Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	1	53

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS
3-5	MOTORIST INFORMATION PLANS
6-22	STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS
23-35	TRAFFIC HANDLING DETAILS
36-37	TRAFFIC HANDLING QUANTITIES
38	PAVEMENT DELINEATION DETAILS
39	PAVEMENT DELINEATION QUANTITIES
40-46	REVISED STANDARD PLANS

STRUCTURES PLANS

47-53	ROUTE 10 BRIDGES

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

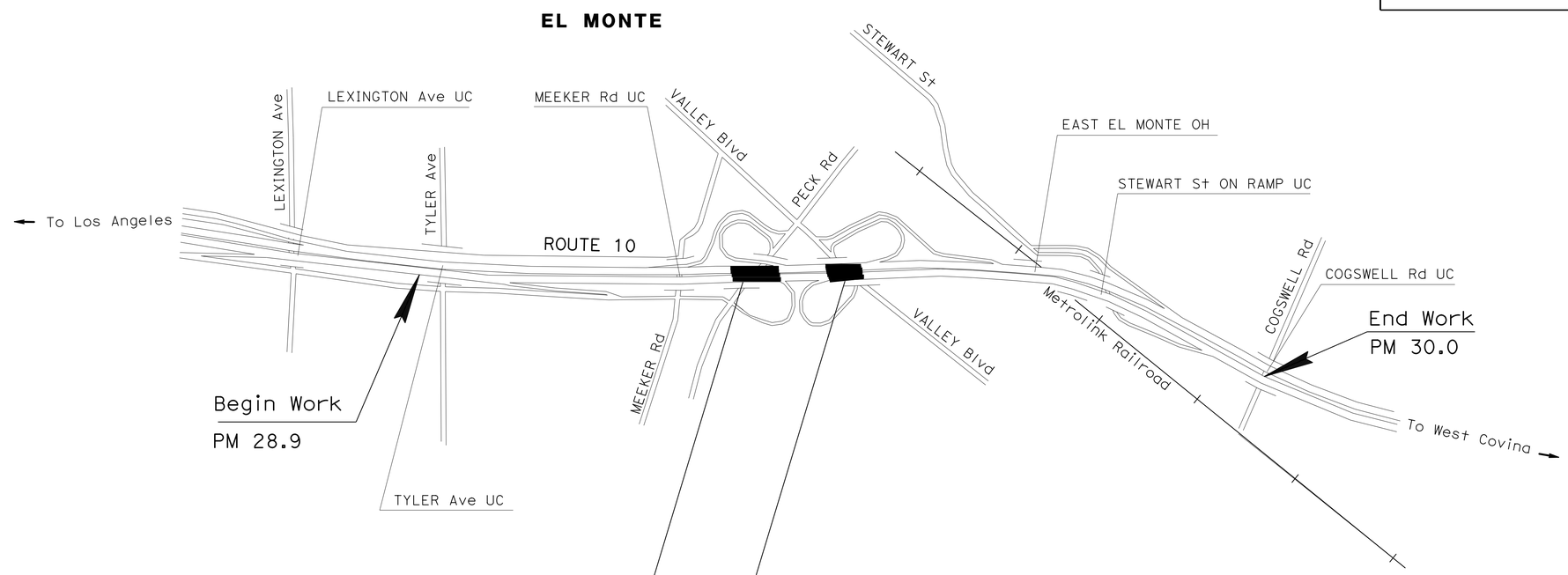
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN LOS ANGELES COUNTY

IN EL MONTE AT PECK ROAD UNDERCROSSING AND AT VALLEY BOULEVARD UNDERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATION OF CONSTRUCTION
PECK ROAD UNDERCROSSING
Br No. 53-0661 PM 29.4

LOCATION OF CONSTRUCTION
VALLEY BOULEVARD UNDERCROSSING
Br No. 53-0660 PM 29.5

NO SCALE

PROJECT MANAGER CHRISTIAN SAM

DESIGN MANAGER LARRY WIERING

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 2-10-15

REGISTERED PROFESSIONAL ENGINEER BIPIN PATEL No. C60082 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

February 17, 2015
PLANS APPROVAL DATE

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

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

CONTRACT No.	07-2W9204
PROJECT ID	0714000321

LAST REVISION 02-17-15 DATE PLOTTED => 18-FEB-2015 TIME PLOTTED => 22:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	2	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BIPIN PATEL No. C60082 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

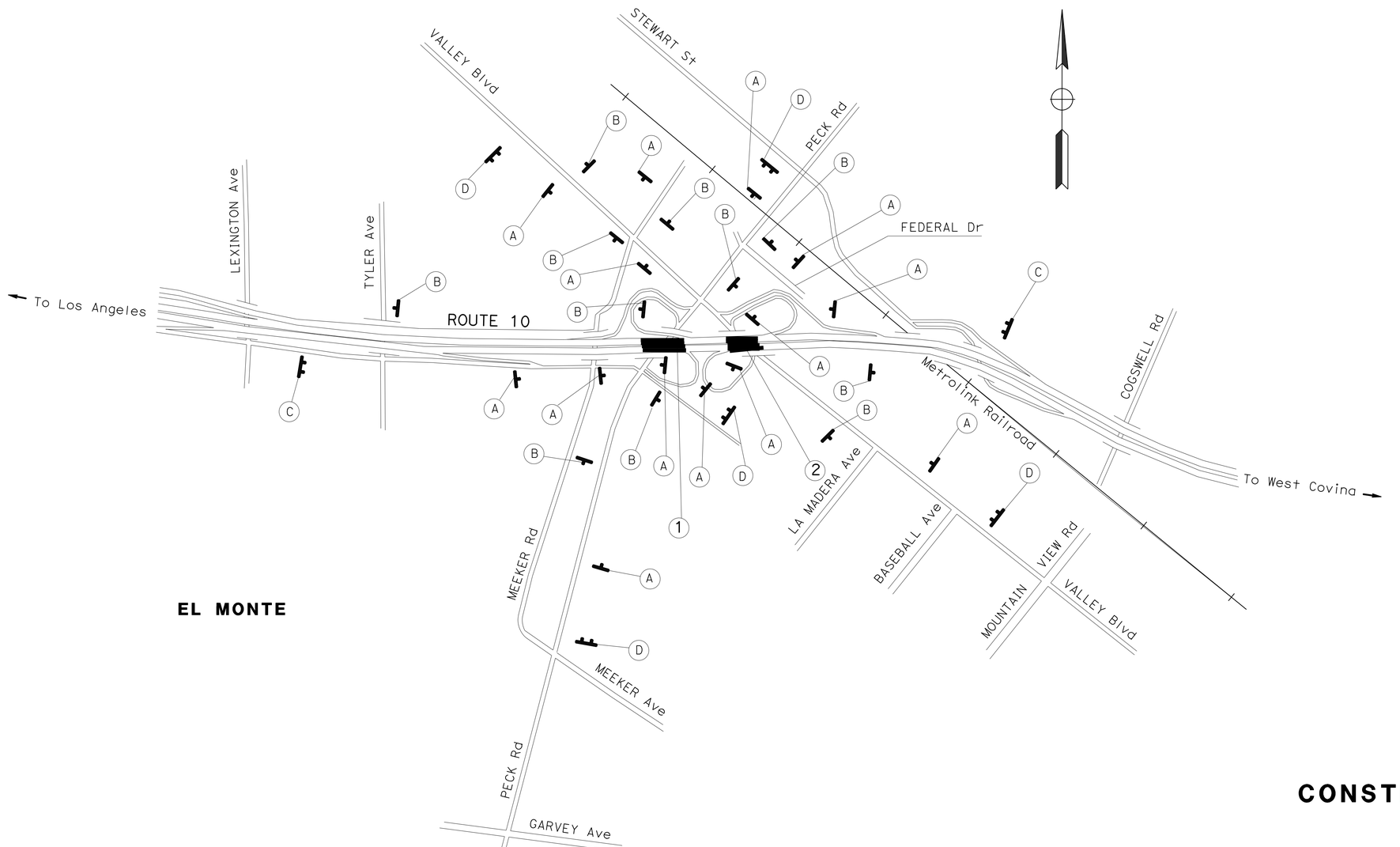
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

EXACT LOCATION AND POSITION OF SIGNS WILL BE DETERMINED BY THE ENGINEER

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	FEDERAL	CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	14
B	G20-2		48" X 24"	END ROAD WORK	1 - 4" x 6"	11
C		C40(CA)	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	2
D		C40(CA)	72" x 36"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	5



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: GEHAN ATTALLAH
CHECKED BY: LARRY WIERING
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 22:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	3	53

REGISTERED CIVIL ENGINEER DATE 1/14/15

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALI R. BAMSHAD No. C48134 Exp. 6-30-16 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.

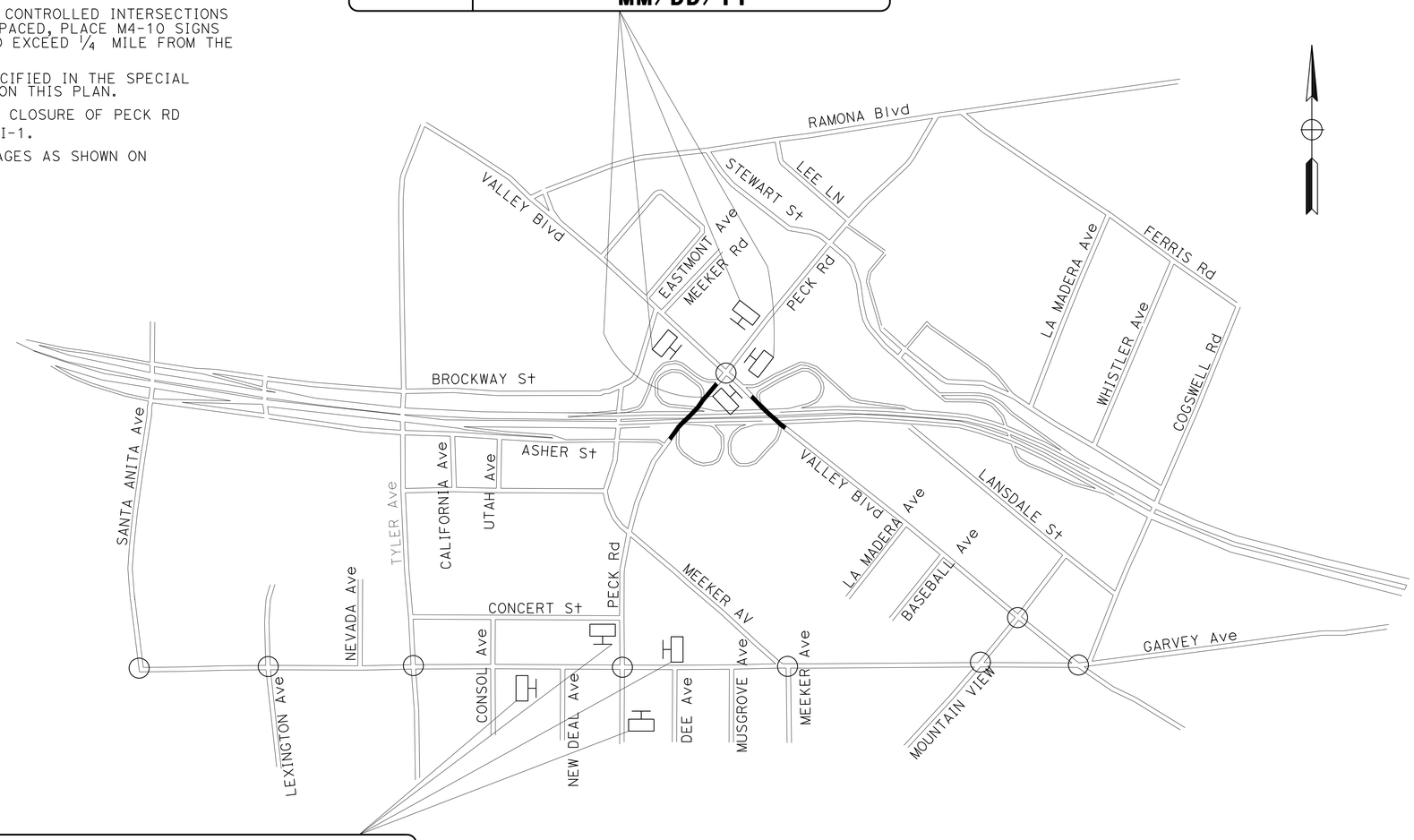
NOTES:

1. M4-10 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. M4-10 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
4. M4-10 SIGNS MUST BE POSTED AT EACH CONTROLLED INTERSECTION (EXCEPT AT COMMERCIAL PROPERTY, RESIDENTIAL COMPLEX OR T-INTERSECTION FROM ONE-WAY STREET) ALONG THE DESIGNATED DETOUR ROUTE.
5. UNLESS OTHERWISE SHOWN ON OTHER THD PLANS, WHEN CONTROLLED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE ARE CLOSELY SPACED, PLACE M4-10 SIGNS AT CONTROLLED INTERSECTIONS AT A DISTANCE NOT TO EXCEED 1/4 MILE FROM THE PRECEDING DETOUR SIGN.
6. EXCEPT AS OTHERWISE SHOWN ON OTHER PLANS OR SPECIFIED IN THE SPECIAL PROVISIONS, M4-10 SIGNS MUST BE PLACED AS SHOWN ON THIS PLAN.
7. PCMS MUST BE PLACED ONE MONTH IN ADVANCE OF THE CLOSURE OF PECK RD AND VALLEY BLVD WITH THE MESSAGES AS SHOWN ON MI-1.
8. ONCE WORK COMMENCES, PCMS MUST DISPLAY THE MESSAGES AS SHOWN ON SHEET MI-2 .

LEGEND

- PCMS
- SIGNAL CONTROLLED INTERSECTION
- SIGN M4-10
- DETOUR DIRECTION

FIRST FLASH MESSAGE	**VALLEY & PECK ONE LN OPEN**
SECOND FLASH MESSAGE	**MM/DD/YY TO MM/DD/YY**



FIRST FLASH MESSAGE	**VALLEY & PECK ONE LN OPEN**
SECOND FLASH MESSAGE	**MM/DD/YY TO MM/DD/YY**

MOTORIST INFORMATION PLAN
PECK Rd/VALLEY Blvd CLOSURE

NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MI-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: SAM ESQUENAZI
CALCULATED-DESIGNED BY: GERARDO VILLANUEVA
CHECKED BY: ALI BAMSHAD
REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION 02-17-15 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 22:48

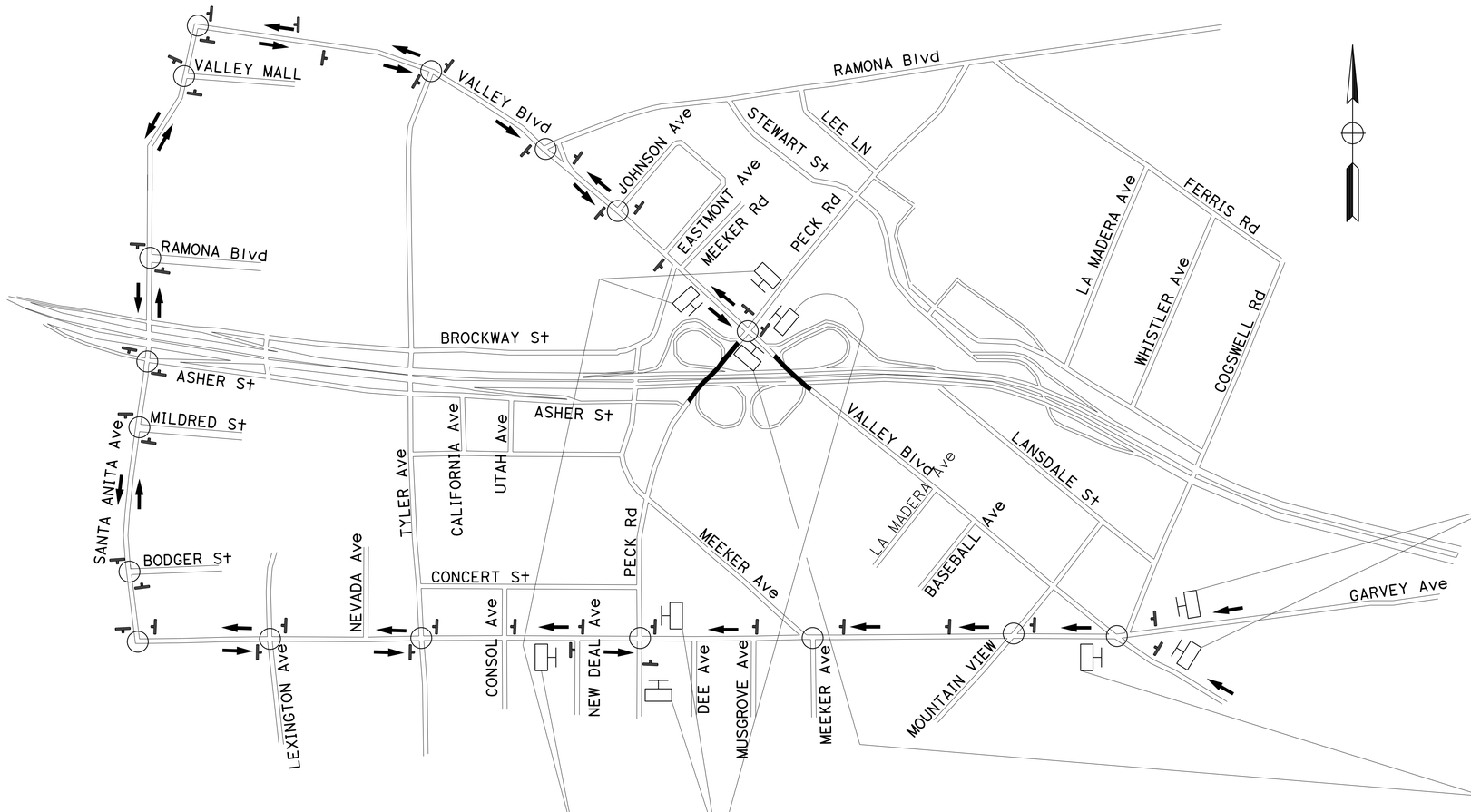
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	4	53

REGISTERED CIVIL ENGINEER 1/14/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALI R. BAMSHAD No. C48134 Exp. 6-30-16 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.



FIRST FLASH MESSAGE	**VALLEY & PECK ONE LN OPEN**
SECOND FLASH MESSAGE	**ALT USE SANTA ANITA**

FIRST FLASH MESSAGE	**VALLEY ONE LANE OPEN**
SECOND FLASH MESSAGE	

FIRST FLASH MESSAGE	**VALLEY & PECK ONE LN OPEN**
SECOND FLASH MESSAGE	

FIRST FLASH MESSAGE	**PECK RD ONE LANE OPEN**
SECOND FLASH MESSAGE	**ALT USE SANTA ANITA**

MOTORIST INFORMATION PLAN
PECK Rd/ VALLEY Blvd DETOUR

NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MI-2

REVISED BY	JC
DATE REVISED	2/14
CALCULATED-DESIGNED BY	GERARDO VILLANUEVA
CHECKED BY	ALI BAMSHAD
FUNCTIONAL SUPERVISOR	SAM ESQUENAZI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

LAST REVISION 02-17-15 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 22:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	5	53

REGISTERED CIVIL ENGINEER 1/14/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALI R. BAMSHAD No. C 48134 Exp. 6-30-16 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.

E-1

Santa Anita Ave 1/4
Peck Rd-South 3/4
Peck Rd-North 1 1/4
CLOSED

FEBT AT PM 28.25

INSTALL OVERLAY
45" X 20"
BLACK ON ORANGE
10" CAP SERIES D

E-2

Peck Rd-SOUTH 1/4
Peck Rd-NORTH
Valley Blvd 1/2
CLOSED

FEBT AT PM 28.70

INSTALL OVERLAY
45" X 20"
BLACK ON ORANGE
10" CAP SERIES D

E-3

Peck Rd - NORTH
Valley Blvd
EXIT ↓ ONLY
CLOSED

FEBT AT PM 29.12

INSTALL OVERLAY
84" X 20"
BLACK ON ORANGE
10" CAP SERIES D

E-4

Peck Rd - NORTH
Valley Blvd ↗
EXIT ONLY
CLOSED

FEBT AT PM 29.40

INSTALL OVERLAY
84" X 20"
BLACK ON ORANGE
10" CAP SERIES D

W-1

Peck Rd - NORTH 1/4
Valley Blvd 3/4
Peck Rd - SOUTH 1
CLOSED

FWBT AT PM 30.14

INSTALL OVERLAY
45" X 20"
BLACK ON ORANGE
10" CAP SERIES D

W-2

Peck Road
SOUTH
1/4 MILE
CLOSED

Valley Blvd ↗

FWBT AT PM 29.65

INSTALL OVERLAY
84" X 20"
BLACK ON ORANGE
10" CAP SERIES D

W-3

Peck Road ↗
SOUTH EXIT ONLY
CLOSED

FWBT AT PM 29.45

INSTALL OVERLAY
84" X 20"
BLACK ON ORANGE
10" CAP SERIES D

MOTORIST INFORMATION SIGN DETAILS

NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MI-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DTM

FUNCTIONAL SUPERVISOR: ALI BAMSHAD
CALCULATED-DESIGNED BY: BENJAMIN RAMOS
CHECKED BY: ALI BAMSHAD
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 22:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	6	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 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:

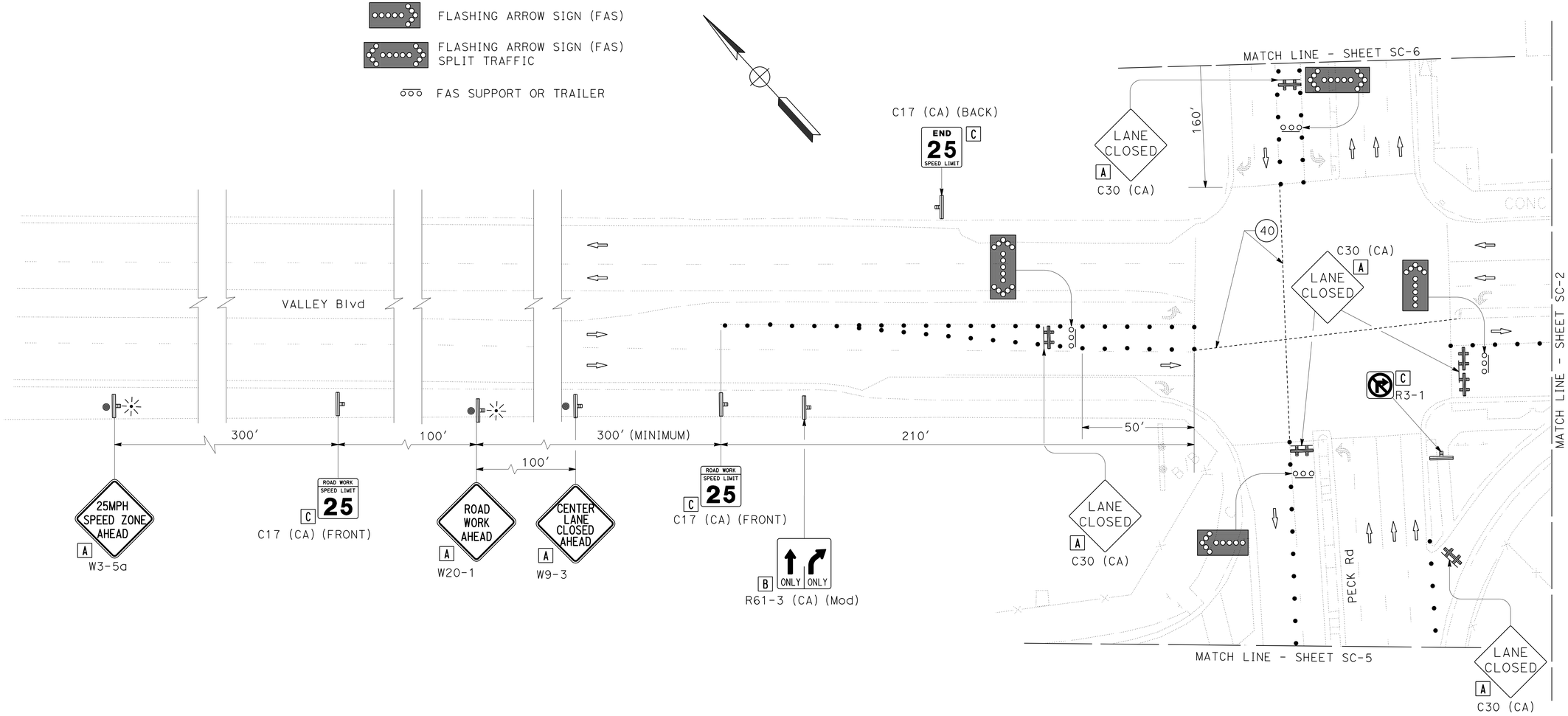
1. SPACING FOR CHANNELIZERS IS 10' UNLESS OTHERWISE SPECIFIED.
2. COVER ALL CONFLICTING SIGNING.
3. CONFLICTING SIGNING AND PAVEMENT DELINEATION MUST BE REMOVED.

LEGEND:

- BRIDGE WORK AREA
- DIRECTION OF TRAVEL
- TYPE II BARRICADES (3 EACH PER LANE)
- RAMP CLOSURE
- CHANNELIZER (SURFACE MOUNTED)
- (No.) TEMPORARY TRAFFIC STRIPE (TAPE) DETAIL NUMBER
- TEMPORARY SIGN
- PORTABLE FLASHING BEACON
- FLASHING ARROW SIGN (FAS)
- FLASHING ARROW SIGN (FAS) SPLIT TRAFFIC
- FAS SUPPORT OR TRAILER

SIGN PANEL SIZE

A	48" X 48"
B	45" X 45"
C	36" X 36"
D	30" X 36"



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1

NO SCALE

SC-1

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	7	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA

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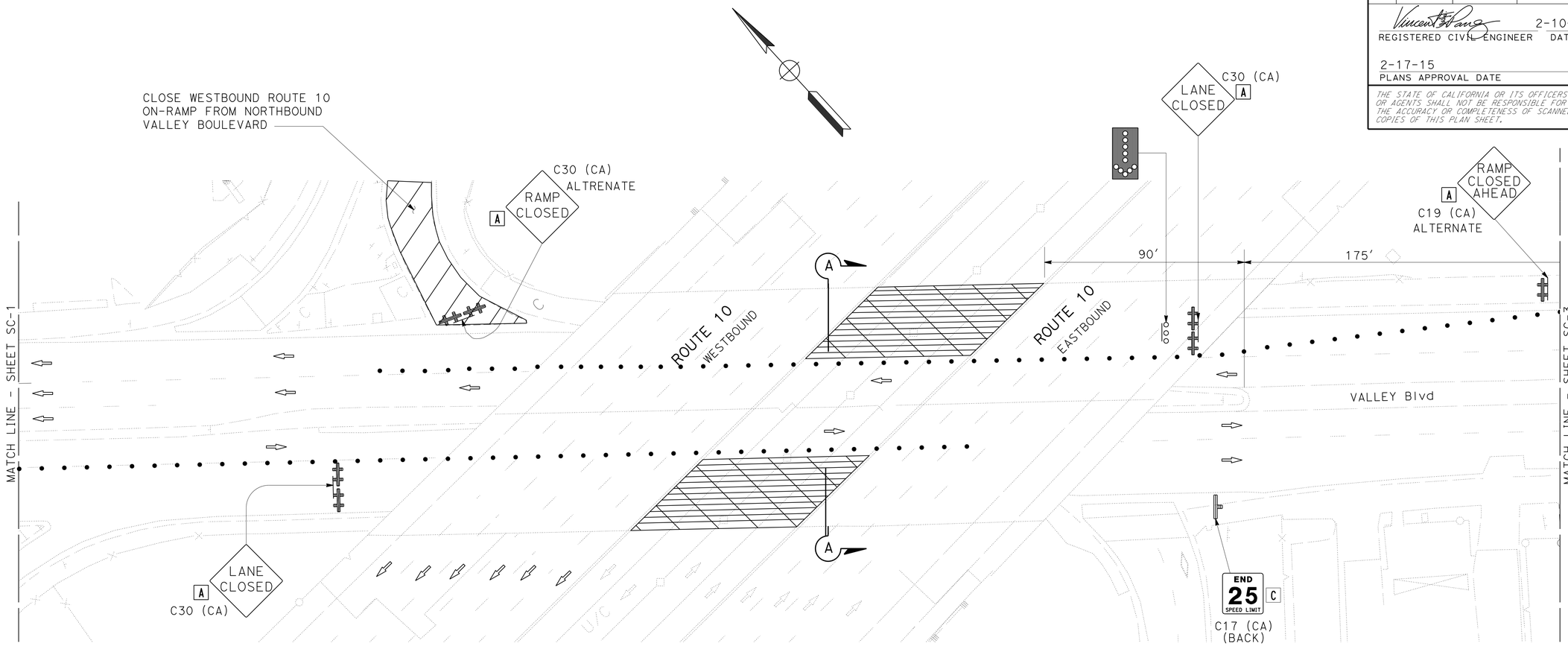

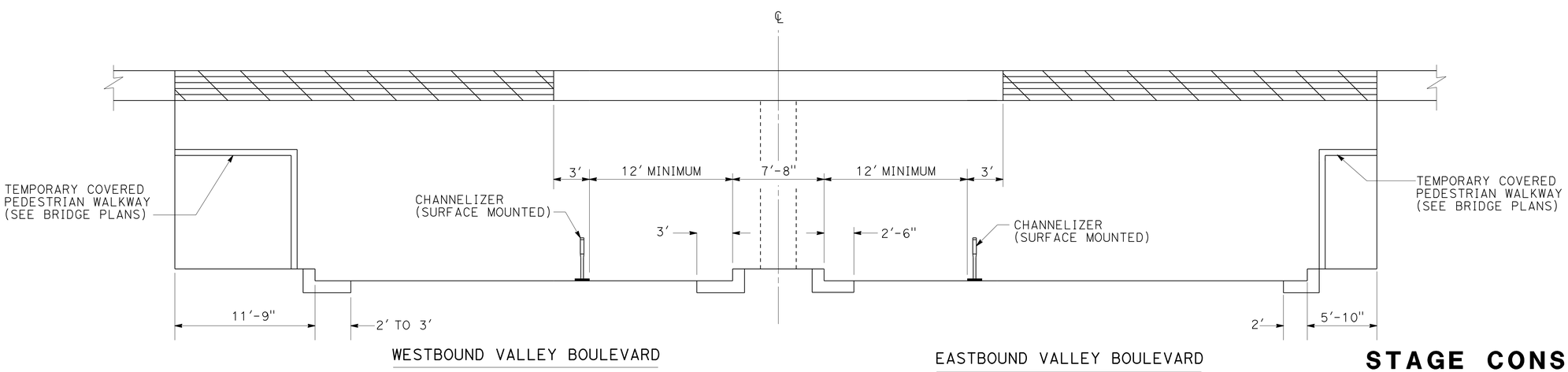

SECTION A-A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1

NO SCALE

SC-2

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	8	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA

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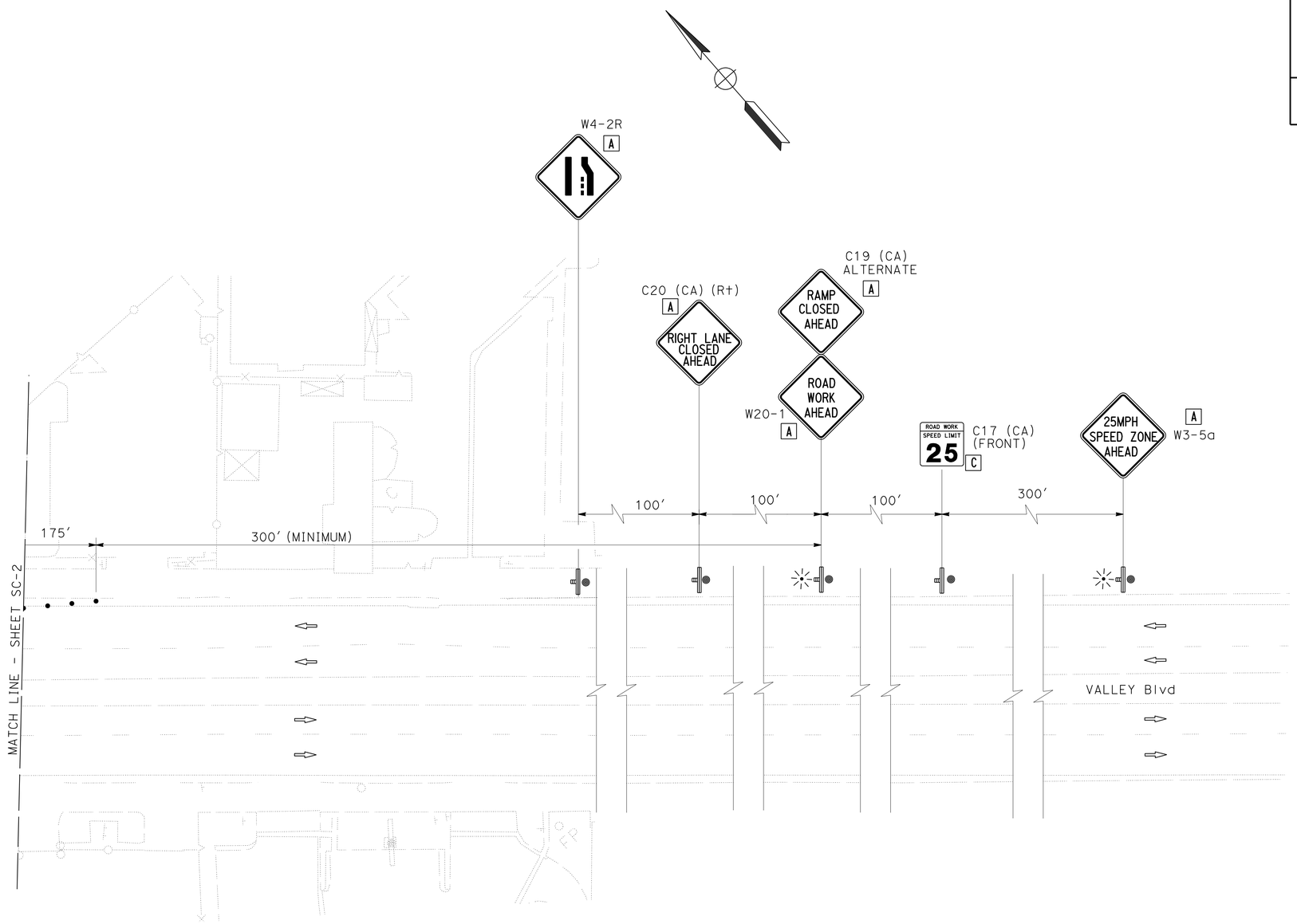

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1

NO SCALE

SC-3

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	9	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA

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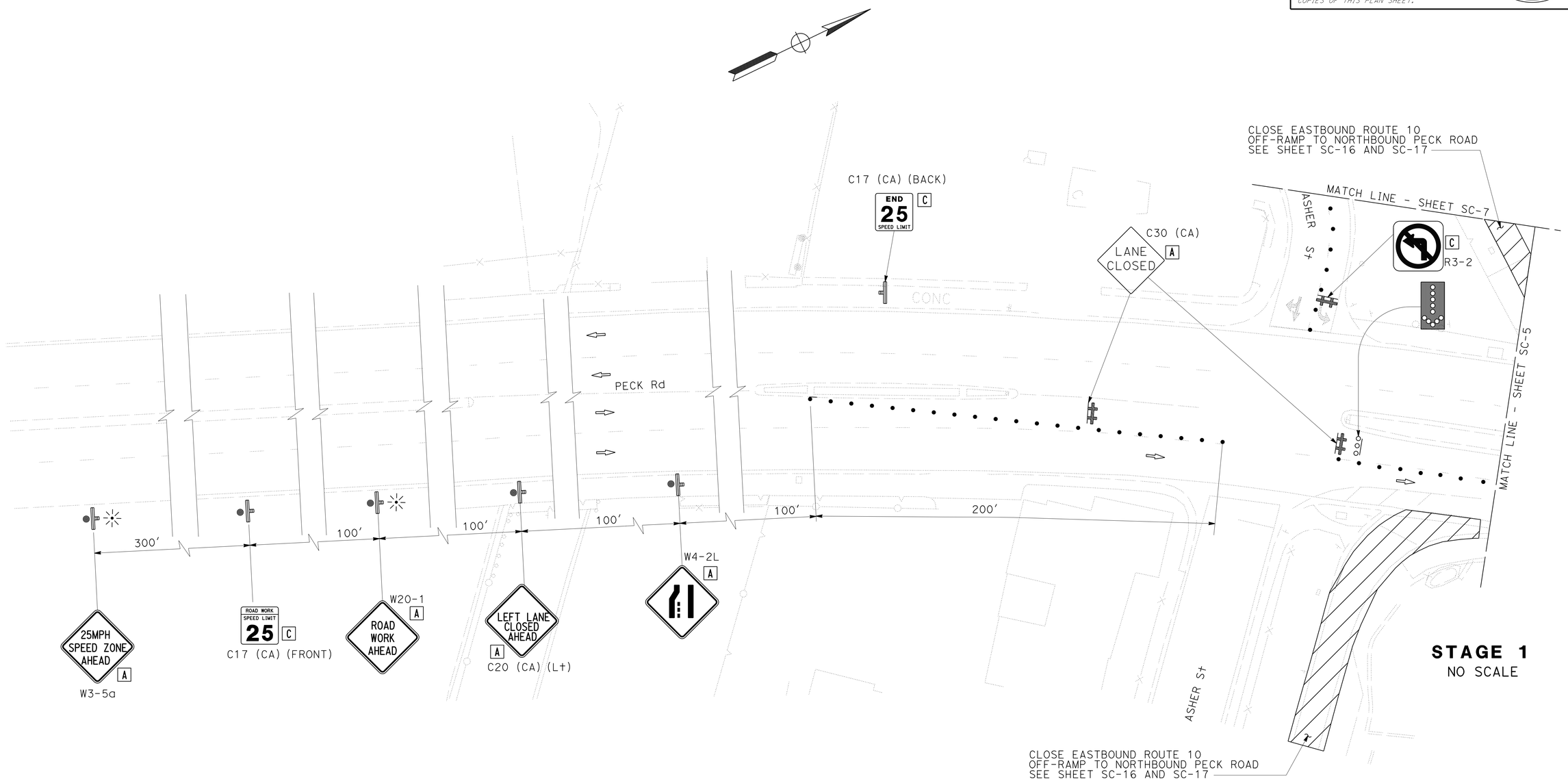

STAGE 1
NO SCALE

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1

NO SCALE

SC-4

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	10	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA

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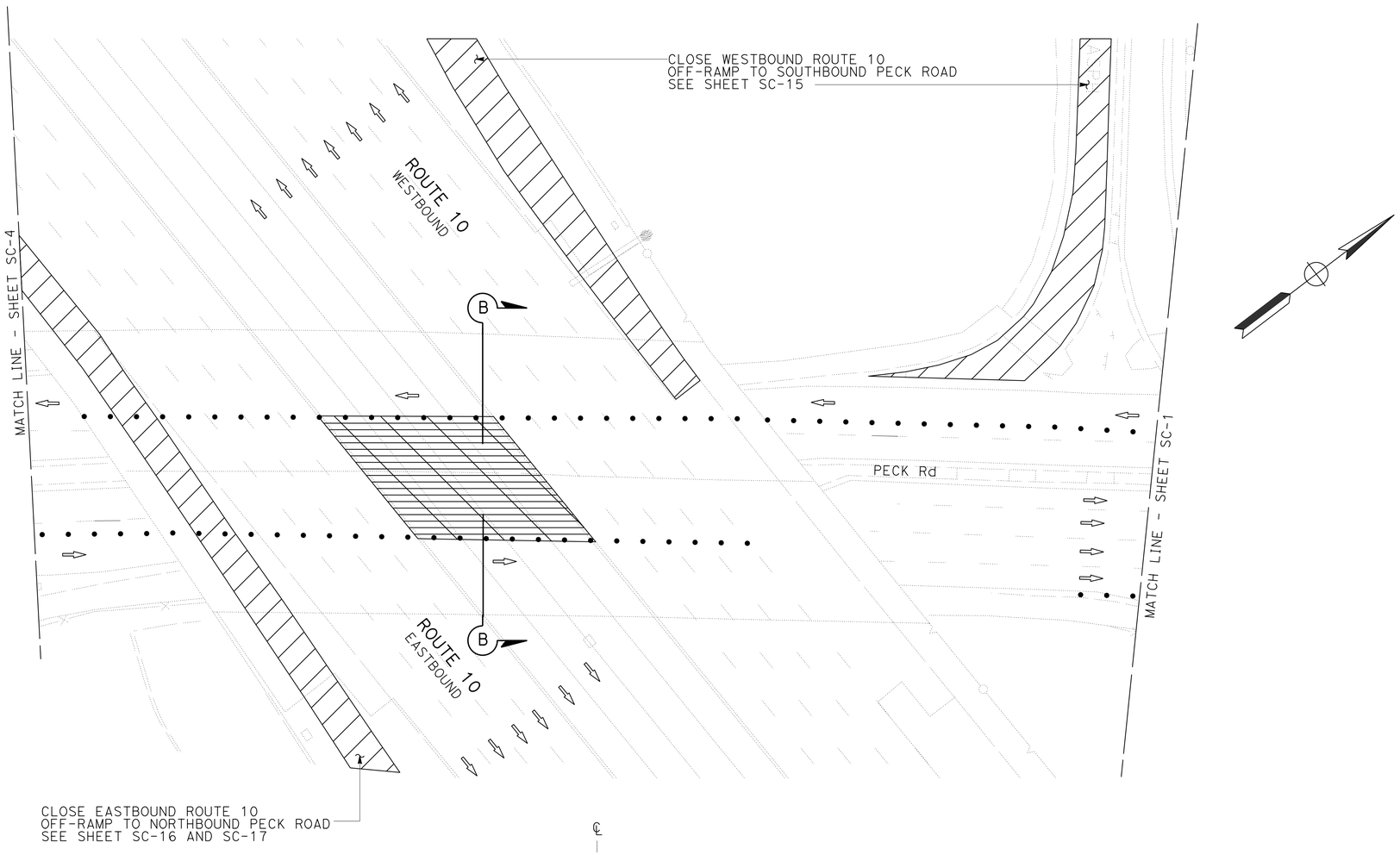
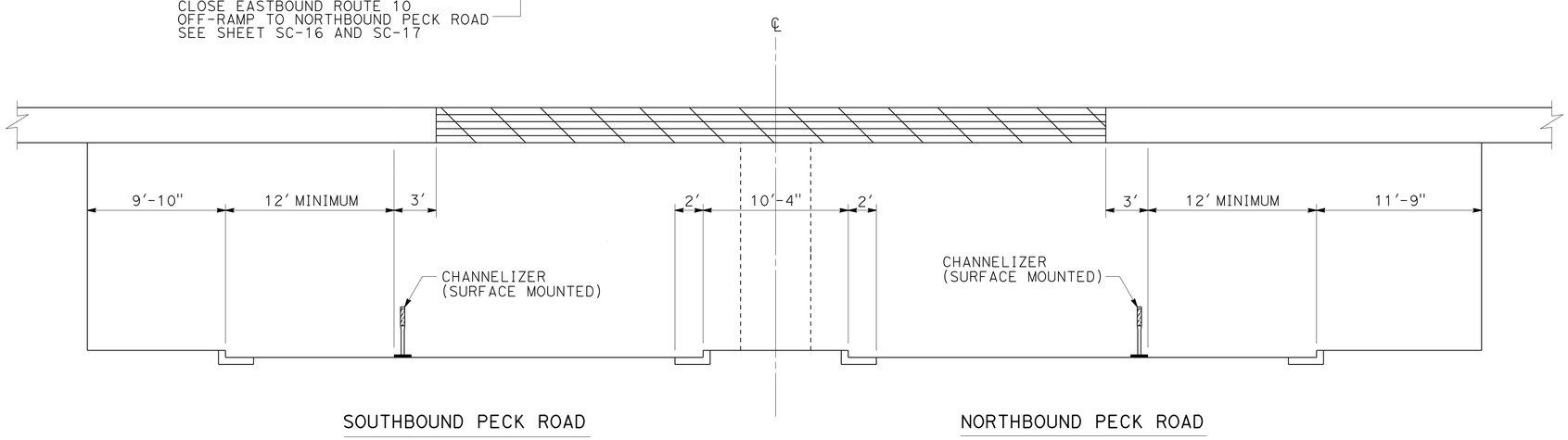




SECTION B-B

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1

NO SCALE

SC-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	11	53

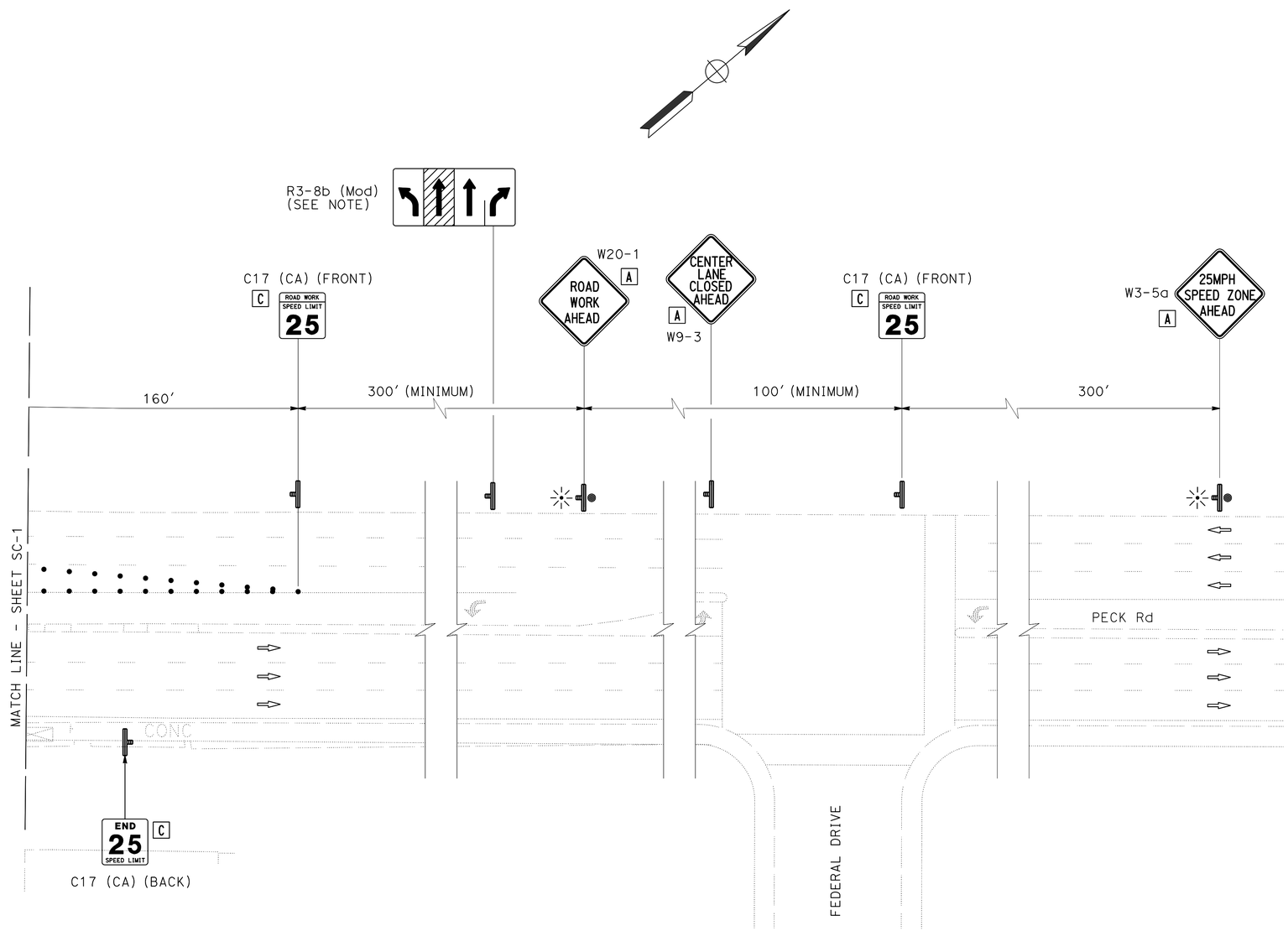
REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 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:
COVER A PORTION OF THE EXISTING R3-8b (MODIFIED) SIGN AS SHOWN.



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1

NO SCALE

SC-6

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	12	53

REGISTERED CIVIL ENGINEER DATE 2-10-15

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA

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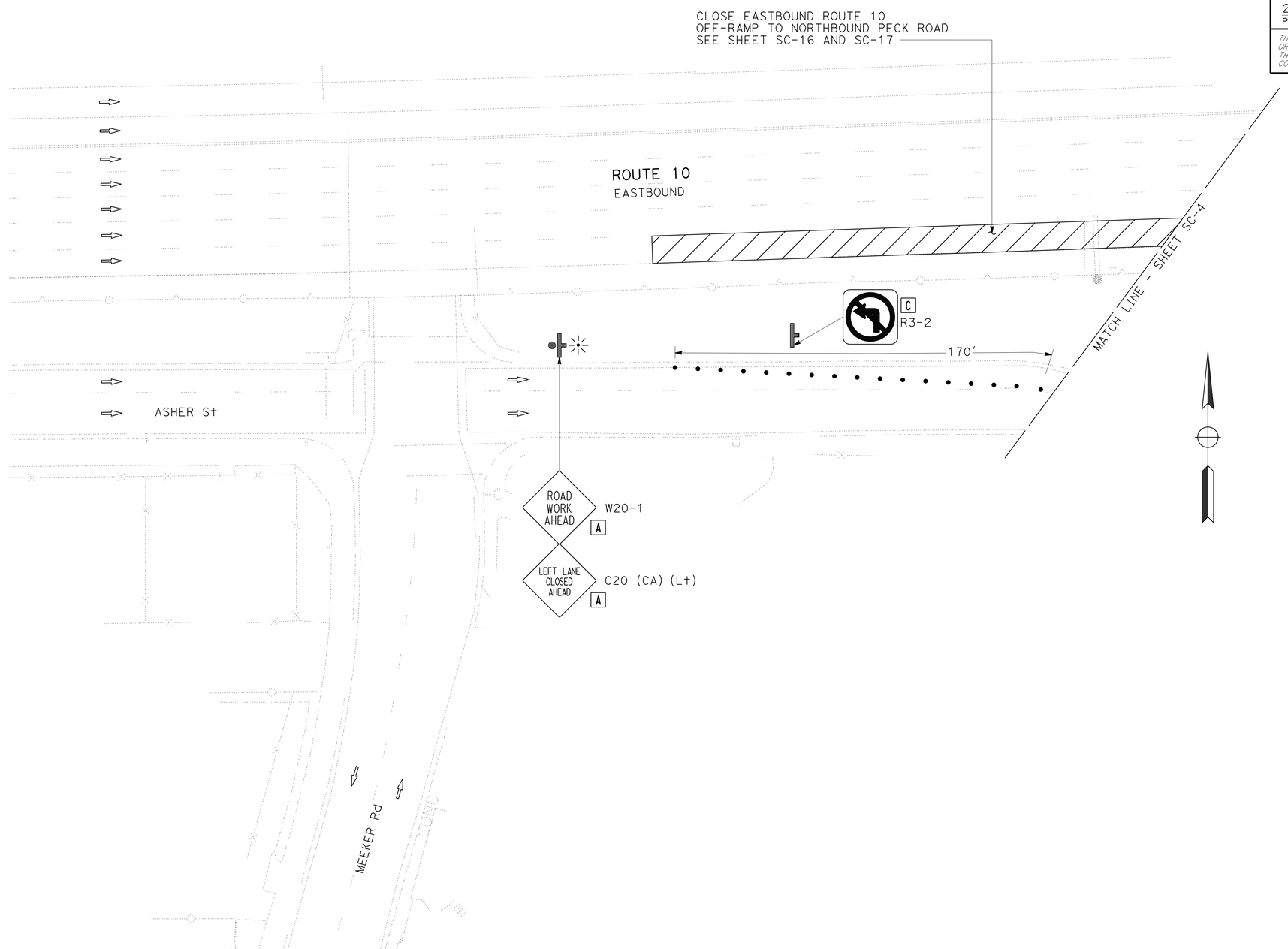

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1

NO SCALE

SC-7

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING

CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL

REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	13	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA

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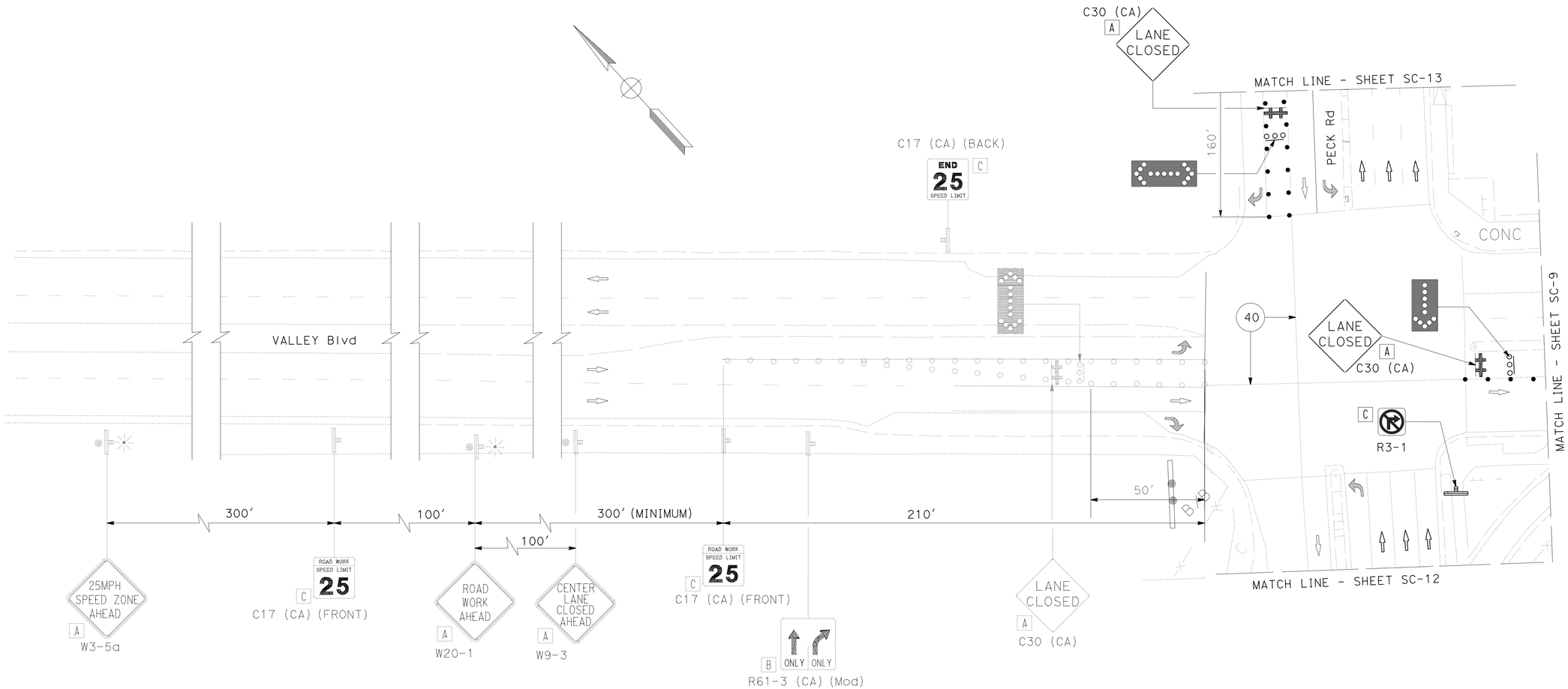


STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 2

NO SCALE

SC-8

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

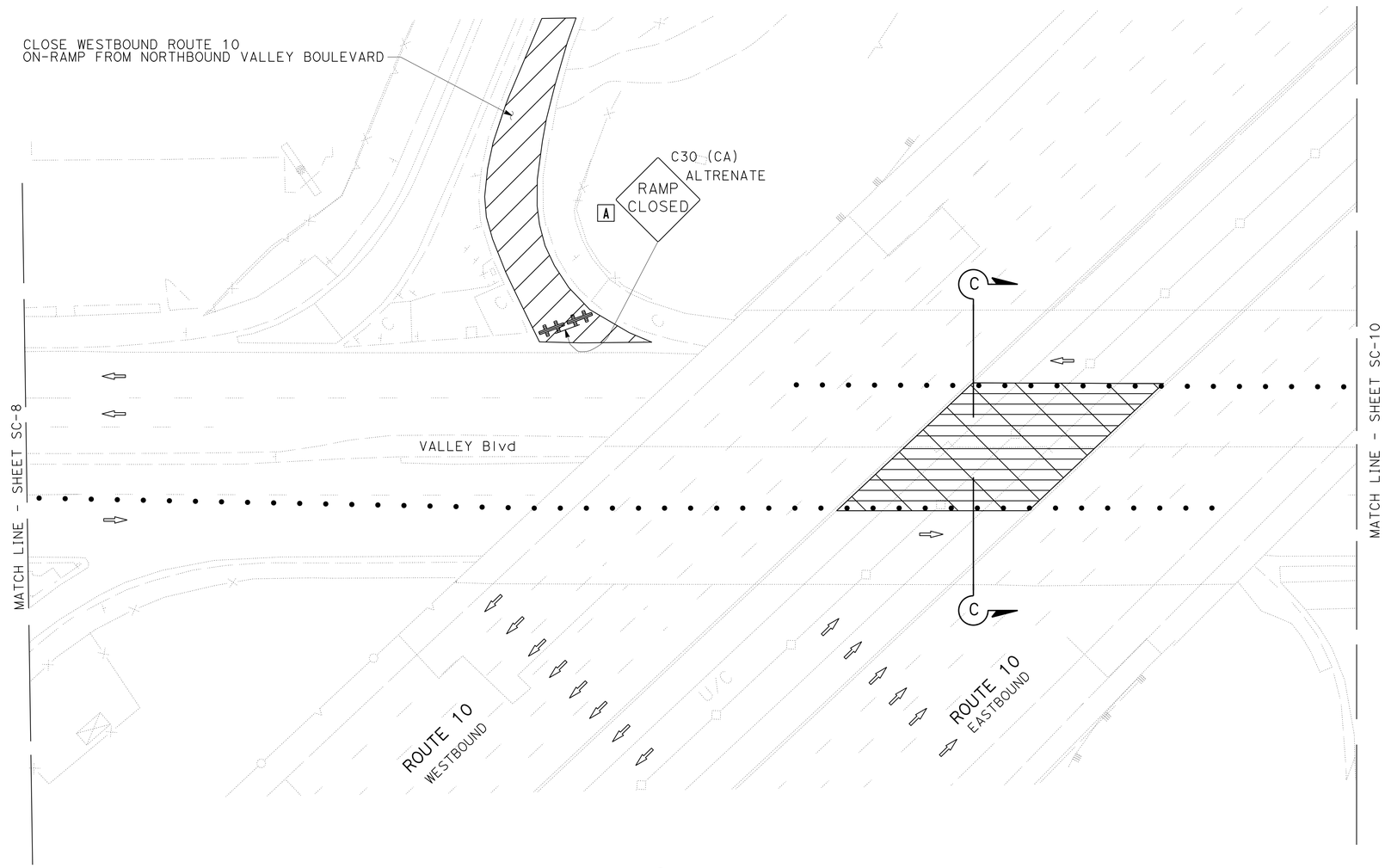
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	14	53

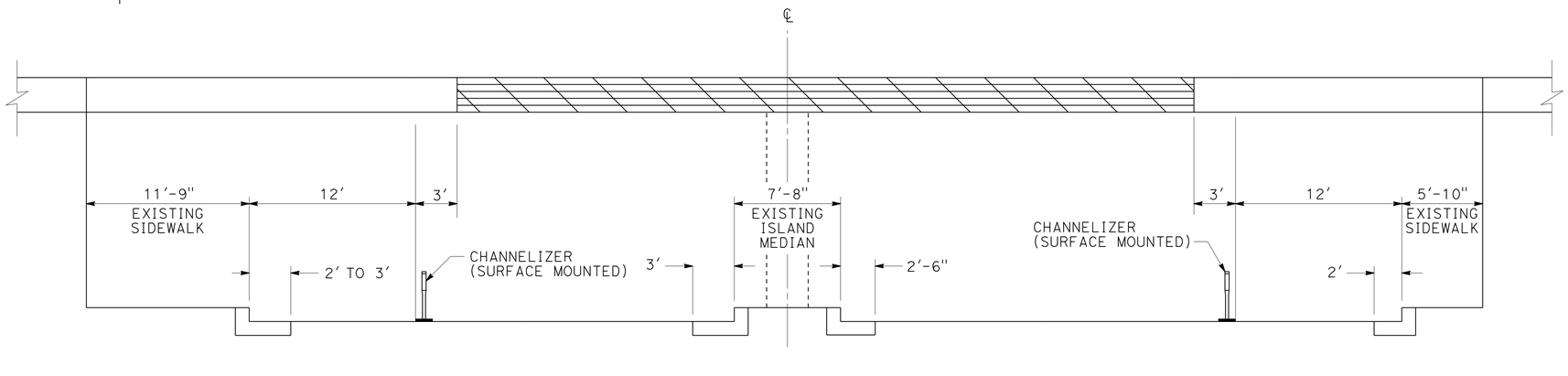
REGISTERED CIVIL ENGINEER DATE 2-10-15

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 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.





SECTION C-C

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 2

NO SCALE

SC-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	15	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA

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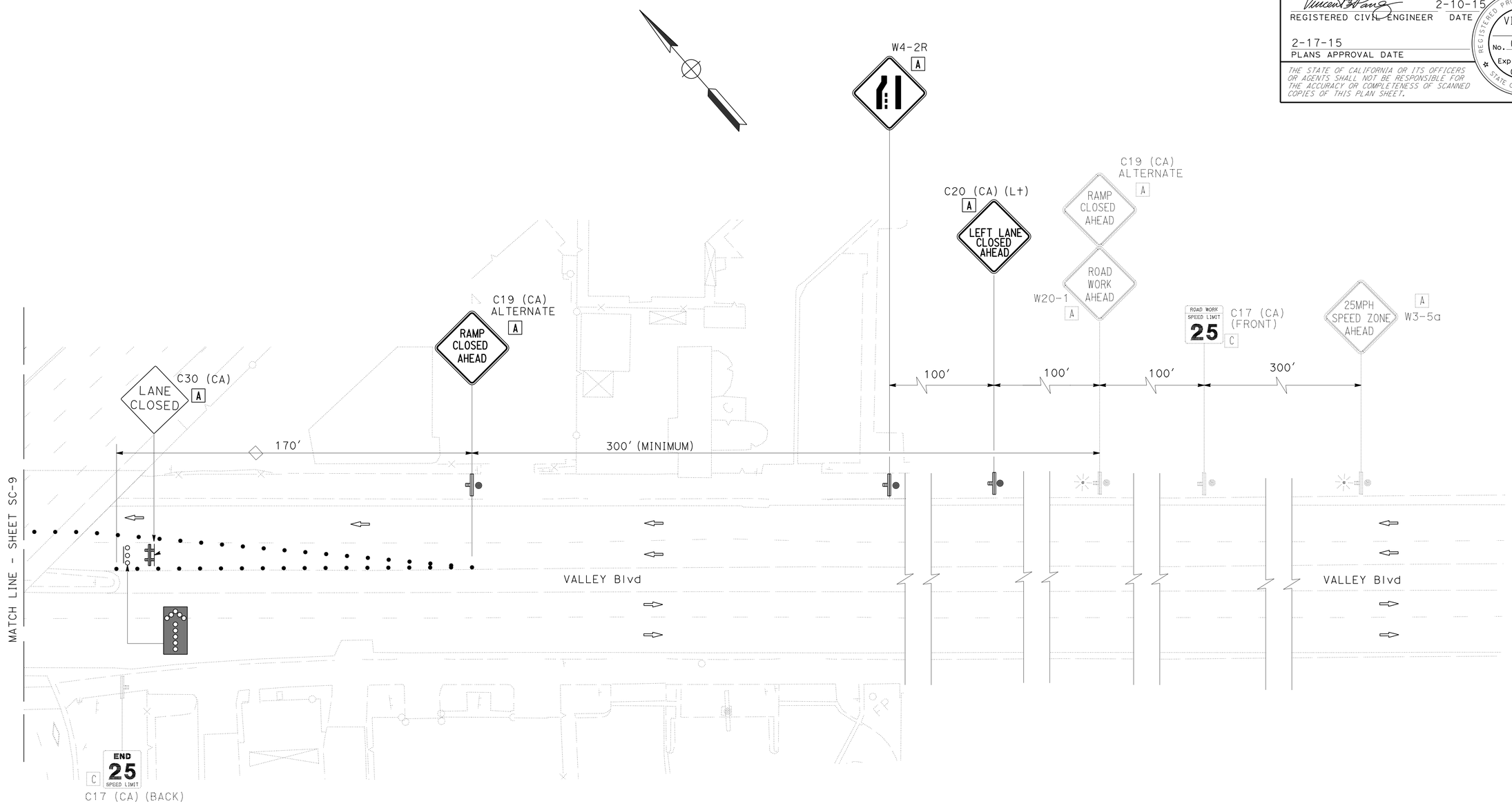

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 2

NO SCALE

SC-10

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	16	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA

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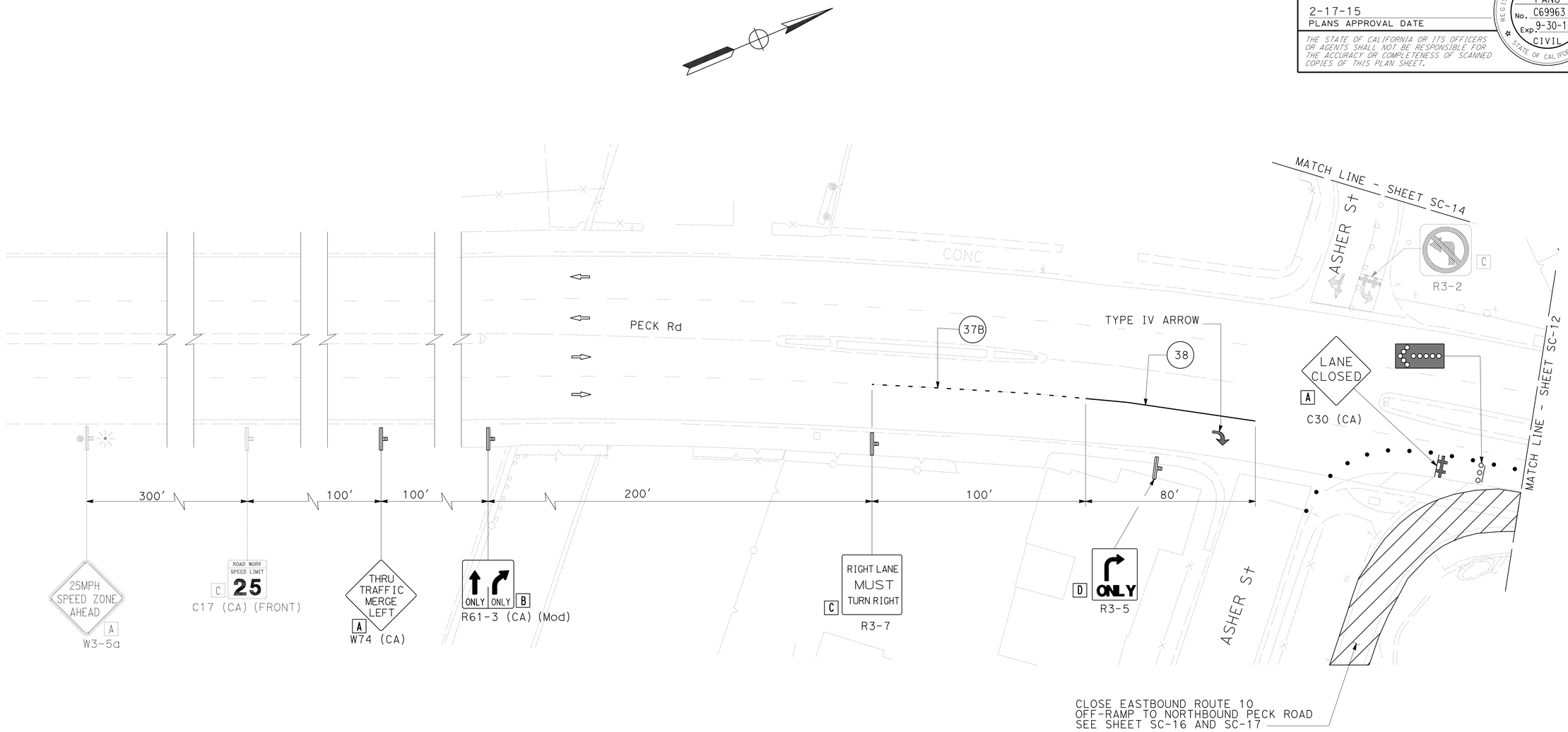


STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 2

NO SCALE

SC-11

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
FUNCTIONAL SUPERVISOR: LARRY WIERING

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

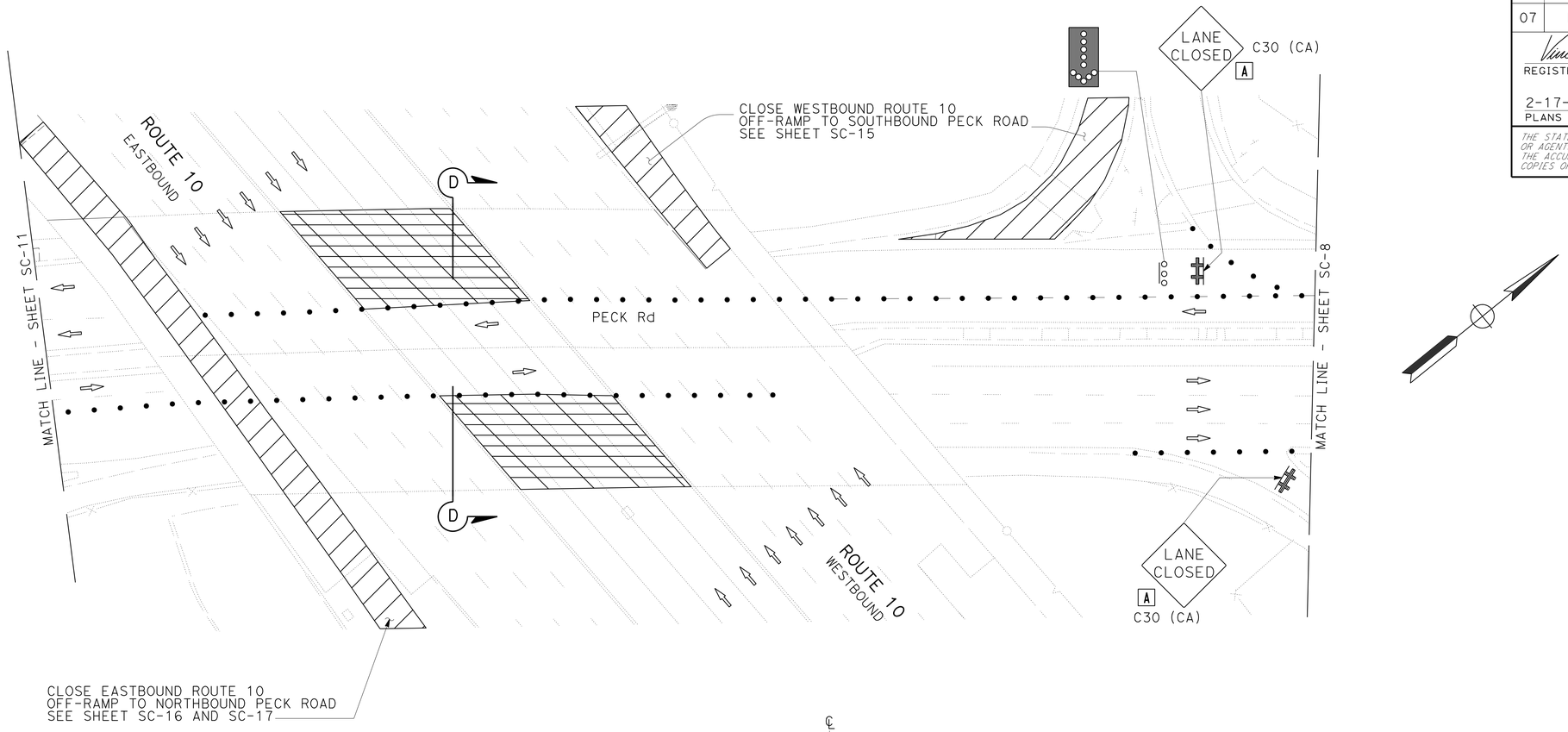
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	17	53

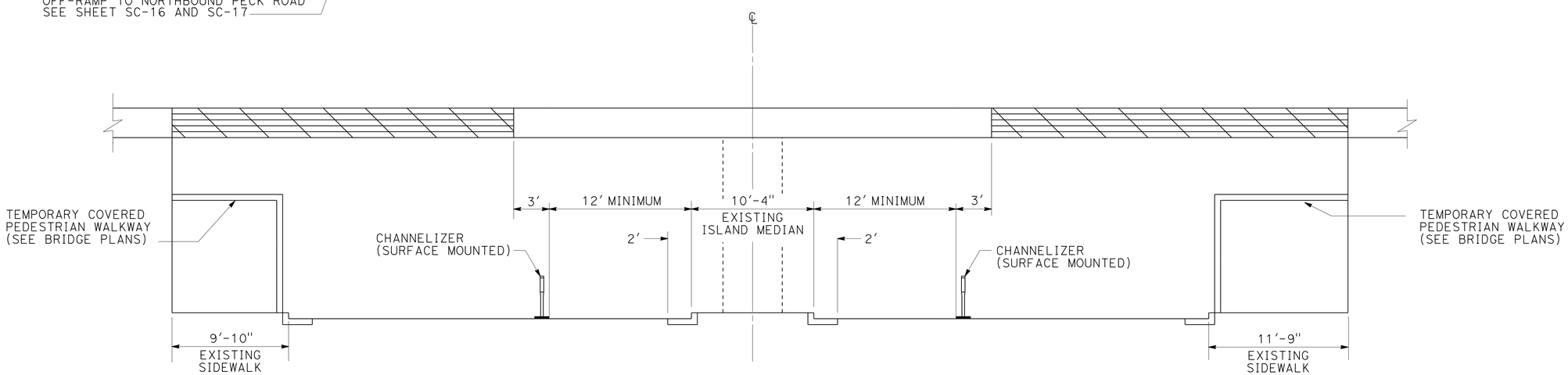
REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 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.





SECTION D-D

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 2

NO SCALE

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	18	53

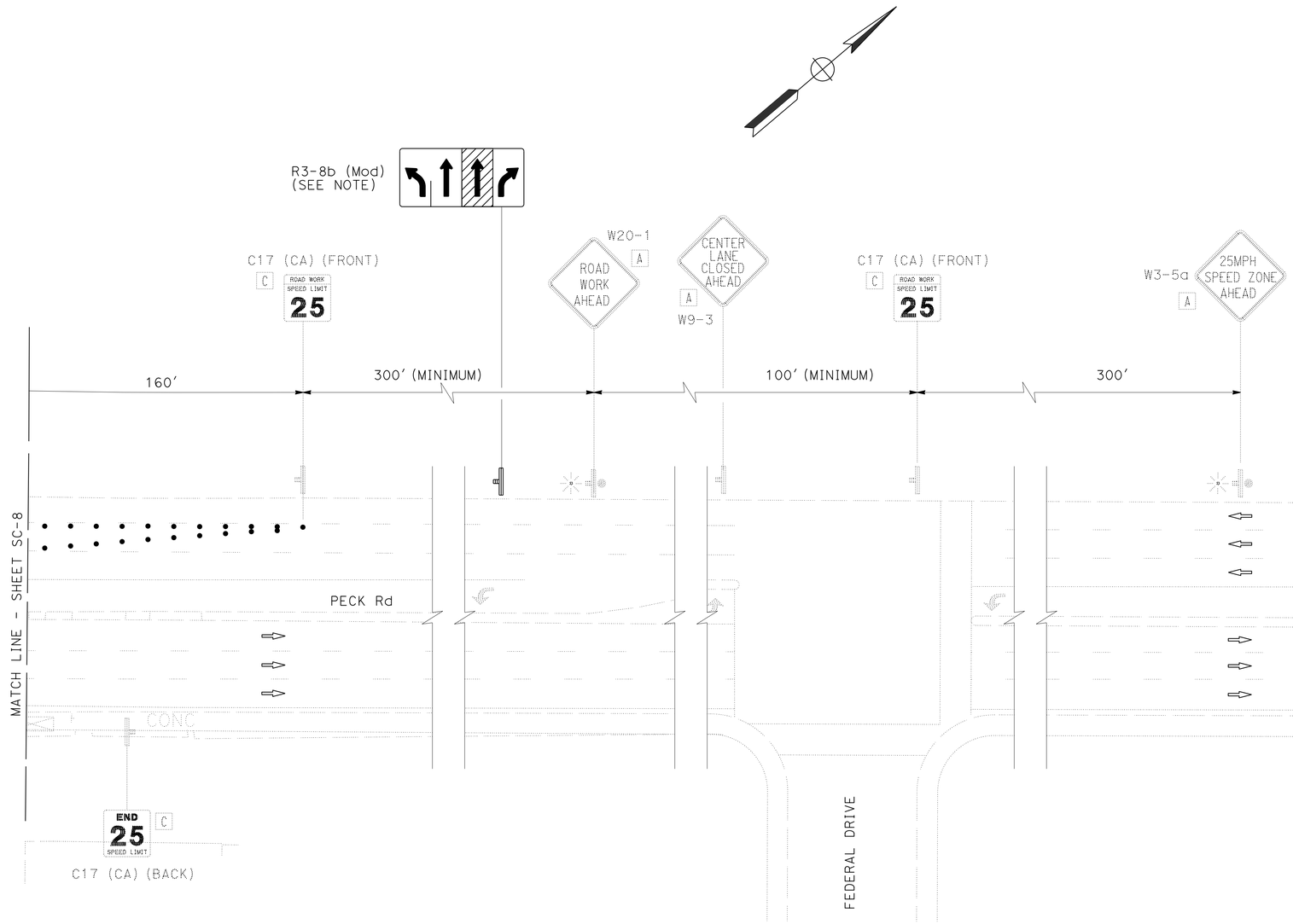
REGISTERED CIVIL ENGINEER DATE 2-10-15

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 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:
COVER A PORTION OF THE EXISTING R3-8b (MODIFIED) SIGN AS SHOWN.



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 2

NO SCALE

SC-13

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	VINCENT PANG
CHECKED BY	BIPIN PATEL
FUNCTIONAL SUPERVISOR	LARRY WIERING

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

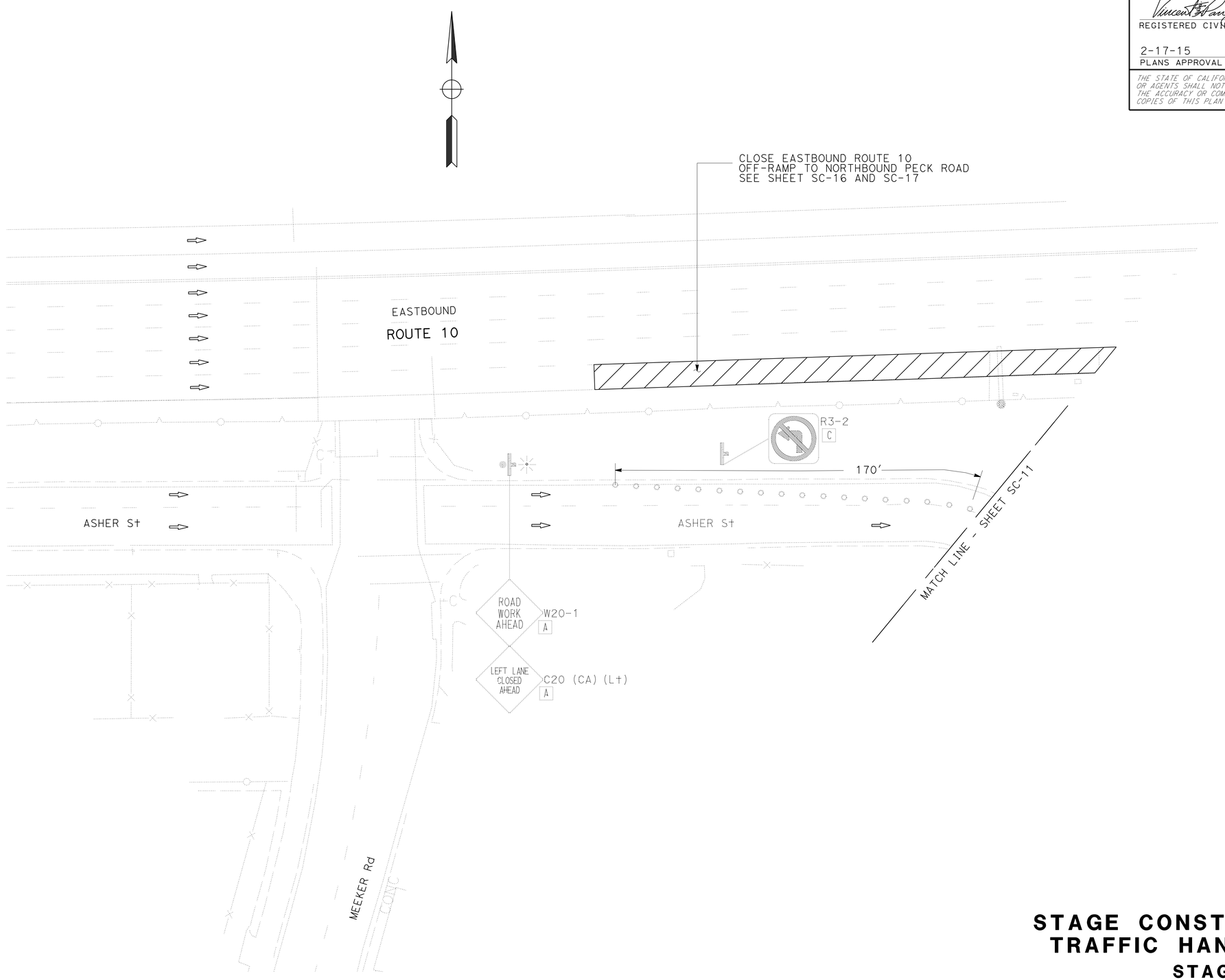
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	19	53

REGISTERED CIVIL ENGINEER DATE 2-10-15

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 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.



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 2

NO SCALE

SC-14

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING

CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL

REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

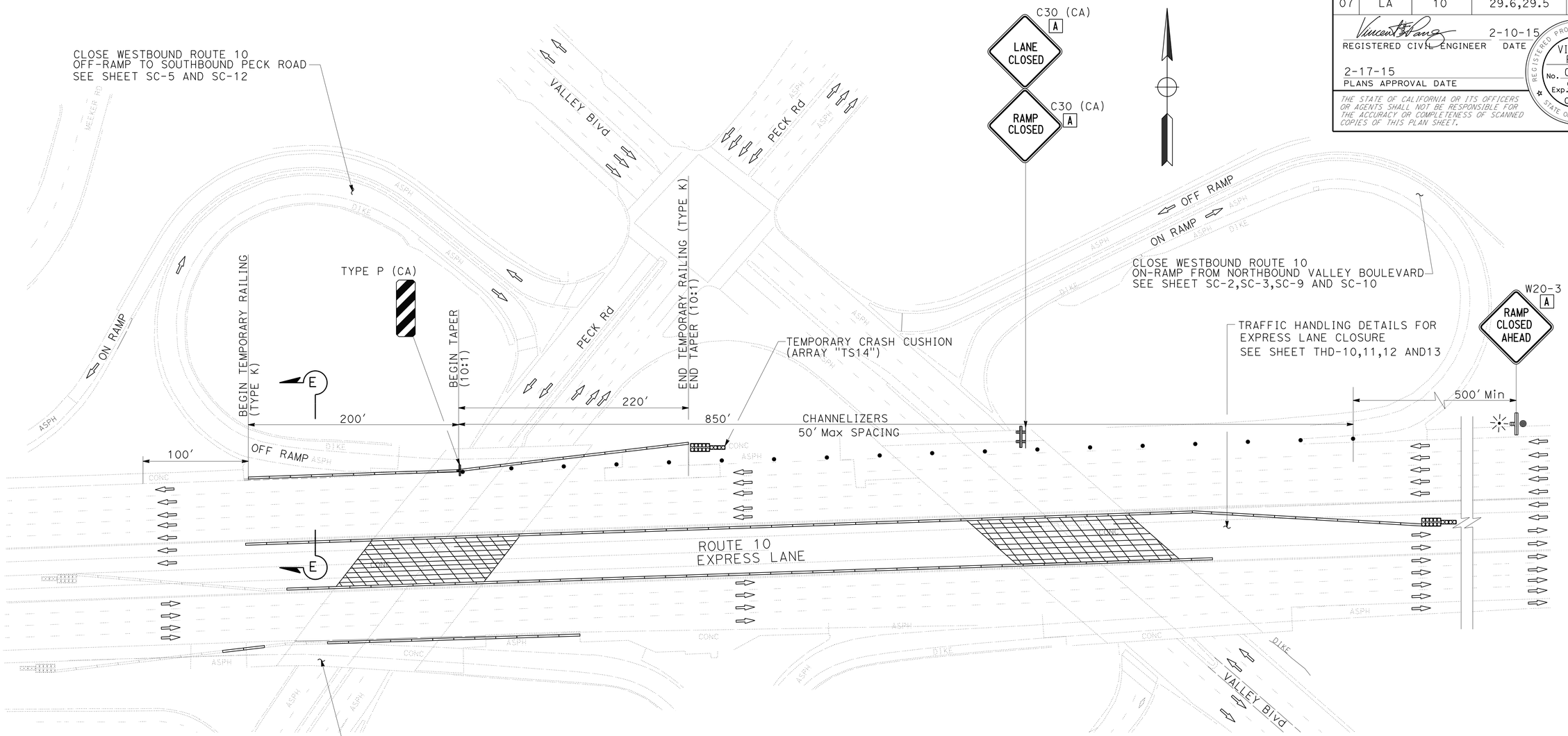
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.6,29.5	20	56

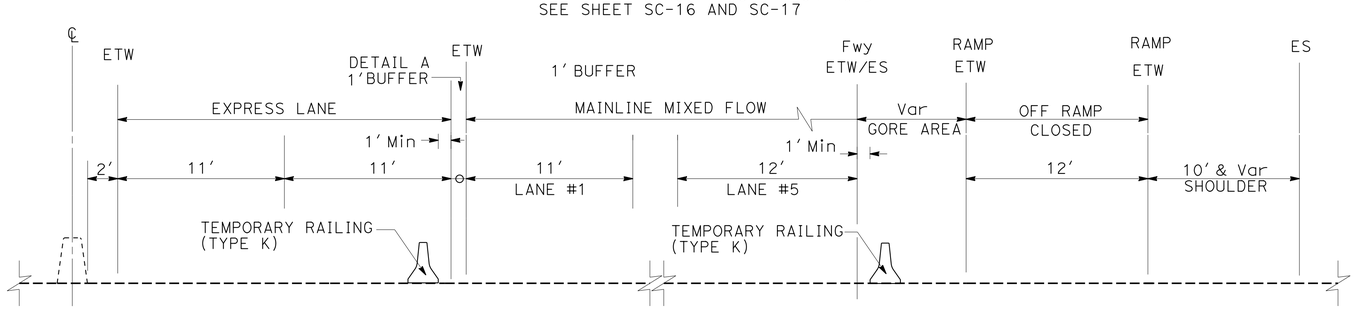
REGISTERED CIVIL ENGINEER DATE 2-10-15

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 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.





SECTION E-E
WESTBOUND ROUTE 10

EXIT RAMP CLOSURE

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 1 AND 2
NO SCALE

SC-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 23:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	21	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA

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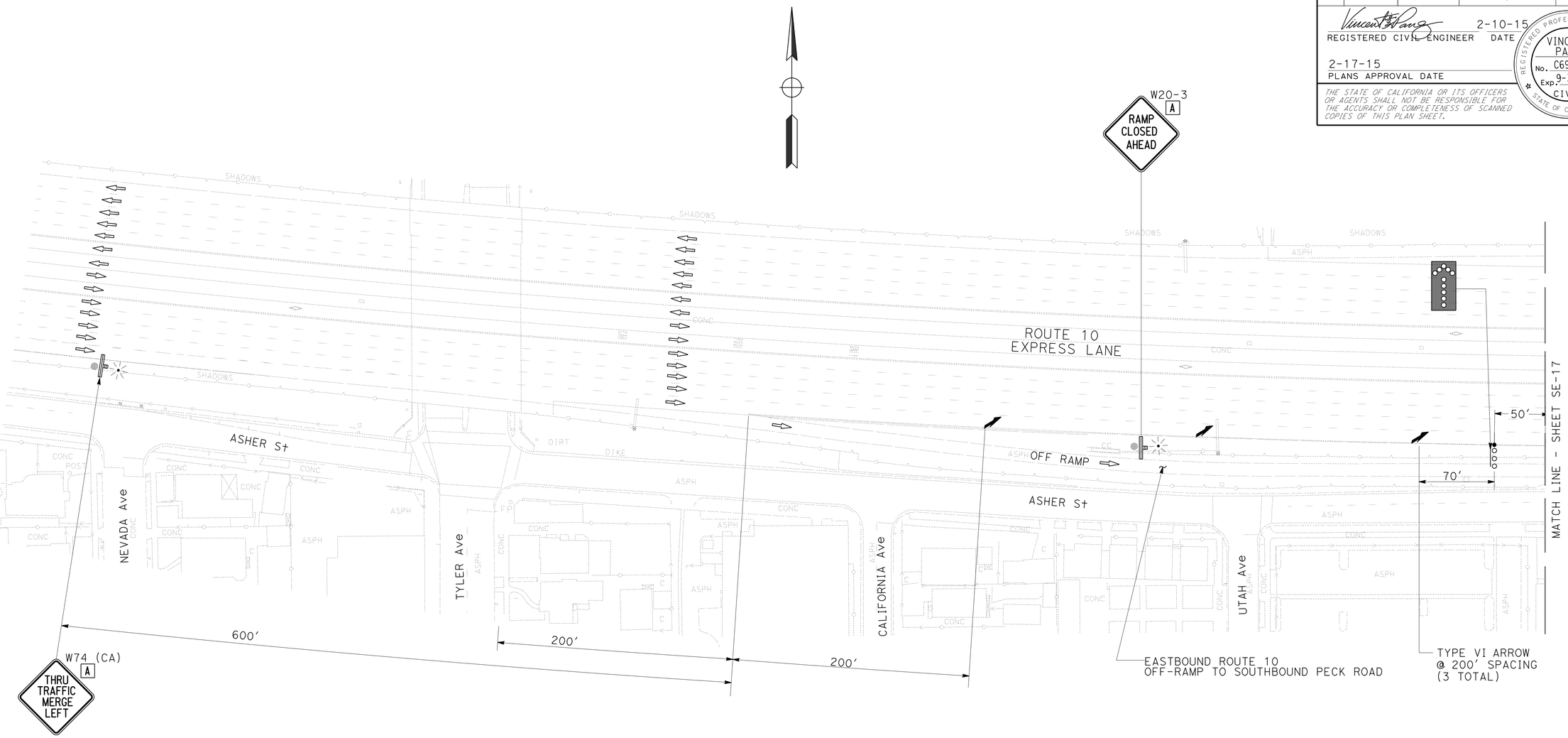

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1 AND 2

NO SCALE

SC-16

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: VINCENT PANG
CHECKED BY: BIPIN PATEL
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 20:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	22	53

REGISTERED CIVIL ENGINEER DATE 2-10-15

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER VINCENT PANG No. C69963 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA

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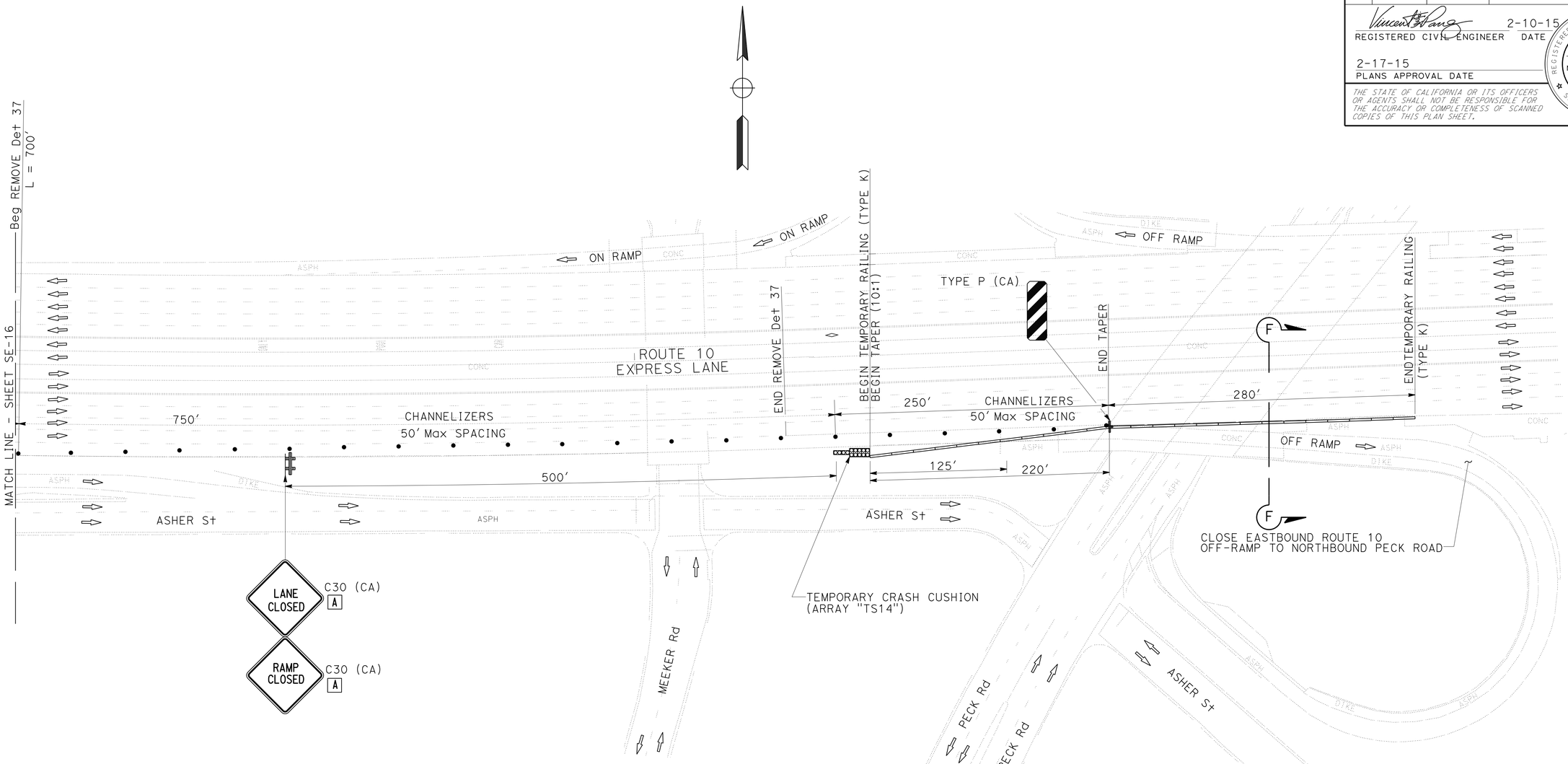

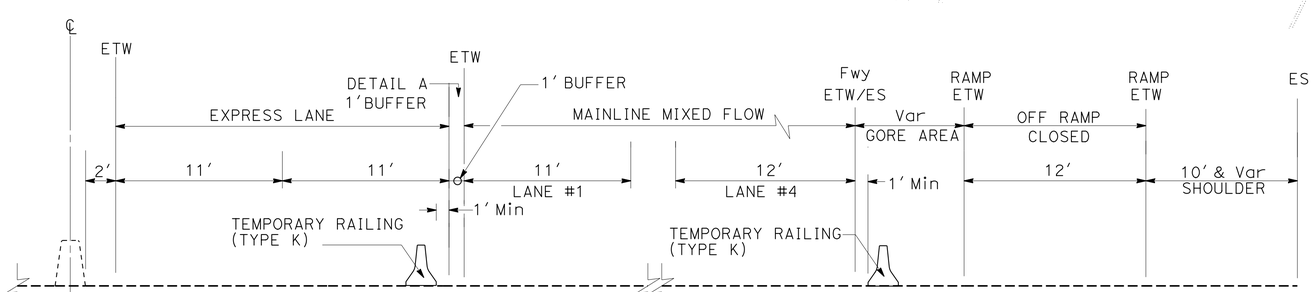

SECTION F-F
EASTBOUND ROUTE 10

EXIT RAMP CLOSURE

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 1 AND 2
NO SCALE

SC-17

REVISED BY	DATE REVISED
VINCENT PANG	BIPIN PATEL
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	LARRY WIERING

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 02-17-15 | DATE PLOTTED => 03-MAR-2015 | TIME PLOTTED => 20:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	23	53

REGISTERED CIVIL ENGINEER 1/14/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALI R. BAMSHAD No. C48134 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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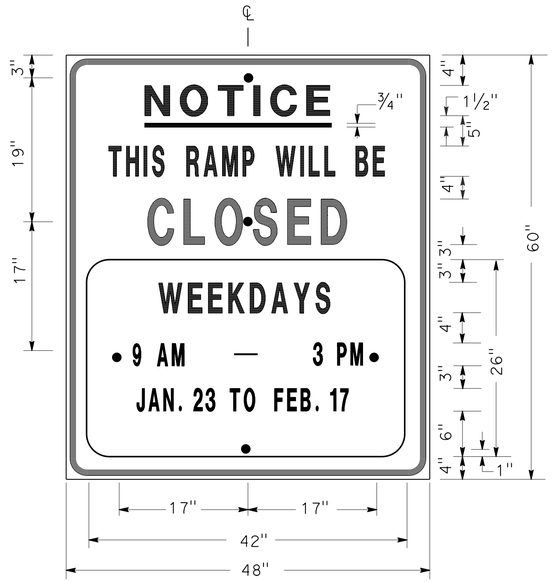
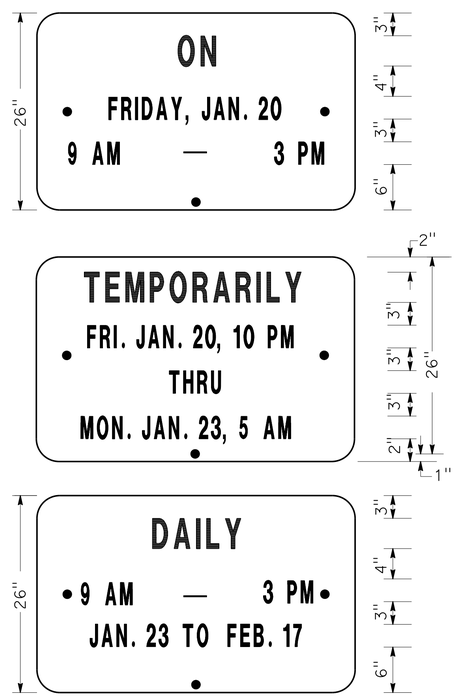


SIGN SP-1



ALTERNATE OVERLAY PANELS (TYPICAL)

SPECIAL ADVANCE NOTICE PUBLICITY SIGN

NOTES: SIGN SP-1

1. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
2. BOLT HOLES MUST BE 3/8" DIAMETER.
3. BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
4. SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.

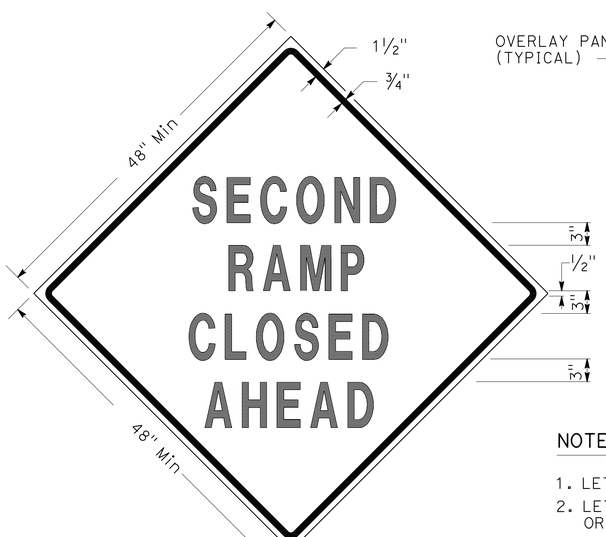
SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5, 6, & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"
* CONDENSED SPACING IF NECESSARY								

SIGN SP-4

NOTES: SIGN SP-4

1. LETTERS - 6" SERIES C.
2. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED WHITE BACKGROUND.
3. BOLT HOLES MUST BE 3/8" DIAMETER.
4. BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
5. SIGNS MUST BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH REVISED STANDARD PLAN RSP T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES



SIGN SP-3

SIGN SP-5

NOTES: SIGNS SP-3 & SP-5

1. LETTERS - 6" SERIES D.
2. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
3. BOLT HOLES MUST BE 3/8" DIAMETER.
4. BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
5. SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.
6. SIGN SP-5 MUST BE USED IF THE OFF-RAMP TO BE CLOSED FOLLOWS A FREEWAY OFF-CONNECTOR.

SPECIAL SIGNS FOR EXIT RAMP CLOSURES

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS
SHEET 1 OF 2

NO SCALE

THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: ALI BAMSHAD
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION 02-17-15 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	24	53

REGISTERED CIVIL ENGINEER 1/14/15 DATE

2-17-15
PLANS APPROVAL DATE

ALI R. BAMSHAD No. C48134 Exp. 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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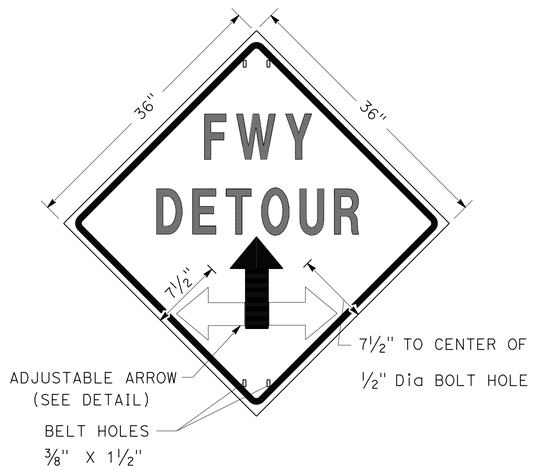
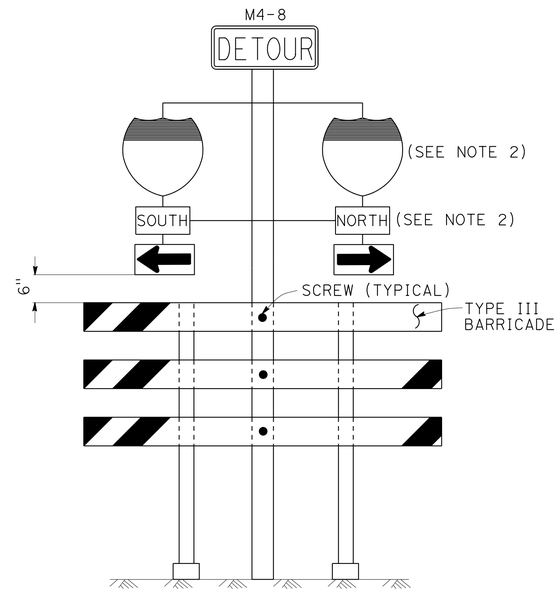
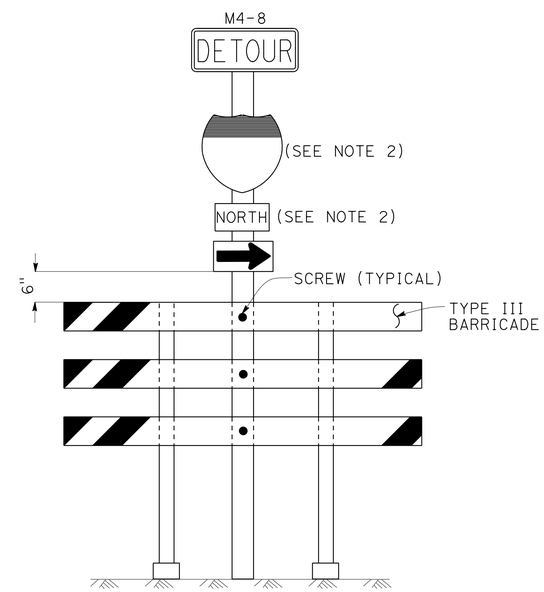


SIGN SP-2



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

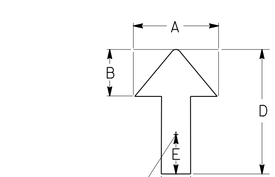
NOTES: SIGN SP-2

1. LETTERS - 6" SERIES E.
2. LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL FOR SIGNS AND ARROWS MUST BE ALUMINUM (MINIMUM 0.06").
4. BELTS (LUGGAGE STRAPS) MUST BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
5. SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

NOTES: SIGNS SP-6 & SP-7

1. IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
2. USE APPROPRIATE ROUTE MARKER [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)].

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



DIMENSIONS				
A	B	C	D	E
6"	3"	2"	8"	1"

ADJUSTABLE ARROW DETAIL

ABBREVIATION

(CA) CALIFORNIA CODE

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS

SHEET 2 OF 2

NO SCALE

THD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DTM

FUNCTIONAL SUPERVISOR: ALI BAMSHAD
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION: DATE PLOTTED => 18-FEB-2015 TIME PLOTTED => 22:49
02-17-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	25	53

REGISTERED CIVIL ENGINEER 1/14/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALI R. BAMSHAD No. C48134 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

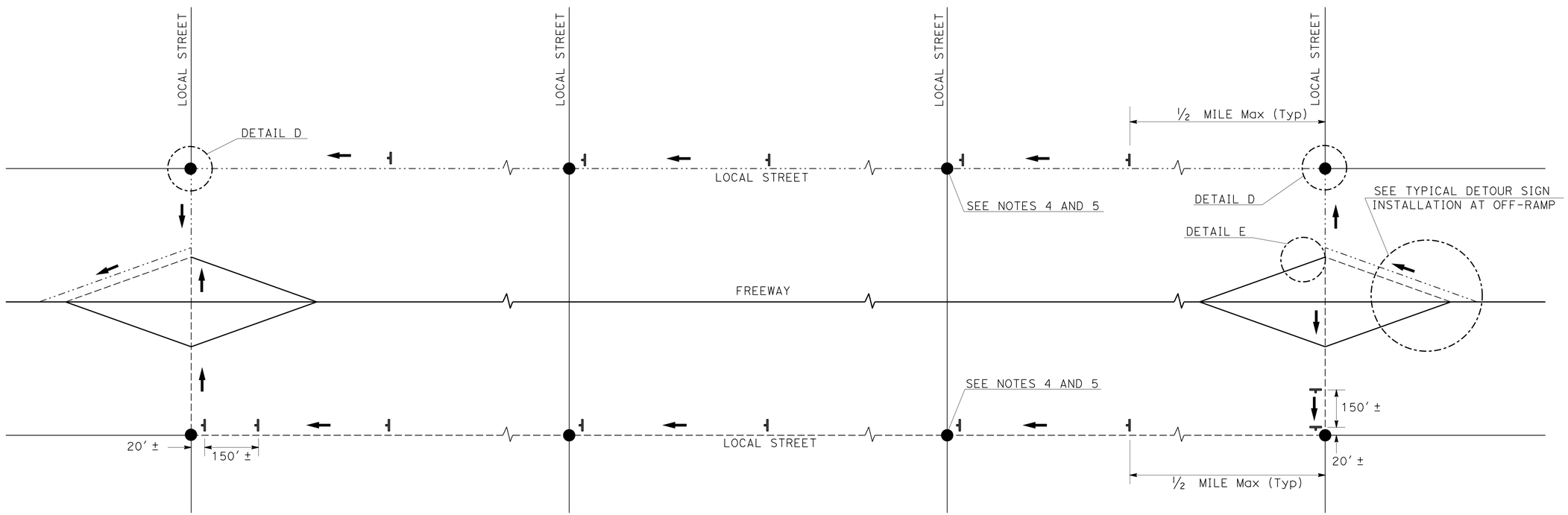
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

- SIGN SP-2
- AND/OR — DESIGNATED DETOUR ROUTE
- DETOUR DIRECTION
- CONTROLLED INTERSECTION

NOTES:

1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
4. SP-2 SIGNS MUST BE POSTED AT EACH CONTROLLED INTERSECTION (EXCEPT AT COMMERCIAL PROPERTY, RESIDENTIAL COMPLEX OR T-INTERSECTION FROM ONE-WAY STREET) ALONG THE DESIGNATED DETOUR ROUTE.
5. UNLESS OTHERWISE SHOWN ON OTHER THD PLANS, WHEN CONTROLLED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE ARE CLOSELY SPACED, PLACE SP-2 SIGNS AT CONTROLLED INTERSECTIONS AT A DISTANCE NOT TO EXCEED 1/4 MILE FROM THE PRECEDING DETOUR SIGN.
6. EXCEPT AS OTHERWISE SHOWN ON OTHER PLANS OR SPECIFIED IN THE SPECIAL PROVISIONS, SP-2 SIGNS MUST BE PLACED AS SHOWN ON THIS PLAN.



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

SHEET 1 OF 3

NO SCALE

THD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: ALI BAMSHAD
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION 02-17-15
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	26	53

REGISTERED CIVIL ENGINEER 1/14/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALI R. BAMSHAD No. C48134 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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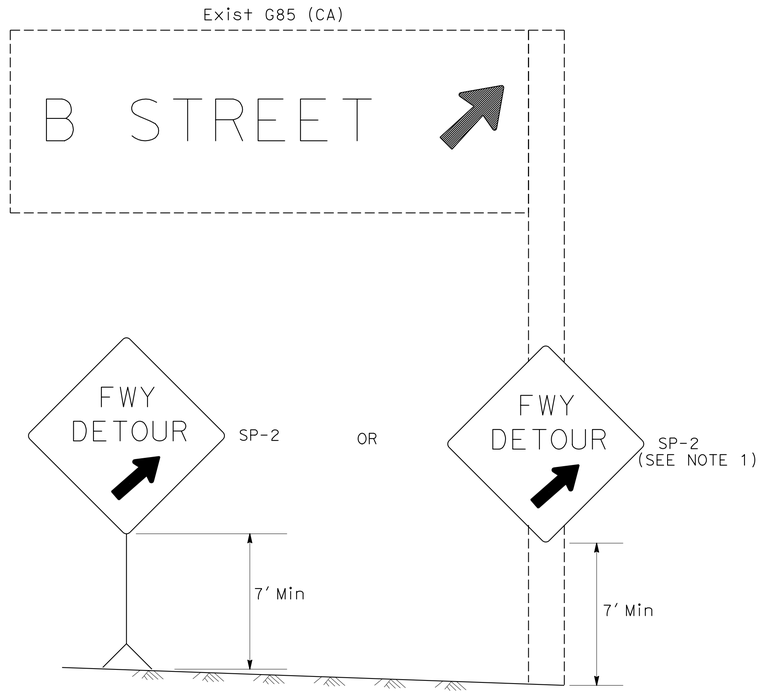
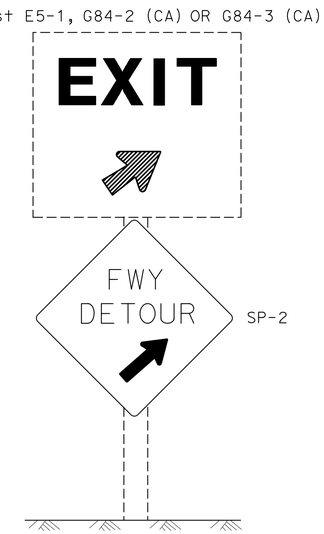
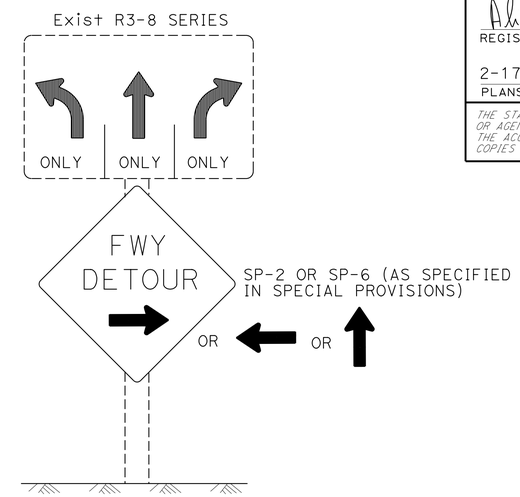


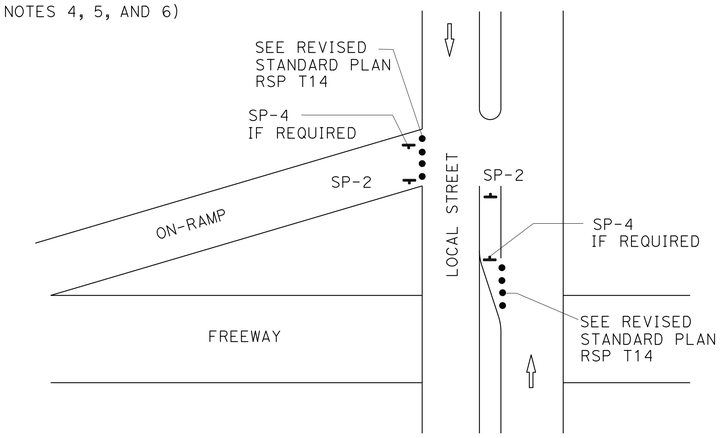
DETAIL A (SEE NOTE 3)



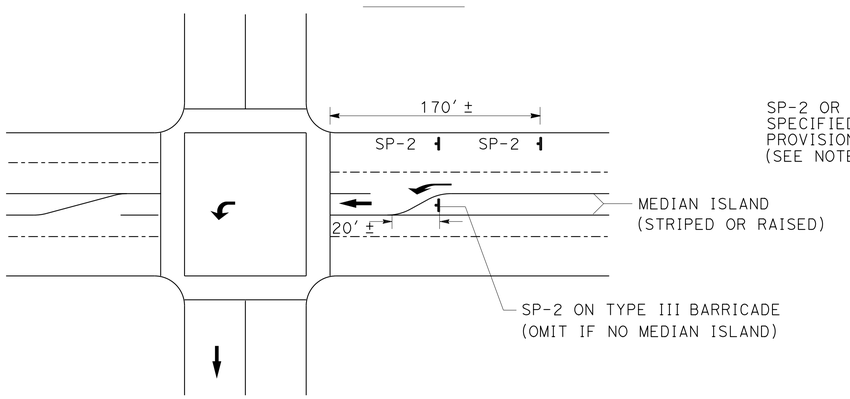
DETAIL B (SEE NOTE 3)



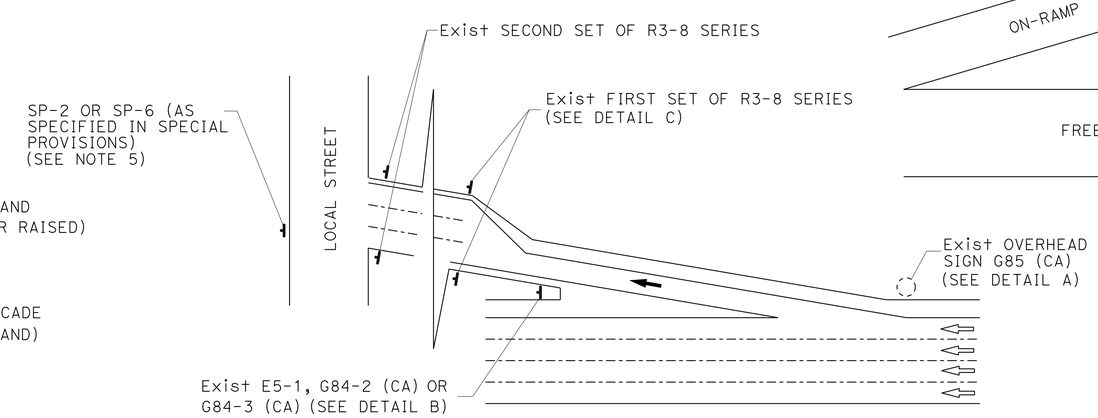
DETAIL C (SEE NOTES 4, 5, AND 6)



DETAIL E



DETAIL D



TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

LEGEND

- • TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- → DETOUR DIRECTION
- ◌ EXISTING OVERHEAD SIGN

NOTES: SIGN SP-2

1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. OMIT DETAILS A AND B FOR FULL FREEWAY CLOSURES.
4. SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-6 SIGN DETAILS.
5. IF R3-8 SERIES SIGNS ARE NOT PRESENT AT THE OFF-RAMP, SP-2 OR SP-6 SIGNS MUST BE FASTENED ONTO EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
6. EXCEPT FOR DETAILS A & B, OMIT SP-2 SIGNS IF RAMP HAS MANDATORY SINGLE MOVE.

SIGN CODE LEGEND

XXYY-Y: FEDERAL SIGN CODE PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

XXYY-Y (CA): CALIFORNIA SIGN CODE PER CALIFORNIA MUTCD

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE
SHEET 2 OF 3

NO SCALE

THD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: ALI BAMSHAD
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION 02-17-15 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 23:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	27	53

REGISTERED CIVIL ENGINEER 1/14/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALI R. BAMSHAD No. C48134 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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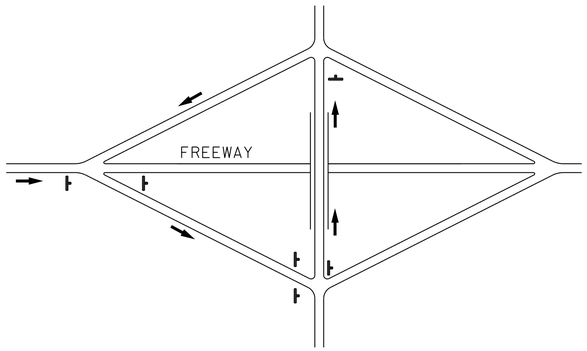
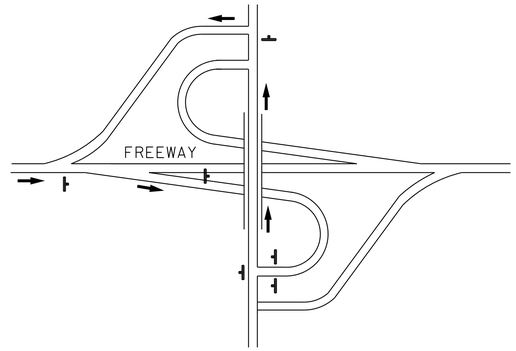


TYPE I



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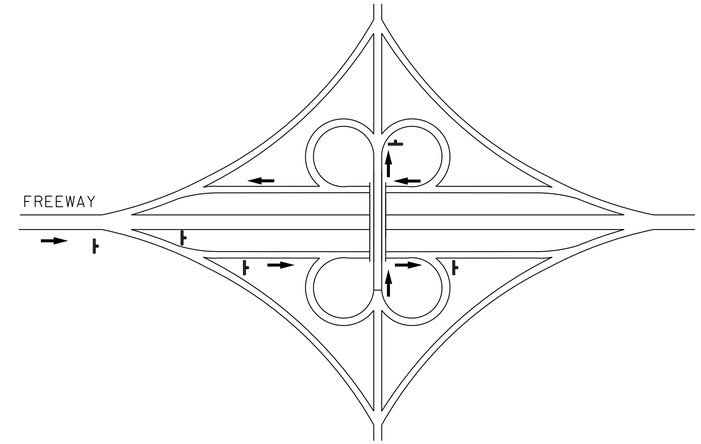

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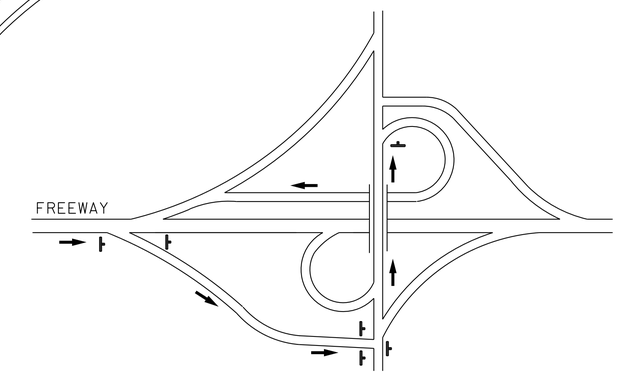

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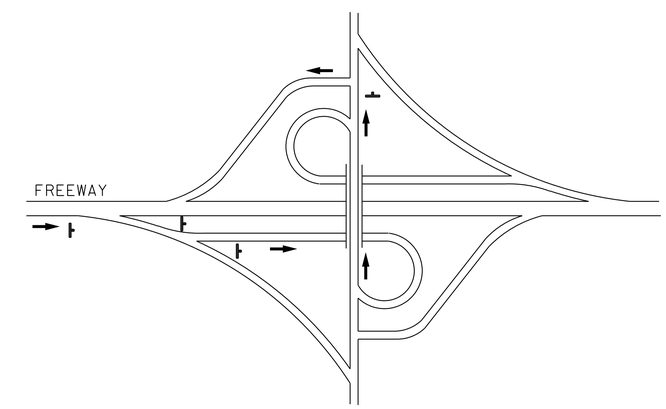
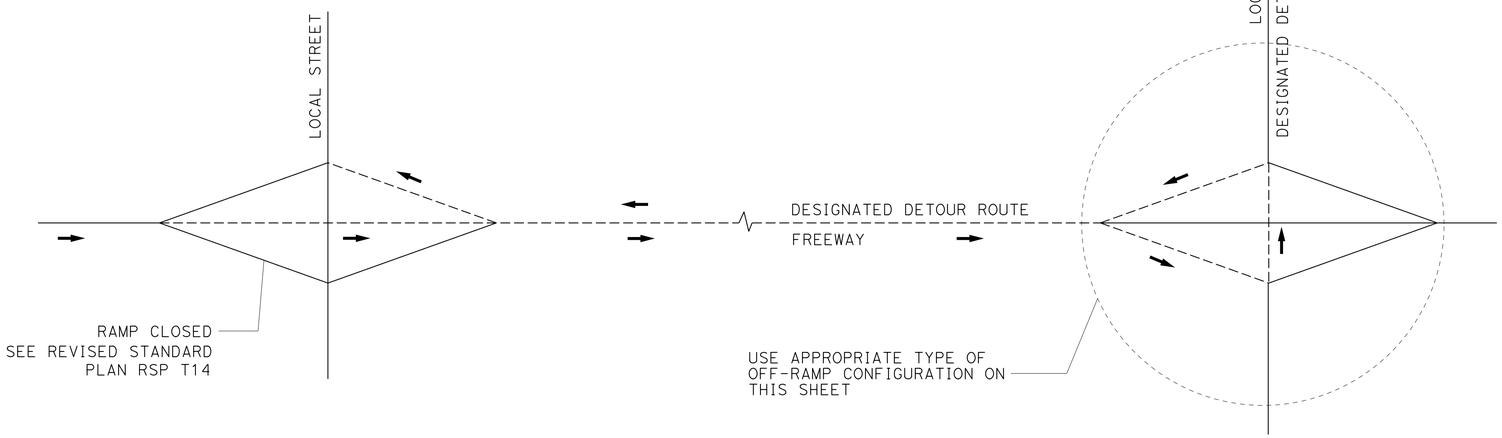


TYPE V



TYPE OF OFF-RAMP CONFIGURATION	MINIMUM No. OF SP-2
TYPE I	6
TYPE II	6
TYPE III	5
TYPE IV	6
TYPE V	4

TYPICAL DETOUR SIGN INSTALLATION FOR OFF-RAMP CLOSURE

NOTES:

1. FOR RAMP CONFIGURATIONS NOT SHOWN, THE EXACT LOCATIONS AND MINIMUM NUMBER OF SP-2 SIGNS MUST BE DETERMINED BY THE ENGINEER.
2. SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-2 SIGN DETAILS.

LEGEND

- SIGN SP-2
- DETOUR DIRECTION
- ----- DESIGNATED DETOUR ROUTE

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE
SHEET 3 OF 3

NO SCALE

THD-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: ALI BAMSHAD
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION 02-17-15 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	28	53

REGISTERED CIVIL ENGINEER DATE 1/14/15

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALI R. BAMSHAD No. C48134 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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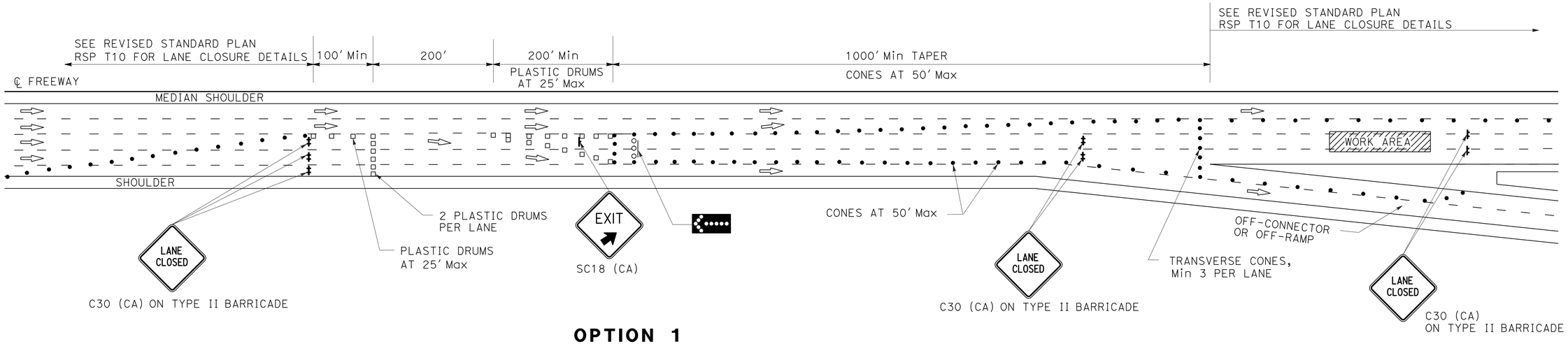
LEGEND

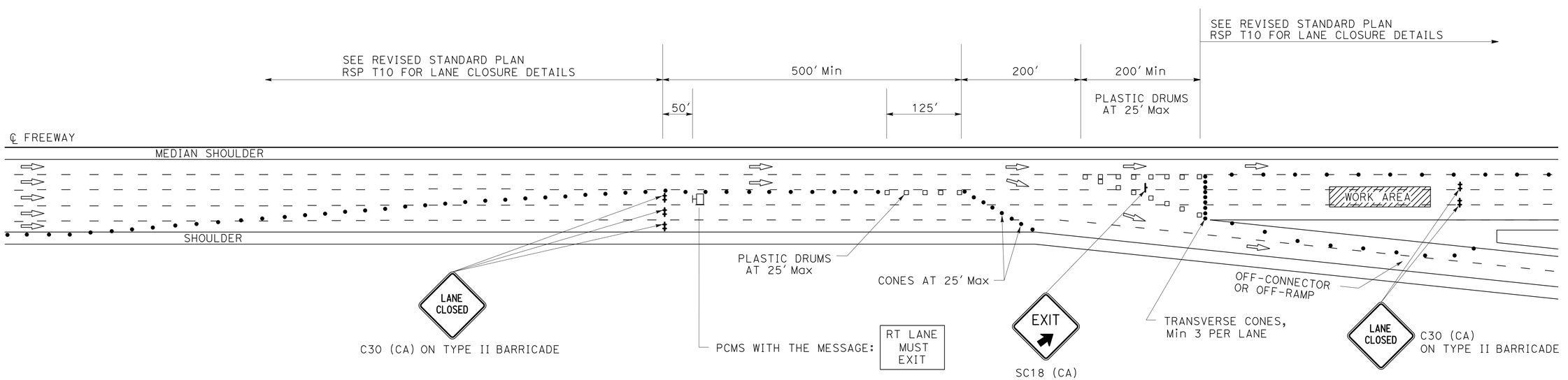
- TRAFFIC CONE
- TRAFFIC PLASTIC DRUM
- TEMPORARY TRAFFIC CONTROL SIGN
- BARRICADES
- PCMS
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER

ABBREVIATIONS

(CA) CALIFORNIA CODE



OPTION 1



OPTION 2

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR SLIP-RAMP AT OFF-CONNECTOR OR OFF-RAMP

NO SCALE

THD-6

REVISED BY	DATE REVISED
JC	2/14

ALBERT K YU — JOCELYN C CHIANG

CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: ALI BAMSHAD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DTM — Caltrans

LAST REVISION 02-15-17 — DATE PLOTTED => 18-FEB-2015 — TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	29	53

REGISTERED CIVIL ENGINEER 1/14/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALI R. BAMSHAD No. C48134 Exp. 6-30-16 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:

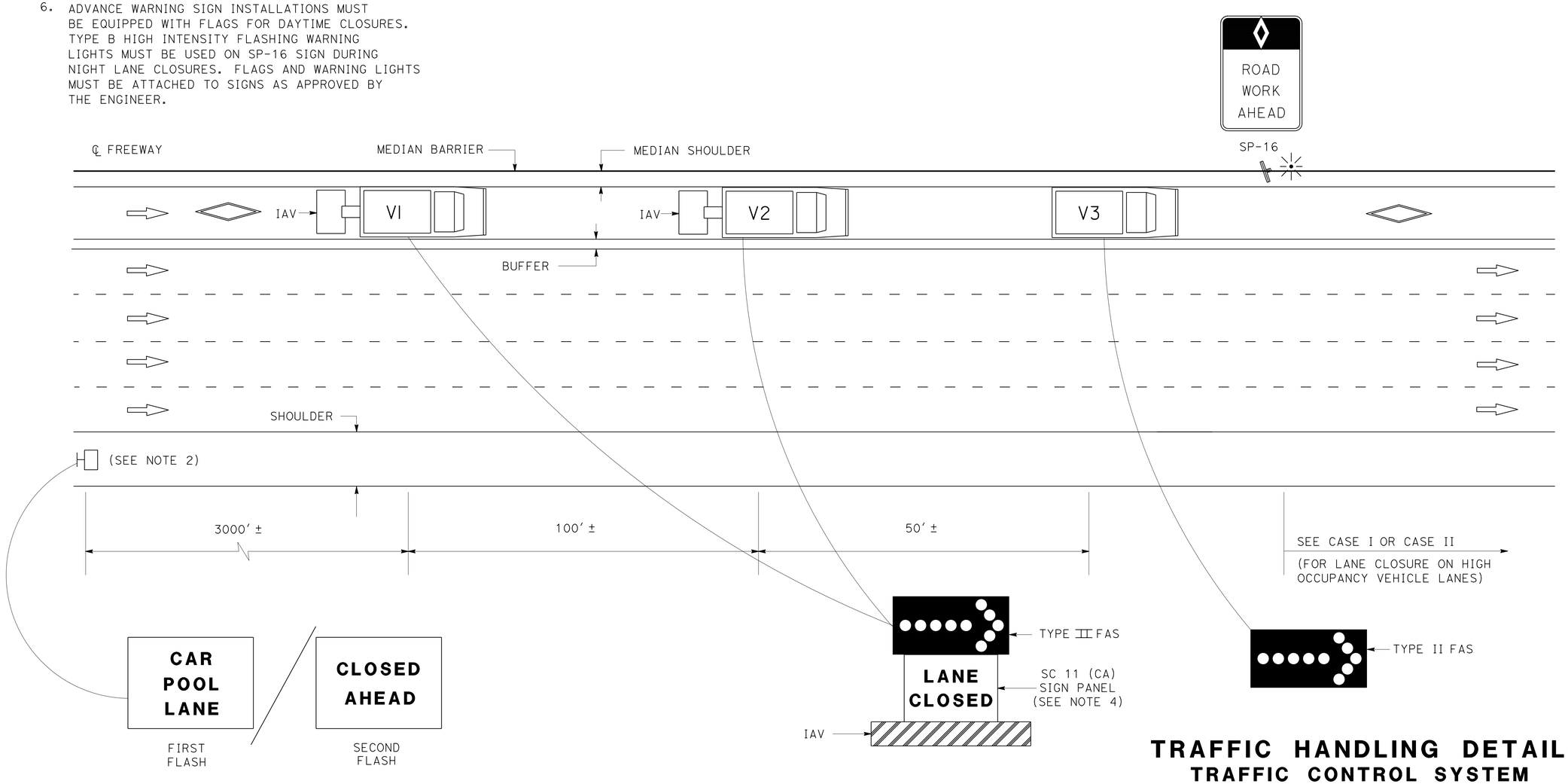
1. LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS MUST BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500′ MUST BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS MUST BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.
5. PLACE PCMS ON THE MEDIAN SHOULDER WHERE SUFFICIENT ROOM (SUCH AS CHP ENFORCEMENT AREAS) EXISTS.
6. ADVANCE WARNING SIGN INSTALLATIONS MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON SP-16 SIGN DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.

LEGEND

V1, V2	SHADOW VEHICLES
V3	WORK/APPLICATION VEHICLE
	PCMS
	PORTABLE FLASHING BEACON
	TEMPORARY TRAFFIC CONTROL SIGN
	FLASHING ARROW SIGN (FAS)

ABBREVIATIONS

IAV	IMPACT ATTENUATOR VEHICLE
(CA)	CALIFORNIA CODE
CHP	CALIFORNIA HIGHWAY PATROL



PCMS OR TRUCK MOUNTED CMS MESSAGE

(SEE NOTE 5)

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR HIGH OCCUPANCY VEHICLE LANES WITH MEDIAN SHOULDERS LESS THAN 8 FEET

NO SCALE

THD-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DTM

FUNCTIONAL SUPERVISOR: ALI BAMSHAD
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION 02-17-15 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	30	53

REGISTERED CIVIL ENGINEER 1/14/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALI R. BAMSHAD No. C48134 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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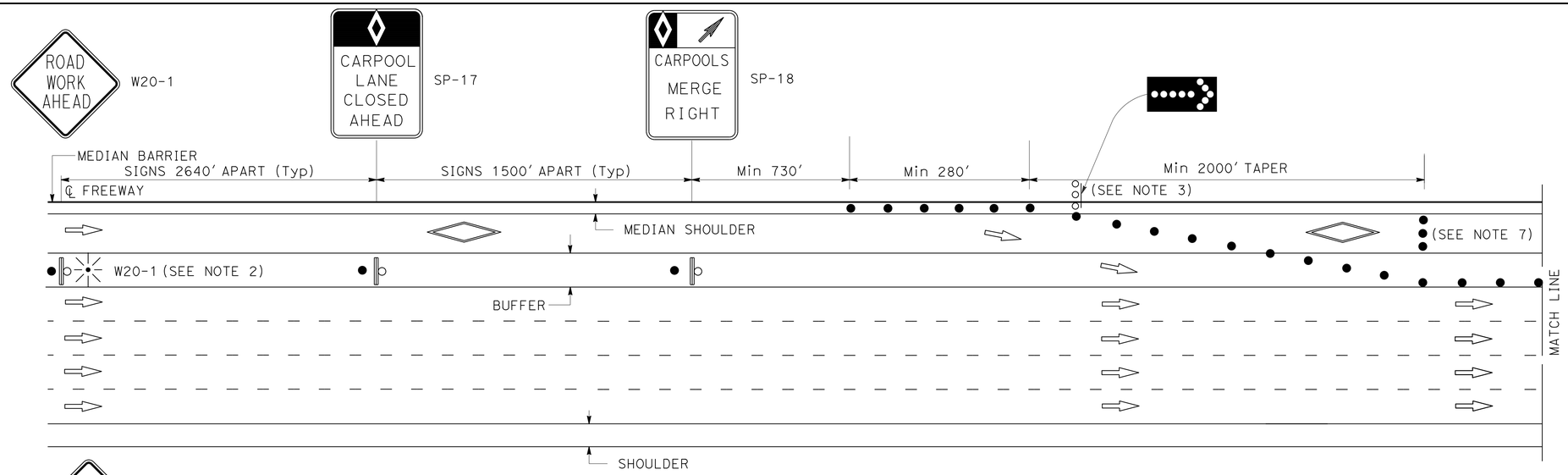

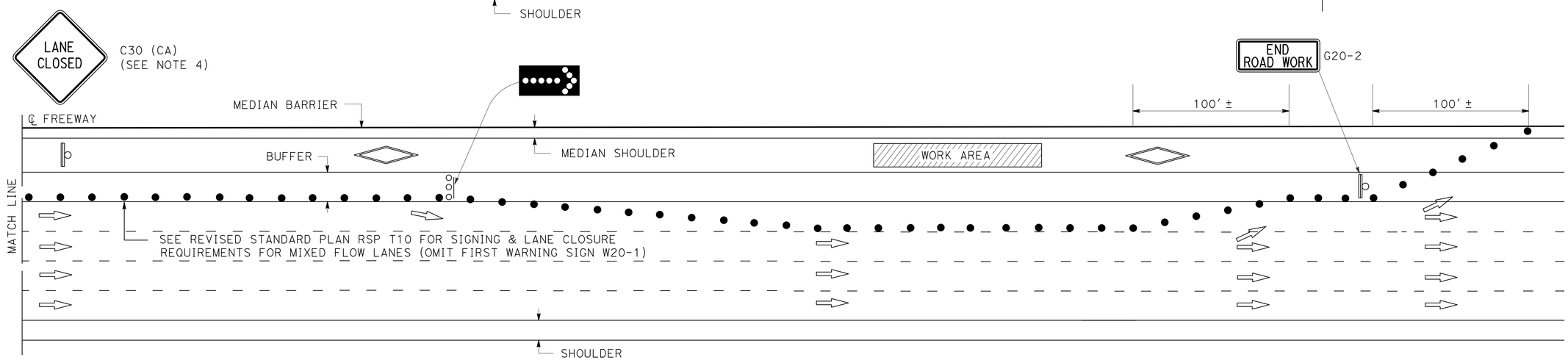

NOTES:

1. AT LEAST ONE PERSON MUST BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON NIGHT LANE CLOSURES OR DAY-TIME CLOSURES EXCEEDING 1 MILE LENGTH, INCLUDING TAPERS.
2. ADVANCE WARNING SIGN INSTALLATIONS MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON W20-1 SIGNS DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
3. THE FLASHING ARROW SIGN MUST BE TYPE I.
4. PLACE C30 (CA) SIGNS EVERY 2000′ THROUGHOUT THE LENGTH OF LANE CLOSURES.
5. A MINIMUM 1500′ OF SIGHT DISTANCE MUST BE PROVIDED WHERE POSSIBLE FOR VEHICLES APPROACHING FLASHING ARROW SIGNS. LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
6. PORTABLE DELINEATORS PLACED AT ONE-HALF THE SPACING INDICATED FOR TRAFFIC CONES MAY BE USED INSTEAD OF CONES FOR DAYTIME CLOSURES.
7. A MINIMUM OF 3 CONES MUST BE PLACED TRANSVERSELY ACROSS CLOSED LANES WHERE TAPERS END AND EVERY 2000′. TWO TYPE II BARRICADES MAY BE USED INSTEAD OF 3 CONES. THE ALIGNMENT OF CONES OR BARRICADES MAY BE SHIFTED FROM THE TRANSVERSE ALIGNMENT TO PROVIDE ACCESS TO WORK.
8. SIGNS SP-17, SP-18, AND C30 (CA) MUST BE BLACK ON ORANGE BACKGROUND. DIAMONDS ON SIGNS MUST BE WHITE.
9. THE MAXIMUM SPACING BETWEEN CONES MUST BE APPROXIMATELY 50′ IN A TAPER AND 100′ ON TANGENT.

LEGEND

- TRAFFIC CONE
- PORTABLE FLASHING BEACON
- FLASHING ARROW SIGN (FAS)
- TEMPORARY TRAFFIC CONTROL SIGN
- FAS SUPPORT OR TRAILER

SIGN PANEL

SIZE (Min)

W20-1 48" X 48"
SP-17 36" X 54"
SP-18 36" X 48"
C30 (CA) 30" X 30"
G20-2 48" X 24"

ABBREVIATIONS

(CA) CALIFORNIA CODE

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR ROUTE 10 (EL MONTE BUSWAY)
AT NON-INGRESS/EGRESS AREAS
CASE I

NO SCALE

THD-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: ALI BAMSHAD
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION 02-17-15
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	31	53

REGISTERED CIVIL ENGINEER 1/14/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALI R. BAMSHAD No. C48134 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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LEGEND:

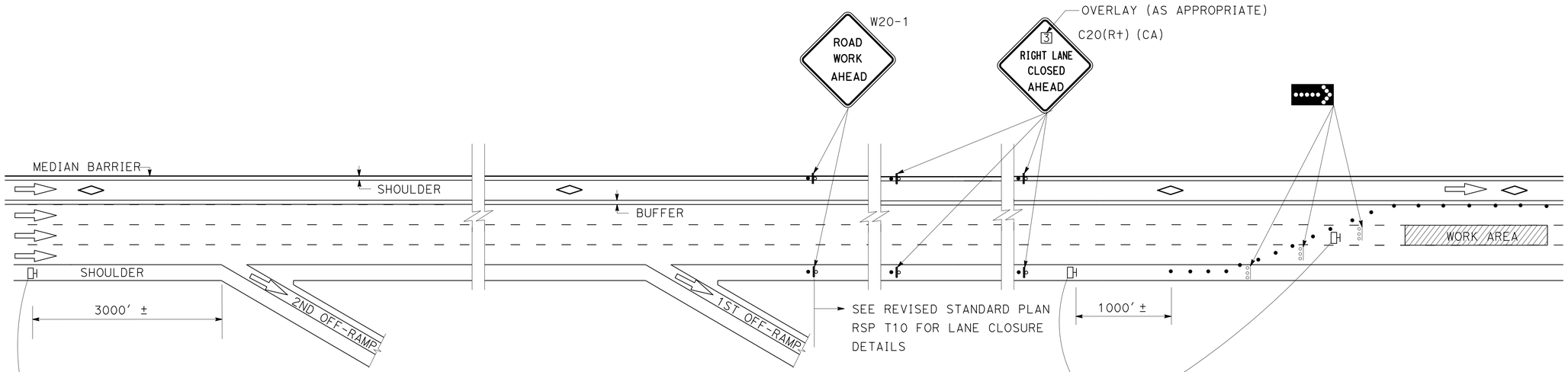
- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PCMS
- HOV LANE
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER

NOTES:

1. WORDING DISPLAYED ON PCMS WILL BE APPROVED BY THE ENGINEER.
2. EXACT LOCATIONS OF PCMS WILL BE DETERMINED BY THE ENGINEER.
3. CHANGE PCMS MESSAGE AT THE BEGINNING OF CURE PERIOD TO REFLECT NUMBER OF CLOSED LANES.

ABBREVIATIONS:

(CA) CALIFORNIA CODE



FIRST FLASH MESSAGE	X (NO OF LANES)RIGHT/LEFT	1ST LINE (TYPICAL)
	LANES	2ND LINE (TYPICAL)
	CLOSED	3RD LINE (TYPICAL)
SECOND FLASH MESSAGE	A ST	LIMIT OF CLOSURE (TYPICAL)
	TO	
	B DR	LIMIT OF CLOSURE (TYPICAL)

FIRST FLASH MESSAGE	ALL	1ST LINE (TYPICAL)
	TRAFFIC	2ND LINE (TYPICAL)
SECOND FLASH MESSAGE	OK USE	1ST LINE (TYPICAL)
	CARPOOL	2ND LINE (TYPICAL)
	LANE	3RD LINE (TYPICAL)

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
WITH HIGH OCCUPANCY VEHICLE LANES
FOR PORTABLE CHANGEABLE MESSAGE SIGN LOCATIONS
FOR CONCRETE PAVEMENT AND APPROACH SLAB REPLACEMENT

NO SCALE

THD-9

REVISED BY	DATE REVISED
JC	3/12

CALCULATED-DESIGNED BY: A HEDAYATI
CHECKED BY: MARTIN OREGEL
FUNCTIONAL SUPERVISOR: ALI BAMSHAD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

LAST REVISION 02-17-15
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	32	53

REGISTERED CIVIL ENGINEER — DATE 2-10-15

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BIPIN PATEL No. C60082 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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

LEGEND:

- CHANNELIZER
- TYPE II BARRICADES (3 EACH PER LANE)
- TYPE VI ARROWS PAVEMENT MARKING
- FLASHING ARROW SIGN (FAS)
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- (No.) TEMPORARY TRAFFIC STRIPE DETAIL NUMBER PER STANDARD PLANS (WITH NUMBER, OR NUMBER & LETTER)
- (X) TEMPORARY TRAFFIC STRIPE DETAIL NUMBER PER PAVEMENT DELINEATION DETAIL SHEET (WITH LETTER, OR NUMBER & LETTER)
- DIRECTION OF TRAVEL
- TEMPORARY SIGN
- PORTABLE FLASHING BEACON
- FAS SUPPORT OR TRAILER

SIGN CODE LEGEND:

XXX-XX	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD DESIGNATION)
XXX-XX(CA)	CALIFORNIA DESIGNATION

NOTES:

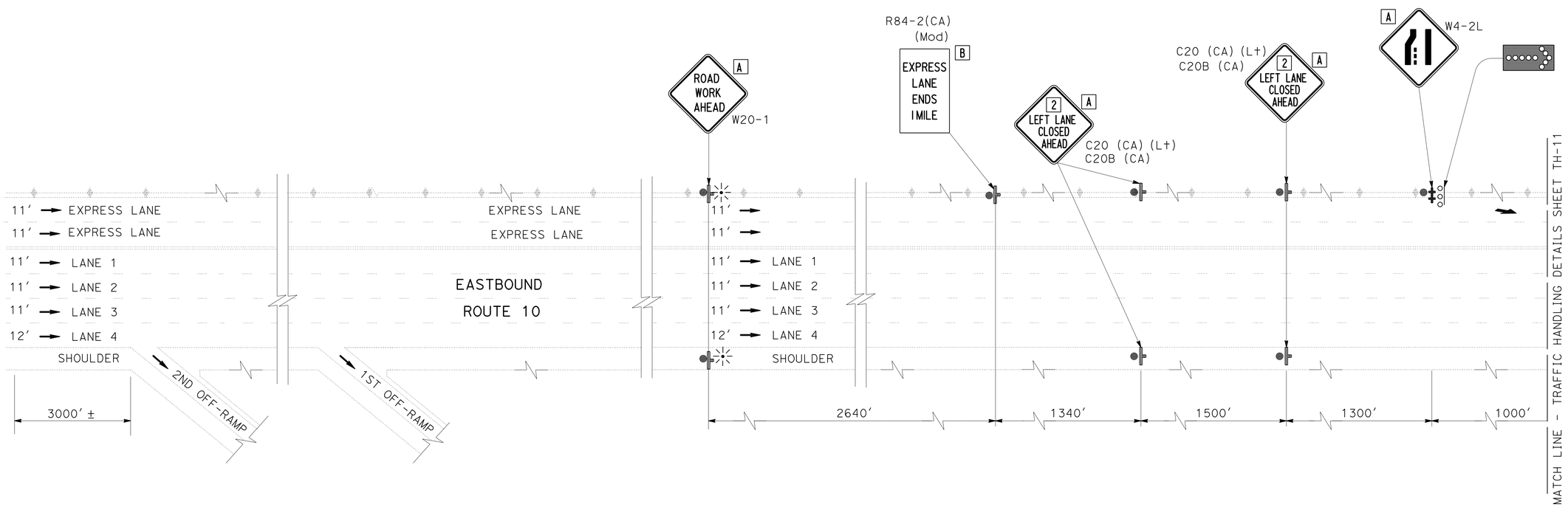
1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. EXACT LOCATIONS OF PCMS WILL BE DETERMINED BY THE ENGINEER.
3. CONFLICTING SIGNING AND PAVEMENT DELINEATION MUST BE REMOVED.
4. ONE TYPE I FLASHING ARROW SIGN FOR EACH LANE CROSSED.
5. ADVANCE WARNING SIGNS ON EACH SIDE OF THE ROADWAY MUST BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME CLOSURE. FLAGS MUST BE AT LEAST 16" X 16" AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE. FLASHING BEACONS SHALL BE PLACED AT THE LOCATIONS INDICATED FOR THE LANE CLOSURE DURING HOURS OF DARKNESS.
6. COVER CONFLICTING EXPRESS LANE SIGNS DURING CLOSURE.
7. WORDING DISPLAYED ON PCMS WILL BE APPROVED BY THE ENGINEER.

ABBREVIATIONS:

PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
(CA)	CALIFORNIA CODE

SIGN PANEL SIZE

- A 48" X 48"
- B 36" X 60"
- C 48" X 24"



TRAFFIC HANDLING DETAILS
EXPRESS LANE CLOSURE
NO SCALE

THD-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: GEHAN ATTALLAH
CHECKED BY: LARRY WIERING
REVISED BY / DATE REVISED

LAST REVISION 02-17-15 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	33	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BIPIN PATEL No. C60082 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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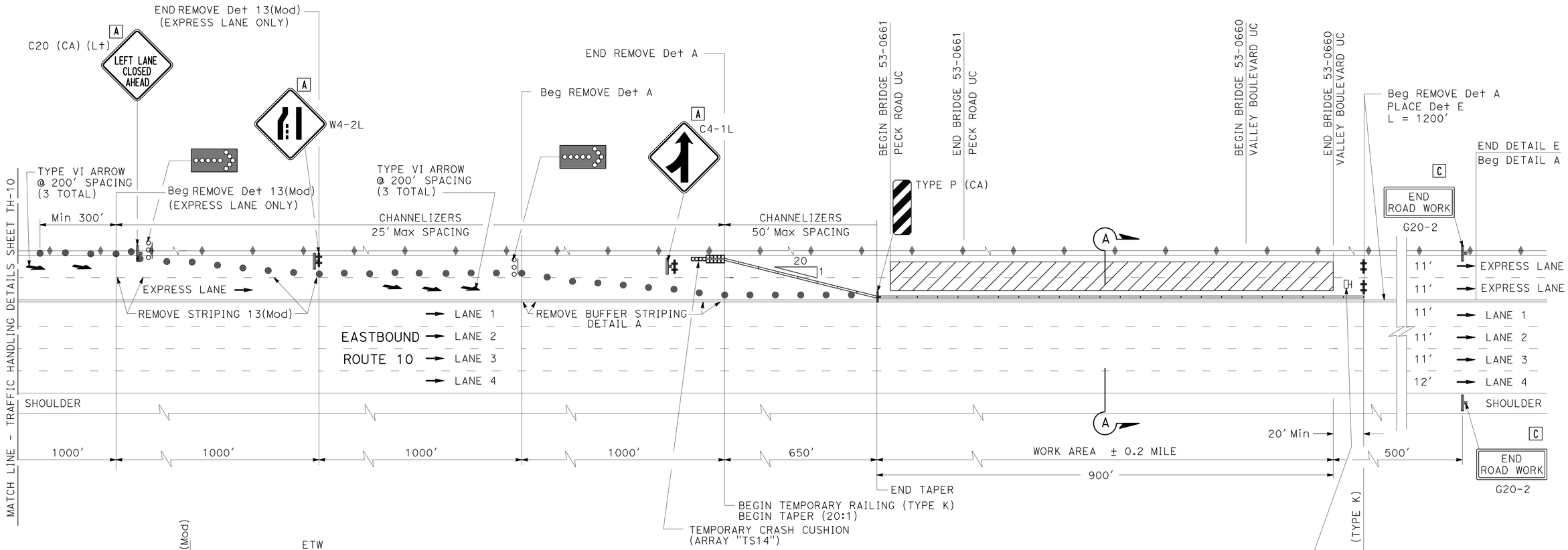
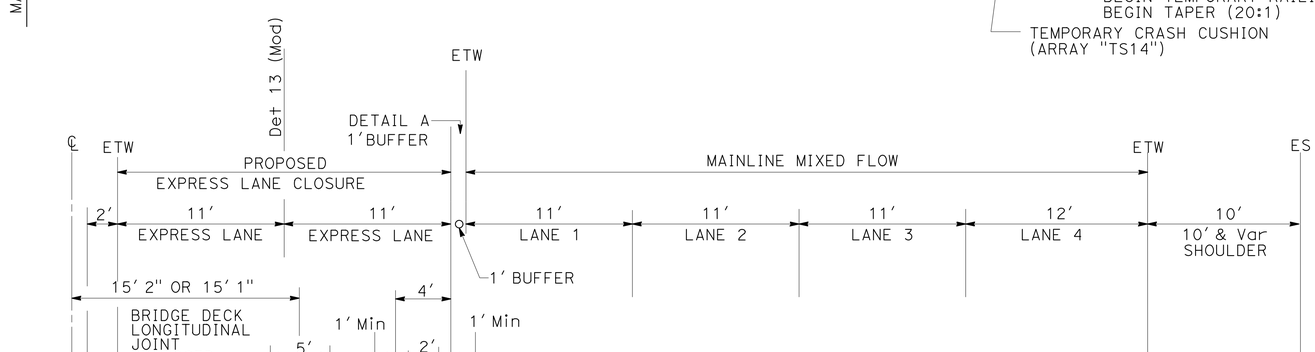


FIRST FLASH MESSAGE	BEGIN EXPRESS LANES ONLY



SECTION A-A
EASTBOUND ROUTE 10

TRAFFIC HANDLING DETAILS
EXPRESS LANE CLOSURE
NO SCALE

THD-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: GEHAN ATTALLAH
CHECKED BY: LARRY WIERING
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	34	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BIPIN PATEL No. C60082 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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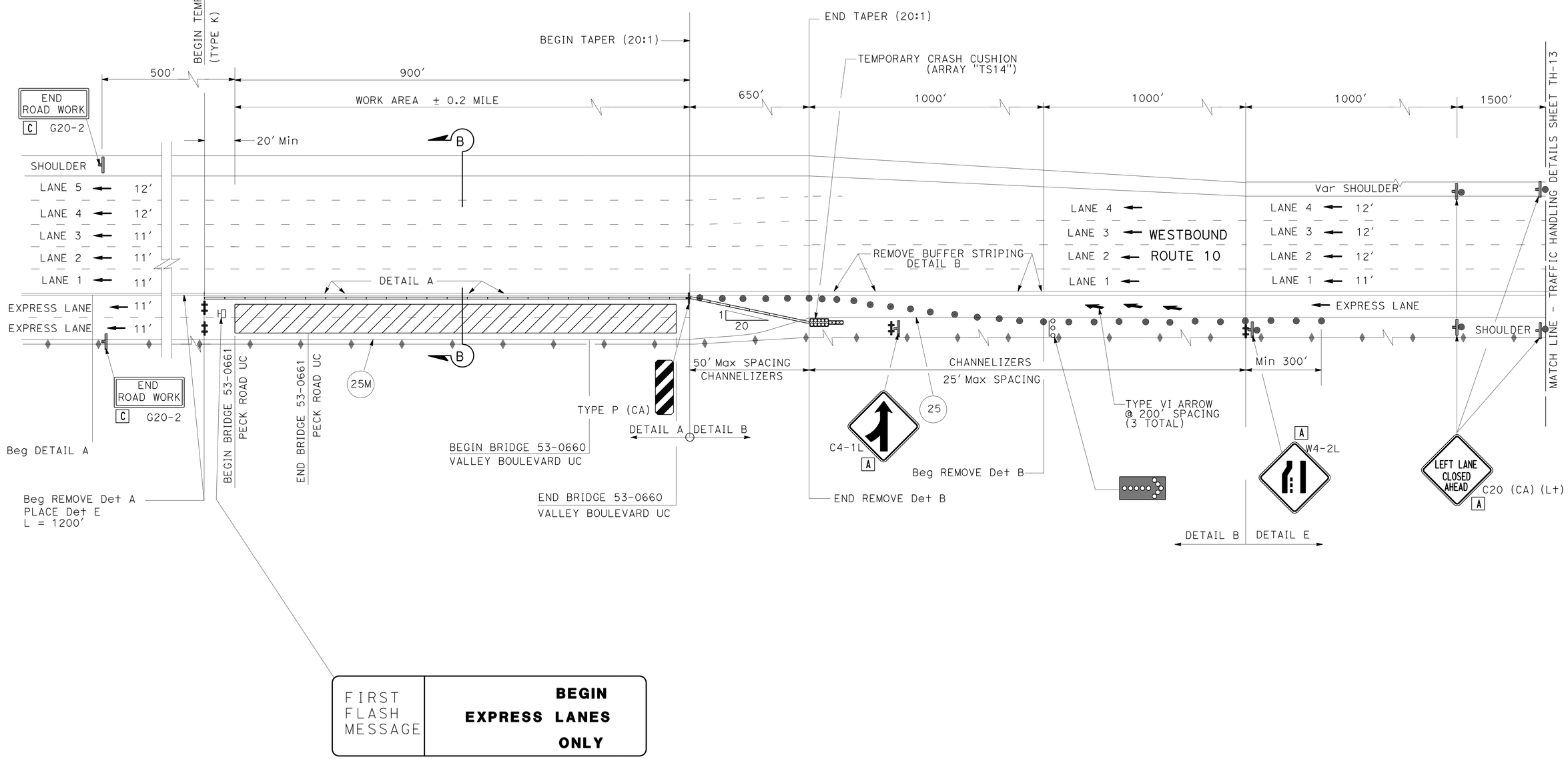

TRAFFIC HANDLING DETAILS
EXPRESS LANE CLOSURE
NO SCALE

THD-12

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
GEHAN ATTALLAH	LARRY WIERING

FUNCTIONAL SUPERVISOR: LARRY WIERING

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 02-17-15 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	35	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BIPIN PATEL No. C60082 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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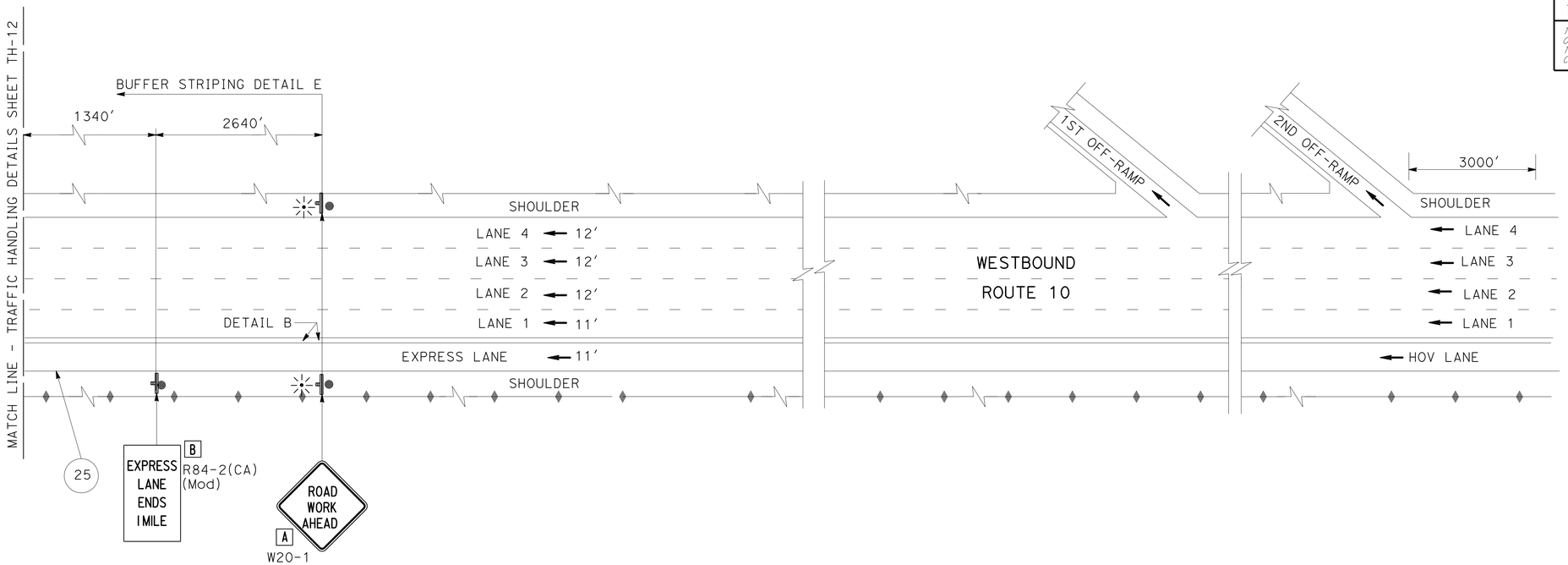

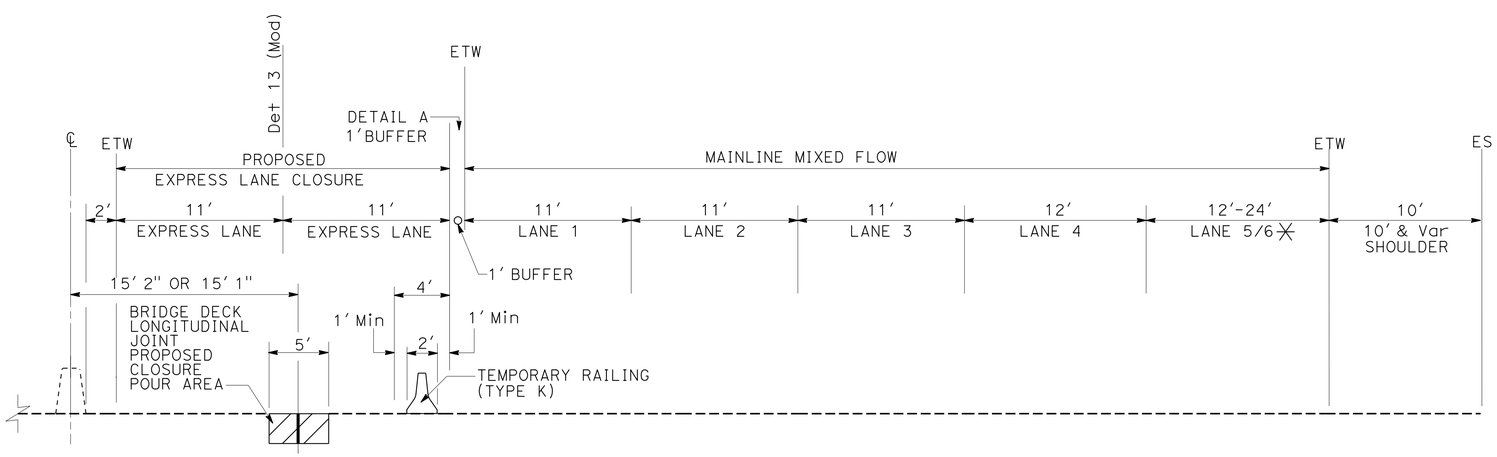

SECTION B-B

WESTBOUND ROUTE 10

NOTE:

✳ LANE 6 IS Aux LANE

TRAFFIC HANDLING DETAILS EXPRESS LANE CLOSURE

NO SCALE

THD-13

REVISED BY	DATE REVISED
GEHAN ATTALLAH	LARRY WIERING
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	LARRY WIERING

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 02-17-15 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	36	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BIPIN PATEL No. C60082 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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FREEWAY PAVEMENT DELINEATION REMOVAL QUANTITIES

SHEET No.	REMOVE THERMOPLASTIC TRAFFIC STRIPE				REMOVE PAVEMENT MARKER	
	4" (BROKEN 36-12)	8" (BROKEN 12-3)	8" SOLID WHITE	8" SOLID WHITE	(RETROREFLECTIVE)	(NON-REFLECTIVE)
	DETAIL 13 (Mod)	DETAIL 37	DETAIL A	DETAIL B	TYPE G	TYPE A
	LF	LF	LF	LF	EA	EA
THD-10						
THD-11	250		8,800		262	88
THD-12			4,800	4,000	240	
THD-13						
SC-16		20			4	
SC-17		280			52	
SUB-TOTAL	250	300	13,600	4,000	558	88
TOTAL	18,150				646	

TRAFFIC HANDLING QUANTITIES

THQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING

CALCULATED-DESIGNED BY: GEHAN ATTALLAH
CHECKED BY: LARRY WIERING

REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	37	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BIPIN PATEL No. C60082 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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TEMPORARY TRAFFIC HANDLING QUANTITIES

SHEET No.	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY TRAFFIC STRIPE (TAPE)			TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKING (TAPE)	CHANNELIZER (SURFACE MOUNTED)	TEMPORARY RAILING (TYPE K)	TEMPORARY CRASH CUSHION MODULE	REMARKS
	DETAIL E	DETAIL 37B	DETAIL 38	DETAIL 40	ARROWS (TYPE VI)	ARROWS (TYPE IV)				
	LF	LF	LF	LF	SQFT	SQFT	EA	LF	EA	
THD-10					42					EASTBOUND EXPRESS LANE CLOSURE
THD-11	1,200				210		146	1,360	14	
THD-12	1,200				126		107	1,140	14	WESTBOUND EXPRESS LANE CLOSURE
THD-13										
SC-1				235			70			STAGE 1 VALLEY BOULEVARD AND PECK ROAD LANE CLOSURE
SC-2							97			
SC-3							4			
SC-4							36			
SC-5							72			
SC-6							21			
SC-7							17			
SC-8				116			54			STAGE 2 VALLEY BOULEVARD AND PECK ROAD LANE CLOSURE
SC-9							68			
SC-10							39			
SC-11		100	80			15	18			
SC-12							83			
SC-13							21			
SC-14							18			
SC-15							18	420	14	WESTBOUND RAMP CLOSURE
SC-16					126		1			EASTBOUND RAMP CLOSURE
SC-17							21	500	14	
SUB-TOTAL	2,400	100	80	351	504	15	911	3,420	56	
TOTAL	2,400	531			504	15	911	3,420	56	

TRAFFIC HANDLING QUANTITIES

THQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: GEHAN ATTALLAH
CHECKED BY: LARRY WIERING
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 13:05

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	38	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BIPIN PATEL No. C60082 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

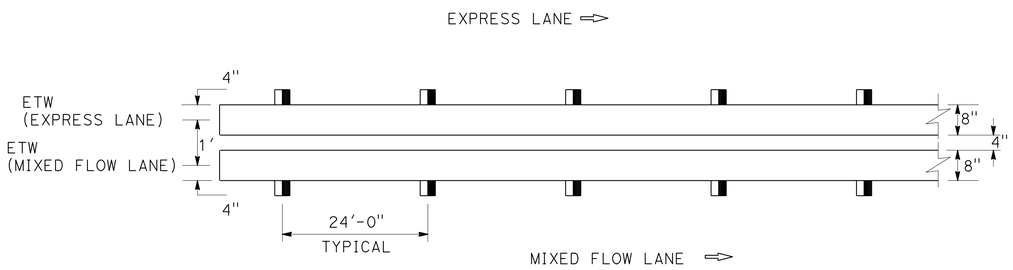
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

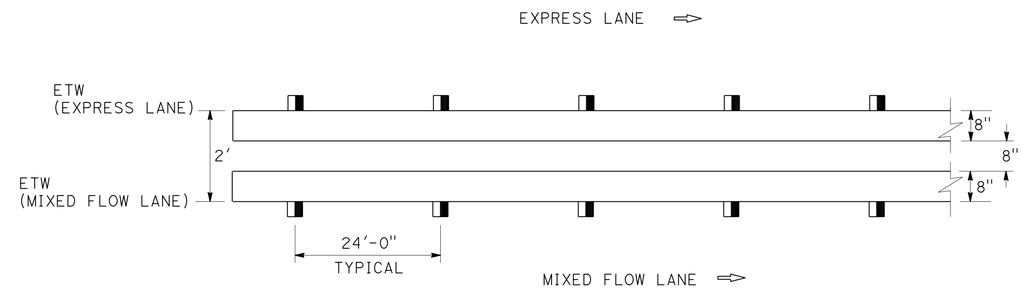
SEE PAVEMENT DELINEATION QUANTITIES FOR LOCATION AND TYPES OF TRAFFIC STRIPES AND PAVEMENT MARKINGS TO BE PLACED.

LEGEND:

- TYPE G PAVEMENT MARKER
- TYPE H PAVEMENT MARKER
- DIRECTION OF TRAVEL
- 8" WHITE THERMOPLASTIC STRIPE



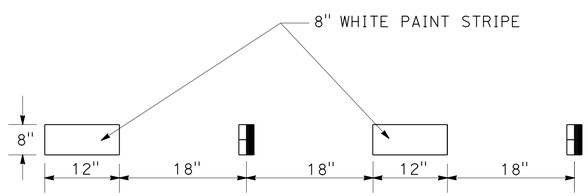
DETAIL A
BUFFER WIDTH-1'



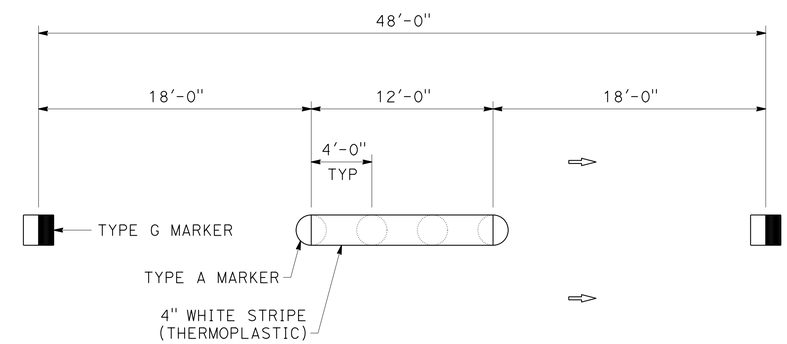
DETAIL B
BUFFER WIDTH-2'

BUFFER STRIPING DETAILS

BUFFER WIDTH-1' OR 2'



DETAIL E
INGRESS/EGRESS STRIPING DETAIL



NOTE:

THE ADDITION OF A 4" WIDE THERMOPLASTIC STRIPE 12' LONG ON TOP OF TYPE A, WHITE NON-REFLECTIVE MARKERS.

DETAIL 13 (MODIFIED)

PAVEMENT DELINEATION DETAILS

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: GEHAN ATTALLAH
CHECKED BY: LARRY WIERING
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 22:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	39	53

REGISTERED CIVIL ENGINEER 2-10-15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BIPIN PATEL No. C60082 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

SHEET No.	THERMOPLASTIC TRAFFIC STRIPE				PAVEMENT MARKER		REMARKS
	4" (BROKEN 36-12)	8" (BROKEN 12-3)	8" SOLID WHITE	8" SOLID WHITE	(RETROREFLECTIVE)	(NON-REFLECTIVE)	
	DETAIL 13 (Mod)	DETAIL 37	DETAIL A	DETAIL B	TYPE G	TYPE A	
	LF	LF	LF	LF	EA	EA	
THD-10							EASTBOUND EXPRESS LANE CLOSURE
THD-11	1,000		4,400		262	88	
THD-12			2,400	2,000	240		WESTBOUND EXPRESS LANE CLOSURE
THD-13							
SC-16					4		EASTBOUND RAMP CLOSURE
SC-17		700			52		
SUB-TOTAL	1,000	700	6,800	2,000	558	88	
TOTAL	1,000	700	8,800		558	88	

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: GEHAN ATTALLAH
CHECKED BY: LARRY WIERING
REVISED BY
DATE REVISED

LAST REVISION 02-17-15 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 22:49

M

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED,
	MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE,
	PRECAST
PCC	POINT OF COMPOUND CURVE,
	PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE,
	PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
₱,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE,
	TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE,
	PLASTIC PIPE,
	POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED,
	REINFORCEMENT,
	REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT,
	REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION,
	REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD,
	RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

S	SOUTH,
	SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND,
	SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL,
	SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK,
	SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE,
	TRAFFIC SIGNAL,
	TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE,
	DESIGN SPEED
Var	VARIABLE,
	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST,
	WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	40	53

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Grace M. Tsushima
No. C49814
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

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.

TO ACCOMPANY PLANS DATED 2-17-15

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft^3, pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	41	53

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Roberta L. McLaughlin No. C40375 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

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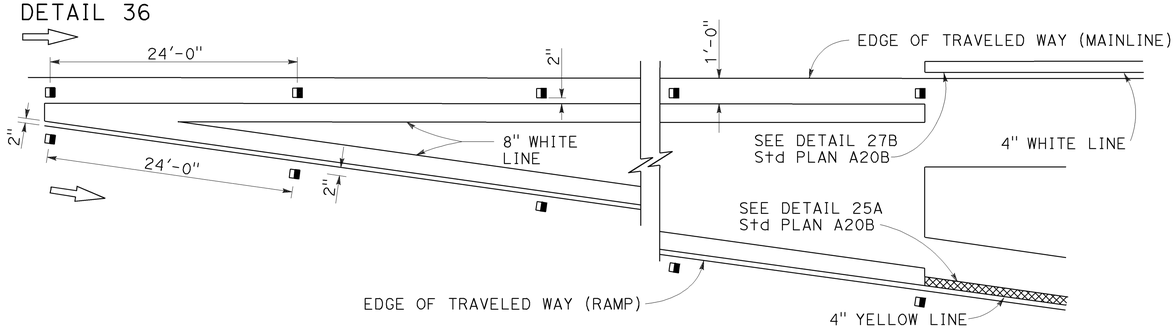
TO ACCOMPANY PLANS DATED 2-17-15

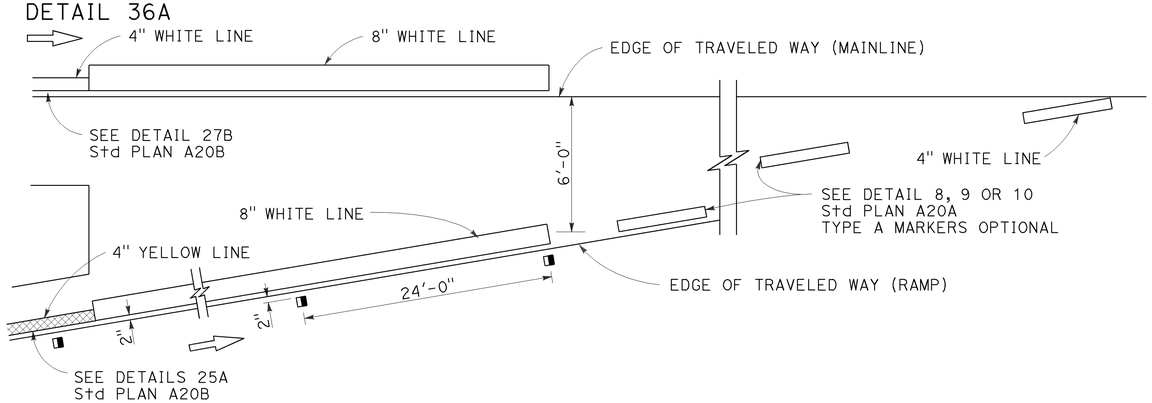
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

DETAIL 36



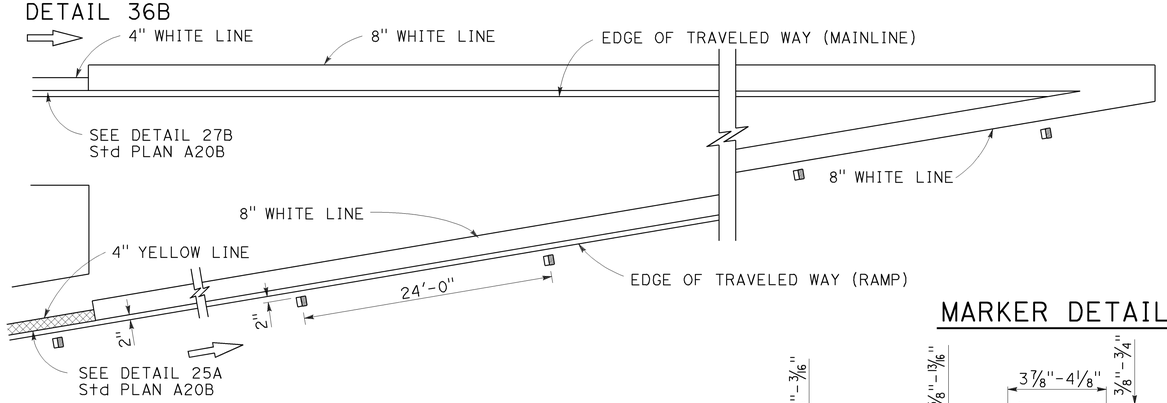
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

DETAIL 36A



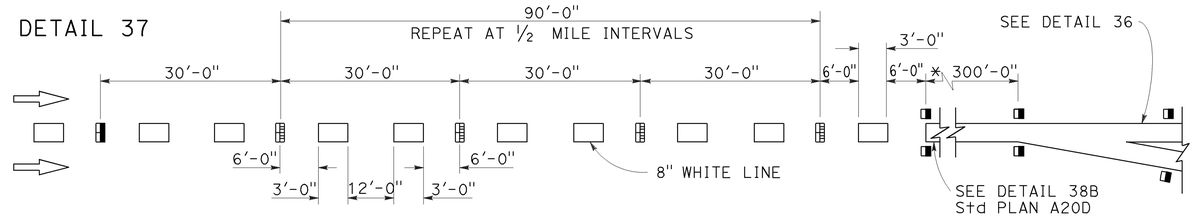
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

DETAIL 36B

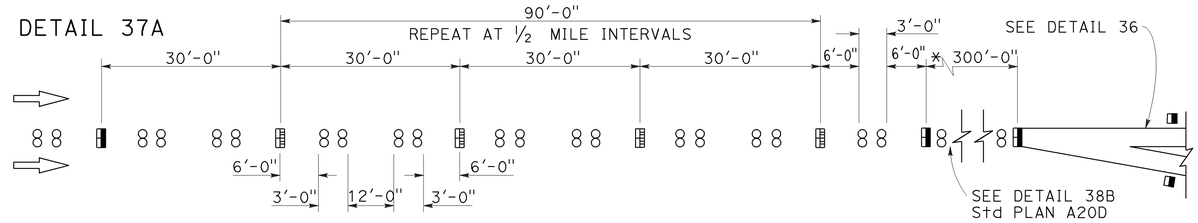


LANE DROP AT EXIT RAMPS

DETAIL 37



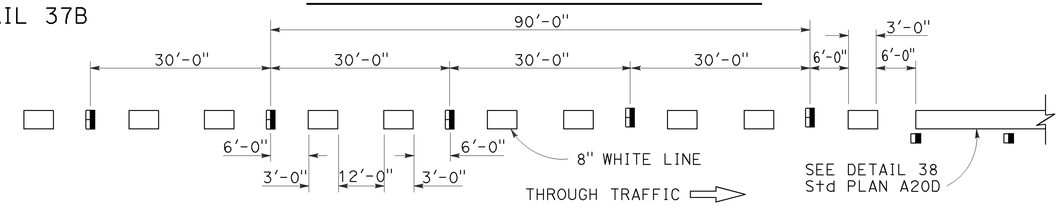
DETAIL 37A



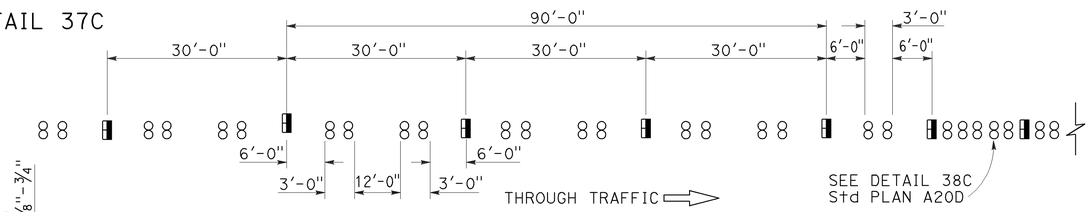
* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS

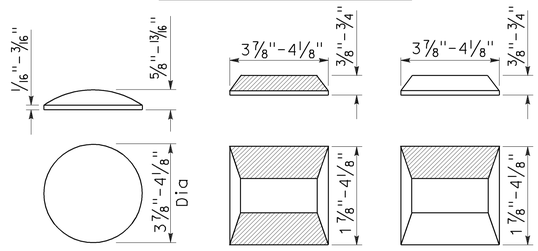
DETAIL 37B



DETAIL 37C



MARKER DETAILS



RETROREFLECTIVE FACE

LEGEND:

MARKERS

- ○ TYPE A WHITE NON-REFLECTIVE
- ⊟ TYPE C RED-CLEAR RETROREFLECTIVE
- ◨ TYPE G ONE-WAY CLEAR RETROREFLECTIVE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

4-29-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	42	53

REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

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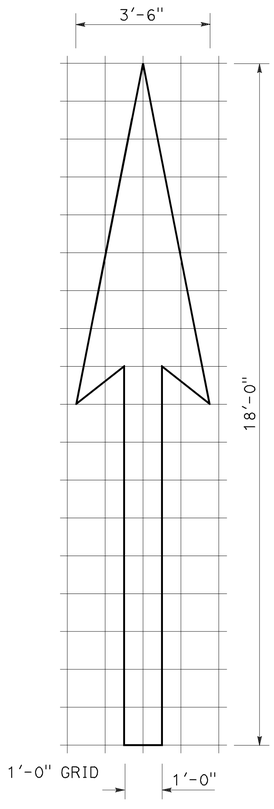
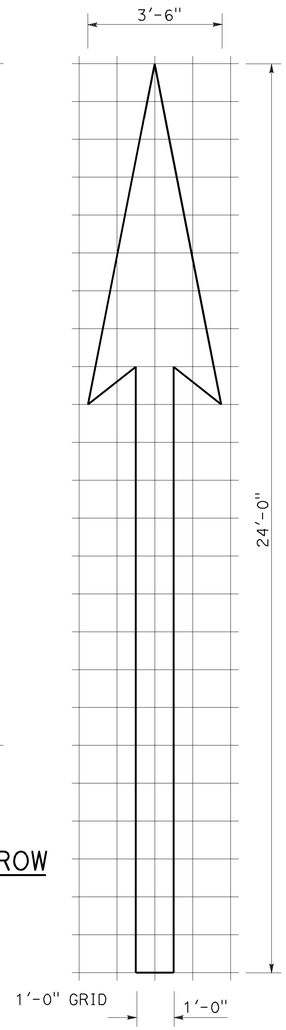
TO ACCOMPANY PLANS DATED 2-17-15



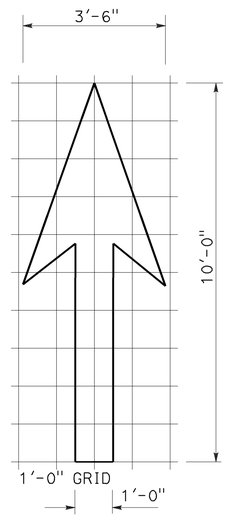
A=25 ft^2

TYPE I 18'-0" ARROW



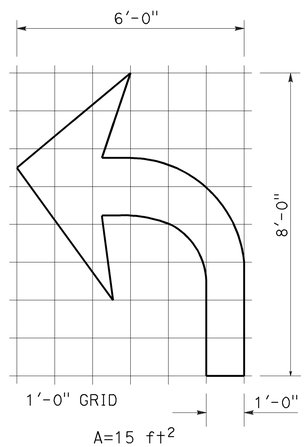
A=31 ft^2

TYPE I 24'-0" ARROW



A=14 ft^2

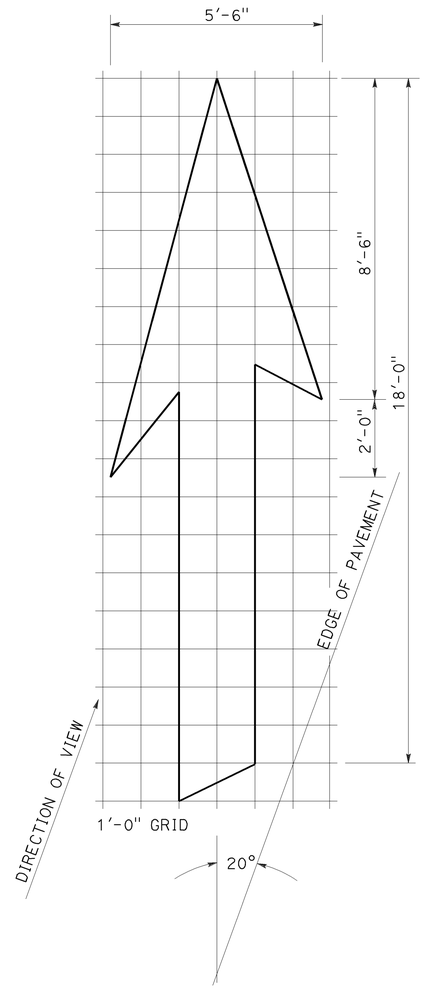
TYPE I 10'-0" ARROW



A=15 ft^2

TYPE IV (L) ARROW

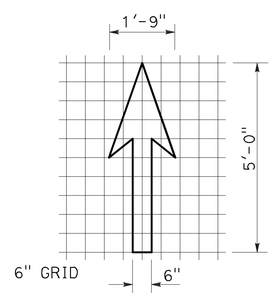
(For Type IV (R) arrow, use mirror image)



A=42 ft^2

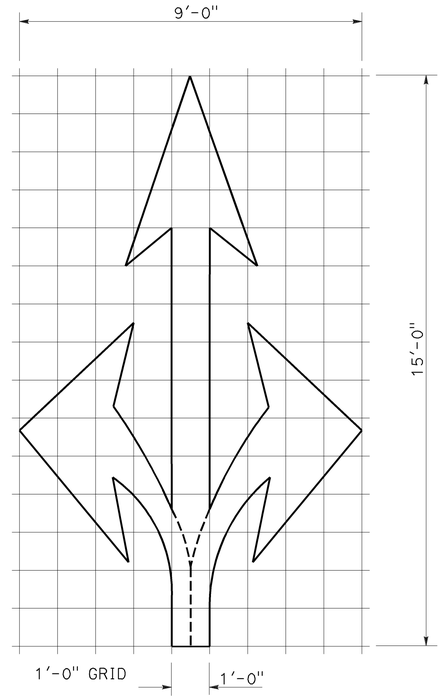
TYPE VI ARROW

Right lane drop arrow
(For left lane, use mirror image)



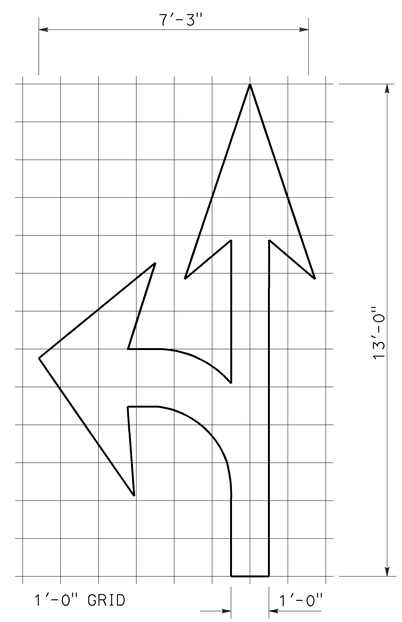
A=3.5 ft^2

BIKE LANE ARROW



A=36 ft^2

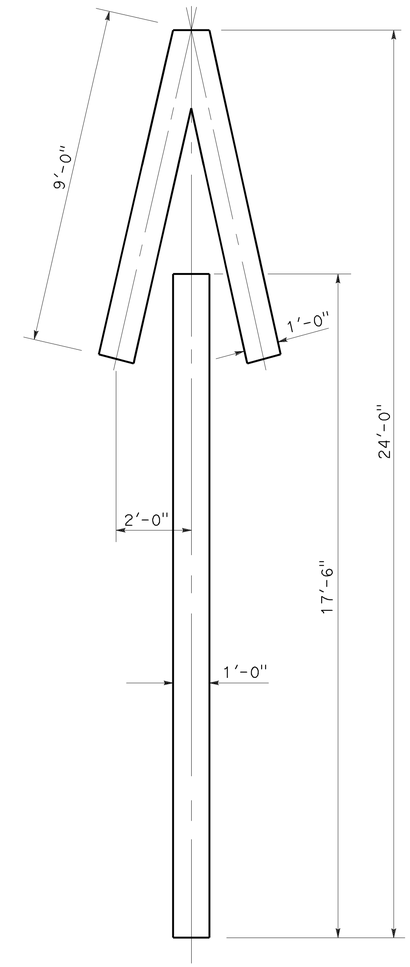
TYPE VIII ARROW



A=27 ft^2

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft^2

TYPE V ARROW

NOTE:
Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	43	53

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 2-17-15

2010 REVISED STANDARD PLAN RSP T9

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
W = Width of offset in feet
S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommmended distances.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

TO ACCOMPANY PLANS DATED 2-17-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	44	53

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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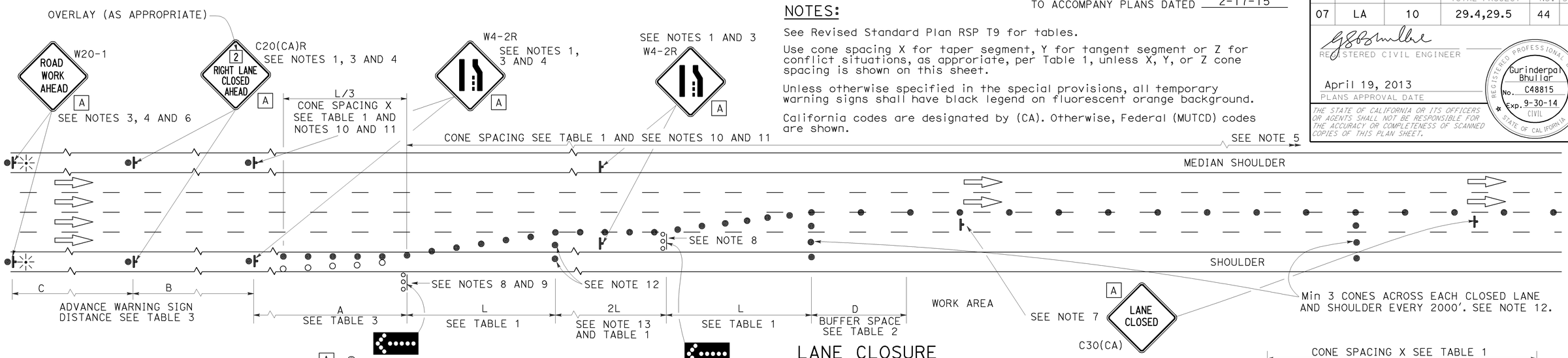
NOTES:

See Revised Standard Plan RSP T9 for tables.

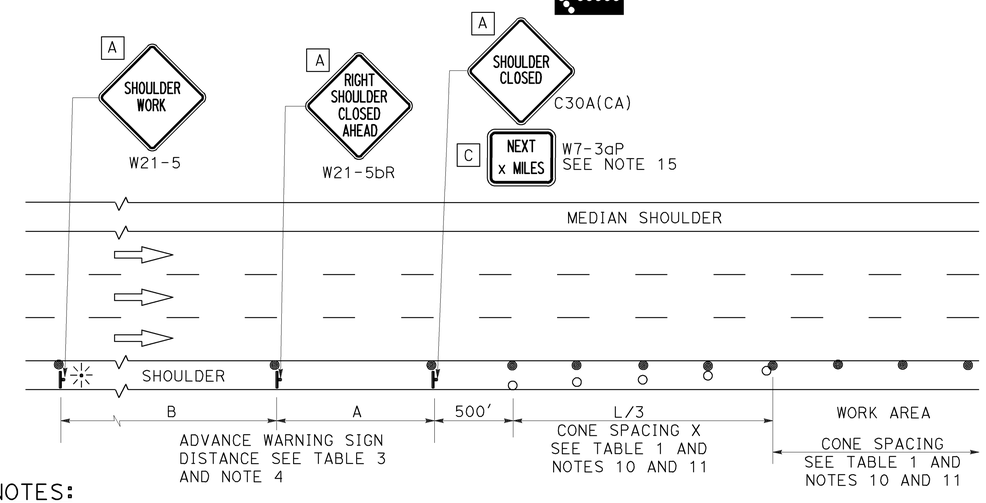
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

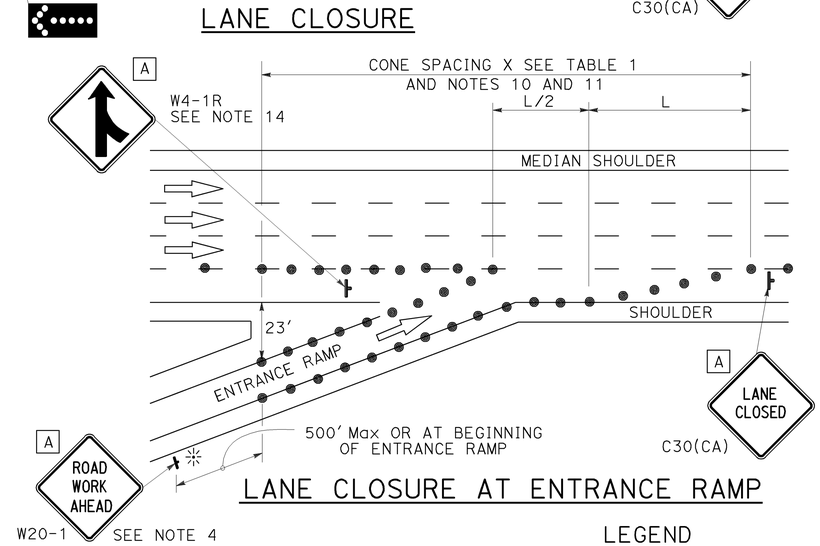
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



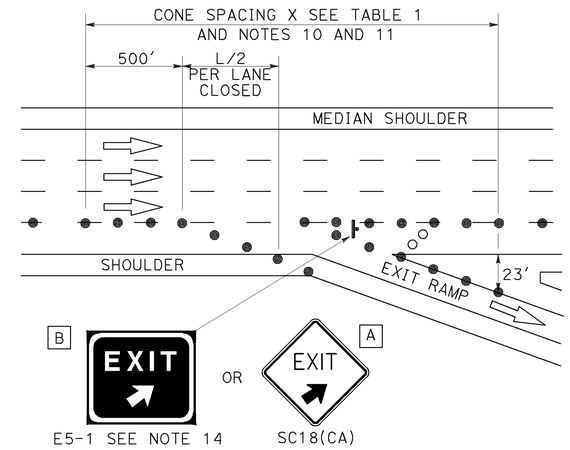
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

NOTES:

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT____ MILES" plaque must be used if theshoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	45	53

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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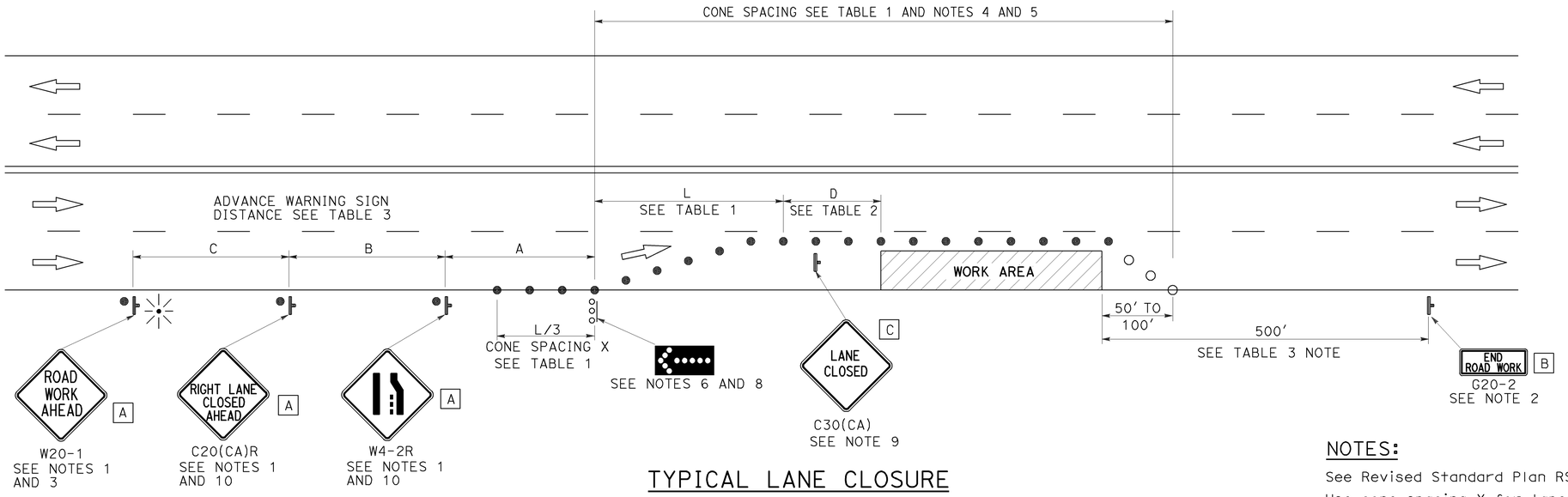
TO ACCOMPANY PLANS DATED 2-17-15



TYPICAL LANE CLOSURE

NOTES:

See Revised Standard Plan RSP T9 for tables.

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

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

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

NOTES:

1. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Flashing arrow sign shall be either Type I or Type II.
7. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
8. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
9. Place a C30(CA) sign every 2000' throughout length of lane closure.
10. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
11. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

LEGEND

- ● TRAFFIC CONE
- ○ TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A	48" x 48"
B	36" x 18"
C	30" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

4-2-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	46	53

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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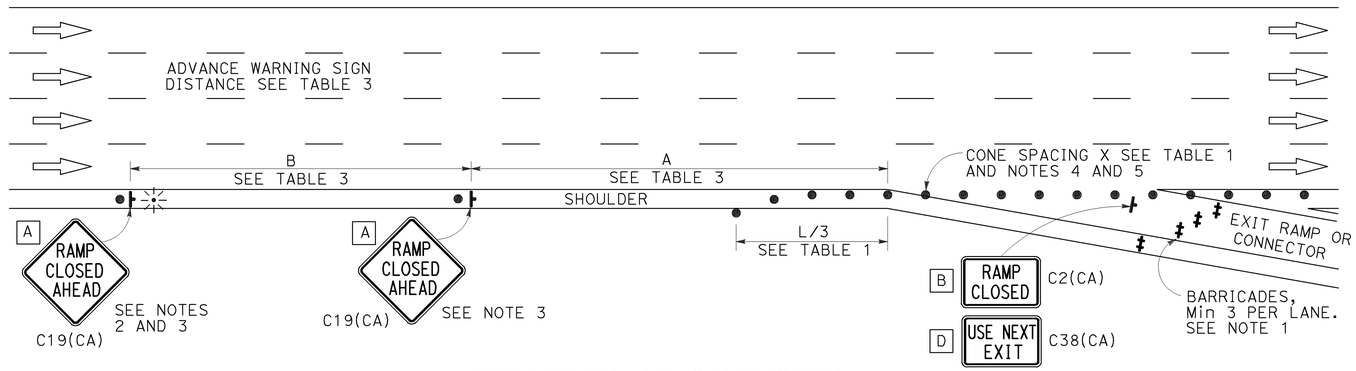
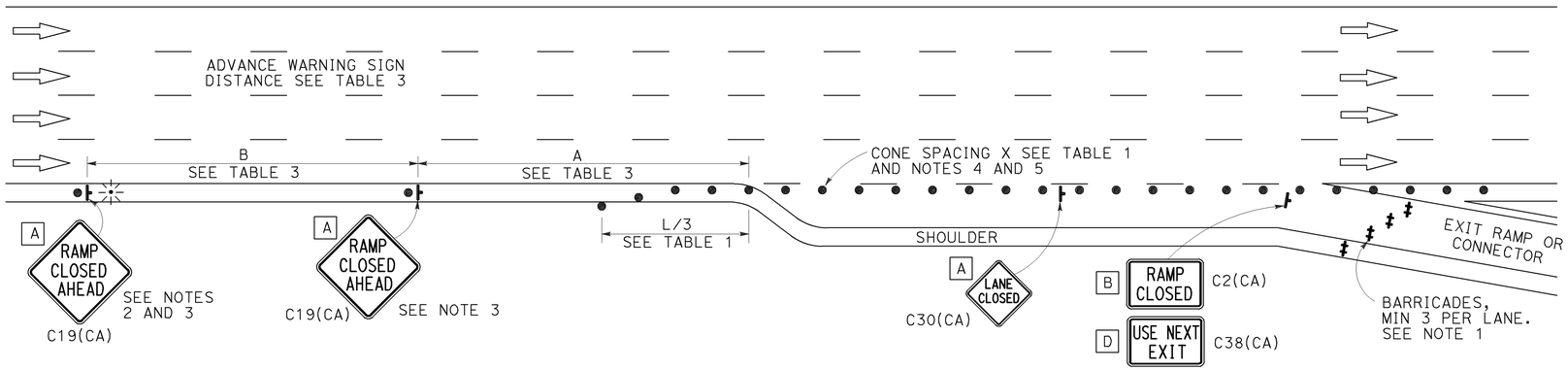
TO ACCOMPANY PLANS DATED 2-17-15

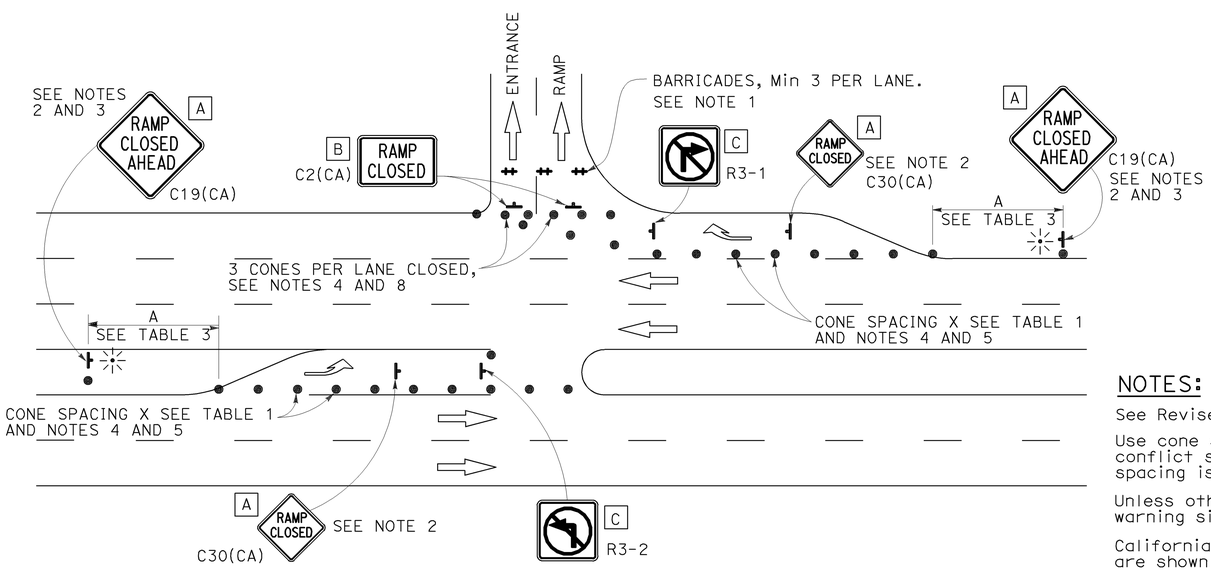
TYPICAL RAMP CLOSURES



EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS

SIGN PANEL SIZE (Min)

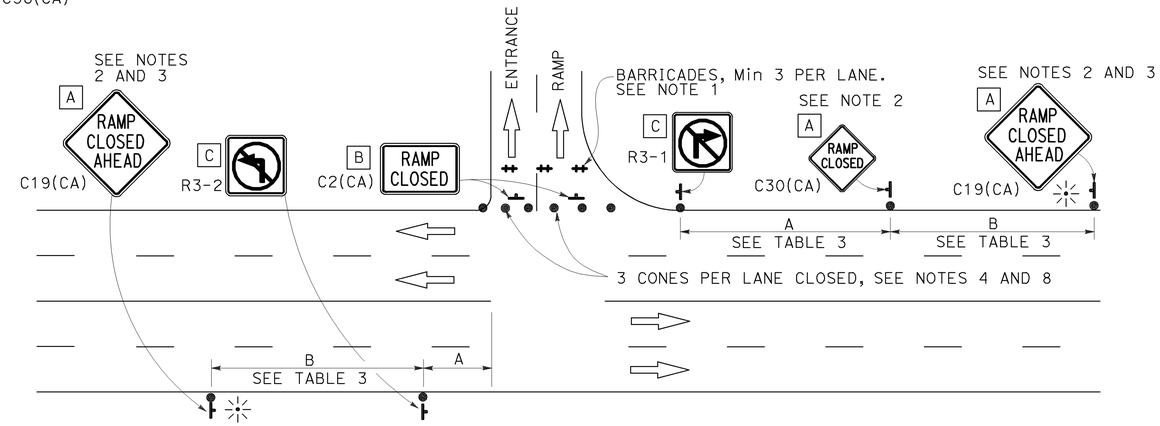
- A 48" × 48"
- B 48" × 30"
- C 36" × 36"
- D 48" × 36"

LEGEND

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

NOTES:

1. Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
2. In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
3. Each advance C19(CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" × 16" in size and shall be orange or fluorescent red-orange in color. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

See Revised Standard Plan RSP T9 for tables.

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

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

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

12-18-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	47	53

Edward Li 01/23/15
REGISTERED CIVIL ENGINEER DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER EDWARD GUOJUN LI No. C56706 Exp. 06/30/15 CIVIL STATE OF CALIFORNIA

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INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	BACKWALL REPAIR DETAILS
4	SLAB REPAIR DETAILS
5	STAGE CONSTRUCTION DETAILS
6	MISCELLANEOUS DETAILS
7	STRUCTURE APPROACH TYPE R(30S)

STANDARD PLANS DATED 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
B0-5	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

STANDARD PLAN SHEET NO.

DETAIL NO.

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN:
CALTRANS BRIDGE DESIGN SPECIFICATIONS APRIL 2000 (LFD)
(1996 AASHTO with INTERIMS and REVISIONS by Caltrans)

DEAD LOAD:
Includes 35 psf for future wearing surface.

LIVE LOADING:
HS20-44 and Alternative and Permit Design Load

REINFORCED CONCRETE:
fy = 60,000 psi
f'c = 3,600 psi

Transverse Deck Slabs (Working Stress):
fs = 20,000 psi
fc = 12,000 psi
n = 10

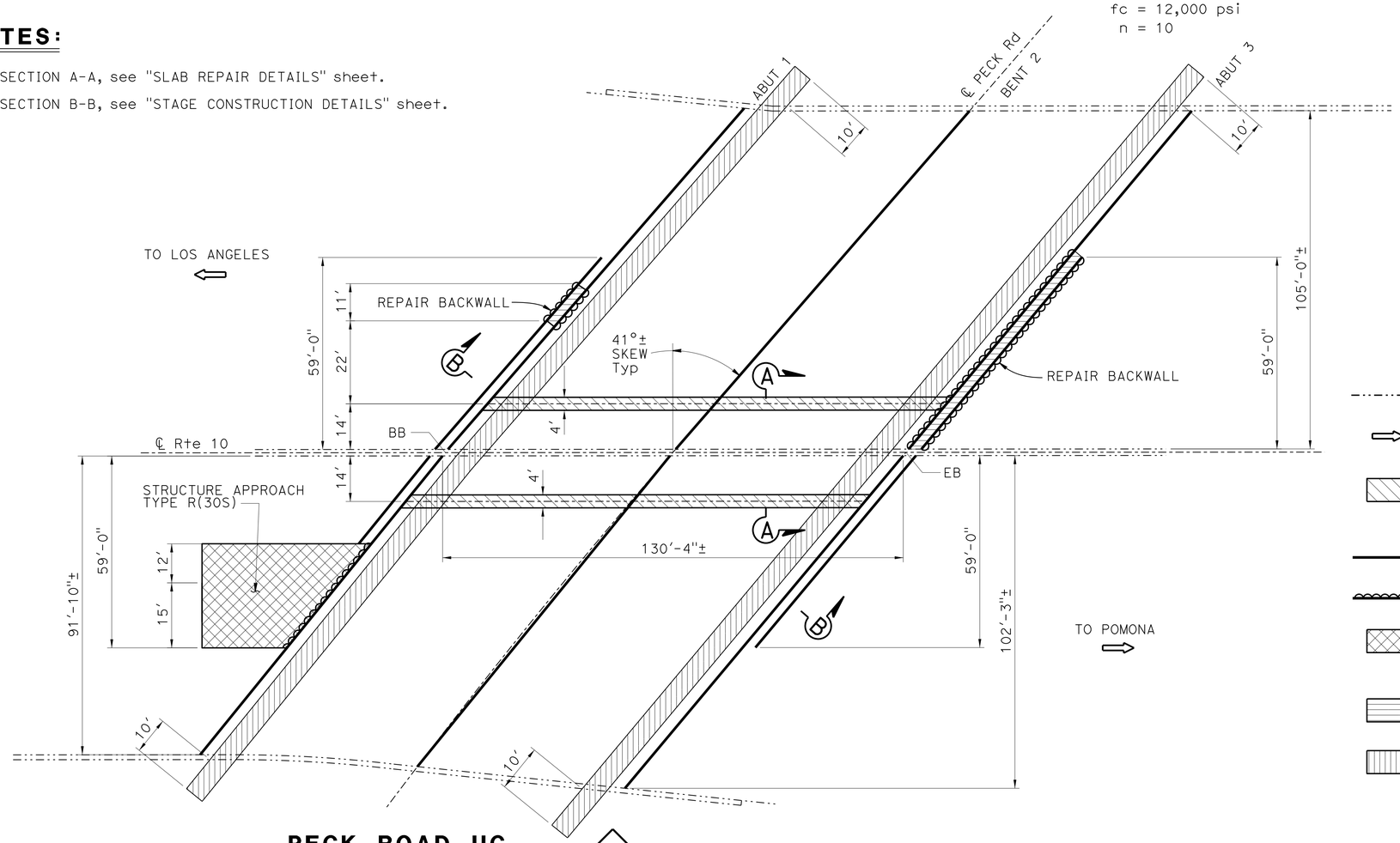
NOTES:

1. For SECTION A-A, see "SLAB REPAIR DETAILS" sheet.
2. For SECTION B-B, see "STAGE CONSTRUCTION DETAILS" sheet.

PECK ROAD UNDERCROSSING BR NO 53-0661

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	3	CY
STRUCTURAL CONCRETE (BRIDGE, FIBER REINFORCED)	26	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	50	CY
DRILL AND BOND DOWEL	62	LF
CLEAN EXPANSION JOINT	852	LF
JOINT SEAL (MR 1")	277	LF
BONDED JOINT SEAL (MR 1½")	799	LF
BAR REINFORCING STEEL (BRIDGE)	3,982	LB



PECK ROAD UC

Br No. 53-0661, Rte 10, PM 29.43
NO SCALE

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES NOT INCLUDED ON THESE PLANS.

LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates location of deck reconstruction. For details, see "SLAB REPAIR DETAILS" sheet. For construction staging, see "STAGE CONSTRUCTION DETAILS" sheet.

Indicates location of clean expansion joint and placement of new joint seal.

Indicates limit of placement of new joint seal.

Indicates limits of remove existing approach and place new Structure Approach Type R(30S). For details, see "STRUCTURE APPROACH TYPE R(30S)" sheet.

Indicates limits of repair backwall. See "BACKWALL REPAIR DETAILS" sheet.

Indicates limits of temporary Covered Pedestrian Walkway underneath structure along Peck Road.

Tony Brake DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang	CHECKED Edward Li
	QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Vaikunthan Renganathan	PLANS AND SPECS COMPARED Vaikunthan Renganathan

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. 53-0661
POST MILE 29.43

PECK ROAD UC
ROUTE 10 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0714000321-1
CONTRACT NO.: 07-2W9204

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 4-04-14 9-25-14 12-17-14

SHEET 01 OF 07

FILE => 07-2w9201-a-gp01.dgn

USERNAME => s122436 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 19:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	48	53

REGISTERED CIVIL ENGINEER — DATE 01/23/15

2-17-15
PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER — EDWARD GUOJUN LI — No. C56706 — Exp. 06/30/15 — CIVIL — STATE OF CALIFORNIA

VALLEY BOULEVARD UNDERCROSSING BR NO 53-0660

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP	SUM
STRUCTURAL CONCRETE (BRIDGE, FIBER REINFORCED)	31	CY
CLEAN EXPANSION JOINT	1,260	LF
JOINT SEAL (MR 1")	342	LF
JOINT SEAL (TYPE AL)	40	LF
BONDED JOINT SEAL (MR 1½")	878	LF
BAR REINFORCING STEEL (BRIDGE)	4,350	LB

LEGEND:

Indicates existing.

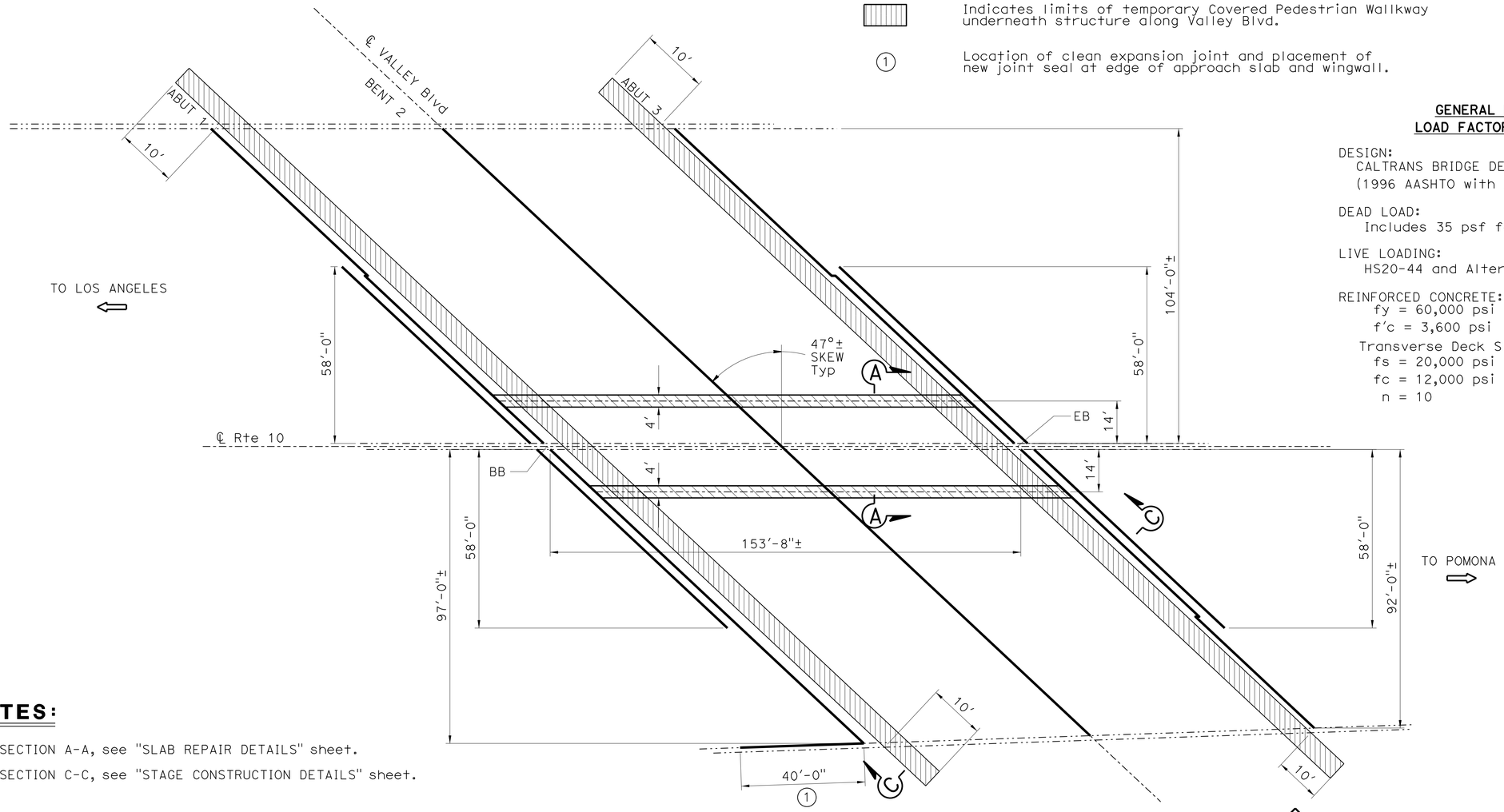
Indicates direction of traffic.

Indicates location of deck reconstruction. For details, see "SLAB REPAIR DETAILS" sheet. For construction staging, see "STAGE CONSTRUCTION DETAILS" sheet.

Indicates location of clean expansion joint and placement of new joint seal.

Indicates limits of temporary Covered Pedestrian Walkway underneath structure along Valley Blvd.

(1) Location of clean expansion joint and placement of new joint seal at edge of approach slab and wingwall.



GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN:
CALTRANS BRIDGE DESIGN SPECIFICATIONS APRIL 2000 (LFD)
(1996 AASHTO with INTERIMS and REVISIONS by Caltrans)

DEAD LOAD:
Includes 35 psf for future wearing surface.

LIVE LOADING:
HS20-44 and Alternative and Permit Design Load

REINFORCED CONCRETE:
fy = 60,000 psi
f'c = 3,600 psi

Transverse Deck Slabs (Working Stress):
fs = 20,000 psi
fc = 12,000 psi
n = 10

NOTES:

1. For SECTION A-A, see "SLAB REPAIR DETAILS" sheet.
2. For SECTION C-C, see "STAGE CONSTRUCTION DETAILS" sheet.

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

VALLEY BLVD UC

Br No. 53-0660, Rte 10, PM 29.55
NO SCALE

Tony Brake
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Edward Li	Tony Brake
DETAILS	Tom Dang	Edward Li
QUANTITIES	Edward Li	Gerald Joo

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Tom Dang	Edward Li
SPECIFICATIONS	Vaikunthan Renganathan	PLANS AND SPECS COMPARED Vaikunthan Renganathan

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. 53-0660
POST MILE 29.55

VALLEY BLVD UC
ROUTE 10 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0714000321-1
CONTRACT NO.: 07-2W9204

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 4-28-14 9-25-14 12-17-14

SHEET 02 OF 07

FILE => 07-2w9201-a-gp02.dgn

USERNAME => s122436 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 13:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	49	53

Edward Li 01/23/15
REGISTERED CIVIL ENGINEER DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER EDWARD GUOJUN LI No. C56706 Exp. 06/30/15 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.

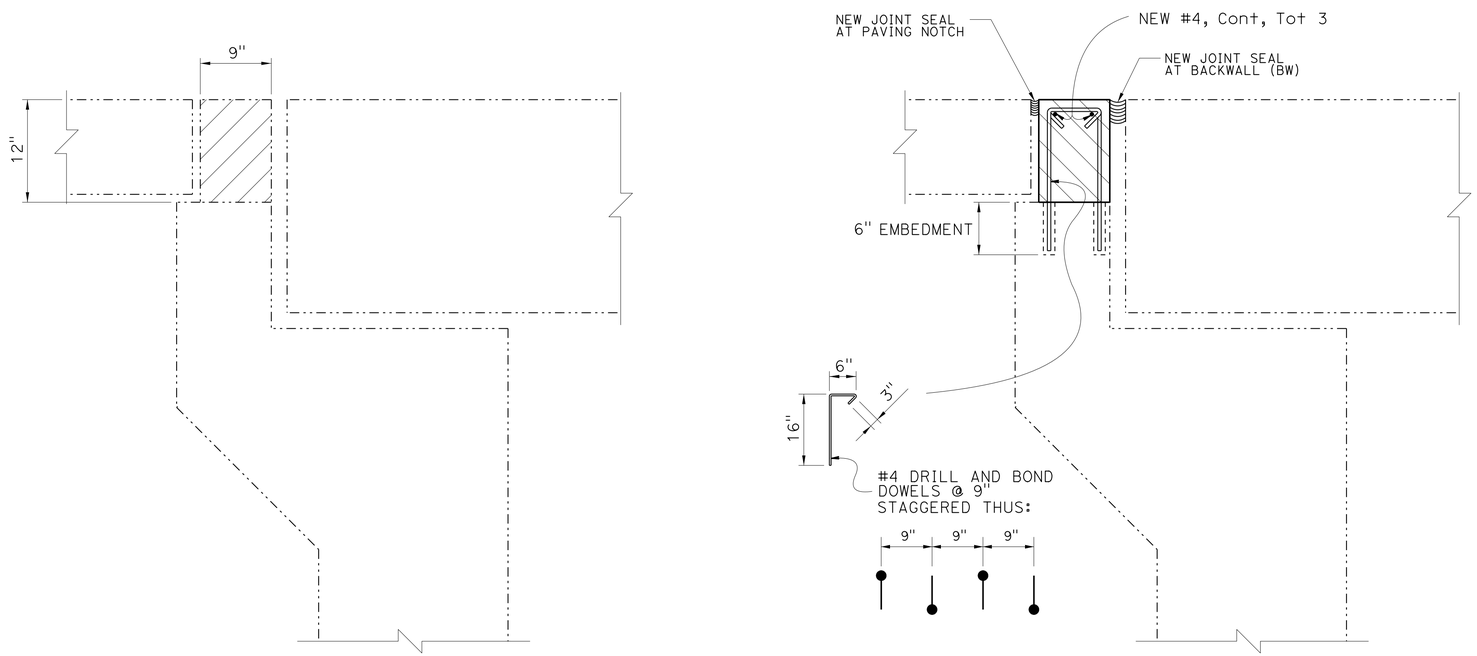
LEGEND:

Indicates existing structure.

Indicates new structure.

Indicates limit of Bridge Removal (Portion), Location A
Preserve existing reinforcement.

Indicates Structural Concrete, Bridge.



BACKWALL RECONSTRUCTION - ABUT 3

Br No. 53-0661, Rte 10, PM 29.43
NO SCALE
(FOR CLARITY, EXISTING REBARS NOT SHOWN)

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

	BY	CHECKED
DESIGN	Edward Li	Tony Brake
DETAILS	Tom Dang	Edward Li
QUANTITIES	Edward Li	Gerald Joo

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. 53-0661
POST MILE 29.43

PECK ROAD UC
ROUTE 10 BRIDGES
BACKWALL REPAIR DETAILS

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0714000321-1 CONTRACT NO.: 07-2W9204

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 4-04-14 9-25-14 12-17-14

SHEET 03 OF 07

FILE => 07-2w9201-b-bwrepairdtl.dgn

USERNAME => s122436 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 23:14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	50	53

REGISTERED CIVIL ENGINEER 01/23/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER EDWARD GUOJUN LI No. C56706 Exp. 06/30/15 CIVIL STATE OF CALIFORNIA

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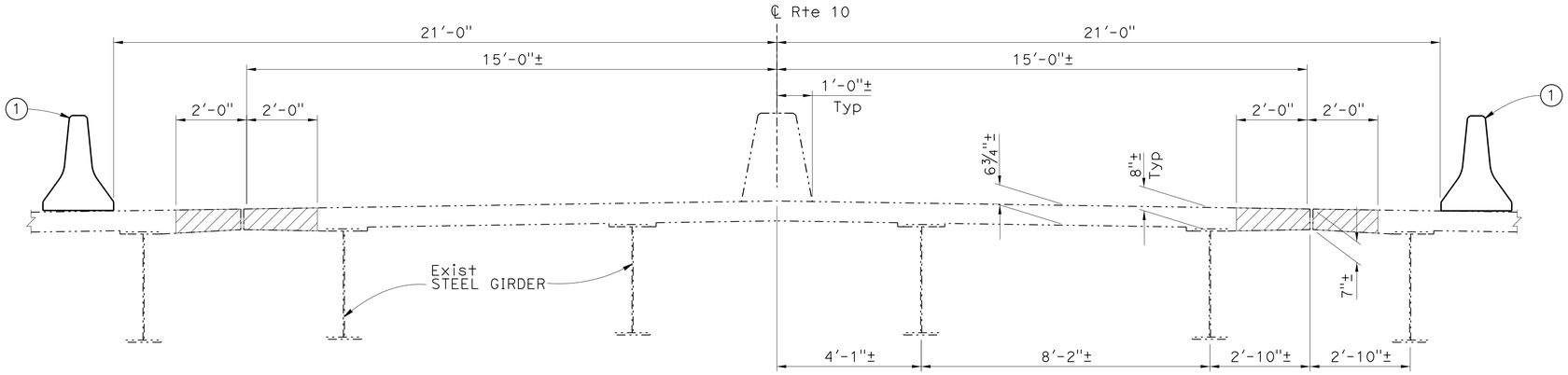

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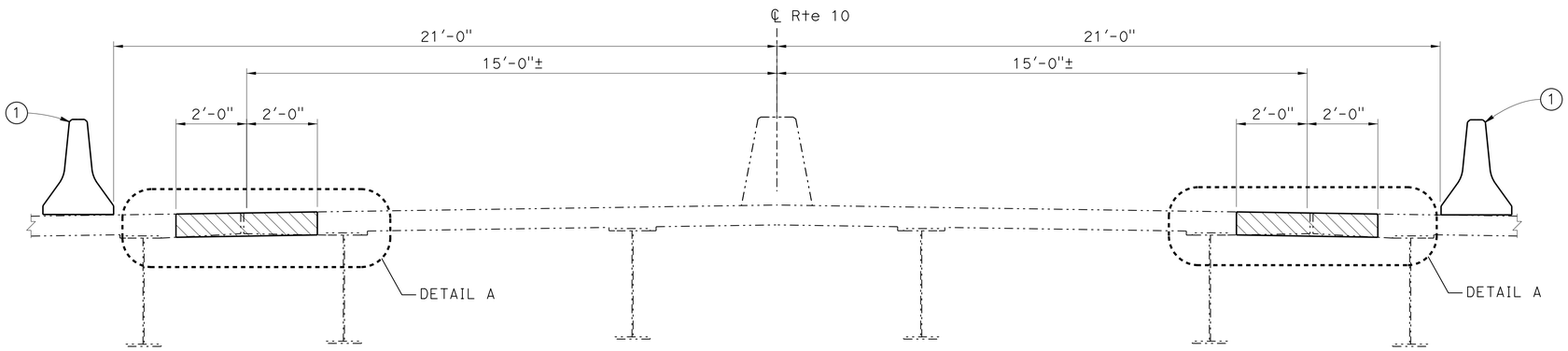


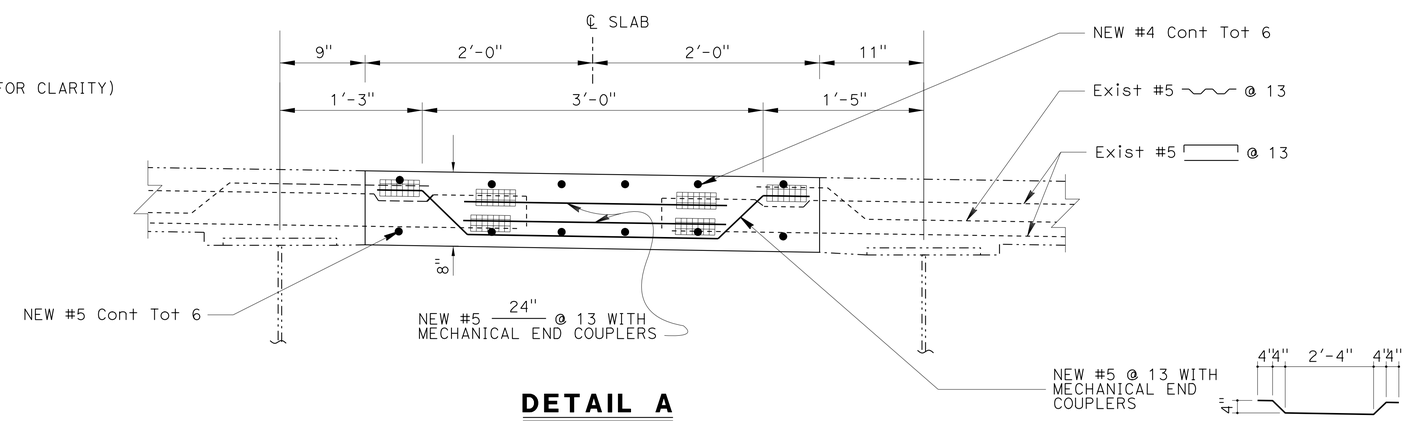
RECONSTRUCTION

SECTION A-A

1/2" = 1'-0"
(EXISTING LONGITUDIAL REINFORCEMENT NOT SHOWN FOR CLARITY)

LEGEND:

- Indicates existing structure.
- Indicates new structure.
- Indicates Bridge Removal (Portion), Location A at Peck Rd UC and Bridge Removal (Portion), Location B at Valley Blvd UC.
- Indicates structural concrete, bridge fiber reinforced.
- Indicates existing reinforcement.
- Indicates mechanical end couplers.
- (1) Temporary Rail (Type K), see "ROAD PLANS".



DETAIL A

NO SCALE
(EXISTING LONGITUDIAL REINFORCEMENT NOT SHOWN FOR CLARITY)

NOTES:

1. For location of SECTION A-A, see "GENERAL PLAN NO. 1" and "GENERAL PLAN NO. 2" sheets.

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

	BY	CHECKED
DESIGN	Edward Li	Tony Brake
DETAILS	Tom Dang	Edward Li
QUANTITIES	Edward Li	Gerald Joo

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 10 BRIDGES
SLAB REPAIR DETAILS

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0714000321-1
CONTRACT NO.: 07-2W9204

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 4-04-14 9-25-14 12-17-14

SHEET 04 OF 07

FILE => 07-2w9201-c-slabrepairdtl.dgn

USERNAME => s122436 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 19:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	51	53

REGISTERED CIVIL ENGINEER 01/23/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER EDWARD GUOJUN LI No. C56706 Exp. 06/30/15 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.

LEGEND:

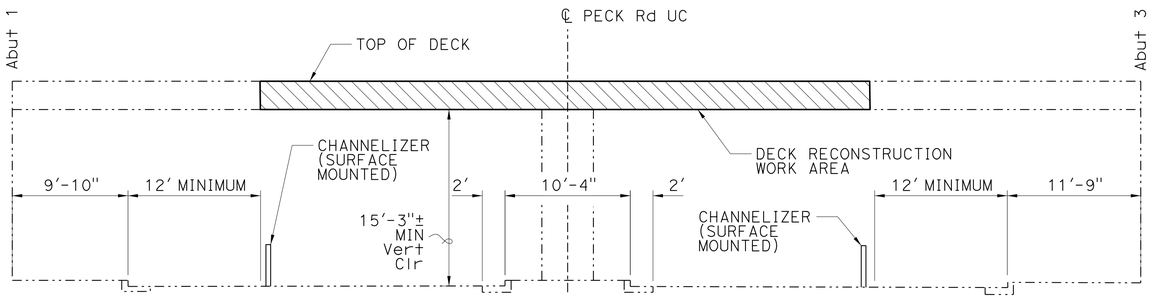
Indicates existing structure.

Indicates new structure.

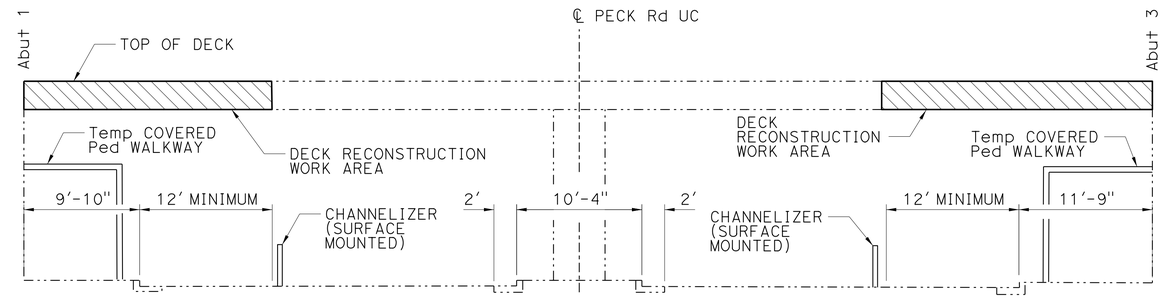
Indicates location of deck reconstruction. For details, see "SLAB REPAIR DETAILS" sheet.

NOTES:

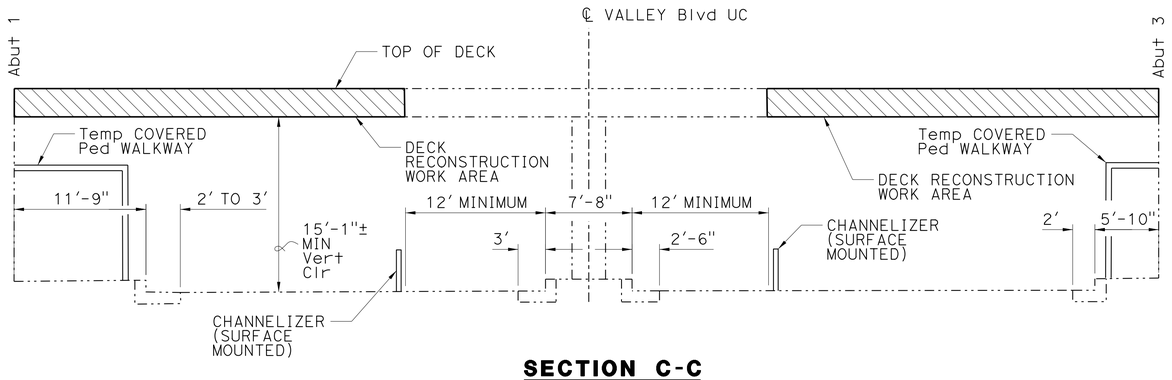
1. For location of SECTION B-B, see "GENERAL PLAN NO. 1" sheet.
2. For location of SECTION C-C, see "GENERAL PLAN NO. 2" sheet.
3. For transverse deck construction joint details, see STANDARD PLAN B0-5.
4. For limits of stage construction, see "ROADWAY PLANS".



SECTION B-B



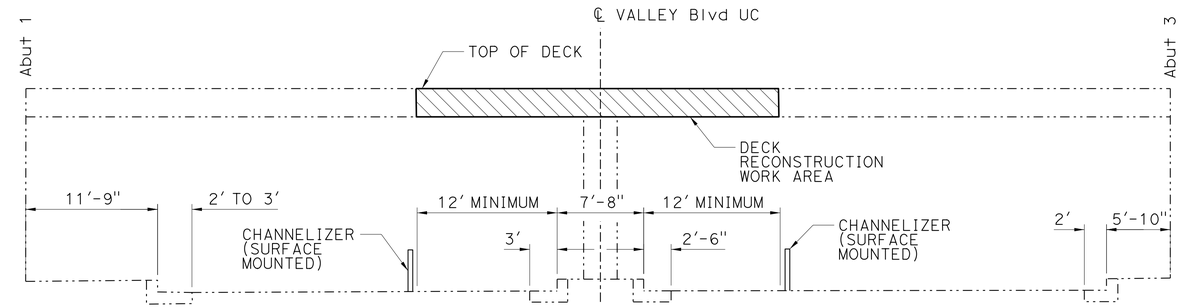
SECTION B-B



SECTION C-C

STAGE 1 CONSTRUCTION

NO SCALE



SECTION C-C

STAGE 2 CONSTRUCTION

NO SCALE

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

	BY	CHECKED
DESIGN	Edward Li	Tony Brake
DETAILS	Tom Dang	Edward Li
QUANTITIES	Edward Li	Gerald Joo

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 10 BRIDGES
STAGE CONSTRUCTION DETAILS

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0714000321-1
CONTRACT NO.: 07-2W9204

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 4-08-14 9-25-14 12-17-14

SHEET 05 OF 07

FILE => 07-2w9201-d-stgcondtl.dgn

USERNAME => s122436 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 19:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	52	53

REGISTERED CIVIL ENGINEER 01/23/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER EDWARD GUOJUN LI No. C56706 Exp. 06/30/15 CIVIL STATE OF CALIFORNIA

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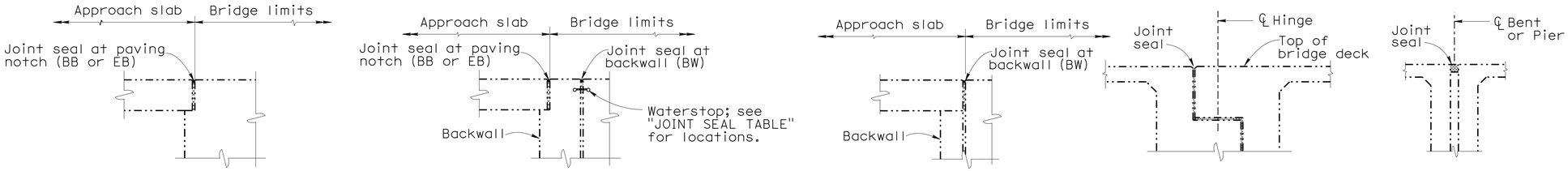


DIAPHRAGM ABUTMENT | ABUTMENT WITH BACKWALL AND PAVING NOTCH | ABUTMENT WITH BACKWALL | HINGE | BENT OR PIER

JOINT SEAL LOCATION

NO SCALE

Abutment joint seal is not required with AC roadway pavement transverse contact joint.

JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROX LENGTH (LF)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	LENGTH TO CLEAN EXP JOINT (LF)
PECK ROAD UC	53-0661	ABUT 1	PN	1	121	NO	12	105
			BW	1½*	262	NO	12	211
		BENT 2		1½*	261	NO	12	261
		ABUT 3	BW	1½*	276	NO	12	197
			PN	1	156	NO	12	78
VALLEY BLVD UC	53-0660	ABUT 1	PN	1	171	NO	12	171
			BW	1½*	295	NO	12	295
			WW	Type AL	40	NO	3	40
		BENT 2		1½*	295	NO	12	295
		ABUT 3	BW	1½*	288	NO	12	288
			PN	1	171	NO	12	171

PN = PAVING NOTCH
BW = BACKWALL
WW = WINGWALL
* USE BONDED JOINT SEAL

NOTES:

The following notes apply to JOINT SEAL TYPE A:

Install Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see Standard Plan B6-21 sheet.

The following notes apply to JOINT SEAL TYPE B:

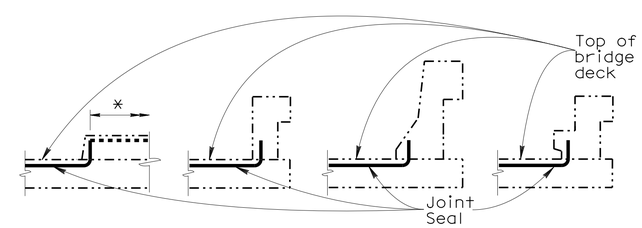
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.

3) W1 shall be the smaller of the values determined as follows:
   A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
   B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.

4) Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

For details not shown see Standard Plan B6-21 sheet.



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Note: Details shown for illustration purposes only.

For use only where deck joint matches the sidewalk, curb or barrier rail joint.

* Extension of joint seal will be determined by the Engineer if necessary.

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

	BY	CHECKED
DESIGN	Edward Li	Tony Brake
DETAILS	Tom Dang	Edward Li
QUANTITIES	Edward Li	Gerald Joo

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 10 BRIDGES
MISCELLANEOUS DETAILS

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0714000321-1
CONTRACT NO.: 07-2W9204

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 4-04-14 9-25-14 12-17-14

SHEET 06 OF 07

FILE => 07-2w9201-e-miscdtl .dgn

USERNAME => s122436 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 19:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.4,29.5	53	53

REGISTERED CIVIL ENGINEER 01/23/15 DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER EDWARD GUOJUN LI No. C56706 Exp. 06/30/15 CIVIL STATE OF CALIFORNIA

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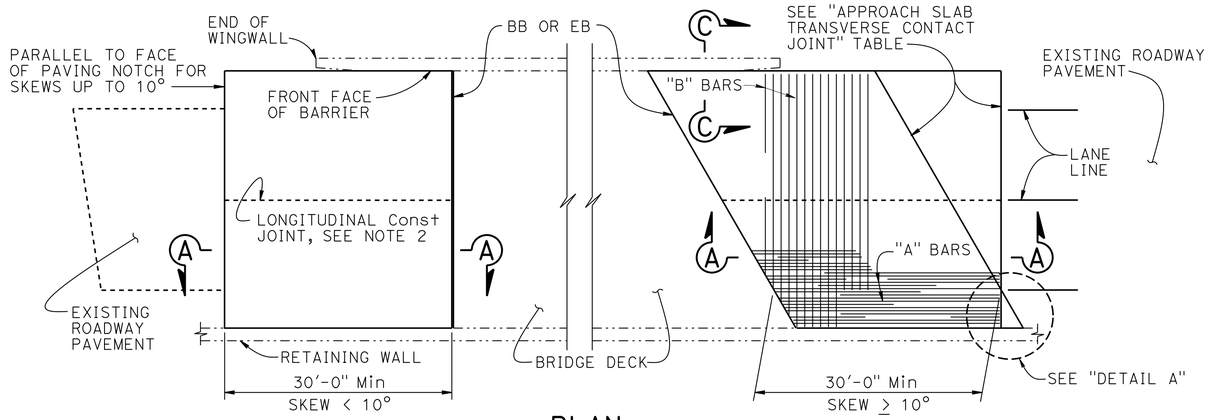
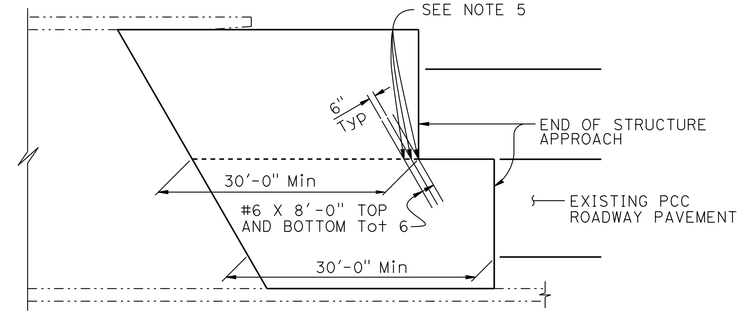
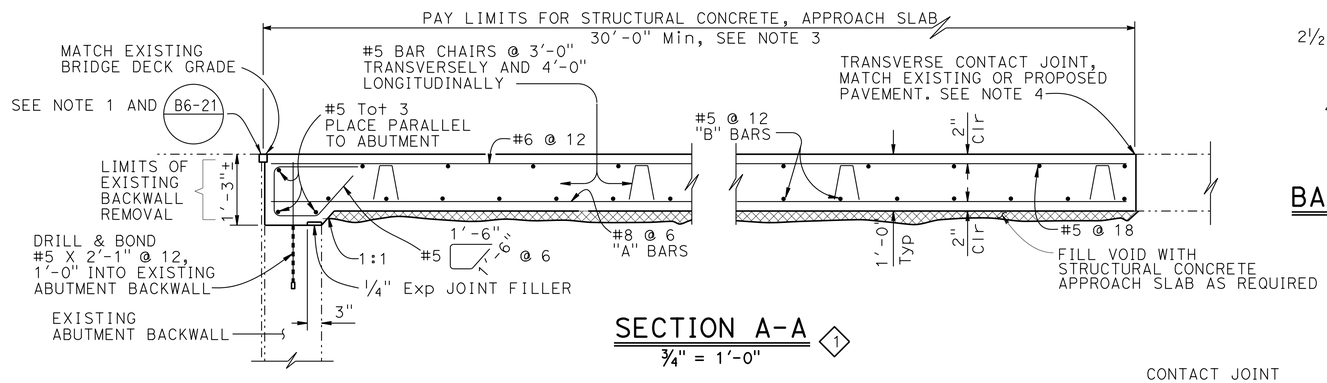


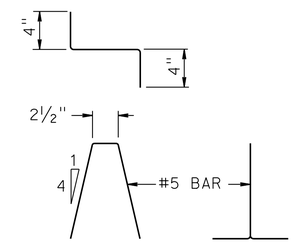
PLAN
1" = 10'



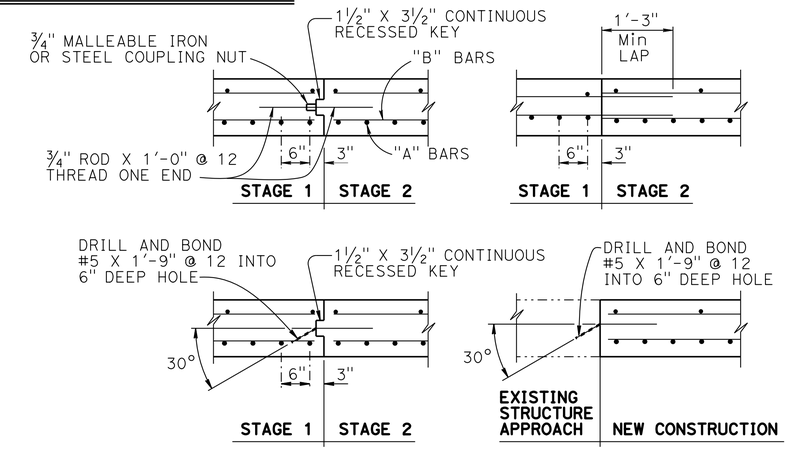
STRUCTURE APPROACH - END STAGGER DETAIL
NO SCALE



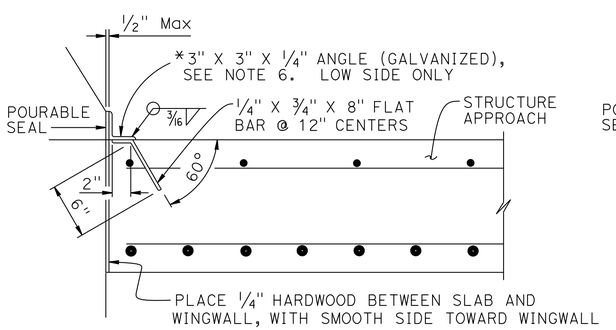
SECTION A-A
3/4" = 1'-0"



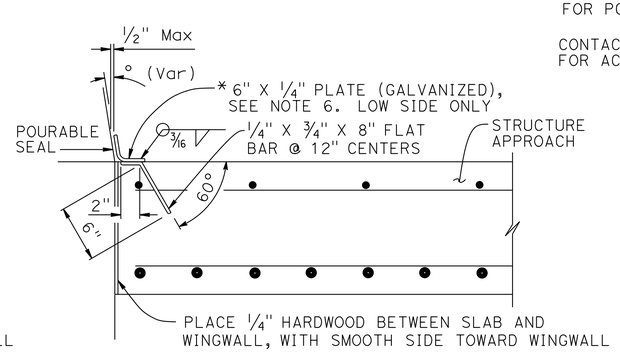
BAR CHAIR DETAIL
1 1/2" = 1'-0"



LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES
3/4" = 1'-0"

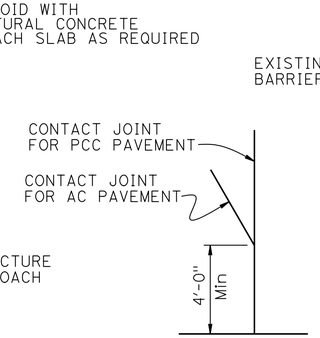


*(TO BE USED WITH CONCRETE BARRIER WITH VERTICAL FACE)

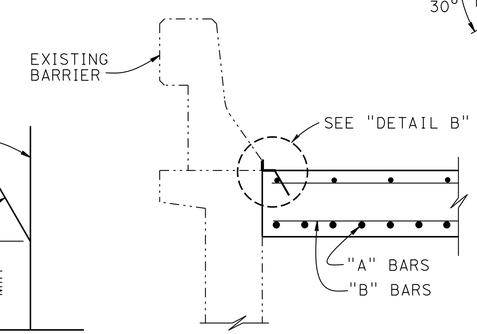


*(TO BE USED WITH CONCRETE BARRIER WITH SLOPING FACE)

DETAIL B
1 1/2" = 1'-0"



DETAIL A
No Scale



SECTION C-C
3/4" = 1'-0"

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PN
10° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE

1 NOTES:

1. Sealed joint,for MR see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
2. Longitudinal construction joints, when permitted by Engineer, shall be located on lane lines
3. Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint
4. Couplers are required for stage construction
5. End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

REVISED STANDARD DRAWING

FILE NO. xs3-130

APPROVAL DATE July 2011

1 REVISED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53-0661
POST MILE 29.43

SPECIAL DETAILS
ROUTE 10 BRIDGES
STRUCTURE APPROACH TYPE R(30S)

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0714000321-1
CONTRACT NO.: 07-2W9204

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 4-06-14 9-25-14 12-17-14

SHEET 07 OF 07

FILE => 07-2w9201-f-stappr30s.dgn

USERNAME => s122436 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 19:45