

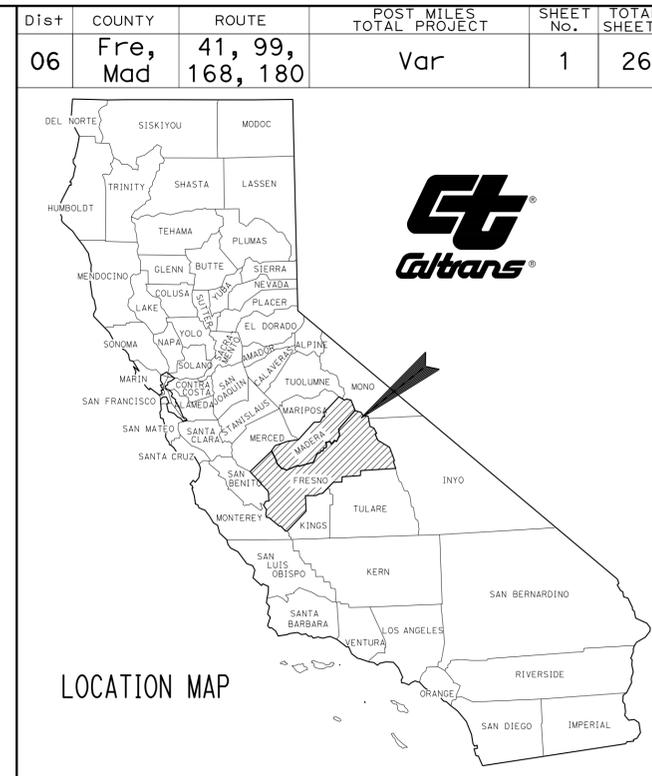
INDEX OF PLANS

Sheet No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	CONSTRUCTION AREA SIGNS
4	SUMMARY OF QUANTITIES
5-13	REVISED AND NEW STANDARD PLANS
14-26	STRUCTURES AND GENERAL PLANS

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

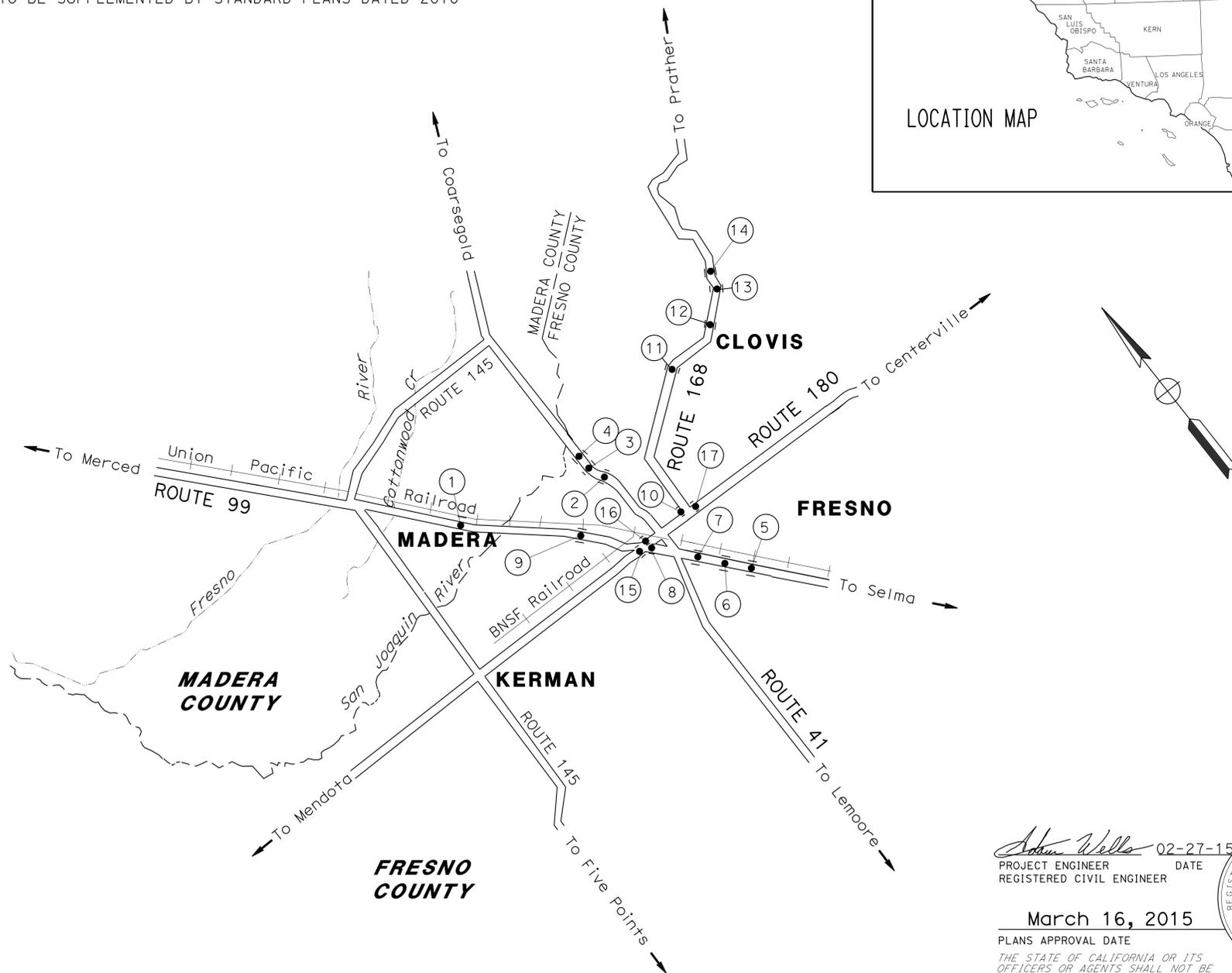
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN FRESNO AND MADERA COUNTIES
AT
VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

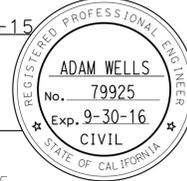


LOCATIONS OF CONSTRUCTION

Loc	COUNTY	Rte	PM	DESCRIPTION	BRIDGE No.
①	Mad	99	R0.99	AVENUE 7 OC	41-0064
②	Fre	41	R27.47	ASHLAN AVENUE OC	42-0277
③	Fre	41	R31.20	EL PASO AVENUE UC	42-0389L
④	Fre	41	R31.45	NEES AVENUE UC	42-0388L
⑤	Fre	99	14.51	AMERICAN AVENUE OC	42-0205
⑥	Fre	99	15.49	CHESTNUT AVENUE OC	42-0206
⑦	Fre	99	18.54	JENSEN AVENUE UC	42-0213
⑧	Fre	99	21.73	Rte 99S-Rte 180E/Rte 180E-Rte 99S, Rte 99, Rte 99N-Rte 180W Sep	42-0311F
⑨	Fre	99	24.20	Rte 99S OFF-RAMP TO MOTEL DRIVE Sep	42-0182
⑩	Fre	168	R0.39	CEDAR AVENUE RAMP UC (Rte 168W-Rte 180W CONNECTOR RAMP)	42-0331F
⑪	Fre	168	R4.95	BARSTOW AVENUE OC	42-0360
⑫	Fre	168	R5.63	BULLARD AVENUE OC	42-0401
⑬	Fre	168	R6.30	SIERRA AVENUE UC	42-0403L/R
⑭	Fre	168	R9.15	TEMPERANCE AVENUE UC	42-0410R
⑮	Fre	180	R56.19	Rte 180E-Rte 99N/Rte 99S-Rte 180E CONNECTOR OC	42-0391G
⑯	Fre	180	R56.42	Rte 180W/Rte 99N-Rte 180W CONNECTOR UC	42-0312R
⑰	Fre	180	R60.59	Rte 180W-Rte 168E CONNECTOR OC	42-0395F



Adam Wells 02-27-15
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
March 16, 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.



PROJECT MANAGER
BILL MOSES
 DESIGN ENGINEER
RENE SANCHEZ

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

NO SCALE

LAST REVISION: 12-22-14
 DATE PLOTTED => 23-MAR-2015
 TIME PLOTTED => 16:09

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
(A)	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	33
(B)	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	24

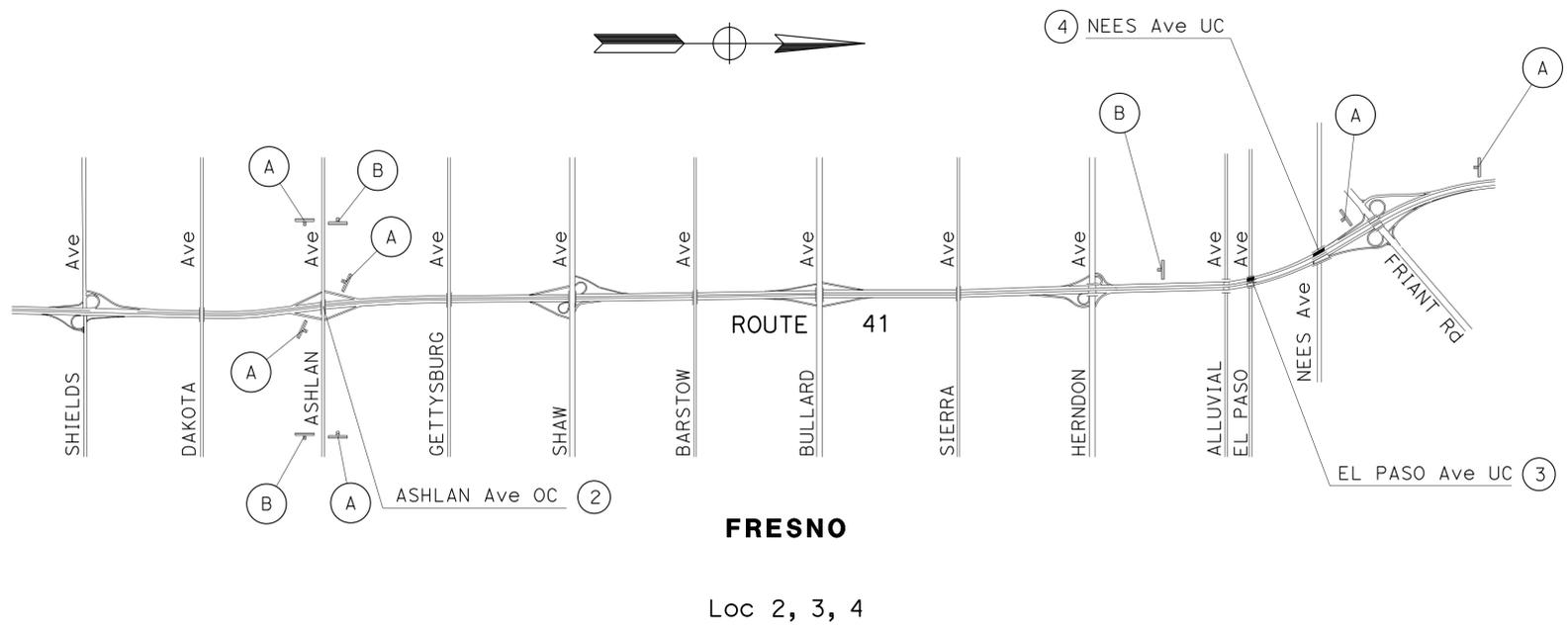
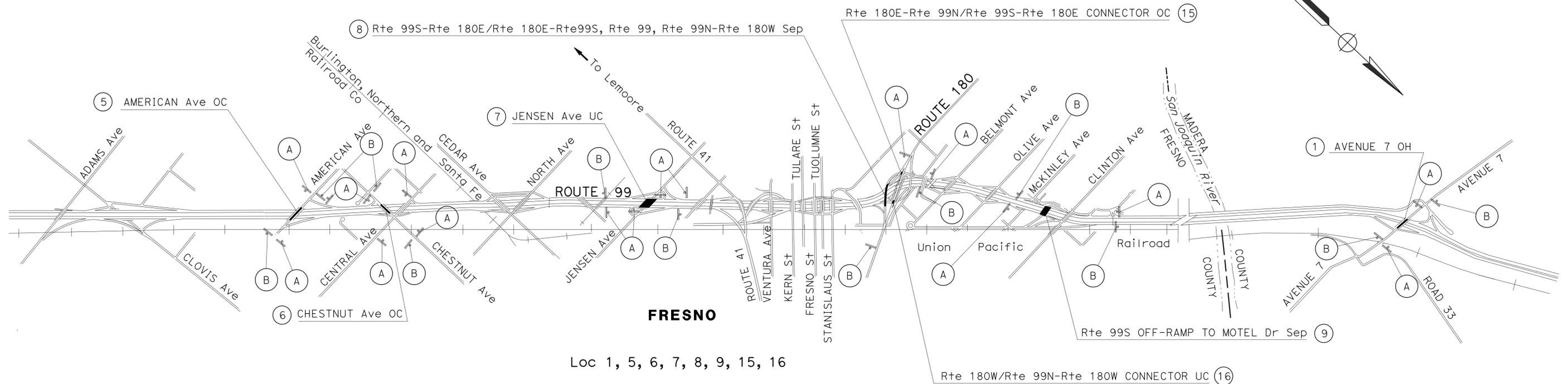
NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	2	26

Adam Wells 2-27-15
 REGISTERED CIVIL ENGINEER DATE
 3-16-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ADAM WELLS
 No. 79925
 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.

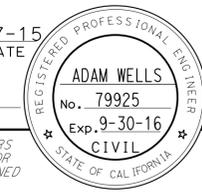


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: RENE SANCHEZ
 CALCULATED-DESIGNED BY: RENE SIQUEIROS
 CHECKED BY: ADAM WELLS
 REVISED BY: [] DATE REVISED: []

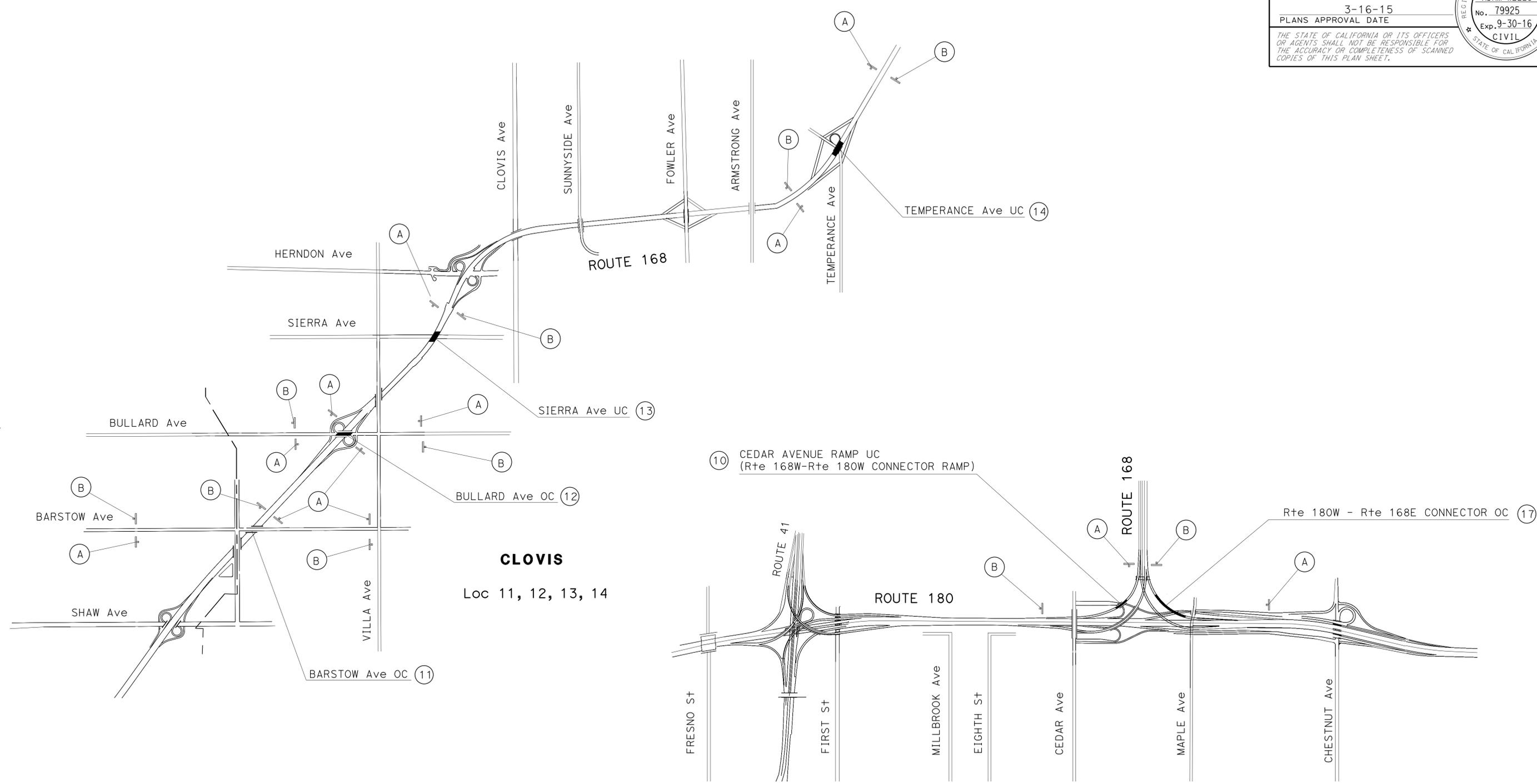
CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION DATE PLOTTED => 23-MAR-2015
 02-27-15 TIME PLOTTED => 16:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180,	Var	3	26
 REGISTERED CIVIL ENGINEER			2-27-15	DATE	
PLANS APPROVAL DATE			3-16-15		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: RENE SANCHEZ
 CALCULATED-DESIGNED BY: RENE SIQUEIROS
 CHECKED BY: ADAM WELLS
 REVISED BY: RENE SIQUEIROS
 DATE REVIS: ADAM WELLS



CONSTRUCTION AREA SIGNS
 NO SCALE
CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	4	26

Adam Wells 2-27-15
 REGISTERED CIVIL ENGINEER DATE

3-16-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ADAM WELLS
 No. 79925
 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.

PAVEMENT DELINEATION QUANTITIES

Loc No.	DETAIL No.	PAVEMENT MARKER (RETROREFLECTIVE)			THERMOPLASTIC TRAFFIC STRIPE							REMOVE PAVEMENT MARKER	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC PAVEMENT MARKING		REMOVE THERMOPLASTIC PAVEMENT MARKING	
		TYPE D (YELLOW TWO WAY)	TYPE G (CLEAR ONE WAY)	TYPE H (YELLOW ONE WAY)	4" SOLID	4" (BROKEN 17-7)	4" (BROKEN 36-12)	6" SOLID	6" (BROKEN 8-4)	8" SOLID	8" (BROKEN 12-3)				EA	LF	LF	DESCRIPTION
①	21	EA	EA	EA	LF	LF	LF	LF	LF	LF	EA	LF	LF	DESCRIPTION	SQFT	DESCRIPTION	SQFT	
	27B				520							520						
②	8					460												
	38A								120									
⑤	21				570							570						
⑦	8					200												
	9		6			200					6							
	12		14				600				14							
	25A			18	400						18	400						
⑧	27B				400													
	12		14				600				14							
	25A			27	600						27	600						
⑨	27B				600													
	12		6				225				6							
	25A			8	150						8	150						
⑩	27B				150													
	36		16						300		16							
	12		6				230				6							
⑪	25A			11	230						11	230						
	27B				230													
⑫	29	22			940						22	940				2-BIKE	10	
	39						425									2-LANE	12	
	39A							140										
⑬	8					820												
	27B				700													
	36		40						920		40							
	37		22							22								
⑭	12		22				960				22					1-TYPE VI ARROW	42	
	25A			22	480						22	480						
	27B				480													
⑮	37		18								18							
	12		6				205				6							
⑯	25A			10	205						10	205						
	27B				205													
⑰	25A			8	160						8	160						
	27B				160													
⑱	12						165											
	27B				165													
	29	8			330						8							
	12						675											
⑳	25A			30	675						30	675						
	27B				675													
SUBTOTAL		30	170	134	9545	1680	3660	425	140	1340	930	334	4930	8950		64	64	
TOTAL			334		9545	1680	3660	425	140	1340	930	334	4930	8950		64	64	

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

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	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	
SL	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
TeI	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41,99, 168,180	Var	5	26

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 3-16-15

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

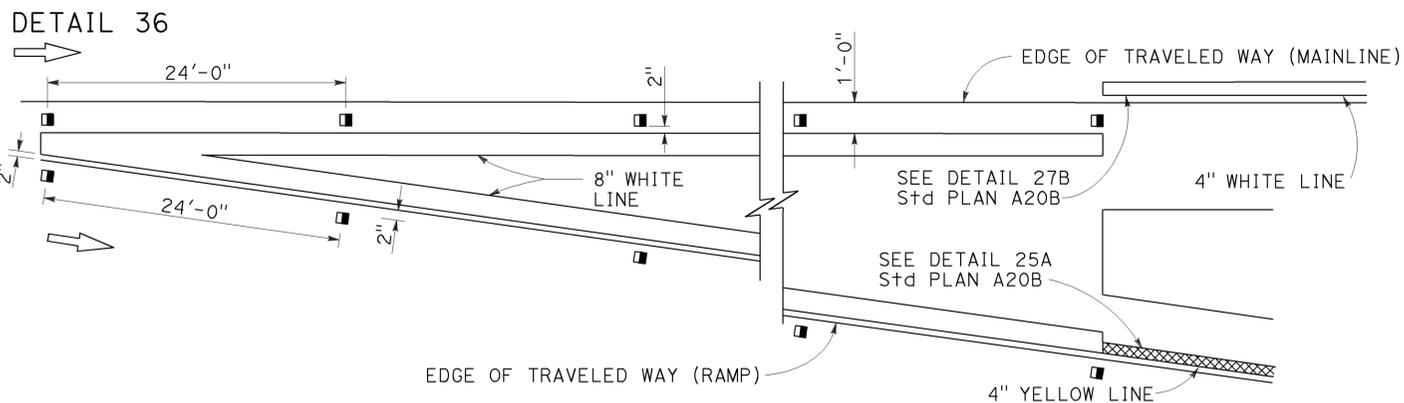
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

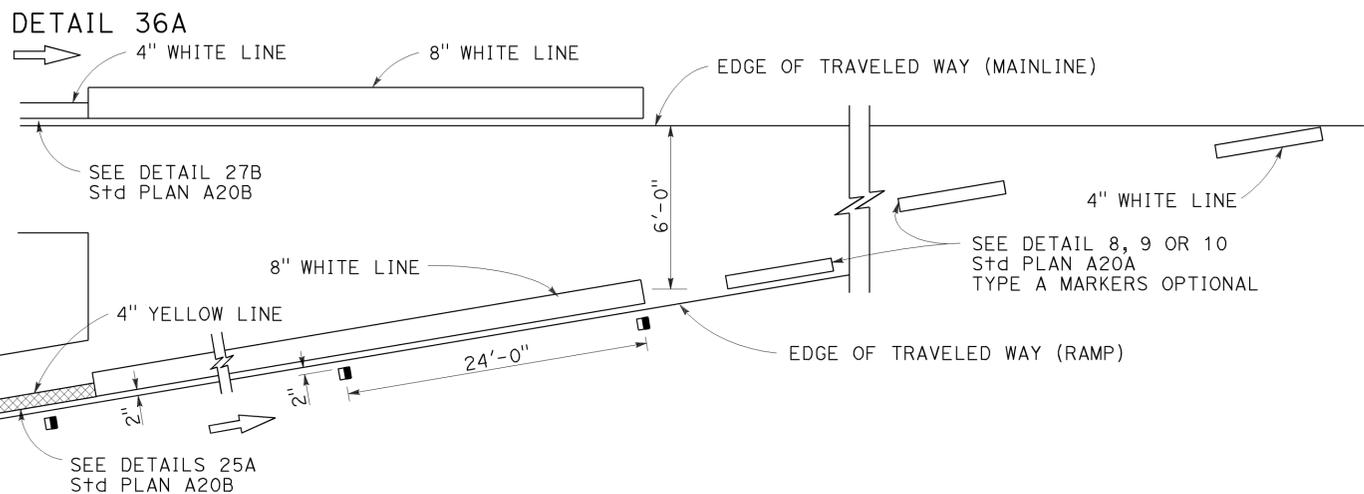
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

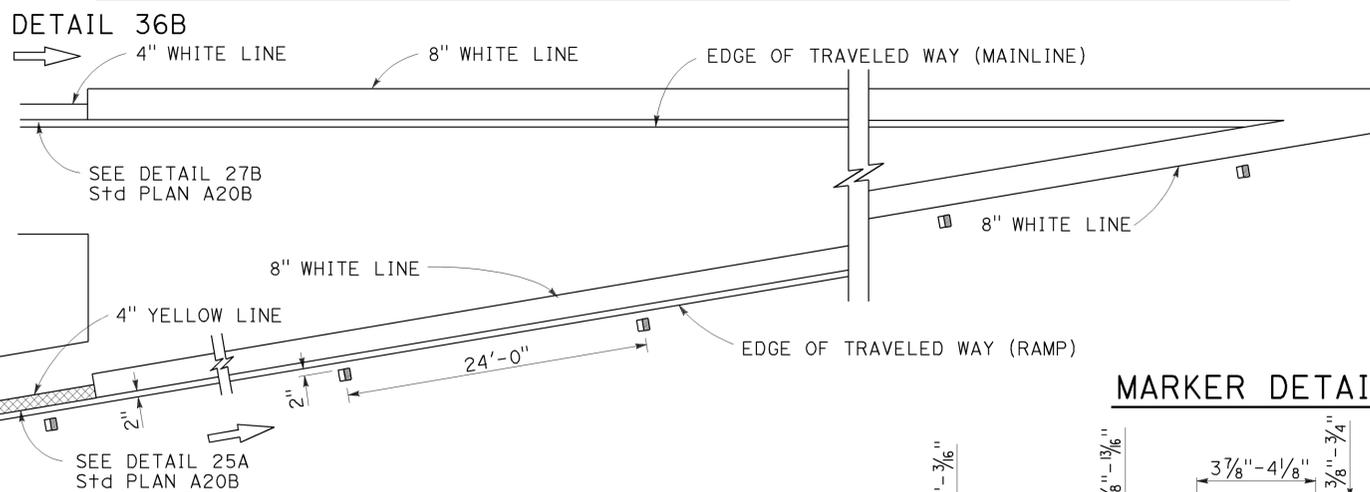
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

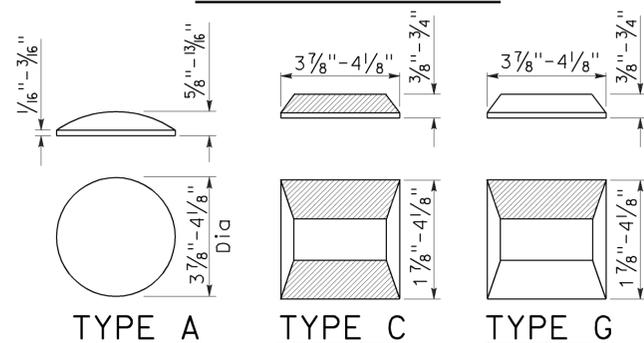


MARKER DETAILS

LEGEND:

MARKERS

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



RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41,99, 168,180	Var	6	26

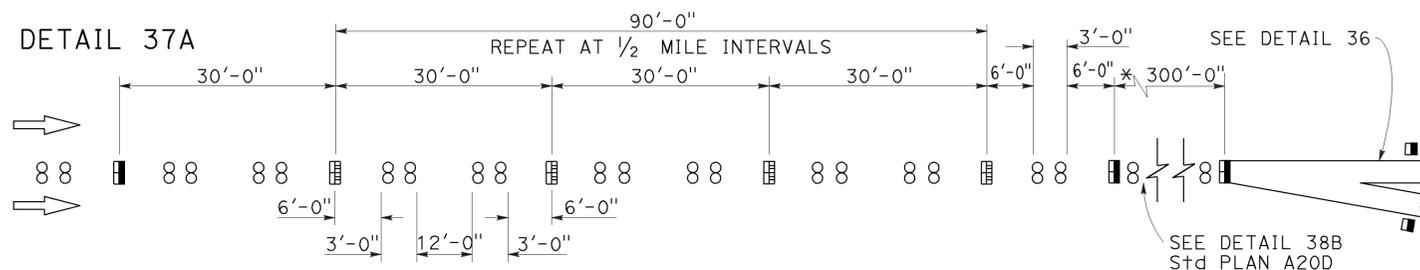
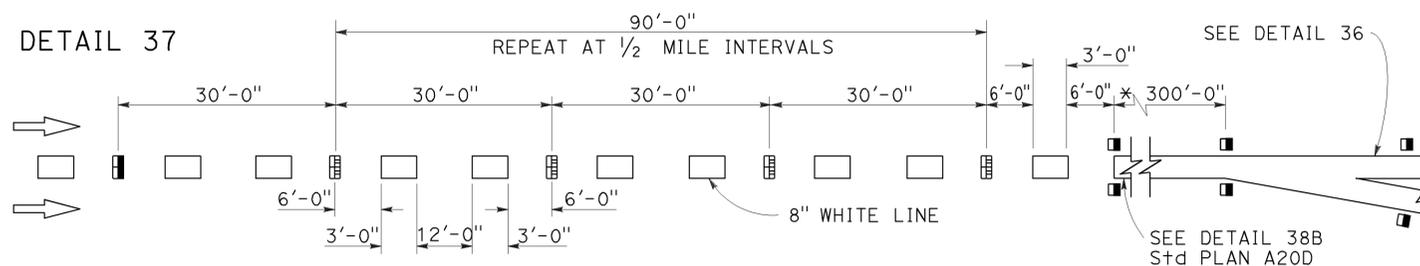
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 No. C40375
 Exp. 3-31-15
 CIVIL
 STATE OF CALIFORNIA

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.

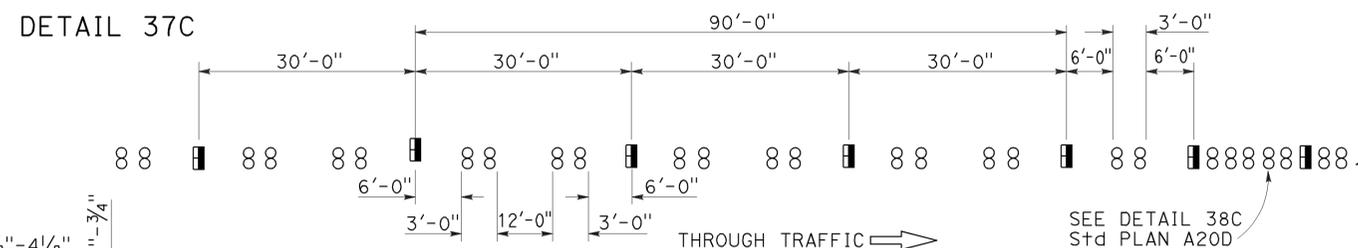
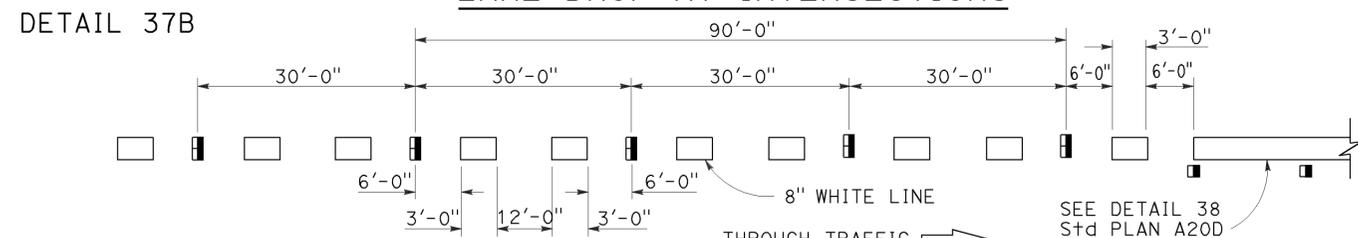
TO ACCOMPANY PLANS DATED 3-16-15

LANE DROP AT EXIT RAMP



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

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

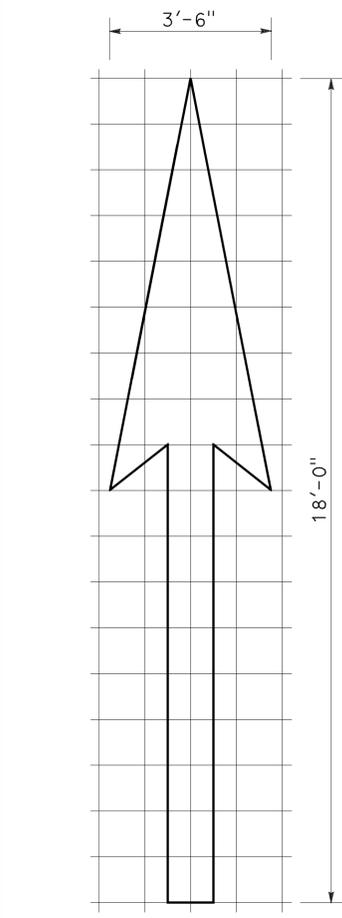
RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

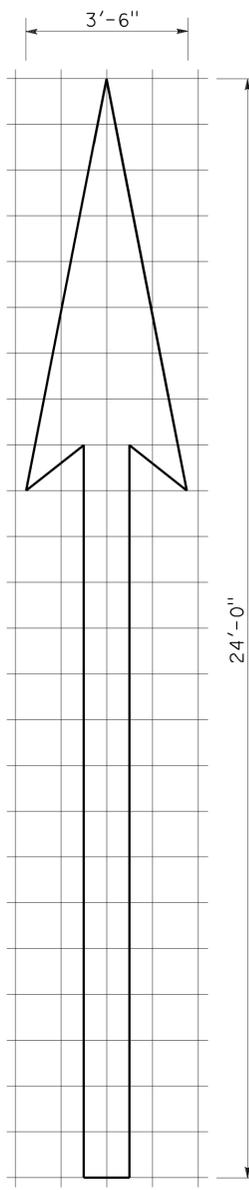
2010 REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41,99, 168,180	Var	7	26
REGISTERED CIVIL ENGINEER April 20, 2012 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>					

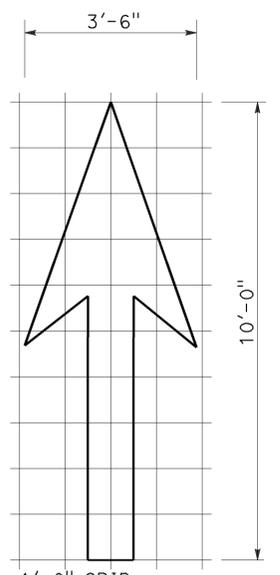
TO ACCOMPANY PLANS DATED 3-16-15



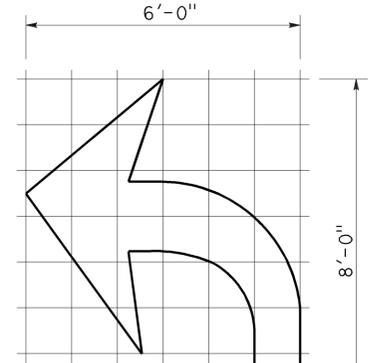
A=25 ft²
TYPE I 18'-0" ARROW



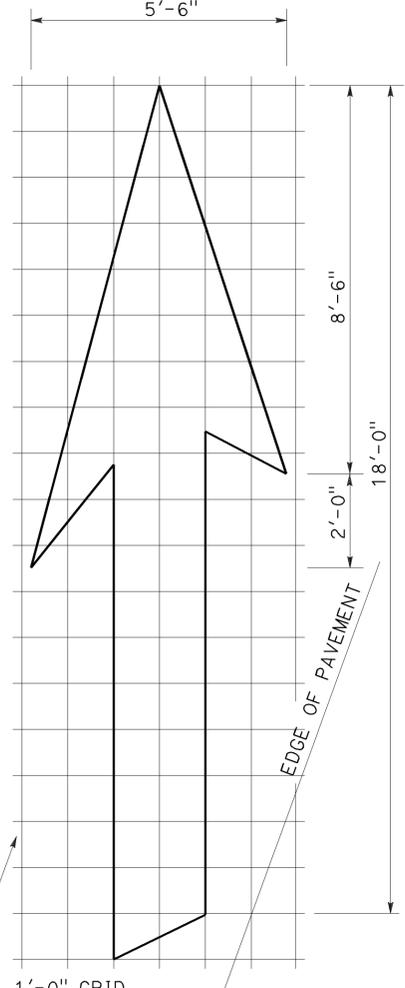
A=31 ft²
TYPE I 24'-0" ARROW



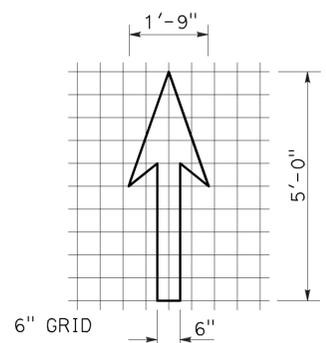
A=14 ft²
TYPE I 10'-0" ARROW



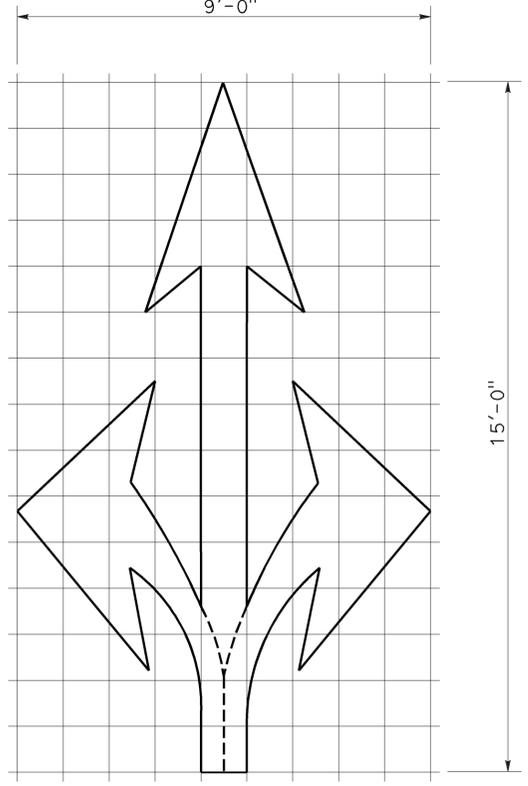
A=15 ft²
TYPE IV (L) ARROW
(For Type IV (R) arrow, use mirror image)



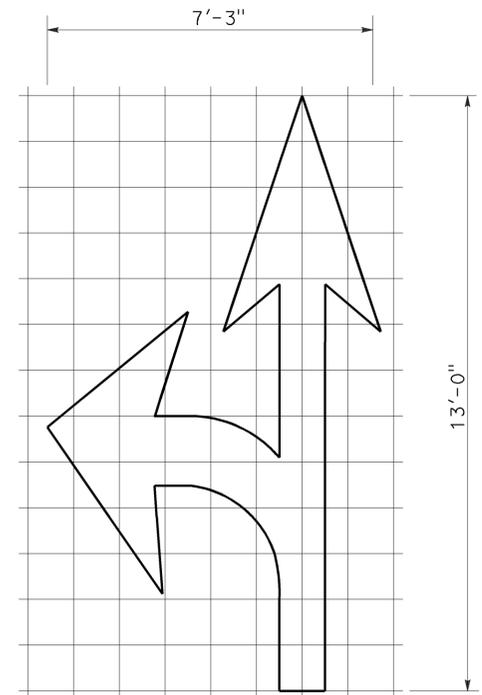
A=42 ft²
TYPE VI ARROW
Right lane drop arrow
(For left lane, use mirror image)



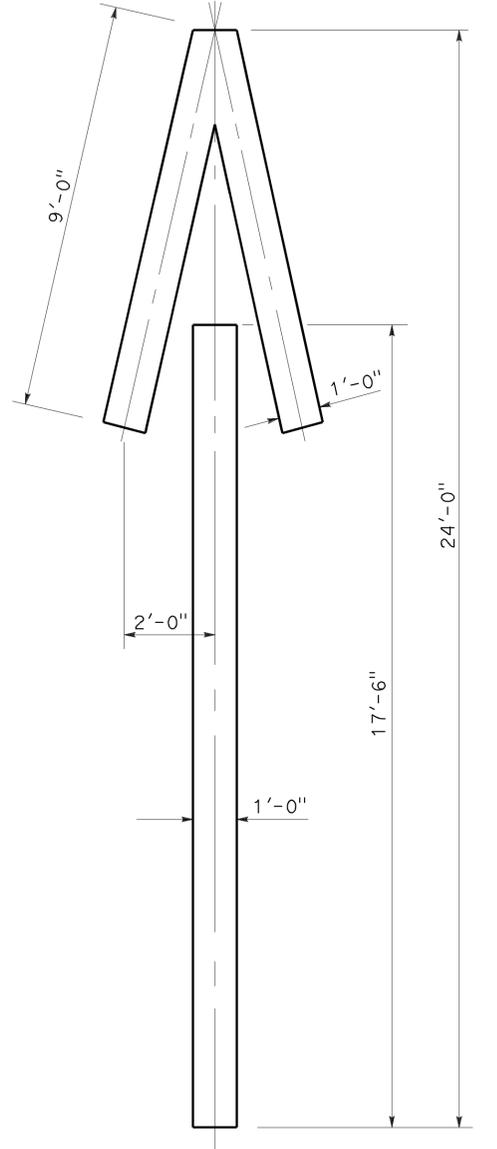
A=3.5 ft²
BIKE LANE ARROW



A=36 ft²
TYPE VIII ARROW



A=27 ft²
TYPE VII (L) ARROW
(For Type VII (R) arrow, use mirror image)



A=33 ft²
TYPE V ARROW

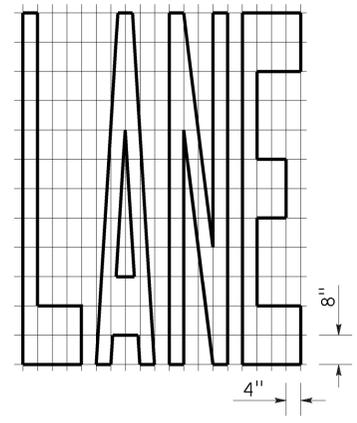
NOTE:
Minor variations in dimensions may be accepted by the Engineer.

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

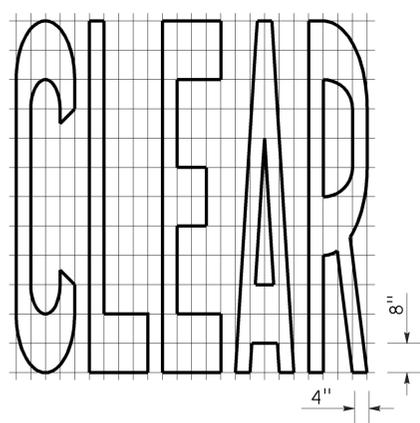
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A24A

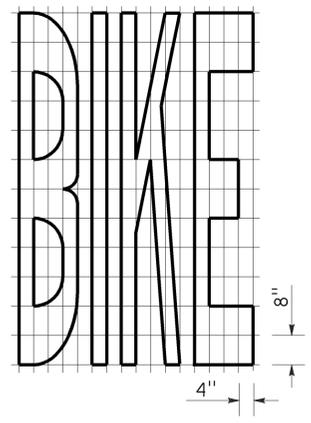
TO ACCOMPANY PLANS DATED 3-16-15



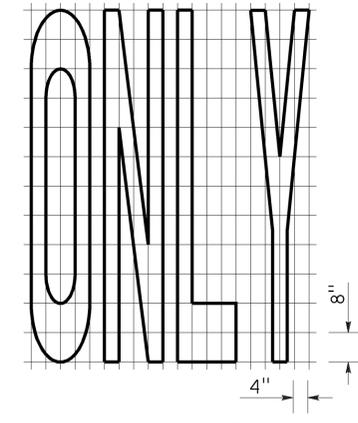
A=24 ft²



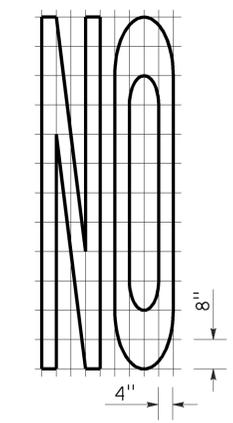
A=27 ft²



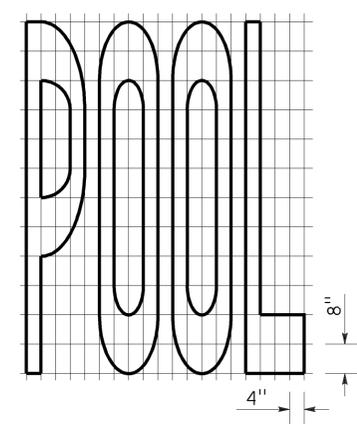
A=21 ft²



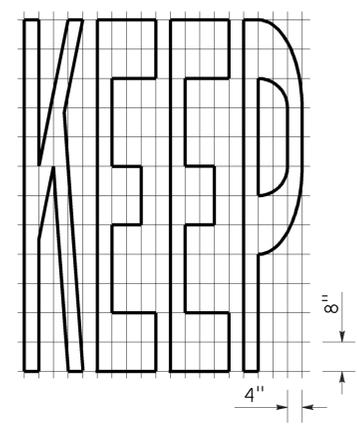
A=22 ft²



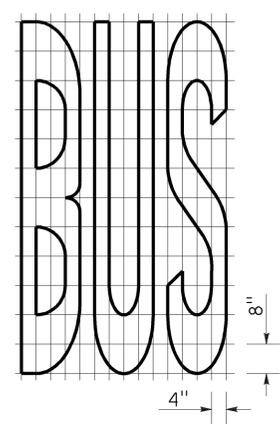
A=14 ft²



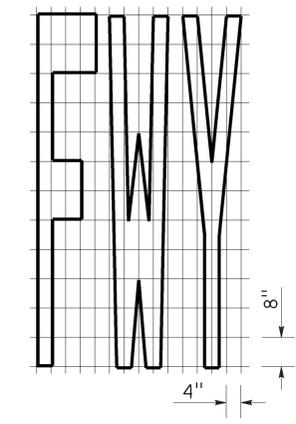
A=23 ft²



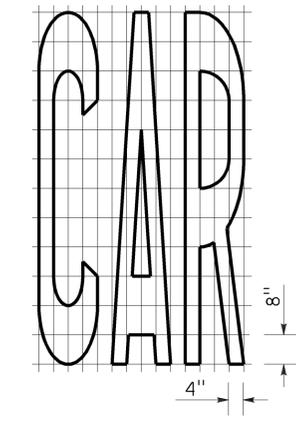
A=24 ft²



A=20 ft²

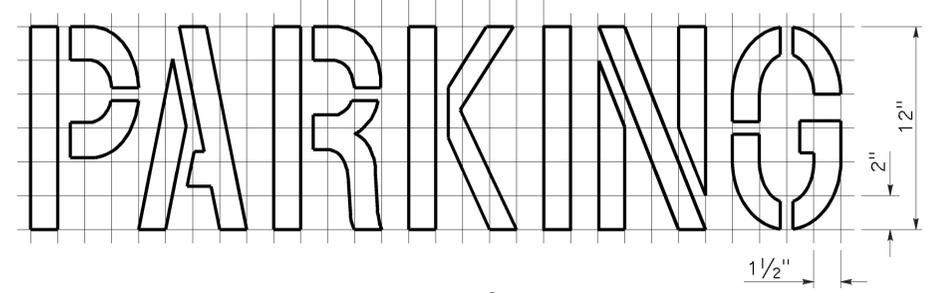
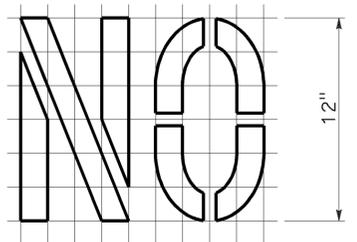


A=16 ft²

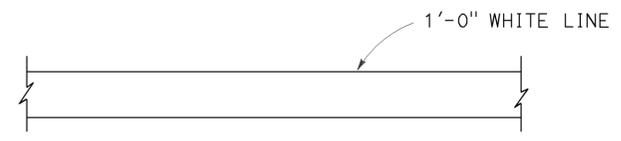


A=17 ft²

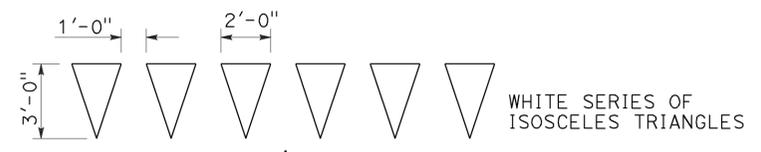
WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



DIRECTION OF TRAVEL
YIELD LINE

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES**

NO SCALE

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

2010 REVISED STANDARD PLAN RSP A24E

TO ACCOMPANY PLANS DATED 3-16-15

TABLE 1

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

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

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

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

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
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

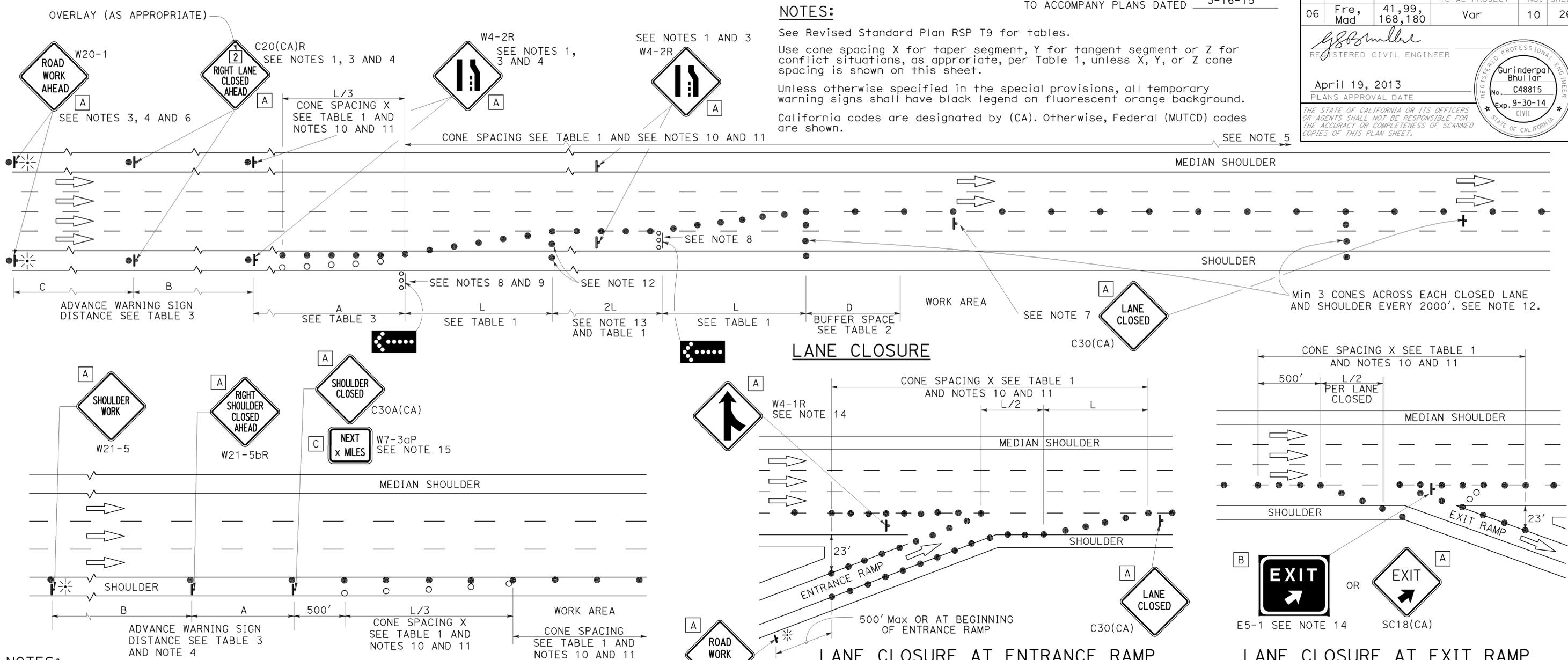
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41,99, 168,180	Var	10	26

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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

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



- NOTES:**
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.

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.

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

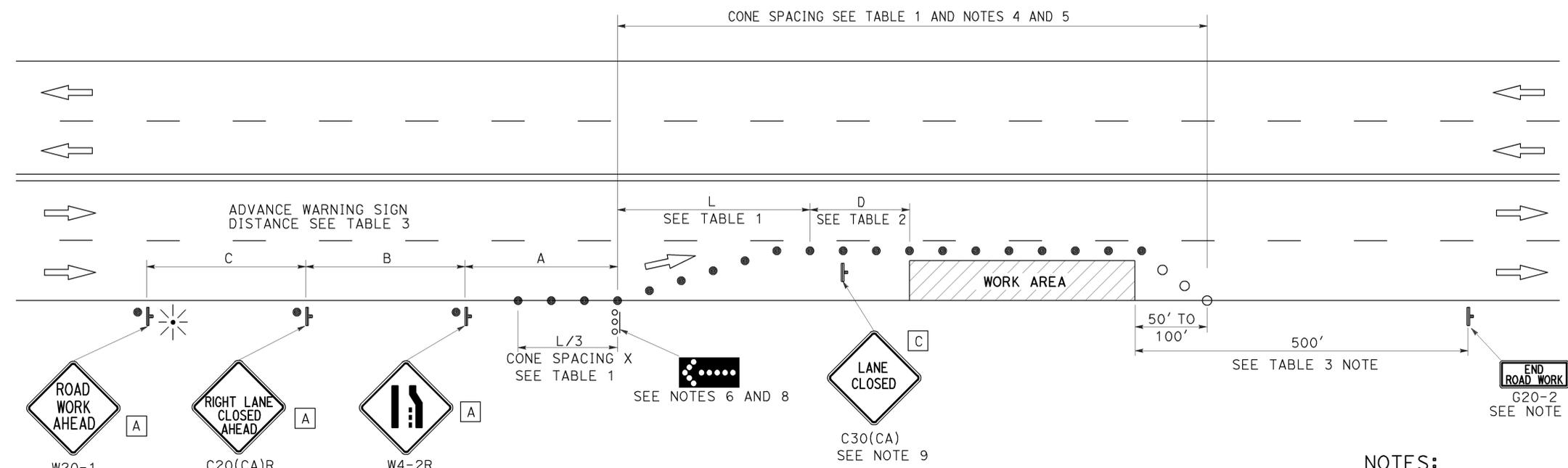
RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10



TO ACCOMPANY PLANS DATED 3-16-15



TYPICAL LANE CLOSURE

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:

- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- 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.
- 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.
- Flashing arrow sign shall be either Type I or Type II.
- For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- 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 closure unless, otherwise directed by the Engineer.

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 36" x 18"
- C 30" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
MULTILANE CONVENTIONAL
HIGHWAYS**

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

NOTES:

See Revised Standard Plan RSP T9 for tables.

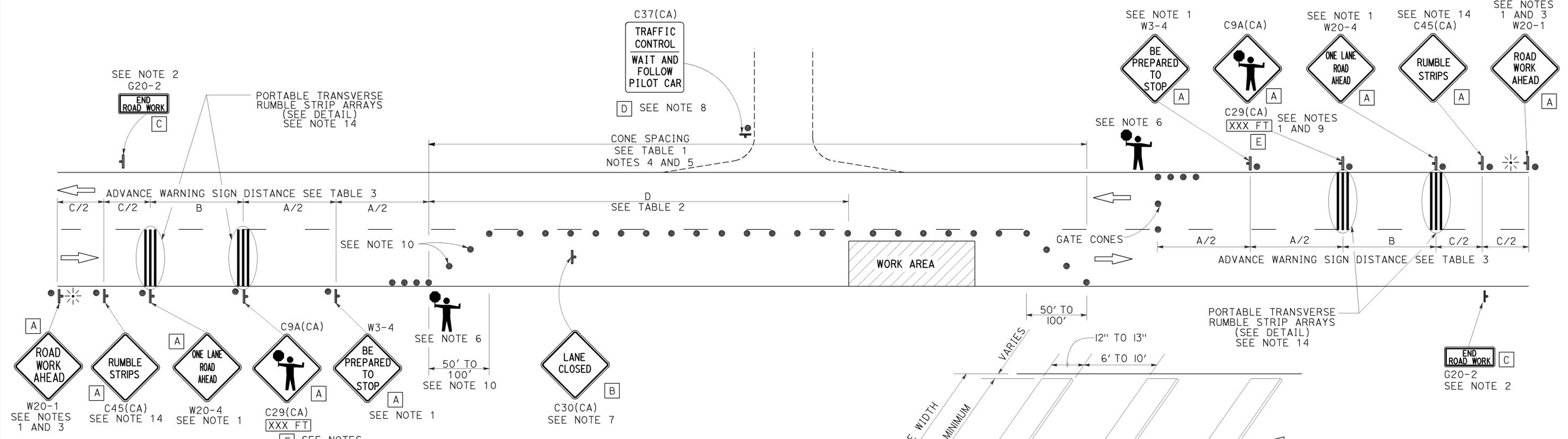
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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.

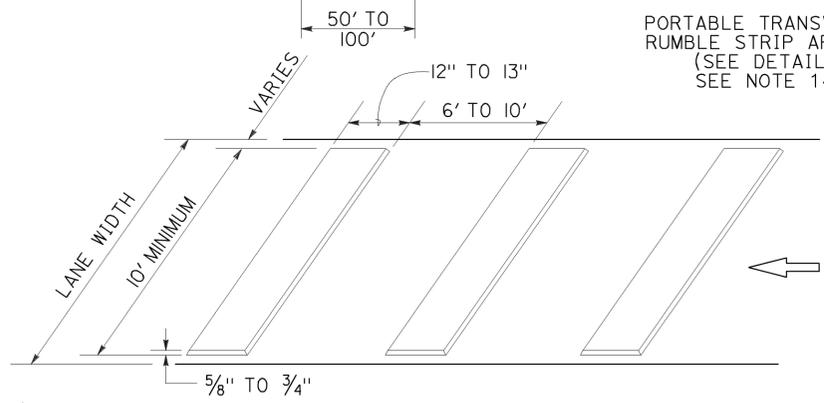
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 3-16-15



- 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
06	Fre, Mad	41,99, 168,180	Var	13	26

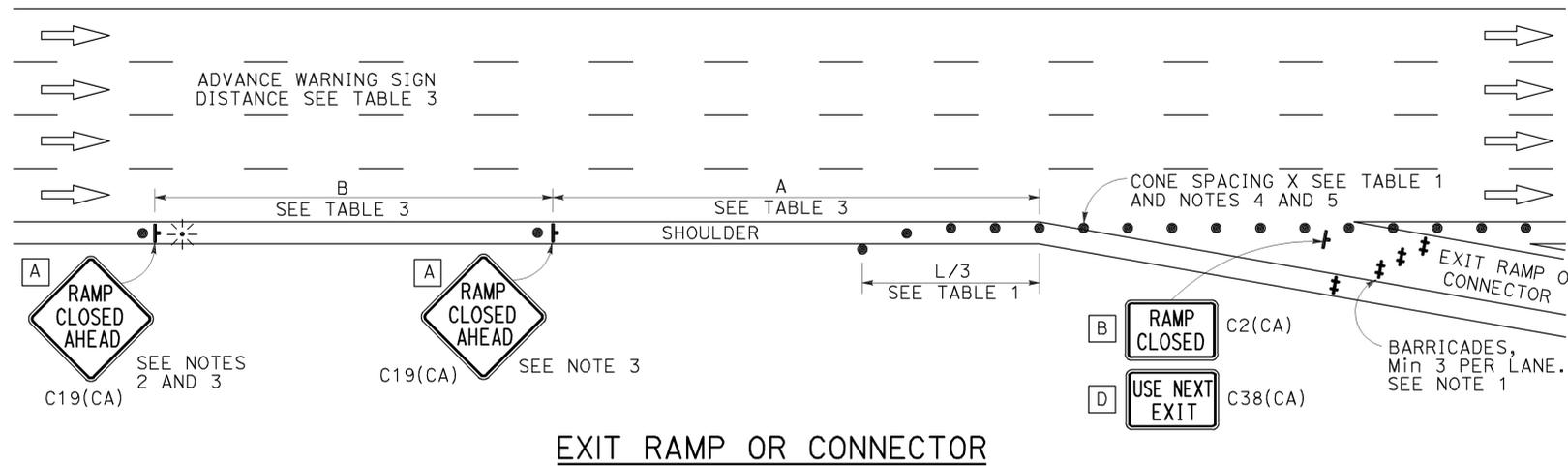
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

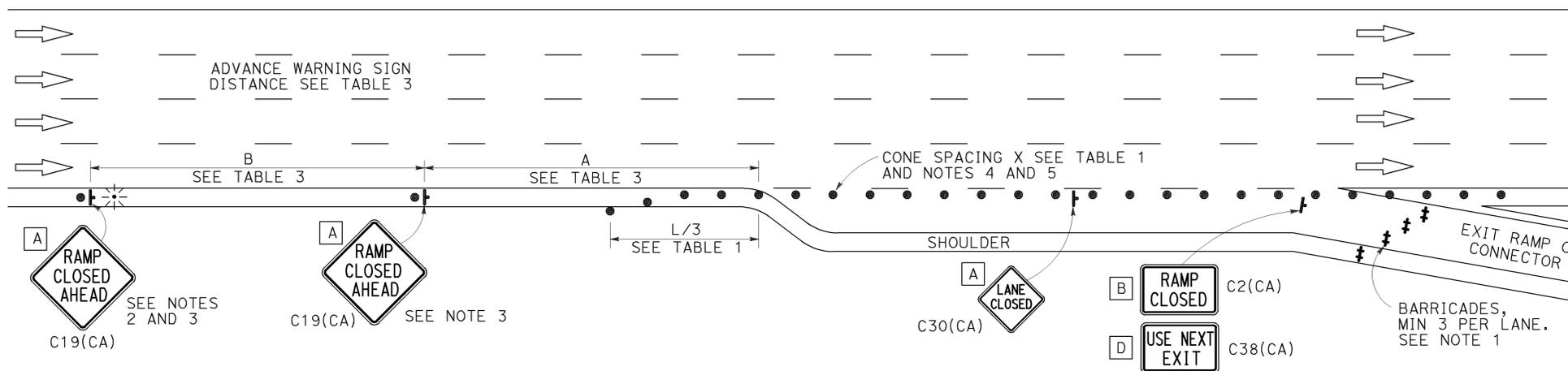
TO ACCOMPANY PLANS DATED 3-16-15

NOTES:

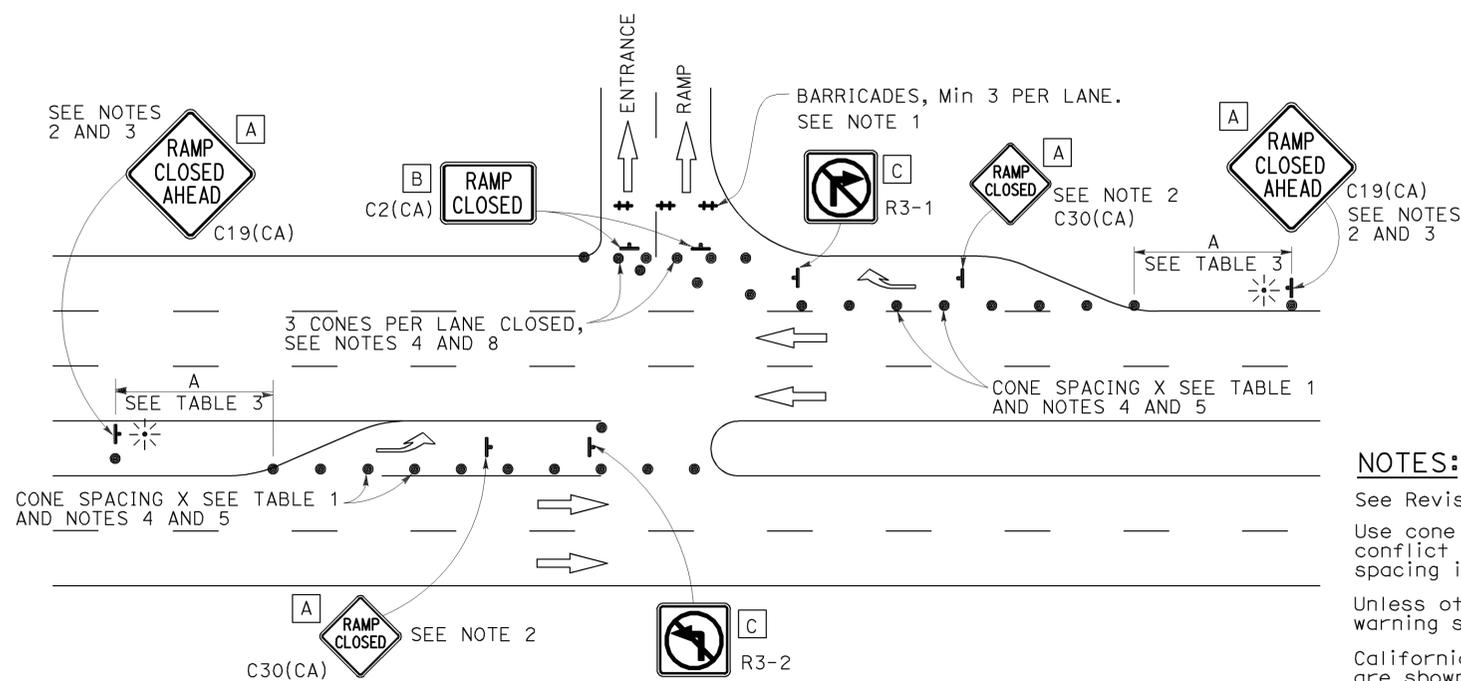
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



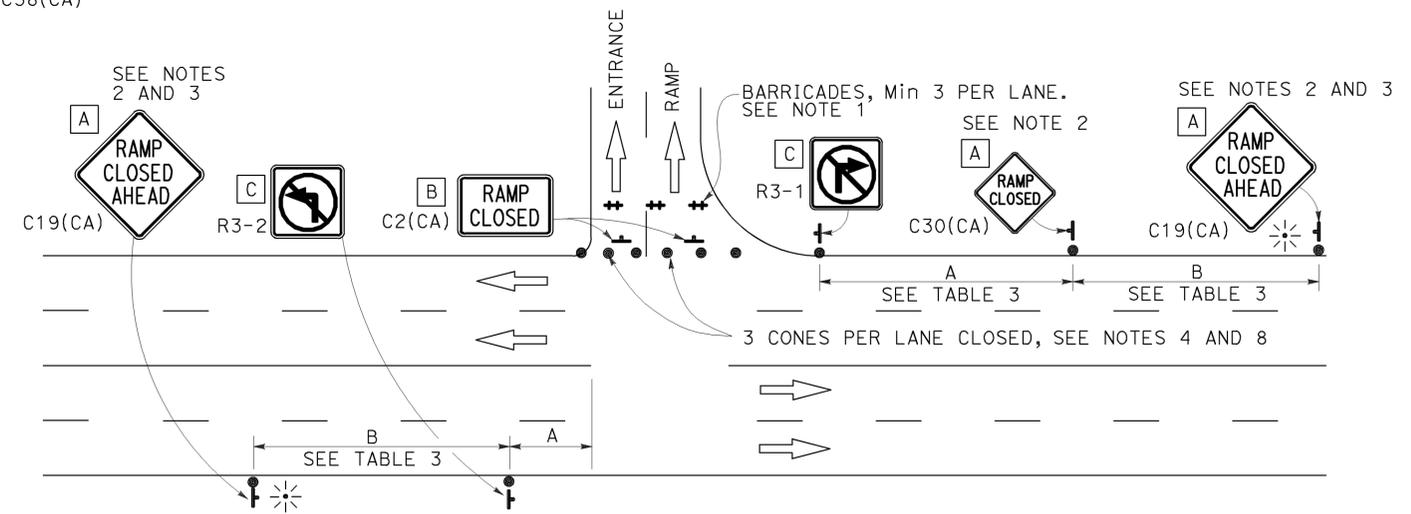
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

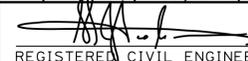
- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning 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

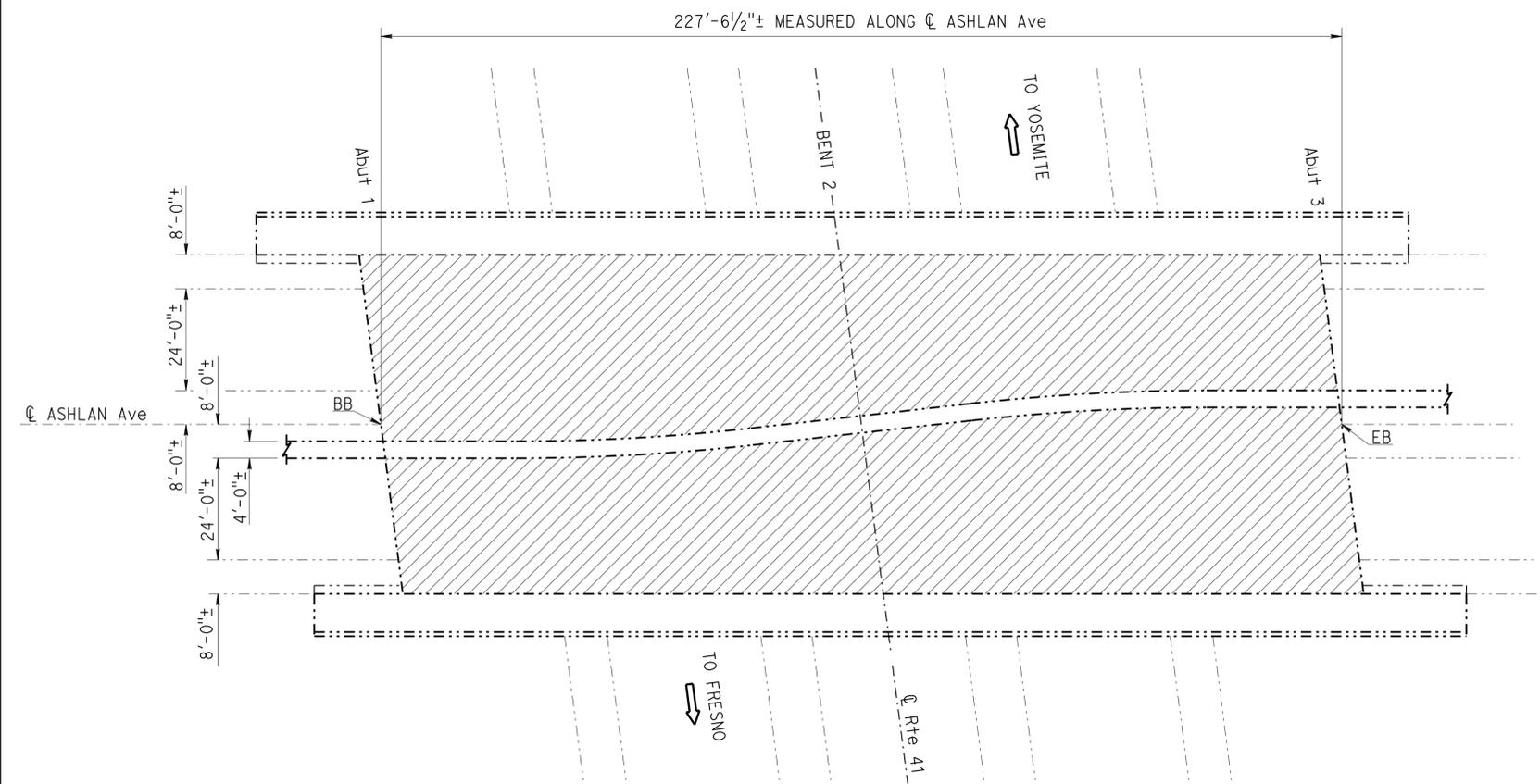
RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	14	26
				2-21-14	DATE
REGISTERED CIVIL ENGINEER				DATE	
3-16-15				PLANS APPROVAL DATE	
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.					

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



ASHLAN AVENUE OVERCROSSING
 Br. No. 42-0277, ROUTE 41, Fre, PM R27.47
 1" = 20'

ASHLAN AVENUE OC	BRIDGE NO 42-0277
QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	17,293 SQFT
TREAT BRIDGE DECK	17,293 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	192 GAL

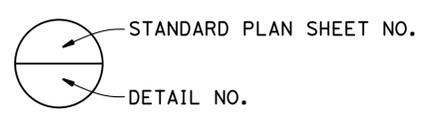
EL PASO AVENUE UC	BRIDGE NO 42-0389L
QUANTITIES	
CLEAN EXPANSION JOINT	114 LF
JOINT SEAL (MR 1/2")	114 LF

INDEX TO PLANS

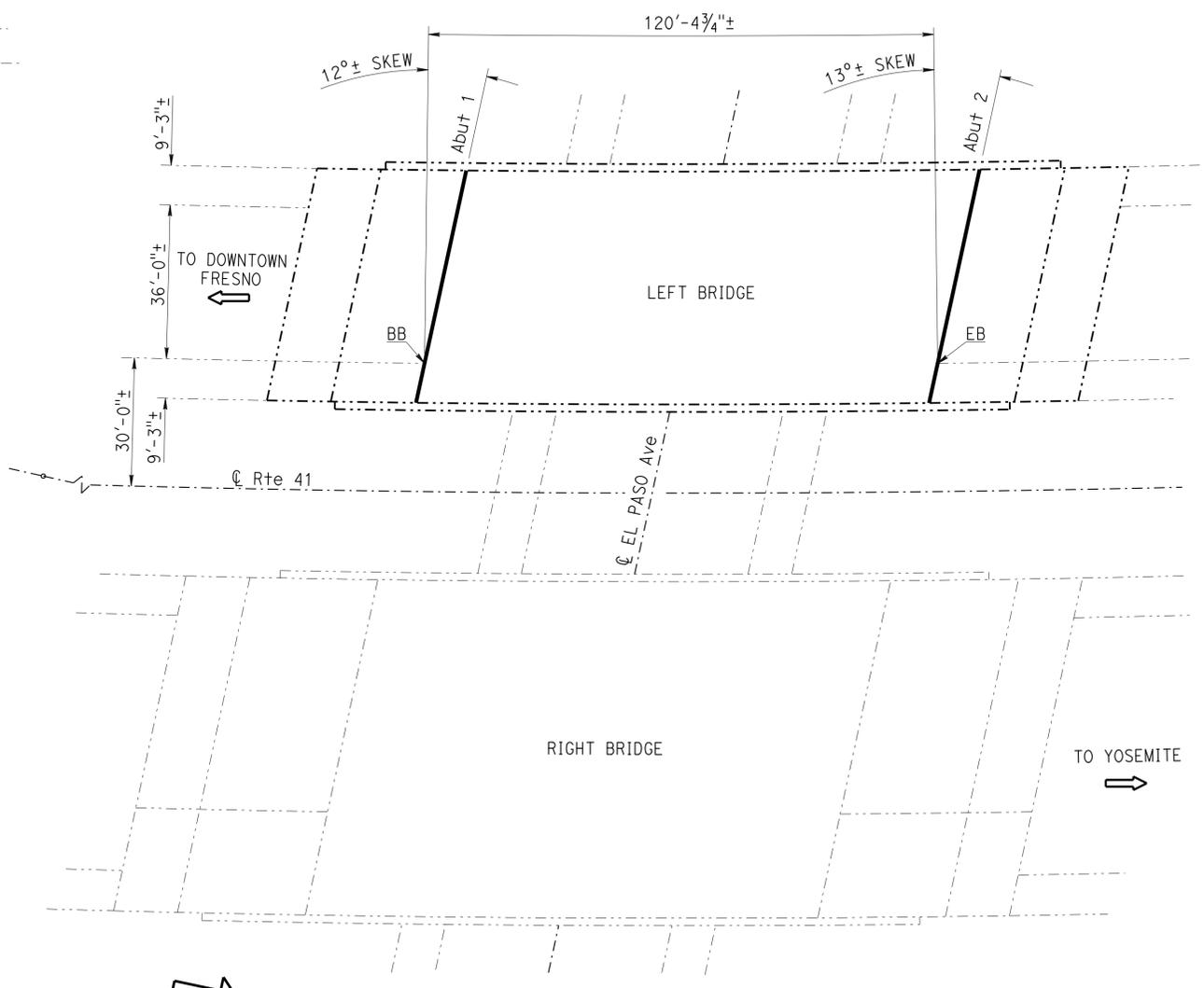
SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	GENERAL PLAN NO. 10
11	GENERAL PLAN NO. 11
12	GENERAL PLAN NO. 12
13	JOINT SEAL DETAILS

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.



EL PASO AVENUE UNDERCROSSING
 Br. No. 42-0389L, ROUTE 41, Fre, PM R31.20
 1" = 20'

NOTES: (APPLY TO THIS SHEET ONLY)

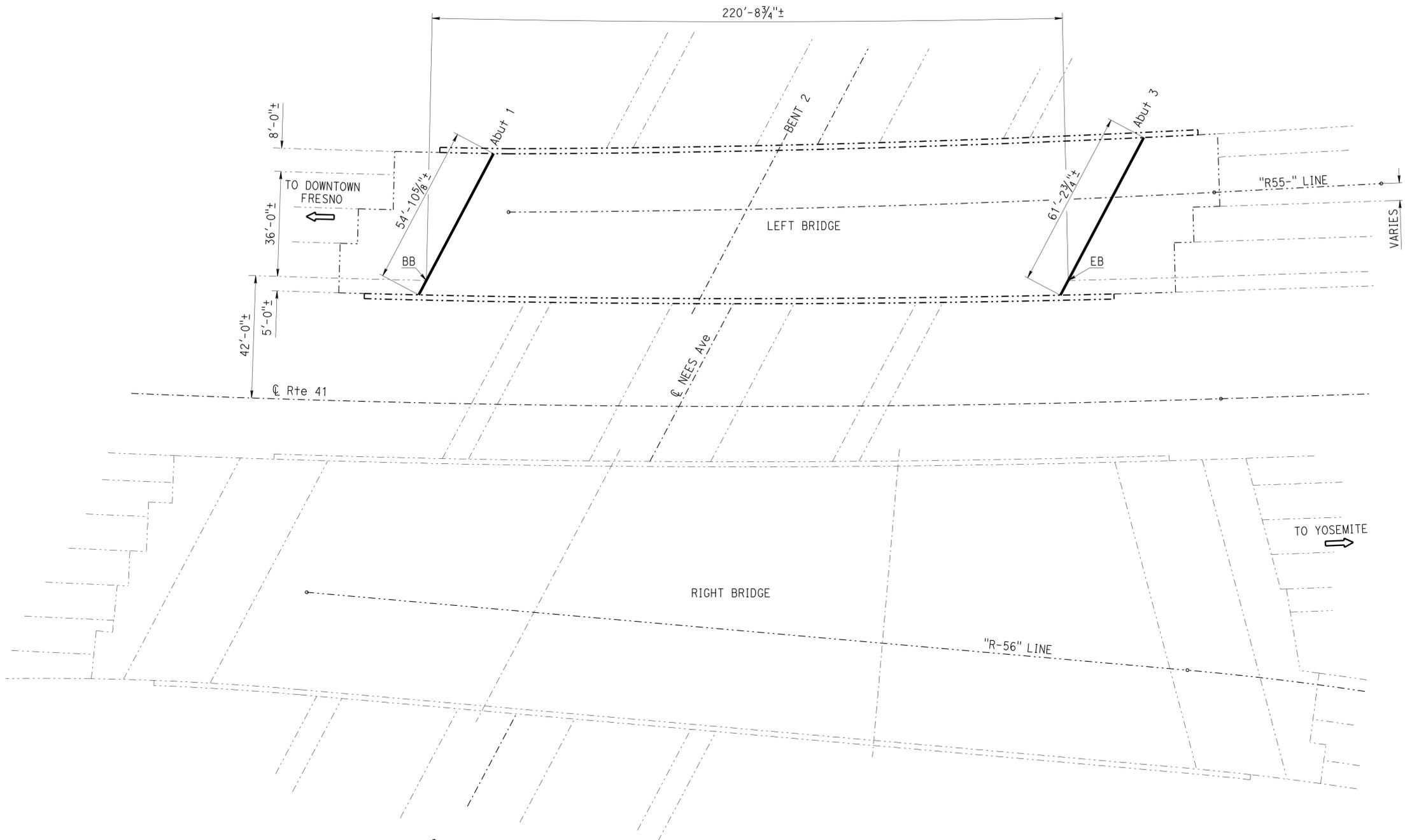
 Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.

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

 DESIGN ENGINEER	DESIGN	BY M. Hashimoto	CHECKED Ali Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Dale Kubochi	CHECKED Ali Nojumi	LAYOUT	BY Dale Kubochi
	QUANTITIES	BY M. Hashimoto	CHECKED Ali Nojumi	SPECIFICATIONS	BY Jennifer Ramirez
				CHECKED M. Hashimoto	PLANS AND SPECS COMPARED Jennifer Ramirez

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.	ROUTES 41, 99, 168, 180 BRIDGES GENERAL PLAN NO. 1
	STRUCTURE MAINTENANCE DESIGN	VARIOUS	
		VARIES	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	15	26
REGISTERED CIVIL ENGINEER			DATE	2-21-14	
PLANS APPROVAL DATE			3-16-15		
<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: (APPLY TO THIS SHEET ONLY)

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



NEES AVENUE UNDERCROSSING

Br. No. 42-0388L, ROUTE 41, Fre, PM R31.45
1" = 20'

NEES AVENUE UC	BRIDGE NO 42-0388L
QUANTITIES	
CLEAN EXPANSION JOINT	118 LF
JOINT SEAL (MR 1")	118 LF

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

DESIGN ENGINEER 2-21-14

DESIGN	BY M. Hashimoto	CHECKED Ali Nojoumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED Ali Nojoumi	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED Ali Nojoumi	SPECIFICATIONS	BY Jennifer Ramirez
				CHECKED M. Hashimoto
				PLANS AND SPECS COMPARED Jennifer Ramirez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

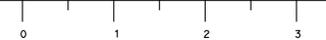
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 41, 99, 168, 180 BRIDGES
GENERAL PLAN NO. 2

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
PROJECT NUMBER & PHASE: 0613000108

CONTRACT NO.: 06-000201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-15 2-21-14	2	13

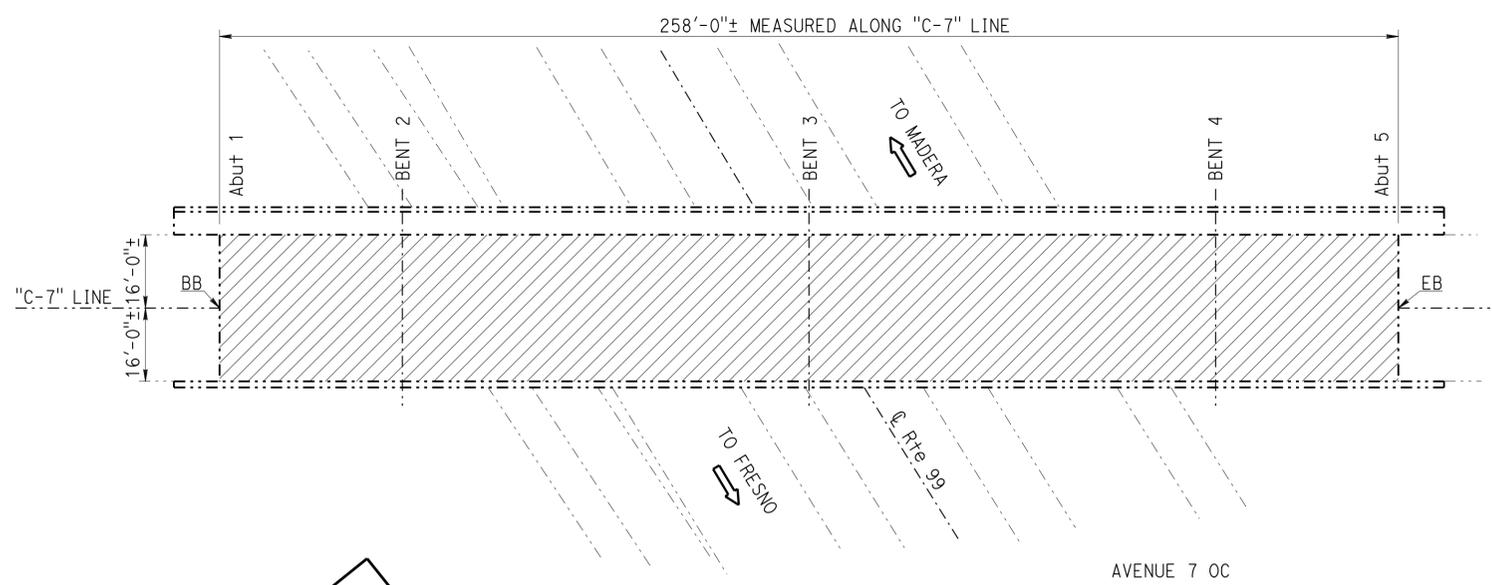
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	16	26

REGISTERED CIVIL ENGINEER: *[Signature]* DATE: 2-21-14

PLANS APPROVAL DATE: 3-16-15

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.



AVENUE 7 OVERCROSSING

Br. No. 41-0064, ROUTE 99, Mad, PM R00.99
1" = 20'

AVENUE 7 OC

BRIDGE NO 41-0064

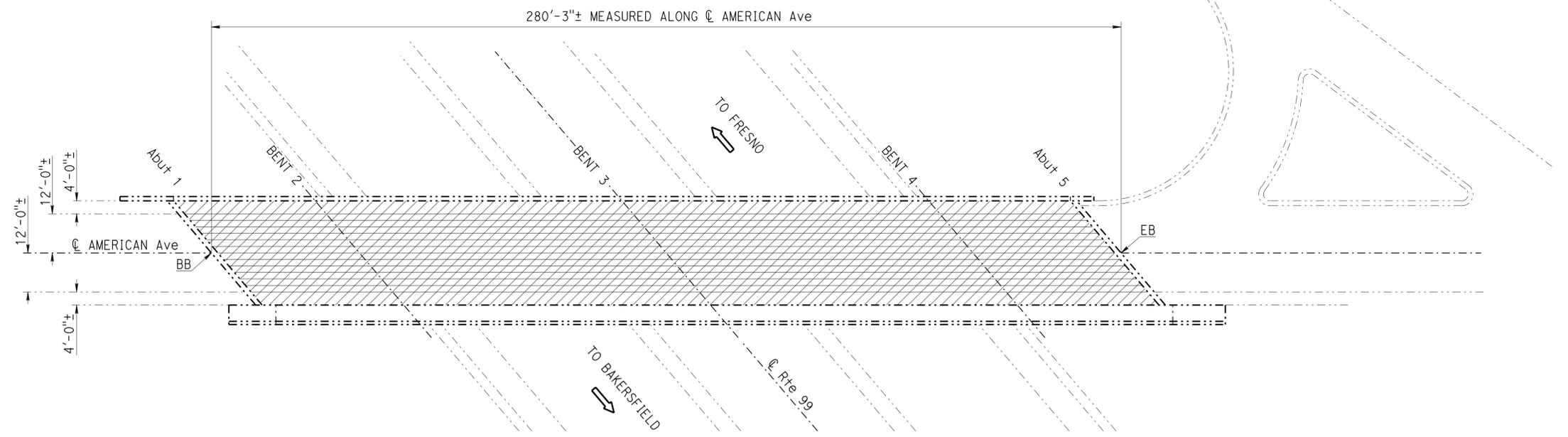
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	8,256	SQFT
TREAT BRIDGE DECK	8,256	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	92	GAL

NOTES: (APPLY TO THIS SHEET ONLY)

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

Indicates limits of remove 1/2"± existing chip seal overlay.



AMERICAN AVENUE OVERCROSSING

Br. No. 42-0205, ROUTE 99, Fre, PM 14.51
1" = 20'

AMERICAN AVENUE OC

BRIDGE NO 42-0205

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	8,968	SQFT
TREAT BRIDGE DECK	8,968	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	100	GAL
REMOVE CHIP SEAL	6,726	SQFT

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

[Signature] 2-21-14
DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Ali Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED Ali Nojumi	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED Ali Nojumi	SPECIFICATIONS	BY Jennifer Ramirez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTES 41, 99, 168, 180 BRIDGES
GENERAL PLAN NO. 3

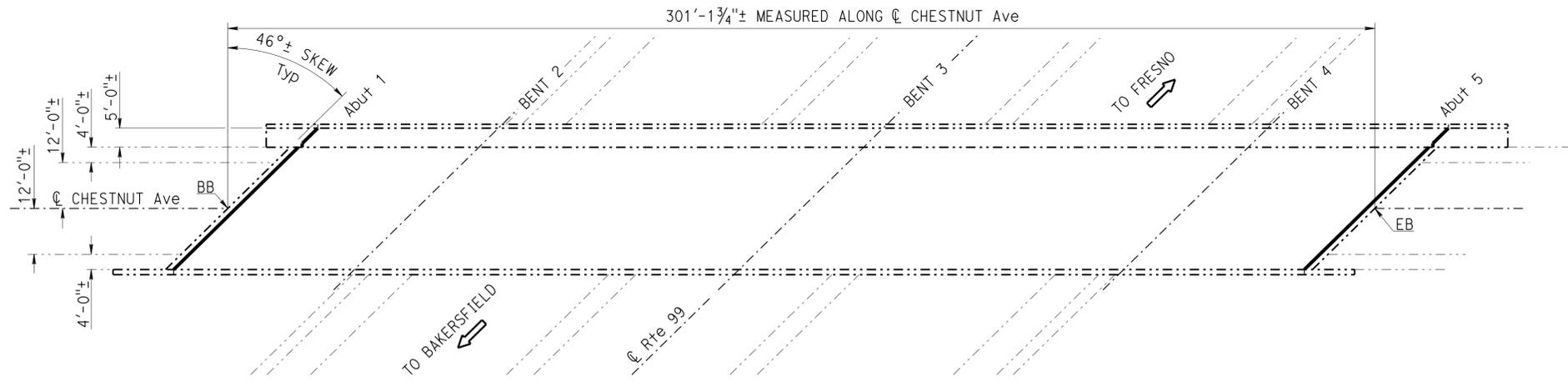
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	17	26

REGISTERED CIVIL ENGINEER DATE 2-21-14

PLANS APPROVAL DATE 3-16-15

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

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CHESTNUT AVENUE OVERCROSSING

Br. No. 42-0206, ROUTE 99, Fre, PM 15.49
1" = 20'

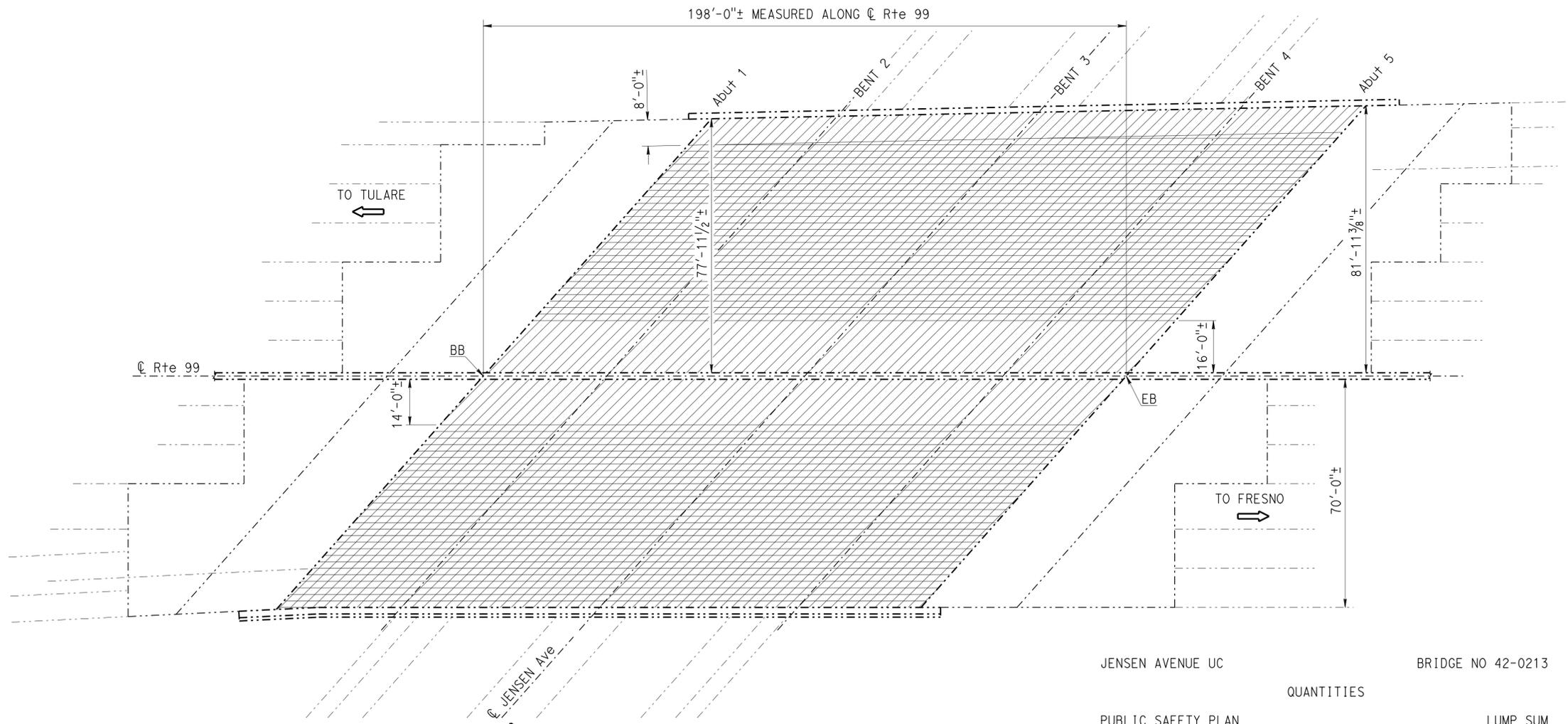
CHESTNUT AVENUE OC

BRIDGE NO 42-0206

QUANTITIES

CLEAN EXPANSION JOINT	110	LF
JOINT SEAL (MR 1")	110	LF

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



JENSEN AVENUE UNDERCROSSING

Br. No. 42-0213, ROUTE 99, Fre, PM 18.54
1" = 20'

JENSEN AVENUE UC

BRIDGE NO 42-0213

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM	
PREPARE CONCRETE BRIDGE DECK SURFACE	29,691	SQFT
TREAT BRIDGE DECK	29,691	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	330	GAL
REMOVE CHIP SEAL	22,957	SQFT

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

Matthew Collee 2-21-14
DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Ali Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED Ali Nojumi	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED Ali Nojumi	SPECIFICATIONS	BY Jennifer Ramirez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 41, 99, 168, 180 BRIDGES GENERAL PLAN NO. 4

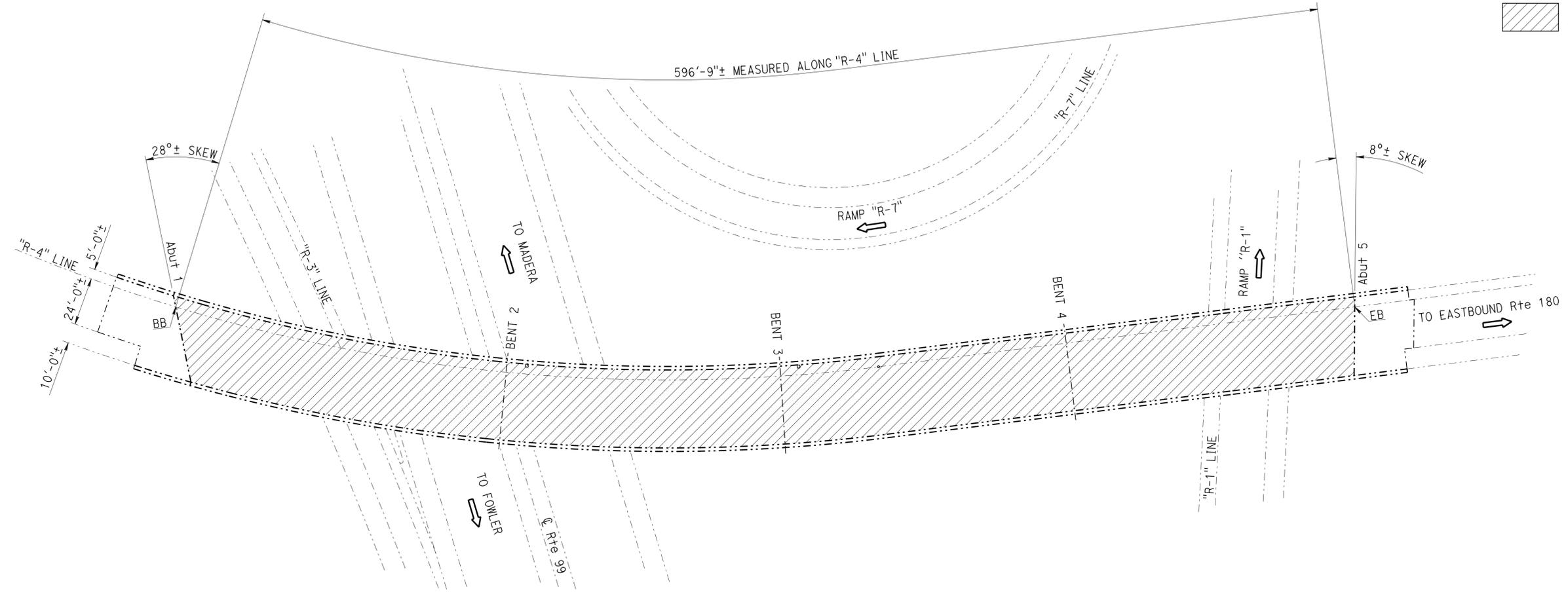


USERNAME => s113541 DATE PLOTTED => 24-MAR-2015 TIME PLOTTED => 10:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	18	26
REGISTERED CIVIL ENGINEER			DATE	2-21-14	
PLANS APPROVAL DATE			3-16-15		
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.					

NOTES: (APPLY TO THIS SHEET ONLY)

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



S99-E180 / E180-S99, 99, N99-W180 SEPARATION

Br. No. 42-0311F, ROUTE 99, Fre, PM 21.73
1" = 30'

S99-E180/E180-S99, 99, N99-W180 SEPARATION BRIDGE NO 42-0311F

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	22,665 SQFT
TREAT BRIDGE DECK	22,665 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	252 GAL

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


DESIGN ENGINEER 2-21-14

DESIGN	BY M. Hashimoto	CHECKED Ali Nojoui	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED Ali Nojoui	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED Ali Nojoui	SPECIFICATIONS	BY Jennifer Ramirez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 41, 99, 168, 180 BRIDGES
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: 0613000108

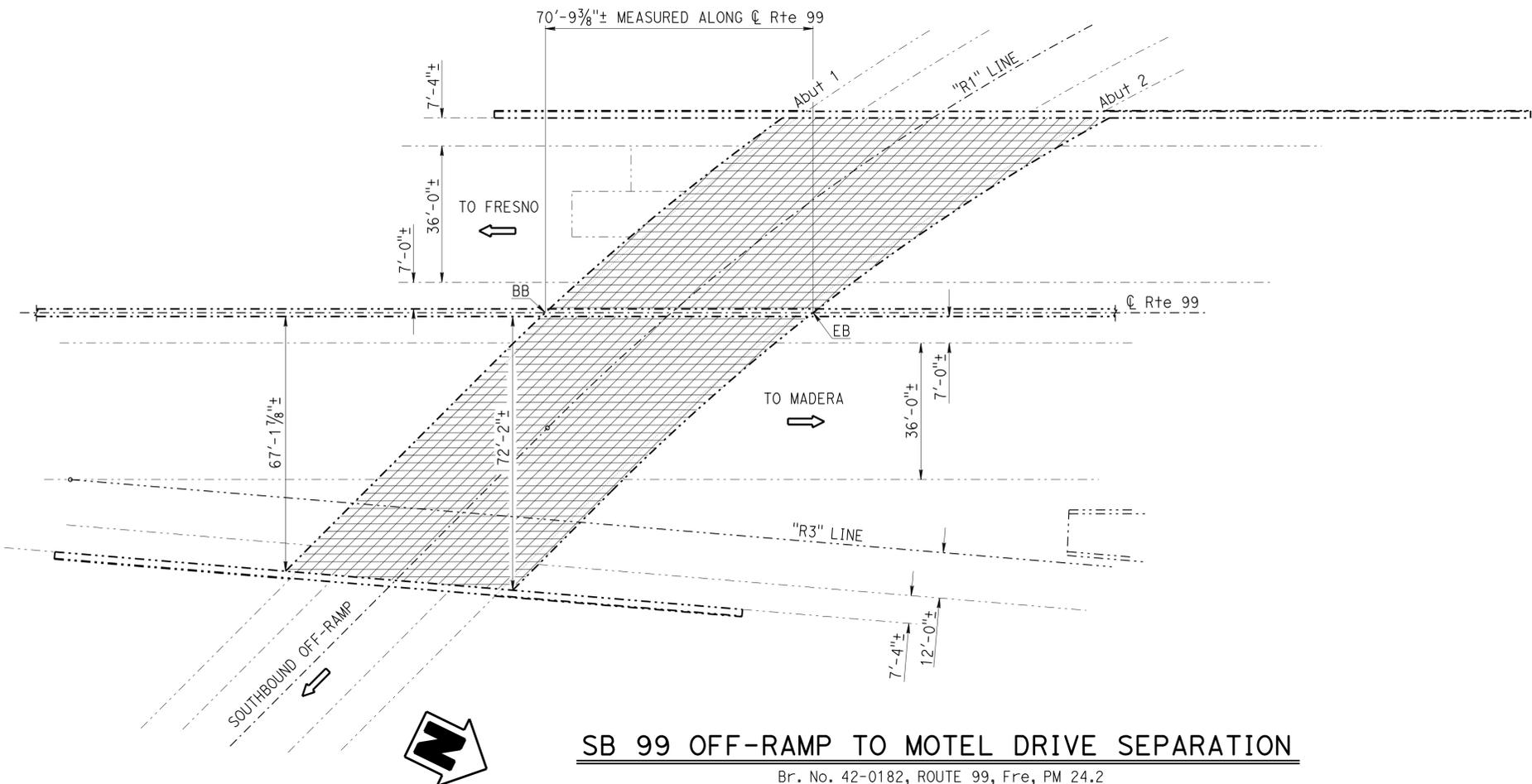
CONTRACT NO.: 06-000201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-16-15 2-21-14	5	13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	19	26

REGISTERED CIVIL ENGINEER: *[Signature]*
 DATE: 2-21-14
 PLANS APPROVAL DATE: 3-16-15
 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.

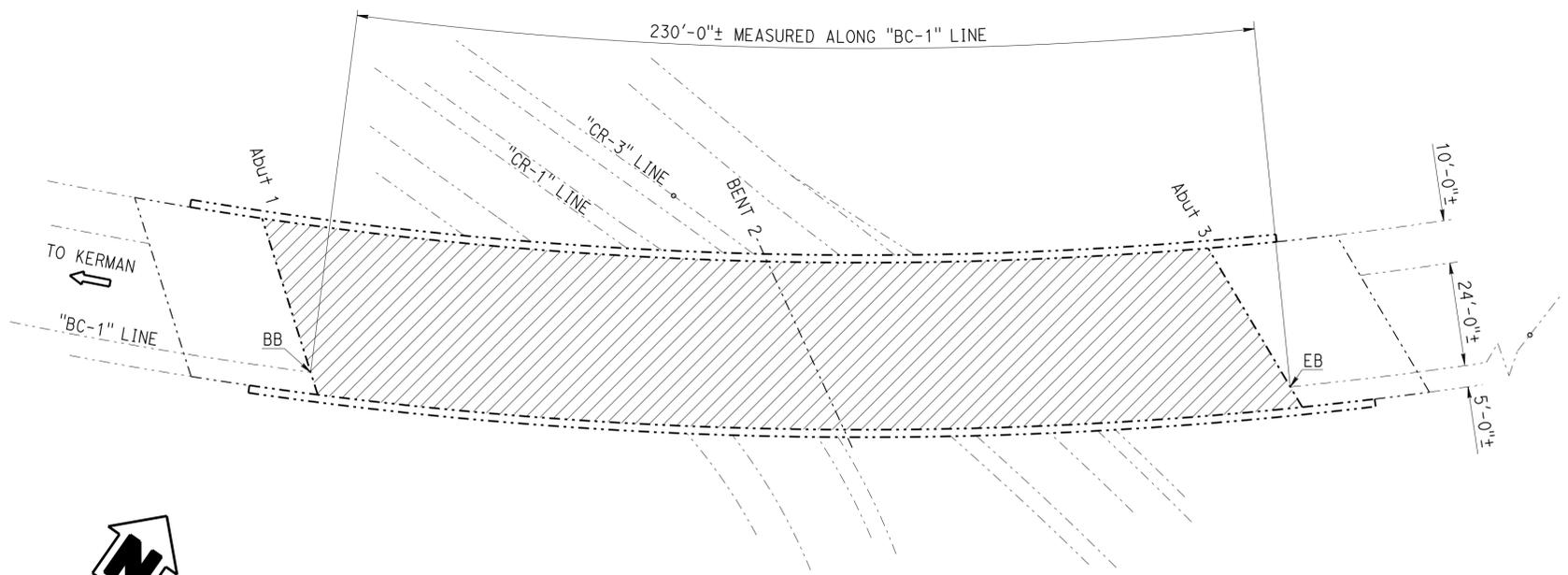


SB 99 OFF-RAMP TO MOTEL DRIVE SEPARATION
 Br. No. 42-0182, ROUTE 99, Fre, PM 24.2
 1" = 20'

SB99 OFF-RAMP TO MOTEL DRIVE SEPARATION	BRIDGE NO 42-0182
QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	8,493 SQFT
TREAT BRIDGE DECK	8,493 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	95 GAL
REMOVE CHIP SEAL	8,493 SQFT

CEDAR AVE RAMP UC (W168-W180 CONN RAMP)	BRIDGE NO 42-0331F
QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	8,970 SQFT
TREAT BRIDGE DECK	8,970 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	100 GAL

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



CEDAR AVENUE RAMP UNDERCROSSING (W168 - W180 CONNECTOR RAMP)
 Br. No. 42-0331F, ROUTE 168, Fre, PM R0.39
 1" = 20'

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

[Signature]
 DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Ali Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED Ali Nojumi	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED Ali Nojumi	SPECIFICATIONS	BY Jennifer Ramirez

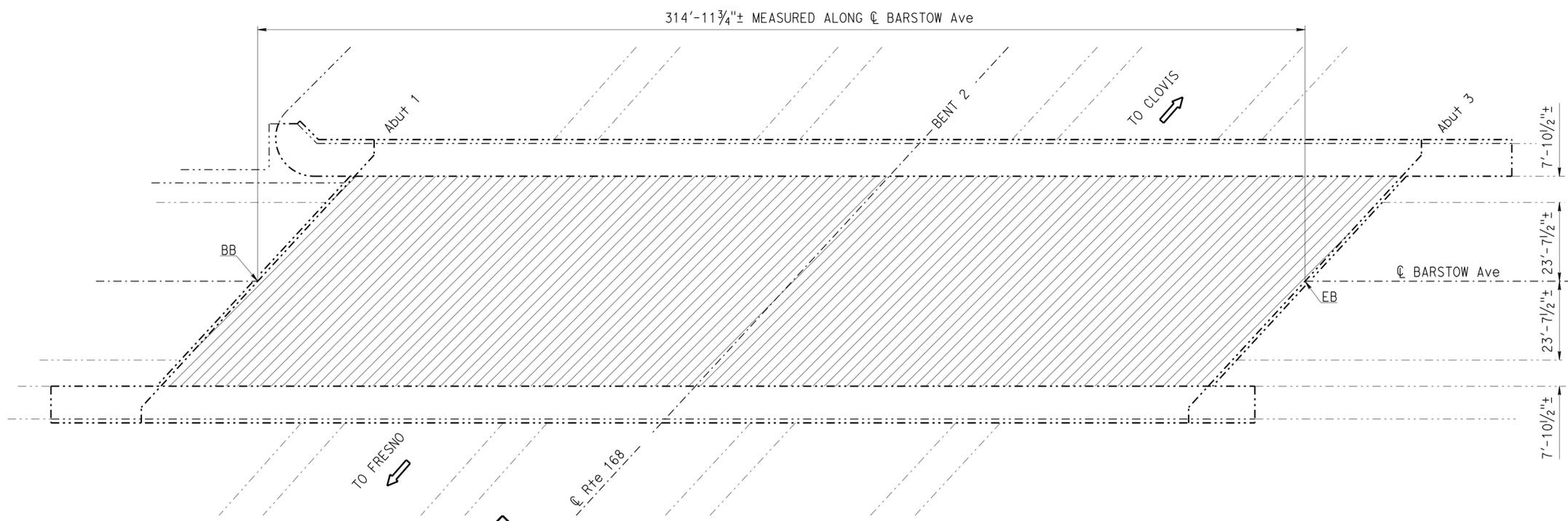
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTES 41, 99, 168, 180 BRIDGES
GENERAL PLAN NO. 6

USERNAME => s113541 DATE PLOTTED => 24-MAR-2015 TIME PLOTTED => 10:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	20	26
			REGISTERED CIVIL ENGINEER	DATE	
			2-21-14		
			PLANS APPROVAL DATE		
			3-16-15		
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.					



BARSTOW AVENUE OVERCROSSING

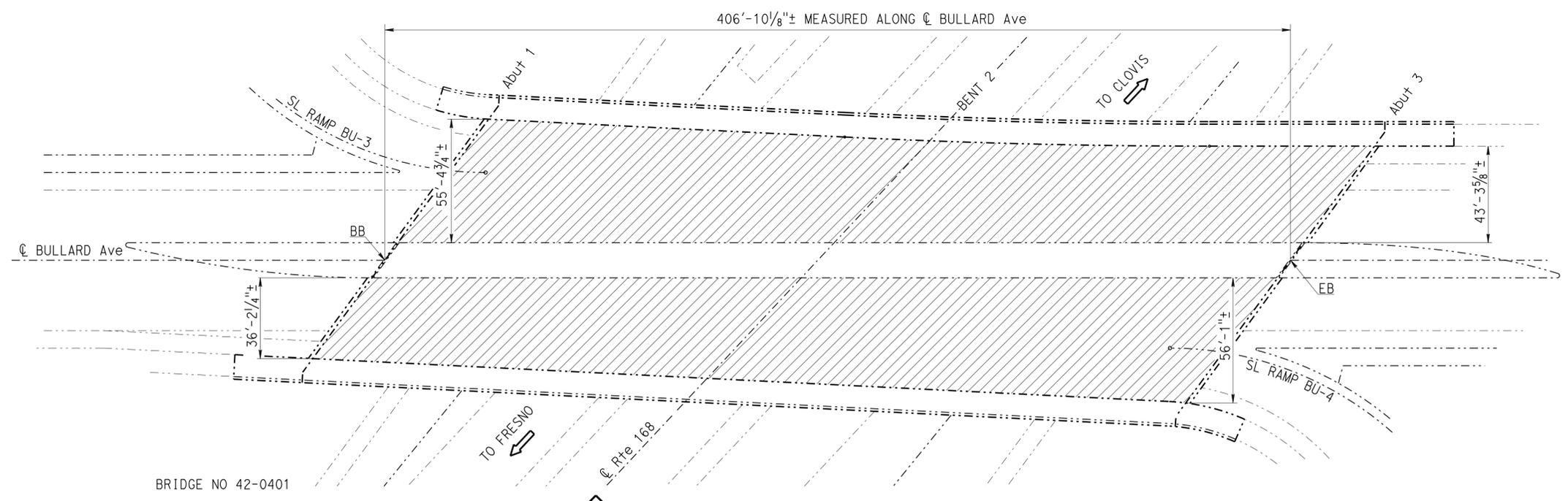
Br. No. 42-0360, ROUTE 168, Fre, PM R4.95
1" = 20'

NOTES: (APPLY TO THIS SHEET ONLY)

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

BARSTOW AVENUE OC BRIDGE NO 42-0360

QUANTITIES		LUMP SUM
PUBLIC SAFETY PLAN		
PREPARE CONCRETE BRIDGE DECK SURFACE	19,844	SQFT
TREAT BRIDGE DECK	19,844	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	221	GAL



BULLARD AVENUE OVERCROSSING

Br. No. 42-0401, ROUTE 168, Fre, PM R5.63
1" = 30'

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

QUANTITIES		LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	38,847	SQFT
TREAT BRIDGE DECK	38,847	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	432	GAL

Matthew Cole
DESIGN ENGINEER 2-21-14

DESIGN	BY M. Hashimoto	CHECKED Ali Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED Ali Nojumi	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED Ali Nojumi	SPECIFICATIONS	BY Jennifer Ramirez
				CHECKED M. Hashimoto
				PLANS AND SPECS COMPARED
				Jennifer Ramirez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTES 41, 99, 168, 180 BRIDGES
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: 0613000108

CONTRACT NO.: 06-000201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-13-15 2-21-14	7	13

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USERNAME => s113541 DATE PLOTTED => 24-MAR-2015 TIME PLOTTED => 10:47

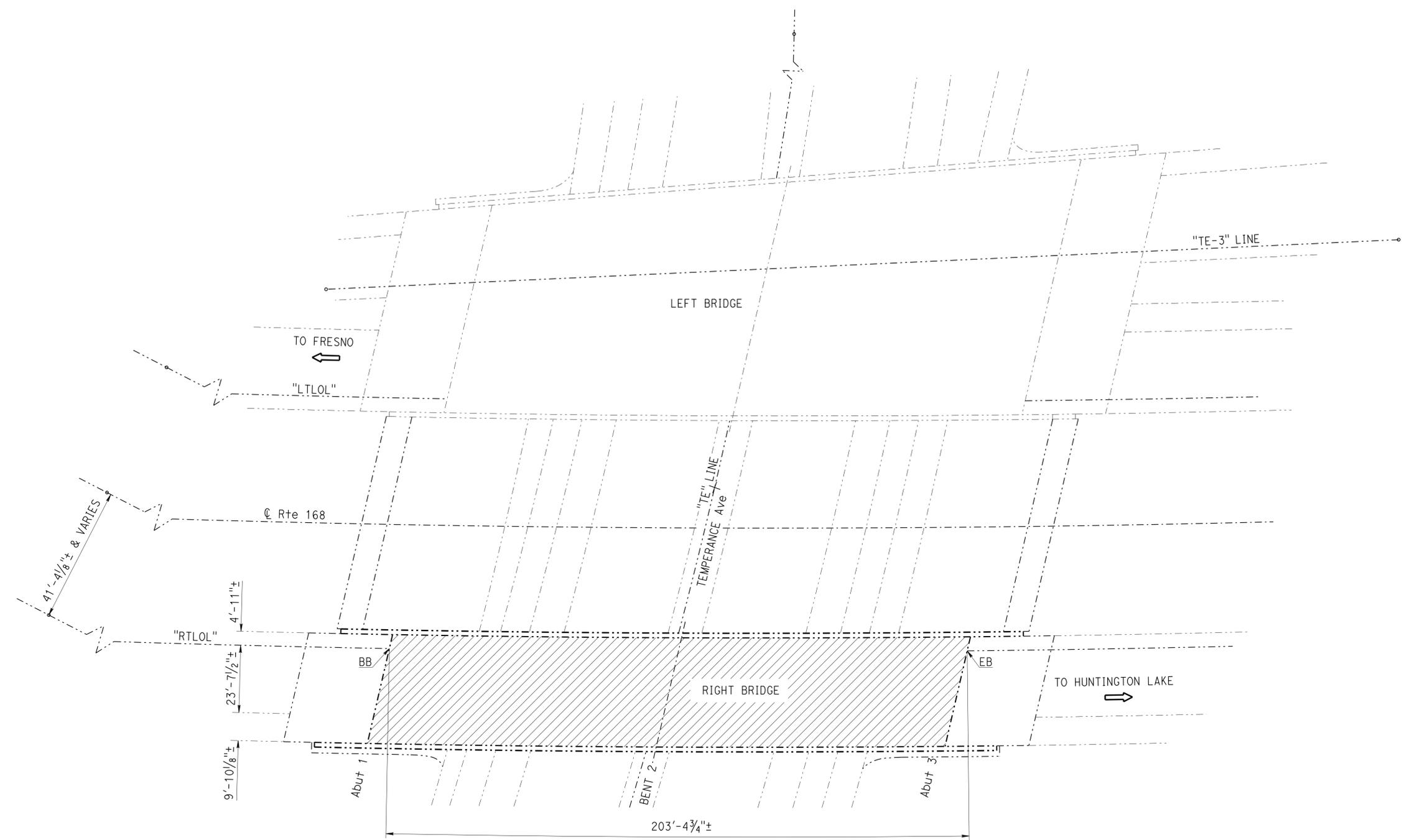
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	22	26
REGISTERED CIVIL ENGINEER			DATE	2-21-14	
PLANS APPROVAL DATE			3-16-15		

REGISTERED PROFESSIONAL ENGINEER
 DIOSDADO ACOPA
 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.

NOTES: (APPLY TO THIS SHEET ONLY)

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



TEMPERANCE AVENUE UNDERCROSSING

Br. No. 42-0410R, ROUTE 168, Fre, PM R9.15
1" = 20'

TEMPERANCE AVENUE UC BRIDGE NO 42-0410R

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	7,809	SQFT
TREAT BRIDGE DECK	7,809	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	87	GAL

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

Matthew W. Lee 2-21-14
DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Ali Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED Ali Nojumi	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED Ali Nojumi	SPECIFICATIONS	BY Jennifer Ramirez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

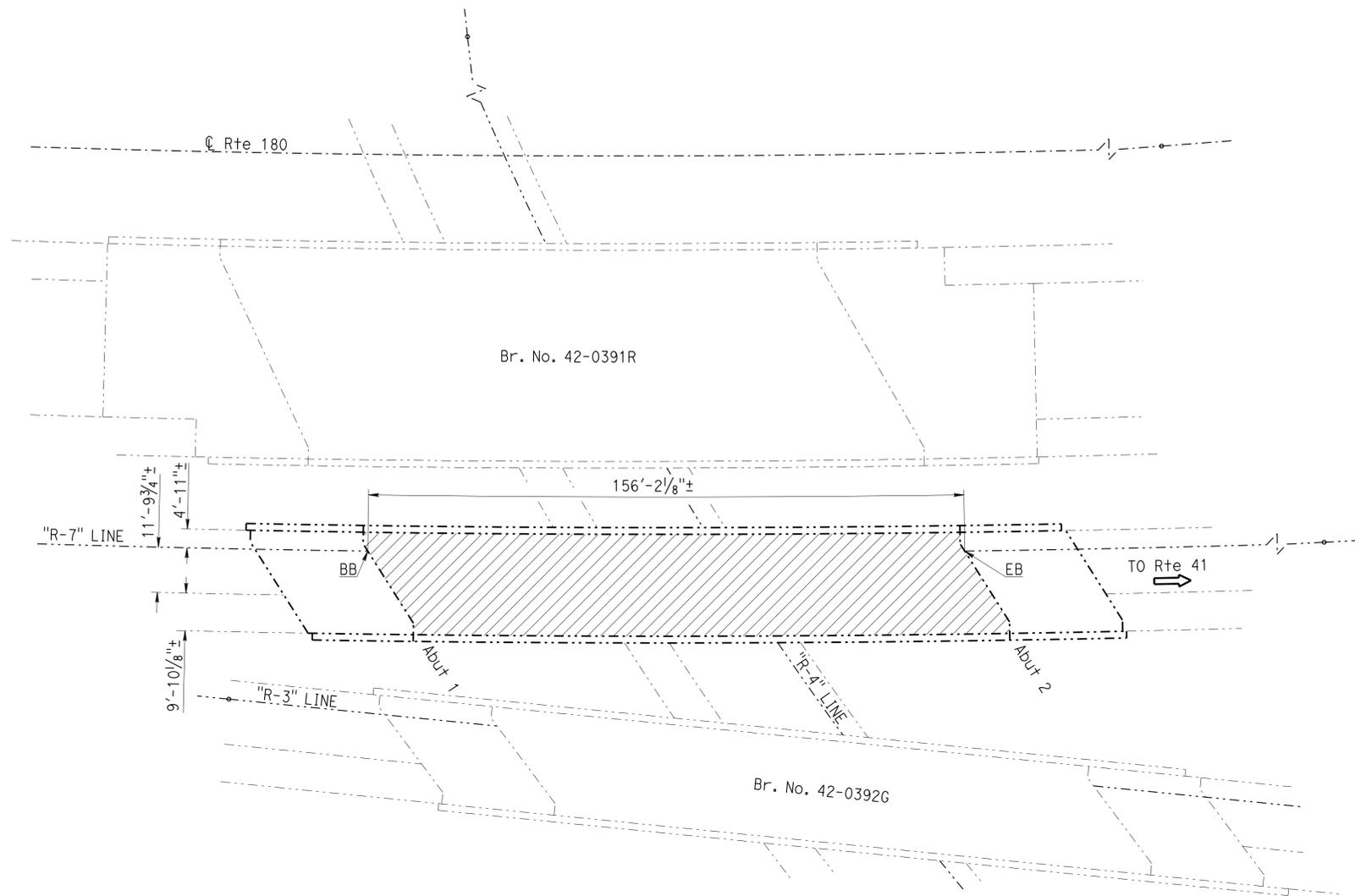
BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTES 41, 99, 168, 180 BRIDGES
GENERAL PLAN NO. 9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	23	26
REGISTERED CIVIL ENGINEER			DATE	2-21-14	
PLANS APPROVAL DATE			3-16-15		
REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No. 52003 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA					
<i>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.</i>					

NOTES: (APPLY TO THIS SHEET ONLY)

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



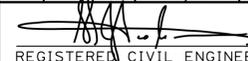
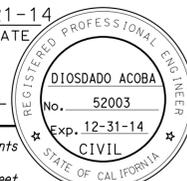
E180-N99 / S99-E180 CONNECTOR OVERCROSSING

Br. No. 42-0391G, ROUTE 180, Fre, PM R56.19
1" = 20'

E180-N99/S99-E180 CONNECTOR OC	BRIDGE NO 42-0391G
QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	4,150 SQFT
TREAT BRIDGE DECK	4,150 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	46 GAL

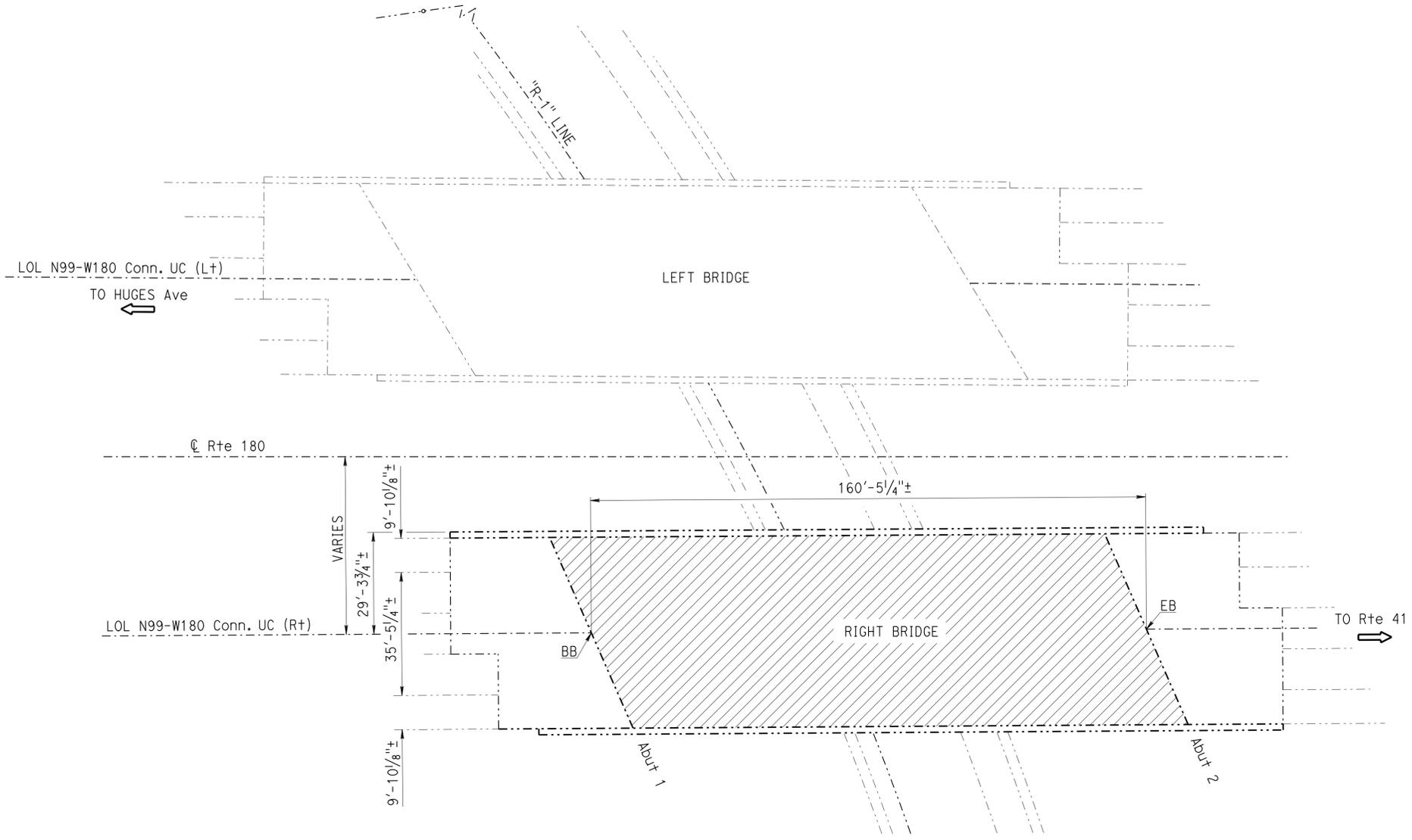
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

 2-21-14 DESIGN ENGINEER	DESIGN	BY M. Hashimoto	CHECKED Ali Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTES 41, 99, 168, 180 BRIDGES GENERAL PLAN NO. 10			
	DETAILS	BY Dale Kubochi	CHECKED Ali Nojumi	LAYOUT	BY Dale Kubochi			CHECKED M. Hashimoto		VARIOUS		
	QUANTITIES	BY M. Hashimoto	CHECKED Ali Nojumi	SPECIFICATIONS	BY Jennifer Ramirez			CHECKED Jennifer Ramirez		VARIES		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)												
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 0613000108		CONTRACT NO.: 06-000201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 9-5-11 2-21-14	SHEET OF 10 13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	24	26
			2-21-14	DATE	
REGISTERED CIVIL ENGINEER			DATE		
3-16-15			PLANS APPROVAL DATE		
					
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NOTES: (APPLY TO THIS SHEET ONLY)

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



W180 / N99-W180 CONNECTOR UNDERCROSSING

Br. No. 42-0312R, ROUTE 180, Fre, PM R56.42
1" = 20'

W180/N99-W180 CONNECTOR UC	BRIDGE NO 42-0312R
QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	8,844 SQFT
TREAT BRIDGE DECK	8,844 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	98 GAL

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

 2-21-14
DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Ali Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED Ali Nojumi	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED Ali Nojumi	SPECIFICATIONS	BY Jennifer Ramirez
				CHECKED M. Hashimoto
				PLANS AND SPECS COMPARED Jennifer Ramirez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTES 41, 99, 168, 180 BRIDGES
GENERAL PLAN NO. 11

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
PROJECT NUMBER & PHASE: 0613000108

CONTRACT NO.: 06-000201

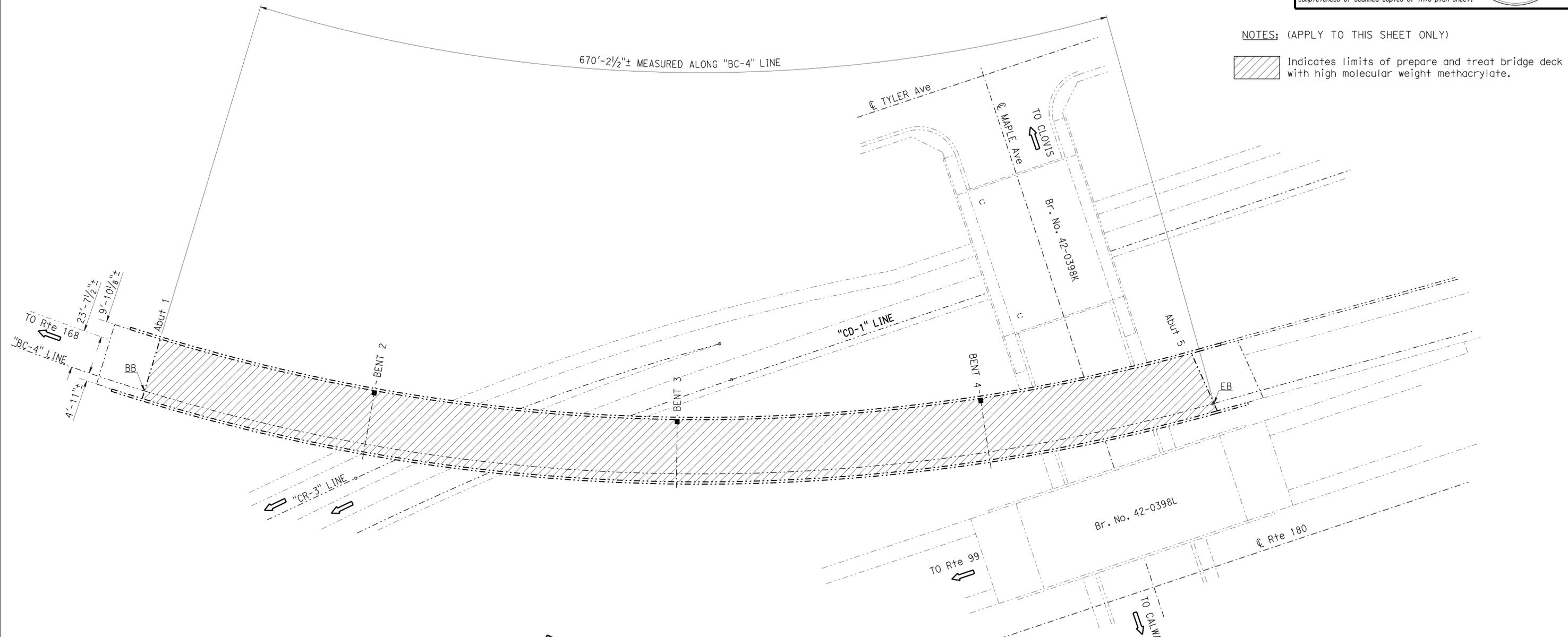
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-16-15 2-21-14	11	13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre, Mad	41, 99, 168, 180	Var	25	26
REGISTERED CIVIL ENGINEER			DATE	2-21-14	
PLANS APPROVAL DATE			3-16-15		

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

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NOTES: (APPLY TO THIS SHEET ONLY)

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NOTE:
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QUANTITIES	
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	25,729 SQFT
TREAT BRIDGE DECK	25,729 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	286 GAL

 DESIGN ENGINEER	DESIGN BY M. Hashimoto DETAILS BY Dale Kubochi QUANTITIES BY M. Hashimoto	CHECKED Ali Nojumi CHECKED Ali Nojumi CHECKED Ali Nojumi	LOAD FACTOR DESIGN LAYOUT SPECIFICATIONS	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD BY Dale Kubochi BY Jennifer Ramirez	CHECKED M. Hashimoto PLANS AND SPECS COMPARED Jennifer Ramirez
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STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES

ROUTES 41, 99, 168, 180 BRIDGES
GENERAL PLAN NO. 12

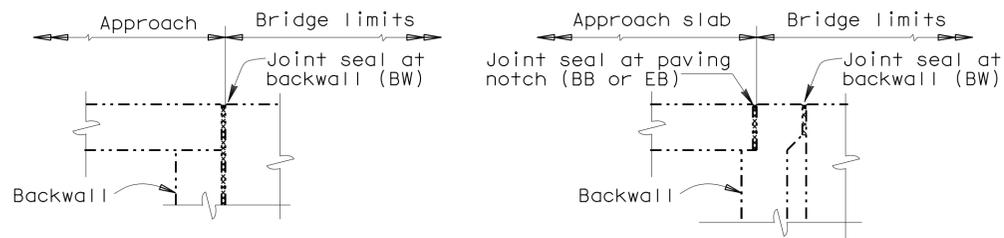
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre. Mad	41,99, 168,180	Var	26	26
			2-21-14	DATE	
REGISTERED CIVIL ENGINEER			DATE		
3-16-15			PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No. 52003 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA					
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JOINT SEAL TABLE

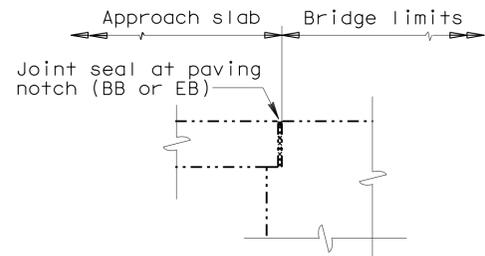
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
EL PASO AVENUE UNDERCROSSING	42-0389L	Abut 1	BB	1/2	57	NO	12
		Abut 2	EB	1/2	57	NO	12
NEES AVENUE UNDERCROSSING	42-0388L	Abut 1	BW	1	56	YES	6
		Abut 3	BW	1	62	YES	6
CHESTNUT AVENUE OVERCROSSING	42-0206	Abut 1	BW	1	55	NO	12
		Abut 5	BW	1	55	NO	12

LEGEND:

- BW - Abutment backwall joint
- BB - Paving Notch at beginning of bridge
- EB - Paving Notch at end of bridge

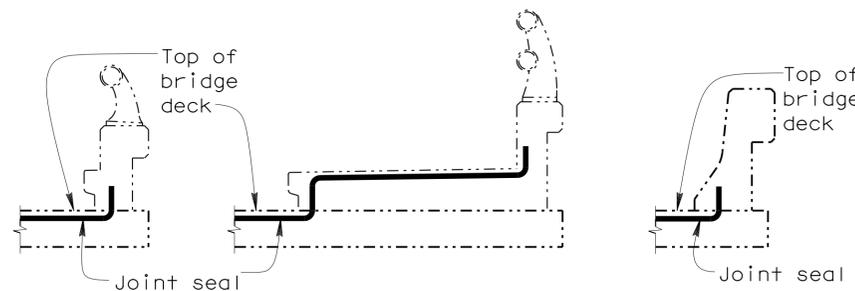


ABUTMENT WITH BACKWALL



DIAPHRAGM ABUTMENT

JOINT SEAL LOCATION



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

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

The following notes apply to JOINT SEAL TYPE B:

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

The following notes apply to JOINT SEAL TYPE A:

- 1) Install Type A joint seal 3" up into rail on the low side of deck where joint matches curb or rail joint.
- 2) For details not shown, see B6-21

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

DESIGN	BY M. Hashimoto	CHECKED Ali Nojoumi
DETAILS	BY Dale Kubochi	CHECKED Ali Nojoumi
QUANTITIES	BY M. Hashimoto	CHECKED Ali Nojoumi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 41, 99, 168, 180 BRIDGES

JOINT SEAL DETAILS