Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Gle	5	Var	1	21

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	CONSTRUCTION DETAILS
3-8	CONSTRUCTION SIGNS
9	PAVEMENT DELINEATION QUANTITIES
10	SUMMARY OF QUANTITIES
11-18	TRAFFIC CONTROL SYSTEM

STRUCTURE PLANS

19	GENERAL PLANS
20	JOINT SEAL DETAILS
21	QUANTITIES

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

STATE OF CALIFORNIA

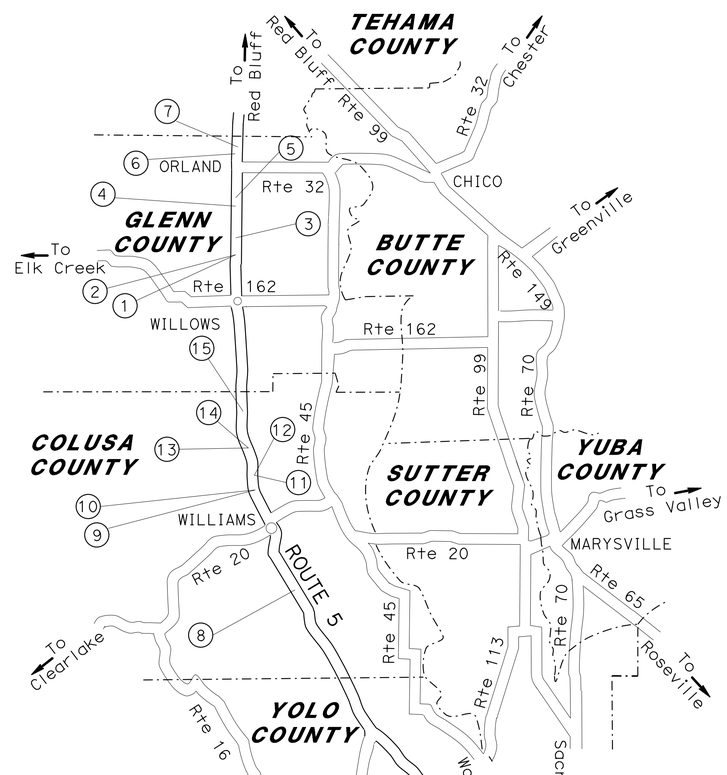
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN COLUSA AND GLENN COUNTIES AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATION MAP

LOCATIONS OF CONSTRUCTION

Loc No. (#)	COUNTY	ROUTE	PM	BRIDGE No.	STRUCTURE NAME
1	Gle	5	R11.98	11-0063R	BOYD OVERFLOW
2	Gle	5	R11.98	11-0063L	BOYD OVERFLOW
3	Gle	5	R12.39	11-0058R	SOUTH FORK WILLOW CREEK
4	Gle	5	R22.81	11-0069	COUNTY ROAD 24 OC
5	Gle	5	R23.81	11-0070	COUNTY ROAD 20 OC
6	Gle	5	R27.81	11-0075	COUNTY ROAD 7 OC
7	Gle	5	R28.56	11-0073	COUNTY ROAD 3 OC
8	Col	5	R7.99	15-0005R	SALT CREEK
9	Col	5	R19.25	15-0073R	SALT CREEK
10	Col	5	R19.25	15-0073L	SALT CREEK
11	Col	5	R19.66	15-0071R	FRESHWATER CREEK
12	Col	5	R19.66	15-0071L	FRESHWATER CREEK
13	Col	5	R22.31	15-0072R	LURLINE CREEK
14	Col	5	R22.32	15-0072L	LURLINE CREEK
15	Col	5	R31.81	15-0058	DELEVAN ROAD OC

PROJECT MANAGER RONALD S. SYKES

DESIGN ENGINEER RONALD S. SYKES

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

NO SCALE

D. S. Lamb 11-26-12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

November 26, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DAVID S. LAMB No. C53386 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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

CONTRACT No.	03-4M4804
PROJECT ID	0312000010

LAST REVISION 00-00-00 DATE PLOTTED => 10-DEC-2012 TIME PLOTTED => 11:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	2	21

D. S. Lamb 11-26-12
REGISTERED CIVIL ENGINEER DATE

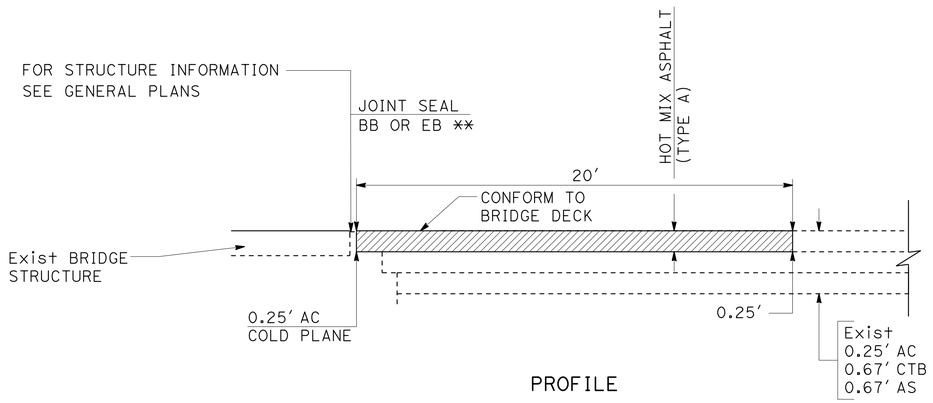
11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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

LEGEND:

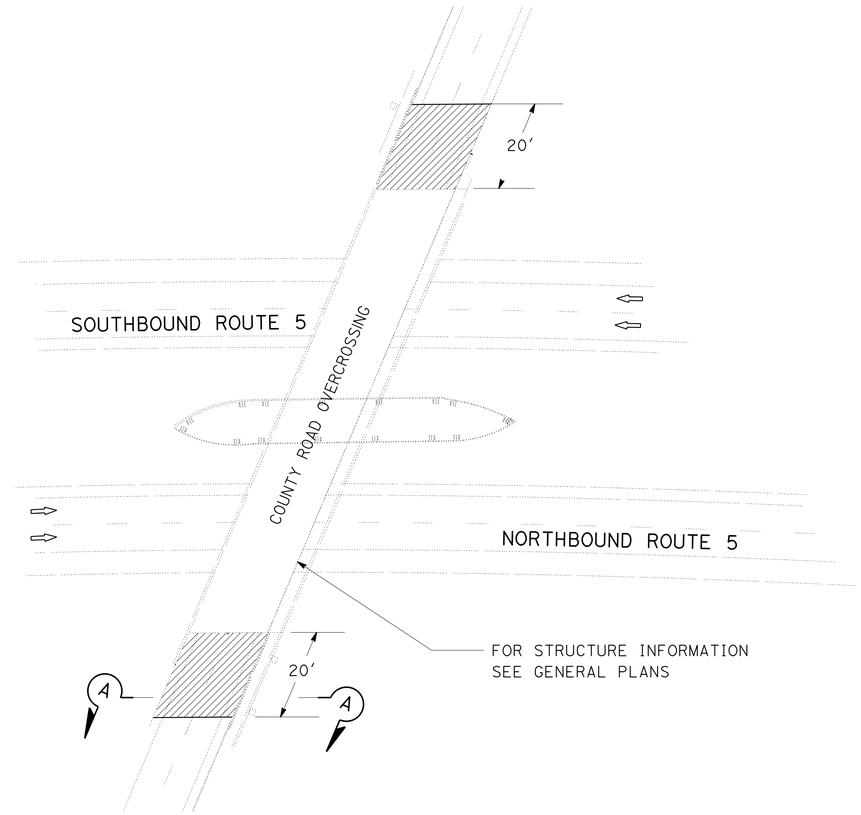
COLD PLANE AC PAVEMENT



PROFILE

LOCATIONS 4, 5, 6, AND 7

**BEGIN AND END OF BRIDGE OR END OF APPROACH AND DEPARTURE SLABS

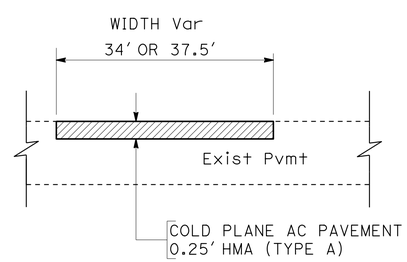


PLAN VIEW

ROUTE 5

OVERCROSSINGS

LOCATIONS 4, 5, 6, AND 7



SECTION A-A

LOCATIONS 4, 5, 6, AND 7

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: ROBERT M. FLOYD II
CHECKED BY: DAVID S. LAMB
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 11:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	3	21

REGISTERED CIVIL ENGINEER 11-26-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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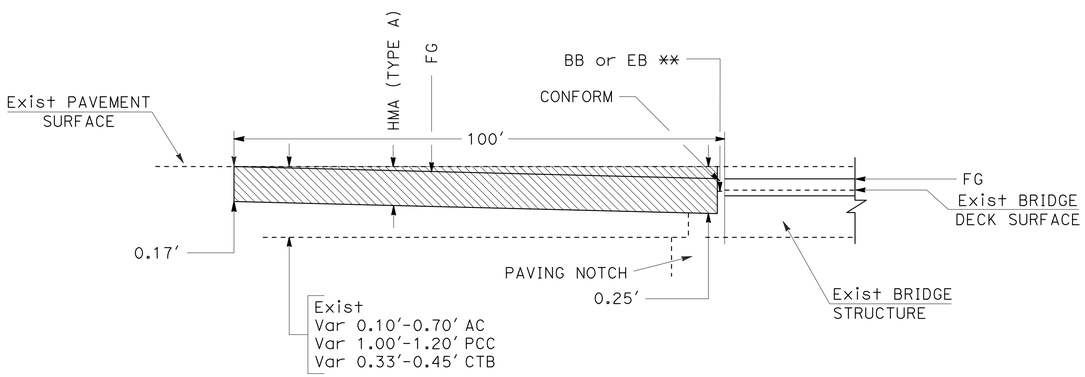
LEGEND:

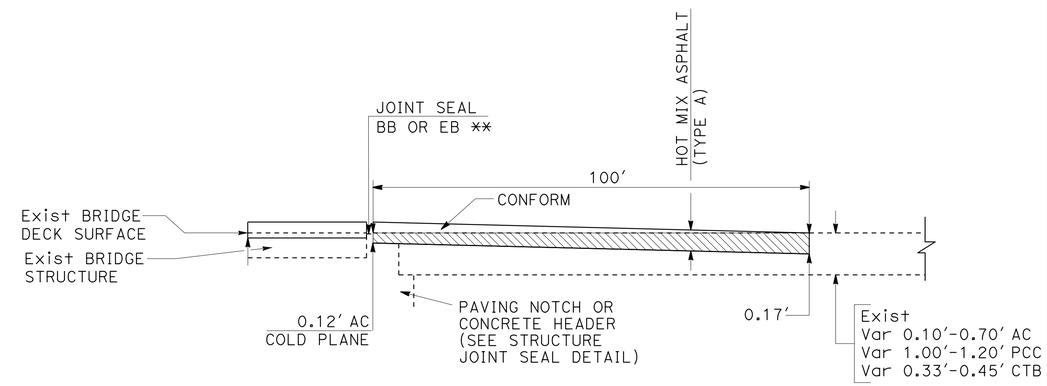
COLD PLANE AC PAVEMENT



PROFILE

LOCATIONS 1, 8, AND 13

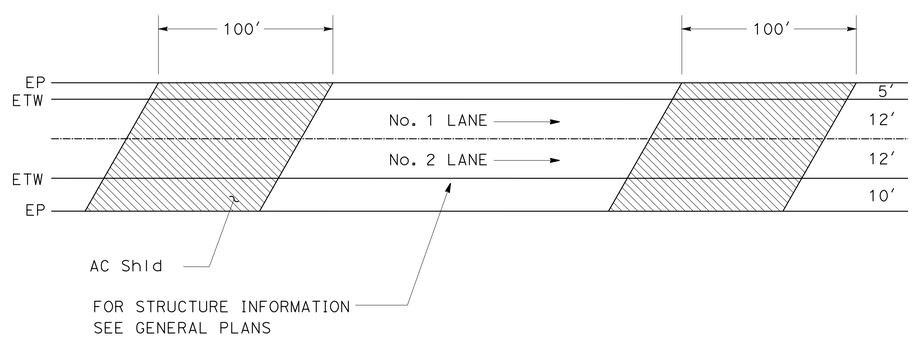
**BEGIN AND END OF BRIDGE OR END OF APPROACH AND DEPARTURE SLABS



PROFILE

LOCATIONS 2, 9, 10, 11 12, AND 14

**BEGIN AND END OF BRIDGE OR END OF APPROACH AND DEPARTURE SLABS



PLAN VIEW

COLD PLANE AC PAVEMENT CONFORM

NOTE: COLD PLANE OF APPROACH AND DEPARTURE IS EP TO EP, EXCEPT AT LOCATIONS 13 AND 14 WHERE COLD PLANE GOES FROM ETW TO ETW.

CONSTRUCTION DETAILS

NO SCALE

C-2

REVISED BY | DATE REVISED
ROBERT M. FLOYD II | DAVID S. LAMB
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
RONALD S. SYKES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 11:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	4	21

REGISTERED CIVIL ENGINEER 11-26-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DAVID S. LAMB No. C53386 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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LEGEND:

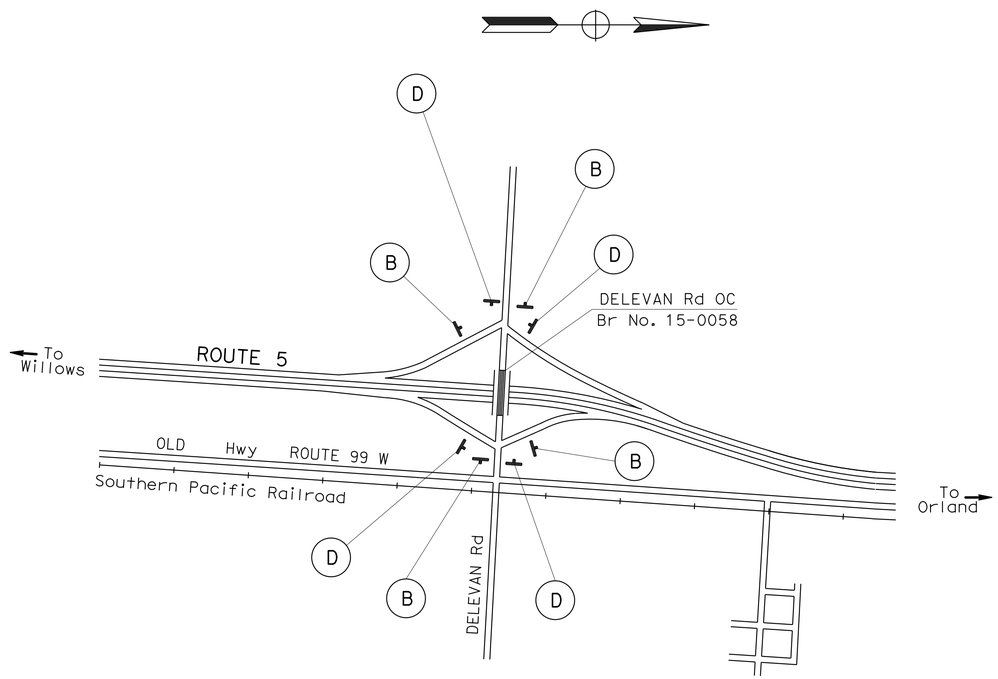
SIGN 1 POST

SIGN 2 POST

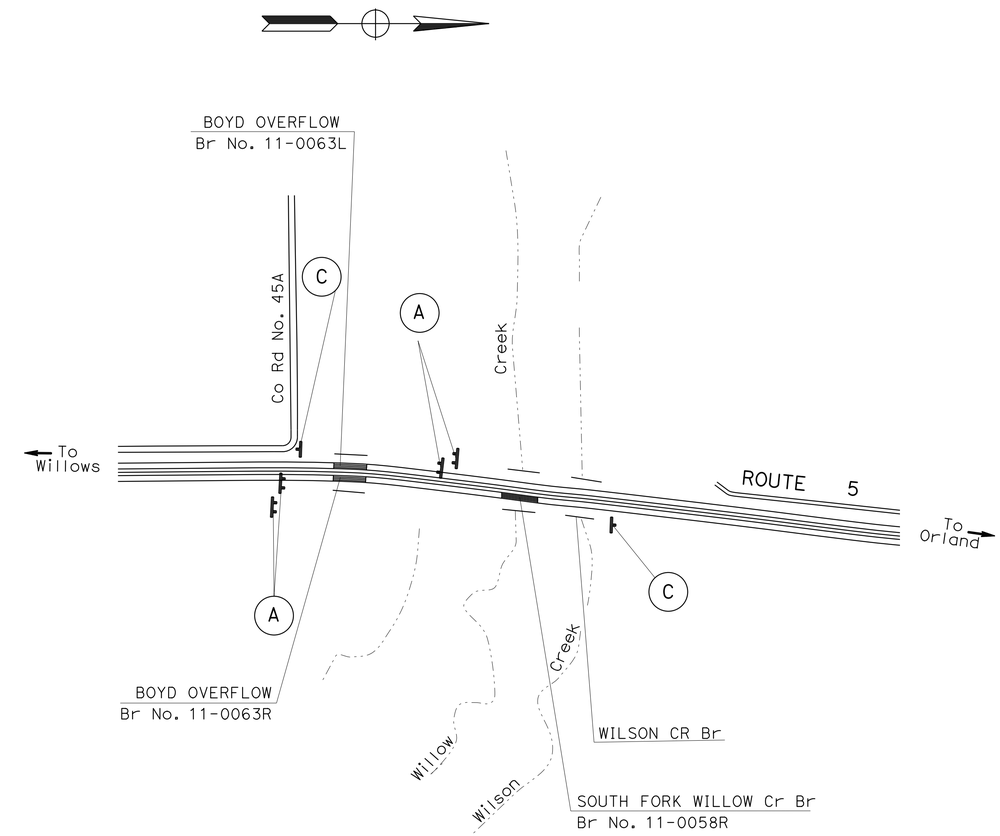
STATIONARY MOUNTED CONSTRUCTION AREA SIGN

SIGN LETTER	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
A	W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	14
B	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	14
C		C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	7
D	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	16

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER



DELEVAN



LOCATION 15

DELEVAN ROAD OC
COLUSA 5 PM R31.81
Br No. 15-0058

LOCATION 1

BOYD OVERFLOW
GLENN 5 PM R11.98
Br No. 11-0063R

LOCATION 2

BOYD OVERFLOW
GLENN 5 PM R11.98
Br No. 11-0063L

LOCATION 3

SOUTH FORK WILLOW
CREEK BRIDGE
GLENN 5 PM R12.39
Br No. 11-0058R

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: ROBERT M. FLOYD II
CHECKED BY: DAVID S. LAMB
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 11:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	5	21

D. S. Lamb 11-26-12
REGISTERED CIVIL ENGINEER DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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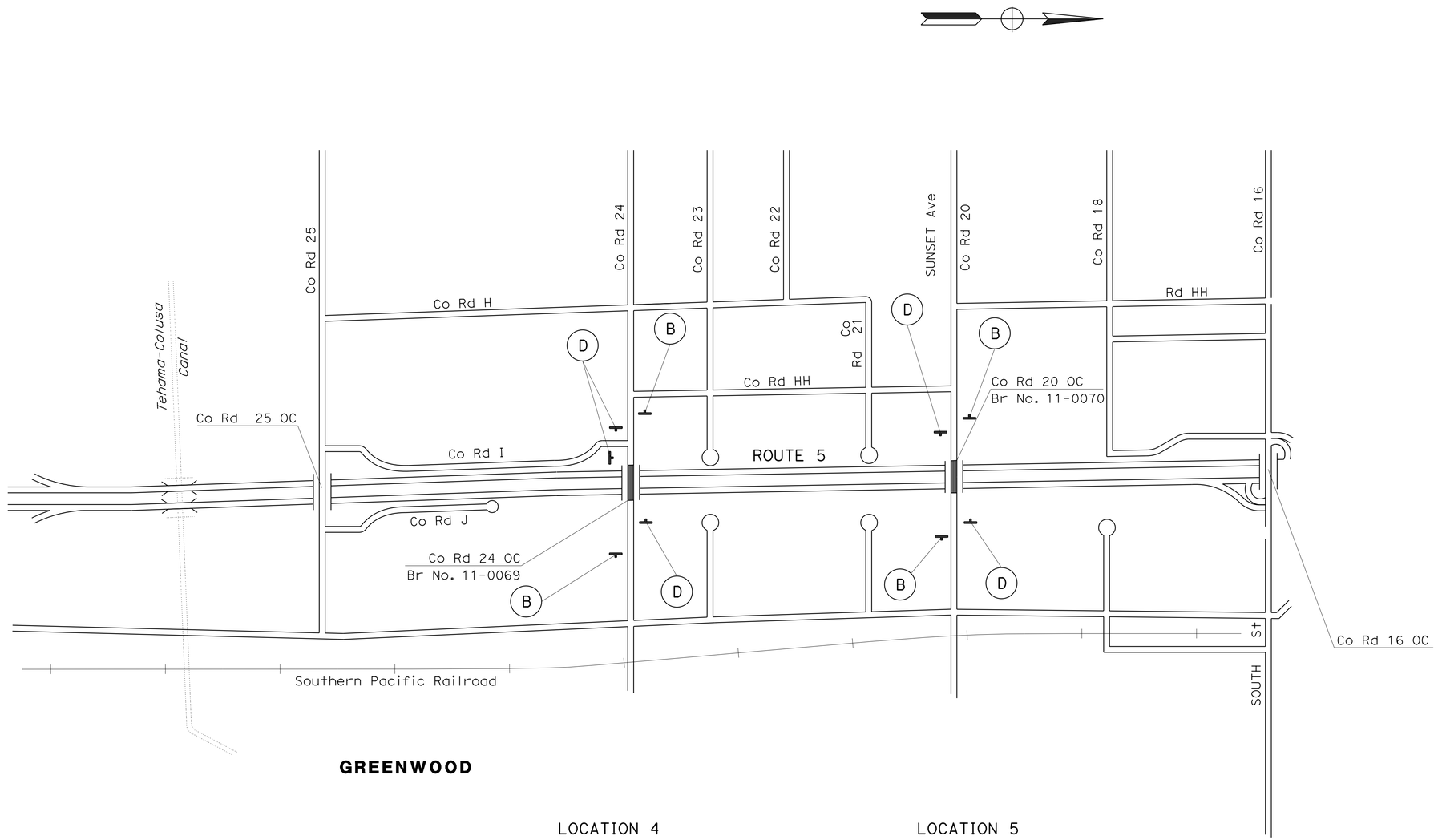

LOCATION 4

COUNTY ROAD 24 OC
GLENN 5 PM R22.81
Br No. 11-0069

LOCATION 5

COUNTY ROAD 20 OC
GLENN 5 PM R23.81
Br No. 11-0070

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE DESIGN

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DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 11:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	6	21

D. S. Lamb 11-26-12
REGISTERED CIVIL ENGINEER DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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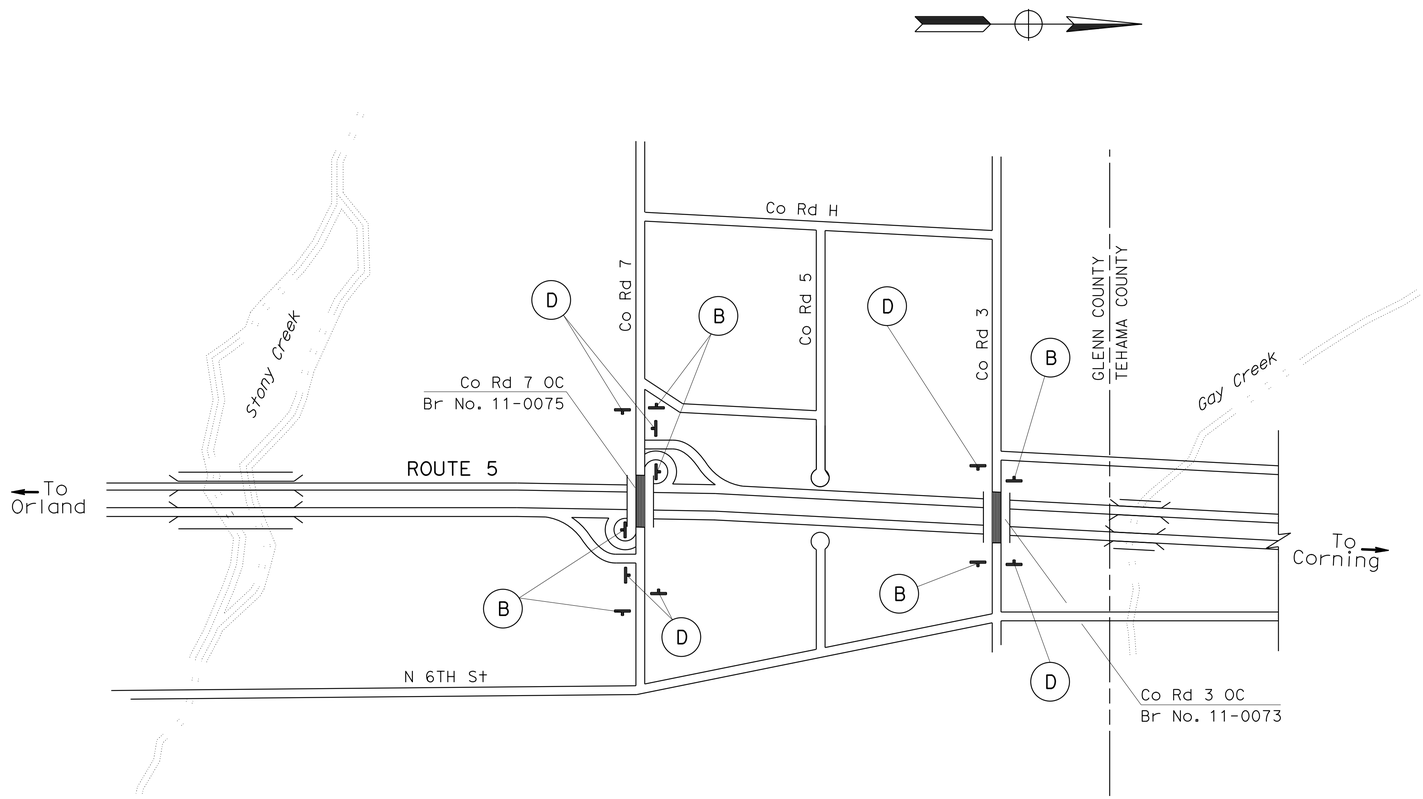

LOCATION 6

COUNTY ROAD 7 OC
GLENN 5 PM R27.81
Br No. 11-0075

LOCATION 7

COUNTY ROAD 3 OC
GLENN 5 PM R28.56
Br No. 11-0073

CONSTRUCTION AREA SIGNS

NO SCALE

CS-3

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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CHECKED BY: DAVID S. LAMB
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 11:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	7	21

D. S. Lamb 11-26-12
REGISTERED CIVIL ENGINEER DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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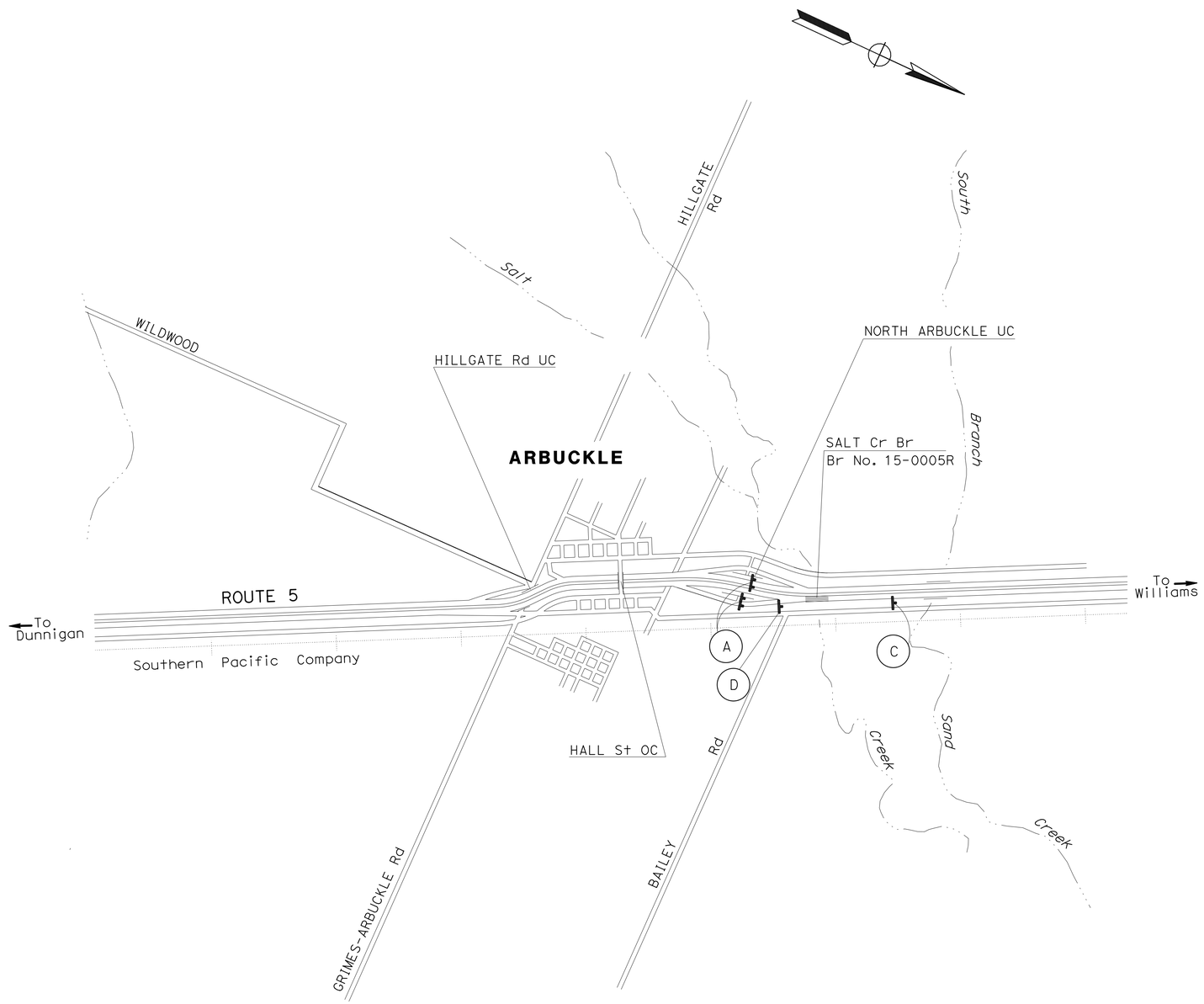

LOCATION 8
SALT CREEK BRIDGE
COLUSA 5 PM R7.99
Br No. 15-0005R

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE DESIGN

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CALCULATED-DESIGNED BY: ROBERT M. FLOYD II
CHECKED BY: DAVID S. LAMB
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 11:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	8	21

D. S. Lamb 11-26-12
REGISTERED CIVIL ENGINEER DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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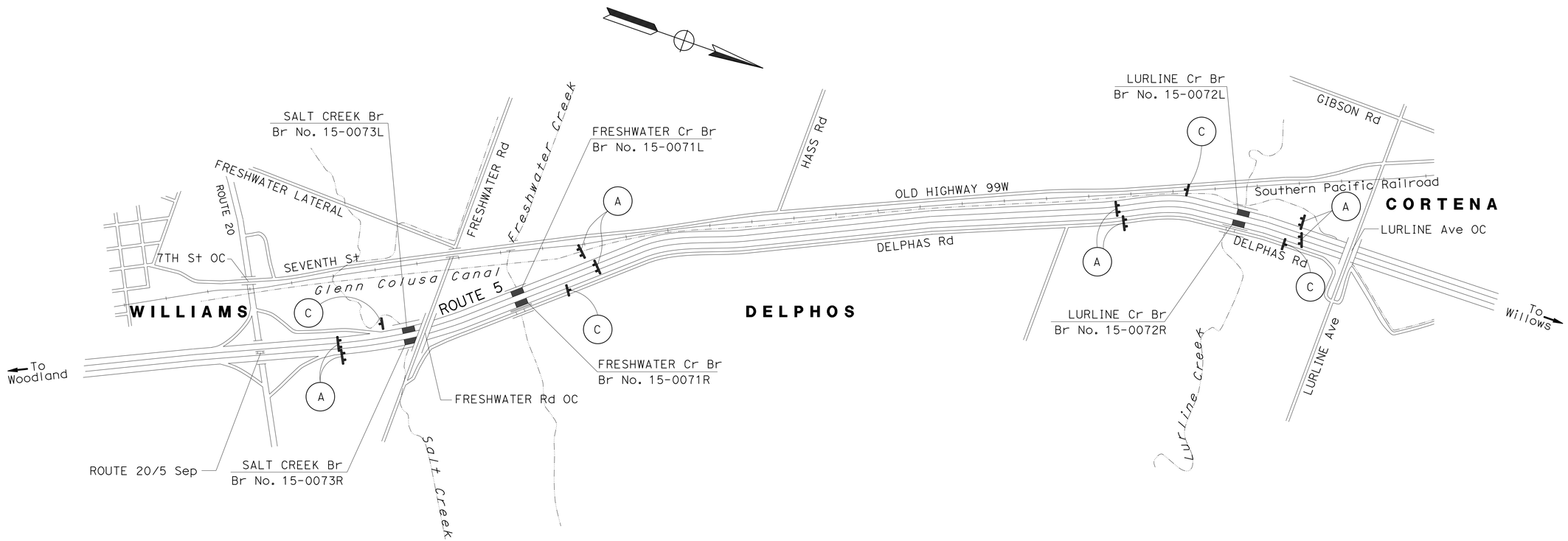

LOCATION 9	LOCATION 10	LOCATION 11	LOCATION 12	LOCATION 13	LOCATION 14
SALT CREEK BRIDGE COLUSA 5 PM R19.25 Br No. 15-0073R	SALT CREEK BRIDGE COLUSA 5 PM R19.25 Br No. 15-0073L	FRESHWATER CREEK BRIDGE COLUSA 5 PM R19.66 Br No. 15-0071R	FRESHWATER CREEK BRIDGE COLUSA 5 PM R19.66 Br No. 15-0071L	LURLINE CREEK BRIDGE COLUSA 5 PM R22.31 Br No. 15-0072R	LURLINE CREEK BRIDGE COLUSA 5 PM R22.32 Br No. 15-0072L

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: ROBERT M. FLOYD II
CHECKED BY: DAVID S. LAMB
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 11:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	9	21

REGISTERED CIVIL ENGINEER 11-26-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DAVID S. LAMB No. C53386 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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

REMOVE PAVEMENT DELINEATION QUANTITIES

LOCATION	COUNTY	ROUTE	BRIDGE NUMBER	DESCRIPTION	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)
					LF	LF
2	Gle	5	11-0063L	BOYD OVERFLOW	708	354
4	Gle	5	11-0069	COUNTY ROAD 24 OC		468
5	Gle	5	11-0070	COUNTY ROAD 20 OC		468
6	Gle	5	11-0075	COUNTY ROAD 7 OC	564	564
7	Gle	5	11-0073	COUNTY ROAD 3 OC		480
9	Col	5	15-0073R	SALT CREEK BRIDGE	720	720
10	Col	5	15-0073L	SALT CREEK BRIDGE	720	720
15	Col	5	15-0058	DELEVAN ROAD OC	424	424
				TOTAL	3,136	4,198

PAVEMENT DELINEATION QUANTITIES

LOCATION	COUNTY	ROUTE	POST MILE	BRIDGE NUMBER	DESCRIPTION	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36 - 12)	4" THERMOPLASTIC TRAFFIC STRIPE			
						DETAIL 12	DETAIL 21	DETAIL 22	DETAIL 25	DETAIL 27B
						LF	LF	LF	LF	LF
1	Gle	5	R11.98	11-0063R	BOYD OVERFLOW	354			354	354
2	Gle	5	R11.98	11-0063L	BOYD OVERFLOW	354			354	354
4	Gle	5	R22.81	11-0069	COUNTY ROAD 24 OC		468			
5	Gle	5	R23.81	11-0070	COUNTY ROAD 20 OC			468		
6	Gle	5	R27.81	11-0075	COUNTY ROAD 7 OC		564			480
7	Gle	5	R28.56	11-0073	COUNTY ROAD 3 OC		480			
8	Col	5	R7.99	15-0005R	SALT CREEK	342			342	342
9	Col	5	R19.25	15-0073R	SALT CREEK	360			360	360
10	Col	5	R19.25	15-0073L	SALT CREEK	360			360	360
11	Col	5	R19.66	15-0071R	FRESHWATER CREEK	252			252	252
12	Col	5	R19.66	15-0071L	FRESHWATER CREEK	252			252	252
13	Col	5	R22.31	15-0072R	LURLINE CREEK	332			332	332
14	Col	5	R22.32	15-0072L	LURLINE CREEK	332			332	332
15	Col	5	R31.81	15-0058	DELEVAN ROAD OC			424		424
SUBTOTAL						2,938	1,512	892	2,938	3,842
TOTAL						2,938	9,184			

PAVEMENT DELINEATION QUANTITIES

LOCATION	COUNTY	ROUTE	BRIDGE NUMBER	DESCRIPTION	DETAIL NUMBER	PAVEMENT MARKER (RETROREFLECTIVE)		
						TYPE D	TYPE G	TYPE H
						EA	EA	EA
1	Gle	5	11-0063R	BOYD OVERFLOW	12, 25		8	8
2	Gle	5	11-0063L	BOYD OVERFLOW	12, 25		8	8
5	Gle	5	11-0070	COUNTY ROAD 20 OC	22	130		
8	Col	5	15-0005R	SALT CREEK	12, 25		8	8
9	Col	5	15-0073R	SALT CREEK	12, 25		8	8
10	Col	5	15-0073L	SALT CREEK	12, 25		6	6
11	Col	5	15-0071R	FRESHWATER CREEK	12, 25		6	6
12	Col	5	15-0071L	FRESHWATER CREEK	12, 25		9	9
13	Col	5	15-0072R	LURLINE CREEK	12, 25		9	9
14	Col	5	15-0072L	LURLINE CREEK	12, 25		8	8
15	Col	5	15-0058	DELEVAN ROAD OC	22	118		
SUBTOTAL						248	70	70
TOTAL						388		

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: ROBERT M. FLOYD II
CHECKED BY: DAVID S. LAMB
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 11:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	10	21

D. S. Lamb 11-26-12
REGISTERED CIVIL ENGINEER DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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ROADWAY QUANTITIES

LOCATION NUMBER	COUNTY AND ROUTE	BRIDGE NUMBER	DESCRIPTION	HOT MIX ASPHALT (TYPE A)	COLD PLANE AC PAVEMENT	TACK COAT
				TON	SQYD	TON
1	Gle 5	11-0063R	BOYD OVERFLOW	97	867	0.18
2	Gle 5	11-0063L	BOYD OVERFLOW	140	867	0.18
4	Gle 5	11-0069	COUNTY ROAD 24 OC	29	152	0.04
5	Gle 5	11-0070	COUNTY ROAD 20 OC	29	152	0.04
6	Gle 5	11-0075	COUNTY ROAD 7 OC	32	167	0.04
7	Gle 5	11-0073	COUNTY ROAD 3 OC	29	152	0.04
8	Col 5	15-0005R	SALT CREEK BRIDGE	140	867	0.18
9	Col 5	15-0073R	SALT CREEK BRIDGE	97	867	0.18
10	Col 5	15-0073L	SALT CREEK BRIDGE	97	867	0.18
11	Col 5	15-0071R	FRESHWATER CREEK BRIDGE	97	867	0.18
12	Col 5	15-0071L	FRESHWATER CREEK BRIDGE	97	867	0.18
13	Col 5	15-0072R	LURLINE CREEK BRIDGE	62	534	0.12
14	Col 5	15-0072L	LURLINE CREEK BRIDGE	62	534	0.12
SUBTOTAL				1,008	7,760	1.66
TOTAL				1,008	7,760	1.66

NOTE:
COLD PLANE OF APPROACH AND DEPARTURE IS EP TO EP, EXCEPT AT LOCATIONS 13 AND 14 WHERE COLD PLANE GOES FROM ETW TO ETW.

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: ROBERT M. FLOYD II
CHECKED BY: DAVID S. LAMB
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 11:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	11	21

REGISTERED CIVIL ENGINEER 11-26-12 DATE

11-26-12
PLANS APPROVAL DATE

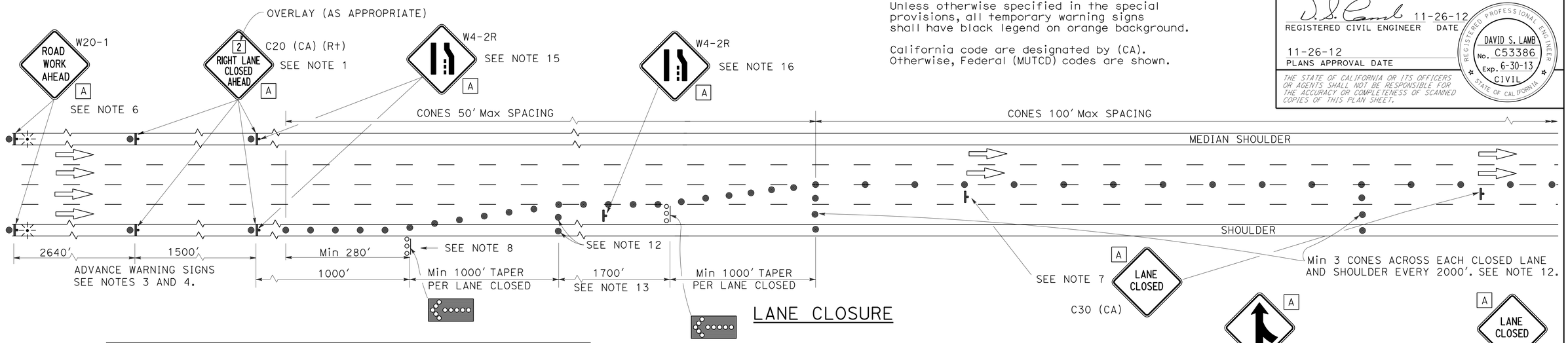
REGISTERED PROFESSIONAL ENGINEER DAVID S. LAMB No. C53386 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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

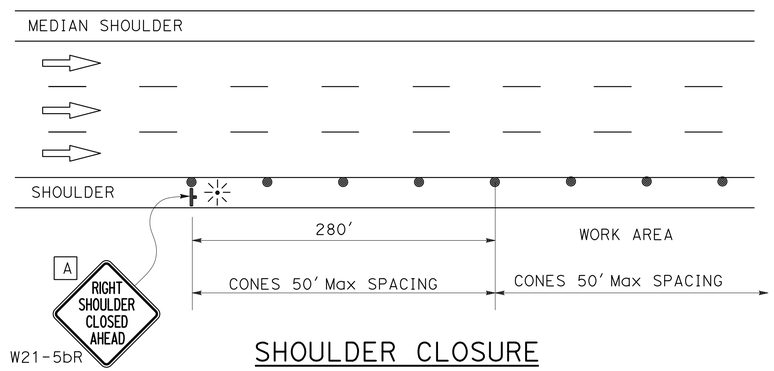
NOTES:

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

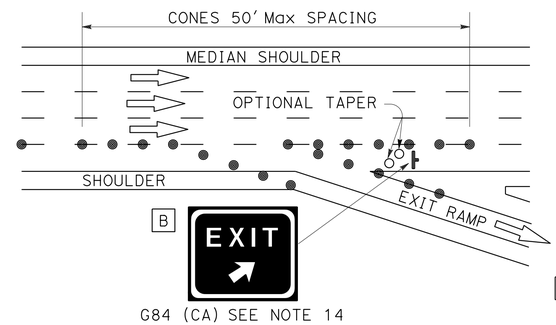
California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



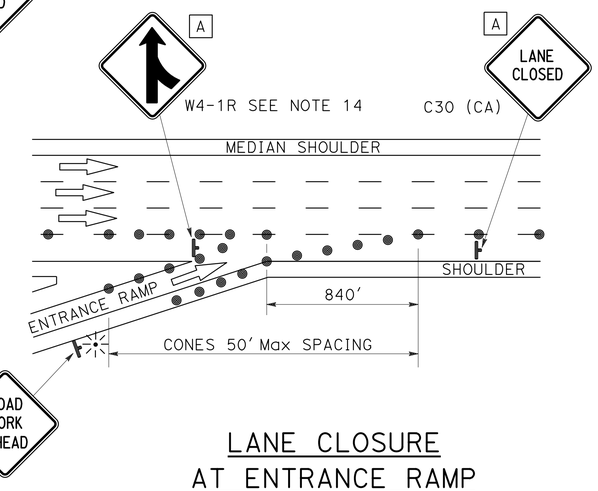
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT EXIT RAMP



LANE CLOSURE AT ENTRANCE RAMP

NOTES:

1. Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) 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 C14 (CA) "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.
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "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 first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
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 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
15. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
16. The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	54" x 48"

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

TCS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR RONALD S. SYKES
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED => 10-DEC-2012 TIME PLOTTED => 11:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	12	21

REGISTERED CIVIL ENGINEER 11-26-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DAVID S. LAMB No. C53386 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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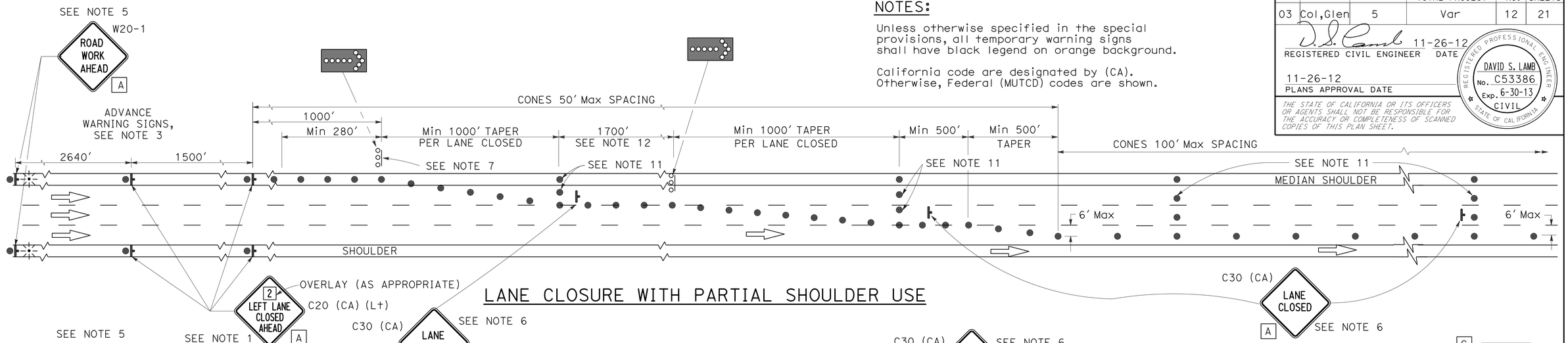
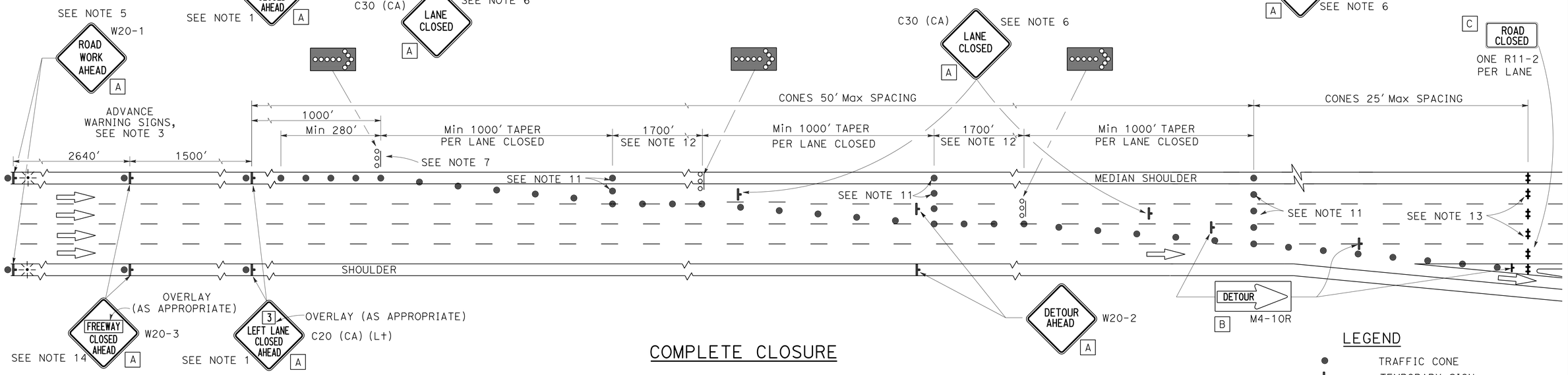
NOTES:

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

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



LANE CLOSURE WITH PARTIAL SHOULDER USE



COMPLETE CLOSURE

LEGEND

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

NOTES:

1. Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details for inside lane closure except that C20 (CA) (Rt) 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. 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.
4. A C14 (CA) "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.
5. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT ___ MILES", use a C20 (CA) sign for the first advance warning sign.
6. Place a C30 (CA) sign every 2000' throughout length of lane closure.
7. One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
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. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
10. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
11. 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 With Partial Shoulder Use" 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.
12. Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
13. A minimum of Two Type II barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
14. When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE AND COMPLETE CLOSURES ON FREEWAYS AND EXPRESSWAYS

NO SCALE

TCS-2

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RONALD S. SYKES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 11:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	13	21

REGISTERED CIVIL ENGINEER 11-26-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DAVID S. LAMB No. C53386 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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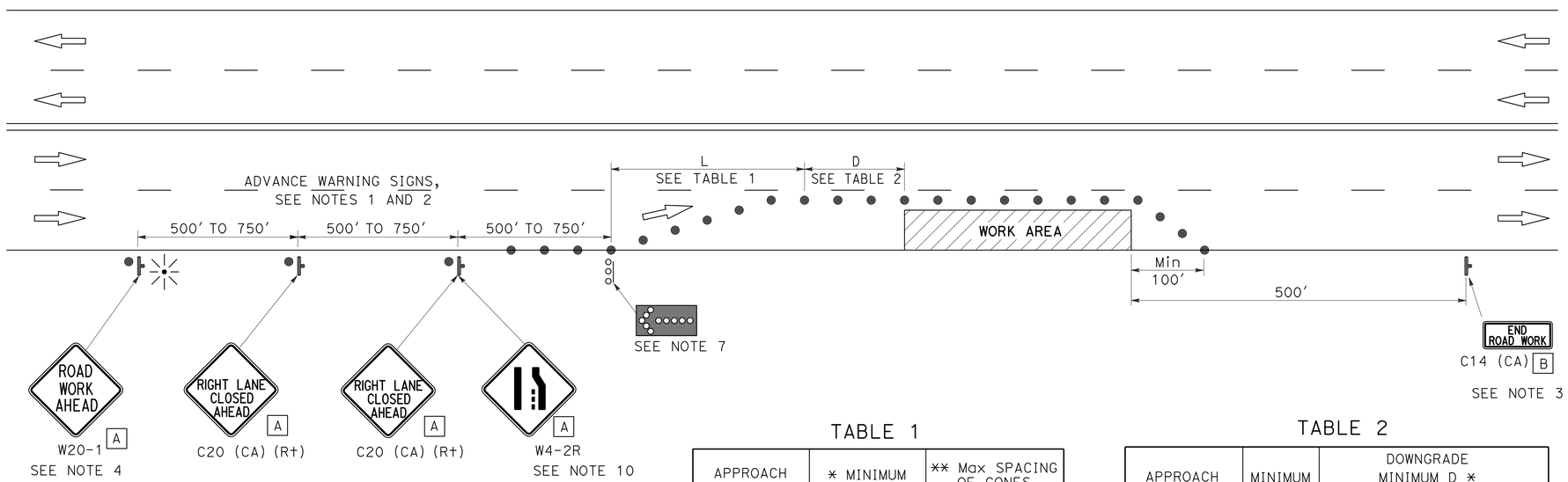
TYPICAL LANE CLOSURE



NOTES:

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

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

LEGEND

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

SIGN PANEL SIZE (Min)

A 36" x 36"

B 36" x 18"

TABLE 1

APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 AND BELOW	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
Over 50	SEE NOTE 9	

* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.
** SEE NOTE 8.

TABLE 2

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	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
OVER 50	SEE NOTE 9			

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
2. 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.
3. A C14 (CA) "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.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow sign shall be either Type I or Type II.
8. The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
9. 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.
10. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 11:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	14	21

REGISTERED CIVIL ENGINEER 11-26-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DAVID S. LAMB No. C53386 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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LEGEND

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

TABLE 1

APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 and below	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
OVER 50	SEE NOTE 11	

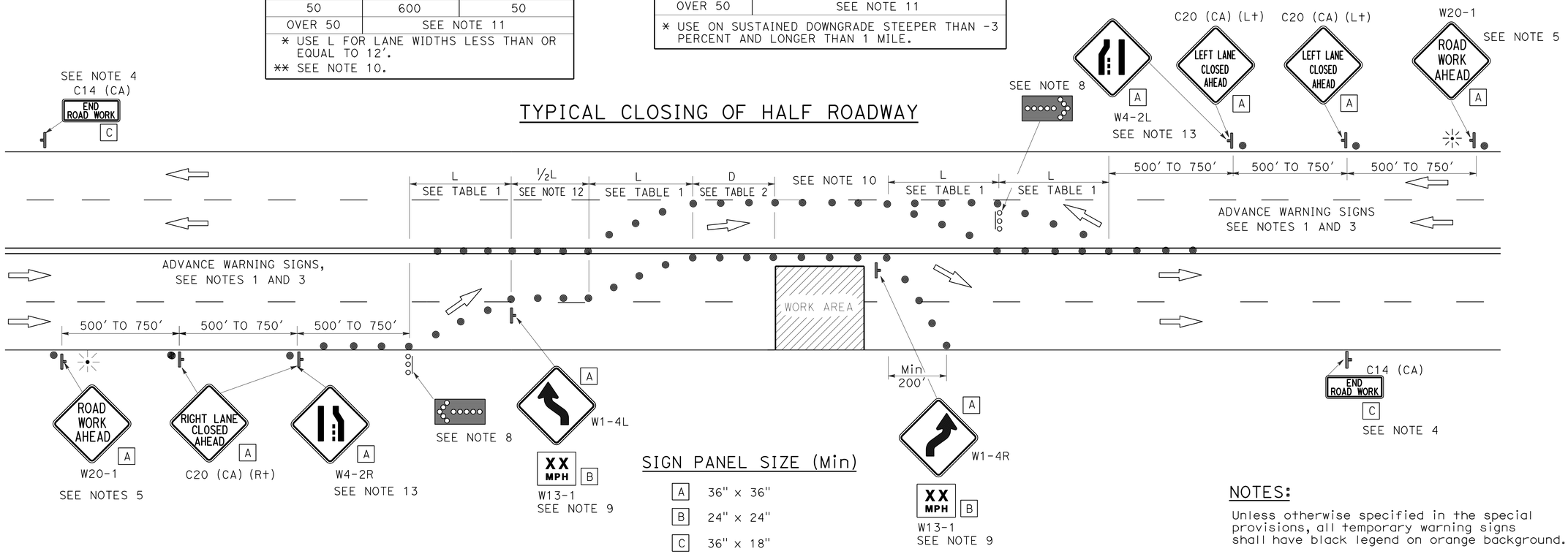
* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.
** SEE NOTE 10.

TABLE 2

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	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
OVER 50	SEE NOTE 11			

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

TYPICAL CLOSING OF HALF ROADWAY



SIGN PANEL SIZE (Min)

A	36" x 36"
B	24" x 24"
C	36" x 18"

NOTES:

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

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

NOTES:

1. Where Approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
2. 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.
3. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
4. A C14 (CA) "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.
5. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
6. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
7. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
8. Flashing arrow signs shall be either Type I or Type II.
9. Advisory speed will be determined by the Engineer. The W13-1 Sign will not be required when advisory speed is more than the posted or maximum speed limit.
10. The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
11. 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.
12. Unless otherwise specified in the special provisions, the (½ L) shown between the two (L) lane closure tapers shall be used.
13. When specified in the special provisions, a W4-2 "Lane Ends" symbol sign is to be used in place of the C20 (CA) "RIGHT (LEFT) LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-4

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 11:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	15	21

REGISTERED CIVIL ENGINEER 11-26-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DAVID S. LAMB No. C53386 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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NOTES:

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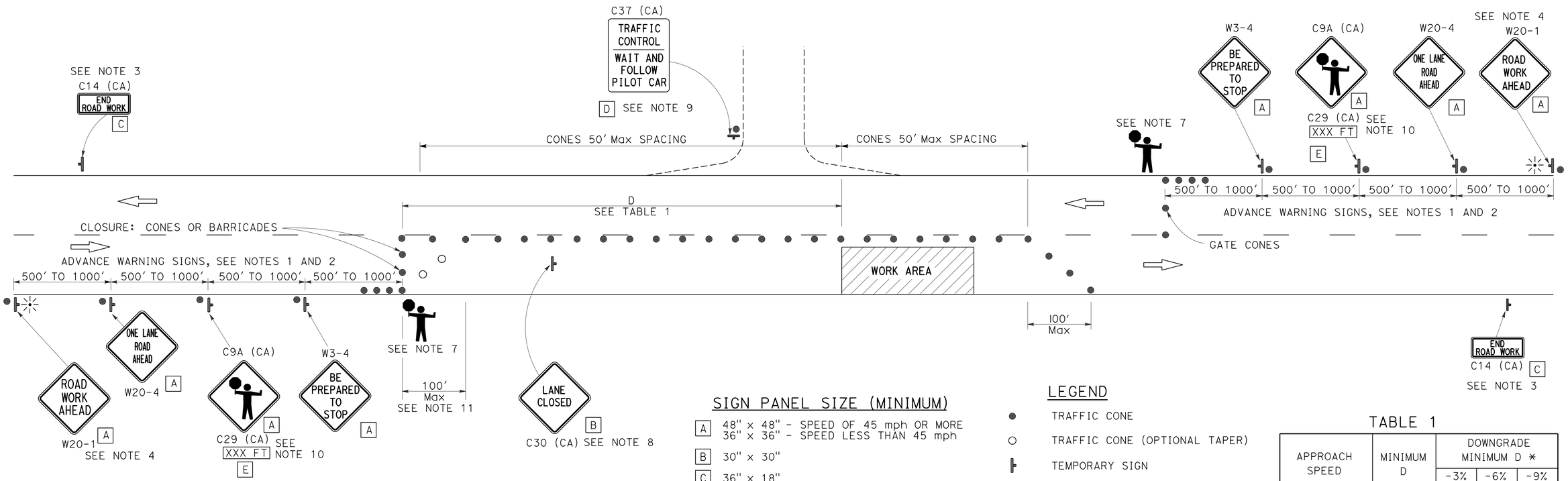
California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

- A — 48" x 48" - SPEED OF 45 mph OR MORE; 36" x 36" - SPEED LESS THAN 45 mph
- B — 30" x 30"
- C — 36" x 18"
- D — 36" x 42"
- E — 36" x 9"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	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

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
2. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____MILES", use a W20-4 sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
8. Place C30 (CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
9. When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
10. An optional C29 (CA) sign may be placed below the C9A (CA) sign.
11. Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE DESIGN
Caltrans
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY / CHECKED BY
REVISED BY / DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 11:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	16	21

REGISTERED CIVIL ENGINEER 11-26-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DAVID S. LAMB No. C53386 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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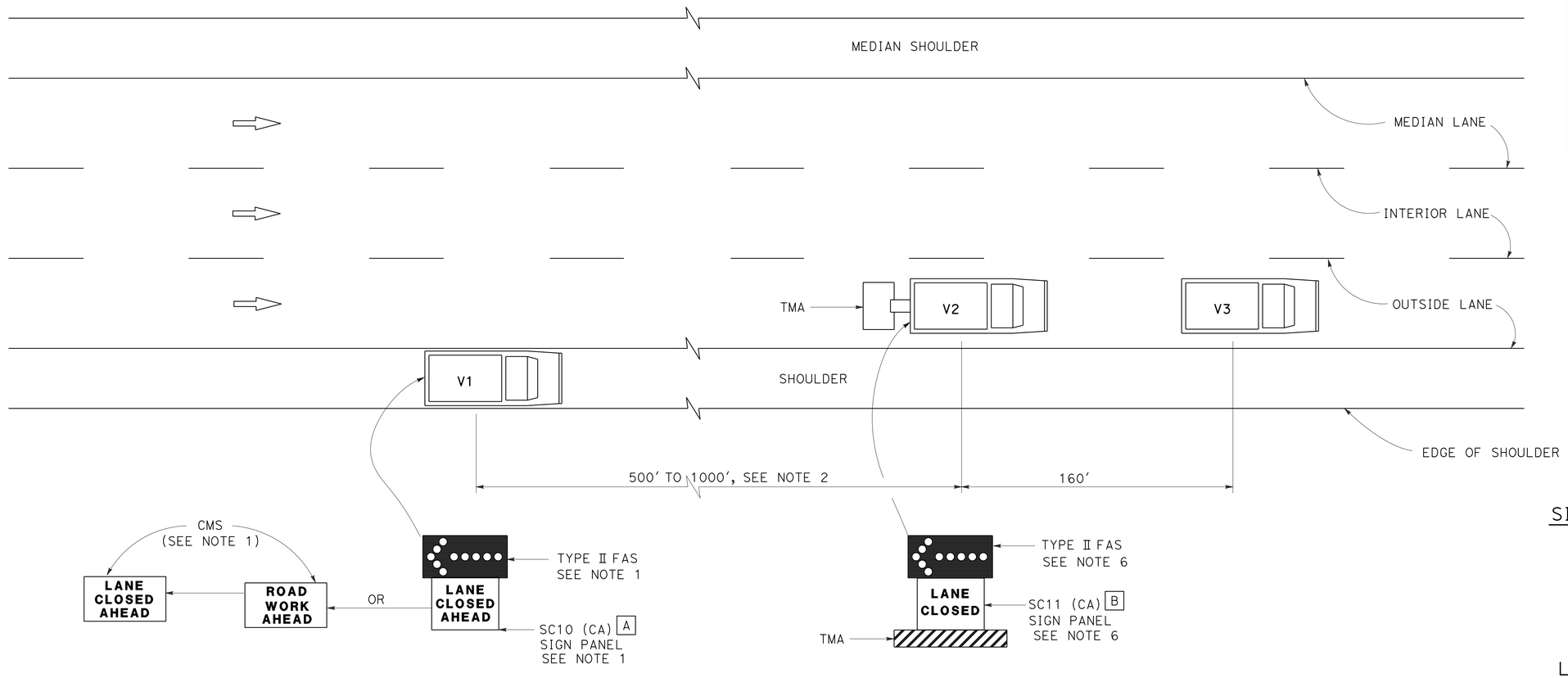

SIGN PANEL SIZE (Min)

A 66" x 36"

B 54" x 42"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS)
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

NOTES:

1. Either a changeable message sign or a SC10 (CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1 and used with the SC10 (CA) sign panel. A Type II flashing arrow sign will not be required with the changeable message sign provided the flashing arrow sign symbol is displayed on the changeable message sign board. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "LANE CLOSED AHEAD" message and then the flashing arrow sign symbol. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right.

2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.

3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.

4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.

5. Vehicle-mounted sign panels shall be Type III, IV, VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.

6. Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.

7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.

9. Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.

10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required, and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS (OUTSIDE AND MEDIAN LANES)

NO SCALE

TCS-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 11:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	17	21

REGISTERED CIVIL ENGINEER 11-26-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DAVID S. LAMB No. C53386 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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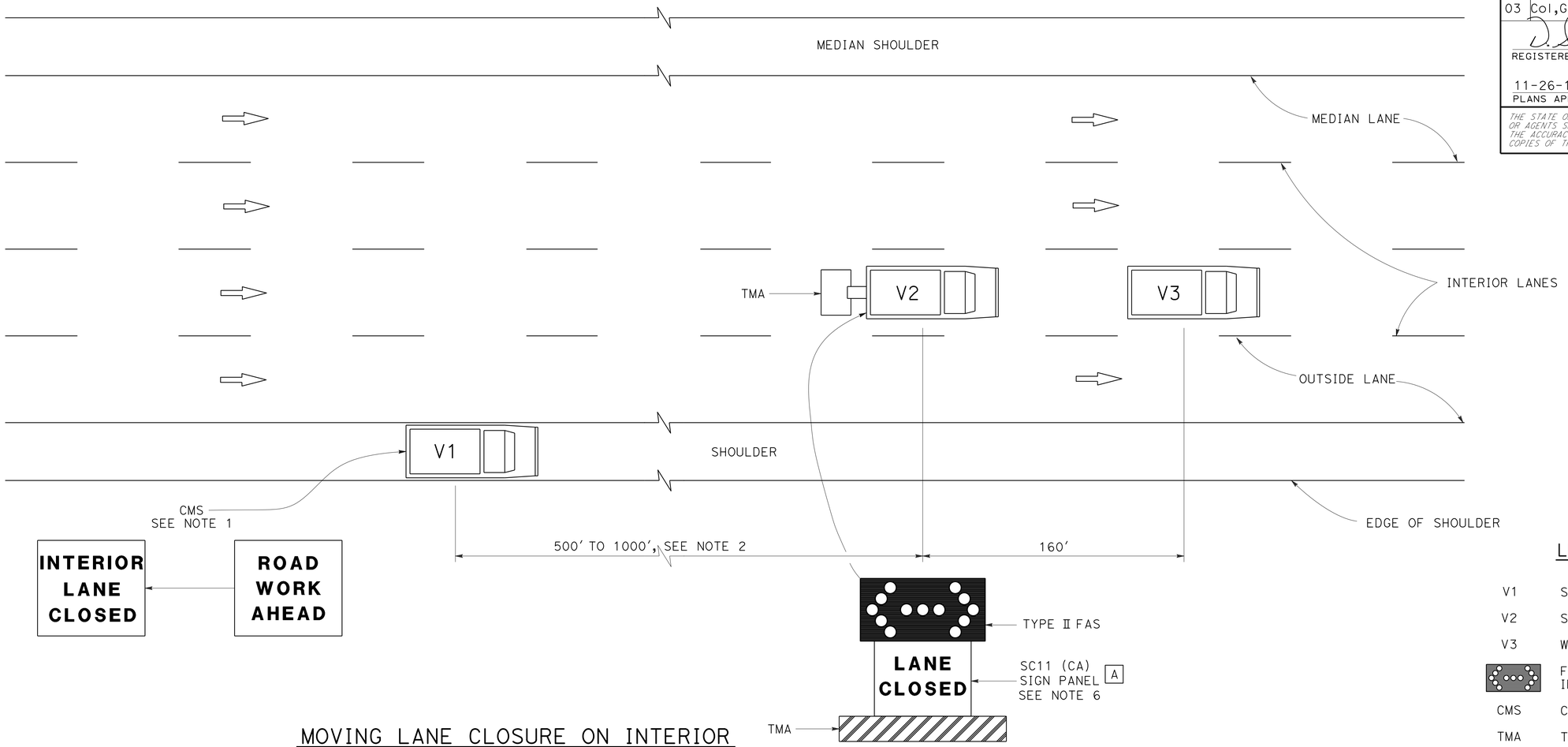

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS) IN FLASHING DOUBLE ARROW MODE
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall be Type III, IV, VII, VIII, or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required, and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS (INTERIOR LANES)

NO SCALE

TCS-7

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 11:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Glen	5	Var	18	21

REGISTERED CIVIL ENGINEER 11-26-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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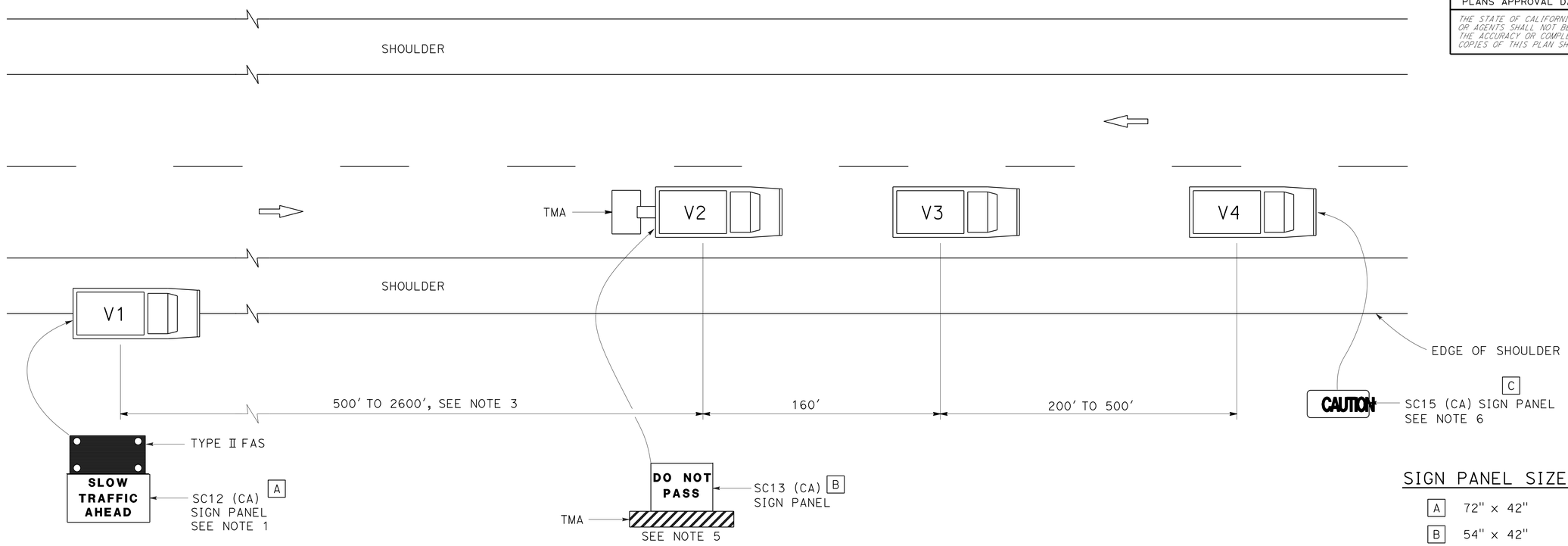

SIGN PANEL SIZE (Min)

A	72" x 42"
B	54" x 42"
C	54" x 24"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
V4	SIGN VEHICLE
TMA	TRUCK-MOUNTED ATTENUATOR
	FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE

NOTES:

1. Either a changeable message sign or a SC12 (CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign may be used with the SC12 (CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall be Type III, IV VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Gross Vehicle Weight of shadow vehicle shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

TCS-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR RONALD S. SYKES
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED => 10-DEC-2012 TIME PLOTTED => 11:20

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Gle	5	Var	19	21

REGISTERED CIVIL ENGINEER 8-13-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Diosdada Acoba No. 52003 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	JOINT SEAL DETAILS
3	QUANTITES

STANDARD PLANS DATED 2010

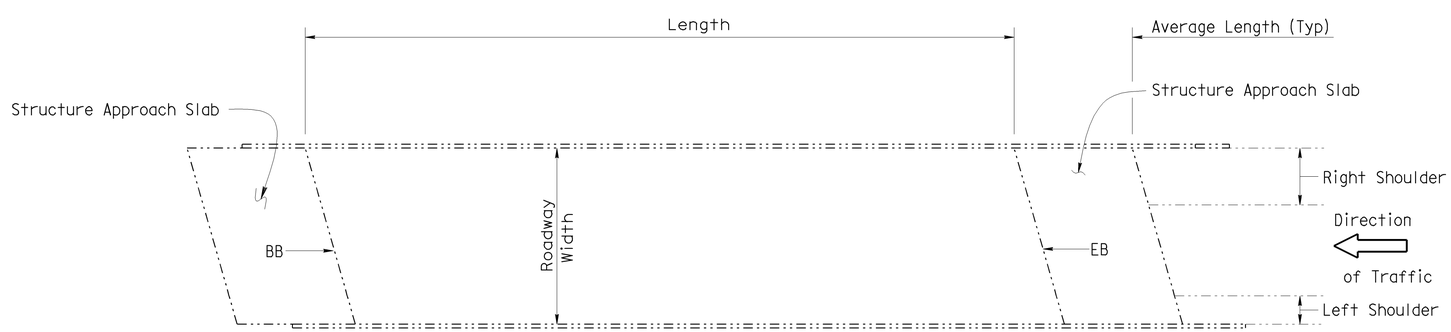
SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATION (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATION (SHEET 2 OF 2)
B0-3	BRIDGE DETAILS
B6-21	JOINT SEAL (MAXIMUM MOVEMENT RATING = 2")

NOTES: (APPLY TO THIS SHEET ONLY)

(1) See "ROAD PLANS" to conform to new deck or approach slab grades.

* Indicates area includes approach slabs.

COUNTY-ROUTE-PM-BRIDGE NAME-BRIDGE NUMBER	LENGTH (LF)	ROADWAY WIDTH (LF)	SHOULDER WIDTH (DIRECTION OF TRAVEL)		STRUCTURE APPROACH SLAB AVERAGE LENGTH (LF)		CLEAN EXPANSION JOINT (LF)	REMOVE AND REPLACE JOINT SEAL (LF)	PREPARE BRIDGE DECK (SF)	TREAT BRIDGE DECK (SF)	FURNISH BRIDGE DECK TREATMENT MATERIAL (LOW ODOR) (GAL)	FURNISH POLYESTER CONCRETE (CF)	PLACE POLYESTER CONCRETE (SF) Depth = 3/4"±	REMOVE AC OVERLAY DECK (SF) Depth = 1"±	REMOVE SLURRY SEAL (SF) Depth = 1/4"±	NOTE
			LEFT	RIGHT	BB	EB										
GLE-5-R11.98-Boyd Overflow-11-0063R	94.0	39.0	5.0	10.0	30	30	50.0	50.0	5226*			392*	5226*	4004*		(1)
GLE-5-R11.98-Boyd Overflow-11-0063L	94.0	39.0	5.0	10.0	30	30	80.0	80.0	6006*			450*	6006*	2340*		(1)
GLE-5-R12.39-South Fork Willow Creek-11-0058R	210.0	39.0	5.0	10.0			80.0	80.0								
GLE-5-R22.81-County Road 24 OC-11-0069	194.0	28.0	0	0					5432	5432	60				56	
GLE-5-R23.81-County Road 20 OC-11-0070	194.0	28.0	0	0					5432	5432	60				61	
GLE-5-R27.81-County Road 7 OC-11-0075	241.0	30.3	4.3	2.0					7310	7310	81				56	
GLE-5-R28.56-County Road 3 OC-11-0073	197.5	28.0	0	0					5530	5530	61					
COL-5-R7.99-Salt Creek-15-0005R	82.5	40.0	5.0	8.0	30	30	82.0	82.0	5700*			428*	5700*	5700*		(1)
COL-5-R19.25-Salt Creek-15-0073R	99.8	39.0	5.0	10.0	30	30	80.0	80.0	6232*			467*	6232*		3892	(1)
COL-5-R19.25-Salt Creek-15-0073L	99.8	39.0	5.0	10.0	30	30	80.0	80.0	6232*			467*	6232*		5062*	(1)
COL-5-R19.66-Freshwater Creek-15-0071R	71.8	39.0	5.0	10.0			80.0	80.0	2800			210	2800		2800	(1)
COL-5-R19.66-Freshwater Creek-15-0071L	71.8	39.0	5.0	10.0			80.0	80.0	2800			210	2800		2800	(1)
COL-5-R22.32-Lurline Creek-15-0072R	71.8	39.0	5.0	10.0	30	30	80.0	80.0	5140*			386	5140*	5140*		(1)
COL-5-R22.32-Lurline Creek-15-0072L	71.8	39.0	5.0	10.0	30	30	80.0	80.0	5140*			386	5140*	2340*	2800	(1)
COL-5-R31.84-Delevan Road OC-15-0058	172.0	32.0	4.0	4.0					5504	5504	61					



TYPICAL PLAN

No Scale

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN ENGINEER 8-13-12	DESIGN	BY D. Acoba	CHECKED A. Nojoumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY N. Kelley	CHECKED A. Nojoumi	LAYOUT	BY N. Kelley / CHECKED D. Acoba
	QUANTITIES	BY D. Acoba	CHECKED A. Nojoumi	SPECIFICATIONS	BY J. Ramirez / PLANS AND SPECS COMPARED J. Ramirez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

ROUTE 5 BRIDGES
GENERAL PLAN

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000010
CONTRACT NO.: 03-4M4801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 1-27-12 11-13-12 11-19-12

SHEET 1 OF 3

FILE => 03_4m4801_g_gp.dgn

USERNAME => s121116 DATE PLOTTED => 30-NOV-2012 TIME PLOTTED => 10:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col,Gle	5	Var	20	21

REGISTERED CIVIL ENGINEER 8-13-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Diosdada Acoba No. 52003 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
Boyd Overflow	11-0063	Abut 1L	BB	0.5	40.0	No	12
		Abut 5L	EB	0.5	40.0	No	12
		Abut 1R	BB	0.5	25.0	No	12
		Abut 5R	EB	0.5	25.0	No	12
South Fork Willow Creek	11-0058R	Abut 1R	BB	1.0	40.0	No	12
		Abut 9R	EB	1.0	40.0	No	12
Salt Creek	15-0005R	Abut 1R	BB	1.0	41.0	No	12
		Abut 5R	EB	1.0	41.0	No	12
Salt Creek	15-0073	Abut 1L	BB	0.5	40.0	No	12
		Abut 5L	EB	0.5	40.0	No	12
		Abut 1R	BB	0.5	40.0	No	12
		Abut 5R	EB	0.5	40.0	No	12
Freshwater Creek	15-0071	Abut 1L	BB	0.5	40.0	No	12
		Abut 5L	EB	0.5	40.0	No	12
		Abut 1R	BB	0.5	40.0	No	12
		Abut 5R	EB	0.5	40.0	No	12
Lurline Creek	15-0072	Abut 1L	BB	0.5	40.0	No	12
		Abut 4L	EB	0.5	40.0	No	12
		Abut 1R	BB	0.5	40.0	No	12
		Abut 4R	EB	0.5	40.0	No	12

LEGEND:
BB - Paving Notch at beginning of bridge
EB - Paving Notch at end of bridge

DECK REPAIR TABLE
REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)

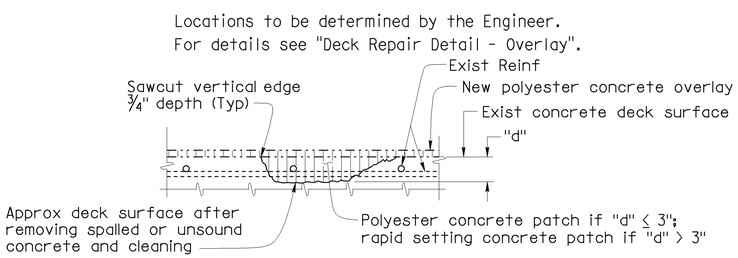
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
Boyd Overflow	11-0063L	1	3
Boyd Overflow	11-006R	1	3
Salt Creek	15-0005R	1	3
Salt Creek	15-0073L	1	3
Salt Creek	15-0073R	1	3
Freshwater Creek	15-0071L	1	3
Freshwater Creek	15-0071R	1	3
Lurline Creek	15-0072L	1	3
Lurline Creek	15-0072R	1	3

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 calculated 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 psi.
4) Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
5) For details not shown, see B6-21

The following notes apply to JOINT SEAL TYPE A:

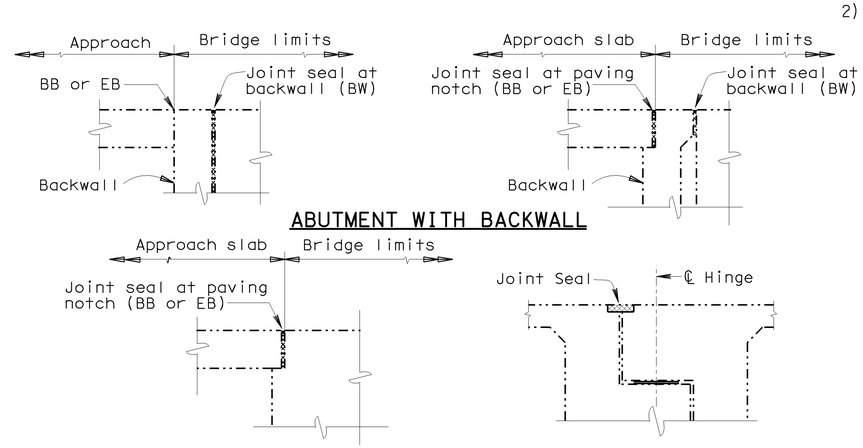
1) Install Type A joint seal 3" up into rail on the low side of deck where joint matches curb or rail joint.
2) For details not shown, see B6-21



DECK REPAIR DETAIL - OVERLAY

Note: Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal.

NO SCALE



JOINT SEAL LOCATION

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	BY	CHECKED
DESIGN	D. Acoba	A. Nojoumi
DETAILS	N. Kelley	A. Nojoumi
QUANTITIES	D. Acoba	A. Nojoumi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

ROUTE 5 BRIDGES
JOINT SEAL DETAILS

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000010
CONTRACT NO.: 03-4m4801

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES 1-26-12 11-15-12 11-19-12

SHEET 2 OF 3

FILE => 03_4m4801_b_detail.dgn

USERNAME => s121116 DATE PLOTTED => 30-NOV-2012 TIME PLOTTED => 10:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle,Col	5	Var	21	21

REGISTERED CIVIL ENGINEER 8-13-12 DATE

11-26-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Diosdada Acoba No. 52003 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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BOYD OVERFLOW BR NO.11-0063R/L

QUANTITIES

RAPID SETTING CONCRETE PATCH	18	CF
REMOVE ASPHALT CONCRETE SURFACING	6,344	SQFT
REMOVE UNSOUND CONCRETE	18	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	11,232	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	842	CF
PLACE POLYESTER CONCRETE OVERLAY	11,232	SQFT
CLEAN EXPANSION JOINT	130	LF
JOINT SEAL (MR 1/2")	130	LF

SOUTH FORK WILLOW CREEK BR NO.11-0058R

QUANTITIES

CLEAN EXPANSION JOINT	80	LF
JOINT SEAL (MR 1")	80	LF

COUNTY ROAD 24 BR NO.11-0069

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,432	SQFT
TREAT BRIDGE DECK	5,432	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	60	GAL
REMOVE SLURRY SEAL	56	SQFT

COUNTY ROAD 20 BR NO.11-0070

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,432	SQFT
TREAT BRIDGE DECK	5,432	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	60	GAL

COUNTY ROAD 7 BR NO.11-0075

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	7,310	SQFT
TREAT BRIDGE DECK	7,310	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	81	GAL
REMOVE SLURRY SEAL	61	SQFT

COUNTY ROAD 3 BR NO.11-0073

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,530	SQFT
TREAT BRIDGE DECK	5,530	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	61	GAL
REMOVE SLURRY SEAL	56	SQFT

SALT CREEK BR NO.15-0005R

QUANTITIES

RAPID SETTING CONCRETE PATCH	8	CF
REMOVE ASPHALT CONCRETE SURFACING	5,700	SQFT
REMOVE UNSOUND CONCRETE	8	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,700	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	428	CF
PLACE POLYESTER CONCRETE OVERLAY	5,700	SQFT
CLEAN EXPANSION JOINT	82	LF
JOINT SEAL (MR 1")	82	LF

SALT CREEK BR NO.15-0073R/L

QUANTITIES

RAPID SETTING CONCRETE PATCH	20	CF
REMOVE UNSOUND CONCRETE	20	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	12,464	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	934	CF
PLACE POLYESTER CONCRETE OVERLAY	12,464	SQFT
REMOVE SLURRY SEAL	8,954	SQFT
CLEAN EXPANSION JOINT	160	LF
JOINT SEAL (MR 1/2")	160	LF

FRESHWATER CREEK BR NO.15-0071R/L

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,600	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	420	CF
PLACE POLYESTER CONCRETE OVERLAY	5,600	SQFT
REMOVE SLURRY SEAL	5,600	SQFT
CLEAN EXPANSION JOINT	160	LF
JOINT SEAL (MR 1/2")	160	LF

LURLINE CREEK BR NO.15-0072R/L

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACE	7,480	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	10,280	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	772	CF
PLACE POLYESTER CONCRETE OVERLAY	10,280	SQFT
REMOVE SLURRY SEAL	2,800	SQFT
CLEAN EXPANSION JOINT	160	LF
JOINT SEAL (MR 1/2")	160	LF

DELEVAN ROAD BR NO.15-0058

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,504	SQFT
TREAT BRIDGE DECK	5,504	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	61	GAL

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	BY	CHECKED
DESIGN	D. Acoba	A. Nojoumi
DETAILS	N. Kelley	A. Nojoumi
QUANTITIES	D. Acoba	A. Nojoumi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

ROUTE 5 BRIDGES
QUANTITIES

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000010
CONTRACT NO.: 03-4m4801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 10-23-12 11-15-12 11-30-12

SHEET 3 OF 3

FILE => 03_4m4801_c_quantities.dgn

USERNAME => s121116 DATE PLOTTED => 30-NOV-2012 TIME PLOTTED => 10:48