Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101, 271	Var	1	24

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

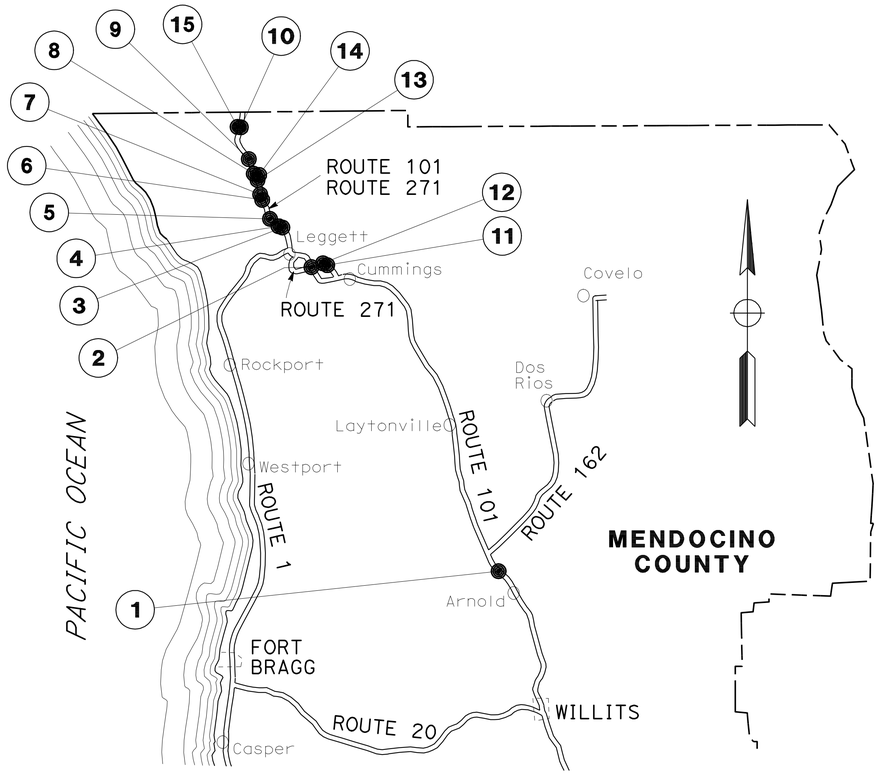
IN MENDOCINO COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

SHEET No	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION DETAILS
3	CONSTRUCTION AREA SIGNS
4	SUMMARY OF QUANTITIES
5-10	TEMPORARY TRAFFIC CONTROL SYSTEMS
11	NEW OR REVISED STANDARD PLANS
	STRUCTURE PLANS
12-19	GENERAL PLANS
20-21	JOINT SEAL DETAILS
22	EXPANSION DAM AND JOINT SEAL DETAILS
23-24	MISCELLANEOUS DETAILS

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



NO SCALE

LOCATION MAP

LOCATIONS OF CONSTRUCTION

LOCATION	COUNTY	ROUTE	PM	BRIDGE NAME	BRIDGE No.
1	Men	101	57.67	ARNOLD BRIDGE & OVERHEAD	10-0179
2	Men	101	R89.56	ROUTE 271/101 SEPARATION (SCANDIA-SOUTH LEGGETT)	10-0135
3	Men	101	93.01	JITNEY GULCH	10-0053
4	Men	101	93.71	ROCK CREEK	10-0126
5	Men	101	97.47	BRIDGES CREEK	10-0033
6	Men	101	R99.50	SOUTH FORK EEL RIVER	10-0299
7	Men	101	R100.00	SOUTH FORK EEL RIVER	10-0300
8	Men	101	R102.68	SOUTH FORK EEL RIVER	10-0093
9	Men	101	R103.81	ROUTE 101/271 SEPARATION (PIERCY)	10-0091
10	Men	101	R106.57	SOUTH FORK EEL RIVER	10-0218
11	Men	271	4.92	BIG DANN CREEK	10-0030
12	Men	271	5.22	CEDAR CREEK	10-0031
13	Men	271	17.03	ROUTE 271/101 SEPARATION (REYNOLDS)	10-0217
14	Men	271	17.88	McCOY CREEK	10-0036
15	Men	271	22.57	SOUTH FORK EEL RIVER	10-0037

James T Van Bonn 2/25/13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — James T. Van Bonn — No. 70723 — Exp. 6-30-13 — CIVIL — STATE OF CALIFORNIA

February 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.

PROJECT MANAGER: Royal B. McCarthy

DESIGN ENGINEER: Royal B. McCarthy

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

CONTRACT No.	01-0A4204
PROJECT ID	0100020281

LAST REVISION DATE PLOTTED => 25-FEB-2013
00-00-00 TIME PLOTTED => 12:02

BORDER LAST REVISED 7/2/2010 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s121671 DGN FILE => 10a420ab001.dgn | UNIT 0052 | PROJECT NUMBER & PHASE 01000202811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101, 271	Var	2	24

James T. Van Bonn 2/25/13
REGISTERED CIVIL ENGINEER DATE

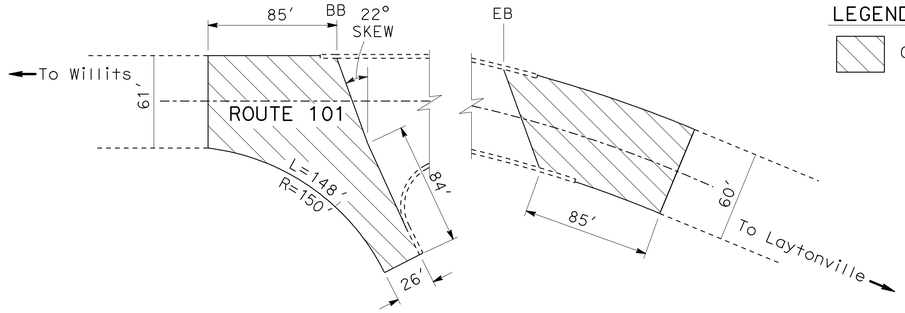
February 19, 2013
PLANS APPROVAL DATE

James T. Van Bonn No. 70723 Exp. 6-30-13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

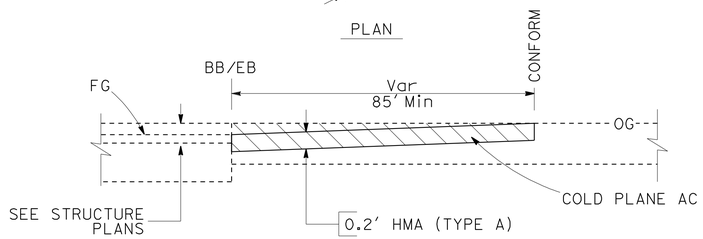
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

COLD PLANE AC

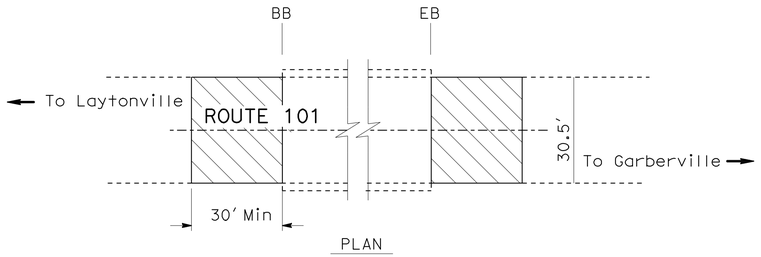


PLAN



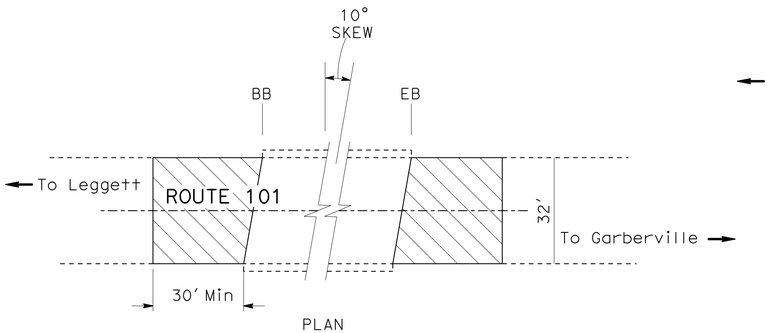
ELEVATION

LOCATION 1
BRIDGE No. 10-0179



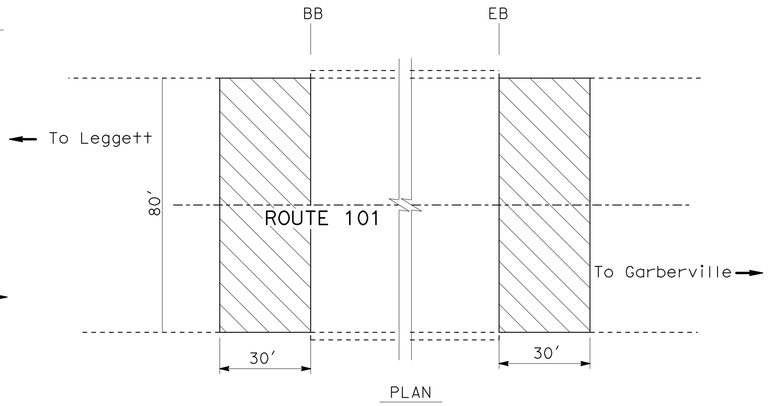
PLAN

LOCATION 3
BRIDGE No. 10-0053



PLAN

LOCATION 5
BRIDGE No. 10-0033

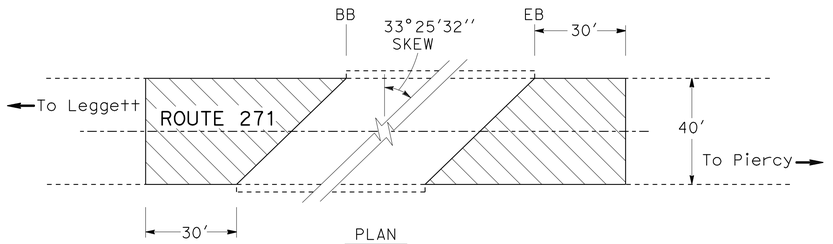


PLAN

LOCATION 9
BRIDGE No. 10-0091

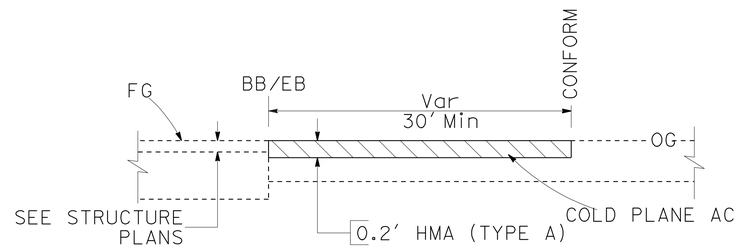
ELEVATION

LOCATION 14
BRIDGE No. 10-0036



PLAN

LOCATION 13
BRIDGE No. 10-0217



ELEVATION

LOCATIONS 3, 5, 9, & 13

ESA FENCE
LOCATION 11

CONSTRUCTION DETAILS C-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: Royal B. McCarthy
CALCULATED-DESIGNED BY: Johnathon Jackson
CHECKED BY: James T. Van Bonn
REVISED BY / DATE REVISED:

LAST REVISION: DATE PLOTTED => 25-FEB-2013 TIME PLOTTED => 12:02
00-00-00

BORDER LAST REVISED 7/2/2010
USERNAME => s121671
DGN FILE => 10a420ga001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0052
PROJECT NUMBER & PHASE 01000202811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101, 271	Var	3	24

James T. Van Bonn 2/25/13
REGISTERED CIVIL ENGINEER DATE

February 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James T. Van Bonn — No. 70723 — Exp. 6-30-13 — CIVIL — STATE OF CALIFORNIA

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

CONSTRUCTION AREA SIGNS

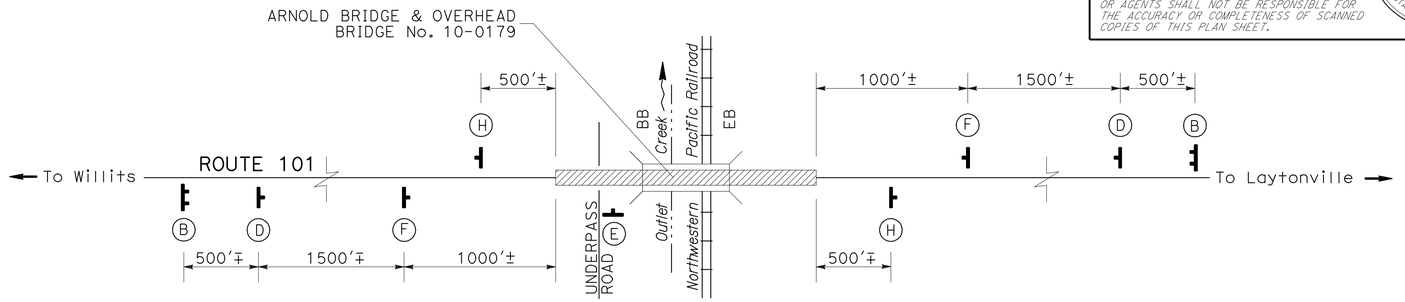
SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
Ⓐ	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONE	108"x42"	2-6"x6"	4
Ⓑ	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONE	144"x60"	2-6"x8"	2
Ⓒ	W20-1	ROAD WORK AHEAD	36"x36"	1-4"x6"	4
	C23B(CA)	BRIDGE REPAIR	36"x18"		
Ⓓ	W20-1	ROAD WORK AHEAD	48"x48"	1-6"x6"	2
	C23B(CA)	BRIDGE REPAIR	36"x24"		
Ⓔ	W20-1	ROAD WORK AHEAD	36"x36"	1-4"x6"	7
Ⓕ	W11-1	BICYCLE SYMBOL	36"x36"	1-6"x6"	6
	W16-1	SHARE THE ROAD	24"x30"		
Ⓖ	G20-2	END ROAD WORK	36"x18"	1-4"x4"	6
Ⓗ	G20-2	END ROAD WORK	48"x24"	1-4"x6"	2

NOTES:

1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

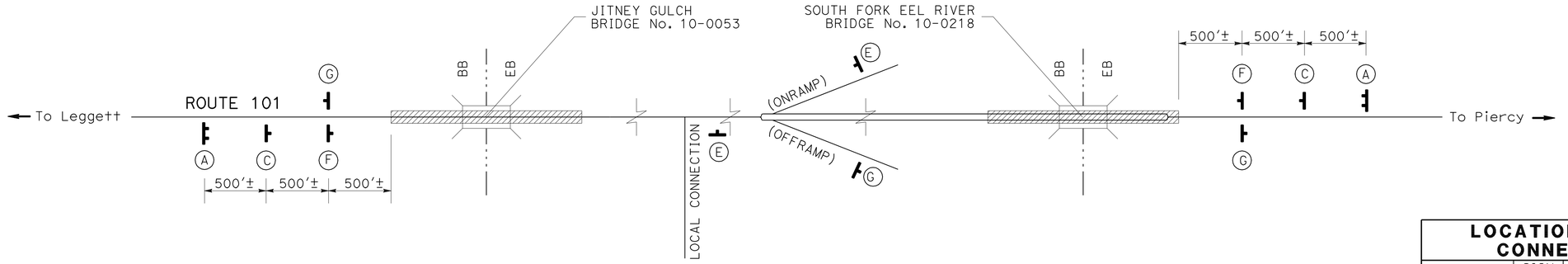
LEGEND

▨ CONSTRUCTION AREA



LOCATION 1

ARNOLD BRIDGE & OVERHEAD
BRIDGE No. 10-0179



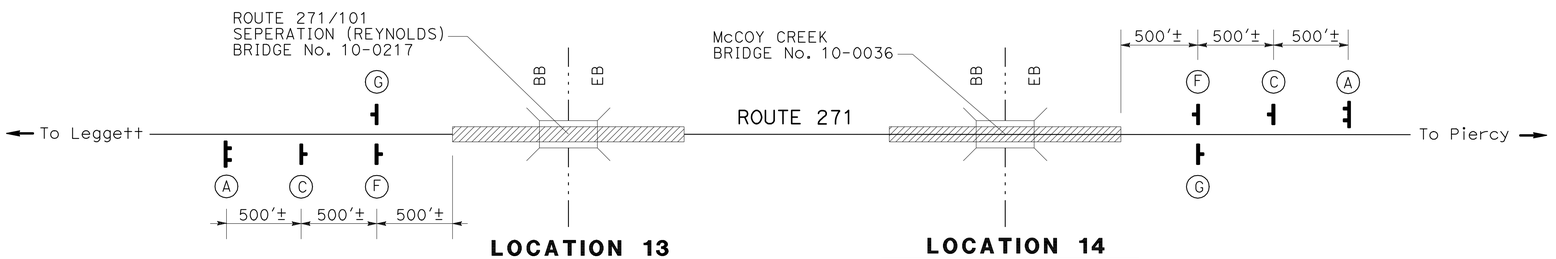
LOCATIONS 3, 4, 5, 6, 7, 8, 9, & 10

LOCATION OF PUBLIC ROAD CONNECTION SIGNS (N)

LOCATION (PM)	SIGN Ⓔ EA	SIGN Ⓖ EA	REMARKS ROAD NAME
97.67 R+	1		
99.65 R+	1		
99.65 L+	1		
R101.45 R+	1		
R103.74 R+		1	NB OFFRAMP
R103.74 L+	1		SB ONRAMP
R103.94 R+	1		NB ONRAMP
R103.94 L+		1	SB OFFRAMP

NOTES:

1. THIS TABLE FOR INFORMATION PUPOSES ONLY
2. (N) INDICATES NOT A SEPERATE PAY ITEM



LOCATION 13

ROUTE 271/101 SEPERATION (REYNOLDS)
BRIDGE No. 10-0217

LOCATION 14

McCOY CREEK
BRIDGE No. 10-0036

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
CS-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: Royal B. McCarthy
CALCULATED-DESIGNED BY: Johnathon Jackson
CHECKED BY: James T. Van Bonn
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 25-FEB-2013
00-00-00 TIME PLOTTED => 12:02

BORDER LAST REVISED 7/2/2010
USERNAME => s121671
DGN FILE => 10a4201a001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0052
PROJECT NUMBER & PHASE 01000202811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101, 271	Var	4	24

James T Van Bonn 2/25/13
REGISTERED CIVIL ENGINEER DATE

February 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James T. Van Bonn
No. 70723
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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

THERMOPLASTIC TRAFFIC STRIPE AND PAVEMENT MARKERS

LOCATION (PM)			DETAIL NUMBER	DETAIL LENGTH	THERMOPLASTIC TRAFFIC STRIPE						PAVEMENT MARKERS					
					REMOVE			4" SOLID	4" SOLID	4" (BROKEN 36-12)	REMOVE (N)			NON-REFLECTIVE	RETROREFLECTIVE	
					HAZARDOUS WASTE											
					YELLOW	YELLOW	WHITE	YELLOW	WHITE	WHITE	TYPE A	TYPE D	TYPE G	TYPE A	TYPE D	TYPE G
No.	FROM	TO		LF							EA					
1	57.67	57.77	27B	1602					1385							
			11/13	1502						1502	120		30	120		30
			29	693				2776				58			58	
3	93.00	93.06	27B	128					128							
			22	64				128				8			8	
5	97.46	97.50	27B	430			145		430							
			22	215	145			430				10			10	
6	R99.50	R99.58	27B	2718			2710		2718							
			22	1359		2710		2718				58			58	
7	R100.20	R100.23	27B	1170			1162		1170							
			22	585		1162		1170				26			26	
9	R103.81	R103.83	27B	348					384							
			12	696						174			12			12
			29	174				696				14			14	
13	17.02	17.04	27B	188					188							
			22	94				188				4			4	
14	17.87	17.93	27B	580					580							
			22	290				580				22			22	
SUBTOTAL						3872	4017	8686	6947		120	200	42		200	42
TOTAL					145	7889		15633		1676	362			120	242	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

ROADWAY

LOCATION (PM)			COLD PLANE AC PAVEMENT	TACK COAT	HMA (TYPE A)	REMARKS
No.	FROM	TO	SQYD	TON		
1	57.67	57.77	1050	2.70	143.6	BB
			716	1.80	97.9	EB
3	93.00	93.06	102	0.25	13.9	BB
			102	0.25	13.9	EB
5	97.46	97.50	117	0.30	16.0	BB
			117	0.30	16.0	EB
9	R103.81	R103.83	267	0.70	36.5	BB
			267	0.70	36.5	EB
13	17.02	17.04	192	0.50	26.3	BB
			192	0.50	26.3	EB
14	17.87	17.93	80	0.21	10.9	BB
			80	0.21	10.9	EB
TOTAL			3282	8.40	448.7	

TEMPORARY FENCE (TYPE ESA)

LOCATION (PM)			ESA FENCE	REMARKS
No.	FROM	TO	LF	
11	5.048 R†	5.086 R†	200	DRAINAGE DITCH & VEGATATION
TOTAL			200	

PAVEMENT MARKING

LOCATION		PAVEMENT MARKING		REMARKS
		REMOVE	PLACE	
No.	PM	SQFT		
1	57.67	44	44	STOP
		45	45	LIMIT LINE
TOTAL		89	89	

SUMMARY OF QUANTITIES
Q-1

REVISED BY: Johnathon Jackson
DATE REVISED:
CALCULATED-DESIGNED BY: James T. Van Bonn
CHECKED BY:
FUNCTIONAL SUPERVISOR: Royal B. McCarthy

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 25-FEB-2013
TIME PLOTTED => 12:02

BORDER LAST REVISED 7/2/2010
USERNAME => s121671
DGN FILE => 10a420pa001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0052
PROJECT NUMBER & PHASE 01000202811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101, 271	Var	5	24

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

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

February 19, 2013
PLANS APPROVAL DATE

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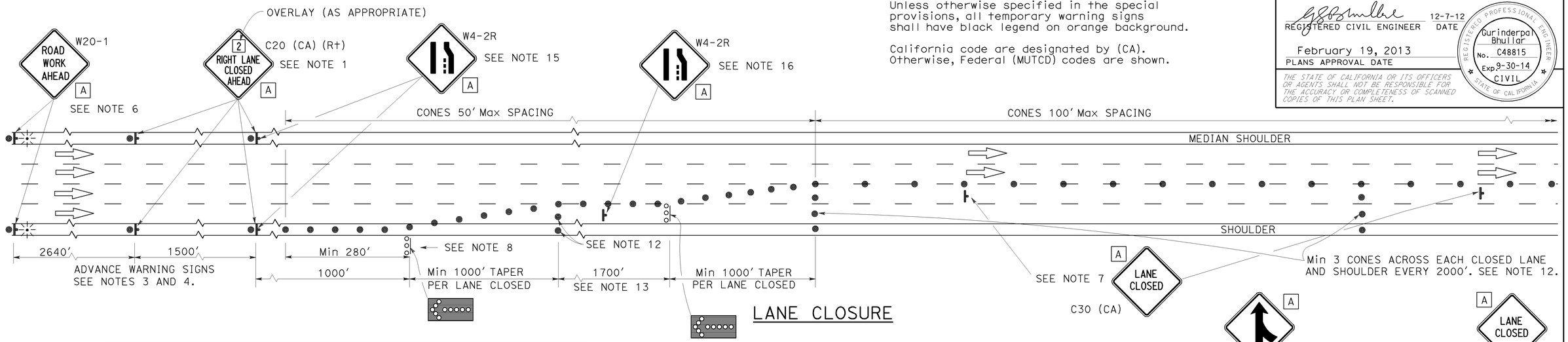
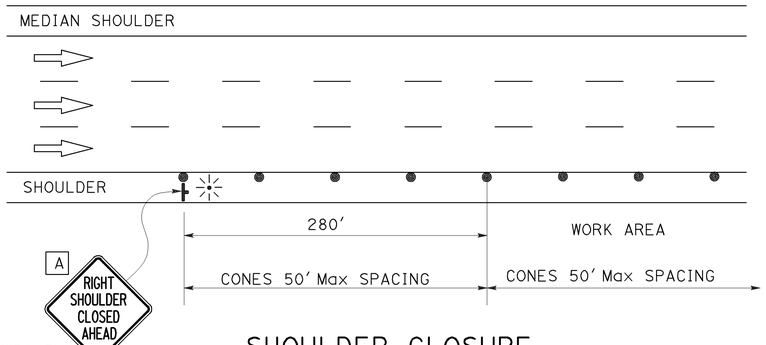
NOTES:

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

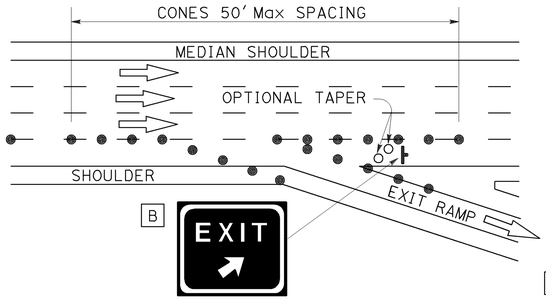
California code are designated by (CA).
Otherwise, Federal (MUTCD) codes are shown.



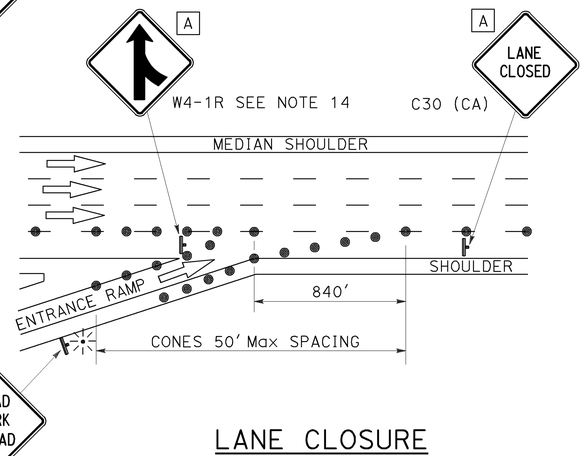
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT EXIT RAMP



LANE CLOSURE AT ENTRANCE RAMP

NOTES:

1. Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
7. Place a C30 (CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
15. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
16. The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

A	48" × 48"
B	54" × 48"

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

TCS-1

REVISED BY | DATE REVISED
CALCULATED- | DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 10-DEC-2012
00-00-00 | TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101, 271	Var	6	24

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

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

February 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.

REVISED BY | DATE REVISED

CALCULATED- | DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

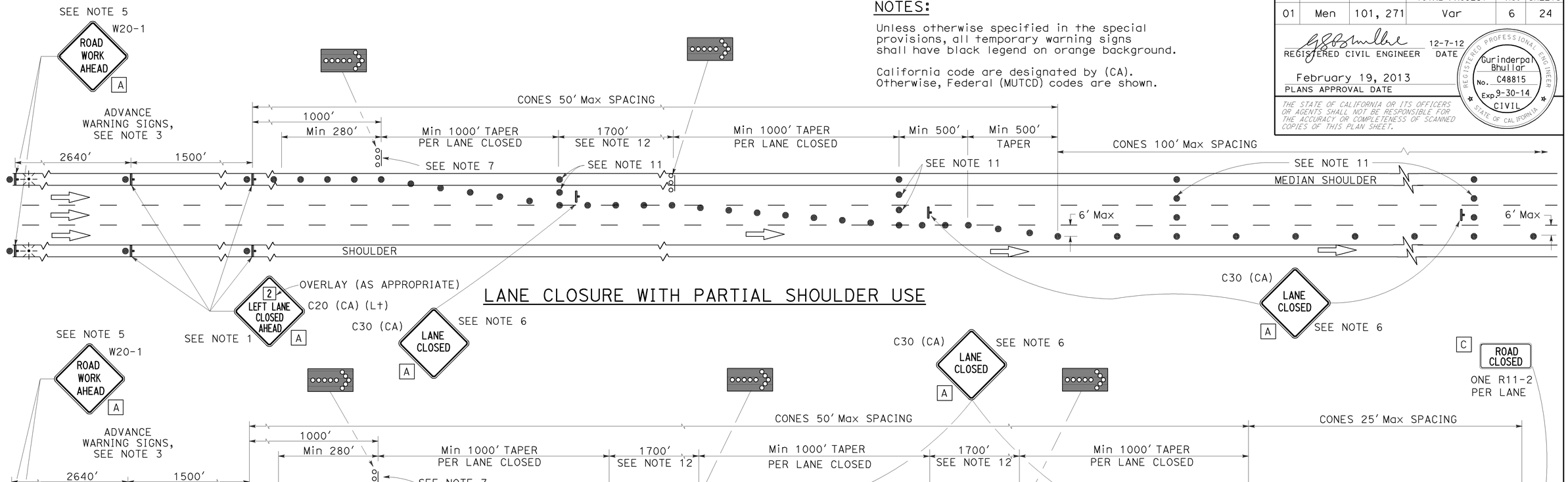
Caltrans

NOTES:

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

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

LANE CLOSURE WITH PARTIAL SHOULDER USE



COMPLETE CLOSURE

NOTES:

1. Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details for inside lane closure except that C20 (CA) (Rt) signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
4. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
5. If the W20-1 sign would follow within 2000′ of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT ___ MILES", use a C20 (CA) sign for the first advance warning sign.
6. Place a C30 (CA) sign every 2000′ throughout length of lane closure.
7. One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
8. A minimum 1500′ of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
9. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
10. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
11. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000′ as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
12. Unless otherwise specified in the special provisions, the 1700′ tangent shown along lane lines shall be used between the 1000′ tapers required for each closed traffic lane.
13. A minimum of Two Type II barricades shall be placed across each closed lane and shoulder at the location shown and every 2000′ within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
14. When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

- A 48" × 48"
- B 48" × 18"
- C 48" × 30"

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

TCS-2

LAST REVISION | DATE PLOTTED => 10-DEC-2012
00-00-00 | TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101, 271	Var	7	24

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

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

February 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.

TYPICAL LANE CLOSURE

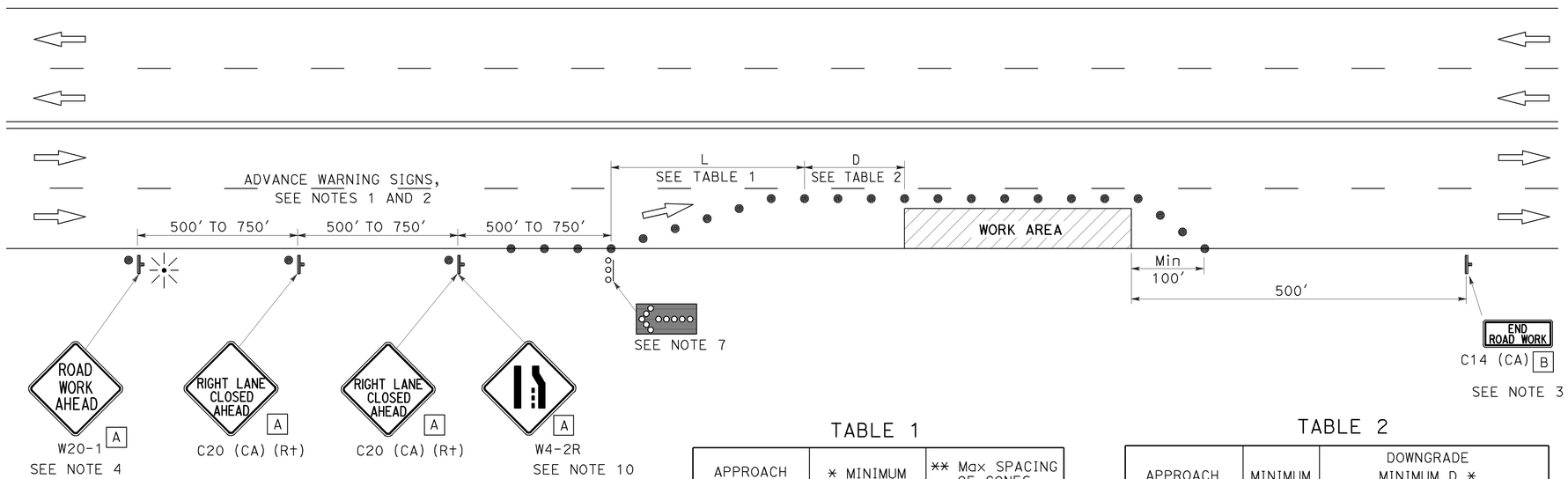


TABLE 1

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

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

TABLE 2

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
OVER 50	SEE NOTE 9			

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

NOTES:

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

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

LEGEND

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

SIGN PANEL SIZE (Min)

A 36" × 36"

B 36" × 18"

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300′ spacing and placed closer in urban areas.
2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000′ of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow sign shall be either Type I or Type II.
8. The maximum spacing between cones along a tangent shall be 50′ and along a taper shall be approximately as shown in Table 1.
9. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
10. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-3

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101, 271	Var	8	24

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

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

February 19, 2013
PLANS APPROVAL DATE

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REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

LEGEND

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

TABLE 1

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

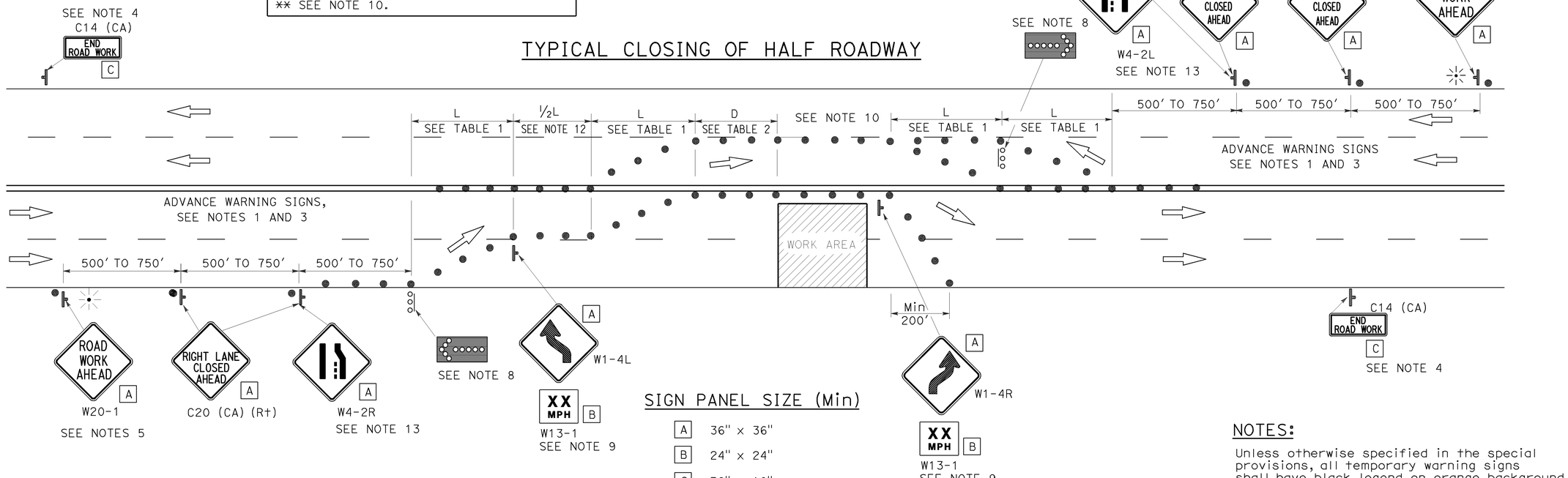
* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.
** SEE NOTE 10.

TABLE 2

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
OVER 50	SEE NOTE 11			

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

TYPICAL CLOSING OF HALF ROADWAY



SIGN PANEL SIZE (Min)

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

NOTES:

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

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

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-4

LAST REVISION: DATE PLOTTED => 10-DEC-2012
00-00-00 TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101, 271	Var	9	24

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

February 19, 2013
PLANS APPROVAL DATE

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

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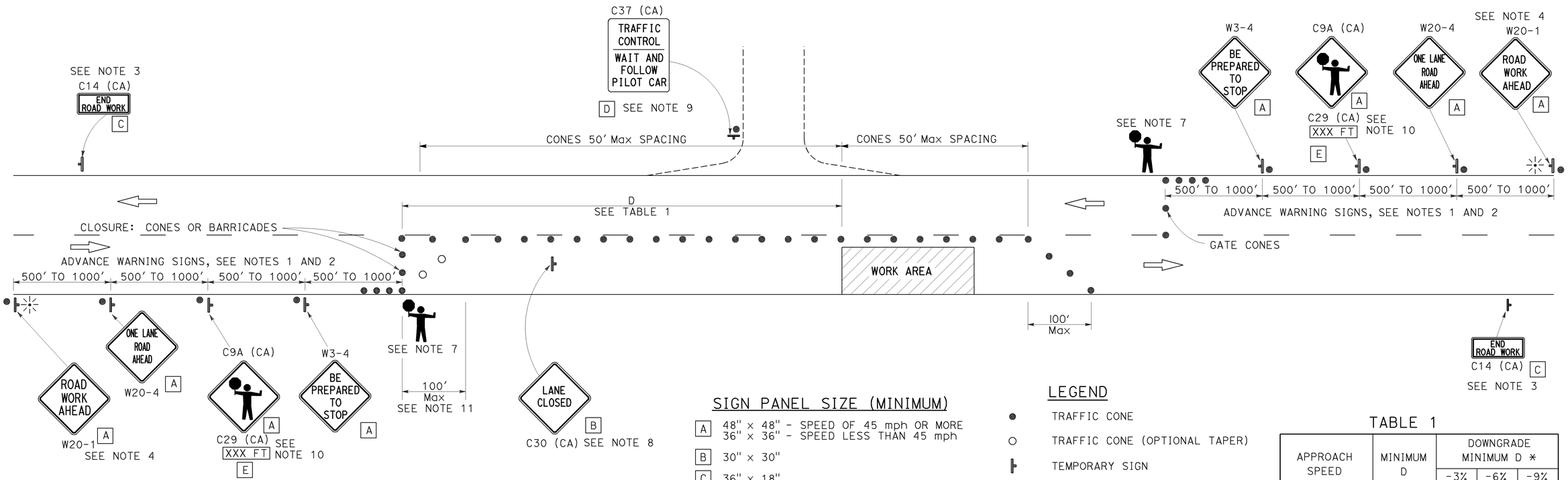
NOTES:

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

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

LEGEND

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

NOTES:

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

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-5

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 10-DEC-2012
00-00-00 TIME PLOTTED => 09:45

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE
  36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101, 271	Var	10	24

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

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

February 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.

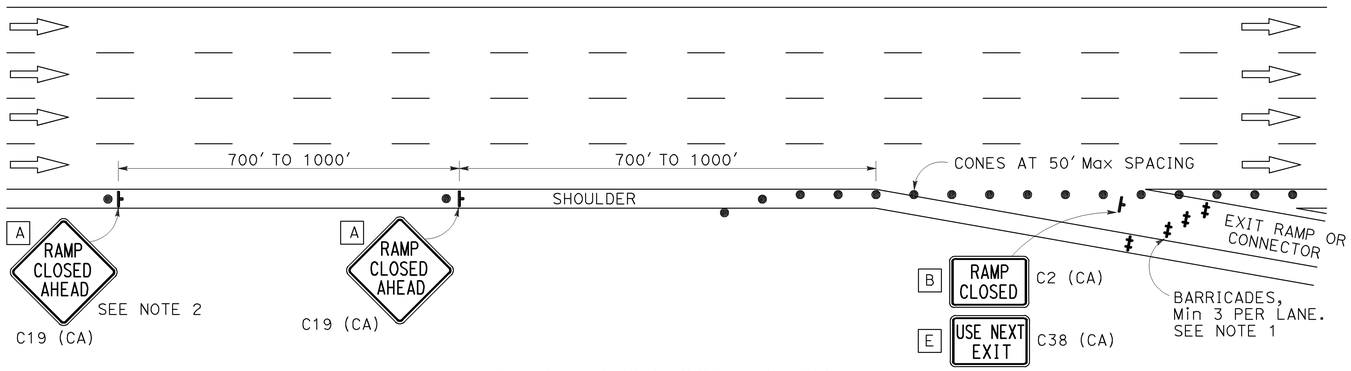
LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- BARRICADES

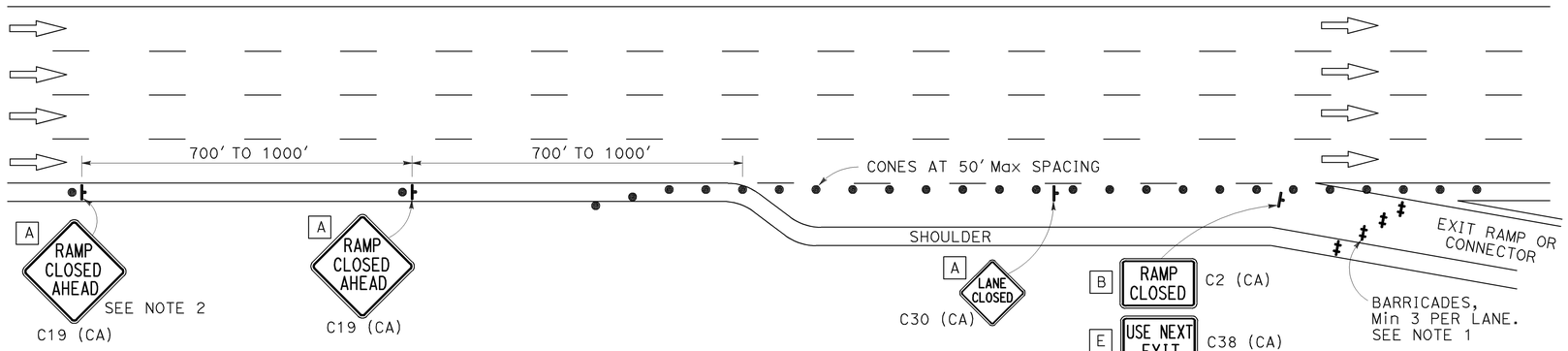
NOTES:

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

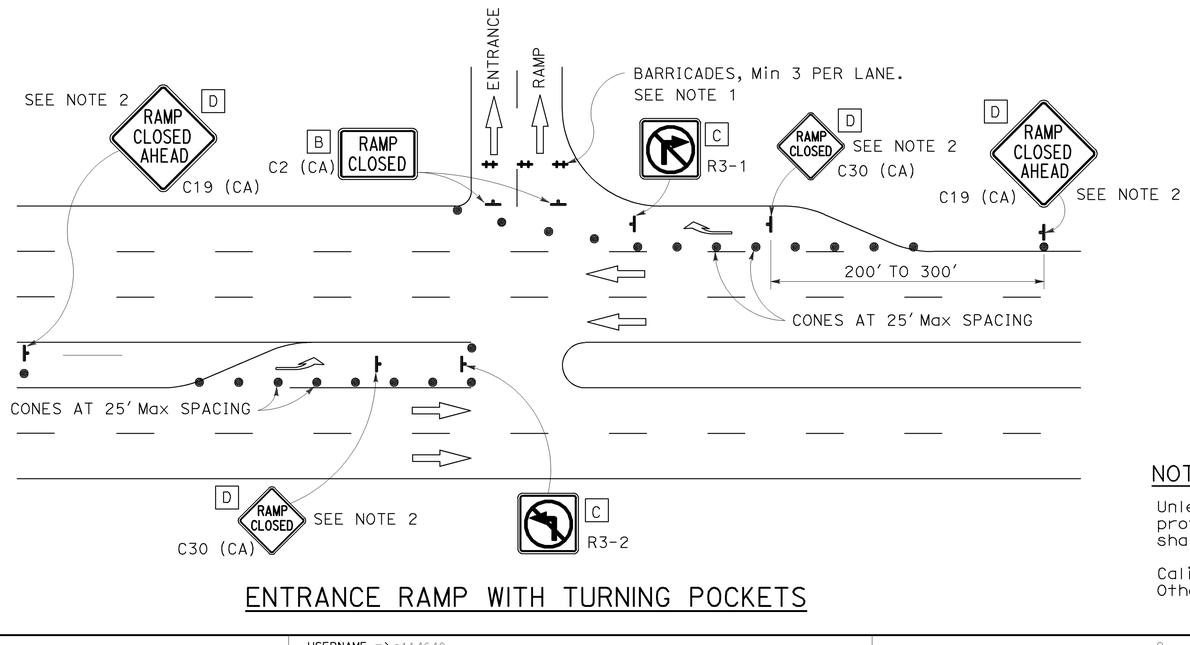
EXIT RAMP OR CONNECTOR



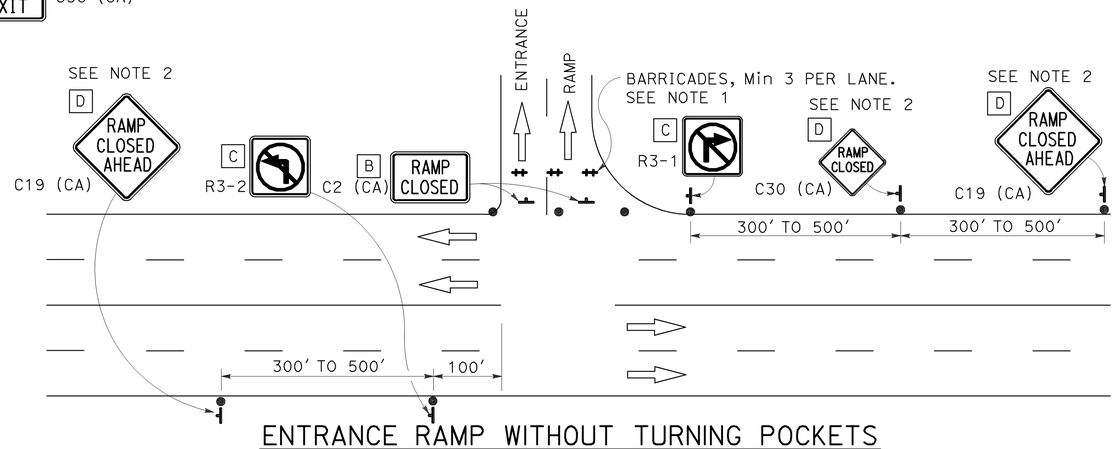
EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS



NOTES:

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

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

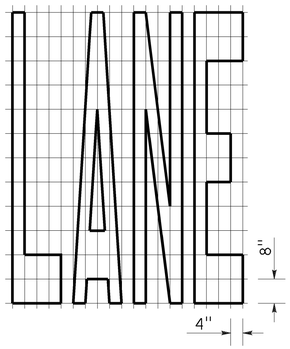
NO SCALE

TCS-6

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45 | 00-00-00



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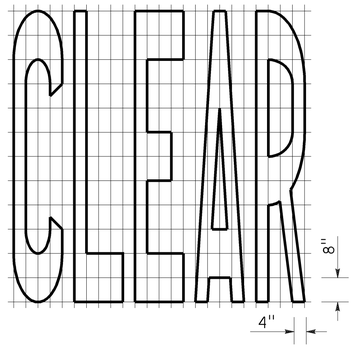

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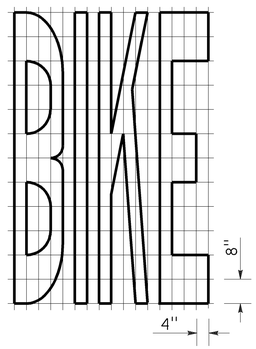

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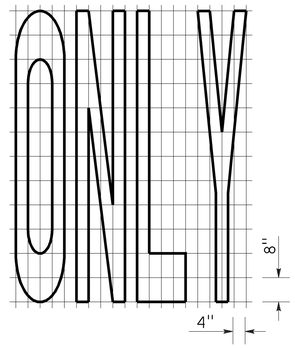

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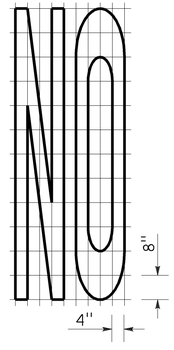

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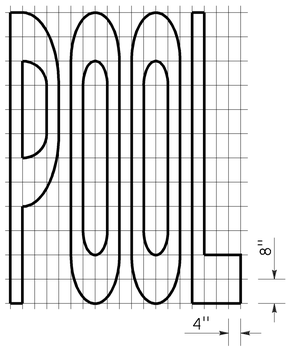

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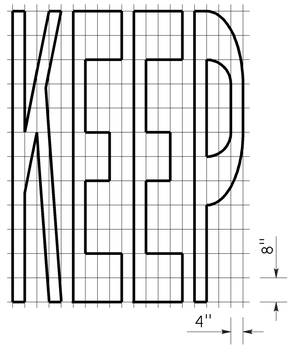

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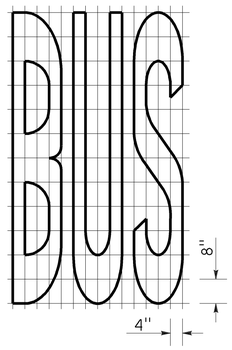

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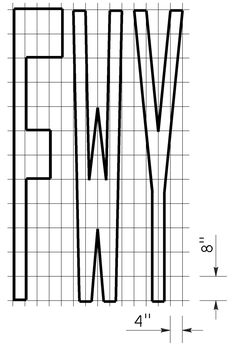

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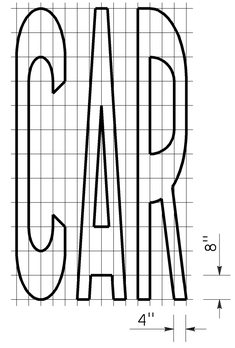


A=17 ft^2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101, 271	Var	11	24

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

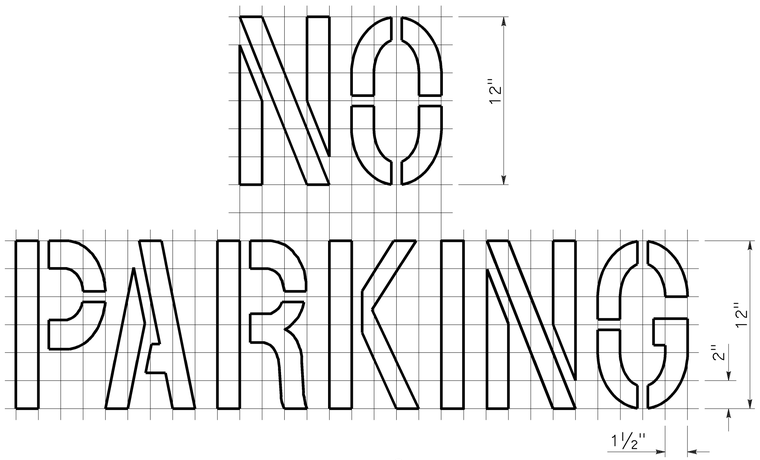
July 20, 2012
PLANS APPROVAL DATE

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

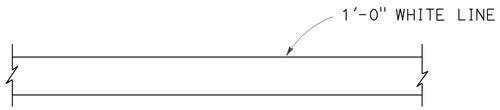
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED February 19, 2013

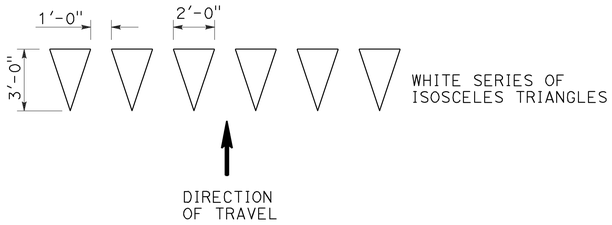
WORD MARKINGS			
ITEM	ft^2	ITEM	ft^2
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft^2
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
DEPARTMENT OF TRANSPORTATION

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.

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

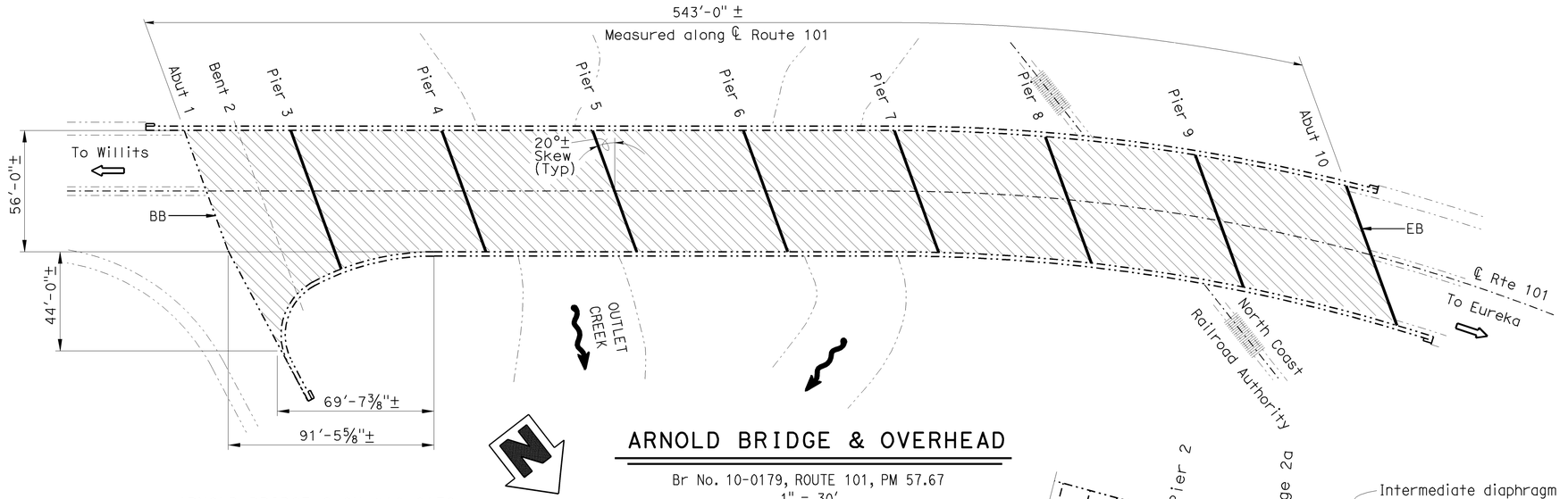
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101,271	Var	12	24

Arlene Frank — 1-8-13
REGISTERED CIVIL ENGINEER — DATE

February 19, 2013
PLANS APPROVAL DATE

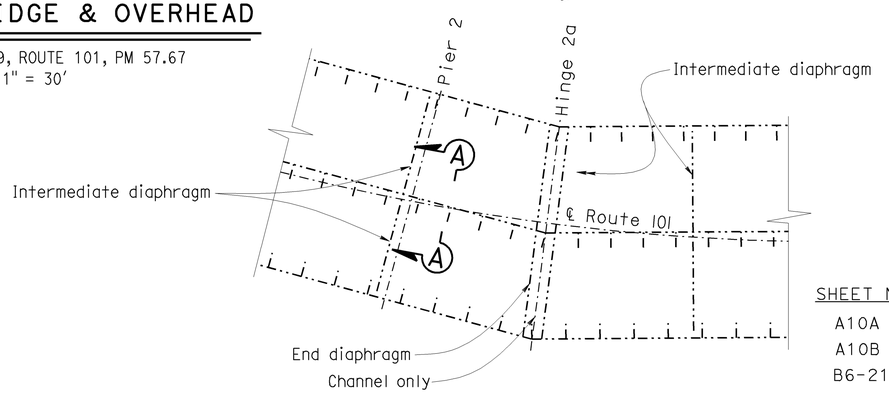
REGISTERED PROFESSIONAL ENGINEER — ARLENE FRANK — No. C 55562 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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



ARNOLD BRIDGE & OVERHEAD

Br No. 10-0179, ROUTE 101, PM 57.67
1" = 30'



ARNOLD BRIDGE & OH #10-0179

QUANTITIES

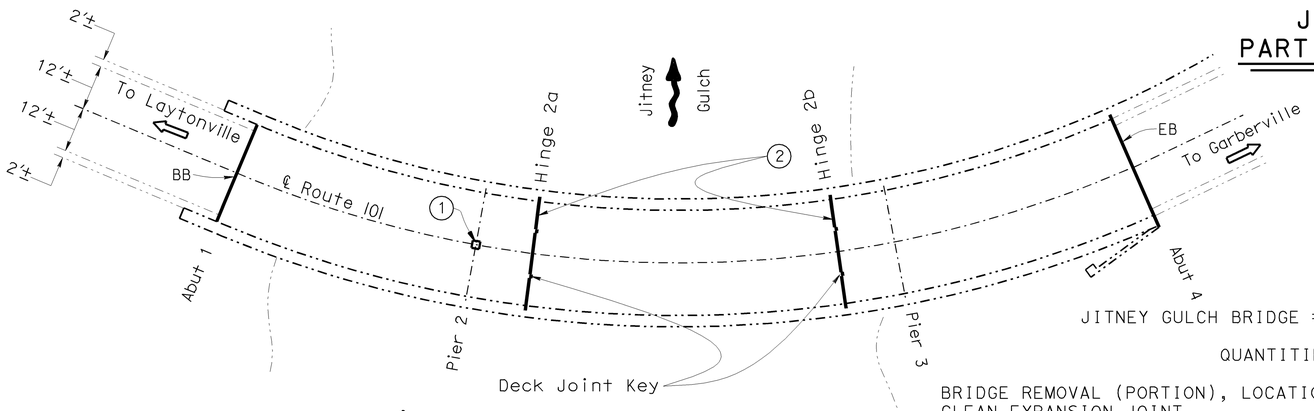
RAPID SETTING CONCRETE (PATCH)	235	CF
REMOVE ASPHALT CONCRETE SURFACING	32,400	SQFT
REMOVE UNSOUND CONCRETE	235	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	32,400	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	3,280	CF
PLACE POLYESTER CONCRETE OVERLAY	32,400	SQFT
POLYESTER CONCRETE EXPANSION DAM	400	CF
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP	SUM
BONDED JOINT SEAL (MR 1")	500	LF

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	JOINT SEAL DETAILS NO.1
10	JOINT SEAL DETAILS NO.2
11	EXPANSION DAM AND JOINT SEAL DETAILS
12	MISCELLANEOUS DETAILS NO.1
13	MISCELLANEOUS DETAILS NO.2

STANDARD PLANS DATED 2010

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



JITNEY GULCH
PART GIRDER LAYOUT

1" = 10'

JITNEY GULCH

Br No. 10-0053, ROUTE 101, PM 93.01
1" = 20'

JITNEY GULCH BRIDGE #10-0053

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP	SUM
CLEAN EXPANSION JOINT	124	LF
JOINT SEAL (MR 1/2")	62	LF
BONDED JOINT SEAL (MR 1")	62	LF
STRUCTURAL STEEL (BRIDGE)	150	LB
CLEAN AND PAINT STRUCTURAL STEEL	LUMP	SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	14	SQFT
WORK AREA MONITORING	LUMP	SUM

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

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates existing.

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

Indicates limits of remove 3½"± AC overlay and 7½" ± depth reinforced polyester concrete expansion dam 1'-0"± each side of the joint. For details see "EXPANSION DAM AND JOINT SEAL DETAILS" sheet. Prepare concrete bridge deck, place new 1" polyester concrete overlay, and place polyester concrete expansion dam. Prior to prepare bridge deck remove unsound concrete and patch with rapid setting concrete.

(1) Remove concrete deck, 1'-2½" long x 10" wide x 1'-2"± depth. Install new steel bent clip plates. See "SECTION A-A" on "MISCELLANEOUS DETAILS NO. 1" sheet.

(2) Remove existing 1¼" Dia. bolt (total 2 per girder) and install new 1¼" Dia. bolt. Bolts shall be aligned vertical, existing holes may be adjusted to obtain alignment. For details see "HINGE ELEVATION" on "MISCELLANEOUS DETAILS NO. 1" sheet.

Matthew DeLee — 12-10-12
DESIGN ENGINEER

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	A. Frank	Q. Vo			
DETAILS	N. Kelley	Q. Vo	LAYOUT	N. Kelley	Q. Vo
QUANTITIES	A. Frank	Q. Vo	SPECIFICATIONS	Dave Klein	PLANS AND SPECS COMPARED Dave Klein

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	ROUTE 101 & 271 BRIDGES
VARIOUS	
POST MILE	GENERAL PLAN NO. 1
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: 0100020281 CONTRACT NO.: 01-0A4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-29-11	1-25-13	2-14-13	12-27-13	1	13

FILE => 01-0a4201_01gp.dgn

USERNAME => s1211716 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 11:30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101,271	Var	13	24

Arlene Frank 1-8-13
REGISTERED CIVIL ENGINEER DATE

February 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ARLENE FRANK — No. C 55562 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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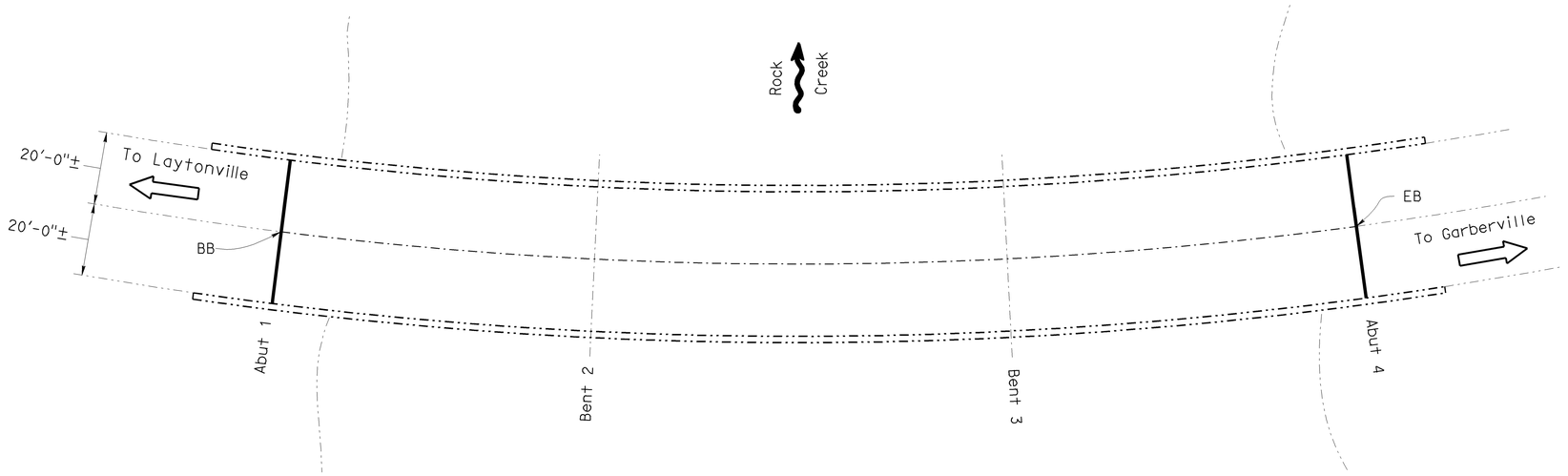


ROCK CREEK

Br No. 10-0126, ROUTE 101, PM 93.71
1" = 20'

ROCK CREEK BRIDGE #10-0126

QUANTITIES

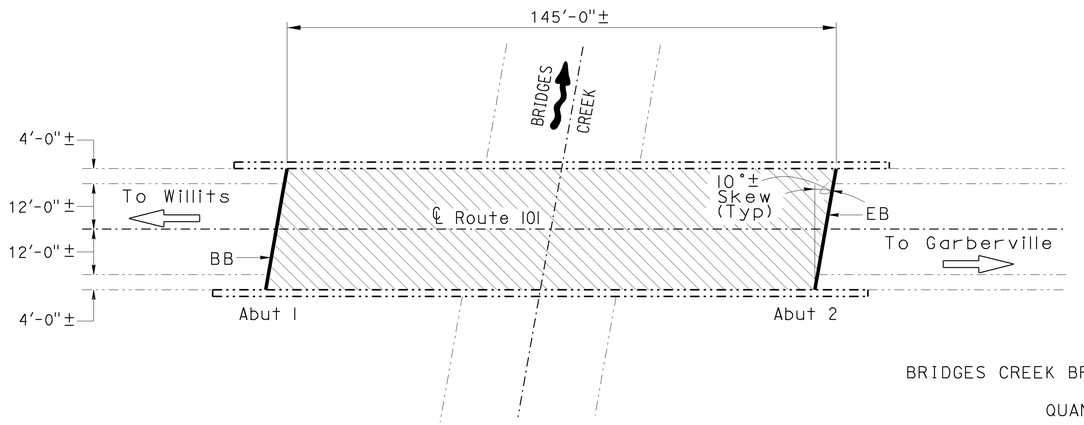
CLEAN EXPANSION JOINT	82	LF
JOINT SEAL (MR 1")	41	LF
JOINT SEAL (MR 1 1/2")	41	LF

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates existing.

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

Indicates limits of remove 2¼"± polyester concrete overlay, prepare concrete bridge deck and place new 2¼" polyester concrete overlay. Prior to prepare bridge deck remove unsound concrete and patch with rapid setting concrete. See "DECK REPAIR DETAIL-OVERLAY" on JOINT SEAL DETAILS NO. 2 sheet.



BRIDGES CREEK

Br No. 10-0033, ROUTE 101, PM 97.47
1" = 20'

BRIDGES CREEK BRIDGE #10-0033

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	12	CF
REMOVE POLYESTER CONCRETE OVERLAY	4,640	SQFT
REMOVE UNSOUND CONCRETE	12	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,640	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	1,040	CF
PLACE POLYESTER CONCRETE OVERLAY	4,640	SQFT
CLEAN EXPANSION JOINT	66	LF
JOINT SEAL (MR 1")	33	LF
JOINT SEAL (MR 1 1/2")	33	LF

Matthew Lee 12-10-12
DESIGN ENGINEER

	BY	CHECKED
DESIGN	A. Frank	Q. Vo
DETAILS	N. Kelley	Q. Vo
QUANTITIES	A. Frank	Q. Vo

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

	BY	CHECKED
LAYOUT	N. Kelley	Q. Vo
SPECIFICATIONS	Dave Klein	PLANS AND SPECS COMPARED: Dave Klein

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 101 & 271 BRIDGES
GENERAL PLAN NO. 2

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0100020281
CONTRACT NO.: 01-0A4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
2-25-11	1-25-13	2-14-13	12-27-12	2	13

FILE => 01-0a4201_02gp.dgn

USERNAME => s121116 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 11:30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101,271	Var	14	24

Arlene Frank — 1-8-13
REGISTERED CIVIL ENGINEER — DATE

February 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ARLENE FRANK — No. C 55562 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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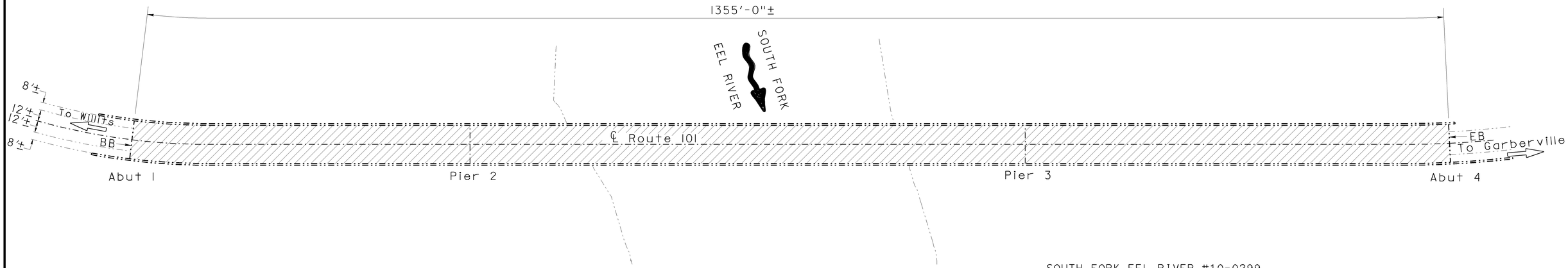
NOTES: (APPLY TO THIS SHEET ONLY)

-·-·-·- Indicates existing.

Indicates limits of prepare concrete bridge deck and place high molecular weight methacrylate.



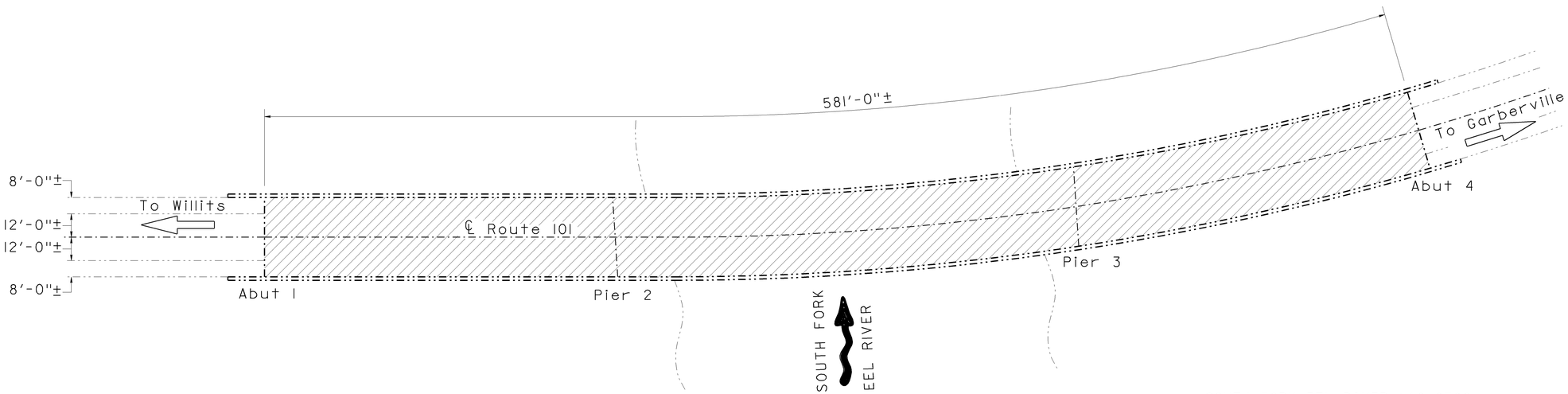
SOUTH FORK EEL RIVER

BR NO. 10-0299, ROUTE 101, Men, PM R99.50
1"=50'

SOUTH FORK EEL RIVER #10-0299

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	54,200	SQFT
TREAT BRIDGE DECK	54,200	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	730	GAL



SOUTH FORK EEL RIVER

BR NO. 10-0300, ROUTE 101, Men, PM R100.02
1"=30'

SOUTH FORK EEL RIVER #10-0300

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	22,860	SQFT
TREAT BRIDGE DECK	22,860	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	310	GAL

Matthew Lee — 12-10-12
DESIGN ENGINEER

DESIGN	BY A. Frank	CHECKED Q. Vo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY N. Kelley	CHECKED Q. Vo	LAYOUT	BY N. Kelley	CHECKED Q. Vo	
QUANTITIES	BY A. Frank	CHECKED Q. Vo	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein	

STATE OF **CALIFORNIA** DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.
VARIOUS
POST MILE
VARIES

ROUTE 101 & 271 BRIDGES
GENERAL PLAN NO. 3

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: 0100020281
CONTRACT NO.: 01-0A4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-25-11	12-27-12	1-25-13	2-14-13	3	13

FILE => 01-0a4201_03gp.dgn

USERNAME => s121116 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 11:31

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Men	101,271	Var	15	24

Arlene Frank 1-8-13
REGISTERED CIVIL ENGINEER DATE

February 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ARLENE FRANK — No. C 55562 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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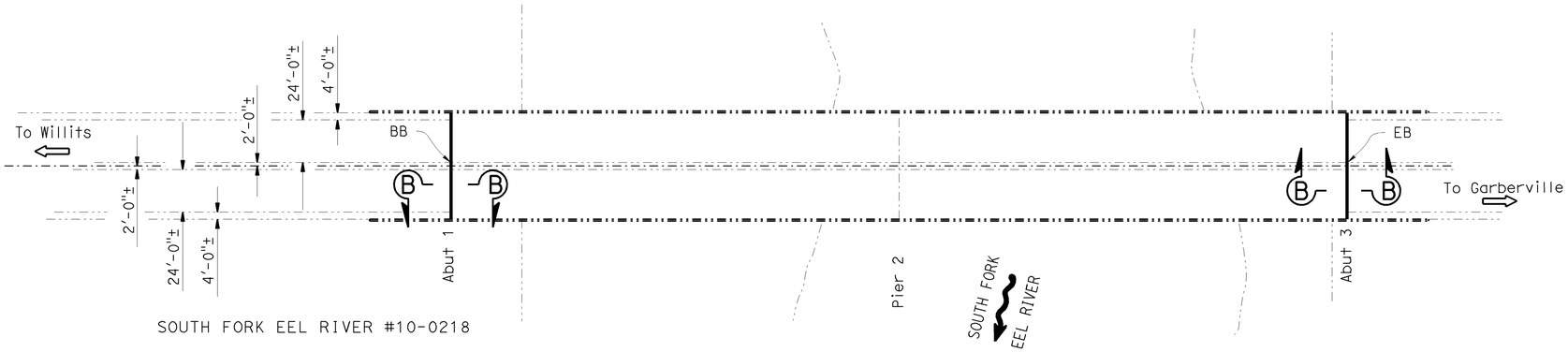


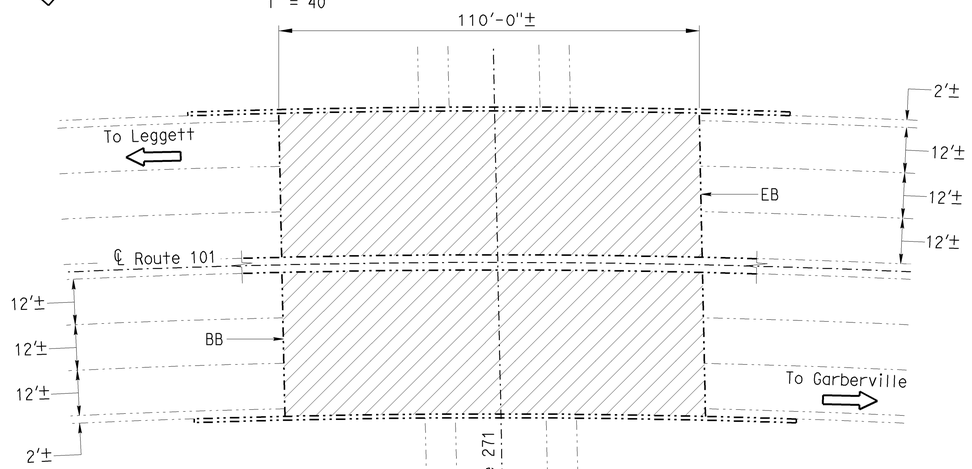
SOUTH FORK EEL RIVER #10-0218

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	15	CY
DRILL AND BOND DOWEL	120	LF
JOINT SEAL (MR 2")	122	LF
BAR REINFORCING STEEL (BRIDGE)	1,340	LB

SOUTH FORK EEL RIVER

Br No. 10-0218, ROUTE 101, PM R106.57
1" = 40'



NOTES: (APPLY TO THIS SHEET ONLY)

Indicates existing.

Indicates limits of clean existing expansion joint and placement of new joint seal.

Indicates limits of remove 1"± AC overlay, prepare concrete bridge deck and place 1" polyester concrete overlay. Prior to prepare bridge deck remove unsound concrete and patch with rapid setting concrete. See "DECK DETAILS NO. 2 " sheet.

For SECTION B-B see "JOINT SEAL DETAILS NO.1" sheet

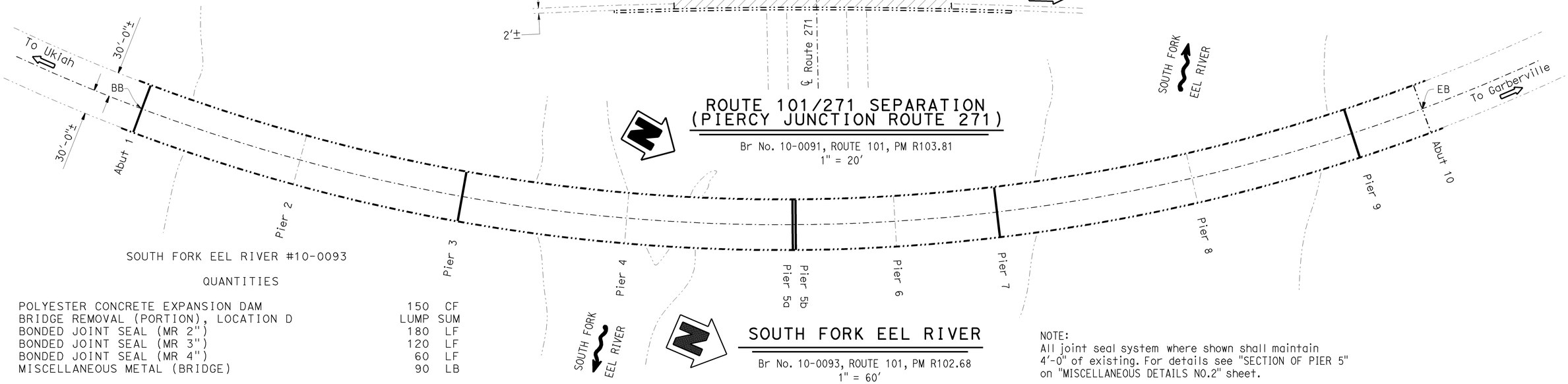
ROUTE 101/271 SEP #10-0091

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	65	CF
REMOVE ASPHALT CONCRETE SURFACING	8,880	SQFT
REMOVE UNSOUND CONCRETE	65	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	8,880	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	890	CF
PLACE POLYESTER CONCRETE OVERLAY	8,880	SQFT

ROUTE 101/271 SEPARATION (PIERCY JUNCTION ROUTE 271)

Br No. 10-0091, ROUTE 101, PM R103.81
1" = 20'



SOUTH FORK EEL RIVER #10-0093

QUANTITIES

POLYESTER CONCRETE EXPANSION DAM	150	CF
BRIDGE REMOVAL (PORTION), LOCATION D	LUMP	SUM
BONDED JOINT SEAL (MR 2")	180	LF
BONDED JOINT SEAL (MR 3")	120	LF
BONDED JOINT SEAL (MR 4")	60	LF
MISCELLANEOUS METAL (BRIDGE)	90	LB

SOUTH FORK EEL RIVER

Br No. 10-0093, ROUTE 101, PM R102.68
1" = 60'

NOTE:
All joint seal system where shown shall maintain 4'-0" of existing. For details see "SECTION OF PIER 5" on "MISCELLANEOUS DETAILS NO.2" sheet.

Matthew DeLee 12-10-12
DESIGN ENGINEER

DESIGN	BY A. Frank	CHECKED Q. Vo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY N. Kelley	CHECKED Q. Vo	LAYOUT	BY N. Kelley	CHECKED Q. Vo
QUANTITIES	BY A. Frank	CHECKED Q. Vo	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 101 & 271 BRIDGES
GENERAL PLAN NO. 4

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: 0100020281
CONTRACT NO.: 01-0A4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
9-5-12	12-27-12	1-28-13	2-14-13	4	13

FILE => 01-0a4201_04gp.dgn

USERNAME => s1211716 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 11:31

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101,271	Var	16	24

Arlene Frank 1-8-13
REGISTERED CIVIL ENGINEER DATE

February 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ARLENE FRANK — No. C 55562 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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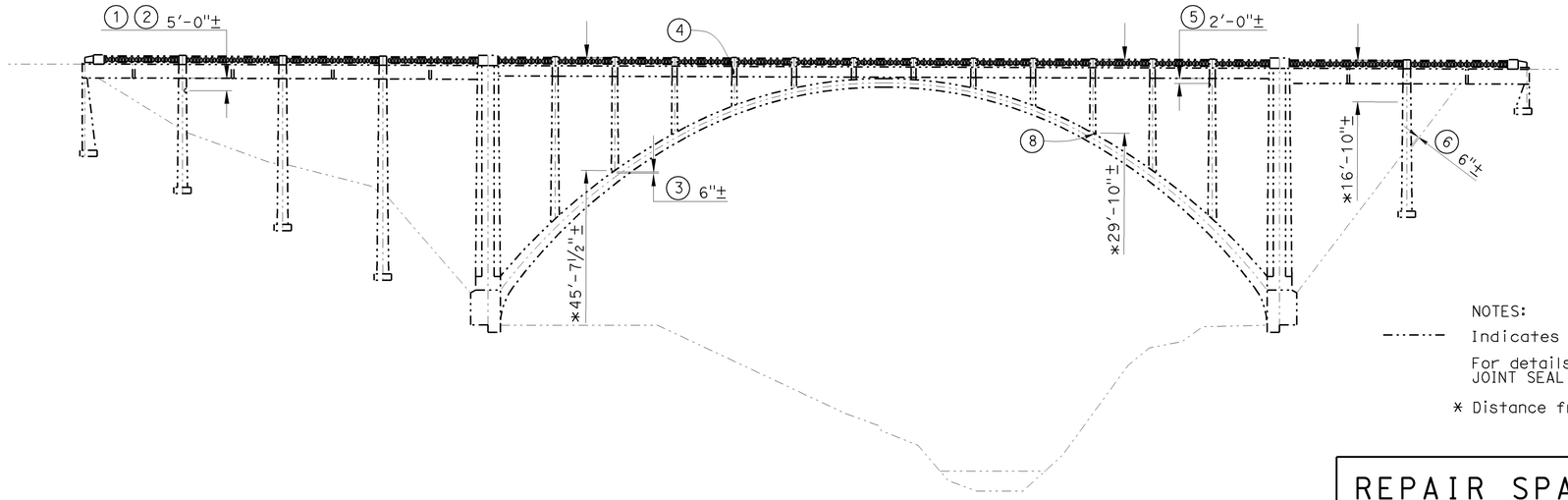


ELEVATION

NOTES:

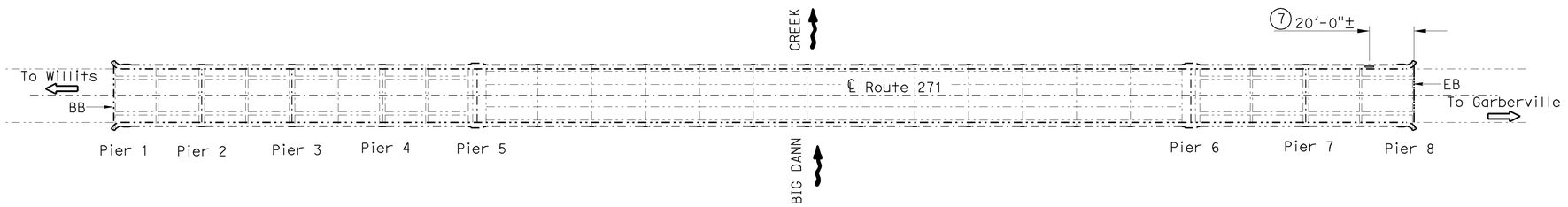
-·-·-·- Indicates existing.

For details see "SPALL REPAIR DETAILS" on JOINT SEAL DETAILS NO.1 sheet.

* Distance from top of bridge barrier rail to spall.

REPAIR SPALLED SURFACE TABLE

#	LOCATION	DIMENSION	DEPTH (IN)
①	Left Column Pier 2	2′-0"± x 2′-0"±	4
②	Right Column Pier 2	1′-8"± x 1′-0"±	4
③	Right Spandrel Column 2	0′-4"± x 0′-10"±	4
④	Overhang beam Spandrel 4	0′-6"± x 2′-0"±	4
⑤	Right Spandrel Column 12	0′-4"± x 1′-0"±	4
⑥	Left Column Pier 7	0′-8"± x 0′-4"±	4
⑦	Top of Rail	0′-8"± x 4′-0"±	4
⑧	Right Spandrel Column 10	0′-9"± x 0′-6"±	4



BIG DANN CREEK

BR NO. 10-0030, ROUTE 271, Men, PM 4.92
1"=30′

BIG DANN CREEK BR #10-0030

QUANTITIES

REPAIR SPALLED SURFACE AREA 10 SQFT

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

Matthew Welker 12-10-12
DESIGN ENGINEER

DESIGN	BY A. Frank	CHECKED Q. Vo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY N. Kelley	CHECKED Q. Vo	LAYOUT	BY N. Kelley	CHECKED Q. Vo		
QUANTITIES	BY A. Frank	CHECKED Q. Vo	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 101 & 271 BRIDGES
GENERAL PLAN NO. 5

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: 0100020281
CONTRACT NO.: 01-0A4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7-05-11	1-25-13	2-14-13	12-27-12	5	13

FILE => 01-0a4201_05gp.dgn

USERNAME => s1211176 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 11:31

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101,271	Var	17	24

Arlene Frank — 1-8-13
REGISTERED CIVIL ENGINEER — DATE

February 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ARLENE FRANK — No. C 55562 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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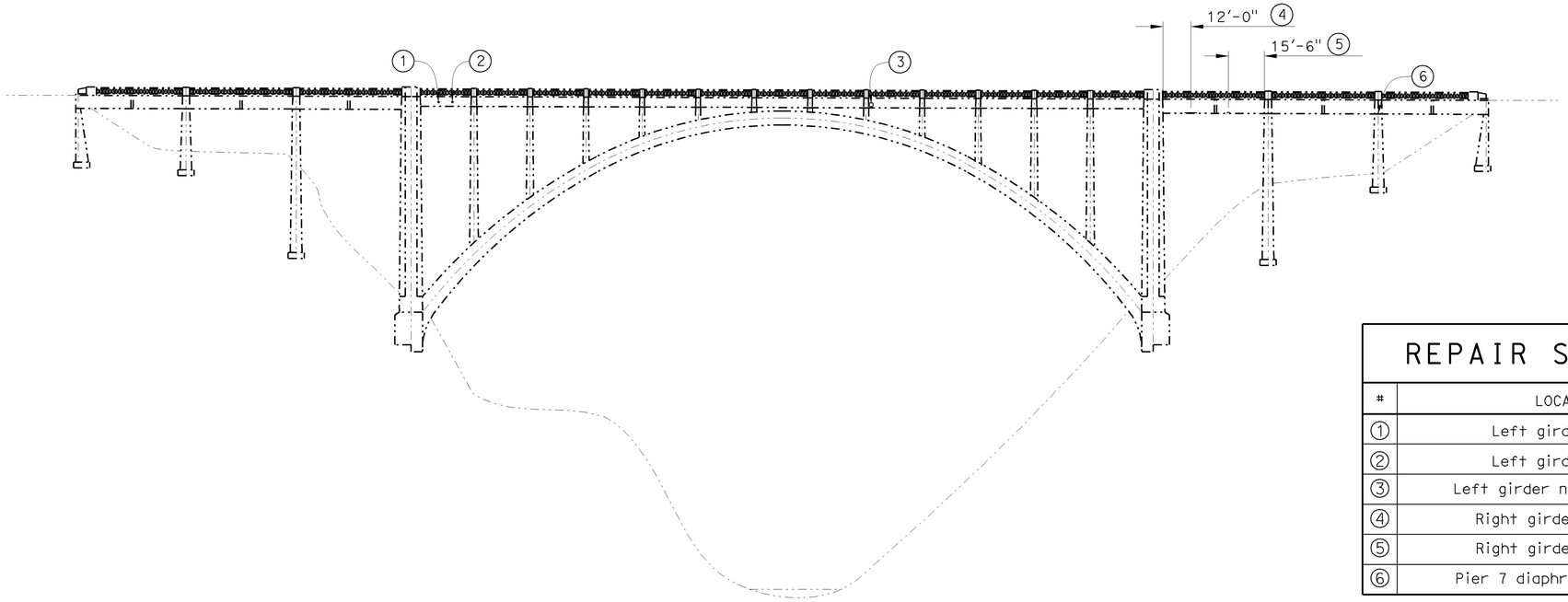


ELEVATION

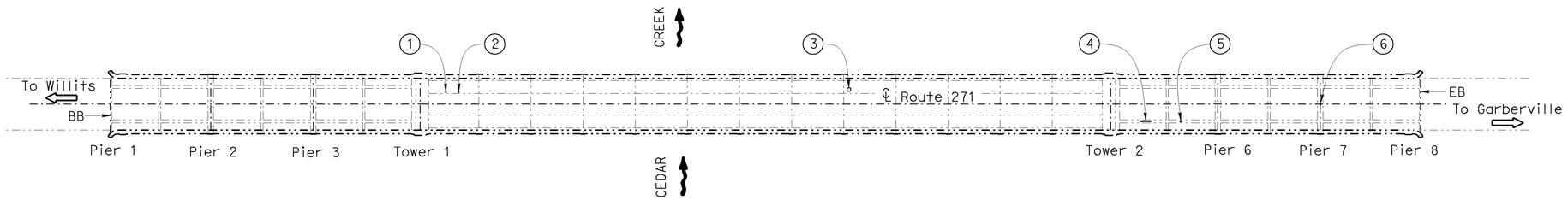
REPAIR SPALLED SURFACE TABLE

#	LOCATION	DIMENSION	DEPTH (IN)
①	Left girder Span 4	0'-6"± x 0'-6"±	3
②	Left girder Span 4	0'-6"± x 0'-6"±	3
③	Left girder near Spandrel 8	1'-6"± x 1'-6"±	4
④	Right girder underside	5'-0" LONG	3
⑤	Right girder underside	0'-6"± x 1'-0"±	3
⑥	Pier 7 diaphragm underside	0'-4"± x 1'-0"±	3

NOTES:

-·-·-·- Indicates existing.

For details see "SPALL REPAIR DETAILS" on JOINT SEAL DETAILS NO.1 sheet.



CEDAR CREEK

BR NO. 10-0031, ROUTE 271, Men, PM 5.22
1"=30'

CEDAR CREEK BR #10-0031

QUANTITIES

REPAIR SPALLED SURFACE AREA 9 SQFT

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

Matthew Welker 12-10-12
DESIGN ENGINEER

DESIGN	BY A. Frank	CHECKED Q. Vo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY N. Kelley	CHECKED Q. Vo	LAYOUT	BY N. Kelley	CHECKED Q. Vo		
QUANTITIES	BY A. Frank	CHECKED Q. Vo	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 101 & 271 BRIDGES
GENERAL PLAN NO. 6

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: 0100020281
CONTRACT NO.: 01-0A4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7-07-11	1-25-13	11-26-12	12-27-12	6	13

FILE => 01-0a4201_06gp.dgn

USERNAME => s1211176 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 11:31

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101,271	Var	18	24

Arlene Frank 1-8-13
REGISTERED CIVIL ENGINEER DATE

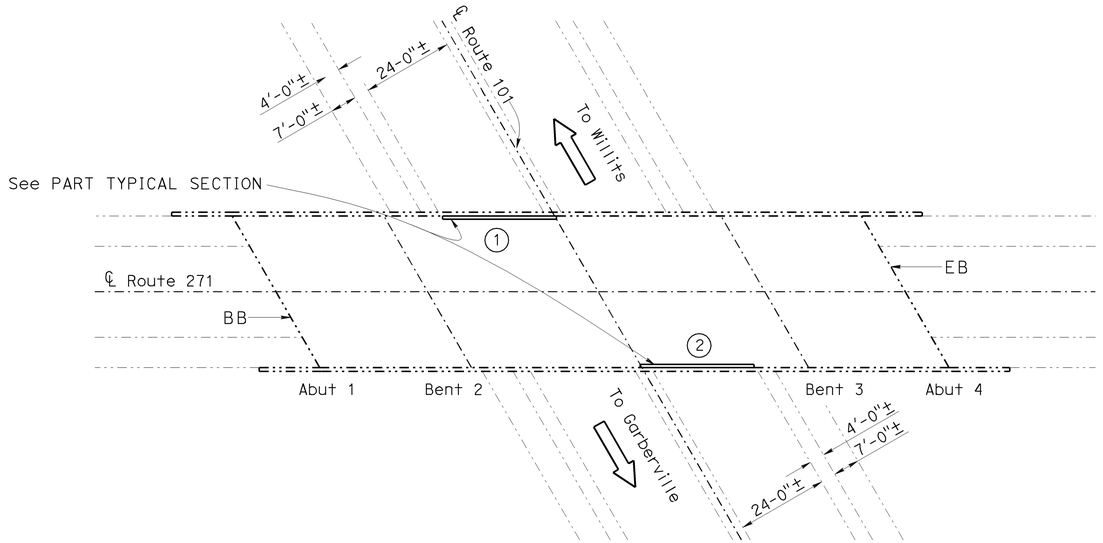
February 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ARLENE FRANK — No. C 55562 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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

NOTES: (APPLY TO THIS SHEET ONLY)

① ② Repair spalled surface areas.



ROUTE 271/101 SEPARATION

BR NO. 10-0135, ROUTE 271, Men, PM 5.58
1"=20'

REPAIR SPALLED SURFACE TABLE

#	LOCATION	DIMENSION (ft)	DEPTH (IN)
①	Left edge of exterior girder	27.7± x 0.75±	2±
②	Right edge of exterior girder	27.7± x 0.75±	2±

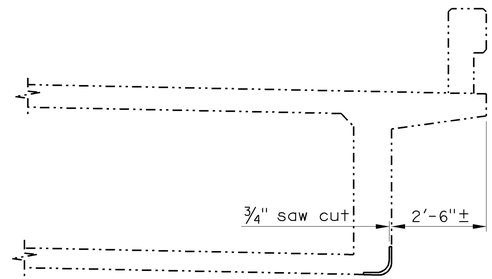
NOTE:
-·-·-·- Indicates existing.

For details see "SPALL REPAIR DETAILS" on JOINT SEAL DETAILS NO.1 sheet.

ROUTE 271/101 SEP #10-0135

QUANTITIES

REPAIR SPALLED SURFACE AREA	12	SQFT



PART TYPICAL SECTION

½"=1'-0"

NOTE:
Right part typical section shown left part typical section is similar.

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

Matthew Lee 12-10-12
DESIGN ENGINEER

DESIGN	BY A. Frank	CHECKED Q. Vo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY N. Kelley	CHECKED Q. Vo	LAYOUT	BY N. Kelley	CHECKED Q. Vo		
QUANTITIES	BY A. Frank	CHECKED Q. Vo	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 101 & 271 BRIDGES
GENERAL PLAN NO. 7

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: 0100020281
CONTRACT NO.: 01-0A4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
1-07-11	12-27-12	1-28-13	2-14-13	7	13

FILE => 01-0a4201_07gp.dgn

USERNAME => s121116 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 11:32

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101,271	Var	19	24

Arlene Frank 1-8-13
REGISTERED CIVIL ENGINEER DATE

February 19, 2013
PLANS APPROVAL DATE

ARLENE FRANK No. C 55562 Exp. 12-31-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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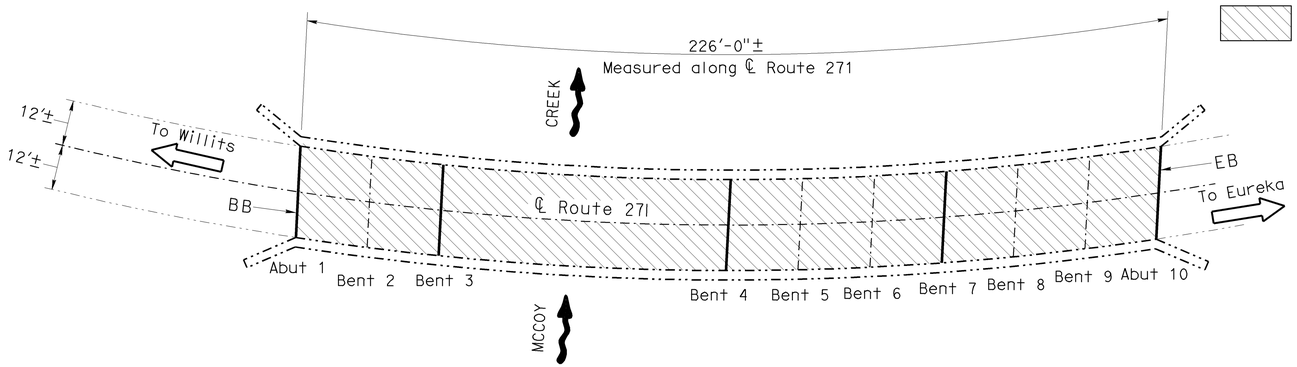
NOTES: (APPLY TO THIS SHEET ONLY)

Indicates existing.

Indicates location of clean expansion joint and place new joint seal with polyester concrete expansion dam.

Indicates limits of remove 2"± AC overlay. Prepare bridge deck and treat bridge deck with methacrylate. Place slurry leveling course. Place new deck seal and new 1" HMA (Type B) overlay. Prior to prepare bridge deck remove unsound concrete and patch with rapid setting concrete.



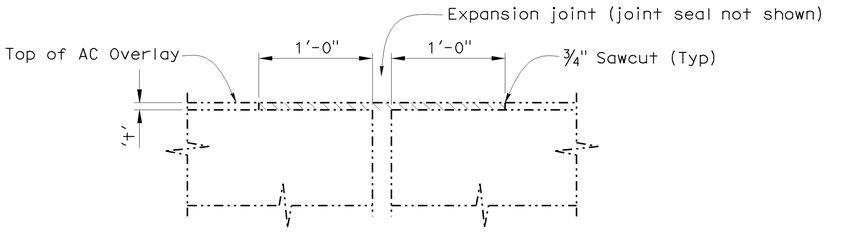
McCOY CREEK

BR NO. 10-0036, ROUTE 271, Men, PM 17.88
1'=20'

MCCOY CREEK BRIDGE #10-0036

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	42	CF
REMOVE ASPHALT CONCRETE SURFACING	5,500	SQFT
REMOVE UNSOUND CONCRETE	42	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,500	SQFT
POLYESTER CONCRETE EXPANSION DAM	20	CF
TREAT BRIDGE DECK	5,550	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	60	GAL
HOT MIX ASPHALT (BRIDGE)	35	TON
CLEAN EXPANSION JOINT	123	LF
JOINT SEAL (MR 1")	123	LF
DECK SEAL	5,550	SQFT
SLURRY LEVELING COURSE	1,120	GAL



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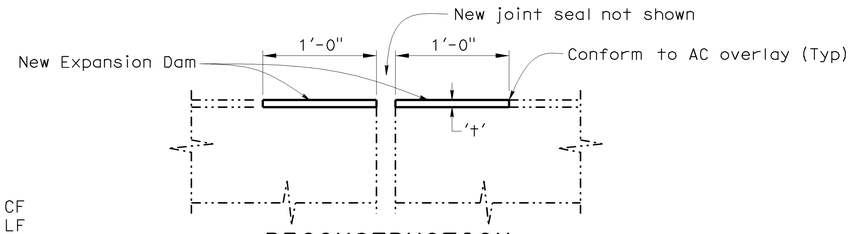


RECONSTRUCTION

SOUTH FORK EEL RIVER #10-0037

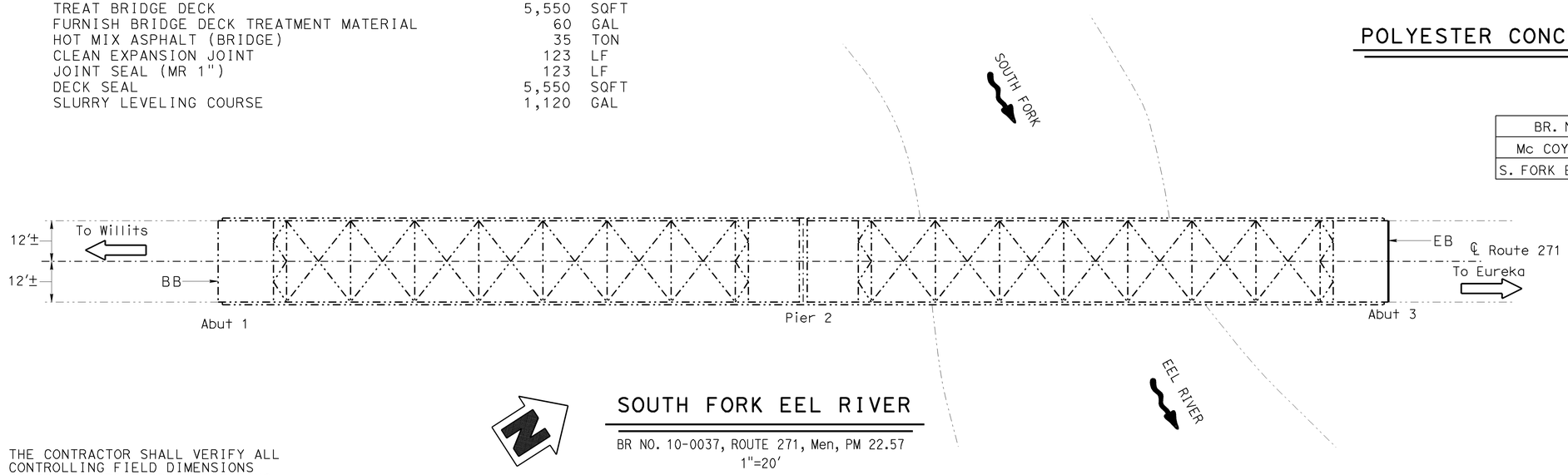
QUANTITIES

POLYESTER CONCRETE EXPANSION DAM	4	CF
CLEAN EXPANSION JOINT	24	LF
JOINT SEAL (MR 1")	24	LF

POLYESTER CONCRETE EXPANSION DAM

1½" = 1'

BR. NAME	t (in)
Mc COY CREEK	1.0±
S. FORK EEL RIVER	1.0±



SOUTH FORK EEL RIVER

BR NO. 10-0037, ROUTE 271, Men, PM 22.57
1"=20'

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

Matthew Wilder 12-10-12 DESIGN ENGINEER	DESIGN	BY A. Frank	CHECKED Q. Vo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS
	DETAILS	BY N. Kelley	CHECKED Q. Vo	LAYOUT	BY N. Kelley	CHECKED Q. Vo			POST MILE VARIES
	QUANTITIES	BY A. Frank	CHECKED Q. Vo	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein			

ROUTE 101 & 271 BRIDGES
GENERAL PLAN NO. 8

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: 0100020281
CONTRACT NO.: 01-0A4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
2-14-13	2-15-13	12-27-12	1-25-13	8	13

FILE => 01-0a4201_08gp.dgn

USERNAME => s\211116 DATE PLOTTED => 15-FEB-2013 TIME PLOTTED => 08:28

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101,271	Var	20	24

Arlene Frank — REGISTERED CIVIL ENGINEER — 1-8-13 DATE

February 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ARLENE FRANK — No. C 55562 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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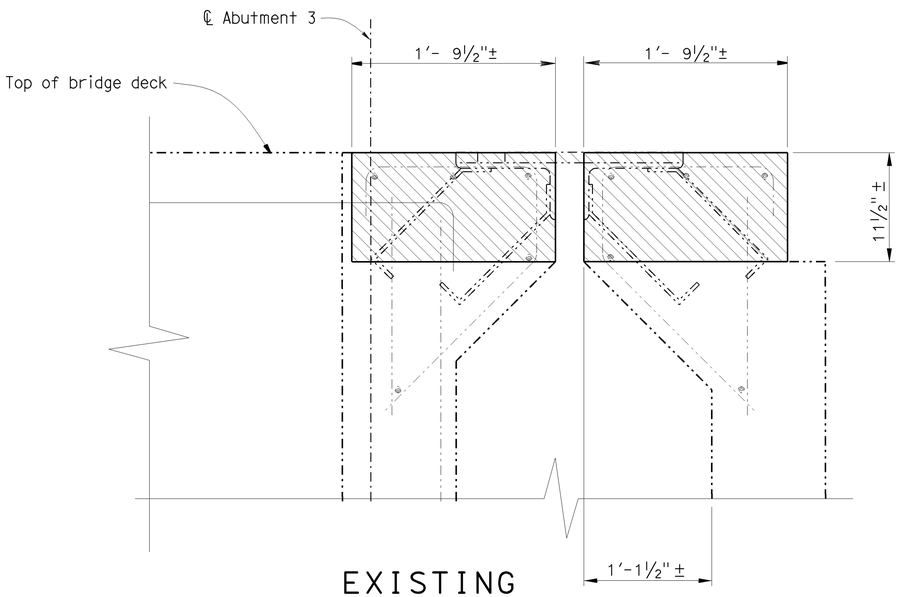
NOTES: (APPLY TO THIS SHEET ONLY)

Indicates existing.

Indicates limits of remove existing concrete and steel joint assembly in bridge deck and bridge barrier rail. Retain existing reinforcing steel (except where noted otherwise).

"b" Reconstructed gap width as determined by the Engineer.



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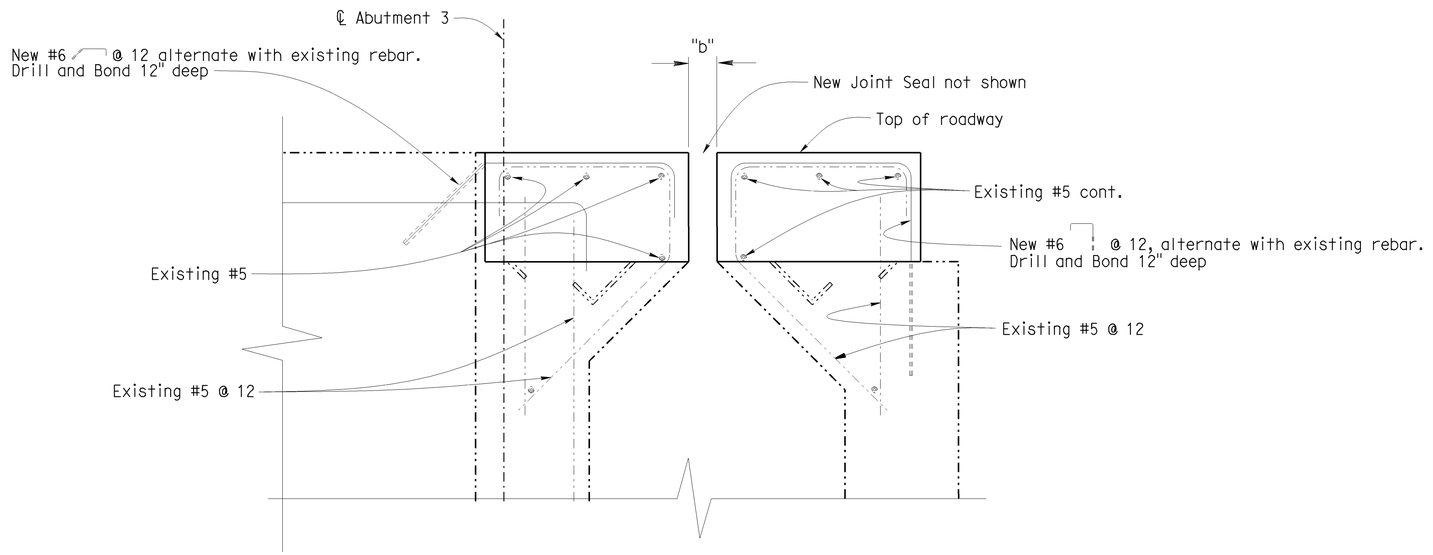
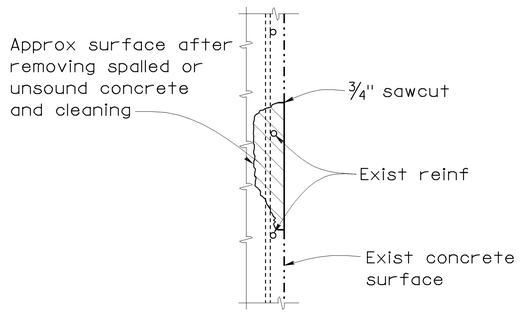


RECONSTRUCTION

SECTION B-B

Abutment 3 shown
Abutment 1 similar
(South Fork Eel River BR NO. 10-0218)
1½" = 1'-0"



SPALL REPAIR DETAIL

Note: Reinforcement may be encountered during concrete removal.
NO SCALE

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

TEMPORARY DECK PLATE		
MOMENT DEMAND/FOOT $\left(\frac{\text{kip-ft}}{\text{ft}}\right)$	BOLT SHEAR/FOOT $\left(\frac{\text{kip}}{\text{ft}}\right)$	BOLT TENSION (Kip)
4	6.4	150

NOTES:

Plate thickness shall be ≥ ⅞"

Plate deflection shall not be greater than S/300 (S = Span)

Maximum spacing of anchorages is 12"

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 = 60,000 psi f'c = 3600 psi

DESIGN	BY A. Frank	CHECKED Q. Vo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS POST MILE VARIES
DETAILS	BY N. Kelley	CHECKED Q. Vo			
QUANTITIES	BY A. Frank	CHECKED Q. Vo			

ROUTE 101 & 271 BRIDGES
JOINT SEAL DETAILS NO.1

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: 0100020281
CONTRACT NO.: 01-0A4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
9-28-12	1-25-13	2-14-13	12-27-12	9	13

FILE => 01-0a4201_09jsdet01.dgn

USERNAME => s12116 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 11:32

BRIDGE NO.	BRIDGE NAME	LOCATION		MINIMUM "MR" (INCHES)	APPROX LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
10-0179	ARNOLD BRIDGE & OVERHEAD	PIER 3	EJ	1*	70.5	YES	8
		PIER 4	EJ	1*	60.5	YES	8
		PIER 5	EJ	1*	60.5	YES	8
		PIER 6	EJ	1*	60.5	YES	8
		PIER 7	EJ	1*	60.5	YES	8
		PIER 8	EJ	1*	60.5	YES	8
		PIER 9	EJ	1*	60.5	YES	8
		ABUT 10	BW	1*	60.5	YES	8
10-0053	JITNEY GULCH	ABUT 1	BW	1*	31	YES	6
		SPAN 2a	H	1/2	31	YES	6
		SPAN 2b	H	1/2	31	YES	6
		ABUT 4	BW	1*	31	YES	6
10-0126	ROCK CREEK	ABUT 1	BW	1	40.5	YES	9
		ABUT 4	BW	1 1/2	40.5	YES	9
10-0033	BRIDGES CREEK	ABUT 1	BW	1 1/2	33	NO	78
		ABUT 2	BW	1	33	NO	78
10-0093	SOUTH FORK EEL RIVER	ABUT 1	BW	2*	60	NO	96
		PIER 3	EJ	4*	60	NO	96
		PIER 5a	EJ	3*	60	NO	96
		PIER 5b	EJ	3*	60	NO	96
		PIER 7	EJ	2*	60	NO	96
		PIER 9	EJ	2*	60	NO	96
10-0218	SOUTH FORK EEL RIVER	ABUT 1	BW	2	61	NO	18
		ABUT 3	BW	2	61	NO	18
10-0036	McCOY CREEK	ABUT 1	EJ	1	24.5	NO	13
		BENT 3	EJ	1	24.5	NO	7
		BENT 4	EJ	1	24.5	NO	7
		BENT 7	EJ	1	24.5	NO	7
		ABUT 10	BW	1	24.5	NO	13
10-0037	SOUTH FORK EEL RIVER	ABUT 3	BW	1	24	NO	8

NOTES:

* Bonded Joint Seal
BW Backwall
EJ Expansion Joint
H Hinge

DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
ARNOLD BOH	10-0179	3	3
BRIDGES CREEK	10-0033	1	3
McCOY CREEK	10-0036	3	3
ROUTE 101/271 SEP	10-0091	3	3

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

The following notes apply to JOINT SEAL TYPE B

1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
3) W1 shall be the smaller of the values determined as follows:
   A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
   B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
4) Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
5) For details not shown, see B6-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101,271	Var	21	24

Arlene Frank — REGISTERED CIVIL ENGINEER — 1-8-13 DATE

February 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ARLENE FRANK — No. C 55562 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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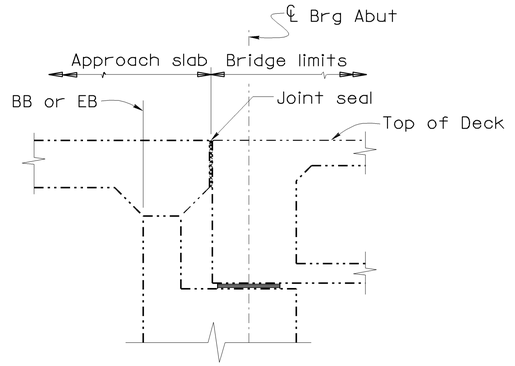
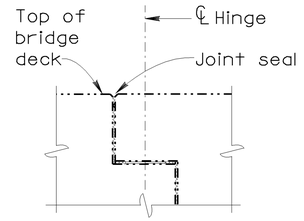
NOTES: (APPLY TO THIS SHEET ONLY)

Indicates existing.

Indicates limits of new polyester concrete.

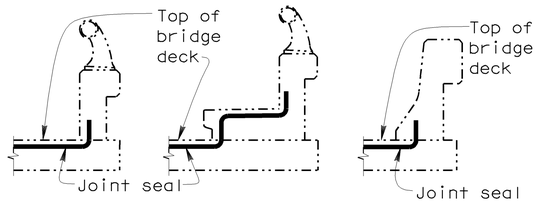


BACK WALL ABUTMENT



HINGE

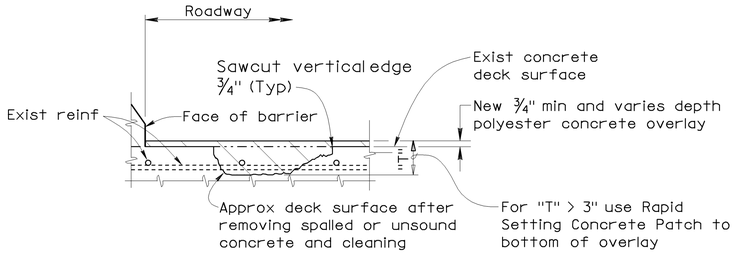
JOINT SEAL AT LOCATION



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.



DECK REPAIR DETAIL - OVERLAY

Note: Reinforcement may be encountered during deck concrete removal.

DESIGN	BY A. Frank	CHECKED Q. Vo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS
DETAILS	BY N. Kelley	CHECKED Q. Vo			POST MILE VARIES
QUANTITIES	BY A. Frank	CHECKED Q. Vo			

ROUTE 101 & 271 BRIDGES
JOINT SEAL DETAILS NO.2

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: 0100020281
CONTRACT NO.: 01-0A4201

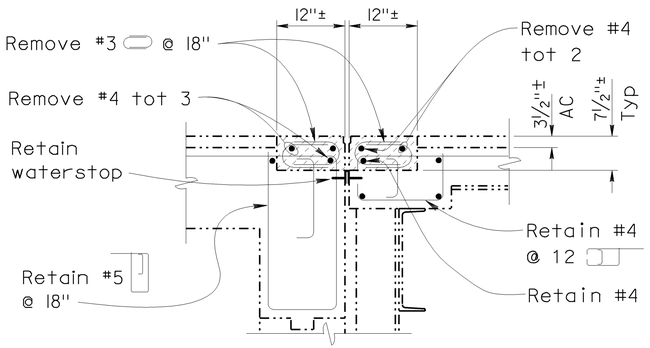
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 9-28-12 | 1-28-13 | 2-14-13 | 12-27-13

SHEET 10 OF 13

FILE => 01-0a4201_10jsdet02.dgn

USERNAME => s1211116 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 11:33



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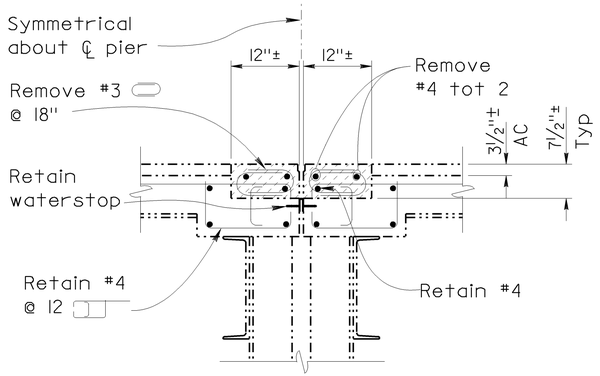

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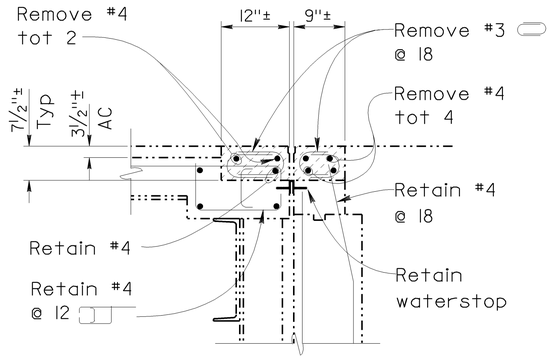

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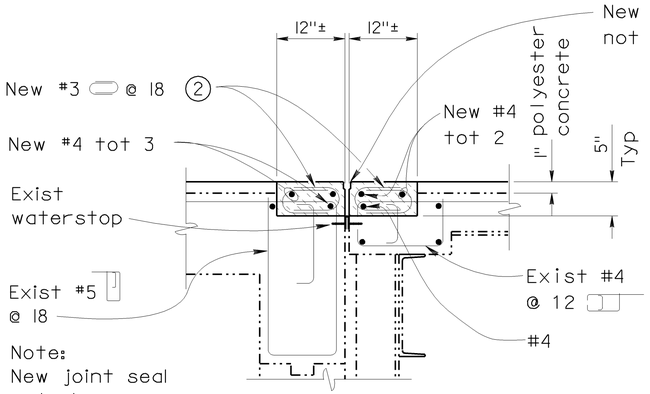
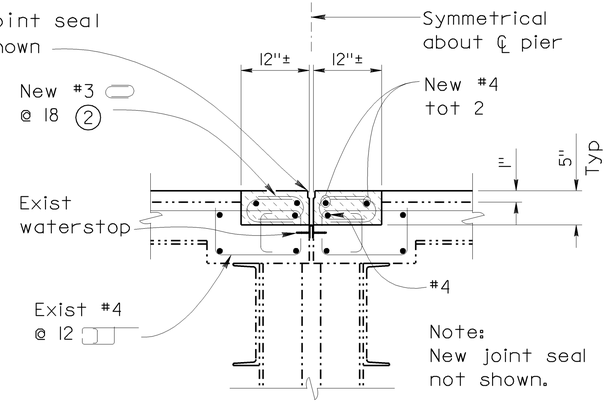


RECONSTRUCTION

SECTION AT PIER 3

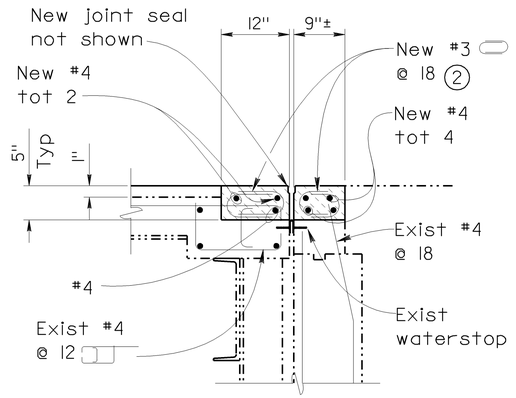
NO SCALE



RECONSTRUCTION

SECTION AT PIERS 4 THRU 9

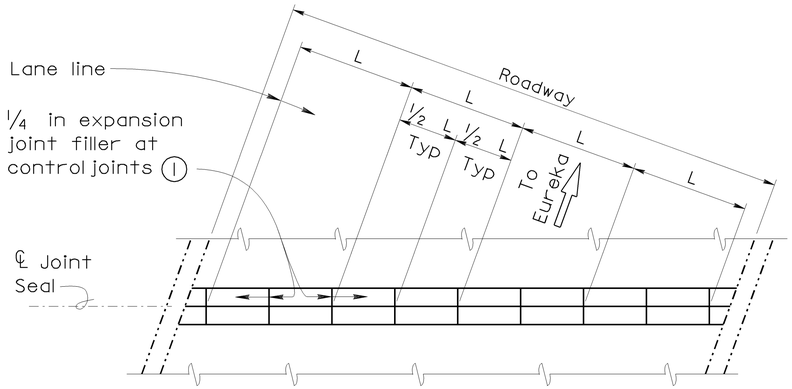
NO SCALE



RECONSTRUCTION

SECTION AT ABUTMENT 10

NO SCALE



TYPICAL PARTIAL EXPANSION DAM PLAN

NO SCALE

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101,271	Var	22	24

Arlene Frank — REGISTERED CIVIL ENGINEER — 1-8-13 DATE

February 19, 2013 — PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ARLENE FRANK — No. C 55562 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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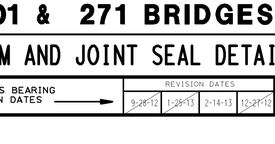
NOTES: (APPLY TO THIS SHEET ONLY)

- ····· Indicates existing.
- Indicates limits of remove existing polyester concrete expansion dam.
- Indicates limits of place new polyester concrete expansion dam.
- (1) Stop longitudinal expansion dam reinforcement 1½" from transverse control joints.
- (2) Stagger bars thusly:



DESIGN	BY A. Frank	CHECKED Q. Vo	
DETAILS	BY N. Kelley	CHECKED Q. Vo	
QUANTITIES	BY A. Frank	CHECKED Q. Vo	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ARNOLD BOH (BR. NO. 10-0179)

ROUTE 101 & 271 BRIDGES

EXPANSION DAM AND JOINT SEAL DETAILS

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: 0100020281
CONTRACT NO.: 01-0A4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
9-28-12	1-25-13	2-14-13	12-27-12	11	13

FILE => 01-0a4201_11expdam01.dgn

USERNAME => s12116 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 11:33

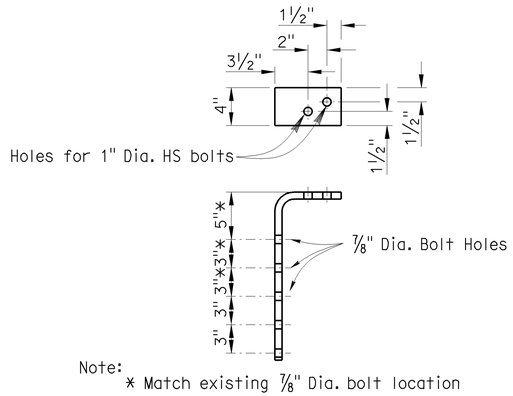
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101,271	Var	23	24

Arlene Frank — REGISTERED CIVIL ENGINEER — 1-8-13 DATE

February 19, 2013 — PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ARLENE FRANK — No. C 55562 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

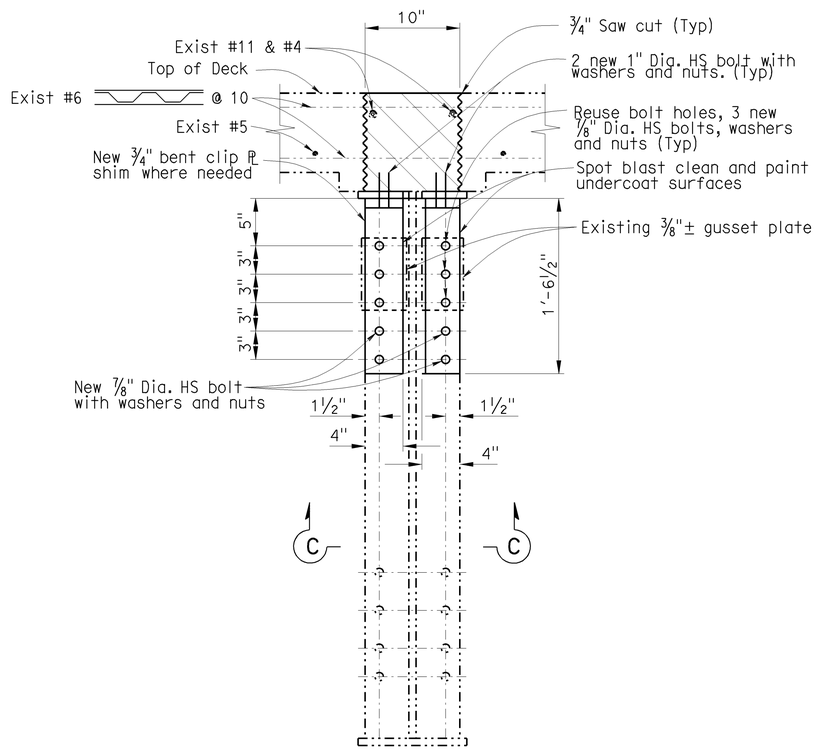
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



Note:
* Match existing 7/8" Dia. bolt location

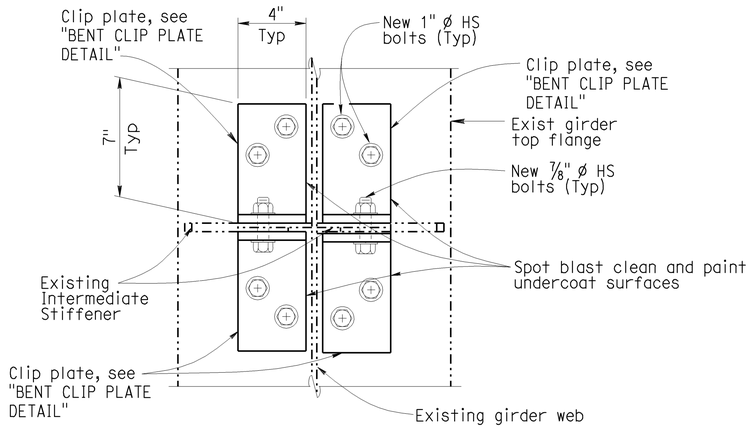
BENT CLIP PLATE DETAIL

1½"=1'-0"



SECTION A-A

1½"=1'-0"



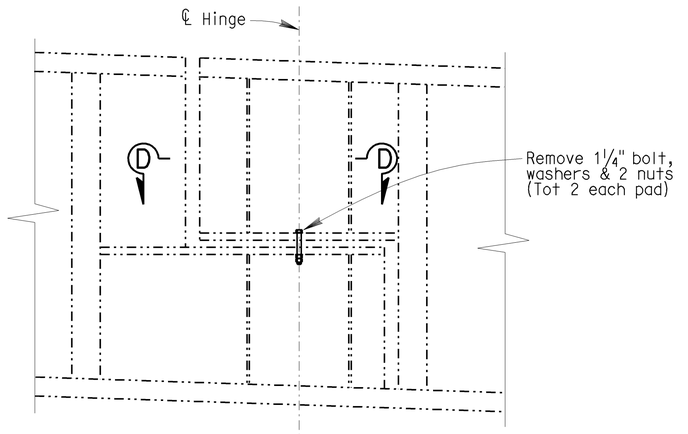
SECTION C-C

NO SCALE

NOTES: (APPLY TO THIS SHEET ONLY)

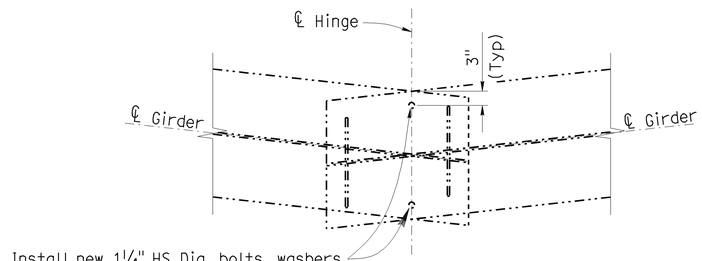
-·-·-·- Indicates existing.

Indicates limits of place structural concrete, 1'-2½" long x 10" wide x 1'-2" deep.



HINGE ELEVATION

¾"=1'-0"



SECTION D-D

¾"=1'-0"

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

DESIGN	BY A. Frank	CHECKED Q. Vo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS
DETAILS	BY N. Kelley	CHECKED Q. Vo			POST MILE VARIES
QUANTITIES	BY A. Frank	CHECKED Q. Vo			

JITNEY GULCH (BR. NO. 10-0053)

ROUTE 101 & 271 BRIDGES

MISCELLANEOUS DETAILS NO.1

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: 0100020281
CONTRACT NO.: 01-0A4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 9-28-12, 12-27-12, 1-28-13, 2-14-13

SHEET 12 OF 13

FILE => 01-0a4201_12misc01.dgn

USERNAME => s121116 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 11:33

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101,271	Var	24	24

Arlene Frank — REGISTERED CIVIL ENGINEER — 1-8-13 DATE

February 19, 2013 — PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ARLENE FRANK — No. C 55562 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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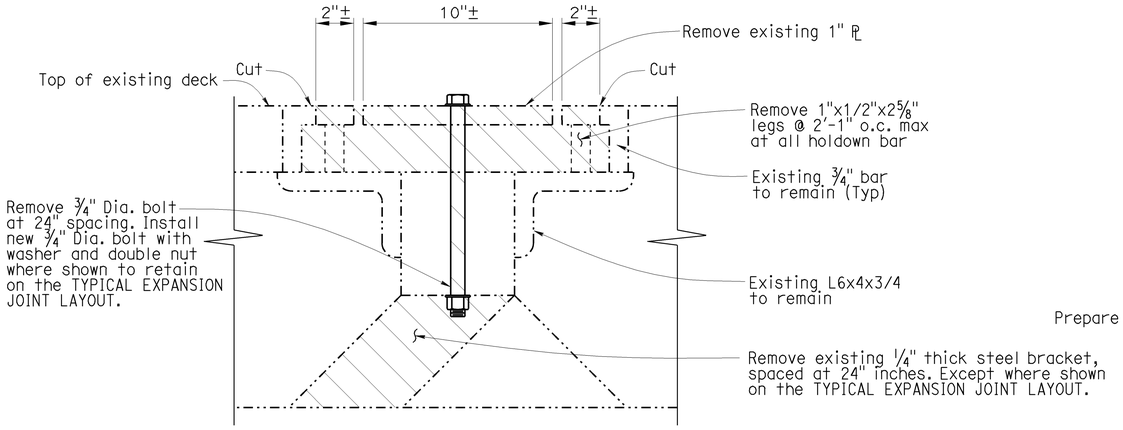
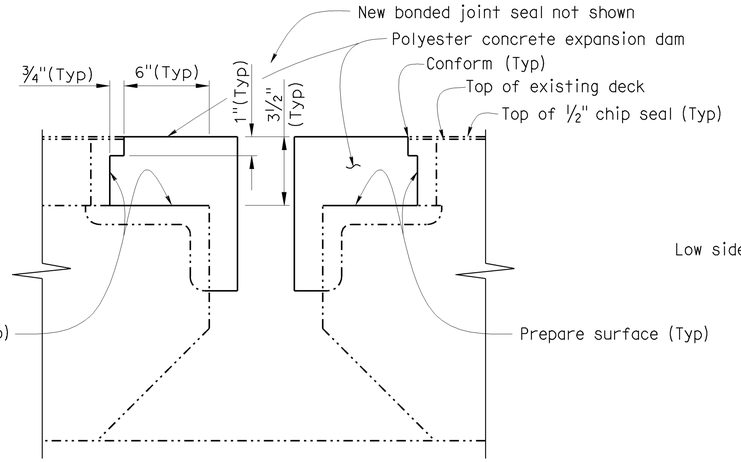


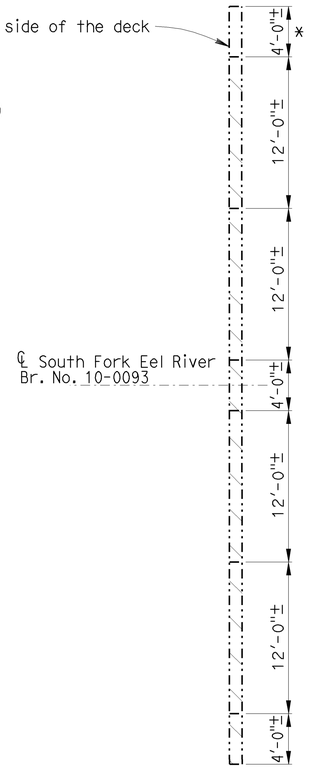
EXISTING EXPANSION JOINT SECTION

3"=1'-0"



RECONSTRUCTION EXPANSION JOINT SECTION

3"=1'-0"



TYPICAL EXPANSION JOINT LAYOUT

⅜"=1'-0"

SECTION OF PIER

1½"=1'-0"

Notes:

* Remove at all locations as shown on the general plan except 4'-0" on the lowest side of the deck. See TYPICAL EXPANSION JOINT LAYOUT. Remove anchor bolts and install new ⅝" Dia. anchor bolts. Remove ¾" Dia. x 1'-8"long bolts, washers and nuts and install all new ¾" Dia. x 2'-0" bolt, neoprene washers (1"), ¼" thick steel plate and 2 nuts.

Pier 5 shown; Abut 1 and Pier 3,7 & 9 joints similar with one expansion joint.

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates existing.

Indicates limits of remove steel expansion system; sliding fingers 1" thick x 2" wide bar (2ea side of joint), 1" x ½" hold downs and steel brackets.

* Section to remain in place. Paint face of cut with zinc rich primer. Replace ¾" Dia. bolt and new washer (neoprene 1" thick), two nuts, snug tight.

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

SOUTH FORK EEL RIVER (BR. NO. 10-0093)

	BY	CHECKED
DESIGN	A. Frank	Q. Vo
DETAILS	N. Kelley	Q. Vo
QUANTITIES	A. Frank	Q. Vo

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	ROUTE 101 & 271 BRIDGES
VARIOUS	
POST MILE	MISCELLANEOUS DETAILS NO.2
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: 0100020281
CONTRACT NO.: 01-0A4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
9-26-12	12-21-12	1-28-13	2-14-13	13	13

FILE => 01-0a4201_13misc02.dgn

USERNAME => s121116 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 11:33