INDEX OF PLANS

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3	LAYOUTS
4-9	CONSTRUCTION DETAILS
10	CONSTRUCTION AREA SIGNS
11-14	TRAFFIC HANDLING PLANS, DETAILS AND QUANTITIES
15	SUMMARY OF QUANTITIES
16	ELECTRICAL PLAN
17-29	REVISED AND NEW STANDARD PLANS

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

ACHSNH-P199(032)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	1	29

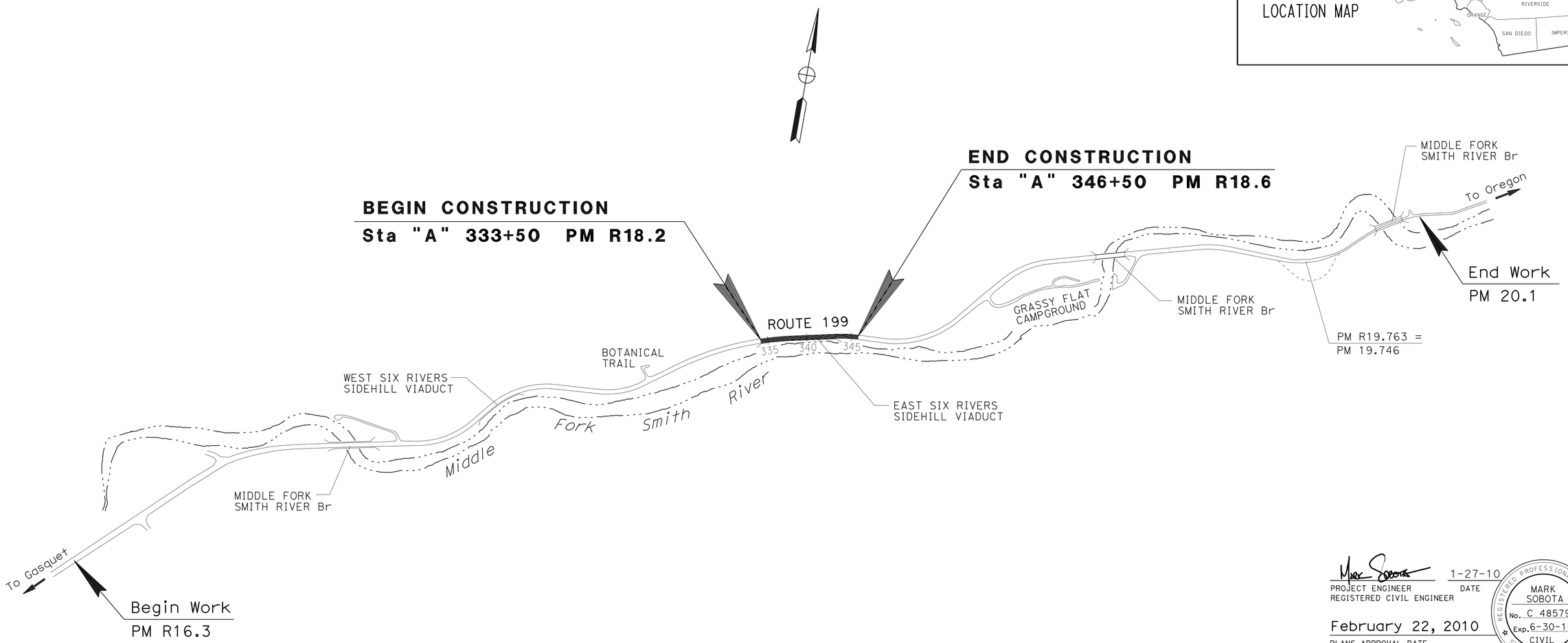
PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN DEL NORTE COUNTY NEAR GASQUET

FROM 0.7 MILE SOUTH TO 0.3 MILE

SOUTH OF GRASSY FLAT CAMPGROUND

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



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

NO SCALE

1-27-10
PROJECT ENGINEER
REGISTERED CIVIL ENGINEER
DATE

MARK SOBOTA
No. C 48579
Exp. 6-30-10
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

February 22, 2010
PLANS APPROVAL DATE

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CONTRACT No. 01-482704

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DESIGN ENGINEER: DENNIS P. McBRIDE
PROJECT MANAGER: KEVIN CHURCH

LAST REVISION: DATE PLOTTED => 13-APR-2010 TIME PLOTTED => 13:39
00-00-00

BORDER LAST REVISED 4/11/2008 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trlenard DGN FILE => 148270ab001.dgn | CU 03 231 | EA 482701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	2	29

Mark Sobota 1-27-10
REGISTERED CIVIL ENGINEER DATE

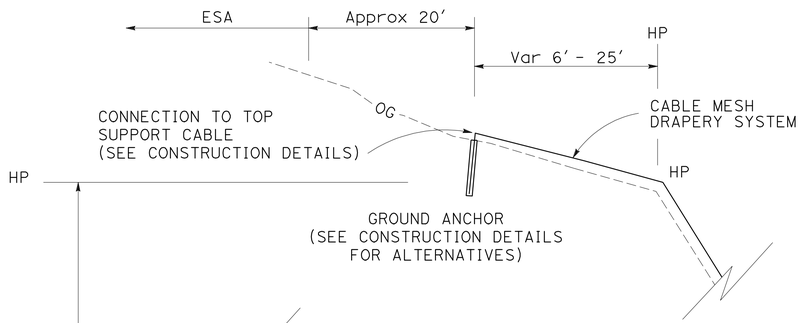
2-22-10
PLANS APPROVAL DATE

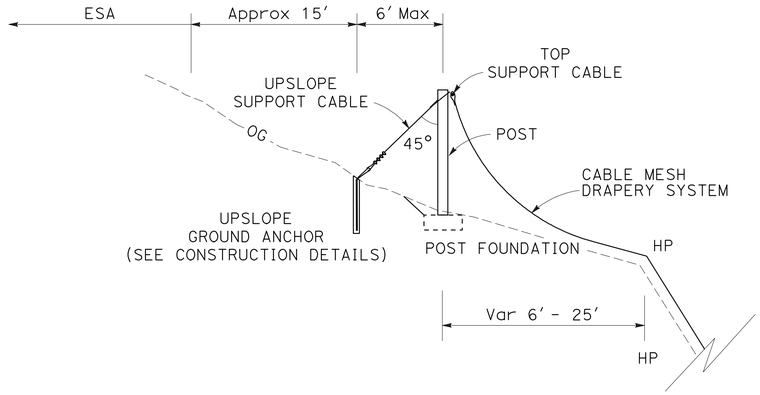
REGISTERED PROFESSIONAL ENGINEER
MARK SOBOTA
No. C 48579
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

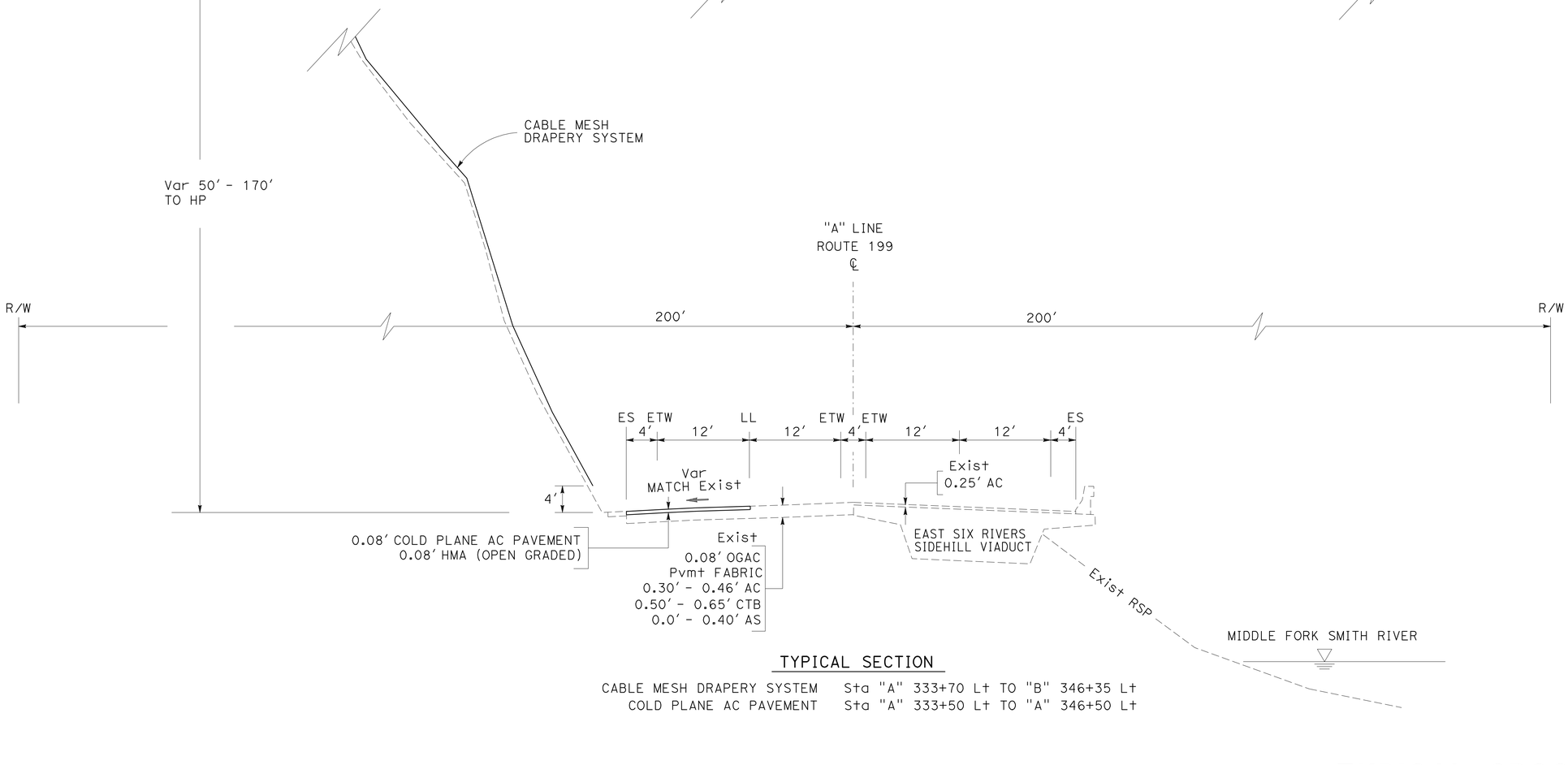
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. ESA LIMITS TO BE IDENTIFIED IN THE FIELD BY STATE.
4. CABLE MESH SYSTEMS CAN BE DIAGONAL OR RECTANGULAR.







TYPICAL SECTION

CABLE MESH DRAPERY SYSTEM Sta "A" 333+70 Lt TO "B" 346+35 Lt
COLD PLANE AC PAVEMENT Sta "A" 333+50 Lt TO "A" 346+50 Lt

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY | DATE REVISED
MARK SOBOTA | CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
DENNIS P. McBRIDE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans®

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LAST REVISION | DATE PLOTTED => 23-FEB-2010
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trlenard
DGN FILE => 148270ca001.dgn
CU 03 231
EA 482701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	3	29

REGISTERED CIVIL ENGINEER — 1-27-10 DATE

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK SOBOTA — No. C 48579 — Exp. 6-30-10 — CIVIL — STATE OF CALIFORNIA

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

NOTES:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. GROUND ANCHOR AND POST FOUNDATION LOCATIONS TO BE STAKED IN THE FIELD BY STATE FORCES.
3. UPSLOPE GROUND ANCHORS FOR POST #18, #19 AND #20 ARE IN ROCK. GROUND ANCHOR #21 IS IN ROCK. ALL OTHER UPSLOPE GROUND ANCHORS AND GROUND ANCHORS ARE IN SOIL.
4. ALL LATERAL GROUND ANCHORS ARE IN SOIL.

LEGEND:

= COLD PLANE AC PAVEMENT

= CABLE MESH DRAPERY SYSTEM

△ # = GROUND ANCHOR LOCATION/NUMBER

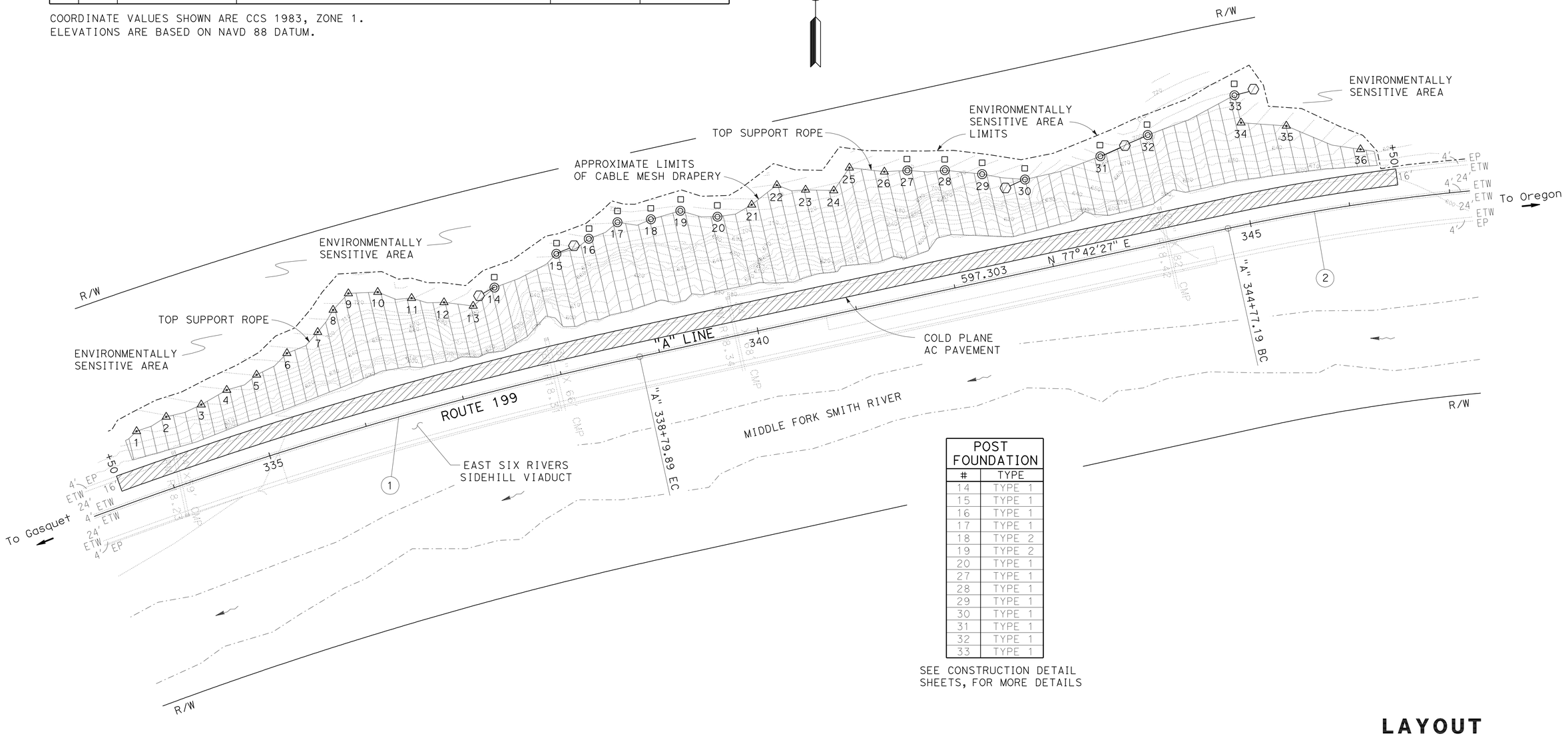
◎ # = POST LOCATION/NUMBER

□ = UPSLOPE GROUND ANCHOR FOR POST

⬡— = LATERAL GROUND ANCHOR FOR POST

#	LINE	STATION	CURVE OR TANGENT DATA	COORDINATES NORTH	COORDINATES EAST
1	A	322+01.56 BC	R=4000 Δ=24°02'25" T=851.695 L=1678.326	2563057.6688	6042395.8334
	A	338+79.89 EC	N 77°42'27" E 597.303	2563743.6042	6043914.1185
2	A	344+77.19 BC	R=2000 Δ=10°06'38" T=176.922 L=352.926	2563870.7717	6044497.7278
	A	348+30.12 EC		2563915.1749	6044847.3882

COORDINATE VALUES SHOWN ARE CCS 1983, ZONE 1.
ELEVATIONS ARE BASED ON NAVD 88 DATUM.



POST FOUNDATION #	TYPE
14	TYPE 1
15	TYPE 1
16	TYPE 1
17	TYPE 1
18	TYPE 2
19	TYPE 2
20	TYPE 1
27	TYPE 1
28	TYPE 1
29	TYPE 1
30	TYPE 1
31	TYPE 1
32	TYPE 1
33	TYPE 1

SEE CONSTRUCTION DETAIL SHEETS, FOR MORE DETAILS

LAYOUT

SCALE: 1" = 50'

L-1

REVISED BY | DATE REVISED
MARK SOBOTA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: DENNIS P. McBRIDE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
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BORDER LAST REVISED 4/11/2008

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USERNAME => trienard
DGN FILE => 148270ea001.dgn

CU 03 231

EA 482701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	4	29

REGISTERED CIVIL ENGINEER — 1-27-10 DATE

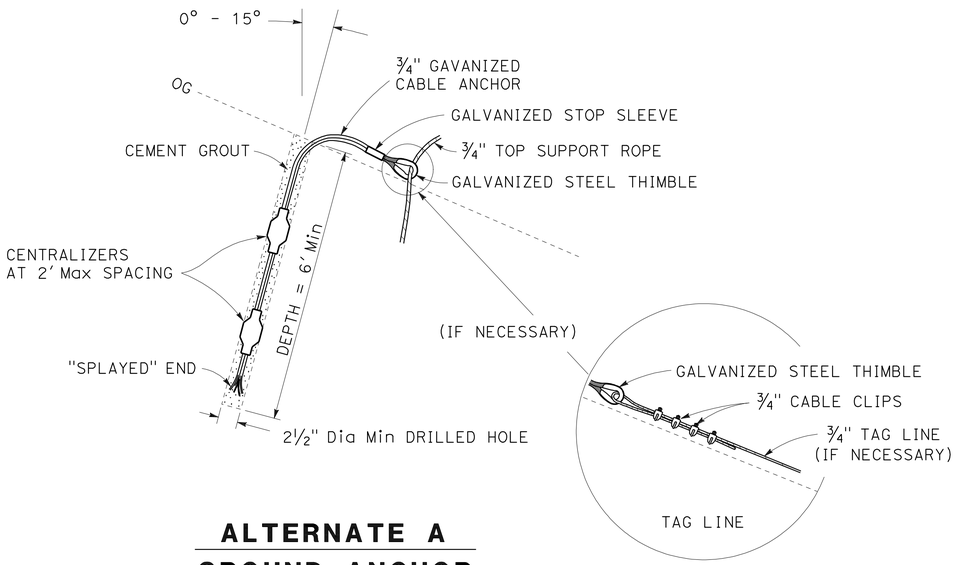
2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK SOBOTA — No. C 48579 — Exp. 6-30-10 — CIVIL — STATE OF CALIFORNIA

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

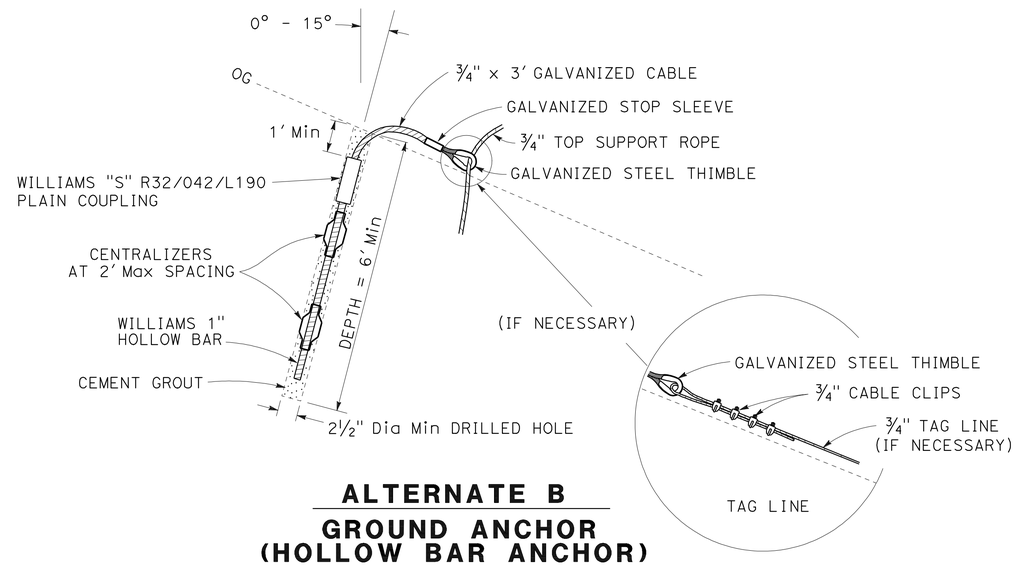
NOTES:

1. EXACT LOCATION OF ANCHORS TO BE DETERMINED BY THE ENGINEER.
2. ALLOWABLE DESIGN LOAD OF CABLE MESH DRAPERY SYSTEM ANCHORS SHALL BE 5 TONS.
3. TAG LINES ARE USED TO CONNECT THE TOP SUPPORT ROPE TO AN ALTERNATE, MORE SUITABLE, GROUND ANCHOR LOCATION, AS DETERMINED BY THE ENGINEER.
4. TOP SUPPORT ROPE CAN BE RUN THOUGH THE THIMBLE, BUT THE LENGTH OF THE SUPPORT ROPE SHOULD BE A MINIMUM OF 100 FEET AND A MAXIMUM OF 200 FEET.
5. AT THE TERMINUS, THE TOP SUPPORT SHOULD BE CONNECTED TO THE THIMBLE WITH CABLE CLIPS, AS SHOWN IN DETAIL "AA" ON SHEET C-4.



ALTERNATE A

GROUND ANCHOR (CABLE ANCHOR)



ALTERNATE B

GROUND ANCHOR (HOLLOW BAR ANCHOR)

CONSTRUCTION DETAILS

NO SCALE — **C-1**

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CALCULATED-DESIGNED BY: MARK SOBOTA
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	5	29

REGISTERED CIVIL ENGINEER — 1-27-10 DATE

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK SOBOTA — No. C 48579 — Exp. 6-30-10 — CIVIL — STATE OF CALIFORNIA

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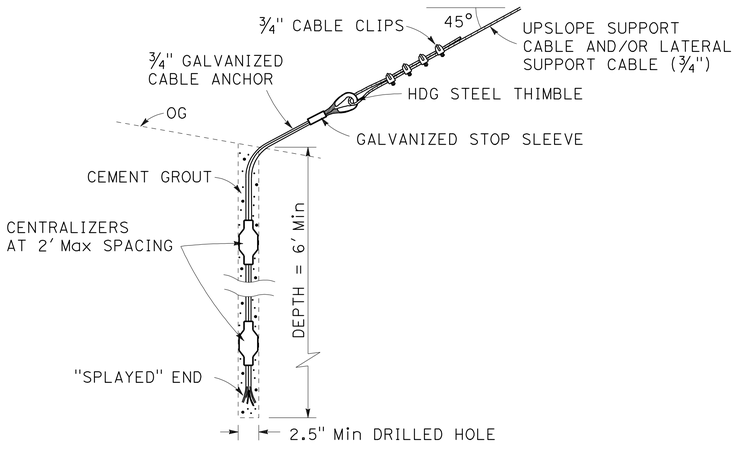
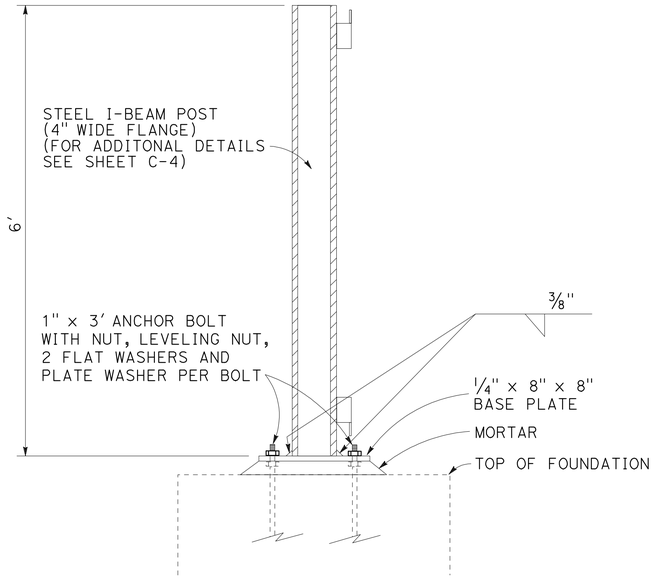
NOTE:

POST FOUNDATION DETAILS AS SHOWN OR AS DIRECTED BY THE ENGINEER.

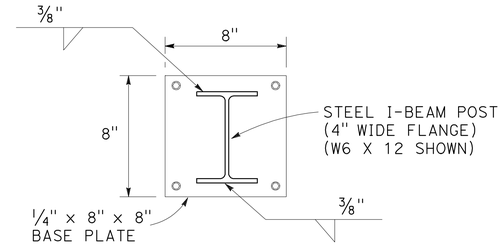


UPSLOPE & LATERAL GROUND ANCHOR

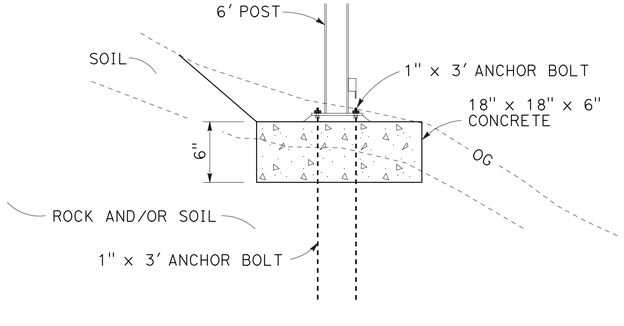
(FOR POSTS)



POST & POST FOUNDATION



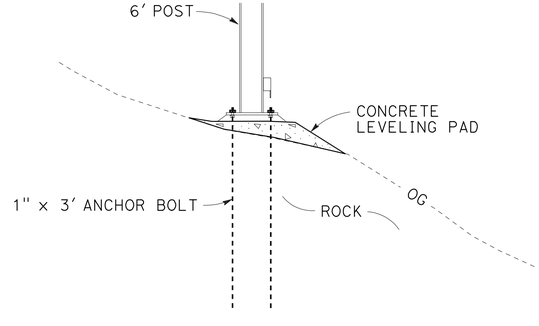
BASE PLATE



TYPE 1 - POST FOUNDATION

FOUNDATION IN SOIL AND/OR
FOUNDATION IN SOIL OVER BEDROCK

POST ANCHOR FOUNDATION	
#	TYPE
14	TYPE 1
15	TYPE 1
16	TYPE 1
17	TYPE 1
18	TYPE 2
19	TYPE 2
20	TYPE 1
27	TYPE 1
28	TYPE 1
29	TYPE 1
30	TYPE 1
31	TYPE 1
32	TYPE 1
33	TYPE 1



TYPE 2 - POST FOUNDATION

FOUNDATION IN ROCK

CONSTRUCTION DETAILS

NO SCALE

C-2

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DGN FILE => 148270ga002.dgn

CU 03 231

EA 482701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	6	29

Mark Sobota 1-27-10
REGISTERED CIVIL ENGINEER DATE

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK SOBOTA
No. C 48579
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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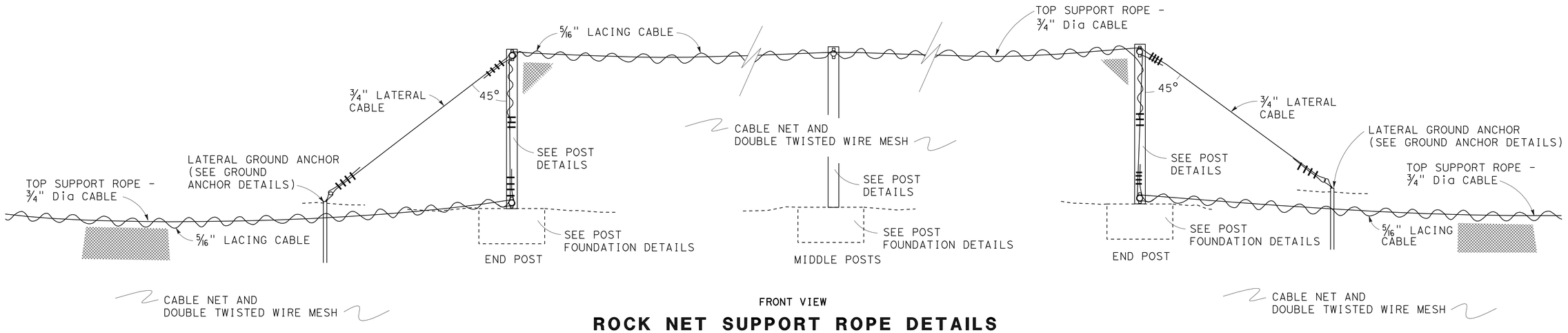
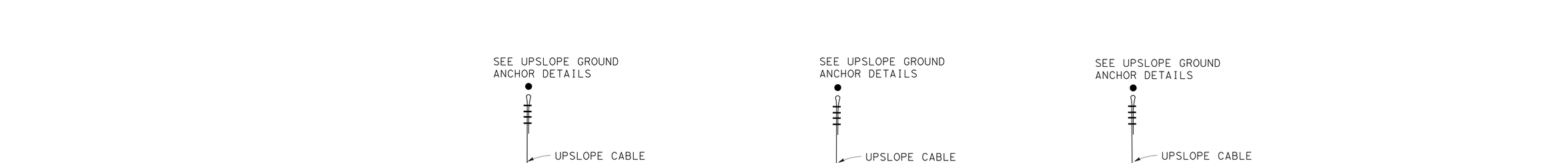
NOTES:

1. GROUND ANCHOR AND POST FOUNDATION LOCATIONS TO BE STAKED IN THE FIELD BY STATE FORCES.
2. ANCHOR PULL OUT STRENGTH = 5 TONS.
3. LATERAL CABLE, UPSLOPE CABLE AND SUPPORT ROPE SHALL BE SEPARATE, INDEPENDENT CABLES.
4. TOP SUPPORT ROPE CONTINUOUS TO THE BOTTOM OF THE END POSTS.
5. CABLE NET DRAPERY LIMITS TO BE LAID OUT BY STATE FORCES.
6. CABLE MESH SHALL BE ATTACHED TO THE TO THE TOP SUPPORT ROPE ON THE GROUND OR SUSPENDED BY WEAVING A 5/16" CABLE THROUGH EACH OPENING IN THE CABLE MESH ALONG THE MESH BORDER ROPE AND AROUND THE TOP SUPPORT ROPE.
7. AVAILABLE CABLE MESH SYSTEMS CAN BE DIAGONAL OR RECTANGULAR.



FRONT VIEW

ROCK NET SUPPORT ROPE DETAILS



PLAN VIEW

ROCK NET SUPPORT ROPE DETAILS

CONSTRUCTION DETAILS

NO SCALE

C-3

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CU 03 231
EA 482701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	7	29

REGISTERED CIVIL ENGINEER — 1-27-10 DATE

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK SOBOTA — No. C 48579 — Exp. 6-30-10 — CIVIL — STATE OF CALIFORNIA

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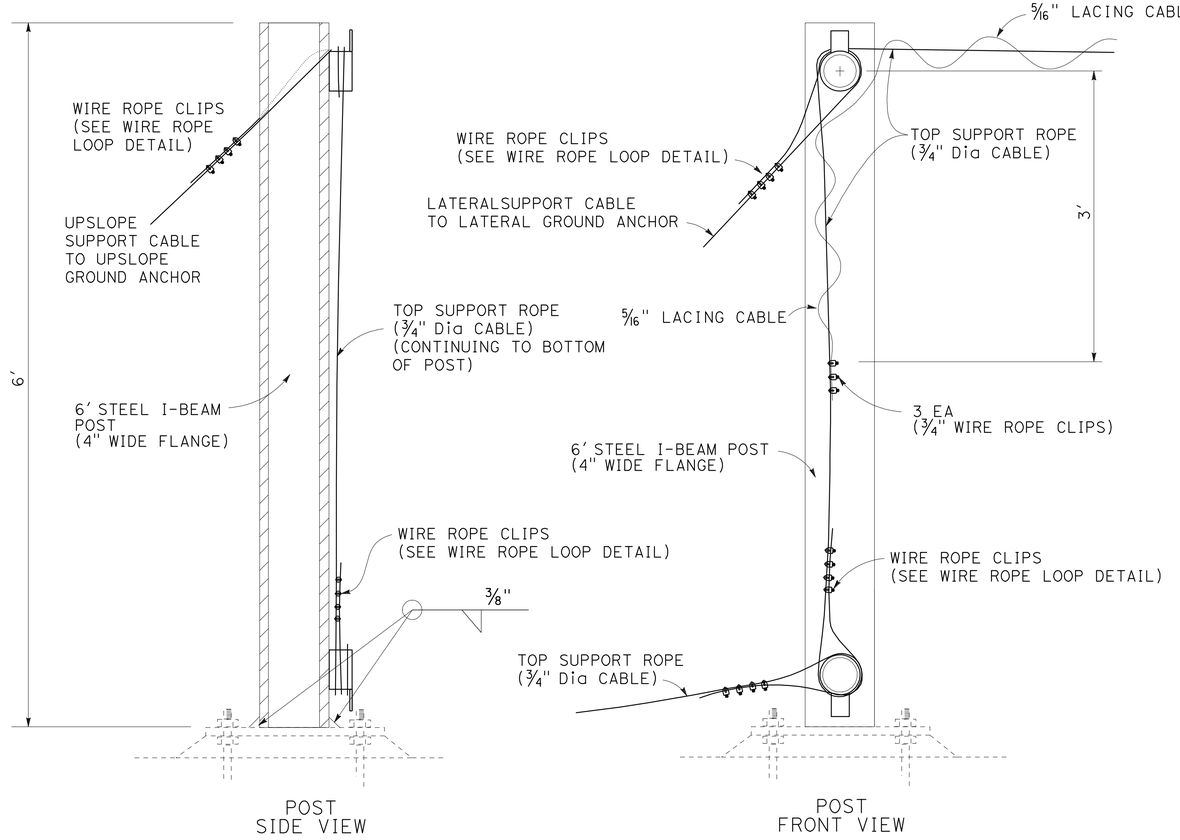
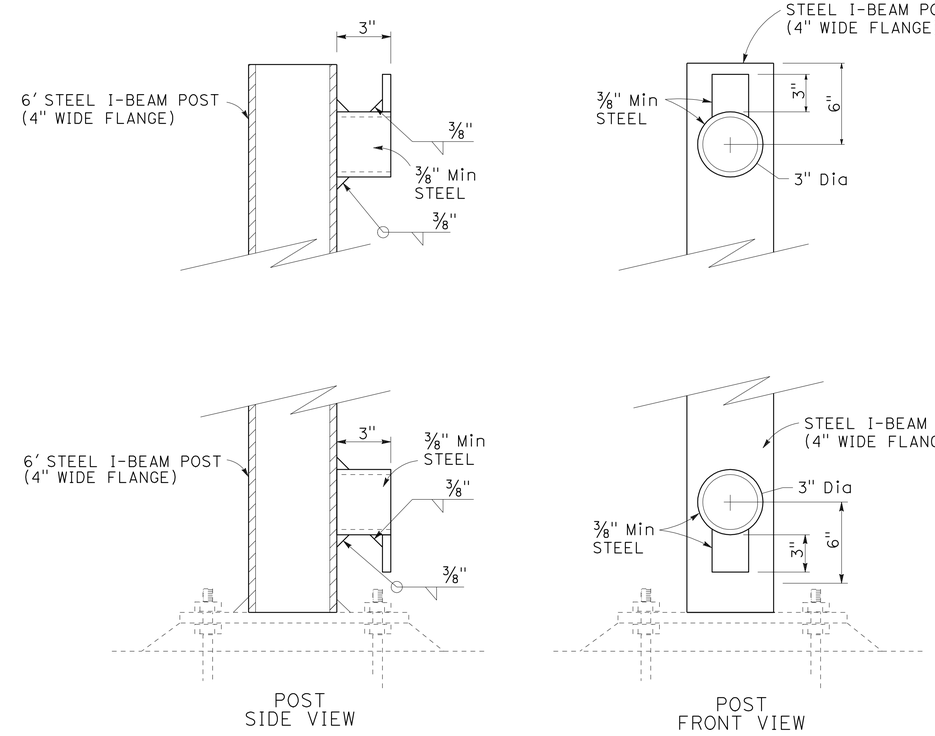


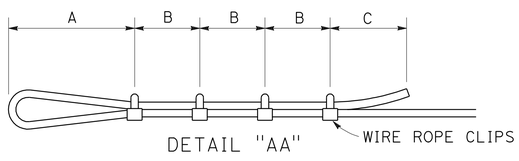
POST CONNECTION DETAILS



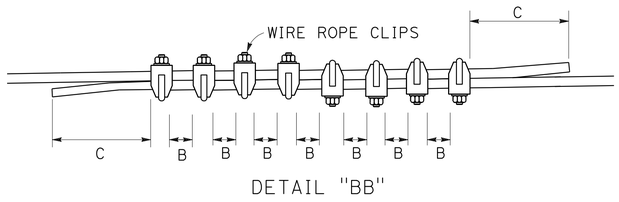
TOP AND BOTTOM POST CONNECTION DETAIL

WIRE ROPE LOOPS AND SPLICES

ROPE DIAMETER	WIRE ROPE CLIP SIZE	WIRE ROPE CLIP QUANTITY		A	B	C	TORQUE REQUIRED
INCHES		DETAIL AA	DETAIL BB	INCHES			FT-LBS
5/16	5/16	3	6	5	5	5	30
1/2	1/2	4	8	7	7	7	65
5/8	5/8	4	8	9	9	9	95
3/4	3/4	5	10	11	11	11	130



WIRE ROPE LOOP DETAIL



WIRE ROPE SPLICE DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-4

REVISED BY | DATE REVISED

MARK SOBOTA

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: DENNIS P. McBRIDE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

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USERNAME => trlenard
DGN FILE => 148270ga004.dgn

CU 03 231

EA 482701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	8	29

REGISTERED CIVIL ENGINEER — 1-27-10 DATE

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK SOBOTA — No. C 48579 — Exp. 6-30-10 — CIVIL — STATE OF CALIFORNIA

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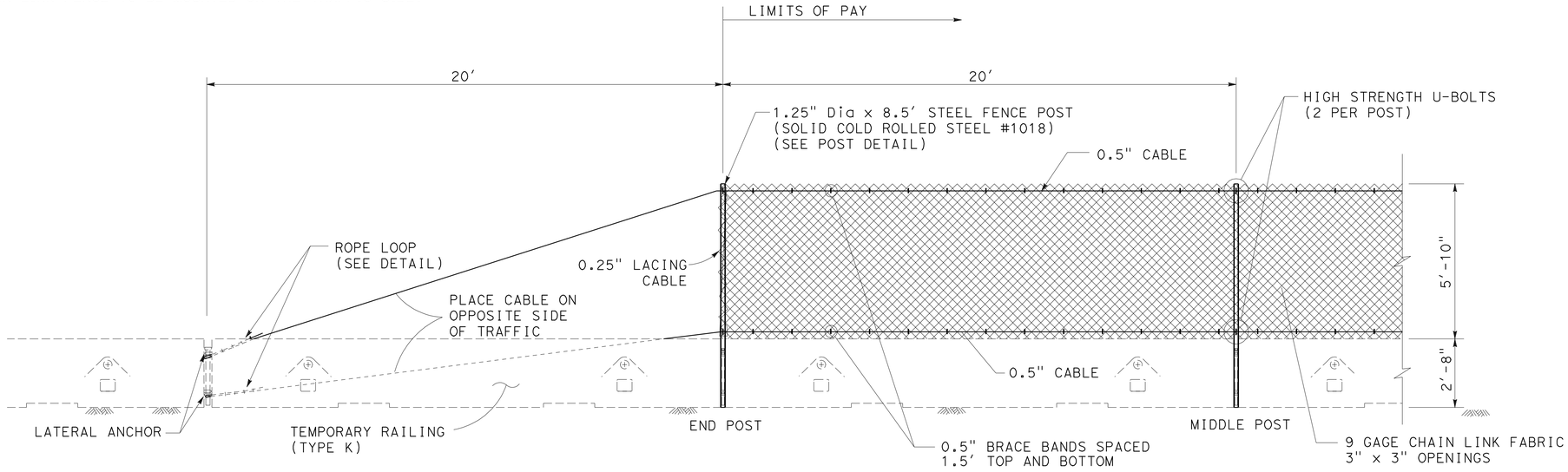
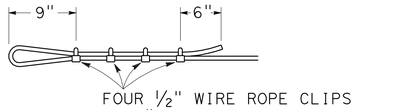
NOTE:

CHAIN LINK FENCE TO BE MOUNTED ON THE TRAFFIC SIDE.



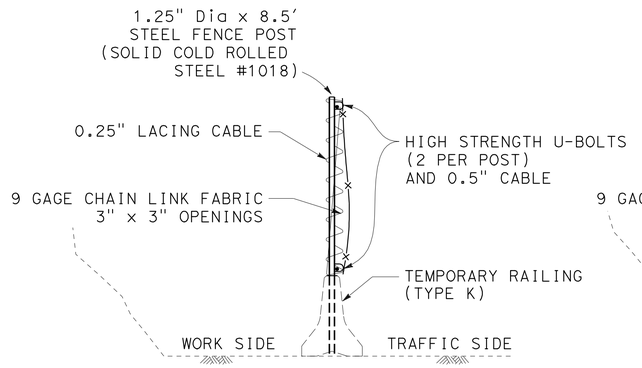
CHAIN LINK FENCE (ROCK BARRIER)

ELEVATION

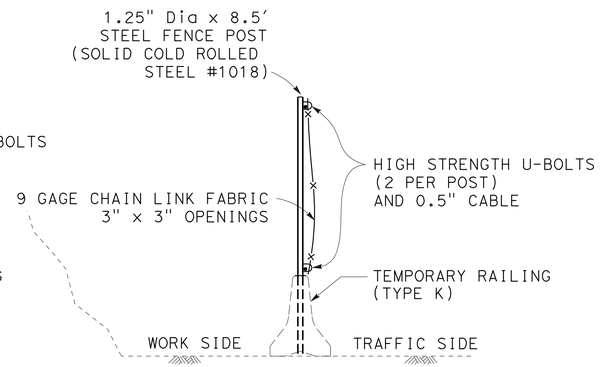


FOUR ½" WIRE ROPE CLIPS
AT 4" SPACING,
TIGHTEN TO 3.3 FT-LBS TORQUE

ROPE LOOP DETAIL

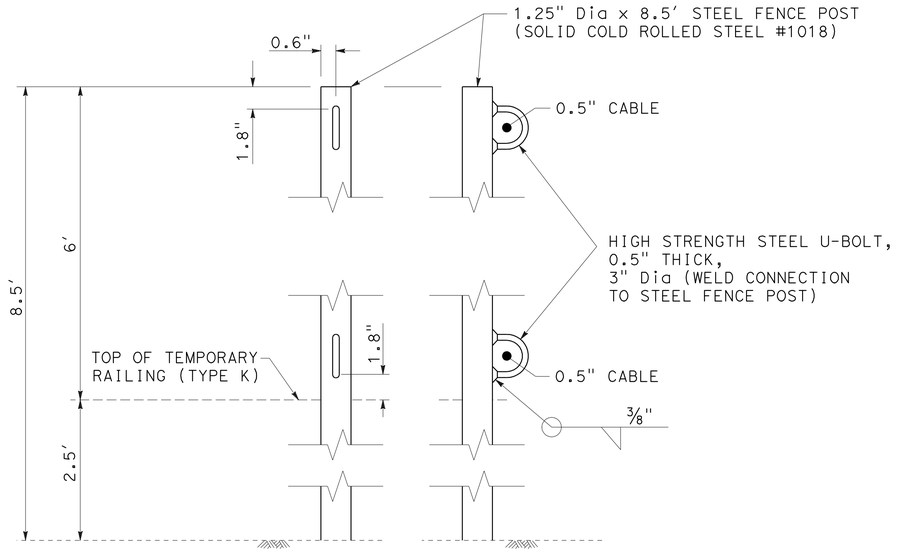


END POST



MIDDLE POST

CHAIN LINK FENCE (ROCK BARRIER)



POST DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-5

REVISED BY | DATE REVISED
MARK SOBOTA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DENNIS P. McBRIDE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

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LAST REVISION 00-00-00 | DATE PLOTTED => 23-FEB-2010 | TIME PLOTTED => 07:59

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trienard | DGN FILE => 148270ga005.dgn | CU 03 231 | EA 482701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	9	29

REGISTERED CIVIL ENGINEER — 1-27-10 DATE

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK SOBOTA — No. C 48579 — Exp. 6-30-10 — CIVIL — STATE OF CALIFORNIA

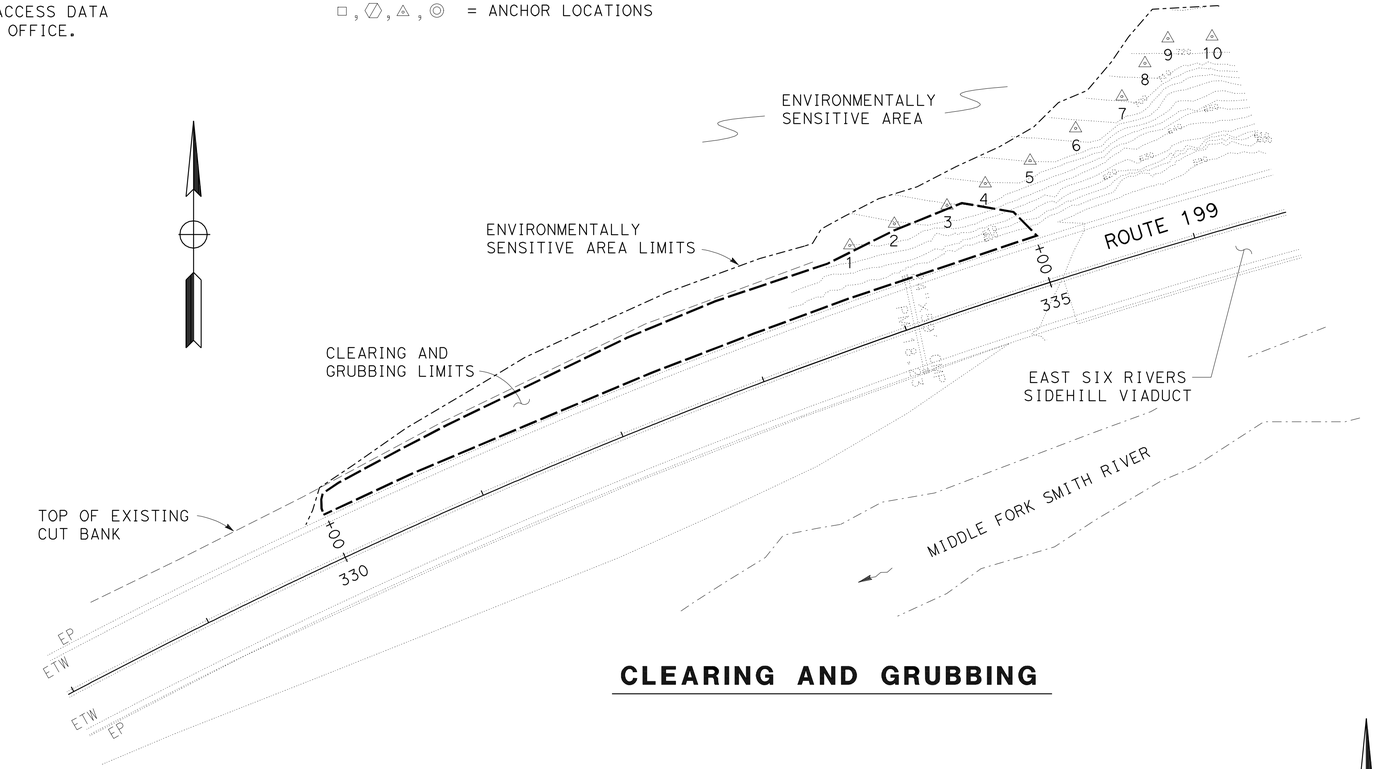
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

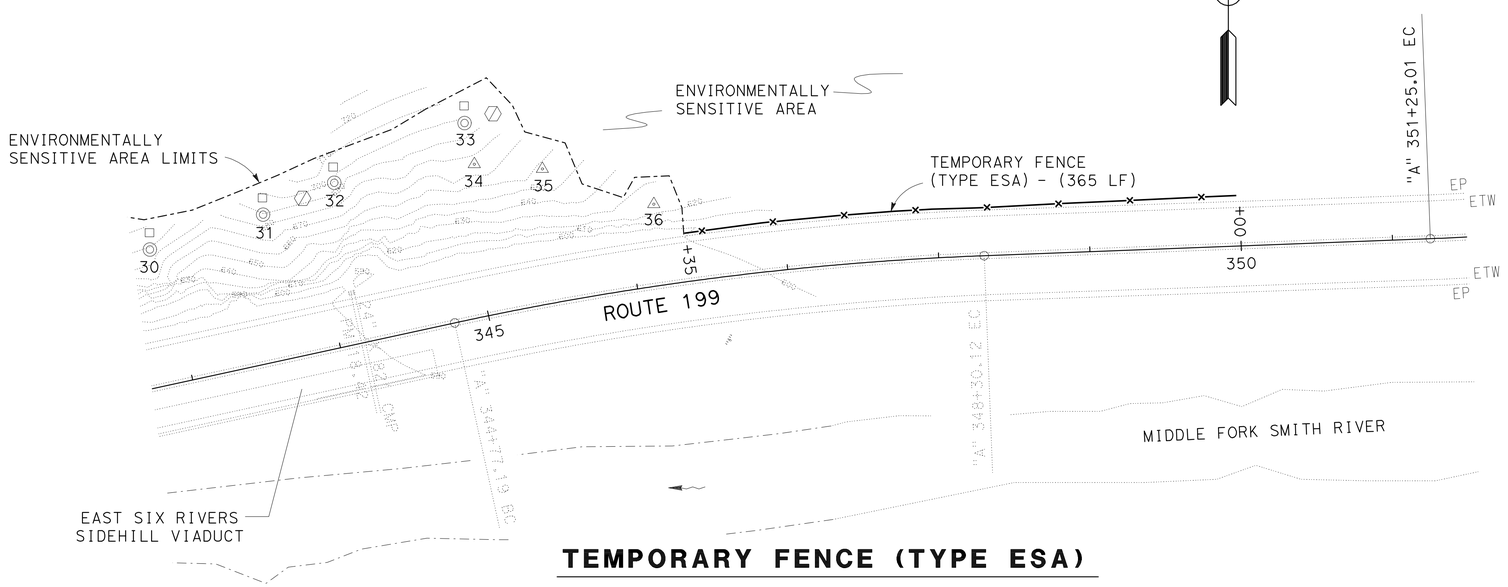
FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

LEGEND:

□ , ⬡ , △ , ◎ = ANCHOR LOCATIONS



CLEARING AND GRUBBING



TEMPORARY FENCE (TYPE ESA)

CONSTRUCTION DETAILS

SCALE: 1" = 50′ **C-6**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN — Caltrans®

FUNCTIONAL SUPERVISOR: DENNIS P. McBRIDE

CALCULATED-DESIGNED BY

CHECKED BY

MARK SOBOTA

REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 23-FEB-2010 | TIME PLOTTED => 07:59

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BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trlenard
DGN FILE => 148270ga006.dgn

CU 03 231

EA 482701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	10	29

REGISTERED CIVIL ENGINEER — 1-27-10 DATE

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK SOBOTA — No. C 48579 — Exp. 6-30-10 — CIVIL — STATE OF CALIFORNIA

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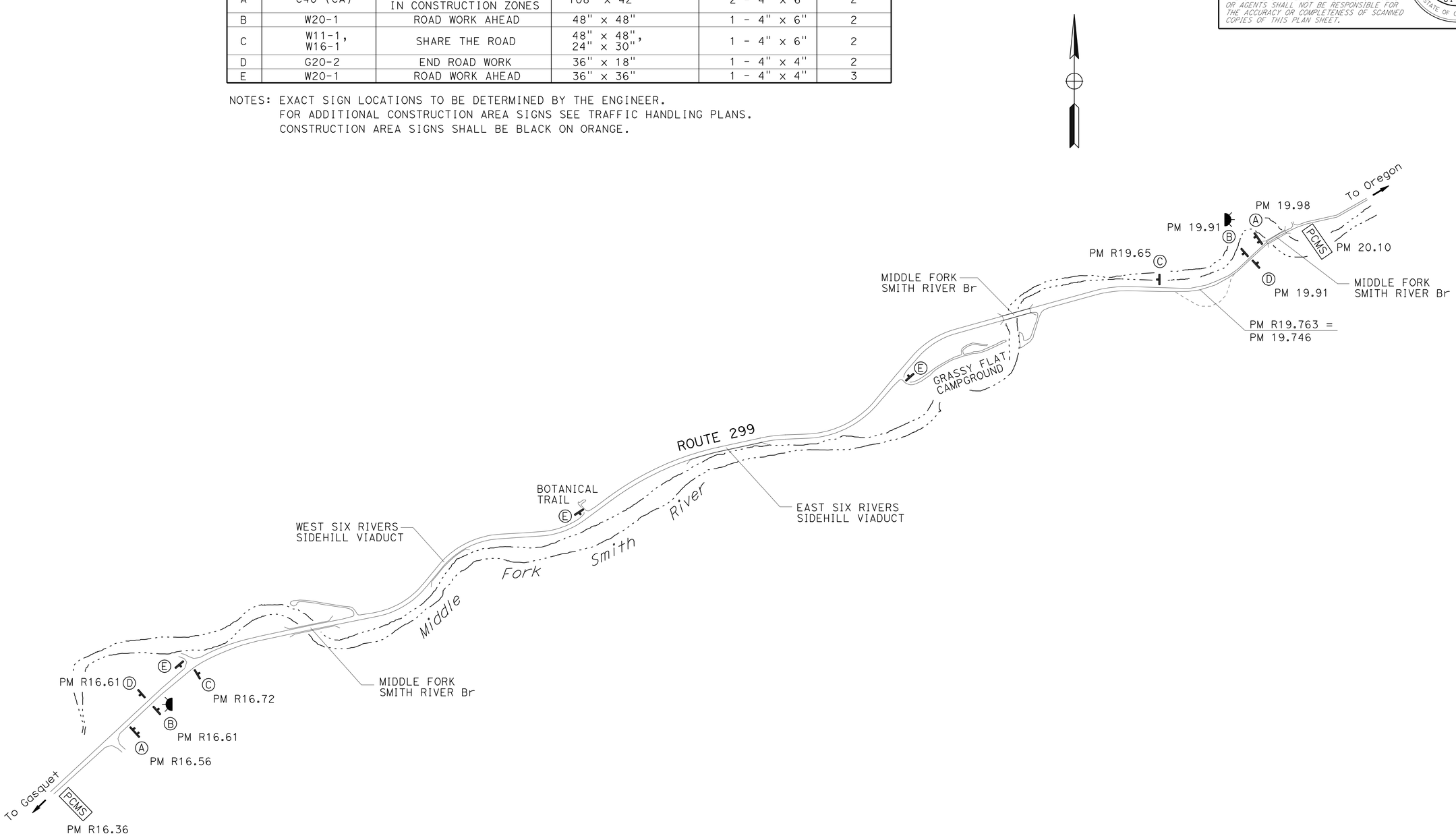
LEGEND:

FLASHING BEACON

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN ◯	SIGN CODE	SIGN MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	C40 (CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	108" x 42"	2 - 4" x 6"	2
B	W20-1	ROAD WORK AHEAD	48" x 48"	1 - 4" x 6"	2
C	W11-1, W16-1	SHARE THE ROAD	48" x 48", 24" x 30"	1 - 4" x 6"	2
D	G20-2	END ROAD WORK	36" x 18"	1 - 4" x 4"	2
E	W20-1	ROAD WORK AHEAD	36" x 36"	1 - 4" x 4"	3

NOTES: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
FOR ADDITIONAL CONSTRUCTION AREA SIGNS SEE TRAFFIC HANDLING PLANS.
CONSTRUCTION AREA SIGNS SHALL BE BLACK ON ORANGE.



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: DENNIS P. McBRIDE
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY / DATE REVISED

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BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

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DGN FILE => 1482701a001.dgn

CU 03 231

EA 482701

NOTES:

1. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE BLACK ON ORANGE.
2. TEMPORARY TRAFFIC CONTROL SHALL BE MOUNTED ON 4" X 6" POSTS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	11	29

REGISTERED CIVIL ENGINEER — 1-27-10 DATE

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK SOBOTA — No. C 48579 — Exp. 6-30-10 — CIVIL — STATE OF CALIFORNIA

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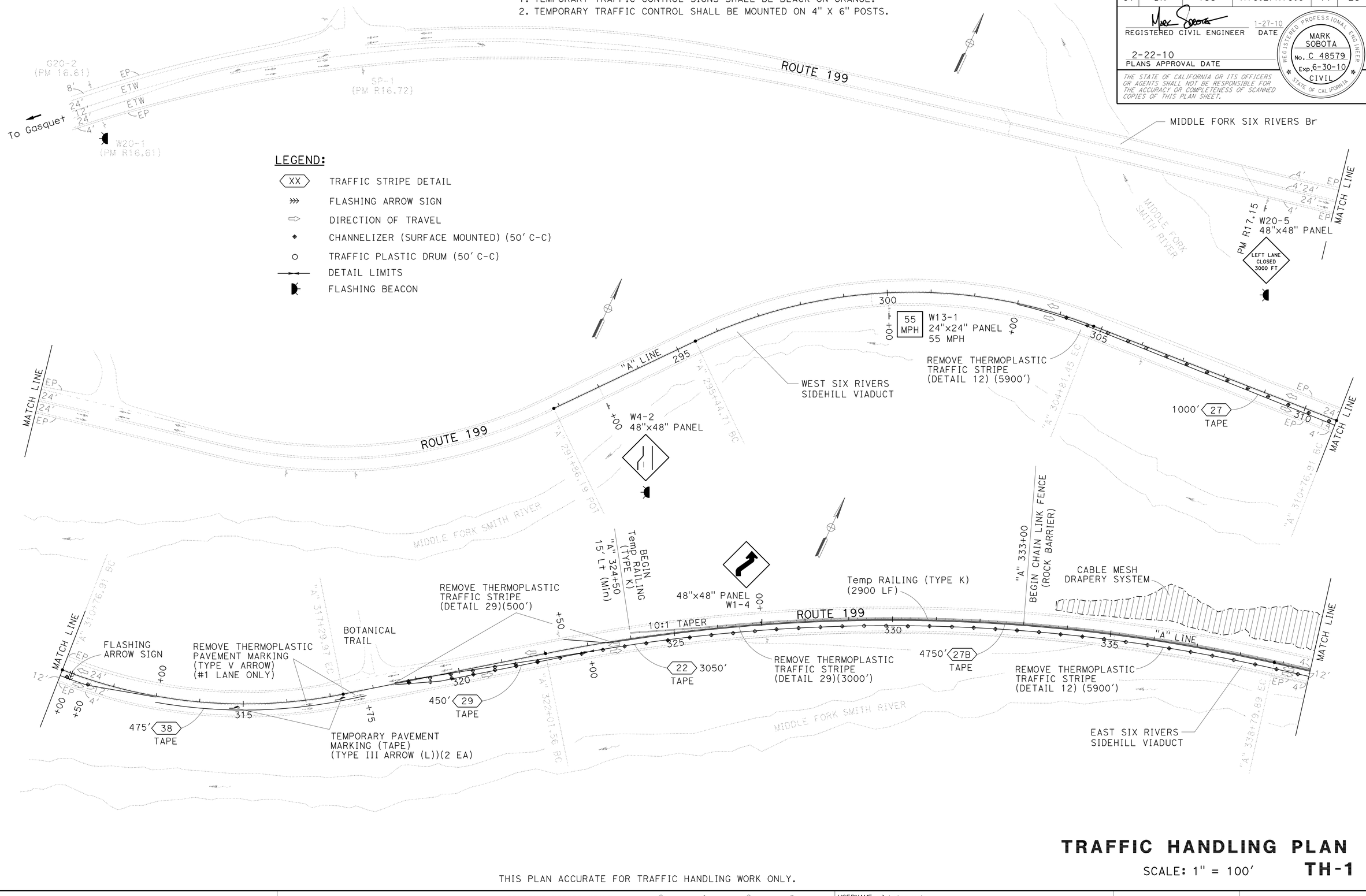
LEGEND:

- XX — TRAFFIC STRIPE DETAIL
- FLASHING ARROW SIGN
- DIRECTION OF TRAVEL
- CHANNELIZER (SURFACE MOUNTED) (50' C-C)
- TRAFFIC PLASTIC DRUM (50' C-C)
- DETAIL LIMITS
- FLASHING BEACON



TRAFFIC HANDLING PLAN

SCALE: 1" = 100'

TH-1

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
MARK SOBOTA	

CALCULATED-DESIGNED BY

CHECKED BY

FUNCTIONAL SUPERVISOR: DENNIS P. McBRIDE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

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DGN FILE => 148270md001.dgn

CU 03 231

EA 482701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	12	29

REGISTERED CIVIL ENGINEER — 1-27-10 DATE

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK SOBOTA — No. C 48579 — Exp. 6-30-10 — CIVIL — STATE OF CALIFORNIA

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TRAFFIC PLASTIC DRUM (50' C-C)

4' Shld | 12' SB LANE

TRAFFIC PLASTIC DRUM PLACEMENT

MATCH LINE

CABLE MESH DRAPERY SYSTEM

"A" 346+50 END CHAIN LINK FENCE (ROCK BARRIER)

EAST SIX RIVERS SIDEHILL VIADUCT

"A" LINE

ROUTE 199

Temp RAILING (TYPE K) (2900 LF)

"A" 344+77.19 EC

"A" 344+30.12 EC

"A" 351+25.01 EC

"A" 353+50, 15' Lt (Min) END Temp RAILING (TYPE K)

REMOVE THERMOPLASTIC TRAFFIC STRIPE (DETAIL 29)(3000')

MIDDLE FORK SMITH RIVER

3050' 22 TAPE

10:1 TAPER

REMOVE THERMOPLASTIC TRAFFIC STRIPE (DETAIL 29)(400')

TRAFFIC PLASTIC DRUM (50' C-C)

400' 29 TAPE

REMOVE THERMOPLASTIC TRAFFIC STRIPE (DETAIL 12) (5900')

600' 27 TAPE

"A" 361+89.60 EC

48"x48" PANEL W1-4

4750' 27B TAPE

REMOVE THERMOPLASTIC PAVEMENT MARKING (TYPE V ARROW) (#2 LANE ONLY)

FLASHING ARROW SIGN

REMOVE THERMOPLASTIC TRAFFIC STRIPE (DETAIL 12)(800')

GRASSY FLAT CAMPGROUND

"A" 397+56.12 EC

55 MPH — W13-1 24"x24" PANEL 55 MPH

W4-2 48"x48" PANEL

"A" 370+59.94 BC

MIDDLE FORK SMITH RIVER

MIDDLE FORK SMITH RIVER BRIDGE

OLD HIGHWAY

RIGHT LANE CLOSED 2500 FT — W20-5 48"x48" PANEL

W20-1 (PM 19.91)

W20-2 (PM 19.91)

To Oregon

SP-1 (PM R19.65)

65 MPH

W6-1

ROUTE 199

MATCH LINE

TRAFFIC HANDLING PLAN

SCALE: 1" = 100'

TH-2

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY: MARK SOBOTA

CHECKED BY

FUNCTIONAL SUPERVISOR: DENNIS P. McBRIDE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN

LAST REVISION: 00-00-00

DATE PLOTTED => 23-FEB-2010

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BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trienard

DGN FILE => 148270md002.dgn

CU 03 231

EA 482701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	13	29

Mark Sobota
REGISTERED CIVIL ENGINEER

1-27-10
DATE

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK SOBOTA
No. C 48579
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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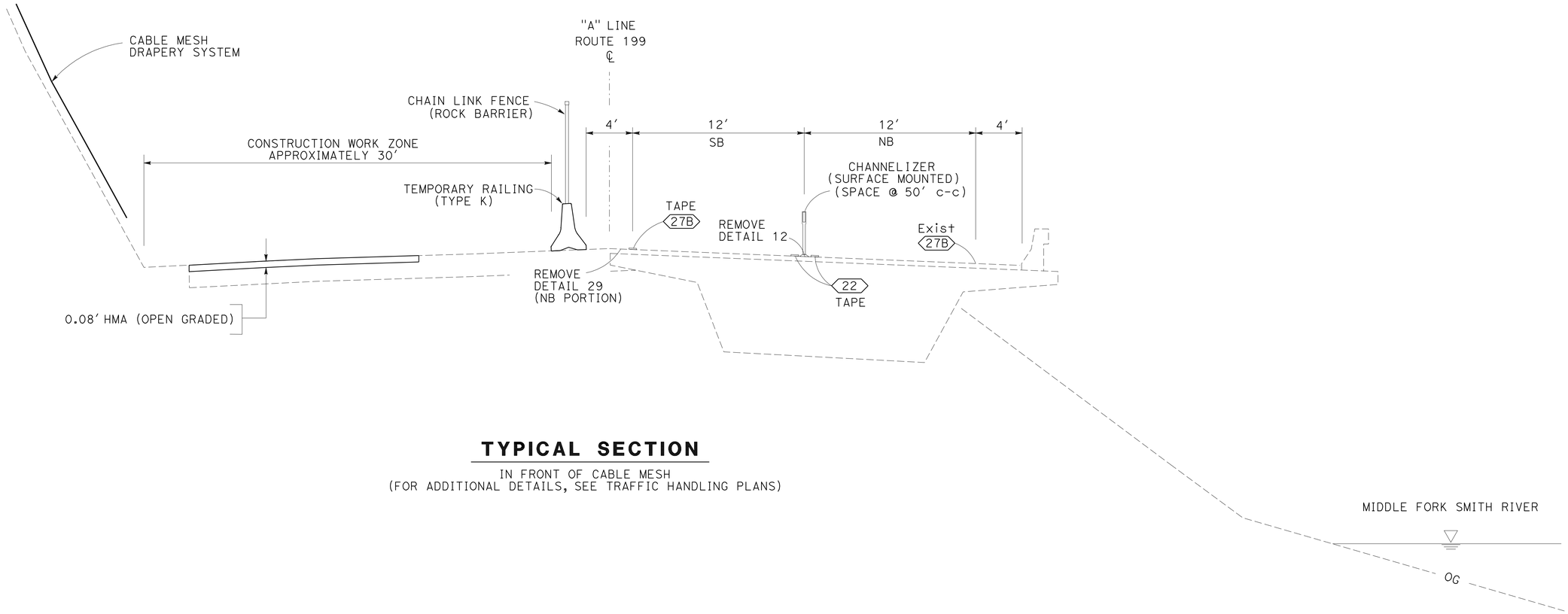

TYPICAL SECTION

IN FRONT OF CABLE MESH
(FOR ADDITIONAL DETAILS, SEE TRAFFIC HANDLING PLANS)

TRAFFIC HANDLING DETAILS

NO SCALE

THD-1

REVISED BY | DATE REVISED
MARK SOBOTA | CALCULATED-DESIGNED BY | CHECKED BY
DENNIS P. McBRIDE | FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

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USERNAME => trlenard
DGN FILE => 148270me001.dgn

CU 03 231

EA 482701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	14	29

Mark Sobota 1-27-10
REGISTERED CIVIL ENGINEER DATE

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK SOBOTA — No. C 48579 — Exp. 6-30-10 — CIVIL — STATE OF CALIFORNIA

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DELINEATORS

LOCATION/ STATION	CHANNELIZER (SURFACE MOUNTED)	TRAFFIC PLASTIC DRUM	REMARKS
	EA		
"A" 304+00 - 311+50	15		SPACED @ 50' c-c
"A" 318+50 - 367+00	125		SPACED @ 50' c-c
"A" 353+50 - 370+00		35	SPACED @ 50' c-c
TOTAL	140	35	

FLASHING ARROW

LOCATION/ STATION	FLASHING ARROW SIGN
	EA
"A" 311+00	1
"A" 370+00	1
TOTAL	2

REMOVE THERMOPLASTIC TRAFFIC STRIPE

LOCATION/ STATION	DETAIL NUMBER	DETAIL LENGTH	REMOVE THERMOPLASTIC TRAFFIC STRIPE		REMARKS
			4" SOLID YELLOW	4" WHITE (BROKEN 36-12)	
			LF		
"A" 303+00 - 362+00	12	5900		1475	NB DIRECTION
"A" 318+50 - 323+50	29	500	2000		
"A" 323+50 - 353+50	29	3000	6000		REMOVE NB SIDE ONLY
"A" 353+50 - 357+50	29	400	1600		
"A" 362+00 - 370+00	12	800		200	SB DIRECTION
TOTAL			9,600	1,675	

REMOVE THERMOPLASTIC PAVEMENT MARKING

LOCATION/ STATION	ORIENTATION	TYPE	AREA
			SQFT
"A" 316+40	FNBT	TYPE V ARROW	33
"A" 317+60	FNBT	TYPE V ARROW	33
"A" 367+90	FSBT	TYPE V ARROW	33
"A" 369+40	FSBT	TYPE V ARROW	33
TOTAL			132

TEMPORARY STRIPING AND PAVEMENT MARKER

LOCATION/ STATION	DETAIL NUMBER	DETAIL LENGTH	TEMPORARY TRAFFIC STRIPE (TAPE)			TEMPORARY PAVEMENT MARKER			REMARKS
			4" SOLID YELLOW	4" SOLID WHITE	8" SOLID WHITE	TYPE H YELLOW (ONE WAY)	TYPE D YELLOW (TWO WAY)	TYPE G CLEAR (ONE WAY)	
			LF			EA			
"A" 303+00 - 313+00	27	1000	1000			22			NB DIRECTION
"A" 313+00 - 317+75	38	475			475			21	NB DIRECTION
"A" 318+50 - 323+00	29	450	900				40		
"A" 322+50 - 370+00	27B	4750		4750					SB DIRECTION
"A" 323+00 - 353+50	22	3050	3050				257		
"A" 353+50 - 357+50	29	400	800				36		
"A" 357+50 - 363+50	27	600	600			15			NB DIRECTION
SUBTOTAL			6,350	4,750	475	37	333	21	
TOTAL			11,575			391			

TEMPORARY PAVEMENT MARKING (TAPE)

LOCATION/ STATION	ORIENTATION	TYPE	AREA
			SQFT
"A" 314+80	FNBT	TYPE III ARROW (L)	42
"A" 317+30	FNBT	TYPE III ARROW (L)	42
TOTAL			84

TEMPORARY RAILING

LOCATION/ STATION	TEMPORARY RAILING (TYPE K)	CHAIN LINK FENCE (ROCK BARRIER)
	LF	
"A" 324+50 - 353+50	2,900	
"A" 333+00 - 346+50		1,350
TOTAL	2,900	1,350

TRAFFIC HANDLING QUANTITIES
THQ-1

REVISED BY | DATE REVISED
MARK SOBOTA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DENNIS P. McBRIDE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

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LAST REVISION | DATE PLOTTED => 23-FEB-2010
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BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trlenard | DGN FILE => 148270mf001.dgn | CU 03 231 | EA 482701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	15	29

REGISTERED CIVIL ENGINEER — DATE: 1-27-10

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK SOBOTA
No. C 48579
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

ROADWAY

LOCATION/ STATION	COLD PLANE AC PAVEMENT	HMA (OPEN GRADED)	CABLE MESH DRAPERY SYSTEM	REMARKS
	SQYD	TON	SQFT	
"A" 333+50 TO 346+50 (Lt)	2312			
"A" 333+50 TO 346+50 (Lt)		136		0.08' OVERLAY
"A" 333+70 TO 346+35 (Lt)			175,000	
TOTAL	2312	136	175,000	

WATER POLLUTION CONTROL

LOCATION/ STATION	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY CHECK DAM	REMARKS
	EA	LF	
VARIOUS	8		
"A" 333+50 - 346+50		230	@ 75' INVERVALS WHEN SLOPE>4%
TOTAL	8	230	

THERMOPLASTIC TRAFFIC STRIPE AND PAVEMENT MARKER

LOCATION/ STATION	DETAIL NUMBER	DETAIL LENGTH	THERMOPLASTIC TRAFFIC STRIPE			PAVEMENT MARKER (RETROREFLECTIVE)		PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)	REMARKS
			4" SOLID YELLOW	4" WHITE	4" WHITE (BROKEN 36-12)	TYPE G CLEAR (ONE WAY)	TYPE D YELLOW (TWO WAY)	TYPE G CLEAR (ONE WAY)	
			LF			EA			
"A" 303+00 - 362+00	12	5900			5900	123			NB DIRECTION
"A" 318+50 - 323+50	29	500	2000				44		
"A" 323+50 - 353+50	29	3000	6000				126		NB SIDE ONLY
"A" 333+50 - 346+50	27B	1300		1300					
"A" 333+50 - 346+50	12	1300			1300			28	SB DIRECTION
"A" 353+50 - 357+50	29	400	1600				34		
"A" 362+00 - 370+00	12	800			800	17			SB DIRECTION
SUBTOTAL			9,600	1,300	8,000	140	204		
TOTAL			10,900		8,000	* 344		28	

* NOTE: USE EXISTING RECESSES FOR MARKER PLACEMENT.

THERMOPLASTIC PAVEMENT MARKING

LOCATION/ STATION	ORIENTATION	TYPE	AREA
			SQFT
"A" 316+40	FNBT	TYPE V ARROW	33
"A" 317+60	FNBT	TYPE V ARROW	33
"A" 367+90	FSBT	TYPE V ARROW	33
"A" 369+40	FSBT	TYPE V ARROW	33
TOTAL			132

REVISED BY | DATE REVISED
MARK SOBOTA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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SUMMARY OF QUANTITIES
Q-1

LAST REVISION | DATE PLOTTED => 23-FEB-2010
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	16	29

Brian T. Finck 1-27-10
REGISTERED ELECT ENGINEER DATE

2-22-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
BRIAN T. FINCK
No. 17756
Exp. 6-30-10
ELECT
STATE OF CALIFORNIA

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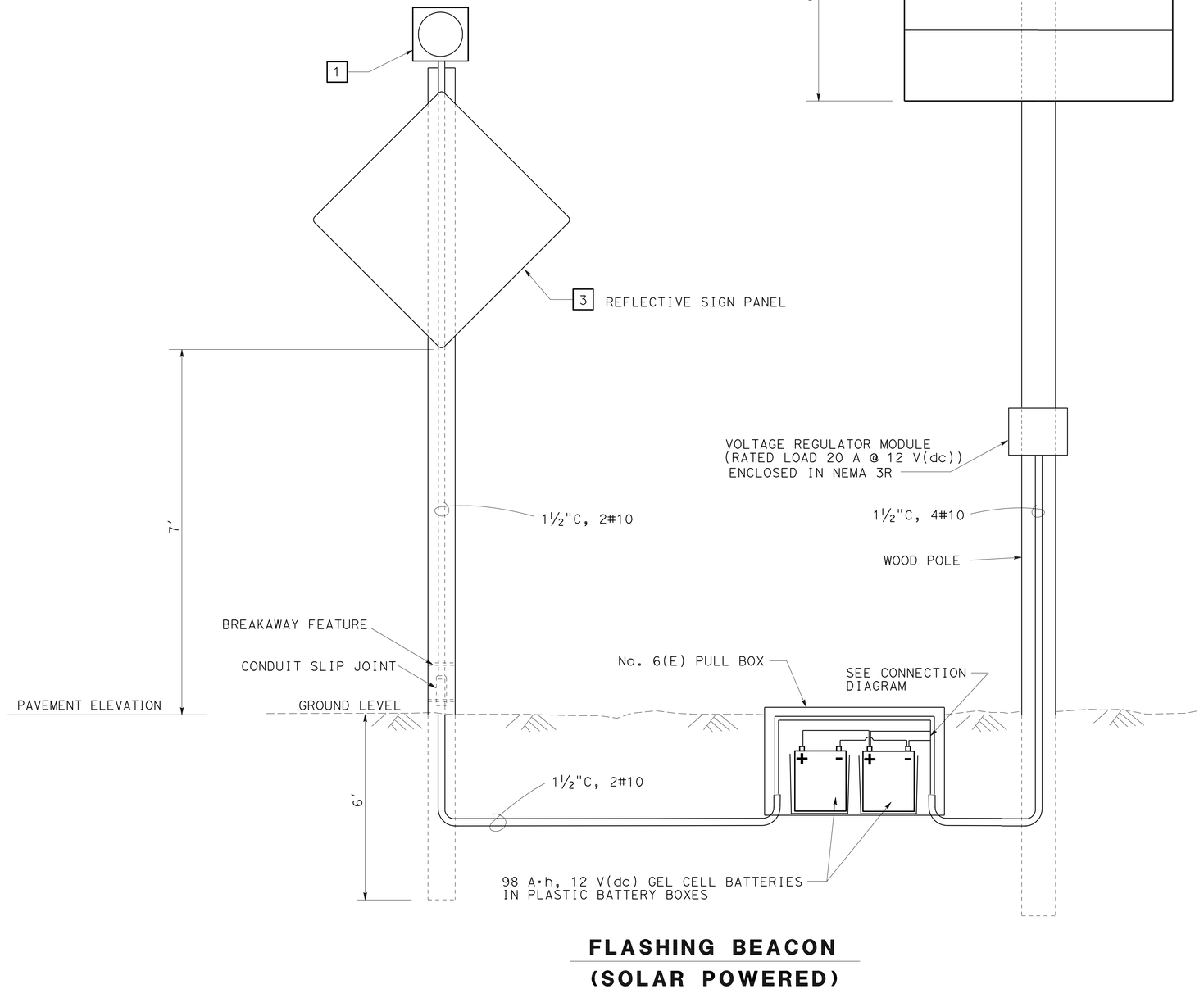
NOTES: (THIS SHEET ONLY)

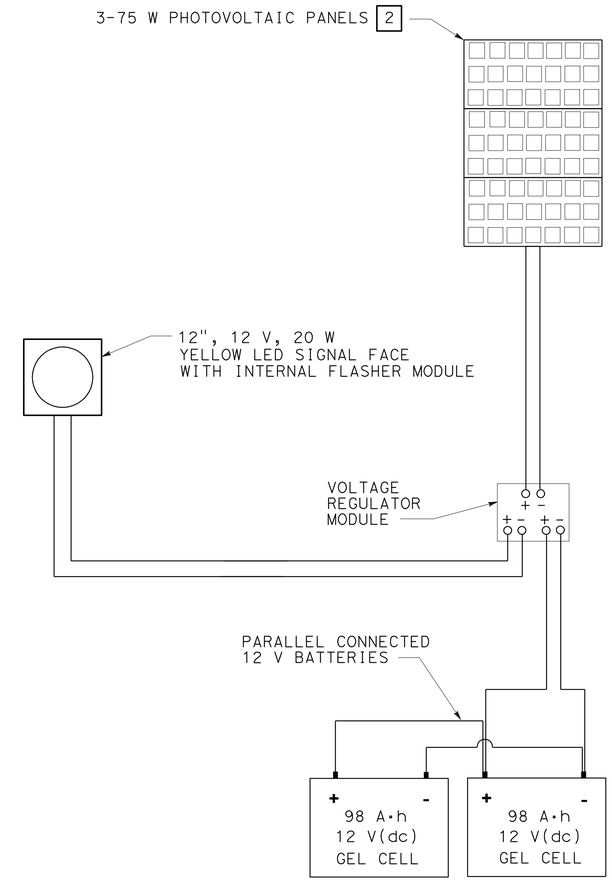
1. 1-SECTION SIGNAL FACE WITH VISOR AND BACKPLATE.
2. THIS UNIT SHALL BE LOCATED IN AN UNSHADED AREA.
3. SEE SHEET TH-1 AND TH-2 FOR SIGNS W20-1 (2 EA), W20-5 (2 EA), AND W4-2 (2 EA).
4. WOOD POLE WITH SOLAR PANELS SHALL BE LOCATED OUTSIDE THE CLEAR RECOVERY ZONE. WOOD POLE SHALL BE CLASS 5, 40′.



FLASHING BEACON (SOLAR POWERED)

LEGEND:

A·h = AMPERE HOUR



CONNECTION DIAGRAM

TEMPORARY FLASHING BEACON (SOLAR POWERED)

NO SCALE

E-1

CALCULATED-DESIGNED BY	REVISED BY	DATE REVISED
CHECKED BY	BRIAN T. FINCK	
	TONY PEREZ	

FUNCTIONAL SUPERVISOR: TROY ARSENEAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC ELECTRICAL

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BORDER LAST REVISED 4/11/2008

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USERNAME => trlenard
DGN FILE => 148270ua001.dgn

CU 03 231

EA 482701

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	17	29

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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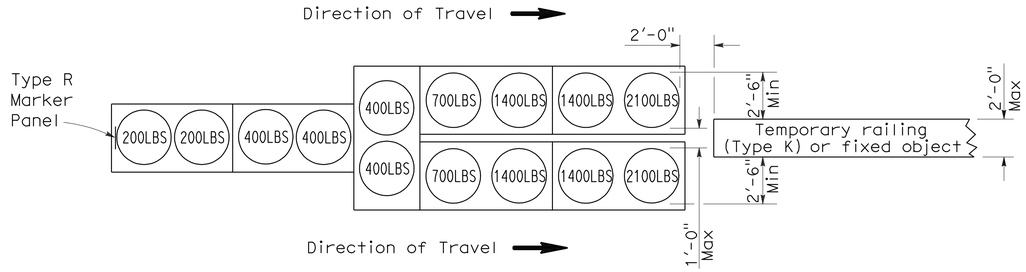
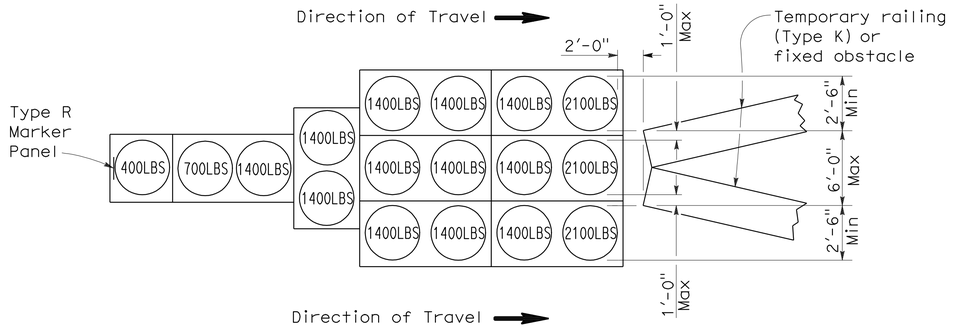
To accompany plans dated 2-22-10



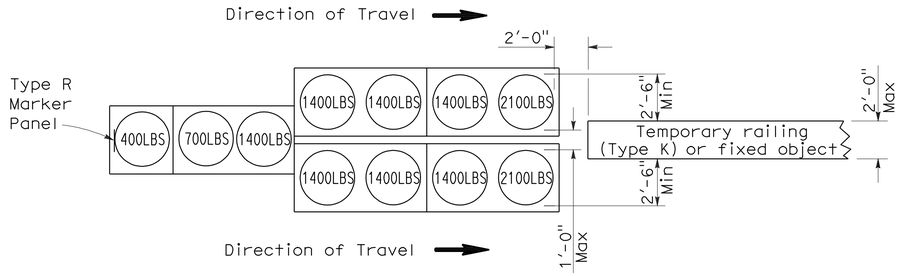
ARRAY 'TU14'

Approach speed 45 mph or more



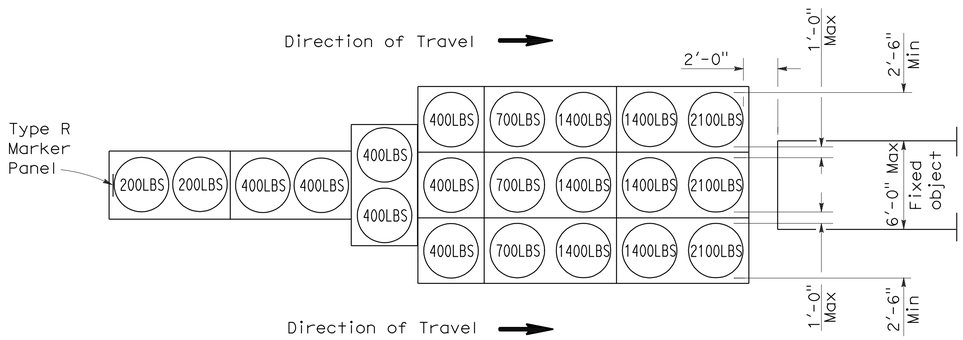
ARRAY 'TU17'

Approach speed less than 45 mph



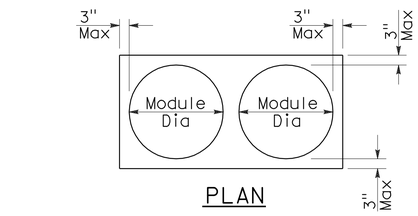
ARRAY 'TU11'

Approach speed less than 45 mph

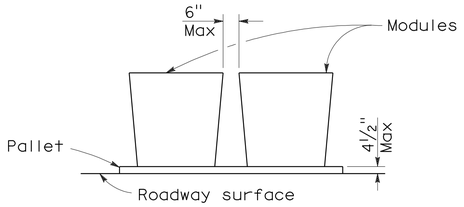


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	18	29

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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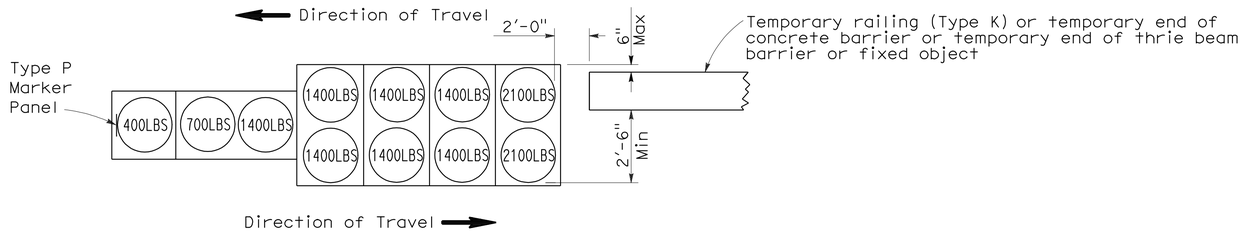
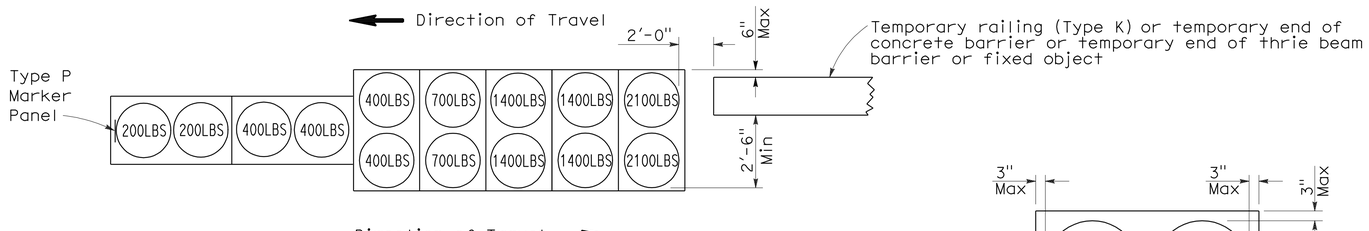
To accompany plans dated 2-22-10



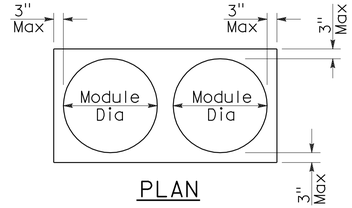
ARRAY 'TB11'

Approach speed less than 45 mph

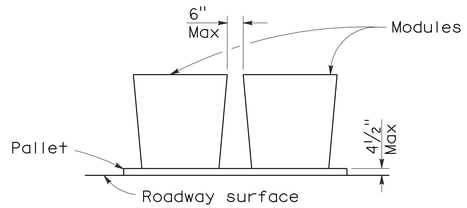


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	19	29

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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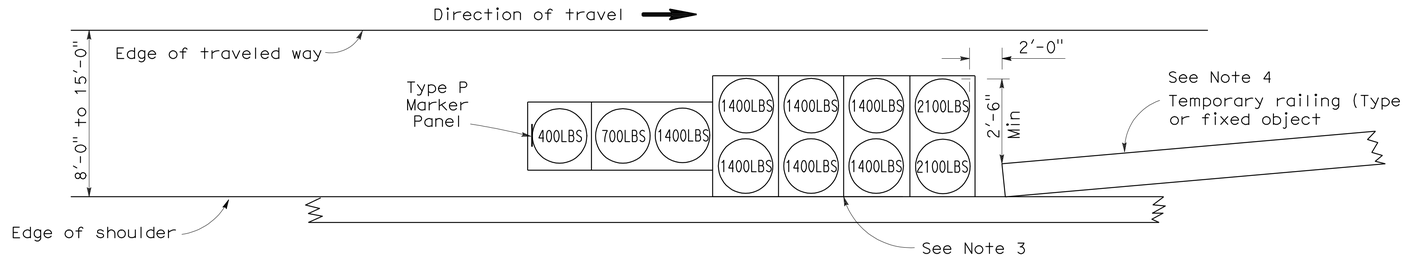
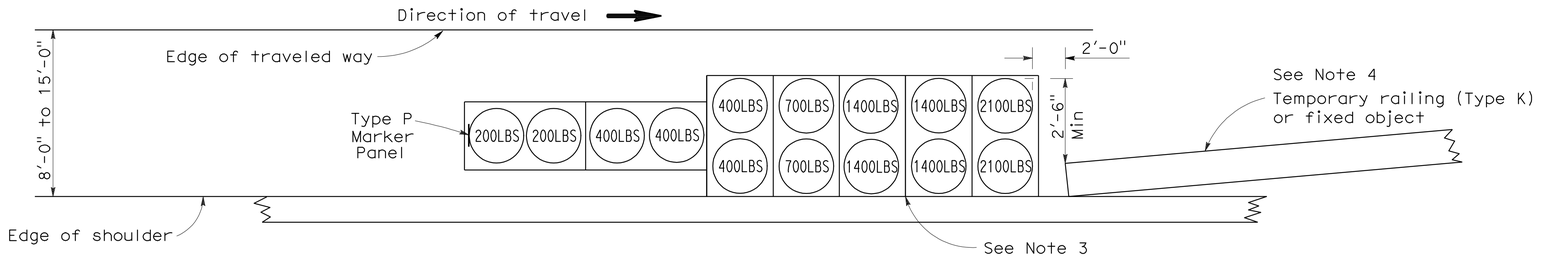
To accompany plans dated 2-22-10



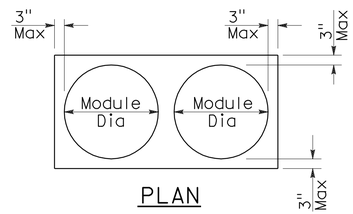
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

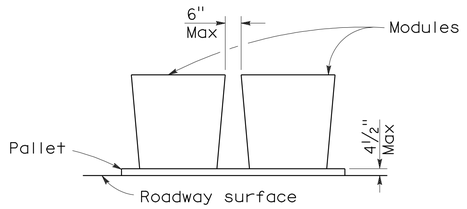


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	20	29

Greg W. Edwards
REGISTERED CIVIL ENGINEER

November 17, 2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Greg W. Edwards — No. C36386 — Exp. 6-30-08 CIVIL — STATE OF CALIFORNIA

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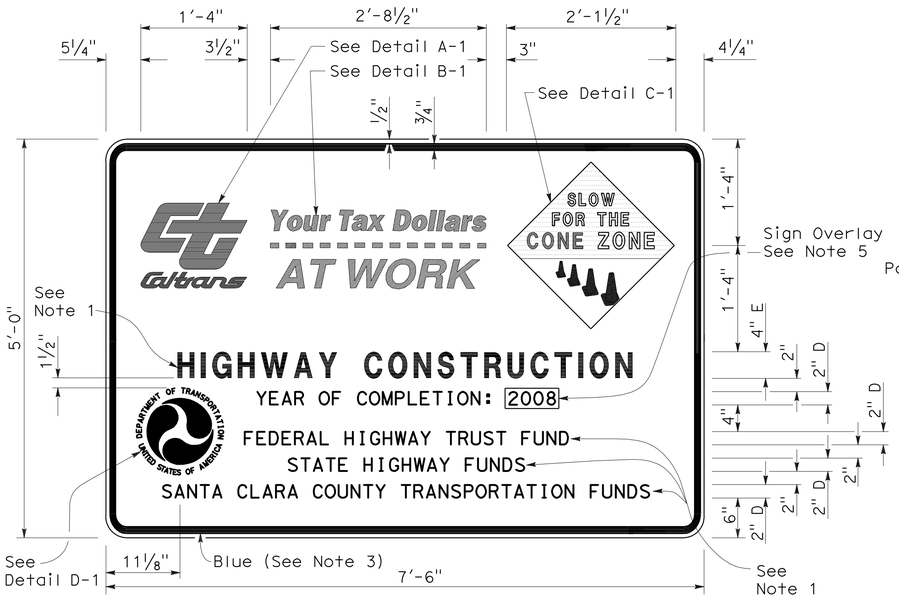
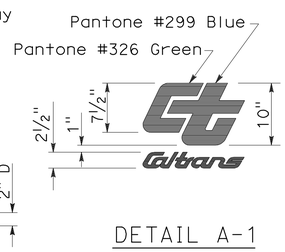
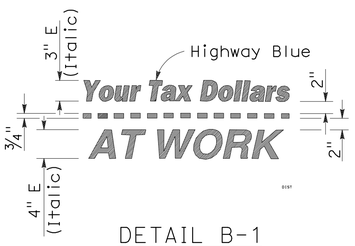
To accompany plans dated 2-22-10



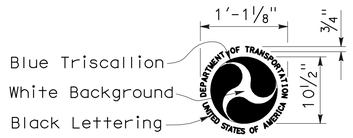
TYPE 1



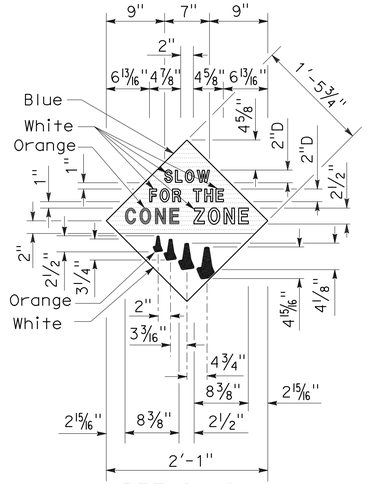
DETAIL A-1



DETAIL B-1
(See Note 3)



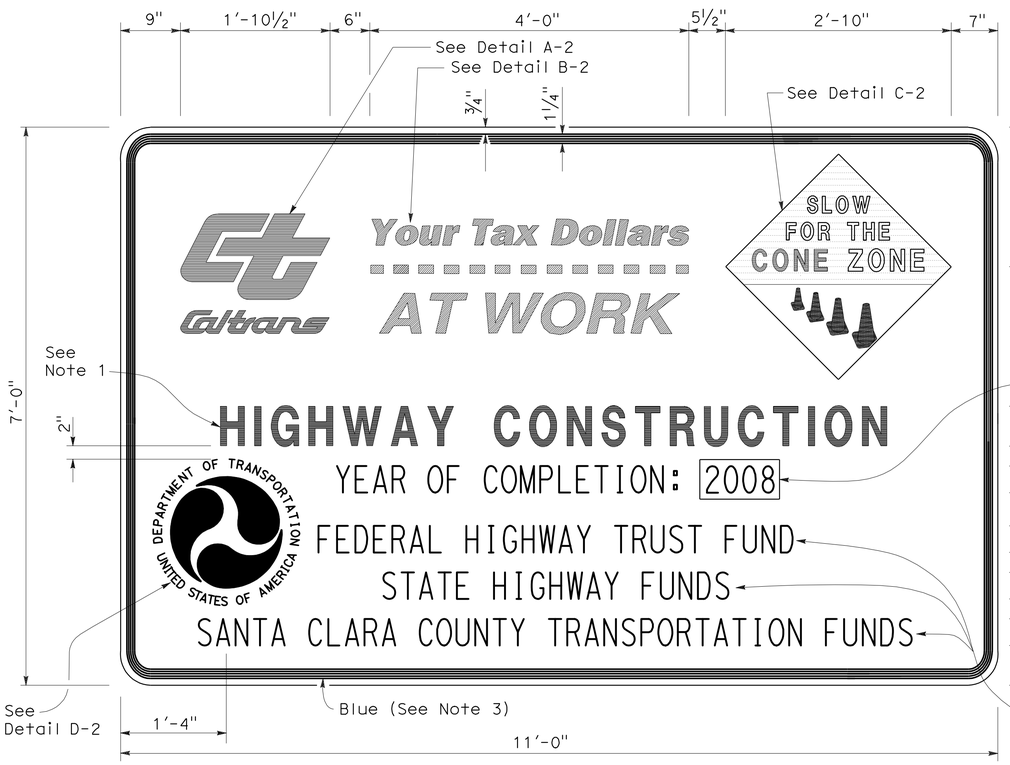
DETAIL D-1
(See Note 6)



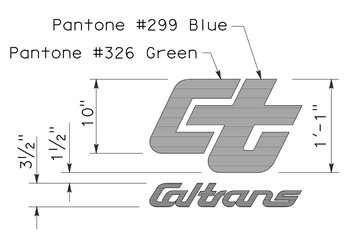
DETAIL C-1
(See Note 4)

NOTES:

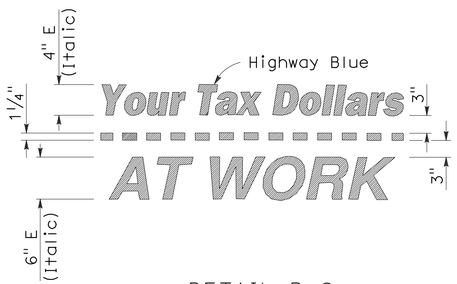
1. The sign messages shown for type of project and fund types are examples only. See the Special Provisions for the applicable type of project and fund type messages to be used.
2. Except as otherwise shown, the legend of sign shall be black on a white background (non-reflective).
3. The border of the signs and details "B-1" and "B-2" shall be blue (non-reflective).
4. The diamond in details "C-1" and "C-2" shall be blue for the background of message, " SLOW FOR THE CONE ZONE", and white background for the orange cones. The color and type of font for the "SLOW FOR THE CONE ZONE" message shall be: "SLOW" white D; "FOR THE" white D; "CONE" orange Arial font; "ZONE" white Arial font.
5. Year of completion of project construction shown on the overlay is an example only. See the Special Provisions.
6. Use when the Project involves Federal Highway Trust Fund.



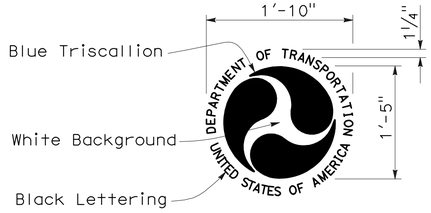
TYPE 2



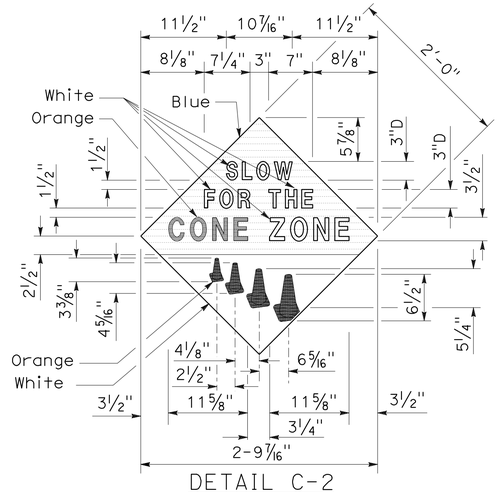
DETAIL A-2



DETAIL B-2
(See Note 3)



DETAIL D-2
(See Note 6)



DETAIL C-2
(See Note 4)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS

NO SCALE

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

REVISED STANDARD PLAN RSP T7

2006 REVISED STANDARD PLAN RSP T7

5-15-06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	21	29

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

April 3, 2009
PLANS APPROVAL DATE

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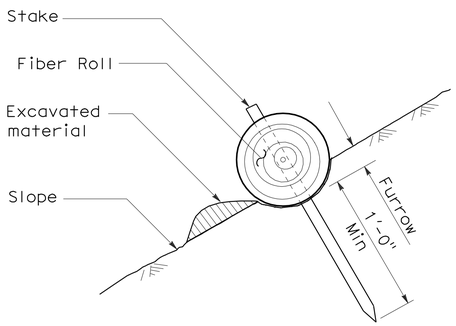
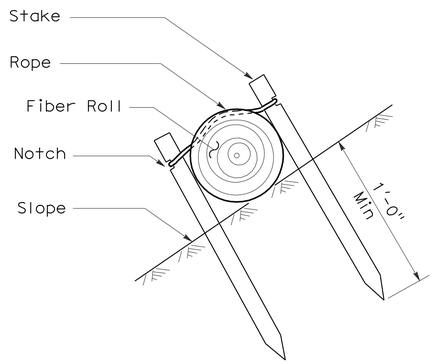
LICENSED LANDSCAPE ARCHITECT — Robert B. Schott 3025 — Registration Date 11-30-10 — Renewal Date 2-25-09 — Date — STATE OF CALIFORNIA

To accompany plans dated 2-22-10

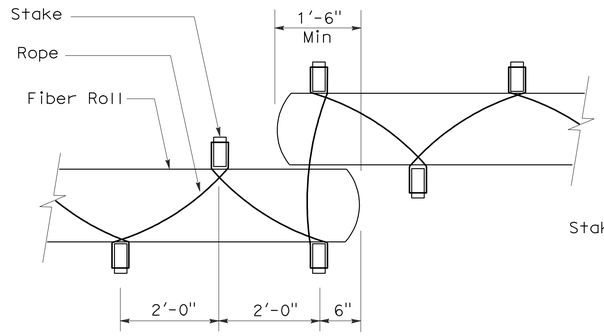


SECTION

TEMPORARY FIBER ROLL (TYPE 1)

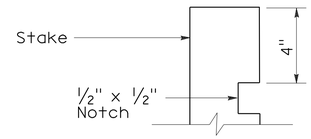


SECTION



PLAN

TEMPORARY FIBER ROLL (TYPE 2)

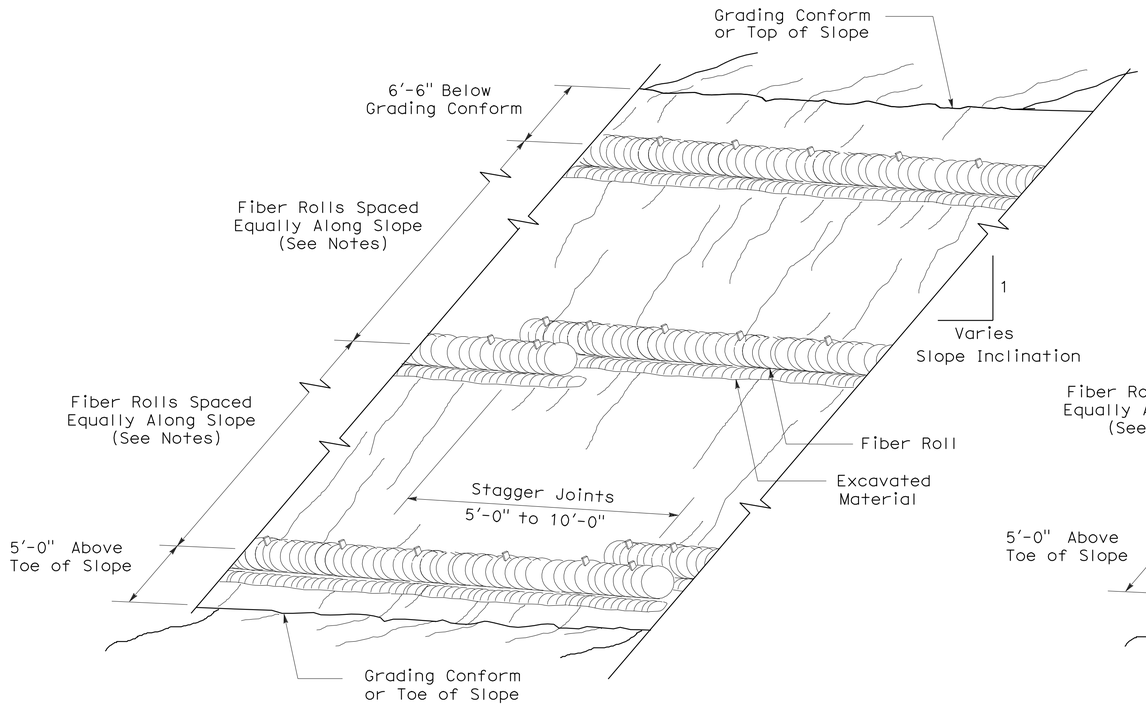


ELEVATION

STAKE NOTCH DETAIL

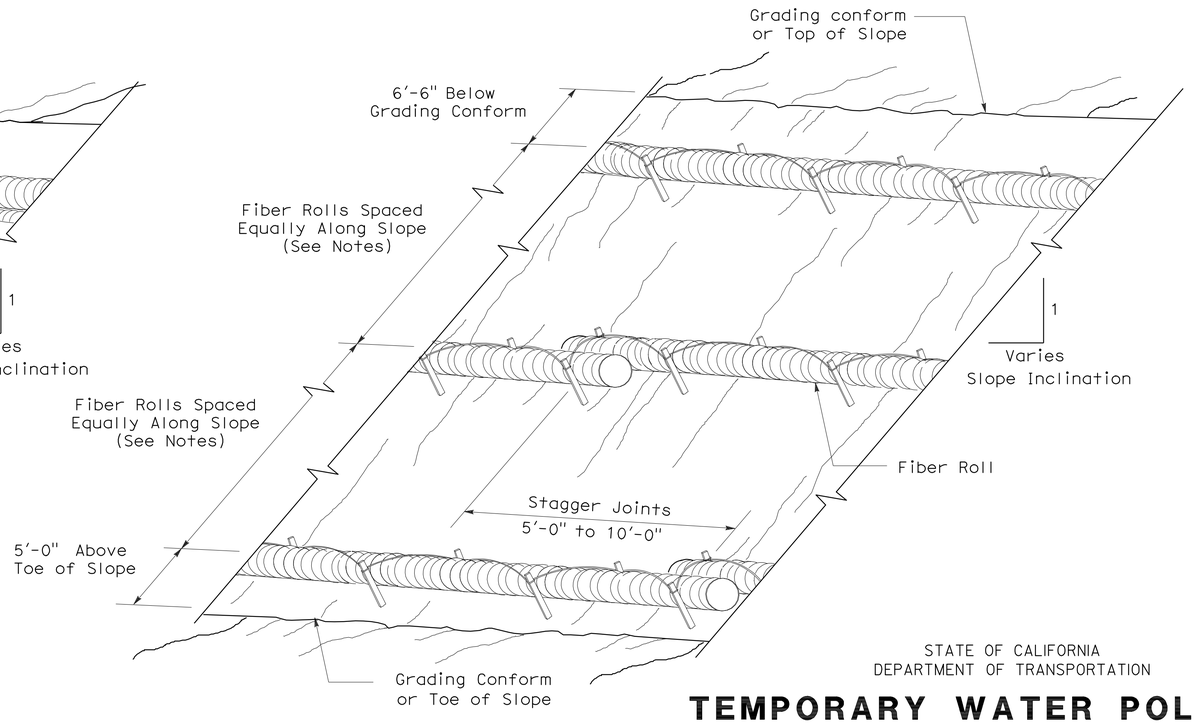
NOTES:

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



PERSPECTIVE

TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE

TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY FIBER ROLL)

NO SCALE

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

REVISED STANDARD PLAN RSP T56

2006 REVISED STANDARD PLAN RSP T56

2-23-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	22	29

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS Approval DATE

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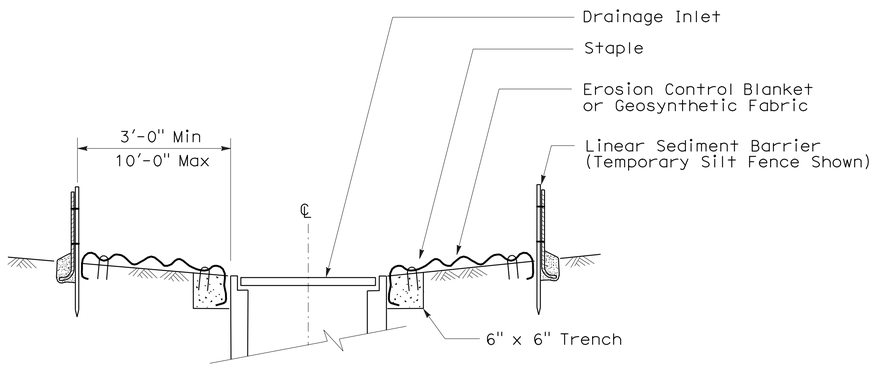
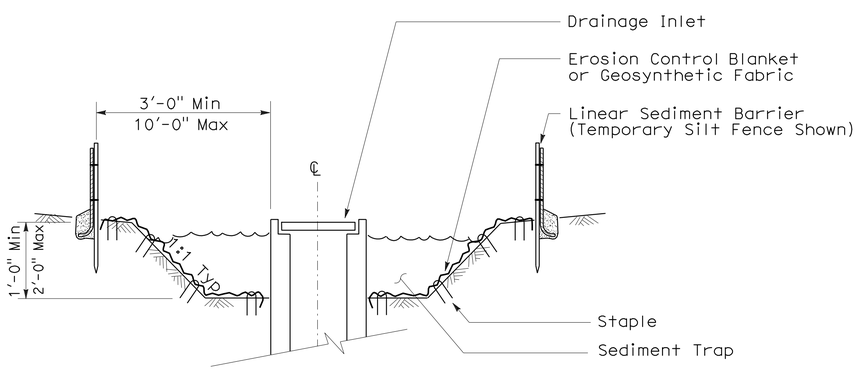
LICENSED LANDSCAPE ARCHITECT — Robert B. Schott 3825 — Signature 11-04-08 Renewal Date — 08-11-08 Date — STATE OF CALIFORNIA

To accompany plans dated 2-22-10



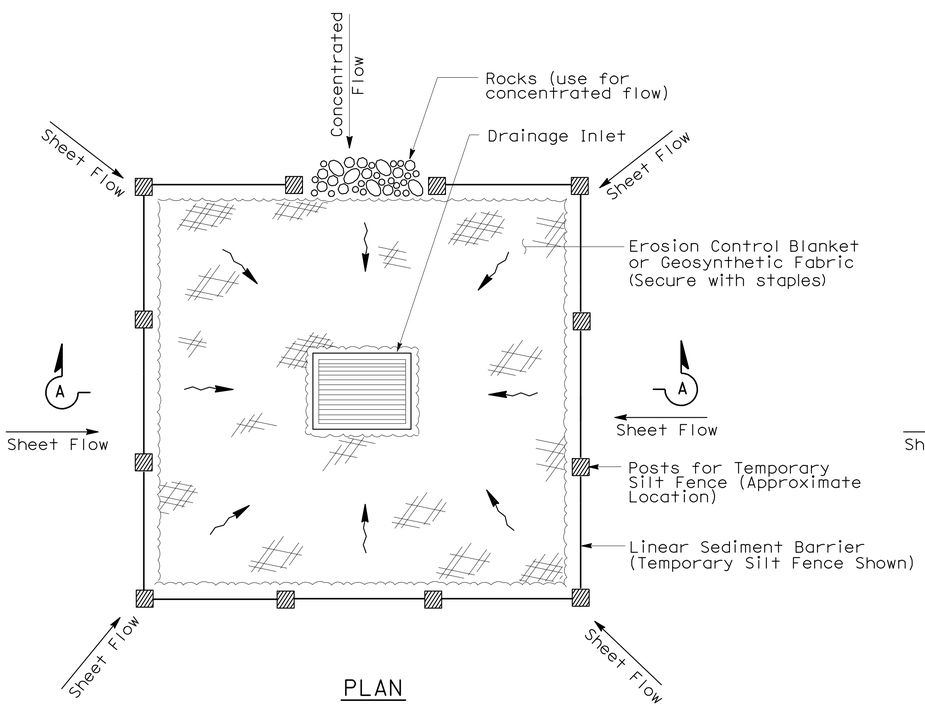
SECTION A-A



SECTION B-B

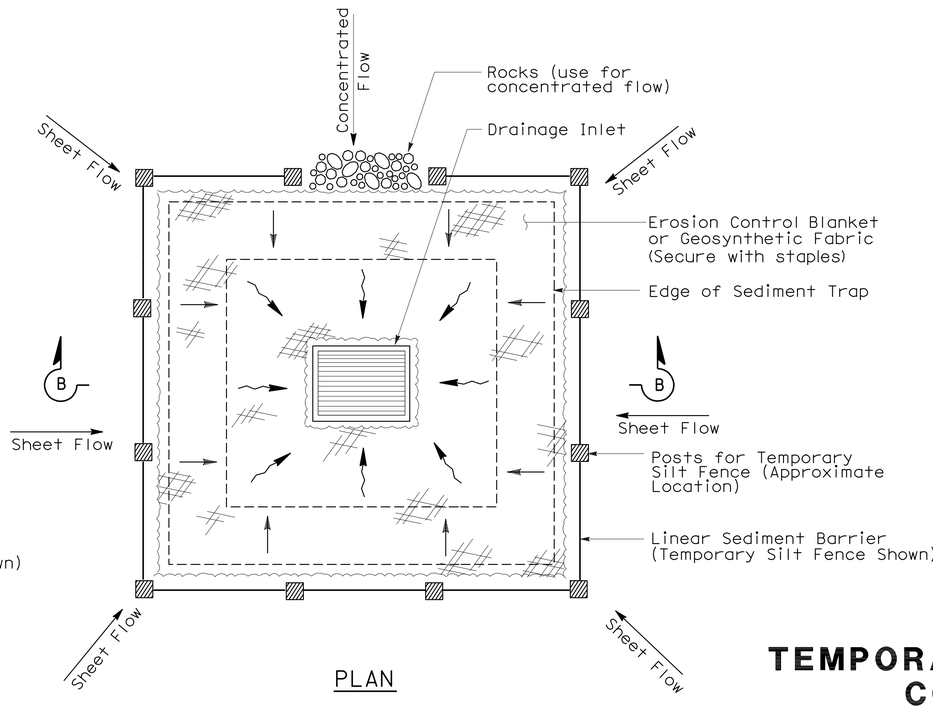
NOTES:

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



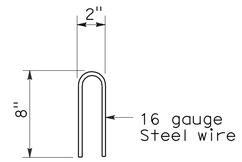
PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



PLAN

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



STAPLE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

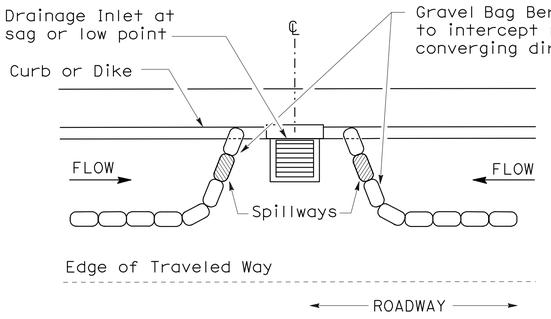
NO SCALE

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

NEW STANDARD PLAN NSP T61

2006 NEW STANDARD PLAN NSP T61

7-11-08



PLAN

CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	23	29

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Robert B. Schott 3825 — Signature — 11-04-08 Renewal Date — 08-11-08 Date — STATE OF CALIFORNIA

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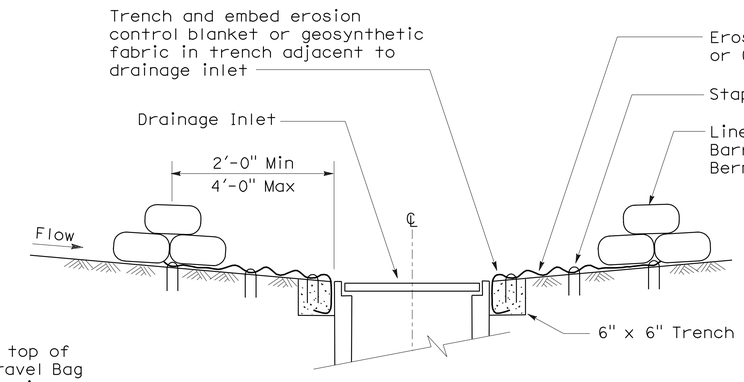
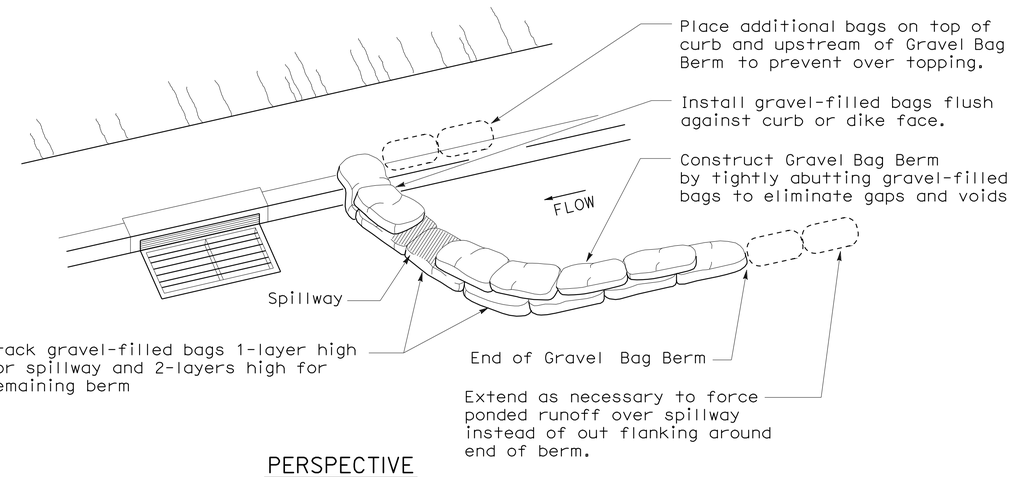
To accompany plans dated 2-22-10



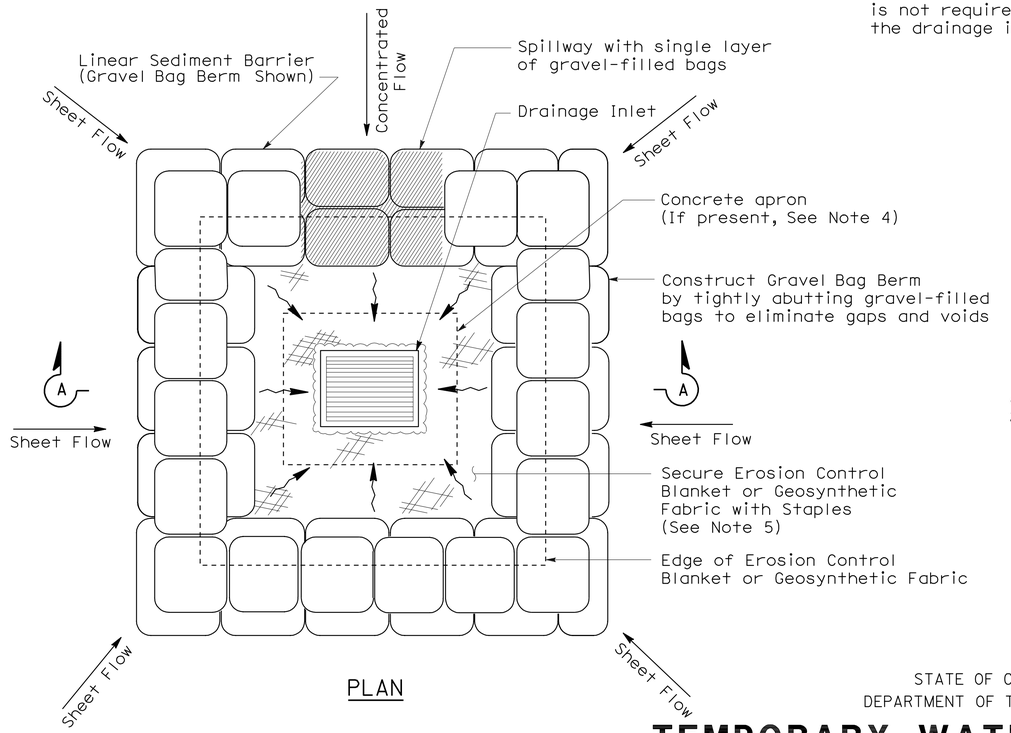
SECTION A-A

NOTES:

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

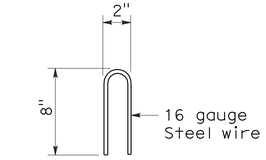


PERSPECTIVE

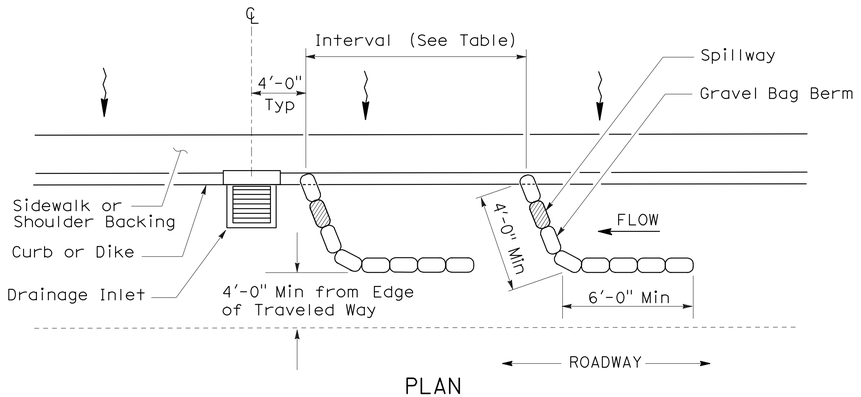


PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL



PLAN

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T62

2006 NEW STANDARD PLAN NSP T62

7-11-08

FLEXIBLE SEDIMENT BARRIER SPACING TABLE

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	24	29

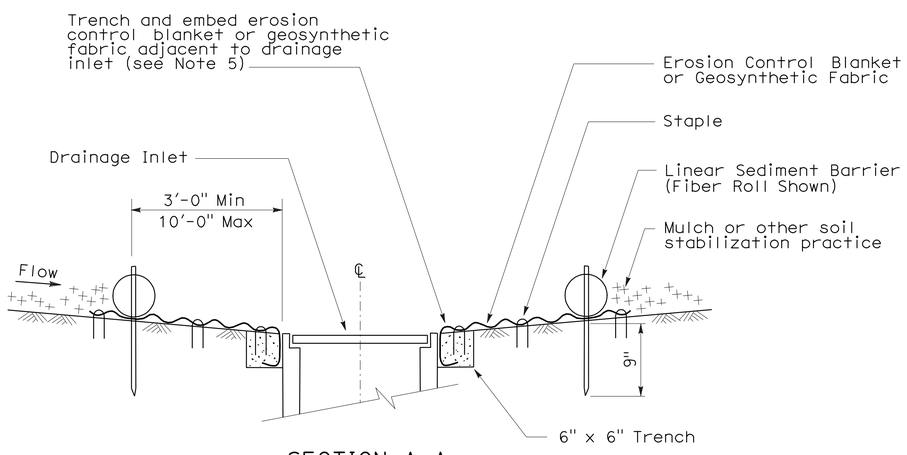
Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

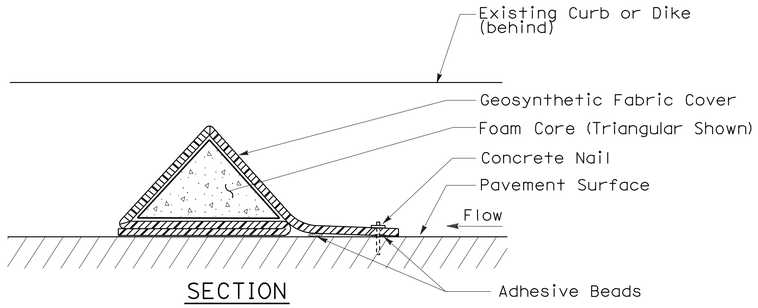
LICENSED LANDSCAPE ARCHITECT — Robert B. Schott 3825 — Signature — 11-04-08 Renewal Date — 08-11-08 Date — STATE OF CALIFORNIA

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 2-22-10

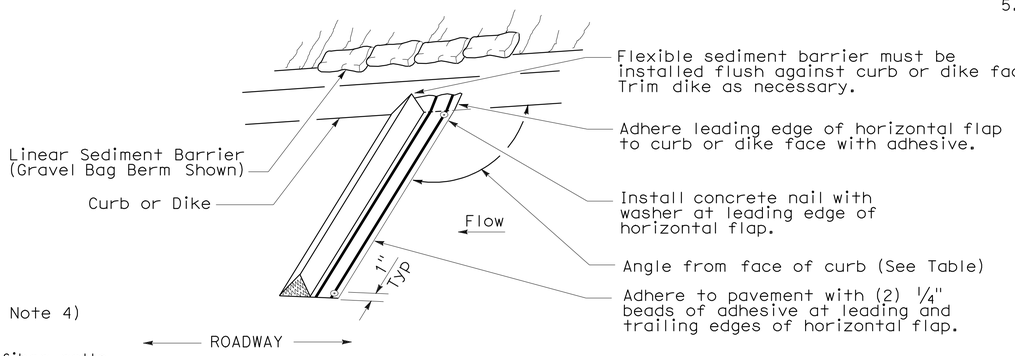


SECTION A-A



SECTION

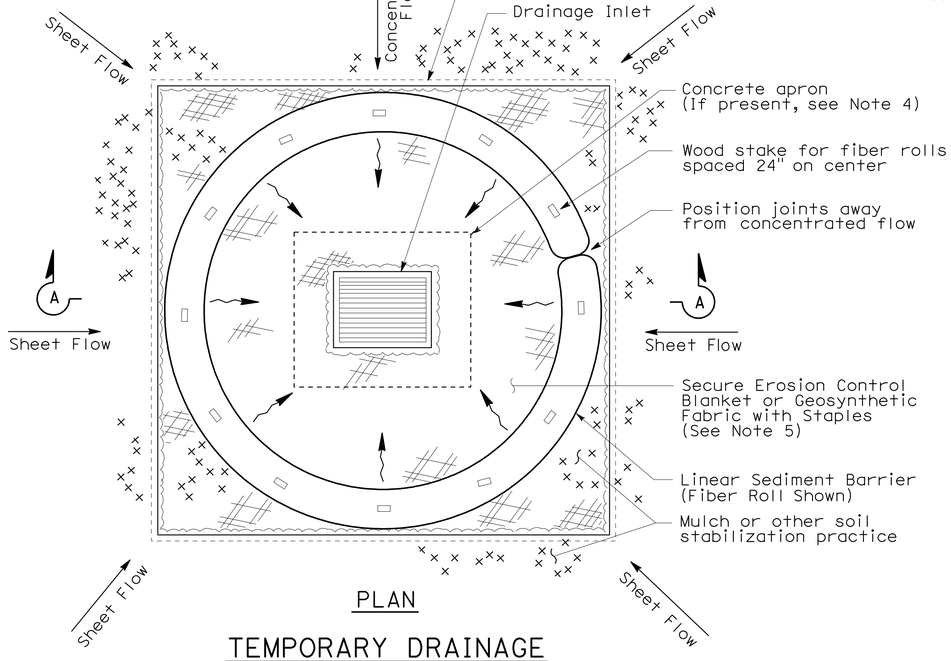
FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)



PERSPECTIVE

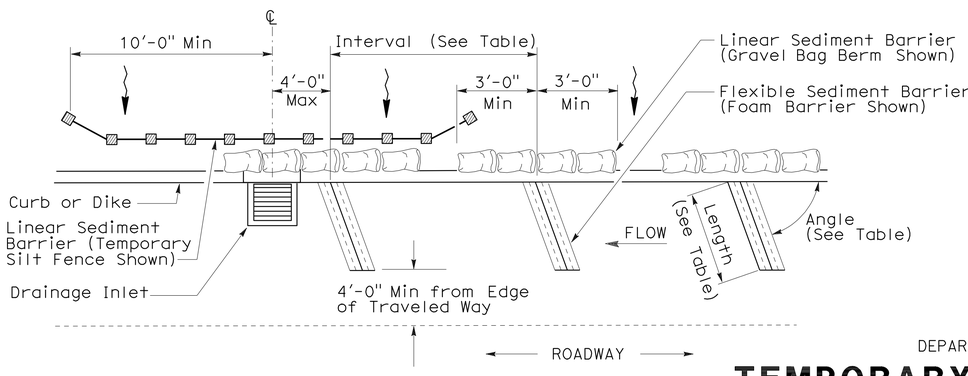
NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 flexible sediment barriers 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.



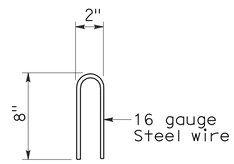
PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4B) FLEXIBLE SEDIMENT BARRIER



STAPLE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T63

2006 NEW STANDARD PLAN NSP T63

7-11-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	25	29

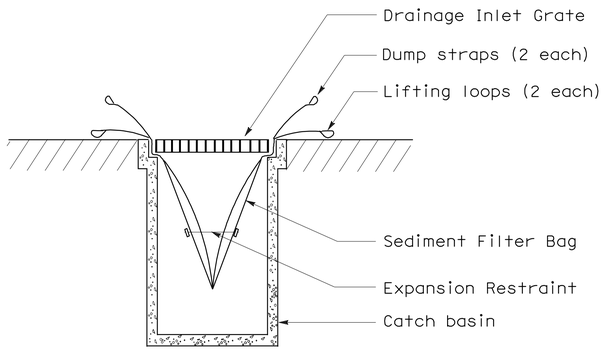
Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Robert B. Schott 3825 — Signature — 11-04-08 Renewal Date — 08-11-08 Date — STATE OF CALIFORNIA

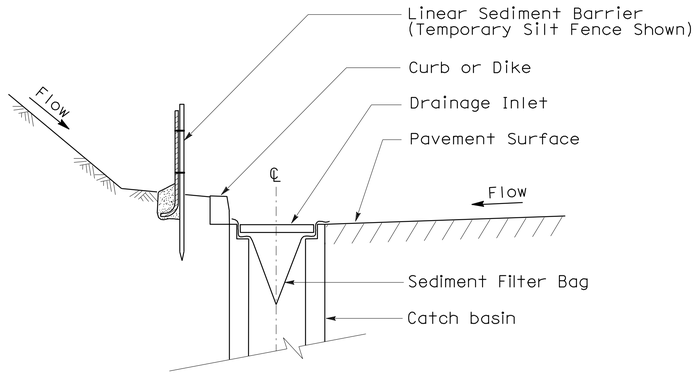
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-22-10

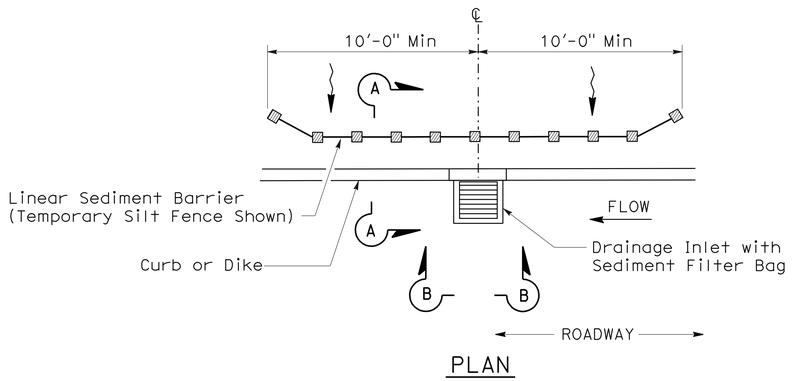


SECTION B-B

SEDIMENT FILTER BAG DETAIL

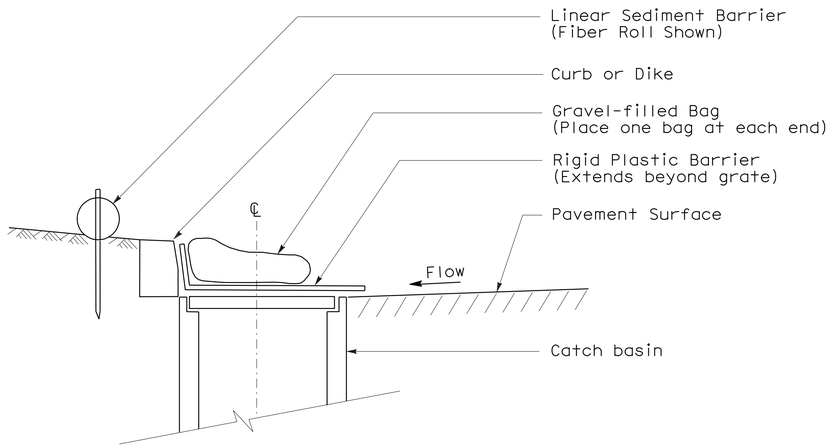


SECTION A-A



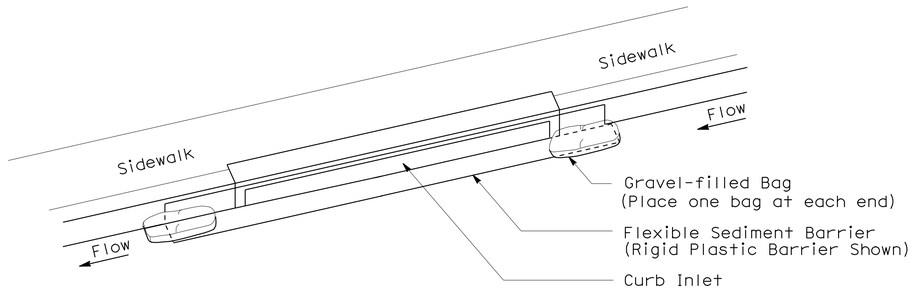
PLAN

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



SECTION

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



PERSPECTIVE

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

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T64

2006 NEW STANDARD PLAN NSP T64

7-11-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	26	29

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

April 3, 2009
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Robert B. Schott 3025 — Signature 11-30-10 Renewal Date 2-25-09 Date — STATE OF CALIFORNIA

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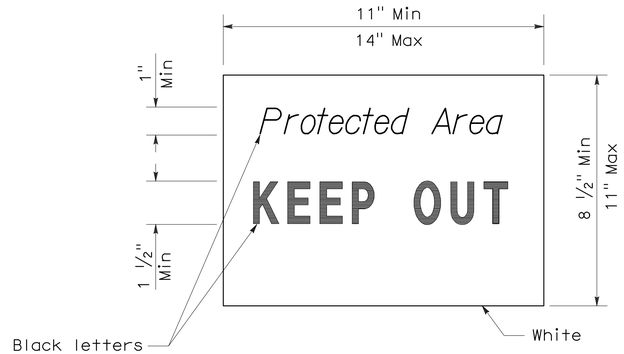
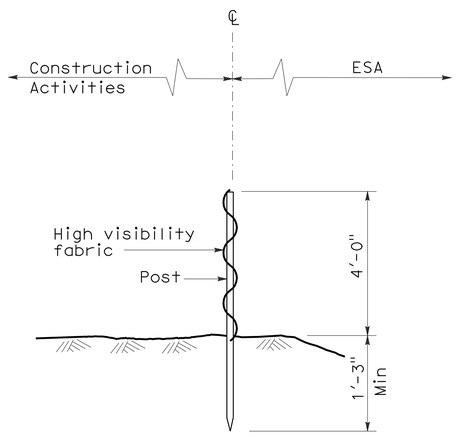
To accompany plans dated 2-22-10



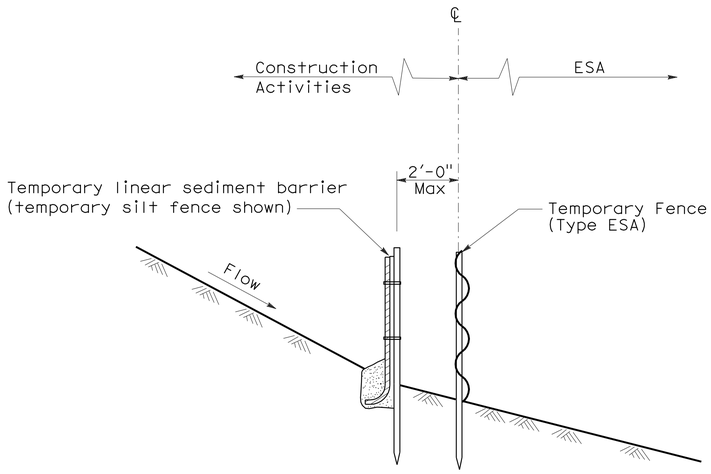
SIGN DETAIL

NOTE:

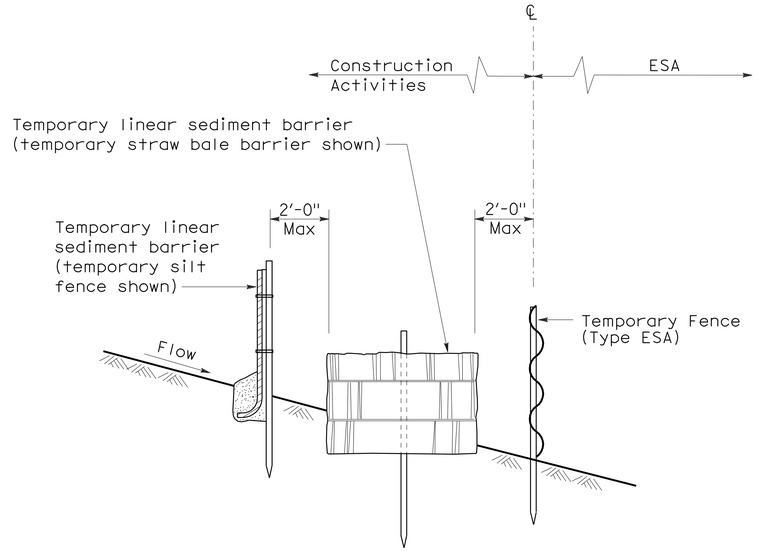
1. Temporary silt fence and temporary straw bale barrier shown for reference purposes only.



SECTION
TEMPORARY FENCE (TYPE ESA)



SECTION
PLACEMENT DETAIL
FOR TEMPORARY LINEAR SEDIMENT BARRIER
USED WITH TEMPORARY
FENCE (TYPE ESA)
(See Note 1)



SECTION
PLACEMENT DETAIL
FOR TEMPORARY SILT FENCE
AND TEMPORARY STRAW BALE BARRIER
USED WITH TEMPORARY FENCE (TYPE ESA)
(See Note 1)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

NEW STANDARD PLAN NSP T65

2006 NEW STANDARD PLAN NSP T65

1-7-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	27	29

Jeffrey G. McRae
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

October 5, 2007
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 2-22-10

ELECTROLIERS

STANDARD TYPES
15, 15D
15 STRUCTURE
21, 21D STRUCTURE
30
31
32
35
36-20A

High mast light pole

Double Arm lighting standard

Existing electrolier

Electrolier foundation (Future installation)

NOTES:

1. Luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31, 32, 35 and 36-20A Standards, unless otherwise specified. Luminaires shall be 200 W HPS when installed on other type standards or poles, unless otherwise specified.
2. Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.
3. Variations noted adjacent to symbol on project plans.

Electrolier (see project notes or project plans)

Luminaire on wood pole

STANDARD NOTES:

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

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

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

SOFFIT AND WALL MOUNTED LUMINAIRES

Pendant, 70 W HPS unless otherwise specified.

Flush, 70 W HPS unless otherwise specified.

Wall surface, 70 W HPS unless otherwise specified.

Existing soffit or wall luminaire to remain unmodified.

Existing soffit or wall luminaire to be modified as specified.

NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	28	29

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Jeffery G. McRae — No. E14512 — Exp. 6-30-08 — ELECTRICAL — STATE OF CALIFORNIA

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

To accompany plans dated 2-22-10

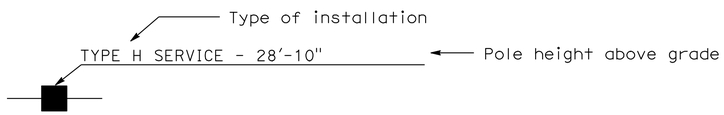
CONDUIT

PROPOSED	EXISTING	
— — —	— — —	Lighting Conduit, unless otherwise indicated or noted
— - — - —	— - — - —	Traffic signal conduit
—C— —	—c— —	Communication conduit
—T— —	—t— —	Telephone conduit
—F— —	—f— —	Fire alarm conduit
—FO— —	—fo— —	Fiber optic conduit
— — —]	— — —]	Conduit termination (RSP ES-9A C)
R	r	Conduit riser in/on structure or service pole

SERVICE EQUIPMENT

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

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

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

SIGNAL EQUIPMENT

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

SIGNAL EQUIPMENT Cont

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

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1B

2006 REVISED STANDARD PLAN RSP ES-1B

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	DN	199	R18.2/R18.6	29	29

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

October 5, 2007
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 2-22-10

EQUIPMENT IDENTIFICATION

ILLUMINATED SIGN IDENTIFICATION NUMBER:

Sign No. 12345 — Sign number - Place on post or structure

10 ISL SCI 1.0
- 1.0 — Transformer rating (kVA)
- SCI — Lighting control type
- ISL — Number and type of fixtures

Do NOT place on standard or structure

ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:

12345 - 15'-0"
- 15'-0" — Mast arm length, if shown. Do not place on standard or structure.
- 12345 — Equipment number - Place on standard or structure. Existing equipment numbers are shown in parenthesis

CONDUIT AND CONDUCTOR IDENTIFICATION:

1½"C, 2#10, 15#14, 2 DLC
- 2#10, 15#14, 2 DLC — Number and size of conductors and cables
- 1½"C, — Size of conduit in inches

Ø1, Ø2, Ø2P, etc.	Traffic phase identification for signal faces, detectors and phase diagrams
1 2 3	Project note numbers
A B C	Equipment description, installation or item numbers
1 2 3	Conduit run numbers

SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):

19A - 3 - 100
- 100 — Wind velocity = 100 mph
- 3 — Case 3 arm loading
- 19A — Standard type
- Standard Plan sheet number
- Detail number or letter

MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
CMS	cms	Changeable message sign
		Closed circuit television camera
		Highway advisory radio pole and antenna
EMS	ems	Extinguishable message sign
M V	m v	Detection device M = Microwave sensor V = Video image sensor

WIRING DIAGRAM LEGEND

P	Pole
CB	Circuit breaker
A	Ampere
V	Volt
M	Metered
UM	Unmetered
NB	Neutral bus
GB	Ground bus
G	Equipment grounding conductor
N	Grounded conductor (Neutral)

- External conductor
- Conductor or bus
- Tie point
- Contactor coil
- Contactor, Contact NO
- Terminal blocks
- Contactor, Contact NC
- Enclosure bond
- Grounding electrode
- Circuit breaker
- Receptacle

PULL BOXES

PROPOSED	EXISTING	
		Pull box-No. 5 unless otherwise indicated or noted.
3	9A(21)	Pull box-Additional designations or descriptions

3 = No. 3½ pull box
5 = No. 5 pull box
6 = No. 6 pull box
7 = No. 7 (Ceiling pull box)
8 = No. 8 (Pendant soffit pull box)
9 = No. 9 pull box
9A = No. 9A pull box

(C) = Communications pull box
(E) = Pull box with extension
(S) = Sprinkler control pull box
(21) = Anchor bolts and conduit for future installation of Type 21 Standard
(T) = Traffic pull box

VEHICLE DETECTORS

5 J 9 U
- 9 — Vehicle detector designation
- J — Input file (I or J)
- 5 — Slot number in input file
- U — Phase
- U = Upper, L = Lower

PROPOSED	EXISTING	
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type Q detector loop. Outline of sawcut shown.
		Magnetic detector
DH	dh	Detector handhole
		Microwave or video detection zone

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

7-10-07