Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	202	R1.4/11.9	1	14

INDEX OF PLANS

Sheet No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION
3-6	CONSTRUCTION DETAILS
7	CONSTRUCTION AREA SIGNS
8-10	SUMMARY OF QUANTITIES
11-14	REVISED AND NEW STANDARD PLANS

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

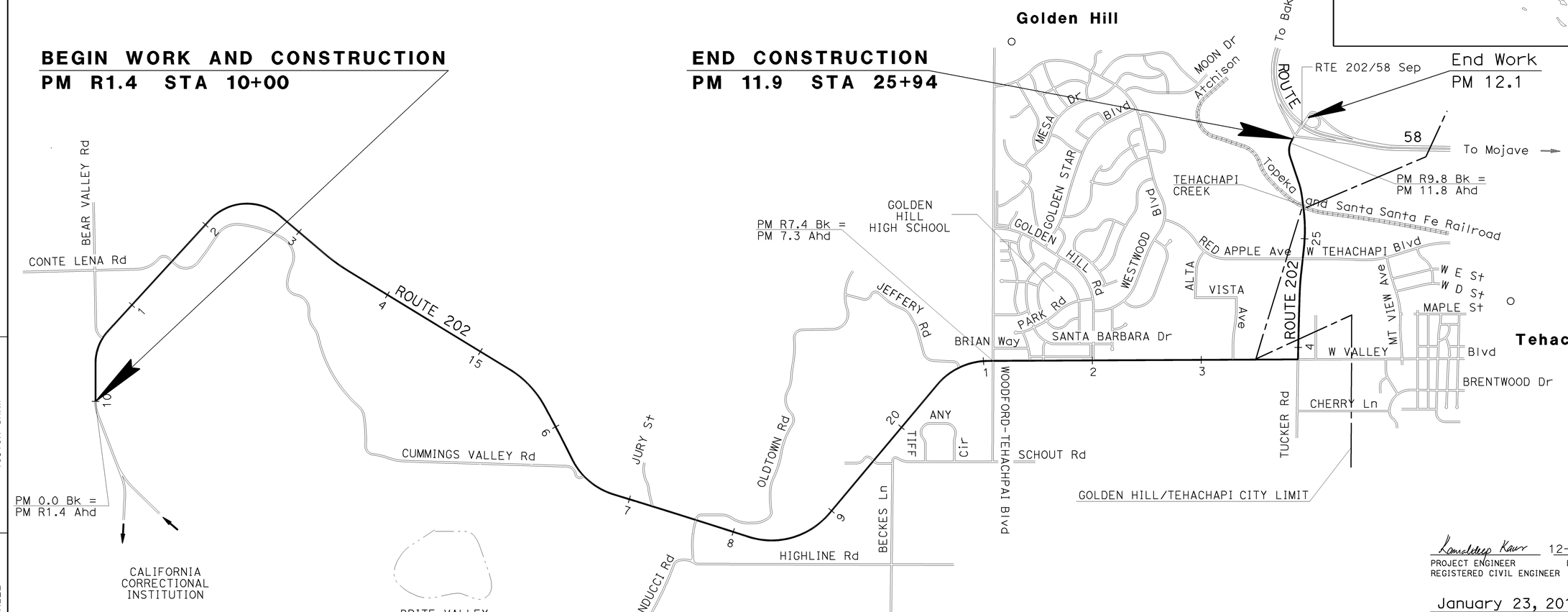
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN KERN COUNTY IN AND NEAR TEHACHAPI FROM 0.2 MILE WEST OF BEAR VALLEY ROAD TO ROUTE 202/58 SEPARATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATION MAP



NO SCALE

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

Kamaldeep Kaur 12-23-11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER KAMALDEEP KAUR No. C73047 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

January 23, 2012
PLANS APPROVAL DATE

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

CONTRACT No.	06-0N2904
PROJECT ID	0600020501

PROJECT MANAGER VICTOR SHAW
DESIGN ENGINEER FRANK GONZALEZ

LAST REVISION 01-19-12
DATE PLOTTED => 13-FEB-2012
TIME PLOTTED => 13:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	202	R1.4/11.9	2	14

Kamaldeep Kaur 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

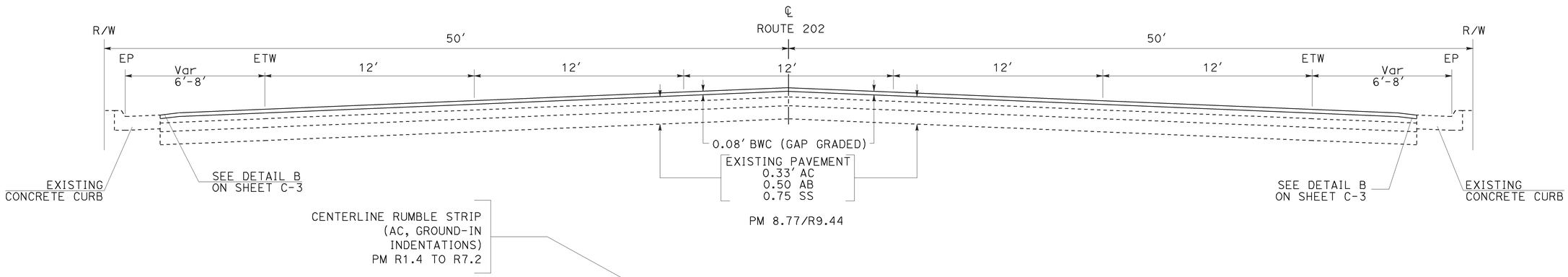
REGISTERED PROFESSIONAL ENGINEER
KAMALDEEP KAUR
No. C73047
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

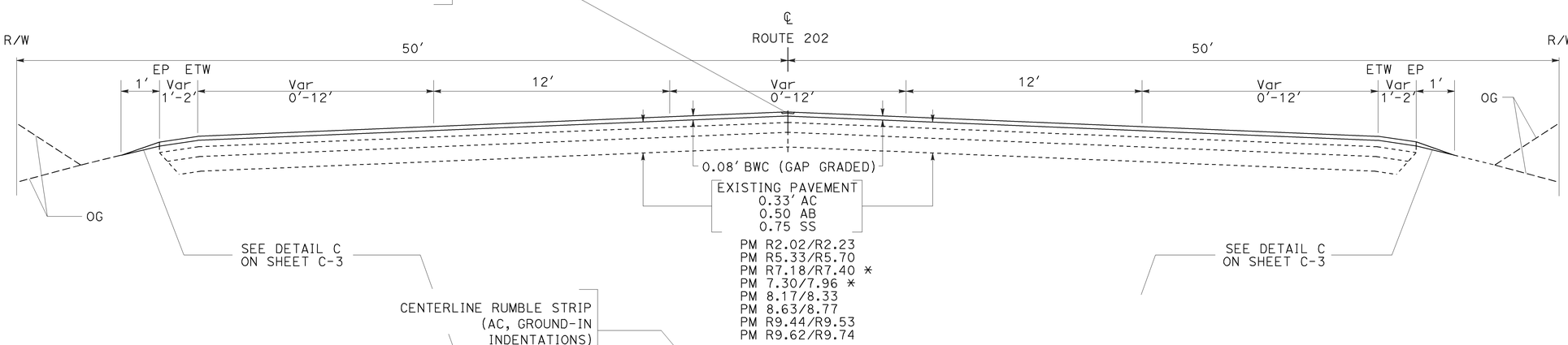
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

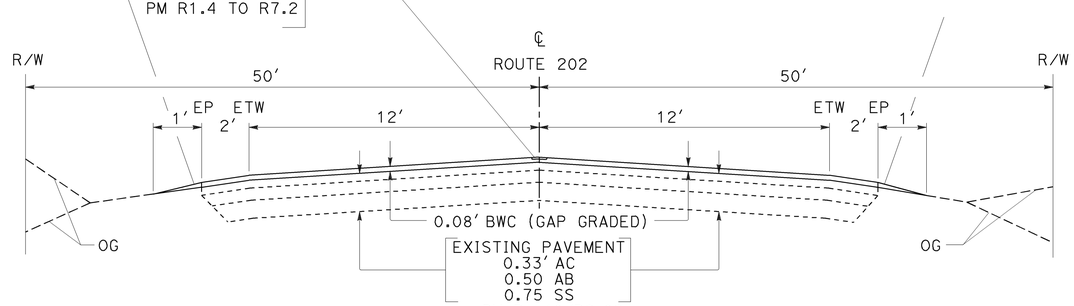
NOTE:
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. FOR LOCATIONS AND DETAILS OF COLD PLANE AC Pvm†, SEE SHEET C-1 AND Q-1.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS PLAN.

ABBREVIATIONS:

BWC (TYPE G) = BONDED WEARING COURSE (GAP GRADED)
HMA = HOT MIX ASPHALT







* PM R7.40 BACK = PM 7.30 AHEAD
** PM R9.88 BACK = PM 11.82 AHEAD

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: LEE XIONG
CHECKED BY: KAMALDEEP KAUR
REVISED BY
DATE REVISED

LAST REVISION 01-12-12
DATE PLOTTED => 13-FEB-2012
TIME PLOTTED => 13:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	202	R1.4/11.9	3	14

Kamaldeep Kaur 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KAMALDEEP KAUR
No. C73047
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

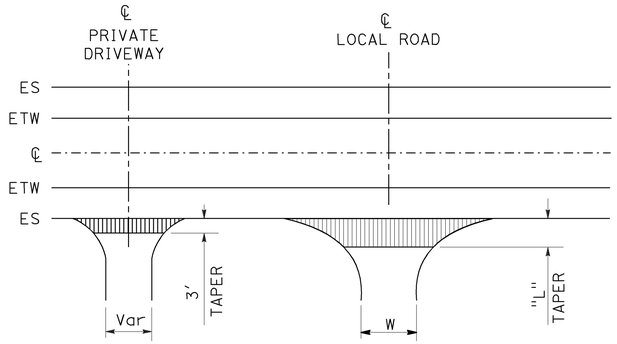
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

0.25′ COLD PLANE ASPHALT CONCRETE PAVEMENT
0.25′ HMA (TYPE A) LENGTHS AND WIDTHS VARY

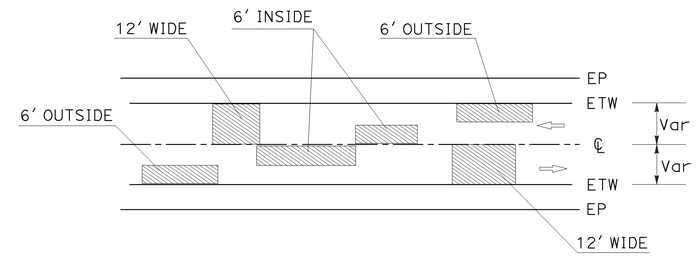
0.08′ HMA (BWC-GAP GRADED)

0.08′ COLD PLANE AC Pvmt
0.08′ HMA (BWC-GAP GRADED)

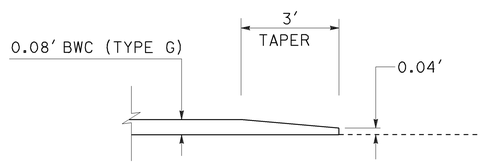


TYPICAL INTERSECTION WORK

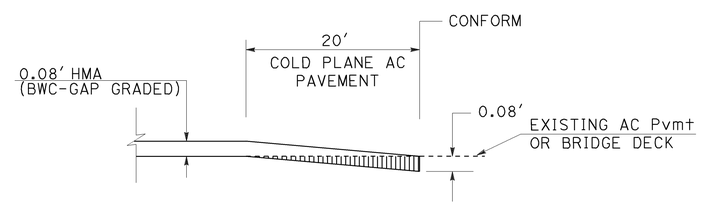
PRIVATE DRIVEWAY INTERSECTIONS		
ROUTE	PM	SIDE
202	R2.43	R
	R2.45	L
	R2.64	L
	R3.50	R/L
	R3.79	L
	R4.16	R
	R4.22	R
	R4.60	R/L
	R4.95	R
	R5.20	R/L
	R5.71	L
	R5.74	R
	R5.77	R
	R5.85	R/L
	R6.13	R/L
	R6.36	R/L
	R6.50	R
	R6.94	L
	7.83	L
	7.91	L
	8.78	L
	11.88	L



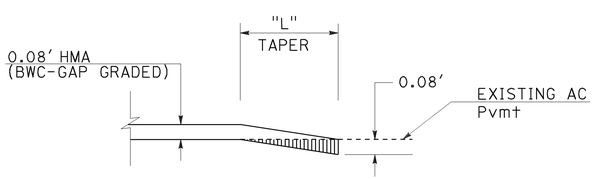
DIG-OUT AC PAVEMENT DETAILS
SEE Q-2 FOR LOCATIONS



PRIVATE DRIVEWAY CONFORM TAPER



LONGITUDINAL CONFORM TAPER AT BEGIN AND END CONSTRUCTION AND AT BRIDGE APPROACH / DEPARTURE SLABS



PUBLIC ROAD CONFORM TAPER

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: LEE XIONG
CHECKED BY: KAMALDEEP KAUR
REVISED BY
DATE REVISED

LAST REVISION 01-20-12
DATE PLOTTED => 13-FEB-2012
TIME PLOTTED => 14:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	202	R1.4/11.9	4	14

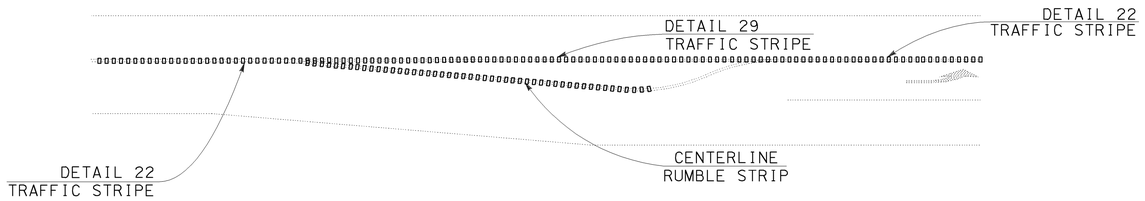
Kamaldeep Kaur 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

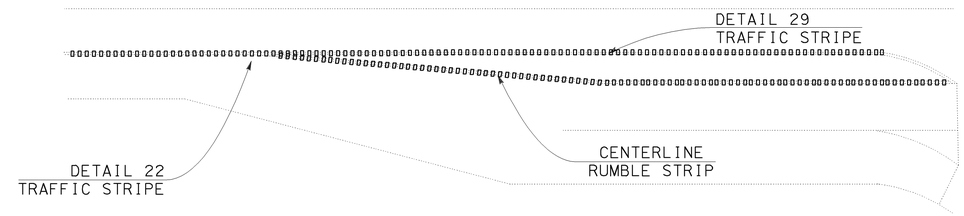
REGISTERED PROFESSIONAL ENGINEER
KAMALDEEP KAUR
No. C73047
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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

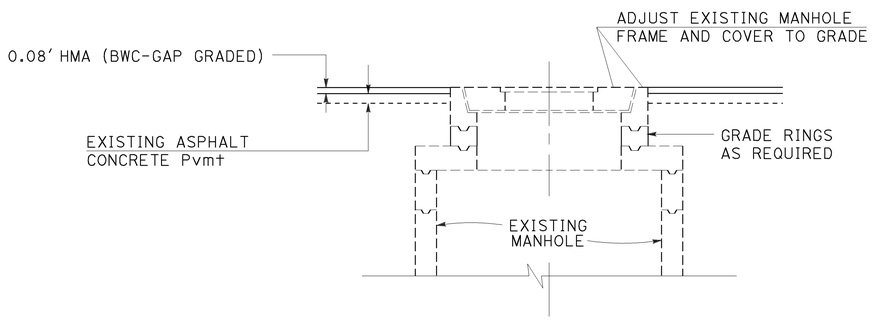
NOTES:
1. FOR ADDITIONAL RUMBLE STRIP DETAILS SEE A40B OF THE STANDARD PLANS.



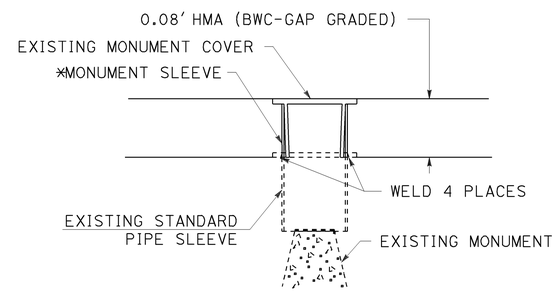
CENTERLINE RUMBLE STRIP AT BAY TAPER



CENTERLINE RUMBLE STRIP AT LOWER CUMMINGS VALLEY ROAD

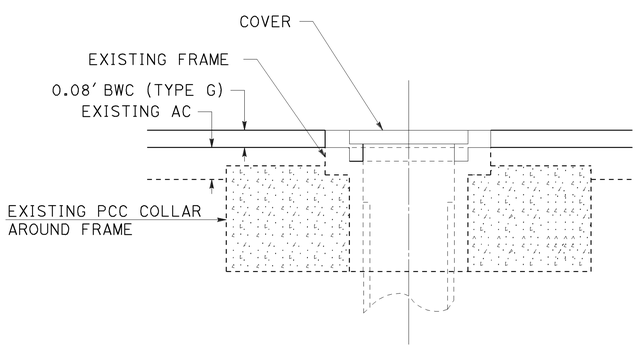


ADJUST MANHOLE TO GRADE

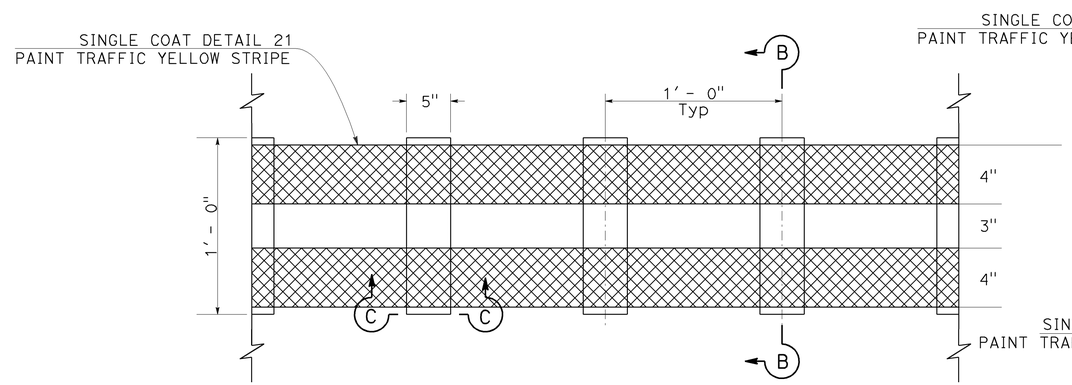


ADJUST MONUMENT COVER

* HEIGHT OF MONUMENT SLEEVE TO BE DETERMINED AFTER PLACING HMA (BWC-GAP GRADED)

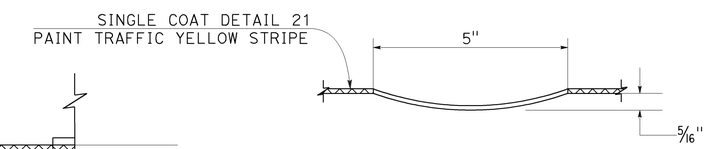


ADJUST VALVE COVER TO GRADE

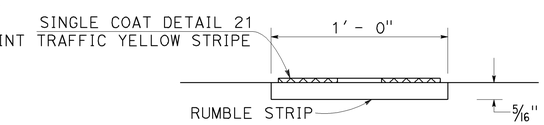


CENTERLINE RUMBLE STRIP

INCLUDES SINGLE COAT DETAIL 21 PAINT TRAFFIC YELLOW STRIPE PLACED PRIOR TO GRINDING CENTER LINE RUMBLE STRIP.



SECTION C-C



SECTION B-B

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: LEE XIONG
CHECKED BY: KAMALDEEP KAUR
REVISED BY
DATE REVISED

LAST REVISION 01-20-12
DATE PLOTTED => 13-FEB-2012
TIME PLOTTED => 14:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	202	R1.4/11.9	5	14

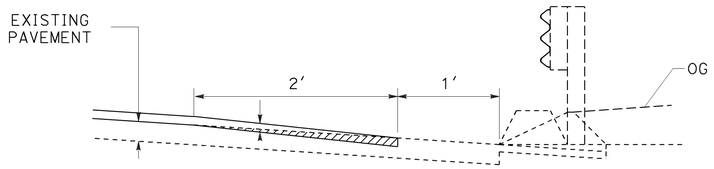
Kamaldeep Kaur 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KAMALDEEP KAUR No. C73047 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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

NOTE: 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



DETAIL C

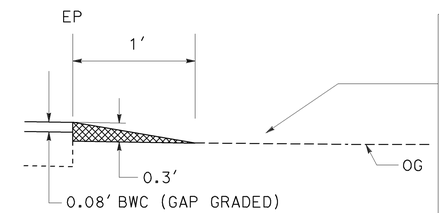
COLD PLANE TAPER AT SHOULDER

ROUTE	LOCATIONS (PM)	DIRECTION (EB/WB)	LENGTH	COLD PLANE AC PAVEMENT (0.08′ Max)	REMARK
			FT	SQYD	
202	R2.18/R2.78	EB	3168	696	DIKE
	R2.23/R2.34	WB	580	127	DIKE
	R2.47/R2.63	WB	844	185	MBGR
	R2.63/R2.70	WB	369	81	DIKE
	R2.70/R2.75	WB	264	58	MBGR
	R2.75/R2.93	WB	950	208	DIKE
	R2.91/R3.03	EB	633	13	MBGR
	R2.93/R3.07	WB	739	162	MBGR
	R3.07/R4.60	WB	8078	1615	DIKE
	R3.16/R3.21	EB	264	58	DIKE
	R3.57/R3.73	EB	844	168	DIKE
	R3.78/R4.61	EB	4382	876	DIKE
	R4.60/R4.74	WB	739	162	DIKE
	R4.60/R4.88	EB	1478	324	MBGR
	R4.73/R4.83	WB	527	116	MBGR
	R4.84/R4.87	WB	158	34	DIKE
	R4.90/R4.96	EB	316	63	MBGR
	R5.02/R5.50	EB	2534	506	DIKE
	R5.07/R5.55	WB	2270	453	DIKE
	R5.75/R6.00	WB	1319	264	DIKE
	R5.89/R6.00	EB	580	115	MBGR
	R6.00/R6.33	WB	1742	387	DIKE
	R6.14/R6.24	EB	527	116	MBGR
	R6.48/R7.00	WB	2745	610	DIKE
	R6.78/R6.84	EB	316	63	MBGR
	R6.94/R6.99	EB	264	58	DIKE
	7.34/7.56	EB	1161	232	DIKE
	7.50/7.81	WB	1636	327	DIKE
	8.09/8.11	WB	105	21	DIKE
	R9.12/R9.31	EB	1003	220	DIKE
	R9.12/R9.36	WB	1267	278	DIKE
	R9.38/R9.48	WB	527	116	DIKE
	R9.42/R9.48	EB	211	69	DIKE
	R9.48/R9.53	EB/WB	524	104	MBGR
	R9.62/R9.65	EB/WB	316	62	MBGR
	R9.65/R9.88	EB/WB	2428	484	DIKE
	11.82/11.90	EB/WB	844	168	DIKE
TOTAL				9599*	

* QUANTITIES INCLUDED IN COLD PLANE AC PAVEMENT TABLE

LEGEND

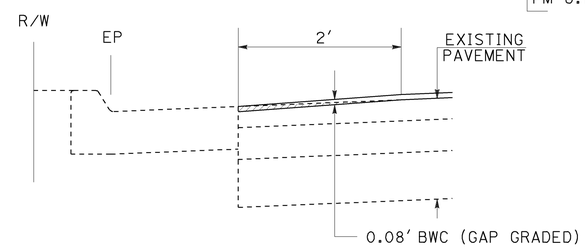
- COLD PLANE ASPHALT CONCRETE PAVEMENT
- HOT MIX ASPHALT (BONDED WEARING COURSE-GAP GRADED)
- SHOULDER BACKING



DETAIL A

SHOULDER BACKING
ROUTE 202 EB
PM R1.40 TO R2.18
PM R2.78 To R2.91
PM R3.03 To R3.15
PM R3.21 To R3.57
PM R3.73 To R3.77
PM R4.97 To R5.02
PM R5.52 To R5.89
PM R6.00 TO R6.14
PM R6.24 TO R6.78
PM R6.84 TO R9.95
PM 7.30 To 7.33
PM 7.56 To 8.76

SHOULDER BACKING
ROUTE 202 WB
PM R1.40 TO R2.15
PM R2.34 To R2.47
PM R4.87 To R5.00
PM R5.55 To R5.75
PM R6.33 TO R6.48
PM 7.37 To 7.48
PM 7.83 To 7.86
PM 7.93 To 8.06
PM 8.11 To 8.72



DETAIL B

COLD PLANE TAPER AT SHOULDER

ROUTE	LOCATIONS (PM)	DIRECTION (EB/WB)	LENGTH	COLD PLANE AC PAVEMENT (0.08′ Max)	REMARK
			FT	SQYD	
202	R7.27/R7.40	WB	686	152	CURB
	R9.31/R9.42	EB	580	127	CURB
	8.72/R9.12	WB	2111	464	CURB
	8.77/R9.12	EB	1847	406	CURB
	R9.31/R9.42	EB	580	127	CURB
	TOTAL			1276*	

* QUANTITIES INCLUDED IN COLD PLANE AC PAVEMENT TABLE

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: LEE XIONG
CHECKED BY: KAMALDEEP KAUR
REVISED BY
DATE REVISED

LAST REVISION 12-23-11
DATE PLOTTED => 13-FEB-2012
TIME PLOTTED => 14:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	202	R1.4/11.9	6	14

Kamaldeep Kaur 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KAMALDEEP KAUR
No. C73047
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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

LOCATION OF EXISTING ELECTRICAL LOOPS AND DRAINAGE INLETS

ROUTE	PM	ELECTRICAL LOOP (N)	DRAINAGE INLET (N)	REMARKS
		EA	EA	
202	R1.614	2		CALTRANS
	R1.640	2		
	R2.920	2		
	R5.700	2		
	7.425	2		
	9.549		1	CITY OF TEHACHAPI
	9.520		1	
	9.475		1	
	9.415		1	
	9.413		1	
	9.395	12		CALTRANS
	9.392	20		
	9.368	14		
	9.348		1	CITY OF TEHACHAPI
	9.336		1	
	9.296		1	
	9.294		1	
	9.244		1	
	9.242		1	
	9.183		1	
	9.180		1	
	9.134		1	
	9.119		1	
	9.066		1	
	9.064		1	
	9.011		1	
	9.009		1	
	8.980		1	
	8.915		1	
	8.913		1	
	8.898	12		CALTRANS
	8.883	17		
	8.879	17		
	7.865	4		
	7.502	4		
	7.362	7		
	7.334	6		

CONSTRUCTION DETAILS

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: LEE XIONG
CHECKED BY: KAMALDEEP KAUR
REVISED BY
DATE REVISED

LAST REVISION 01-20-12
DATE PLOTTED => 13-FEB-2012
TIME PLOTTED => 14:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	202	R1.4/11.9	7	14

Kamaldeep Kaur 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

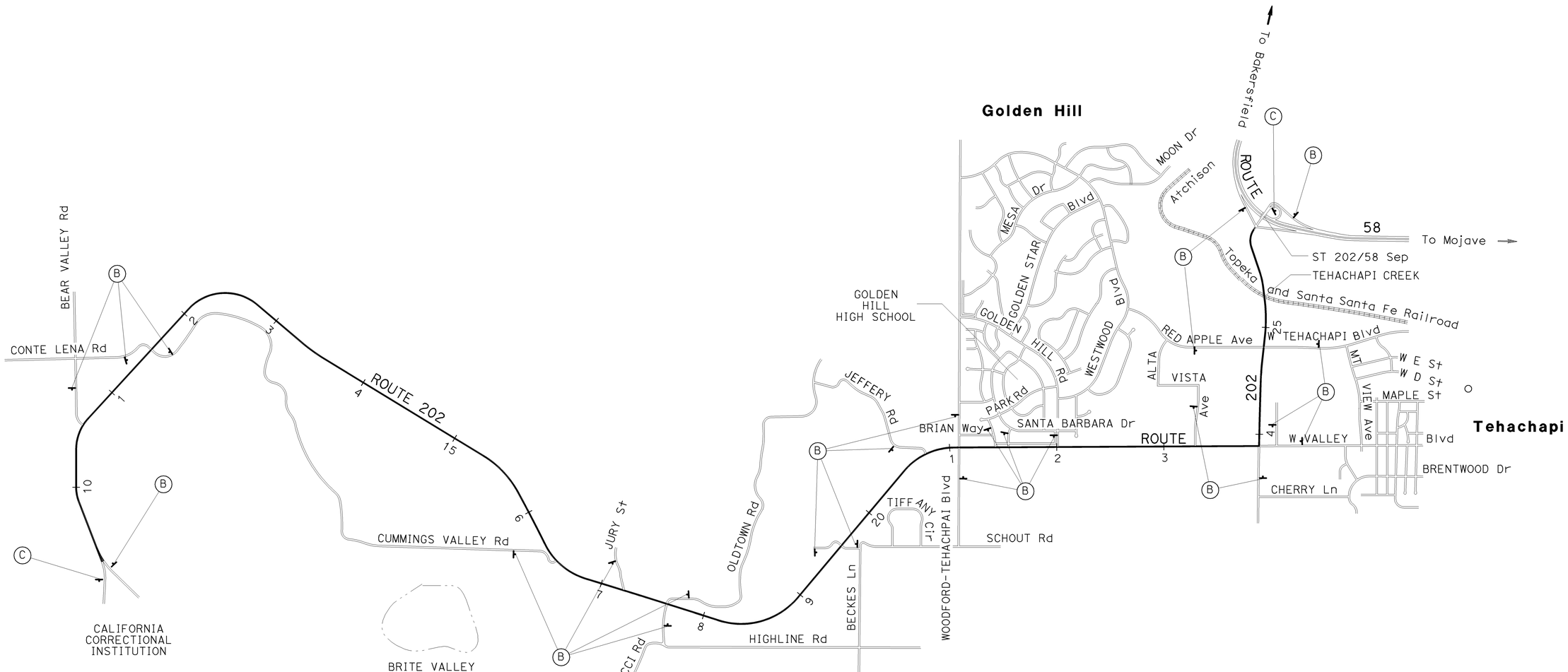
REGISTERED PROFESSIONAL ENGINEER
KAMALDEEP KAUR
No. C73047
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
(B)	W20-1	36" × 36"	ROAD WORK AHEAD	1 - 4" × 6"	24
(C)	G20-2	36" × 18"	END ROAD WORK	1 - 4" × 4"	2

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



CONSTRUCTION AREA SIGNS

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: LEE XIONG
CHECKED BY: KAMALDEEP KAUR
REVISED BY
DATE REVISED

LAST REVISION 01-12-12
DATE PLOTTED => 13-FEB-2012
TIME PLOTTED => 13:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	202	R1.4/11.9	8	14

Kamaldeep Kaur 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KAMALDEEP KAUR No. C73047 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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

ROADWAY QUANTITIES

PM	HOT MIX ASPHALT (BONDED WEARING COURSE-GAP GRADED)	ASHPALTIC EMULSION MEMBRANE (BONDED WEARING COURSE)	HMA (TYPE A)	TACK COAT	SHOULDER BACKING
	TON	TON	TON	TON	TON
R1.4/11.9	9540	95			265
REPAIR FAIL PAVEMENT (PM R5.5/7.3)			650	2	
TAPER (PUBLIC ROAD)	159	2			
TOTAL	9699	97	650	2	265

PAVEMENT DELINEATION QUANTITIES

ROUTE	PM	DETAIL No.	REMOVE THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC TRAFFIC STRIPE				PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)			THERMOPLASTIC PAVEMENT MARKING		REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER (N)
				4" SOLID	8" SOLID	4" (BROKEN 36 - 12)	4" (BROKEN 17 - 7)	TYPE H	TYPE D	TYPE G				
			LF	LF	LF	LF	LF	EA	EA	EA	DESCRIPTION	SQFT	SQFT	EA
202	R1.4 TO 11.9	6				5700			120		23-STOP MARKING	506	506	2330
		8					7100				LIMIT LINE	2370	2370	
		19		9780		9780		410	210		8-SIGNAL	256	256	
		21		9650							11-AHEAD	341	341	
		22		31,580					1320		2-TYPE I ARROW	62	62	
		27B		90,810							17-TYPE III (R) ARROW	714	714	
		28		53,090							24-TYPE III (L) ARROW	108	108	
		29		9440					200		3-TYPE VI ARROW	126	126	
		31		11,210		11,210								
		38	3220		1610					70				
		38A	3140		1570									
SUBTOTAL			6360	215,560	4340	21,560	7100	410	1850	70		4483	4483	2330
TOTAL			6360	215,560	4340	21,560	7100	2330				4483	4483	

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

RUMBLE STRIP

ROUTE	PM	LENGTH	CENTERLINE RUMBLE STRIP (GROUND-IN INDENTATIONS)	REMARK
		FT	STA	
202	R1.47/R1.62	792	7.92	PRISON GATE
	R1.97/R2.01	211	2.11	
	R2.01/R2.14	686	13.72	DETAIL 29
	R2.15/R2.34	1003	20.06	DETAIL 29
	R2.34/R2.42	422	4.22	
	R3.22/R3.46	1267	12.67	
	R4.12/R4.42	1584	15.84	
	R4.67/R4.85	950	9.50	
	R4.87/R5.30	2270	22.70	
	R5.30/R5.40	528	10.56	DETAIL 29
	R5.40/R5.47	370	3.70	
	R5.49/R5.56	370	3.70	
	R5.56/R5.66	528	10.56	DETAIL 29
	R5.66/R6.00	1795	17.95	
	R6.00/R6.02	74	0.74	
	R6.02/R6.03	85	0.85	
	R6.07/R6.14	417	4.17	
	R6.29/R6.31	48	0.48	
	R6.31/R6.32	85	0.85	
	R6.32/R6.35	135	1.35	
	R6.35/R6.45	570	5.70	
	R6.46/R6.47	42	0.42	
	R6.49/R6.62	676	6.76	
	R7.15/R7.16	85	0.85	
	R7.18/R7.28	512	5.12	
TOTAL			182.50	

TEMPORARY DRAINAGE INLET PROTECTION

ROUTE	PM	EA
202	9.549	1
	9.520	1
	9.475	1
	9.415	1
	9.413	1
	9.348	1
	9.336	1
	9.296	1
	9.294	1
	9.244	1
	9.242	1
	9.183	1
	9.180	1
	9.134	1
	9.119	1
	9.066	1
	9.064	1
	9.011	1
	9.009	1
	8.980	1
	8.915	1
	8.913	1

COLD PLANE AC PAVEMENT

DESCRIPTION	DETAILS	SQYD
CONFORM TAPER		2887
REPAIR AC FAILED PAVEMENT		4024
COLD PLANE TAPER AT SHOULDER	B	1276
	C	9599
TOTAL		17,786

CHANNELIZER (SURFACE MOUNTED)

PM	EA
R2.16	30
TOTAL	30

SUMMARY OF QUANTITIES

Q-1

REVISED BY: LEE XIONG | DATE REVISED | KAMALDEEP KAUR
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: FRANK GONZALEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

LAST REVISION 01-12-12 | DATE PLOTTED => 13-FEB-2012 | TIME PLOTTED => 13:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	202	R1.4/11.9	9	14

Kamaldeep Kaur 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KAMALDEEP KAUR
No. C73047
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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

REPAIR AC FAILED PAVEMENT

Ker 202							
BEGIN (PM)		END (PM)	LENGTH (LF) 12' WIDE	LENGTH (LF) 6' INSIDE	LENGTH (LF) 6' OUTSIDE	COLD PLANE AC PAVEMENT (0.25') SQYD	HMA (TYPE A) TON
EB	R5.698	R5.714	85			113	18
	R6.002	R6.016		74		49	8
	R6.018	R6.034	85			113	18
	R6.034	R6.076			222	148	24
	R6.076	R6.136	317			422	68
	R6.242	R6.274	169			225	37
	R6.296	R6.305	48			63	10
	R6.305	R6.321	85			113	18
	R6.321	R6.350		153		102	16
	R6.350	R6.458	570			760	123
	R6.469	R6.477	42			56	9
	R6.477	R6.493			85	56	9
	R6.493	R6.621	676			901	146
	R6.729	R6.740			58	39	6
	R7.153	R7.169	85			113	18
WB	R7.286	R7.189	512			684	111
	R6.110	R6.091	100			67	11
SUBTOTAL						4024*	650**

* QUANTITIES INCLUDED IN COLD PLANE AC PAVEMENT TABLE
** QUANTITIES INCLUDED IN ROADWAY QUANTITIES TABLE

LOCAL ROAD CONFORM TAPER / LONGITUDINAL CONFORM TAPER AT BEGIN AND END CONSTRUCTION

PM		SIDE	LOCATION	"L"	"W"	COLD PLANE AC PAVEMENT (0.08') SQYD	HMA (BWC-GAP GRADED) TON
1	R1.4		BEGIN	20'	28'	63	4
2	R1.47	Lt	BEAR VALLEY Rd	20'	26	58	3
3	R1.75	Rt	ROBERT Ave	28'	35'	108	6
4	R2.16	Rt/Lt	CUMMINGS VALLEY Rd	44'	37'	360	18
5	R2.45	Lt	PERCH St	16'	24'	43	3
6	R3.07	Lt	BERTRAM Cir	14'	21'	33	2
7	R3.50	Lt	BERTRAM Cir	14'	21'	33	2
8	R4.88	Rt	CUMMINGS VALLEY Rd	25'	34'	94	6
9	R5.27	Lt	JURY St	20'	28'	63	4
10	R5.51	Rt	BANDUCCI Rd	20'	36'	80	4
11	R5.51	Lt	OLD TOWN Rd	25'	35'	97	5
12	R5.58	Lt	ScHOUT Rd	20'	28'	63	4
13	R6.58	Rt/Lt	JEFFERY Rd	20'	28'	126	7
14	R7.40	Rt/Lt	WOODFORD-TEHACHAPI Rd	15'	54'	180	10
15	7.42	Rt	SOUTH St	20'	57'	127	7
16	7.48	Lt	MISSION St	10'	48'	54	3
17	7.54	Rt/Lt	SANTA LUCIA St	14'	48'	148	8
18	7.81	Lt	GOLDEN HILLS Blvd	17'	68'	128	7
19	8.01	Lt	LONELY Ln	20'	40'	89	5
20	8.18	Rt	SAGE Ln	10'	64'	71	4
21	8.50	Lt	SIERRA VISTA Dr	22'	30'	73	4
22	8.87	Rt	TUCKER Rd	20'	81'	180	9
23	8.87	Rt	W VALLEY Blvd	20'	83'	184	9
24	R9.37	Rt	W TEHACHAPI Blvd	20'	81'	180	9
25	R9.37	Lt	RED APPLE Ave	20'	28'	63	4
26	R9.53		BRIDGE APPROACH	20'	28'	63	4
27	R9.62		BRIDGE APPROACH	20'	28'	63	4
28	11.9		END	20'	28'	63	4
TOTAL						2887*	159**

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: LEE XIONG
CHECKED BY: KAMALDEEP KAUR
REVISED BY
DATE REVISED

LAST REVISION 01-12-12
DATE PLOTTED => 13-FEB-2012
TIME PLOTTED => 13:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	202	R1.4/11.9	10	14

Kamaldeep Kaur 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KAMALDEEP KAUR
No. C73047
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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

LOCATIONS OF UTILITIES FACILITIES

ROUTE	PM	ADJUST MONUMENT TO GRADE	ADJUST WATER VALVE COVER TO GRADE	ADJUST MANHOLE TO GRADE			REMARKS
				STORM DRAIN	SEWAGE	UTILITY	
		EA	EA	EA	EA	EA	
202	R1.614						CALTRANS
	R1.640						
	R2.920						
	R5.700						
	7.425						
	9.808	1					
	9.717	1					
	9.582	1					
	9.549						
	9.544	1					
	9.520						
	9.452	1					
	9.475						
	9.415						
	9.413						CITY OF TEHACHAPI
	9.395						
	9.392						
	9.380		1				
	9.368						
	9.348						
	9.336						
	9.296						CALTRANS
	9.294						
	9.253	1					
	9.244						
	9.242						
	9.183						CITY OF TEHACHAPI
	9.180						
	9.134						
	9.133				1		
	9.127		2				
	9.126				1		
	9.119						
	9.121			1			
	9.117		1				
	9.107		1				
	9.066						
	9.064				1		
SUBTOTAL		6	5	1	3		

ROUTE	PM	ADJUST MONUMENT TO GRADE	ADJUST WATER VALVE COVER TO GRADE	ADJUST MANHOLE TO GRADE			REMARKS
				STORM DRAIN	SEWAGE	UTILITY	
		EA	EA	EA	EA	EA	
202	9.060		1				CITY OF TEHACHAPI
	9.053		1				
	9.011						
	9.009						CALTRANS
	9.004	1					
	9.003		1				CITY OF TEHACHAPI
	8.995				1		
	8.980						
	8.934				1		
	8.915						
	8.913						
	8.898						
	8.894				1		
	8.883		1				
	8.883	1	1		1		CALTRANS/ CITY OF TEHACHAPI
	8.879	1	1		1		
	8.866		1				CITY OF TEHACHAPI
	8.856		1				
	8.847		1				
	8.835					1	PAC BELL
	8.824				1		CITY OF TEHACHAPI
	8.808		1				
	8.782					1	PAC BELL
	8.781		1				CITY OF TEHACHAPI
	8.780		1				
	8.752					1	PAC BELL
	8.749		1			1	PAC BELL/ CITY OF TEHACHAPI
	7.865						
	7.502						
	7.410				1		PAC BELL
	7.362						PAC BELL/ CITY OF TEHACHAPI
	7.348	1				1	
	7.334						
	7.326	1					CITY OF TEHACHAPI
SUBTOTAL		5	13	0	7	5	
TOTAL		11	18	16			

SUMMARY OF QUANTITIES

Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: LEE XIONG
CHECKED BY: KAMALDEEP KAUR
REVISED BY
DATE REVISED

LAST REVISION 01-12-12
DATE PLOTTED => 13-FEB-2012
TIME PLOTTED => 13:41

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Ker	202	R1.4/11.9	11	14

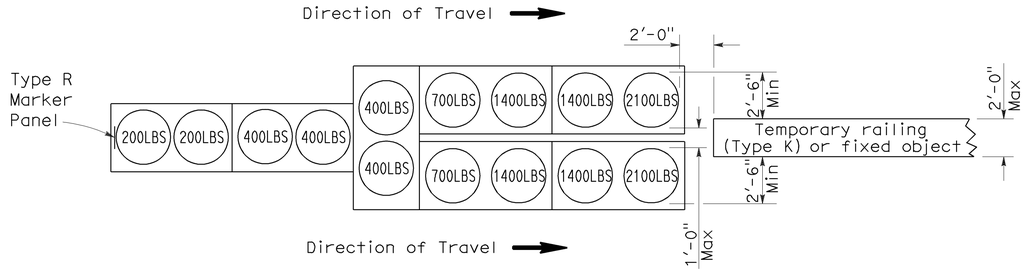
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

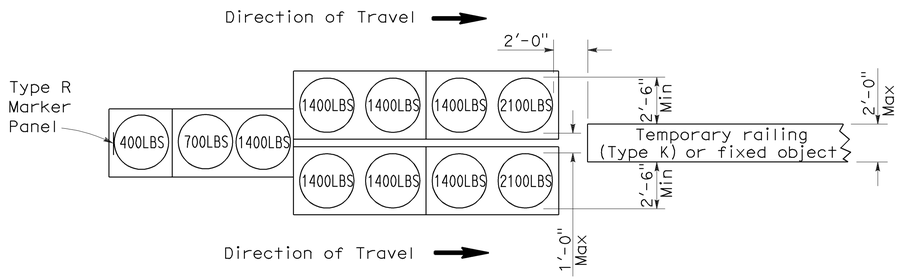
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 1-23-12



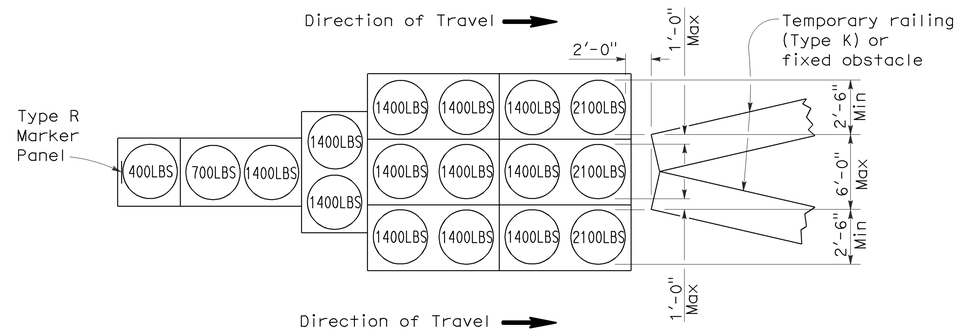
ARRAY 'TU14'

Approach speed 45 mph or more



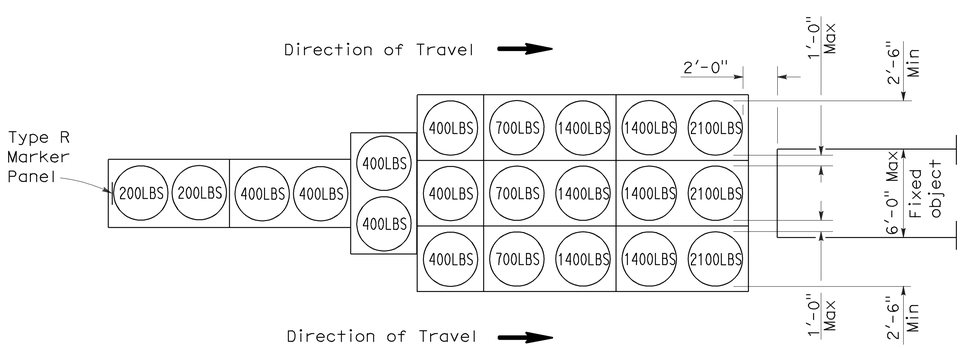
ARRAY 'TU11'

Approach speed less than 45 mph



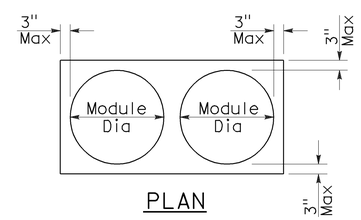
ARRAY 'TU17'

Approach speed less than 45 mph

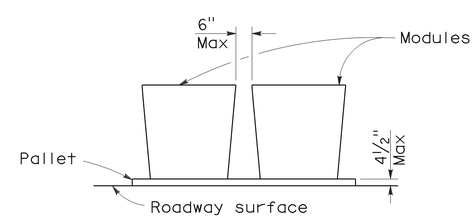


ARRAY 'TU21'

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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Ker	202	R1.4/11.9	12	14

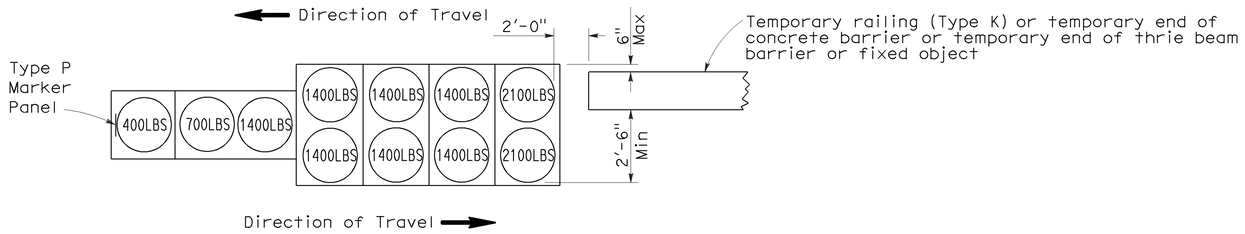
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

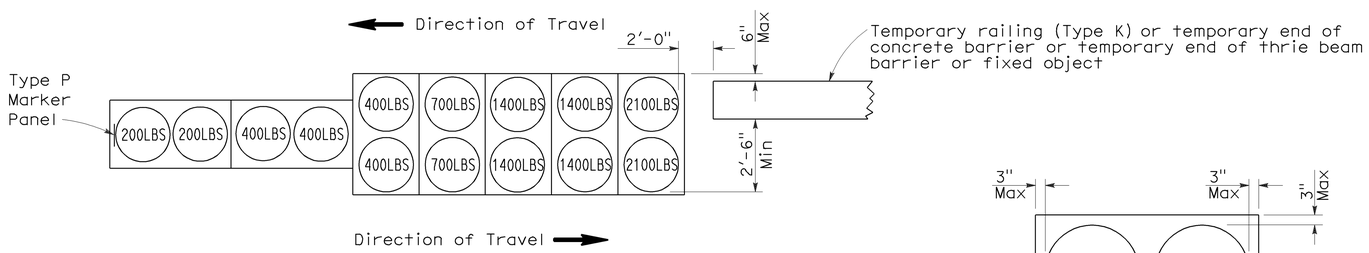
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 1-23-12



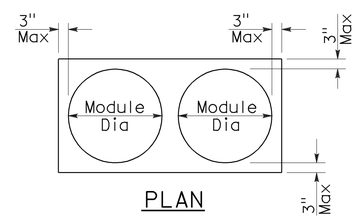
ARRAY 'TB11'

Approach speed less than 45 mph

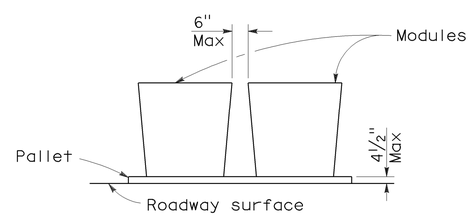


ARRAY 'TB14'

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
06	Ker	202	R1.4/11.9	13	14

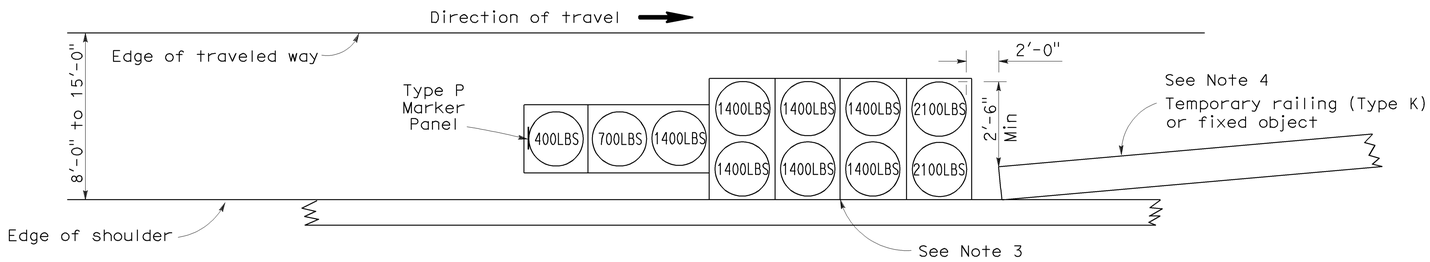
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

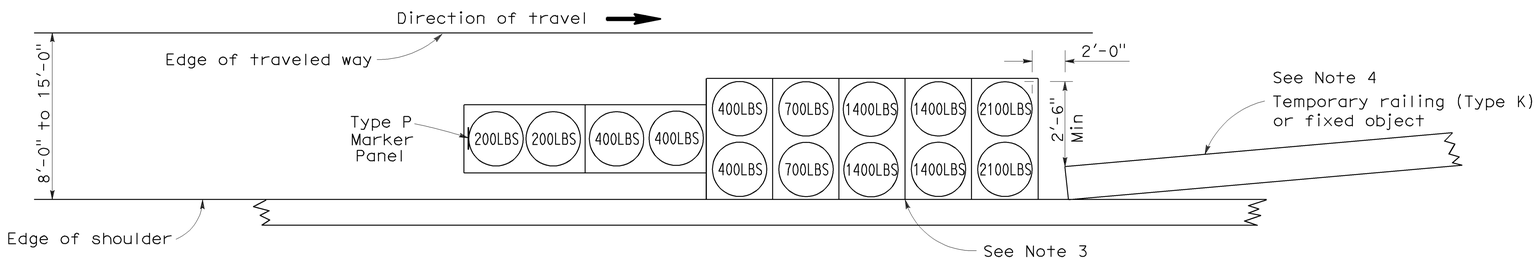
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 1-23-12



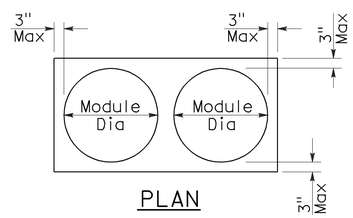
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

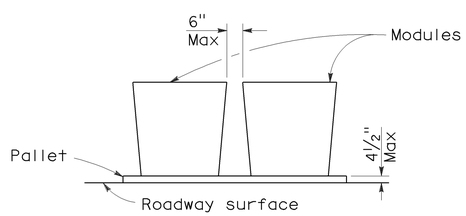


ARRAY 'TS14'

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
06	Ker	202	R1.4/11.9	14	14

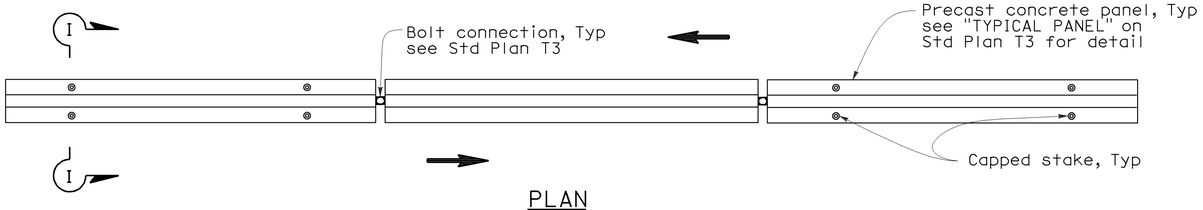
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

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.

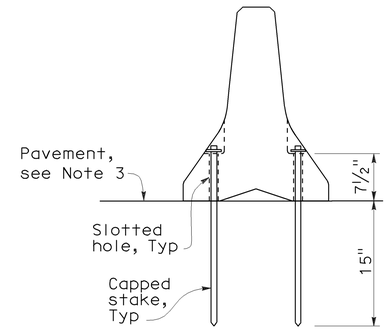
To accompany plans dated 1-23-12



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

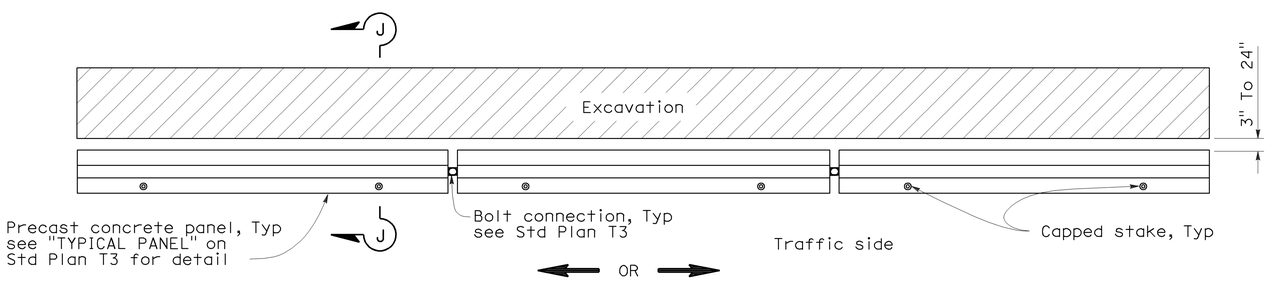
See Note 1



SECTION I-I

NOTES:

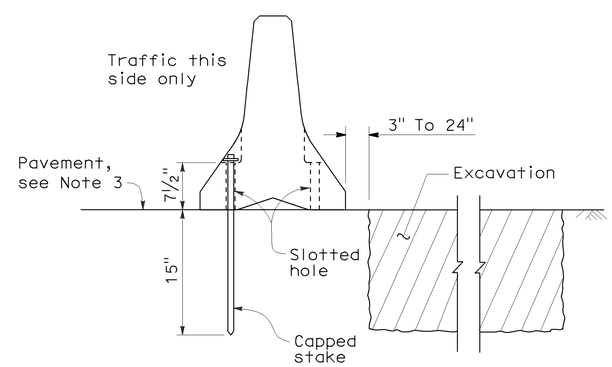
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of 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 ⟶.



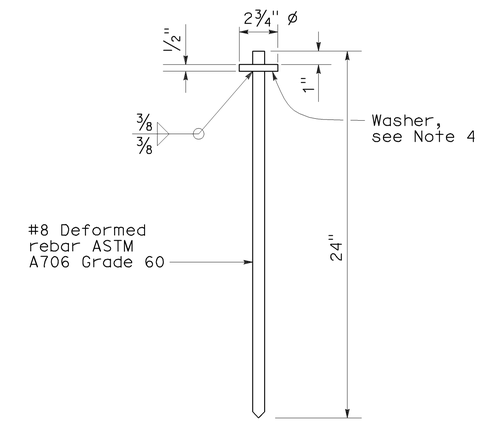
PLAN

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