Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	1	32

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	CONSTRUCTION DETAILS & QUANTITIES
4-5	CONSTRUCTION AREA SIGNS
6	DETOUR PLAN
7-8	PAVEMENT DELINEATION QUANTITIES
9-21	REVISED STANDARD PLANS
STRUCTURE PLANS	
22-32	ROUTE 101 BRIDGES - GENERAL PLANS

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

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

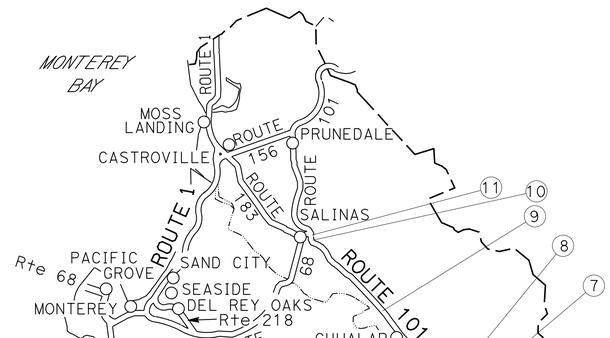
STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN MONTEREY COUNTY AT VARIOUS LOCATIONS FROM SAN ARDO UNDERCROSSING TO ALISAL ROAD UNDERCROSSING



NO SCALE

LOCATION MAP

LOCATIONS OF CONSTRUCTION

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.
1	Mon	101	R21.99	SAN ARDO UC	44-0193R
2	Mon	101	R41.95	JOLON UC	44-0181L
3	Mon	101	53.11	ELM Ave OC	44-0166
4	Mon	101	53.86	WALNUT Ave OC	44-0135
5	Mon	101	54.79	N GREENFIELD OC	44-0136
6	Mon	101	60.75	SALINAS RIVER	44-0002L/R
7	Mon	101	69.37	SOUTH GONZALES OC	44-0078
8	Mon	101	72.61	NORTH GONZALES OC	44-0092
9	Mon	101	82.47	ABBOTT UC	44-0119L
10	Mon	101	86.12	SANBORN Rd UC	44-0120L
11	Mon	101	87.06	ALISAL Rd UC	44-0122L

PROJECT MANAGER: KELLY J.McCLAIN

DESIGN MANAGER: KELLY J.McCLAIN

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER

1-20-15
DATE

K.L.McKINLEY No. 49413 Exp. 9-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

January 20, 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.	05-1C9304
PROJECT ID	0513000013

LAST REVISION => 01-20-15
DATE PLOTTED => 22-JAN-2015
TIME PLOTTED => 08:40

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	2	32

REGISTERED CIVIL ENGINEER — 1-20-15 DATE

1-20-15
PLANS APPROVAL DATE

K.L. McKINLEY No. 49413 Exp. 9-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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NOTES:

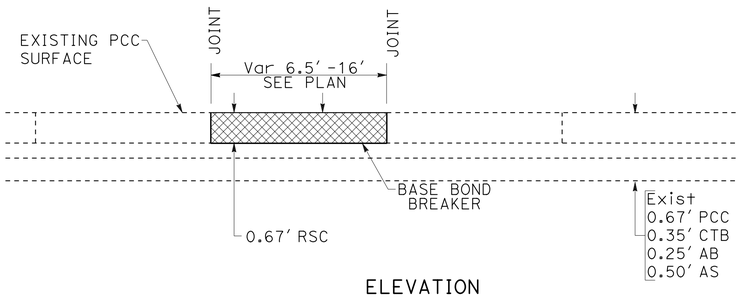
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. STRUCTURE APPROACH TYPE R(30D). SEE STRUCTRURE PLANS.
4. MATCH Exist GO DI SLOPE.
5. CONCRETE CURB TYPE B3-6. LENGTH = 20LF
6. EXACT RSC LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
7. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

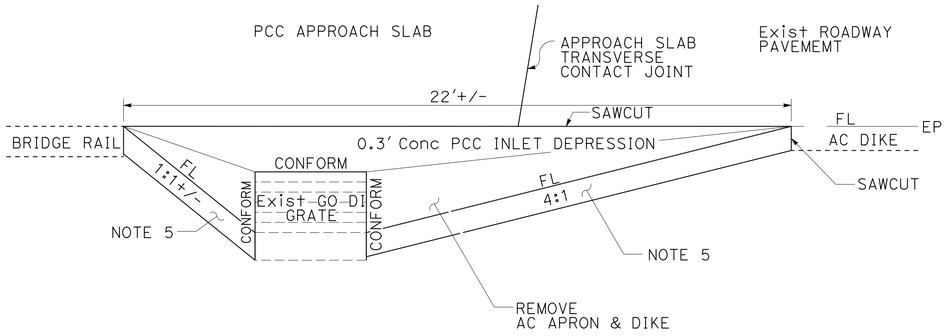
INDIVIDUAL SLAB REPLACEMENT (RSC)

ABBREVIATION:

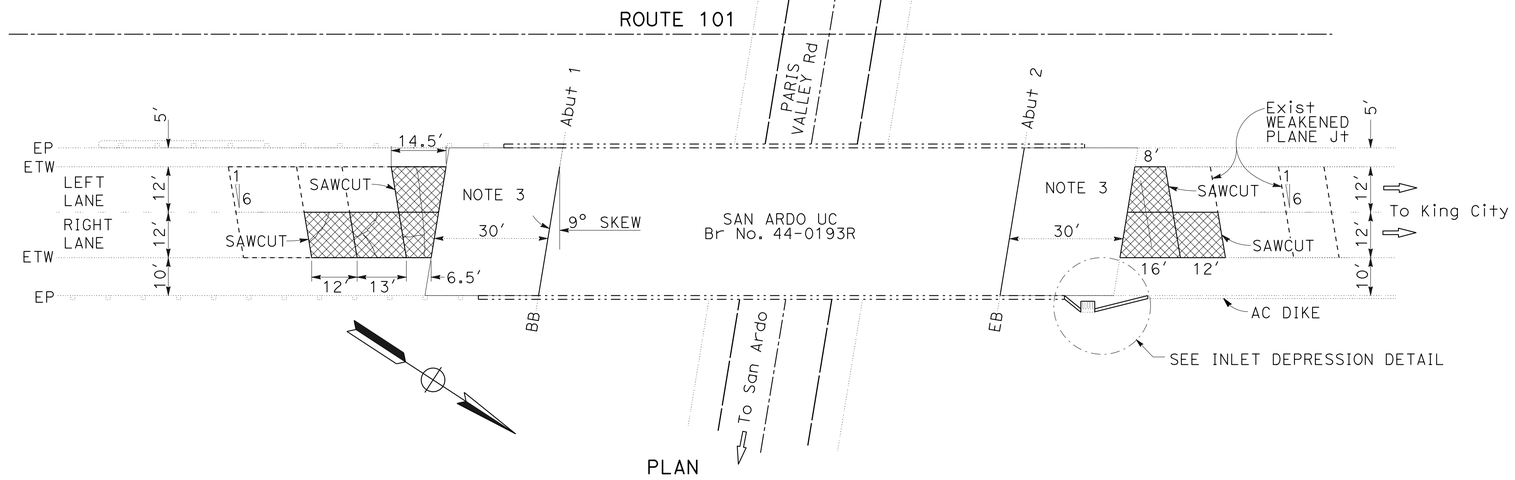
RSC - RAPID STRENGTH CONCRETE



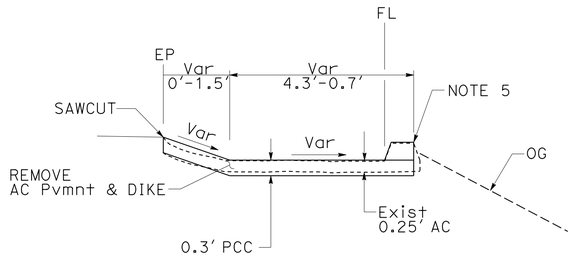
ELEVATION



INLET DEPRESSION DETAIL



PLAN



INLET DEPRESSION TYPICAL CROSS SECTION

SLAB REPLACEMENT

LOCATION		LANE	INDIVIDUAL SLAB REPLACEMENT (RSC)		DOWEL BAR (DRILL AND BOND)	BASE BOND BREAKER
			EA (N)	CY	EA	SQYD
Loc 1 SAN ARDO UC	BB	LEFT LANE	1	3.9	24	20
	BB	RIGHT LANE	3	10.4	24	52
	EB	LEFT LANE	1	3.1	24	17
	EB	RIGHT LANE	2	8.1	24	41
TOTAL				25.5	96	130

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

INLET DEPRESSION QUANTITIES

LOCATION	REMOVE AC DIKE	REMOVE AC Pvmnt	INLET DEPRESSION	MINOR CONCRETE (CURB & GUTTER)
				B3-6 CURB
	LF	SQFT	EA	CY
Loc 1 SAN ARDO UC EB	20	52.7	1	0.2

CONSTRUCTION DETAILS AND QUANTITIES
(LOCATION 1 - SAN ARDO UC)
NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: KELLY L. McKINLEY
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION: DATE PLOTTED => 22-JAN-2015 | TIME PLOTTED => 08:40
01-20-15

BORDER LAST REVISED 7/2/2010
USERNAME => s109144
DGN FILE => 0513000013ga001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1251
PROJECT NUMBER & PHASE 05130000131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	3	32

REGISTERED CIVIL ENGINEER — 1-20-15 DATE

KELLY L McKINLEY No. 49413 Exp. 9-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

1-20-15
PLANS APPROVAL DATE

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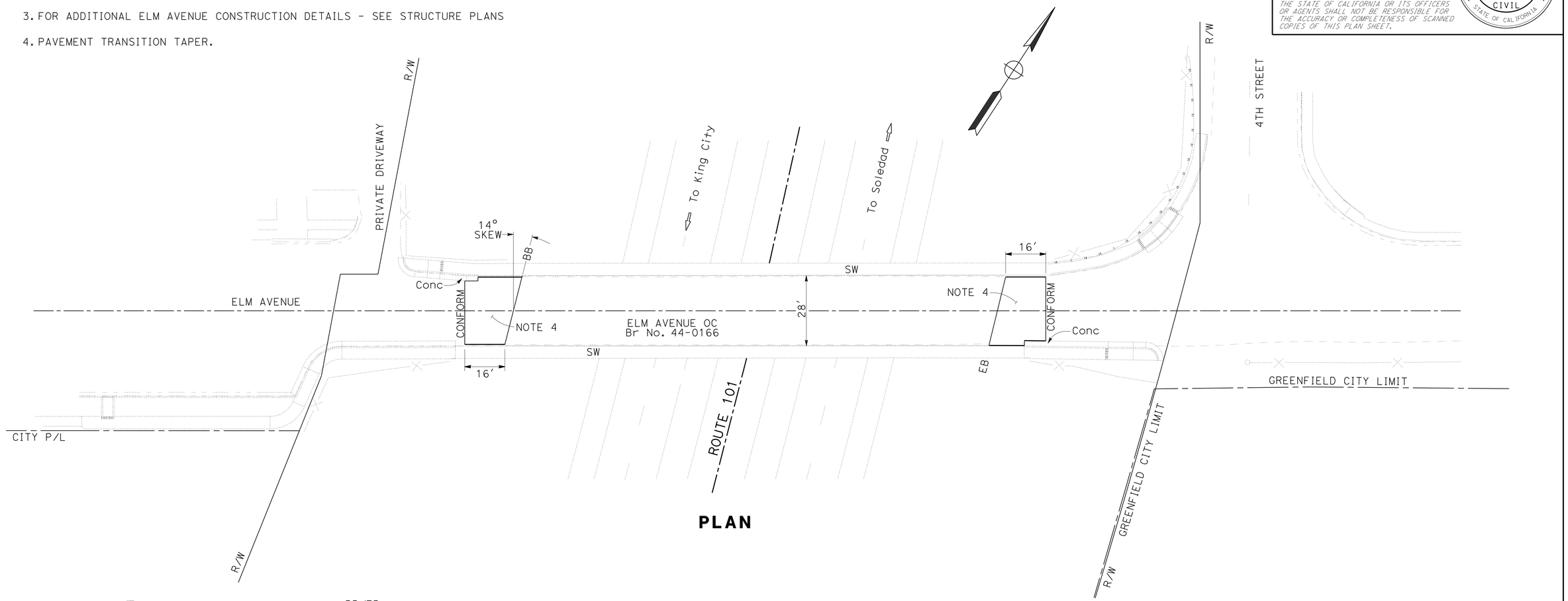
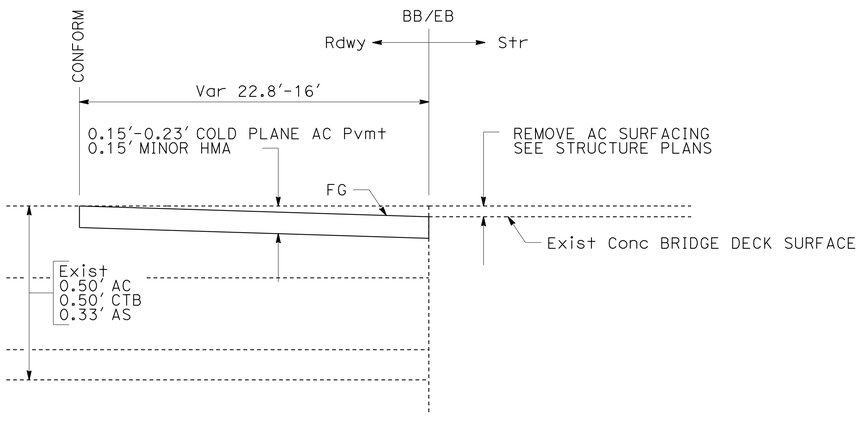
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING UTILITIES ARE NOT SHOWN ON THIS PLAN.
3. FOR ADDITIONAL ELM AVENUE CONSTRUCTION DETAILS - SEE STRUCTURE PLANS
4. PAVEMENT TRANSITION TAPER.



PLAN



PAVEMENT TRANSITION TAPER

PAVEMENT STRUCTURE QUANTITIES

LOCATION	COLD PLANE ASPHALT CONCRETE PAVEMENT	MINOR HOT MIX ASPHALT	TACK COAT (N)
	SQYD	TON	TON
Loc 3 - ELM Ave BB	58	6	0.05
Loc 3 - ELM Ave EB	57	6	0.05
TOTAL	115	12	0.10

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

CONSTRUCTION DETAILS AND QUANTITIES
(LOCATION 3 - ELM AVENUE OC)

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: KELLY J. McCLAIN
CHECKED BY:
REVISED BY / DATE REVISED:
LAST REVISION | DATE PLOTTED => 22-JAN-2015 | 01-20-15 | TIME PLOTTED => 08:40

BORDER LAST REVISED 7/2/2010 | USERNAME => s109144 | DGN FILE => 0513000013ga002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1251 | PROJECT NUMBER & PHASE 05130000131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	4	32

REGISTERED CIVIL ENGINEER — 1-20-15 DATE

1-20-15 PLANS APPROVAL DATE

K.L.McKinley No. 49413 Exp.9-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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

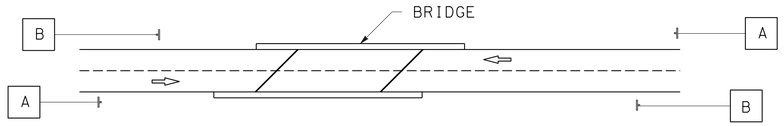
NOTES:

1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. SIGN [C] TO BE USED WHEN EXISTING STRUCTURE HAS SIDEWALKS. CLOSE ONLY ONE SIDEWALK AT A TIME TO PEDESTRIANS.
3. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE DETOUR PLAN DE-1.

LEGEND:

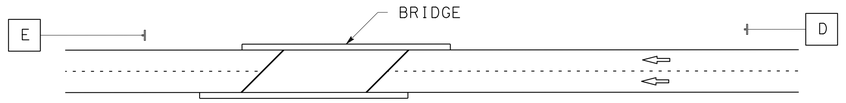
CONSTRUCTION AREA SIGN

TYPE II BARRICADE



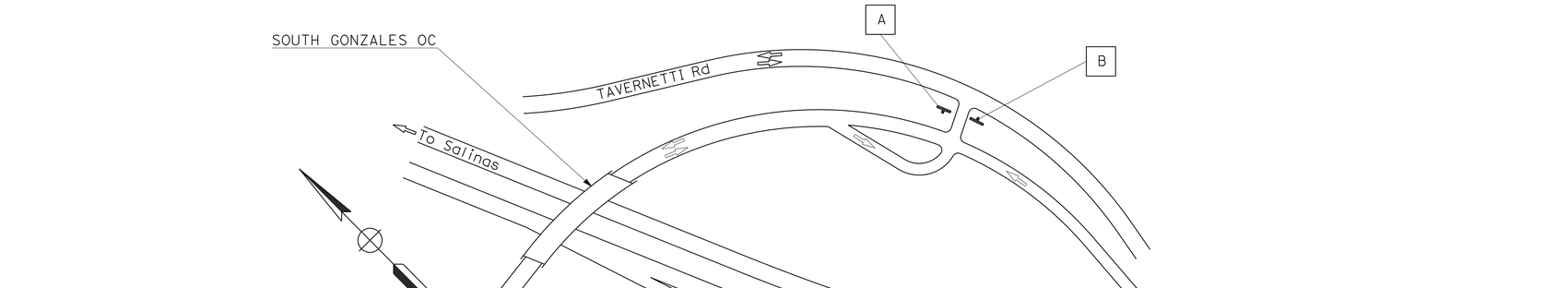
LOCATION 5, 8

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN A	SIGN B
5	Mon	101	54.79	N GREENFIELD OC	44-0136	2	2
8	Mon	101	72.61	NORTH GONZALES OC	44-0092	2	2
SUBTOTAL						4	4



LOCATION 1, 2, 6, 9, 10, 11

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGNS A	SIGNS D	SIGNS E	COMMENTS
1	Mon	101	R21.99	SAN ARDO UC	44-0193R		1	1	
2	Mon	101	R41.95	JOLON UC	44-0181L		1	1	
6	Mon	101	60.75	SALINAS RIVER	44-0002L	1	1	1	SIGN "A" REQUIRED AT ARROYO SECA ON-RAMP. FNBT
6	Mon	101	60.75	SALINAS RIVER	44-0002R	1	1	1	SIGN "A" REQUIRED AT NESTLES Rd ON-RAMP. FSBT
9	Mon	101	82.47	ABBOTT UC	44-0119L	1	1	1	SIGN "A" REQUIRED AT GOULD Rd. FWBT
10	Mon	101	86.12	SANBORN Rd UC	44-0120L		1	1	
11	Mon	101	87.06	ALISAL Rd UC	44-0122L	1	1	1	SIGN "A" REQUIRED AT SB E MARKET St ON-RAMP. FSBT
SUBTOTAL						4	7	7	



LOCATION 7

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN A	SIGN B
7	Mon	101	69.37	SOUTH GONZALES OC	44-0078	4	3

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: KELLY L. McKINLEY
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 22-JAN-2015
01-20-15 | TIME PLOTTED => 08:40

BORDER LAST REVISED 7/2/2010 | USERNAME => s109144 | DGN FILE => 05130000131a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1251 | PROJECT NUMBER & PHASE 05130000131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	5	32

REGISTERED CIVIL ENGINEER — 1-20-15 DATE

1-20-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — K.L.McKinley No. 49413 Exp.9-30-16 CIVIL — STATE OF CALIFORNIA

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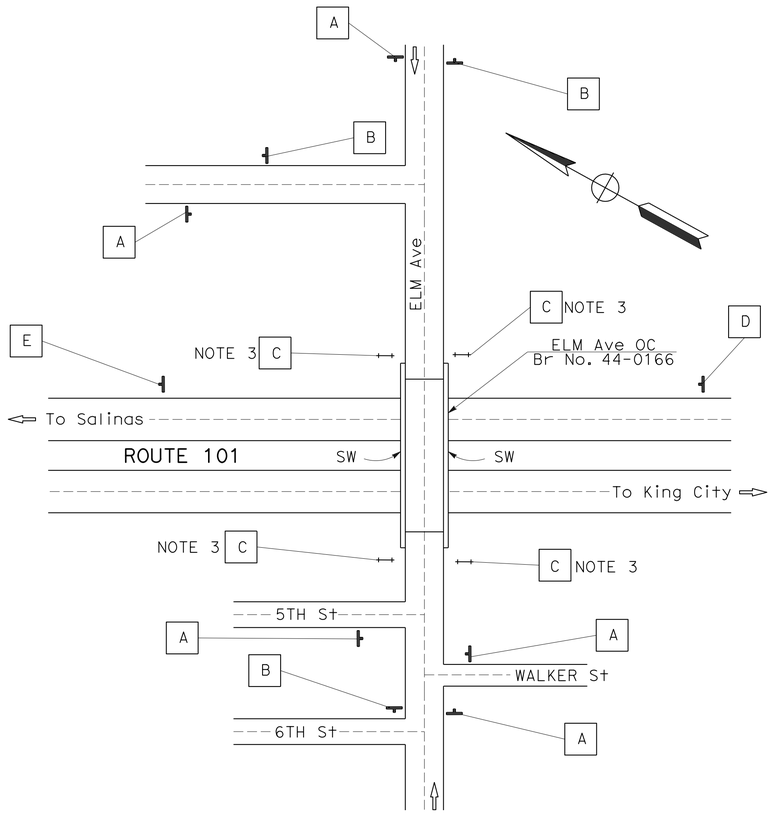

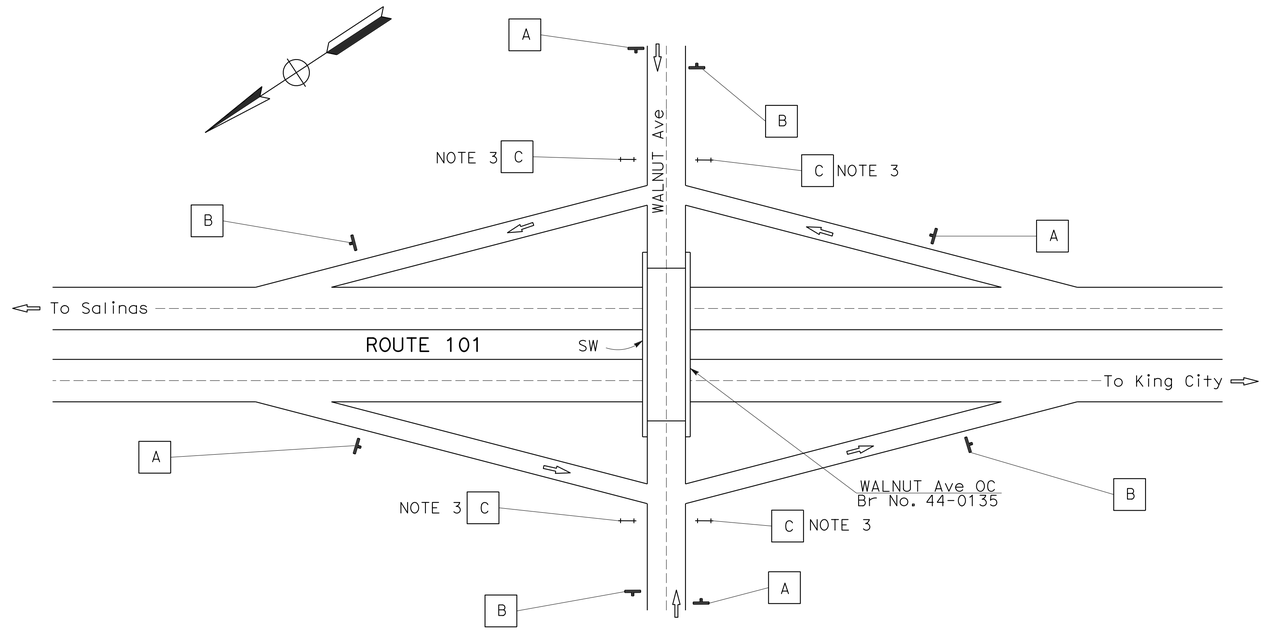

LOCATION 3

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN A	SIGN B	SIGN C	SIGN D	SIGN E
3	Mon	101	53.11	ELM Ave OC	44-0166	5	2	4	1	1

LOCATION 4

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN A	SIGN B	SIGN C
4	Mon	101	53.86	WALNUT Ave OC	44-0135	4	4	4

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS SUMMARY

SIGN No. X	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	NUMBER OF SIGNS	COMMENTS
A	W20-1	C23	30" x 30"	ROAD WORK AHEAD	1 - 4" x 6"	21	
B	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	13	
C	R9-10		24" x 24"	SIDEWALK CLOSED USE OTHER SIDE	--	8	BARRICADE MOUNTED
D	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	8	
E	G20-2	C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	8	BARRICADE MOUNTED

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: KELLY L. McKINLEY
CHECKED BY: KELLY J. McCLAIN

REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 22-JAN-2015
01-14-15 | TIME PLOTTED => 08:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	6	32

REGISTERED CIVIL ENGINEER — 1-20-15 DATE

1-20-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — K.L.McKinley No. 49413 Exp.9-30-16 CIVIL — STATE OF CALIFORNIA

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NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. DURING THE SB ROUTE 101 ON-RAMP CLOSURE AT E MARKET St, THE PCMS MESSAGE SHOULD READ...

SB 101 ON RAMP CLOSED	→	DETOUR TO JOHN ST
1st FRAME		2nd FRAME

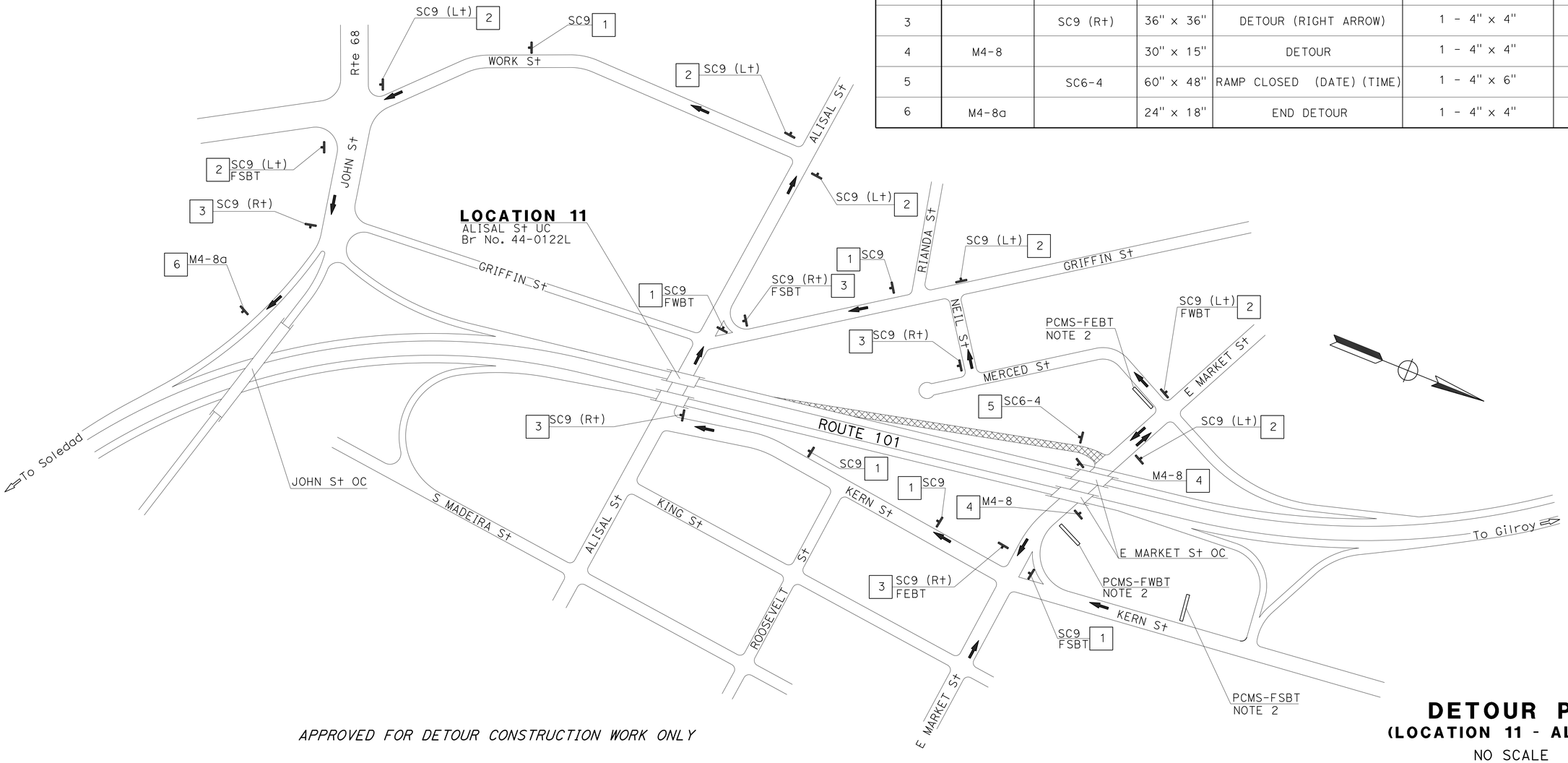
3. DETOUR TO BE USED WHEN CONSTRUCTION ACTIVITIES REQUIRE CLOSING THE NUMBER 2 LANE AT ALISAL St UC Br No. 44-0122L

LEGEND:

- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- PORTABLE SIGN
- DIRECTION OF DETOUR
- RAMP CLOSURE
- CONSTRUCTION AREA SIGN

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN NO. X	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
1		SC9	36" x 36"	DETOUR (UP ARROW)	1 - 4" x 4"	6
2		SC9 (Lt)	36" x 36"	DETOUR (LEFT ARROW)	1 - 4" x 4"	7
3		SC9 (Rt)	36" x 36"	DETOUR (RIGHT ARROW)	1 - 4" x 4"	5
4	M4-8		30" x 15"	DETOUR	1 - 4" x 4"	2
5		SC6-4	60" x 48"	RAMP CLOSED (DATE) (TIME)	1 - 4" x 6"	1
6	M4-8a		24" x 18"	END DETOUR	1 - 4" x 4"	1



APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN
(LOCATION 11 - ALISAL UC)

NO SCALE **DE-1**

LAST REVISION 01-20-15 | DATE PLOTTED => 22-JAN-2015 | TIME PLOTTED => 08:40

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: KELLY L. McKINLEY

CHECKED BY: KELLY J. McCLAIN

REVISED BY	DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => s109144
DGN FILE => 0513000013mg001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1251

PROJECT NUMBER & PHASE 05130000131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	7	32

K.L.McKinley 1-20-15
REGISTERED CIVIL ENGINEER DATE

1-20-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
K.L.McKinley
No. 49413
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.

REMOVE PAVEMENT DELINEATION

Loc	Co-Rte-PM	BRIDGE NAME	BRIDGE No.	DETAIL No.	REMOVE THERMOPLASTIC TRAFFIC STRIPE		REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)		REMOVE PAVEMENT MARKER	DESCRIPTION/COMMENTS
					WHITE SOLID	WHITE BROKEN	YELLOW SOLID	YELLOW BROKEN		
					LF	LF	LF	LF	EA	
1	Mon-101-R21.99	SAN ARDO UC	44-0193R	25			60		1	2-30' APPROACH SLABS
				11		15				
				13					7	
				27B	60					
2	Mon-101-R41.95	JOLON UC	44-0181L	25			116		2	
				11		29				
				13					6	
				27B	116					
3	Mon-101-53.11	ELM AVENUE OC	44-0166	1				57		
4	Mon-101-53.86	WALNUT AVENUE OC	44-0135	21			386			
				23					50	
5	Mon-101-54.79	NORTH GREENFIELD OC	44-0136	27B	436					
				22			654		36	INCLUDES 218 LF BLACK STRIPE
6	Mon-101-60.75	SALINAS RIVER	44-0002L	25			1,545		32	
				11		386				
				13					161	
				27B	1,545					
6	Mon-101-60.75	SALINAS RIVER	44-0002R	25			1,545		32	
				11		386				
				13					161	
				27B	3,090					2 APPLICATIONS
7	MON-101-69.37	SOUTH GONZALES OC	44-0078	22			624		10	INCLUDES 208 LF BLACK STRIPE
8	Mon-101-72.61	NORTH GONZALES OC	44-0092	27B	454					
				22			681		1	INCLUDES 227 LF BLACK STRIPE
9	Mon-101-82.47	ABBOTT UC	44-0119L	25			167		3	
				11		50				
				13					17	
				27B	176					
10	Mon-101-86.12	SANBORN Rd UC	44-0120L	25			92		6	
				11		23				
				13					14	
				27B	92					
11	Mon-101-87.06	ALISAL Rd UC	44-0122L	25			91		6	
				11		21				
				13					10	
				27B	91					
SUBTOTAL					6,060	910	5,961	57		
TOTAL					6,970		6,018		555	

PAVEMENT DELINEATION QUANTITIES
PDQ-1

CALCULATED-DESIGNED BY: KELLY L. McKINLEY
CHECKED BY: KELLY J. McCLAIN
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
REVISED BY / DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION: DATE PLOTTED => 22-JAN-2015 | 01-20-15 | TIME PLOTTED => 08:40

BORDER LAST REVISED 7/2/2010
USERNAME => s109144
DGN FILE => 0513000013nc001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1251
PROJECT NUMBER & PHASE 05130000131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	8	32

REGISTERED CIVIL ENGINEER — 1-20-15 DATE

1-20-15
PLANS APPROVAL DATE

K.L.McKinley No. 49413 Exp.9-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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

PAVEMENT DELINEATION

Loc	Co-Rte-PM	BRIDGE NAME	BRIDGE No.	DETAIL No.	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	4" THERMOPLASTIC TRAFFIC STRIPE		PAVEMENT MARKER (RETROREFLECTIVE)			PAVEMENT MARKER (NON-REFLECTIVE)		DESCRIPTION/ COMMENTS
							WHITE	YELLOW						
					WHITE	YELLOW	SOLID	SOLID	TYPE D	TYPE G	TYPE H	TYPE A	TYPE AY	
					LF	LF	LF	LF	EA	EA	EA	EA	EA	
1	Mon-101-R21.99	SAN ARDO UC	44-0193R	25				60			2			
				11	60									
				13						2		5		
				27B			60							
2	Mon-101-R41.95	JOLON UC	44-0181L	25				116			3			
				11	116									
				13						3		10		
				27B			116							
3	Mon-101-53.11	ELM AVENUE OC	44-0166	1		195								
4	Mon-101-53.86	WALNUT AVENUE OC	44-0135	21				386						
				23					18				80	
5	Mon-101-54.79	NORTH GREENFIELD OC	44-0136	27B			436							
				22				436	20					
6	Mon-101-60.75	SALINAS RIVER	44-0002L	25				1,545			33			
				11	1,545									
				13						33		129		
				27B			1,545							
6	Mon-101-60.75	SALINAS RIVER	44-0002R	25				1,545			33			
				11	1,545									
				13						33		129		
				27B			1,545							
7	MON-101-69.37	SOUTH GONZALES OC	44-0078	22				416	20					
8	Mon-101-72.61	NORTH GONZALES OC	44-0092	27B			454							
				22				454	22					
9	Mon-101-82.47	ABBOTT UC	44-0119L	25				167			4			
				11	199									
				13						5		17		
				27B			176							
10	Mon-101-86.12	SANBORN Rd UC	44-0120L	25				92			3			
				11	92									
				13						3		8		
				27B			92							
11	Mon-101-87.06	ALISAL Rd UC	44-0122L	25				91			3			
				11	91									
				13						3		8		
				27B			91							
SUBTOTAL							4,515	5,308	79	82	81	306	80	
TOTAL					3,648	195	9,823		242			386		

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED
KELLY L. McKINLEY
KELLY J. McCLAIN
FUNCTIONAL SUPERVISOR
KELLY J. McCLAIN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

PAVEMENT DELINEATION QUANTITIES
PDQ-2

LAST REVISION 01-20-15
DATE PLOTTED => 22-JAN-2015
TIME PLOTTED => 08:40

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
05	Mon	101	R21.9/87.0	9	32

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 1-20-15

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

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	10	32

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Michael Janzen — No. 44788 — Exp. 03-31-14 — CIVIL — STATE OF CALIFORNIA

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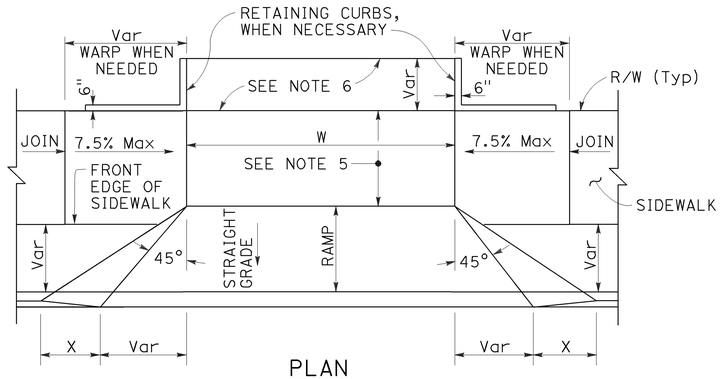
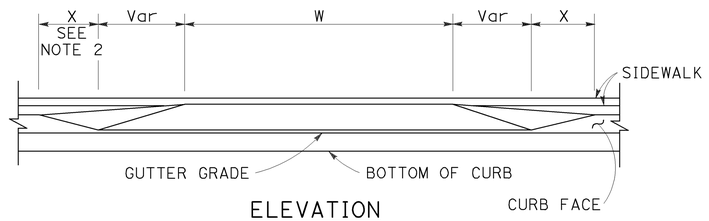
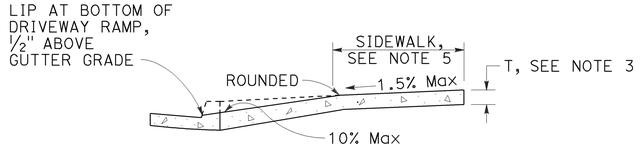
TO ACCOMPANY PLANS DATED 1-20-15



PLAN

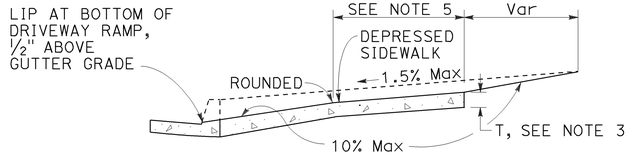


ELEVATION



CASE A

Typical driveway, sidewalk not depressed



CASE B

Driveway with depressed sidewalk

SECTIONS

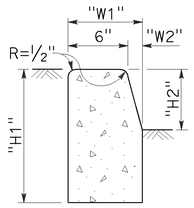
TABLE A

CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7½"	1½"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7½"	1½"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7¼"	1¼"
A3-8	8"	7"	7¾"	1¾"
B1-4	1'-0"	4"	7½"	2½"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7½"	2½"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8½"	3½"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-9"

CURB QUANTITIES

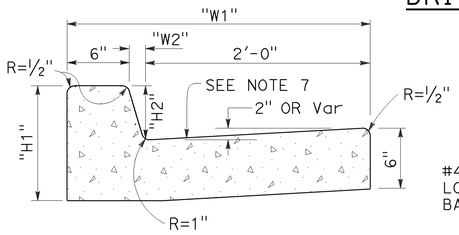
TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661

DRIVEWAYS



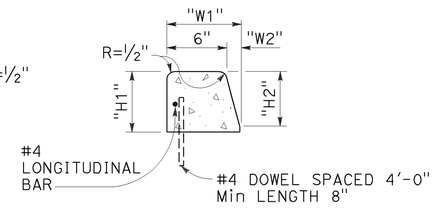
TYPE A1 CURBS

See Table A



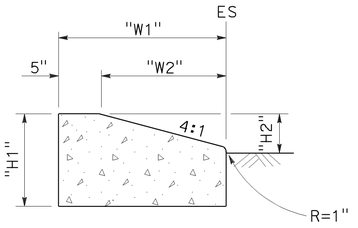
TYPE A2 CURBS

See Table A



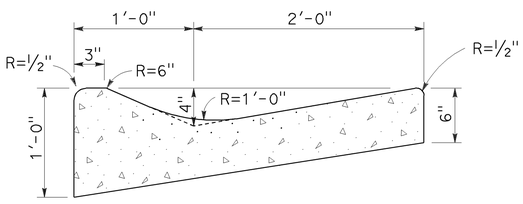
TYPE A3 CURBS

Superimposed on existing pavement
See Table A

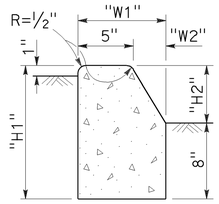


TYPE D CURBS

See Table A

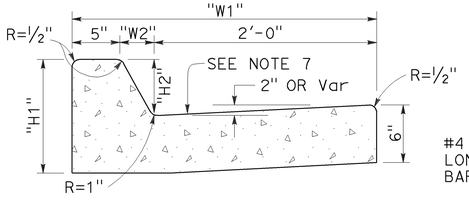


TYPE E CURB



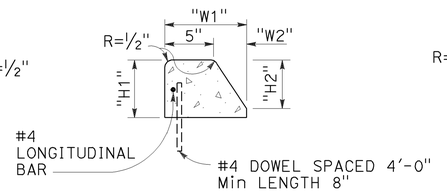
TYPE B1 CURBS

See Table A



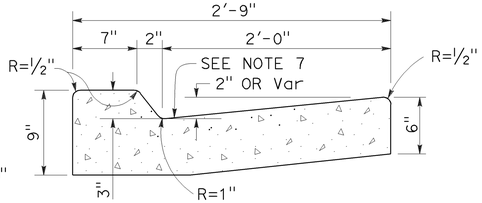
TYPE B2 CURBS

See Table A

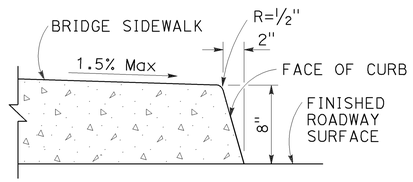


TYPE B3 CURBS

Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB

On Bridges

CURBS

NOTES:

1. Case A driveway section typically applies.
2. X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
3. Sidewalk and ramp thickness "T" at driveway shall be 4" for residental and 6" for commercial.
4. Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
5. Minimum width of clear passageway for sidewalk shall be 4'-2".
6. Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
7. Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

RSP A87A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87A
DATED MAY 20, 2011 - PAGE 119 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87A

2010 REVISED STANDARD PLAN RSP A87A

7-8-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	11	32

William K. Farnbach
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — William K. Farnbach — No. C49042 — Exp. 9-30-14 — CIVIL — STATE OF CALIFORNIA

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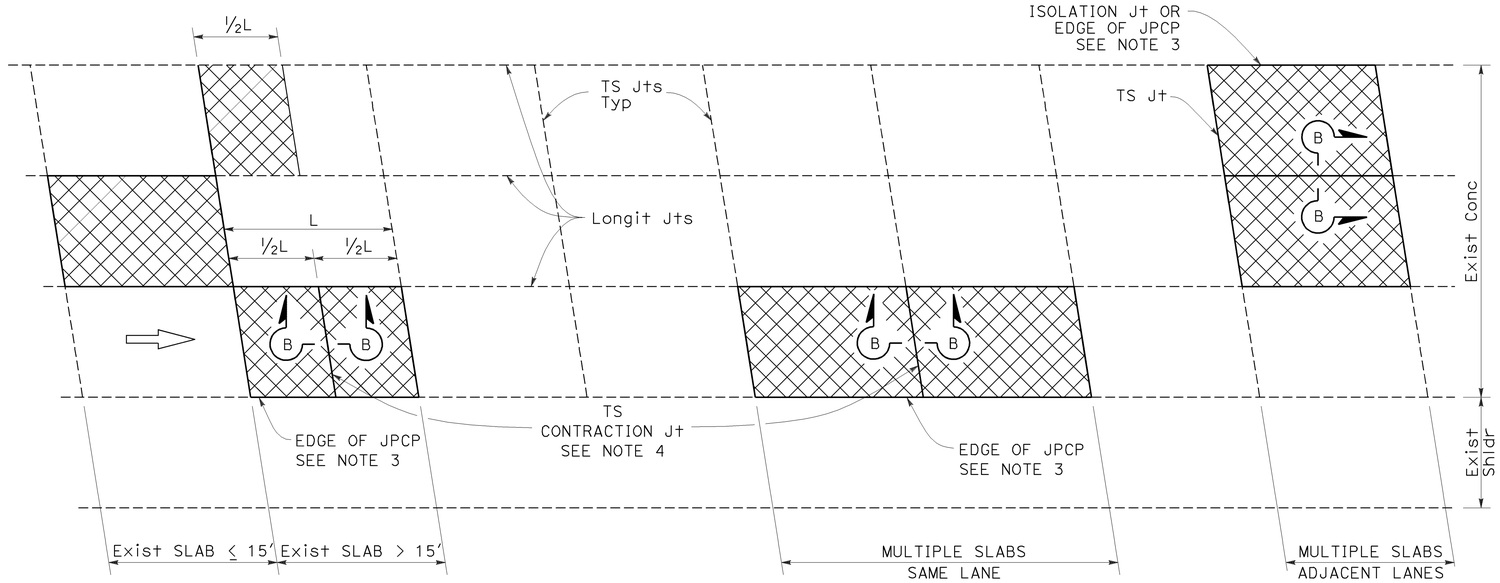
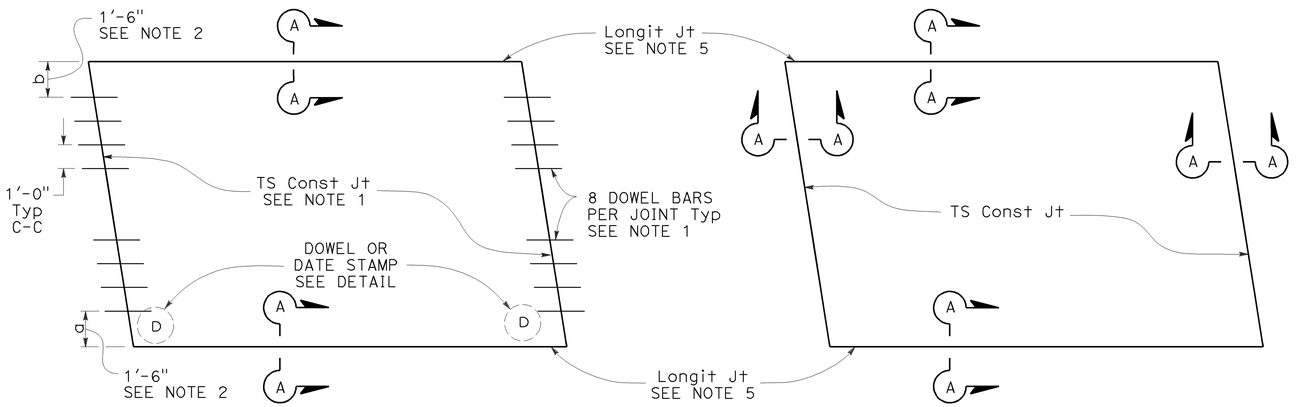
TO ACCOMPANY PLANS DATED 1-20-15

PLAN

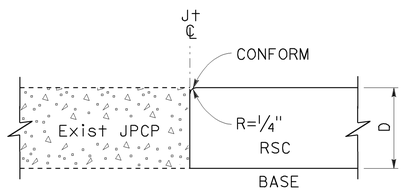


SLAB LAYOUT

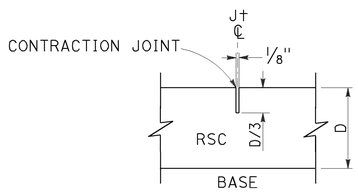


TYPE I
See Design Note 1

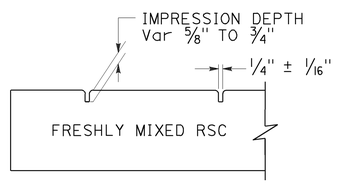
TYPE II
See Design Note 2



SECTION A-A



SECTION B-B



SECTION C-C

LEGEND:

RSC RAPID STRENGTH CONCRETE

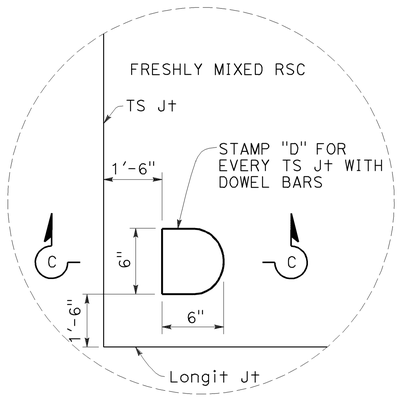
INDIVIDUAL SLAB REPLACEMENT WITH RSC

NOTES:

1. For details not shown, see Revised Standard Plan RSP P10.
2. Where the existing outside shoulder is asphalt concrete pavement, "a" = 1'-0" and "b" = 2'-0".
3. Use side forms where edge of RSC pavement is adjacent to asphalt concrete.
4. Transverse contraction joint to match skew of existing joint. Omit dowel bars.
5. Do not place tie bars at longitudinal joints.

DESIGN NOTES:

1. For concrete slab repair with at least 5 years design life.
2. For short term repairs < 5 yrs design life or for slab replacements with cracking and seating.



DOWEL STAMP DETAIL

DATE STAMP DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

INDIVIDUAL SLAB REPLACEMENT WITH RAPID STRENGTH CONCRETE

NO SCALE

RSP P8 DATED JULY 19, 2013 SUPERSEDES RSP P8 DATED APRIL 20, 2012 AND STANDARD PLAN P8 DATED MAY 20, 2011 - PAGE 130 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P8

2010 REVISED STANDARD PLAN RSP P8

5-31-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	12	32

William K. Farnbach
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — William K. Farnbach — No. C49042 — Exp. 9-30-14 — CIVIL — STATE OF CALIFORNIA

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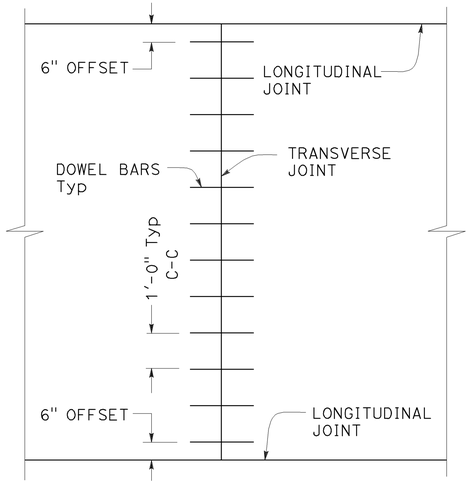
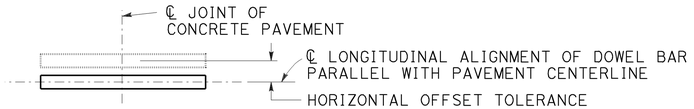
TO ACCOMPANY PLANS DATED 1-20-15

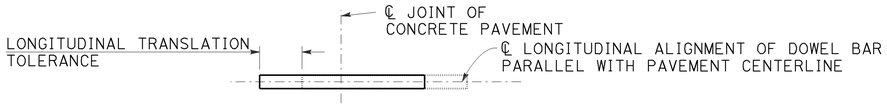


TRANSVERSE JOINT DOWEL BAR LAYOUT



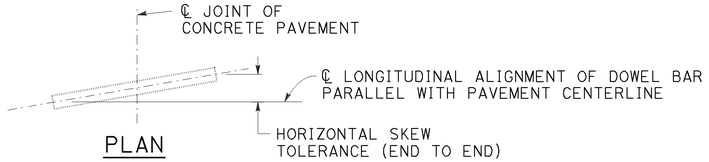
PLAN

HORIZONTAL OFFSET TOLERANCE



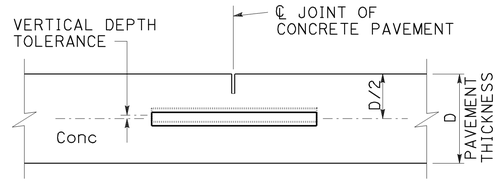
PLAN

LONGITUDINAL TRANSLATION TOLERANCE



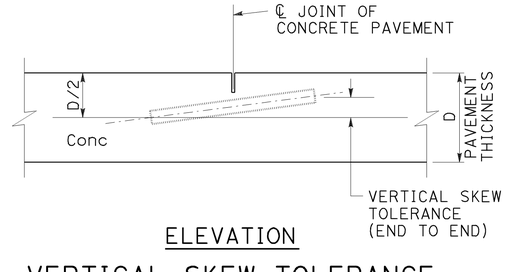
PLAN

HORIZONTAL SKEW TOLERANCE



ELEVATION

VERTICAL DEPTH TOLERANCE

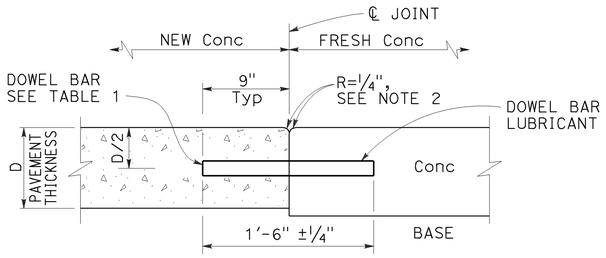


ELEVATION

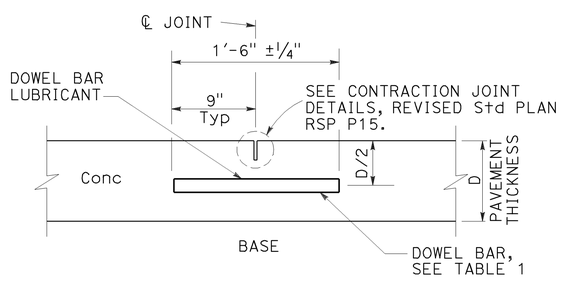
VERTICAL SKEW TOLERANCE

NOTES:

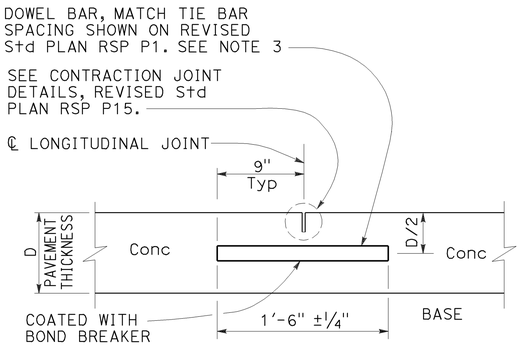
1. See Revised Standard Plan RSP P1 for typical dowel bar placement and locations.
2. Where fresh concrete pavement is placed against new concrete or existing concrete pavement, rounding the corner of the existing concrete pavement is not required.
3. May also use ¾" Dia dowel bars 2'-4" ± ¼" in length. Center the length of dowel bars at the centerline of longitudinal joint.



TRANSVERSE CONSTRUCTION JOINT DETAIL



TRANSVERSE CONTRACTION JOINT



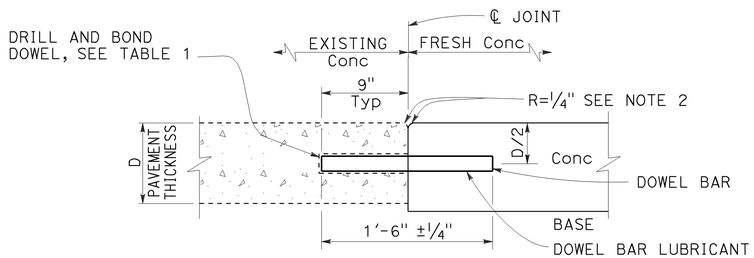
LONGITUDINAL CONTRACTION JOINT WITH DOWEL BARS

See Revised Std Plan RSP P18

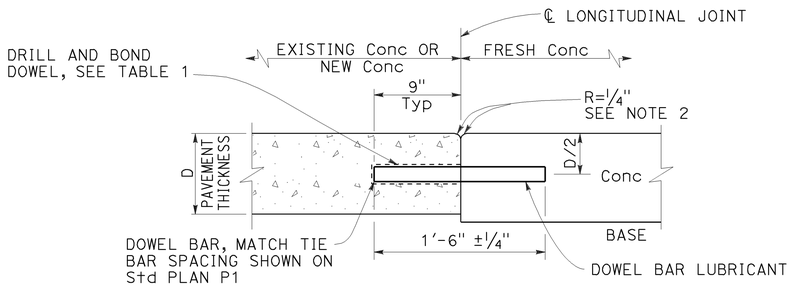
TABLE 1

DOWEL BAR DIAMETER TABLE			
PAVEMENT THICKNESS	0.65'	> 0.65' - 0.85'	> 0.85'
MINIMUM DOWEL * BAR DIAMETER	1"	1¼"	1½"

* The drilled hole diameter must be ⅛" to 3/16" larger than the bar diameter.



TRANSVERSE CONSTRUCTION JOINT FOR EXISTING CONCRETE PAVEMENT



LONGITUDINAL CONSTRUCTION JOINT WITH DOWEL BARS

See Revised Std Plan RSP P18

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT DOWEL BAR DETAILS

NO SCALE

RSP P10 DATED JULY 19, 2013 SUPERSEDES RSP P10 DATED APRIL 20, 2012 AND STANDARD PLAN P10 DATED MAY 20, 2011 - PAGE 131 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P10

2010 REVISED STANDARD PLAN RSP P10

5-31-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	13	32

William K. Farnbach
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — William K. Farnbach — No. C49042 — Exp. 9-30-14 — CIVIL — STATE OF CALIFORNIA

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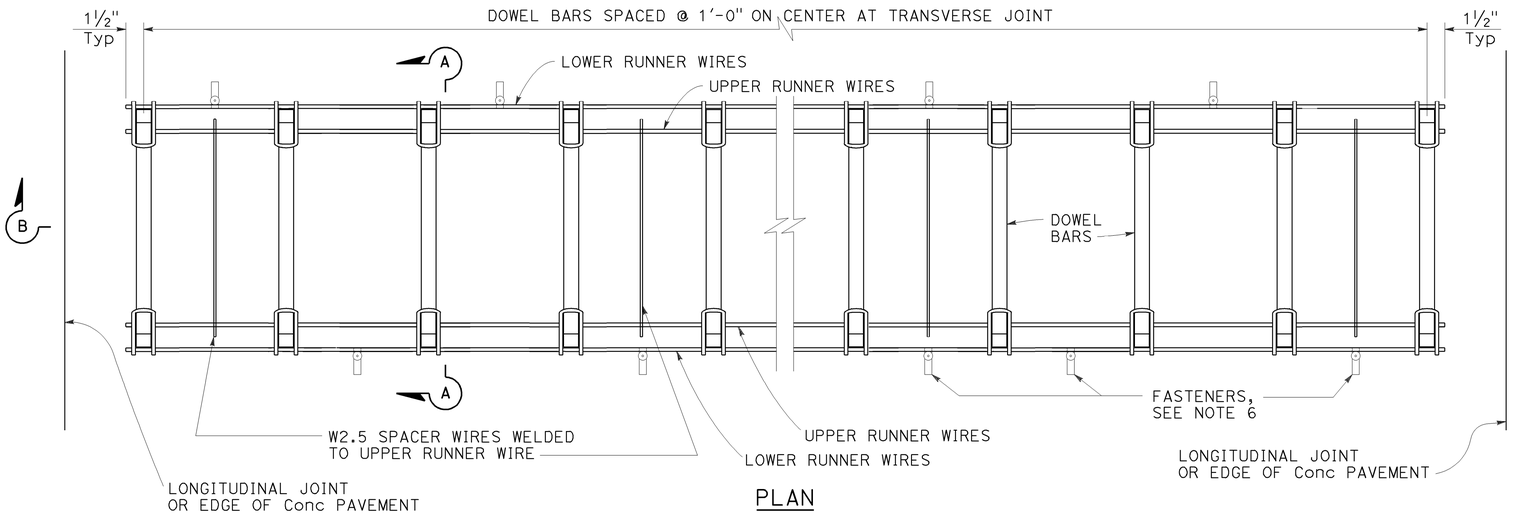
TO ACCOMPANY PLANS DATED 1-20-15

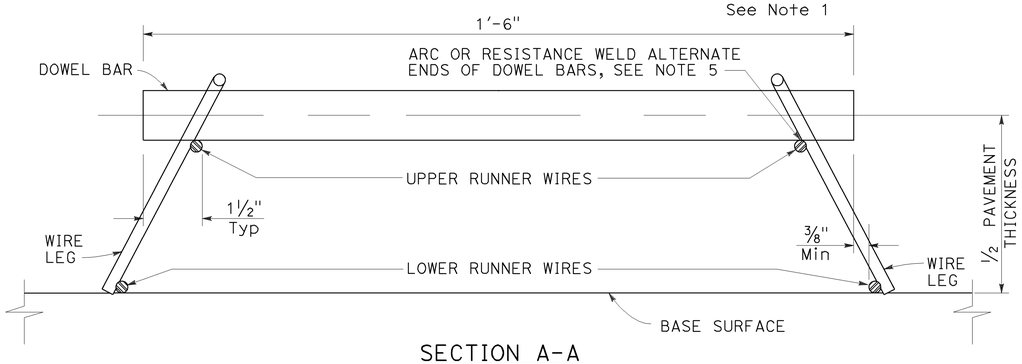
2010 REVISED STANDARD PLAN RSP P12



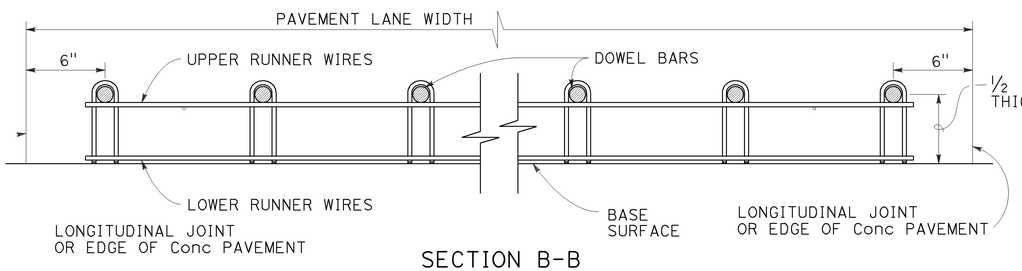
PLAN

DOWEL BAR BASKET (TRANSVERSE JOINT)

See Note 1

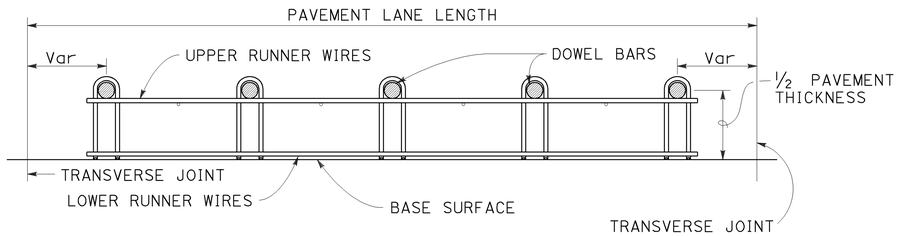


SECTION A-A



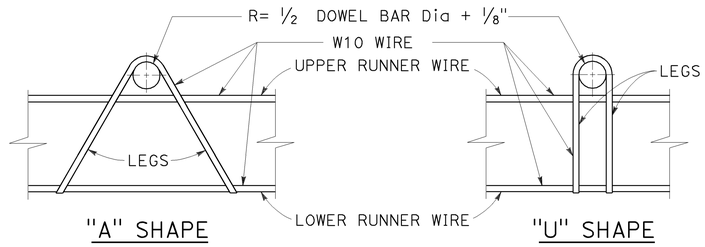
SECTION B-B

See Note 1

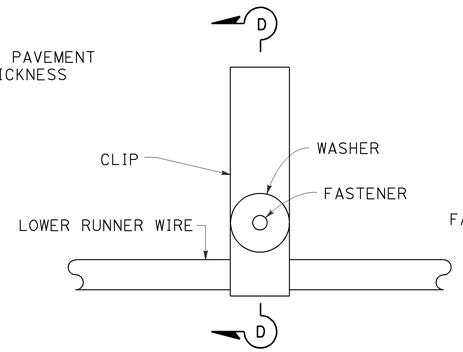


SECTION C-C

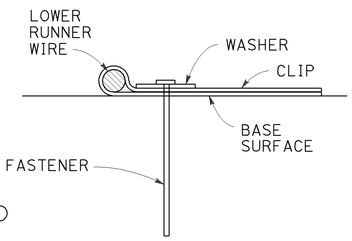
See Notes 1 and 4



ASSEMBLY FRAME DETAILS



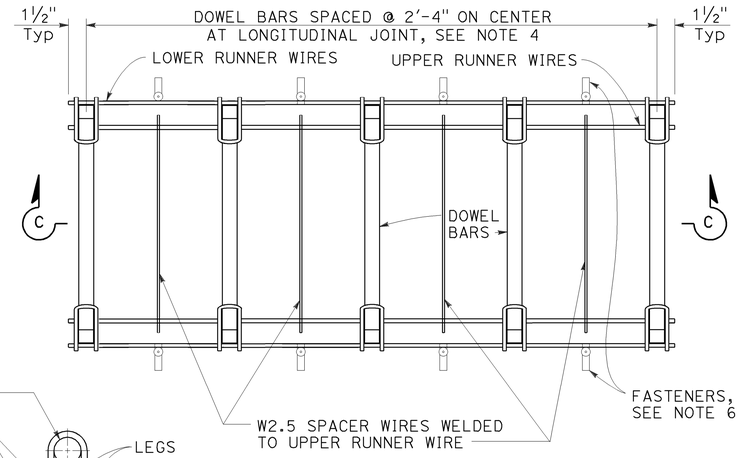
PLAN



SECTION D-D

FASTENER DETAIL

See Note 6



PLAN

DOWEL BAR BASKET (LONGITUDINAL JOINT)

See Note 1

NOTES:

1. "U" frame shape assembly shown. Use either "U" frame shape or "A" frame shape.
2. Wire sizes shown are the minimum required.
3. All wire intersections must be resistance welded.
4. Use tie bar spacing for longitudinal dowel bar locations. See Revised Standard Plans RSP P1, RSP P2, RSP P3A, and RSP P3B for tie bar requirements.
5. Weld may be at the top or bottom of the dowel bar.
6. Use anchor pins where soil or granular base is used. See Revised Standard Plan RSP P17 for Anchor Pin Detail.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT DOWEL BAR BASKET DETAILS

NO SCALE

RSP P12 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN P12
DATED MAY 20, 2011 - PAGE 132 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P12

5-31-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	14	32

William K. Farnbach
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — William K. Farnbach — No. C49042 — Exp. 9-30-14 CIVIL — STATE OF CALIFORNIA

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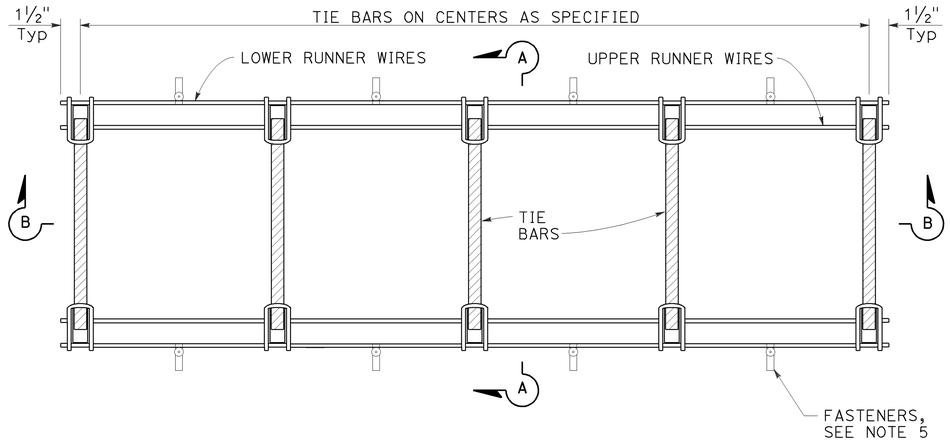
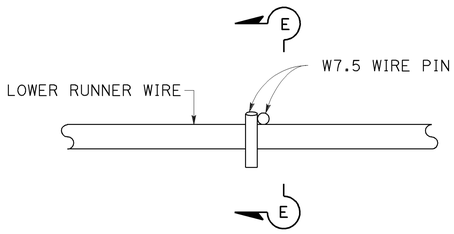
TO ACCOMPANY PLANS DATED 1-20-15



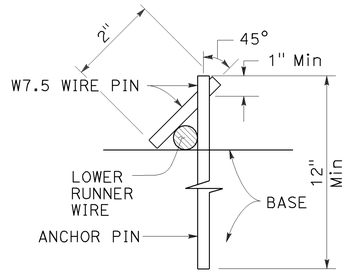
PLAN

TIE BAR BASKET

(Tie bars at longitudinal joint)
See Note 1



PLAN



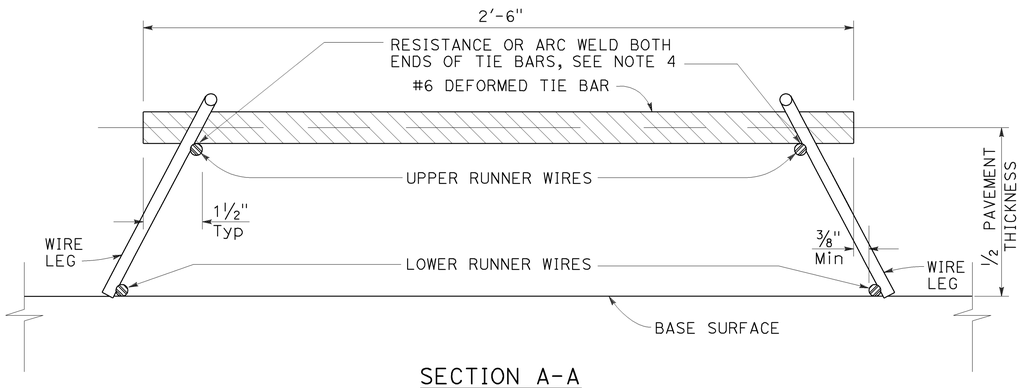
SECTION E-E

ANCHOR PIN DETAIL

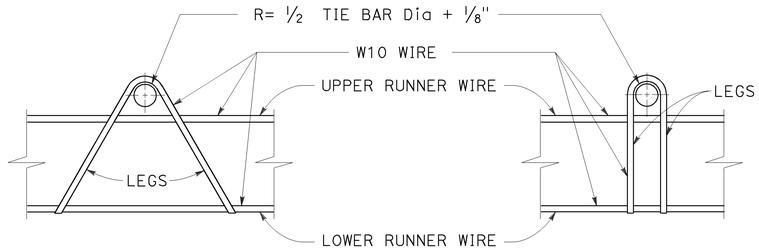
See Note 5

NOTES:

1. "U" frame shape assembly shown. Use either "U" frame shape or "A" frame shape.
2. Wire sizes shown are the minimum required.
3. All wire intersections must be resistance welded.
4. Weld may be at top or bottom of tie bars.
5. Use anchor pins where soil or granular base is used.



SECTION A-A

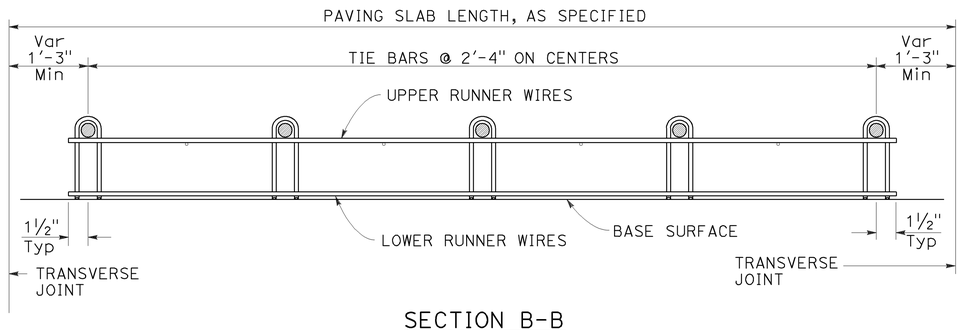


"A" SHAPE

"U" SHAPE

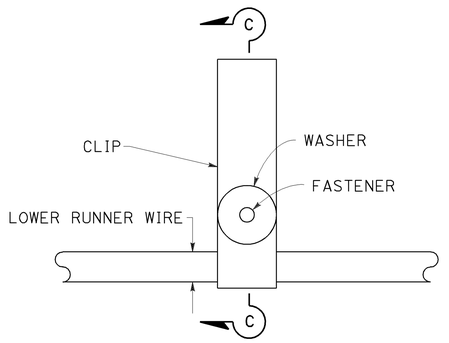
ASSEMBLY FRAME DETAILS

See Note 1

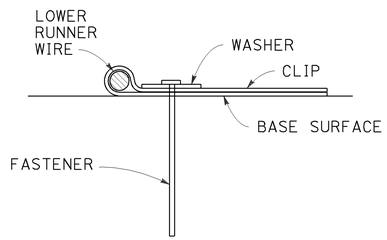


SECTION B-B

See Note 1



PLAN



SECTION C-C

FASTENER DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT TIE BAR BASKET DETAILS

NO SCALE

RSP P17 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN P17
DATED MAY 20, 2011 - PAGE 134 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P17

2010 REVISED STANDARD PLAN RSP P17

5-31-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	15	32

William K. Farnbach
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
William K. Farnbach
No. C49042
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

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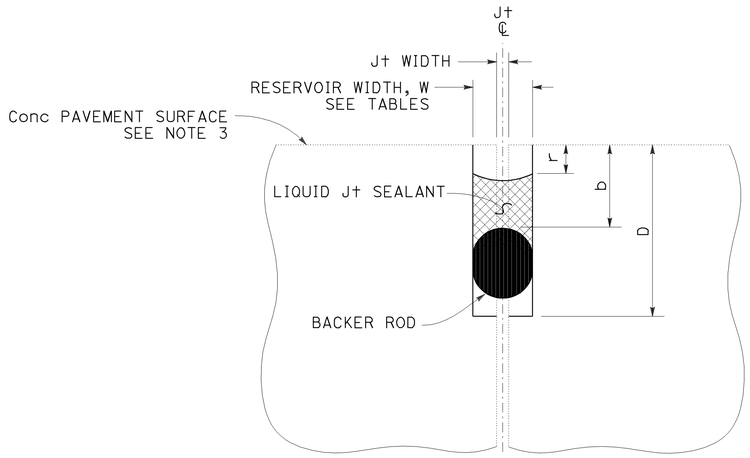
TO ACCOMPANY PLANS DATED 1-20-15

2010 REVISED STANDARD PLAN RSP P20

NOTES:

1. Details do not apply to isolation joints and longitudinal construction joints.
2. Tie bars, dowel bars, and bar reinforcement are not shown.
3. Depths are measured from the final concrete pavement surface elevation after any grinding.

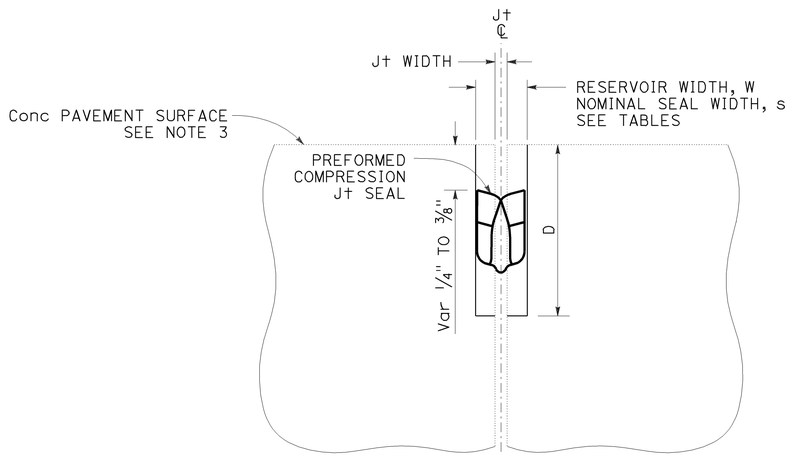


LIQUID JOINT SEALANT

RESERVOIR WIDTH W ±1/16"	LIQUID JOINT SEALANT DIMENSIONS					
	BACKER ROD NOMINAL Dia *	DEPTHS (ASPHALT RUBBER) **		DEPTHS (SILICONE)		
		RESERVOIR D ± 1/4"	BACKER ROD b ± 1/16"	RESERVOIR D ± 1/4"	BACKER ROD b ± 1/16"	RECESS r ± 1/16"
1/4"	3/8"	1 3/4"	7/8"	1 3/8"	1/2"	1/4"
3/8"	1/2"	1 7/8"	7/8"	1 1/2"	1/2"	1/4"
1/2"	3/4"	2"	7/8"	1 3/4"	9/16"	5/16"
5/8"	7/8"	2 1/4"	1"	2"	5/8"	5/16"
3/4"	1"	2 3/4"	1 1/8"	2 1/4"	3/4"	3/8"
7/8"	1 1/4"	3"	1 1/4"	2 1/2"	13/16"	3/8"
1"	1 1/2"	3 1/4"	1 3/8"	2 5/8"	7/8"	3/8"
1 1/8"	1 1/2"	3 1/2"	1 1/2"	2 13/16"	1"	1/2"

* Larger diameter backer rods may be substituted according to manufacturer recommendations if reservoir depth is increased equivalently.

** Asphalt rubber sealant recess depth "r" varies from 1/4" to 3/8"



PREFORMED COMPRESSION JOINT SEAL

RESERVOIR WIDTH W ±1/16"	PREFORMED COMPRESSION JOINT SEAL DIMENSIONS	
	NOMINAL SEAL WIDTH s	RESERVOIR DEPTH D ± 1/4"
1/4"	7/16"	1 1/4"
3/8"	11/16"	1 7/16"
1/2"	13/16"	1 11/16"
5/8"	1"	1 7/8"
3/4"	1 1/4"	2 1/8"
7/8"	1 5/8"	2 5/8"
1"	1 5/8"	2 5/8"
1 1/8"	2"	2 7/8"

Const SEASON	Min RESERVOIR WIDTH * W ± 1/16"
WINTER	1/4"
SPRING	3/8"
SUMMER	
FALL	

* Minimum reservoir width for replace joint seal = existing joint width + 1/8"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINT SEALS

NO SCALE

RSP P20 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN P20
DATED MAY 20, 2011 - PAGE 136 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P20

6-17-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	16	32

REGISTERED CIVIL ENGINEER

July 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 1-20-15

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.

2010 REVISED STANDARD PLAN RSP T9

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

4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	17	32

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 1-20-15

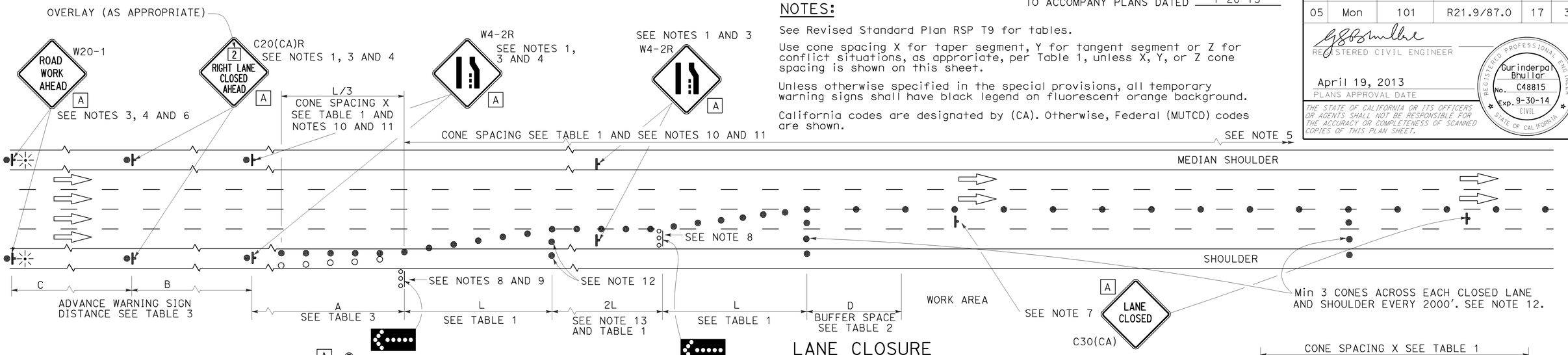
NOTES:

See Revised Standard Plan RSP T9 for tables.

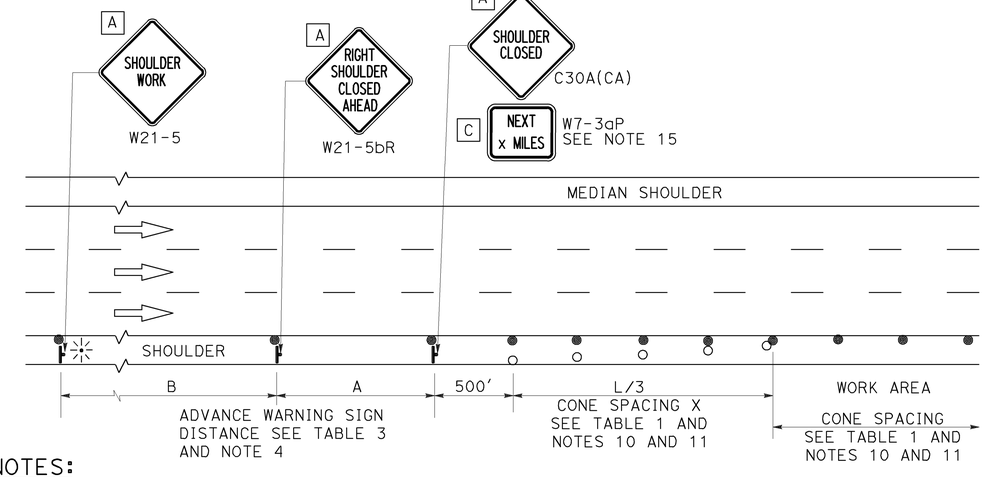
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

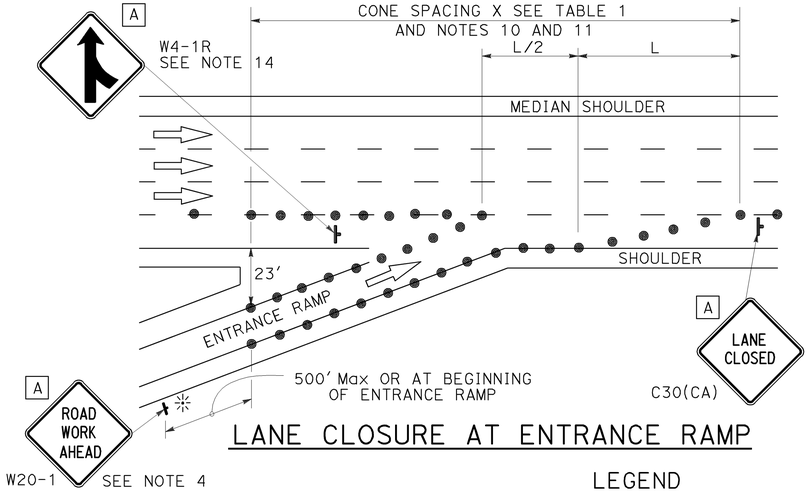
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



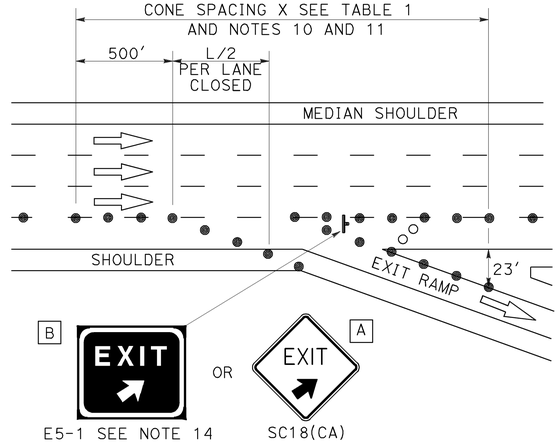
LANE CLOSURE



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

12-18-12

TO ACCOMPANY PLANS DATED 1-20-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	18	32

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

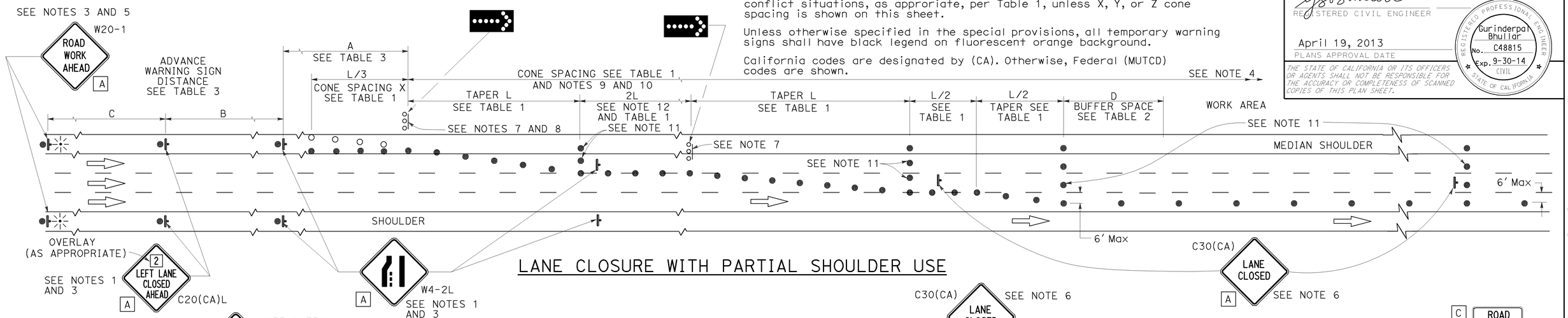
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:
See Revised Standard Plan RSP T9 for tables.

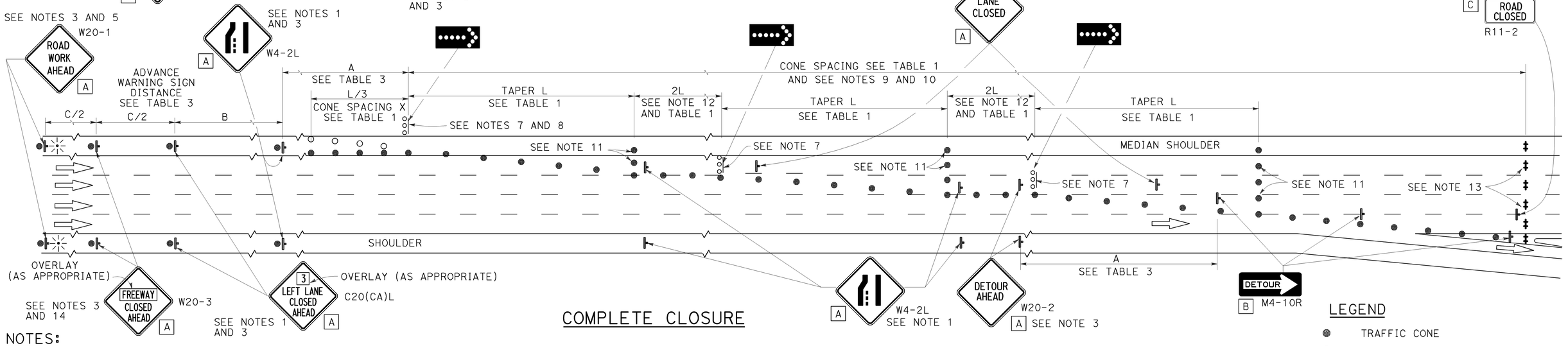
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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 WITH PARTIAL SHOULDER USE



COMPLETE CLOSURE

NOTES:

1. 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.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. 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.
4. 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.
5. 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.
6. Place a C30(CA) sign every 2000' throughout length of lane closure.
7. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
8. 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.
9. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
10. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
11. 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.
12. 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.
13. 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.
14. 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

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	19	32

Devinder Singh
REGISTERED CIVIL ENGINEER

October 17, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Devinder Singh — No. C50470 — 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.

TO ACCOMPANY PLANS DATED 1-20-15

NOTES:

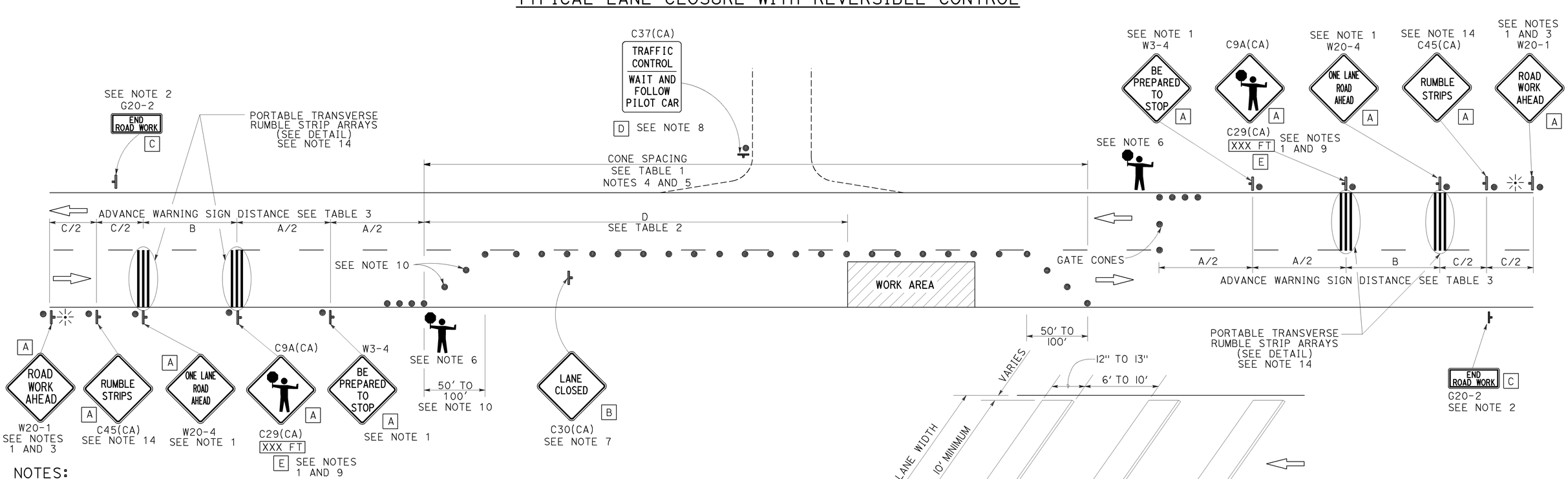
See Revised Standard Plan RSP T9 for tables.

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.

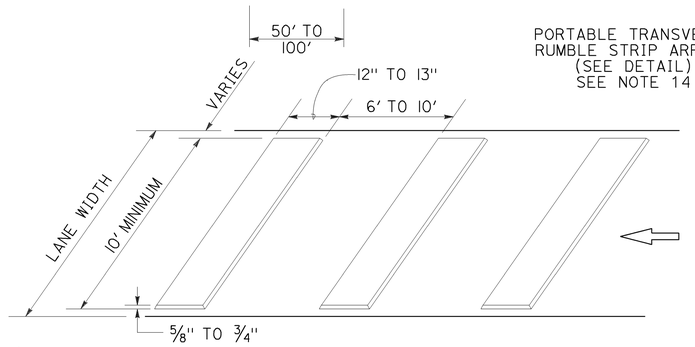
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



NOTES:

1. 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.
2. 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.
3. 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.
4. All cones used for lane 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 closures only.
6. 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.
7. 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.
8. 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.
9. An optional C29(CA) sign may be placed below the C9A(CA) sign.
10. Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
11. The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
12. Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
13. 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.
14. Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
    A. Work duration occupies a location for four hours or less
    B. Posted speed limit is below 45 MPH
    C. Work is of emergency nature
    D. Work zone is in snow or icy weather conditions



PORTABLE TRANSVERSE RUMBLE STRIP ARRAY DETAIL

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"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

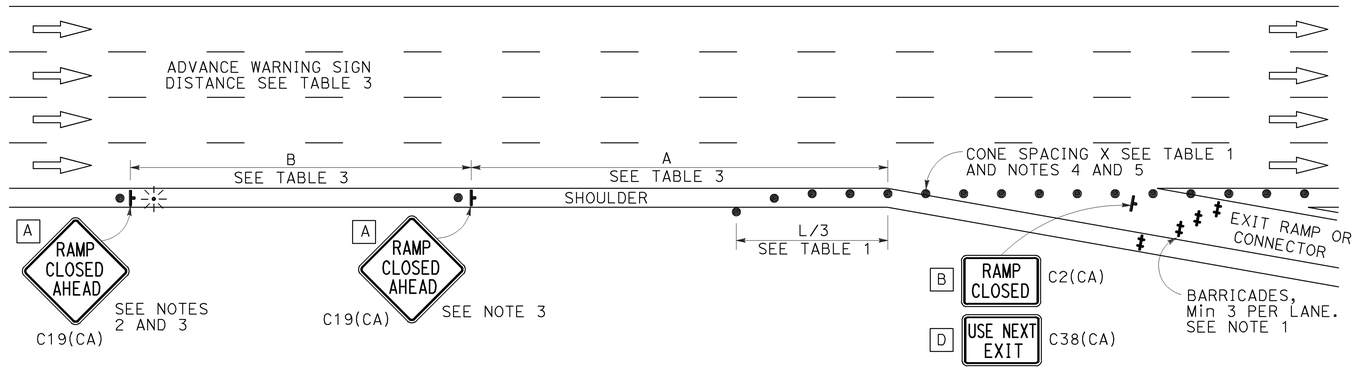
RSP T13 DATED OCTOBER 17, 2014 SUPERSEDES RSP T13 DATED JULY 18, 2014 AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

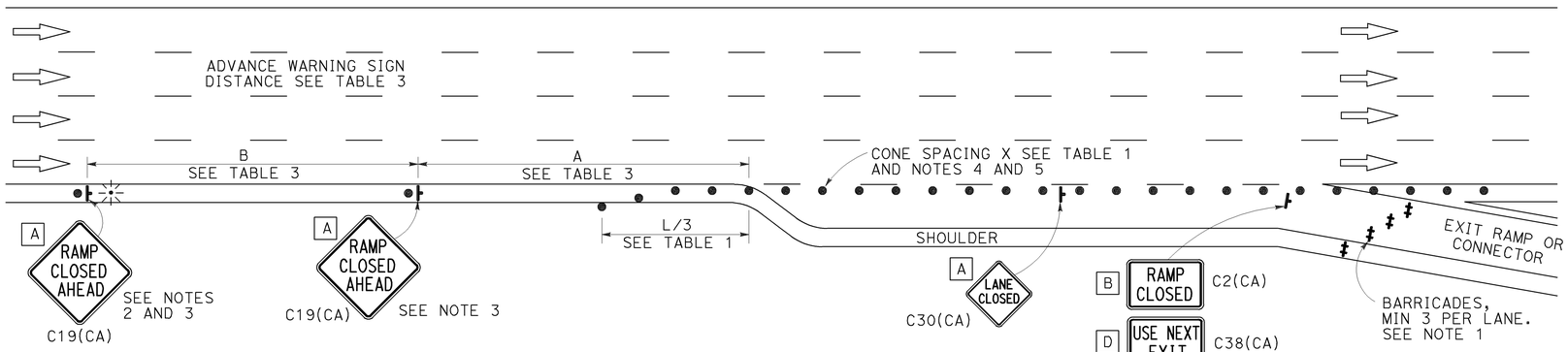
2010 REVISED STANDARD PLAN RSP T13

9-26-14

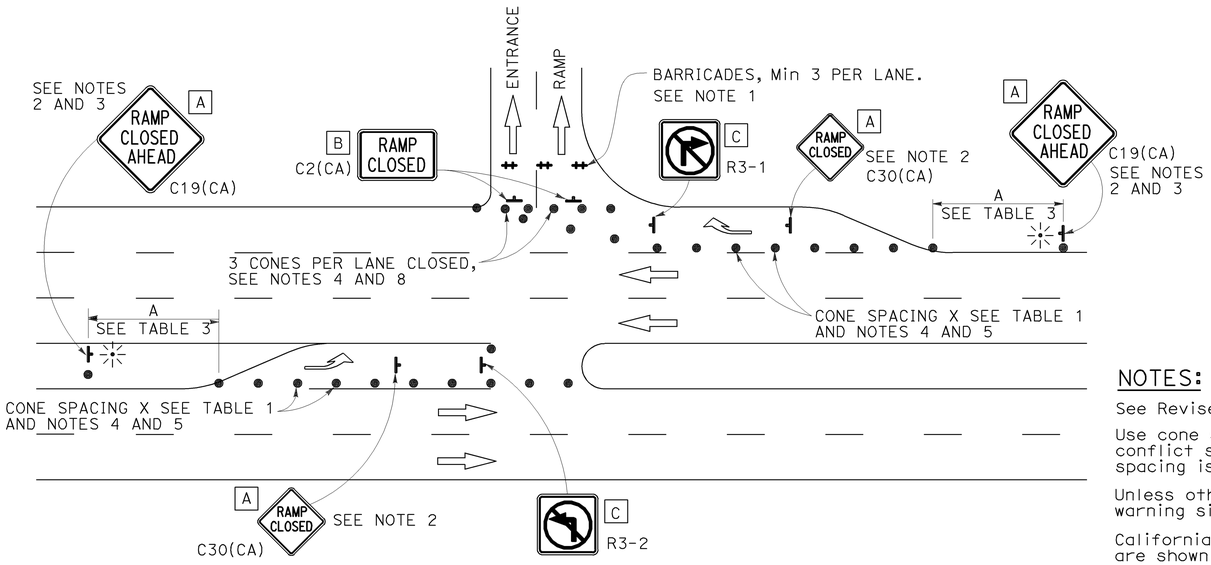
TYPICAL RAMP CLOSURES



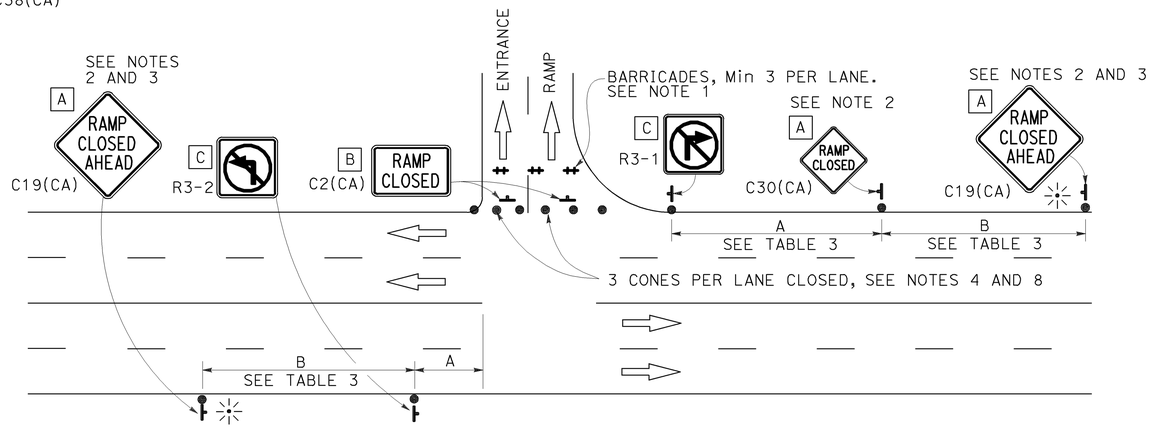
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

SIGN PANEL SIZE (Min)

A	48" × 48"
B	48" × 30"
C	36" × 36"
D	48" × 36"

LEGEND

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

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" × 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.

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.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	20	32

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 1-20-15

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

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	21	32

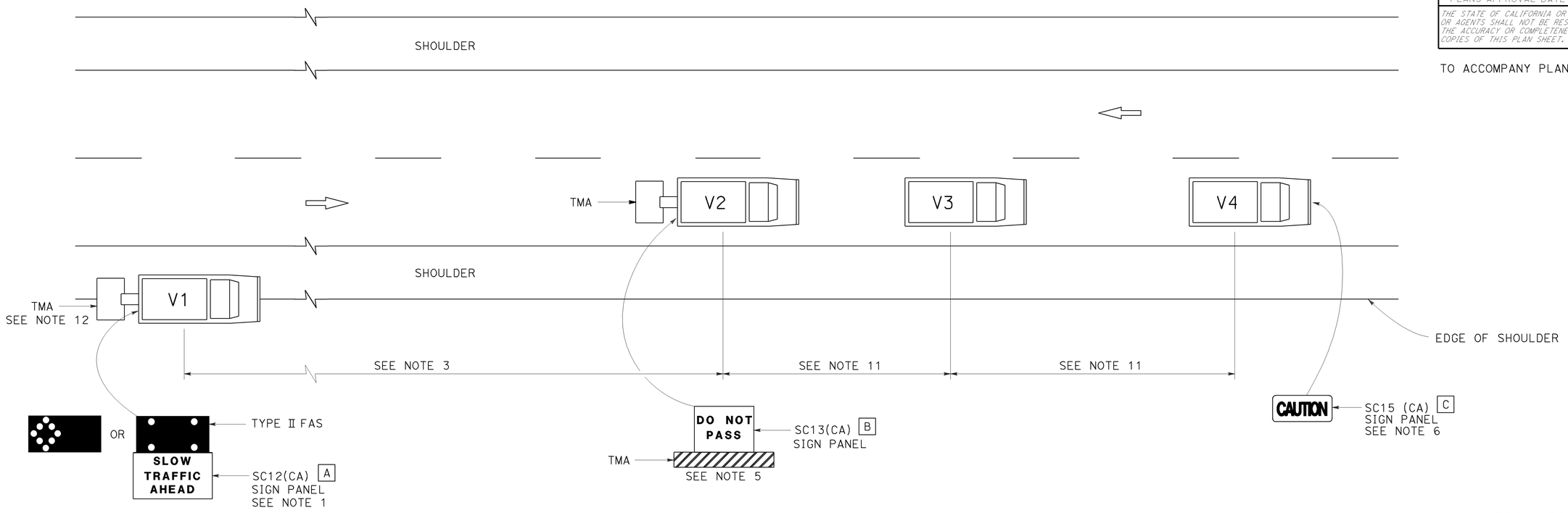
REGISTERED CIVIL ENGINEER

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 1-20-15



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.

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"

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

2010 REVISED STANDARD PLAN RSP T17

12-18-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	22	32

10-22-14
REGISTERED CIVIL ENGINEER DATE

1-20-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUBERT DANG
No. C 69174
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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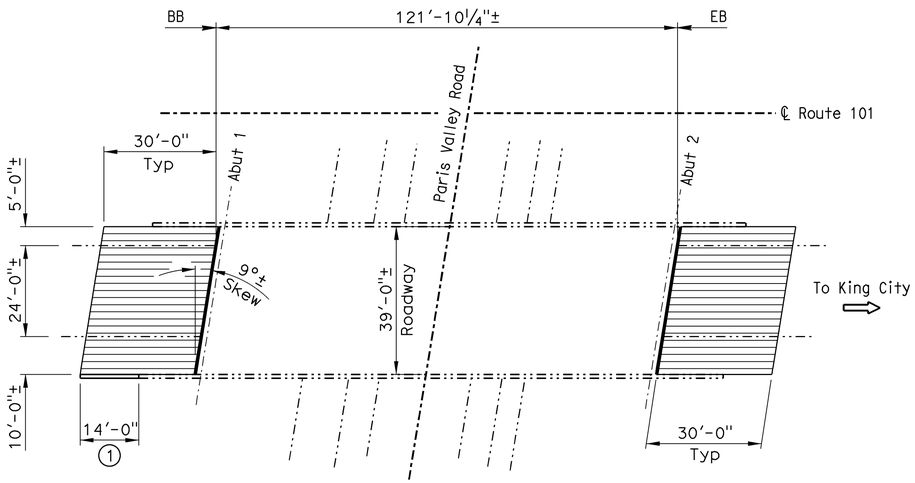


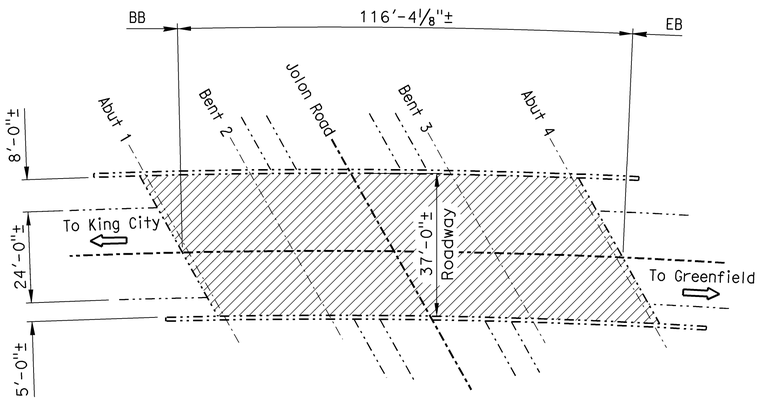
SAN ARDO UNDERCROSSING

Br No. 44-0193R, MON, ROUTE 101, PM R21.99
1" = 20′

SAN ARDO UNDERCROSSING BRIDGE NO. 44-0193R

QUANTITIES

AGGREGATE BASE (APPROACH SLAB)	9	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	87	CY
PAVING NOTCH EXTENSION	60	CF
JOINT SEAL (MR½")	80	LF
MINOR CONCRETE (CURB) (LF)	14	LF



JOLON UNDERCROSSING

Br No. 44-0181L, MON, ROUTE 101, PM R41.95
1" = 20′

JOLON UNDERCROSSING BRIDGE NO. 44-0181L

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	4,307	SQFT
TREAT BRIDGE DECK	4,307	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	48	GAL

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTES: (APPLY TO ALL SHEETS)
-·-·-·- Indicates existing.

LEGEND: (APPLY TO THIS SHEET ONLY)

Indicates limits of remove existing approach and place new Structure Approach Type R(30D). For details, see "STRUCTURE APPROACH TYPE R(30D) sheet.

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

① Indicates location of construct new concrete Type B3-6 curb. For details, see Standard Plan A87A. Conform to existing FL AC dike.

Indicates location of replace joint seal. For details, see "JOINT SEAL DETAILS" 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	MISCELLANEOUS DETAILS
7	JOINT SEAL DETAILS
8	STRUCTURE APPROACH TYPE R(30D)
9	STRUCTURE APPROACH TYPE R(30S)
10	JOINT SEAL ASSEMBLY AT ABUTMENT
11	SOFFIT OPENINGS DETAILS

STANDARD PLANS DATED 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
RSP A87A	CURBS AND DRIVEWAYS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING=2")
B0-5	BRIDGE DETAILS
B7-5	DECK DRAINS

STANDARD PLAN SHEET NUMBER
DETAIL NUMBER

10-22-14 Michael J. Lee
DESIGN ENGINEER

	BY	CHECKED
DESIGN	H. DANG	J. Radu
DETAILS	M. Hallstrom	J. Radu
QUANTITIES	H. DANG	J. Radu

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	M. Hallstrom	J. Radu
SPECIFICATIONS	E. Mansoubi	E. Mansoubi

PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

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

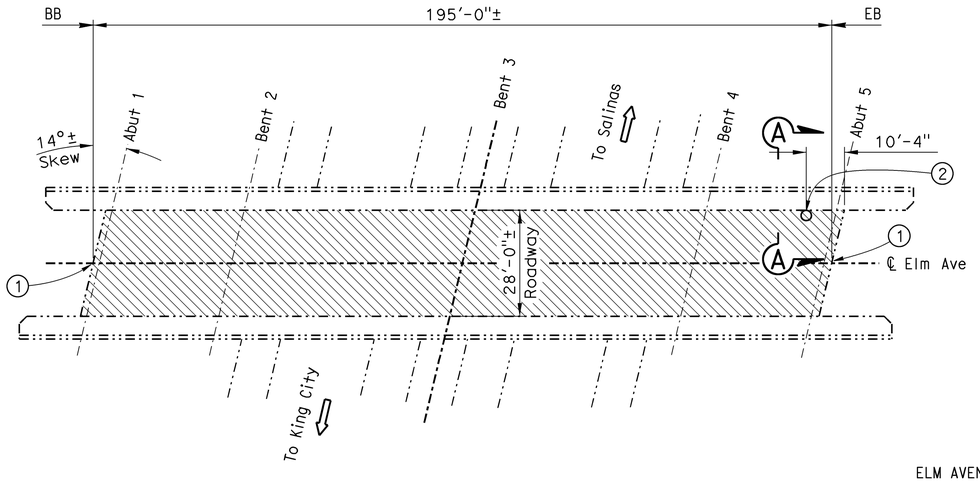
UNIT: 3488
PROJECT NUMBER & PHASE: 0513000013 1 CONTRACT NO.: 05-1C9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES | SHEET 1 | OF 11

FILE => 05-1c9301_01gp_01.dgn

USERNAME => s115755 DATE PLOTTED => 15-JAN-2015 TIME PLOTTED => 10:44



ELM AVENUE OVERCROSSING

Br No. 44-0166, MON, ROUTE 101, PM 53.11
1" = 20'

LEGEND: (APPLY TO THIS SHEET ONLY)

Indicates limits of remove 1" AC, prepare concrete bridge deck surface and treat bridge deck with high molecular methacrylate.

Indicates limits of Bridge Removal (Portion). Retain reinforcing steel.

Indicates limits of Structural Concrete Bridge. See GENERAL NOTES on "MISCELLANEOUS DETAILS" sheet.

(1) See "Roadway Plans" for overlay conform details.

(2) Construct new Type A Deck Drain. For details, see B7-5 / 7-1

ELM AVENUE OVERCROSSING BRIDGE NO. 44-0166

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	5,460	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	5,460	SQFT
TREAT BRIDGE DECK	5,460	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	61	GAL
ACCESS OPENING, SOFFIT	1	EA
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	1	CY
BRIDGE DECK DRAINAGE SYSTEM	85	LB

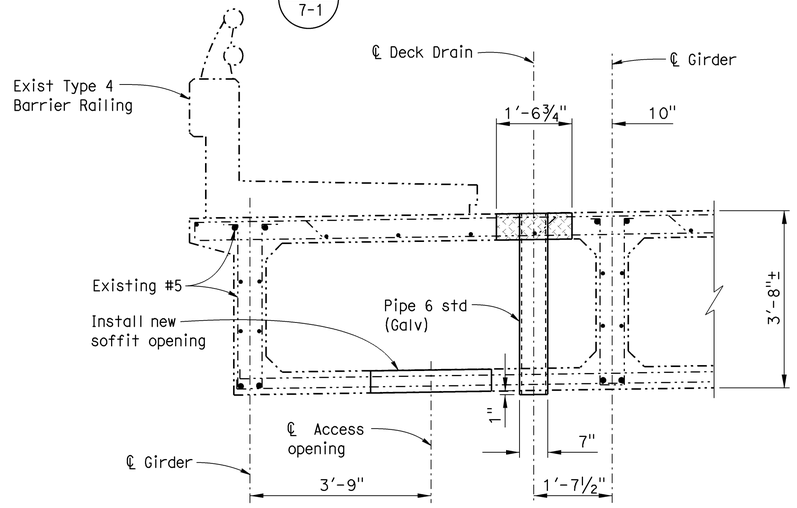
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	23	32

10-22-14
REGISTERED CIVIL ENGINEER DATE

1-20-15
PLANS APPROVAL DATE

HUBERT DANG No. C 69174 Exp. 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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



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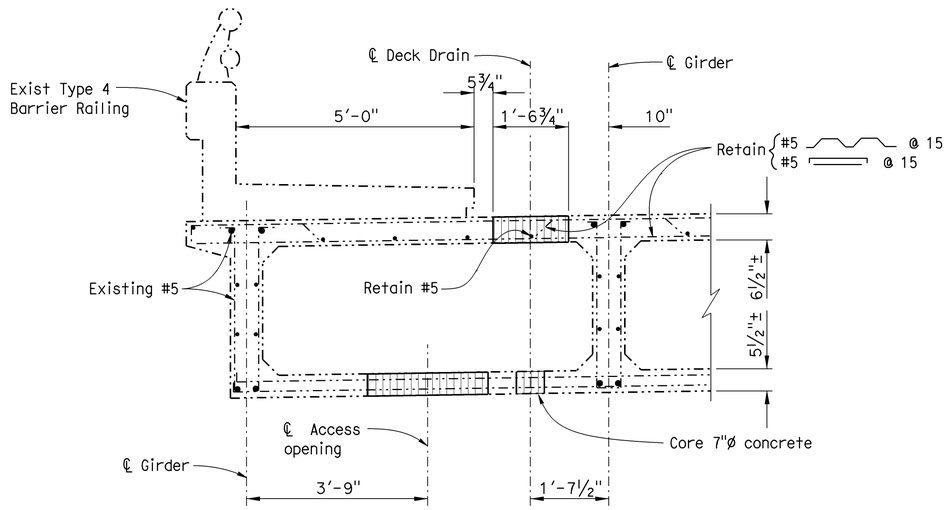
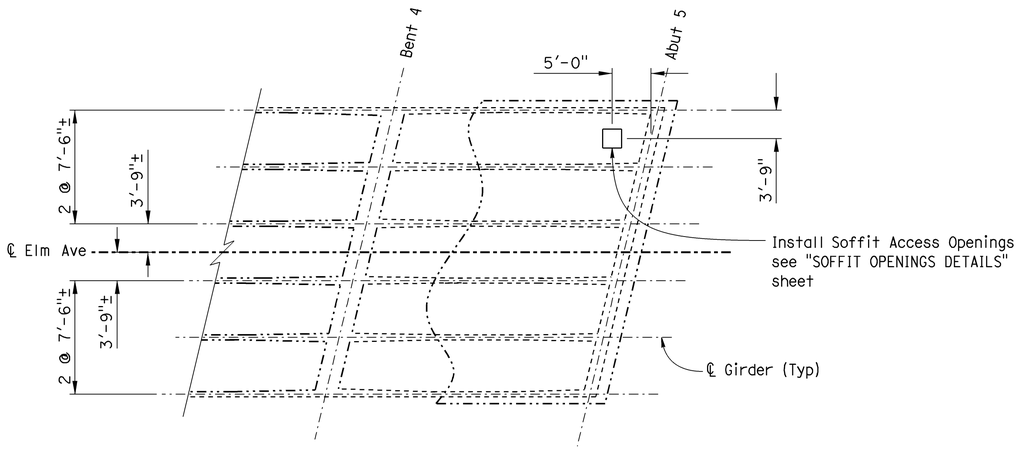


EXISTING

SECTION A-A

Br No. 44-0166
NO SCALE



PARTIAL GIRDER LAYOUT

Br No. 44-0166, MON, ROUTE 101, PM 53.11
1" = 10'

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

10-22-14 Michael J. Lee
DESIGN ENGINEER

DESIGN	BY H. DANG	CHECKED J. Radu	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY M. Hallstrom	CHECKED J. Radu	LAYOUT	BY M. HALLSTROM	CHECKED J. Radu		
QUANTITIES	BY H. DANG	CHECKED J. Radu	SPECIFICATIONS	BY E. Mansoubi	PLANS AND SPECS COMPARED E. Mansoubi		

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

UNIT: 3488
PROJECT NUMBER & PHASE: 0513000013 1 CONTRACT NO.: 05-1C9301

BRIDGE NO. VARIOUS
POST MILE VARIES

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES

ROUTE 101 BRIDGES
GENERAL PLAN NO. 2

SHEET 2 OF 11

FILE => 05-1c9301_02gp_02.dgn

USERNAME => s115755 DATE PLOTTED => 15-JAN-2015 TIME PLOTTED => 10:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	24	32

REGISTERED CIVIL ENGINEER — 10-22-14 DATE

1-20-15
PLANS APPROVAL DATE

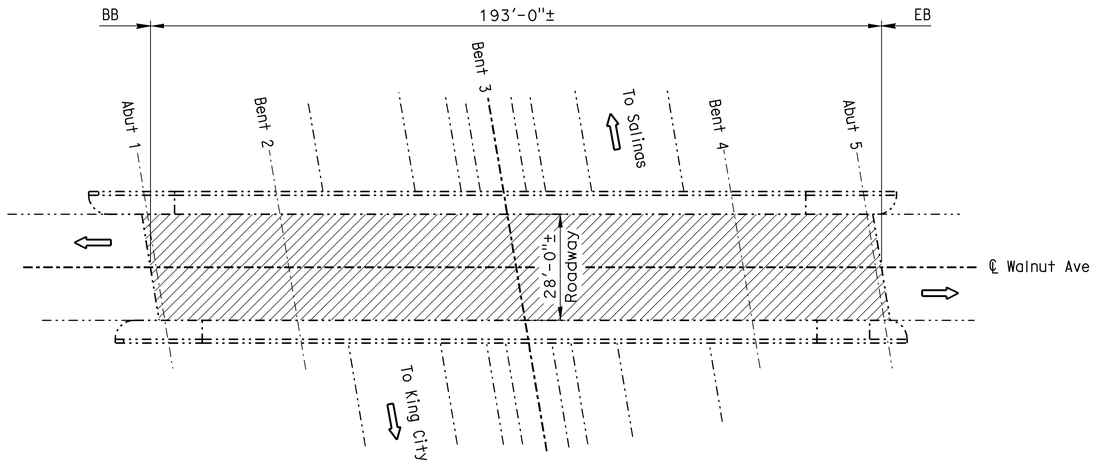
HUBERT DANG
No. C 69174
Exp. 6-30-16
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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

LEGEND: (APPLY TO THIS SHEET ONLY)

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

Indicates limits of install Joint Seal Assembly. For details, see "SECTION A-A" on "MISCELLANEOUS DETAILS" sheet.



WALNUT AVENUE OVERCROSSING

Br No. 44-0135, MON, ROUTE 101, PM 53.86
1" = 20'

WALNUT AVENUE OVERCROSSING — BRIDGE NO. 44-0135

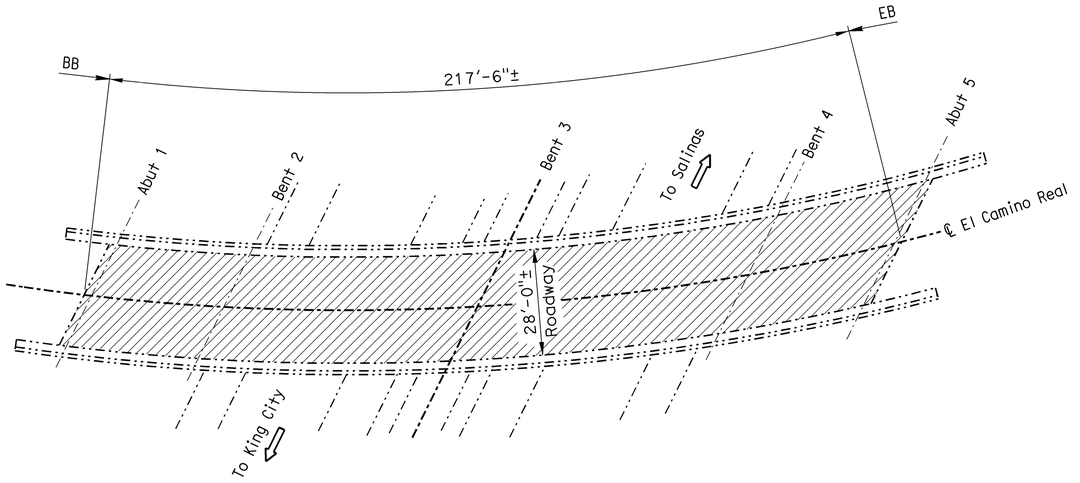
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,404	SQFT
TREAT BRIDGE DECK	5,404	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	60	GAL

NORTH GREENFIELD OVERCROSSING — BRIDGE NO. 44-0136

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	6,090	SQFT
TREAT BRIDGE DECK	6,090	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	68	GAL



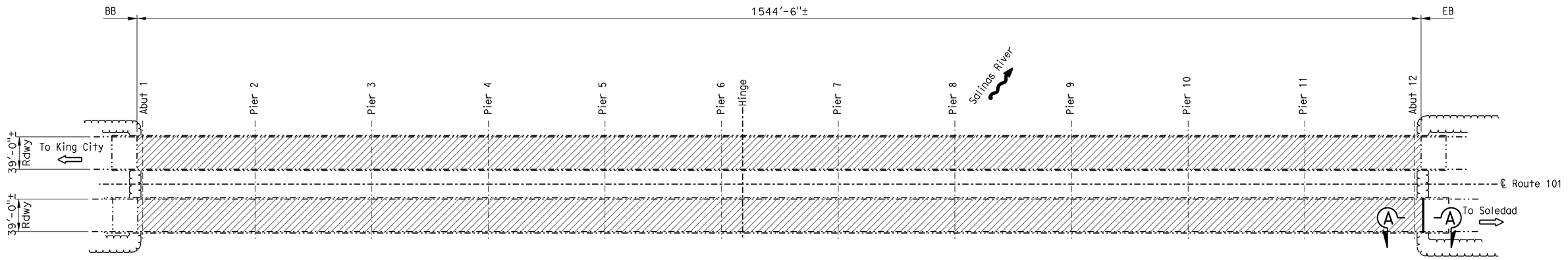
NORTH GREENFIELD OVERCROSSING

Br No. 44-0136, MON, ROUTE 101, PM 54.79
1" = 20'

SALINAS RIVER — BRIDGE NO. 44-0002L/R

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	120,471	SQFT
TREAT BRIDGE DECK	120,471	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	1,339	GAL
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	5	CY
JOINT SEAL ASSEMBLY (MR 6")	40	LF
BAR REINFORCING STEEL (BRIDGE)	68	LB



SALINAS RIVER

Br No. 44-0002L/R, MON, ROUTE 101, PM 60.75
1" = 20'

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

10-22-14 Michael J. Lee
DESIGN ENGINEER

	BY	CHECKED
DESIGN	H. DANG	J. Radu
DETAILS	M. Hallstrom	J. Radu
QUANTITIES	H. DANG	J. Radu

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	M. HALLSTROM	J. Radu
SPECIFICATIONS	E. Mansoubi	PLANS AND SPECS COMPARED E. Mansoubi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

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: 0513000013 1 CONTRACT NO.: 05-1C9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
				3	11

FILE => 05-1c9301_03gp_03.dgn

USERNAME => s115755 DATE PLOTTED => 15-JAN-2015 TIME PLOTTED => 10:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	25	32

10-22-14
REGISTERED CIVIL ENGINEER DATE

1-20-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUBERT DANG
No. C 69174
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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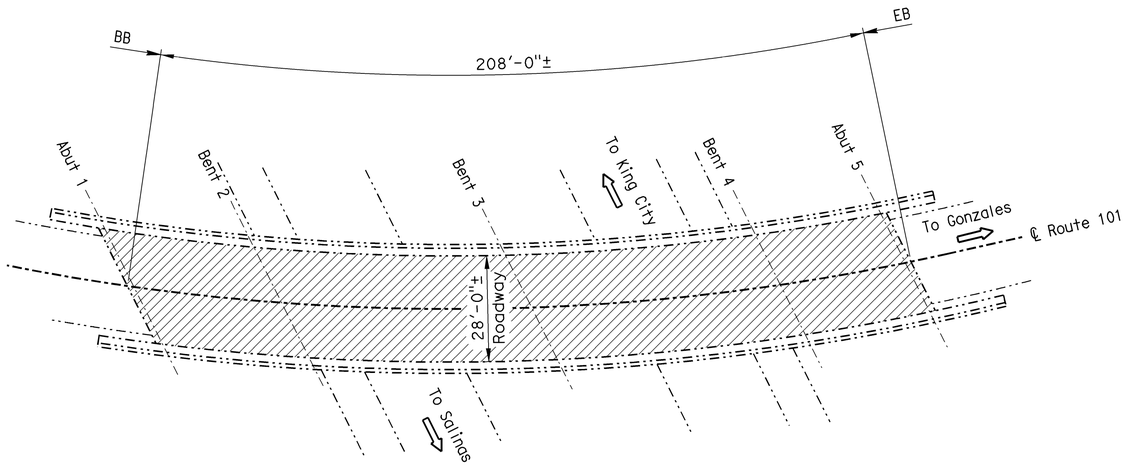


SOUTH GONZALES OVERCROSSING

Br No. 44-0078, MON, ROUTE 101, PM 69.37
1" = 20'

SOUTH GONZALES OVERCROSSING — BRIDGE NO. 44-0078

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,824	SQFT
TREAT BRIDGE DECK	5,824	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	65	GAL

NORTH GONZALES OVERCROSSING — BRIDGE NO. 44-0092

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	6,362	SQFT
TREAT BRIDGE DECK	6,362	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	71	GAL

ABBOT UNDERCROSSING — BRIDGE NO. 44-0119L

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	3,201	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	320	CF
PLACE POLYESTER CONCRETE OVERLAY	3,201	SQFT
AGGREGATE BASE (APPROACH SLAB)	12	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	120	CY
JOINT SEAL (MR1/2")	134	LF

LEGEND: (APPLY TO THIS SHEET ONLY)

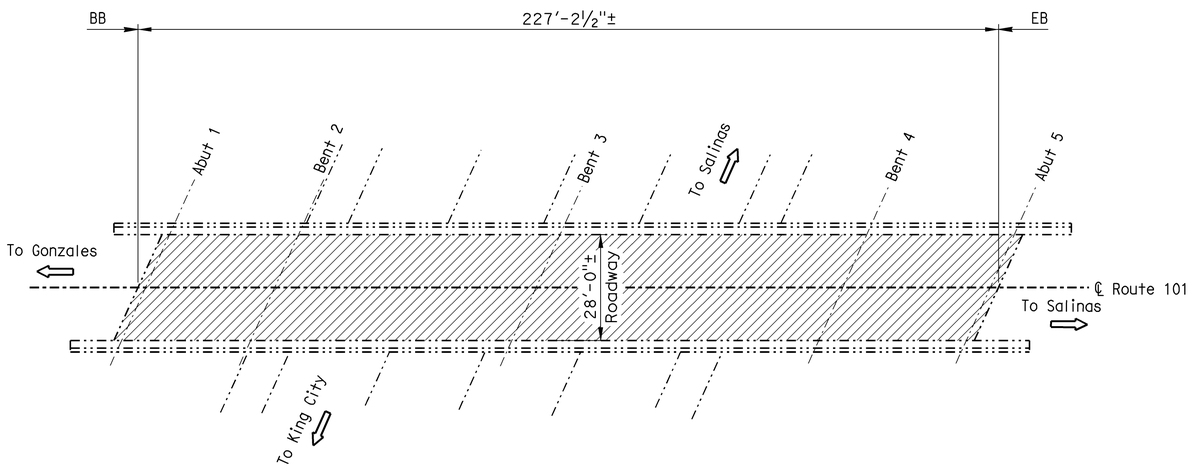
Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.

Indicates limits of prepare concrete bridge deck surface, furnish, and place 1" polyester concrete overlay.

Indicates limits of remove existing approach and place new Structure Approach Type R(30S). For details, see "STRUCTURE APPROACH TYPE R(30S)" sheet.

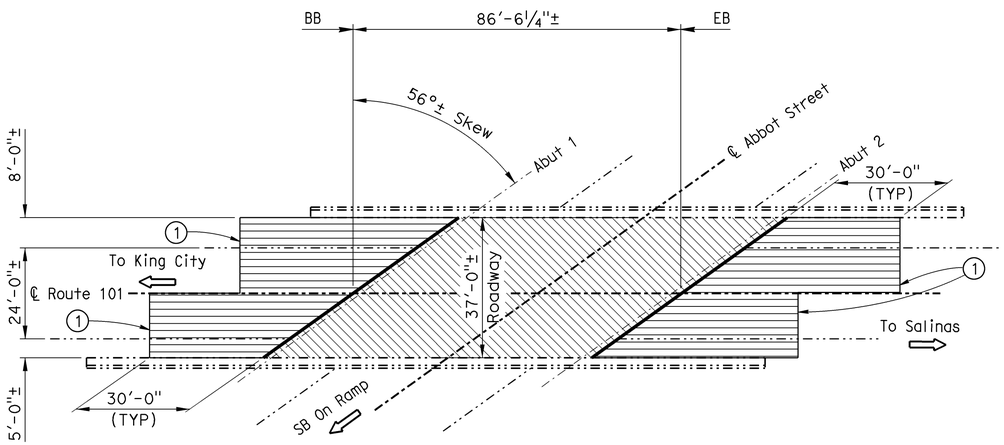
Indicates location of replace joint seal. For details, see "JOINT SEAL DETAILS" sheet.

(1) New profile grade to match existing.



NORTH GONZALES OVERCROSSING

Br No. 44-0092, MON, ROUTE 101, PM 72.61
1" = 20'



ABBOTT UNDERCROSSING

Br No. 44-0119L, MON, ROUTE 101, PM 82.47
1" = 20'

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

10-22-14 Michael J. Lee
DESIGN ENGINEER

DESIGN	BY H. DANG	CHECKED J. Radu	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY M. Hallstrom	CHECKED J. Radu	LAYOUT	BY M. HALLSTROM	CHECKED J. Radu		
QUANTITIES	BY H. DANG	CHECKED J. Radu	SPECIFICATIONS	BY E. Mansoubi	PLANS AND SPECS COMPARED E. Mansoubi		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	
	VARIOUS
POST MILE	
	VARIES

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: 0513000013 1 CONTRACT NO.: 05-1C9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES					SHEET	OF
					4	11

FILE => 05-1c9301_04gp_04.dgn

USERNAME => s115755 DATE PLOTTED => 15-JAN-2015 TIME PLOTTED => 10:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	26	32

REGISTERED CIVIL ENGINEER — 10-22-14 DATE

1-20-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — HUBERT DANG — No. C 69174 — Exp. 6-30-16 — CIVIL — STATE OF CALIFORNIA

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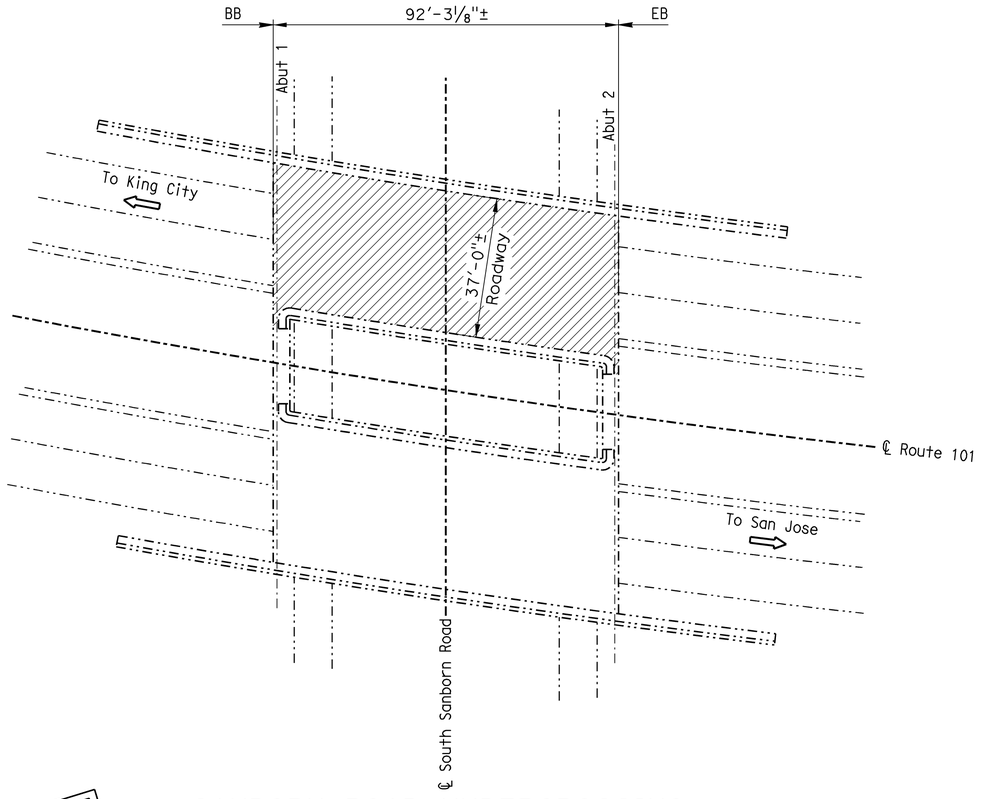


N

SANBORN ROAD UNDERCROSSING

Br No. 44-0120L, MON, ROUTE 101, PM 86.12
1" = 20'

SANBORN ROAD UNDERCROSSING — BRIDGE NO. 44-0120L

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	3,414	SQFT
TREAT BRIDGE DECK	3,414	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	38	GAL

ALISAL ROAD UNDERCROSSING — BRIDGE NO. 44-0122L

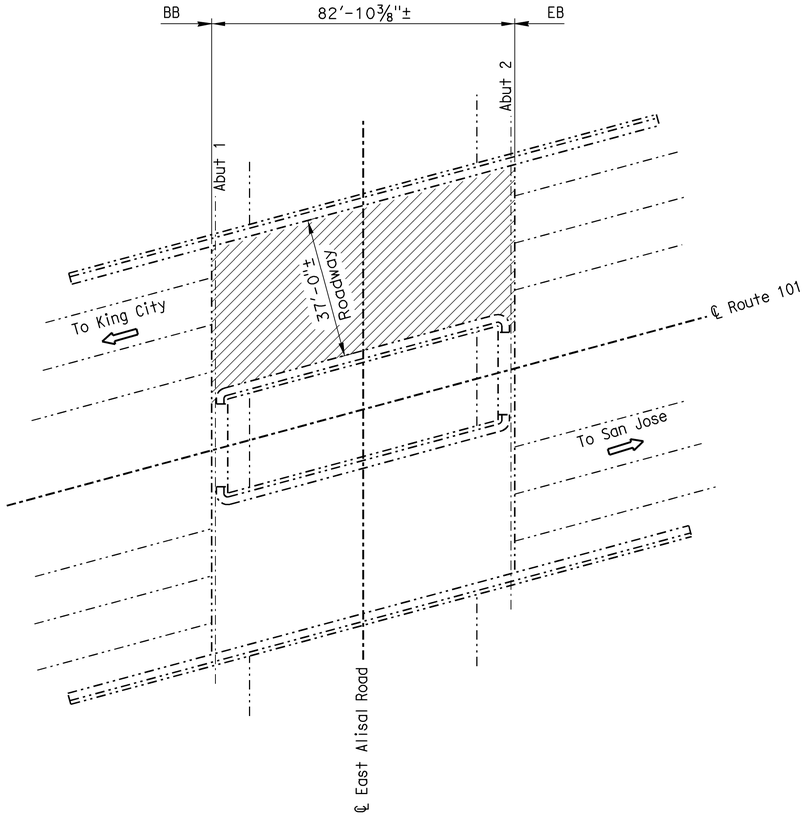
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	3,066	SQFT
TREAT BRIDGE DECK	3,066	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	34	GAL

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND: (APPLY TO THIS SHEET ONLY)

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



N

ALISAL ROAD UNDERCROSSING

Br No. 44-0122L, MON, ROUTE 101, PM 87.06
1" = 20'

10-22-14 Michael J. Lee
DESIGN ENGINEER

DESIGN	BY H. DANG	CHECKED J. Radu	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY M. Hallstrom	CHECKED J. Radu	LAYOUT	BY M. HALLSTROM	CHECKED J. Radu		
QUANTITIES	BY H. DANG	CHECKED J. Radu	SPECIFICATIONS	BY E. Mansoubi	PLANS AND SPECS COMPARED E. Mansoubi		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	
VARIOUS	
POST MILE	
VARIES	

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: 0513000013 1
CONTRACT NO.: 05-1C9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
				5	11

FILE => 05-1c9301_05gp_05.dgn

USERNAME => s115755 DATE PLOTTED => 15-JAN-2015 TIME PLOTTED => 10:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	27	32

REGISTERED CIVIL ENGINEER — 10-22-14 DATE

1-20-15
PLANS APPROVAL DATE

HUBERT DANG
No. C 69174
Exp. 6-30-16
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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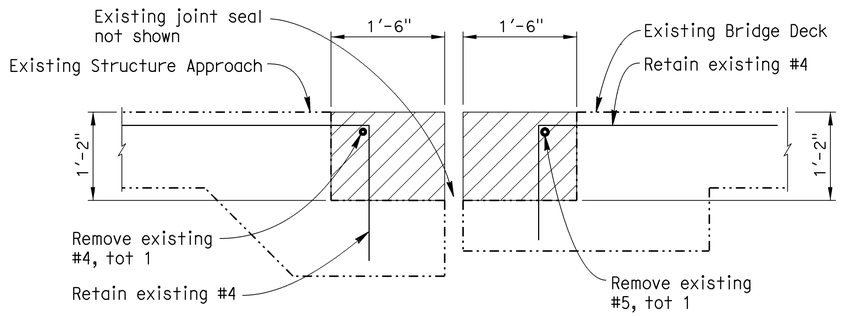
LEGEND: (APPLY TO THIS SHEET ONLY)

Indicates limits of Bridge Removal (Portion). Retain reinforcing steel (except where shown otherwise).

Indicates limits of Structural Concrete Bridge.



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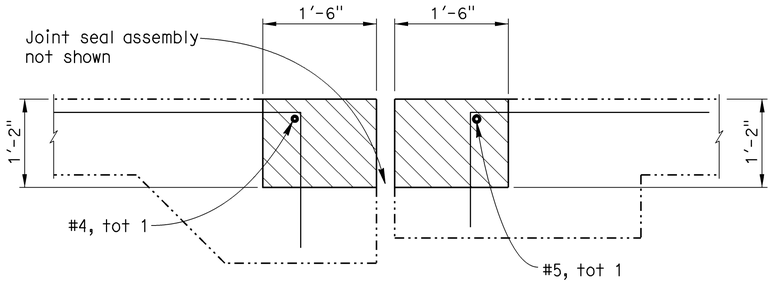

RECONSTRUCTION

SECTION A-A

Br. No. 44-0002R
NO SCALE

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 and permit design load.
REINFORCED CONCRETE:	fy = 60,000 psi f'c = 3600 psi n = 9

TEMPORARY DECK PLATE		
MOMENT DEMAND/FOOT $\left(\frac{\text{kip-ft}}{\text{ft}}\right)$	ANCHOR BOLT SHEAR/FOOT $\left(\frac{\text{kip}}{\text{ft}}\right)$	ANCHOR BOLT TENSION (Kip)
12	4.5	6.6

Plate deflection shall not exceed s/300. (s = span [FT]). Maximum anchorage spacing shall not exceed 9".

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	BY	CHECKED
DESIGN	H. DANG	J. Radu
DETAILS	M. HALLSTROM	J. Radu
QUANTITIES	H. DANG	J. Radu

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 101 BRIDGES
MISCELLANEOUS 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: 0513000013 1
CONTRACT NO.: 05-1C9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES

SHEET 6 OF 11

FILE => 05-1c9301_06misc-dets.dgn

USERNAME => s115755 DATE PLOTTED => 15-JAN-2015 TIME PLOTTED => 10:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	28	32

REGISTERED CIVIL ENGINEER — 10-22-14 DATE

1-20-15 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — HUBERT DANG No. C 69174 Exp. 6-30-16 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 EXPANSION JOINT (inches)
SAN ARDO UNDERCROSSING	44-0193R	Abut 1	BB	½	40	No	12.0
		Abut 2	EB	½	40	No	12.0
ABBOT UNDERCROSSING	44-0119L	Abut 1	BB	½	67	No	12.0
		Abut 2	EB	½	67	No	12.0
SALINAS RIVER	44-0002R	Abut 12✱	EB	6	40	No	12.0

LEGEND:
✱ = Joint Seal Assembly

The following note applies to JOINT SEAL TYPE A:

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

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.

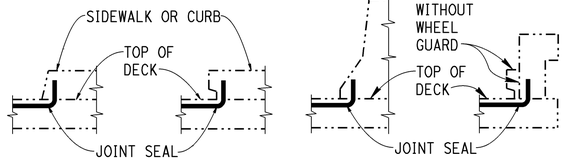
3) W1 shall be the smaller of the values determined as follows:

   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.

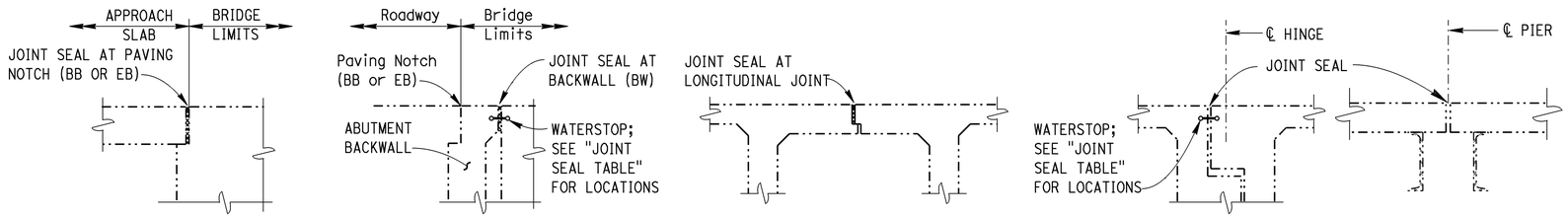
5) For details not shown see B6-21



SIDEWALK OR CURB — BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

DETAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY. FOR USE ONLY WHERE DECK JOINT MATCHES THE BARRIER RAIL JOINT.
NO SCALE



DIAPHRAGM ABUTMENT — ABUTMENT WITH BACKWALL — LONGITUDINAL JOINT — HINGE — PIER

JOINT SEAL LOCATION

NO SCALE

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY H. DANG	CHECKED J. Radu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY M. HALLSTROM	CHECKED J. Radu	
QUANTITIES	BY H. DANG	CHECKED J. Radu	

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

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: 0513000013 1 CONTRACT NO.: 05-1C9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES

SHEET 7 OF 11

FILE => 05-1c9301_07jointdeck-dets.dgn

USERNAME => s115755 DATE PLOTTED => 15-JAN-2015 TIME PLOTTED => 10:44

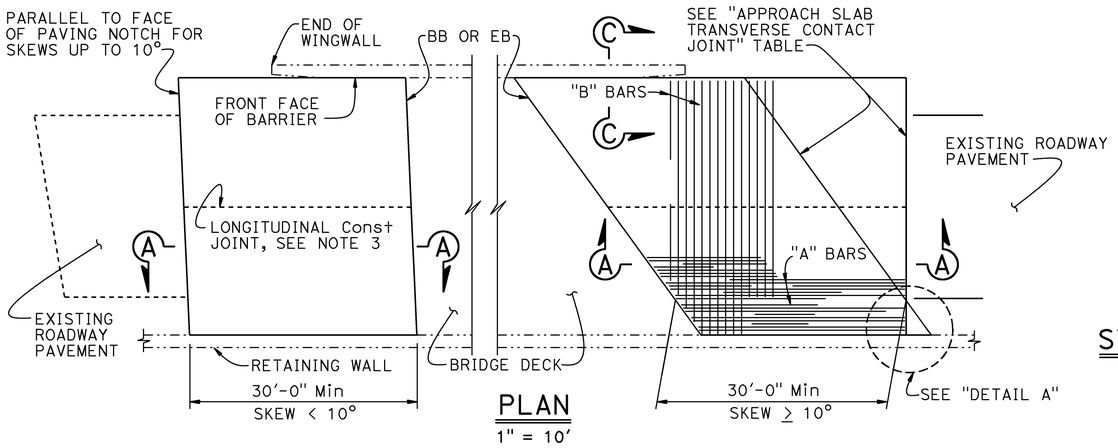
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	29	32

REGISTERED CIVIL ENGINEER — 10-22-14 DATE

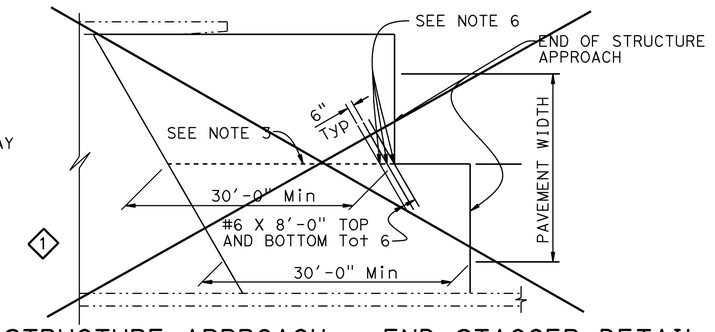
1-20-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — HUBERT DANG — No. C 69174 — Exp. 6-30-16 — CIVIL — STATE OF CALIFORNIA

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



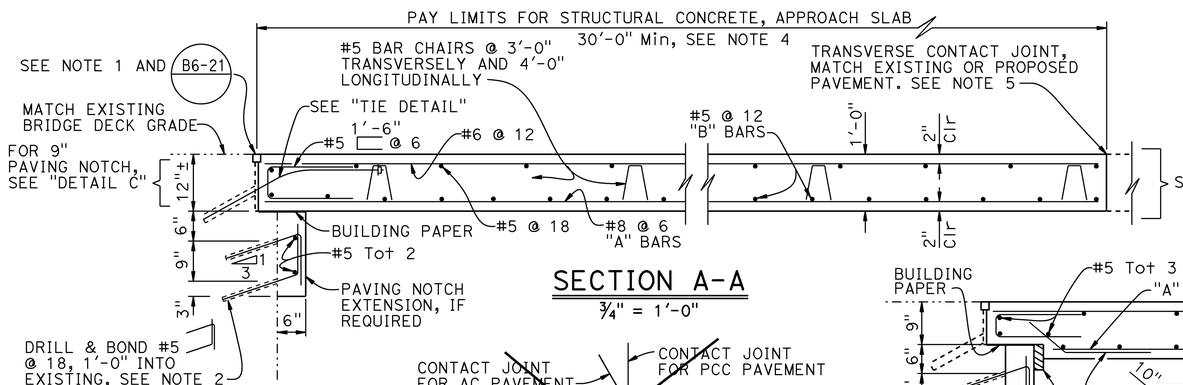
PLAN
1" = 10'



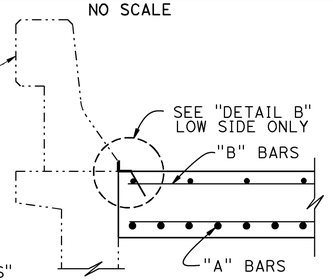
STRUCTURE APPROACH - END STAGGER DETAIL
NO SCALE

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PAVING NOTCH
10° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE

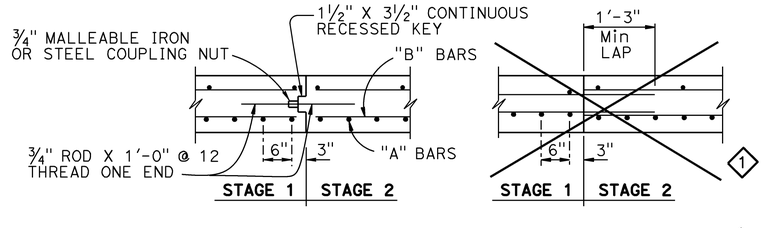
1



SECTION A-A
¾" = 1'-0"



SECTION C-C
¾" = 1'-0"



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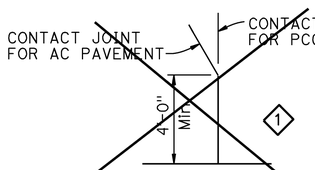
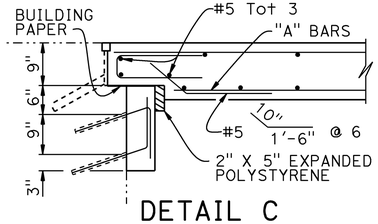
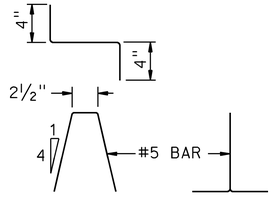


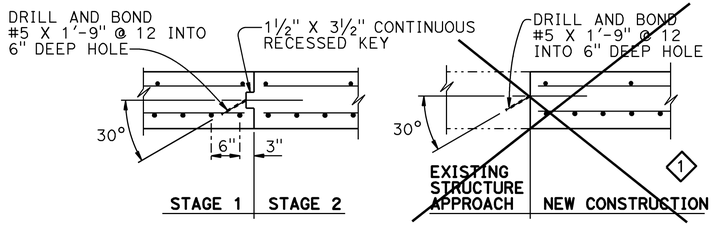
DETAIL A
No Scale



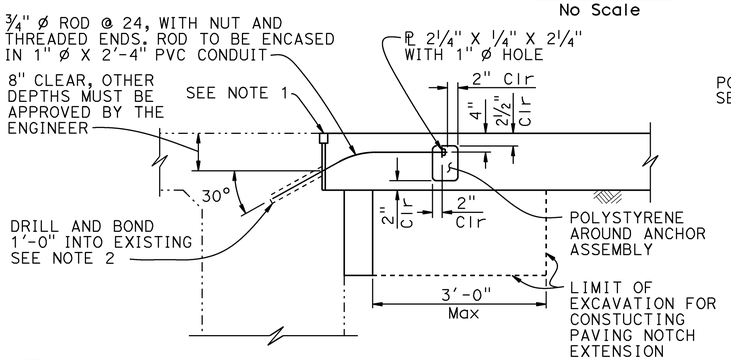
DETAIL C
¾" = 1'-0"



BAR CHAIR DETAIL
1½" = 1'-0"



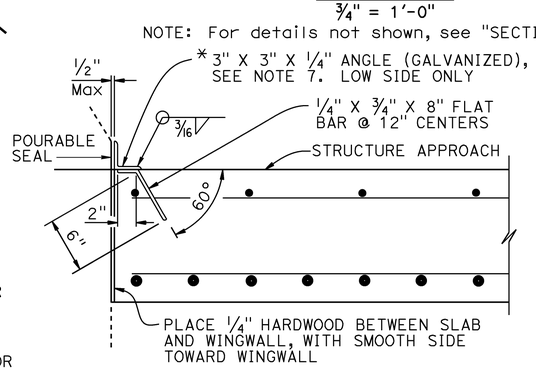
LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES
¾" = 1'-0"



TIE DETAIL
¾" = 1'-0"

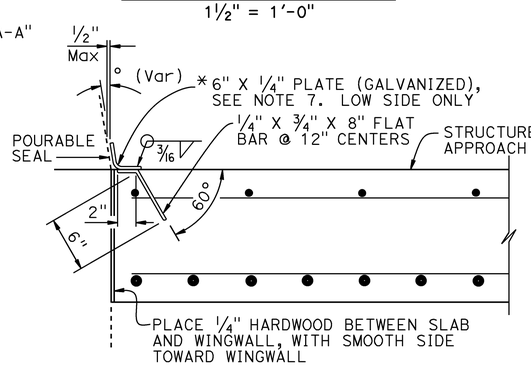
NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTE: For details not shown, see "SECTION A-A"



*(TO BE USED WITH CONCRETE BARRIER WITH VERTICAL FACE)

DETAIL B
1½" = 1'-0"



*(TO BE USED WITH CONCRETE BARRIER WITH SLOPING FACE)

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

REVISED STANDARD DRAWING

FILE NO. xs3-150

APPROVAL DATE July 2011

1 DOES NOT APPLY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE No. VARIOUS
POST MILE VARIES

ROUTE 101 BRIDGES
STRUCTURE APPROACH TYPE R(30D)

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: 0513000013 1
CONTRACT No.: 05-1C9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES						SHEET	OF
-						8	11

FILE => 05-1c9301_08xs3-150.dgn

USERNAME => s115755 DATE PLOTTED => 15-JAN-2015 TIME PLOTTED => 10:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	30	32

REGISTERED CIVIL ENGINEER — DATE 10-22-14

PLANS APPROVAL DATE 1-20-15

HUBERT DANG No. C 69174 Exp. 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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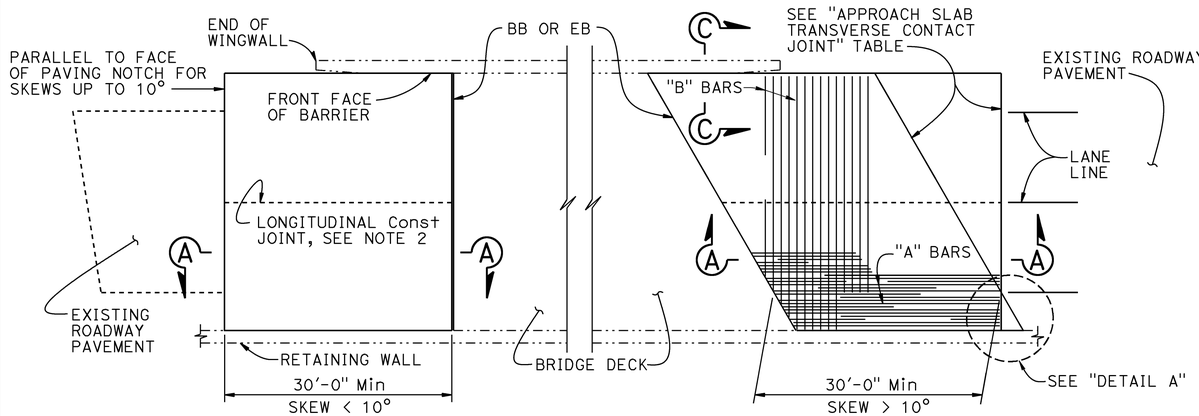
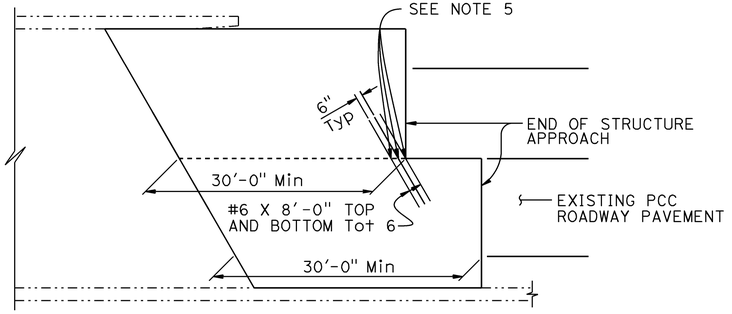
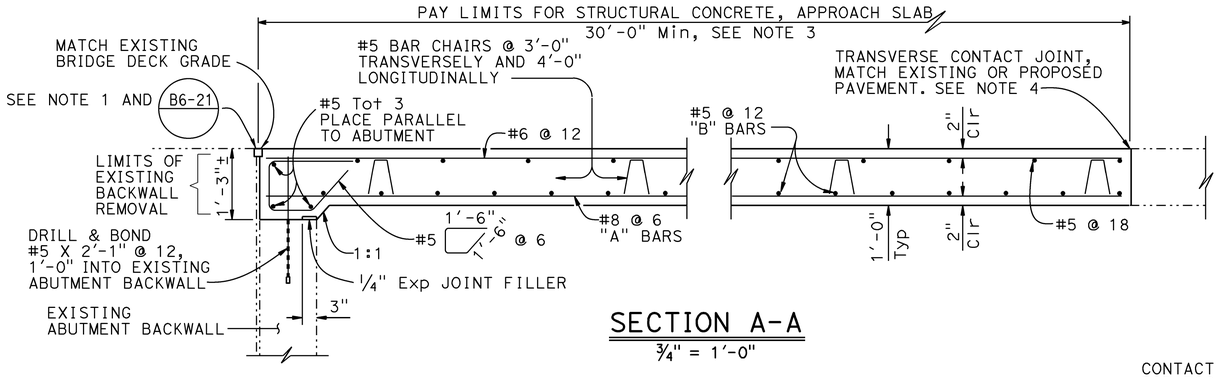


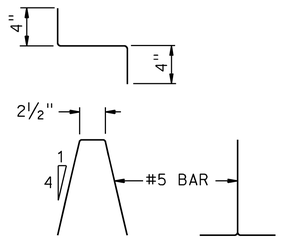
PLAN
1" = 10'



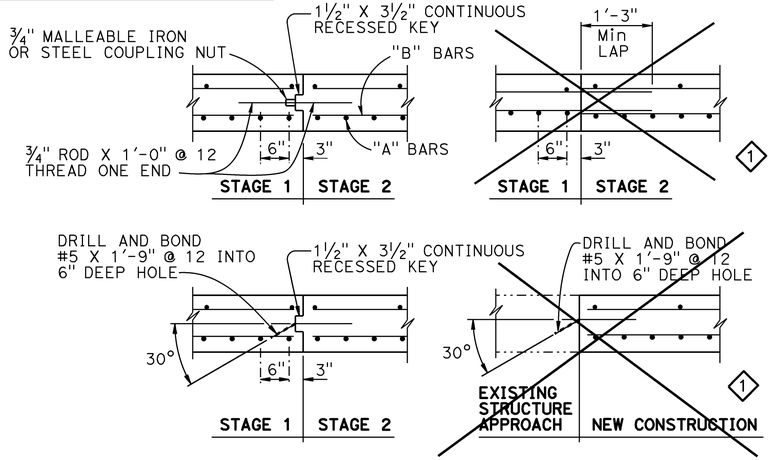
STRUCTURE APPROACH - END STAGGER DETAIL
NO SCALE



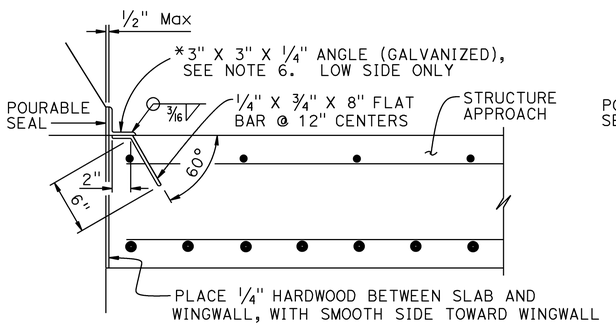
SECTION A-A
3/4" = 1'-0"



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

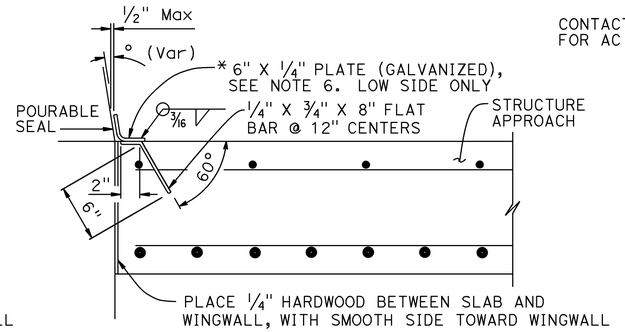


LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES
3/4" = 1'-0"

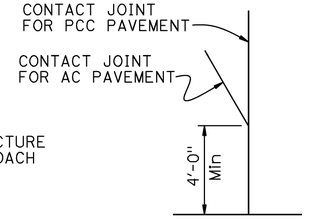


*(TO BE USED WITH CONCRETE BARRIER WITH VERTICAL FACE)

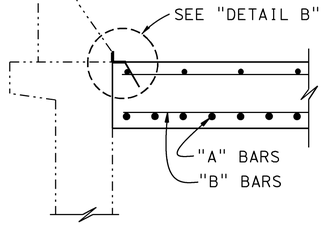
DETAIL B
1 1/2" = 1'-0"



*(TO BE USED WITH CONCRETE BARRIER WITH SLOPING FACE)



DETAIL A
No Scale



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

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
~~< 10°~~	~~PARALLEL TO FACE OF PN~~	~~PARALLEL TO FACE OF PN~~
~~10° - 45°~~	~~PARALLEL TO FACE OF PN USE "DETAIL A"~~	~~STAGGER LINES 24" TO 36" APART~~
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE

NOTES:

1. Sealed joint,for MR see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
2. Longitudinal construction joints, when permitted by Engineer, shall be located on lane lines
3. Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint
4. For transverse contact joint with new PCC paving, refer to Standard Plan P10
5. Couplers are required for stage construction
6. End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable

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

STANDARD DRAWING

FILE NO. xs3-130

APPROVAL DATE July 2011

1 DOES NOT APPLY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 101 BRIDGES
STRUCTURE APPROACH TYPE R(30S)

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0513000013 1
CONTRACT NO.: 05-1C9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES

SHEET 9 OF 11

FILE => 05-1c9301_09xs3-130.dgn

USERNAME => s115755 DATE PLOTTED => 15-JAN-2015 TIME PLOTTED => 10:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	31	32

REGISTERED CIVIL ENGINEER — DATE 10-22-14

PLANS APPROVAL DATE 1-20-15

REGISTERED PROFESSIONAL ENGINEER — HUBERT DANG — No. C 69174 — Exp. 6-30-16 — CIVIL — STATE OF CALIFORNIA

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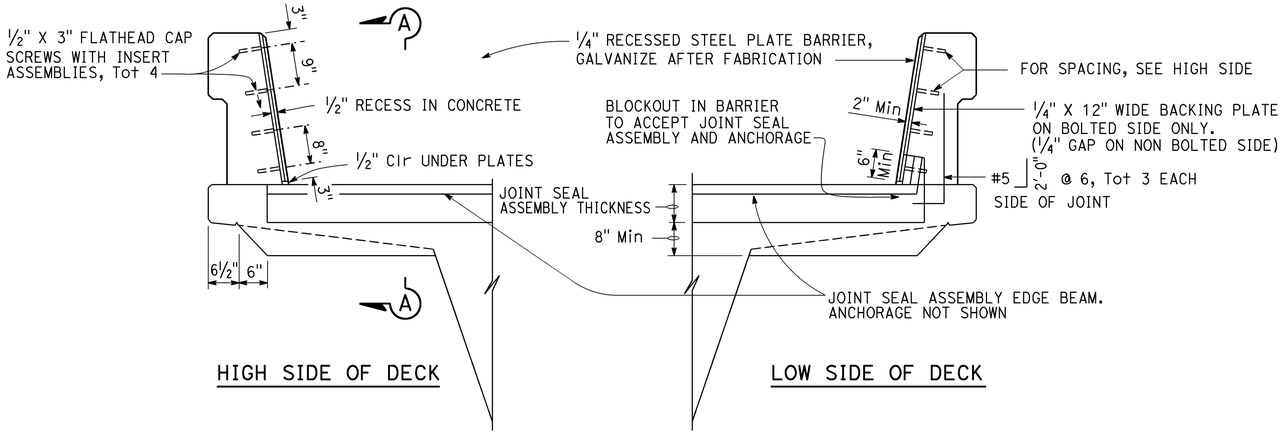
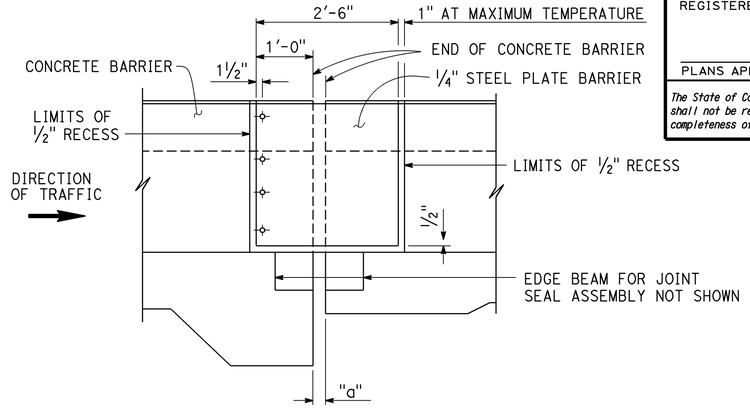


SEAL INSTALLATION

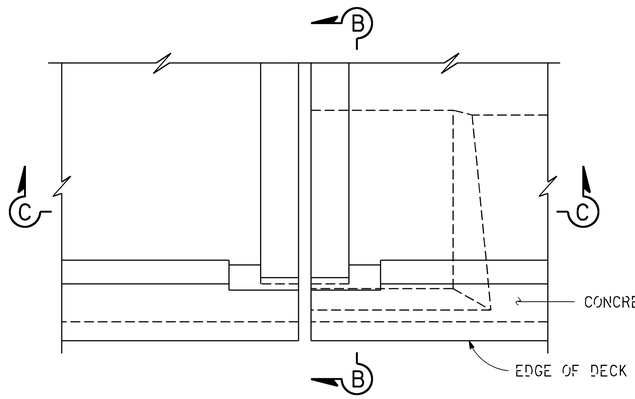
¾" = 1'-0"



ELEVATION A-A

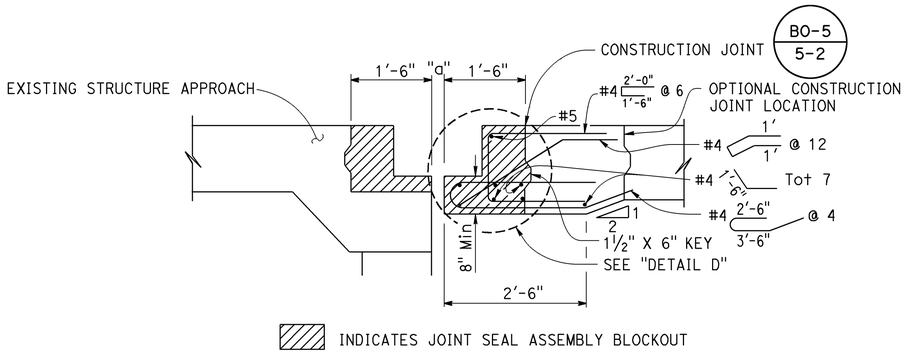
¾ = 1'-0"

JOINT INFORMATION		"a" DIMENSIONS			
LOCATION	MOVEMENT RATING (MR)	SKEW	WINTER	SPRING & FALL	SUMMER
ABUT 12	6"	0°	3¼"	1¾"	2½"



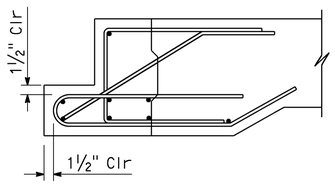
PLAN - DECK JOINT

¾" = 1'-0"



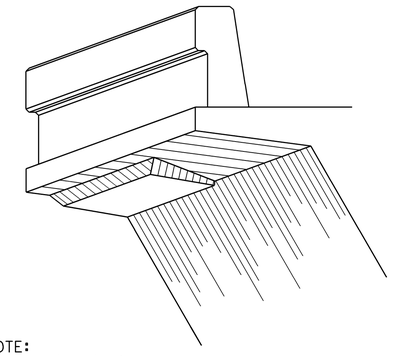
SECTION C-C

¾" = 1'-0"



DETAIL D

1" = 1'-0"



NOTE:
Abutment not shown

DECK OVERHANG AT ABUTMENT

NO SCALE

DESIGN	BY H. DANG	CHECKED J. Radu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. VARIOUS	ROUTE 101 BRIDGES	
DETAILS	BY M. HALLSTROM	CHECKED J. Radu			POST MILE VARIES	SALINAS RIVER BRIDGE	
QUANTITIES	BY H. DANG	CHECKED J. Radu				JOINT SEAL ASSEMBLY AT ABUTMENT	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0513000013 1 CONTRACT NO.: 05-1C9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES

SHEET 10 OF 11

FILE => 05-1c9301_10xs8-030.dgn

USERNAME => s115755 DATE PLOTTED => 15-JAN-2015 TIME PLOTTED => 10:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	101	R21.9/87.0	32	32

REGISTERED CIVIL ENGINEER — 10-22-14 DATE

1-20-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUBERT DANG
No. C 69174
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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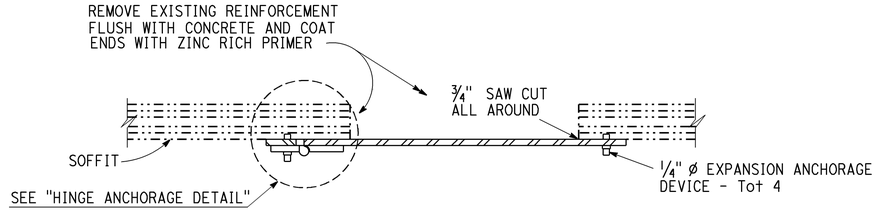
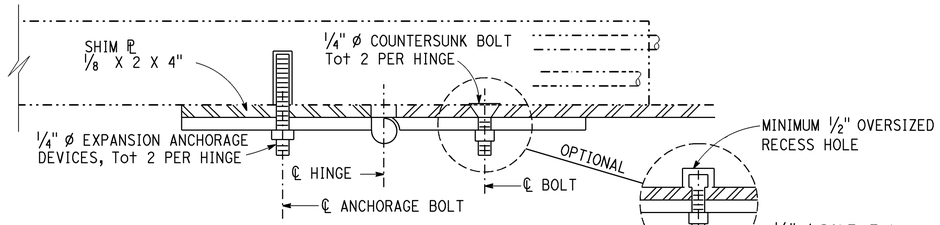
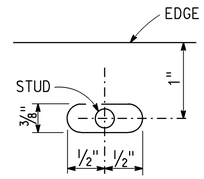


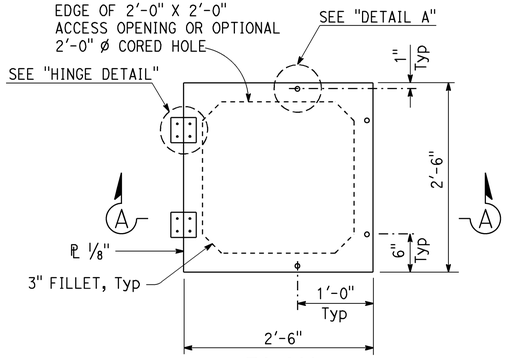
SECTION A-A



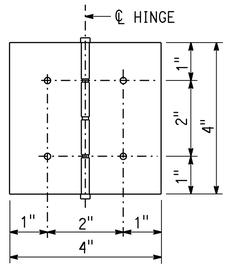
HINGE ANCHORAGE DETAIL



DETAIL A



PLAN



HINGE DETAIL

NOTES:

1. Non-removable pin in hinge
2. Hinge assembly to be galvanized, brass or stainless steel
3. Use thread locking system for all hinge nuts
4. Hinge assembly to be minimum 1/8" Thick

SOFFIT ACCESS DOOR ASSEMBLY

NOTE: SOFFIT ACCESS DOOR OPENING DIRECTION TO BE DETERMINED BY THE ENGINEER

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	BY	CHECKED
DESIGN	H. DANG	J. Radu
DETAILS	M. HALLSTROM	J. Radu
QUANTITIES	H. DANG	J. Radu

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 101 BRIDGES

SOFFIT OPENINGS 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: 0513000013 1 CONTRACT NO.: 05-1C9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES

SHEET 11 OF 11

FILE => 05-1c9301_11soffit-openings.dgn

USERNAME => s115755 DATE PLOTTED => 15-JAN-2015 TIME PLOTTED => 10:45