Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	1	20

INDEX OF PLANS

SHEET No	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION DETAILS
3-5	CONSTRUCTION AREA SIGNS
6	TRAFFIC HANDLING PLAN AND QUANTITIES
7	SUMMARY OF QUANTITIES
8-14	REVISED STANDARD PLANS
	STRUCTURE PLANS
15-20	ROUTE 101 BRIDGES GENERAL PLANS AND DETAILS

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

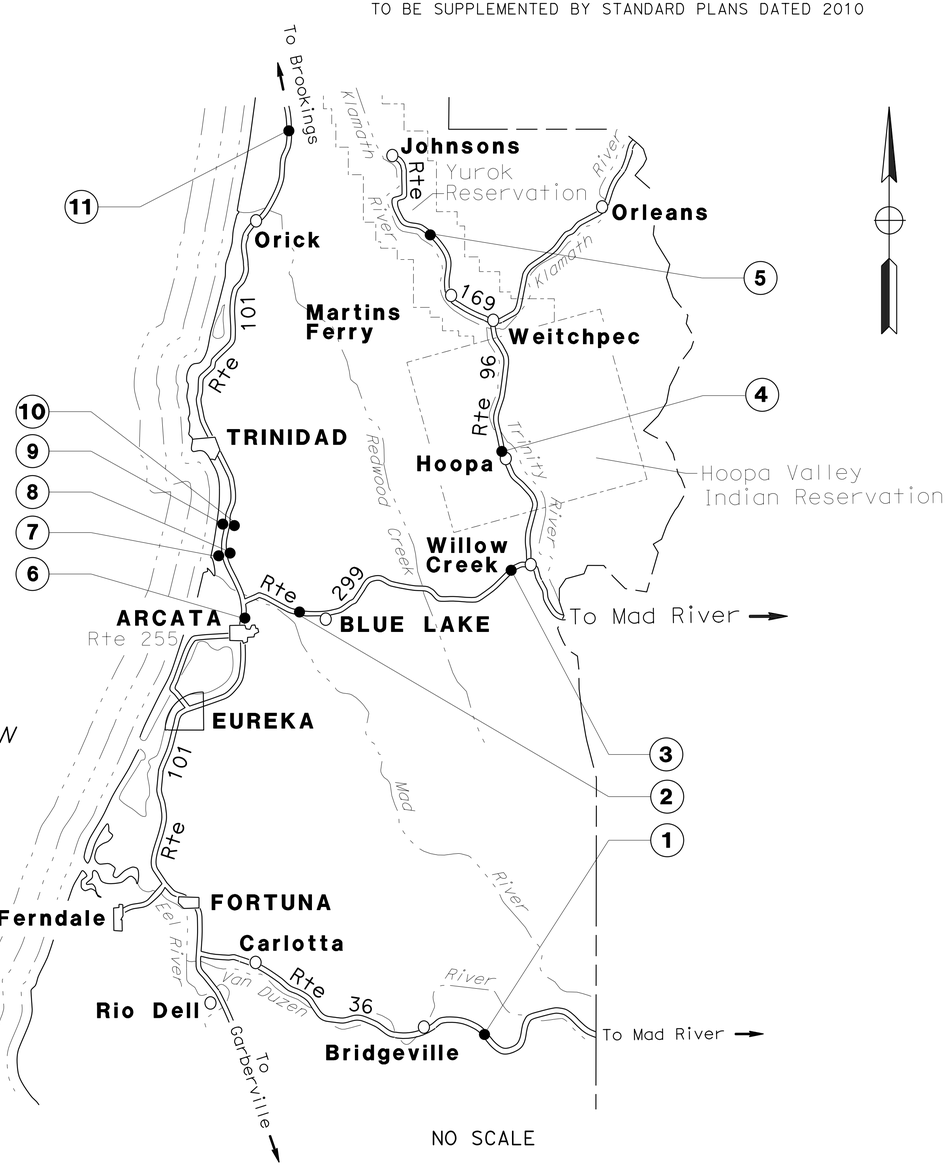
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN HUMBOLDT COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP



NO SCALE

LOCATIONS OF CONSTRUCTION

LOCATION	COUNTY	ROUTE	PM	BRIDGE NAME	BRIDGE No.
1	Hum	36	35.4	SOUTH FORK VAN DUZEN RIVER	04-0119
2	Hum	299	R5.5	BLUE LAKE UC	04-0193
3	Hum	299	33.2	EAST FORK WILLOW CREEK	04-0115
4	Hum	96	R13.3	HOSTLER CREEK	04-0294
5	Hum	169	27.0	MINERS CREEK	04-0299
6	Hum	101	86.5	14TH STREET OC	04-0245
7	Hum	101	R93.9	AIRPORT ROAD UC	04-0169L
8	Hum	101	R93.9	AIRPORT ROAD UC	04-0169R
9	Hum	101	R95.6	NORTH CENTRAL Ave UC	04-0095L
10	Hum	101	R95.6	NORTH CENTRAL Ave UC	04-0095R
11	Hum	101	R128.9	BOYES CREEK VIADUCT	04-0286

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

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 3-25-15

March 25, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — BRENDA HARWELL — No. 64471 — Exp. 6-30-15 — 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.

CONTRACT No.	01-0B2404
PROJECT ID	0112000007

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DESIGN MANAGER T. Fitzgerald — PROJECT MANAGER T. Fitzgerald

LAST REVISION 00-00-00 — DATE PLOTTED => 26-MAR-2015 — TIME PLOTTED => 15:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	2	20

REGISTERED CIVIL ENGINEER 3-25-15 DATE

March 25, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRENDA HARWELL No. 64471 Exp. 6-30-15 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.

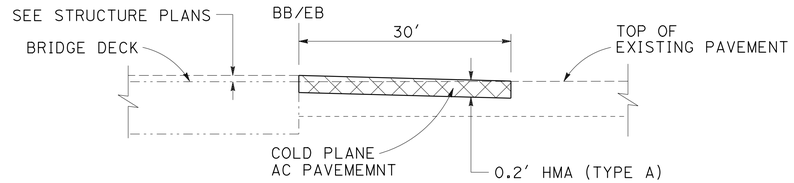
NOTES:

1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS SHEET.
2. FOR STRUCTURE WORK, SEE STRUCTURE PLANS.

LEGEND

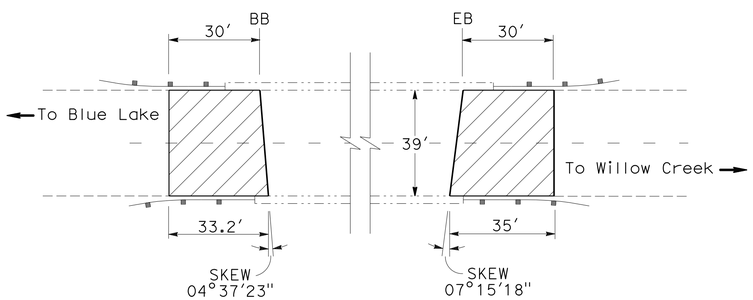
HMA (TYPE A)

COLD PLANE AC AND PLACE HMA (TYPE A)



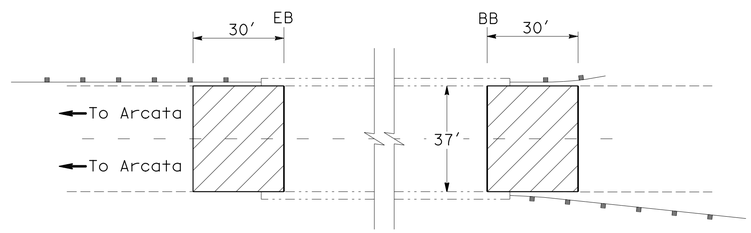
ELEVATION

LOCATIONS 3, 7, 8, 9, 10



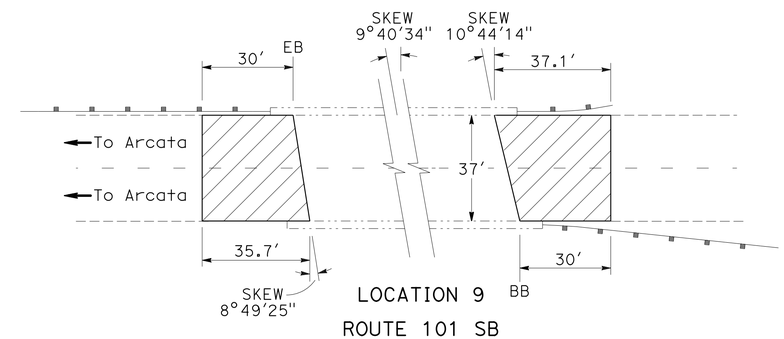
LOCATION 3
ROUTE 299

EAST FORK WILLOW Crk Br
BRIDGE No. 04-0115



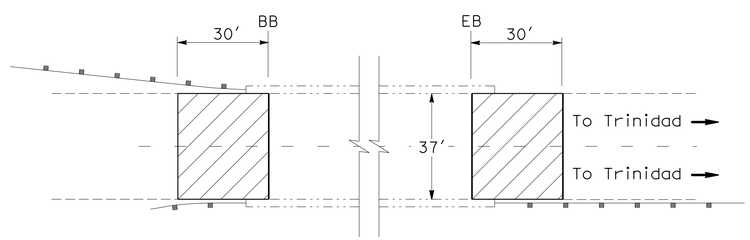
LOCATION 7

ROUTE 101 SB
AIRPORT Rd UC
BRIDGE No. 04-0169L



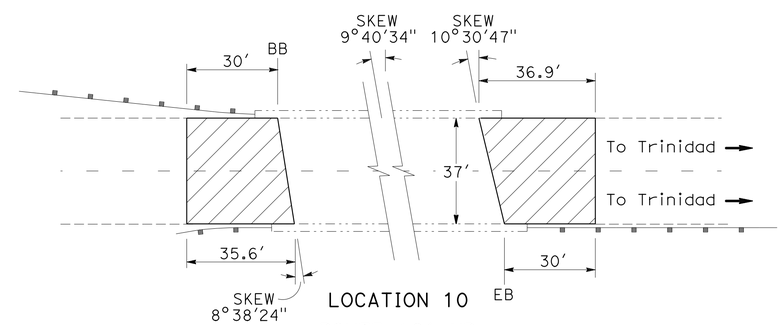
LOCATION 9

ROUTE 101 SB
NORTH CENTRAL Ave UC
BRIDGE No. 04-0095L



LOCATION 8

ROUTE 101 NB
AIRPORT Rd UC
BRIDGE No. 04-0169R



LOCATION 10

ROUTE 101 NB
NORTH CENTRAL Ave UC
BRIDGE No. 04-0095R

PLAN VIEWS

CONSTRUCTION DETAILS

NO SCALE

C-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

REVISED BY | DATE REVISED
BRENDA HARWELL | JOHNATHON JACKSON
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: T. Fitzgerald

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	3	20

REGISTERED CIVIL ENGINEER 3-25-15 DATE

March 25, 2015
PLANS APPROVAL DATE

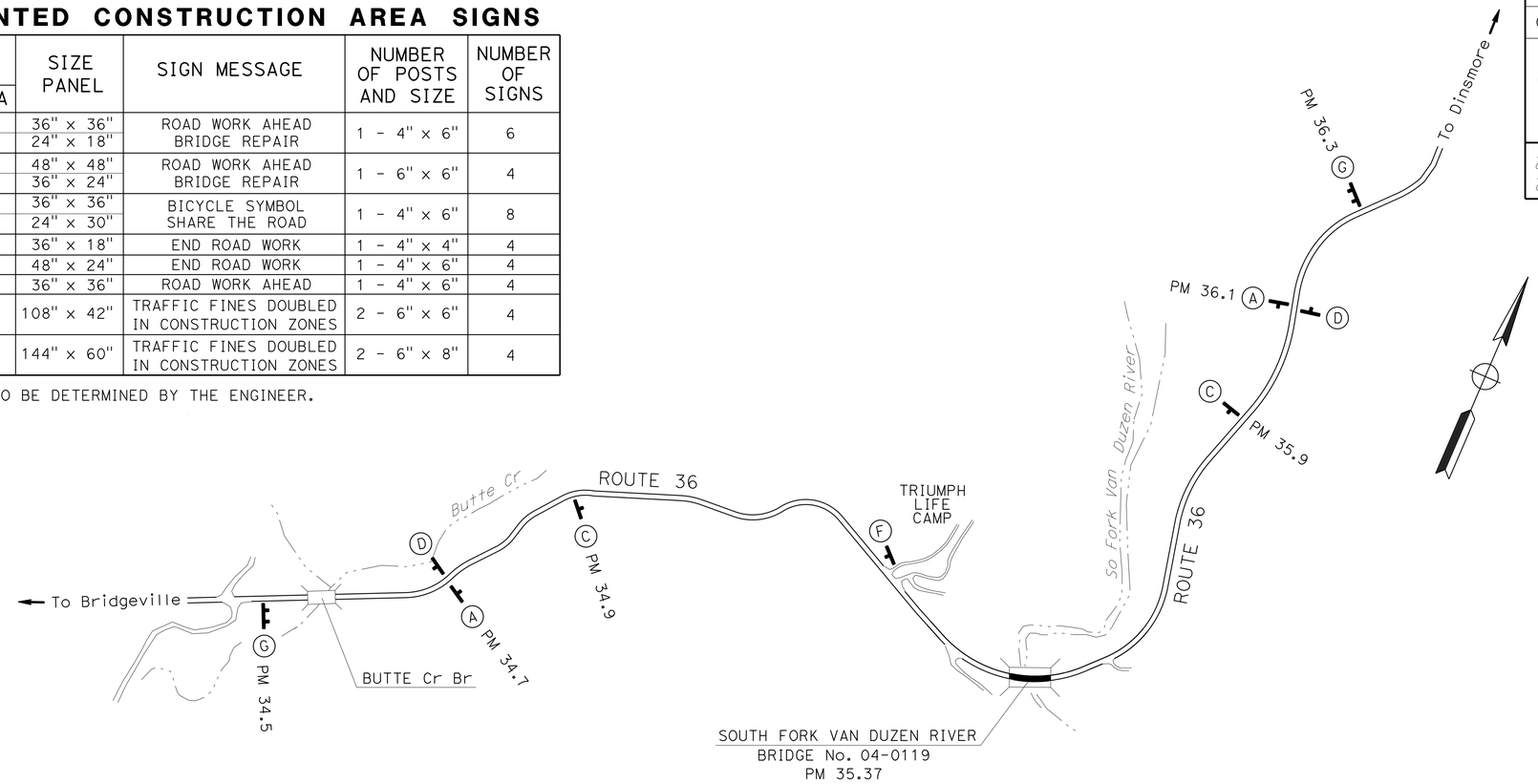
REGISTERED PROFESSIONAL ENGINEER BRENDA HARWELL No. 64471 Exp. 6-30-15 CIVIL STATE OF CALIFORNIA

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.

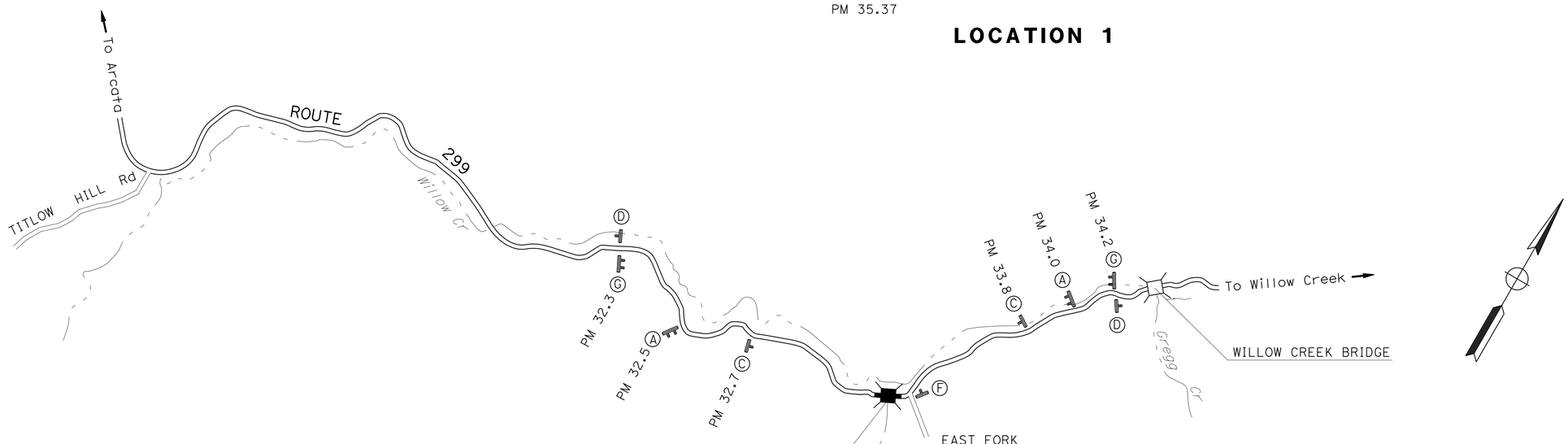
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIZE PANEL	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	W20-1	C23B(CA)	36" x 36" 24" x 18"	ROAD WORK AHEAD BRIDGE REPAIR	1 - 4" x 6"	6
B	W20-1	C23B(CA)	48" x 48" 36" x 24"	ROAD WORK AHEAD BRIDGE REPAIR	1 - 6" x 6"	4
C	W11-1 W16-1		36" x 36" 24" x 30"	BICYCLE SYMBOL SHARE THE ROAD	1 - 4" x 6"	8
D	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	4
E	G20-2		48" x 24"	END ROAD WORK	1 - 4" x 6"	4
F	W20-1	C40(CA)	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	4
G			108" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 6"	4
H		C40(CA)	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	4

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



LOCATION 1



LOCATION 3

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

REVISED BY | DATE REVISED
BRENDA HARWELL | JOHNATHON JACKSON
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: T. Fitzgerald

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

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BORDER LAST REVISED 7/2/2010 | USERNAME => s120115 | DGN FILE => 01120000071a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 01120000071

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	4	20

REGISTERED CIVIL ENGINEER 3-25-15 DATE

March 25, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRENDA HARWELL No. 64471 Exp. 6-30-15 CIVIL STATE OF CALIFORNIA

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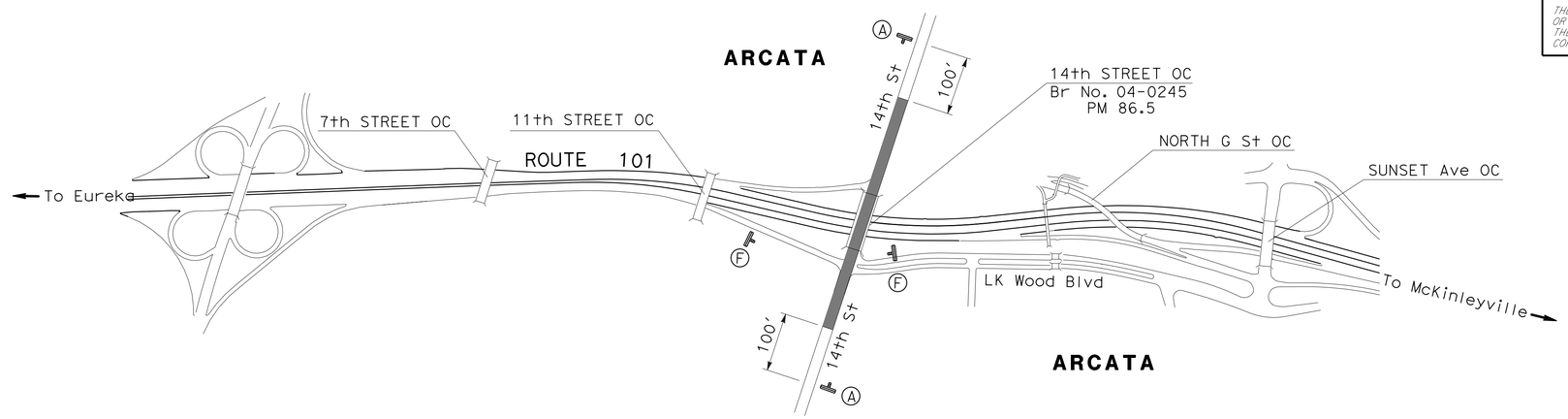
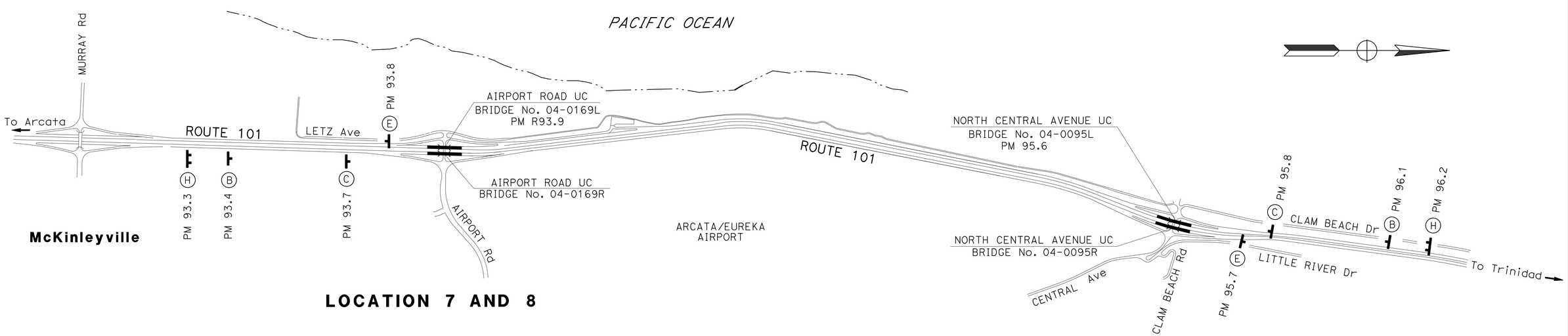


LOCATION 6



LOCATION 7 AND 8

LOCATION 9 AND 10

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

REVISED BY | DATE REVISED
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FUNCTIONAL SUPERVISOR: T. Fitzgerald

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	5	20

REGISTERED CIVIL ENGINEER 3-25-15 DATE

March 25, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
BRENDA HARWELL
No. 64471
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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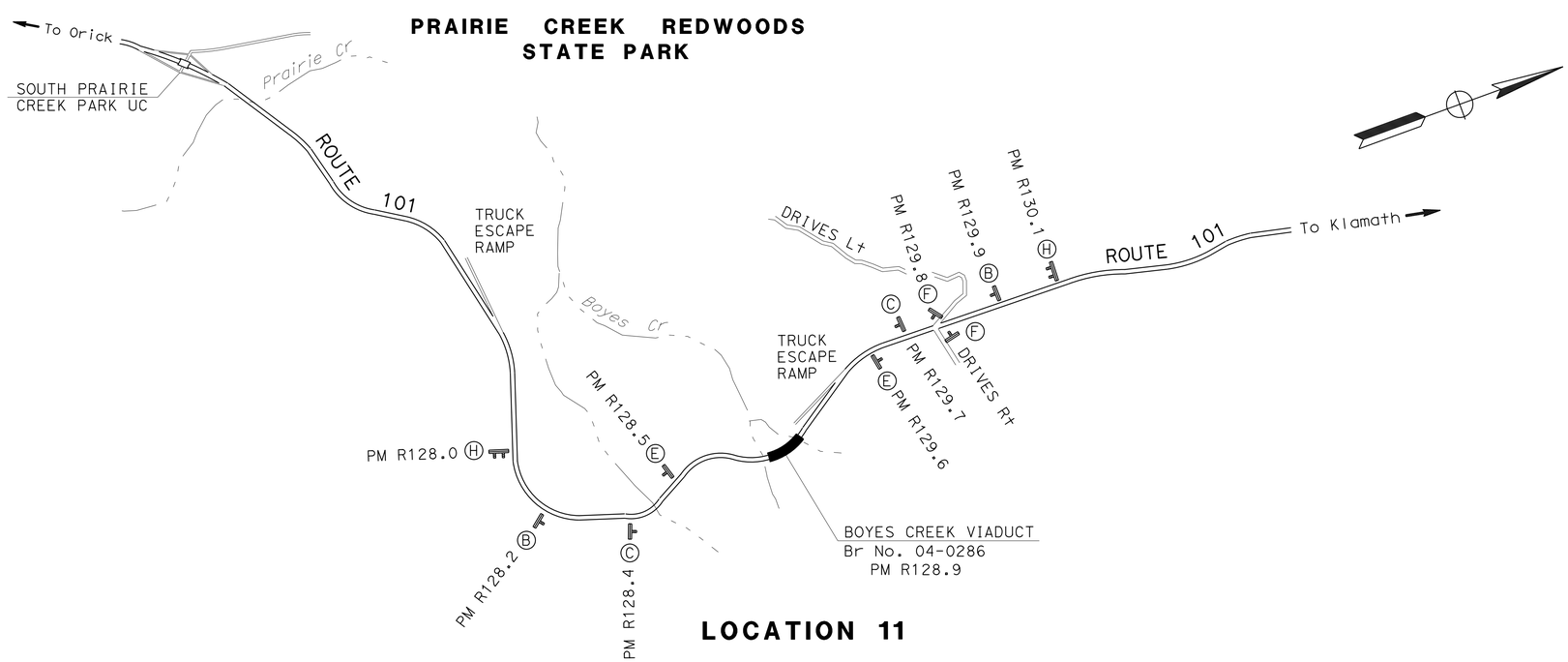

CONSTRUCTION AREA SIGNS

NO SCALE

CS-3

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: T. Fitzgerald
CALCULATED-DESIGNED BY: BRENDA HARWELL
CHECKED BY: JOHNATHON JACKSON
REVISED BY
DATE REVISED

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LAST REVISION 00-00-00
DATE PLOTTED => 26-MAR-2015
TIME PLOTTED => 15:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	6	20

Sheri M. Rodriguez 3-5-15
REGISTERED CIVIL ENGINEER DATE

March 25, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SHERI M. RODRIGUEZ No. C66861 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA

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

NOTES:

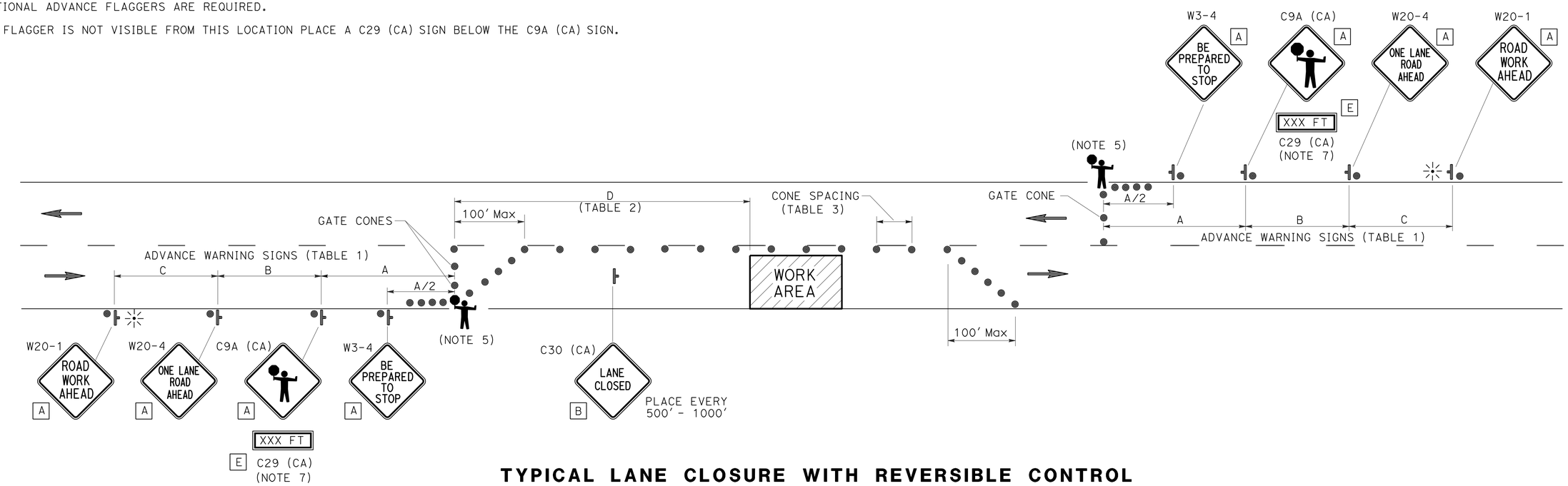
1. CALIFORNIA CODES ARE DESIGNATED BY (CA). OTHERWISE, FEDERAL (MUTCD) CODES ARE SHOWN.
2. ALL SIGNS SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE BACKGROUND AND SHALL BE EQUIPPED WITH AT LEAST TWO 16" x 16" ORANGE FLAGS FOR DAYTIME CLOSURE OR FLASHING BEACONS FOR LANE CLOSURE DURING HOURS OF DARKNESS.
3. ALL CONES USED FOR LANE CLOSURES DURING THE HOURS OF DARKNESS SHALL BE FITTED WITH RETROREFLECTIVE BANDS OR SLEEVES.
4. WHEN A PILOT CAR IS USED, PLACE A C37 (CA) SIGN AT ALL INTERSECTIONS WITHIN TRAFFIC CONTROL AREA. WHERE VEHICULAR TRAFFIC CAN NOT EFFECTIVELY SELF-REGULATE, AT LEAST ONE FLAGGER SHALL BE USED AT EACH INTERSECTION WITHIN THE TRAFFIC CONTROL AREA.
5. FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, FACING TRAFFIC AT ALL TIMES, BE VISIBLE TO APPROACHING TRAFFIC AS WELL AS APPROACHING VEHICLES AFTER THE FIRST VEHICLE HAS STOPPED.
6. ADDITIONAL ADVANCE FLAGGERS ARE REQUIRED.
7. WHEN FLAGGER IS NOT VISIBLE FROM THIS LOCATION PLACE A C29 (CA) SIGN BELOW THE C9A (CA) SIGN.

LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- DIRECTION OF TRAVEL
- PORTABLE FLASHING BEACON
- FLAGGER

SIGN PANEL SIZE (MINIMUM)

A	48" x 48" - SPEED OF 45 mph OR MORE 36" x 36" - SPEED LESS THAN 45 mph
B	30" x 30"
C	UNUSED
D	UNUSED
E	20" x 7"



TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TABLE 1

ADVANCE WARNING SIGN SPACING

ROAD TYPE	Min A	Min B	Min C
	ft		
URBAN (25 mph OR LESS)	100	100	100
URBAN (30 mph TO 40 mph)	250	250	250
URBAN (MORE THAN 40 mph)	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

TABLE 2

BUFFER SPACE

APPROACH SPEED	Min D	DOWNGRADE Min D		
		-3%*	-6%*	-9%*
mph	ft			
25 & BELOW	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

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

TABLE 3

Max CONE SPACING

POSTED SPEED	TAPER	TANGENT	CONFLICT*
mph	ft		
20	20	40	10
25	25	50	12
30	30	60	15
35	35	70	17
40	40	80	20
45	45	90	22
50	50	100	25
55	55	110	27
60	60	120	30
65	65	130	32

* USE WHERE THERE IS A CONFLICT BETWEEN EXISTING PAVEMENT MARKINGS AND CHANNELIZERS.

TRAFFIC HANDLING PLAN

NO SCALE

TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

REVISED BY | DATE REVISED

SHERI M. RODRIGUEZ | TROY A. ARSENEAU

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: RICHARD MULLEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

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LAST REVISION 03-05-15 | DATE PLOTTED => 26-MAR-2015 | TIME PLOTTED => 15:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	7	20

REGISTERED CIVIL ENGINEER 3-25-15 DATE

March 25, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRENDA HARWELL No. 64471 Exp. 6-30-15 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.

THERMOPLASTIC PAVEMENT MARKING

LOCATION No.	LOCATION PM	ORIENTATION	LEGEND	THERMOPLASTIC PAVEMENT MARKING SQFT	REMARKS
6	86.50	FEBT	TYPE I (10'-0") ARROW	14	Br No 04-0245 14TH STREET OC
	86.50	FEBT	TYPE IV (L) ARROW	15	
	86.50	FWBT	TYPE IV (L) ARROW	15	
			TOTAL	44	

ROADWAY QUANTITIES

LOCATION No.	LOCATION Rte	LOCATION PM	OFFSET	WIDTH (N)	COLD PLANE ASPHALT CONCRETE PAVEMENT SQYD	HOT MIX ASPHALT (TYPE A) TON	TACK COAT	REMARKS
3	299	33.21		39	146	17.5	0.1	Br No.04-0115 BB WILLOW Crk
		33.24		39	148	18.2	0.1	Br No.04-0115 EB WILLOW Crk
7	101	R93.85	L+	37	124	14.1	0.1	Br No.04-0169L BB AIRPORT Rd UC
		R93.87	L+	37	124	14.1	0.1	Br No.04-0169L EB AIRPORT Rd UC
8	101	R93.85	R+	37	124	14.1	0.1	Br No.04-0169R BB AIRPORT Rd UC
		R93.87	R+	37	124	14.1	0.1	Br No.04-0169R EB AIRPORT Rd UC
9	101	R95.62	L+	37	143	17.7	0.1	Br No.04-0095L BB
		R95.64	L+	37	147	18.5	0.1	Br No.04-0095L EB No CENTRAL Ave UC
10	101	R95.62	R+	37	143	17.7	0.1	Br No.04-0095R BB No CENTRAL Ave UC
		R95.64	R+	37	145	18.2	0.1	Br No.04-0095R EB No CENTRAL Ave UC
				TOTAL	1368	164.2	1.0	

CONSTRUCTION SITE BMP

LOCATION No.	LOCATION Rte	PM FROM	PM TO	ABUTMENT		TEMPORARY FIBER ROLL LF
1	36	35.37	35.41	Abut 1	BB	50
				Abut 3	EB	50
3	299	33.21	33.24	Abut 1	BB	50
				Abut 4	EB	50
4	96	R13.26	R13.28	Abut 1	BB	50
				Abut 2	EB	50
5	169	26.97	27.02	Abut 1	BB	50
				Abut 4	EB	50
				TOTAL		400

THERMOPLASTIC TRAFFIC STRIPE AND PAVEMENT MARKERS

LOCATION No.	LOCATION Rte	LOCATION PM FROM	LOCATION PM TO	OFFSET	Det No.	Det L (N)	THERMOPLASTIC TRAFFIC STRIPE REMOVE YELLOW (HAZARDOUS WASTE)	REMOVE YELLOW	REMOVE WHITE	4" SOLID YELLOW	4" SOLID WHITE	4" (BROKEN 36-12) WHITE	6" SOLID WHITE	8" SOLID WHITE	PAVEMENT MARKERS REMOVE TYPE A	REMOVE TYPE D	REMOVE TYPE G	REMOVE TYPE H	NON-REFLECTIVE TYPE A	RETROREFLECTIVE TYPE D	RETROREFLECTIVE TYPE G	RETROREFLECTIVE TYPE H	RETROREFLECTIVE RECESSED TYPE D	RETROREFLECTIVE RECESSED TYPE G	RETROREFLECTIVE RECESSED TYPE H
						LF									EA										
1	36	35.37	35.41		22	206				432													26		
					27B	412					412														
3	299	33.21	33.24		22	191				381										18					
					27B	381					381														
6	101	86.50	86.64		22	216		80		432						6				6					
					27B	732			432		732														
					29	175		700		700						18				18					
					38	181			28					181			2				2				
					39	358			324				358												
7	101	R93.85	R93.87	L+	11/13	180			48			180			16		5		16		5				
					25	176	112			176								5				5			
					27B	176			112		176														
8	101	R93.85	R93.87	R+	11/13	180						180							16		5				
					25	176				176												5			
					27B	176					176														
9	101	R95.62	R95.64	L+	11/13	192			48			192			16		5		16		5				
					25	189	118			189								5				5			
					27B	189			118		189														
10	101	R95.62	R95.64	R+	11/13	192						192							16		5				
					25	187				187												5			
					27B	187					187														
11	101	R128.97	R129.21		12	2568			648			2568					56							56	
					25A	2558	2558			2558								110							110
					27B	2558			2558		2558														
					SUBTOTAL		2788	780	4316	5231	4811	3312	358	181	32	24	68	120	64	42	22	20	26	56	110
					TOTAL		2788	5096		10042		3312	358	181	244				64	84			192		

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

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED
BRENDA HARWELL | JOHNATHON JACKSON
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: T. Fitzgerald

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

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LAST REVISION 00-00-00 | DATE PLOTTED => 26-MAR-2015 | TIME PLOTTED => 15:03

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
Mtl	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

Oblr	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 Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
₱,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE,
	TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE,
	PLASTIC PIPE,
	POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED,
	REINFORCEMENT,
	REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT,
	REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION,
	REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD,
	RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

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

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE,
	TRAFFIC SIGNAL,
	TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE,
	DESIGN SPEED
Var	VARIABLE,
	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST,
	WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	8	20

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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 3-25-15

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

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

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

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6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	9	20

REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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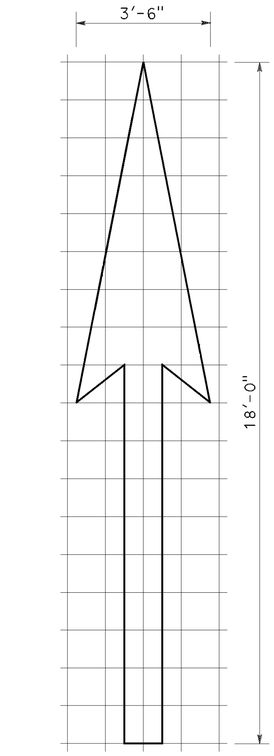
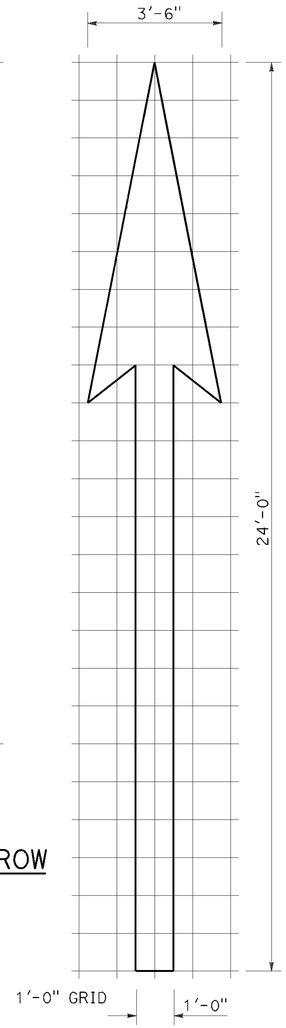
TO ACCOMPANY PLANS DATED 3-25-15

2010 REVISED STANDARD PLAN RSP A24A



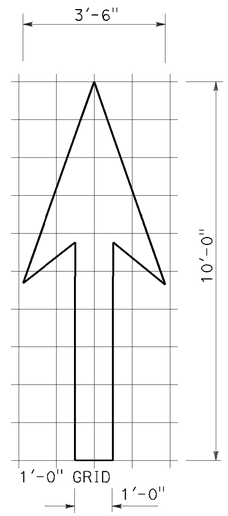
A=25 ft^2

TYPE I 18'-0" ARROW



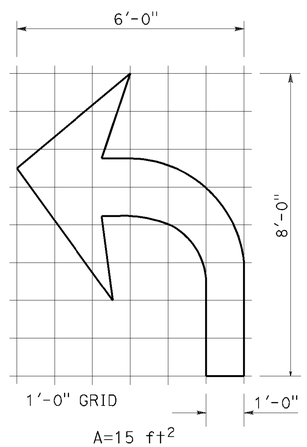
A=31 ft^2

TYPE I 24'-0" ARROW



A=14 ft^2

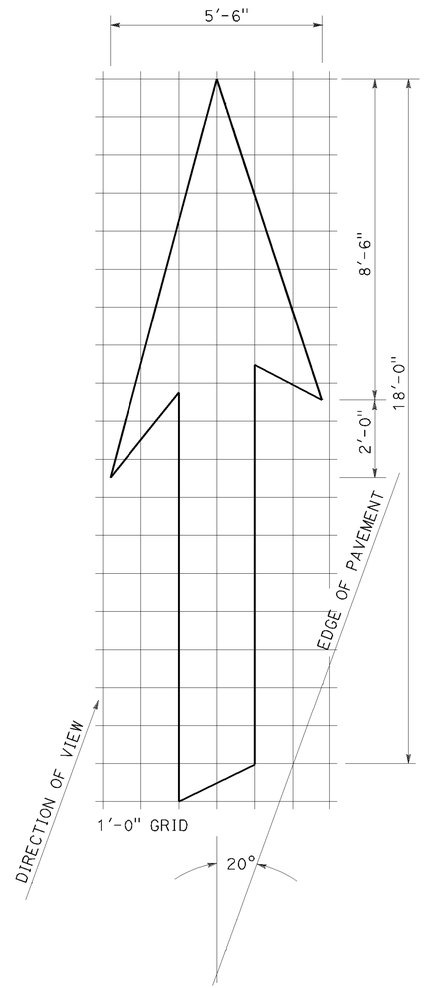
TYPE I 10'-0" ARROW



A=15 ft^2

TYPE IV (L) ARROW

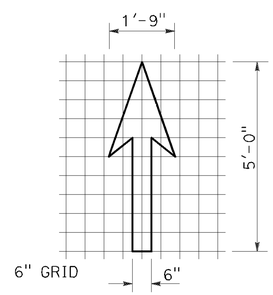
(For Type IV (R) arrow, use mirror image)



A=42 ft^2

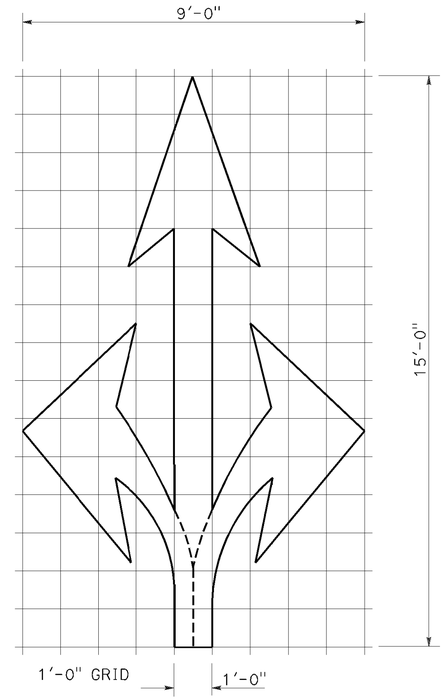
TYPE VI ARROW

Right lane drop arrow
(For left lane, use mirror image)



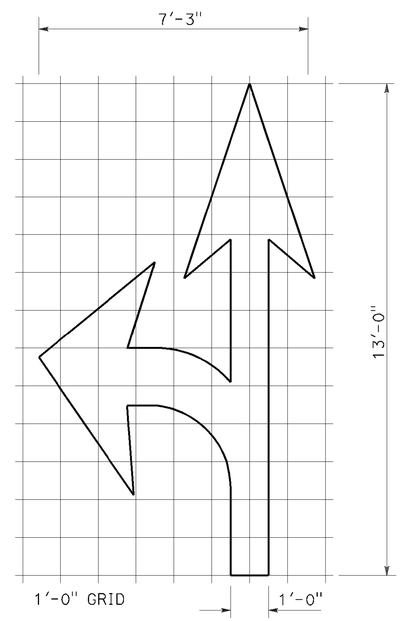
A=3.5 ft^2

BIKE LANE ARROW



A=36 ft^2

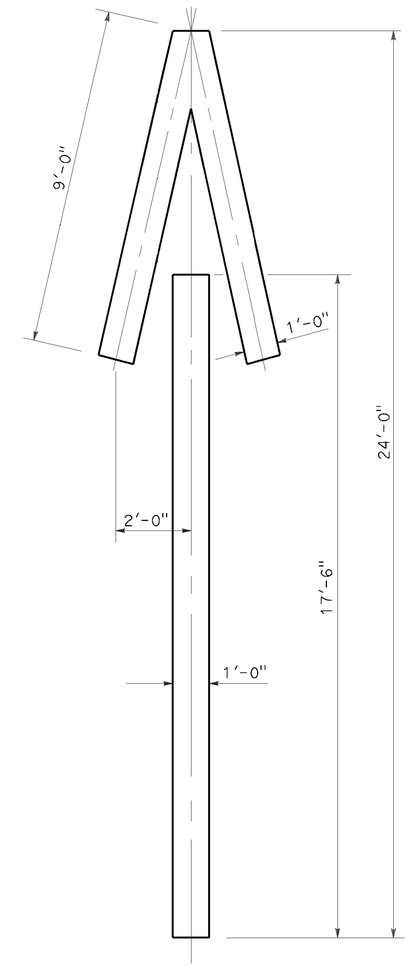
TYPE VIII ARROW



A=27 ft^2

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft^2

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.

REVISED STANDARD PLAN RSP A24A

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3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	10	20

REGISTERED CIVIL ENGINEER

July 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.

TO ACCOMPANY PLANS DATED 3-25-15

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

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

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

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

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

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
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 recommmended 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

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4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	11	20

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 3-25-15

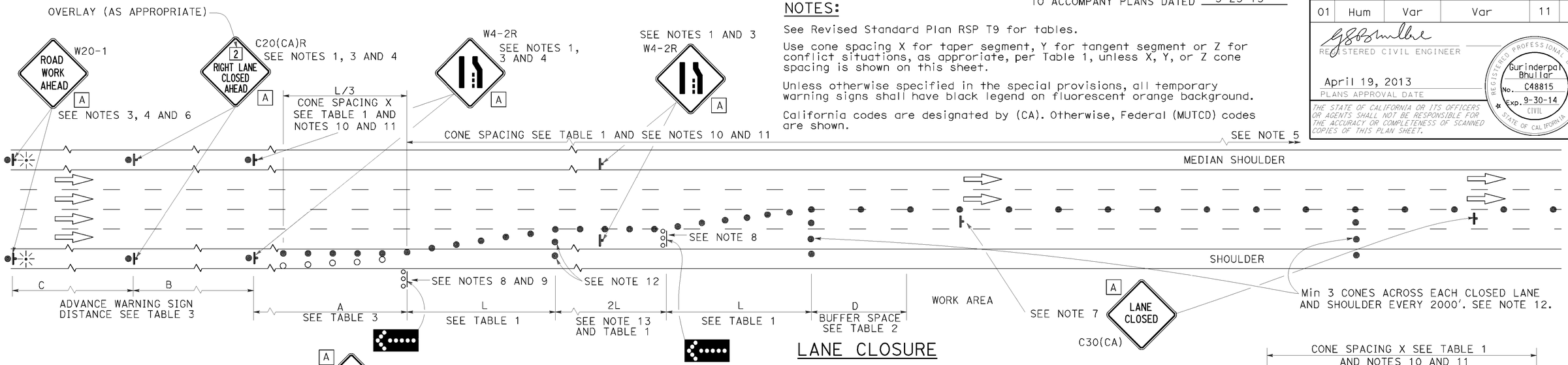
NOTES:

See Revised Standard Plan RSP T9 for tables.

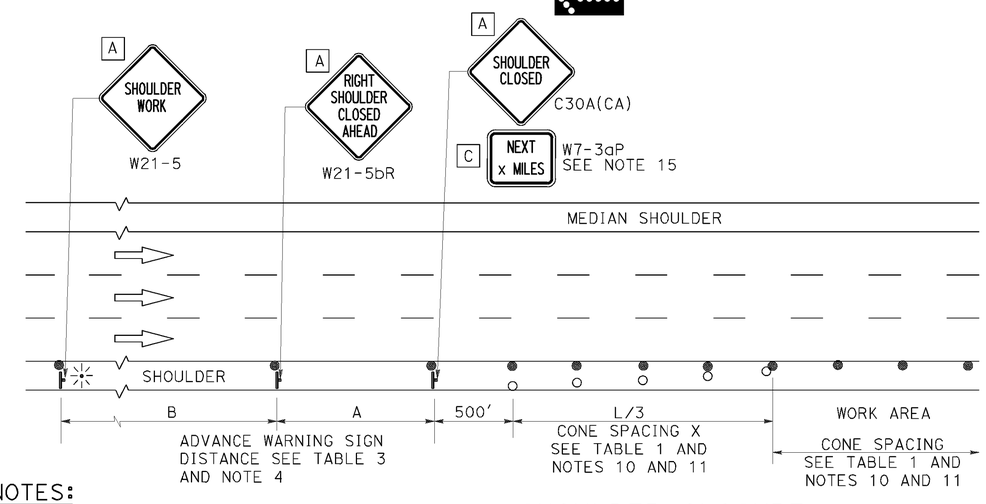
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

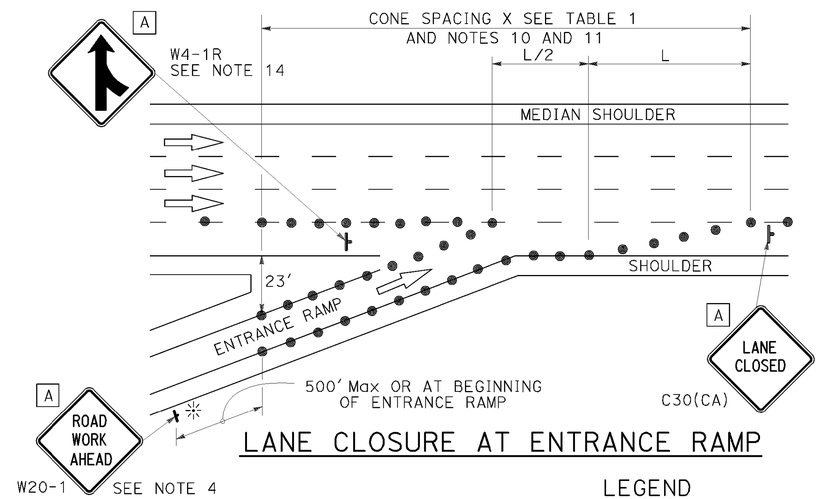
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



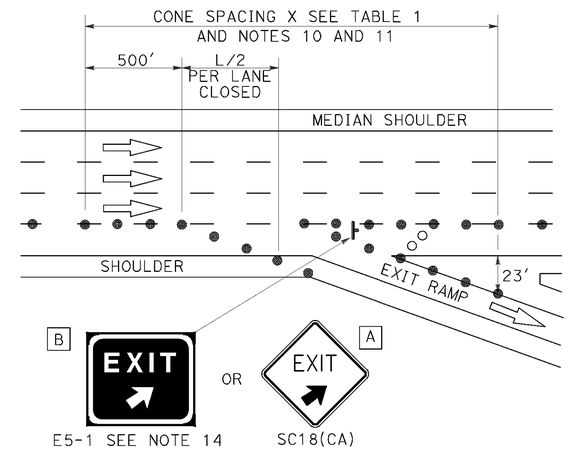
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

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 theshoulder 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

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12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	12	20

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.

TO ACCOMPANY PLANS DATED 3-25-15

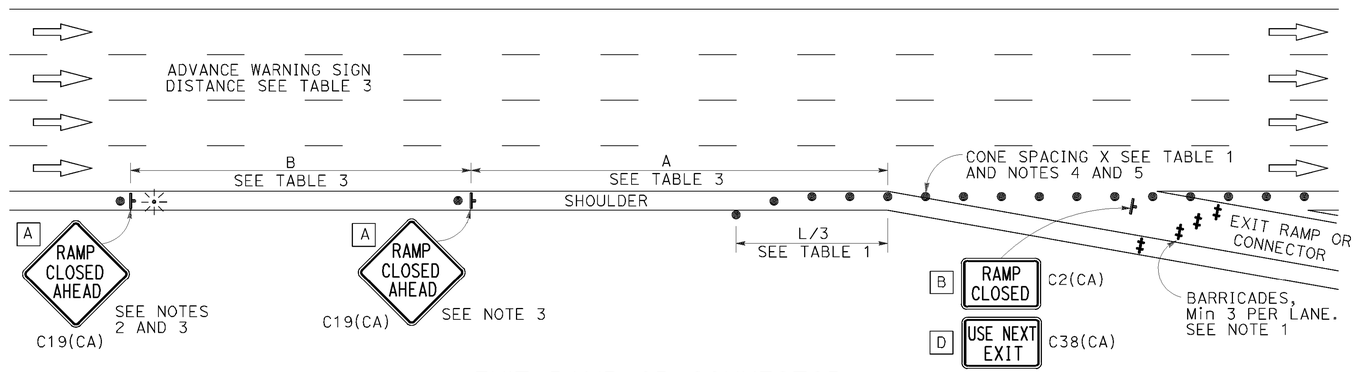
TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

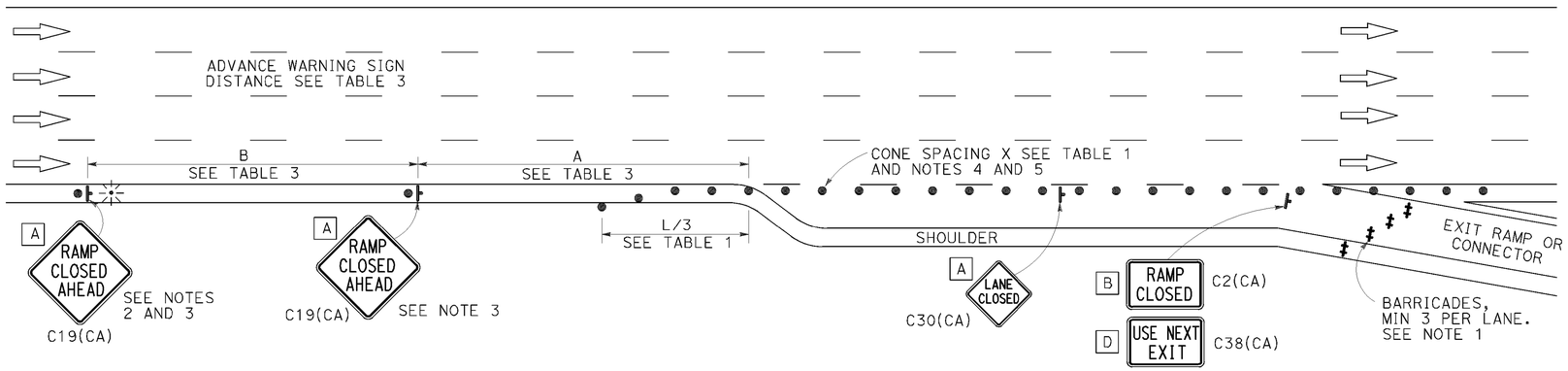
- A 48" x 48"
- B 48" x 30"
- C 36" x 36"
- D 48" x 36"

LEGEND

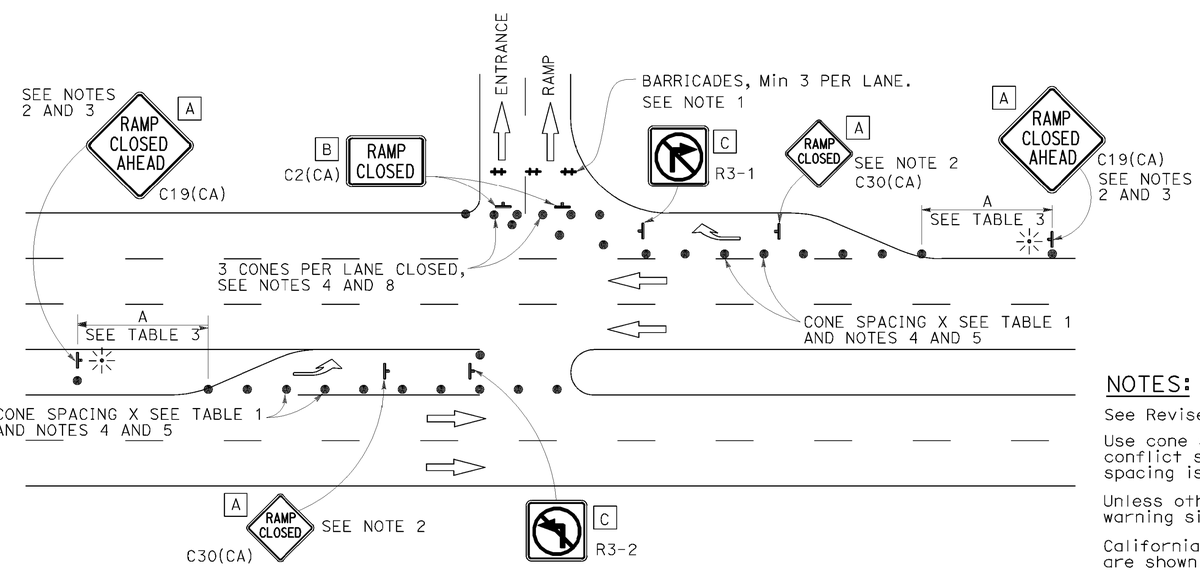
- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- BARRICADES
- PORTABLE FLASHING BEACON



EXIT RAMP OR CONNECTOR



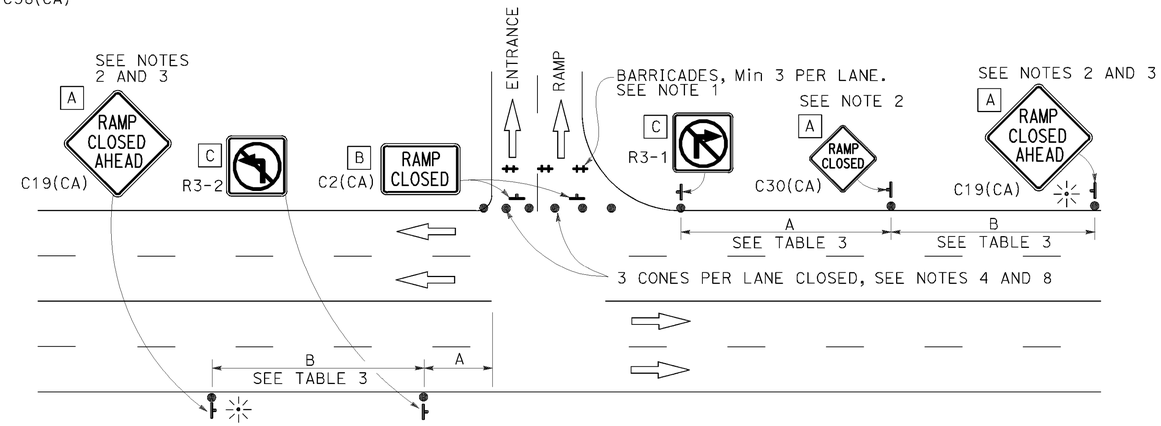
EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS

NOTES:

1. 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.
2. 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.
3. 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.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



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 approriate, 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

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12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	13	20

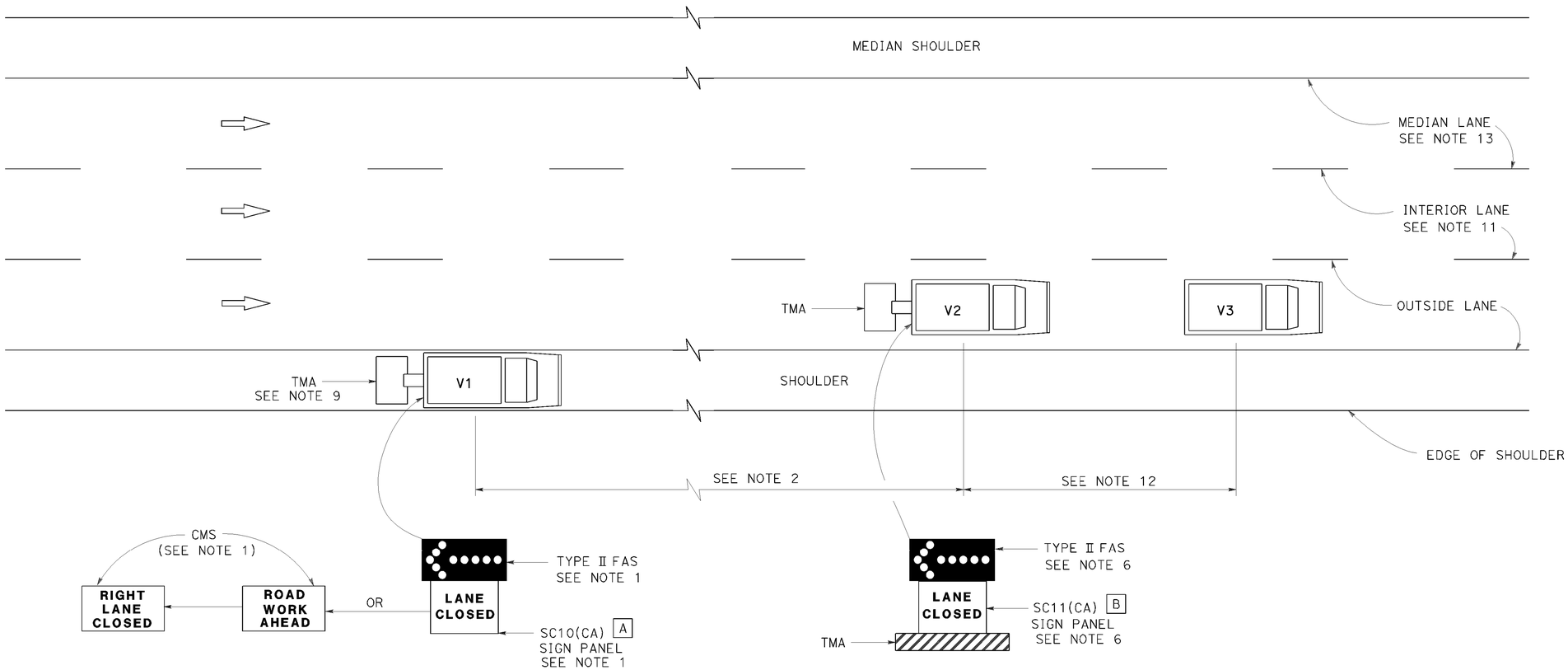
REGISTERED CIVIL ENGINEER

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.

TO ACCOMPANY PLANS DATED 3-25-15



MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

SIGN PANEL SIZE (Min)

A 66" x 36"

B 54" x 42"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS)
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

NOTES:

1. Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500′ should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500′.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
13. When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15
DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

2010 REVISED STANDARD PLAN RSP T15

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12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	14	20

REGISTERED CIVIL ENGINEER

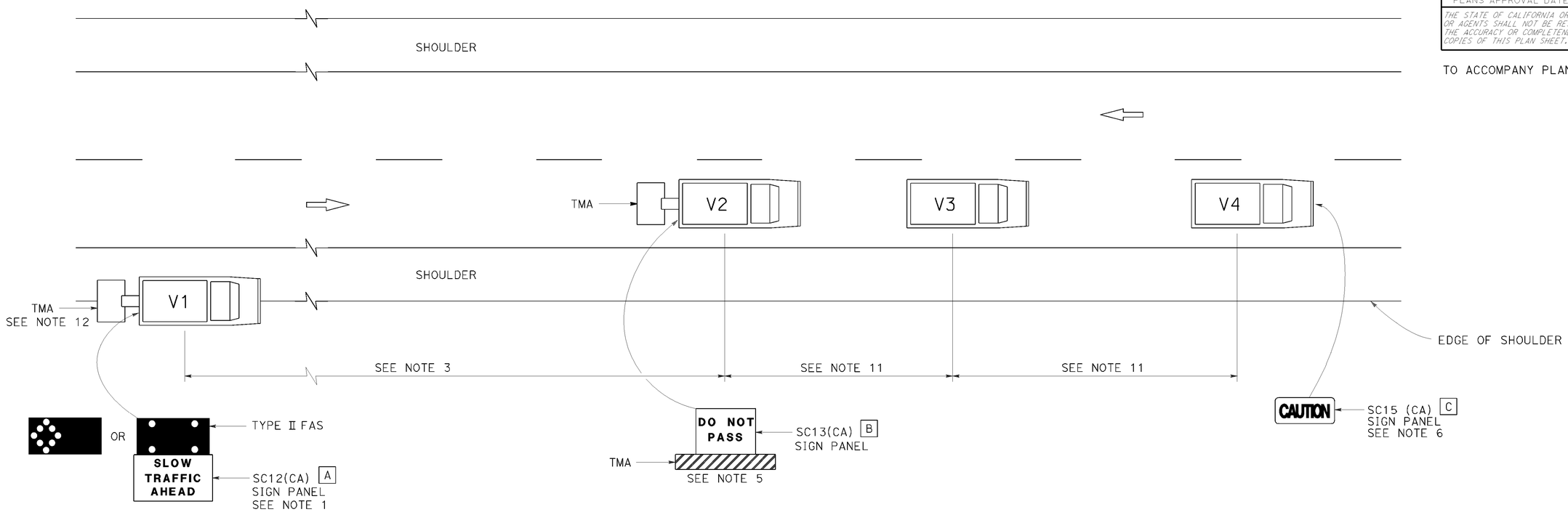
April 19, 2013
PLANS APPROVAL DATE

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.

TO ACCOMPANY PLANS DATED 3-25-15

2010 REVISED STANDARD PLAN RSP T17



LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
V4	SIGN VEHICLE
TMA	TRUCK-MOUNTED ATTENUATOR
	FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE
	FLASHING ARROW SIGN (FAS) IN ALTERNATING DIAMOND CAUTION

SIGN PANEL SIZE (Min)

A	72" x 42"
B	54" x 42"
C	54" x 24"

NOTES:

1. Either a changeable message sign or a SC12(CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. A Type II flashing arrow sign may be used with the SC12(CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Shadow vehicle shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

RSP T17 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T17
DATED MAY 20, 2011 - PAGE 245 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T17

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12-18-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	15	20

REGISTERED CIVIL ENGINEER 1-8-15 DATE

March 25, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Diosdada Acoba No. 52003 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA

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

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	JOINT SEAL DETAILS

STANDARD PLANS DATED MAY 2010

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

NOTES: (APPLY TO THIS SHEET ONLY)

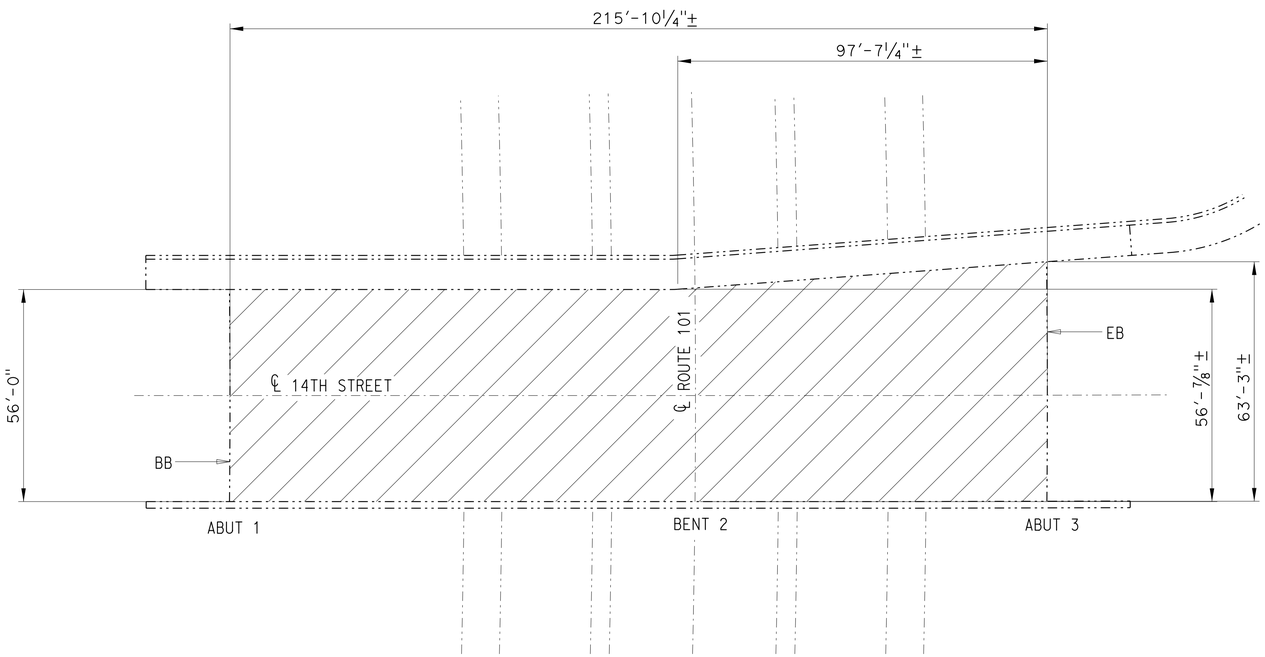
INDICATES EXISTING.

INDICATES REMOVE EXISTING CHIP SEAL APPROXIMATE THICKNESS ½"± .

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE NEW ¾" MINIMUM POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING NEW POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON "DECK REPAIR DETAIL-OVERLAY".

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

(1) SEE "ROADWAY PLANS" TO CONFORM TO NEW DECK GRADES.



14TH STREET OVERCROSSING

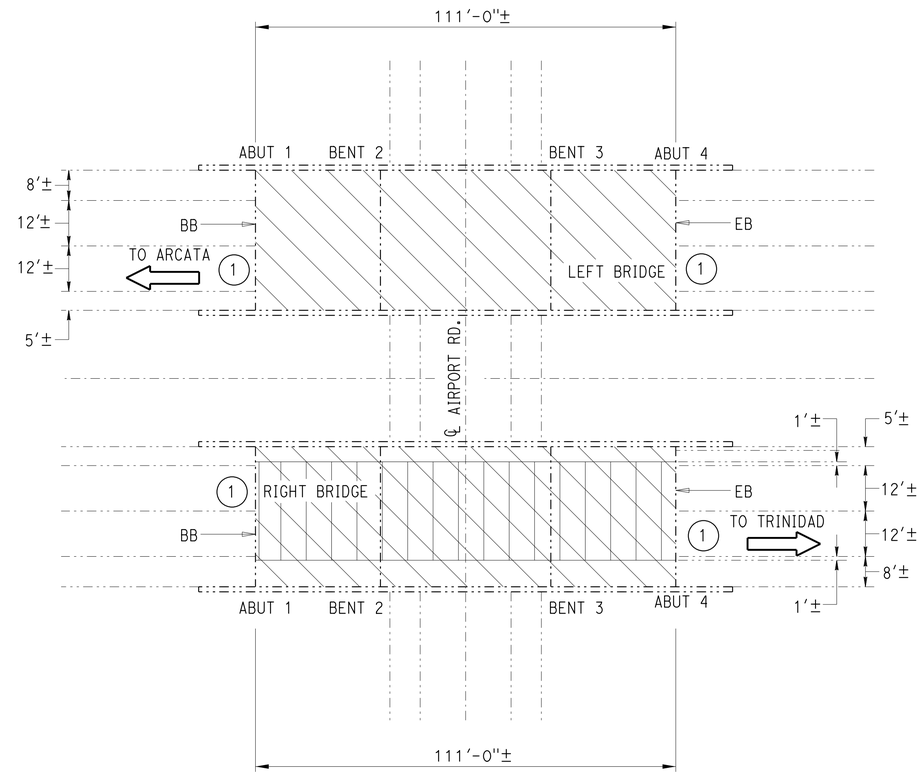
BR NO. 04-0245, HUM, ROUTE 101, PM 86.5
1"=20'

14TH STREET OC (04-0245)

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	12,510	SQFT
TREAT BRIDGE DECK	12,510	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	140	GAL

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



AIRPORT ROAD UNDERCROSSING

BR NO. 04-0169L/R, HUM, ROUTE 101, PM R93.9
1"=20'

AIRPORT ROAD UC (04-0169L/R)

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	21	CF
REMOVE UNSOUND CONCRETE	21	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	8,215	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	616	CF
PLACE POLYESTER CONCRETE OVERLAY	8,215	SQFT
REMOVE CHIP SEAL	2,890	SQFT

1-22-15
DESIGN ENGINEER

	BY	CHECKED			
DESIGN	D. Acoba	A. Nojoumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	N. Kelley	A. Nojoumi	LAYOUT	N. Kelley	D. Acoba
QUANTITIES	D. Acoba	A. Nojoumi	SPECIFICATIONS	JARVIS MAHE	JARVIS MAHE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

ROUTE 101 BRIDGES
GENERAL PLAN NO.1

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: 0112000007
CONTRACT NO.: 01-0B2401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 2-5-13 1-24-15 1-22-15 8-12-13

SHEET 1 OF 6

FILE => z01_0b2401_agp.dgn

USERNAME => s120115 DATE PLOTTED => 26-MAR-2015 TIME PLOTTED => 15:04

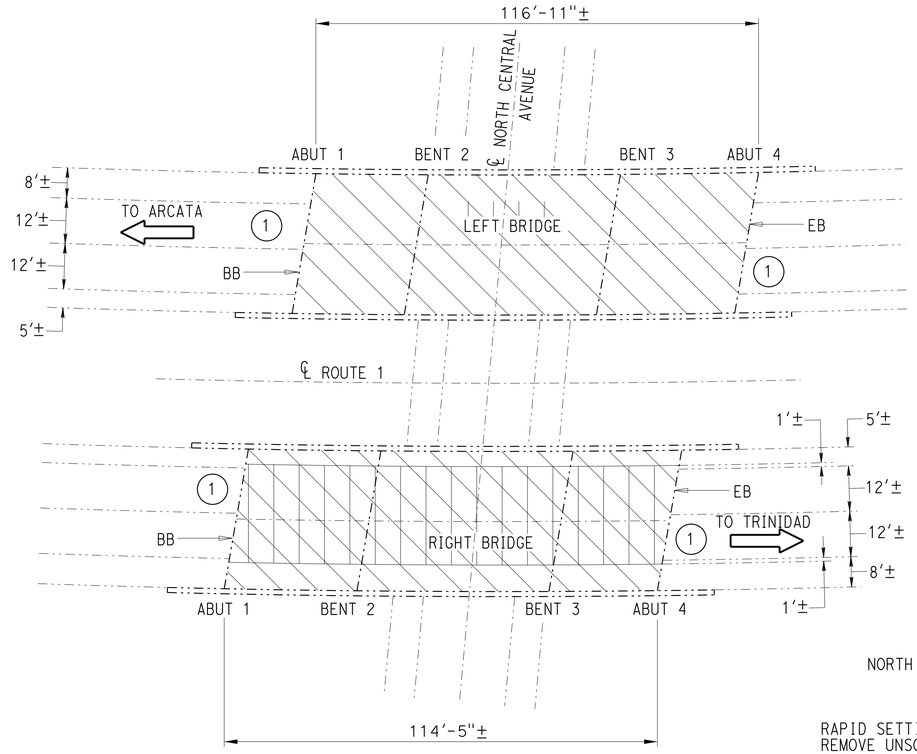
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	16	20

REGISTERED CIVIL ENGINEER 1-8-15 DATE

March 25, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Diosdada Acoba No. 52003 Exp 12-31-16 CIVIL STATE OF CALIFORNIA

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



NORTH CENTRAL AVE UNDERCROSSING

BR NO. 04-0095L/R, HUM, ROUTE 101, PM R95.6
1"=20'

NOTES: (APPLY TO THIS SHEET ONLY)

-·-·-·- INDICATES EXISTING.

INDICATES REMOVE EXISTING CHIP SEAL APPROXIMATE THICKNESS ½"± .

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE NEW ¾" MINIMUM POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING NEW POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON "DECK REPAIR DETAIL-OVERLAY".

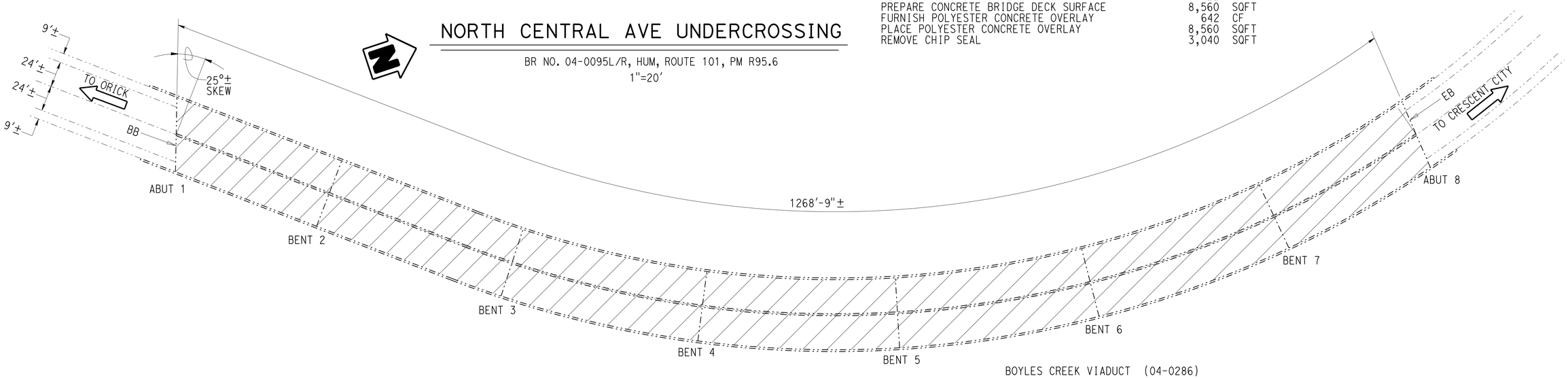
INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

(1) SEE "ROADWAY PLANS" TO CONFORM TO NEW DECK GRADES.

NORTH CENTRAL AVENUE OC (04-0095L/R)

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	22	CF
REMOVE UNSOUND CONCRETE	22	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	8,560	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	642	CF
PLACE POLYESTER CONCRETE OVERLAY	8,560	SQFT
REMOVE CHIP SEAL	3,040	SQFT



BOYES CREEK VIADUCT

BR NO. 04-0286, HUM, ROUTE 101, PM R128.97
1"=50'

BOYLES CREEK VIADUCT (04-0286)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	82,720	SQFT
TREAT BRIDGE DECK	82,720	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	920	GAL

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

1-22-15 DESIGN ENGINEER	DESIGN	BY D. Acoba	CHECKED A. Nojoumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
	DETAILS	BY N. Kelley	CHECKED A. Nojoumi	LAYOUT	BY N. Kelley	CHECKED D. Acoba
	QUANTITIES	BY D. Acoba	CHECKED A. Nojoumi	SPECIFICATIONS	BY JARVIS MAHE	PLANS AND SPECS COMPARED JARVIS MAHE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

ROUTE 101 BRIDGES
GENERAL PLAN NO.2

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: 0112000007
CONTRACT NO.: 01-0B2401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 2-6-13 1-22-15 8-12-13 1-21-15

SHEET 2 OF 6

FILE => z01_0b2401_bgp.dgn
USERNAME => s120115 DATE PLOTTED => 26-MAR-2015 TIME PLOTTED => 15:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	17	20

REGISTERED CIVIL ENGINEER 1-8-15 DATE

March 25, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Diosdada Acoba No. 52003 Exp 12-31-16 CIVIL STATE OF CALIFORNIA

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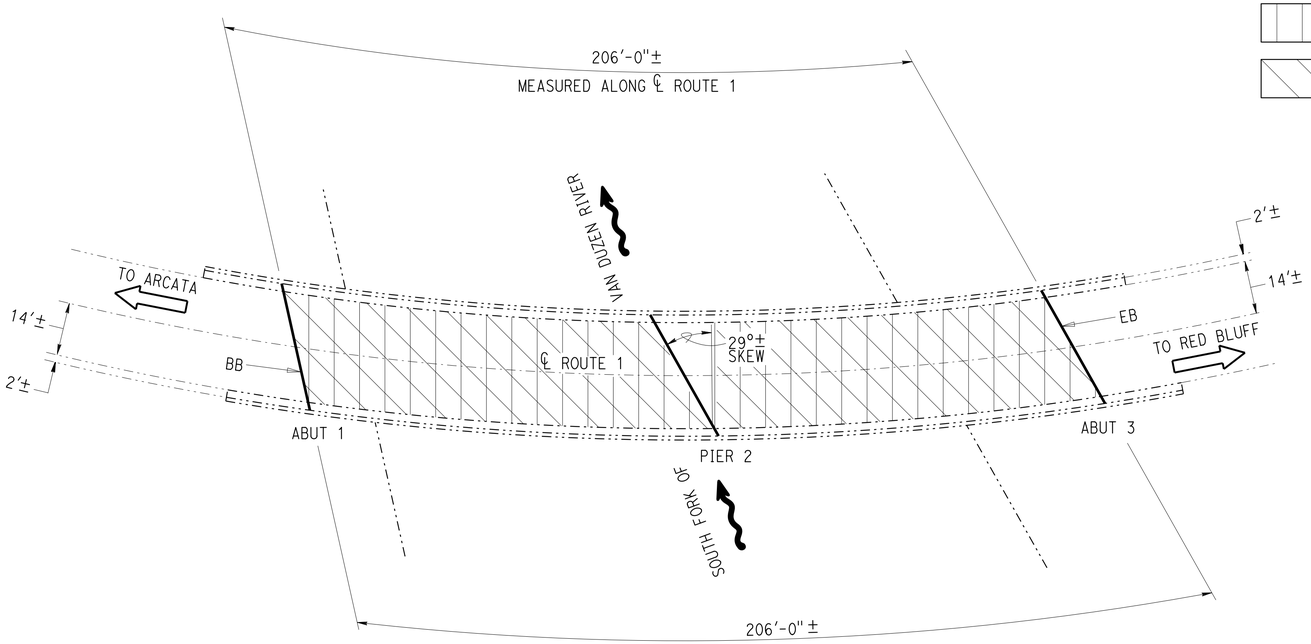
NOTES: (APPLY TO THIS SHEET ONLY)

- INDICATES EXISTING.
- INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL, CLEAN EXPANSION JOINT AND INSTALL NEW JOINT SEAL
- INDICATES REMOVE EXISTING AC OVERLAY APPROXIMATE THICKNESS 2"±.
- INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE NEW 2" MINIMUM POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING NEW POLYESTER CONCRETE OVERLAY, REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON "DECK REPAIR DETAIL-OVERLAY".



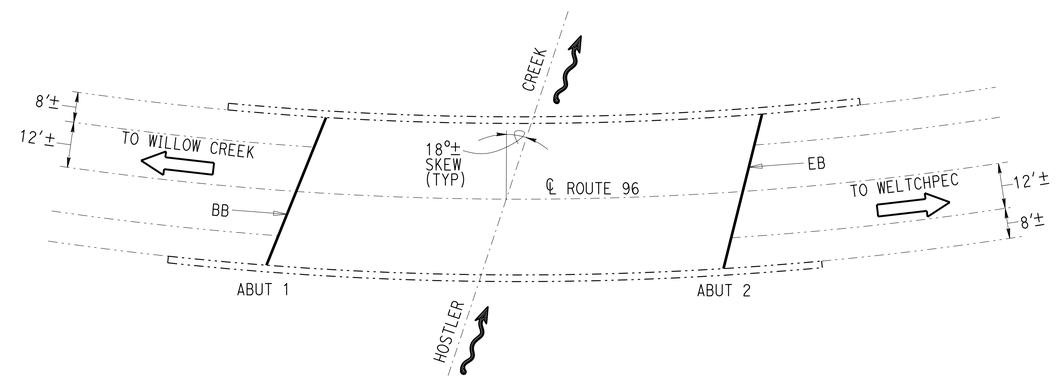
SOUTH FORK VAN DUZEN

BR NO. 04-0119, HUM, ROUTE 36, PM 37.32
1"=20'

SOUTH FORK VAN DUZEN (04-0119)

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	144	CF
REMOVE ASPHALT CONCRETE SURFACING	5,770	SQFT
REMOVE UNSOUND CONCRETE	144	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,770	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	1154	CF
PLACE POLYESTER CONCRETE OVERLAY	5,770	SQFT
CLEAN EXPANSION JOINT	111	LF
JOINT SEAL (MR 1/2")	117	LF



HOSTLER CREEK

BR NO. 04-0294, HUM, ROUTE 96, PM 13.1
1"=20'

HOSTLER CREEK (04-0294)

QUANTITIES

CLEAN EXPANSION JOINT	86	LF
JOINT SEAL (MR 1")	86	LF

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

1-22-15
DESIGN ENGINEER

	BY	CHECKED				
DESIGN	D. Acoba	A. Nojoumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	N. Kelley	A. Nojoumi	LAYOUT	N. Kelley	D. Acoba	
QUANTITIES	D. Acoba	A. Nojoumi	SPECIFICATIONS	JARVIS MAHE	PLANS AND SPECS COMPARED JARVIS MAHE	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

ROUTE 101 BRIDGES
GENERAL PLAN NO.3

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: 0112000007
CONTRACT NO.: 01-0B2401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 2-5-13 1-24-14 1-23-15 1-12-13

SHEET 3 OF 6

FILE => z01_0b2401_cgp.dgn

USERNAME => s120115 DATE PLOTTED => 26-MAR-2015 TIME PLOTTED => 15:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	18	20

REGISTERED CIVIL ENGINEER — DATE 1-8-15

March 25, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Diosdada Acoba — No. 52003 — Exp. 12-31-16 — CIVIL — STATE OF CALIFORNIA

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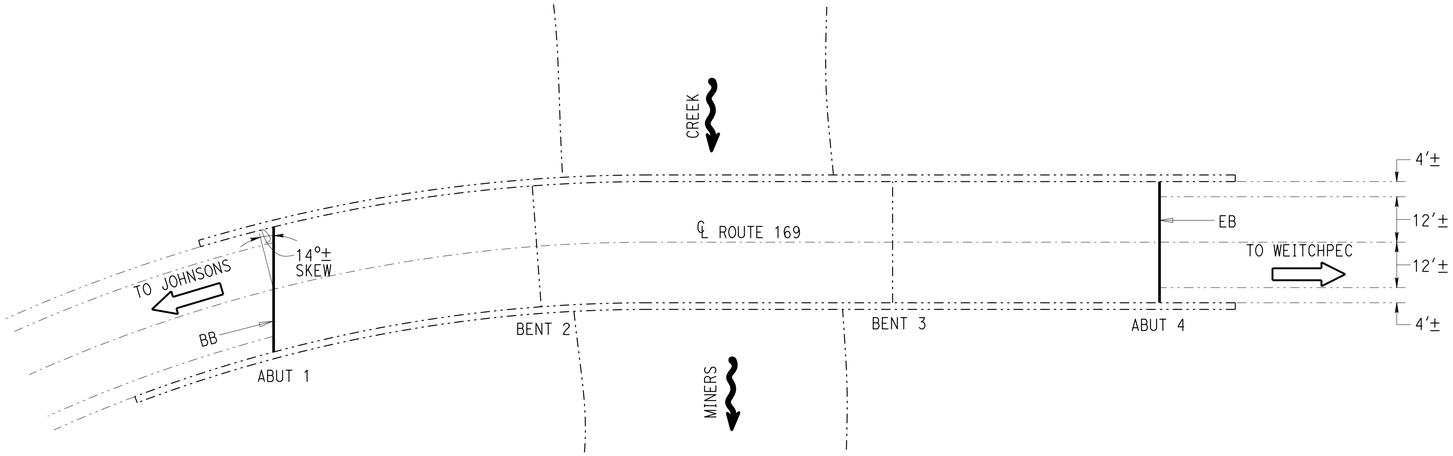


MINERS CREEK

BR NO. 04-0299, HUM, ROUTE 169, PM 27.0
1"=20'

MINER CREEK (04-0299)

QUANTITIES

CLEAN EXPANSION JOINT	66	LF
JOINT SEAL (MR 1")	66	LF

NOTES: (APPLY TO THIS SHEET ONLY)

-·-·-·- INDICATES EXISTING.

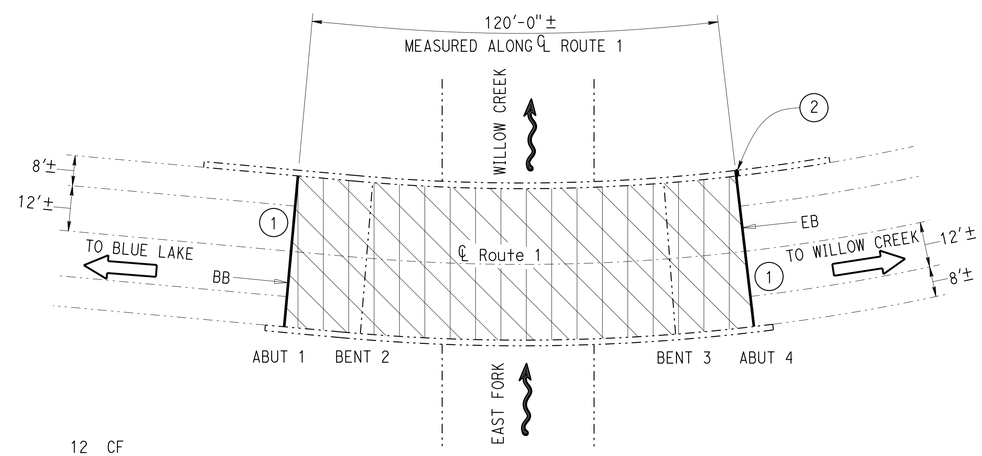
INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL, CLEAN EXPANSION JOINT AND INSTALL NEW JOINT SEAL

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE NEW ¾" MINIMUM POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING NEW POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON "DECK REPAIR DETAIL-OVERLAY".

INDICATES REMOVE EXISTING CHIP SEAL APPROXIMATE THICKNESS ½"± .

(1) SEE "ROADWAY PLANS" TO CONFORM TO NEW DECK GRADES.

(2) INDICATES LOCATION OF REPAIR SPALLED SURFACE AREA AT BARRIER RAILING. (0.5± FT X 1½"± IN X 3± IN).



EAST FORK WILLOW CREEK (04-0115)

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	12	CF
REPAIR SPALLED SURFACE AREA	0.1	SQFT
REMOVE UNSOUND CONCRETE	12	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,800	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	360	CF
PLACE POLYESTER CONCRETE OVERLAY	4,800	SQFT
REMOVE CHIP SEAL	4,800	SQFT
CLEAN EXPANSION JOINT	82	LF
JOINT SEAL (MR 1/2")	82	LF

EAST FORK WILLOW CREEK

BR NO. 04-0115, HUM, ROUTE 299, PM 33.21
1"=20'

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

DESIGN ENGINEER — 1-22-15

	BY	CHECKED			
DESIGN	D. Acoba	A. Nojoumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	N. Kelley	A. Nojoumi	LAYOUT	N. Kelley	D. Acoba
QUANTITIES	D. Acoba	A. Nojoumi	SPECIFICATIONS	JARVIS MAHE	JARVIS MAHE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

ROUTE 101 BRIDGES
GENERAL PLAN NO.4

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: 0112000007
CONTRACT NO.: 01-0B2401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 2-5-13 8-12-13 1-21-15 4-29-13

SHEET 4 OF 6

FILE => z01_0b2401_dgp.dgn

USERNAME => s120115 DATE PLOTTED => 26-MAR-2015 TIME PLOTTED => 15:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	19	20

REGISTERED CIVIL ENGINEER 1-8-15 DATE

March 25, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Diosdada Acoba No. 52003 Exp 12-31-16 CIVIL STATE OF CALIFORNIA

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GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative permit design load.

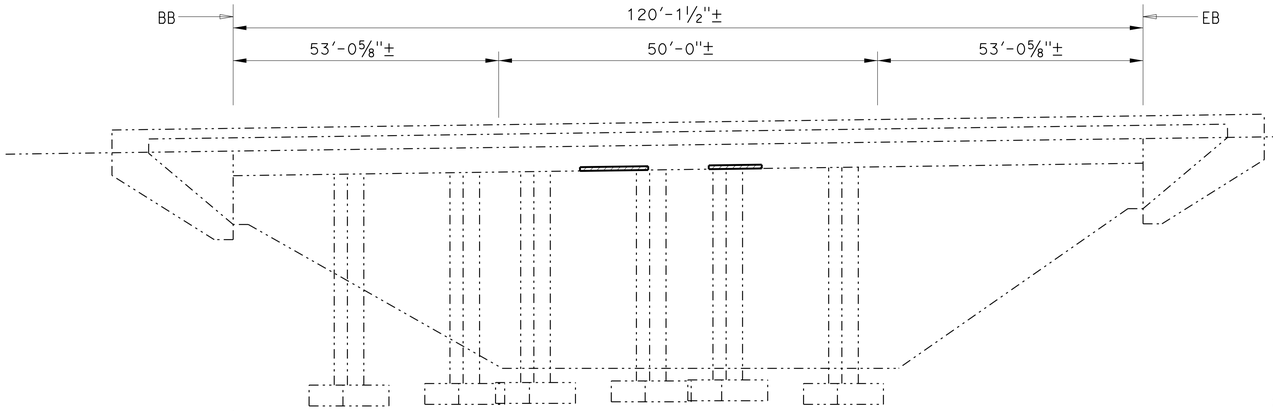
REINFORCED CONCRETE: fy = 60,000 psi
f'c = 3,600 psi
n = 9

NOTES: (APPLY TO THIS SHEET ONLY)

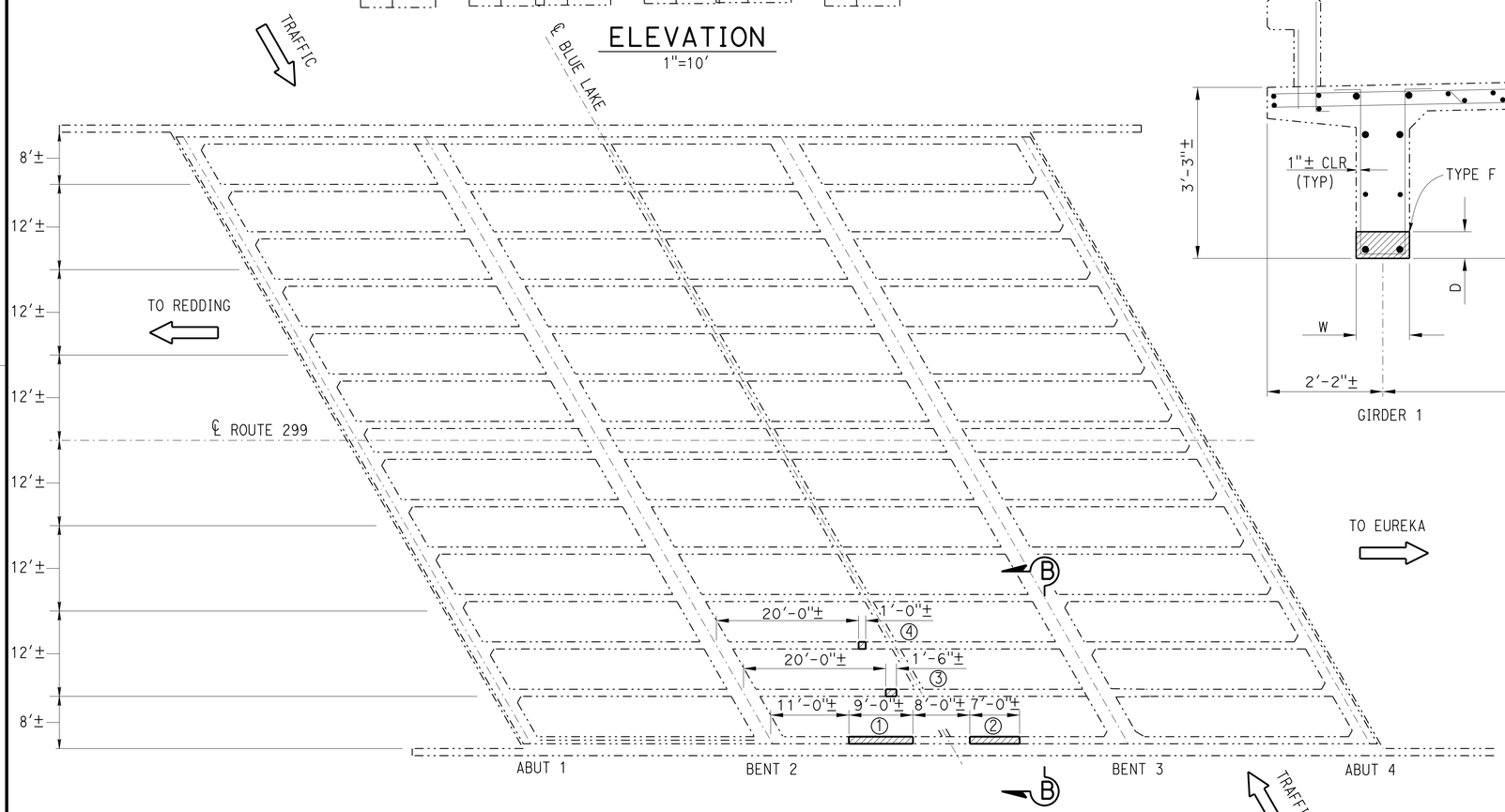
INDICATES EXISTING.

INDICATES LIMITS OF BRIDGE REMOVAL (PORTION) AND PLACE STRUCTURAL CONCRETE, BRIDGE.

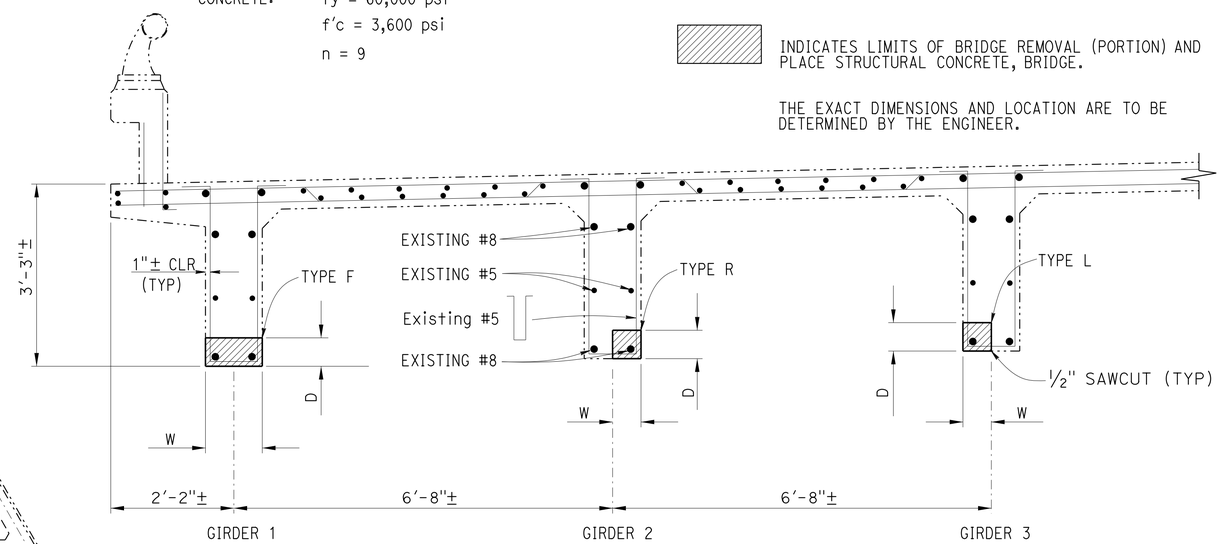
THE EXACT DIMENSIONS AND LOCATION ARE TO BE DETERMINED BY THE ENGINEER.



ELEVATION
1"=10'



PLAN
BLUE LAKE UNDERCROSSING
BR NO. 04-0193, HUM, ROUTE 299, PM R5.45
1"=10'



SECTION B-B
¾" = 1'-0"

GIRDER REPAIR

LOCATION	GIRDER NUMBER	REPAIR TYPE	L (FEET)	W (INCHES)	D (INCHES)
①	1	TYPE R	1	3	3
①	1	TYPE R	1	3	3
①	1	TYPE R	0.5	3	3
①	1	TYPE R	1	3	3
①	1	TYPE L	1	3	3
②	1	TYPE F	1	12	3
②	1	TYPE L	1	5	5
②	1	TYPE L	0.5	3	3
②	1	TYPE L	0.5	3	3
③	2	TYPE R	3	5	9
④	3	TYPE L	1	5	5

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

BLUE LAKE UC (04-0193)

QUANTITIES

BRIDGE REMOVAL (PORTION)	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	0.1 CY

DESIGN ENGINEER 1-22-15

	BY	CHECKED			
DESIGN	D. Acoba	A. Nojoumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	N. Kelley	A. Nojoumi	LAYOUT	N. Kelley	D. Acoba
QUANTITIES	D. Acoba	A. Nojoumi	SPECIFICATIONS	JARVIS MAHE	PLANS AND SPECS COMPARED JARVIS MAHE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

ROUTE 101 BRIDGES
GENERAL PLAN NO.5

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: 0112000007
CONTRACT NO.: 01-0B2401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 2-5-13 8-27-13 1-8-15 8-28-15

SHEET 5 OF 6

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USERNAME => s120115 DATE PLOTTED => 26-MAR-2015 TIME PLOTTED => 15:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	Var	Var	20	20

REGISTERED CIVIL ENGINEER — DATE 1-8-15

March 25, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Diosdada Acoba — No. 52003 — Exp. 12-31-16 — CIVIL — STATE OF CALIFORNIA

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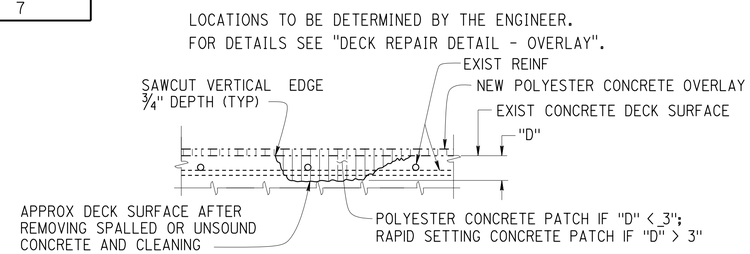
JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
HOSTLER CREEK	04-0294	ABUT 1	BB	1	43	NO	12
		ABUT 2	EB	1	43	NO	12
MINER CREEK	04-0299	ABUT 1	BB	1	33	NO	12
		ABUT 4	EB	1	33	NO	12
EAST FORK WILLOW CREEK	04-0115	ABUT 1	BB	1/2	41	NO	12
		ABUT 4	EB	1/2	41	NO	12
SOUTH FORK VAN DUZEN	04-0119	ABUT 1	BW	1/2	39	YES	7
		PIER 2		1/2	39	NO	12
		ABUT 3	BW	1/2	39	YES	7

LEGEND:
BB - PAVING NOTCH AT BEGINNING OF BRIDGE
EB - PAVING NOTCH AT END OF BRIDGE
BW - BACKWALL
H - HINGE

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

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
AIRPORT ROAD UC	04-0169L	1	3
AIRPORT ROAD UC	04-0169R	1	3
NORTH CENTRAL AVENUE UC	04-0095L	1	3
NORTH CENTRAL AVENUE UC	04-0095R	1	3
EAST FORK WILLOW CREEK	04-0115	1	3
SOUTH FORK VAN DUZEN	04-0119	10	3



DECK REPAIR DETAIL - OVERLAY

NOTE: LOCATIONS TO BE DETERMINED BY THE ENGINEER.
REINFORCEMENT MAY BE ENCOUNTERED DURING
DECK CONCRETE REMOVAL.

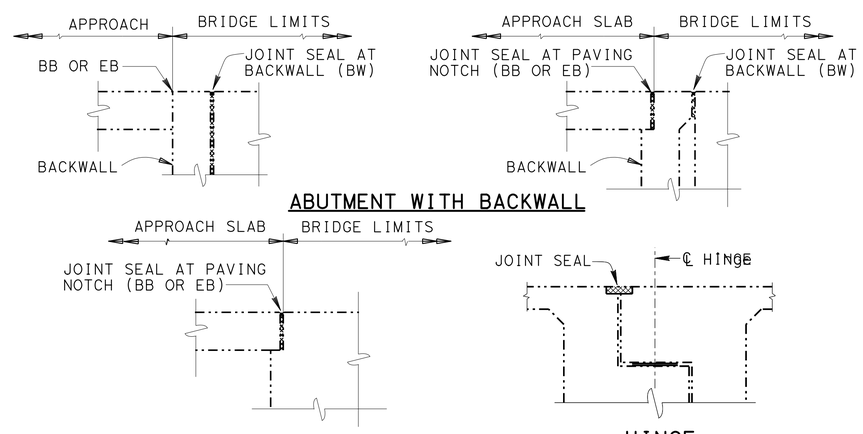
NO SCALE

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



JOINT SEAL LOCATION

NO SCALE

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

	BY	CHECKED
DESIGN	D. Acoba	A. Nojoumi
DETAILS	N. Kelley	A. Nojoumi
QUANTITIES	D. Acoba	A. Nojoumi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
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ROUTE 101 BRIDGES
JOINT SEAL DETAILS

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0112000007
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DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 2-5-13 1-21-15 8-14-15 8-12-15

SHEET 6 OF 6

FILE => z01_0b2401_gjs_det.dgn

USERNAME => s120115 DATE PLOTTED => 26-MAR-2015 TIME PLOTTED => 15:04