

INDEX OF PLANS

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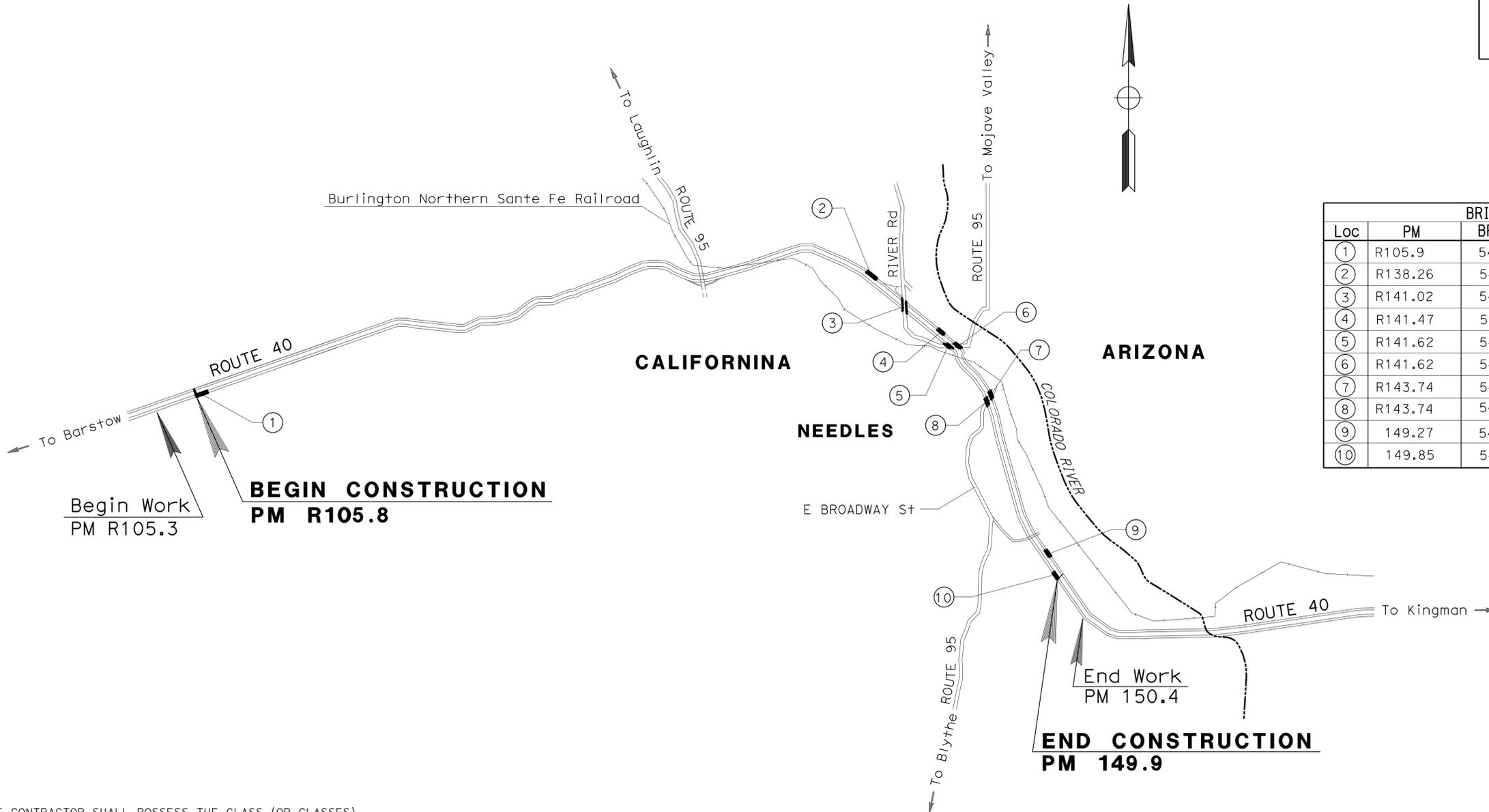
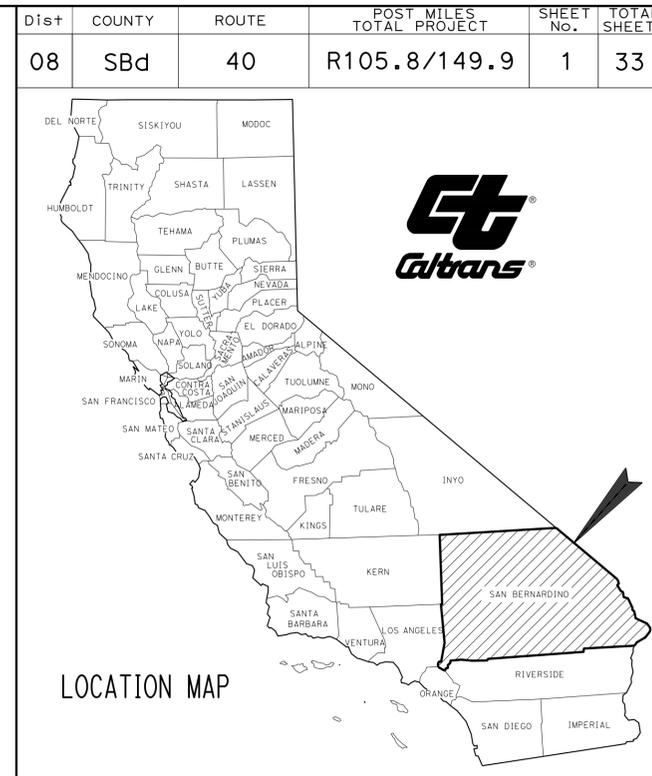
INDEX OF STRUCTURE PLANS

SHEET No.	DESCRIPTION
22-28	GENERAL PLANS
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SAN BERNARDINO COUNTY
IN AND NEAR NEEDLES AT VARIOUS LOCATIONS
FROM WATSON WASH TO BEAL WASH

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



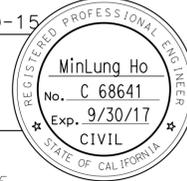
BRIDGE WORK LOCATIONS			
Loc	PM	BRIDGE No.	NAME
①	R105.9	54 1282R	WATSON WASH
②	R138.26	54 0700L	BUZZARD WASH
③	R141.02	54 0808	RIVER ROAD OC
④	R141.47	54 0811L	"S" STREET CHANNEL
⑤	R141.62	54 0812R	NEEDLES HIGHWAY UC
⑥	R141.62	54 0812L	NEEDLES HIGHWAY UC
⑦	R143.74	54 0819L	Route 40/95 SEPARATION
⑧	R143.74	54 0819R	Route 40/95 SEPARATION
⑨	149.27	54 0503L	PALO VERDE WASH
⑩	149.85	54 0502R	BEAL WASH

PROJECT MANAGER
Mike Ristic
 DESIGN MANAGER
MinLung Ho

BEGIN CONSTRUCTION
 PM R105.8

END CONSTRUCTION
 PM 149.9

PROJECT ENGINEER DATE 12-29-15
 REGISTERED CIVIL ENGINEER
DECEMBER 29, 2015
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



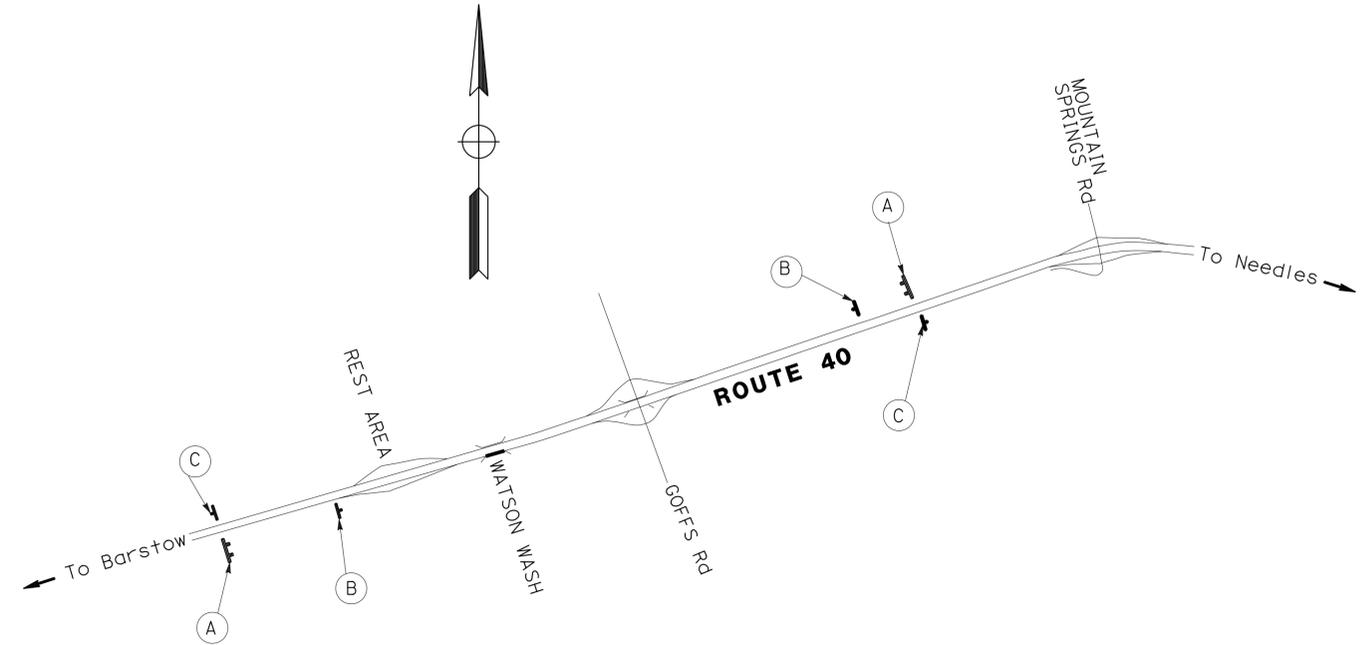
CONTRACT No.	08-1F6304
PROJECT ID	0815000005

DATE PLOTTED => 06-JAN-2016 TIME PLOTTED => 1:54:54
 LAST REVISION 12-29-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MARIO L AMANCIO
 CALCULATED/DESIGNED BY: PATTI BARTOLI
 CHECKED BY: DEAN D TO
 REVISIONS: REVISED BY: DATE REVISED:

NOTE:
 LOCATIONS AND POSITIONS OF THE CONSTRUCTION AREA SIGNS ARE APPROXIMATE.
 THE EXACT LOCATIONS AND POSITIONS WILL BE DETERMINED BY THE ENGINEER.



LOCATION 1

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (CS=1 AND CS-2)

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)		C40	108" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 6"	4
(B)	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	4
(C)	G20-2	C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	4
(D)	G20-1	C11	90" x 48"	ROAD WORK NEXT 12 MILES	2 - 6" x 6"	2
(E)	W20-1	C23	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	14

PORTABLE CHANGEABLE MESSAGE SIGNS

(EA)
6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	2	33

12-29-15
 REGISTERED CIVIL ENGINEER DATE
 DEAN D TO
 No. C81698
 Exp. 3-31-16
 CIVIL
 STATE OF CALIFORNIA

12-29-15
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONSTRUCTION AREA SIGNS
 NO SCALE **CS-1**

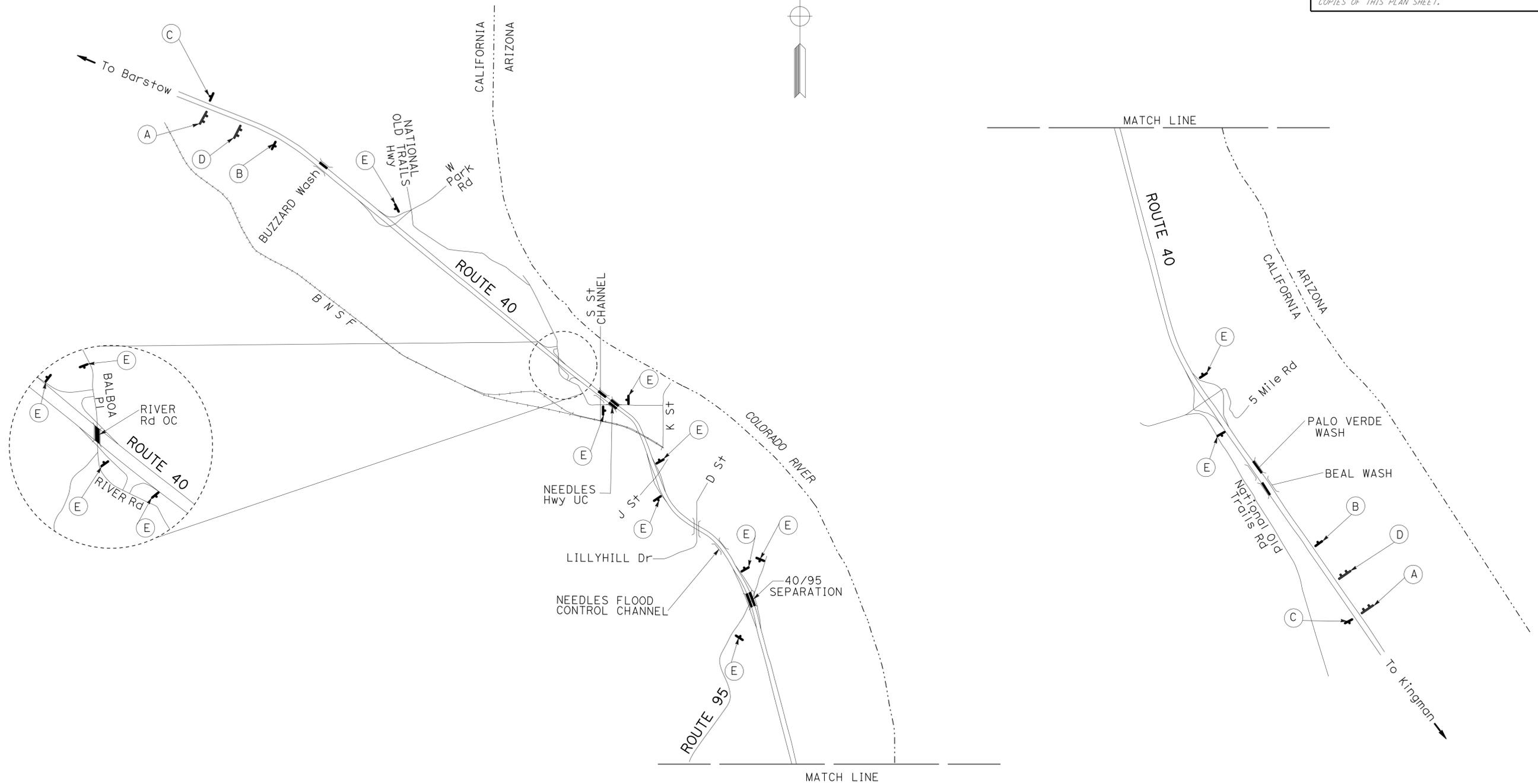
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION DATE PLOTTED => 06-JAN-2016 12-29-15 TIME PLOTTED => 15:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	3	33

REGISTERED CIVIL ENGINEER **Dean D To** DATE 12-29-15
 REGISTERED CIVIL ENGINEER No. C81698 Exp. 3-31-16
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 CIVIL
 12-29-15
 PLANS APPROVAL DATE

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

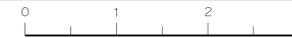


LOCATIONS 2 - 10

CONSTRUCTION AREA SIGNS
NO SCALE **CS-2**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	MARIO L AMANCIO	CHECKED BY	PATTI BARTOLI
TRAFFIC DESIGN		DEAN D TO	DEAN D TO
			DATE REVISION



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MARIO L AMANCIO
 PATTI BARTOLI DEAN D TO
 REVISOR BY DATE
 CALCULATED/DESIGNED BY CHECKED BY

LEGEND:

⇨ DIRECTION OF DETOUR

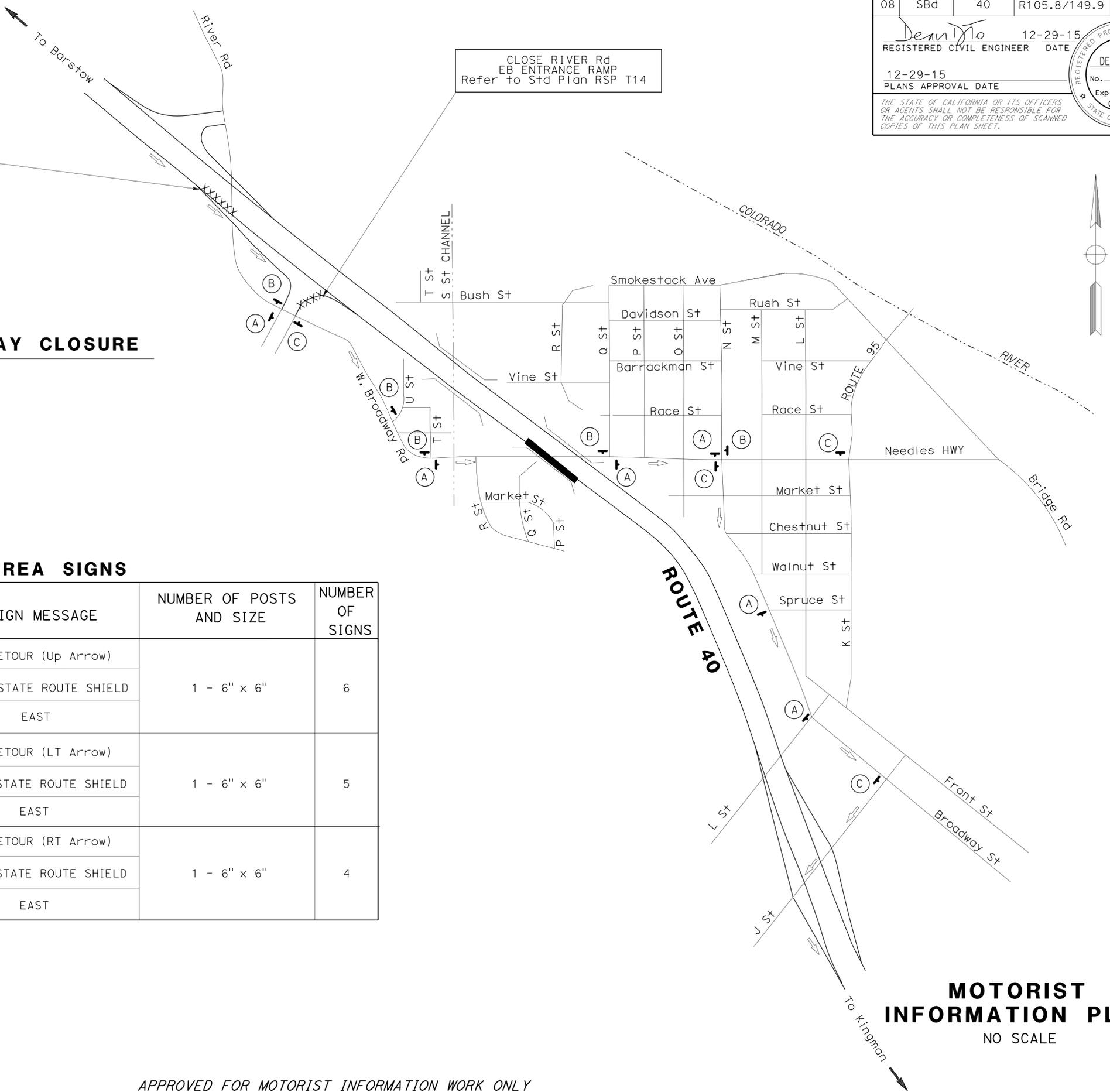
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	4	33

REGISTERED CIVIL ENGINEER: *Dean D To* DATE: 12-29-15
 REGISTERED PROFESSIONAL ENGINEER: DEAN D TO No. C81698 Exp. 3-31-16 CIVIL
 PLANS APPROVAL DATE: 12-29-15
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.

ROUTE 40 EASTBOUND FREEWAY CLOSURE
LOCATION 5
BR. No. 54-0812 R

CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A		SC3	48" x 18"	DETOUR (Up Arrow)	1 - 6" x 6"	6
		G27-2(40)	21" x 18"	INTERSTATE ROUTE SHIELD		
	M3-2		48" x 18"	EAST		
B		M4-10(LT)	48" x 18"	DETOUR (LT Arrow)	1 - 6" x 6"	5
		G27-2(40)	21" x 18"	INTERSTATE ROUTE SHIELD		
	M3-2		48" x 18"	EAST		
C		M4-10(RT)	48" x 18"	DETOUR (RT Arrow)	1 - 6" x 6"	4
		G27-2(40)	21" x 18"	INTERSTATE ROUTE SHIELD		
	M3-2		48" x 18"	EAST		



MOTORIST INFORMATION PLAN
 NO SCALE

MI-1

APPROVED FOR MOTORIST INFORMATION WORK ONLY

LAST REVISION DATE PLOTTED => 06-JAN-2016 12-29-15 TIME PLOTTED => 15:54

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: MARIO L AMANCIO
 TRAFFIC DESIGN

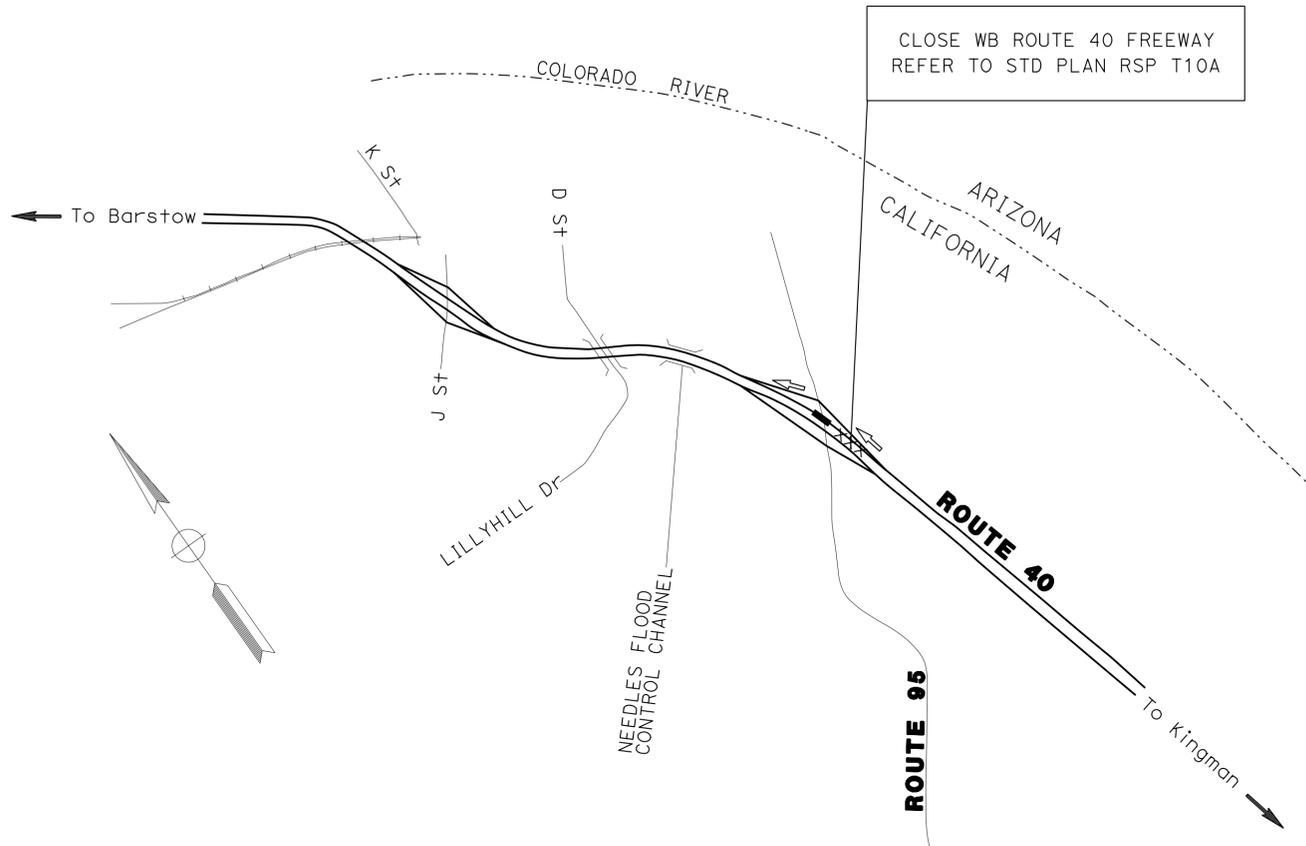
LEGEND:

⇨ DIRECTION OF DETOUR

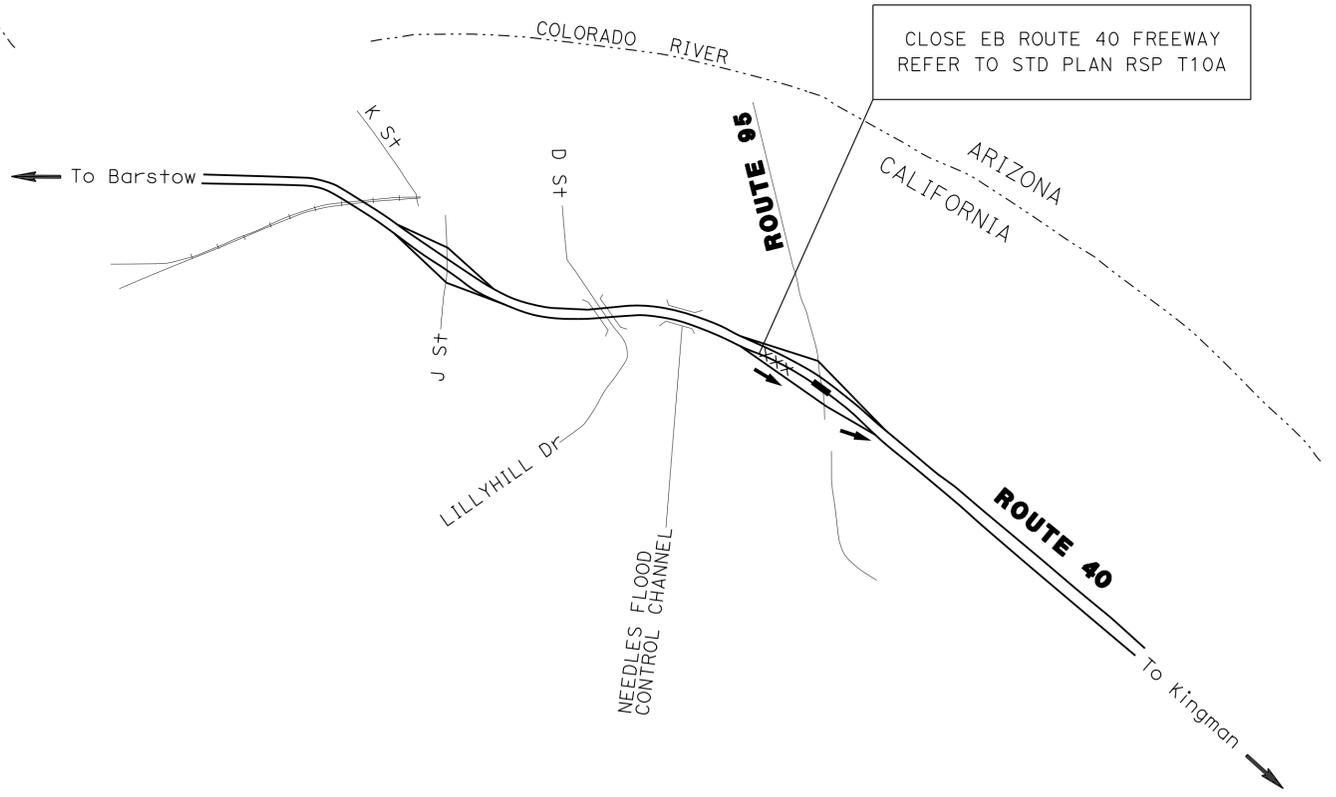
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	6	33
		12-29-15		REGISTERED CIVIL ENGINEER DATE	
		12-29-15		PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
 DEAN D TO
 No. C81698
 Exp. 3-31-16
 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.



WESTBOUND ROUTE 40 DETOUR
LOCATION 7
BR. No. 54-0819 L

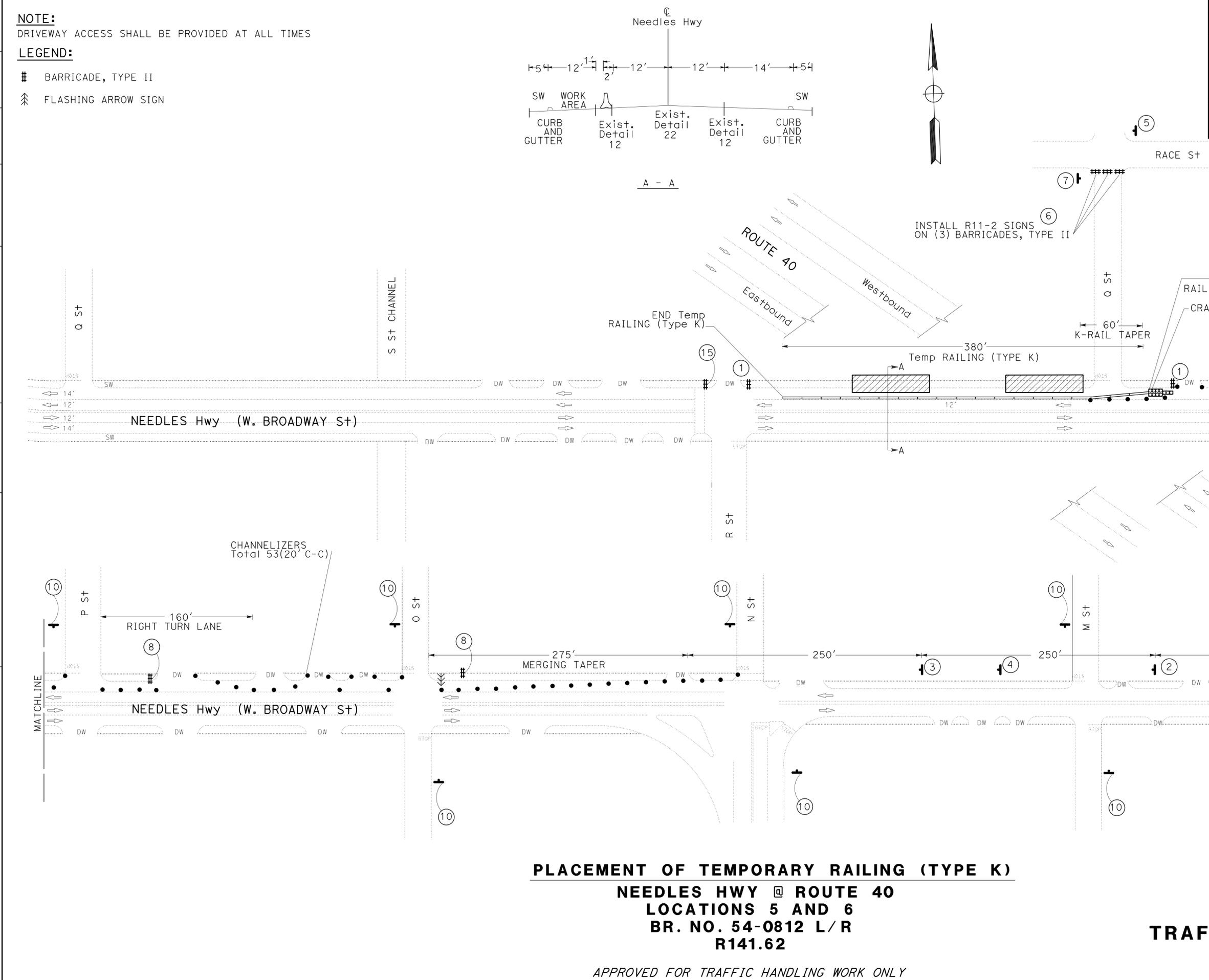


EASTBOUND ROUTE 40 DETOUR
LOCATION 8
BR. No. 54-0819 R

MOTORIST INFORMATION PLAN
 NO SCALE
MI-3

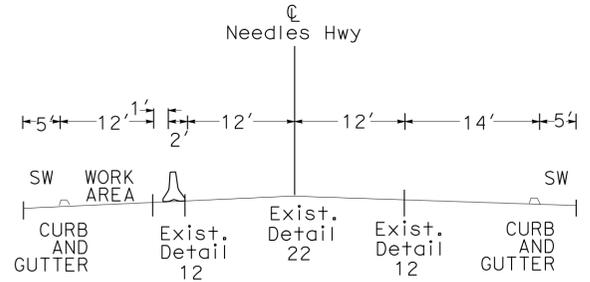
APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN



NOTE:
 DRIVEWAY ACCESS SHALL BE PROVIDED AT ALL TIMES

LEGEND:
 # BARRICADE, TYPE II
 ⬆ FLASHING ARROW SIGN



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	7	33

12-29-15
 REGISTERED CIVIL ENGINEER DATE
 DEAN D TO
 No. C81698
 Exp. 3-31-16
 CIVIL
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA

12-29-15
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**PLACEMENT OF TEMPORARY RAILING (TYPE K)
 NEEDLES HWY @ ROUTE 40
 LOCATIONS 5 AND 6
 BR. NO. 54-0812 L/R
 R141.62**

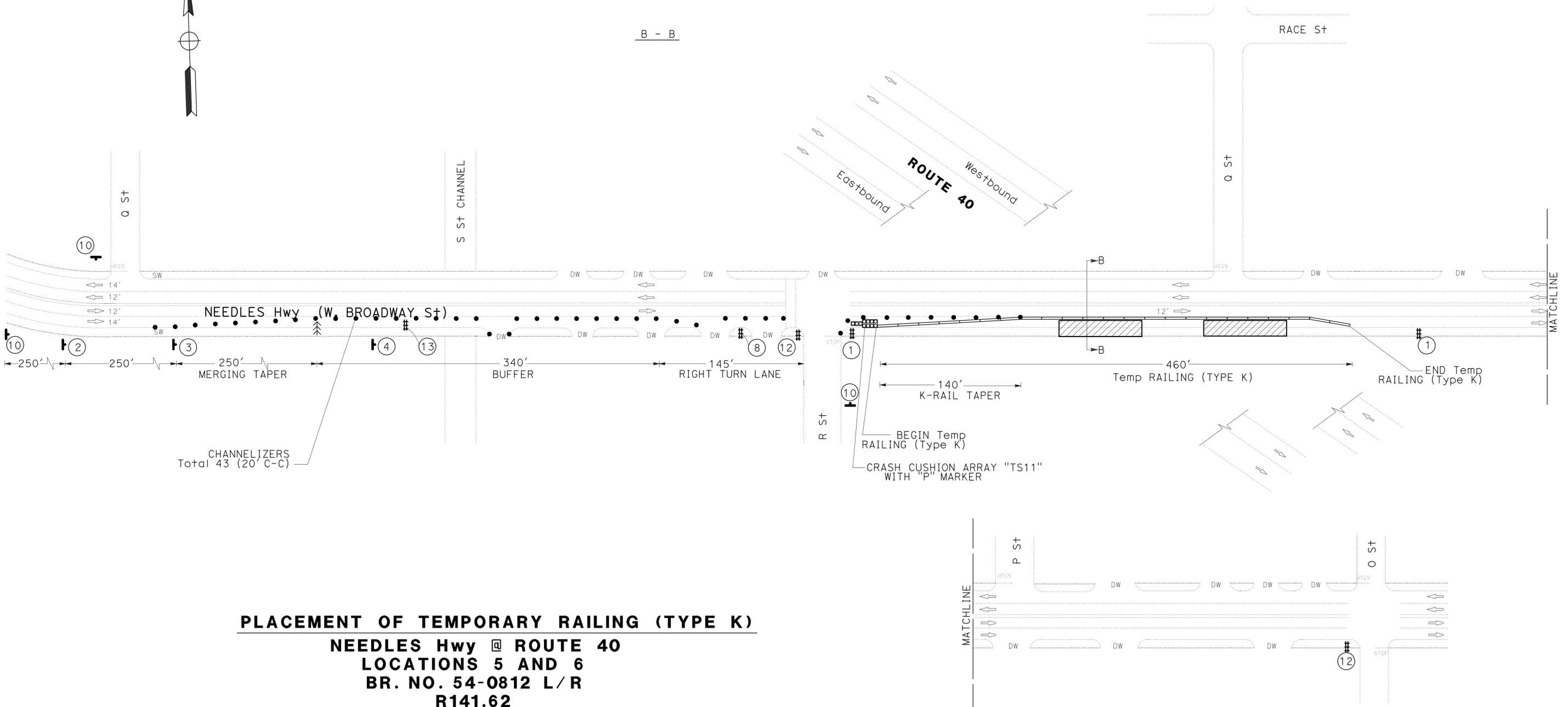
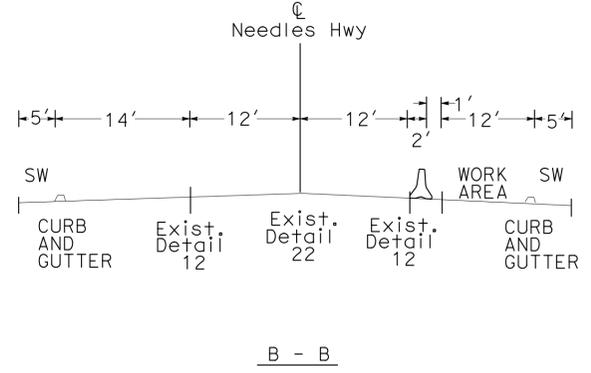
TRAFFIC HANDLING PLAN
 Stage 1
 NO SCALE
TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MARIO L AMANCIO
 CALCULATED/DESIGNED BY: PATTI BARTOLI
 CHECKED BY: DEAN D TO
 REVISED BY: DATE
 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

NOTE:
 DRIVEWAY ACCESS SHALL BE PROVIDED AT ALL TIMES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	8	33
DEAN D TO REGISTERED CIVIL ENGINEER		12-29-15 DATE		REGISTERED PROFESSIONAL ENGINEER No. C81698 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA	
12-29-15 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>					



PLACEMENT OF TEMPORARY RAILING (TYPE K)
NEEDLES Hwy @ ROUTE 40
LOCATIONS 5 AND 6
BR. NO. 54-0812 L/R
R141.62

APPROVED FOR TRAFFIC HANDLING WORK ONLY

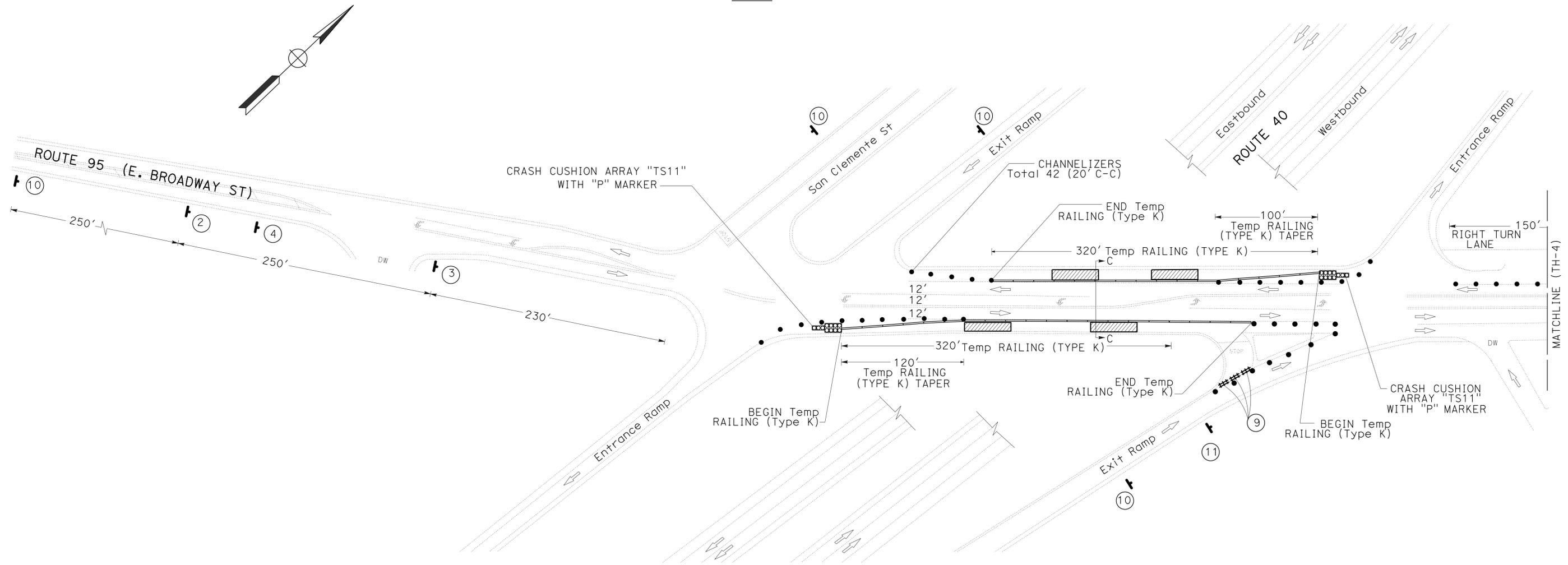
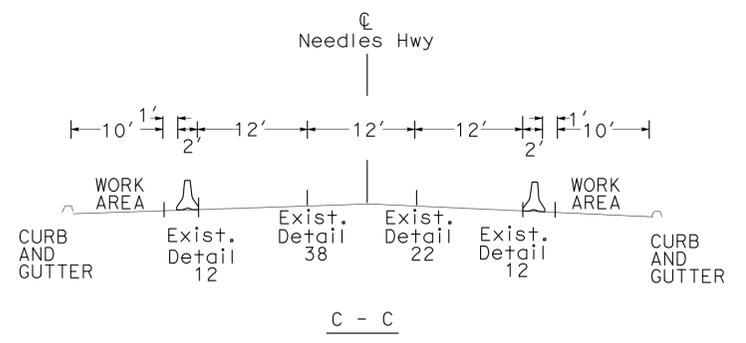
TRAFFIC HANDLING PLAN
 Stage 2
 NO SCALE
TH-2

LAST REVISION | DATE PLOTTED => 06-JAN-2016
 12-29-15 TIME PLOTTED => 15:54

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: MARIO L. AMANCIO
 CALCULATED/DESIGNED BY: PATTI BARTOLI
 CHECKED BY: DEAN D. TO
 REVISIONS: REVISED BY: DATE

NOTE:
 DRIVEWAY ACCESS SHALL BE PROVIDED AT ALL TIMES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	9	33
DEAN D TO REGISTERED CIVIL ENGINEER			12-29-15	DATE	
12-29-15 PLANS APPROVAL DATE			DEAN D TO No. C81698 Exp. 3-31-16 CIVIL		
<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>					



**PLACEMENT OF TEMPORARY RAILING (TYPE K)
 ROUTE 95 @ ROUTE 40
 LOCATIONS 7 AND 8
 BR. NO. 54-0819 L/R
 R143.74**

TRAFFIC HANDLING PLAN
 NO SCALE
TH-3

APPROVED FOR TRAFFIC HANDLING WORK ONLY

LAST REVISION | DATE PLOTTED => 06-JAN-2016
 12-29-15 TIME PLOTTED => 15:54

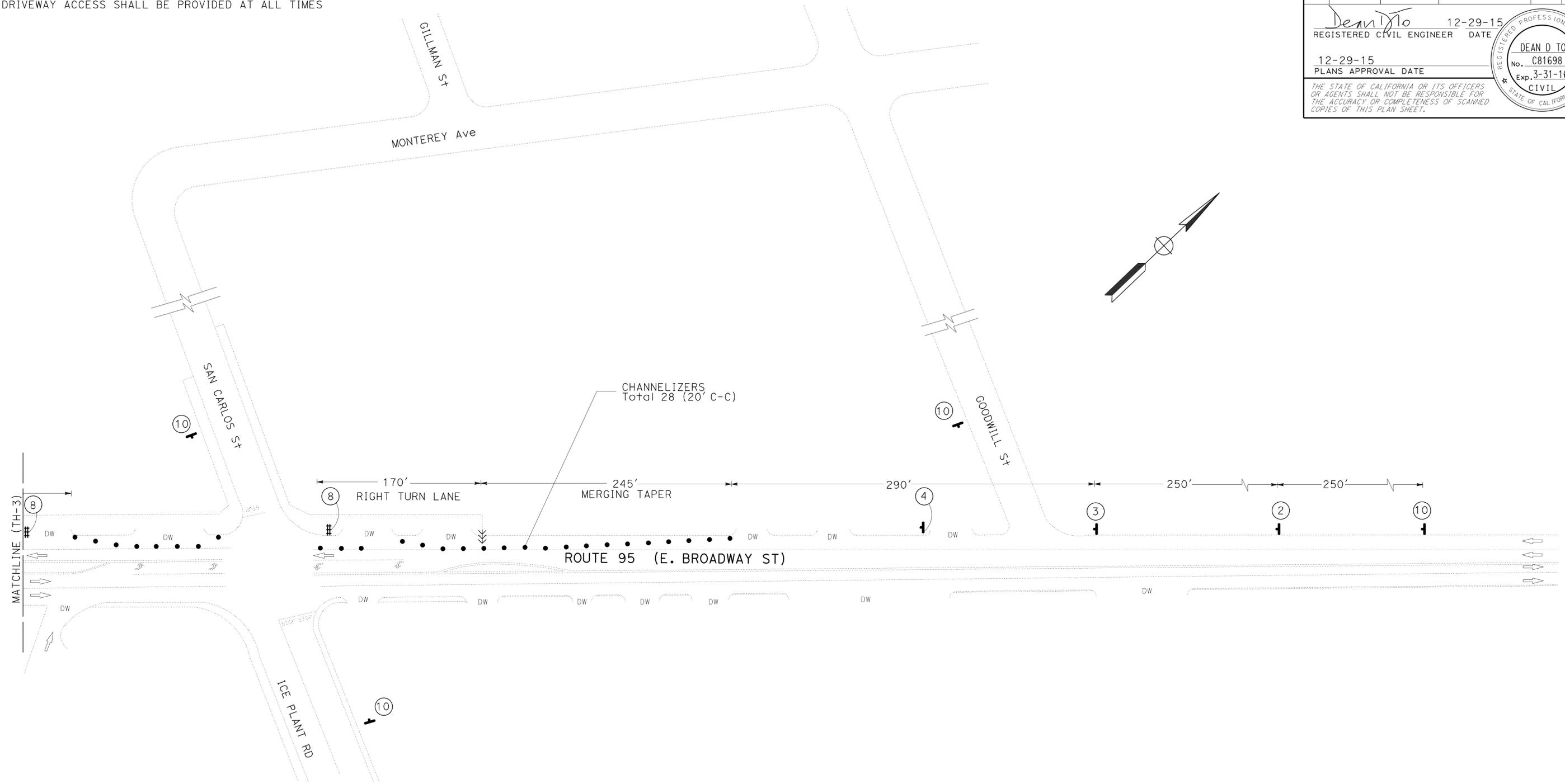
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MARIO L. AMANCIO
 CALCULATED/DESIGNED BY: PATTI BARTOLI
 CHECKED BY: DEAN D TO
 REVISOR: PATTI BARTOLI
 DATE: DEAN D TO

NOTE:
 DRIVEWAY ACCESS SHALL BE PROVIDED AT ALL TIMES

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	10	33

REGISTERED CIVIL ENGINEER: *Dean D To*
 DATE: 12-29-15
 PLANS APPROVAL DATE: 12-29-15
 No. C81698
 Exp. 3-31-16
 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.

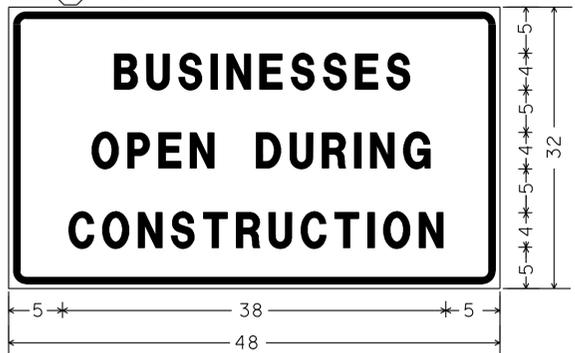


TRAFFIC HANDLING PLAN
 NO SCALE
TH-4

APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	11	33
			12-29-15		
REGISTERED CIVIL ENGINEER			DATE		
12-29-15			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>					

SIGN (4) CS1



3.0" Radius, 1.3" Border, 0.8" Indent, Black on Orange
[BUSINESSES] 4" D; [OPEN DURING] 4" D; [CONSTRUCTION] 4" D

FLASHING ARROW SIGN

EA
3

BARRICADE, TYPE II

EA
16

CONSTRUCTION AREA SIGNS (TH-1 AND TH-4)

SIGN NUMBER (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
1	R9-9		24" x 12"	SIDEWALK CLOSED	BARRICADE	4
2	W20-5	C20(R)	36" x 36"	RIGHT LANE CLOSED AHEAD	1 - 4" x 6"	4
3	W4-2R		36" x 36"	LANE MERGE SYMBOL(R)	1 - 4" x 6"	4
4		CS1	48" x 32"	BUSINESSES OPEN DURING CONSTRUCTION	1 - 4" x 6"	4
5	R3-2		30" x 30"	NO LEFT TURN SYMBOL	1 - 4" x 4"	1
6	R11-2		48" x 32"	ROAD CLOSED	BARRICADE	3
7	R3-1		30" x 30"	NO RIGHT TURN SYMBOL	1 - 4" x 4"	1
8	R3-7		30" x 30"	RIGHT LANE MUST TURN RIGHT	BARRICADE	5
9	W1-6		24" x 12"	ONE DIRECTION ARROW	BARRICADE	3
10	W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	19
11	R3-2		30" x 30"	NO LEFT TURN SYMBOL	1 - 4" x 4"	1
12	R9-11		24" x 12"	SIDEWALK CLOSED AHEAD CROSS HERE	BARRICADE	2
13		C30	30" x 30"	LANE CLOSED	BARRICADE	1

TRAFFIC HANDLING QUANTITIES

LOCATIONS	TEMPORARY RAILING (TYPE K)	TEMPORARY CRASH CUSHION MODULE	CHANNELIZER (SURFACE MOUNTED)	TEMPORARY RAILING (TYPE K) REFLECTOR (N)
	LF	EA	EA	EA
5 AND 6	840	22	96	42
7 AND 8	720	22	70	32
TOTAL	1,560	44	166	74

(N) For Information only, not a separate pay item.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MARIO L AMANCIO
 CALCULATED/DESIGNED BY: PATTI BARTOLI
 CHECKED BY: DEAN D TO
 REVISED BY: DATE REVISIONS

APPROVED FOR TRAFFIC HANDLING WORK ONLY

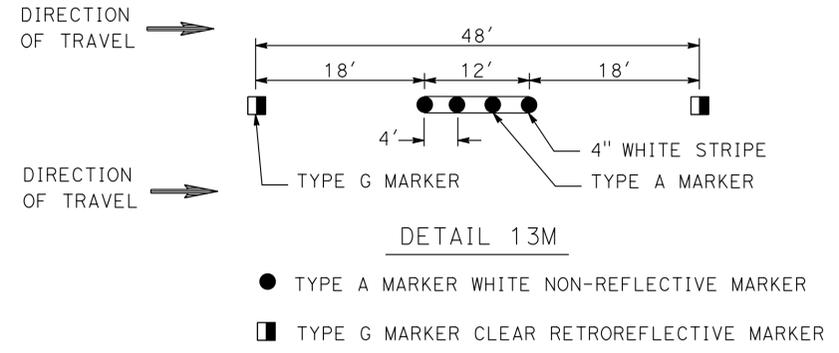
TRAFFIC HANDLING PLAN
NO SCALE **TH-5**

LAST REVISION | DATE PLOTTED => 06-JAN-2016
 12-29-15 TIME PLOTTED => 15:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	12	33

12-29-15
 REGISTERED CIVIL ENGINEER DATE
 DEAN D TO
 No. C81698
 Exp. 3-31-16
 CIVIL
 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:
 INSTALL TRAFFIC STRIPES 100' BEYOND EACH END OF BRIDGE DECK. ADDITIONAL STRIPE INCLUDED IN PAY ITEM THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE). REMOVAL OF TRAFFIC BEYOND EACH APPROACH/DEPARTURE OF THE BRIDGE DECK IS INCLUDED IN PAY ITEM FOR REMOVAL OF TRAFFIC STRIPE.



PAVEMENT DELINEATION QUANTITIES

LOCATION/POSTMILE	DIRECTION	DETAIL No.	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE (WHITE)	REMOVE PAVEMENT MARKER	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)		PAVEMENT MARKER			REMARKS
						4" YELLOW	4" WHITE	NON-REFLECTIVE		TYPE H	
								TYPE A	TYPE G		
LF	LF	EA	EA	EA	EA	EA	EA	EA	EA		
1 WATSON WASH 54-1282R R105.9	EB	DETAIL 13M		252	105			84	21		
	EB	DETAIL 25	944		21	944				21	
	EB	DETAIL 27B		944			944				
2 BUZZARD WASH 54-0700L R138.26	WB	DETAIL 13M					350	32	8		
	WB	DETAIL 25				350				8	
	WB	DETAIL 27B				350					
3 RIVER RD OC, 54-0808, R141.02	NB/SB	DETAIL 21	408			408					
4 "S" STREET CHANNEL 54-0811L R141.47	WB	DETAIL 13M					350	32	8		
	WB	DETAIL 25				350				8	
	WB	DETAIL 27B				350					
9 PALO VERDE WASH 54-0503L R141.27	WB	DETAIL 13M					241	24	6		
	WB	DETAIL 25				241				6	
	WB	DETAIL 27B				241					
10 BEAL WASH 54-0504R R149.85	EB	DETAIL 13M					241	24	6		
	EB	DETAIL 25				241				6	
	EB	DETAIL 27B				241					
SUBTOTAL						2534	4252	196	49	49	
TOTAL			1352	1196	126	6786		196	98		

PAVEMENT DELINEATION QUANTITIES
PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: MARIO L AMANCIO
 DESIGNED BY: PATTI BARTOLI
 CHECKED BY: DEAN TO
 REVISIONS: 12-29-15

LAST REVISION DATE PLOTTED => 06-JAN-2016 12-29-15 TIME PLOTTED => 15:54

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR
 IYAD NAMY

CALCULATED/DESIGNED BY
 CHECKED BY

MINLUNG HO
 KUANG H CHEN

REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	13	33

12-29-15
 REGISTERED CIVIL ENGINEER DATE

12-29-15
 PLANS APPROVAL DATE

MinLung Ho
 No. C 68641
 Exp. 9/30/17
 CIVIL

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.

SURVEY MONUMENT QUANTITIES

LOCATION	SURVEY MONUMENT (TYPE D) (EA)
R141.62	1

SUMMARY OF QUANTITIES

Q-1



	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
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
WWL	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
08	SBd	40	R105.8/149.9	14	33

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 12-29-15

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

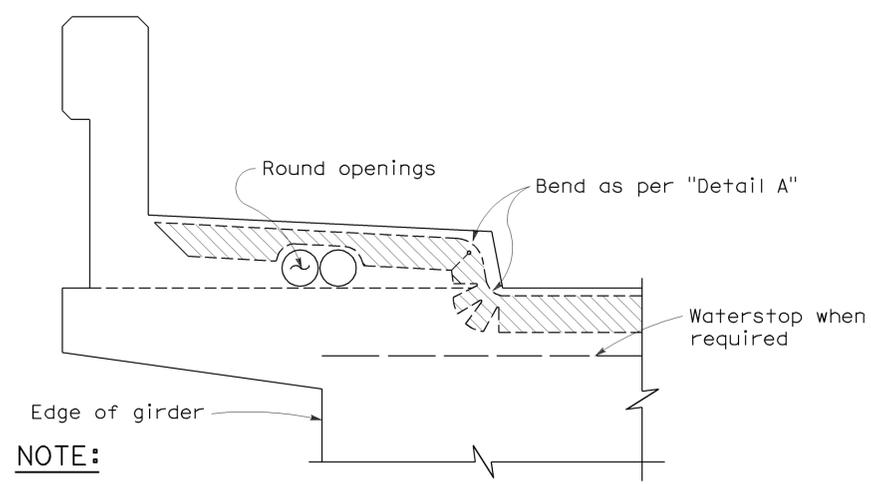
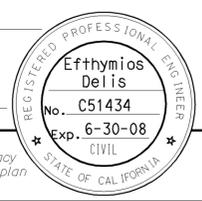
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

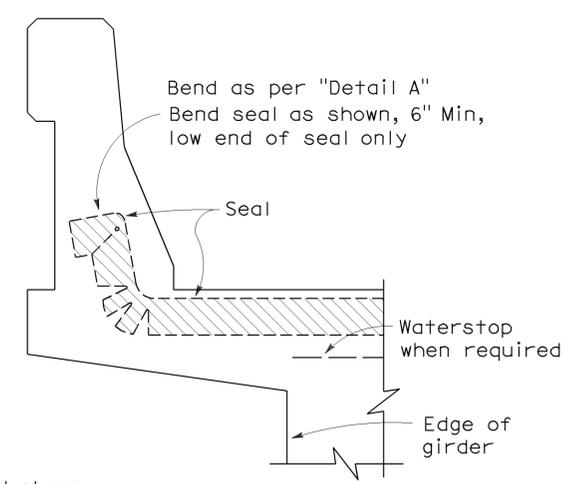
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

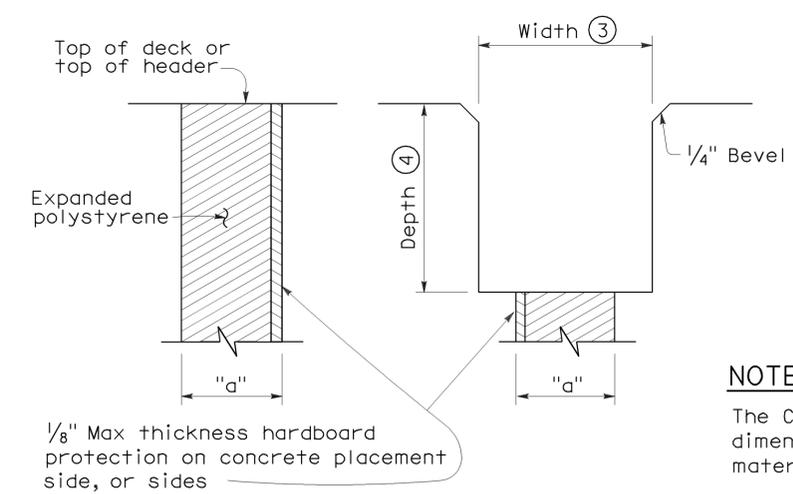


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



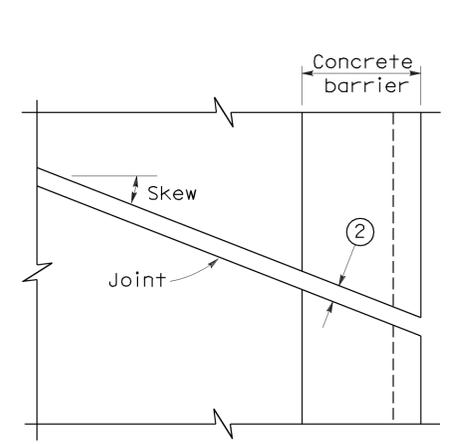
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

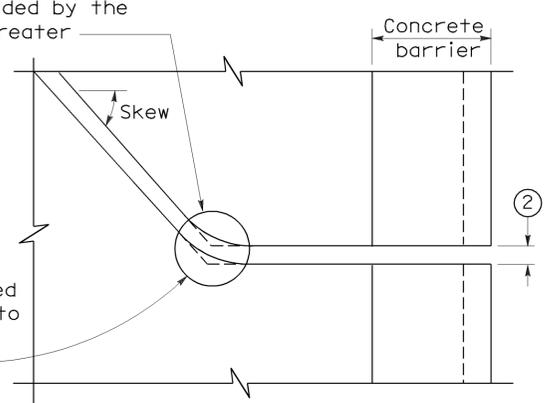
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



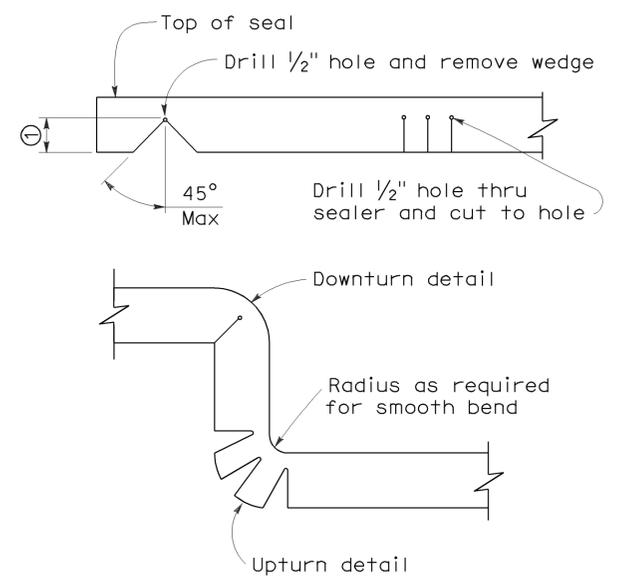
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



PLAN OF JOINT (SKEW > 20°)

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.

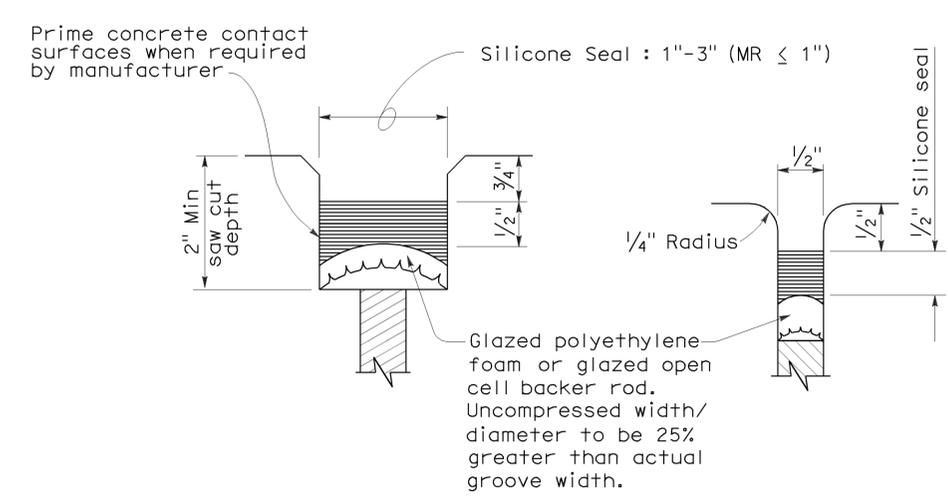


DETAIL A

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
 - Opening in barrier to match width of sawn deck joint.
 - Sawcut groove widths shall be as ordered by the Engineer.
 - Depth of sawcut: Type A - Depth to be 2" minimum.
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W₂) plus dimensions shown.
 - MR (movement rating) as shown on other plan sheets.
 - Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

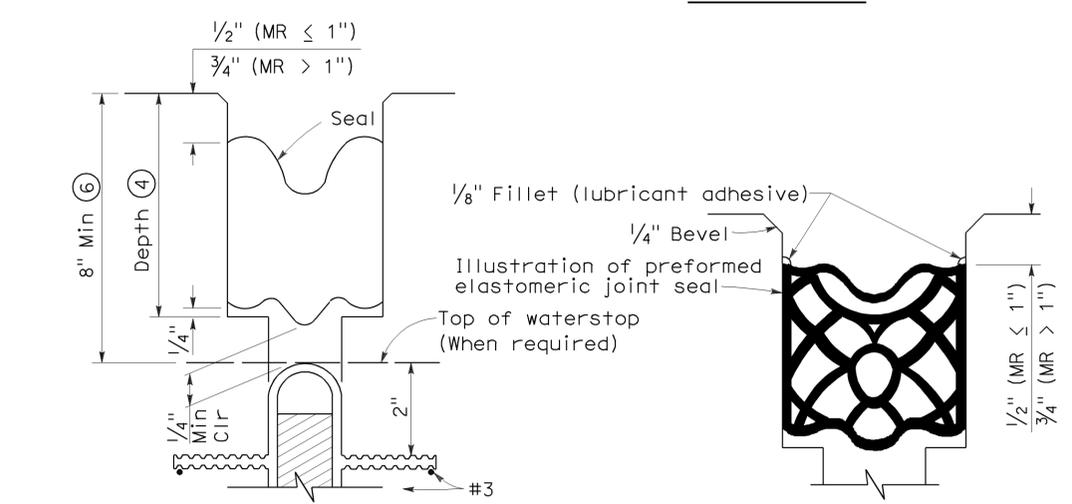


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

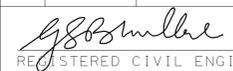
TYPE B SEAL

Movement Rating ≤ 2"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")
 NO SCALE

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	16	33


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 12-29-15

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

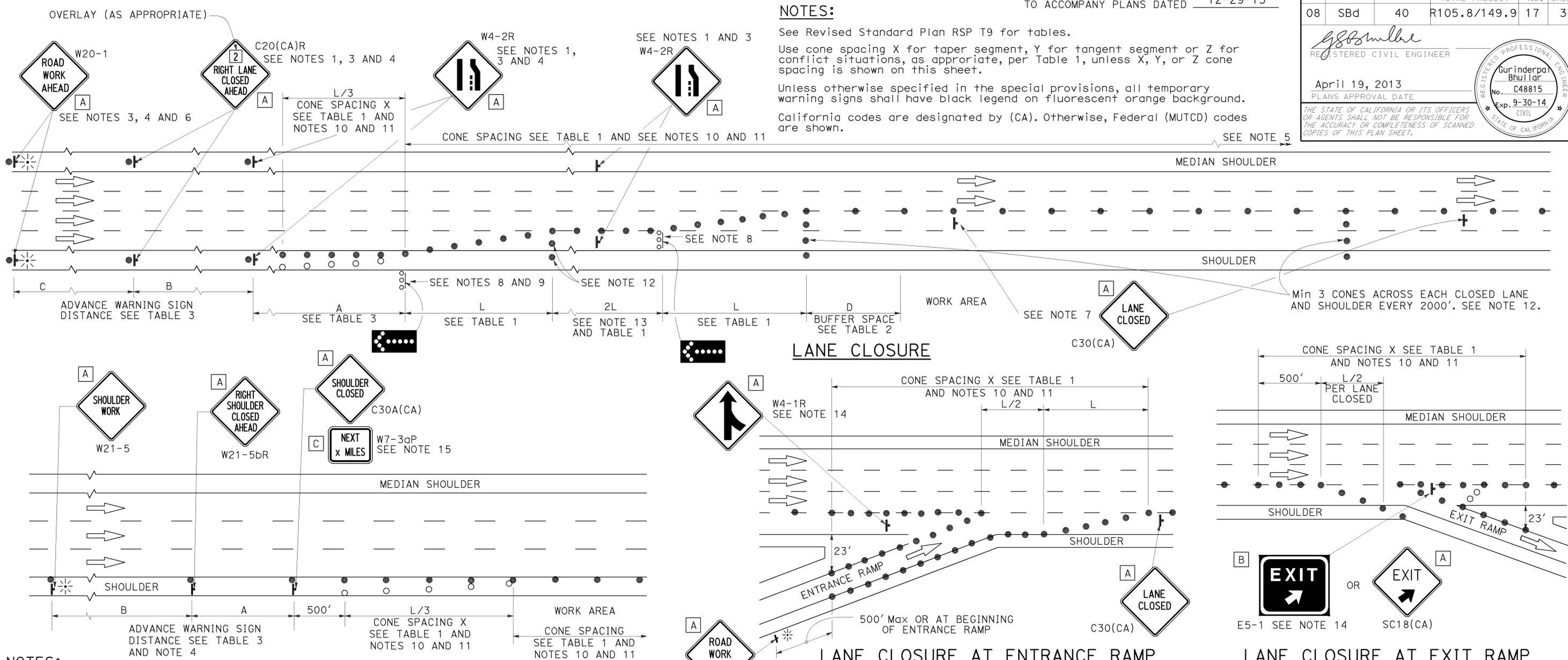
RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SbD	40	R105.8/149.9	17	33

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.

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



- 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) 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.

- 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"

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

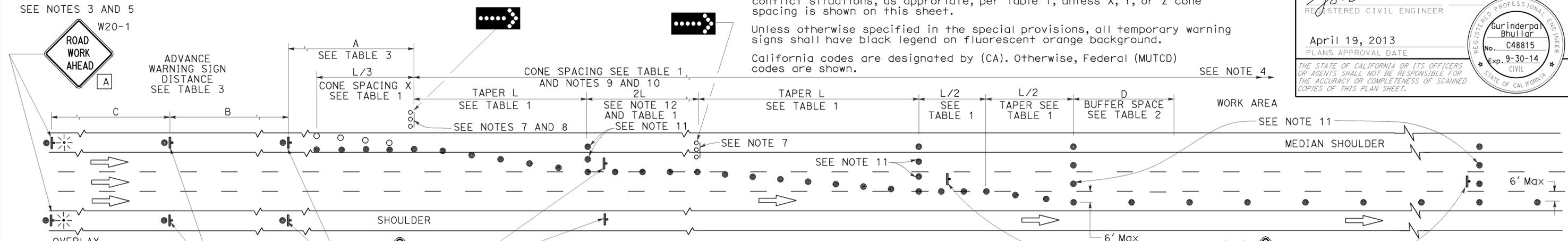
2010 REVISED STANDARD PLAN RSP T10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SbD	40	R105.8/149.9	18	33

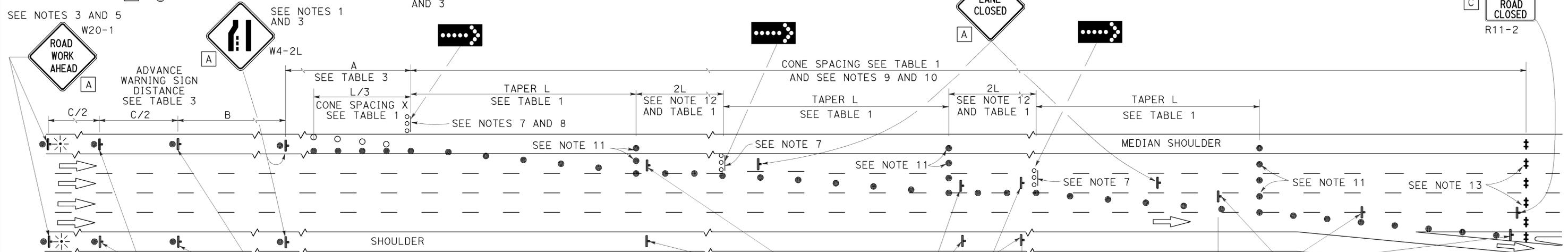
REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

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.



LANE CLOSURE WITH PARTIAL SHOULDER USE



COMPLETE CLOSURE

- NOTES:**
- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
 - At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 - 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.
 - 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.
 - 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 the 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.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.

- 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.
- A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	48" x 18"
C	48" x 30"

LEGEND

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

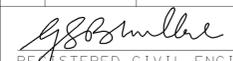
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURES ON
 FREEWAYS AND EXPRESSWAYS**
 NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

2010 REVISED STANDARD PLAN RSP T10A

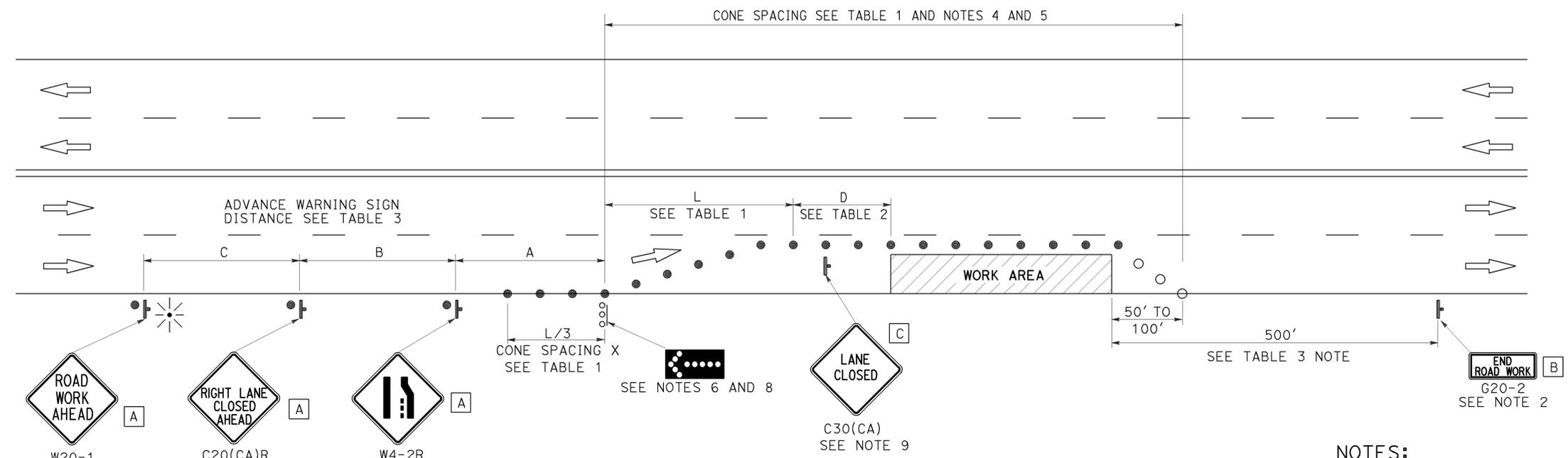
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	19	33


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 12-29-15



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

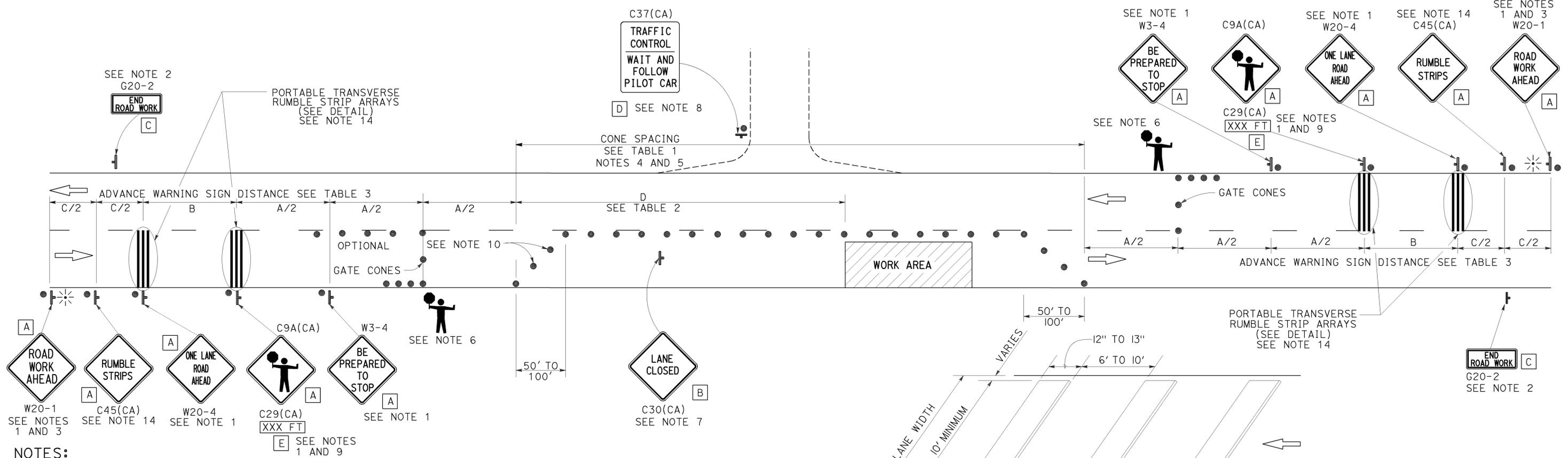
2010 REVISED STANDARD PLAN RSP T11

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.

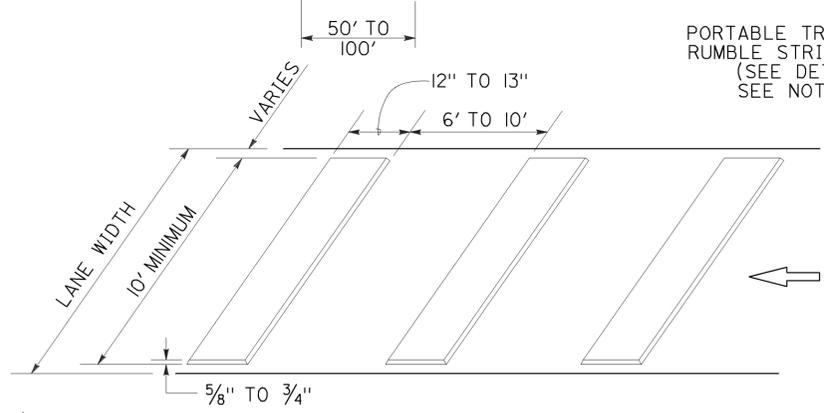
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 12-29-15



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



LEGEND

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

SIGN PANEL SIZE (Min)

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

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED OCTOBER 30, 2015 SUPERSEDES RSP T13 DATED OCTOBER 17, 2014, 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.

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
08	SbD	40	R105.8/149.9	21	33

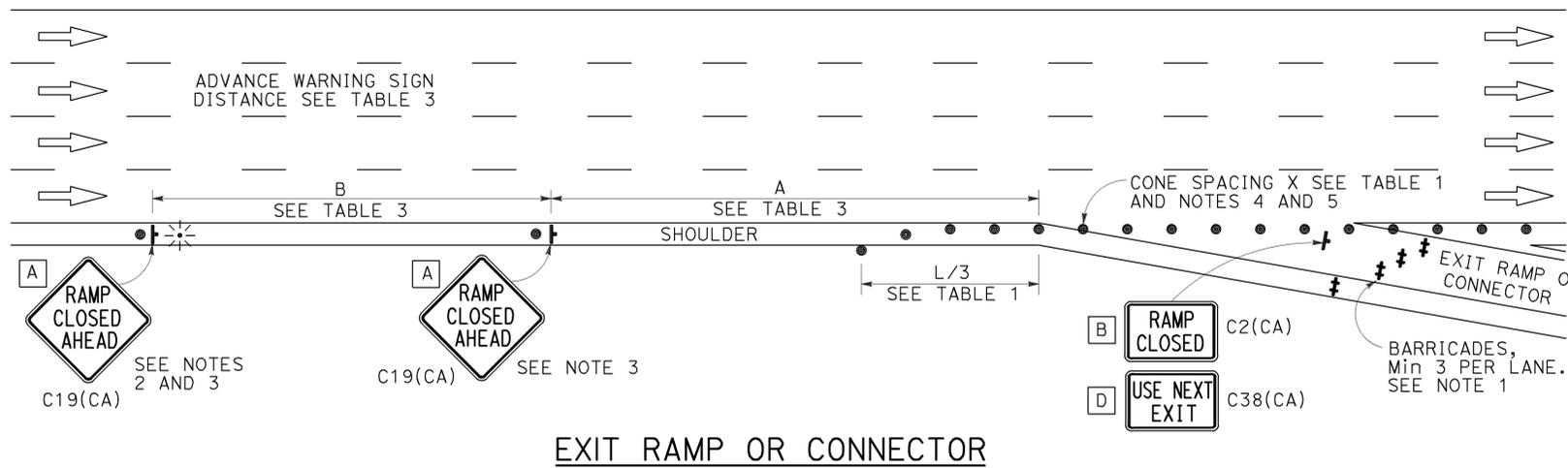
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

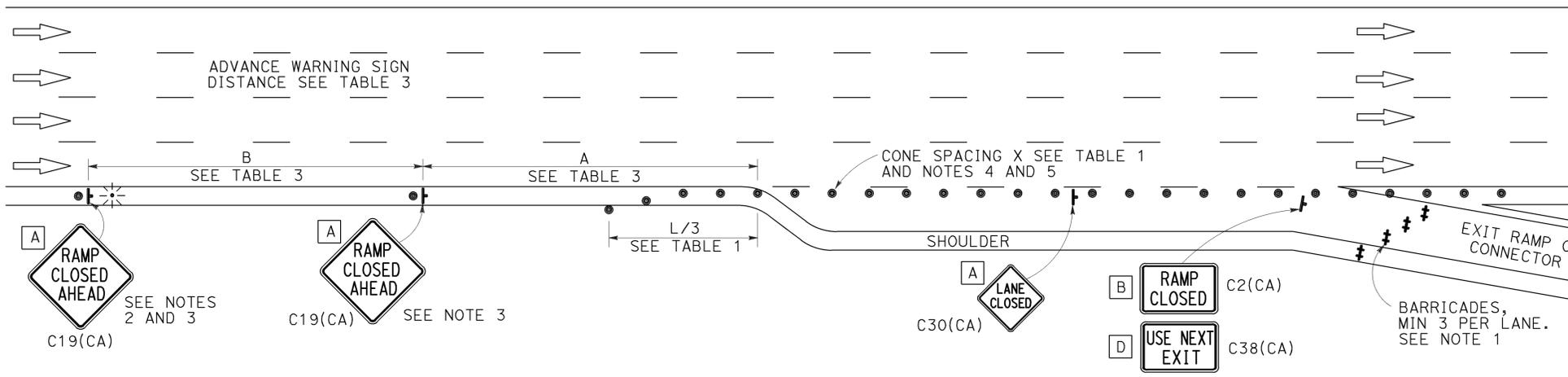
TO ACCOMPANY PLANS DATED 12-29-15

NOTES:

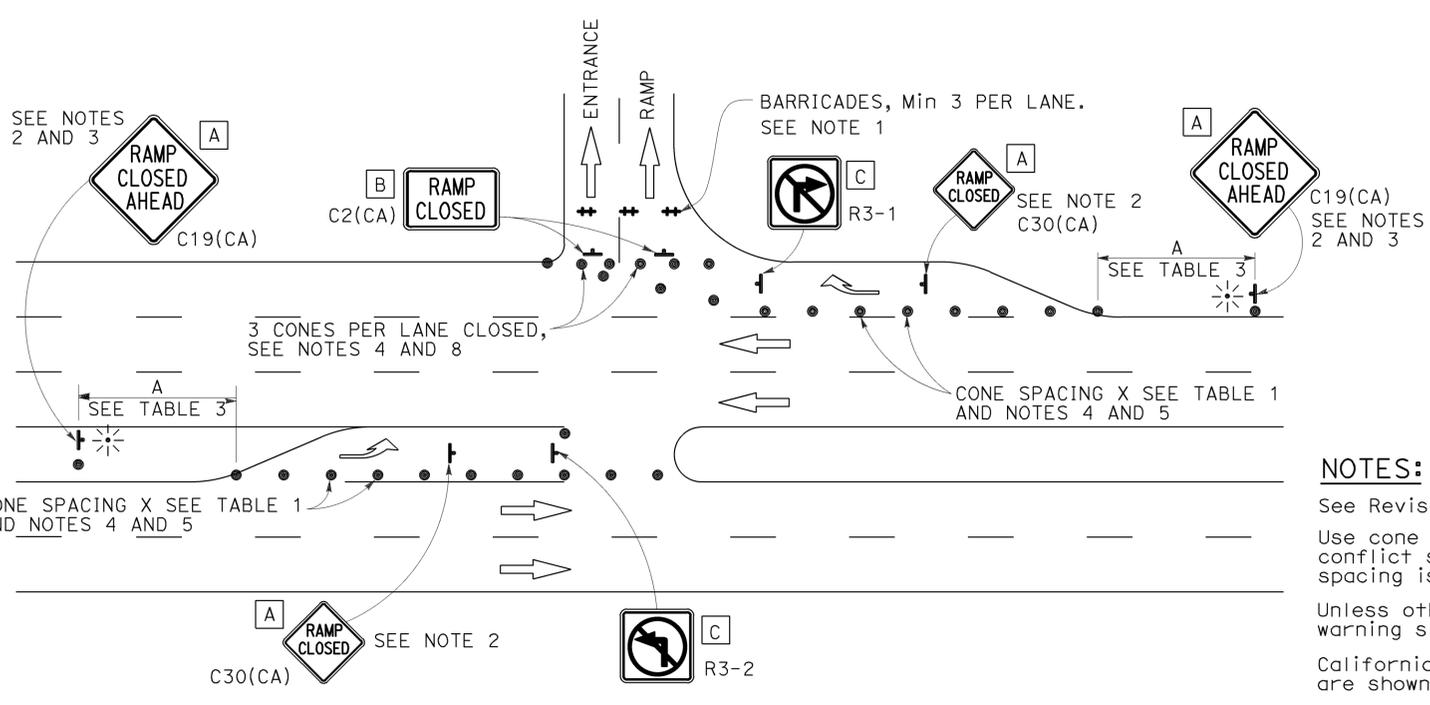
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



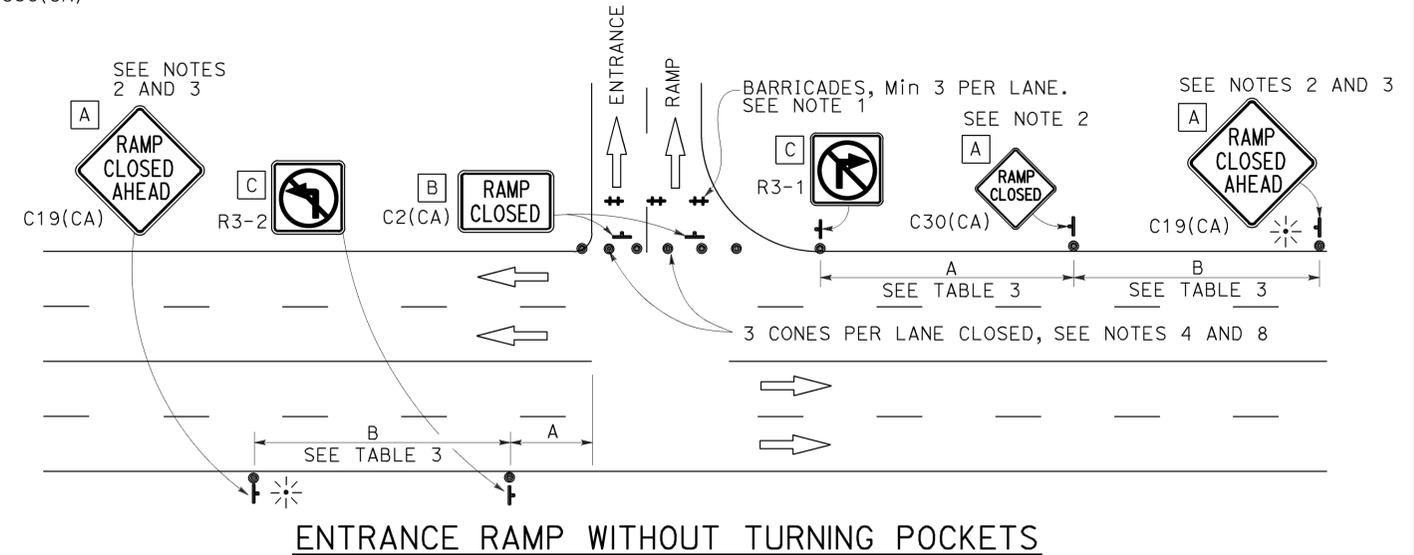
EXIT RAMP OR CONNECTOR



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
08	SBd	40	R105.8/149.9	22	33

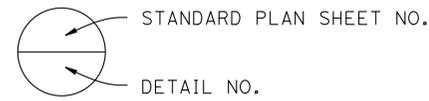
11/16/15
 REGISTERED CIVIL ENGINEER DATE
 12/29/15
 PLANS APPROVAL DATE
 No. C66900
 Exp. 09/30/16
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

INDEX TO PLANS

SHEET NO.	TITLE
22	GENERAL PLAN NO. 1
23	GENERAL PLAN NO. 2
24	GENERAL PLAN NO. 3
25	GENERAL PLAN NO. 4
26	GENERAL PLAN NO. 5
27	GENERAL PLAN NO. 6
28	GENERAL PLAN NO. 7
29	EPOXY CRACK INJECTION DETAILS
30	BEARING REPLACEMENT DETAILS NO. 1
31	BEARING REPLACEMENT DETAILS NO. 2
32	MISCELLANEOUS DETAILS NO. 1
33	MISCELLANEOUS DETAILS NO. 2

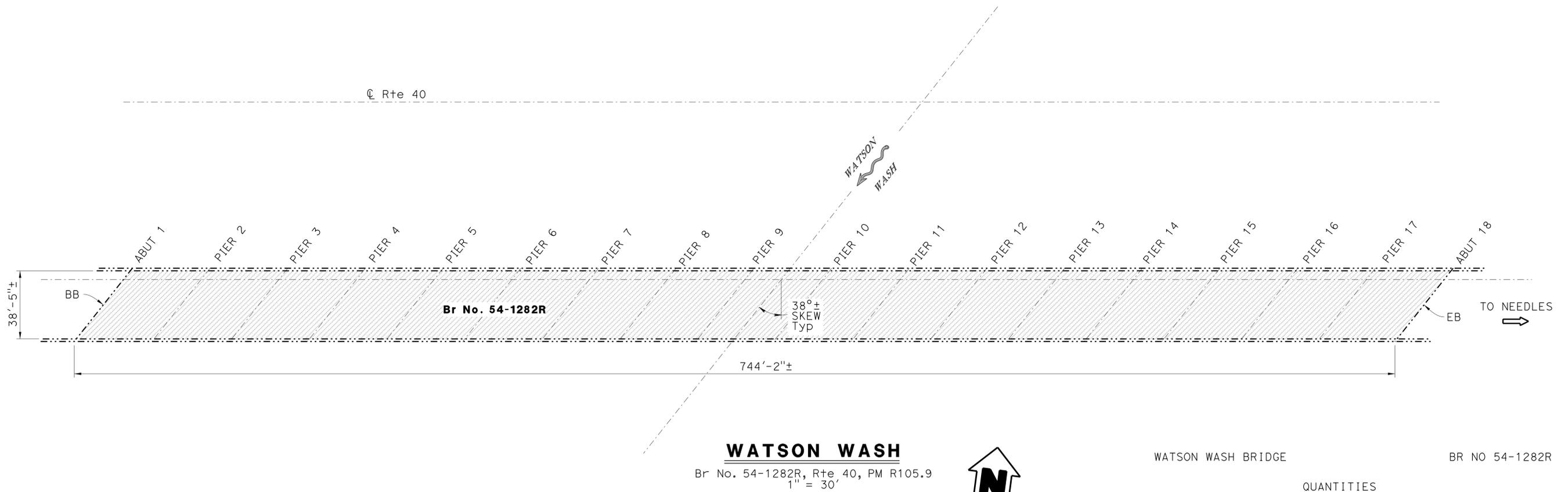
STANDARD PLANS DATED 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.

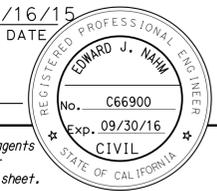


QUANTITIES	
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	28,600 SQFT
TREAT BRIDGE DECK	28,600 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	357 GAL

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY BRAKE DESIGN ENGINEER	DESIGN	BY E. NAHM	CHECKED T. BRAKE	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.	ROUTE 40 BRIDGES GENERAL PLAN NO. 1
	DETAILS	BY T. DANG	CHECKED T. BRAKE	LAYOUT	BY T. DANG			CHECKED E. NAHM	
	QUANTITIES	BY E. NAHM	CHECKED T. BRAKE	SPECIFICATIONS	BY T. NEDWICK	PLANS AND SPECS COMPARED T. NEDWICK	POST MILE	R105.9	

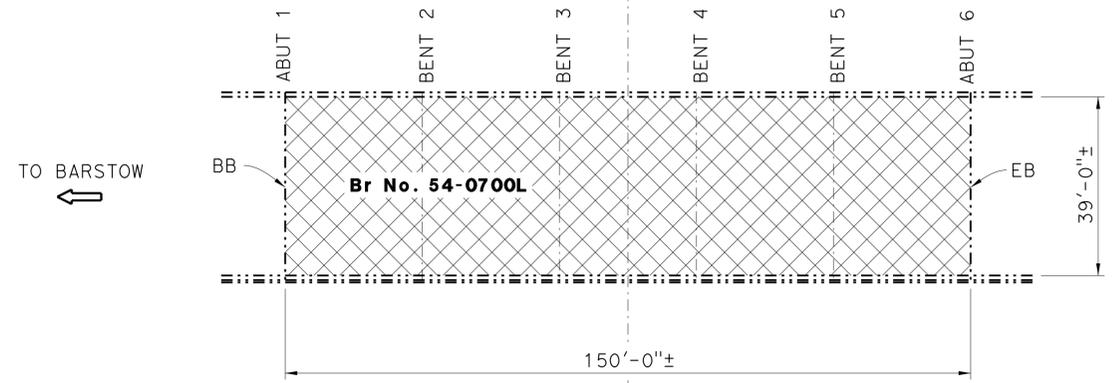
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	23	33

 11/16/15
 REGISTERED CIVIL ENGINEER DATE
 12/29/15
 PLANS APPROVAL DATE


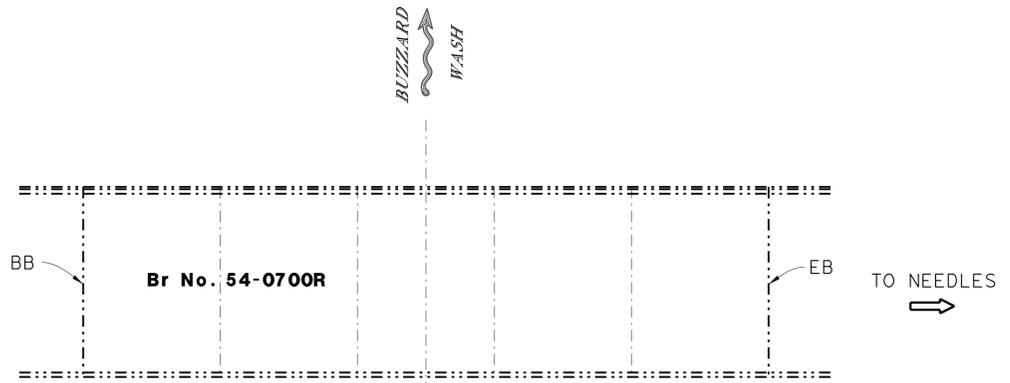
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface, furnish and place new 1 1/2" thick min polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete.
-  Indicates limits of removal of existing 1 1/2"± thick asphalt concrete overlay.



☉ Rte 40



BUZZARD WASH

Br No. 54-0700L, Rte 40, PM R138.26
1" = 20'



NOTES:

- For "DECK REPAIR DETAIL-OVERLAY", see "MISCELLANEOUS DETAILS NO. 2" sheet.

BUZZARD WASH BRIDGE

BR NO 54-0700L

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	15	CF
REMOVE ASPHALT CONCRETE SURFACING	5,850	SQFT
REMOVE UNSOUND CONCRETE	15	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,850	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	878	CF
PLACE POLYESTER CONCRETE OVERLAY	5,850	SQFT

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

DESIGN	BY E. NAHM	CHECKED T. BRAKE	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY T. DANG	CHECKED T. BRAKE	LAYOUT	BY T. DANG
QUANTITIES	BY E. NAHM	CHECKED T. BRAKE	SPECIFICATIONS	BY T. NEDWICK

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	54-0700L
POST MILE	R138.26

**ROUTE 40 BRIDGES
GENERAL PLAN NO. 2**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489
PROJECT NUMBER & PHASE: 081500005-1 CONTRACT NO.: 08-1F6304

DISREGARD PRINTS BEARING EARLIER REVISION DATES

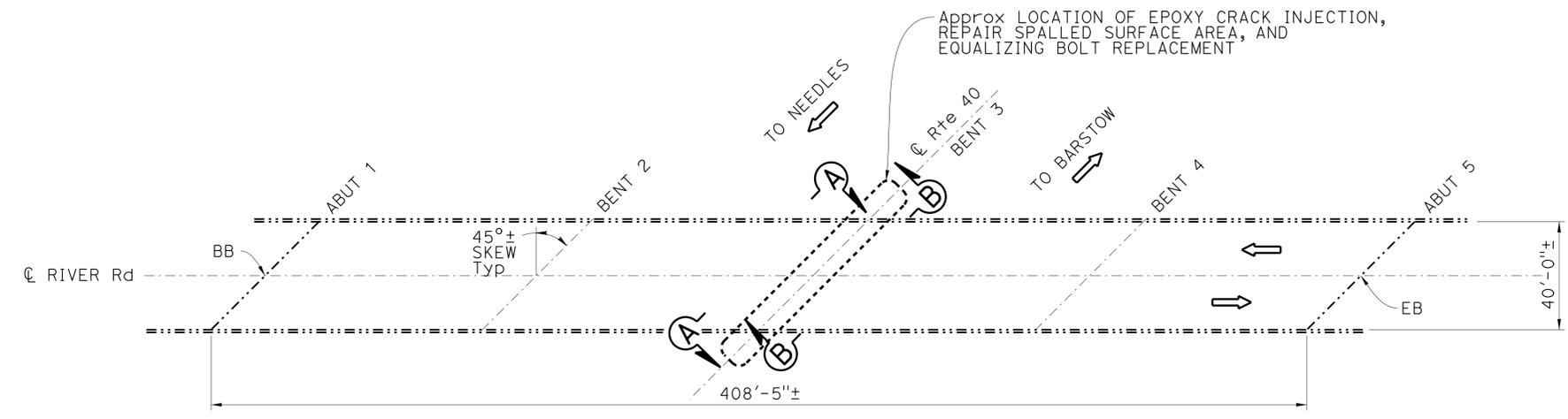
REVISION DATES	SHEET	OF
3-01-15	02	12

USERNAME => s110420 DATE PLOTTED => 06-JAN-2016 TIME PLOTTED => 15:54

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	24	33
			11/16/15		
			REGISTERED CIVIL ENGINEER	DATE	
			12/29/15	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>					

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.



RIVER ROAD OVERCROSSING	BR NO 54-0808
QUANTITIES	
INJECT CRACK (EPOXY)	30 LF
REPAIR SPALLED SURFACE AREA	12 SQFT
REPLACE EQUALIZING BOLT	1 EA

RIVER ROAD OC
 Br No. 54-0808, Rte 40, PM R141.02
 1" = 30'

NOTES:

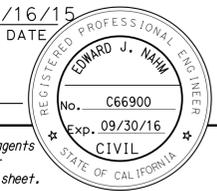
- For epoxy crack injection details, see "EPOXY CRACK INJECTION DETAILS" sheet.
- For repair spalled surface area details, see "EPOXY CRACK INJECTION DETAILS" sheet.
- For miscellaneous metal (bridge) details, see "EPOXY CRACK INJECTION DETAILS" sheet.
- For location of SECTION A-A and SECTION B-B, see "EPOXY CRACK INJECTION DETAILS" sheet.

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY BRAKE DESIGN ENGINEER	DESIGN	BY E. NAHM	CHECKED T. BRAKE	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 40 BRIDGES			
	DETAILS	BY T. DANG	CHECKED T. BRAKE	LAYOUT	BY T. DANG		CHECKED E. NAHM	54-0808	GENERAL PLAN NO. 3		
	QUANTITIES	BY E. NAHM	CHECKED T. BRAKE	SPECIFICATIONS	BY T. NEDWICK	PLANS AND SPECS COMPARED T. NEDWICK	POST MILE				
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)							UNIT: 3489	PROJECT NUMBER & PHASE: 0815000005-1	CONTRACT NO.: 08-1F6304	REVISION DATES	SHEET 03 OF 12
							DISREGARD PRINTS BEARING EARLIER REVISION DATES	3-01-15			

USERNAME => s110420 DATE PLOTTED => 06-JAN-2016 TIME PLOTTED => 15:54

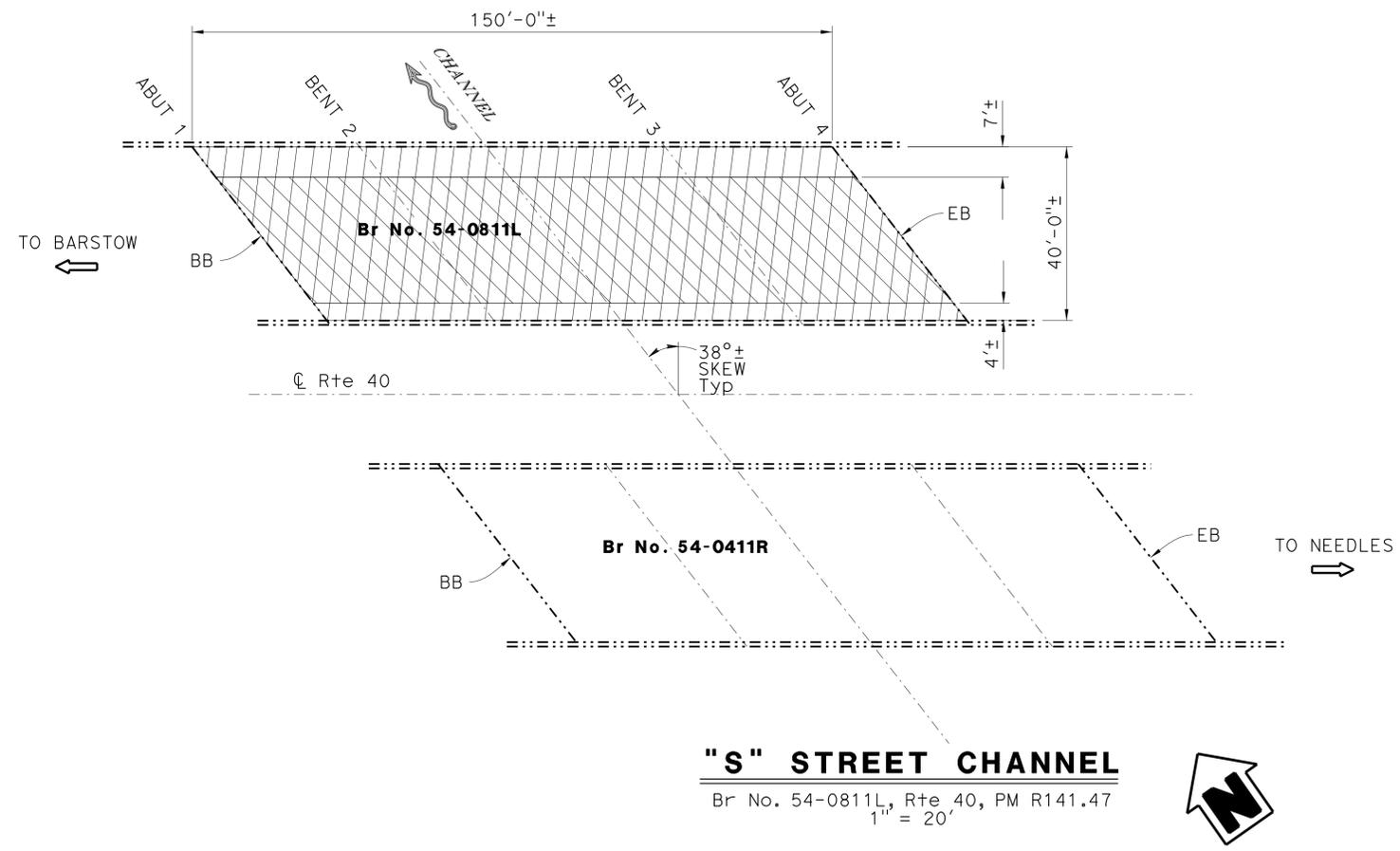
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	25	33

 11/16/15
 REGISTERED CIVIL ENGINEER DATE
 12/29/15
 PLANS APPROVAL DATE


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

LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface, furnish and place new 1 1/2" thick min polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete.
-  Indicates limits of removal of existing 1 1/2" thick asphalt concrete overlay.



NOTES:

- For "DECK REPAIR DETAIL-OVERLAY", see "MISCELLANEOUS DETAILS NO. 2" sheet.

"S" STREET CHANNEL	BR NO 54-0811L
QUANTITIES	
PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	15 CF
REMOVE ASPHALT CONCRETE SURFACING	4,350 SQFT
REMOVE UNSOUND CONCRETE	15 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,000 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	900 CF
PLACE POLYESTER CONCRETE OVERLAY	6,000 SQFT

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY BRAKE DESIGN ENGINEER	DESIGN	BY E. NAHM	CHECKED T. BRAKE	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 40 BRIDGES GENERAL PLAN NO. 4						
	DETAILS	BY T. DANG	CHECKED T. BRAKE	LAYOUT	BY T. DANG		CHECKED E. NAHM				54-0811L			
	QUANTITIES	BY E. NAHM	CHECKED T. BRAKE	SPECIFICATIONS	BY T. NEDWICK	PLANS AND SPECS COMPARED T. NEDWICK	POST MILE							
								R141.47						
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3489	PROJECT NUMBER & PHASE: 081500005-1	CONTRACT NO.: 08-1F6304	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 04	OF 12

USERNAME => s110420 DATE PLOTTED => 06-JAN-2016 TIME PLOTTED => 15:54

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	26	33

		11/16/15
REGISTERED CIVIL ENGINEER	DATE	
12/29/15		
PLANS APPROVAL DATE		

No. C66900
Exp. 09/30/16
CIVIL

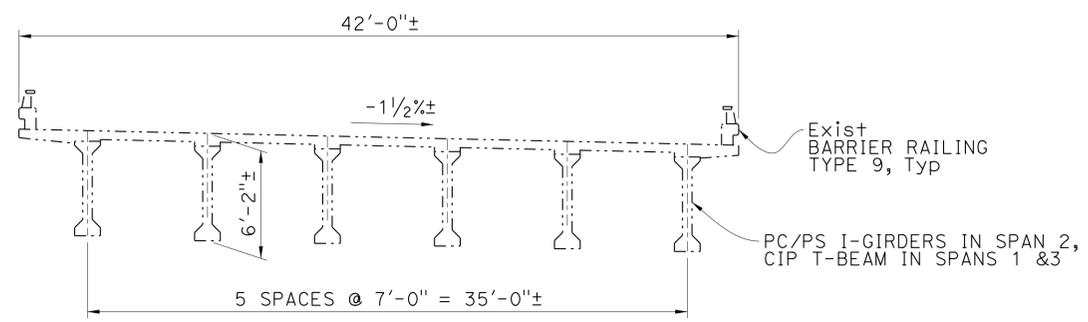
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- /— Indicates location of clean expansion joint and placement of new joint seal.

ORDER OF WORK:

1. Raise superstructure.
2. Remove existing bearing pads and sheet metal.
3. Install new bearing pads and sheet metal.
4. Lower superstructure on new bearing pads.
5. Install joint seal.



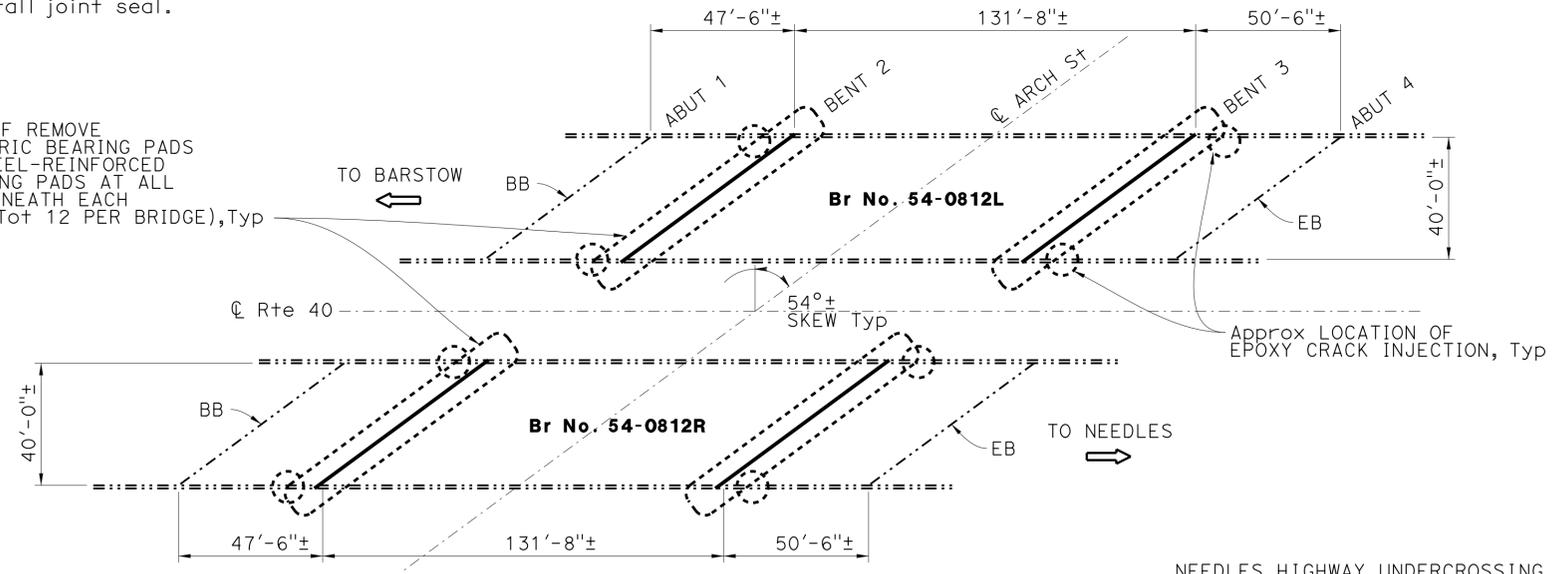
TYPICAL SECTION - SPAN 2

NO SCALE
Right bridge shown, Left bridge similar

NOTES:

1. For elastomeric bearing pad details, see "BEARING REPLACEMENT DETAILS NO. 1" sheet.
2. For jacking details, see "BEARING REPLACEMENT DETAILS NO. 1" sheet.
3. For epoxy crack injection details, see "BEARING REPLACEMENT DETAILS NO. 1" sheet.

Approx LOCATION OF REMOVE EXISTING ELASTOMERIC BEARING PADS AND PLACE NEW STEEL-REINFORCED ELASTOMERIC BEARING PADS AT ALL HINGE SEATS UNDERNEATH EACH PS/PC I-GIRDERS (Tot 12 PER BRIDGE), Typ



NEEDLES HIGHWAY UC

Br No. 54-0812L/R, Rte 40, PM R141.62
1" = 30'



NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

DESIGN BY E. NAHM	CHECKED T. BRAKE	LOAD FACTOR DESIGN BY T. DANG	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 40 BRIDGES GENERAL PLAN NO. 5
						54-0812L/R	
DETAILS BY T. DANG	CHECKED T. BRAKE	BY T. DANG	CHECKED E. NAHM			POST MILE	
QUANTITIES BY E. NAHM	CHECKED T. BRAKE	BY T. NEDWICK	PLANS AND SPECS COMPARED T. NEDWICK			R141.62	

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3489 PROJECT NUMBER & PHASE: 081500005-1 CONTRACT NO.: 08-1F6304	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 05 OF 12
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USERNAME => s110420 DATE PLOTTED => 06-JAN-2016 TIME PLOTTED => 15:54

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	27	33
			11/16/15		
			REGISTERED CIVIL ENGINEER DATE		
			12/29/15		
			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

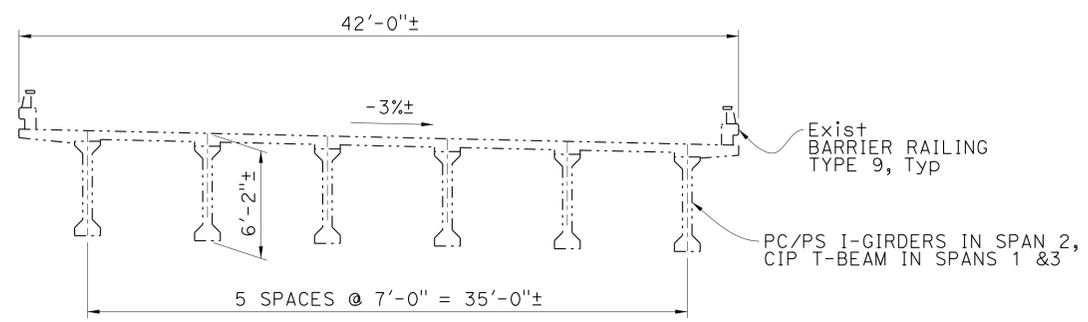


LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- /— Indicates location of clean expansion joint and placement of new joint seal.

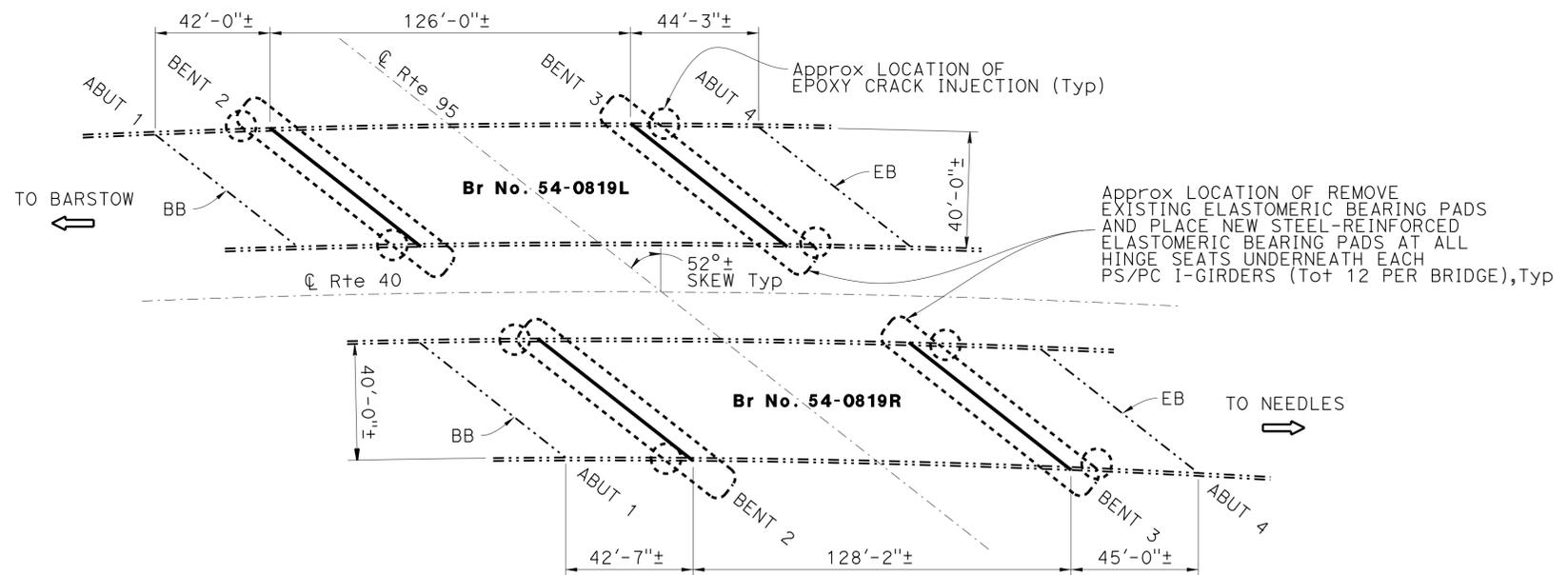
ORDER OF WORK:

1. Raise superstructure.
2. Remove existing bearing pads and sheet metal.
3. Install new bearing pads and sheet metal.
4. Lower superstructure on new bearing pads.
5. Install joint seal.



TYPICAL SECTION

NO SCALE
Right bridge shown, Left bridge similar



ROUTE 40/95 SEPARATION

Br No. 54-0819L/R, Rte 40, PM R143.74
1" = 30'

NOTES:

1. For elastomeric bearing pad details, see "BEARING REPLACEMENT DETAILS NO. 2" sheet.
2. For jacking details, see "BEARING REPLACEMENT DETAILS NO. 2" sheet.
3. For epoxy crack injection details, see "BEARING REPLACEMENT DETAILS NO. 2" sheet.

ROUTE 40/95 SEPARATION

BR NO 54-0819L/R

QUANTITIES

INJECT CRACK (EPOXY)	80 LF
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
TEMPORARY SUPPORT	LUMP SUM
CLEAN EXPANSION JOINT	260 LF
ELASTOMERIC BEARING PAD	24 EA
JOINT SEAL (MR 1")	260 LF

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY BRAKE DESIGN ENGINEER	DESIGN	BY E. NAHM	CHECKED T. BRAKE	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 40 BRIDGES GENERAL PLAN NO. 6
	DETAILS	BY T. DANG	CHECKED T. BRAKE	LAYOUT	BY T. DANG		54-0819L/R	
	QUANTITIES	BY E. NAHM	CHECKED T. BRAKE	SPECIFICATIONS	BY T. NEDWICK		POST MILE	
							R143.74	

PALO VERDE WASH BRIDGE

BR NO 54-0503L

BEAL WASH BRIDGE

BR NO 54-0502R

QUANTITIES	
RAPID SETTING CONCRETE (PATCH)	4 CF
REMOVE ASPHALT CONCRETE SURFACING	1,580 SQFT
REMOVE UNSOUND CONCRETE	4 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	1,580 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	316 CF
PLACE POLYESTER CONCRETE OVERLAY	1,580 SQFT
GRIND EXISTING BRIDGE DECK	27 SQYD

QUANTITIES	
RAPID SETTING CONCRETE (PATCH)	4 CF
REMOVE ASPHALT CONCRETE SURFACING	1,580 SQFT
REMOVE UNSOUND CONCRETE	4 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	1,580 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	316 CF
PLACE POLYESTER CONCRETE OVERLAY	1,580 SQFT
GRIND EXISTING BRIDGE DECK	27 SQYD

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.8/149.9	28	33

11/16/15
REGISTERED CIVIL ENGINEER DATE

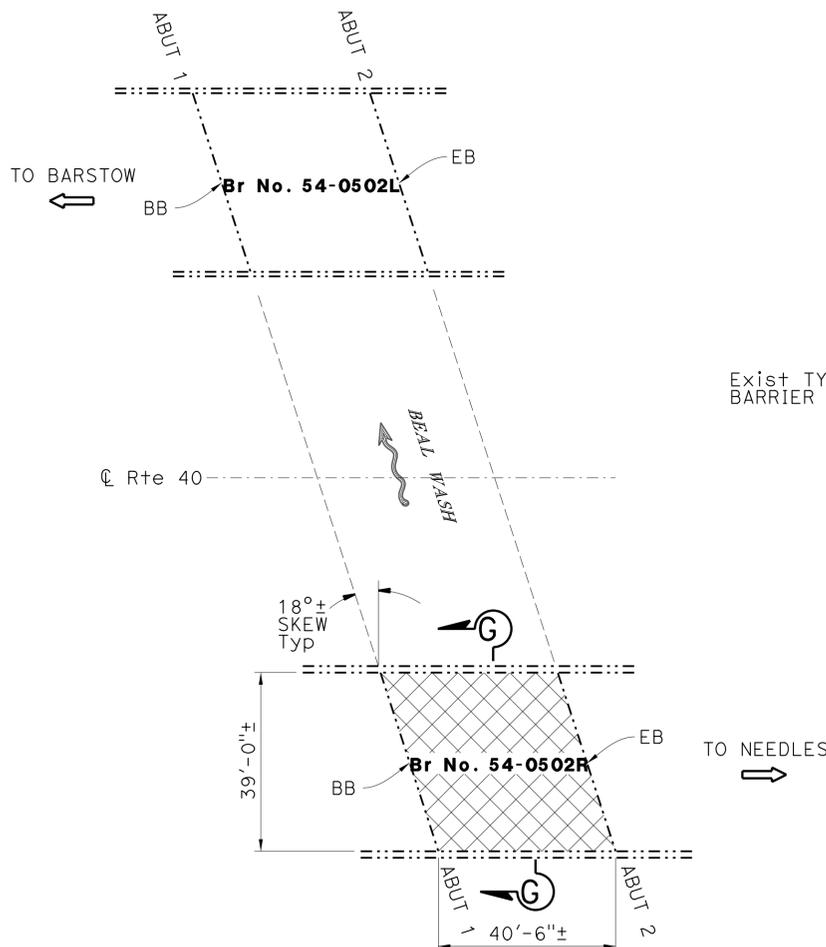
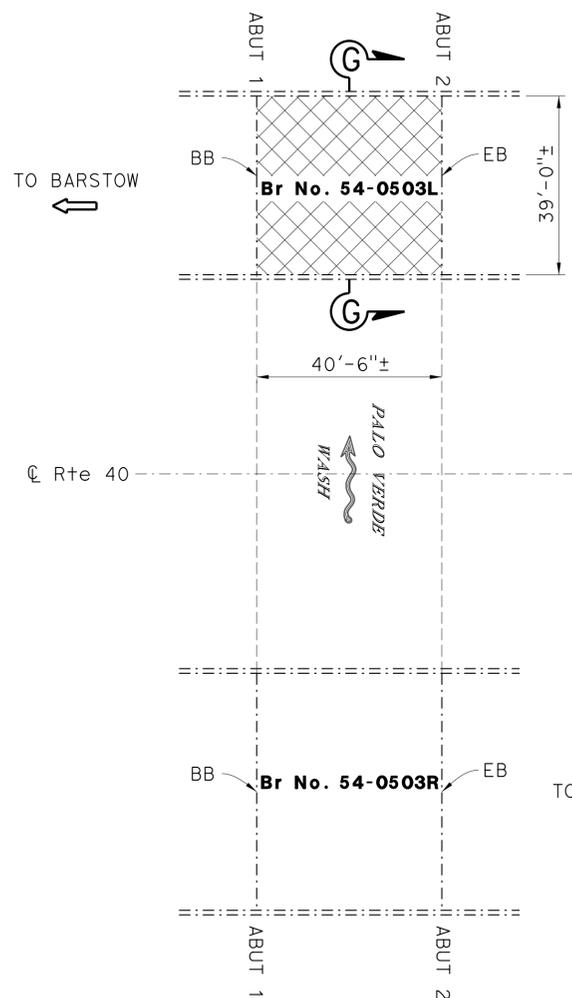
12/29/15
PLANS APPROVAL DATE

EDWARD J. NAHM
No. C66900
Exp. 09/30/16
CIVIL
STATE OF CALIFORNIA

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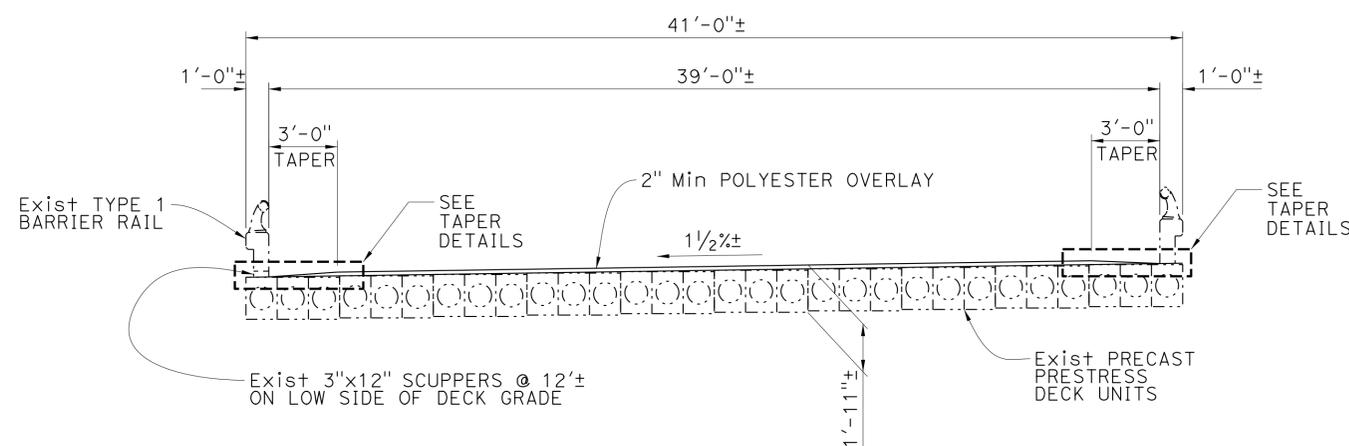
NOTES:

- For "DECK REPAIR DETAIL-OVERLAY", see "MISCELLANEOUS DETAILS NO. 2" sheet.



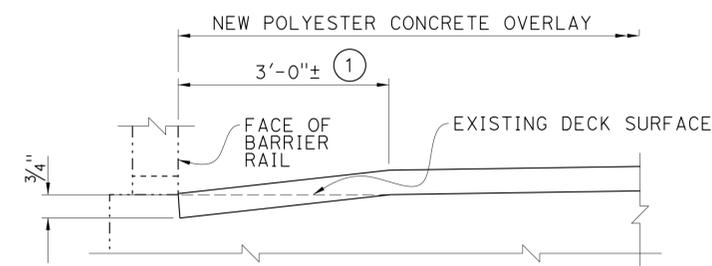
LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface, furnish and place new 2" thick min polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete.
- ▨ Indicates limits of removal of existing 2"± thick asphalt concrete overlay.
- ① Indicates limits of remove concrete deck surface 0 inch minimum to 3/4 inch maximum full length of bridge. Grind flush to conform with existing profile.



SECTION G-G

NO SCALE



TAPER DETAIL

Left side shown, Right side similar

PALO VERDE WASH

Br No. 54-0503L, Rte 40, PM R149.27
1" = 20'

BEAL WASH

Br No. 54-0502R, Rte 40, PM R149.85
1" = 20'

NOTE:
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DESIGN	BY E. NAHM	CHECKED T. BRAKE	LOAD FACTOR DESIGN	BY T. DANG	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY T. DANG	CHECKED T. BRAKE	LAYOUT	BY T. DANG	CHECKED E. NAHM
QUANTITIES	BY E. NAHM	CHECKED T. BRAKE	SPECIFICATIONS	BY T. NEDWICK	PLANS AND SPECS COMPARED T. NEDWICK

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

**ROUTE 40 BRIDGES
GENERAL PLAN NO. 7**

EPOXY CRACK INJECTION TABLE		
LOCATION	APPROX EPOXY INJECTION LENGTH	
SPAN 3	BAY 1	4'-0"±
	BAY 4	8'-0"±
WEST END BENT CAP	8'-0"±	
EAST END BENT CAP	10'-0"±	

LEGEND:

- Indicates existing.
-  Indicates limits of repair spalled surface area.
-  IC Indicates approximate location of epoxy crack injection limits.
- MVC Minimum Vertical Clearance, 17'-9"±
-  Indicates location of replace equalizing bolt (Tot 1).

NOTES:

- For location of SECTION A-A and SECTION B-B, see "GENERAL PLAN NO. 3" sheet.

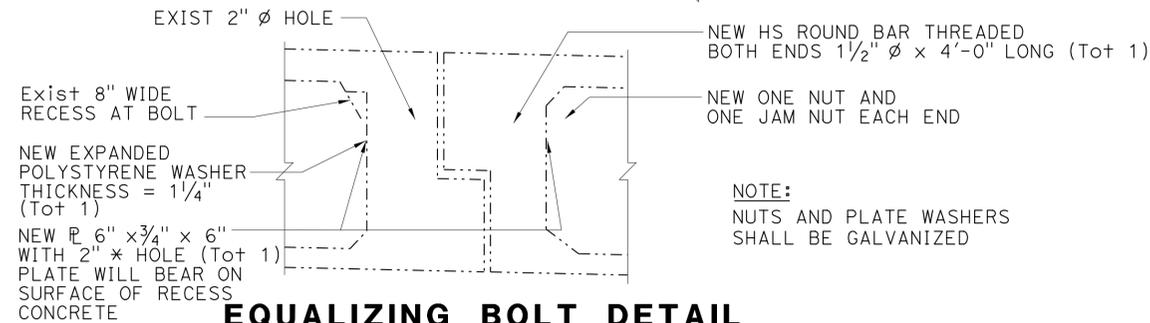
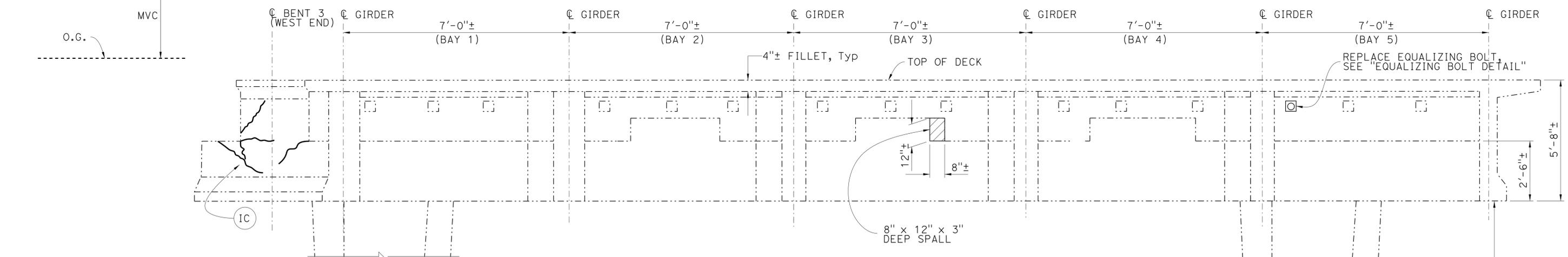
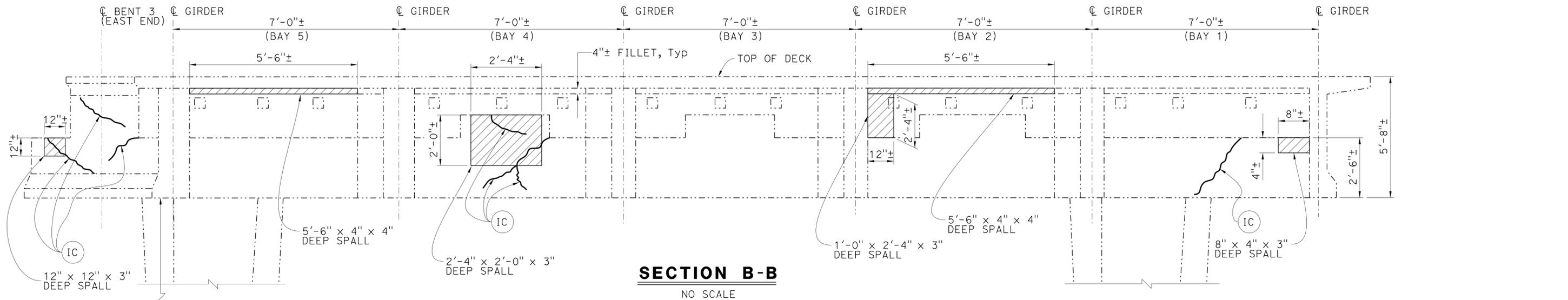
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	SBd	40	R105.8/149.9	29	33

11/16/15
 REGISTERED CIVIL ENGINEER DATE

12/29/15
 PLANS APPROVAL DATE

EDWARD J. NAHM
 No. C66900
 Exp. 09/30/16
 CIVIL
 STATE OF CALIFORNIA

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NOTE: THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

DESIGN	BY E. NAHM	CHECKED T. BRAKE
DETAILS	BY T. DANG	CHECKED T. BRAKE
QUANTITIES	BY E. NAHM	CHECKED T. BRAKE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	54-0808
POST MILE	R141.02

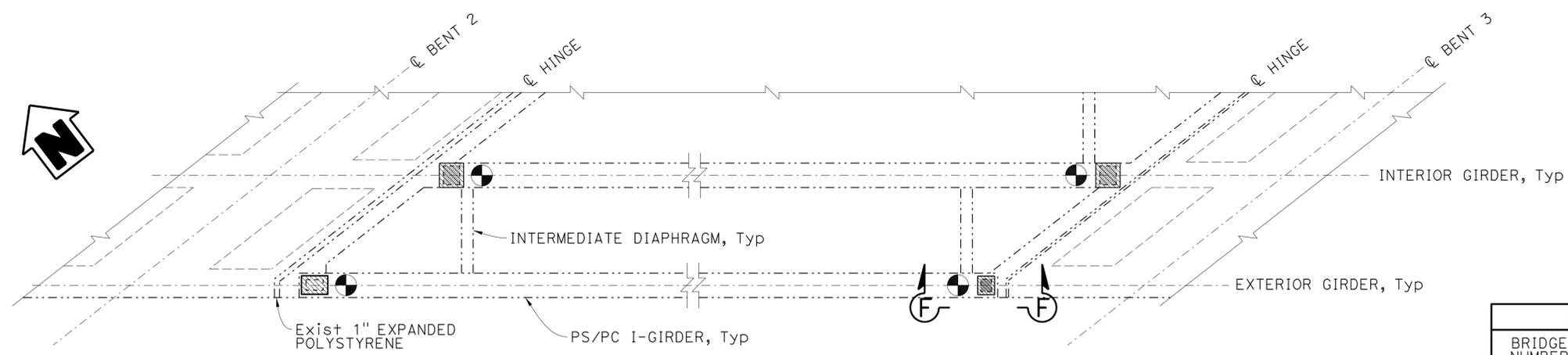
ROUTE 40 BRIDGES
 EPOXY CRACK INJECTION DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	SBd	40	R105.8/149.9	30	33

11/16/15
 REGISTERED CIVIL ENGINEER DATE
 12/29/15
 PLANS APPROVAL DATE

EDWARD J. NAHM
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 Exp. 09/30/16
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PART PLAN
NO SCALE
(Right bridge shown, left bridge similar)

TEMPORARY SUPPORT TABLE								
BRIDGE NAME	BRIDGE NUMBER	LOCATION	TOTAL			PER GIRDER		
			DL+LL+I (Kips)	DL (Kips)	LATERAL LOAD (Kips)	DL+LL+I (Kips)	DL (Kips)	LATERAL LOAD (Kips)
NEEDLE HIGHWAY UC	54-0812L	BENT 2	960	780	18	160	130	3
		BENT 3	960	780	18	160	130	3
	54-0812R	BENT 2	960	780	18	160	130	3
		BENT 3	960	780	18	160	130	3

ELASTOMERIC BEARING PAD TABLE						
BRIDGE NUMBER	LOCATION	ELASTOMERIC BEARING PAD	GALVANIZED SHEET METAL	*	**	
54-0812L	INTERIOR GIRDERS	1'-5" x 1'-0" x 1"	1'-7" x 1'-2" x 0.079"	1'-5"	1'-0"	
	EXTERIOR GIRDERS	11" x 1'-4" x 1"	1'-1" x 1'-6" x 0.079"	11"	1'-4"	
54-0812R	INTERIOR GIRDERS	1'-5" x 1'-0" x 1"	1'-7" x 1'-2" x 0.079"	1'-5"	1'-0"	
	EXTERIOR GIRDERS	11" x 1'-4" x 1"	1'-1" x 1'-1" x 0.079"	11"	1'-4"	

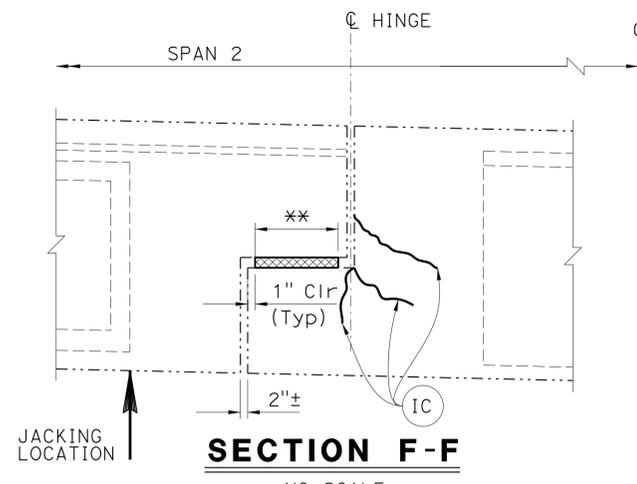
LEGEND:

- Indicates existing.
- Indicates location of remove existing elastomeric bearing pad and place new steel-reinforced elastomeric bearing pad.
- Indicates location of new galvanized sheet metal. Coat top of bearing pad with silicone grease prior to placing new galvanized sheet metal.
- ↑ OR Indicates location of Temporary Support System.
- ⊙ Indicates approximate location of epoxy crack injection limits.

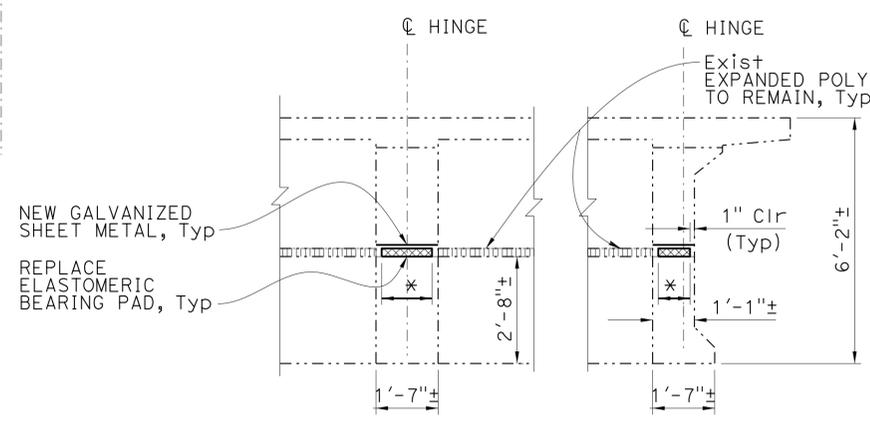
NOTES:

- The jacking force shall be applied to all jacks simultaneously.
- The total vertical lift shall be enough to release existing bearing pads and install new bearing pads, but no greater than 1/2 inch above final grade.
- The differential lift of girders once bearing on elastomeric bearing pads shall not exceed 1/16 inch.

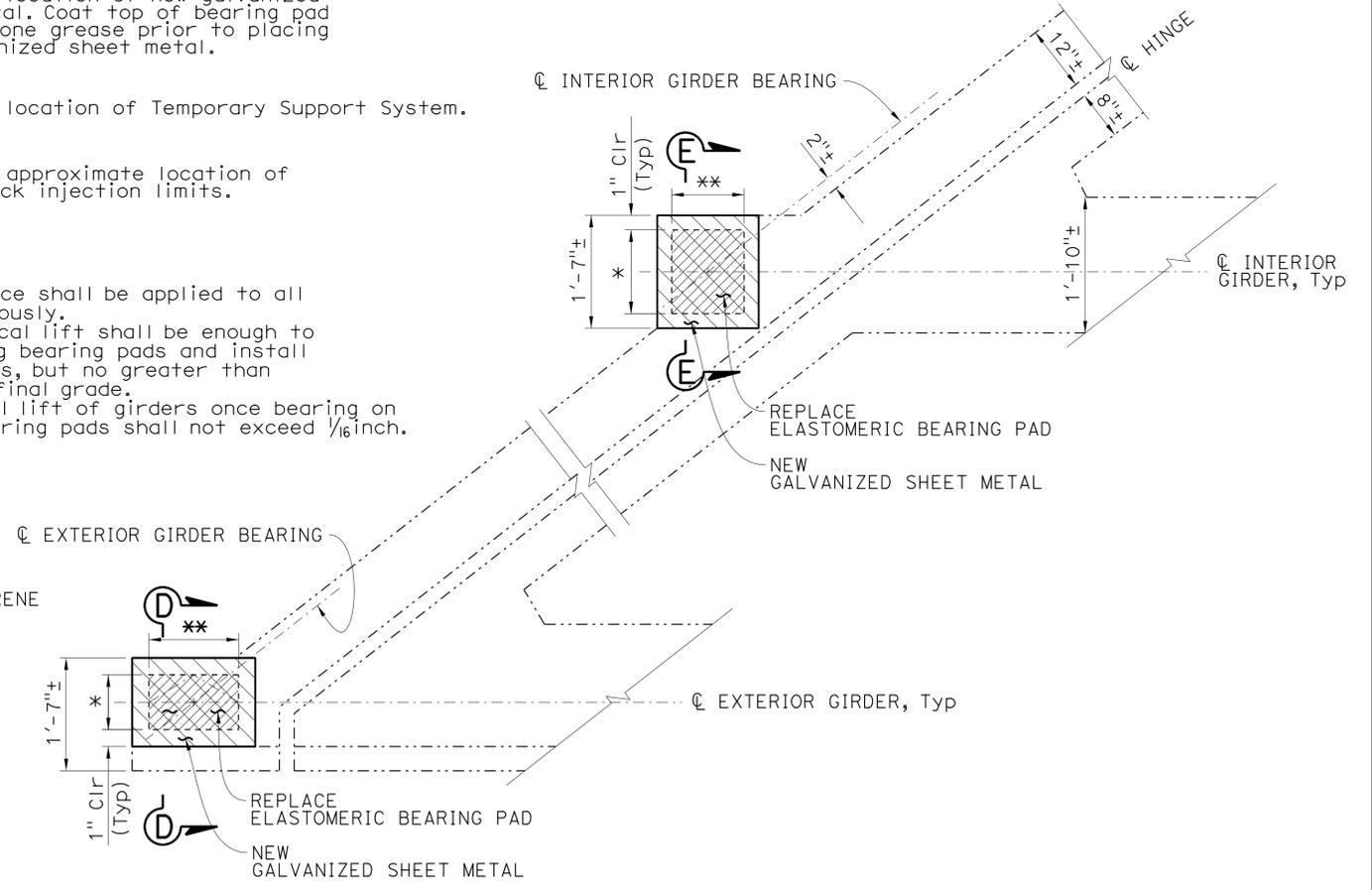
EPOXY CRACK INJECTION TABLE		
BRIDGE NUMBER	LOCATION	APPROX EPOXY INJECTION LENGTH
54-0812L	SOUTH END BENT 2	10'-0"
	SOUTH END BENT 3	10'-0"
	NORTH END BENT 2	10'-0"
	NORTH END BENT 3	10'-0"
54-0812R	SOUTH END BENT 2	10'-0"
	SOUTH END BENT 3	10'-0"
	NORTH END BENT 2	10'-0"
	NORTH END BENT 3	10'-0"



SECTION F-F
NO SCALE
(Hinge at Bent 3 shown, Hinge at Bent 2 similar)



SECTION E-E SECTION D-D
NO SCALE



HINGE BEARING PAD DETAILS
NO SCALE
(Hinge near Bent 3 shown, Hinge near Bent 2 similar)

NOTE: THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

DESIGN	BY E. NAHM	CHECKED T. BRAKE
DETAILS	BY T. DANG	CHECKED T. BRAKE
QUANTITIES	BY E. NAHM	CHECKED T. BRAKE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	54-0812L/R
POST MILE	R141.62

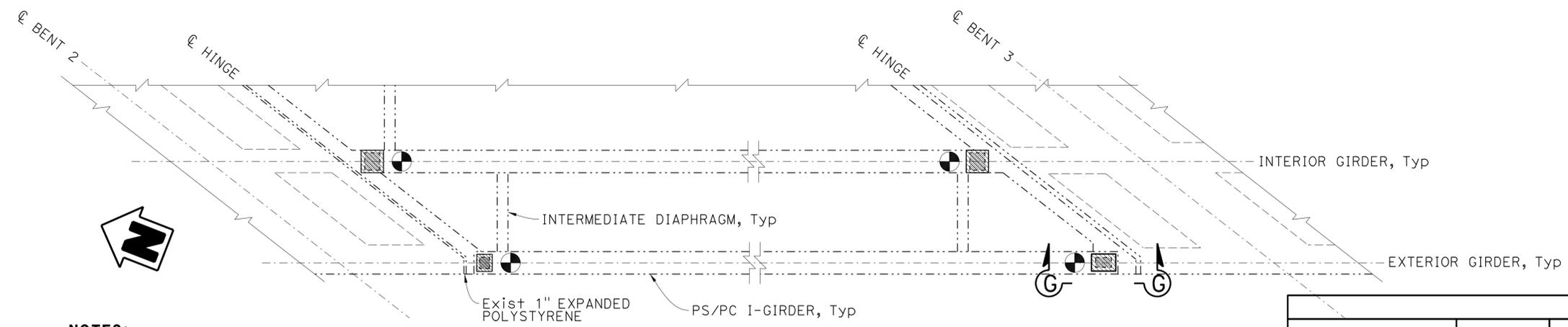
NEEDLES HIGHWAY UC
ROUTE 40 BRIDGES
BEARING REPLACEMENT DETAILS NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	SBd	40	R105.8/149.9	31	33

11/16/15
 REGISTERED CIVIL ENGINEER DATE
 12/29/15
 PLANS APPROVAL DATE

EDWARD J. NAHM
 No. C66900
 Exp. 09/30/16
 CIVIL
 STATE OF CALIFORNIA

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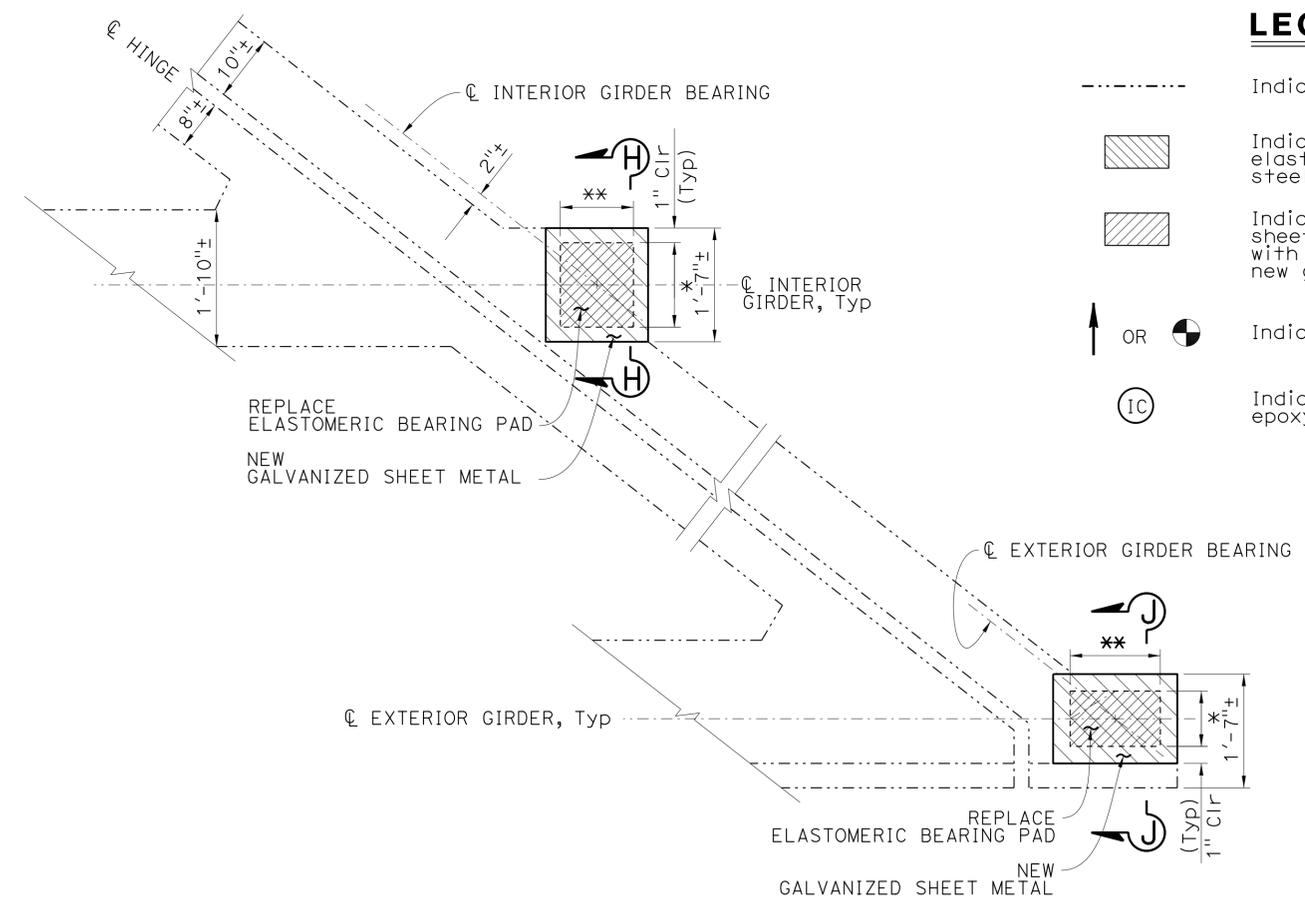
NOTES:

- The jacking force shall be applied to all jacks simultaneously.
- The total vertical lift shall be enough to release existing bearing pads and install new bearing pads, but no greater than 1/2 inch above final grade.
- The differential lift of girders once bearing on elastomeric bearing pads shall not exceed 1/16 inch.

BRIDGE NAME	BRIDGE NUMBER	LOCATION	TOTAL			PER GIRDER		
			DL+LL+I (Kips)	DL (Kips)	LATERAL LOAD (Kips)	DL+LL+I (Kips)	DL (Kips)	LATERAL LOAD (Kips)
ROUTE 40/95 SEPARATION	54-0819L	BENT 2	960	780	18	160	130	3
		BENT 3	960	780	18	160	130	3
	54-0819R	BENT 2	960	780	18	160	130	3
		BENT 3	960	780	18	160	130	3

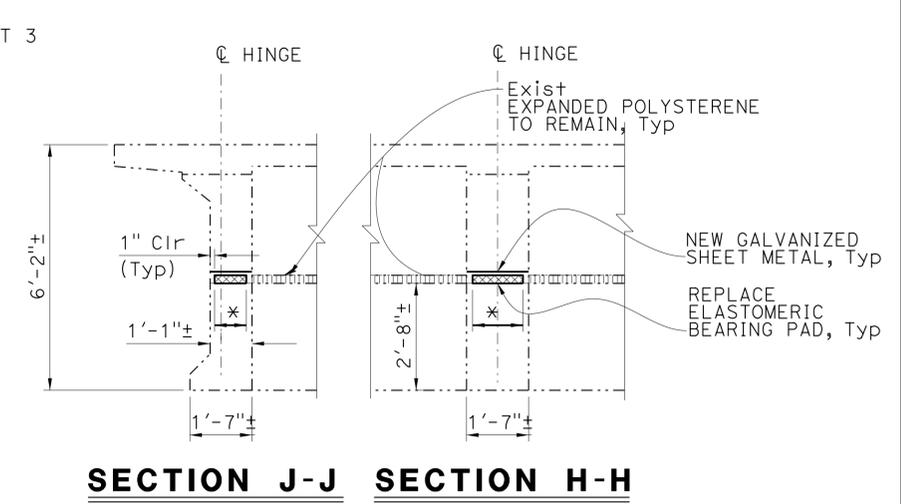
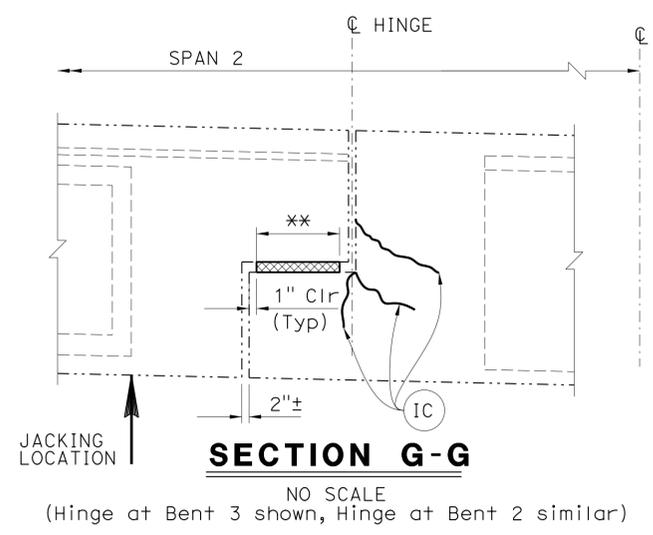
BRIDGE NUMBER	LOCATION	ELASTOMERIC BEARING PAD	GALVANIZED SHEET METAL	*	**
54-0819L	INTERIOR GIRDERS	1'-5" x 10" x 1"	1'-7" x 1'-0" x 0.079"	1'-5"	10"
	EXTERIOR GIRDERS	11" x 1'-2" x 1"	1'-1" x 1'-4" x 0.079"	11"	1'-2"
54-0819R	INTERIOR GIRDERS	1'-5" x 10" x 1"	1'-7" x 1'-0" x 0.079"	1'-5"	10"
	EXTERIOR GIRDERS	11" x 1'-2" x 1"	1'-1" x 1'-4" x 0.079"	11"	1'-2"

BRIDGE NUMBER	LOCATION	APPROX EPOXY INJECTION LENGTH
54-0819L	SOUTH END BENT 2	10'-0"
	SOUTH END BENT 3	10'-0"
	NORTH END BENT 2	10'-0"
	NORTH END BENT 3	10'-0"
54-0819R	SOUTH END BENT 2	10'-0"
	SOUTH END BENT 3	10'-0"
	NORTH END BENT 2	10'-0"
	NORTH END BENT 3	10'-0"



LEGEND:

- Indicates existing.
- [Hatched Box] Indicates location of remove existing elastomeric bearing pad and place new steel-reinforced elastomeric bearing pad.
- [Hatched Box] Indicates location of new galvanized sheet metal. Coat top of bearing pad with silicone grease prior to placing new galvanized sheet metal.
- ↑ OR [Circle with H] Indicates location of Temporary Support System.
- (IC) Indicates approximate location of epoxy crack injection limits.



ROUTE 40/95 SEPARATION
ROUTE 40 BRIDGES
BEARING REPLACEMENT DETAILS NO. 2

NOTE: THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

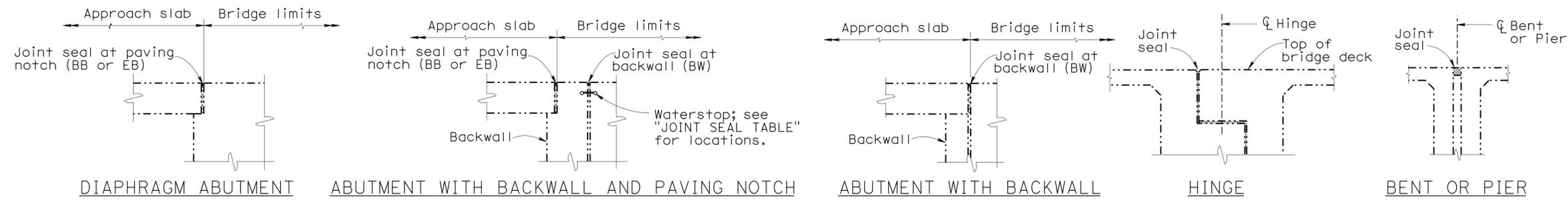
DESIGN	BY E. NAHM	CHECKED T. BRAKE
DETAILS	BY T. DANG	CHECKED T. BRAKE
QUANTITIES	BY E. NAHM	CHECKED T. BRAKE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. 54-0819L/R
	POST MILE R143.74

UNIT: 3489
 PROJECT NUMBER & PHASE: 081500005-1
 CONTRACT NO.: 08-1F6304

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 10 OF 12
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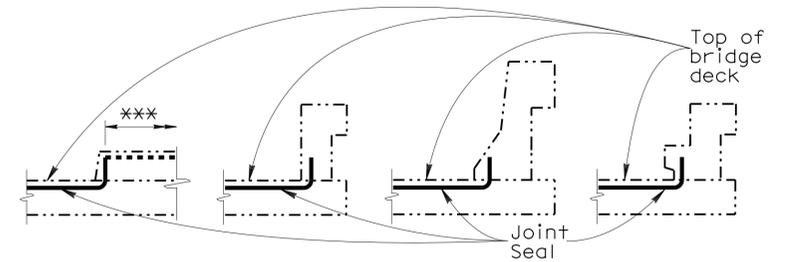
JOINT SEAL LOCATION

NO SCALE
 Abutment joint seal is not required with AC roadway pavement transverse contact joint.

JOINT SEAL TABLE								
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	Approx LENGTH (LF)	EXISTING WATERSTOP	Approx DEPTH TO CLEAN Exp JOINT (INCHES)	LENGTH TO CLEAN Exp JOINT (LF)
NEEDLE HIGHWAY UC	54-0812L	BENT 2	HINGE	1	68	NO	6	68
		BENT 3	HINGE	1	68	NO	6	68
	54-0812R	BENT 2	HINGE	1	68	NO	6	68
		BENT 3	HINGE	1	68	NO	6	68
ROUTE 40/95 SEPARATION	54-0819L	BENT 2	HINGE	1	65	NO	6	65
		BENT 3	HINGE	1	65	NO	6	65
	54-0819R	BENT 2	HINGE	1	65	NO	6	65
		BENT 3	HINGE	1	65	NO	6	65

NOTES:

- The following notes apply to JOINT SEAL TYPE A:
- Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.
 - For details not shown see, Standard Plan B6-21.
- 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 recalculated by the Engineer.
 - 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 3.0 PSI.
 - Bend Type B joint seal 6 inches 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, Standard Plan B6-21.



JOINT SEAL AT LOW SIDE OF DECK

NO SCALE
 Note: Details shown for illustration purposes only.
 For use only where deck joint matches the sidewalk, curb or barrier rail joint.
 *** Extension of joint seal will be determined by the Engineer if necessary.

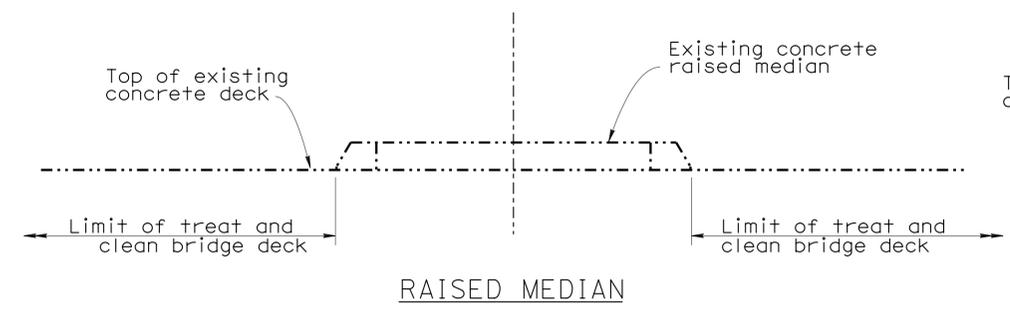
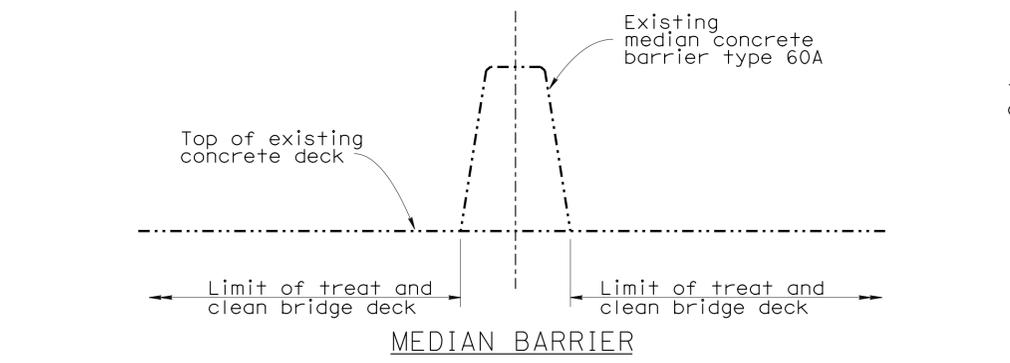
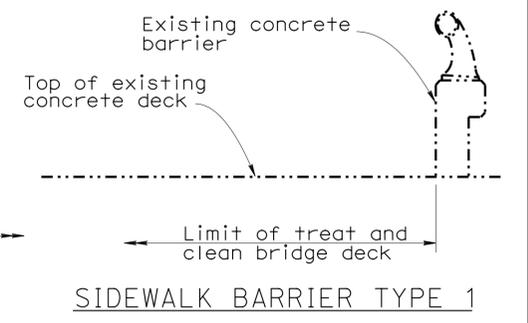
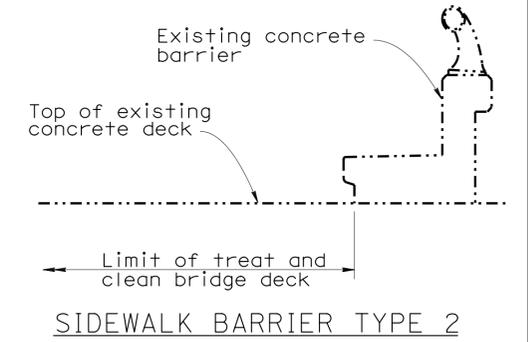
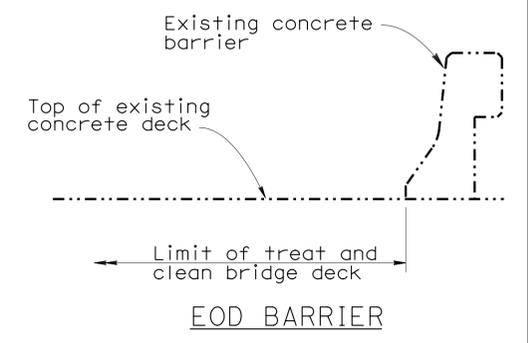
NOTE:
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	SBd	40	R105.8/149.9	33	33
			11/16/15		
			REGISTERED CIVIL ENGINEER		
			12/29/15		
			PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small>					

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

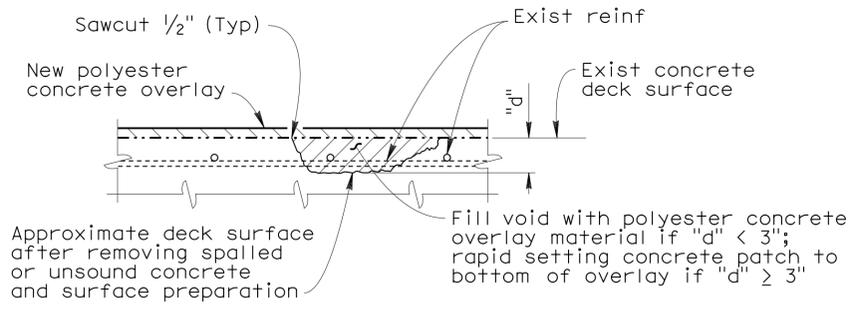
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCH)
BUZZARD WASH	54-0700L	1	3
"S" STREET CHANNEL	54-0811L	1	3
PALO VERDE WASH	54-0503L	1	3
BEAL WASH	54-0502R	1	3

- CONSTRUCTION NOTES:
- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
 - It is responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
 - When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
 - The saw cut depth shall not exceed 1/2 inch or the concrete cover over the top steel reinforcing bars, whichever is less.
 - Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original spall surface with rapid setting concrete patch.



TYPICAL LIMITS OF DECK WORK

NO SCALE



DECK REPAIR DETAIL - OVERLAY

NO SCALE
(Br No. 54-0700L, 54-0811L, 54-0503L, 54-0502R)
Reinforcement may be encountered during deck concrete removal.

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DESIGN</td> <td style="width: 30%;">BY E. NAHM</td> <td style="width: 30%;">CHECKED T. BRAKE</td> </tr> <tr> <td>DETAILS</td> <td>BY T. DANG</td> <td>CHECKED T. BRAKE</td> </tr> <tr> <td>QUANTITIES</td> <td>BY E. NAHM</td> <td>CHECKED T. BRAKE</td> </tr> </table>	DESIGN	BY E. NAHM	CHECKED T. BRAKE	DETAILS	BY T. DANG	CHECKED T. BRAKE	QUANTITIES	BY E. NAHM	CHECKED T. BRAKE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various POST MILE Varies	ROUTE 40 BRIDGES MISCELLANEOUS DETAILS NO. 2
DESIGN	BY E. NAHM	CHECKED T. BRAKE											
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STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 081500005-1 CONTRACT NO.: 08-1F6304	DISREGARD PRINTS BEARING EARLIER REVISION DATES									
			REVISION DATES	SHEET 12 OF 12									