

INDEX OF PLANS

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STRUCTURE PLANS

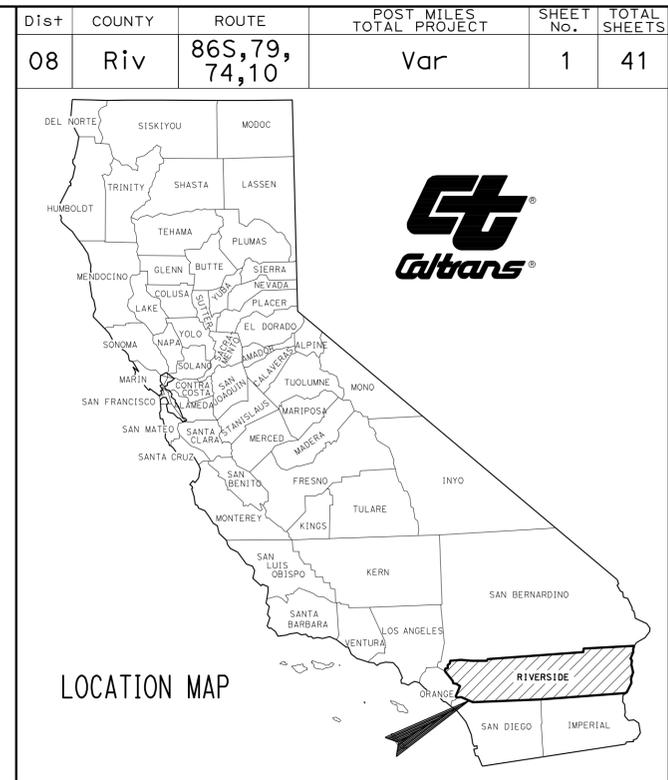
32-41 ROUTE 10 BRIDGES

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN RIVERSIDE COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2010

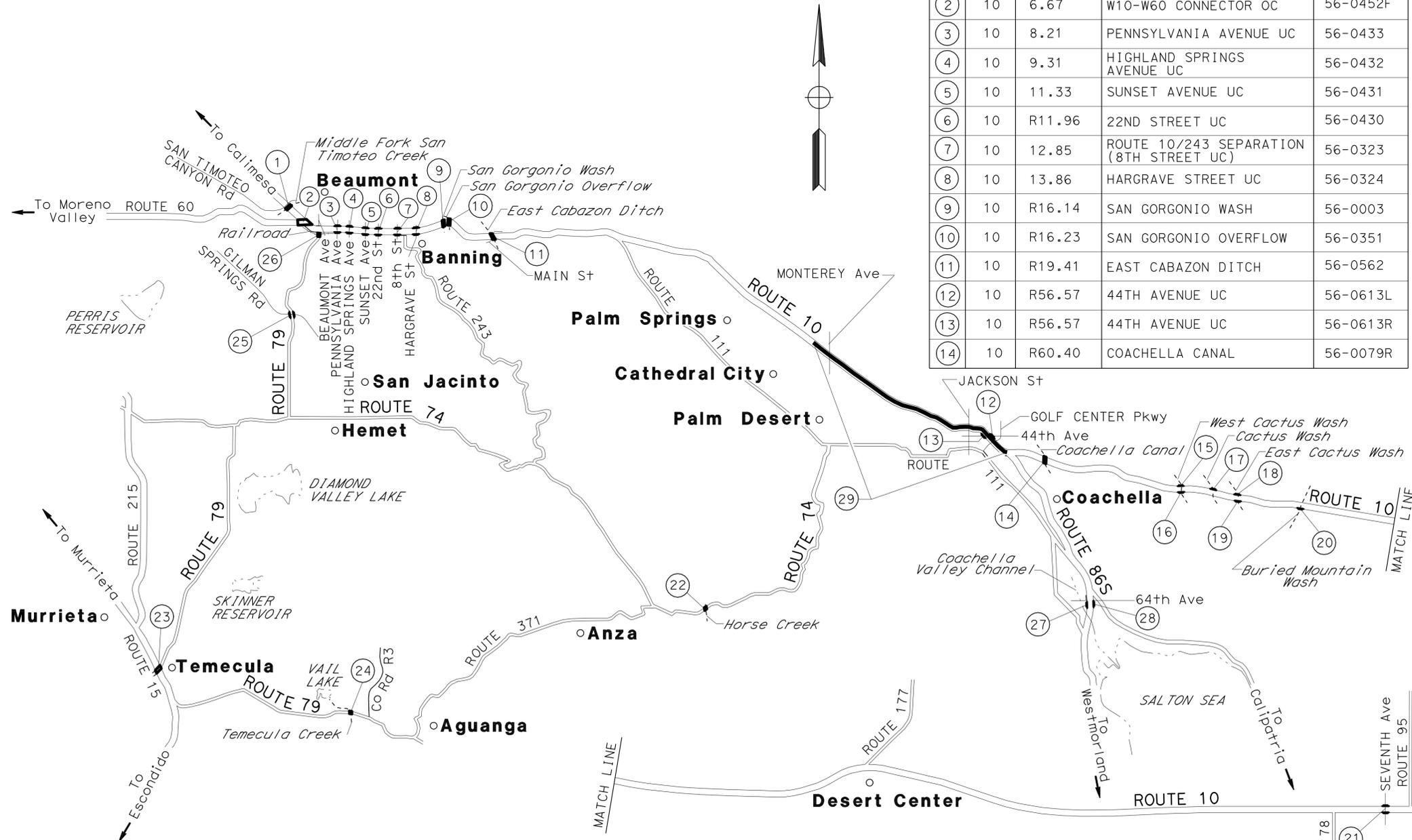


LOCATIONS OF CONSTRUCTION

Loc No.	ROUTE	POST MILE	STRUCTURE NAME	STRUCTURE NUMBER
1	10	R5.71	MIDDLE FORK SAN TIMOTEO CREEK	56-0215L
2	10	6.67	W10-W60 CONNECTOR OC	56-0452F
3	10	8.21	PENNSYLVANIA AVENUE UC	56-0433
4	10	9.31	HIGHLAND SPRINGS AVENUE UC	56-0432
5	10	11.33	SUNSET AVENUE UC	56-0431
6	10	R11.96	22ND STREET UC	56-0430
7	10	12.85	ROUTE 10/243 SEPARATION (8TH STREET UC)	56-0323
8	10	13.86	HARGRAVE STREET UC	56-0324
9	10	R16.14	SAN GORGONIO WASH	56-0003
10	10	R16.23	SAN GORGONIO OVERFLOW	56-0351
11	10	R19.41	EAST CABAZON DITCH	56-0562
12	10	R56.57	44TH AVENUE UC	56-0613L
13	10	R56.57	44TH AVENUE UC	56-0613R
14	10	R60.40	COACHELLA CANAL	56-0079R

LOCATIONS OF CONSTRUCTION

Loc No.	ROUTE	POST MILE	STRUCTURE NAME	STRUCTURE NUMBER
15	10	R72.93	WEST CACTUS WASH	56-0460L
16	10	R72.95	WEST CACTUS WASH	56-0460R
17	10	R73.18	CACTUS WASH	56-0461L
18	10	R73.45	EAST CACTUS WASH	56-0462L
19	10	R73.47	EAST CACTUS WASH	56-0462R
20	10	R78.54	BURIED MOUNTAIN WASH	56-0212R
21	10	R153.16	SEVENTH AVENUE UC	56-0597L
22	74	75.66	HORSE CREEK	56-0185
23	79	R2.28	WINCHESTER ROAD SEPARATION	56-0656
24	79	7.07	TEMECULA CREEK	56-0188
25	79	M33.78	GILMAN SPRINGS ROAD UC	56-0782
26	79	40.33	CENTRAL BEAUMONT OH	56-0561
27	86S	R11.94	CVWD PIPELINE UC	56-0780L
28	86S	R11.96	CVWD PIPELINE UC	56-0780R
No.	ROUTE	POST MILE	DIRECTION	
29	10	44.0 TO R57.8	EB/WB	



NO SCALE

PROJECT MANAGER
CATALINO PINING III

DESIGN ENGINEER
KEVIN H. CHEN

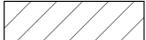
1-28-13
DATE
PROJECT ENGINEER
REGISTERED CIVIL ENGINEER
KEVIN H. CHEN
No. 70017
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

March 18, 2013
PLANS APPROVAL DATE

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

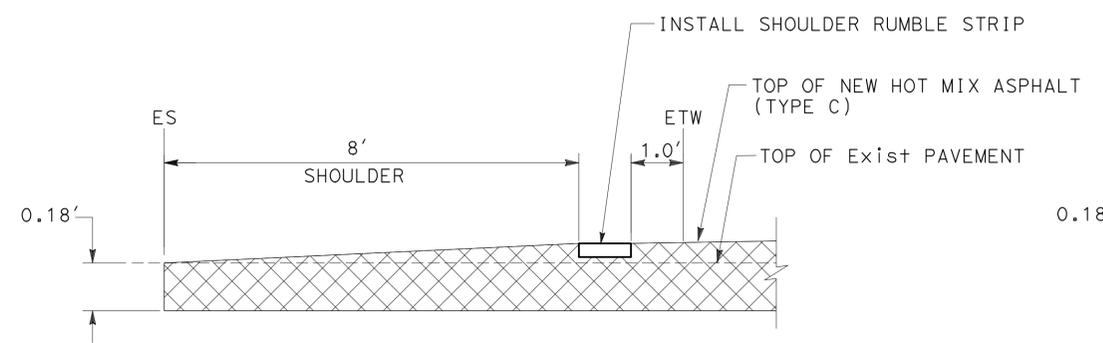
CONTRACT No. **08-OR6404**
PROJECT ID **0812000133**

LEGEND:

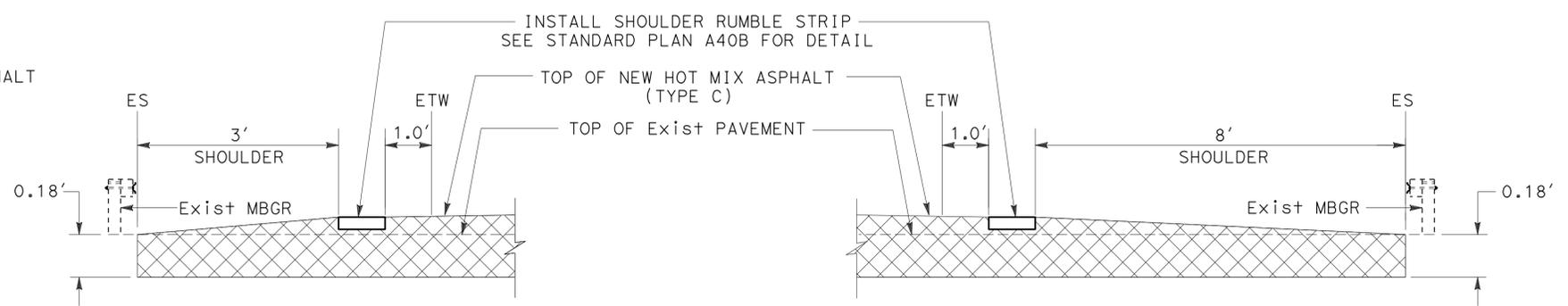
-  LIMITS OF WORK
-  COLD PLANE ASPHALT CONCRETE PAVEMENT, AND PLACE HOT MIX ASPHALT (TYPE C)
-  INSTALL SHOULDER RUMBLE STRIP (AC GROUND-IN INDENTATIONS) SEE STANDARD PLAN A40B FOR DETAIL

NOTES:

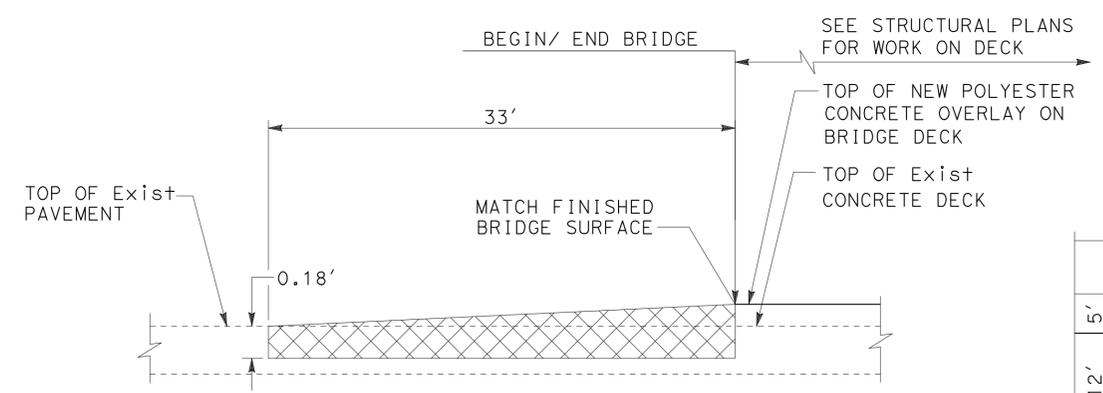
1. SHOULDER RUMBLE STRIP LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR HOT MIX ASPHALT PAVEMENT CONFORM LOCATIONS, SEE TABLE BELOW.



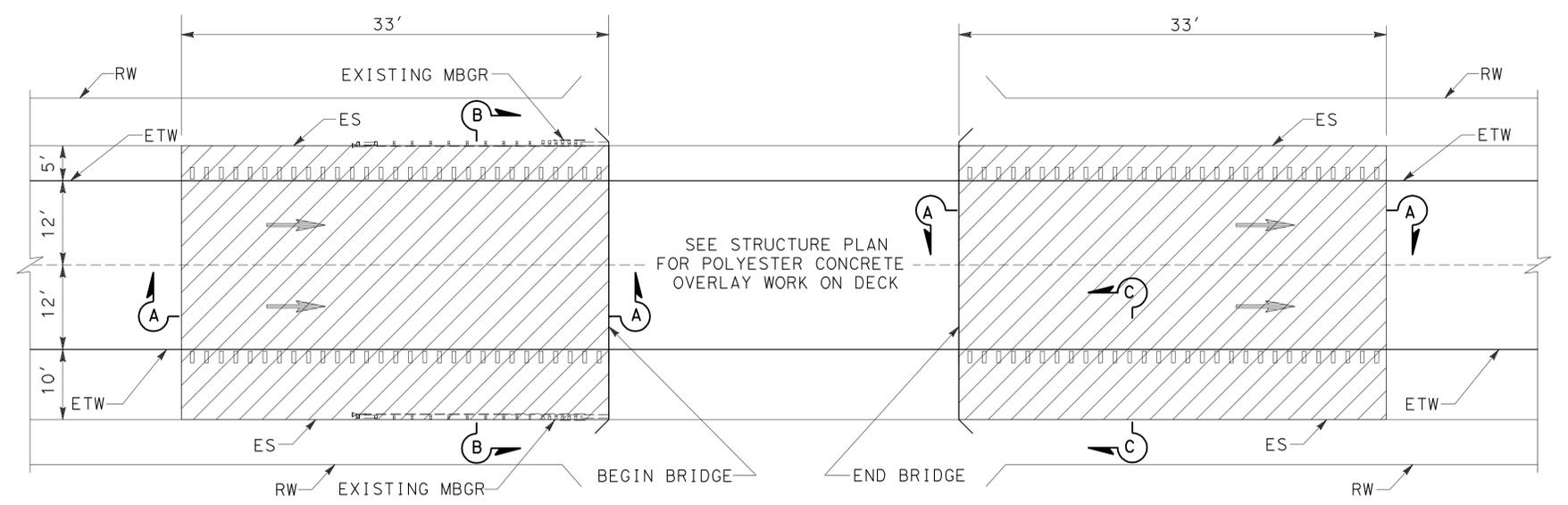
SECTION C-C
PAVEMENT CONFORM AT SHOULDER (TYPICAL)



SECTION B-B
PAVEMENT CONFORM AT SHOULDERS WITH MBGR (TYPICAL)



SECTION A-A
PAVEMENT CONFORM AT BEGIN AND END OF BRIDGES (TYPICAL)



LIMITS OF WORK FOR HMA PAVEMENT CONFORM BEFORE AND AFTER BRIDGES (TYPICAL)
(FOR LOCATIONS SEE TABLE)

PAVEMENT CONFORM LOCATIONS

Loc No.	ROUTE	POST MILE	DIRECTION	STRUCTURE NAME	STRUCTURE NUMBER
16	10	R72.93	EB	WEST CACTUS WASH	56-0460R
17	10	R73.18	WB	CACTUS WASH	56-0461L
18	10	R73.45	WB	EAST CACTUS WASH	56-0462L
19	10	R73.45	EB	EAST CACTUS WASH	56-0462R
20	10	R78.54	EB	BURIED MOUNTAIN WASH	56-0212R

CONSTRUCTION DETAILS
NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: KUAN H. CHEN
 KEVIN H. CHEN
 HENRY LEE
 REVISIONS: KEVIN H. CHEN, HENRY LEE, KUAN H. CHEN
 REVISIONS: KEVIN H. CHEN, HENRY LEE, KUAN H. CHEN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	3	41

REGISTERED CIVIL ENGINEER	DATE	1-28-13
PLANS APPROVAL DATE		3-18-13

REGISTERED PROFESSIONAL ENGINEER	STATE OF CALIFORNIA
KEVIN H. CHEN	No. 70017
	Exp. 9-30-14
	CIVIL

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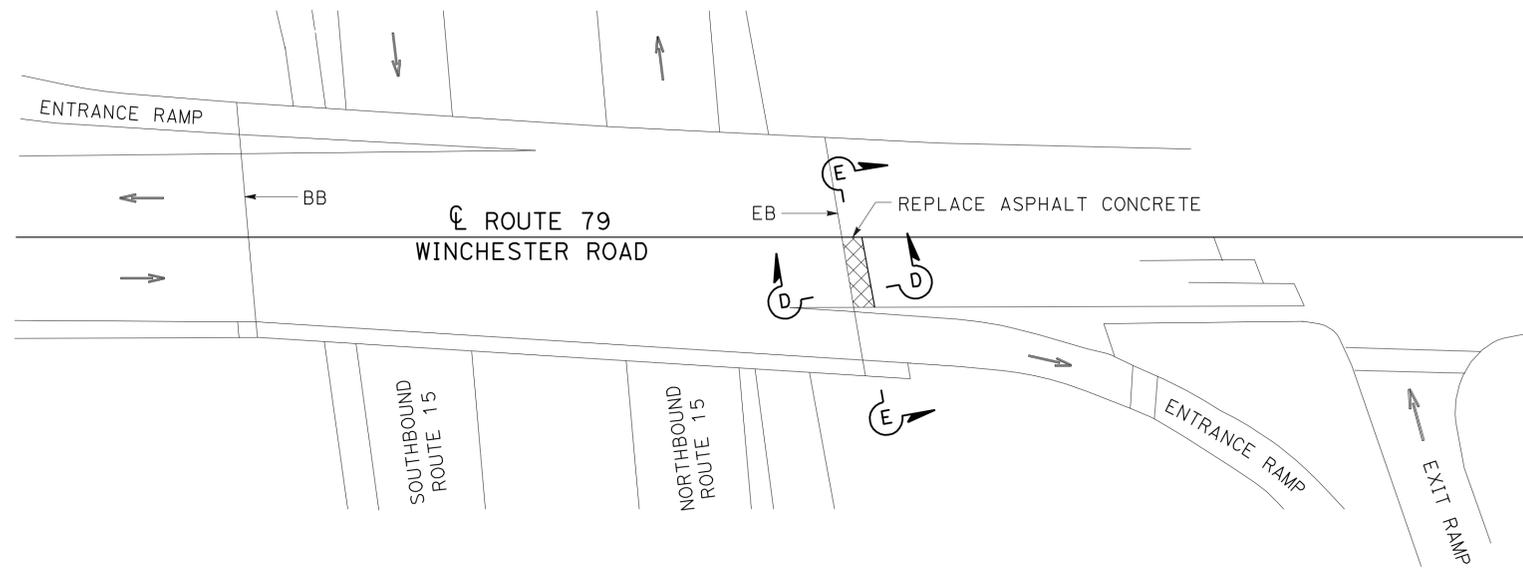
LEGEND:



REPLACE ASPHALT CONCRETE

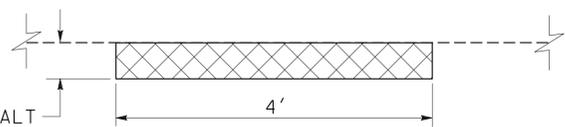
NOTE:

- EXACT LOCATION AND DIMENSION OF REPLACEMENT TO BE DETERMINED BY THE ENGINEER.

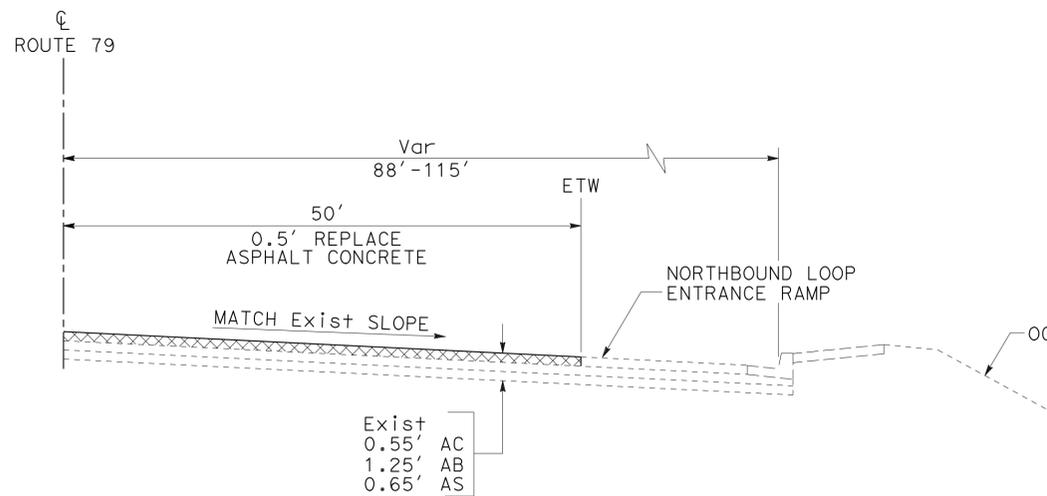


PLAN VIEW

ROUTE 79
WINCHESTER ROAD NORTHBOUND
PM R2.31



SECTION D-D



SECTION E-E

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
Caltrans MAINTENANCE DESIGN	KUAN H. CHEN	KEVIN H. CHEN	HENRY LEE
		CHECKED BY	DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	4	41

REGISTERED CIVIL ENGINEER	DATE	1-28-13
PLANS APPROVAL DATE		3-18-13

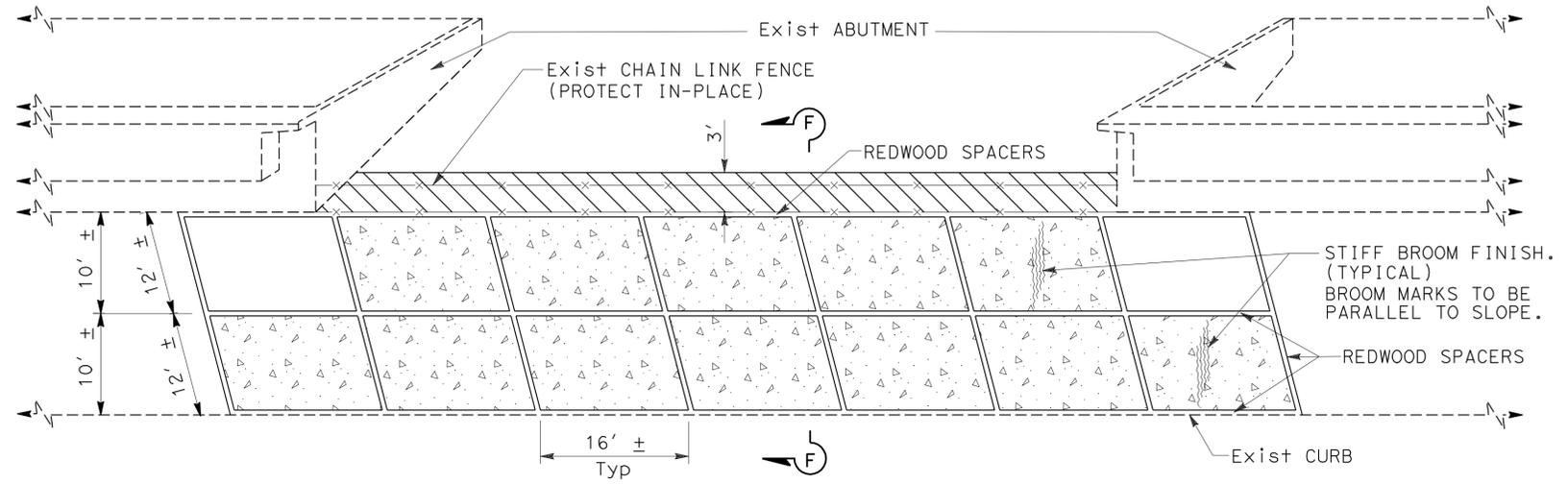
REGISTERED PROFESSIONAL ENGINEER	KEVIN H. CHEN
No.	70017
Exp.	9-30-14
CIVIL	

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

LEGEND:

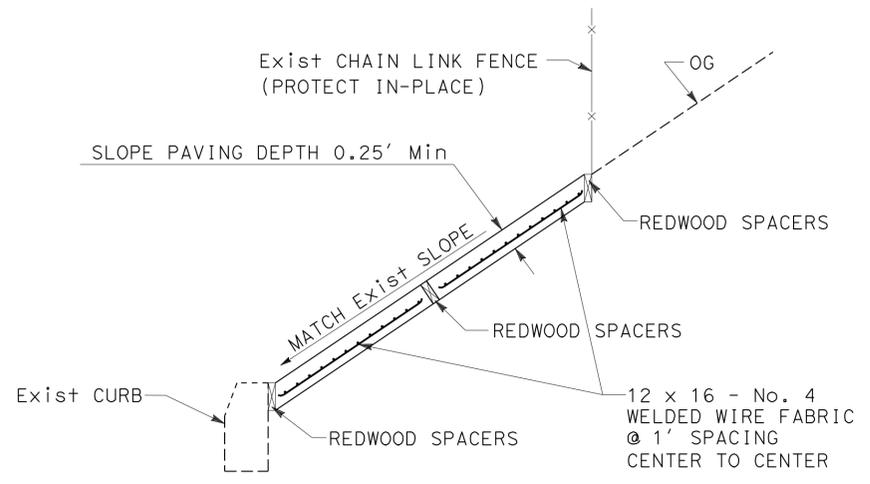
	SLOPE PAVING
	CLEARING AND GRUBBING
	IMPORTED BORROW

- NOTES:**
- ① HMA OVERSIDE DRAINS (SEE STANDARD PLAN D87D FOR DETAIL)
 - ② HOT MIX ASPHALT DIKE (TYPE F)
 - ③ RECONSTRUCT OVERSIDE DRAIN

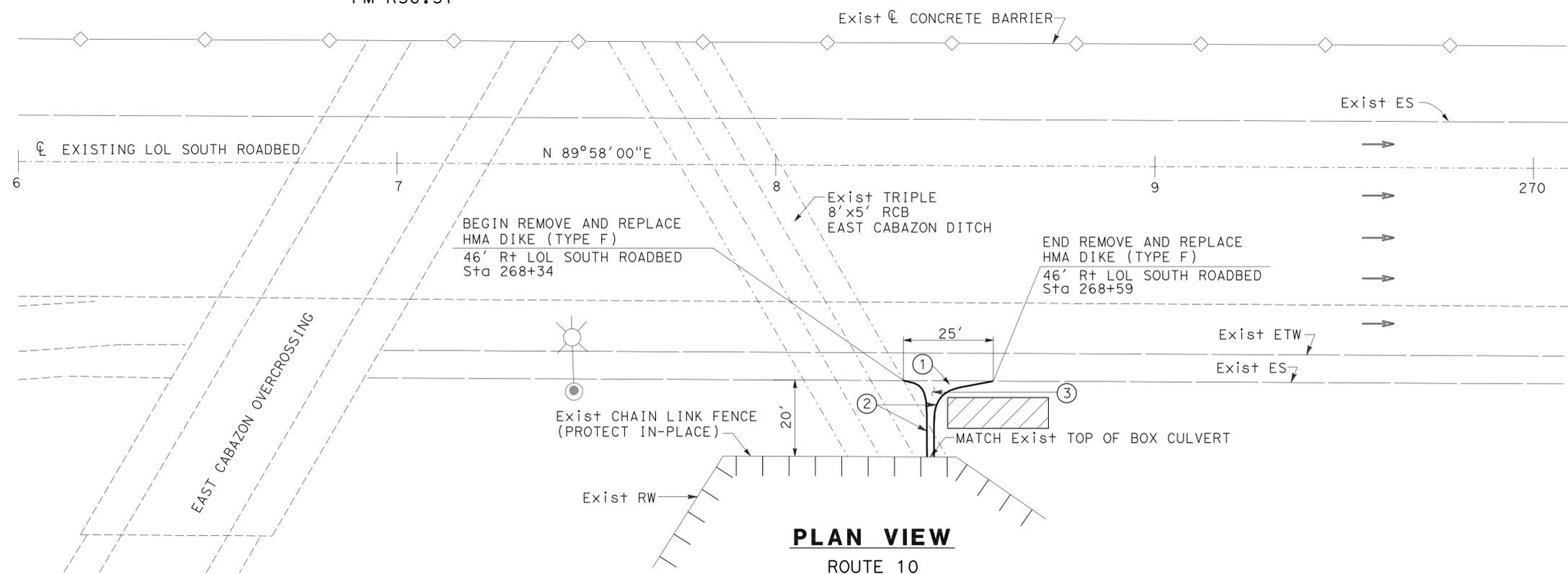


SLOPE PAVING DETAILS

ROUTE 10
NORTH SIDE AND SOUTH SIDE SLOPES OF 44th AVENUE
PM R56.57



**SECTION F-F
(TYPICAL)**



PLAN VIEW

ROUTE 10
EAST CABAZON DITCH
PM R19.41

CONSTRUCTION DETAILS
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR
KUAN H. CHEN

CALCULATED/DESIGNED BY
CHECKED BY

KEVIN H. CHEN
HENRY LEE

REVISED BY
DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	5	41

<i>Daryush Nami</i> 1-28-13	
REGISTERED CIVIL ENGINEER	DATE
3-18-13	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER DARYUSH NAMI No. 78890 Exp. 3-31-14 CIVIL STATE OF CALIFORNIA	
--	--

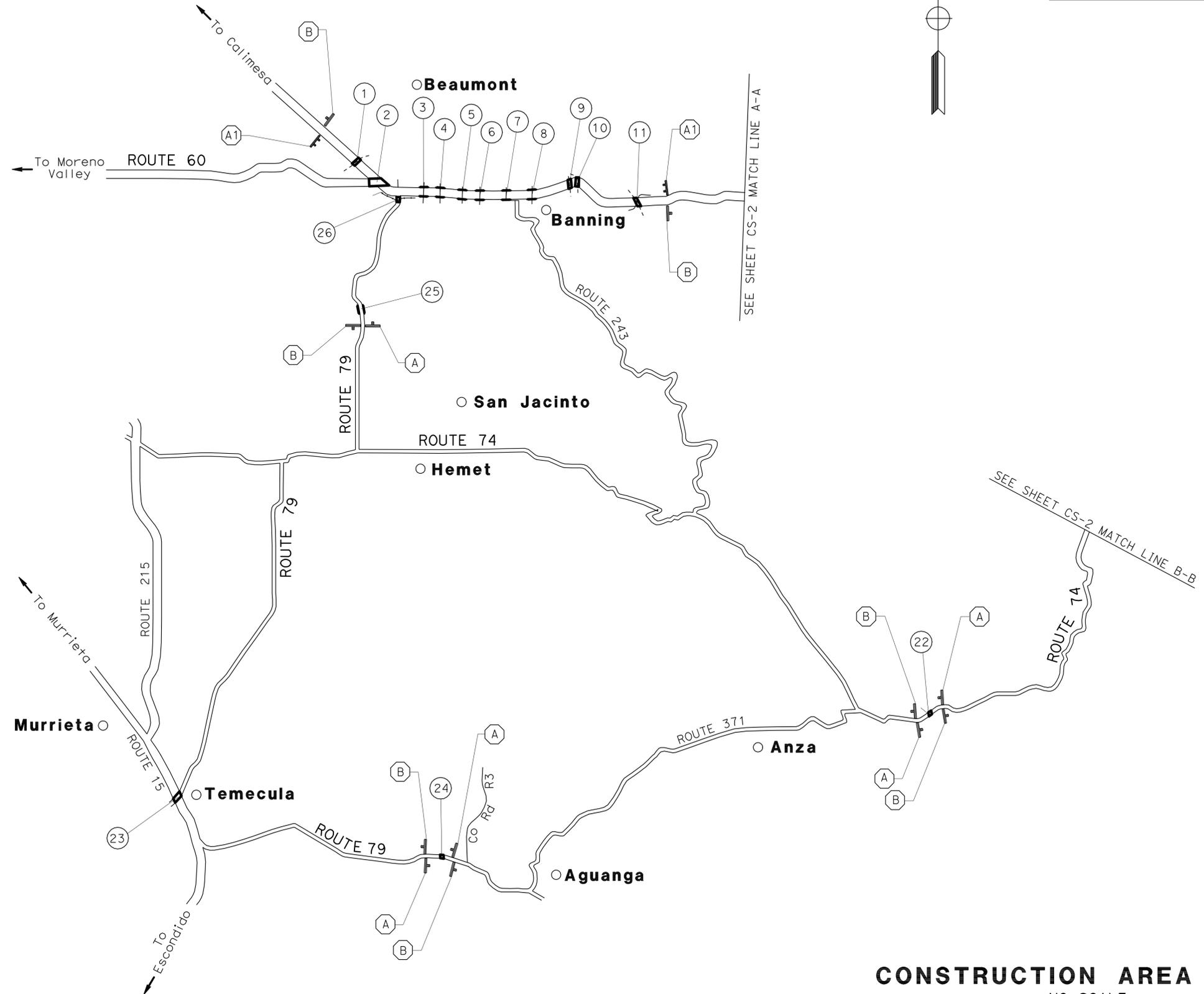
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS OF THE CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. FOR ALL LOCATIONS LISTED BELOW REFER TO STANDARD PLANS T10, T11, T12, T13, T14, T15, AND T16 FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENT.
3. REFER TO STANDARD PLAN T10A FOR LANE CLOSURES AT ENTRANCE AND EXIT RAMP, AND SHOULDER CLOSURE ONLY.

LEGEND:

- ⊥ CONSTRUCTION AREA SIGN (ONE POST)
- ⊥ CONSTRUCTION AREA SIGN (TWO POST)
- (X) CONSTRUCTION AREA SIGN LETTER
- (X) LOCATION NUMBER



CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

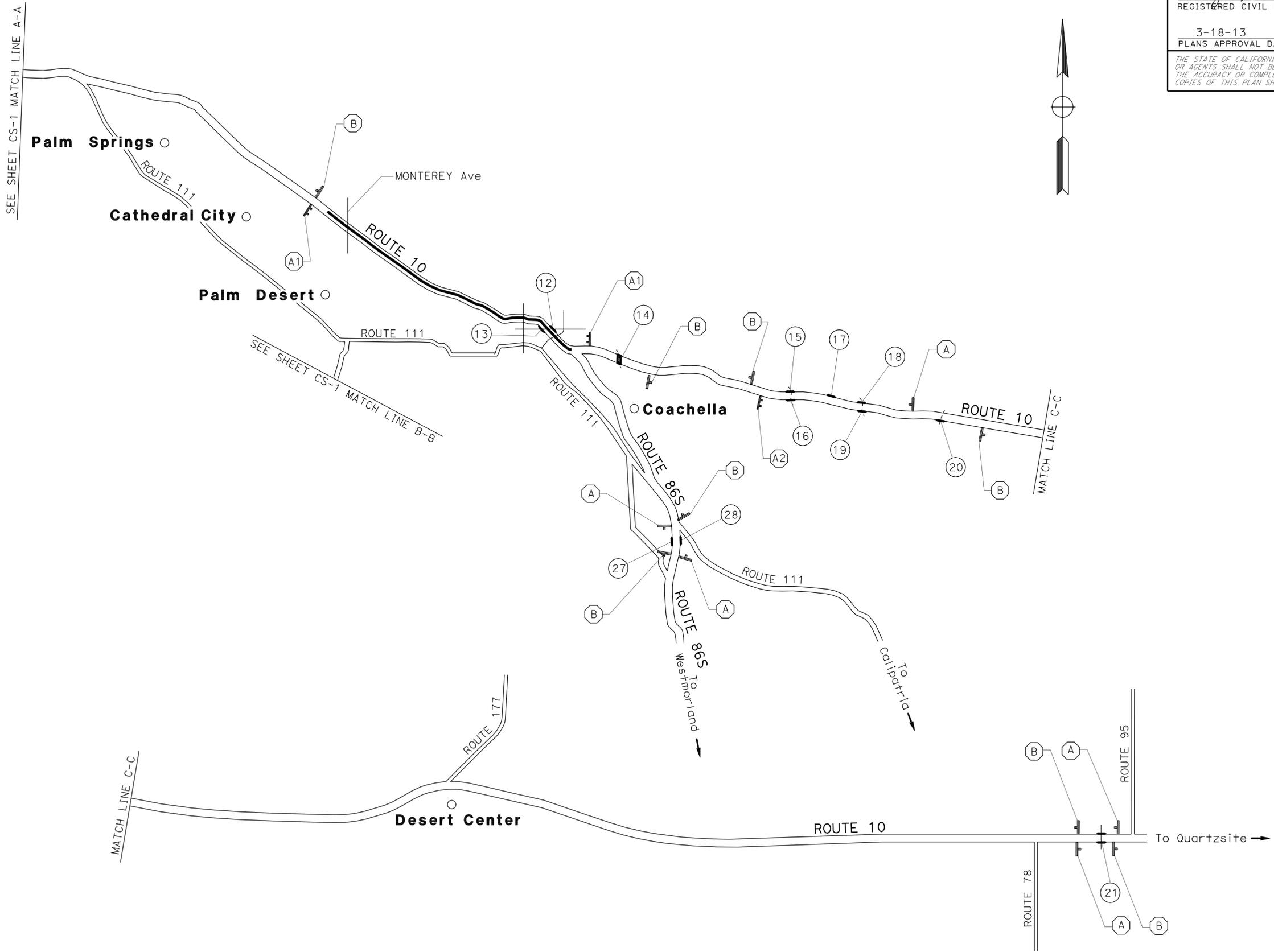
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans TRAFFIC DESIGN	BILL WASSER	DARYUSH NAMI	TRAN HOANG
		CALCULATED/DESIGNED BY	CHECKED BY

LAST REVISION DATE PLOTTED => 19-MAR-2013
01-28-13 TIME PLOTTED => 06:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	6	41
<i>Daryush Nami</i> REGISTERED CIVIL ENGINEER			1-28-13 DATE		
3-18-13 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	DARYUSH NAMI	REVISED BY	
Caltrans TRAFFIC DESIGN	BILL WASSER	CHECKED BY	TRAN HOANG	DATE	



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

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION DATE PLOTTED => 19-MAR-2013 TIME PLOTTED => 06:01

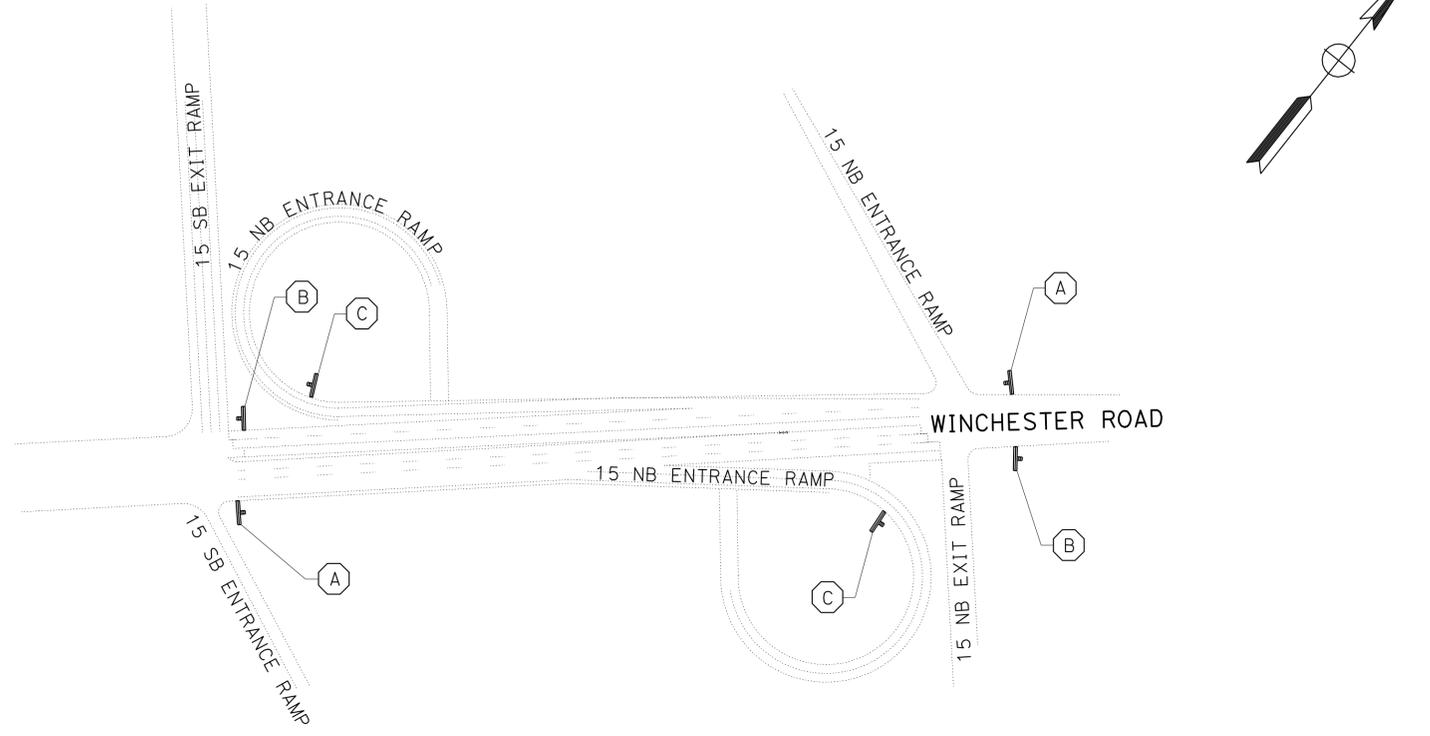
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	7	41

Daryush Nami 1-28-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

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DARYUSH NAMI
No. 78890
Exp. 3-31-14
CIVIL
STATE OF CALIFORNIA



**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS
LOCATION 23
(WINCHESTER ROAD SEPARATION)**

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1	C23(CA)	48" X 48"	ROAD WORK AHEAD	1 - 6" X 6"	12
A1	G20-1a	C11(CA)	90" X 48"	ROAD CONSTRUCTION NEXT 14 MILES	2 - 6" X 6"	4
A2	G20-1a	C11(CA)	90" X 48"	ROAD CONSTRUCTION NEXT 6 MILES	2 - 6" X 6"	1
B	G20-2a	C14(CA)	48" X 24"	END ROAD WORK	1 - 4" X 6"	17
C		SC6-4(CA)	48" X 60"	RAMP CLOSED/ DATE, TIME	1 - 6" X 6"	2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR
BILL WASSER

CALCULATED/DESIGNED BY
DARYUSH NAMI

CHECKED BY
TRAN HOANG

REVISOR BY
DARYUSH NAMI

DATE REVISOR
1-28-13

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
NO SCALE **CS-3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	8	41

Daryush Nami		1-28-13
REGISTERED CIVIL ENGINEER	DATE	
3-18-13		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER	DARYUSH NAMI
No. 78890	
Exp. 3-31-14	
CIVIL	

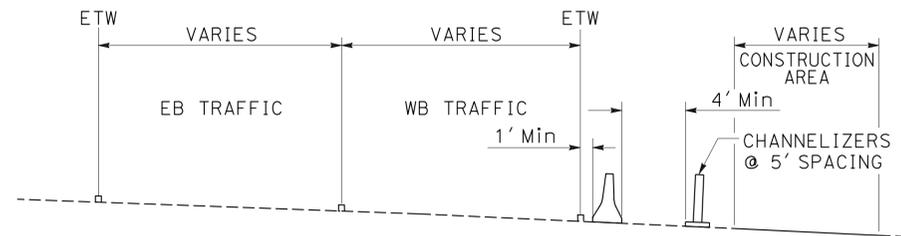
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. USE TRAFFIC CONTROL SYSTEM, STANDARD PLANS T11 AND T13.
2. LOCATION OF THE PORTABLE CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

LEGEND:

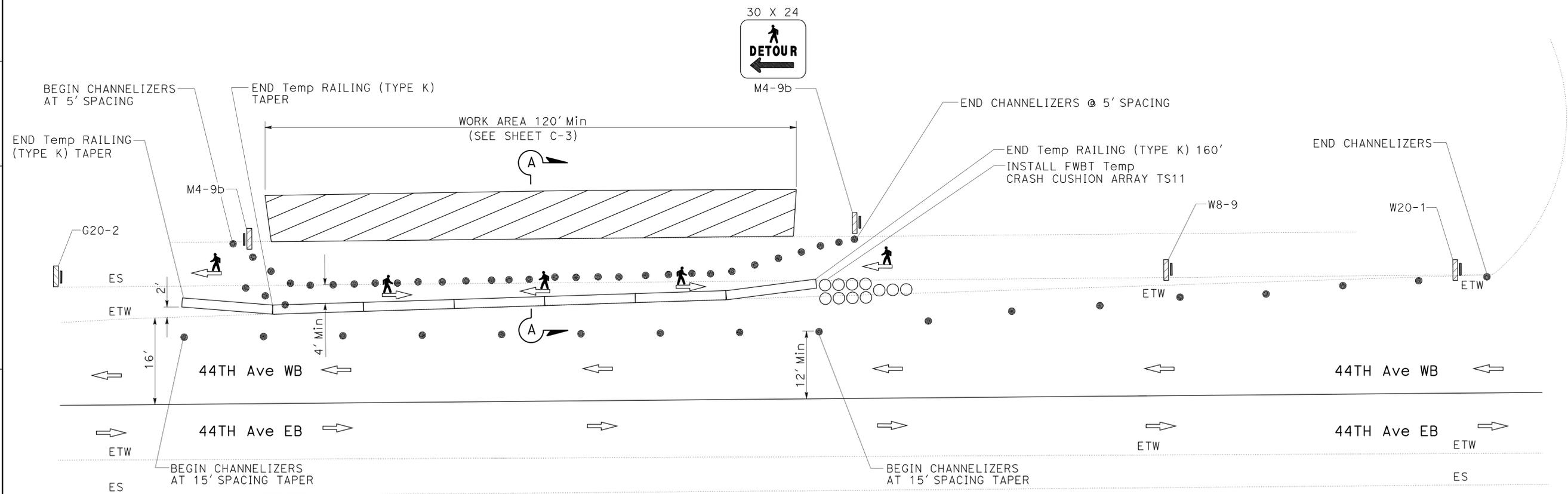
- PORTABLE SIGN ON TYPE II BARRICADE
- CHANNELIZER @ 15' SPACING (OR AS NOTED)
- Temp RAILING (TYPE K)
- DIRECTION OF TRAVEL
- CONSTRUCTION AREA
- Temp CRASH CUSHION ARRAY TS11
- DIRECTION OF PEDESTRIAN TRAVEL



SECTION A-A
44TH AVENUE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: BILL WASSER
 CALCULATED/DESIGNED BY: DARYUSH NAMI
 CHECKED BY: TRAN HOANG
 REVISED BY: DARYUSH NAMI
 DATE REVISION: TRAN HOANG



PEDESTRIAN DETOUR TRAFFIC
AT NORTH SIDE SLOPE
ON THE 44TH AVENUE-INDIO

TRAFFIC HANDLING PLAN
NO SCALE
TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

LAST REVISION: DATE PLOTTED => 19-MAR-2013
 01-28-13 TIME PLOTTED => 06:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	9	41

Daryush Nami 1-28-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

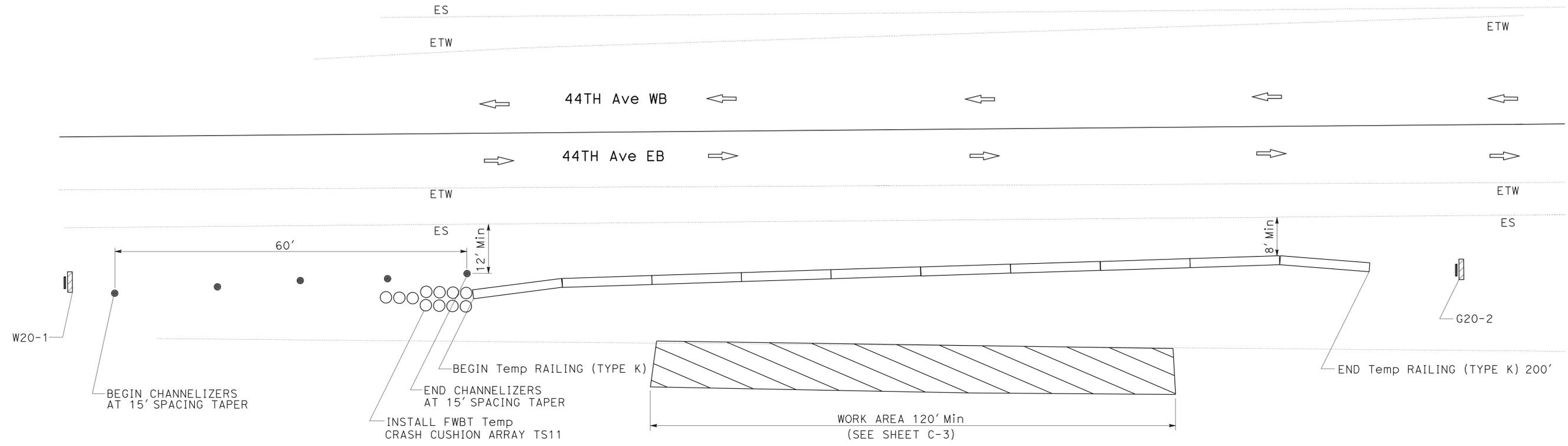
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DARYUSH NAMI
No. 78890
Exp. 3-31-14
CIVIL



TRAFFIC HANDLING SIGNS

SIGN CODE		PANEL SIZE	SIGN MESSAGE	TYPE ON BARRICADE	NUMBER OF SIGNS
FEDERAL	CALIFORNIA				
M4-9b		30" x 24"	PEDESTRIAN DETOUR ARROW	PORTABLE	2
W20-1	C23(CA)	36" x 36"	ROAD WORK AHEAD	PORTABLE	2
W8-9	C31A(CA)	36" x 36"	NO SHOULDER	PORTABLE	1
G20-2	C14(CA)	36" x 18"	END ROAD WORK	PORTABLE	2



TRAFFIC HANDLING AT SOUTH SIDE SLOPE ON THE 44TH AVENUE-INDIO

TRAFFIC HANDLING QUANTITIES

SHEET NUMBER	CHANNELIZER (SURFACE MOUNTED)	Temp RAILING (TYPE K)	Temp RAILING (TYPE K) REFLECTORS (N)	TEMPORARY CRASH CUSHION MODULE	TYPE II BARRICADE
	EA	LF	EA	EA	EA
TH-1	54	140	7	11	5
TH-2	5	200	10	11	2
TOTAL	59	340	17	22	7

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

REVISOR: DARYUSH NAMI
DATE: 1-28-13

DESIGNER: TRAN HOANG

CHECKED BY: BILL WASSER

FUNCTIONAL SUPERVISOR: BILL WASSER

APPROVED FOR TRAFFIC HANDLING WORK ONLY

TRAFFIC HANDLING PLAN TH-2

NO SCALE

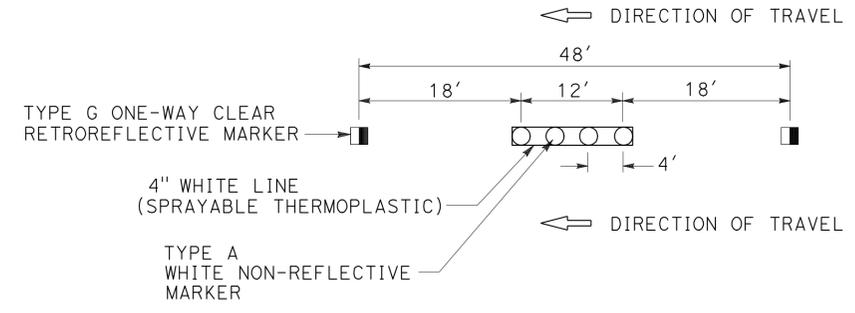
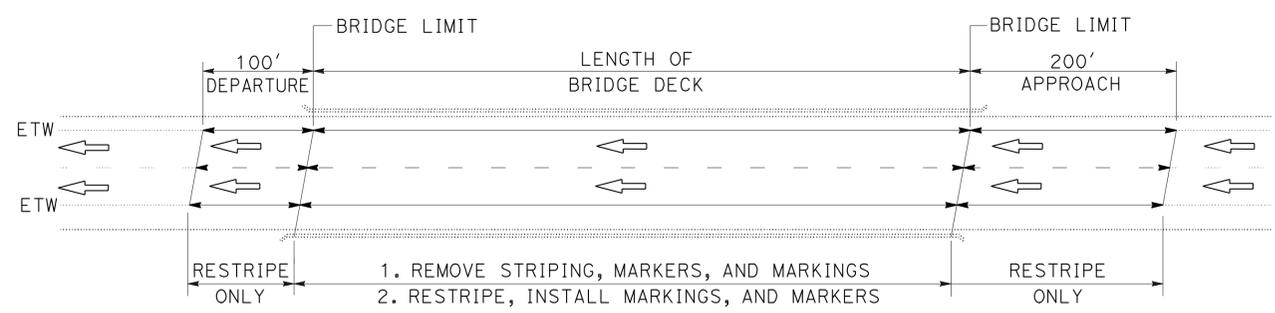
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	10	41

Daryush Nami 1-28-13
 REGISTERED CIVIL ENGINEER DATE

3-18-13
 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.

DARYUSH NAMI
 No. 78890
 Exp. 3-31-14
 CIVIL
 STATE OF CALIFORNIA



TYPICAL PAVEMENT DELINEATION WORK OR AS DIRECTED

DETAIL 13 MODIFIED (13M)

INSTALL TYPE A NON-REFLECTIVE MARKER WITH STRIPING DETAIL 13M
 INSTALL TYPE A MARKER BEFORE STRIPING TO GET THE PROPER BONDING

PAVEMENT DELINEATION QUANTITIES

LOCATION No.	ROUTE/PM	NUMBER & NAME OF BRIDGE	DIRECTION	DETAIL No. OR PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE HAZARDOUS WASTE	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				PAVEMENT MARKER				
											NON-REFLECTIVE	RETROREFLECTIVE				
								4" YELLOW	4" WHITE	8" WHITE		TYPE A	TYPE D	TYPE G	TYPE H	
LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA			
1	Rte 10 R5.71	56-0215L MIDDLE FORK SAN TIMOTEO CREEK	WB	36		200	12							12		
				27B		200				800						
				13M		50	32			800		24			8	
				25	100		4	400								4
2	Rte 10 6.67	56-0452F W10-W60 CONNECTOR OC	WB	12		95	9			680				9		
				27B		380			680							
				25	380		9	680							9	
3	Rte 10 8.21	56-0433 PENNSYLVANIA Ave UC	WB	27B		84				384				9		
				12		63	9		1152					9		
			25	84		3	384							3		
			EB	27B		84			9		384					9
12		63		9		1152							9			
4	Rte 10 9.31	56-0432 HIGHLAND SPRINGS Ave UC	WB	27B		84				384				9		
				12		63	9		1152					9		
			25	84		3	384							3		
			EB	27B		84			9		384					9
12		63		9		1152							9			
5	Rte 10 11.33	56-0431 SUNSET Ave UC	WB	27B		84				384				9		
				12		63	9		1152					9		
			25	84		3	384							3		
			EB	27B		84			9		384					9
12		63		9		1152							9			
6	Rte 10 R11.96	56-0430 SUNSET Ave UC	WB	27B		84				384				9		
				12		63	9		1152					9		
			25	84		3	384							3		
			EB	27B		84			9		384					9
12		63		9		1152							9			
7	Rte 10 12.85	56-0323 Rte 10/243 SEPARATION (8TH St UC)	WB	27B		66				366				6		
				12		50	6		1098					6		
			25	66		2	366							2		
			EB	27B		66			9		366					6
12		50		6		1098							6			
				25	66		2	366					6	2		
SUB-TOTAL					1284	2333	178	4884	18176	800	24	0	113	41		

PAVEMENT DELINEATION QUANTITIES PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

REVISOR BY: DARYUSH NAMI
 DATE: 1-28-13

DESIGNER BY: TRAN HOANG
 CHECKED BY: BILL WASSER

CALCULATED BY: DARYUSH NAMI
 DESIGNED BY: TRAN HOANG

FUNCTIONAL SUPERVISOR: BILL WASSER

TRAFFIC DESIGN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	11	41

Daryush Nami 1-28-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

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

PAVEMENT DELINEATION QUANTITIES

LOCATION No.	ROUTE /PM	NUMBER & NAME OF BRIDGE	DIRECTION	DETAIL No. OR PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE HAZARDOUS WASTE	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)						PAVEMENT MARKER			
														NON-REFLECTIVE		RETROREFLECTIVE	
								4" YELLOW	4" WHITE	8" WHITE	TYPE A	TYPE D	TYPE G	TYPE H			
			EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA			
8	13.86 Rte 10	56-0324 HARGRAVE S+ UC	WB	27B		66											
				12		50		6									
				25	66		2	366						6			
			EB	27B		66											
				12		50		6									
				25	66		2	366								2	
9	R16.14 Rte 10	56-0003 SAN GORGONIO WASH	WB	27B		336											
				12		252		24									
				25	336		8	636						24			
			EB	27B		336											
				12		252		24									
				25	336		8	636								8	
10	R16.23 Rte 10	56-0351 SAN GORGONIO OVERFLOW	WB	27B		49											
				12		36		6									
				25	49		2	349									
			EB	27B		49											
				12		36		6									
				25	49		2	349								2	
11	R19.41 Rte 10	56-0562 EAST CABAZON DITCH	WB	27B		49											
				12		36		6									
				25	49		2	349									
			EB	27B		49											
				12		36		6									
				25	49		2	349								2	
12	R56.57 Rte 10	56-0613L 44TH Ave UC	WB	27B		184											
				13M		92		42				32		10			
				25	184		5	484							5		
13	R56.57 Rte 10	56-0613R 44TH Ave UC	EB	27B		184											
				13M		92		42				32		10			
				25	184		5	484							5		
14	R60.40 Rte 10	56-0079R COACHELLA CANAL	EB	27B		80											
				13M		20		11				8		3			
				25	80		3	380							3		
15	R72.93 Rte 10	56-0460L WEST CACTUS WASH	WB	27B		84											
				13M		24		11				8		3			
				25	84		3	384							3		
16	R72.95 Rte 10	56-0460R WEST CACTUS WASH	EB	27B		84											
				13M		24		11				8		3			
				25	84		3	384							3		
17	R73.18 Rte 10	56-0461L CACTUS WASH	WB	27B		184											
				13M		46		21				16		5			
				25	184		5	484							5		
18	R73.45 Rte 10	56-0462L EAST CACTUS WASH	WB	27B		114											
				13M		36		16				12		4			
				25	114		4	414							4		
19	R73.47 Rte 10	56-0462R EAST CACTUS WASH	EB	27B		114											
				13M		36		16				12		4			
				25	114		4	414							4		
SUB-TOTAL					2028	3146	314	6828	21424	0	128	0	126	60			

PAVEMENT DELINEATION QUANTITIES PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: BILL WASSER
 CALCULATED/DESIGNED BY: DARYUSH NAMI
 CHECKED BY: TRAN HOANG
 REVISED BY: DATE REVISOR

LAST REVISION: DATE PLOTTED => 26-MAR-2013
 01-28-13 TIME PLOTTED => 12:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	12	41

Daryush Nami 1-28-13
 REGISTERED CIVIL ENGINEER DATE
 3-18-13
 PLANS APPROVAL DATE

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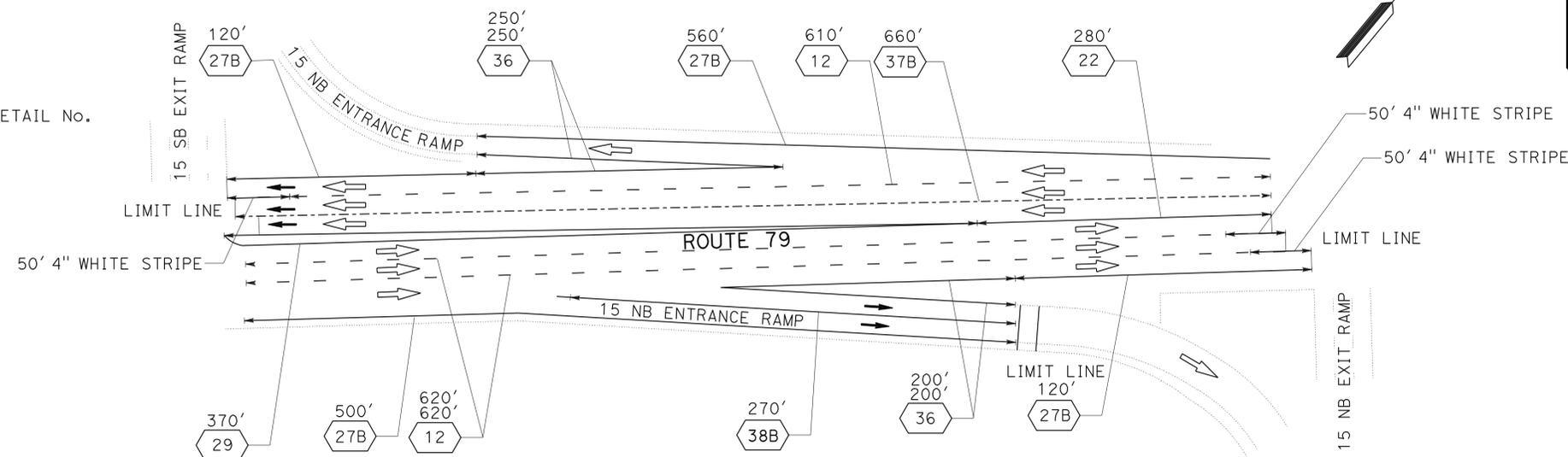
REGISTERED PROFESSIONAL ENGINEER
 DARYUSH NAMI
 No. 78890
 Exp. 3-31-14
 CIVIL
 STATE OF CALIFORNIA

NOTES:

- (AT LOCATION 23 (WINCHESTER ROAD SEPARATION))
- REMOVE ALL Exist MARKERS, AND STRIPING FROM INTERSECTION OF THE Rte 79, AND THE Rte 15 SB EXIT Ramp TO THE INTERSECTION OF Rte 79, AND THE Rte 15 NB EXIT Ramp
 - RE-STRIPE Rte 79 PER PLAN.

LEGEND:

- xx' LENGTH (FEET) AND STRIPE DETAIL No.
- TYPE I ARROW (24")
- DIRECTION OF TRAFFIC



PAVEMENT DELINEATION WORK AT BRIDGE 56-0656 ON WINCHESTER ROAD SEPARATION (LOCATION 23)

PAVEMENT DELINEATION QUANTITIES

LOCATION No.	ROUTE/PM	NUMBER & NAME OF BRIDGE	DIRECTION	DETAIL No. OR PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE HAZARDOUS WASTE	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			PAVEMENT MARKER					
								4" YELLOW	4" WHITE	8" WHITE	NON-REFLECTIVE		RETROREFLECTIVE			
											EA	EA	EA	EA		
20	Rte 10 R78.54	56-0212R BURIED MOUNTAIN WASH	EB	27B		84										
				13M		21				8						
				25	84		3	384					3			
21	Rte 10 R153.16	56-0597L SEVENTH AVENUE UC	WB	27B		114										
				13M		36		16		12			4			
				25	144		4	444						4		
22	Rte 74 75.66	56-0185 HORSE CREEK	WB	27B		84										
			EB	27B		84										
			WB/EB	22	168		10	384			10					
23	Rte 79 R2.28	56-0656 WINCHESTER ROAD SEPARATION	EB	27B		500										
				38B		270	28							28		
				36		400	20							20		
				27B		120										
				4" WHITE STRIPE		100										
			WB/EB	12		310	30								30	
				22	560		28	270						28		
				29	1480		36	740						36		
				8" WHITE STRIPE		740	20									
				37B											48	
WB	12		160	16								16				
	4" WHITE STRIPE		50													
	36		500	24								24				
	27B		570													
	27B		120													
SUB-TOTAL					2436	4263	246	2222	5774	1830	20	74	173	7		

THERMOPLASTIC PAVEMENT MARKING	
	SQFT
TYPE I ARROW	155
LIMIT LINE	72

PAVEMENT DELINEATION QUANTITIES PDQ-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	13	41

Daryush Nami 1-28-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DARYUSH NAMI
No. 78890
Exp. 3-31-14
CIVIL
STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

LOCATION No.	ROUTE/PM	NUMBER & NAME OF BRIDGE	DIRECTION	DETAIL No. OR PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE HAZARDOUS WASTE	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)						PAVEMENT MARKER						
											NON-REFLECTIVE		RETROREFLECTIVE							
								4" YELLOW	4" WHITE	8" WHITE	EA	EA	EA	EA	EA	EA	EA			
24	Rte 79 7.07	56-0188 TEMECULA CREEK	WB	27B		204														
			WB/EB	22	408	10	504				10									
			EB	27B																
25	Rte 79 M33.78	56-0782 GILMAN SPRING ROAD UC	WB	27B		156														
				12		39	5							5						
				25	312			456								5				
			EB	27B		156														
				12		39	5									5				
				25	312			456									5			
26	Rte 79 40.33	56-0561 CENTRAL BEAUMONT OH	EB	27B		150														
				9		44	5								5					
				22	300		16	350				16								
			WB/EB	29																
				9		44	5									5				
				27B		150														
27	Rte 86S R11.94	56-0780L CVWD PIPELINE UC	SB	27B		108														
				12		27	4							4						
				25	108			408												
28	Rte 86S R11.96	56-0780R CVWD PIPELINE UC	NB	27B		108														
				12		27	4							4						
				25	108			408							4					
SUB-TOTAL SHEET PDQ-4					1548	1456	54	2982	6264	0		26	28	14						

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

PAVEMENT DELINEATION QUANTITIES PDQ-4

LAST REVISION DATE PLOTTED => 26-MAR-2013 01-28-13 TIME PLOTTED => 12:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	14	41

Daryush Nami 1-28-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DARYUSH NAMI
No. 78890
Exp. 3-31-14
CIVIL
STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

LOCATION No.	ROUTE 10		NUMBER & NAME OF BRIDGE	DIRECTION	DETAIL No. OR PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE HAZARDOUS WASTE LF	REMOVE THERMOPLASTIC TRAFFIC STRIPE LF	REMOVE PAVEMENT MARKER EA	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				PAVEMENT MARKER			
	FROM	TO							NON-REFLECTIVE		RETROREFLECTIVE					
	PM	PM							TYPE A	TYPE D	TYPE G	TYPE H				
									4" YELLOW LF	4" WHITE LF	8" WHITE LF	EA	EA	EA	EA	
29	44	44.36	---	EB				124							124	
	46.36	46.55	---	EB				45							45	
	46.55	50.26	---	EB				820							820	
	50.26	52.2	---	EB				430							430	
	52.2	54.46	---	EB				500							500	
	54.46	55.52	---	EB				236							236	
	55.52	56.66	---	EB				254							254	
	56.66	57.38	---	EB				162							162	
	57.38	57.6	---	EB				52							52	
	57.16	57.42	---	EB				32							32	
	57.6	57.8	---	EB				24							24	
	57.8	57.46	---	WB				40							40	
	57.46	57.04	---	WB				142							142	
	57.04	55.9	---	WB				254							254	
	55.9	54.9	---	WB				222							222	
	54.9	52.9	---	WB				442							442	
	52.9	50.5	---	WB				530							530	
	50.5	47.16	---	WB				738							738	
	47.16	44.7	---	WB				544							544	
	44.7	44	---	WB				156							156	
	SUB-TOTAL SHEET PDQ-5							5747							5747	
	SUB-TOTAL SHEET PDQ-4					1548	1456	54	2982	6264	0		26	28	14	
	SUB-TOTAL SHEET PDQ-3					2436	4263	246	2222	5774	1830	20	74	173	7	
	SUB-TOTAL SHEET PDQ-2					2028	3146	314	6828	21424	0	128	0	126	60	
	SUB-TOTAL SHEET PDQ-1					1284	2333	178	4884	18176	800	24	0	113	41	
	TOTAL					7296	11198	6539	68554		2630	172	6409			

THERMOPLASTIC PAVEMENT MARKING	
	SQFT
TYPE I ARROW	155
LIMIT LINE	72

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
DARYUSH NAMI
TRAN HOANG
CALCULATED/DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
BILL WASSER
REVISOR BY
DATE REVISED

PAVEMENT DELINEATION QUANTITIES PDQ-5

LAST REVISION DATE PLOTTED => 26-MAR-2013 01-28-13 TIME PLOTTED => 1:2:28

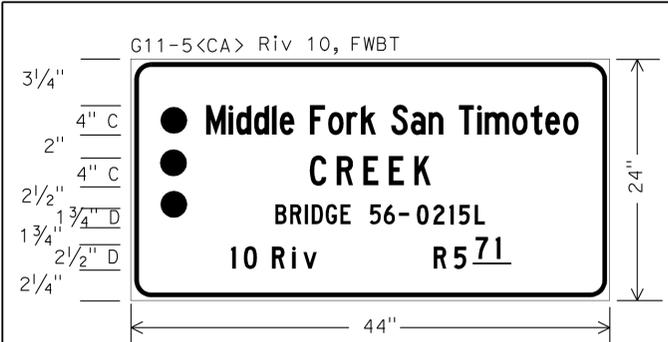
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	15	41

Daryush Nami 1-28-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

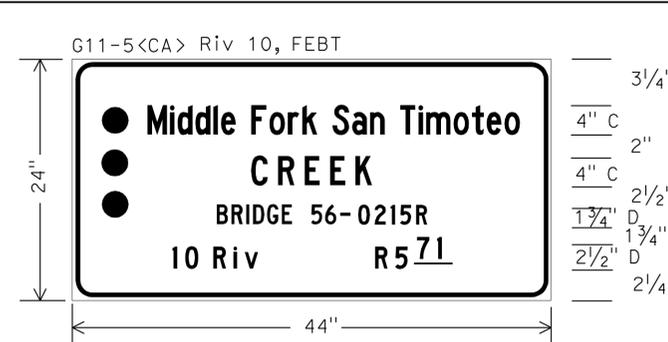
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: BILL WASSER
 CALCULATED/DESIGNED BY: DARYUSH NAMI
 CHECKED BY: TRAN HOANG
 REVISED BY: DATE REVISIONS:

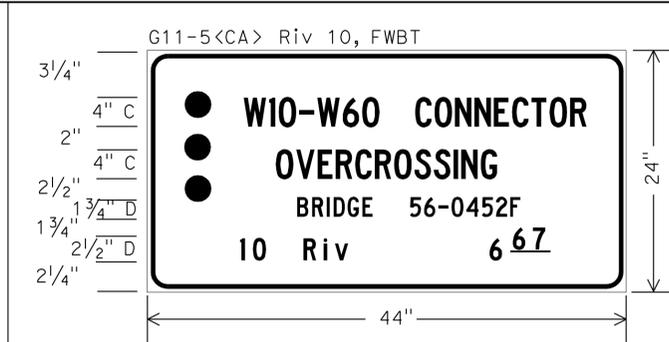


G11-5<CA> Riv 10, FWBT
 1.5" Rad., 0.375" Border, Black on White;
 [Middle Fork San Timoteo] 4"C; [CREEK] 4"C;
 [BRIDGE 56-0215L] 1 3/4" D; [10 Riv R5.71] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 1

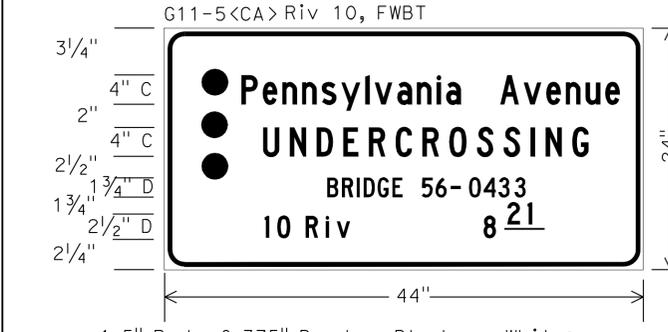


G11-5<CA> Riv 10, FEBT
 1.5" Rad., 0.375" Border, Black on White;
 [Middle Fork San Timoteo] 4"C; [CREEK] 4"C;
 [BRIDGE 56-0215R] 1 3/4" D; [10 Riv R5.71] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)



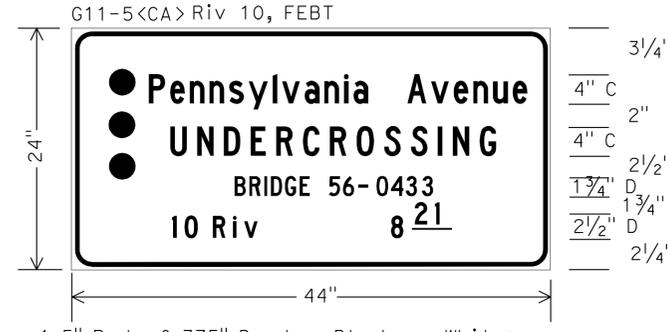
G11-5<CA> Riv 10, FWBT
 1.5" Rad., 0.375" Border, Black on White;
 [W10-W60 CONNECTOR] 4"C; [OVERCROSSING] 4"C;
 [BRIDGE 56-0452F] 1 3/4" D; [10 Riv 6.67] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 2

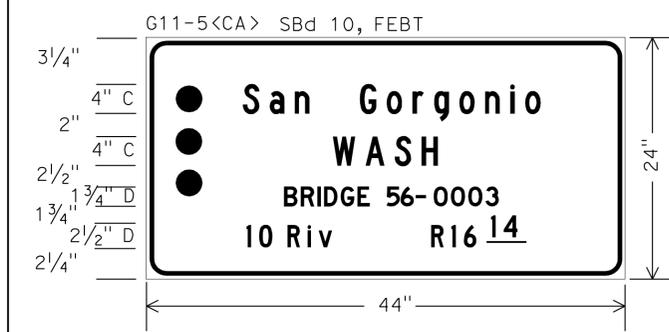


G11-5<CA> Riv 10, FWBT
 1.5" Rad., 0.375" Border, Black on White;
 [Pennsylvania Avenue] 4"C; [UNDERCROSSING] 4"C;
 [BRIDGE 54-0433] 1 3/4" D; [10 Riv 8.21] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 3

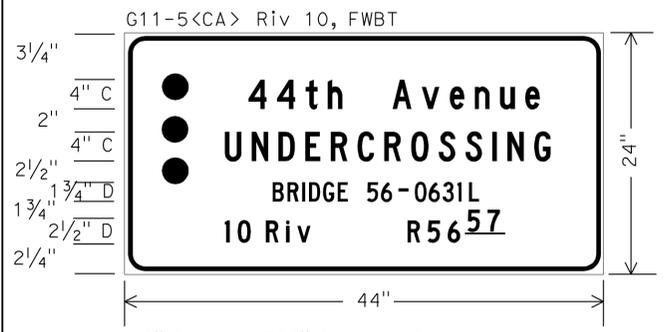


G11-5<CA> Riv 10, FEBT
 1.5" Rad., 0.375" Border, Black on White;
 [Pennsylvania Avenue] 4"C; [UNDERCROSSING] 4"C;
 [BRIDGE 54-0433] 1 3/4" D; [10 Riv 8.21] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)



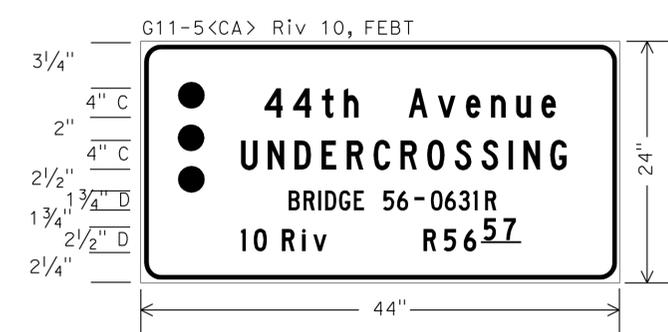
G11-5<CA> SBd 10, FEBT
 1.5" Rad., 0.375" Border, Black on White;
 [San Gorgonio] 4"C; [WASH] 4"C;
 [BRIDGE 56-0003] 1 3/4" D; [10 Riv R16.14] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 09



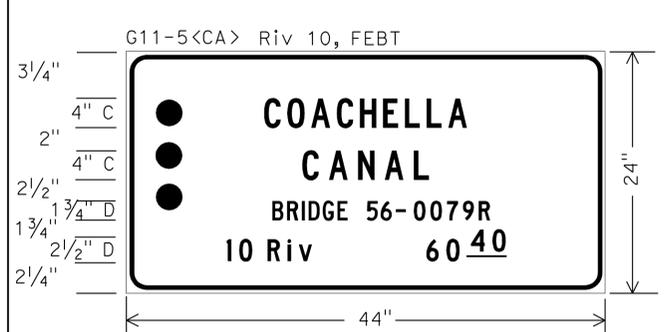
G11-5<CA> Riv 10, FWBT
 1.5" Rad., 0.375" Border, Black on White;
 [44th Avenue] 4"C; *[UNDERCROSSING] 4"C;
 [BRIDGE 54-0631L] 1 3/4" D; [10 Riv R56.57] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 12



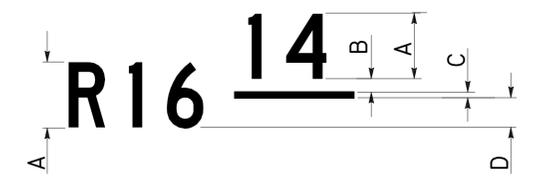
G11-5<CA> Riv 10, FEBT
 1.5" Rad., 0.375" Border, Black on White;
 [44th Avenue] 4"C; *[UNDERCROSSING] 4"C;
 [BRIDGE 54-0631R] 1 3/4" D; [10 Riv R56.57] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 13



G11-5<CA> Riv 10, FEBT
 1.5" Rad., 0.375" Border, Black on White;
 [COACHELLA] 4"C; [CANNAL] 4"C;
 [BRIDGE 56-0079R] 1 3/4" D; [10 Riv 60.40] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 14



INCHES

A	B	C	D
2 1/2	1/2	3/8	1

TYPICAL DIMENSIONING FOR POSTMILE VALUE

APPROVED FOR SIGN WORK ONLY

SIGN DETAILS
 NO SCALE **SD-1**

LAST REVISION DATE PLOTTED => 26-MAR-2013 01-28-13 TIME PLOTTED => 1:2:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	16	41

Daryush Nami 1-28-13
 REGISTERED CIVIL ENGINEER DATE
 3-18-13
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
DARYUSH NAMI
 No. 78890
 Exp. 3-31-14
 CIVIL
 STATE OF CALIFORNIA

G11-5<CA> Riv 10, FWBT

1.5" Rad., 0.375" Border, Black on White;
 [WEST CACTUS] 4"C; [WASH] 4"C;
 [BRIDGE 56-0460L] 1 3/4" D; [10 Riv R72.93] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 15

G11-5<CA> Riv 10, FEBT

1.5" Rad., 0.375" Border, Black on White;
 [WEST CACTUS] 4"C; [WASH] 4"C;
 [BRIDGE 56-0460R] 1 3/4" D; [10 Riv R72.95] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 16

G11-5<CA> Riv 10, FWBT

1.5" Rad., 0.375" Border, Black on White;
 [CACTUS WASH] 4"C;
 [BRIDGE 56-0461L] 1 3/4" D; [10 Riv R73.18] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 17

G11-5<CA> Riv 10, FWBT

1.5" Rad., 0.375" Border, Black on White;
 [EAST CACTUS] 4"C; [WASH] 4"C;
 [BRIDGE 56-0462L] 1 3/4" D; [10 Riv R73.45] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 18

G11-5<CA> Riv 10, FEBT

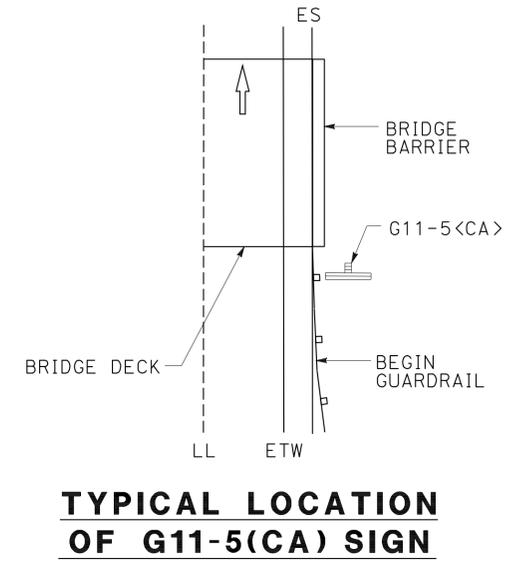
1.5" Rad., 0.375" Border, Black on White;
 [EAST CACTUS] 4"C; [WASH] 4"C;
 [BRIDGE 56-0462R] 1 3/4" D; [10 Riv R73.47] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 19

G11-5<CA> Riv 10, FEBT

1.5" Rad., 0.375" Border, Black on White;
 [Buried Mountain] 4"C; [WASH] 4"C;
 [BRIDGE 56-0212R] 1 3/4" D; [10 Riv R78.54] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 20



G11-5<CA> Riv 79, FNBT

1.5" Rad., 0.375" Border, Black on White;
 [WINCHESTER ROAD] 4"C; [79/15 SEPARATION] 4"C;
 [BRIDGE 56-0656] 1 3/4" D; [79 Riv R2.28] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 23

G11-5<CA> Riv 79, FSBT

1.5" Rad., 0.375" Border, Black on White;
 [WINCHESTER ROAD] 4"C; [79/15 SEPARATION] 4"C;
 [BRIDGE 56-0656] 1 3/4" D; [79 Riv R2.28] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 23

G11-5<CA> Riv 79, FNBT

1.5" Rad., 0.375" Border, Black on White;
 [WINCHESTER ROAD] 4"C; [79/15 SEPARATION] 4"C;
 [BRIDGE 56-0782] 1 3/4" D; [79 Riv M33.78] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 25

G11-5<CA> Riv 79, FSBT

1.5" Rad., 0.375" Border, Black on White;
 [WINCHESTER ROAD] 4"C; [79/15 SEPARATION] 4"C;
 [BRIDGE 56-0782] 1 3/4" D; [79 Riv M33.78] 2 1/2" D
 INSTALL ROADSIDE SIGN (ONE POST)

LOCATION 25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: BILL WASSER
 CHECKED BY: TRAN HOANG
 DARYUSH NAMI
 REVISOR: DARYUSH NAMI
 DATE: 7/2/2010

APPROVED FOR SIGN WORK ONLY

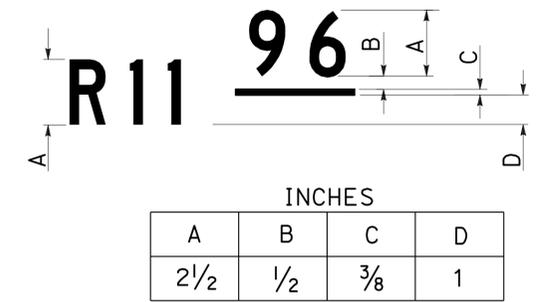
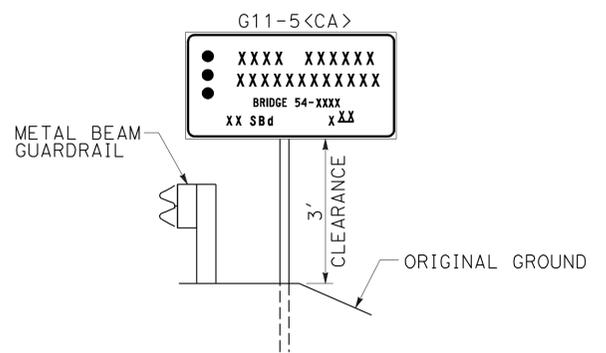
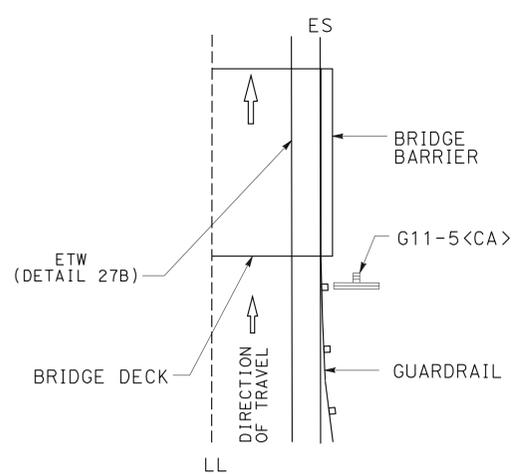
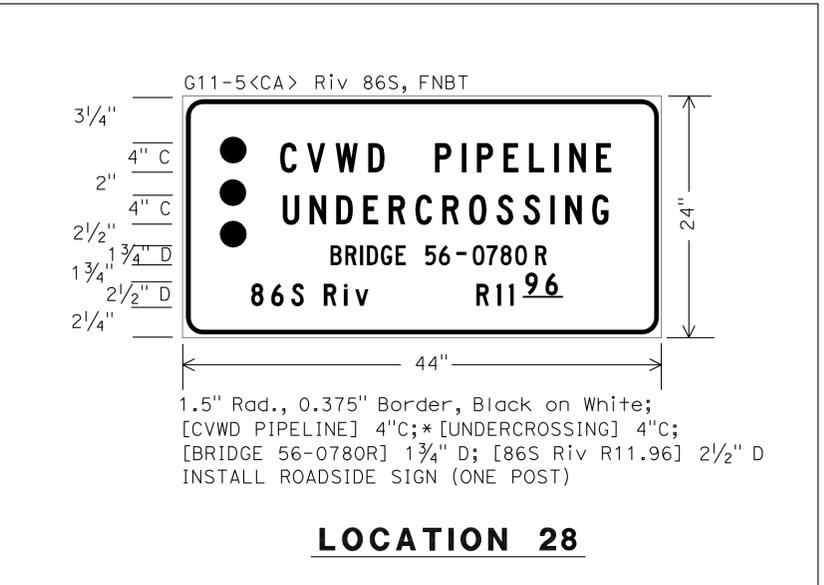
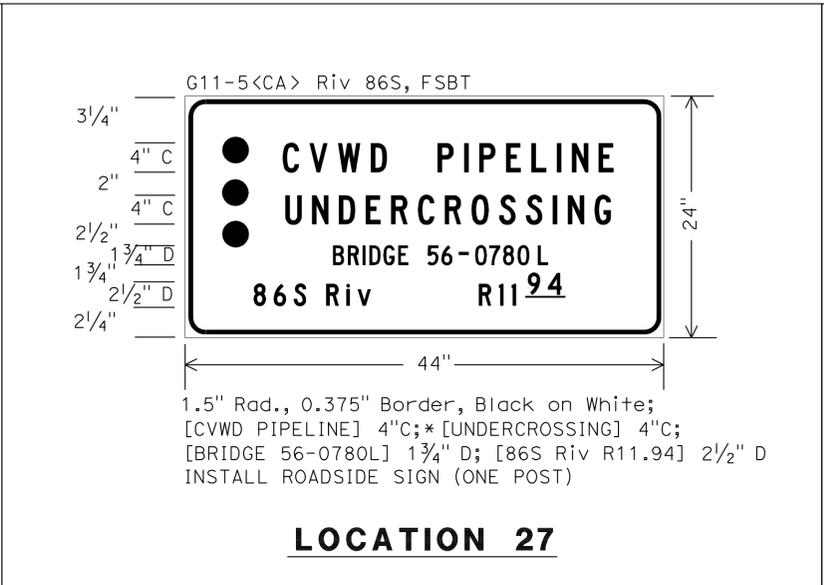
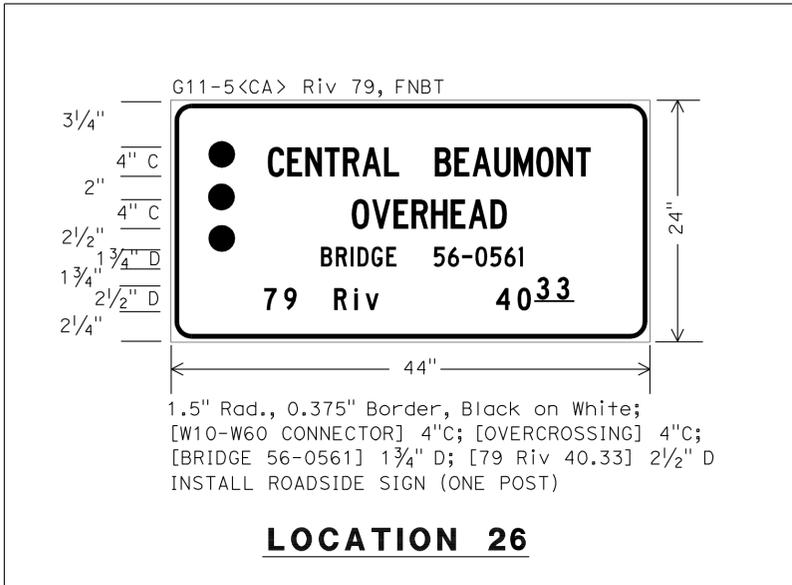
SIGN DETAILS
 NO SCALE **SD-2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S, 79, 74, 10	Var	17	41

Daryush Nami 1-28-13
 REGISTERED CIVIL ENGINEER DATE

3-18-13
 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.



TYPICAL LOCATION AND INSTALLATION OF G11-5(CA) SIGN

TYPICAL DIMENSIONING FOR POSTMILE VALUE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: BILL WASSER
 CALCULATED/DESIGNED BY: TRAN HOANG
 CHECKED BY: DARYUSH NAMI
 REVISED BY: DATE REVISIONS

APPROVED FOR SIGN WORK ONLY

SIGN DETAILS
 NO SCALE **SD-3**

LAST REVISION DATE PLOTTED => 26-MAR-2013
 01-28-13 TIME PLOTTED => 12:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	18	41

Daryush Nami 1-28-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

DARYUSH NAMI
No. 78890
Exp. 3-31-14
CIVIL

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

NOTE:

- CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION AND SIGN INSTALLATION.

SIGN PANEL MATERIAL SUMMARY

LOCATION	ROUTE	PM	BRIDGE NUMBER	DIRECTION	SIGN CODE		PANEL SIZE L x D	SINGLE FACED	SIGN FACING MATERIAL					FURNISH SINGLE SHEET ALUMINUM SIGN		NAME OF BRIDGE
					FEDERAL	CALIFORNIA			BACKGROUND		LEGEND		PROTECTIVE FILM	UNFRAMED	UNFRAMED	
									SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE				
1	10	R5.71	56-0215L	WB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		MIDDLE FORK SAN TIMOTEO CREEK
1	10	R5.71	56-0215R	EB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		MIDDLE FORK SAN TIMOTEO CREEK
2	10	6.67	56-0452F	WB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		W10-W60 CONNECTOR OC
3	10	8.21	56-0433	WB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		PENNSYLVANIA AVENUE UC
3	10	8.21	56-0433	EB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		PENNSYLVANIA AVENUE UC
9	10	R16.14	56-0003	EB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		SAN GORGONIO WASH
12	10	R56.57	56-0613L	WB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		44th AVENUE UC WB
13	10	R56.57	56-0613R	EB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		44th AVENUE UC EB
14	10	R60.40	56-0079R	EB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		COACHELLA CANAL
15	10	R72.93	56-0460L	WB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		WEST CACTUS WASH
16	10	R72.95	56-0460R	EB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		WEST CACTUS WASH
17	10	R73.18	56-0461L	WB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		CACTUS WASH
18	10	R73.45	56-0462L	WB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		EAST CACTUS WASH
19	10	R73.47	56-0462R	EB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		EAST CACTUS WASH
20	10	R78.54	56-0212R	EB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		BURIED MOUNTAIN WASH
23	79	R2.28	56-0656	NB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		WINCHESTER ROAD SEPARATION
23	79	R2.28	56-0656	SB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		WINCHESTER ROAD SEPARATION
25	79	M33.78	56-0782	NB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		GILMAN SPRING ROAD UC
25	79	M33.78	56-0782	SB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		GILMAN SPRING ROAD UC
26	79	40.33	56-0561	NB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		CENTRAL BEAUMONT OH
27	86S	R11.94	56-0780L	SB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		CVWD PIPELINE UC
28	86S	R11.96	56-0780R	NB		G11-5<CA>	44" X 24"	X	WHITE	IV	BLACK		X	7.3		CVWD PIPELINE UC
TOTAL												160.6				

SIGN QUANTITIES
SQ-1



NOTES:

- EXACT LOCATION FOR REPLACE ASPHALT CONCRETE SURFACING TO BE DETERMINED BY ENGINEER.
- WIDTH OF TRAVEL WAY AND SHOULDER ARE NOMINAL. MATCH EXISTING WIDTHS IN THE FIELD.

REPLACE ASPHALT CONCRETE SURFACING

Loc No.	ROUTE	PM	DIRECTION	LENGTH	WIDTH	DEPTH	VOLUME
				LF	LF	LF	CY
23	79	R2.31	NB	50	4	0.5	3.70
TOTAL							3.70

SLOPE PAVING QUANTITIES

Loc No.	ROUTE	PM	DIRECTION	NAME OF BRIDGE	(N)	(N)	(N)	(N)	(N)	REMOVE SLOPE PAVING SQFT	SLOPE PAVING (CONCRETE) CY	BAR REINFORCING STEEL LB
					NUMBER OF PANEL	REDWOOD SPACER	LENGTH	WIDTH	DEPTH			
13	10	R56.57	EB/WB	44TH AVENUE UC	EA 24	LF 944	LF 16	LF 12	LF 0.25	4,608	42.67	3,078
TOTAL										4,608	42.67	3,078

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

PAVEMENT QUANTITIES

Loc No.	ROUTE	PM	DIRECTION	NAME OF BRIDGE	LENGTH	LANE WIDTH	SHOULDER WIDTH	HMA-C	** MINOR HMA	PAVING ASPHALT (BINDER, GEOSYNTHETIC PAVEMENT INTERLAYER)	COLD PLANE Conc Pvm+	IMPORTED BORROW	HMA DIKE TYPE F	RECONSTRUCT HOT MIX ASPHALT OVERSIDE DRAIN	SHOULDER RUMBLE STRIPE (AC GROUND-IN INDENTATION)
					LF	LF	LF	TON	TON	TON	SQYD	TON	LF	EA	STA
4	10	9.31	EB	* HIGHLAND SPRINGS AVENUE UC	-	-	-	-	-	-	-	13.13	-	-	-
11	10	R19.41	EB	EAST CABAZON DITCH	-	-	-	-	1	-	-	13.13	70	1	-
16	10	R72.93	EB	WEST CACTUS WASH	66	24	15	39.8	-	0.1	286	-	-	-	1.32
17	10	R73.18	WB	CACTUS WASH	66	24	15	39.8	-	0.1	286	-	-	-	1.32
18	10	R73.45	WB	EAST CACTUS WASH	66	24	15	39.8	-	0.1	286	-	-	-	1.32
19	10	R73.45	EB	EAST CACTUS WASH	66	24	15	39.8	-	0.1	286	-	-	-	1.32
20	10	R78.54	EB	BURIED MOUNTAIN WASH	66	24	15	39.8	-	0.1	286	-	-	-	1.32
TOTAL								199.0	1	0.5	1,430	26.26	70	1	6.60

* SOUTHEAST QUADRANT OF ROUTE 10/HIGHLAND SPRINGS AVENUE INTERSECTION
 ** FOR HMA DIKE

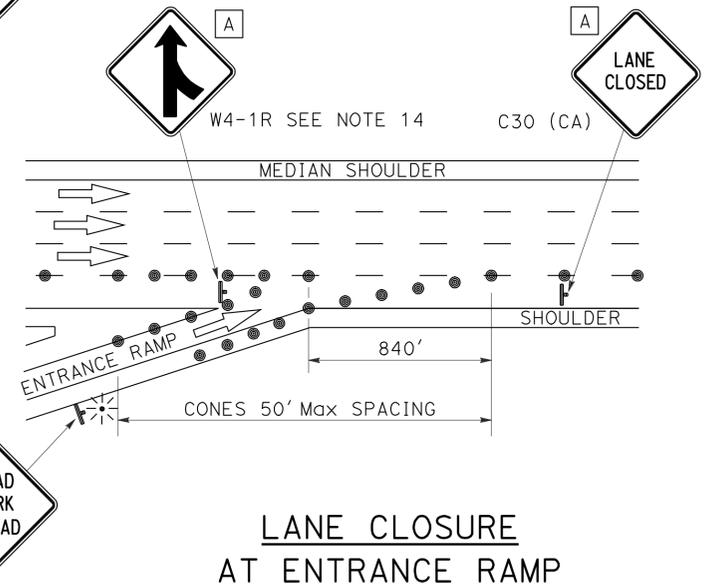
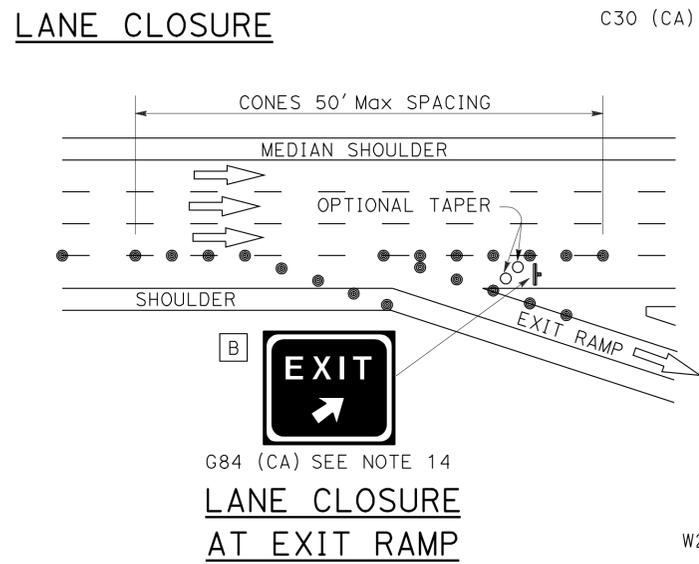
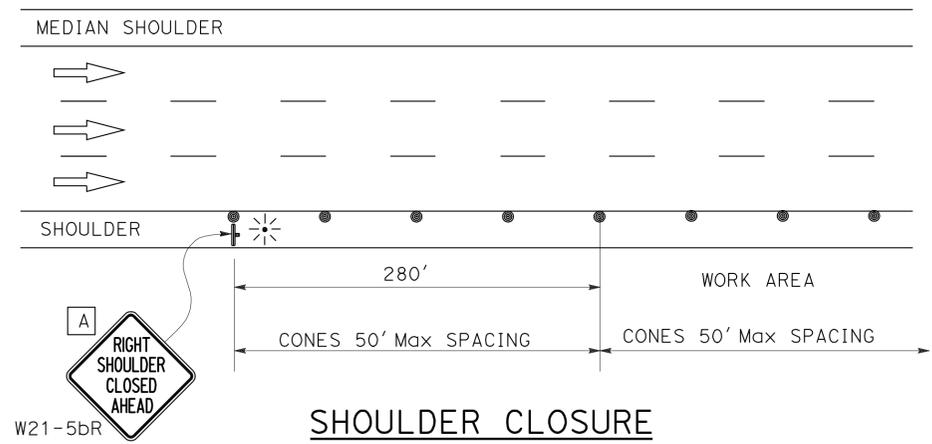
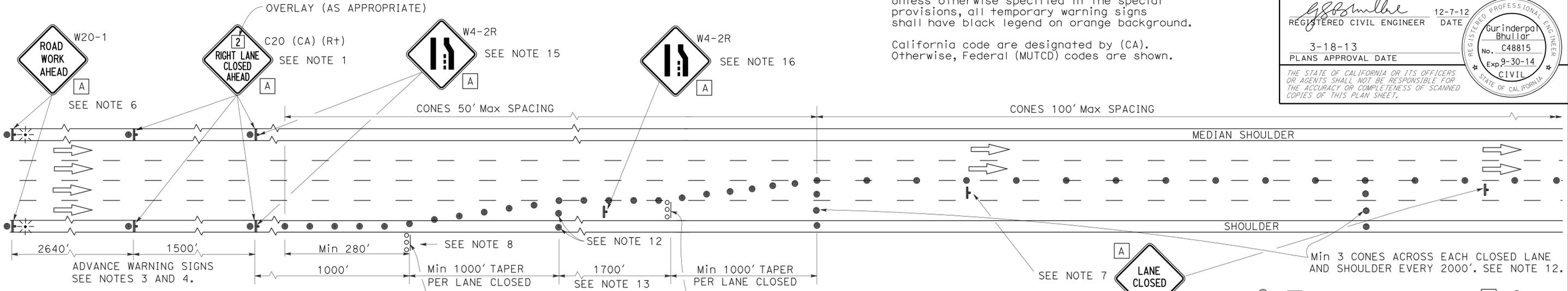
SUMMARY OF QUANTITIES Q-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	21	41

<i>Gurinderpal Bhullar</i>	12-7-12
REGISTERED CIVIL ENGINEER	DATE
3-18-13	
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.

NOTES:
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
 California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



- NOTES:**
- Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
 - At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 - Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 - Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 - A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
 - If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
 - Place a C30 (CA) sign every 2000' throughout length of lane closure.
 - One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
 - A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
 - Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 - Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
 - Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
 - When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
 - The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	54" x 48"

LEGEND

●	TRAFFIC CONE
○	TRAFFIC CONE (OPTIONAL TAPER)
↑	TEMPORARY SIGN
⚡	FLASHING ARROW SIGN (FAS)
☐	FAS SUPPORT OR TRAILER
⚡	PORTABLE FLASHING BEACON

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**
 NO SCALE
TCS-1

REVISOR: [blank]
 DATE: [blank]
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 FUNCTIONAL SUPERVISOR: [blank]
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA
 Et Caltrans

USERNAME => s121614
 DGN FILE => tcs10.dgn

RELATIVE BORDER SCALE IS IN INCHES
 0 1 2 3

UNIT 2343

PROJECT NUMBER & PHASE

08120001331

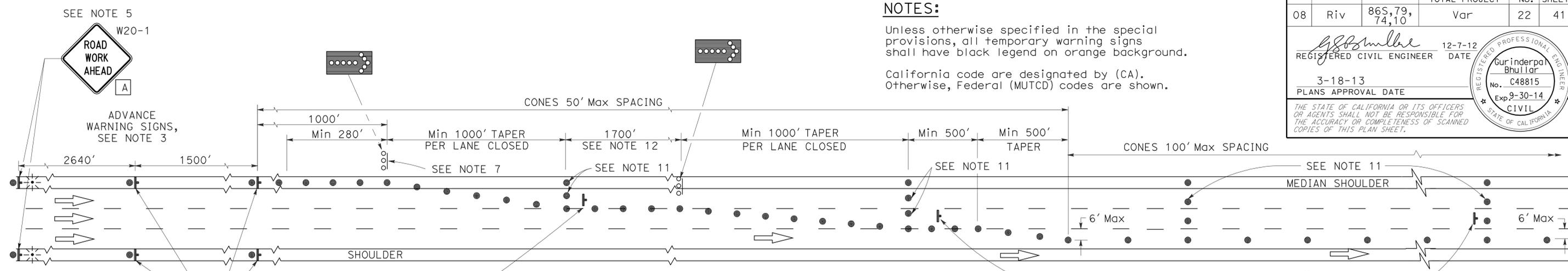
LAST REVISION DATE PLOTTED => 19-MAR-2013
 00-00-00 TIME PLOTTED => 05:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	22	41

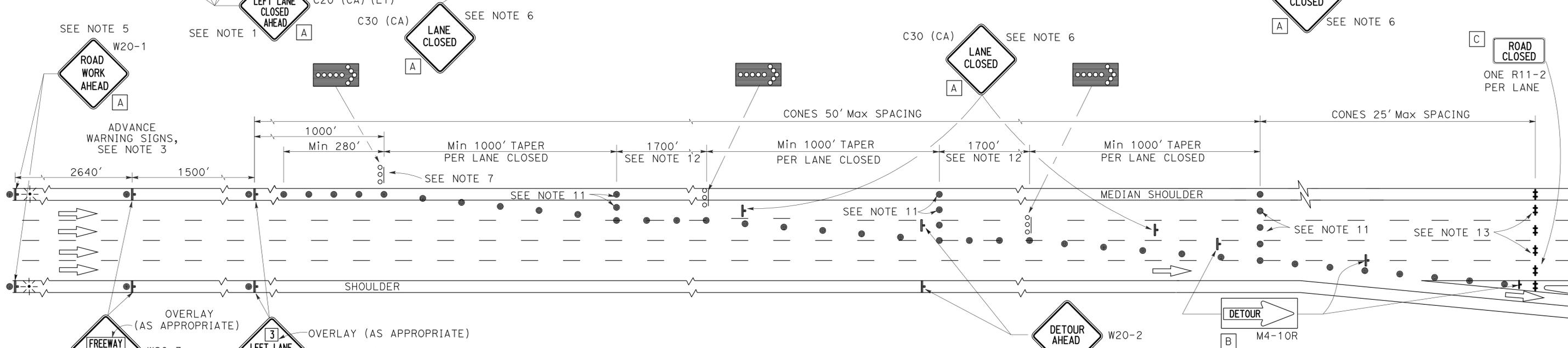
REGISTERED CIVIL ENGINEER	DATE 12-7-12
3-18-13 PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	

NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
 California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



LANE CLOSURE WITH PARTIAL SHOULDER USE



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details for inside lane closure except that C20 (CA) (Rt) signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT ___ MILES", use a C20 (CA) sign for the first advance warning sign.
- Place a C30 (CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
- A minimum of Two Type II barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

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

LEGEND

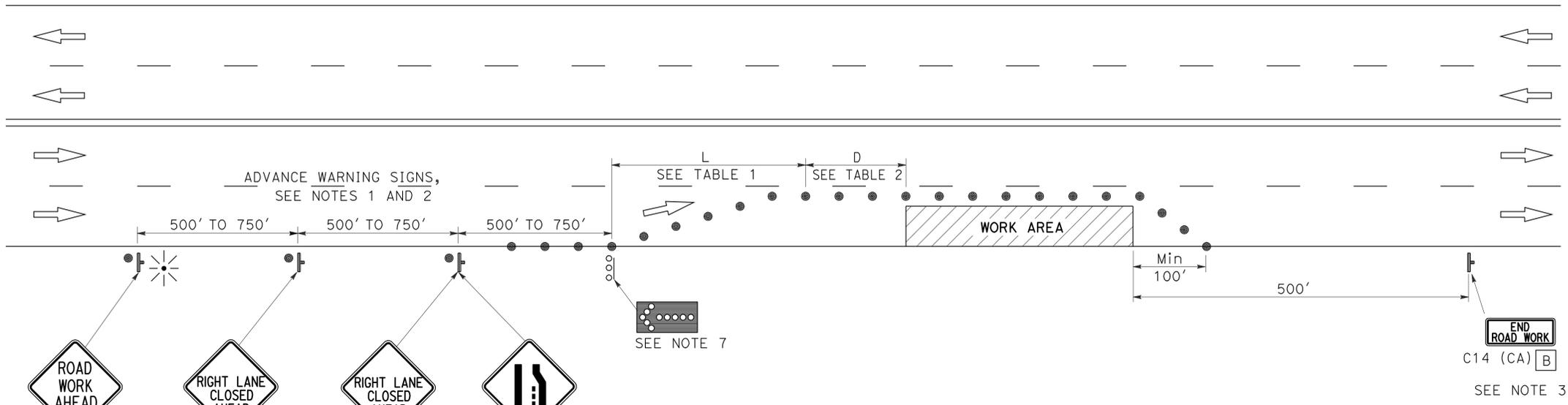
- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADE
- ◼ FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ☼ PORTABLE FLASHING BEACON

TRAFFIC CONTROL SYSTEM FOR LANE AND COMPLETE CLOSURES ON FREEWAYS AND EXPRESSWAYS

NO SCALE

TCS-2

TYPICAL LANE CLOSURE



NOTES:

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

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

TABLE 1

APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 AND BELOW	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
Over 50	SEE NOTE 9	
* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.		
** SEE NOTE 8.		

TABLE 2

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
OVER 50	SEE NOTE 9			
* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.				

LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY SIGN
- ⊙ FLASHING ARROW SIGN (FAS)
- ⊙ FAS SUPPORT OR TRAILER
- ⊙ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 36" x 36"
- B 36" x 18"

NOTES:

- Where approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT MILES", use a C20 (CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow sign shall be either Type I or Type II.
- The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
- For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-3

REVISIONS: 00-00-00 TIME PLOTTED => 05:58
 00-00-00 DATE PLOTTED => 19-MAR-2013
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans®
 FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY SIGN
- ⋯ FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ⊛ PORTABLE FLASHING BEACON

TABLE 1

APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 and below	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
OVER 50	SEE NOTE 11	

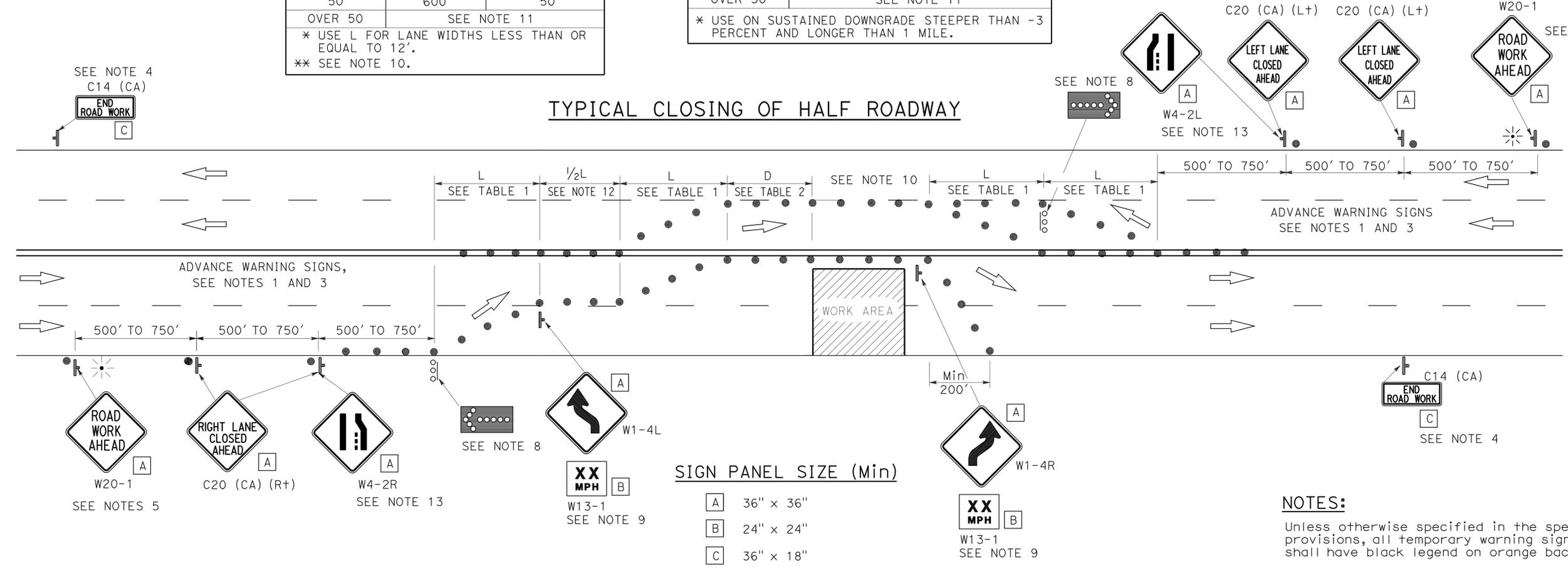
* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.
** SEE NOTE 10.

TABLE 2

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
OVER 50	SEE NOTE 11			

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

TYPICAL CLOSING OF HALF ROADWAY



SIGN PANEL SIZE (Min)

- (A) 36" x 36"
- (B) 24" x 24"
- (C) 36" x 18"

NOTES:

- Where Approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT MILES", use a C20 (CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow signs shall be either Type I or Type II.
- Advisory speed will be determined by the Engineer. The W13-1 Sign will not be required when advisory speed is more than the posted or maximum speed limit.
- The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
- For approach speeds over 50 mph, use the "Traffic Control System For Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- Unless otherwise specified in the special provisions, the (1/2 L) shown between the two (L) lane closure tapers shall be used.
- When specified in the special provisions, a W4-2 "Lane Ends" symbol sign is to be used in place of the C20 (CA) "RIGHT (LEFT) LANE CLOSED AHEAD" sign.

NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-4

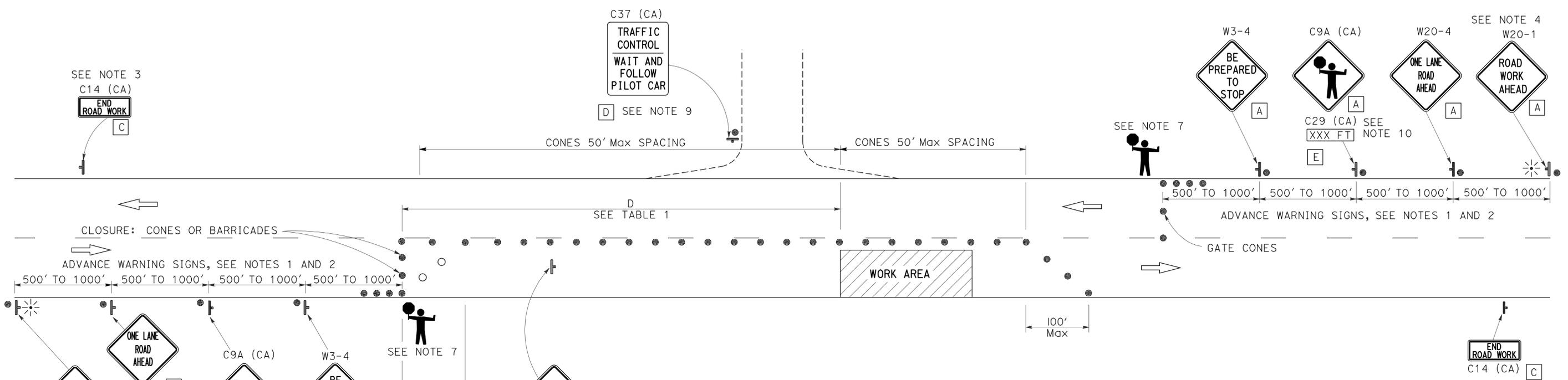
REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

NOTES:

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

- A 48" x 48" - SPEED OF 45 mph OR MORE
36" x 36" - SPEED LESS THAN 45 mph
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 36" x 9"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY SIGN
- ☀ PORTABLE FLASHING BEACON
- 🚧 FLAGGER

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

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

NOTES:

- Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30 (CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
- An optional C29 (CA) sign may be placed below the C9A (CA) sign.
- Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
TWO LANE CONVENTIONAL
HIGHWAYS**

NO SCALE

TCS-5

REVISIONS: x, x, x, x, x
 REVISOR: x
 DATE: x
 CHECKED BY: x
 DESIGNED BY: x
 CALCULATED BY: x
 FUNCTIONAL SUPERVISOR: x
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA
 Caltrans

LAST REVISION: 00-00-00 DATE PLOTTED => 19-MAR-2013 TIME PLOTTED => 05:59

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE
36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

LEGEND

- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADES

NOTES:

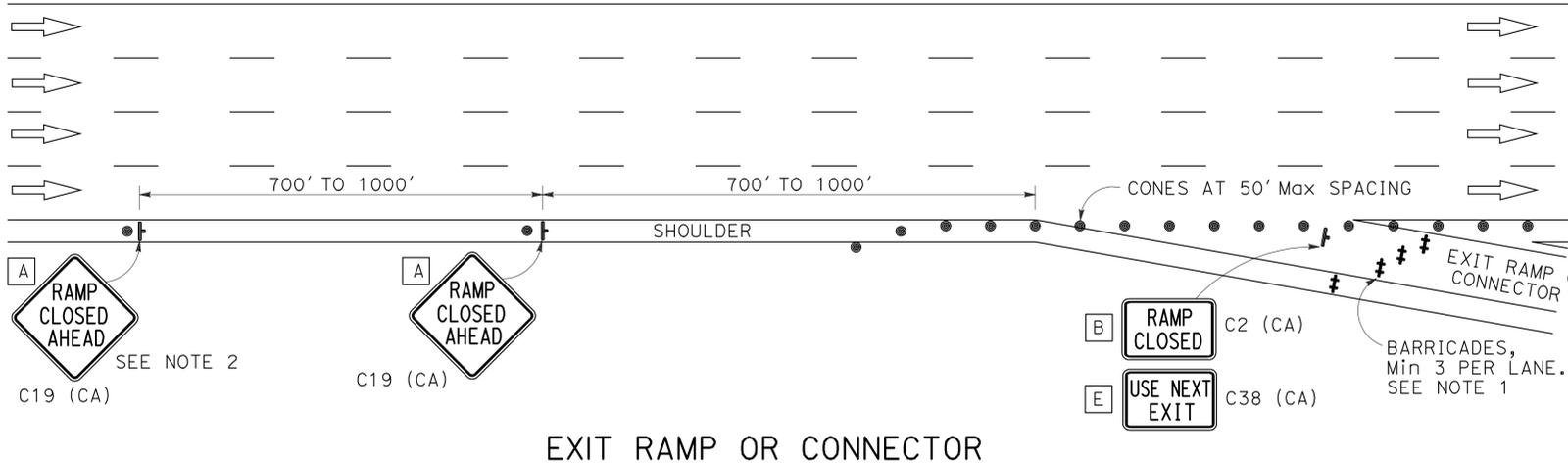
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
- Each advance C19 (CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color.
- All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" sign in the gore area shall be covered during ramp closures.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S, 79, 74, 10	Var	26	41

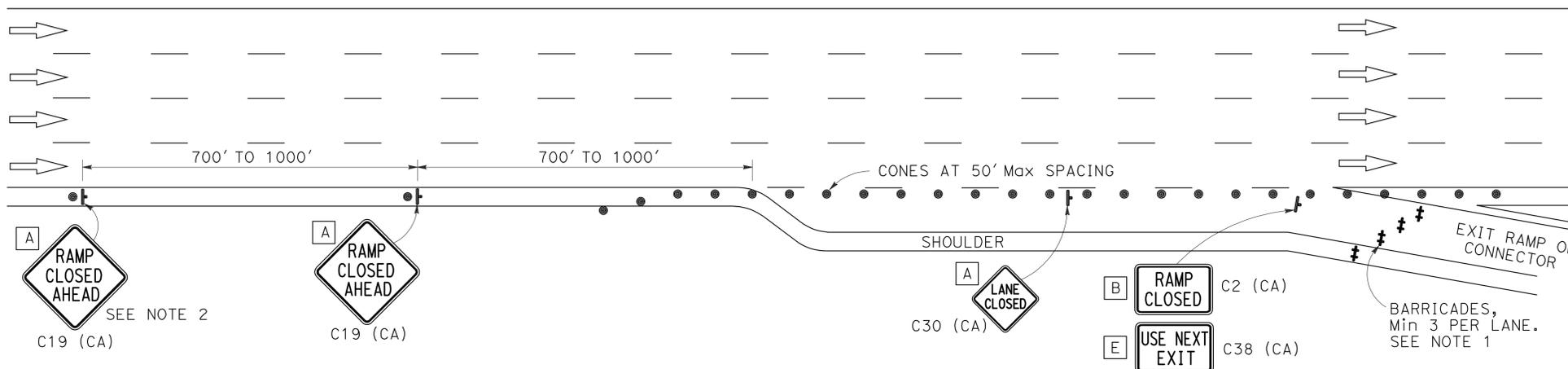
12-7-12
 REGISTERED CIVIL ENGINEER DATE
 3-18-13
 PLANS APPROVAL DATE

Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL

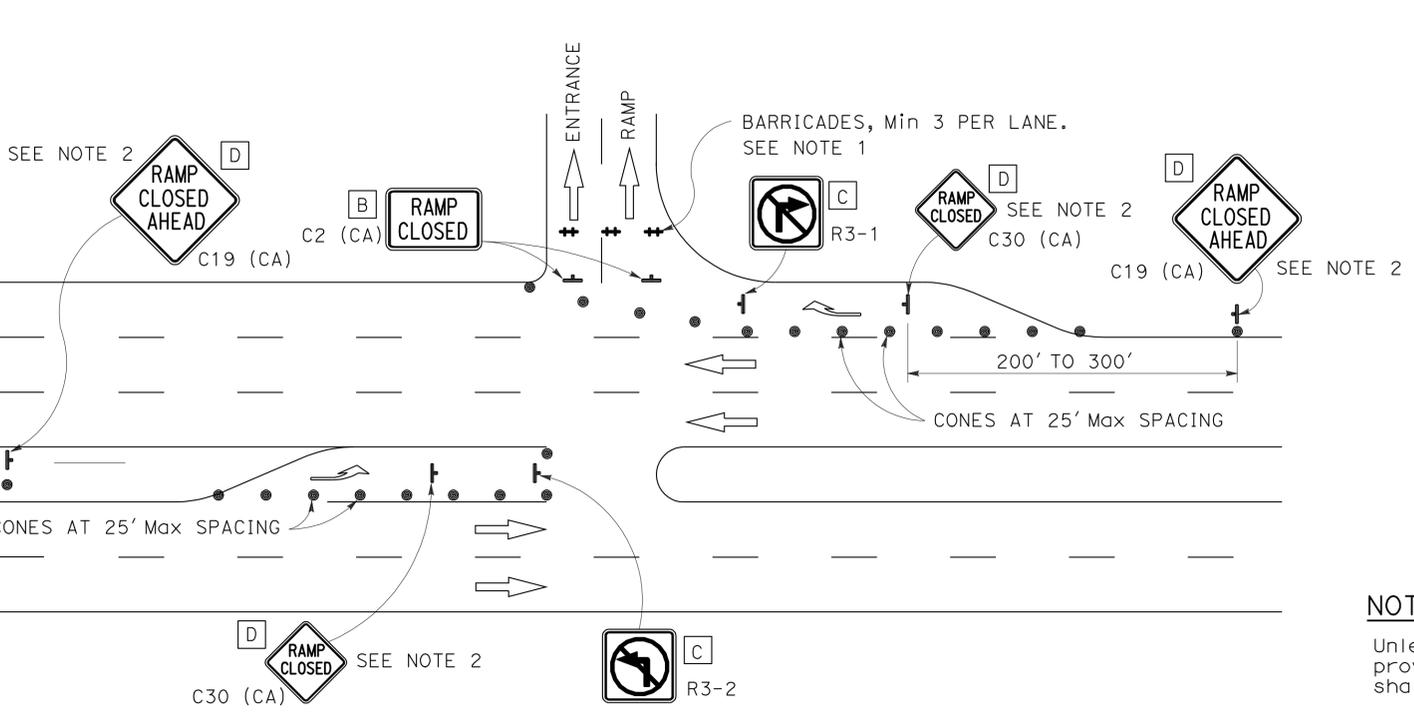
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



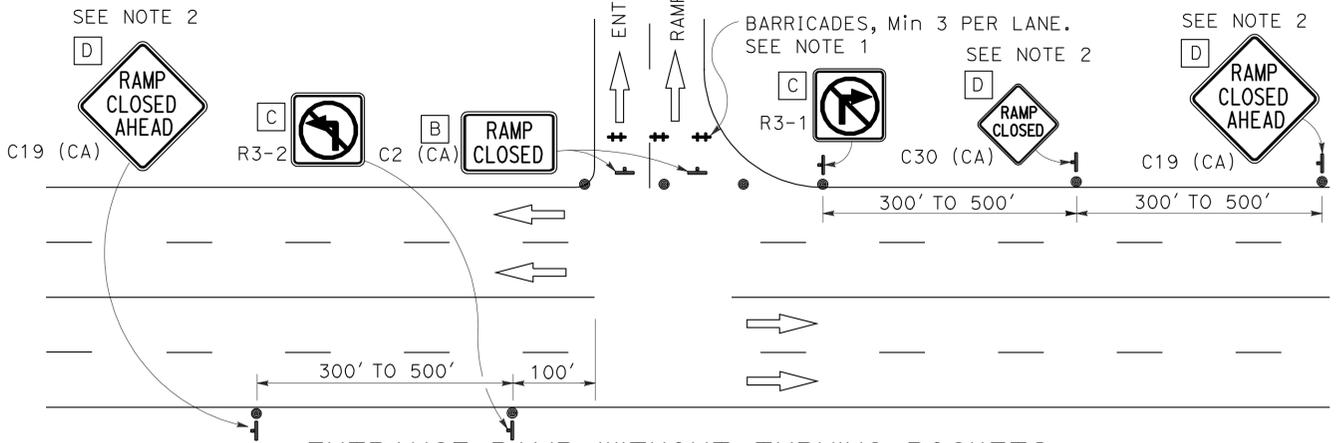
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
- California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans

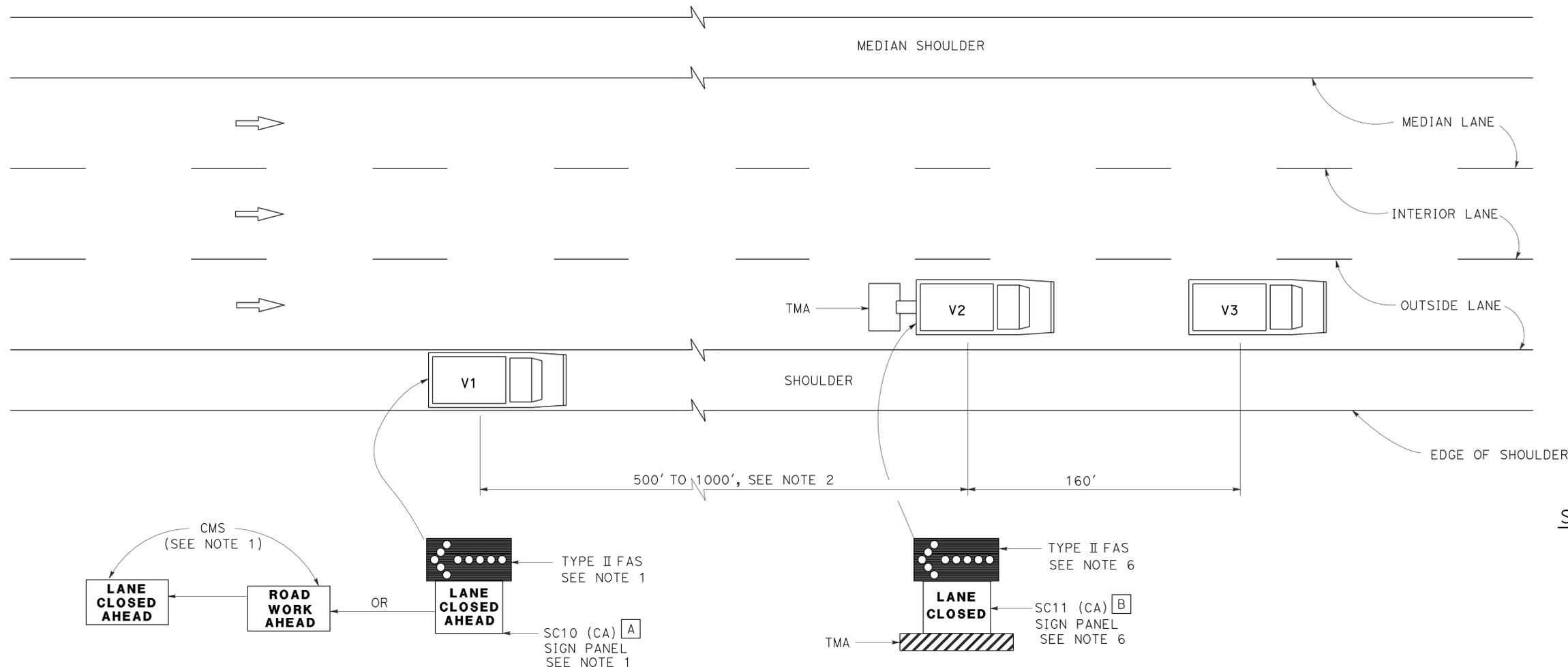
LAST REVISION DATE PLOTTED => 19-MAR-2013
 00-00-00 TIME PLOTTED => 05:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	27	41

12-7-12
 REGISTERED CIVIL ENGINEER DATE
 3-18-13
 PLANS APPROVAL DATE

Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL

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



SIGN PANEL SIZE (Min)

- A 66" x 36"
- B 54" x 42"

LEGEND

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

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

NOTES:

- Either a changeable message sign or a SC10 (CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1 and used with the SC10 (CA) sign panel. A Type II flashing arrow sign will not be required with the changeable message sign provided the flashing arrow sign symbol is displayed on the changeable message sign board. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "LANE CLOSED AHEAD" message and then the flashing arrow sign symbol. For median lane closure, the flashing arrow sign symbol shall be reversed with the arrowhead on the right.
- If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
- A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
- Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
- Vehicle-mounted sign panels shall be Type III, IV, VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
- Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
- 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.
- Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.
- When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required, and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR MOVING LANE CLOSURE
ON MULTILANE HIGHWAYS
(OUTSIDE AND MEDIAN LANES)**

NO SCALE

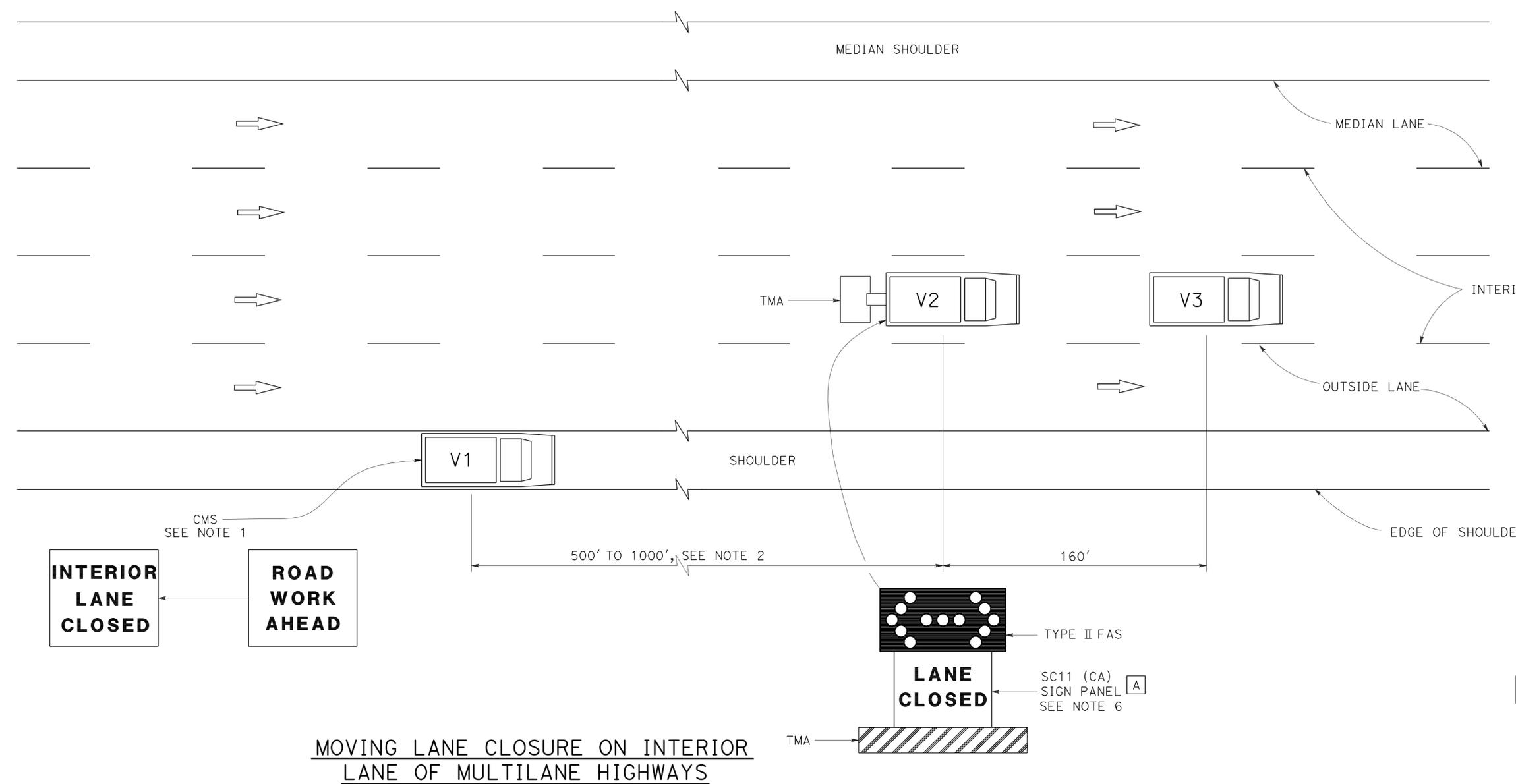
TCS-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans®
 FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	28	41

REGISTERED CIVIL ENGINEER
 12-7-12 DATE
 3-18-13 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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



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

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall be Type III, IV, VII, VIII, or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required, and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR MOVING LANE CLOSURE
ON MULTILANE HIGHWAYS
(INTERIOR LANES)**

NO SCALE

TCS-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans®
 FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED
 USERNAME => s121614
 DGN FILE => tcs16.dgn
 BORDER LAST REVISED 7/2/2010



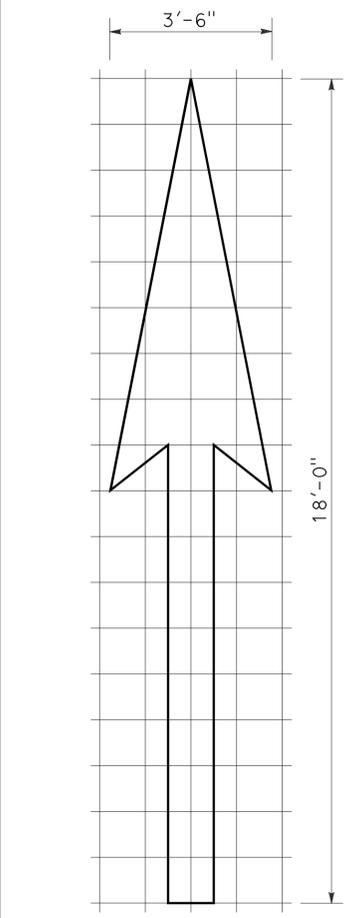
LAST REVISION DATE PLOTTED => 19-MAR-2013
 00-00-00 TIME PLOTTED => 05:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	29	41

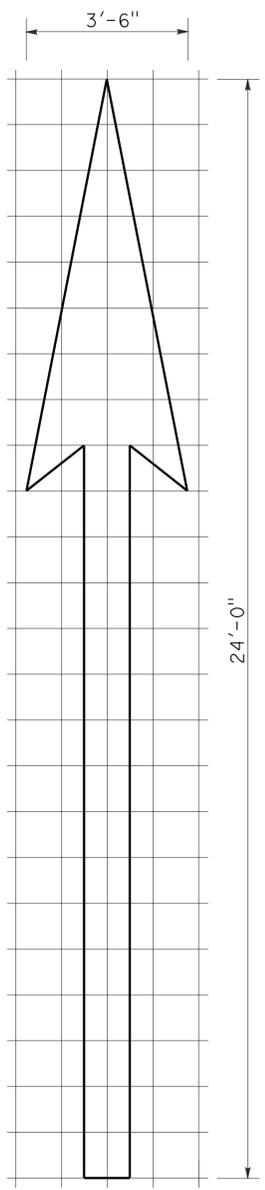
Roberto L. McLaughlin
 REGISTERED CIVIL ENGINEER
 April 20, 2012
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

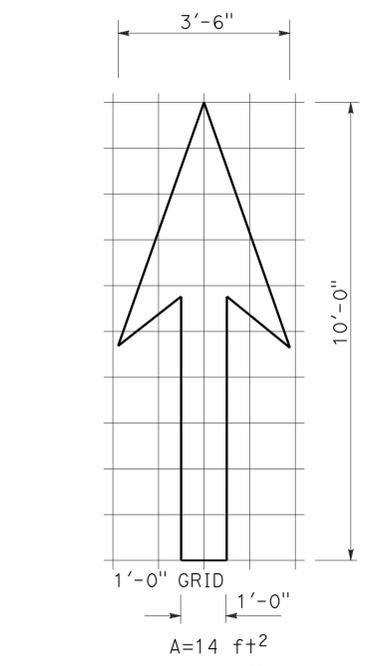
TO ACCOMPANY PLANS DATED 3-18-13



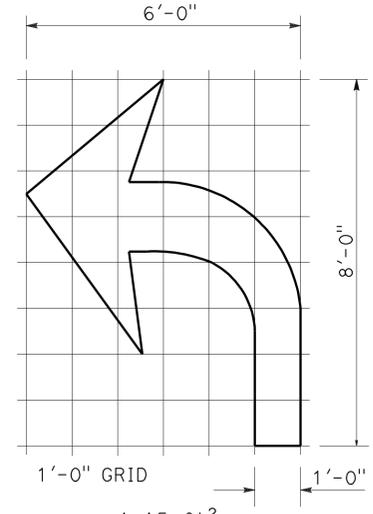
TYPE I 18'-0" ARROW
A=25 ft²



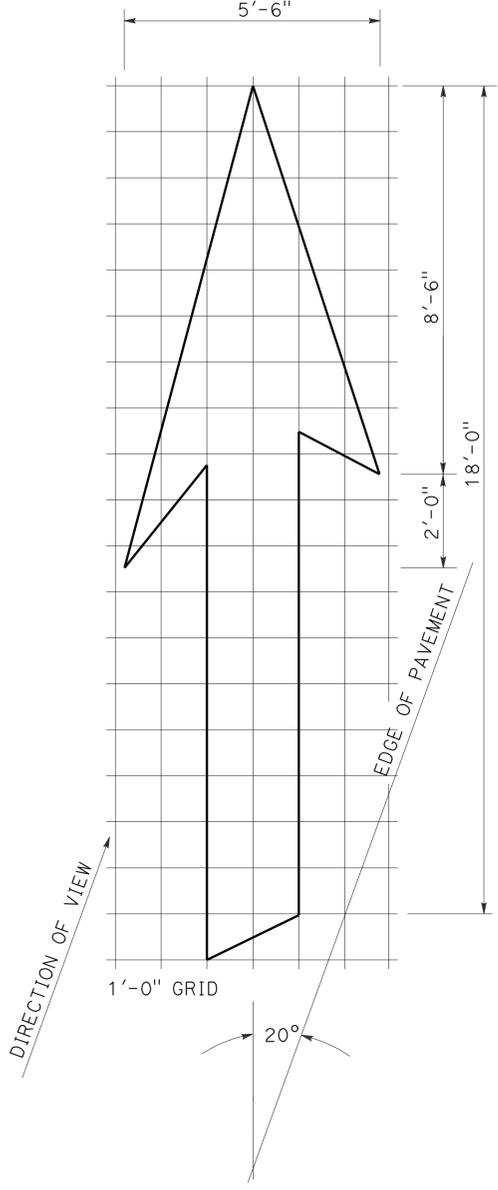
TYPE I 24'-0" ARROW
A=31 ft²



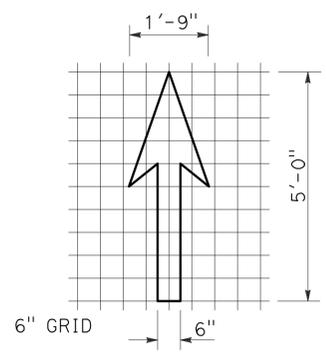
TYPE I 10'-0" ARROW
A=14 ft²



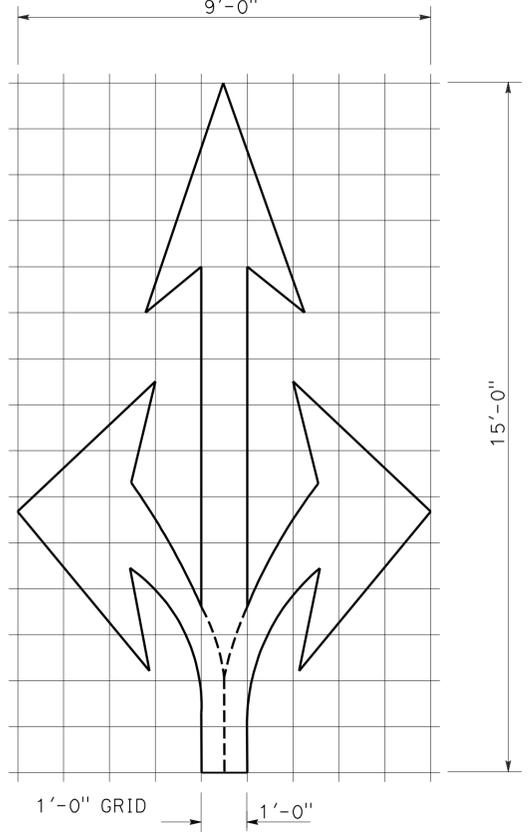
TYPE IV (L) ARROW
A=15 ft²
(For Type IV (R) arrow, use mirror image)



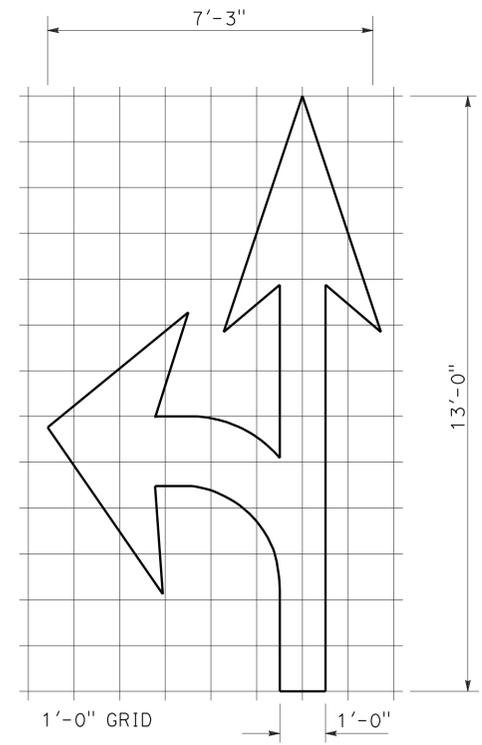
TYPE VI ARROW
A=42 ft²
Right lane drop arrow
(For left lane, use mirror image)



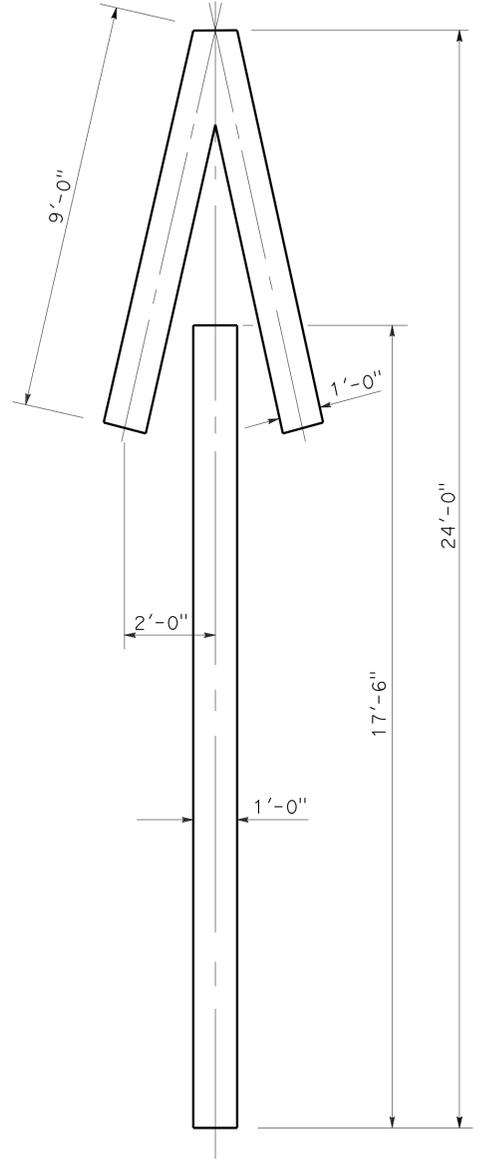
BIKE LANE ARROW
A=3.5 ft²



TYPE VIII ARROW
A=36 ft²



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



TYPE V ARROW
A=33 ft²

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

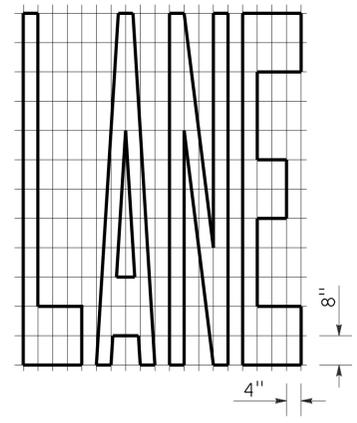
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

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

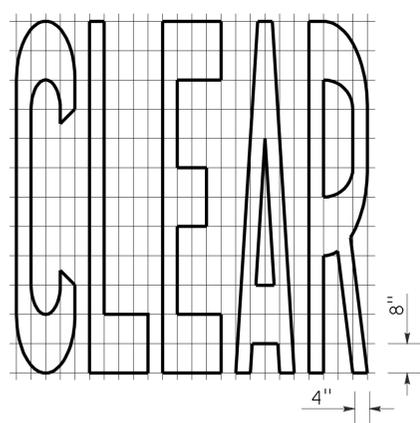
REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

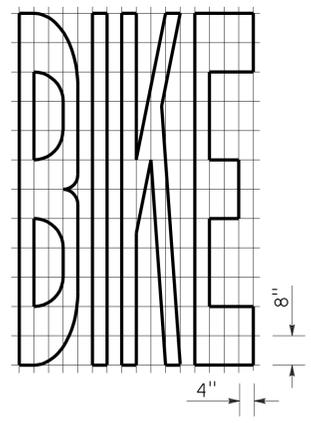
TO ACCOMPANY PLANS DATED 3-18-13



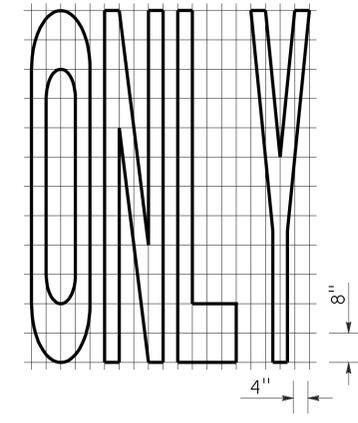
A=24 ft²



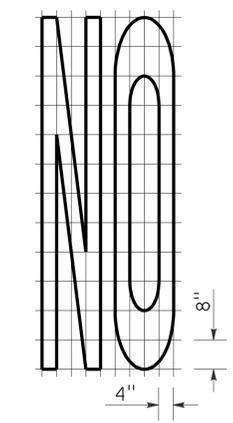
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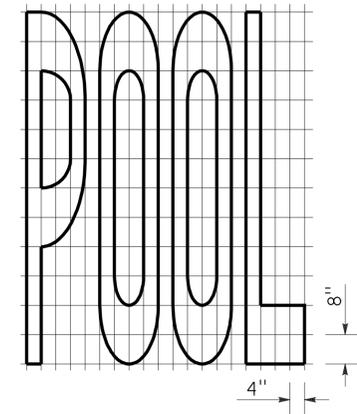
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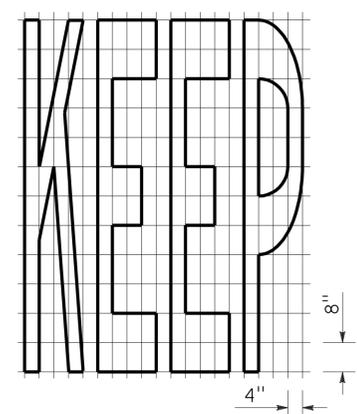
A=22 ft²



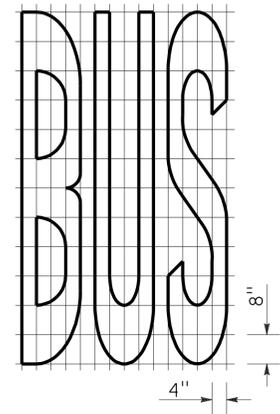
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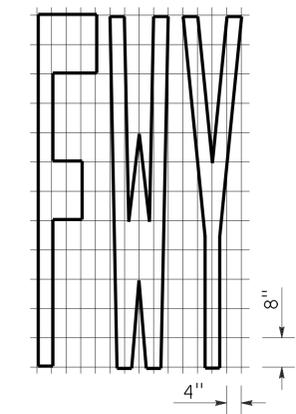
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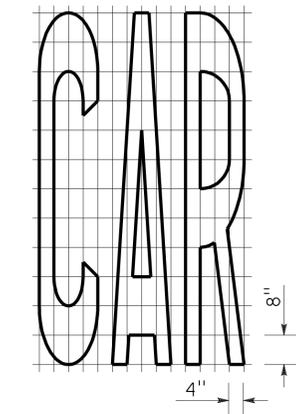
A=24 ft²



A=20 ft²

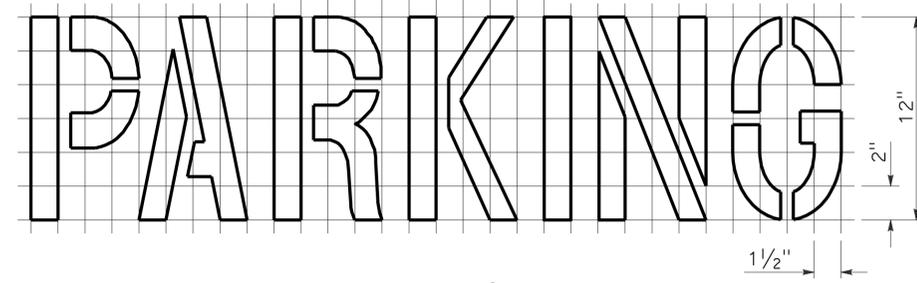
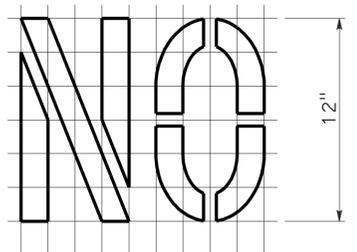


A=16 ft²

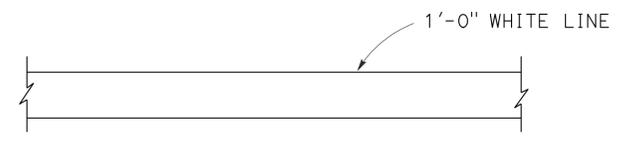


A=17 ft²

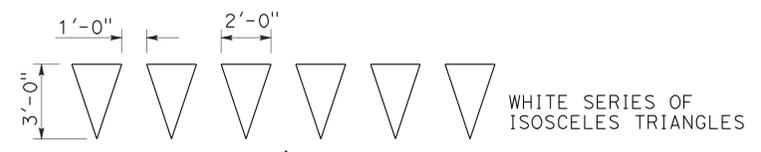
WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CLEAR	27	BUS	20
KEEP	24	ONLY	22
		FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



DIRECTION OF TRAVEL
YIELD LINE

NOTES:

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

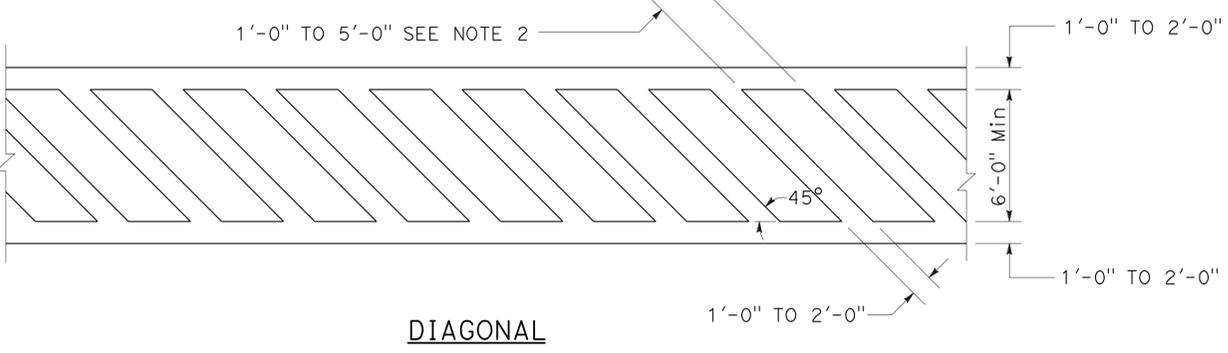
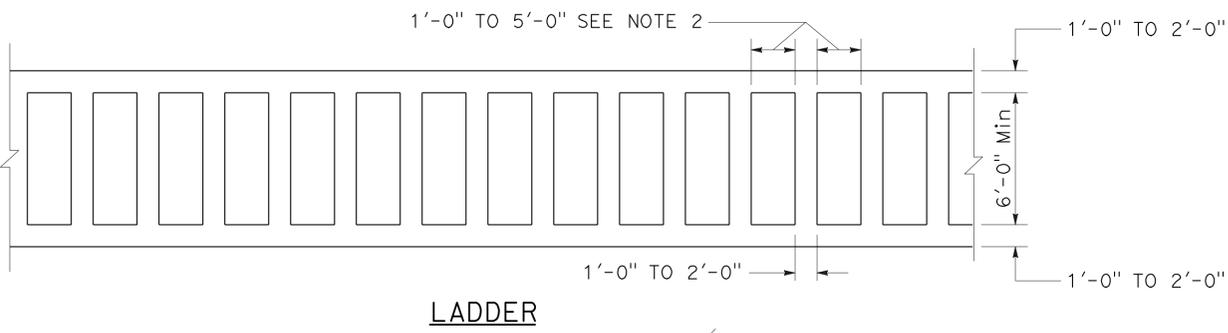
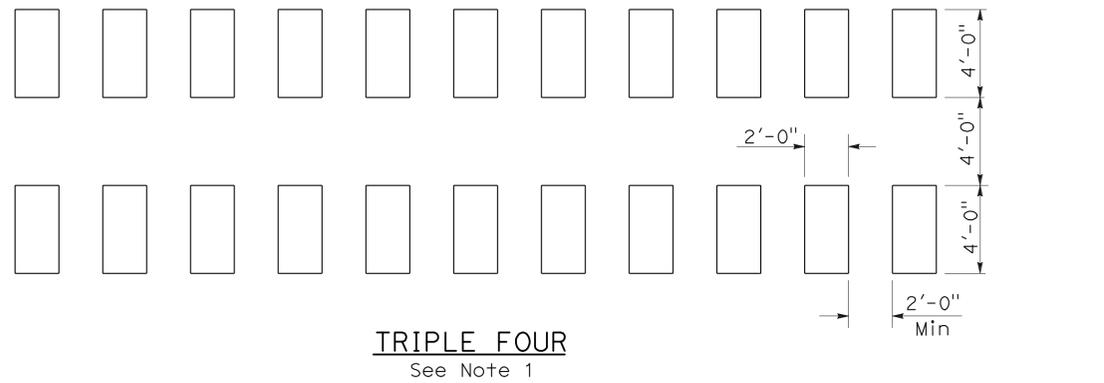
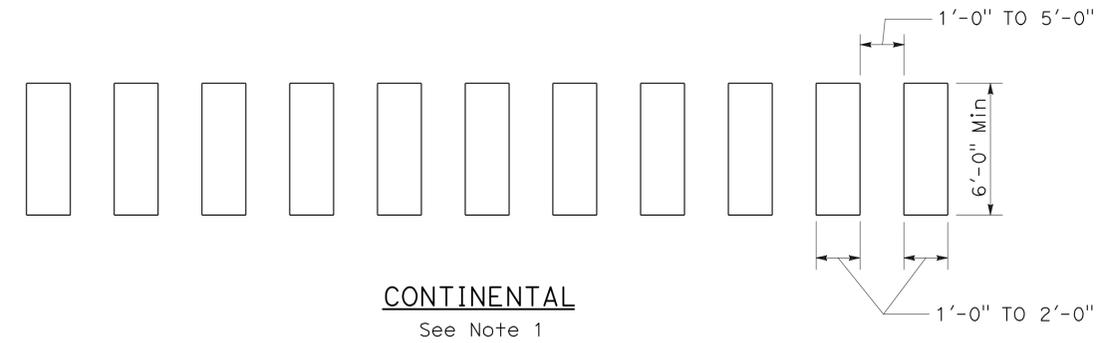
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES
 NO SCALE

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S, 79, 74, 10	Var	31	41

Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 July 20, 2012
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

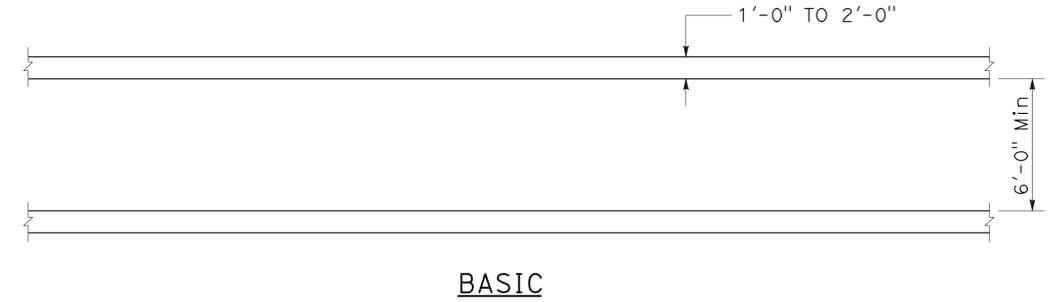
TO ACCOMPANY PLANS DATED 3-18-13



HIGHER VISIBILITY CROSSWALKS

NOTES:

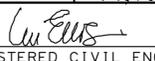
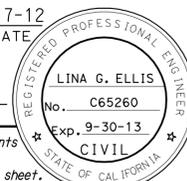
1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.



BASIC

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

RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE
 STANDARD PLANS BOOK DATED 2010.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	865,79, 74,10	Var	32	41
 REGISTERED CIVIL ENGINEER DATE 10-17-12					
PLANS APPROVAL DATE 3-18-13			The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN No. 1
2	GENERAL PLAN No. 2
3	GENERAL PLAN No. 3
4	GENERAL PLAN No. 4
5	GENERAL PLAN No. 5
6	JOINT SEAL TABLE AND DETAILS
7	DECK REPAIR TABLE AND DETAILS
8	QUANTITIES
9	QUANTITIES
10	STRUCTURE APPROACH TYPE R(30D) DETAILS

STANDARD PLANS DATED 2010

SHEET No.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
B6-21	JOINT SEALS

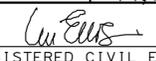
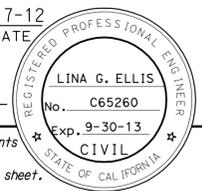
DESCRIPTION									QUANTITIES												
LOCATION	ROUTE	BRIDGE NAME	BRIDGE NUMBER	POST MILE	BRIDGE LENGTH (FT)	ROAD WAY WIDTH (FT)	SKEW (DEG)	DESCRIPTION OF WORK (SEE GENERAL PLAN NO.2)	PREPARE CONCRETE BRIDGE DECK SURFACE (SF)	TREAT BRIDGE DECK (SF)	FURNISH BRIDGE DECK TREATMENT MATERIAL (GAL)	INJECT CRACK (EPOXY) (LF)	PAINT BRIDGE NAME & NUMBER (EA)	CONCRETE INVERT PAVING (LF)	DRILL AND BOND DOWELS (LF)	AGGREGATE BASE, APPROACH SLAB (CY)	CONCRETE APPROACH SLAB TYPE R (CY)	PAVING NOTCH EXPENSION (CF)	SEE JOINT SEAL TABLE FOR WORK	REPAIR SPALLED SURFACE AREA (SF)	
①	10	MIDDLE FORK SAN TIMOTEO CREEK	56-0215L	R5.71	102.4	77	25	1, 3, 7	7885	7885	88		2								
②	10	W10-W60 CONNECTOR OC	56-0452F	6.67	369.8	44	58	2, 7				50	2								
③	10	PENNSYLVANIA AVE UC	56-0433	8.21	80.6	152	1.5	1, 1D, 3, 5, 7, 8	13452	13452	149		2			3	27	18	X		
④	10	HIGHLAND SPRINGS AVE UC	56-0432	9.31	80.6	152	3.6	1, 1A, 3, 5, 7	1440	1440	16		1						X		
⑤	10	SUNSET AVE UC	56-0431	11.33	82.1	152	11.3	3, 4, 5, 7					2						X	8	
⑥	10	22ND STREET UC	56-0430	R11.96	79.2	152	0.5	1B, 3, 5, 7, 9	720	720	8		2			2	14	9	X		
⑦	10	ROUTE 10/243 SEPARATION	56-0323	12.85	63.5	144	0.2	1C, 3, 4, 5, 7	8640	8640	96		2						X	1	
⑧	10	HARGRAVE STREET UC	56-0324	13.86	63.5	144	0.1	1C, 3, 5, 7	8640	8640	96		2						X		
⑨	10	SAN GORGONIO WASH	56-0003	R16.14	286.6	152	52	3, 5, 7, 10					2			6	54	36	X		
⑩	10	SAN GORGONIO OVERFLOW	56-0351	R16.23	37.7	152	37	5, 11								2	14	9	X		
⑪	10	EAST CABAZON DITCH	56-0562	R19.41	24	271	30	6						271	137						
⑫	10	44TH AVE UC	56-0613L	R56.57	180.8	51	46.6	1, 3, 5, 7	9221	9221	103		1						X		
⑬	10	44TH AVE UC	56-0613R	R56.57	179.3	51	46.6	5, 7, 12					1			6	54	36	X		
⑭	10	COACHELLA CANAL	56-0079R	R60.40	80	39	28	1, 3, 7	3120	3120	35		1								

* = No Skew

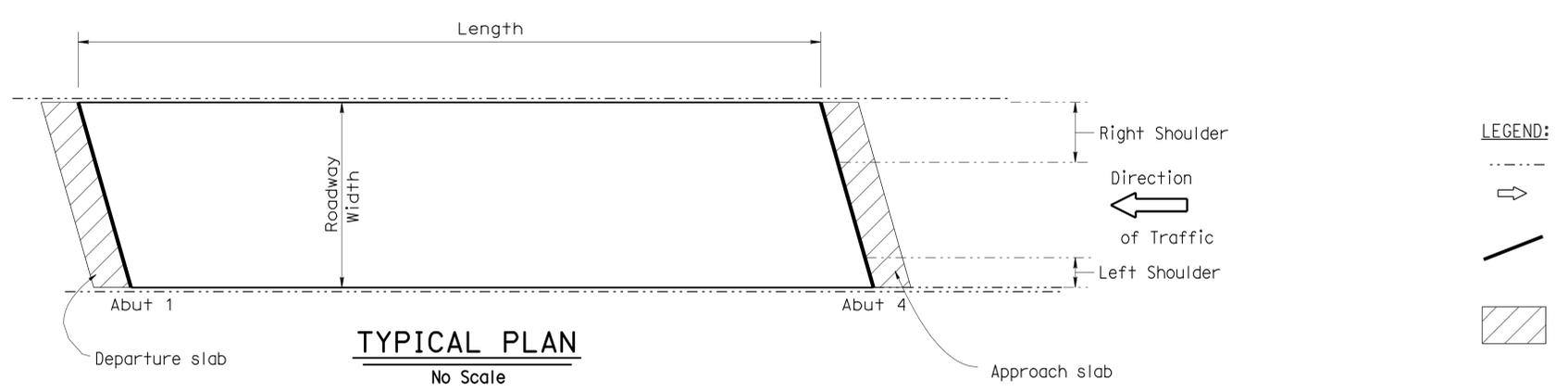
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

 DESIGN ENGINEER 10-17-12	DESIGN	BY L. Ellis	CHECKED A. Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	ROUTE 10 BRIDGES GENERAL PLAN NO.1		
	DETAILS	BY M. Yu	CHECKED L. Ellis	LAYOUT	BY M. Yu			CHECKED L. Ellis		Varies	
	QUANTITIES	BY L. Ellis	CHECKED A. Kushkaki	SPECIFICATIONS	BY			PLANS AND SPECS COMPARED		Varies	
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 3486 PROJECT NUMBER & PHASE: 0812000133	CONTRACT NO.: 08-OR6401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES: 1-7-13, 10-2-12, 10-11-12	SHEET 1 OF 10

USERNAME => s121614 DATE PLOTTED => 19-MAR-2013 TIME PLOTTED => 05:56

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	86S,79,74,10	Var	33	41
 REGISTERED CIVIL ENGINEER			10-17-12	DATE	
PLANS APPROVAL DATE			3-18-13		
					
<small>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.</small>					

- NOTES:
- Prepare concrete bridge deck and treat bridge deck with high molecular weight methacrylate.
 - Prepare eastbound and westbound concrete approach slabs at lane 3 & 4, and treat slabs with high molecular weight methacrylate.
 - Prepare eastbound concrete approach slab at lane 3 & 4, and treat slab with high molecular weight methacrylate.
 - Prepare concrete approach and departure slabs, and treat slabs with high molecular weight methacrylate.
 - Prepare eastbound concrete approach slab, and treat slabs with high molecular weight methacrylate.
 - Epoxy inject to seal soffit and exterior girder faces cracks.
 - Per the direction of the engineer, remove unsound concrete, clean rebar and patch deck/joint spalls.
 - Per the direction of the engineer, remove unsound concrete clean rebar and patch concrete barrier spalls.
 - See "JOINT SEAL DETAILS" sheet for joint work.
 - Clean the surface of cell #2, drill and bond 1/2" diameter dowels (6" deep) at 3 feet o.c. each way into the existing floor slab with epoxy. Install #4 rebar at 12" o.c. each way and 3" above existing floor. Construct the 6" thick concrete slab with 3.5 ksi concrete over the existing concrete floor surface. For location of work, See "GENERAL PLAN NO.5".
 - Paint the bridge name and number on bridge rail.
 - Remove existing eastbound departure slabs on lane #3 and #4, and replace with new departure slabs. For location of work, See "GENERAL PLAN NO. 4".
 - Remove existing eastbound approach slabs on lane #2, and replace with new approach slabs. For location of work, See "GENERAL PLAN NO. 4".
 - Remove existing eastbound departure slabs on lane #2 to lane #4 and westbound departure slab on lane #4 and replace with new approach slabs. For location of work, See "GENERAL PLAN NO. 4".
 - Remove existing eastbound approach slab on lane #4 and replace with new approach slab. For location of work, See "GENERAL PLAN NO. 4".
 - Remove existing departure slabs on lane #1 to lane #4 and replace with new departure slabs. For location of work, See "GENERAL PLAN NO. 5".



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

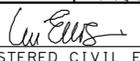
 DESIGN ENGINEER 10-17-12	DESIGN	BY L. Ellis	CHECKED A. Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	ROUTE 10 BRIDGES		
	DETAILS	BY M. Yu	CHECKED L. Ellis	LAYOUT	BY M. Yu			CHECKED L. Ellis	Varies	GENERAL PLAN NO. 2	
	QUANTITIES	BY L. Ellis	CHECKED A. Kushkaki	SPECIFICATIONS	BY			PLANS AND SPECS COMPARED	Varies		
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 3486	CONTRACT NO.: 08-0R6401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
								REVISION DATES	SHEET 2	OF 10	

USERNAME => s121614 DATE PLOTTED => 19-MAR-2013 TIME PLOTTED => 05:57

NOTES:

- 1 Prepare concrete bridge deck and treat bridge deck with high molecular weight methacrylate.
- 2 Per the direction of the engineer, remove unsound concrete, clean rebar and patch deck/joint spalls.
- 3 Prepare concrete bridge deck surface and place 3/4" polyester concrete overlay.
- 4 See "JOINT SEAL DETAILS" sheet for joint work.
- 5 Stencil the bridge name and number on bridge rail.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	86S, 79, 74, 10	Var	34	41

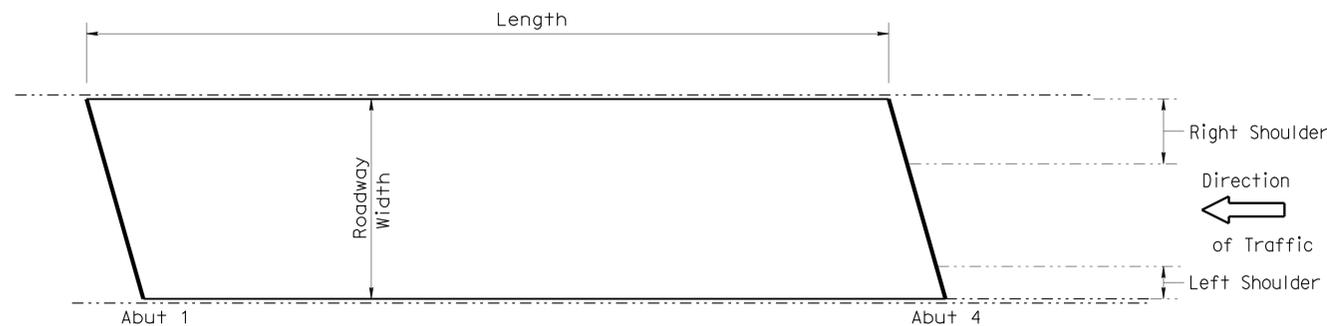
 10-17-12
 REGISTERED CIVIL ENGINEER DATE

3-18-13
 PLANS APPROVAL DATE

LINA G. ELLIS
 No. C65260
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA

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DESCRIPTION									QUANTITIES								
LOCATION	ROUTE	BRIDGE NAME	BRIDGE NUMBER	POST MILE	BRIDGE LENGTH (FT)	ROADWAY WIDTH (FT)	SKEW (DEG)	DESCRIPTION OF WORK (SEE "NOTES" THIS SHEET)	PREPARE CONCRETE BRIDGE DECK SURFACE (SF)	TREAT BRIDGE DECK (SF)	FURNISH BRIDGE DECK TREATMENT MATERIAL (GAL)	FURNISH POLYESTER CONCRETE OVERLAY (CF)	PLACE POLYESTER CONCRETE OVERLAY (SF)	PAINT BRIDGE NAME & NUMBER (EA)	SEE JOINT SEAL TABLE FOR WORK	REMOVE UNSOUND CONCRETE (CF)	RAPID SETTING CONCRETE PATCH (CF)
15	10	WEST CACTUS WASH	56-0460L	R72.93	82	39.66	0	1,2,5	3252	3252	36			1			
16	10	WEST CACTUS WASH	56-0460R	R72.95	82	39.66	0	2,3,5	3252			244	3252	1		8	8
17	10	CACTUS WASH	56-0461L	R73.18	178.6	39.66	40	2,3,5	7083			531	7083	1		18	18
18	10	EAST CACTUS WASH	56-0462L	R73.45	112.4	39.66	33	2,3,5	4458			334	4458	1		11	11
19	10	EAST CACTUS WASH	56-0462R	R73.47	112.4	39.66	33	2,3,5	4458			334	4458	1		11	11
20	10	BURIED MOUNTAIN WASH	56-0212R	R78.54	39.3	39.66	30	2,3,5	1559			117	1559	1		4	4
21	10	SEVENTH AVENUE UC	56-0597L	R153.16	125.33	40	0	1,2	5013	5013	56						
22	74	HORSE CREEK	56-0185	75.66	75.25	40	37	1,2,5	3010	3010	34			2			
23	79	WINCHESTER ROAD OVERCROSSING	56-0656	R2.28	281	118	13	1,2,5	33158	33158	368			2			
24	79	TEMECULA CREEK	56-0188	7.07	199.4	32	29	1,2	6381	6381	71						
25	79	GILMAN SPRINGS ROAD UC	56-0782	M33.78	153	78	7	4,5						2	X		
26	79	CENTRAL BEAUMONT OH	56-0561	40.33	147	69	3	1,2,5	10143	10143	113			2			
27	86S	CVWD PIPELINE UC	56-0780L	R11.94	104	39	45	1,2,4,5	4056	4056	45			1	X		
28	86S	CVWD PIPELINE UC	56-0780R	R11.96	104	39	45	1,2,4,5	4056	4056	45			1	X		



- LEGEND:
- Indicates existing structure
 - Indicates direction of traffic.
 - /— Indicates location of clean expansion joint and placement of new joint seal. See "joint seal details" sheet.

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

TYPICAL PLAN
 No Scale

 DESIGN ENGINEER 10-17-12	DESIGN	BY L. Ellis	CHECKED A. Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	ROUTE 10 BRIDGES GENERAL PLAN NO. 3	
	DETAILS	BY M. Yu	CHECKED L. Ellis	LAYOUT	BY M. Yu			CHECKED L. Ellis		Varies
	QUANTITIES	BY L. Ellis	CHECKED A. Kushkaki	SPECIFICATIONS	BY			PLANS AND SPECS COMPARED		Varies

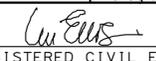
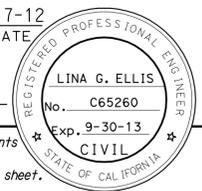
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

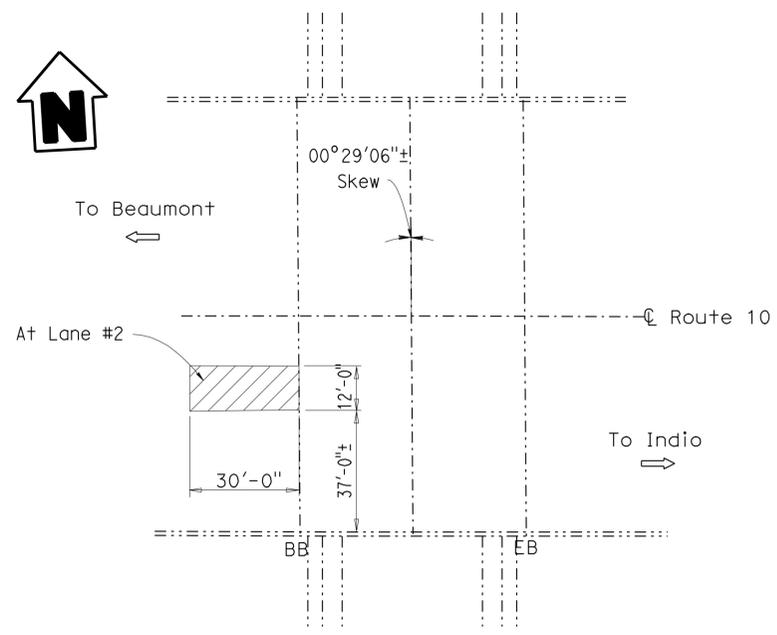
CU 3486 PROJECT NUMBER & PHASE: 0812000133 CONTRACT NO.: 08-0R6401 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
6-26-12 10-2-12 10-11-12	3	10

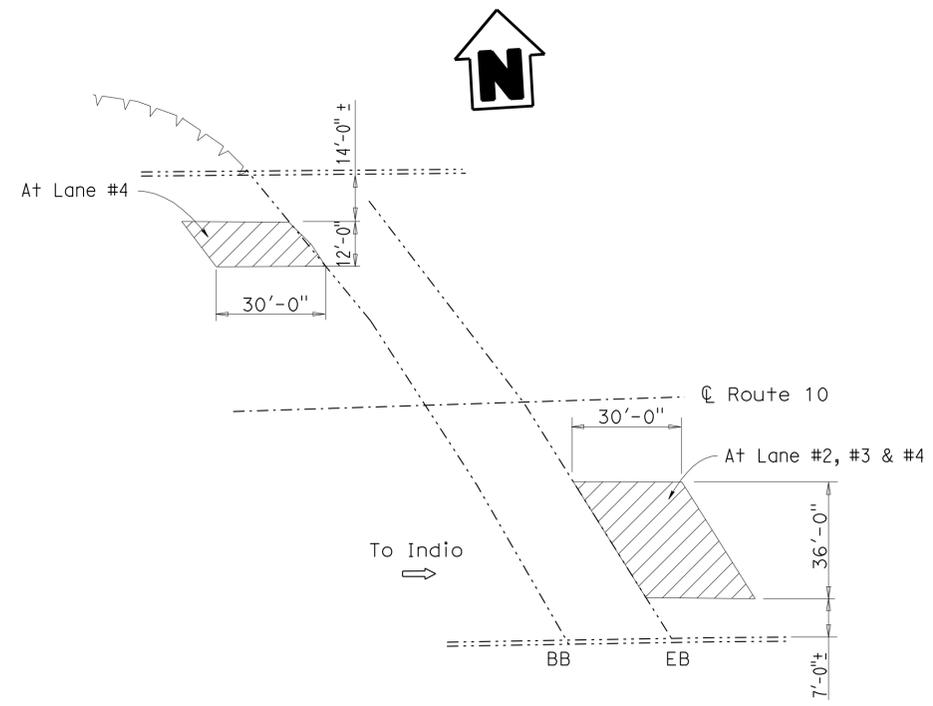
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USERNAME => s121614 DATE PLOTTED => 19-MAR-2013 TIME PLOTTED => 06:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	86S, 79, 74, 10	Var	35	41
 REGISTERED CIVIL ENGINEER DATE 10-17-12					
PLANS APPROVAL DATE 3-18-13					
<small>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.</small>					

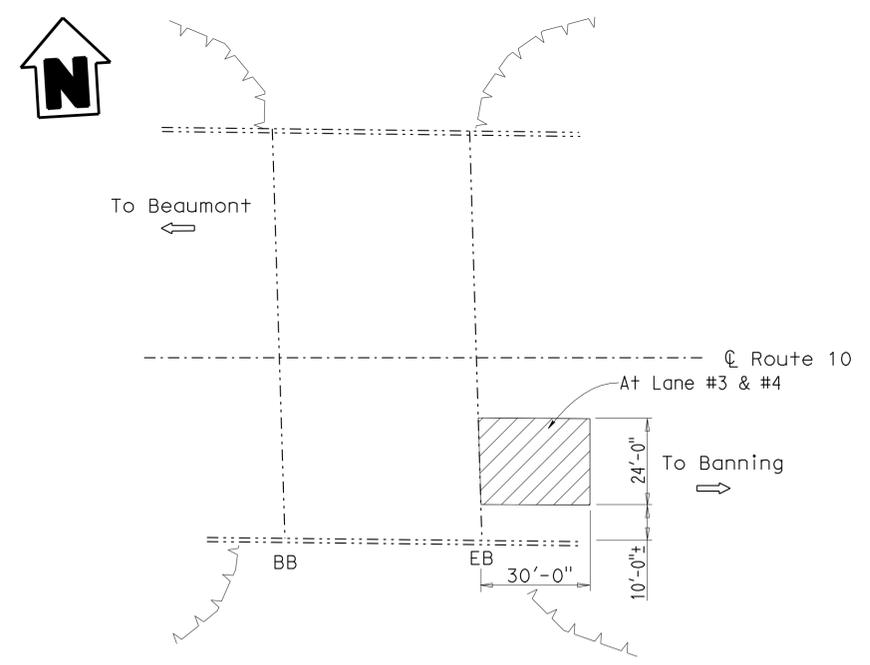


⑥ **22ND STREET UC**
BR. No. 56-0430, Rte 10, PM R11.96
NO SCALE

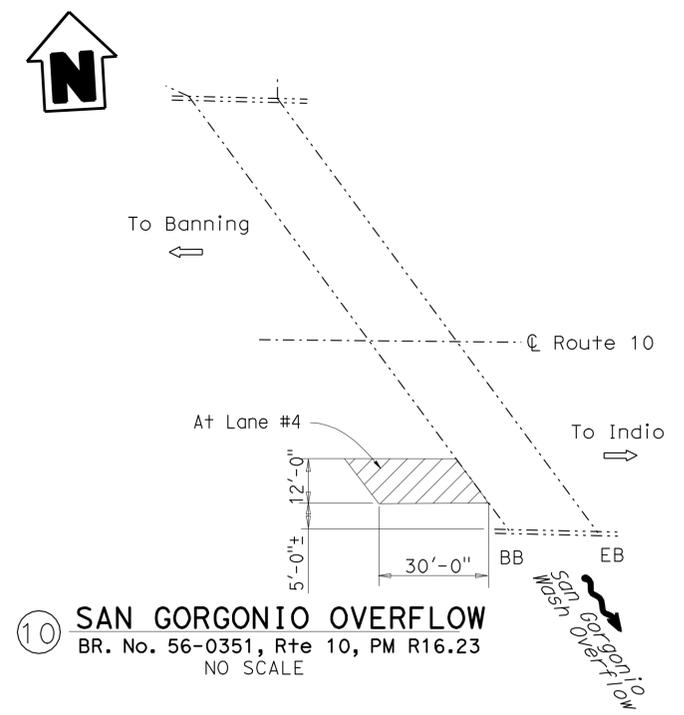


⑨ **SAN GORGONIO WASH**
BR. No. 56-0003, Rte 10, PM R16.14
NO SCALE

LEGEND:
 - - - - - Indicates existing structure
 → Indicates direction of traffic.
 ▨ Indicates location of removal and replacement of approach and Departure slabs.



③ **PENNSYLVANIA AVE UC**
BR. No. 56-0433, Rte 10, PM 8.21
NO SCALE



⑩ **SAN GORGONIO OVERFLOW**
BR. No. 56-0351, Rte 10, PM R16.23
NO SCALE

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

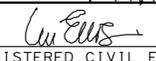
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	DETAILS	BY M. Yu	CHECKED L. Ellis	LAYOUT	BY M. Yu
	QUANTITIES	BY L. Ellis	CHECKED A. Kushkaki	SPECIFICATIONS	BY

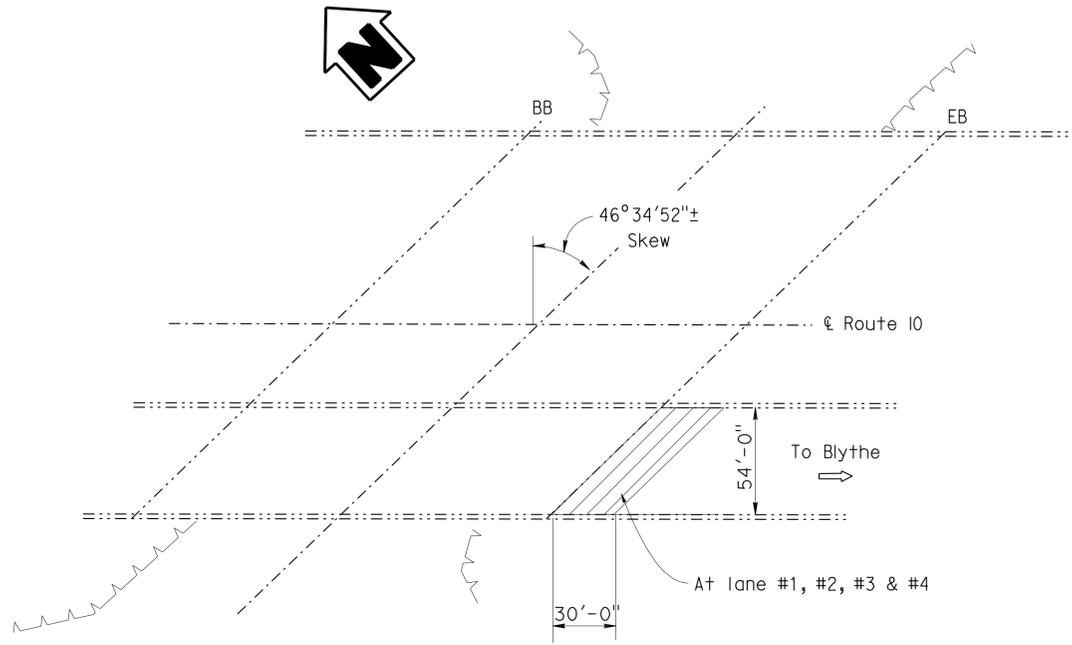
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	Varies	ROUTE 10 BRIDGES GENERAL PLAN NO. 4
POST MILE	Varies	
CONTRACT NO.:	08-0R6401	

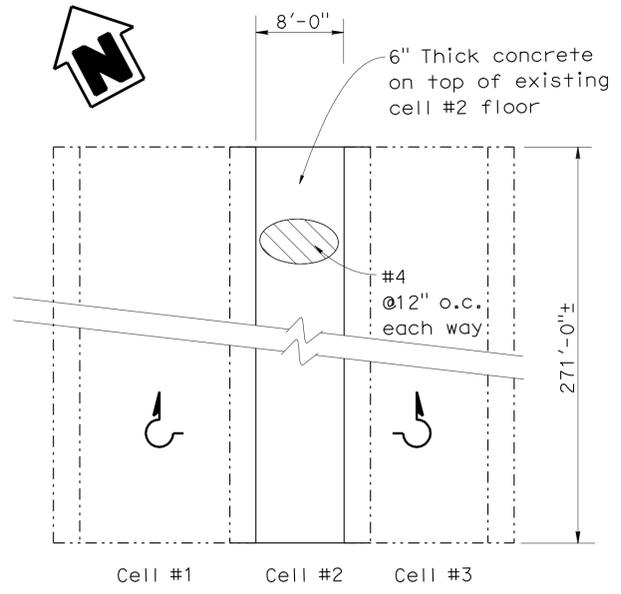
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USERNAME => s121614 DATE PLOTTED => 19-MAR-2013 TIME PLOTTED => 05:57

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	86S, 79, 74, 10	Var	36	41
 REGISTERED CIVIL ENGINEER DATE 10-17-12					
PLANS APPROVAL DATE 3-18-13 <small>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.</small>					

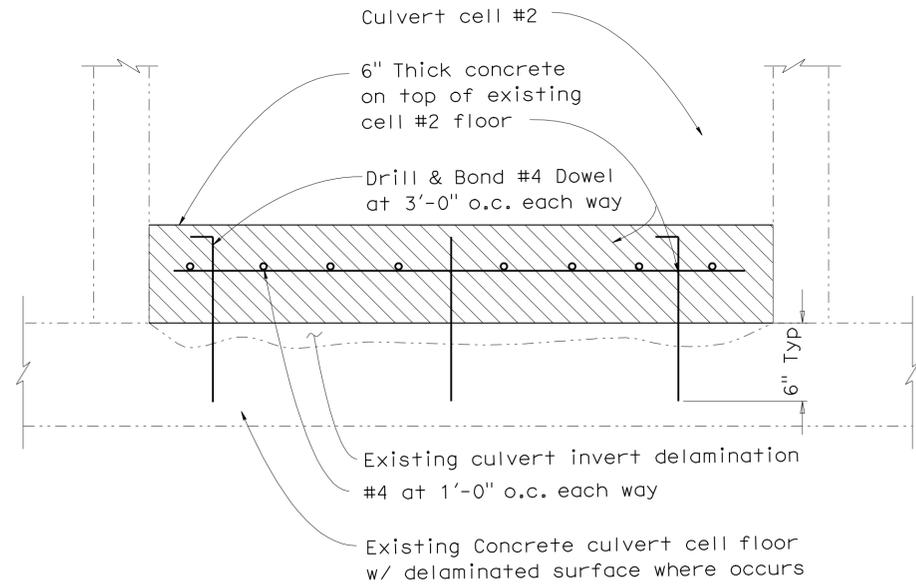


13 **44TH AVE UC**
BR. No. 56-0613R, Rte 10, PM R56.57
NO SCALE



CONCRETE BOX CULVERT PLAN
NO SCALE

- LEGEND:**
- Indicates existing structure
 - ➔ Indicates direction of traffic.
 -  Indicates location of Approach & Departure slab.
 -  Indicates new concrete slab.



SECTION
NO SCALE

11 **EAST CABAZON DITCH**
BR. No. 56-0562, Rte 10, PM R19.41

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

 DESIGN ENGINEER 10-17-12	DESIGN	BY L. Ellis	CHECKED A. Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY M. Yu	CHECKED L. Ellis	LAYOUT	BY M. Yu
	QUANTITIES	BY L. Ellis	CHECKED A. Kushkaki	SPECIFICATIONS	BY

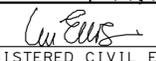
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. Varies
POST MILE Varies

ROUTE 10 BRIDGES
GENERAL PLAN NO. 5

USERNAME => s121614 DATE PLOTTED => 19-MAR-2013 TIME PLOTTED => 05:57

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	86S, 79, 74, 10	Var	37	41
			10-17-12		
REGISTERED CIVIL ENGINEER			DATE		
3-18-13			PLANS APPROVAL DATE		
LINA G. ELLIS			No. C65260		
Exp. 9-30-13			CIVIL		
<small>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.</small>					

JOINT SEAL TABLE

BRIDGE LOCATION NO.	BRIDGE NUMBER	BRIDGE NAME	LOCATION	Min. "MR" (in)	APPROX. LENGTH (ft)	EXISTING WATERSTOP	APPROX. DEPTH TO CLEAN EXPANSION JOINT (in)	CLEAN EXPANSION JOINTS (LF)
③	56-0433	PENNSYLVANIA AVE UC	Abut 1	1	155	No	12	155
			Abut 2	1	155	No	12	131
④	56-0432	HIGHLAND SPRINGS AVE UC	Abut 1	1	155	No	12	155
			Abut 2	1	155	No	12	155
⑤	56-0431	SUNSET AVE UC	Abut 1	1	158	No	12	158
			Abut 2	1	158	No	12	158
⑥	56-0430	22ND STREET UC	Abut 1	1	155	No	12	143
			Abut 2	1	155	No	12	155
⑦	56-0323	ROUTE 10/243 SEPARATION	Abut 1	1	147	No	12	147
			Abut 2	1	147	No	12	147
⑧	56-0324	HARGRAVE STREET UC	Abut 1	1	147	No	12	147
			Abut 2	1	147	No	12	147
⑨	56-0003	SAN GORGONIO WASH	Abut 1	1½	249	No	12	185
			Abut 9	1½	249	No	12	249
⑩	56-0351	SAN GORGONIO OVERFLOW	Abut 1	1	261	No	12	246
			Abut 3	1	261	No	12	261
⑫	56-0613L	44TH AVE UC	Abut 1	1	77	No	12	77
			Abut 2	1	77	No	12	77
⑬	56-0613R	44TH AVE UC	Abut 1	1	77	No	12	5
			Abut 2	1	77	No	12	77
⑮	56-0782	GILMAN SPRINGS ROAD UC	Abut 1	1½	82	No	12	82
			Abut 2	1½	82	No	12	82
⑰	56-0780L	CVWD PIPELINE UC	Abut 1	1	58	No	12	58
			Abut 4	1	58	No	12	58
⑱	56-0780R	CVWD PIPELINE UC	Abut 1	1	58	No	12	58
			Abut 4	1	58	No	12	58

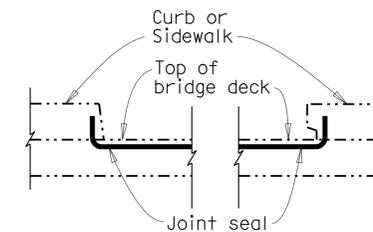
JOINT SEAL NOTES:

The following note applies to JOINT SEAL TYPE A:

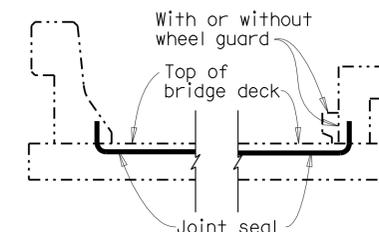
Install Type A joint seal 3" up into curb or rail on the low side of the deck where joint matches sidewalk, curb, or barrier rail joint. For details not shown, see "DECK REPAIR DETAILS" sheet.

The following notes apply to JOINT SEAL TYPE B:

- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
- W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
- Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches sidewalk, curb or barrier rail joint.



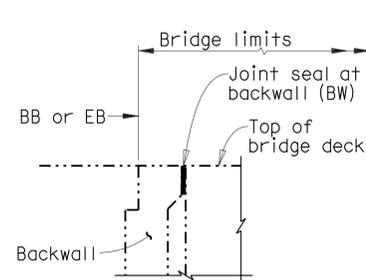
SIDEWALK



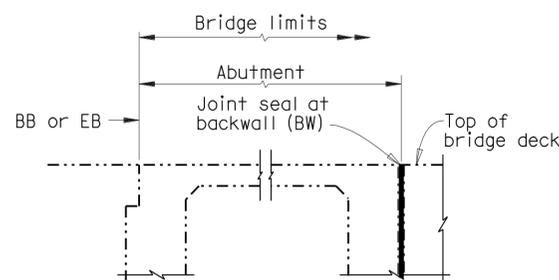
BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

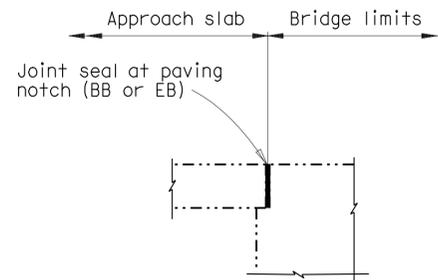
Details shown for illustration purposes only.
For use only where deck joint matches sidewalk, curb or barrier rail joint.
NO SCALE



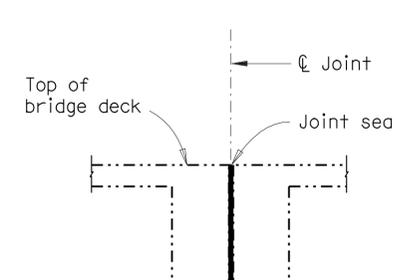
ABUTMENT WITH BACKWALL



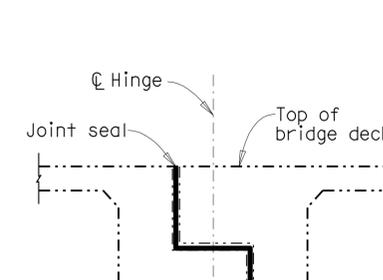
BIN TYPE ABUTMENT



DIAPHRAGM ABUTMENT



BENT



HINGE

JOINT SEAL LOCATION

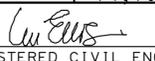
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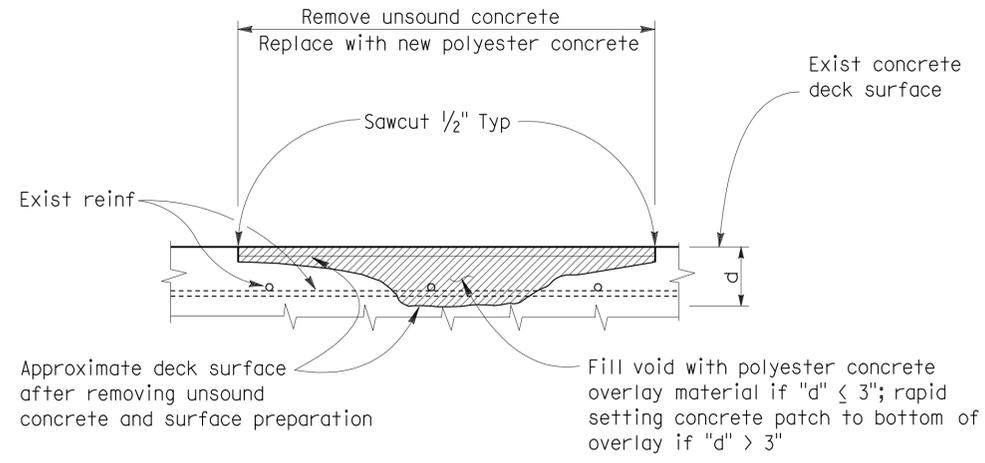
NOTE:

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

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DESIGN</td> <td style="width: 20%;">BY L. Ellis</td> <td style="width: 20%;">CHECKED A. Kushkaki</td> </tr> <tr> <td>DETAILS</td> <td>BY M. Yu</td> <td>CHECKED L. Ellis</td> </tr> <tr> <td>QUANTITIES</td> <td>BY L. Ellis</td> <td>CHECKED A. Kushkaki</td> </tr> </table>	DESIGN	BY L. Ellis	CHECKED A. Kushkaki	DETAILS	BY M. Yu	CHECKED L. Ellis	QUANTITIES	BY L. Ellis	CHECKED A. Kushkaki	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO. Varies POST MILE Varies	REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS VARIOUS BRIDGES JOINT SEAL TABLE AND DETAILS
DESIGN	BY L. Ellis	CHECKED A. Kushkaki											
DETAILS	BY M. Yu	CHECKED L. Ellis											
QUANTITIES	BY L. Ellis	CHECKED A. Kushkaki											
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3486 PROJECT NUMBER & PHASE: 0812000133	CONTRACT NO.: 08-0R6401									
			DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">REVISION DATES</td> <td style="width: 20%;">SHEET</td> <td style="width: 20%;">OF</td> </tr> <tr> <td>06-11-12 10-2-12 10-11-12</td> <td style="text-align: center;">6</td> <td style="text-align: center;">10</td> </tr> </table>	REVISION DATES	SHEET	OF	06-11-12 10-2-12 10-11-12	6	10			
REVISION DATES	SHEET	OF											
06-11-12 10-2-12 10-11-12	6	10											

082577 TIME PLOTTED => 19-MAR-2013 8:12:16:14 DATE PLOTTED =>

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	86S, 79, 74, 10	Var	38	41
			10-17-12		
REGISTERED CIVIL ENGINEER			DATE		
3-18-13			PLANS APPROVAL DATE		
LINA G. ELLIS			No. C65260		
Exp. 9-30-13			CIVIL		
<small>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.</small>					

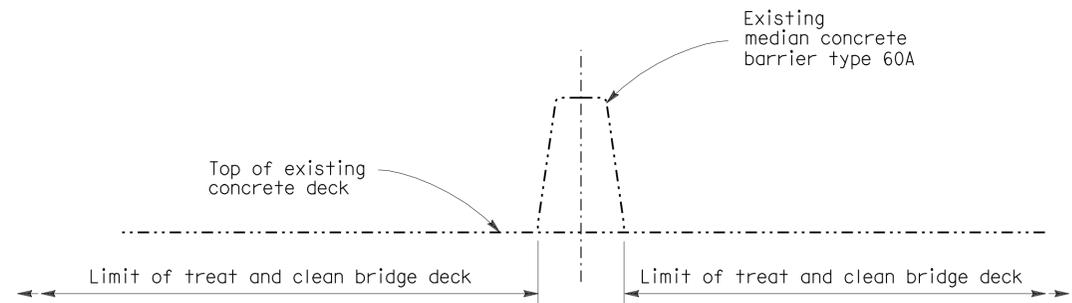


DECK REPAIR DETAIL

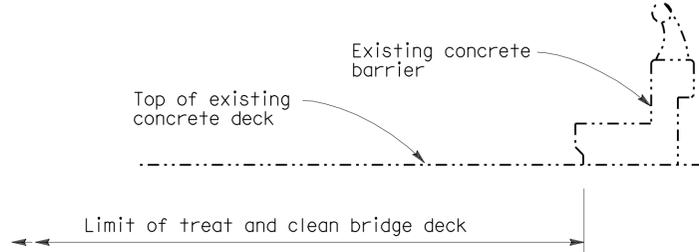
No Scale
 Note: Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal

DECK REPAIR NOTES:

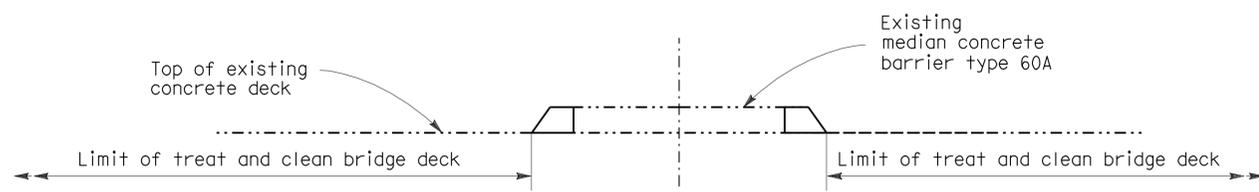
1. For bridge locations, see "GENERAL PLAN NO. 1 & GENERAL PLAN NO. 3" sheets.
2. Locations and limits of deck repair will be determined by the Engineer.
3. Reinforcement may be encountered during removal of unsound concrete.
4. Existing reinforcement shall be protected in place during removal of unsound concrete and patching operations.
5. It is the responsibility of the contractor to repair any reinforcement that is damaged by saw cutting operations.
6. When existing transverse reinforcement is exposed in the deck surface, saw cutting shall be waived with the approval of the Engineer.
7. The saw cut depth shall not exceed 1 inch or the concrete cover over the top steel reinforcing bars, whichever is less.
8. Remove unsound concrete and patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch, or polyester concrete.



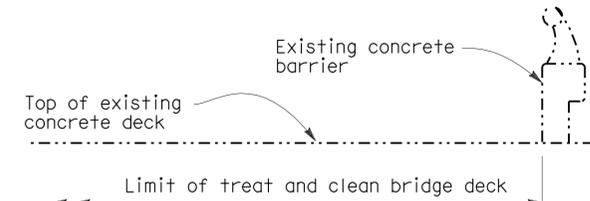
MEDIAN BARRIER



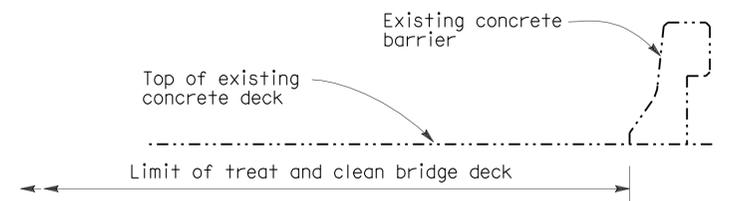
SIDEWALK BARRIER TYPE 2



RAISED MEDIAN



SIDEWALK BARRIER TYPE 1



EOD BARRIER

TYPICAL LIMITS OF DECK WORK

NOTE:
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REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS

DESIGN	BY L. Ellis	CHECKED A. Kushkaki	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	Varies	VARIOUS BRIDGES DECK REPAIR DETAILS
DETAILS	BY M. Yu	CHECKED L. Ellis			POST MILE	Varies	
QUANTITIES	BY L. Ellis	CHECKED A. Kushkaki					

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	86S, 79, 74, 10	Var	39	41

L. Ellis 10-17-12
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

LINA G. ELLIS
No. C65260
Exp. 9-30-13
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.

<p>01 - MIDDLE FORK SAN TIMOTEO CREEK BR NO 56-0215L</p> <p>QUANTITIES</p> <p>PREPARE CONCRETE BRIDGE DECK SURFACE 7,885 SQFT TREAT BRIDGE DECK 7,885 SQFT FURNISH BRIDGE DECK TREATMENT MATERIAL 88 GAL PAINT BRIDGE NAME AND NUMBER 2 EA</p> <p>02 - W10-W60 CONNECTOR OC BR NO 56-0452F</p> <p>QUANTITIES</p> <p>INJECT CRACK (EPOXY) 50 LF PAINT BRIDGE NAME AND NUMBER 2 EA</p> <p>03 - PENNSYLVANIA AVE UC BR NO 56-0433</p> <p>QUANTITIES</p> <p>PREPARE CONCRETE BRIDGE DECK SURFACE 13,452 SQFT TREAT BRIDGE DECK 13,452 SQFT FURNISH BRIDGE DECK TREATMENT MATERIAL 149 GAL AGGREGATE BASE (APPROACH SLAB) 3 CY STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 27 CY PAVING NOTCH EXTENSION 18 CF CLEAN EXPANSION JOINT 286 LF PAINT BRIDGE NAME AND NUMBER 2 EA JOINT SEAL (MR 1") 310 LF</p> <p>04 - HIGHLAND SPRINGS AVE UC BR NO 56-0432</p> <p>QUANTITIES</p> <p>PUBLIC SAFETY PLAN LUMP SUM PREPARE CONCRETE BRIDGE DECK SURFACE 1,440 SQFT TREAT BRIDGE DECK 1,440 SQFT FURNISH BRIDGE DECK TREATMENT MATERIAL 16 GAL CLEAN EXPANSION JOINT 310 LF PAINT BRIDGE NAME AND NUMBER 1 EA JOINT SEAL (MR 1") 310 LF</p>	<p>05 - SUNSET AVE UC BR NO 56-0431</p> <p>QUANTITIES</p> <p>REPAIR SPALLED SURFACE AREA 8 SQFT CLEAN EXPANSION JOINT 316 LF PAINT BRIDGE NAME AND NUMBER 2 EA JOINT SEAL (MR 1") 316 LF</p> <p>06 - 22ND STREET UC BR NO 56-0430</p> <p>QUANTITIES</p> <p>PREPARE CONCRETE BRIDGE DECK SURFACE 720 SQFT TREAT BRIDGE DECK 720 SQFT FURNISH BRIDGE DECK TREATMENT MATERIAL 9 GAL AGGREGATE BASE (APPROACH SLAB) 2 CY STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 14 CY PAVING NOTCH EXTENSION 9 CF CLEAN EXPANSION JOINT 298 LF PAINT BRIDGE NAME AND NUMBER 2 EA JOINT SEAL (MR 1") 310 LF</p> <p>07 - ROUTE 10/243 SEPARATION BR NO 56-0323</p> <p>QUANTITIES</p> <p>REPAIR SPALLED SURFACE AREA 1 SQFT PREPARE CONCRETE BRIDGE DECK SURFACE 8,640 SQFT TREAT BRIDGE DECK 8,640 SQFT FURNISH BRIDGE DECK TREATMENT MATERIAL 96 GAL CLEAN EXPANSION JOINT 294 LF PAINT BRIDGE NAME AND NUMBER 2 EA JOINT SEAL (MR 1") 294 LF</p> <p>08 - HARGRAVE STREET UC BR NO 56-0324</p> <p>QUANTITIES</p> <p>PREPARE CONCRETE BRIDGE DECK SURFACE 8,640 SQFT TREAT BRIDGE DECK 8,640 SQFT FURNISH BRIDGE DECK TREATMENT MATERIAL 96 GAL CLEAN EXPANSION JOINT 294 LF PAINT BRIDGE NAME AND NUMBER 2 EA JOINT SEAL (MR 1") 294 LF</p>	<p>09 - SAN GORGINIO WASH SEP BR NO 56-0003</p> <p>QUANTITIES</p> <p>AGGREGATE BASE (APPROACH SLAB) 6 CY STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 53 CY PAVING NOTCH EXTENSION 36 CF CLEAN EXPANSION JOINT 434 LF PAINT BRIDGE NAME AND NUMBER 2 EA JOINT SEAL (MR 1 1/2") 498 LF</p> <p>10 - SAN GIORGINIO WASH OVERFLOW BR NO 56-0351</p> <p>QUANTITIES</p> <p>AGGREGATE BASE (APPROACH SLAB) 2 CY STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 14 CY PAVING NOTCH EXTENSION 9 CF CLEAN EXPANSION JOINT 507 LF JOINT SEAL (MR 1") 522 LF</p> <p>11 - EAST CABAZON DITCH BR NO 56-0562</p> <p>QUANTITIES</p> <p>CONCRETE INVERT PAVING 271 LF DRILL AND BOND DOWEL 137 LF</p> <p>12 - 44TH AVENUE UC BR NO 56-0613L</p> <p>QUANTITIES</p> <p>PREPARE CONCRETE BRIDGE DECK SURFACE 9,231 SQFT TREAT BRIDGE DECK 9,231 SQFT FURNISH BRIDGE DECK TREATMENT MATERIAL 102 GAL CLEAN EXPANSION JOINT 154 LF PAINT BRIDGE NAME AND NUMBER 1 EA JOINT SEAL (MR 1") 154 LF</p>
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REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS

DESIGN	BY L. Ellis	CHECKED A. Kushkaki	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	QUANTITIES
	DETAILS BY M. Yu	CHECKED L. Ellis			Varies	
	QUANTITIES BY L. Ellis	CHECKED A. Kushkaki			POST MILE	

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

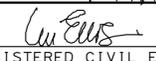
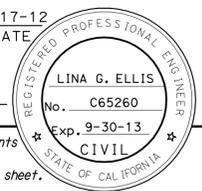
UNIT: 3486
PROJECT NUMBER & PHASE: 0812000133
CONTRACT NO.: 08-0R6401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
10-16-12	8	10

FILE => 08-0R6404js+003.dgn

082577 TIME PLOTTED => 19-MAR-2013 USERNAME => s121614 DATE PLOTTED =>

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	86S, 79, 74, 10	Var	40	41
 REGISTERED CIVIL ENGINEER DATE 10-17-12					
PLANS APPROVAL DATE 3-18-13					
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13 - 44TH AVENUE UC BR NO 56-0613R

QUANTITIES

AGGREGATE BASE (APPROACH SLAB)	6	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	53	CY
PAVING NOTCH EXTENSION	36	CF
CLEAN EXPANSION JOINT	82	LF
PAINT BRIDGE NAME AND NUMBER	1	EA
JOINT SEAL (MR 1")	154	LF

19 - EAST CACTUS WASH BR NO 56-0462R

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	8,765	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	657	CF
PLACE POLYESTER CONCRETE OVERLAY	8,765	SQFT
PAINT BRIDGE NAME AND NUMBER	1	EA

14 - COACHELLA CANAL BR NO 56-0079R

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	3,120	SQFT
TREAT BRIDGE DECK	3,120	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	35	GAL
PAINT BRIDGE NAME AND NUMBER	1	EA

20 - BURIED MOUNTAIN WASH BR NO 56-0212R

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	3,070	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	230	CF
PLACE POLYESTER CONCRETE OVERLAY	3,070	SQFT
PAINT BRIDGE NAME AND NUMBER	1	EA

25 - GILMAN SPRINGS ROAD UC BR NO 56-0782

QUANTITIES

CLEAN EXPANSION JOINT	81	LF
PAINT BRIDGE NAME AND NUMBER	2	EA
JOINT SEAL (MR 1 1/2")	81	LF

15 - WEST CACTUS WASH BR NO 56-0460L

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	3,253	SQFT
TREAT BRIDGE DECK	3,253	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	36	GAL
PAINT BRIDGE NAME AND NUMBER	1	EA

21 - SEVENTH AVENUE UC BR NO 56-0597L

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,013	SQFT
TREAT BRIDGE DECK	5,013	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	53	GAL

26 - CENTRAL BEAUMONT OH BR NO 56-0561

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	10,143	SQFT
TREAT BRIDGE DECK	10,143	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	113	GAL
PAINT BRIDGE NAME AND NUMBER	2	EA

16 - WEST CACTUS WASH BR NO 56-0460R

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	3,253	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	244	CF
PLACE POLYESTER CONCRETE OVERLAY	3,253	SQFT
PAINT BRIDGE NAME AND NUMBER	1	EA

22 - HORSE CREEK BR NO 56-0185

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	3,026	SQFT
TREAT BRIDGE DECK	3,026	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	34	GAL
PAINT BRIDGE NAME AND NUMBER	1	EA

27 - CVWD PIPELINE UC BR NO 56-0780L

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	4,056	SQFT
TREAT BRIDGE DECK	4,056	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	45	GAL
CLEAN EXPANSION JOINT	58	LF
PAINT BRIDGE NAME AND NUMBER	1	EA
JOINT SEAL (MR 1")	58	LF

17 - CACTUS WASH BR NO 56-0461L

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	13,881	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	1,041	CF
PLACE POLYESTER CONCRETE OVERLAY	13,881	SQFT
PAINT BRIDGE NAME AND NUMBER	1	EA

23 - WINCHESTER ROAD SEPARATION BR NO 56-0656R

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	33,158	SQFT
TREAT BRIDGE DECK	33,158	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	368	GAL
PAINT BRIDGE NAME AND NUMBER	2	EA

28 - CVWD PIPELINE UC BR NO 56-0780R

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	4,056	SQFT
TREAT BRIDGE DECK	4,056	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	45	GAL
CLEAN EXPANSION JOINT	58	LF
PAINT BRIDGE NAME AND NUMBER	1	EA
JOINT SEAL (MR 1")	58	LF

18 - EAST CACTUS WASH BR NO 56-0462L

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	8,765	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	657	CF
PLACE POLYESTER CONCRETE OVERLAY	8,765	SQFT
PAINT BRIDGE NAME AND NUMBER	1	EA

24 - TEMECULA CREEK BR NO 56-0188

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	6,381	SQFT
TREAT BRIDGE DECK	6,381	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	71	GAL

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

REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY L. Ellis	CHECKED A. Kushkaki	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	Varies	QUANTITIES	
	DETAILS	BY M. Yu	CHECKED L. Ellis			POST MILE	Varies		
	QUANTITIES	BY L. Ellis	CHECKED A. Kushkaki						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT: 3486 PROJECT NUMBER & PHASE: 0812000133	CONTRACT NO.: 08-0R6401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 9 OF 10

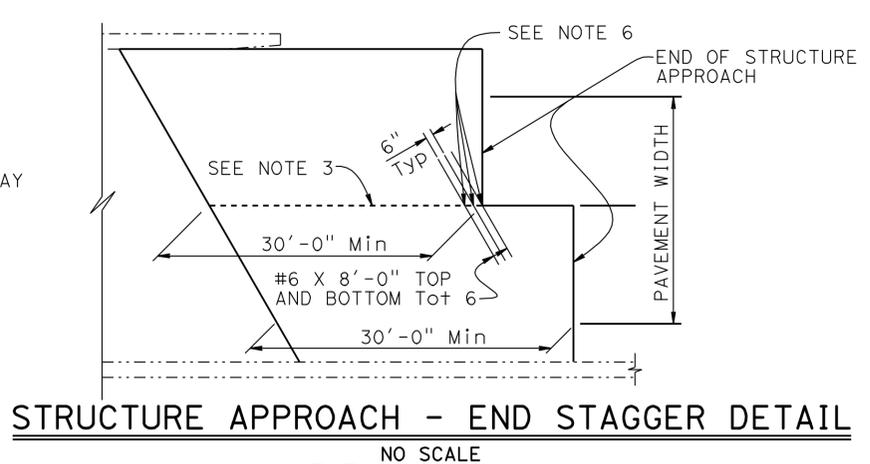
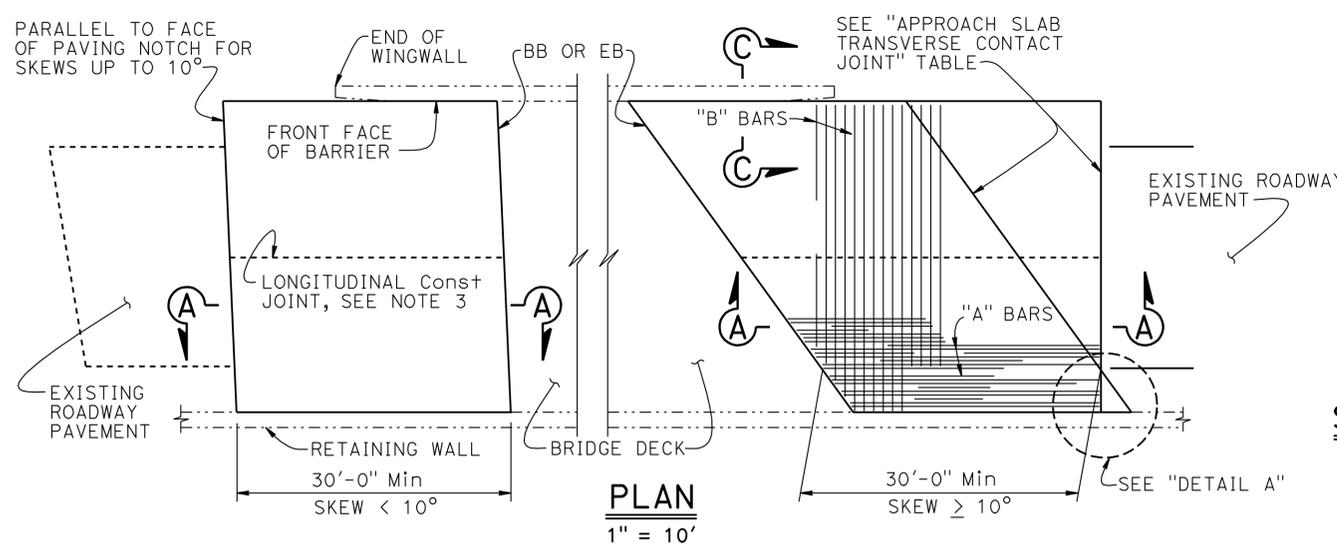
08557 TIME PLOTTED => 19-MAR-2013 USERNAME => s121614 DATE PLOTTED =>

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	86S, 79, 74, 10	Var	41	41

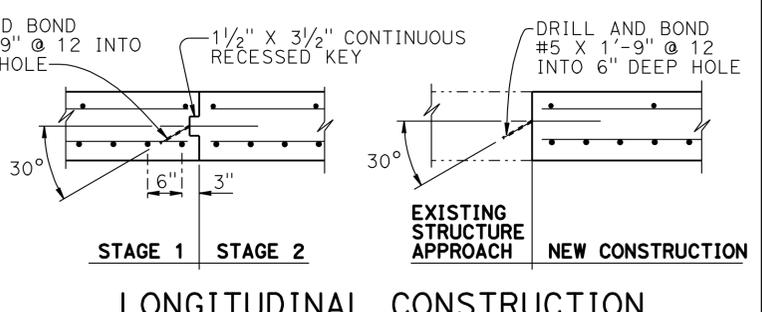
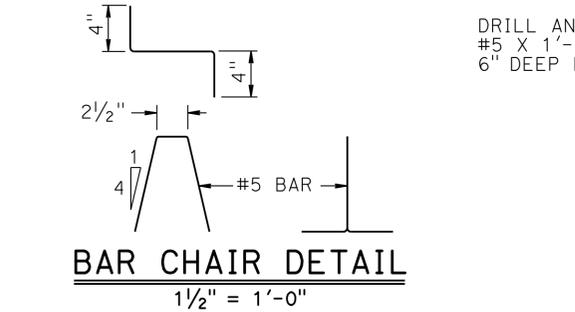
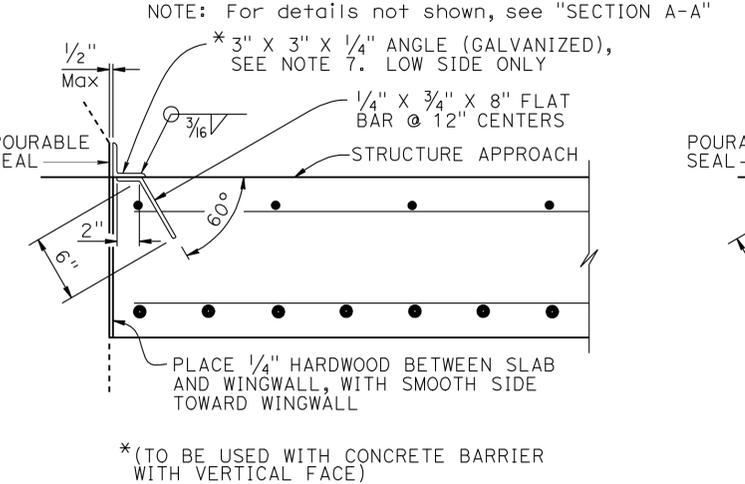
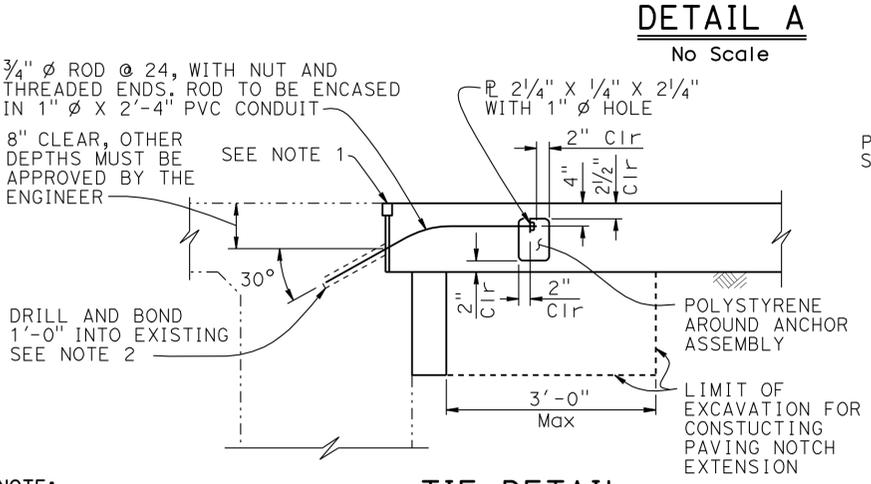
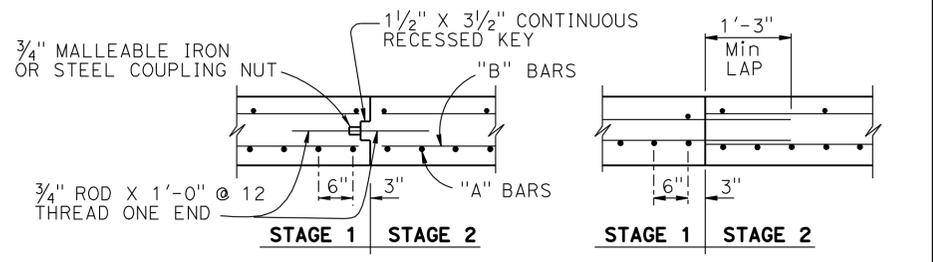
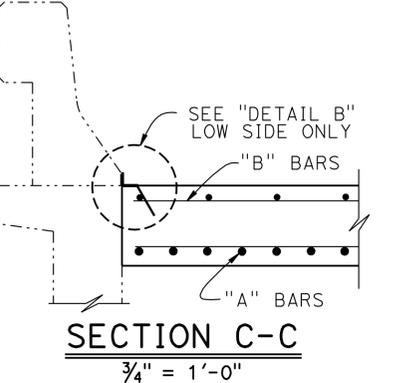
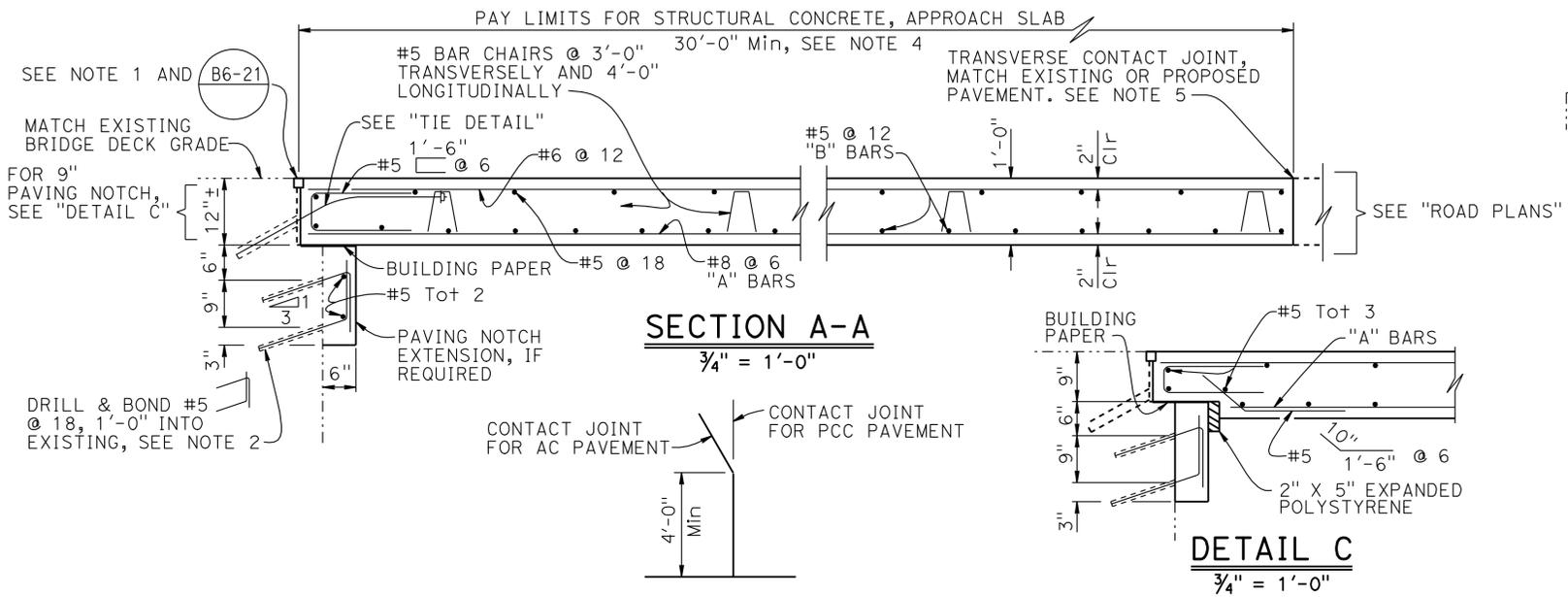
REGISTERED CIVIL ENGINEER
 LINA G. ELLIS
 No. C65260
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA

10-17-12
 DATE
 3-18-13
 PLANS APPROVAL DATE

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.



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



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

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

STANDARD DRAWING	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. Varies	POST MILE Varies	VARIOUS BRIDGES
FILE NO. xs3-150	APPROVAL DATE July 2011	UNIT: 3486 PROJECT NUMBER & PHASE: 0812000133	CONTRACT NO.: 08-0R6401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES
DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CONTRACT NO.: 08-0R6401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 10 OF 10

FILE => xs3-150.dgn