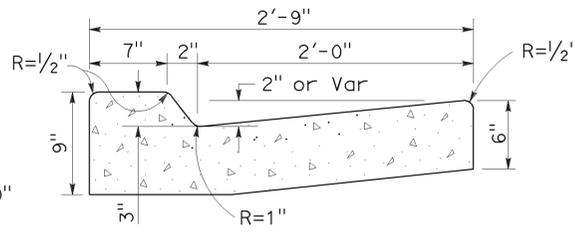
**TYPE B1 CURBS**  
See Table A



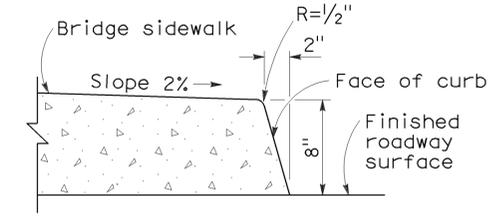
**TYPE B2 CURBS**  
See Table A



**TYPE B3 CURBS**  
Superimposed on existing pavement  
See Table A



**TYPE B4 CURBS**



**TYPE H CURB**  
On Bridges

**CURBS**

**NOTES:**

- Case A driveway section typically applies.
- Use Case B driveway section when ramp slopes would exceed 10% in Case A.
- Use Case B driveway section when sidewalk cross slope would exceed 2% in Case A.
- X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
- X is a variable when sidewalk is located where wheelchairs may traverse the surface. Slopes shall not exceed 8.33%.
- Sidewalk and ramp thickness "T" at driveway shall be 4" for residential and 6" for commercial.
- Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
- Minimum width of clear passageway for sidewalk shall be 4'-0".
- Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
- Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**CURBS AND DRIVEWAYS**

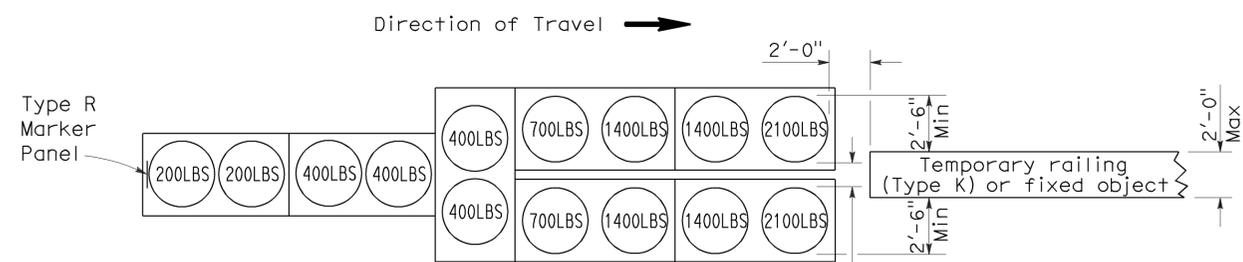
NO SCALE

RSP A87A DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN A87A  
DATED MAY 1, 2006 - PAGE 113 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP A87A**

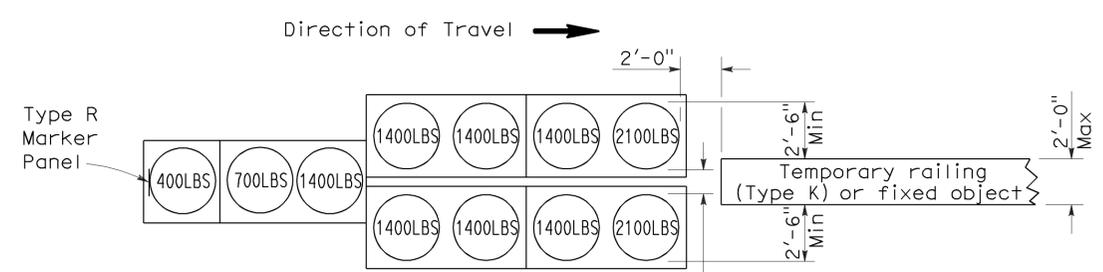
2006 REVISED STANDARD PLAN RSP A87A

To accompany plans dated 10-25-10



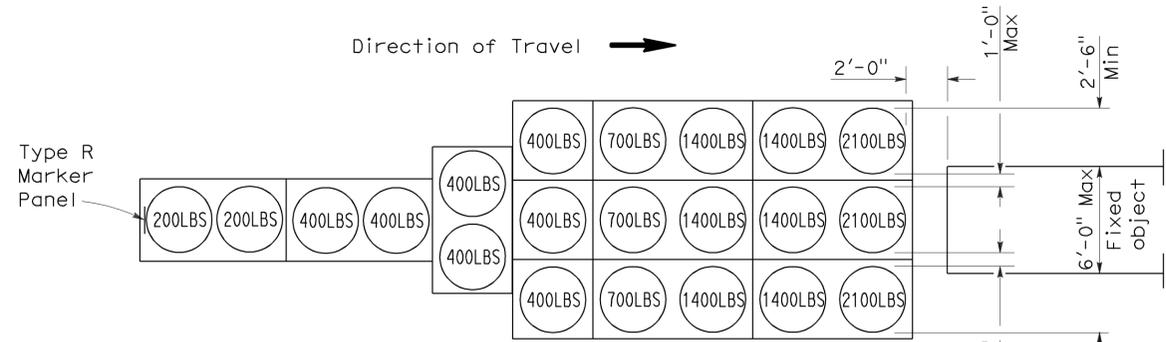
**ARRAY 'TU14'**

Approach speed 45 mph or more



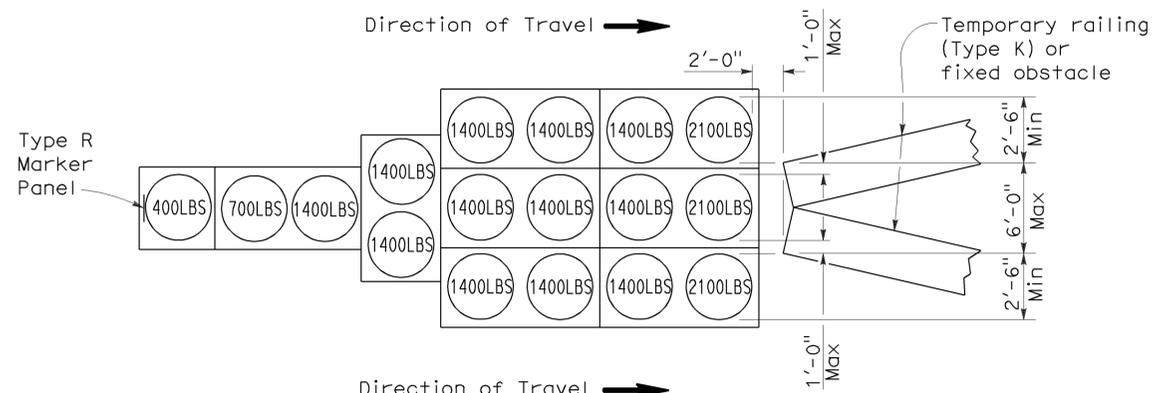
**ARRAY 'TU11'**

Approach speed less than 45 mph



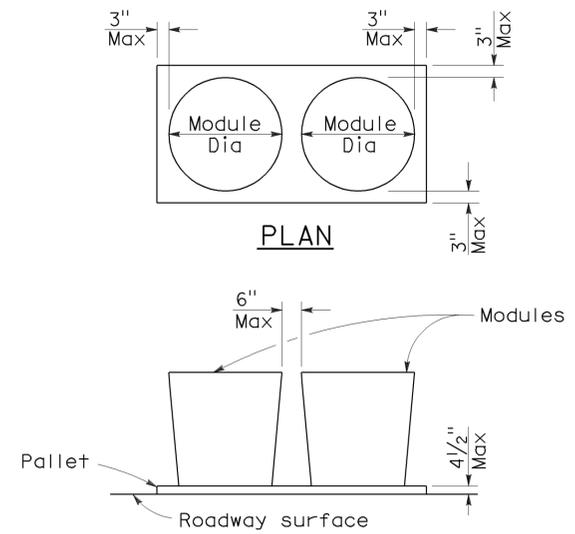
**ARRAY 'TU21'**

Approach speed 45 mph or more



**ARRAY 'TU17'**

Approach speed less than 45 mph



**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T1A**

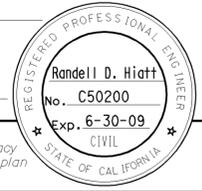
2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04 SF, SM		35	Var	20	27

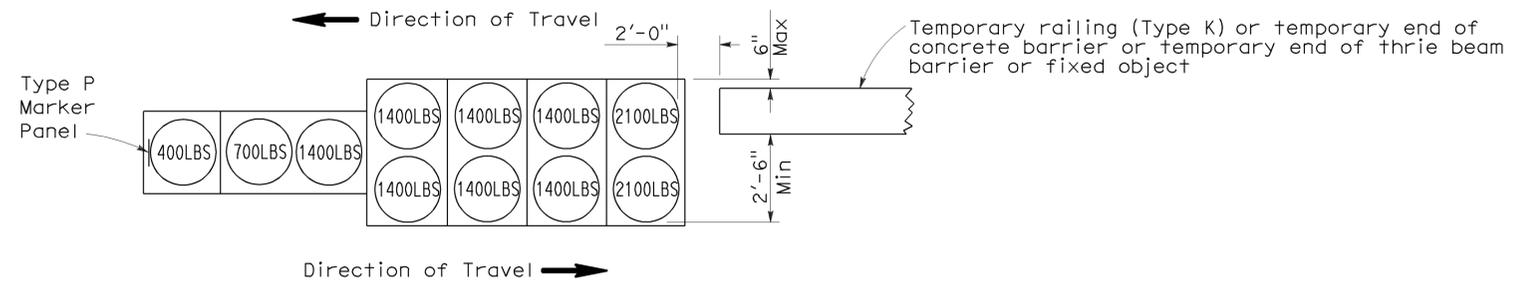
Randell D. Hiatt  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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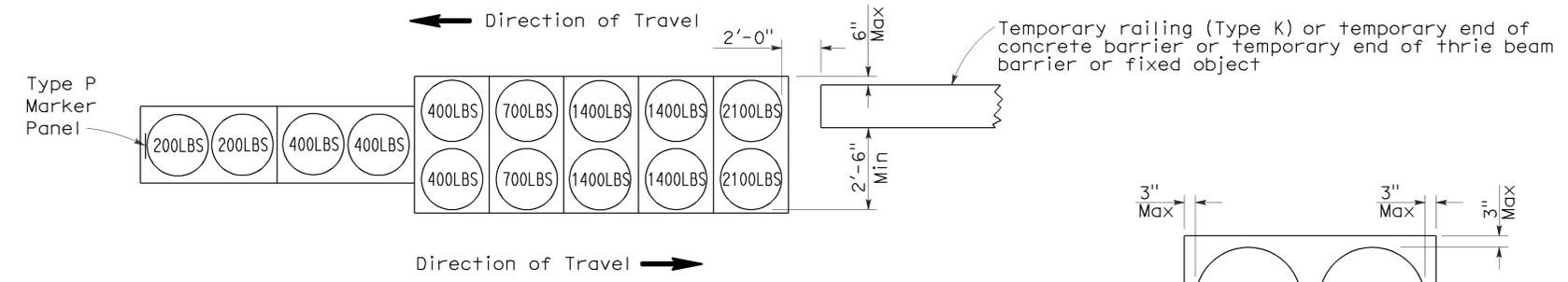


To accompany plans dated 10-25-10



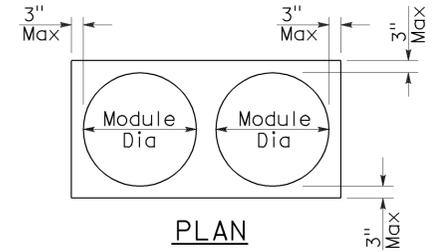
**ARRAY 'TB11'**

Approach speed less than 45 mph

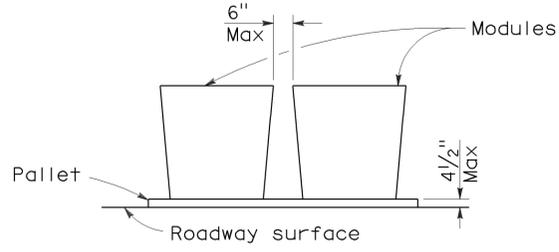


**ARRAY 'TB14'**

Approach speed 45 mph or more



PLAN



ELEVATION

**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

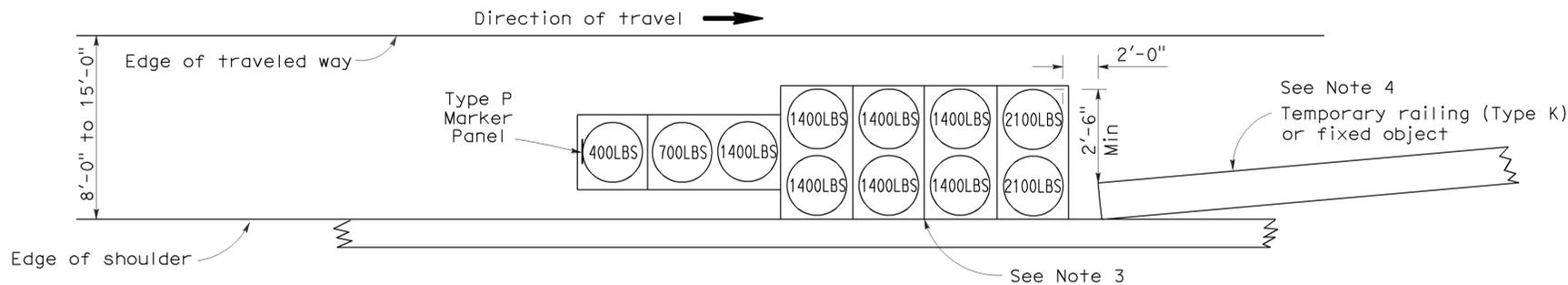
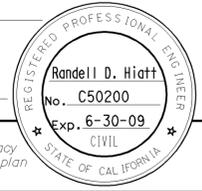
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04 SF, SM		35	Var	21	27

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

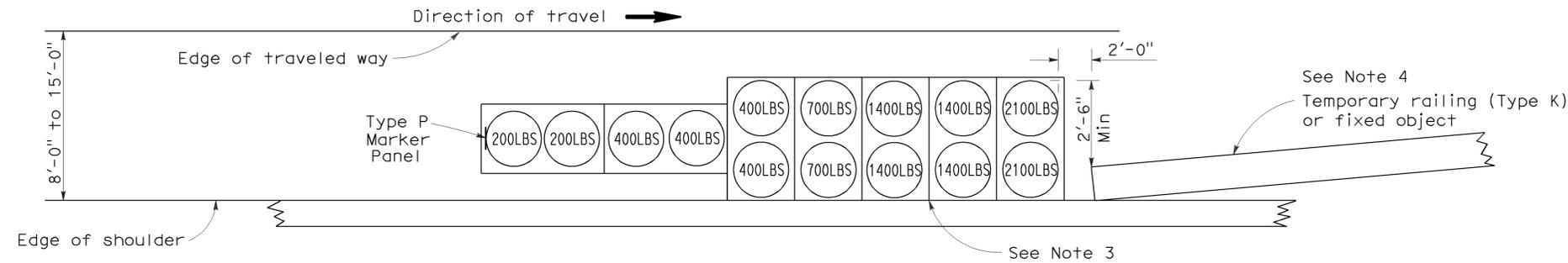
June 6, 2008  
PLANS APPROVAL DATE

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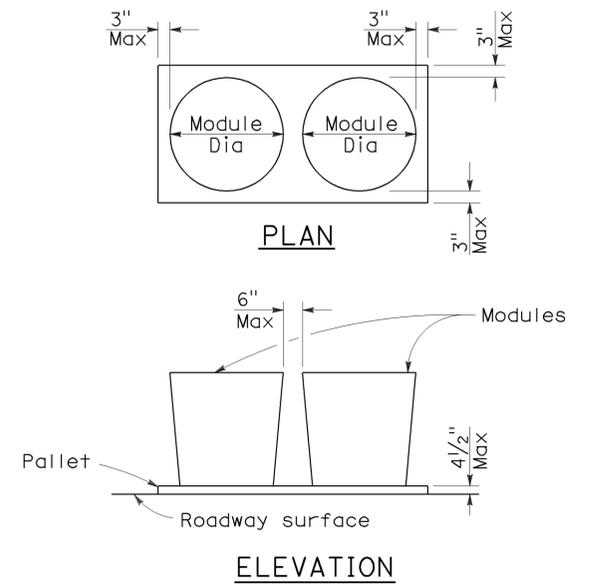
To accompany plans dated 10-25-10



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



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



**CRASH CUSHION PALLET DETAIL**  
See Note 11

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**  
NO SCALE

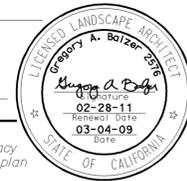
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2  
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04 SF, SM		35	Var	22	27

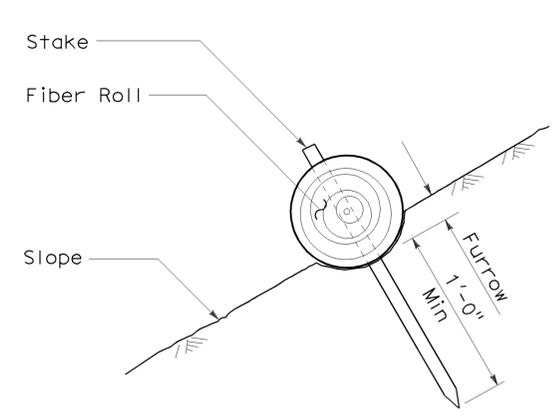
*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 April 3, 2009  
 PLANS APPROVAL DATE  
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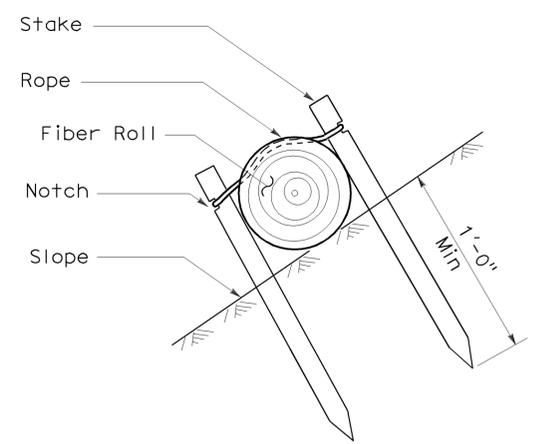
To accompany plans dated 10-25-10

**NOTES:**

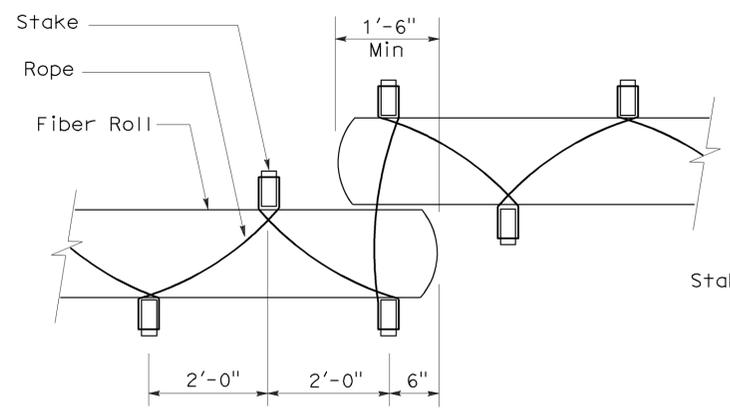
1. Fiber roll spacing varies depending upon slope inclination.
2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



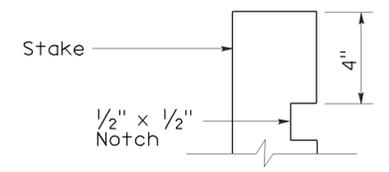
**SECTION**  
**FIBER ROLL**  
**(TYPE 1)**



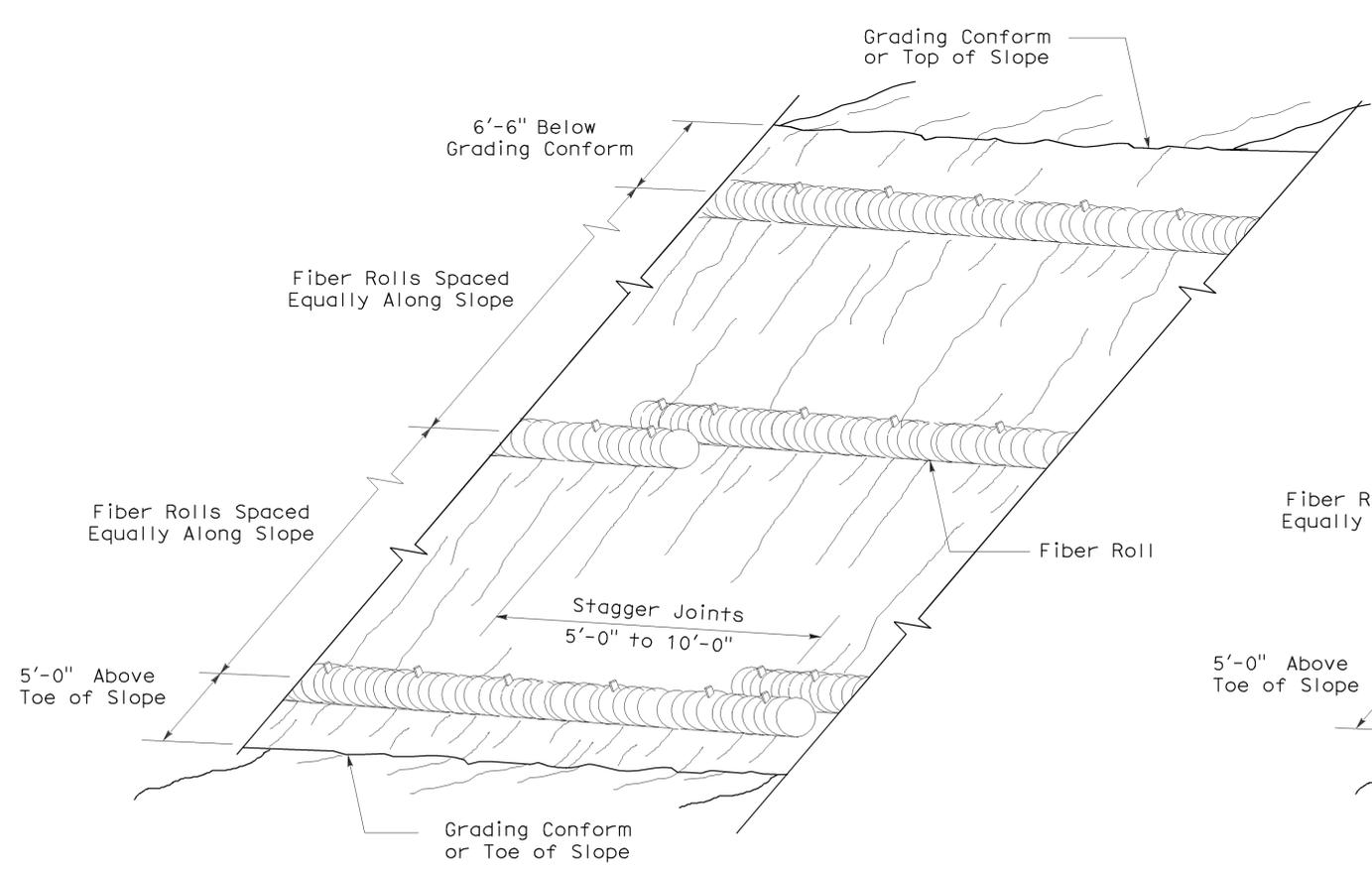
**SECTION**



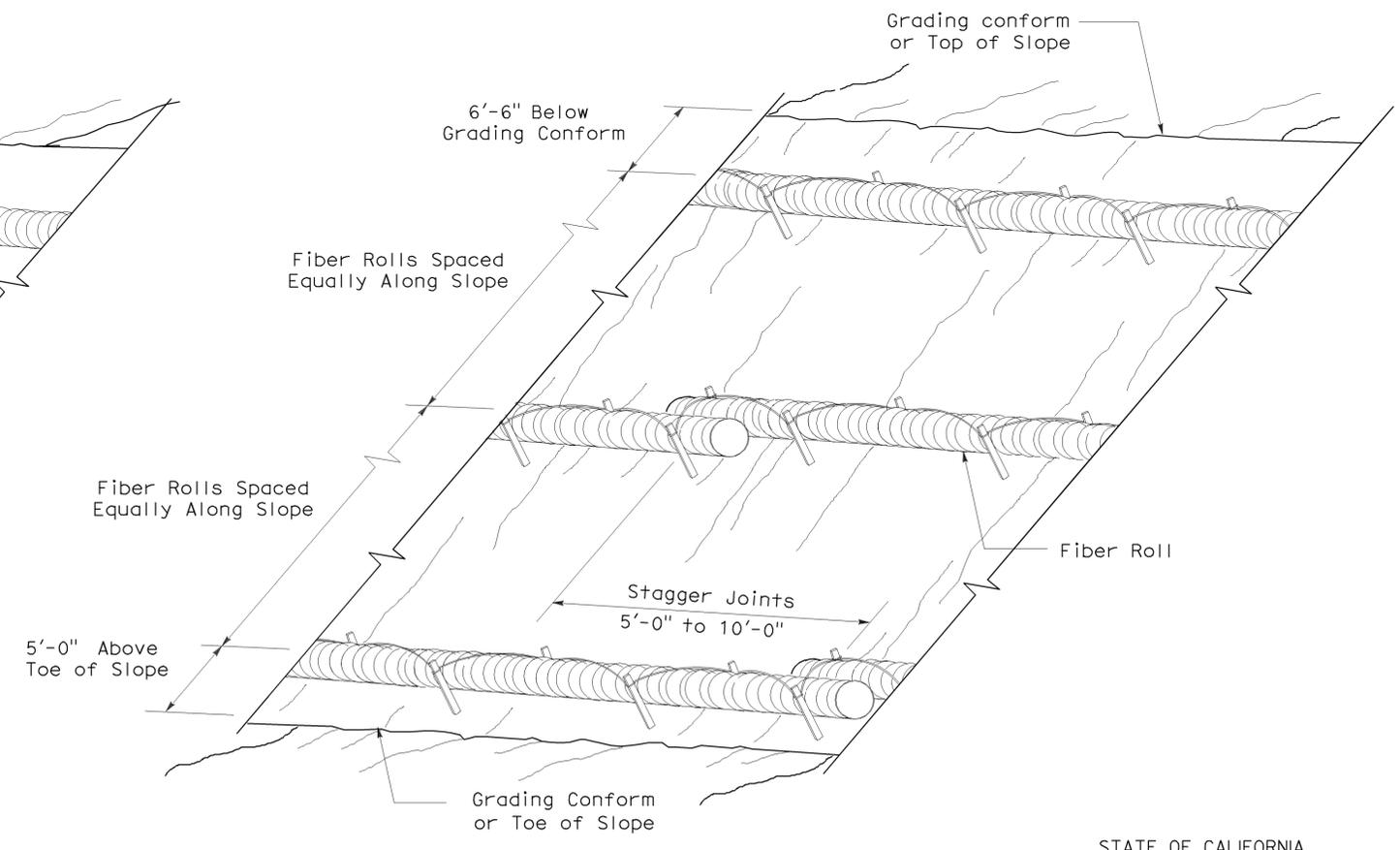
**PLAN**



**ELEVATION**  
**STAKE NOTCH DETAIL**



**PERSPECTIVE**  
**FIBER ROLL (TYPE 1)**



**PERSPECTIVE**  
**FIBER ROLL (TYPE 2)**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL DETAILS**  
**(FIBER ROLL)**

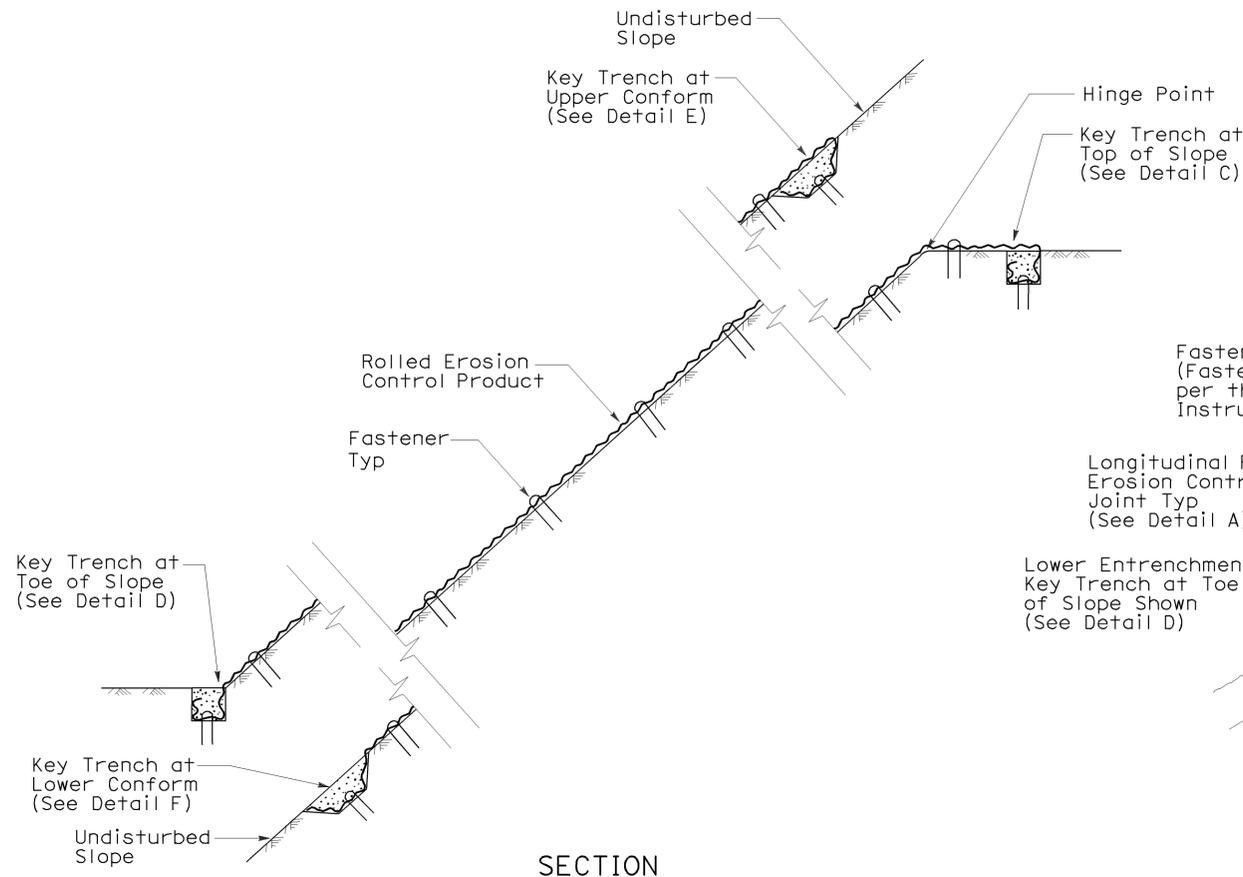
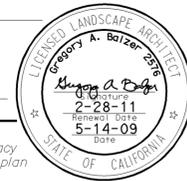
NO SCALE  
RNSP H51 DATED APRIL 3, 2009 SUPERSEDES NSP H51 DATED DECEMBER 1, 2006 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED NEW STANDARD PLAN RNSP H51

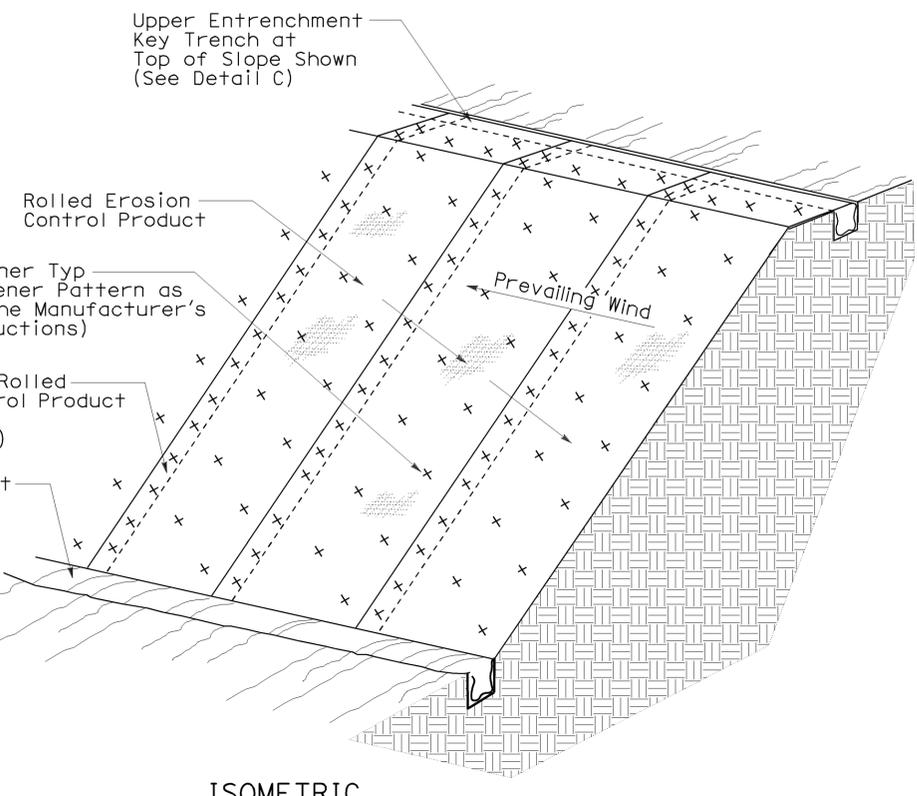
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04 SF, SM		35	Var	23	27

June 5, 2009  
 PLANS APPROVAL DATE  
 To accompany plans dated 10-25-10

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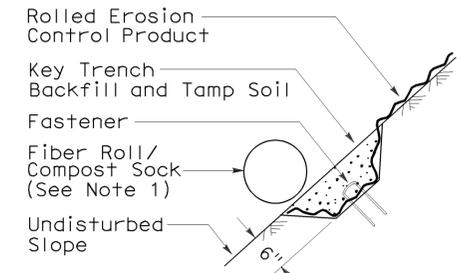


**SECTION**  
**ROLLED EROSION CONTROL PRODUCT**  
**ON SLOPE WITH VARIOUS KEY ENTRENCHMENTS**

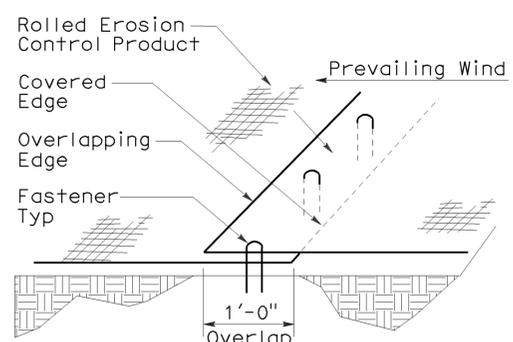


**ISOMETRIC**  
**ROLLED EROSION CONTROL PRODUCT**  
**ON SLOPE**

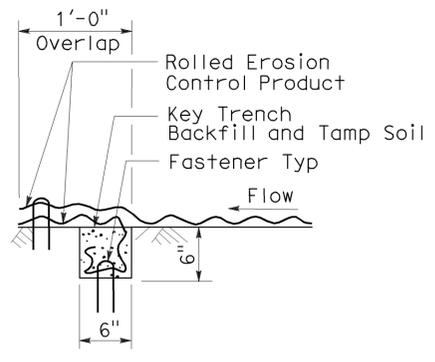
- NOTE:**
1. Fiber Roll/Compost Sock shown for reference purposes only.
  2. If transverse rolled erosion control product joints are required on slopes, see Detail B.



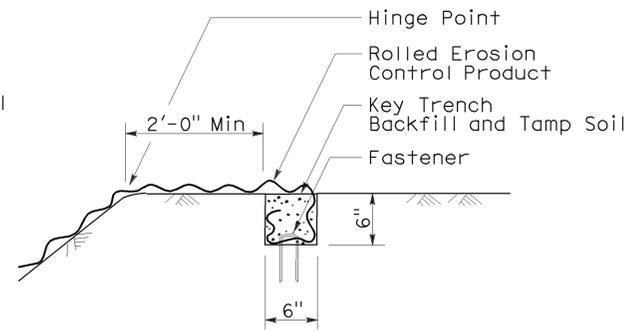
**SECTION**  
**DETAIL F**  
**KEY TRENCH AT**  
**LOWER CONFORM**



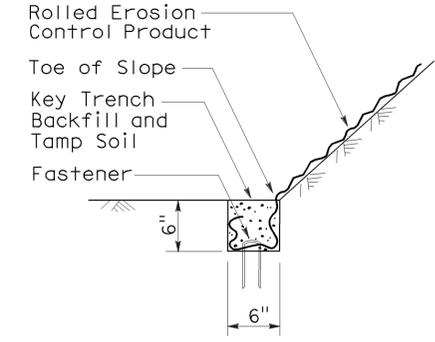
**PERSPECTIVE**  
**DETAIL A**  
**LONGITUDINAL ROLLED EROSION**  
**CONTROL PRODUCT JOINT**



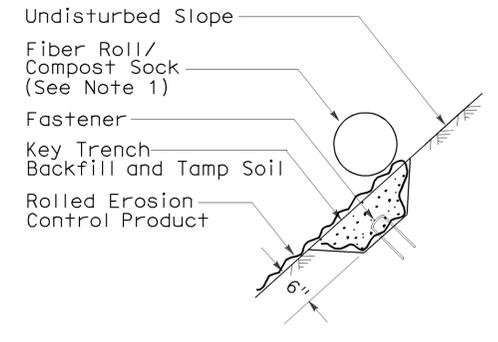
**SECTION**  
**DETAIL B**  
**TRANSVERSE ROLLED EROSION**  
**CONTROL PRODUCT JOINT**



**SECTION**  
**DETAIL C**  
**KEY TRENCH AT**  
**TOP OF SLOPE**



**SECTION**  
**DETAIL D**  
**KEY TRENCH AT**  
**TOE OF SLOPE**



**SECTION**  
**DETAIL E**  
**KEY TRENCH AT**  
**UPPER CONFORM**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ROLLED EROSION CONTROL PRODUCT**  
 NO SCALE  
 NSP H53 DATED JUNE 5, 2009 SUPPLEMENTS  
 THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP H53

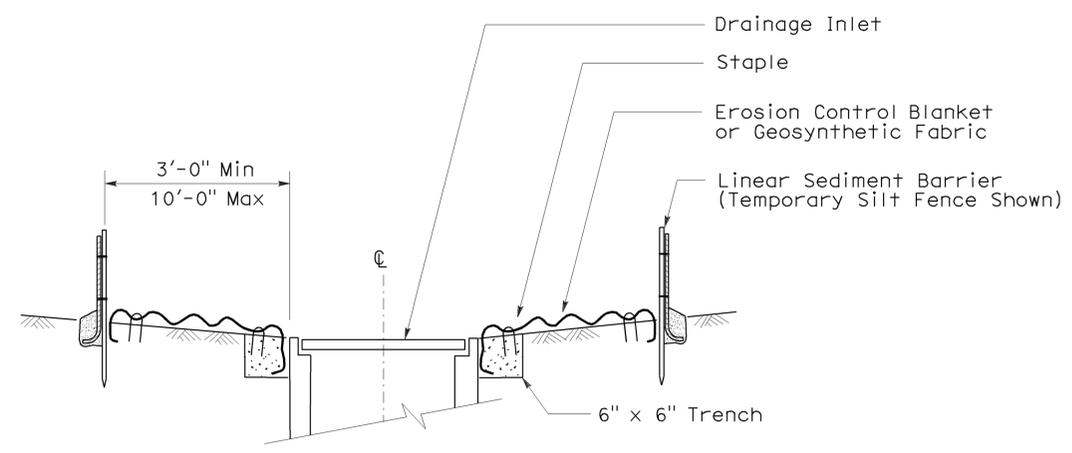
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF, SM	35	Var	24	27

Robert B. Schott  
 LICENSED LANDSCAPE ARCHITECT  
 August 15, 2008  
 PLANS Approval DATE  
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

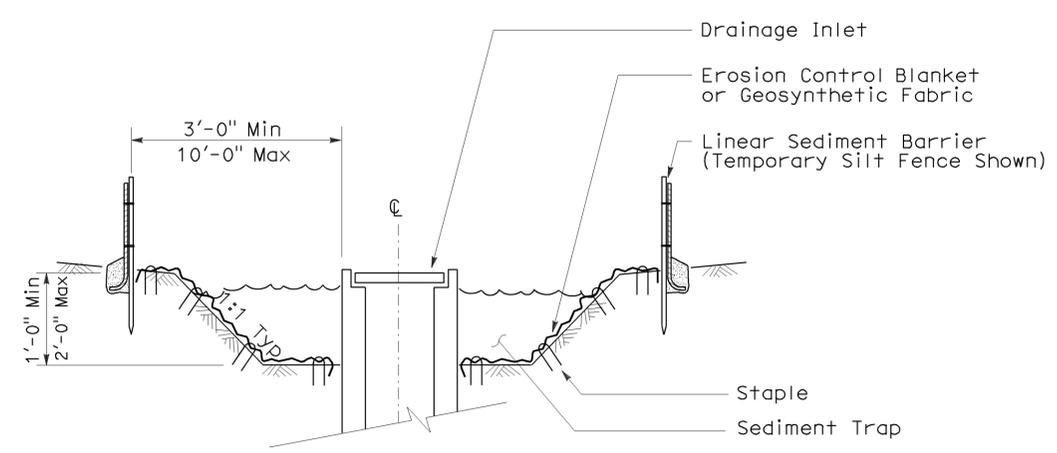


To accompany plans dated 10-25-10

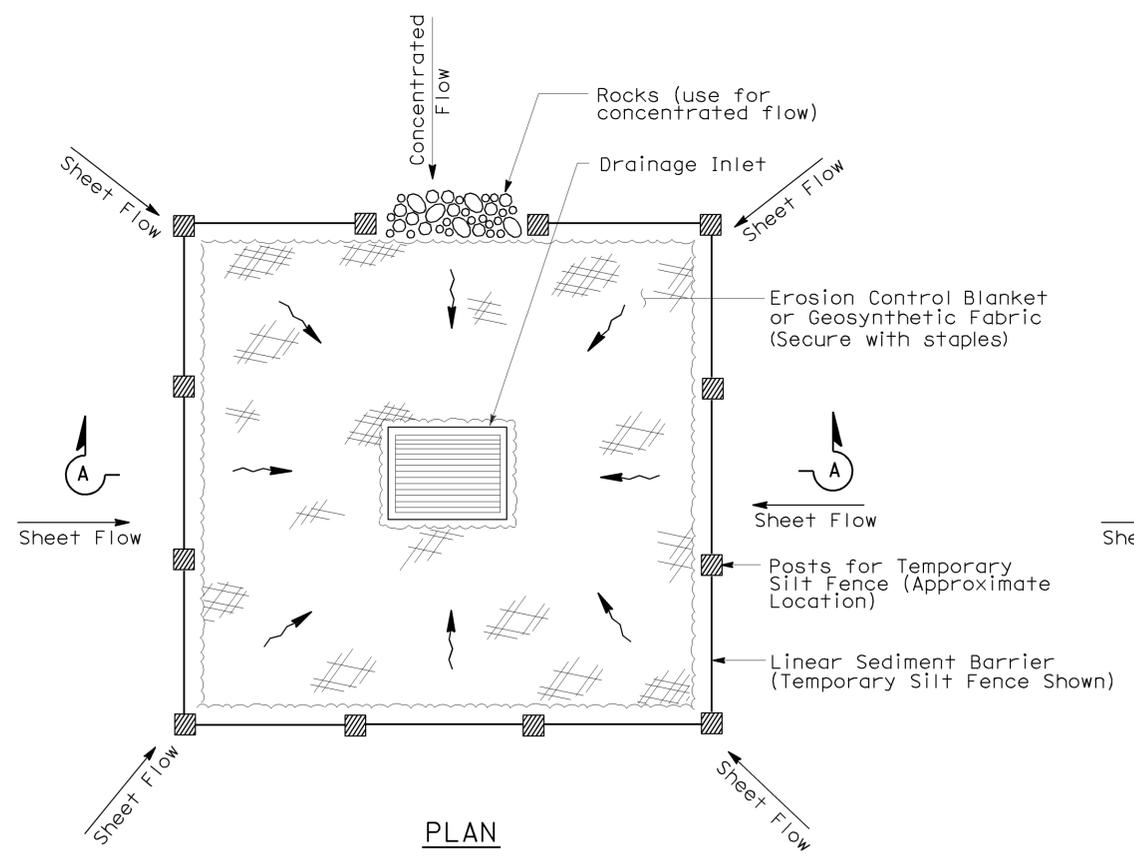
- NOTES:**
1. See Standard Plan T51 for Temporary Silt Fence.
  2. Dimensions may vary to fit field conditions.



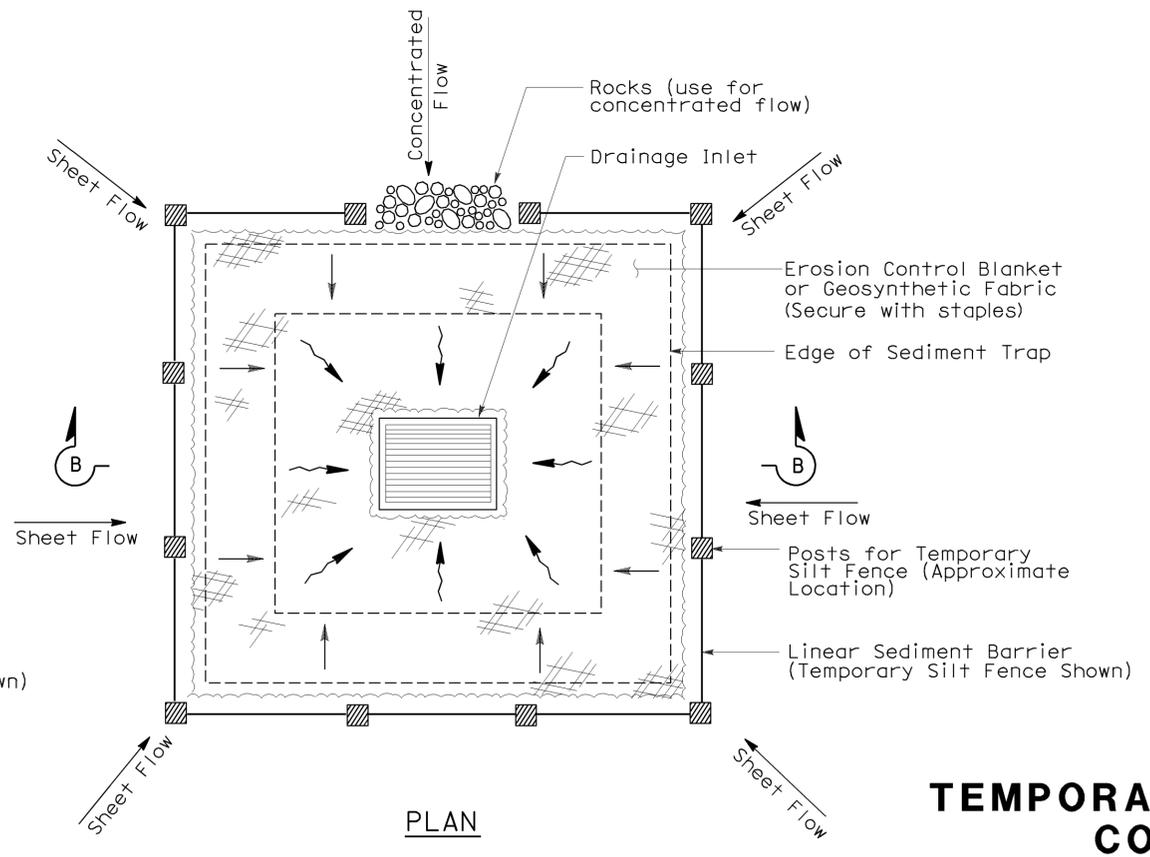
SECTION A-A



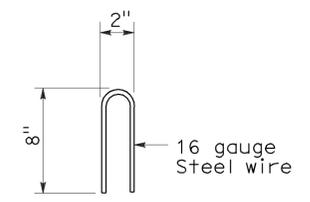
SECTION B-B



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



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



STAPLE DETAIL

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

Nsp t61 dated august 15, 2008 supplements the standard plans book dated may 2006.

2006 NEW STANDARD PLAN NSP T61

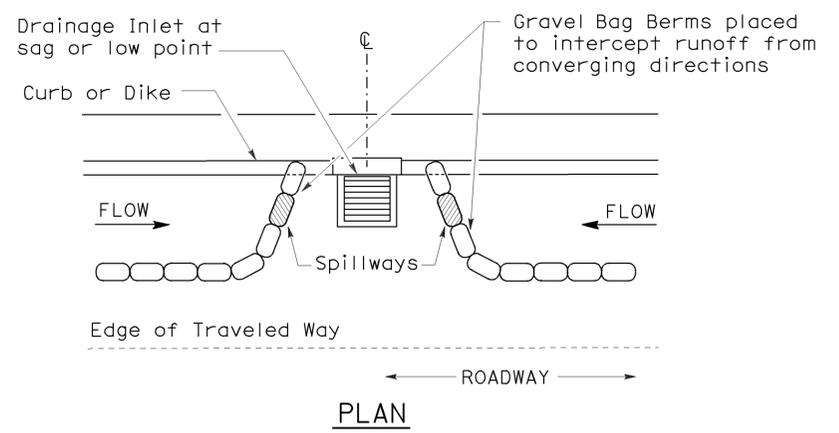


To accompany plans dated 10-25-10

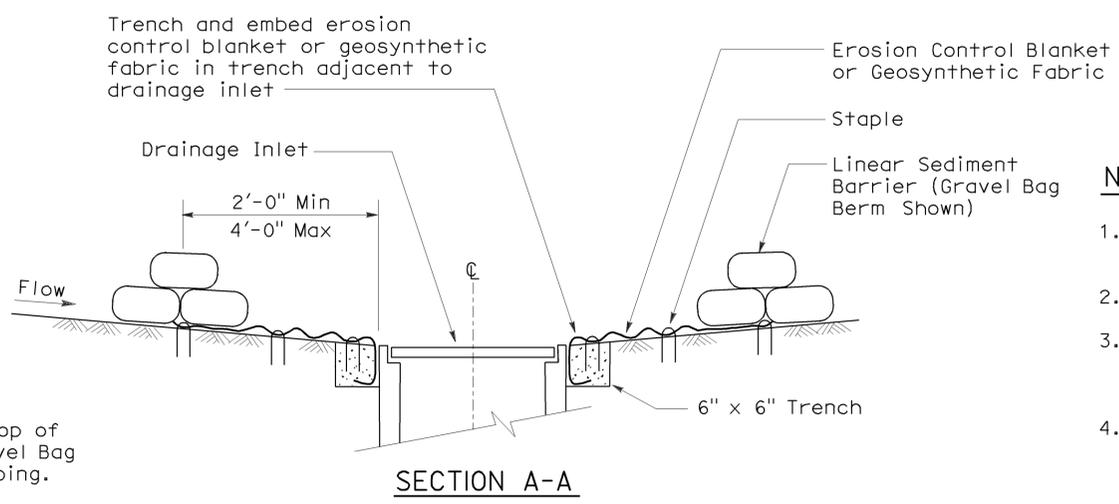
### GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

For slope of less than 1%, install barriers only if erosion/sediment is prevalent



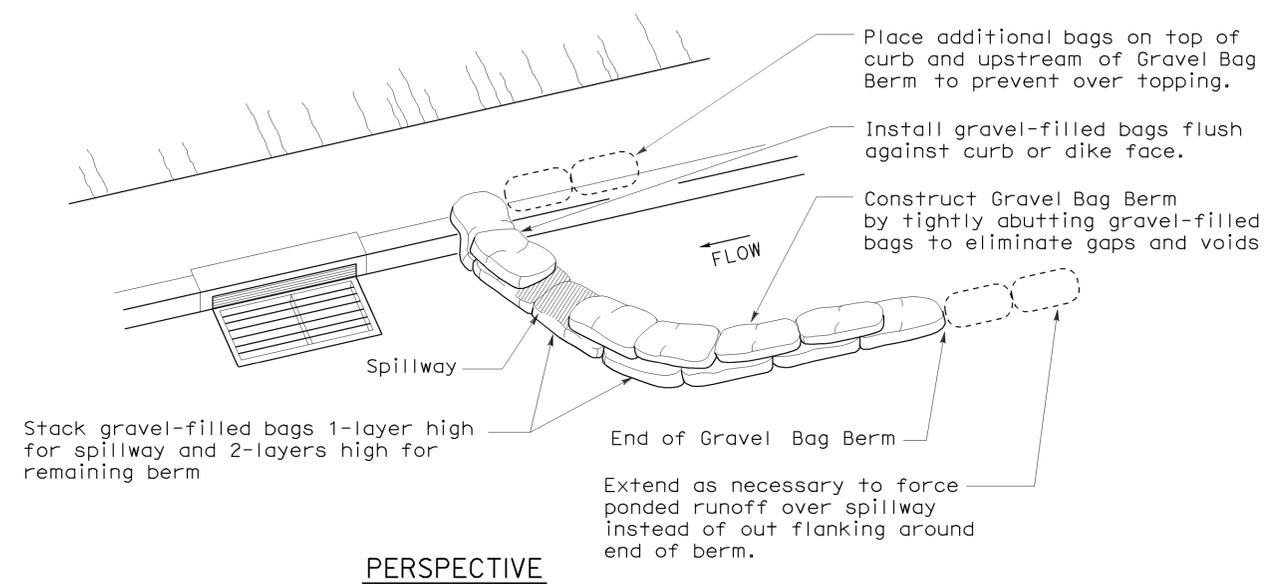
**CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)**



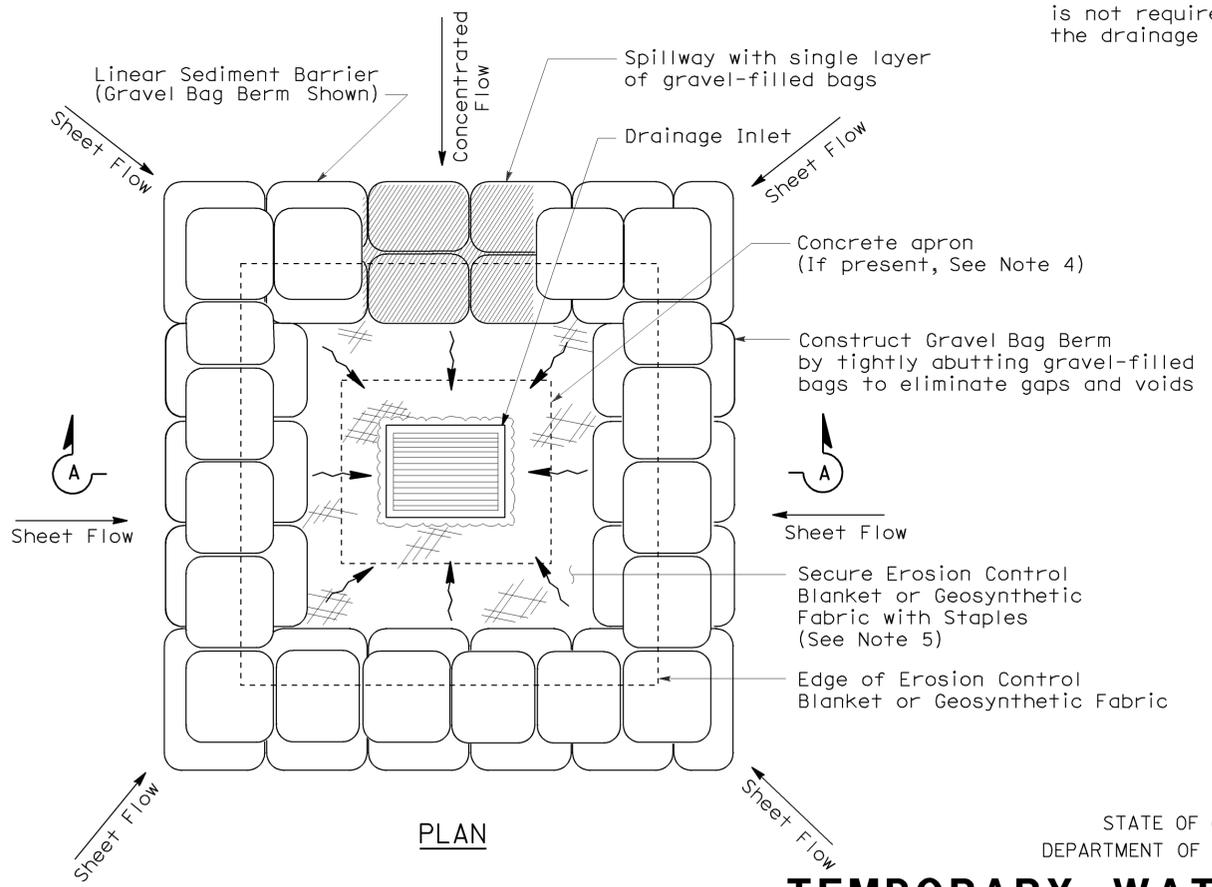
**SECTION A-A**

**NOTES:**

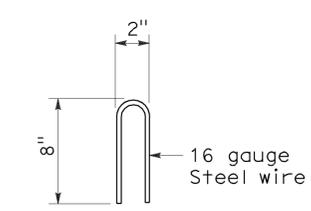
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.



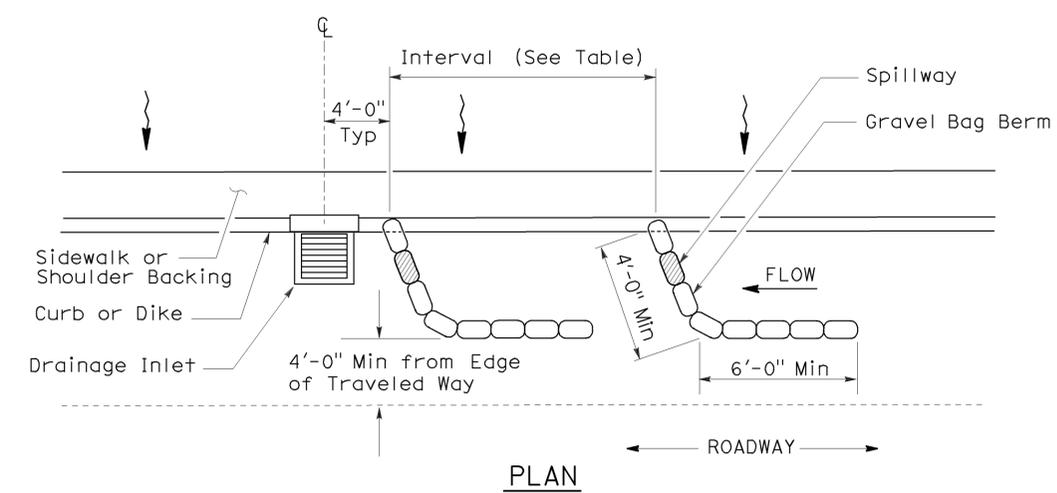
**PERSPECTIVE**



**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)**



**STAPLE DETAIL**



**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)**

NO SCALE  
NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T62

FLEXIBLE SEDIMENT BARRIER SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50'	35'	30'	25'	20'
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6'	6'	6'	6'	6'

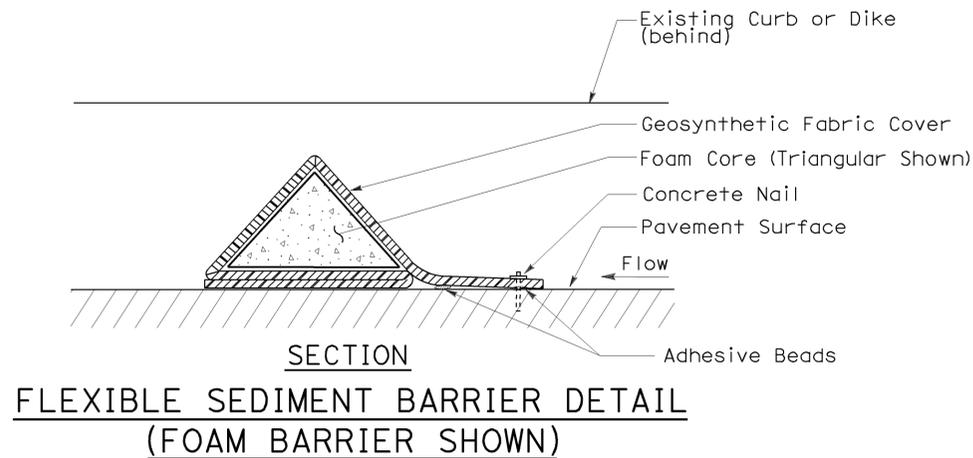
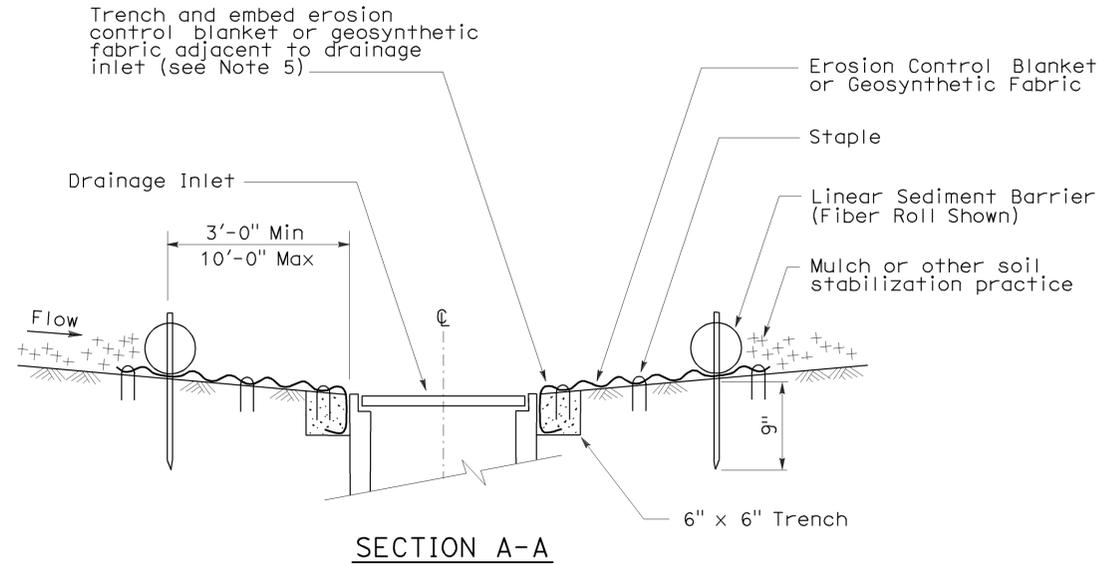
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF, SM	35	Var	26	27

Robert B. Schott  
 LICENSED LANDSCAPE ARCHITECT

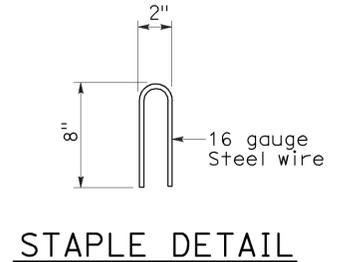
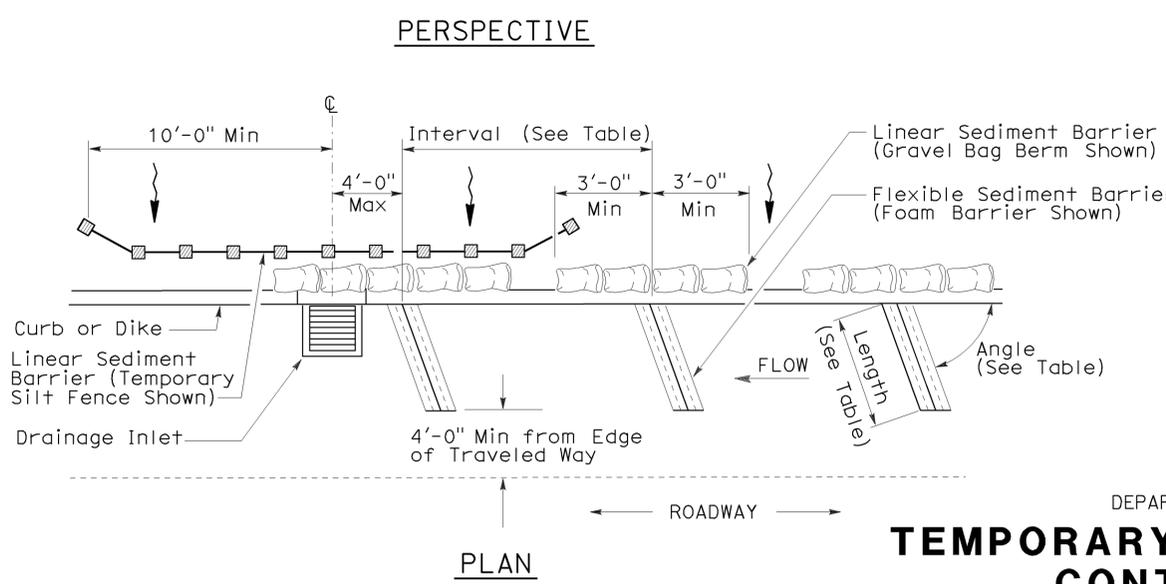
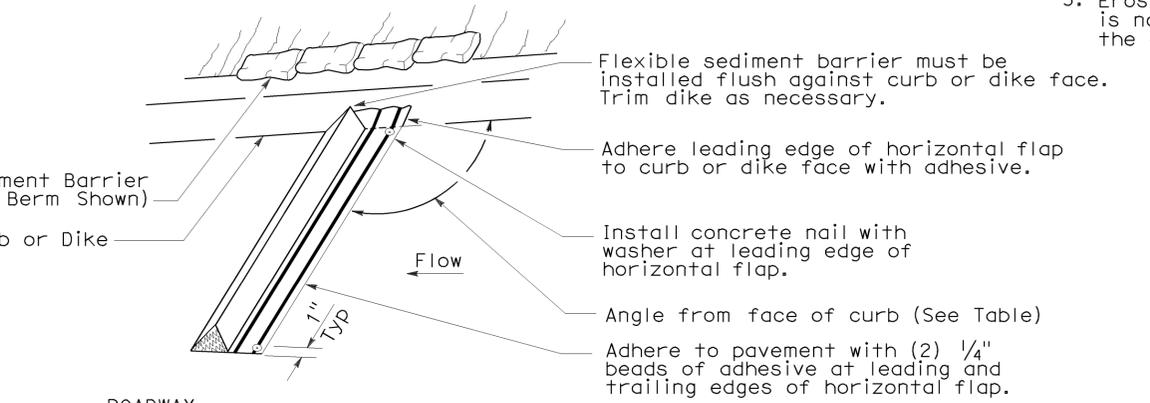
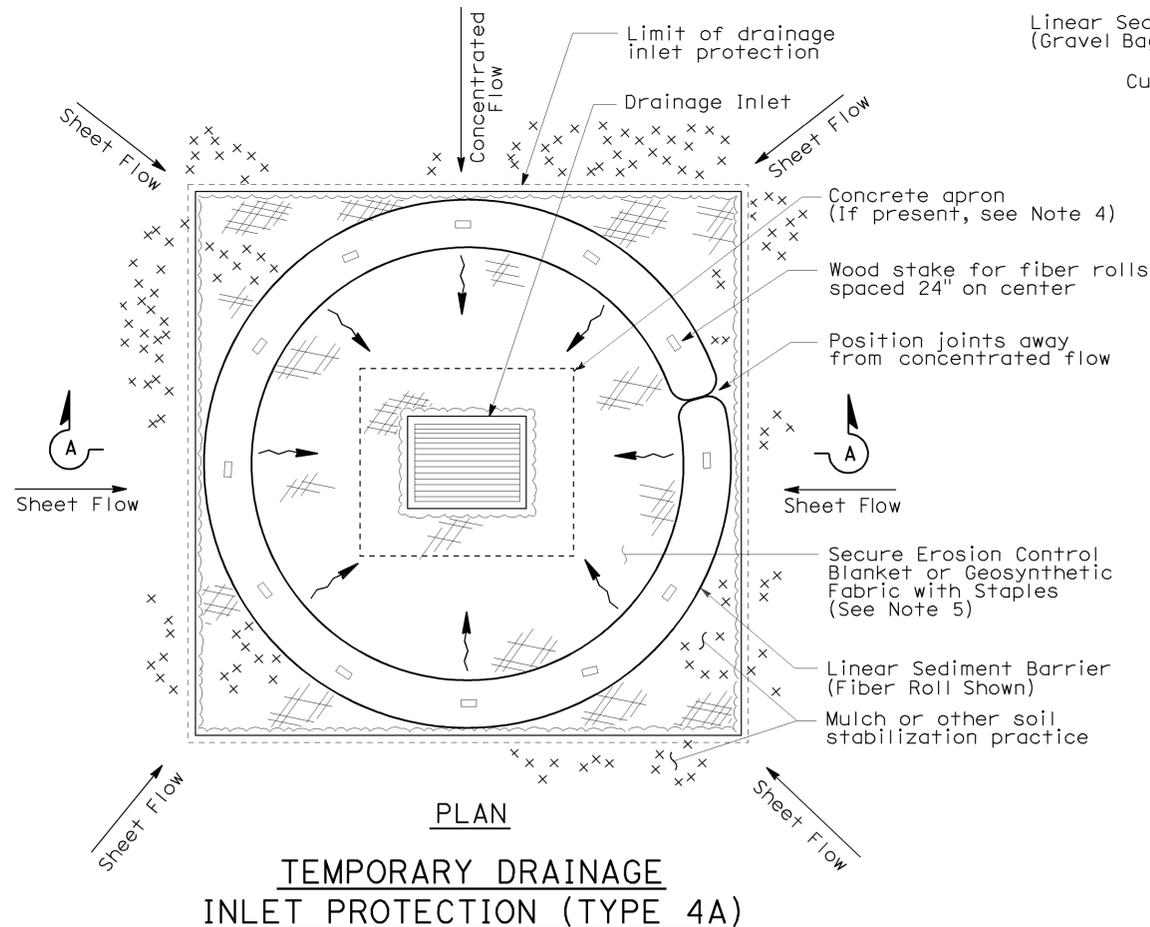
August 15, 2008  
 PLANS APPROVAL DATE

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

To accompany plans dated 10-25-10



- NOTES:**
- See Standard Plan T51 for Temporary Silt Fence.
  - Dimensions may vary to fit field conditions.
  - Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
  - Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
  - Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated.



STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)**

NO SCALE  
 NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP T63**

2006 NEW STANDARD PLAN NSP T63

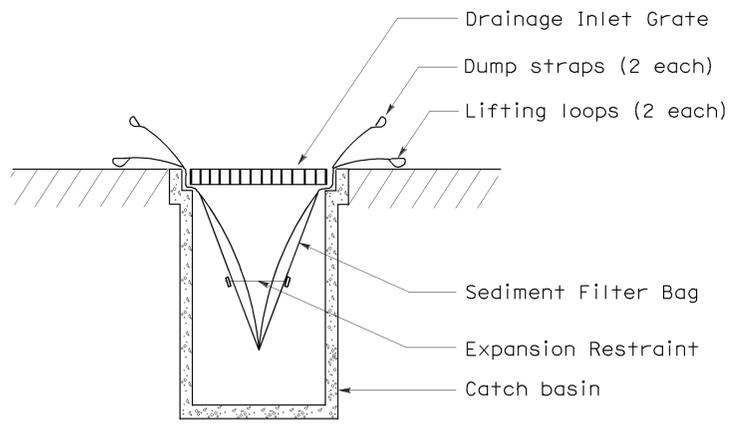
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF, SM	35	Var	27	27

*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT

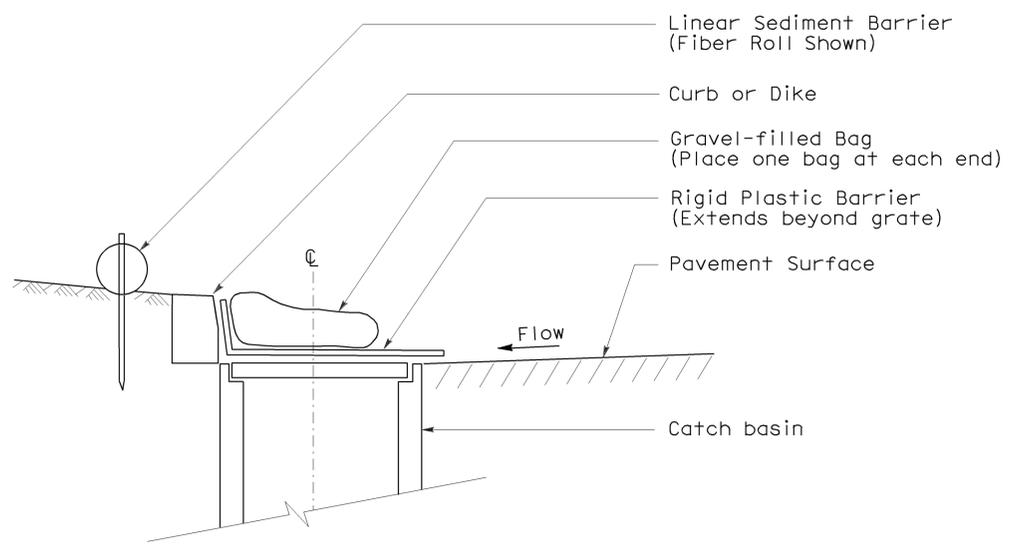
August 15, 2008  
 PLANS APPROVAL DATE

*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 Signature  
 11-04-08  
 Renewal Date  
 08-11-08  
 Date

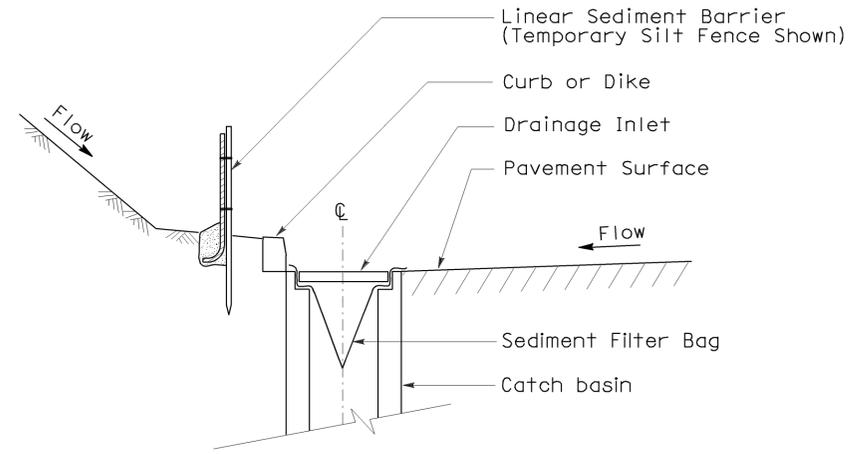
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



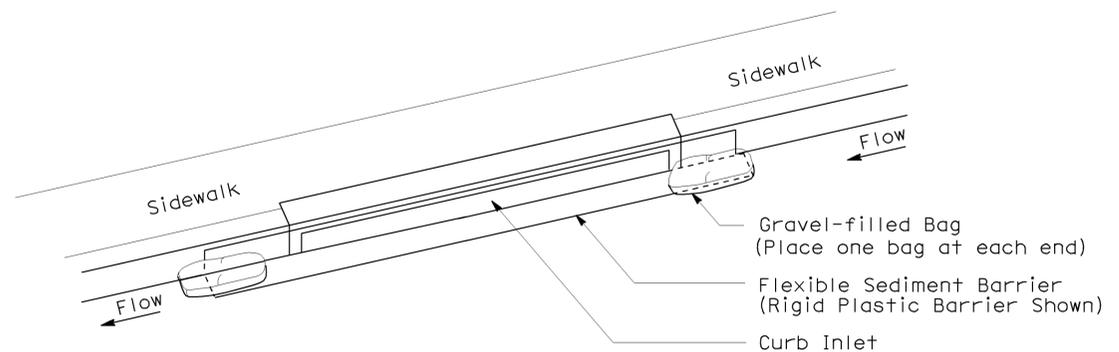
SECTION B-B  
SEDIMENT FILTER BAG DETAIL



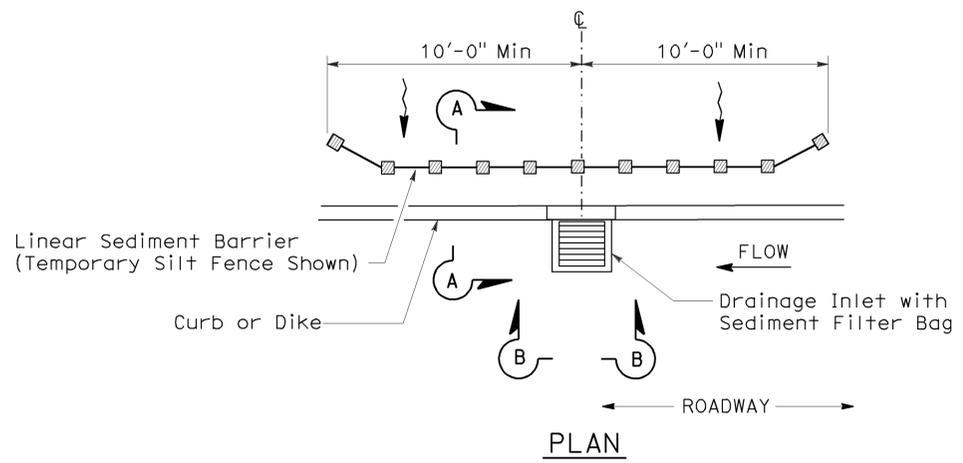
SECTION  
TEMPORARY DRAINAGE  
INLET PROTECTION (TYPE 6A)  
(CATCH BASIN WITH GRATE)



SECTION A-A



PERSPECTIVE  
TEMPORARY DRAINAGE  
INLET PROTECTION (TYPE 6B)  
(CURB INLET WITHOUT GRATE)



PLAN  
TEMPORARY DRAINAGE  
INLET PROTECTION (TYPE 5)  
(SEDIMENT FILTER BAG)

NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.

To accompany plans dated 10-25-10

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY WATER POLLUTION  
CONTROL DETAILS  
(TEMPORARY DRAINAGE  
INLET PROTECTION)**

NO SCALE  
NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS  
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T64