Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	1.7/6.7	1	13

ACNH-P099(543)E

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN SAN JOAQUIN COUNTY
IN AND NEAR RIPON
FROM WILMA AVENUE OVERCROSSING
TO ROUTE 99/120 SEPARATION

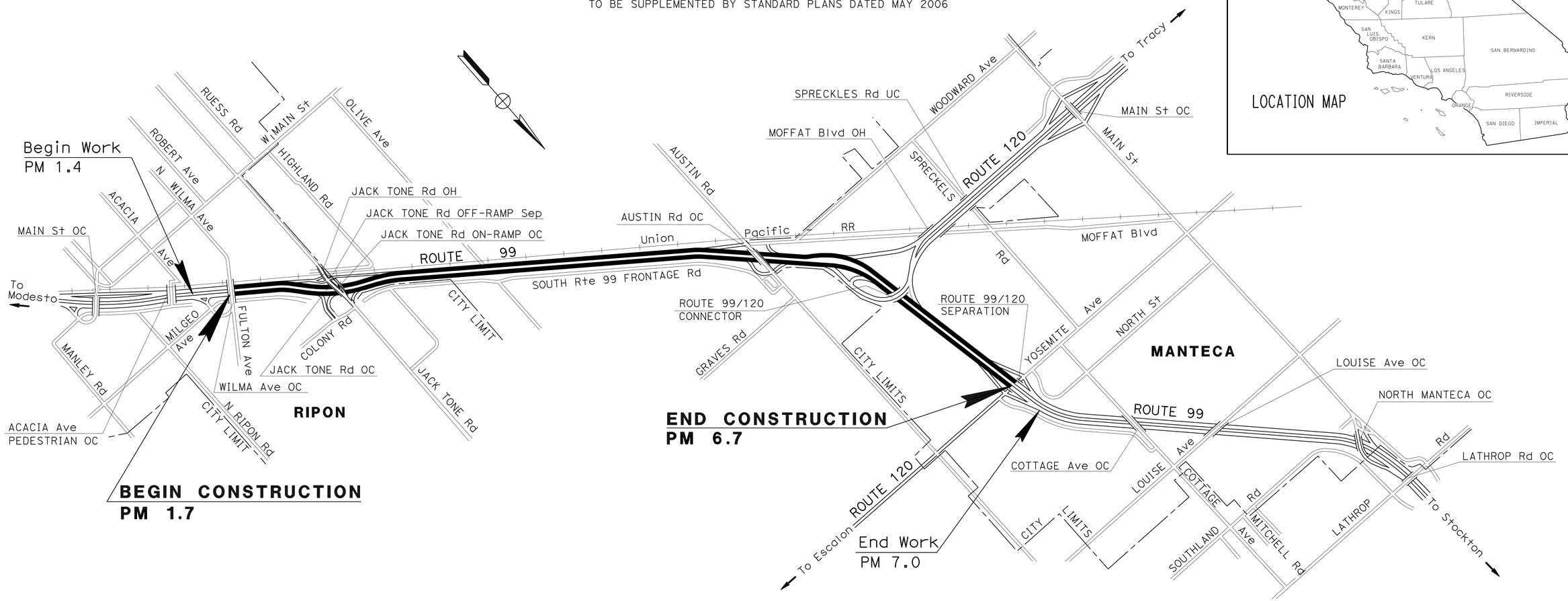
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-4	CONSTRUCTION DETAILS
5	CONSTRUCTION AREA SIGNS
6-7	TRAFFIC HANDLING PLANS
8-9	SUMMARY OF QUANTITIES
10	ELECTRICAL PLAN
11-13	REVISED STANDARD PLANS

THIS STANDARD PLANS LIST APPLICABLE TO THIS CONNTRACT 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: ALVIN MANGINDIN

DESIGN ENGINEER: ALVIN MANGINDIN

12/21/10
PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

December 27, 2010
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOSE A. ALICEA II — No. 64817 — Exp. 06/30/11 — CIVIL — STATE OF CALIFORNIA

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

CONTRACT No.	10-0U8604
PROJECT ID	1000020005

LAST REVISION 00-00-00 — DATE PLOTTED => 24-JAN-2011 — TIME PLOTTED => 11:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	1.7/6.7	2	13

REGISTERED CIVIL ENGINEER 12/21/10 DATE

12/27/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/11 CIVIL STATE OF CALIFORNIA

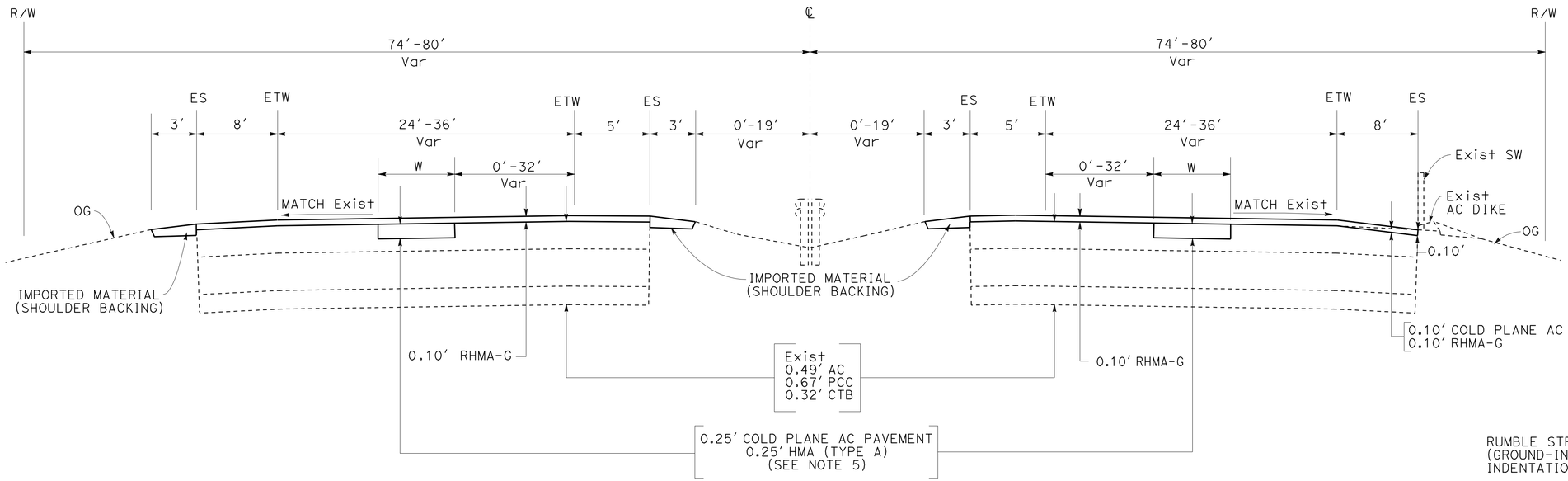
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

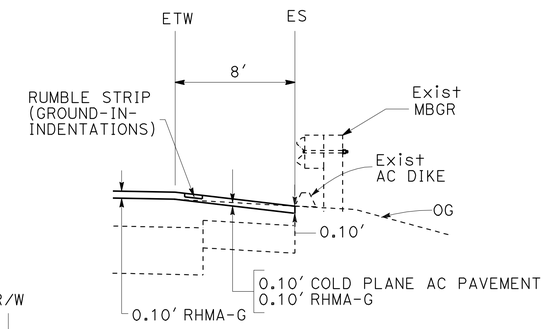
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR ACCURATE RIGHT OF WAY, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
5. FOR COLD PLANE AC PAVEMENT DIMENSIONS AND LOCATIONS, SEE SUMMARY OF QUANTITIES SHEET.

ABBREVIATION

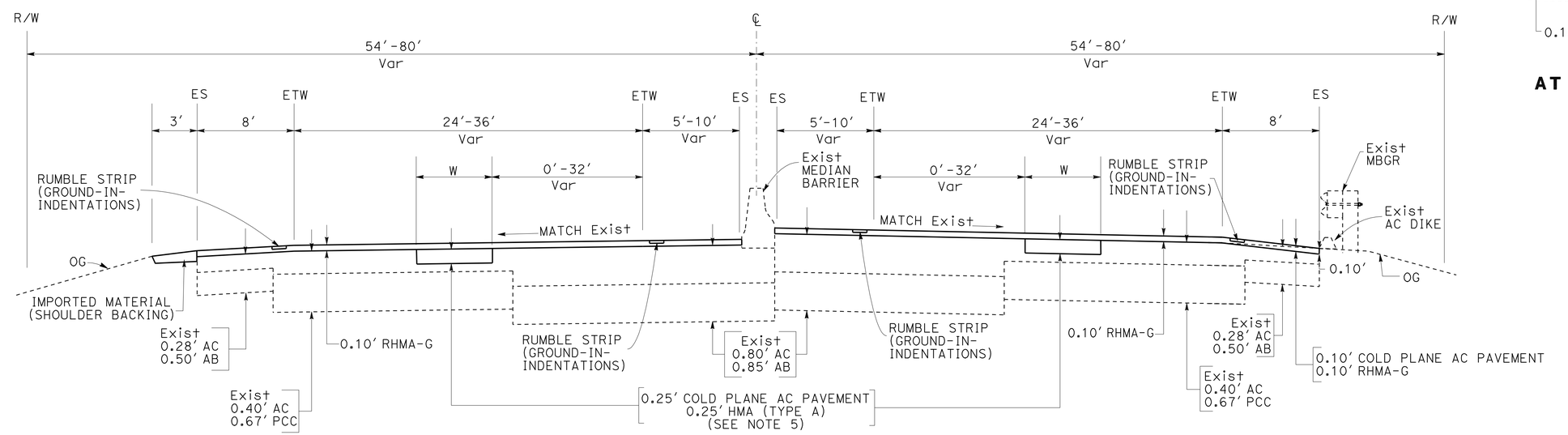
RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)



PM 5.82/6.70



CONFORM TAPER AT MBGR AND AC DIKE



PM 1.70/5.82

ROUTE 99

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JHOANNA OAMILDA
CHECKED BY: JOSE A. ALICEA II
REVISED BY: JO
DATE REVISED: 12/20/10

LAST REVISION 00-00-00
DATE PLOTTED => 24-JAN-2011
TIME PLOTTED => 11:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	1.7/6.7	3	13

REGISTERED CIVIL ENGINEER 12/21/10 DATE

12/27/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

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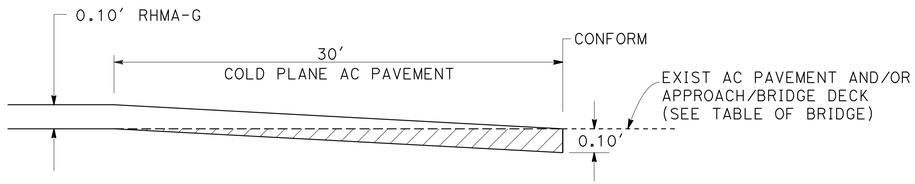
LEGEND

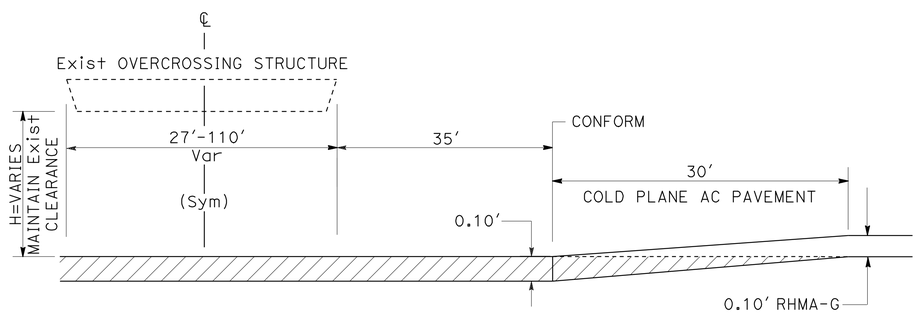
- RHMA-G
- COLD PLANE AC PAVEMENT RHMA-G
- HMA (TYPE A)

ABBREVIATION

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

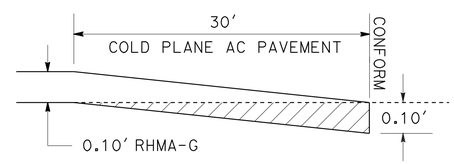


CONFORM TAPER FOR APPROACH/DEPARTURE AT BRIDGE DECK AND EXISTING PAVEMENT



PM 1.71 - WILMA AVENUE OVERCROSSING
PM 2.34 - JACKTONE ROAD OVERCROSSING
PM 2.36 - JACKTONE/SB 99 ON-RAMP SEPARATION
PM 4.89 - AUSTIN ROAD OVERCROSSING
PM 5.82 - ROUTE 99/120 CONNECTOR

LONGITUDINAL TRANSITION TAPER AT OVERCROSSING STRUCTURE



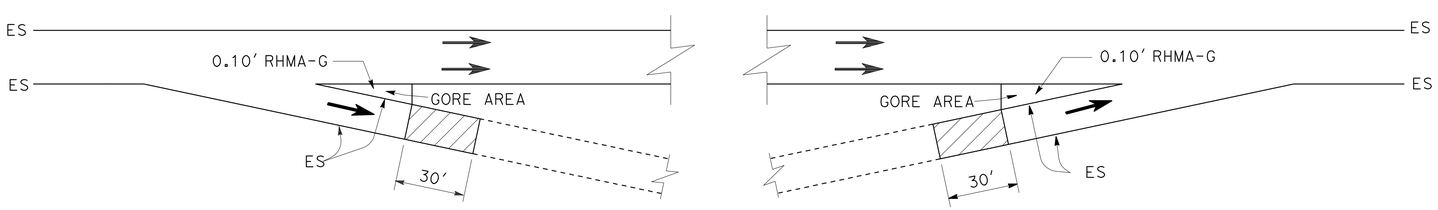
CONFORM TAPERS TO RAMPS

TABLE OF BRIDGE

PM	BRIDGE NAME	BRIDGE No.
6.65	ROUTE 9/120 SEPARATION	29-0125

RAMP LOCATIONS

LOCATION (ROUTE 99)		
Dir	PM	DESCRIPTION
NORTHBOUND	2.2	COLONY Rd OFF-RAMP
	2.3	COLONY Rd ON-RAMP
	2.5	JACKTONE Rd ON-RAMP
	4.8	AUSTIN Rd OFF-RAMP
	5.0	AUSTIN Rd ON-RAMP
	5.4	NB OFF-RAMP TO WB Rte 120
	5.6	NB ON-RAMP FROM WB Rte 120
	6.5	NB OFF-RAMP TO EB Rte 120
SOUTHBOUND	2.2	JACKTONE Rd ON-RAMP
	2.6	JACKTONE Rd OFF-RAMP
	4.5	AUSTIN Rd ON-RAMP
	5.0	AUSTIN Rd OFF-RAMP
	5.6	SB ON-RAMP FROM WB Rte 120
	6.2	SB OFF-RAMP TO WB Rte 120
	6.5	SB ON-RAMP FROM EB Rte 120



PAVE GORE AREA TYPICAL ON/OFF-RAMPS

CONSTRUCTION DETAILS
NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JHOANNA OAMILDA
CHECKED BY: JOSE A. ALICEA II
REVISED BY: JO
DATE REVISED: 12/20/10

LAST REVISION 00-00-00 | DATE PLOTTED => 24-JAN-2011 | TIME PLOTTED => 11:16

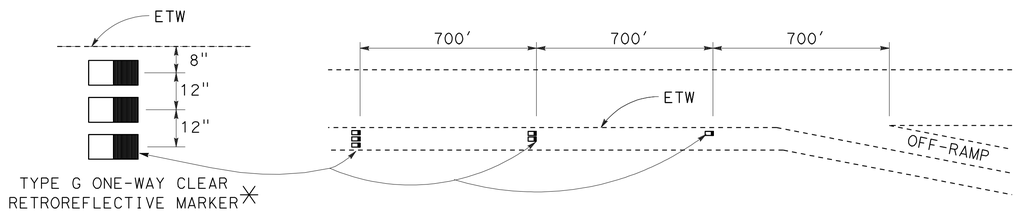
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	1.7/6.7	4	13

REGISTERED CIVIL ENGINEER 12/21/10 DATE

12/27/10
PLANS APPROVAL DATE

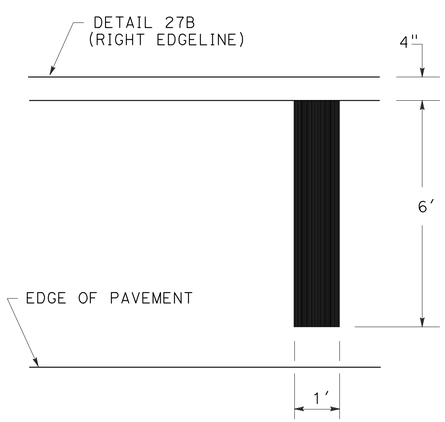
REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

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



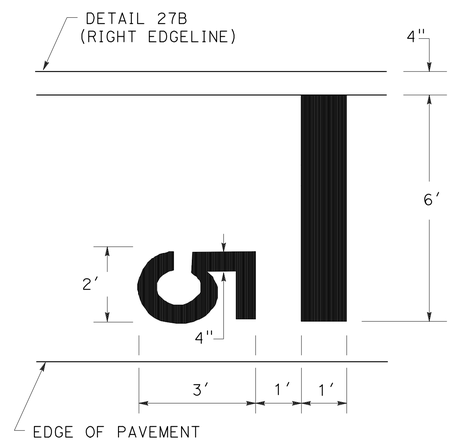
ADVANCE EXIT RAMP MARKER DETAIL

✳ USE 3, 2, 1, COMBINATION AS SHOWN



AREA = 6 SQFT

Rte 99 NB/SB-PM 2, 3, 4, 6

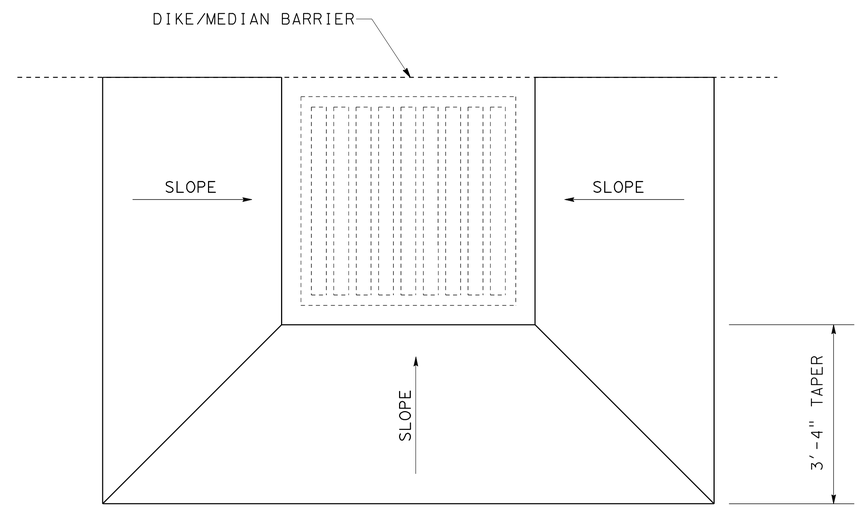


AREA = 6 SQFT
AREA = 6.89 SQFT

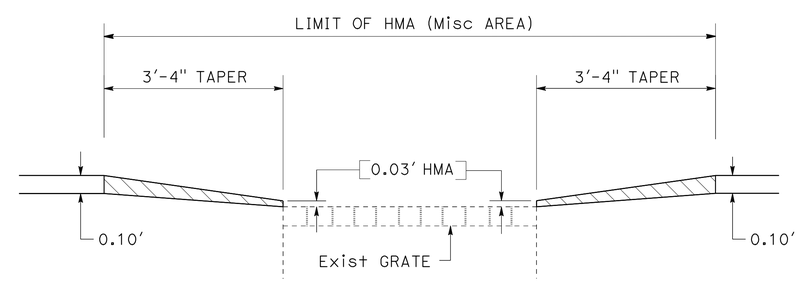
Rte 99 NB/SB-PM 5

AIRCRAFT PATROL THERMOPLASTIC PAVEMENT MARKING DETAILS

NOTE: ALL MARKINGS FOR THIS DETAIL SHALL BE WHITE.



PLAN VIEW



ELEVATION

DRAINAGE INLET AC APRON

(SEE SUMMARY OF QUANTITIES FOR DRAINAGE INLET LOCATIONS)

CONSTRUCTION DETAILS

NO SCALE

C-2

REVISED BY	DATE REVISED
JO	12/20/10

JHOANNA OAMILDA	JOSE A. ALICEA II
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
MAINTENANCE

LAST REVISION 00-00-00 | DATE PLOTTED => 24-JAN-2011 | TIME PLOTTED => 11:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	1.7/6.7	5	13

REGISTERED CIVIL ENGINEER DATE 12/21/10

12/27/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

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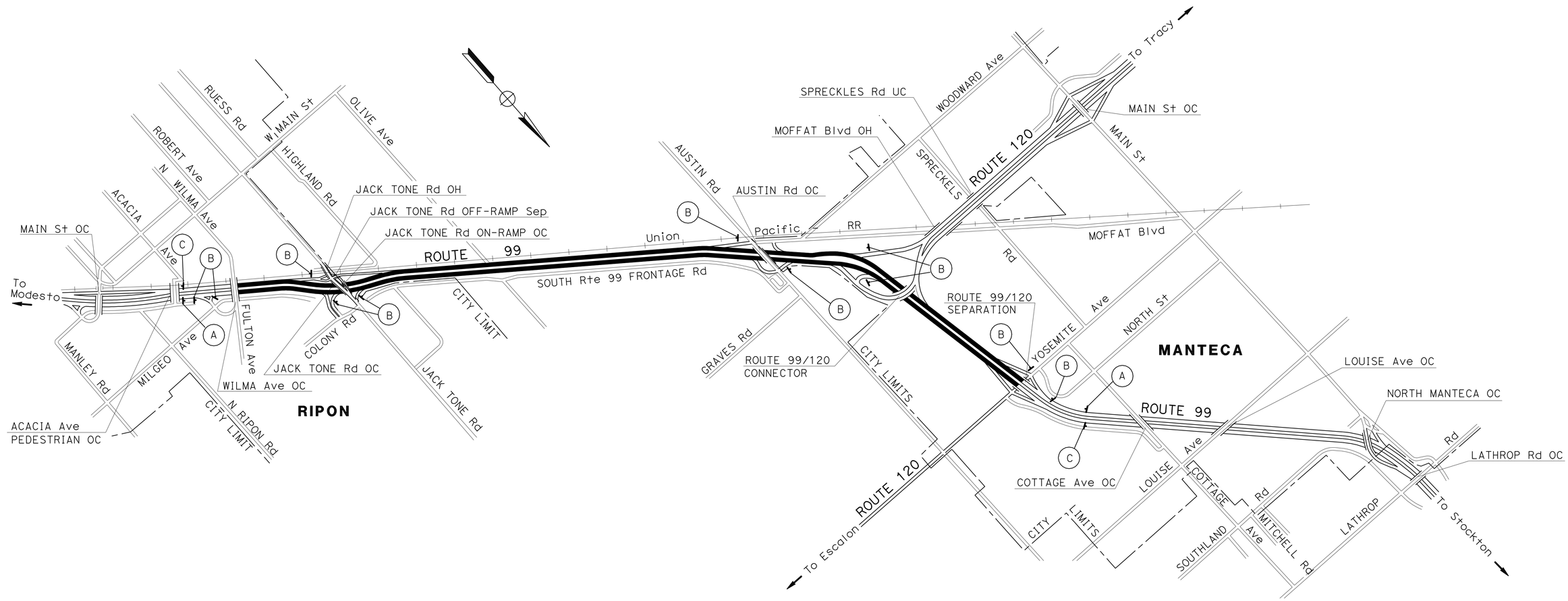
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
A	G20-1	90" x 48"	2 - 6" x 6"	2	ROAD CONSTRUCTION NEXT 5 MILES
B	W20-1	48" x 48"	1 - 6" x 6"	11	ROAD WORK AHEAD
C	G20-2	48" x 24"	1 - 4" x 6"	2	END ROAD WORK

NOTES: 1. EXACT SIGN LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SEE TRAFFIC HANDLING PLAN FOR ADDITIONAL CONSTRUCTION AREA SIGNS.



THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN

CALCULATED-DESIGNED BY: JHOANNA OAMILDA
CHECKED BY: JOSE A. ALICEA II

REVISED BY: JO
DATE REVISED: 12/20/10

LAST REVISION 00-00-00
DATE PLOTTED => 24-JAN-2011
TIME PLOTTED => 11:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	1.7/6.7	6	13

REGISTERED CIVIL ENGINEER DATE 12/21/10

PLANS APPROVAL DATE 12/27/10

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

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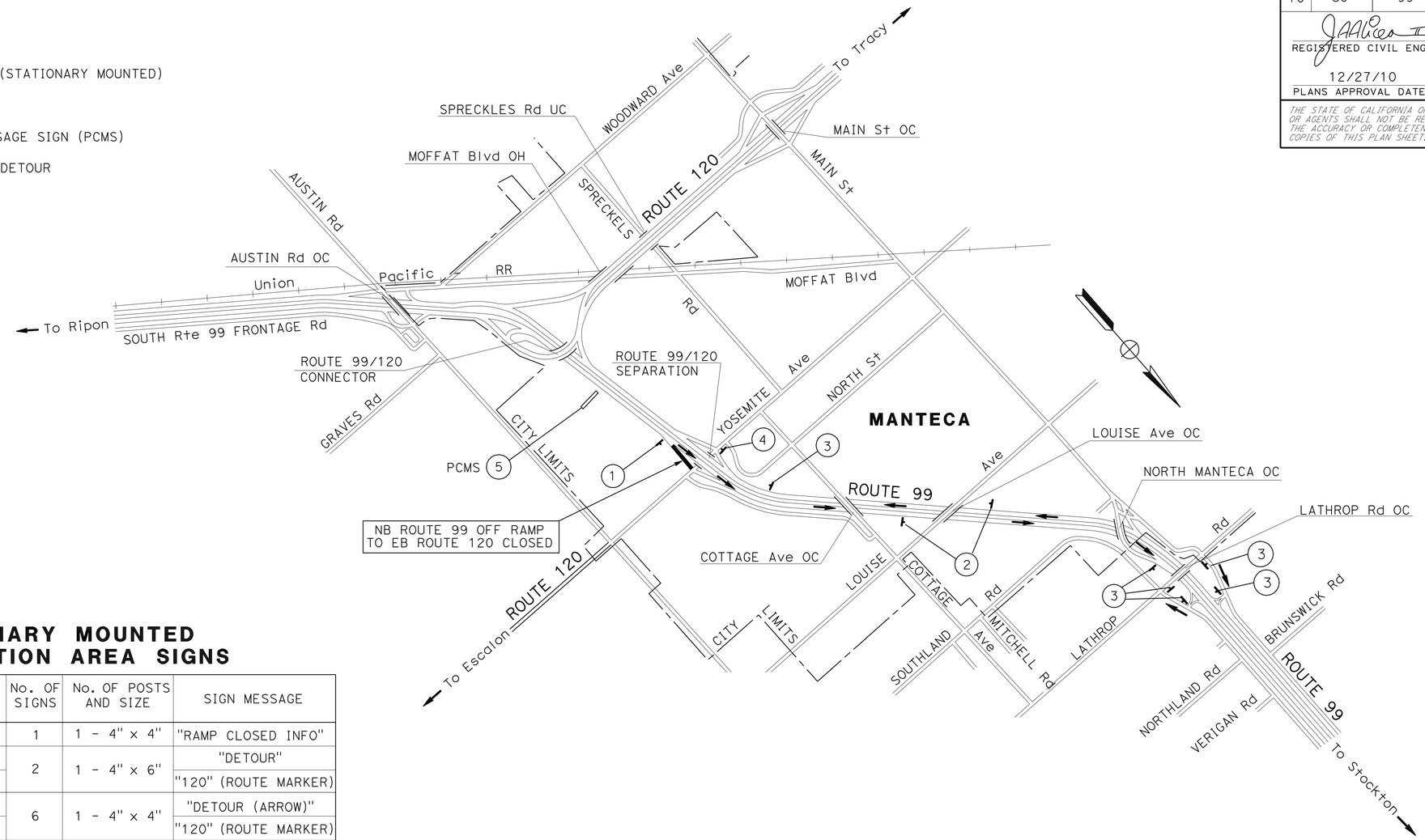
LEGEND

- SIGN No.
- CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- CONSTRUCTION AT TIME OF DETOUR



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	No. OF SIGNS	No. OF POSTS AND SIZE	SIGN MESSAGE
1*	SC6-4(CA)	36" x 36"	1	1 - 4" x 4"	"RAMP CLOSED INFO"
2	M4-8	24" x 12"	2	1 - 4" x 6"	"DETOUR"
	G28-2(CA)	18" x 18"			"120" (ROUTE MARKER)
3	M4-10(R†)	48" x 18"	6	1 - 4" x 4"	"DETOUR (ARROW)"
	G28-2(CA)	18" x 18"			"120" (ROUTE MARKER)
4	M4-8a	24" x 12"	1	1 - 4" x 4"	"END DETOUR"

NOTES:

1. EXACT CONSTRUCTION AREA SIGN LOCATION TO BE DETERMINED BY ENGINEER.
2. WHEN DETOUR IS NOT IN USE, COVER ALL CONSTRUCTION AREA SIGNS (TRAFFIC HANDLING) EXCEPT SC6-4.
3. COVER ALL CONFLICTING ROADSIDE SIGNS.
4. *ADVANCED SPECIAL MESSAGE ADVISORY SIGN
5. DURING THE ROUTE 120 CLOSURE, THE PCMS MESSAGE AT (5) SHOULD READ.

ROUTE 120 OFF RAMP CLOSED	→	USE LATHROP RD EXIT
1ST FRAME		2ND FRAME

TRAFFIC DETOUR PLAN

NB ROUTE 99 OFF RAMP TO EB ROUTE 120 CLOSED
CONTINUE NB ROUTE 99
TAKE LATHROP ROAD OFF RAMP
TURN RIGHT ON ROUTE 99 FRONTAGE ROAD
TURN RIGHT ON LATHROP ROAD
TURN RIGHT ON ROUTE 99 FRONTAGE ROAD
TAKE SB ROUTE 99 ON RAMP AT FRONTAGE ROAD TO SB ROUTE 99

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

TRAFFIC HANDLING PLAN
DETOUR LAYOUT
(NB ROUTE 99 OFF-RAMP TO EB ROUTE 120 CLOSED)

NO SCALE

TH-1

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED	FUNCTIONAL SUPERVISOR
JHOANNA OAMILDA	JOSE A. ALICEA II	JO	12/20/10	ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

LAST REVISION 00-00-00 | DATE PLOTTED => 24-JAN-2011 | TIME PLOTTED => 11:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	1.7/6.7	7	13

REGISTERED CIVIL ENGINEER DATE 12/21/10

12/27/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

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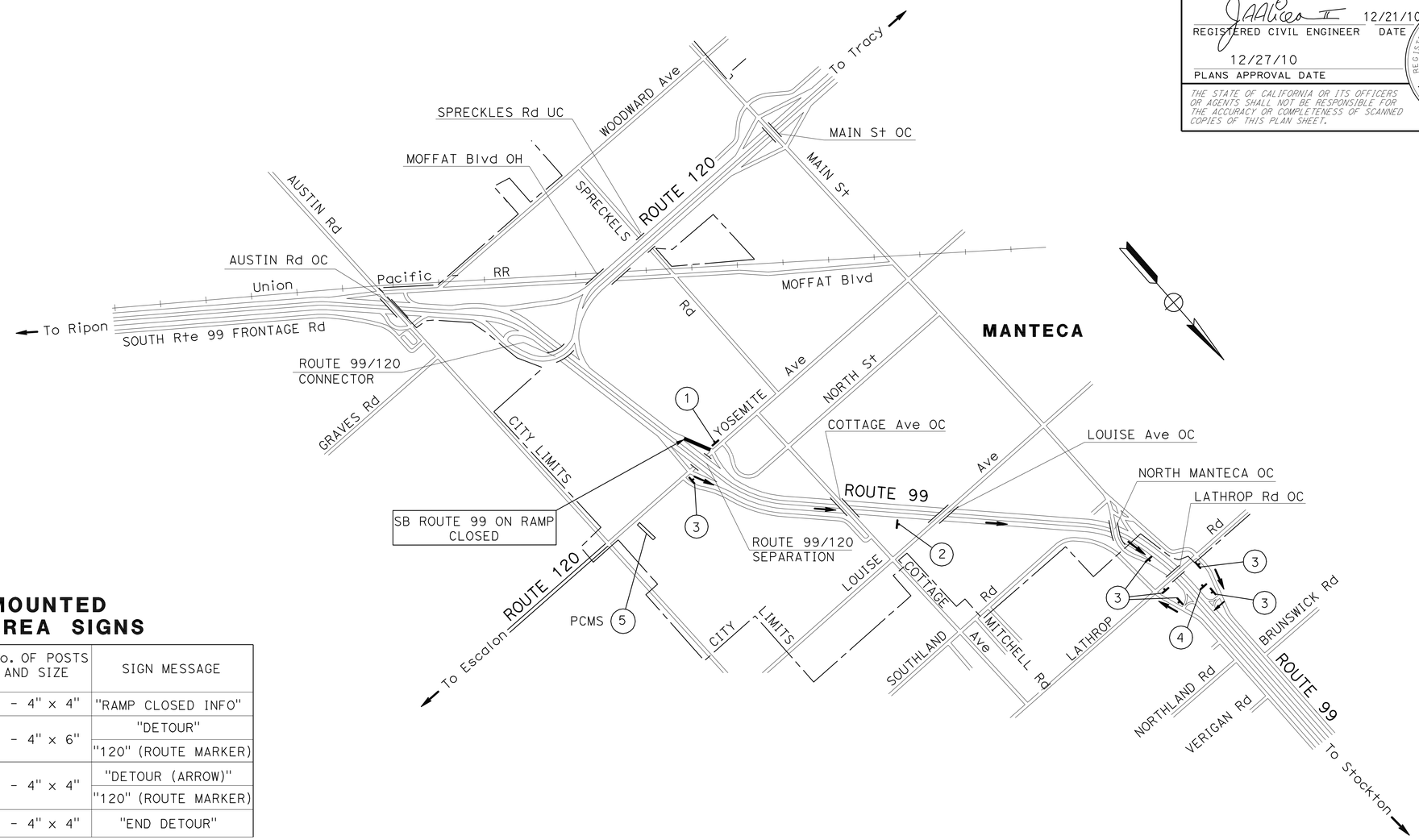

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	No. OF SIGNS	No. OF POSTS AND SIZE	SIGN MESSAGE
1*	SC6-4(CA)	36" x 36"	1	1 - 4" x 4"	"RAMP CLOSED INFO"
2	M4-8	24" x 12"	1	1 - 4" x 6"	"DETOUR"
	G28-2(CA)	18" x 18"			"120" (ROUTE MARKER)
3	M4-10(R†)	48" x 18"	6	1 - 4" x 4"	"DETOUR (ARROW)"
	G28-2(CA)	18" x 18"			"120" (ROUTE MARKER)
4	M4-8a	24" x 12"	1	1 - 4" x 4"	"END DETOUR"

NOTES:
1. EXACT CONSTRUCTION AREA SIGN LOCATIONS TO BE DETERMINED BY ENGINEER.
2. WHEN DETOUR IS NOT IN USE, COVER ALL CONSTRUCTION AREA SIGNS (TRAFFIC HANDLING) EXCEPT SC6-4.
3. COVER ALL CONFLICTING ROADSIDE SIGNS.
4. *ADVANCED SPECIAL MESSAGE ADVISORY SIGN
5. DURING THE SB ROUTE 99 ON RAMP CLOSURE, THE PCMS MESSAGE AT (5) SHOULD READ.

SB 99 ON RAMP CLOSED	→	USE NB 99 ON RAMP
1ST FRAME		2ND FRAME

TRAFFIC DETOUR PLAN

SB ROUTE 99 ON RAMP CLOSED
TURN RIGHT ON NB ON RAMP ROUTE 99
CONTINUE NB ROUTE 99
TAKE LATHROP ROAD OFF RAMP
TURN RIGHT ON ROUTE 99 FRONTAGE ROAD
TURN RIGHT ON LATHROP ROAD
TURN RIGHT ON ROUTE 99 FRONTAGE ROAD
TAKE SB ROUTE 99 ON RAMP AT FRONTAGE ROAD TO SB ROUTE 99

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

TRAFFIC HANDLING PLAN
DETOUR LAYOUT
(SB ROUTE 99 ON RAMP CLOSED)

NO SCALE

TH-2

CALCULATED-DESIGNED BY	JHOANNA OAMILDA	REVISED BY	JO
CHECKED BY	JOSE A. ALICEA II	DATE REVISED	12/20/10

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

LAST REVISION 00-00-00 | DATE PLOTTED => 24-JAN-2011 | TIME PLOTTED => 11:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	1.7/6.7	8	13

REGISTERED CIVIL ENGINEER 12/21/10 DATE

12/27/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

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NOTES:

1. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
2. * - TOTAL INCLUDED IN ROADWAY ITEMS TABLE

ABBREVIATIONS

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

DIGOUTS

LOCATION		LANE No.	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	TACK COAT	HMA (TYPE A)
	PM / PM				SQYD	TON	
NB	1.70/1.73	3	200′	4′	89	0.1	15
NB	2.32/2.42	2	500′	4′	223	0.2	38
NB	2.32/2.42	3	500′	4′	223	0.2	38
NB	2.37/2.66	3	1500′	4′	667	0.7	113
NB	4.80/5.80	2	5280′	4′	2347	2.4	396
NB	5.03/5.32	2	1500′	4′	667	0.7	113
NB	5.59/5.69	3	500′	4′	223	0.2	38
NB	5.59/5.82	1	1200′	4′	534	0.6	90
SB	5.94/5.37	2	3000′	4′	2347	2.4	396
SB	5.94/5.37	1	3000′	4′	1334	1.4	225
SB	5.80/4.80	2	5280′	4′	1334	1.4	225
SB	4.94/4.83	3	600′	4′	267	0.3	45
SB	4.89/4.50	3	2000′	4′	889	0.9	150
SB	3.37/3.17	2	1000′	4′	445	0.5	75
SB	3.37/2.23	3	6000′	4′	2667	2.8	450
				SUBTOTAL	14,256*	14.8*	2407*

CONFORM TAPERS AT METAL BEAM GUARD RAILING

PM / PM	LOCATION	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	RHMA-G
				SQYD	TON
4.88/4.89	NB Rt SHOULDER	69′	8′	62	4
6.34/6.51	NB Rt SHOULDER	898′	8′	799	53
1.93/2.02	SB Rt SHOULDER	476′	8′	424	28
4.42/4.55	SB Rt SHOULDER	687′	8′	611	41
4.90/4.91	SB Rt SHOULDER	63′	8′	56	4
6.22/6.23	SB Rt SHOULDER	63′	8′	56	4
			TOTAL	2008*	134*

CONFORM TAPERS AT AC DIKE

PM / PM	LOCATION	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	RHMA-G
				SQYD	TON
2.30/2.31	NB Rt SHOULDER	59′	8′	53	3
4.76/4.79	NB Rt SHOULDER	159′	8′	142	9
5.05/5.14	NB Rt SHOULDER	476′	8′	424	28
5.81/6.34	NB Rt SHOULDER	2804′	8′	2493	166
2.32/2.34	SB Rt SHOULDER	106′	8′	95	6
3.20/3.41	SB Rt SHOULDER	1141′	8′	1015	68
6.35/6.53	SB Rt SHOULDER	951′	8′	846	56
			TOTAL	5068*	336*

DRAINAGE INLETS

Dir	PM	SIDE	PLACE HMA (MISC AREA)	HMA (TYPE A)
			SQFT	TON
NB	2.30	LEFT	47.15	0.11
NB	2.31	LEFT	47.15	0.11
NB	2.32	LEFT	47.15	0.11
NB	2.42	LEFT	47.15	0.11
NB	2.43	LEFT	47.15	0.11
NB	4.33	LEFT	47.15	0.11
SB	1.97	LEFT	47.15	0.11
SB	1.98	LEFT	47.15	0.11
SB	2.01	LEFT	47.15	0.11
SB	2.04	LEFT	47.15	0.11
SB	2.07	LEFT	47.15	0.11
SB	2.44	LEFT	47.15	0.11
SB	3.93	LEFT	47.15	0.11
SB	3.96	LEFT	47.15	0.11
SB	4.10	LEFT	47.15	0.11
SB	4.12	LEFT	47.15	0.11
SB	4.14	LEFT	47.15	0.11
SB	4.20	LEFT	47.15	0.11
SB	4.27	LEFT	47.15	0.11
SB	4.36	LEFT	47.15	0.11
SB	4.45	LEFT	47.15	0.11
SB	4.52	LEFT	47.15	0.11
SB	4.54	LEFT	47.15	0.11
SB	6.35	RIGHT	47.15	0.11
SB	6.37	RIGHT	47.15	0.11
SB	6.39	RIGHT	47.15	0.11
SB	6.41	RIGHT	47.15	0.11
SB	6.42	RIGHT	47.15	0.11
SB	6.44	RIGHT	47.15	0.11
SB	6.46	RIGHT	47.15	0.11
SB	6.48	RIGHT	47.15	0.11
SB	6.50	RIGHT	47.15	0.11
SB	6.51	RIGHT	47.15	0.11
SB	6.53	RIGHT	47.15	0.11
		TOTAL	1603	4.0*

CONFORM TAPERS

LOCATION (ROUTE 99)			LENGTH (N)	WIDTH (N)	COLD PLANE AC PAVEMEMT	RHMA-G
Dir	PM	DESCRIPTION			SQYD	TON
NORTHBOUND	1.7	WILMA Ave OC (BEGIN CONSTRUCTION)	169′	54′	1014	68
	2.2	COLONY Rd OFF-RAMP	30′	16′	54	4
	2.3	COLONY Rd ON-RAMP	30′	26′	87	6
	2.4	JACK TONE Rd OC	207′	54′	1242	83
	2.4	JACK TONE Rd SB ON RAMP SEPARATION	157′	54′	942	63
	2.5	JACK TONE Rd ON-RAMP	30′	16′	54	4
	4.8	AUSTIN Rd OFF-RAMP	30′	16′	54	4
	5.0	AUSTIN Rd OC	163′	54′	978	65
	5.0	AUSTIN Rd ON-RAMP	30′	16′	54	4
	5.4	NB OFF-RAMP TO WB Rte 120	30′	20′	67	4
	5.6	NB ON-RAMP FROM WB Rte 120	30′	16′	54	4
	5.8	Rte 99/120 CONNECTOR	174′	54′	1044	70
	6.5	NB OFF RAMP TO EB Rte 120	30′	16′	54	4
	6.5	Rte 99/120 SEPARATION (END CONSTRUCTION)	30′	49′	164	11
SOUTHBOUND	1.7	WILMA Ave OC (BEGIN CONSTRUCTION)	169′	54′	1014	68
	2.2	JACK TONE Rd ON-RAMP	30′	26′	87	6
	2.4	JACK TONE Rd OC	207′	54′	1242	83
	2.4	JACK TONE Rd ON-RAMP SEPARATION	157′	54′	942	63
	2.6	JACK TONE Rd OFF-RAMP	30′	16′	54	4
	4.5	AUSTIN Rd ON-RAMP	30′	16′	54	4
	4.9	AUSTIN Rd OC	163′	54′	978	65
	5.0	AUSTIN Rd OFF-RAMP	30′	16′	54	4
	5.6	SB ON-RAMP FROM WB Rte 120	30′	16′	54	4
	5.8	Rte 99/120 CONNECTOR	174′	54′	1044	70
	6.2	SB OFF-RAMP TO WB Rte 120	30′	16′	54	4
	6.5	SB ON-RAMP FROM EB Rte 120	30′	16′	54	4
	6.5	Rte 99/120 SEPARATION (END CONSTRUCTION)	30′	49′	164	11
				TOTAL	11,657*	784*

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN

CALCULATED-DESIGNED BY: JHOANNA OAMILDA
CHECKED BY: JOSE A. ALICEA II

REVISED BY: JO
DATE REVISED: 01/03/11

LAST REVISION 00-00-00
DATE PLOTTED => 24-JAN-2011
TIME PLOTTED => 11:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	1.7/6.7	9	13

REGISTERED CIVIL ENGINEER 12/21/10 DATE

12/27/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

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

RUMBLE STRIP

PM/PM	LOCATION	STATION
1.70/5.80	NB INNER SHOULDER	217
1.70/2.09	NB OUTER SHOULDER	21
2.79/4.66	NB OUTER SHOULDER	99
4.80/5.04	NB OUTER SHOULDER	13
5.46/5.60	NB OUTER SHOULDER	8
1.70/5.82	SB INNER SHOULDER	218
1.70/1.85	SB OUTER SHOULDER	8
2.13/2.59	SB OUTER SHOULDER	25
2.82/4.28	SB OUTER SHOULDER	78
4.55/5.44	SB OUTER SHOULDER	47
5.62/5.82	SB OUTER SHOULDER	11
	TOTAL	745

ROADWAY ITEMS

LOCATION (ROUTE 99)	RHMA (GAP GRADED)	COLD PLANE AC PAVEMENT	HMA (TYPE A)	TACK COAT	IMPORTED MATERIAL (SHOULDER BACKING)
	TON	SQYD	TON	TON	TON
PM 1.7/6.7	22,243			139.2	1175
DIGOUTS		14,256	2407	14.8	
CONFORM TAPERS	784	11,657		5	
CONFORM TAPERS AT MBGR	134	2008		1	
CONFORM TAPERS AT AC DIKE	336	5068		2	
AC APRON			4	0.1	
TOTAL	23,497	32,989	2411	162.1	1175

TRAFFIC MANAGEMENT SYSTEM ELEMENTS (EXISTING)

PM	DIR	LOCATION	TYPE	DESCRIPTION
1.68	NB	MILGEO OVERCROSSING	TMS	TRAFFIC MONITORING SYSTEM
1.70	NB	MILGEO OVERCROSSING	CCTV	CLOSED CIRCUIT TELEVESION
1.70	NB	MILGEO OVERCROSSING	CMS	CHANGEABLE MESSAGE SIGN
1.70	NB	MILGEO OVERCROSSING	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
1.71	NB/SB	SOUTH OF JACK TONE ROAD	TMS	TRAFFIC MONITORING SYSTEM
2.27	SB	JACK TONE ROAD	SIGNAL	TRAFFIC SIGNAL
2.40	NB	JACK TONE ROAD	SIGNAL	TRAFFIC SIGNAL
3.15	NB/SB	NORTH OF JACK TONE ROAD	TMS	TRAFFIC MONITORING SYSTEM
5.03	NB/SB	AUSTIN ROAD	TMS	TRAFFIC MONITORING SYSTEM
6.17	SB	YOSEMITE AVENUE	SIGNAL	TRAFFIC SIGNAL
6.18	NB	YOSEMITE AVENUE	SIGNAL	TRAFFIC SIGNAL
6.65	NB/SB	MANTECA, NORTH OF JUNCTION ROUTE 120	TMS	TRAFFIC MONITORING SYSTEM

NOTE: TRAFFIC MANAGEMENT SYSTEM ELEMENT LOCATIONS ARE APPROXIMATE.

PAVEMENT DELINEATION ITEMS

LOCATION (ROUTE 99)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	4" THERMOPLASTIC TRAFFIC STRIPE			4" THERMOPLASTIC TRAFFIC STRIPE		8" THERMOPLASTIC TRAFFIC STRIPE			8" THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER (N)	PAVEMENT MARKER (RETROREFLECTIVE)										REMOVE THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC PAVEMENT MARKING									
					BROKEN 17-7	BROKEN 36-12				BROKEN 12-3		TYPE C		TYPE G						TYPE H								ARROWS					
		YELLOW		WHITE	WHITE	WHITE	WHITE			WHITE																							
		DETAIL 25	DETAIL 25A	DETAIL 27B	DETAIL 8	DETAIL 12	DETAIL 36	DETAIL 38	DETAIL 38B	DETAIL 37		DETAIL 14A	DETAIL 37	DETAIL 12	DETAIL 36	DETAIL 37	DETAIL 38	DETAIL 38B	ADVANCE EXIT RAMP	DETAIL 25	DETAIL 25A		EXIT	ONLY	SIGNAL	AHEAD	TYPE II (R) ARROW	TYPE III (L) ARROW	TYPE V ARROW	TYPE VI (R) ARROW	TYPE VI (L) ARROW	AIRCRAFT PATROL
	LF	LF			LF	LF	LF			LF	EA	EA										SQFT	SQFT									
PM 1.7/6.7		52,800		52,800		105,600					3300	96		2104						1100		283								126	126	31
ON/OFF-RAMPS	23,588		450	4979	986		7222	6122	1468	8776	1298		590		308	4	262	62	42		30	546	51	66	64	62	42	45	132		84	
SUBTOTAL	23,588	52,800	450	57,779	986	105,600	7222	6122	1468	8776	4598	96	590	2104	308	4	262	62	42	1100	30	829	51	66	64	62	42	45	132	126	210	31
TOTAL	23,588	111,029			986	105,600	14,812			8776		4598										829	829									

SUMMARY OF QUANTITIES
Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JHOANNA OAMILDA
CHECKED BY: JOSE A. ALICEA II
REVISED BY: JO
DATE REVISED: 01/03/11

LAST REVISION 00-00-00
DATE PLOTTED => 24-JAN-2011
TIME PLOTTED => 11:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	1.7/6.7	10	13

REGISTERED ELECTRICAL ENGINEER 12/23/10 DATE

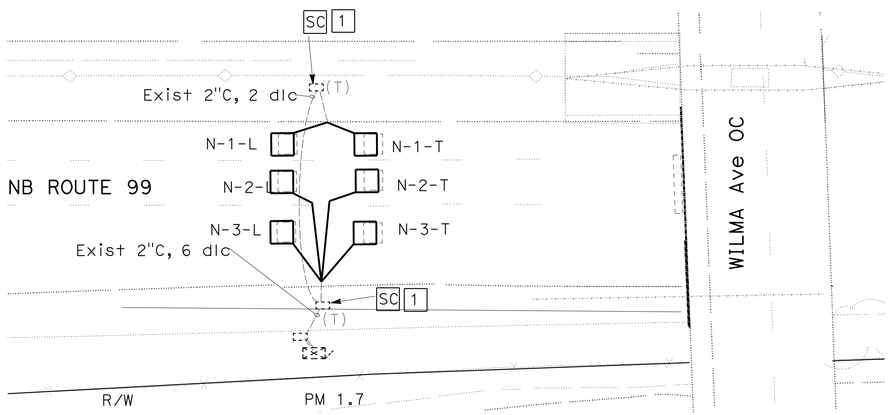
12/27/10
PLANS APPROVAL DATE

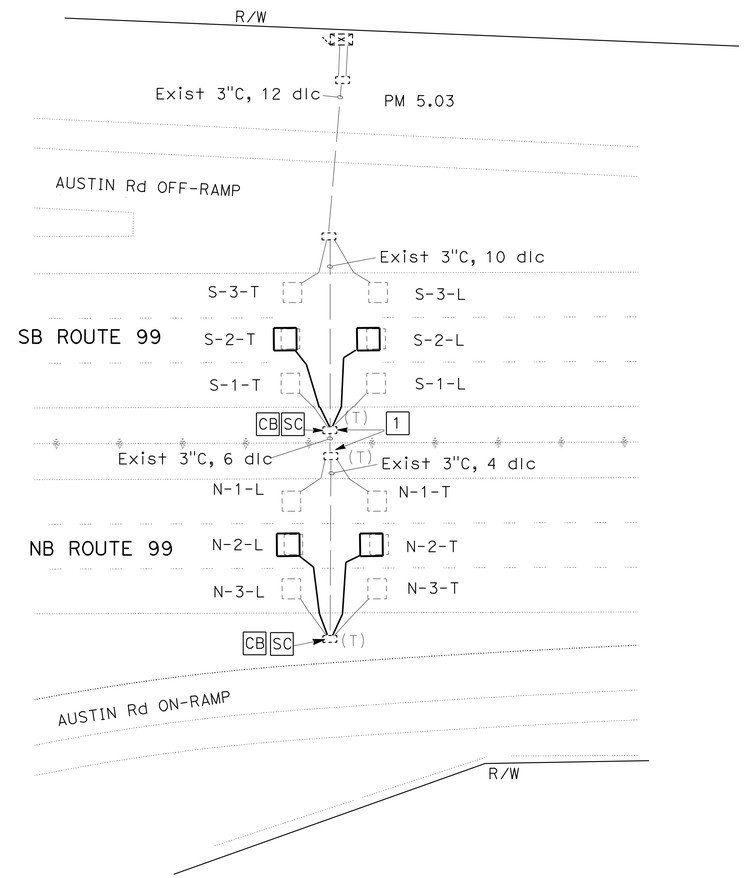
REGISTERED PROFESSIONAL ENGINEER Jaspal Singh No. 16657 Exp. 6/30/12 ELECTRICAL STATE OF CALIFORNIA

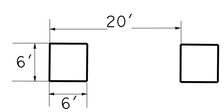
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. ADJUST PB TO FINISHED GRADE.
2. AB Exist LOOP DETECTORS. SEE DETAIL A FOR INSTALLATION OF LOOP DETECTORS.
3. FOR ACCURATE RIGHT OF WAY DATA CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.







TYPICAL LOOP DETECTOR LAYOUT

N-1-L
- L = LEADING
- T = TRAILING
- LANE NUMBER
- N = NORTHBOUND
- S = SOUTHBOUND

LOOP DETECTOR IDENTIFICATION

DETAIL A

THE PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

INDUCTIVE LOOP DETECTOR

NO SCALE

E-1

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

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: JASPAL SINGH
CHECKED BY: FRED IYASERE
REVISED BY: JS
DATE REVISED: 12/23/10

LAST REVISION 12-22-10
DATE PLOTTED => 24-JAN-2011
TIME PLOTTED => 11:17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	99	1.7/6.7	11	13

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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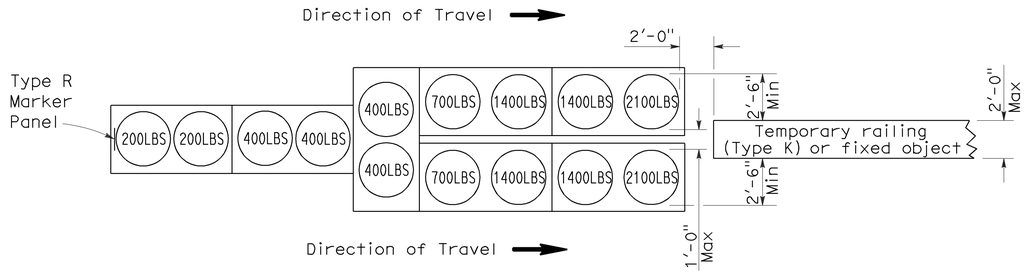
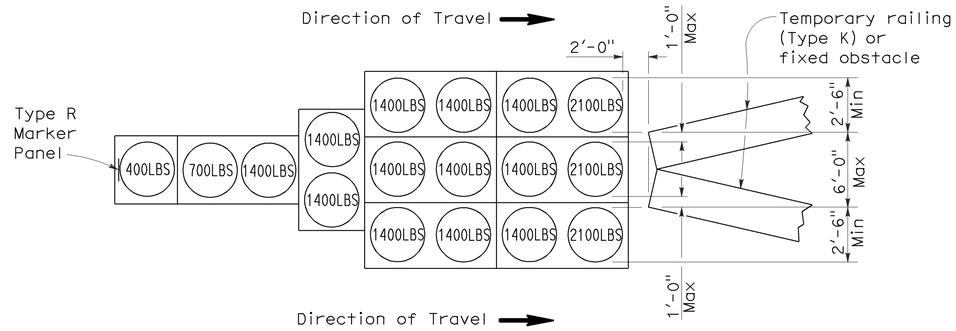
To accompany plans dated 12/27/10



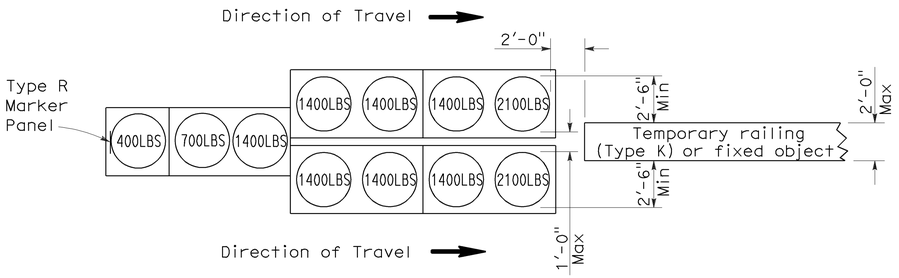
ARRAY 'TU14'

Approach speed 45 mph or more



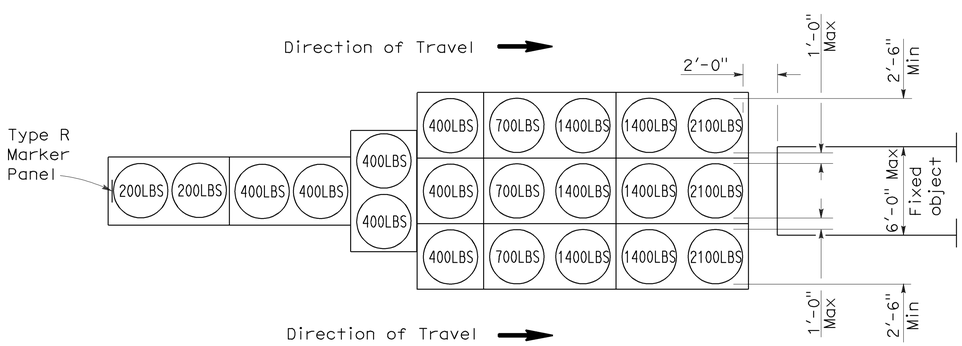
ARRAY 'TU17'

Approach speed less than 45 mph



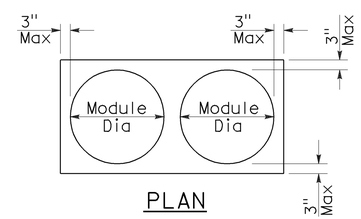
ARRAY 'TU11'

Approach speed less than 45 mph

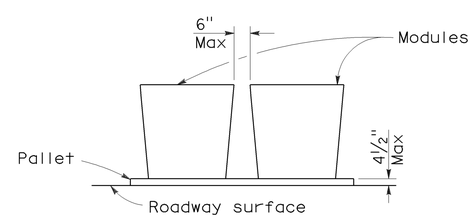


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	99	1.7/6.7	12	13

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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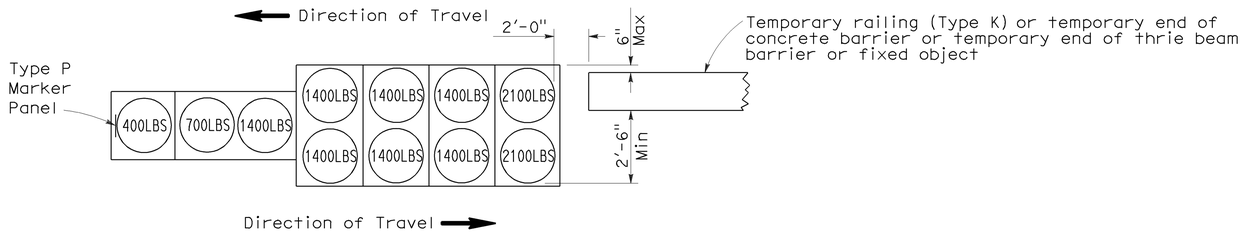
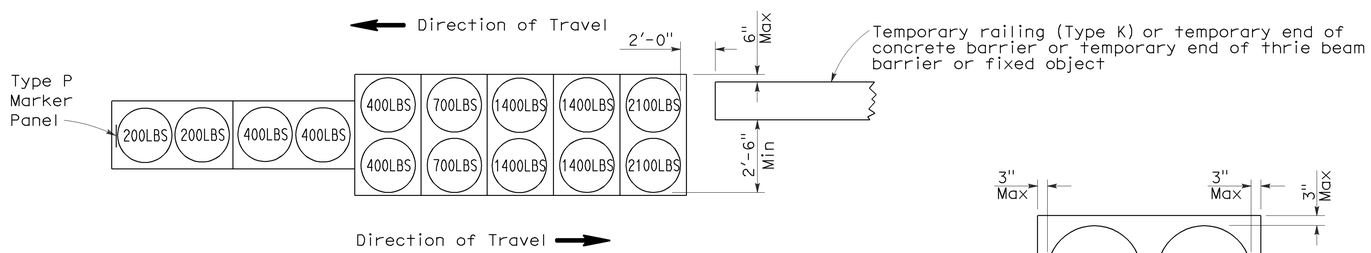
To accompany plans dated 12/27/10



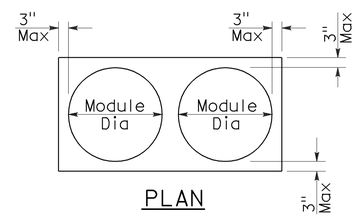
ARRAY 'TB11'

Approach speed less than 45 mph

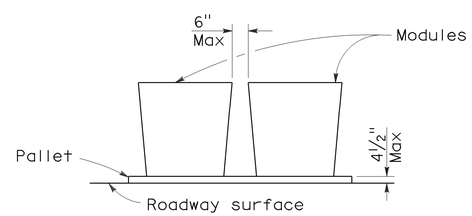


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	99	1.7/6.7	13	13

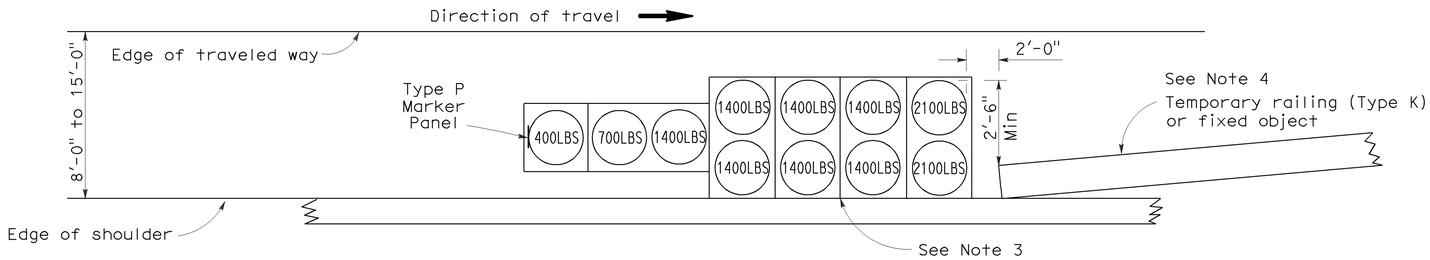
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

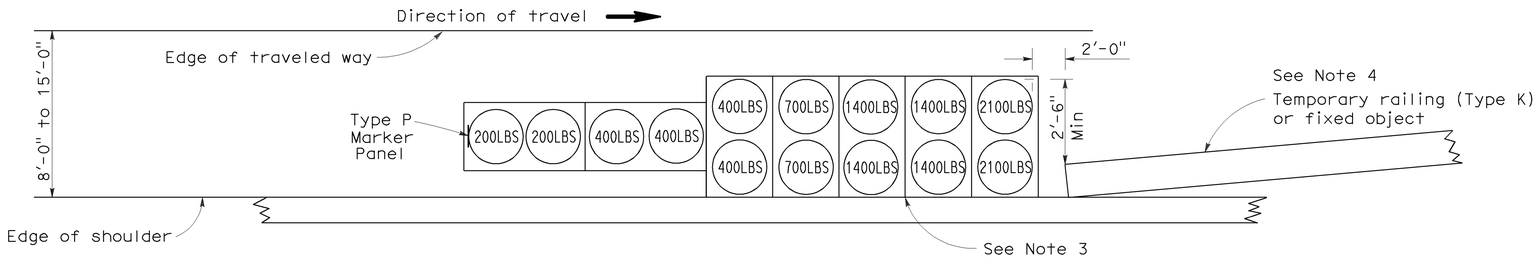
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 12/27/10



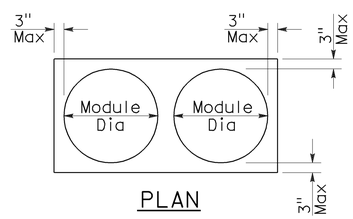
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

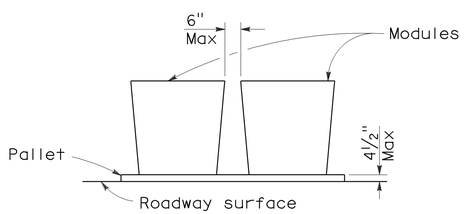


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08