Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	1	30

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION AREA SIGNS
4-17	TRAFFIC HANDLING PLANS AND QUANTITIES
18-25	PAVEMENT DELINEATION DETAILS AND QUANTITIES
26	SIGN PLAN AND QUANTITIES
27-30	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

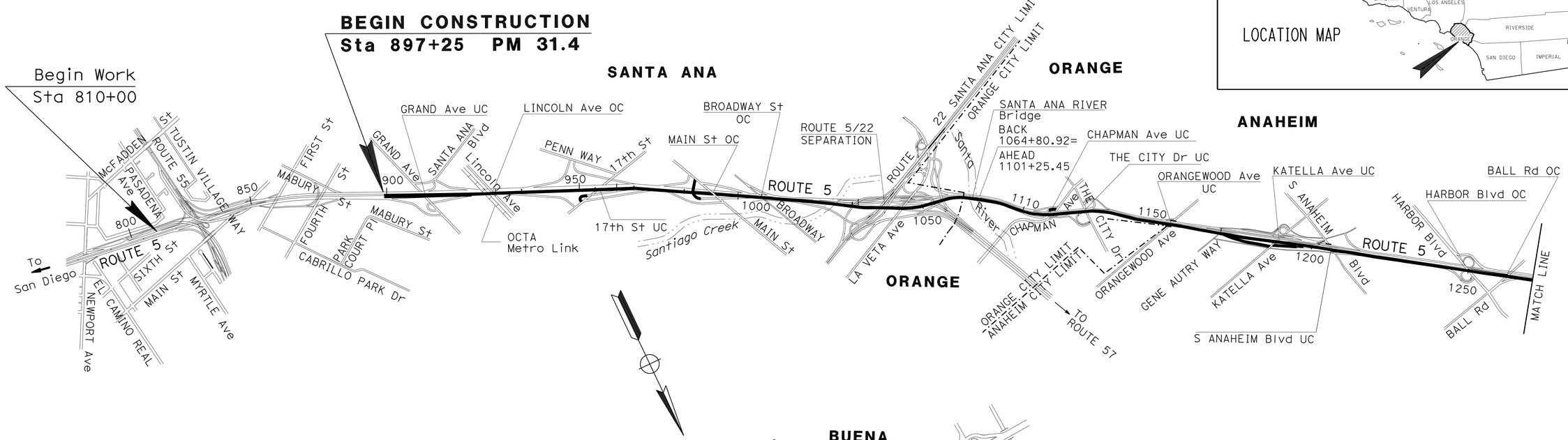
PROJECT PLANS FOR CONSTRUCTION ON

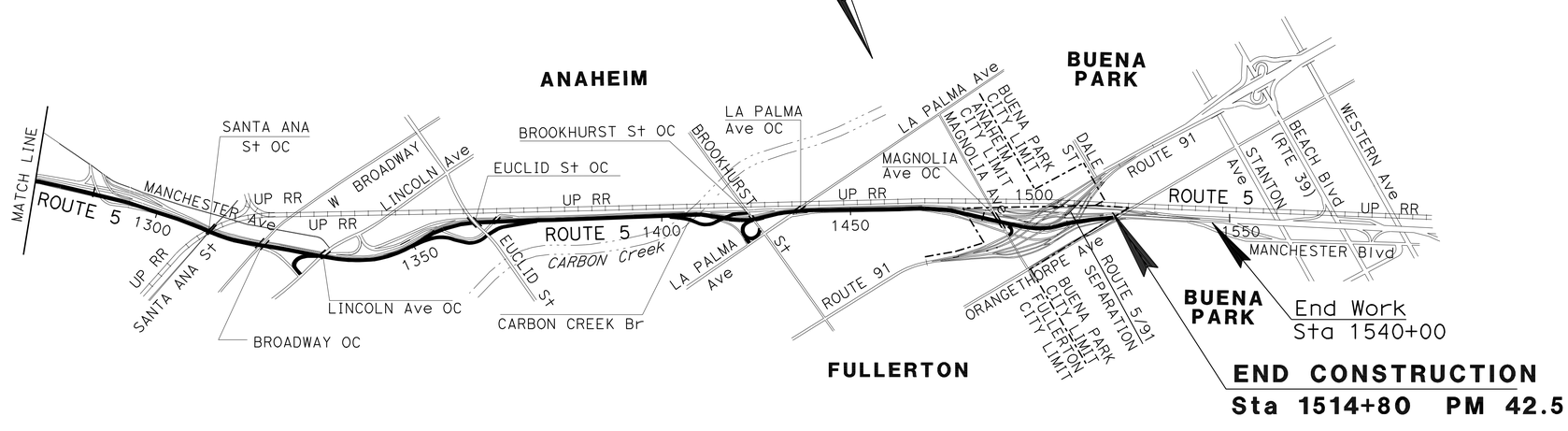
STATE HIGHWAY

IN ORANGE COUNTY
IN SANTA ANA, ANAHEIM, AND BUENA PARK
FROM 0.4 MILE SOUTH OF GRAND AVENUE UNDERCROSSING
TO 0.6 MILE NORTH OF MAGNOLIA AVENUE OVERCROSSING

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."

PROJECT MANAGER: MASSOUD TAJIK

DESIGN ENGINEER: LAWRENCE LE

Lawrence Le 11-19-09
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

February 1, 2010
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — LAWRENCE LE No. C 57405 Exp. 12/31/09 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. **12-0K4504**

LAST REVISION 11-16-09 | DATE PLOTTED => 18-FEB-2010 | TIME PLOTTED => 11:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	2	30

Lawrence Le 11-19-09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/09 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:

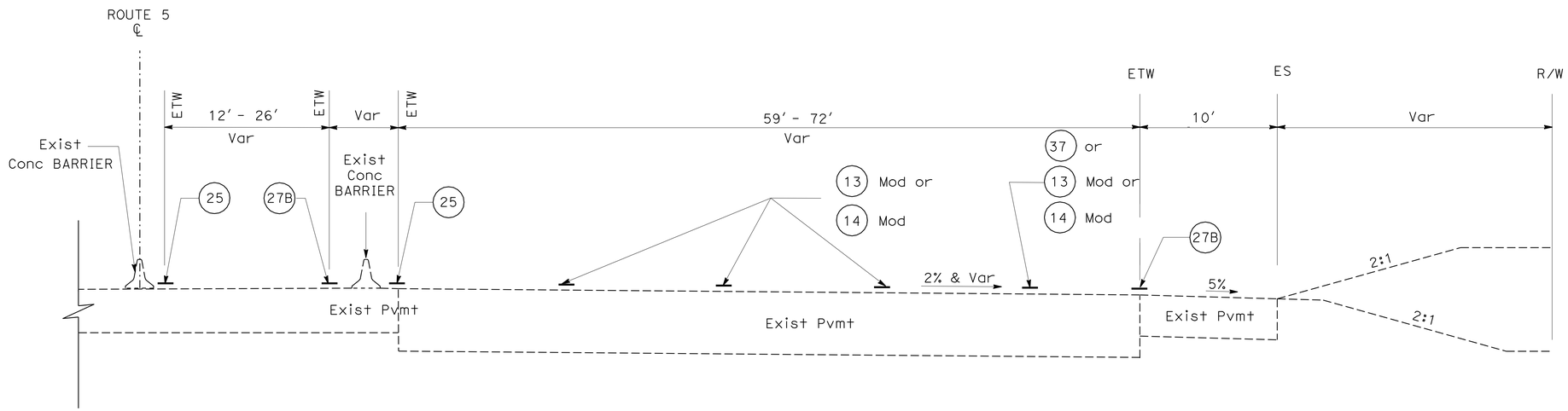
1) EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS
2) ALL EXISTING PAVEMENT DELINEATION SHALL BE REMOVED PRIOR TO APPLYING NEW PAVEMENT DELINEATION.

LEGEND:

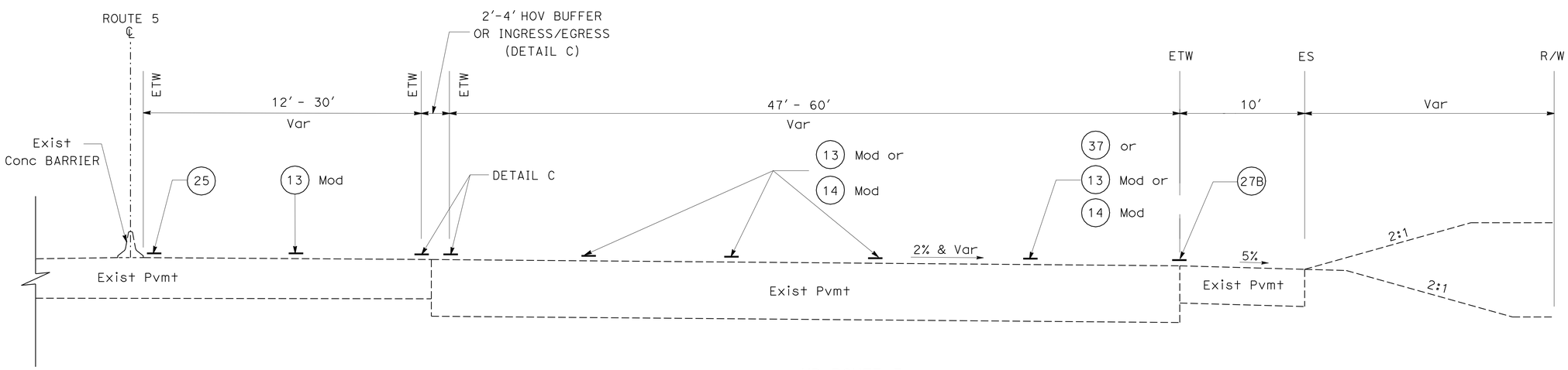
(X) PAVEMENT DELINEATION DETAIL

ABBREVIATIONS:

APPROX: APPROXIMATELY
HOV: HIGH OCCUPANCY VEHICLE



NB ROUTE 5
PM 32.0 TO PM 34.4



NB ROUTE 5
PM 31.4 TO PM 32.0
PM 34.4 TO PM 42.5

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN BRANCH I

FUNCTIONAL SUPERVISOR: ADEL MALEK
CALCULATED-DESIGNED BY: LAWRENCE LE
CHECKED BY: LAWRENCE LE
REVISED BY: L. LE
DATE REVISED: 10/14/09
L. LE 10/14/09

LAST REVISION 11-16-09
DATE PLOTTED => 18-FEB-2010
TIME PLOTTED => 11:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	3	30

Lawrencele 01-28-10
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

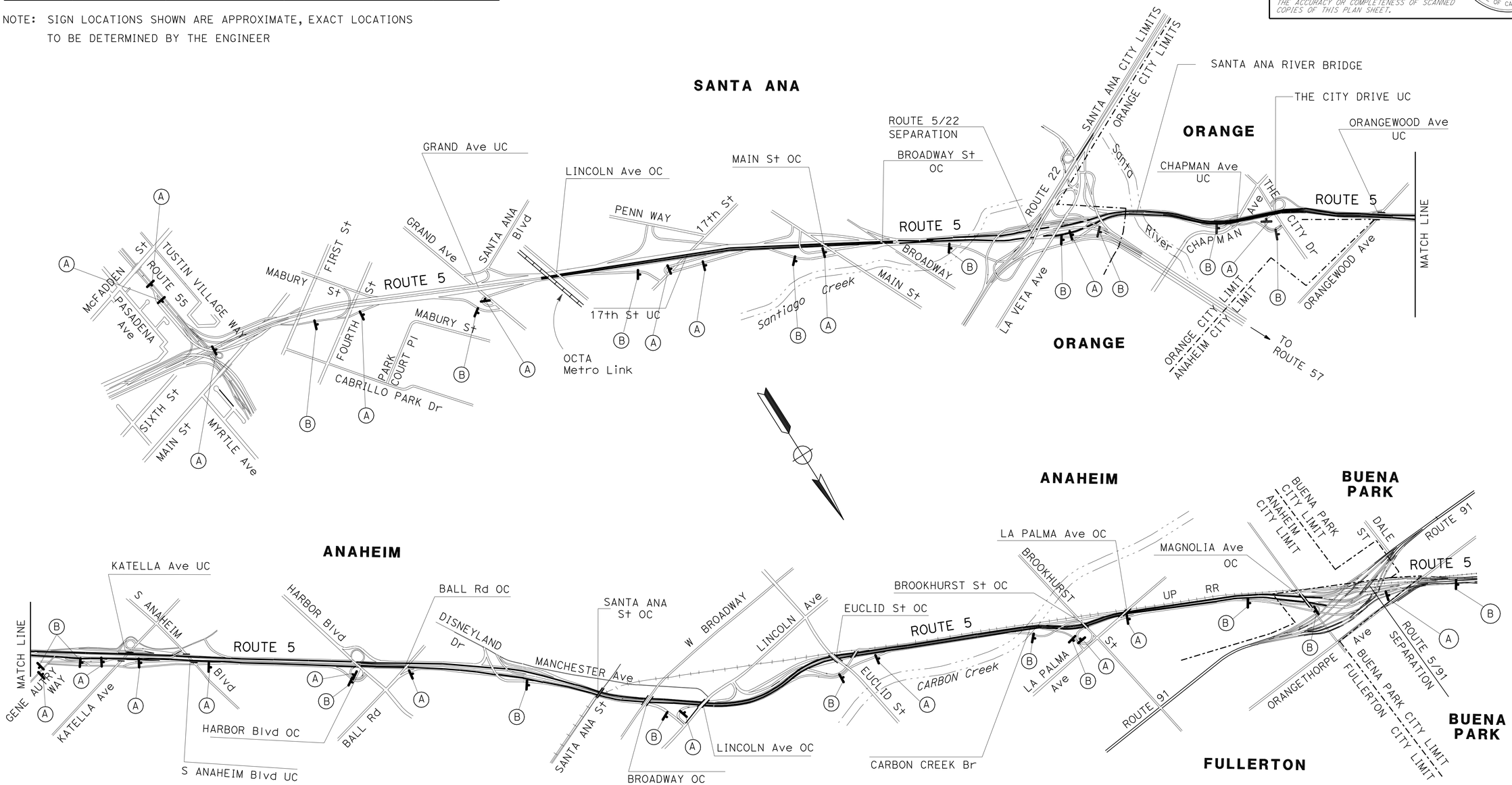
REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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.

CONSTRUCTION AREA SIGNS

SIGN No. ◯	SIGN CODE	PANEL SIZE (IN x IN)	SIGN MESSAGE	No. OF SIGNS
A	C23-2(CA)	48 x 48	ROAD WORK AHEAD	21
B	C14(CA)	48 x 24	END ROAD WORK	20

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



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN BRANCH I

FUNCTIONAL SUPERVISOR: ADEL MALEK
CALCULATED-DESIGNED BY: LAWRENCE LE
CHECKED BY: LAWRENCE LE
REVISED BY: L. LE 01/28/10
DATE REVISED: L. LE 01/28/10

LAST REVISION 01-28-10
DATE PLOTTED => 18-FEB-2010
TIME PLOTTED => 11:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	4	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/09 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) LOCATIONS OF CONSTRUCTION AREA SIGNS (DETOUR) AND PCMS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER

2) DURING NB Rte 55 & HOV CONNECTOR TO NB Rte 5 CLOSURE, PCMS-1 SHOULD DISPLAY:

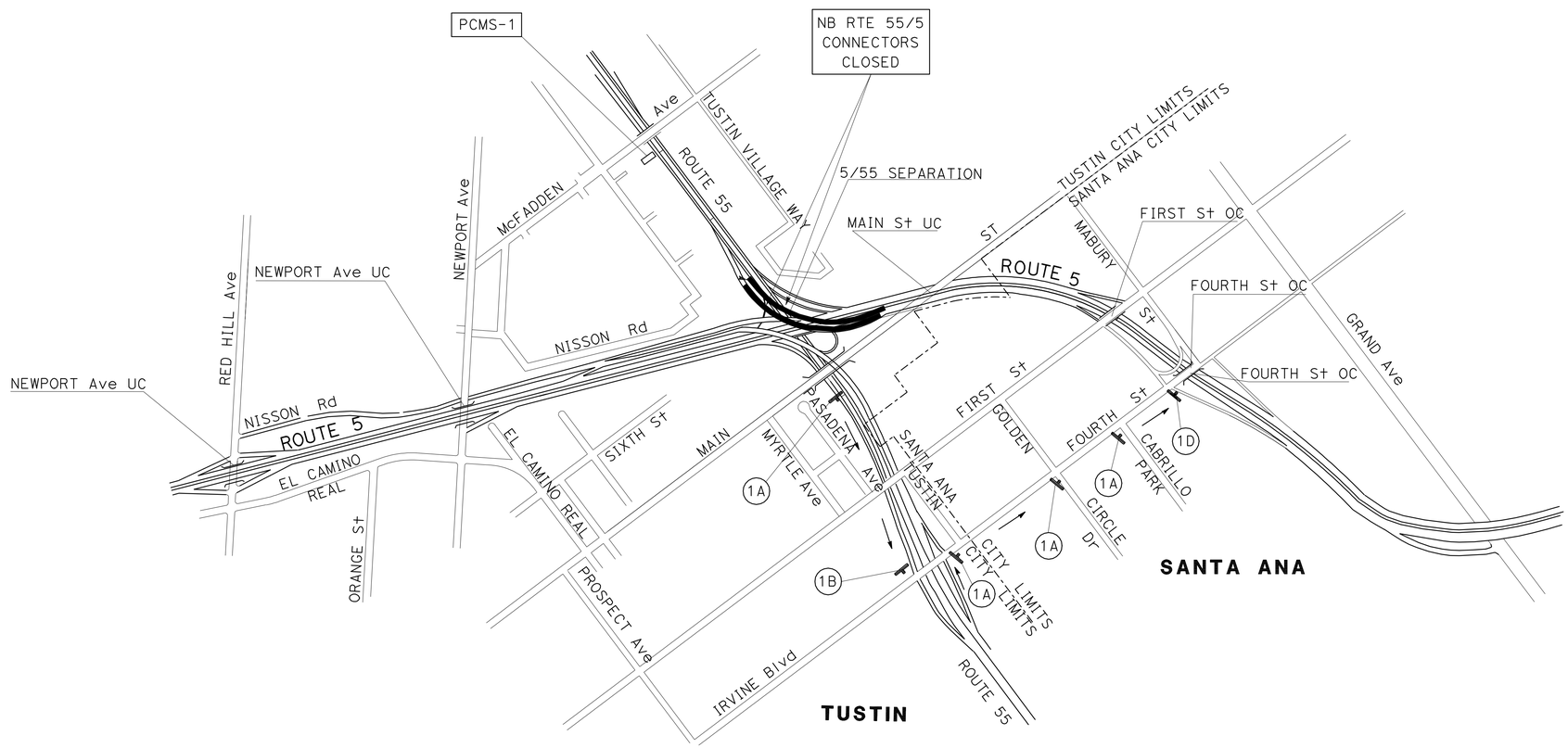
NB 55/5 & HOV CONN CLOSED	USE FOURTH ST EXIT
1ST FRAME	2ND FRAME

ABBREVIATION:

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

LEGENDS:

- ▯ PCMS
- (X) CONSTRUCTION AREA SIGN (DETOUR)
- → DIRECTION OF DETOUR TRAFFIC
- ▬ CLOSURE



CLOSURE: NB Rte 55 & HOV CONNECTORS CLOSED AT Rte 5

DETOUR: TAKE FOURTH St EXIT, TURN LEFT ON WB FOURTH St, TURN RIGHT AT ON-RAMP TO NB Rte 5.

DETOUR	SC3-1(CA)	1A
INTERSTATE 5	G27-2(CA)	
NORTH	M3-1	
DETOUR	M4-10(LT)	1B
INTERSTATE 5	G27-2(CA)	
NORTH	M3-1	
END DETOUR	M4-8A	1D

TRAFFIC HANDLING PLAN

NO SCALE

TH-1

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY

REVISED BY	DATE REVISED
L. LE	10/14/09
L. LE	10/14/09

CALCULATED-DESIGNED BY: LAWRENCE LE
CHECKED BY: LAWRENCE LE

FUNCTIONAL SUPERVISOR: ADEL MALEK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN BRANCH I

LAST REVISION 10-21-09
DATE PLOTTED => 18-FEB-2010
TIME PLOTTED => 11:25

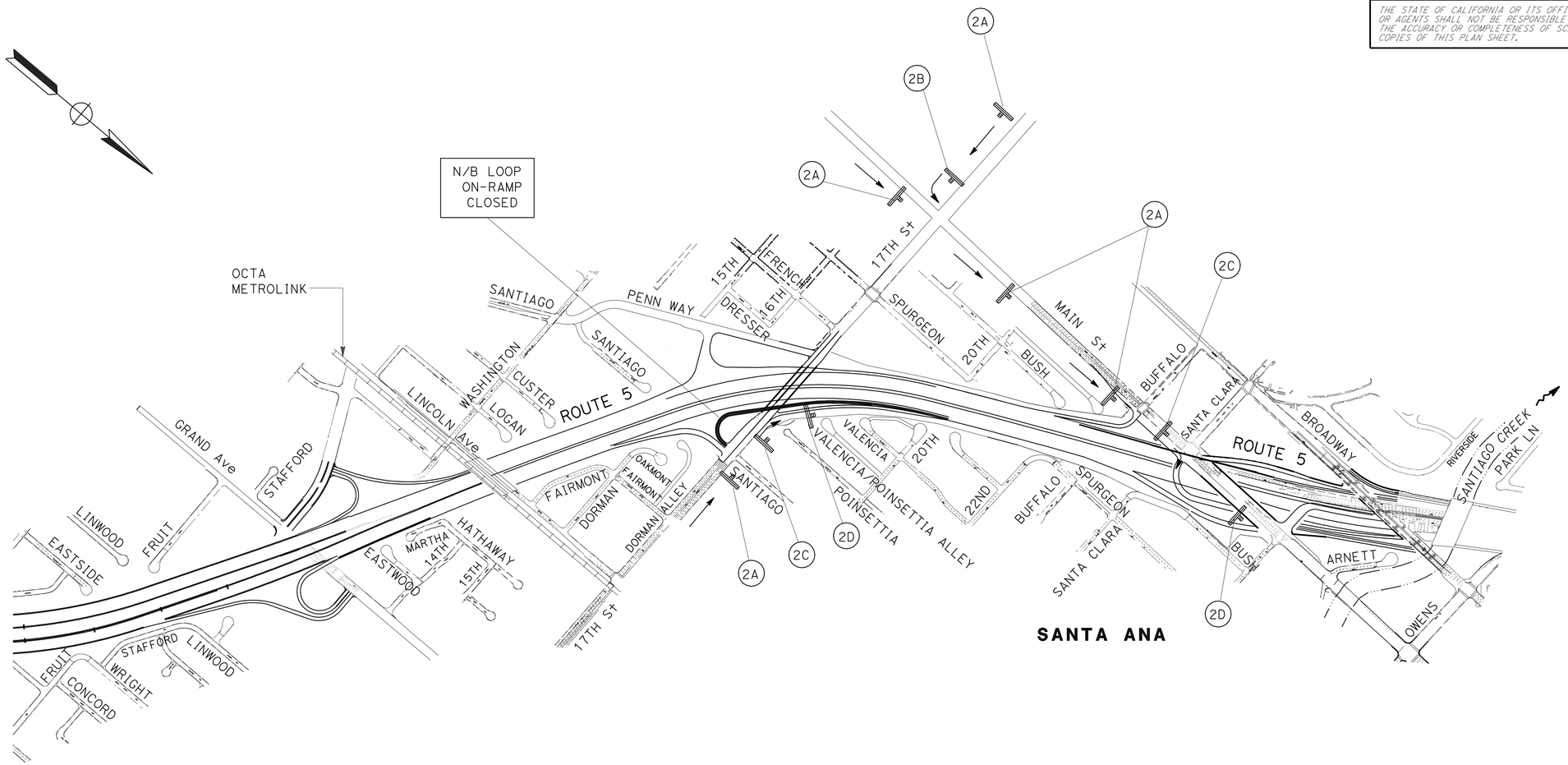
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	5	30

REGISTERED CIVIL ENGINEER — DATE: 11-19-09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — LAWRENCE LE No. C 57405 Exp. 12/31/09 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.



CLOSURE: NB RTE 5 LOOP ON-RAMP CLOSED AT 17TH St

DETOURS: EB 17TH St: TURN LEFT ON NB MAIN St, TURN RIGHT AT ON-RAMP TO NB Rte 5

WB 17TH St: TURN RITHT AT ON-RAMP TO NB Rte 5

SC3-1(CA)
G27-2(CA)
M3-1
2A

M4-10(LT)
G27-2(CA)
M3-1
2B

M4-10(RT)
G27-2(CA)
M3-1
2C

M4-8A
2D

TRAFFIC HANDLING PLAN

NO SCALE

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY

TH-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN BRANCH I

FUNCTIONAL SUPERVISOR: ADEL MALEK

CALCULATED-DESIGNED BY: LAWRENCE LE — REVISED BY: L. LE — 10/14/09
CHECKED BY: LAWRENCE LE — DATE REVISED: L. LE — 10/14/09

LAST REVISION 10-21-09 — DATE PLOTTED => 18-FEB-2010 — TIME PLOTTED => 11:25

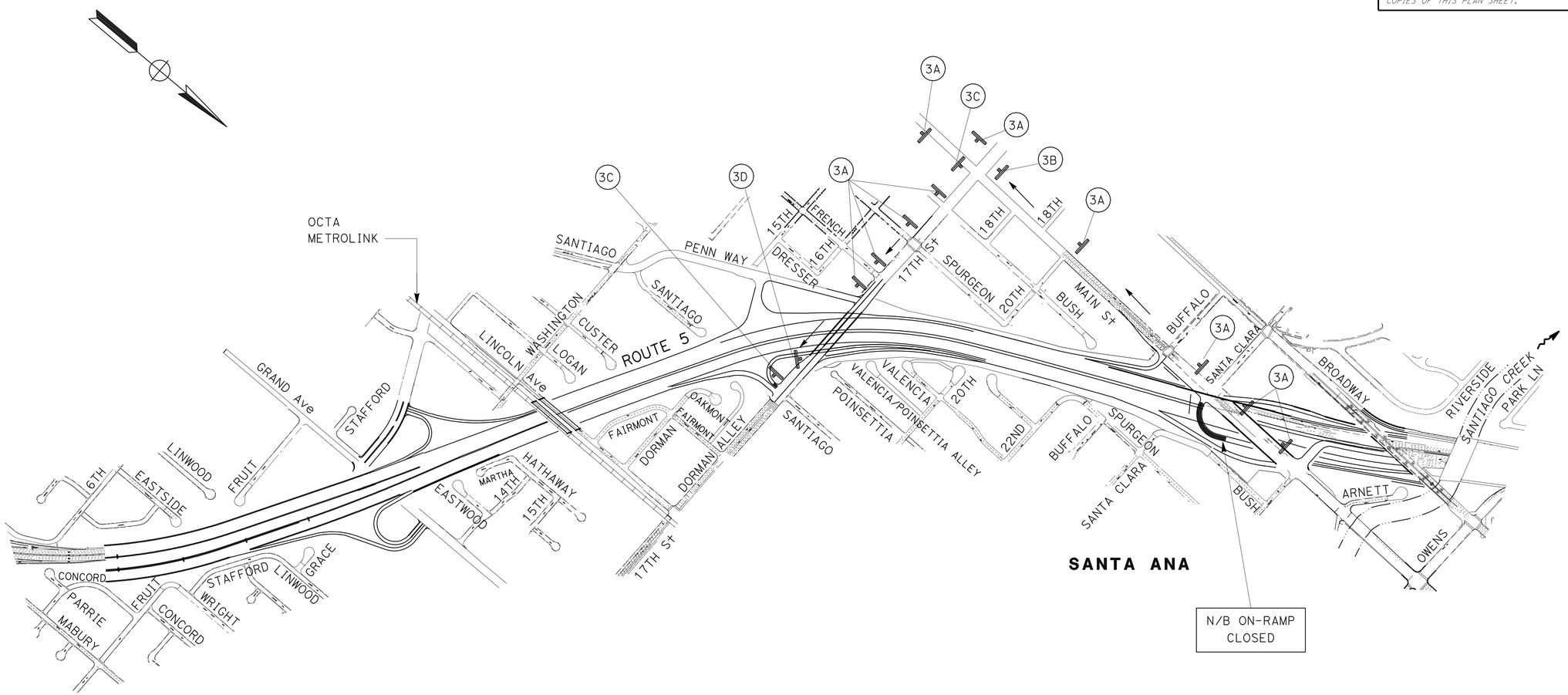
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	6	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE LE
No. C 57405
Exp. 12/31/09
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.



CLOSURE: NB Rte 5 ON-RAMP CLOSED AT MAIN St

DETOUR: TAKE SB MAIN St, TURN LEFT AT 17TH St, TURN RIGHT AT ON-RAMP TO NB Rte 5

DETOUR	SC3-1(CA)	M4-10(LT)	M4-10(RT)
INTERSTATE 5	G27-2(CA)	G27-2(CA)	G27-2(CA)
NORTH	M3-1	M3-1	M3-1
3A		3B	3C

END DETOUR M4-8A
3D

TRAFFIC HANDLING PLAN

NO SCALE

TH-3

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN BRANCH I

FUNCTIONAL SUPERVISOR: ADEL MALEK

CALCULATED-DESIGNED BY: LAWRENCE LE
CHECKED BY: LAWRENCE LE

REVISED BY: L. LE
DATE REVISED: 10/14/09 10/14/09

LAST REVISION 10-22-09
DATE PLOTTED => 18-FEB-2010
TIME PLOTTED => 11:25

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trlenard
DGN FILE => c0k450md003.dgn

CU 12241

EA 0K4501

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	7	30

Lawrencele 11-19-09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

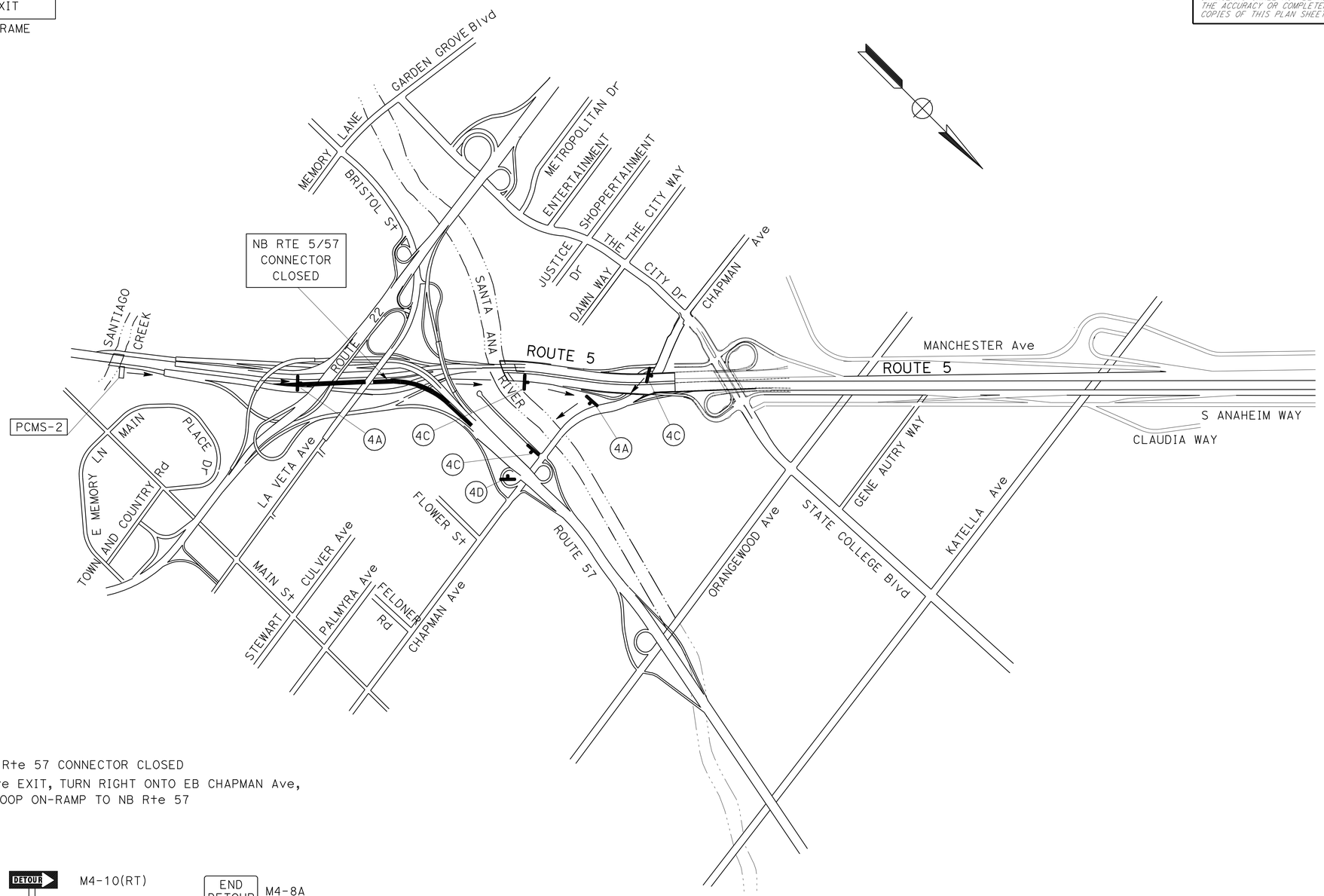
REGISTERED PROFESSIONAL ENGINEER
LAWRENCE LE
No. C 57405
Exp. 12/31/09
CIVIL
STATE OF CALIFORNIA

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.

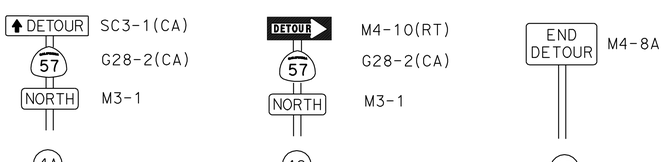
NOTES:

DURING NB Rte 5 TO NB Rte 57 CONNECTOR CLOSURE, PCMS-2 SHOULD DISPLAY:

NB 5/57 CONNECTOR CLOSED	USE CHAPMAN AVE EXIT
1ST FRAME	2ND FRAME



CLOSURE: NB Rte 5 TO NB Rte 57 CONNECTOR CLOSED
DETOUR: TAKE CHAPMAN Ave EXIT, TURN RIGHT ONTO EB CHAPMAN Ave, TURN RIGHT AT LOOP ON-RAMP TO NB Rte 57



THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY

TRAFFIC HANDLING PLAN

NO SCALE

TH-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN BRANCH I

FUNCTIONAL SUPERVISOR: ADEL MALEK
CALCULATED-DESIGNED BY: LAWRENCE LE
CHECKED BY: LAWRENCE LE
REVISED BY: L. LE
DATE REVISED: 10/14/09
L. LE 10/14/09

LAST REVISION 10-21-09
DATE PLOTTED => 18-FEB-2010
TIME PLOTTED => 11:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	8	30

Lawrence Le 11-19-09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

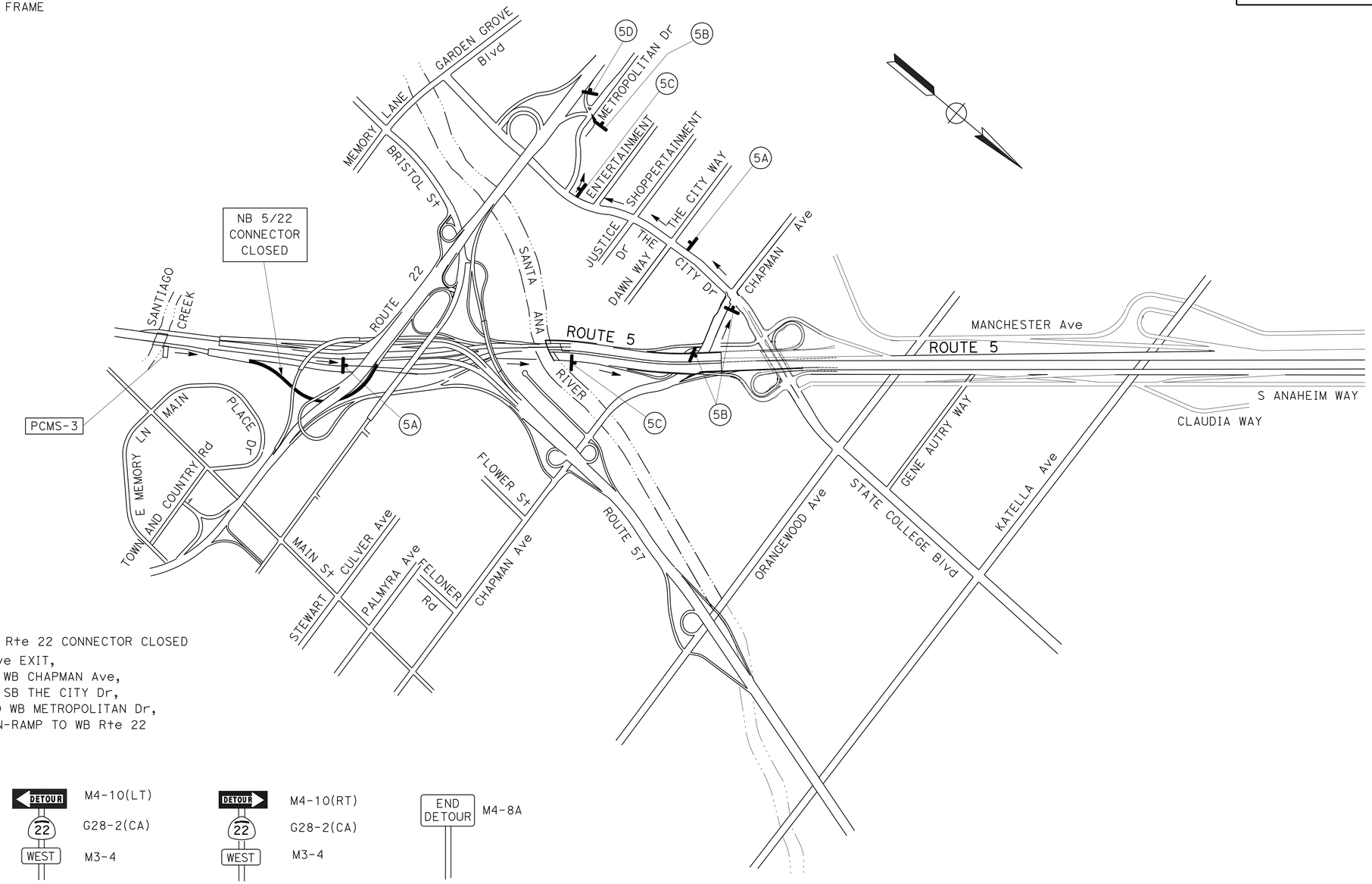
REGISTERED PROFESSIONAL ENGINEER
LAWRENCE LE
No. C 57405
Exp. 12/31/09
CIVIL
STATE OF CALIFORNIA

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.

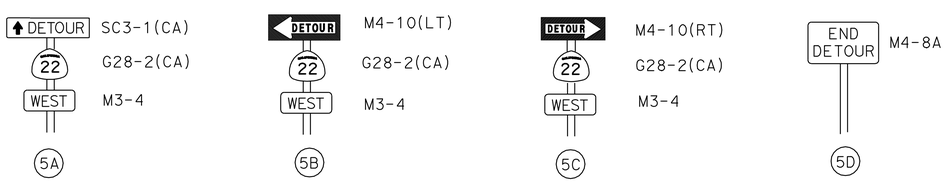
NOTES:

DURING NB Rte 5 TO WB Rte 22 CONNECTOR CLOSURE, PCMS-3 SHOULD DISPLAY:

NB 5/22 CONNECTOR CLOSED	USE CHAPMAN AVE EXIT
1ST FRAME	2ND FRAME



CLOSURE: NB Rte 5 TO WB Rte 22 CONNECTOR CLOSED
DETOUR: TAKE CHAPMAN Ave EXIT,
TURN LEFT ONTO WB CHAPMAN Ave,
TURN LEFT ONTO SB THE CITY Dr,
TURN RIGHT ONTO WB METROPOLITAN Dr,
TURN LEFT AT ON-RAMP TO WB Rte 22



TRAFFIC HANDLING PLAN

NO SCALE

TH-5

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans	DESIGN BRANCH I	
FUNCTIONAL SUPERVISOR	ADEL MALEK		
CALCULATED-DESIGNED BY	LAWRENCE LE	REVISED BY	L. LE
CHECKED BY	LAWRENCE LE	DATE REVISED	10/14/09
		L. LE	10/14/09

LAST REVISION 10-21-09 | DATE PLOTTED => 18-FEB-2010 | TIME PLOTTED => 11:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	9	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

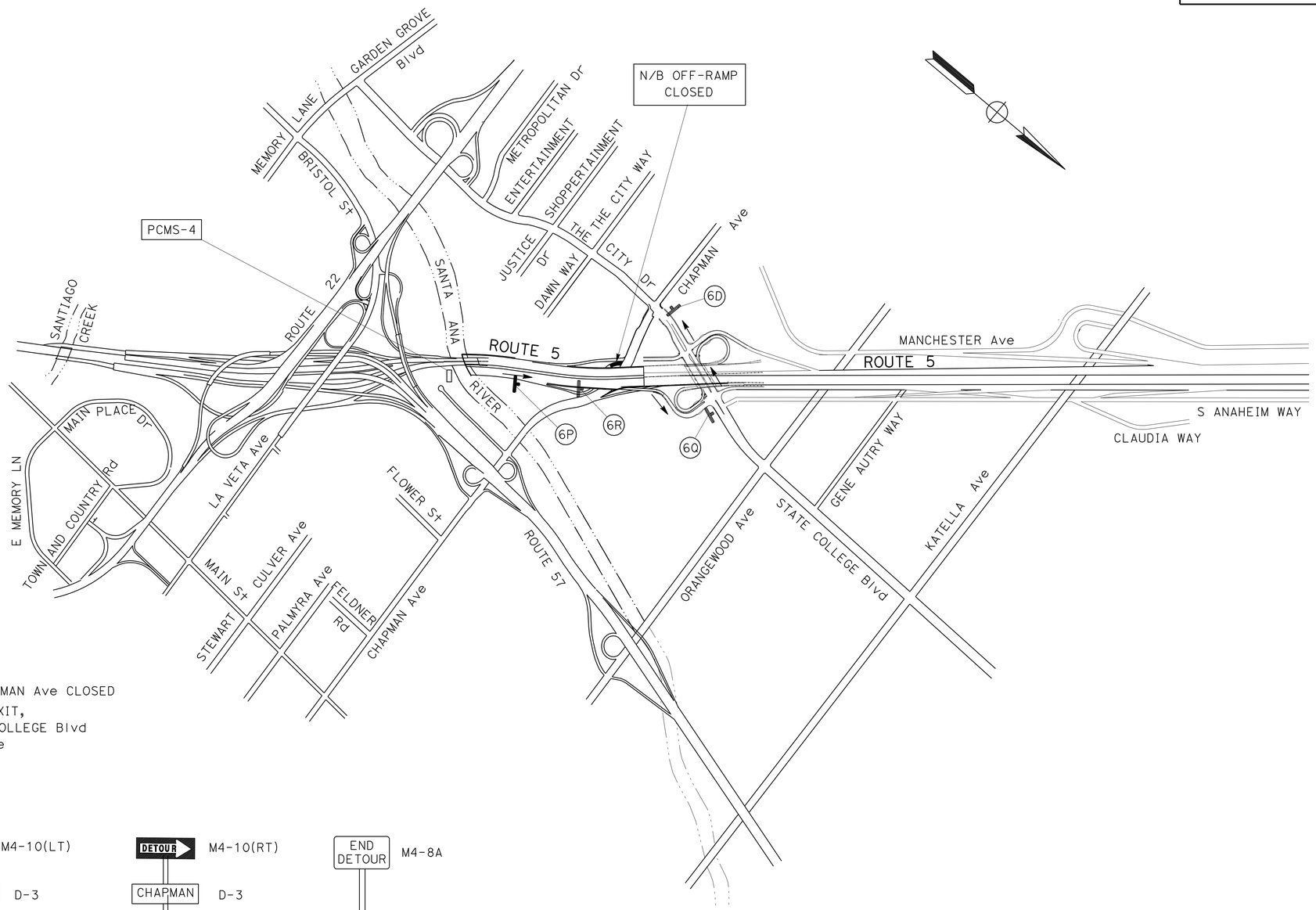
REGISTERED PROFESSIONAL ENGINEER
LAWRENCE LE
No. C 57405
Exp. 12/31/09
CIVIL
STATE OF CALIFORNIA

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:

DURING NB Rte 5 OFF-RAMP TO CHAPMAN Ave CLOSURE, PCMS-4 SHOULD DISPLAY:

CHAPMAN EXIT CLOSED	→	USE STATE COLLEGE EXIT
1ST FRAME		2ND FRAME



CLOSURE: NB Rte 5 OFF-RAMP TO CHAPMAN Ave CLOSED
DETOUR: TAKE STATE COLLEGE Blvd EXIT,
TURN LEFT ONTO SB STATE COLLEGE Blvd
GO STRAIGHT TO CHAPMAN Ave

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY

TRAFFIC HANDLING PLAN

NO SCALE

TH-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN BRANCH I

FUNCTIONAL SUPERVISOR: ADEL MALEK

CALCULATED-DESIGNED BY: LAWRENCE LE — REVISED BY: L. LE — 10/14/09
CHECKED BY: LAWRENCE LE — DATE REVISED: L. LE — 10/14/09

LAST REVISION 10-22-09 — DATE PLOTTED => 18-FEB-2010 — TIME PLOTTED => 11:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	10	30

REGISTERED CIVIL ENGINEER — DATE 11-19-09

2-1-10
PLANS APPROVAL DATE

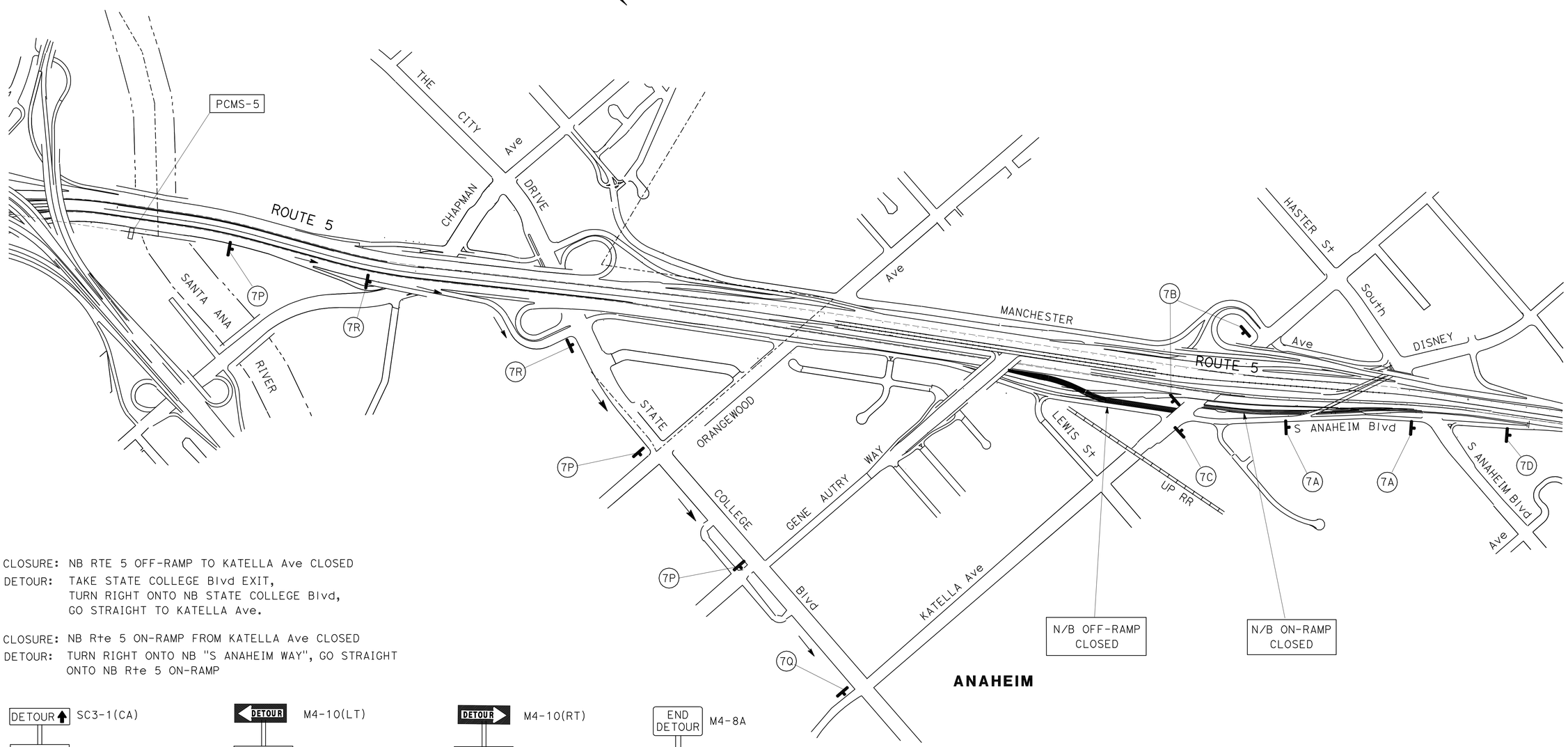
REGISTERED PROFESSIONAL ENGINEER — LAWRENCE LE No. C 57405 Exp. 12/31/09 CIVIL — STATE OF CALIFORNIA

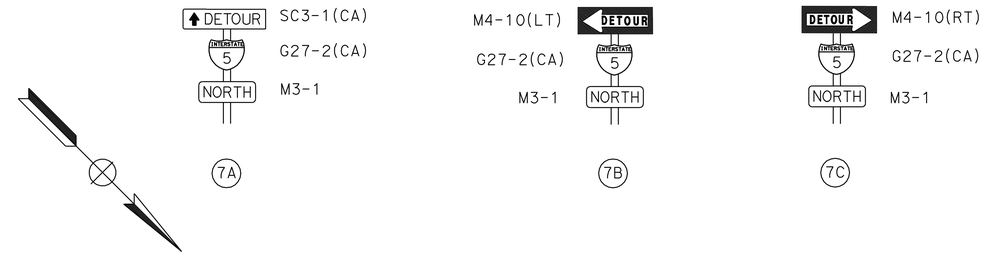
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

DURING NB Rte 5 OFF-RAMP TO KATELLA Ave CLOSURE, PCMS-5 SHOULD DISPLAY:

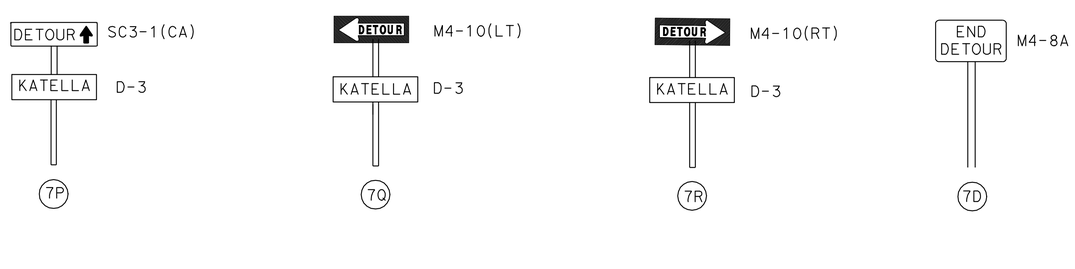
KATELLA EXIT CLOSED	USE STATE COLLEGE EXIT
1ST FRAME	2ND FRAME





CLOSURE: NB RTE 5 OFF-RAMP TO KATELLA Ave CLOSED
DETOUR: TAKE STATE COLLEGE Blvd EXIT,
TURN RIGHT ONTO NB STATE COLLEGE Blvd,
GO STRAIGHT TO KATELLA Ave.

CLOSURE: NB Rte 5 ON-RAMP FROM KATELLA Ave CLOSED
DETOUR: TURN RIGHT ONTO NB "S ANAHEIM WAY", GO STRAIGHT ONTO NB Rte 5 ON-RAMP



TRAFFIC HANDLING PLAN

NO SCALE

TH-7

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY

10/14/09	L. LE	LAWRENCE LE
10/14/09	L. LE	LAWRENCE LE
REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY
		CHECKED BY

FUNCTIONAL SUPERVISOR: ADEL MALEK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN BRANCH I

LAST REVISION 10-23-09 | DATE PLOTTED => 18-FEB-2010 | TIME PLOTTED => 11:26

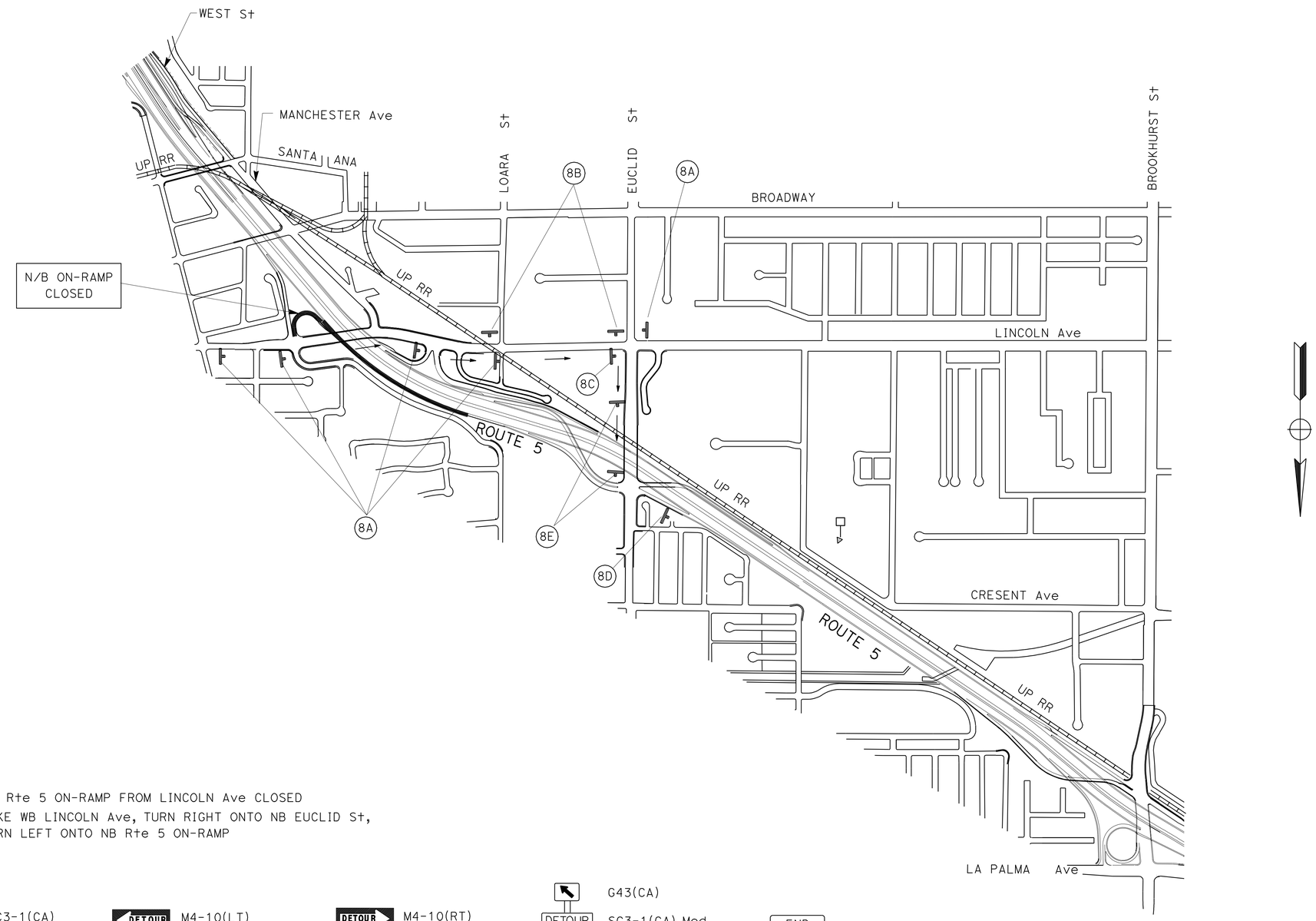
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	11	30

Lawrence Le 11-19-09
REGISTERED CIVIL ENGINEER DATE

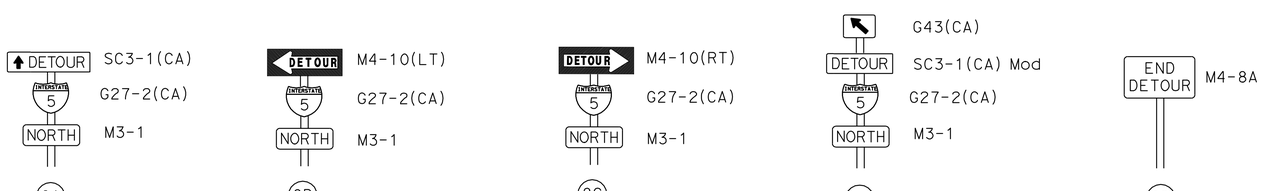
2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE LE
No. C 57405
Exp. 12/31/09
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.



CLOSURE: NB Rte 5 ON-RAMP FROM LINCOLN Ave CLOSED
DETOUR: TAKE WB LINCOLN Ave, TURN RIGHT ONTO NB EUCLID St, TURN LEFT ONTO NB Rte 5 ON-RAMP



TRAFFIC HANDLING PLAN

NO SCALE

TH-8

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN BRANCH I

FUNCTIONAL SUPERVISOR: ADEL MALEK
CALCULATED-DESIGNED BY: LAWRENCE LE
CHECKED BY: LAWRENCE LE
REVISED BY: L. LE 10/14/09
DATE REVISED: L. LE 10/14/09

LAST REVISION 10-23-09
DATE PLOTTED => 18-FEB-2010
TIME PLOTTED => 11:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	12	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

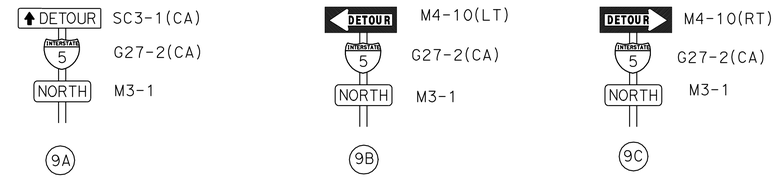
REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/09 CIVIL STATE OF CALIFORNIA

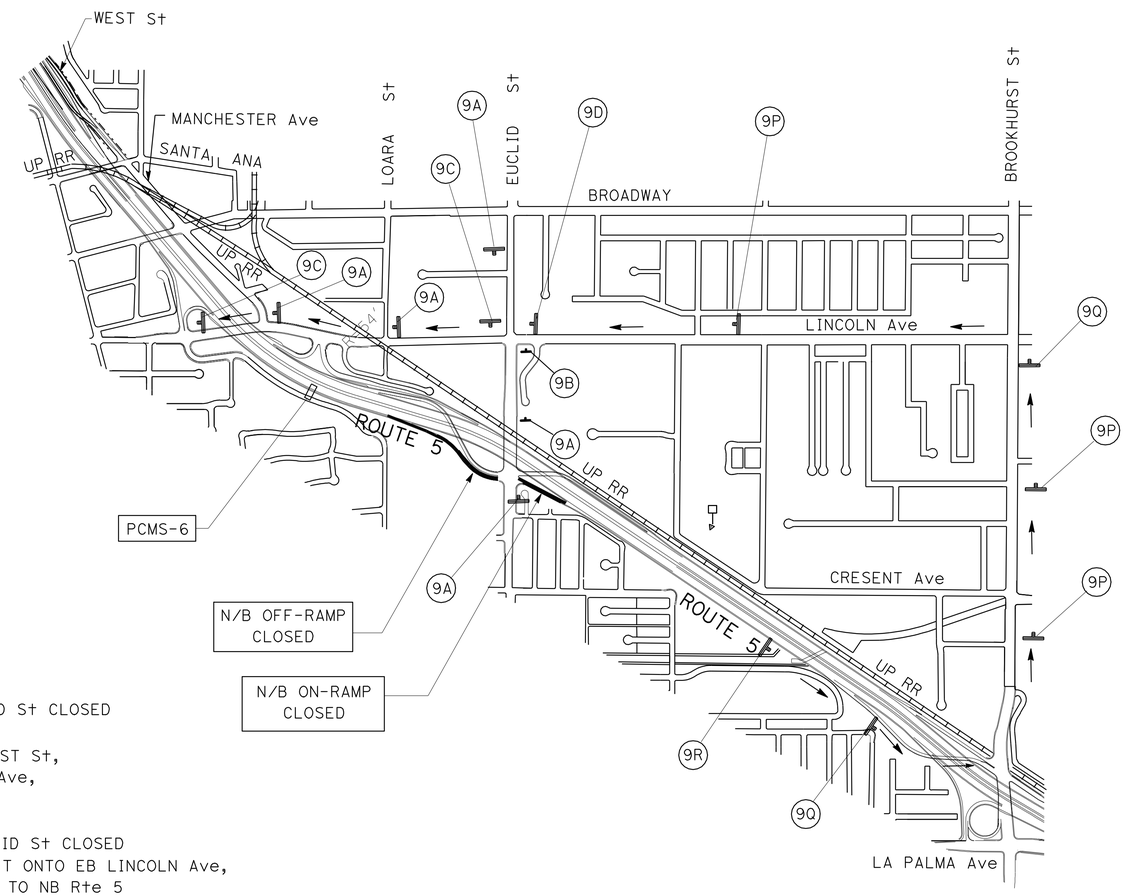
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

DURING NB Rte 5 OFF-RAMP TO EUCLID St CLOSURE, PCMS-6 SHOULD DISPLAY:

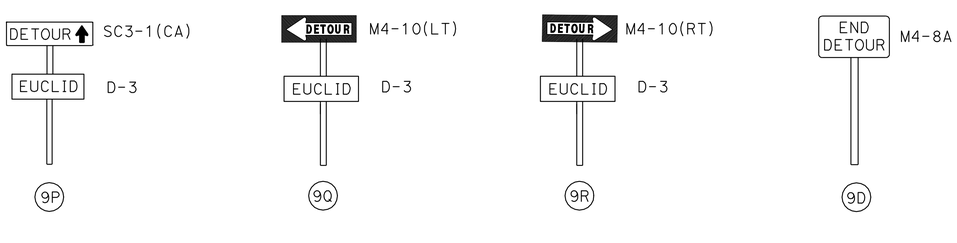
EUCLID EXIT CLOSED	USE BROOKHURST EXIT
1ST FRAME	2ND FRAME





CLOSURE: NB Rte 5 OFF-RAMP TO EUCLID St CLOSED
DETOUR: TAKE BROOKHURST EXIT,
TURN LEFT ONTO SB BROOKHURST St,
TURN LEFT ONTO EB LINCOLN Ave,
GO STRAIGT TO EUCLID St

CLOSURE: NB Rte 5 ON-RAMP FROM EUCLID St CLOSED
DETOUR: TAKE SB EUCLID St, TURN LEFT ONTO EB LINCOLN Ave,
TURN RIGHT AT LOOP ON-RAMP TO NB Rte 5



TRAFFIC HANDLING PLAN

NO SCALE

TH-9

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY

10/14/09	L. LE	LAWRENCE LE
10/14/09	L. LE	LAWRENCE LE
REVISED BY	DATE REVISED	
CALCULATED-DESIGNED BY	CHECKED BY	
FUNCTIONAL SUPERVISOR	ADEL MALEK	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN BRANCH I

LAST REVISION 10-23-09 | DATE PLOTTED => 18-FEB-2010 | TIME PLOTTED => 11:26

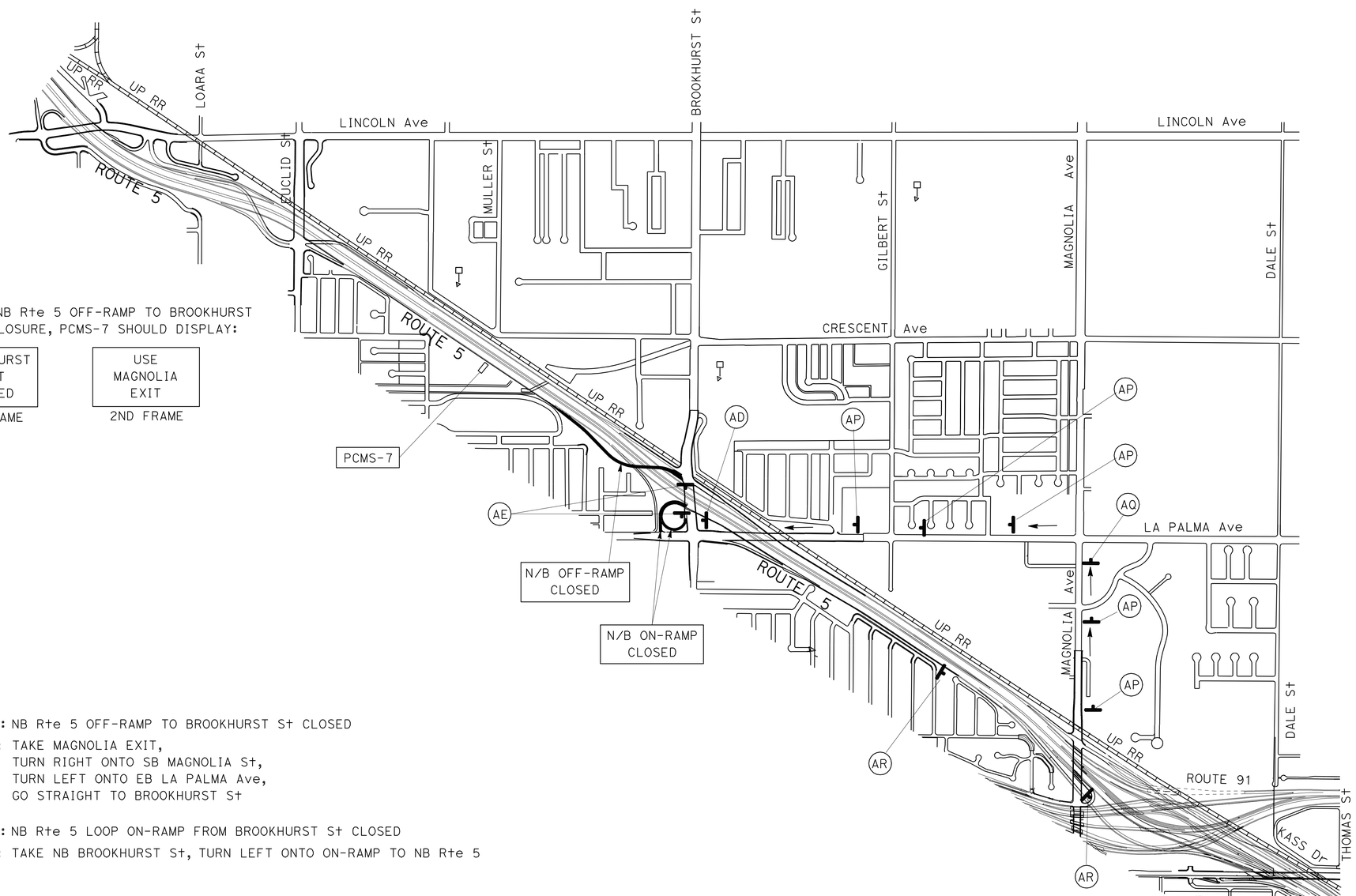
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	13	30

Lawrencele 11-19-09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE LE
No. C 57405
Exp. 12/31/09
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.



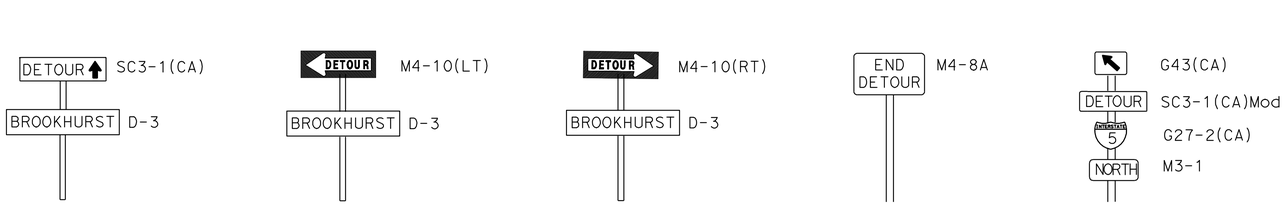
NOTES:

DURING NB Rte 5 OFF-RAMP TO BROOKHURST SREET CLOSURE, PCMS-7 SHOULD DISPLAY:

BROOKHURST EXIT CLOSED	USE MAGNOLIA EXIT
1ST FRAME	2ND FRAME

CLOSURE: NB Rte 5 OFF-RAMP TO BROOKHURST St CLOSED
DETOUR: TAKE MAGNOLIA EXIT,
TURN RIGHT ONTO SB MAGNOLIA St,
TURN LEFT ONTO EB LA PALMA Ave,
GO STRAIGHT TO BROOKHURST St

CLOSURE: NB Rte 5 LOOP ON-RAMP FROM BROOKHURST St CLOSED
DETOUR: TAKE NB BROOKHURST St, TURN LEFT ONTO ON-RAMP TO NB Rte 5



TRAFFIC HANDLING PLAN

NO SCALE

TH-10

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN BRANCH I

FUNCTIONAL SUPERVISOR: ADEL MALEK
CALCULATED-DESIGNED BY: LAWRENCE LE
CHECKED BY: LAWRENCE LE
REVISED BY: L. LE
DATE REVISED: 10/14/09
L. LE 10/14/09

LAST REVISION 10-23-09
DATE PLOTTED => 18-FEB-2010
TIME PLOTTED => 11:26

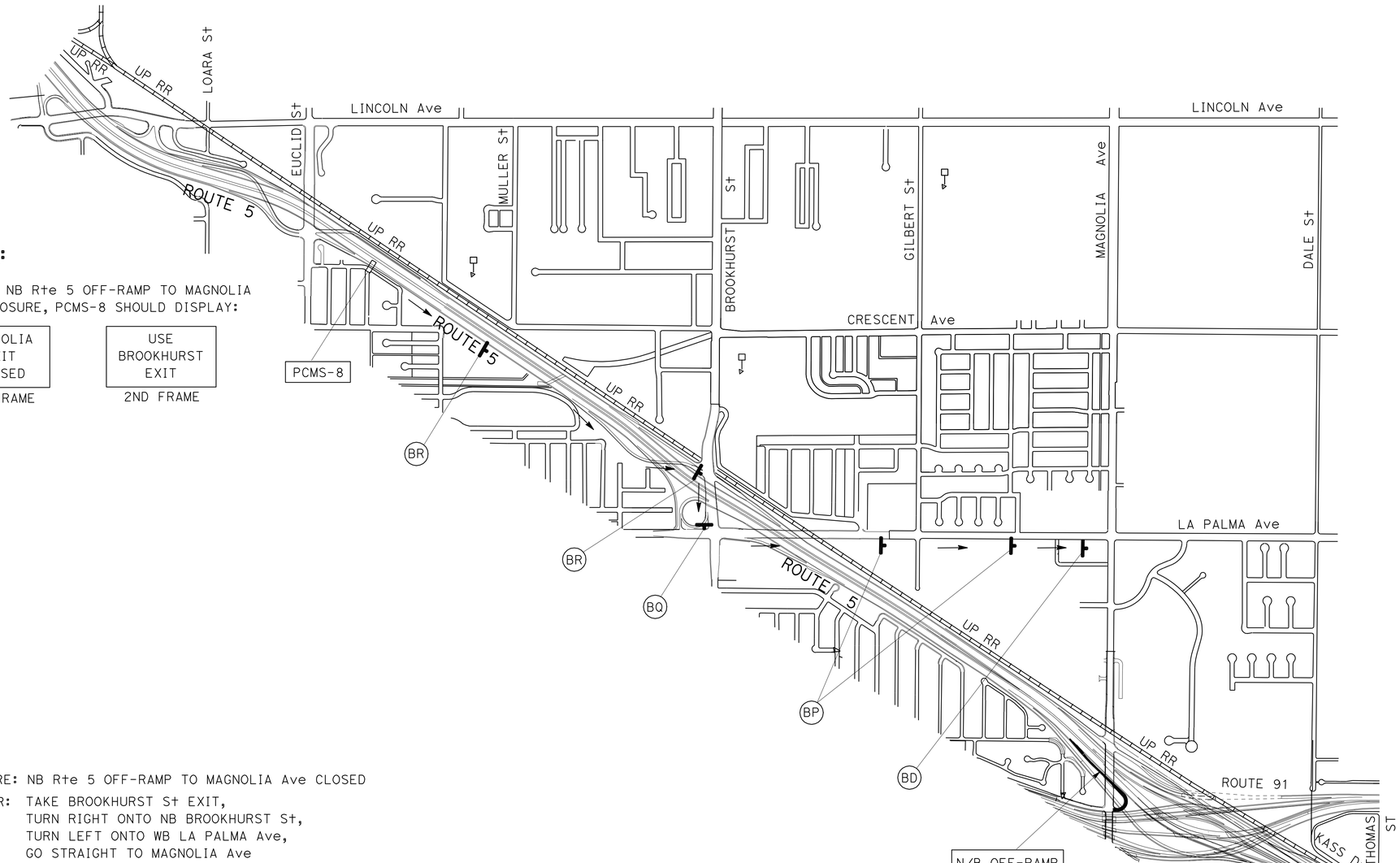
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	14	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE LE
No. C 57405
Exp. 12/31/09
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.



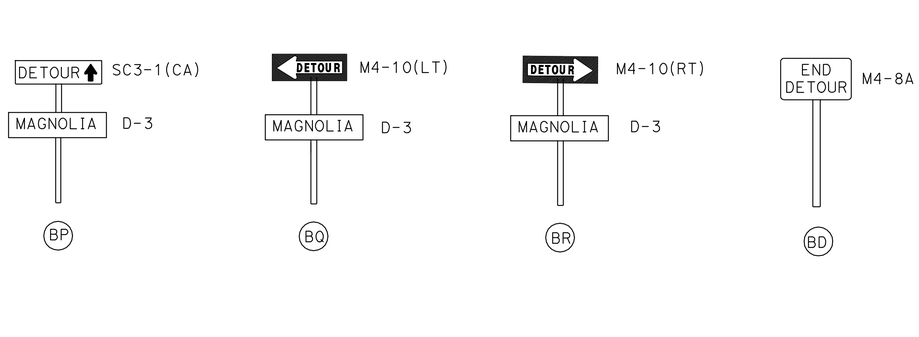
NOTES:

DURING NB Rte 5 OFF-RAMP TO MAGNOLIA Ave CLOSURE, PCMS-8 SHOULD DISPLAY:

MAGNOLIA EXIT CLOSED	USE BROOKHURST EXIT
1ST FRAME	2ND FRAME

CLOSURE: NB Rte 5 OFF-RAMP TO MAGNOLIA Ave CLOSED

DETOUR: TAKE BROOKHURST St EXIT,
TURN RIGHT ONTO NB BROOKHURST St,
TURN LEFT ONTO WB LA PALMA Ave,
GO STRAIGHT TO MAGNOLIA Ave



TRAFFIC HANDLING PLAN

NO SCALE

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY

TH-11

REVISED BY	DATE REVISED
L. LE	10/14/09
L. LE	10/14/09

CALCULATED-DESIGNED BY: LAWRENCE LE
CHECKED BY: LAWRENCE LE

FUNCTIONAL SUPERVISOR: ADEL MALEK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN BRANCH I

LAST REVISION 10-27-09
DATE PLOTTED => 18-FEB-2010
TIME PLOTTED => 11:27

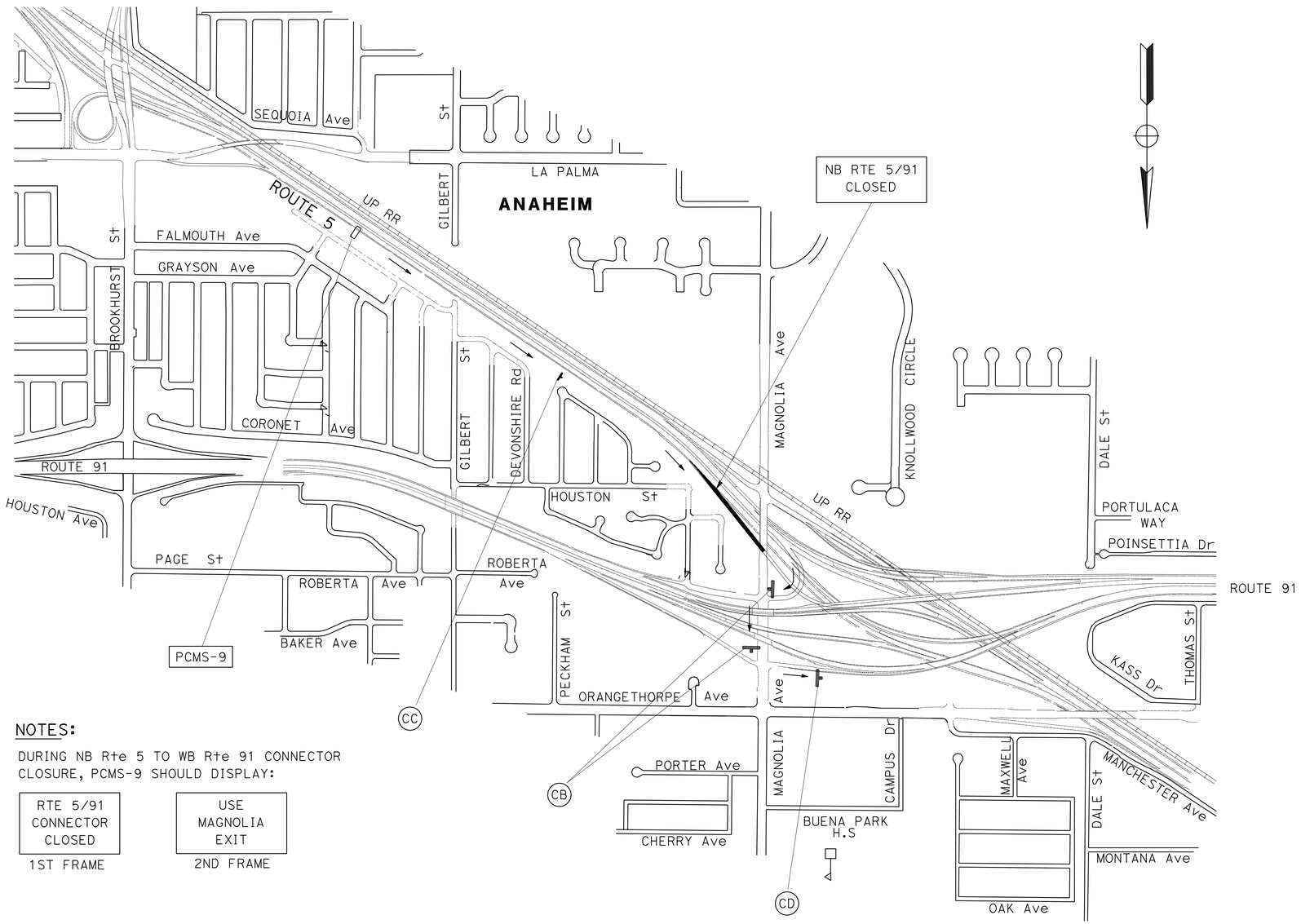
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	15	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE LE
No. C 57405
Exp. 12/31/09
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.



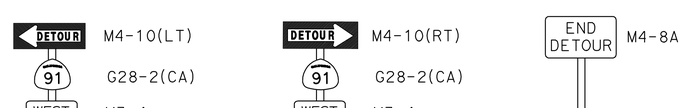
NOTES:

DURING NB Rte 5 TO WB Rte 91 CONNECTOR CLOSURE, PCMS-9 SHOULD DISPLAY:

RTE 5/91 CONNECTOR CLOSED	USE MAGNOLIA EXIT
1ST FRAME	2ND FRAME

CLOSURE: NB Rte 5 TO WB Rte 91 CONNECTOR CLOSED

DETOUR: TAKE MAGLOLIA St EXIT,
TURN LEFT ONTO NB MAGNOLIA Ave,
TURN LEFT ONTO WB Rre 91



THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY

TRAFFIC HANDLING PLAN

NO SCALE

TH-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY
Caltrans® DESIGN BRANCH I	ADEL MALEK	CHECKED BY	DATE REVISED
		LAWRENCE LE	L. LE
		LAWRENCE LE	L. LE
		10/14/09	10/14/09

LAST REVISION DATE PLOTTED => 18-FEB-2010
11-03-09 TIME PLOTTED => 11:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	16	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE LE
No. C 57405
Exp. 12/31/09
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.

CONSTRUCTION AREA SIGNS

SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE (IN x IN)	SIGN MESSAGE	EACH
TH-1	1A	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	4
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	1B	M4-10(LT)	48"x18"	DETOUR (LEFT ARROW)	1
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	1D	M4-8A	24"x18"	END DETOUR	1
TH-2	2A	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	5
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	2B	M4-10(LT)	48"x18"	DETOUR (LEFT ARROW)	1
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	2C	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	2
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	2D	M4-8A	24"x18"	END DETOUR	2
TH-3	3A	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	10
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	3B	M4-10(LT)	48"x18"	DETOUR (LEFT ARROW)	1
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	3C	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	2
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	3D	M4-8A	24"x18"	END DETOUR	1
	4A	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	2
		G28-2(CA)	24"x25"	ROUTE SHIELD (SR-57)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	4C	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	3
		G28-2(CA)	24"x25"	ROUTE SHIELD (SR-57)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	4D	M4-8A	24"x18"	END DETOUR	1
TH-5	5A	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	2
		G28-2(CA)	24"x25"	ROUTE SHIELD (SR-22)	
		M3-4	30"x15"	DIRECTION MARKER (WEST)	

FOR ADDITIONAL NUMBER OF CONSTRUCTION AREA SIGN SEE SHEET CS-1

CONSTRUCTION AREA SIGNS

SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE (IN x IN)	SIGN MESSAGE	EACH
TH-5	5B	M4-10(LT)	48"x18"	DETOUR (LEFT ARROW)	3
		G28-2(CA)	24"x25"	ROUTE SHIELD (SR-22)	
		M3-4	30"x15"	DIRECTION MARKER (WEST)	
	5C	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	2
		G28-2(CA)	24"x25"	ROUTE SHIELD (SR-22)	
		M3-4	30"x15"	DIRECTION MARKER (WEST)	
	5D	M4-8A	24"x18"	END DETOUR	1
TH-6	6P	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	1
		D-3	42"x18"	CHAPMAN	
	6Q	M4-10(LT)	48"x18"	DETOUR (LEFT ARROW)	1
		D-3	42"x18"	CHAPMAN	
	6R	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	1
		D-3	42"x18"	CHAPMAN	
	6D	M4-8A	24"x18"	END DETOUR	1
TH-7	7A	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	2
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	7B	M4-10(LT)	48"x18"	DETOUR (LEFT ARROW)	2
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	7C	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	1
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	7P	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	3
		D-3	42"x18"	KATELLA	
	7Q	M4-10(LT)	48"x18"	DETOUR (LEFT ARROW)	1
		D-3	42"x18"	KATELLA	
	7R	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	2
		D-3	42"x18"	KATELLA	
	7D	M4-8A	24"x18"	END DETOUR	1
TH-8	8A	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	5
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	8B	M4-10(RT)	48"x18"	DETOUR (LEFT ARROW)	2
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	8C	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	1
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	8E	G43(CA)	21"x15"	DIRECTION ARROW (45 LEFT)	2
		SC3-1(CA)Mod	48"x18"	DETOUR (UP ARROW)	
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	8D	M4-8A	24"x18"	END DETOUR	1

FOR ADDITIONAL NUMBER OF CONSTRUCTION AREA SIGN SEE SHEET CS-1

TRAFFIC HANDLING PLAN QUANTITIES

NO SCALE

THQ-1

REVISED BY	DATE REVISED
L. LE	10/14/09
L. LE	10/14/09

CALCULATED-DESIGNED BY: LAWRENCE LE
CHECKED BY: LAWRENCE LE

FUNCTIONAL SUPERVISOR: ADEL MALEK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN BRANCH I

LAST REVISION 10-27-09
DATE PLOTTED => 18-FEB-2010
TIME PLOTTED => 11:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	17	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE LE
No. C 57405
Exp. 12/31/09
CIVIL
STATE OF CALIFORNIA

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CONSTRUCTION AREA SIGNS

SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE (IN x IN)	SIGN MESSAGE	EACH
TH-9	9A	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	5
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	9B	M4-10(LT)	48"x18"	DETOUR (LEFT ARROW)	1
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	9C	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	2
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	9P	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	3
		D-3	36"x18"	EUCLID	
	9Q	M4-10(LT)	48"x18"	DETOUR (LEFT ARROW)	2
		D-3	36"x18"	EUCLID	
	9R	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	1
		D-3	36"x18"	EUCLID	
	9D	M4-8A	24"x18"	END DETOUR	1
TH-10	AP	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	5
		D-3	42"x18"	BROOKHURST	
	AQ	M4-10(LT)	48"x18"	DETOUR (LEFT ARROW)	1
		D-3	42"x18"	BROOKHURST	
	AR	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	2
		D-3	42"x18"	BROOKHURST	
	AE	G43(CA)	21"x15"	DIRECTION ARROW (45 LEFT)	2
		SC3-1(CA)Mod	48"x18"	DETOUR (UP ARROW) °	
		G27-2(CA)	21"x18"	ROUTE SHIELD (I-5)	
		M3-1	30"x15"	DIRECTION MARKER (NORTH)	
	AD	M4-8A	24"x18"	END DETOUR	1
TH-11	BP	SC3-1(CA)	48"x18"	DETOUR (UP ARROW)	2
		D-3	48"x18"	MAGNOLIA	
	BQ	M4-10(LT)	48"x18"	DETOUR (LEFT ARROW)	1
		D-3	48"x18"	MAGNOLIA	
	BR	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	2
		D-3	48"x18"	MAGNOLIA	
	BD	M4-8A	24"x18"	END DETOUR	1
TH-12	CB	M4-10(LT)	48"x18"	DETOUR (LEFT ARROW)	2
		G28-2(CA)	24"x25"	ROUTE SHIELD (SR-91)	
		M3-4	30"x15"	DIRECTION MARKER (WEST)	
	CC	M4-10(RT)	48"x18"	DETOUR (RIGHT ARROW)	1
		G28-2(CA)	24"x25"	ROUTE SHIELD (SR-91)	
		M3-4	30"x15"	DIRECTION MARKER (WEST)	
	BD	M4-8A	24"x18"	END DETOUR	1

FOR ADDITIONAL NUMBER OF CONSTRUCTION AREA SIGN SEE SHEET CS-1

PORTABLE CHANGEABLE MESSAGE SIGN

SHEET No.	PMCS-No.
TH-1	PCMS-1
TH-4	PCMS-2
TH-5	PCMS-3
TH-6	PCMS-4
TH-7	PCMS-5
TH-9	PCMS-6
TH-10	PCMS-7
TH-11	PCMS-8
TH-12	PCMS-9

TRAFFIC HANDLING PLAN QUANTITIES

NO SCALE

THQ-2

REVISED BY	DATE REVISED
L. LE	10/14/09
L. LE	10/14/09

CALCULATED-DESIGNED BY: LAWRENCE LE
CHECKED BY: LAWRENCE LE

FUNCTIONAL SUPERVISOR: ADEL MALEK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN BRANCH I

LAST REVISION 10-28-09 | DATE PLOTTED => 18-FEB-2010 | TIME PLOTTED => 11:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	18	30

REGISTERED CIVIL ENGINEER 01-28-10 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/11 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. NON-REFLECTIVE PAVEMENT MARKERS FOR DETAILS 13 Mod AND DETAIL 14 Mod SHALL BE INSTALLED PRIOR TO APPLYING THERMOPLASTIC TRAFFIC STRIPES
2. EXISTING PAVEMENT DELINEATION SHALL BE REMOVED AND REPLACED AT THE SAME LOCATION.

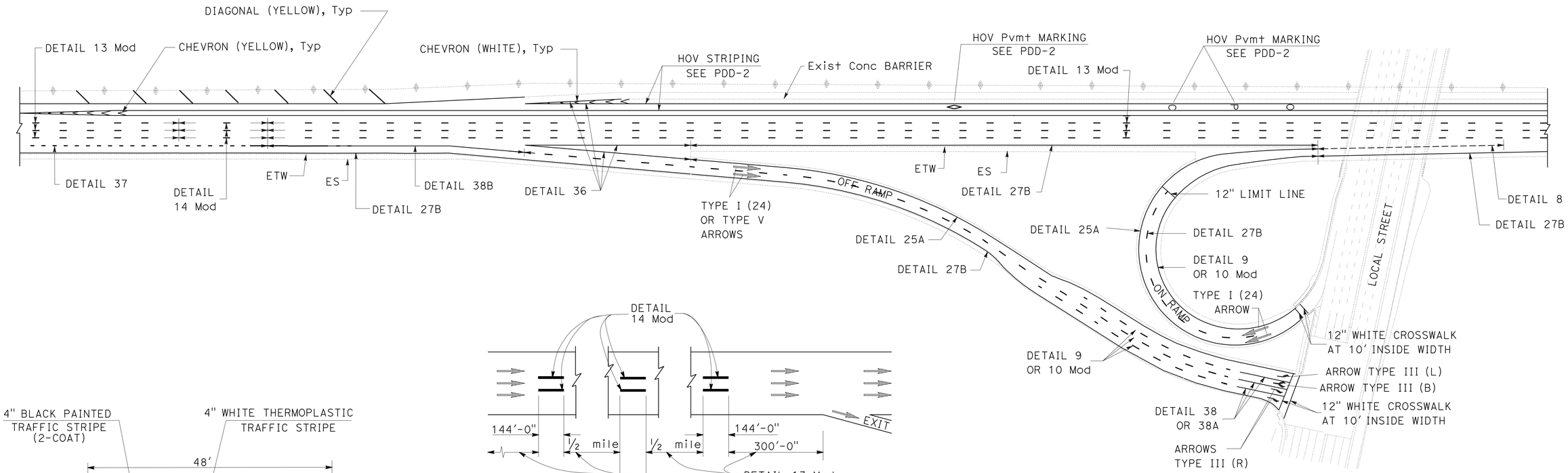
LEGENDS:

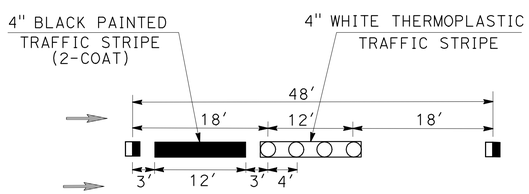
TRAFFIC DIRECTION

CHANGE IN PAVEMENT DELINEATION DETAILS

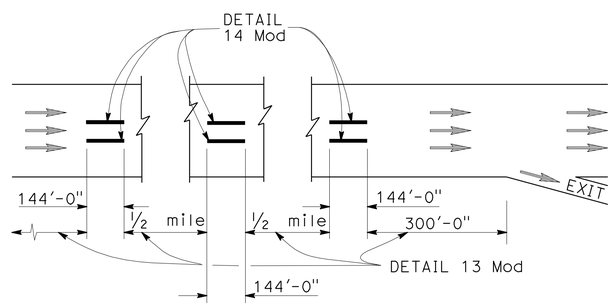
ABBREVIATION:

HOV: HIGH OCCUPANCY VEHICLE

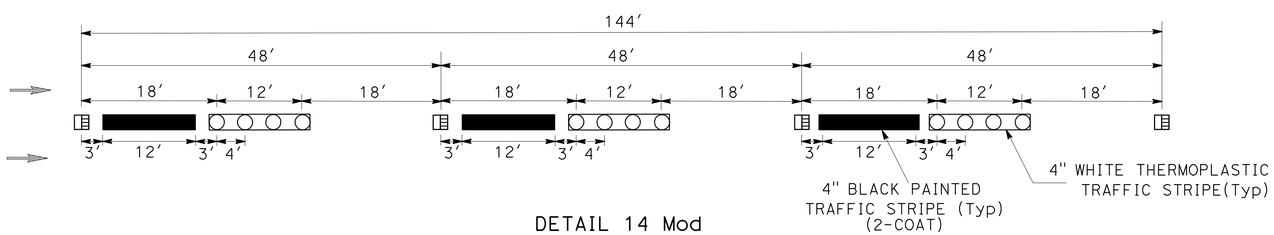




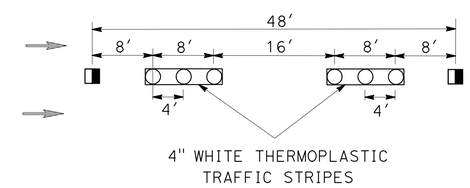
DETAIL 13 Mod



TYPICAL LANE LINE DELINEATION IN ADVANCE OF EXIT RAMP



DETAIL 14 Mod



DETAIL 10 Mod

PAVEMENT DELINEATION DETAILS (TYPICAL)

NO SCALE

PDD-1

DATE	REVISED BY	DATE REVISED
01/28/10	L. LE	01/28/10

CALCULATED-DESIGNED BY: LAWRENCE LE
CHECKED BY: LAWRENCE LE
FUNCTIONAL SUPERVISOR: ADEL MALEK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN BRANCH I

LAST REVISION 01-28-10
DATE PLOTTED => 18-FEB-2010
TIME PLOTTED => 11:27

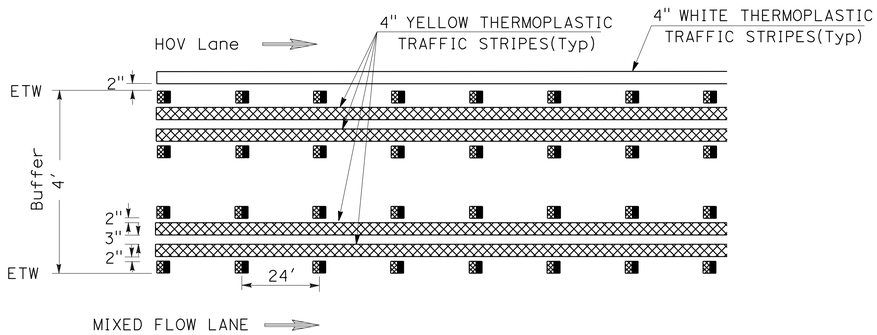
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	19	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

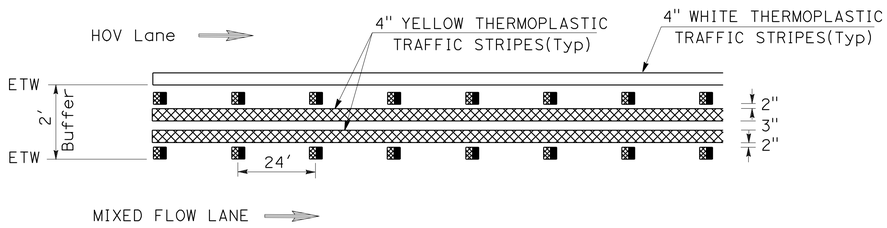
2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/09 CIVIL STATE OF CALIFORNIA

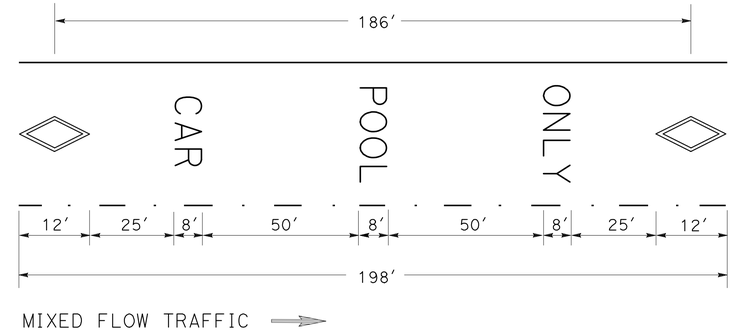
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



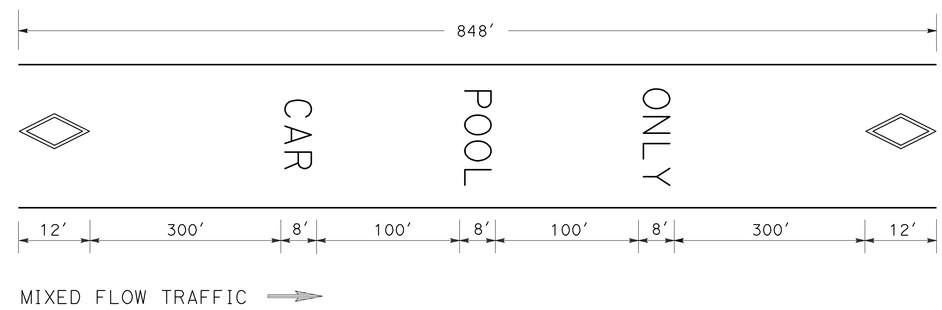
DETAIL A
4' BUFFER



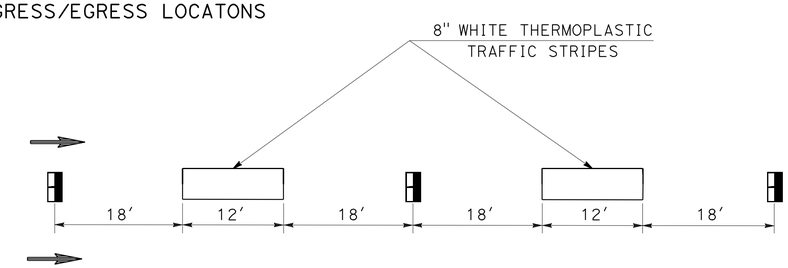
DETAIL B
2' BUFFER



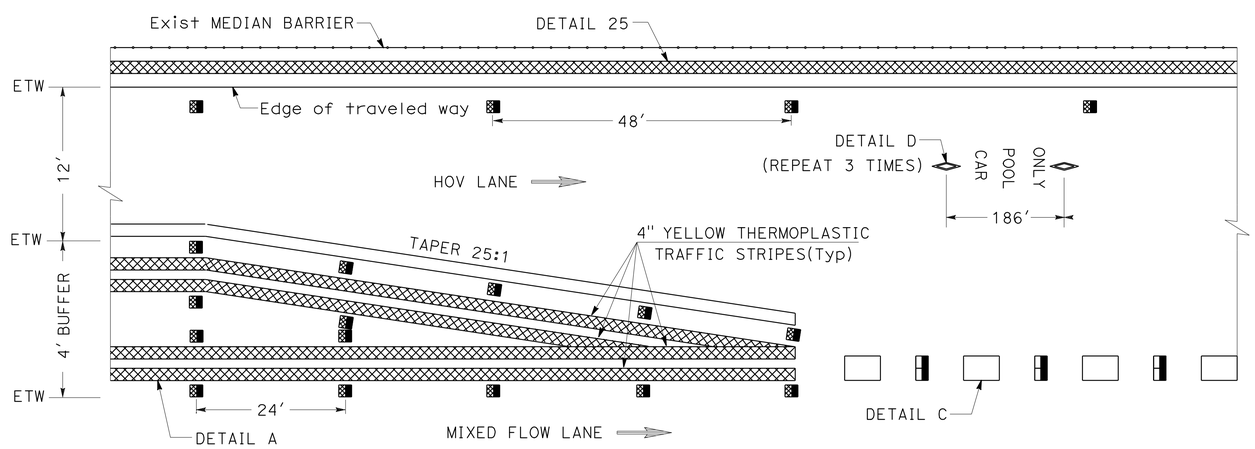
DETAIL D
HOV LANE PAVEMENT MARKING
FOR INGRESS/EGRESS LOCATONS



DETAIL E
HOV LANE PAVEMENT MARKING
EXCEPT AT INGRESS/EGRESS LOCATONS



DETAIL C
INGRESS/EGRESS STRIPING
(USE TYPE C RED-CLEAR REFLECTIVE PAVEMENT MARKERS ADJACENT TO DETAIL 14M IN MIXED FLOW LANES)



BUFFER AND INGRESS/EGRESS STRIPING DETAILS
FOR SINGLE LANE HOV FACILITIES

PAVEMENT DELINEATION DETAILS (HOV STRIPING AND MARKING)

NO SCALE

PDD-2

10/14/09	L. LE	REVISED BY	LAWRENCE LE	CALCULATED-DESIGNED BY	FUNCTIONAL SUPERVISOR
10/14/09	L. LE	DATE REVISED	LAWRENCE LE	CHECKED BY	ADEL MALEK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN BRANCH I

LAST REVISION 10-29-09 | DATE PLOTTED => 18-FEB-2010 | TIME PLOTTED => 11:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	20	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/09 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.

N/B ROUTE 5 MAINLINE QUANTITIES

LOCATION DESCRIPTION	LIMITS	PAINT	THERMOPLASTIC TRAFFIC STRIPE												PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING						
		4"	4"									8"				NON REFLECTIVE	RETROREFLECTIVE								
		TRAFFIC STRIPE (2-COAT) DETAILS 13 Mod, 14 Mod	WHITE (BROKEN 17-7) DETAIL 8,9	WHITE (BROKEN 17-7) DETAIL 10 Mod	WHITE BROKEN (36-12) DETAILs 13 Mod, 14 Mod	SOLID WHITE DETAIL 27B	SOLID WHITE HOV BUFFER	SOLID WHITE INTERSECTION	SOLID YELLOW DETAIL 25 & 25A	SOLID YELLOW HOV BUFFER	SOLID WHITE DETAIL 36, 36A	SOLID WHITE DETAIL 38, 38B	WHITE BROKEN (12-3) DETAIL 37	BROKEN (36-12) INGRESS/EGRESS WHITE-DETAIL C	TYPE A DETAILS 9,10, 10 Mod	TYPE C DETAIL 14 Mod	TYPE G DETAIL 9, 10, 36, 38, 38A	TYPE H DETAIL 25, 25A	ARROWS	CROSSWALK,	LIMIT LINE	SYMBOLS, WORDS	CHEVRON (WHITE)	DIAGONAL (YELLOW)	CHEVRON (YELLOW)
	PM	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT
FOURTH St TO GRAND Ave	31.4 TO 31.5	3100			3100	775					350				258	48	69								
GRAND Ave TO LINCOLN Ave	31.5 TO 32.2	8000	600		8000	2000			900		300		3500		667	60	171	20							
LINCOLN Ave TO 17TH St	32.2 TO 32.6	3875			3875	775			2000		350				323	48	86	43							
17TH St TO BROADWAY	32.6 TO 33.4	16400	300		16400	4100			4100		750		4100		1367	72	346	87							
BROADWAY TO Rte 57	33.4 TO 34.1	11100	300		11100	3700			3700		1100		3700		925	84	234	79							
Rte 57 TO CHAPMAN Ave	34.1 TO 34.7	6481	300		6481	1620			3856		400		3856		540	24	139	82							
CHAPMAN Ave TO STATE COLLEGE Blvd	34.7 TO 35.2	8800			8800	2200					700				733	96	187								
STATE COLLEGE Blvd TO GENE AUTRY WAY	35.2 TO 35.9	11400	300		11400	3800					400		3800		950	84	241		126						
GENE AUTRY WAY TO ANAHEIM Blvd	35.9 TO 36.8	14100	600		14100	4700					1150				1175	96	297								
ANAHEIM Blvd TO HARBOR Blvd	36.8 TO 37.2	6900				2300							2300		575	48	147								
HARBOR Blvd TO BROADWAY	37.2 TO 38.6	30000	900		30000	7500					1900				2500	96	629								
BROADWAY TO EUCLID St OFF-RAMP	38.6 TO 39.3	10200	300		10200	3400					750		3400		850	48	216								
EUCLID St OFF-RAMP TO EUCLID St ON-RAMP	39.3 TO 39.7	6300	300		6300	2100					750				525	48	134								
EUCLID St ON-RAMP TO BROOKHURST St	39.7 TO 40.4	12000			12000	4000							4000		1000	12	253								
BROOKHURST St TO LA PALMA Ave	40.4 TO 40.8	6000	300		6000	2000					1100				500	96	128								
LA PALMA Ave TO MAGNOLIA Ave	40.8 TO 41.7	14400	300		14400	4800					400		4800		1200	12	303								
MAGNOLIA Ave TO ORANGETHORPE Ave	41.7 TO 42.5	11040	600		11040	3680					1500				920	96	233		252						
SUB-TOTAL		180096	5100		173196	53450			14556		11900		33456		15008	1068	3813	311	378						
SUB-TOTAL (THIS SHEET)		180096	5100		173196	68006					11900		33456		15008	5192			378						

PAVEMENT DELINEATION QUANTITIES

NO SCALE

PDQ-1

LAWRENCE LE	10/14/09	L. LE	10/14/09
LAWRENCE LE		L. LE	
CALCULATED-DESIGNED BY		REVISED BY	
CHECKED BY		DATE REVISED	
FUNCTIONAL SUPERVISOR			
ADEL MALEK			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN BRANCH I

LAST REVISION 10-29-09 | DATE PLOTTED => 18-FEB-2010 | TIME PLOTTED => 11:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	21	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/09 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.

N/B ROUTE 5 HOV-LANE QUANTITIES

LOCATION DESCRIPTION	LIMITS	PAINT	THERMOPLASTIC TRAFFIC STRIPE												PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING						
		4"	4"									8"				NON REFLECTIVE	RETROREFLECTIVE								
		TRAFFIC STRIPE (2-COAT) DETAILS 13 Mod, 14 Mod	WHITE (BROKEN 17-7) DETAIL 8,9	WHITE (BROKEN 17-7) DETAIL 10 Mod	WHITE BROKEN (36-12) DETAILS 13 Mod, 14 Mod	SOLID WHITE DETAIL 27B	SOLID WHITE HOV BUFFER	SOLID WHITE INTERSECTION	SOLID YELLOW DETAIL 25 & 25A	SOLID YELLOW HOV BUFFER	SOLID WHITE DETAIL 36, 36A	SOLID WHITE DETAIL 38, 38B	WHITE BROKEN (12-3) DETAIL 37	BROKEN (36-12) INGRESS/EGRESS WHITE-DETAIL C	TYPE A DETAILS 9,10, 10 Mod	TYPE C DETAIL 14 Mod	TYPE G DETAIL 9, 10, 36, 38, 38A	TYPE H DETAIL 25, 25A	ARROWS	CROSSWALK,	LIMIT LINE	SYMBOLS, WORDS	CHEVRON (WHITE)	CHEVRON (YELLOW)	DIAGONAL (YELLOW)
	PM	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT
FROM GRAND Ave TO LINCOLN Ave	31.4 TO 32				1975		3375		3375	13500	400				165		43	355	126			148		140	1390
FROM LINCOLN Ave TO SANTA ANA RIVER	32 TO 34.4					12500			12500		400							262				74			
FROM SANTA ANA RIVER TO GENE AUTRY WAY	34.4 TO 35.9						7956	1172	7956	31824	1500							831				222	300		
FROM GENE AUTRY WAY TO KATELLA Ave	35.9 TO 36.2								1500					1500			33	33				148			
FROM KATELLA Ave TO HABOR Blvd	36.2 TO 37.2				1500		5300		5300	21200	1500				125		33	555	126			148			880
FROM HABOR Blvd TO BALL Rd	37.2 TO 37.4								1300					1300			29	29				148			560
FROM BALL Rd TO BROADWAY	37.4 TO 38.6						6100		6100	24400								630				74			2294
FROM BROADWAY TO LINCOLN Ave	38.6 TO 38.8								1300					1300			29	29							448
FROM LINCOLN Ave TO CARBON CREEK Br	38.8 TO 40.4						8300		8300	33200								867				148			2940
FROM CARBON CREEK Br TO LA PALMA Ave	40.4 TO 40.7								1400					1400			31	31				148			525
FROM LA PALMA Ave TO ORANGETHORPE Ave	40.7 TO 41.9						6150		6150	24600								644				148			2188
SUB-TOTAL					3475	12500	37181	1172	55181	148724	3800			5500	290		198	4266	252			1406	300	140	11225
TOTAL (THIS SHEET)					3475	254758					3800			5500	290	4464			13323						

PAVEMENT DELINEATION QUANTITIES

NO SCALE

PDQ-2

CALCULATED-DESIGNED BY	LAWRENCE LE	REVISED BY	L. LE 10/14/09
CHECKED BY	LAWRENCE LE	DATE REVISED	L. LE 10/14/09
FUNCTIONAL SUPERVISOR	ADEL MALEK		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN BRANCH I

LAST REVISION 10-29-09 | DATE PLOTTED => 18-FEB-2010 | TIME PLOTTED => 11:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	22	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/09 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.

RAMP QUANTITIES

LOCATION DESCRIPTION	LIMITS	PAINT	THERMOPLASTIC TRAFFIC STRIPE												PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING						
		4"	4"								8"				NON REFLECTIVE	RETROREFLECTIVE									
		TRAFFIC STRIPE (2-COAT) DETAILS 13 Mod, 14 Mod	WHITE (BROKEN 17-7) DETAIL 8,9	WHITE (BROKEN 17-7) DETAIL 10 Mod	WHITE BROKEN (36-12) DETAILS 13 Mod, 14 Mod	SOLID WHITE DETAIL 27B	SOLID WHITE HOV BUFFER	SOLID WHITE INTERSECTION	SOLID YELLOW DETAIL 25 & 25A	SOLID YELLOW HOV BUFFER	SOLID WHITE DETAIL 36, 36A	SOLID WHITE DETAIL 38, 38B	WHITE BROKEN (12-3) DETAIL 37	BROKEN (36-12) INGRESS/EGRESS WHITE-DETAIL C	TYPE A DETAILS 9,10, 10 Mod	TYPE C DETAIL 14 Mod	TYPE G DETAIL 9, 10, 36, 38, 38A	TYPE H DETAIL 25, 25A	ARROWS	CROSSWALK,	LIMIT LINE	SYMBOLS, WORDS	CHEVRON (WHITE)	CHEVRON (YELLOW)	DIAGONAL (YELLOW)
		LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT
17th St EB LOOP ON-RAMP	FROM CROSSWALK TO LIMIT LINE		300			300		60									10		50		24				
MAIN St NB ON-RAMP	FROM CROSSWALK TO END OF CONCRETE		200			250		50	250								8	12	50	115					
NB I-5 OFF-RAMP TO CHAPMAN Ave	FROM CROSSWALK TO END OF CONCRETE					160			160			320					15	8	126	278					
WB I-5 OFF-RAMP TO KATELLA Ave	FROM EXIT GORE TO CROSSWALK			571		571			600						72		13	51	62	259	49				
KATELLA Ave WB ON-RAMP	FROM CROSSWALK TO LIMIT LINE			1101											138		24			96	24				
LINCOLN Ave EB ON-RAMP	FROM CROSSWALK TO LIMIT LINE			571		571			600						72		13	51	62	259	49				
NB I-5 OFF-RAMP TO EUCLID St	FROM EXIT GORE TO CROSSWALK			806		1415			1114		541	421			101		61	47	385	242					
EUCLID St SB ON-RAMP	FROM CROSSWALK TO LIMIT LINE			592		750			687		259				74		25	30	62	325	25				
NB I-5 OFF-RAMP TO BROOKHURST St	FROM EXIT GORE TO CROSSWALK			1440		1797			1788		541	381			91		71	75	336	170					
BROOKHURST St NB LOOP ON-RAMP	FR CROSSWALK TO ENTRANT GORE			438					1128		319	189			65		81		62	503					
NB I-5 OFF-RAMP TO MAGNOLIA St	FROM CROSSWALK TO END OF CONCRETE			80					260			156			10		18		180	113					
SUB-TOTAL			500	5599		5814		110	6587		1660	1467			623		339	274	1375	2360	171				
TOTAL (THIS SHEET)			6099			12511					3127				623	613			3906						
TOTAL (PDQ-1, PDQ-2, & PDQ-3)		180096	11199		173196	335275					18827		33456	5500	15921	10269			17607						

PAVEMENT DELINEATION QUANTITIES

NO SCALE

PDQ-3

CALCULATED-DESIGNED BY	LAWRENCE LE	REVISED BY	L. LE 10/14/09
CHECKED BY	LAWRENCE LE	DATE REVISED	L. LE 10/14/09
FUNCTIONAL SUPERVISOR	ADEL MALEK		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN BRANCH I

LAST REVISION 10-29-09 | DATE PLOTTED => 18-FEB-2010 | TIME PLOTTED => 11:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	23	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/09 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 QUANTITIES (N/B ROUTE 5 MAINLINE)

LOCATION DESCRIPTION	LIMITS	PAINT	THERMOPLASTIC TRAFFIC STRIPE												PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING						
		4"	4"								8"				NON REFLECTIVE	RETROREFLECTIVE									
		TRAFFIC STRIPE (2-COAT) DETAILS 13 Mod, 14 Mod	SOLID YELLOW DETAIL 25 & 25A	SOLID YELLOW HOV BUFFER	WHITE (BROKEN 17-7) DETAIL 8,9 WHITE	(BROKEN 17-7) DETAIL 10 Mod WHITE	BROKEN (36-12) DETAILs 13 Mod, 14 Mod	SOLID WHITE DETAIL 27B	SOLID WHITE HOV BUFFER	SOLID WHITE INTERSECTION	SOLID WHITE DETAIL 36, 36A	SOLID WHITE DETAIL 38, 38B	WHITE BROKEN (12-3) DETAIL 37	BROKEN (36-12) INGRESS/EGRESS WHITE-DETAIL C	TYPE A DETAILS 9,10, 10 Mod	TYPE C DETAIL 14 Mod	TYPE G DETAIL 9, 10, 36, 38, 38A	TYPE H DETAIL 25, 25A	ARROWS	CROSSWALK,	LIMIT LINE	SYMBOLS, WORDS	CHEVRON (WHITE)	CHEVRON (YELLOW)	DIAGONAL (YELLOW)
	PM	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT
FOURTH St TO GRAND Ave	31.4 TO 31.5						775	775			700				258	48	69								
GRAND Ave TO LINCOLN Ave	31.5 TO 32.2		900		180		2000	2000			600		1400		667	60	171	20							
LINCOLN Ave TO 17TH St	32.2 TO 32.6		2000				956	775			700				323	48	86	43							
17TH St TO BROADWAY	32.6 TO 33.4		4100		90		4100	4100			1500		1640		1367	72	346	87							
BROADWAY TO Rte 57	33.4 TO 34.1		3700		90		2775	3700			2200		1480		925	84	234	79							
Rte 57 TO CHAPMAN Ave	34.1 TO 34.7		3856		90		1620	1620			800		1543		540	24	139	82							
CHAPMAN Ave TO STATE COLLEGE Blvd	34.7 TO 35.2						2200	2200			1400				733	96	187								
STATE COLLEGE Blvd TO GENE AUTRY WAY	35.2 TO 35.9				90		2850	3800			800		1520		950	84	241		126						
GENE AUTRY WAY TO ANAHEIM Blvd	35.9 TO 36.8				180		3525	4700			2300				1175	96	297								
ANAHEIM Blvd TO HARBOR Blvd	36.8 TO 37.2							2300					920		575	48	147								
HARBOR Blvd TO BROADWAY	37.2 TO 38.6				270		7500	7500			3800				2500	96	629								
BROADWAY TO EUCLID St OFF-RAMP	38.6 TO 39.3				90		2550	3400			1500		1360		850	48	216								
EUCLID St OFF-RAMP TO EUCLID St ON-RAMP	39.3 TO 39.7				90		1575	2100			1500				525	48	134								
EUCLID St ON-RAMP TO BROOKHURST St	39.7 TO 40.4						3000	4000					1600		1000	12	253								
BROOKHURST St TO LA PALMA Ave	40.4 TO 40.8				90		1500	2000			2200				500	96	128								
LA PALMA Ave TO MAGNOLIA Ave	40.8 TO 41.7				90		3600	4800			800		1920		1200	12	303								
MAGNOLIA Ave TO ORANGETHORPE Ave	41.7 TO 42.5				180		2760	3680			3000				920	96	233		252						
SUB-TOTAL			14556		1530		43286	53450			23800		13383		15008	1068	3813	311	378						
SUB-TOTAL (THIS SHEET)			14556		135449										20200				378						

PAVEMENT DELINEATION QUANTITIES (REMOVE)

NO SCALE

PDQ-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN BRANCH I

FUNCTIONAL SUPERVISOR: ADEL MALEK

CALCULATED-DESIGNED BY: L. LE 10/14/09
CHECKED BY: L. LE 10/14/09

REVISED BY: LAWRENCE LE
DATE REVISED: LAWRENCE LE

LAST REVISION 10-29-09
DATE PLOTTED => 18-FEB-2010
TIME PLOTTED => 11:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	24	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/09 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 QUANTITIES (N/B ROUTE 5 HOV LANES)

LOCATION DESCRIPTION	LIMITS	PAINT	THERMOPLASTIC TRAFFIC STRIPE												PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING						
		4"	4"								8"				NON REFLECTIVE	RETROREFLECTIVE									
		TRAFFIC STRIPE (2-COAT) DETAILS 13 Mod, 14 Mod	SOLID YELLOW DETAIL 25 & 25A	SOLID YELLOW HOV BUFFER	WHITE (BROKEN 17-7) DETAIL 8,9	WHITE (BROKEN 17-7) DETAIL 10 Mod	WHITE BROKEN (36-12) DETAILS 13 Mod, 14 Mod	SOLID WHITE DETAIL 27B	SOLID WHITE HOV BUFFER	SOLID WHITE INTERSECTION	SOLID WHITE DETAIL 36, 36A	SOLID WHITE DETAIL 38, 38B	WHITE BROKEN (12-3) DETAIL 37	BROKEN (36-12) INGRESS/EGRESS WHITE-DETAIL C	TYPE A DETAILS 9,10, 10 Mod	TYPE C DETAIL 14 Mod	TYPE G DETAIL 9, 10, 36, 38, 38A	TYPE H DETAIL 25, 25A	ARROWS	CROSSWALK,	LIMIT LINE	SYMBOLS, WORDS	CHEVRON (WHITE)	CHEVRON (YELLOW)	DIAGONAL (YELLOW)
	PM	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT
FROM GRAND Ave TO LINCOLN Ave	31.4 TO 32		3375	13500			494		3375		800				165		43	355	126			148		140	1390
FROM LINCOLN Ave TO SANTA ANA RIVER	32 TO 34.4		12500					12500			800							262				74			
FROM SANTA ANA RIVER TO GENE AUTRY WAY	34.4 TO 35.9		7956	31824					7956	1172	3000							831				222	300		
FROM GENE AUTRY WAY TO KATELLA Ave	35.9 TO 36.2		1500											375			33	33				148			
FROM KATELLA Ave TO HABOR Blvd	36.2 TO 37.2		5300	21200			375		5300		3000				125		33	555	126			148			880
FROM HABOR Blvd TO BALL Rd	37.2 TO 37.4		1300											325			29	29				148			560
FROM BALL Rd TO BROADWAY	37.4 TO 38.6		6100	24400					6100									630				74			2294
FROM BROADWAY TO LINCOLN Ave	38.6 TO 38.8		1300											325			29	29							448
FROM LINCOLN Ave TO CARBON CREEK Br	38.8 TO 40.4		8300	33200					8300									867				148			2940
FROM CARBON CREEK Br TO LA PALMA Ave	40.4 TO 40.7		1400											350			31	31				148			525
FROM LA PALMA Ave TO ORANGETHORPE Ave	40.7 TO 41.9		6150	24600					6150									644				148			2188
SUB-TOTAL			55181	148724			869	12500	37181	1172	7600			1375	290		198	4266	252			1406	300	140	11225
TOTAL (THIS SHEET)			203905		60697										4754				1958					11365	

PAVEMENT DELINEATION QUANTITIES (REMOVE)

NO SCALE

PDQ-5

CALCULATED-DESIGNED BY	LAWRENCE LE	REVISED BY	L. LE
CHECKED BY	LAWRENCE LE	DATE REVISED	10/14/09
FUNCTIONAL SUPERVISOR	ADEL MALEK		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN BRANCH I

LAST REVISION 10-29-09 | DATE PLOTTED => 18-FEB-2010 | TIME PLOTTED => 11:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	25	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/09 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 QUANTITIES (N/B ROUTE 5 RAMPS)

LOCATION DESCRIPTION	LIMITS	PAINT	THERMOPLASTIC TRAFFIC STRIPE												PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING						
		4"	4"									8"				NON REFLECTIVE	RETROREFLECTIVE								
		TRAFFIC STRIPE (2-COAT) DETAILS 13 Mod, 14 Mod	SOLID YELLOW DETAIL 25 & 25A	SOLID YELLOW HOV BUFFER	WHITE (BROKEN 17-7) DETAIL 8,9	WHITE (BROKEN 17-7) DETAIL 10 Mod	WHITE BROKEN (36-12) DETAILS 13 Mod, 14 Mod	SOLID WHITE DETAIL 27B	SOLID WHITE HOV BUFFER	SOLID WHITE INTERSECTION	SOLID WHITE DETAIL 36, 36A	SOLID WHITE DETAIL 38, 38B	WHITE BROKEN (12-3) DETAIL 37	BROKEN (36-12) INGRESS/EGRESS WHITE-DETAIL C	TYPE A DETAILS 9,10, 10 Mod	TYPE C DETAIL 14 Mod	TYPE G DETAIL 9, 10, 36, 38, 38A	TYPE H DETAIL 25, 25A	ARROWS	CROSSWALK,	LIMIT LINE	SYMBOLS, WORDS	CHEVRON (WHITE)	CHEVRON (YELLOW)	DIAGONAL (YELLOW)
		LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT
17th ST EB LOOP ON-RAMP	FROM CROSSWALK TO LIMIT LINE																10		50		24				
MAIN St NB ON-RAMP	FROM CROSSWALK TO END OF CONCRETE		250		200			250		50							8	12	50	115					
NB I-5 OFF-RAMP TO CHAPMAN Ave	FROM CROSSWALK TO END OF CONCRETE		160					160				640					15	8	126	278					
WB I-5 OFF-RAMP TO KATELLA Ave	FROM EXIT GORE TO CROSSWALK		300			120		300							72		13	51	62	259	49				
KATELLA Ave WB ON-RAMP	FROM CROSSWALK TO LIMIT LINE														138		24			96	24				
LINCOLN Ave EB ON-RAMP	FROM CROSSWALK TO LIMIT LINE		600					571							72		13	51	62	259	49				
NB I-5 OFF-RAMP TO EUCLID St	FROM EXIT GORE TO CROSSWALK		1114					1415			1082	842			101		61	47	385	242					
EUCLID St SB ON-RAMP	FROM CROSSWALK TO LIMIT LINE		687					750			518				74		25	30	62	325	25				
NB I-5 OFF-RAMP TO BROOKHURST St	FROM EXIT GORE TO CROSSWALK		1788			420		1797			1082	762			91		71	75	336	170					
BROOKHURST St NB LOOP ON-RAMP	FR CROSSWALK TO ENTRANT GORE		1128			128					638	378			65		81		62	503					
NB I-5 OFF-RAMP TO MAGNOLIA St	FROM CROSSWALK TO END OF CONCRETE		260			24						312			10		18		180	113					
SUB-TOTAL			6287		200	692		5243		50	3320	2934			623		339	274	1375	2360	171				
TOTAL (THIS SHEET)			6287	12439											1236				3906						
TOTAL (PDQ-1, PDQ-2, & PDQ-3)			224748	208585											26190				6242					11365	

PAVEMENT DELINEATION QUANTITIES (REMOVE)

NO SCALE

PDQ-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans DESIGN BRANCH I	FUNCTIONAL SUPERVISOR ADEL MALEK	CALCULATED-DESIGNED BY LAWRENCE LE
CHECKED BY LAWRENCE LE	REVISED BY L. LE	DATE REVISED 10/14/09	DATE REVISED 10/14/09

LAST REVISION 10-29-09 DATE PLOTTED => 18-FEB-2010 TIME PLOTTED => 11:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5	31.4/42.5	26	30

REGISTERED CIVIL ENGINEER 11-19-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LAWRENCE LE No. C 57405 Exp. 12/31/09 CIVIL STATE OF CALIFORNIA

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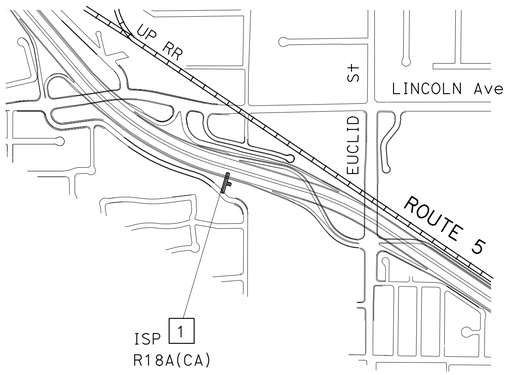

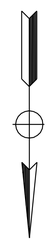

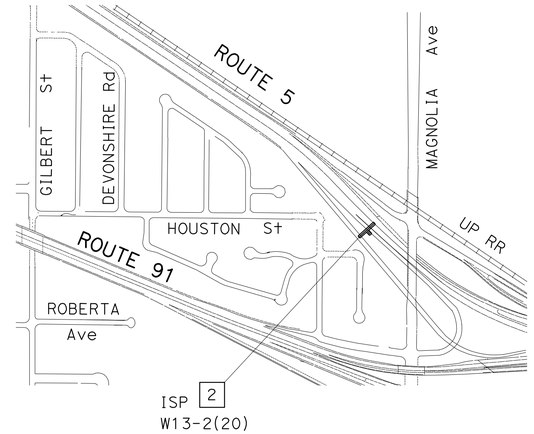

ABBREVIATION:

ISP INSTALL SIGN PANEL ON EXISTING POST

LEGEND:

[X] SIGN IDENTIFICATION NUMBER

ROADSIDE SIGN QUANTITIES

SIGN No. [X]	SIGN LOCATION	SIGN CODE	PANEL SIZE (inch x inch)	INSTALL ROADSIDE SIGN PANEL ON EXISTING POST	REMARK
				EA	
1	NB Rte 5 OFF-RAMP TO EUCLID St	R18A(CA)	66x48	1	
2	NB Rte 5 OFF-RAMP TO MAGNOLIA Ave	W13-2(20)	36x48	1	20 MILES PER HOUR
	TOTAL			2	

MATERIAL SUMMARY (CONTRACTOR FURNISHED SIGNS)

SIGN No. [X]	SIGN LOCATION	SIGN CODE	PANEL SIZE	SIGN AREA (SQFT)	SINGLE FACED	BACKGROUND		LEGENDS		PROTECTIVE FILM		ROADSIDE SIGN PANEL FURNISH SINGLE-SHEET	
						SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	STANDARD	PREMIUM	FRAMED ALUMINUM 0.063 inch	UNFRAMED ALUMINUM 0.080 inch
												SQFT	SQFT
1	NB Rte 5 OFF-RAMP TO EUCLID St	R18A(CA)	66"x48"	22	X	W	III	B	Non	X		22	
2	NB Rte 5 OFF-RAMP TO MAGNOLIA Ave	W13-2(40)	36"x48"	12	X	Y	IV	B	Non		X		12
	TOTAL											22	12

LEGENDS:

B = BLACK
W = WHITE
Y = YELLOW
Non = NON REFLECTIVE

SIGN PLAN AND QUANTITIES

NO SCALE

S-1

THIS PLAN ACCURATE FOR SIGN WORK ONLY

CALCULATED-DESIGNED BY	LAWRENCE LE	L. LE	10/14/09
CHECKED BY	LAWRENCE LE	L. LE	10/14/09
FUNCTIONAL SUPERVISOR	ADEL MALEK	REVISED BY	DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN BRANCH I

LAST REVISION 11-16-09 | DATE PLOTTED => 18-FEB-2010 | TIME PLOTTED => 11:28

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	5	31.4/42.5	27	30

REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald E. Howe No. C46402 Exp. 3-31-09 CIVIL STATE OF CALIFORNIA

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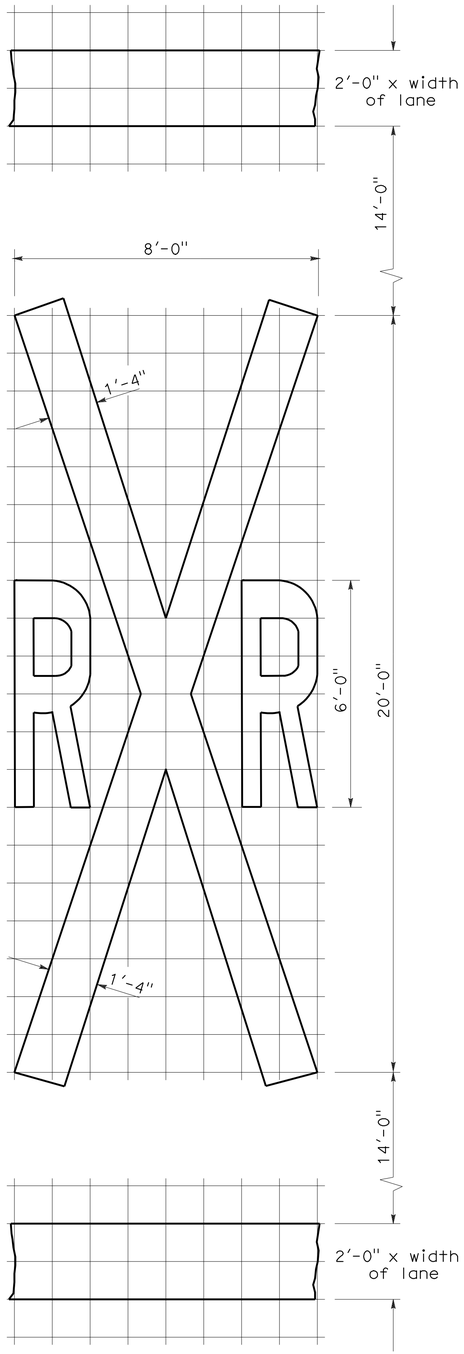
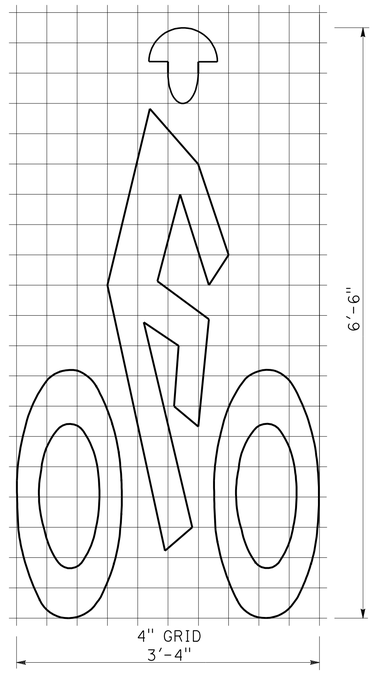
To accompany plans dated 2-1-10



1'-0" GRID
A=70 sq ft ✳

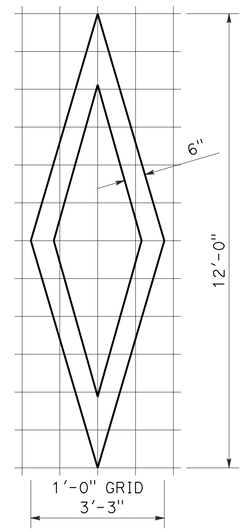
RAILROAD CROSSING SYMBOL

✳70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



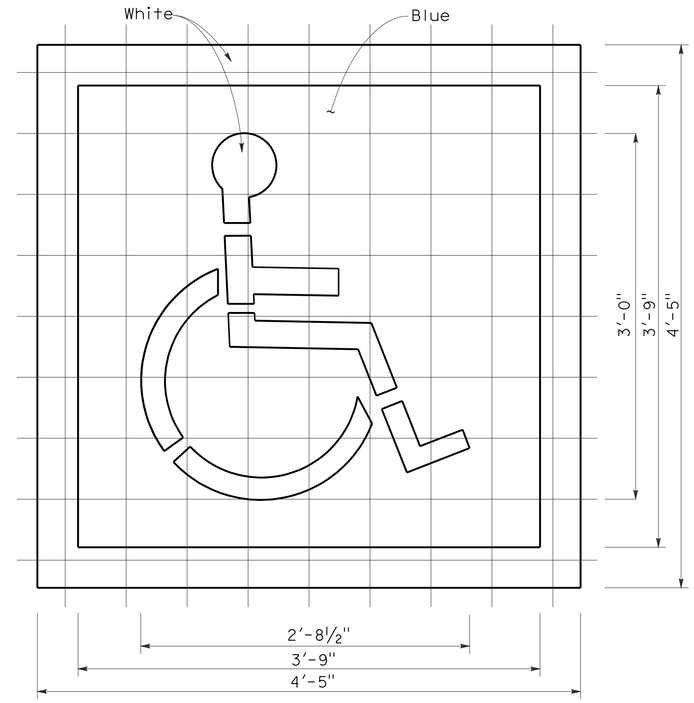
A=7 sq ft

BIKE LANE SYMBOL



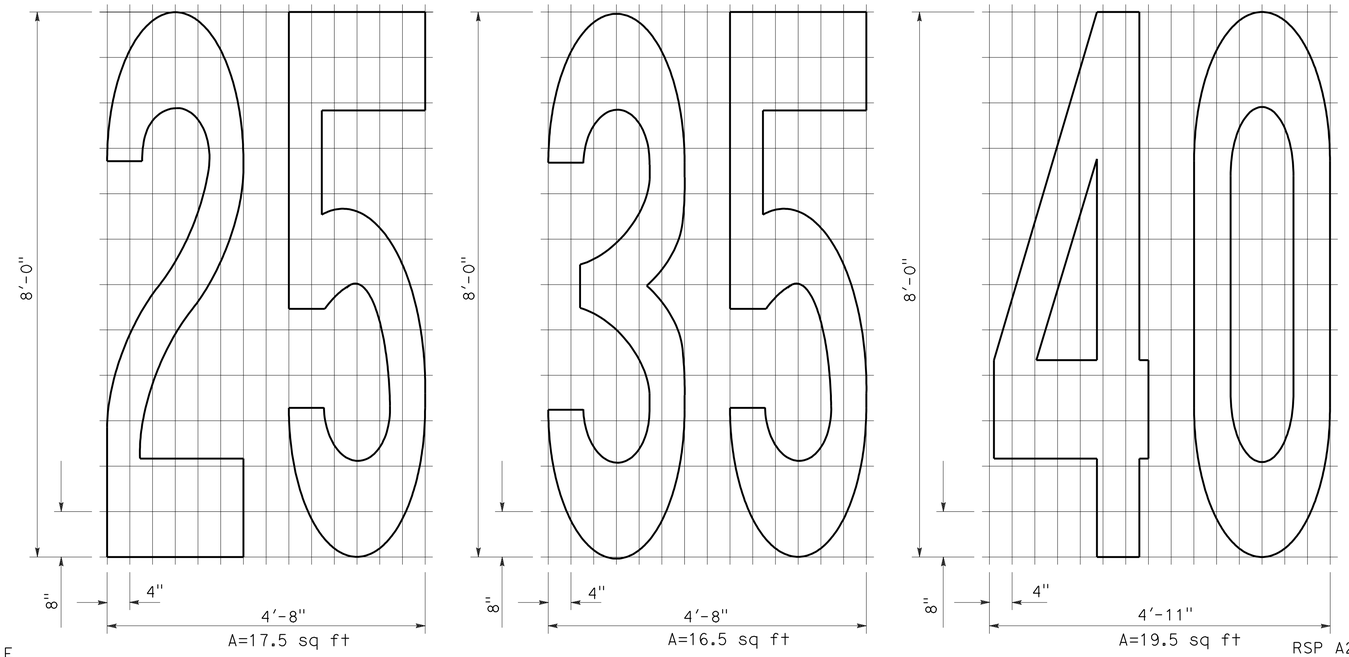
A=11 sq ft

DIAMOND SYMBOL



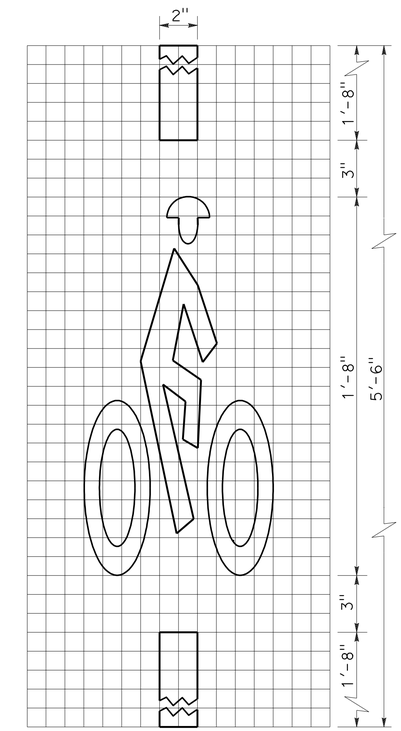
6" GRID
A (White) =9 sq ft
A (Blue) =14 sq ft

INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



A=17.5 sq ft A=16.5 sq ft A=19.5 sq ft

NUMERALS



A=2 sq ft

BICYCLE LOOP DETECTOR SYMBOL

NOTE:

1. Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

5-27-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	5	31.4/42.5	28	30

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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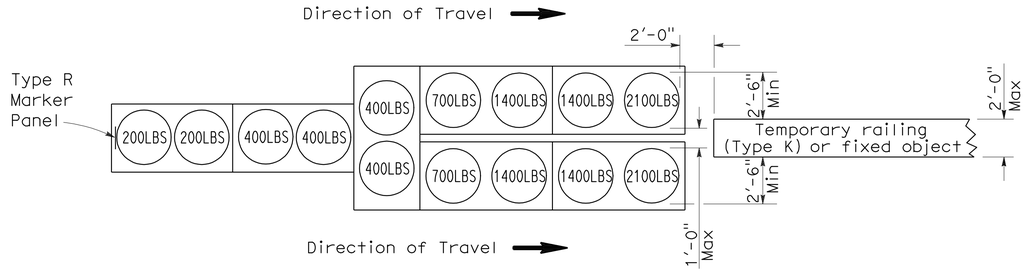
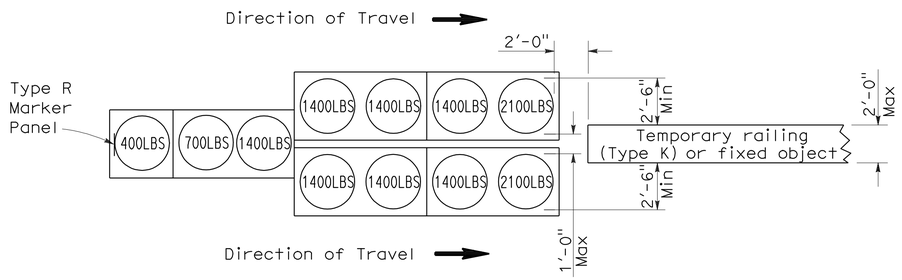
To accompany plans dated 2-1-10



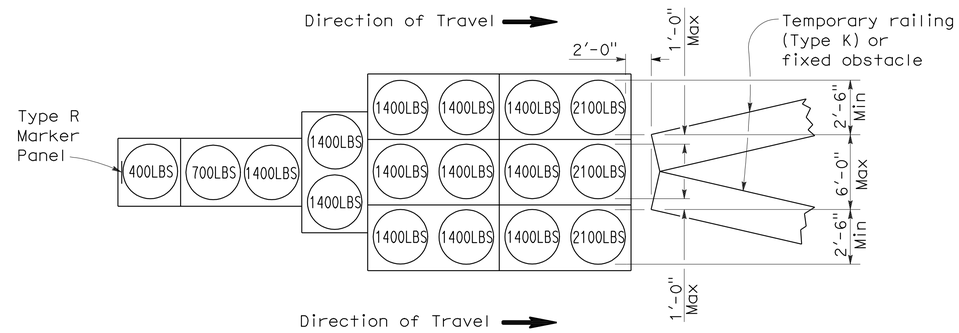
ARRAY 'TU14'

Approach speed 45 mph or more



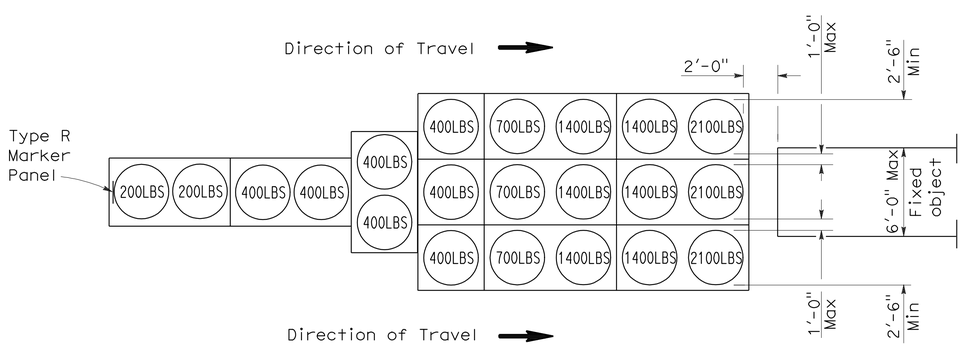
ARRAY 'TU11'

Approach speed less than 45 mph



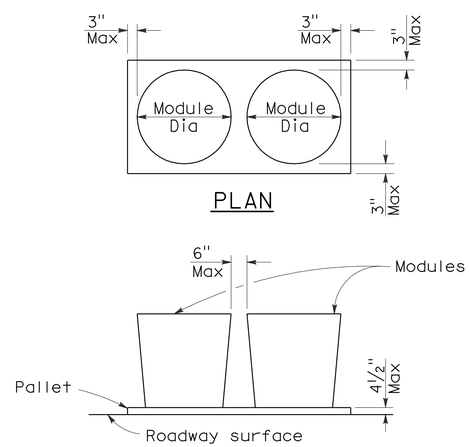
ARRAY 'TU17'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more



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
12	Ora	5	31.4/42.5	29	30

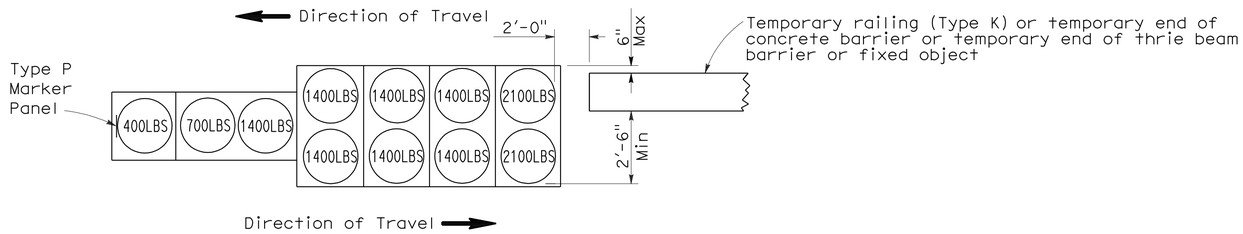
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

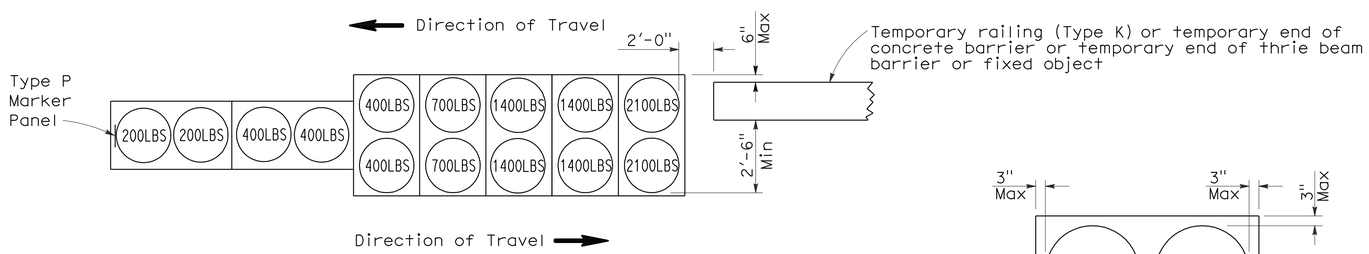
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-1-10



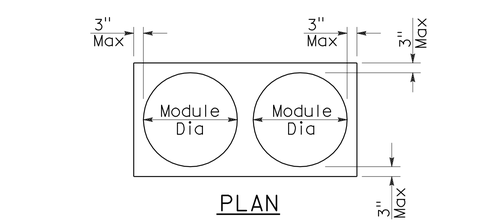
ARRAY 'TB11'

Approach speed less than 45 mph

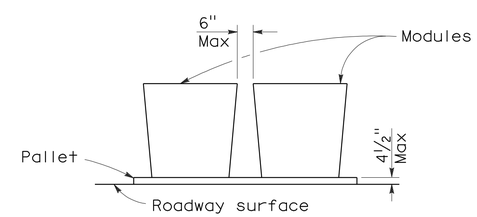


ARRAY 'TB14'

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	5	31.4/42.5	30	30

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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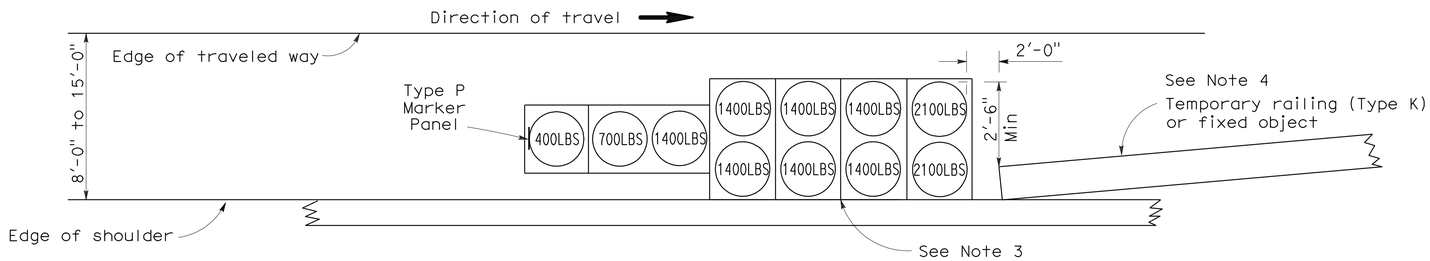
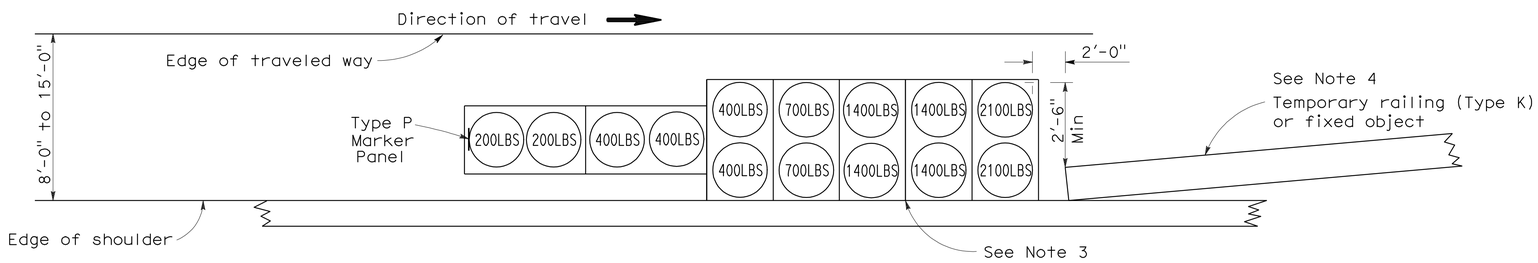
To accompany plans dated 2-1-10



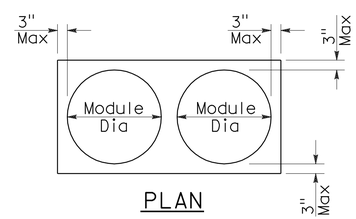
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

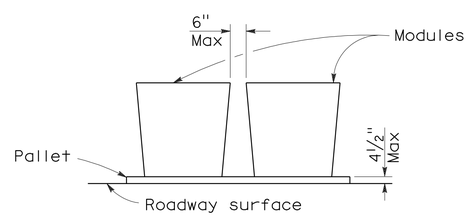


ARRAY 'TS14'

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