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

LOCATIONS OF CONSTRUCTION

Loc	Rte	PM	BRIDGE No.	DESCRIPTION
①	5	R16.91	57-0415	HAWTHORN STREET UC
②	5	R17.57	57-0481S	SASSAFRAS STREET VIADUCT N/B
③	8	2.56	57-0358	E8-N163 CONNECTOR RAMP UC
④	15	R0.59	57-0769	OCEANVIEW Blvd OC
⑤	15	1.49	57-0496	IMPERIAL AVENUE OH
⑥	15	R3.78	57-0612F	S15-S805 CONNECTOR OC
⑦	15	R6.01	57-0882G	N15-W8 CONNECTOR OC
⑧	15	R6.82	57-0626	FRIARS ROAD OC
⑨	15	R9.23	57-0878R	BALBOA Ave OC
⑩	15	R9.25	57-0878L	BALBOA Ave OC
⑪	15	R10.00	57-0919	CLAIRMONT MESA Blvd OC
⑫	94	1.42	57-0417R	ROUTE 94/5 SEPARATION
⑬	94	R12.73	57-0574	SWEETWATER SPRINGS Blvd OC
⑭	94	24.66	57-0241	DULZURA CREEK Br
⑮	125	13.80	57-0309	PANORAMA DRIVE UC
⑯	125	14.74	57-0311L	LEMON Ave UC
⑰	125	14.74	57-0311R	LEMON Ave UC
⑱	125	R15.35	57-0950L	ROUTE 125/8 SEPARATION
⑲	125	R15.35	57-0950R	ROUTE 125/8 SEPARATION
⑳	125	18.66	57-1044	AMAYA DRIVE OC
㉑	805	6.06	57-0635R	TELEGRAPH CANYON ROAD UC
㉒	805	7.76	57-0637R	BONITA ROAD UC
㉓	805	8.82	57-0746G	N805-W54 CONNECTOR / SR-54 SEPARATION
㉔	805	8.83	57-0746R	ROUTE 805 / SR-54 SEPARATION
㉕	805	11.22	57-0790G	DIVISION STREET & 47TH STREET UC
㉖	805	12.34	57-0650	IMPERIAL AVENUE OC
㉗	805	14.38	57-0610	TULIP STREET OC
㉘	805	14.59	57-0611L	ROUTE 805/15 SEPARATION
㉙	805	17.49	57-0717G	N805-W8 CONNECTOR OC
㉚	905	3.72	57-0852L	PALM CITY OH
㉛	905	3.82	57-0851L	BEYER Blvd UC
㉜	905	3.82	57-0851R	BEYER Blvd UC
㉝	905	4.41	57-0849L	PICADOR Blvd UC
㉞	905	4.41	57-0849R	PICADOR Blvd UC
㉟	905	5.14	57-0777G	E905-N805 CONNECTOR OC
㊱	905	5.14	57-0777L	ROUTE 905/805 SEPARATION

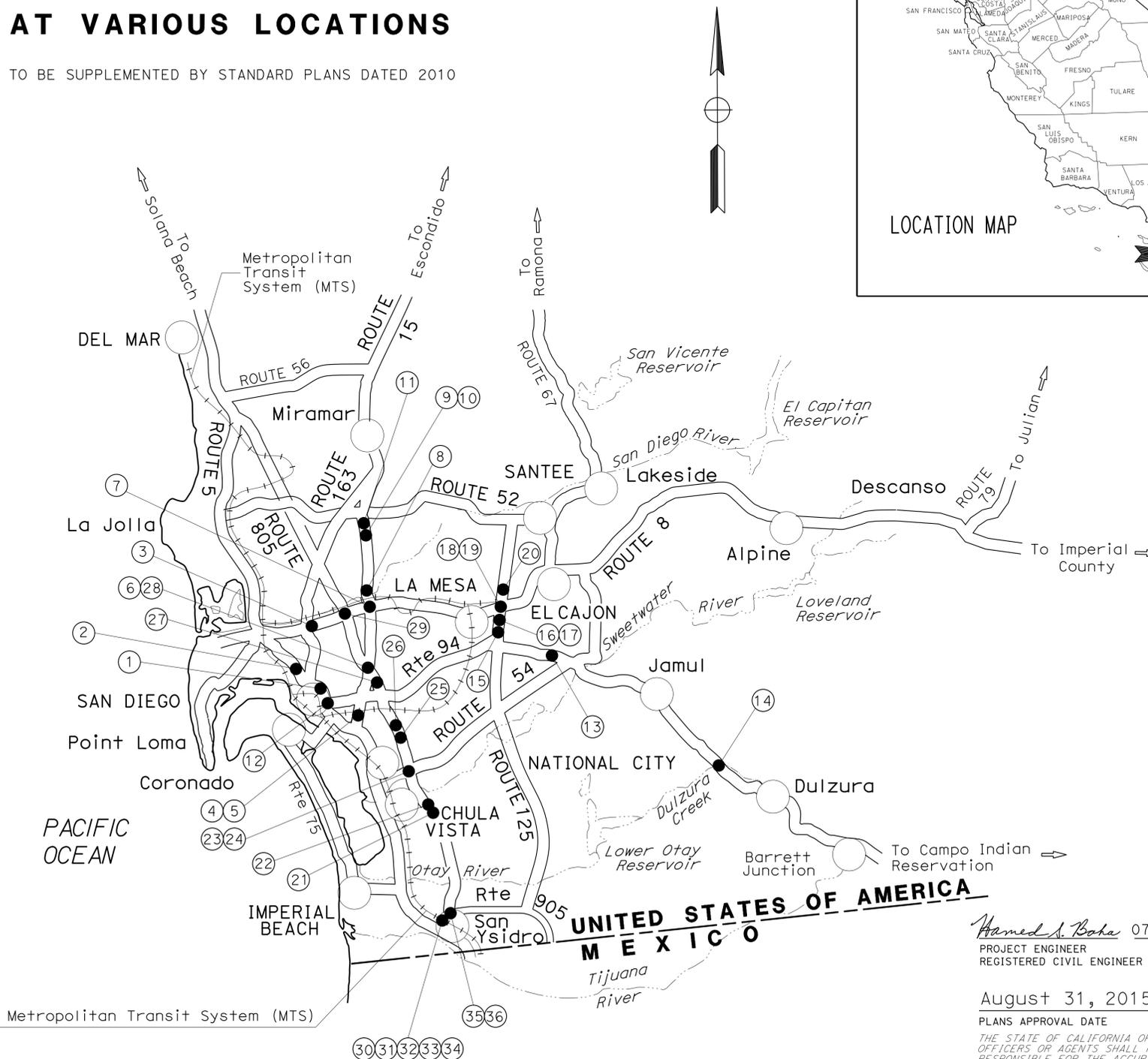
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

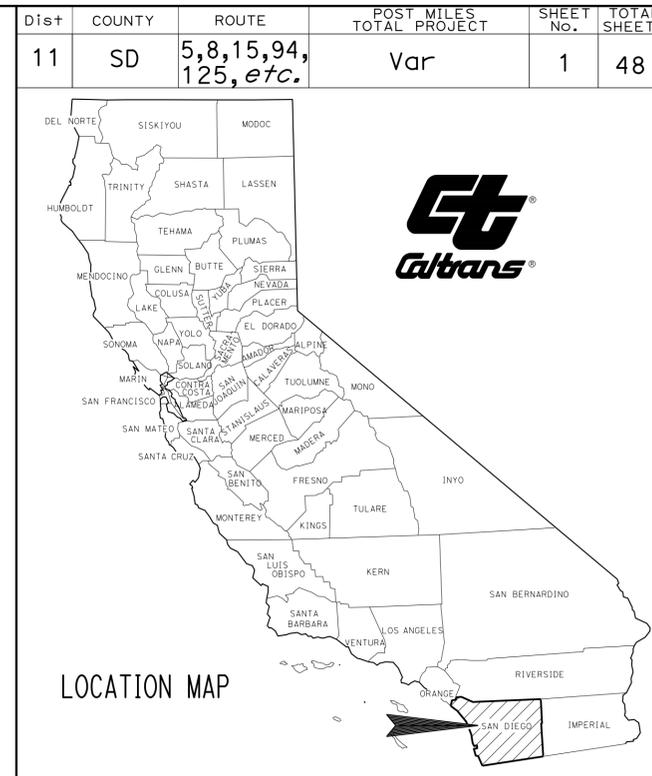
PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN SAN DIEGO COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



NO SCALE



PROJECT MANAGER
ALBERTO GAYON

 DESIGN ENGINEER
HAMED S. BAHA

Hamed S. Baha 07-29-15
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 August 31, 2015
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONTRACT No.	11-2M7304
PROJECT ID	1114000052

NOTES:

1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.
3. EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF SIGN POSTS IN CONSULTATION WITH THE ENGINEER.
4. SEE TRAFFIC HANDLING PLANS FOR ADDITIONAL CONSTRUCTION AREA SIGNS.

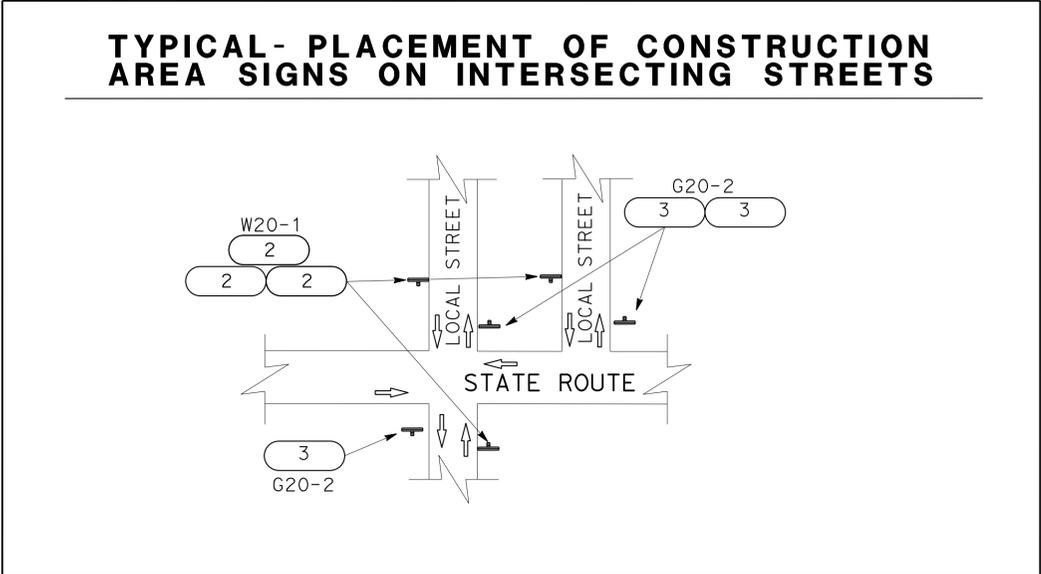
CONSTRUCTION AREA SIGNS

SIGN No.	TYPE	PANEL SIZE (INCH)x(INCH)	No. OF POST AND SIZE (INCH)x(INCH)	No. OF SIGNS
1	C40 (CA)	108 X 42	PORTABLE	10
2	G20-2	48 X 24	PORTABLE	12
3	W20-1	48 X 48	PORTABLE	12
15	SC6-4 (CA)	48 X 60	PORTABLE	77
16	R4-11	48 X 48	PORTABLE	2

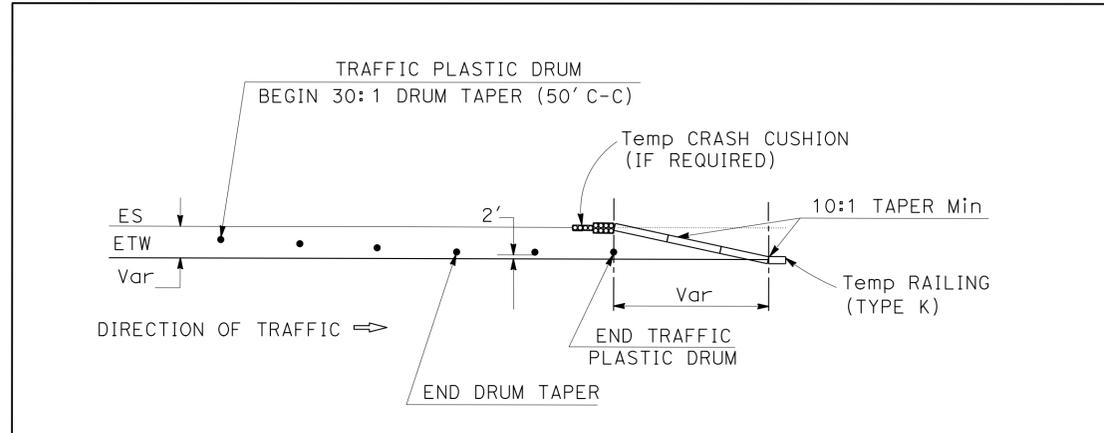
LEGEND:

(X) = CONSTRUCTION AREA SIGNS

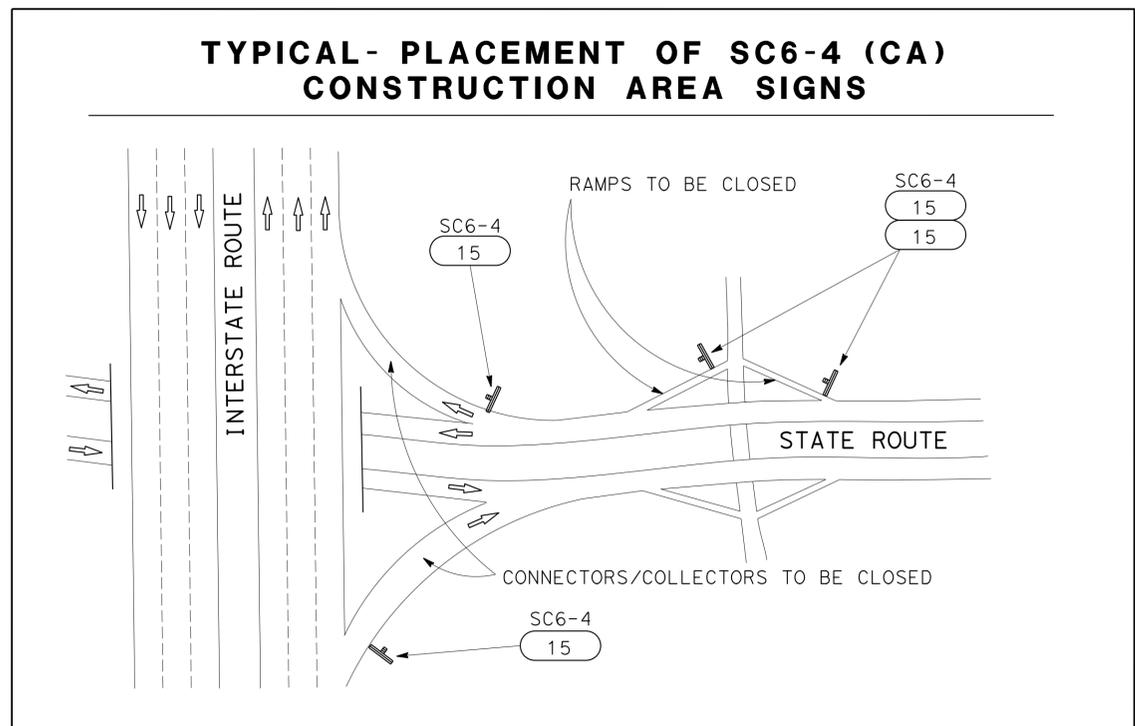
TYPICAL- PLACEMENT OF CONSTRUCTION AREA SIGNS ON INTERSECTING STREETS



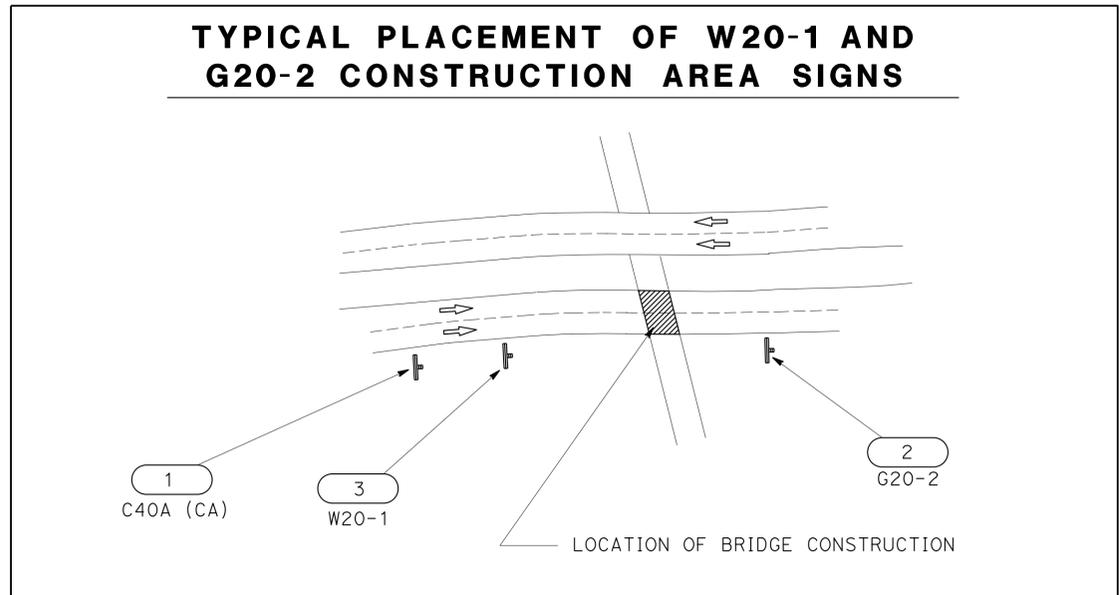
TYPICAL PLACEMENT OF TRAFFIC PLASTIC DRUM



TYPICAL- PLACEMENT OF SC6-4 (CA) CONSTRUCTION AREA SIGNS



TYPICAL PLACEMENT OF W20-1 AND G20-2 CONSTRUCTION AREA SIGNS



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

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

REVISOR BY
DATE REVISION

REBECCA IGNACIO
NOEL TAPIA

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
ALBERTO GAYON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: ALBERTO GAYON
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 REBECCA IGNACIO
 NOEL TAPIA
 REVISED BY: [blank]
 DATE REVISED: [blank]

- NOTES:**
1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
 2. FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.
 3. ROTATE ARROW ON SC9 (CA) PANEL TO REFLECT DIRECTION OF DETOUR.
 4. SEE CONSTRUCTION AREA SIGN PLAN FOR ADDITIONAL CONSTRUCTION AREA SIGNS.
 5. EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF THE SIGN POSTS IN CONSULTATION WITH THE ENGINEER.

LEGEND

- XX = CONSTRUCTION AREA SIGNS
- SPCL = SPECIAL CONSTRUCTION AREA SIGN
- Caps = CAPITAL LETTERING
- ⇨ = DETOUR DIRECTION OF TRAVEL

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94,125, etc.	Var	3	48

Hamed S. Baha 07-29-15
 REGISTERED CIVIL ENGINEER DATE

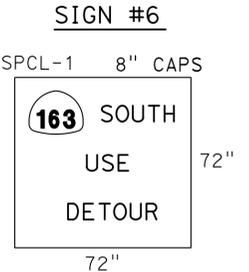
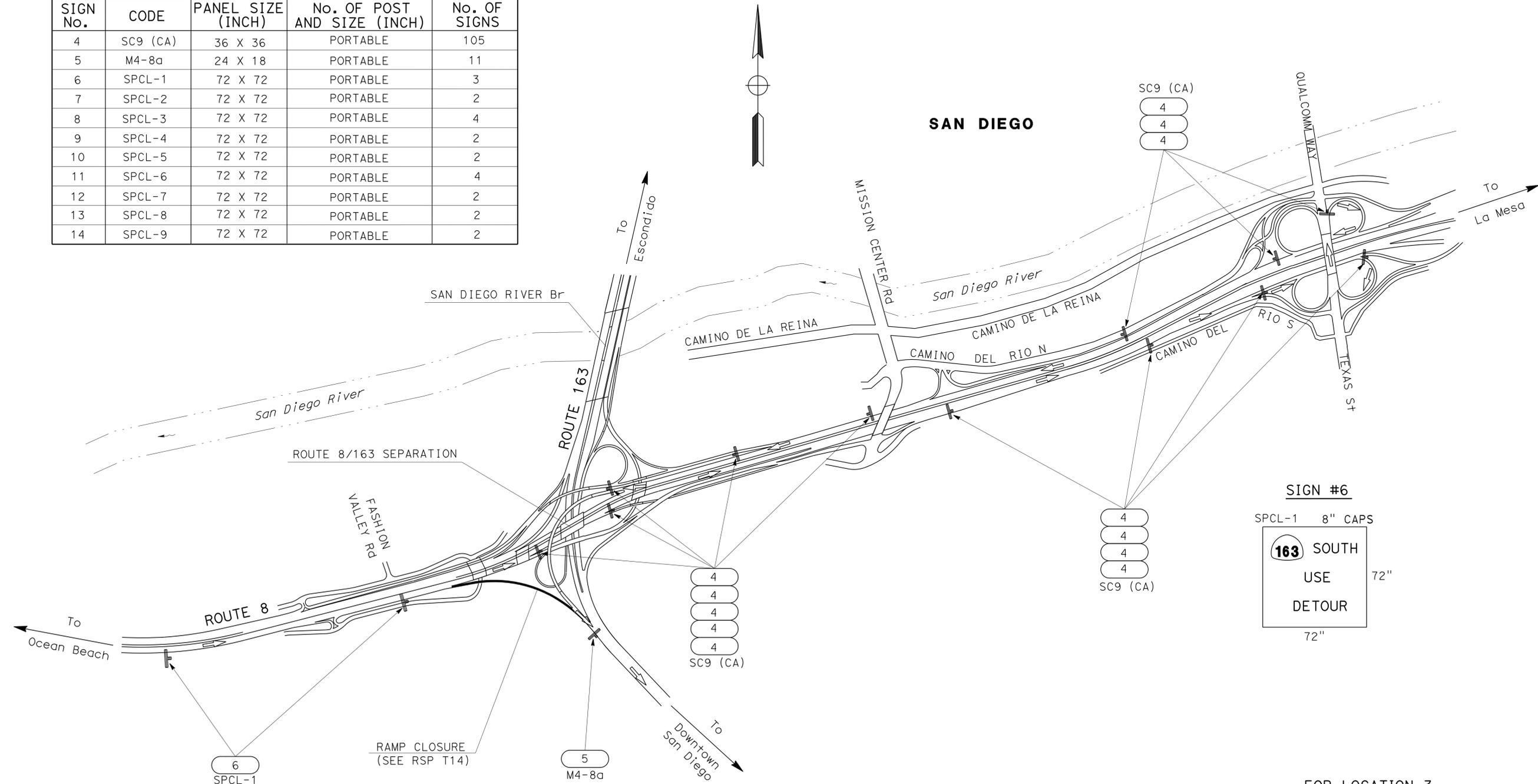
08-31-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 HAMED S. BAHHA
 No. 74499
 Exp. 12-31-15
 CIVIL

CONSTRUCTION AREA SIGNS

SIGN No.	CODE	PANEL SIZE (INCH)	No. OF POST AND SIZE (INCH)	No. OF SIGNS
4	SC9 (CA)	36 X 36	PORTABLE	105
5	M4-8a	24 X 18	PORTABLE	11
6	SPCL-1	72 X 72	PORTABLE	3
7	SPCL-2	72 X 72	PORTABLE	2
8	SPCL-3	72 X 72	PORTABLE	4
9	SPCL-4	72 X 72	PORTABLE	2
10	SPCL-5	72 X 72	PORTABLE	2
11	SPCL-6	72 X 72	PORTABLE	4
12	SPCL-7	72 X 72	PORTABLE	2
13	SPCL-8	72 X 72	PORTABLE	2
14	SPCL-9	72 X 72	PORTABLE	2



FOR LOCATION 3
 EB 8 CONNECTOR TO SB 163

TRAFFIC HANDLING PLAN
 TH-1

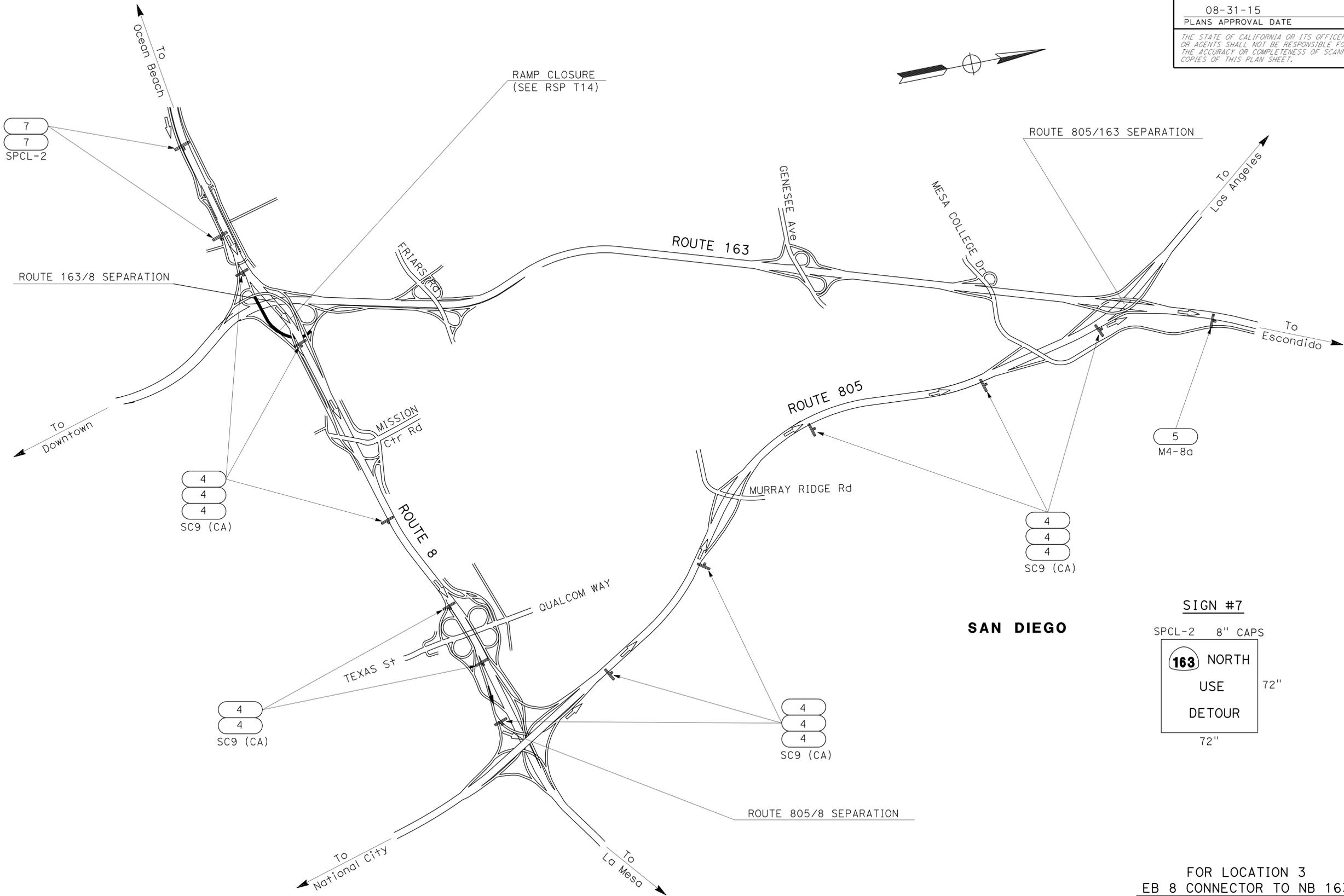
APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94,125, etc.	Var	4	48

Hamed S. Baha 07-29-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE

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HAMED S. BAHA
 No. 74499
 Exp. 12-31-15
 CIVIL



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Caltrans TRAFFIC DESIGN	ALBERTO GAYON	CHECKED BY	NOEL TAPIA
		REVISOR	REBECCA IGNACIO
		DATE	DATE

APPROVED FOR TRAFFIC HANDLING WORK ONLY

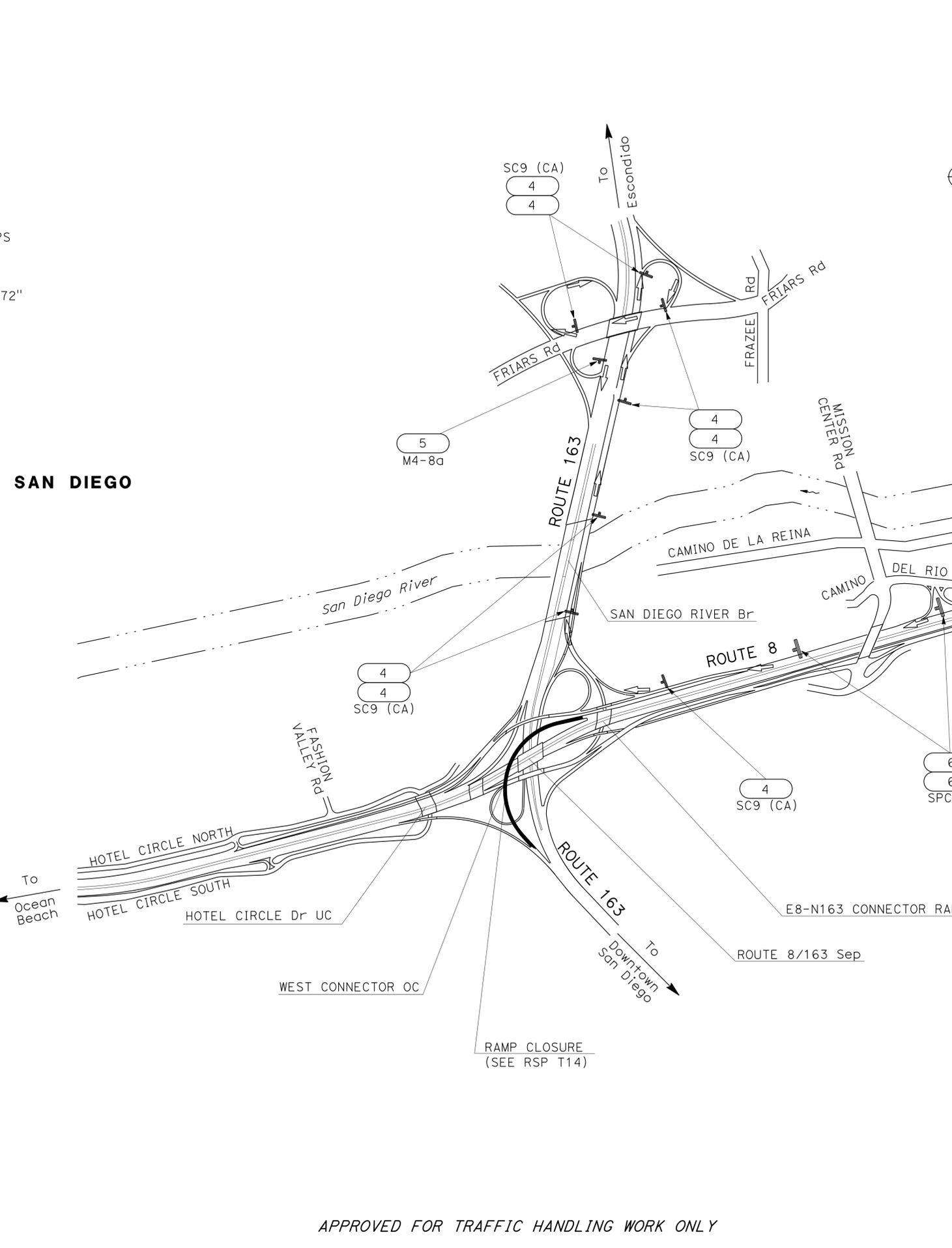
FOR LOCATION 3
 EB 8 CONNECTOR TO NB 163
TRAFFIC HANDLING PLAN
 NO SCALE
TH-2

LAST REVISION | DATE PLOTTED => 26-AUG-2015
 08-14-15 | TIME PLOTTED => 15:38

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR	ALBERTO GAYON
CALCULATED/DESIGNED BY	CHECKED BY
REBECCA IGNACIO	NOEL TAPIA
REVISED BY	DATE REVISED

USERNAME => s127400	BORDER LAST REVISED 7/2/2010
DGN FILE => 1114000052md003.dgn	



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94,125, etc.	Var	5	48

Hamed S. Baha 07-29-15
REGISTERED CIVIL ENGINEER DATE

08-31-15
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
HAMED S. BAHA
No. 74499
Exp. 12-31-15
CIVIL

SIGN #6
SPCL-1 8" CAPS
163 SOUTH USE DETOUR
72"

SAN DIEGO

FOR LOCATION 3
WB 8 CONNECTOR TO SB 163

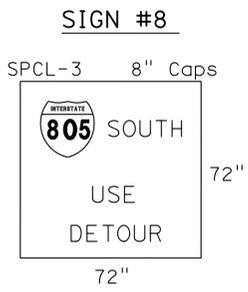
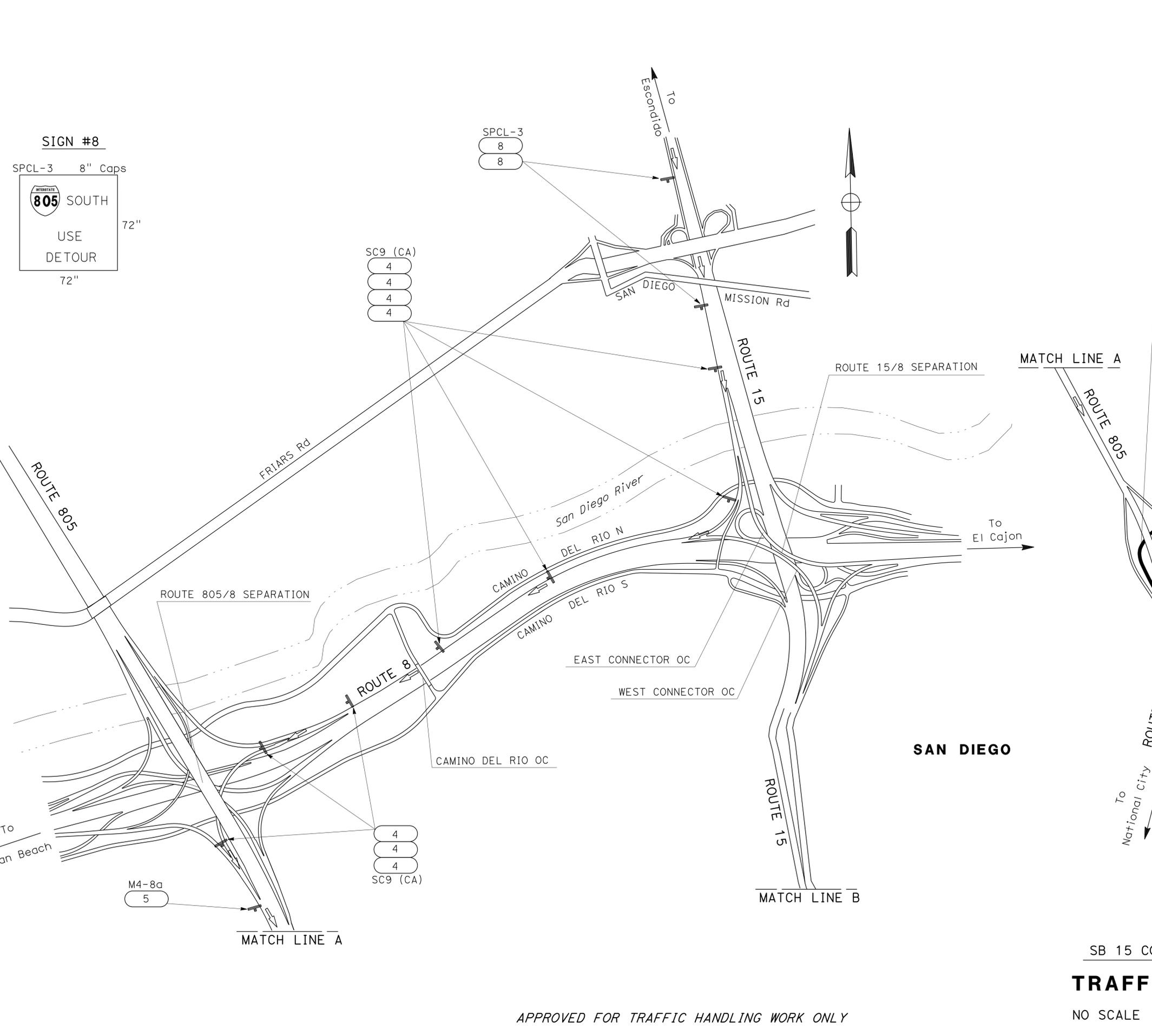
TRAFFIC HANDLING PLAN
TH-3

APPROVED FOR TRAFFIC HANDLING WORK ONLY

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR	ALBERTO GAYON
CALCULATED/DESIGNED BY	CHECKED BY
REBECCA IGNACIO	NOEL TAPIA
REVISED BY	DATE REVISED



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	6	48

Hamed S. Baha 07-29-15
 REGISTERED CIVIL ENGINEER DATE

08-31-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
HAMED S. BAHHA
 No. 74499
 Exp. 12-31-15
 CIVIL

FOR LOCATION 6
 SB 15 CONNECTOR TO SB 805 (PRIMARY)
TRAFFIC HANDLING PLAN
 TH-4
 NO SCALE

APPROVED FOR TRAFFIC HANDLING WORK ONLY

LAST REVISION | DATE PLOTTED => 26-AUG-2015
 08-17-15 TIME PLOTTED => 15:38

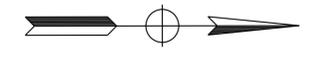
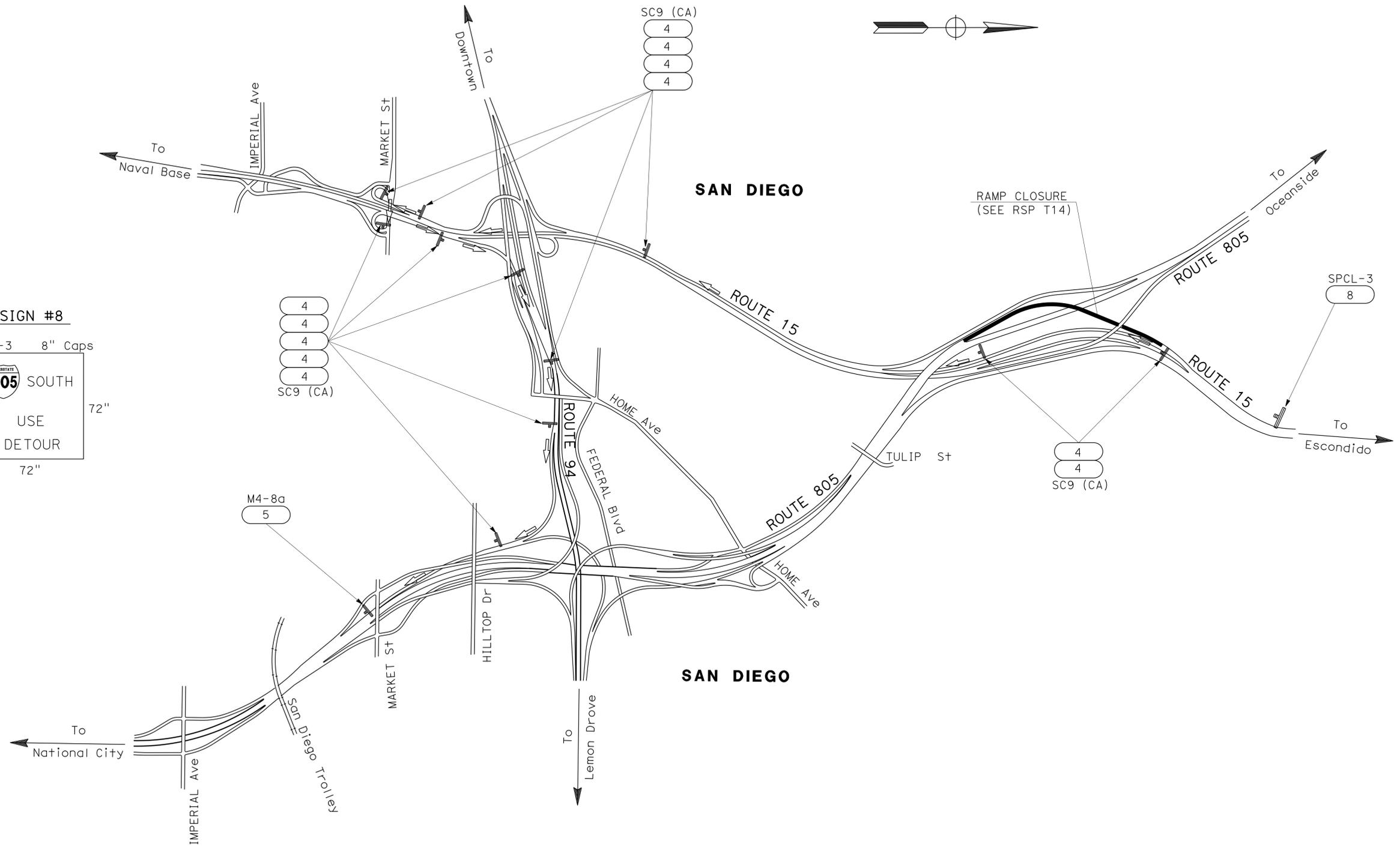
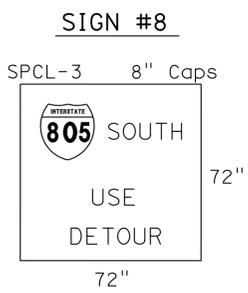
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94,125, etc.	Var	7	48

Hamed S. Baha 07-29-15
REGISTERED CIVIL ENGINEER DATE

08-31-15
PLANS APPROVAL DATE

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			REBECCA IGNACIO
			DATE REVISED



FOR LOCATION 6
SB 15 CONNECTOR TO SB 805 (SECONDARY)

TRAFFIC HANDLING PLAN

NO SCALE

TH-5

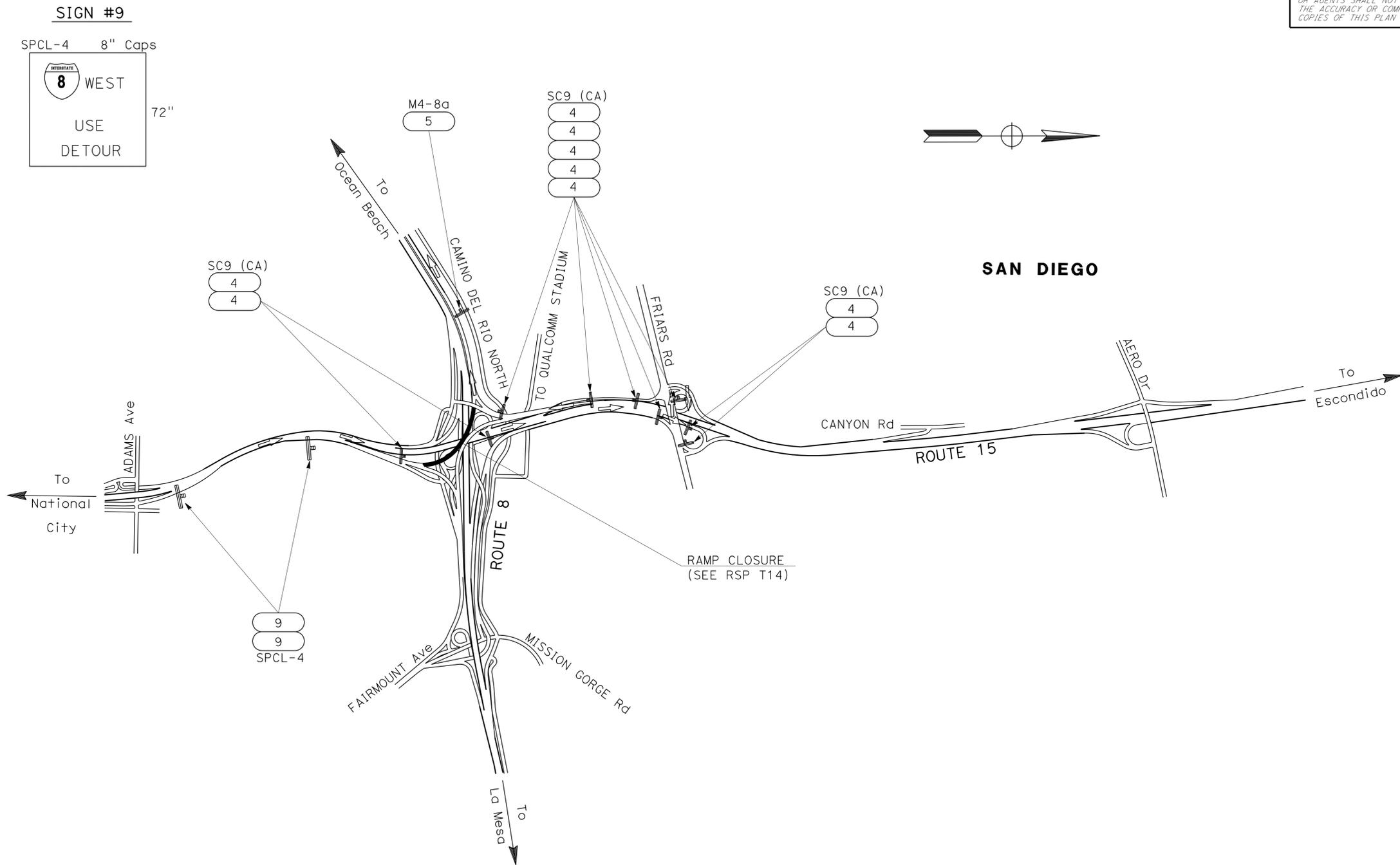
APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94,125, etc.	Var	8	48

Hamed S. Baha 07-29-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 HAMED S. BAHHA
 No. 74499
 Exp. 12-31-15
 CIVIL

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Caltrans TRAFFIC DESIGN	ALBERTO GAYON	CHECKED BY	NOEL TAPIA	DATE	REVISED

FOR LOCATION 7
 NB 15 CONNECTOR TO WB 8
TRAFFIC HANDLING PLAN
 NO SCALE
TH-6

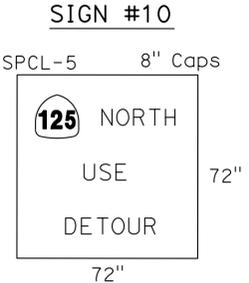
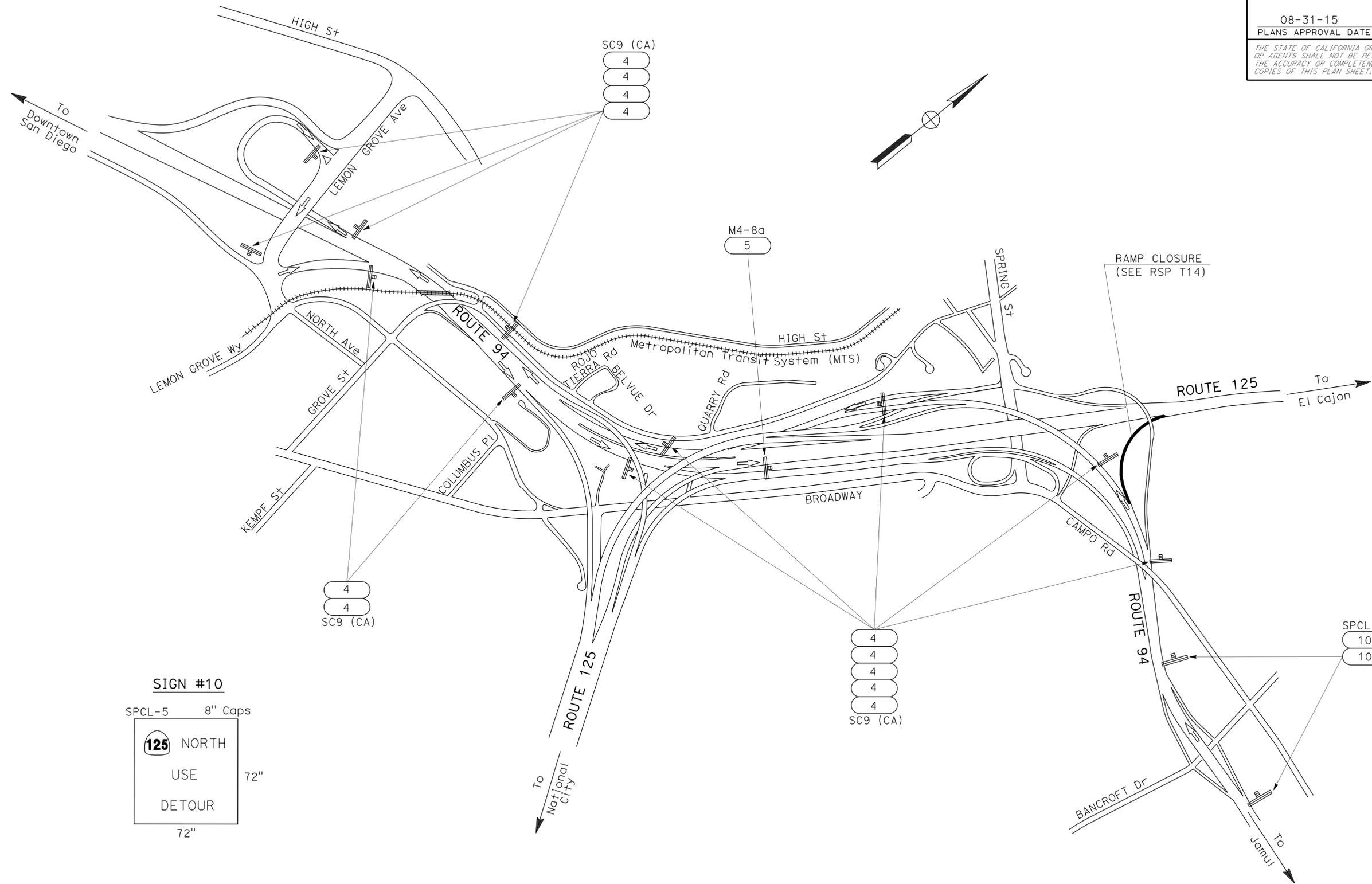
APPROVED FOR TRAFFIC HANDLING WORK ONLY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94,125, etc.	Var	9	48

Hamed S. Baha 07-29-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 HAMED S. BAHHA
 No. 74499
 Exp. 12-31-15
 CIVIL

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Caltrans TRAFFIC DESIGN

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 CHECKED BY: [blank]
 REBECCA IGNACIO
 NOEL TAPIA
 REVISED BY: [blank]
 DATE REVISED: [blank]

APPROVED FOR TRAFFIC HANDLING WORK ONLY

FOR LOCATION 15
 WB 94 CONNECTOR TO NB 125
TRAFFIC HANDLING PLAN
 NO SCALE
TH-7

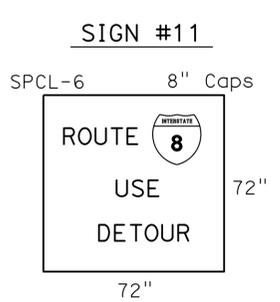
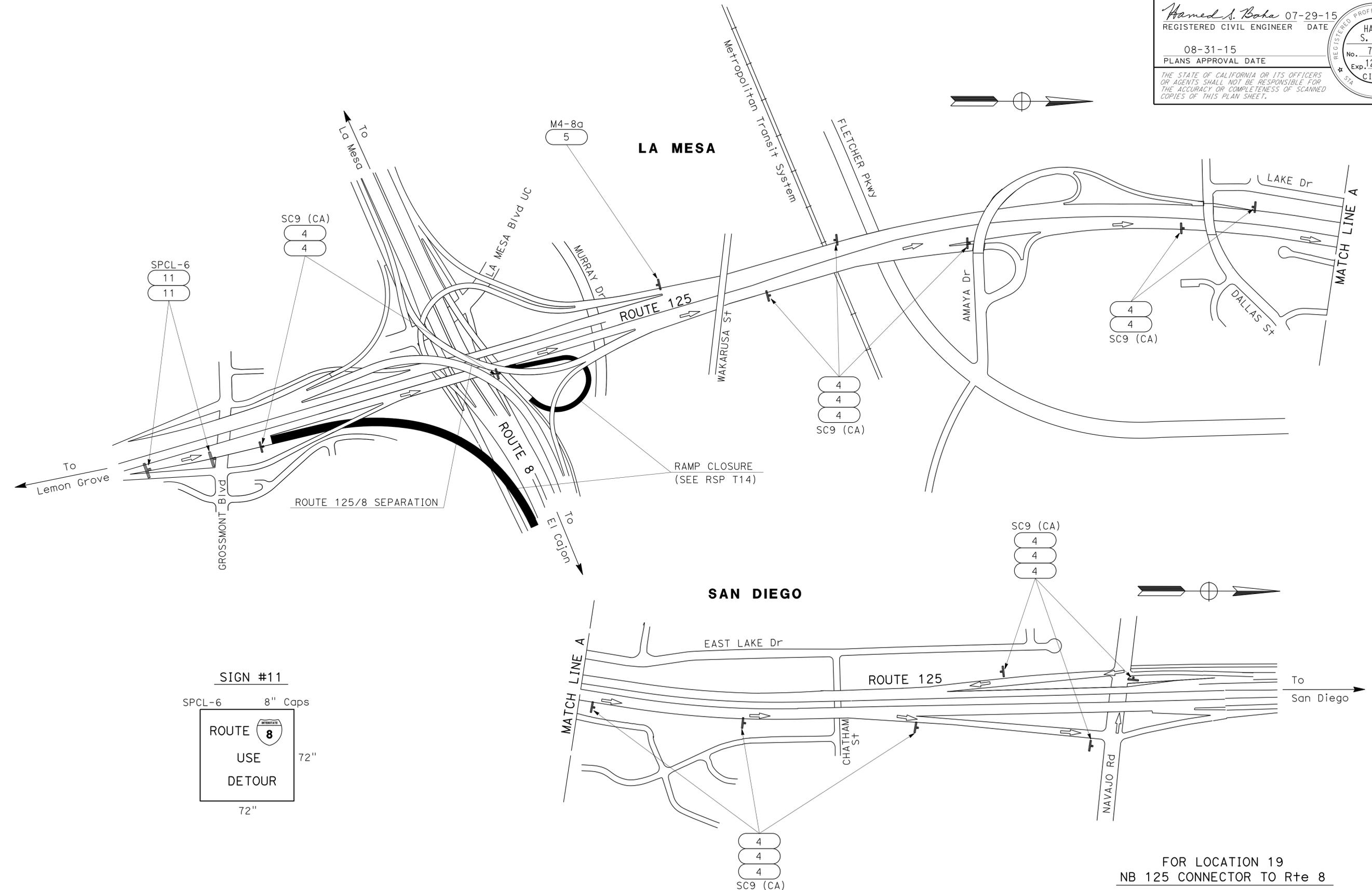
LAST REVISION | DATE PLOTTED => 26-AUG-2015
 08-17-15 TIME PLOTTED => 15:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	10	48

Hamed S. Baha 07-29-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
HAMED S. BAHA
 No. 74499
 Exp. 12-31-15
 CIVIL



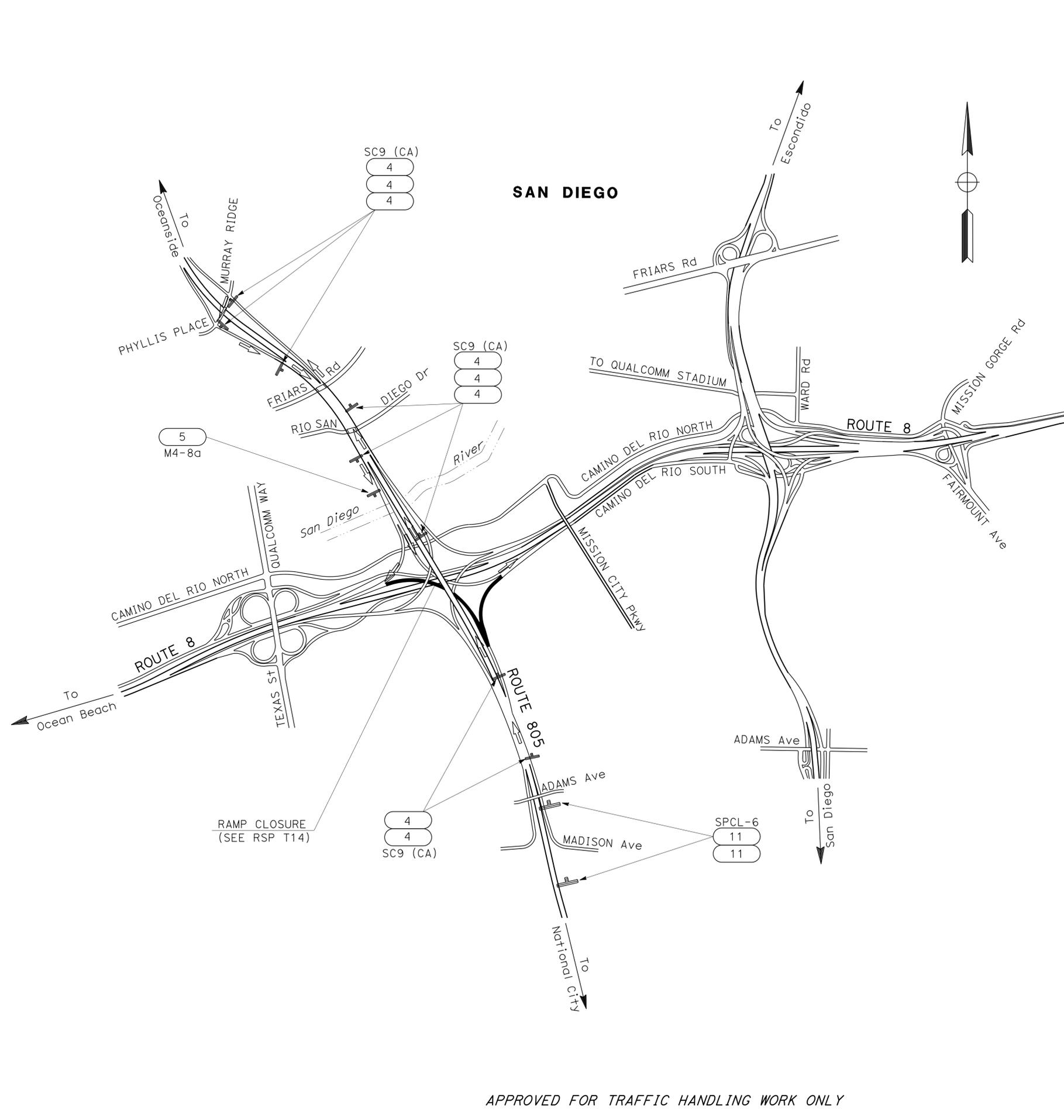
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REBECCA IGNACIO	REVISED BY	
Caltrans TRAFFIC DESIGN	ALBERTO GAYON	CHECKED BY	NOEL TAPIA	DATE	

APPROVED FOR TRAFFIC HANDLING WORK ONLY

FOR LOCATION 19
 NB 125 CONNECTOR TO Rte 8
TRAFFIC HANDLING PLAN
 NO SCALE
TH-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR	ALBERTO GAYON
CALCULATED/DESIGNED BY	CHECKED BY
REBECCA IGNACIO	NOEL TAPIA
REVISED BY	DATE REVISED



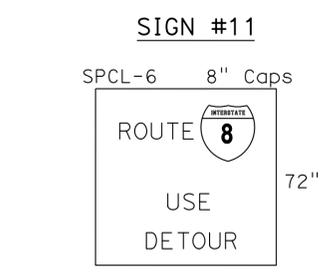
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94,125, etc.	Var	11	48

Hamed S. Baha 07-29-15
 REGISTERED CIVIL ENGINEER DATE

08-31-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 HAMED S. BAH
 No. 74499
 Exp. 12-31-15
 CIVIL



FOR LOCATION 29
 NB 805 CONNECTOR TO Rte 8

TRAFFIC HANDLING PLAN
TH-9

NO SCALE

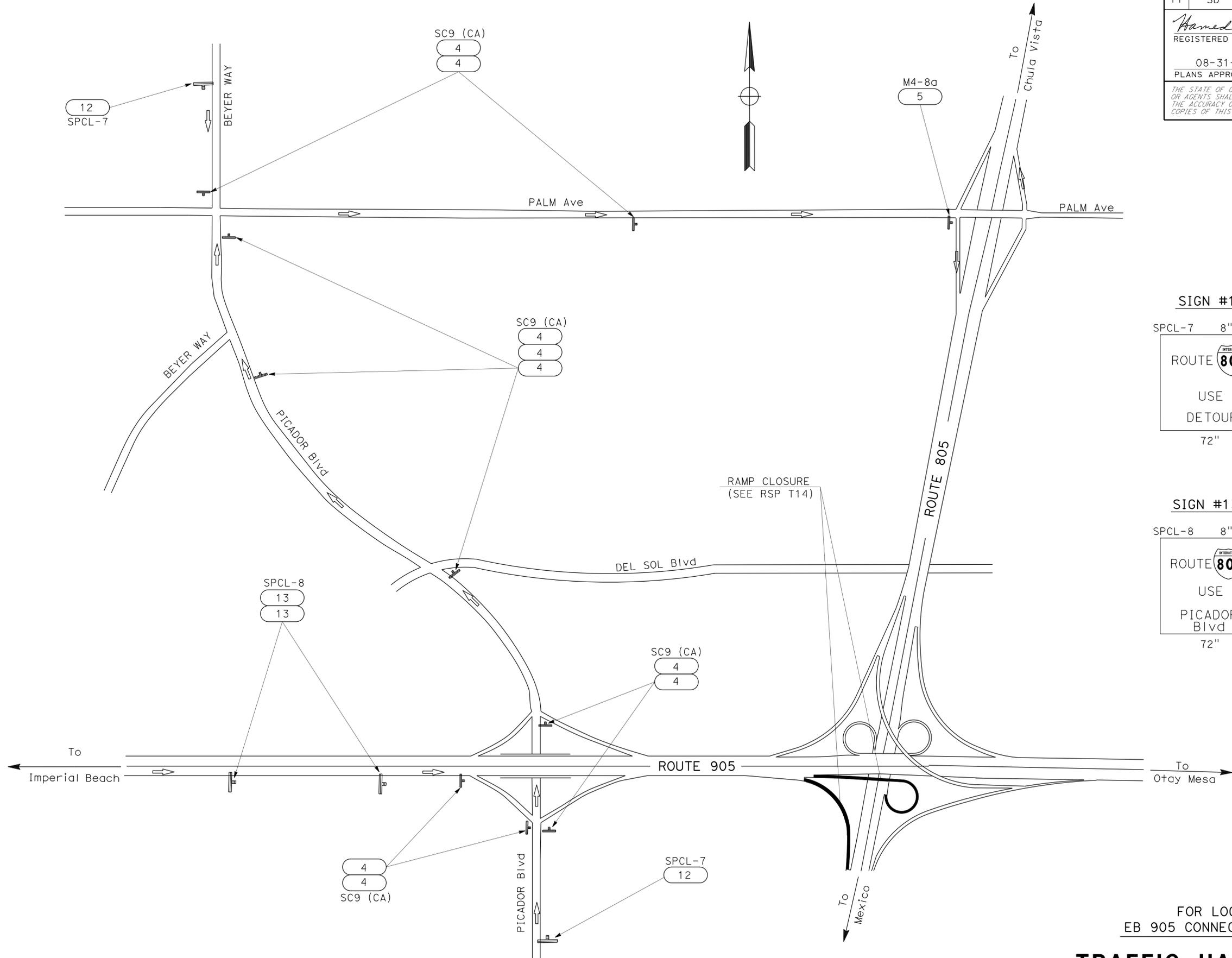
APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94,125, etc.	Var	12	48

Hamed S. Baha 07-29-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
HAMED S. BAHA
 No. 74499
 Exp. 12-31-15
 CIVIL



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Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: ALBERTO GAYON
 CALCULATED/DESIGNED BY: NOEL TAPIA
 REBECCA IGNACIO
 REVISED BY: DATE REVISED:

APPROVED FOR TRAFFIC HANDLING WORK ONLY

FOR LOCATION 35
 EB 905 CONNECTOR TO Rte 805
TRAFFIC HANDLING PLAN
 NO SCALE **TH-10**

LAST REVISION | DATE PLOTTED => 26-AUG-2015
 08-19-15 TIME PLOTTED => 15:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	16	48

Hamed S. Baha 07-29-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE

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NOTE: *** = NO STRIPING - REPLACE BRIDGE JOINT SEALS WORK ONLY

PAVEMENT DELINEATION QUANTITIES

LOCATION					PAVEMENT MARKER SUMMARY					TRAFFIC STRIPE SUMMARY							REMARKS			
ROUTE	DESCRIPTION	POSTMILE	BRIDGE No.	BRIDGE LENGTH	DETAIL No.	(NON-REFLECTIVE) (EA)	(RETROREFLECTIVE) (EA)				PAINT (LF)	THERMOPLASTIC (LF) (ENHANCED WET NIGHT VISIBILITY)								
						TYPE A	TYPE C	TYPE D	TYPE G	TYPE H	3" BLACK SOLID (1-COAT)	4" SOLID YELLOW	4" SOLID WHITE	4" WHITE BROKEN 17-7	4" WHITE BROKEN 36-12	6" WHITE SOLID		8" WHITE SOLID	8" WHITE BROKEN 12-3	
125	ROUTE 125/8 Sep - RIGHT	R15.35	57 0950R	541.01	11/13 25 (Mod) 27B (Mod)	92			24	12	541.01 541.01	541.01	541.01			1,082.02			= 541.01 x 2	
125	AMAYA Dr UC	18.66	57 1044	363.85	36 37 13	32	15		44 2 9	31	727.70 727.70	727.70	727.70				508.00	387.00		
805	TELEGRAPH CANYON Rd UC	6.06	57 0635R	248.03	25A (Mod) 27B (Mod)	126			32	6	248.03 248.03	248.03	248.03						= 363.85 x 2 = 363.85 x 2 = 248.03 x 6	
805	BONITA Rd UC	7.76	57 0637R	292.98	38B 13 25 (Mod) 27B (Mod)	124			43 32	13	585.96 585.96	585.96	585.96				496.06		= 248.03 x 2 = 292.98 x 5 = 292.98 x 2 = 292.98 x 2	
805	ROUTE 805/54 Sep - RIGHT	8.82	57 0746G	268.04	8 13 44 (Mod) 25 (Mod) 27B (Mod)	69			18 24	7	268.04 268.04 268.04	268.04	536.08 268.04			165.00			= 268.04 x 3	
805	ROUTE 805/54 Sep - RIGHT	8.83	57 0746R	287.07	36A 13 44 (Mod) 25 (Mod) 27B (Mod)	74			8 19 26	7	287.07 287.07 287.07	287.07	574.14 287.07			156.00			= 287.07 x 3	
805	DIVISION St/47th St UC	11.22	57 0790G	899.93	36 13 25A (Mod) 27B (Mod)	77			21 20	38	899.93 899.93	899.93	899.93				225.00			
805	IMPERIAL Ave OC	12.34	57 0650	263.12	9 21 37 38		8		12 2 11			526.24		526.24				230.00	173.00	= 263.12 x 2
805	TULIP St OC	14.38	57 0610	284.12	22		26				568.24									
805	ROUTE 805/15 SEPARATION	14.59	57 0611L	482.94																***
805	NB805/WB8 CONNECTOR OC	17.49	57 0717G	1574.80																***
905	PALM CITY OH	3.72	57 0852L	209.97																***
905	BEYER Blvd UC - LEFT	3.82	57 0851L	205.05	11/13 25 (Mod) 27B (Mod)	19			5	5	205.05 205.05	205.05	205.05			205.05		354.00	70.00	
905	BEYER Blvd UC - RIGHT	3.82	57 0851R	193.90	36A 37 11/13 25 (Mod)	18	4		8 2 5	5	193.90 193.90 387.79	193.90 193.90	387.79			193.90				
905	PICADOR Blvd UC - LEFT	4.41	57 0849L	151.90	25A (Mod) 27B (Mod)					13	296.92 296.92	296.92	296.92							***
905	PICADOR Blvd UC - RIGHT	4.41	57 0849R	147.97																***
905	EB908/NB805 CONNECTOR OC	5.14	57 0777G	296.92	25A (Mod) 27B (Mod)					15	296.92 296.92	296.92	296.92			648.29				= 324.15 x 2
905	ROUTE 905/805 SEPARATION	5.14	57 0777L	324.15	11/13 25 (Mod) 25A (Mod) 27B (Mod)	56			8 15	8	324.15 324.15 324.15	324.15 324.15								= 324.15 x 2
SUB-TOTALS						687	27	26	382	169	10,746.71	6,190.27	6,206.01	691.24	2,129.26	0.00	1,969.06	630.00		
(FROM PDQ-1) SUB-TOTALS						661	22	57	318	101	7,405.18	7,810.89	5,146.31	1,816.28	4,603.29	319.88	1,474.94	507.86		
TOTALS						1,348			1,102		18,151.89	25,353.48	2,507.52	6,732.55	319.88	3,444.00	1,137.86			

PAVEMENT DELINEATION QUANTITIES PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 REBECCA IGNACIO
 NOEL TAPIA
 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.

LAST REVISION DATE PLOTTED => 26-AUG-2015 15:38
 08-21-15 TIME PLOTTED => 15:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	17	48

Hamed S. Baha 07-29-15
REGISTERED CIVIL ENGINEER DATE

08-31-15
PLANS APPROVAL DATE

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

REMOVE THERMOPLASTIC PAVEMENT MARKING

ROUTE	POSTMILE	TYPE	SQFT
15	R6.82	ARROW I, ARROW IV	70
94	R12.73	ARROW IV, BIKE LANE ARROW, BIKE, LANE	93
125	14.74; R15.35; 18.66	ARROW I, ARROW V, ARROW VI, SIGNAL, AHEAD	350
805	7.76; 12.34	ARROW IV, ARROW VI	102
TOTAL			615

REMOVE PAVEMENT MARKER (EA) (N)

ROUTE	POSTMILE	TYPE					REMARKS
		A	C	D	G	H	
5	R16.91, R17.57	163	4		69	16	
8	2.56	64			38	8	
15	R0.59, 1.48, R3.78, R6.01, R6.82	148	12	40	98	34	
94	1.42, R12.73, 24.66	106		17	27	13	
125	13.80, 14.74, R15.35, 18.66	304	22		174	73	
805	6.06, 7.76, 8.82, 8.83, 11.22, 12.34, 14.38	470	8	76	218	71	
905	3.82, 5.14	93	4		35	55	

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

REMOVE THERMOPLASTIC TRAFFIC STRIPE

ROUTE	POSTMILE	DETAILS	LENGTH (LF)
5	R16.91, R17.57	36, 37 38B	159.13
8	2.56	36, 38B	211.00
15	R6.82	36A, 37, 38	447.40
94	R12.73	38A, 39	491.88
125	14.74, R15.35	36, 37	1,135.38
805	6.06, 8.82, 8.83, 12.34	36, 36A, 37, 38, 38B	1,141.66
905	3.82	36A, 37	191.00
TOTAL			3,777.45

REMOVE PAINTED TRAFFIC STRIPE

ROUTE	POSTMILE	DETAILS	LENGTH (LF)
5	R16.91, R17.57	11, 25, 25(Mod), 27B	2,259.80
8	2.56	11, 25, 25(Mod), 27B, 27B(Mod)	10,187.57
15	R0.59, 1.48, R3.78, R6.01, R6.82	9, 11, 25, 25(Mod), 25A(Mod), 27B, 27B(Mod), 28, 29	4,199.31
94	1.42, R12.73, 24.66	21, 22, 25A(Mod), 27B, 27B(Mod)	2,564.08
125	13.80, 14.74, R15.35, 18.66	11, 25(Mod), 27B, 27B(Mod)	10,184.80
805	6.06, 7.76, 8.82, 8.83, 11.22, 12.34, 14.38	8, 9, 21, 22, 25(Mod), 25A(Mod), 27B(Mod), 44 (Mod)	12,273.54
905	3.82, 5.14	11, 25(Mod), 25A(Mod), 27B(Mod)	6,072.98
TOTAL			47,742.08

THERMOPLASTIC CROSSWALK AND PAVEMENT MARKINGS (ENHANCED WET NIGHT VISIBILITY)

LOCATION				TYPE										REMARKS
ROUTE	DESCRIPTION	BRIDGE No.	POSTMILE	ARROW I - 18' (SQFT)	ARROW IV (SQFT)	ARROW V (SQFT)	ARROW VI (SQFT)	BIKE LANE ARROW (SQFT)	BIKE (SQFT)	LANE (SQFT)	SIGNAL (SQFT)	AHEAD (SQFT)		
15	FRIARS ROAD OC	57 0626	R6.82	25	45									
94	SWEETWATER SPRINGS BLVD OC	57 0574	R12.73		75			7	5	6				
125	LEMON AVE UC	57 0311L	14.74				42							
125	ROUTE 125/8 SEPARATION	57 0950L	R15.35	50										
125	AMAYA DRIVE OC	57 1044	18.66			132					64	62		
805	BONITA ROAD UC	57 0637R	7.76				42							
805	IMPERIAL AVENUE OC	57 0650	12.34		60									
SUB-TOTALS				75	180	132	84	7	5	6	64	62		
TOTAL				615										

PAVEMENT DELINEATION QUANTITIES PDQ-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: ALBERTO GAYON
 REBECCA IGNACIO
 NOEL TAPIA
 CALCULATED/DESIGNED BY: CHECKED BY:
 REVISED BY: DATE REVISED:

	M	
Maint	MAINTENANCE	
Max	MAXIMUM	
MB	METAL BEAM	
MBB	METAL BEAM BARRIER	
MBGR	METAL BEAM GUARD RAILING	
Med	MEDIAN	
MGS	MIDWEST GUARDRAIL SYSTEM	
MH	MANHOLE	
Min	MINIMUM	
Misc	MISCELLANEOUS	
Misc I & S	MISCELLANEOUS IRON AND STEEL	
Mkr	MARKER	
Mod	MODIFIED, MODIFY	
Mon	MONUMENT	
MP	METAL PLATE	
MPGR	METAL PLATE GUARD RAILING	
MR	MOVEMENT RATING	
MSE	MECHANICALLY STABILIZED EMBANKMENT	
Mt	MOUNTAIN, MOUNT	
MtI	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	N	
N	NORTH	
NB	NORTHBOUND	
No.	NUMBER (MUST HAVE PERIOD)	
Nos.	NUMBERS (MUST HAVE PERIOD)	
NPS	NOMINAL PIPE SIZE	
NS	NEAR SIDE	
NSP	NEW STANDARD PLAN	
NTS	NOT TO SCALE	
	O	
Obir	OBLITERATE	
OC	OVERCROSSING	
OD	OUTSIDE DIAMETER	
OF	OUTSIDE FACE	
OG	ORIGINAL GROUND	
OGAC	OPEN GRADED ASPHALT CONCRETE	
OGFC	OPEN GRADED FRICTION COURSE	
OH	OVERHEAD	
OHWM	ORDINARY HIGH WATER MARK	
O-O	OUT TO OUT	
Opp	OPPOSITE	
OSD	OVERSIDE DRAIN	
	P	
p	PAGE	
PAP	PERFORATED ALUMINUM PIPE	
PB	PULL BOX	
PC	POINT OF CURVATURE, PRECAST	
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN	
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE	
PCVC	POINT OF COMPOUND VERTICAL CURVE	
PEC	PERMIT TO ENTER AND CONSTRUCT	
Ped	PEDESTRIAN	
Ped OC	PEDESTRIAN OVERCROSSING	
Ped UC	PEDESTRIAN UNDERCROSSING	
Perm MtI	PERMEABLE MATERIAL	

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	Q	
Qty	QUANTITY	
	R	
R	RADIUS	
R & D	REMOVE AND DISPOSE	
R & S	REMOVE AND SALVAGE	
R/C	RATE OF CHANGE	
RCA	REINFORCED CONCRETE ARCH	
RCB	REINFORCED CONCRETE BOX	
RCP	REINFORCED CONCRETE PIPE	
RCPA	REINFORCED CONCRETE PIPE ARCH	
Rd	ROAD	
Reinf	REINFORCED, REINFORCEMENT, REINFORCING	
Rel	RELOCATE	
Repl	REPLACEMENT	
Ret	RETAINING	
Rev	REVISED, REVISION	
Rdwy	ROADWAY	
RHMA	RUBBERIZED HOT MIX ASPHALT	
Riv	RIVER	
RM	ROAD-MIXED	
RP	RADIUS POINT, REFERENCE POINT	
RR	RAILROAD	
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN	
Rt	RIGHT	
Rte	ROUTE	
RW	REDWOOD, RETAINING WALL	
R/W	RIGHT OF WAY	
Rwy	RAILWAY	

	S	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
±	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
TeI	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	18	48

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 08-31-15

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

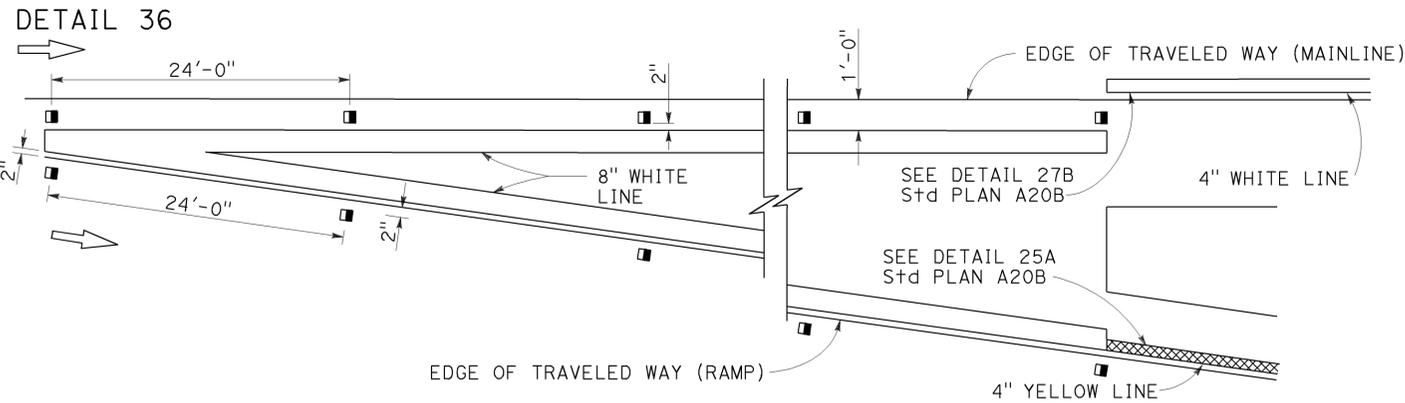
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

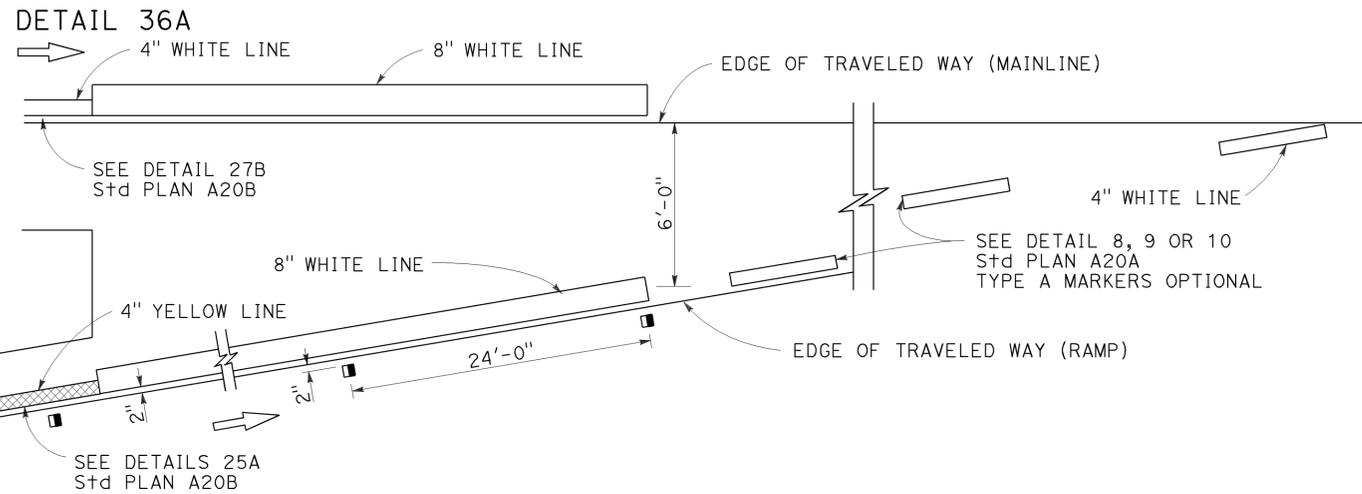
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

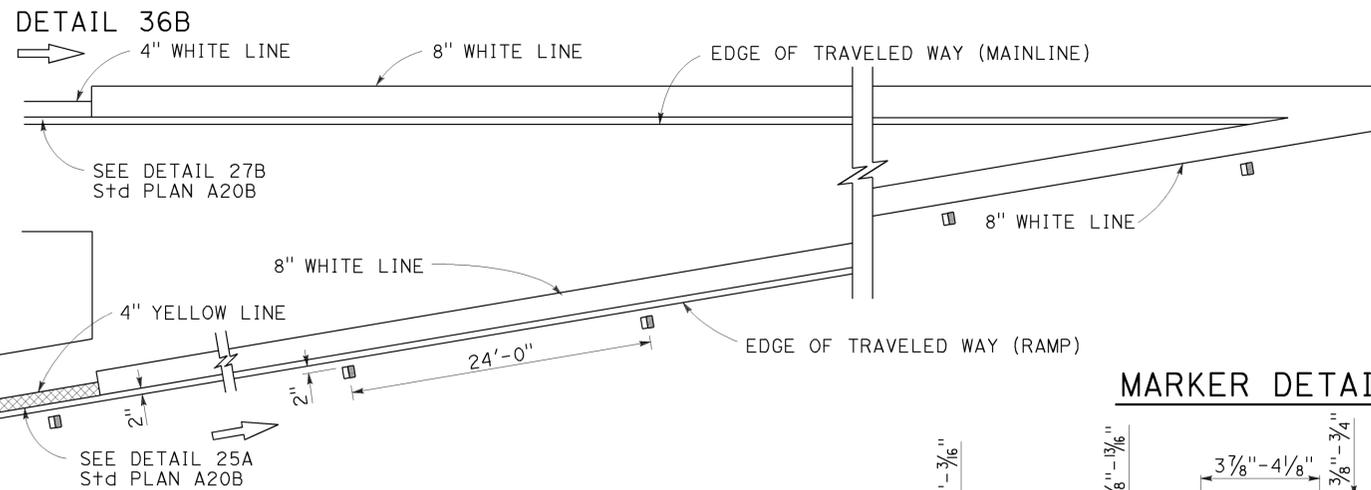
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

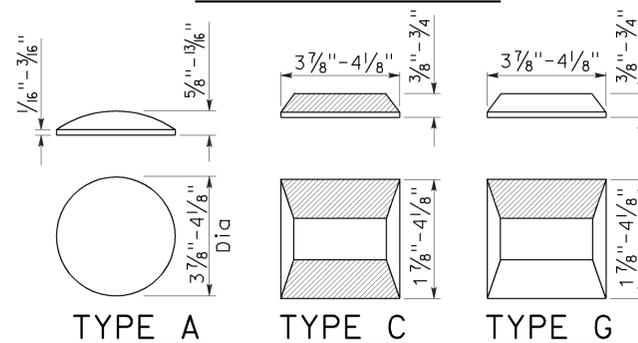


MARKER DETAILS

LEGEND:

MARKERS

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



RETROREFLECTIVE FACE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	19	48

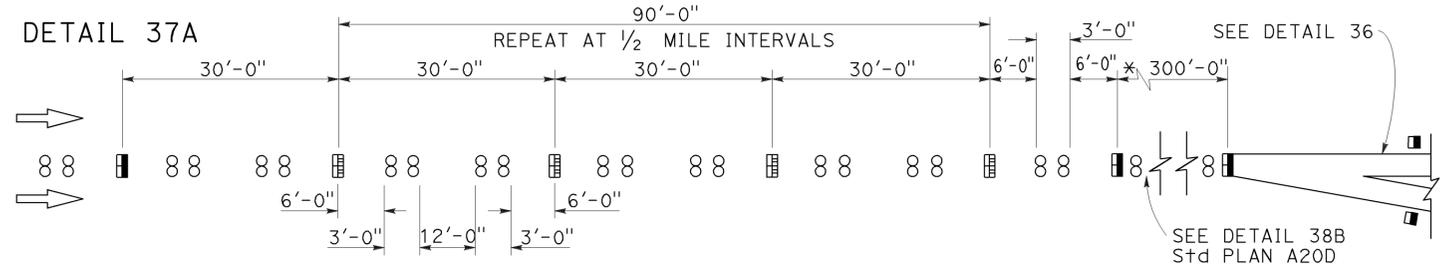
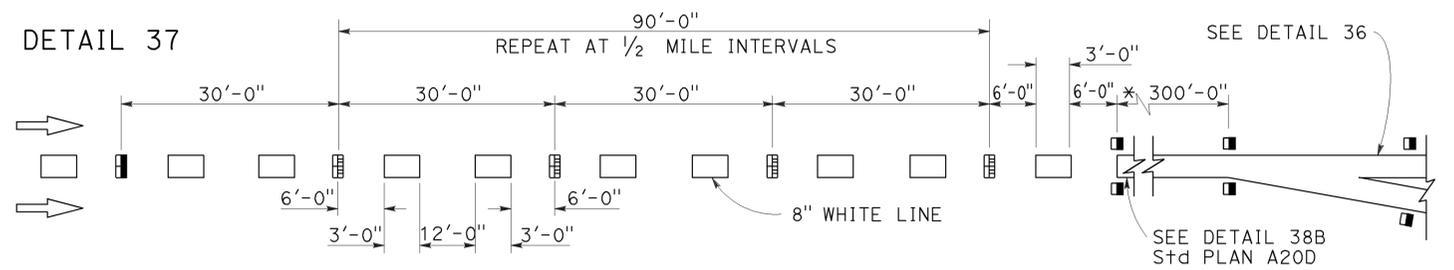
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 No. C40375
 Exp. 3-31-15
 CIVIL
 STATE OF CALIFORNIA

July 19, 2013
 PLANS APPROVAL DATE

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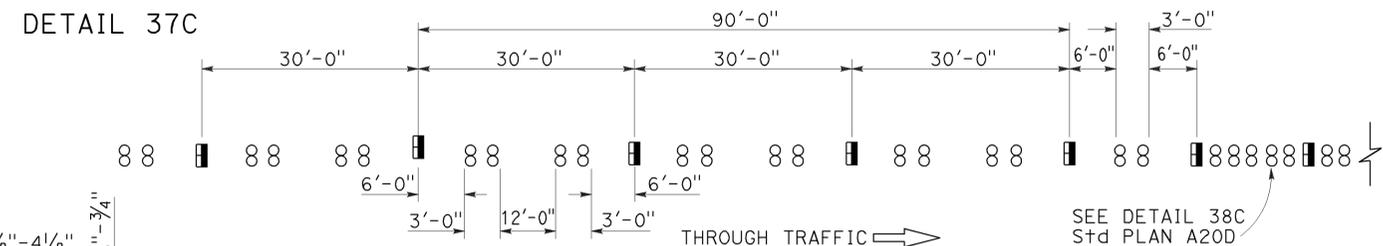
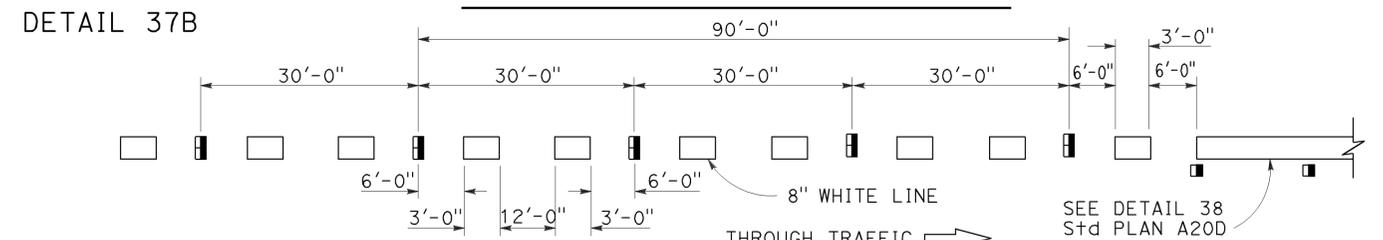
TO ACCOMPANY PLANS DATED 08-31-15

LANE DROP AT EXIT RAMP



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

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

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

REVISED STANDARD PLAN RSP A20C

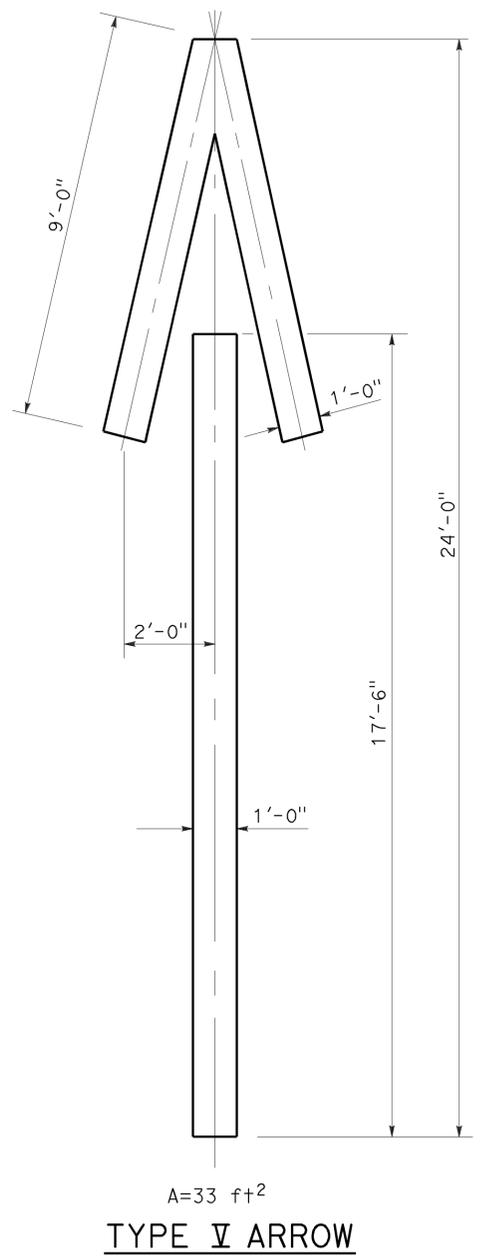
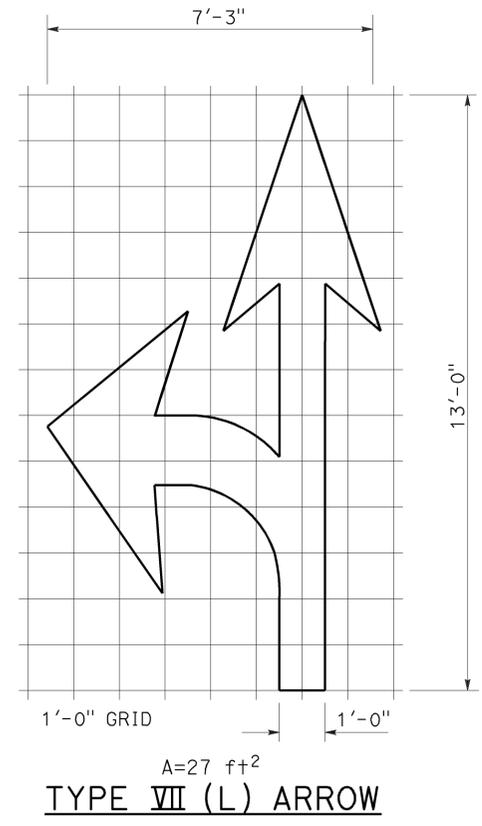
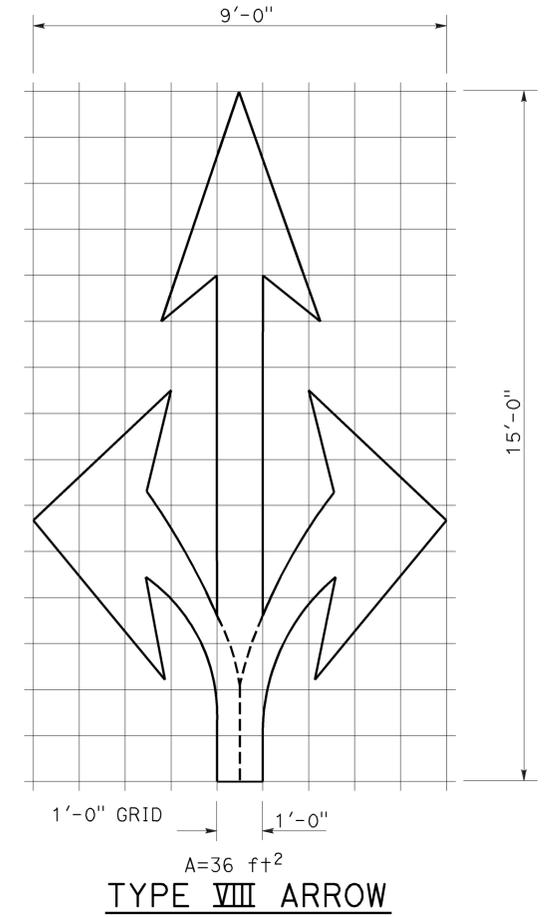
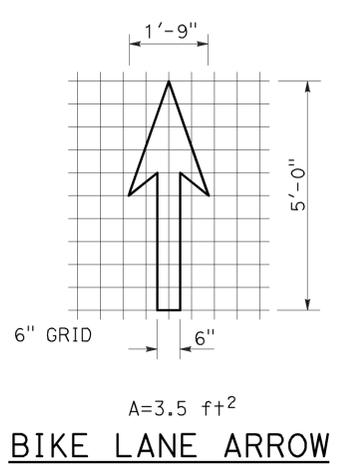
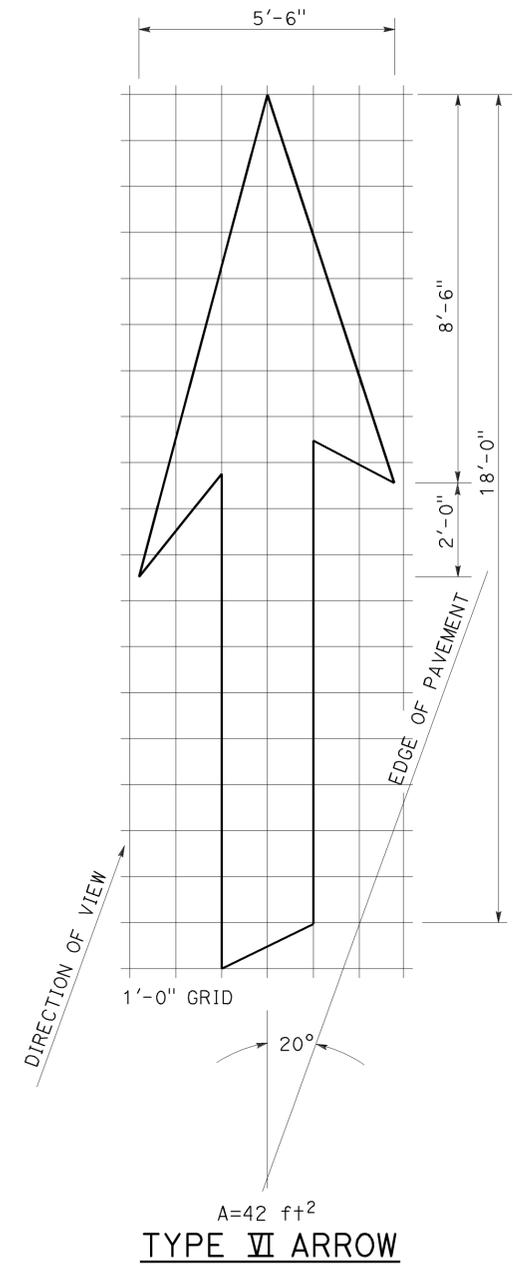
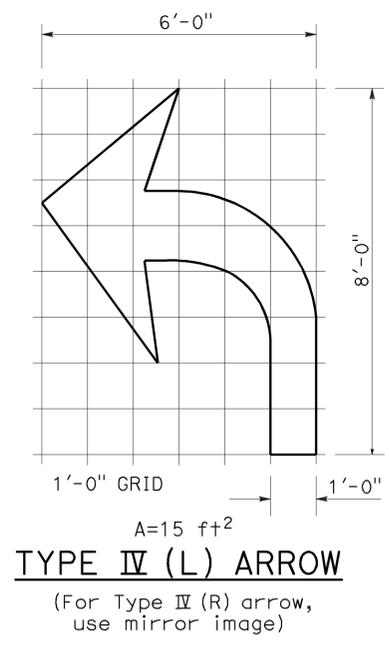
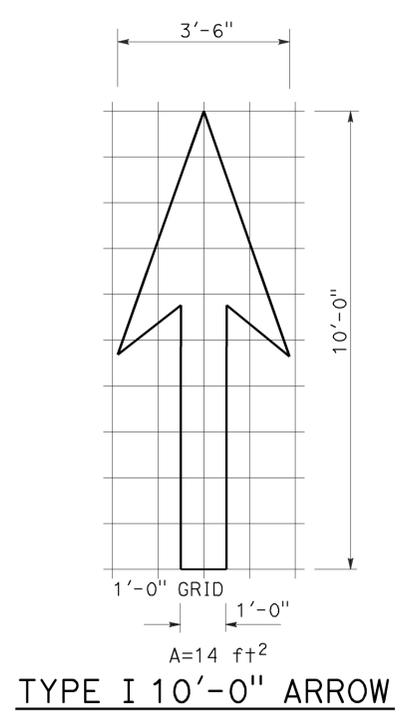
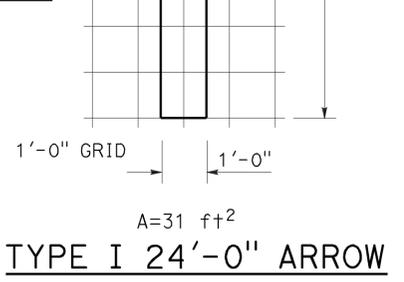
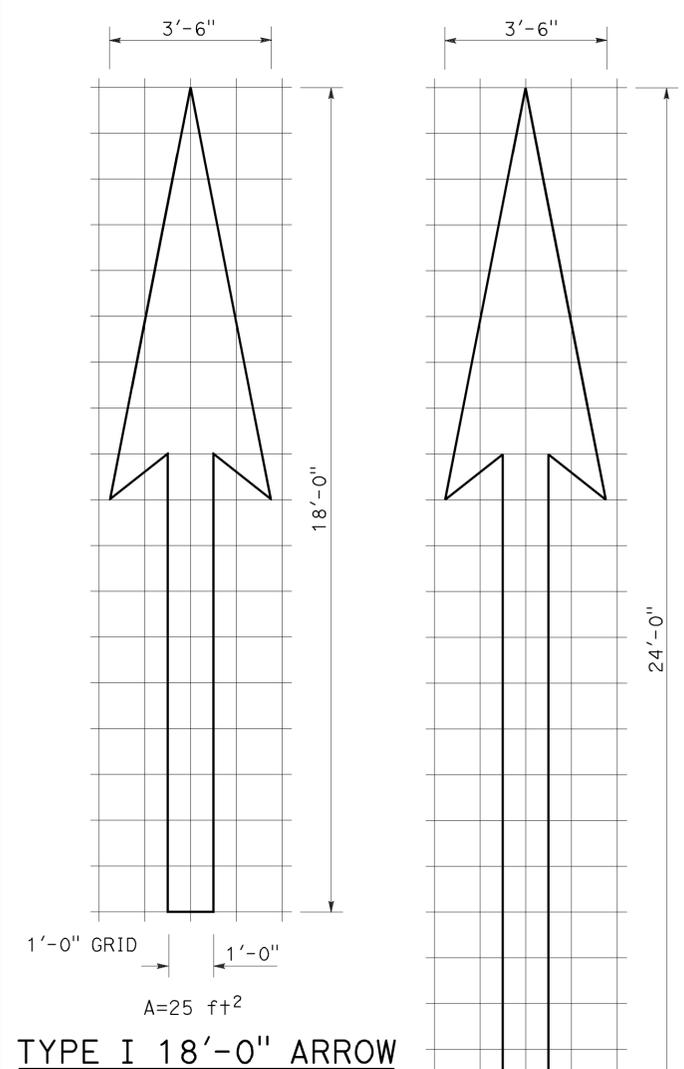
2010 REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	20	48

Robert 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
 Roberta L. McLaughlin
 No. C40375
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 08-31-15

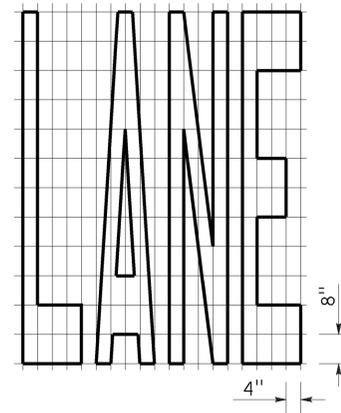


STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

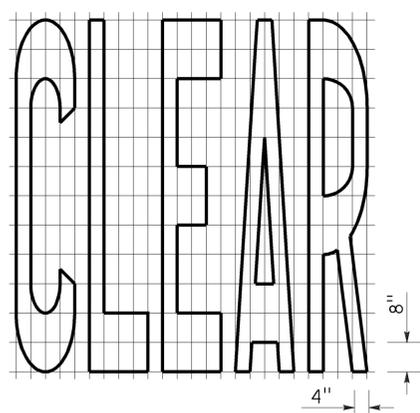
NOTE:
Minor variations in dimensions may be accepted by the Engineer.

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

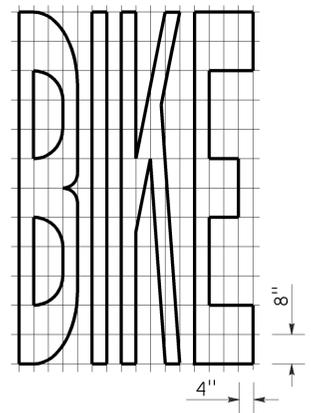
TO ACCOMPANY PLANS DATED 08-31-15



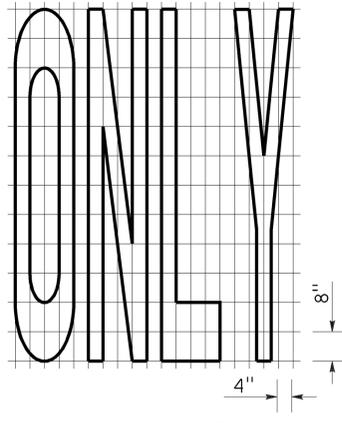
A=24 ft²



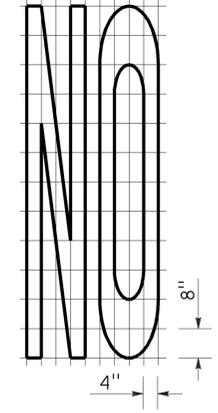
A=27 ft²



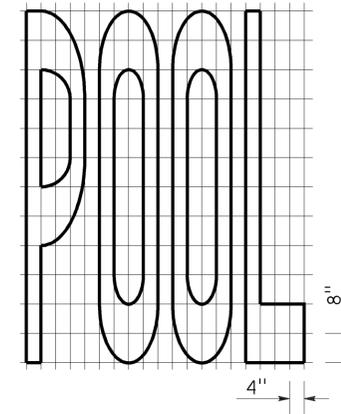
A=21 ft²



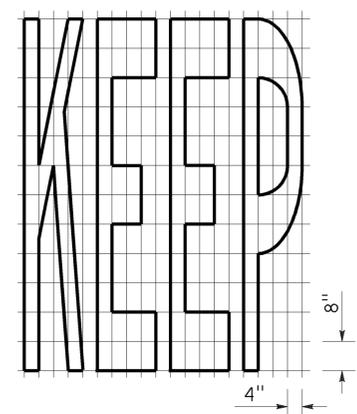
A=22 ft²



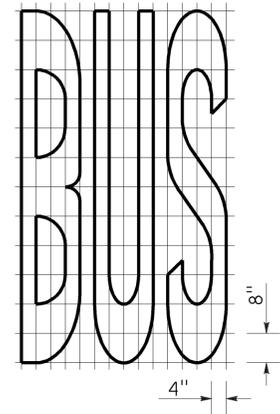
A=14 ft²



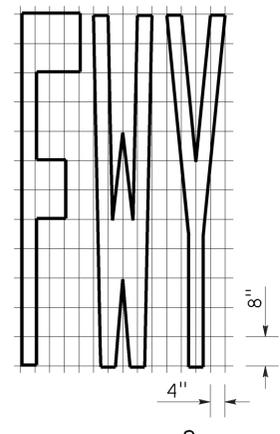
A=23 ft²



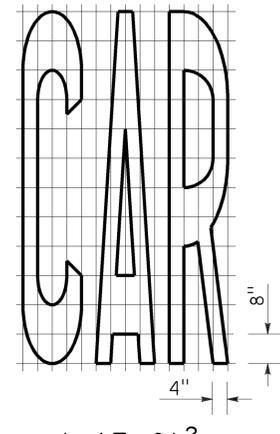
A=24 ft²



A=20 ft²

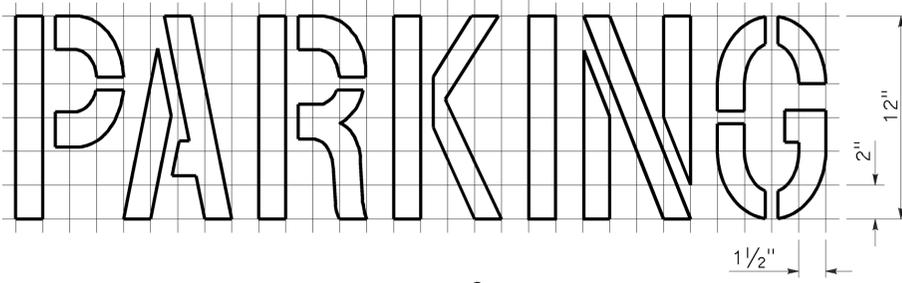
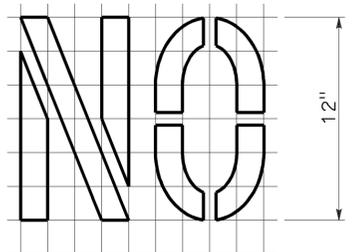


A=16 ft²

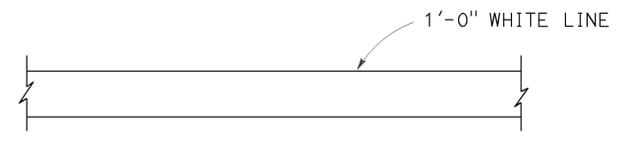


A=17 ft²

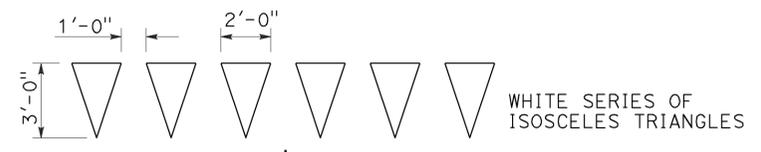
WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

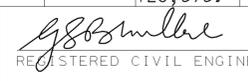
NOTES:

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
11	SD	5,8,15,94, 125, etc.	Var	22	48


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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

TO ACCOMPANY PLANS DATED 08-31-15

TABLE 1

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

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

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

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

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**

NO SCALE

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

REVISED STANDARD PLAN RSP T9

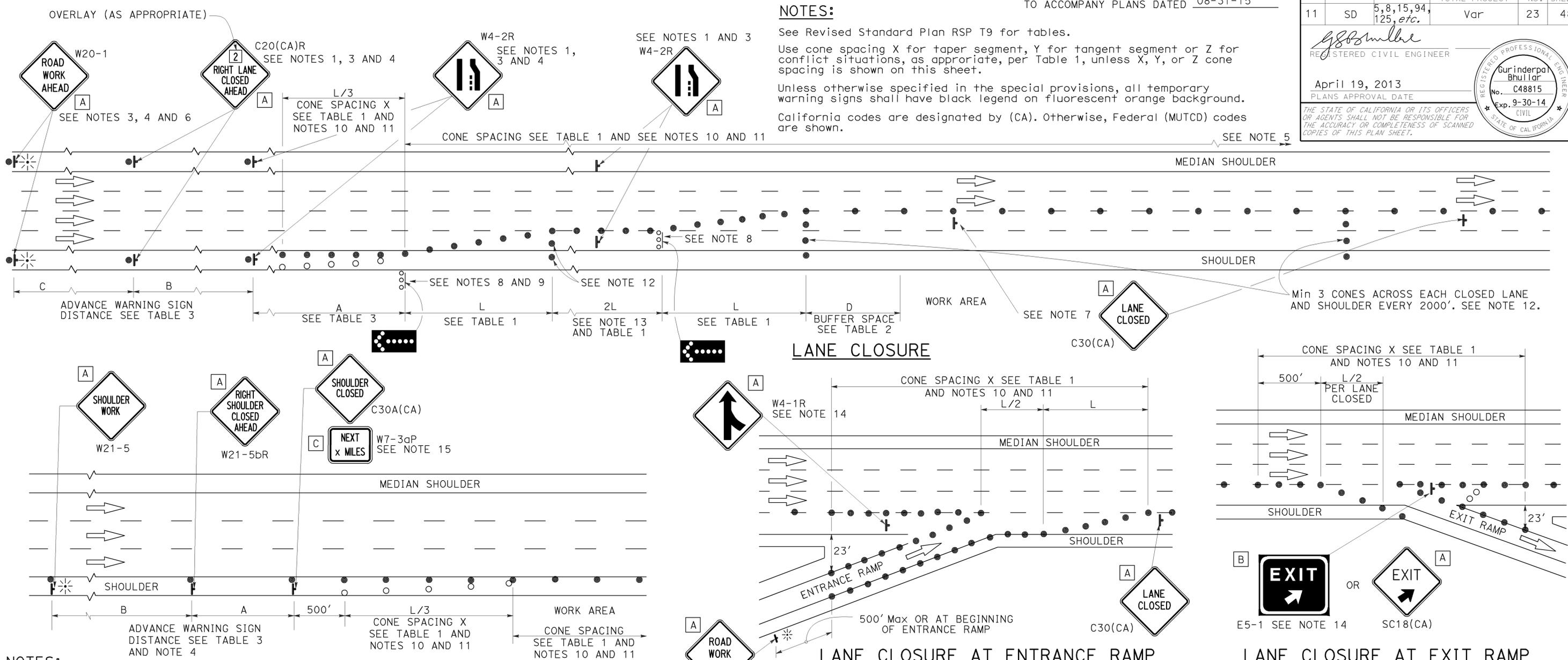
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	23	48

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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



- NOTES:**
1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
 2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 3. Duplicate sign installations are not required:
 - a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

- SHOULDER CLOSURE**
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA)L and W4-2L signs shall be used.
 7. Place a C30(CA) sign every 2000' throughout length of lane closure.
 8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

- LANE CLOSURE AT ENTRANCE RAMP**
- LANE CLOSURE AT EXIT RAMP**
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
 14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
 15. A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

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

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	24	48

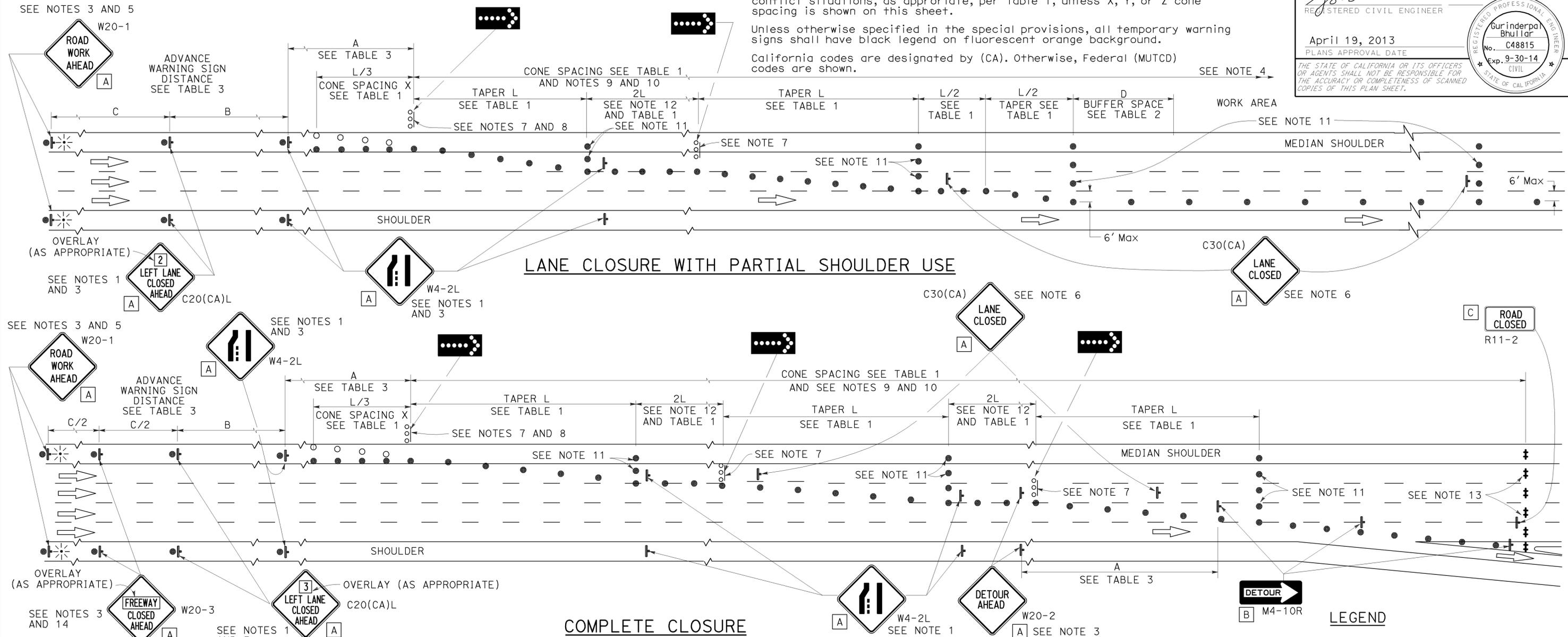
REGISTERED CIVIL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

April 19, 2013
 PLANS APPROVAL DATE

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

NOTES: See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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



- NOTES:**
- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
 - At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 - Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 - A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
 - If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT ___ MILES", use a C20(CA) sign for the first advance warning sign.
 - Place a C30(CA) sign every 2000' throughout length of lane closure.

- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.

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

SIGN PANEL SIZE (Min)

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

LEGEND

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURES ON FREEWAYS AND EXPRESSWAYS

NO SCALE

2010 REVISED STANDARD PLAN RSP T10A

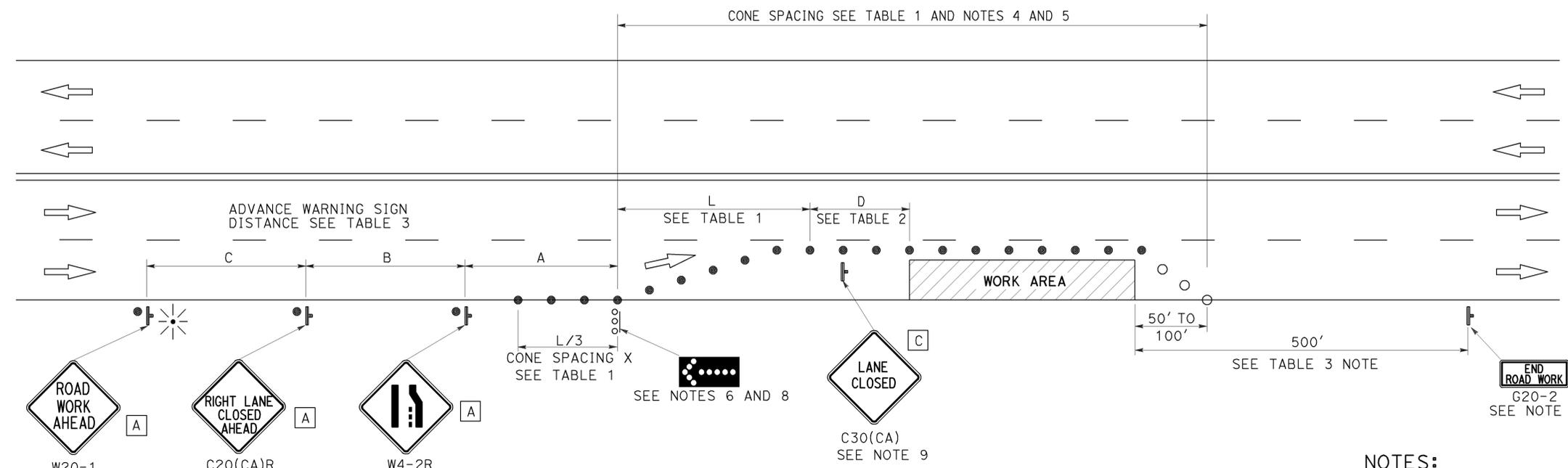
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	25	48

Registered Civil Engineer
 Gurinderpal Bhullar
 No. C48815
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 CIVIL
 STATE OF CALIFORNIA

April 19, 2013
 PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 08-31-15



TYPICAL LANE CLOSURE

NOTES:

- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
- California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

NOTES:

- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow sign shall be either Type I or Type II.
- For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

LEGEND

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

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

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

NO SCALE

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

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

NOTES:

See Revised Standard Plan RSP T9 for tables.

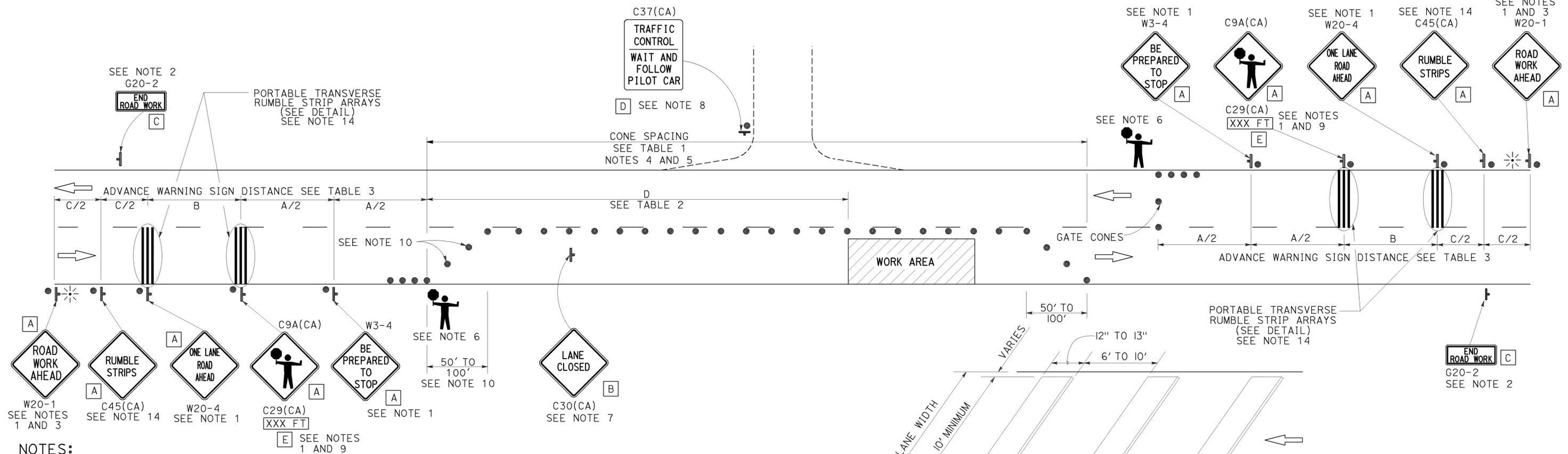
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 08-31-15

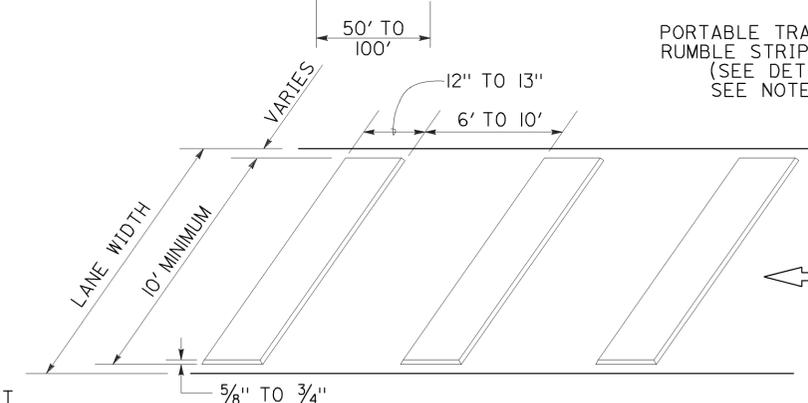


NOTES:

- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions

LEGEND

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



PORTABLE TRANSVERSE RUMBLE STRIP ARRAY DETAIL

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

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

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

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

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⚡ PORTABLE FLASHING BEACON

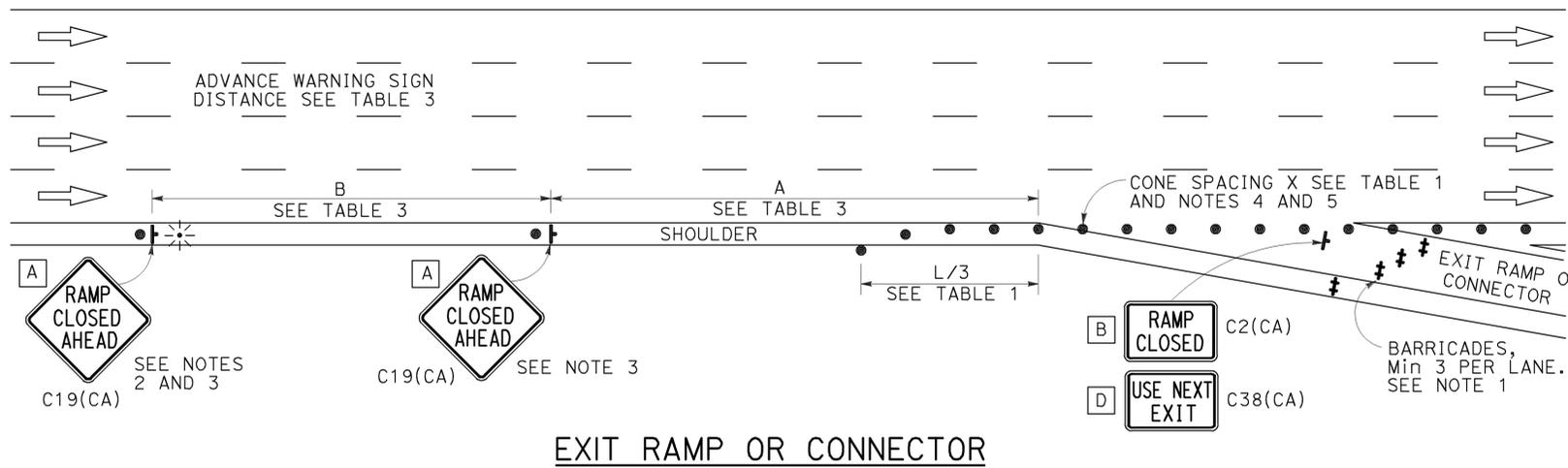
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	27	48

Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

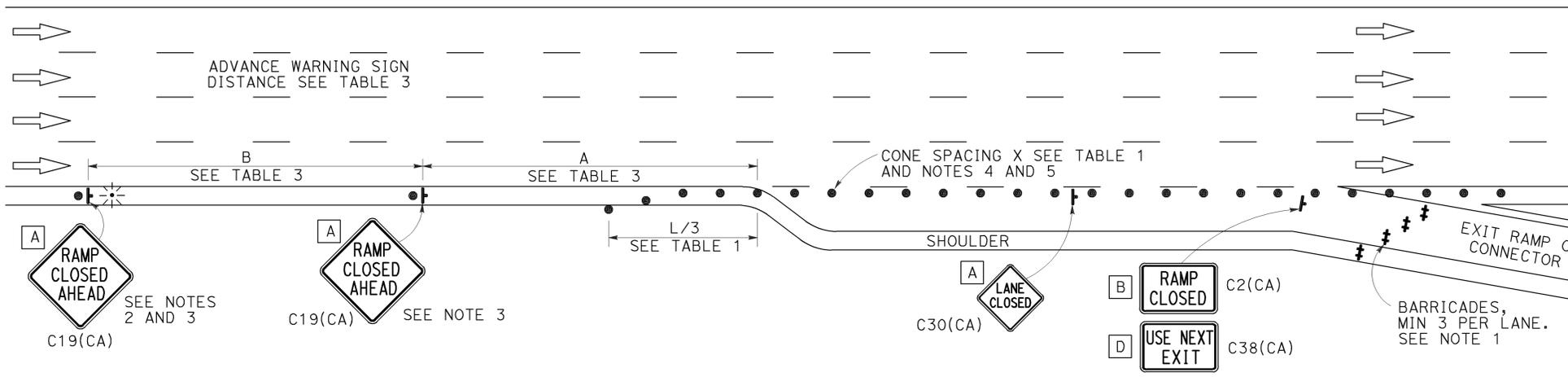
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 08-31-15

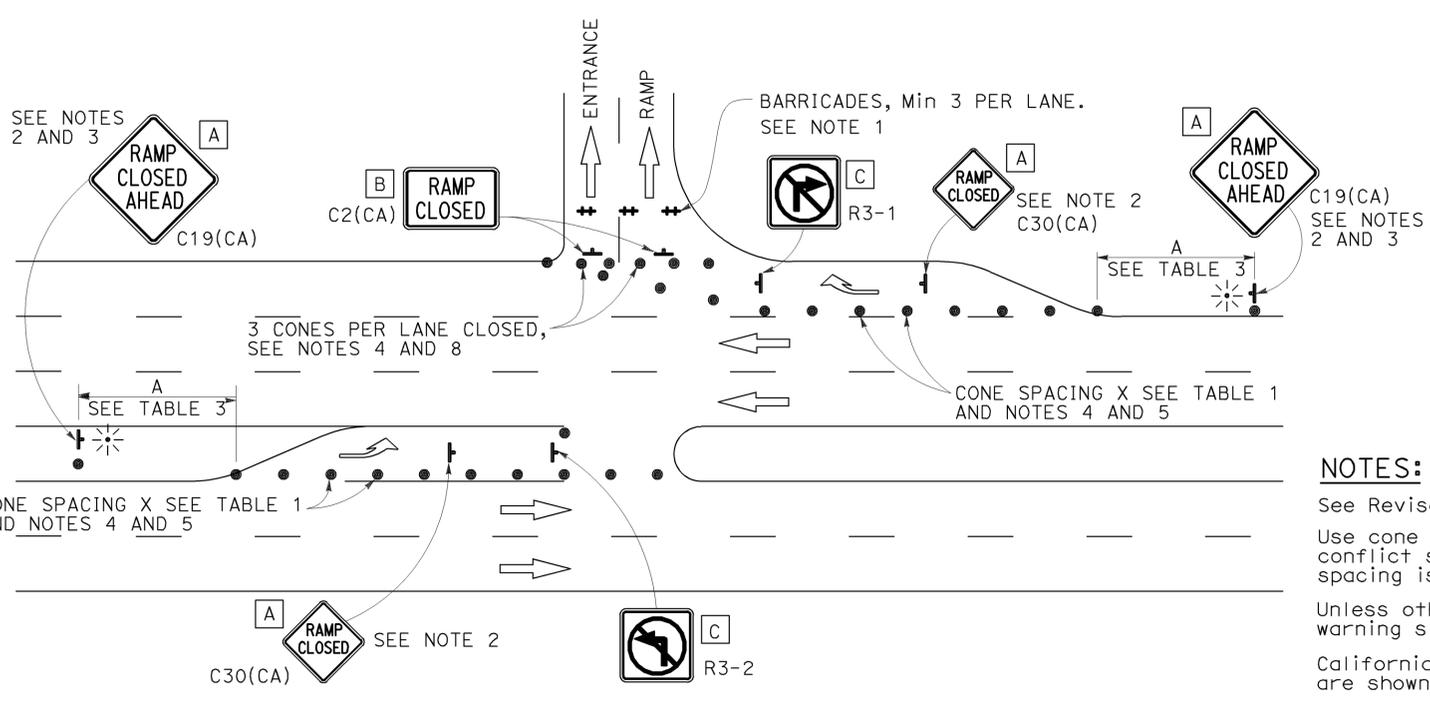
2010 REVISED STANDARD PLAN RSP T14



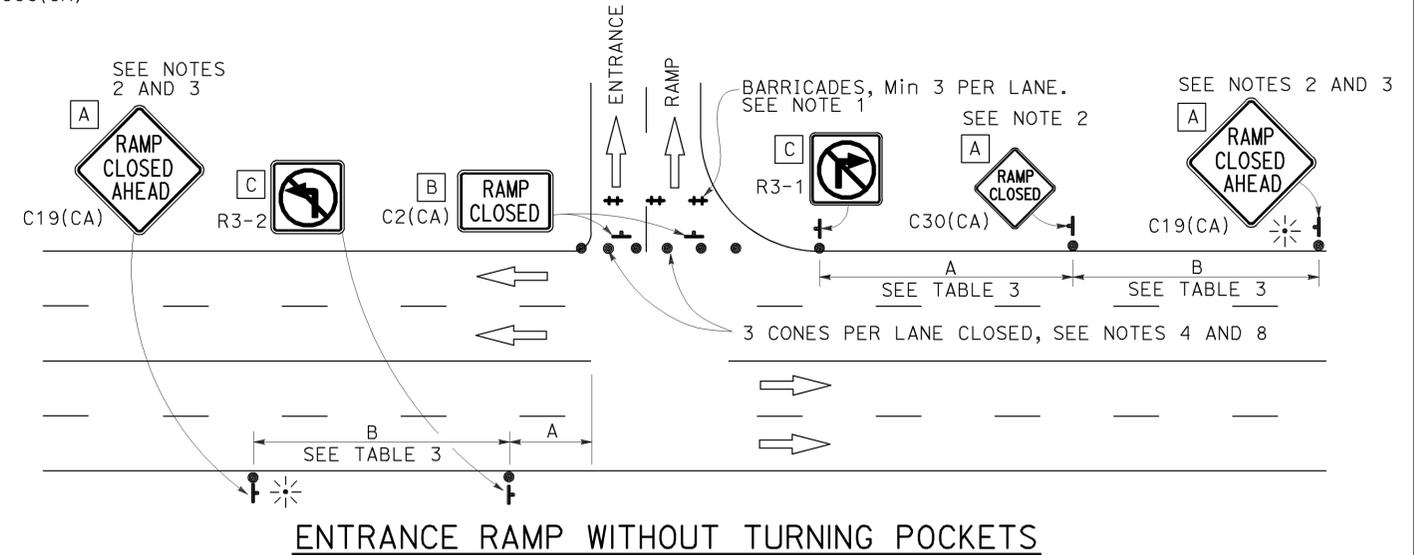
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

1. See Revised Standard Plan RSP T9 for tables.
2. Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
3. Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
4. California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

NOTES:

1. Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
2. In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
3. Each advance C19(CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

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

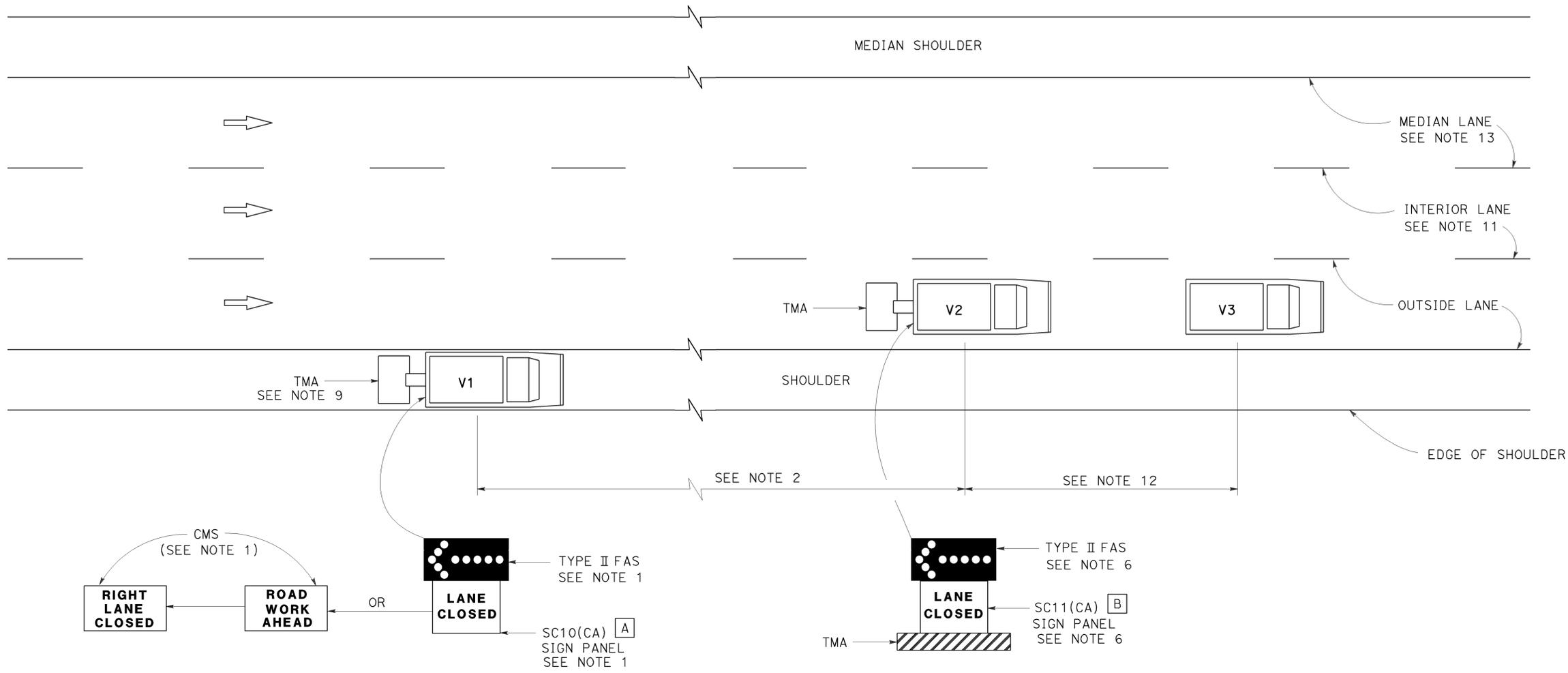
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	28	48

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

April 19, 2013
 PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 08-31-15



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. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
- 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 have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
- Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
- 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.
- All vehicles shall be equipped with flashing or rotating amber lights.
- If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
- Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
- For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
- The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
- When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

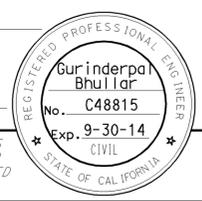
RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15 DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

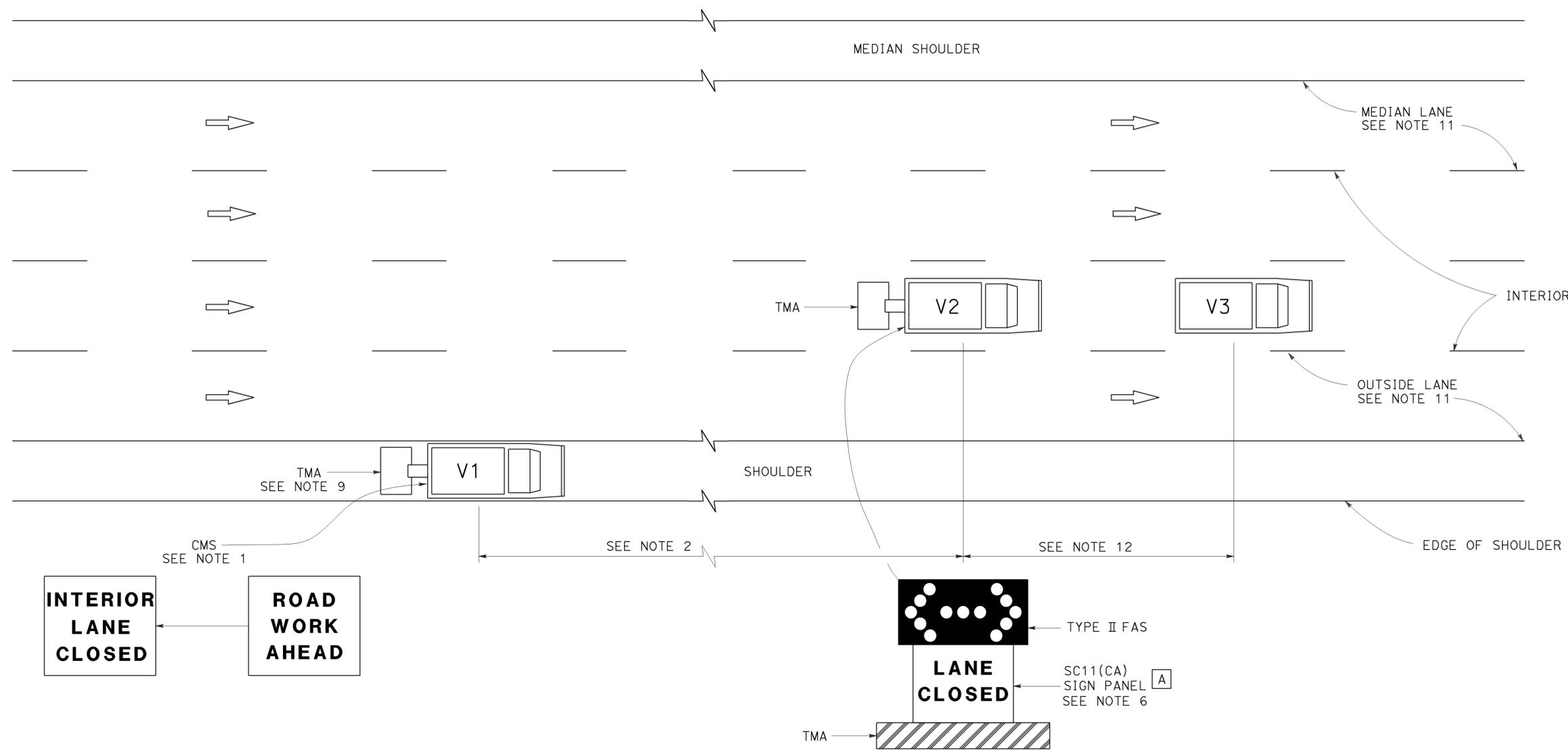
2010 REVISED STANDARD PLAN RSP T15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	29	48

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



TO ACCOMPANY PLANS DATED 08-31-15



SIGN PANEL SIZE (Min)

A 54" x 42"

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 have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11 etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on median lane or outside lane of multilane highways, use Revised Standard Plan T15.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.

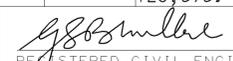
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON MULTILANE HIGHWAYS**
 NO SCALE

RSP T16 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T16 DATED MAY 20, 2011 - PAGE 244 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T16

2010 REVISED STANDARD PLAN RSP T16

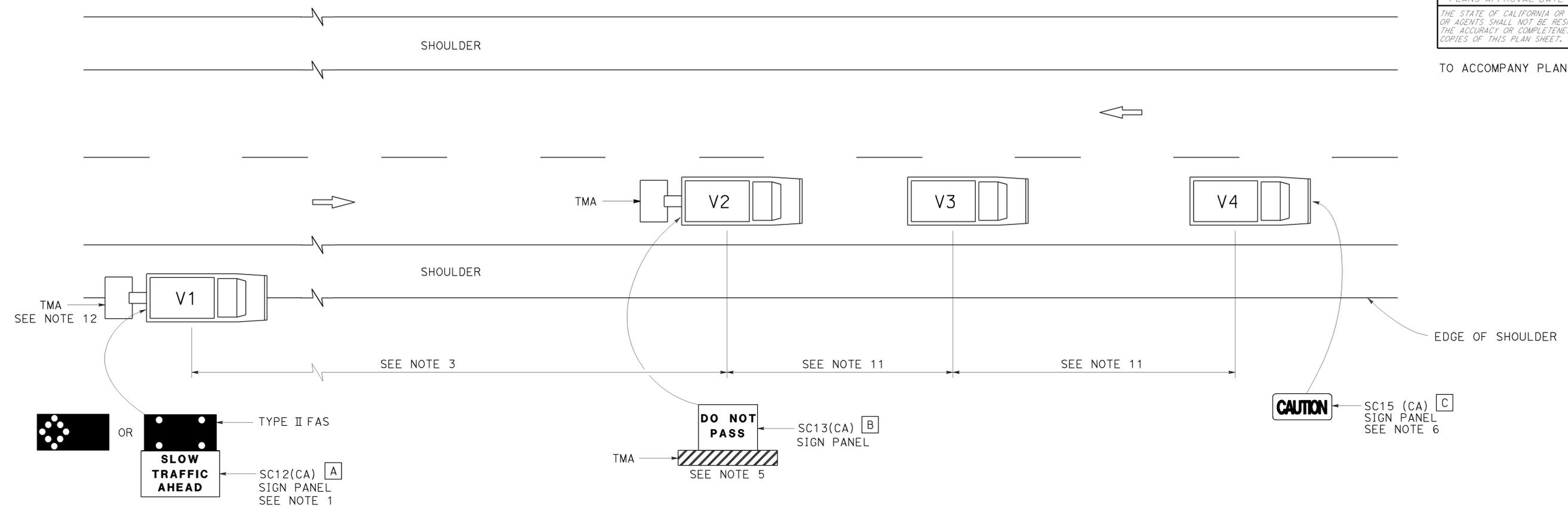
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125, etc.	Var	30	48


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 08-31-15



NOTES:

1. Either a changeable message sign or a SC12(CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. A Type II flashing arrow sign may be used with the SC12(CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Shadow vehicle shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.

7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON TWO LANE HIGHWAYS**
 NO SCALE

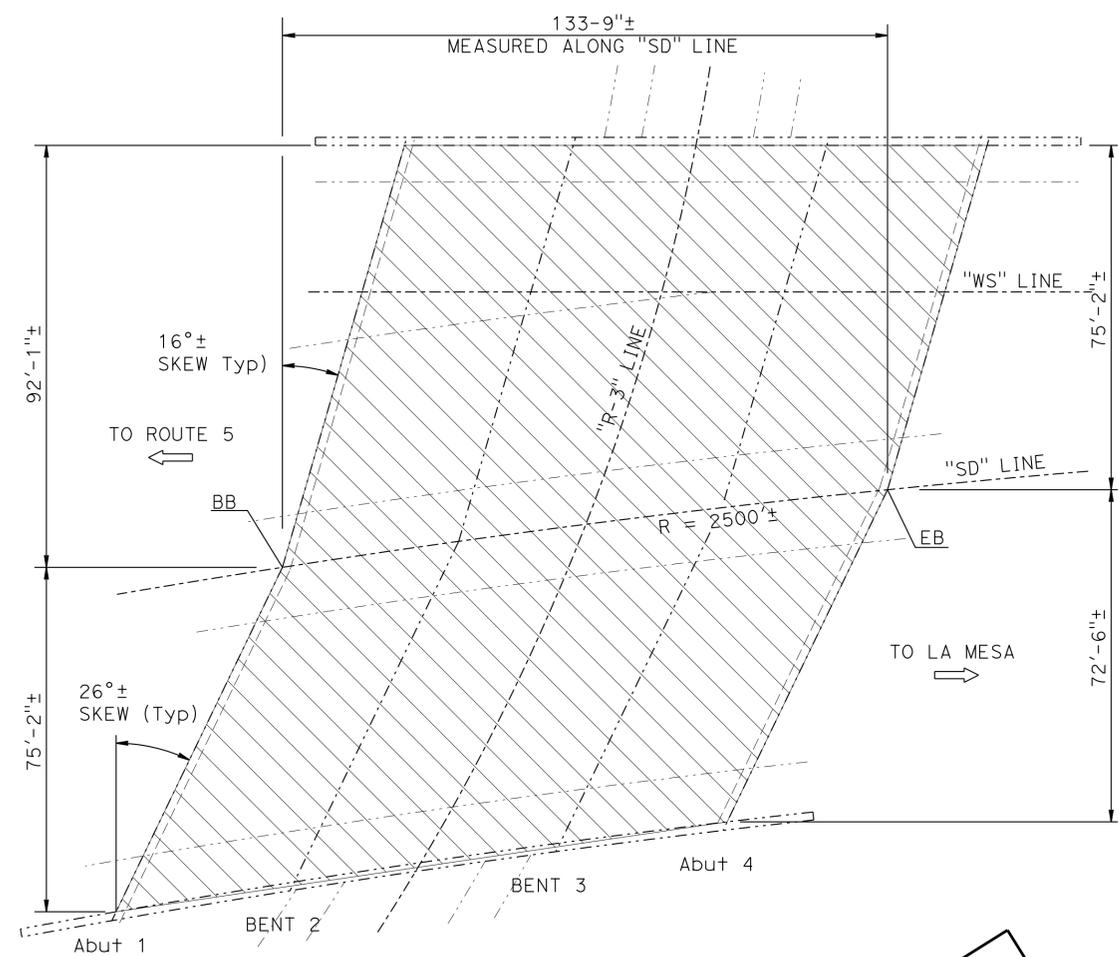
RSP T17 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T17
 DATED MAY 20, 2011 - PAGE 245 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125,805,905	Var	32	48

Huan Vu 5-15-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE
 HUAN VU
 No. 60696
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



LEGEND:

- Indicates Existing Structure
- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
- Location of Construction, see "ROADWAY PLANS"

E8-N163C CONNECTOR RAMP UNDERCROSSING

1"=20'
BRIDGE NO. 57-0358 ROUTE 8 PM 2.56

3

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	19,844	SQFT
TREAT BRIDGE DECK	19,844	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	221	GAL

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

DANIEL T. ADAMS
DESIGN ENGINEER

DESIGN	BY H. VU	CHECKED F. Chen
DETAILS	BY R. KIRKLAND	CHECKED H. VU
QUANTITIES	BY F. Chen	CHECKED H. VU

LOAD & RESISTANCE FACTOR DESIGN	BY H. VU	CHECKED H. VU
LAYOUT	BY H. VU	CHECKED H. VU
SPECIFICATIONS	BY K. Doll	CHECKED H. VU

LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	CHECKED X
PLANS AND SPECS COMPARED	CHECKED X

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	VARIABLES
POST MILE	VARIABLES

**BRIDGE MAINTENANCE
GENERAL PLAN NO. 2**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125,805,905	Var	33	48

REGISTERED CIVIL ENGINEER **Huan VU** DATE 5-15-15
 PLANS APPROVAL DATE 08-31-15
 No. 60696 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

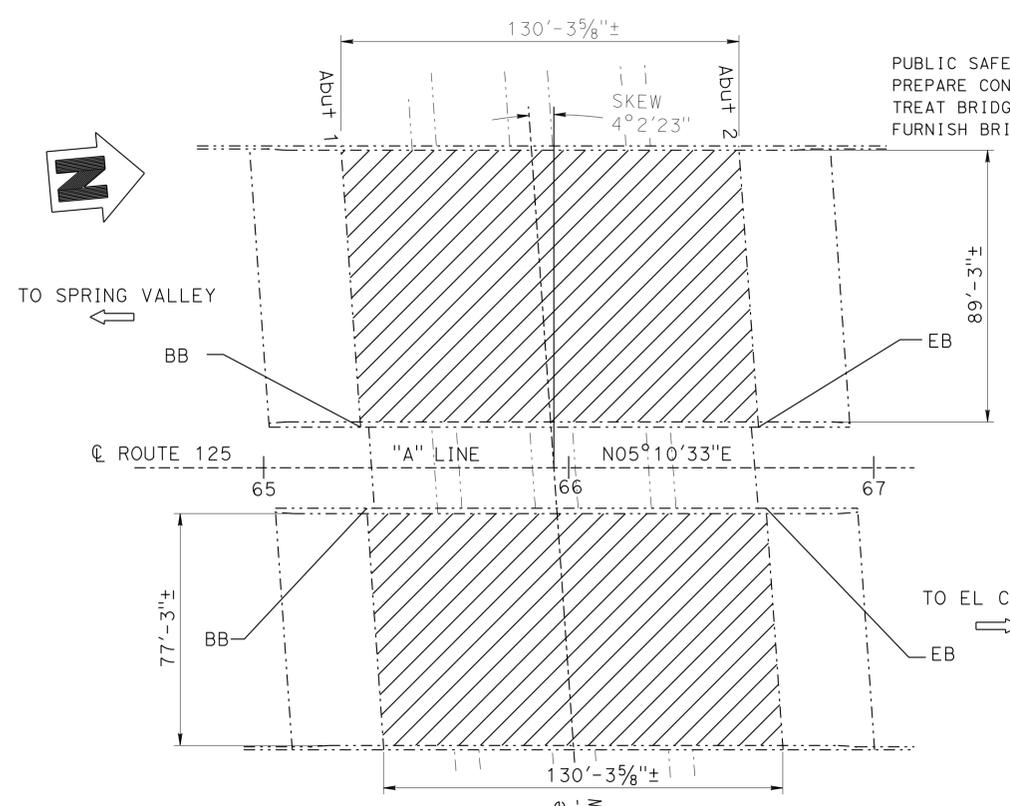
QUANTITIES

PUBLIC SAFETY PLAN
 PREPARE CONCRETE BRIDGE DECK SURFACE
 TREAT BRIDGE DECK
 FURNISH BRIDGE DECK TREATMENT MATERIAL

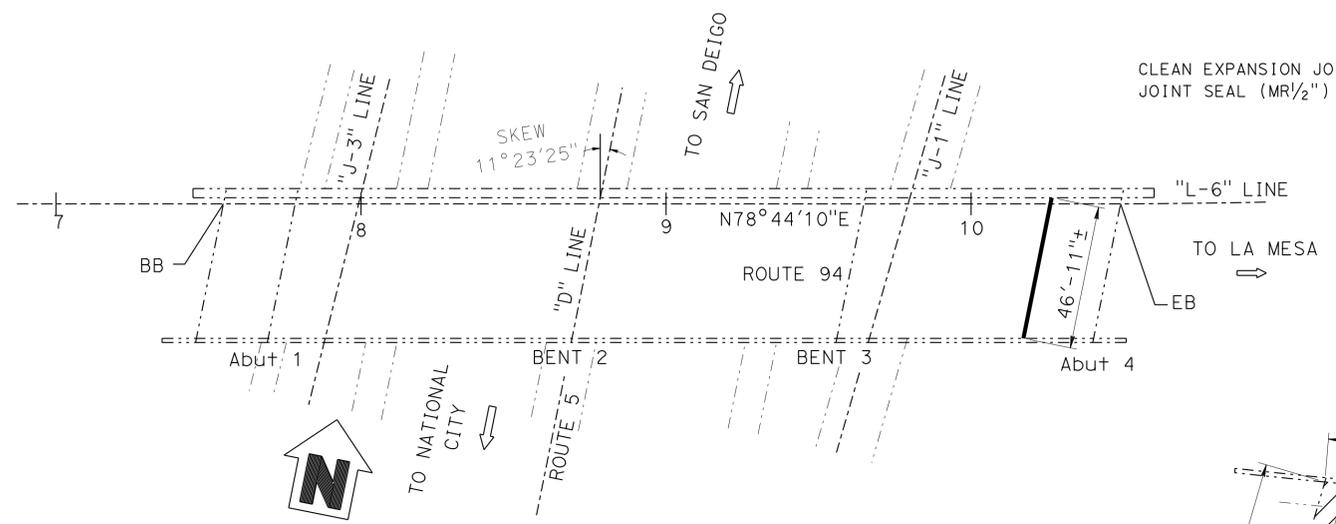
LUMP SUM
 21,716 SQFT
 21,716 SQFT
 241 GAL

LEGEND:

- Indicates existing structure
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
-  Indicates location of existing Joint Seal Removal, clean Expansion Joint, and placement of new Joint Seal.
-  Location of Construction, see "ROADWAY PLANS"



LEMON AVENUE UC
 BRIDGE NO. 57-0311R/L Rte 125 POST MILE 14.74
 1" = 30'-0"

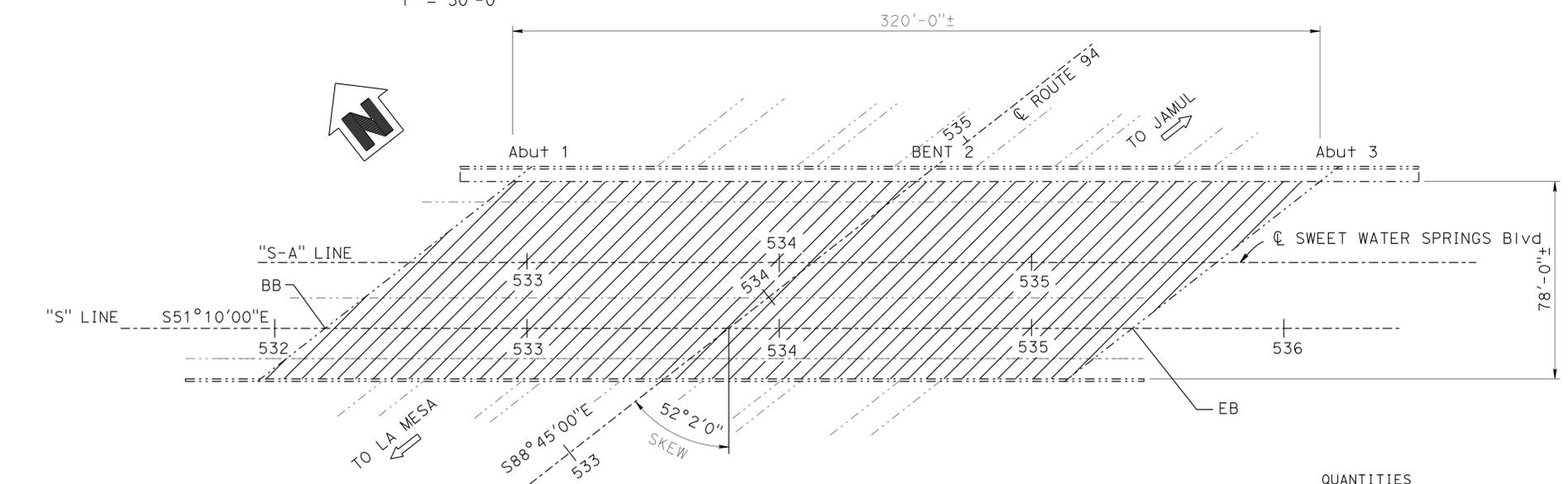


ROUTE 94/5 SEPARATION
 BRIDGE NO. 57-0417R Rte 94 POST MILE 1.42
 1" = 30'-0"

QUANTITIES

CLEAN EXPANSION JOINT
 JOINT SEAL (MR 1/2")

47 LF
 47 LF



SWEETWATER SPRINGS BLVD OC
 BRIDGE NO. 57-0574 Rte 94 POST MILE R12.73
 1" = 30'-0"

PUBLIC SAFETY PLAN
 PREPARE CONCRETE BRIDGE DECK SURFACE
 TREAT BRIDGE DECK
 FURNISH BRIDGE DECK TREATMENT MATERIAL

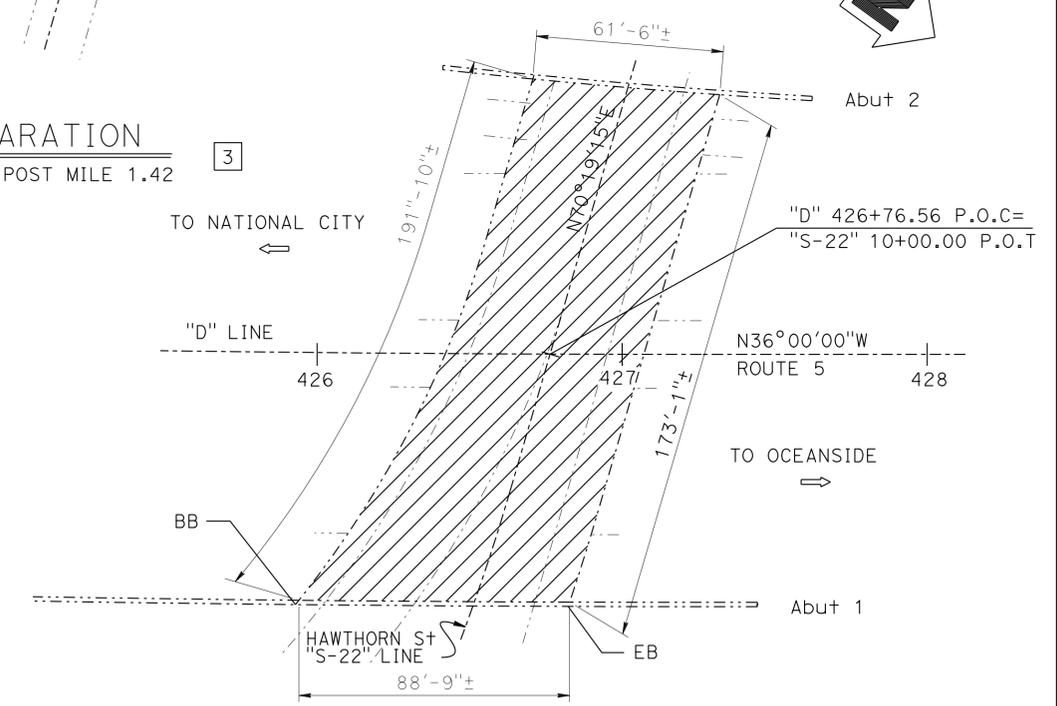
LUMP SUM
 24,960 SQFT
 24,960 SQFT
 277 GAL

QUANTITIES

PUBLIC SAFETY PLAN
 PREPARE CONCRETE BRIDGE DECK SURFACE
 TREAT BRIDGE DECK
 FURNISH BRIDGE DECK TREATMENT MATERIAL

LUMP SUM
 10,988 SQFT
 10,988 SQFT
 122 GAL

QUANTITIES



HAWTHORN STREET UC
 BRIDGE NO. 57-0415 Rte 5 POST MILE R16.91
 1" = 30'-0"

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

DANIEL T. ADAMS
 DESIGN ENGINEER

DESIGN	BY H. VU	CHECKED F. Chen
DETAILS	BY D. Wooten	CHECKED H. VU
QUANTITIES	BY F. Chen	CHECKED H. VU

LOAD & RESISTANCE FACTOR DESIGN	BY H. VU	CHECKED X
LAYOUT	BY H. VU	CHECKED X
SPECIFICATIONS	BY K. Doll	CHECKED X

LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	CHECKED X
PLANS AND SPECS COMPARED	CHECKED X

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

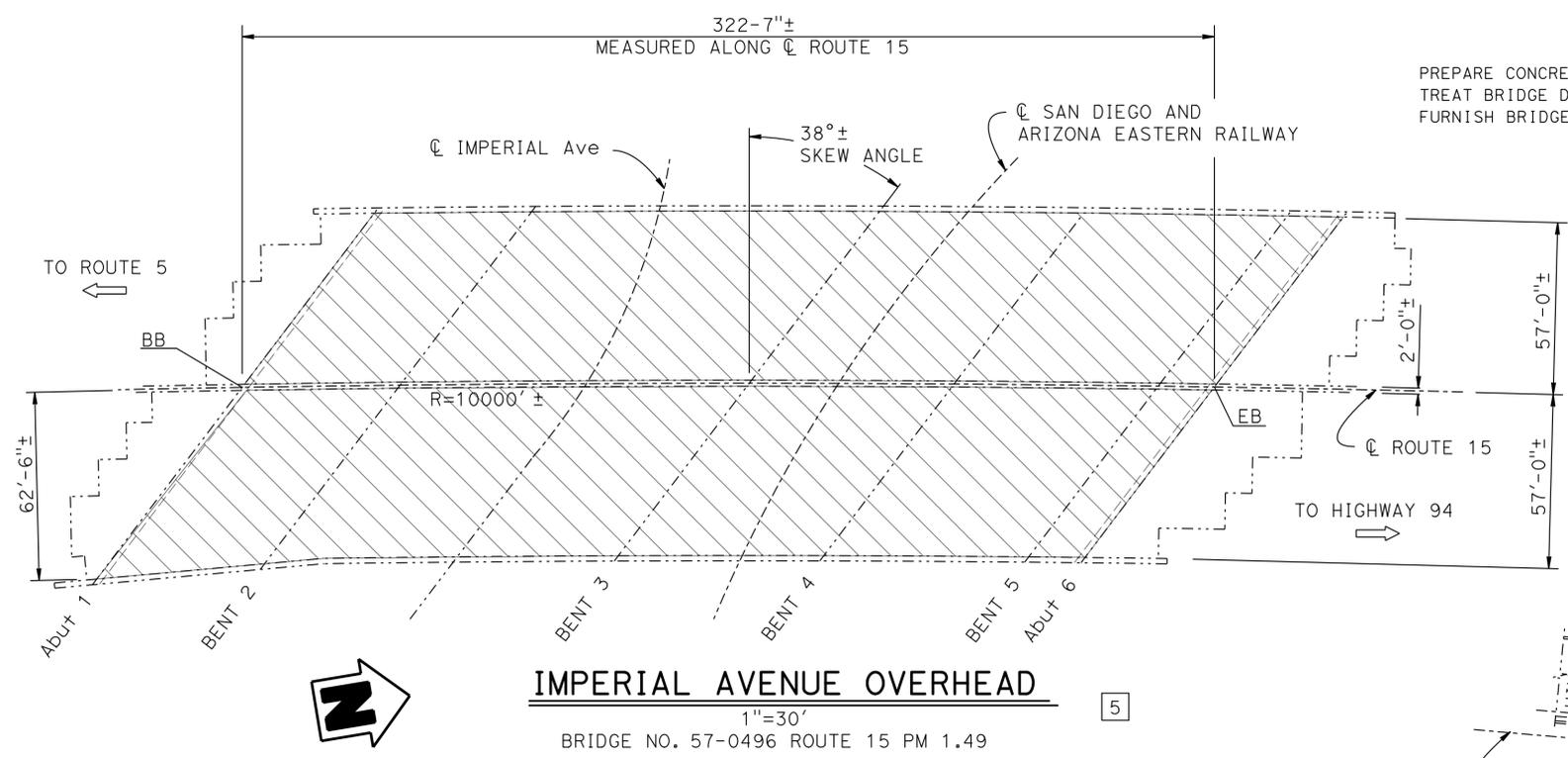
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	VARIES
POST MILE	VARIES

**BRIDGE MAINTENANCE
 GENERAL PLAN NO. 3**

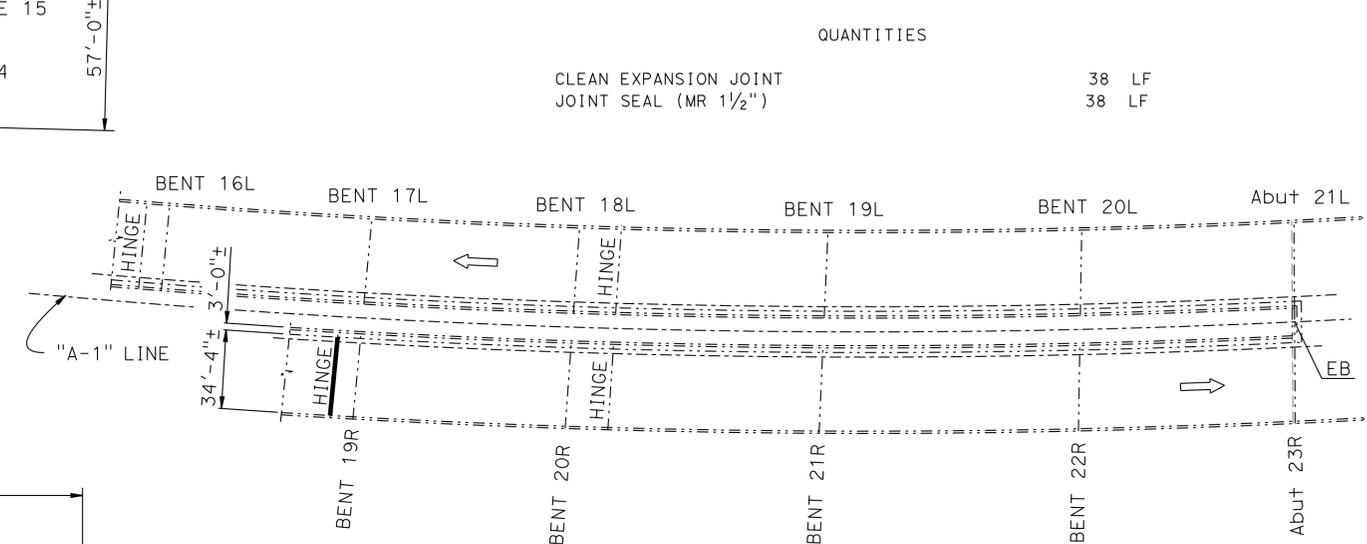
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125,805,905	Var	34	48

REGISTERED CIVIL ENGINEER *Huan VU* DATE 5-15-15
 PLANS APPROVAL DATE 08-31-15
 No. 60696 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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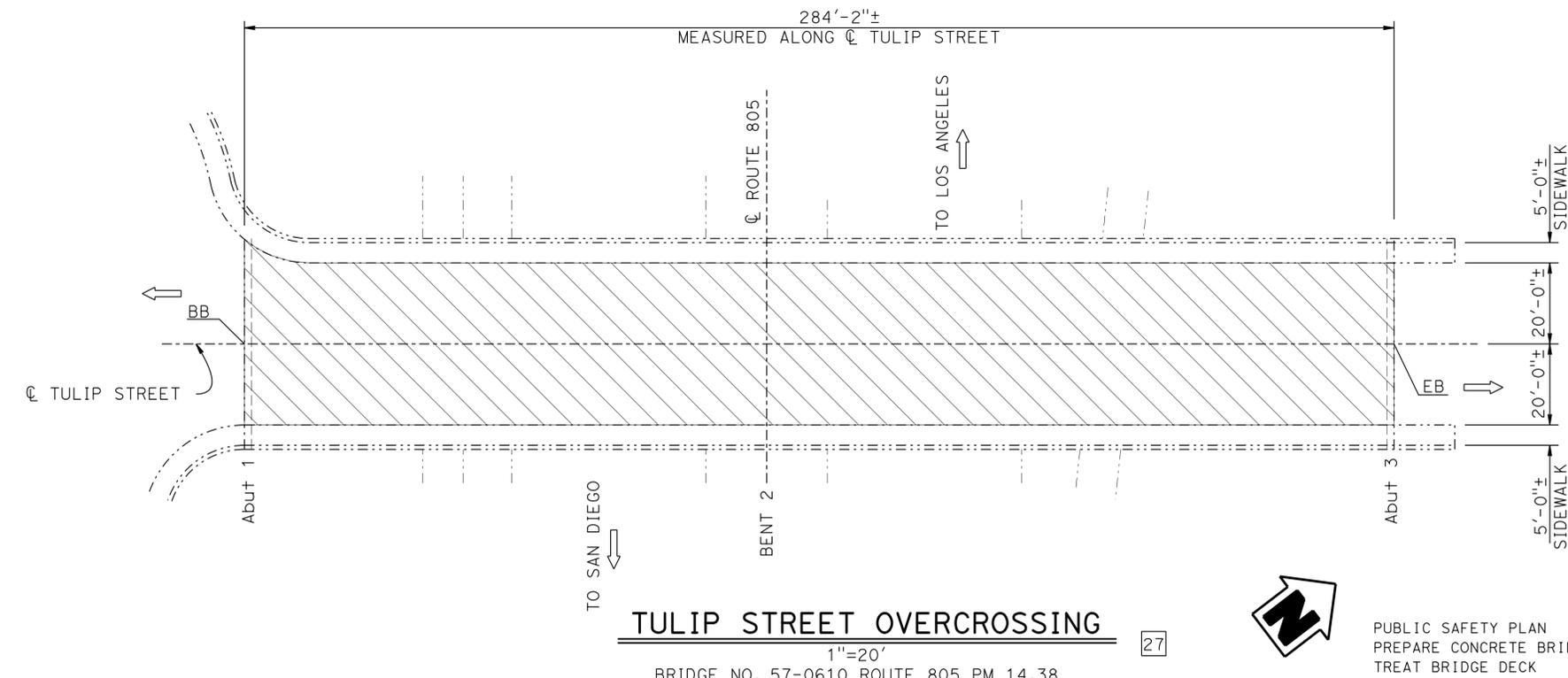
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	36,774	SOFT
TREAT BRIDGE DECK	36,774	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	409	GAL



QUANTITIES

CLEAN EXPANSION JOINT	38	LF
JOINT SEAL (MR 1 1/2")	38	LF



QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	11,367 SQFT
TREAT BRIDGE DECK	11,367 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	126 GAL

- LEGEND:
- Indicates Existing Structure
 - Indicates location of existing Joint Seal Removal, clean Expansion Joint, and placement of new Joint Seal.
 - ▨ Indicates limits of prepare concrete deck surface and treat bridge deck with methacrylate.
 - ⊠ Location of Construction, see "ROADWAY PLANS"

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

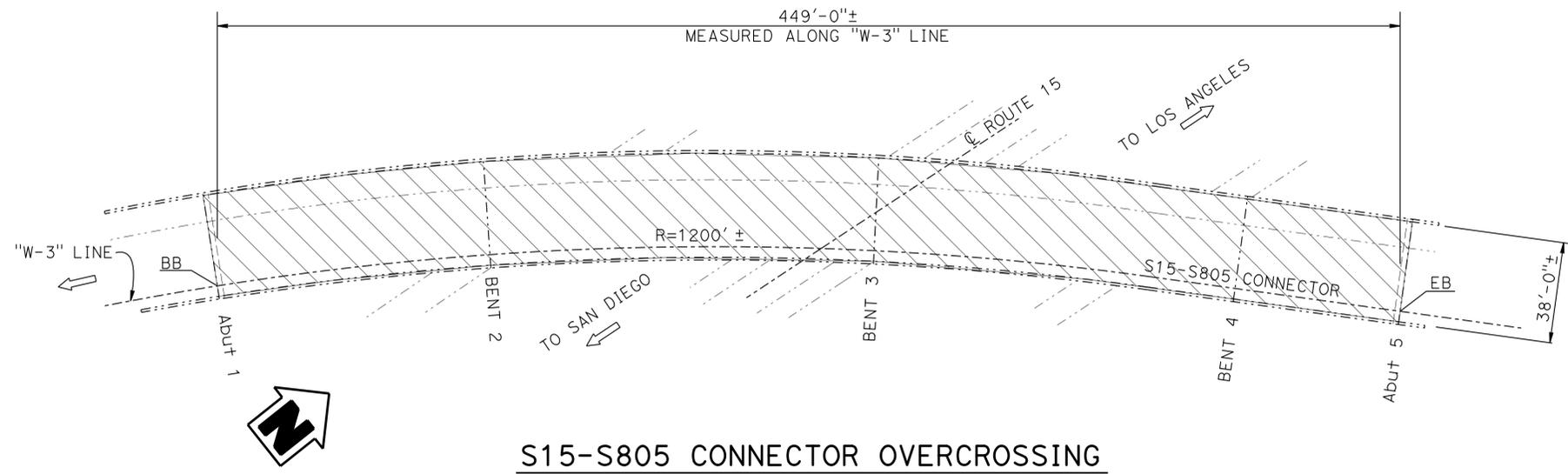
DESIGN	BY H. VU	CHECKED F. Chen	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY R. KIRKLAND	CHECKED H. VU	LAYOUT	BY H. VU
QUANTITIES	BY F. Chen	CHECKED H. VU	SPECIFICATIONS	BY K. Doil

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE MAINTENANCE
GENERAL PLAN NO.4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125,805,905	Var	35	48

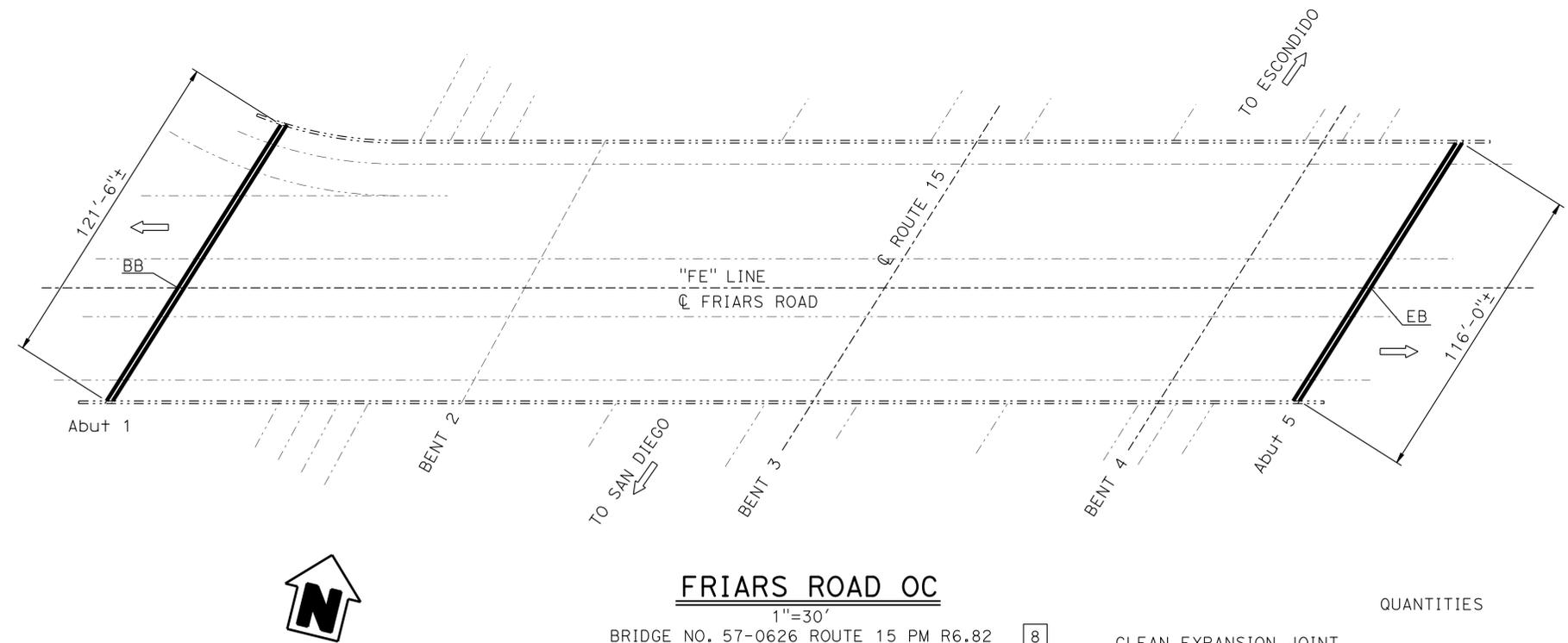
REGISTERED CIVIL ENGINEER: Huan VU DATE: 5-15-15
 PLANS APPROVAL DATE: 08-31-15
 No. 60696 Exp. 12-31-16
 HUAN VU
 CIVIL
 STATE OF CALIFORNIA
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S15-S805 CONNECTOR OVERCROSSING
 1"=30'
 BRIDGE NO. 57-0612F ROUTE 15 PM R3.78 [6]

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	17,062	SQFT
TREAT BRIDGE DECK	17,062	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	190	GAL



FRIARS ROAD OC
 1"=30'
 BRIDGE NO. 57-0626 ROUTE 15 PM R6.82 [8]

QUANTITIES

CLEAN EXPANSION JOINT	476	LF
BONDED JOINT SEAL (MR 1 1/2")	232	LF
BONDED JOINT SEAL (MR 2")	244	LF

- LEGEND:**
- Indicates Existing Structure
 - Indicates location of existing Joint Seal Removal, clean Expansion Joint, and placement of new bonded Joint Seal.
 - Indicates limits of prepare concrete deck surface and treat bridge deck with methacrylate.
 - Location of Construction, see "ROADWAY PLANS"

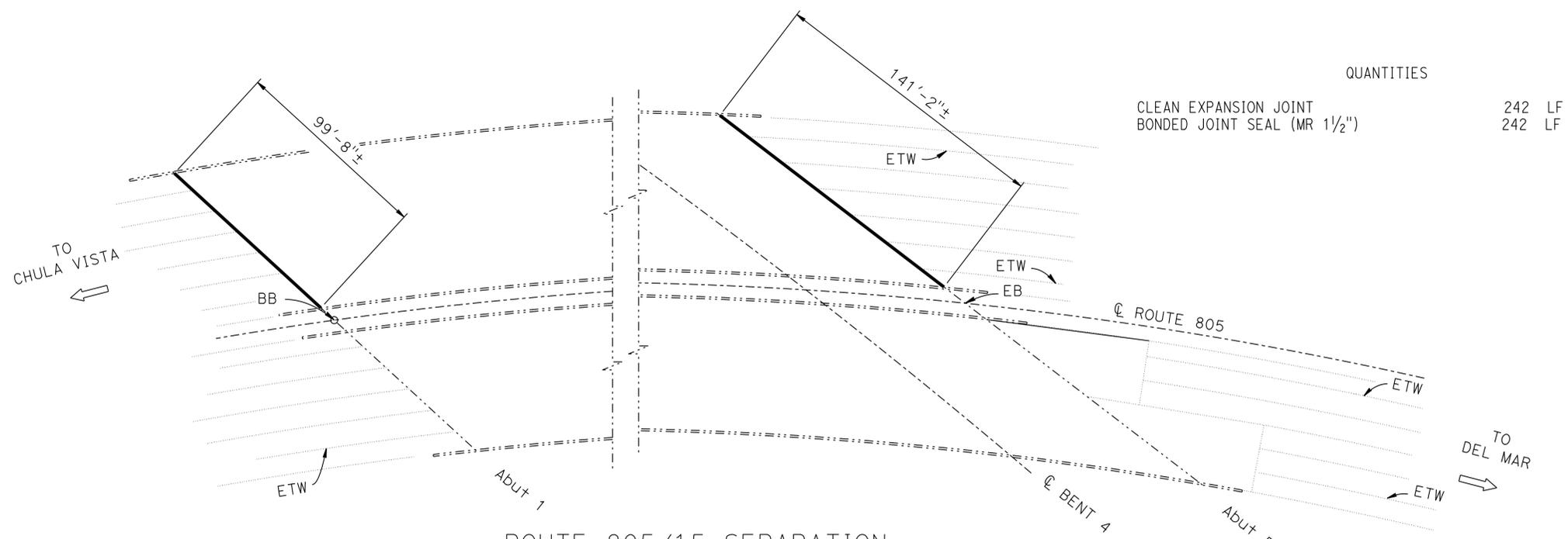
NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DANIEL T. ADAMS DESIGN ENGINEER	DESIGN	BY H. VU	CHECKED F. Chen	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	BRIDGE MAINTENANCE GENERAL PLAN NO.5			
	DETAILS	BY R. KIRKLAND	CHECKED H. VU	LAYOUT	BY H. VU			VARIES				
	QUANTITIES	BY F. Chen	CHECKED H. VU	SPECIFICATIONS	BY K. Doil			VARIES				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0 1 2 3	UNIT: 3589	PROJECT NUMBER & PHASE: 1114000052 1	CONTRACT NO.: 11-2M7304	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 5 OF 18

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.09-01-10) FILE => 11-2m7304gpp05.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125,805,905	Var	36	48

REGISTERED CIVIL ENGINEER *Huan VU* DATE 5-15-15
 PLANS APPROVAL DATE 08-31-15
 HUAN VU No. 60696 Exp. 12-31-16 CIVIL
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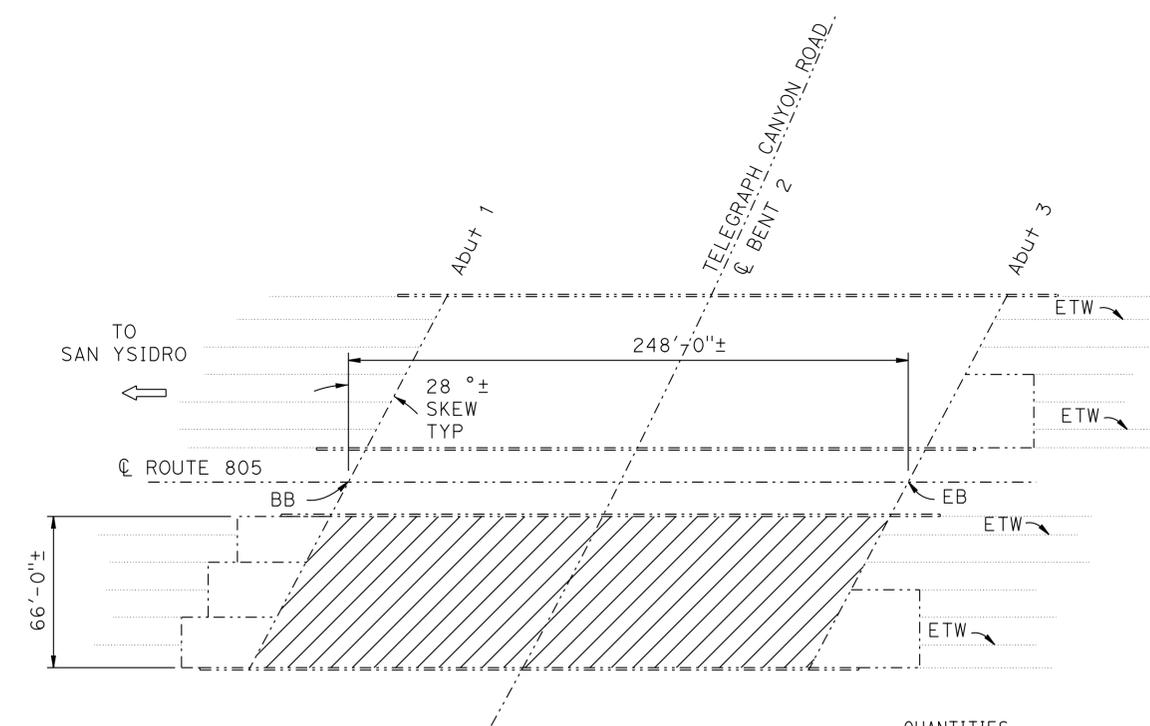


QUANTITIES

CLEAN EXPANSION JOINT	242 LF
BONDED JOINT SEAL (MR 1 1/2")	242 LF

- LEGEND:
- Indicates existing.
 - [Hatched Area] Indicates limits of prepare concrete deck surface and treat bridge deck with methacrylate.
 - [Solid Line] Indicates location of existing Joint Seal Removal, clean Expansion Joint and placement of new bonded Joint Seal.
 - [X] Location of Construction, see "ROADWAY PLANS"

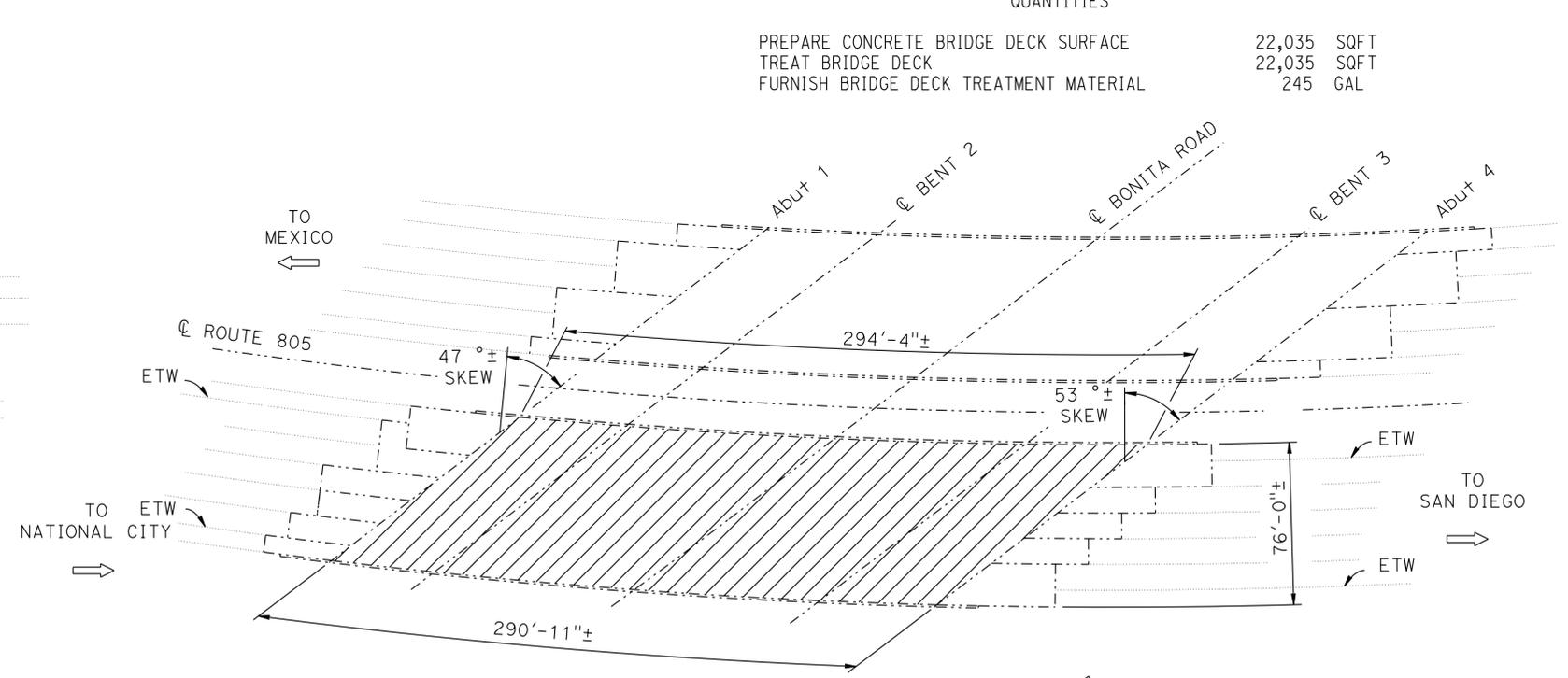
ROUTE 805/15 SEPARATION
 BRIDGE NO. 57-0611L RTE 805 PM 14.59
 1" = 40'



QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	16,368 SQFT
TREAT BRIDGE DECK	16,368 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	182 GAL

TELEGRAPH CANYON ROAD UC
 BRIDGE NO. 57-0635R RTE 805 POST MILE 6.06
 1" = 40'



QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	22,035 SQFT
TREAT BRIDGE DECK	22,035 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	245 GAL

BONITA ROAD UC
 BRIDGE NO. 57-0637R RTE 805 POST MILE 7.76
 1" = 40'

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

DANIEL T. ADAMS DESIGN ENGINEER	DESIGN	BY H. VU	CHECKED F. Chen	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	BRIDGE MAINTENANCE GENERAL PLAN NO.6
	DETAILS	BY D. Wooten	CHECKED H. VU	LAYOUT	BY H. VU			VARIABLES	
	QUANTITIES	BY F. Chen	CHECKED H. VU	SPECIFICATIONS	BY K. Doll			VARIABLES	

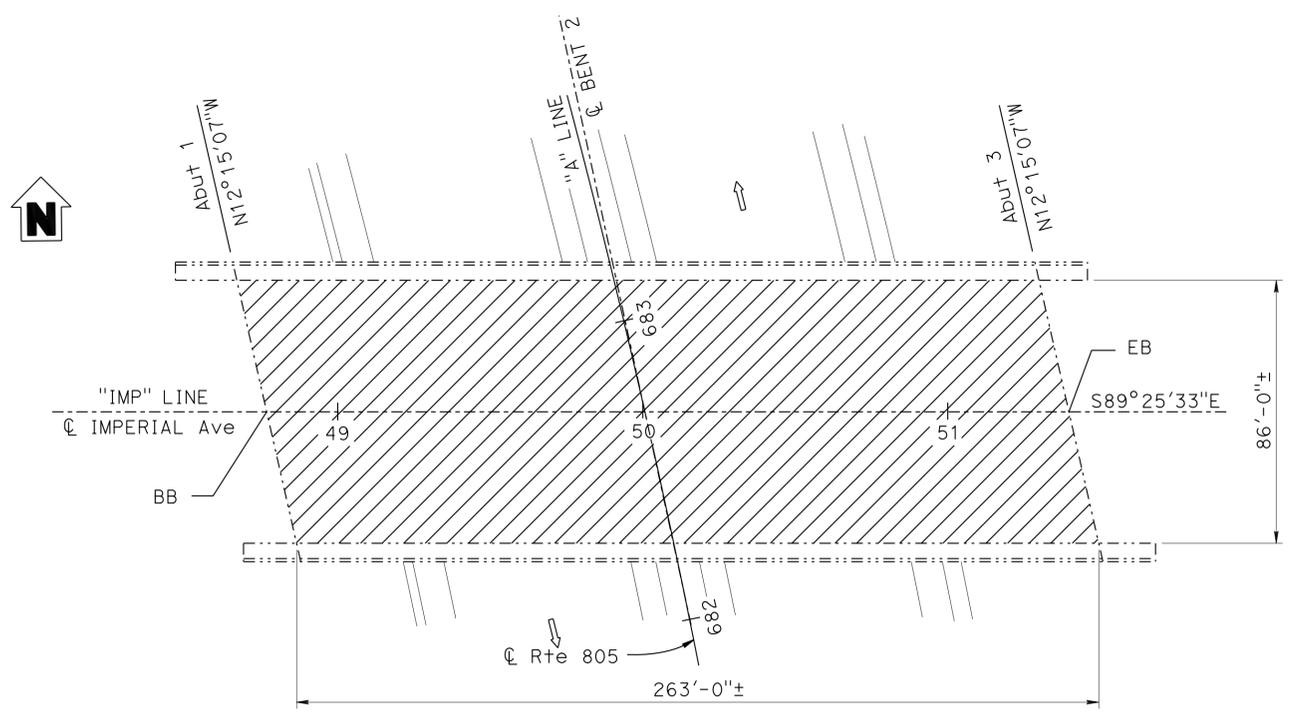
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3589 PROJECT NUMBER & PHASE: 1114000052 1 CONTRACT NO.: 11-2M7304
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 05-06-15 SHEET 6 OF 18

USERNAME => s127400 DATE PLOTTED => 15:41 TIME PLOTTED => 26-AUG-2015

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125,805,905	Var	37	48

HUAN VU
 REGISTERED CIVIL ENGINEER
 DATE: 5-15-15
 PLANS APPROVAL DATE: 08-31-15
 No. 60696
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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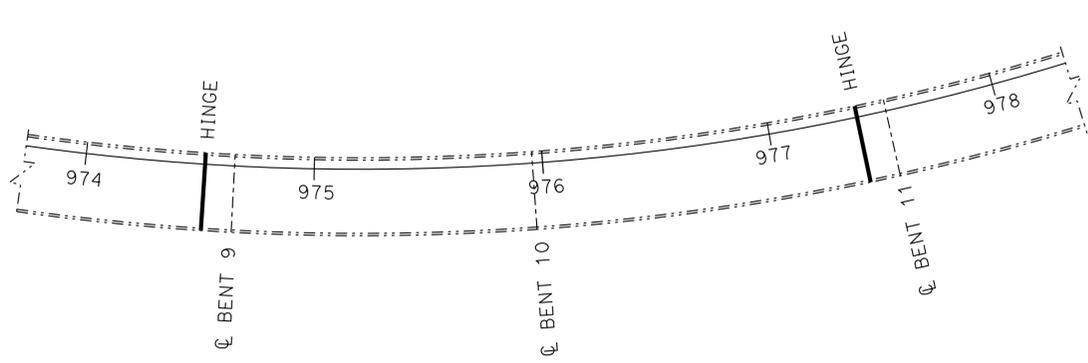
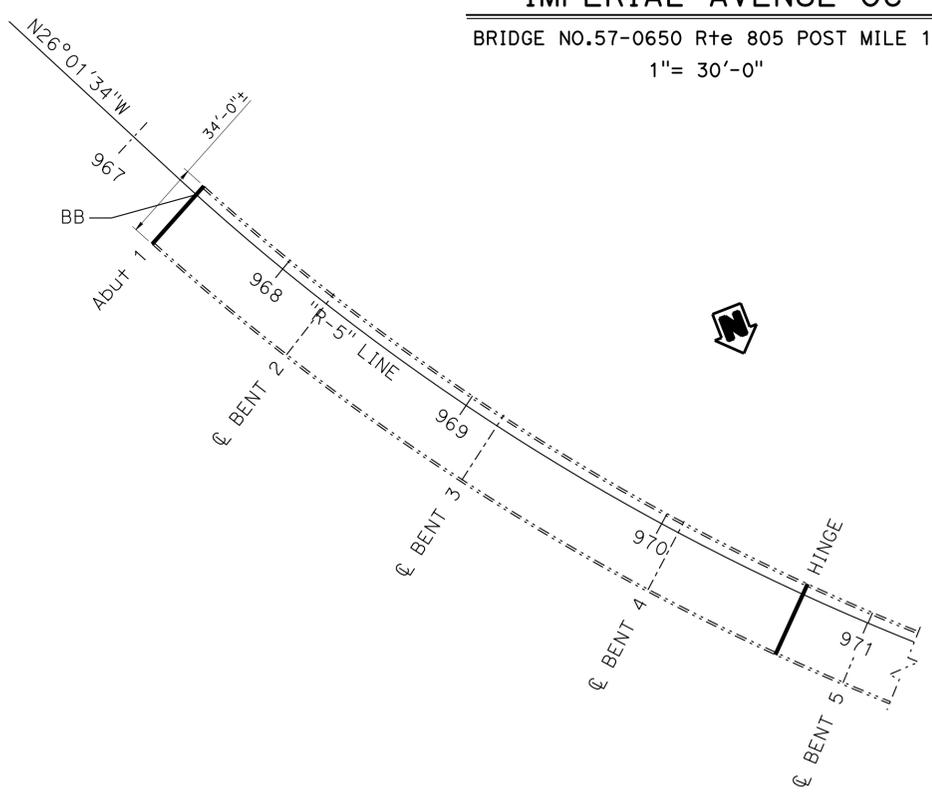
IMPERIAL AVENUE OC

BRIDGE NO.57-0650 Rte 805 POST MILE 12.34 [26]
 1"= 30'-0"

- LEGEND:**
- Indicates existing structure
 - [Hatched Area] Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
 - /// Indicates location of existing Joint Seal Removal, clean Expansion Joint, and placement of new Joint Seal.
 - [X] Location of Construction, see "ROADWAY PLANS"

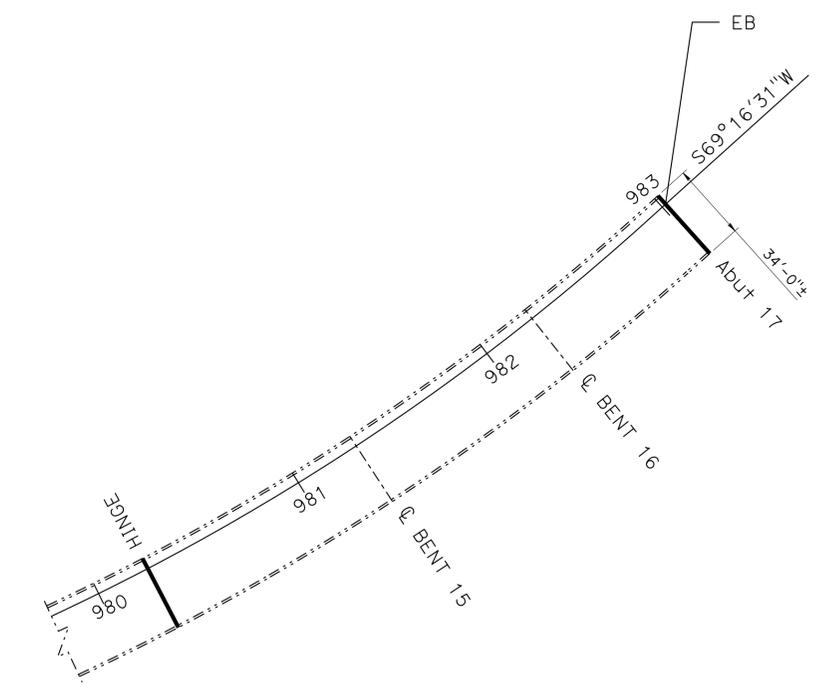
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	22,618	SQFT
TREAT BRIDGE DECK	22,618	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	251	GAL



N805-W8 CONNECTOR OC

BRIDGE NO.57-0717G Rte 805 POST MILE 17.49 [29]
 1"= 40'-0"



QUANTITIES

CLEAN EXPANSION JOINT	204	LF
JOINT SEAL (MR 1 1/2")	204	LF

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

DANIEL T. ADAMS
 DESIGN ENGINEER

DESIGN	BY: H. VU	CHECKED: F. Chen
DETAILS	BY: D. Wooten	CHECKED: H. VU
QUANTITIES	BY: F. Chen	CHECKED: H. VU

LOAD & RESISTANCE FACTOR DESIGN	BY: H. VU	CHECKED: X
LAYOUT	BY: H. VU	CHECKED: X
SPECIFICATIONS	BY: K. Doll	CHECKED: X

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

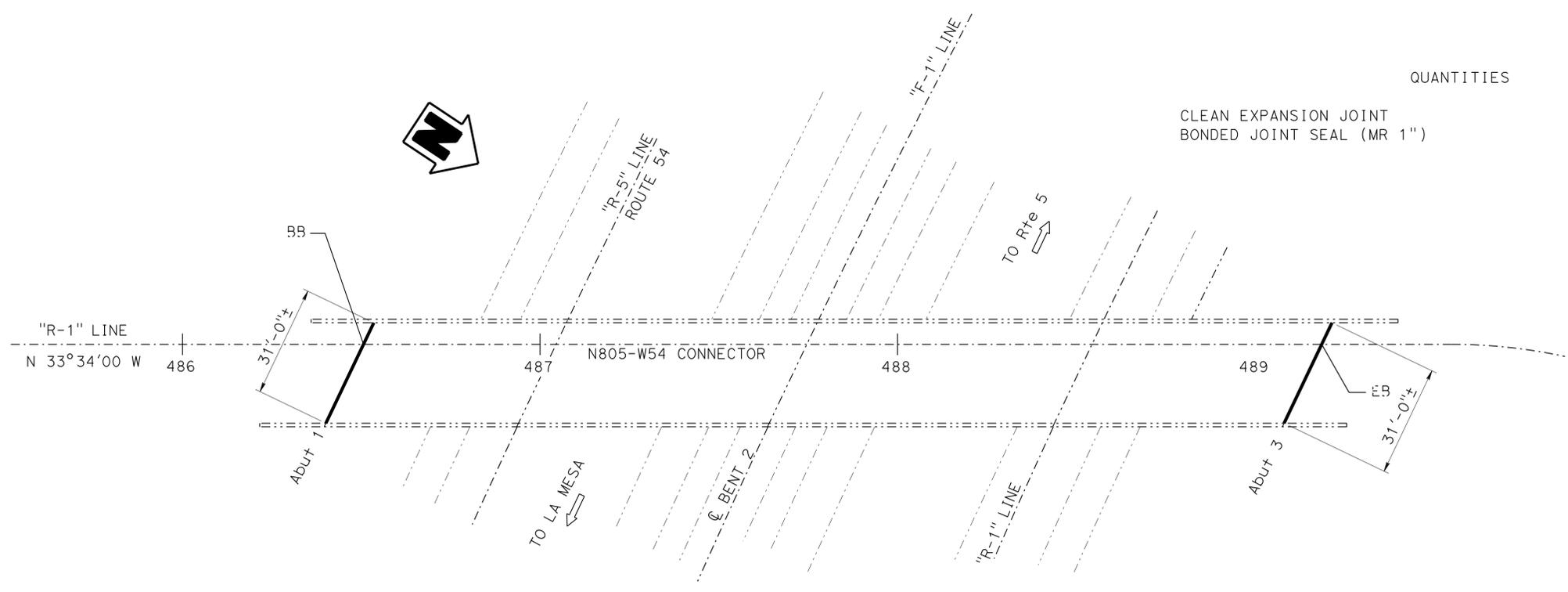
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	VARIABLES
POST MILE	VARIABLES

**BRIDGE MAINTENANCE
 GENERAL PLAN NO.7**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125,805,905	Var	38	48

HUAN VU
 REGISTERED CIVIL ENGINEER DATE 5-15-15
 08-31-15
 PLANS APPROVAL DATE
 No. 60696
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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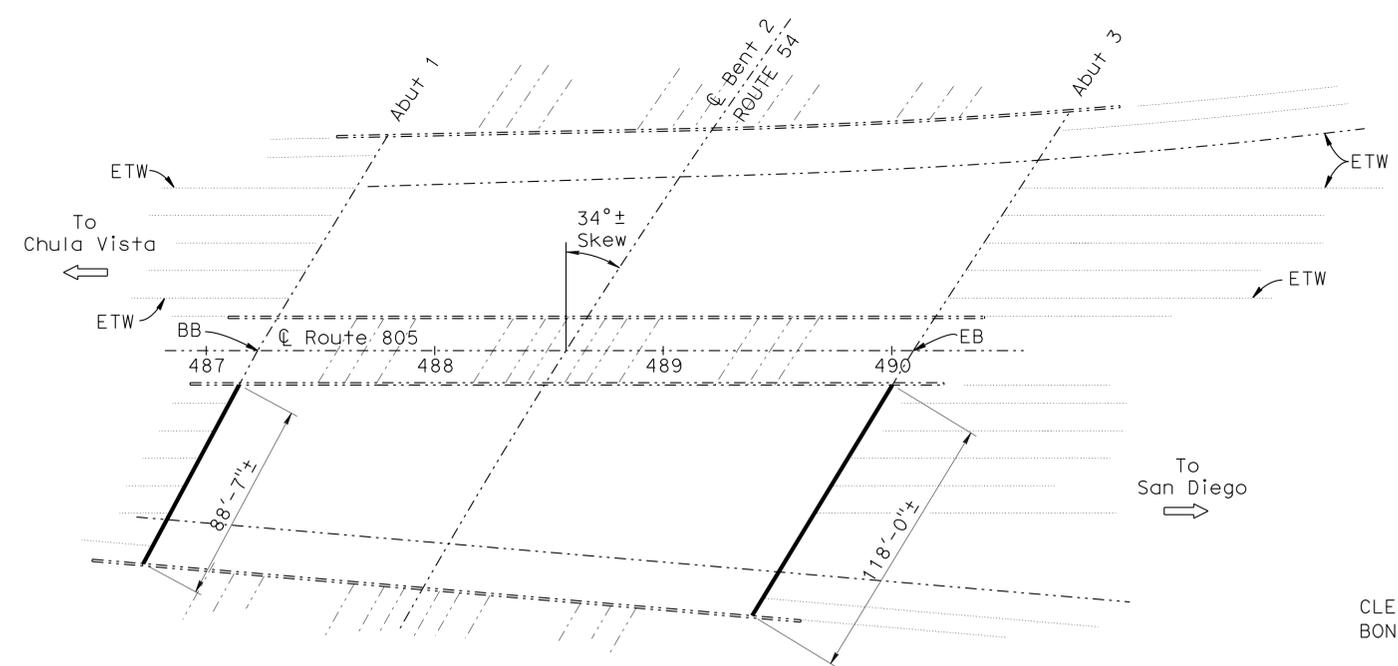
QUANTITIES

62 LF
62 LF

LEGEND:

- Indicates existing structure
- Indicates location of existing Joint Seal Removal, clean Expansion Joint, and placement of new bonded Joint Seal.
- [X] Location of Construction, see "ROADWAY PLANS"

N805-W54 CONNECTOR OC
 BRIDGE NO.57-0746G Rte 805 POST MILE 8.83
 1" = 20'-0"



QUANTITIES

CLEAN EXPANSION JOINT
BONDED JOINT SEAL (MR 1")

207 LF
207 LF

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

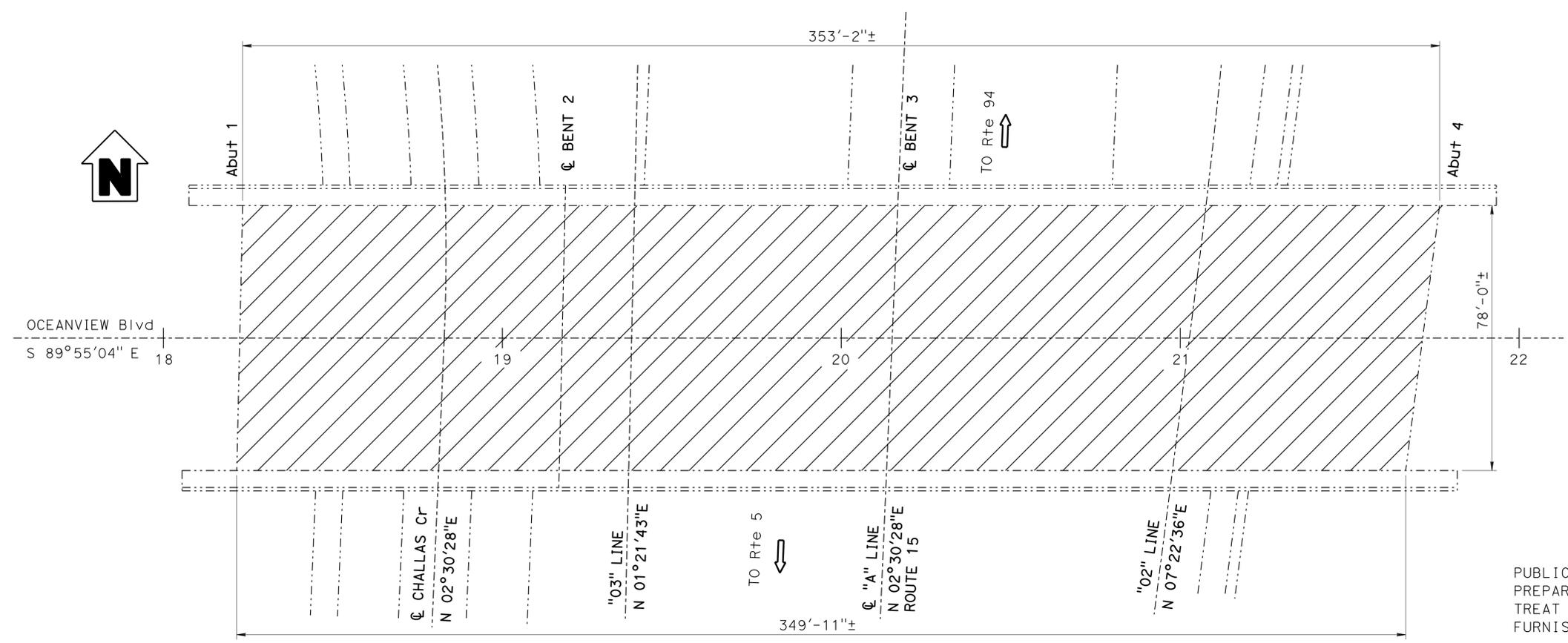
ROUTE 805/54 SEPARATION
 Bridge No. 57-0746R Rte No. 805 Post Mile 8.8
 1" = 40'

DANIEL T. ADAMS DESIGN ENGINEER	DESIGN	BY H. VU	CHECKED F. Chen	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	BRIDGE MAINTENANCE GENERAL PLAN NO.8
	DETAILS	BY D. Wooten	CHECKED H. VU	LAYOUT	BY H. VU			VARIABLES	
	QUANTITIES	BY F. Chen	CHECKED H. VU	SPECIFICATIONS	BY K. Doll			VARIABLES	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 0 1 2 3
 UNIT: 3589
 PROJECT NUMBER & PHASE: 1114000052 1 CONTRACT NO.: 11-2M7304
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 05-06-15
 SHEET 8 OF 18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125,805,905	Var	39	48

HUAN VU 5-15-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE
 HUAN VU
 No. 60696
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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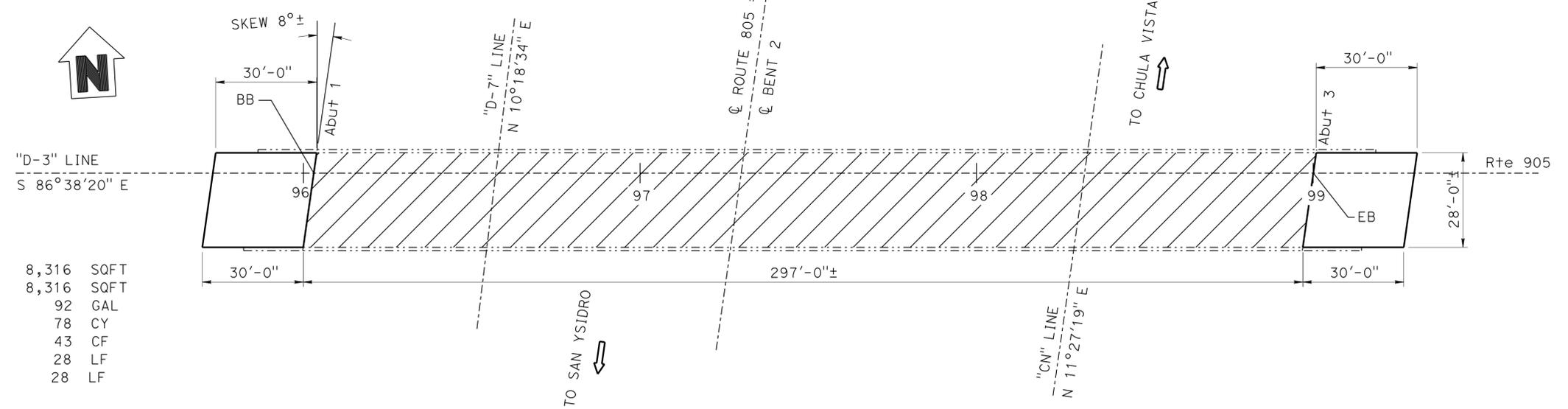
- LEGEND:**
- Indicates existing structure.
 - [Hatched Box] Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
 - [White Box] Indicates limits of approach slab replacement. Type R (30D)
 - [X] Location of Construction, see "ROADWAY PLANS"

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	27,222 SQFT
TREAT BRIDGE DECK	27,222 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	303 GAL

OCEANVIEW BOULEVARD OVERCROSSING

BRIDGE NO.57-0769 Rte 15 POST MILE R0.59
 1"= 20'-0"



QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	8,316	SQFT
TREAT BRIDGE DECK	8,316	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	92	GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	78	CY
PAVING NOTCH EXTENSION	43	CF
JOINT SEAL (MR 1")	28	LF
JOINT SEAL (MR 1 1/2")	28	LF

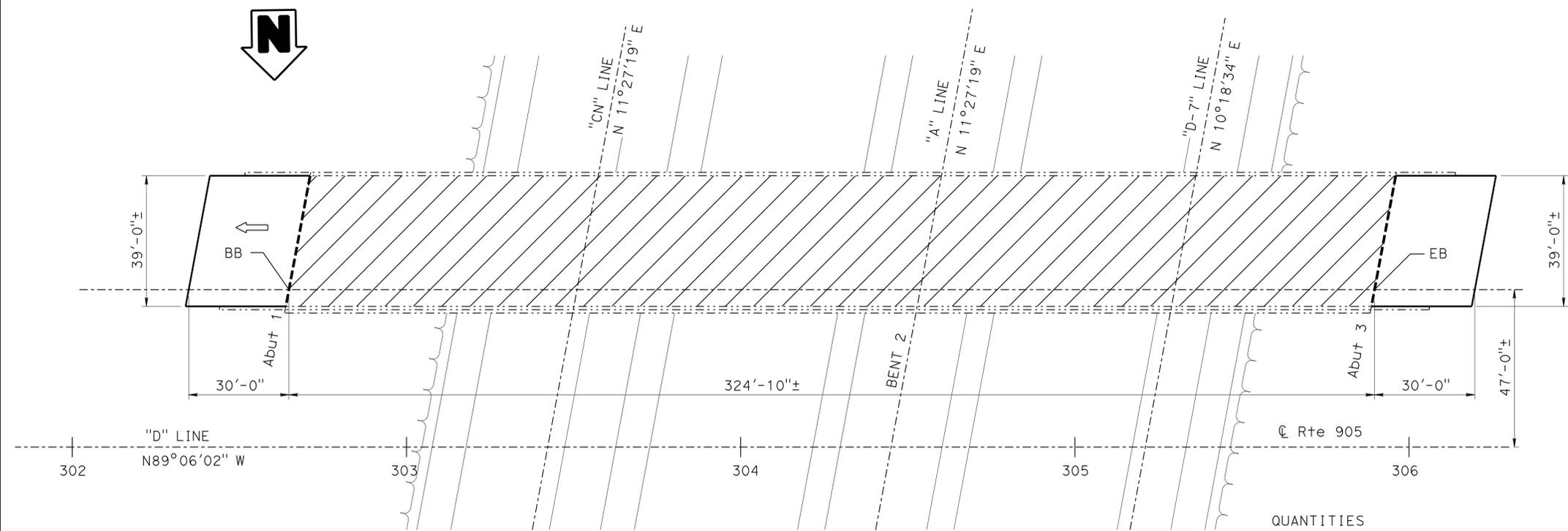
NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN ENGINEER DANIEL T. ADAMS	DESIGN	BY H. VU	CHECKED F. Chen	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	BRIDGE MAINTENANCE GENERAL PLAN NO.9
	DETAILS	BY D. Wooten	CHECKED H. VU	LAYOUT	BY H. VU			VARIABLES	
	QUANTITIES	BY F. Chen	CHECKED H. VU	SPECIFICATIONS	BY K. Doll			POST MILE	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3589 PROJECT NUMBER & PHASE: 1114000052 1 CONTRACT NO.: 11-2M7304
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 05-06-15
 REVISION DATES: SHEET 9 OF 18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125,805,905	Var	40	48

Huan VU
 REGISTERED CIVIL ENGINEER DATE 5-15-15
 08-31-15
 PLANS APPROVAL DATE
 HUAN VU
 No. 60696
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
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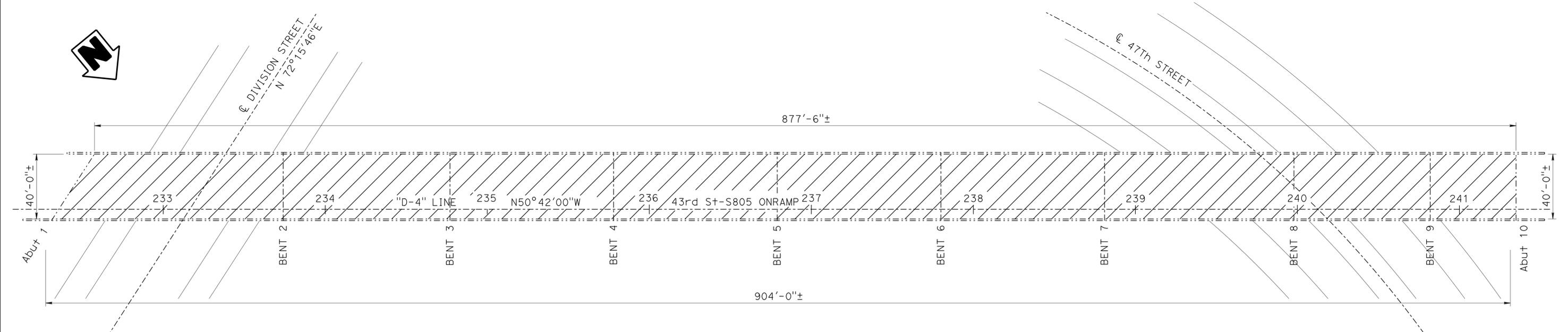


- LEGEND:**
- Indicates existing structure.
 - Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
 - Indicates limits of approach slab replacement. Type R (30D)
 - Indicates limits of Paving Notch extension.
 - Location of Construction, see "ROADWAY PLANS"

ROUTE 905/805 SEPARATION
 BRIDGE NO.57-0777L Rte 905 POST MILE 5.14
 1"= 20'-0"

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	12,668	SQFT
TREAT BRIDGE DECK	12,668	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	141	GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	108	CY
PAVING NOTCH EXTENSION	60	CF
JOINT SEAL (MR 1/2")	80	LF



DIVISION STREET & 47th STREET UC
 BRIDGE NO.57-0790G Rte 805 POST MILE 11.22
 1"= 30'-0"

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	35,616	SQFT
TREAT BRIDGE DECK	35,616	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	396	GAL

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

DANIEL T. ADAMS
 DESIGN ENGINEER

DESIGN	BY H. VU	CHECKED F. Chen
DETAILS	BY D. Wooten	CHECKED H. VU
QUANTITIES	BY F. Chen	CHECKED H. VU

LOAD & RESISTANCE FACTOR DESIGN	BY H. VU	CHECKED X
LAYOUT	BY H. VU	CHECKED X
SPECIFICATIONS	BY K. Doll	CHECKED X

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

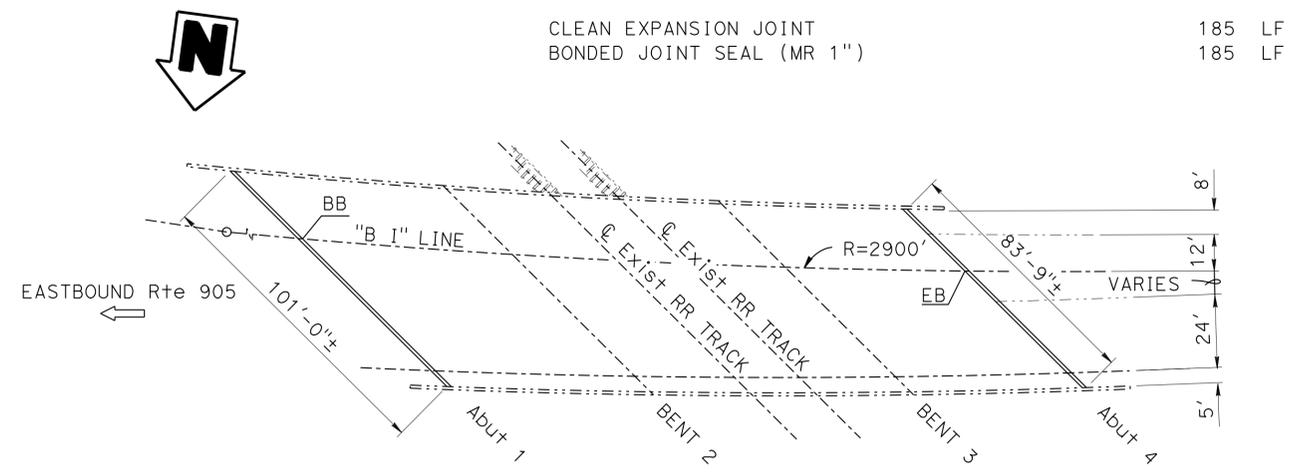
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	VARIABLES
POST MILE	VARIABLES

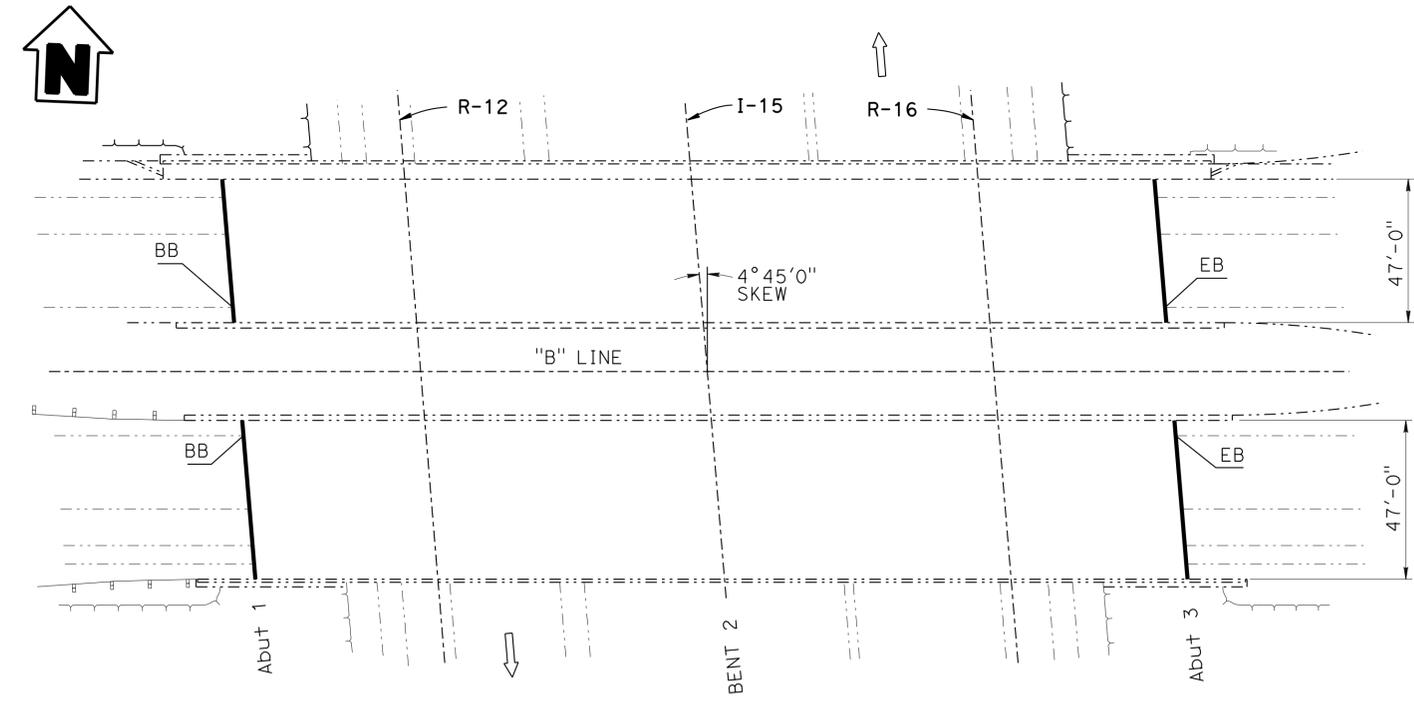
**BRIDGE MAINTENANCE
 GENERAL PLAN NO.10**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94,125,805,905	Var	42	48
HUAN VU REGISTERED CIVIL ENGINEER DATE 5-15-15					
08-31-15 PLANS APPROVAL DATE					
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QUANTITIES
 CLEAN EXPANSION JOINT 185 LF
 BONDED JOINT SEAL (MR 1") 185 LF



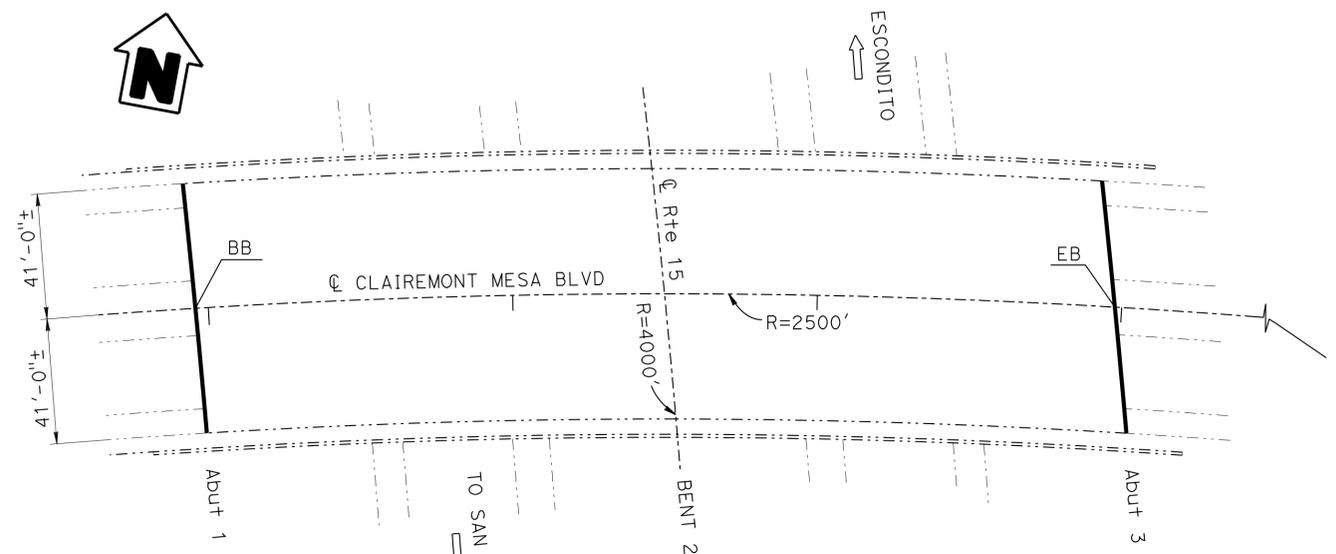
PALM CITY OH
 BRIDGE No 57-0852L Rte 905 POST MILE 3.72 30
 1"= 30'-0"



BALBOA AVE OC
 BRIDGE No 57-0878R/L Rte 15 POST MILE R9.25 9 10
 1"= 30'-0"

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

QUANTITIES
 CLEAN EXPANSION JOINT 188 LF
 JOINT SEAL (MR 1½") 188 LF



CLAIREMONT MESA BLVD OC
 BRIDGE No 57-0919 Rte 15 POST MILE R10.0 11
 1"= 30'-0"

QUANTITIES
 CLEAN EXPANSION JOINT 164 LF
 JOINT SEAL (MR 1½") 164 LF

- LEGEND:
- Indicates Existing Structure
 - ==== Indicates location of existing Joint Seal Removal, Clean Expansion Joint, and placement of new bonded Joint Seal.
 - ==== Indicates location of existing Joint Seal Removal, Clean Expansion Joint, and placement of new Joint Seal.
 - [X] Location of Construction, see "ROADWAY PLANS"

X DESIGN ENGINEER	DESIGN	BY H. Vu	CHECKED F. Chen	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
	DETAILS	BY Y. Tang	CHECKED H. Vu	LAYOUT	BY H. Vu
	QUANTITIES	BY F. Chen	CHECKED H. Vu	SPECIFICATIONS	BY X

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO. VARIES
 POST MILE VARIES
BRIDGE MAINTENANCE GENERAL PLAN NO.12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125,805,905	Var	43	48

Huan Vu 5-15-15
 REGISTERED CIVIL ENGINEER DATE

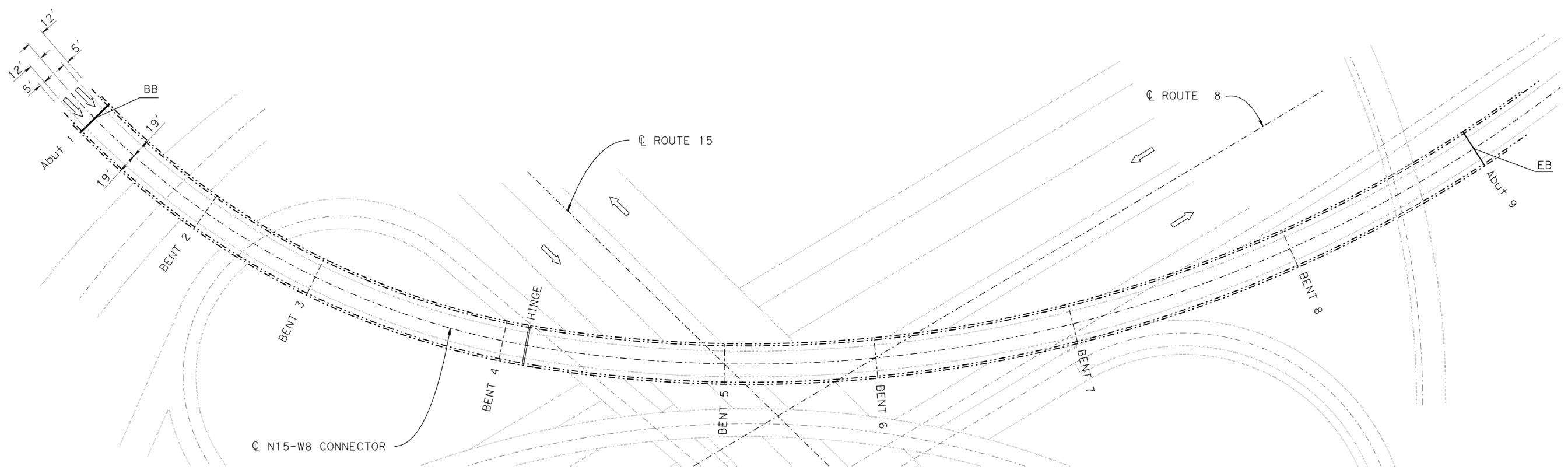
08-31-15
 PLANS APPROVAL DATE

HUAN VU
 No. 60696
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	13 CY
CLEAN EXPANSION JOINT	76 LF
JOINT SEAL ASSEMBLY (MR 4")	38 LF
JOINT SEAL (MR 2")	76 LF



N15-W8 CONNECTOR

BRIDGE No 57-0882G Rte 15 POST MILE R6.01
 1" = 50'-0"

LEGEND:

- Indicates existing structure
- Indicates location of existing Joint Seal Assembly Removal, and placement of new Joint Seal.
- Indicates location of existing Joint Seal Assembly Removal, and placement of new Joint Seal Assembly.
- [X] Location of Construction, see "ROADWAY PLANS"

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

X
 DESIGN ENGINEER

DESIGN	BY H. Vu	CHECKED F. Chen	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY Y. Tang/R. Kirkland	CHECKED H. Vu	LAYOUT	BY H. Vu
QUANTITIES	BY F. Chen	CHECKED H. Vu	SPECIFICATIONS	BY X

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

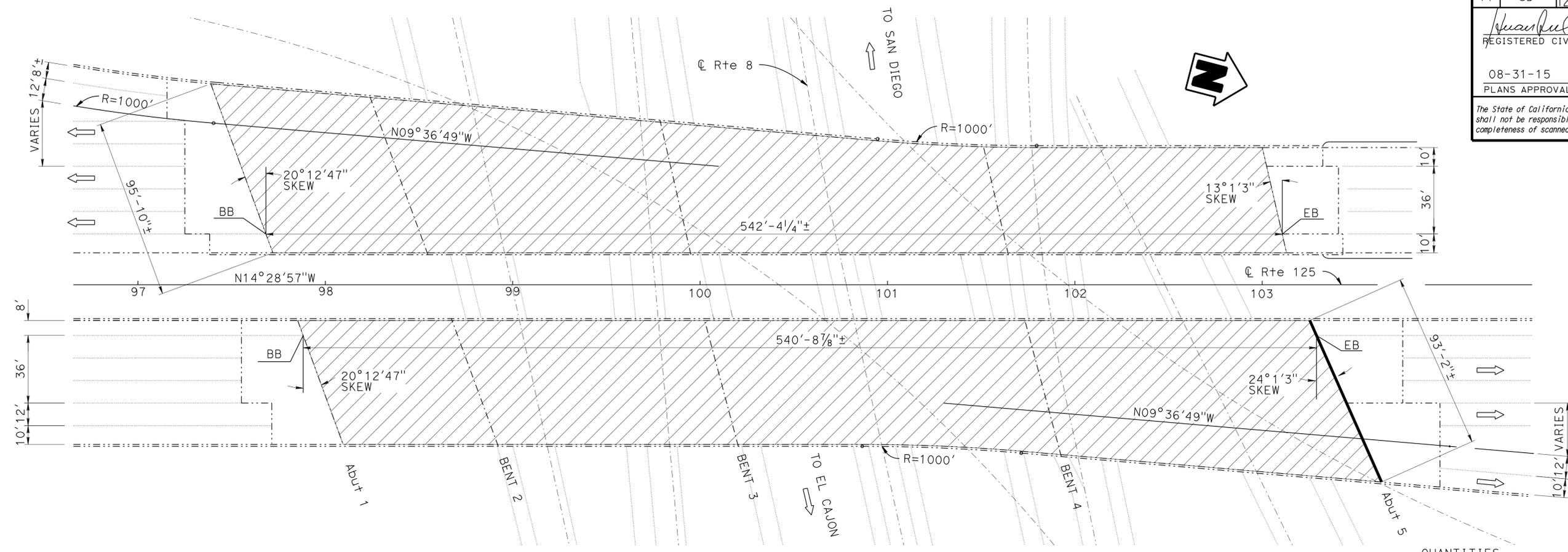
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	VARIABLES
POST MILE	VARIABLES

**BRIDGE MAINTENANCE
 GENERAL PLAN NO.13**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125,805,905	Var	44	48

HUAN VU 5-15-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE
 HUAN VU No. 60696 Exp. 12-31-16 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

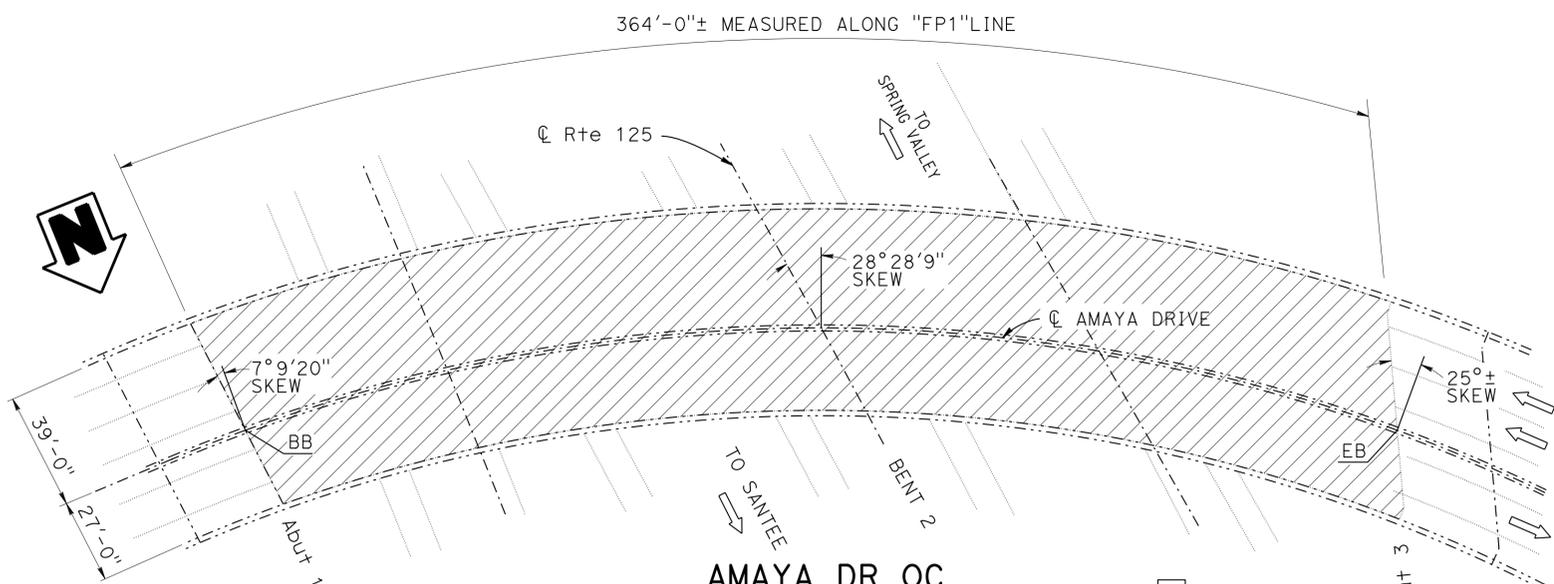


ROUTE 125/8 SEPARATION

BRIDGE No 57-0950R/L Rte 125 POST MILE R15.35 [18] [19]
 1" = 30'-0"

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	74,617	SQFT
TREAT BRIDGE DECK	74,617	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	830	GAL
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	4	CY
CLEAN EXPANSION JOINT	94	LF
BONDED JOINT SEAL (MR 2")	94	LF



AMAYA DR OC

BRIDGE No 57-1044 Rte 125 POST 125 POST MILE 18.66 [20]
 1" = 30'-0"

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	24,561	SQFT
TREAT BRIDGE DECK	24,561	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	273	GAL

LEGEND:

- Indicates existing structure.
- [Hatched Area] Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
- Indicates location of existing Joint Seal Assembly removal and placement of new bonded Joint Seal.
- [X] Location of Construction, see "ROADWAY PLANS"

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

DESIGN	BY H. Vu	CHECKED F. Chen	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY Y. Tang/R. Kirkland	CHECKED H. Vu	LAYOUT	BY H. Vu
QUANTITIES	BY F. Chen	CHECKED H. Vu	SPECIFICATIONS	BY X

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE MAINTENANCE
GENERAL PLAN NO.14

JOINT SEAL TABLE

LOCATION OF CONSTRUCTION	ROUTE	BRIDGE NUMBER	JOINT SEAL LOCATION		MINIMUM "MR" (INCHES)	APPROX JOINT LENGTH (ft)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
14	94	57-0241	Abut 1	PN	.5	34	No	12
			Abut 5	PN	.5	42	No	12
15	125	57-0309	Abut 1	PN	.5	147	No	12
			Abut 1	BW	.5	206	YES	12
			BENT 2	CL	1.5	206*	No	12
			BENT 3	CL	1.5	206*	No	12
			Abut 4	BW	.5	206	YES	12
			Abut 4	PN	.5	147	No	12
2	5	57-0481S	SPAN 18	H	1.5	38	No	
12	94	57-0417R	Abut 4	PN	.5	47	No	
28	805	57-0611L	Abut 1	PN	1.5	100*	No	12
			Abut 5	PN	1.5	142*	No	12
8	15	57-0626	Abut 1	PN	2	122*	No	12
			Abut 1	BW	2	122*	YES	6
			Abut 5	BW	1.5	116*	YES	6
			Abut 5	PN	1.5	116*	NO	12
29	805	57-0717G	Abut 1	PN	1.5	34	NO	12
			SPAN 4	H	1.5	34	NO	2.25
			SPAN 8	H	1.5	34	NO	2.25
			SPAN 10	H	1.5	34	NO	2.25
			SPAN 14	H	1.5	34	NO	2.25
			Abut 17	PN	1.5	34	NO	12
23	805	57-0746G	Abut 1	PN	1	31*	No	12
			Abut 3	PN	1	31*	No	12
24	805	57-0746R	Abut 1	PN	1	89*	No	12
			Abut 3	PN	1	118*	No	12
36	905	57-0777L	Abut 1	PN	1.5	40	No	
			Abut 3	PN	1.5	40	No	
35	905	57-0777G	Abut 1	PN	1	28	No	
			Abut 3	PN	1.5	28	No	
33	905	57-0849L	Abut 1	PN	1	40	No	12
			Abut 2	PN	.5	40	No	12
34	905	57-0849R	Abut 1	PN	1	40	No	12
			Abut 2	PN	.5	40	No	12
31	905	57-0851L	Abut 1	PN	.5	43	No	12
			Abut 2	PN	1.5	43*	No	12
32	905	57-0851R	Abut 1	PN	.5	66	No	12
			Abut 2	PN	1.5	57*	No	12
30	905	57-0852L	Abut 1	PN	1	101*	No	12
			Abut 4	PN	1	84*	No	12
10	15	57-0878L	Abut 1	BW	1.5	47	YES	12
			Abut 3	BW	1.5	47	YES	12
9	15	57-0878R	Abut 1	BW	1.5	47	YES	12
			Abut 3	BW	1.5	47	YES	12
7	15	57-0882G	Abut 1	BW	2	38	NO	
			HINGE 4	H	4	38**	NO	
			Abut 9	BW	2	38	NO	
11	15	57-0919	Abut 1	BW	1.5	82	YES	12
			Abut 3	BW	1.5	82	YES	12
19	125	57-0950R	Abut 5	PN	2	94*	NO	

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

NOTES:

The following notes apply to JOINT SEAL TYPE A:

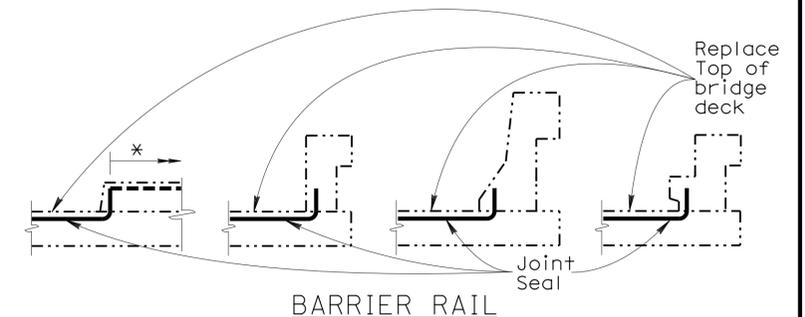
Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see Standard Plan B6-21.

The following notes apply to JOINT SEAL TYPE B:

- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.
- W1 shall be the smaller of the values determined as follows:
 - 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 3.0 PSI.
- Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

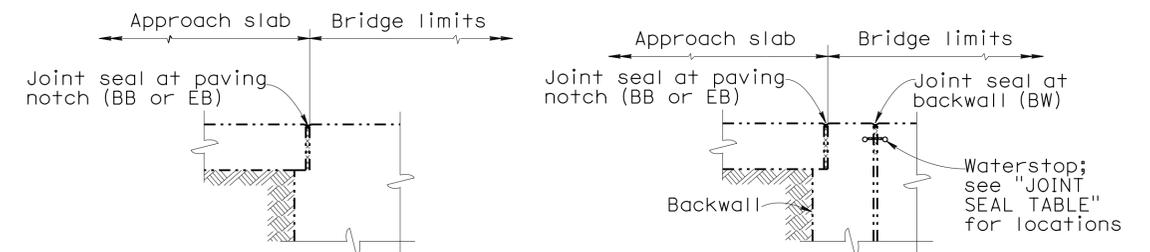
For details not shown see Standard Plan B6-21.



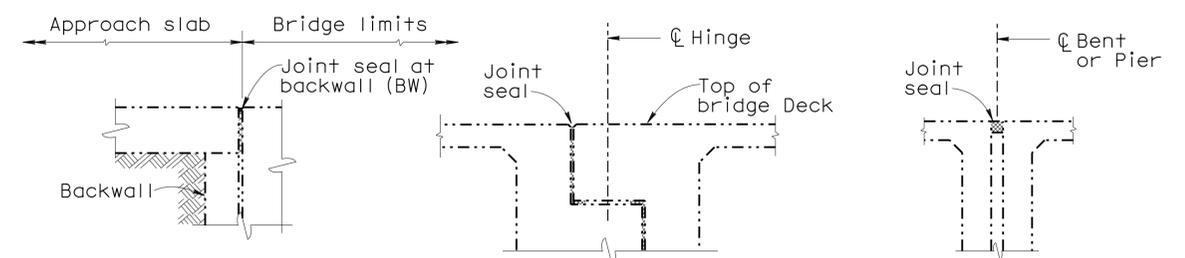
JOINT SEAL AT LOW SIDE OF DECK

Details shown for illustration purposes only. For use only where deck joint matches the sidewalk, curb or barrier rail joint. (See Note 4).

* Extension of joint will be determined by the Engineer if necessary.



DIAPHRAGM ABUTMENT ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL HINGE BENT OR PIER

LEGEND

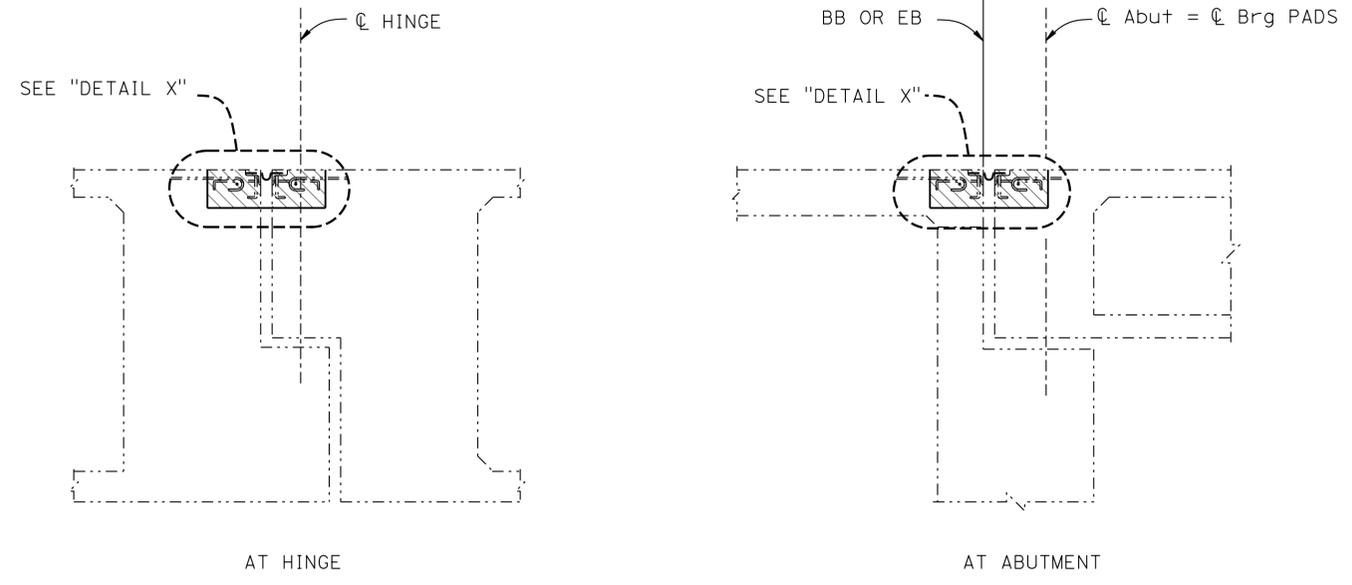
CL = Center line of bent / pier
H = Hinge
BW = Abutment Backwall
PN = Paving Notch
* = Bonded Joint Seal
** = Joint seal assembly

JOINT SEAL LOCATION

Abutment joint is not required with AC roadway pavement transverse contact joint.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DESIGN</td> <td style="width: 33%;">BY H. Vu</td> <td style="width: 33%;">CHECKED F. Chen</td> </tr> <tr> <td>DETAILS</td> <td>BY D. Wooten</td> <td>CHECKED H. Vu</td> </tr> <tr> <td>QUANTITIES</td> <td>BY F. Chen</td> <td>CHECKED H. Vu</td> </tr> </table>	DESIGN	BY H. Vu	CHECKED F. Chen	DETAILS	BY D. Wooten	CHECKED H. Vu	QUANTITIES	BY F. Chen	CHECKED H. Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. VARIES POST MILE VARIES	BRIDGE MAINTENANCE MISCELLANEOUS DETAILS NO.1
DESIGN	BY H. Vu	CHECKED F. Chen											
DETAILS	BY D. Wooten	CHECKED H. Vu											
QUANTITIES	BY F. Chen	CHECKED H. Vu											
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3589 PROJECT NUMBER & PHASE: X	CONTRACT NO.: 11-2M7304									
			DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET OF 5-06-15 15 18									

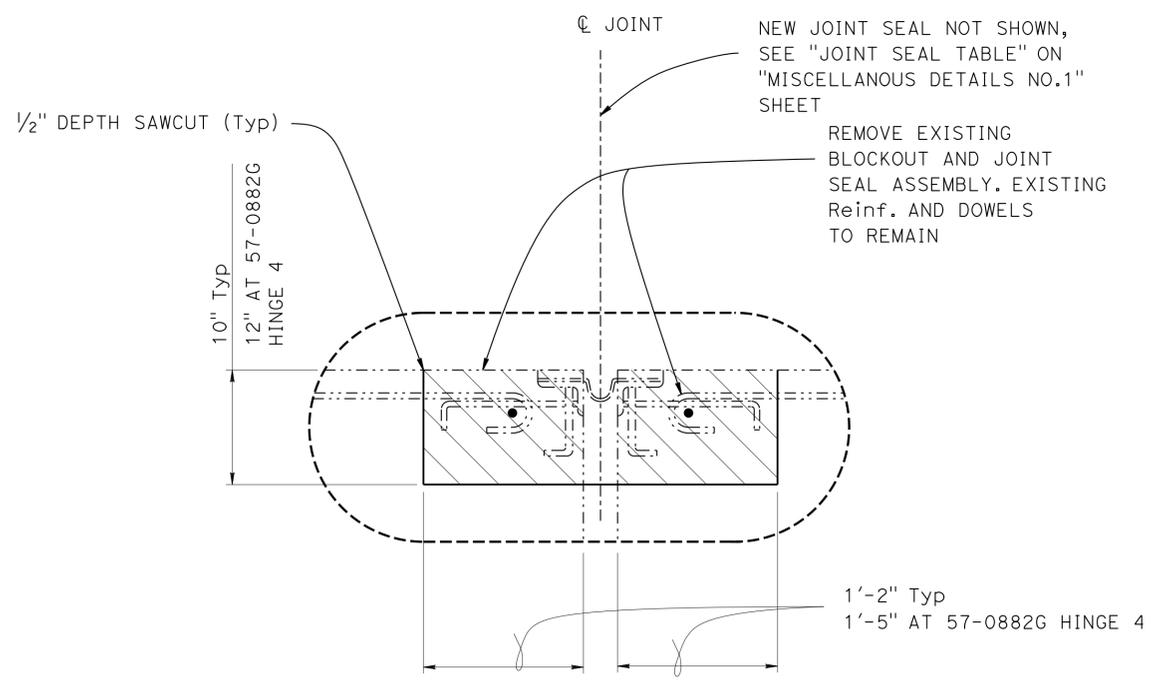
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,94, 125,805,905	Var	46	48
 REGISTERED CIVIL ENGINEER DATE 5-15-15					
08-31-15 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>					



JOINT SEAL ASSEMBLY
NO SCALE

TEMPORARY DECKING DESIGN LOADING		
MOMENT DEMAND/FOOT	ANCHOR BOLT SHEAR/FOOT	ANCHOR BOLT TENSION (Lbs)
$\left(\frac{\text{Lbs-Ft}}{\text{Ft}}\right)$	$\left(\frac{\text{Lbs}}{\text{Ft}}\right)$	
4000	2000	4000

- NOTES:
1. Plate deflection must not exceed $s/300$. (s = span [Ft]).
 2. Minimum plate thickness must be equal or greater than $\frac{7}{8}$ ".
 3. Maximum anchorage bolt spacing must not exceed 12" O.C.
 4. Anchorage washer must be neoprene or similar.

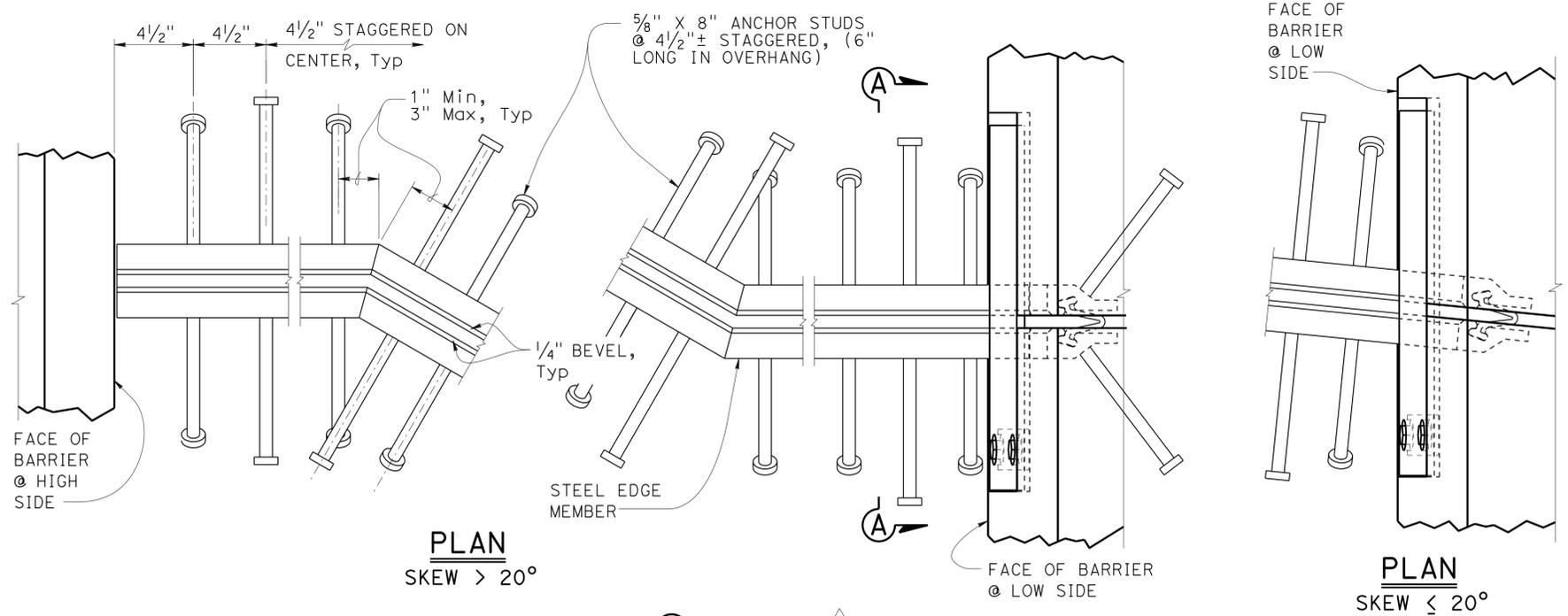


DETAIL X
NO SCALE

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

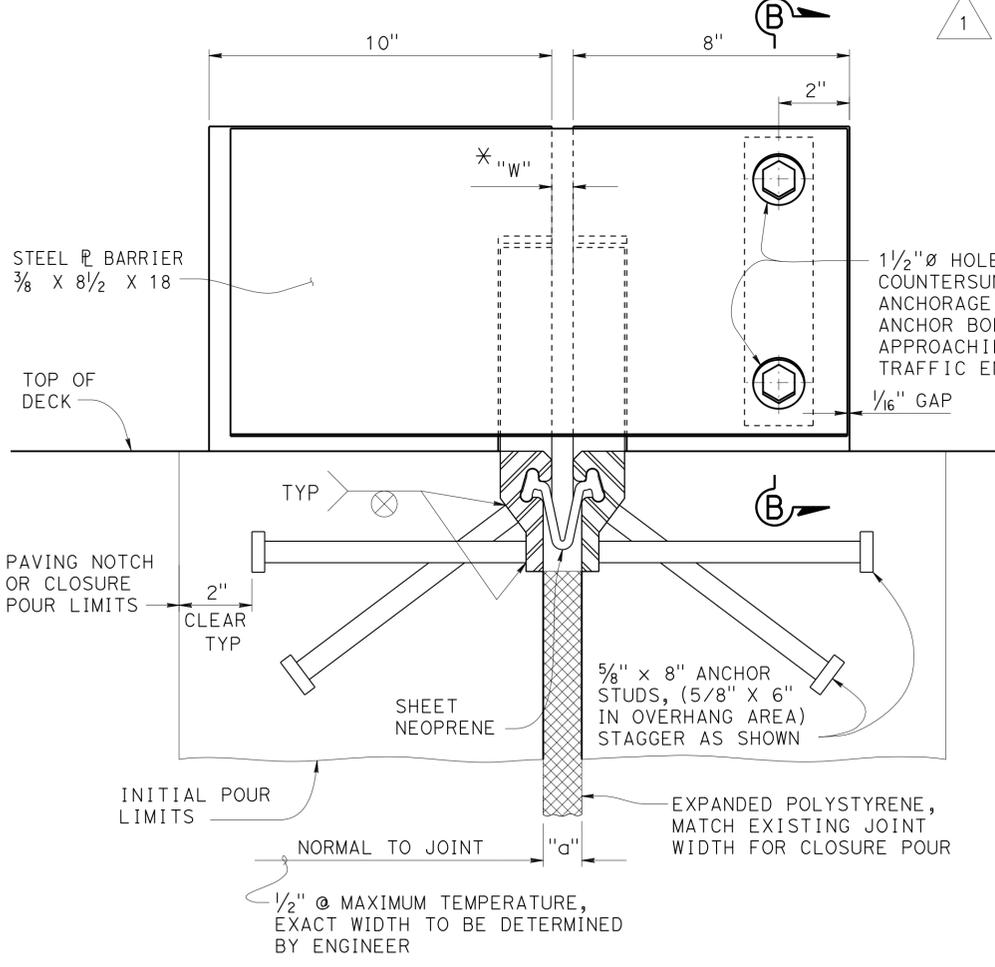
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY H. Vu	CHECKED F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	BRIDGE MAINTENANCE MISCELLANEOUS DETAILS NO.2
	DETAILS	BY D. Wooten	CHECKED H. Vu			VARIABLES	
	QUANTITIES	BY F. Chen	CHECKED H. Vu			VARIABLES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: 3589 PROJECT NUMBER & PHASE: X	CONTRACT NO.: 11-2M7304	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 5-05-15 SHEET 16 OF 18

USERNAME => s127400 DATE PLOTTED => 26-AUG-2015 TIME PLOTTED => 15:42



SCHEMATIC STEEL EDGE MEMBER

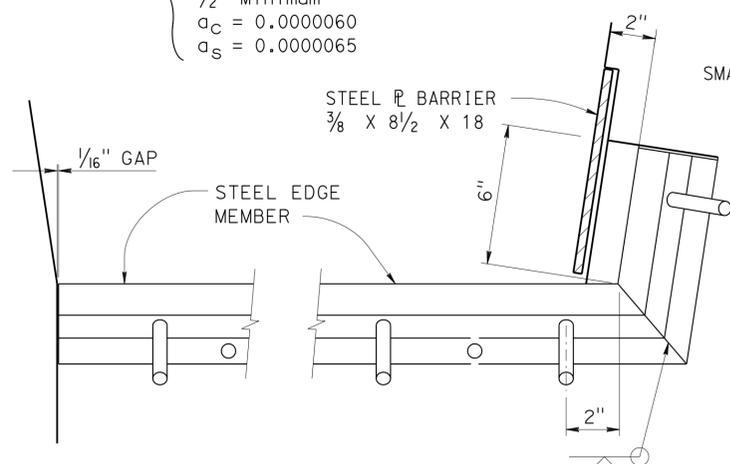
- NOTES:
- Alternatively, fillet or complete penetration welds may be used at anchor studs.
 - Alternate types of anchor studs may be permitted subject to the authorization by the Engineer.
 - Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour shall not be placed until final deck surface is within the tolerances specified.
 - Use joint at crown of roadway, at any change in traverse slope in deck and at changes in horizontal direction. Place other joints at or near lanes. All metal parts to be painted or galvanized after fabrication.
 - Sheet Neoprene shall be fabricated in one continuous piece and shall be fabricated to bend around corners. Field splices of the neoprene are not allowed.
 - Insert assembly or expansion anchorage for 5/8" x 1 3/4" bolts. Use installation bolts extended 1/2" minimum past nut and coat with bond breaker, after concrete has cured, remove installation bolts, install HS bolts and sheet neoprene.
 - Sidewalk Detail similar to Barrier Detail on low side at both sides if the roadway is crowned or if the difference in elevation between the ends of the seal is 0.5' or less.
 - a_c, a_s, are the thermal expansion coefficients for concrete and steel respectively.
 - Anchor studs shall conform to ASTM 108.



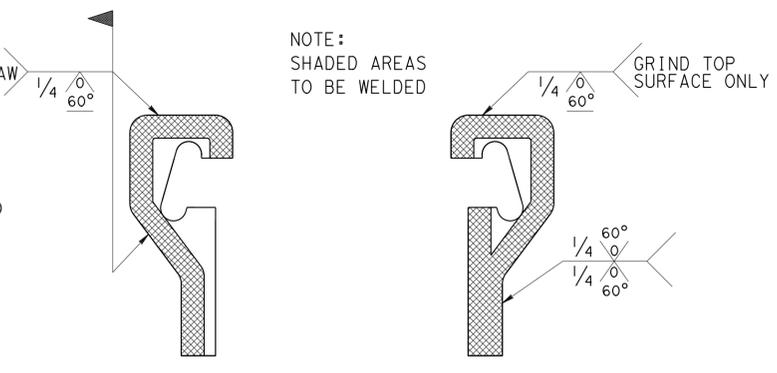
JOINT INFORMATION				"a" DIMENSIONS		
BRIDGE No.	LOCATION	MOVEMENT RATING (MR)	SKEW	WINTER	SPRING & FALL	SUMMER
57-0882G	HINGE 4	4"	0	3"	2 5/8"	1 3/4"

* TO SET MINIMUM JOINT OPENING "W"

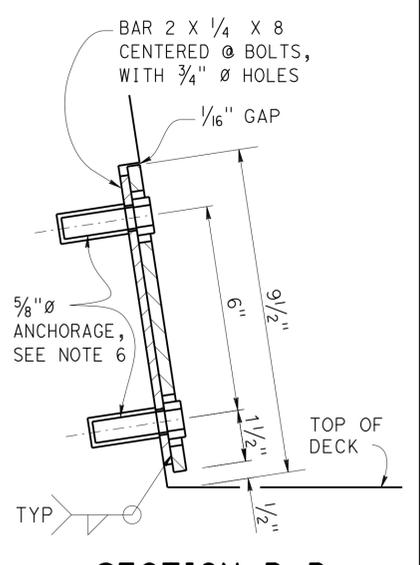
$$"W" = \begin{cases} 1/2" + [(Max\ Str\ temperature\ in\ ^\circ F) - (actual\ Str\ temperature\ in\ ^\circ F)] * (a_c\ or\ a_s) * (12)(contributory\ L\ in\ feet) \\ 1/2" Minimum \\ a_c = 0.0000060 \\ a_s = 0.0000065 \end{cases}$$



BARRIER DETAIL HIGH SIDE **BARRIER DETAIL LOW SIDE**

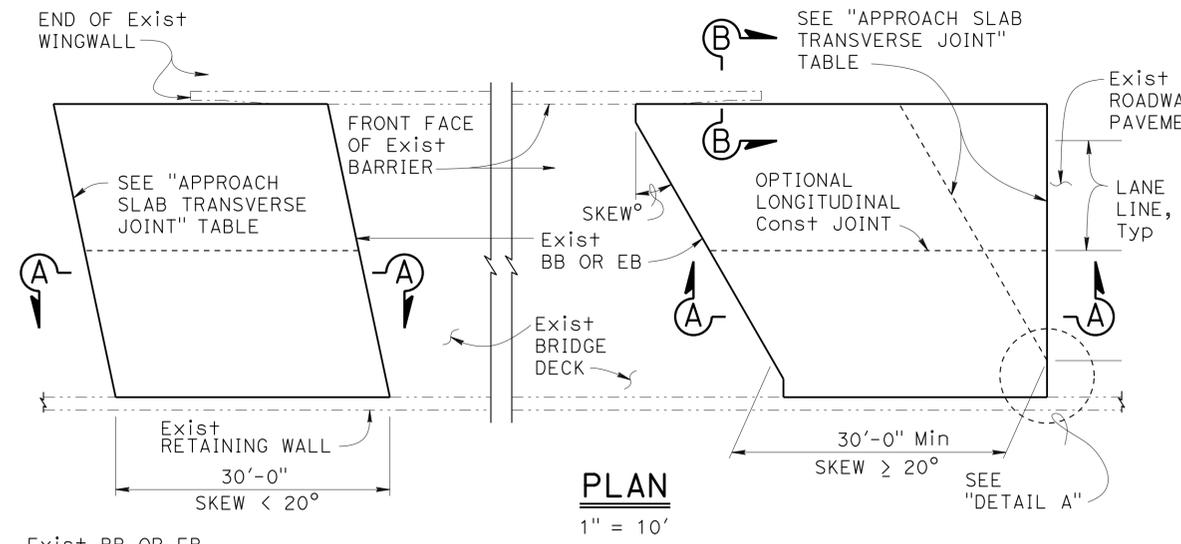


SCHEMATIC FIELD WELD DETAIL **SCHEMATIC SHOP WELD DETAIL**

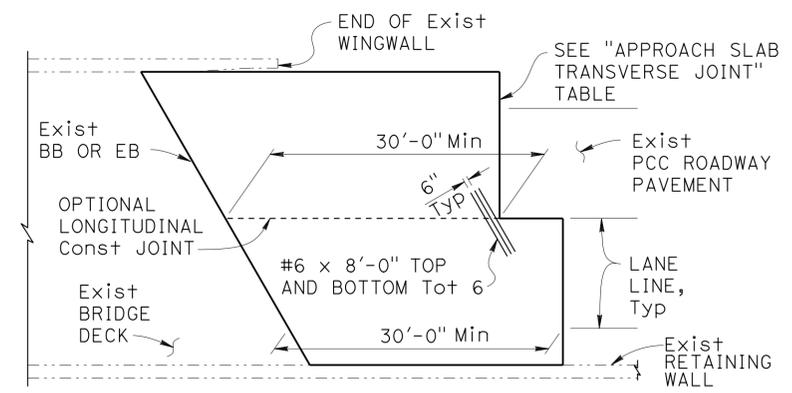


SECTION B-B

NO SCALE

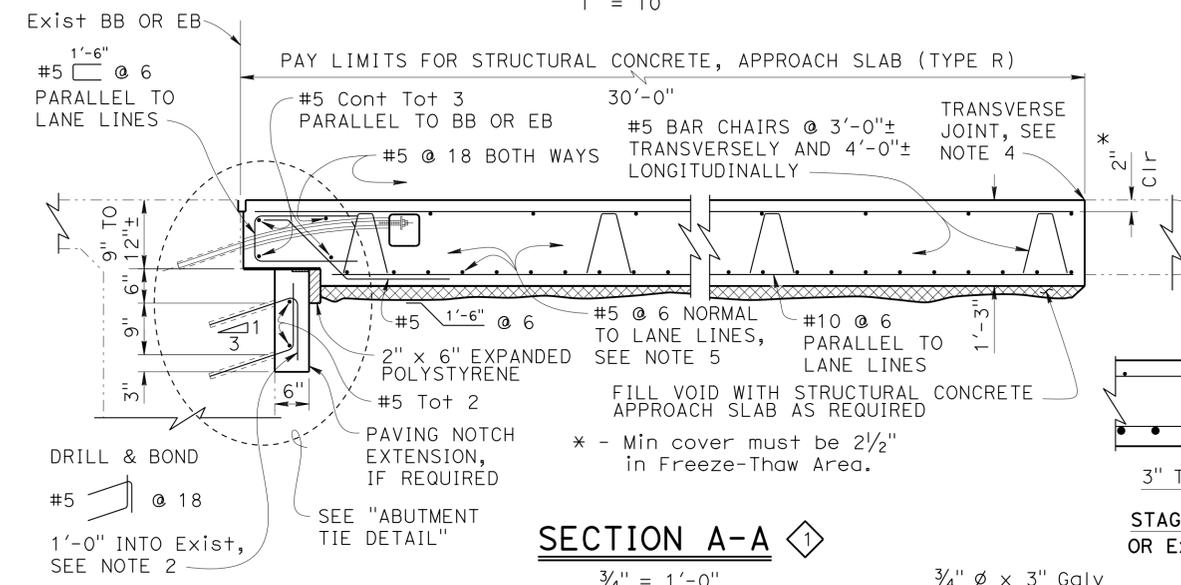


DETAIL A
No Scale

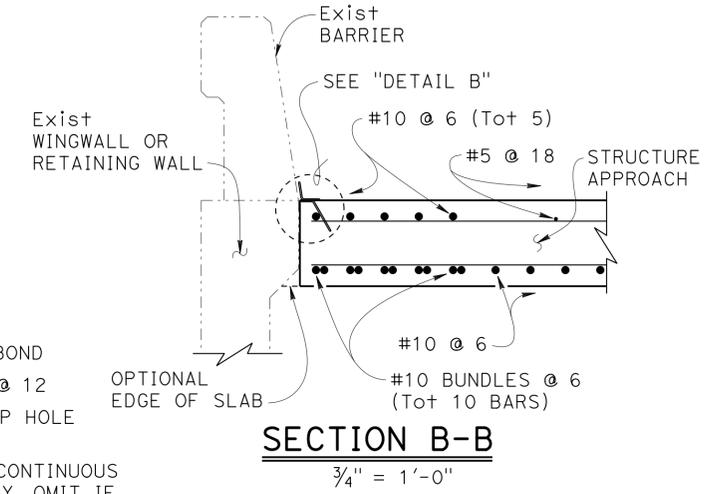


END STAGGER DETAIL
1" = 10'

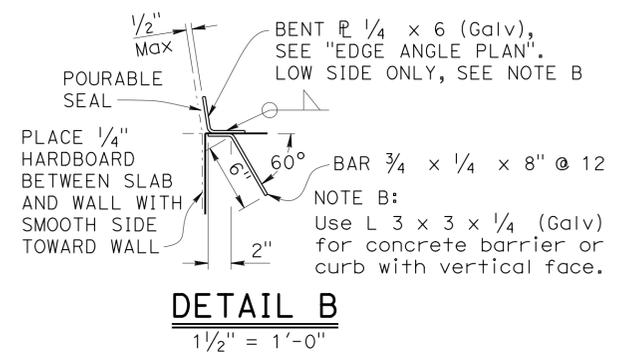
APPROACH SLAB TRANSVERSE JOINT		
APPROACH SKEW	WITH HMA ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	PARALLEL TO BB OR EB	PARALLEL TO BB OR EB
20° - 45°	PARALLEL TO BB OR EB USE "DETAIL A"	STAGGER AT LANE LINES 24' TO 36' APART, SEE "END STAGGER DETAIL"
> 45°	PARALLEL TO BB OR EB USE "DETAIL A"	STAGGER AT EACH LANE LINE, SEE "END STAGGER DETAIL"



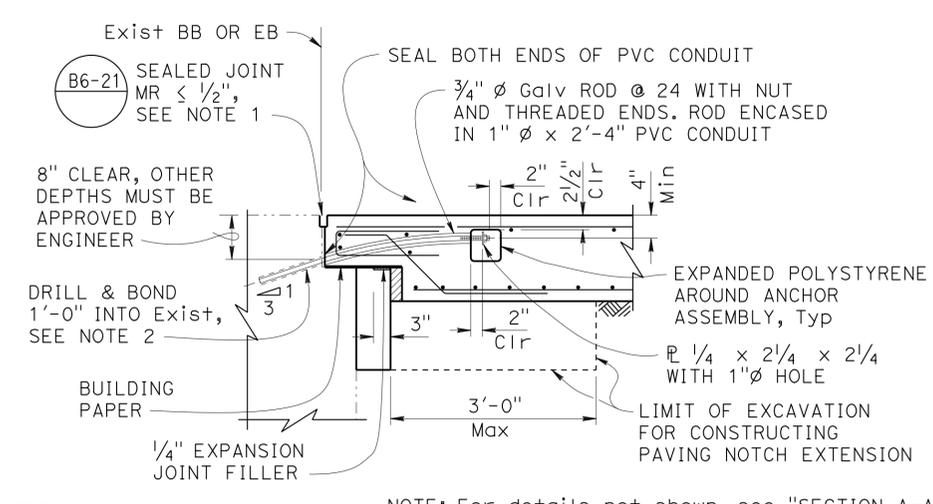
SECTION A-A
3/4" = 1'-0"



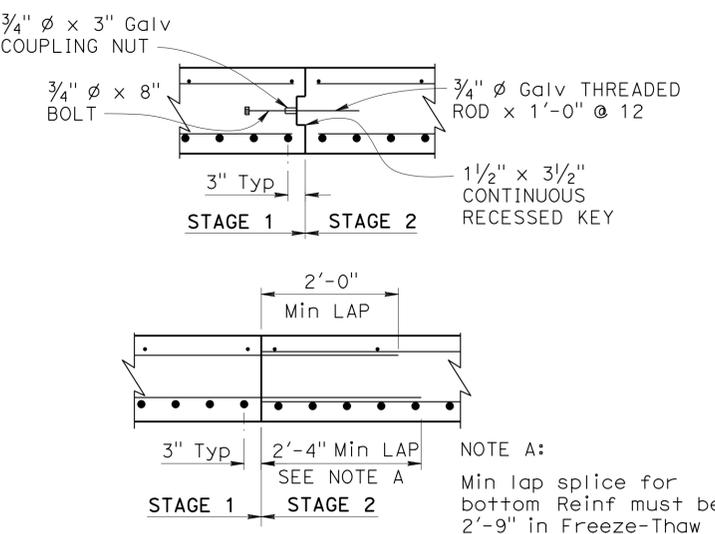
SECTION B-B
3/4" = 1'-0"



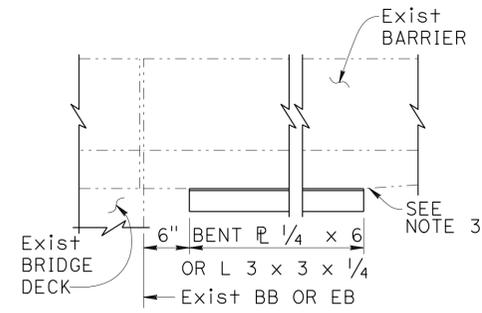
DETAIL B
1 1/2" = 1'-0"



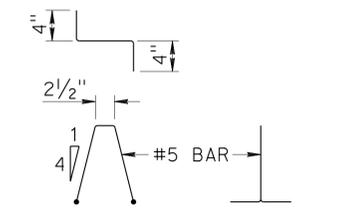
ABUTMENT TIE DETAIL
3/4" = 1'-0"



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



EDGE ANGLE PLAN
1" = 1'-0"



BAR CHAIR DETAIL
1" = 1'-0"

DESIGN NOTES

- DESIGN: AASHTO LRFD Bridge Design Specifications, 2012 Edition with Caltrans Amendments, preface dated January 2014
- LIMIT STATES: Service I, Strength I & II, Extreme II and Fatigue I (γ_{FAT} = 1.0)
- DEAD LOAD: Includes 35 psf for future wearing surface
- LIVE LOAD: HL93 and permit design load
Equivalent strip width method: W₁ = 12 ft
Slab span: L₁ = 24.5 ft
- REINFORCED CONCRETE:
f_y = 60 ksi
f'c = 3.6 ksi
n = 8

- NOTES:
- For details not shown, see other plan sheets. Adjust reinforcement to clear sawcut for sealed joint.
 - Space reinforcement to avoid existing prestress anchorages and other abutment reinforcement.
 - End the plate or edge angle at beginning of barrier transition, end of wingwall, or end of structure approach as applicable.
 - Transverse joint must be a minimum of 5'-0" from an existing or constructed weakened plane joint in approach PCC roadway pavement. Refer to Standard Plans P10 and P14.
 - At the Contractor's option, approach slab transverse reinforcement may be placed parallel to BB or EB. Spacing of transverse reinforcement is measured along \mathcal{C} roadway.
- Indicates Existing Structure

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

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

STANDARD DRAWING	REVISED
FILE NO. xs3-150	APPROVAL DATE <u>January 2015</u>

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES
DEPARTMENT OF TRANSPORTATION	BRIDGE NO. Various
	POST MILE Varies

BRIDGE MAINTENANCE	STRUCTURE APPROACH TYPE R (30D)
UNIT: 3789	PROJECT NUMBER & PHASE: 1114000052 1
CONTRACT NO.: 11-2M7301	DISREGARD PRINTS BEARING EARLIER REVISION DATES

BRIDGE NO. Various	POST MILE Varies	REVISION DATES	SHEET 18	OF 18
		5-06-15		