Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	1	17

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

ACSTP-P128(053)E

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN NAPA COUNTY
NEAR NAPA
FROM KNOXVILLE ROAD
TO SOLANO COUNTY LINE

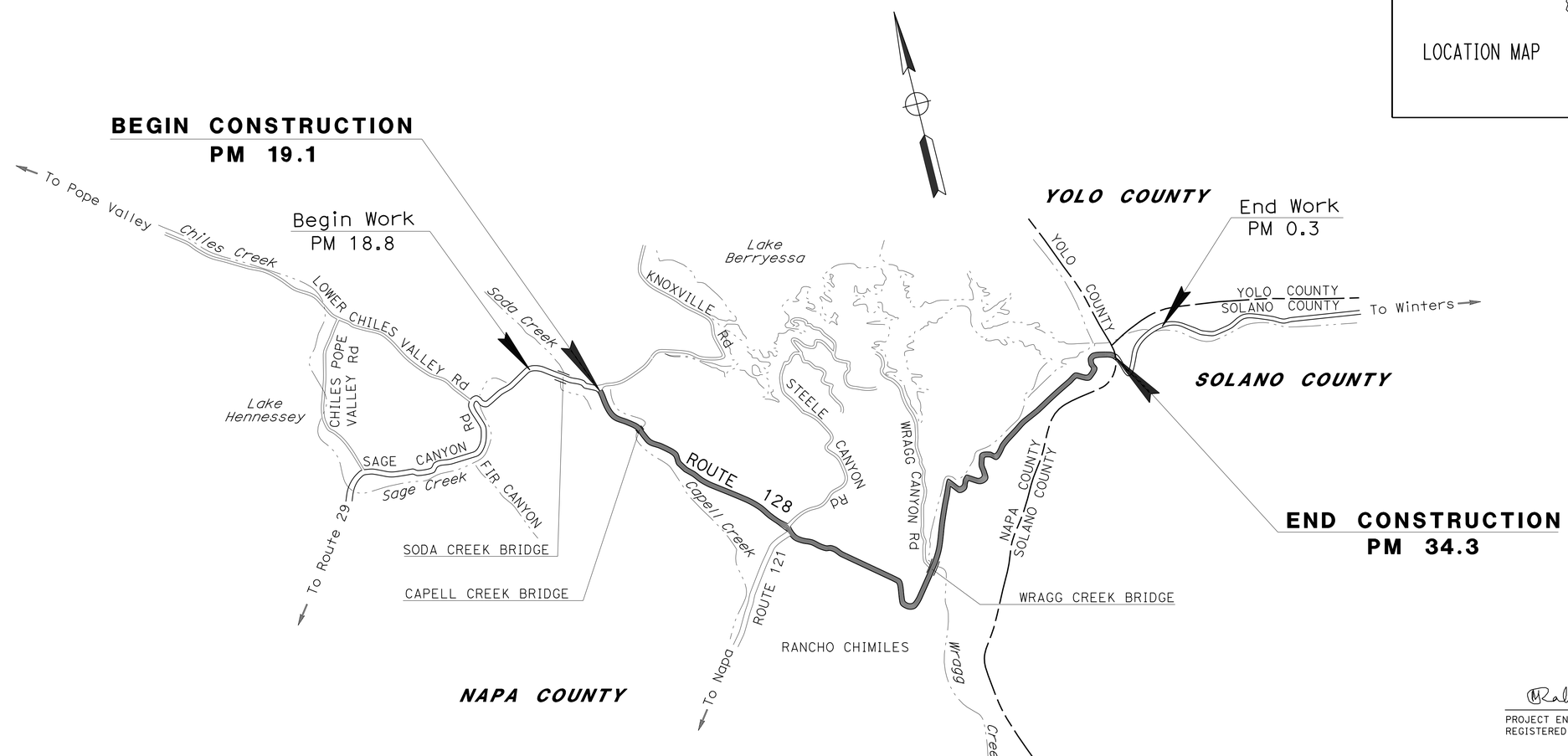
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5 & 6	PAVEMENT DELINEATION QUANTITIES
7 - 11	SUMMARY OF QUANTITIES
12 - 16	REVISED STANDARD PLANS

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

LOCATION MAP



NO SCALE

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

PROJECT MANAGER: RAMSES SARGISS

DESIGN MANAGER: RONNIE CHUA

Rahman 10-4-13

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

October 7, 2013

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Md Mustaqur Rahman — No. 75824 — Exp. 6-30-14 — 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.

CONTRACT No.	04-3E4001
PROJECT ID	0412000303

LAST REVISION 10-04-13

DATE PLOTTED => 20-DEC-2013
TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	2	17

REGISTERED CIVIL ENGINEER 10/8/12 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Md Mustaqur Rahman No. 75824 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

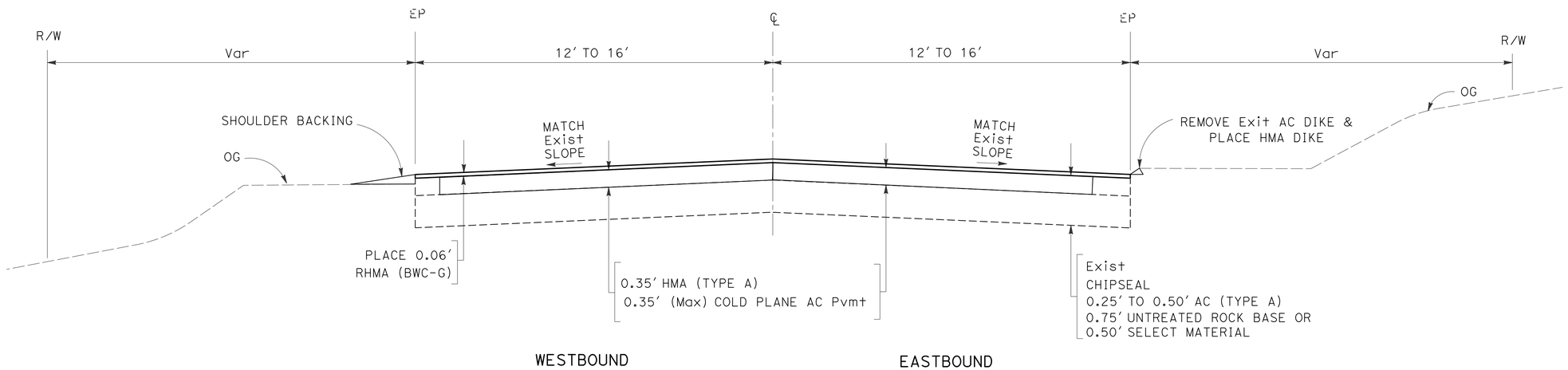
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. EXISTING UTILITY FACILITIES ARE NOT PLOTTED ON THESE PLANS.
3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
4. FOR THE TYPE AND LOCATION OF DIKE, PLEASE SEE Q-SHEET.
5. FOR LOCATION AND DIMENSION OF COLD PLANE AC PAVEMENT, PLEASE SEE Q-SHEET

ABBREVATION:

BWC-G BONDED WEARING COURSE-GAP GRADED



ROUTE 128

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **DESIGN**

FUNCTIONAL SUPERVISOR: RAMSES SARGISS

CALCULATED-DESIGNED BY: MUSTAQUR RAHMAN

CHECKED BY: RONNIE CHUA

REVISED BY: MR

DATE REVISED: 9/24/12

LAST REVISION 08-29-13

DATE PLOTTED => 20-DEC-2013

TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	3	17

REGISTERED CIVIL ENGINEER DATE 10/8/12

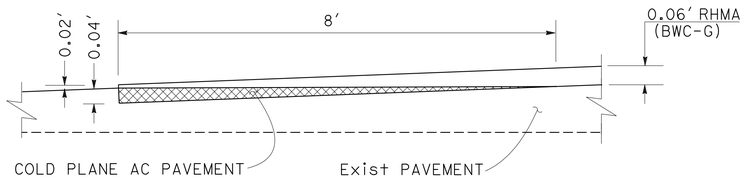
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Md Mustaqur Rahman No. 75824 Exp. 6-30-14 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.

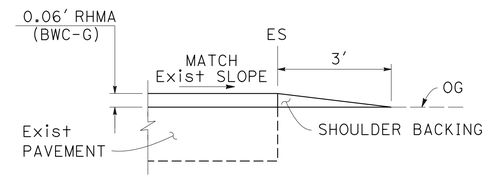
ABBREVIATION:

BWC-G BONDED WEARING COURSE-GAP GRADED



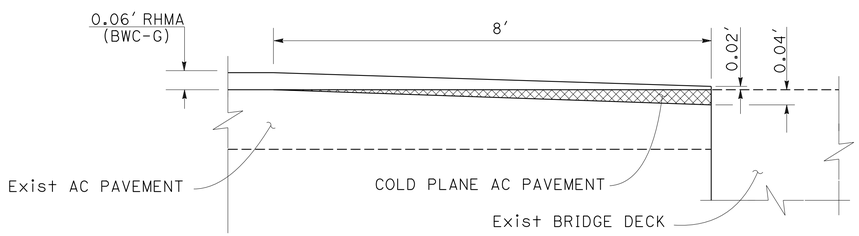
DETAIL A

CONFORM AT THE BEGINNING, END AND CROSS STREETS



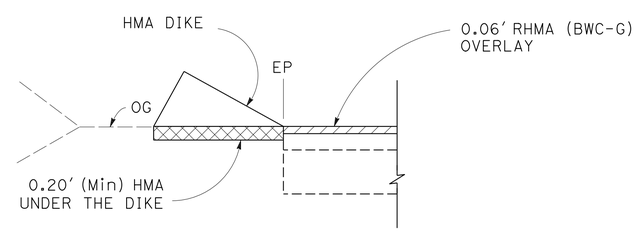
TYPICAL

SHOULDER BACKING



DETAIL B

PAVING CONFORM AT BRIDGE APPROACH



TYPICAL

PLACE HMA DIKE

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY	MR
DATE REVISED	9/24/12
CALCULATED-DESIGNED BY	MUSTAQUR RARHMAN
CHECKED BY	RONNIE CHUA
FUNCTIONAL SUPERVISOR	RAMSES SARGISS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN

LAST REVISION 08-29-13 DATE PLOTTED => 20-DEC-2013 TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	4	17

REGISTERED CIVIL ENGINEER 10/8/12 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Duc Duy Vo No. 74538 Exp. 12-31-13 CIVIL STATE OF CALIFORNIA

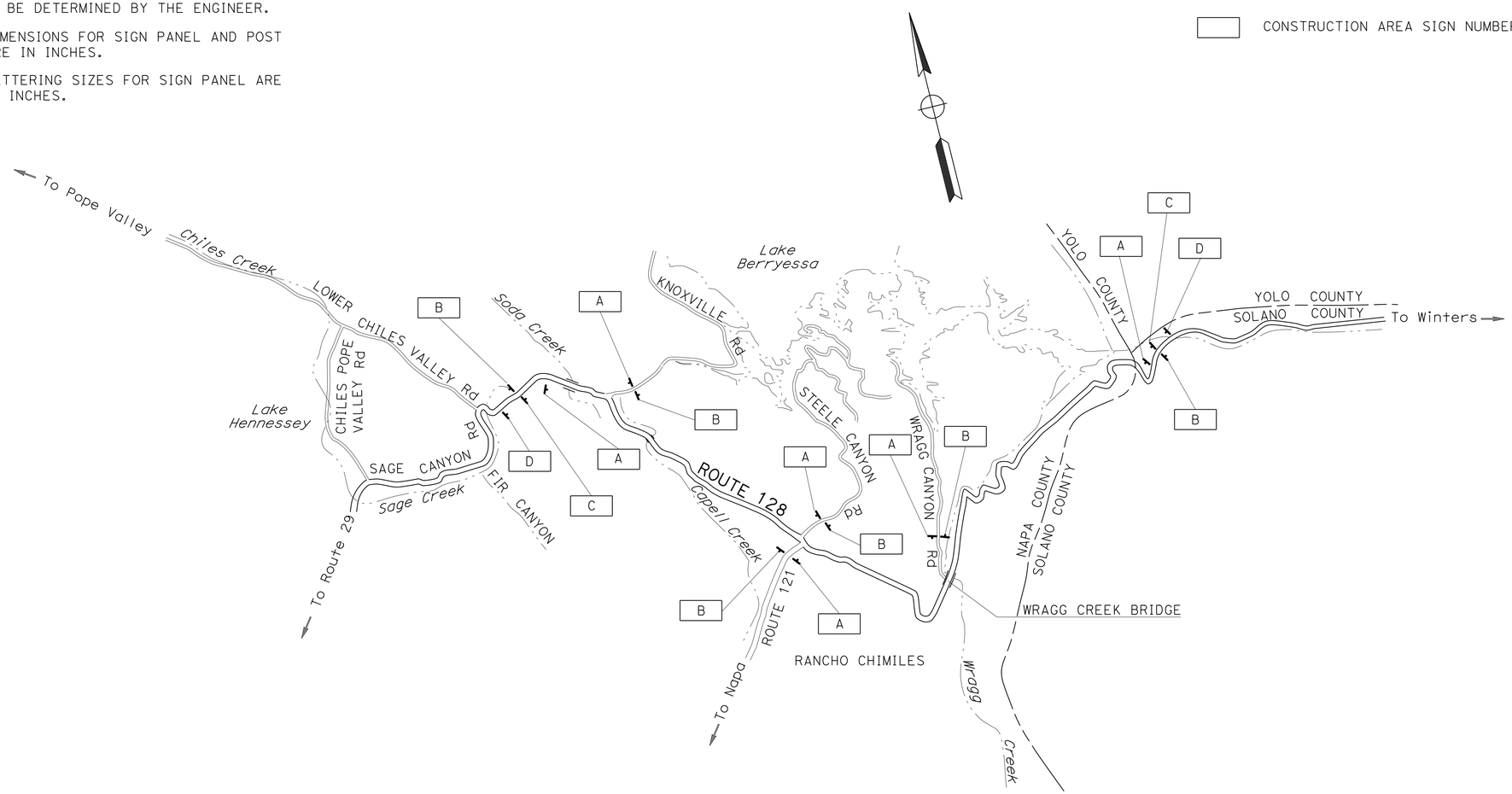
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXACT LOCATION AND POSITION OF SIGN TO BE DETERMINED BY THE ENGINEER.
2. DIMENSIONS FOR SIGN PANEL AND POST ARE IN INCHES.
3. LETTERING SIZES FOR SIGN PANEL ARE IN INCHES.

LEGEND:

CONSTRUCTION AREA SIGN NUMBER



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1		24" x 24"	ROAD WORK AHEAD	(ONE) 4" x 4"	6
B	G20-2		36" x 18"	END ROAD WORK	(ONE) 4" x 4"	6
C	G20-1(30)		60" x 36"	ROAD CONSTRUCTION NEXT 15 MILES	(TWO) 4" x 4"	2
D		C40(CA)	72" x 36"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONE	(TWO) 4" x 6"	2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

REVISED BY	DV
DATE REVISED	9/24/12
CALCULATED-DESIGNED BY	DUC DUY VO
CHECKED BY	JERILYN L STRUYEN
FUNCTIONAL SUPERVISOR	JERILYN L STRUYEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

TRAFFIC

LAST REVISION 08-29-13 | DATE PLOTTED => 20-DEC-2013 | TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	5	17

REGISTERED CIVIL ENGINEER DATE 10/8/12

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Md Mustaqur Rahman No. 75824 Exp. 6-30-14 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.

NOTE:

ALL EXISTING PAVEMENT DELINEATION REMOVED SHALL BE REPLACED IN KIND AT THE SAME LOCATION AS THE EXISTING

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOCATION (PM) FROM	LOCATION (PM) TO	DIRECTION	DETAIL No.	4" THERMOPLASTIC TRAFFIC STRIPE YELLOW	4" THERMOPLASTIC TRAFFIC STRIPE WHITE	4" THERMOPLASTIC TRAFFIC STRIPE YELLOW (BROKEN 36-12)	4" THERMOPLASTIC TRAFFIC STRIPE WHITE (BROKEN 17-7)	RETROREFLECTIVE PAVEMENT MARKER TYPE D	RETROREFLECTIVE PAVEMENT MARKER TYPE H	RETROREFLECTIVE PAVEMENT MARKER TYPE D (RECESSED)	RETROREFLECTIVE PAVEMENT MARKER TYPE H (RECESSED)	THERMOPLASTIC PAVEMENT MARKING YELLOW	THERMOPLASTIC PAVEMENT MARKING WHITE	REMOVE THERMOPLASTIC PAVEMENT STRIPE YELLOW	REMOVE THERMOPLASTIC PAVEMENT STRIPE WHITE	REMOVE THERMOPLASTIC PAVEMENT MARKING YELLOW	REMOVE THERMOPLASTIC PAVEMENT MARKING WHITE	REMOVE PAVEMENT MARKER
				LF				EA				SQFT		LF		SQFT		EA
19.10	20.94	MEDIAN	22	19399				810						19399				810
19.10	21.37	EB	27B		11986										11986			
19.10	23.83	WB	27B		24959										24959			
20.94	21.09	MEDIAN	19 (EB BROKEN)	829		829		18	36					1036.2				54
21.09	21.17		6			407		9						101.64				9
21.17	21.328		19 (WB BROKEN)	829		829		18	36					1036.2				54
21.33	21.41		22	887				39						887				39
21.40	21.42		8				116								33.88			
21.42			STOP STOP										44				44	
			1' LL		105										105			
21.42	21.49		22	750				33						750				33
21.42	23.895	EB	27B		13047										13047			
21.49	21.6	MEDIAN	19 (EB BROKEN)	581		581		13	25					726				38
21.60	21.65		6			238		6						59.4				6
21.65	21.75		19 (WB BROKEN)	554		554		13	24					693				37
21.75	21.86		22	1109				48						1109				48
21.86	21.98		19 (EB BROKEN)	644		644		14	28					805.2				42
21.98	22.49		6			2724		58						681.12				58
22.49	22.97		19 (WB BROKEN)	2519		2519		53	106					3148.2				159
22.97	23.12		22	1573				68						1573				68
23.01		EB	SCHOOL XING									56				56		
23.12	23.84	MEDIAN	22	7561				317						7561				317
23.12		EB & WB	1' PED XING	180														
23.22		WB	SCHOOL XING									56				56		
23.78		EB	STOP AHEAD										53				53	
23.83	23.85	WB	8				132								38.5			
23.84		STEELE CANYON ROAD	1' LL		150													
			STOP STOP										44				44	
23.84	23.90	MEDIAN	22	549				25						549				25
23.85	27.89	WB	27B		21321										21321			
23.90		EB	STOP										22				22	
		EB	1' LL		102													
SUB TOTAL				37964	71669	9324	248	1542	254			112	163	40115	71489	112	163	1798

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY	DATE REVISED
MR	9/24/12

MUSTAQUR RAHMAN — RONNIE CHUA — CALCULATED-DESIGNED BY — CHECKED BY — FUNCTIONAL SUPERVISOR — RAMSES SARGISS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

LAST REVISION 08-29-13 | DATE PLOTTED => 20-DEC-2013 TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	6	17

REGISTERED CIVIL ENGINEER DATE 10/8/12

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Md Mustaqur Rahman No. 75824 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

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TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOCATION (PM) FROM	LOCATION (PM) TO	DIRECTION	DETAIL No.	4" THERMOPLASTIC TRAFFIC STRIPE YELLOW	4" THERMOPLASTIC TRAFFIC STRIPE WHITE	4" THERMOPLASTIC TRAFFIC STRIPE YELLOW (BROKEN 36-12)	4" THERMOPLASTIC TRAFFIC STRIPE WHITE (BROKEN 17-7)	RETROREFLECTIVE PAVEMENT MARKER TYPE D	RETROREFLECTIVE PAVEMENT MARKER TYPE H	RETROREFLECTIVE PAVEMENT MARKER TYPE D (RECESSED)	RETROREFLECTIVE PAVEMENT MARKER TYPE H (RECESSED)	THERMOPLASTIC PAVEMENT MARKING YELLOW	THERMOPLASTIC PAVEMENT MARKING WHITE	REMOVE THERMOPLASTIC PAVEMENT STRIPE YELLOW	REMOVE THERMOPLASTIC PAVEMENT STRIPE WHITE	REMOVE THERMOPLASTIC PAVEMENT MARKING YELLOW	REMOVE THERMOPLASTIC PAVEMENT MARKING WHITE	REMOVE PAVEMENT MARKER
				LF				EA				SQFT		LF		SQFT		EA
23.90	34.30	EB	27B		54923													
23.90	24.13	MEDIAN	22	2387				101						2387	54923			101
24.13	24.23		19 (EB BROKEN)	554		554		13	24					693				37
24.23	24.44		19 (WB BROKEN)	1109		1109		24	47					1386				71
24.44	25.59		22	12144				508						12144				508
25.59	25.75		19 (EB BROKEN)	818		818		18	35					1023				53
25.75	25.81		6			359		8						89.76				8
25.81	25.97		19 (WB BROKEN)	829		829		18	36					1036.2				54
25.97	27.45		22	15629				653						15629				653
27.45	27.57		19 (EB BROKEN)	634		634		14	27					792				42
27.57	27.75		6			950		21						237.6				21
27.75	27.89		19 (WB BROKEN)	739		739		16	32					924				48
27.89	27.90	WB	8												12.32			
27.90		WRAGG CANYON ROAD	1' LL STOP		102		42						22				22	
27.90	28.27	MEDIAN	22	3949				167						3949				167
27.90	34.30	WB	27B		33803										33803			
28.27	32.26	MEDIAN	22 (RECESSED)	42113						1757				42113				1757
32.26	32.35		19 (RECESSED; EB BROKEN)	486		486				11	21			607.2				32
32.35	32.52		19 (RECESSED; WB BROKEN)	898		898				20	38			1122				58
32.52	34.30		22 (Recessed)	18797						785				18797				785
SUB TOTAL				101086	88827	7376	42	1562	201	2573	60		22	102930	88737		22	4396
SUB TOTAL PDQ 1				37964	71669	9324	248	1543	254			112	163	40115	71489	112	163	1798
TOTAL				139050	160496	16700	290	3105	455	2573	60	112	185	143044	160227	112	185	6194
GRAND TOTAL				316536				3560		2633		297		143045	160226	112	185	6194

PAVEMENT DELINEATION QUANTITIES

PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN

FUNCTIONAL SUPERVISOR: RAMSES SARGISS

CALCULATED-DESIGNED BY: MUSTAQUR RAHMAN

CHECKED BY: RONNIE CHUA

REVISED BY: MR

DATE REVISED: 9/24/12

LAST REVISION 08-29-13 | DATE PLOTTED => 20-DEC-2013 | TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	7	17

REGISTERED CIVIL ENGINEER DATE 10/8/12

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Md Mustaqur Rahman No. 75824 Exp. 6-30-14 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.

NOTES:

1- THE POST MILE LOCATION OF EXISTING AC DIKE IS TENTATIVE, ACTUAL LOCATION SHOULD BE IDENTIFIED BY THE ENGINEER.

2- ANY EXISTING SPILLWAYS/ SURFACE DRAINS IN DIKES HAVE TO BE MAINTAINED OR REPLACE IN KIND

COLD PLANE AC PAVEMENT (0.35' Max) AND PLACE HOT MIX ASPHALT (TYPE A)

LOCATION (PM) FROM	LOCATION (PM) TO	DIRECTION	COLD PLAN AC PAVEMENT (0.35' Max) LENGTH	WIDTH	AREA	HOT MIX ASPHALT (TYPE A)	TACK COAT
			LF (N)		SQYD	TON	
19.3	19.32	EB	100	12	133	31.50	0.06
19.39	19.40		50	12	67	15.75	0.03
19.54	19.56		100	12	133	31.50	0.06
19.7	19.72		100	12	133	31.50	0.06
19.76	19.77		50	12	67	15.75	0.03
19.78	19.80		100	12	133	31.50	0.06
20.00	20.02		100	12	133	31.50	0.06
20.05	20.07		100	12	133	31.50	0.06
20.19	20.23		100	12	133	31.50	0.06
20.23	20.25		100	12	133	31.50	0.06
20.26	20.27		30	12	40	9.45	0.02
20.27	20.29		100	12	133	31.50	0.06
20.3	20.31		100	12	133	31.50	0.06
20.38	20.41		150	12	200	47.25	0.09
20.45	20.51		200	12	267	63.00	0.11
20.6	20.67		250	12	333	78.75	0.14
20.68	20.72		150	12	200	47.25	0.09
21.16	21.18		100	12	133	31.50	0.06
21.38	21.42		200	12	267	63.00	0.11
21.8	21.84		200	12	267	63.00	0.11
21.85	21.88		175	12	233	55.13	0.10
21.89	21.92		175	12	233	55.13	0.10
21.99	22.02		150	12	200	47.25	0.09
22.04	22.05		60	12	80	18.90	0.03
22.1	22.11		50	12	67	15.75	0.03
22.19	22.24		240	12	320	75.60	0.14
22.35	22.37		100	12	133	31.50	0.06
22.65	22.67		100	12	133	31.50	0.06
SUB TOTAL					4573	1080.45	1.95

LOCATION (PM) FROM	LOCATION (PM) TO	DIRECTION	COLD PLAN AC PAVEMENT (0.35' Max) LENGTH	WIDTH	AREA	HOT MIX ASPHALT (TYPE A)	TACK COAT
			LF (N)		SQYD	TON	
19.28	19.29	WB	75	12	100	23.63	0.04
19.43	19.46		150	12	200	47.25	0.09
19.92	19.98		300	12	400	94.50	0.17
20.56	20.60		200	12	267	63.00	0.11
21.1	21.12		100	12	133	31.50	0.06
21.3	21.36		300	12	400	94.50	0.17
21.62	21.68		300	12	400	94.50	0.17
21.92	21.94		100	12	133	31.50	0.06
21.97	22.01		200	12	267	63.00	0.11
22.04	22.05		30	12	40	9.45	0.02
22.35	22.38		150	12	200	47.25	0.09
22.5	22.51		45	12	60	14.18	0.03
23.3	23.32		100	12	133	31.50	0.06
23.34	23.36		85	12	113	26.78	0.05
23.38	23.39		65	12	87	20.48	0.04
23.69	23.70		65	12	87	20.48	0.04
23.71	23.73		115	12	153	36.23	0.07
23.76	23.80		200	12	267	63.00	0.11
23.81	23.82		50	12	67	15.75	0.03
24.1	24.12		80	12	107	25.20	0.05
24.28	24.36		200	12	267	63.00	0.11
24.37	24.38		50	12	67	15.75	0.03
24.66	24.66		25	12	33	7.88	0.01
24.88	24.90		100	12	133	31.50	0.06
25.1	25.15		250	12	333	78.75	0.14
25.25	25.27		125	12	167	39.38	0.07
25.66	25.67		55	12	73	17.33	0.03
25.72	25.73		30	12	40	9.45	0.02
SUB TOTAL					4727	1116.68	2.01

SUMMARY OF QUANTITIES

Q-1

REVISED BY	DATE REVISED
MR	9/24/12

MUSTAQUR RAHMAN — RONNIE CHUA — CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: RAMSES SARGISS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

LAST REVISION 08-29-13 — DATE PLOTTED => 20-DEC-2013 — TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	8	17

REGISTERED CIVIL ENGINEER 10/8/12 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Md Mustaqur Rahman No. 75824 Exp. 6-30-14 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.

COLD PLANE AC PAVEMENT (0.35' Max) AND PLACE HOT MIX ASPHALT (TYPE A)

LOCATION (PM)		DIRECTION	COLD PLAN AC PAVEMENT (0.35' Max)			HOT MIX ASPHALT (TYPE A)	TACK COAT
FROM	TO		LENGTH	WIDTH	AREA		
			LF (N)		SQYD	TON	
22.88	22.90	EB	100	12	133	31.50	0.06
23.34	23.38		190	12	253	59.85	0.11
23.38	23.40		95	12	127	29.93	0.05
23.42	23.44		90	12	120	28.35	0.05
23.45	23.48		180	12	240	56.70	0.10
23.65	23.70		275	12	367	86.63	0.16
23.85	23.87		130	13	188	44.36	0.08
23.9	23.93		175	12	233	55.13	0.10
23.95	23.97		208	12	277	65.52	0.12
24.1	24.12		100	12	133	31.50	0.06
24.37	24.39		108	12	144	34.02	0.06
24.72	24.79		325	12	433	102.38	0.18
24.84	24.85		72	12	96	22.68	0.04
24.92	24.94		85	12	113	26.78	0.05
24.98	24.99		55	12	73	17.33	0.03
25.05	25.06		40	12	53	12.60	0.02
25.3	25.37		300	12	400	94.50	0.17
25.47	25.48		30	12	40	9.45	0.02
25.56	25.57		75	12	100	23.63	0.04
25.6	25.61		35	12	47	11.03	0.02
25.67	25.68		65	12	87	20.48	0.04
25.69	25.70		50	12	67	15.75	0.03
25.72	25.73		30	12	40	9.45	0.02
28.41	28.43		100	12	133	31.50	0.06
31.77	31.78		50	12	67	15.75	0.03
31.8	31.81		40	12	53	12.60	0.02
SUB TOTAL					4017	949.40	1.72

ROADWAY QUANTITIES

LOCATION (PM)		DIRECTION	RUBBERIZED HOT MIX ASPHALT (BONDED WEARING COURSE-GAP GRADED)	ASPHALTIC EMULSION MEMBRANE (BWC)	HOT MIX ASPHALT (TYPE A)
FROM	TO		TON		
19.10	20.23	EB & WB	894.80	18.05	
20.27	23.90	EB & WB	3055.60	61.64	
23.90	27.90	EB & WB	3168.00	63.91	
27.90	34.30	EB & WB	5385.60	108.65	
ADDITIONAL HMA (TYPE A) TO PREPARE SURFACE FOR HMA DIKE (TYPE E)					154.00
SUB TOTAL			12504.00	252.25	154.00

COLD PLANE AC PAVEMENT (AT CONFORM LOCATIONS)

LOCATION (PM)		AREA
FROM	TO	SQYD
19.10	34.30	700
SUB TOTAL		700

CRACK TREATMENT

LOCATION (PM)		DIRECTION	LENGTH
FROM	TO		LNMI
19.10	34.30	EB	3
		WB	3
SUB TOTAL			6

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN

FUNCTIONAL SUPERVISOR: RAMSES SARGISS

CALCULATED-DESIGNED BY: MUSTAQUR RAHMAN

CHECKED BY: RONNIE CHUA

REVISED BY: MR

DATE REVISED: 9/24/12

LAST REVISION 08-29-13 DATE PLOTTED => 20-DEC-2013 TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	9	17

REGISTERED CIVIL ENGINEER 10/8/12 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Md Mustaqur Rahman No. 75824 Exp. 6-30-14 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.

REMOVE AC DIKE AND PLACE HMA DIKE

LOCATION (PM) FROM	LOCATION (PM) TO	DIRECTION	REMOVE AC DIKE	TYPE OF Exist DIKE	PLACE HMA DIKE (TYPE C)	PLACE HMA DIKE (TYPE E)	PLACE HMA DIKE (TYPE F)	PLACE HMA DIKE HOT MIX ASPHALT (TYPE A)
			LF		LF			TON
19.41	19.43	EB	106	A		106		2.78
19.69	19.74		264	A		264		6.95
19.82	19.88		317	A		317		8.34
20.27	20.31		211	A		211		5.56
20.31	20.42		581	A				
20.60	20.65		264	A				
21.04	21.18		739	A				
21.27	21.33		317	A				
21.35	21.38		158	A				
21.46	21.61		742	A		742		19.53
21.62	21.79		848	A				
21.81	21.82		50	A				
22.05	22.17		634	A				
22.35	22.45		528	A				
22.46	22.53		370	A		370		9.73
23.05	23.08		158	A		158		4.17
23.12	23.15		150	A		150		3.95
23.87	23.90		158	A		158		4.17
23.91	23.96		264	A		264		6.95
25.30	25.37		370	A				
25.54	25.69		792	A		792		20.85
25.86	25.99		686	A		686		18.07
26.07	26.12		264	A		264		6.95
26.17	26.21		211	A		211		5.56
26.54	26.59		264	A		264		6.95
26.87	26.98		581	A		581		15.29
27.02	27.14		634	A		634		16.68
27.76	27.77		53	A				
27.85	28.00		792	A		792		20.85
29.30	29.33		158	A		158		4.17
29.65	29.67		106	A				
29.70	29.83		686	A		686		18.07
30.25	30.30		264	A		264		6.95
30.91	30.97		317	A		317		8.34
31.09	31.14	EB	264	A		264		6.95
31.30	31.33		158	A		158		4.17
31.35	31.40		264	A		264		6.95
31.51	31.54		158	A		158		4.17
31.58	31.65		370	A		370		9.73
31.68	31.77		475	A		475		12.51
32.44	32.49		264	A		264		6.95
32.61	32.69		422	A		422		11.12
33.53	33.58		264	A		264		6.95
SUB TOTAL			2640			2640		69.50

REMOVE AC DIKE AND PLACE HMA DIKE

LOCATION (PM) FROM	LOCATION (PM) TO	DIRECTION	REMOVE AC DIKE	TYPE OF Exist DIKE	PLACE HMA DIKE (TYPE C)	PLACE HMA DIKE (TYPE E)	PLACE HMA DIKE (TYPE F)	PLACE HMA DIKE HOT MIX ASPHALT (TYPE A)
			LF		LF			TON
19.24	19.25	WB	53	A				
19.43	19.45		106	A		106		2.78
19.48	19.56		422	A		422		11.12
19.67	19.73		317	A		317		8.34
19.77	19.94		898	A		898		23.63
20.78	20.81		158	A		158		4.17
20.82	20.88		317	A		317		8.34
20.95	21.02		370	A				
21.03	21.11		422	A				
21.54	21.59		264	A		264		6.95
21.60	21.64		211	A				
21.67	21.79		634	A				
21.80	21.81		30	A		30		0.79
21.86	21.89		158	A				
21.97	21.98		50	A		50		1.32
22.12	22.18		317	A				
22.30	22.40		528	A				
22.42	22.53		581	A		581		15.29
22.90	22.97		370	A		370		9.73
22.98	23.08		528	A		528		13.90
23.09	23.09		15	A				
23.17	23.23		317	A				
23.43	23.56		686	A				
23.62	23.70		422	A				
23.90	23.94		211	A				
24.17	24.23		317	A				
24.25	24.36		581	A		581		15.29
24.59	24.66		370	A		370		9.73
24.70	24.75		264	A		264		6.95
24.88	24.90		106	A		106		2.78
24.99	25.05		317	A		317		8.34
25.11	25.14		158	A		158		4.17
26.18	26.21		158	A		158		4.17
26.25	26.32		370	A		370		9.73
SUB TOTAL			11026			6363		167.51

SUMMARY OF QUANTITIES

Q-3

MR	9/24/12	REVISED BY / DATE REVISED
MUSTAQUR RAHMAN	RONNIE CHUA	CALCULATED-DESIGNED BY / CHECKED BY
FUNCTIONAL SUPERVISOR	RAMSES SARGISS	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

LAST REVISION 08-29-13 | DATE PLOTTED => 20-DEC-2013 | TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	10	17

REGISTERED CIVIL ENGINEER 10/8/12 DATE

PLANS APPROVAL DATE

Md Mustaqur Rahman No. 75824 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

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.

REMOVE AC DIKE AND PLACE HMA DIKE

LOCATION (PM) FROM	LOCATION (PM) TO	DIRECTION	REMOVE AC DIKE	TYPE OF Exist DIKE	PLACE HMA DIKE (TYPE C)	PLACE HMA DIKE (TYPE E)	PLACE HMA DIKE (TYPE F)	PLACE HMA DIKE HOT MIX ASPHALT (TYPE A)
			LF		LF			TON
31.09	31.14	EB	264	A		264		6.95
31.30	31.33		158	A		158		4.17
31.35	31.40		264	A		264		6.95
31.51	31.54		158	A		158		4.17
31.58	31.65		370	A		370		9.73
31.68	31.77		475	A		475		12.51
32.44	32.49		264	A		264		6.95
32.61	32.69		422	A		422		11.12
33.53	33.58		264	A		264		6.95
SUB TOTAL			2640			2640		69.50

REMOVE AC DIKE AND PLACE HMA DIKE

LOCATION (PM) FROM	LOCATION (PM) TO	DIRECTION	REMOVE AC DIKE	TYPE OF Exist DIKE	PLACE HMA DIKE (TYPE C)	PLACE HMA DIKE (TYPE E)	PLACE HMA DIKE (TYPE F)	PLACE HMA DIKE HOT MIX ASPHALT (TYPE A)
			LF			LF		TON
26.38	26.44	WB	317	A		317		8.34
26.45	26.48		158	A		158		4.17
26.50	26.54		211	A		211		5.56
27.20	27.42		1162	A		1162		30.58
27.74	27.75		53	A		53		1.39
27.86	27.89		158	A		158		4.17
27.90	27.92		106	A		106		2.78
28.08	28.25		898	A		898		23.63
28.60	28.67		370	A		370		9.73
28.80	28.86		317	A		317		8.34
28.95	29.00		264	A		264		6.95
29.06	29.10		211	A				
29.21	29.28		370	A				
29.32	29.36		211	A				
29.37	29.49		634	A		634		16.68
29.60	29.65		264	A		264		6.95
29.82	30.00		950	A		950		25.02
30.20	30.24		220	A				
31.22	31.23		50	A		50		1.32
32.24	32.28		211	A				
32.28	32.32		238	A			238	3.18
32.32	32.35		158	A	158			1.22
32.43	32.47		211	A		211		5.56
32.62	32.70		422	A		422		11.12
33.00	33.09		449	A		449		11.81
33.25	33.29		211	A				
33.66	33.69		185	A				
34.03	34.07		211	A		211		5.56
SUB TOTAL			9220		158	7204	238	194.05

SUMMARY OF QUANTITIES

Q-4

CALCULATED-DESIGNED BY	MUSTAQUR RAHMAN
CHECKED BY	RONNIE CHUA
FUNCTIONAL SUPERVISOR	RAMSES SARGISS
REVISED BY	MR
DATE REVISED	9/24/12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

LAST REVISION 08-29-13 | DATE PLOTTED => 20-DEC-2013 TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	11	17

REGISTERED CIVIL ENGINEER DATE 10/8/12

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Md Mustaqur Rahman No. 75824 Exp. 6-30-14 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.

SHOULDER BACKING

LOCATION (PM) FROM	LOCATION (PM) TO	DIRECTION	LENGTH LF (N)	WIDTH LF (N)	SHOULDER BACKING TON
19.47	19.49	EB	105.60	52.80	3.96
19.53	19.55		105.60	52.80	3.96
19.74	19.75		52.80	26.40	1.98
19.79	19.82		158.40	79.20	5.94
19.99	20.01		105.60	52.80	3.96
20.01	20.18		897.60	448.80	33.66
20.20	20.23		158.40	79.20	5.94
20.42	20.50		422.40	211.20	15.84
20.65	20.72		369.60	184.80	13.86
20.76	20.78		105.60	52.80	3.96
20.92	20.95		158.40	79.20	5.94
21.02	21.04		105.60	52.80	3.96
21.25	21.27		105.60	52.80	3.96
21.33	21.35		105.60	52.80	3.96
21.42	21.47		237.60	118.80	8.91
21.81	21.82		52.80	26.40	1.98
21.85	21.90		264.00	132.00	9.90
21.98	22.02		211.20	105.60	7.92
22.17	22.35		950.40	475.20	35.64
22.65			15.00	7.50	0.56
22.66	22.87		1108.80	554.40	41.58
23.00	23.03		158.40	79.20	5.94
23.44	23.46		105.60	52.80	3.96
23.48	23.50		105.60	52.80	3.96
23.96	24.05		475.20	237.60	17.82
24.14	24.19		264.00	132.00	9.90
24.26	24.35		475.20	237.60	17.82
24.49	24.54		264.00	132.00	9.90
24.59	24.63		211.20	105.60	7.92
24.69	24.71		79.20	39.60	2.97
24.75	24.78		158.40	79.20	5.94
25.03	25.05		105.60	52.80	3.96
25.41			20.00	10.00	0.75
25.69	25.71		105.60	52.80	3.96
SUB TOTAL					312.17

SHOULDER BACKING

LOCATION (PM) FROM	LOCATION (PM) TO	DIRECTION	LENGTH LF (N)	WIDTH LF (N)	SHOULDER BACKING TON
19.98	20.02	WB	211.20	105.60	7.92
20.27	20.31		211.20	105.60	7.92
20.61	20.64		158.40	79.20	5.94
20.67	20.68		52.80	26.40	1.98
20.70	20.73		158.40	79.20	5.94
21.02	21.03		52.80	26.40	1.98
21.26	21.40		739.20	369.60	27.72
21.51	21.53		105.60	52.80	3.96
21.66	21.67		52.80	26.40	1.98
22.18	22.19		52.80	26.40	1.98
22.22	22.23		50.00	25.00	1.88
22.24	22.26		105.60	52.80	3.96
22.66	22.82		844.80	422.40	31.68
23.77	23.80		158.40	79.20	5.94
23.88	23.90		105.60	52.80	3.96
24.07	24.09		105.60	52.80	3.96
24.46	24.52		316.80	158.40	11.88
24.55	24.58		158.40	79.20	5.94
25.00	25.05		264.00	132.00	9.90
25.31	25.34		158.40	79.20	5.94
25.55	25.59		211.20	105.60	7.92
26.46	26.48		105.60	52.80	3.96
27.44	27.73		1531.20	765.60	57.42
27.78	27.87		475.20	237.60	17.82
28.00	28.06		316.80	158.40	11.88
28.41	28.46		264.00	132.00	9.90
28.74	28.75		52.80	26.40	1.98
28.85	28.86		52.80	26.40	1.98
29.21	29.32		580.80	290.40	21.78
29.80	29.82		105.60	52.80	3.96
30.19	30.25		316.80	158.40	11.88
30.32	30.33		52.80	26.40	1.98
30.39	30.43		211.20	105.60	7.92
SUB TOTAL					312.73

SUMMARY OF QUANTITIES

Q-5

MUSTAQUR RAHMAN	MR	CALCULATED-DESIGNED BY	REVISED BY
RONNIE CHUA	9/24/12	CHECKED BY	DATE REVISED
RAMSES SARGISS		FUNCTIONAL SUPERVISOR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

LAST REVISION 08-29-13 | DATE PLOTTED => 20-DEC-2013 | TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	12	17

REGISTERED CIVIL ENGINEER DATE 10/8/12

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Md Mustaqur Rahman No. 75824 Exp. 6-30-14 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.

SHOULDER BACKING

LOCATION (PM) FROM	LOCATION (PM) TO	DIRECTION	LENGTH LF (N)	WIDTH LF (N)	SHOULDER BACKING TON
25.77	25.81	EB	211.20	105.60	7.92
26.02	26.07		264.00	132.00	9.90
26.35	26.39		211.20	105.60	7.92
26.59	26.60		52.80	26.40	1.98
26.69	26.71		105.60	52.80	3.96
26.74	26.80		316.80	158.40	11.88
27.14	27.20		316.80	158.40	11.88
27.21	27.22		52.80	26.40	1.98
27.37	27.44		369.60	184.80	13.86
27.45	27.50		264.00	132.00	9.90
27.52	27.63		580.80	290.40	21.78
27.77	27.85		422.40	211.20	15.84
28.02	28.13		559.68	279.84	20.99
28.19	28.22		158.40	79.20	5.94
28.61	28.63		105.60	52.80	3.96
29.07	29.09		105.60	52.80	3.96
29.27	29.30		158.40	79.20	5.94
29.39	29.41		105.60	52.80	3.96
29.49	29.51		105.60	52.80	3.96
30.55	30.62		369.60	184.80	13.86
30.70	30.77		369.60	184.80	13.86
30.97	31.01		211.20	105.60	7.92
31.26	31.30		211.20	105.60	7.92
31.40	31.44		211.20	105.60	7.92
32.12	32.13		52.80	26.40	1.98
32.23	32.26		158.40	79.20	5.94
32.32	32.36		211.20	105.60	7.92
32.60	32.61		50.00	25.00	1.88
32.69	32.70		52.80	26.40	1.98
32.86	32.91		264.00	132.00	9.90
33.25	33.27		105.60	52.80	3.96
33.58			30.00	15.00	1.13
SUB TOTAL					253.67

SHOULDER BACKING

LOCATION (PM) FROM	LOCATION (PM) TO	DIRECTION	LENGTH LF (N)	WIDTH LF (N)	SHOULDER BACKING TON
30.68	30.71	WB	158.40	79.20	5.94
31.29	31.30		52.80	26.40	1.98
32.16	32.18		105.60	52.80	3.96
32.36	32.37		52.80	26.40	1.98
32.52	32.54		105.60	52.80	3.96
32.60	32.62		105.60	52.80	3.96
33.09	33.10		52.80	26.40	1.98
33.17	33.19		105.60	52.80	3.96
33.34	33.40		316.80	158.40	11.88
33.45	33.48		158.40	79.20	5.94
33.57	33.58		52.80	26.40	1.98
33.64	33.65		52.80	26.40	1.98
33.73	33.81		422.40	211.20	15.84
33.88	33.93		264.00	132.00	9.90
34.02	34.03		50.00	25.00	1.88
SUB TOTAL					77.12

SUMMARY OF QUANTITIES

SHEET TOTAL	COLD PLANE AC PAVEMENT (0.35' Max)	COLD PLANE AC PAVEMENT CONFORM LOCATIONS	HOT MIX ASPHALT (TYPE A)	TACK COAT	RUBBERIZED HOT MIX ASPHALT (BONDED WEARING COURSE-GAP GRADED)	ASPHALTIC EMULSION MEMBRANE (BWC)	SHOULDER BACKING	REMOVE AC DIKE	PLACE HMA DIKE (TYPE C)	PLACE HMA DIKE (TYPE E)	PLACE HMA DIKE (TYPE F)	CRACK TREATMENT
	SQYD		TON					LF				LNMI
SUB-TOTAL SHEET Q-1 EB	4573		1080.45	1.95								
SUB-TOTAL SHEET Q-1 WB	4727		1116.68	2.01								
SUB-TOTAL SHEET Q-2	4017	700	1103.40	1.72	12504	252.25						6
SUB-TOTAL SHEET Q-3 EB			220.86					13036		8390		
SUB-TOTAL SHEET Q-3 WB			167.51					11026		6363		
SUB-TOTAL SHEET Q-4 EB			69.50					2640		2640		
SUB-TOTAL SHEET Q-4 WB			194.05					9220	158	7204	238	
SUB-TOTAL SHEET Q-5 EB & WB							624.90					
SUB-TOTAL SHEET Q-6 EB & WB							330.79					
TOTAL	14017		3952.45	5.68	12504	252.25	955.69	35922	158	24597	238	6

SUMMARY OF QUANTITIES

Q-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: RAMSES SARGISS
CALCULATED-DESIGNED BY / CHECKED BY
REVISED BY: MR — DATE REVISED: 9/24/12
MUSTAQUR RAHMAN — RONNIE CHUA

LAST REVISION 08-29-13 | DATE PLOTTED => 20-DEC-2013 | TIME PLOTTED => 08:52

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
04	Nap	128	19.1/34.3	13	17

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

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TO ACCOMPANY PLANS DATED _____

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

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	14	17

REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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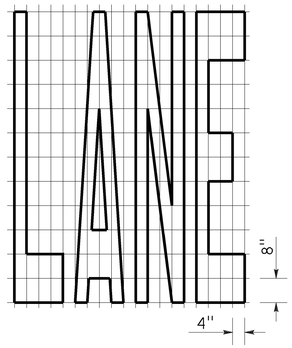
TO ACCOMPANY PLANS DATED _____



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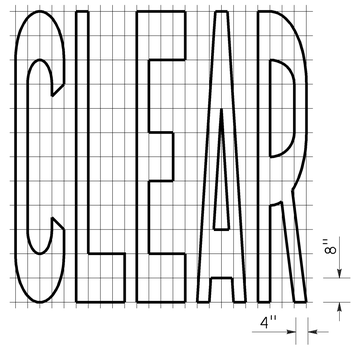

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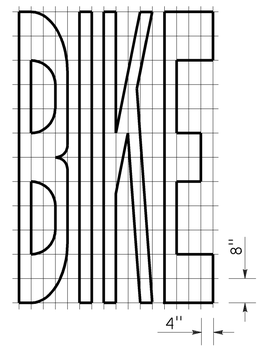

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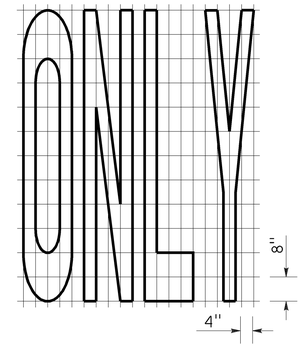

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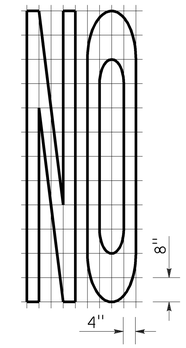

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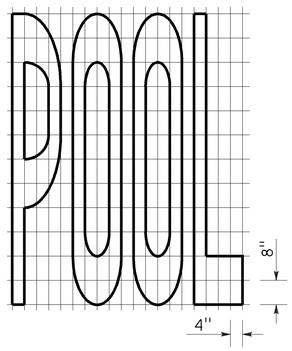

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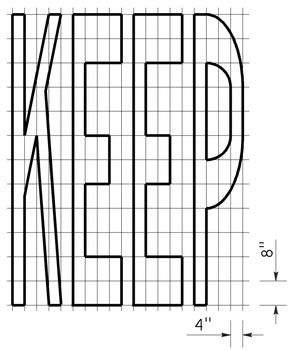

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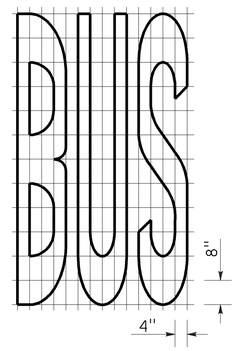

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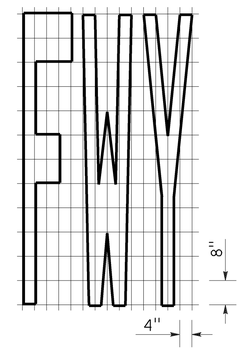

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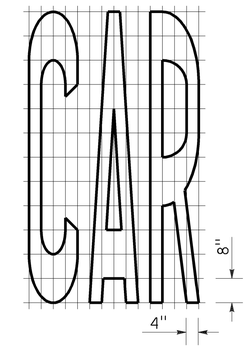
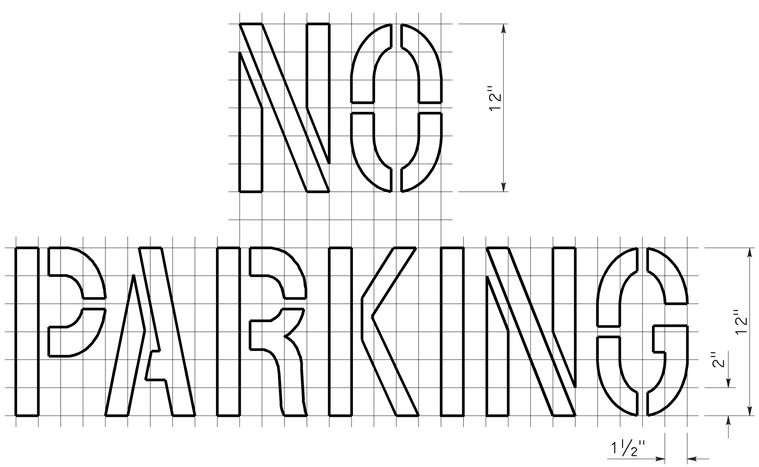
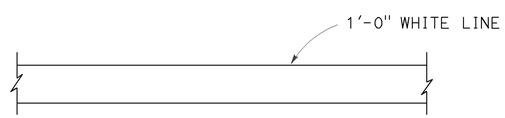


A=17 ft^2

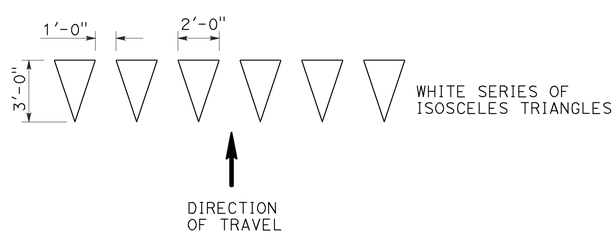
WORD MARKINGS			
ITEM	ft^2	ITEM	ft^2
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft^2
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	15	17

REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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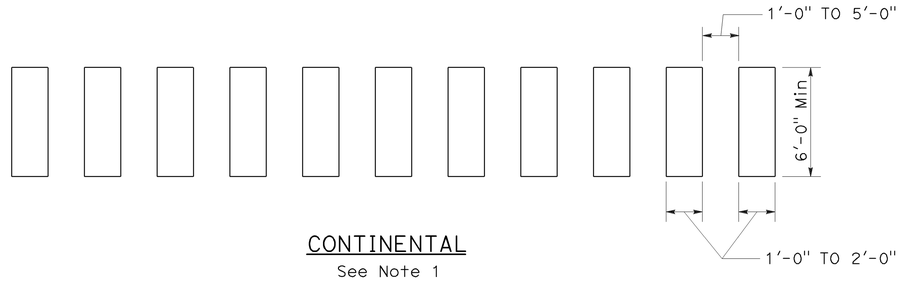
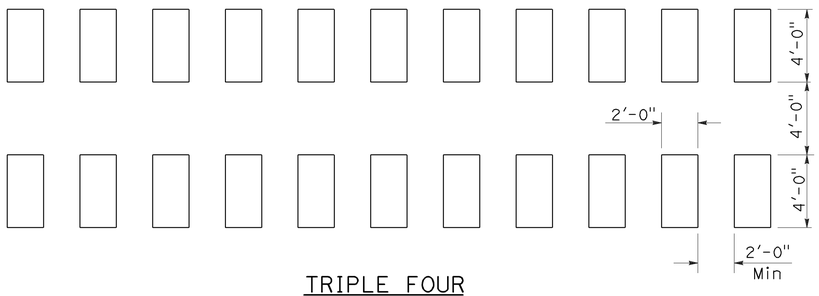
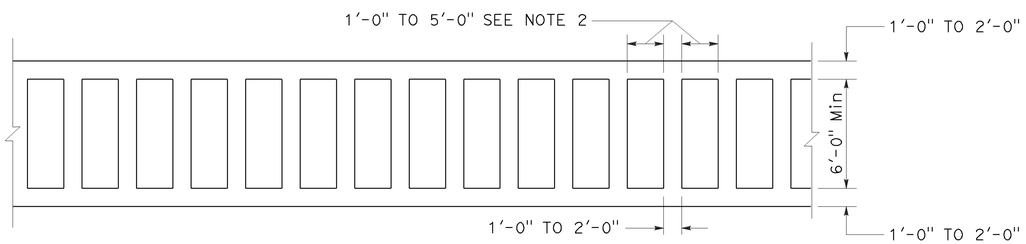
TO ACCOMPANY PLANS DATED _____



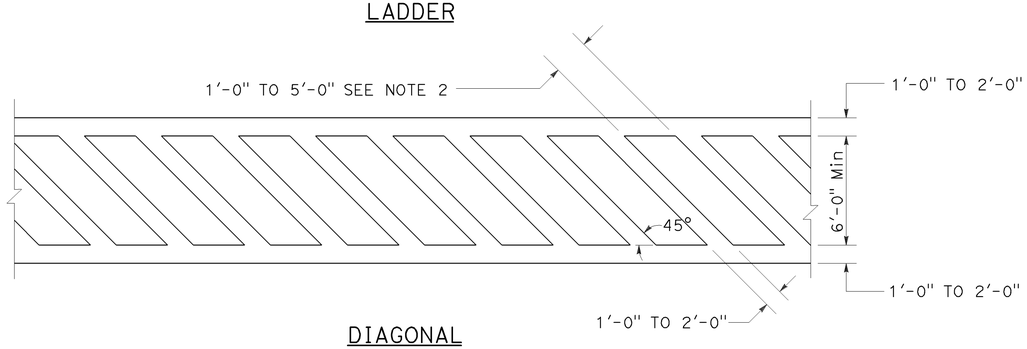
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER

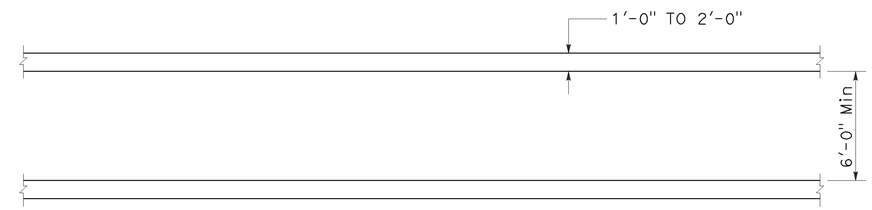


DIAGONAL

HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS CROSSWALKS

NO SCALE

RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24F

2010 REVISED STANDARD PLAN RSP A24F

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	16	17

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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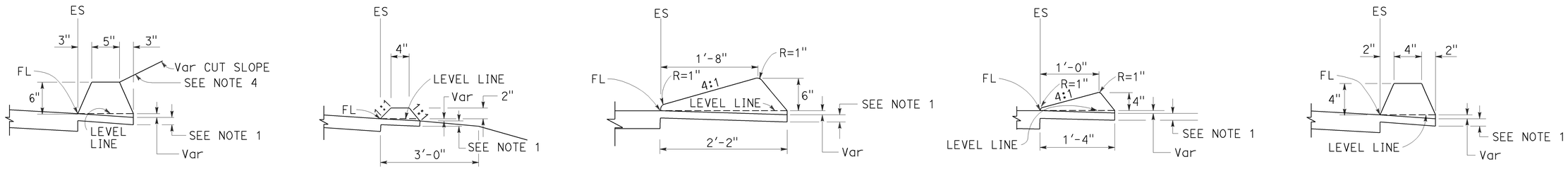
TO ACCOMPANY PLANS DATED _____

2010 REVISED STANDARD PLAN RSP A87B



TYPE A
See Note 3

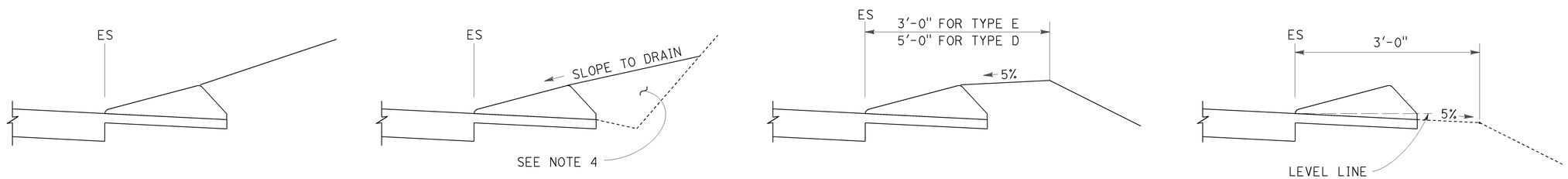
TYPE C

TYPE D

TYPE E

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

6-27-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	19.1/34.3	17	17

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED _____

NOTES:

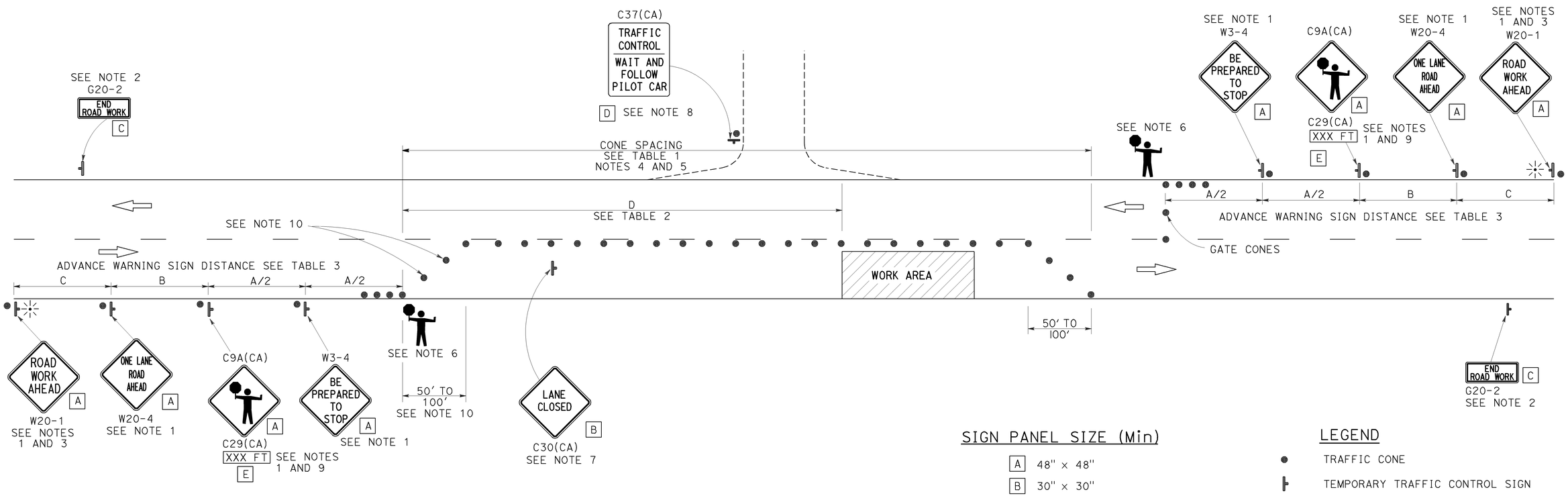
See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (Min)

A	48" × 48"
B	30" × 30"
C	36" × 18"
D	36" × 42"
E	20" × 7"

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

NOTES:

1. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
7. Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
8. When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
9. An optional C29(CA) sign may be placed below the C9A(CA) sign.
10. Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

4-2-13