Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Tri	299	8.0/15.0	1	13

ACSTPNH-P299(195)E

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

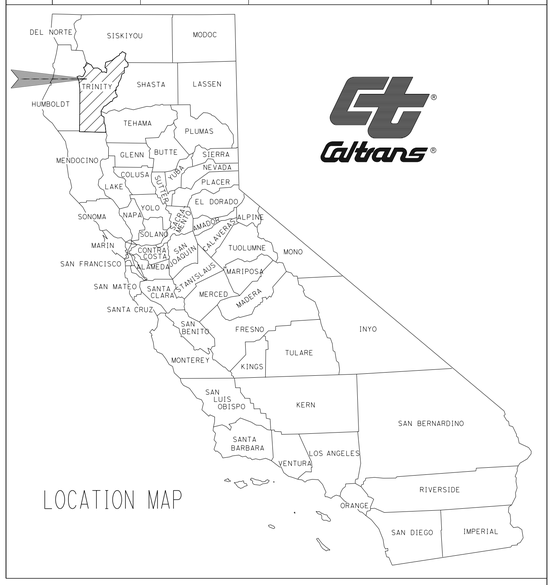
IN TRINITY COUNTY NEAR BURNT RANCH FROM 1.6 MILES EAST OF GRAY CREEK BRIDGE TO 0.9 MILE EAST OF TRINITY RIVER BRIDGE No. 05-0006

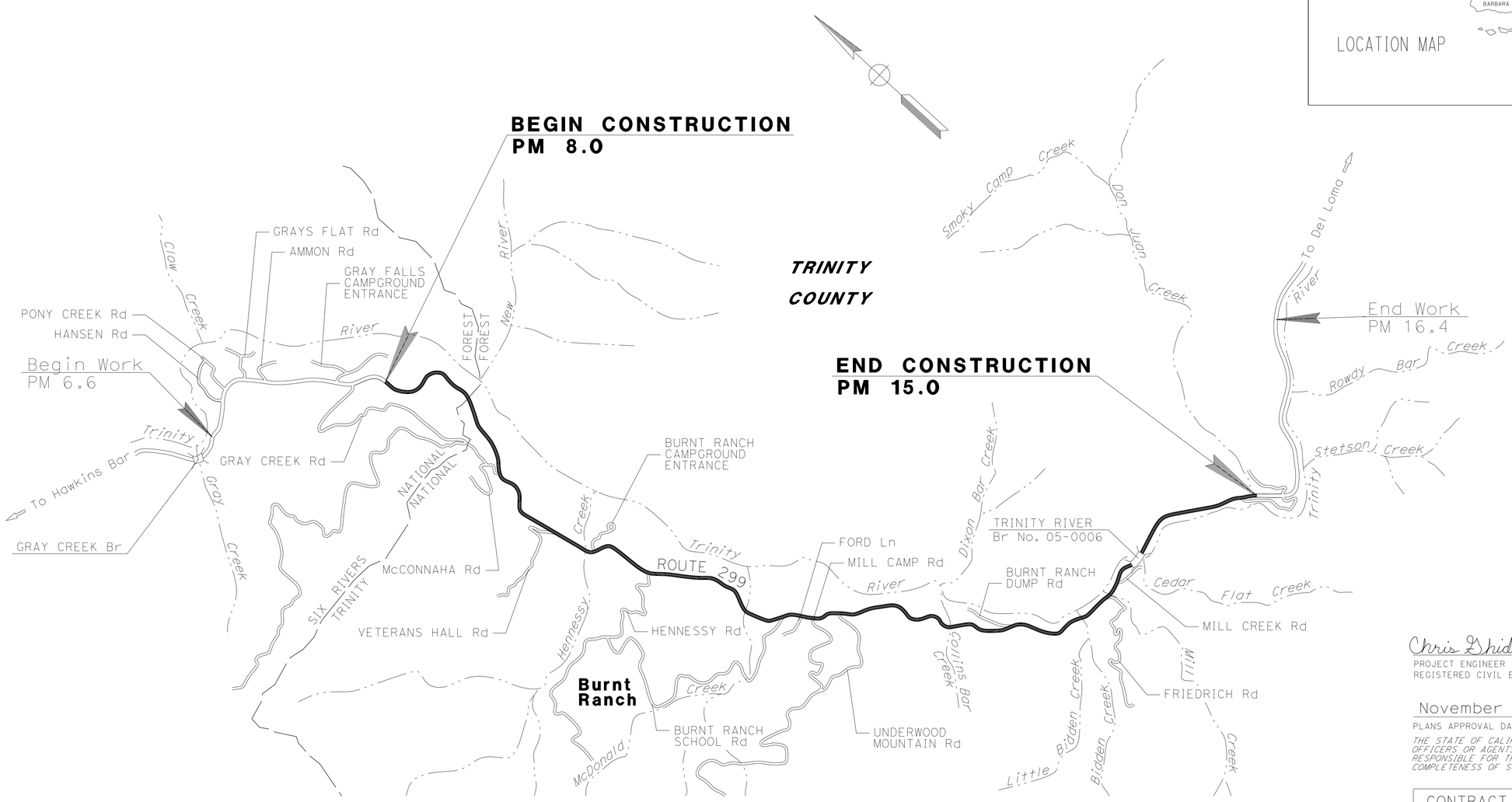
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-4	CONSTRUCTION DETAILS
5	CONSTRUCTION AREA SIGNS
6	TRAFFIC HANDLING PLAN
7	PAVEMENT DELINEATION QUANTITIES
8-10	SUMMARY OF QUANTITIES
11-13	REVISED STANDARD PLANS

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





PROJECT MANAGER: TOM FITZGERALD

DESIGN MANAGER: TOM FITZGERALD

Chris Ghidinelli 10-25-15
PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — CHRIS GHIDINELLI — No. 77294 — Exp. 6-30-17 — CIVIL — STATE OF CALIFORNIA

November 2, 2015
PLANS APPROVAL DATE

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

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

CONTRACT No.	01-0F0904
PROJECT ID	0115000065

LAST REVISION 06-05-15 — DATE PLOTTED => $DATE — TIME PLOTTED => $TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Tri	299	8.0/15.0	2	13

Chris Ghidinelli 10-25-15
REGISTERED CIVIL ENGINEER DATE

November 2, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS GHIDINELLI No. 77294 Exp. 6-30-17 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. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. IN AREAS WHERE THE WIDTH OF THE EXISTING SURFACING VARIES FROM THAT SHOWN, VARY THE WIDTH OF THE PAVING OPERATIONS AS DIRECTED BY THE ENGINEER.
4. FOR HMA DIKE TO BE REMOVED AND TYPE OF HMA DIKE PLACED, SEE SHEET Q-1.

PAVEMENT CLIMATE REGION

LOW MOUNTAIN

LEGEND:

RHMA-GG = RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
HMA-A = HOT MIX ASPHALT (TYPE A)

TYPICAL PAVEMENT STRUCTURAL SECTIONS

S-1: 0.10' RHMA-GG

E-1: Exist; Var 0.95'-1.85' AC

E-2: Exist; 0.08' OGAC; Var 0.52'-1.47' AC; Var 0.55'-2.20' AB

E-3: Exist; 0.08' OGAC; Var 0.30'-0.60' AC; Var 0.50'-1.00' AB

E-4: Exist; 0.80' AC

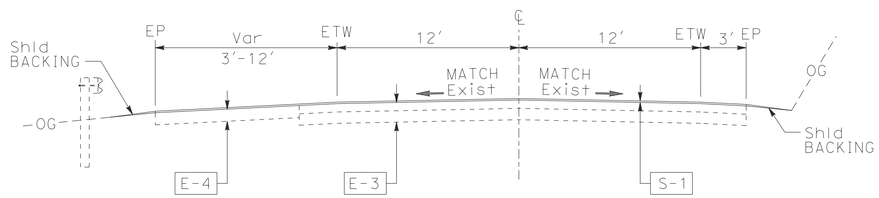
E-5: Exist; 0.08' OGAC; Var 0.37'-1.47' AC; Var 0.60'-2.25' AB

E-6: Exist; 0.08' OGAC; 0.47' AC; 1.15' AB

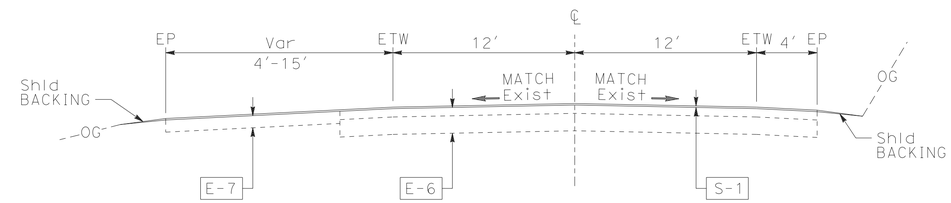
E-9: Exist; 0.08' OGAC; Var 0.47'-1.27' AC; Var 0.85'-1.95' AB

E-7: Exist; 0.80' AC

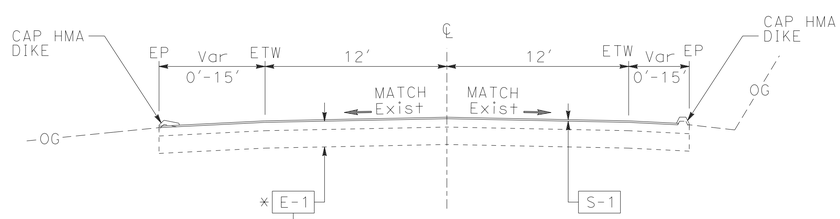
E-8: Exist; 0.08' OGAC; Var 0.37'-0.87' AC; Var 0.75'-2.00' AB



PM 10.70 TO 10.76

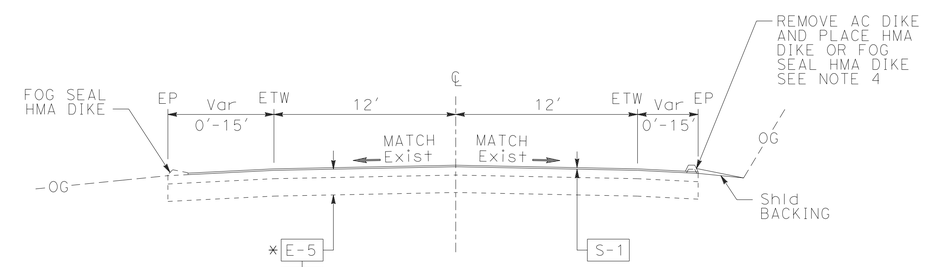


PM 13.68 TO 13.74



PM 8.00 TO 8.51
PM 8.51 TO 10.70
PM 10.76 TO 13.39

*STRUCTURAL SECTION E-1 FOR PM 8.00/8.51
STRUCTURAL SECTION E-2 FOR PM 8.51/10.70
STRUCTURAL SECTION E-5 FOR PM 10.76/13.68



PM 13.39 TO 13.68
PM 13.74 TO 14.01
PM 14.11 TO 15.00

**STRUCTURAL SECTION E-8 FOR PM 13.74/14.01
STRUCTURAL SECTION E-9 FOR PM 14.11/15.00

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

ROUTE 299

TYPICAL CROSS SECTIONS

NO SCALE

X-1

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

FUNCTIONAL SUPERVISOR: TOM FITZGERALD
CALCULATED-DESIGNED BY: JOHNATHON JACKSON
CHECKED BY: CHRIS GHIDINELLI
REVISED BY
DATE REVISED

LAST REVISION 01-26-15
DATE PLOTTED => $DATE
TIME PLOTTED => $TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Tri	299	8.0/15.0	3	13

Chris Ghidinelli 10-25-15
REGISTERED CIVIL ENGINEER DATE

November 2, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS GHIDINELLI No. 77294 Exp. 6-30-17 CIVIL STATE OF CALIFORNIA

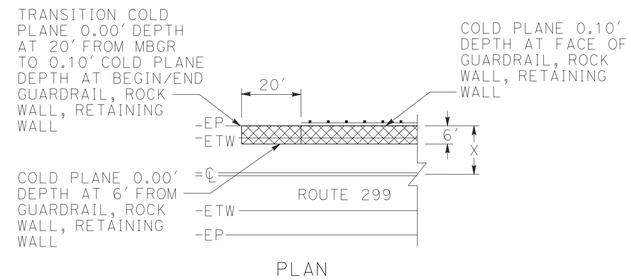
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

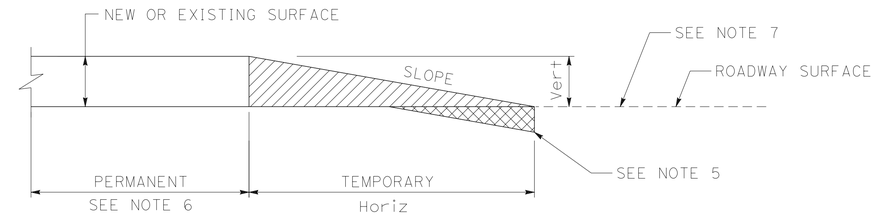
1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. GRIND EXISTING SURFACES TO ACCOMODATE A MINIMUM TAPER THICKNESS OF 0.10′ WHEN EITHER:
   A. HMA MATERIAL SUCH AS RUBBERIZED, POLYMER MODIFIED OR OPEN GRADED IS UNSUITABLE FOR RAKING TO A MAXIMUM 0.02′ THICKNESS AT THE CONFORM.
   B. TEMPORARY TAPER WILL BE IN PLACE FOR MORE THAN 14 DAYS.
3. PERMANENT SURFACE MAY BE EXISTING OR NEW PAVEMENT.
4. ROADWAY SURFACE IS THE TOP OF EXISTING SURFACE OR THE TOP OF THE PLANED SURFACE.
5. IF AUTHORIZED, YOU MAY USE ALTERNATIVE MATERIALS OR METHODS TO PRODUCE THE REQUIRED TAPER.

LEGEND:

- LIMITS OF COLD PLANE AC PAVEMENT PRIOR TO RHMA-GG OVERLAY
- LIMITS OF SURFACING
- LIMITS OF REPLACE AC SURFACING

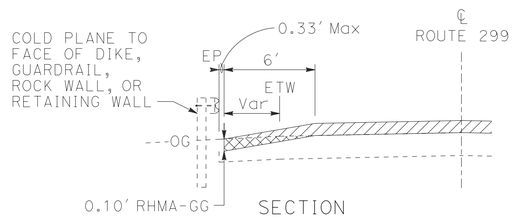


PLAN



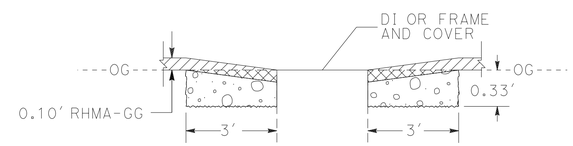
Vert	SLOPE RATIO Horiz/Vert
0-0.10′	70:1
GREATER THAN 0.10′	160:1

TYPICAL PAVING CONFORM FOR TEMPORARY CONSTRUCTION TAPERS

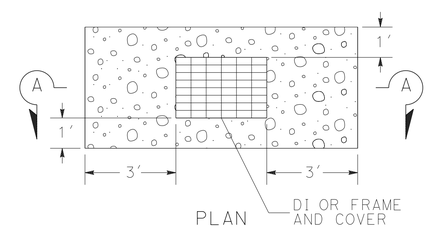


SECTION

AC PAVEMENT WIDTH AT DIKE AND MBGR COLD PLANE LOCATIONS



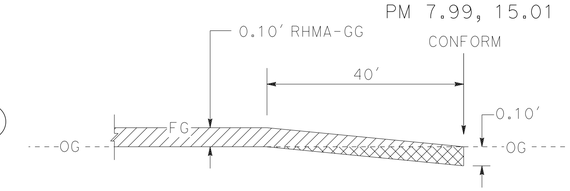
SECTION A-A



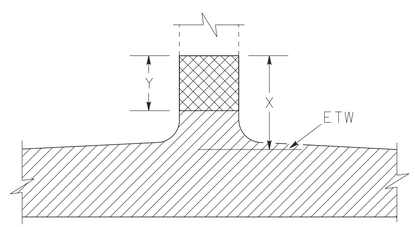
PLAN

REPLACE AC SURFACING

PM 7.99, 15.01

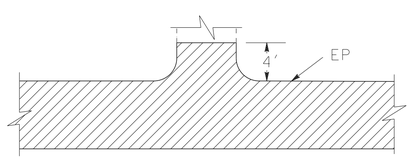


COLD PLANE AC PAVEMENT AT PROJECT CONFORM



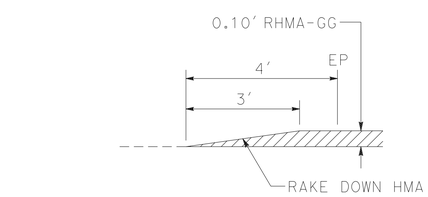
LIMITS OF SURFACING FOR PUBLIC ROAD CONNECTIONS

LOCATION	PM	X	Y
		FT	
VETERAN'S HALL Rd	9.74 R+	16	6
BURNT RANCH CAMPGROUND ENTRANCE	10.05 L+	16	6
HENNESSEY Rd	10.45 R+	26	20
BURNT RANCH SCHOOL Rd	11.44 R+	132	20
UNDERWOOD MOUNTAIN Rd	11.80 R+	36	20
FRIEDRICH Rd	13.74 R+	11	11

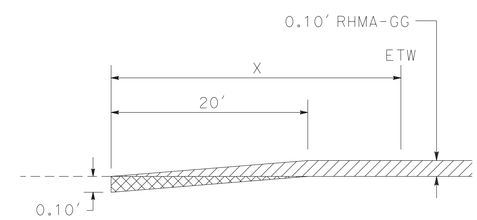


LIMITS OF SURFACING FOR PRIVATE ROAD CONNECTIONS

DESCRIPTION	LOCATION (PM)		X
	FROM	TO	(FT)
COLD PLANE AT GUARD RAIL	8.10 L+	8.22 L+	14
COLD PLANE AT GUARD RAIL	8.25 L+	8.30 L+	14
COLD PLANE AT DIKE	8.39 L+	8.55 L+	14
COLD PLANE AT GUARD RAIL AND DIKE	8.58 L+	8.63 L+	14
COLD PLANE AT DIKE	8.65 L+	8.69 L+	14
COLD PLANE AT GUARD RAIL	10.67 L+	10.72 L+	14
COLD PLANE AT DIKE	10.73 L+	10.80 L+	14
COLD PLANE AT GUARD RAIL	10.91 L+	11.03 L+	14
COLD PLANE AT DIKE	11.06 L+	11.12 L+	13
COLD PLANE AT DIKE	11.14 L+	11.25 L+	13
COLD PLANE AT DIKE	12.10 L+	12.21 L+	14
COLD PLANE AT DIKE	12.30 R+	12.35 R+	14
COLD PLANE AT DIKE	12.50 L+	12.64 L+	14
COLD PLANE AT GUARD RAIL AND DIKE	12.59 R+	12.63 R+	14
COLD PLANE AT DIKE	12.69 L+	12.73 L+	14
COLD PLANE AT DIKE	13.07 L+	13.16 L+	14
COLD PLANE AT GUARD RAIL	13.16 R+	13.31 R+	14
COLD PLANE AT GUARD RAIL	13.29 L+	13.38 L+	14
COLD PLANE AT GUARD RAIL	13.32 R+	13.36 R+	16
COLD PLANE AT DIKE	13.52 R+	13.55 R+	16
COLD PLANE AT DIKE	13.43 L+	13.50 L+	16
COLD PLANE AT GUARD RAIL	13.63 R+	13.75 R+	16
COLD PLANE AT GUARD RAIL	13.71 L+	13.76 L+	16
COLD PLANE AT GUARD RAIL	13.75 L+	13.78 L+	15
COLD PLANE AT DIKE	13.75 R+	13.79 R+	15



HMA CONFORM AT PRIVATE ROAD CONNECTIONS



COLD PLANE AC PAVEMENT AT PUBLIC ROAD CONNECTIONS

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: TOM FITZGERALD
CALCULATED-DESIGNED BY: JOHNATHON JACKSON
CHECKED BY: CHRIS GHIDINELLI
REVISED BY
DATE REVISED

LAST REVISION 01-26-15 | DATE PLOTTED => $DATE | TIME PLOTTED => $TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Tri	299	8.0/15.0	4	13

Chris Ghidinelli 10-25-15
REGISTERED CIVIL ENGINEER DATE

November 2, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS GHIDINELLI No. 77294 Exp. 6-30-17 CIVIL STATE OF CALIFORNIA

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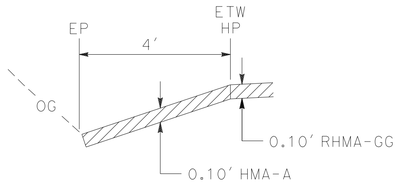
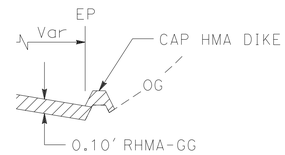


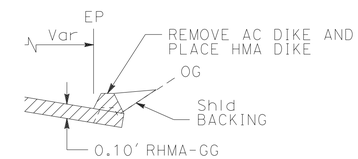
LOCATION	PM	
	TO	FROM
EB Shld	8.10	8.13

HMA CONFORM
EXISTING PAVED DITCH WITHOUT DIKE



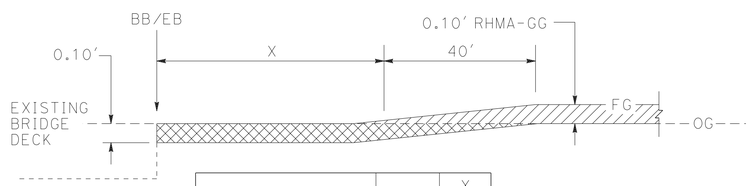
LOCATION	DIKE	PM	
		TO	FROM
WB Shld	TYPE E	8.15	8.25
EB Shld	TYPE A	8.29	8.32
WB Shld	TYPE E	9.10	9.25
WB Shld	TYPE E	9.40	9.50
WB Shld	TYPE E	9.58	9.60
WB Shld	TYPE E	9.98	10.01
WB Shld	TYPE E	10.23	10.33
WB Shld	TYPE E	10.46	10.54
WB Shld	TYPE E	11.30	11.38

HMA DIKE
CAP HMA DIKE



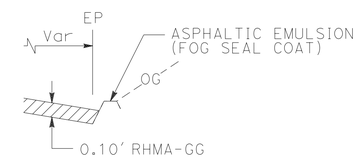
LOCATION	DIKE	PM	
		TO	FROM
EB Shld	TYPE A	14.16	14.24

HMA DIKE
REMOVE AND PLACE HMA DIKE



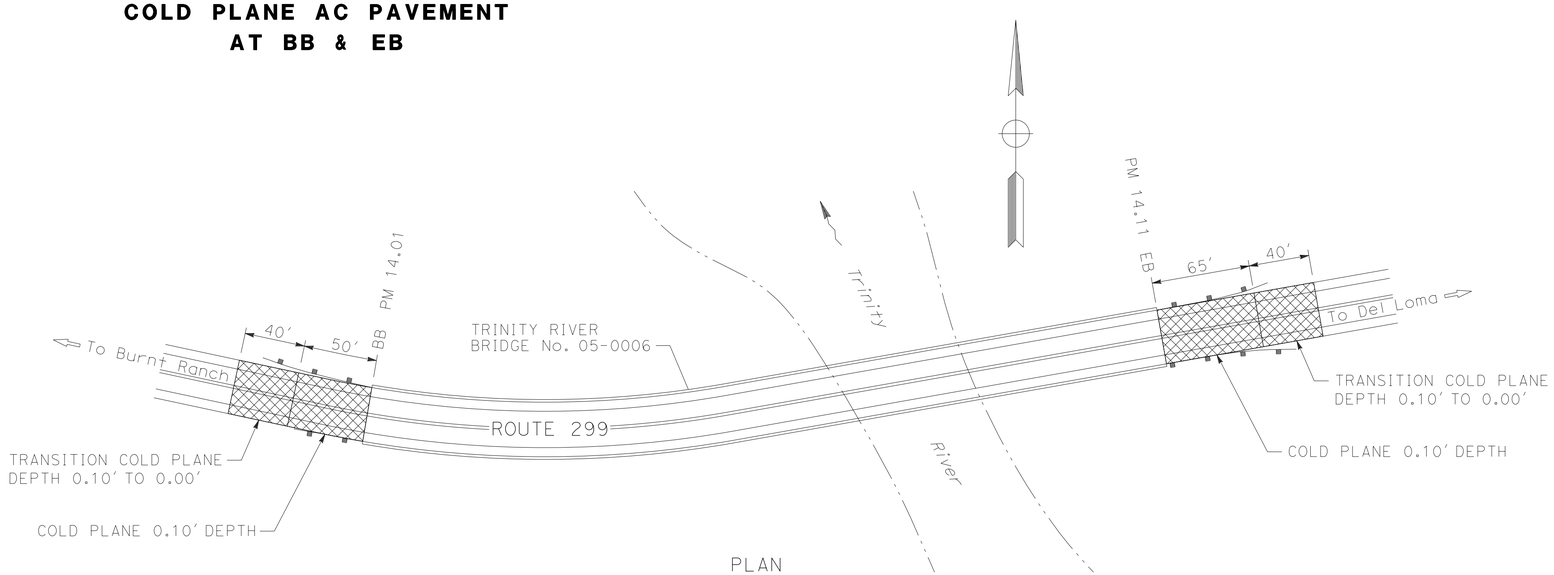
LOCATION	PM	X
		FT
BB TRINITY RIVER	14.01	50
EB TRINITY RIVER	14.11	65

COLD PLANE AC PAVEMENT
AT BB & EB



LOCATION	DIKE	PM	
		TO	FROM
EB Shld	TYPE A	13.39	13.44
EB Shld	TYPE A	13.44	13.52
WB Shld	TYPE E	13.50	13.61
EB Shld	TYPE A	13.55	13.64
WB Shld	TYPE E	13.61	13.69
EB Shld	TYPE A	13.87	13.98
EB Shld	TYPE A	14.16	14.24

HMA DIKE
FOG SEAL HMA DIKE



PLAN

COLD PLANE TRINITY RIVER CONFORMS
BRIDGE No. 05-0006

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: TOM FITZGERALD
CALCULATED-DESIGNED BY: JOHNATHON JACKSON
CHECKED BY: CHRIS GHIDINELLI
REVISED BY
DATE REVISED

LAST REVISION 04-21-15
DATE PLOTTED => $DATE
TIME PLOTTED => $TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Tri	299	8.0/15.0	5	13

Chris Ghidinelli 10-25-15
REGISTERED CIVIL ENGINEER DATE

November 2, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS GHIDINELLI No. 77294 Exp. 6-30-17 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:

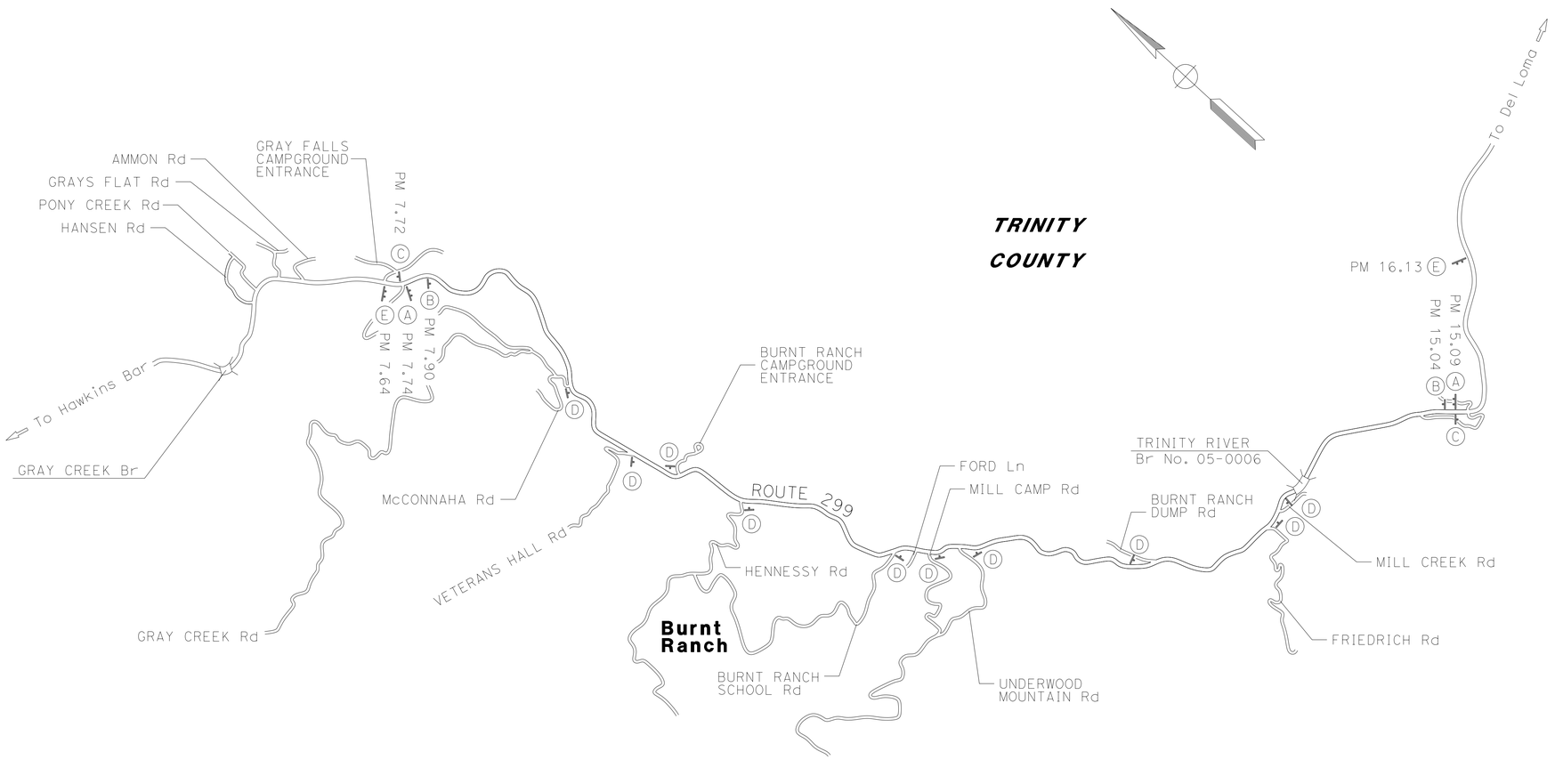
1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
A	G20-1	ROAD WORK NEXT 7 MILES	60" x 36"	2-4" x 6"	2
	C23B(CA)	RESURFACING	60" x 18"		
B	W11-1	BICYCLE SYMBOL	36" x 36"	1-4" x 6"	2
	W16-1	SHARE THE ROAD	24" x 30"		
C	G20-2	END ROAD WORK	36" x 18"	1-4" x 4"	2
D	W20-1	ROAD WORK AHEAD	36" x 36"	1-4" x 6"	10
E	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	108" x 42"	2-6" x 6"	2

C23B(CA)
60"x18"
BLACK/ORANGE
4" CAPS

RESURFACING



EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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

FUNCTIONAL SUPERVISOR: TOM FITZGERALD
CALCULATED-DESIGNED BY: JOHNATHON JACKSON
CHECKED BY: CHRIS GHIDINELLI
REVISED BY / DATE REVISED

LAST REVISION 06-11-15 | DATE PLOTTED => $DATE | TIME PLOTTED => $TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Tri	299	8.0/15.0	6	13

Sheri M. Rodriguez 3-5-15
REGISTERED CIVIL ENGINEER DATE

November 2, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SHERI M. RODRIGUEZ No. C66861 Exp. 9-30-16 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:

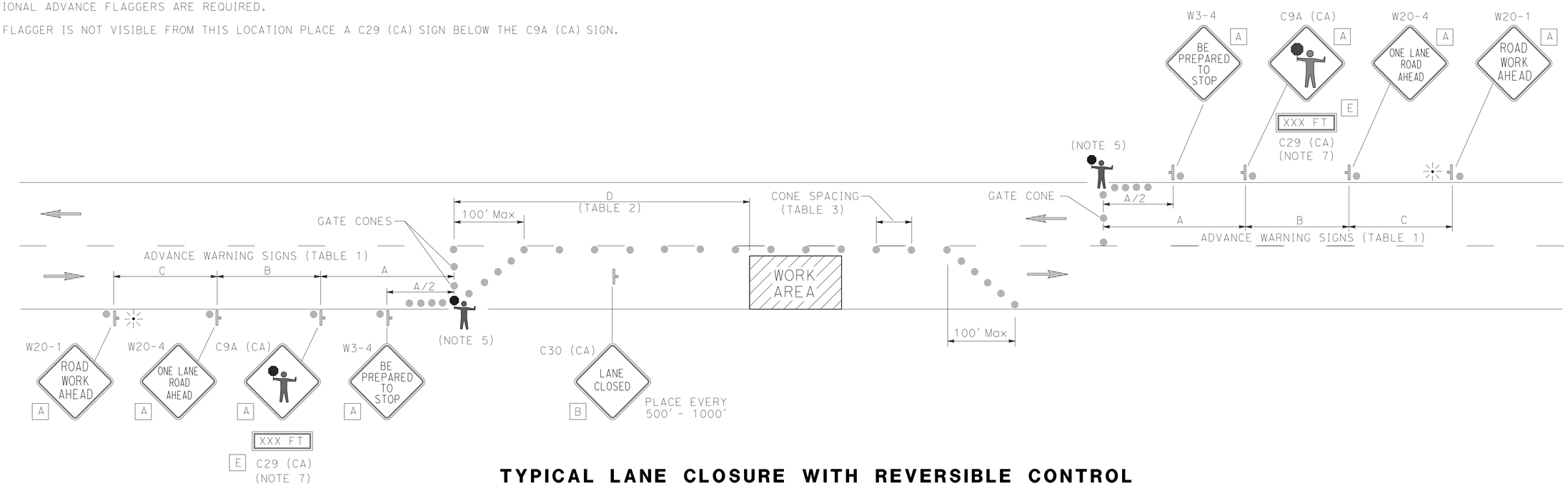
1. CALIFORNIA CODES ARE DESIGNATED BY (CA). OTHERWISE, FEDERAL (MUTCD) CODES ARE SHOWN.
2. ALL SIGNS SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE BACKGROUND AND SHALL BE EQUIPPED WITH AT LEAST TWO 16" x 16" ORANGE FLAGS FOR DAYTIME CLOSURE OR FLASHING BEACONS FOR LANE CLOSURE DURING HOURS OF DARKNESS.
3. ALL CONES USED FOR LANE CLOSURES DURING THE HOURS OF DARKNESS SHALL BE FITTED WITH RETROREFLECTIVE BANDS OR SLEEVES.
4. WHEN A PILOT CAR IS USED, PLACE A C37 (CA) SIGN AT ALL INTERSECTIONS WITHIN TRAFFIC CONTROL AREA. WHERE VEHICULAR TRAFFIC CAN NOT EFFECTIVELY SELF-REGULATE, AT LEAST ONE FLAGGER SHALL BE USED AT EACH INTERSECTION WITHIN THE TRAFFIC CONTROL AREA.
5. FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, FACING TRAFFIC AT ALL TIMES, BE VISIBLE TO APPROACHING TRAFFIC AS WELL AS APPROACHING VEHICLES AFTER THE FIRST VEHICLE HAS STOPPED.
6. ADDITIONAL ADVANCE FLAGGERS ARE REQUIRED.
7. WHEN FLAGGER IS NOT VISIBLE FROM THIS LOCATION PLACE A C29 (CA) SIGN BELOW THE C9A (CA) SIGN.

LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- DIRECTION OF TRAVEL
- PORTABLE FLASHING BEACON
- FLAGGER

SIGN PANEL SIZE (MINIMUM)

- A 48" x 48" - SPEED OF 45 mph OR MORE; 36" x 36" - SPEED LESS THAN 45 mph
- B 30" x 30"
- C UNUSED
- D UNUSED
- E 20" x 7"



TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TABLE 1

ADVANCE WARNING SIGN SPACING

ROAD TYPE	Min A	Min B	Min C
	ft		
URBAN (25 mph OR LESS)	100	100	100
URBAN (30 mph TO 40 mph)	250	250	250
URBAN (MORE THAN 40 mph)	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

TABLE 2

BUFFER SPACE

APPROACH SPEED	Min D	DOWNGRADE Min D		
		-3%*	-6%*	-9%*
mph	ft			
25 & BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

TABLE 3

Max CONE SPACING

POSTED SPEED	TAPER	TANGENT	CONFLICT*
mph	ft		
20	20	40	10
25	25	50	12
30	30	60	15
35	35	70	17
40	40	80	20
45	45	90	22
50	50	100	25
55	55	110	27
60	60	120	30
65	65	130	32

* USE WHERE THERE IS A CONFLICT BETWEEN EXISTING PAVEMENT MARKINGS AND CHANNELIZERS.

TRAFFIC HANDLING PLAN

NO SCALE

TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

REVISED BY | DATE REVISED
SHERI M. RODRIGUEZ | TROY A. ARSENEAU
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RICHARD MULLEN

$REQUEST
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

LAST REVISION 00-00-00 | DATE PLOTTED => $DATE | TIME PLOTTED => $TIME

BORDER LAST REVISED 7/2/2010 | USERNAME => $USER | DGN FILE => $REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0042 | PROJECT NUMBER & PHASE 01150000651

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Tri	299	8.0/15.0	7	13

Chris Ghidinelli 10-25-15
REGISTERED CIVIL ENGINEER DATE

November 2, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS GHIDINELLI No. 77294 Exp. 6-30-17 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.

TRAFFIC STRIPE AND PAVEMENT MARKER QUANTITIES

LOCATION (PM)		DETAIL NUMBER	DETAIL LENGTH	THERMOPLASTIC TRAFFIC STRIPE					PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)			REMARKS
				REMOVE	8 INCH WHITE	4 INCH YELLOW	4 INCH WHITE	4 INCH WHITE (BROKEN 12-3)	REMOVE (N)	TYPE D	TYPE G	
FROM	TO		LF	LF	LF	LF	LF	LF	EA	EA	EA	
7.99	9.74	22	9,240			18,480			772	772		
7.99 L+	10.01 L+	27B	10,666				10,666					
7.99 R+	8.00 R+	38A	20	40	20							MILE MARKER LINE
8.00 R+	8.13 R+	27B	686				686					
8.14 R+	8.24 R+	38	528				528		22		22	TURNOUT
8.25 R+	9.00 R+	27B	3,960				3,960					
9.00 R+	9.01 R+	38A	20	40	20							MILE MARKER LINE
9.01 R+	9.74 R+	27B	3,854				3,854					
9.74 R+	9.76 R+	27C	106					106				VETERANS HALL Rd
9.75	10.03	22	1,478			2,956			126	126		
9.76 R+	10.00 R+	27B	1,267				1,267					
10.00 R+	10.01 R+	38A	20	40	20							MILE MARKER LINE
10.01 L+	10.04 L+	27C	158					158				BURNT RANCH CAMPGROUND ENTRANCE
10.01 R+	10.43 R+	27B	2,218				2,218					
10.04	10.45	22	2,165			4,330			184	184		
10.04 L+	10.70 L+	27B	3,485				3,485					
10.43 R+	10.47 R+	27C	211					211				HENNESSY Rd
10.45 R+		22	22			44			4	4		HENNESSY Rd
10.46	11.44	22	5,174			10,348			434	434		
10.47 R+	11.00 R+	27B	2,798				2,798					
10.71 L+	10.75 L+	38	211				211		9		9	TURNOUT
10.76 L+	13.70 L+	27B	15,523				15,523					
11.00 R+	11.01 R+	38A	20	40	20							MILE MARKER LINE
11.01 R+	11.43 R+	27B	2,218				2,218					
11.43 R+	11.45 R+	27C	106					106				BURNT RANCH SCHOOL Rd
11.44 R+		22	116			232			12	12		BURNT RANCH SCHOOL Rd
11.45	11.80	22	1,848			3,696			156	156		
11.45 R+	11.79 R+	27B	1,795				1,795					
11.79 R+	11.81 R+	27C	106					106				UNDERWOOD MOUNTAIN Rd
11.80 R+		22	19			38			4	4		UNDERWOOD MOUNTAIN Rd
11.81	14.01	22	11,616			23,232			970	970		
11.81 R+	12.00 R+	27B	1,003				1,003					
12.00 R+	12.01 R+	38A	20	40	20							MILE MARKER LINE
12.01 R+	13.00 R+	27B	5,227				5,227					
13.00 R+	13.01 R+	38A	20	40	20							MILE MARKER LINE
13.01 R+	14.00 R+	27B	5,227				5,227					
13.70 L+	13.73 L+	38	158				158		7		7	TURNOUT
13.73 L+	15.01 L+	27B	6,758				6,758					
14.00 R+	14.01 R+	38A	20	40	20							MILE MARKER LINE
14.01 R+	15.00 R+	27B	5,227				5,227					
14.01	14.11	22	528			1,056			46	46		TRINITY RIVER Br
14.11	15.01	22	4,752			9,504			398	398		
15.00 R+	15.01 R+	38A	20	40	20							MILE MARKER LINE
			SUBTOTAL	320	160	73,916	72,809	687	3,144	3,106	38	
			TOTAL	320	160	146,725		687	3,144	3,144		

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

PAVEMENT DELINEATION QUANTITIES
PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: TOM FITZGERALD
CALCULATED-DESIGNED BY: JOHNATHON JACKSON
CHECKED BY: CHRIS GHIDINELLI
REVISED BY
DATE REVISED

LAST REVISION 06-11-15
DATE PLOTTED => $DATE
TIME PLOTTED => $TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Tri	299	8.0/15.0	8	13

Chris Ghidinelli 10-25-15
REGISTERED CIVIL ENGINEER DATE

November 2, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS GHIDINELLI No. 77294 Exp. 6-30-17 CIVIL STATE OF CALIFORNIA

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PAVEMENT MARKING QUANTITIES

LOCATION (PM)	ORIENTATION	LEGEND	REMOVE THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING (PAINT)	REMARKS
			SQFT	SQFT	SQFT	
9.74 R+	FNBT	LIMIT LINE	38	38	38	VETERANS HALL Rd
9.74 R+	FNBT	STOP		22	22	VETERANS HALL Rd
10.45 R+	FNBT	LIMIT LINE	40	40	40	HENNESSEY Rd
10.45 R+	FNBT	(2) STOP	44	44	44	HENNESSEY Rd
11.44 R+	FNBT	LIMIT LINE	26	26	26	BURNT RANCH SCHOOL Rd
11.44 R+	FNBT	STOP	22	22	22	BURNT RANCH SCHOOL Rd
11.80 R+	FNBT	LIMIT LINE	20	20	20	UNDERWOOD MOUNTAIN Rd
11.80 R+	FNBT	STOP	22	22	22	UNDERWOOD MOUNTAIN Rd
13.74 R+	FNBT	LIMIT LINE	16	16	16	FREIDRICH Rd
13.74 R+	FNBT	STOP		22	22	FREIDRICH Rd
		TOTAL	228	272	272	

DIKE QUANTITIES

LOCATION (PM)		MINOR HOT MIX ASPHALT	ASPHALTIC EMULSION (FOG SEAL COAT)	REMOVE AC DIKE	PLACE HMA DIKE (TYPE A)	CAP HOT MIX ASPHALT DIKE	REMARKS
FROM	TO	TON	TON	LF	LF	LF	
8.15 L+	8.25 L+	5.5				528	CAP DIKE (TYPE E)
8.29 R+	8.32 R+	5.1				459	CAP DIKE (TYPE A)
9.10 L+	9.25 L+	8.2				793	CAP DIKE (TYPE E)
9.40 L+	9.50 L+	5.5				528	CAP DIKE (TYPE E)
9.58 L+	9.60 L+	1.1				106	CAP DIKE (TYPE E)
9.98 L+	10.01 L+	1.7				159	CAP DIKE (TYPE E)
10.23 L+	10.33 L+	5.5				528	CAP DIKE (TYPE E)
10.46 L+	10.54 L+	4.4				423	CAP DIKE (TYPE E)
11.30 L+	11.38 L+	4.4				423	CAP DIKE (TYPE E)
13.39 R+	13.44 R+	6.3	0.1				FOG SEAL DIKE
13.44 R+	13.52 R+	8.1	0.1				FOG SEAL DIKE
13.50 L+	13.61 L+	6.0	0.1				FOG SEAL DIKE
13.55 R+	13.64 R+	8.7	0.1				FOG SEAL DIKE
13.61 L+	13.69 L+	4.4	0.1				FOG SEAL DIKE
13.87 R+	13.98 R+	9.8	0.1				FOG SEAL DIKE
14.16 R+	14.24 R+	8.1		723	723		REMOVE AND REPLACE DIKE
	TOTAL	92.8*	0.6	723	723	3947	

*SEE SHEET Q-3 FOR HMA (TYPE A) TOTAL QUANTITIES

SHOULDER BACKING QUANTITIES

LOCATION (PM)		SHOULDER BACKING	LOCATION (PM)		SHOULDER BACKING
FROM	TO	TON	FROM	TO	TON
8.00 L+	8.02 L+	5	11.11 L+	11.12 L+	3
8.03 L+	8.11 L+	19	11.12 R+	11.21 R+	21
8.13 R+	8.35 R+	51	11.21 L+	11.26 L+	12
8.22 L+	8.26 L+	10	11.24 R+	11.29 R+	12
8.30 L+	8.40 L+	23	11.27 L+	11.28 L+	3
8.35 R+	8.44 R+	21	11.29 R+	11.36 R+	16
8.44 R+	8.51 R+	16	11.35 L+	11.59 L+	55
8.51 R+	8.62 R+	26	11.43 R+	11.44 R+	3
8.53 L+	8.59 L+	14	11.44 R+	11.45 R+	3
8.62 L+	8.66 L+	10	11.54 R+	11.74 R+	46
8.65 R+	8.67 R+	5	11.61 L+	11.74 L+	30
8.70 L+	8.88 L+	42	11.74 R+	11.80 R+	14
8.77 R+	8.80 R+	7	11.76 L+	12.09 L+	76
8.80 R+	8.84 R+	10	11.80 R+	11.82 R+	5
8.89 R+	8.92 R+	7	11.92 R+	11.96 R+	10
8.90 L+	9.01 L+	26	12.18 L+	12.24 L+	14
8.94 R+	9.00 R+	14	12.26 L+	12.49 L+	53
9.00 R+	9.08 R+	19	12.29 R+	12.31 R+	5
9.02 L+	9.11 L+	21	12.34 R+	12.35 R+	3
9.08 R+	9.26 R+	42	12.39 R+	12.46 R+	16
9.12 L+	9.29 L+	39	12.61 R+	12.63 R+	5
9.38 R+	9.54 R+	37	12.62 L+	12.68 L+	14
9.38 L+	9.47 L+	21	12.70 L+	12.88 L+	42
8.48 L+	9.58 L+	23	12.77 R+	12.87 R+	23
9.60 L+	9.68 L+	19	12.80 R+	13.09 R+	67
9.66 R+	9.73 R+	16	12.99 L+	13.01 L+	5
9.71 L+	9.75 L+	10	13.03 L+	13.08 L+	12
9.97 L+	10.03 L+	14	13.10 R+	13.12 R+	5
9.98 R+	10.08 R+	23	13.15 L+	13.18 L+	7
10.05 L+	10.23 L+	42	13.17 R+	13.18 R+	3
10.15 R+	10.34 R+	44	13.19 L+	13.24 L+	12
10.24 L+	10.25 L+	3	13.21 R+	13.23 R+	5
10.29 L+	10.31 L+	5	13.25 L+	13.29 L+	10
10.34 R+	10.44 R+	23	13.31 L+	13.45 L+	32
10.36 L+	10.40 L+	10	13.32 R+	13.35 R+	7
10.42 L+	10.46 L+	10	13.36 R+	13.40 R+	10
10.44 R+	10.45 R+	3	13.46 L+	13.49 L+	7
10.45 R+	10.55 R+	23	13.50 L+	13.66 L+	37
10.46 L+	10.51 L+	12	13.68 L+	13.76 L+	19
10.51 L+	10.53 L+	5	13.77 L+	13.87 L+	23
10.53 L+	10.63 L+	23	13.88 L+	14.00 L+	28
10.57 R+	10.64 R+	16	13.98 R+	14.00 R+	5
10.64 R+	10.73 R+	21	14.13 R+	15.00 R+	199
10.64 L+	10.89 L+	58	14.13 L+	14.16 L+	7
10.73 R+	10.83 R+	23	14.24 L+	14.28 L+	10
10.83 R+	10.95 R+	28	14.28 L+	14.41 L+	30
10.91 L+	10.93 L+	5	14.41 L+	14.50 L+	21
10.96 R+	11.11 R+	35	14.51 L+	14.64 L+	30
10.96 L+	10.98 L+	5	14.81 L+	14.85 L+	10
10.99 L+	11.05 L+	14	14.88 L+	14.94 L+	14
11.09 L+	11.10 L+	3	14.96 L+	14.98 L+	5
SUBTOTAL		1001	SUBTOTAL		1104
			TOTAL		2105

REPLACE AC SURFACING

LOCATION (PM)	VOLUME	REMARKS
	CY	
8.10 R+	0.2	TYPE GO DI ON EB Shld
8.35 R+	0.2	TYPE GO DI ON EB Shld
8.44 R+	0.2	TYPE GO DI ON EB Shld
8.51 R+	0.2	TYPE GO DI ON EB Shld
8.72 R+	0.2	TYPE GO DI ON EB Shld
8.80 R+	0.2	TYPE GO DI ON EB Shld
8.89 R+	0.2	TYPE GO DI ON EB Shld
8.94 R+	0.2	TYPE GO DI ON EB Shld
9.00 R+	0.2	TYPE GO DI ON EB Shld
9.08 R+	0.2	TYPE GO DI ON EB Shld
9.66 R+	0.2	TYPE GO DI ON EB Shld
10.44 R+	0.2	DI ON EB Shld
10.64 R+	0.2	TYPE GO DI ON EB Shld
10.73 R+	0.2	TYPE GO DI ON EB Shld
10.83 R+	0.2	TYPE GO DI ON EB Shld
11.74 R+	0.2	TYPE GO DI ON EB Shld
11.87 R+	0.2	TYPE OMPI DI ON EB Shld
11.92 R+	0.2	TYPE GO DI ON EB Shld
12.00 R+	0.2	TYPE GO DI ON EB Shld
12.05 R+	0.2	TYPE GO DI ON EB Shld
12.11 R+	0.2	TYPE GO DI ON EB Shld
12.21 R+	0.2	TYPE GO DI ON EB Shld
12.52 R+	0.2	TYPE GO DI ON EB Shld
12.70 R+	0.2	TYPE GO DI ON EB Shld
12.79 R+	0.2	TYPE GO DI ON EB Shld
12.86 R+	0.2	TYPE GO DI ON EB Shld
13.44 R+	0.2	TYPE GO DI ON EB Shld
13.57 R+	0.2	TYPE GO DI ON EB Shld
13.61 R+	0.2	TYPE GO DI ON EB Shld
13.61 L+	0.2	TYPE G6 DI ON WB Shld
13.69 L+	0.2	TYPE G6 DI ON WB Shld
13.72 R+	0.2	TYPE G6 DI ON EB Shld
13.74 R+	0.2	TYPE GO DI ON EB Shld
13.87 R+	0.2	TYPE GO DI ON EB Shld
14.28 L+	0.2	TYPE GO DI ON WB Shld
14.41 L+	0.2	TYPE GO DI ON WB Shld
14.50 L+	0.2	TYPE GO DI ON WB Shld
14.65 L+	0.2	TYPE GO DI ON WB Shld
14.74 L+	0.2	TYPE GO DI ON WB Shld
TOTAL	7.8	

SUMMARY OF QUANTITIES
Q-1

REVISED BY	DATE REVISED
JOHNATHON JACKSON	CHRIS GHIDINELLI
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	TOM FITZGERALD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 06-16-15 | DATE PLOTTED => $DATE | TIME PLOTTED => $TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Tri	299	8.0/15.0	9	13

Chris Ghidinelli 10-25-15
REGISTERED CIVIL ENGINEER DATE

November 2, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS GHIDINELLI No. 77294 Exp. 6-30-17 CIVIL STATE OF CALIFORNIA

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ROADWAY QUANTITIES

LOCATION (PM) FROM	LOCATION (PM) TO	Avg WIDTH LF	LENGTH LF	RUBBERIZED HOT MIX ASPHALT (TYPE A) TON	TACK COAT TON	MINOR HOT MIX ASPHALT TON	PLACE HMA (MISCELLANEOUS AREA) SQYD	COLD PLANE AC PAVEMENT SQYD	REMARKS
7.99	8.00	32	40	12.7	0.1			143	TRANSITION COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 40'
8.00	11.03	28	16,051	4,425.8	16.6				
8.10 Rt	8.13 Rt	4	158			6.3	71		SUPER DITCH
8.11 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
8.11 Lt	8.21 Lt	6	528					352	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
8.21 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
8.13 Rt	8.30 Rt	15	898	133.1	0.5				WIDE Shld
8.26 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
8.26 Lt	8.29 Lt	6	158					106	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
8.29 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
8.30 Lt	8.40 Lt	15	528	78.3	0.3				WIDE Shld
8.40 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
8.40 Lt	8.54 Lt	6	739					493	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
8.54 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
8.54 Lt	8.59 Lt	Var	264	51.0	0.2				VISTA POINT
8.59 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
8.59 Lt	8.62 Lt	6	158					106	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
8.62 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
8.66 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
8.66 Lt	8.68 Lt	6	106					71	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
8.68 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
9.74 Rt		134	16	21.2	0.1			38	VETERANS HALL Rd
9.91 Lt	9.96 Lt	15	264	39.2	0.2				WIDE Shld
10.05 Lt		60	16	9.5	0.1			36	BURNT RANCH CAMPGROUND ENTRANCE
10.45 Rt		143	26	36.7	0.2			116	HENNESSEY Rd
10.68 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
10.68 Lt	10.71 Lt	6	158					106	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
10.71 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
10.70 Lt	10.76 Lt	12	317	37.6	0.2				TURNOUT
10.74 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
10.74 Lt	10.79 Lt	6	264					176	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
10.79 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
10.92 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
10.92 Lt	11.02 Lt	6	528					352	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
11.02 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
11.03	11.57	26	2,851	732.5	2.8				
11.07 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
11.07 Lt	11.11 Lt	6	211					141	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
11.11 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
11.13	11.24	15	581	86.1	0.4				WIDE Shld
11.15 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
11.15 Lt	11.24 Lt	6	475					317	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL AND ROCK WALL
11.24 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
11.44 Rt		69	132	89.4	0.4			45	BURNT RANCH SCHOOL Rd
11.45 Rt	11.66 Rt	15	1,109	164.4	0.7				WIDE Shld
11.50 Lt	11.57 Lt	10	370	36.6	0.2				WIDE Shld
11.57	13.30	28	9,134	2,527.0	9.5				
11.80 Rt		51	36	18.0	0.1			82	UNDERWOOD MOUNTAIN Rd
12.11 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
12.11 Lt	12.20 Lt	6	475					317	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL AND ROCK WALL
12.20 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
12.31 Rt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
12.31 Rt	12.34 Rt	6	158					106	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
12.34 Rt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
12.51 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
12.51 Lt	12.63 Lt	6	634					423	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL AND ROCK WALL
12.63 Lt		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
TOTAL SHEET Q-2				8,499.1	32.6	6.3	71	3890	

SUMMARY OF QUANTITIES
Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: TOM FITZGERALD
CALCULATED-DESIGNED BY / CHECKED BY
JOHNATHON JACKSON / CHRIS GHIDINELLI
REVISED BY / DATE REVISED

LAST REVISION 06-11-15 | DATE PLOTTED => $DATE | TIME PLOTTED => $TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Tri	299	8.0/15.0	10	13

Chris Ghidinelli 10-25-15
REGISTERED CIVIL ENGINEER DATE

November 2, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS GHIDINELLI No. 77294 Exp. 6-30-17 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.

ROADWAY QUANTITIES

LOCATION (PM) FROM	LOCATION (PM) TO	Avg WIDTH LF	LENGTH LF	RUBBERIZED HOT MIX ASPHALT (GAP GRADED) TON	TACK COAT TON	MINOR HOT MIX ASPHALT TON	MISCELLANEOUS AREA SQYD	COLD PLANE AC PAVEMENT SQYD	REMARKS
12.60 R+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
12.60 R+	12.62 R+	6	106					71	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
12.62 R+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
12.63 L+	12.70 L+	10	370	36.6	0.2				WIDE Shld
12.70 L+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
12.70 L+	12.72 L+	6	106					71	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL AND ROCK WALL
12.72 L+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
12.89 R+	13.01 R+	10	634	62.6	0.3				WIDE Shld
13.08 L+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
13.08 L+	13.15 L+	6	370					247	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL AND ROCK WALL
13.15 L+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
13.17 R+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
13.17 R+	13.30 R+	6	686					458	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL AND RETAINING WALL
13.30 R+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
13.30 L+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
13.30 L+	13.37 L+	6	370					247	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL AND ROCK WALL
13.37 L+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
13.30	13.75	32	2,376	751.2	2.9				
13.33 R+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
13.33 R+	13.35 R+	6	106					71	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
13.35 R+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
13.44 L+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
13.44 L+	13.49 L+	6	264					176	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
13.49 L+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
13.53 R+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
13.53 R+	13.54 R+	6	53					36	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
13.54 R+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
13.64 R+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
13.64 R+	13.74 R+	6	528					352	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL AND RETAINING WALL
13.74 R+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
13.68 L+	13.74 L+	15	317	47.0	0.2				TURNOUT
13.72 L+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
13.72 L+	13.75 L+	6	158					106	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL AND ROCK WALL
13.75 L+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
13.74 R+		60	11	6.5	0.1			73	FRIEDRICH Rd
13.75	13.87	30	634	187.8	0.8				
13.76 L+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
13.76 L+	13.77 L+	6	53					36	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
13.77 L+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
13.76 R+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 20'
13.76 R+	13.78 R+	6	106					71	HOLD TAPERED COLD PLANE AT 0.1' DEPTH AT GUARDRAIL
13.78 R+		6	20					14	TRANSITION TAPERED COLD PLANE DEPTH FROM 0.1' TO 0.0' OVER 20'
13.87	14.00	32	670	212.0	0.8				
14.00	14.00	32	40	12.7	0.1			143	TRANSITION COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 40'
14.00	14.01	32	50	15.9	0.1			178	HOLD COLD PLANE DEPTH AT 0.1' DEPTH
14.01	14.11	32	528						TRINITY RIVER Br No. 05-0006
14.11	14.13	32	65	20.6	0.1			232	HOLD COLD PLANE DEPTH AT 0.1' DEPTH
14.13	14.13	32	40	12.7	0.1			143	TRANSITION COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 40'
14.13	14.18	32	243	77.0	0.3				
14.13 R+	14.24 R+	15	560	83.1	0.4				WIDE Shld
14.18	15.00	28	4,330	1,197.8	4.5				
15.00	15.01	28	40	11.1	0.1			125	TRANSITION COLD PLANE DEPTH FROM 0.0' TO 0.1' OVER 40'
TOTAL SHEET Q-3				2,734.6	11.0			3172	
TOTAL SHEET Q-2				8,499.1	32.6	6.3	71	3890	
TOTAL SHEET Q-1						92.8			
TOTAL				11,233.7	43.6	99.1	71	7062	

SUMMARY OF QUANTITIES
Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: TOM FITZGERALD
CALCULATED-DESIGNED BY / CHECKED BY: JOHNATHON JACKSON / CHRIS GHIDINELLI
REVISED BY / DATE REVISED

LAST REVISION 06-11-15
DATE PLOTTED => $DATE
TIME PLOTTED => $TIME

M

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED,
	MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

p	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE,
	PRECAST
PCC	POINT OF COMPOUND CURVE,
	PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE,
	PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
ℙ,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE,
	TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE,
	PLASTIC PIPE,
	POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED,
	REINFORCEMENT,
	REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT,
	REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION,
	REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD,
	RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

S	SOUTH,
	SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND,
	SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL,
	SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK,
	SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE,
	TRAFFIC SIGNAL,
	TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE,
	DESIGN SPEED
Var	VARIABLE,
	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST,
	WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	299	8.0/15.0	11	13

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Grace M. Tsushima No. C49814 Exp. 9-30-14 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.

TO ACCOMPANY PLANS DATED 11-02-15

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft^3, pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

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6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	299	8.0/15.0	12	13

REGISTERED CIVIL ENGINEER

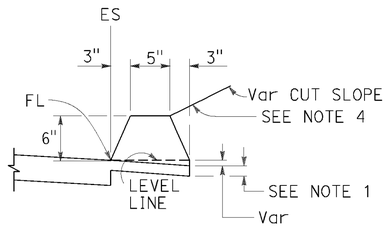
July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Michael Janzen
No. 44788
Exp. 03-31-14
CIVIL
STATE OF CALIFORNIA

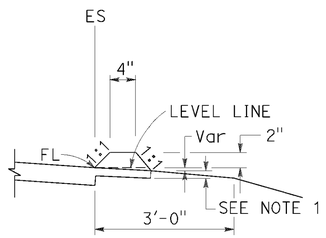
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 11-02-15

2010 REVISED STANDARD PLAN RSP A87B



TYPE A
See Note 3



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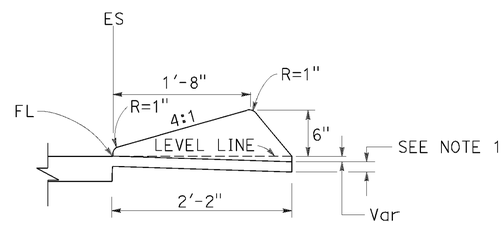

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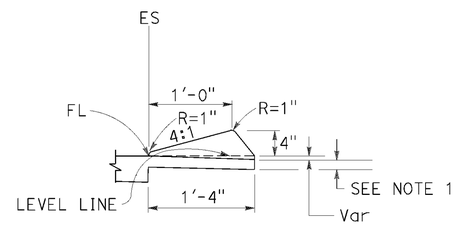

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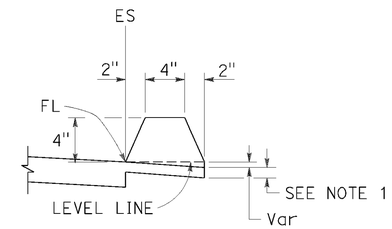
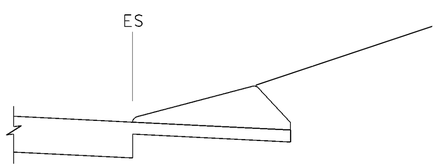
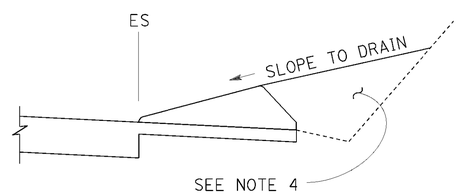


TYPE F
See Note 5

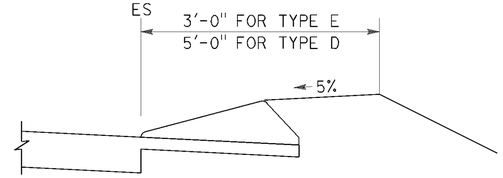
DIKES



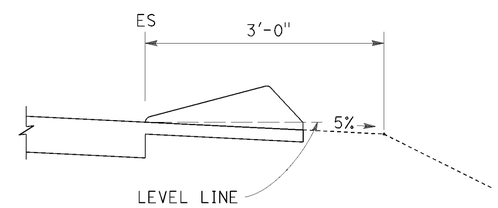
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

1. For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
2. Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
3. Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
4. Fill and compact with excavated material to top of dike.
5. Use Type F dike, where dike is required with guard railing installations. See Revised Standard Plan RSP A77N4 for dike positioning details.

DIKE QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES

NO SCALE

RSP A87B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87B
DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87B

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6-27-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	299	8.0/15.0	13	13

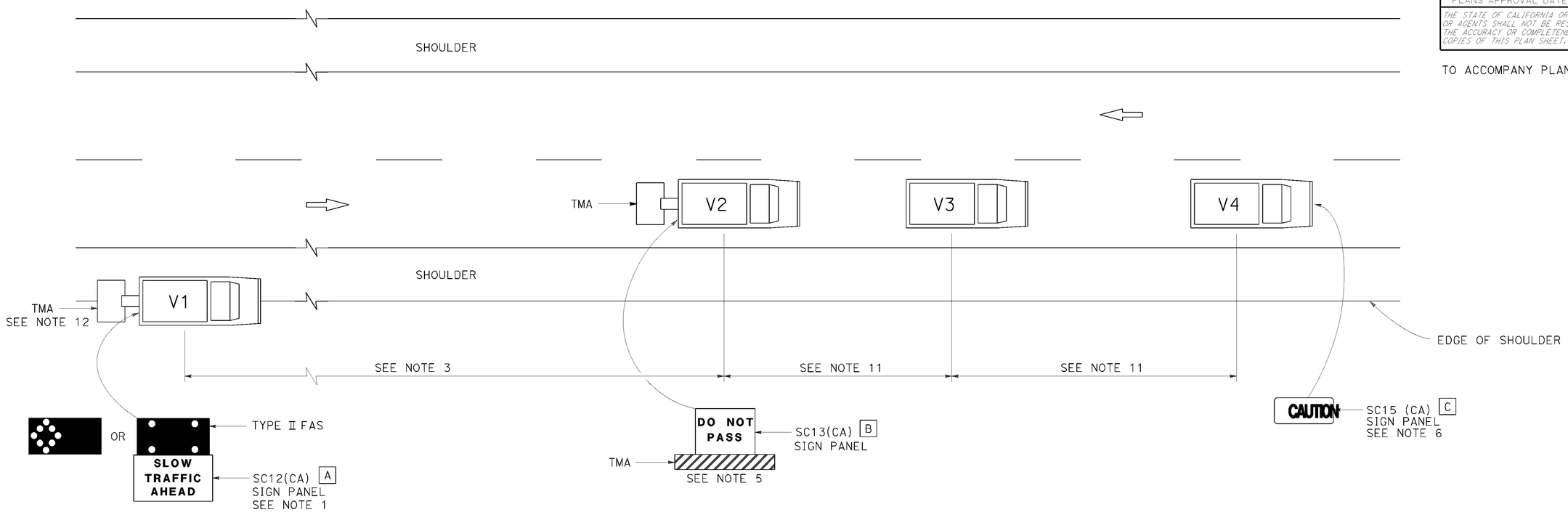
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 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.

TO ACCOMPANY PLANS DATED 11-02-15



LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
V4	SIGN VEHICLE
TMA	TRUCK-MOUNTED ATTENUATOR
	FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE
	FLASHING ARROW SIGN (FAS) IN ALTERNATING DIAMOND CAUTION

SIGN PANEL SIZE (Min)

A	72" x 42"
B	54" x 42"
C	54" x 24"

NOTES:

1. Either a changeable message sign or a SC12(CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. A Type II flashing arrow sign may be used with the SC12(CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Shadow vehicle shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

RSP T17 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T17
DATED MAY 20, 2011 - PAGE 245 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17

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12-18-12