

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	3	63

 2/4/15
 REGISTERED CIVIL ENGINEER DATE

3-2-15
 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
 Md Mustaqur Rahman
 No. 75824
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA

LOCATIONS OF CONSTRUCTION

LOCATION No.	BRIDGE No.	ROUTE	PM	STRUCTURE NAME	WORK DESCRIPTION (TENTATIVE)
23	33 0352	680	R11.81	SCOTTS CORNER SEPARATION 680/84	REPLACE JOINT SEALS AT BOTH ABUTMENTS IN BOTH DIRECTIONS.
					REPAIR ALL DECK SPALLS AND TREAT THE DECK WITH METHACRYLATE.
24	33 0386L	680	R12.44	KOOPMANN ROAD UC	REPLACE JOINT SEALS AT BOTH ABUTMENTS. REPAIR SPALLS.
25	33 0380	680	R15.89	PLEASANTON INDUSTRIAL PARK OH	REPLACE JOINT SEAL ON ABUTMENT 1 OF THE SOUTHBOUND, AND TYPE B COMPRESSION JOINT SEAL ON THE REMAINING LOCATIONS.
					REPAINT THE CORRECT BRIDGE IDENTIFICATION ON THE LEFT BARRIER RAIL NEAR ABUTMENT 5 (SOUTHBOUND). REPAIR DECK SPALLS.
26	33 0381	680	R15.98	PLEASANTON INDUSTRIAL PARK STREET UC	REPLACE JOINT SEALS AT BOTH ABUTMENTS ON BOTH THE NORTH AND SOUTHBOUND LANES.
					REPAIR THE DECK SPALLS ON NORTHBOUND LANE 1 WITH APPROVED PATCHING MATERIAL. REPAINT THE CORRECT BRIDGE IDENTIFICATION ON THE LEFT BARRIER RAIL (SB) NEAR ABUTMENT 4.
27	33 0371G	680	R20.03	ROUTE 680/580 SEPARATION N680/W580	REPLACE JOINT SEAL AT BOTH ABUTMENTS AND AT BENT 3.
28	33 0373	680	R20.39	DUBLIN Blvd UC	REPLACE JOINT SEALS AT BOTH ABUTMENTS IN BOTH THE NORTH AND SOUTH BOUND LANES.
					PAINT BRIDGE IDENTIFICATION ON LEFT BARRIER RAIL NEAR ABUTMENT 5 SOUTHBOUND. REPAIR THE SPALLS ON THE CONCRETE APPROACH PAVEMENT AT ABUTMENT 1 OF BOTH THE NORTHBOUND AND SOUTHBOUND LANES.
29	33 0251	880	14.18	WARD CREEK	REPLACE JOINT SEALS AT BOTH ABUTMENTS ON NORTHBOUND AND SOUTHBOUND DIRECTION AS SHOWN IN THE PLANS.
30	33 0478	980	0.70	14TH STREET OC	TREAT DECK WITH METHACRYLATE.
31	33 0440	980	1.11	SAN PABLO Ave UC	REPLACE AND RECONSTRUCT JOINT SEALS AS SHOWN IN THE PLANS. REPAINT BRIDGE IDENTIFICATION ON BOTH CONCRETE BRIDGE RAILS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: RONNIE CHUA
 MUSTAQUR RAHMAN
 TEREK NAWARD
 REVISOR: MR
 DATE: 3/2/15
 CALCULATED/DESIGNED BY: CHECKED BY:

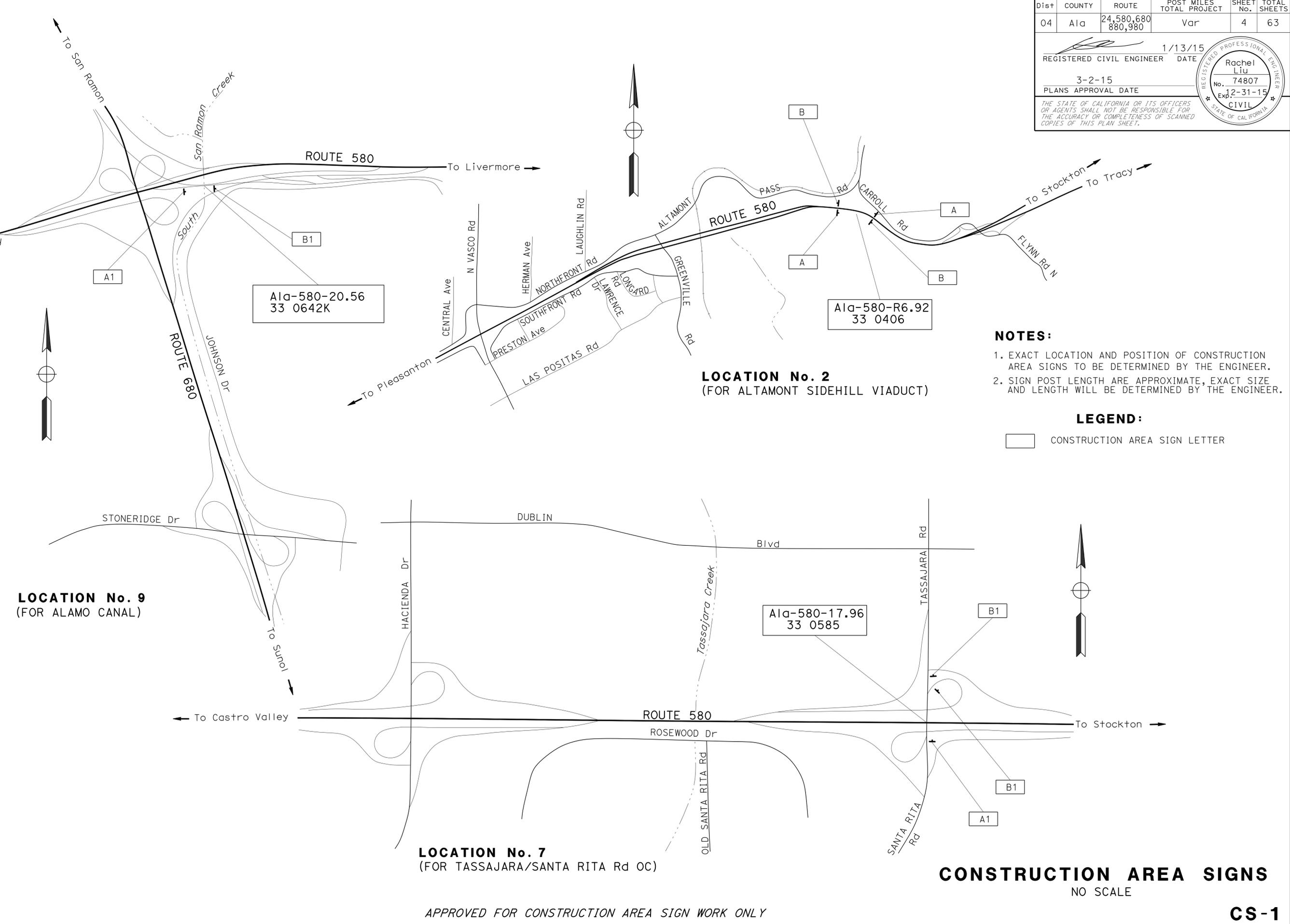
LOCATIONS OF CONSTRUCTION

LC-2

LAST REVISION | DATE PLOTTED => 13-MAR-2015
 03-02-15 | TIME PLOTTED => 13:04

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC

FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR	DATE
LOURDES DAVID	RACHEL LIU	RL	3/2/15
CHECKED BY	REVISOR	DATE	
	CLAUDIA FANG		



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	4	63

REGISTERED CIVIL ENGINEER DATE 1/13/15
 3-2-15
 PLANS APPROVAL DATE

Rachel Liu
 No. 74807
 Exp. 2-31-15
 CIVIL

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

- NOTES:**
1. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
 2. SIGN POST LENGTH ARE APPROXIMATE, EXACT SIZE AND LENGTH WILL BE DETERMINED BY THE ENGINEER.

LEGEND:

□ CONSTRUCTION AREA SIGN LETTER

CONSTRUCTION AREA SIGNS
 NO SCALE

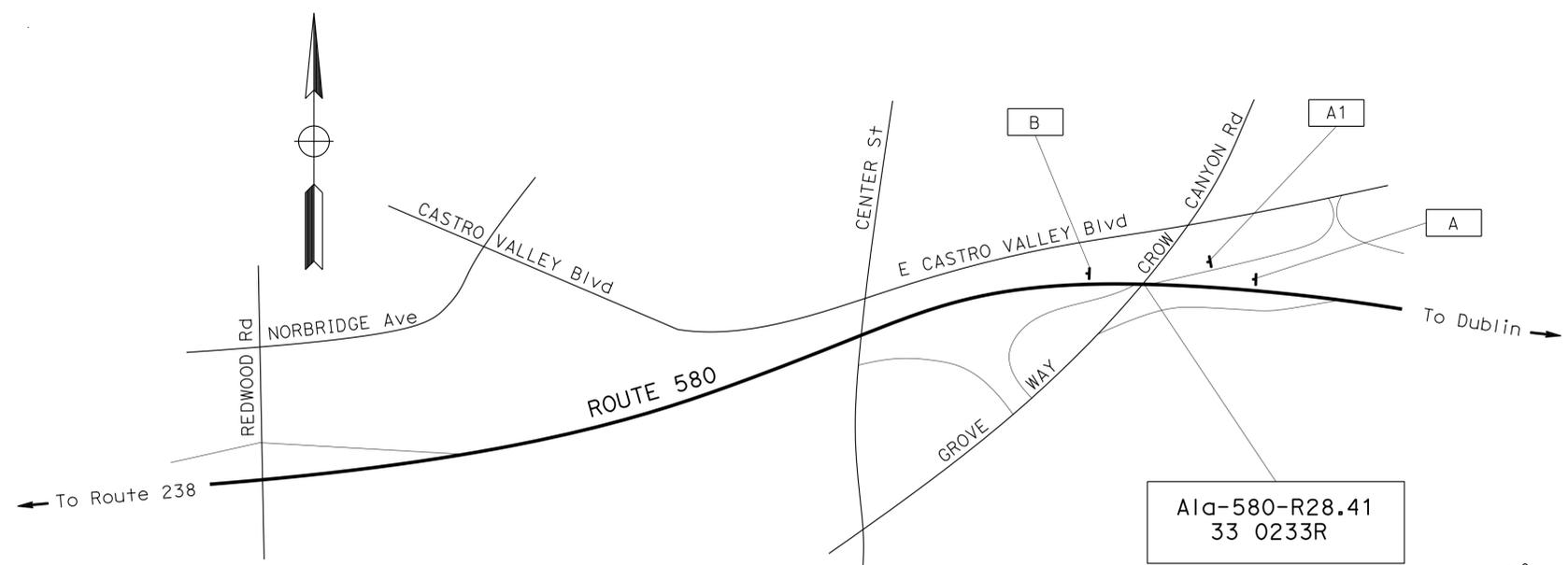
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

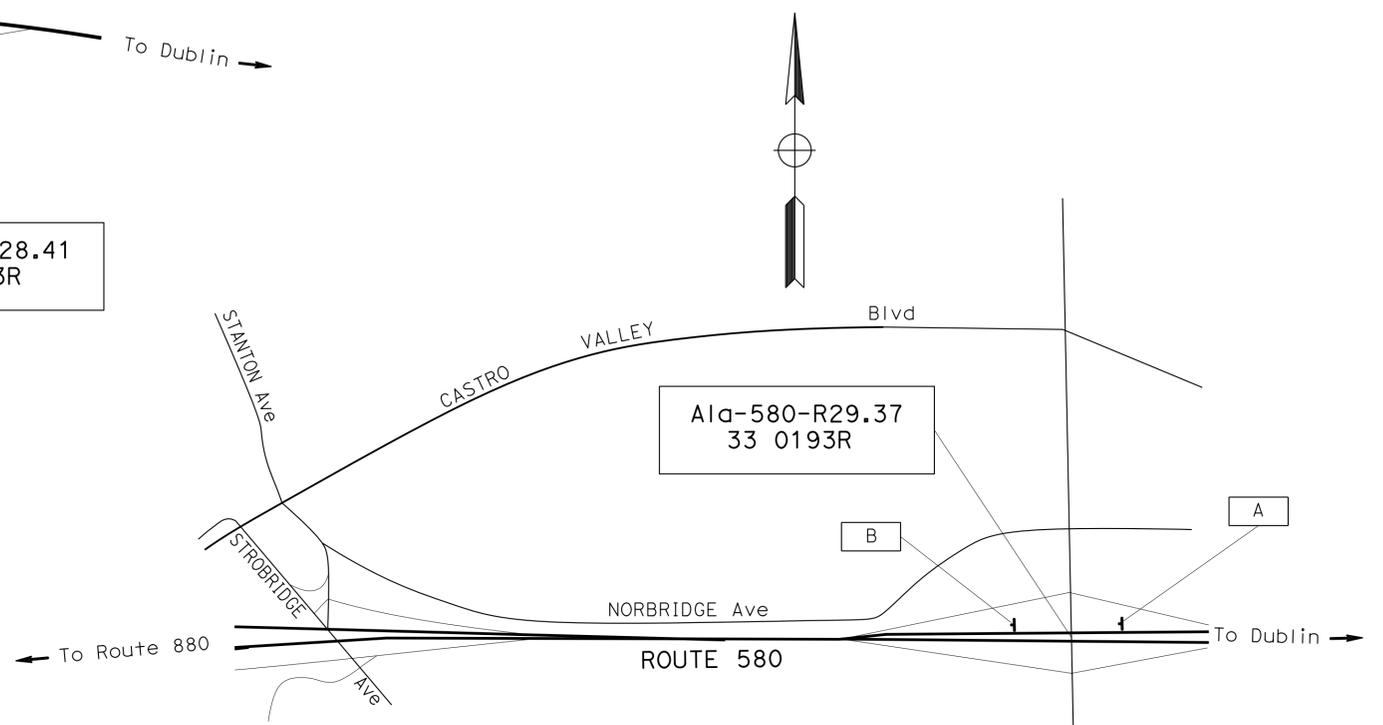
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: LOURDES DAVID
 TRAFFIC

REVISOR	RL	DATE	3/2/15
REVISOR	CLAUDIA FANG	DATE	
DESIGNER	RACHEL LTU	DATE	
CHECKER	CLAUDIA FANG	DATE	
APPROVER	LOURDES DAVID	DATE	

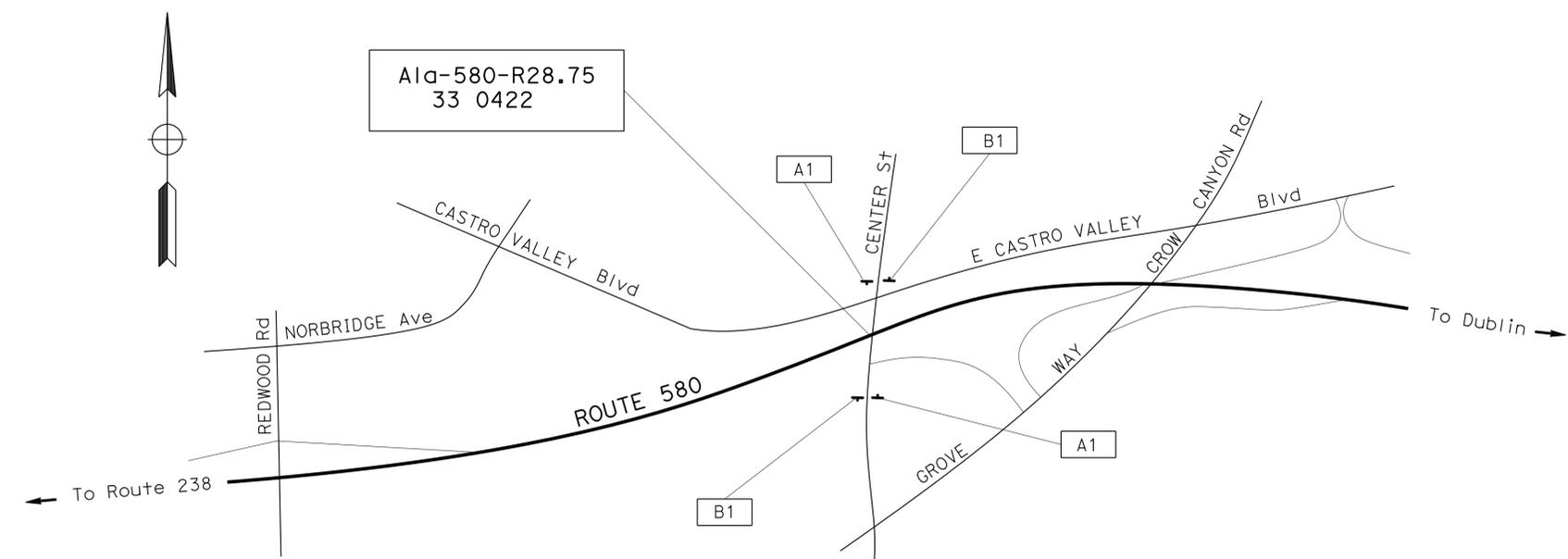
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	5	63
REGISTERED CIVIL ENGINEER			DATE	1/13/15	
PLANS APPROVAL DATE			3-2-15		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



LOCATION No. 11
(FOR CROW CANYON Rd UC)



LOCATION No. 13
(FOR REDWOOD Rd UC)



LOCATION No. 12
(FOR CENTER STREET OC)

CONSTRUCTION AREA SIGNS
NO SCALE

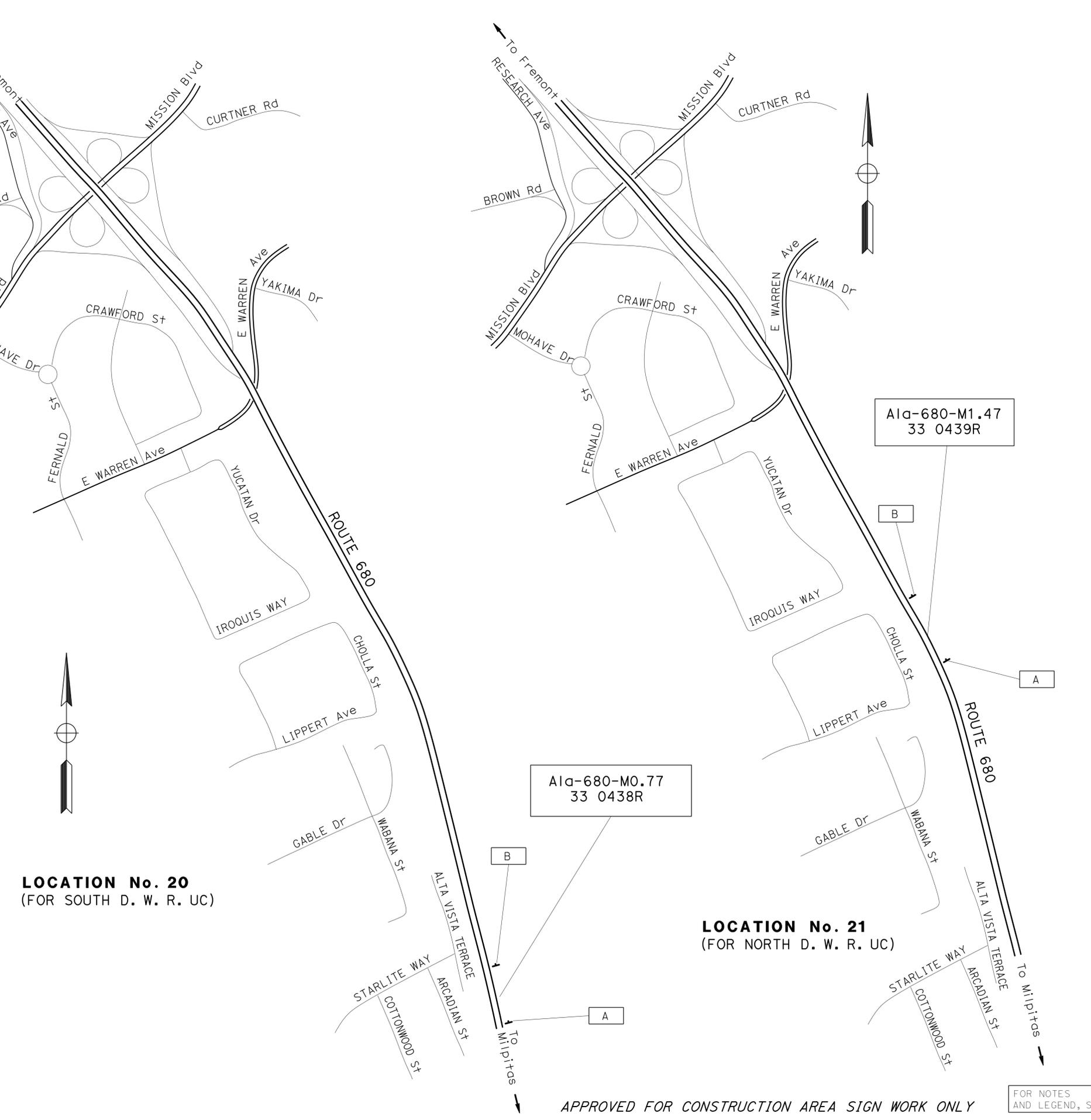
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, AND LEGEND, SEE SHEET CS-1

CS-2

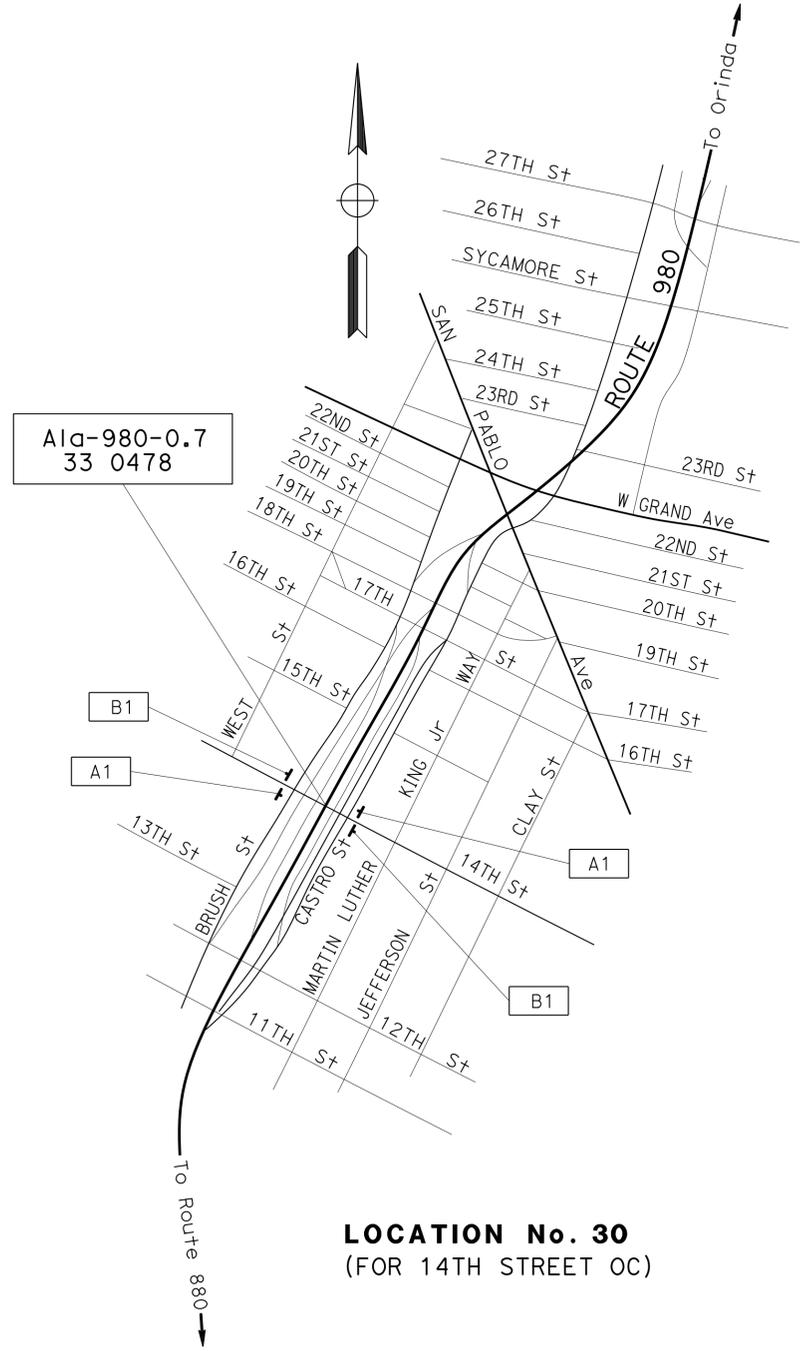
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: LOURDES DAVID
 TRAFFIC

REVISOR	DATE	REASON
RACHEL LIU	3/2/15	RL
CLAUDIA FANG		
CALCULATED/DESIGNED BY	CHECKED BY	



LOCATION No. 20
 (FOR SOUTH D. W. R. UC)

LOCATION No. 21
 (FOR NORTH D. W. R. UC)



LOCATION No. 30
 (FOR 14TH STREET OC)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	6	63

REGISTERED CIVIL ENGINEER DATE 1/13/15
 3-2-15
 PLANS APPROVAL DATE

Rachel Liu
 No. 74807
 Exp. 12-31-15
 CIVIL

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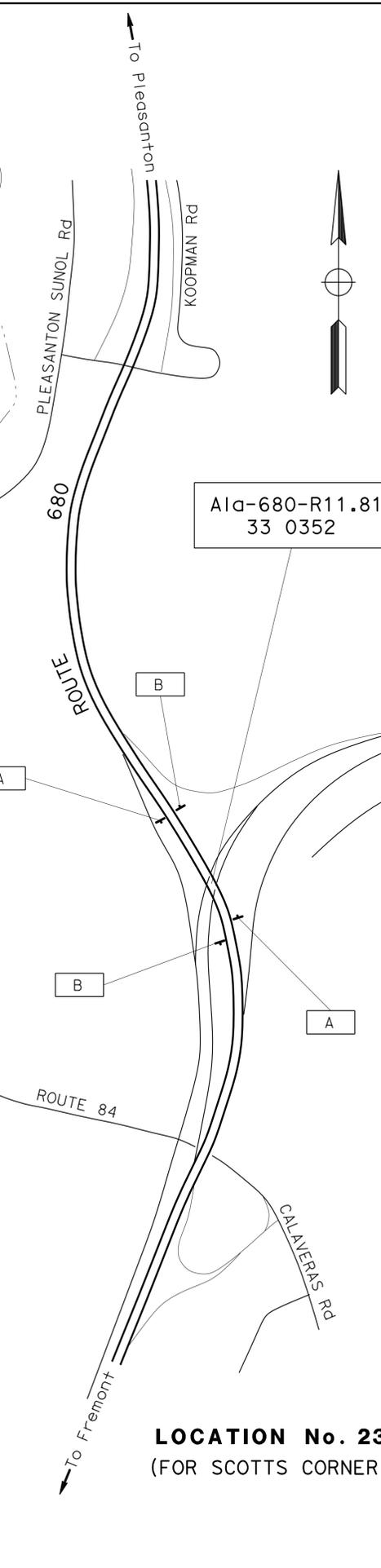
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-3

FUNCTIONAL SUPERVISOR	LOURDES DAVID
CALCULATED/DESIGNED BY	RACHEL LIU
CHECKED BY	CLAUDIA FANG
REVISOR	RL
DATE	3/2/15



LOCATION No. 23
 (FOR SCOTTS CORNER SEPARATION ROUTE 680/84)

Ala-680-R11.81
 33 0352

WB ROUTE 580 ON-RAMP
 FROM NB VASCO Rd
 CLOSED

DETOUR PLAN No. 1
 WB ROUTE 580 ON-RAMP FROM
 NB VASCO Rd
 CLOSURE

DETOUR VIA
NB VASCO Rd; ON-RAMP TO EB ROUTE 580; EB ROUTE 580; GREENVILLE Rd OFF-RAMP; TURN LEFT ONTO EB SOUTHFRONT Rd; TURN LEFT ONTO NB GREENVILLE Rd; TURN LEFT ONTO WB ALTAMONT PASS Rd; ON-RAMP TO WB ROUTE 580

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	7	63

1/13/15
 REGISTERED CIVIL ENGINEER DATE

3-2-15
 PLANS APPROVAL DATE

Rachel Liu
 No. 74807
 Exp. 12-31-15
 CIVIL

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APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	8	63

1/13/15
REGISTERED CIVIL ENGINEER DATE

3-2-15
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Rachel Liu
No. 74807
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®

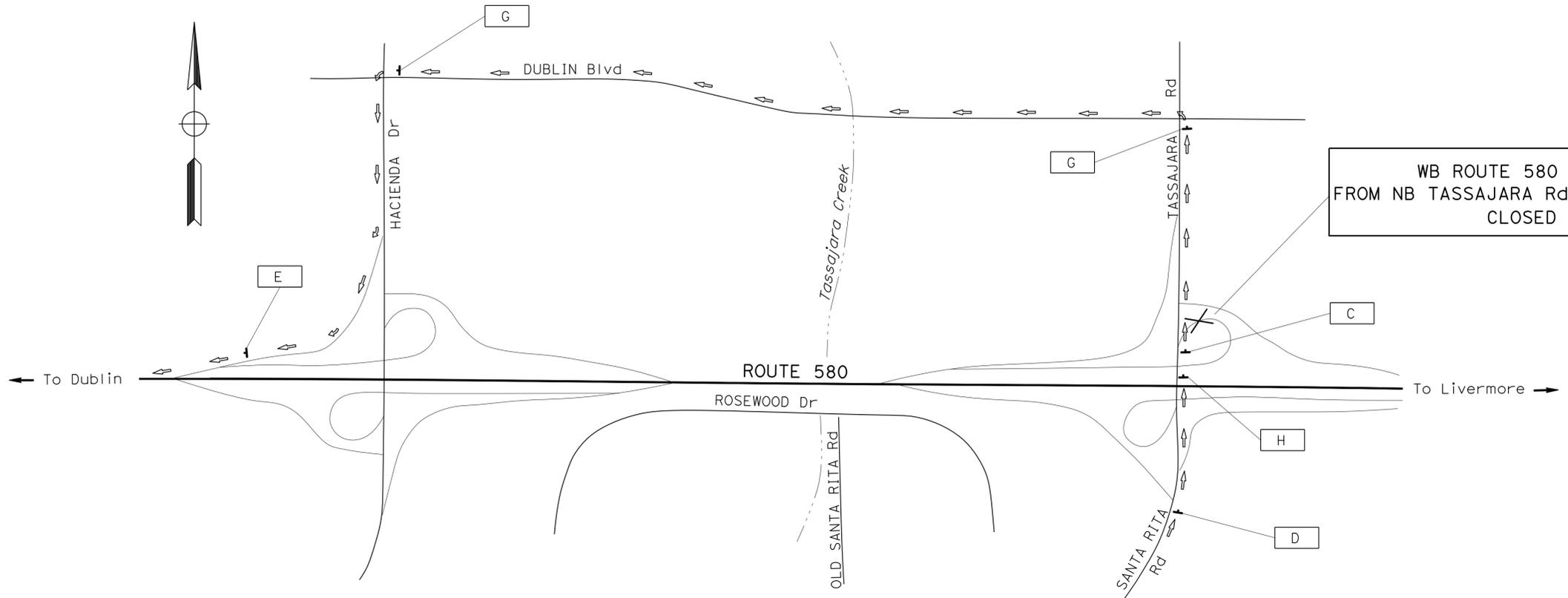
FUNCTIONAL SUPERVISOR
LOURDES DAVID

TRAFFIC

REVISOR
RACHEL LIU
CLAUDIA FANG

REVISIONS
REVISED BY
DATE REVISED
3/2/15

CALCULATED/DESIGNED BY
CHECKED BY

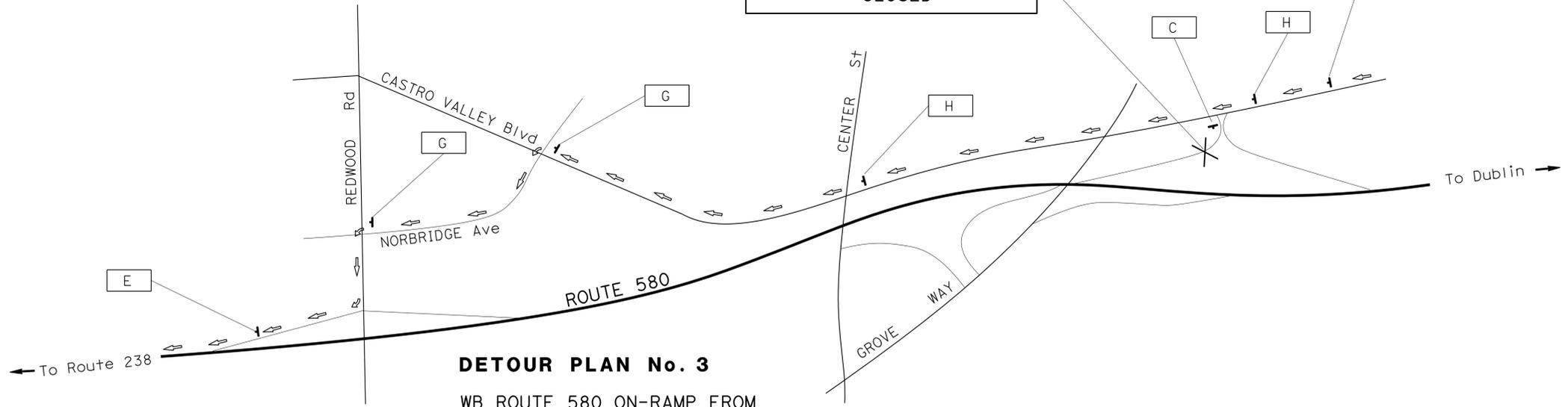


WB ROUTE 580 ON-RAMP FROM NB TASSAJARA Rd/SANTA RITA Rd CLOSED

DETOUR PLAN No. 2

WB ROUTE 580 ON-RAMP FROM NB TASSAJARA Rd/SANTA RITA Rd CLOSURE

DETOUR VIA
NB SANTA RITA Rd/TASSAJARA Rd; WB DUBLIN Blvd; SB HACIENDA Dr; ON-RAMP TO WB ROUTE 580



WB ROUTE 580 ON-RAMP FROM CASTRO VALLEY Blvd CLOSED

DETOUR PLAN No. 3

WB ROUTE 580 ON-RAMP FROM CASTRO VALLEY Blvd CLOSURE

DETOUR VIA
WB CASTRO VALLEY Blvd; SB NORBRIDGE Ave; SB REDWOOD Rd; ON-RAMP TO WB ROUTE 580

CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

CS-5

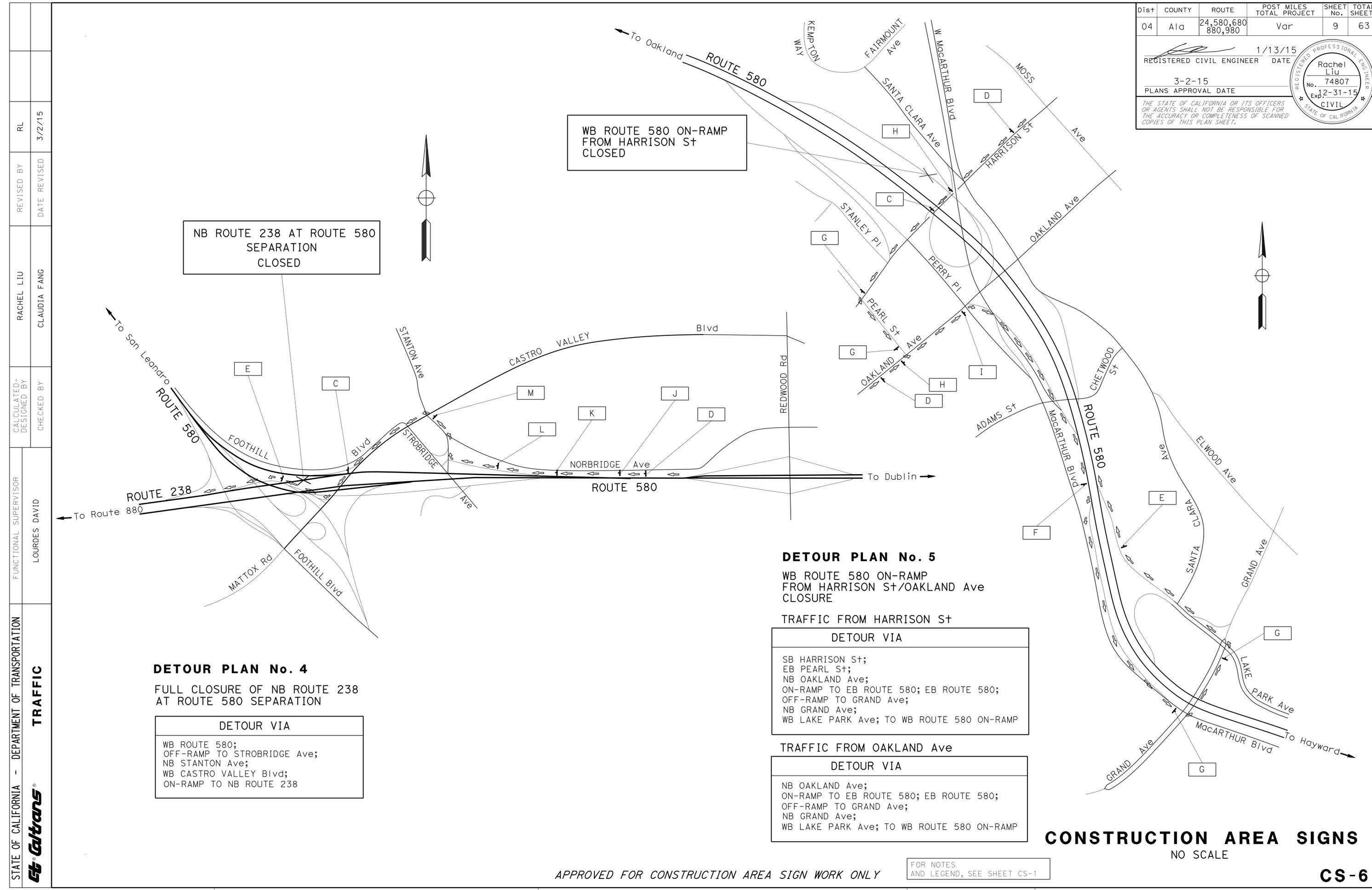
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	9	63

1/13/15
REGISTERED CIVIL ENGINEER DATE

3-2-15
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REGISTERED PROFESSIONAL ENGINEER
Rachel Liu
No. 74807
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA



DETOUR PLAN No. 4
FULL CLOSURE OF NB ROUTE 238 AT ROUTE 580 SEPARATION

DETOUR VIA

WB ROUTE 580;
OFF-RAMP TO STROBRIDGE Ave;
NB STANTON Ave;
WB CASTRO VALLEY Blvd;
ON-RAMP TO NB ROUTE 238

DETOUR PLAN No. 5
WB ROUTE 580 ON-RAMP FROM HARRISON ST+ OAKLAND Ave CLOSURE

TRAFFIC FROM HARRISON ST+

DETOUR VIA

SB HARRISON St+;
EB PEARL St+;
NB OAKLAND Ave;
ON-RAMP TO EB ROUTE 580; EB ROUTE 580;
OFF-RAMP TO GRAND Ave;
NB GRAND Ave;
WB LAKE PARK Ave; TO WB ROUTE 580 ON-RAMP

TRAFFIC FROM OAKLAND Ave

DETOUR VIA

NB OAKLAND Ave;
ON-RAMP TO EB ROUTE 580; EB ROUTE 580;
OFF-RAMP TO GRAND Ave;
NB GRAND Ave;
WB LAKE PARK Ave; TO WB ROUTE 580 ON-RAMP

CONSTRUCTION AREA SIGNS
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: LOURDES DAVID

CALCULATED/DESIGNED BY: RACHEL LIU

CHECKED BY: CLAUDIA FANG

REVISOR: RL

DATE REVISED: 3/2/15

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

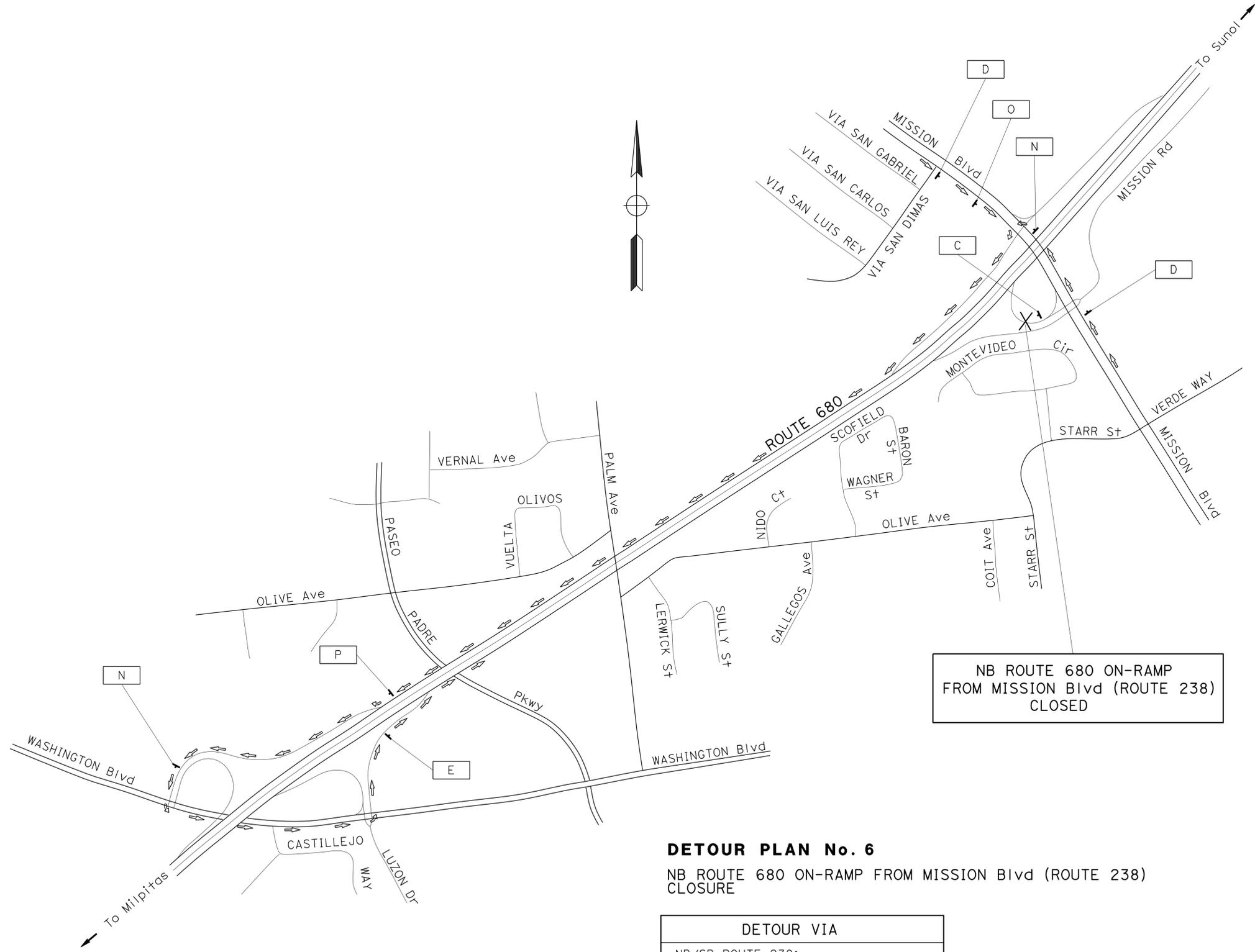
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: LOURDES DAVID
 RACHEL LTU
 REVISOR: CLAUDIA FANG
 RL
 DATE: 3/2/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	10	63

1/13/15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE

Rachel Liu
 No. 74807
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA

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DETOUR PLAN No. 6
 NB ROUTE 680 ON-RAMP FROM MISSION Blvd (ROUTE 238)
 CLOSURE

DETOUR VIA
 NB/SB ROUTE 238;
 ON-RAMP TO SB ROUTE 680;
 OFF-RAMP TO WASHINGTON Blvd;
 EB WASHINGTON Blvd;
 ON-RAMP TO NB ROUTE 680

CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

CS-7

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	11	63

1/13/15
REGISTERED CIVIL ENGINEER DATE

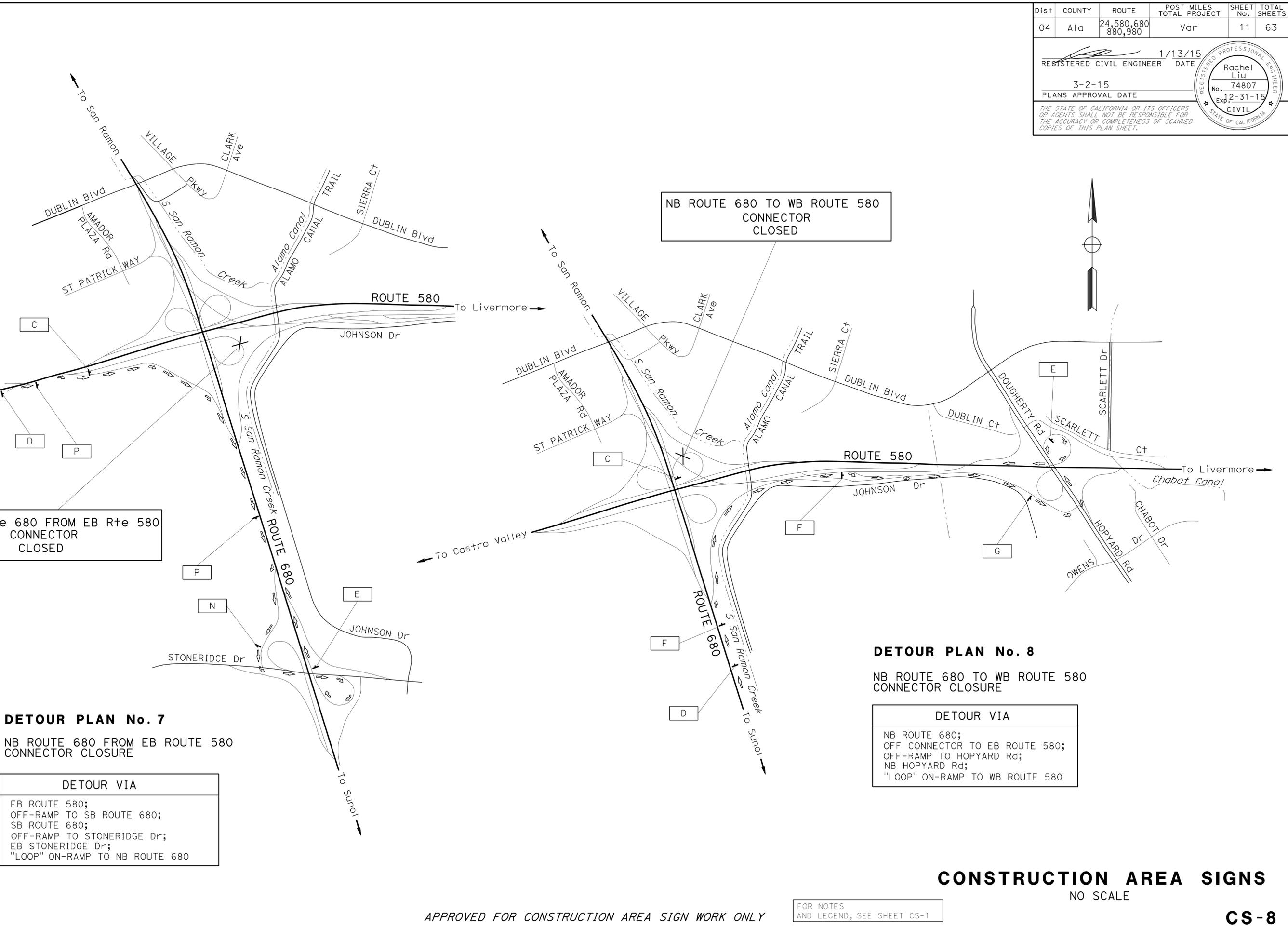
3-2-15
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Rachel Liu
No. 74807
Exp. 2-31-15
CIVIL
STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®

FUNCTIONAL SUPERVISOR	LOURDES DAVID
CALCULATED/DESIGNED BY	RACHEL LTU
CHECKED BY	CLAUDIA FANG
REVISOR	RL
DATE REVISION	3/2/15



DETOUR PLAN No. 7
NB ROUTE 680 FROM EB ROUTE 580
CONNECTOR CLOSURE

DETOUR VIA

EB ROUTE 580;
OFF-RAMP TO SB ROUTE 680;
SB ROUTE 680;
OFF-RAMP TO STONERIDGE Dr;
EB STONERIDGE Dr;
"LOOP" ON-RAMP TO NB ROUTE 680

DETOUR PLAN No. 8
NB ROUTE 680 TO WB ROUTE 580
CONNECTOR CLOSURE

DETOUR VIA

NB ROUTE 680;
OFF CONNECTOR TO EB ROUTE 580;
OFF-RAMP TO HOPYARD Rd;
NB HOPYARD Rd;
"LOOP" ON-RAMP TO WB ROUTE 580

CONSTRUCTION AREA SIGNS
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	12	63

1/13/15
REGISTERED CIVIL ENGINEER DATE

3-2-15
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Rachel Liu
No. 74807
Exp. 2-31-15
CIVIL
STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC

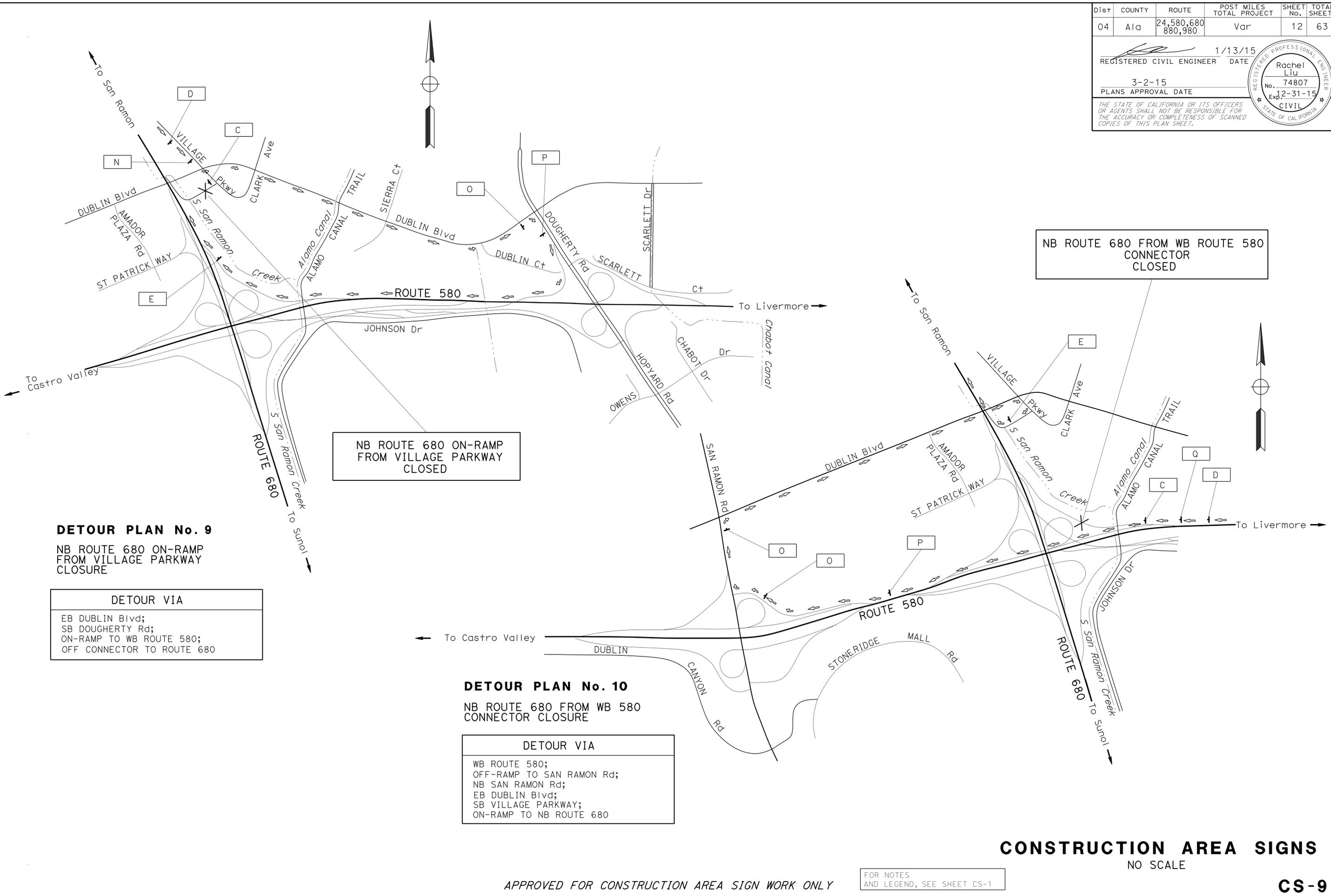
FUNCTIONAL SUPERVISOR
LOURDES DAVID

CALCULATED/DESIGNED BY
CHECKED BY

RACHEL LTU
CLAUDIA FANG

REVISED BY
DATE REVISED

RL
3/2/15



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

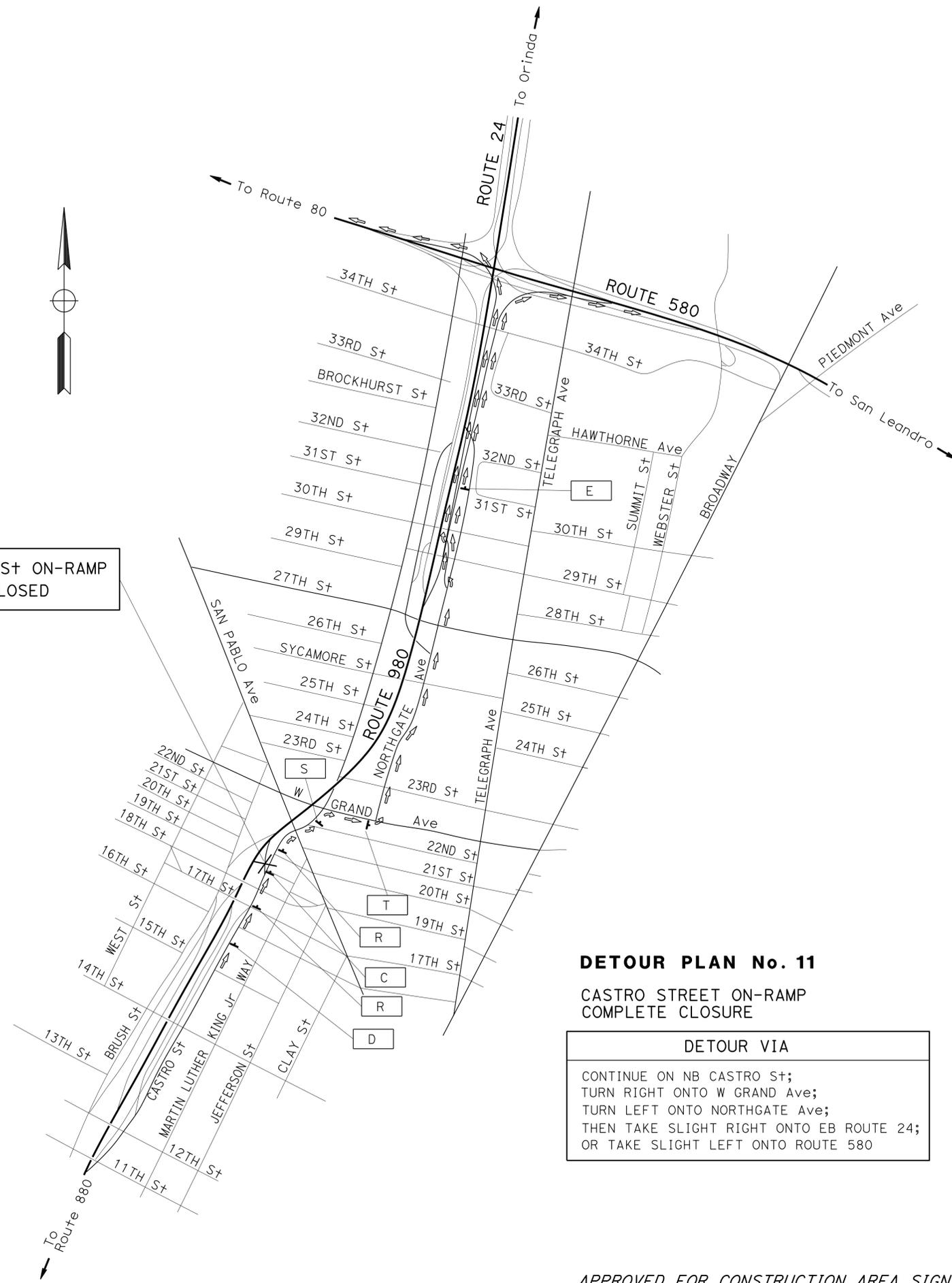
FOR NOTES AND LEGEND, SEE SHEET CS-1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	13	63

REGISTERED CIVIL ENGINEER DATE: 1/13/15
 3-2-15
 PLANS APPROVAL DATE

Rachel Liu
 No. 74807
 Exp. 2-31-15
 CIVIL

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**CASTRO ST ON-RAMP
 CLOSED**

DETOUR PLAN No. 11
 CASTRO STREET ON-RAMP
 COMPLETE CLOSURE

DETOUR VIA

CONTINUE ON NB CASTRO ST;
 TURN RIGHT ONTO W GRAND Ave;
 TURN LEFT ONTO NORTHGATE Ave;
 THEN TAKE SLIGHT RIGHT ONTO EB ROUTE 24;
 OR TAKE SLIGHT LEFT ONTO ROUTE 580

CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

CS-10

LAST REVISION DATE PLOTTED => 13-MAR-2015 03-02-15 TIME PLOTTED => 13:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	14	63

1/13/15
REGISTERED CIVIL ENGINEER DATE

3-2-15
PLANS APPROVAL DATE

Rachel Liu
No. 74807
Exp. 2-31-15
CIVIL

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1		ROAD WORK AHEAD	48" x 48"	1 - 4" x 6"	8
A1	W20-1		ROAD WORK AHEAD	36" x 36"	1 - 4" x 6"	7
B	G20-2		END ROAD WORK	48" x 24"	1 - 4" x 4"	8
B1	G20-2		END ROAD WORK	36" x 36"	1 - 4" x 4"	7
C		SC6-4(CA)	RAMP CLOSED	48" x 60"	1 - 6" x 6"	11
D	W20-2		DETOUR AHEAD	36" x 36"	1 - 4" x 6"	13
E	M4-8a		END DETOUR	24" x 18"	1 - 4" x 4"	11
F	M4-8		DETOUR	24" x 12"	1 - 4" x 6"	5
		G27-2(580)(CA)	ROUTE 580 SHIELD	21" x 18"		
	M3-4		WEST	24" x 12"		
G	M6-2(↗)		DIAGONAL ARROW	21" x 15"	1 - 4" x 6"	12
	M4-8		DETOUR	24" x 12"		
		G27-2(580)(CA)	ROUTE 580 SHIELD	21" x 18"		
H	M3-4		WEST	24" x 12"	1 - 4" x 6"	5
	M6-3(↑)		UP ARROW	21" x 15"		
	M4-8		DETOUR	24" x 12"		
I		G27-2(580)(CA)	ROUTE 580 SHIELD	21" x 18"	1 - 4" x 6"	1
	M3-4		WEST	24" x 12"		
	M6-2(→)		RIGHT ARROW	21" x 15"		
J	SPECIAL SIGN No.1		NORTH 238 CLOSED	42" x 42"	1 - 4" x 6"	1
K	M4-8		DETOUR	24" x 12"	1 - 4" x 6"	1
		G27-2(580)(CA)	ROUTE 238 SHIELD	21" x 18"		
	M3-1		NORTH	24" x 12"		
L	M6-2(↘)		DIAGONAL ARROW	21" x 15"	1 - 4" x 6"	1
	M4-8		DETOUR	24" x 12"		
		G27-2(580)(CA)	ROUTE 238 SHIELD	21" x 18"		
L	M3-1		NORTH	24" x 12"	1 - 4" x 6"	1
	M6-2(→)		RIGHT ARROW	21" x 15"		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FUNCTIONAL SUPERVISOR: LOURDES DAVID
RACHEL LIU
CLAUDIA FANG

REVISOR: RACHAL LIU
DATE: 3/2/15

CALCULATED/DESIGNED BY: RACHAL LIU
CHECKED BY: CLAUDIA FANG

CONSTRUCTION AREA SIGNS NO SCALE

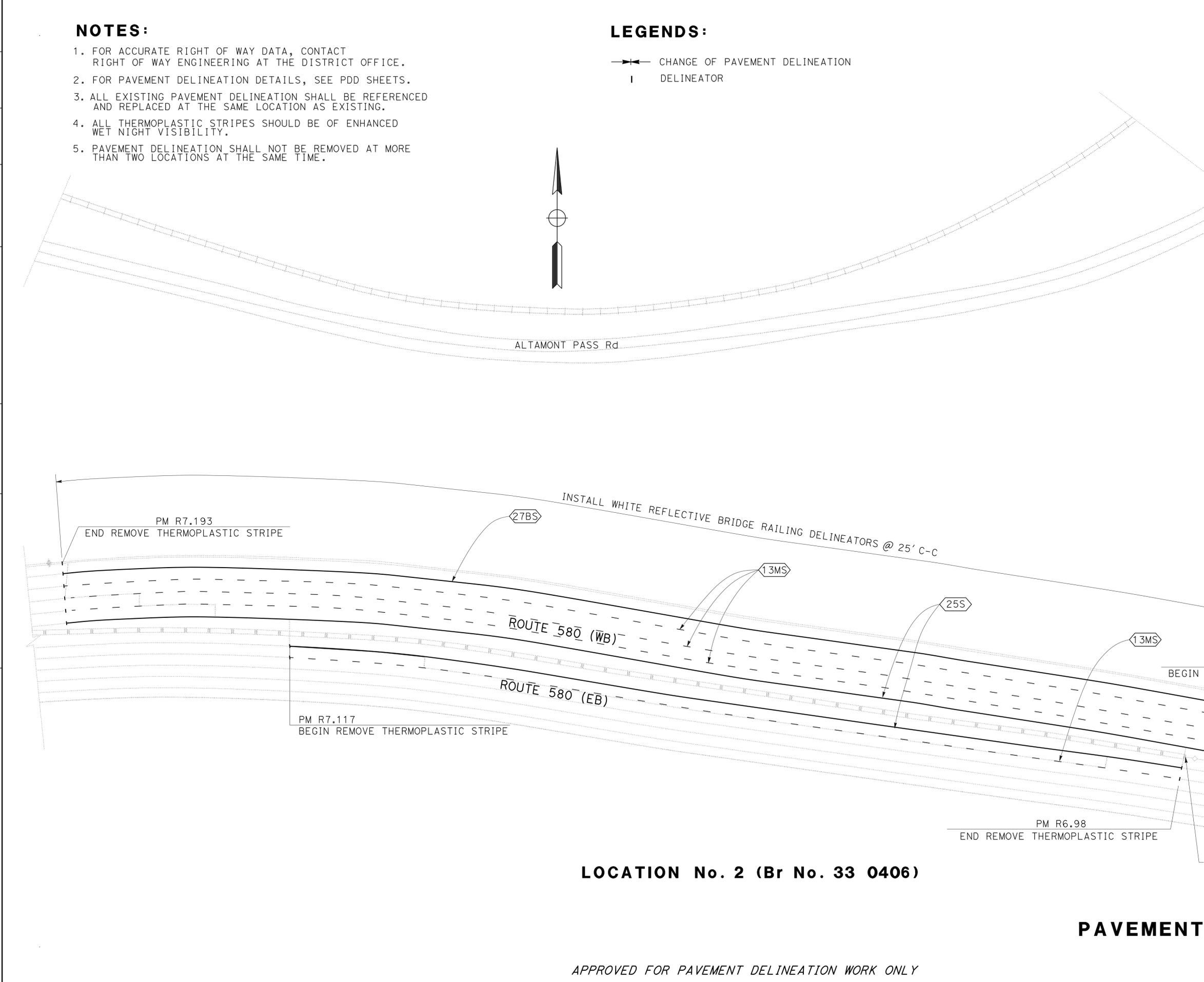
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

CS-11

LAST REVISION DATE PLOTTED => 13-MAR-2015 03-02-15 TIME PLOTTED => 13:04

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: EMILY TANG
 TRAFFIC



NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR PAVEMENT DELINEATION DETAILS, SEE PDD SHEETS.
3. ALL EXISTING PAVEMENT DELINEATION SHALL BE REFERENCED AND REPLACED AT THE SAME LOCATION AS EXISTING.
4. ALL THERMOPLASTIC STRIPES SHOULD BE OF ENHANCED WET NIGHT VISIBILITY.
5. PAVEMENT DELINEATION SHALL NOT BE REMOVED AT MORE THAN TWO LOCATIONS AT THE SAME TIME.

LEGENDS:

- +— CHANGE OF PAVEMENT DELINEATION
- | DELINEATOR



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	16	63

David C. Chen 1/12/15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 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.

LOCATION No. 2 (Br No. 33 0406)

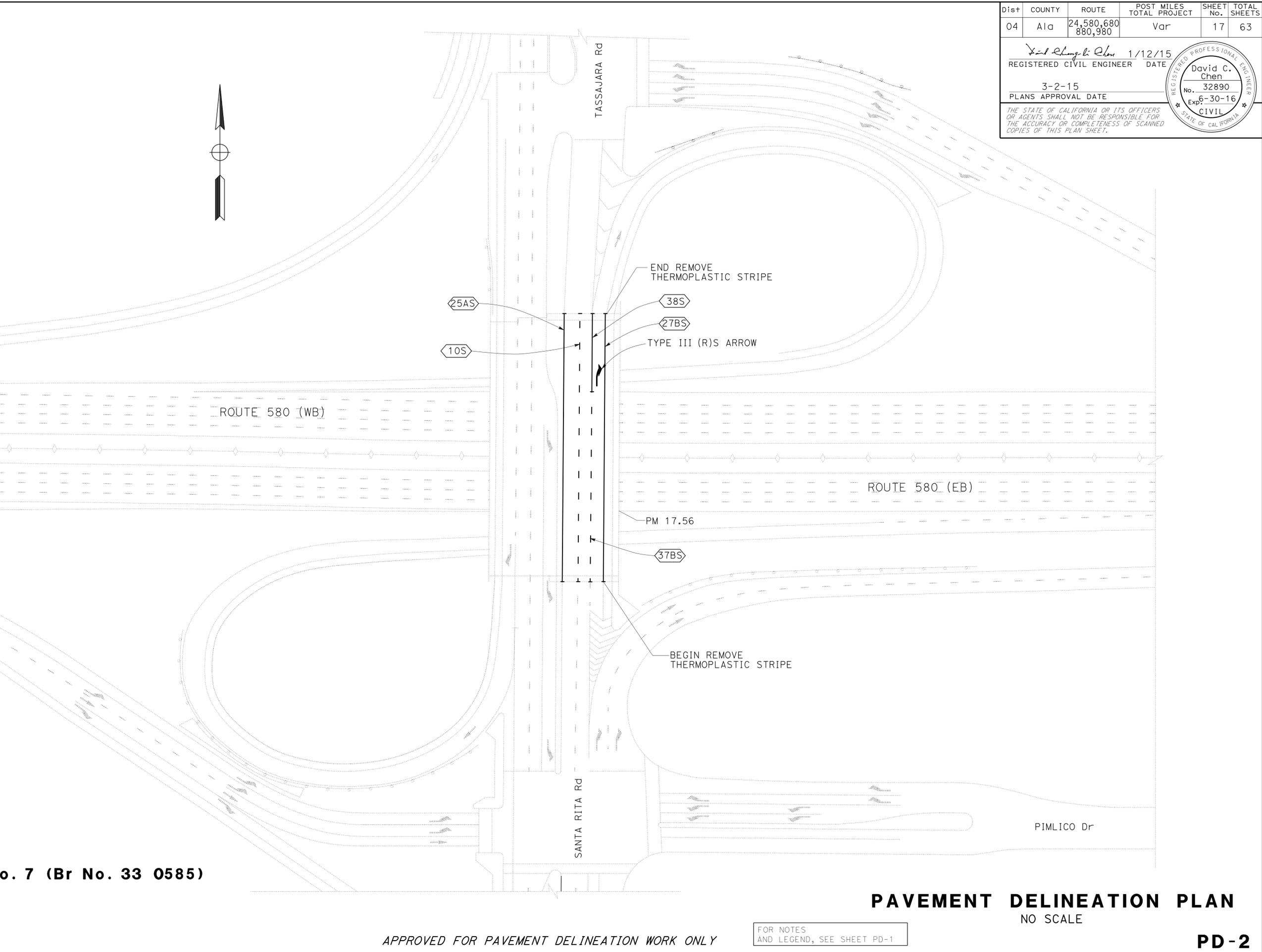
PAVEMENT DELINEATION PLAN
 NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC

FUNCTIONAL SUPERVISOR: EMILY TANG
 CALCULATED/DESIGNED BY: MUSTAQUR RAHMAN
 CHECKED BY: DAVID C. CHEN
 MR: 3/2/15
 REVISOR: MUSTAQUR RAHMAN
 DATE: 3/2/15



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	17	63

David C. Chen 1/12/15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE

David C. Chen
 No. 32890
 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.

PAVEMENT DELINEATION PLAN
 NO SCALE

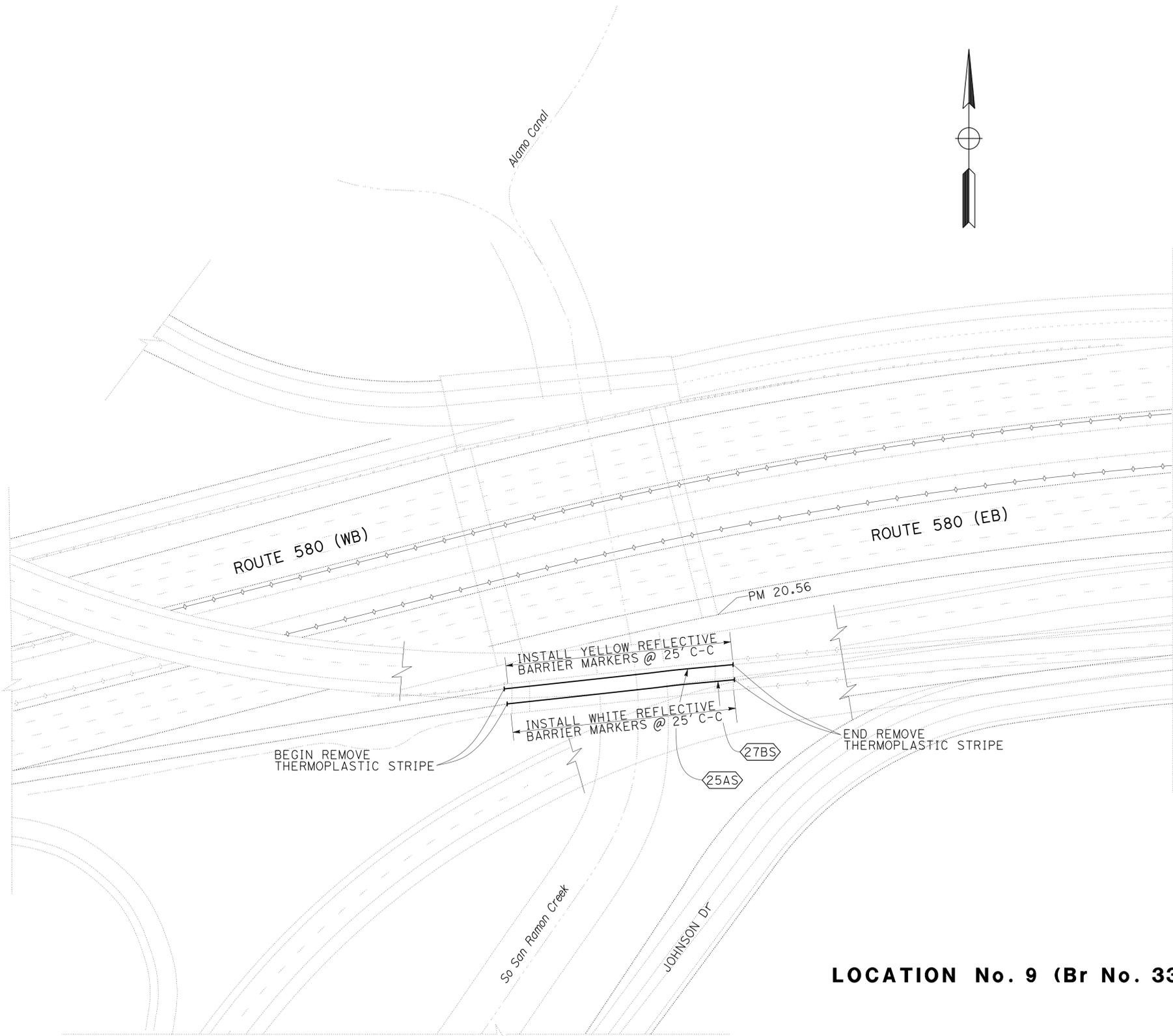
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: EMILY TANG
 CALCULATED/DESIGNED BY: MUSTAQUR RAHMAN
 CHECKED BY: DAVID C. CHEN
 REVISED BY: MR
 DATE REVISED: 3/2/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	18	63

David C. Chen 1/12/15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE

David C. Chen
 No. 32890
 Exp. 6-30-16
 CIVIL

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LOCATION No. 9 (Br No. 33 0642K)

PAVEMENT DELINEATION PLAN
 NO SCALE

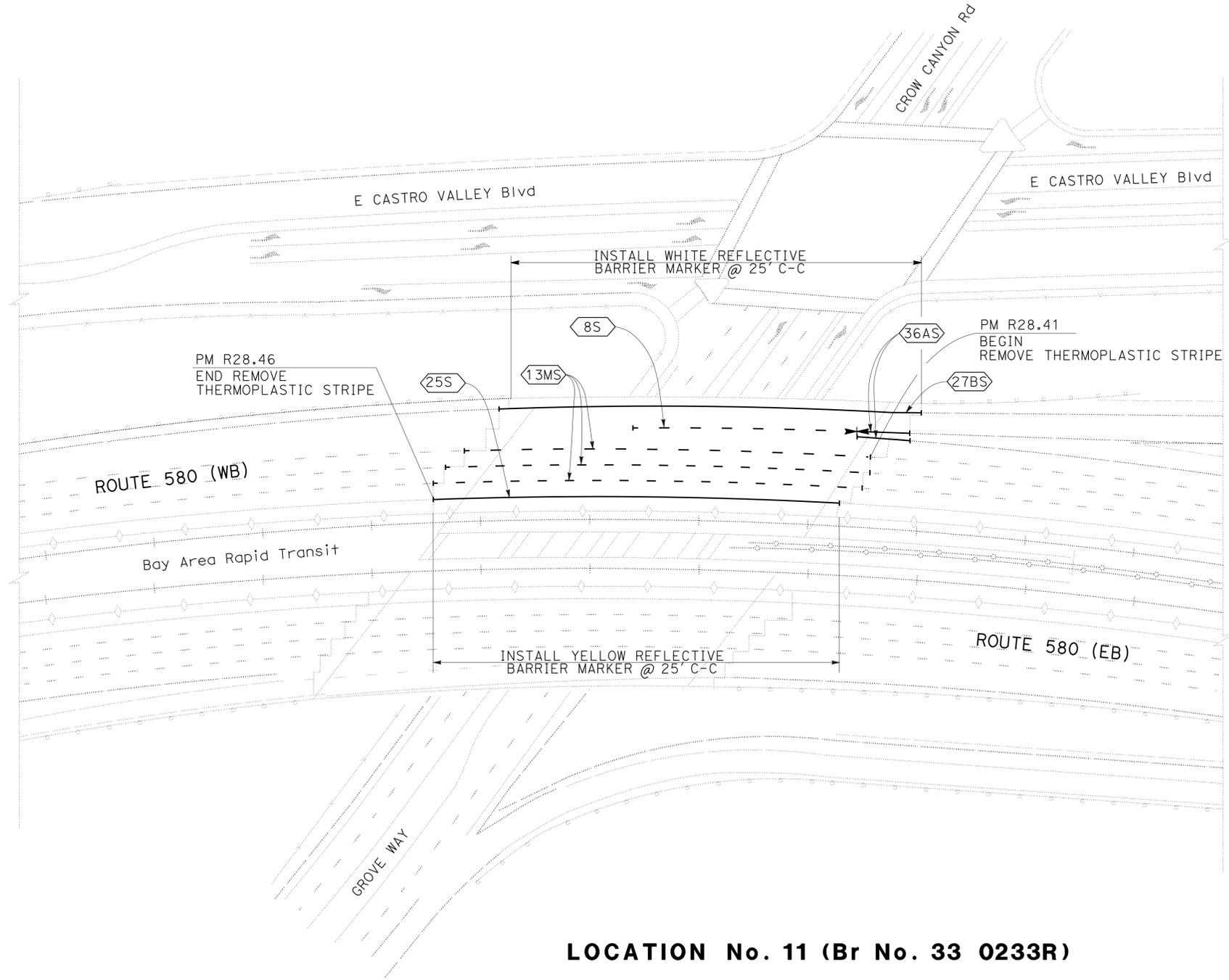
APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET PD-1

PD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	TRAFFIC	FUNCTIONAL SUPERVISOR	EMILY TANG
		CALCULATED/DESIGNED BY	CHECKED BY
MUSTAQUR RAHMAN	DAVID C. CHEN	REVISOR	DATE
MR	3/2/15		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	19	63
<i>David C. Chen</i> 1/12/15 REGISTERED CIVIL ENGINEER DATE					
3-02-05				PLANS APPROVAL DATE	
<small>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.</small>					



LOCATION No. 11 (Br No. 33 0233R)

PAVEMENT DELINEATION PLAN
NO SCALE

PD-4

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET PD-1

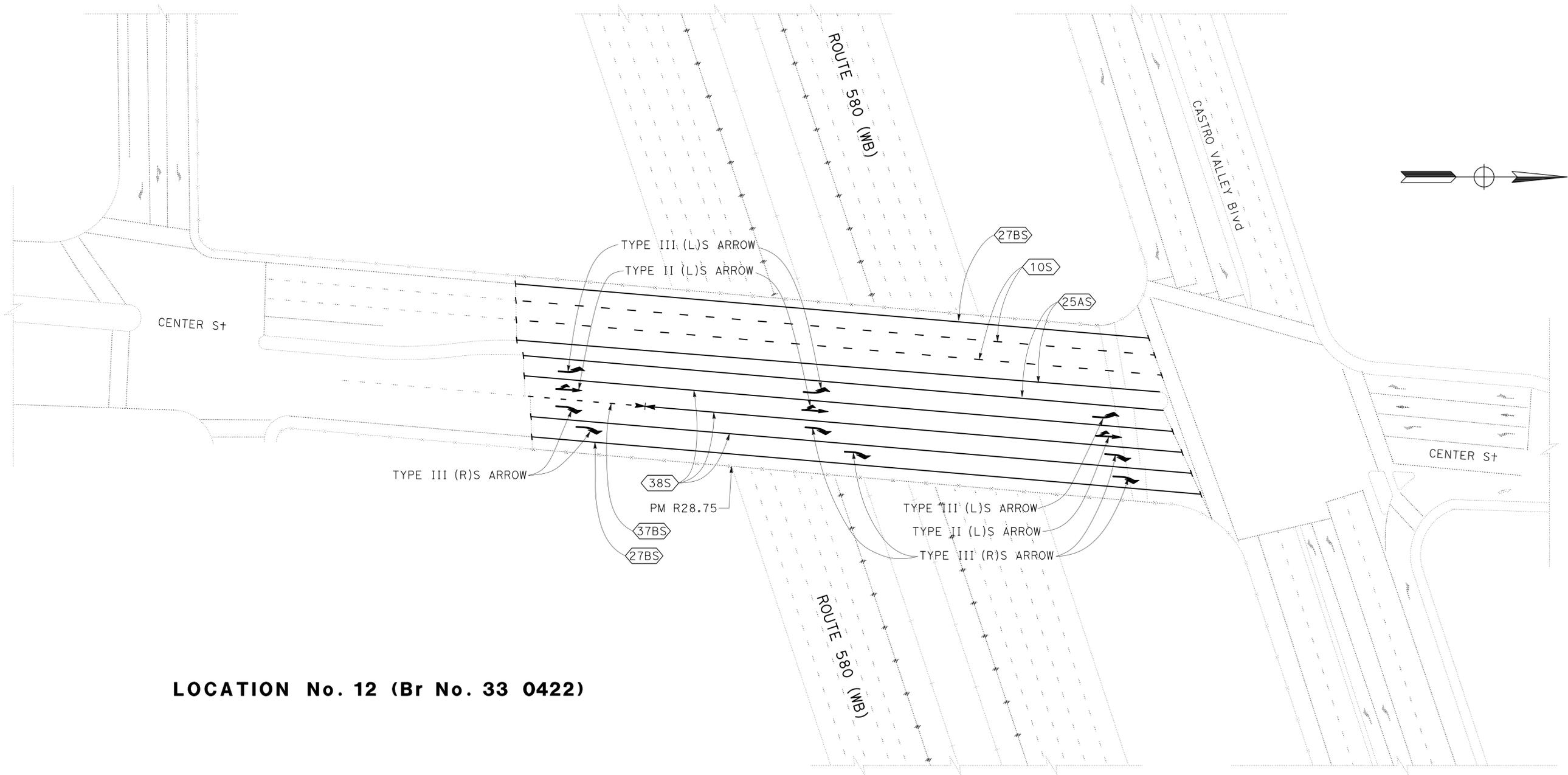
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: EMILY TANG
 CALCULATED/DESIGNED BY: MUSTAQUR RAHMAN
 CHECKED BY: DAVID C. CHEN
 MR: 3/2/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	20	63

David C. Chen 1/12/15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE

David C. Chen
 No. 32890
 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.



LOCATION No. 12 (Br No. 33 0422)

PAVEMENT DELINEATION PLAN
 NO SCALE

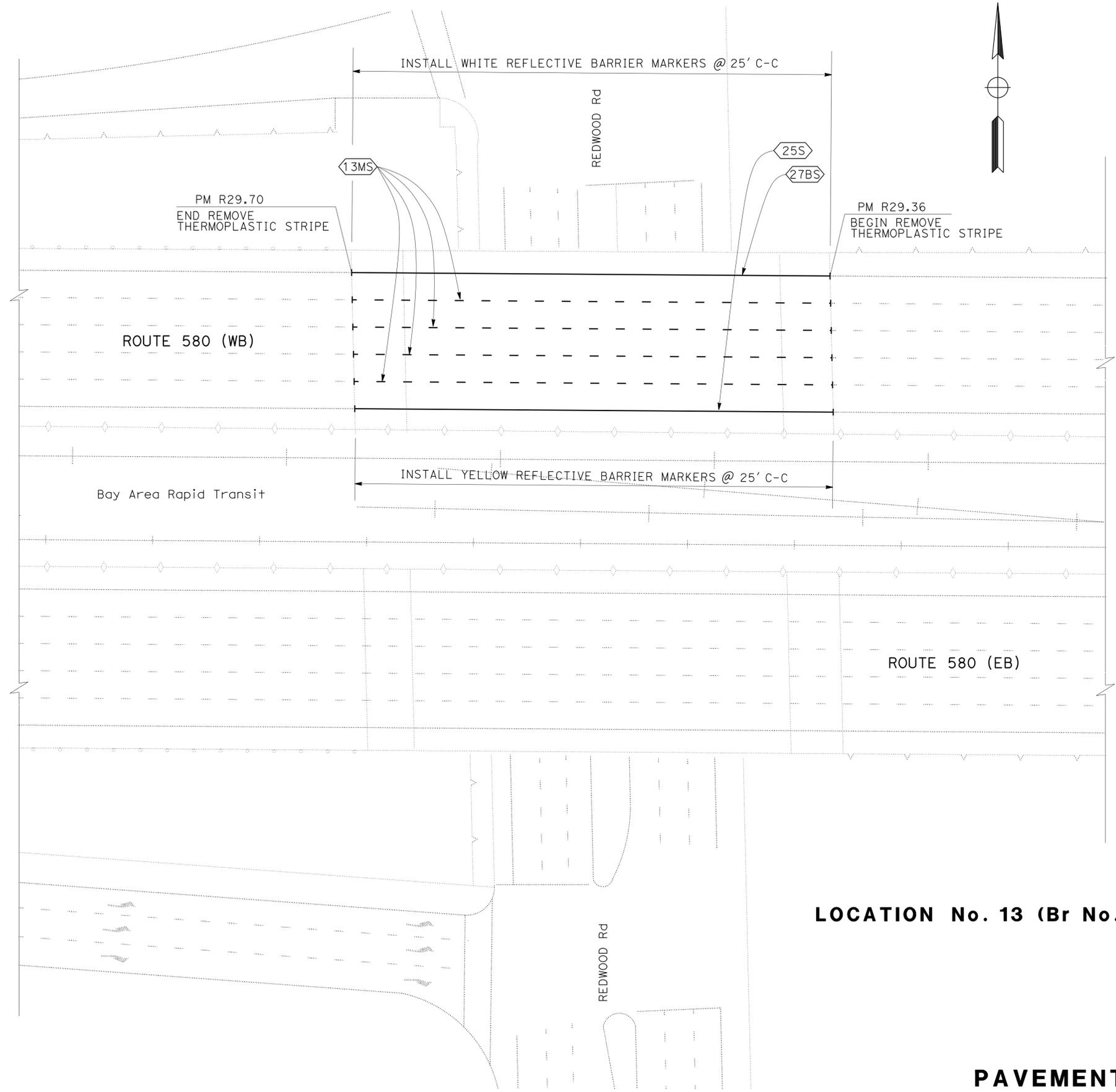
APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET PD-1

PD-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	TRAFFIC	FUNCTIONAL SUPERVISOR	EMILY TANG
		CALCULATED/DESIGNED BY	CHECKED BY
MUSTAOUR RAHMAN	DAVID C. CHEN	REVISOR	DATE
MR	3/2/15		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	21	63
<i>David C. Chen</i> 1/12/15 REGISTERED CIVIL ENGINEER DATE					
3-2-15				PLANS APPROVAL DATE	
<small>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.</small>					



LOCATION No. 13 (Br No. 33 0193R)

PAVEMENT DELINEATION PLAN
NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET PD-1

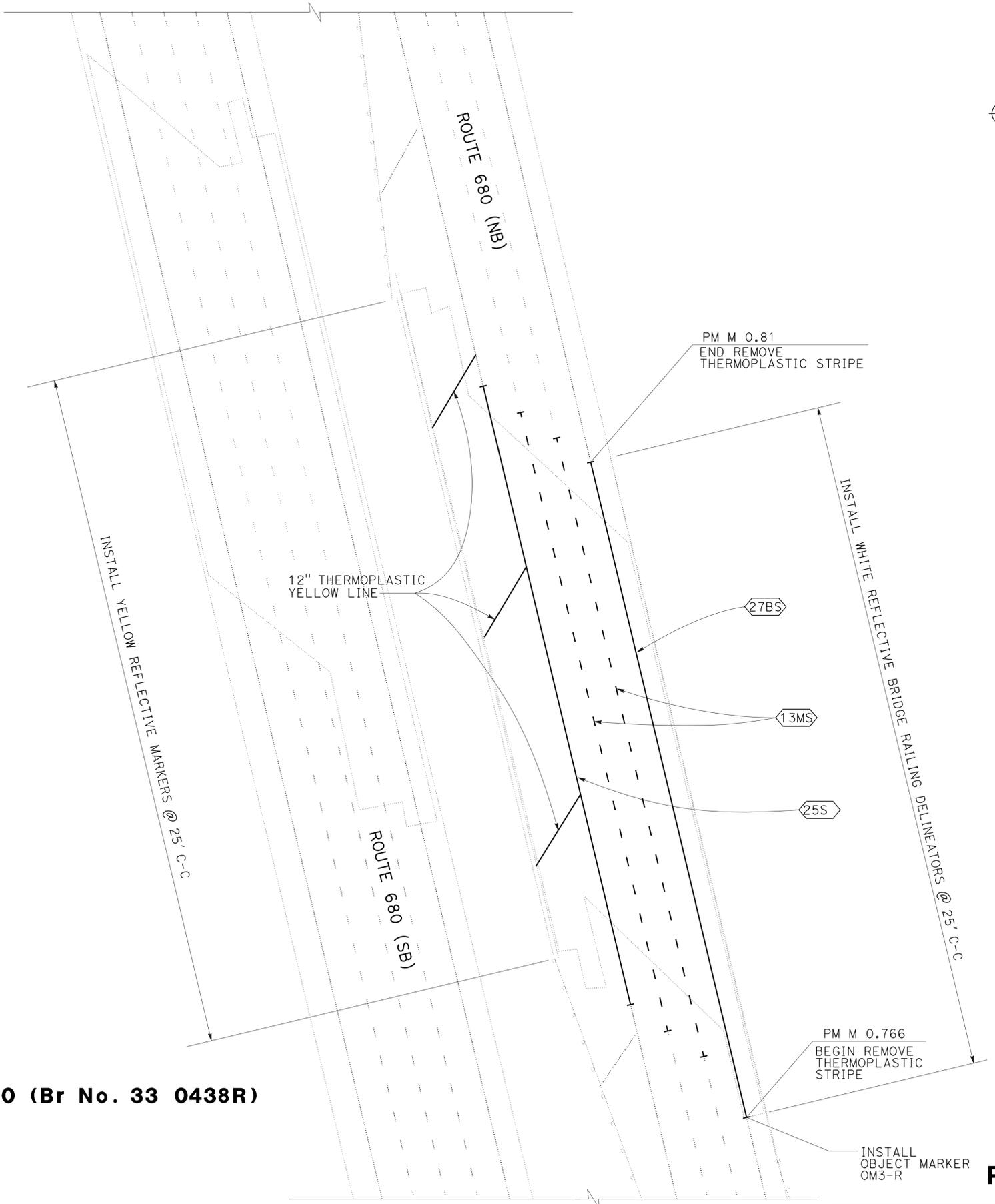
PD-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR		CALCULATED/DESIGNED BY	REVISOR	MR
	EMILY TANG				
TRAFFIC		CHECKED BY			
		DAVID C. CHEN			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	22	63
<i>David C. Chen</i> 1/12/15 REGISTERED CIVIL ENGINEER DATE			David C. Chen No. 32890 Exp. 6-30-16 CIVIL		
3-2-15			PLANS APPROVAL DATE		
<small>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.</small>					



LOCATION No. 20 (Br No. 33 0438R)



APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET PD-1

PAVEMENT DELINEATION PLAN
NO SCALE

PD-7



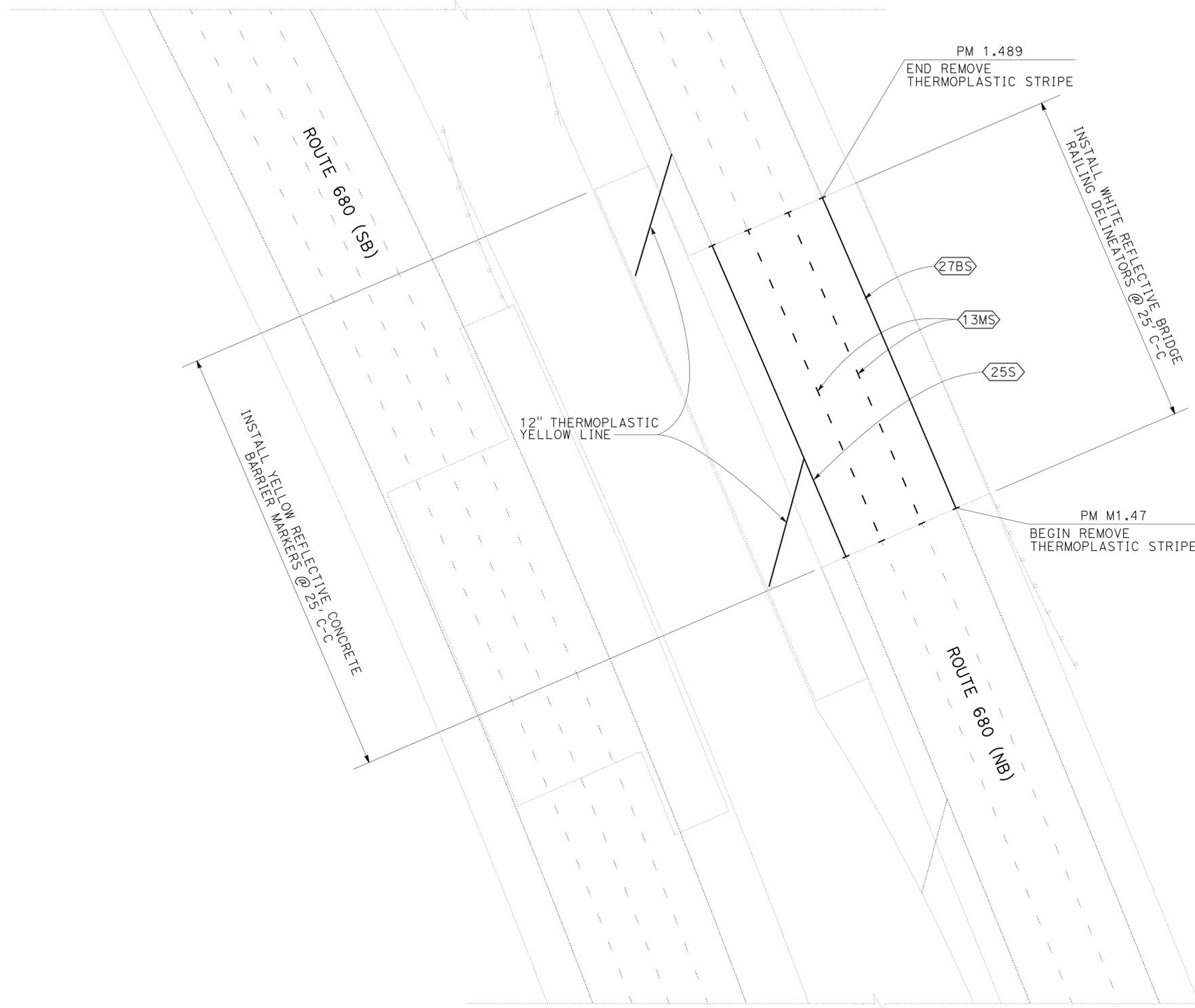
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	MR
TRAFFIC	CHECKED BY	DAVID C. CHEN	DATE REVISED	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	23	63

David C. Chen 1/12/15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 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.

David C. Chen
 No. 32890
 Exp. 6-30-16
 CIVIL



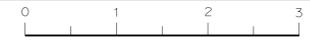
LOCATION No. 21 (Br No. 33 0439R)

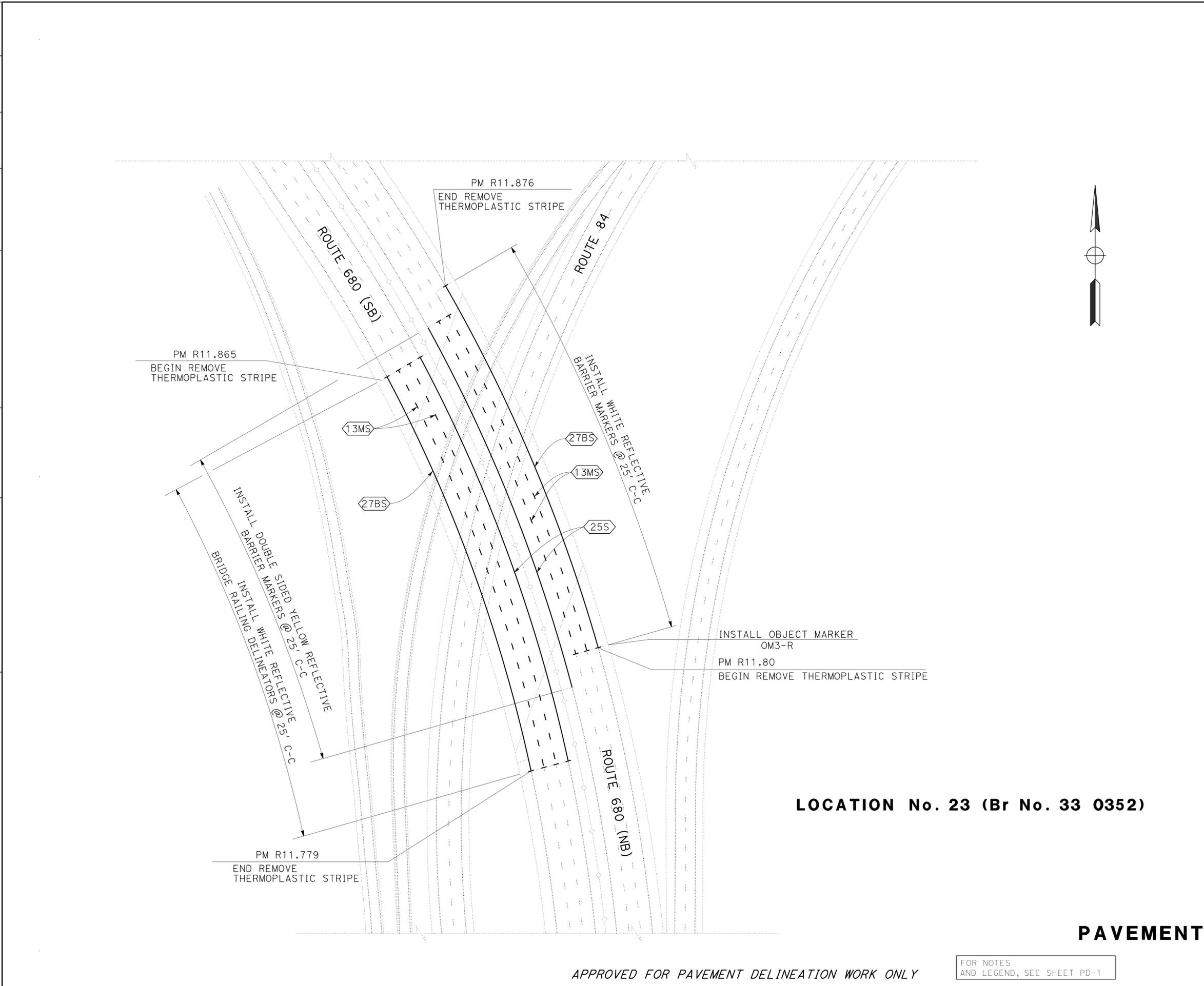
PAVEMENT DELINEATION PLAN
NO SCALE

PD-8

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET PD-1





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	24	63

David C. Chen 1/12/15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 David C. Chen
 No. 32890
 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.

LOCATION No. 23 (Br No. 33 0352)

PAVEMENT DELINEATION PLAN
 NO SCALE

PD-9

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

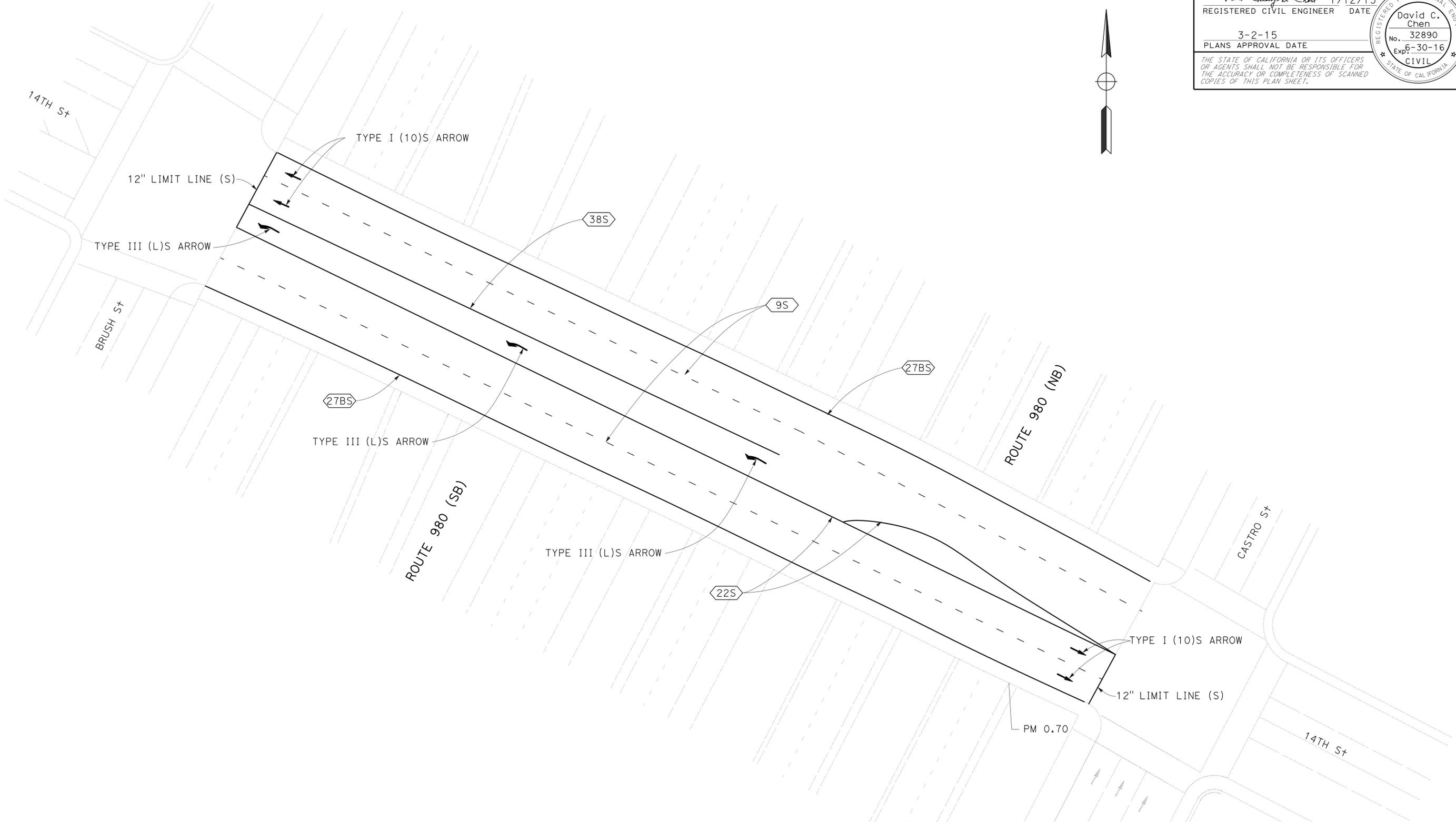
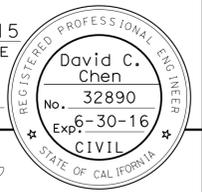
FOR NOTES AND LEGEND, SEE SHEET PD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: EMILY TANG
 TRAFFIC

MR: 3/2/15
 REVISOR: MUSTAOUR RAHMAN
 CHECKED BY: DAVID C. CHEN
 DESIGNED BY: EMILY TANG

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	25	63

David C. Chen 1/12/15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 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.



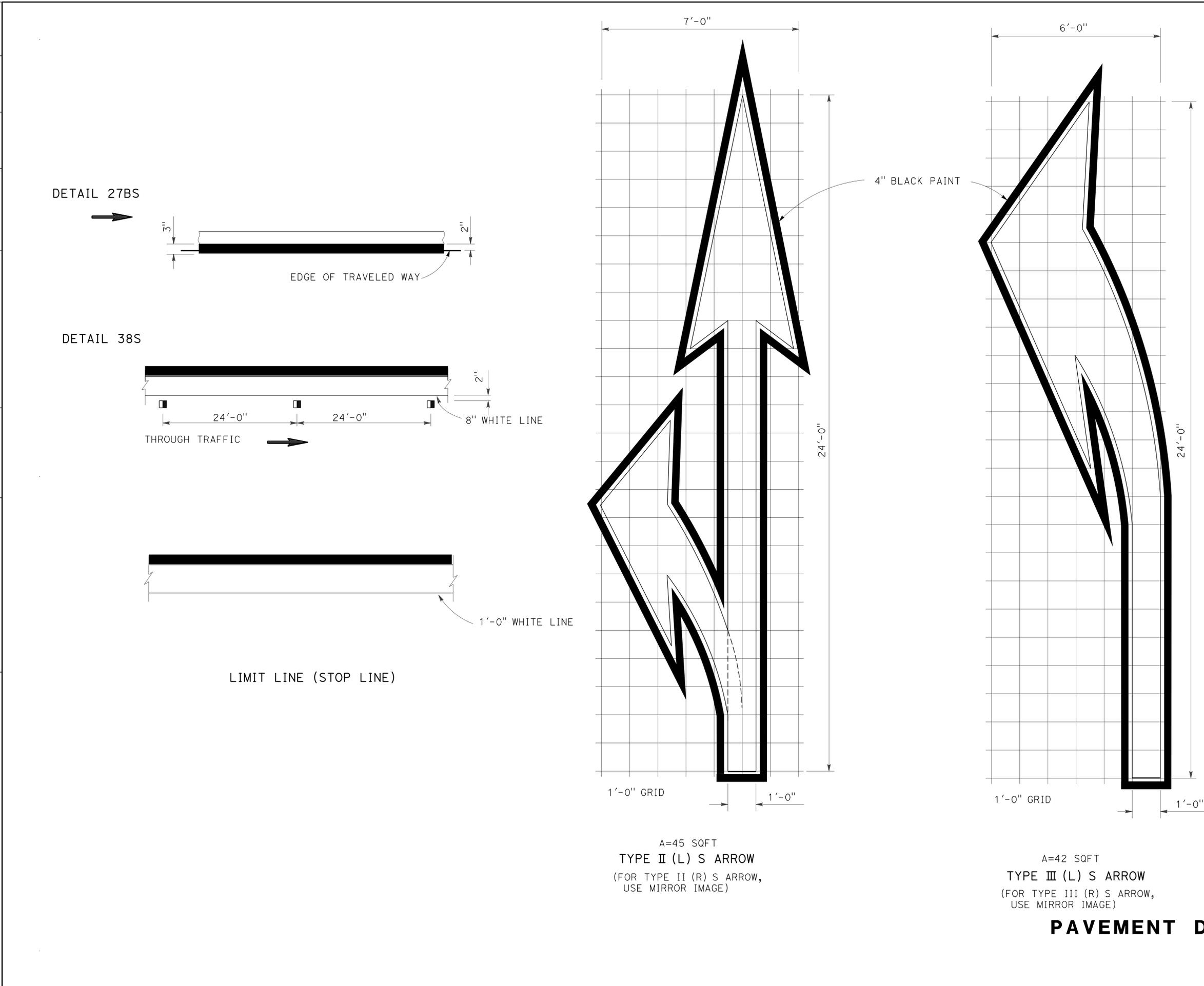
LOCATION No. 30 (Br No. 33 0478)

PAVEMENT DELINEATION PLAN
 NO SCALE

PD-10

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET PD-1

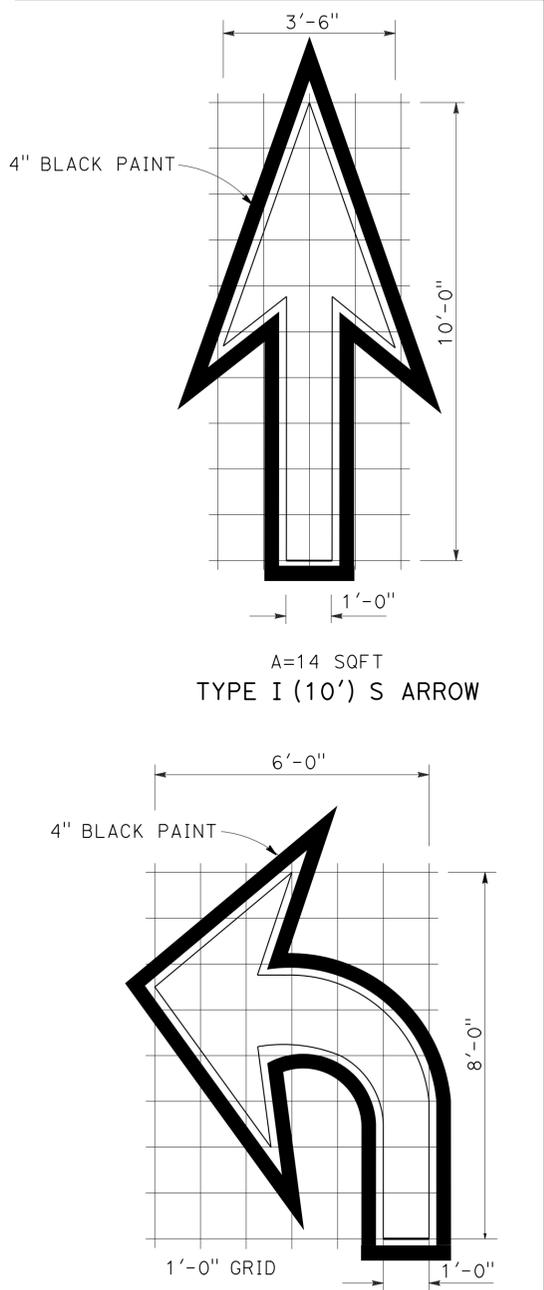


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	27	63

David C. Chen 1/12/15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 David C. Chen
 No. 32890
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA

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A=14 SQFT
 TYPE I (10') S ARROW
 A=15 SQFT
 TYPE IV (L) S ARROW
 (FOR TYPE IV (R) S ARROW,
 USE MIRROR IMAGE)

PAVEMENT DELINEATION DETAILS
 NO SCALE
PDD-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	28	62

Rahman 2/4/15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE
 Md Mustaqur Rahman
 No. 75824
 Exp. 6-30-16
 CIVIL
 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.

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

BRIDGE No.	STRUCTURE NAME	ROUTE	POST MILE	DIRECTION	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)						TWO-COMPONENT PAINT TRAFFIC STRIPE			PAVEMENT MARKER			REMOVE THERMOPLASTIC TRAFFIC STRIPE						REMOVE THERMOPLASTIC PAVEMENT MARKING		REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER				
						4"			8"			4"		8"	NON-REFLECTIVE		RETRO REFLECTIVE	THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)		4"			8"			REMOVE THERMOPLASTIC PAVEMENT MARKING		REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER		
						YELLOW	WHITE	WHITE (BROKEN 17-7)	WHITE (BROKEN 34-14)	WHITE	WHITE (BROKEN 12-3)	BLACK	BLACK (BROKEN)	BLACK (BROKEN)	TYPE A	TYPE G	TYPE H	YELLOW	WHITE	YELLOW	WHITE	WHITE (BROKEN 17-7)	WHITE (BROKEN 34-14)	WHITE	WHITE (BROKEN 12-3)	YELLOW	WHITE	BLACK	REMOVE PAVEMENT MARKER		
LF						EA			SQFT			LF						SQFT		LF	EA										
33 0406	AL TAMONT SIDEHILL VIADUCT	580	R6.92	WB	13MS			4500				4500		387	97						4500						484				
					25S	1500				1500								1500												32	
				27BS		1500															1500										
				EB	13MS			1000				1000		91	23									1000							114
25S	1000							1000																			22				
33 0585	TASSAJARA / SANTA RITA Rd OC	580	17.96	NB	25AS	345						345				15					345							15			
					10S					345			49	8																57	
					27BS		345				345													345							
					37BS					230		230			17																17
					38S			80		80					4								80								4
33 0642K	ALAMO CANAL	580	20.56	EB	1 No. TYPE III(R)S ARROW						60				42								42								
33 0233R	CROW CANYON Rd UC	580	R28.41	WB	25AS	180						180				9					180							9			
					27BS		180				180												180								
					25S	320				320														320							8
					13MS			960		960			92	23												960					115
					27BS		320			320															320						
33 0422	CENTER St OC	580	R28.75	NB	8S		170					170																	3		
					36AS				90		90				3																
					25AS	402				402														402							18
					37BS			150			150				12												150				12
					27BS		424			424															424						
					38S			1110		1110					49												1110				49
					3 Nos. TYPE III(L)S ARROW					180																		126			180
					3 Nos. TYPE II(L)S ARROW					330																			135		330
6 Nos. TYPE III(R)S ARROW					360																			252		360					
33 0193R	REDWOOD Rd UC	580	R29.37	WB	25AS	417						417				18					417							18			
					10S					410			57	10																67	
					27BS		410			410														410							
33 0193R	REDWOOD Rd UC	580	R29.37	WB	25S	201						201				5					201							5			
					13MS			804			804															804				104	
					27BS		201			201																					
SHEET TOTAL						4365	3380	170	7264	1280	380	9955	8189	380	759	267	127			555	4365	3380	170	7264	1280	380		555	2956	1153	

PAVEMENT DELINEATION QUANTITIES PDQ-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	30	62

Rahman 2/4/15
REGISTERED CIVIL ENGINEER DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Md Mustaqur Rahman
No. 75824
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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BRIDGE RAILING DELINEATORS AND OBJECT MARKERS

LOCATION				DELINEATOR			OBJECT MARKER
BRIDGE No.	STRUCTURE NAME	ROUTE	DIRECTION	CLASS 1 (BRIDGE MOUNTED)			TYPE P (CA) (OM-3R)
				TYPE F	TYPE G	TYPE I	
33 0406	ALTAMONT SIDEHILL VIADUCT	580	WB	61			1
			MEDIAN			15	
33 0642K	ALAMO CANAL	580	EB	8	8		
33 0233R	CROW CANYON Rd UC	580	WB	14	14		
33 0193R	REDWOOD Rd UC	580	WB	9	10		
33 0438R	SOUTH D.W.R. UC	680	NB	11	12		1
33 0439R	NORTH D.W.R. UC	680	NB	6	6		
			SB	15		15	1
33 0352	SCOTTS CORNER SEPARATION 680/84	580	NB	15			1
TOTAL				139	50	30	3
GRAND TOTAL				219			3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR
RONNIE CHUA

CALCULATED/DESIGNED BY
CHECKED BY

MUSTAQUR RAHMAN
TEREK NAWARD

REVISOR BY
DATE REVISED

MR
3/2/15

**PAVEMENT DELINEATION
QUANTITIES PDQ-3**

LAST REVISION | DATE PLOTTED => 13-MAR-2015
03-02-15 | TIME PLOTTED => 13:04

	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	
MtI	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	
Obir	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 MtI	PERMEABLE MATERIAL	

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, 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	
ℒ	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	
TeI	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	W
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
WWLOL	WINGWALL LAYOUT LINE	X
X Sec	CROSS SECTION	
Xing	CROSSING	Y
Yr	YEAR	
Yrs	YEARS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	31	63

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 3-2-15

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
∅	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

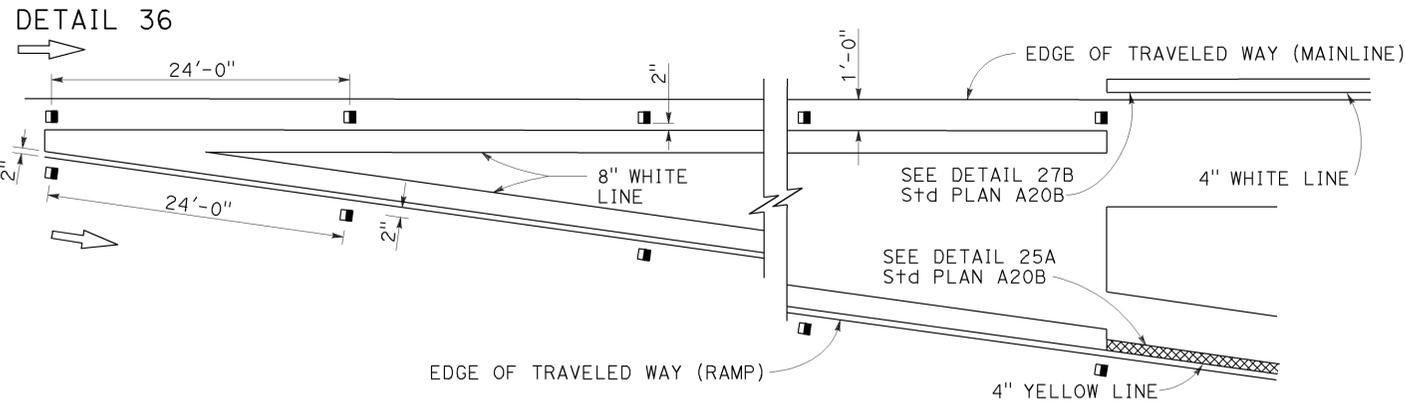
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

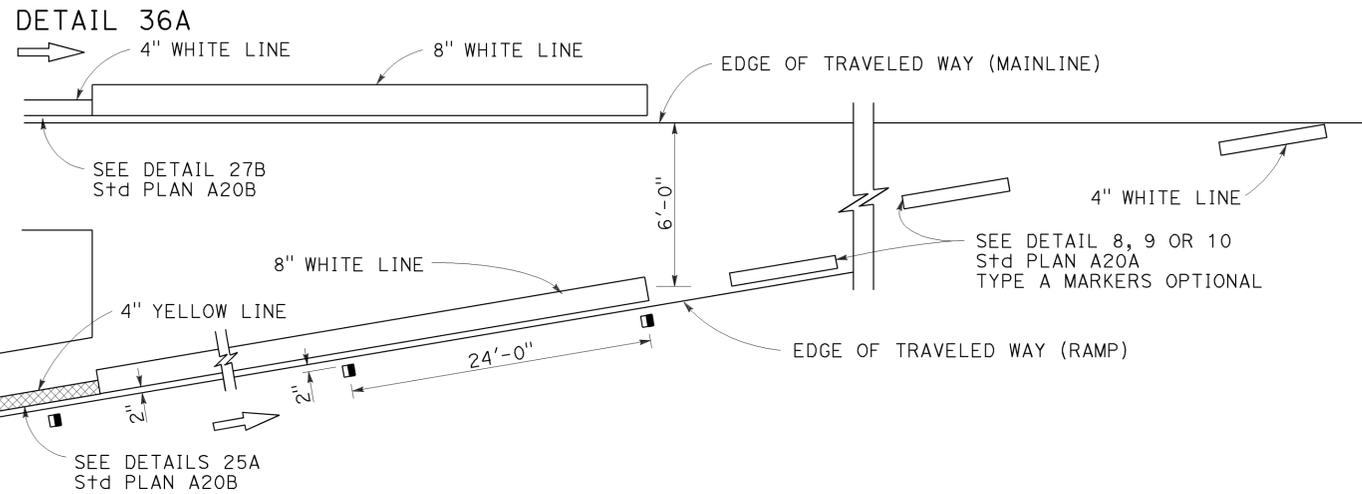
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

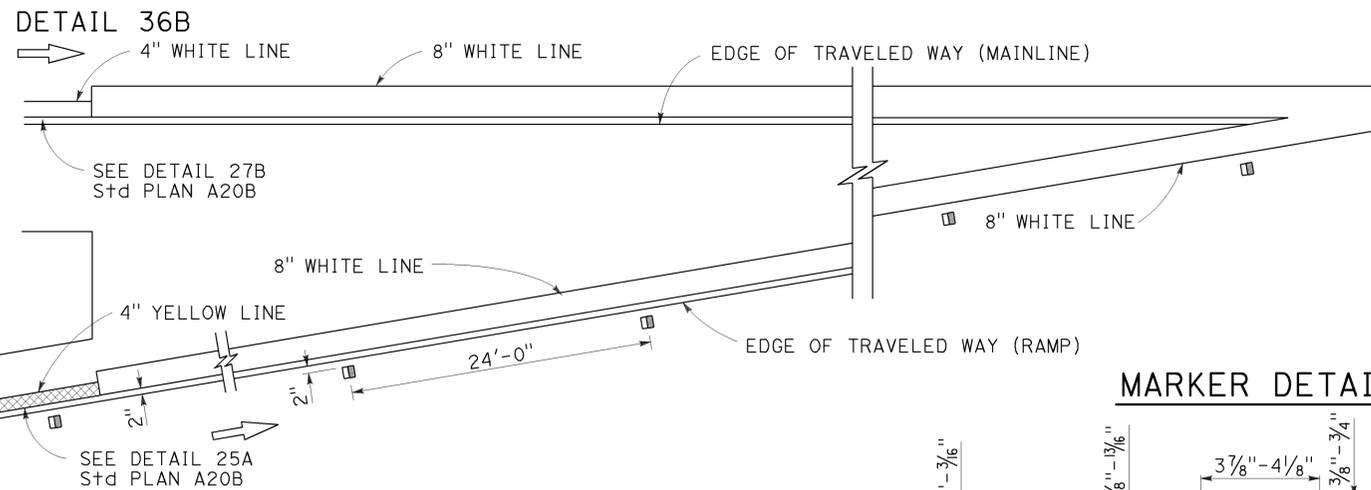
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

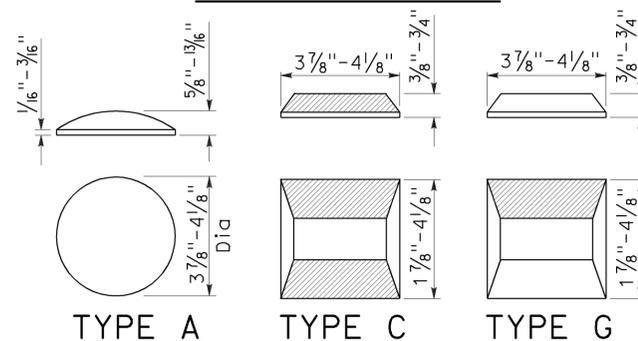


MARKER DETAILS

LEGEND:

MARKERS

- TYPE A WHITE NON-REFLECTIVE
- ◻ TYPE C RED-CLEAR RETROREFLECTIVE
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE



RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	32	63

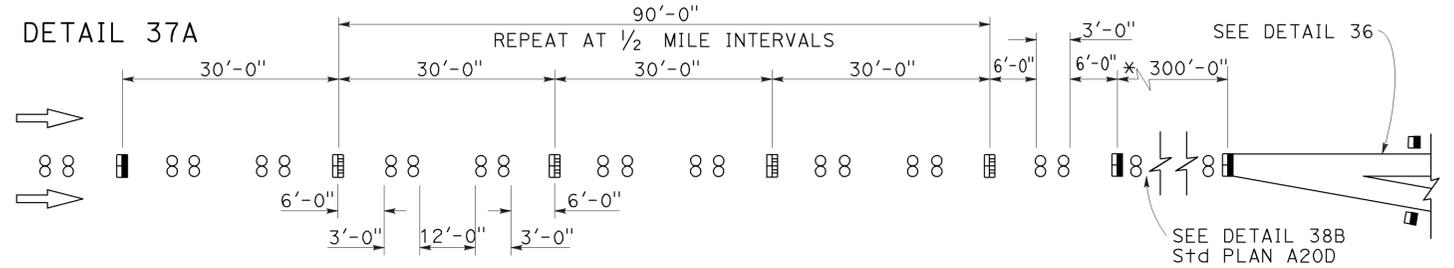
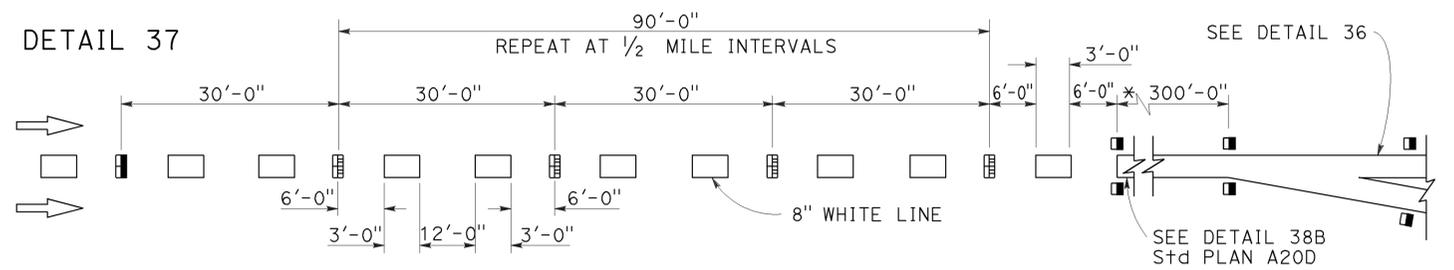
REGISTERED CIVIL ENGINEER
 Roberta L. McLaughlin
 No. C40375
 Exp. 3-31-15
 CIVIL
 STATE OF CALIFORNIA

July 19, 2013
 PLANS APPROVAL DATE

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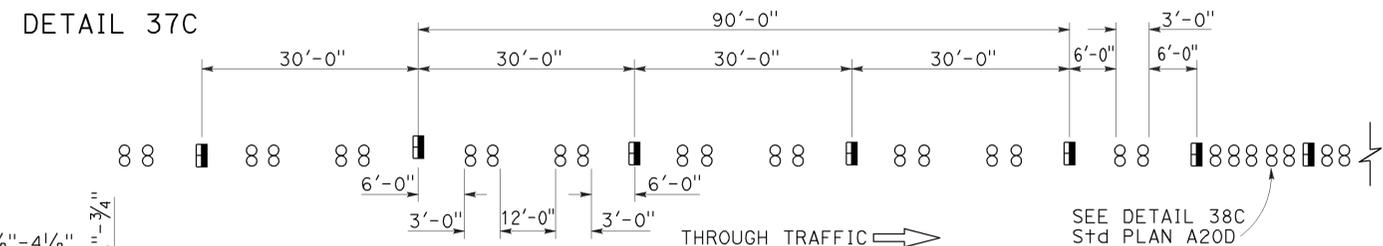
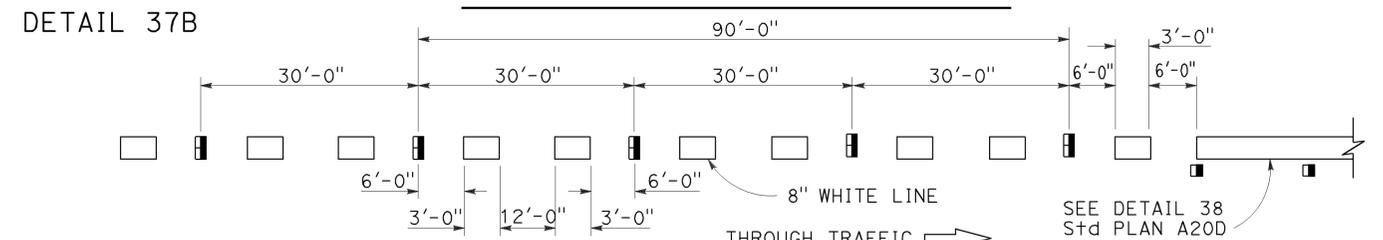
TO ACCOMPANY PLANS DATED 3-2-15

LANE DROP AT EXIT RAMP



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

LANE DROP AT INTERSECTIONS



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

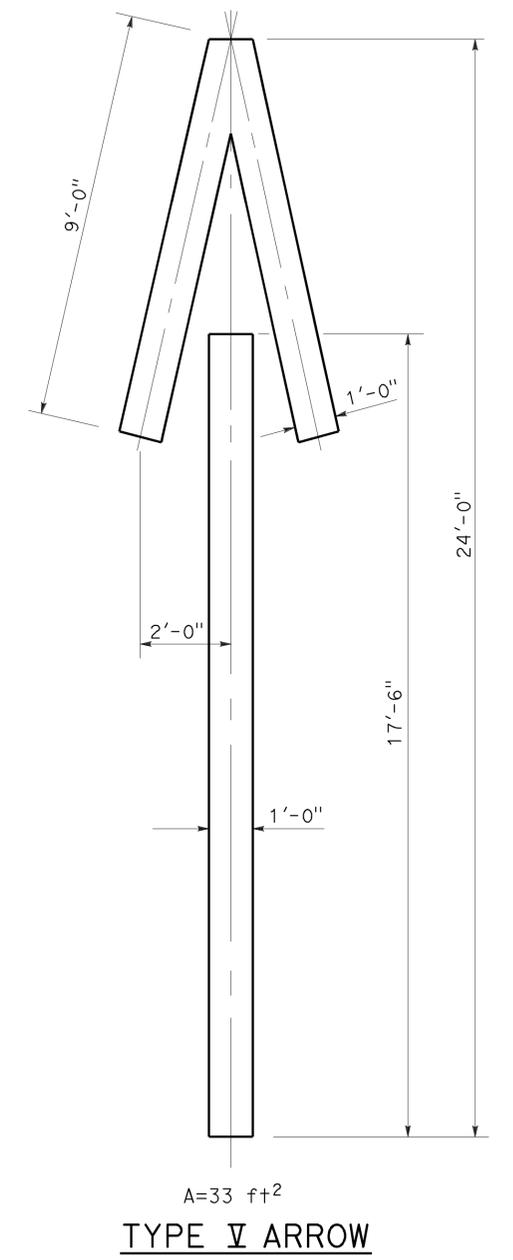
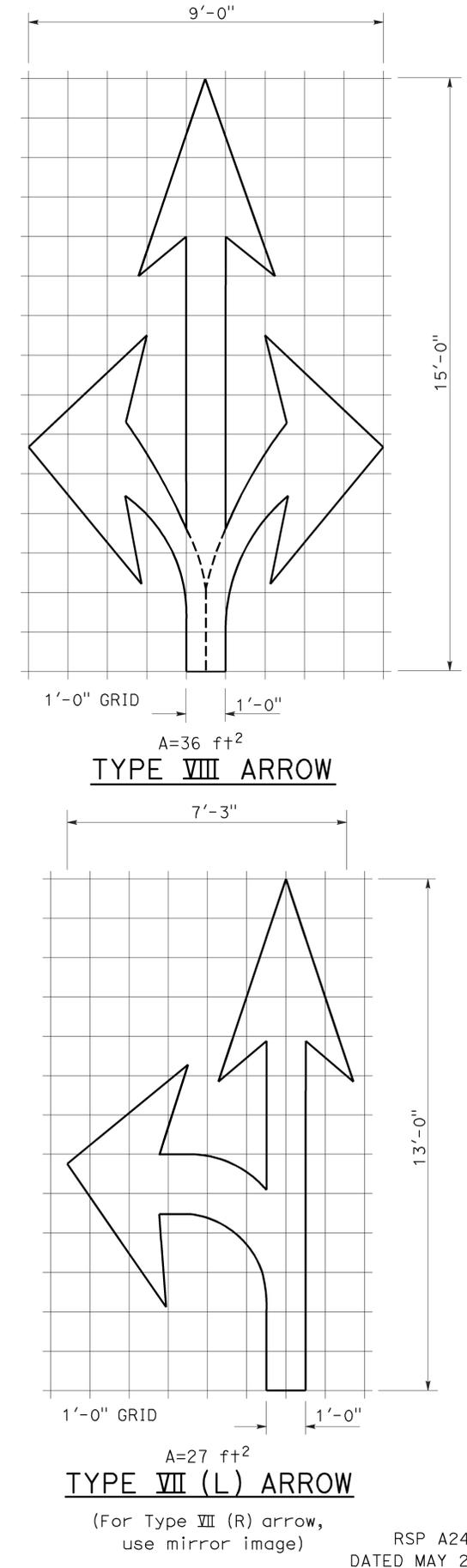
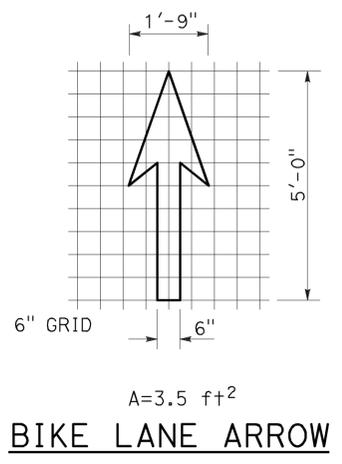
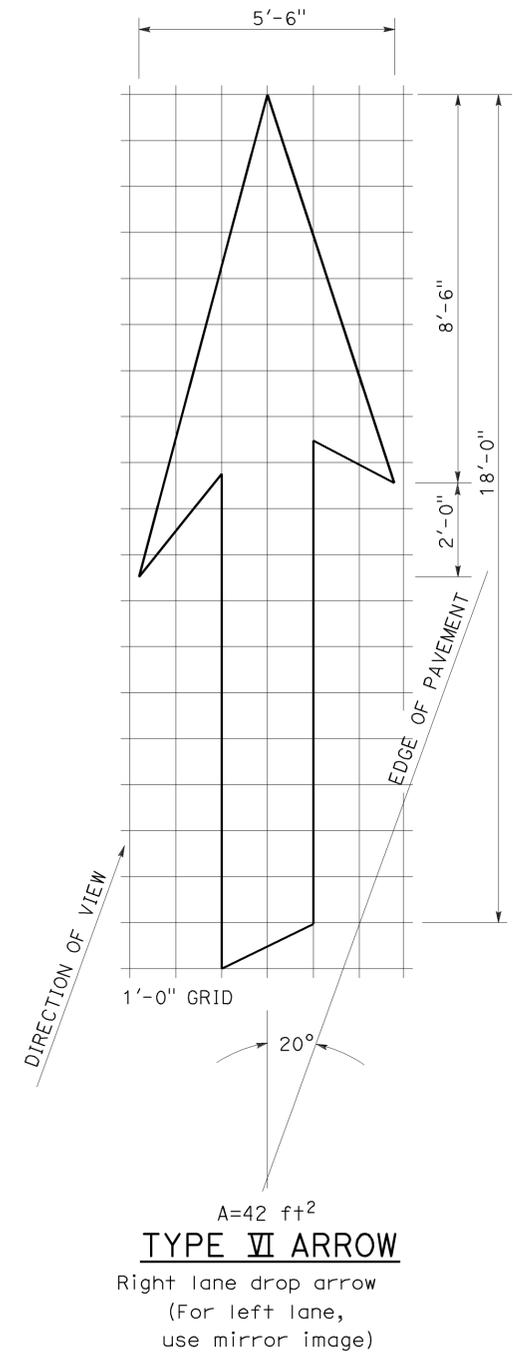
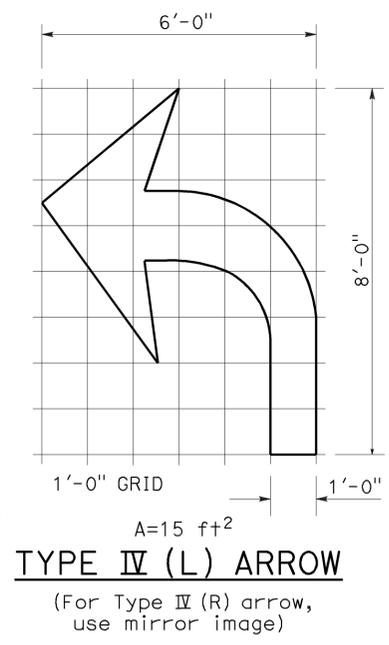
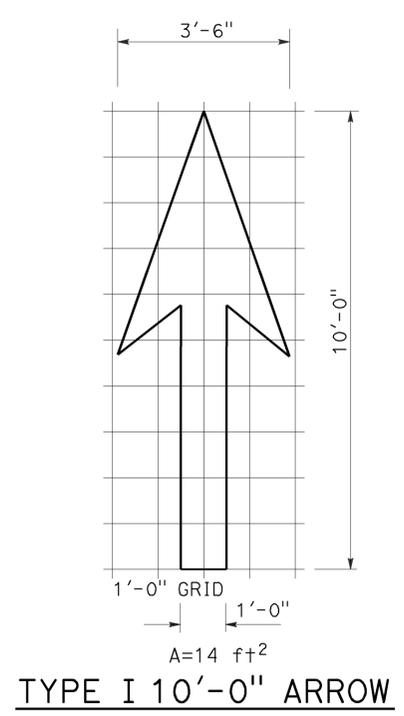
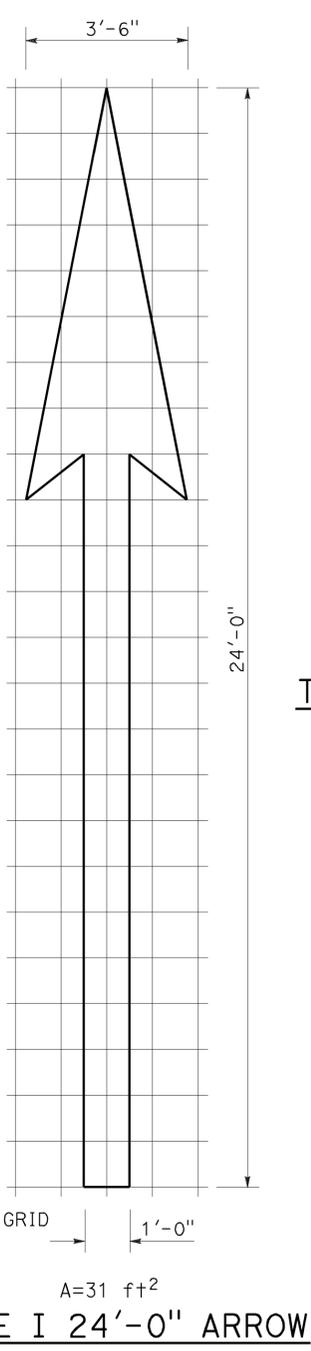
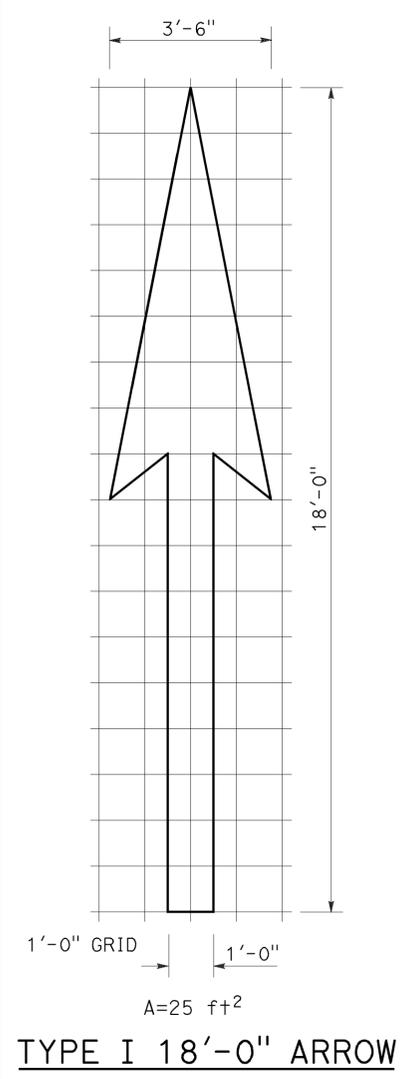
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	33	63

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

April 20, 2012
 PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 3-2-15



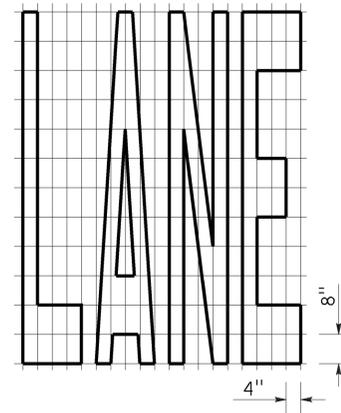
NOTE:
Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

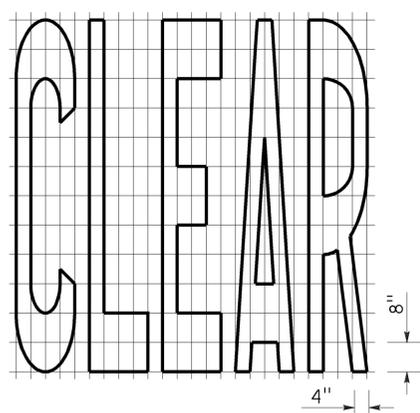
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A24A

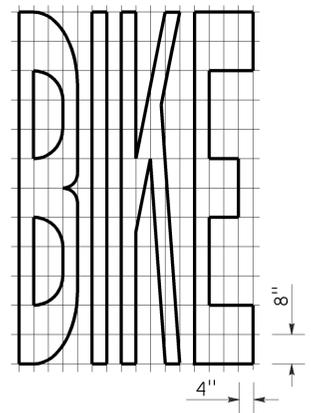
TO ACCOMPANY PLANS DATED 3-2-15



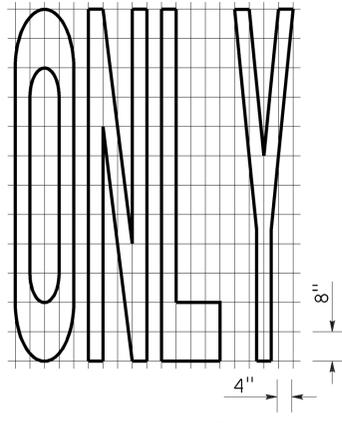
A=24 ft²



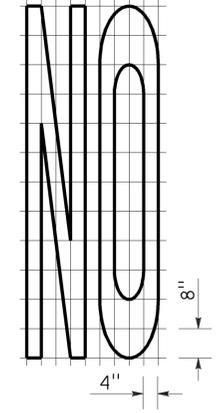
A=27 ft²



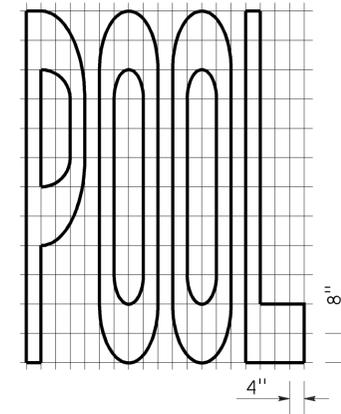
A=21 ft²



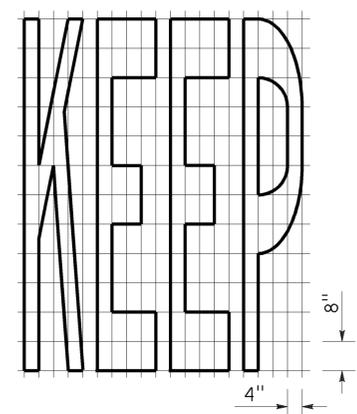
A=22 ft²



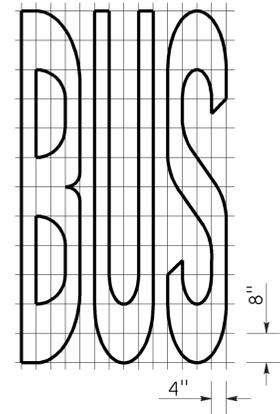
A=14 ft²



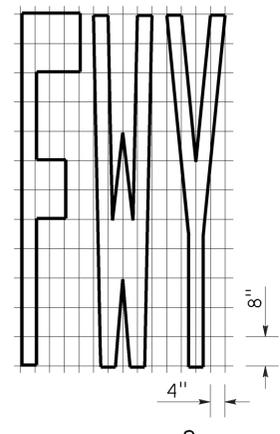
A=23 ft²



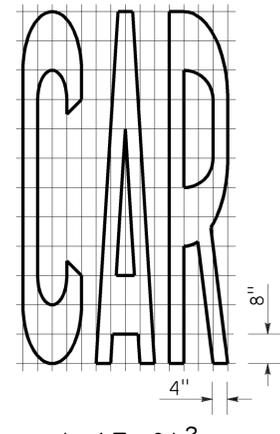
A=24 ft²



A=20 ft²

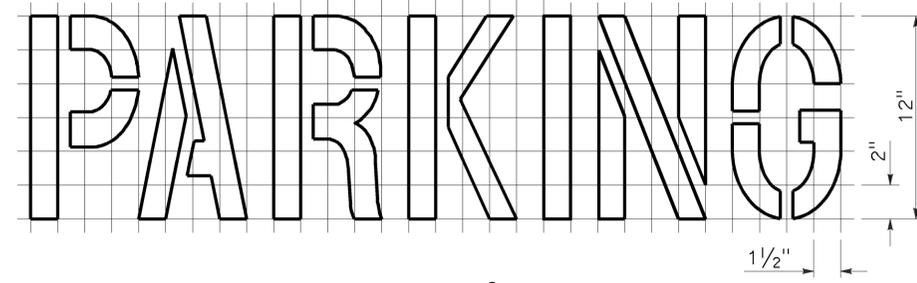
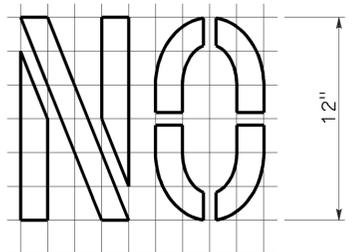


A=16 ft²

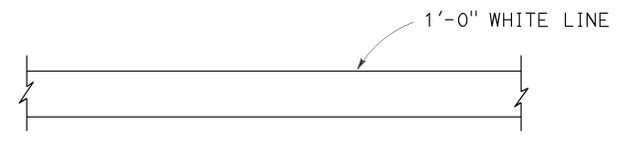


A=17 ft²

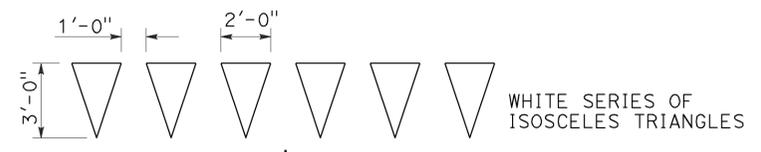
WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

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

STATE OF CALIFORNIA
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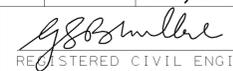
**PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES**

NO SCALE

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

2010 REVISED STANDARD PLAN RSP A24E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	35	63


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 3-2-15

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		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X Y Z **		
					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%
		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 recommended 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

2010 REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	36	63

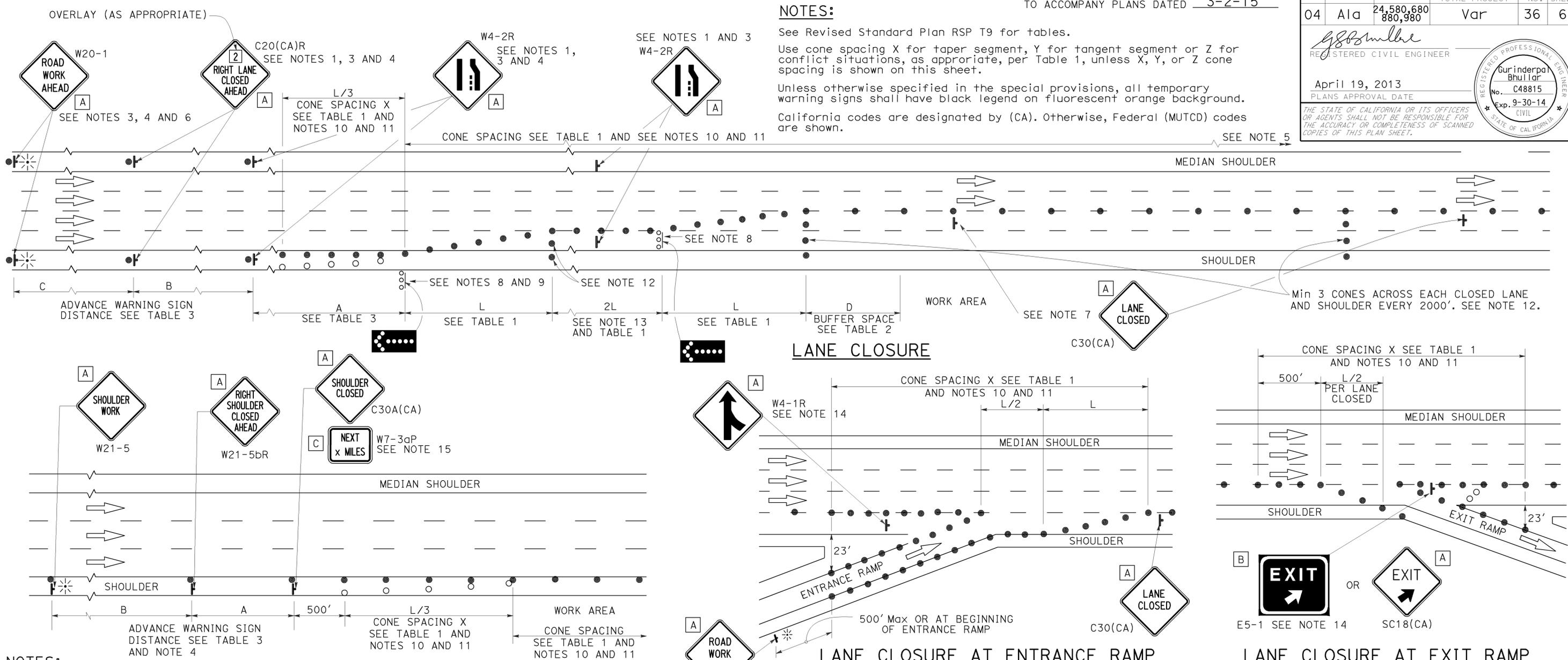
REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

TO ACCOMPANY PLANS DATED 3-2-15

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 appropriate, 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. 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.

SHOULDER CLOSURE

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)L and W4-2L signs shall be used.
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.

LANE CLOSURE AT ENTRANCE RAMP

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 the shoulder 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"

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	37	63

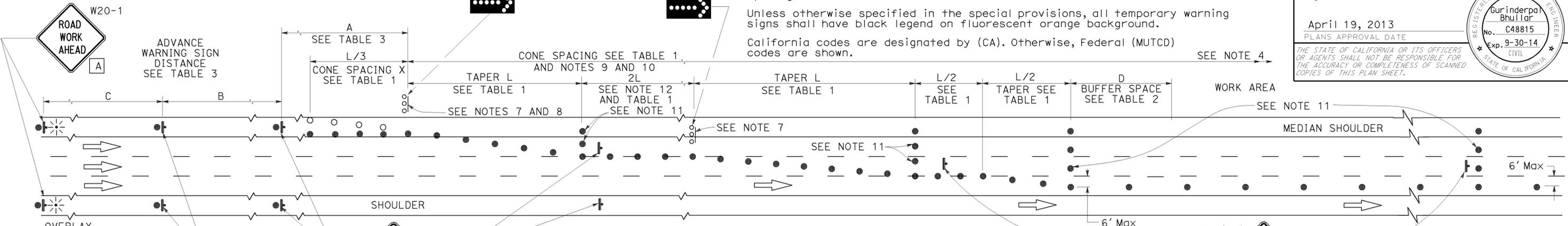
REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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.

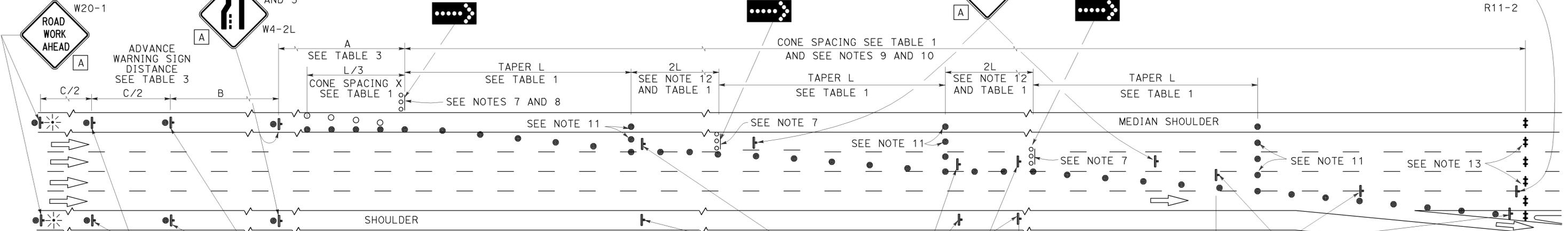
NOTES: See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
 California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

SEE NOTES 3 AND 5



LANE CLOSURE WITH PARTIAL SHOULDER USE

SEE NOTES 3 AND 5



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- 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.
- 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.
- 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.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- 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.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- 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.
- 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.
- A minimum of Two Type II or III 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.
- 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"

LEGEND

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURES ON
 FREEWAYS AND EXPRESSWAYS**
 NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

2010 REVISED STANDARD PLAN RSP T10A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	38	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE
 REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 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: (APPLY TO THIS SHEET ONLY)

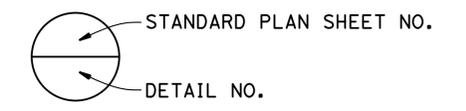
- ① Clean concrete surface area and paint Bridge Name, Bridge Number and post mile.
- ② Clean concrete surface area on column and paint Bridge name and Bridge Number.
- ③ Indicates approximate location of repair spalled surface areas. For details see "REPAIR SPALLED SURRFACE AREA DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "REPAIR SPALLED SURFACE AREA TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.

NOTES: (APPLY TO ALL SHEETS)

----- Indicates existing.
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

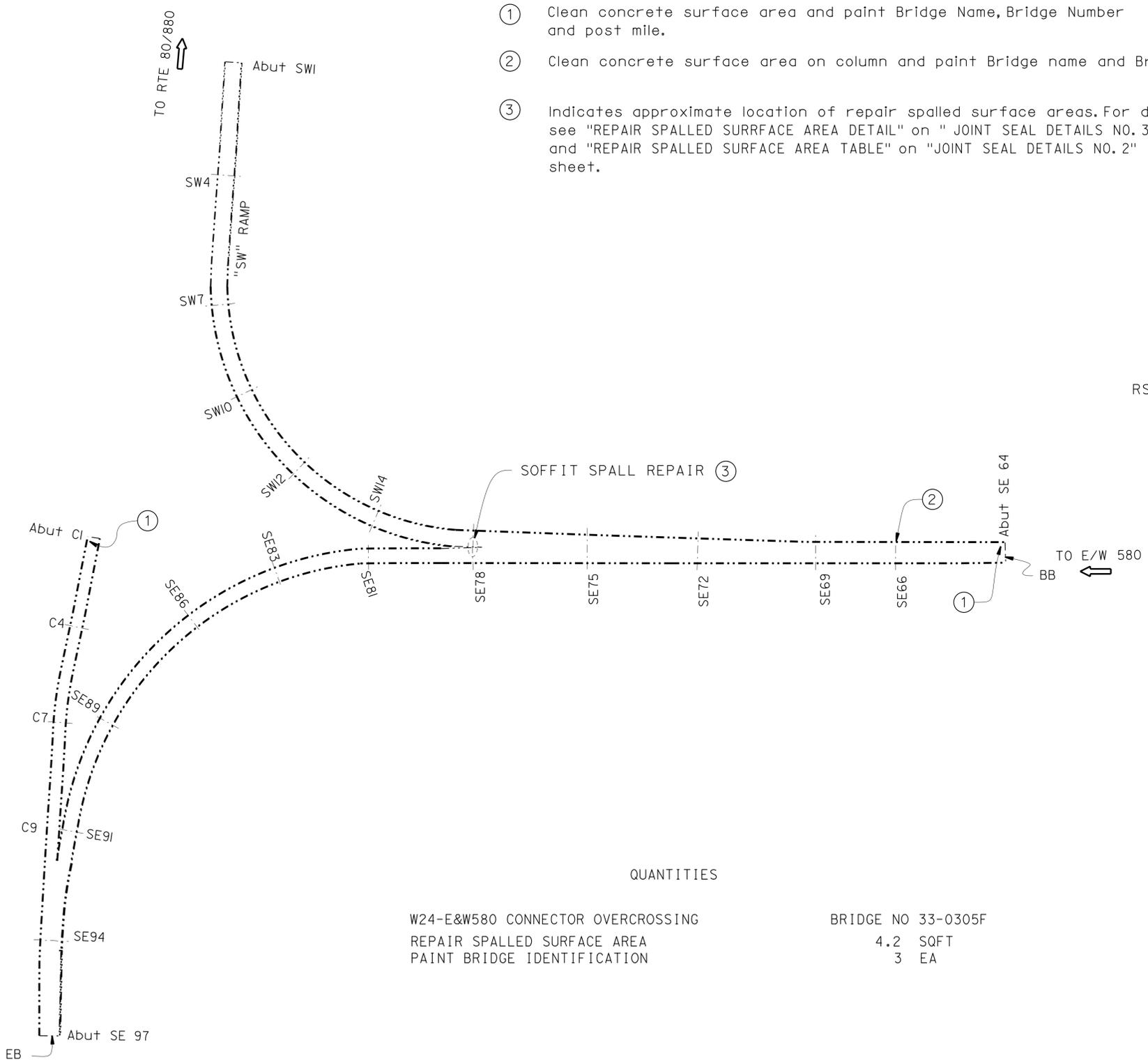
STANDARD PLANS DATED 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	GENERAL PLAN NO. 10
11	GENERAL PLAN NO. 11
12	GENERAL PLAN NO. 12
13	GENERAL PLAN NO. 13
14	GENERAL PLAN NO. 14
15	GENERAL PLAN NO. 15
16	GENERAL PLAN NO. 16
17	GENERAL PLAN NO. 17
18	JOINT SEAL DETAILS NO. 1
19	JOINT SEAL DETAILS NO. 2
20	JOINT SEAL DETAILS NO. 3
21	JOINT SEAL DETAILS NO. 4
22	JOINT SEAL DETAILS NO. 5
23	JOINT SEAL DETAILS NO. 6
24	JOINT SEAL DETAILS NO. 7
25	JOINT SEAL DETAILS NO. 8
26	STRIP JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4")



QUANTITIES

W24-E&W580 CONNECTOR OVERCROSSING	BRIDGE NO 33-0305F
REPAIR SPALLED SURFACE AREA	4.2 SQFT
PAINT BRIDGE IDENTIFICATION	3 EA

W24-E&W580 CONNECTOR OVERCROSSING

Br No. 33-0305F, Ala, ROUTE 24, PM R1.88
 NO SCALE

1-23-15
 DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY Sirisha Nelapatla

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 1

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3488
 PROJECT NUMBER & PHASE: 0413000284

CONTRACT NO.: 04-4H8301

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
	3-27-04 10-07-14 5-16-14 8-28-14	1	26

USERNAME => s123043 DATE PLOTTED => 13-MAR-2015 TIME PLOTTED => 13:04

NOTES: (APPLY TO THIS SHEET ONLY)



Indicates limits of remove 1" of concrete deck surface.



Indicates limits of prepare concrete bridge deck surface and place 1" depth polyester concrete overlay. Prior to prepare bridge deck, remove unsound concrete and place rapid setting concrete (patch).



Indicates limits of clean expansion joint and install joint seal.



Indicates limits of reconstruct expansion joint for details see "DETAILS AT BENT" on "JOINT SEAL DETAILS NO. 5" sheet.

- ① Clean concrete surface area and paint Bridge Name, Bridge Number and Post Mile.
- ② Clean concrete surface area and paint Bent Number.
- ③ Indicates approximate location of repair spalled surface areas. For details see "REPAIR SPALLED SURFACE AREA TABLE" on "JOINT SEAL DETAILS NO. 2" sheet and "REPAIR SPALLED SURFACE AREA" on "JOINT SEAL DETAILS NO. 3" sheet.
- ④ Indicates approximate location of remove unsound concrete and place rapid setting concrete (patch). For details see "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet and "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet.

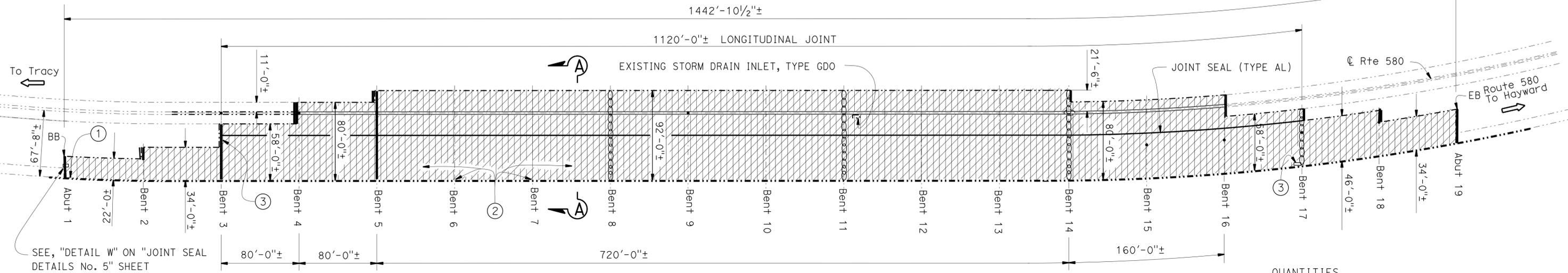
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	39	63

REGISTERED CIVIL ENGINEER
 No. C 55562
 Exp. 12-31-16
 CIVIL

1-23-15
 DATE

3-2-15
 PLANS APPROVAL DATE

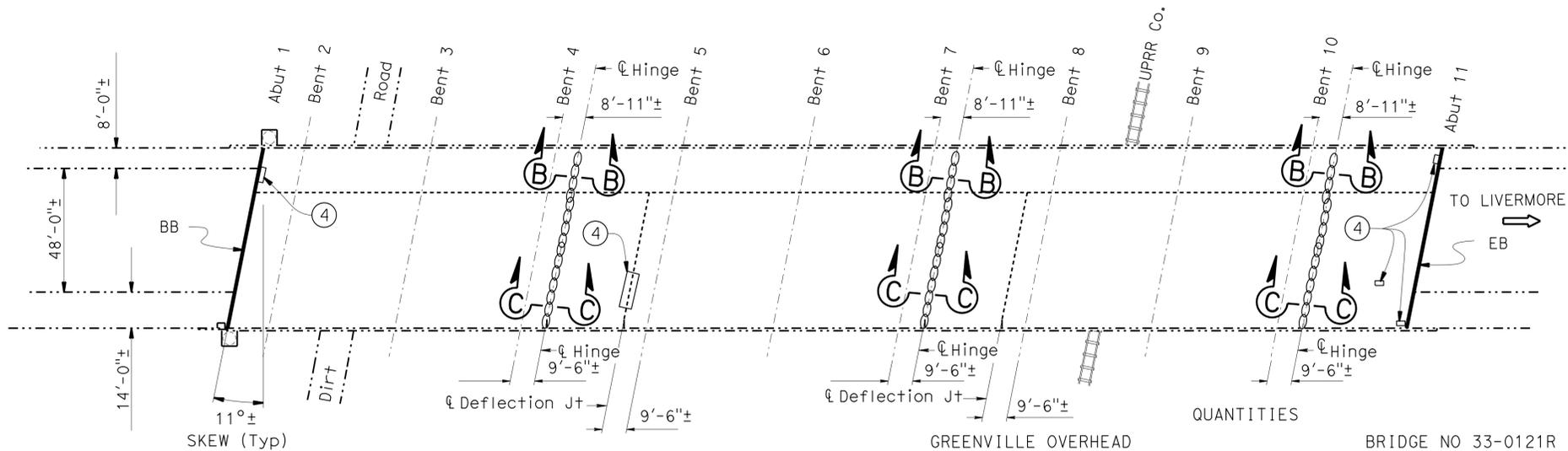
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



ALTAMONT SIDEHILL VIADUCT

Br No. 33-0406, Ala, ROUTE 580, PM R6.92
 1"=50'

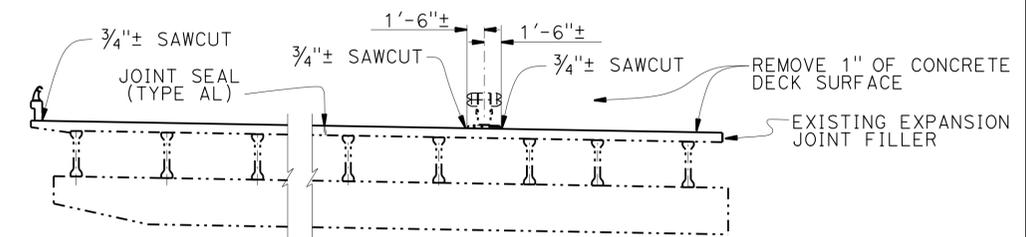
ALTAMONT SIDEHILL VIADUCT		BRIDGE NO 33-0406	
RAPID SETTING CONCRETE (PATCH)	771	CF	
REPAIR SPALLED SURFACE AREA	3.7	SQFT	
REMOVE CONCRETE DECK SURFACE	102,800	SQFT	
REMOVE UNSOUND CONCRETE	771	CF	
PREPARE CONCRETE BRIDGE DECK SURFACE	102,800	SQFT	
FURNISH POLYESTER CONCRETE OVERLAY	10,280	CF	
PLACE POLYESTER CONCRETE OVERLAY	102,800	SQFT	
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP	SUM	
STRUCTURAL CONCRETE, BRIDGE	15	CY	
PAINT BRIDGE IDENTIFICATION	18	EA	
DRILL AND BOND DOWEL	749	LF	
CLEAN EXPANSION JOINT	1,482	LF	
JOINT SEAL (MR 1/2")	189	LF	
JOINT SEAL (MR 1 1/2")	81	LF	
JOINT SEAL (MR 2")	429	LF	
JOINT SEAL (TYPE AL)	1,120	LF	
BAR REINFORCING STEEL (BRIDGE)	3,306	LB	



GREENVILLE OVERHEAD

Br No. 33-0121R, Ala, ROUTE 580, PM R8.00
 1"=30'

GREENVILLE OVERHEAD		BRIDGE NO 33-0121R	
RAPID SETTING CONCRETE (PATCH)	24	CF	
REMOVE UNSOUND CONCRETE	24	CF	
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP	SUM	
STRUCTURAL CONCRETE, BRIDGE	9	CY	
CLEAN EXPANSION JOINT	143	LF	
JOINT SEAL (MR 1")	215	LF	
JOINT SEAL (MR 1 1/2")	143	LF	



Note: For "SECTION B-B" and "SECTION C-C" see "JOINT SEAL DETAILS NO. 4" sheet.

DESIGN ENGINEER
 1-23-15

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	CHECKED
LAYOUT	BY DAVID KISH	CHECKED TIM CAMPBELL
SPECIFICATIONS	BY SIRISHA NELAPATLA	PLANS AND SPECS COMPARED SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES

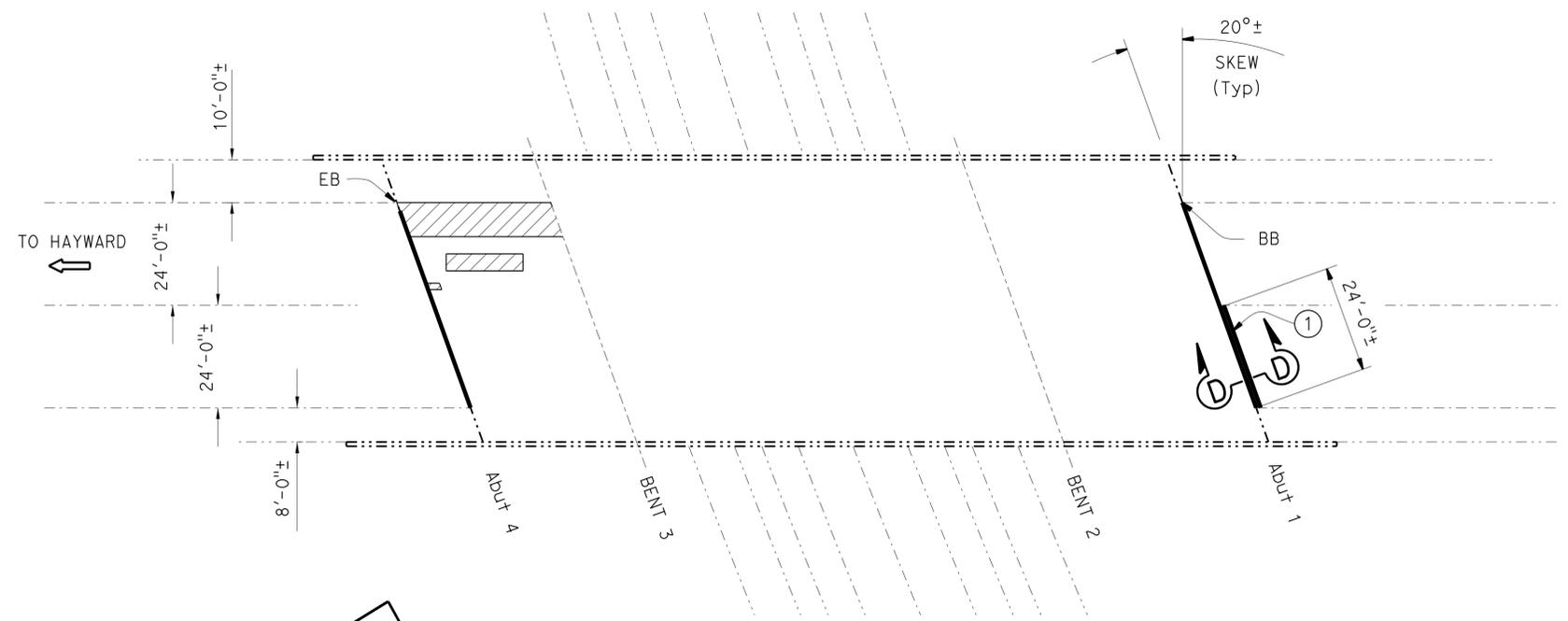
ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	40	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of remove unsound concrete, place rapid setting concrete (patch), prepare concrete bridge deck surface and place 3/4" polyester concrete overlay. For details see "DECK REPAIR DETAIL-OVERLAY" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.
 - Indicates limits of clean expansion joint and install joint seal.
 - ① Remove 1"± AC surfacing and construct polyester concrete expansion dam, depth 1". For details see "SECTION D-D" on "GENERAL PLAN NO. 4" sheet.

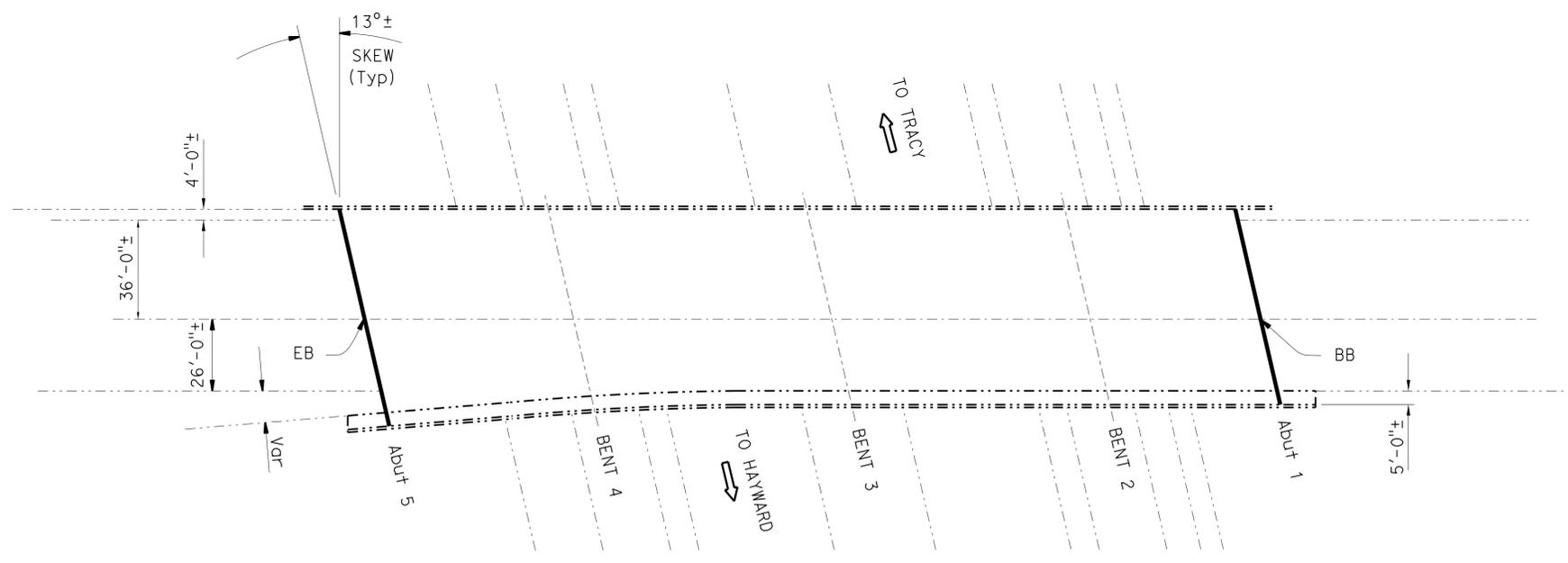
GREENVILLE ROAD UNDERCROSSING

Br No. 33-0026R, Ala, ROUTE 580, PM R8.29
1"=20'



QUANTITIES

GREENVILLE ROAD UNDERCROSSING	BRIDGE NO 33-0026R
RAPID SETTING CONCRETE (PATCH)	102 CF
REMOVE UNSOUND CONCRETE	102 CF
POLYESTER CONCRETE EXPANSION DAM	2 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	312 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	23 CF
PLACE POLYESTER CONCRETE OVERLAY	312 SQFT
CLEAN EXPANSION JOINT	102 LF
JOINT SEAL (MR 1")	102 LF



VASCO ROAD OVERCROSSING

Br No. 33-0400, Ala, ROUTE 580, PM 9.68
1"=30'



QUANTITIES

VASCO ROAD OVERCROSSING	BRIDGE NO 33-0400
CLEAN EXPANSION JOINT	154 LF
JOINT SEAL (MR 1 1/2")	81 LF
JOINT SEAL (MR 2")	73 LF

1-23-15
 DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY SIRISHA NELAPATLA
				PLANS AND SPECS COMPARED SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES
ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	41	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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QUANTITIES

BRIDGE NO 33-0203

6	CF
187	LF
187	LF

NOTES: (APPLY TO THIS SHEET ONLY)

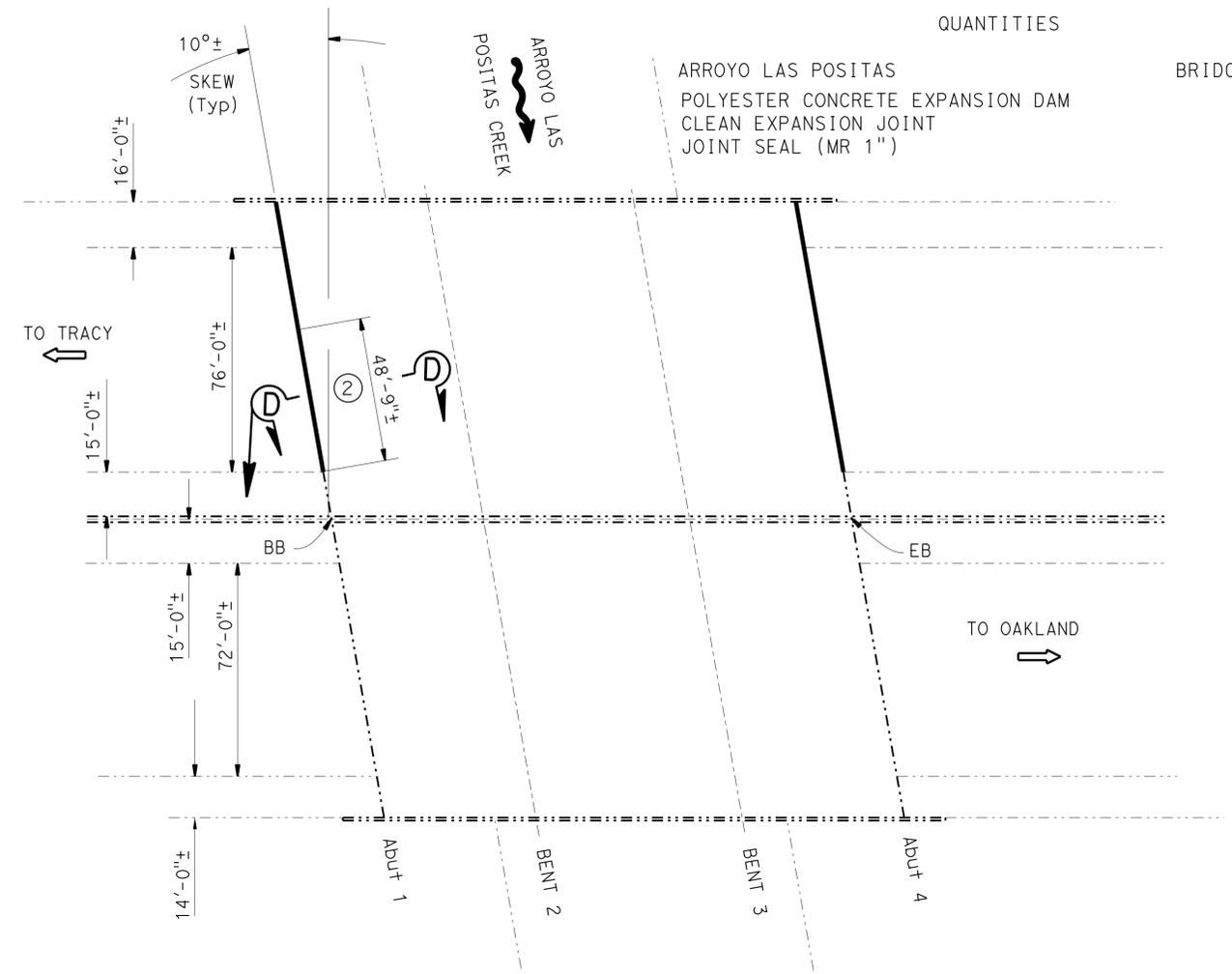


Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Prior to treating bridge deck, remove unsound concrete and place rapid setting concrete (patch). For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO.3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO.2" sheet.



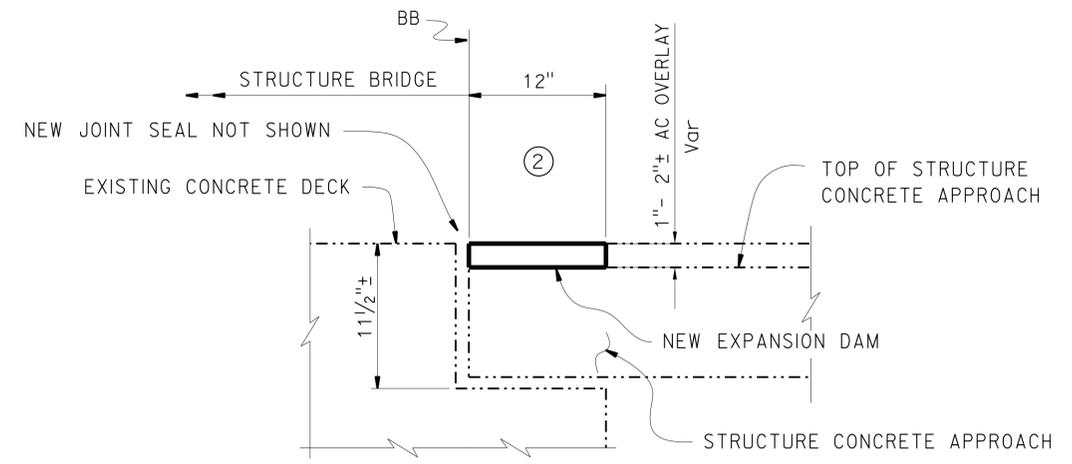
Indicates limits of clean expansion joint and install joint seal.

- ① Clean concrete surface area and paint Bridge Name, Bridge Number and Post Mile.
- ② Construct polyester concrete expansion dam; remove approximately 2"± depth AC overlay,



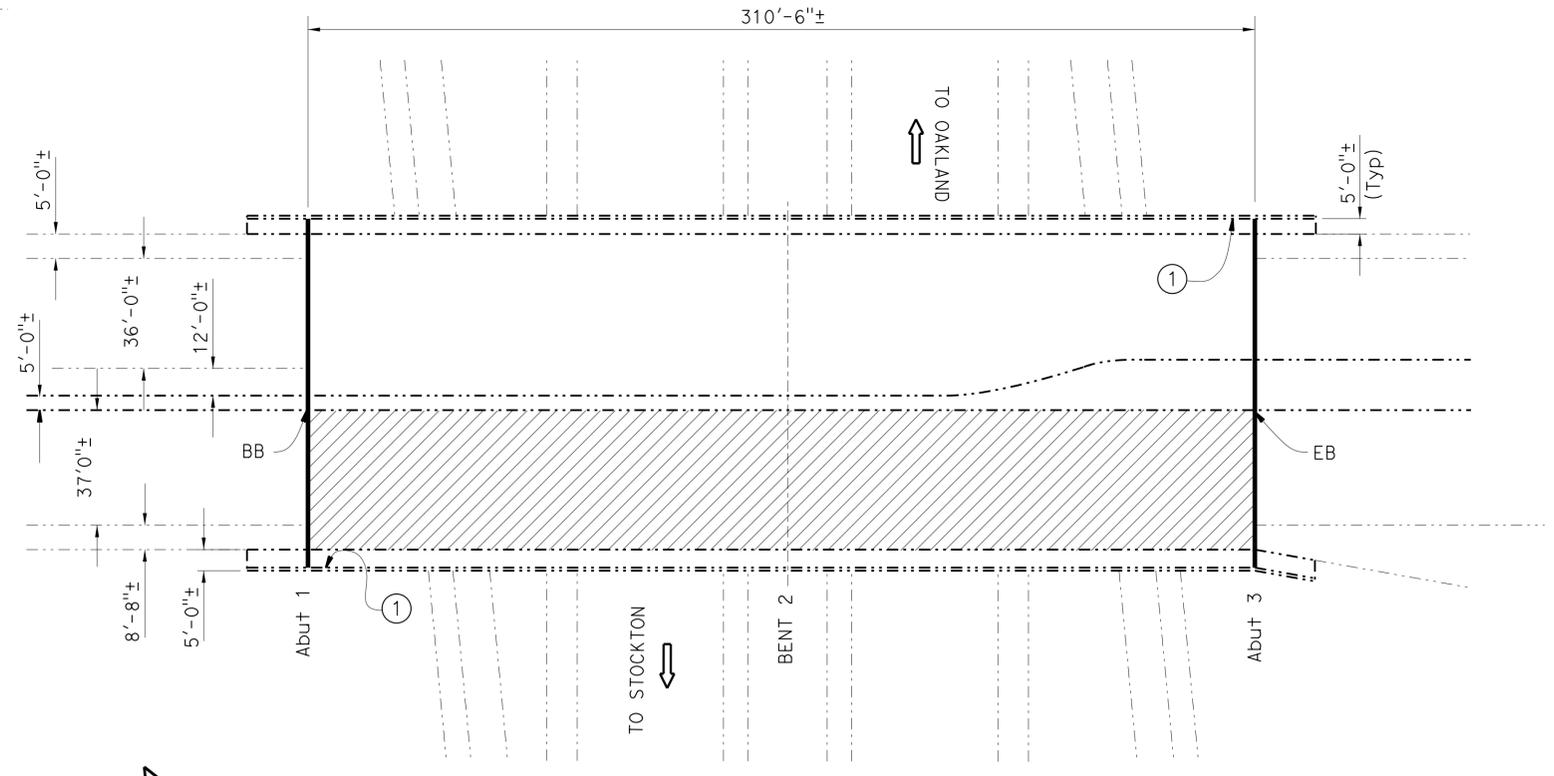
ARROYO LAS POSITAS

Br No. 33-0203, Ala, ROUTE 580, PM 13.13
1"=30'



SECTION D-D

1 1/2" = 1'-0"



TASSAJARA ROAD-SANTA RITA ROAD OVERCROSSING

Br No. 33-0585, Ala, ROUTE 580, PM 17.96
1"=30'

QUANTITIES

TASSAJARA RD-SANTA RITA RD OC BRIDGE NO 33-0585

PUBLIC SAFETY PLAN	LUMP SUM	34	CF
RAPID SETTING CONCRETE (PATCH)		34	CF
REMOVE UNSOUND CONCRETE		13,662	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE		13,662	SQFT
TREAT BRIDGE DECK		152	GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL		2	EA
PAIN BRIDGE IDENTIFICATION		229	LF
CLEAN EXPANSION JOINT		229	LF
JOINT SEAL (MR 1")			

1-23-15
 DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL

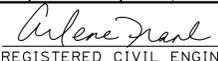
LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT	BY DAVID KISH
SPECIFICATIONS	BY SIRISHA NELAPATLA

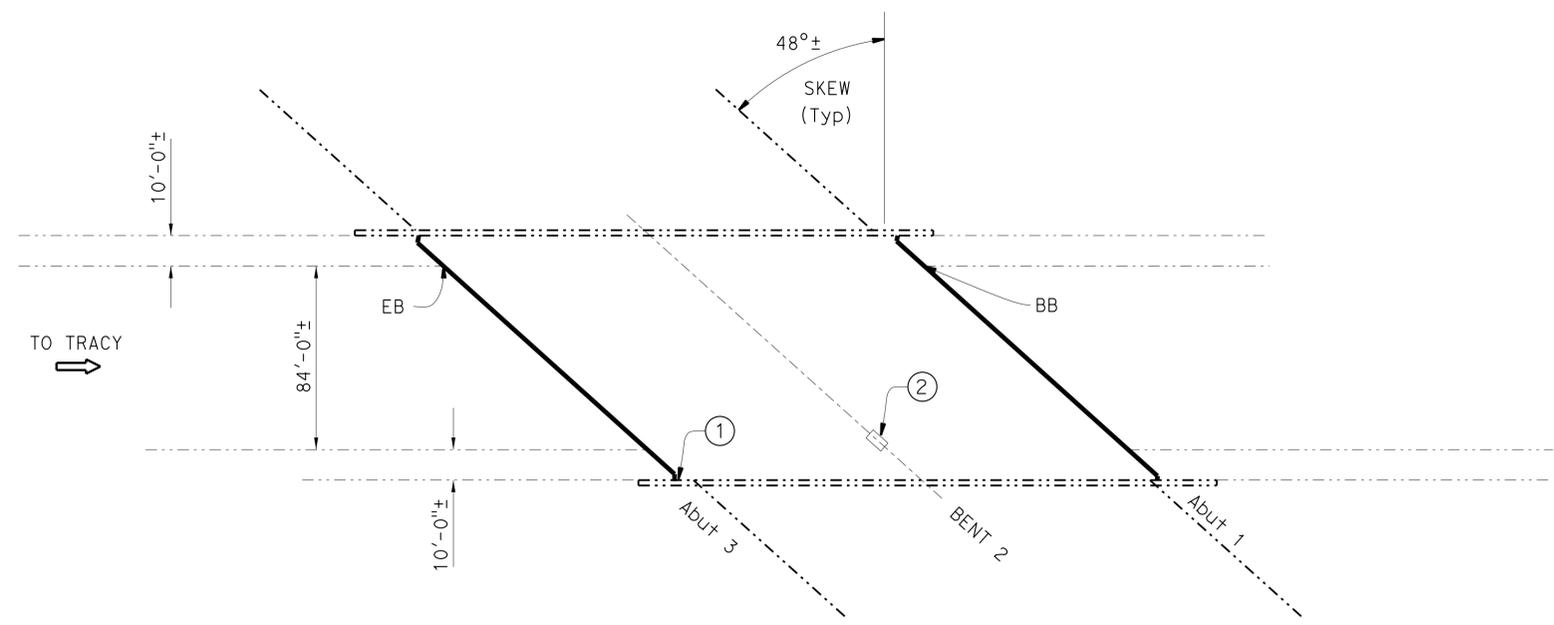
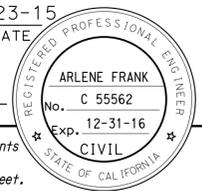
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	42	63
 REGISTERED CIVIL ENGINEER			1-23-15	DATE	
PLANS APPROVAL DATE			3-2-15		
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: (APPLY TO THIS SHEET ONLY)

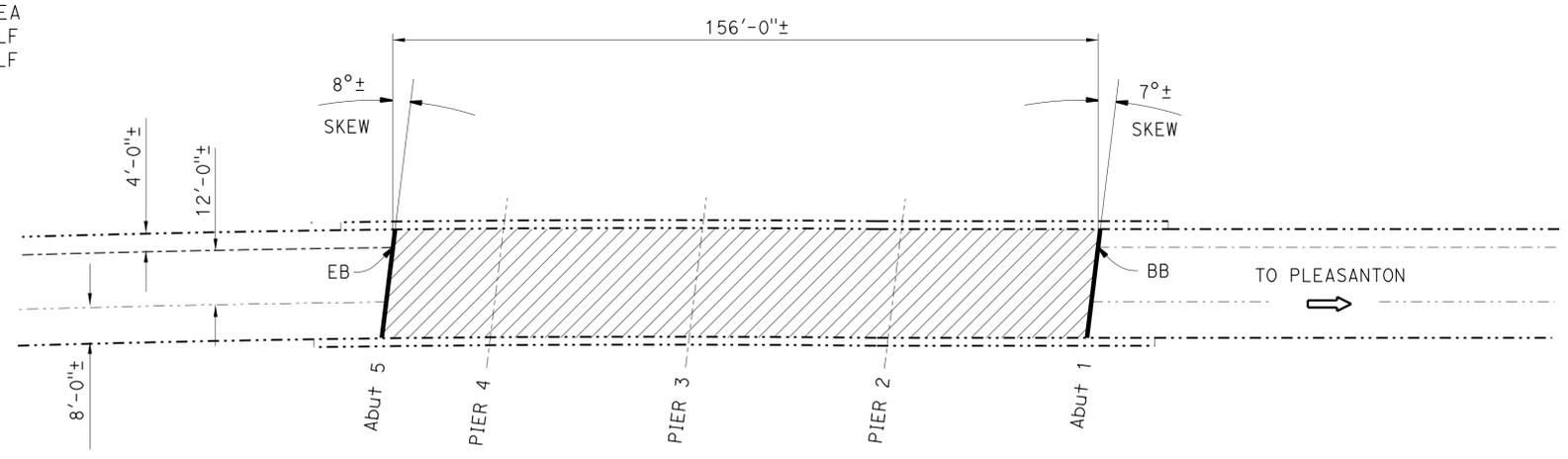
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Prior to treating bridge deck, remove unsound concrete and place rapid setting concrete (patch). For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.
-  Indicates limits of clean expansion joint and install joint seal.
- ① Clean concrete surface area and paint Bridge Name, Bridge Number and Post Mile.
- ② Clean concrete surface area on column and paint Bridge Name and Bridge Number.



DOUGHERTY UNDERCROSSING
 Br No. 33-0150L, Ala, ROUTE 580, PM 19.35
 1"=30'

QUANTITIES

DOUGHERTY UNDERCROSSING	BRIDGE NO 33-0150L
PAINT BRIDGE IDENTIFICATION	2 EA
CLEAN EXPANSION JOINT	312 LF
JOINT SEAL (MR 1")	312 LF



QUANTITIES

ALAMO CANAL	BRIDGE NO 33-0642K
RAPID SETTING CONCRETE (PATCH)	9 CF
REMOVE UNSOUND CONCRETE	9 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,744 SQFT
TREAT BRIDGE DECK	3,744 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	42 GAL
CLEAN EXPANSION JOINT	49 LF
JOINT SEAL (MR 1 1/2")	49 LF



ALAMO CANAL
 Br No. 33-0642K, Ala, ROUTE 580, PM 20.56
 1"=20'


 DESIGN ENGINEER 1-23-15

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY SIRISHA NELAPATLA
			PLANS AND SPECS COMPARED	SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

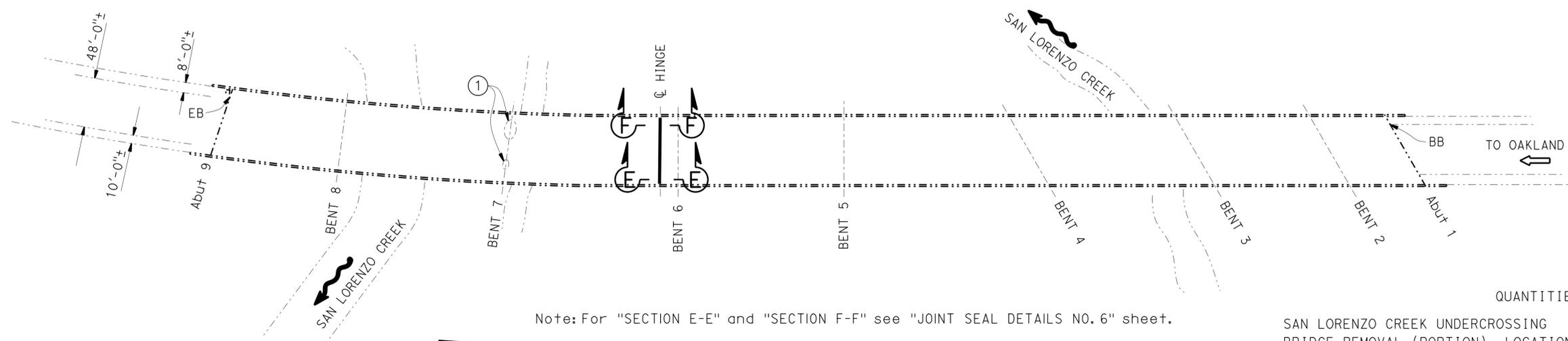
ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	43	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 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.

- NOTES: (APPLY TO THIS SHEET ONLY)
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Prior to treating bridge deck, remove unsound concrete and place rapid setting concrete (patch). For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.
 -  Indicates limits of remove existing joint seal assembly and install joint seal assembly.
 -  Clean concrete surface and paint Bridge Name and Bridge Number on the Column.



Note: For "SECTION E-E" and "SECTION F-F" see "JOINT SEAL DETAILS NO. 6" sheet.

SAN LORENZO CREEK UNDERCROSSING

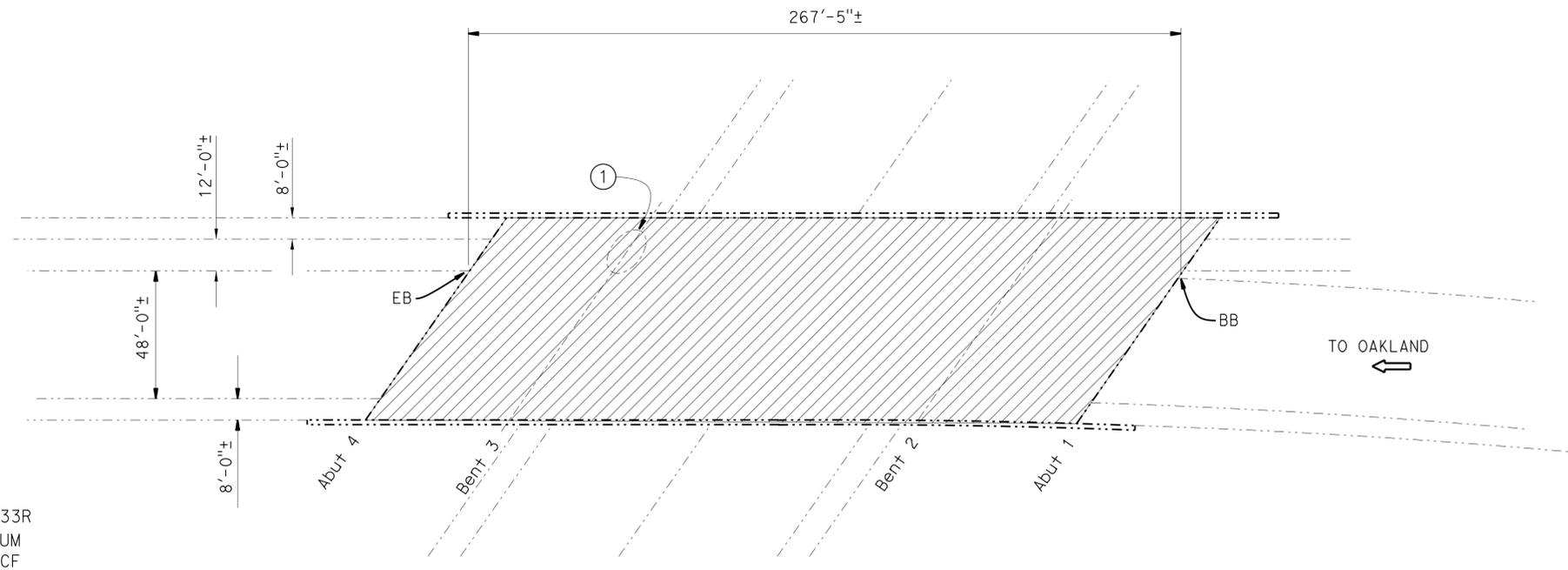
Br No. 33-0230R, Ala, ROUTE 580, PM R27.53
1"=60'

QUANTITIES

SAN LORENZO CREEK UNDERCROSSING BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	5 CY
PAINT BRIDGE IDENTIFICATION	2 EA
JOINT SEAL ASSEMBLY (MR 3")	67 LF

BRIDGE NO 33-0230R

LUMP SUM
5 CY
2 EA
67 LF



CROW CANYON ROAD UNDERCROSSING

Br No. 33-0233R, Ala, ROUTE 580, PM R28.41
1"=30'

QUANTITIES

CROW CANYON ROAD UNDERCROSSING PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	51 CF
REMOVE UNSOUND CONCRETE	51 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	20,324 SQFT
TREAT BRIDGE DECK	20,324 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	226 GAL
PAINT BRIDGE IDENTIFICATION	1 EA

BRIDGE NO 33-0233R

Matthew W. Lee 1-23-15
DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY SIRISHA NELAPATLA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 24, 580, 680, 880 & 980

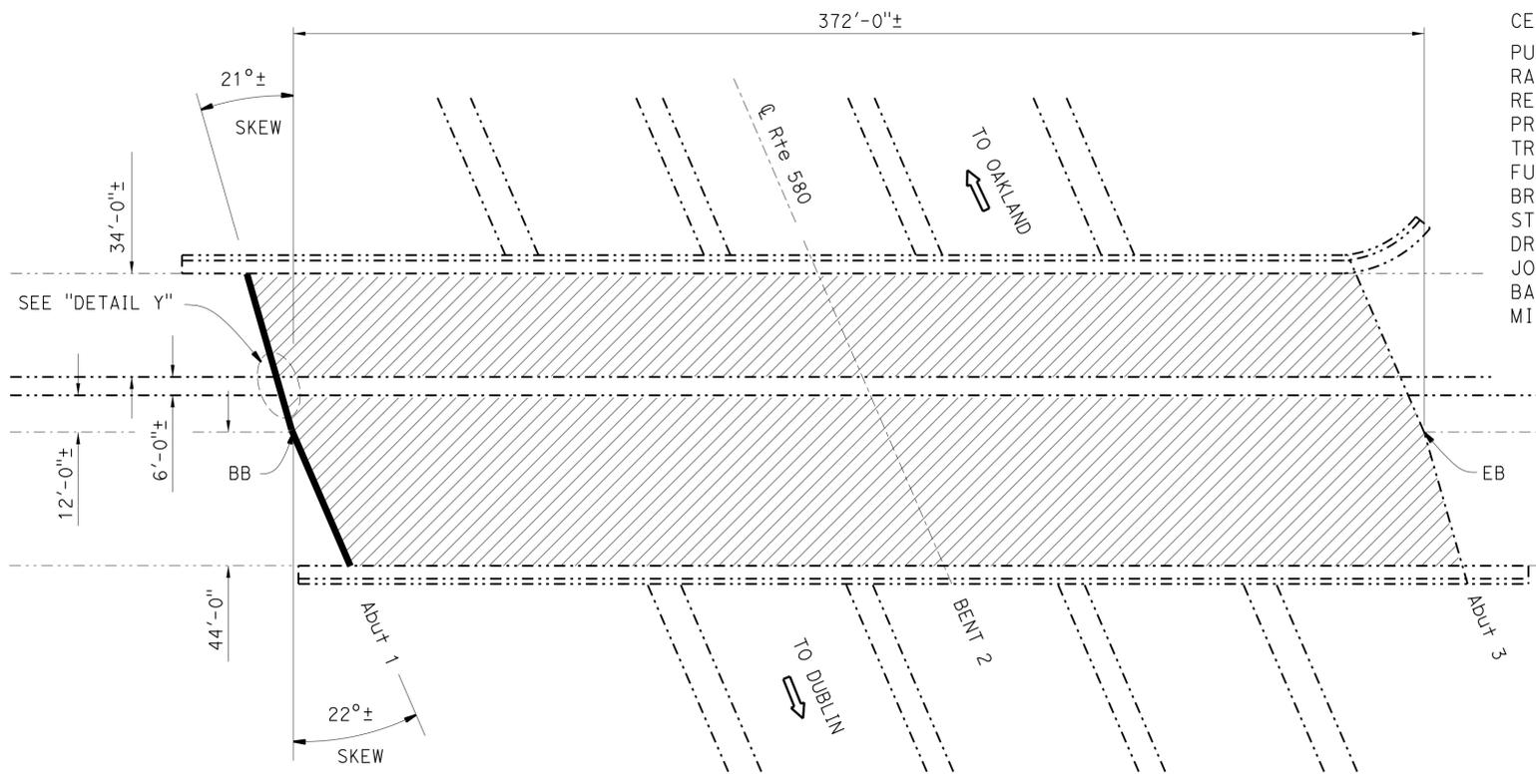
GENERAL PLAN NO. 6

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	44	63

<i>Arlene Frank</i>		1-23-15
REGISTERED CIVIL ENGINEER	DATE	
3-2-15		
PLANS APPROVAL DATE		

No. C 55562	
Exp. 12-31-16	
CIVIL	

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QUANTITIES

CENTER STREET OVERCROSSING	BRIDGE NO 33-0422
PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	84 CF
REMOVE UNSOUND CONCRETE	84 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	33,480 SQFT
TREAT BRIDGE DECK	33,480 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	372 GAL
BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	3 CY
DRILL AND BOND DOWEL	88 LF
JOINT SEAL (MR 1 1/2")	103 LF
BAR REINFORCING STEEL (BRIDGE)	358 LB
MINOR CONCRETE (CURB) (CY)	0.1 CY

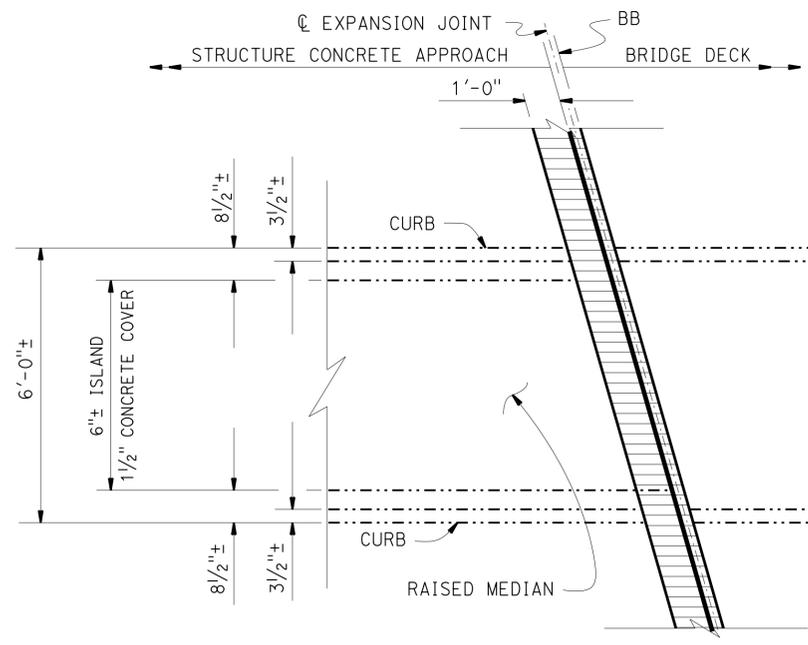
NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Prior to treating bridge deck, remove unsound concrete and place rapid setting concrete (patch). For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.

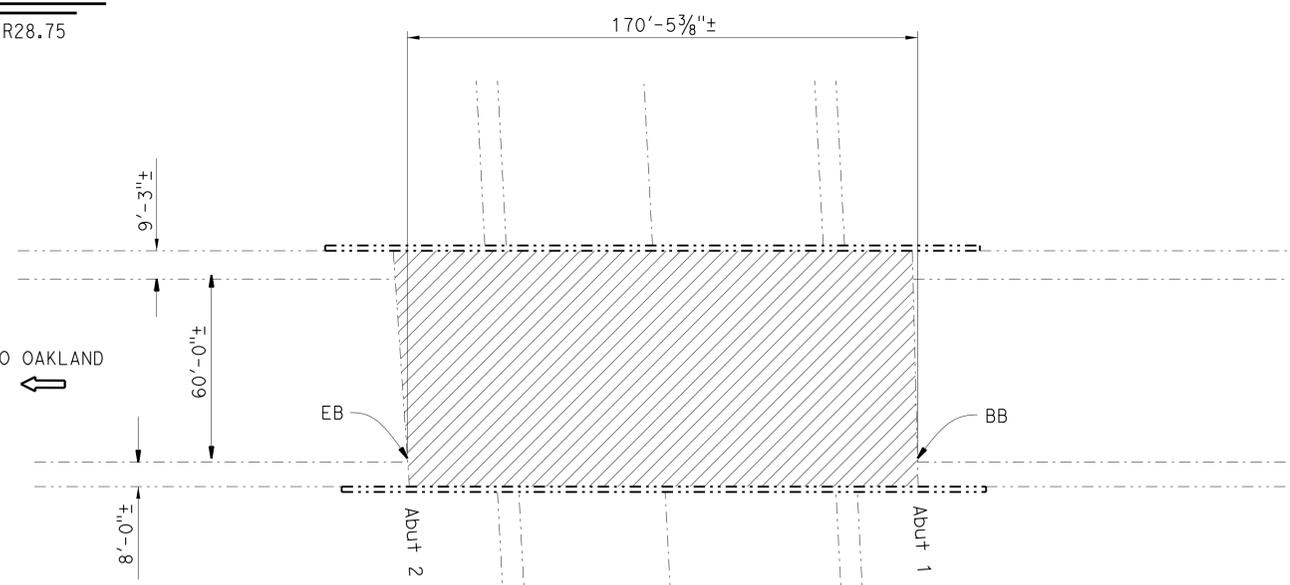
Indicates limits of remove portion of concrete approach slab and placement of new structure concrete. Reconstruct curbs and concrete island.

Indicates limits of reconstruct existing joint and install joint seal. For details see "SECTION AT ABUTMENT 1" on "JOINT SEAL DETAILS NO. 7" sheet.

CENTER STREET OVERCROSSING
 Br No. 33-0422, Ala, ROUTE 580, PM R28.75
 1"=30'



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



REDWOOD ROAD UNDERCROSSING
 Br No. 33-0193R, Ala, ROUTE 580, PM R29.37
 1"=30'

QUANTITIES

REDWOOD ROAD UNDERCROSSING	BRIDGE NO 33-0193R
PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	33 CF
REMOVE UNSOUND CONCRETE	33 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	13,167 SQFT
TREAT BRIDGE DECK	13,167 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	146 GAL

<i>Matthew W. Lee</i> DESIGN ENGINEER	DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
	QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIOUS

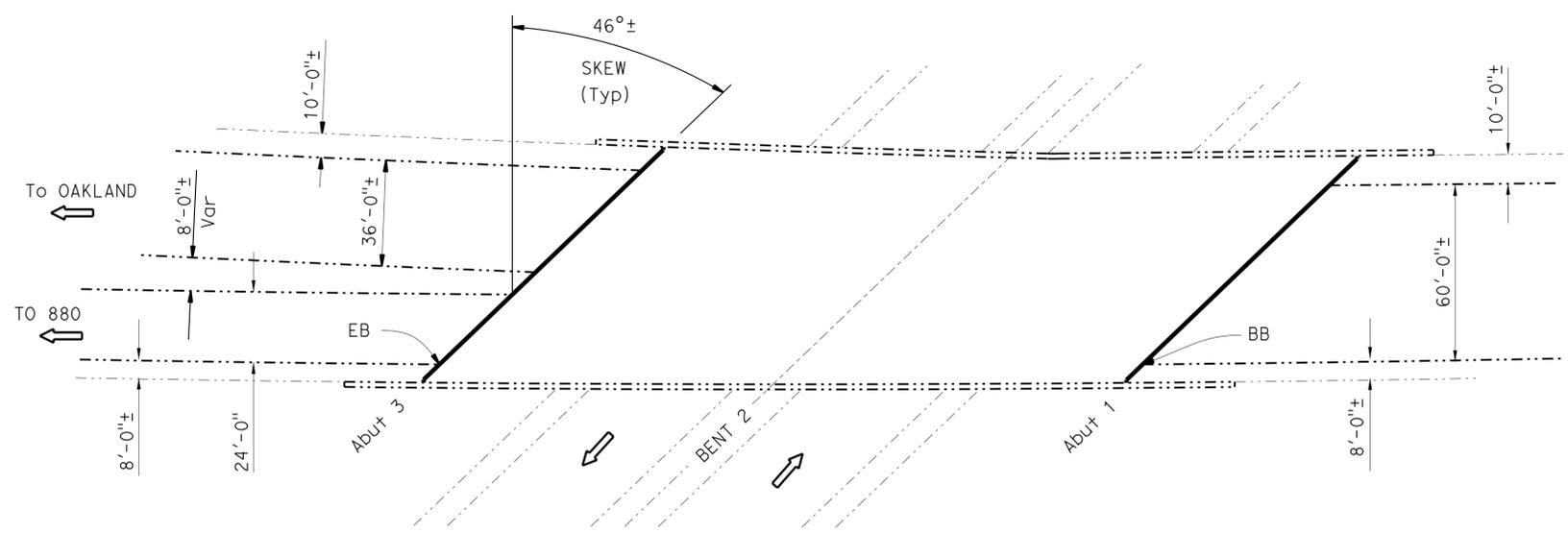
ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 7

UNIT: 3488
 PROJECT NUMBER & PHASE: 0413000284
 CONTRACT NO.: 04-4H8301

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	45	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA



CASTRO VALLEY BOULEVARD UNDERCROSSING

Br No. 33-0202R, Ala, ROUTE 580, PM R30.56
1"=20'

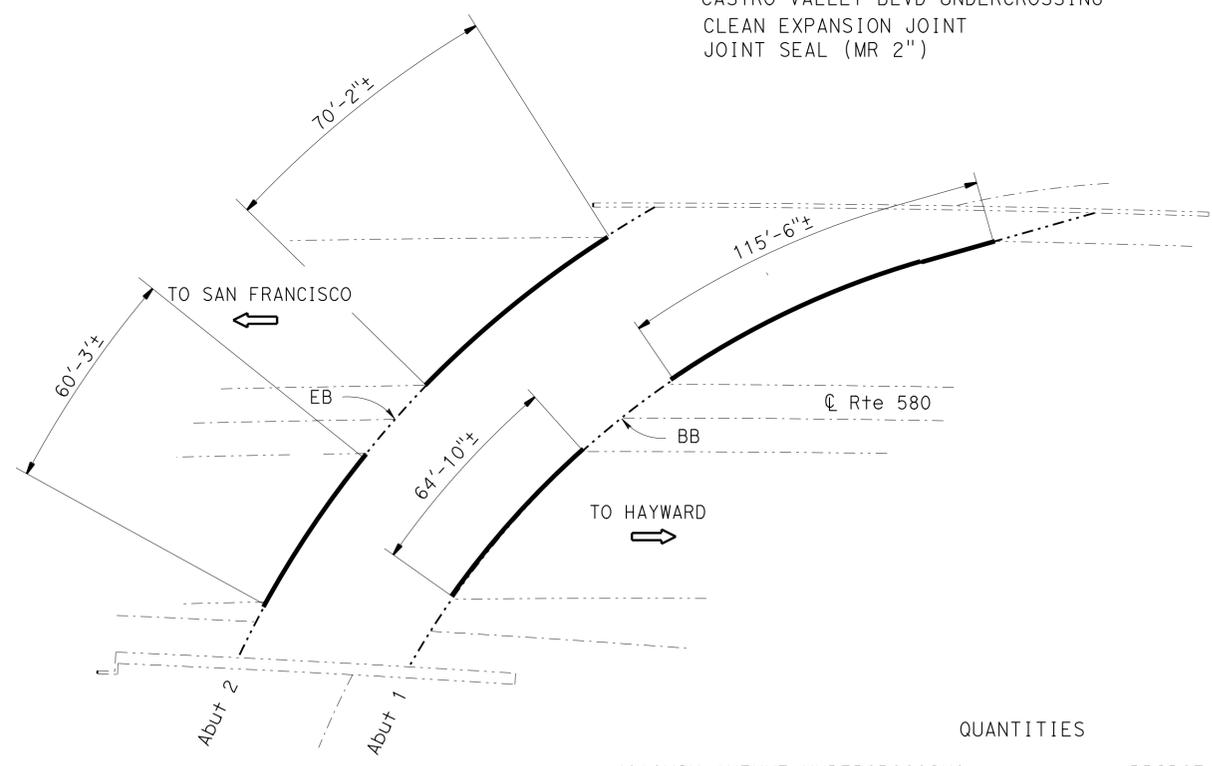
QUANTITIES

CASTRO VALLEY BLVD UNDERCROSSING
 CLEAN EXPANSION JOINT 237 LF
 JOINT SEAL (MR 2") 237 LF

BRIDGE NO 33-0202R
 237 LF
 237 LF



NOTES: (APPLY TO THIS SHEET ONLY)
 Indicates limits of clean expansion joint and install joint seal.



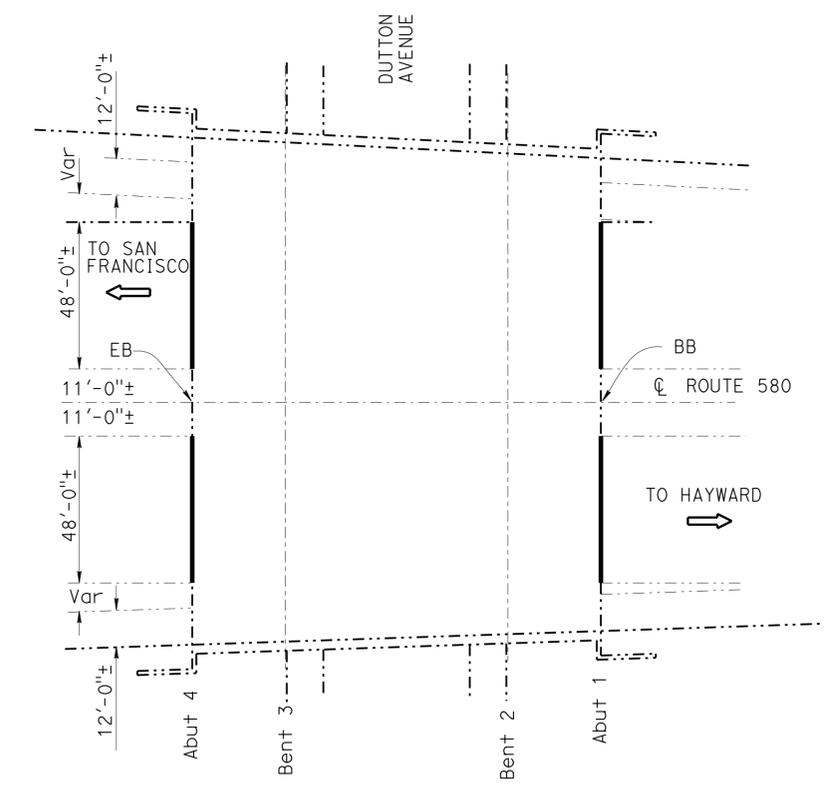
JOAQUIN AVENUE UNDERCROSSING

Br No. 33-0331, Ala, ROUTE 580, PM R34.40
1"=20'

QUANTITIES

JOAQUIN AVENUE UNDERCROSSING
 CLEAN EXPANSION JOINT 311 LF
 JOINT SEAL (MR 1/2") 311 LF

BRIDGE NO 33-0331
 311 LF
 311 LF



DUTTON AVENUE UNDERCROSSING

Br No. 33-0333, Ala, ROUTE 580, PM R34.81
1"=20'

QUANTITIES

DUTTON AVENUE UNDERCROSSING
 CLEAN EXPANSION JOINT 192 LF
 JOINT SEAL (MR 1/2") 192 LF

BRIDGE NO 33-0333
 192 LF
 192 LF



1-23-15
 DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY SIRISHA NELAPATLA
				PLANS AND SPECS COMPARED SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 8

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	46	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE

3-2-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

NOTES: (APPLY TO THIS SHEET ONLY)

① Indicates approximate location of repair spalled surface areas. For details see "REPAIR SPALLED SURFACE AREA" on "JOINT SEAL DETAILS NO. 3" sheet and "REPAIR SPALLED SURFACE AREA TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.

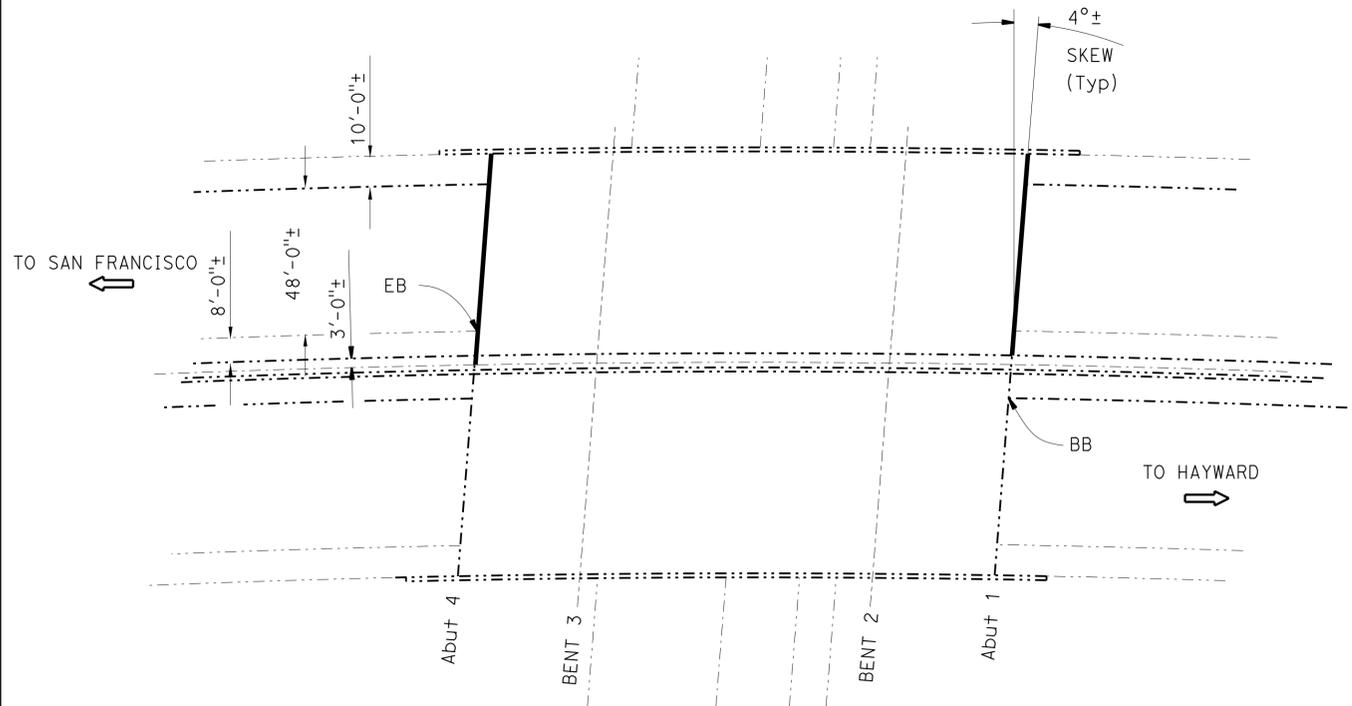
— Indicates limits of clean expansion joint and install joint seal.

QUANTITIES

PARK BOULEVARD UNDERCROSSING	BRIDGE NO 33-0315R
CLEAN EXPANSION JOINT	136 LF
JOINT SEAL (MR 1/2")	67 LF
JOINT SEAL (MR 1")	69 LF

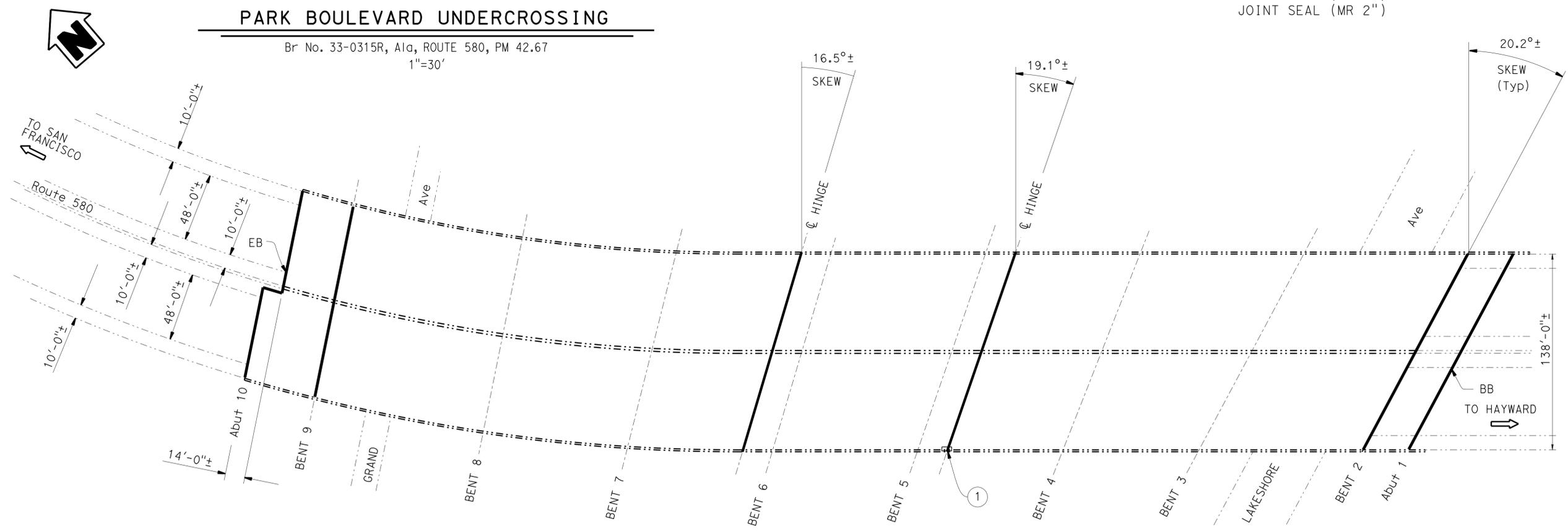
QUANTITIES

LAKESHORE PARK UNDERCROSSING	BRIDGE NO 33-0131
REPAIR SPALLED SURFACE AREA	1 SQFT
CLEAN EXPANSION JOINT	877 LF
JOINT SEAL (MR 1")	586 LF
JOINT SEAL (MR 2")	291 LF



PARK BOULEVARD UNDERCROSSING

Br No. 33-0315R, Ala, ROUTE 580, PM 42.67
1"=30'



LAKESHORE PARK UNDERCROSSING

Br No. 33-0131, Ala, ROUTE 580, PM 43.48
1"=40'

1-23-15
 DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE Varies
ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 9

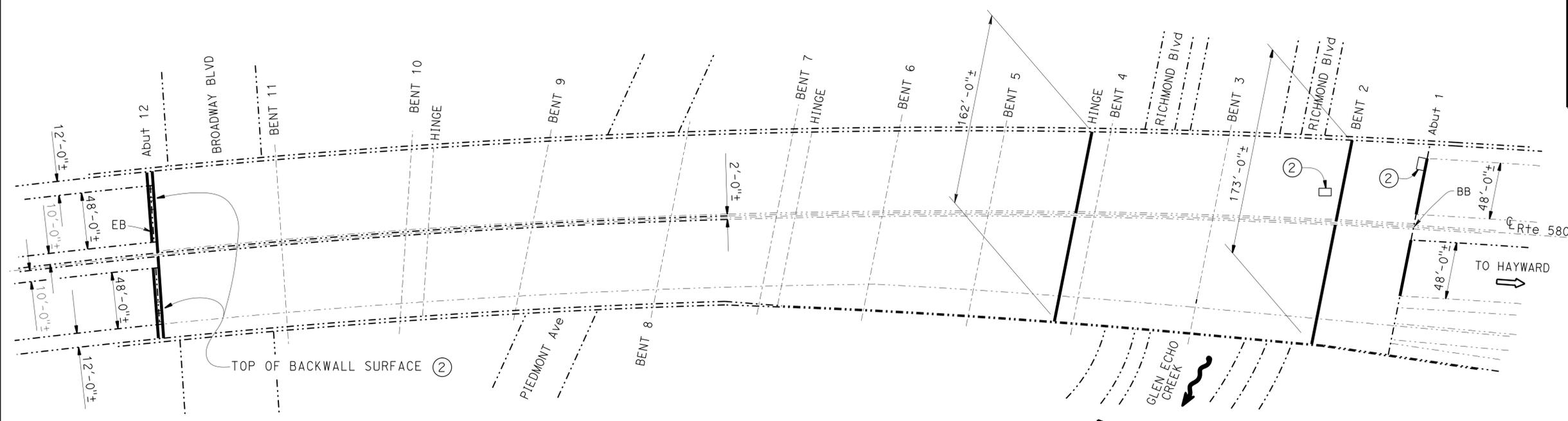
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	47	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE

3-2-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA



BROADWAY-RICHMOND BOULEVARD UNDERCROSSING

Br No. 33-0285, Ala, ROUTE 580, PM 44.51
1"=50'

QUANTITIES

BROADWAY-RICHMOND BLVD UNDERCROSSING	BRIDGE NO 33-0285
RAPID SETTING CONCRETE (PATCH)	15 CF
REMOVE UNSOUND CONCRETE	15 CF
CLEAN EXPANSION JOINT	690 LF
JOINT SEAL (MR 1/2")	216 LF
JOINT SEAL (MR 1")	141 LF
JOINT SEAL (MR 1 1/2")	333 LF

NOTES: (APPLY TO THIS SHEET ONLY)



Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Prior to treating bridge deck, remove unsound concrete and place rapid setting concrete (patch). For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.



Indicates limits of remove 1/4" chip seal.



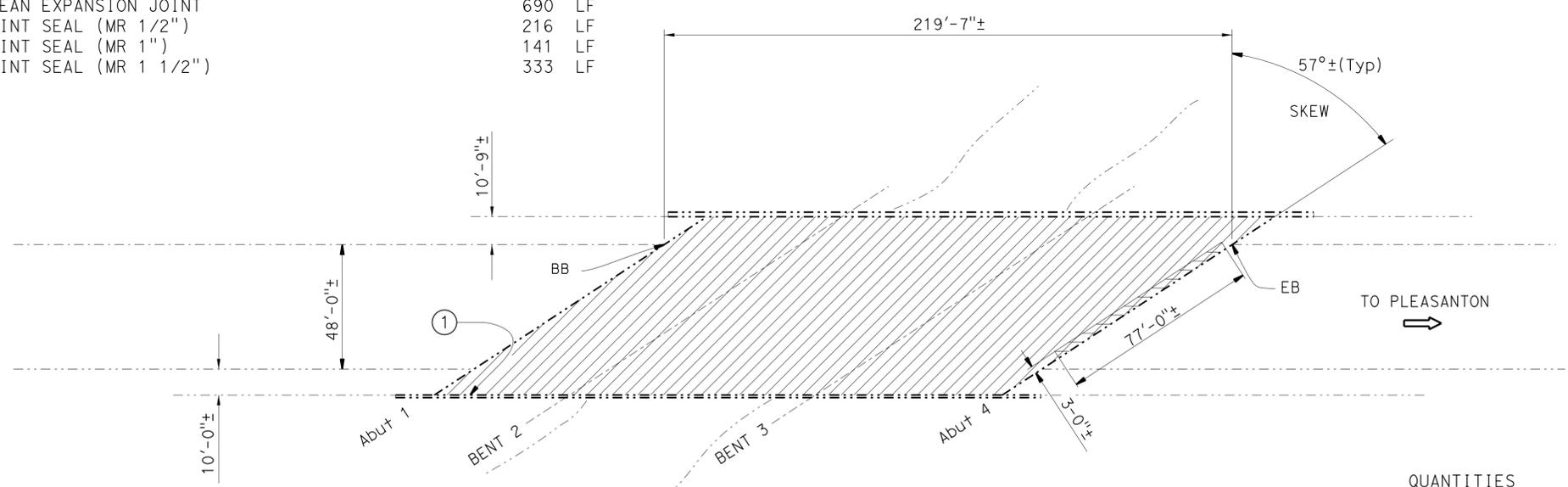
Indicates limits of clean expansion joint and install joint seal.



① Clean concrete surface and paint Bridge Name, Bridge Number and PM.



② Indicates approximate location of remove unsound concrete and place rapid setting concrete (patch). For details see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.



SOUTH DWR UNDERCROSSING

Br No. 33-0438R, Ala, ROUTE 680, PM M0.77
1"=30'

QUANTITIES

SOUTH DWR UNDERCROSSING	BRIDGE NO 33-0438R
RAPID SETTING CONCRETE (PATCH)	57 CF
REMOVE UNSOUND CONCRETE	57 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	15,096 SQFT
TREAT BRIDGE DECK	15,096 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	168 GAL
REMOVE CHIP SEAL	231 SQFT
PAINT BRIDGE IDENTIFICATION	1 EA

1-23-15
 DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT	BY DAVID KISH
SPECIFICATIONS	BY SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 10

USERNAME => s123043 DATE PLOTTED => 13-MAR-2015 TIME PLOTTED => 13:05

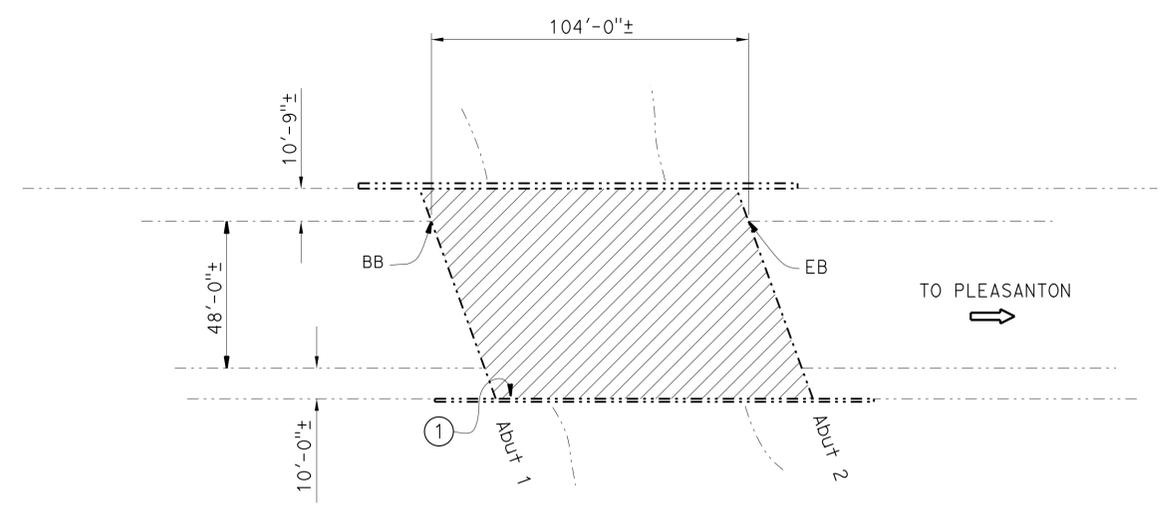
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	48	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE

3-2-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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NORTH DWR UNDERCROSSING

Br No. 33-0439R, Ala, ROUTE 680, PM M1.47
1"=30'

QUANTITIES

NORTH DWR UNDERCROSSING	BRIDGE NO 33-0439R
RAPID SETTING CONCRETE (PATCH)	36 CF
REMOVE UNSOUND CONCRETE	36 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,150 SQFT
TREAT BRIDGE DECK	7,150 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	79 GAL
PAINT BRIDGE IDENTIFICATION	1 EA

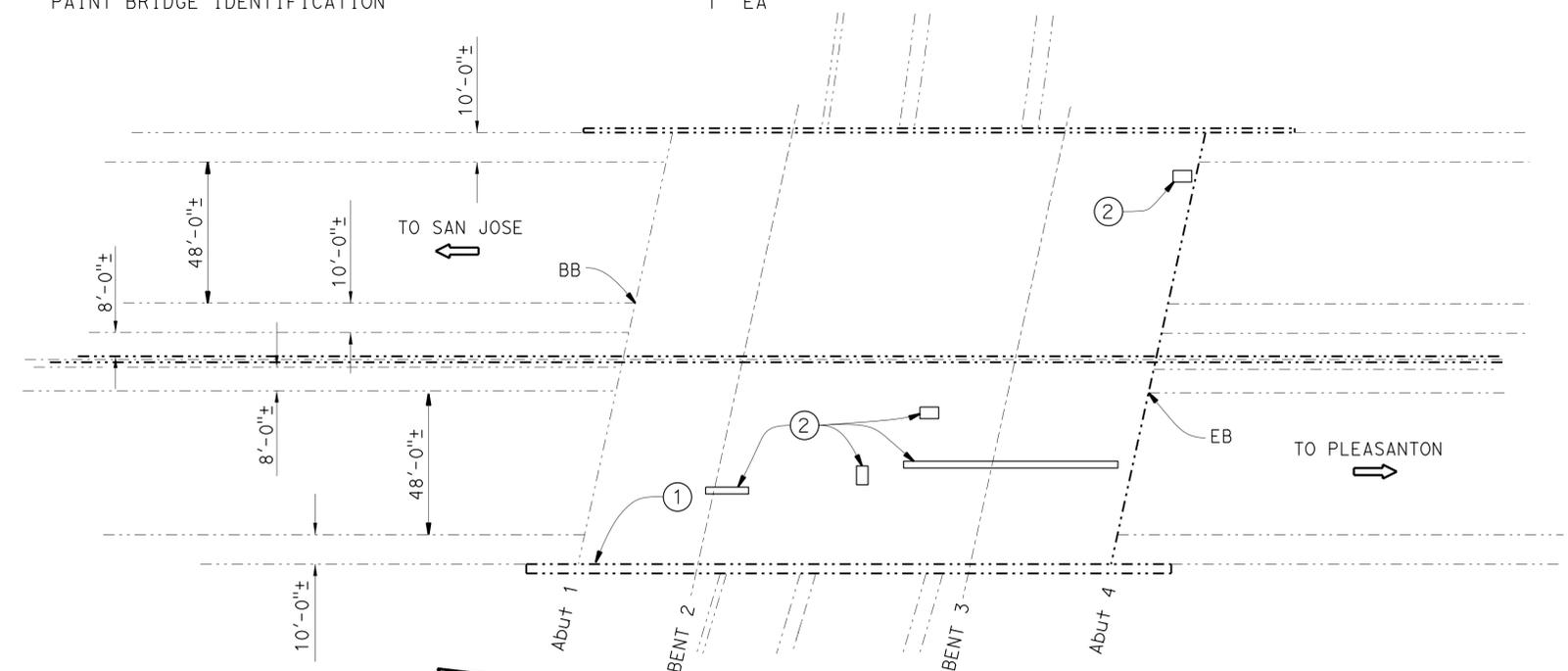
NOTES: (APPLY TO THIS SHEET ONLY)



Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Prior to treating bridge deck, remove unsound concrete and place rapid setting concrete (patch). For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.

① Clean concrete surface and paint Bridge Name, Bridge Number and PM.

② Indicates approximate location of remove unsound concrete and place rapid setting concrete (patch). For details see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.



MISSION SAN JOSE SEPARATION

Br No. 33-0294, Ala, ROUTE 680, PM R6.38
1"=30'

QUANTITIES

MISSION SAN JOSE SEPARATION	BRIDGE NO 33-0294
RAPID SETTING CONCRETE (PATCH)	22 CF
REMOVE UNSOUND CONCRETE	22 CF
PAINT BRIDGE IDENTIFICATION	1 EA

Matthew W. Lee 1-23-15
DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY SIRISHA NELAPATLA
				CHECKED TIM CAMPBELL
				PLANS AND SPECS COMPARED SIRISHA NELAPATLA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	49	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE

3-2-15
 PLANS APPROVAL DATE

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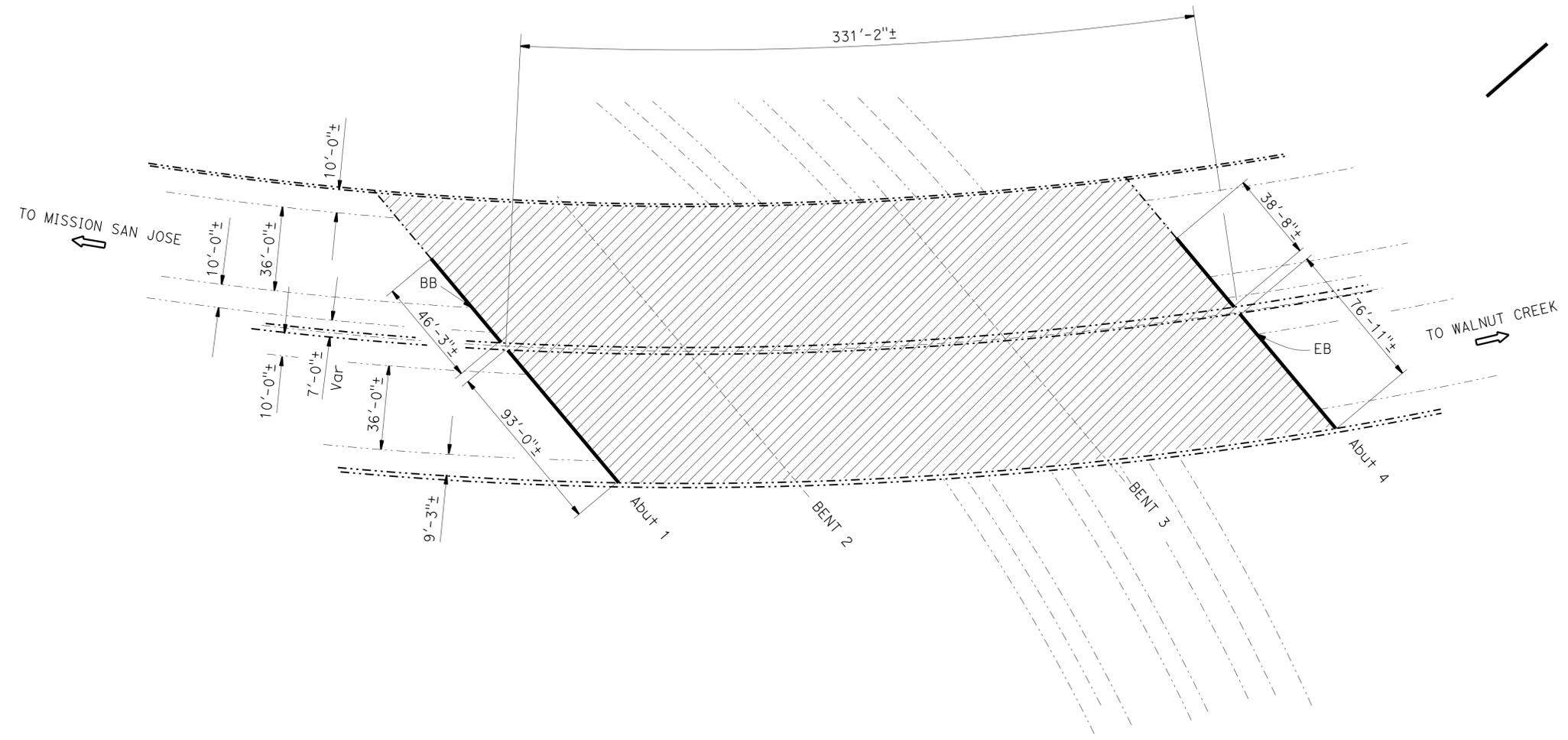
NOTES: (APPLY TO THIS SHEET ONLY)



Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Prior to treating bridge deck, remove unsound concrete and place rapid setting concrete (patch). For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.



Indicates limits of clean expansion joint and install joint seal.



SCOTTS CORNER SEPARATION 680/84

Br No. 33-0352, Ala, ROUTE 680, PM R11.81
1"=30'

QUANTITIES

SCOTTS CORNER SEPARATION 680/84	BRIDGE NO 33-0352
RAPID SETTING CONCRETE (PATCH)	144 CF
REMOVE UNSOUND CONCRETE	144 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	38,499 SQFT
TREAT BRIDGE DECK	38,499 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	428 GAL
CLEAN EXPANSION JOINT	255 LF
JOINT SEAL (MR 1/2")	255 LF

Matthew W. Lee 1-23-15
DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY SIRISHA NELAPATLA
				PLANS AND SPECS COMPARED SIRISHA NELAPATLA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 12

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
PROJECT NUMBER & PHASE: 0413000284

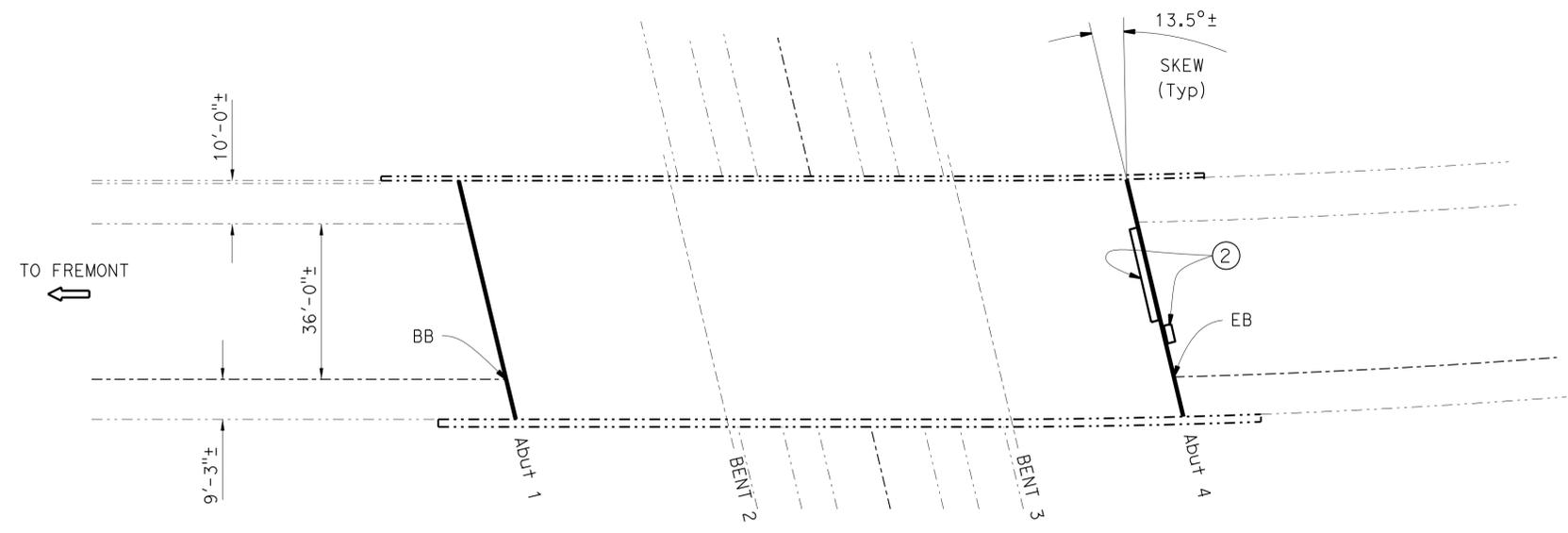
CONTRACT NO.: 04-4H8301

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
10-22-14, 5-27-14, 1-27-14, 8-25-14	12	25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	50	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE
 REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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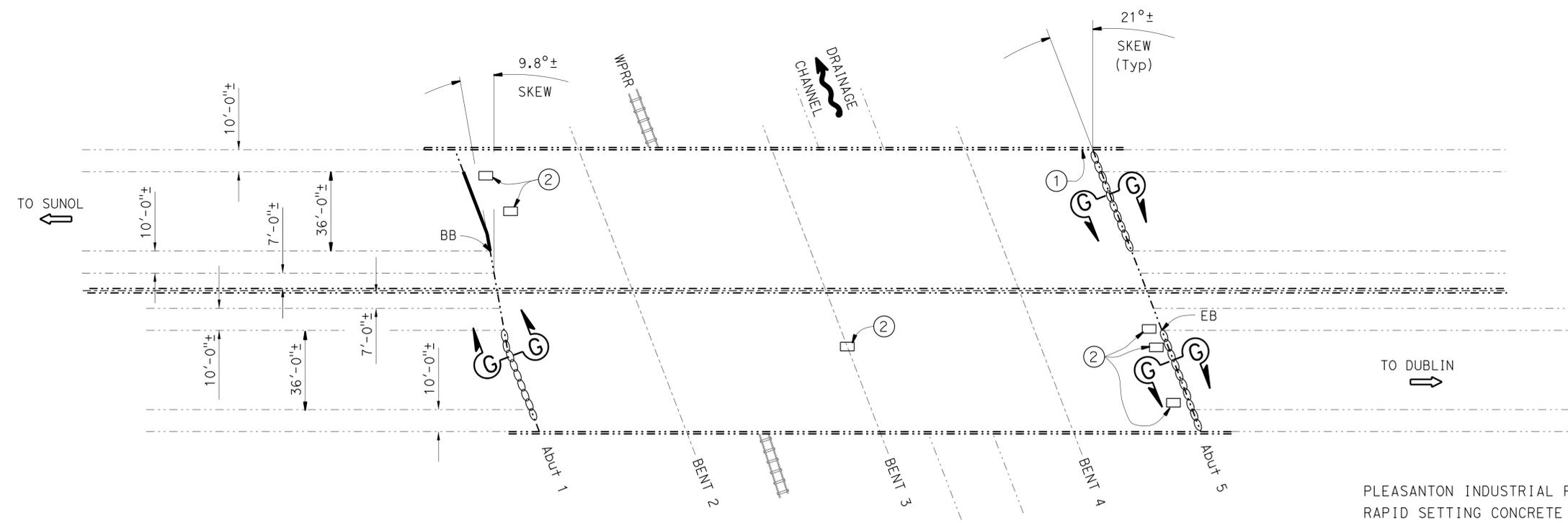
QUANTITIES

BRIDGE NO 33-0386L	
KOOPMAN ROAD UNDERCROSSING	
RAPID SETTING CONCRETE (PATCH)	9 CF
REMOVE UNSOUND CONCRETE	9 CF
CLEAN EXPANSION JOINT	114 LF
JOINT SEAL (MR 1")	57 LF
JOINT SEAL (MR 1 1/2")	57 LF

KOOPMAN ROAD UNDERCROSSING

Br No. 33-0386L, Ala, ROUTE 680, PM R12.44
1"=20'

- NOTES: (APPLY TO THIS SHEET ONLY)**
- Indicates limits of clean expansion joint and install joint seal.
 - Indicates limits of reconstruct existing joint and install joint seal. For details, see "SECTION G-G" on "JOINT SEAL DETAILS NO. 7" sheet.
 - ① Clean concrete surface and paint Bridge Name, Bridge Number and PM.
 - ② Indicates approximate location of remove unsound concrete and place rapid setting concrete (patch). For details see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.



QUANTITIES

BRIDGE NO 33-0380	
PLEASANTON INDUSTRIAL PARK OVERHEAD	
RAPID SETTING CONCRETE (PATCH)	3 CF
REMOVE UNSOUND CONCRETE	3 CF
BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	3 CY
PAINT BRIDGE IDENTIFICATION	1 EA
CLEAN EXPANSION JOINT	39 LF
JOINT SEAL (MR 1")	137 LF
JOINT SEAL (MR 1 1/2")	39 LF

PLEASANTON INDUSTRIAL PARK OVERHEAD

Br No. 33-0380, Ala, ROUTE 680, PM R15.89
1"=30'

1-23-15
 DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY SIRISHA NELAPATLA
				CHECKED TIM CAMPBELL
				PLANS AND SPECS COMPARED SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

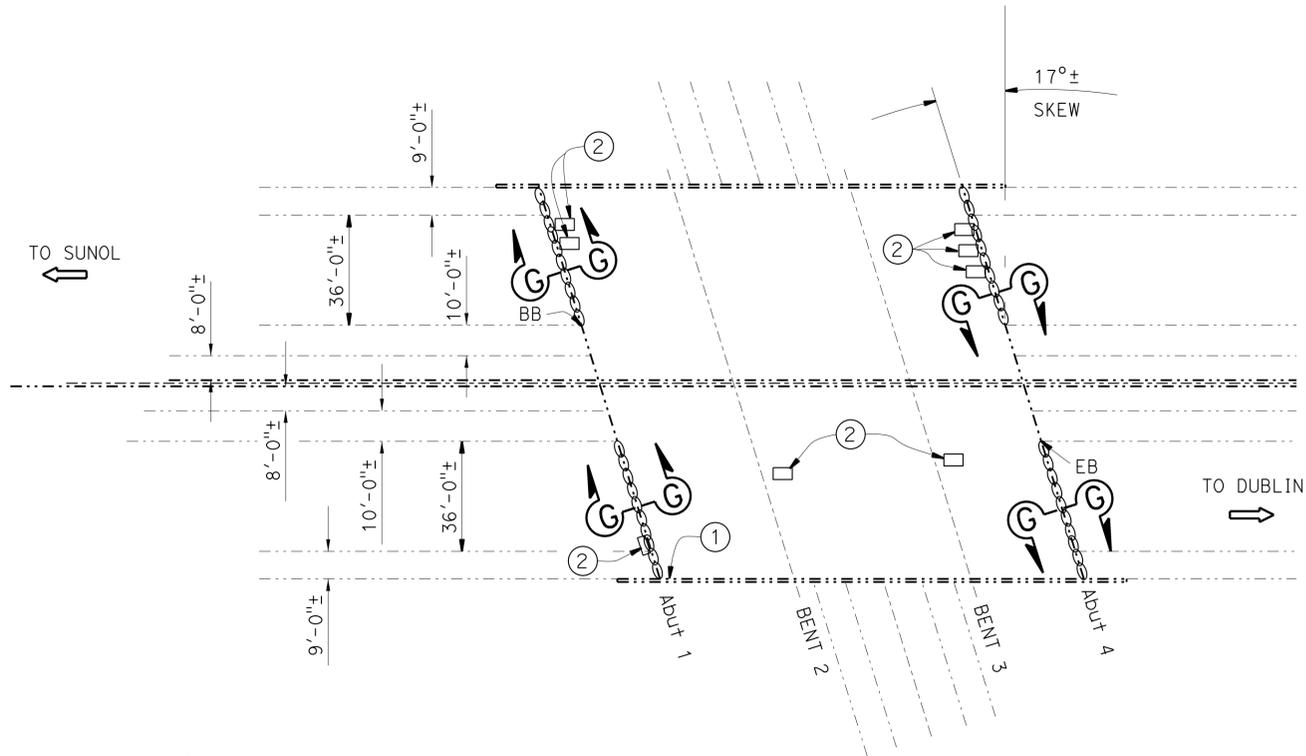
DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES
ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	51	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA



PLEASANTON INDUSTRIAL PARK STREET UNDERCROSSING

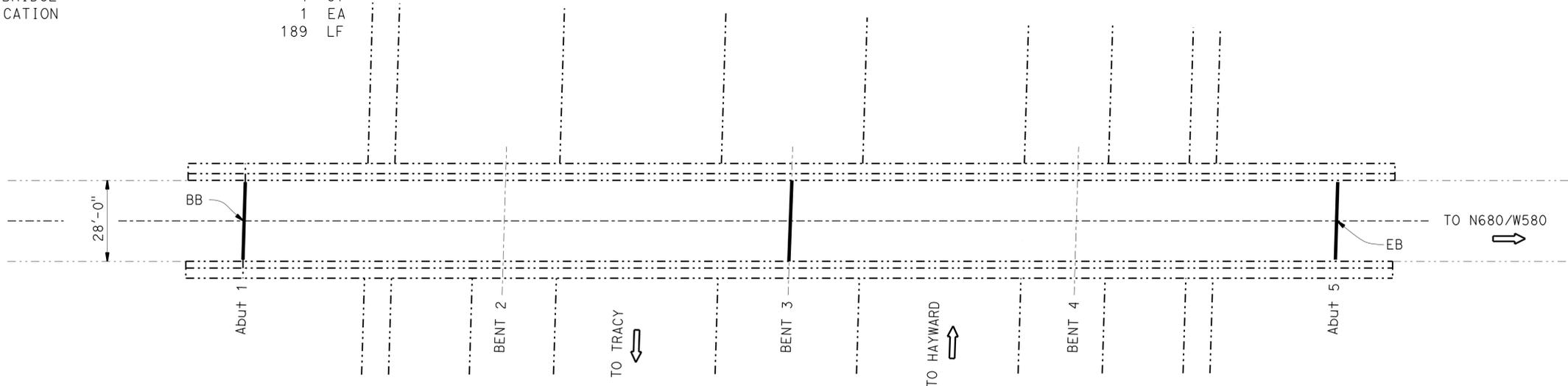
Br No. 33-0381, Ala, ROUTE 680, PM R15.98
1"=30'



QUANTITIES

PLEASANTON INDUSTRIAL PARK ST UC	BRIDGE NO 33-0381
RAPID SETTING CONCRETE (PATCH)	6 CF
REMOVE UNSOUND CONCRETE	6 CF
BRIDGE REMOVAL (PORTION), LOCATION F	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	4 CY
PAINT BRIDGE IDENTIFICATION	1 EA
JOINT SEAL (MR 1")	189 LF

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of clean expansion joint and install joint seal.
 - Indicates limits of reconstruct existing joint and install joint seal. For details, see "SECTION G-G" on "JOINT SEAL DETAILS NO. 7" sheet.
 - ① Clean concrete surface and paint Bridge Name, Bridge Number and PM.
 - ② Indicates approximate location of remove unsound concrete and place rapid setting concrete (patch). For details see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.



ROUTE 680/580 SEPARATION N680/W580 & E580/N680

Br No. 33-0371G, Ala, ROUTE 680, PM R20.03
1"=20'



QUANTITIES

ROUTE 680/580 SEPARATION	BRIDGE NO 33-0371G
CLEAN EXPANSION JOINT	86 LF
JOINT SEAL (MR 1")	57 LF
JOINT SEAL (MR 2")	29 LF

1-23-15
 DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY SIRISHA NELAPATLA
				PLANS AND SPECS COMPARED SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES
ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	52	63

<i>Arlene Frank</i>	1-23-15
REGISTERED CIVIL ENGINEER	DATE
3-2-15	
PLANS APPROVAL DATE	

ARLENE FRANK
No. C 55562
Exp. 12-31-16
CIVIL

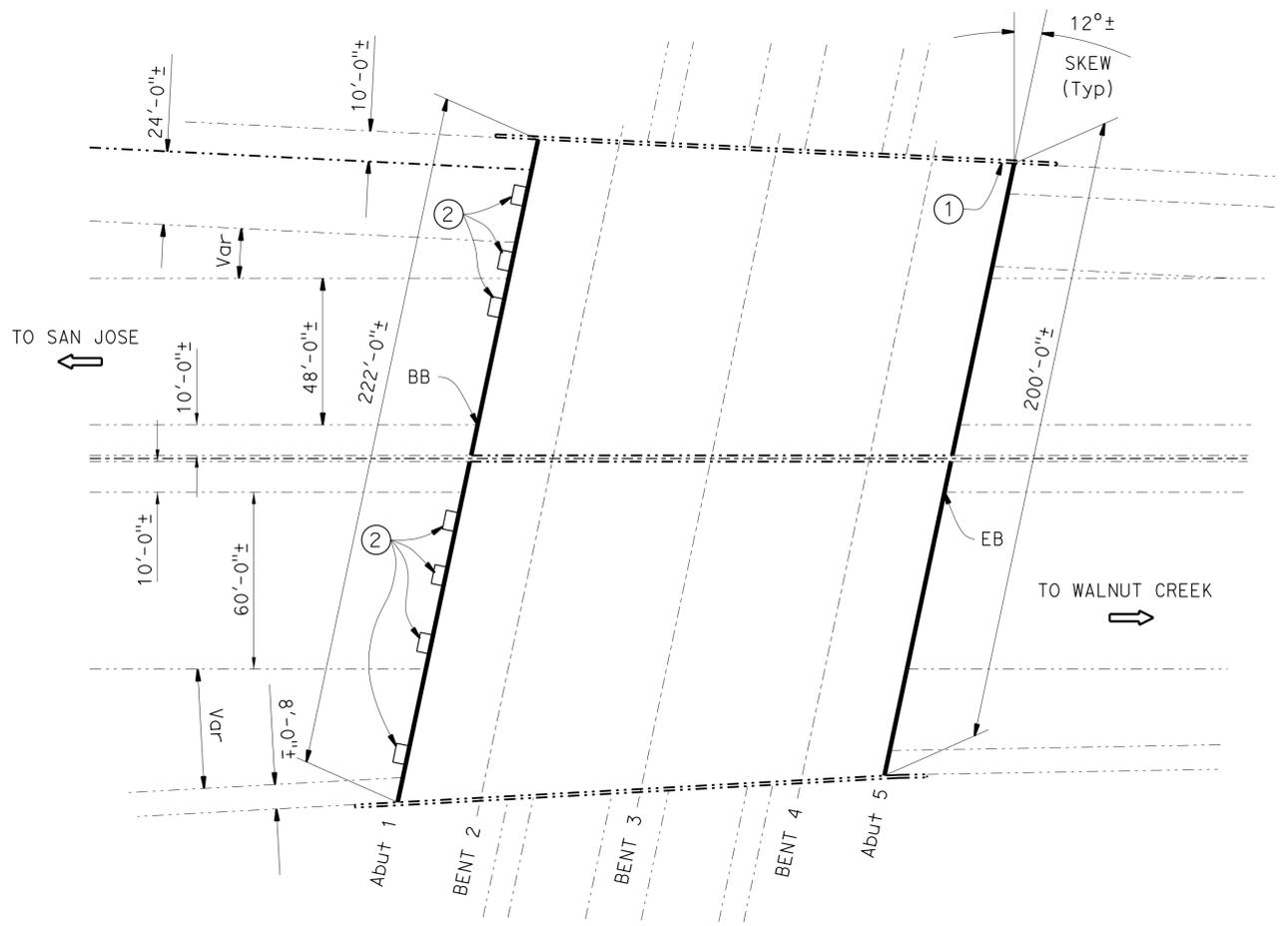
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NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of clean expansion joint and install joint seal.

① Clean concrete surface and paint Bridge Name, Bridge Number and PM.

② Indicates approximate location of remove unsound concrete and place rapid setting concrete (patch). For details see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.



DUBLIN BLVD UNDERCROSSING

Br No. 33-0373, Ala, ROUTE 680, PM R20.39
1"=30'

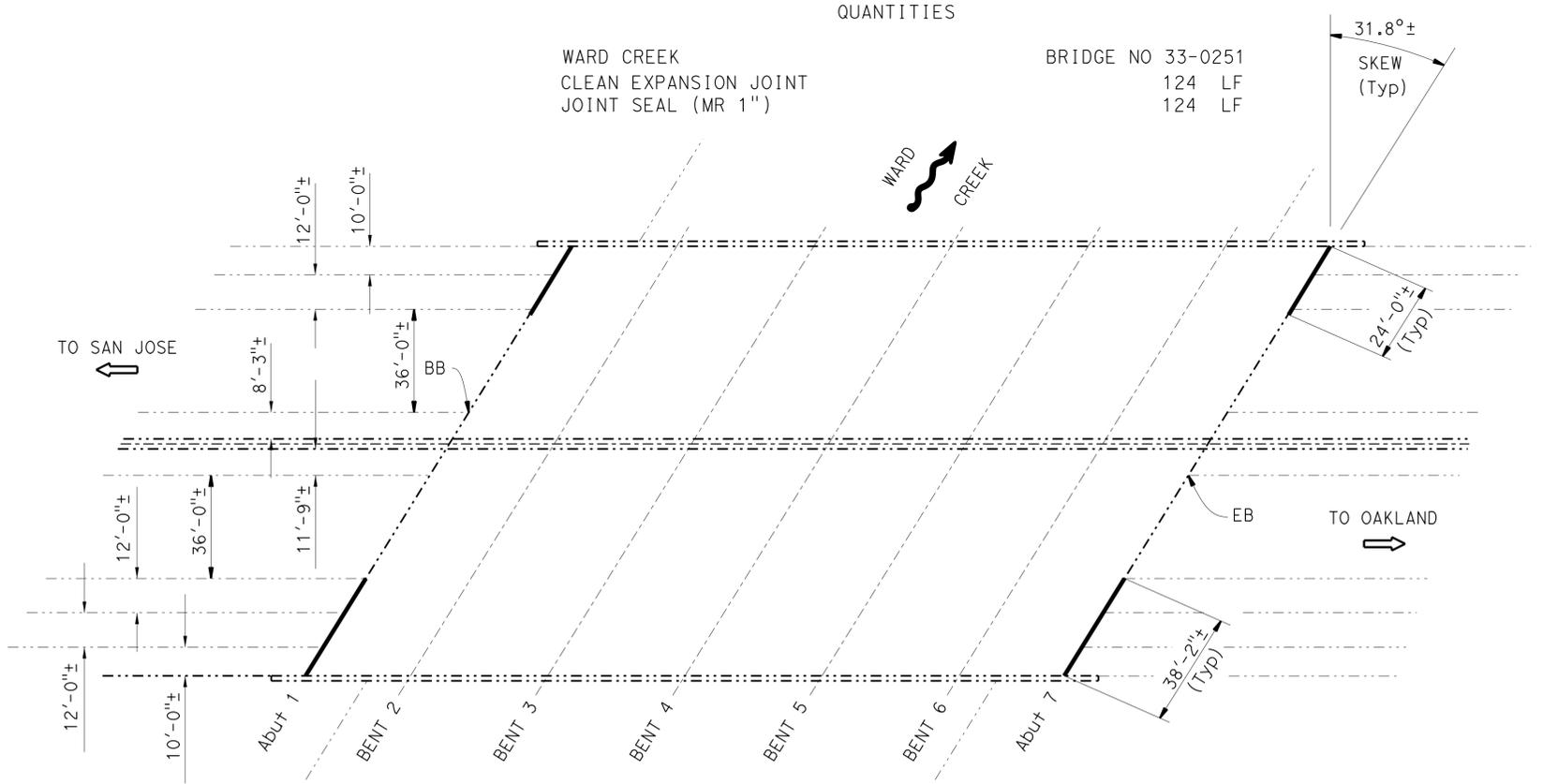
QUANTITIES

DUBLIN BLVD UNDERCROSSING	BRIDGE NO 33-0373
RAPID SETTING CONCRETE (PATCH)	2 CF
REMOVE UNSOUND CONCRETE	2 CF
PAINT BRIDGE IDENTIFICATION	1 EA
CLEAN EXPANSION JOINT	418 LF
JOINT SEAL (MR 1")	418 LF

QUANTITIES

WARD CREEK
CLEAN EXPANSION JOINT
JOINT SEAL (MR 1")

BRIDGE NO 33-0251
124 LF
124 LF



WARD CREEK

Br No. 33-0251, Ala, ROUTE 880, PM 14.18
1"=30'

Matthew Wolfe
DESIGN ENGINEER
1-23-15

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL

LOAD FACTOR DESIGN	BY LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	CHECKED TIM CAMPBELL
LAYOUT	BY DAVID KISH	CHECKED TIM CAMPBELL
SPECIFICATIONS	BY SIRISHA NELAPATLA	PLANS AND SPECS COMPARED SIRISHA NELAPATLA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

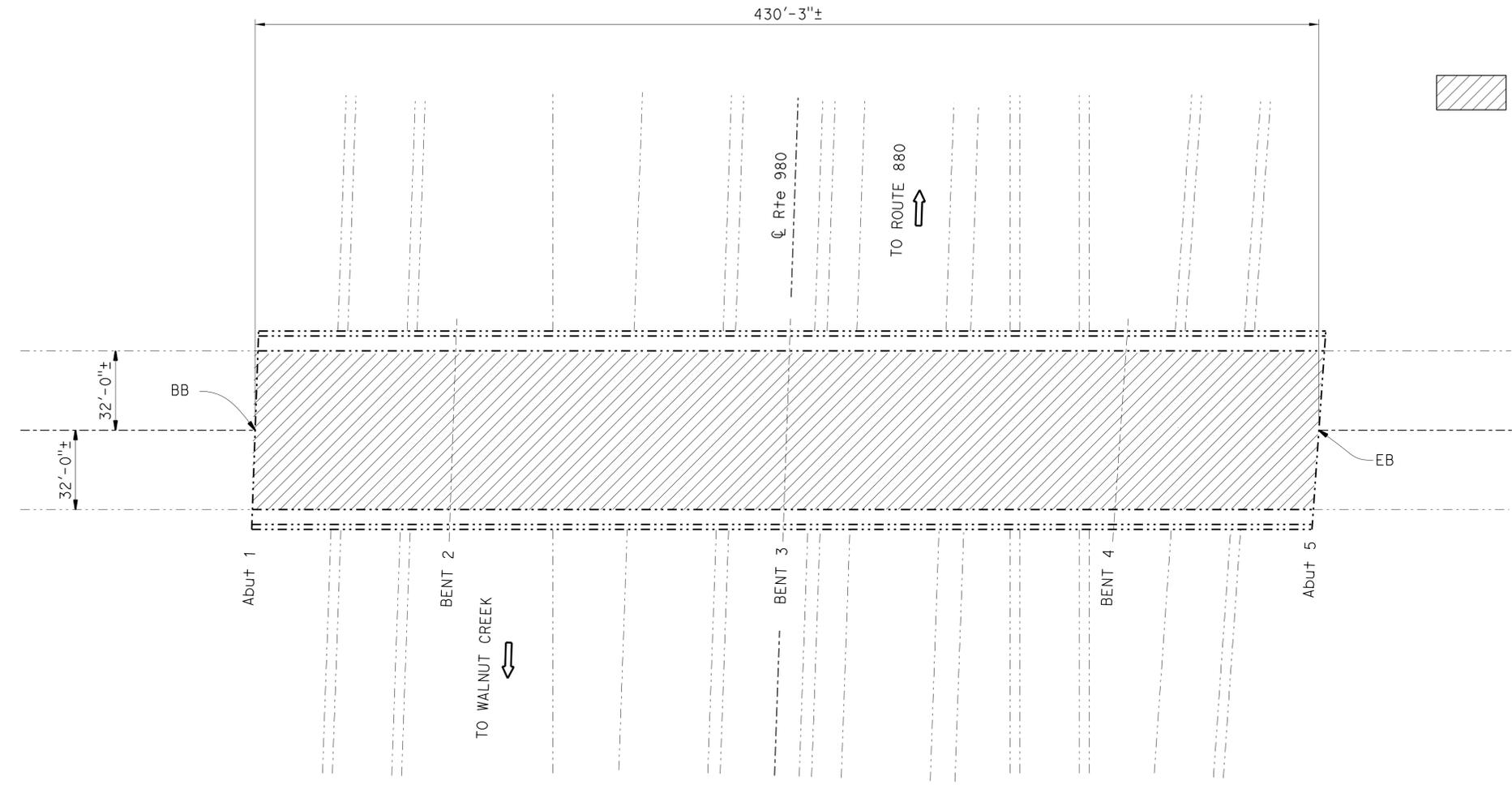
ROUTE 24, 580, 680, 880 & 980
GENERAL PLAN NO. 15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	53	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE

3-2-15
 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.



NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Prior to treating bridge deck, remove unsound concrete and place rapid setting concrete (patch). For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 3" sheet and "DECK REPAIR TABLE" on "JOINT SEAL DETAILS NO. 2" sheet.



14TH STREET OVERCROSSING

Br No. 33-0478, Ala, ROUTE 980, PM 0.70
1"=30'

QUANTITIES

14TH STREET OVERCROSSING	BRIDGE NO 33-0478
PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	69 CF
REMOVE UNSOUND CONCRETE	69 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	27,536 SQFT
TREAT BRIDGE DECK	27,536 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	306 GAL

 DESIGN ENGINEER 1-23-15	DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
	QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	ROUTE 24, 580, 680, 880 & 980
VARIOUS	GENERAL PLAN NO. 16
POST MILE	
VARIES	

USERNAME => s123043 DATE PLOTTED => 13-MAR-2015 TIME PLOTTED => 13:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	54	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE

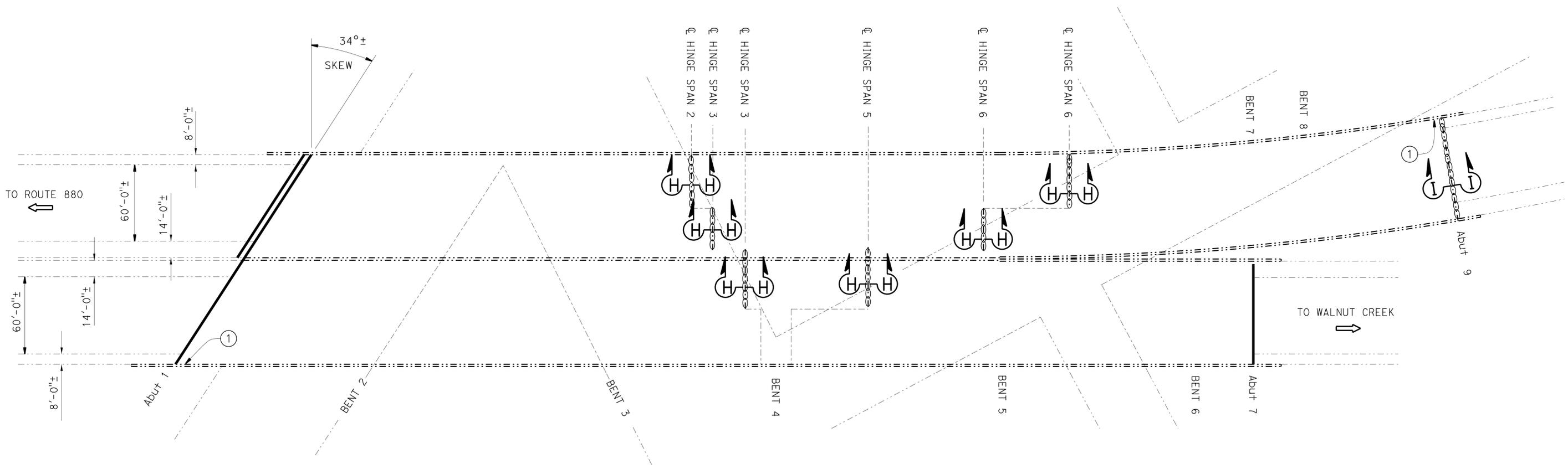
3-2-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

NOTES: (APPLY TO THIS SHEET ONLY)

-  Indicates limits of clean expansion joint and install joint seal.
- ① Clean concrete surface and paint Bridge Name, Bridge Number and PM.
-  Indicates limits of reconstruct existing joint and install joint seal. For details, see "SECTION H-H" on "JOINT SEAL DETAILS NO. 8" sheet.
- For "SECTION I-I" see "JOINT SEAL DETAILS NO. 8" sheet



QUANTITIES

SAN PABLO AVENUE UNDERCROSSING	BRIDGE NO 33-0440
BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	6 CY
PAINT BRIDGE IDENTIFICATION	2 EA
CLEAN EXPANSION JOINT	379 LF
JOINT SEAL (MR 1")	260 LF
JOINT SEAL (MR 2")	443 LF
BAR REINFORCING STEEL (BRIDGE)	1,997 LB

SAN PABLO AVENUE UNDERCROSSING

Br No. 33-0440, Ala, ROUTE 980, PM 1.11
 1"=40'



 DESIGN ENGINEER	DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL	LAYOUT	BY DAVID KISH
	QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL	SPECIFICATIONS	BY SIRISHA NELAPATLA

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.	ROUTE 24, 580, 680, 880 & 980 GENERAL PLAN NO. 17
	STRUCTURE MAINTENANCE DESIGN	VARIOUS	
		POST MILE	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	55	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE

3-2-15
 PLANS APPROVAL DATE

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JOINT SEAL TABLE

BRIDGE NUMBER	BRIDGE NAME	LOCATION	MINIMUM "MR" (in)	APPROXIMATE LENGTH (F+)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (in)	
33-0406	ALTAMONT SIDEHILL VIADUCT	Abut 1	PN	1/2	NO	11.5	
			BW	1 1/2	NO	57	
		BENT 2	PN	1/2	NO	11.5	
			EJ	1/2	NO	57	
		BENT 3	EJ	1 1/2	NO	57	
		BENT 4	EJ	1/2	NO	57	
		BENT 5	PN	1/2	NO	11.5	
			EJ	2	NO	57	
		BENT 8	EJ	2	-	57	
		BENT 11	EJ	2	-	57	
		BENT 14	PN	1/2	NO	11.5	
			EJ	2	-	57	
		BENT 16	EJ	1/2	NO	57	
		BENT 17	EJ	2	-	57	
		BENT 18	PN	1/2	NO	11.5	
			EJ	1/2	NO	57	
		Abut 19	PN	1/2	NO	11.5	
			BW	1/2	NO	57	
BENT 3-17	AL	1/2	1120.0	NO	8		
33-0121R	GREENVILLE OH	Abut 1	PN	1 1/2	NO	12	
		SPAN 4	H	1	-	23	
		SPAN 7	H	1	71.4	-	23
		SPAN 10	H	1	71.4	-	23
33-0026R	GREENVILLE ROAD UC	Abut 1	PN	1	NO	12	
		Abut 4	PN	1	NO	12	
33-0400	VASCO ROAD OC	Abut 1	BW	1 1/2	YES	6	
		Abut 5	BW	2	YES	6	
33-0203	ARROYO LAS POSITAS	Abut 1	PN	1	NO	11.5	
		Abut 4	PN	1	NO	11.5	
33-0150L	DOUGHERTY UC	Abut 1	BW	1	YES	12	
		Abut 3	BW	1	YES	12	
33-0642K	ALAMO CANAL	Abut 1	PN	1 1/2	NO	12	
		Abut 5	PN	1 1/2	NO	12	
33-0230R	SAN LORENZO CREEK UC	SPAN 6	H	3	-	40	
33-0422	CENTER STREET OC	Abut 1	PN	1 1/2	-	60	
33-0202R	CASTRO VALLEY BLVD UC	Abut 1	BW	2	YES	12	
		Abut 3	BW	2	YES	12	
33-0331	JOAQUIN AVENUE UC	Abut 1	PN	1/2	NO	12	
		Abut 2	PN	1/2	NO	12	
33-0333	DUTTON AVENUE UC	Abut 1	PN	1/2	NO	12	
		Abut 4	PN	1/2	NO	12	
33-0315R	PARK BLVD UC	Abut 1	PN	1/2	NO	12	
		Abut 4	PN	1	NO	12	
33-0131	LAKESHORE PARK UC	Abut 1	PN	1	NO	12	
		BENT 2	BW	1	YES	8	
		SPAN 4	H	2	YES	7	
		SPAN 6	H	2	YES	7	
		BENT 9	BW	1	YES	8	
Abut 10	PN	1	NO	12			

JOINT SEAL TABLE (CONTINUED)

BRIDGE NUMBER	BRIDGE NAME	LOCATION	MINIMUM "MR" (in)	APPROXIMATE LENGTH (F+)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (in)
33-0285	BROADWAY-RICHMOND BLVD UC	Abut 1	PN	1/2	NO	12
		BENT 2	BW	1 1/2	YES	7
		SPAN 4	H	1 1/2	YES	7
			Abut 12	BW	1	YES
33-0352	SCOTTS CORNER SEPARATION	Abut 1	PN	1/2	NO	12
		Abut 4	PN	1/2	NO	12
33-0386L	KOOPMAN ROAD UC	Abut 1	PN	1 1/2	NO	12
		Abut 4	PN	1	NO	12
33-0380	PLEASANTON INDUSTRIAL PARK OH	Abut 1 SB	PN	1 1/2	NO	12
		Abut 1 NB	PN	1	-	52
		Abut 5	PN	1	-	52
33-0381	PLEASANTON INDUSTRIAL PARK STREET UC	Abut 1	PN	1	-	52
		Abut 4	PN	1	-	52
33-0371G	ROUTE 680/580 SEPARATION N680/308	Abut 1	BW	1	NO	55
		BENT 3	EJ	2	NO	28
		Abut 5	BW	1	NO	55
33-0373	DUBLIN BLVD UC	Abut 1	PN	1	NO	12
		Abut 5	PN	1	NO	12
33-0251	WARD CREEK	Abut 1	PN	1	NO	12
		Abut 7	PN	1	NO	12
		Abut 1 SB	PN	1	NO	11.5
33-0440	SAN PABLO AVENUE UC	Abut 1	BW	2	-	78
		SPAN 2 WB	H	2	-	8
		SPAN 3 WB/EB	H	2	-	8
		SPAN 5 EB	H	2	-	8
		SPAN 6 WB	H	2	-	8
		Abut 7	BW	1	NO	78
		Abut 9	BW	1	-	78
33-0585	TASSAJARA ROAD-SANTA RITA ROAD OC	Abut 1	BW	1	YES	12
		Abut 3	BW	1	YES	12

LEGEND:

BW - Backwall
 EJ - Expansion Joint
 H - Hinge
 PN - Paving Notch
 AL - Longitudinal Joint

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	ROUTE 24, 580, 680, 880 & 980
VARIOUS	
POST MILE	
JOINT SEAL DETAILS NO. 1	

DECK REPAIR TABLE (REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE PATCH)					
BRIDGE NUMBER	BRIDGE NAME	LOCATION	DIMENSION (INCHES)	AREA (ft ²)	APPROXIMATE AREA DAMAGED (PERCENT)
33-012IR	GREENVILLE OVERHEAD	ABUTMENT I, LANE 1	60 x 14	5.9	
		SPAN 4, LANE 3, 4 & SHOULDER AT DEFLECTION JOINT	279 X 42	81.6	
		SPAN 10, LANE 4	12 x 39	3.3	
		ABUTMENT II, RIGHT BARRIER RAIL	30 x 12	2.5	
33-0026R	GREENVILLE ROAD UC	ABUTMENT II, LANE 1	12 x 14	1.2	
		ABUTMENT I, LANE 4	36 X 18	4.5	
		ABUTMENT I, LANE 4	36 X 18	4.5	
		SPAN 3, LANE 4	432 x 97	291.0	
33-0285	BROADWAY-RICHMOND Blvd UC	SPAN 3, LANE 3	252 X 54	94.5	
		ABUTMENT 4, LANE 3	60 X 27	11.3	
		ABUTMENT 1WB, LANE 4	60 X 36	15.0	
		SPAN 2 WB, LANE 2	72 X 57	28.5	
		ABUTMENT 12 EB, LANE 5 BACKWALL	12 x 30	2.5	
		ABUTMENT 12 EB, LANE 5 APPROACH	72 x 8	4.0	
		ABUTMENT 12 EB, LANE 3 BACKWALL	12 x 30	2.5	
		ABUTMENT 12 EB, LANE 3 BACKWALL	12 x 12	1.0	
		ABUTMENT 12 WB, LANE 4 BACKWALL	12 x 84	7.0	
		33-0294	MISSION SAN JOSE SEPARATION	SPAN 2 NB, LANE 1	18 x 12
SPAN 2 NB, LANE 2	864 x 10			60.0	
SPAN 2 NB, LANE 3	14 X 8			0.8	
SPAN 2 NB, LANE 4	168 x 8			9.3	
ABUTMENT 4 SB, LANE 4	22 X 28			4.3	
33-0386L	KOOPMAN ROAD UC	ABUTMENT 4, LANE 2 & 3	276 x 16	30.7	
		ABUTMENT 4, LANE 1 APPROACH	54 X 14	5.3	
33-0380	PLEASANTON INDUSTRIAL PARK OH	ABUTMENT 1SB, LANE 3	48 x 9	3.0	
		SPAN 1SB, LANE 2	48 x 9	3.0	
		BENT 3 NB, LANE 1	20 x 13	1.8	
		ABUTMENT 5 NB, LANE 1	12 x 8	0.7	
		ABUTMENT 5 NB, LANE 1	16 x 8	0.9	
33-0381	PLEASANTON INDUSTRIAL PARK STREET UC	ABUTMENT 5 NB, LANE 3	30 x 12	2.5	
		ABUTMENT 1SB, LANE 3	51 x 12	4.3	
		ABUTMENT 1SB, LANE 2	39 x 12	3.3	
		ABUTMENT 1NB, LANE 3 APPROACH	72 x 12	6.0	
		BENT 2 NB, LANE 1	24 X 12	2.0	
		BENT 3 NB, LANE 1	24 x 12	2.0	
		ABUTMENT 4 SB, LANE 2	26 X 9	1.6	
		ABUTMENT 4 SB, LANE 2/3	36 x 12	3.0	
ABUTMENT 4 SB, LANE 3	26 X 9	1.6			

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	56	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE

3-2-15
 PLANS APPROVAL DATE

ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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DECK REPAIR TABLE (REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE PATCH)					
BRIDGE NUMBER	BRIDGE NAME	LOCATION	DIMENSION (INCHES)	AREA (ft ²)	APPROXIMATE AREA DAMAGED (PERCENT)
33-0373	DUBLIN Blvd UC	ABUTMENT 1SB, OFFRAMP LANE, APPROACH	30 x 6	1.3	
		ABUTMENT 1SB, APPROACH	24 x 6	1.0	
		ABUTMENT 1SB, LANE 4, APPROACH	12 x 6	0.5	
		ABUTMENT 1NB, LANE 1, APPROACH	24 x 6	1.0	
		ABUTMENT 1NB, LANE 3, APPROACH	18 x 6	0.8	
		ABUTMENT 1NB, LANE 5, APPROACH	24 x 10	1.7	
		ABUTMENT 1NB, ON-RAMP LANE, APPROACH	30 x 8	1.7	
33-0406	ALTAMONT SIDEHILL VIADUCT				3
33-0585	TASSAJARA ROAD-SANTA RITA ROAD OC				1
33-0642K	ALAMO CANAL				1
33-0233R	CROW CANYON ROAD UC				1
33-0422	CENTER STREET OC				1
33-0193R	REDWOOD ROAD UC				1
33-0438R	SOUTH D.W.R. UC				1.5
33-0439R	NORTH D.W.R. UC				2
33-0352	SCOTTS CORNER SEPARATION 680/84				1.5
33-0478	14TH STREET OC				1

Note: For details see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS No. 3" sheet.

REPAIR SPALLED SURFACE AREA TABLE				
BRIDGE NUMBER	BRIDGE NAME	LOCATION	DIMENSION (INCHES)	AREA (ft ²)
33-0406	ALTAMONT SIDEHILL VIADUCT	BENT 17, RIGHT BARRIER RAIL	12 x 8	0.7
		BENT 3, SPAN 3, BAY 4, SOFFIT	24 x 18	3.0
33-0131	LAKESHORE PARK UC	SPAN 4, LEFT EXTERIOR GIRDER AT HINGE	12 x 6	0.5
		SPAN 4, LEFT EXTERIOR GIRDER AT HINGE	12 x 6	0.5
33-0305F	W24-E & W580 CONNECTOR OC	SPAN SE 78, SOFFIT ACCESS OPENING	12 x 3	0.3
		SOFFIT, SE 78 / SW SPLIT	48 x 4	1.3
		SOFFIT, SE 78 / SW SPLIT	48 x 4	1.3
		SOFFIT, SE 78 / SW SPLIT	48 x 4	1.3

Note: For details see "REPAIR SPALLED SURFACE AREA DETAIL" on "JOINT SEAL DETAILS No. 3" sheet.

DESIGN BY A. FRANK	CHECKED TIM CAMPBELL	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. VARIOUS	ROUTE 24, 580, 680, 880 & 980 JOINT SEAL DETAILS NO. 2
DETAILS BY DAVID KISH	CHECKED TIM CAMPBELL		POST MILE VARIES	
QUANTITIES BY A. FRANK	CHECKED TIM CAMPBELL		VARIES	

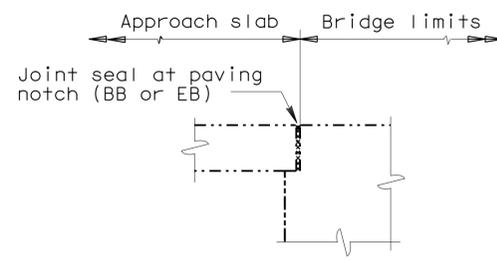
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3488 PROJECT NUMBER & PHASE: 0413000284 CONTRACT NO.: 04-4H8301 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES SHEET OF 19 26

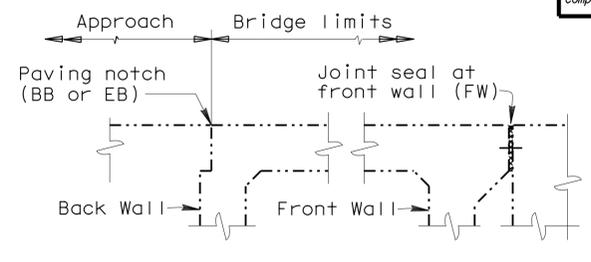
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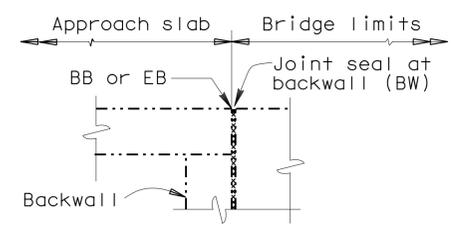
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	57	63
<i>Arlene Frank</i> REGISTERED CIVIL ENGINEER			1-23-15 DATE		
3-2-15 PLANS APPROVAL DATE					
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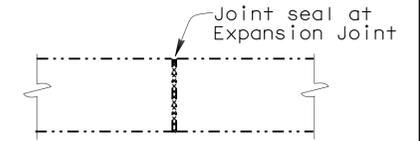
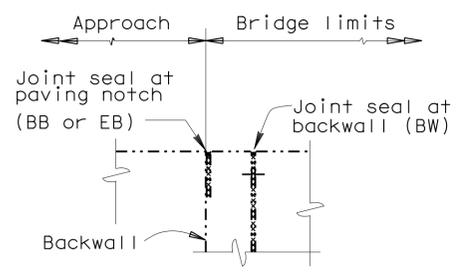
DIAPHRAGM ABUTMENT



BIN TYPE ABUTMENT

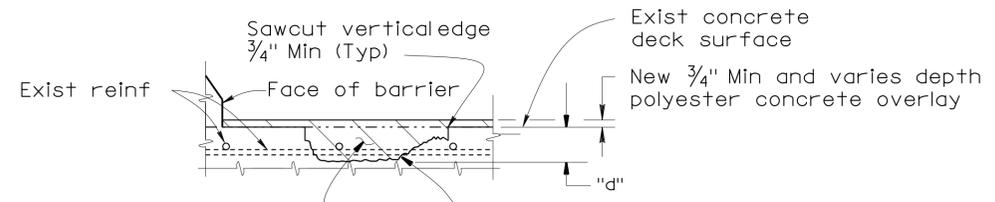


ABUTMENT WITH BACKWALL



EXPANSION JOINT

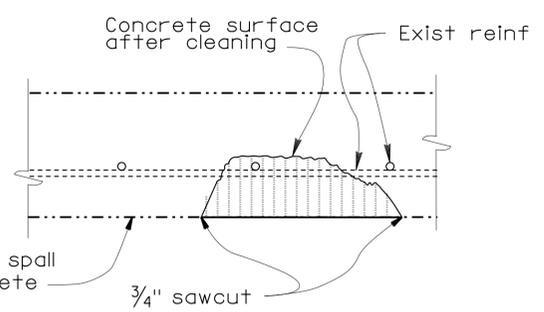
JOINT SEAL LOCATION



DECK REPAIR DETAIL-OVERLAY

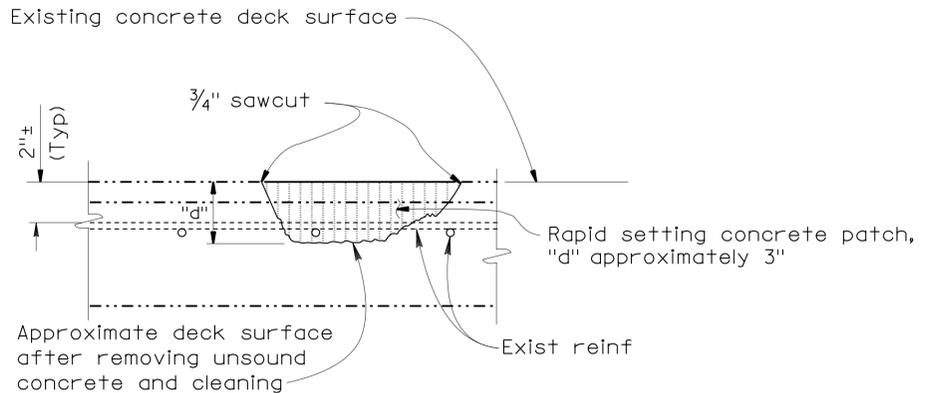
Note: Reinforcement may be encountered during deck concrete removal.

Rapid setting concrete patch, if "d" > 3" or polyester concrete if "d" ≤ 3".
 Approx deck surface after removing unsound concrete and cleaning



REPAIR SPALLED SURFACE AREA

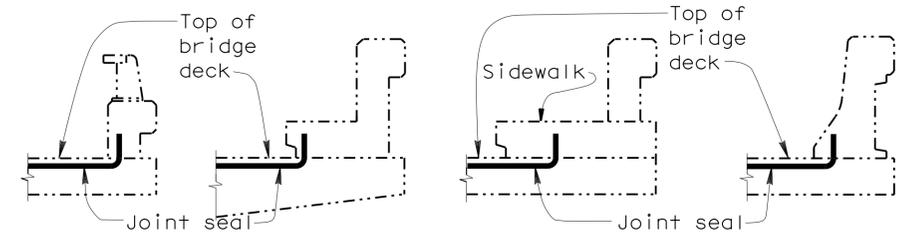
NO SCALE



DECK REPAIR DETAIL

NO SCALE

Note: Reinforcement may be encountered during deck concrete removal.



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

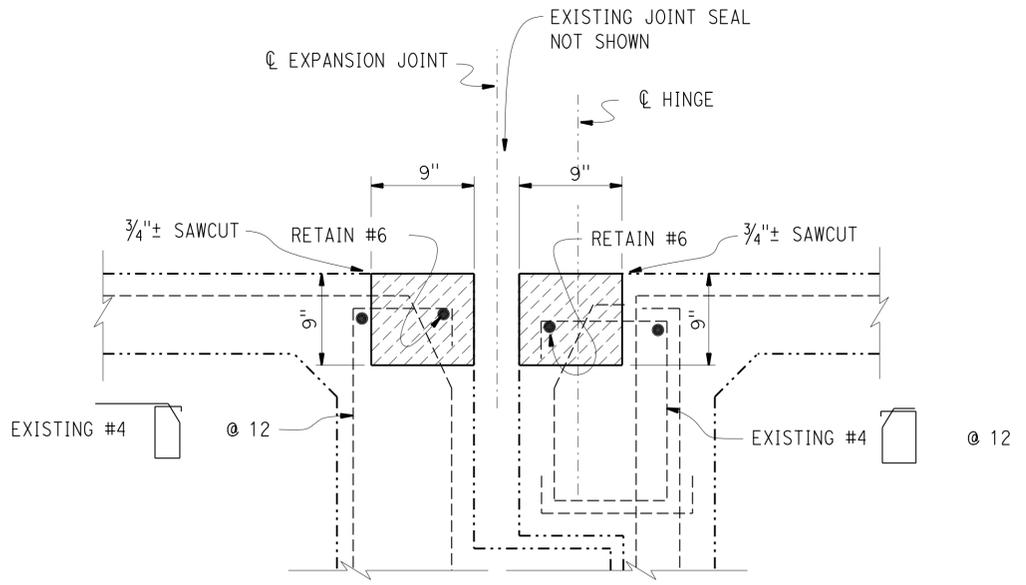
Notes: Details shown for illustration purposes only. For use only where deck joint matches the sidewalk, curb or barrier rail joint.

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 24, 580, 680, 880 & 980
	DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL			VARIOUS	
	QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL			VARIES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					UNIT: 3488 PROJECT NUMBER & PHASE: 0413000284	CONTRACT NO.: 04-4H8301	DISREGARD PRINTS BEARING EARLIER REVISION DATES
					0 1 2 3	REVISION DATES	SHEET 20 OF 26

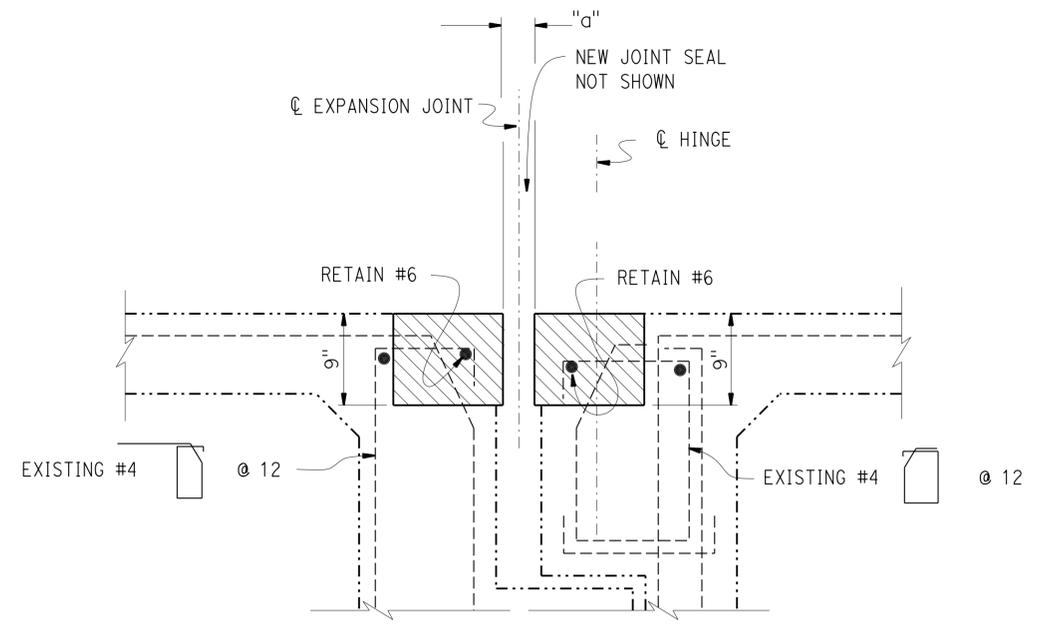
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680,880,980	Var	58	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
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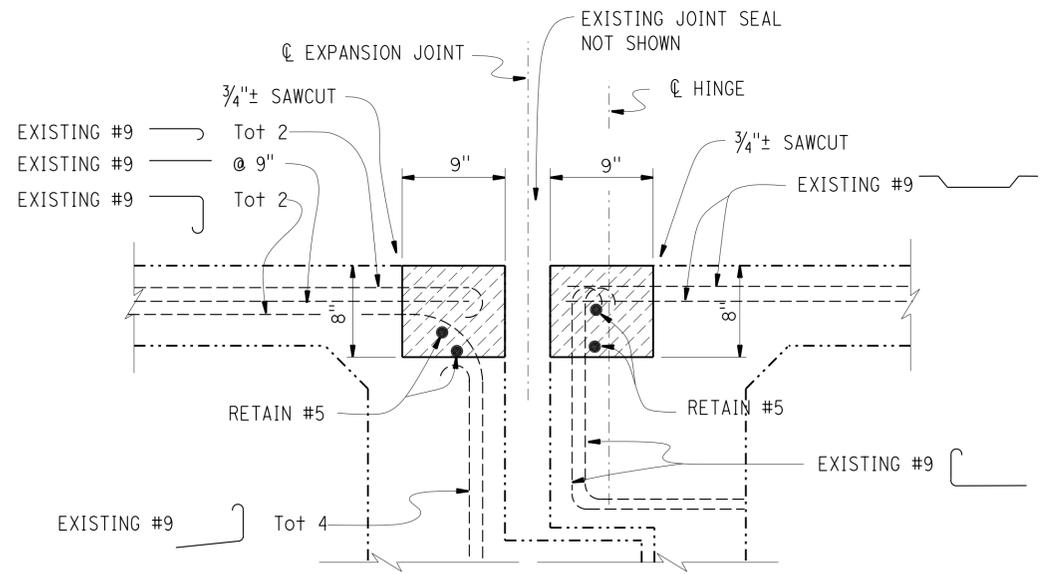
EXISTING



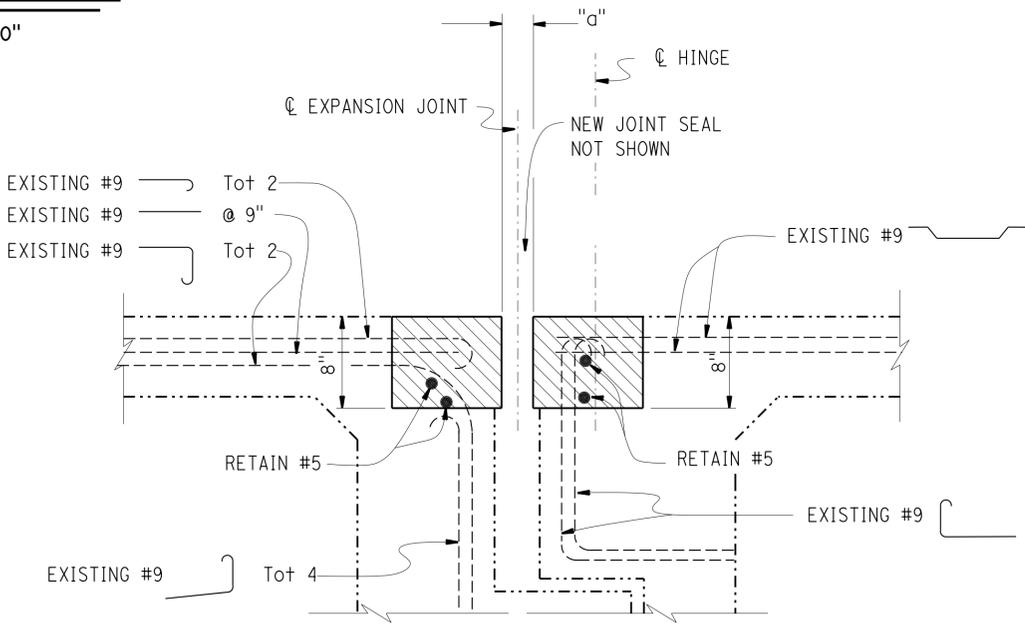
RECONSTRUCTION

SECTION B-B

1 1/2" = 1'-0"



EXISTING



RECONSTRUCTION

SECTION C-C

NOTE: DETAIL AT HINGE 4, 7 AND 10

GREENVILLE OVERHEAD

1 1/2" = 1'-0"

The following note applies to **JOINT SEAL TYPE A**:
 Install Type A joint seal 3" up into curb or rail on the low side of the deck where joint matches curb or rail joint. For details not shown see **B6-21**

- 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 must 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**

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of bridge removal (portion)

"a" For "a" see STANDARD PLAN B6-21

Indicates limits of structural concrete, bridge.

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 24, 580, 680, 880 & 980			
	DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL			VARIOUS				
	QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL			VARIES				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3488	PROJECT NUMBER & PHASE: 0413000284	CONTRACT NO.: 04-4H8301	DISREGARD PRINTS BEARING EARLIER REVISION DATES			
				0	1	2	3	REVISION DATES	SHEET 21	OF 26

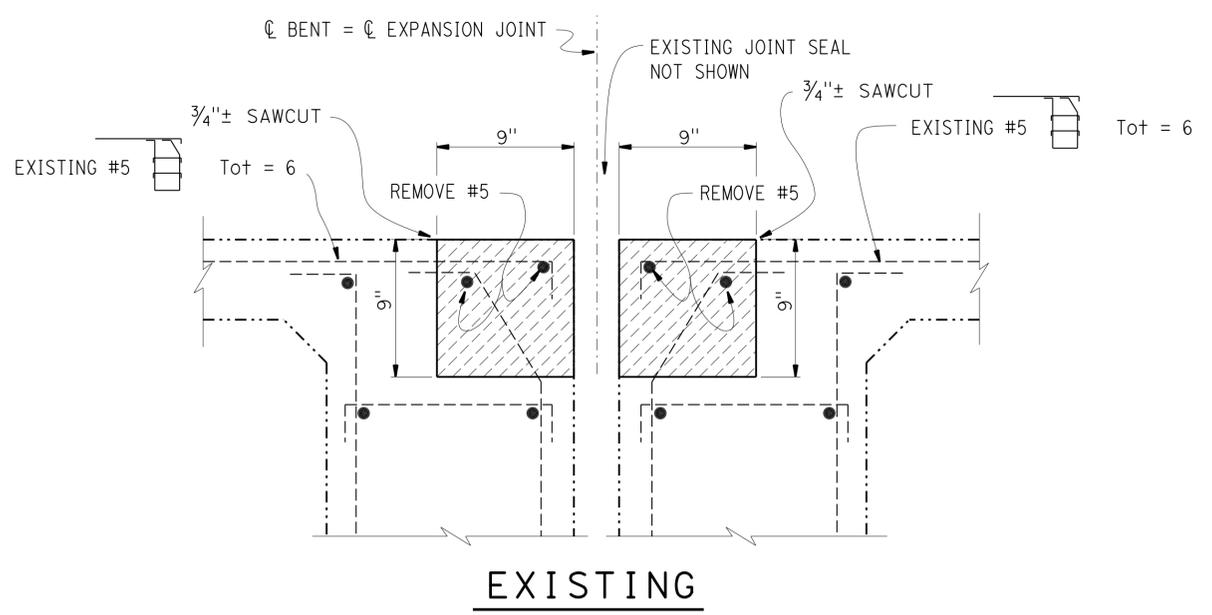
USERNAME => s123043 DATE PLOTTED => 13-MAR-2015 TIME PLOTTED => 11:30:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	59	63

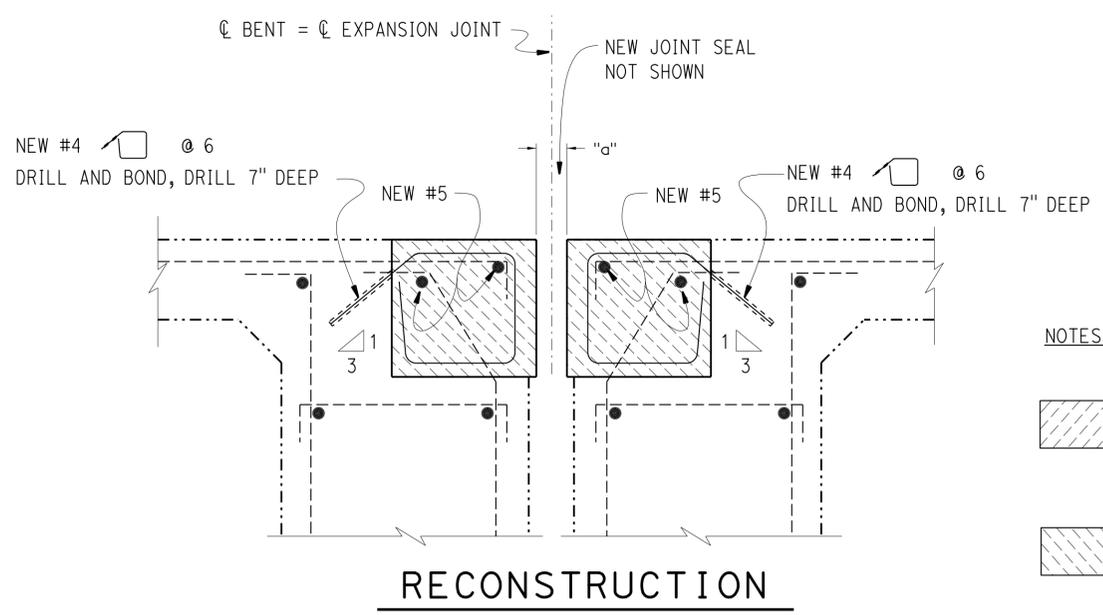
Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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EXISTING



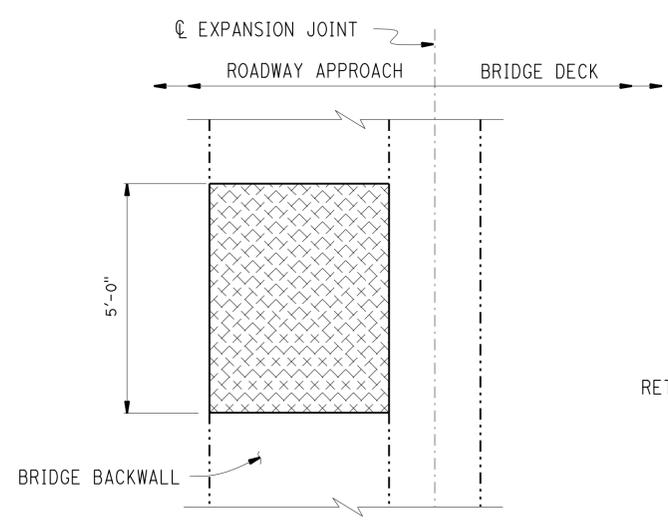
RECONSTRUCTION

DETAIL AT BENT

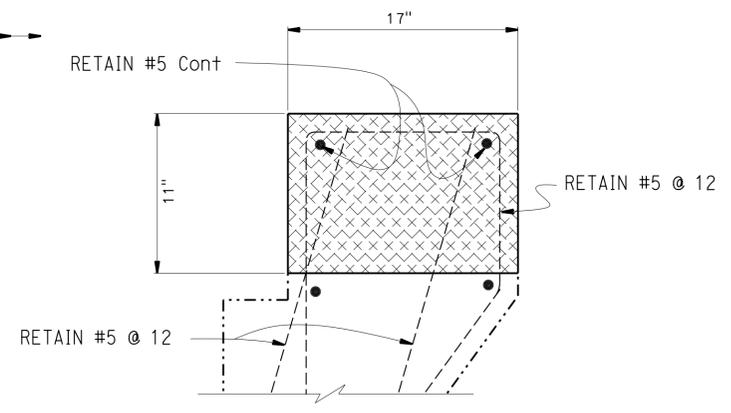
Note: Detail shown for Bent 8, 11, 14 and 17
 1/2" = 1'-0"

- NOTES:** (APPLY TO THIS SHEET ONLY)
- Indicates limits of bridge removal (portion)
 - Indicates limits of structural concrete, bridge.

"a" For "a" see STANDARD PLAN B6-21



PLAN VIEW



SECTION VIEW

DETAIL "W"
NO SCALE

ALTAMONT SIDEHILL VIADUCT

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

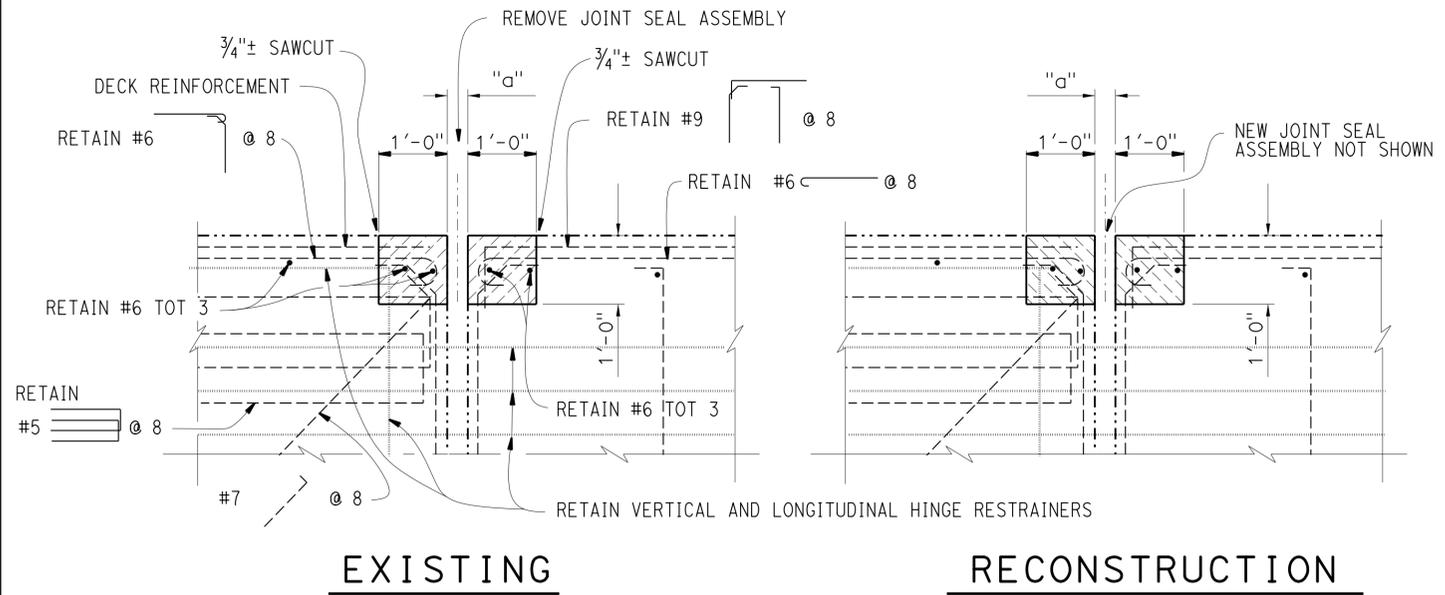
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

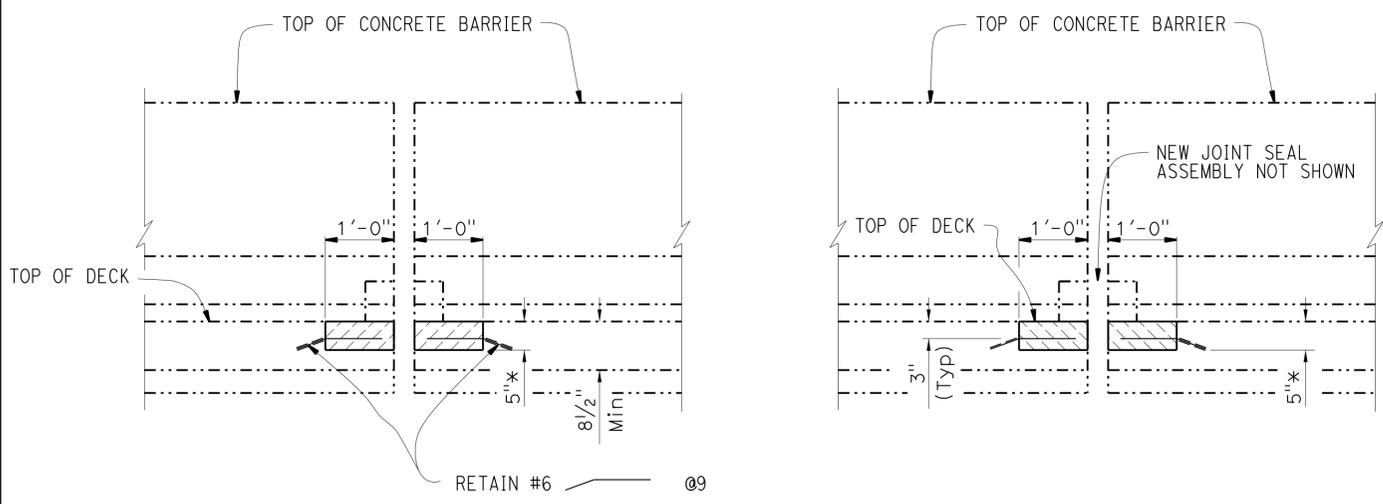
ROUTE 24, 580, 680, 880 & 980
JOINT SEAL DETAILS NO. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	60	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
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SECTION E-E
3/4" = 1'-0"



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

(JOINT SEAL ASSEMBLY AT DECK OVERHANG)

* Reduce depth of blockout within a distance of 2'-9" from face of concrete barrier.

SAN LORENZO CREEK UC

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of bridge removal (portion)

Indicates limits of structural concrete, bridge.

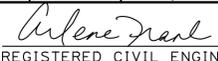
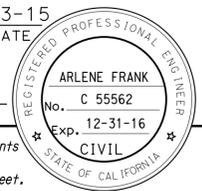
"a" Joint width varies with temperature, see STANDARD PLAN B6-21

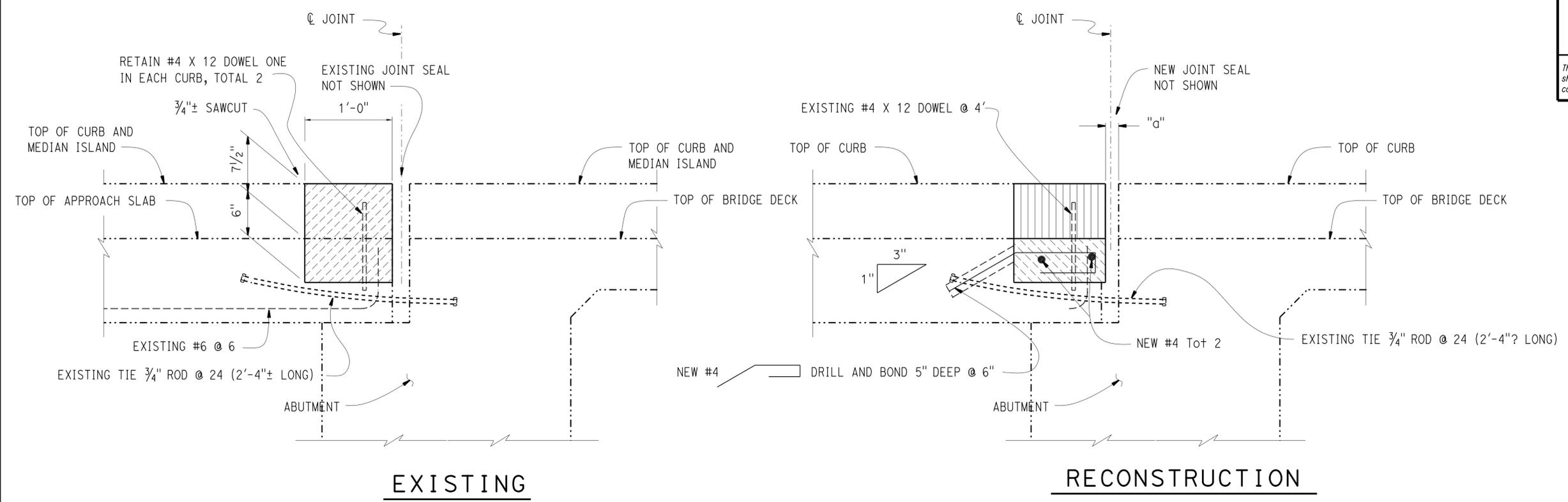
TEMPORARY DECK PLATE LOAD CRITERIA		
MOMENT DEMAND/FOOT (kip-ft/ft)	BOLT SHEAR/FOOT (kip/ft)	BOLT TENSION (kip)
4.8	8.0	4.6

Plate deflection must not exceed s/300 (s = span of plate [ft]).
Maximum anchor bolt spacing = 9".

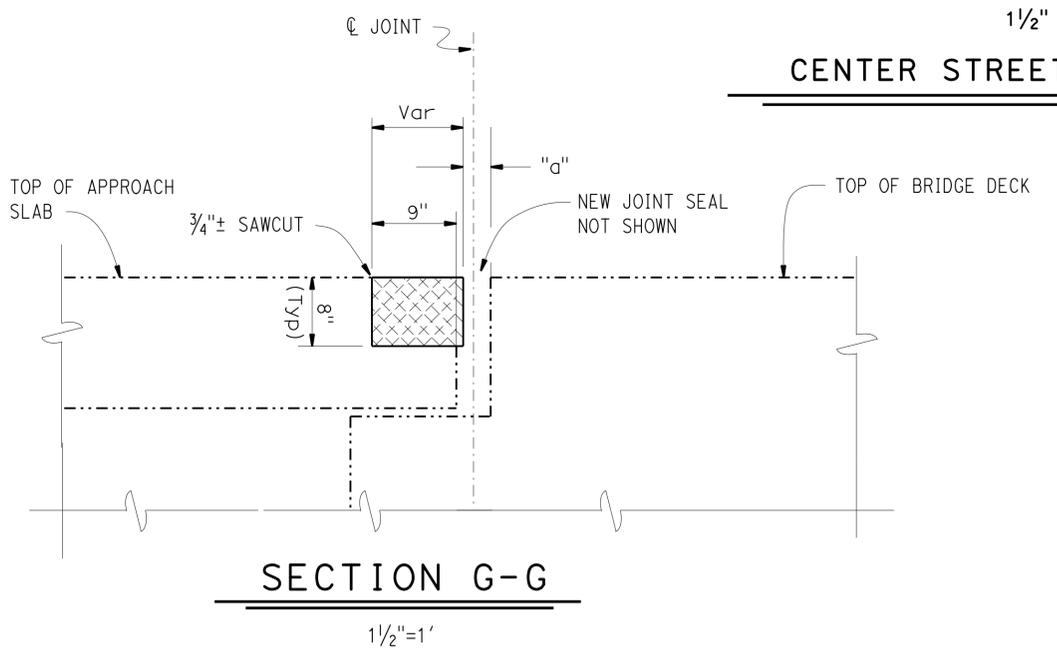
**GENERAL NOTES
LOAD FACTOR DESIGN**

- DESIGN: BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO with Interims and Revisions by CALTRANS)
- DEAD LOAD: Includes 35 psf for future wearing surface.
- LIVE LOADING: HS20-44 and alternative.
- REINFORCED CONCRETE: fy = 60 ksi
f'c = 3.6 ksi
n = 8

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	61	63
 REGISTERED CIVIL ENGINEER			1-23-15 DATE		
3-2-15 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.		



SECTION AT ABUTMENT 1
 1/2" = 1'-0"
CENTER STREET OVERCROSSING



SECTION G-G
 1/2" = 1'

- NOTES: (APPLY TO THIS SHEET ONLY)
-  Indicates limits of bridge removal (portion)
 -  Indicates limits of structural concrete, bridge.
 -  Indicates limits of minor concrete (curb)
 - "a" For "a" see STANDARD PLAN B6-21

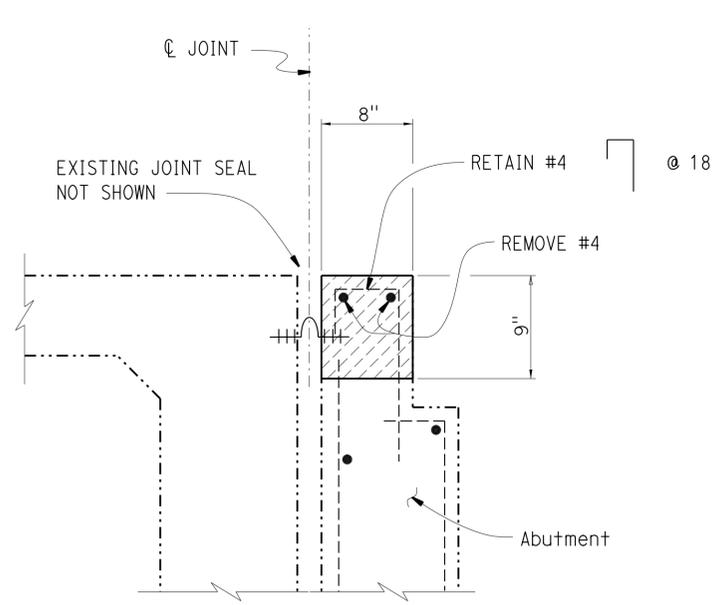
**PLEASANTON INDUSTRIAL PARK STREET UC AND
 PLEASANTON INDUSTRIAL PARK OH**

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. VARIOUS POST MILE VARIES	ROUTE 24, 580, 680, 880 & 980 JOINT SEAL DETAILS NO. 7
	DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL			
	QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3488 PROJECT NUMBER & PHASE: 0413000284	CONTRACT NO.: 04-4H8301	DISREGARD PRINTS BEARING EARLIER REVISION DATES
				0 1 2 3	REVISION DATES: 8-26-14, 9-11-14, 10-08-14	SHEET 24 OF 26

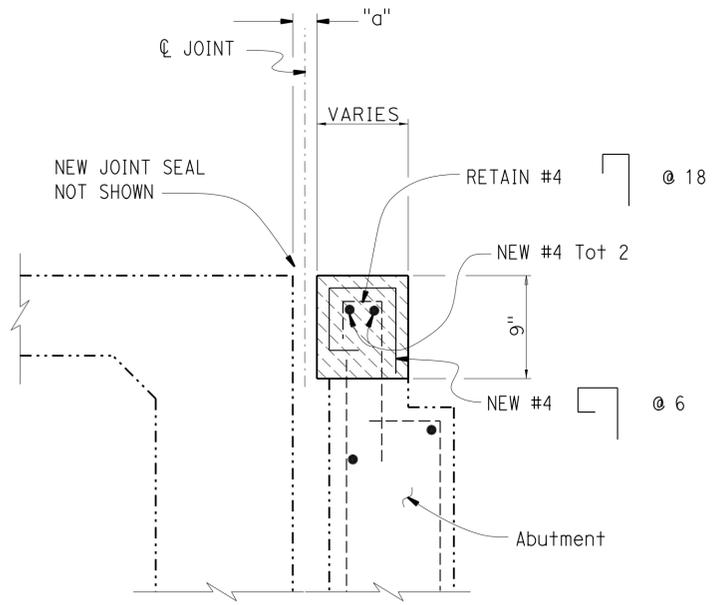
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	62	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE
 3-2-15
 PLANS APPROVAL DATE
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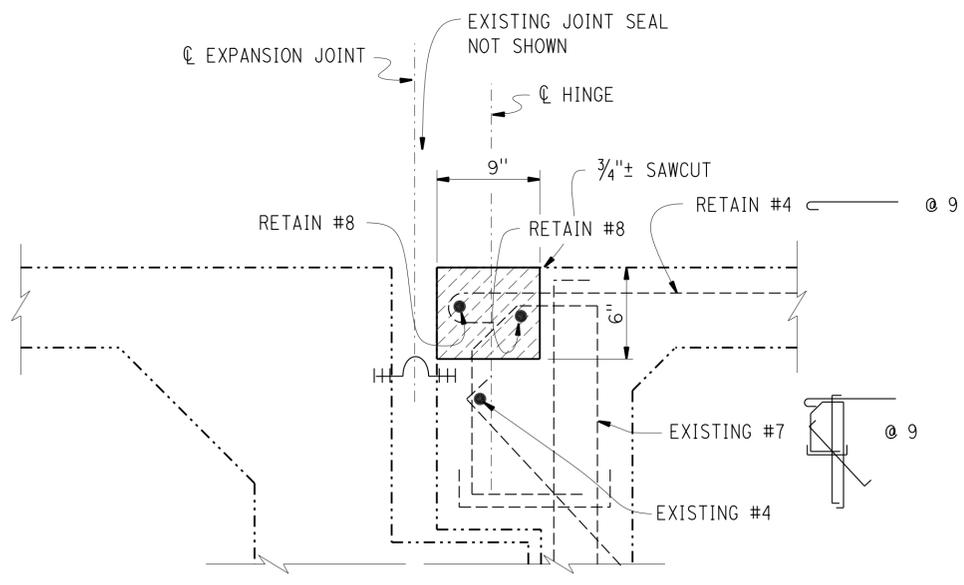
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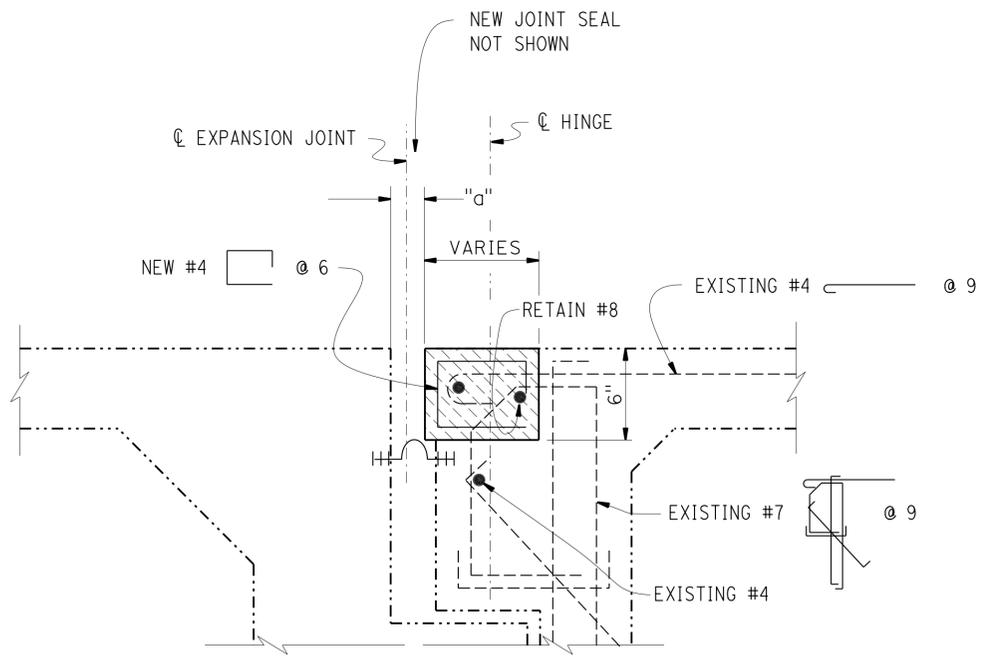
RECONSTRUCTION

SECTION I-I
1 1/2" = 1'-0"

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of bridge removal (portion)
 - Indicates limits of structural concrete, bridge.
 - "a" For "a" see STANDARD PLAN B6-21



EXISTING



RECONSTRUCTION

SECTION H-H
SAN PABLO AVENUE UNDERCROSSING
1 1/2" = 1'-0"

DESIGN	BY A. FRANK	CHECKED TIM CAMPBELL
DETAILS	BY DAVID KISH	CHECKED TIM CAMPBELL
QUANTITIES	BY A. FRANK	CHECKED TIM CAMPBELL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 24, 580, 680, 880 & 980
JOINT SEAL DETAILS NO. 8

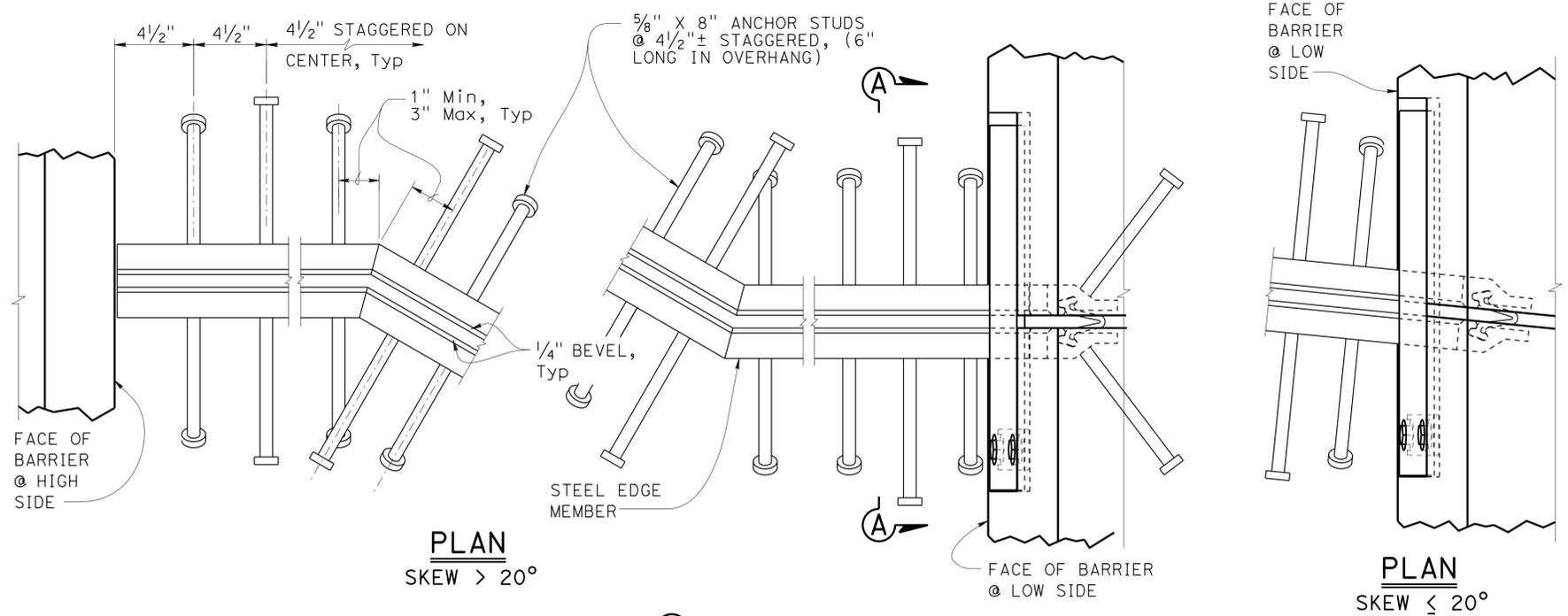
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	24,580,680 880,980	Var	63	63

Arlene Frank 1-23-15
 REGISTERED CIVIL ENGINEER DATE

3-2-15
 PLANS APPROVAL DATE

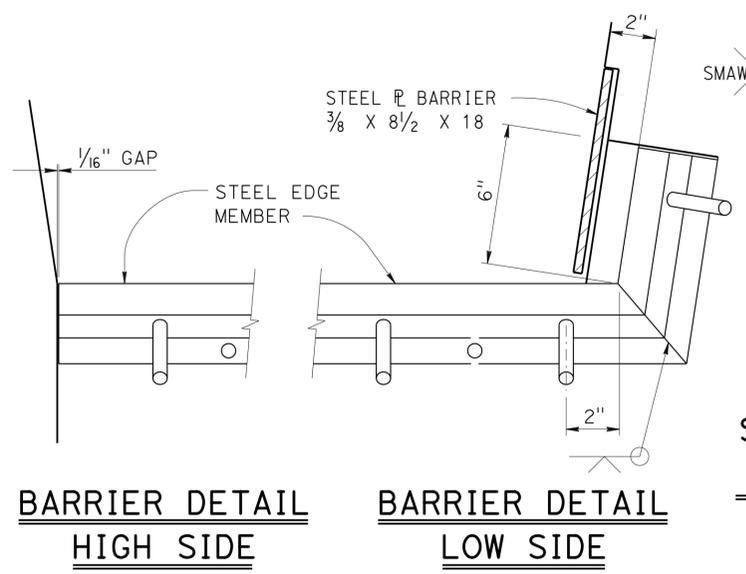
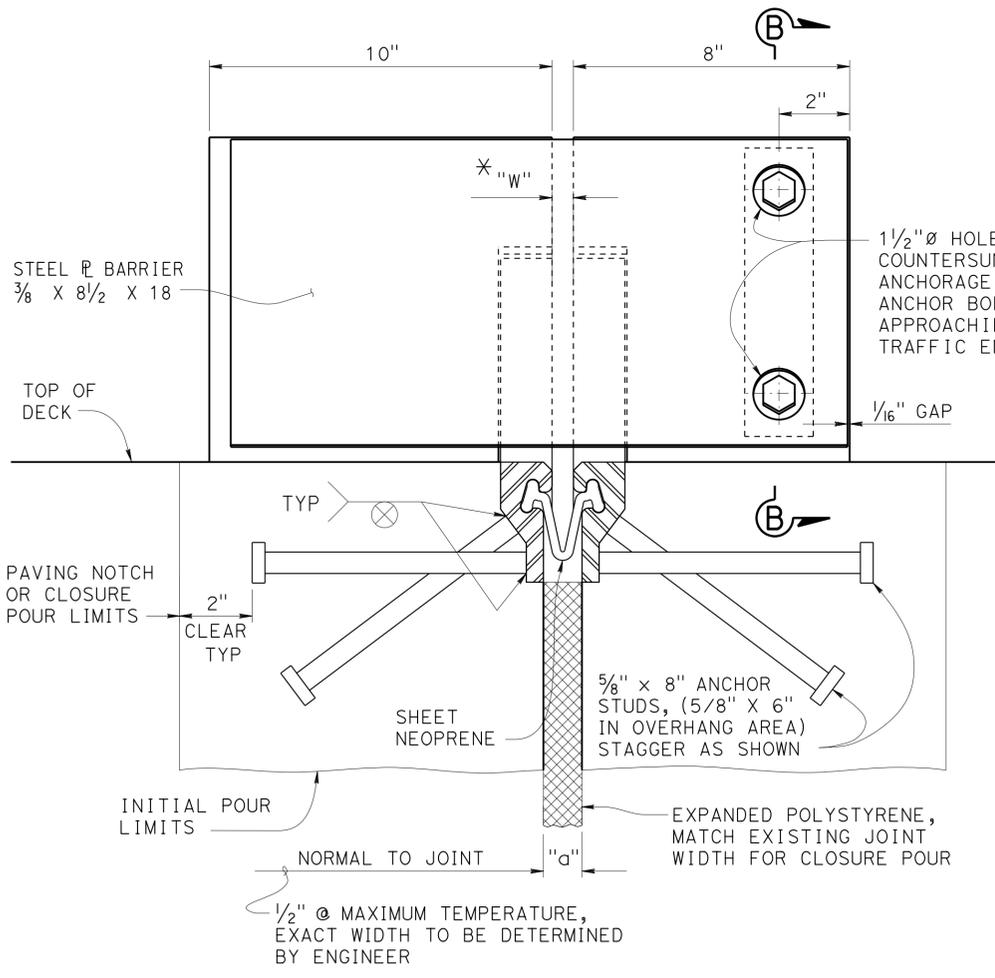
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SCHEMATIC STEEL EDGE MEMBER

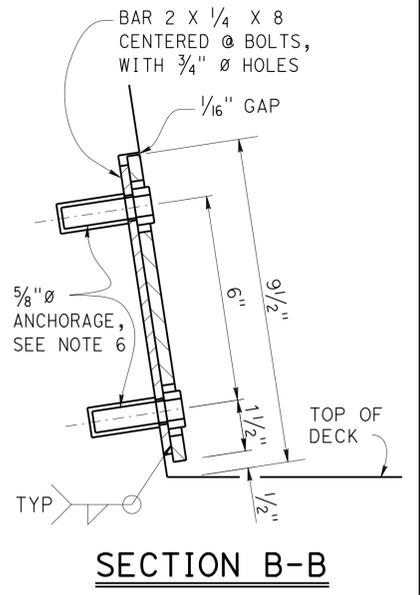
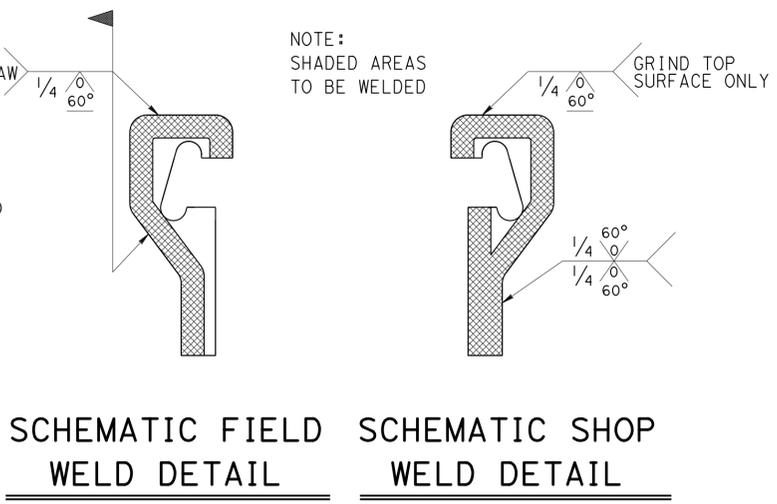
- NOTES:
- Alternatively, fillet or complete penetration welds may be used at anchor studs.
 - Alternate types of anchor studs may be used if authorized.
 - Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour must not be placed until final deck surface is within the tolerances specified.
 - Use joint at crown of roadway, at any change in traverse slope in deck and at changes in horizontal direction. Place other joints at or near lanes. All metal parts to be painted or galvanized after fabrication.
 - Sheet Neoprene must be fabricated in one continuous piece and must be fabricated to bend around corners. Field splices of the neoprene are not allowed.
 - Insert assembly or expansion anchorage for 5/8" x 1 3/4" bolts. Use installation bolts extended 1/2" minimum past nut and coat with bond breaker, after concrete has cured, remove installation bolts, install HS bolts and sheet neoprene.
 - Sidewalk Detail similar to Barrier Detail on low side at both sides if the roadway is crowned or if the difference in elevation between the ends of the seal is 0.5' or less.
 - a_c , a_s , are the thermal expansion coefficients for concrete and steel respectively.
 - Anchor studs must conform to ASTM 108.



* TO SET MINIMUM JOINT OPENING "W"

$$"W" = 1/2" + [(Max Str temperature in °F) - (actual Str temperature in °F)] * (a_c \text{ or } a_s) * (12) * (\text{contributory L in feet})$$

$a_c = 0.0000060$



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: 0413000284		CONTRACT NO.: 04-4H8301		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
DESIGN	BY A. FRANK	CHECKED	TIM CAMPBELL	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN		BRIDGE NO.	VARIOUS		
DETAILS	BY DAVID KISH	CHECKED	TIM CAMPBELL					POST MILE	VARIES		
QUANTITIES	BY A. FRANK	CHECKED	TIM CAMPBELL					SHEET 26 OF 26			
ROUTE 24, 580, 680, 880 & 980 STRIP JOINT SEAL ASSEMBLY MAXIMUM MOVEMENT RATING = 4"								NO SCALE			