

INDEX OF PLANS

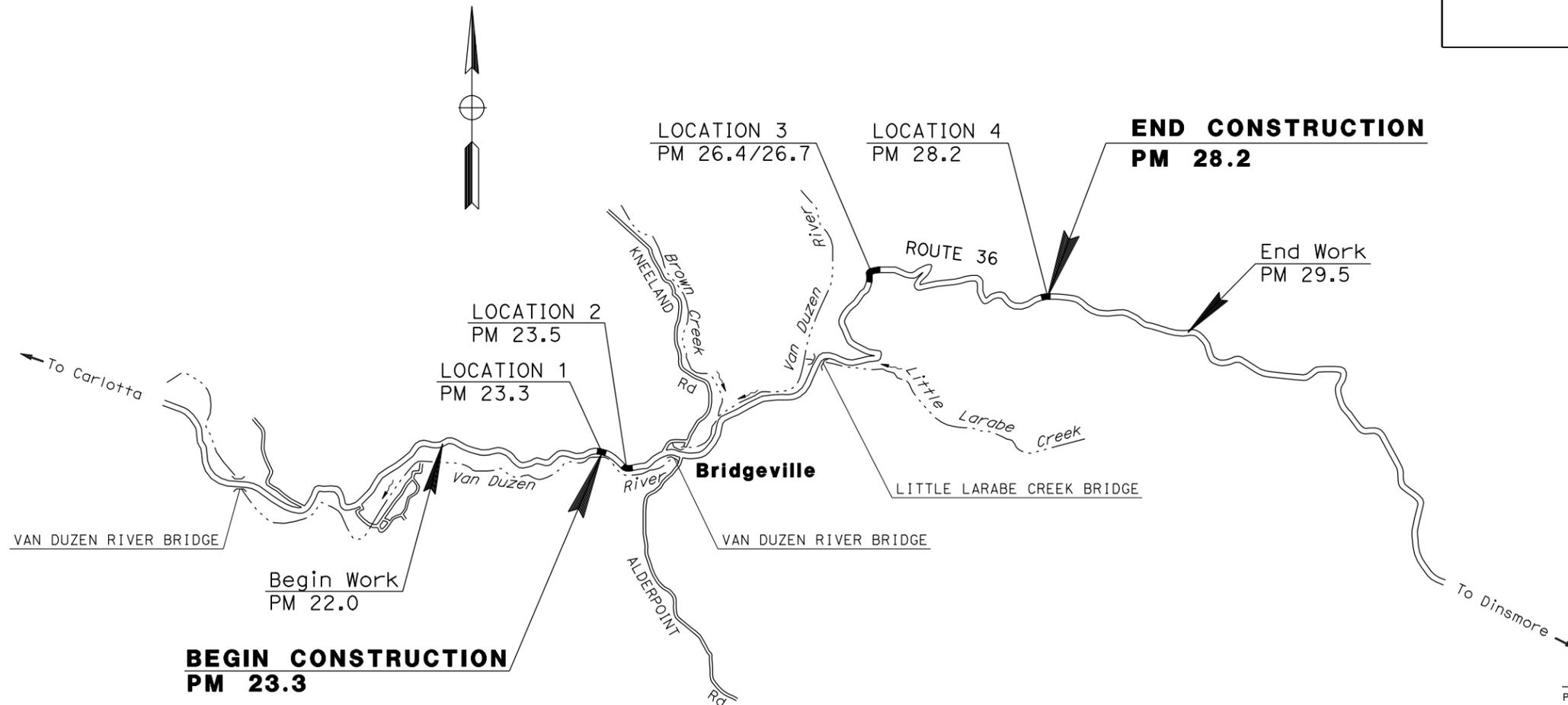
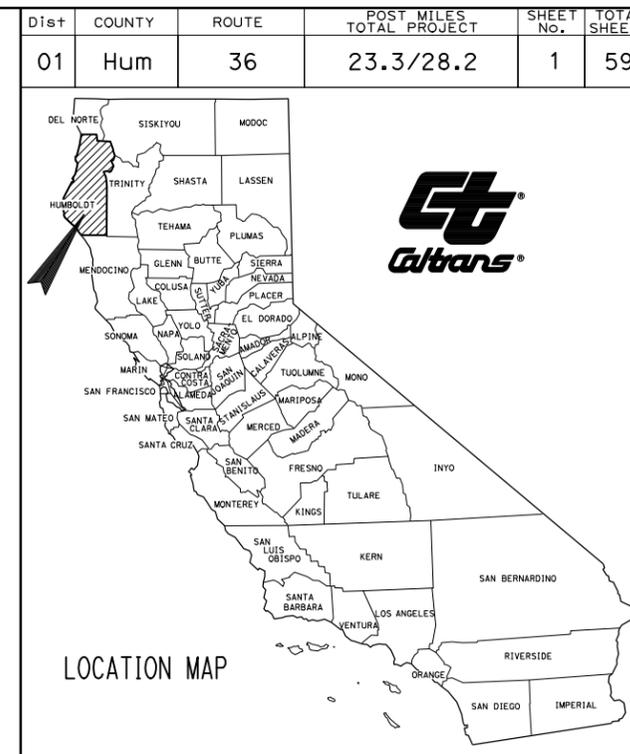
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

**STP-43L6(004)E**

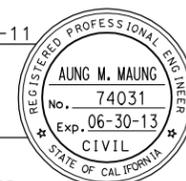
**STATE OF CALIFORNIA**  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN HUMBOLDT COUNTY NEAR BRIDGEVILLE**  
**AT VARIOUS LOCATIONS FROM 0.6 MILE WEST**  
**OF ALDERPOINT ROAD TO 2.9 MILES EAST**  
**OF LITTLE LARABE CREEK BRIDGE**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



NO SCALE

PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER  
**May 31, 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.	<b>01-475504</b>
PROJECT ID	<b>0100000340</b>

PROJECT MANAGER  
 FRANK DEMLING  
 DESIGN ENGINEER  
 GARY S. BIRCH

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

DATE PLOTTED => 29-JUL-2011  
 TIME PLOTTED => 10:01  
 LAST REVISION 05-23-11

**NOTES:**

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATIONS ARE SHOWN ON THE SUPERELEVATION DIAGRAMS OR AS DIRECTED BY THE ENGINEER.
3. DIKE TYPE AND LOCATIONS ARE SHOWN ON THE LAYOUTS.
4. MBGR LOCATION IS SHOWN ON THE LAYOUTS.
5. FOR REPLACE ASPHALT CONCRETE SURFACING LOCATIONS AND DEPTH, SEE LAYOUT AND SUMMARY OF QUANTITIES SHEETS.

**DESIGN DESIGNATION**

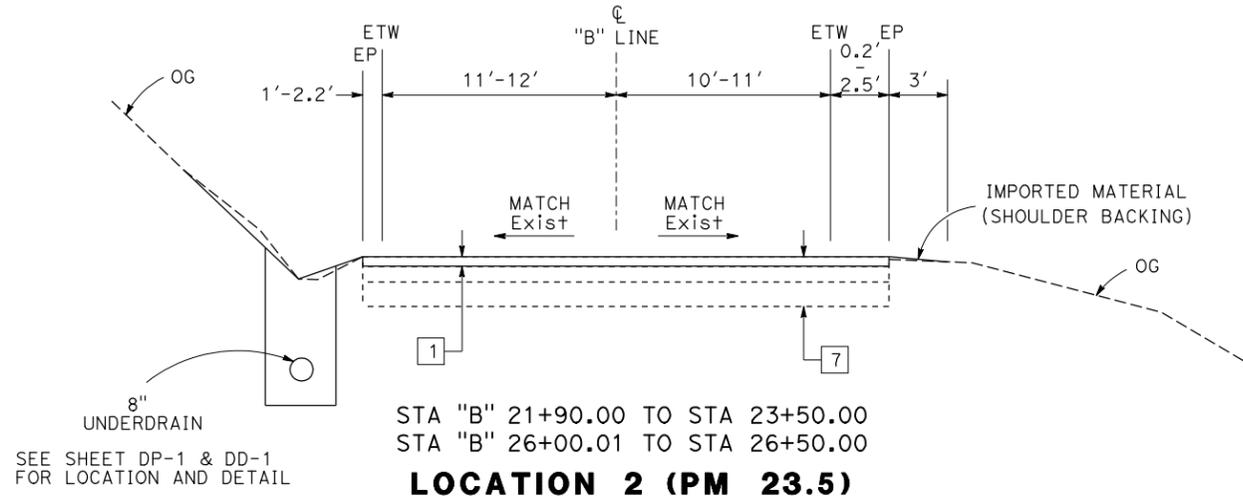
ADT (2011) 1,240  
 DHV 320  
 D 60%  
 T 6%

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	2	59

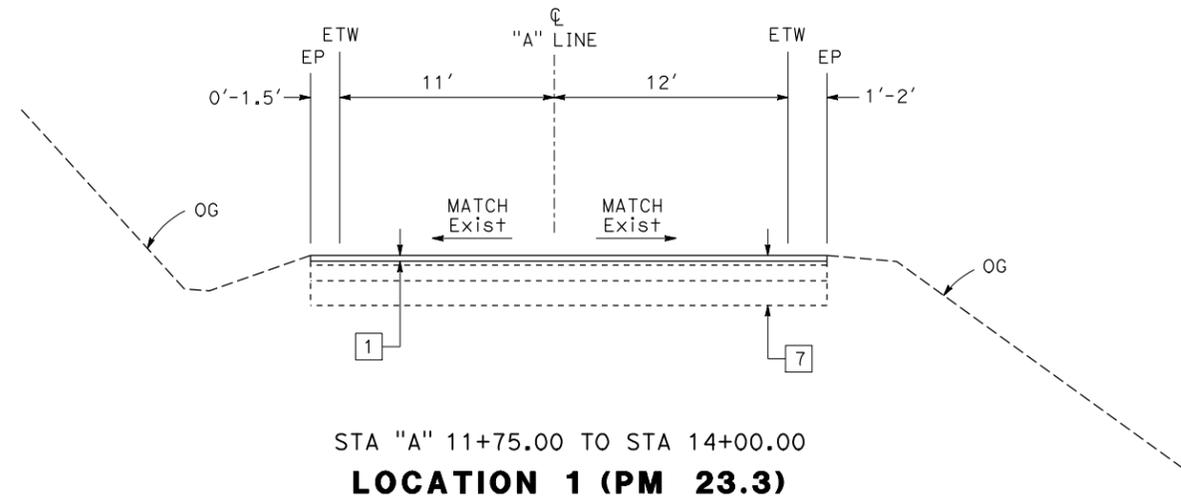
REGISTERED CIVIL ENGINEER  
 AUNG M. MAUNG  
 No. 74031  
 Exp. 06-30-13  
 CIVIL  
 STATE OF CALIFORNIA

5-13-11  
 DATE  
 5-31-11  
 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.



STA "B" 21+90.00 TO STA 23+50.00  
 STA "B" 26+00.01 TO STA 26+50.00  
**LOCATION 2 (PM 23.5)**



STA "A" 11+75.00 TO STA 14+00.00  
**LOCATION 1 (PM 23.3)**

**TYPICAL STRUCTURAL SECTIONS**

- 1 0.15' HMA (TYPE A)  
0.15' COLD PLANE AC PAVEMENT
- 2 0.40' HMA (TYPE A)  
1.35' CLASS 2 AB
- 3 0.40' HMA (TYPE A)  
0.90' CLASS 2 AB
- 4 0.10' HMA (OPEN GRADED)  
0.15' HMA (TYPE A)  
0.20' COLD PLANE AC PAVEMENT
- 5 0.10' HMA (OPEN GRADED)  
0.30' HMA (TYPE A)  
0.35' COLD PLANE AC PAVEMENT
- 6 0.10' HMA (OPEN GRADED)  
0.40' HMA (TYPE A)  
1.25' CLASS 2 AB
- 7 Exist  
0.25' & Var AC  
0.50' AB  
0.75' AS
- 8 Exist  
0.30' & Var AC \*  
0.80' AB
- 9 Exist  
0.06' OGAC  
0.34' & Var AC  
1.75' AB

\* ANTICIPATED TO HAVE EXISTING AC THICKNESS OF SEVERAL FEET AT SOME SECTIONS WITHIN LOCATION-3 PROJECT LIMITS.

**TYPICAL CROSS SECTIONS**

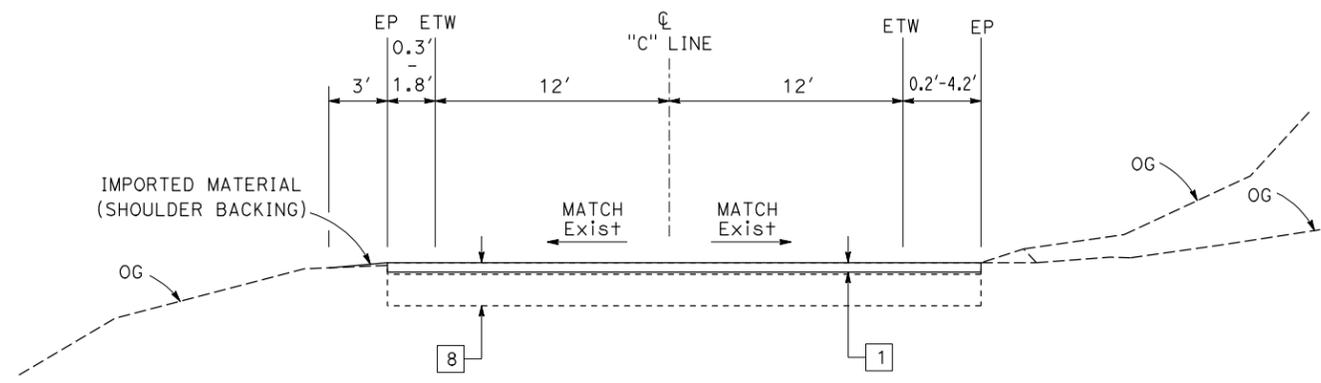
NO SCALE

**X-1**



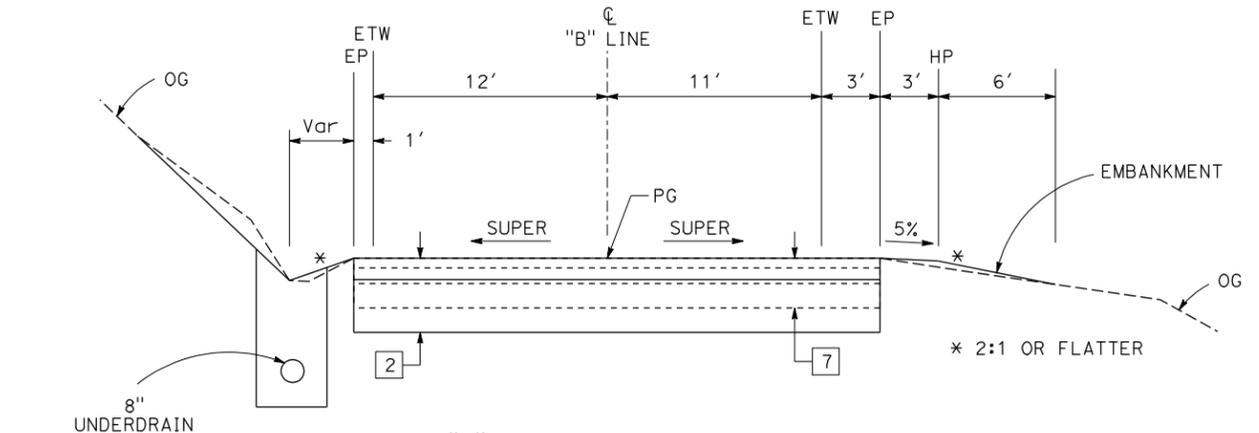
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	3	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**NOTE:**  
 1. FOR SHOULDER CONSTRUCTION FROM STATION 30+35 TO 30+82 SEE CONSTRUCTION DETAIL SHEET C1.



STA "C" 30+00.00 TO STA 31+00.00  
 STA "C" 42+00.01 TO STA 43+75.00

**LOCATION 3  
 (PM 26.4/26.7)**



STA "B" 23+50.01 TO STA 26+00.00

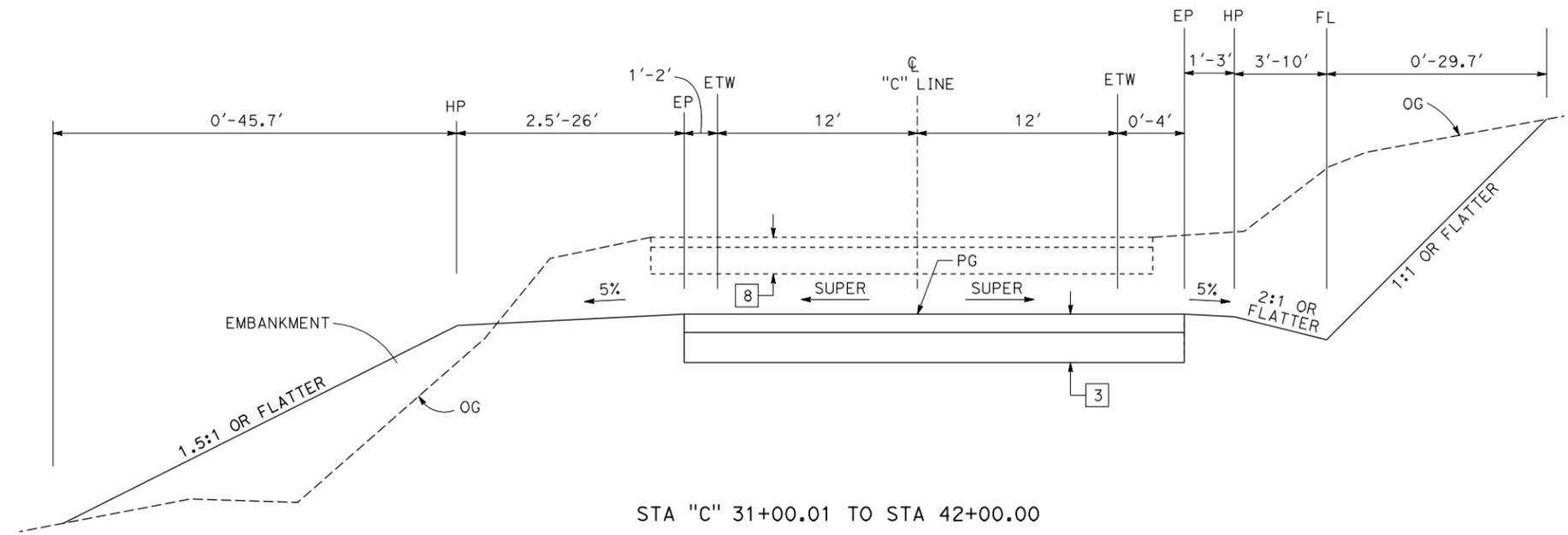
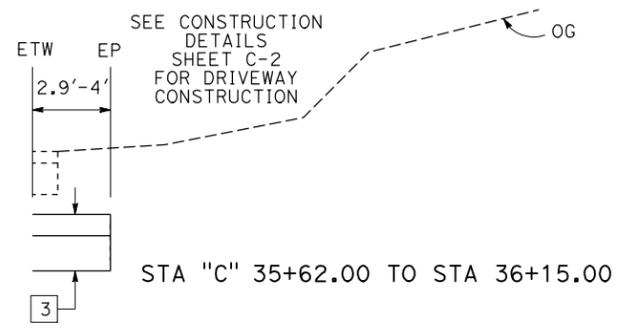
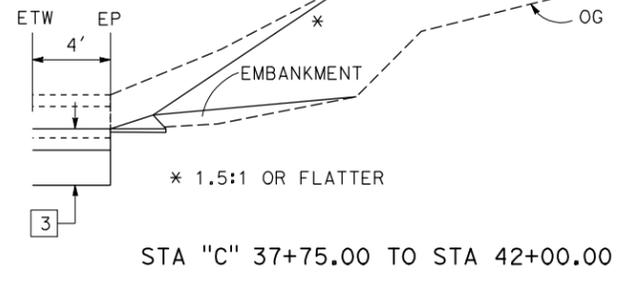
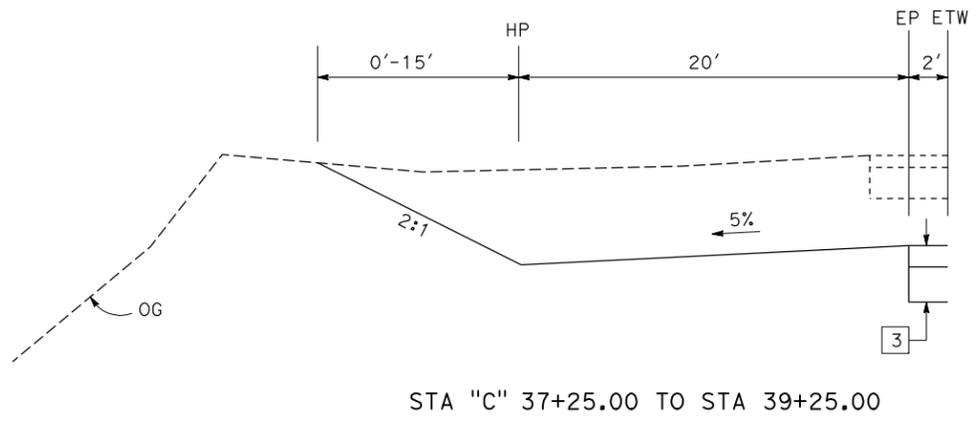
**LOCATION 2 (PM 23.5)**

SEE SHEET DP-1 & DD-1 FOR LOCATION AND DETAIL

**TYPICAL CROSS SECTIONS**  
 NO SCALE **X-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>St. Caltrans</b>	GARY S. BIRCH	AUNG M. MAUNG	
<b>03-DESIGN</b>	CHECKED BY	SUKHDEEP S. SANDHER	
	DESIGNED BY		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	4	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	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.					



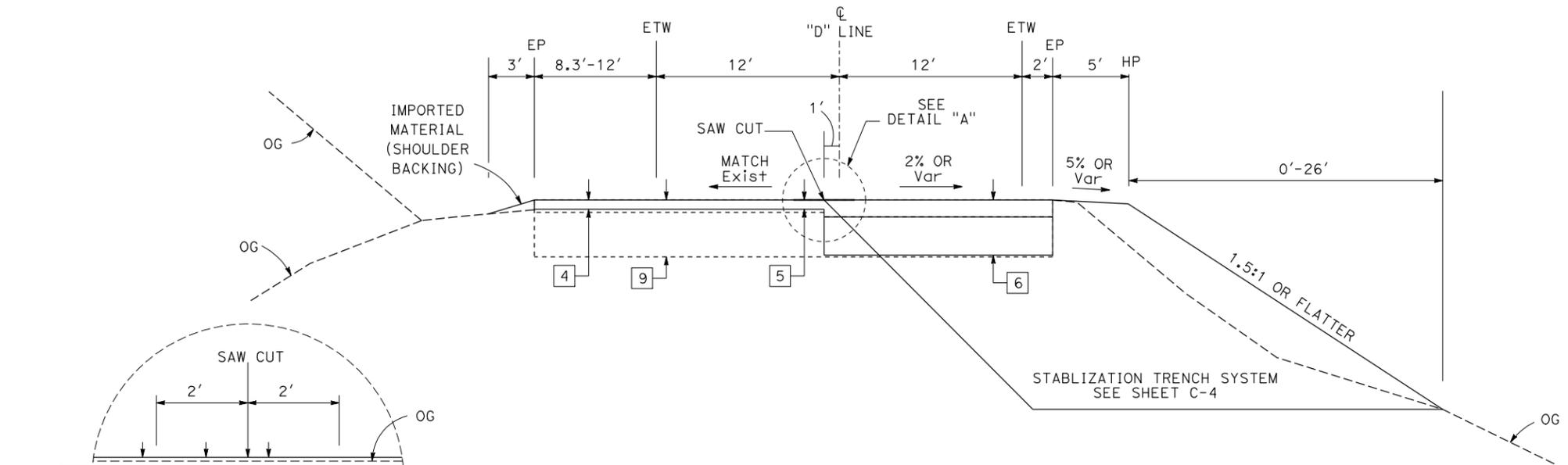
**TYPICAL CROSS SECTIONS**  
NO SCALE **X-3**

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

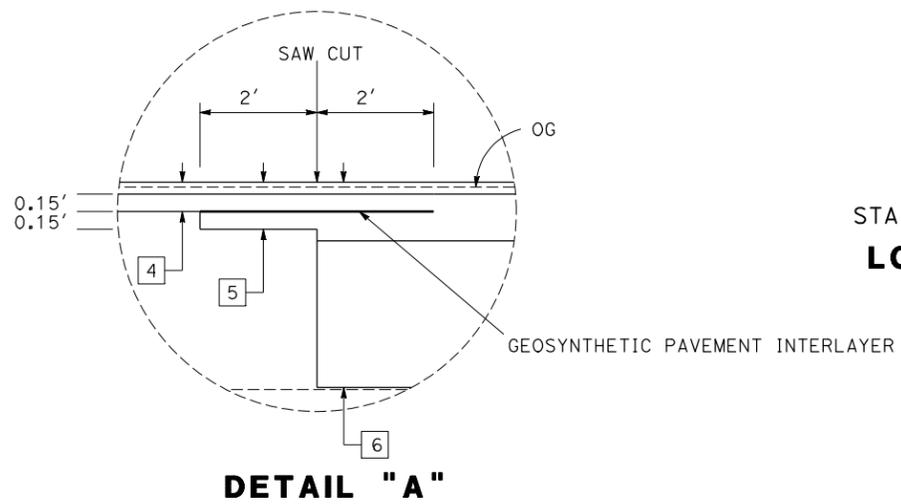
FUNCTIONAL SUPERVISOR: GARY S. BIRCH  
DESIGNED BY: AUNG M. MAUNG  
CHECKED BY: SUKHDEEP S. SANDHER

REVISOR: AUNG M. MAUNG  
DATE: 5-13-11

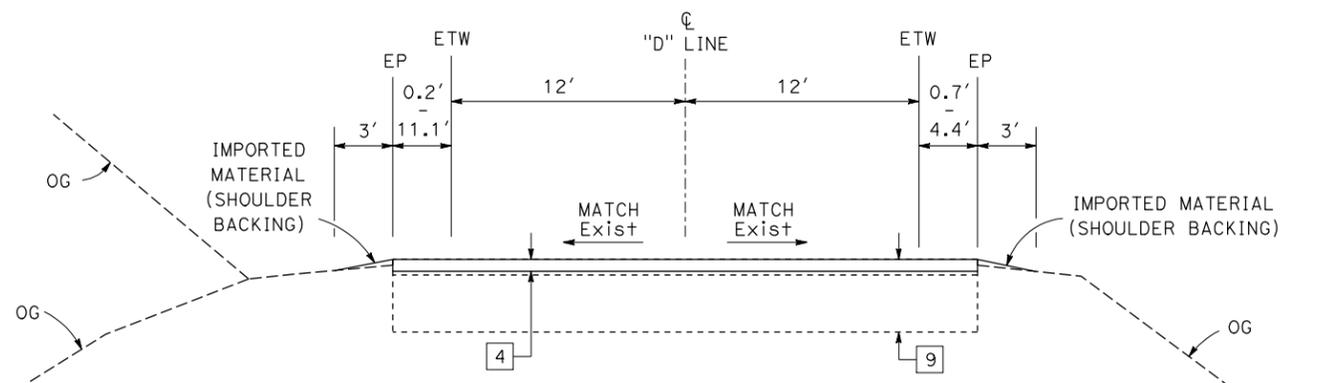
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	5	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



STA "D" 41+93.01 TO STA 43+75.00  
**LOCATION 4 (PM 28.2)**



**DETAIL "A"**



STA "D" 43+75.01 TO STA 45+50.00  
 STA "D" 40+50.00 TO STA 41+93.00  
**LOCATION 4 (PM 28.2)**

**TYPICAL CROSS SECTIONS**  
 NO SCALE **X-4**

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

FUNCTIONAL SUPERVISOR: GARY S. BIRCH  
 CHECKED BY: [blank]  
 DESIGNED BY: [blank]  
 AUNG M. MAUNG  
 SUKHDEEP S. SANDHER  
 REVISED BY: [blank]  
 DATE REVISED: [blank]

USERNAME => s130875  
 DGN FILE => 147550cd004.dgn

RELATIVE BORDER SCALE IS IN INCHES  
 0 1 2 3

UNIT 0304

PROJECT NUMBER & PHASE

01000003401

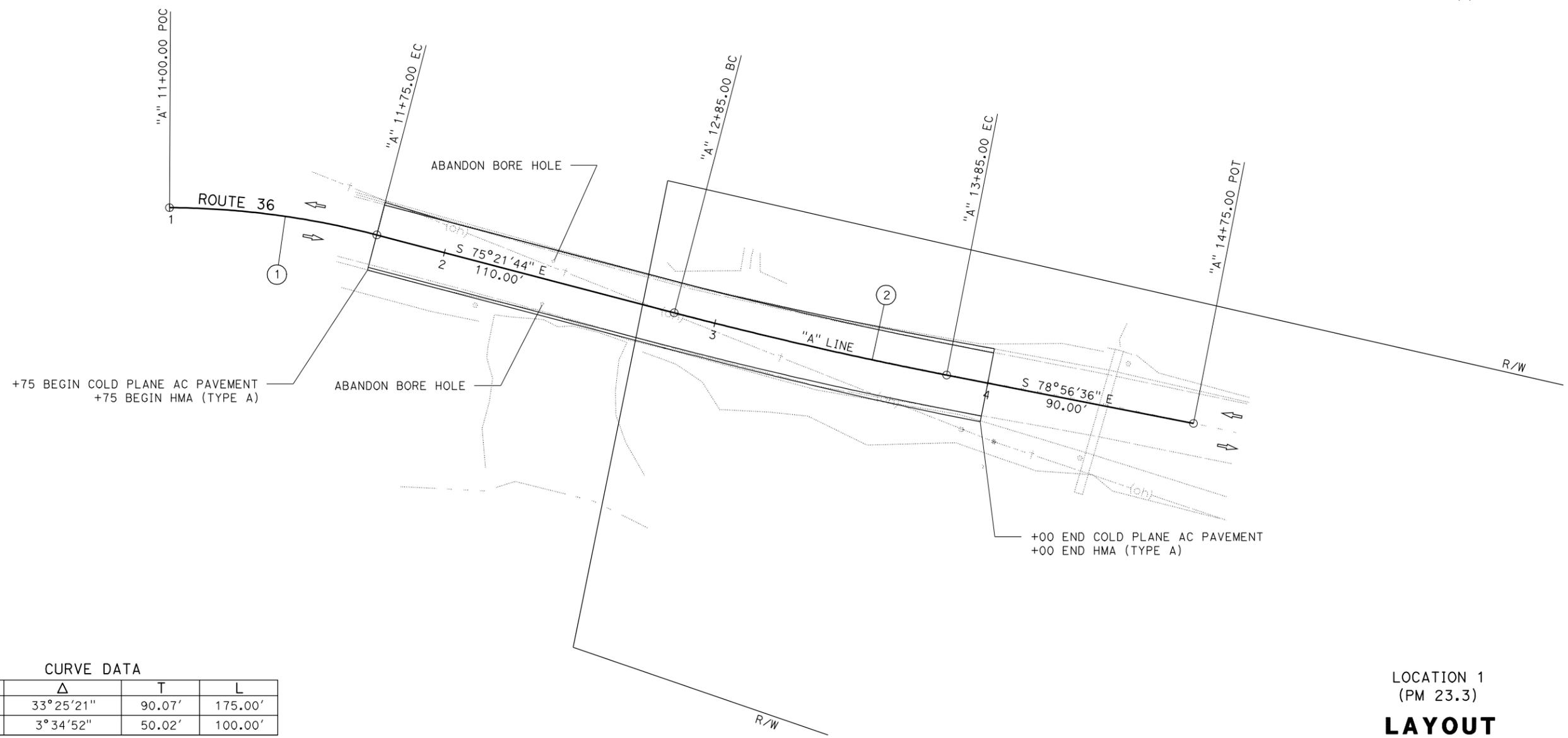
DATE PLOTTED => 29-JUL-2011  
 TIME PLOTTED => 10:01  
 LAST REVISION  
 05-23-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	6	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	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:**  
 1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
 2. SEE CONSTRUCTION DETAILS SHEET C-1 FOR ABANDON BORE HOLE DETAIL.

- LEGEND:**
- DIRECTION OF TRAFFIC
  - DITCH FLOW LINE
  - DRAINAGE SYSTEM NUMBER
  - DRAINAGE UNIT
  - REPLACE AC SURFACING
  - TFESA
  - WETLAND BOUNDARY

**ABBREVIATION:**  
 TCE TEMPORARY CONSTRUCTION EASEMENT

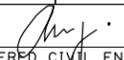
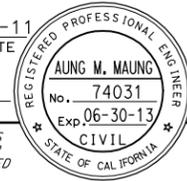


**CURVE DATA**

No.	R	Δ	T	L
①	300.00'	33°25'21"	90.07'	175.00'
②	1600.00'	3°34'52"	50.02'	100.00'

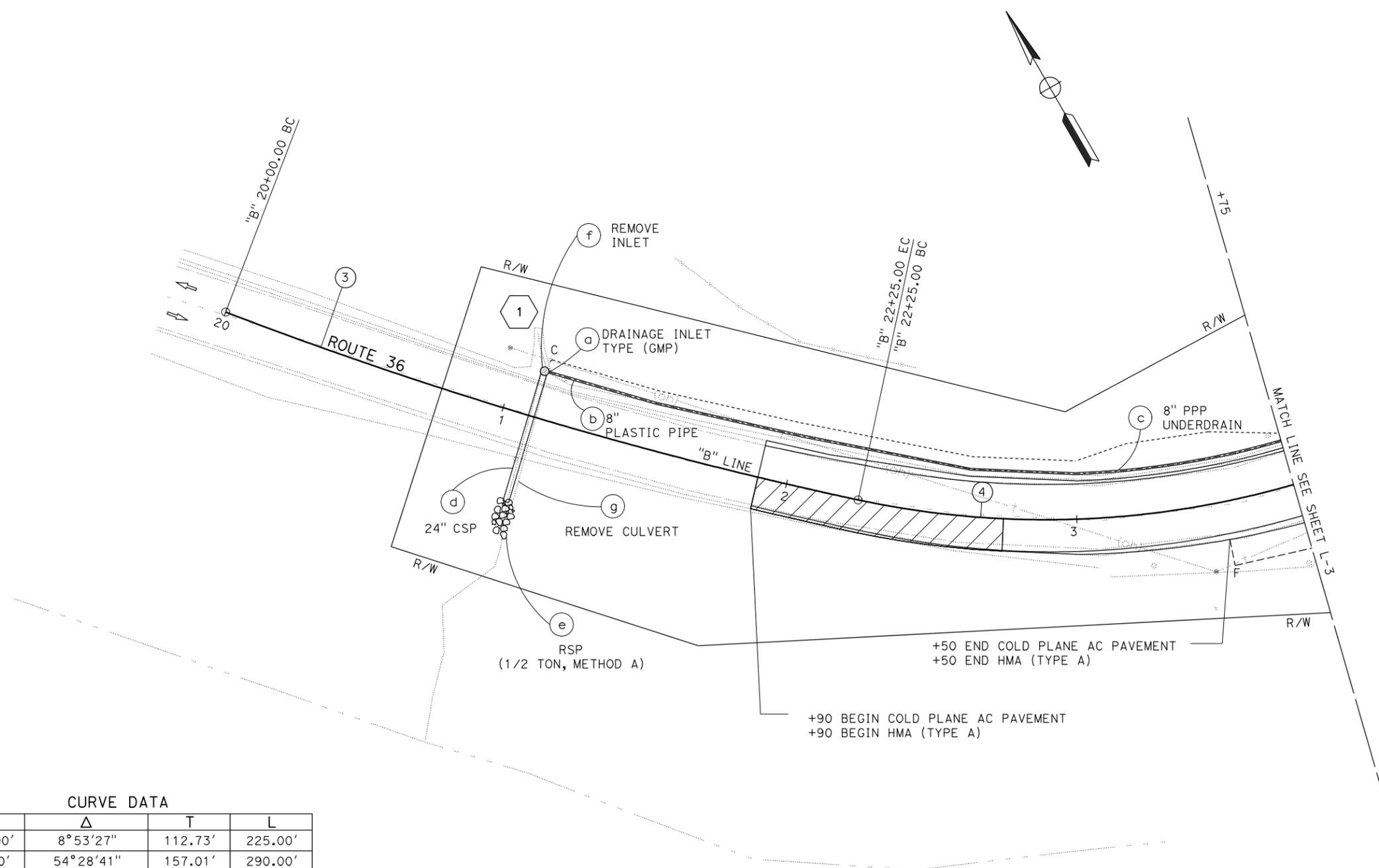
LOCATION 1  
 (PM 23.3)  
**LAYOUT**  
 SCALE: 1"=20' **L-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
**03-DESIGN**  
 FUNCTIONAL SUPERVISOR: GARY S. BIRCH  
 CALCULATED-DESIGNED BY: AUNG M. MAUNG  
 CHECKED BY: SUKHDEEP S. SANDHER  
 REVISED BY: AUNG M. MAUNG  
 DATE REVISED: SUKHDEEP S. SANDHER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	7	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
5-31-11			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>					

**NOTE:**  
1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans**  
**03-DESIGN**  
 FUNCTIONAL SUPERVISOR: GARY S. BIRCH  
 DESIGNED BY: AUNG M. MAUNG  
 CHECKED BY: SUKHDEEP S. SANDHER  
 REVISED BY: [ ]  
 DATE REVISED: [ ]



CURVE DATA

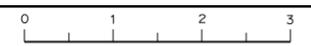
No.	R	Δ	T	L
③	1450.00'	8°53'27"	112.73'	225.00'
④	305.00'	54°28'41"	157.01'	290.00'

LOCATION 2  
(PM 23.5)

**LAYOUT**

SCALE: 1"=20'

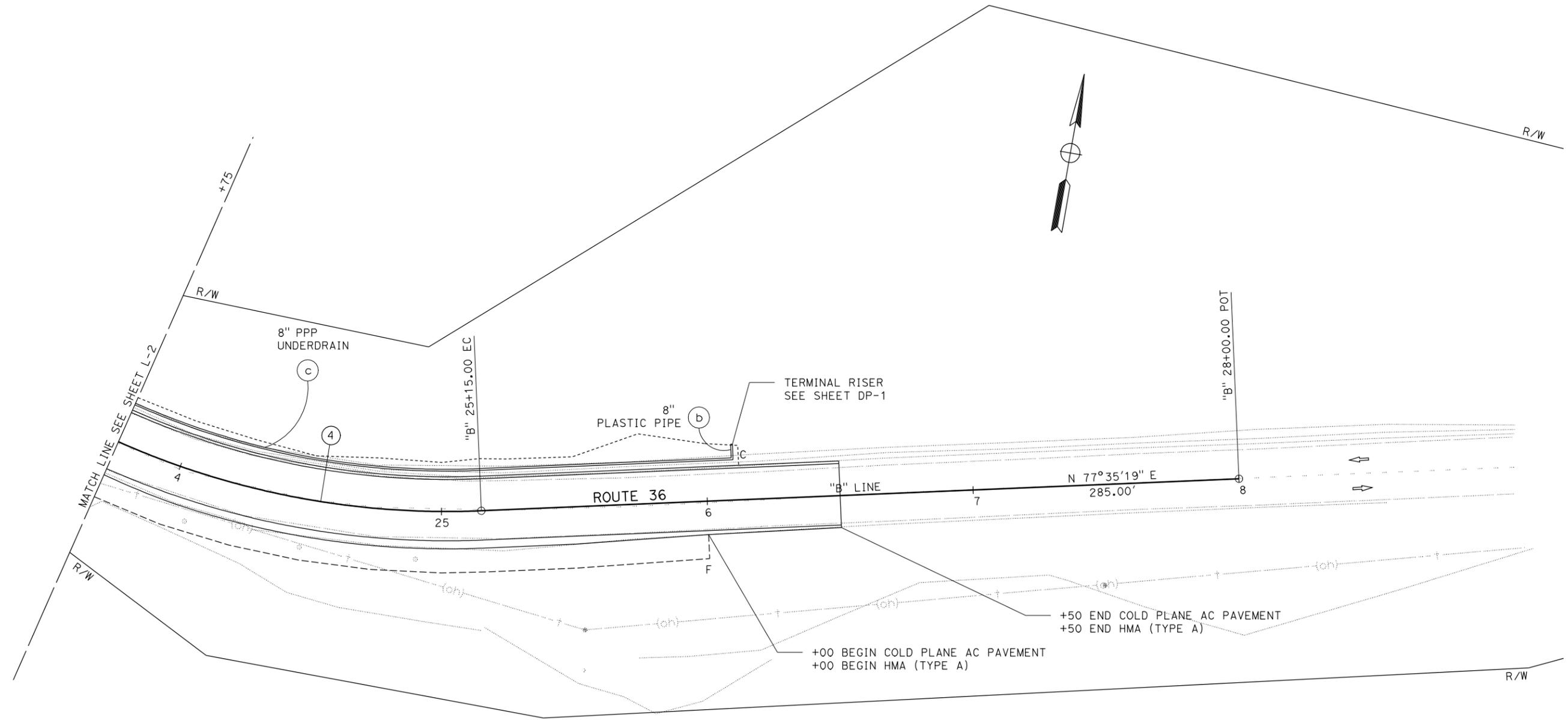
**L-2**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	8	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	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>					

**NOTE:**  
1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans**  
**03-DESIGN**  
 FUNCTIONAL SUPERVISOR: GARY S. BIRCH  
 CALCULATED-DRAWN BY: AUNG M. MAUNG  
 CHECKED BY: SUKHDEEP S. SANDHER  
 REVISED BY: DATE  
 REVISIONS:



**CURVE DATA**

No.	R	Δ	T	L
④	305.00'	54°28'41"	157.01'	290.00'

LOCATION 2  
(PM 23.5)

**LAYOUT**

SCALE: 1"=20'

**L-3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	9	59

REGISTERED CIVIL ENGINEER	DATE
<i>[Signature]</i>	5-13-11
PLANS APPROVAL DATE	
5-31-11	

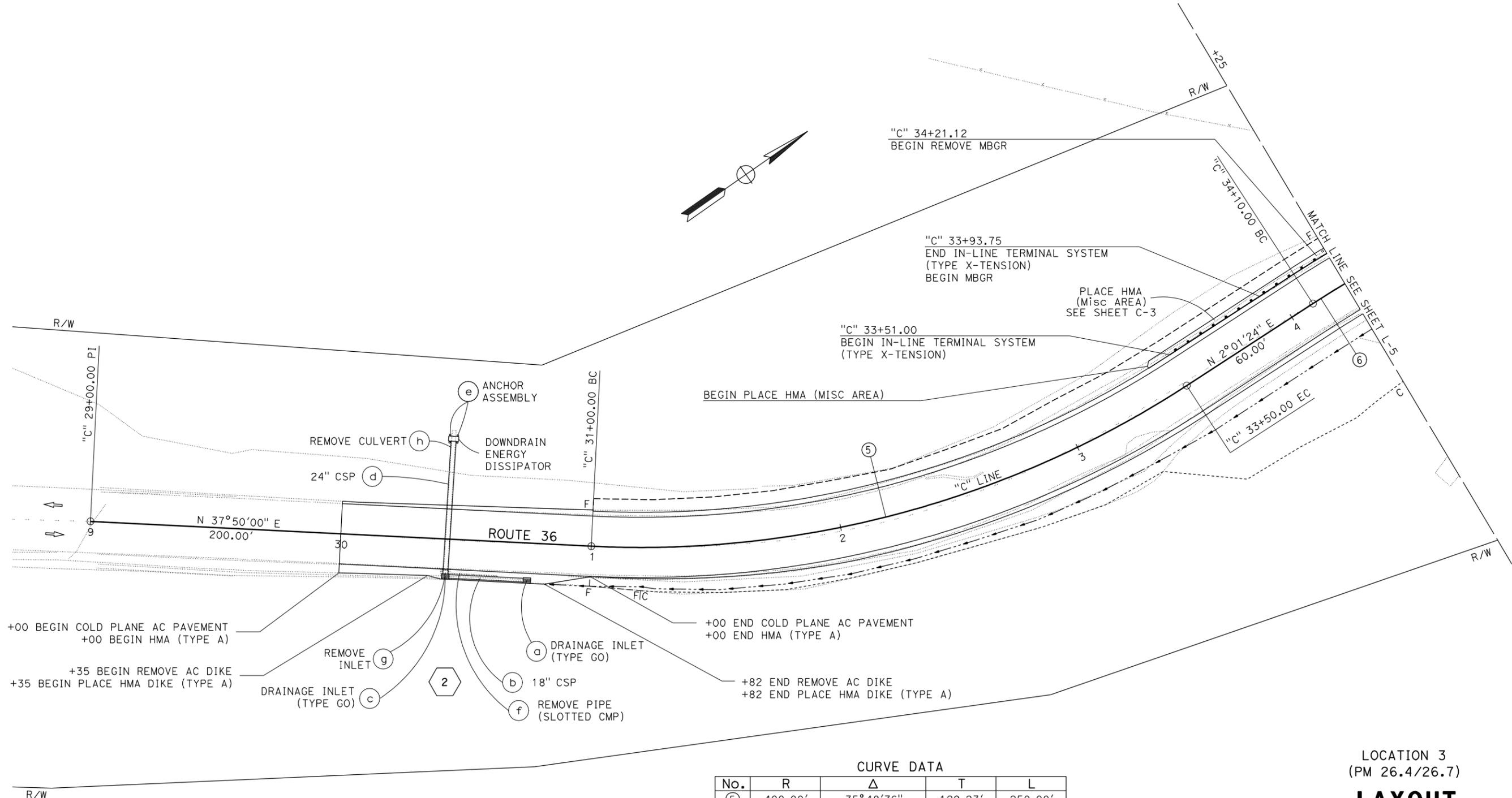
  

REGISTERED PROFESSIONAL ENGINEER
AUNG M. MAUNG
No. 74031
Exp. 06-30-13
CIVIL
STATE OF CALIFORNIA

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

**NOTES:**  
 1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
 2. SEE CONSTRUCTION DETAILS SHEET C-3 AND DRAINAGE DETAILS SHEETS FOR PLACE HMA (Misc AREA) DETAIL.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**03-DESIGN**  
 GARY S. BIRCH  
 GARY S. BIRCH  
 AUNG M. MAUNG  
 SUKHDEEP S. SANDHER  
 REVISOR BY  
 DATE REVISOR



**CURVE DATA**

No.	R	Δ	T	L
⑤	400.00'	35°48'36"	129.23'	250.00'
⑥	400.00'	78°03'56"	324.29'	545.00'

LOCATION 3  
 (PM 26.4/26.7)

**LAYOUT**

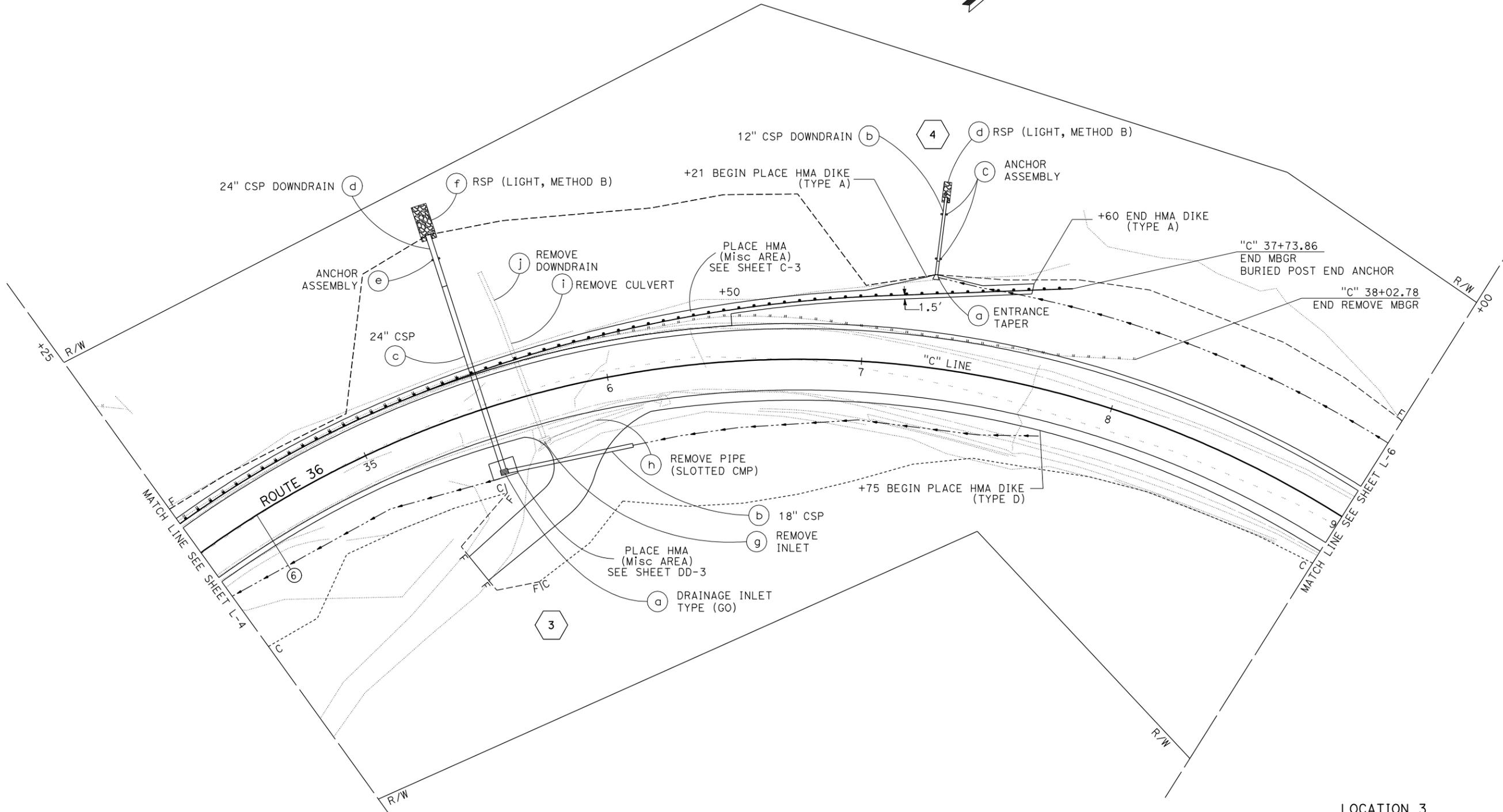
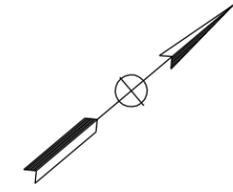
SCALE: 1"=20'

**L-4**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	10	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	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:**

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. THE END OF THE METAL BEAM GUARD RAILING IS TO BE BURIED IN THE CUT SLOPE, SEE STANDARD PLAN FOR DETAILS.
3. SEE CONSTRUCTION DETAILS SHEET C-2 FOR THE DRIVEWAY CONSTRUCTION.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
<b>03-DESIGN</b>	GARY S. BIRCH	AUNG M. MAUNG	AUNG M. MAUNG
		CHECKED BY	DATE REVISED
		SUKHDEEP S. SANDHER	

CURVE DATA

No.	R	Δ	T	L
⑥	400.00'	78°03'56"	324.29'	545.00'

LOCATION 3  
(PM 26.4/26.7)

**LAYOUT**

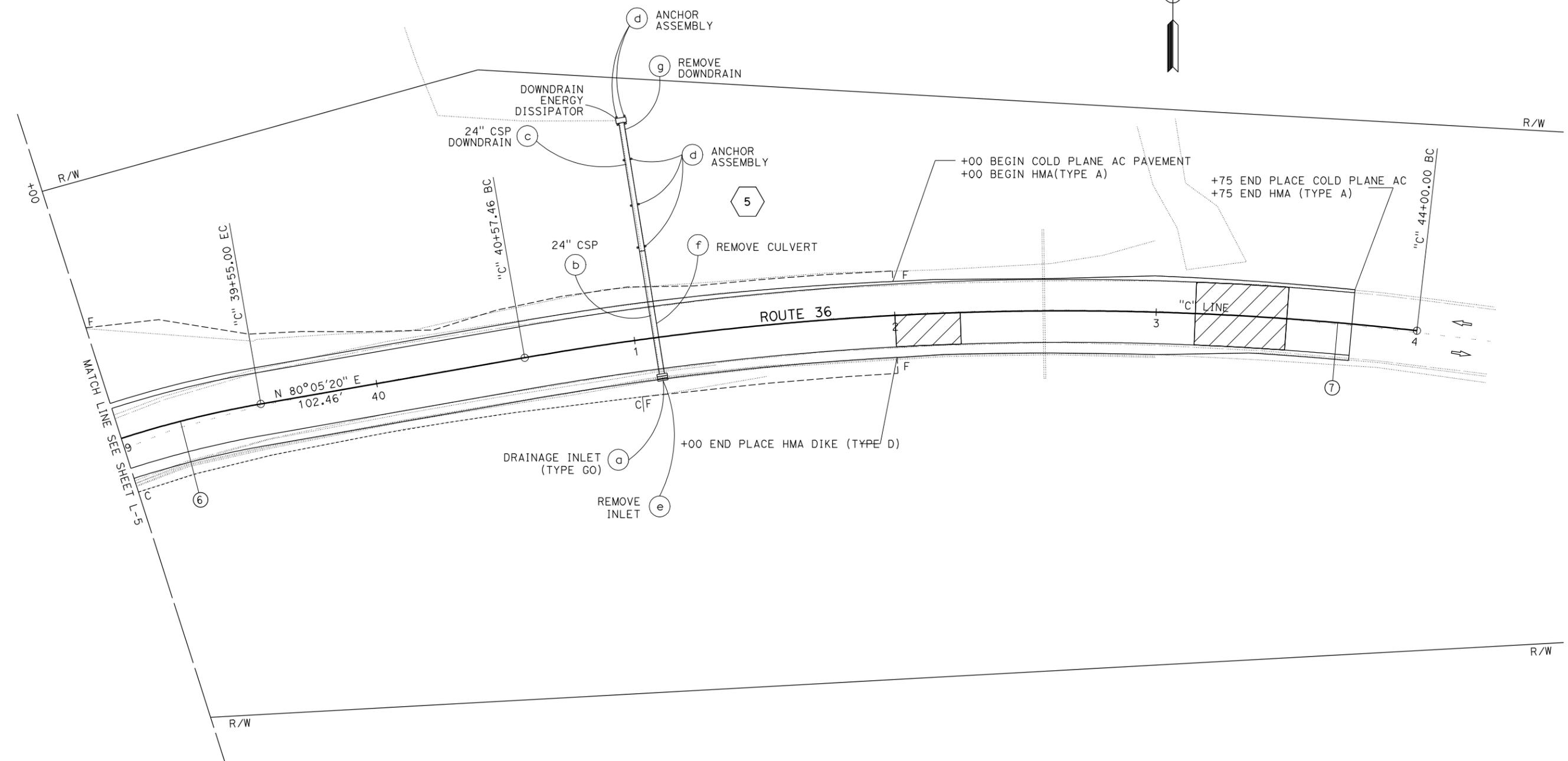
SCALE: 1"=20'

**L-5**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	11	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	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:**  
1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	AUNG M. MAUNG	REVISED BY	
<b>03-DESIGN</b>	GARY S. BIRCH	CHECKED BY	SUKHDEEP S. SANDHER	DATE	

**CURVE DATA**

No.	R	Δ	T	L
⑥	400.00'	78°03'56"	324.29'	545.00'
⑦	1200.00'	16°21'18"	172.44'	342.54'

LOCATION 3  
(PM 26.4/26.7)

**LAYOUT**

SCALE: 1"=20'

**L-6**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	12	59

REGISTERED CIVIL ENGINEER	DATE
<i>Aung M. Maung</i>	5-13-11
PLANS APPROVAL DATE	
	5-31-11

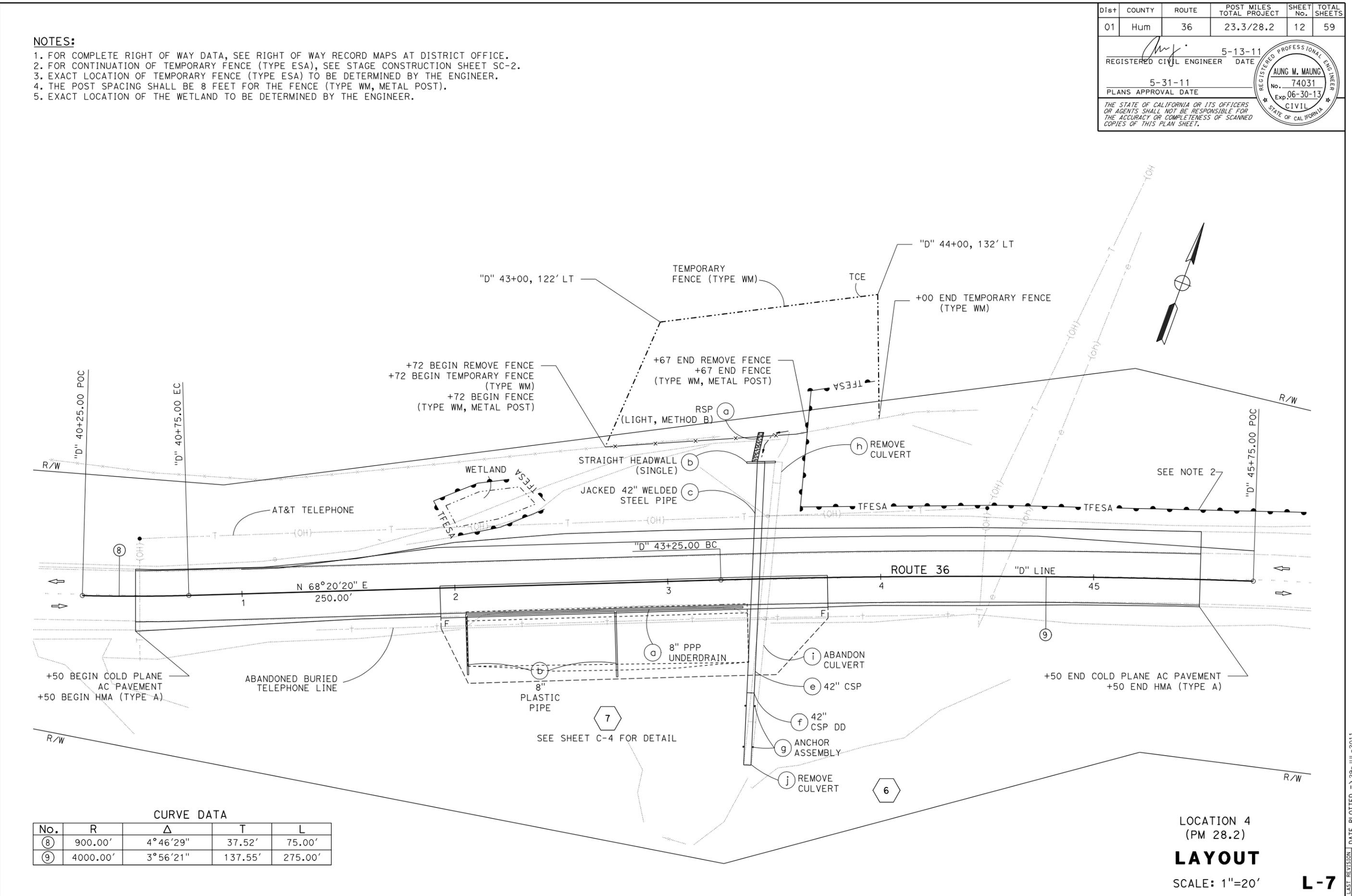
  

REGISTERED PROFESSIONAL ENGINEER
AUNG M. MAUNG
No. 74031
Exp. 06-30-13
CIVIL
STATE OF CALIFORNIA

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

**NOTES:**  
1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. FOR CONTINUATION OF TEMPORARY FENCE (TYPE ESA), SEE STAGE CONSTRUCTION SHEET SC-2.  
3. EXACT LOCATION OF TEMPORARY FENCE (TYPE ESA) TO BE DETERMINED BY THE ENGINEER.  
4. THE POST SPACING SHALL BE 8 FEET FOR THE FENCE (TYPE WM, METAL POST).  
5. EXACT LOCATION OF THE WETLAND TO BE DETERMINED BY THE ENGINEER.

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



**CURVE DATA**

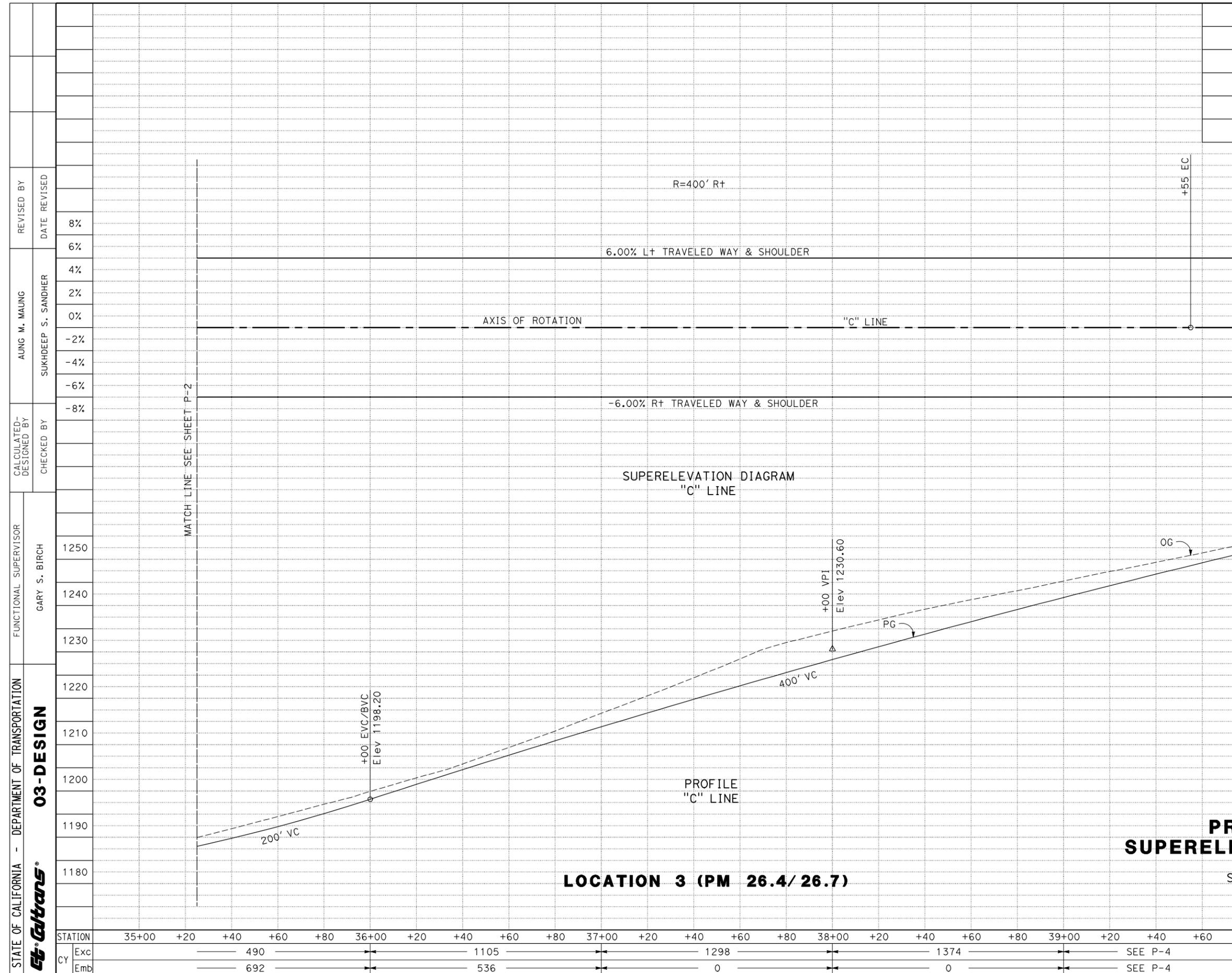
No.	R	Δ	T	L
⑧	900.00'	4°46'29"	37.52'	75.00'
⑨	4000.00'	3°56'21"	137.55'	275.00'

LOCATION 4  
(PM 28.2)  
**LAYOUT**  
SCALE: 1"=20' **L-7**





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	15	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	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>					

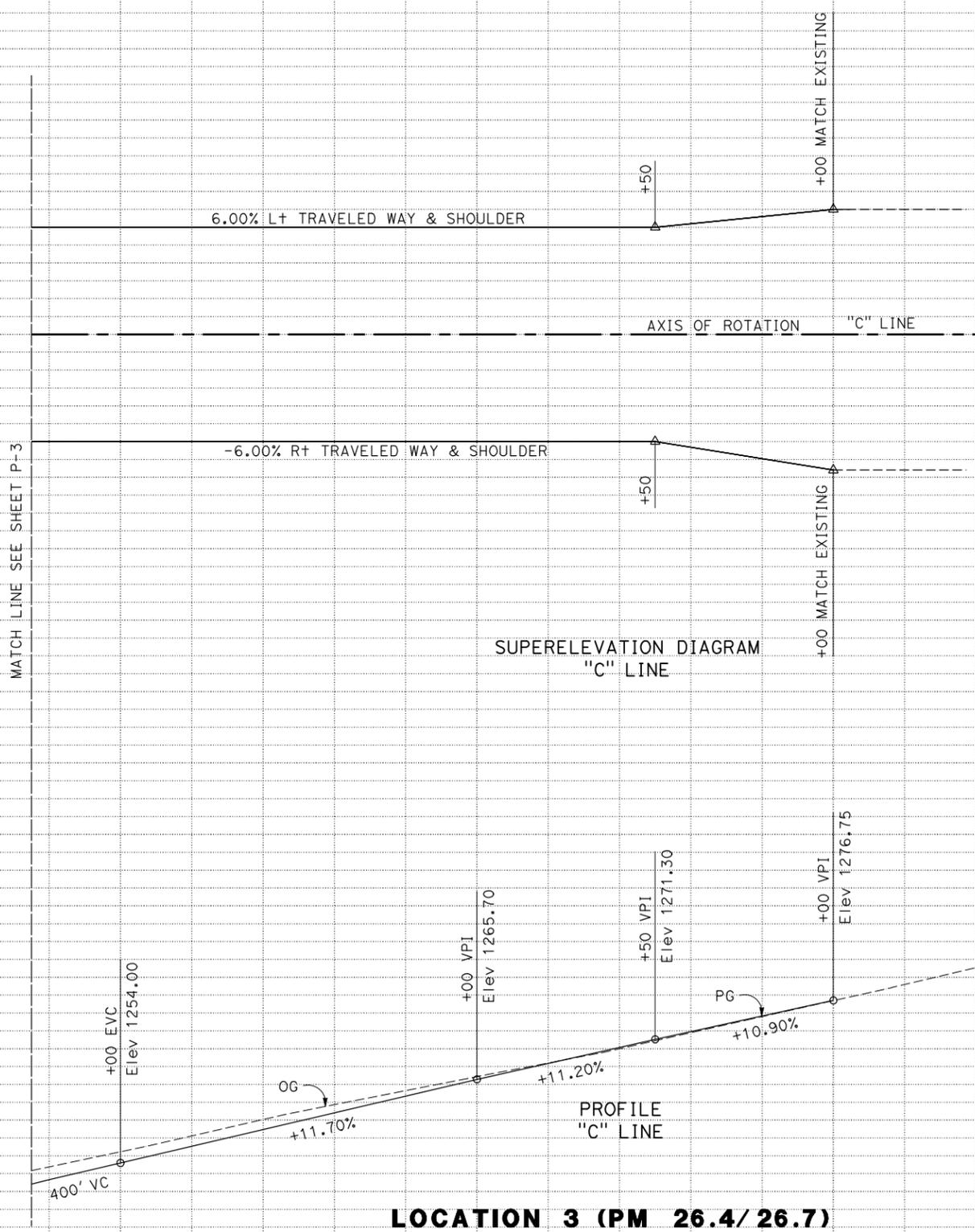


**PROFILE AND SUPERELEVATION DIAGRAM**  
 SCALE 1"=20' Horiz  
 1"=10' Vert  
**P-3**

**LOCATION 3 (PM 26.4/26.7)**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>St. Catrans</b>	FUNCTIONAL SUPERVISOR GARY S. BIRCH	CALCULATED-DESIGNED BY	CHECKED BY	AUNG M. MAUNG SUKHDEEP S. SANDHER	REVISED BY	DATE REVISED	8%	6%	4%	2%	0%	-2%	-4%	-6%	-8%	8%	6%	4%	2%	0%	-2%	-4%	-6%	-8%				
							1250	1240	1230	1220	1210	1200	1190	1180	1250	1240	1230	1220	1210	1200	1190	1180						
STATION	35+00	+20	+40	+60	+80	36+00	+20	+40	+60	+80	37+00	+20	+40	+60	+80	38+00	+20	+40	+60	+80	39+00	+20	+40	+60	+80	40+00	SUBTOTAL	TOTAL
CY	Exc																									4267		
	Emb																									1228		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	16	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	PLANS APPROVAL DATE	



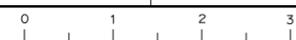
**LOCATION 3 (PM 26.4/26.7)**

**PROFILE AND SUPERELEVATION DIAGRAM**

SCALE 1"=20' Horiz  
1"=10' Vert

**P-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>St. Gobran</b>	FUNCTIONAL SUPERVISOR GARY S. BIRCH		CALCULATED-DESIGNED BY CHECKED BY		AUNG M. MAUNG SUKHDEEP S. SANDHER		REVISED BY DATE REVISED																						
	1310						8%																						
1300								6%																					
1290								4%																					
1280								2%																					
1270								0%																					
1260								-2%																					
1250								-4%																					
								-6%																					
								-8%																					
STATION	35+00	+20	+40	+60	+80	+40+00	+20	+40	+60	+80	41+00	+20	+40	+60	+80	42+00	+20	+40	+60	+80	43+00	+20	+40	+60	+80	44+00	SUBTOTAL	TOTAL	
Exc						582					278					126												986	7186
Emb						0					2					10												12	1262



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	17	59

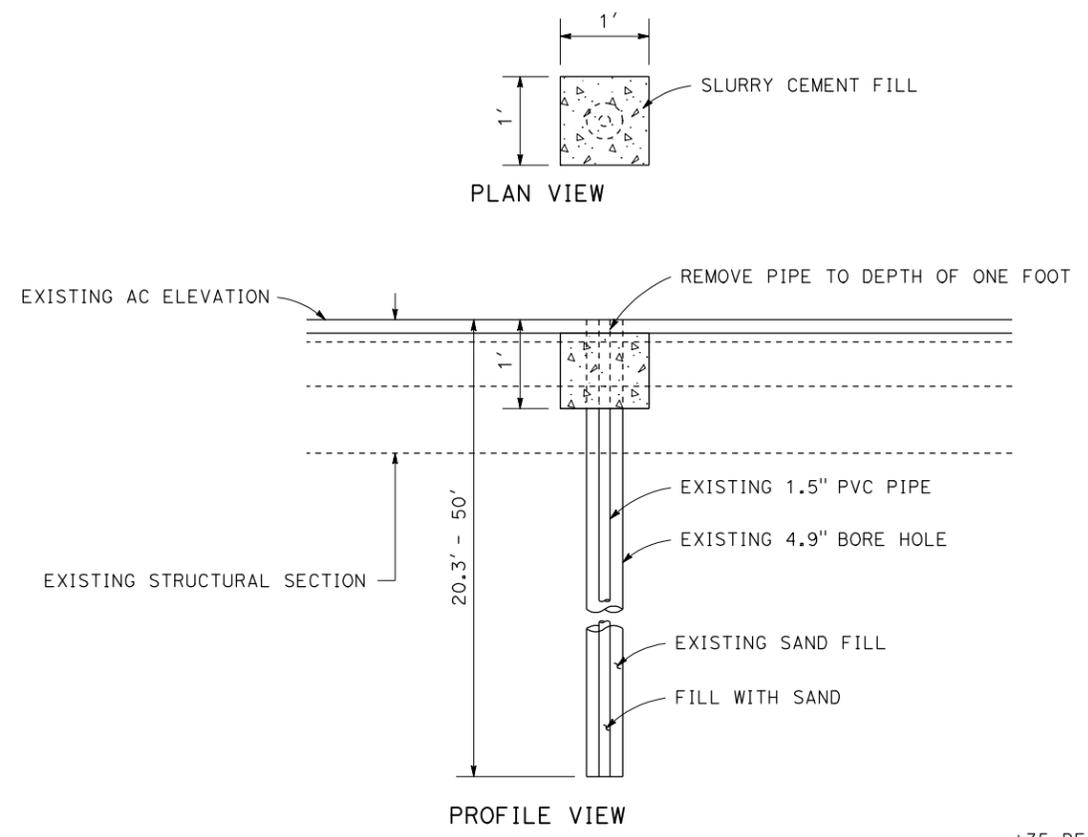
REGISTERED CIVIL ENGINEER	DATE
<i>Aung M. Maung</i>	5-13-11
PLANS APPROVAL DATE	
	5-31-11

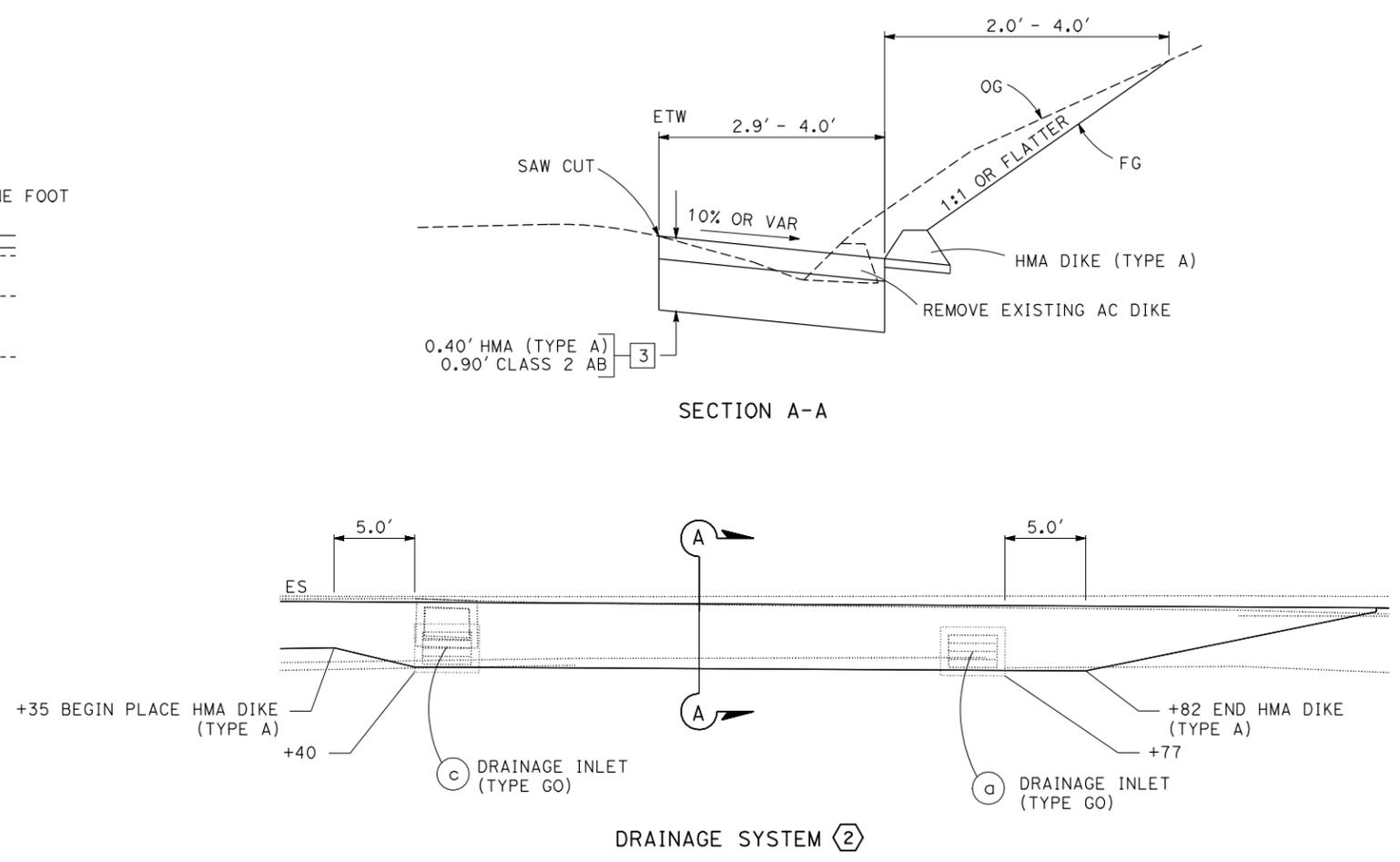
REGISTERED PROFESSIONAL ENGINEER
AUNG M. MAUNG
No. 74031
Exp. 06-30-13
CIVIL
STATE OF CALIFORNIA

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

- NOTES:**
1. REMOVE PVC PIPE TO A DEPTH OF ONE FOOT BEFORE PLACING SLURRY CEMENT.
  2. FILL REMAINING PVC PIPE WITH SAND BEFORE PLACING SLURRY CEMENT.



**ABANDON BORE HOLE DETAIL**  
LOCATION 1 (PM 23.3)



**SHOULDER CONSTRUCTION DETAIL**  
LOCATION-3 (PM 26.4/26.7)  
STA "C" 30+35 TO STA 30+82

**CONSTRUCTION DETAILS**

NO SCALE

**C-1**

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

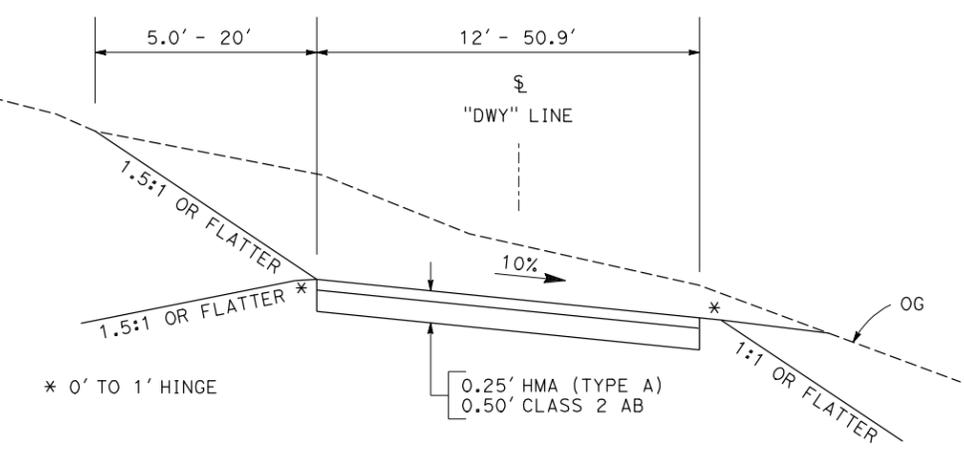
REVISOR: AUNG M. MAUNG  
DATE: LAN P. NGUYEN  
DESIGNED BY: GARY S. BIRCH  
CHECKED BY:



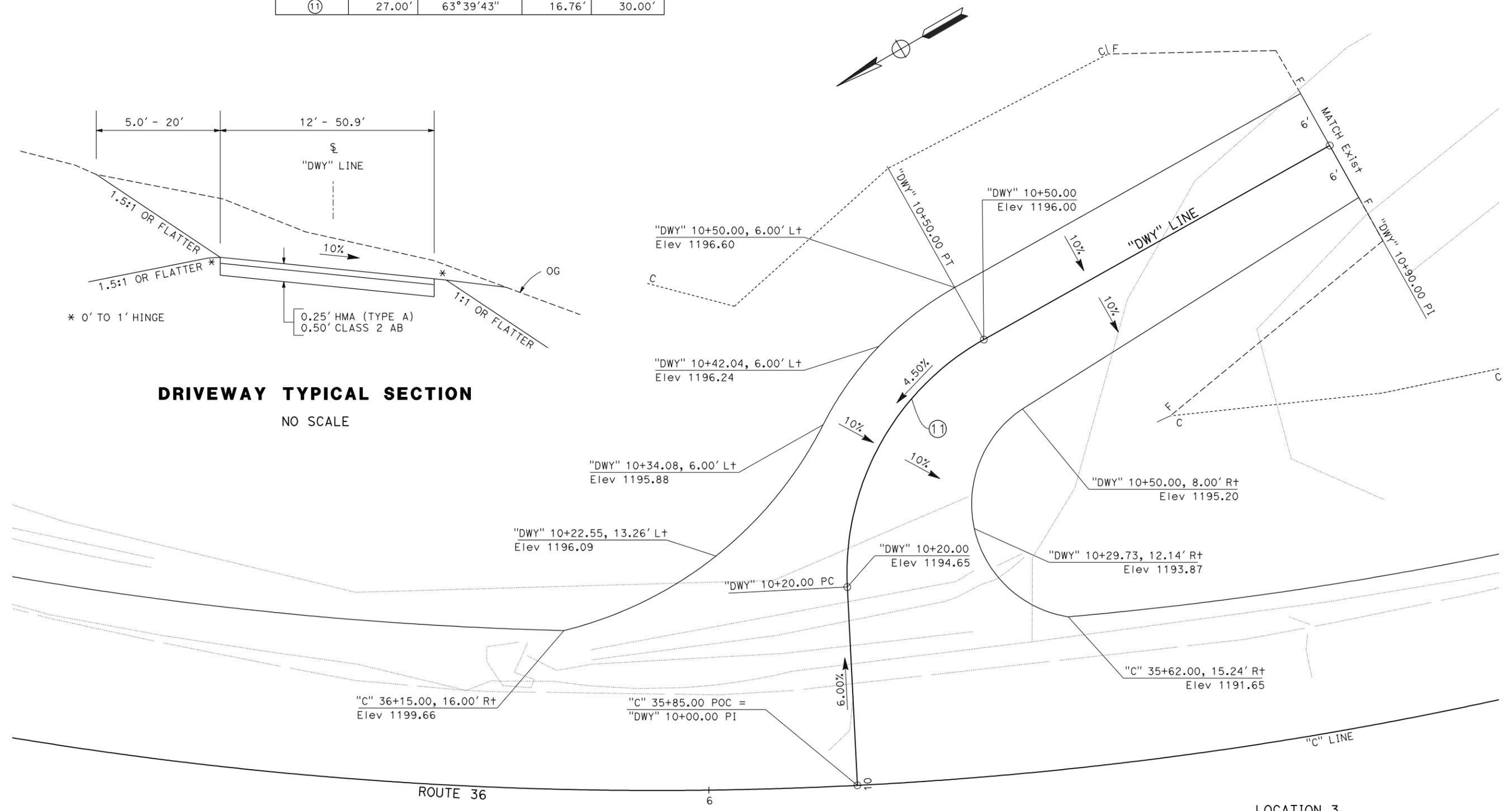
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	18	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**NOTE:**  
1. FOR QUANTITIES SEE SUMMARY OF QUANTITIES SHEET Q-1.

CURVE DATA				
No.	R	Δ	T	L
⑪	27.00'	63°39'43"	16.76'	30.00'



**DRIVEWAY TYPICAL SECTION**  
NO SCALE



LOCATION 3  
**CONSTRUCTION DETAILS**  
SCALE: 1"=5'

**C-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
03-DESIGN  
FUNCTIONAL SUPERVISOR: GARY S. BIRCH  
DESIGNED BY: AUNG M. MAUNG  
CHECKED BY: LAN P. NGUYEN  
REVISOR: [blank]  
DATE REVISOR: [blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	19	59

REGISTERED CIVIL ENGINEER	DATE
<i>Aung M. Maung</i>	5-13-11
PLANS APPROVAL DATE	
	5-31-11

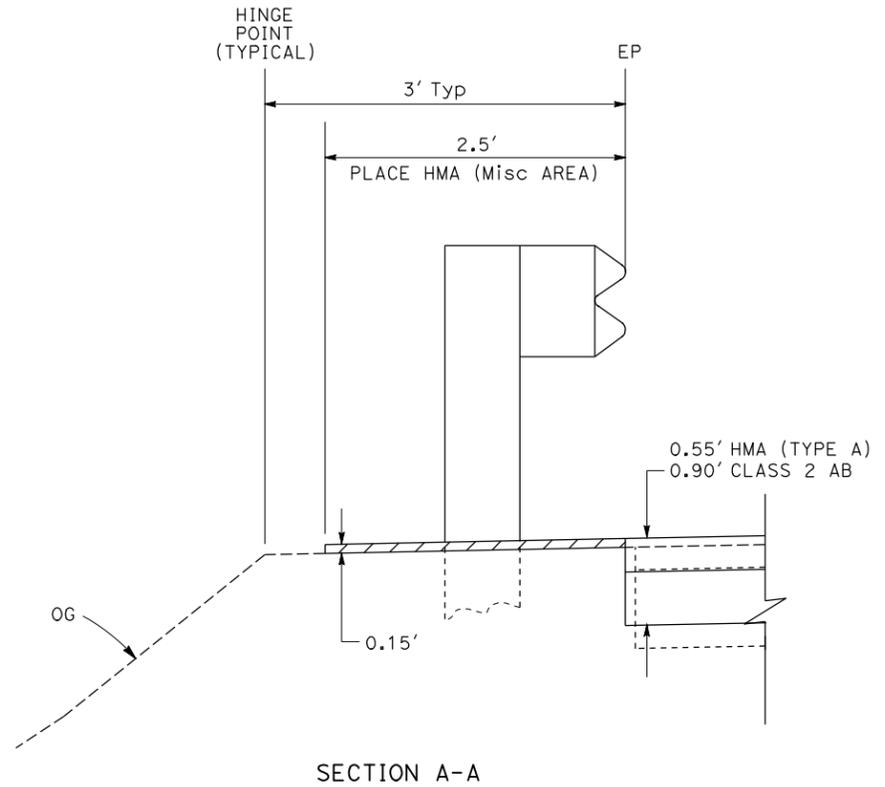
  

REGISTERED PROFESSIONAL ENGINEER
AUNG M. MAUNG
No. 74031
Exp. 06-30-13
CIVIL
STATE OF CALIFORNIA

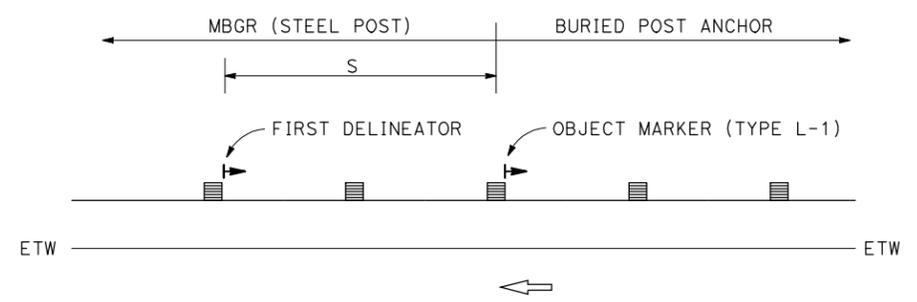
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**  
1. SEE L-4 AND L-5 FOR PLACE HOT MIX ASPHALT (Misc AREA) FOR MBGR FLARE SECTION AND BURIED END.

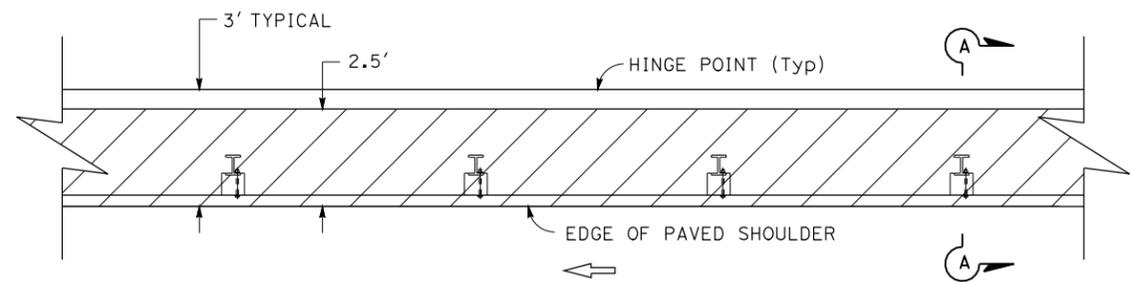
- LEGEND:**
-  DIRECTION OF TRAFFIC
  -  PLACE HOT MIX ASPHALT (Misc AREA)
  -  DELINEATOR OR MARKER
  - S DELINEATOR SPACING



SECTION A-A

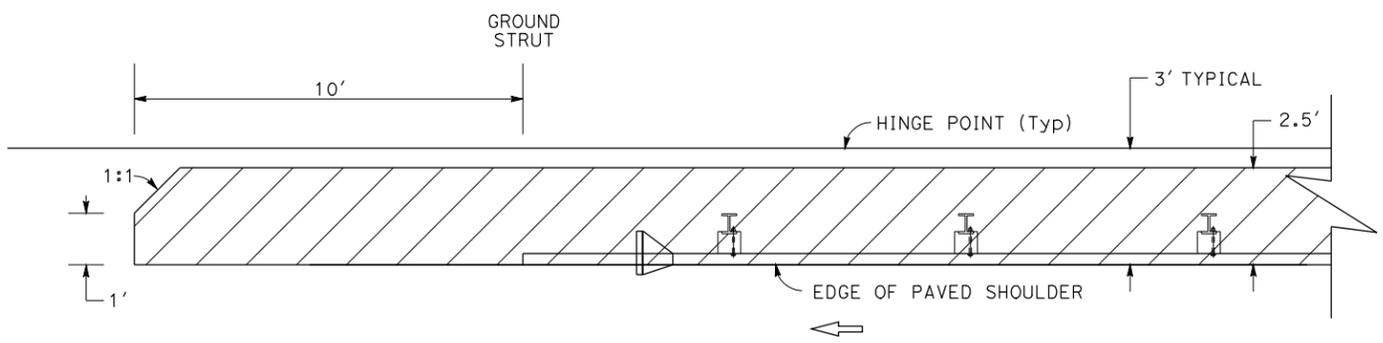


**MARKER AND DELINEATOR - LOCATION 3**  
MBGR (Typ)



PLAN  
TYPICAL RAILING SECTION

**PLACE HMA (Misc AREA)**



PLAN  
X-TENSION IN-LINE  
TERMINAL SYSTEM

**PLACE HMA (Misc AREA)**

**CONSTRUCTION DETAILS**

NO SCALE

**C-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 03-DESIGN  
 FUNCTIONAL SUPERVISOR: GARY S. BIRCH  
 CALCULATED/DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]  
 AUNG M. MAUNG  
 LAN P. NGUYEN  
 REVISED BY: [Blank]  
 DATE REVISED: [Blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	20	59

REGISTERED CIVIL ENGINEER	DATE
<i>[Signature]</i>	5-13-11
PLANS APPROVAL DATE	5-31-11

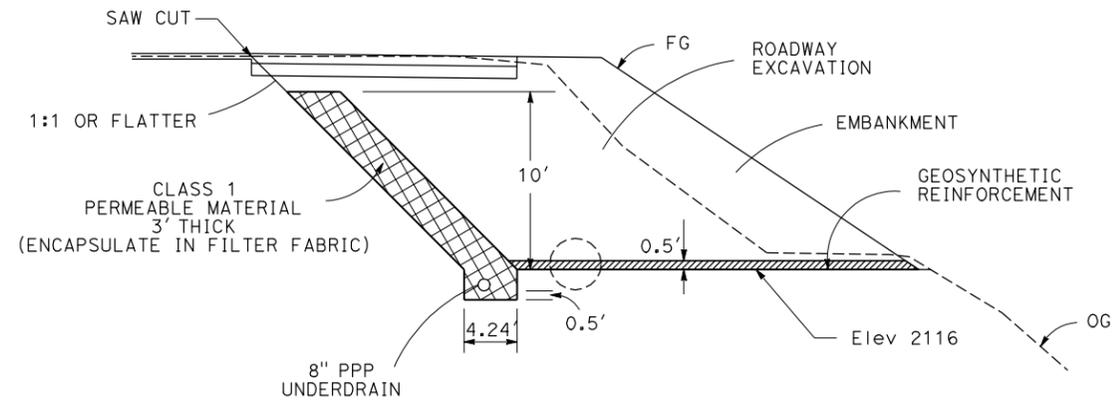
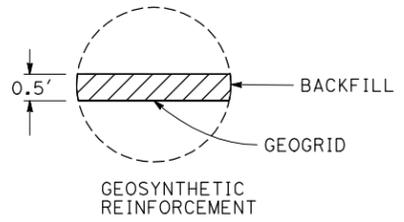
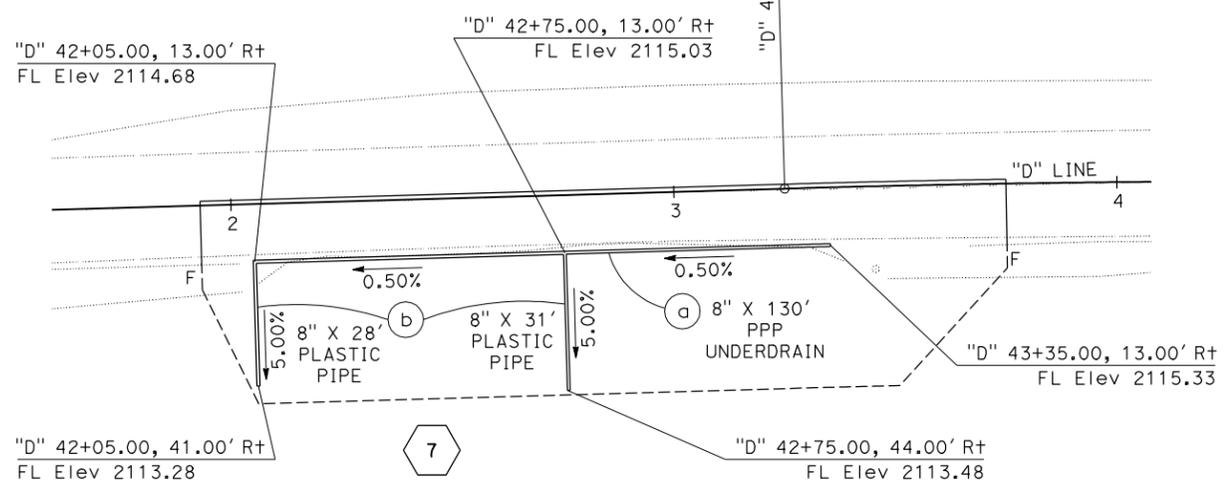
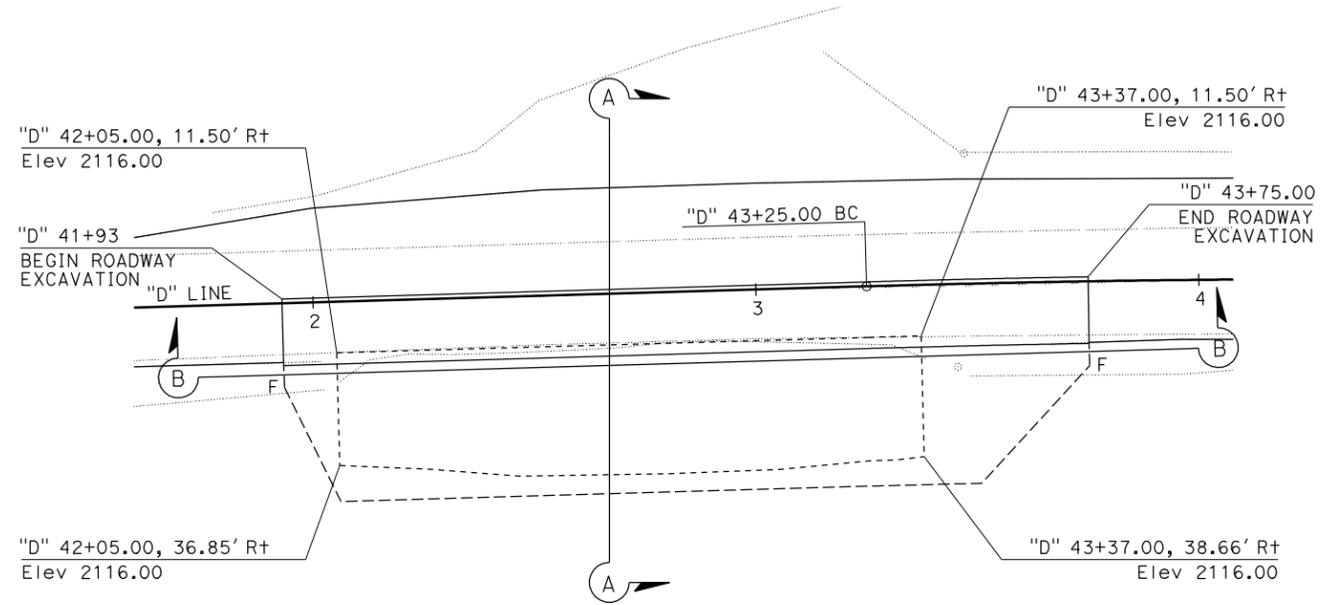
REGISTERED PROFESSIONAL ENGINEER
AUNG M. MAUNG
No. 74031
Exp. 06-30-13
CIVIL
STATE OF CALIFORNIA

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

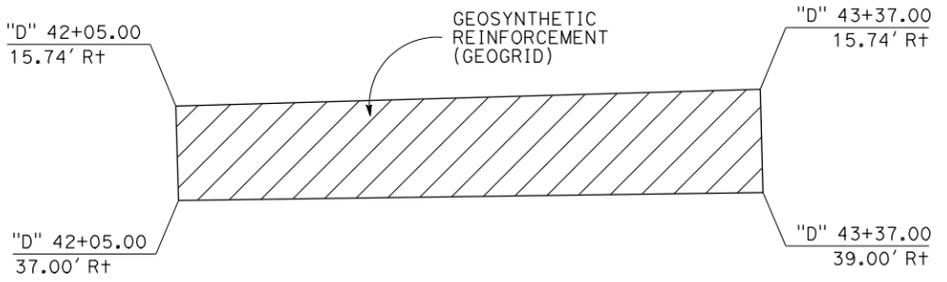
**NOTES:**

1. THIS PLAN IS ONLY ACCURATE FOR STABILIZATION TRENCH SYSTEM CONSTRUCTION RELATED WORK.
2. EMBANKMENT SHOWN ON THIS SHEET IS NOT A SEPARATE PAY ITEM. SEE SUMMARY OF QUANTITIES SHEET Q-1.

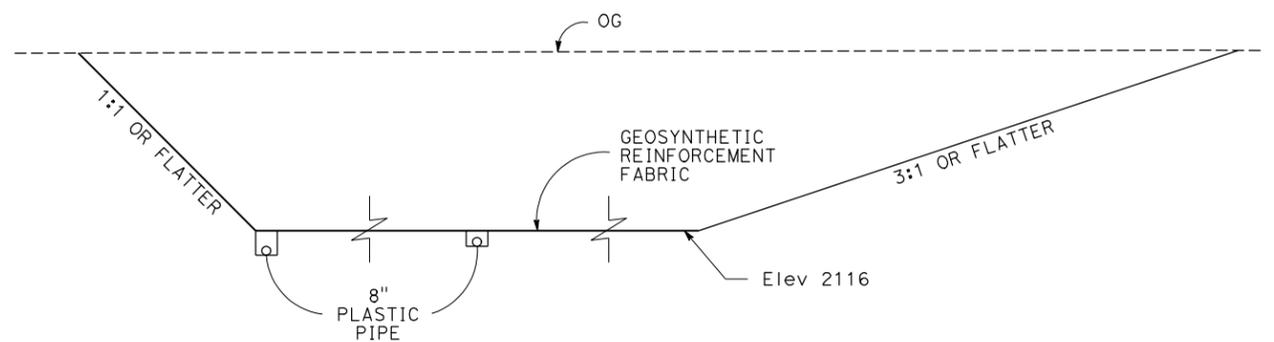
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**03-DESIGN**  
 GARY S. BIRCH  
 FUNCTIONAL SUPERVISOR  
 CHECKED BY  
 AUNG M. MAUNG  
 LAN P. NGUYEN  
 DESIGNED BY  
 REVISED BY  
 DATE REVISED



**SECTION A-A**



**SECTION B-B**



**CONSTRUCTION DETAILS**

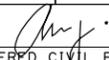
**LOCATION 4 (PM 28.2)  
STABILIZATION TRENCH SYSTEM**

NO SCALE

**C-4**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	21	59

		5-13-11
REGISTERED CIVIL ENGINEER	DATE	
5-31-11		
PLANS APPROVAL DATE		

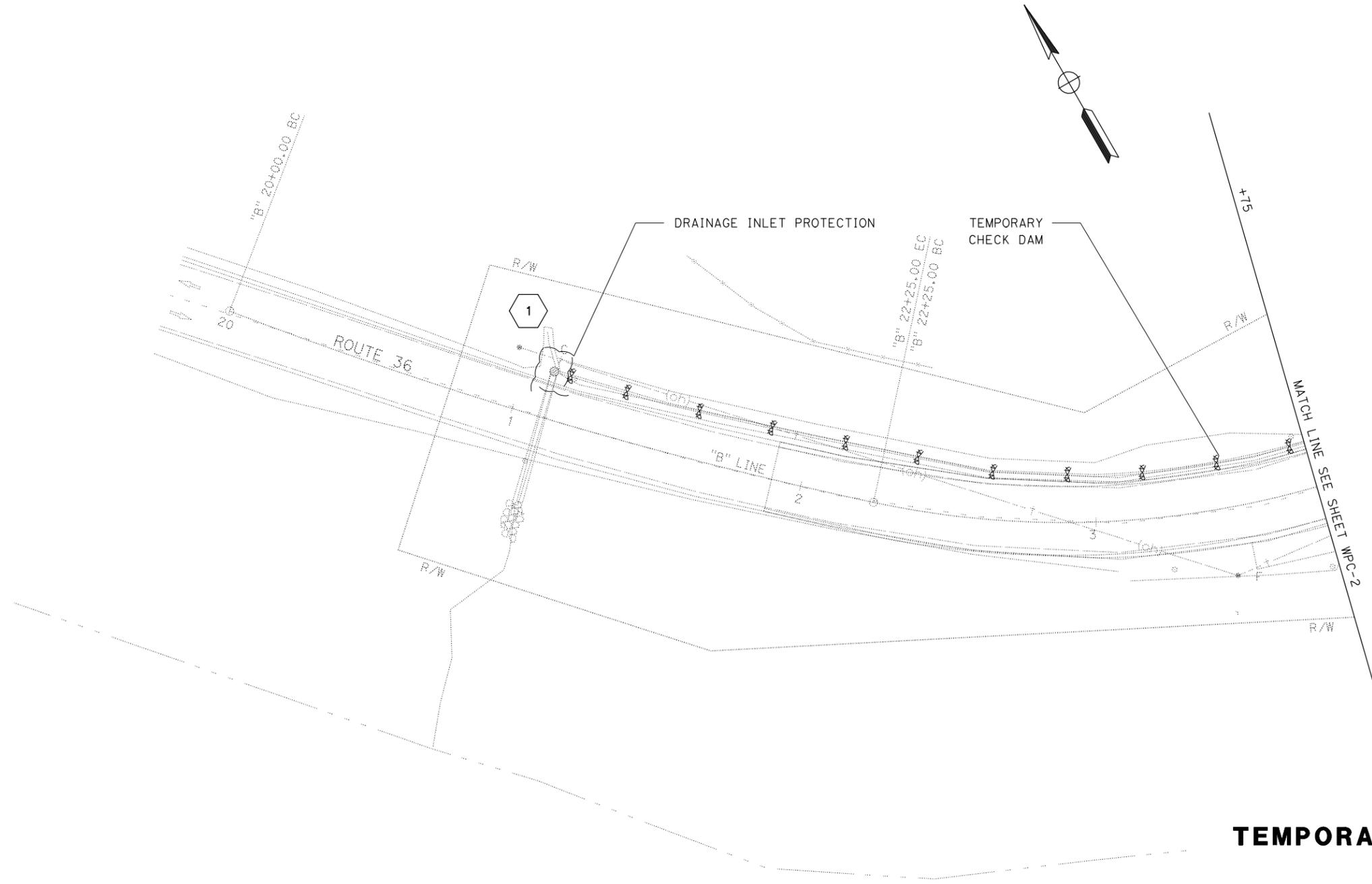
  

REGISTERED PROFESSIONAL ENGINEER <b>AUNG M. MAUNG</b> No. 74031 Exp. 06-30-13 CIVIL STATE OF CALIFORNIA	
--	--

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

**NOTES:**  
 1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
 2. TEMPORARY WATER POLLUTION CONTROL PLAN SHEETS ACCURATE ONLY FOR TEMPORARY WATER POLLUTION CONTROL FEATURES.

- LEGEND:**
-  TEMPORARY SILT FENCE
  -  TEMPORARY FIBER ROLL
  -  TEMPORARY CHECK DAM
  -  DRAINAGE INLET PROTECTION



LOCATION 2  
(PM 23.5)

**TEMPORARY WATER POLLUTION CONTROL PLAN WPC-1**

SCALE: 1"=20'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
**03-DESIGN**  
 FUNCTIONAL SUPERVISOR  
 GARY S. BIRCH  
 CHECKED BY  
 GARY DUGHY  
 AUNG M. MAUNG  
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	22	59

REGISTERED CIVIL ENGINEER	DATE
<i>[Signature]</i>	5-13-11
PLANS APPROVAL DATE	
	5-31-11

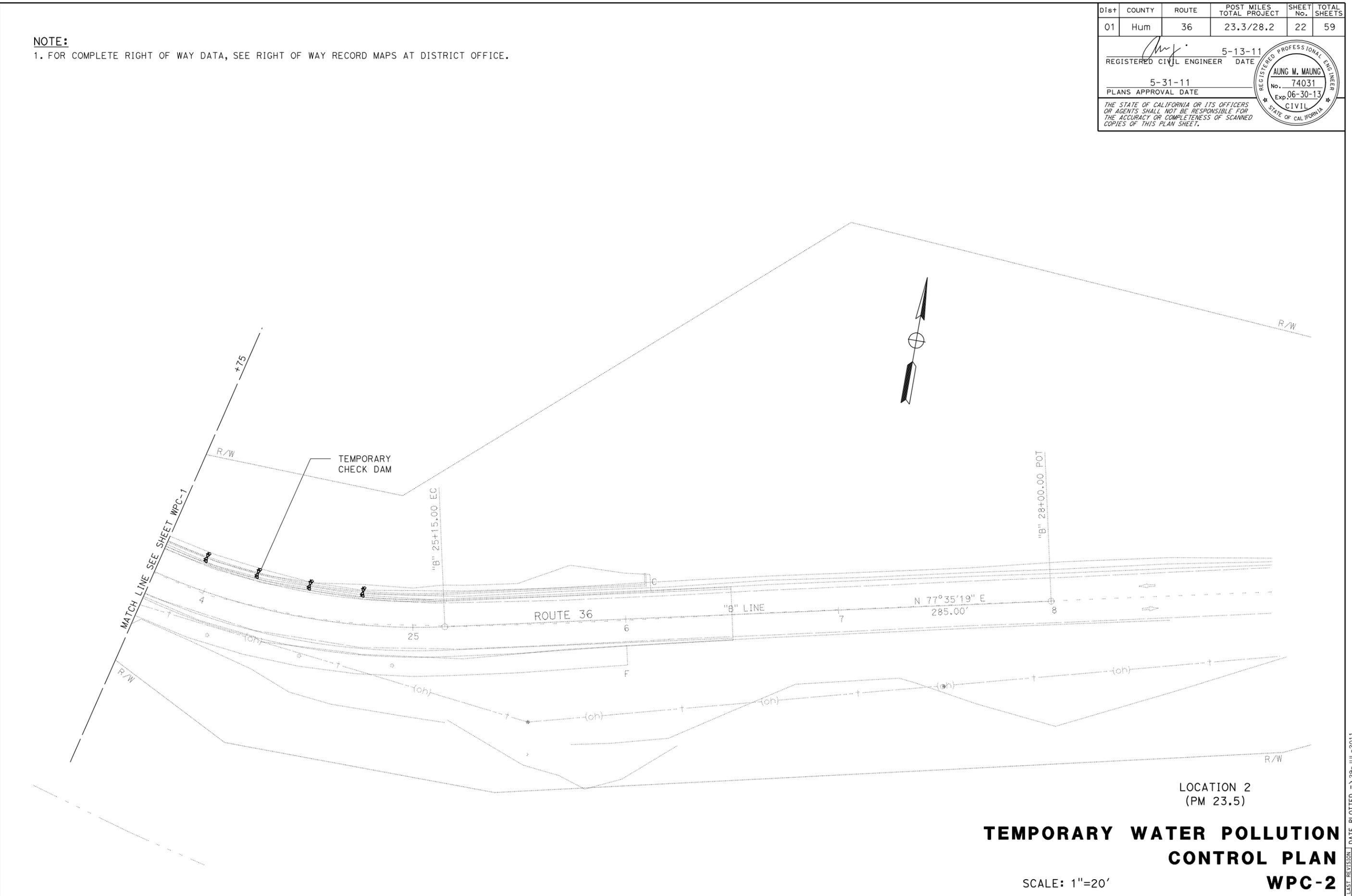
  

REGISTERED PROFESSIONAL ENGINEER
AUNG M. MAUNG
No. 74031
Exp. 06-30-13
CIVIL
STATE OF CALIFORNIA

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

**NOTE:**  
1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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



DATE PLOTTED => 29-JUL-2011  
TIME PLOTTED => 10:02  
LAST REVISION  
05-23-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	23	59

REGISTERED CIVIL ENGINEER	DATE
<i>[Signature]</i>	5-13-11
PLANS APPROVAL DATE	
5-31-11	

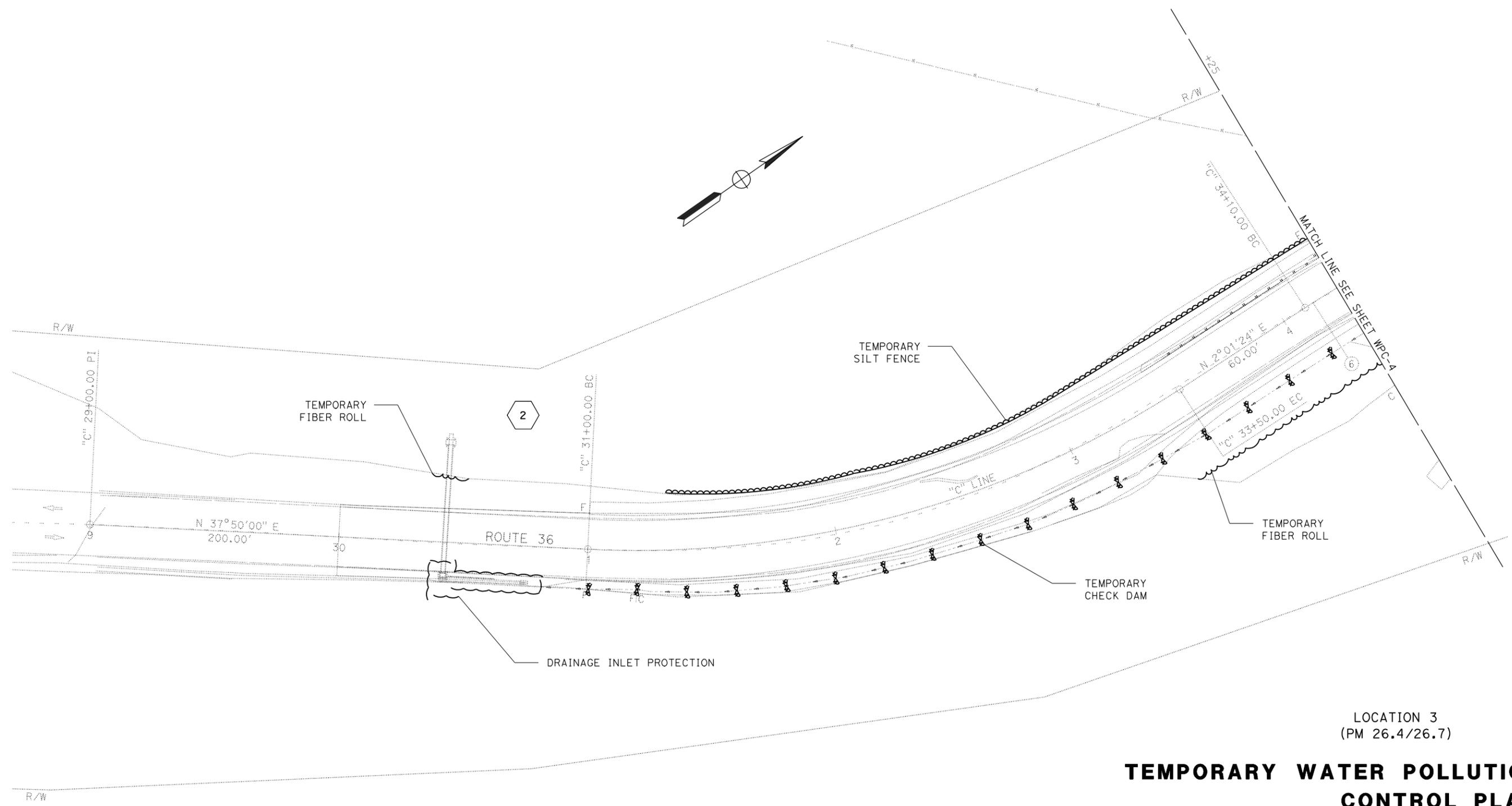
  

REGISTERED PROFESSIONAL ENGINEER
AUNG M. MAUNG
No. 74031
Exp. 06-30-13
CIVIL
STATE OF CALIFORNIA

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

**NOTE:**  
 1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>03-DESIGN</b>	GARY S. BIRCH	GARY DUGHY	
<b>Caltrans</b>		AUNG M. MAUNG	
	CHECKED BY	DESIGNED BY	DATE



LOCATION 3  
 (PM 26.4/26.7)

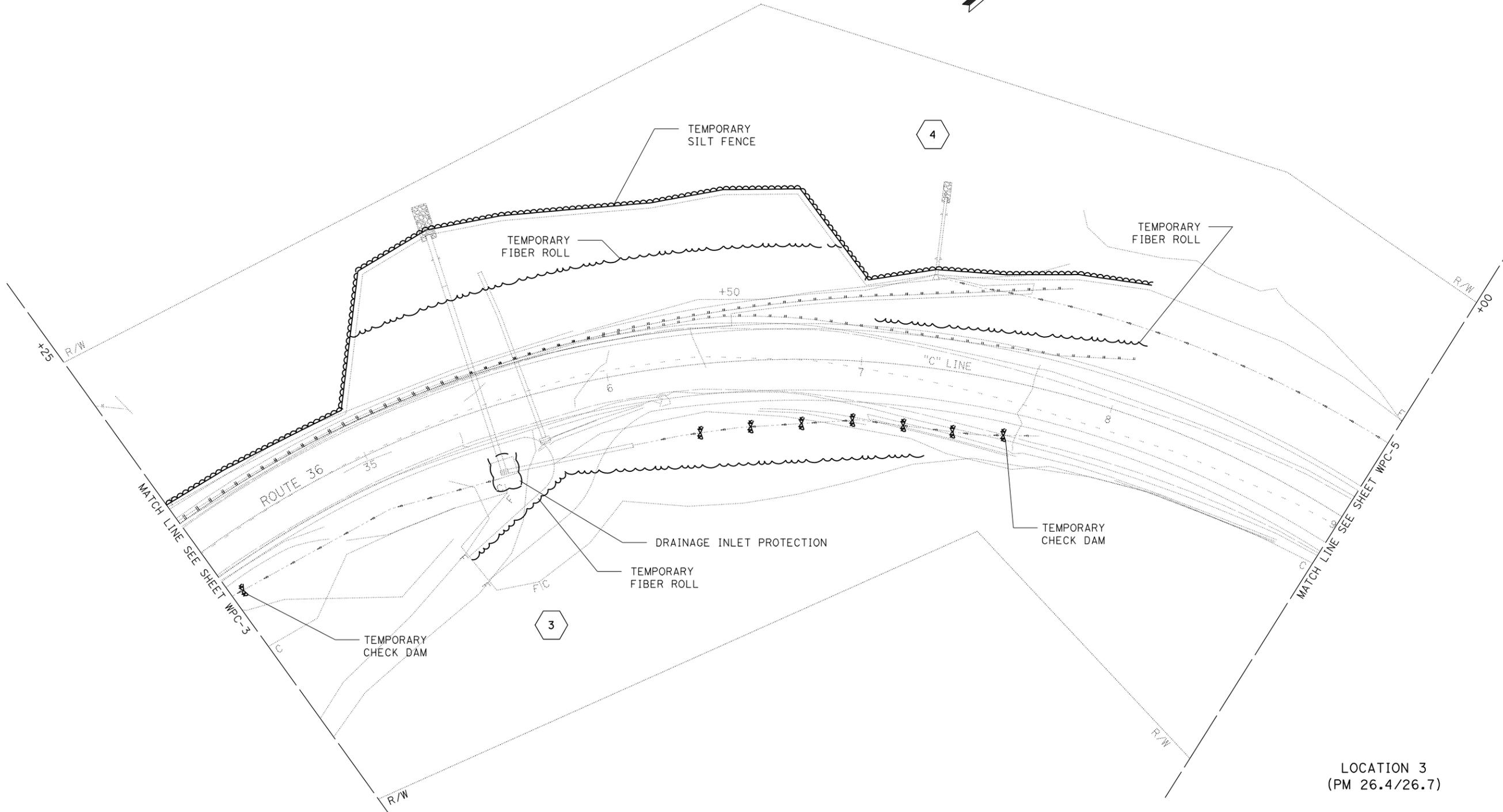
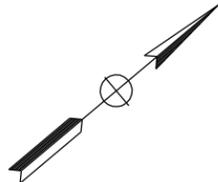
**TEMPORARY WATER POLLUTION CONTROL PLAN**

**WPC-3**

SCALE: 1"=20'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	24	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	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>					

**NOTE:**  
1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



**TEMPORARY WATER POLLUTION CONTROL PLAN WPC-4**

SCALE: 1"=20'

LOCATION 3  
(PM 26.4/26.7)

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

REVISOR  
DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	25	59

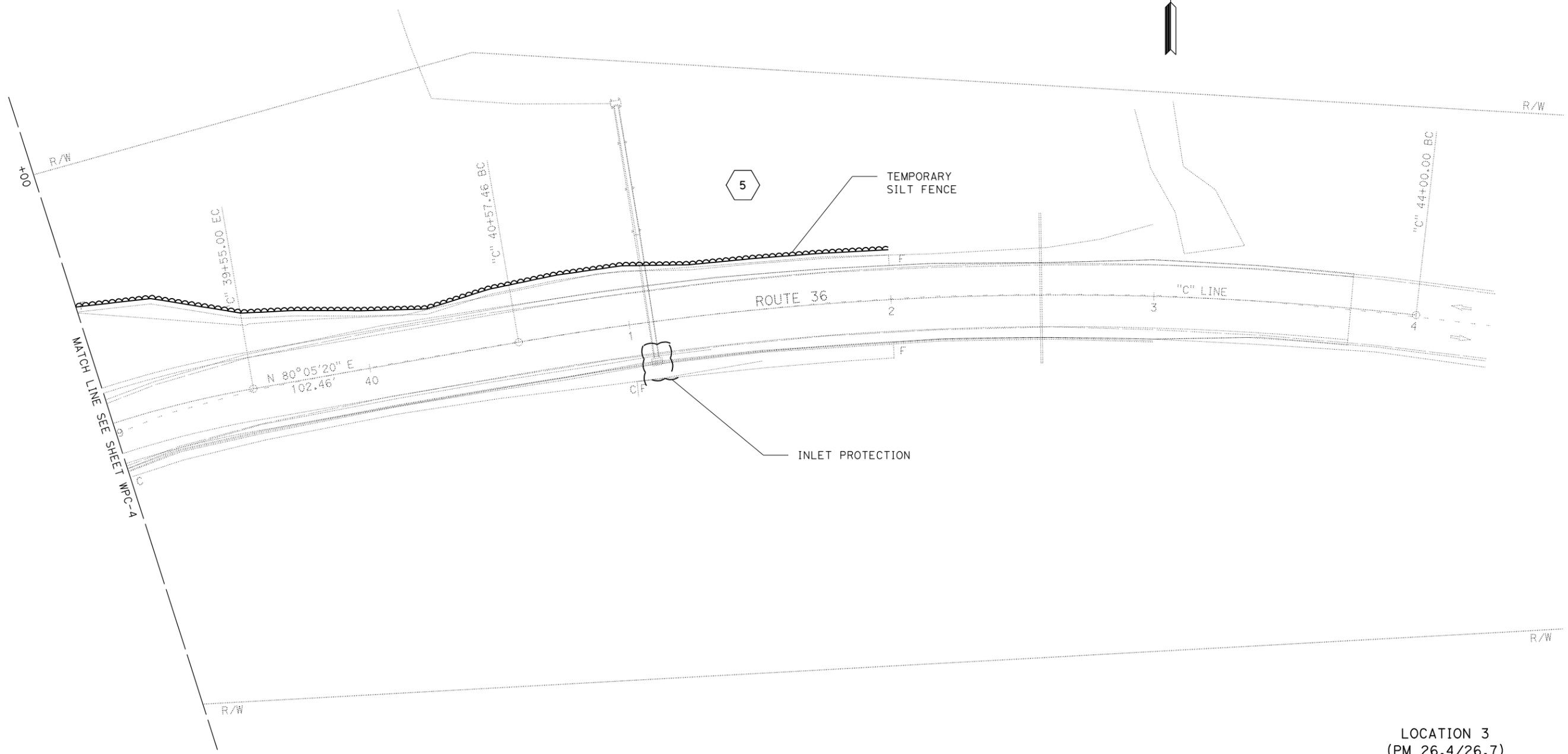
<i>[Signature]</i>	5-13-11
REGISTERED CIVIL ENGINEER	DATE
5-31-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	
AUNG M. MAUNG	
No. 74031	
Exp. 06-30-13	
CIVIL	
STATE OF CALIFORNIA	

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

**NOTE:**  
1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



LOCATION 3  
(PM 26.4/26.7)

**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**WPC-5**

SCALE: 1"=20'

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

FUNCTIONAL SUPERVISOR: GARY S. BIRCH  
DESIGNED BY: GARY DUGHY  
CHECKED BY: AUNG M. MAUNG

REVISOR: GARY DUGHY  
DATE: AUNG M. MAUNG

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	26	59

REGISTERED CIVIL ENGINEER	DATE
<i>Aung M. Maung</i>	5-13-11
PLANS APPROVAL DATE	
	5-31-11

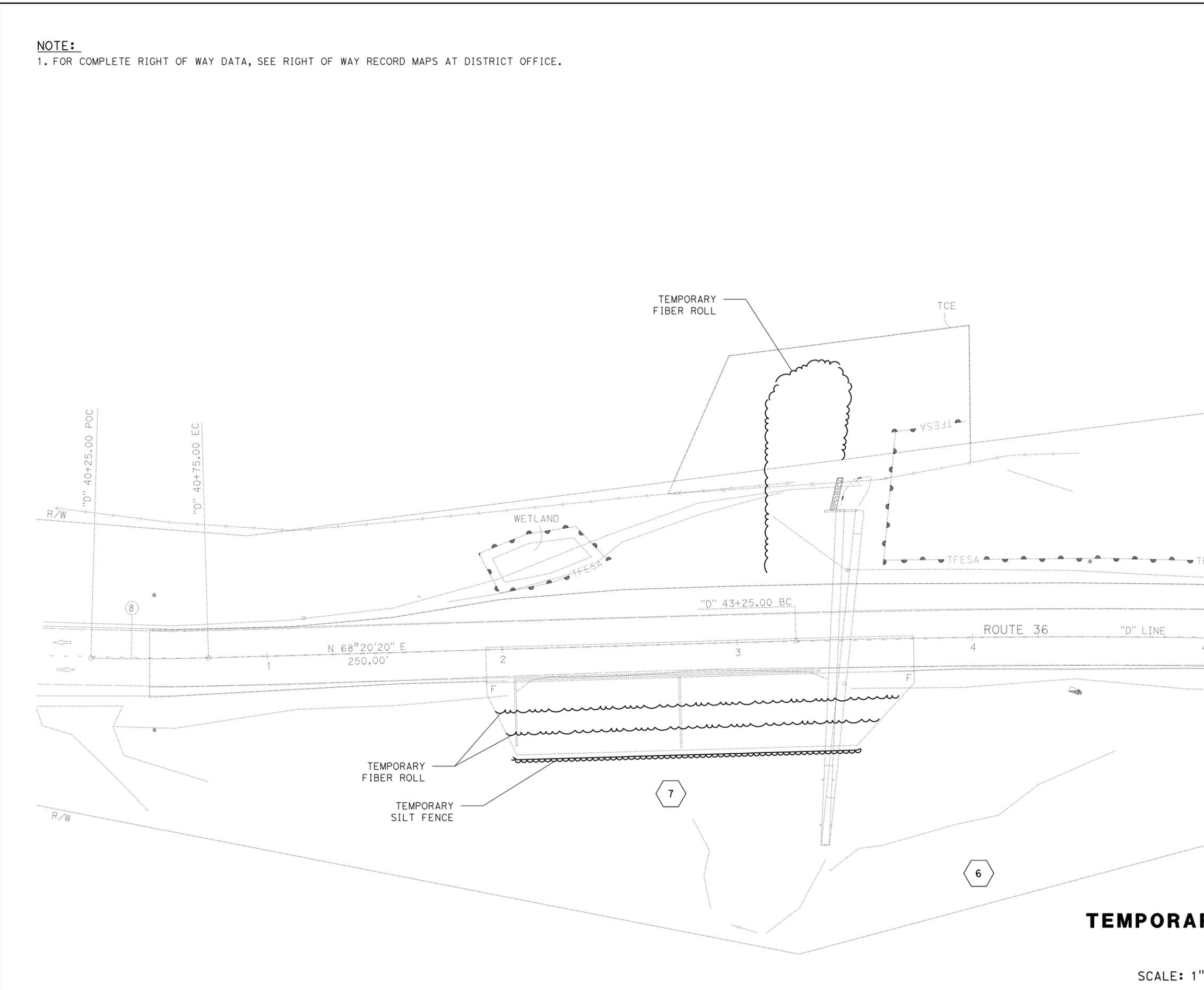
  

REGISTERED PROFESSIONAL ENGINEER
AUNG M. MAUNG
No. 74031
Exp. 06-30-13
CIVIL
STATE OF CALIFORNIA

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

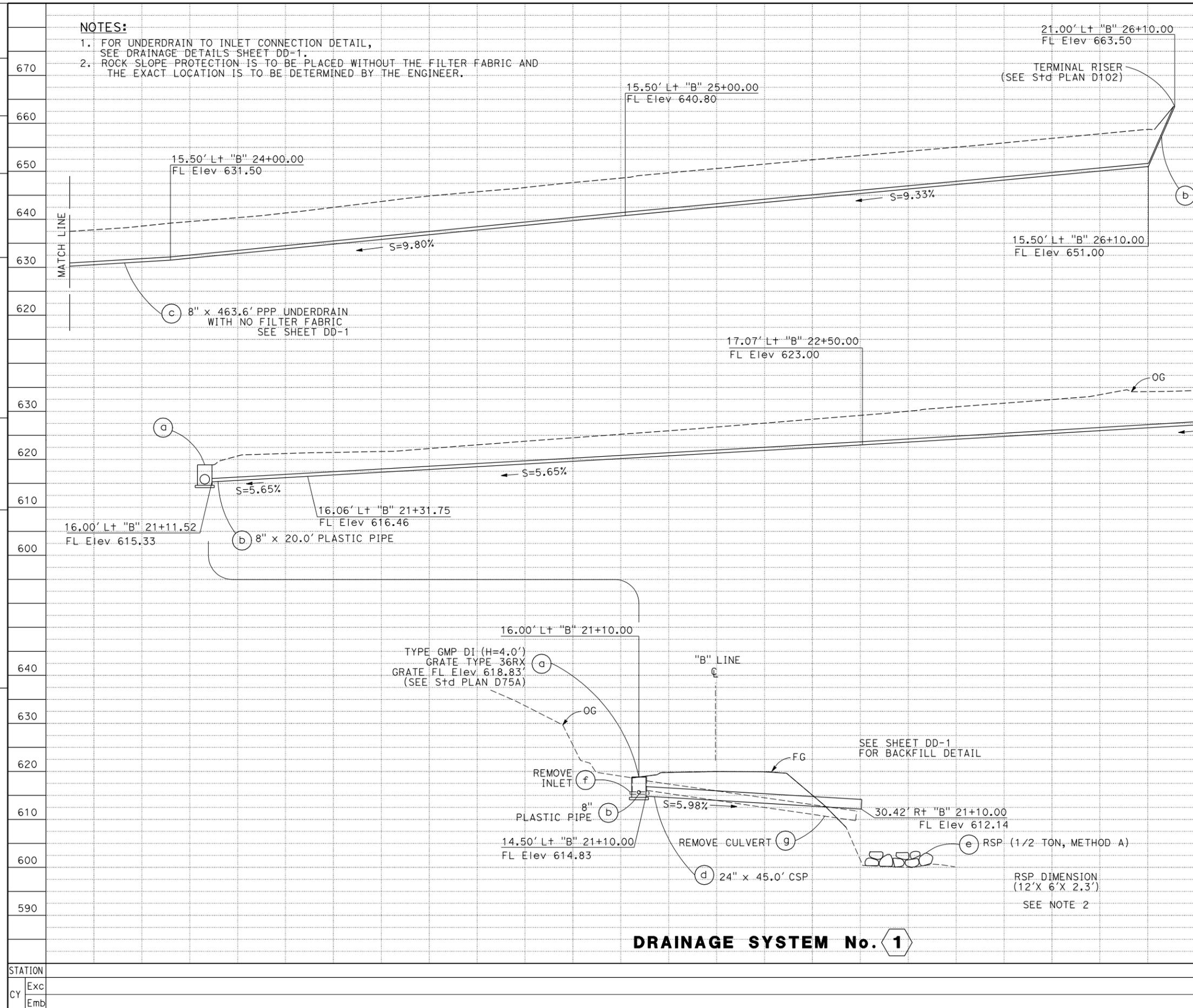
**NOTE:**  
1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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

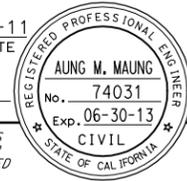


**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**WPC-6**  
 SCALE: 1"=20'  
 LOCATION 4 (PM 28.2)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobran**  
 03-DESIGN



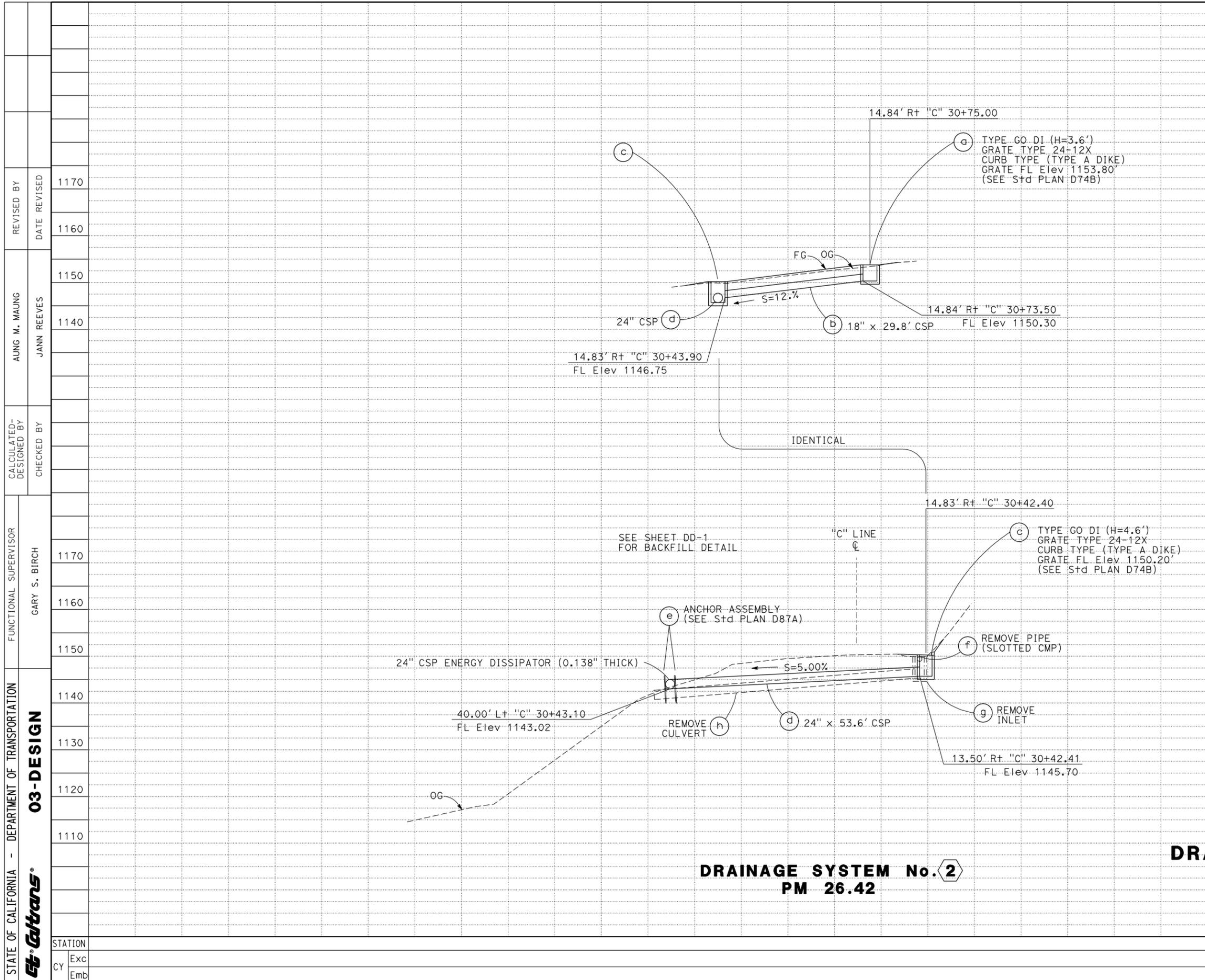
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	27	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



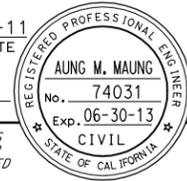
**NOTES:**  
 1. FOR UNDERDRAIN TO INLET CONNECTION DETAIL, SEE DRAINAGE DETAILS SHEET DD-1.  
 2. ROCK SLOPE PROTECTION IS TO BE PLACED WITHOUT THE FILTER FABRIC AND THE EXACT LOCATION IS TO BE DETERMINED BY THE ENGINEER.

**DRAINAGE SYSTEM No. 1**

**DRAINAGE PROFILES**  
 SCALE 1"=10' Horiz  
 1"=10' Vert  
**DP-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	28	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	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.					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>Caltrans</b>	FUNCTIONAL SUPERVISOR GARY S. BIRCH	CALCULATED-DESIGNED BY CHECKED BY	AUNG M. MAUNG JANN REEVES	REVISOR	DATE	REVISION
				1170	1170	
				1160	1160	
				1150	1150	
				1140	1140	
				1170	1170	
				1160	1160	
				1150	1150	
				1140	1140	
				1130	1130	
				1120	1120	
				1110	1110	
STATION						TOTAL
Exc						
Emb						

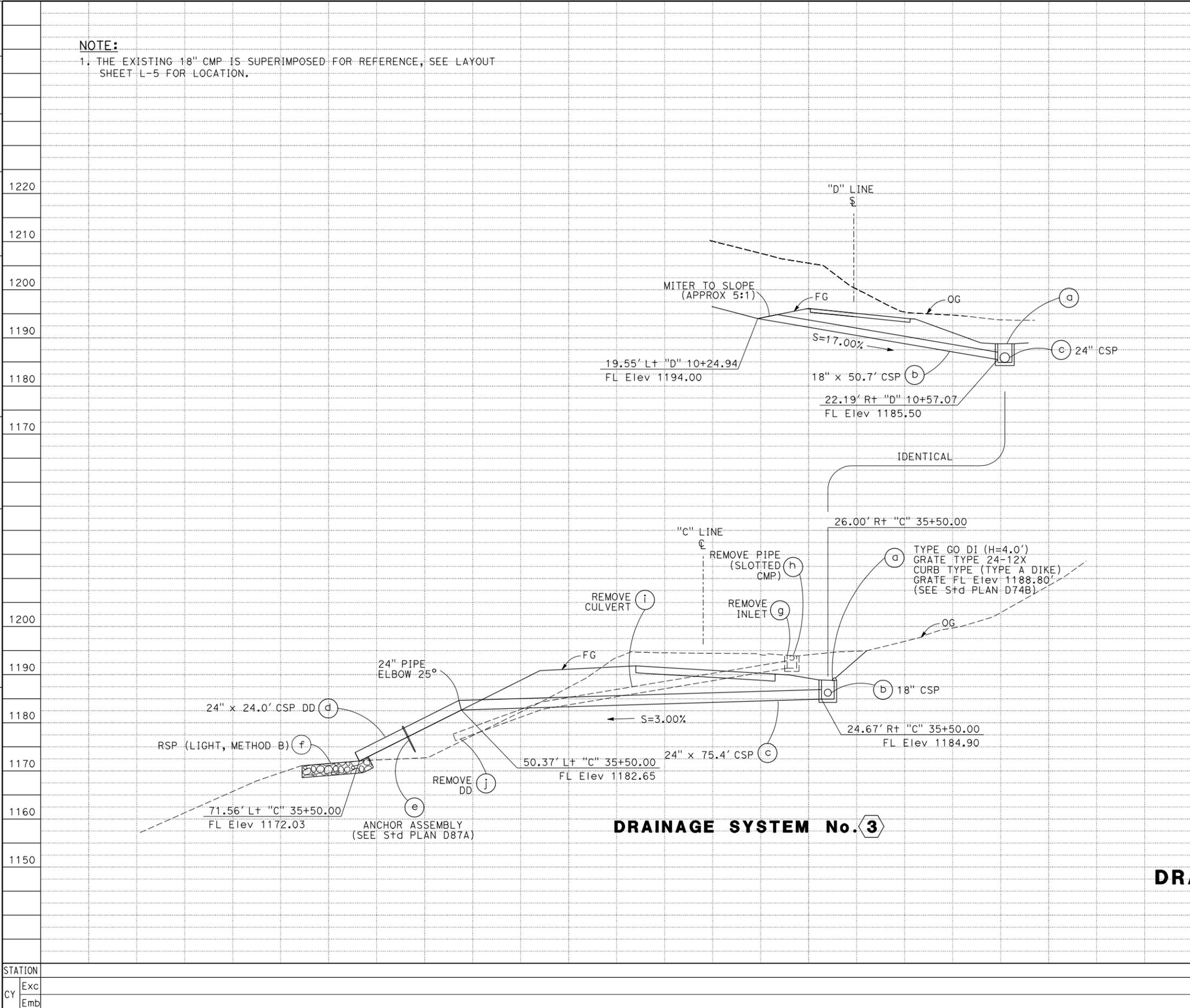
**DRAINAGE SYSTEM No. 2**  
**PM 26.42**

**DRAINAGE PROFILES**

SCALE 1"=10' Horiz  
1"=10' Vert

**DP-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Cattrans**  
**03-DESIGN**



**NOTE:**  
 1. THE EXISTING 18" CMP IS SUPERIMPOSED FOR REFERENCE, SEE LAYOUT SHEET L-5 FOR LOCATION.

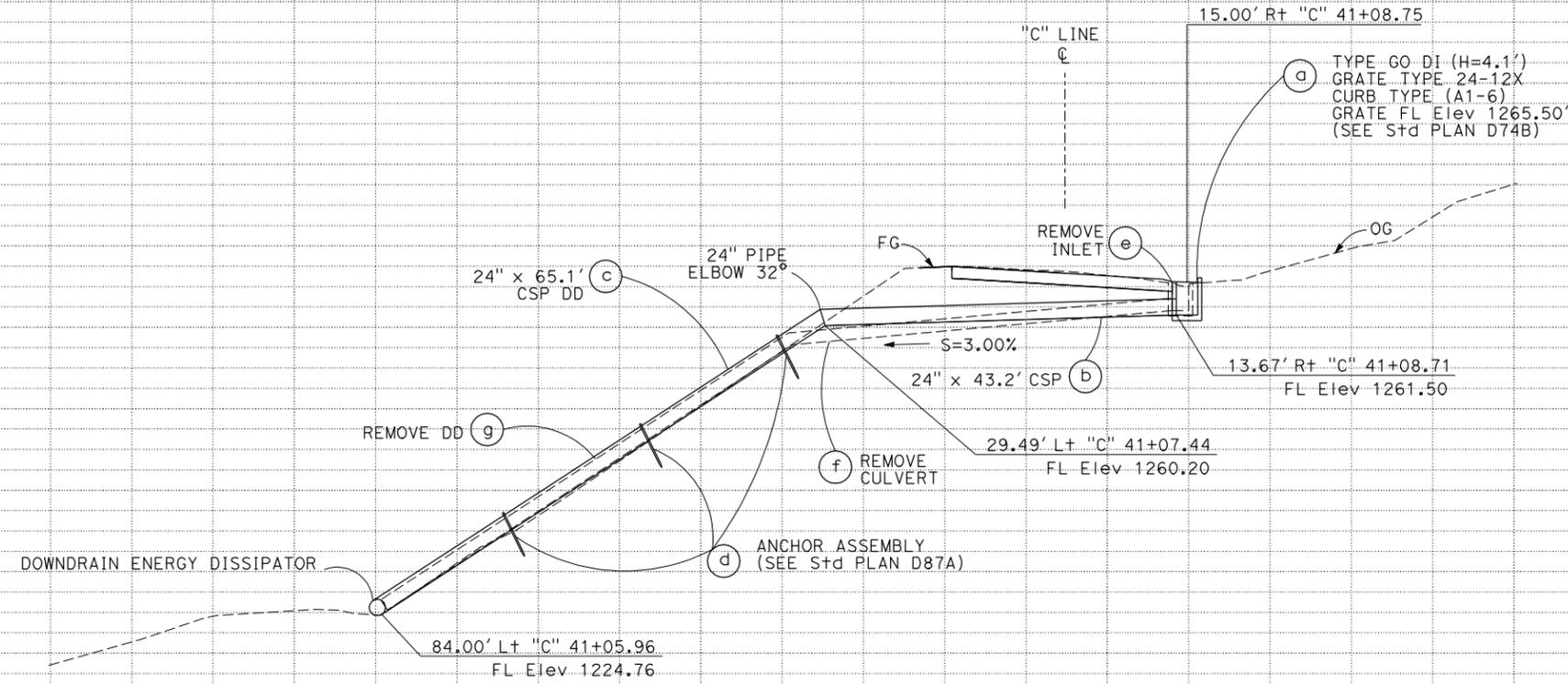
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	29	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	PLANS APPROVAL DATE	

REVISOR	DATE	REVISION
AUNG M. MAUNG	1220	
JANN REEVES	1210	
	1200	
	1190	
	1180	
	1170	
CALCULATED-DESIGNED BY	CHECKED BY	
GARY S. BIRCH		
FUNCTIONAL SUPERVISOR		
	1200	
	1190	
	1180	
	1170	
	1160	
	1150	
STATION		TOTAL
Exc		
Emb		

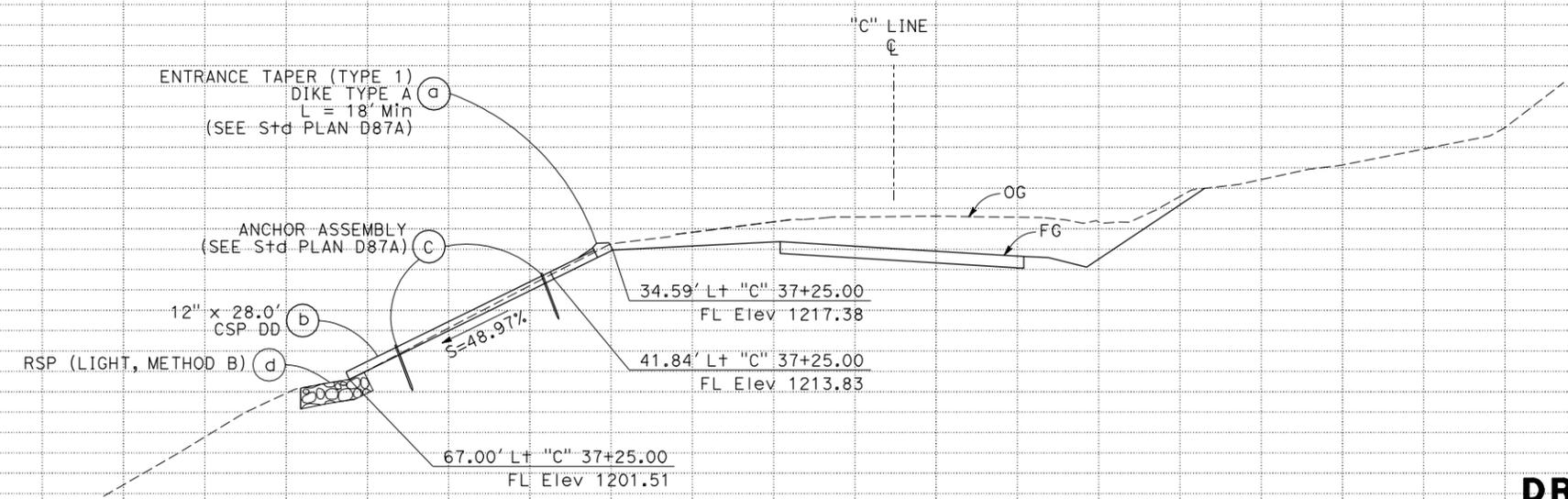
**DRAINAGE SYSTEM No. 3**

**DRAINAGE PROFILES**  
 SCALE 1"=10' Horiz  
 1"=10' Vert  
**DP-3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	30	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	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 <b>AUNG M. MAUNG</b> No. 74031 Exp. 06-30-13 CIVIL STATE OF CALIFORNIA					



**DRAINAGE SYSTEM No. 5**



**DRAINAGE SYSTEM No. 4**

**DRAINAGE PROFILES**

SCALE 1"=10' Horiz  
1"=10' Vert

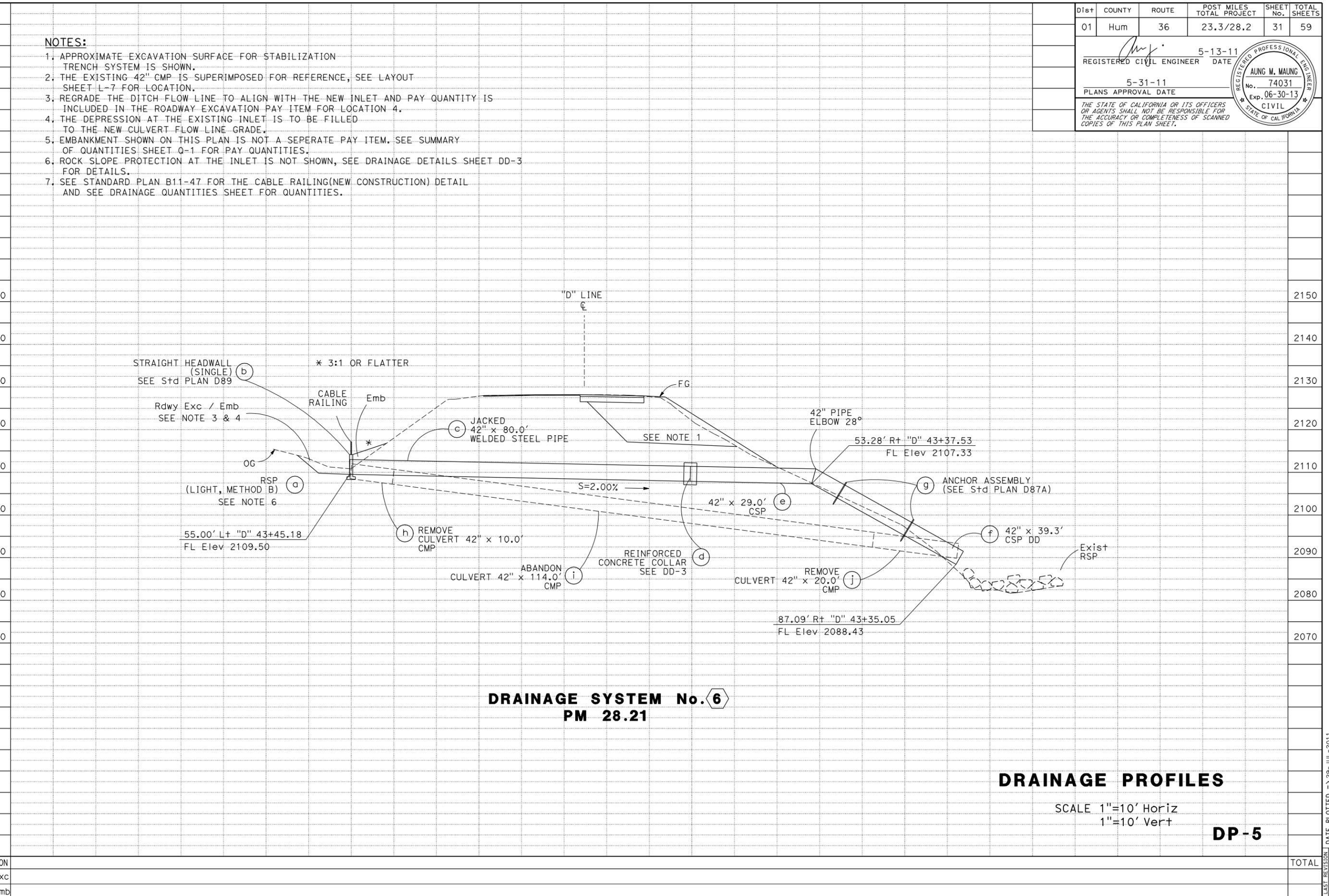
**DP-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE	STATION
GARY S. BIRCH	AUNG M. MAUNG	JANN REEVES	AUNG M. MAUNG	JANN REEVES	TOTAL

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	31	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	PLANS APPROVAL DATE	

- NOTES:**
- APPROXIMATE EXCAVATION SURFACE FOR STABILIZATION TRENCH SYSTEM IS SHOWN.
  - THE EXISTING 42" CMP IS SUPERIMPOSED FOR REFERENCE, SEE LAYOUT SHEET L-7 FOR LOCATION.
  - REGRADE THE DITCH FLOW LINE TO ALIGN WITH THE NEW INLET AND PAY QUANTITY IS INCLUDED IN THE ROADWAY EXCAVATION PAY ITEM FOR LOCATION 4.
  - THE DEPRESSION AT THE EXISTING INLET IS TO BE FILLED TO THE NEW CULVERT FLOW LINE GRADE.
  - EMBANKMENT SHOWN ON THIS PLAN IS NOT A SEPERATE PAY ITEM. SEE SUMMARY OF QUANTITIES SHEET Q-1 FOR PAY QUANTITIES.
  - ROCK SLOPE PROTECTION AT THE INLET IS NOT SHOWN, SEE DRAINAGE DETAILS SHEET DD-3 FOR DETAILS.
  - SEE STANDARD PLAN B11-47 FOR THE CABLE RAILING(NEW CONSTRUCTION) DETAIL AND SEE DRAINAGE QUANTITIES SHEET FOR QUANTITIES.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR
<b>St. Caltrans</b>	GARY S. BIRCH	JANN REEVES	AUNG M. MAUNG	
<b>03-DESIGN</b>				

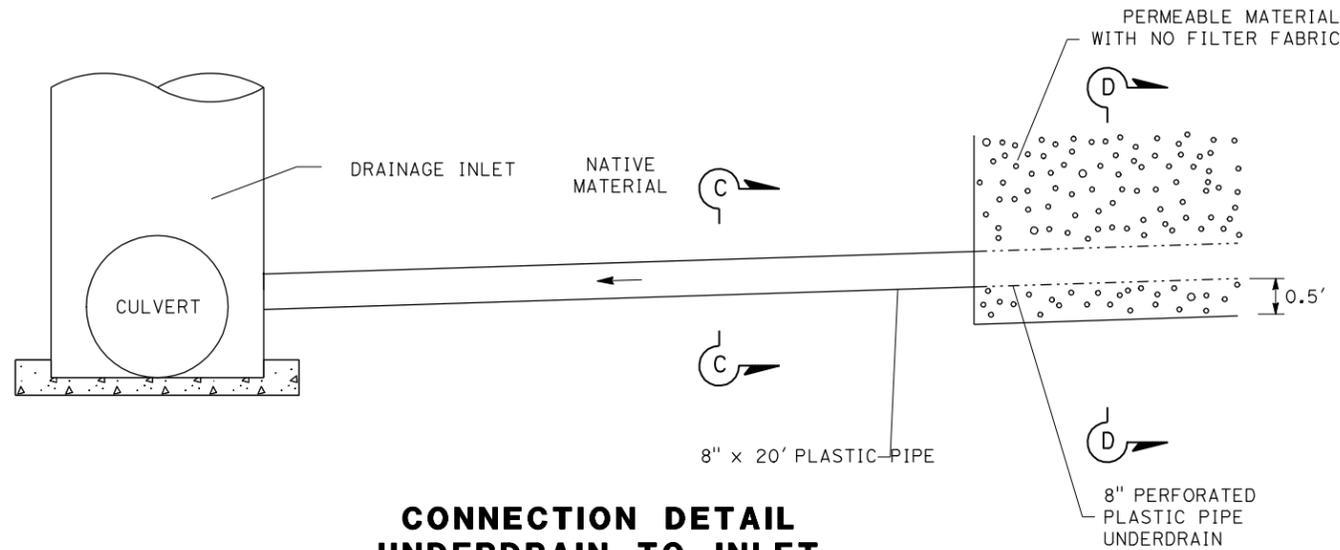


**DRAINAGE PROFILES**  
 SCALE 1"=10' Horiz  
 1"=10' Vert  
**DP-5**

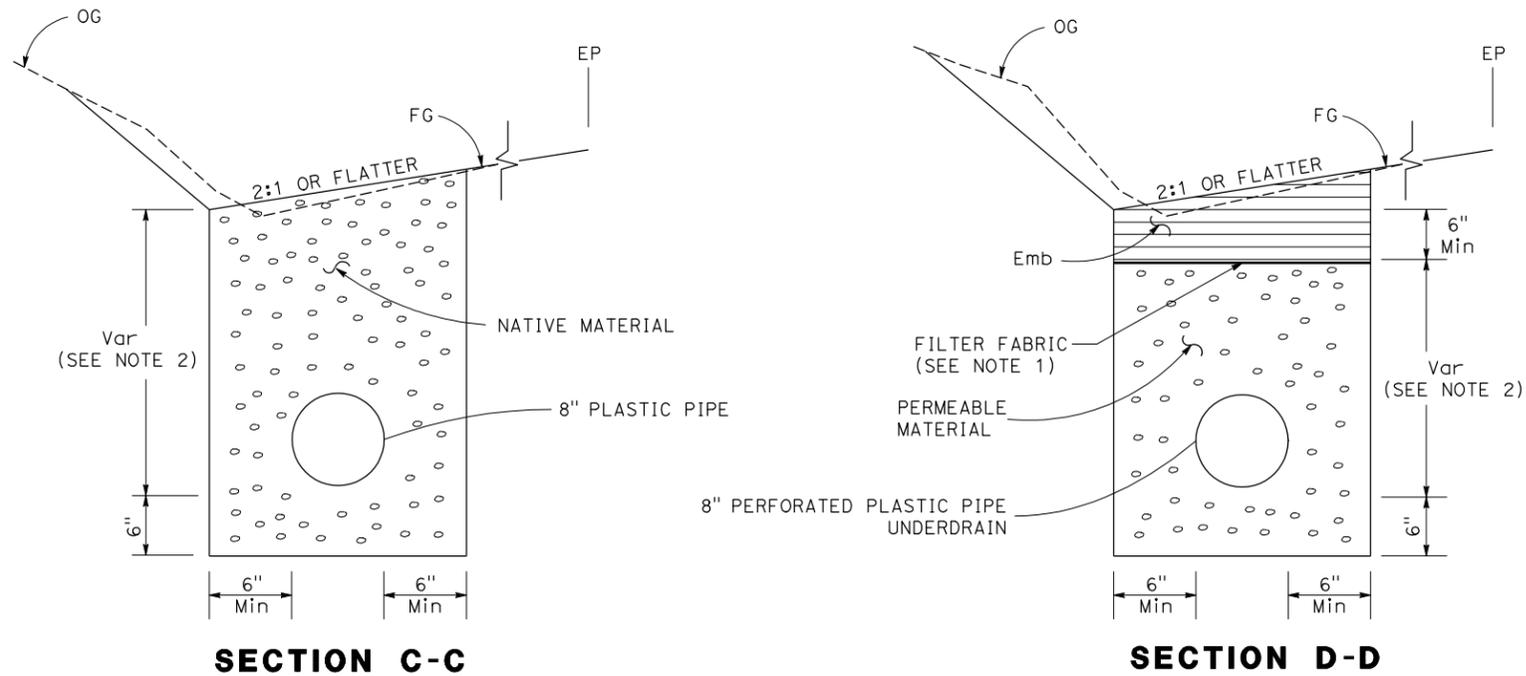
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	32	59
			5-13-11	REGISTERED CIVIL ENGINEER DATE	
			5-31-11	PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**NOTES:**

1. FILTER FABRIC SHALL BE PLACED ONLY ON TOP SIDE
2. SEE DRAINAGE PROFILES SHEET DP-1 FOR DEPTH
3. EMBANKMENT SHOWN ON THIS PLAN IS NOT A SEPERATE PAY ITEM. SEE SUMMARY OF QUANTITIES SHEET Q-1 FOR PAY QUANTITIES.

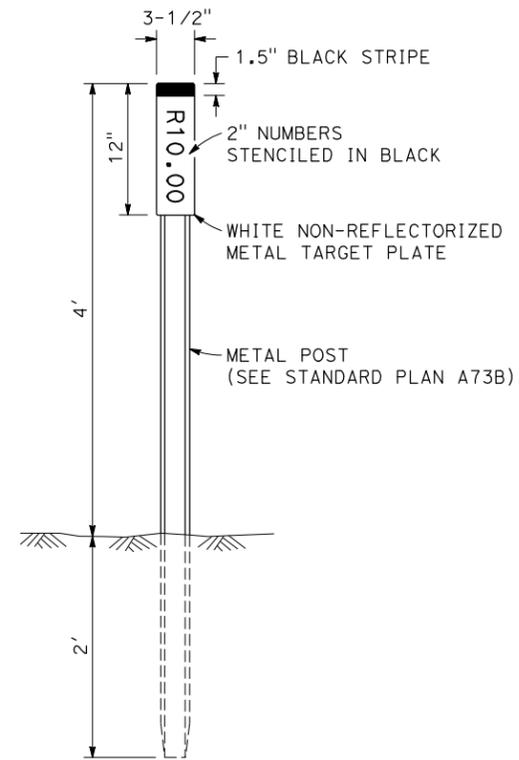


**CONNECTION DETAIL  
UNDERDRAIN TO INLET  
SYSTEM 1**

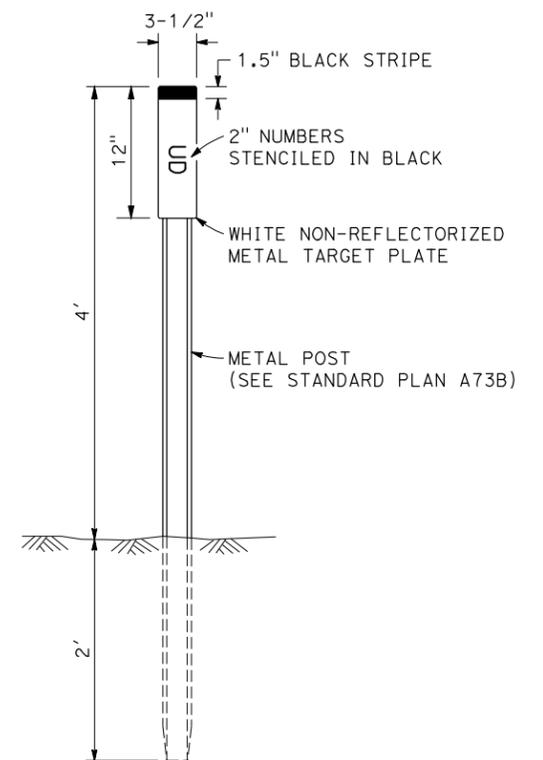


**SECTION C-C**

**SECTION D-D**



**MARKER (CULVERT)**



**UNDERDRAIN MARKER**

**MARKER NOTES:**

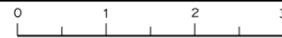
1. NUMBERS AND TEXT AS DESIGNATED ON PLAN SHEET Q-2.
2. CONTRACTOR SHALL FIELD VERIFY POSTMILE WITH ENGINEER'S APPROVAL PRIOR TO ORDERING AND PLACING METAL TARGET PLATES.
3. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

**DRAINAGE DETAILS**

NO SCALE

**DD-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 03-DESIGN  
 FUNCTIONAL SUPERVISOR: GARY S. BIRCH  
 DESIGNED BY: AUNG M. MAUNG  
 CHECKED BY: JANN REEVES  
 REVISIONS: REVISED BY: DATE REVISED:



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobran**  
 03-DESIGN  
 FUNCTIONAL SUPERVISOR  
 GARY S. BIRCH  
 AUNG M. MAUNG  
 JANN REEVES  
 REVISIONS:  
 REVISION NO. | DATE | BY | DESCRIPTION

**NOTE:**

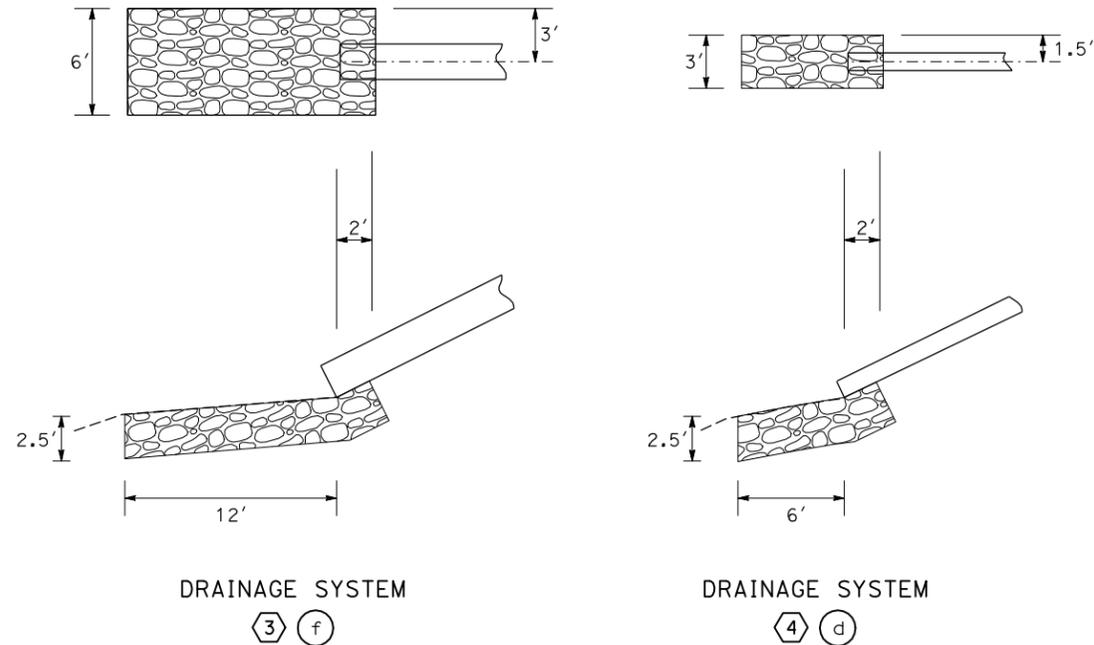
1. ROCK SLOPE PROTECTION IS TO BE PLACED WITHOUT THE FILTER FABRIC AND THE EXACT LOCATION IS TO BE DETERMINED BY THE ENGINEER.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	33	59

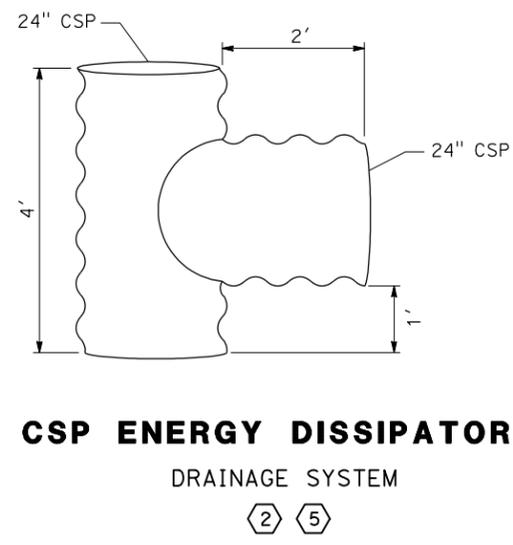
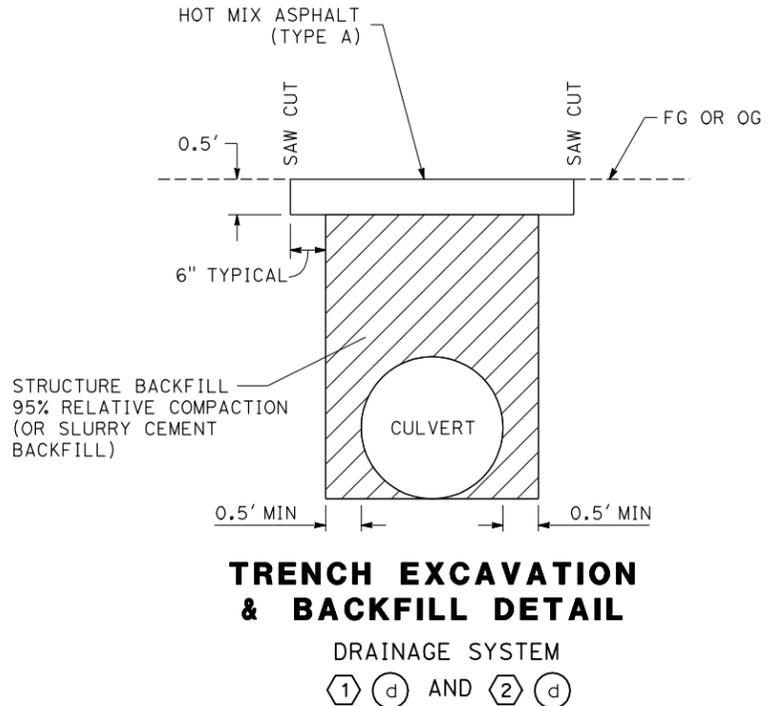
REGISTERED CIVIL ENGINEER  
 AUNG M. MAUNG  
 No. 74031  
 Exp. 06-30-13  
 CIVIL  
 STATE OF CALIFORNIA

5-13-11  
 DATE  
 5-31-11  
 PLANS APPROVAL DATE

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**ROCK SLOPE PROTECTION**



**DRAINAGE DETAILS**  
 NO SCALE  
**DD-2**

DATE PLOTTED => 29-JUL-2011  
 TIME PLOTTED => 10:03

**NOTES:**

1. ROCK SLOPE PROTECTION IS TO BE PLACED WITHOUT THE FILTER FABRIC AND THE EXACT LOCATION IS TO BE DETERMINED BY THE ENGINEER.
2. CROSS SLOPE VARIES.
3. REINFORCING STEEL INCLUDED IN PRICING FOR MINOR CONCRETE MINOR STRUCTURE.

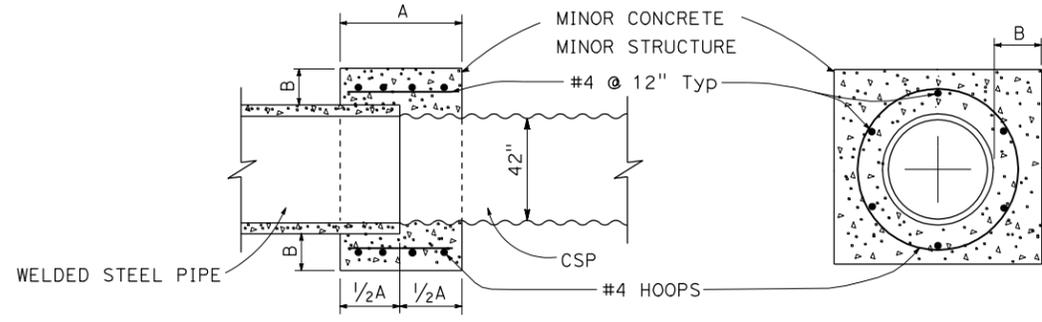
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	34	59

5-13-11  
 REGISTERED CIVIL ENGINEER DATE

5-31-11  
 PLANS APPROVAL DATE

AUNG M. MAUNG  
 No. 74031  
 Exp. 06-30-13  
 CIVIL  
 STATE OF CALIFORNIA

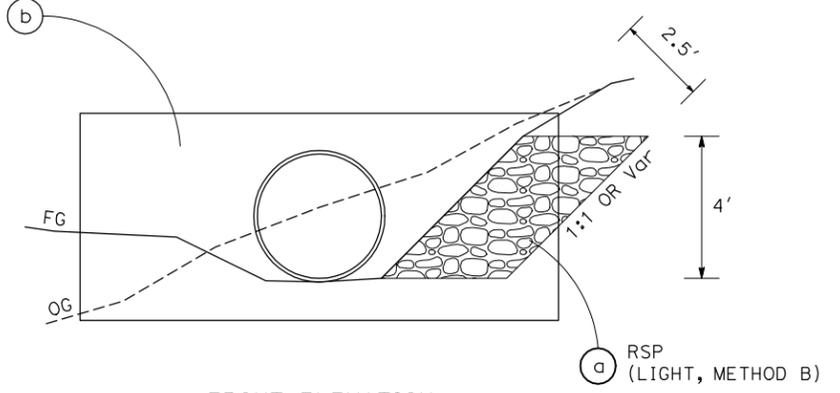
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



A	B	HOOPS
36"	10"	4

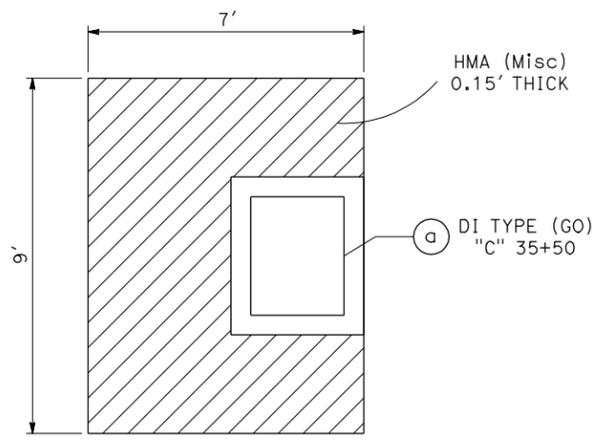
**REINFORCED CONCRETE COLLAR**  
 DRAINAGE SYSTEM (6) (d)

STRAIGHT HEADWALL (SINGLE)  
 SEE Std PLAN D89



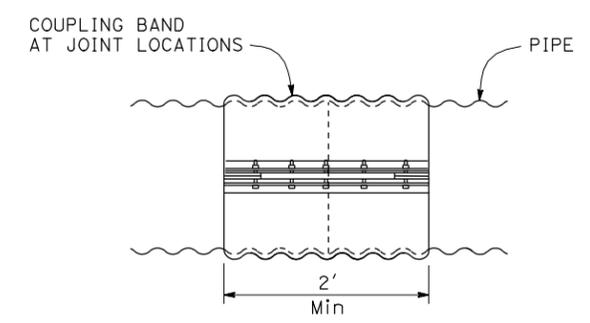
FRONT ELEVATION DRAINAGE SYSTEM  
 (6) (a) (b)  
 RSP (LIGHT, METHOD B)  
 RSP DIMENSION (14' x 2.5' x 4')

**ROCK SLOPE PROTECTION**



DRAINAGE SYSTEM  
 (3)

**PLACE HMA (Misc AREA)**



**CSP JOINT COUPLING BAND**  
 NOTE: FABRICATE IN ACCORDANCE WITH STANDARD PLANS, 2' MINIMUM WIDTH.

**DRAINAGE DETAILS**  
 NO SCALE **DD-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 03-DESIGN  
 FUNCTIONAL SUPERVISOR: GARY S. BIRCH  
 DESIGNED BY: AUNG M. MAUNG  
 CHECKED BY: JANN REEVES  
 REVISIONS: (None listed)





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	37	59

REGISTERED CIVIL ENGINEER DATE 5-13-11  
 5-31-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**AUNG M. MAUNG**  
 No. 74031  
 Exp. 06-30-13  
 CIVIL  
 STATE OF CALIFORNIA

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

**NOTES:**

1. THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.
2. LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. THE EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. USE BLACK LEGEND ON ORANGE (REFLECTIVE BACKGROUND) EXCEPT STOP SIGNS.
4. USE LANE CLOSURE PLAN TA-12 FROM CALIFORNIA MUTCD WITH NOTES SUBSTITUTIONS FOR CLOSURE AT LOCATION 4.

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

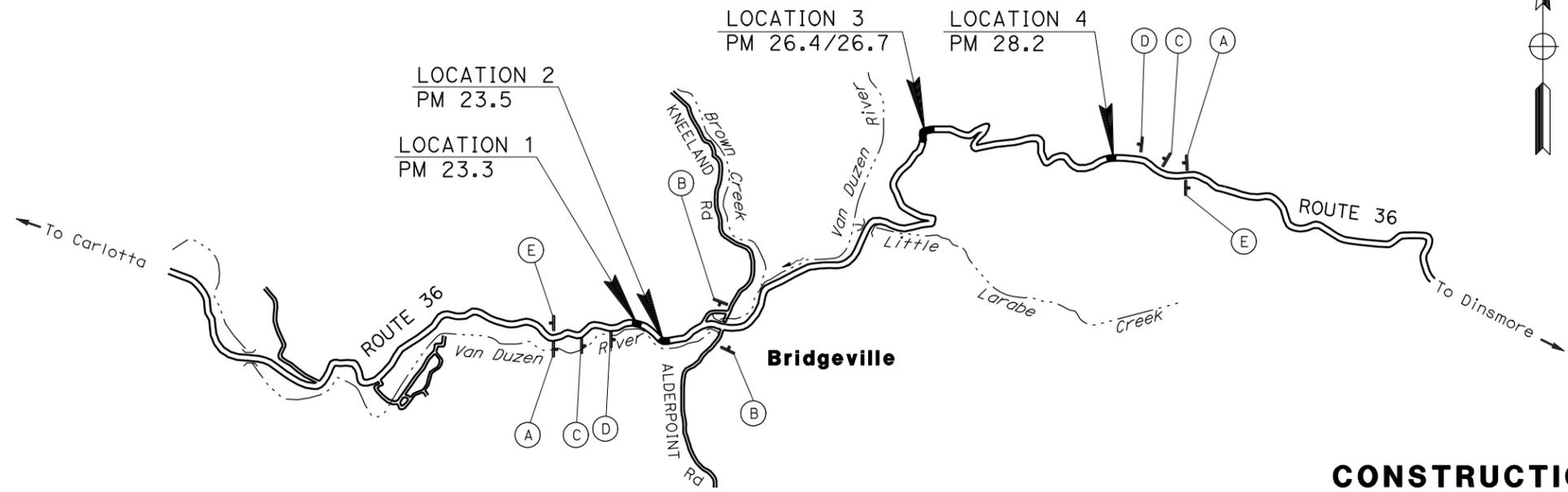
SIGN LETTER	SIGN CODE CA MUTCD	PANEL SIZE	SIGN	NUMBER OF POST AND SIZE	NUMBER OF SIGNS	LOCATION	NOTES
(A)	G20-1	48" x 48"	ROAD WORK AHEAD NEXT 5.5 MILES	1-4"x6"	2	EB: PM 23.0 WB: PM 28.5	INCLUDE FLASHING BEACON AT NEAREST DURING LANE CLOSURE AT LOCATION 4
(B)	W20-1	48" x 48"	ROAD WORK AHEAD	1-4"x6"	2	PACIFIC LAMBERT COMPANY Rd ALDERPOINT Rd	-
(C)	C40(CA)	48" x 48"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	1-4"x6"	2	EB: PM 23.1 WB: PM 28.4	-
(D)	W11-1	30" x 30"	BICYCLE (SYMBOL) SIGN	1-4"x6"	2	EB: PM 23.2 WB: PM 28.3	-
	W16-1	24" x 30"	SHARE THE ROAD		2		
(E)	G20-2	48" x 24"	END ROAD WORK	1-4"x4"	2	EB: PM 28.5 WB: PM 23.0	-

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS FOR TEMPORARY TRAFFIC CONTROL (LOCATION 4)**

SIGN CODE CA MUTCD	PANEL SIZE	SIGN	NUMBER OF POST AND SIZE	NUMBER OF SIGNS	NOTES
W20-1	48" x 48"	ROAD WORK AHEAD	1-4"x6"	1	INCLUDE FLASHING BEACON
W20-4	48" x 48"	ONE LANE ROAD AHEAD	1-4"x6"	2	INCLUDE FLASHING BEACON
W3-1	48" x 48"	STOP AHEAD	1-4"x6"	2	SUBSTITUTE FOR W3-3 IN LANE CLOSURE PLAN CAMUTCD TA-12
R1-1	30" x 30"	STOP	1-4"x6"	2	SUBSTITUTE FOR R10-6 IN LANE CLOSURE PLAN CAMUTCD TA-12
W1-4	48" x 48"	REVERSE CURVE(SYMBOL) SIGN	1-4"x6"	1	-

**LEGEND**

↑ - SIGN-SINGLE POST



**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobran**  
**03-DESIGN**  
 FUNCTIONAL SUPERVISOR GARY S. BIRCH  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 AUNG M. MAUNG  
 LAN P. NGUYEN  
 REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	38	59

REGISTERED CIVIL ENGINEER	DATE
<i>Aung M. Maung</i>	5-13-11
PLANS APPROVAL DATE	
5-31-11	

REGISTERED PROFESSIONAL ENGINEER
AUNG M. MAUNG
No. 74031
Exp. 06-30-13
CIVIL
STATE OF CALIFORNIA

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

**NOTES:**

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.
2. THE INTENT OF THE STAGE CONSTRUCTION IS TO FACILITATE CONSTRUCTION OF THE NEW ROUTE 36 ROADBED AT THE DESIGN ELEVATION GRADE BY FLOPPING THE TRAFFIC UNDER ONE-WAY TRAFFIC CONTROL.
3. TRAFFIC WILL BE PLACED ON THE UNPAVED SURFACE DURING CONSTRUCTION.
4. MAXIMUM EXCAVATION DEPTH SHALL NOT BE MORE THAN TWO FEET.
5. SEE STANDARD PLAN T-13 FOR TRAFFIC CONTROL AND TRAFFIC HANDLING DETAILS.
6. STOPPING LOCATIONS TO BE DETERMINED BY THE ENGINEER.
7. A MINIMUM WIDTH OF 14 FT SHALL BE OPEN FOR USE BY PUBLIC TRAFFIC.
8. TRAFFIC CONES AND/OR TUBULAR MARKERS SHALL BE USED TO DELINEATE THE TRAVELED WAY DURING CONSTRUCTION.
9. STATIONARY MOUNTED CONSTRUCTION AREA SIGNS DURING STAGING WILL BE PAID UNDER CONSTRUCTION AREA SIGNS BID ITEM.
10. THE EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
11. USE BLACK LEGEND ON ORANGE (REFLECTIVE BACKGROUND).

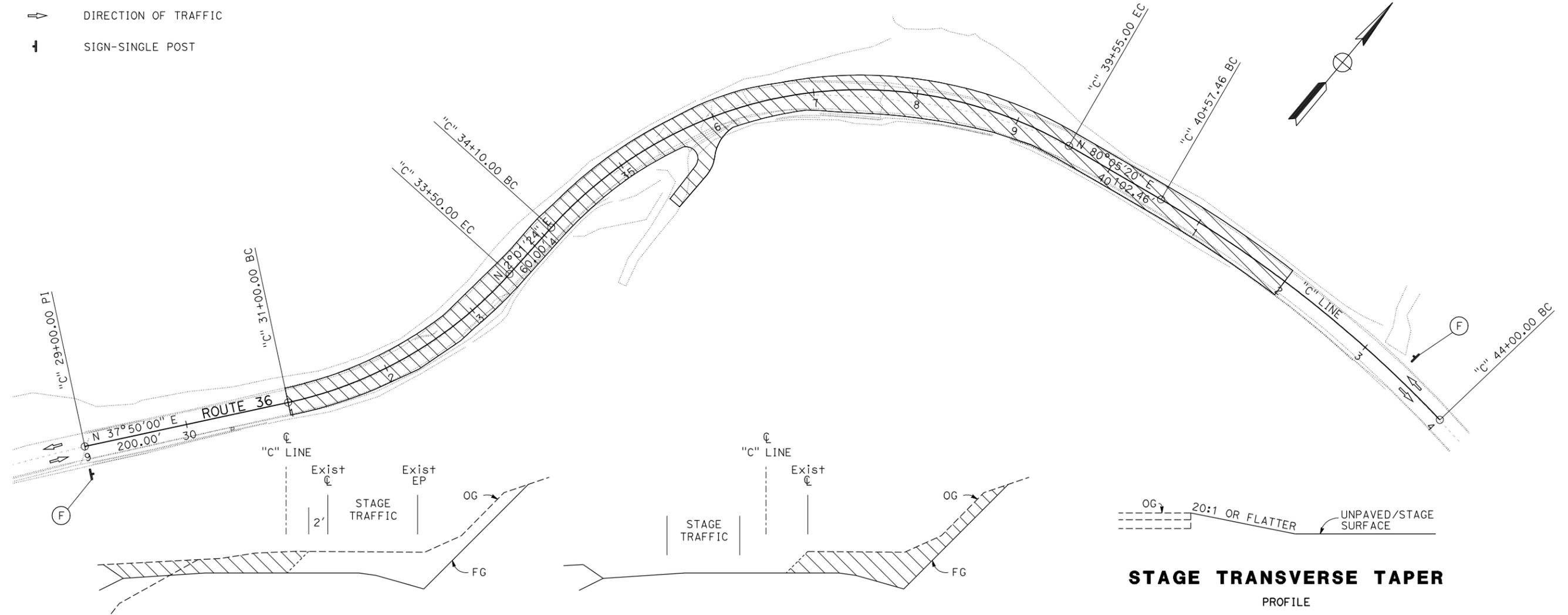
**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS DURING STAGING**

SIGN LETTER	SIGN CODE CA MUTCD	PANEL SIZE	SIGN	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
ⓕ	W8-7	30" x 30"	LOOSE GRAVEL	1-4"x6"	2
	W8-8	30" x 30"	ROUGH ROAD		2

SEE NOTES 9 THROUGH 11.

**LEGEND:**

-  WORK AREA
-  DIRECTION OF TRAFFIC
-  SIGN-SINGLE POST



**TRAFFIC ON RIGHT SIDE TYPICAL SECTION**  
24 HOUR ONE WAY TRAFFIC CONTROL

**TRAFFIC ON LEFT SIDE TYPICAL SECTION**  
24 HOUR ONE WAY TRAFFIC CONTROL

**STAGE TRANSVERSE TAPER PROFILE**

**LOCATION 3 (PM 26.4/26.7)**  
**STAGE CONSTRUCTION**  
SCALE: 1"=50' **SC-1**

\* TRAFFIC HAS TO BE FLOPPED MORE THAN TWICE TO ACCOMMODATE EXCAVATION OR ELSE DIRECTED BY THE ENGINEER.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans**  
 03-DESIGN  
 FUNCTIONAL SUPERVISOR: GARY S. BIRCH  
 CHECKED BY: LAN P. NGUYEN  
 DESIGNED BY: AUNG M. MAUNG  
 REVISED BY: DATE REVISED:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	39	59

REGISTERED CIVIL ENGINEER DATE 5-13-11  
 5-31-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 AUNG M. MAUNG  
 No. 74031  
 Exp. 06-30-13  
 CIVIL  
 STATE OF CALIFORNIA

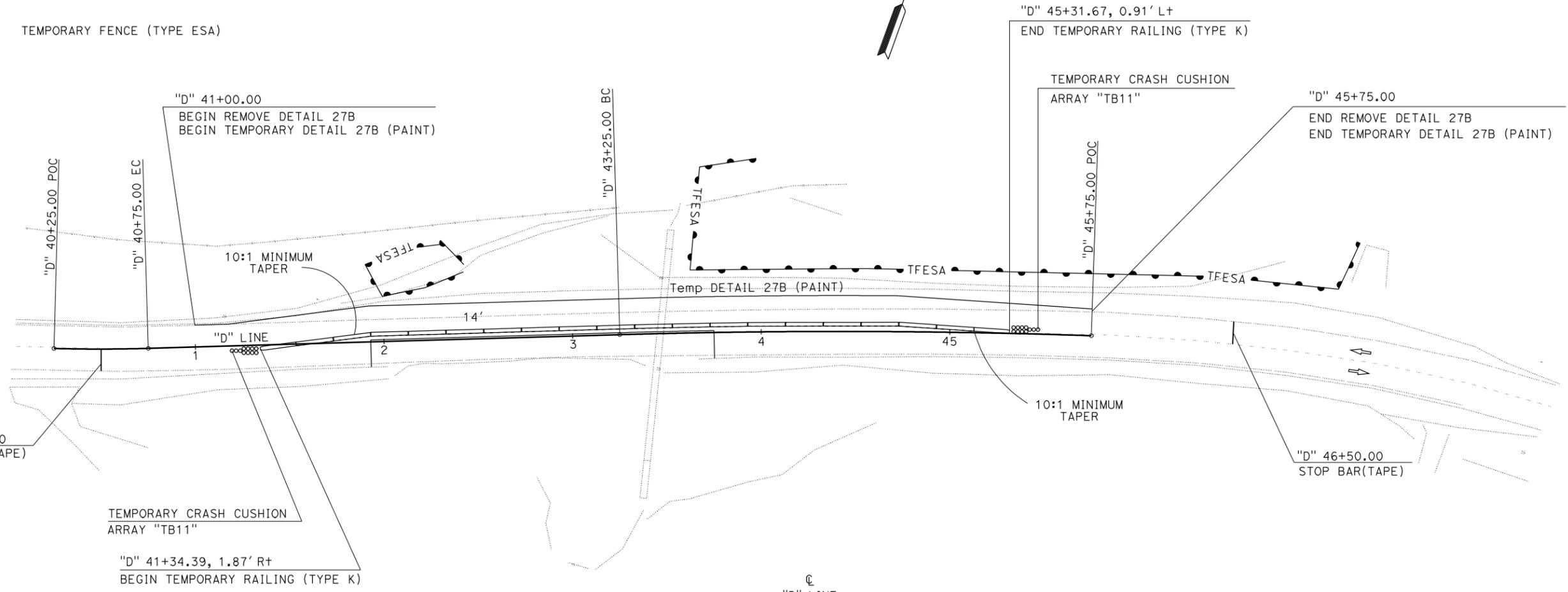
THE STATE OF CALIFORNIA OR ITS OFFICERS  
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 COPIES OF THIS PLAN SHEET.

**NOTES:**

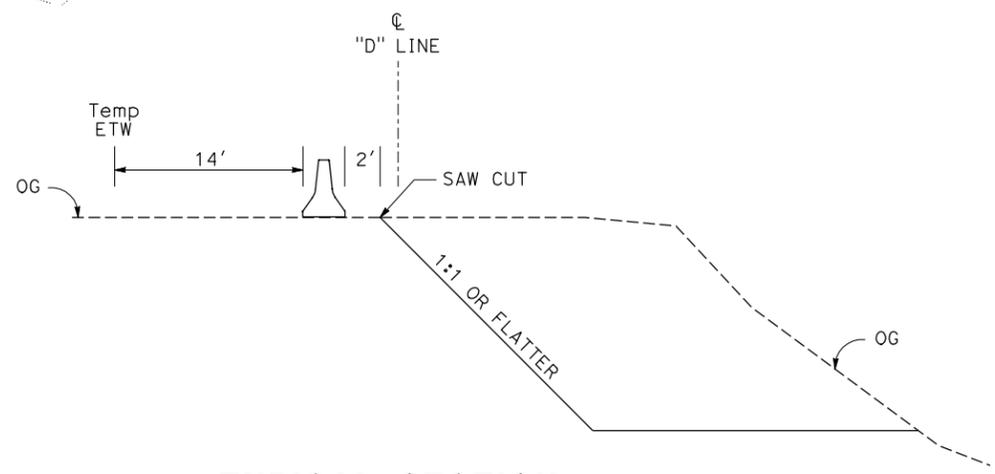
1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.
2. FOR ONE WAY TRAFFIC CONTROL WITH STOP SIGNS, USE CA MUTCD (1A-12) WITH NOTES SUBSTITUTIONS FROM THE TABLE SHOWN ON CS-1.
3. STOP BAR LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE. THE EXACT LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.
4. EXACT LOCATION OF TEMPORARY FENCE (TYPE ESA) TO BE DETERMINED BY THE ENGINEER.

**LEGEND:**

TFESA TEMPORARY FENCE (TYPE ESA)



SAW CUT AC PAVEMENT LOCATION	
STATION	"D" LINE OFFSET
41+93.00	0.00' TO 1.00' Lt
41+93.00 TO 43+75.00	1.00 Lt
43+75.00	1.00 Lt TO 0.00'



**TYPICAL SECTION**  
24 HOUR ONE WAY TRAFFIC CONTROL

**LOCATION 4**  
**(PM 28.2)**  
**STAGE CONSTRUCTION**  
NO SCALE **SC-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 03-DESIGN  
 GARY S. BIRCH  
 FUNCTIONAL SUPERVISOR  
 CHECKED BY  
 AUNG M. MAUNG  
 LAN P. NGUYEN  
 DESIGNED BY  
 REVISED BY  
 DATE  
 REVISIONS

DATE PLOTTED => 29-JUL-2011  
 TIME PLOTTED => 10:03  
 LAST REVISION  
 05-23-11

**NOTES:**  
 1. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.  
 2. EXISTING ASPHALT CONCRETE DIKE REMOVAL FROM "C" STA 35+65 TO STA 42+00 (RT) IS PAID FOR AS ROADWAY EXCAVATION.

**ROADWAY**

LOCATION	REMOVE ASPHALT CONCRETE DIKE	PLACE HOT MIX ASPHALT DIKE (TYPE A)	PLACE HOT MIX ASPHALT DIKE (TYPE D)	COLD PLANE ASPHALT CONCRETE PAVEMENT	GEOSYNTHETIC REINFORCEMENT	GEOSYNTHETIC PAVEMENT INTERLAYER	PLACE HOT MIX ASPHALT CONCRETE (Misc AREA)	(N) FILTER FABRIC	ROADWAY EXCAVATION	(N) EMBANKMENT	CLASS 2 AGGREGATE BASE	PERMEABLE MATERIAL (STABILIZATION TRENCH)	IMPORTED MATERIAL (SHOULDER BACKING)	HOT MIX ASPHALT (TYPE A)	HOT MIX ASPHALT (OPEN GRADED)	MINOR HOT MIX ASPHALT	TACK COAT
	LF	LF	LF	SQYD	SQYD	SQYD	SQYD	SQYD	CY	CY	CY	CY	CY	TON	TON	TON	TON
LOCATION 1 (PM 23.3)				612										63			0.3
LOCATION 2 (PM 23.5)				475				89	473	29	335		15	458			0.4
LOCATION 3 (PM 26.4/26.7)																	
"C" 30+00 TO "C" 42+00	47	90	417	738			194		7186	1262	1064		8	1143		46.1	1.1
"DWY" 10+15.70 TO 10+90									262	2	23			25			
LOCATION 4 (PM 28.2)																	
STABILIZATION TRENCH					327			658	1078	870		232					
"D" 40+50 TO "D" 45+50				1604		83			147	413	127		30	256	130		1.4
<b>TOTAL</b>	47	507		3429	327	83	194	747	9146	2576	1549	232	53	1945	130	46.1	3.2

**REPLACE ASPHALT CONCRETE SURFACING**

LOCATION	WIDTH (N)	DEPTH (N)	VOLUME
	LF	LF	CY
"B" 21+90 TO "B" 22+75 RT (LOCATION 2)	11	0.5	17.3
"C" 42+00 TO "C" 42+25 RT (LOCATION 3)	12	0.5	5.6
"C" 43+15 TO "C" 43+50 (LOCATION 3)	24	0.5	15.6
<b>TOTAL</b>			38.5

**ABANDON BORE HOLE**

LOCATION	QUANTITY
	EA
PM 23.3 ("A" 12+38 LT)	1
PM 23.3 ("A" 12+38 RT)	1
<b>TOTAL</b>	2

**FENCE AND CABLE RAILING**

LOCATION	TEMPORARY FENCE (TYPE WM)	REMOVE FENCE	FENCE WM, METAL POST	CABLE RAILING
	LF	LF	LF	LF
LOCATION 4 (PM 28.2)	226	95	95	18
<b>TOTAL</b>	226	95	95	18

**MBGR**

LOCATION	REMOVE METAL BEAM GUARD RAILING	METAL BEAM GUARD RAILING (STEEL POST)	X-TENSION IN-LINE TERMINAL SYSTEM	BURIED POST END ANCHOR	(N) OBJECT MARKER (TYPE L-1)
	LF	EA	EA	EA	EA
LOCATION 3 (PM 26.4/26.7)	398	394	1	1	1
<b>TOTAL</b>	398	394	1	1	1

**SUMMARY OF QUANTITIES Q-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	40	59

REGISTERED CIVIL ENGINEER  
 AUNG M. MAUNG  
 No. 74031  
 Exp. 06-30-11  
 CIVIL  
 STATE OF CALIFORNIA

5-13-11  
 DATE

5-31-11  
 PLANS APPROVAL DATE

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	41	59

5-13-11  
 REGISTERED CIVIL ENGINEER DATE  
 5-31-11  
 PLANS APPROVAL DATE

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**NOTES:**

- (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
- EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

**TRAFFIC STRIPE AND PAVEMENT MARKERS**

LOCATION		DETAIL NUMBER	DETAIL LENGTH	4" THERMOPLASTIC TRAFFIC STRIPE		PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)
				SOLID		
FROM	TO			YELLOW	WHITE	
LOCATION 1						
"A" 11+70	"A" 14+05	22	235	470		22
"A" 11+70	"A" 14+05	27B	470		470	
LOCATION 2						
"B" 21+85	"B" 26+55	22	470	940		42
"B" 21+85	"B" 26+55	27B	940		940	
LOCATION 3						
"C" 29+95	"C" 43+80	22	1385	2770		118
"C" 29+95	"C" 43+80	27B	2770		2770	
LOCATION 4						
"D" 40+45	"D" 45+55	22	510	1020		46
"D" 40+45	"D" 45+75	27B	1060		1060	
SUBTOTAL			5200	5240		228
TOTAL			10440			228

**REMOVE THERMOPLASTIC TRAFFIC STRIPE**

LOCATION	REMOVE THERMOPLASTIC TRAFFIC STRIPE
	LF
LOCATION 4 (PM 28.2)	500
TOTAL	500

**TEMPORARY TRAFFIC STRIPE**

LOCATION	TEMPORARY TRAFFIC STRIPE (PAINT)
	LF
LOCATION 4 (PM 28.2)	501
TOTAL	501

**TEMPORARY RAILING AND CRASH CUSHION MODULE**

LOCATION	TEMPORARY RAILING (TYPE K)	TEMPORARY CRASH CUSHION MODULE
	LF	EA
LOCATION 4 (PM 28.2)	400	22
TOTAL	400	22

**SUMMARY OF QUANTITIES**

**Q-2**

**DELINEATOR**

LOCATION	REMOVE DELINEATOR	DELINEATOR (CLASS 2)	(N)
	EA	EA	LF
LOCATION 2			
"B" 21+45 Rt		1	
"B" 22+25 TO 24+25 Rt	5	5	40
LOCATION 3			
"C" 33+61 TO 37+56 Lt		12	37.5
TOTAL	5	18	

**MARKERS**

LOCATION	REMOVE MARKER	(SEE NOTE 2)			ANNOTATION (N)
		MILEPOST MARKER	UNDERDRAIN MARKER	MARKER (CULVERT)	
PM 23.45	2			2	23.45
PM 23.50	2	2			23.50
"B" 26+28, 21.00' Lt			1		
PM 26.42	2			2	26.42
PM 26.50	1	2			26.50
PM 26.51	2			2	26.51
PM 26.62	2			2	26.62
TOTAL	11	4	1	8	

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

FUNCTIONAL SUPERVISOR  
 GARY S. BIRCH

REVISOR  
 DATE

AUNG M. MAUNG  
 LAN P. NGUYEN

CALCULATED-DESIGNED BY  
 CHECKED BY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobran**  
**03-DESIGN**

FUNCTIONAL SUPERVISOR  
 GARY S. BIRCH

CALCULATED-DESIGNED BY  
 CHECKED BY

AUNG M. MAUNG  
 LAN P. NGUYEN

REVISED BY  
 DATE REVISED

**NOTE:**

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	42	59

5-13-11  
 REGISTERED CIVIL ENGINEER DATE

5-31-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 AUNG M. MAUNG  
 No. 74031  
 Exp. 06-30-13  
 CIVIL  
 STATE OF CALIFORNIA

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**EROSION CONTROL (HYDROSEED)**

LOCATION	EROSION CONTROL (HYDROSEED)	(N) COMPOST	(N) FIBER	(N) PURE LIVE SEED	(N) STABILIZING EMULSION
	SQFT	CY	LB		
LOCATION 2					
STA "B" 24+00 TO "B" 26+00 R+	2106	0.1	53	6.0	7.3
LOCATION 3					
STA "C" 31+00 TO "C" 42+00 L+	22446	1.0	567	63.4	77.3
STA "C" 31+00 TO "C" 42+00 R+	21528	1.0	544	60.8	74.1
LOCATION 4					
STA "D" 42+00 TO "D" 43+65 R+	6876	0.3	174	19.4	23.7
<b>TOTAL</b>	<b>52956</b>	<b>2.4</b>	<b>1338</b>	<b>149.6</b>	<b>182.4</b>

**TEMPORARY WATER POLLUTION CONTROL**

LOCATION	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY FIBER ROLL	TEMPORARY GRAVEL BAG BERM
	EA	LF	
LOCATION 1 (PM 23.3)			6
LOCATION 2 (PM 23.5)	1		12
LOCATION 3 (PM 26.4/26.7)	3	797	36
LOCATION 4 (PM 28.2)		357	
<b>TOTAL</b>	<b>4</b>	<b>1154</b>	<b>54</b>

**TEMPORARY FENCE (TYPE ESA)**

LOCATION	TEMPORARY FENCE (TYPE ESA)
	LF
LOCATION 4 (PM 28.2)	587
<b>TOTAL</b>	<b>587</b>

**TEMPORARY SILT FENCE**

LOCATION	TEMPORARY SILT FENCE
	LF
LOCATION 3	
STA "C" 31+30 L+ to "C" 38+00 L+	750
STA "C" 39+00 L+ to "C" 42+00 L+	312
LOCATION 4	
STA "D" 42+00 R+ to "D" 43+48 R+	418
<b>TOTAL</b>	<b>1210</b>

**TEMPORARY CHECK DAM**

LOCATION	TEMPORARY CHECK DAM
	LF
LOCATION 2	
STA "B" 21+00 L+ to "B" 25+00 L+	75
LOCATION 3	
STA "C" 31+00 R+ to "C" 35+00 R+	90
STA "C" 36+00 R+ to "C" 38+00 R+	35
<b>TOTAL</b>	<b>200</b>

**SUMMARY OF QUANTITIES**

**Q-3**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	43	59

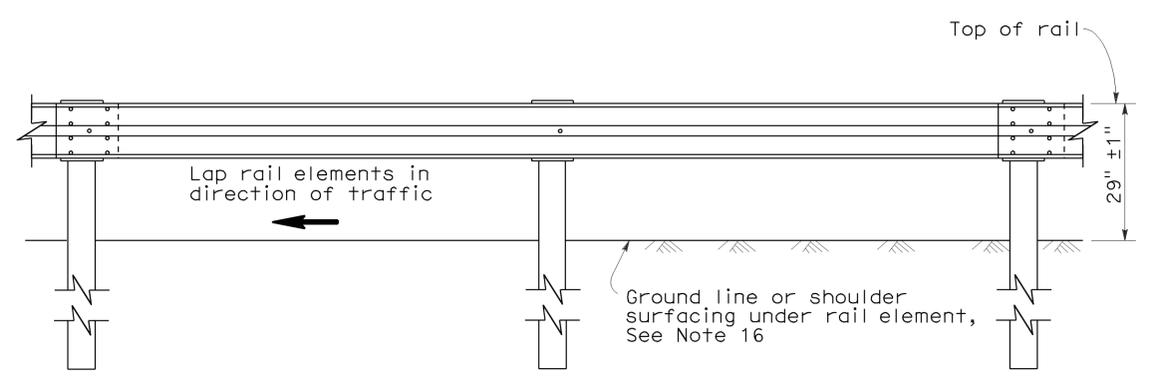
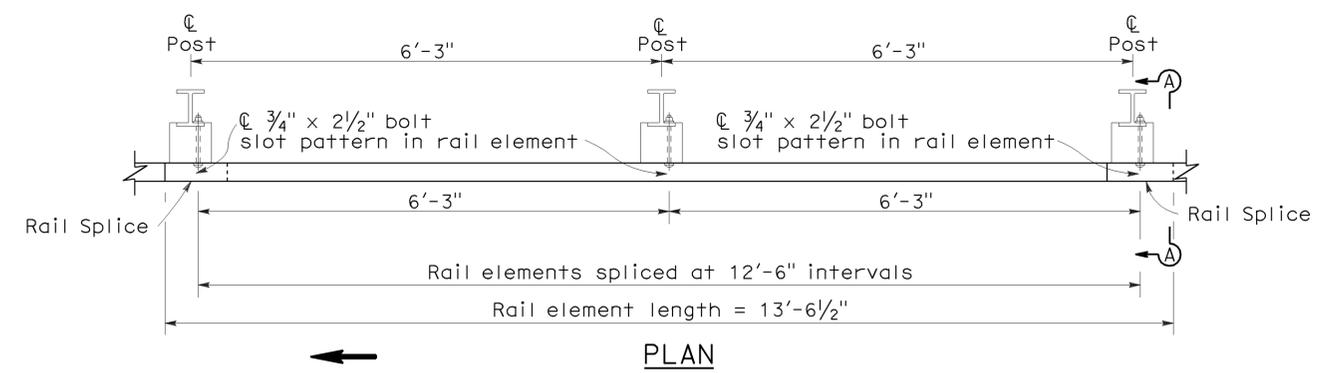
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

May 20, 2011  
PLANS APPROVAL DATE

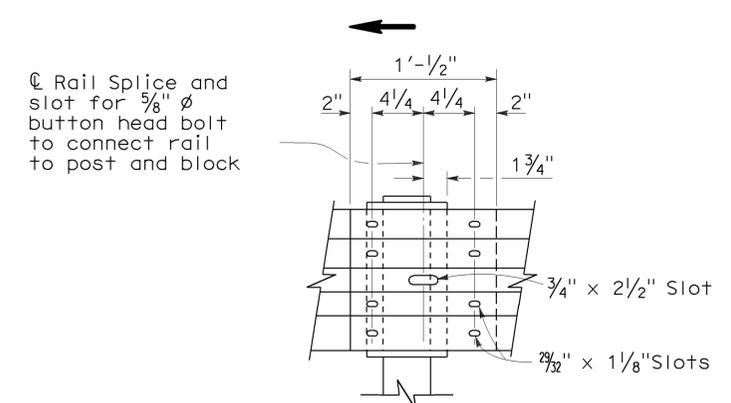
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REGISTERED PROFESSIONAL ENGINEER  
*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-11  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 5-31-11

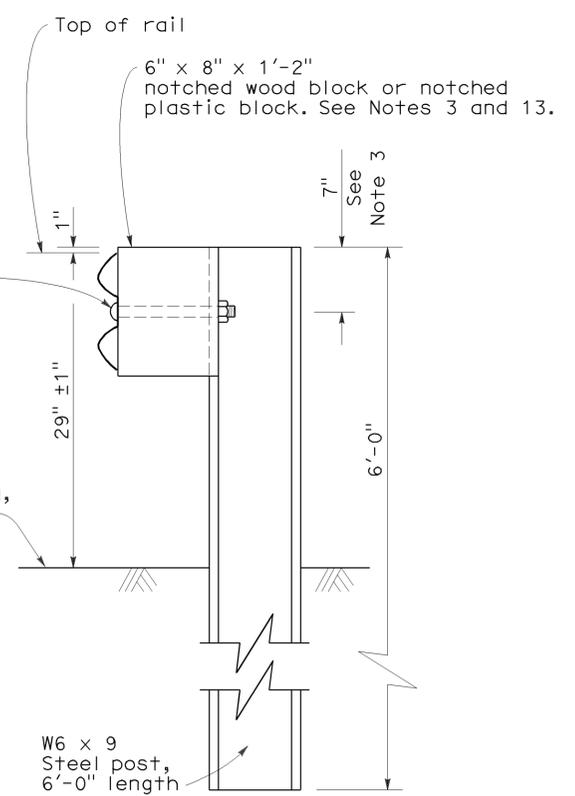
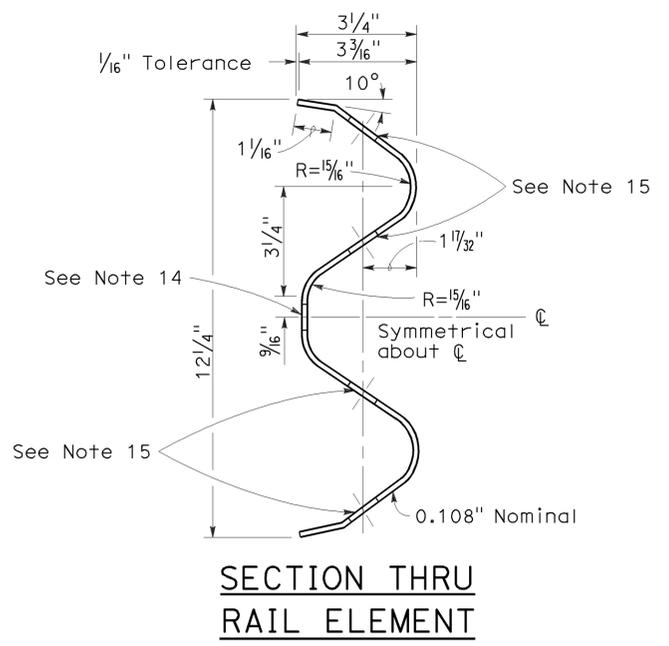


**METAL BEAM GUARD RAILING WITH STEEL POSTS  
AND NOTCHED WOOD OR NOTCHED RECYCLED PLASTIC BLOCKS**



- ELEVATION**  
**RAIL ELEMENT SPLICE DETAIL**
- Connect the overlapped end of the rail elements with  $\frac{5}{8}$ "  $\phi$  x  $1\frac{3}{8}$ " button head oval shoulder splice bolts inserted into the  $\frac{29}{32}$ " x  $1\frac{1}{8}$ " slots and bolted together with  $\frac{5}{8}$ "  $\phi$  recessed hex nuts. Recess of hex nut points toward rail element. A total of 8 bolts and nuts are to be used at each rail splice connection.
  - The ends of the rail elements are to be overlapped in the direction of traffic (see details).
  - Where end cap is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be used.

$\frac{5}{8}$ "  $\phi$  Button head bolt with hex nut. Attach rail element to wood block and steel post with bolt on traffic approach side of post web. No washer on rail face for bolted connection to line post.



**SECTION A-A**  
**TYPICAL STEEL LINE POST INSTALLATION**  
See Note 4

**NOTES:**

- For details of wood post installations, see Standard Plan A77A1.
- For details of standard hardware used to construct guard railing, see Standard Plan A77B1.
- For details of steel posts and notched wood blocks used to construct guard railing, see Standard Plan A77C2.
- For additional installation details, see Standard Plan A77C3.
- Guard railing post spacing to be 6'-3" center to center, except as otherwise noted.
- For guard railing typical layouts, see the A77E, A77F and A77G Series of Standard Plans.
- For terminal system end treatment details, see the A77L Series of Standard Plans. To connect railing to terminal system end treatment, transition the top of railing height at a ratio of 120:1 to terminal system end treatment height plus one 12'-6" standard railing section at the transitioned height for a horizontal connection to the end treatment.
- For guard railing end anchor details, see Standard Plans A77H1 and A77I2.
- For details of guard railing transition to bridge railing, see Standard Plan A77J4.
- For additional details of guard railing connection to bridge railings, see Standard Plans A77J1, A77J2 and A77K1.
- For dike positioning and guard railing delineation details, see Standard Plan A77C4.
- Direction of adjacent traffic indicated by  $\rightarrow$ .
- Notched face of block faces steel post.
- Slotted hole for bolted connection of rail element to block and post. See "Section Thru Rail Element".
- Slotted holes for splice bolts to overlap ends of rail element. See "Section Thru Rail Element".
- Install posts in soil.

STATE OF CALIFORNIA  
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**METAL BEAM GUARD RAILING  
STANDARD RAILING SECTION  
(STEEL POST WITH NOTCHED  
WOOD OR NOTCHED  
RECYCLED PLASTIC BLOCK)**

NO SCALE

RSP A77A2 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77A2  
DATED MAY 1, 2006 - PAGE 42 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP A77A2**

2006 REVISED STANDARD PLAN RSP A77A2

To accompany plans dated 5-31-11

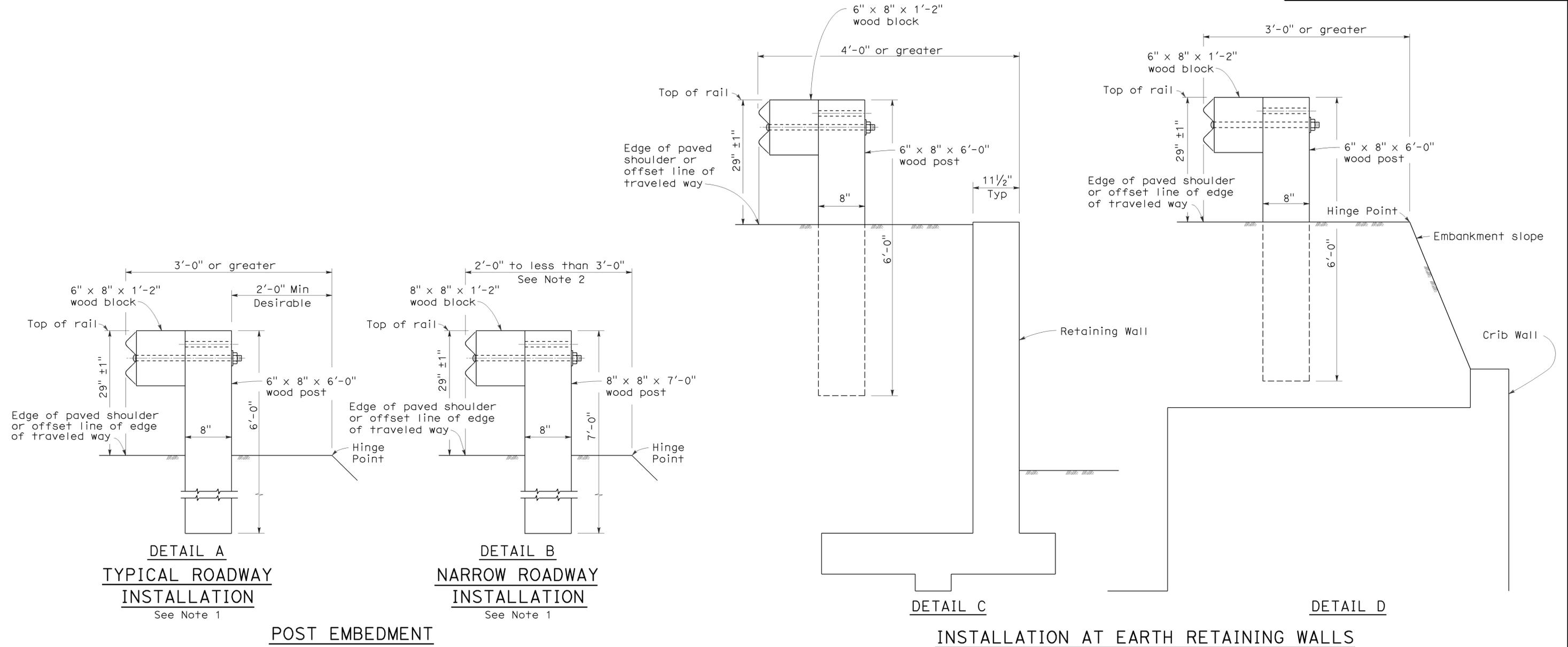
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	36	23.3/28.2	44	59

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

May 20, 2011  
PLANS APPROVAL DATE

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

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**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP A77C3**

2006 REVISED STANDARD PLAN RSP A77C3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	36	23.3/28.2	45	59

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

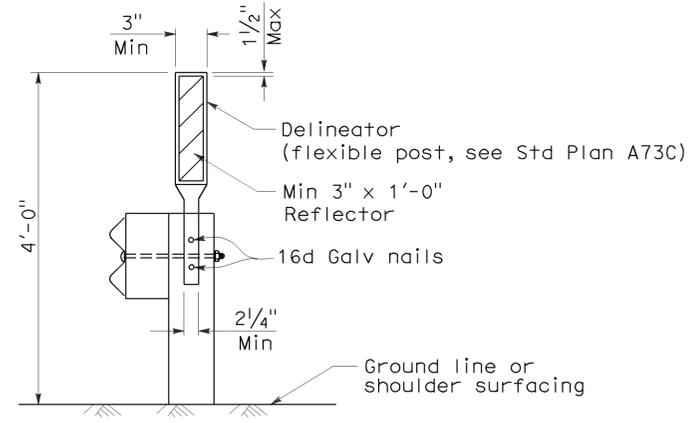
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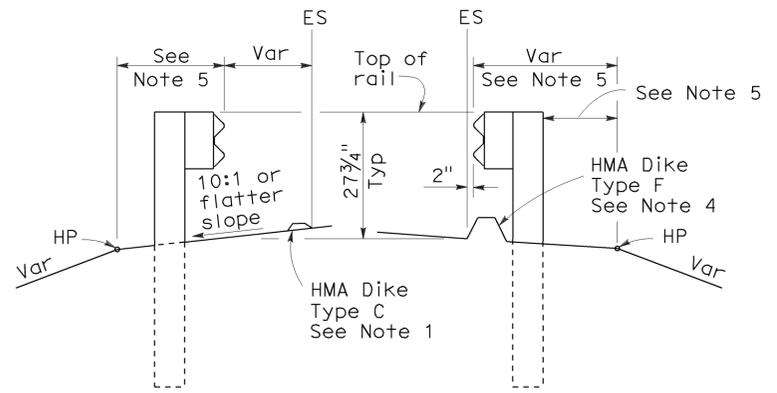
To accompany plans dated 5-31-11

**NOTES:**

1. When necessary to place dike in front of face of guard railing, only Type C dike may be used. For dike details, see Standard Plan A87B.
2. For standard railing post embedment, see Standard Plans A77C3.
3. Guard railing delineation to be used where shown on the Project Plans.
4. When dike or curb is placed under guard railing, the maximum height of the dike or curb shall be 4". Mountable dike should not be used. For dike and curb details, see Revised Standard Plans RSP A87A and Standard Plan A87B.
5. For details of typical distance between the face of rail and hinge point, see Standard Plan A77C3.



**GUARD RAILING DELINEATION**  
See Note 3



**DIKE POSITIONING**  
See Note 1

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING  
TYPICAL RAILING DELINEATION  
AND DIKE POSITIONING DETAILS**

NO SCALE

RSP A77C4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77C4  
DATED MAY 1, 2006 - PAGE 47 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP A77C4**

2006 REVISED STANDARD PLAN RSP A77C4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	36	23.3/28.2	46	59

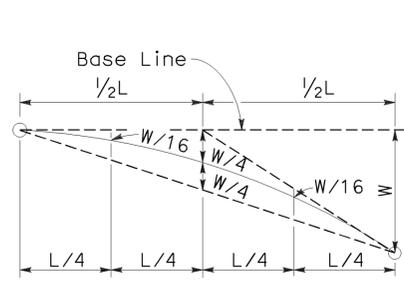
Randell D. Hiatt  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

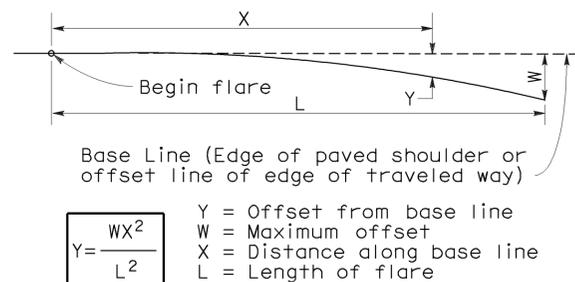
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Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 5-31-11

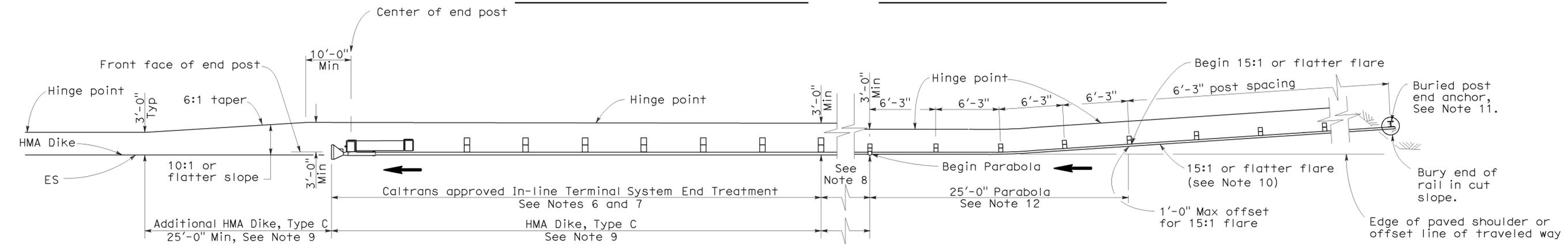


TYPICAL PARABOLIC LAYOUT



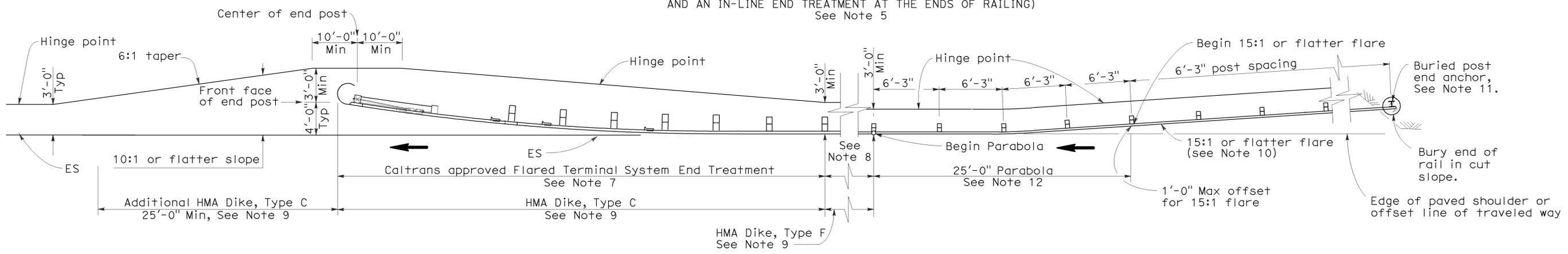
PARABOLIC FLARE OFFSETS

Y = Offset from base line  
W = Maximum offset  
X = Distance along base line  
L = Length of flare

$$Y = \frac{WX^2}{L^2}$$


TYPE 11K LAYOUT

(EMBANKMENT GUARD RAILING INSTALLATION WITH A BURIED END ANCHOR TREATMENT AND AN IN-LINE END TREATMENT AT THE ENDS OF RAILING)  
See Note 5



TYPE 11L LAYOUT

(EMBANKMENT GUARD RAILING INSTALLATION WITH A BURIED END ANCHOR TREATMENT AND A FLARED END TREATMENT AT THE ENDS OF RAILING)  
See Note 5

NOTES:

- Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or plastic blocks may be used for 6" x 8" x 6'-0" wood post with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- Direction of adjacent traffic indicated by →.
- Layout Types 11D through 11L, shown on the A77E Series of Revised Standard Plans, are typically used where guard railing is recommended to shield embankment slopes and a crashworthy end treatment is required for both directions of traffic.
- In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system end treatment to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height and side slope), construction of additional guard railing (length equal to multiples of 12'-6" with 6'-3" post spacing) may be advisable.
- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.
- The 15:1 or flatter flare used with buried end anchors is based on the edge of the paved shoulder or offset line of edge of the traveled way. The length of guard railing within the 15:1 or flatter flare is based on site conditions and should be a length equal to multiples of 12'-6".
- For details of the buried post end anchor used with Type 11K and 11L Layouts, see Standard Plan A77I2.
- For typical flare offsets for 25'-0" length parabola with maximum offset of 1'-0", see Revised Standard Plan RSP A77E1.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**METAL BEAM GUARD RAILING  
TYPICAL LAYOUTS FOR  
EMBANKMENTS**

NO SCALE

RSP A77E6 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77E6  
DATED MAY 1, 2006 - PAGE 53 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP A77E6**

2006 REVISED STANDARD PLAN RSP A77E6

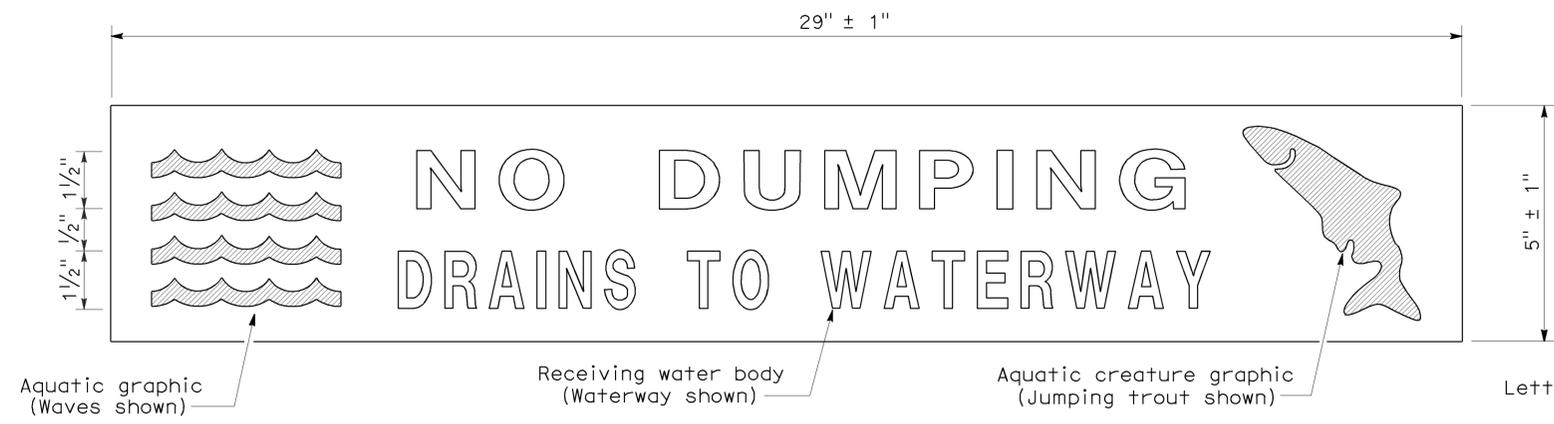
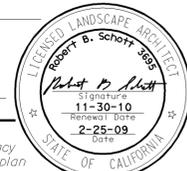
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	36	23.3/28.2	47	59

*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT

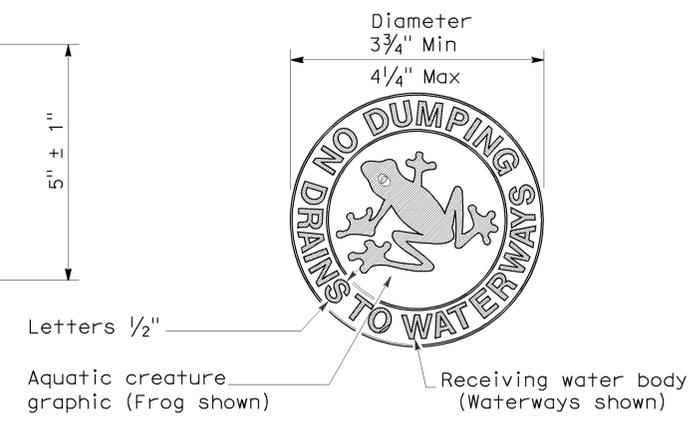
April 3, 2009  
 PLANS APPROVAL DATE

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To accompany plans dated 5-31-11



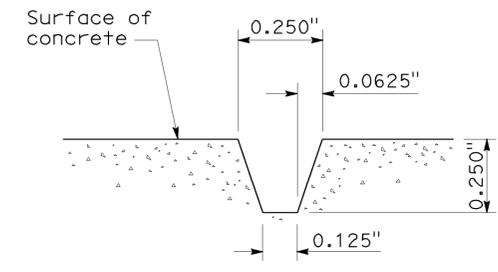
PLAN  
 DRAINAGE INLET MARKER  
 (PREFABRICATED THERMOPLASTIC)



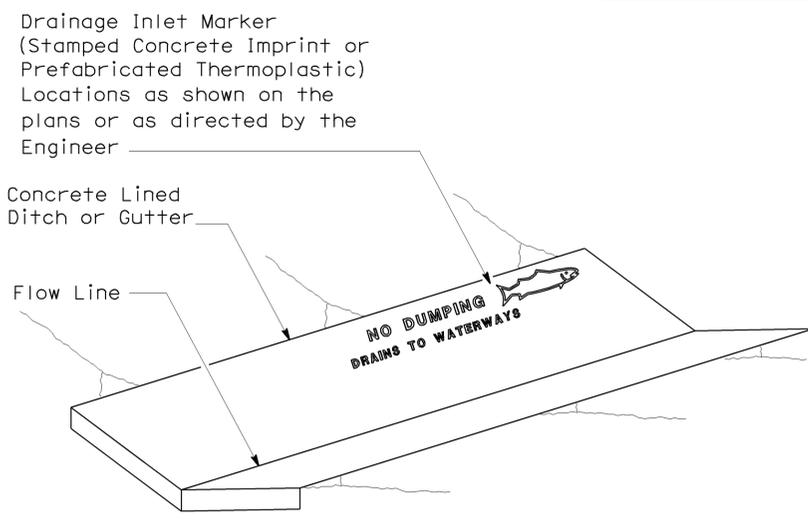
PLAN  
 DRAINAGE INLET MARKER  
 (MEDALLION)



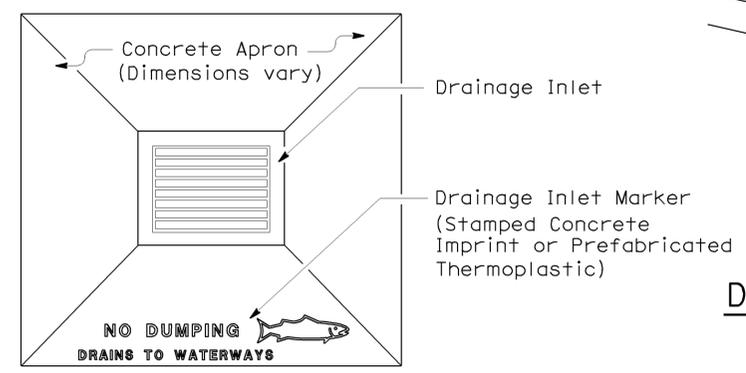
PLAN  
 DRAINAGE INLET MARKER  
 (STAMPED CONCRETE IMPRINT)



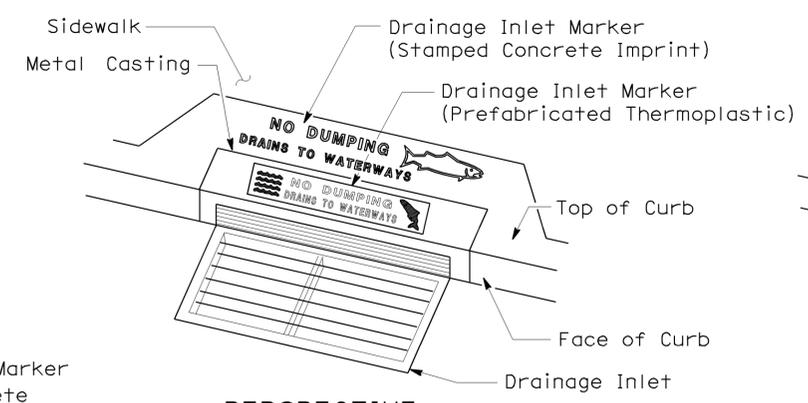
SECTION A-A  
 STAMPED CONCRETE  
 IMPRINT DETAIL



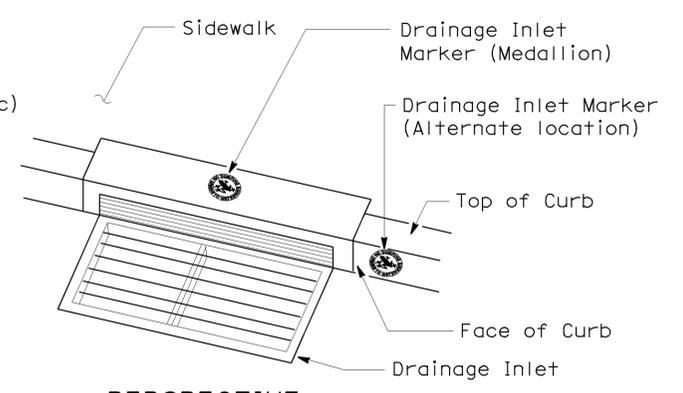
PERSPECTIVE  
 DRAINAGE INLET MARKER ON  
 CONCRETE LINED DITCH



PLAN  
 DRAINAGE INLET MARKER ON  
 DRAINAGE INLET APRON



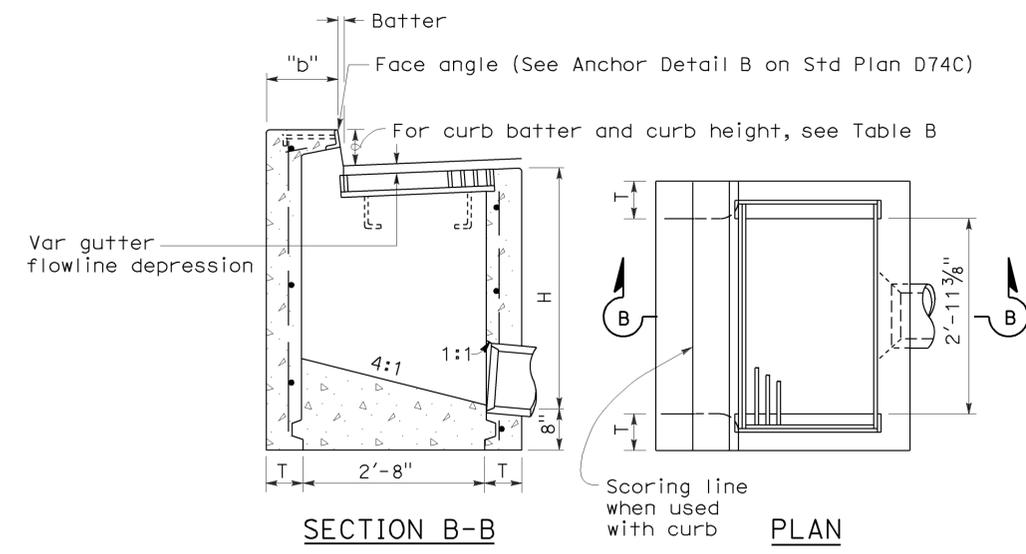
PERSPECTIVE  
 DRAINAGE INLET MARKER ON  
 DRAINAGE INLET



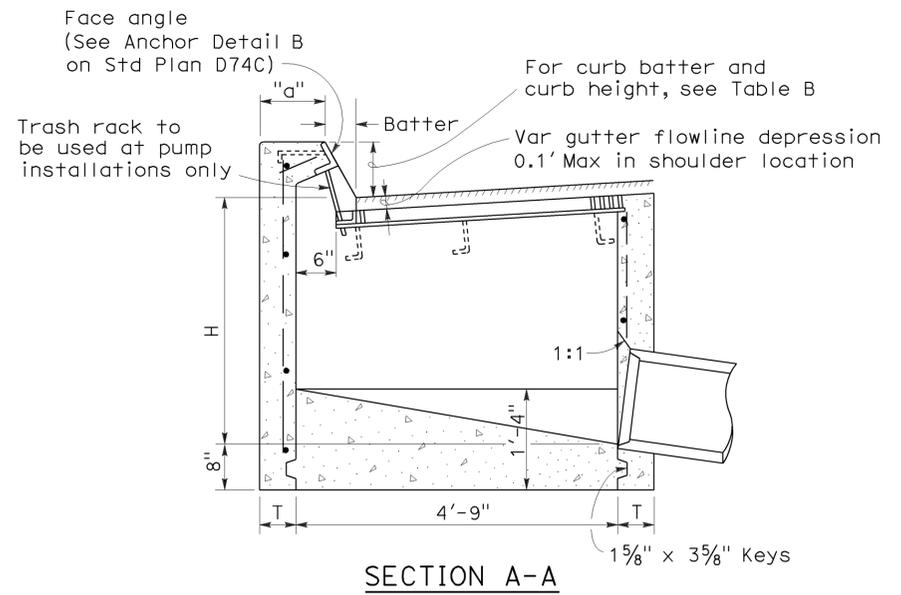
PERSPECTIVE  
 DRAINAGE INLET MARKER (MEDALLION)  
 ON DRAINAGE INLET

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**DRAINAGE INLET MARKERS**  
 NO SCALE  
 NSP D71 DATED APRIL 3, 2009 SUPPLEMENTS  
 THE STANDARD PLANS BOOK DATED MAY 2006.

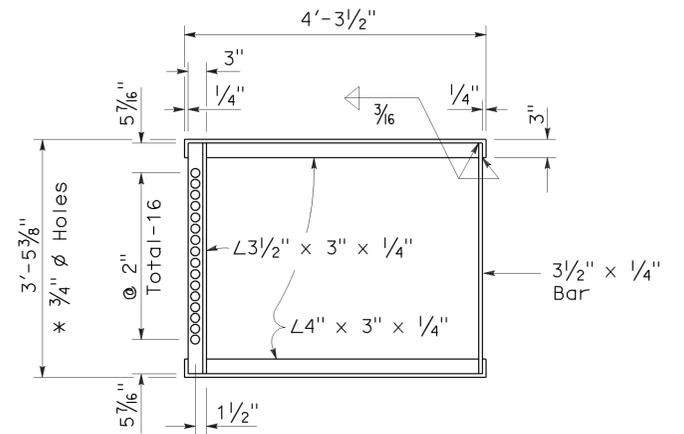
To accompany plans dated 5-31-11



TYPE GO

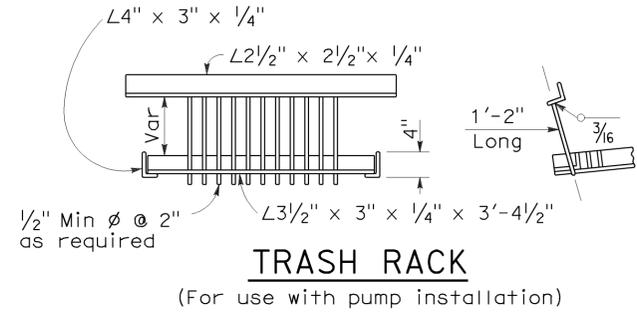


SECTION A-A



GRATE FRAME FOR TYPE GDO INLET

\* 3/4"  $\phi$  Holes required only with trash rack



TRASH RACK  
(For use with pump installation)

TABLE A  
CONCRETE QUANTITIES

TYPE	H=3'-0" TO 8'-0" (T=6")		H=8'-1" TO 20'-0" (T=8")	
	H=3'-0" (CY)	ADDITIONAL PCC PER FOOT (CY)	H=8'-1" (CY)	ADDITIONAL PCC PER FOOT (CY)
GO	1.24	0.245	3.39	0.346
GDO	1.62	0.322	4.36	0.446

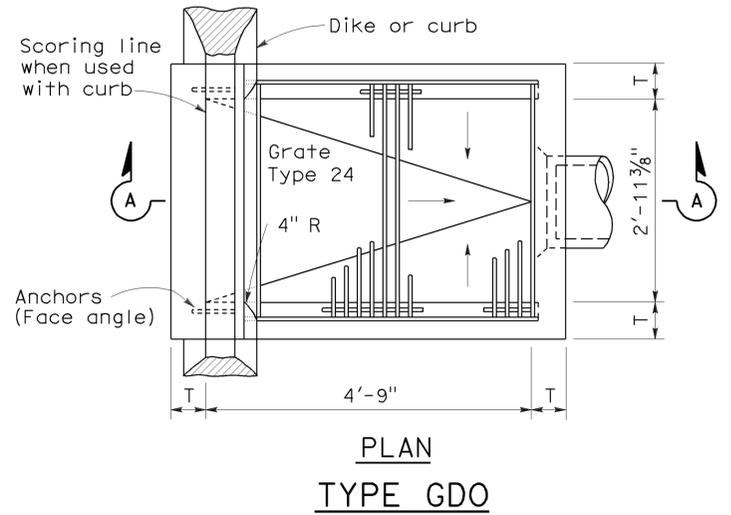
Table based on 8" floor slab, no deduction for pipe openings, and curb type giving highest quantity of concrete. No deductions or adjustments are to be made to these quantities because of pipe openings, different floor alternatives or different curb type.

TABLE B

CURB TYPE	NORMAL CURB HEIGHT	CURB BATTER	"a" DIMENSION	"b" DIMENSION
A1-6	6"	1 1/2"	T+7 1/2"	T+6 1/2"
A1-8	8"	2"	T+7"	T+6"
B1-6	6"	4"	T+5"	T+4"
Type A Dike	6"	3"	T+6"	T+5"

NOTES:

- "H" is the difference in elevation between the outlet pipe flow line and the normal gutter grade line undeepressed.
- For "T" wall thickness, see Table A below.
- Wall reinforcing not required when "H" is 8'-0" or less and the unsupported width or length is 7'-0" or less. Walls exceeding these limits shall be reinforced with #4 @ 18"  $\pm$  centers placed 1/2" clear to inside of box unless otherwise shown.
- Inlet bottom reinforcing not required. See Standard Plan D74C for alternative reinforced bottom.
- Steps - None required where "H" is less than 2'-6". Where "H" is 2'-6" or more, install steps with lowest rung 1'-0" above the floor and highest rung not more than 6" below top of inlet. The distance between steps shall not exceed 1'-0" and shall be uniform throughout the length of the wall. Place steps in the wall without an opening. Step inserts may be substituted for the bar steps. Step Inserts shall comply with State Industrial Safety requirements. See Standard Plan D74C for step details.
- When shown on the project plans, place a 3/4" plain round protection bar horizontally across the length of the opening and bend back 4" into the inlet wall on each side.
- Pipe(s) can be placed in any wall.
- Curb section shall match adjacent curb.
- Basin floors shall have wood trowel finish and shall slope toward the outlet pipe as shown.
- Galvanizing - See Standard Specifications or Special Provisions.
- See Standard Plan D77A and D77B for grate and frame details and weights of miscellaneous iron and Steel.
- See Standard Plan D78A for gutter depression details.
- Full penetration butt welds may be substituted for the fillet welds on all anchors.
- Standard square, hexagon, round or equivalent headed anchors may be substituted for the right angle hooks on the anchors shown on this plan.
- Cast-in-place or precast alternative is optional with contractor. See Standard Specifications.
- Cast-in-place inlets to be formed around all pipes/stubs intersecting the inlet and concrete poured in one continuous operation. Precast inlets shall have mortared pipe connections conforming to details for Type GCP inlets on Standard Plan D75B. See Standard Specifications for mortar composition.



PLAN  
TYPE GDO

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**DRAINAGE INLETS**  
NO SCALE

2006 REVISED STANDARD PLAN RSP D74B

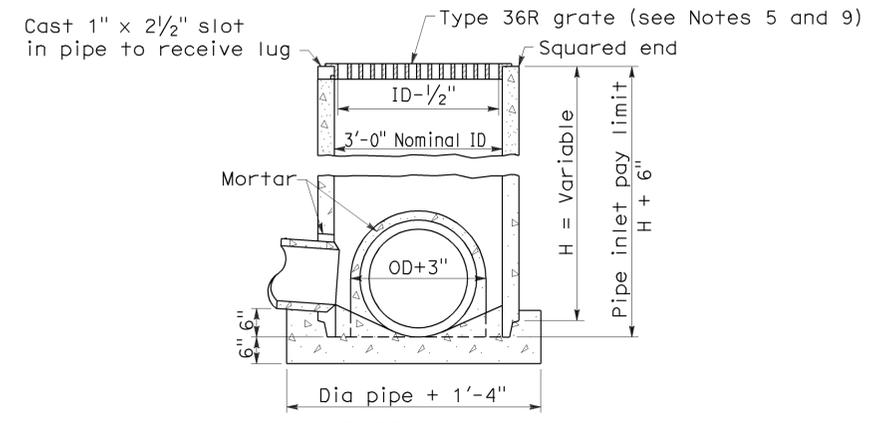
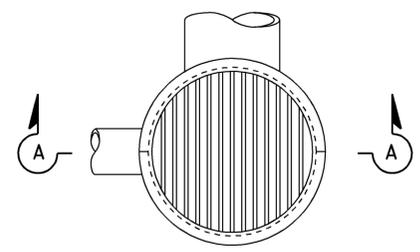
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	36	23.3/28.2	49	59

Raymond Don Tsztso  
 REGISTERED CIVIL ENGINEER  
 June 6, 2008  
 PLANS APPROVAL DATE

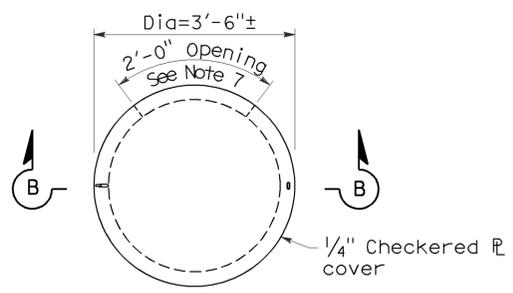
REGISTERED PROFESSIONAL ENGINEER  
 Raymond  
 Don Tsztso  
 No. C37332  
 Exp. 6-30-08  
 CIVIL  
 STATE OF CALIFORNIA

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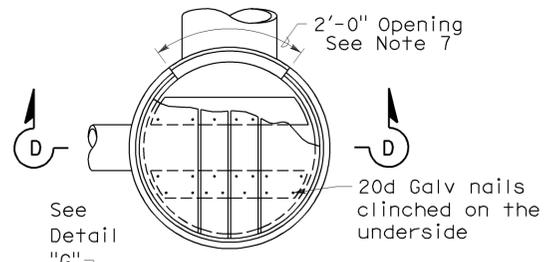
To accompany plans dated 5-31-11



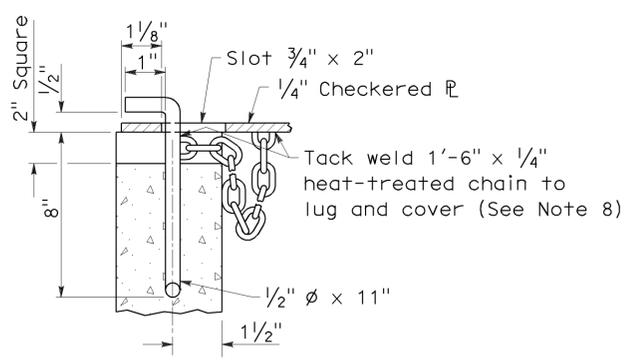
**SECTION A-A**  
**TYPE GCP**  
CONCRETE PIPE INLET WITH GRATE



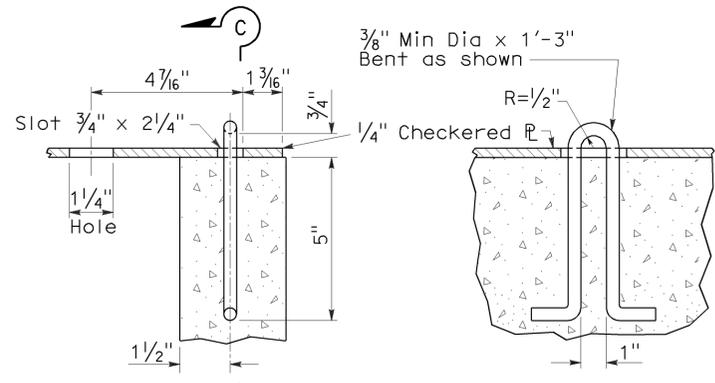
**SECTION B-B**  
**TYPE OCP or OCPI**  
CONCRETE PIPE INLET WITH STEEL COVER  
(See Note 6)



**SECTION D-D**  
**TYPE OCP or OCPI**  
CONCRETE PIPE INLET WITH REDWOOD COVER  
(See Notes 6 and 10)

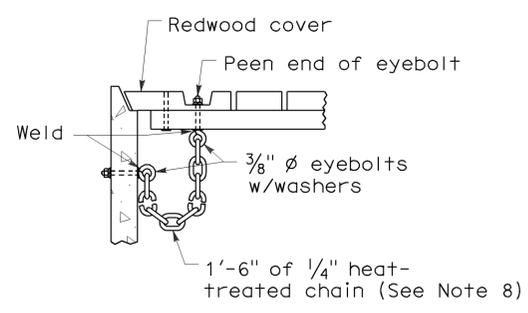


**DETAIL 'E'**



**SECTION C-C**

**DETAIL 'F'**



**DETAIL 'G'**

**NOTES:**

- For details of steel pipe inlets, see Standard Plan D75A.
- For details of ladder and steps and when ladder or steps are required, see Standard Plan D75C.
- Inlet pipes shall not protrude into basin.
- Except for inlets used for junction boxes, basin floors shall have minimum slope of 4:1 from all directions toward outlet pipe, and a wood trowel finish.
- See Revised Standard Plan RSP D77A and Standard Plan D77B for Grate and Frame Details and Weights of Miscellaneous Iron and Steel.
- Designation of Type OCPI pipe inlets on plans indicates trash racks are to be furnished and installed on all side openings. See Standard Plan D75C for Trash Rack details.
- More than one side opening may be required. Location and number as ordered by the Engineer. Opening may be cast in pipe.
- Chain to be provided when specified.
- Place pipe so bars of grate will be parallel with main surface flow.
- Redwood covers shall only be placed at locations designated on the plans.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**CONCRETE PIPE INLETS**

NO SCALE

RSP D75B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN D75B  
DATED MAY 1, 2006 - PAGE 153 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP D75B**

2006 REVISED STANDARD PLAN RSP D75B

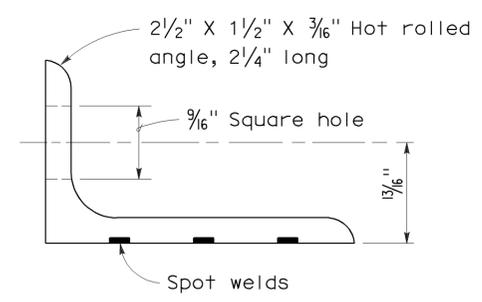
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	36	23.3/28.2	50	59

Raymond Don Tsztoo  
 REGISTERED CIVIL ENGINEER  
 June 6, 2008  
 PLANS APPROVAL DATE

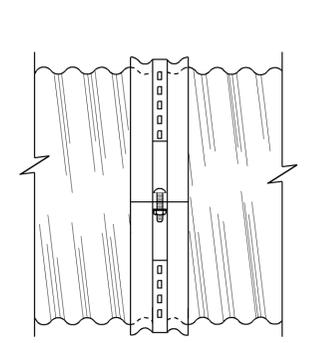
REGISTERED PROFESSIONAL ENGINEER  
 Raymond Don Tsztoo  
 No. C37332  
 Exp. 6-30-08  
 CIVIL  
 STATE OF CALIFORNIA

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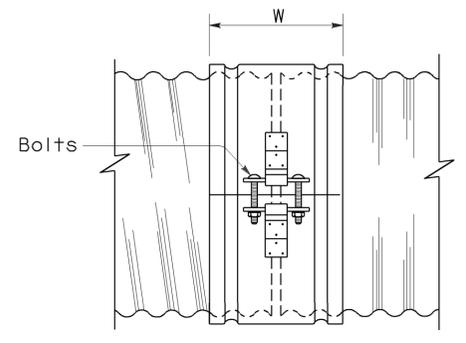
To accompany plans dated 5-31-11



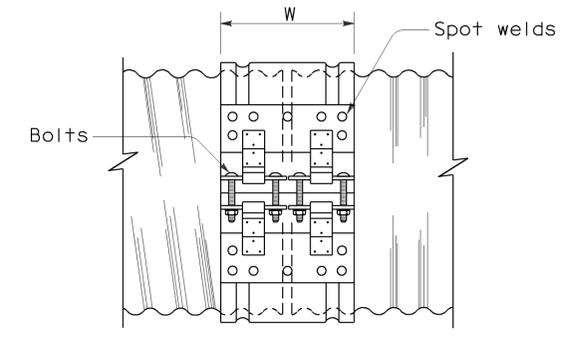
ANGLE



SIDE VIEW ANGLE



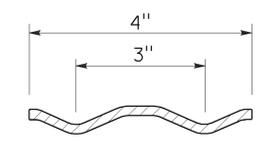
SIDE VIEW SINGLE BAR AND STRAP



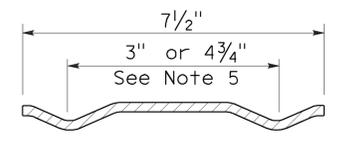
SIDE VIEW DOUBLE BAR AND STRAP

NOTES:

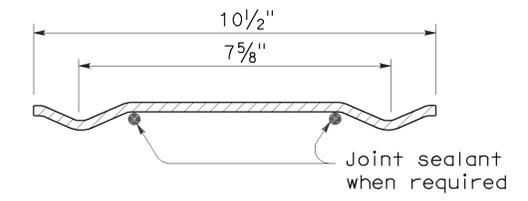
1. All ferrous metal coupling band connection hardware shall be galvanized or electroplated in accordance with the Standard Specifications.
2. Dimensions and thicknesses shown are minimum.
3. Spot welds shall develop minimum required strength of strap.
4. Fillet welds of equivalent strength may be substituted for spot welds or rivets.
5. Dimension depends upon whether end condition is lips up or lips down.



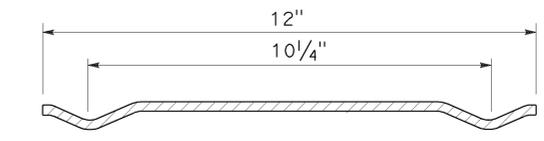
SECTION H-4 HUGGER BAND



SECTION H-7 HUGGER BAND



SECTION H-10 HUGGER BAND



SECTION H-12 HUGGER BAND

HUGGER COUPLING BANDS

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**CORRUGATED METAL PIPE  
 COUPLING DETAILS No. 4  
 HUGGER COUPLING BANDS**

NO SCALE

RSP D97D DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN D97D  
 DATED MAY 1, 2006 - PAGE 186 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP D97D**

2006 REVISED STANDARD PLAN RSP D97D

ANNULAR AND HELICAL PROFILE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	36	23.3/28.2	51	59

Raymond Don Tsztuo  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

STATE OF CALIFORNIA  
REGISTERED PROFESSIONAL ENGINEER  
Raymond Don Tsztuo  
No. C37332  
Exp. 6-30-08  
CIVIL

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COUPLING TYPE	PIPE CORRUGATION	PIPE SIZE	W OR A	PIPE WALL THICKNESS		BAND THICKNESS		BAR AND STRAP (CSP ONLY)				ANGLE							
				CSP	CAP	CSP	CAP	STRAP THICKNESS	BOLTS Dia	BAR Dia	BAR YIELD STRENGTH	DIMENSIONS		BOLTS (No. - Dia)		RIVETS ANGLE TO BAND		SPOT WELDS ANGLE TO BAND	
												CSP	CAP	CSP	CAP	CSP	CAP	CSP	CAP
TWO PIECE INTEGRAL FLANGE	1 1/2" x 1/4"	6"-10"	7"	0.064"-0.079"	0.060"	0.064"	0.060"							2-3/8"	2-3/8"				
	2 2/3" x 1/2"	12"-24"	12"		0.060"-0.105"		0.060"								3-1/2"				
UNIVERSAL	2 2/3" x 1/2"	THROUGH 36"	12"	0.064"-0.138"	0.060"-0.135"	0.064"	0.060"	0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"	
		42"-60"	16 1/4"	0.064"-0.168"	0.060"-0.164"	0.064"	0.060"	DOUBLE 0.079"	1/2"	7/8"	32 ksi	2" x 2" x 1/4"	2" x 2" x 1/4"	4-1/2"	4-1/2"	5-3/8"	5-3/8"		
ANNULAR	2 2/3" x 1/2"	THROUGH 36"	12"	0.064"-0.138"	0.060"-0.135"	0.064"	0.060"					2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"	
		42"-60"	12"	0.064"-0.079"		0.064"							2" x 2" x 3/16"		3-1/2"		3-3/8"		5-1/2"
		42"-60"	12"	0.109"-0.168"	0.135"-0.164"	0.064"	0.075"						2" x 2" x 1/4"	2" x 2" x 1/4"	3-1/2"	3-1/2"	5-3/8"	5-3/8"	
		66"-72"	24"		0.164"		0.105"						2" x 2" x 1/4"	2" x 2" x 1/4"	5-1/2"	5-1/2"		5-1/2"	
		66"-84"	24"	0.109"-0.168"		0.064"							2" x 2" x 1/4"		5-1/2"		7-3/8"		
		42"-54"	12"		0.060"-0.105"		0.060"						2" x 2" x 3/16"		3-1/2"		3-3/8"		
	3" x 1"	48"-60"	14"	0.064"-0.079"		0.064"							2" x 2" x 3/16"		3-1/2"		3-3/8"		5-1/2"
		48"-60"	14"	0.109"		0.064"							2" x 2" x 3/16"		3-1/2"		5-3/8"		
		66"-120"	25"	0.064"-0.109"		0.064"							2" x 2" x 3/16"		5-1/2"		9-3/8"		
		42"-60"	14"		0.060"-0.105"		0.060"						2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"			5-3/8"	
		42"-60"	14"		0.135"		0.075"						2" x 2" x 1/4"	2" x 2" x 1/4"	3-1/2"			5-3/8"	
		66"-96"	25"		0.060"-0.135"		0.060"						2" x 2" x 1/4"	2" x 2" x 1/4"	5-1/2"			7-3/8"	
	HELICAL	2 2/3" x 1/2"	THROUGH 36"	12"	0.064"-0.138"	0.060"-0.135"	0.064"	0.060"					2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"
			42"-54"	12"		0.060"-0.105"		0.060"					2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	
42"-60"			12"	0.064"-0.079"		0.064"							2" x 2" x 3/16"		3-1/2"		3-3/8"		5-1/2"
42"-60"			12"	0.109"-0.168"	0.135"-0.164"	0.064"	0.075"						2" x 2" x 1/4"	2" x 2" x 1/4"	3-1/2"	3-1/2"	5-3/8"	5-3/8"	
66"-84"			24"	0.109"-0.168"		0.064"							2" x 2" x 1/4"	2" x 2" x 1/4"	5-1/2"		7-3/8"		
3" x 1"		48"-60"	14"	0.064"-0.079"		0.064"							2" x 2" x 3/16"		3-1/2"		3-3/8"		5-1/2"
		48"-60"	14"	0.109"		0.064"							2" x 2" x 3/16"		3-1/2"		5-3/8"		
		66"-120"	25"	0.064"-0.109"		0.064"							2" x 2" x 3/16"		5-1/2"		9-3/8"		
		42"-60"	14"		0.060"-0.105"		0.060"						2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"			5-3/8"	
		42"-60"	14"		0.135"		0.075"						2" x 2" x 1/4"	2" x 2" x 1/4"	3-1/2"			5-3/8"	
HUGGER	2 2/3" x 1/2" REROLLED END	THROUGH 48"	10 1/2"	0.109"		0.064"		0.079"	1/2"	7/8"	32 ksi								
		54"-66"	10 1/2"	0.109"		0.064"		DOUBLE 0.079"	1/2"	7/8"	32 ksi								
		THROUGH 54"	10 1/2"	0.064"-0.079"		0.064"		0.079"	1/2"	7/8"	32 ksi								
		THROUGH 60"	10 1/2"	0.138"		0.079"		DOUBLE 0.079"	1/2"	7/8"	32 ksi								
		66"-72"	10 1/2"	0.138"		0.109"		DOUBLE 0.079"	1/2"	7/8"	32 ksi								
	3" x 1" REROLLED END	THROUGH 72"	10 1/2"	0.168"		0.109"		DOUBLE 0.109"	1/2"	7/8"	45 ksi								
		48"-84"	10 1/2"	0.109"		0.079"		DOUBLE 0.079"	1/2"	7/8"	32 ksi								
		48"-90"	10 1/2"	0.064"-0.079"		0.064"		DOUBLE 0.079"	1/2"	7/8"	32 ksi								
		96"-102"	10 1/2"	0.079"		0.079"		DOUBLE 0.079"	1/2"	7/8"	32 ksi								
		90"-120"	10 1/2"	0.109"		0.109"		DOUBLE 0.109"	1/2"	7/8"	45 ksi								

To accompany plans dated 5-31-11

NOTES:

- All ferrous metal coupling band connection hardware shall be galvanized or electroplated in accordance with the Standard Specifications.
- For helically corrugated coupling bands, the connection angles may be oriented parallel to the pipe axis, provided connecting holes are slotted lengthwise sufficiently to allow adjustment for the helix angle.
- Tension strap may be connected to band with either spot welds or fillet welds that develop minimum required strength of strap.
- Use 1/4" gage line dimension on attached angle leg for rivets and spot welds.
- Band thickness shall not be less than:
  - 3 standard thicknesses lighter than the thickness of the pipe for Corrugated Steel Pipe.
  - 2 standard thicknesses lighter than the thickness of the pipe and in no case lighter than 0.060" for Corrugated Aluminum Pipe.
- Dimensions, thicknesses and strengths shown are minimum.
- For pipe arches use same width band as for round pipe of equal periphery.
- Fillet welds of equivalent strength may be substituted for spot welds or rivets.
- Spot welds shall develop minimum required strength of strap.
- Pipe with rerolled ends having at least two 2 2/3" x 1/2" annular corrugations at each end with or without an upturned flange may be connected with any of the annular coupling bands shown for pipe of the same diameter and wall thickness and having 2 2/3" x 1/2" corrugations.
- In the case of H-12 huggerbands, two piece bands are required for diameters through 96" and three piece bands are required for diameters 102" through 120".
- Two piece bands are required for pipes greater than 42" diameter.

SPIRAL RIB PROFILE

COUPLING TYPE	PIPE CORRUGATION	PIPE SIZE	W	PIPE WALL THICKNESS		BAND THICKNESS		BAR AND STRAP (SSRP ONLY)				ANGLE						
				SSRP	ASRP	SSRP	ASRP	STRAP THICKNESS	BOLTS Dia	BAR Dia	BAR YIELD STRENGTH	DIMENSIONS		BOLTS (No.- Dia)		RIVETS ANGLE TO BAND		SPOT WELDS ANGLE TO BAND
												SSRP	ASRP	SSRP	ASRP	SSRP	ASRP	SSRP
ANNULAR	2 2/3" x 1/2" * REROLLED END	24"-36"	12"	0.064"-0.109"	0.060"-0.105"	0.064"	0.060"	0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"
		42"-60"	12"	0.064"-0.079"	0.075"-0.105"	0.064"	0.075"	0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"
		42"-60"	12"	0.109"		0.064"		0.079"	1/2"	7/8"	32 ksi	2" x 2" x 1/4"		3-1/2"		5-3/8"		
		66"-84"	24"	0.109"		0.064"		0.079"	1/2"	7/8"	32 ksi	2" x 2" x 1/4"		5-1/2"		7-3/8"		
HUGGER	2 2/3" x 1/2" * REROLLED END	24"-54"	10 1/2"	0.064"-0.079"		0.064"		0.079"	1/2"	7/8"	32 ksi							
		24"-48"	10 1/2"	0.109"		0.064"		0.079"	1/2"	7/8"	32 ksi							
		54"-66"	10 1/2"	0.109"		0.064"		Double 0.079"	1/2"	7/8"	32 ksi							

\* See Note 13.

13. All profiles of Spiral Rib Pipe (3/4" x 3/4" ribs at 7/2" pitch and 3/4" x 1" ribs at 1 1/2" pitch in both steel and aluminum and 3/4" x 1" ribs at 8/2" pitch in steel only) shall be manufactured with rerolled ends. Corrugation profile of the rerolled ends shall be 2 2/3" x 1/2" annual corrugations with a minimum of two full corrugations at each end.

**CORRUGATED METAL PIPE COUPLING DETAILS No. 6 POSITIVE JOINT**

NO SCALE

RSP D97F DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN D97F DATED MAY 1, 2006 - PAGE 188 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP D97F**

2006 REVISED STANDARD PLAN RSP D97F

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	36	23.3/28.2	52	59

Raymond Don Tsztoo  
 REGISTERED CIVIL ENGINEER

June 6, 2008  
 PLANS APPROVAL DATE

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ANNULAR AND HELICAL PROFILE

COUPLING TYPE	PIPE CORRUGATION	PIPE SIZE	W OR A	PIPE WALL THICKNESS				BAR AND STRAP (CSP ONLY)			ANGLE								
				PIPE WALL THICKNESS		BAND THICKNESS		STRAP THICKNESS	BOLTS Dia	BAR Dia	DIMENSIONS		BOLTS (No.- Dia)		RIVETS ANGLE TO BAND		SPOT WELDS ANGLE TO BAND		
				CSP	CAP	CSP	CAP				CSP	CAP	CSP	CAP	CSP	CAP	CSP		
TWO PIECE INTEGRAL FLANGE	1 1/2' x 1/4"	6"	7"	0.064"-0.168"		0.052"													
	1 1/2' x 1/4"	8"-10"	7"	0.064"-0.168"		0.064"-0.164"		0.064"	0.060"										
ANNULAR	2 2/3" x 1/2"	THROUGH 24"	12"	0.064"-0.168"		0.060"-0.164"		0.064"	0.060"										
HUGGER	2 2/3" x 1/2" REROLLED END	THROUGH 24"	10 1/2"	0.064"-0.168"				0.064"		0.079"	1/2"	7/8"							

- NOTES: To accompany plans dated 5-31-11
- All ferrous metal coupling band connection hardware shall be galvanized or electro-plated in accordance with the Standard Specifications.
  - For helically corrugated coupling bands, the connection angles may be oriented parallel to the pipe axis, provided connecting holes are slotted lengthwise sufficiently to allow adjustment for the helix angle.
  - Tension strap may be connected to band with either spot welds or fillet welds that develop minimum required strength of strap.
  - Use 1/4" gage line dimension on attached angle leg for rivets and spot welds.
  - Band thickness shall not be less than:
    - 3 standard thicknesses lighter than the thickness of the pipe for Corrugated Steel Pipe.
    - 2 standard thicknesses lighter than the thickness of the pipe and in no case lighter than 0.060" for Corrugated Aluminum Pipe.
  - Dimensions, thicknesses and strengths shown are minimum.
  - For pipe arches use same width band as for round pipe of equal periphery.
  - Fillet welds of equivalent strenght may be substituted for spot welds or rivets.
  - Spot welds shall develop minimum required strength of strap.
  - Pipe with rerolled ends having at least two 2 2/3" x 1/2" annular corrugations at each end with or without an upturned flange may be connected with any of the annular coupling bands shown for pipe of the same diameter and wall thickness and having 2 2/3" x 1/2" corrugations.
  - For downdrain applications, two piece integral flange couplers shall have factory applied sleeve type rubber gaskets with a minimum length of 7" measured along the length of the pipe.

SPIRAL RIB PROFILE

COUPLING TYPE	PIPE CORRUGATION	PIPE SIZE	W	PIPE WALL THICKNESS				BAR AND STRAP (SSRP ONLY)			ANGLE								
				PIPE WALL THICKNESS		BAND THICKNESS		STRAP THICKNESS	BOLTS Dia	BAR Dia	DIMENSIONS		BOLTS (No.- Dia)		RIVETS ANGLE TO BAND		SPOT WELDS ANGLE TO BAND		
				SSRP	ASRP	SSRP	ASRP							SSRP	ASRP	SSRP	ASRP	SSRP	ASRP
ANNULAR	2 2/3" x 1/2" * REROLLED END	24"	12"	0.064"-0.168"		0.060"-0.164"		0.064"	0.060"										
HUGGER	2 2/3" x 1/2" * REROLLED END	24"	10 1/2"	0.064"-0.168"				0.064"		0.079"	1/2"	7/8"							

\* See Note 12.

12. All profiles of Spiral Rib Pipe (3/4" x 3/4" ribs at 7 1/2" pitch and 3/4" x 1" ribs at 11 1/2" pitch in both steel and aluminum and 3/4" x 1" ribs at 8 1/2" pitch in steel only) shall be manufactured with rerolled ends. Corrugation profile of the rerolled ends shall be 2 2/3" x 1/2" annual corrugations with a minimum of two full corrugations at each end.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**CORRUGATED METAL PIPE  
COUPLING DETAILS No. 7  
DOWNDRAIN**

NO SCALE

RSP D97G DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN D97G  
DATED MAY 1, 2006 - PAGE 189 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP D97G**

2006 REVISED STANDARD PLAN RSP D97G

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	36	23.3/28.2	53	59

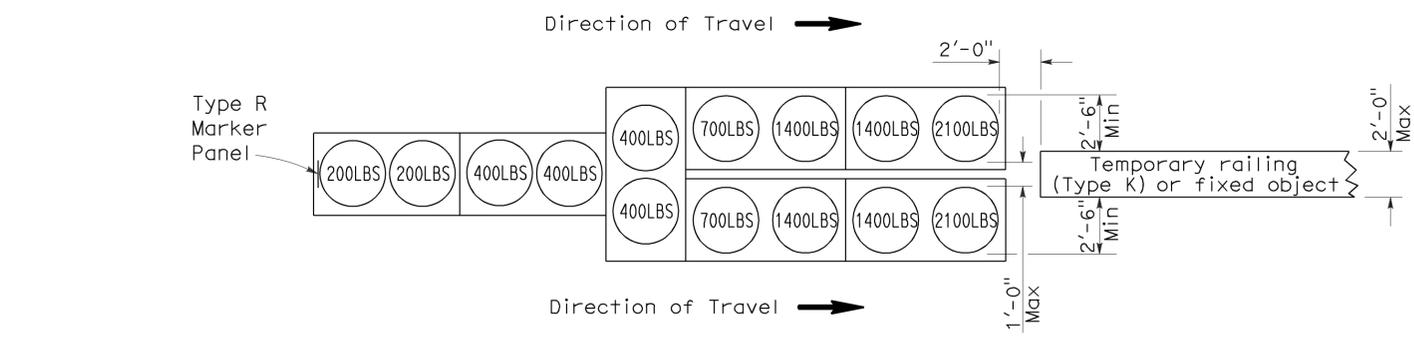
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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

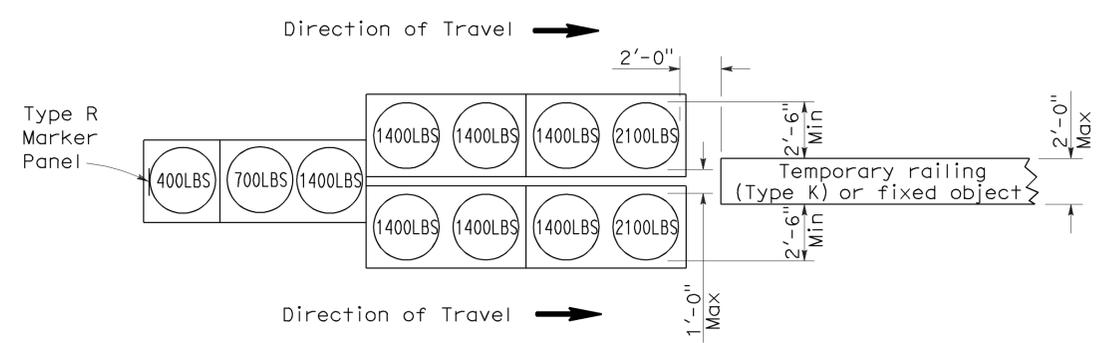
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 5-31-11



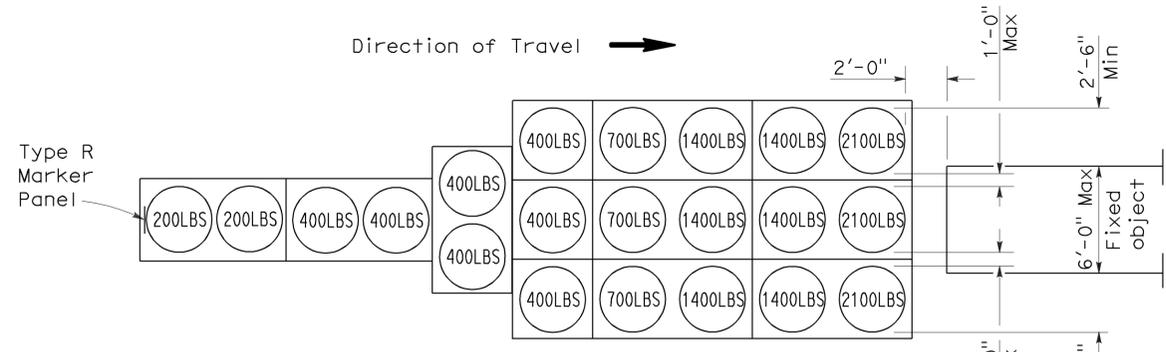
**ARRAY 'TU14'**

Approach speed 45 mph or more



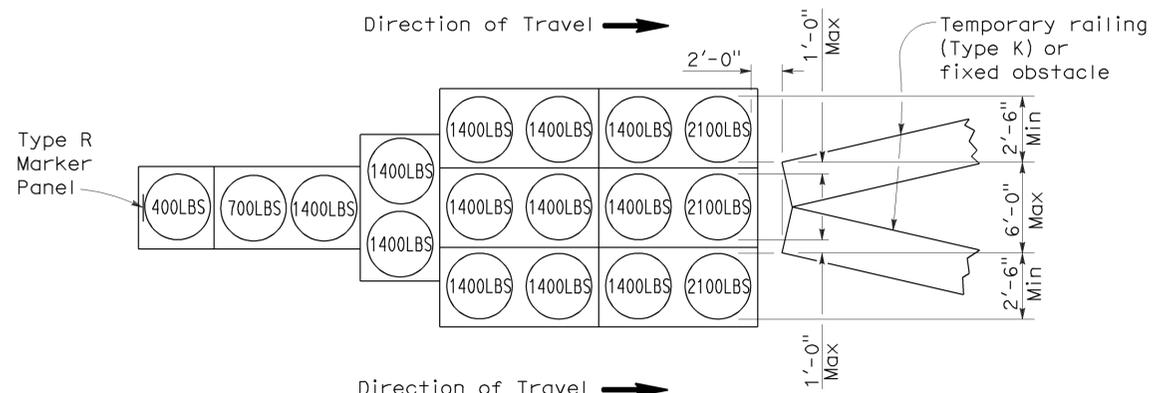
**ARRAY 'TU11'**

Approach speed less than 45 mph



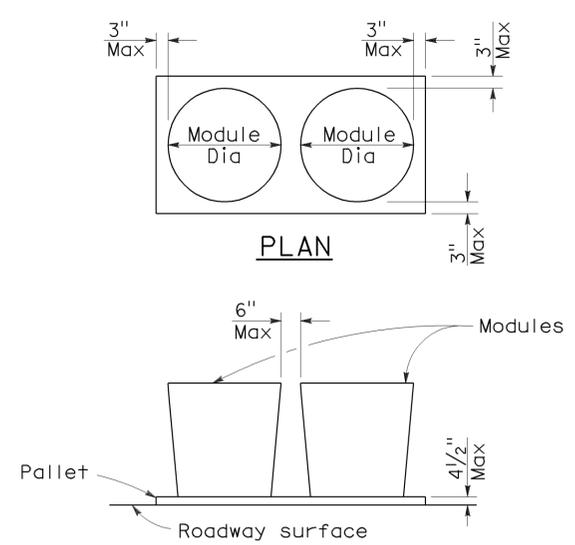
**ARRAY 'TU21'**

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
01	Hum	36	23.3/28.2	54	59

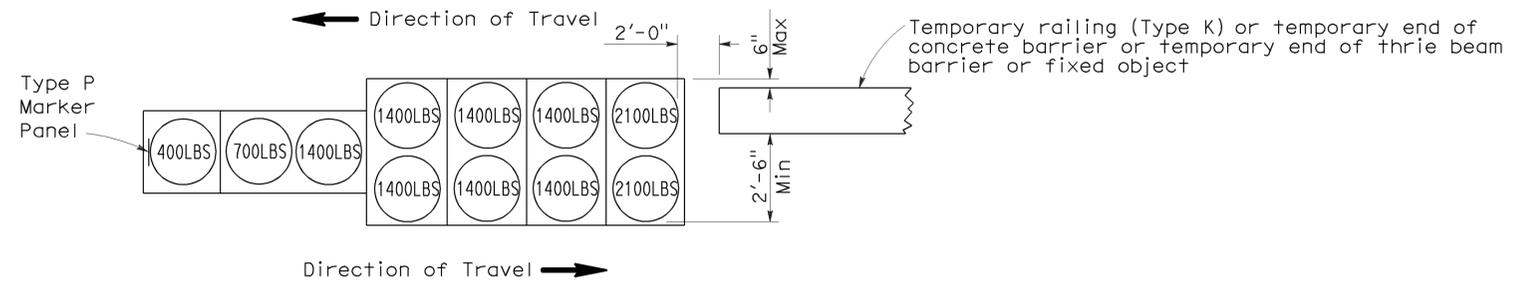
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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

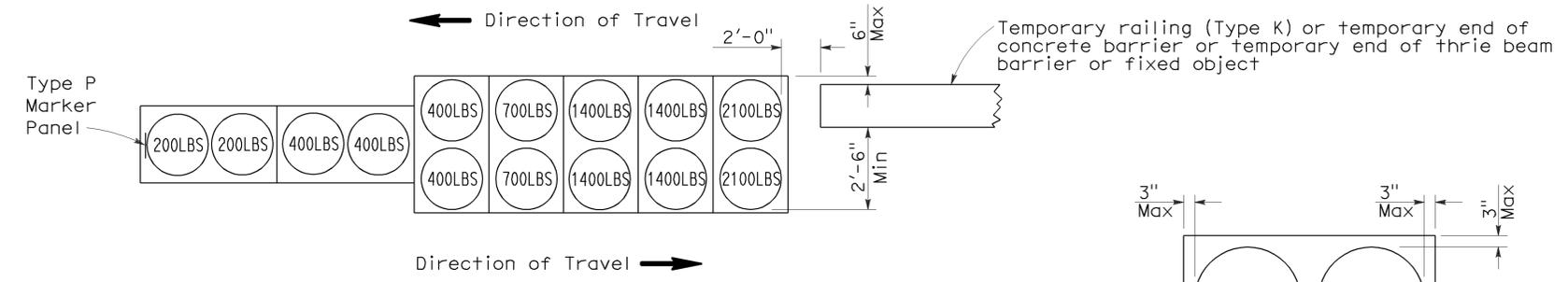
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 5-31-11



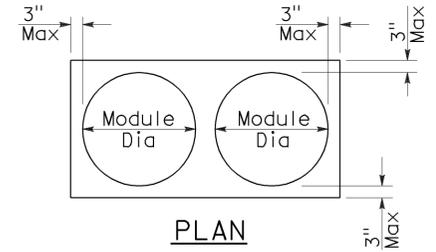
**ARRAY 'TB11'**

Approach speed less than 45 mph

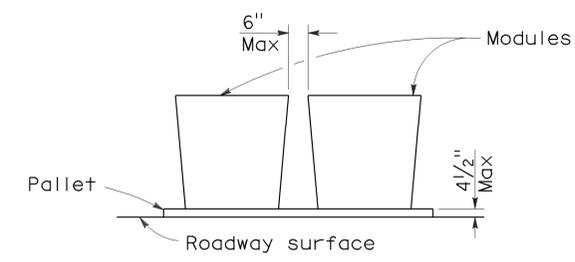


**ARRAY 'TB14'**

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
01	Hum	36	23.3/28.2	55	59

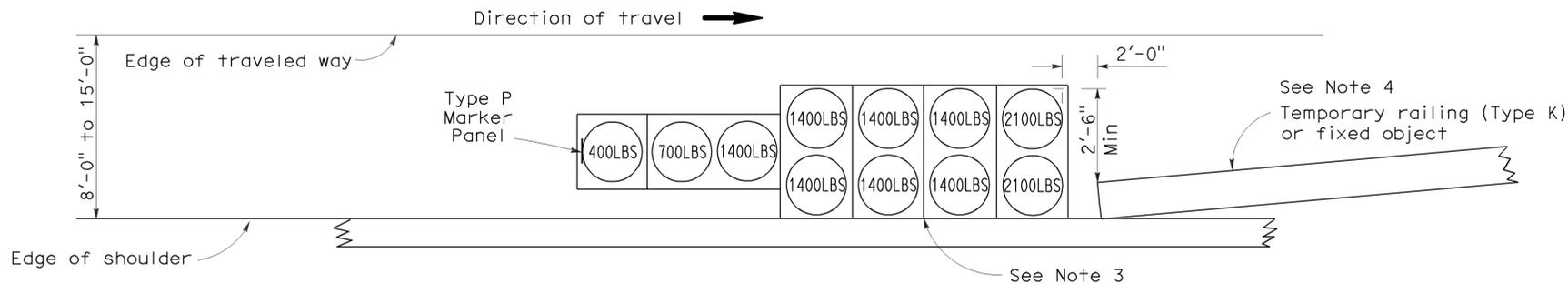
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

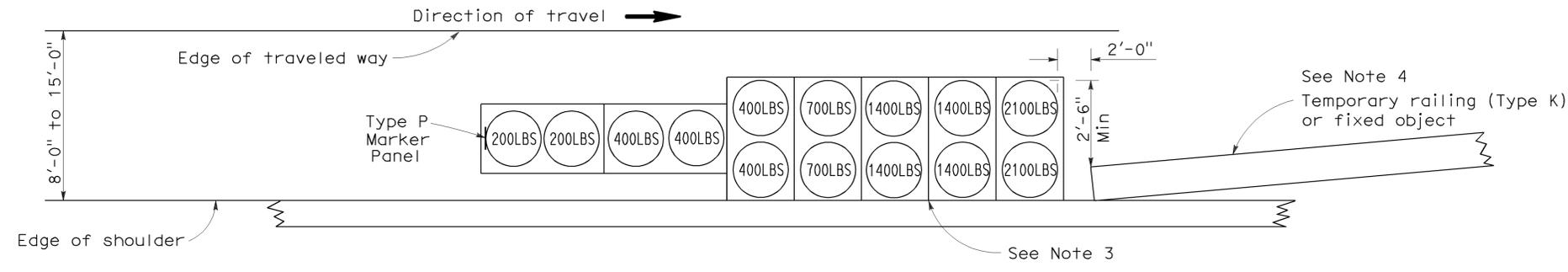
*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

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To accompany plans dated 5-31-11



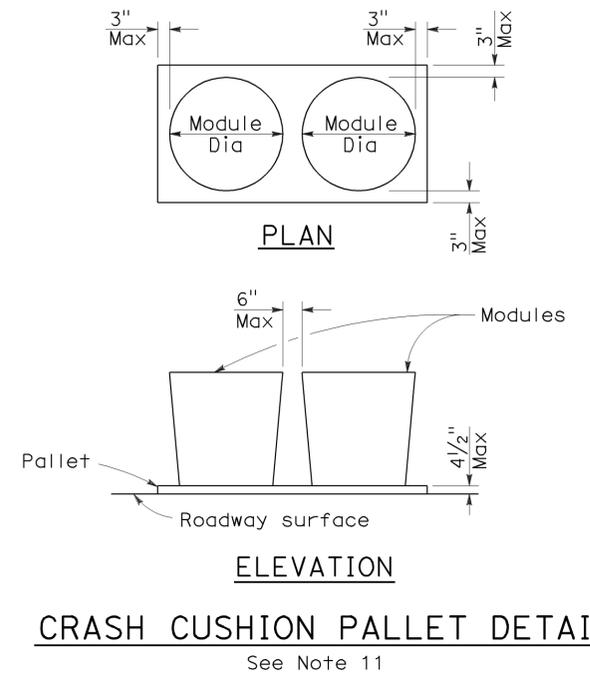
**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



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

**NOTES:**

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



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
01	Hum	36	23.3/28.2	56	59

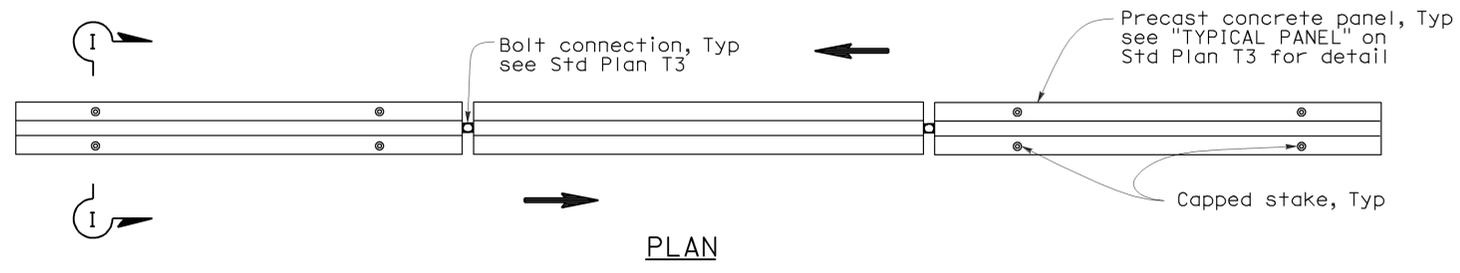
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

May 20, 2011  
PLANS APPROVAL DATE

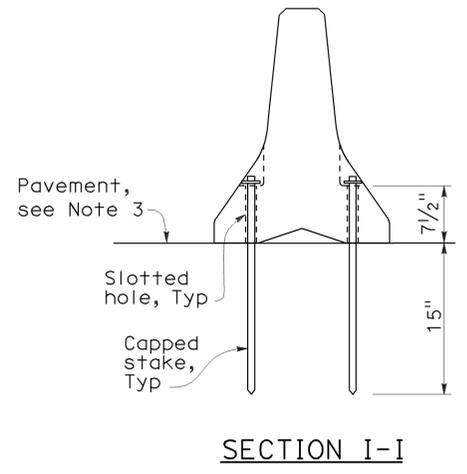
*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-11  
CIVIL  
STATE OF CALIFORNIA

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

To accompany plans dated 5-31-11



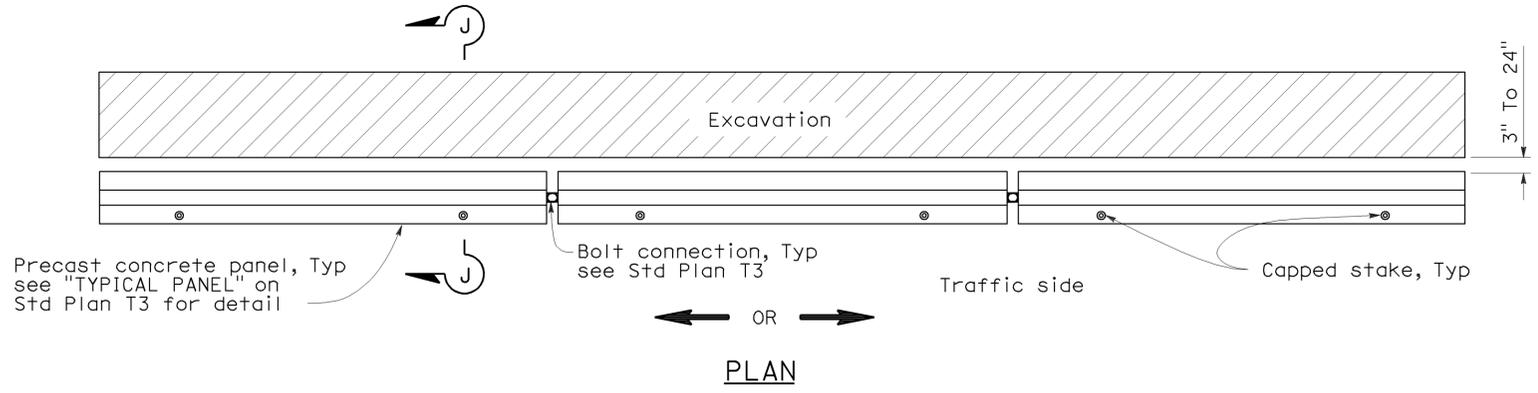
**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**  
See Note 1



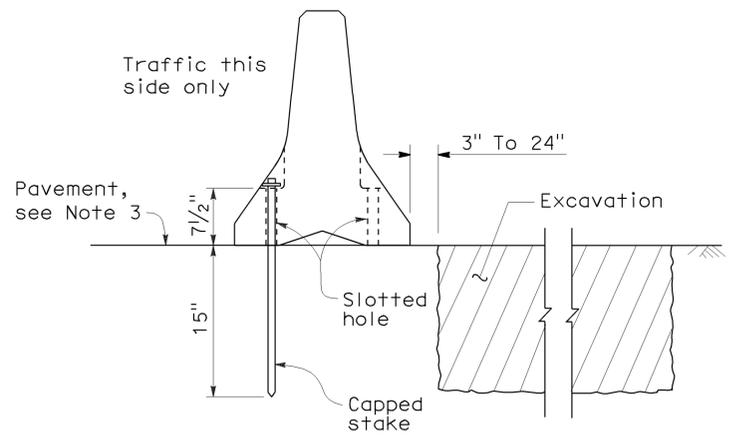
**SECTION I-I**

**NOTES:**

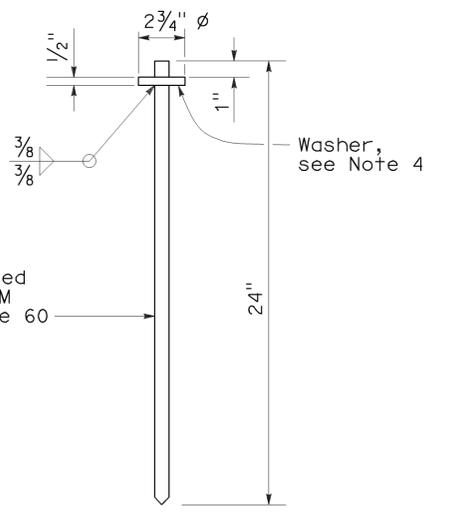
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of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



**RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION**  
See Note 2



**SECTION J-J**



**CAPPED STAKE DETAIL**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY RAILING  
(TYPE K)**  
NO SCALE

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

**NEW STANDARD PLAN NSP T3A**

2006 NEW STANDARD PLAN NSP T3A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	36	23.3/28.2	57	59

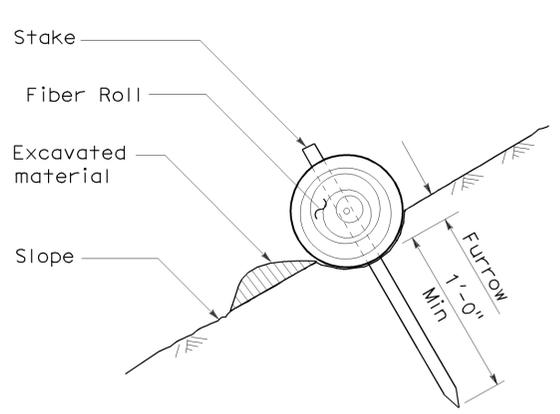
Robert B. Schott  
LICENSED LANDSCAPE ARCHITECT

April 3, 2009  
PLANS APPROVAL DATE

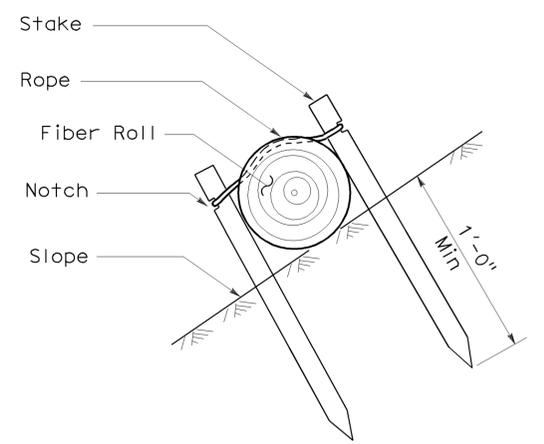
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

STATE OF CALIFORNIA  
LICENSED LANDSCAPE ARCHITECT  
Robert B. Schott  
11-30-10  
RENEWED TERM  
2-25-09  
DATE

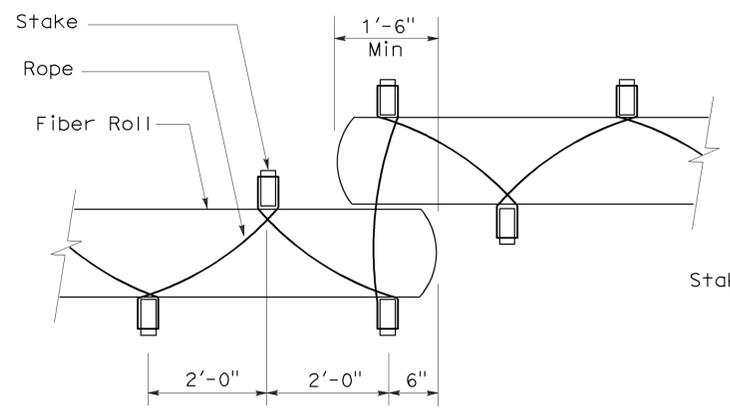
To accompany plans dated 5-31-11



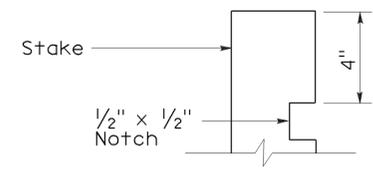
**SECTION**  
**TEMPORARY FIBER ROLL**  
**(TYPE 1)**



**SECTION**  
**TEMPORARY FIBER ROLL**  
**(TYPE 2)**



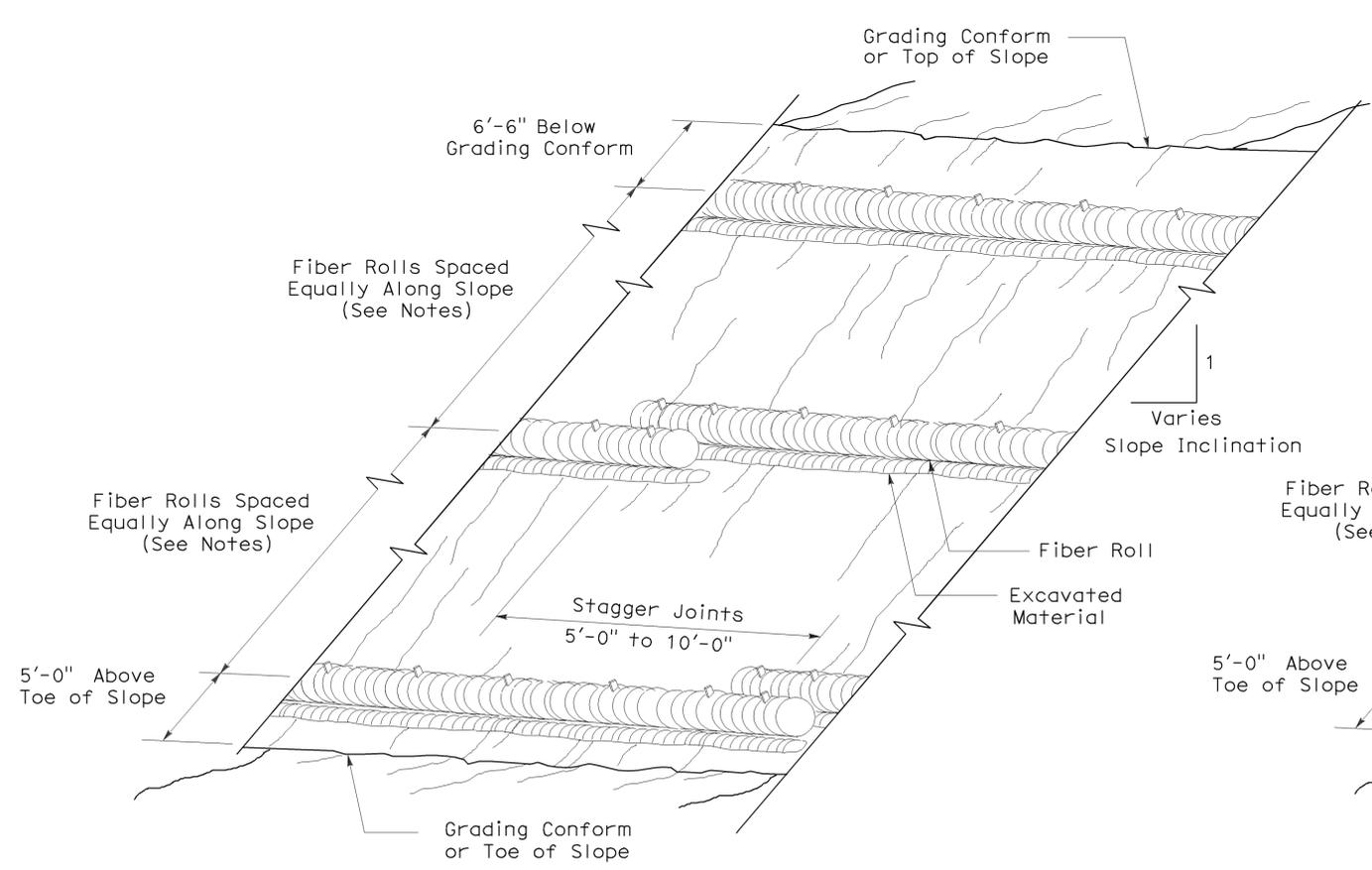
**PLAN**



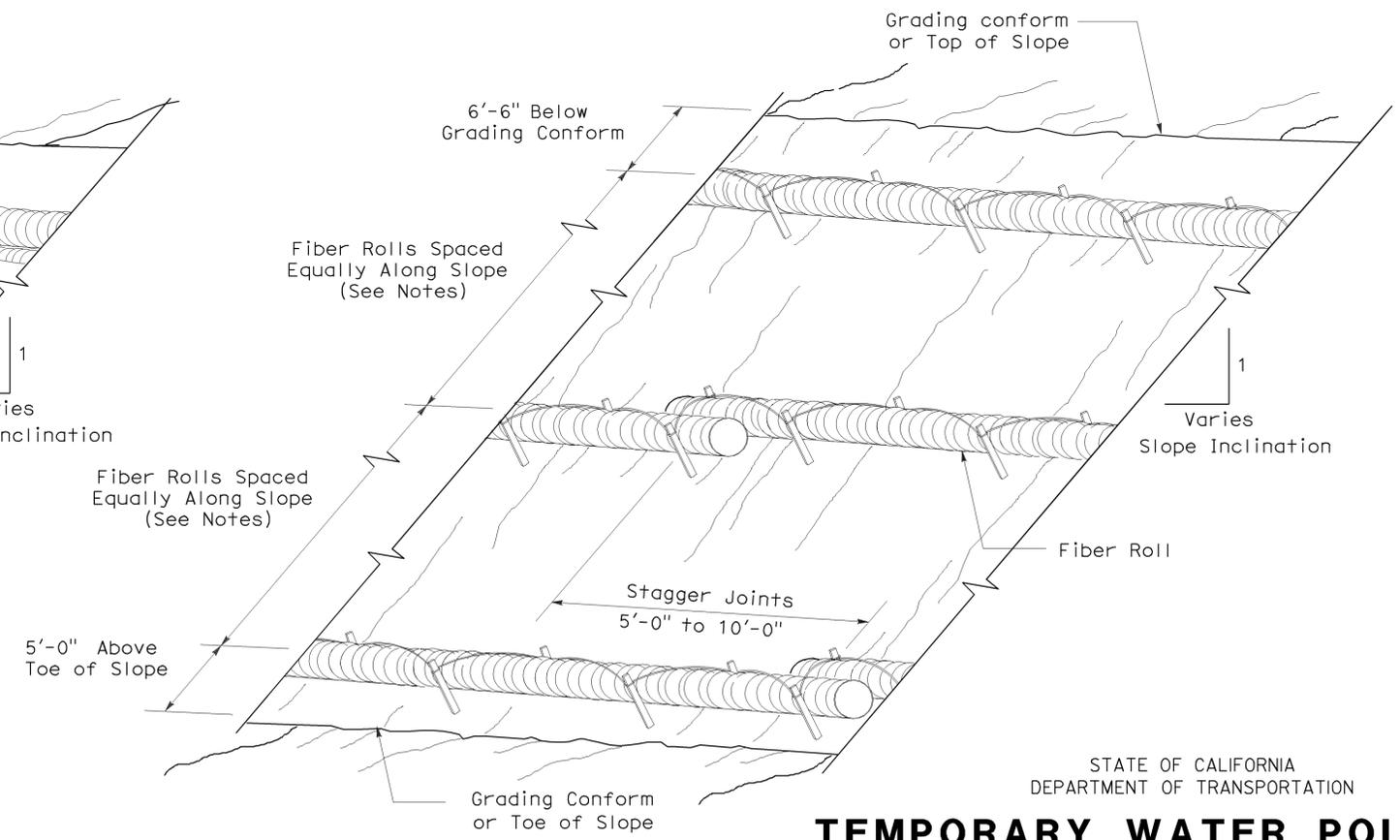
**ELEVATION**  
**STAKE NOTCH DETAIL**

**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)**

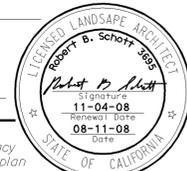
NO SCALE

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**

232

2006 REVISED STANDARD PLAN RSP T56

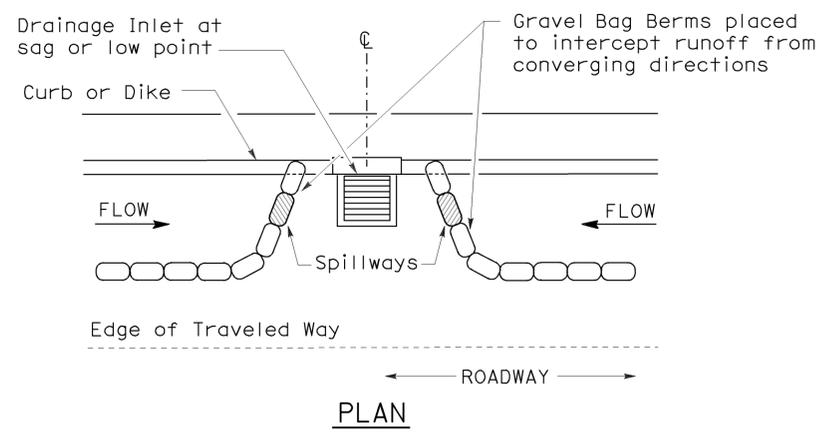


To accompany plans dated 5-31-11

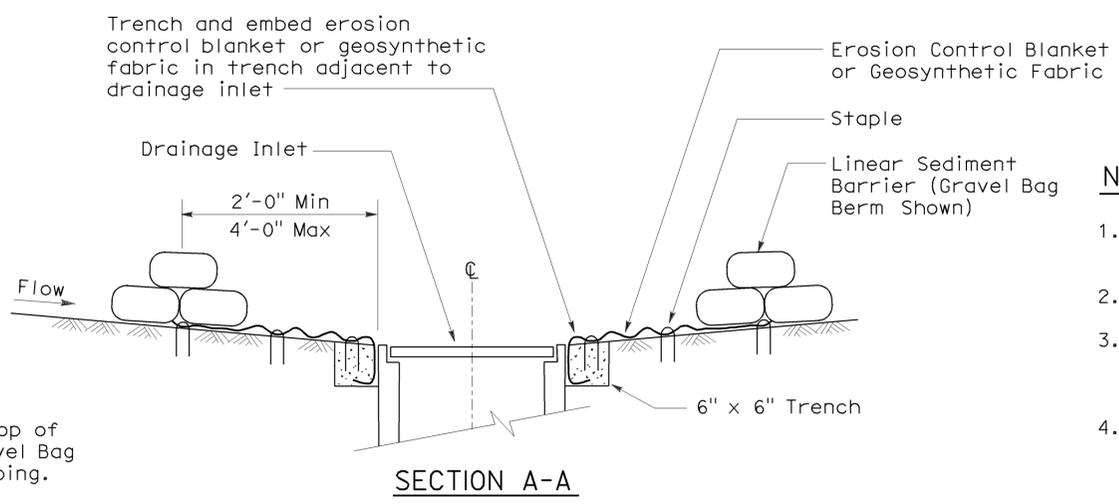
### GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

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

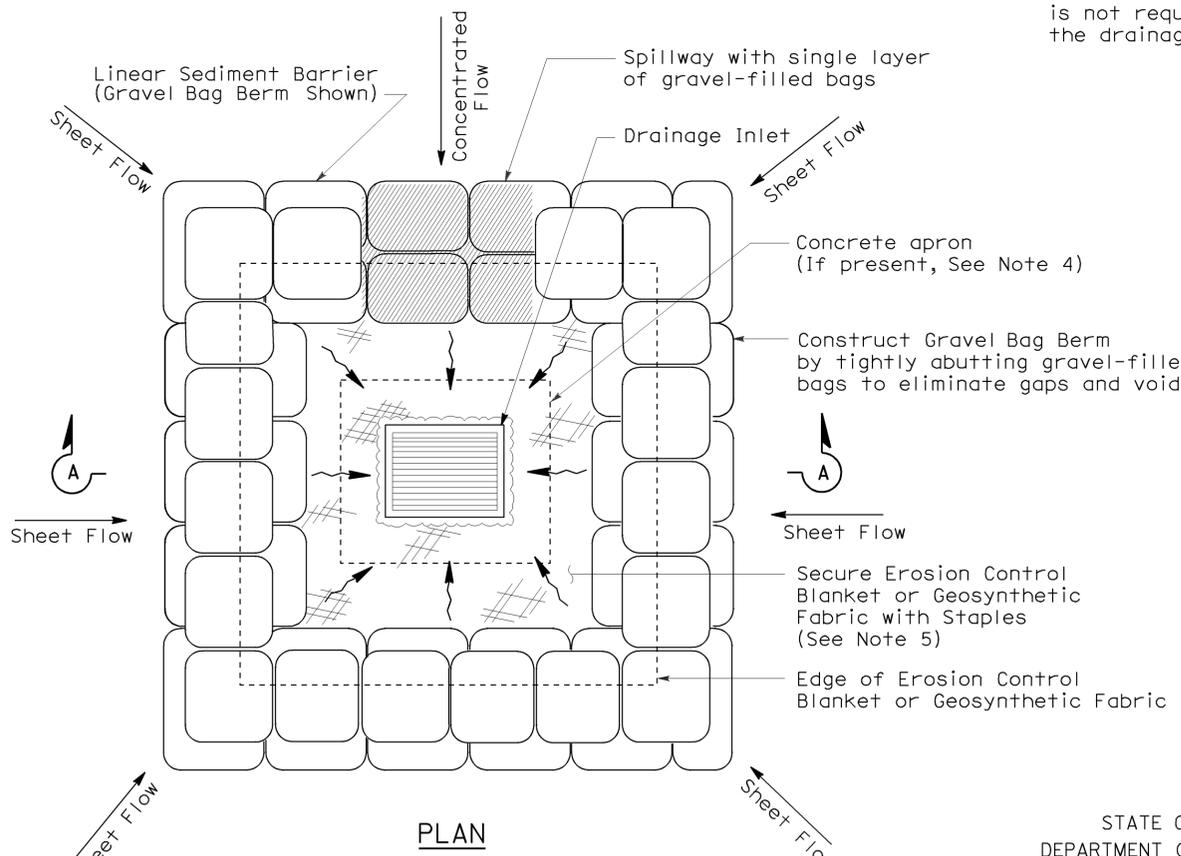
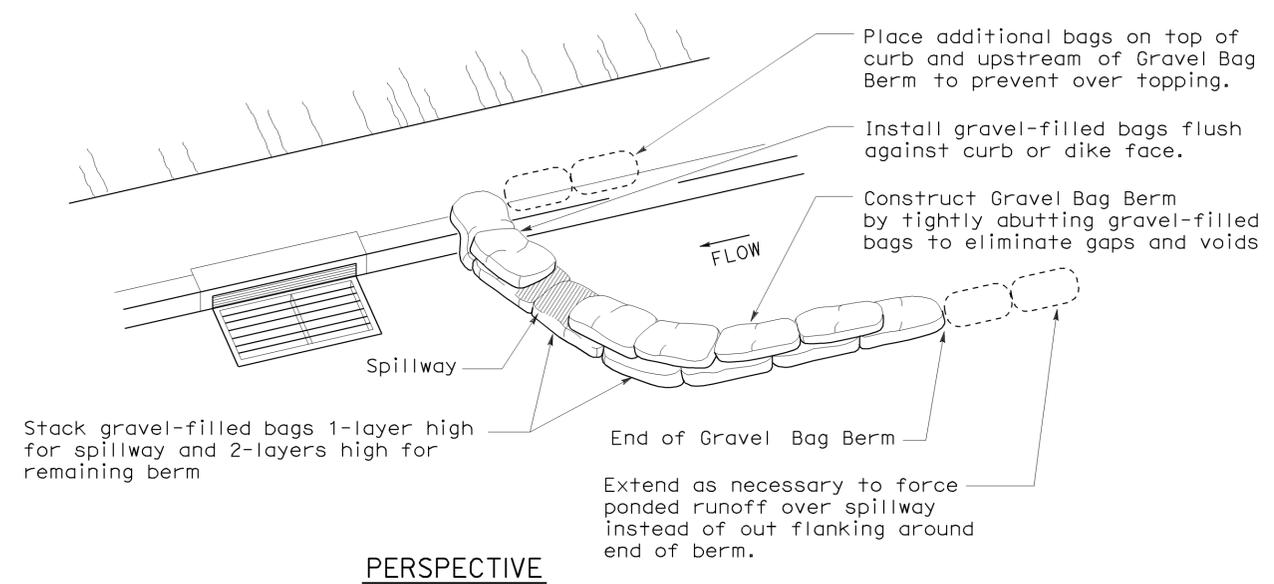


**CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)**

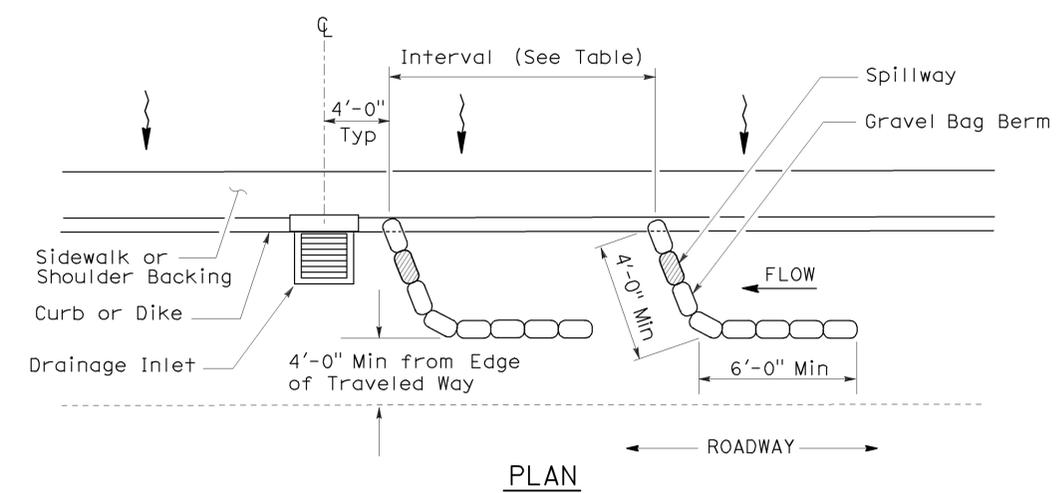
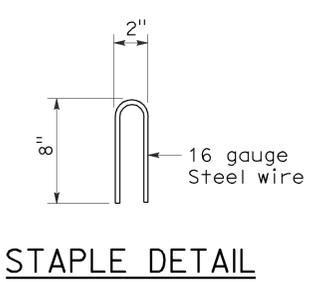


**NOTES:**

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.



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



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

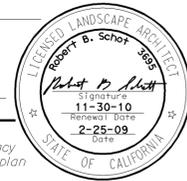
**TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)**

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

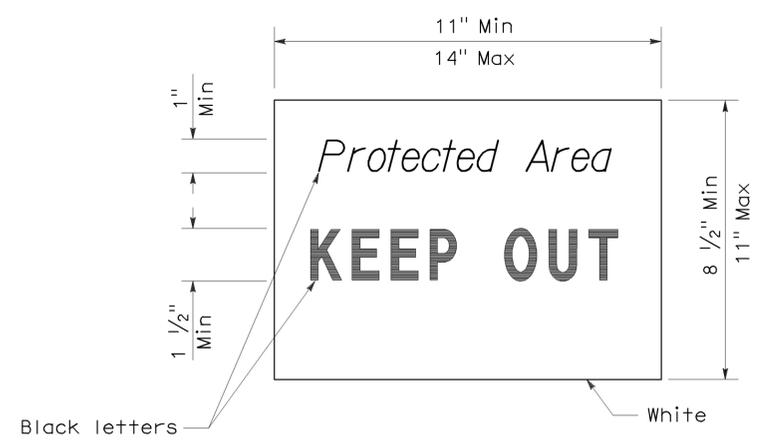
2006 NEW STANDARD PLAN NSP T62

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	36	23.3/28.2	59	59

*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 April 3, 2009  
 PLANS APPROVAL DATE  
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



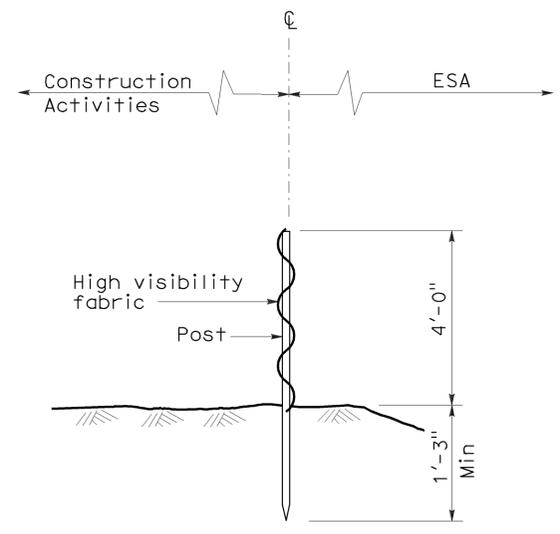
To accompany plans dated 5-31-11



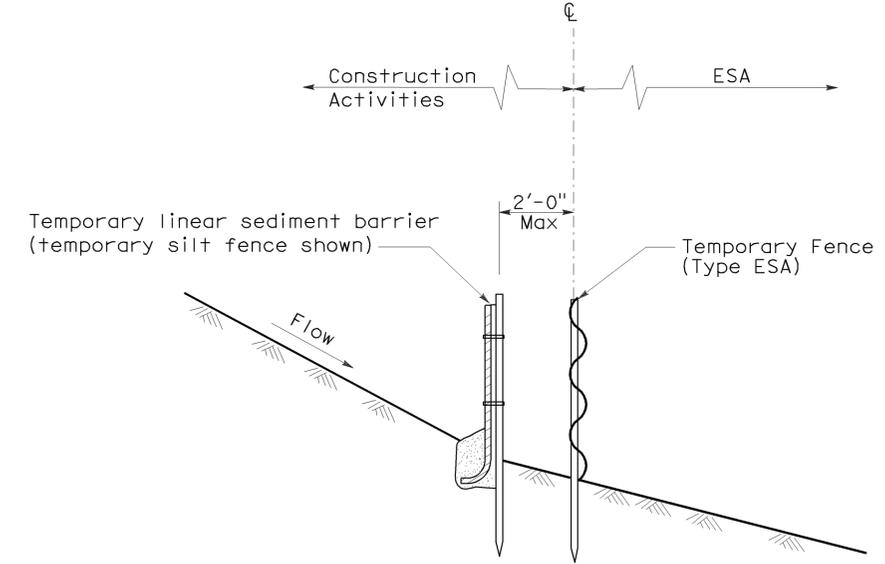
SIGN DETAIL

**NOTE:**

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

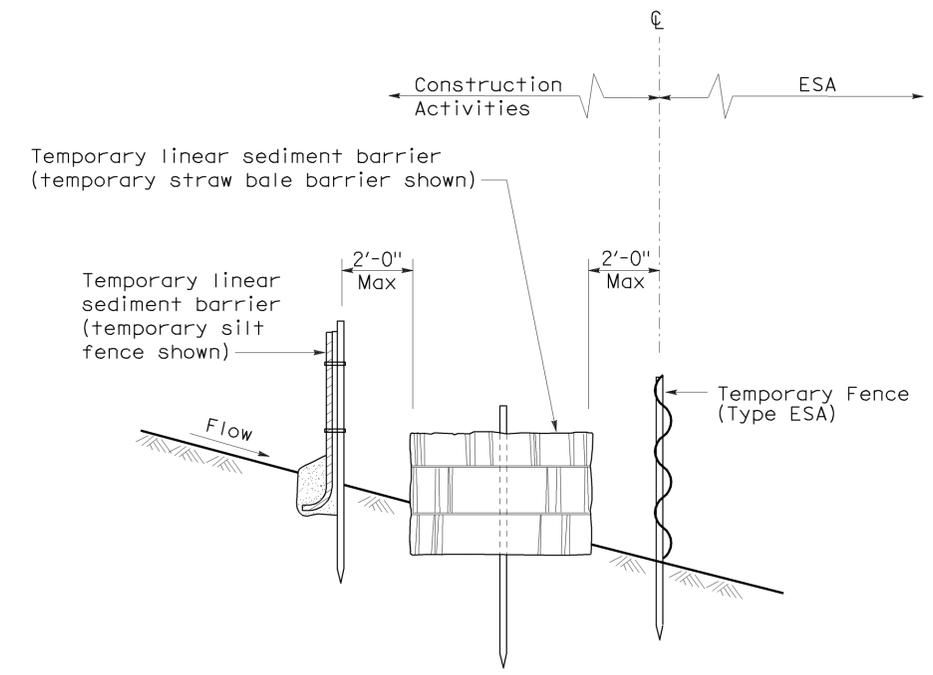


SECTION TEMPORARY FENCE (TYPE ESA)



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

(See Note 1 )



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

(See Note 1 )

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

2006 NEW STANDARD PLAN NSP T65