

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	2	18

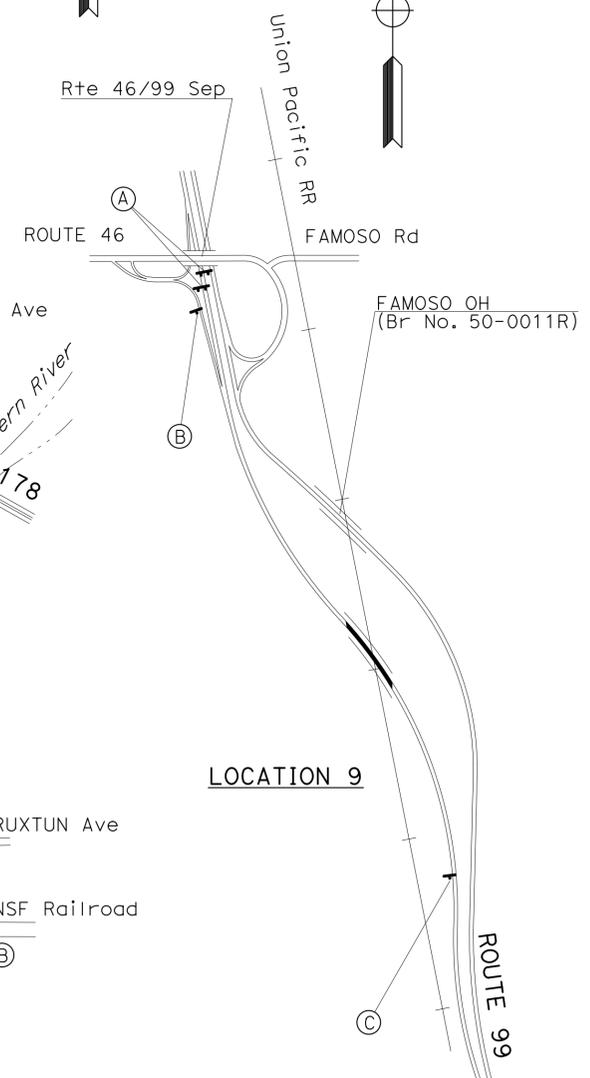
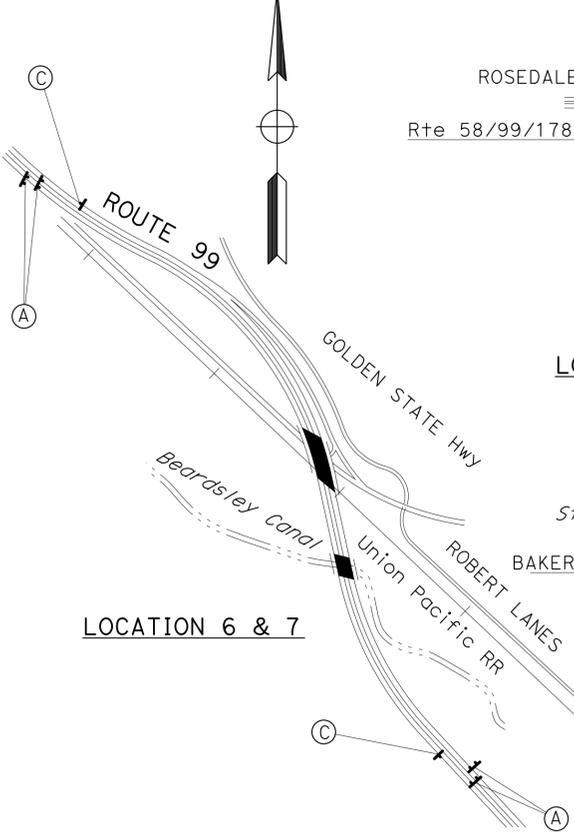
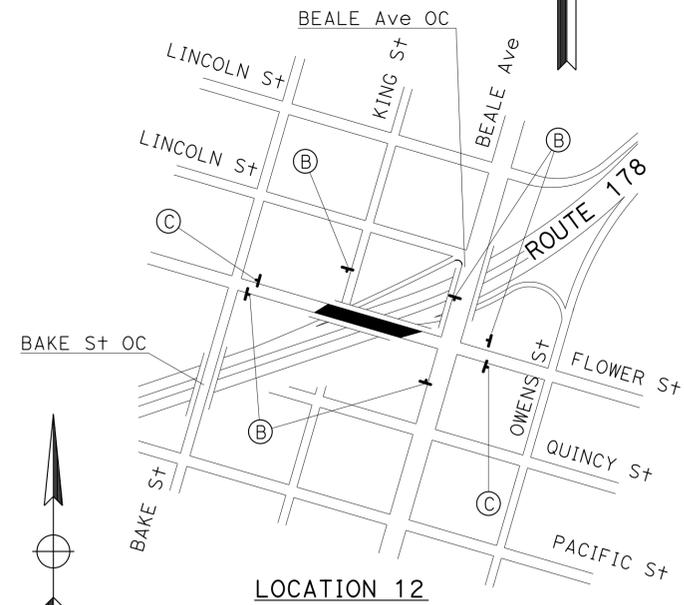
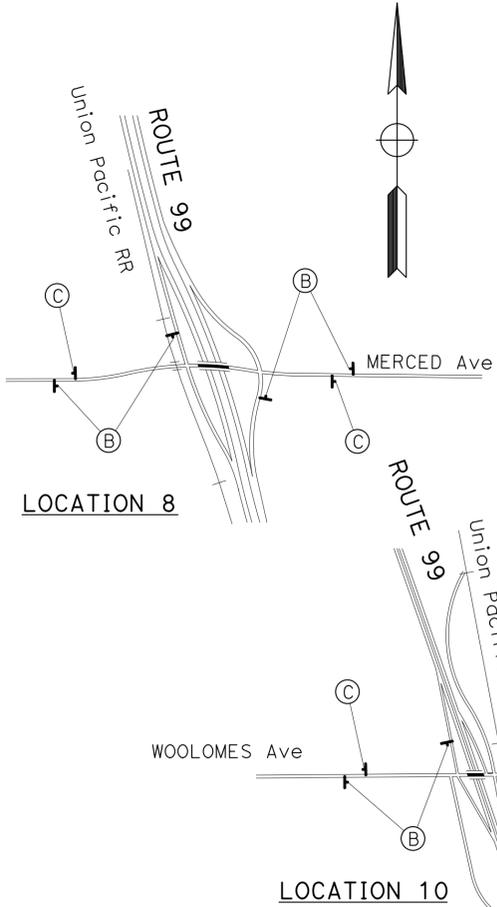
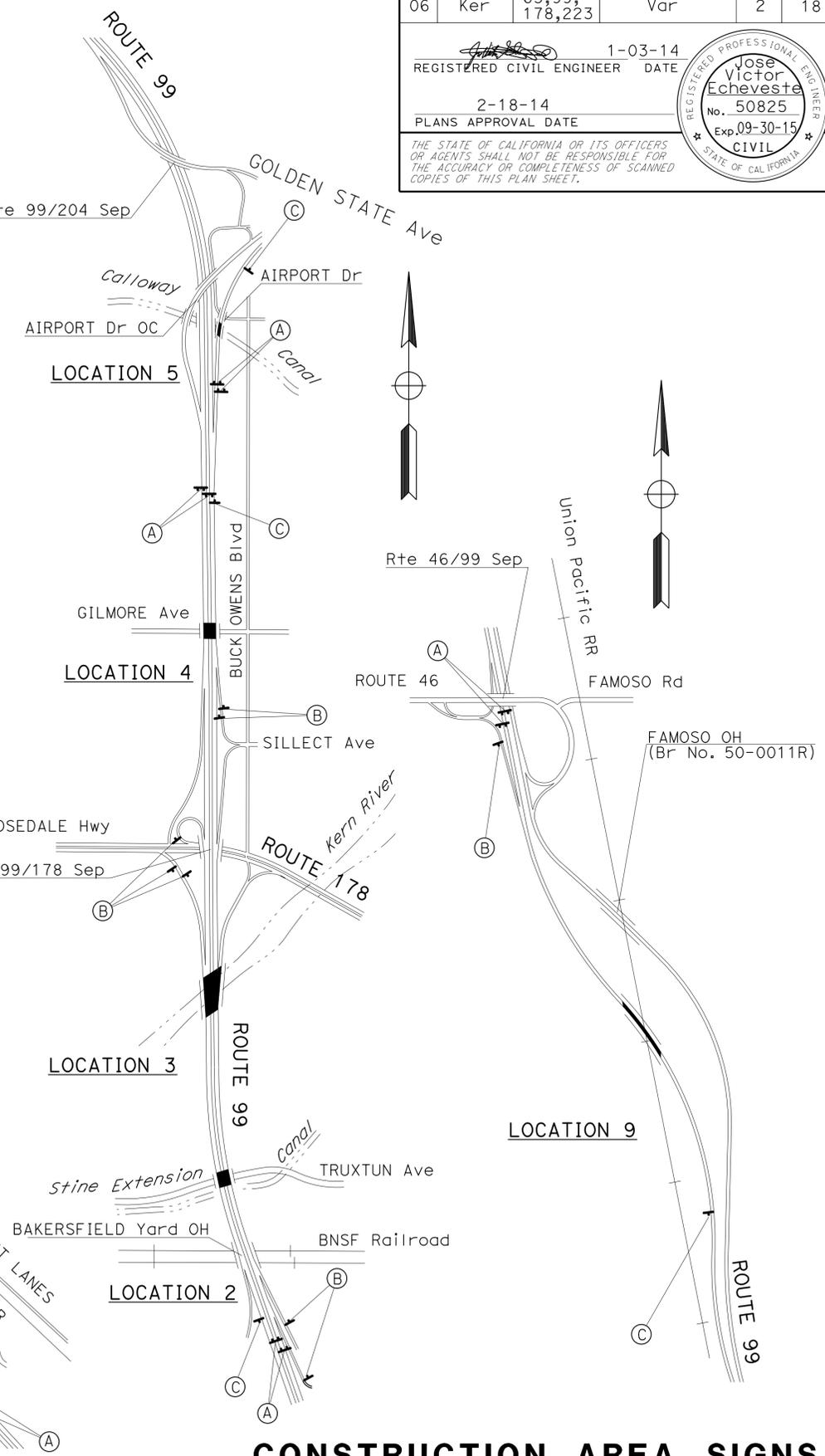
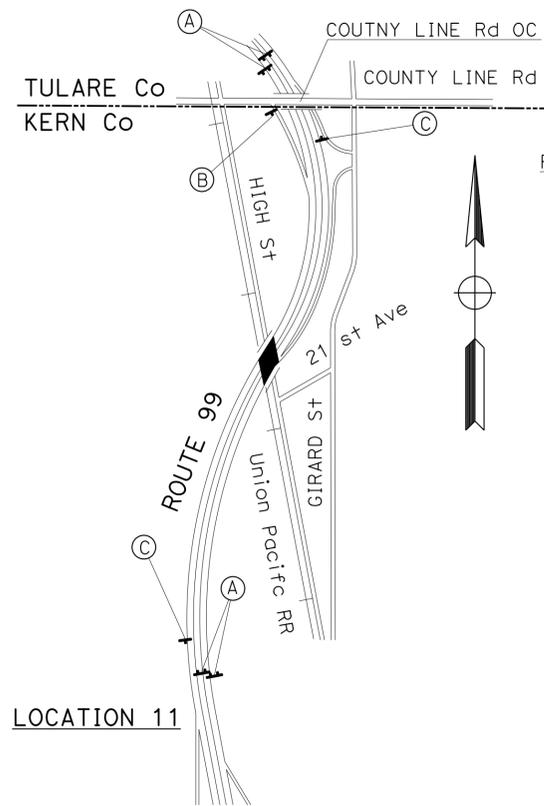
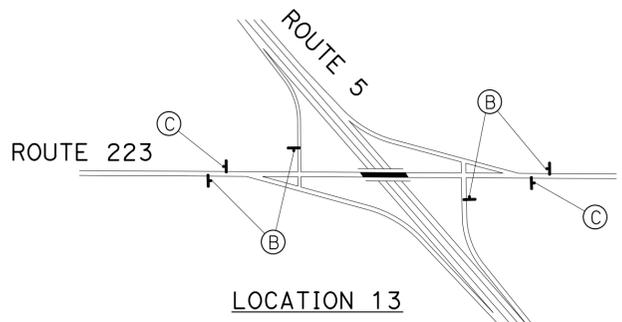
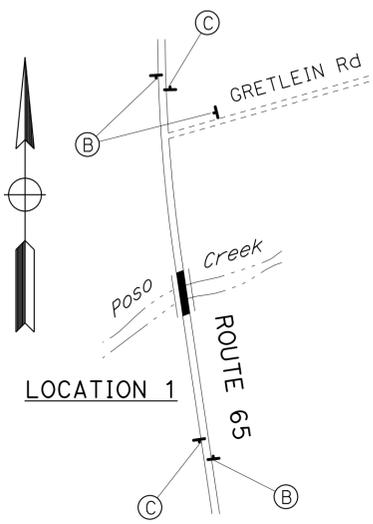
REGISTERED CIVIL ENGINEER	DATE
<i>Victor Echeveste</i>	1-03-14
PLANS APPROVAL DATE	
	2-18-14

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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
(A)	W20-1	48" x 48"	ROAD WORK AHEAD	2 - 6" x 6"	16
(B)	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	29
(C)	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	18

NOTE: EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
 CALCULATED/DESIGNED BY: VICTOR ECHEVESTE
 CHECKED BY: LEE XIANG
 REVISED BY: VICTOR ECHEVESTE
 DATE REVISED:

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	3	18

1-03-14
 REGISTERED CIVIL ENGINEER DATE
 2-18-14
 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.

PAVEMENT DELINEATION QUANTITIES

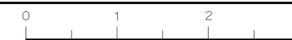
ROUTE	Loc No.	CROSSING	BRIDGE No.	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE				PAVEMENT MARKER			REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE PAVEMENT MARKER (N)	
									RETROREFLECTIVE						
					4" (BROKEN 36-12)	4" (BROKEN 17-7)	4"	8"	TYPE						
					LF	LF	LF	LF	D EA	G EA	H EA				
99	②	TRUXTUN AVENUE UC	50-0268	12	860						19		860		
				25							7		287		
				27B									287		
	③	KERN RIVER	50-0236	12	2684						57		2684		
				25							20		895		
				27B									895		
	④	GILMORE AVENUE UC	50-0262	8		127					31		1434		
				12	780						18		780		
				25							6		260	260	
	⑤	CALLOWAY CANAL	50-0265S	12	309						7		309		
				27							7		618	618	
				27B									309		
	⑥	BEARDSLEY CANAL	50-0050L/R	12	528						12		528		
25										7		264	264		
27B												264			
⑦	OIL JUNCTION OH	50-0034R/L	12	1404						30		1404			
			25							16		702	702		
			27B									702			
⑧	MERCED AVENUE OC	50-0179	21											578	
			12	708						16		708			
			25							8		354	354		
⑨	FAMOSO OH	50-0011L	12											354	
			25									354			
			27B												
⑩	WOOLOMES AVENUE OC	50-0210	22						16					398	
			12	120						1		708			
			27							1		80	354		
⑪	N DELANO OH	50-0214	12											354	
			27									80			
			27B												
223	⑬	RTE 5/223 SEPARATION	50-0298	22										696	
SUBTOTAL					7393	127	8283	717	48	191	72	12,967	5406		
TOTAL					7393	127	8283	717		311		12,967	5406		

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

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
 CALCULATED/DESIGNED BY: LEE XIONG
 CHECKED BY: VICTOR ECHEVESTE
 REVISED BY: []
 DATE REVISED: []



	M	
Maint	MAINTENANCE	
Max	MAXIMUM	
MB	METAL BEAM	
MBB	METAL BEAM BARRIER	
MBGR	METAL BEAM GUARD RAILING	
Med	MEDIAN	
MGS	MIDWEST GUARDRAIL SYSTEM	
MH	MANHOLE	
Min	MINIMUM	
Misc	MISCELLANEOUS	
Misc I & S	MISCELLANEOUS IRON AND STEEL	
Mkr	MARKER	
Mod	MODIFIED, MODIFY	
Mon	MONUMENT	
MP	METAL PLATE	
MPGR	METAL PLATE GUARD RAILING	
MR	MOVEMENT RATING	
MSE	MECHANICALLY STABILIZED EMBANKMENT	
Mt	MOUNTAIN, MOUNT	
MtI	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	N	
N	NORTH	
NB	NORTHBOUND	
No.	NUMBER (MUST HAVE PERIOD)	
Nos.	NUMBERS (MUST HAVE PERIOD)	
NPS	NOMINAL PIPE SIZE	
NS	NEAR SIDE	
NSP	NEW STANDARD PLAN	
NTS	NOT TO SCALE	
	O	
Obir	OBLITERATE	
OC	OVERCROSSING	
OD	OUTSIDE DIAMETER	
OF	OUTSIDE FACE	
OG	ORIGINAL GROUND	
OGAC	OPEN GRADED ASPHALT CONCRETE	
OGFC	OPEN GRADED FRICTION COURSE	
OH	OVERHEAD	
OHWM	ORDINARY HIGH WATER MARK	
O-O	OUT TO OUT	
Opp	OPPOSITE	
OSD	OVERSIDE DRAIN	
	P	
p	PAGE	
PAP	PERFORATED ALUMINUM PIPE	
PB	PULL BOX	
PC	POINT OF CURVATURE, PRECAST	
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN	
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE	
PCVC	POINT OF COMPOUND VERTICAL CURVE	
PEC	PERMIT TO ENTER AND CONSTRUCT	
Ped	PEDESTRIAN	
Ped OC	PEDESTRIAN OVERCROSSING	
Ped UC	PEDESTRIAN UNDERCROSSING	
Perm MtI	PERMEABLE MATERIAL	

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	Q	
Qty	QUANTITY	
	R	
R	RADIUS	
R & D	REMOVE AND DISPOSE	
R & S	REMOVE AND SALVAGE	
R/C	RATE OF CHANGE	
RCA	REINFORCED CONCRETE ARCH	
RCB	REINFORCED CONCRETE BOX	
RCP	REINFORCED CONCRETE PIPE	
RCPA	REINFORCED CONCRETE PIPE ARCH	
Rd	ROAD	
Reinf	REINFORCED, REINFORCEMENT, REINFORCING	
Rel	RELOCATE	
Repl	REPLACEMENT	
Ret	RETAINING	
Rev	REVISED, REVISION	
Rdwy	ROADWAY	
RHMA	RUBBERIZED HOT MIX ASPHALT	
Riv	RIVER	
RM	ROAD-MIXED	
RP	RADIUS POINT, REFERENCE POINT	
RR	RAILROAD	
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN	
Rt	RIGHT	
Rte	ROUTE	
RW	REDWOOD, RETAINING WALL	
R/W	RIGHT OF WAY	
Rwy	RAILWAY	

	S	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
±	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
TeI	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

	T continued	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	
	U	
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	
	V	
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	
	W	
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
WWLOL	WINGWALL LAYOUT LINE	
	X	
X Sec	CROSS SECTION	
Xing	CROSSING	
	Y	
Yr	YEAR	
Yrs	YEARS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	4	18

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 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.

TO ACCOMPANY PLANS DATED 2-18-14

UNIT OF MEASUREMENT SYMBOLS:

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

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:

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
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

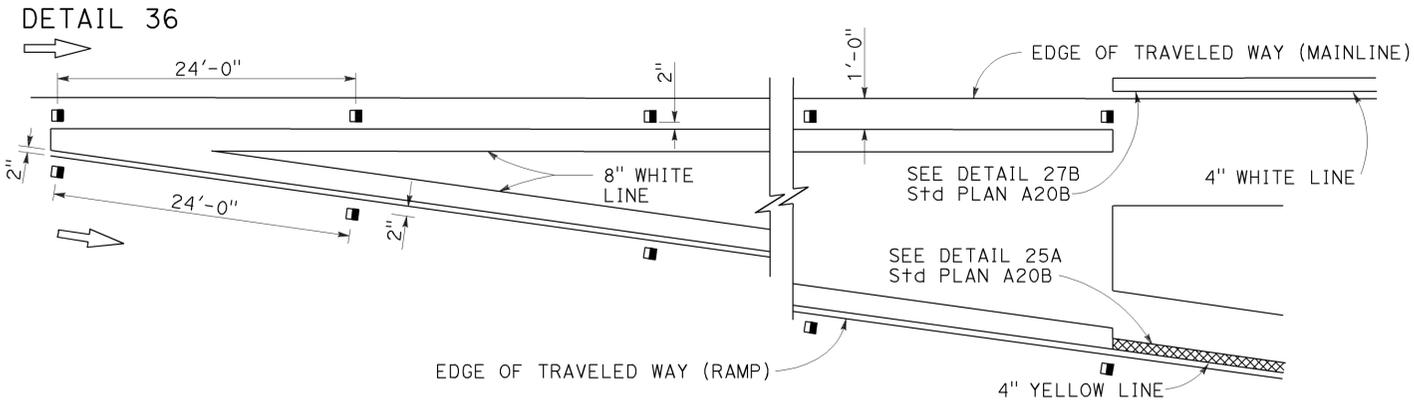
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	5	18

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

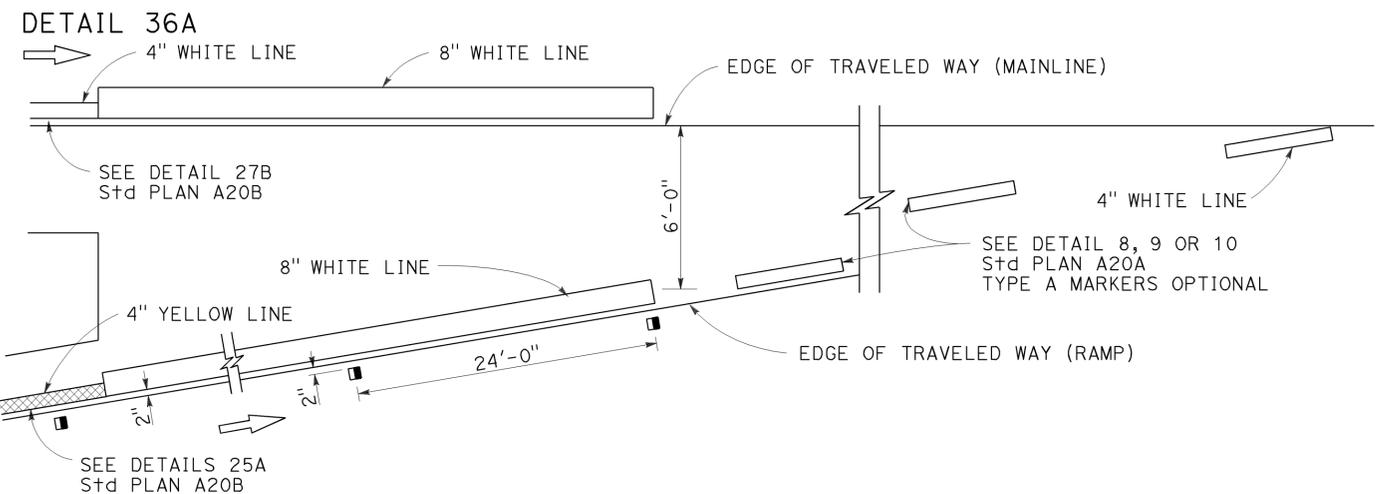
July 19, 2013
 PLANS APPROVAL DATE

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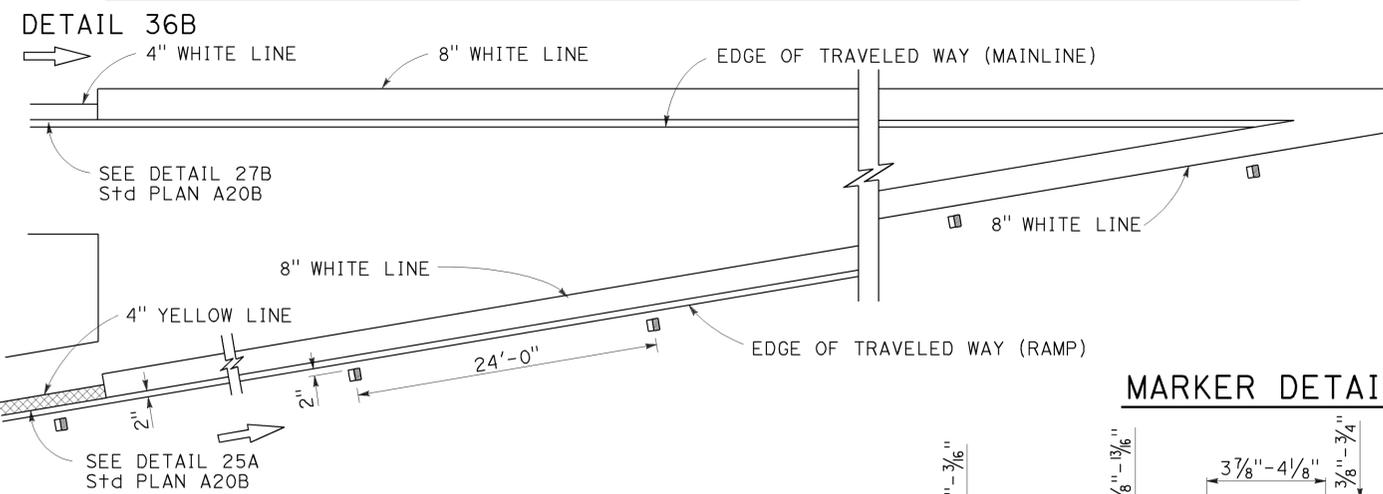
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

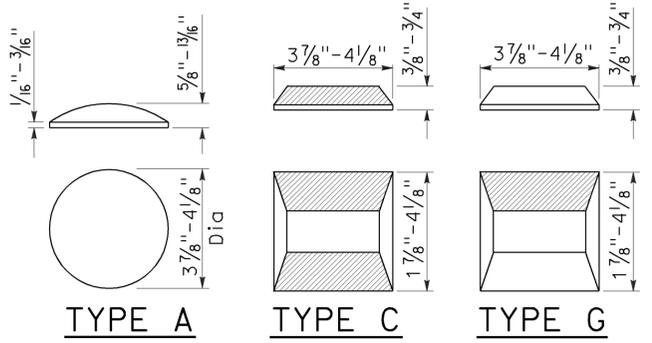


ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

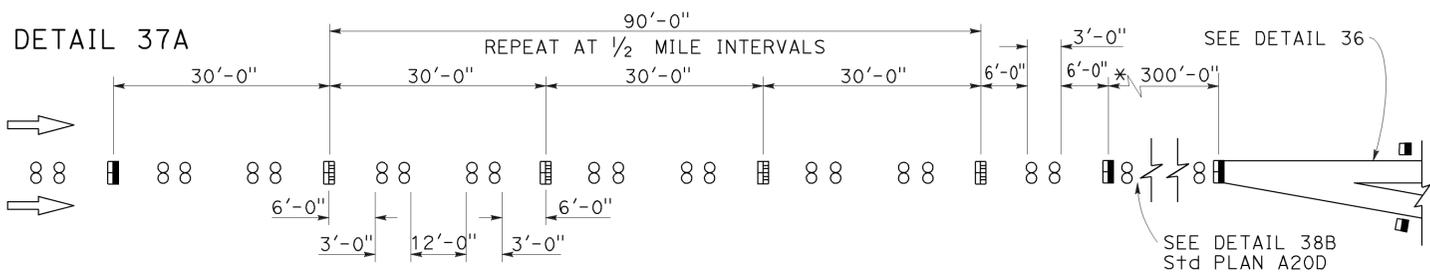
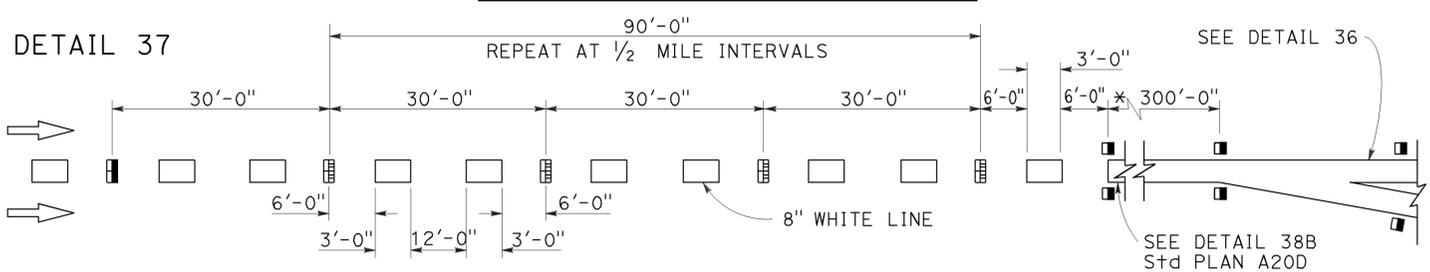


MARKER DETAILS

- LEGEND:**
- MARKERS
- TYPE A WHITE NON-REFLECTIVE
 - ◻ TYPE C RED-CLEAR RETROREFLECTIVE
 - TYPE G ONE-WAY CLEAR RETROREFLECTIVE

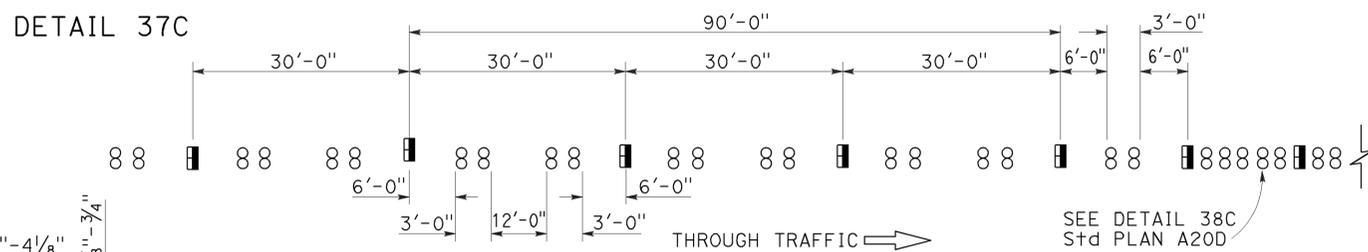
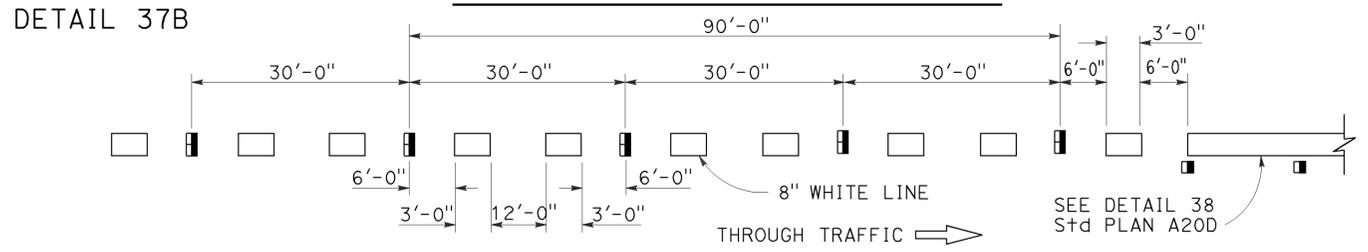


LANE DROP AT EXIT RAMPS



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

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

TO ACCOMPANY PLANS DATED 2-18-14

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
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.

2010 REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	7	18

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

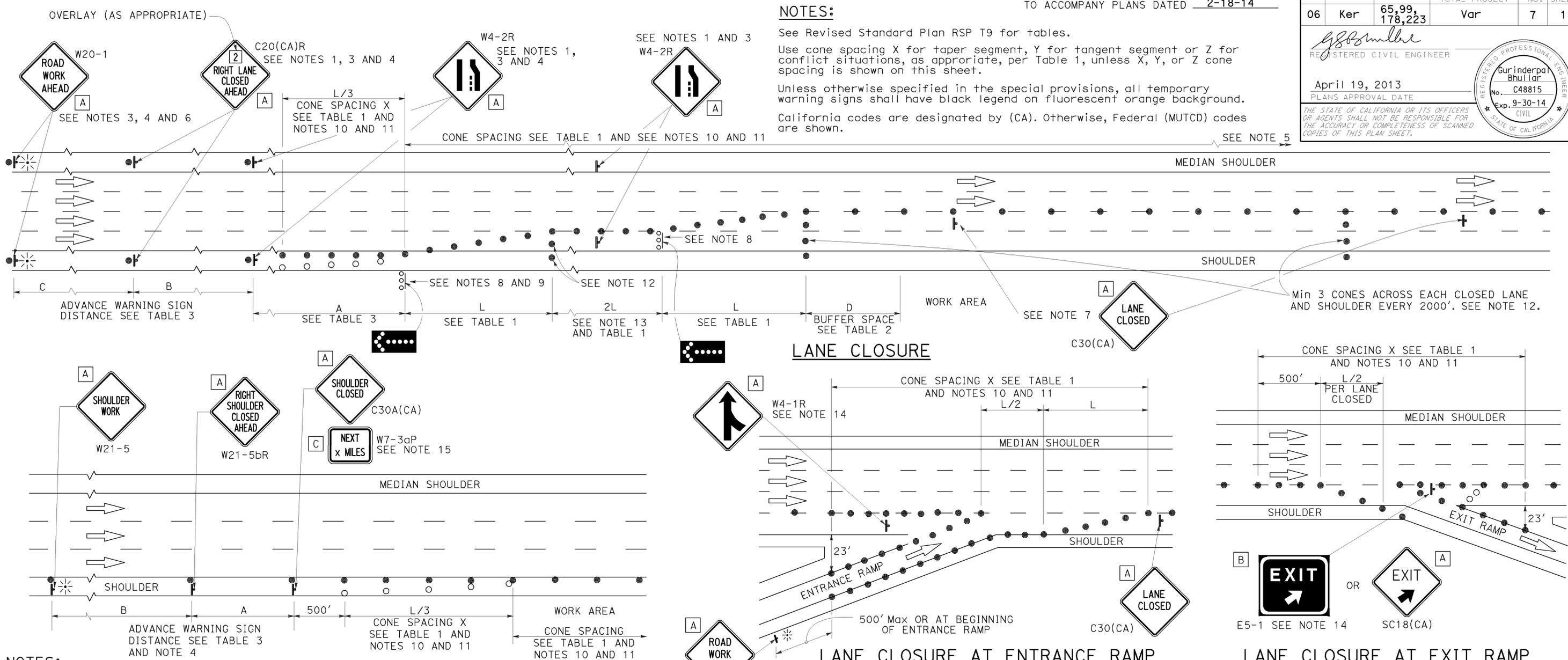
April 19, 2013
 PLANS APPROVAL DATE

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.

TO ACCOMPANY PLANS DATED 2-18-14

NOTES:

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



NOTES:

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

SHOULDER CLOSURE

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

LANE CLOSURE AT ENTRANCE RAMP

- 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.
- 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.
- Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
- A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 72" x 60"
- C 36" x 30"

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

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

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

NOTES:

See Revised Standard Plan RSP T9 for tables.

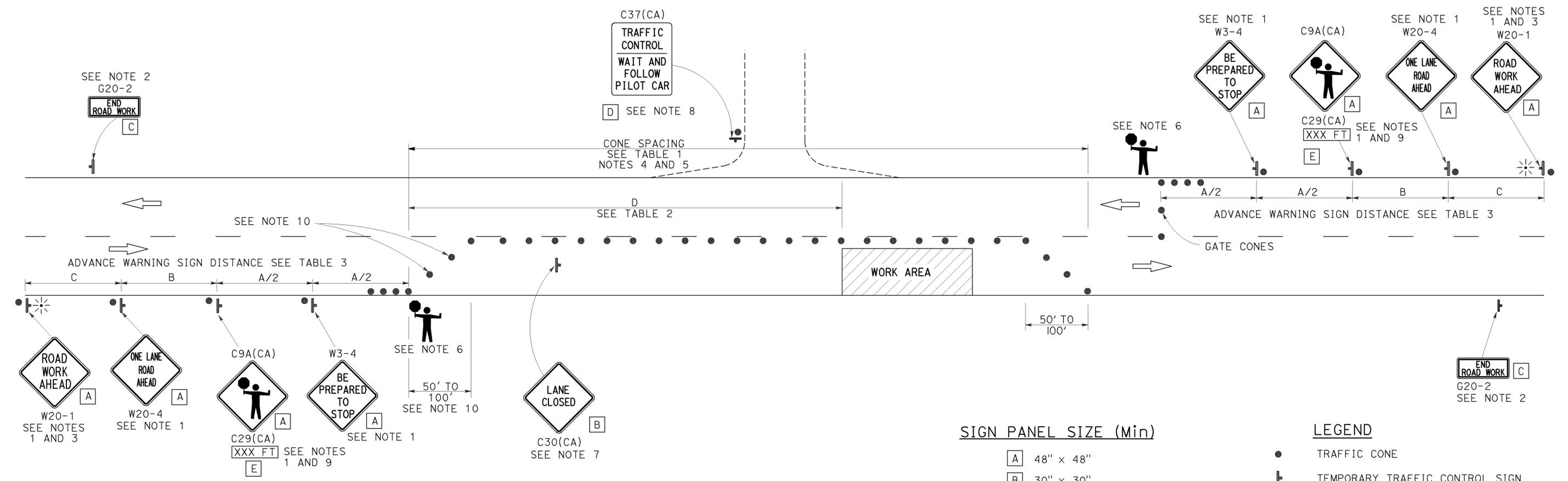
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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 2-18-14



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.

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 APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

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
06	Ker	65,99, 178,223	Var	9	18

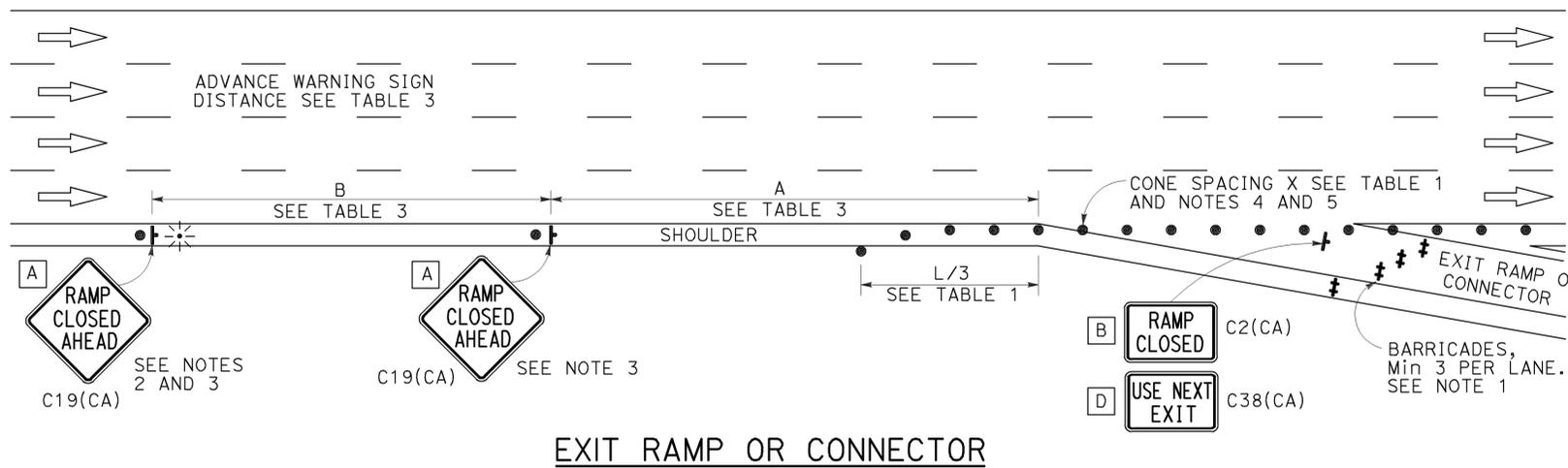
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

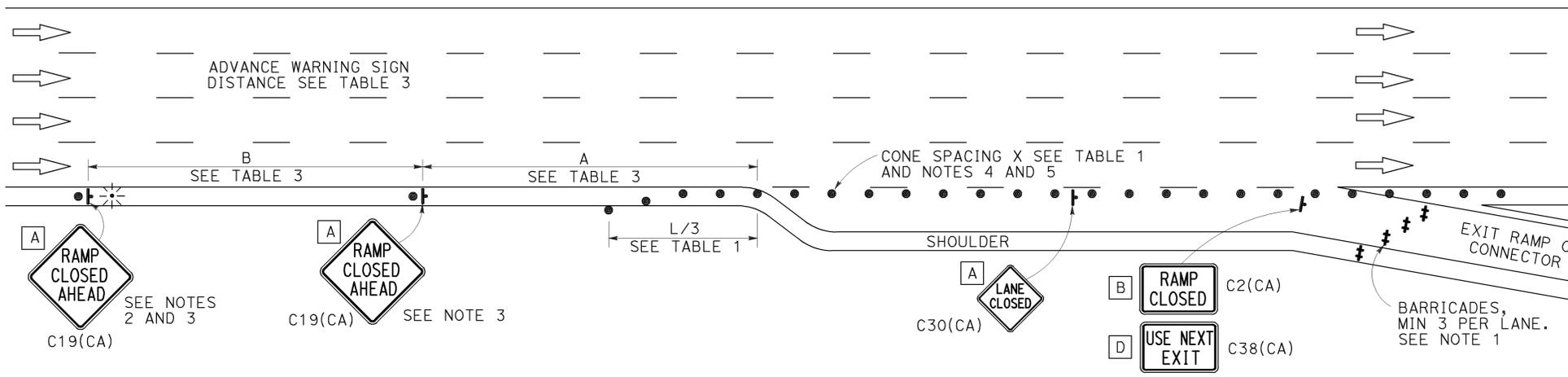
TO ACCOMPANY PLANS DATED 2-18-14

NOTES:

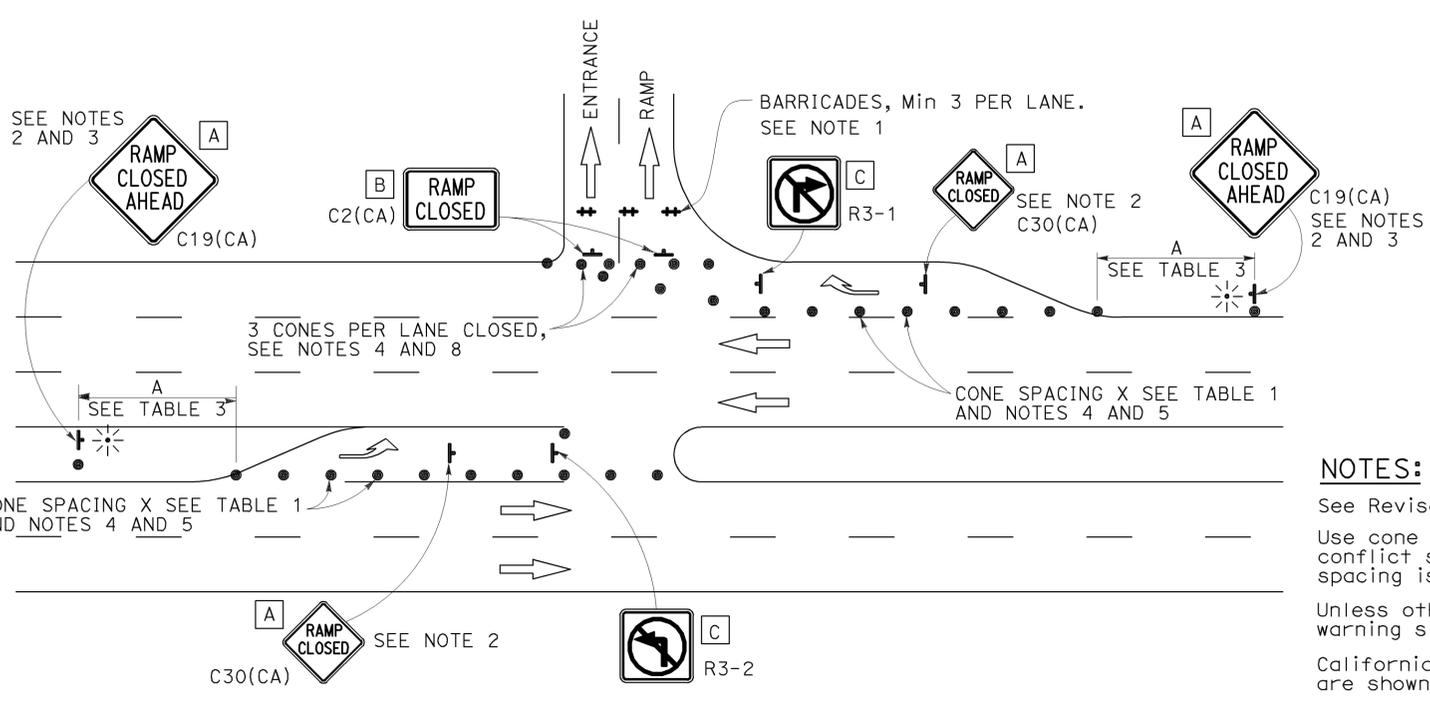
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



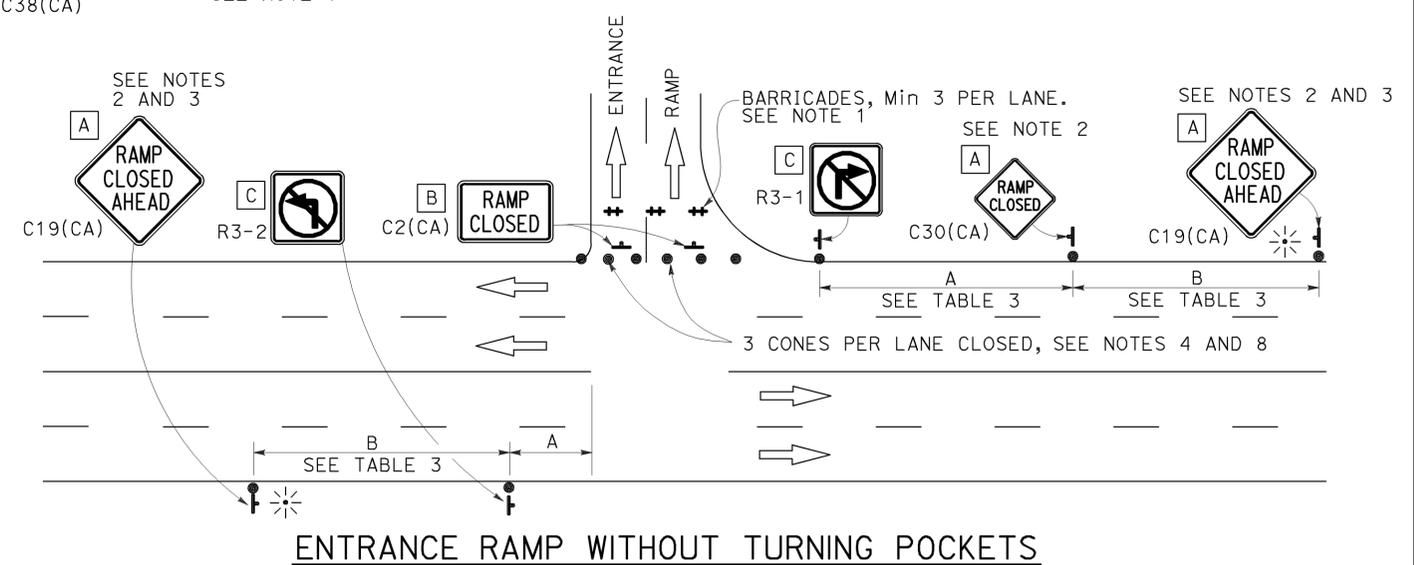
EXIT RAMP OR CONNECTOR



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.

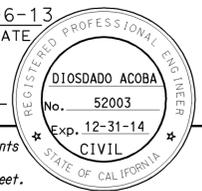
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

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

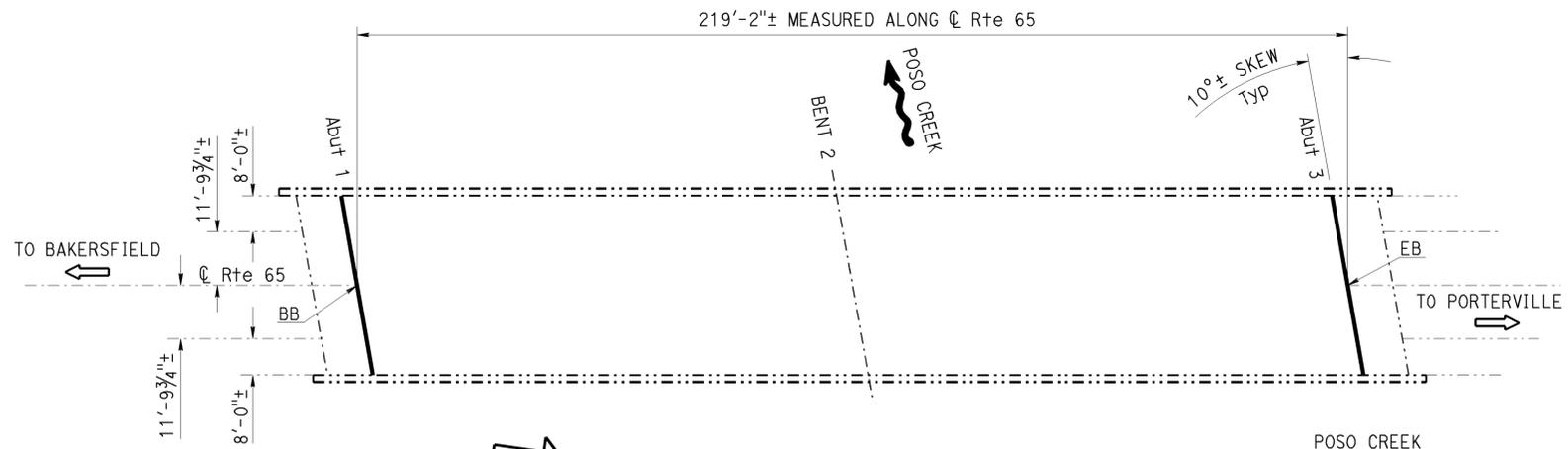
REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	10	18
REGISTERED CIVIL ENGINEER			DATE	11-6-13	
PLANS APPROVAL DATE			2-18-14		
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.					



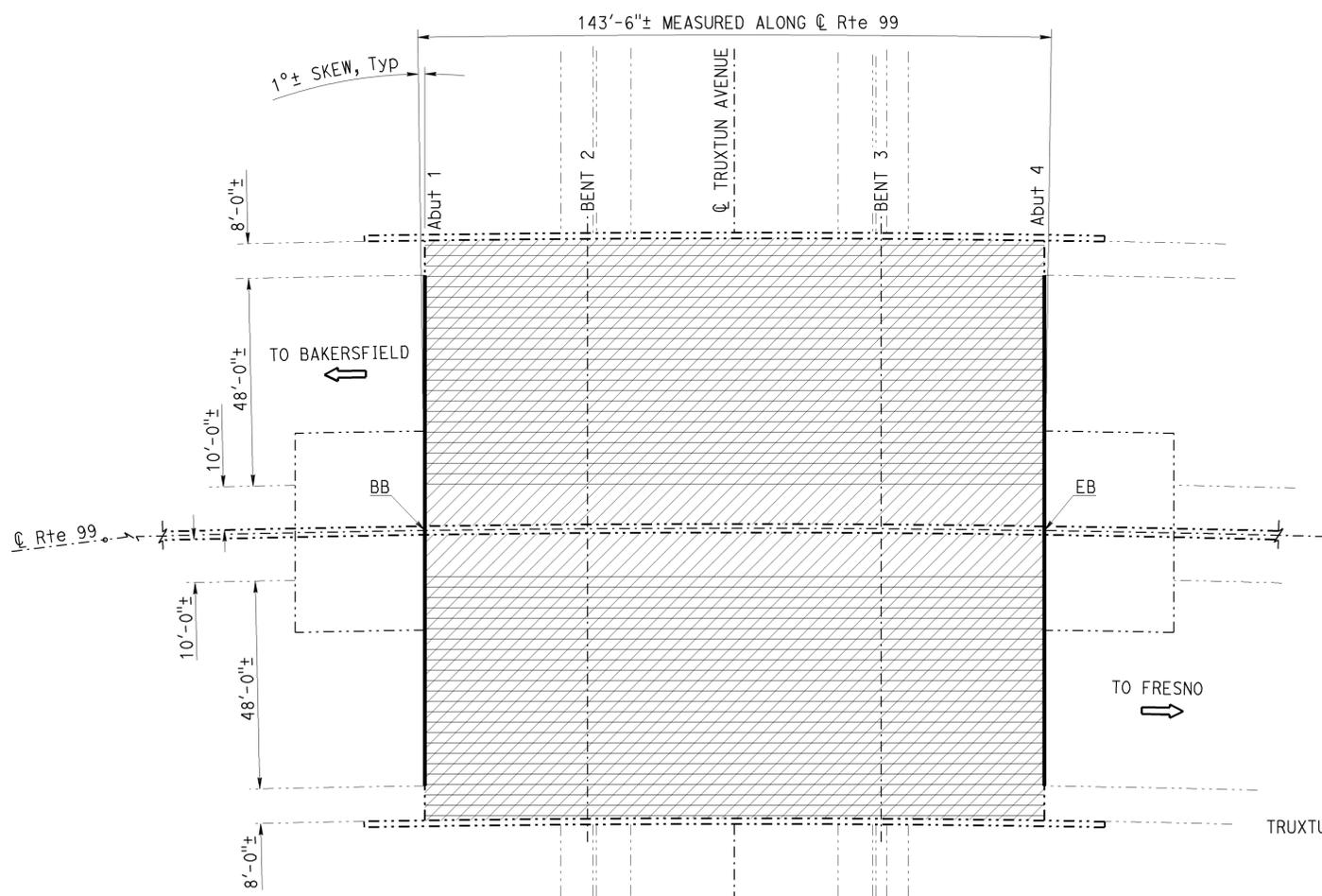
NOTE: (APPLY TO ALL SHEETS)
 ----- Indicates existing.



POSO CREEK
 Br. No. 50-0500, ROUTE 65, Ker, PM 8.29
 1" = 20'

QUANTITIES
 CLEAN EXPANSION JOINT 82 LF
 JOINT SEAL (MR 1") 82 LF

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.
 - Indicates limits of remove existing 1/2"± chip seal overlay.
 - Indicates location of existing joint seal removal and placement of new joint seal.



TRUXTUN AVENUE UNDERCROSSING
 Br. No. 50-0268, ROUTE 99, Ker, PM 24.99
 1" = 20'

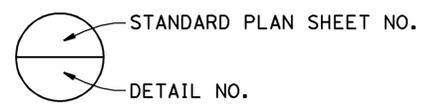
QUANTITIES
 PUBLIC SAFETY PLAN LUMP SUM
 PREPARE CONCRETE BRIDGE DECK SURFACE 18,942 SQFT
 TREAT BRIDGE DECK 18,942 SQFT
 FURNISH BRIDGE DECK TREATMENT MATERIAL 211 GAL
 REMOVE CHIP SEAL 16,072 SQFT
 CLEAN EXPANSION JOINT 232 LF
 JOINT SEAL (MR 1") 232 LF

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	JOINT SEAL DETAILS
9	STRUCTURE APPROACH TYPE R(30S)

STANDARD PLANS 2010

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



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

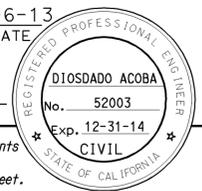
M. Hashimoto
 DESIGN ENGINEER 11-6-13

DESIGN	BY M. Hashimoto	CHECKED D. Acoba	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED D. Acoba	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED D. Acoba	SPECIFICATIONS	BY Jarvis Mahe

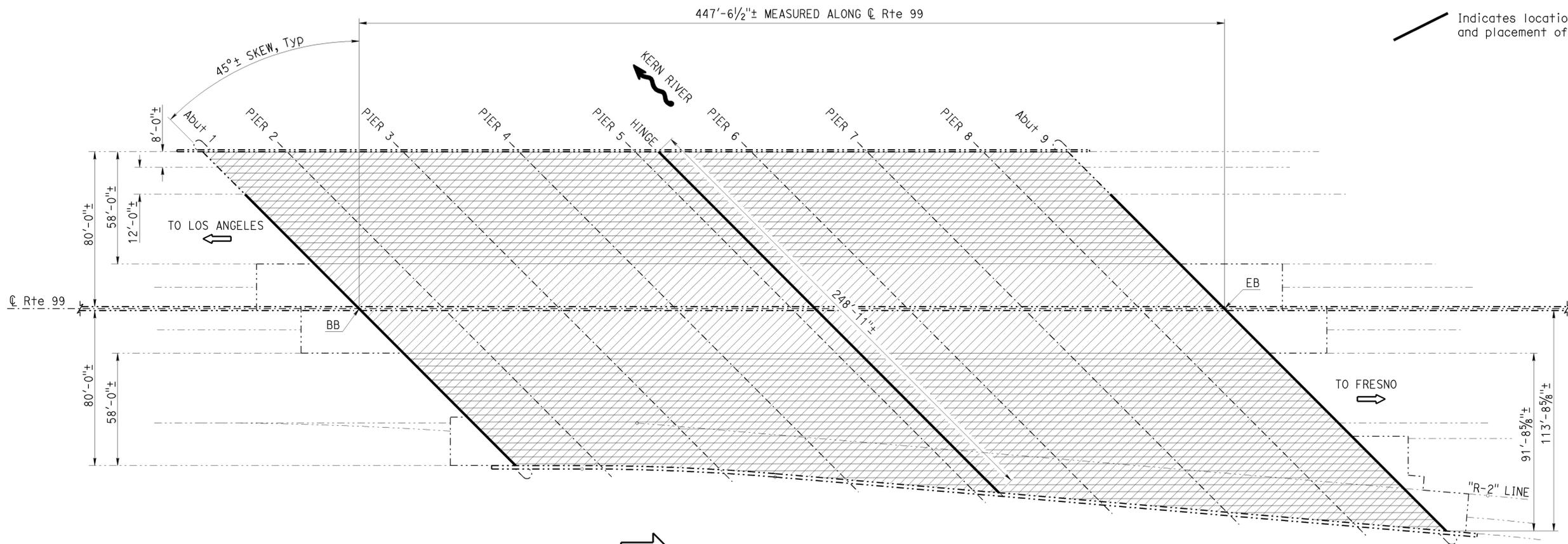
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIOUS
ROUTE 65, 99, 178, 223 BRIDGES
GENERAL PLAN NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	11	18
REGISTERED CIVIL ENGINEER			DATE	11-6-13	
PLANS APPROVAL DATE			2-18-14		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.
 - Indicates limits of remove existing 1/2"± chip seal overlay.
 - Indicates location of existing joint seal removal and placement of new joint seal.



KERN RIVER
 Br. No. 50-0236, ROUTE 99, Ker, PM 25.35
 1" = 30'

KERN RIVER BRIDGE NO 50-0236

QUANTITIES

	LUMP	SUM
PUBLIC SAFETY PLAN		
PREPARE CONCRETE BRIDGE DECK SURFACE	78,868	SQFT
TREAT BRIDGE DECK	78,868	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	876	GAL
REMOVE CHIP SEAL	59,176	SQFT
CLEAN EXPANSION JOINT	697	LF
JOINT SEAL (MR 1/2")	446	LF
JOINT SEAL (MR 2 1/2")	251	LF

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

Martin Lee 11-6-13
 DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED D. Acoba	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED D. Acoba	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED D. Acoba	SPECIFICATIONS	BY Jarvis Mahe

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

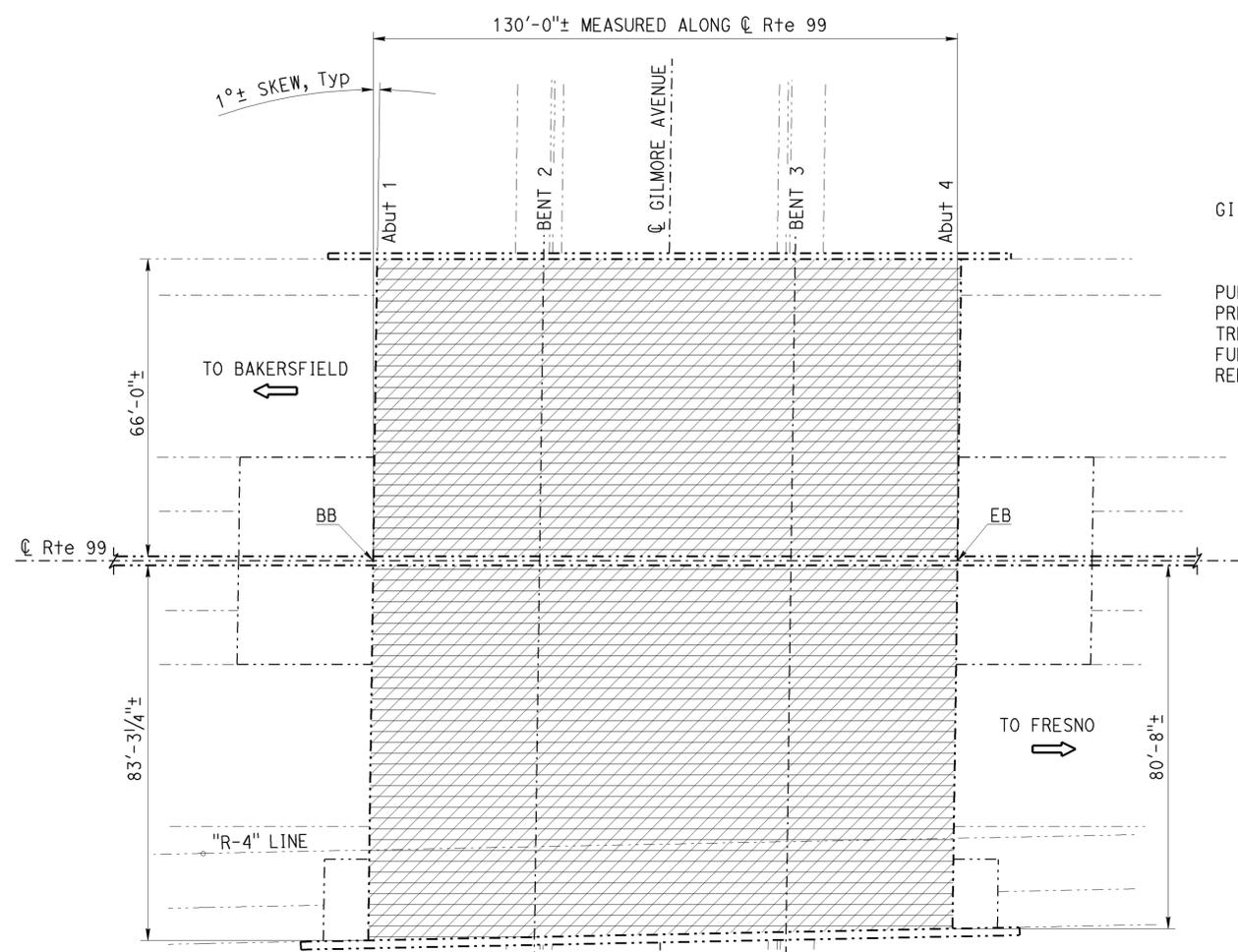
DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES

ROUTE 65, 99, 178, 223 BRIDGES
GENERAL PLAN NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	12	18

REGISTERED CIVIL ENGINEER: *[Signature]*
 DATE: 11-6-13
 PLANS APPROVAL DATE: 2-18-14
 REGISTERED PROFESSIONAL ENGINEER: DIOSDADO ACOBA
 No. 52003
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



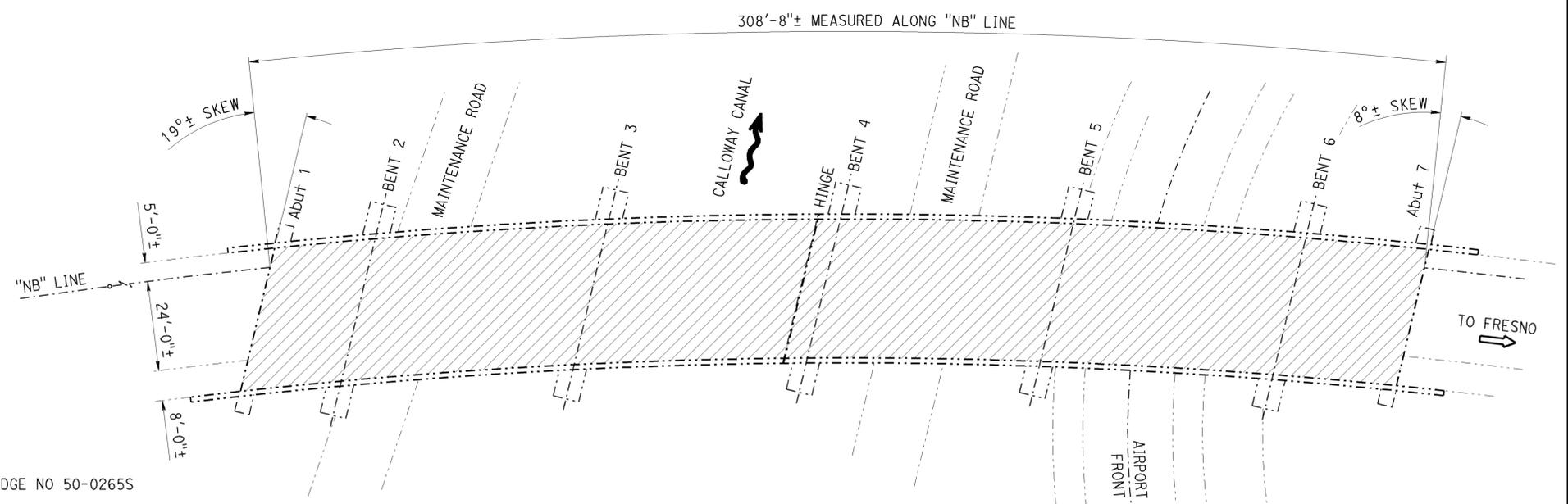
GILMORE AVENUE UC BRIDGE NO 50-0262

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	19,236 SQFT
TREAT BRIDGE DECK	19,236 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	214 GAL
REMOVE CHIP SEAL	19,236 SQFT

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.
 - Indicates limits of remove existing 1/2"± chip seal overlay.

GILMORE AVENUE UNDERCROSSING
 Br. No. 50-0262, ROUTE 99, Ker, PM 26.08
 1" = 20'



CALLOWAY CANAL BRIDGE NO 50-0265S

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	11,560 SQFT
TREAT BRIDGE DECK	11,560 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	128 GAL

CALLOWAY CANAL
 Br. No. 50-0265S, ROUTE 99, Ker, PM 26.70
 1" = 20'

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

[Signature] 11-6-13
 DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED D. Acoba	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED D. Acoba	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED D. Acoba	SPECIFICATIONS	BY Jarvis Mahe

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES
ROUTE 65, 99, 178, 223 BRIDGES
GENERAL PLAN NO. 3

USERNAME => s124428 DATE PLOTTED => 29-JAN-2014 TIME PLOTTED => 08:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	13	18

REGISTERED CIVIL ENGINEER DATE 11-6-13

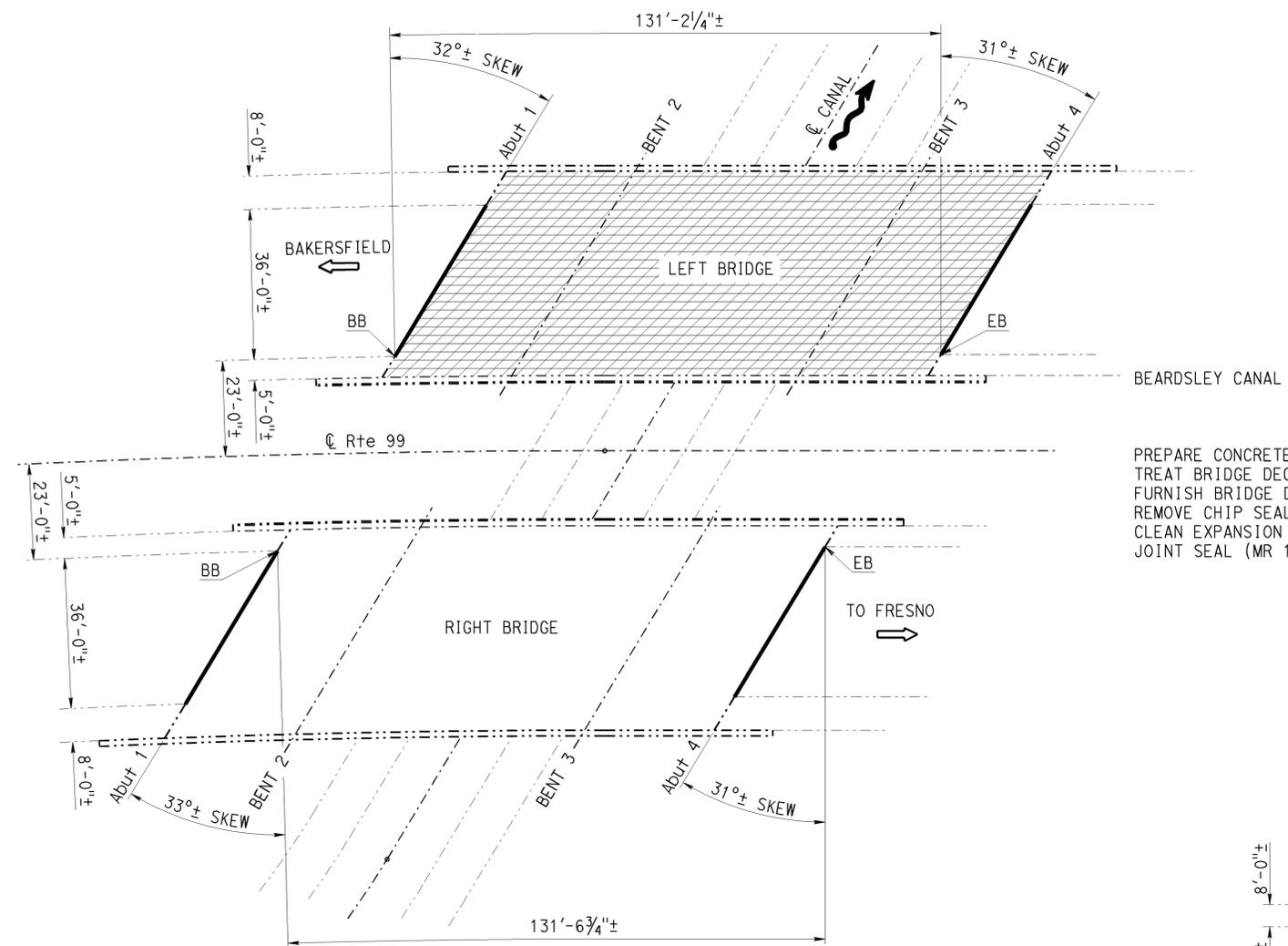
PLANS APPROVAL DATE 2-18-14

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No. 52003
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates limits of remove existing 1/2"± chip seal overlay.
- Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.
- Indicates location of existing joint seal removal and placement of new joint seal.

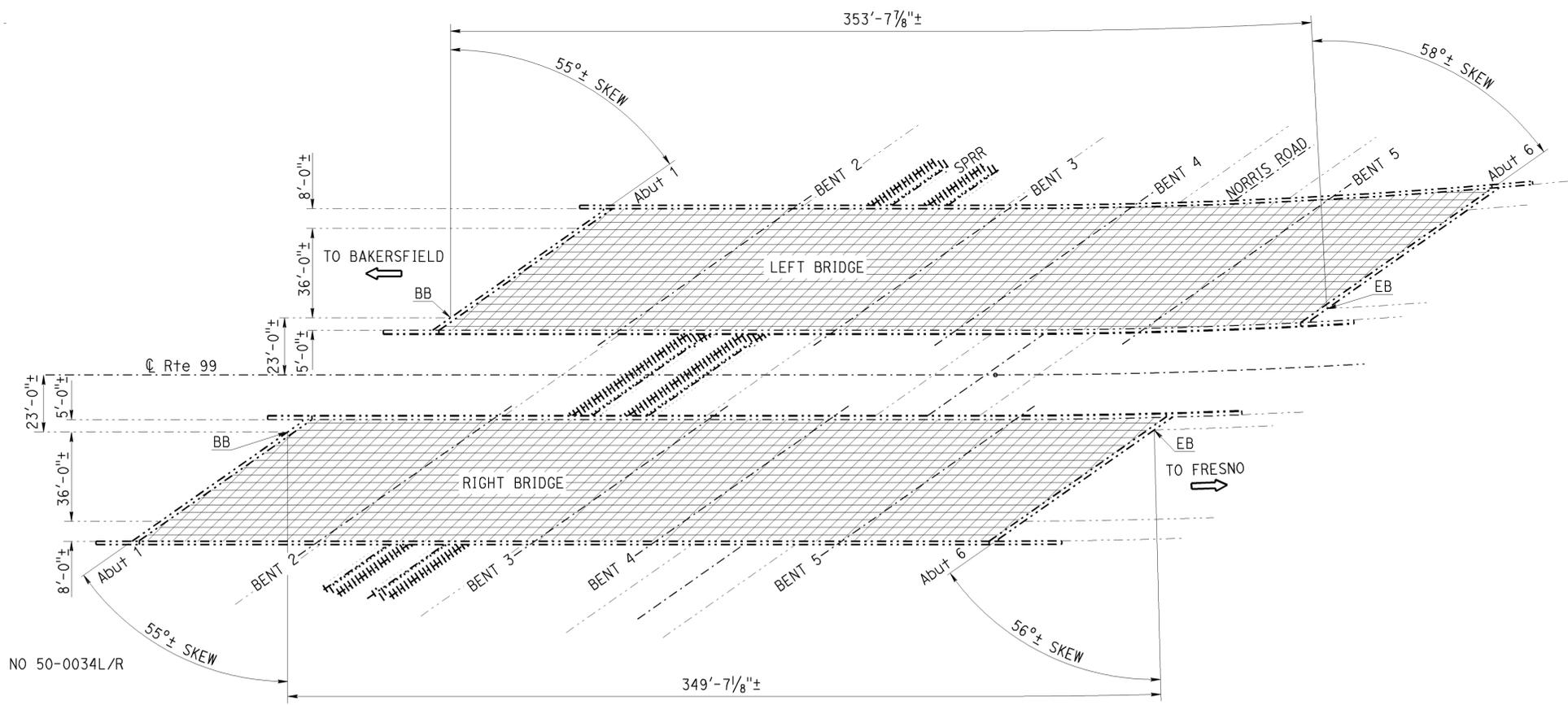


BRIDGE NO 50-0050L/R

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	6,457	SQFT
TREAT BRIDGE DECK	6,457	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	72	GAL
REMOVE CHIP SEAL	6,457	SQFT
CLEAN EXPANSION JOINT	169	LF
JOINT SEAL (MR 1/2")	169	LF

BEARDSLEY CANAL
Br. No. 50-0050L/R, ROUTE 99, Ker, PM R28.39
1" = 20'



OIL JUNCTION OVERHEAD BRIDGE NO 50-0034L/R

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	34,187	SQFT
TREAT BRIDGE DECK	34,187	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	380	GAL
REMOVE CHIP SEAL	34,187	SQFT

OIL JUNCTION OVERHEAD
Br. No. 50-0034L/R, ROUTE 99, Ker, PM R28.56
1" = 30'

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

Matthew Lee 11-6-13
DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED D. Acoba	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED D. Acoba	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED D. Acoba	SPECIFICATIONS	BY Jarvis Mahe

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTE 65, 99, 178, 223 BRIDGES
GENERAL PLAN NO. 4

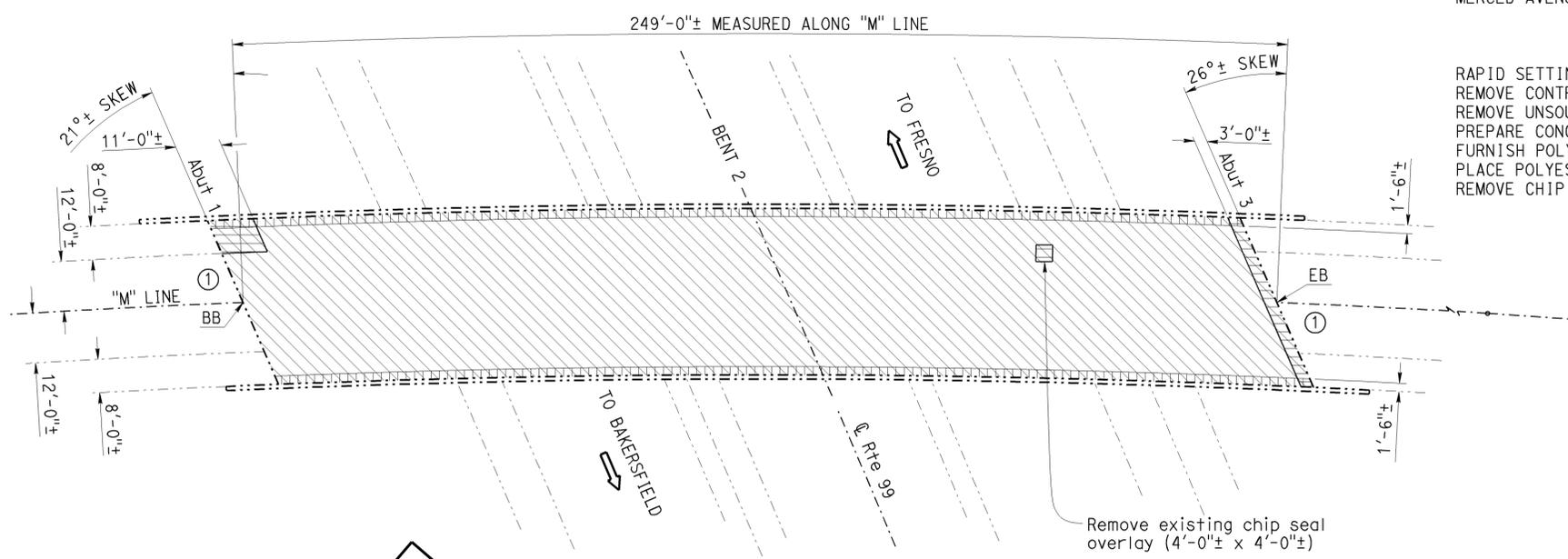
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	14	18

REGISTERED CIVIL ENGINEER DATE 11-6-13
 REGISTERED PROFESSIONAL ENGINEER
 DIOSDADO ACOPA
 No. 52003
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE 2-18-14

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.

MERCED AVENUE OVERCROSSING BRIDGE NO 50-0179

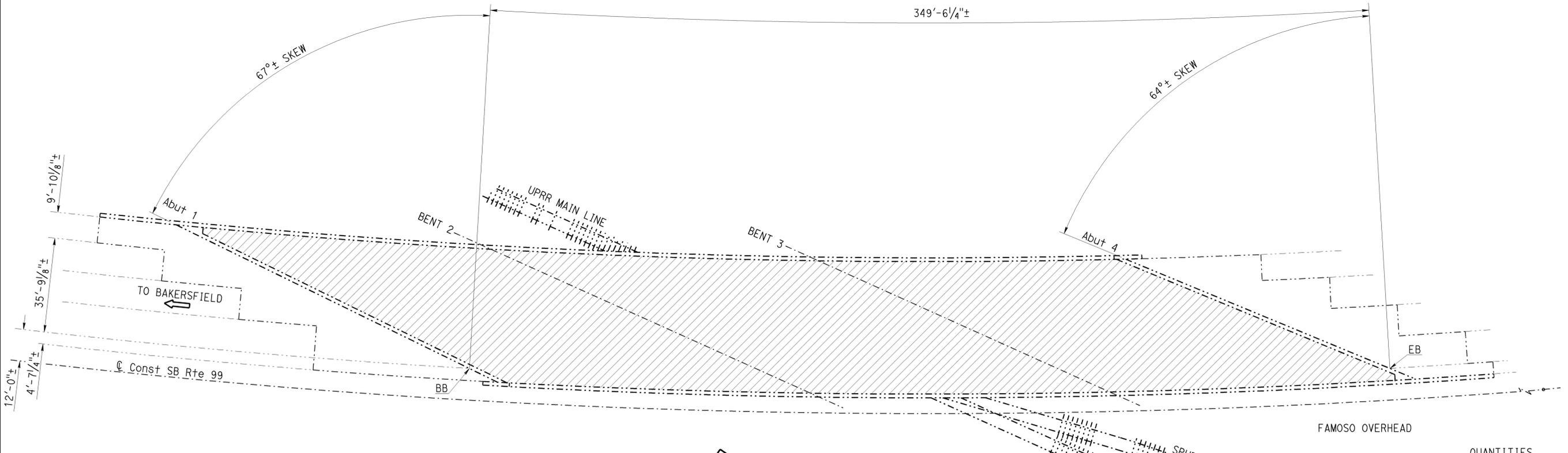


QUANTITIES

RAPID SETTING CONCRETE (PATCH)	25	CF
REMOVE CONTRAST TREATMENT	747	SQFT
REMOVE UNSOUND CONCRETE	25	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	9,877	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	741	CF
PLACE POLYESTER CONCRETE OVERLAY	9,877	SQFT
REMOVE CHIP SEAL	238	SQFT

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "Deck Repair Detail - Overlay" on "JOINT SEAL DETAILS" sheet.
 - Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.
 - Indicates remove existing contrast treatment.
 - Indicates limits of remove existing 1/2"± chip seal overlay.
 - ① Indicates location of AC roadway taper. See "Road Plans".

MERCED AVENUE OVERCROSSING
 Br. No. 50-0179, ROUTE 99, Ker, PM R39.12
 1" = 20'



FAMOSO OVERHEAD
 Br. No. 50-0011L, ROUTE 99, Ker, PM R43.42
 1" = 20'

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM	
PREPARE CONCRETE BRIDGE DECK SURFACE	17,161	SQFT
TREAT BRIDGE DECK	17,161	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	191	GAL

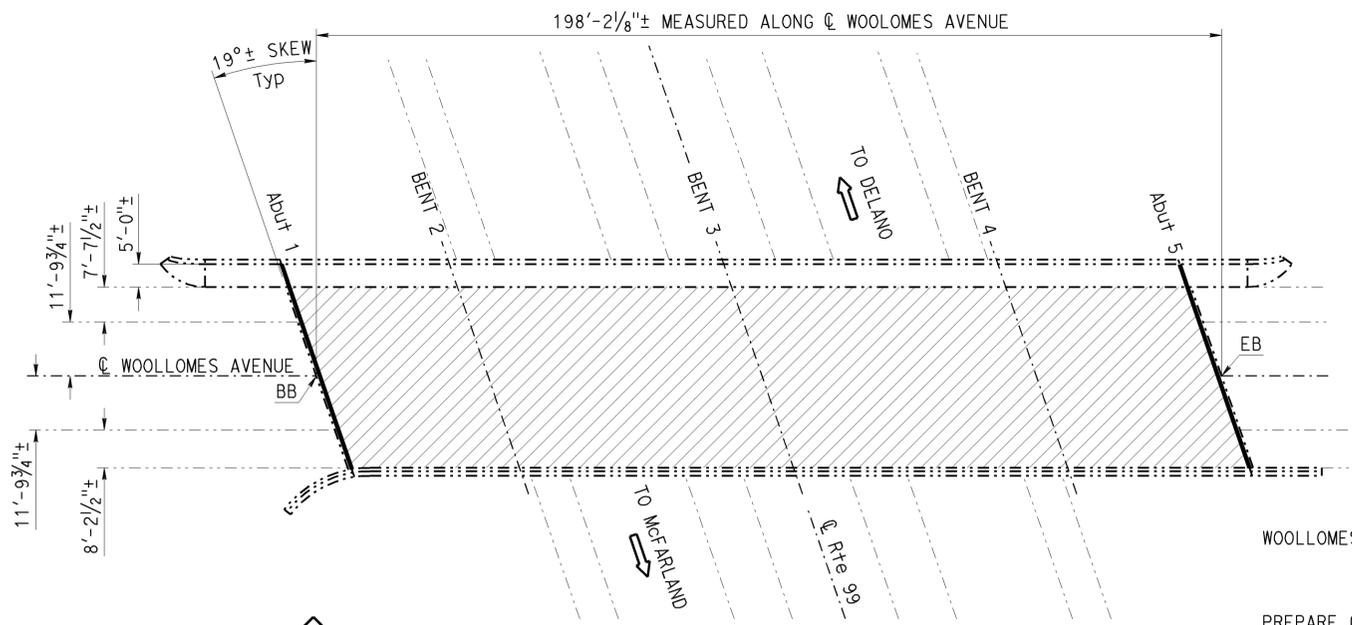
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY M. Hashimoto	CHECKED D. Acoba	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED D. Acoba	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED D. Acoba	SPECIFICATIONS	BY Jarvis Mahe

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

BRIDGE NO. VARIOUS
 POST MILE VARIES
ROUTE 65, 99, 178, 223 BRIDGES
GENERAL PLAN NO. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	15	18
REGISTERED CIVIL ENGINEER			DATE	11-6-13	
PLANS APPROVAL DATE			2-18-14		
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.					



WOOLLOMES AVENUE OVERCROSSING

Br. No. 50-0210, ROUTE 99, Ker, PM 54.48
1" = 20'

WOOLLOMES AVENUE OVERCROSSING BRIDGE NO 50-02010

QUANTITIES

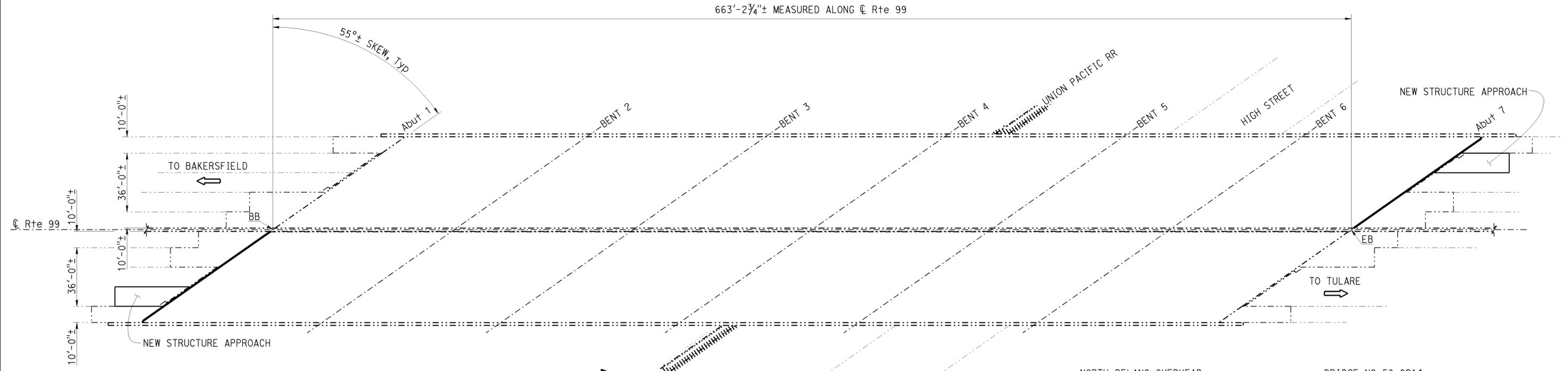
PREPARE CONCRETE BRIDGE DECK SURFACE	7,820	SQFT
TREAT BRIDGE DECK	7,820	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	87	GAL
CLEAN EXPANSION JOINT	96	LF
JOINT SEAL (MR 1")	96	LF

NOTES: (APPLY TO THIS SHEET ONLY)

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

Indicates location of existing joint seal removal and placement of new joint seal.

- For New Structure Approach details, see "STRUCTURE APPROACH TYPE R(30S)" sheet.



NORTH DELANO OVERHEAD

Br. No. 50-0214, ROUTE 99, Ker, PM 57.10
1" = 30'

NORTH DELANO OVERHEAD BRIDGE NO 50-0214

QUANTITIES

AGGREGATE BASE (APPROACH SLAB)	4	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	40	CY
CLEAN EXPANSION JOINT	156	LF
JOINT SEAL (MR 1/2")	99	LF
JOINT SEAL (MR 1")	99	LF

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

Matthew Lee 11-6-13
DESIGN ENGINEER

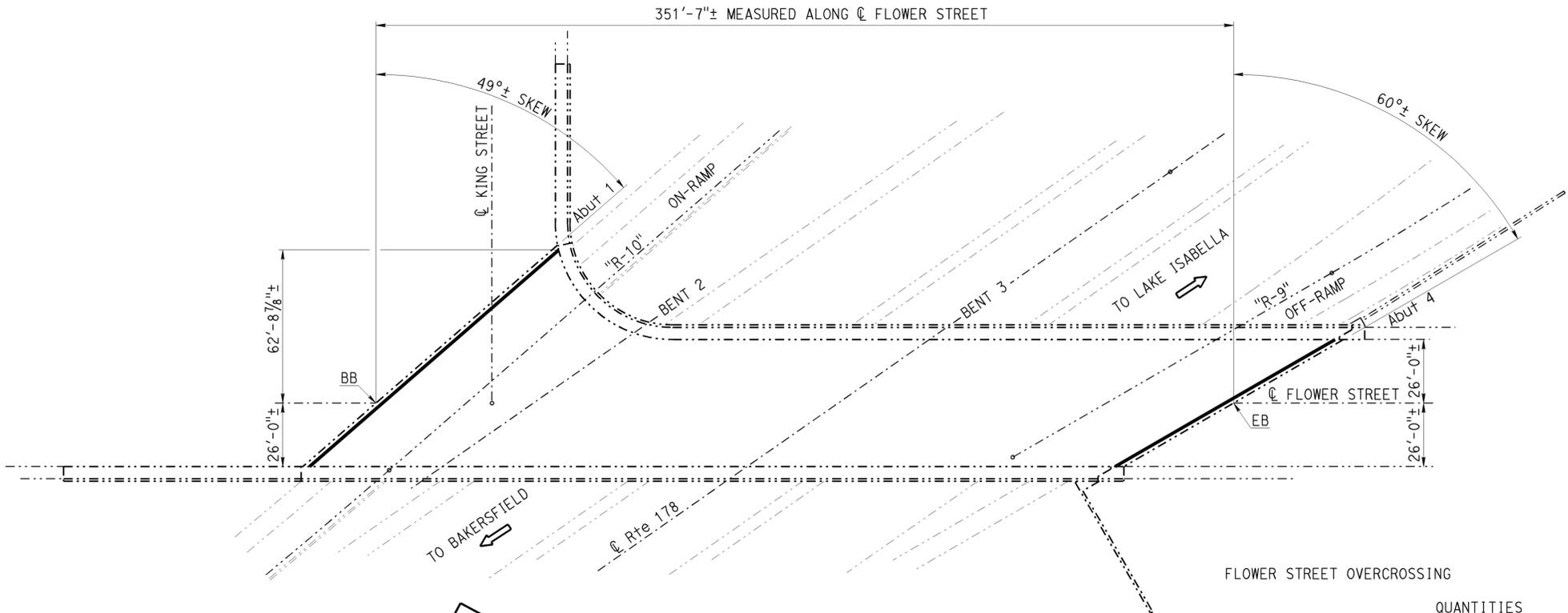
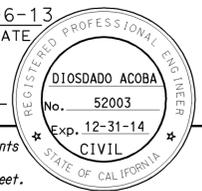
DESIGN	BY M. Hashimoto	CHECKED D. Acoba	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED D. Acoba	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED D. Acoba	SPECIFICATIONS	BY Jarvis Mahe

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIOUS
ROUTE 65, 99, 178, 223 BRIDGES
GENERAL PLAN NO. 6

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	16	18
REGISTERED CIVIL ENGINEER			DATE	11-6-13	
PLANS APPROVAL DATE			2-18-14		
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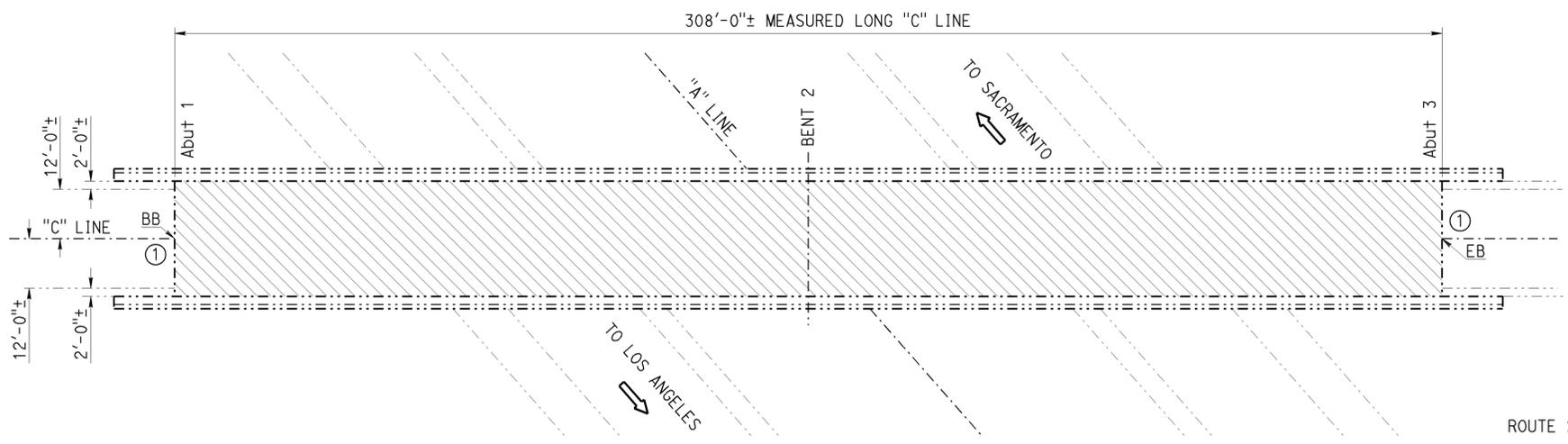


- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "Deck Repair Detail - Overlay" on "JOINT SEAL DETAILS" sheet.
 - Indicates location of existing joint seal removal and placement of new joint seal.
 - ① Indicates location of AC roadway taper. See "Road Plans".

FLOWER STREET OVERCROSSING
 Br. No. 50-0283, ROUTE 178, Ker, PM R3.33
 1" = 30'

QUANTITIES

CLEAN EXPANSION JOINT	241	LF
JOINT SEAL (MR 1")	136	LF
JOINT SEAL (MR 2")	105	LF



ROUTE 223/5 SEPARATION
 Br. No. 50-0298, ROUTE 223, Ker, PM 1.88
 1" = 20'

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	22	CF
REMOVE UNSOUND CONCRETE	22	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	8,624	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	647	CF
PLACE POLYESTER CONCRETE OVERLAY	8,624	SQFT

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

Matthew Lee 11-6-13
 DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED D. Acoba	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED D. Acoba	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED D. Acoba	SPECIFICATIONS	BY Jarvis Mahe

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 65, 99, 178, 223 BRIDGES
GENERAL PLAN NO. 7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	17	18

11-6-13
REGISTERED CIVIL ENGINEER DATE

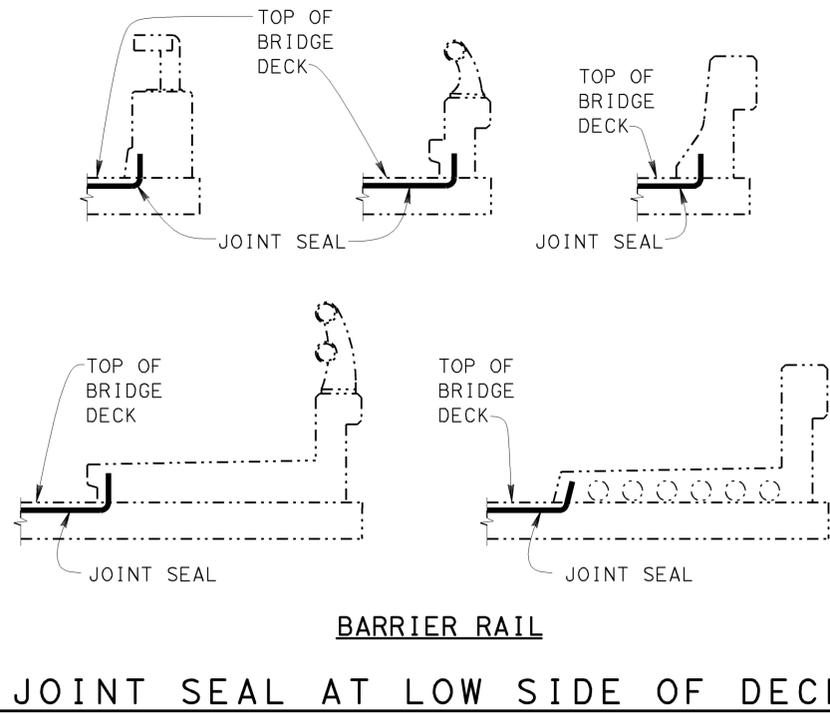
2-18-14
PLANS APPROVAL DATE

DIOSDADO ACOPA
No. 52003
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	
POSO CREEK	50-0500	Abut 1	BW	1	41	NO	12
		Abut 3	BW	1	41	NO	12
TRUXTUN AVENUE UNDERCROSSING	50-0268	Abut 1	BB	1	116	NO	12
		Abut 4	EB	1	116	NO	12
KERN RIVER	50-0236	Abut 1	BB	1/2	199	NO	12
		HINGE	H	2 1/2	251	YES	8
BEARDSLEY CANAL	50-0050L	Abut 1	BB	1/2	42	NO	12
		Abut 4	EB	1/2	42	NO	12
	50-0050R	Abut 1	BB	1/2	43	NO	12
		Abut 4	EB	1/2	42	NO	12
WOOLLOMES AVENUE OVERCROSSING	50-0210	Abut 1	BW	1	48	NO	12
		Abut 5	BW	1	48	NO	12
NORTH DELANO OVERHEAD	50-0214	Abut 1	BW	1	99	NO	12
		Abut 7	BW	1/2	99	NO	12
FLOWER STREET OVERCROSSING	50-0283	Abut 1	BW	1	136	YES	12
		Abut 4	BW	2	105	YES	12

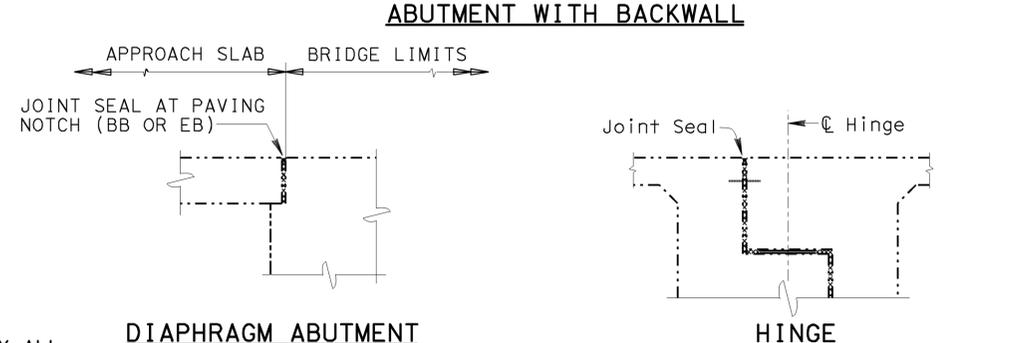
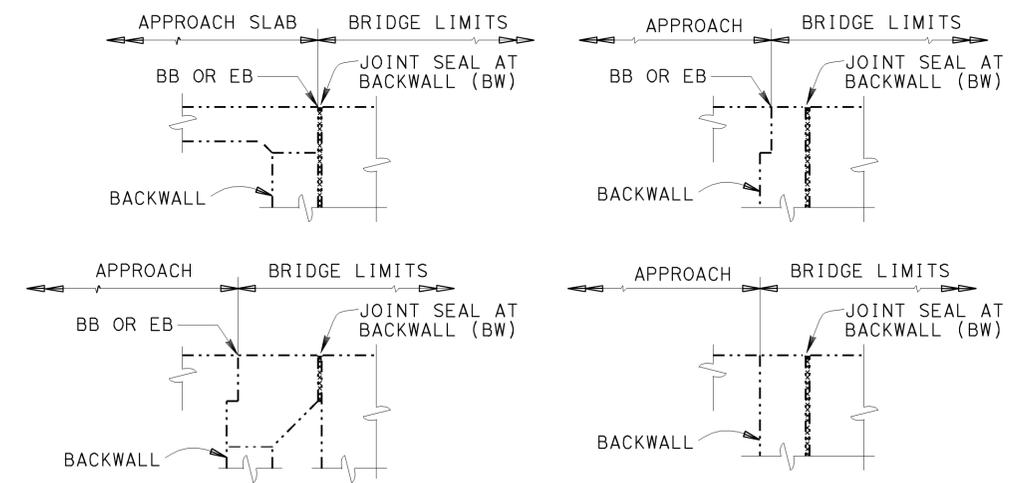


JOINT SEAL AT LOW SIDE OF DECK

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

- 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.
 - For details not shown, see B6-21

LEGEND:
 BW - Abutment backwall joint
 BB - Paving Notch at beginning of bridge
 EB - Paving Notch at end of bridge
 H - Hinge joint



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

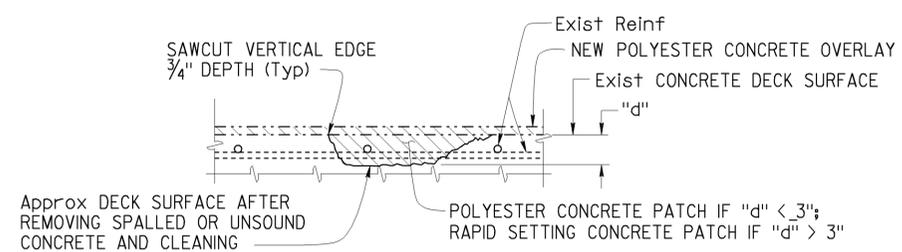
JOINT SEAL LOCATION

DECK REPAIR TABLE

REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
MERCED AVENUE OVERCROSSING	50-0179	1	3
ROUTE 223/5 SEPARATION	50-0298	1	3

Locations to be determined by the Engineer. For details see "Deck Repair Detail - Overlay".

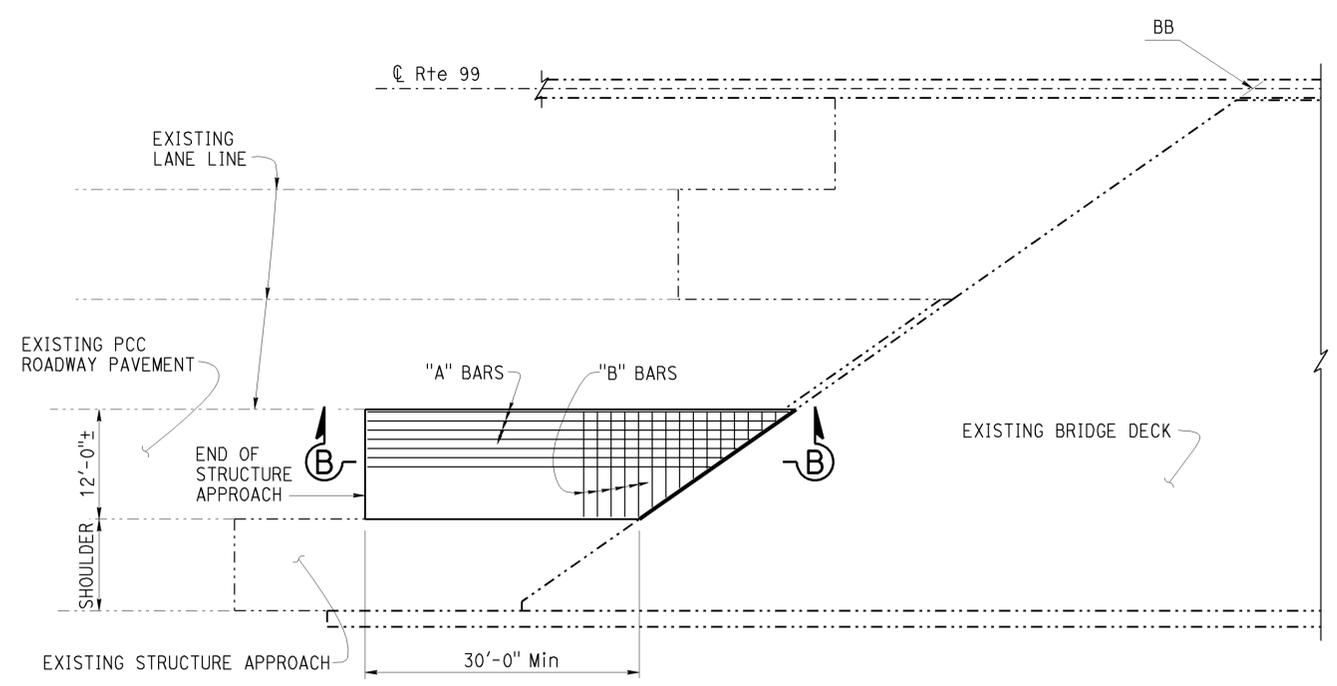


DECK REPAIR DETAIL - OVERLAY

Note: Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal.
 NO SCALE

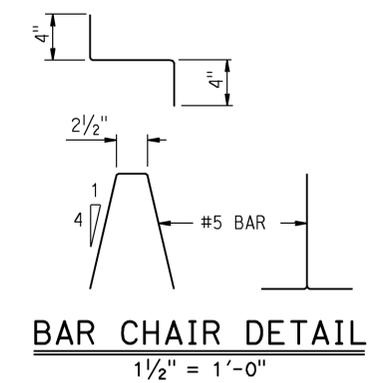
DESIGN BY M. Hashimoto	CHECKED D. Acoba	STATE OF CALIFORNIA	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS	ROUTE 65, 99, 178, 223 BRIDGES
DETAILS BY Dale Kubochi	CHECKED D. Acoba	DEPARTMENT OF TRANSPORTATION		POST MILE VARIES	JOINT SEAL DETAILS
QUANTITIES BY M. Hashimoto	CHECKED D. Acoba				

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	65,99, 178,223	Var	18	18
REGISTERED CIVIL ENGINEER				DATE	
11-6-13					
2-18-14				PLANS APPROVAL DATE	
REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No. 52003 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA					
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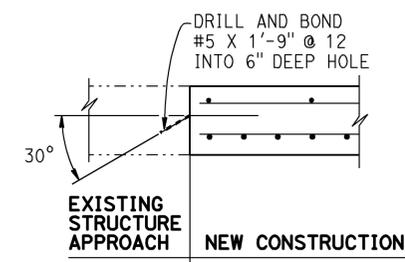


PART PLAN
1" = 10'

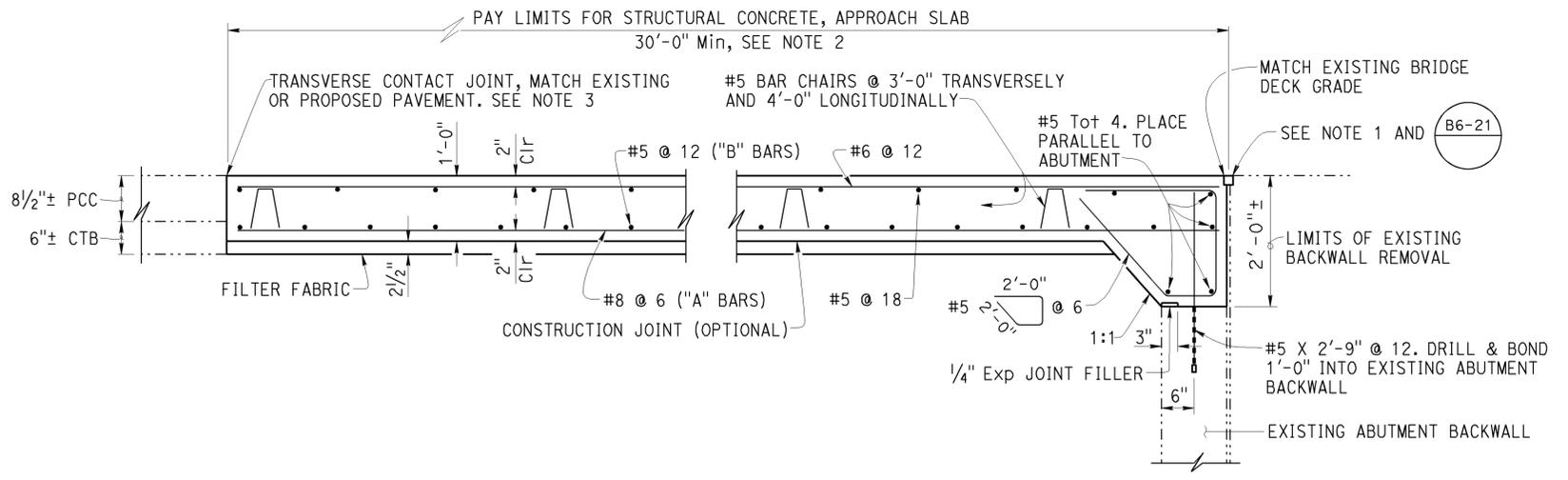
NOTE: BB of Northbound side of bridge shown, EB of Southbound side of bridge similar.



BAR CHAIR DETAIL
1 1/2" = 1'-0"



LONGITUDINAL CONSTRUCTION JOINT
3/4" = 1'-0"



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

NOTES:

1. Sealed joint, for MR see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
2. Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint.
3. For transverse contact joint with new PCC paving, refer to Standard Plan P10.
4. At the Contractor's option, approach slab transverse reinforcement may be placed parallel to BB or EB. Spacing of transverse reinforcement is measured along \bar{c} roadway.

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

NOTE: DETAILS THIS SHEET FOR "NORTH DELANO OVERHEAD", Br. No. 50-0214 ONLY.

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY M. Hashimoto	CHECKED D. Acoba	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. VARIOUS POST MILE VARIES	ROUTE 65, 99, 187, 223 BRIDGES STRUCTURE APPROACH TYPE R(30S)
	DETAILS	BY Dale Kubochi	CHECKED D. Acoba			
	QUANTITIES	BY M. Hashimoto	CHECKED D. Acoba			
UNIT: 3488	PROJECT NUMBER & PHASE: 0612000162	CONTRACT NO.: 06-0P0501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 9	OF 9

USERNAME => s124428 DATE PLOTTED => 29-JAN-2014 TIME PLOTTED => 08:44