Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mpa	140	0.0/12.0, 25.3/29.7	1	10

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN MARIPOSA COUNTY AT AND NEAR CATHEYS VALLEY FROM MERCED COUNTY LINE TO 1.7 MILES EAST OF CATHEYS VALLEY PARK AND AT AND NEAR MIDPINES FROM EAST WHITLOCK ROAD TO COLORADO ROAD

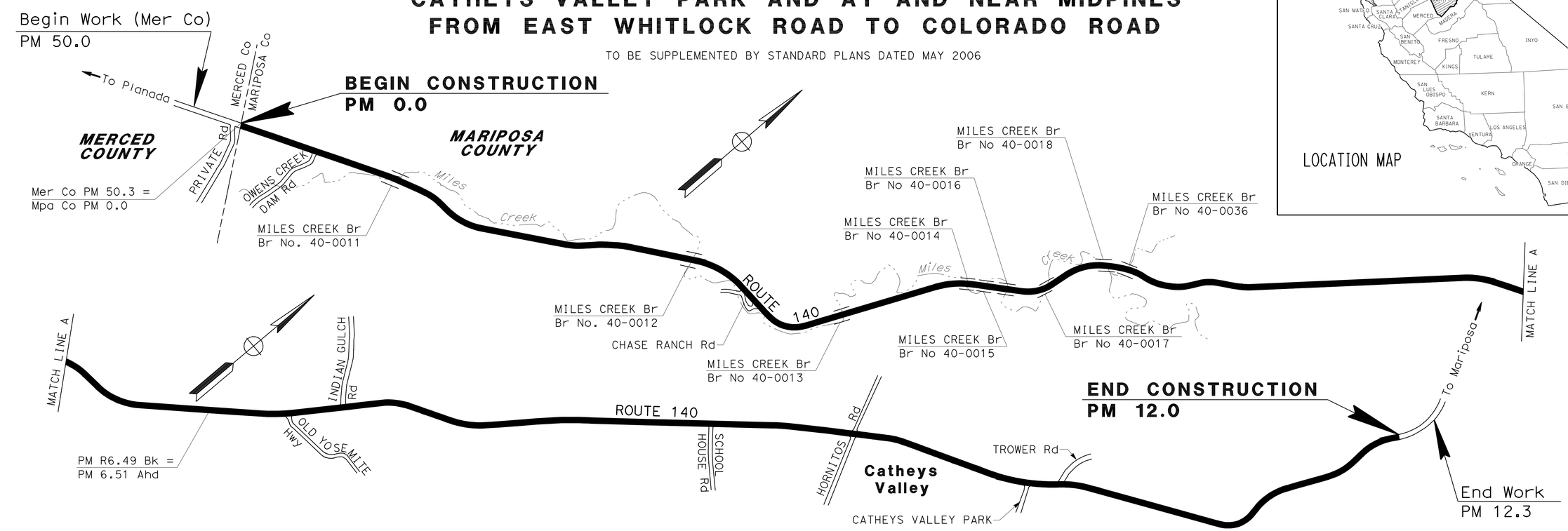
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

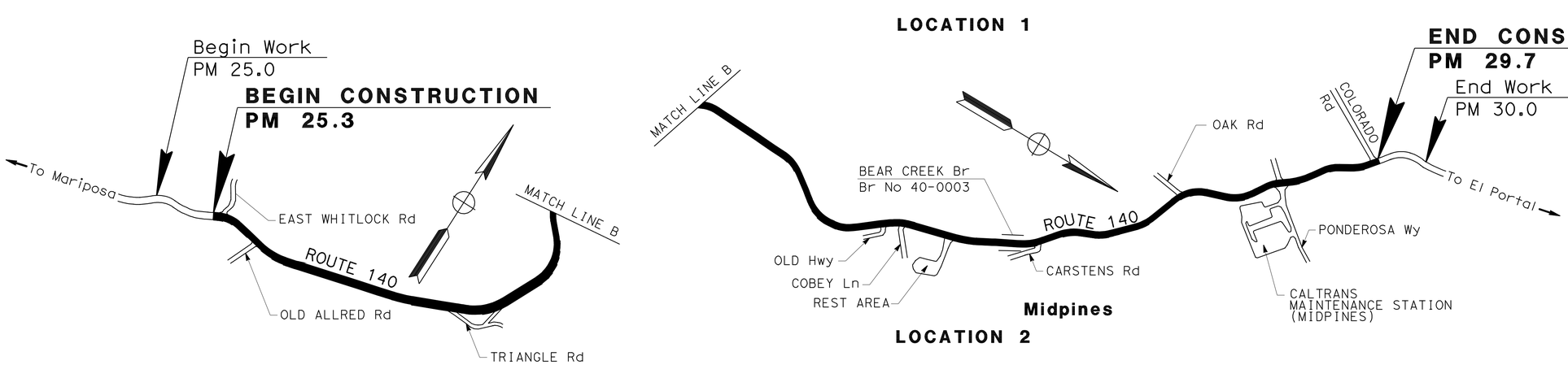
SHEET NO.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION
3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5-6	SUMMARY OF QUANTITIES
7-10	REVISED AND NEW STANDARD PLANS

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

LOCATION MAP



LOCATION 1



LOCATION 2

NO SCALE

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

PROJECT MANAGER ALVIN MANGINDIN

DESIGN ENGINEER ALVIN MANGINDIN

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 2/23/12

February 27, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOSE A. ALICEA II — No. 64817 — Exp. 6/30/13 — CIVIL — STATE OF CALIFORNIA

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

CONTRACT No.	10-0V8904
PROJECT ID	1000020484

LAST REVISION 00-00-00 — DATE PLOTTED => 29-FEB-2012 — TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mpa	140	0.0/12.0, 25.3/29.7	2	10

REGISTERED CIVIL ENGINEER 2/23/12 DATE

2/27/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

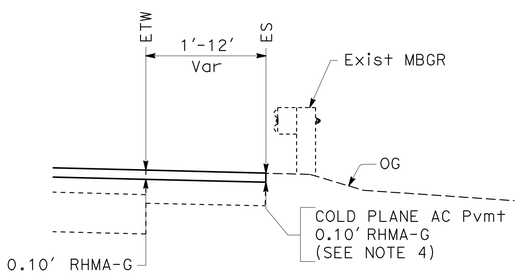
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

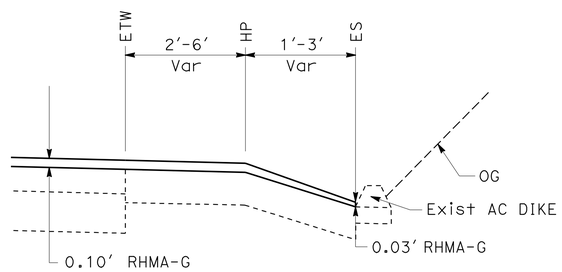
1. DIMENSIONS OF PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. FOR COLD PLANE AC PAVEMENT DIMENSIONS AND LOCATIONS, SEE SUMMARY OF QUANTITIES SHEET.
5. ENVIRONMENTALLY SENSITIVE AREA (ESA), ALL WORK TO BE PERFORMED ON EXISTING PAVEMENT. NO SHOULDER BACKING WILL BE PLACED WITHIN ESA.

ABBREVIATION

RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

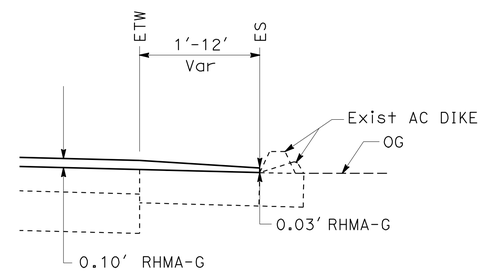


MBGR LOCATIONS

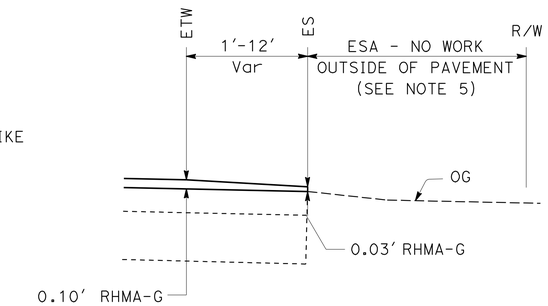


PM 25.62/25.66 (R+)
PM 28.61/28.64 (R+)
PM 28.80/28.81 (R+)
PM 25.23/25.25 (L+)

DITCH/AC DIKE LOCATIONS

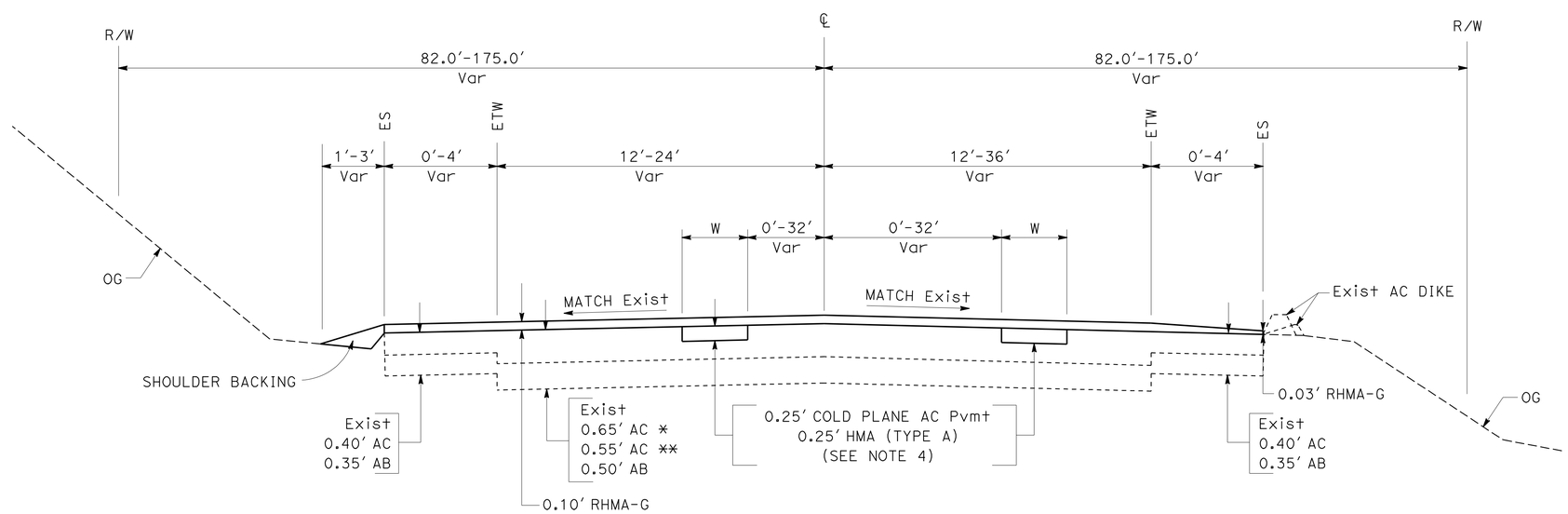


AC DIKE LOCATIONS



PM 31.50/31.80 (NB/SB)

ESA LOCATIONS



REMARKS:
* - PM 0.0/12.0
** - PM 25.3/29.7

PM 0.0/12.0
PM 25.3/25.7

ROUTE 140

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JOSE A ALICEA II
CHECKED BY: RHODEL De CLARO
REVISED BY: JAA
DATE REVISED: 02/22/12

LAST REVISION 00-00-00
DATE PLOTTED => 29-FEB-2012
TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mpa	140	0.0/12.0, 25.3/29.7	3	10

REGISTERED CIVIL ENGINEER 2/23/12 DATE

2/27/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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

PUBLIC ROAD INTERSECTIONS

Loc	PM	SIDE	ROAD NAME	LENGTH	WIDTH
1	0.3	R+	OWENS CREEK DAM Rd	30′	30′
	2.4	R+	CHASE RANCH Rd	15′	60′
	2.4	R+	CHASE RANCH Rd	15′	35′
	7.0	R+	OLD YOSEMITE Hwy	40′	25′
	7.3	L+	INDIAN GULCH Rd	40′	25′
	8.9	R+	SCHOOL HOUSE Rd	35′	30′
	9.5	R+	HORNITOS Rd	30′	60′
	9.5	L+	HORNITOS Rd	30′	45′
	10.3	R+	CATHEYS VALLEY PARK	30′	45′
	10.5	L+	TROWER Rd	10′	20′
2	25.3	L+	EAST WHITLOCK Rd	50′	30′
	25.5	R+	OLD ALLRED Rd	30′	30′
	26.3	R+	TRIANGLE Rd	40′	45′
	26.3	R+	TRIANGLE Rd	45′	50′
	27.8	R+	OLD HIGHWAY	30′	20′
	27.9	R+	COBEY Ln	25′	15′
	28.0	R+	REST AREA	35′	25′
	28.4	R+	CARSTENS Rd	30′	40′
	29.0	L+	OAK Rd	30′	25′
	29.4	R+	PONDEROSA Wy	38′	38′
	29.4	L+	PONDEROSA Wy	35′	20′
	29.7	L+	COLORADO Rd	35′	35′

SEE CONSTRUCTION AREA SIGNS FOR ALL PUBLIC ROAD LOCATIONS.

TABLE OF BRIDGES

Loc	PM	BRIDGE NAME	BRIDGE No.
1	0.79	MILES CREEK	40-0011
	2.13	MILES CREEK	40-0012
	2.89	MILES CREEK	40-0013
	3.46	MILES CREEK	40-0014
	3.50	MILES CREEK	40-0015
	3.64	MILES CREEK	40-0016
	3.81	MILES CREEK	40-0017
	4.06	MILES CREEK	40-0018
	4.20	MILES CREEK	40-0036
2	28.33	BEAR CREEK	40-0003

ABBREVIATION

RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

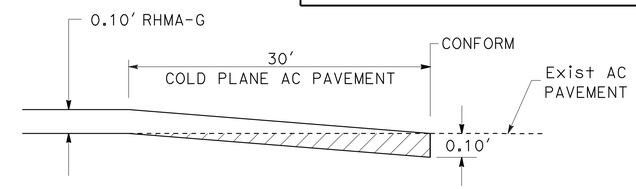
PRIVATE DRIVEWAY INTERSECTIONS

Loc	PM	SIDE	WIDTH	Loc	PM	SIDE	WIDTH	Loc	PM	SIDE	WIDTH
1	0.42	R+	20′	1	9.70	L+	20′	2	25.70	R+	20′
	0.73	L+	20′		9.71	R+	20′		26.35	L+	20′
	1.43	R+	20′		9.84	R+	20′		26.51	L+	20′
	1.71	L+	20′		9.84	L+	20′		26.60	L+	20′
	2.12	R+	20′		9.94	R+	20′		27.48	R+	20′
	2.13	L+	20′		10.01	L+	20′		27.84	R+	20′
	2.40	L+	20′		10.02	L+	20′		27.87	R+	20′
	2.94	L+	20′		10.08	L+	20′		27.92	R+	20′
	4.11	L+	20′		10.09	R+	20′		28.42	R+	20′
	4.31	R+	20′		10.09	L+	20′		27.45	L+	20′
	4.68	R+	20′		10.21	L+	20′		27.73	L+	20′
	4.85	L+	20′		10.27	L+	20′		27.82	L+	20′
	5.66	R+	20′		10.31	L+	20′		27.84	L+	20′
	5.86	L+	20′		10.46	R+	20′		28.00	L+	20′
	5.88	R+	20′		10.47	R+	20′		28.03	L+	20′
	6.14	L+	20′		10.57	R+	20′		28.45	L+	20′
	6.15	R+	20′		10.65	R+	20′		28.47	L+	20′
	6.45	R+	20′		11.11	R+	20′		28.55	L+	20′
	6.46	L+	20′		11.13	R+	20′		28.58	L+	20′
	7.21	L+	20′		11.13	L+	20′		28.65	R+	20′
	7.76	R+	20′		11.66	R+	20′		28.66	R+	20′
	8.36	R+	20′		11.76	R+	20′		28.77	R+	20′
	8.36	L+	20′		11.78	R+	20′		28.93	R+	20′
	8.42	L+	20′		11.82	R+	20′		29.02	R+	20′
	8.78	R+	20′		11.87	R+	20′		29.11	L+	20′
	8.81	L+	20′		11.88	L+	20′		29.14	R+	20′
	8.87	L+	20′		11.98	L+	20′		29.19	R+	20′
	9.06	L+	20′	2	25.32	L+	20′		29.21	R+	20′
	9.17	R+	20′		25.36	R+	20′		29.26	R+	20′
	9.41	R+	20′		25.42	L+	20′		29.44	R+	20′
	9.58	R+	20′		25.50	L+	20′		29.67	L+	20′
	9.55	L+	20′		25.64	L+	20′				
	9.59	L+	20′		26.05	L+	20′				

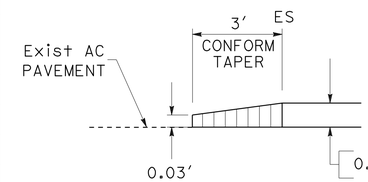
ACTUAL WIDTHS MAY VARY IN THE FIELD AND WILL BE DETERMINED BY THE ENGINEER.

LEGEND

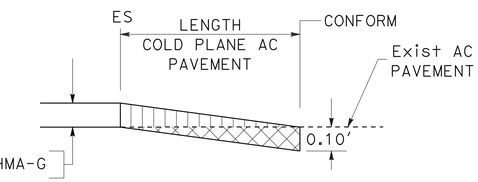
- COLD PLANE AC PAVEMENT RHMA-G
- COLD PLANE AC PAVEMENT HMA (TYPE A)
- HMA (TYPE A)



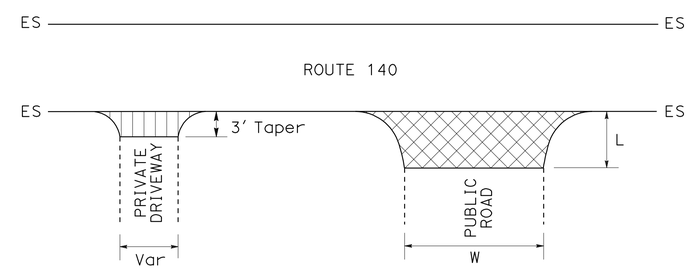
CONFORM TAPER AT EXISTING AC PAVEMENT



PRIVATE DRIVEWAY CONFORM TAPER

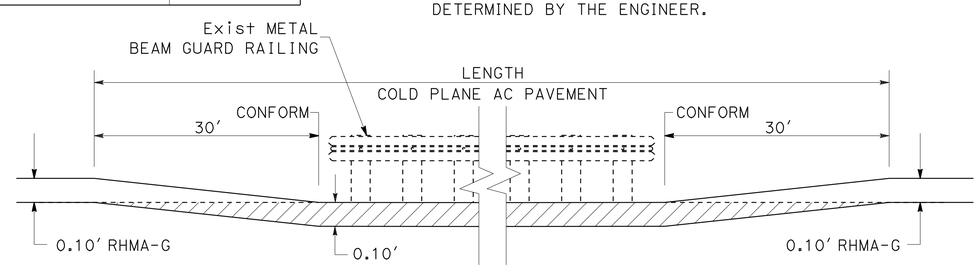


PUBLIC ROAD CONFORM TAPER



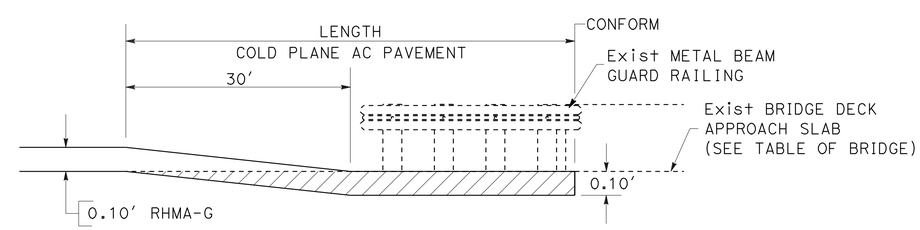
PAVING LIMITS AT PRIVATE DRIVEWAYS AND PUBLIC ROAD INTERSECTIONS

SEE PUBLIC ROAD AND PRIVATE DRIVEWAY INTERSECTIONS TABLES



CONFORM TAPER AT METAL BEAM GUARD RAIL*

* FOR TRANSVERSE DIRECTION, SEE X-1



CONFORM TAPER AT APPROACH/DEPARTURE BRIDGE DECK

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE
Caltrans

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JOSE A. ALICEA II
CHECKED BY: THOA HUYNH
REVISED BY: JAA
DATE REVISED: 02/22/12

LAST REVISION 00-00-00
DATE PLOTTED => 29-FEB-2012
TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mpa	140	0.0/12.0, 25.3/29.7	4	10

REGISTERED CIVIL ENGINEER 2/23/12 DATE

2/27/12
PLANS APPROVAL DATE

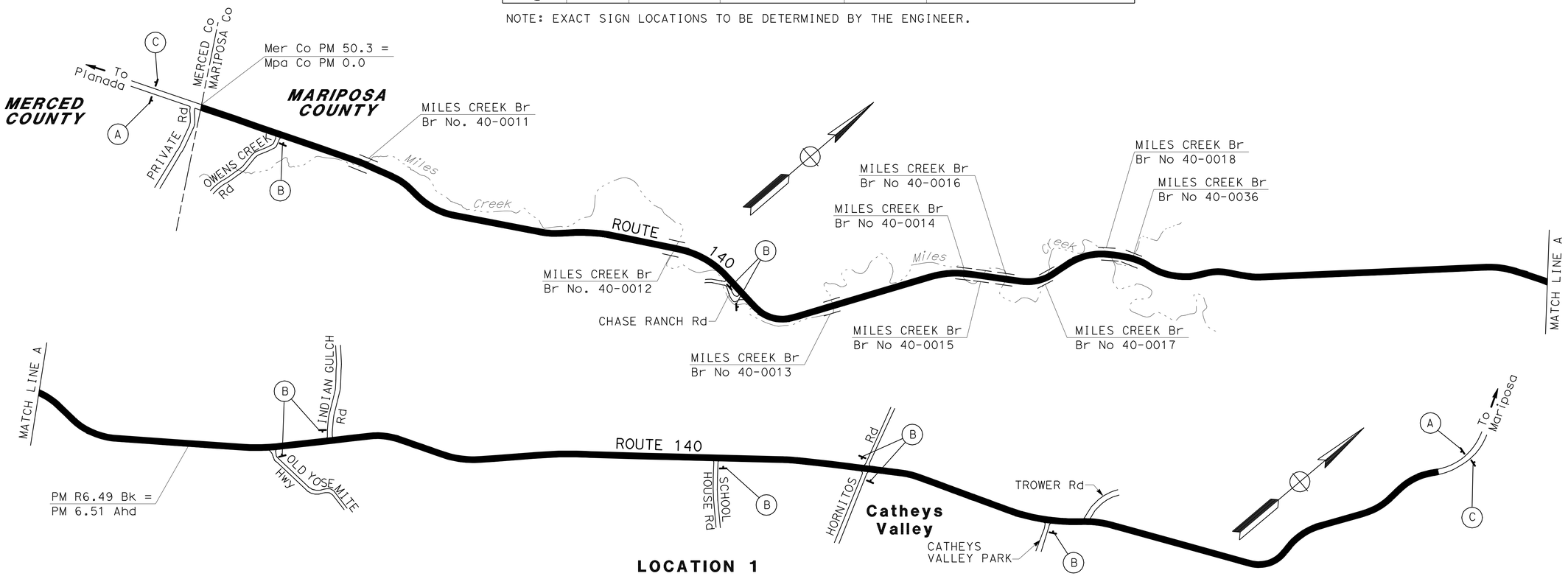
REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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

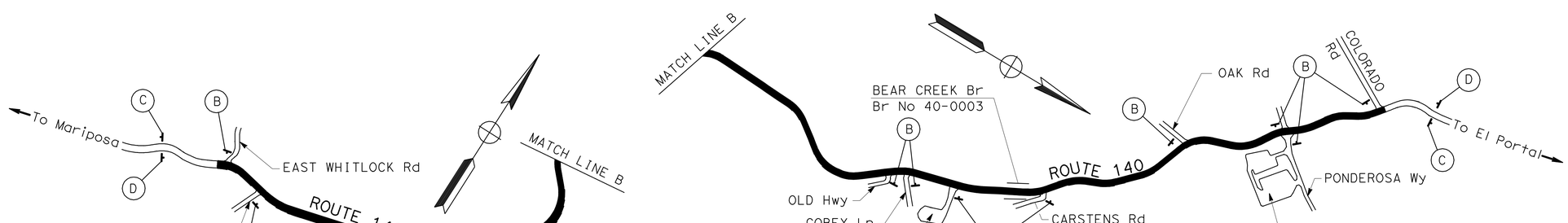
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
A	G20-1	60" x 36"	2 - 6" x 6"	2	ROAD WORK NEXT 11 MILES
D	G20-1	60" x 36"	2 - 6" x 6"	2	ROAD WORK NEXT 5 MILES
B	W20-1	36" x 36"	1 - 4" x 4"	22	ROAD WORK AHEAD
C	G20-2	36" x 18"	1 - 4" x 4"	4	END ROAD WORK

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.



LOCATION 1



LOCATION 2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JOSE A ALICEA II
CHECKED BY: THOA HUYNH
REVISED BY: JAA
DATE REVISED: 02/22/12

LAST REVISION 00-00-00 | DATE PLOTTED => 29-FEB-2012 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mpa	140	0.0/12.0, 25.3/29.7	5	10

REGISTERED CIVIL ENGINEER 2/23/12 DATE

2/27/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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

ABBREVIATION

RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

NOTES:

1. * - TOTAL INCLUDED IN ROADWAY ITEMS TABLE.
2. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
3. TRAFFIC MANAGEMENT SYSTEM ELEMENTS LOCATIONS ARE APPROXIMATE.

DIGOUTS

LOCATION			LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	HMA (TYPE A)
Loc	PM	SIDE			SQYD	TON
1	0.00	EB	250′	8′	223	38
	1.00	EB	250′	8′	223	38
	2.00	EB	250′	8′	223	38
	3.00	EB	250′	8′	223	38
	4.00	EB	250′	8′	223	38
	5.00	EB	250′	8′	223	38
	6.00	EB	250′	8′	223	38
	7.00	EB	250′	8′	223	38
	8.00	EB	250′	8′	223	38
	9.00	EB	250′	8′	223	38
	10.00	EB	250′	8′	223	38
	11.00	EB	250′	8′	223	38
	12.00	EB	250′	8′	223	38
	0.00	WB	250′	8′	223	38
	1.00	WB	250′	8′	223	38
	2.00	WB	250′	8′	223	38
	3.00	WB	250′	8′	223	38
	4.00	WB	250′	8′	223	38
	5.00	WB	250′	8′	223	38
	6.00	WB	250′	8′	223	38
	7.00	WB	250′	8′	223	38
	8.00	WB	250′	8′	223	38
	9.00	WB	250′	8′	223	38
	10.00	WB	250′	8′	223	38
	11.00	WB	250′	8′	223	38
	12.00	WB	250′	8′	223	38
2	25.30	EB	250′	8′	223	38
	26.00	EB	250′	8′	223	38
	27.00	EB	250′	8′	223	38
	28.00	EB	250′	8′	223	38
	29.00	EB	250′	8′	223	38
	25.30	WB	250′	8′	223	38
	26.00	WB	250′	8′	223	38
	27.00	WB	250′	8′	223	38
	28.00	WB	250′	8′	223	38
	29.00	WB	250′	8′	223	38
				TOTAL	8028*	1368*

ACTUAL LOCATIONS AND DIMENSIONS OF DIGOUTS MAY VARY IN THE FIELD AND WILL BE DETERMINED BY THE ENGINEER.

CONFORM TAPERS AT MBGR

LOCATION		LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	RHMA-G
Loc	PM / PM			SQYD	TON
1	4.89 / 4.91	170′	45′	850	57
	7.40 / 7.53	700′	40′	3112	208
	11.29 / 11.35	380′	28′	1183	79
	12.70 / 12.79	540′	28′	1680	112
	12.93 / 13.25	1760′	28′	5476	365
	13.31 / 13.41	590′	28′	1836	123
2	26.28 / 26.31	220′	28′	685	46
	27.57 / 27.79	1230′	28′	3827	255
	28.50 / 28.55	330′	28′	1027	69
	29.48 / 29.52	280′	28′	872	59
			TOTAL	20,548*	1373*

CONFORM TAPERS

LOCATION			LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	RHMA-G
Loc	PM	DESCRIPTION			SQYD	TON
1	50.0	Rte 140 (BEGIN CONSTRUCTION)	30′	26′	87	6
	0.8	MILES CREEK Br (DEPARTURE)	100′	26′	289	20
	0.8	MILES CREEK Br (APPROACH)	100′	26′	289	20
	2.1	MILES CREEK Br (DEPARTURE)	100′	60′	667	45
	2.1	MILES CREEK Br (APPROACH)	100′	60′	667	45
	2.9	MILES CREEK Br (DEPARTURE)	100′	28′	312	21
	2.9	MILES CREEK Br (APPROACH)	100′	28′	312	21
	3.5	MILES CREEK Br (DEPARTURE)	100′	30′	334	23
	3.5	MILES CREEK Br (APPROACH)	100′	30′	334	23
	3.5	MILES CREEK Br (DEPARTURE)	100′	30′	334	23
	3.5	MILES CREEK Br (APPROACH)	100′	30′	334	23
	3.6	MILES CREEK Br (DEPARTURE)	100′	30′	334	23
	3.6	MILES CREEK Br (APPROACH)	100′	30′	334	23
	3.8	MILES CREEK Br (DEPARTURE)	100′	30′	334	23
	3.8	MILES CREEK Br (APPROACH)	100′	30′	334	23
	4.1	MILES CREEK Br (DEPARTURE)	100′	30′	334	23
	4.1	MILES CREEK Br (APPROACH)	100′	30′	334	23
	4.2	MILES CREEK Br (DEPARTURE)	100′	42′	467	32
	4.2	MILES CREEK Br (APPROACH)	100′	42′	467	32
	12.3	Rte 140 (END CONSTRUCTION)	30′	30′	100	7
2	25.0	Rte 140 (BEGIN CONSTRUCTION)	30′	54′	180	12
	28.3	BEAR CREEK Br (DEPARTURE)	100′	28′	312	21
	28.3	BEAR CREEK Br (APPROACH)	100′	28′	312	21
	30.0	Rte 140 (END CONSTRUCTION)	30′	40′	134	9
				TOTAL	7935*	542*

CONFORM TAPERS AT PUBLIC ROAD INTERSECTIONS

LOCATION				LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	HMA (TYPE A)
Loc	PM	SIDE	DESCRIPTION			SQYD	TON
1	0.3	R+	OWENS CREEK DAM Rd	30′	30′	100	7
	2.4	R+	CHASE RANCH Rd	15′	60′	100	7
	2.4	R+	CHASE RANCH Rd	15′	35′	59	4
	7.0	R+	OLD YOSEMITE Hwy	40′	25′	112	8
	7.3	L+	INDIAN GULCH Rd	40′	25′	112	8
	8.9	R+	SCHOOL HOUSE Rd	35′	30′	117	8
	9.5	R+	HORNITOS Rd	30′	60′	200	14
	9.5	L+	HORNITOS Rd	30′	45′	150	11
	10.3	R+	CATHEYS VALLEY PARK	30′	45′	150	11
	10.5	L+	TROWER Rd	10′	20′	23	2
2	25.3	L+	EAST WHITLOCK Rd	50′	30′	167	12
	25.5	R+	OLD ALLRED Rd	30′	30′	100	7
	26.3	R+	TRIANGLE Rd	40′	45′	200	14
	26.3	R+	TRIANGLE Rd	45′	50′	250	17
	27.8	R+	OLD HIGHWAY	30′	20′	67	5
	27.9	R+	COBEY Ln	25′	15′	42	3
	28.0	R+	REST AREA	35′	25′	98	7
	28.4	R+	CARSTENS Rd	30′	40′	134	9
	29.0	L+	OAK Rd	30′	25′	84	6
	29.4	R+	PONDEROSA Wy	38′	38′	162	11
	29.4	L+	PONDEROSA Wy	35′	20′	78	6
	29.7	L+	COLORADO Rd	35′	35′	137	10
					TOTAL	2642*	187*

SUMMARY OF QUANTITIES
Q-1

REVISED BY	DATE REVISED
JAA	02/22/12

CALCULATED-DESIGNED BY: JOSE A ALICEA II
CHECKED BY: THOA HUYNH
FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

LAST REVISION 00-00-00
DATE PLOTTED => 29-FEB-2012
TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mpa	140	0.0/12.0, 25.3/29.7	6	10

REGISTERED CIVIL ENGINEER DATE 2/23/12

2/27/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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

ROADWAY ITEMS

LOCATION	COLD PLANE AC PAVEMENT	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	HOT MIX ASPHALT (TYPE A)	TACK COAT	SHOULDER BACKING	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)
	SQYD	TON				SQYD
PM 0.0/12.0, 25.3/29.7		23,700		160	9400	
DIGOUTS	8028		1368	4		
CONFORM TAPERS AT MBGR	20,548	1373		9		
CONFORM TAPERS AT PUBLIC ROAD INTERSECTIONS	2642		187	2		
CONFORM TAPERS AT PRIVATE DRIVEWAYS			44	1		1940
CONFORM TAPERS	7935	542		4		
TOTAL	39,153	25,615	1599	180	9400	1940

TRAFFIC MANAGEMENT SYSTEM ELEMENT (EXISTING)

LOCATION	PM	TYPE	DESCRIPTION
EAST OF HORNITOS ROAD	9.50	TMS	TRAFFIC MONITORING STATION
MIDPINES REST AREA	28.00	TMS	TRAFFIC MONITORING STATION

PAVEMENT DELINEATION ITEMS

LOCATION		REMOVE THERMOPLASTIC PAVEMENT MARKING			THERMOPLASTIC PAVEMENT MARKING					REMOVE PAVEMENT MARKER (N)	PAVEMENT MARKER (RETROREFLECTIVE)							
											TYPE D					TYPE G		TYPE H
		TYPE III (R) ARROW	TYPE III (L) ARROW	TYPE VI (L) ARROW	TYPE III (R) ARROW	TYPE III (L) ARROW	TYPE VI (L) ARROW	LIMIT LINE	STOP		DETAIL 6	DETAIL 19	DETAIL 22	DETAIL 29	DETAIL 32	DETAIL 12	DETAIL 38	DETAIL 19
Loc	PM	SQFT			SQFT					EA	EA							
1	0.0/12.0		630	504		630	504	228	132	5494	66	164	4266	112	28	484	12	318
2	25.3/29.7	252	126	126	252	126	126	387	264									
	SUBTOTAL	252	756	630	252	756	630	615	396		66	164	4266	112	28	484	12	318
	TOTAL	1638			2649						5450							

PAVEMENT DELINEATION ITEMS

LOCATION		REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)							REMOVE THERMOPLASTIC TRAFFIC STRIPE		THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)													
		4" YELLOW							8" WHITE		4" WHITE				4" YELLOW								8" WHITE	
		DETAIL 19	DETAIL 21	DETAIL 22	DETAIL 28	DETAIL 29	DETAIL 31	DETAIL 32	DETAIL 38	DETAIL 38A	DETAIL 11	DETAIL 12	DETAIL 27B	DETAIL 27C	DETAIL 6	DETAIL 19	DETAIL 21	DETAIL 22	DETAIL 28	DETAIL 29	DETAIL 31	DETAIL 32	DETAIL 38	DETAIL 38A
Loc	PM	LF							LF		LF													
1	0.0/12.0	15,036		101,842		5300		844	500			23,015	126,720	765	3384	7518		51,031		2650		422	250	
2	25.3/29.7		40,940		8068		11,046			2510	6325		46,464	1360			20,825		4034		5523			1255
	SUBTOTAL	15,036	40,940	101,842	8068	5300	11,046	844	500	2510	6325	23,015	173,184	2125	3384	7518	20,825	51,031	4034	2650	5523	422	250	1255
	TOTAL	183,076							3010		301,541													

SUMMARY OF QUANTITIES
Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JOSE A ALICEA II
CHECKED BY: THOA HUYNH
REVISED BY: JAA
DATE REVISED: 02/22/12

LAST REVISION 00-00-00
DATE PLOTTED => 29-FEB-2012
TIME PLOTTED => 10:13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mpa	140	0.0/12.0, 25.3/29.7	7	10

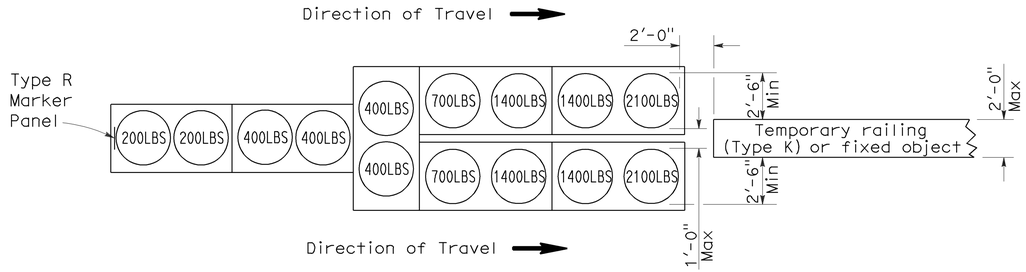
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

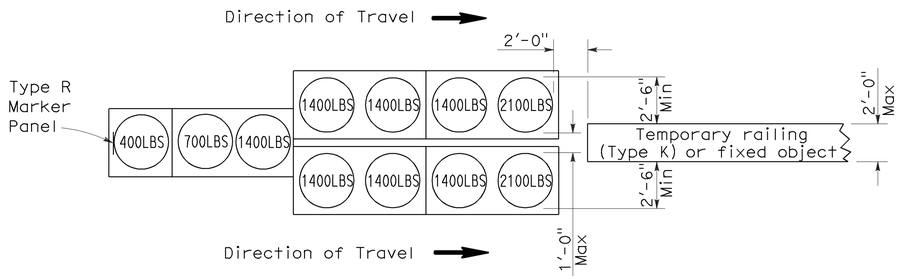
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2/27/12



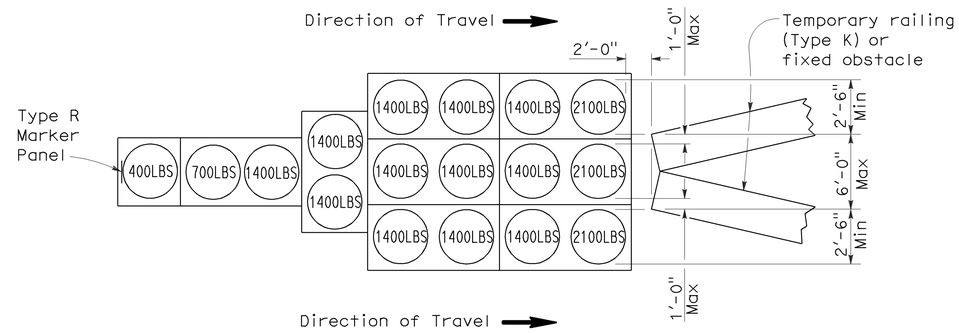
ARRAY 'TU14'

Approach speed 45 mph or more



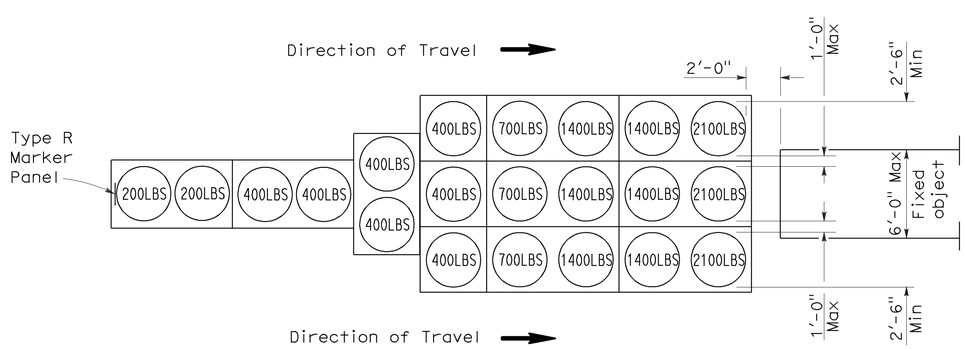
ARRAY 'TU11'

Approach speed less than 45 mph



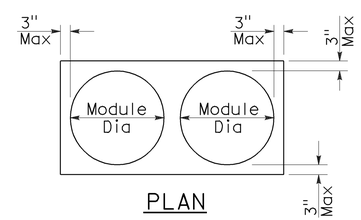
ARRAY 'TU17'

Approach speed less than 45 mph

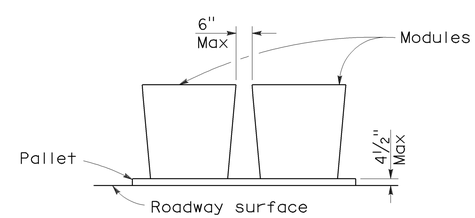


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mpa	140	0.0/12.0, 25.3/29.7	8	10

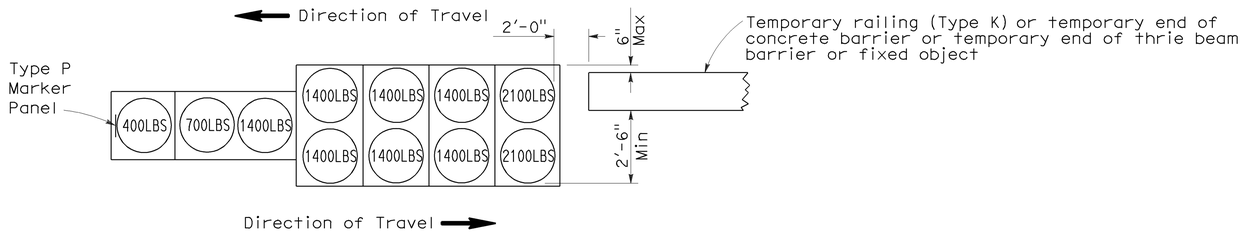
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

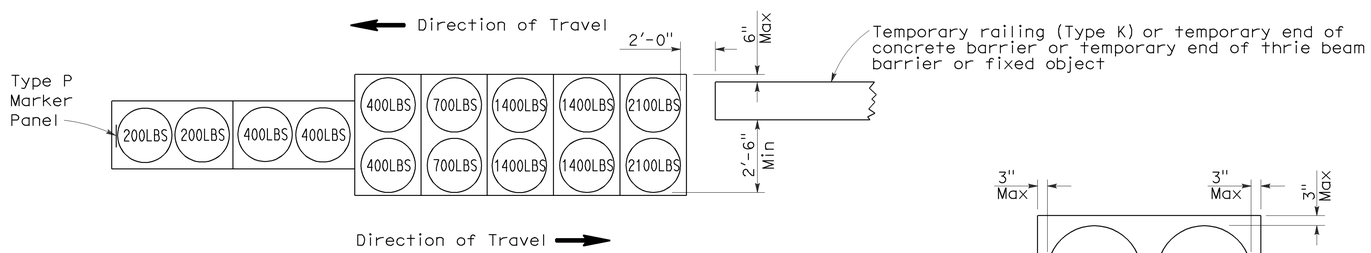
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2/27/12



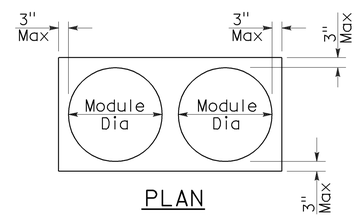
ARRAY 'TB11'

Approach speed less than 45 mph

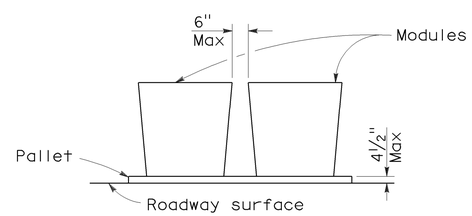


ARRAY 'TB14'

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
10	Mpa	140	0.0/12.0, 25.3/29.7	9	10

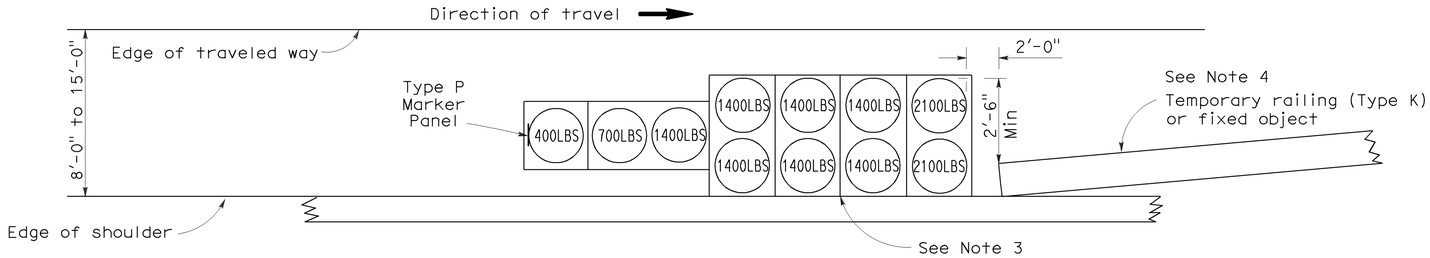
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

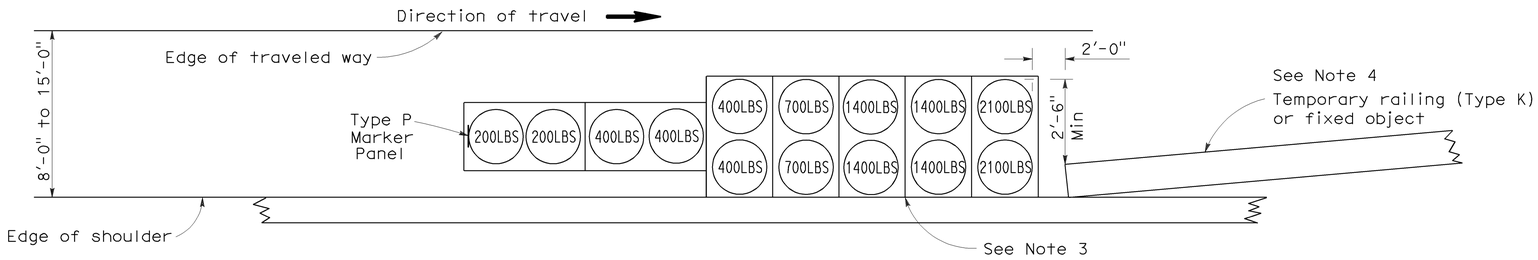
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2/27/12



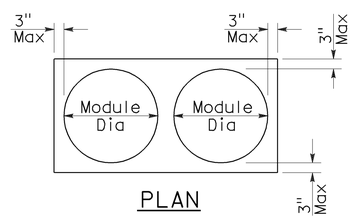
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

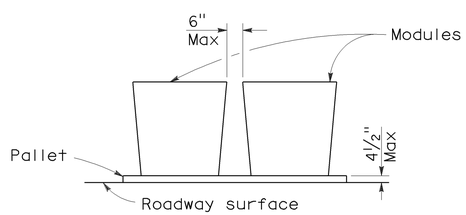


ARRAY 'TS14'

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
10	Mpa	140	0.0/12.0, 25.3/29.7	10	10

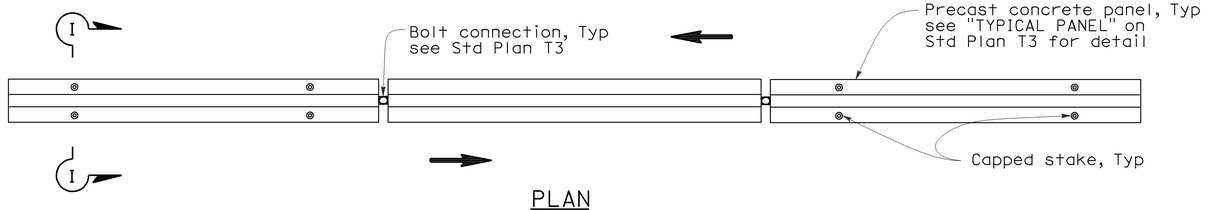
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

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

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

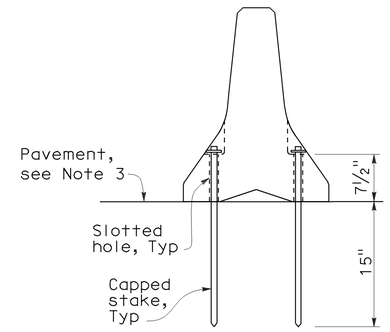
To accompany plans dated 2/27/12



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

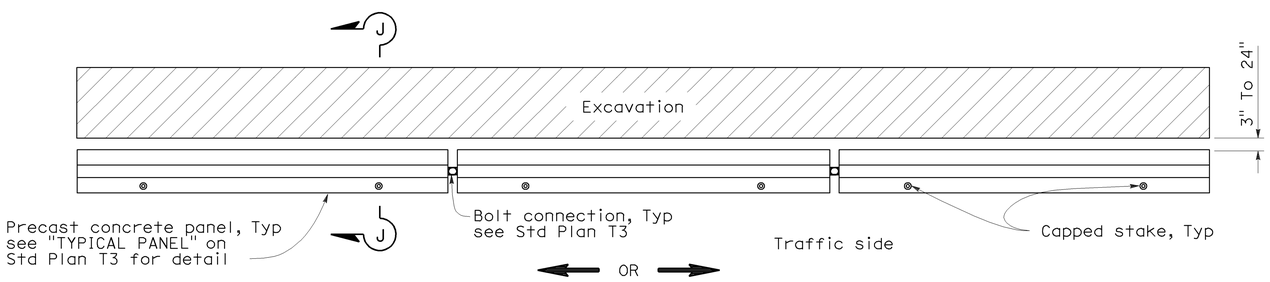
See Note 1



SECTION I-I

NOTES:

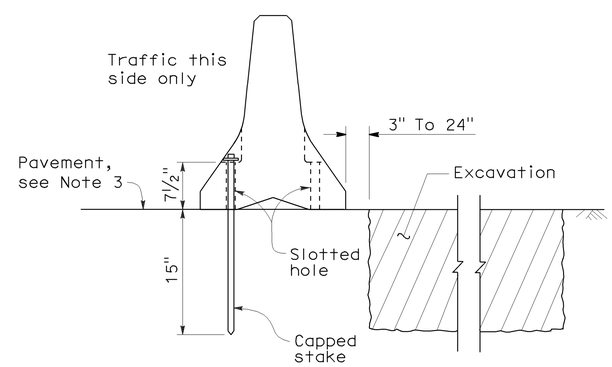
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of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



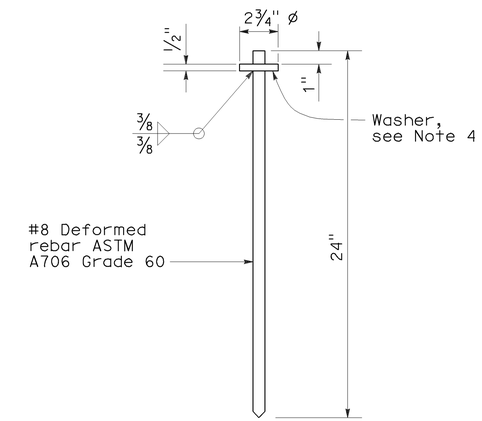
PLAN

RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION

See Note 2



SECTION J-J



CAPPED STAKE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY RAILING (TYPE K)

NO SCALE

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

NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A