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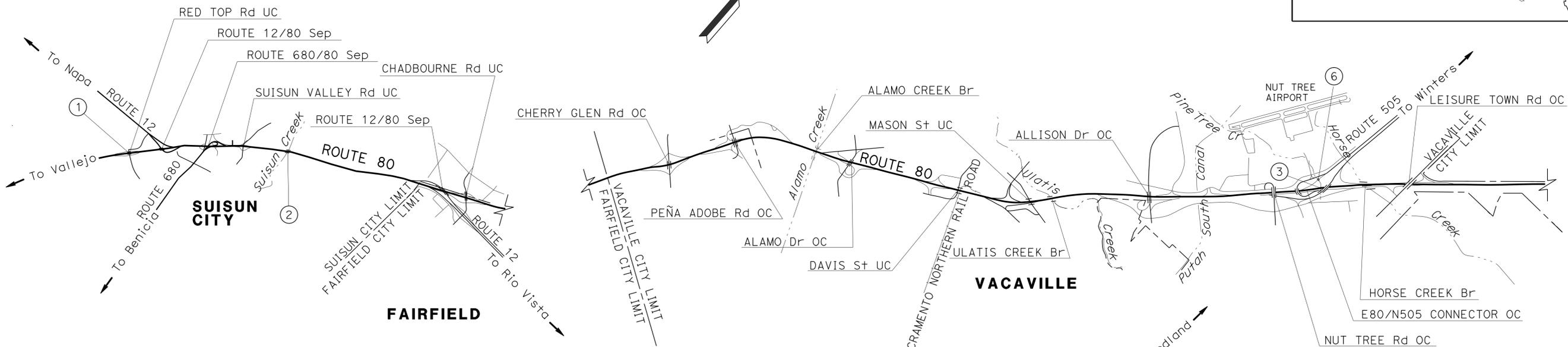
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY**
**IN SOLANO COUNTY
AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	80,113,505	Var	1	12

LOCATION MAP



LOCATIONS OF CONSTRUCTION

LOCATION	COUNTY	ROUTE	PM	BRIDGE No.	BRIDGE NAME
①	Sol	80	R11.39	23 0165	RED TOP ROAD UC
②	Sol	80	14.55	23 0007	SUISUN CREEK
③	Sol	80	R28.32	23 0036L	PINE TREE CREEK
④	Sol	80	R43.48	23 0154F	W80/N113 CONNECTOR OC
⑤	Sol	113	R22.08	23 0178F	S113/E80 CONNECTOR SEPARATION
⑥	Sol	505	R0.01	23 0074L	PINE TREE CREEK

SOLANO COUNTY

YOLO COUNTY

NO SCALE

6-24-13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

August 26, 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.



CONTRACT No.	04-3E5004
PROJECT ID	0412000373

PROJECT MANAGER
RAMSES SARGISS

DESIGN MANAGER
FUK NYAN KURNIAWAN

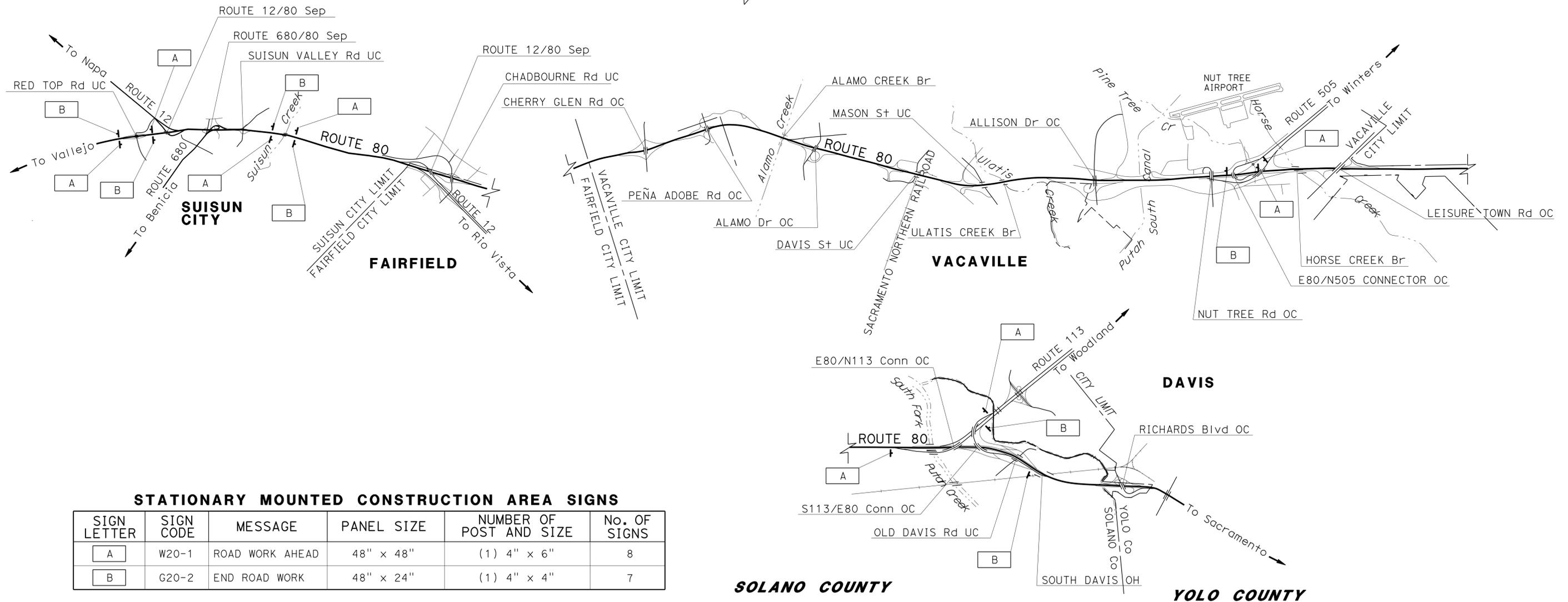
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SoI	80,113,505	Var	2	12
		<i>Claudia K. Fang</i> 6-27-13 REGISTERED CIVIL ENGINEER DATE			
		8-26-13		PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTE:

- EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.

LEGEND:

CONSTRUCTION AREA SIGN



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	No. OF SIGNS
A	W20-1	ROAD WORK AHEAD	48" x 48"	(1) 4" x 6"	8
B	G20-2	END ROAD WORK	48" x 24"	(1) 4" x 4"	7

CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
 CLAUDIA K. FANG
 PARWIN W. SARWARY
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 LOURDES DAVID

6/1/13
6/1/13

REVISOR
DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Soi	80,113,505	Var	3	12
				6-24-13	
REGISTERED CIVIL ENGINEER				DATE	
				8-26-13	
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

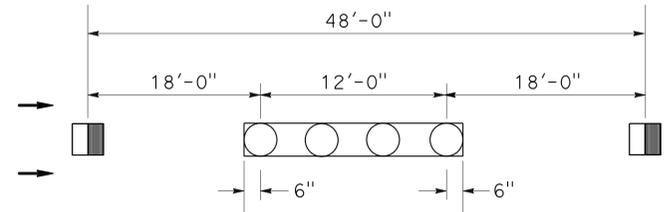


NOTES:

1. INSTALL 4" WHITE STRIPE AFTER INSTALLING PAVEMENT MARKERS.
2. DO NOT REMOVED PAVEMENT DELINEATION AT MORE THAN 2 LOCATIONS AT A TIME.

LEGEND:

- TYPE G ONE-WAY CLEAR RETROREFLECTIVE
- TYPE A WHITE NON-REFLECTIVE
- 4" WHITE



DETAIL 13M
(SEE NOTE 1)

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOCATION	BRIDGE NAME BRIDGE NUMBER Co Rte PM	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKER	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	PAVEMENT MARKER			THERMOPLASTIC TRAFFIC STRIPE	
						NON-REFLECTIVE	RETROREFLECTIVE		SOLID	
							TYPE A	TYPE G	TYPE H	YELLOW
②	SUISUN CREEK Br No. 23 0007 Sol 80 14.55	13M	97		247	76	21			360
		27B			73					73
③	PINE TREE CREEK Br No. 23 0036L Sol 80 R28.32	13M	16		39	12	4			129
		25	1	43				1	43	
④	W80/N113 CONNECTOR OC Br No. 23 0154F Sol 80 R43.48	13M	38		95	29	9			348
		25	9	348				9	348	
		27B			348					348
⑤	S113/E80 CONNECTOR SEPARATION Br No. 23 0178F Sol 113 R22.08	13M	40		100	31	9			366
		25	9	366				9	366	
		27B			366					366
⑥	PINE TREE CREEK Br No. 23 0074L Sol 505 R0.1	25	1	17				1	17	
		27B			17					17
SUBTOTAL			211	774	1328	148	43	20	774	2050
TOTAL			211	774	1328	148	63		2824	

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 FUNCTIONAL SUPERVISOR: FUK NYAN KURNIAWAN
 CALCULATED/DESIGNED BY: YETENDRA JANGID
 CHECKED BY: ABDUL REJA
 REVISED BY: 6/1/13
 DATE REVISED: 6/1/13

LAST REVISION | DATE PLOTTED => 17-OCT-2013
 08-22-13 | TIME PLOTTED => 12:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Soi	80,113,505	Var	4	12

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 8-26-13

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

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

REVISED STANDARD PLAN RSP A10B

	<u>M</u>
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
	<u>N</u>
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
	<u>O</u>
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
	<u>P</u>
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

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

	<u>S</u>
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
	<u>T</u>
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

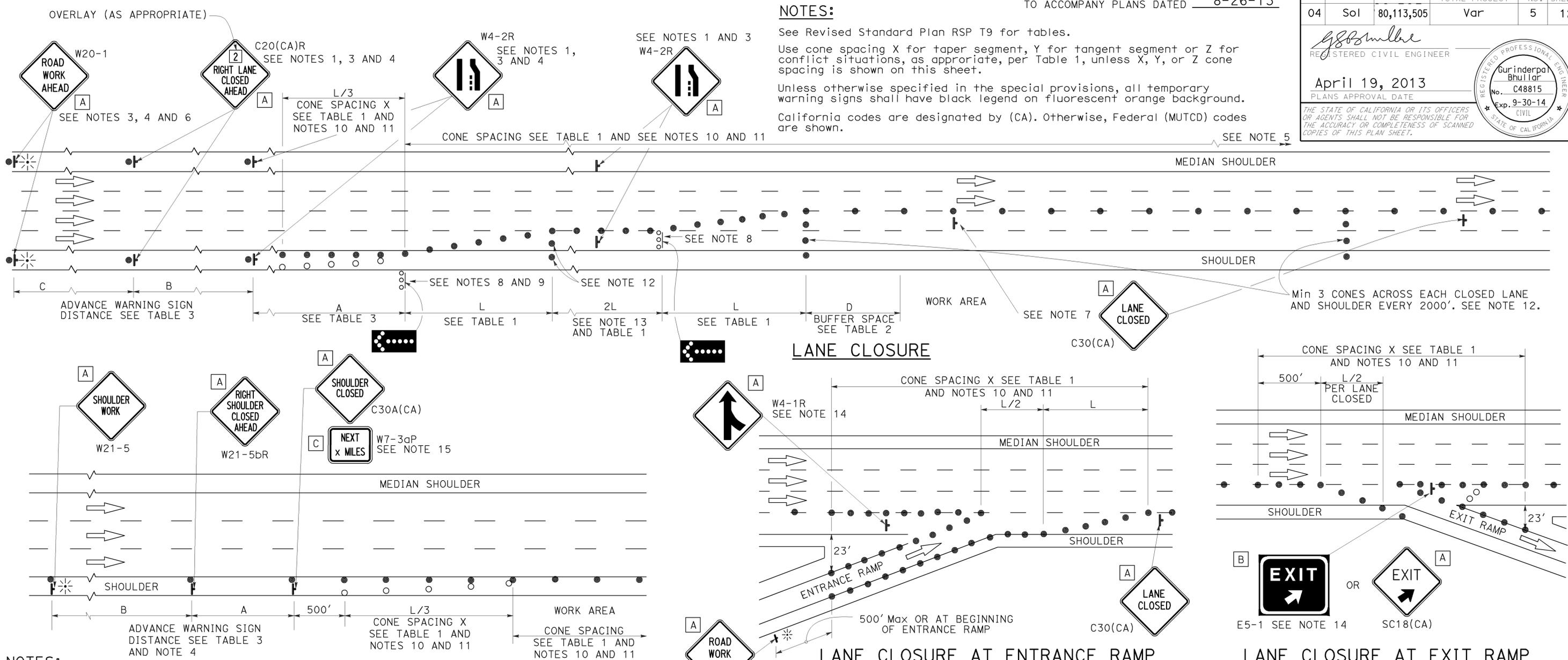
	<u>T continued</u>
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL
	<u>U</u>
UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
	<u>V</u>
V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME
	<u>W</u>
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
	<u>X</u>
X Sec	CROSS SECTION
Xing	CROSSING
	<u>Y</u>
Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Soi	80,113,505	Var	5	12

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL 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.



- NOTES:**
1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
 2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 3. Duplicate sign installations are not required:
 - a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

- SHOULDER CLOSURE**
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA)L and W4-2L signs shall be used.
 7. Place a C30(CA) sign every 2000' throughout length of lane closure.
 8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

- LANE CLOSURE AT ENTRANCE RAMP**
- 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

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
04	Soi	80,113,505	Var	6	12

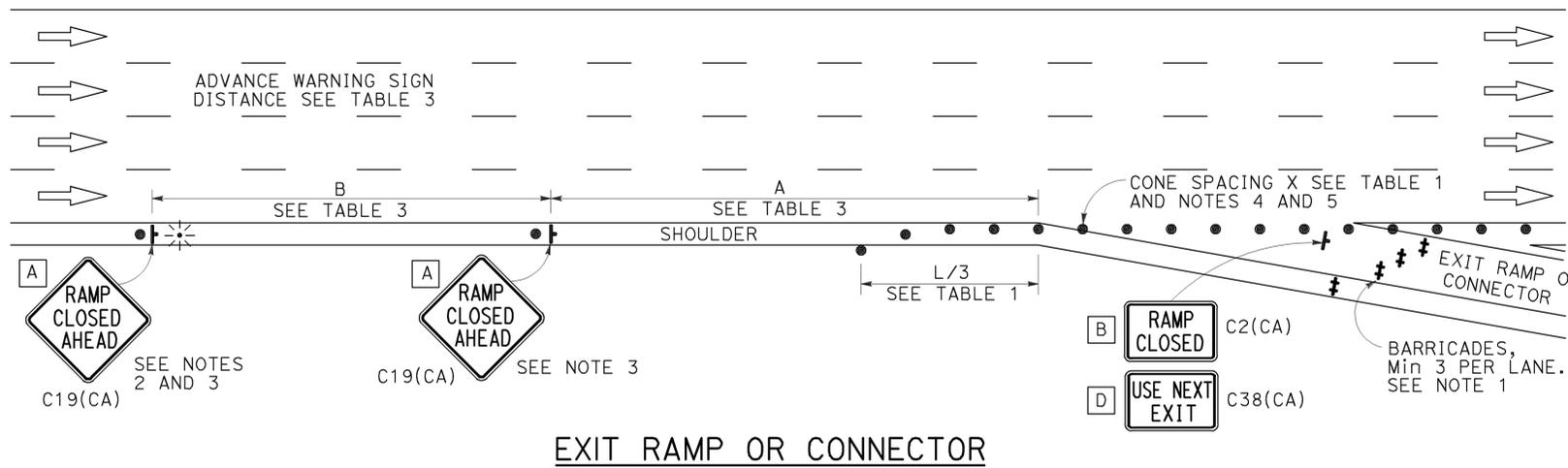
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

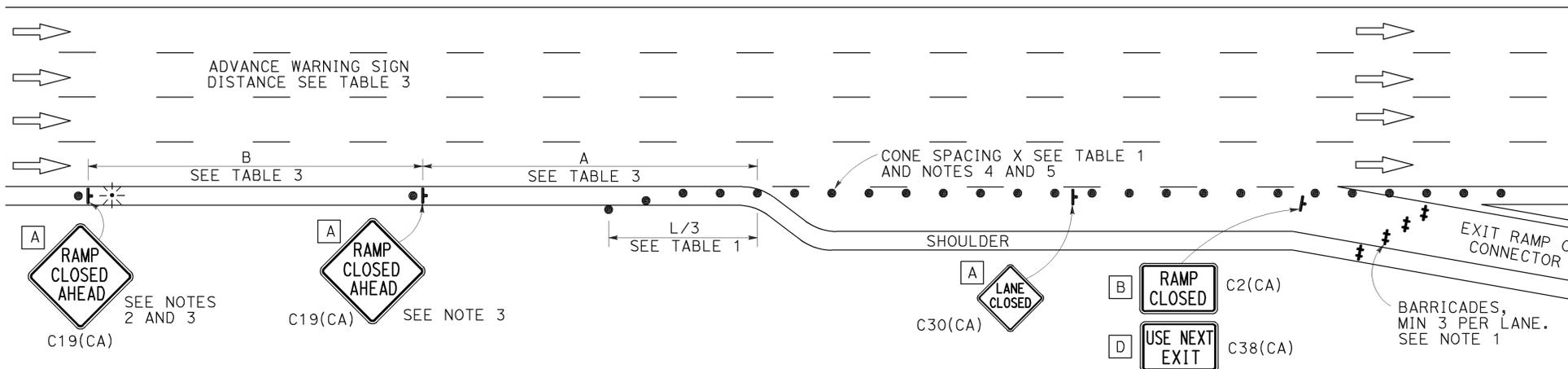
TO ACCOMPANY PLANS DATED 8-26-13

NOTES:

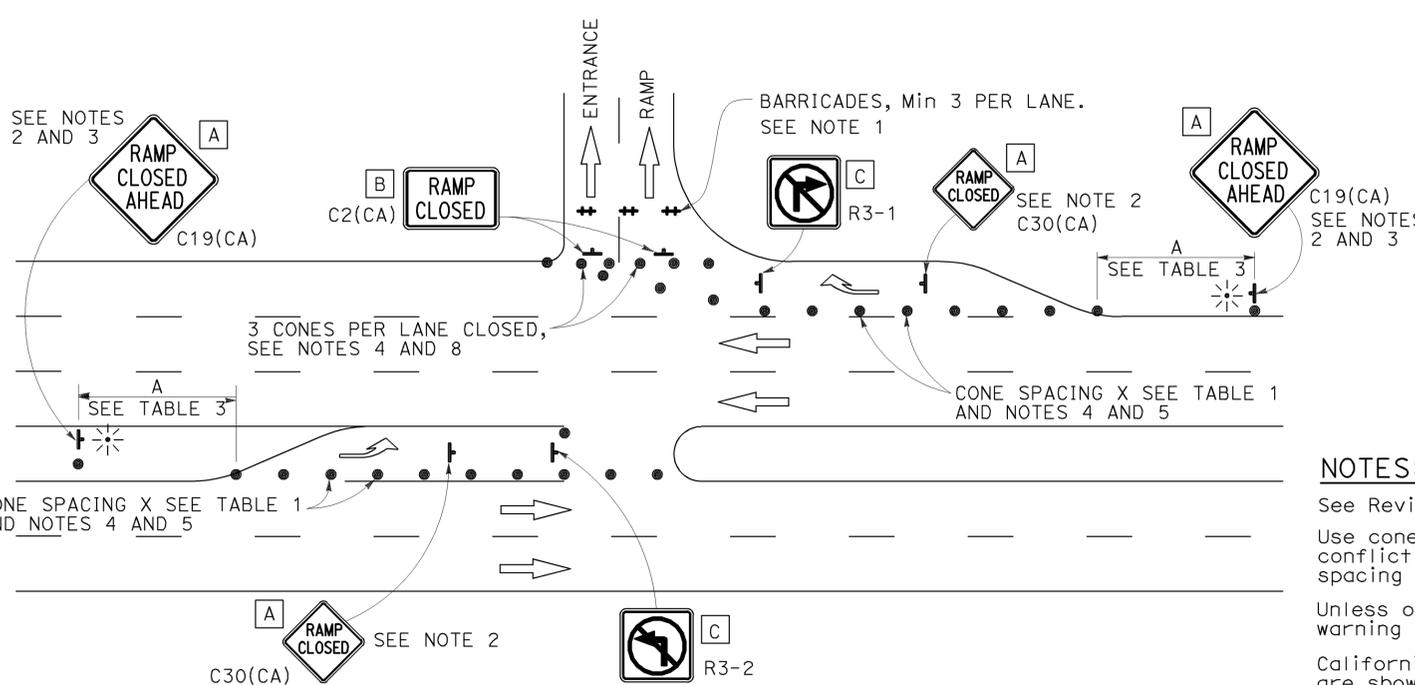
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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.



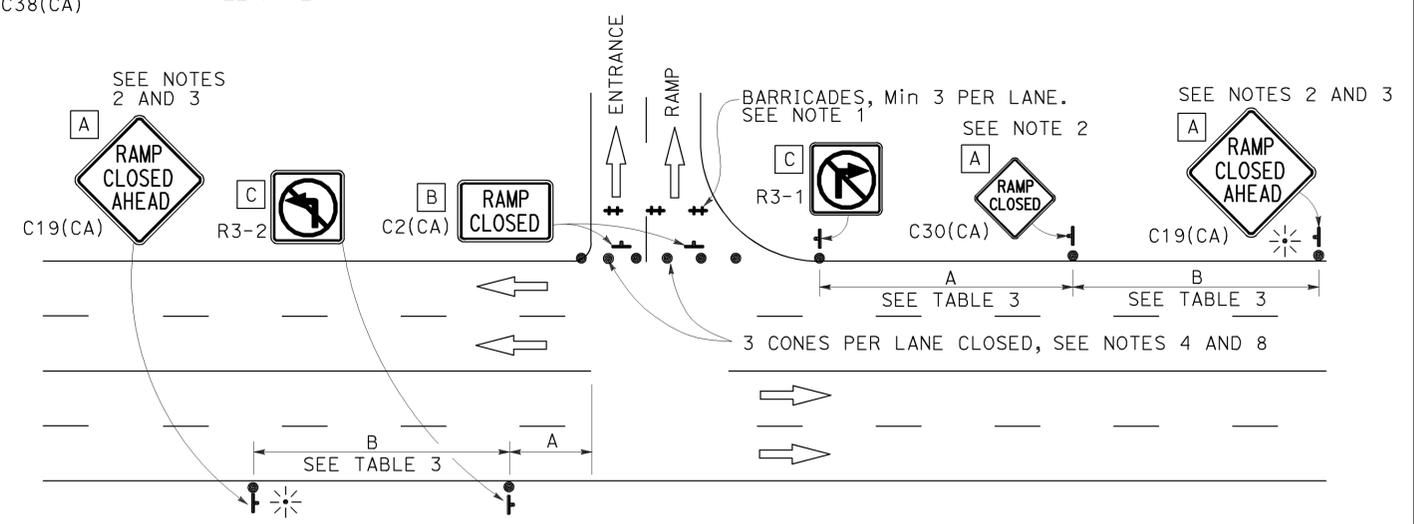
EXIT RAMP OR CONNECTOR



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

TO ACCOMPANY PLANS DATED 8-26-13

TABLE 1

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

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

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

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

TABLE 2

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

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

TABLE 3

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

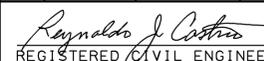
* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

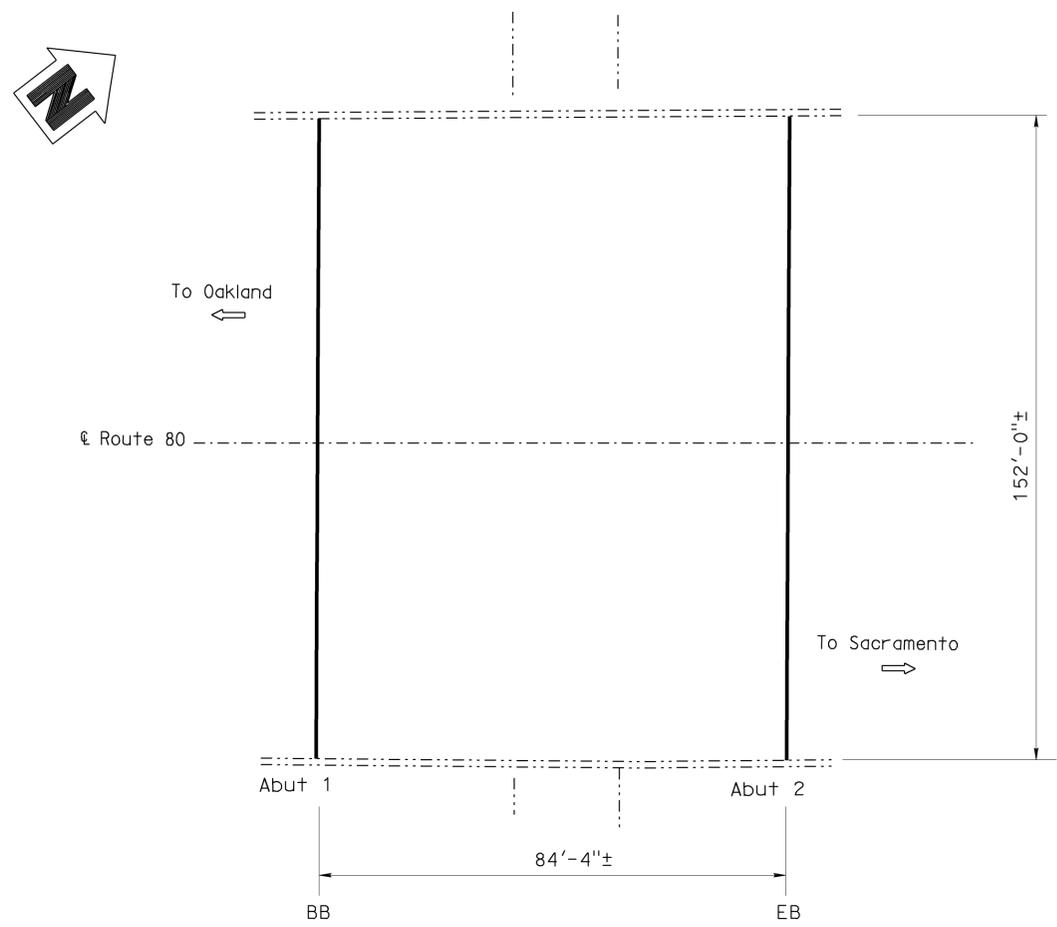
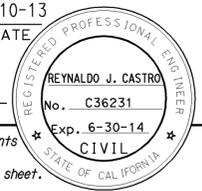
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**

NO SCALE

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

2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Soi	80,113,505	Var	8	12
 REGISTERED CIVIL ENGINEER			06-10-13	DATE	
			8-26-13	PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



LEGEND:

- INDICATES EXISTING STRUCTURE
- /——— INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL TABLE AND DETAILS" SHEET.

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN 1
2	GENERAL PLAN 2
3	GENERAL PLAN 3
4	JOINT SEAL TABLE & DETAILS
5	STRUCTURE APPROACH TYPE R(30D)

① **RED TOP ROAD UC**
 BR. No. 23-0165, Soi Rte 80, PM R11.39
 NO SCALE

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")

RED TOP ROAD UC	BRIDGE NO. 23-0165
QUANTITIES	
CLEAN EXPANSION JOINT	304 LF
JOINT SEAL (MR 1/2")	304 LF

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

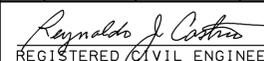
 DESIGN ENGINEER 06-10-13	DESIGN	BY R. Castro	CHECKED A. Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	23-0165
	DETAILS	BY M. YU	CHECKED R. Castro	LAYOUT	BY M. YU			POST MILE	R11.39
	QUANTITIES	BY R. Castro	CHECKED A. Kushkaki	SPECIFICATIONS	BY			PLANS AND SPECS COMPARED	

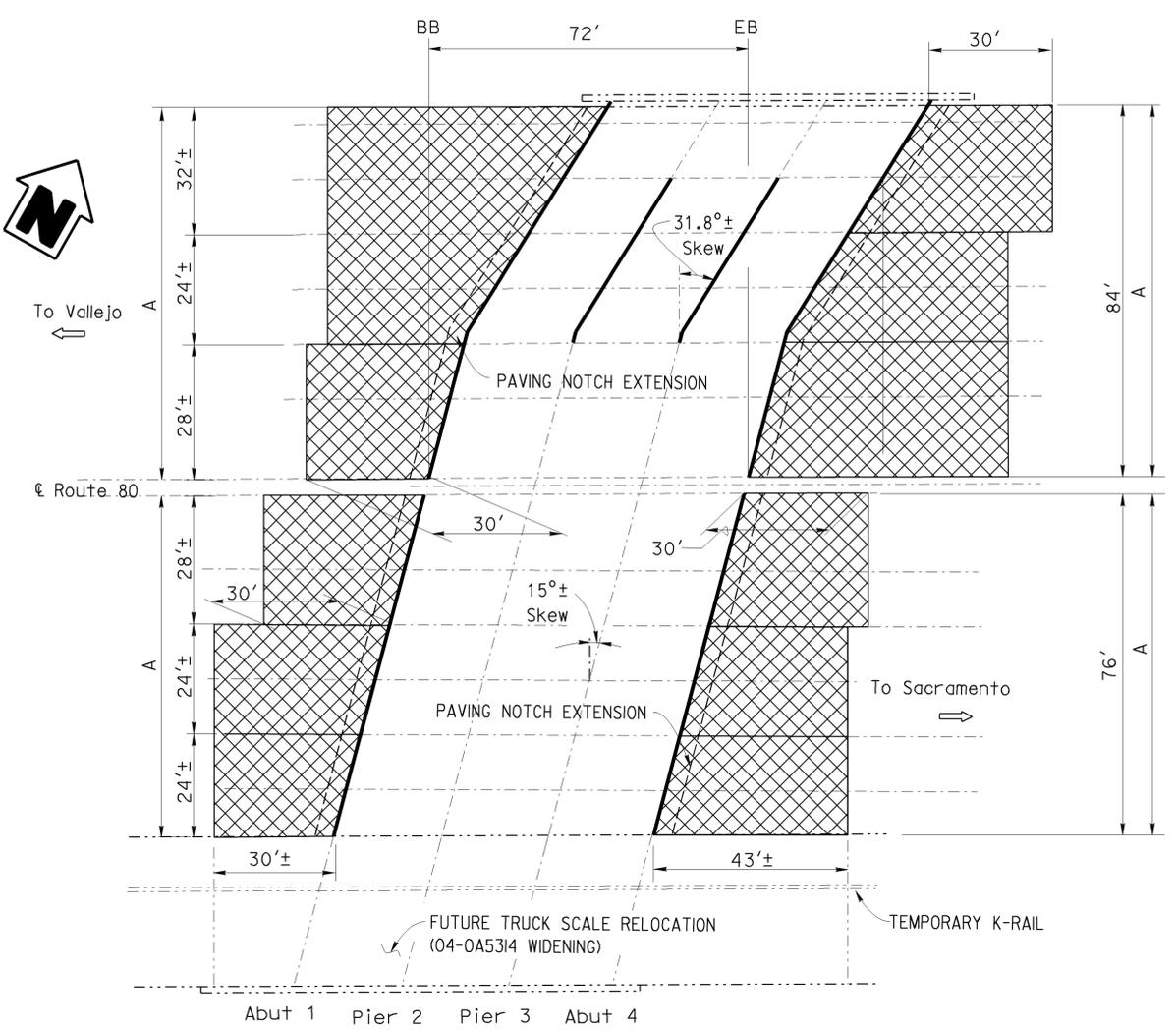
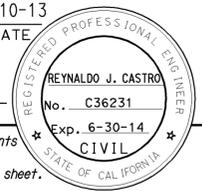
REPLACE JOINT SEALS & TREAT BRIDGE DECKS

RED TOP ROAD UC

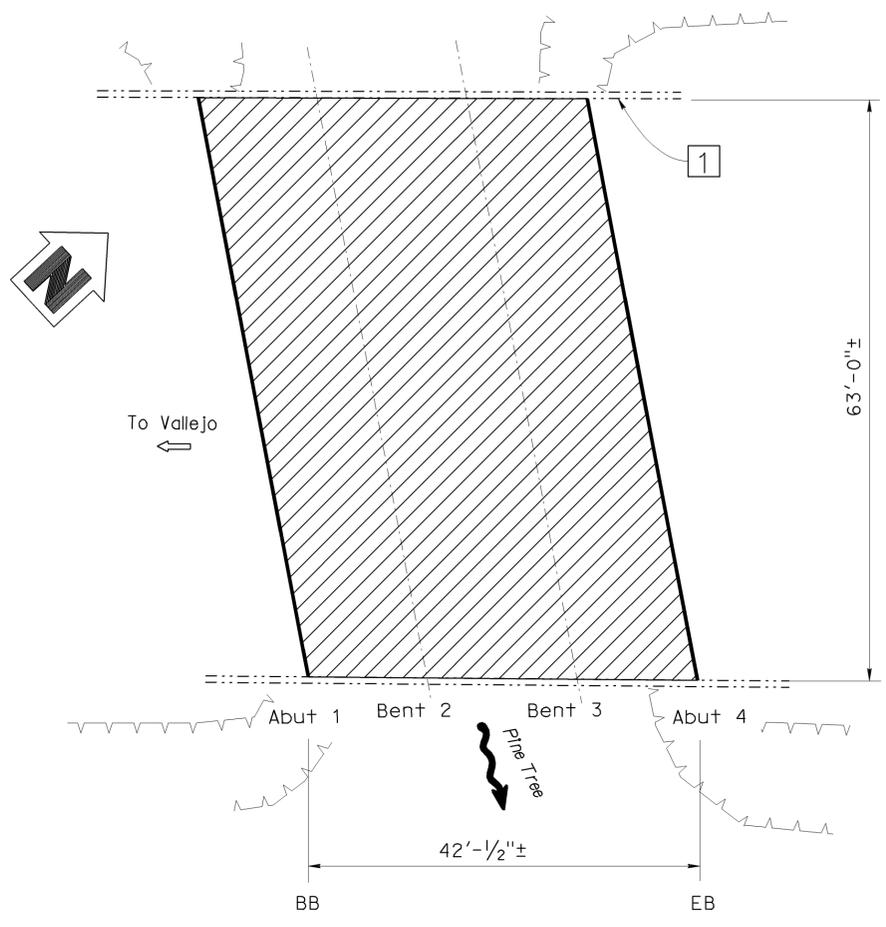
GENERAL PLAN 1

USERNAME => s130817 DATE PLOTTED => 19-AUG-2013 TIME PLOTTED => 14:28

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Soi	80,113,505	Var	9	12
			06-10-13		
REGISTERED CIVIL ENGINEER			DATE		
			8-26-13		
			PLANS APPROVAL DATE		
<small>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.</small>					



② **SUISUN CREEK**
BR. No. 23-0007, Sol Rte 80, PM 14.55
NO SCALE



③ **PINE TREE CREEK**
BR. No. 23-0036L, Sol Rte 80, PM R28.32
NO SCALE

- LEGEND:**
- INDICATES EXISTING STRUCTURE
 -  INDICATES LIMITS OF PREPARE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.
 - ① INDICATES BRIDGE IDENTIFICATION TO BE PAINTED AS FOLLOWS:
"PINE TREE CREEK
BR NO. 23-0036L RTE 80 PM R28.32
1963 & 1992"
 -  INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL TABLE AND DETAILS" SHEET.
 -  INDICATES LIMITS OF REMOVE EXISTING APPROACH SLAB AND REPLACE WITH TYPE R(30D) APPROACH SLAB.
 - A PAVING NOTCH EXTENSION REQUIRED

SUISUN CREEK BRIDGE NO. 23-0007

QUANTITIES	
AGGREGATE BASE (APPROACH SLAB)	49 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	485 CY
PAVING NOTCH EXTENSION	260 CF
CLEAN EXPANSION JOINT	85 LF
JOINT SEAL (MR 1/2")	432 LF

PINE TREE CREEK BRIDGE NO. 23-0036L

QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	2,646 SQFT
TREAT BRIDGE DECK	2,646 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	29 GAL
PAINT BRIDGE IDENTIFICATION	1 EA
CLEAN EXPANSION JOINT	128 LF
JOINT SEAL (MR 1/2")	128 LF

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

REPLACE JOINT SEALS & TREAT BRIDGE DECKS

SUISUN CREEK BRIDGE & PINE TREE CREEK

GENERAL PLAN 2

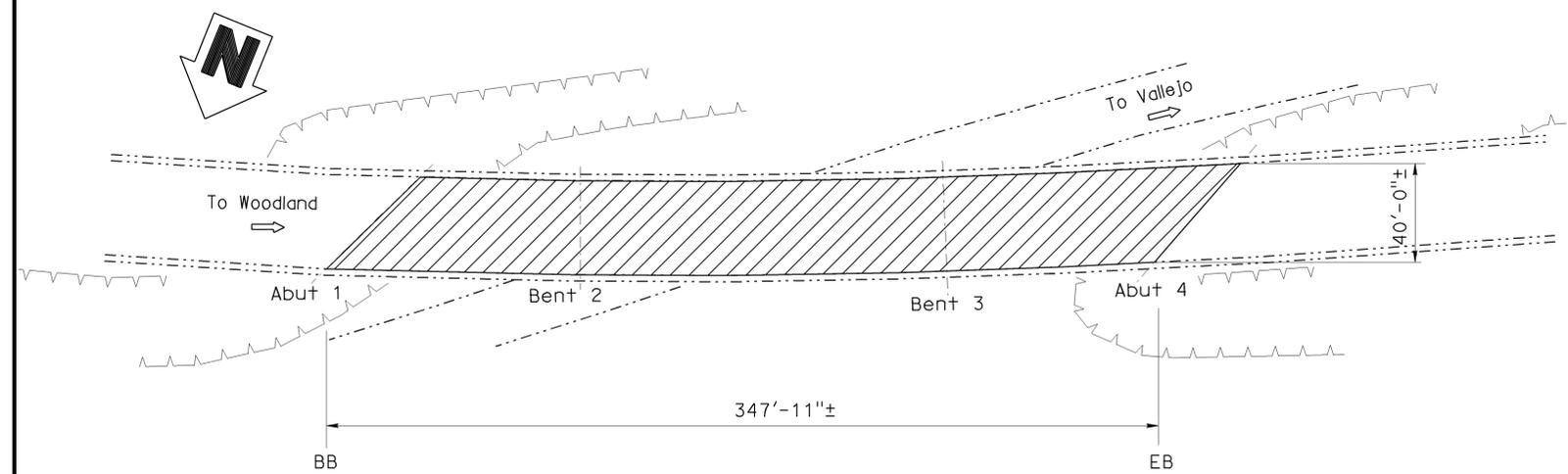
 DESIGN ENGINEER 06-12-13	DESIGN	BY R. Castro	CHECKED A. Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	23-0007	
	DETAILS	BY M. YU	CHECKED R. Castro	LAYOUT	BY M. YU			CHECKED R. Castro	POST MILE	14.35, R28.32
	QUANTITIES	BY R. Castro	CHECKED A. Kushkaki	SPECIFICATIONS	BY			PLANS AND SPECS COMPARED		

TIME PLOTTED => 09:28 USERNAME => s130817 DATE PLOTTED => 22-JUL-2013

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Sol	80,113,505	Var	10	12

REYNALDO J. CASTRO 06-10-13
 REGISTERED CIVIL ENGINEER DATE
 8-26-13
 PLANS APPROVAL DATE
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- LEGEND:**
- INDICATES EXISTING STRUCTURE
 - [Hatched Area] INDICATES LIMITS OF PREPARE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.
 - INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL TABLE AND DETAILS" SHEET.
 - [1] INDICATES BRIDGE IDENTIFICATION TO BE PAINTED AS FOLLOWS:
"PINE TREE CREEK
BR No. 23-0074L RTE 505 PM 0.1
1946"

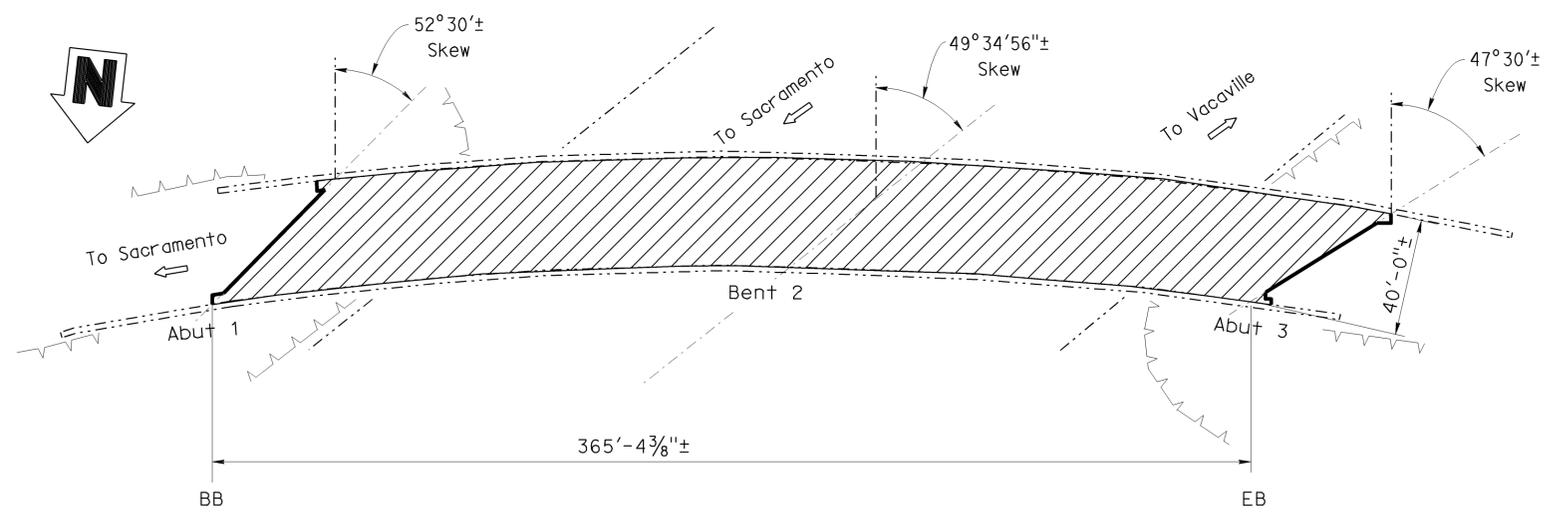


④ W80-N113 CONNECTOR OC
 BR. No. 23-0154F, Sol Rte 80, PM R43.48
 NO SCALE

W80-N113 CONN OC BRIDGE NO. 23-0154F

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	13,917	SQFT
TREAT BRIDGE DECK	13,917	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	155	GAL

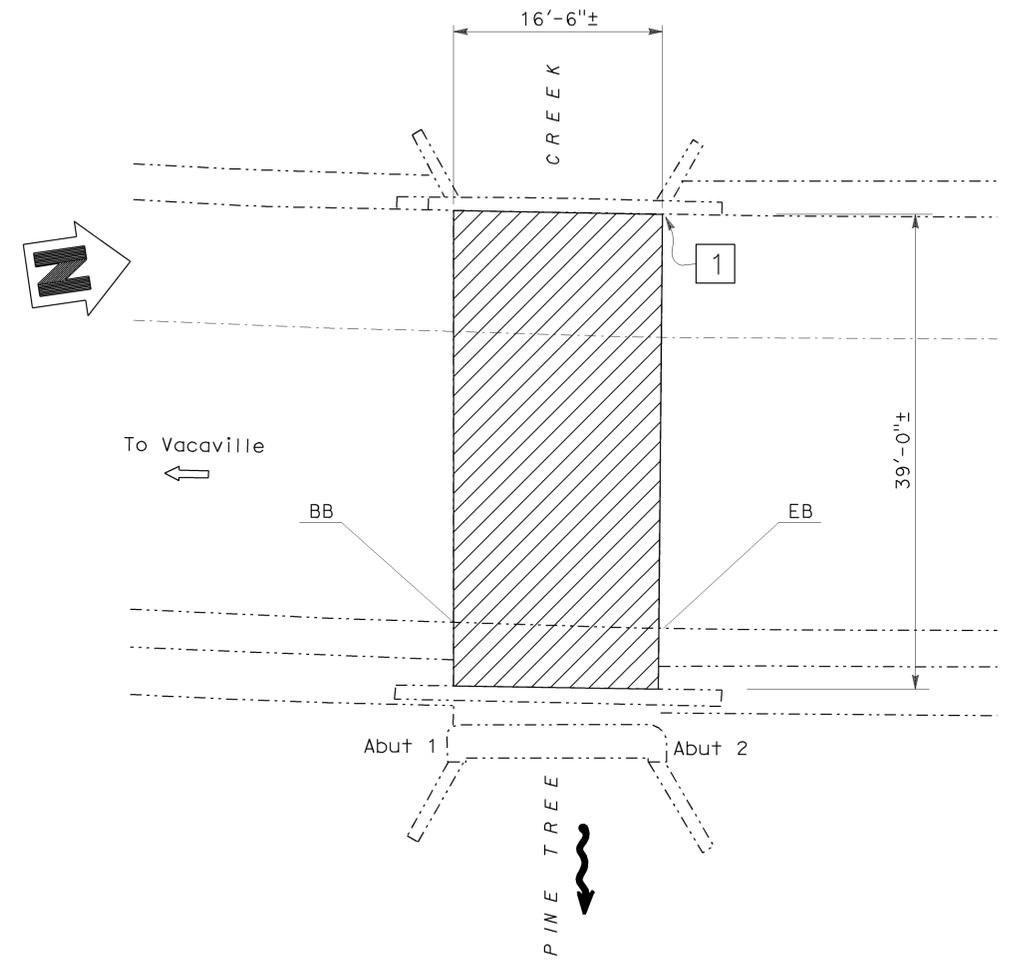


⑤ S113-E80 CONNECTOR SEPARATION
 BR. No. 23-0178F, Sol Rte 113, PM R22.08
 NO SCALE

S113-E80 CONN SEP BRIDGE NO. 23-0178F

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	14,614	SQFT
TREAT BRIDGE DECK	14,614	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	162	GAL
CLEAN EXPANSION JOINT	134	LF
JOINT SEAL (MR 1 1/2")	134	LF



⑥ PINE TREE CREEK
 BR. No. 23-0074L, Rte 505, PM R0.01
 NO SCALE

PINE TREE CREEK BRIDGE NO. 23-0074L

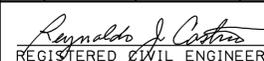
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	644	SQFT
TREAT BRIDGE DECK	644	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	7	GAL
PAINT BRIDGE IDENTIFICATION	1	EA

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

REPLACE JOINT SEALS & TREAT BRIDGE DECKS

 DESIGN ENGINEER 06-10-13	DESIGN	BY R. Castro	CHECKED A. Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	W80-N113 CONNECTOR OC & S113-E80 CONNECTOR SEPARATION GENERAL PLAN 3	
	DETAILS	BY M. YU	CHECKED R. Castro	LAYOUT	BY M. YU			CHECKED R. Castro		23-0154F
	QUANTITIES	BY R. Castro	CHECKED A. Kushkaki	SPECIFICATIONS	BY			CHECKED PLANS AND SPECS COMPARED		23-0178F

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Soi	80,113,505	Var	11	12
			06-10-13		
REGISTERED CIVIL ENGINEER			DATE		
			8-26-13		
			PLANS APPROVAL DATE		
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JOINT SEAL TABLE

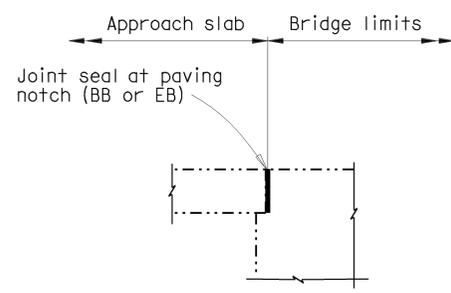
BRIDGE LOCATION NO.	BRIDGE NUMBER	BRIDGE NAME	LOCATION	Min. "MR" (in)	APPROX. LENGTH (ft)	EXISTING WATERSTOP	APPROX. DEPTH TO CLEAN JOINTS
①	23-0165	RED TOP ROAD UC	Abut 1	1/2"	152	no	12"
			Abut 2	1/2"	152	no	12"
②	23-0007	SUISUN CREEK BRIDGE	Abut 1	1/2"	175	no	12"
			Pier 2	1/2"	46	no	6"
			Pier 3	1/2"	46	no	6"
			Abut 4	1/2"	175	no	12"
③	23-0036L	PINE TREE CREEK	Abut 1	1/2"	64	no	12"
			Abut 4	1/2"	64	no	12"
⑤	23-0178F	S113-E80 CONNECTOR SEPARATION	Abut 1	1 1/2"	67	no	12"
			Abut 3	1 1/2"	67	no	12"

The following notes apply to JOINT SEAL TYPE A:

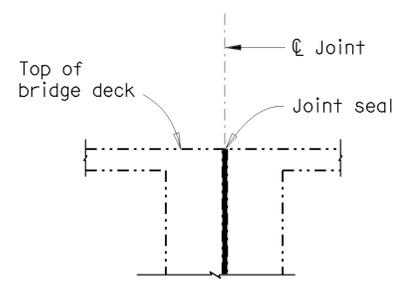
Install Type A joint seal 3" up into curb or rail on the low side of the deck where joint matches curb or rail joint.

The following notes apply to JOINT SEAL TYPE B:

- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- 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.
- W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - 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.
- 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.

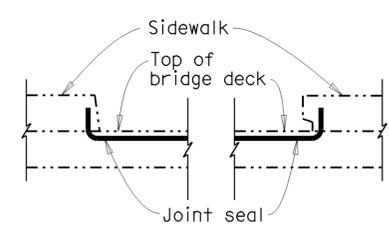


DIAPHRAGM ABUTMENT

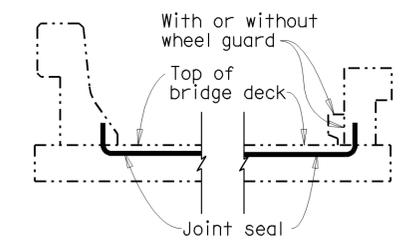


BENT

JOINT SEAL LOCATION
NO SCALE



SIDEWALK



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK
Details shown for illustration purposes only.
For use only where deck joint matches sidewalk, curb or barrier rail joint.
NO SCALE

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

DESIGN	BY R. CASTRO	CHECKED A. KUSHKAKI
DETAILS	BY M. YU	CHECKED R. CASTRO
QUANTITIES	BY R. CASTRO	CHECKED A. KUSHKAKI

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Var
POST MILE	Var

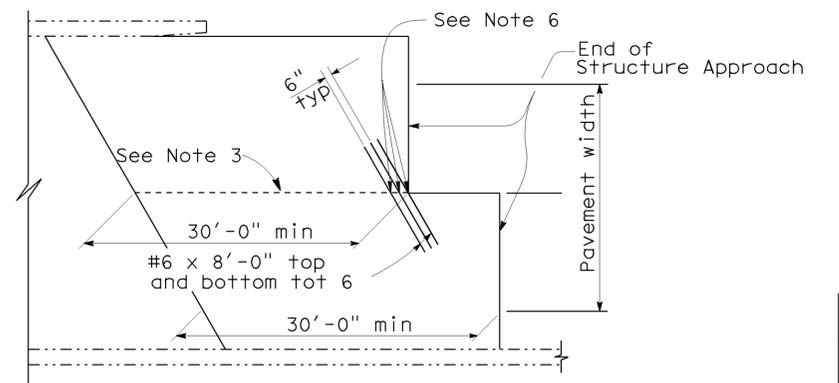
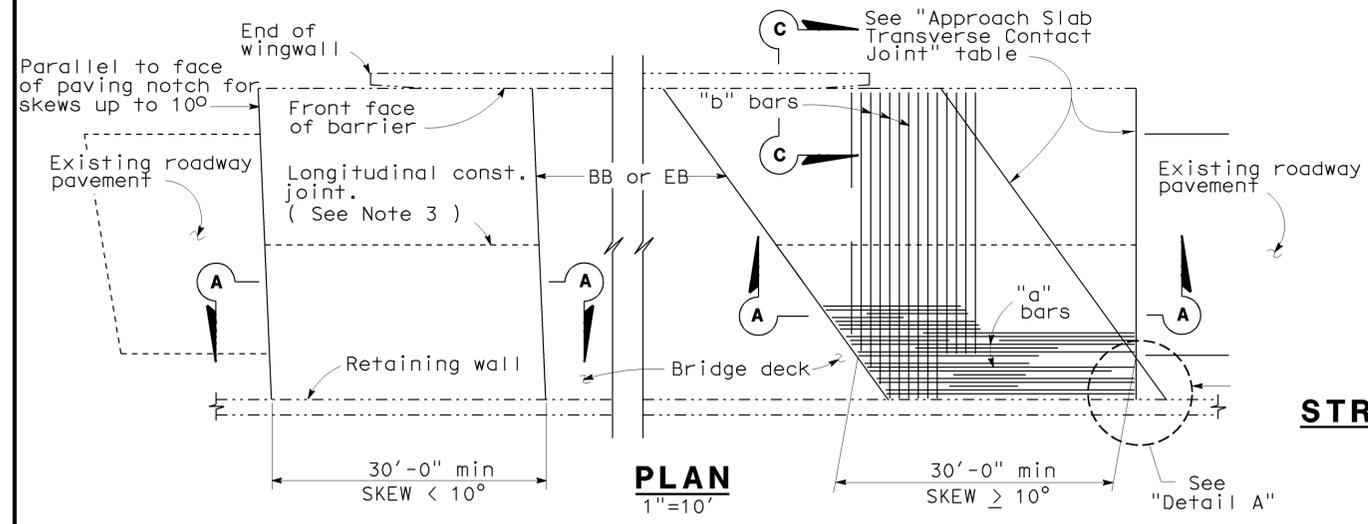
REPLACE JOINT SEALS & TREAT BRIDGE DECKS	
VARIOUS BRIDGES	
JOINT SEAL TABLE & DETAILS	

DIST.	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SoI	80,113,505	Var	12	12

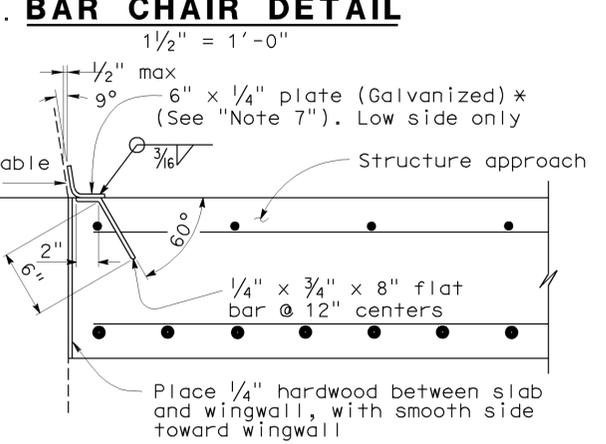
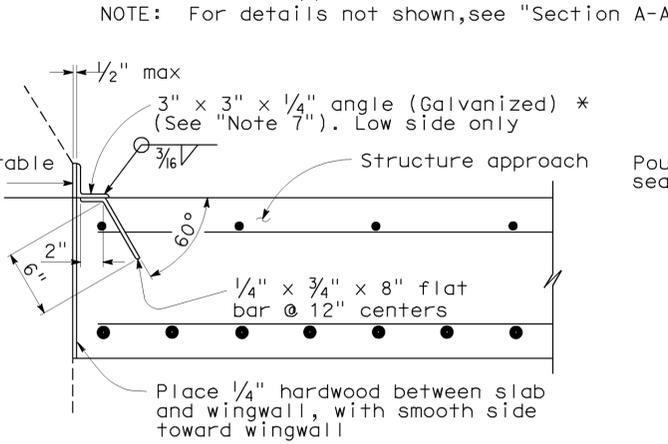
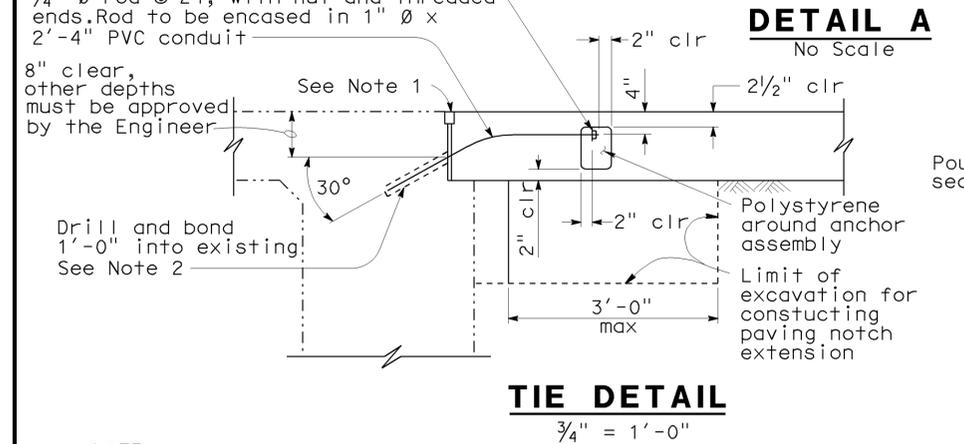
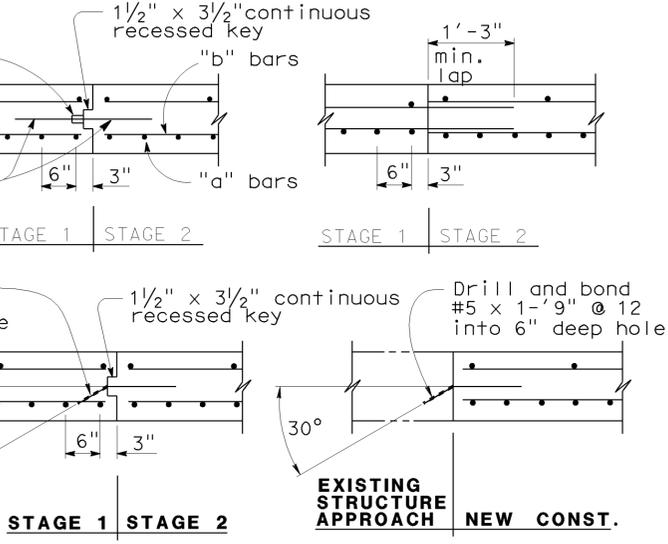
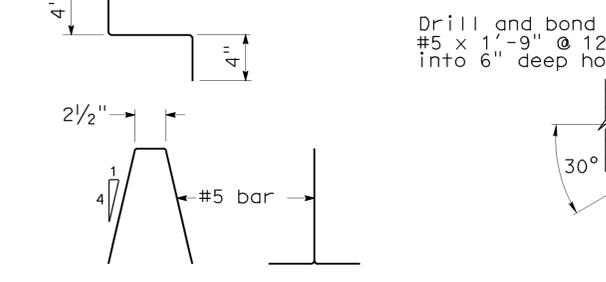
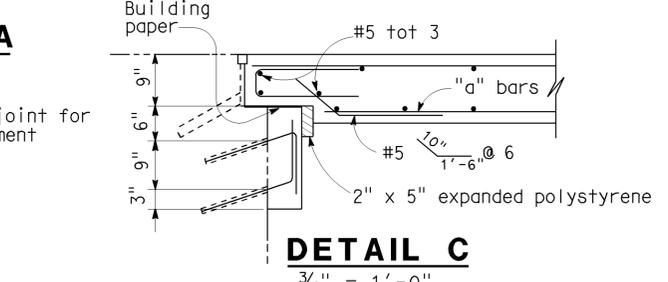
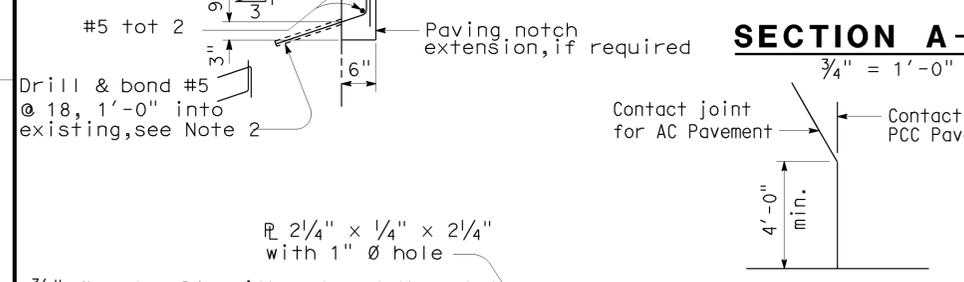
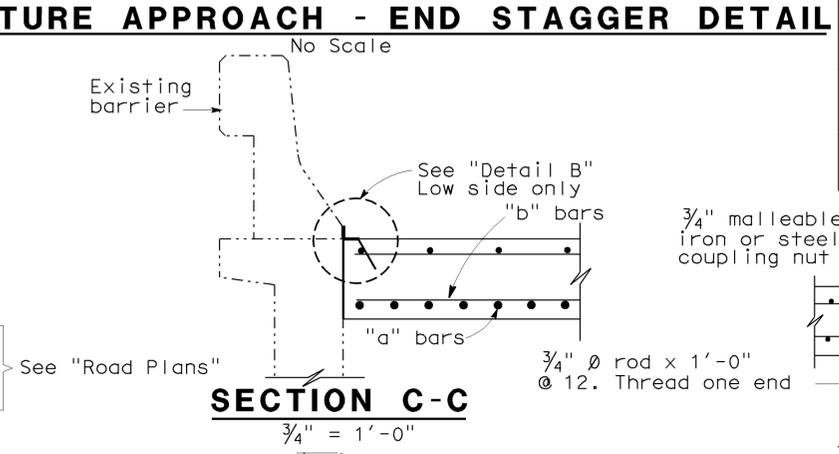
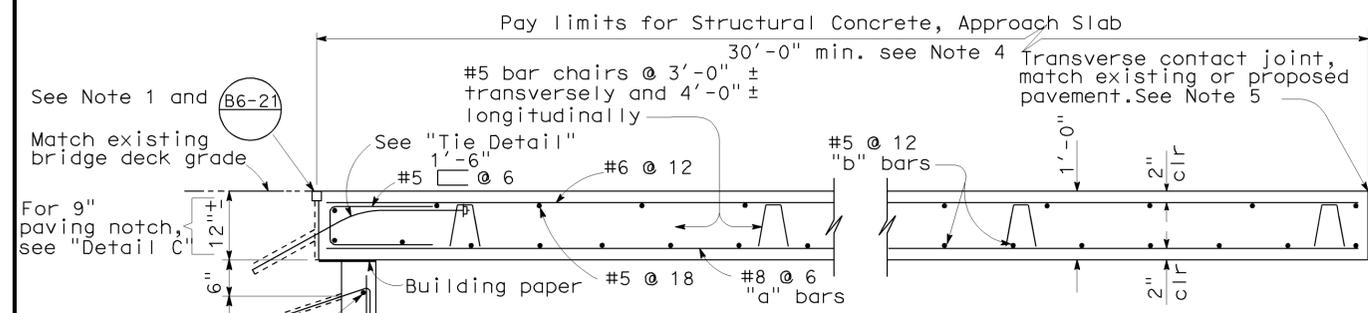
Registered Engineer - CIVIL
 REYNALDO J. CASTRO
 No. C36231
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
 06-10-13
 8-26-13

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APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	Parallel to face of paving notch	Parallel to face of paving notch
10° - 45°	Parallel to face of P N use (Detail A)	Stagger lines 24' to 36' apart
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line



- NOTES:**
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - Space to avoid existing prestress anchorages and main reinforcement.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
 - Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint.
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10.
 - Couplers are required for stage construction.
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable.

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

*(TO BE USED WITH TYPE 25 OR TYPE 27 CONCRETE BARRIER)

*(TO BE USED WITH TYPE 732 OR TYPE 736 CONCRETE BARRIER)

STANDARD DRAWING			
RELEASE DATE 3/14/05	DESIGN BY M. TRAFFALIS	CHECKED E. THORKILDSEN	RELEASED BY
FILE NO. xs3-140e	SUBMITTED BY M. HA	DRAWING DATE 8/92	OFFICE CHIEF

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.
Var

MILE POST
Var

REPLACE JOINT SEALS AND STRUCTURE APPROACH

STRUCTURE APPROACH TYPE R(30D)

UNIT: 04000	PROJECT NUMBER & PHASE: 0412000373	CONTRACT NO.: 04-3E5001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 5 OF 5
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