

INDEX OF PLANS

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STRUCTURE PLANS

12-20 ROUTE 5 AND 113 BRIDGES

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

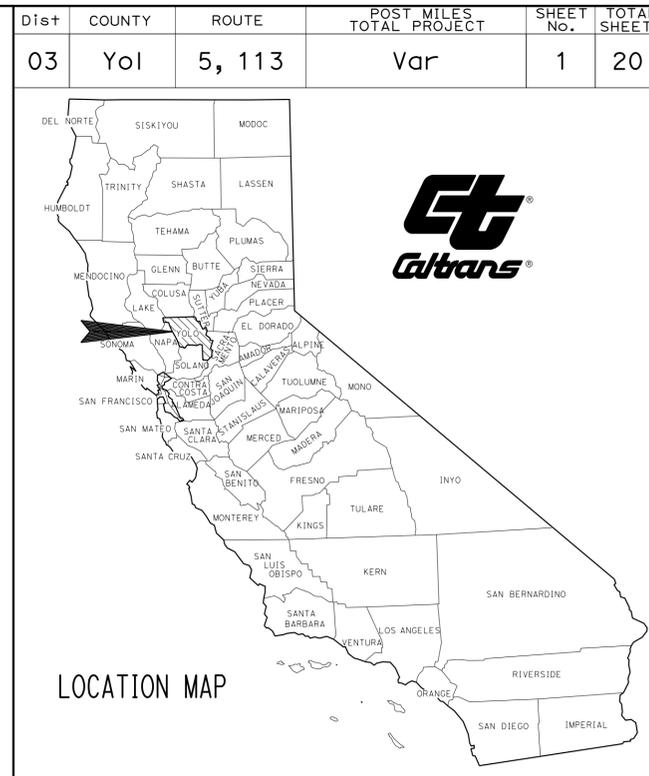
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

ACNHP-000C(403)

PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY

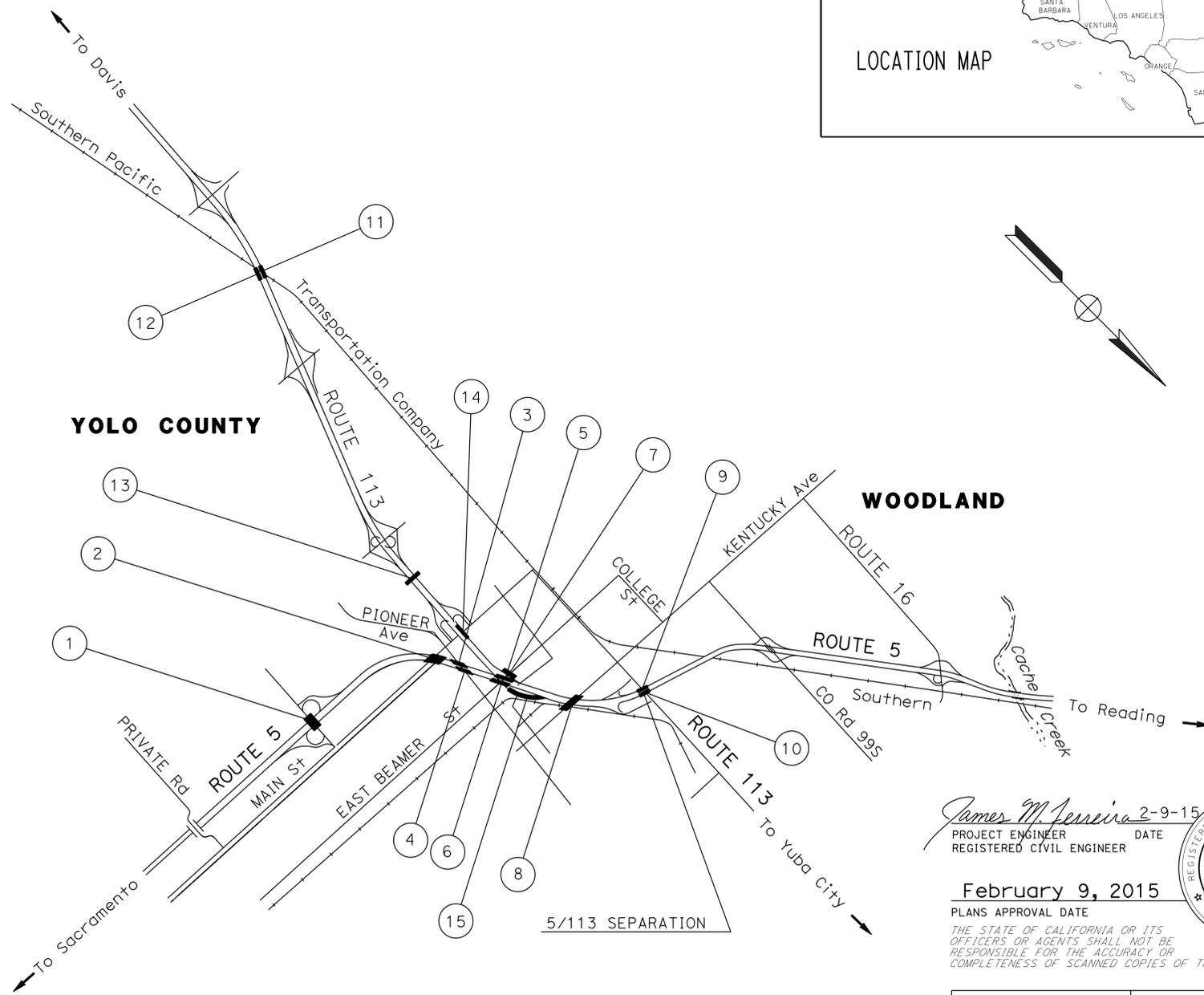
IN YOLO COUNTY  
IN AND NEAR WOODLAND  
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATIONS OF CONSTRUCTION

No.	COUNTY	ROUTE	POST MILE	BRIDGE NAME	BRIDGE No.
1	Yol	5	5.53	County Road 102 OC	22-0144
2	Yol	5	R6.51	Main Street OH	22-0146L
3	Yol	5	R6.63	Pioneer Ave UC	22-0169L
4	Yol	5	R6.65	Pioneer Ave UC	22-0169R
5	Yol	5	R7.10	East Beamer Street UC	22-0173L
6	Yol	5	R7.10	East Beamer Street UC	22-0173R
7	Yol	5	R7.11	South 5-113 Connector UC	22-0174F
8	Yol	5	R7.70	East Kentucky Ave OC	22-0148
9	Yol	5	R8.26	Route 5-113 Separation & OH	22-0152L
10	Yol	5	R8.26	Route 5-113 Separation & OH	22-0152R
11	Yol	113	R6.81	Mullen OH	22-0062L
12	Yol	113	R6.81	Mullen OH	22-0062R
13	Yol	113	R9.61	East Gum Ave OC	22-0192
14	Yol	113	R10.22	East Woodland OH	22-0130L
15	Yol	113	R10.67	Route 113-5 Separation	22-0147R



NO SCALE

James M. Ferreira 2-9-15  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER

February 9, 2015  
PLANS APPROVAL DATE

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



CONTRACT No.	03-OG0504
PROJECT ID	0314000029

PROJECT MANAGER  
RONALD S. SYKES  
DESIGN MANAGER  
RONALD S. SYKES

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN

REVISOR BY DATE

JIM FERREIRA  
 RONALD S. SYKES

CALCULATED-DESIGNED BY  
 CHECKED BY

FUNCTIONAL SUPERVISOR  
 RONALD S. SYKES

**NOTE:**

- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- FOR STRUCTURE INFORMATION SEE GENERAL PLAN AND MISCELLANEOUS DETAILS.

**LEGEND:**

 COLD PLANE AC PAVEMENT

PAVEMENT CLIMATE REGION

INLAND VALLEY

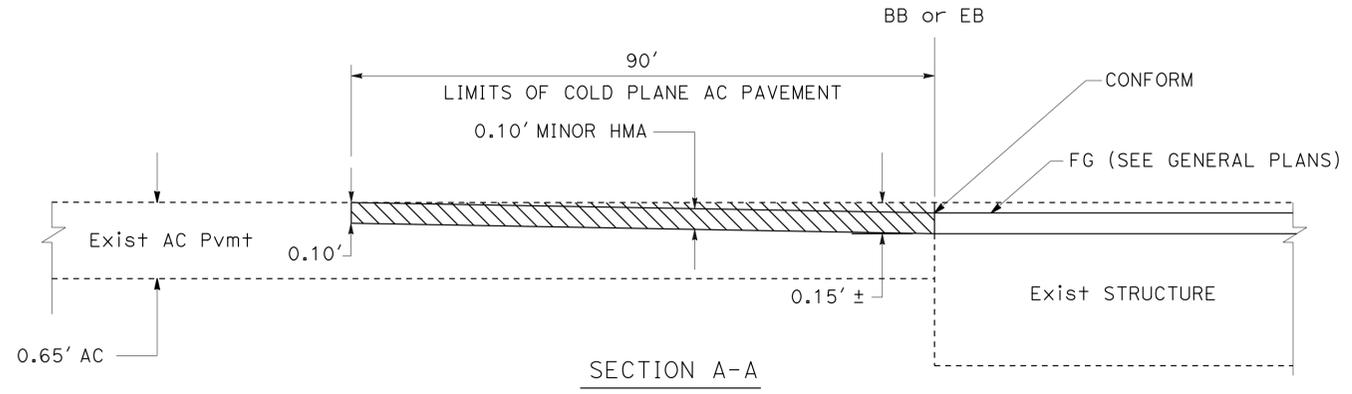
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	2	20

James M. Ferreira 2-9-15  
 REGISTERED CIVIL ENGINEER DATE

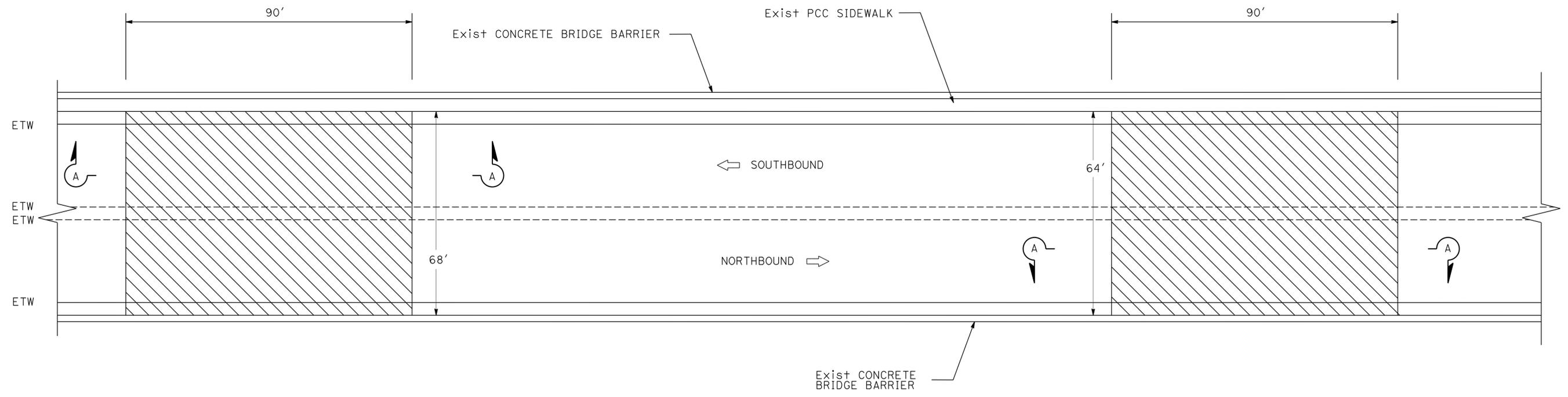
2-9-15  
 PLANS APPROVAL DATE

**JIM FERREIRA**  
 No. C48257  
 Exp. 6-30-16  
 CIVIL

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**BRIDGE CONFORM DETAIL (Typ)**



**PAVEMENT CONFORM AT BRIDGE APPROACH**

PM 5.53 COUNTY ROAD 102 OVERCROSSING BRIDGE NUMBER 22-0144

**CONSTRUCTION DETAILS**

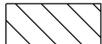
NO SCALE

**C-1**

**NOTE:**

- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- FOR STRUCTURE INFORMATION SEE GENERAL PLAN AND MISCELLANEOUS DETAILS.

**LEGEND:**

 COLD PLANE AC PAVEMENT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	3	20

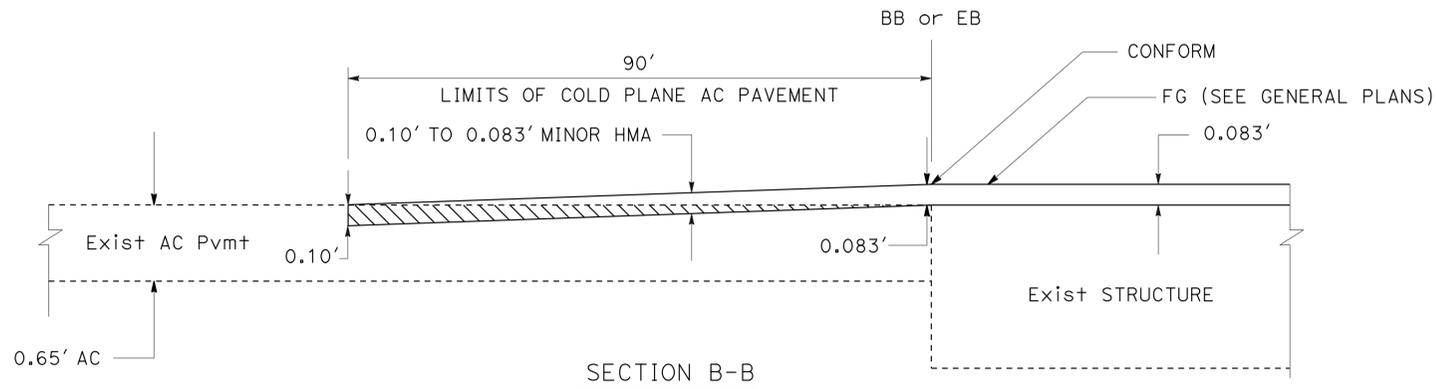
James M. Ferreira 2-9-15  
 REGISTERED CIVIL ENGINEER DATE

2-9-15  
 PLANS APPROVAL DATE

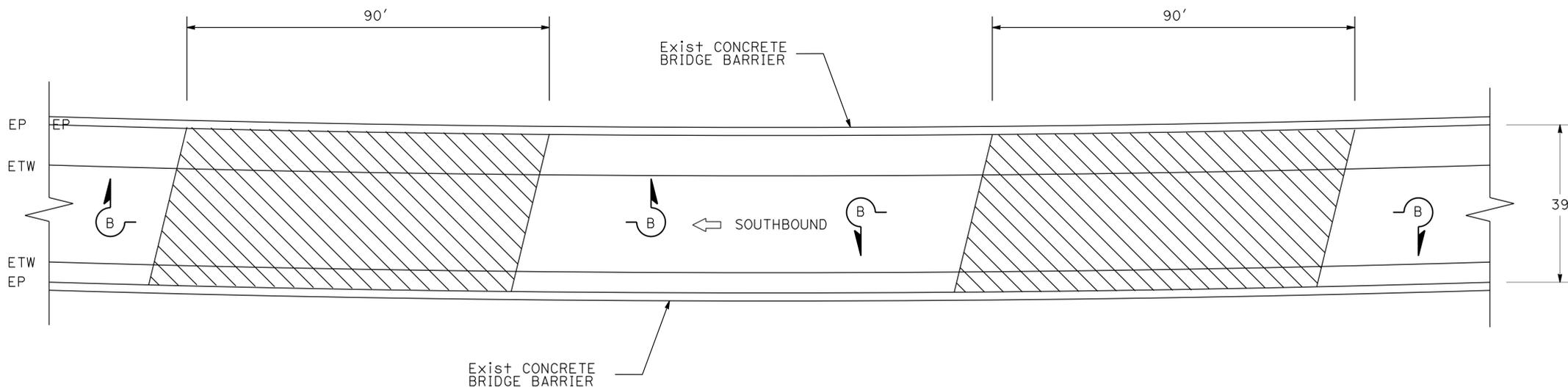
**JIM FERREIRA**  
 No. C48257  
 Exp. 6-30-16  
 CIVIL

REGISTERED PROFESSIONAL ENGINEER  
 STATE OF CALIFORNIA

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**BRIDGE CONFORM DETAIL (Typ)**



**PAVEMENT CONFORM AT BRIDGE APPROACH**

PM R7.11 S5 TO S113 CONNECTOR BRIDGE NUMBER 22-0174F

**CONSTRUCTION DETAILS**

NO SCALE

**C-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN

REVISOR BY DATE

JIM FERREIRA  
 RONALD S. SYKES

CALCULATED/DESIGNED BY CHECKED BY

FUNCTIONAL SUPERVISOR  
 RONALD S. SYKES

USERNAME => s119538  
 DGN FILE => 0314000029ga002.dgn

RELATIVE BORDER SCALE 1" = 10' IN INCHES

UNIT 0484

PROJECT NUMBER & PHASE 03130000291

BORDER LAST REVISED 7/2/2010

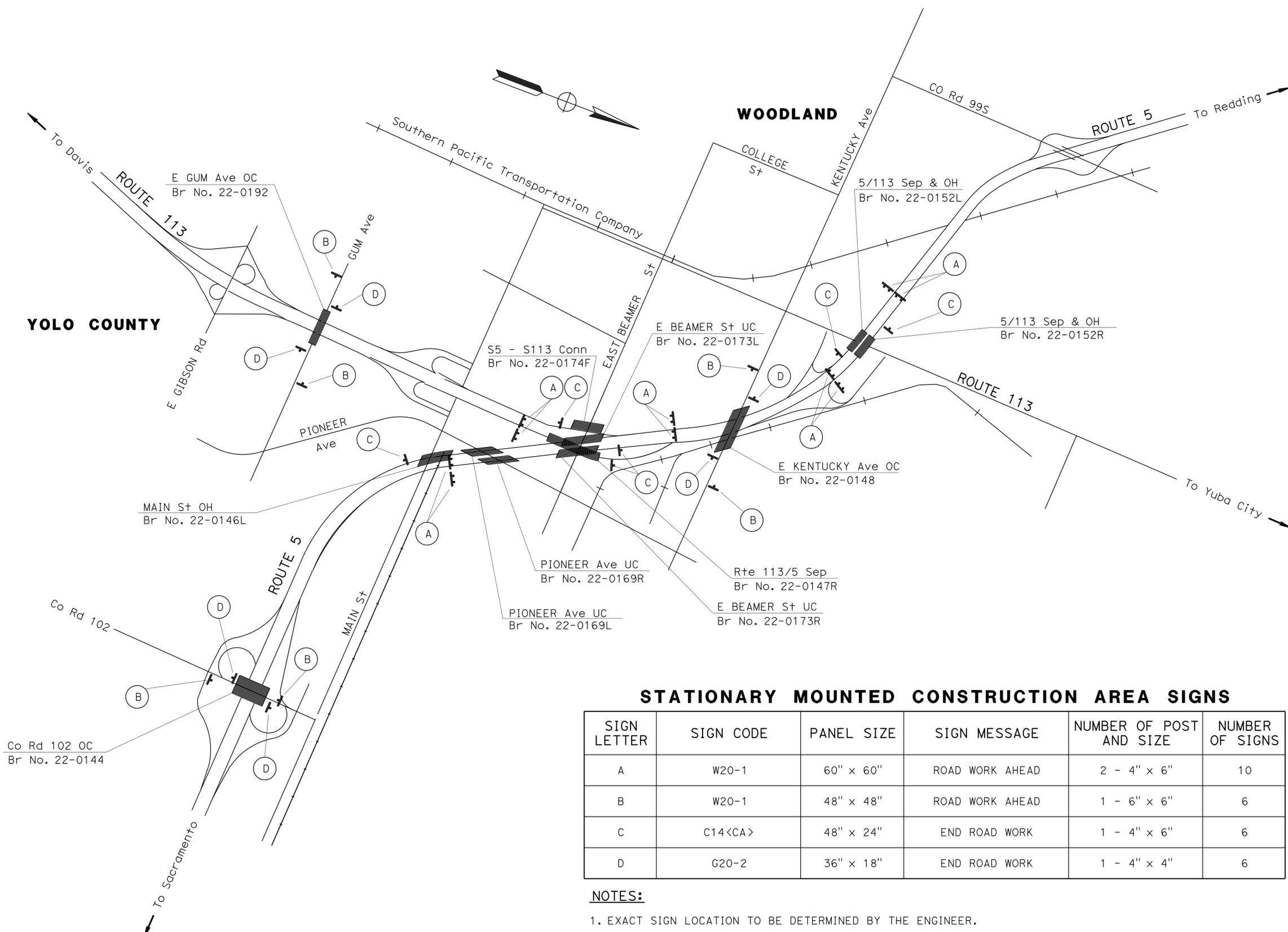
LAST REVISION DATE PLOTTED => 23-JUN-2015  
 07-19-10 TIME PLOTTED => 09:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	4	20

*Kris M. Albers* 2-9-15  
 REGISTERED CIVIL ENGINEER DATE  
 2-9-15  
 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  
**KRIS M. ALBERS**  
 No. 49986  
 Exp. 6-30-15  
 CIVIL  
 STATE OF CALIFORNIA



**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
A	W20-1	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	10
B	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	6
C	C14<CA>	48" x 24"	END ROAD WORK	1 - 4" x 6"	6
D	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	6

- NOTES:**
1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
  2. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS A CALIFORNIA SIGN CODE.
  3. <CA> = CALIFORNIA SIGN CODE.

**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: NARAYAN SELWAL  
 CALCULATED/DESIGNED BY: CHUCK COOK  
 CHECKED BY: KRIS ALBERS  
 REVISED BY: CHUCK COOK  
 DATE REVISED:

LAST REVISION | DATE PLOTTED => 23-JUN-2015  
 06-16-15 | TIME PLOTTED => 09:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	5	20

*Kris M. Albers* 2-9-15  
REGISTERED CIVIL ENGINEER DATE

2-9-15  
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
**KRIS M. ALBERS**  
No. 49986  
Exp. 6-30-15  
CIVIL  
STATE OF CALIFORNIA

**REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)**

LOCATION	CENTERLINE
	LF
13	380
TOTAL	380

**4" PERMANENT TAPE TRAFFIC STRIPE (BROKEN 36 - 12)**

LOCATION	DETAIL NUMBER
	12
	LF
2	470
3	250
4	234
5	122
6	122
7	112
9	236
10	235
15	418
TOTAL	2199

**6" PERMANENT TAPE TRAFFIC STRIPE**

LOCATION	DETAIL NUMBER
	39
	LF
1	230
8	1126
13	380
TOTAL	1736

**REMOVE THERMOPLASTIC TRAFFIC STRIPE**

LOCATION	RIGHT EDGELINE	BIKE LANE
	LF	LF
1	43	345
13		570
SUBTOTAL	43	915
TOTAL	958	

**PAVEMENT MARKER**

LOCATION	DETAIL NUMBER	RETROREFLECTIVE			NON-REFLECTIVE	
		TYPE D EA	TYPE G EA	TYPE H EA	TYPE A EA	TYPE AY EA
1	13,30	38	10		38	192
2	12,25		10	10		
3	12,25		7	7		
4	12,25		6	6		
5	12,25		4	4		
6	12,25		4	4		
7	12,25A		4	4		
8	23	50				240
9	12,25		6	6		
10	12,25		6	6		
13	23	18				80
15	12,25		10	10		
SUBTOTAL		106	67	57	38	512
TOTAL		230			550	

**4" PERMANENT TAPE TRAFFIC STRIPE**

LOCATION	DETAIL NUMBER	
	25	27B
		LF
1		43
2	470	470
3	250	250
4	234	234
5	122	122
6	122	122
7	112	112
9	236	236
10	235	235
15	418	418
SUBTOTAL	2199	2242
TOTAL	4441	

**PAVEMENT DELINEATION QUANTITIES**

**PDQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
FUNCTIONAL SUPERVISOR: NARAYAN SELWAL  
CALCULATED/DESIGNED BY: CHUCK COOK  
CHECKED BY: KRIS ALBERS  
REVISOR: CHUCK COOK  
DATE: 7/2/2010



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	6	20

*James M. Ferreira* 2-9-15  
 REGISTERED CIVIL ENGINEER DATE

2-9-15  
 PLANS APPROVAL DATE

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

### ROADWAY QUANTITIES

COUNTY	ROUTE	POST MILE	STRUCTURE NAME	BRIDGE No.	COLD PLANE ASPHALT CONCRETE PAVEMENT	TACK COAT	MINOR HOT MIX ASPHALT
					(SQYD)	(TON)	(TON)
YOL	5	5.53	COUNTY ROAD 102 OVERCROSSING	22-01444	1,320	0.9	220
YOL	5, 113	R7.11	S5 TO S113 CONNECTOR	22-0174F	780	0.6	130
TOTAL					2,100	1.5	350

### SUMMARY OF QUANTITIES

**Q-1**

LAST REVISION | DATE PLOTTED => 23-JUN-2015  
 07-19-10 | TIME PLOTTED => 09:25

	<b>M</b>	
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	
	<b>N</b>	
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	
	<b>O</b>	
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	
	<b>P</b>	
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	

	<b>P continued</b>	
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	
	<b>Q</b>	
Qty	QUANTITY	
	<b>R</b>	
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	

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

	<b>T continued</b>	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	<b>U</b>
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	<b>V</b>
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	<b>W</b>
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	<b>X</b>
X Sec	CROSS SECTION	
Xing	CROSSING	<b>Y</b>
Yr	YEAR	
Yrs	YEARS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	7	20

*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

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TO ACCOMPANY PLANS DATED 2-9-15

**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 <sup>3</sup> , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	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

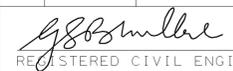
**ABBREVIATIONS  
(SHEET 2 OF 2)**

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	8	20

  
 REGISTERED CIVIL ENGINEER  
 July 19, 2013  
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 2-9-15

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

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

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

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

TABLE 2

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

\* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph  
 \*\* - Longitudinal buffer space or flagger station spacing  
 \*\*\* - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

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

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

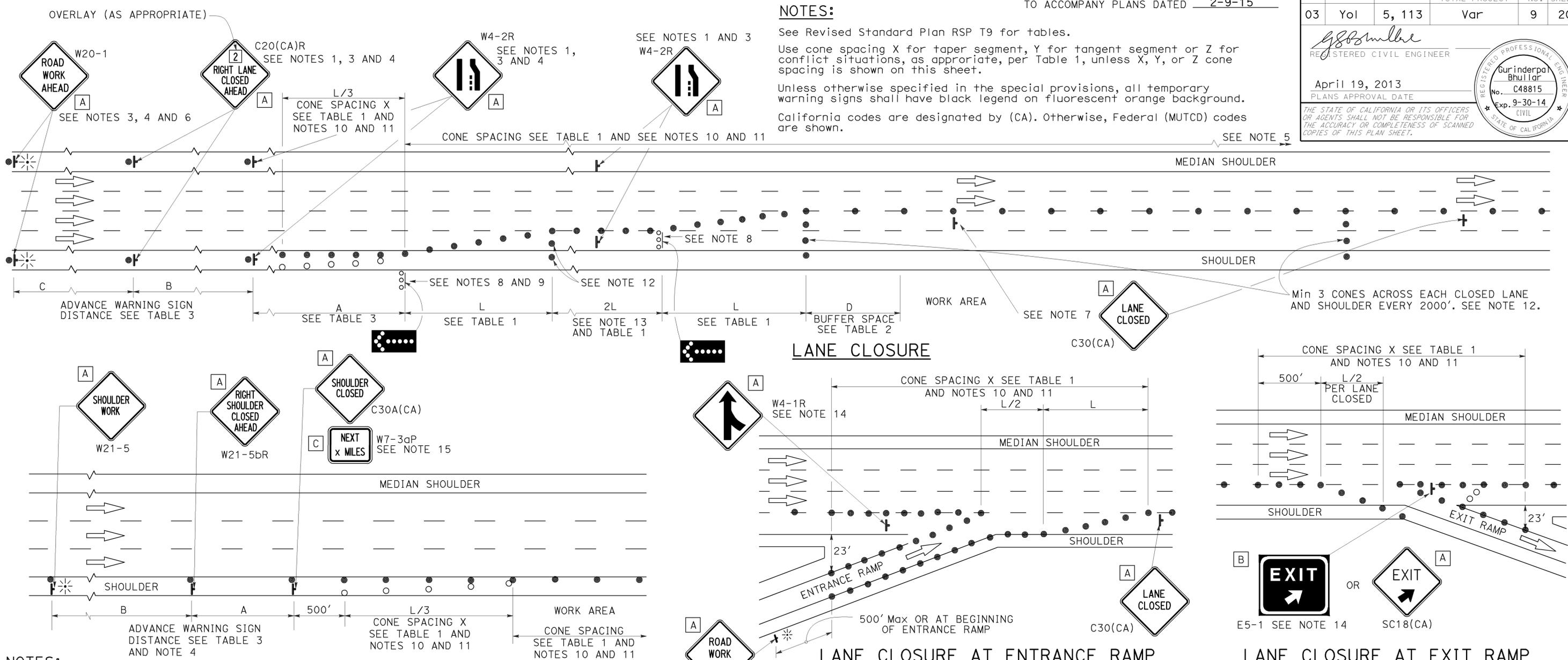
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	9	20

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



- 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) sign for the first advance warning sign.
  7. Place a C30(CA) sign every 2000' throughout length of lane closure.
  8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
  9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
  10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
  11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

- LANE CLOSURE AT ENTRANCE RAMP**
- LANE CLOSURE AT EXIT 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"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

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

**REVISED STANDARD PLAN RSP T10**

2010 REVISED STANDARD PLAN RSP T10

**NOTES:**

See Revised Standard Plan RSP T9 for tables.

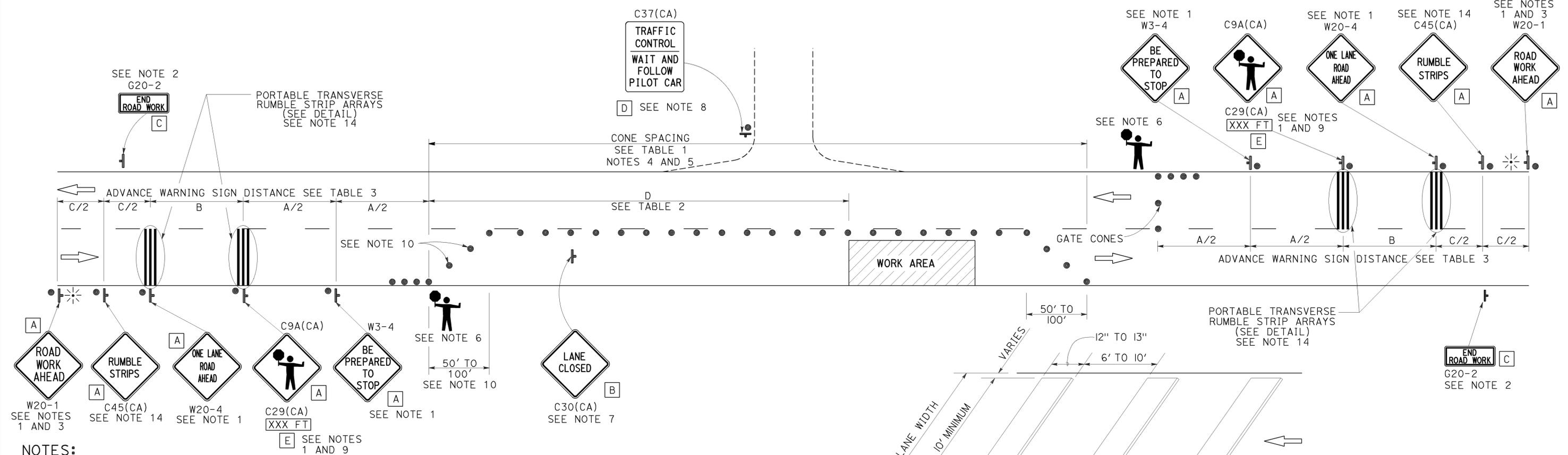
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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.

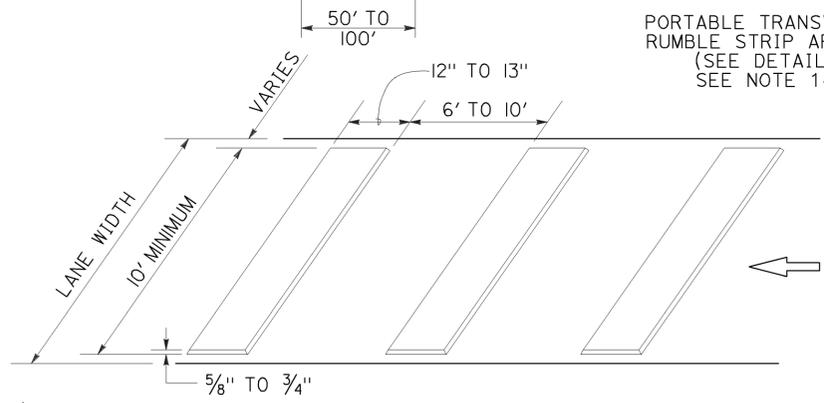
**TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL**

TO ACCOMPANY PLANS DATED 2-9-15



- NOTES:**
- 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.
  - A G20-2 "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.
  - If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT \_\_\_\_\_ MILES", use a W20-4 sign for the first advance warning sign.
  - 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.
  - 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.

- 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.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
  - Work duration occupies a location for four hours or less
  - Posted speed limit is below 45 MPH
  - Work is of emergency nature
  - Work zone is in snow or icy weather conditions



**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 20" x 7"

**LEGEND**

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- 🚧 FLAGGER

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM  
FOR LANE CLOSURE ON  
TWO LANE CONVENTIONAL  
HIGHWAYS**

NO SCALE

RSP T13 DATED OCTOBER 17, 2014 SUPERSEDES RSP T13 DATED JULY 18, 2014  
AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED  
MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP T13

# TYPICAL RAMP CLOSURES

## SIGN PANEL SIZE (Min)

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

## LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⚡ PORTABLE FLASHING BEACON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	11	20

*Gurinderpal Bhullar*  
 REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE

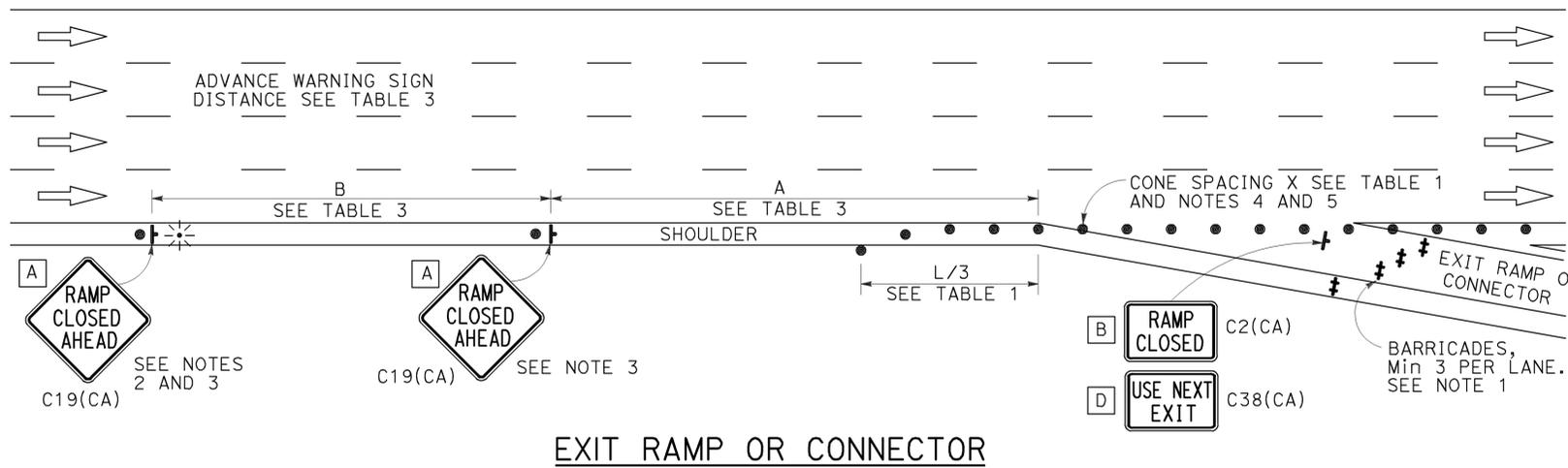
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

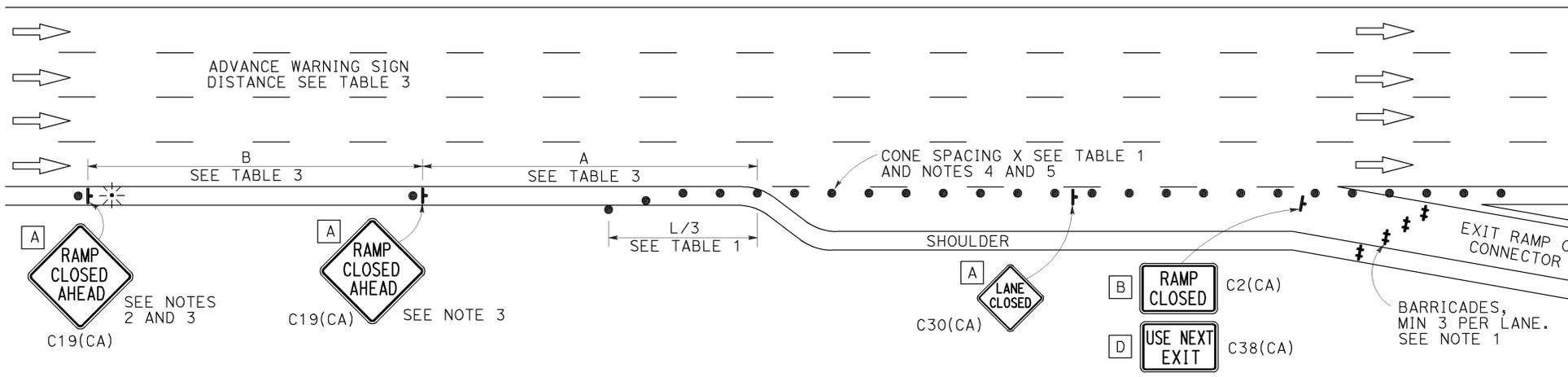
TO ACCOMPANY PLANS DATED 2-9-15

## NOTES:

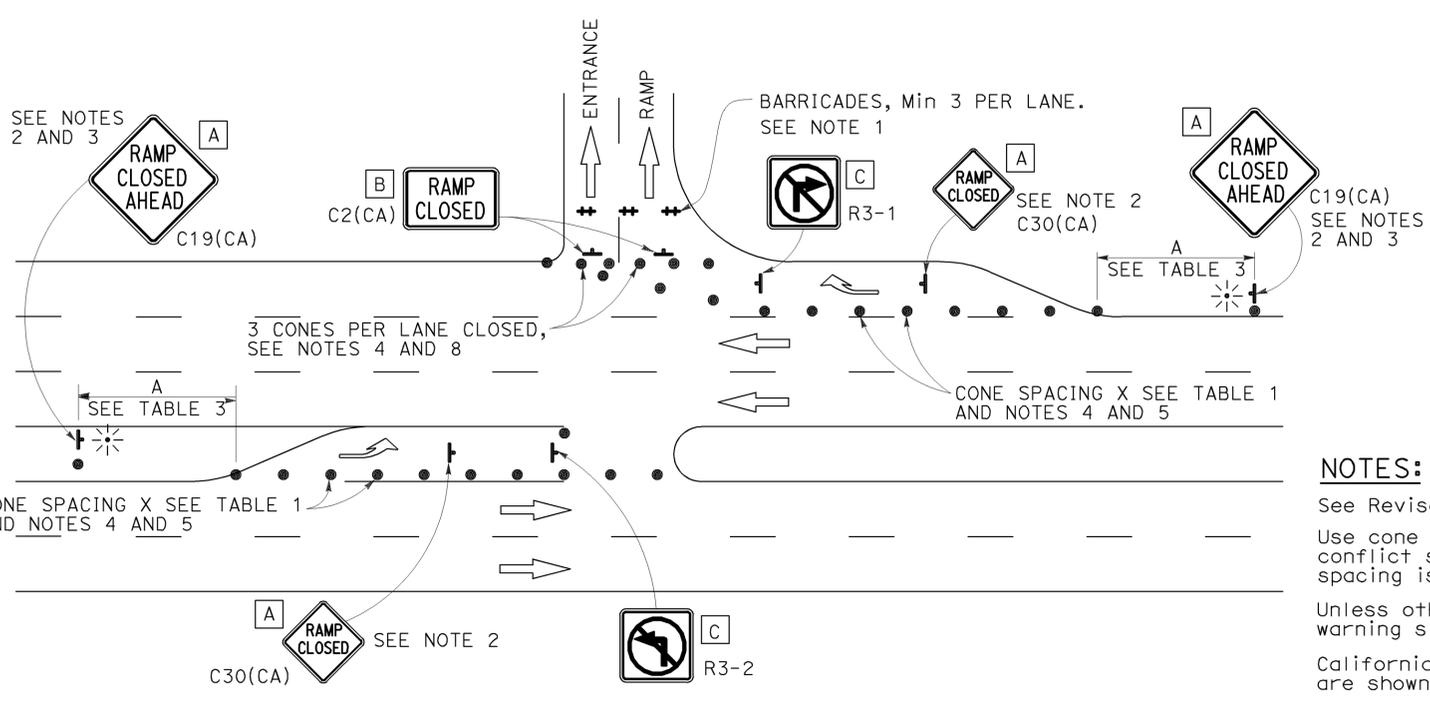
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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.
- 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. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
- All cones used for ramp 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 ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" signs shall be covered during ramp closures.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



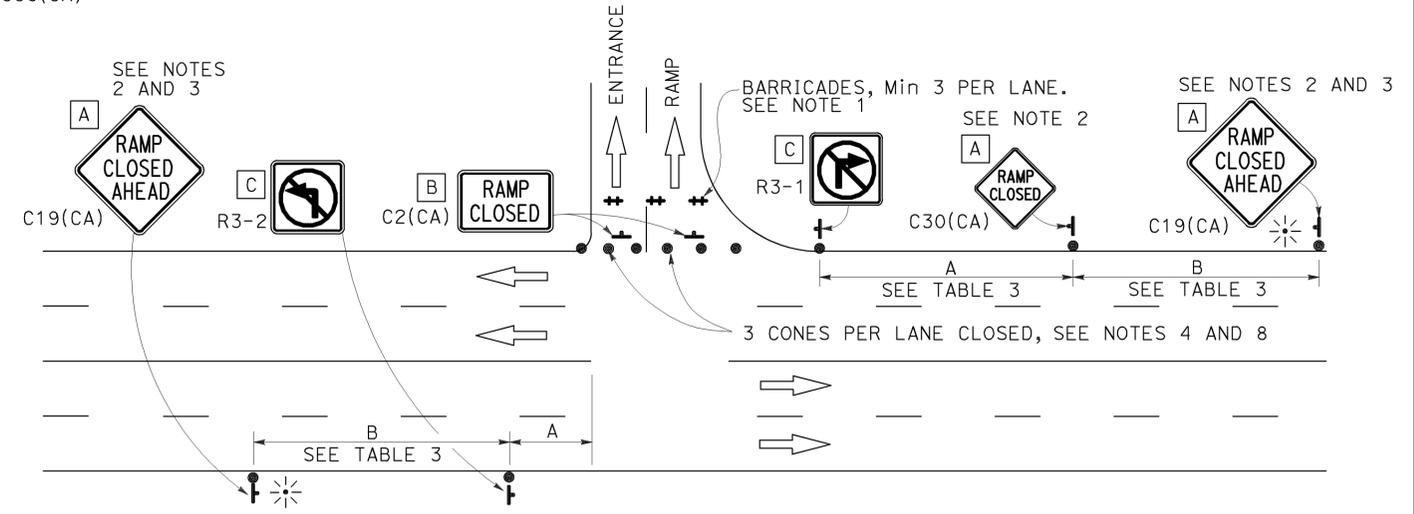
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

## NOTES:

- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as 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.

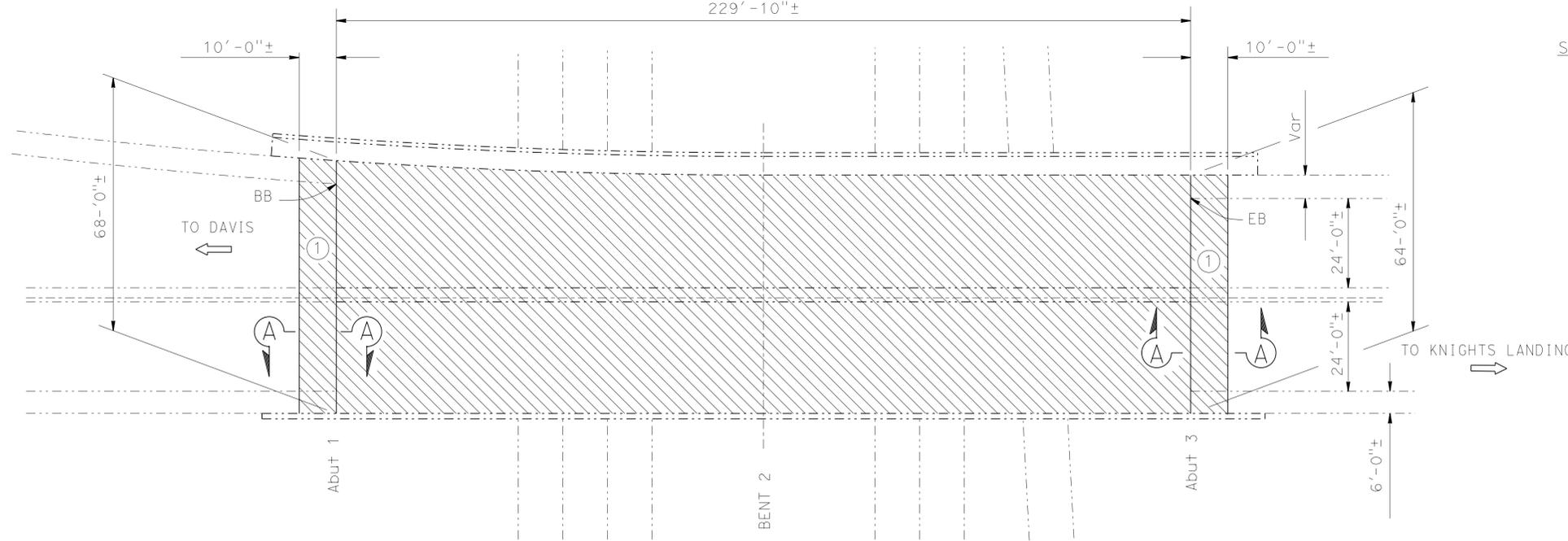
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR RAMP CLOSURE**  
 NO SCALE

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

**REVISED STANDARD PLAN RSP T14**

2010 REVISED STANDARD PLAN RSP T14

229'-10"±



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	JOINT SEAL DETAILS NO. 1
9	JOINT SEAL DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	12	20

1-16-15  
 REGISTERED CIVIL ENGINEER DATE  
 PETER B. KANG  
 No. C 70336  
 Exp. 9-30-16  
 CIVIL  
 STATE OF CALIFORNIA

2-9-15  
 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.

QUANTITIES

DESCRIPTION	QUANTITY	UNIT
COUNTY RD 102 OC		
RAPID SETTING CONCRETE (PATCH)	41	CF
REMOVE UNSOUND CONCRETE	41	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	16,260	SOFT
FURNISH POLYESTER CONCRETE OVERLAY	1,626	CF
PLACE POLYESTER CONCRETE OVERLAY	16,260	SOFT
GRIND EXISTING BRIDGE DECK	147	SOYD
CLEAN EXPANSION JOINT	134	LF
JOINT SEAL (MR 1")	134	LF

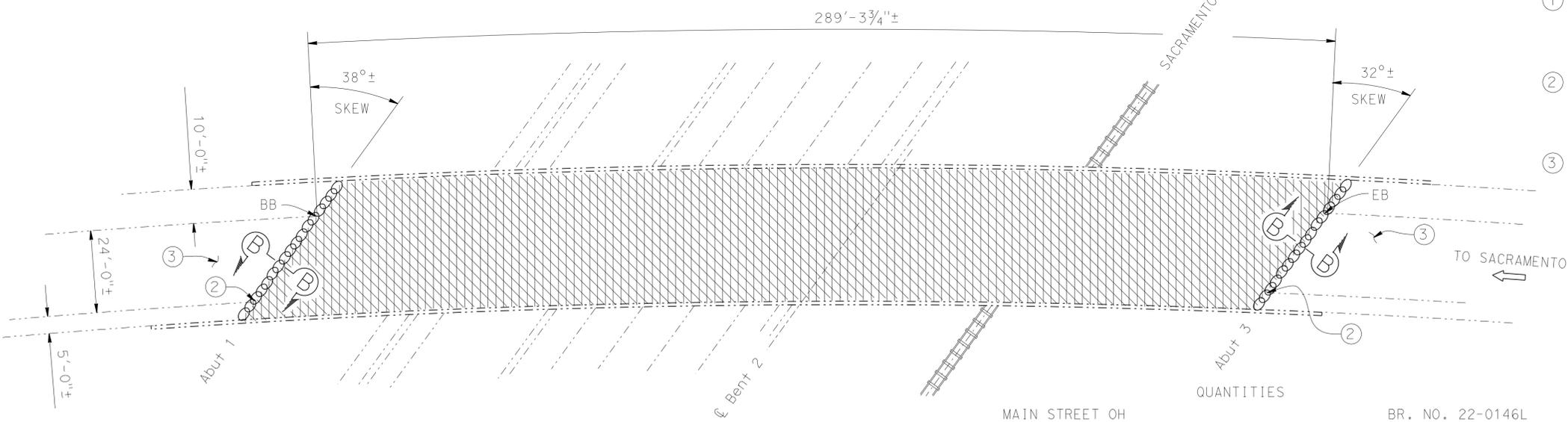
COUNTY ROAD 102 OVERCROSSING

Br No. 22-0144, Yol, ROUTE 5, PM 5.53  
1"=20'



- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of remove existing 1 1/2"± AC overlay.
  - Indicates limits of remove unsound concrete, place rapid setting concrete patches, prepare concrete deck surface, and place 1 1/2" minimum depth polyester concrete overlay. For details, see the "JOINT SEAL DETAILS NO. 1" sheet.
  - Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS NO. 1" sheet.
  - Indicates limits of remove existing asphaltic plug joint seal and place new joint seal. For details, see "JOINT SEAL DETAILS NO. 1" sheet.
  - \* Indicates 1"± at Br. No. 22-0144, County Road 102 OC
  - ① Indicates limits of grind existing concrete approach to conform to existing pavement for detail, see "SECTION A-A" on "JOINT SEAL DETAILS NO. 2" sheet.
  - ② Remove 1" depth AC overlay on approach slab and place and place 1" depth polyester concrete expansion dam. For details, see "SECTION B-B" on "JOINT SEAL DETAILS NO. 2" sheet.
  - ③ Conform roadway to new deck elevation, see "ROAD PLANS".

289'-3 3/4"±



QUANTITIES

DESCRIPTION	QUANTITY	UNIT
MAIN STREET OH		
RAPID SETTING CONCRETE (PATCH)	28	CF
REMOVE ASPHALT CONCRETE SURFACING	11,283	SOFT
REMOVE UNSOUND CONCRETE	28	CF
POLYESTER CONCRETE EXPANSION DAM	8	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	11,283	SOFT
FURNISH POLYESTER CONCRETE OVERLAY	1,693	CF
PLACE POLYESTER CONCRETE OVERLAY	11,283	SOFT
CLEAN EXPANSION JOINT	98	LF
BONDED JOINT SEAL (MR 1")	47	LF
BONDED JOINT SEAL (MR 1 1/2")	51	LF

MAIN STREET OVERHEAD

Br No. 22-0146L, Yol, ROUTE 5, PM R6.51  
1"=20'

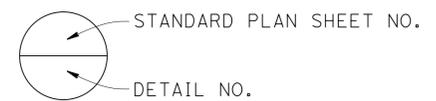


NOTES: (APPLY TO ALL SHEETS)

- Indicates existing.
- THE CONTRACTOR SHALL 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)
B0-5	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



 DESIGN ENGINEER 1-16-15	DESIGN	BY PETER KANG	CHECKED A. NOJOURI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY DAVID KISH	CHECKED A. NOJOURI	LAYOUT	BY DAVID KISH
	QUANTITIES	BY PETER KANG	CHECKED A. NOJOURI	SPECIFICATIONS	BY TANYA KERSHELL

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES

**ROUTES 5 & 113**  
**GENERAL PLAN NO. 1**

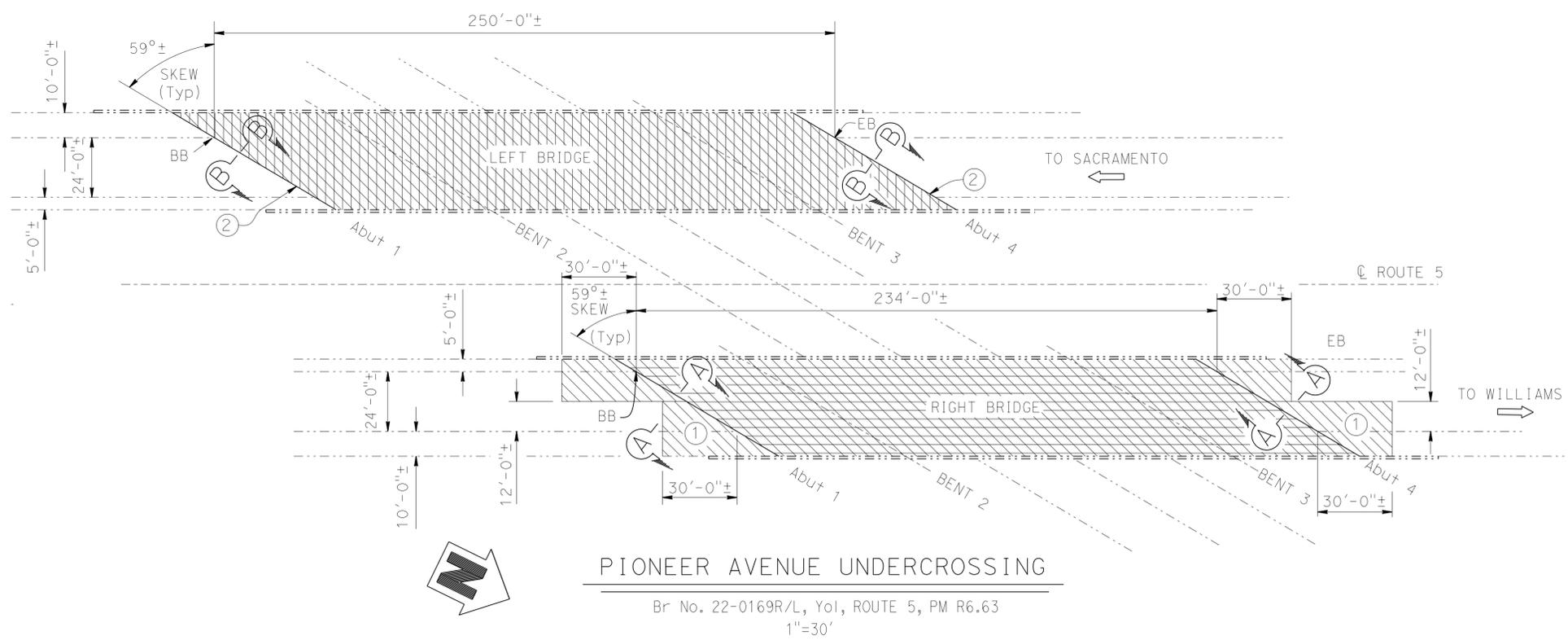
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	13	20

*Peter B. Kang* 1-16-15  
 REGISTERED CIVIL ENGINEER DATE

2-9-15  
 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  
 PETER B. KANG  
 No. C 70336  
 Exp. 9-30-16  
 CIVIL  
 STATE OF CALIFORNIA



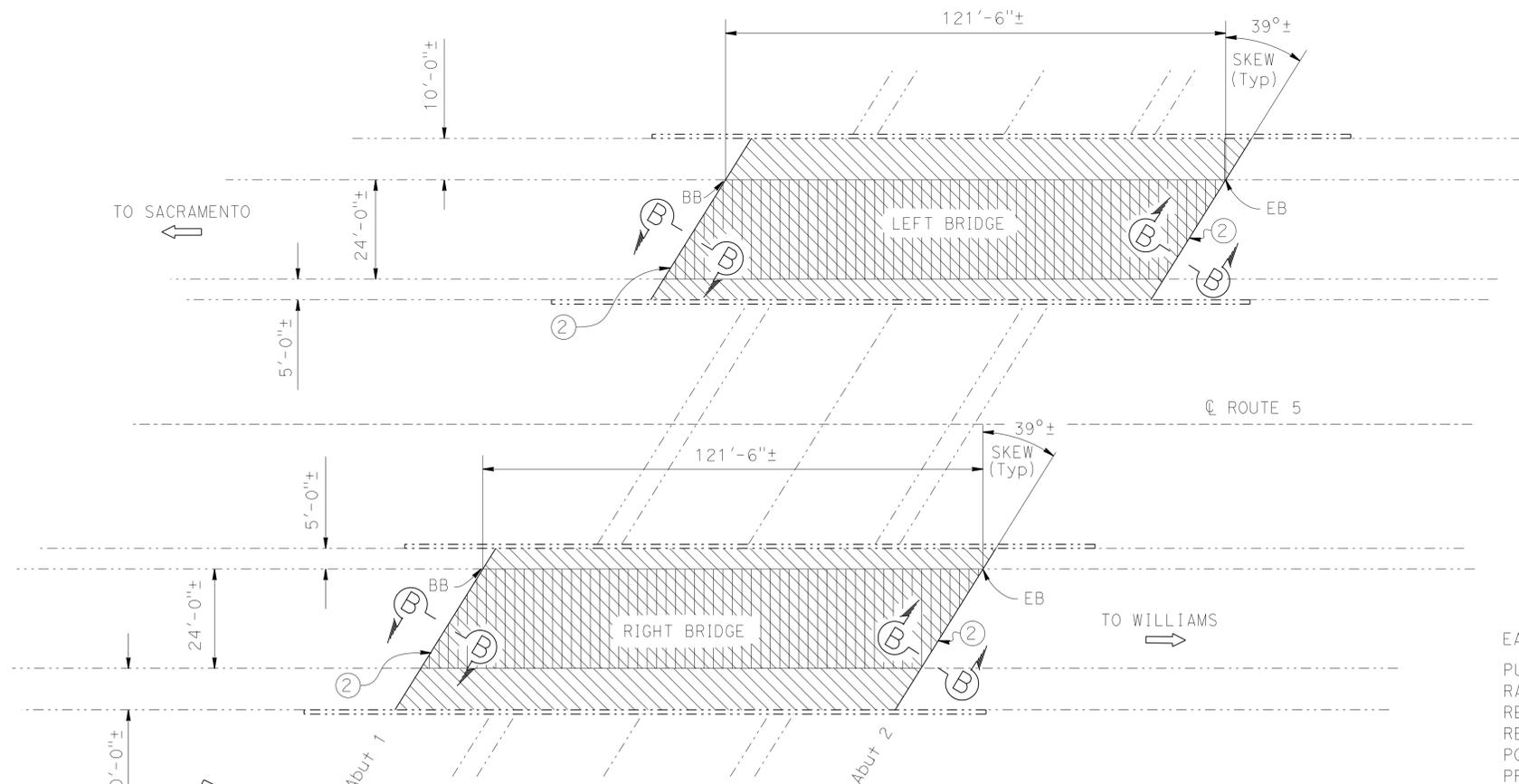
**PIONEER AVENUE UNDERCROSSING**  
 Br No. 22-0169R/L, Yol, ROUTE 5, PM R6.63  
 1"=30'

**QUANTITIES**

PIONEER AVE UC	BR. NO. 22-0169L/R
PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	59 CF
REMOVE ASPHALT CONCRETE SURFACING	9,750 SQFT
REMOVE UNSOUND CONCRETE	59 CF
POLYESTER CONCRETE EXPANSION DAM	13 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	23,747 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	2,375 CF
PLACE POLYESTER CONCRETE OVERLAY	23,747 SQFT
REMOVE CHIP SEAL	9,126 SQFT
GRIND EXISTING BRIDGE DECK	541 SQYD
CLEAN EXPANSION JOINT	308 LF
BONDED JOINT SEAL (MR 1")	308 LF

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates limits of remove existing 1"± AC overlay.
- Indicates limits of remove unsound concrete, place rapid setting concrete patches, prepare concrete deck surface, and place 1" minimum depth polyester concrete overlay. For details, see the "JOINT SEAL DETAILS NO.1" sheet.
- Indicates limits of remove existing 1"± chip seal overlay
- Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS NO. 1" sheet.
- ① Indicates limits of grind existing concrete approach to conform to existing pavement for detail, see "SECTION A-A" on "JOINT SEAL DETAILS NO.2" sheet.
- ② Remove 1" depth AC overlay on approach slab and place and place 1" depth polyester concrete expansion dam. For details, see "SECTION B-B" on "JOINT SEAL DETAILS" sheet.



**EAST BEAMER STREET UNDERCROSSING**  
 Br No. 22-0173R/L, Yol, ROUTE 5, PM R7.10  
 1"=20'

**QUANTITIES**

EAST BEAMER ST. UC	BR. NO. 22-0173L/R
PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	24 CF
REMOVE ASPHALT CONCRETE SURFACING	5,832 SQFT
REMOVE UNSOUND CONCRETE	24 CF
POLYESTER CONCRETE EXPANSION DAM	15 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	9,477 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	950 CF
PLACE POLYESTER CONCRETE OVERLAY	9,477 SQFT
CLEAN EXPANSION JOINT	184 LF
JOINT SEAL (MR 1/2")	184 LF

*Matthew Lee* 1-16-15  
 DESIGN ENGINEER

DESIGN	BY PETER KANG	CHECKED A. NOJOURI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED A. NOJOURI	LAYOUT	BY DAVID KISH
QUANTITIES	BY PETER KANG	CHECKED A. NOJOURI	SPECIFICATIONS	BY TANYA KERSHELL

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE**  
**STRUCTURE MAINTENANCE DESIGN**

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTES 5 & 113**  
**GENERAL PLAN NO. 2**

REVISION DATES	SHEET	OF
10-23-14 11-18-14	2	8

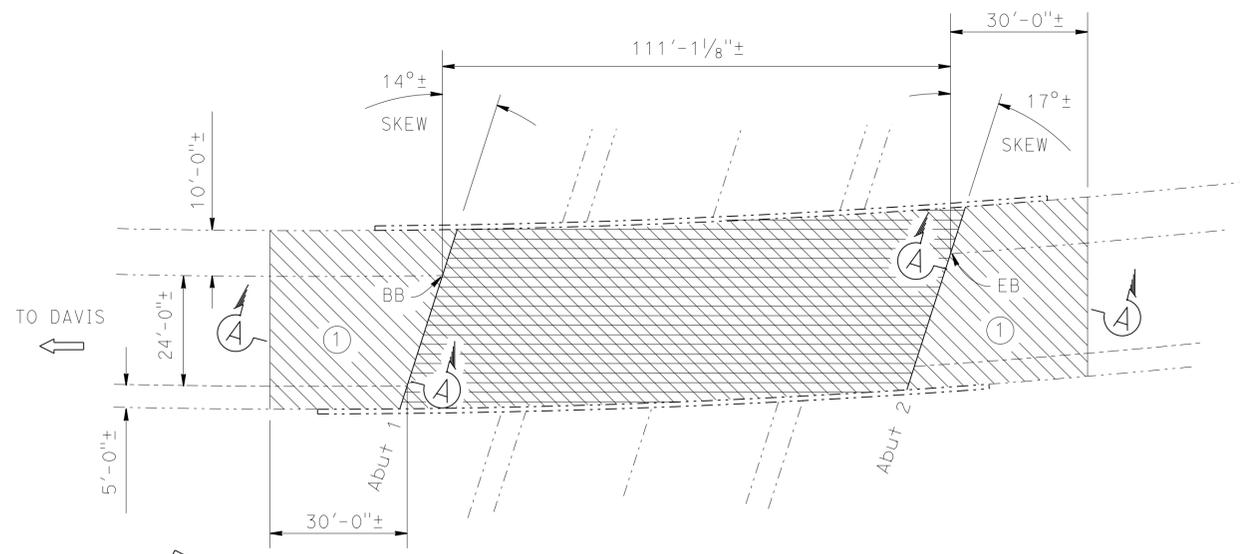
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	14	20

PETER B. KANG 1-16-15  
 REGISTERED CIVIL ENGINEER DATE  
 2-9-15  
 PLANS APPROVAL DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 PETER B. KANG  
 No. C 70336  
 Exp. 9-30-16  
 CIVIL  
 STATE OF CALIFORNIA  
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NOTES: (APPLY TO THIS SHEET ONLY)

-  Indicates limits of remove existing 1"± polymer chip seal overlay.
-  Indicates limits of remove unsound concrete, place rapid setting concrete patches, prepare concrete deck surface, and place 1" minimum depth polyester concrete overlay. For details, see the "JOINT SEAL DETAILS NO. 1" sheet.
-  Indicates limits of remove existing 3/4"± chip seal overlay
-  Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS NO. 1" sheet.
- ① Indicates limits of grind existing concrete approach to conform to existing pavement for detail, see "SECTION A-A" on "JOINT SEAL DETAILS NO. 2" sheet.
- ② Conform roadway to new deck elevation, see "ROAD PLANS".



**S5 - S113 CONNECTOR UNDERCROSSING**

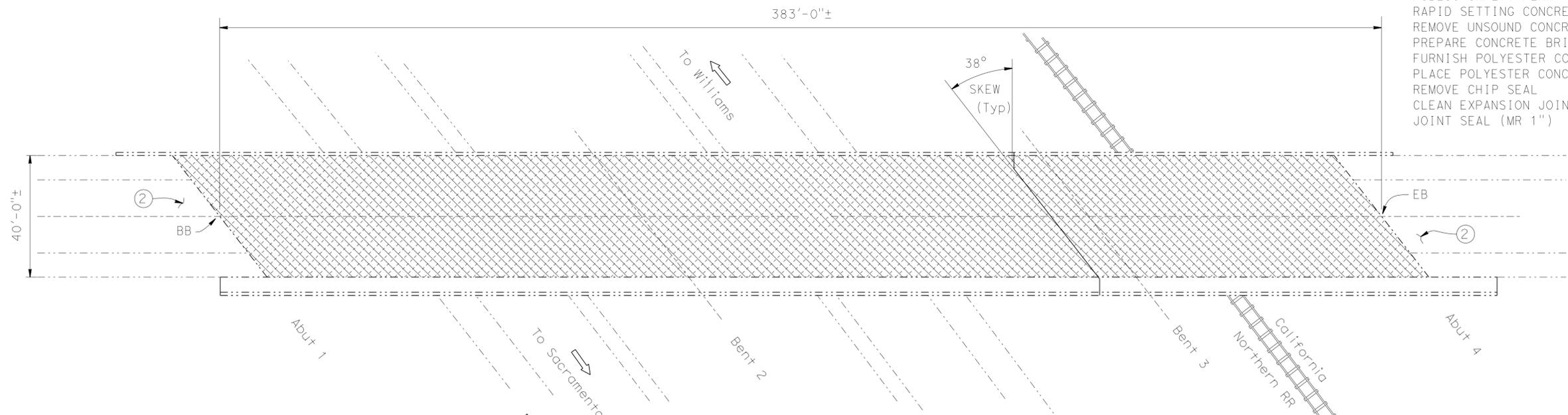
Br No. 22-0174F, Yol, ROUTE 5, PM R7.11  
1"=20'

QUANTITIES

S5-S113 CONNECTOR UC	BR. NO. 22-0174F
PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	18 CF
REMOVE CHIP SEAL	4,333 SQFT
REMOVE UNSOUND CONCRETE	18 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,138 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	714 CF
PLACE POLYESTER CONCRETE OVERLAY	7,138 SQFT
GRIND EXISTING BRIDGE DECK	312 SQYD
CLEAN EXPANSION JOINT	82 LF
JOINT SEAL (MR 1/2")	82 LF

QUANTITIES

EAST KENTUCKY AVE OC	BR. NO. 22-0148
PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	38 CF
REMOVE UNSOUND CONCRETE	38 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	15,320 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	1,532 CF
PLACE POLYESTER CONCRETE OVERLAY	15,320 SQFT
REMOVE CHIP SEAL	15,320 SQFT
CLEAN EXPANSION JOINT	52 LF
JOINT SEAL (MR 1")	52 LF



**EAST KENTUCKY AVENUE OVERCROSSING**

Br No. 22-0148, Yol, ROUTE 5, PM R7.70  
1"=20'

  
 DESIGN ENGINEER 1-16-15

DESIGN	BY PETER KANG	CHECKED A. NOJOURI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED A. NOJOURI	LAYOUT	BY DAVID KISH
QUANTITIES	BY PETER KANG	CHECKED A. NOJOURI	SPECIFICATIONS	BY TANYA KERSHELL

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTES 5 & 113  
GENERAL PLAN NO. 3**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3488  
PROJECT NUMBER & PHASE: 0314000029

CONTRACT NO.: 03-0G0501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
10-23-14 11-18-14	3	8

USERNAME => s1119538 DATE PLOTTED => 23-JUN-2015 TIME PLOTTED => 09:24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	15	20

*Peter B. Kang* 1-16-15  
REGISTERED CIVIL ENGINEER DATE

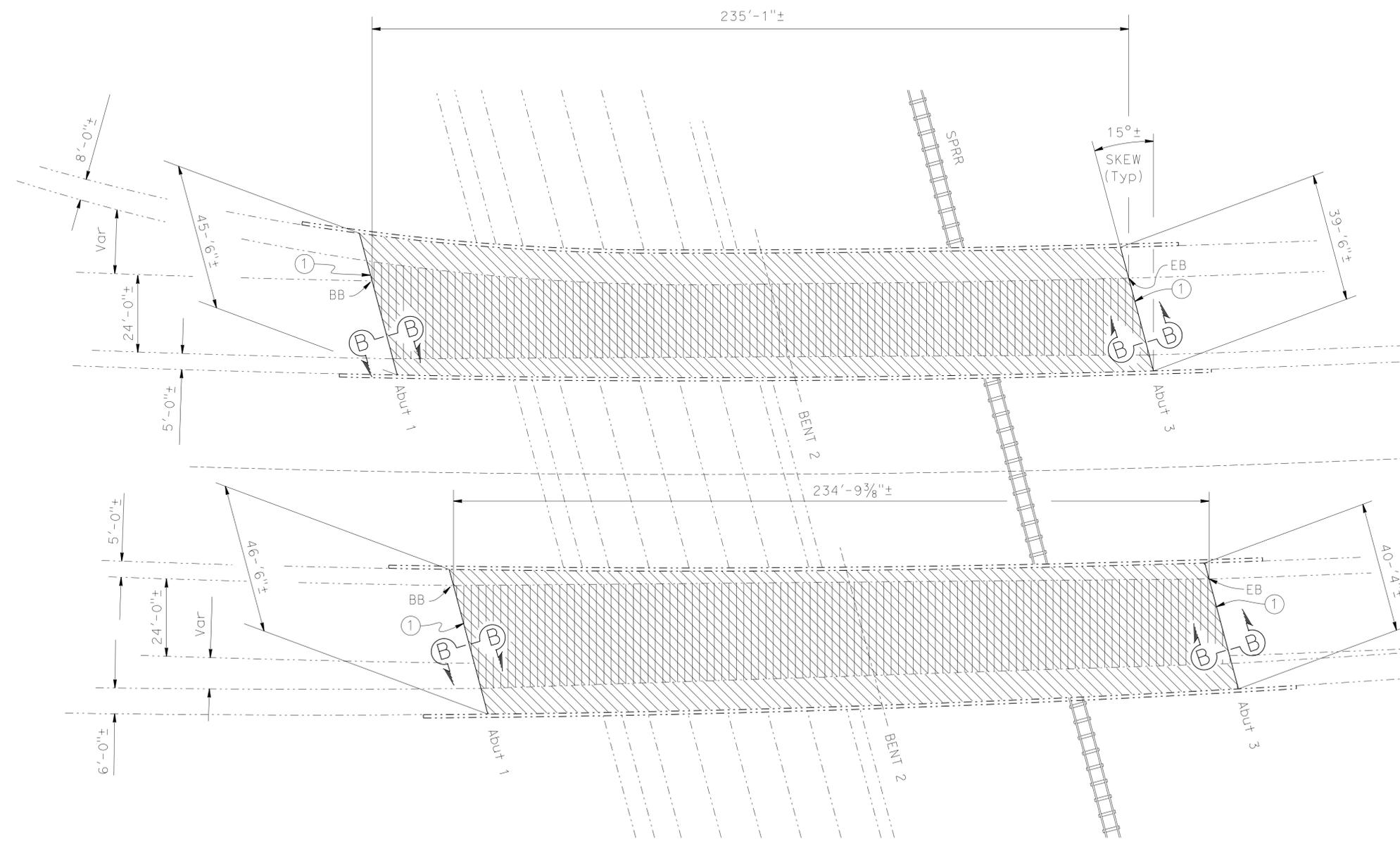
2-9-15  
PLANS APPROVAL DATE

PETER B. KANG  
No. C 70336  
Exp. 9-30-16  
CIVIL  
STATE OF CALIFORNIA

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

NOTES: (APPLY TO THIS SHEET ONLY)

-  Indicates limits of remove existing 1 1/2"± AC overlay.
-  Indicates limits of remove unsound concrete, place rapid setting concrete patches, prepare concrete deck surface, and place 1 1/2" minimum depth polyester concrete overlay. For details, see the "JOINT SEAL DETAILS NO. 1" sheet.
-  Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS NO. 1" sheet.
- ① Remove 1" depth AC overlay on approach slab and place and place 1" depth polyester concrete expansion dam. For details, see "SECTION B-B" on "JOINT SEAL DETAILS NO. 2" sheet.



QUANTITIES

RTE 5/113 SEPARATION AND OH	BR. NO. 22-0152L/R
PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	51 CF
REMOVE ASPHALT CONCRETE SURFACING	14,546 SQFT
REMOVE UNSOUND CONCRETE	51 CF
POLYESTER CONCRETE EXPANSION DAM	15 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	20,185 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	3,028 CF
PLACE POLYESTER CONCRETE OVERLAY	20,185 SQFT
CLEAN EXPANSION JOINT	180 LF
JOINT SEAL (MR 1")	180 LF



ROUTE 5/113 SEPARATION & OVERHEAD

Br No. 22-0152R/L, Yol, ROUTE 5, PM R8.26  
1"=20'

 DESIGN ENGINEER 1-16-15	DESIGN	BY PETER KANG	CHECKED A. NOJOURI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	<b>ROUTES 5 &amp; 113</b> <b>GENERAL PLAN NO. 4</b>			
	DETAILS	BY DAVID KISH	CHECKED A. NOJOURI	LAYOUT	BY DAVID KISH		CHECKED A. NOJOURI		VARIOUS		
	QUANTITIES	BY PETER KANG	CHECKED A. NOJOURI	SPECIFICATIONS	BY TANYA KERSHELL		PLANS AND SPECS COMPARED TANYA KERSHELL		VARIES		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3488 PROJECT NUMBER & PHASE: 0314000029	CONTRACT NO.: 03-0G0501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 4 OF 9

USERNAME => S119538 DATE PLOTTED => 23-JUN-2015 TIME PLOTTED => 09:24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	16	20

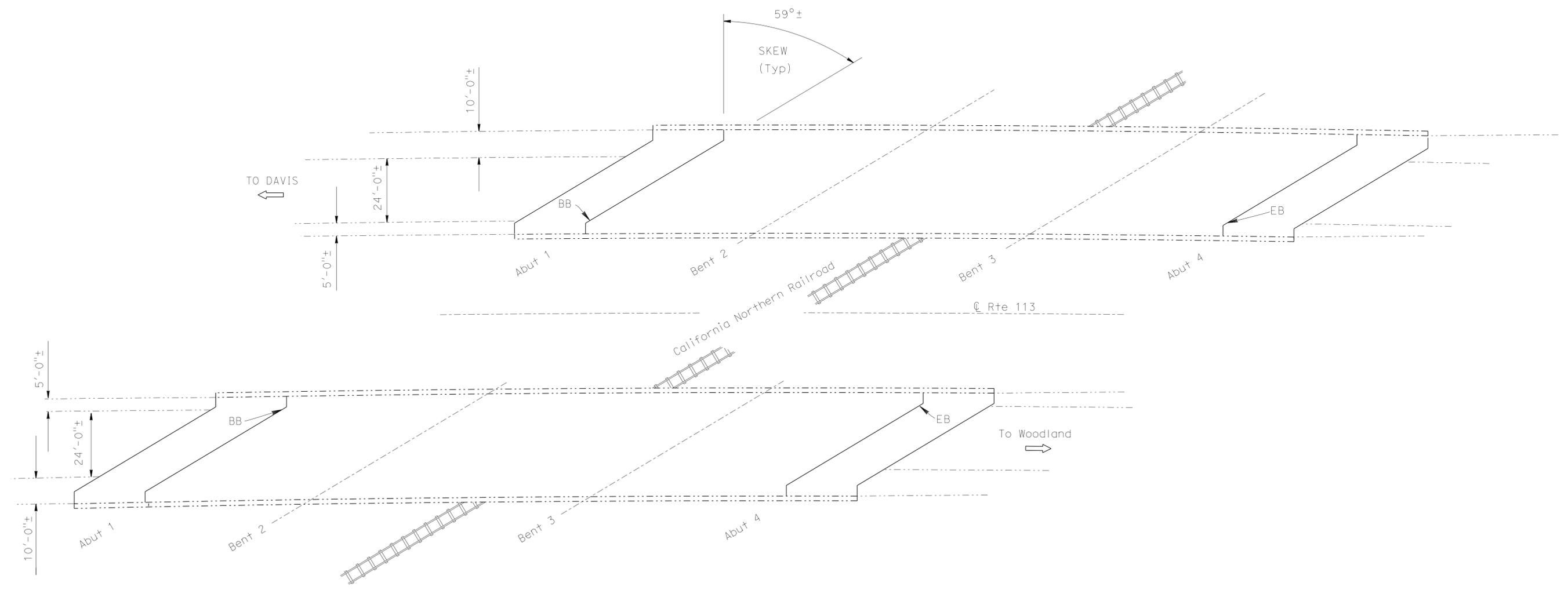
NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS NO. 1" sheet.

*Peter B. Kang* 1-16-15  
 REGISTERED CIVIL ENGINEER DATE

2-9-15  
 PLANS APPROVAL DATE

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QUANTITIES

MULLEN OH	BR. NO. 22-0062L/R
CLEAN EXPANSION JOINT	616 LF
JOINT SEAL (MR 1/2")	308 LF
JOINT SEAL (MR 1")	308 LF

MULLEN OVERHEAD

Br No. 22-0062R/L, Yol, ROUTE 113, PM R6.81  
 1"=20'



*Matthew Lee* 1-16-15  
 DESIGN ENGINEER

DESIGN	BY PETER KANG	CHECKED A. NOJOURI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED A. NOJOURI	LAYOUT	BY DAVID KISH
QUANTITIES	BY PETER KANG	CHECKED A. NOJOURI	SPECIFICATIONS	BY TANYA KERSHELL

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 5 & 113  
 GENERAL PLAN NO. 5

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488  
 PROJECT NUMBER & PHASE: 0314000029

CONTRACT NO.: 03-0G0501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
10-23-14	5	9

DATE PLOTTED => 23-JUN-2015 TIME PLOTTED => 09:24 USERNAME => s119538

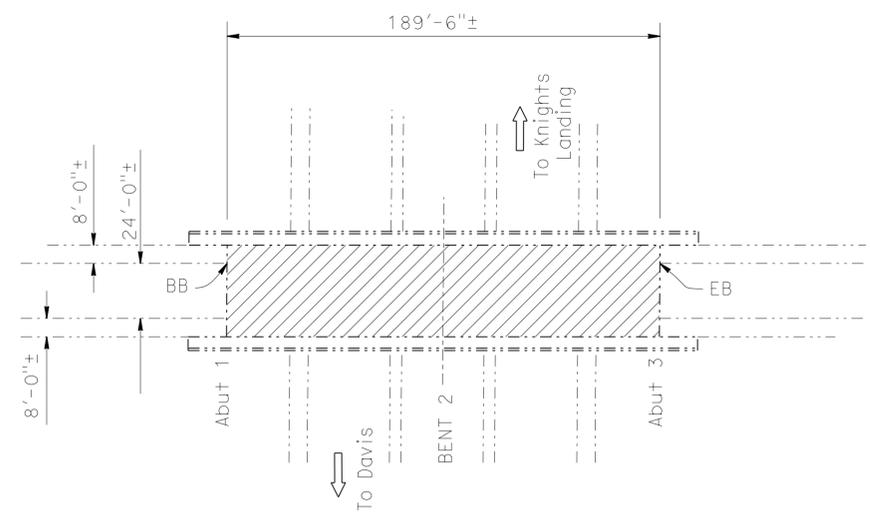
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	17	20

*Peter B. Kang* 1-16-15  
REGISTERED CIVIL ENGINEER DATE

2-9-15  
PLANS APPROVAL DATE

PETER B. KANG  
No. C 70336  
Exp. 9-30-16  
CIVIL  
STATE OF CALIFORNIA

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Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.



Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS NO. 1" sheet.

NOTES: (APPLY TO THIS SHEET ONLY)

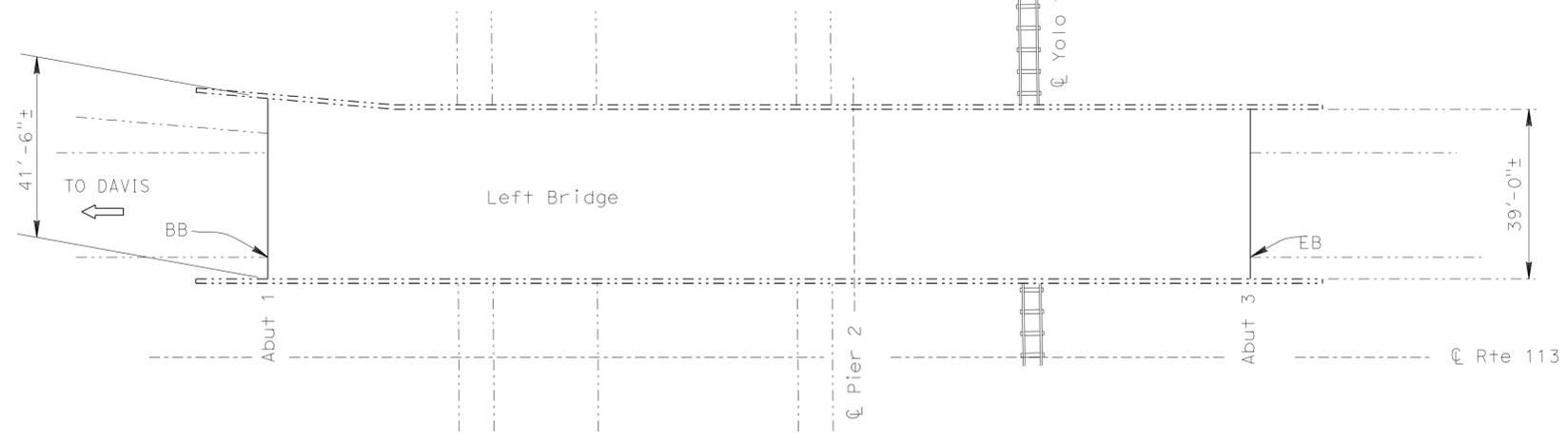


**EAST GUM AVENUE OVERCROSSING**

Br No. 22-0192, Yol, ROUTE 113, PM R9.61  
1"=40'

QUANTITIES

EAST GUM AVE OC	BR. NO. 22-0192
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	7,580 SQFT
TREAT BRIDGE DECK	7,580 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	84 GAL



**EAST WOODLAND OVERHEAD**

Br No. 22-0130L, Yol, ROUTE 113, PM R10.22  
1"=20'

QUANTITIES

EAST WOODLAND OH	BR. NO. 22-0130L
CLEAN EXPANSION JOINT	82 LF
JOINT SEAL (MR 1")	82 LF

*Matthew C. Lee* 1-16-15  
DESIGN ENGINEER

DESIGN	BY PETER KANG	CHECKED A. NOJOUMI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED A. NOJOUMI	LAYOUT	BY DAVID KISH
QUANTITIES	BY PETER KANG	CHECKED A. NOJOUMI	SPECIFICATIONS	BY TANYA KERSHELL
				CHECKED A. NOJOUMI
				PLANS AND SPECS COMPARED TANYA KERSHELL

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE**  
**STRUCTURE MAINTENANCE DESIGN**

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTES 5 & 113**  
**GENERAL PLAN NO. 6**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3488  
PROJECT NUMBER & PHASE: 0314000029

CONTRACT NO.: 03-0G0501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
10-23-14	6	9

USERNAME => s119538 DATE PLOTTED => 23-JUN-2015 TIME PLOTTED => 09:24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	18	20

*Peter B. Kang* 1-16-15  
 REGISTERED CIVIL ENGINEER DATE

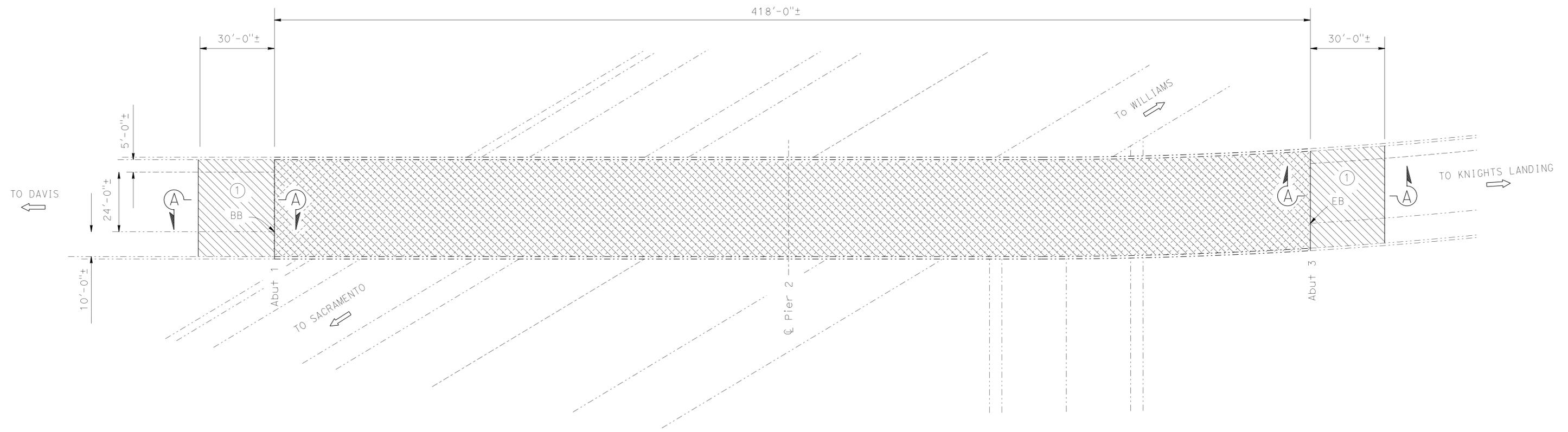
2-9-15  
 PLANS APPROVAL DATE

PETER B. KANG  
 No. C 70336  
 Exp. 9-30-16  
 CIVIL  
 STATE OF CALIFORNIA

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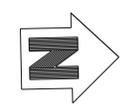
NOTES: (APPLY TO THIS SHEET ONLY)

-  Indicates limits of remove existing 1"± polymer chip seal overlay
-  Indicates limits of remove unsound concrete, place rapid setting concrete patches, prepare concrete deck surface, and place 1" minimum depth polyester concrete overlay. For details, see the "JOINT SEAL DETAILS NO. 1" sheet.
-  Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS NO. 1" sheet.
-  Indicates limits of grind existing concrete approach to conform to existing pavement for detail, see "SECTION A-A" on "JOINT SEAL DETAILS NO. 2" sheet.



QUANTITIES

RTE 113/5 SEPARATION	BR. NO. 22-0147R
PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	47 CF
REMOVE UNSOUND CONCRETE	47 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	18,642 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	1,864 CF
PLACE POLYESTER CONCRETE OVERLAY	18,642 SQFT
REMOVE CHIP SEAL	16,302 SQFT
GRIND EXISTING BRIDGE DECK	260 SQYD
CLEAN EXPANSION JOINT	160 LF
JOINT SEAL (MR 1/2")	80 LF
JOINT SEAL (MR 1 1/2")	80 LF



ROUTE 113/5 SEPARATION

Br No. 22-0147R, Yol, ROUTE 113, PM R10.67  
 1"=20'

*Matthew Lee* 1-16-15  
 DESIGN ENGINEER

DESIGN	BY PETER KANG	CHECKED A. NOJOUMI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED A. NOJOUMI	LAYOUT	BY DAVID KISH
QUANTITIES	BY PETER KANG	CHECKED A. NOJOUMI	SPECIFICATIONS	BY TANYA KERSHELL

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 5 & 113  
 GENERAL PLAN NO. 7

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488  
 PROJECT NUMBER & PHASE: 0314000029

CONTRACT NO.: 03-0G0501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
11-20-14	7	9

USERNAME => s119538 DATE PLOTTED => 23-JUN-2015 TIME PLOTTED => 09:24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YoI	5, 113	Var	19	20

*Peter B. Kang* 1-16-15  
 REGISTERED CIVIL ENGINEER DATE

2-9-15  
 PLANS APPROVAL DATE

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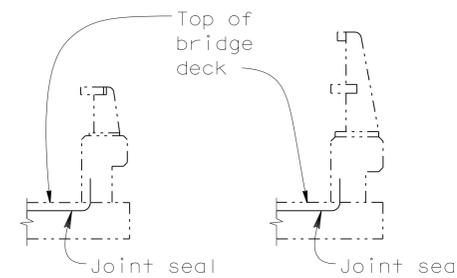
### JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (in)	APPROXIMATE LENGTH (Ft)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (in)
COUNTY ROAD 102 OC	22-0144	Abut 1 BB	1*	69.0	No	12.0
		Abut 3 EB	1*	65.0	No	12.0
MAIN STREET OH	22-0146L	Abut 1 BB	1/2 **	51.0	No	12.0
		Abut 3 EB	1**	47.0	No	12.0
PIONEER AVENUE UC	22-0169L	Abut 1 BB	1**	77.0	No	11.5
		Abut 4 EB	1**	77.0	No	11.5
PIONEER AVENUE UC	22-0169R	Abut 1 BB	1**	77.0	No	11.5
		Abut 4 EB	1**	77.0	No	11.5
EAST BEAMER STREET UC	22-0173L	Abut 1 BB	1/2	46.0	No	11.5
		Abut 2 EB	1/2	46.0	No	11.5
EAST BEAMER STREET UC	22-0173R	Abut 1 BB	1/2	46.0	No	11.5
		Abut 2 EB	1/2	46.0	No	11.5
S5-S113 CONNECTOR UC	22-0174F	Abut 1 BB	1/2	41.0	No	11.5
		Abut 2 EB	1/2	41.0	No	11.5
EAST KENTUCKY AVENUE OC	22-0148	Span 2 H	1	52.0	No	32.0
ROUTE 5/113 SEPARATION & OH	22-0152L	Abut 1 BB	1	48.0	No	11.5
		Abut 3 EB	1	41.0	No	11.5
ROUTE 5/113 SEPARATION & OH	22-0152R	Abut 1 BB	1	49.0	No	11.5
		Abut 3 EB	1	42.0	No	11.5
MULLEN OH	22-0062L	Abut 1 ☆	1/2	77.0	No	12.0
		Abut 1 BB	1	77.0	No	12.0
		Abut 4 EB	1	77.0	No	12.0
		Abut 4 ☆	1/2	77.0	No	12.0
MULLEN OH	22-0062R	Abut 1 ☆	1/2	77.0	No	12.0
		Abut 1 BB	1	77.0	No	12.0
		Abut 4 EB	1	77.0	No	12.0
		Abut 4 ☆	1/2	77.0	No	12.0
EAST WOODLAND OH	22-0130L	Abut 1 BB	1	42.0	No	11.5
		Abut 3 EB	1	40.0	No	11.5
ROUTE 113/5 SEPARATION	22-0147R	Abut 1 BB	1/2	40.0	No	11.5
		Abut 3 BW	1/2	40.0	Yes	11.5
		Abut 3 EB	1/2	40.0	No	11.5

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

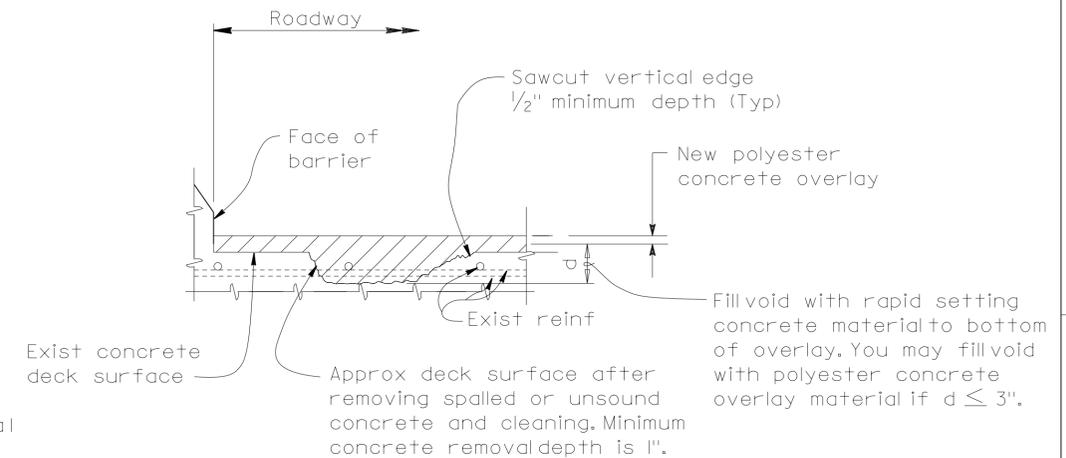
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH TO CLEAN JOINT (INCHES)
COUNTY ROAD 102 OC	22-0144	1	3
MAIN STREET OH	22-0146L	1	3
PIONEER AVENUE UC	22-0169L	1	3
PIONEER AVENUE UC	22-0169R	1	3
EAST BEAMER STREET UC	22-0173L	1	3
EAST BEAMER STREET UC	22-0173R	1	3
S5-S113 CONNECTOR UC	22-0174F	1	3
EAST KENTUCKY AVENUE OC	22-0148	1	3
ROUTE 5/113 SEPARATION & OH	22-0152L	1	3
ROUTE 5/113 SEPARATION & OH	22-0152R	1	3
ROUTE 113/5 SEPARATION	22-0147R	1	3

Locations to be determined by the Engineer.  
For details, see "DECK REPAIR DETAIL - OVERLAY"



### 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.

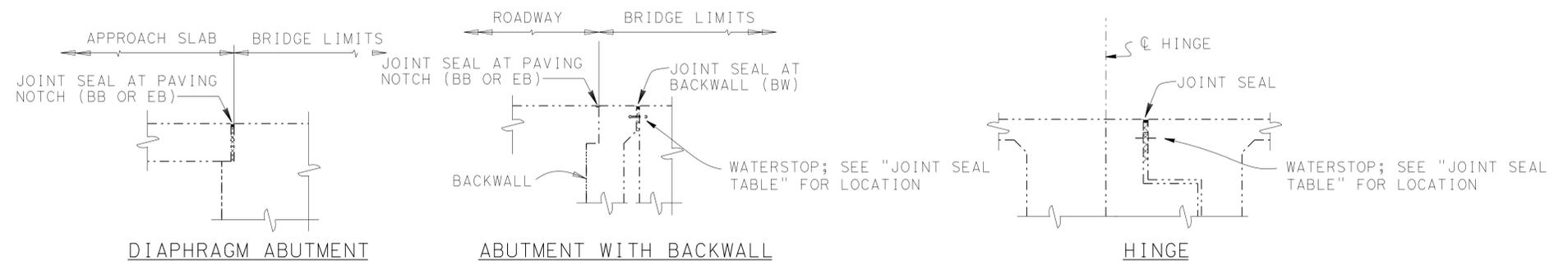


### DECK REPAIR DETAIL

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

#### LEGEND:

- BB - Paving notch at beginning of bridge
- EB - Paving notch at end of bridge
- BW - Abutment backwall joint
- H - Hinge
- \* - Use Type B Joint Seal
- \*\* - Use Bonded Joint Seal
- ☆ - Use Type B Joint Seal at back of Approach Slab



### JOINT SEAL LOCATION

DESIGN	BY PETER KANG	CHECKED A. NOJOURI
DETAILS	BY DAVID KISH	CHECKED A. NOJOURI
QUANTITIES	BY PETER KANG	CHECKED A. NOJOURI

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 5 & 113  
JOINT SEAL DETAILS NO. 1

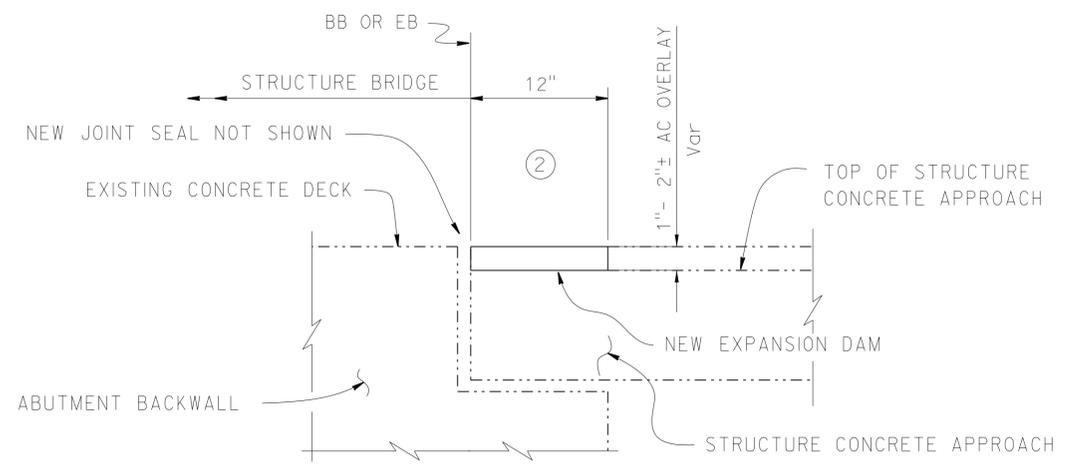
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	5, 113	Var	20	20

*Peter B. Kang* 1-16-15  
 REGISTERED CIVIL ENGINEER DATE

2-9-15  
 PLANS APPROVAL DATE

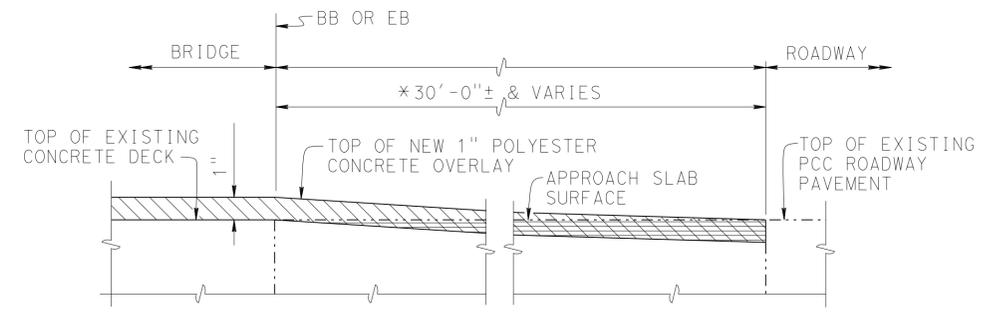
PETER B. KANG  
 No. C 70336  
 Exp. 9-30-16  
 CIVIL  
 STATE OF CALIFORNIA

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**SECTION B-B**  
No Scale

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of grind existing bridge deck.
  - Indicates limits of prepare concrete bridge deck surface and place new 1" minimum depth polyester concrete overlay.



**SECTION A-A**  
No Scale

NOTE:  
\* - Indicates 10'-0"± at Br. No. 22-0144, COUNTY ROAD 102 OVERCROSSING

DESIGN	BY PETER KANG	CHECKED A. NOJOURI
DETAILS	BY DAVID KISH	CHECKED A. NOJOURI
QUANTITIES	BY PETER KANG	CHECKED A. NOJOURI

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE**  
**STRUCTURE MAINTENANCE DESIGN**

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTES 5 & 113**  
**JOINT SEAL DETAILS NO. 2**