

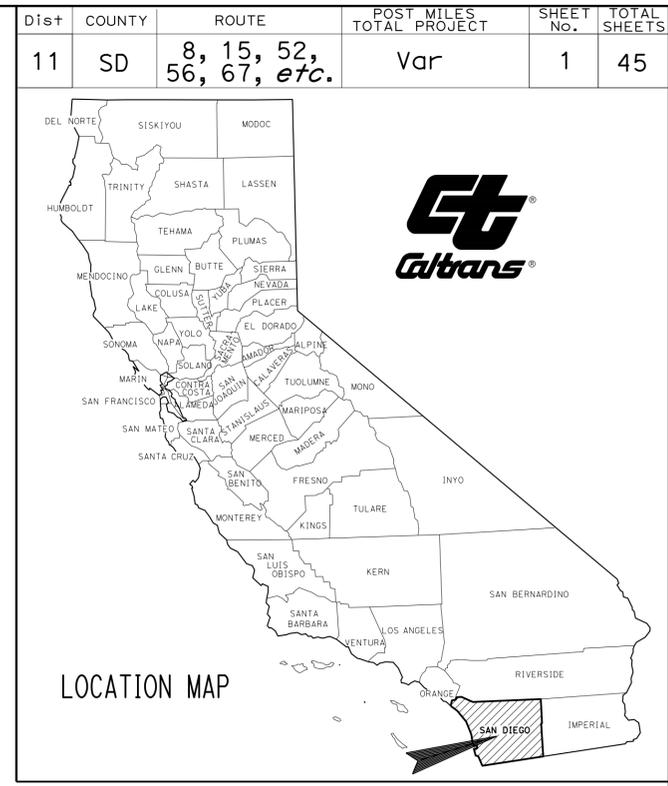
STATE OF CALIFORNIA ACSTP-X073(120)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SAN DIEGO COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

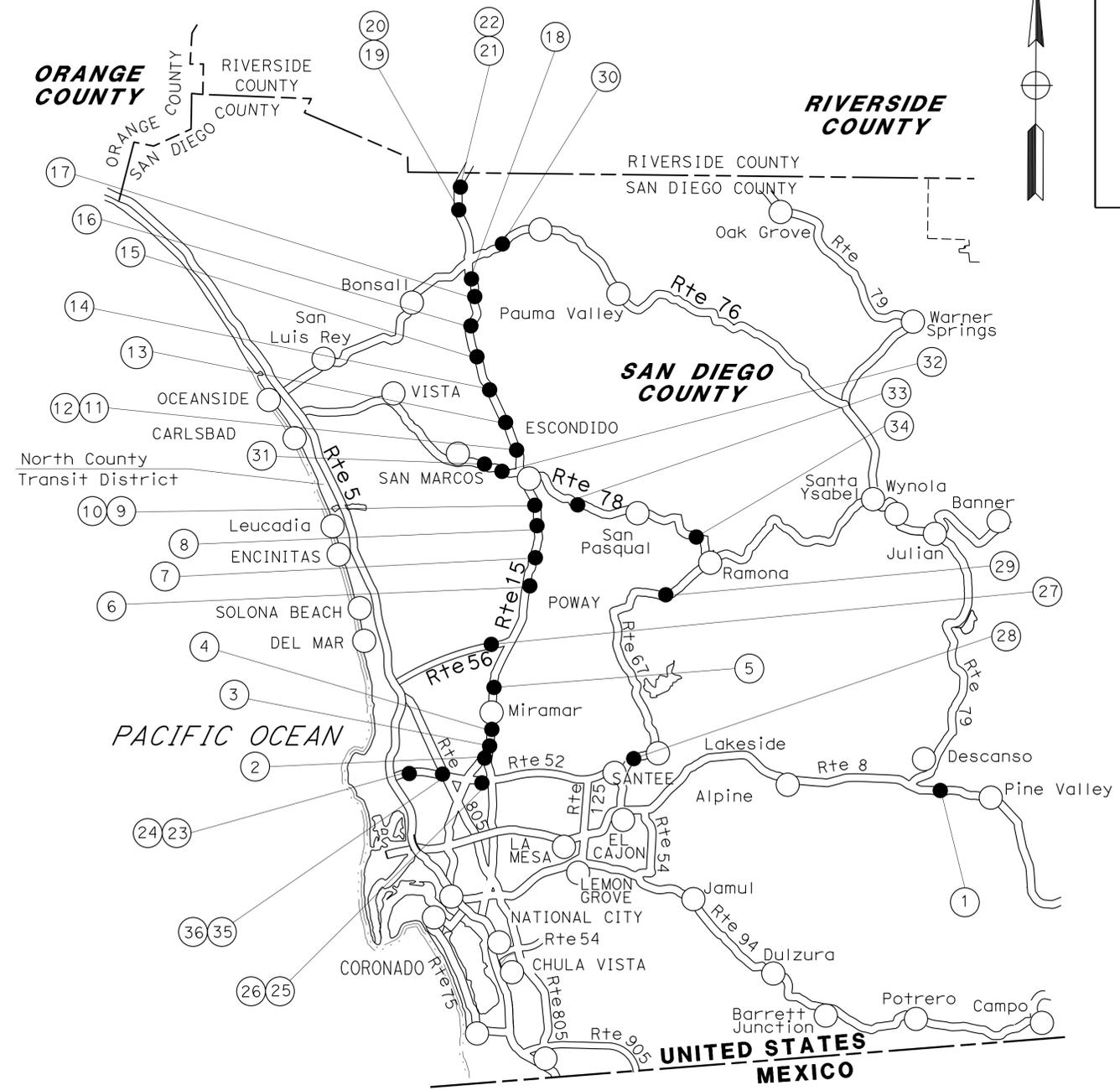
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS
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13-16	PAVEMENT DELINEATION DETAILS AND QUANTITIES
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.



LOCATIONS OF CONSTRUCTION

Loc	ROUTE	PM	BRIDGE No.	BRIDGE NAME
1	8	R40.84	57-0691R	LAS BANCAS ROAD UC
2	15	M11.46	57-0940	H AVENUE OC
3	15	M11.97	57-0961F	S15 & S163 Conn SEPARATION
4	15	M13.33	57-0907	MIRAMAR WAY OC
5	15	M14.29	57-0909	POMERADO ROAD OC
6	15	M22.94	57-1118L	BERNARDO CENTER DRIVE UC
7	15	M23.69	57-0578	RANCHO BERNARDO ROAD UC
8	15	R31.17	57-0812L	WASHINGTON AVENUE OH
9	15	R31.32	57-0813L	MISSION AVENUE UC
10	15	R31.32	57-0813R	MISSION AVENUE UC
11	15	R31.48	57-0814L	ROUTE 15/78 SEPARATION
12	15	R31.48	57-0814R	ROUTE 15/78 SEPARATION
13	15	R32.86	57-0818L	EL NORTE PARKWAY UC
14	15	R33.57	57-0819L	COUNTRY CLUB LANE UC
15	15	R33.94	57-0911S	CENTRE CITY PARKWAY-N15 OC
16	15	R34.22	57-0892R	NUTMEG STREET UC
17	15	R34.89	57-0893R	MESA ROCK ROAD UC
18	15	R43.28	57-0869	ESCONDIDO HIGHWAY OC
19	15	R48.85	57-0896L	STEWART CANYON ROAD UC
20	15	R48.85	57-0896R	STEWART CANYON ROAD UC
21	15	R52.49	57-0937L	RAINBOW CREEK
22	15	R52.49	57-0937R	RAINBOW CREEK
23	52	1.93	57-0771L	PARK UC
24	52	1.93	57-0771R	PARK UC
25	52	3.86	57-0921L	SAN CLEMENTE CREEK
26	52	3.86	57-0921R	SAN CLEMENTE CREEK
27	56	7.80	57-1009L	RANCHO PENASQUITOS Blvd UC
28	67	R1.94	57-0461	PROSPECT Ave OC
29	67	R5.19	57-0562R	CHANNEL ROAD UC
30	76	17.75	57-1029	HORSE RANCH CREEK
31	78	11.18	57-0385	LAS POSAS ROAD UC
32	78	12.13	57-0387	SAN MARCOS Blvd UC
33	78	R26.79	57-0916	GUEJITO CREEK
34	78	35.33	57-0958	SANTA MARIA CREEK
35	805	23.58	57-0685L	ROUTE 805/52 SEPARATION
36	805	23.61	57-0706F	S805-E52 CONNECTOR OC



PROJECT MANAGER
LAURA ESPINOZA
 DESIGN ENGINEER
HAMED S. BAHA

Hamed S. Baha 05-04-16
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 May 16, 2016
 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.	11-417804
PROJECT ID	1114000039

LAST REVISION
 DATE PLOTTED => 13-JUN-2016
 TIME PLOTTED => 11:14

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.

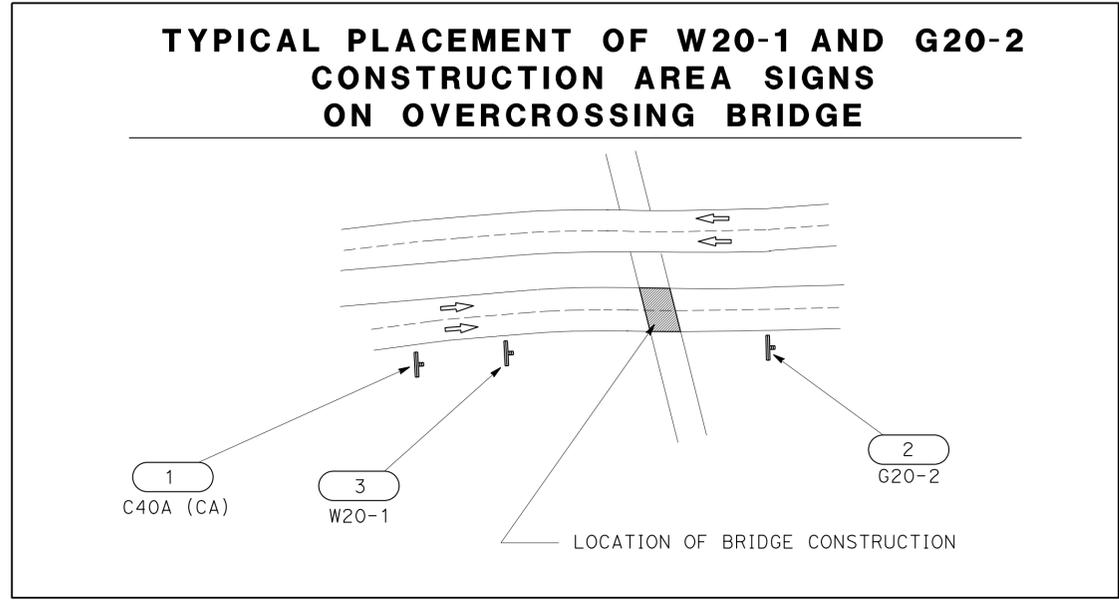
CONSTRUCTION AREA SIGNS

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	37
2	G20-2	48 X 24	PORTABLE	36
3	W20-1	48 X 48	PORTABLE	40
15	SC6-4 (CA)	48 X 60	PORTABLE	33
16	R4-11	48 X 48	PORTABLE	2

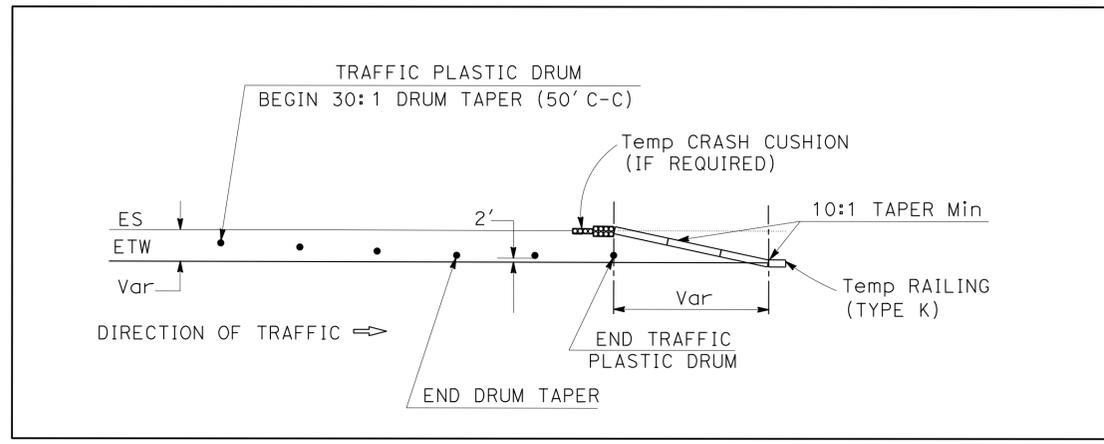
LEGEND:

(X) = CONSTRUCTION AREA SIGNS

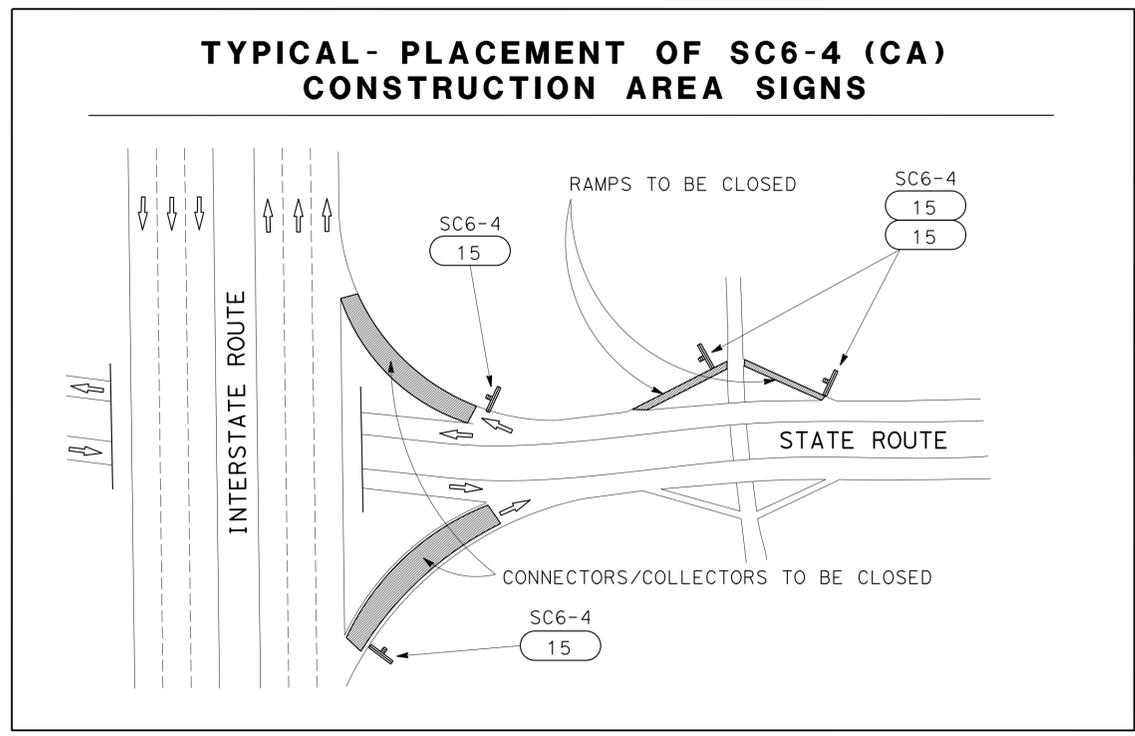
TYPICAL PLACEMENT OF W20-1 AND G20-2 CONSTRUCTION AREA SIGNS ON OVERCROSSING BRIDGE



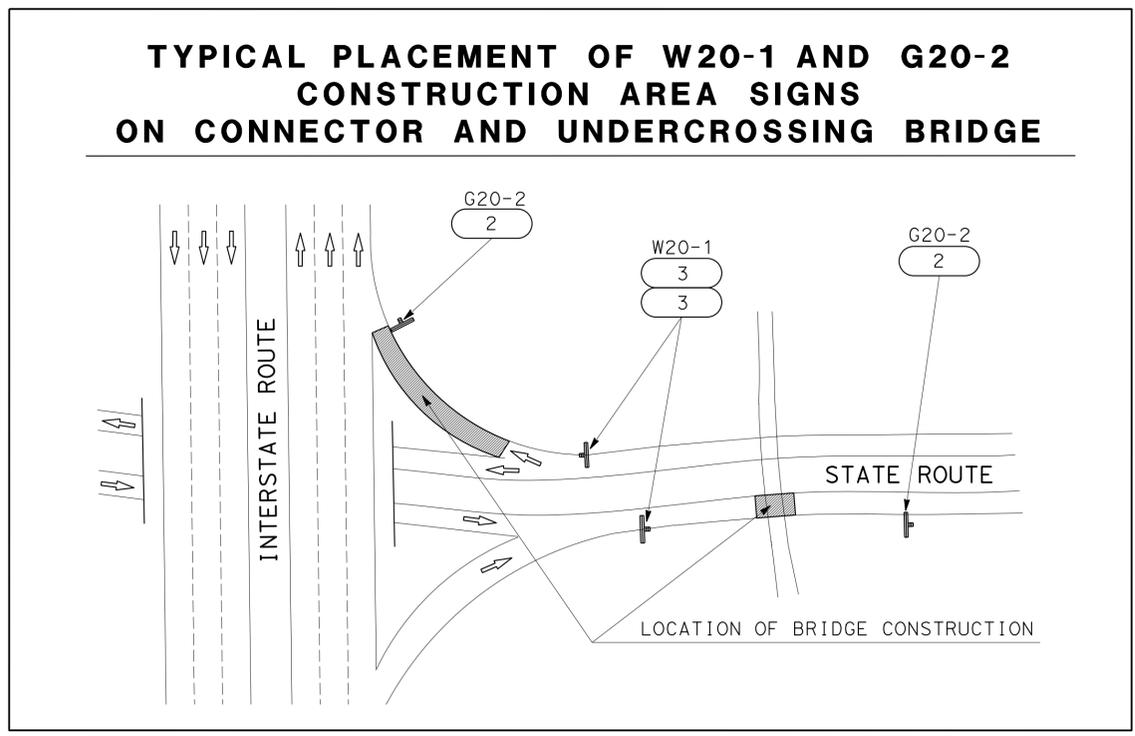
TYPICAL PLACEMENT OF TRAFFIC PLASTIC DRUM



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



TYPICAL PLACEMENT OF W20-1 AND G20-2 CONSTRUCTION AREA SIGNS ON CONNECTOR AND UNDERCROSSING BRIDGE



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

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR LAURA ESPINOZA
 REBECCA IGNACIO
 IRAM SYED
 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.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	3	45

Hamed S. Baha 05-04-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE

HAMED S. BAHA
 No. 74499
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA

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

NOTES:

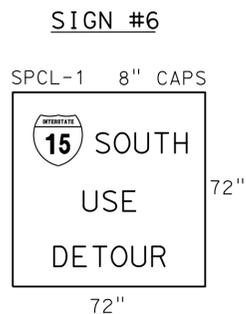
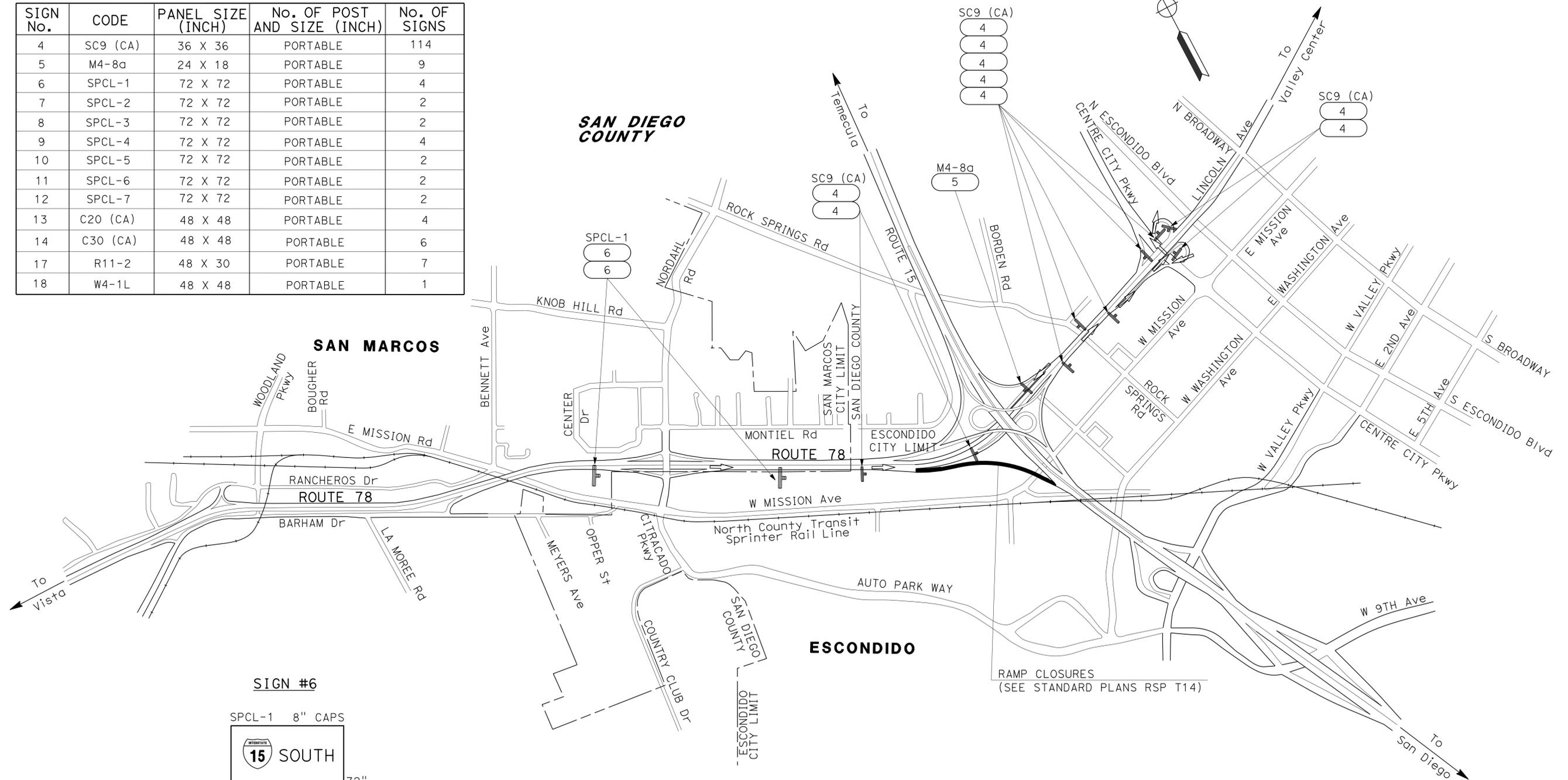
1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.
3. ROTATE ARROW ON SC9 (CA) PANEL TO REFLECT DIRECTION OF DETOUR.
4. SEE CONSTRUCTION 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

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	114
5	M4-8a	24 X 18	PORTABLE	9
6	SPCL-1	72 X 72	PORTABLE	4
7	SPCL-2	72 X 72	PORTABLE	2
8	SPCL-3	72 X 72	PORTABLE	2
9	SPCL-4	72 X 72	PORTABLE	4
10	SPCL-5	72 X 72	PORTABLE	2
11	SPCL-6	72 X 72	PORTABLE	2
12	SPCL-7	72 X 72	PORTABLE	2
13	C20 (CA)	48 X 48	PORTABLE	4
14	C30 (CA)	48 X 48	PORTABLE	6
17	R11-2	48 X 30	PORTABLE	7
18	W4-1L	48 X 48	PORTABLE	1



FOR LOCATION 8
 EB Rte 78 CONNECTOR TO SB Rte 15
TRAFFIC HANDLING PLAN
 NO SCALE
TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: LAURA ESPINOZA
 REBECCA IGNACIO
 IRAM SYED
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 REVISED BY: [blank]
 DATE REVISED: [blank]

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: LAURA ESPINOZA
 REBECCA IGNACIO
 IRAM SYED
 CALCULATED/DESIGNED BY: CHECKED BY:
 REVISED BY: DATE REVISED:

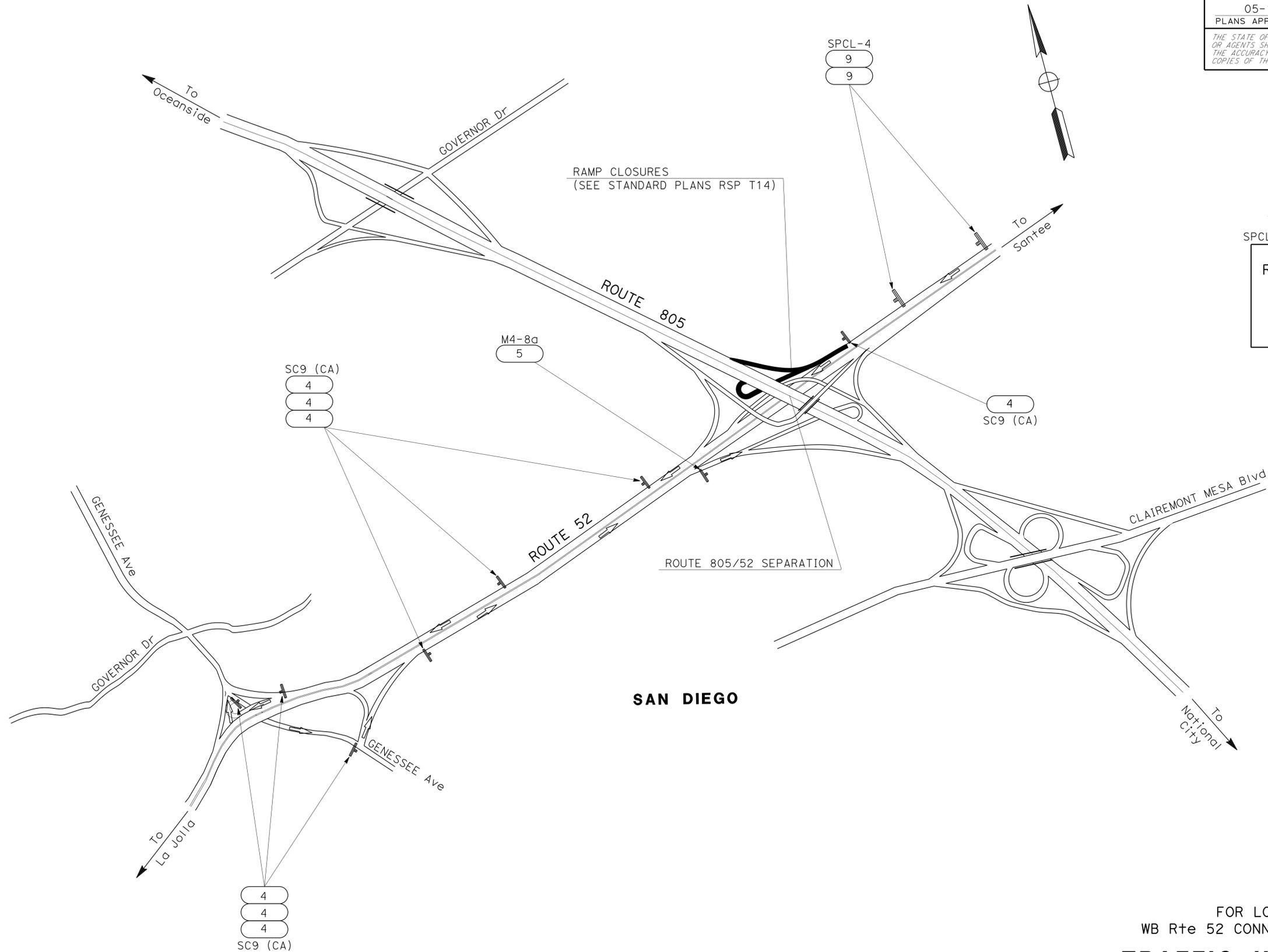
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	7	45

Hamed S. Baha 05-04-16
 REGISTERED CIVIL ENGINEER DATE

05-16-16
 PLANS APPROVAL DATE

HAMED S. BAHHA
 No. 74499
 Exp. 12-31-17
 CIVIL

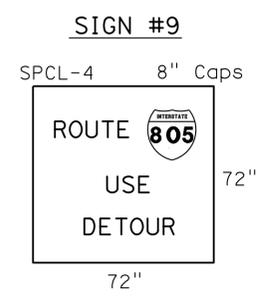
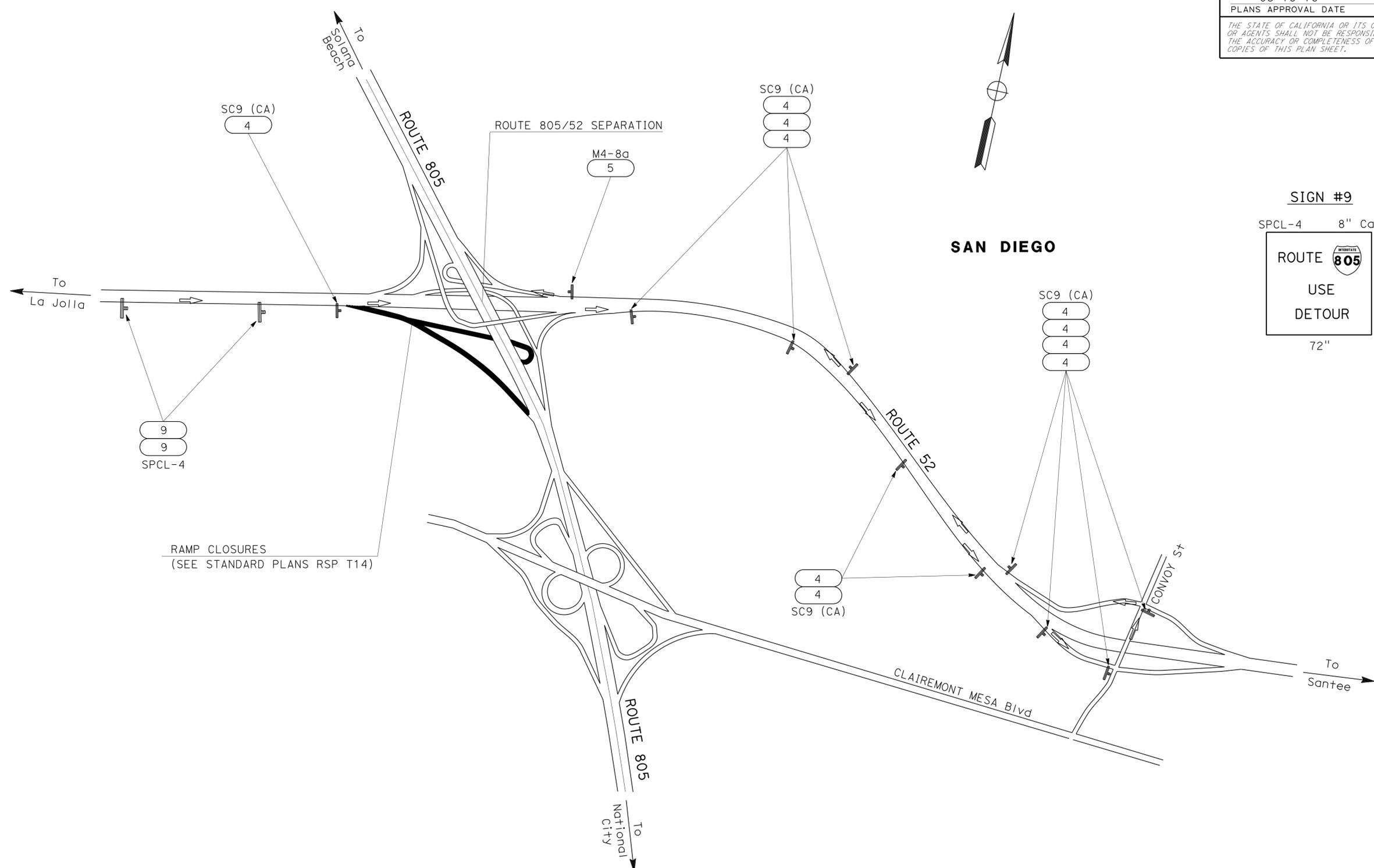
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



FOR LOCATION 25 & 35
 WB Rte 52 CONNECTOR TO NB/SB Rte 805
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	8, 15, 52, 56, 67, etc.	Var	8	45
<i>Hamed S. Baha</i> 05-04-16 REGISTERED CIVIL ENGINEER DATE					
05-16-16				PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REBECCA IGNACIO	REVISOR
Caltrans TRAFFIC DESIGN	LAURA ESPINOZA	IRAM SYED	DATE
		CHECKED BY	DATE
		DESIGNED BY	DATE

FOR LOCATION 26
 EB Rte 52 CONNECTOR TO Rte 805
TRAFFIC HANDLING PLAN
 NO SCALE **TH-6**

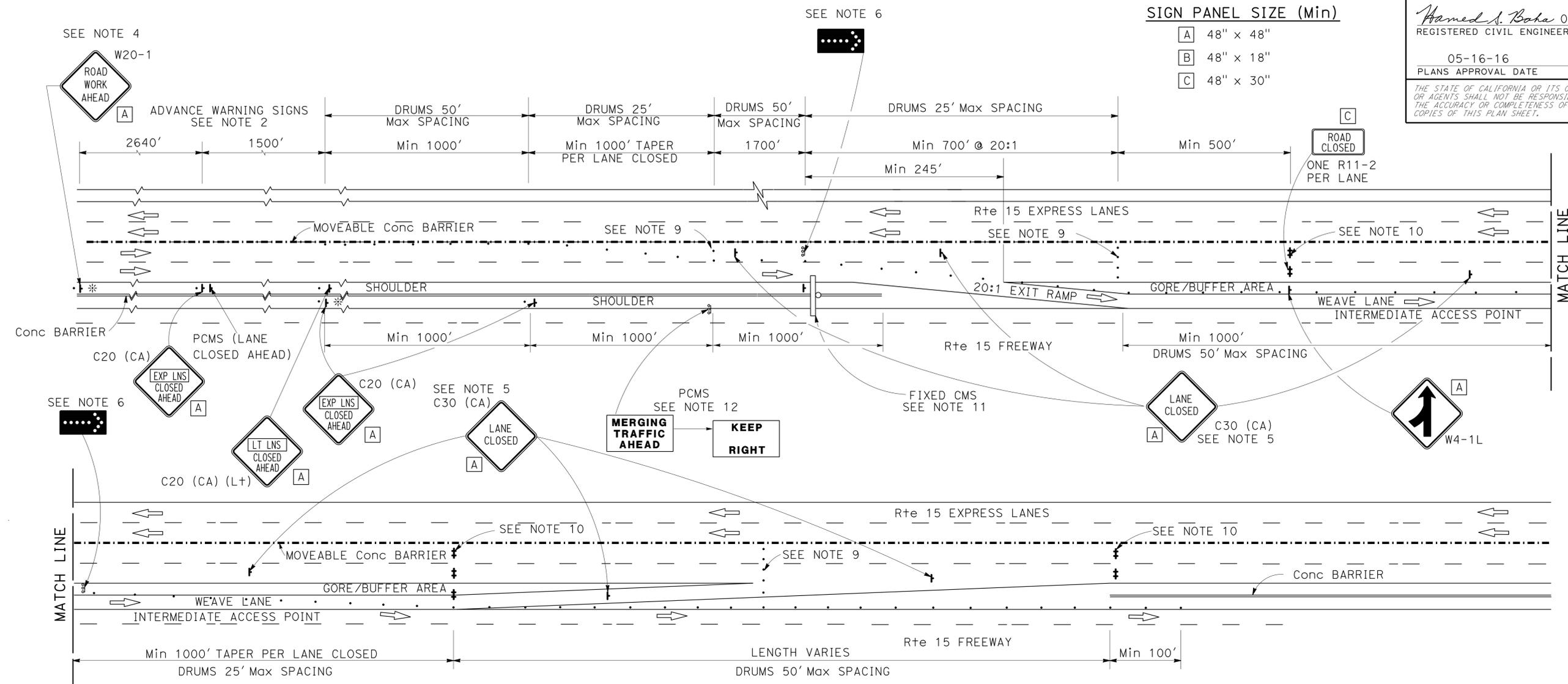
APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	12	45

Hamed S. Baha 05-04-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE

HAMED S. BAHHA
 No. 74499
 Exp. 12-31-17
 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 15 EXPRESS LANES COMPLETE CLOSURE: 2+2 LANE CONFIGURATION

NOTES:

- AT LEAST ONE PERSON SHALL BE ASSIGNED TO PROVIDE FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR EXPRESS LANE CLOSURES.
- 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 FLOURESCENT RED-ORANGE IN COLOR. FLASHING BEACONS SHALL BE PLACED AT THE LCOATIONS INDICATED FOR EXPRESS LANE CLOSURE DURING HOURS OF DARKNESS.
- A C14 (CA) "END ROAD WORK" SIGN, AS APPROPRIATE, SHALL BE PLACED AT THE END OF THE EXPRESS 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 AND C11 (CA) "ROAD WORK NEXT ___ MILES", USE A C20 (CA) SIGN FOR THE FIRST ADVANCE WARNING SIGN.
- PLACE A C30 (CA) SIGN EVERY 2000' THROUGHOUT LENGTH OF EXPRESS LANE CLOSURE.
- ONE FLASHING ARROW SIGN FOR EACH EXPRESS LANE CLOSED. THE FIRST FLASHING ARROW SIGN SHALL BE TYPE I. ALL OTHERS MAY BE EITHER TYPE I OR TYPE II.
- A MINIMUM 1500' OF SIGHT DISTANCE SHALL BE PROVIDED WHERE POSSIBLE FOR VEHICLES APPROACHING THE FIRST FLASHING ARROW SIGN. EXPRESS LANE CLOSURES SHALL NOT BEGIN AT THE TOP OF CREST VERTICAL CURVE OR ON A HORIZONTAL CURVE.
- ALL DRUMS USED FOR EXPRESS LANE CLOSURES DURING THE HOURS OF DARKNESS SHALL BE FITTED WITH RETROREFLECTIVE BANDS (OR SLEEVES) AS SPECIFIED IN THE SPECIFICATIONS.
- A MINIMUM OF 3 DRUMS SHALL BE PLACED TRANSVERSELY ACROSS EACH CLOSED EXPRESS LANE AND SHOULDER AT EACH LOCATION WHERE A TAPER ACROSS AN EXPRESS LANE ENDS AND EVERY 2000'. TWO TYPE II BARRICADES MAY BE USED INSTEAD OF THE 3 DRUMS. THE TRANSVERSE ALIGNMENT OF THE DRUMS OR BARRICADES ON THE CLOSED SHOULDER MAY BE SHIFTED FROM THE TRANSVERSE ALIGNMENT TO PROVIDE ACCESS TO THE WORK.
- A MINIMUM OF TWO TYPE II BARRICADES SHALL BE PLACED ACROSS EACH CLOSED EXPRESS 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 ALIGNMENT TO PROVIDE ACCESS TO THE WORK.
- IF FIXED CMS AVAILABLE PRIOR TO IAP, CONTACT THE ENGINEER AND REQUEST ACTIVATION OF CMS. CMS MESSAGE MUST READ "EXPRESS LANES CLOSED."
- THE CHANGEABLE MESSAGE SIGN SHALL BE SEQUENCED TO SHOW THE "MERGING TRAFFIC AHEAD" MESSAGE FIRST, FOLLOWED BY THE "KEEP RIGHT" MESSAGE.
- UNLESS OTHERWISE SPECIFIED, ALL TEMPORARY WARNING SIGNS SHALL HAVE BLACK LEGEND ON ORANGE BACKGROUND. CALIFORNIA CODE ARE DESIGNATED BY (CA). OTHERWISE, FEDERAL (MUTCD) CODES ARE SHOWN.

LEGEND:

- TRAFFIC DRUM
- † PORTABLE SIGN
- ‡ BARRICADE
- ⬇️ FLASHING ARROW SIGN (FAS)
- ⬇️ FAS SUPPORT OR PCMS TRAILER
- ➡️ DIRECTION OF TRAVEL
- * PORTABLE FLASHING BEACON
- IAP INTERMEDIATE ACCESS POINT
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- TMC TRANSPORTATION MANAGEMENT CENTER

FOR LOCATION 3
 SB Rte 15 HOV CONNECTOR TO SB Rte 163
TRAFFIC HANDLING PLAN
 TH-10
 NO SCALE

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

USERNAME => s127400
 DGN FILE => 1114000039ma010.dgn

RELATIVE BORDER SCALE
 IS IN INCHES

UNIT 2773

PROJECT NUMBER & PHASE

11140000391

LAST REVISION | DATE PLOTTED => 13-JUN-2016
 05-11-16 | TIME PLOTTED => 11:14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR
 LAURA ESPINOZA

CALCULATED/DESIGNED BY
 CHECKED BY

REBECCA IGNACIO
 IRAM SYED

REVISED BY
 DATE

REVISIONS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	13	45

Hamed S. Baha 05-04-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 HAMED S. BAHA
 No. 74499
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA

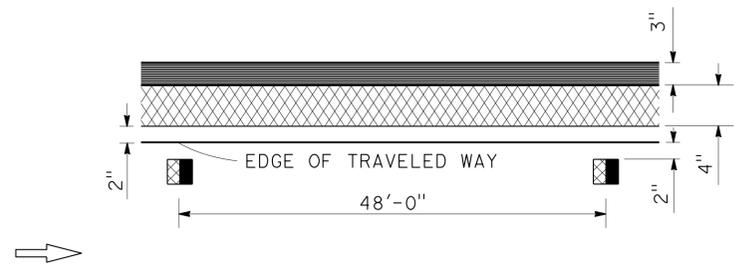
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MARKERS

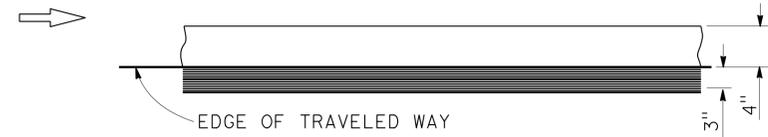
-  TYPE G ONE-WAY CLEAR RETROREFLECTIVE
-  TYPE H ONE-WAY YELLOW RETROREFLECTIVE

LINES

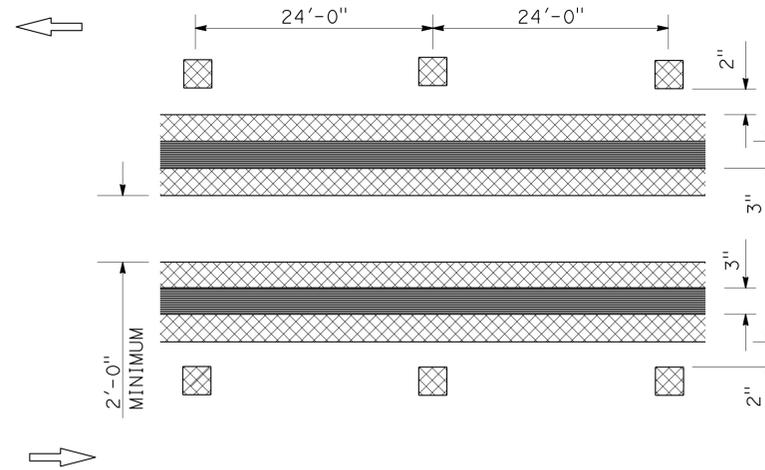
-  4" WHITE THERMOPLASTIC STRIPE
-  4" YELLOW THERMOPLASTIC STRIPE
-  3" BLACK PAINT STRIPE
-  DIRECTION OF TRAVEL



DETAIL 25 (Mod)



DETAIL 27B (Mod)



DETAIL 29 (Mod)

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	14	45

Hamed S. Baha 05-04-16
REGISTERED CIVIL ENGINEER DATE

05-16-16
PLANS APPROVAL DATE

HAMED S. BAHAM
No. 74499
Exp. 12-31-17
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REMOVE THERMOPLASTIC PAVEMENT MARKING

ROUTE	POSTMILE	BRIDGE No.	TYPE	SQFT
76	17.75	57 1029	ARROW III(L)	42
805	23.61	57 0706F	ARROW (18")	25
TOTAL				67

REMOVE PAINTED TRAFFIC STRIPE

ROUTE	POSTMILE	DETAILS	LENGTH (LF)
8	R40.84	11; 25(Mod); 27B	475
15	M11.46; M11.97; M13.33; M14.29; R31.17; R31.32; R31.48; R32.86; R43.28; R48.85	8; 11; 22(Mod); 25(Mod); 27B; 27B(Mod); 29(Mod)	25,220
52	3.86	11; 25(Mod); 27B(Mod)	1,396
56	7.80	11; 25(Mod); 27B(Mod)	868
67	R1.94; R5.19	9; 11; 22(Mod); 25(Mod); 27B; 27B(Mod)	2,100
76	17.75	11; 22(Mod); 27B(Mod)	990
78	11.18; 12.13; R26.79; 35.33	11; 21; 25(Mod); 27; 27B(Mod)	7,830
805	23.58; 23.61	11; 25(Mod); 27B(Mod)	9,335
TOTAL			48,214

REMOVE THERMOPLASTIC TRAFFIC STRIPE

ROUTE	POSTMILE	DETAILS	LENGTH (LF)
15	M14.29; R31.17; R31.48; R43.28	36A; 37; 38B; 39	2,543
67	R1.94	37; 38B	137
76	17.75	38	110
78	R26.79	38A	312
TOTAL			2,965

THERMOPLASTIC PAVEMENT MARKINGS (ENHANCED WET NIGHT VISIBILITY)

LOCATION					TYPE		
Loc	ROUTE	DESCRIPTION	BRIDGE No.	POSTMILE	ARROW I - 18' (SQFT)	ARROW III-L (SQFT)	REMARKS
31	76	HORSE RANCH CREEK	57 1029	17.75		42	
37	805	SB805-EB52 CONNECTOR OC	57 0706F	23.61	25		
SUB-TOTALS					25	42	
TOTAL					67		

REMOVE PAVEMENT MARKER (EA) (N)

ROUTE	POSTMILE	TYPE						REMARKS
		A	AY	C	D	G	H	
8	R40.84	-	-	-	-	4	3	
15	M11.46; M11.97; M13.33; M14.29; R31.17; R31.32; R31.48; R32.86; R43.28; R48.85	532	-	8	127	195	79	
52	3.86	26	-	-	-	8	8	
56	7.80	20	-	-	-	6	6	
67	R1.94; R5.19	13	-	8	19	16	4	
76	17.75	20	-	-	11	12	-	
78	11.18; 12.13; R26.79; 35.33	156	169	-	37	40	18	
805	23.58; 23.61	291	-	-	-	74	44	

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

PAVEMENT DELINEATION QUANTITIES PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR LAURA ESPINOZA
 REBECCA IGNACIO IRAM SYED
 CALCULATED/DESIGNED BY CHECKED BY
 REVISED BY DATE REVISED

LAST REVISION DATE PLOTTED => 13-JUN-2016
 06-08-16 TIME PLOTTED => 11:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	15	45

Hamed S. Baha 05-04-16
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NOTES: 1. *** = NO STRIPING - REPLACE BRIDGE JOINT SEAL WORK ONLY
 2. REPLACE-IN-KIND, UNLESS OTHERWISE NOTED.

PAVEMENT DELINEATION QUANTITIES

LOCATION					BRIDGE LENGTH	DETAIL No.	PAVEMENT MARKER SUMMARY					TRAFFIC STRIPE SUMMARY							REMARKS				
ROUTE	DESCRIPTION	POST MILE	BRIDGE No.				(NON-REFLECTIVE) (EA)		(RETROREFLECTIVE) (EA)			PAINT (LF)	THERMOPLASTIC (LF) (ENHANCED WET NIGHT VISIBILITY)										
							TYPE A	TYPE AY	TYPE C	TYPE D	TYPE G	TYPE H	3" BLACK SOLID (1-COAT)	4" SOLID YELLOW	4" SOLID WHITE	4" WHITE (36-12)	4" WHITE (17-7)	6" WHITE SOLID		8" WHITE (17-7)	8" WHITE SOLID	8" WHITE (12-3)	
8	LAS BANCAS ROAD UC	R40.84	57 0691R	73.16	12 25 (Mod) 27B					4	3	73 73	73	37	146								
15	H AVENUE OC	M11.46	57 0940	399.93							28	622	622										***
15	S15/S163 CONNECTOR SEPARATION	M11.97	57 0961F	622.05	25A (Mod) 27B (Mod)							622	622										
15	MIRAMAR WAY OC	M13.33	57 0907	445.87	22 (Mod) 27B			40				446	892										
15	POMERADO ROAD OC	M14.29	57 0909	359.91	9 27B 29 (Mod) 38 39A							720	1,440	482				1,440					
15	BERNARDO CENTER DRIVE UC	M22.94	57 1118L	224.41																			***
15	RANCHO BERNARDO ROAD UC	M23.69	57 0578	170.60																			***
15	WASHINGTON AVENUE OH	R31.17	57 0812L	365.16	11/13 25 (Mod) 27B (Mod) 36A 37	143				36	13	587 365	587		365			1,693					
15	MISSION AVENUE UC	R31.32	57 0813L		13 25 (Mod) 27B (Mod)			8															
15	MISSION AVENUE UC	R31.32	57 0813R	192.26	11/13 25 (Mod) 27B (Mod)	51					5	195 195	195		195								
15	MISSION AVENUE UC	R31.32	57 0813R	192.26	11/13 25 (Mod) 27B (Mod)	50				13	5	192 192	192		192								
15	ROUTE 15/78 SEPARATION	R31.48	57 0814L	329.07	8 13 25 (Mod) 27B (Mod) 36A	84				22	8	329 329	329		329 120								
15	ROUTE 15/78 SEPARATION	R31.48	57 0814R	329.07	8 13 25 (Mod) 27B (Mod) 36A	84				22	8	329 329	329		329 205								
15	EL NORTE PARKWAY UC	R32.86	57 0818L	173.88	11/13 25 (Mod) 27B (Mod)	45				12	5	174 174	174		174			522					
15	COUNTRY CLUB LANE UC	R33.57	57 0819L	188.98																			***
15	CENTRE CITY Pkwy-N15 OC	R33.94	57 0911S	277.89																			***
15	NUTMEG STEET UC	R34.22	57 0892R	159.12																			***
15	MESA ROCK ROAD UC	R34.89	57 0893R	147.97																			***
15	ESCONDIDO HIGHWAY OC	R43.28	57 0869	629.91	22 (Mod) 27B (Mod) 39			54				630 1,260	1,260		1,260								
15	STEWART CANYON ROAD UC	R48.85	57 0896L	142.06	13 25 (Mod) 27B (Mod)	38				10	4	142 142	142		142								
15	STEWART CANYON ROAD UC	R48.85	57 0896R	140.09	13 25 (Mod) 27B (Mod)	37				10	4	140 140	140		140								
SUB-TOTALS						532	0	8	127	199	82	8,401	6,375	5,557	3,522	1,840	1,260	100	1,050	133			

PAVEMENT DELINEATION QUANTITIES PDQ-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	16	45

Hamed S. Baha 05-04-16
REGISTERED CIVIL ENGINEER DATE

05-16-16
PLANS APPROVAL DATE

HAMED S. BAHAM
No. 74499
Exp. 12-31-17
CIVIL

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PAVEMENT DELINEATION QUANTITIES

LOCATION					DETAIL No.	PAVEMENT MARKER SUMMARY						TRAFFIC STRIPE SUMMARY								REMARKS				
ROUTE	DESCRIPTION	POST MILE	BRIDGE No.	BRIDGE LENGTH		(NON-REFLECTIVE) (EA)		(RETROREFLECTIVE) (EA)				PAINT (LF)	THERMOPLASTIC (LF) (ENHANCED WET NIGHT VISIBILITY)											
						TYPE A	TYPE AY	TYPE C	TYPE D	TYPE G	TYPE H	3" BLACK SOLID (1-COAT)	4" SOLID YELLOW	4" SOLID WHITE	4" BROKEN (36-12)	4" BROKEN (17-7)	6" WHITE SOLID	8" WHITE (17-7)	8" WHITE SOLID		8" WHITE (12-3)			
15	RAINBOW CREEK	R52.49	57 0937L	224.08																	***			
15	RAINBOW CREEK	R52.49	57 0937R	206.04																	***			
52	PARK UC	1.93	57 0771L	87.93																	***			
52	PARK UC	1.93	57 0771R	79.09																	***			
52	SAN CLEMENTE CREEK	3.86	57 0921L	132.87	11/13	13				4														
					25 (Mod)				4	133	133													
					27B (Mod)																			
52	SAN CLEMENTE CREEK	3.86	57 0921R	132.87	11/13	13				4														
					25 (Mod)				4	133	133													
					27B (Mod)																			
56	RANCHO PENASQUITOS Blvd UC	7.80	57 1009L	216.87	13	20				6														
					25 (Mod)				6	217	217													
					27B (Mod)																			
67	PROSPECT AVENUE OC	R1.94	57 0461	205.05	9					10														
					22 (Mod)				19	205	410													
					27B (Mod)																			
					37				8															
67	CHANNEL ROAD UC	R5.19	57 0562R	132.87	11/13	13				4														
					25 (Mod)				4	133	133													
					27B (Mod)																			
76	HORSE RANCH CREEK	17.75	57 1029	109.91	11/13	20				6														
					22 (Mod)				11	110	220													
					27B (Mod)																			
78	LAS POSAS ROAD UC	11.18	57 0385	155.84	38					6														
					11/13	54				14														
					25 (Mod)																			
78	SAN MARCOS BOULEVARD UC	12.13	57 0387	240.16	11/13	102				26														
					25 (Mod)																			
					27B (Mod)																			
78	GUEJITO CREEK	R26.79	57 0916	155.94	21/23																			
					27B (Mod)																			
					38A																			
78	SANTA MARIA CREEK	35.33	57 0958	241.14	21/23																			
					27B (Mod)																			
					13	181																		
805	ROUTE 805/52 SEPARATION	23.58	57 0685L	714.90	25 (Mod)																			
					27B (Mod)																			
					11/13	110																		
805	S805-E52 CONNECTOR OC	23.61	57 0706F	1294.95	25 (Mod)																			
					27B (Mod)																			
					11/13	110																		
SUB-TOTALS						416	169	8	67	125	51	5,779	3,546	3,918	2,443	410	0	0	1,050	17				
FROM PDQ-2 = SUB-TOTALS						532	0	8	127	199	82	8,401	6,375	5,557	3,522	1,840	1,260	100	1,050	133				
TOTALS						1,132			627			14,180	19,396	5,965	2,250	1,260	100	1,592	150					

*** = NO STRIPING - REPLACE BRIDGE JOINT SEAL WORK ONLY

PAVEMENT DELINEATION QUANTITIES PDQ-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

LAST REVISION DATE PLOTTED => 13-JUN-2016
06-08-16 TIME PLOTTED => 11:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8,15,52 56,67,etc.	Var	17	45

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 05-16-16

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.

REVISED STANDARD PLAN RSP A10B

	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
ℒ	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES
	T
T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
TeI	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

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

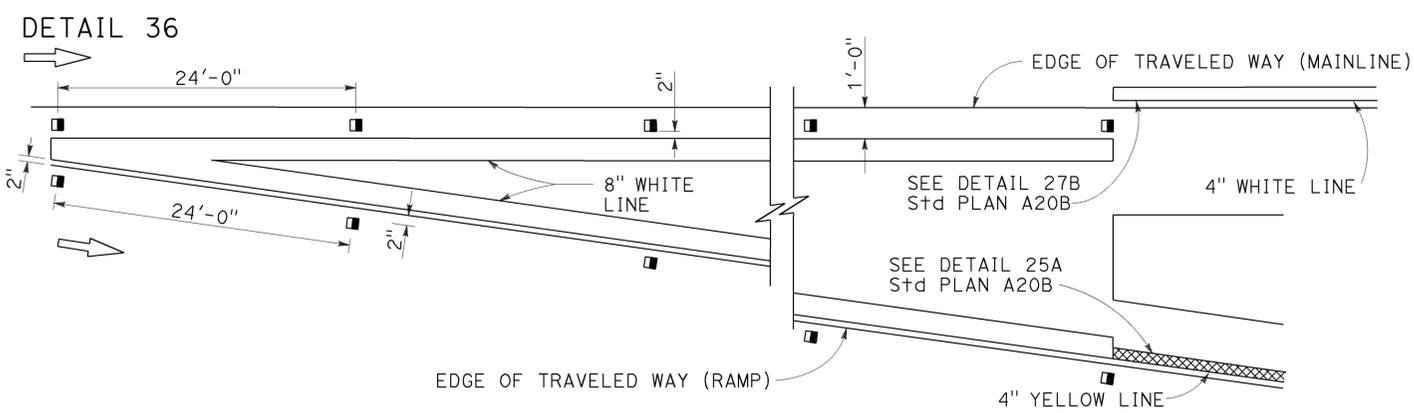
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8,15,52 56,67,etc.	Var	18	45

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

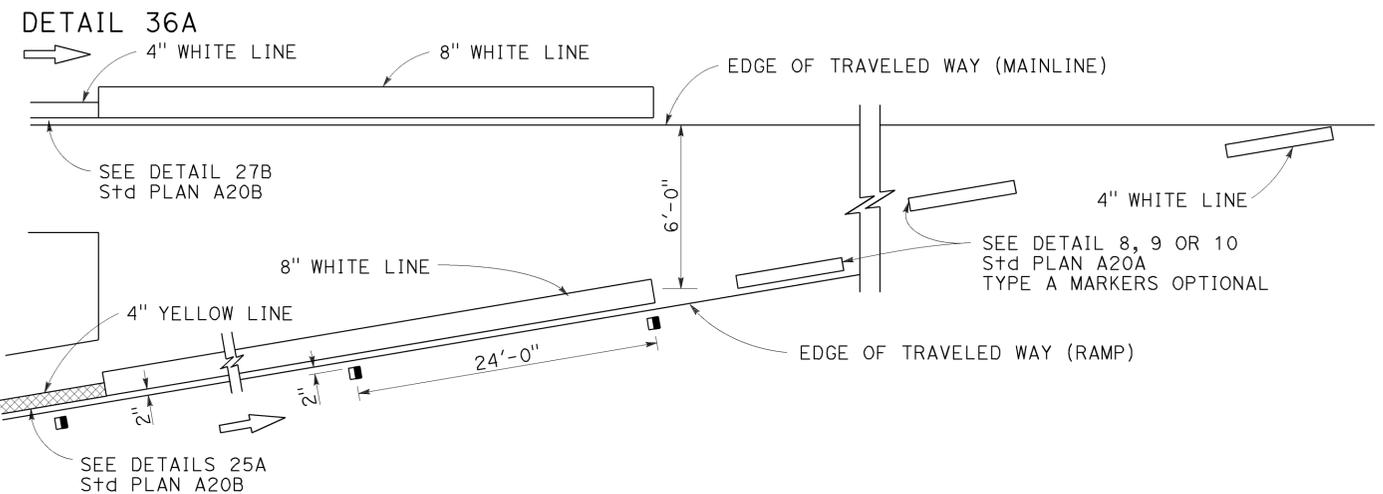
July 19, 2013
 PLANS APPROVAL DATE

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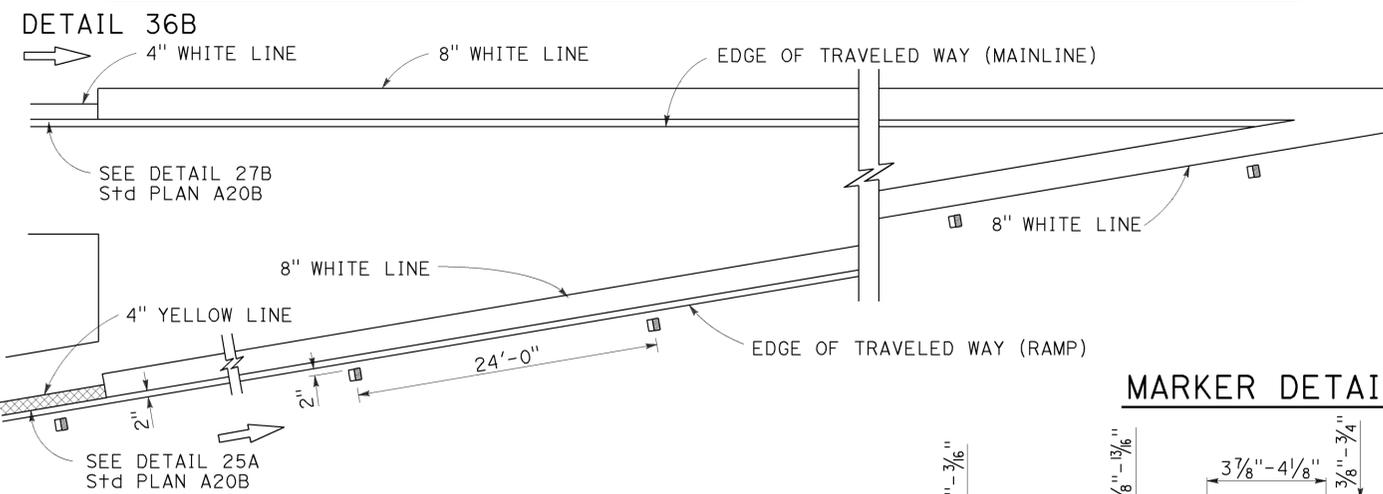
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



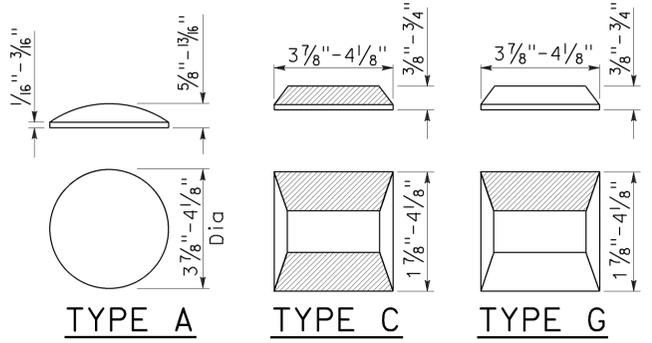
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT



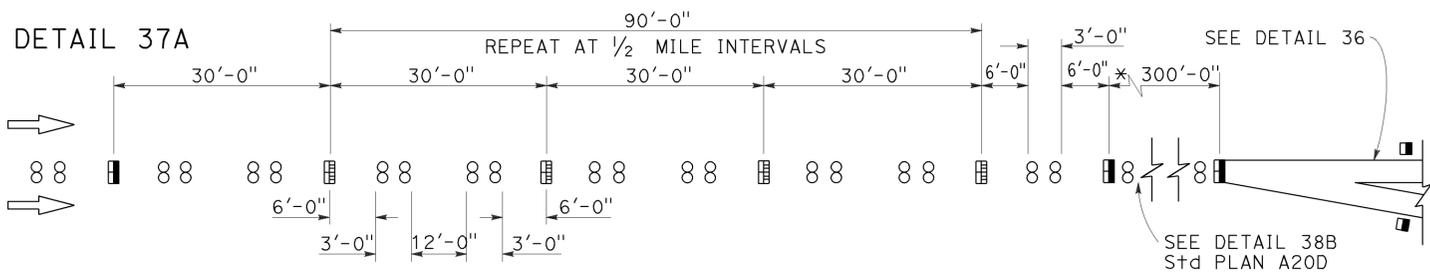
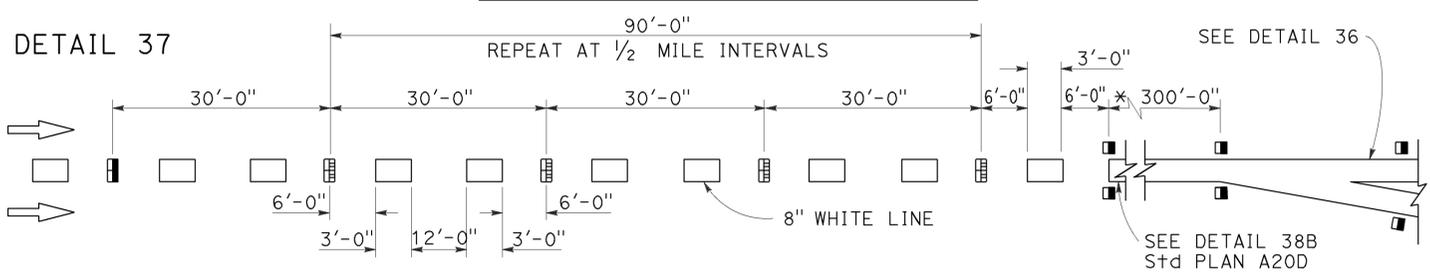
MARKER DETAILS

LEGEND:

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

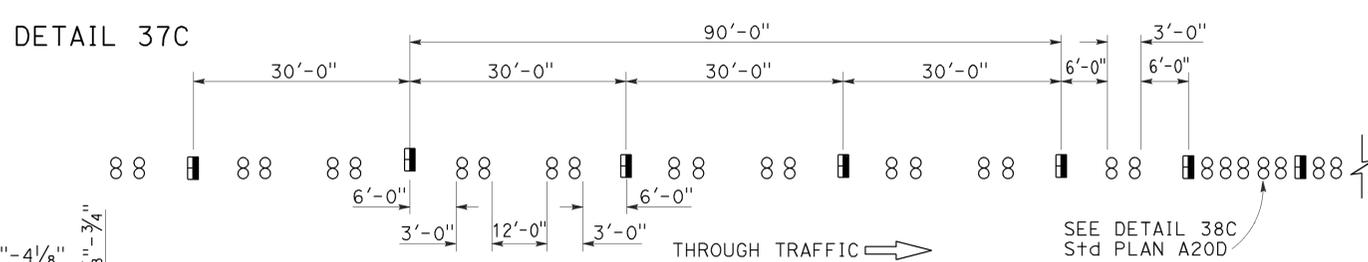
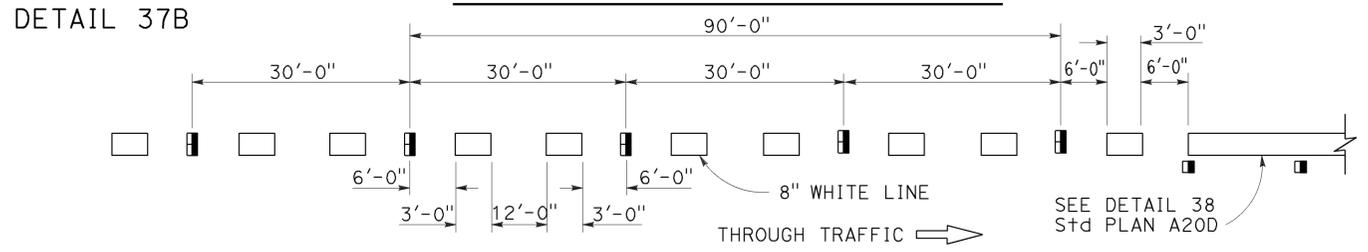


LANE DROP AT EXIT RAMP



* 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

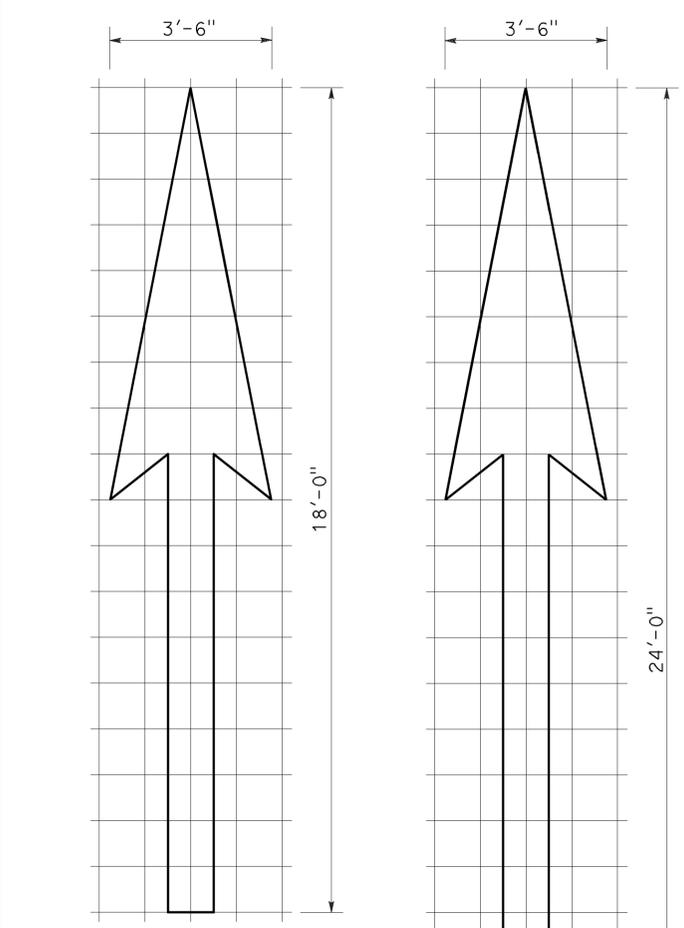
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8,15,52 56,67,etc.	Var	19	45

Registered Professional Engineer
 Roberta L. McLaughlin
 No. C40375
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

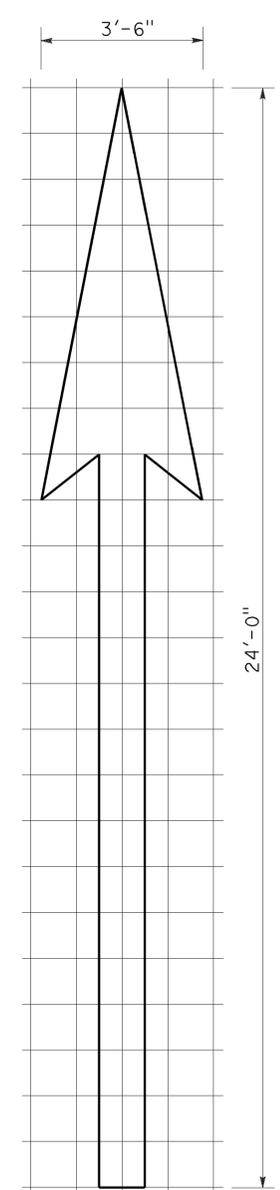
April 20, 2012
 PLANS APPROVAL DATE

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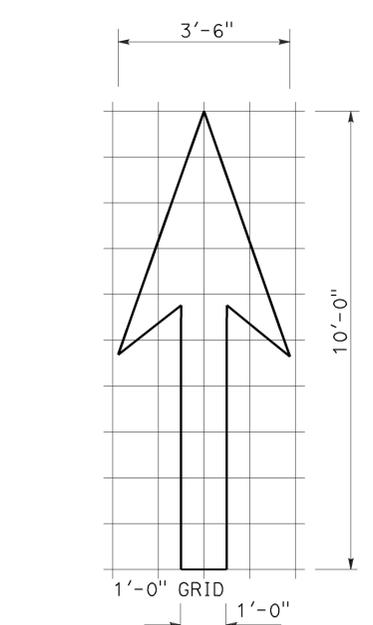
TO ACCOMPANY PLANS DATED 05-16-16



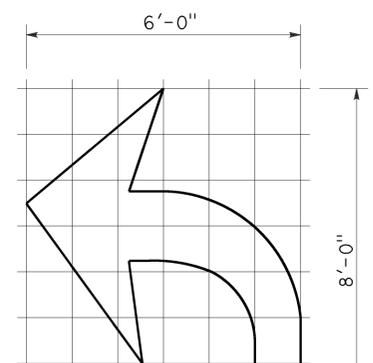
TYPE I 18'-0" ARROW
A=25 ft²



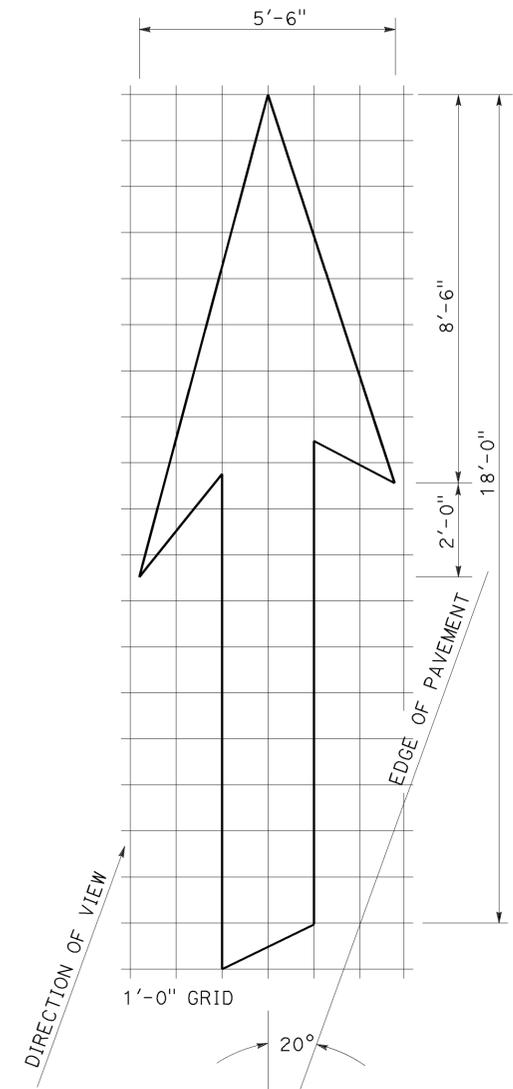
TYPE I 24'-0" ARROW
A=31 ft²



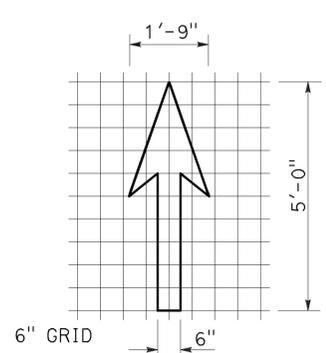
TYPE I 10'-0" ARROW
A=14 ft²



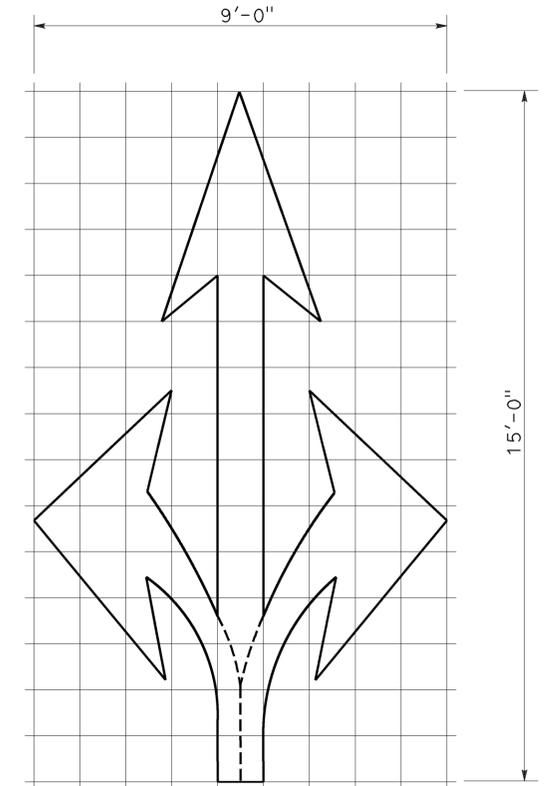
TYPE IV (L) ARROW
A=15 ft²
(For Type IV (R) arrow, use mirror image)



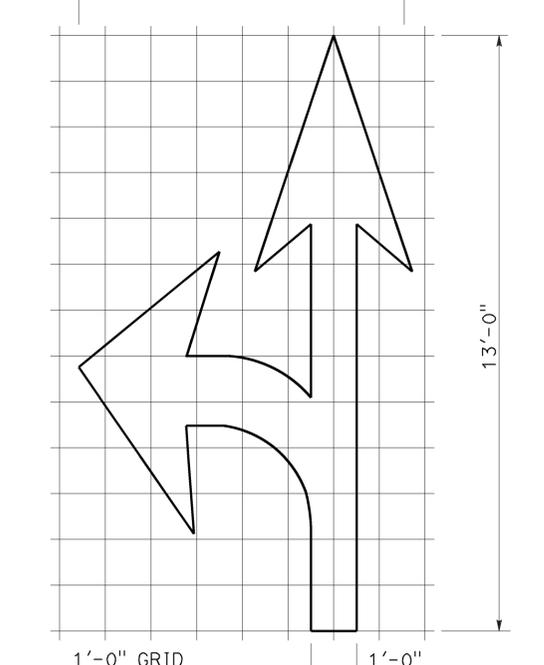
TYPE VI ARROW
A=42 ft²
Right lane drop arrow
(For left lane, use mirror image)



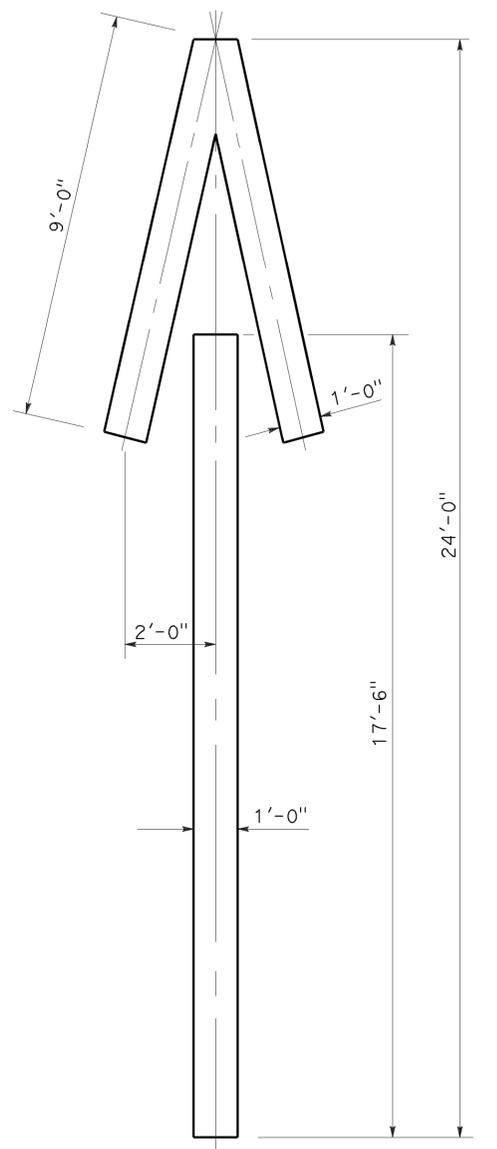
BIKE LANE ARROW
A=3.5 ft²



TYPE VIII ARROW
A=36 ft²



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



TYPE V ARROW
A=33 ft²

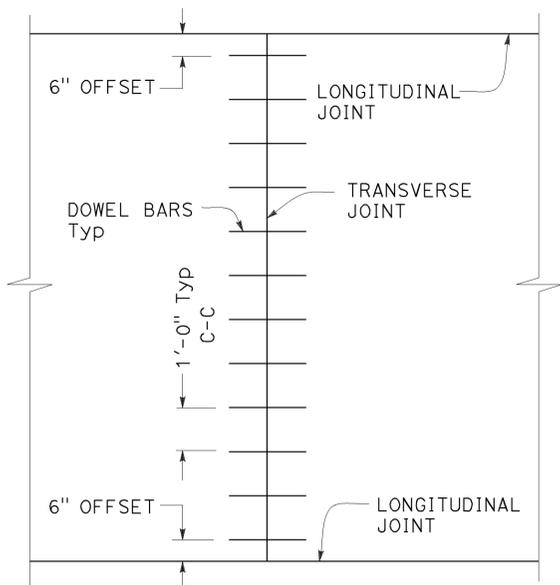
NOTE:
Minor variations in dimensions may be accepted by the Engineer.

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

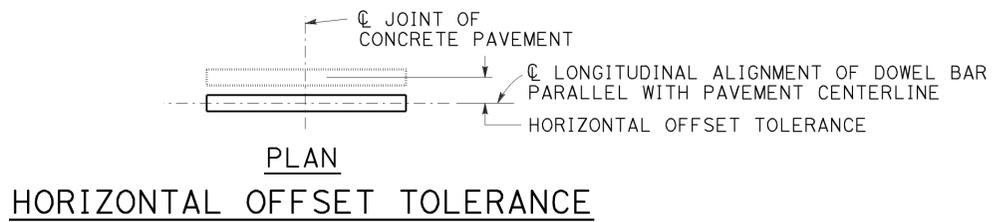
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

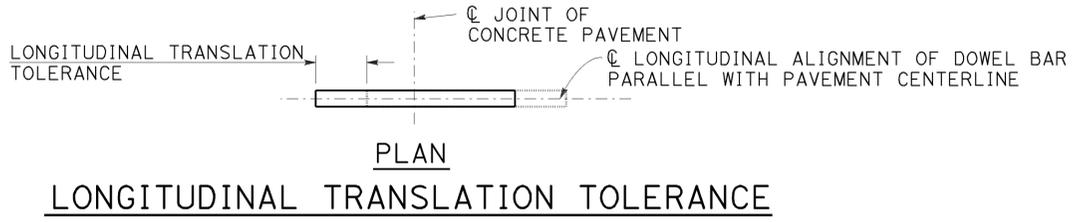
2010 REVISED STANDARD PLAN RSP A24A



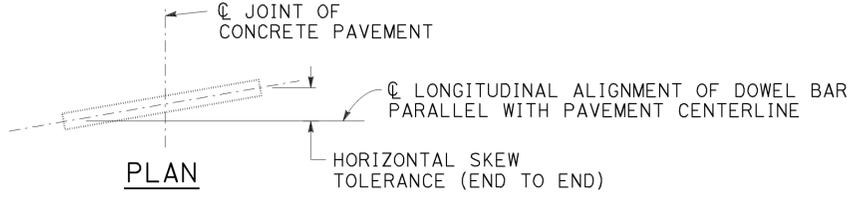
**TRANSVERSE JOINT
DOWEL BAR LAYOUT**



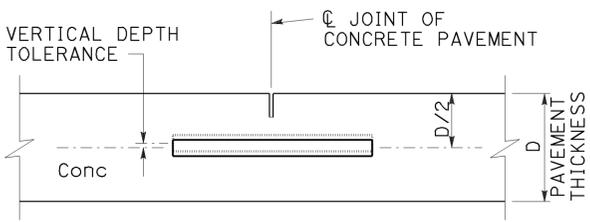
**PLAN
HORIZONTAL OFFSET TOLERANCE**



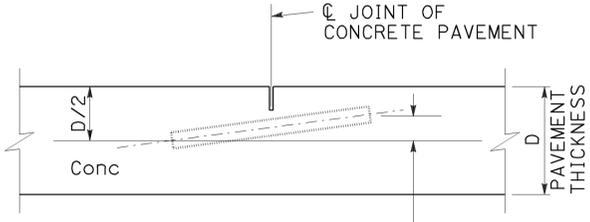
**PLAN
LONGITUDINAL TRANSLATION TOLERANCE**



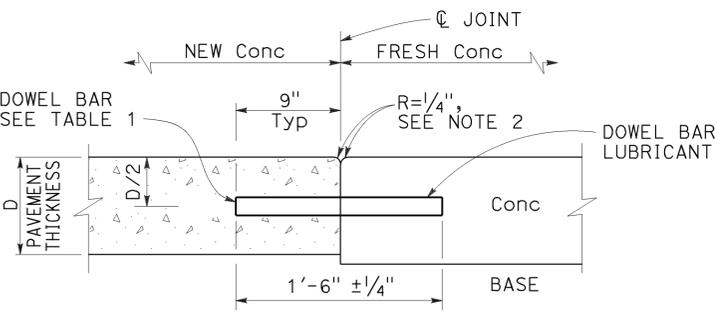
**PLAN
HORIZONTAL SKEW TOLERANCE**



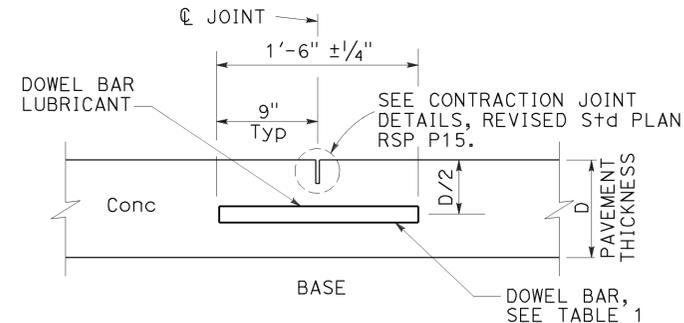
**ELEVATION
VERTICAL DEPTH TOLERANCE**



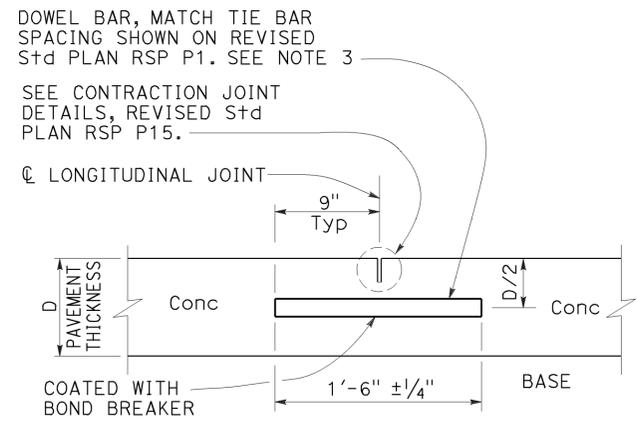
**ELEVATION
VERTICAL SKEW TOLERANCE**



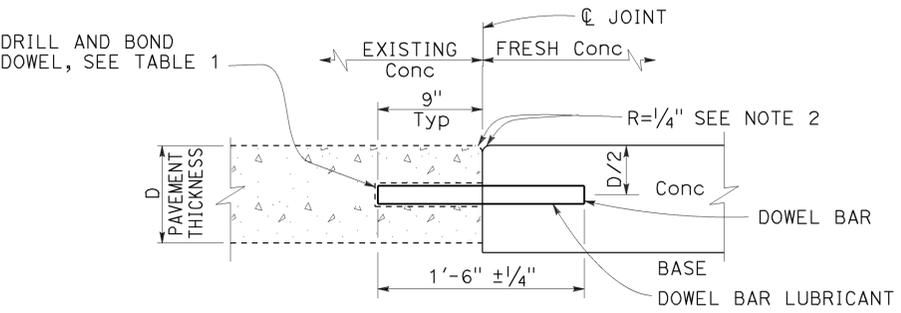
**TRANSVERSE
CONSTRUCTION JOINT DETAIL**



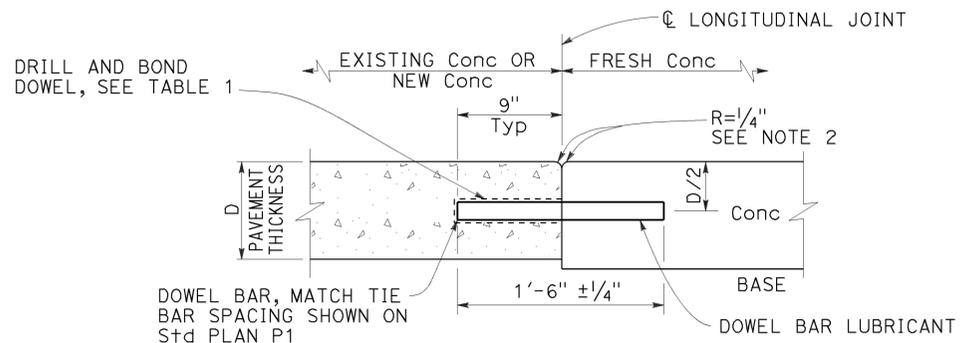
TRANSVERSE CONTRACTION JOINT



**LONGITUDINAL CONTRACTION
JOINT WITH DOWEL BARS**
See Revised Std Plan RSP P18



**TRANSVERSE CONSTRUCTION JOINT
FOR EXISTING CONCRETE PAVEMENT**



**LONGITUDINAL CONSTRUCTION JOINT
WITH DOWEL BARS**
See Revised Std Plan RSP P18

NOTES:

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

TO ACCOMPANY PLANS DATED 05-16-16

TABLE 1

DOWEL BAR DIAMETER TABLE			
PAVEMENT THICKNESS	0.65'	> 0.65' - 0.85'	> 0.85'
MINIMUM DOWEL * BAR DIAMETER	1"	1 1/4"	1 1/2"

* The drilled hole diameter must be 1/8 inch to 3/16 inch larger than the bar diameter.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CONCRETE PAVEMENT
DOWEL BAR
DETAILS**

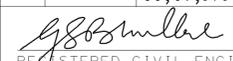
NO SCALE

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

REVISED STANDARD PLAN RSP P10

2010 REVISED STANDARD PLAN RSP P10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8,15,52 56,67,etc.	Var	21	45


 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 05-16-16

TABLE 1

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

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

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

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

TABLE 2

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

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

TABLE 3

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

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

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

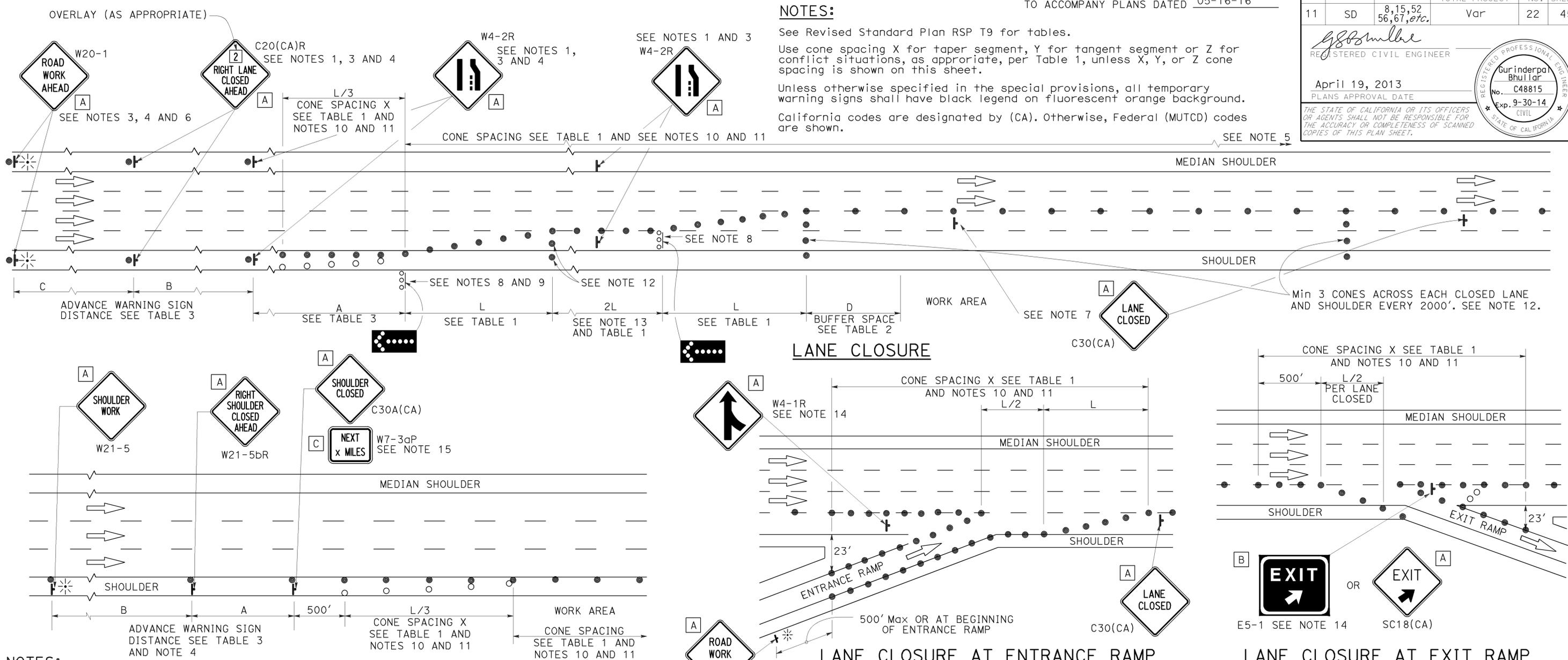
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8,15,52 56,67,etc.	Var	22	45

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.

2010 REVISED STANDARD PLAN RSP T10



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

- 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.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

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

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8,15,52 56,67,etc.	Var	23	45

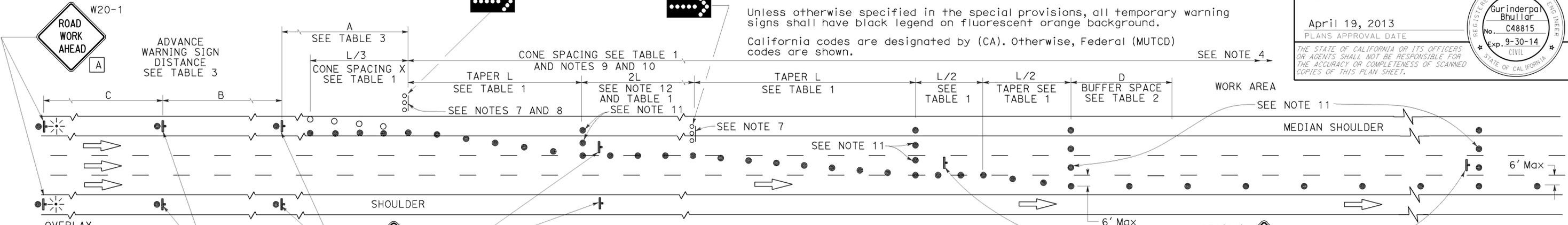
REGISTERED CIVIL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 STATE OF CALIFORNIA

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.

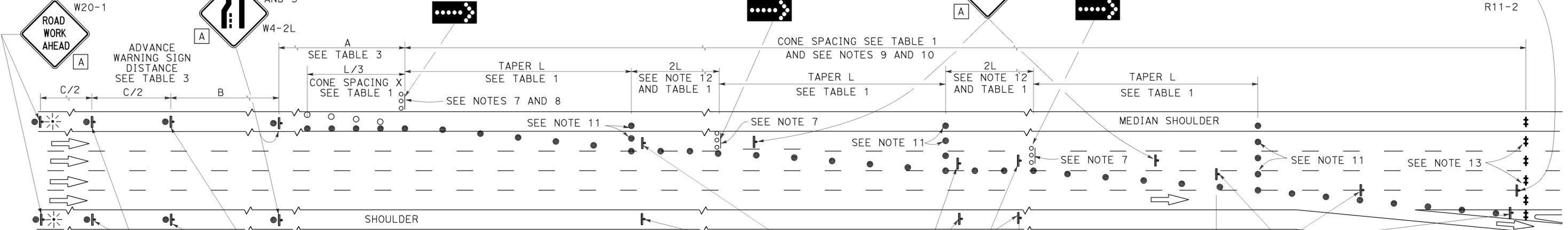
NOTES: See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Unless otherwise specified in the special provisions, all temporary warning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

SEE NOTES 3 AND 5



LANE CLOSURE WITH PARTIAL SHOULDER USE

SEE NOTES 3 AND 5



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT ___ MILES", use a C20(CA) sign for the first advance warning sign.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

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

LEGEND

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

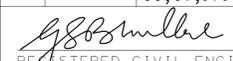
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURES ON
 FREEWAYS AND EXPRESSWAYS**
 NO SCALE

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

REVISED STANDARD PLAN RSP T10A

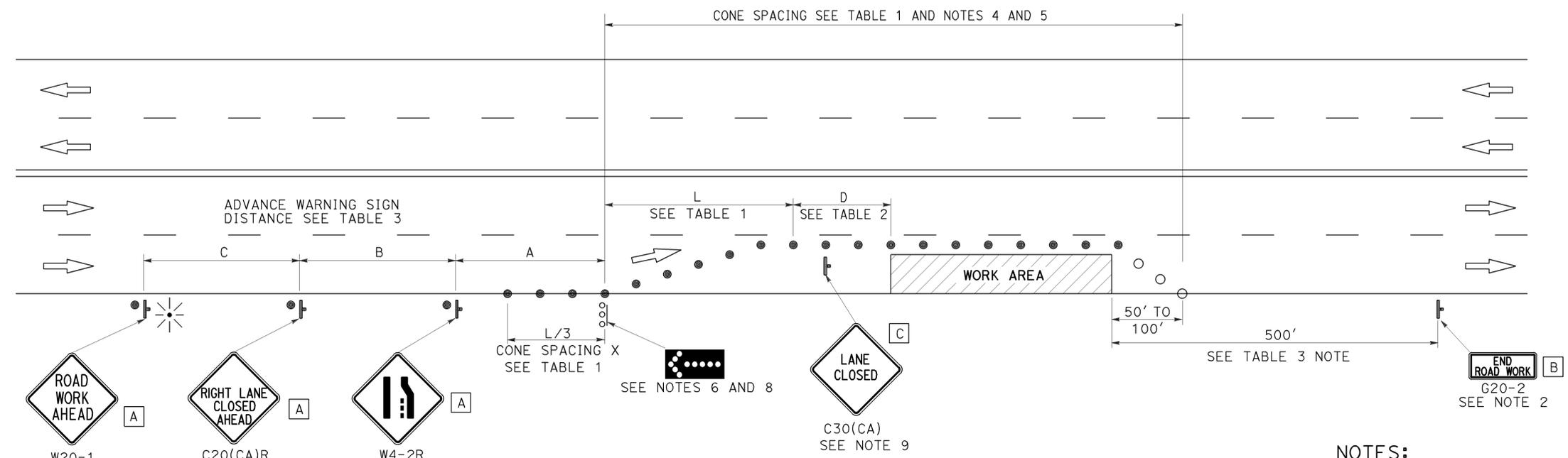
2010 REVISED STANDARD PLAN RSP T10A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8,15,52 56,67,etc.	Var	24	45


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

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

TO ACCOMPANY PLANS DATED 05-16-16



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.

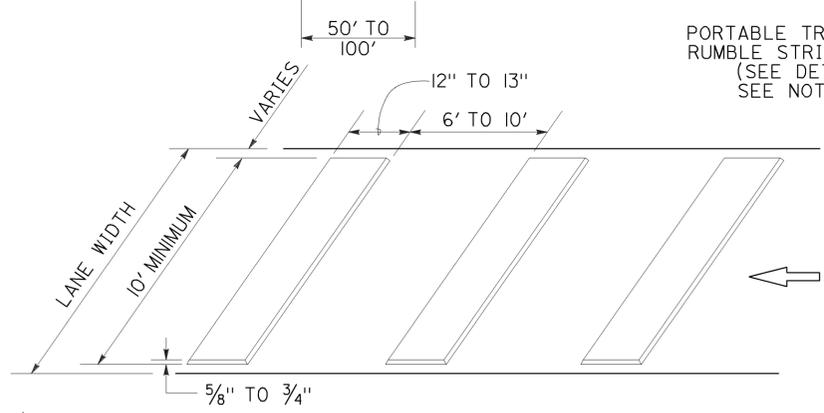
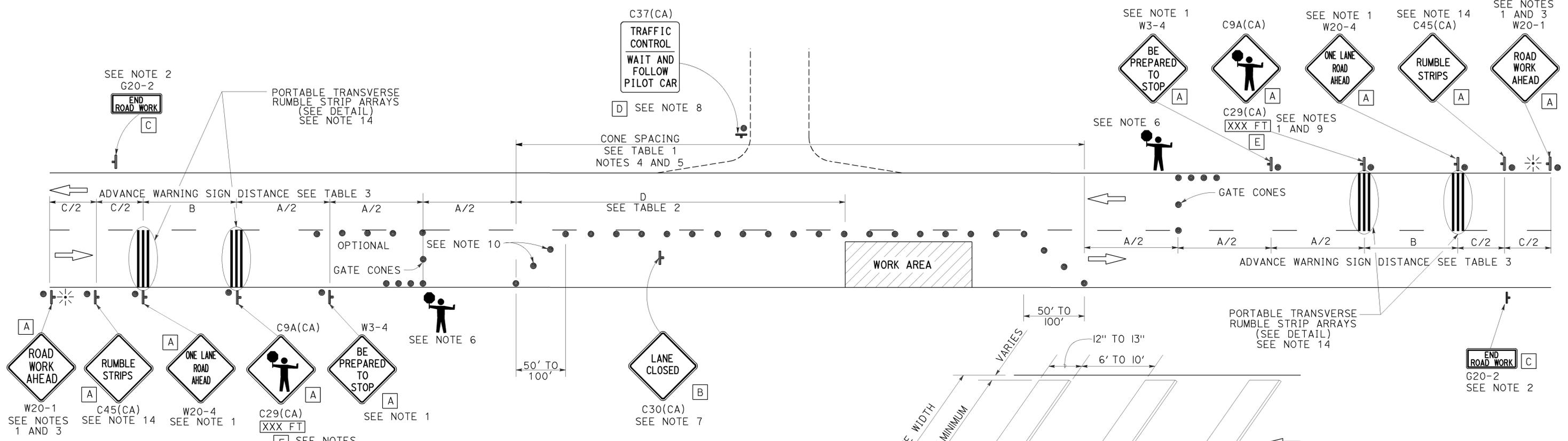
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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 05-16-16



LEGEND

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

SIGN PANEL SIZE (Min)

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

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED OCTOBER 30, 2015 SUPERSEDES RSP T13 DATED OCTOBER 17, 2014, RSP T13 DATED JULY 18, 2014 AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

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

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	8,15,52 56,67, etc.	Var	26	45

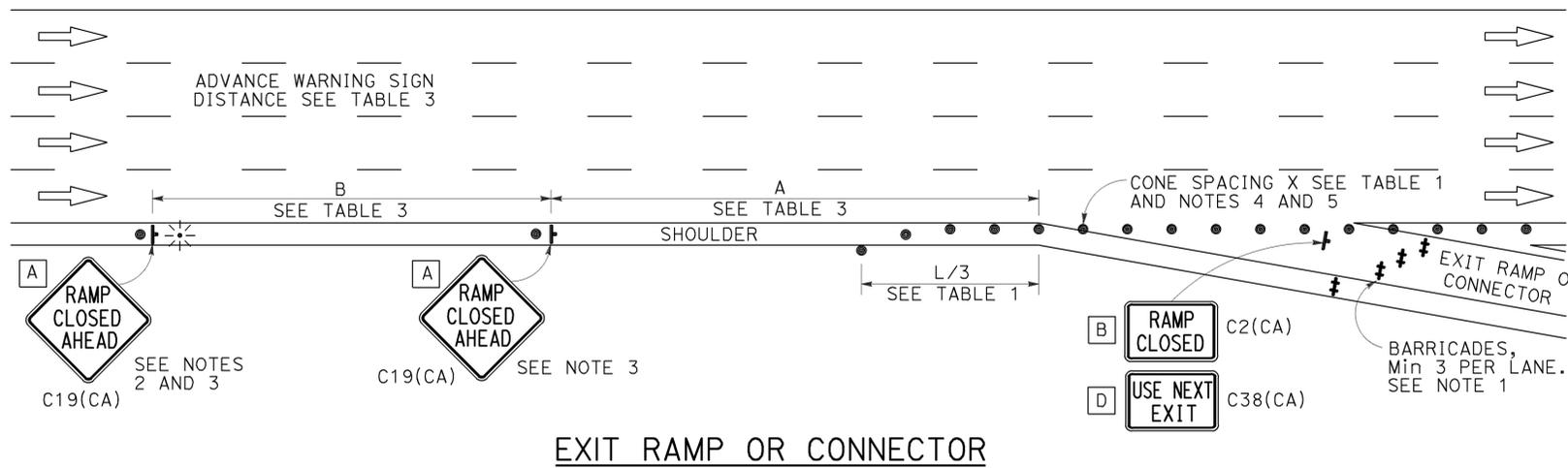
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

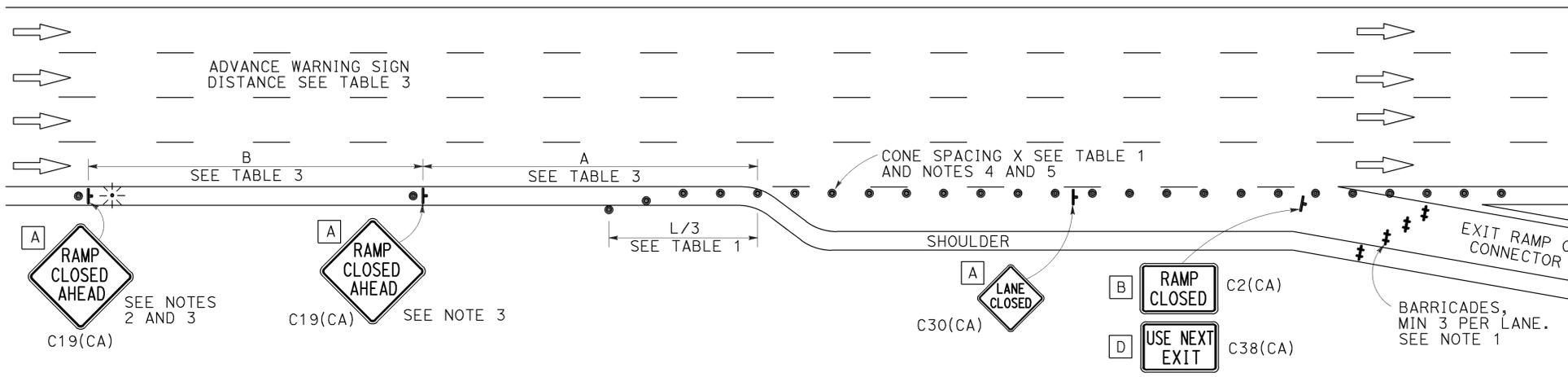
TO ACCOMPANY PLANS DATED 05-16-16

NOTES:

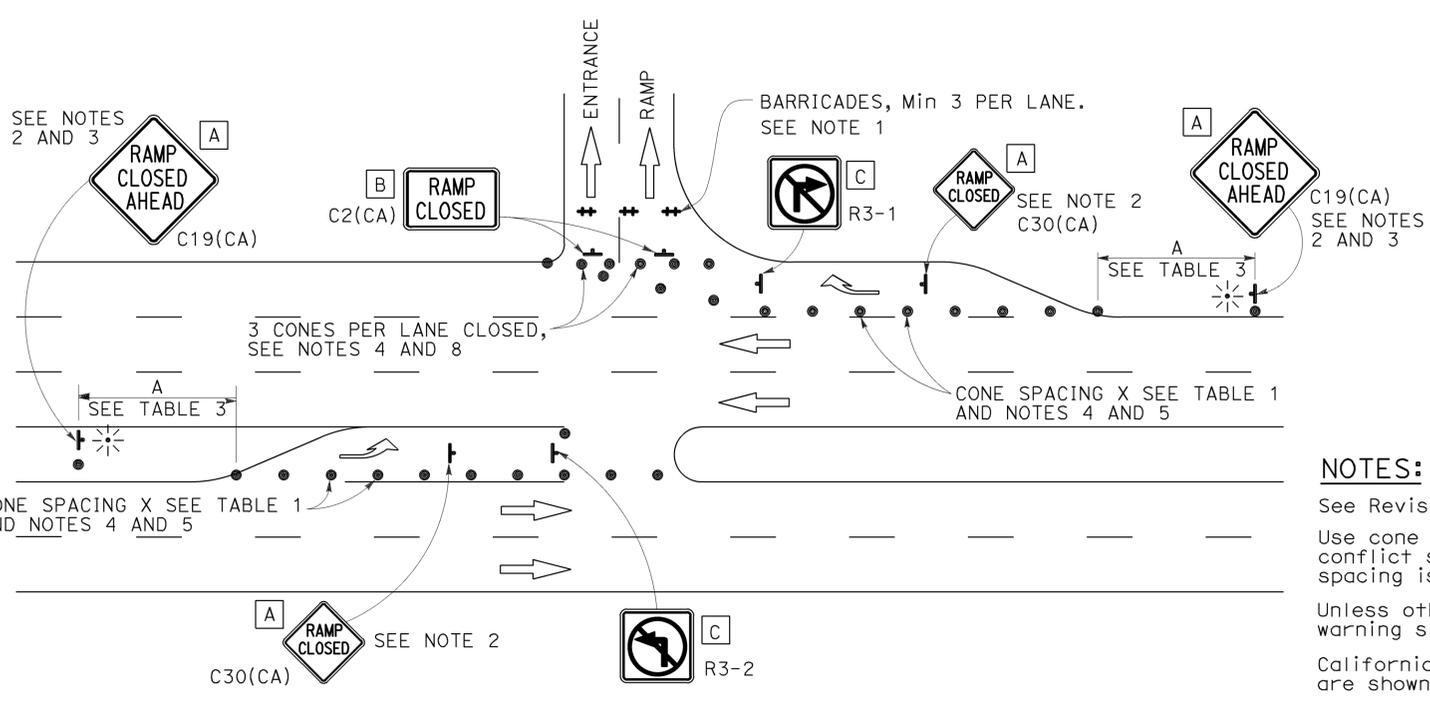
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



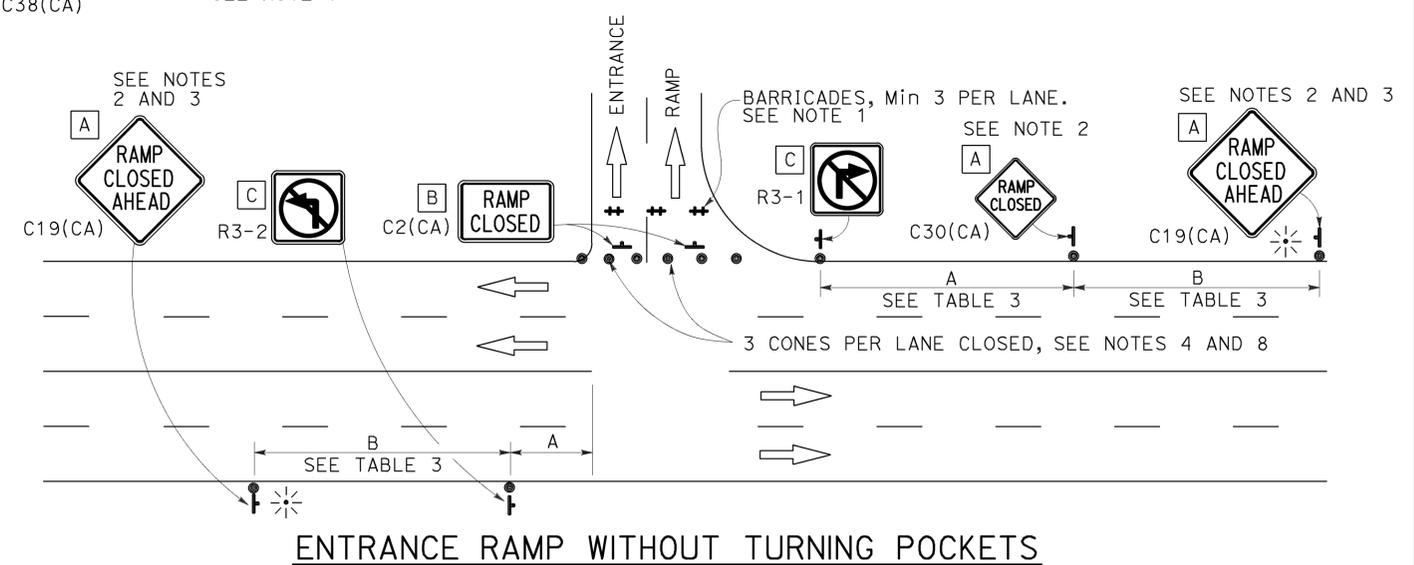
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

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

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

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

REVISED STANDARD PLAN RSP T14

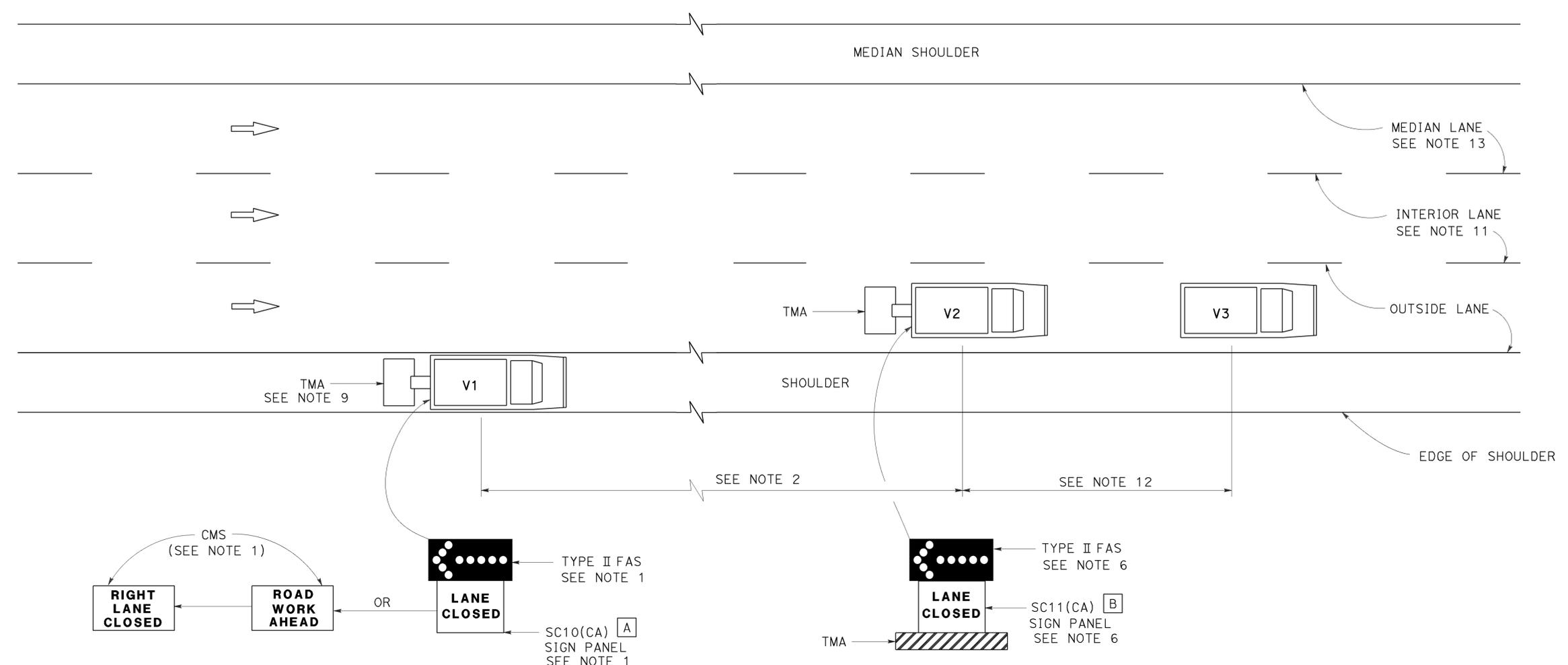
2010 REVISED STANDARD PLAN RSP T14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8,15,52 56,67,etc.	Var	27	45

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

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

TO ACCOMPANY PLANS DATED 05-16-16



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:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

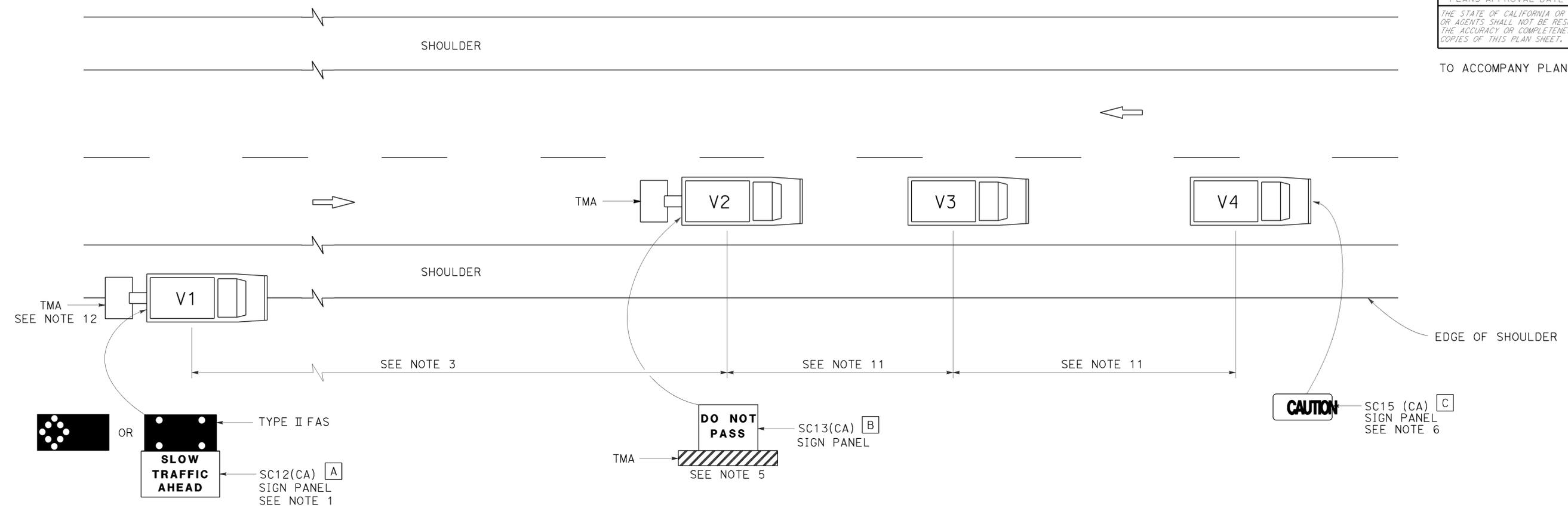
TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS
NO SCALE

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

REVISED STANDARD PLAN RSP T15

2010 REVISED STANDARD PLAN RSP T15

TO ACCOMPANY PLANS DATED 05-16-16



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

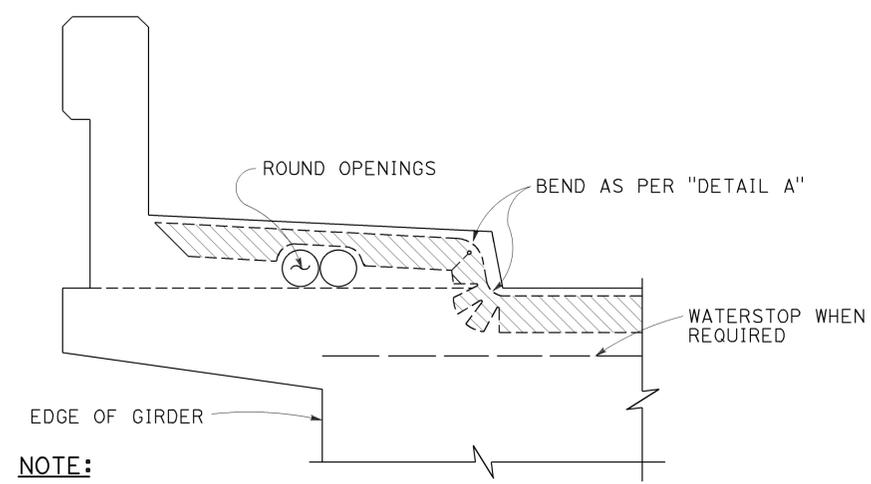
RSP T17 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T17 DATED MAY 20, 2011 - PAGE 245 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17

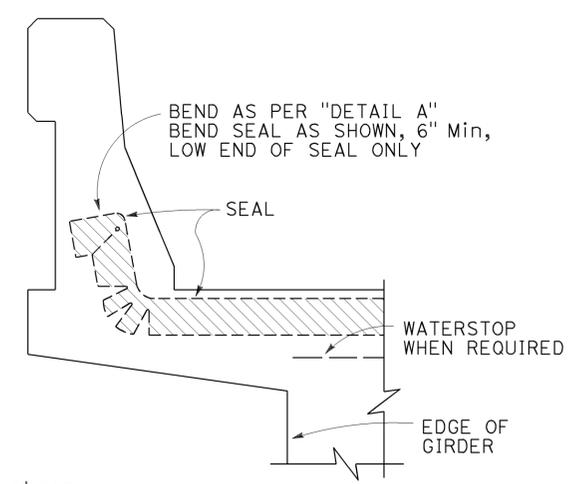
TO ACCOMPANY PLANS DATED 05-16-16

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

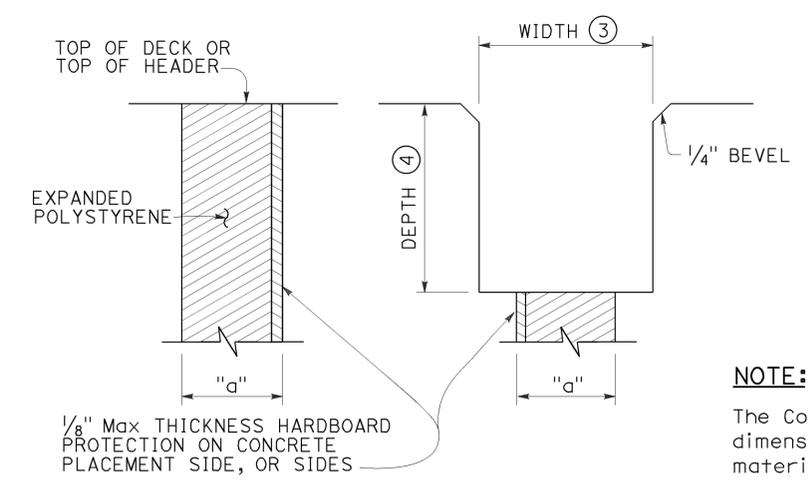


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK

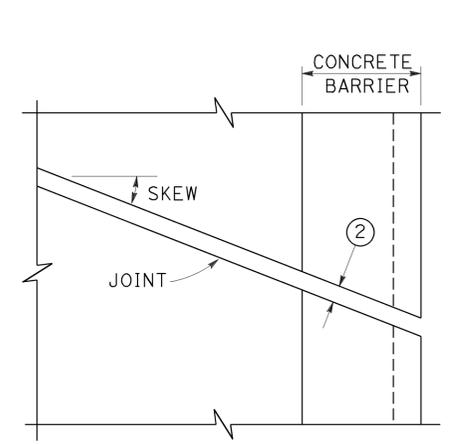


CONCRETE BARRIER



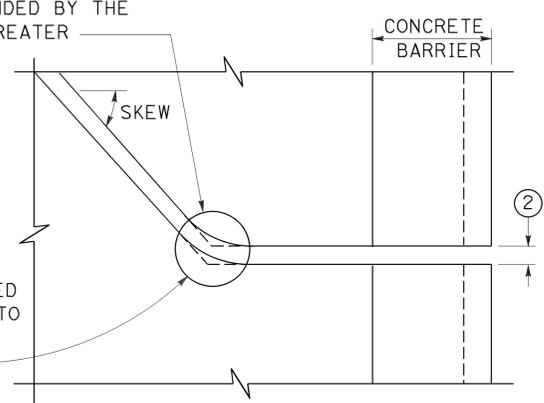
FORMING DETAIL SAWCUT DETAIL

JOINT SEALS DETAILS



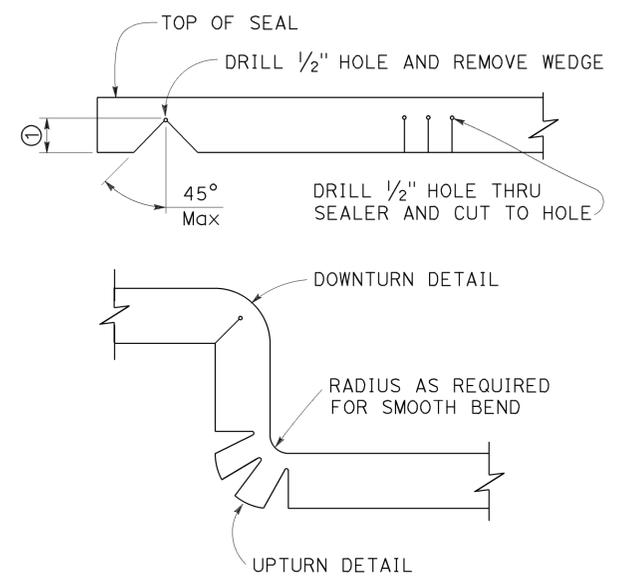
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ RADIUS TO BE 4 TIMES UNCOMPRESSED WIDTH OF SEAL OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS GREATER



PLAN OF JOINT (SKEW > 20°)

IN LIEU OF SAW CUTTING, THIS AREA MAY BE BLOCKED OUT AND RECONSTRUCTED TO MATCH SAW CUTTING ON BOTH SIDES.

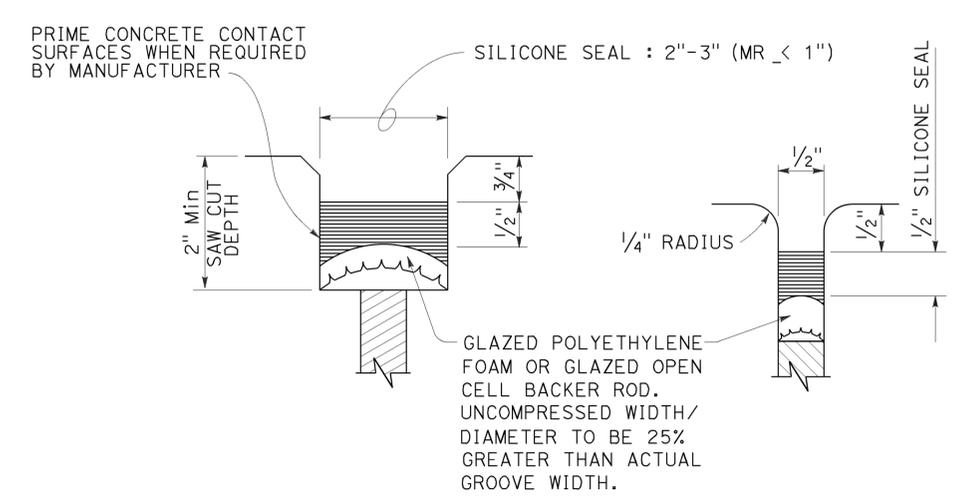


DETAIL A

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

DIMENSIONS "a" OF JOINT REQUIRED

MOVEMENT RATING (MR) (5)	BRIDGE TYPE	"a" DIMENSION		
		DECK CONCRETE PLACED		
		WINTER	FALL-SPRING	SUMMER
2"	ALL EXCEPT CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	ALL EXCEPT CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	ALL EXCEPT CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	ALL EXCEPT CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

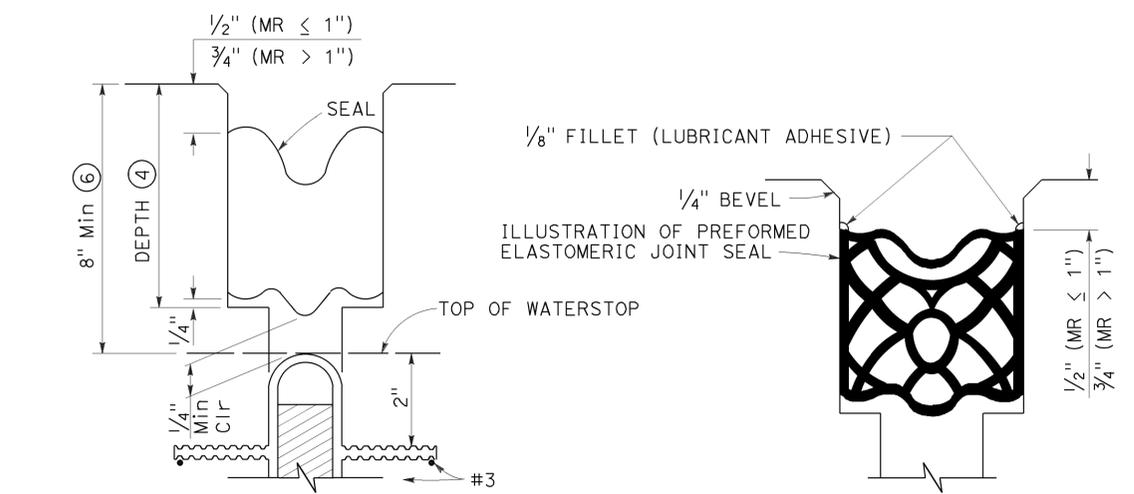


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

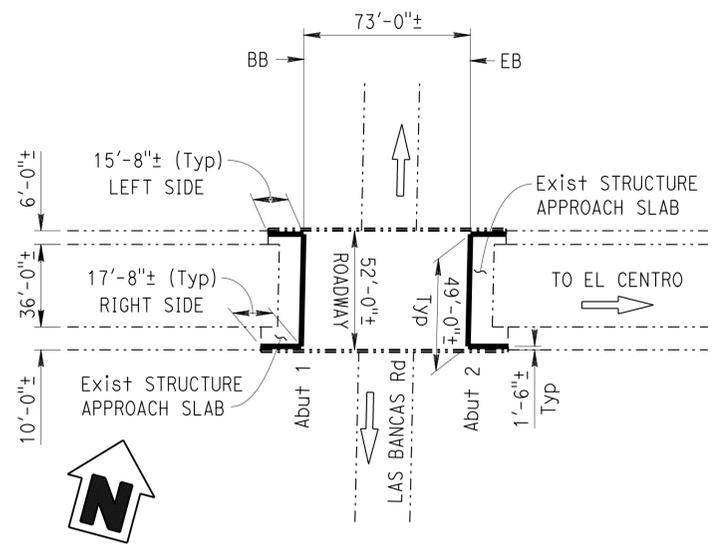
Movement Rating ≤ 2"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")

NO SCALE
 RSP B6-21 DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 20, 2011 - PAGE 283 OF THE STANDARD PLANS BOOK DATED 2010.

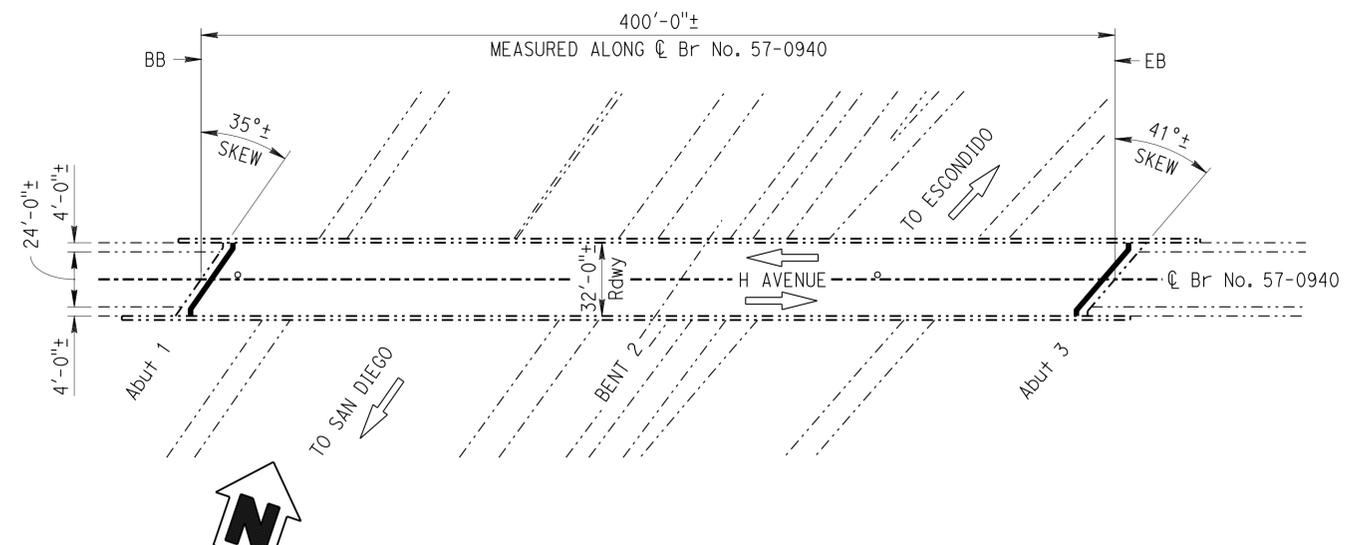
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	30	45

Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



LAS BANCAS ROAD UNDERCROSSING

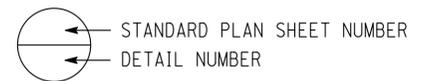
Br No. 57-0691R, ROUTE 8, PM R40.84
1" = 40'



H AVENUE OVERCROSSING

Br No. 57-0940, ROUTE 15, PM M11.46
1" = 40'

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



NOTES: (APPLY TO THIS SHEET ONLY)

① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.

▬ Indicates limits of clean expansion joint and place joint seal. For details see "JOINT SEAL DETAILS" sheet.

LAS BANCAS ROAD UNDERCROSSING (57-0691R)

H AVENUE OVERCROSSING (57-0940)

S15&S163 CONNECTOR SEPARATION (57-0961F)

QUANTITIES

CLEAN EXPANSION JOINT	166 LF
JOINT SEAL (MR 1/2")	166 LF

QUANTITIES

CLEAN EXPANSION JOINT	84 LF
BONDED JOINT SEAL (MR 2 1/2")	84 LF

QUANTITIES

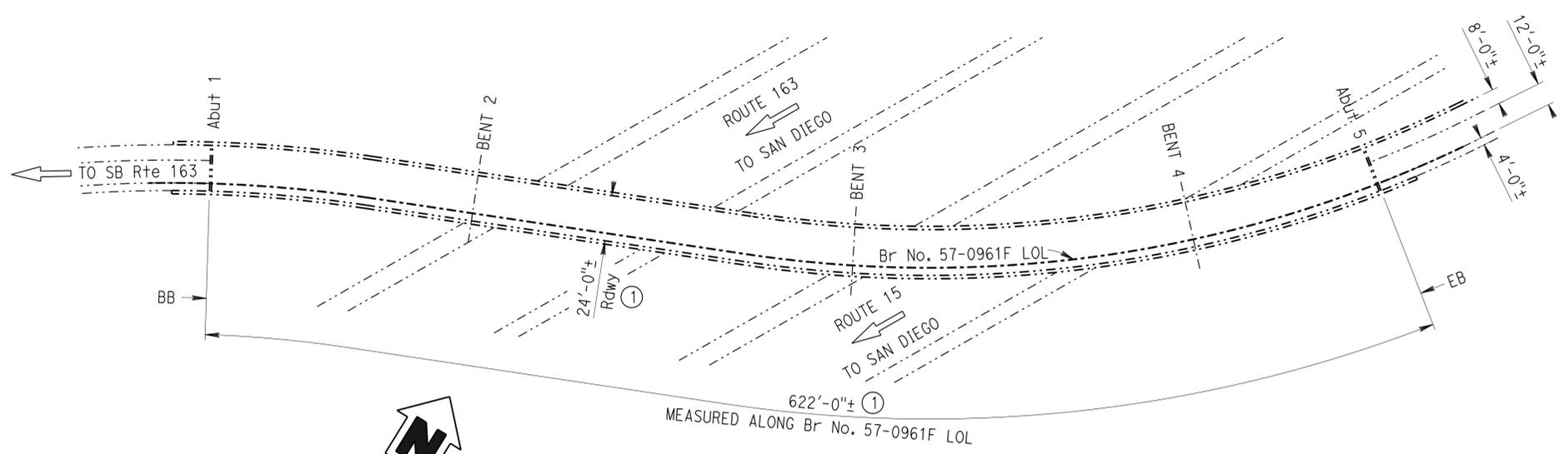
PREPARE CONCRETE BRIDGE DECK SURFACE	14,930 SQFT
TREAT BRIDGE DECK	14,930 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	167 GAL

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN No. 1
2	GENERAL PLAN No. 2
3	GENERAL PLAN No. 3
4	GENERAL PLAN No. 4
5	GENERAL PLAN No. 5
6	GENERAL PLAN No. 6
7	GENERAL PLAN No. 7
8	GENERAL PLAN No. 8
9	GENERAL PLAN No. 9
10	GENERAL PLAN No. 10
11	GENERAL PLAN No. 11
12	MISCELLANEOUS DETAILS No. 1
13	MISCELLANEOUS DETAILS No. 2
14	JOINT SEAL DETAILS
15	STRUCTURE APPROACH TYPE R (30D)
16	STRIP JOINT SEAL ASSEMBLY MAXIMUM MOVEMENT RATING = 4"

STANDARD PLANS DATED 2010

SHEET No.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
RSP P10	CONCRETE PAVEMENT - DOWEL BAR DETAILS



S15&S163 CONNECTOR SEPARATION

Br No. 57-0961F, ROUTE 15, PM M11.97
1" = 40'

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

 DESIGN ENGINEER 3-22-16	DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE No.	VARIOUS	
	DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA	LAYOUT	BY G.F. BIDWELL		CHECKED FRANZ ESPINOZA	POST MILE	VARIES
	QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA	SPECIFICATIONS	BY V. RENGANATHAN		CHECKED V. RENGANATHAN	PLANS AND SPECS COMPARED	

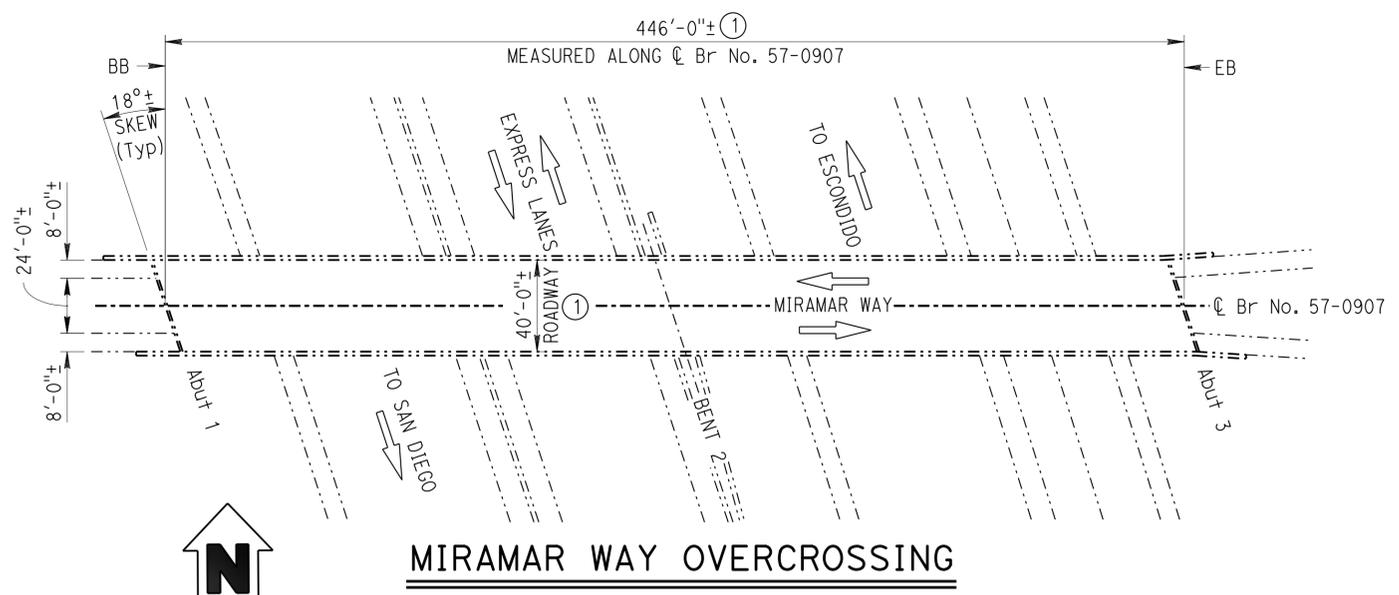
ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES

TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS

GENERAL PLAN No. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	31	45

Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
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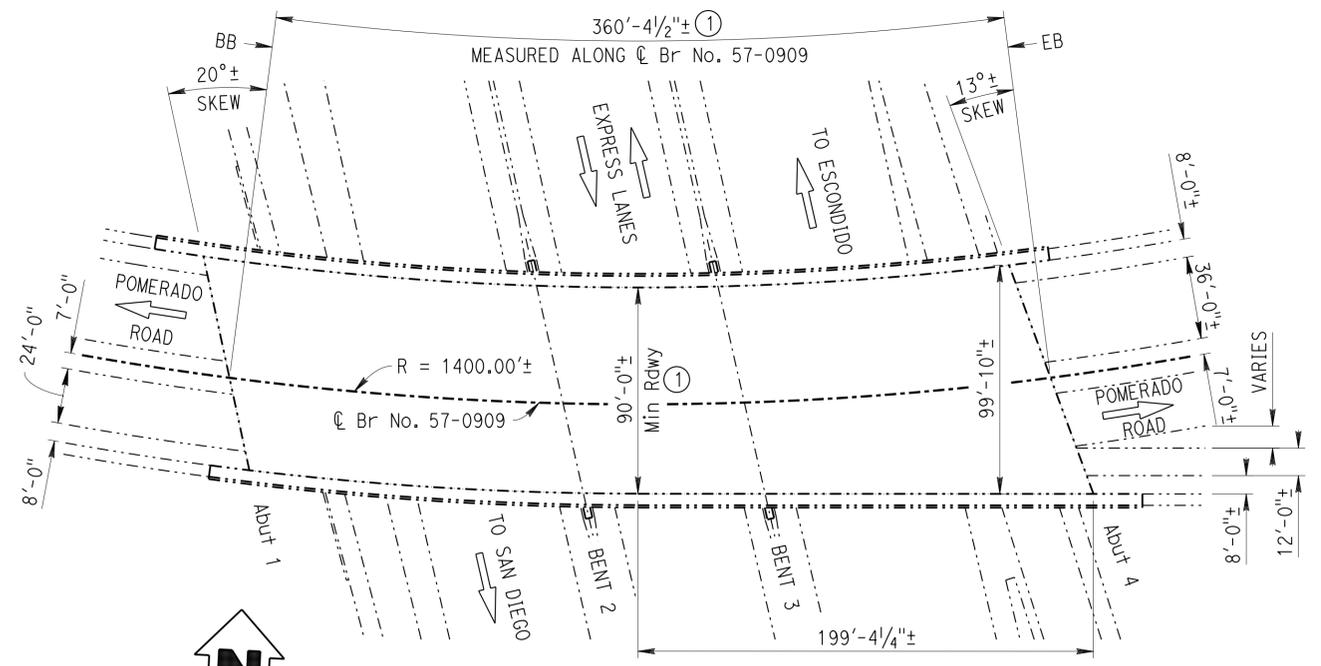


MIRAMAR WAY OVERCROSSING

Br No. 57-0907, ROUTE 15, PM M13.33
 1" = 40'
 MIRAMAR WAY OVERCROSSING (57-0907)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	17,840	SQFT
TREAT BRIDGE DECK	17,840	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	199	GAL



POMERADO ROAD OVERCROSSING

Br No. 57-0909, ROUTE 15, PM M14.29
 1" = 40'

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

POMERADO ROAD OVERCROSSING (57-0909)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	33,420	SQFT
TREAT BRIDGE DECK	33,420	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	372	GAL

BERNARDO CENTER DRIVE UNDERCROSSING (57-1118L)

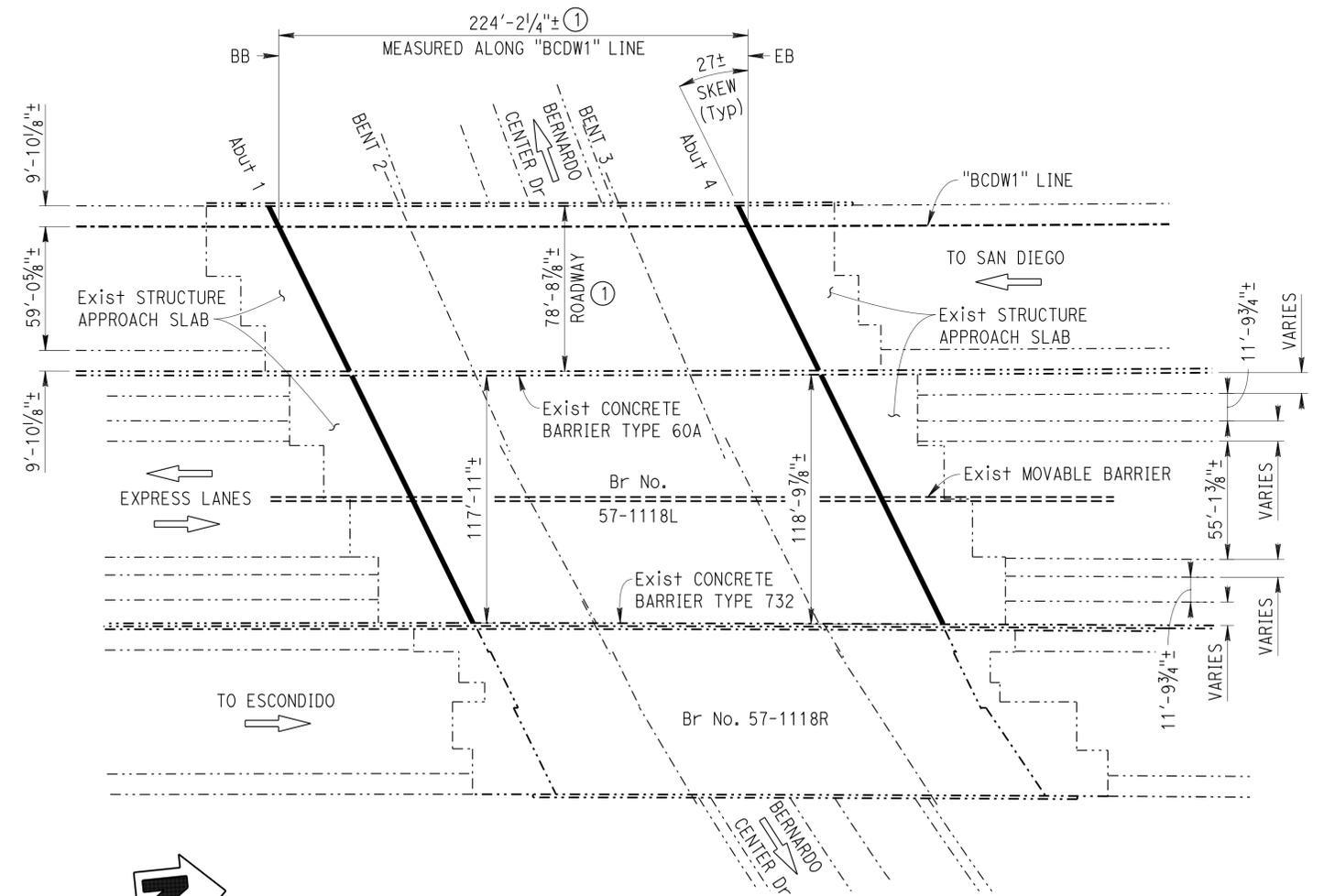
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	17,650	SQFT
TREAT BRIDGE DECK	17,650	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	197	GAL
CLEAN EXPANSION JOINT	445	LF
JOINT SEAL (MR 1")	445	LF

NOTES: (APPLY TO THIS SHEET ONLY)

① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.

— Indicates limits of clean expansion joint and place joint seal. For details see "JOINT SEAL DETAILS" sheet.



BERNARDO CENTER DRIVE UNDERCROSSING

Br No. 57-1118L, ROUTE 15, PM M22.94
 1" = 40'

Michael J. Lee 3-22-16
 DESIGN ENGINEER

DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA	LAYOUT	BY G.F. BIDWELL
QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA	SPECIFICATIONS	BY V. RENGANATHAN

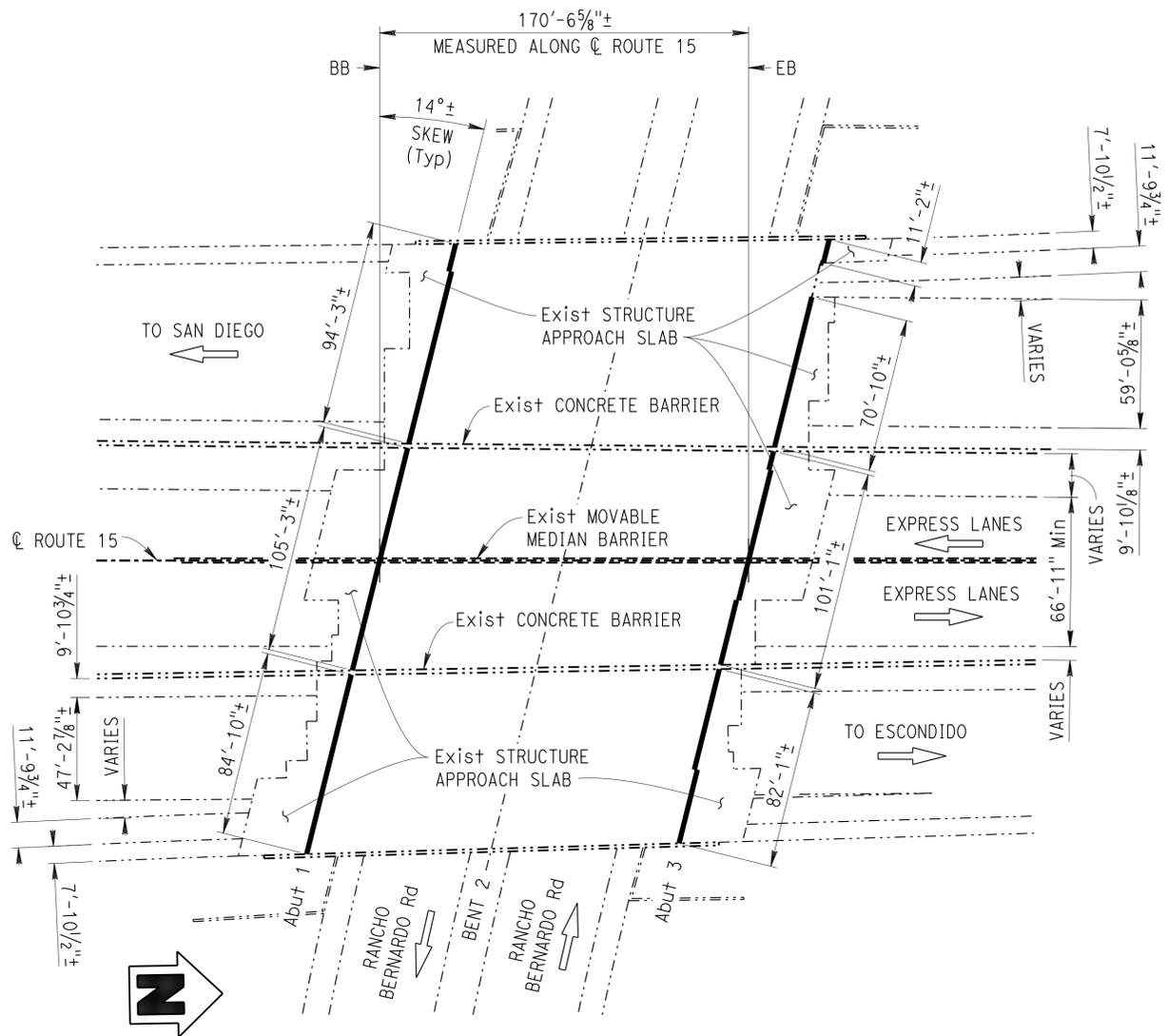
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES
 TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS
 GENERAL PLAN No. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	32	45

Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



RANCHO BERNARDO ROAD UNDERCROSSING
 Br No. 57-0578, ROUTE 15, PM M23.69
 1" = 40'

RANCHO BERNARDO ROAD UNDERCROSSING (57-0578)

QUANTITIES

CLEAN EXPANSION JOINT	553 LF
JOINT SEAL (MR 1")	553 LF

WASHINGTON AVENUE OVERHEAD (57-0812L)

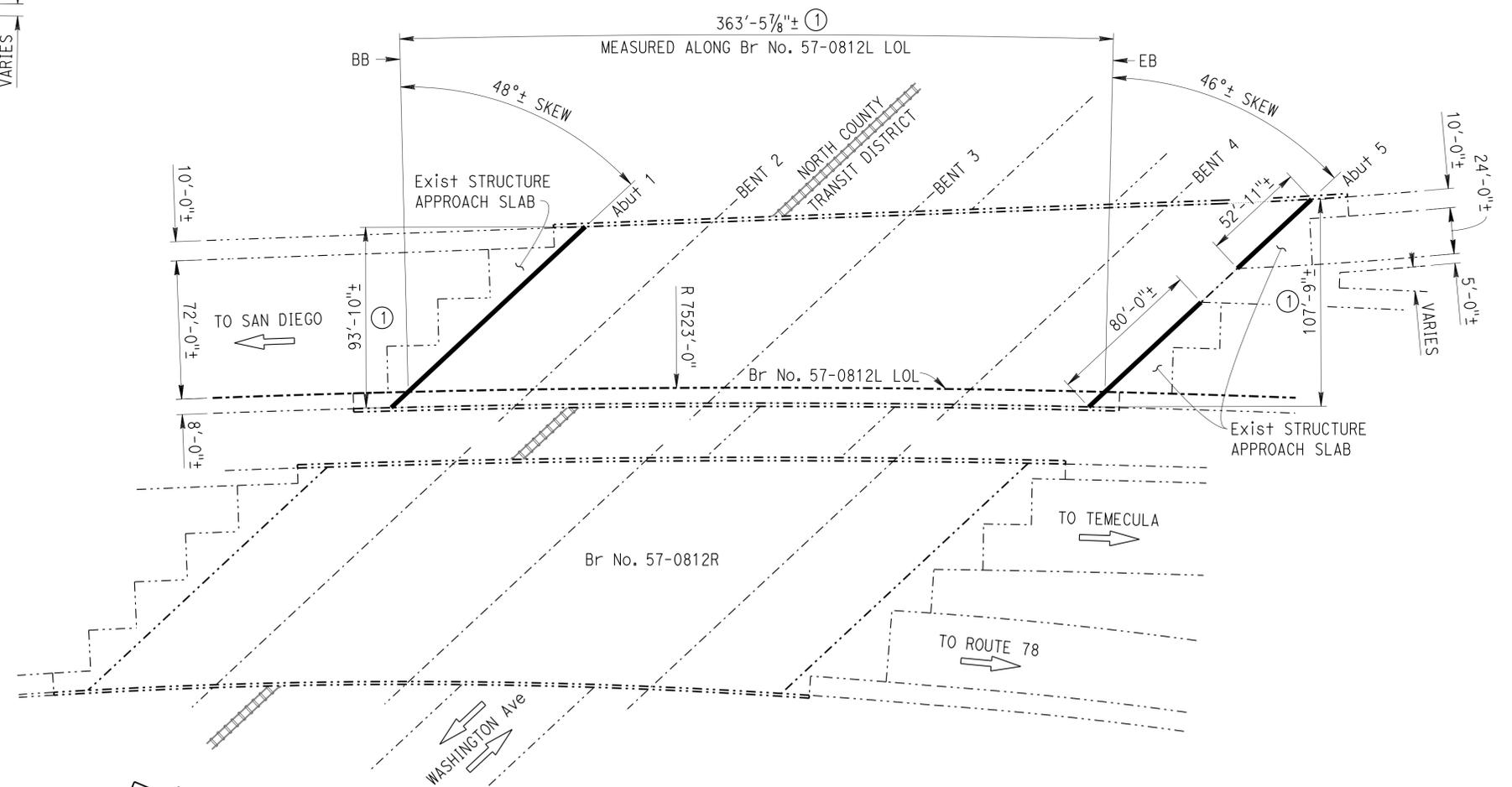
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	36,690 SQFT
TREAT BRIDGE DECK	36,690 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	409 GAL
CLEAN EXPANSION JOINT	274 LF
BONDED JOINT SEAL (MR 2")	274 LF

NOTES: (APPLY TO THIS SHEET ONLY)

① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.

— Indicates limits of clean expansion joint and place joint seal. For details see "JOINT SEAL DETAILS" sheet.



WASHINGTON AVENUE OVERHEAD
 Br No. 57-0812L, ROUTE 15, PM R31.17
 1" = 40'

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

Michael J. Lee 3-22-16
 DESIGN ENGINEER

DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA	LAYOUT	BY G.F. BIDWELL
QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA	SPECIFICATIONS	BY V. RENGANATHAN

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE No. VARIOUS
 POST MILE VARIOUS

ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES

TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS

GENERAL PLAN No. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	33	45

Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
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MISSION AVENUE UNDERCROSSING (57-0813L/R)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	12,895	SQFT
TREAT BRIDGE DECK	12,895	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	144	GAL
CLEAN EXPANSION JOINT	298	LF
JOINT SEAL (MR 1")	298	LF

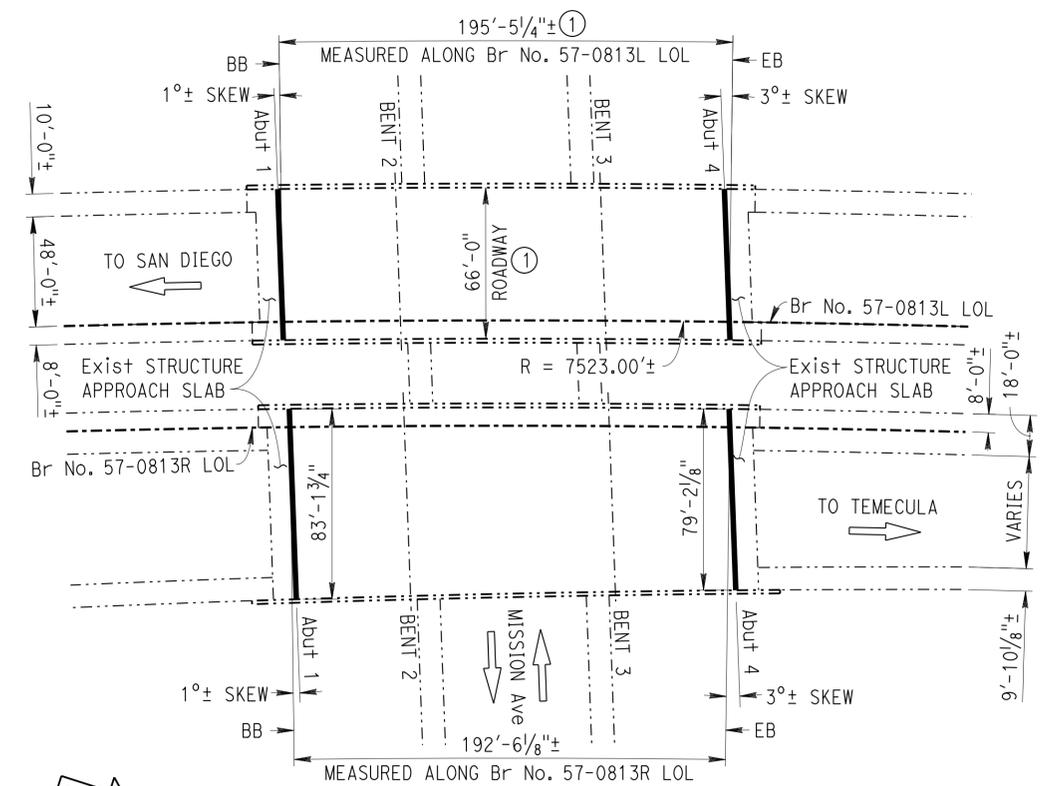
EL NORTE PARKWAY UNDERCROSSING (57-0818L)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	11,450	SQFT
TREAT BRIDGE DECK	11,450	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	128	GAL

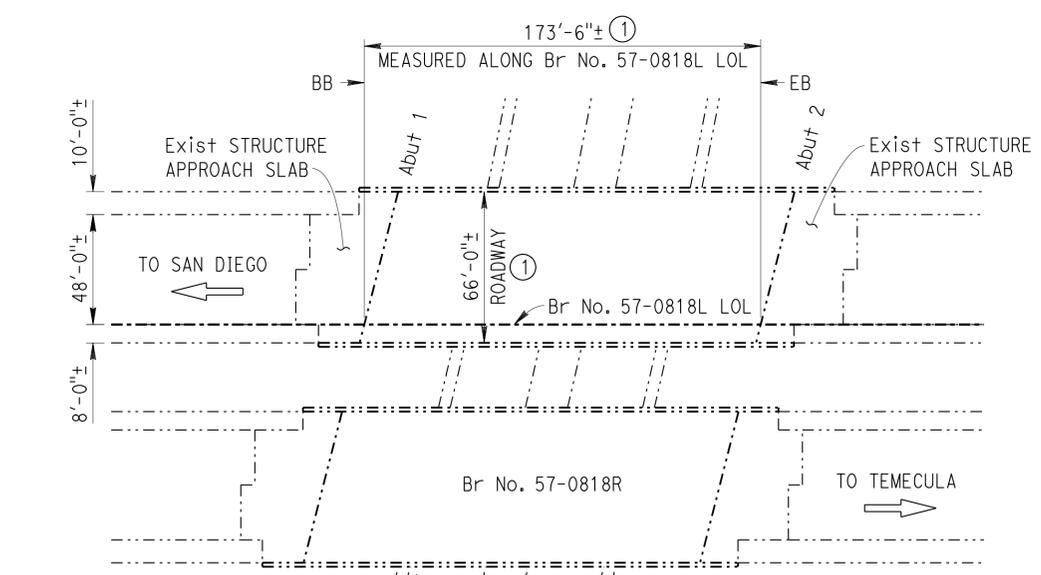
ROUTE 15/78 SEPARATION (57-0814L)

- NOTES: (APPLY TO THIS SHEET ONLY)
- ① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.
 - Indicates limits of clean expansion joint and place joint seal. For details see "JOINT SEAL DETAILS" sheet.
 - ▨ Indicates limits of remove damaged structure approach concrete and place new paving notch extension and Structure Approach Type R (30D). For details see "STRUCTURE APPROACH TYPE R (30D)" sheet.



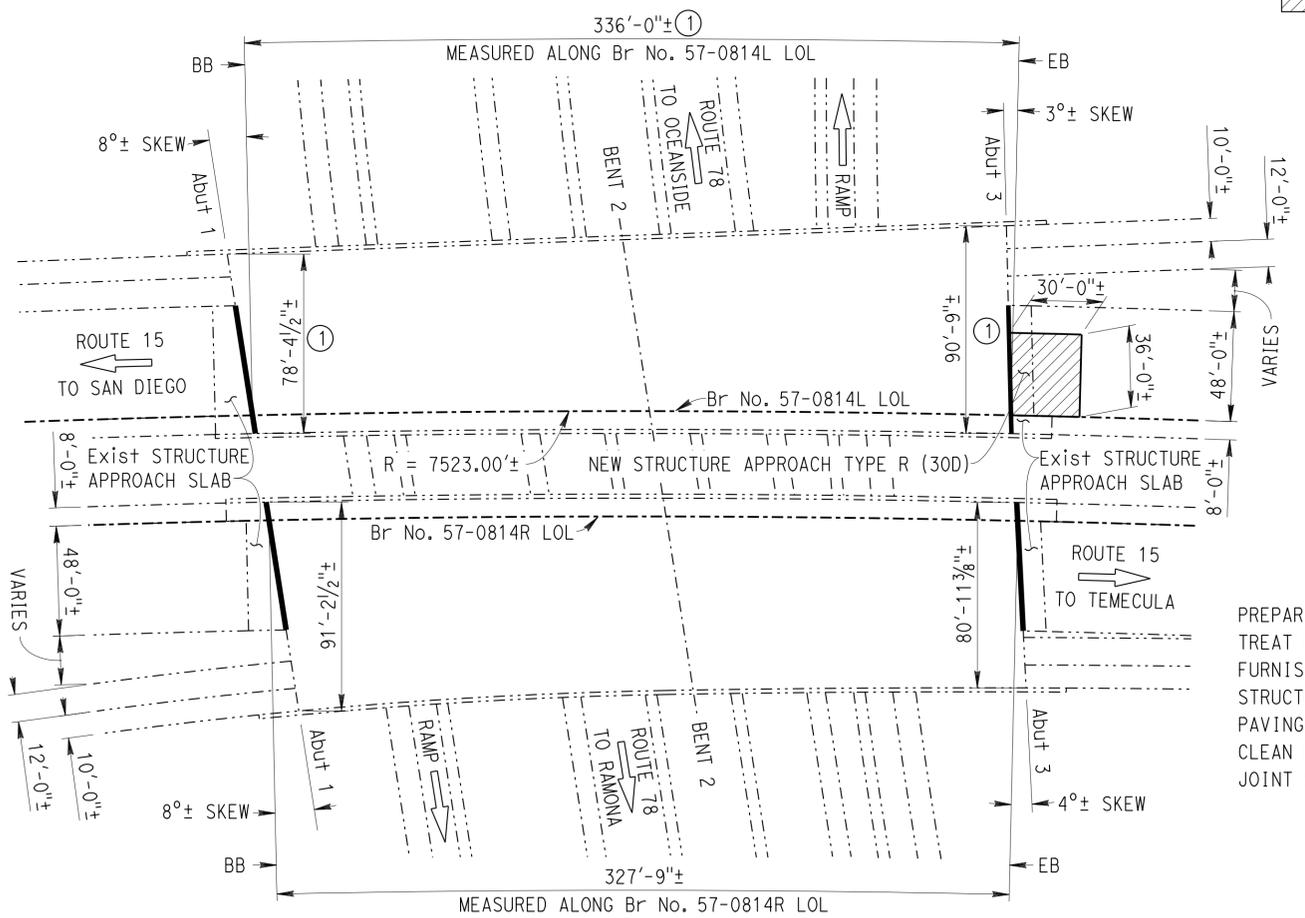
MISSION AVENUE UNDERCROSSING

Br No. 57-0813L/R, ROUTE 15, PM R31.32
1" = 40'



EL NORTE PARKWAY UNDERCROSSING

Br No. 57-0818L, ROUTE 15, PM R32.86
1" = 40'



ROUTE 15/78 SEPARATION

Br No. 57-0814L/R, ROUTE 15, PM R31.48
1" = 40'

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	28,425	SQFT
TREAT BRIDGE DECK	28,425	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	317	GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	60	CY
PAVING NOTCH EXTENSION	27	CF
CLEAN EXPANSION JOINT	78	LF
JOINT SEAL (MR 1 1/2")	114	LF

QUANTITIES

CLEAN EXPANSION JOINT	114	LF
JOINT SEAL (MR 1 1/2")	114	LF

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

Michael J. Lee 3-22-16
DESIGN ENGINEER

DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA	LOAD FACTOR DESIGN
DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA	LAYOUT
QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA	SPECIFICATIONS

LIVE LOADING:	HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
BY	G.F. BIDWELL
CHECKED	FRANZ ESPINOZA
PLANS AND SPECS COMPARED	V. RENGANATHAN

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE No. VARIOUS
POST MILE VARIES

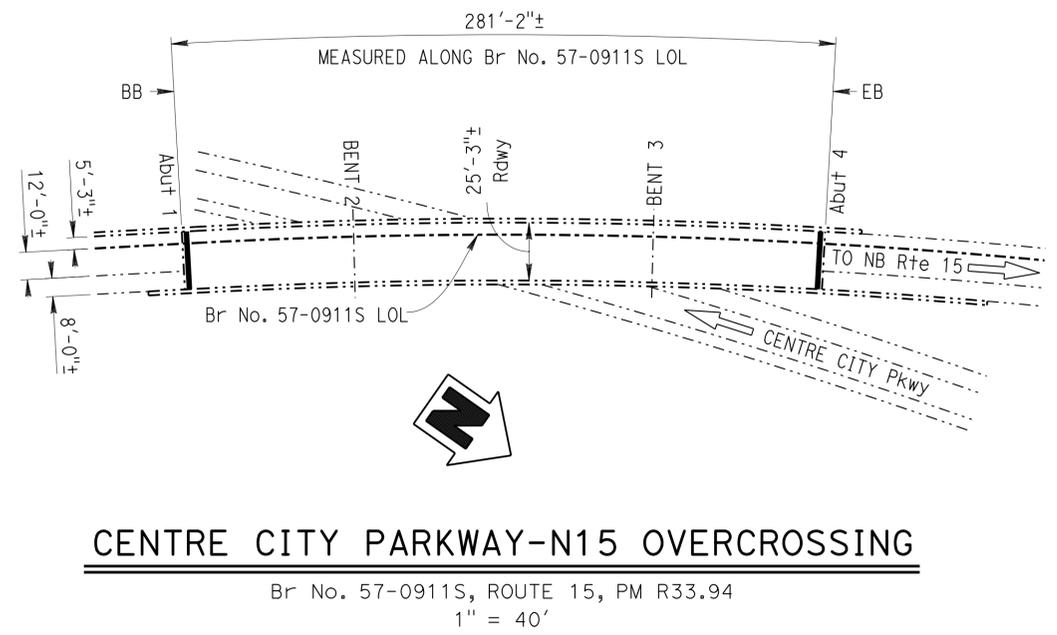
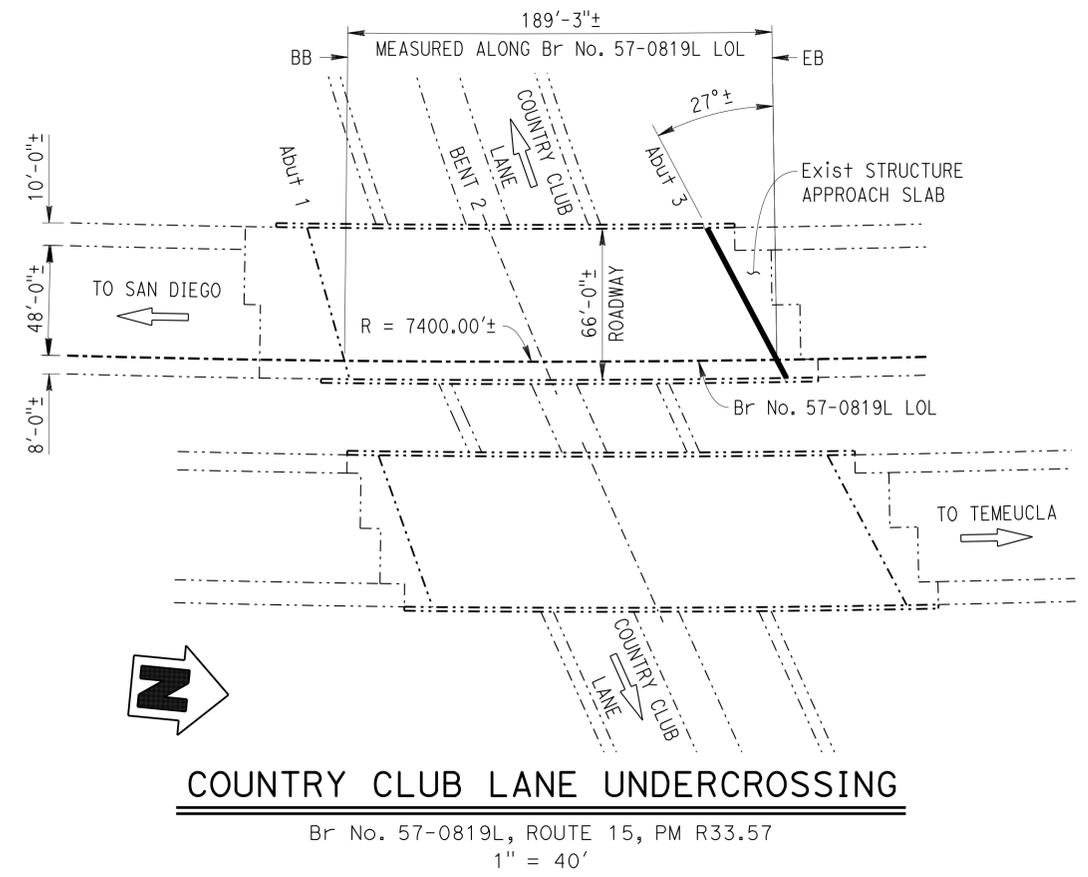
ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES
TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS
GENERAL PLAN No. 4

USERNAME => s127400 DATE PLOTTED => 13-JUN-2016 TIME PLOTTED => 11:02

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	34	45

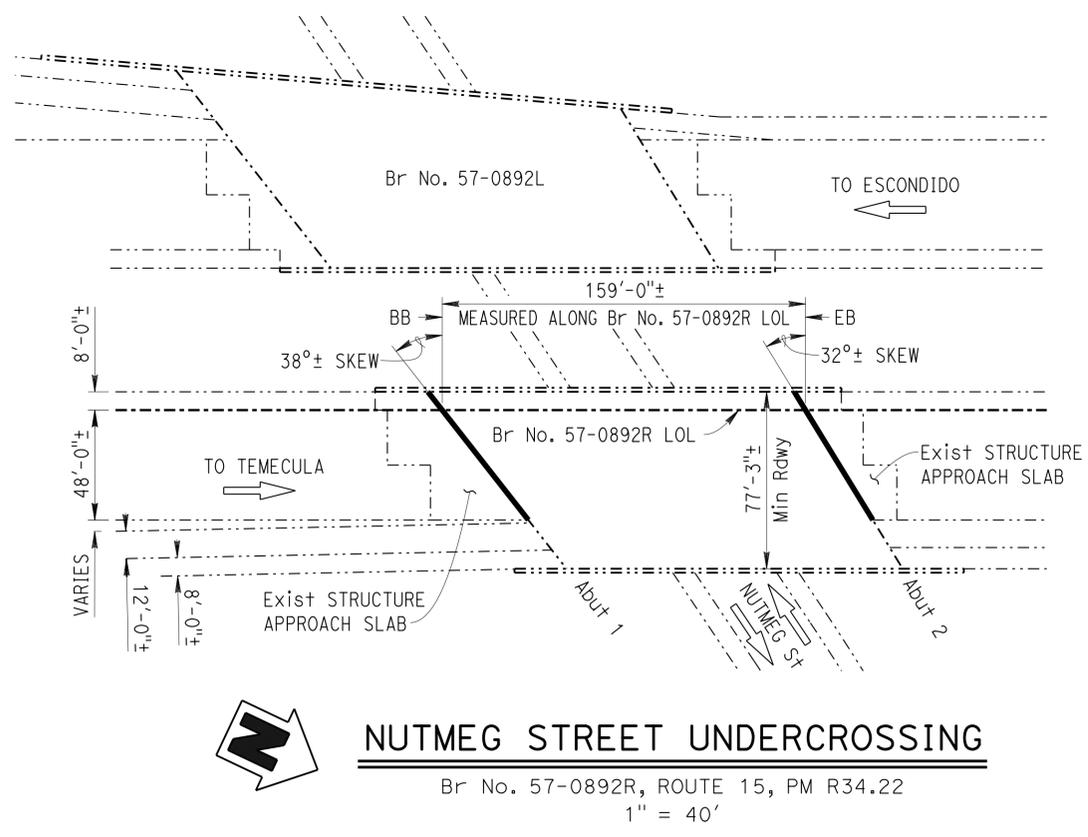
Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 THOMAS J. BOLLA
 No. C 43811
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA



NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of clean expansion joint and place joint seal. For details see "JOINT SEAL DETAILS" sheet.



COUNTRY CLUB LANE UNDERCROSSING (57-0819L)	
QUANTITIES	
CLEAN EXPANSION JOINT	75 LF
BONDED JOINT SEAL (MR 2 1/2")	75 LF

CENTRE CITY PARKWAY-N15 OVERCROSSING (57-0911S)	
QUANTITIES	
CLEAN EXPANSION JOINT	52 LF
JOINT SEAL (MR 2")	52 LF

NUTMEG STREET UNDERCROSSING (57-0892R)	
QUANTITIES	
CLEAN EXPANSION JOINT	140 LF
JOINT SEAL (MR 1")	140 LF

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

3-22-16
 DESIGN ENGINEER

DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA	LAYOUT	BY G.F. BIDWELL
QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA	SPECIFICATIONS	BY V. RENGANATHAN

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

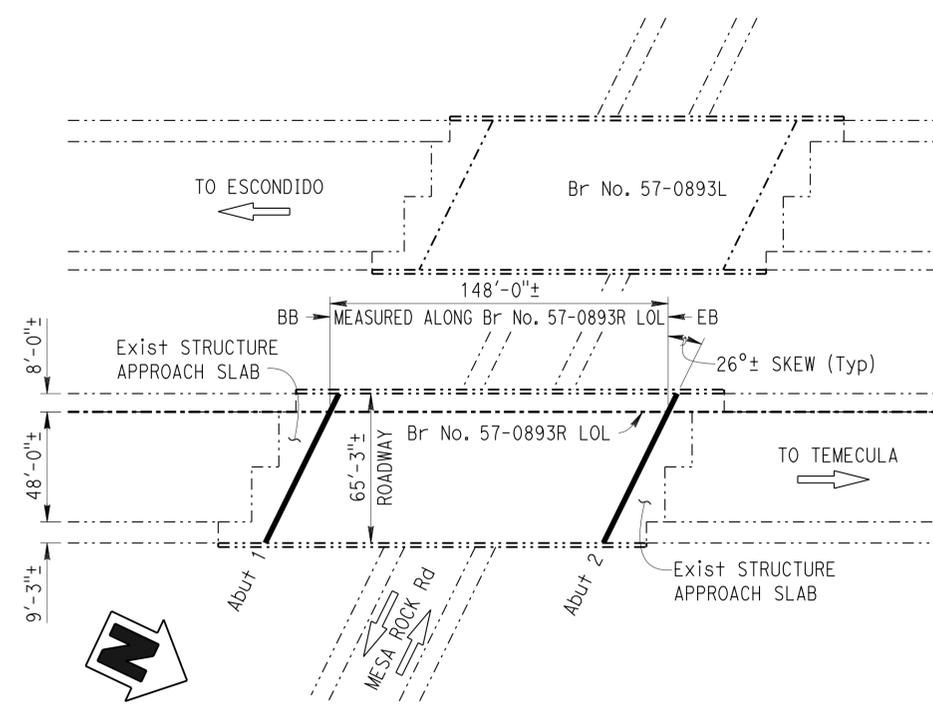
DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES
TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS
GENERAL PLAN No. 5

USERNAME => s127400 DATE PLOTTED => 13-JUN-2016 TIME PLOTTED => 11:02

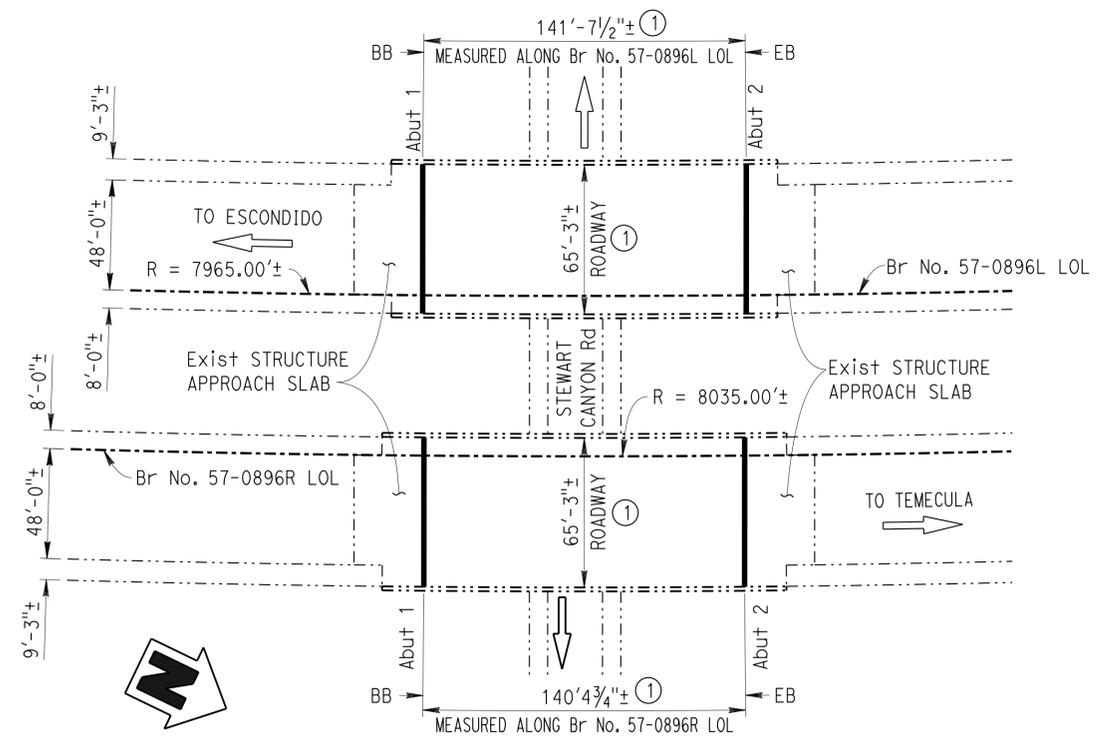
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	35	45

Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
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MESA ROCK ROAD UNDERCROSSING

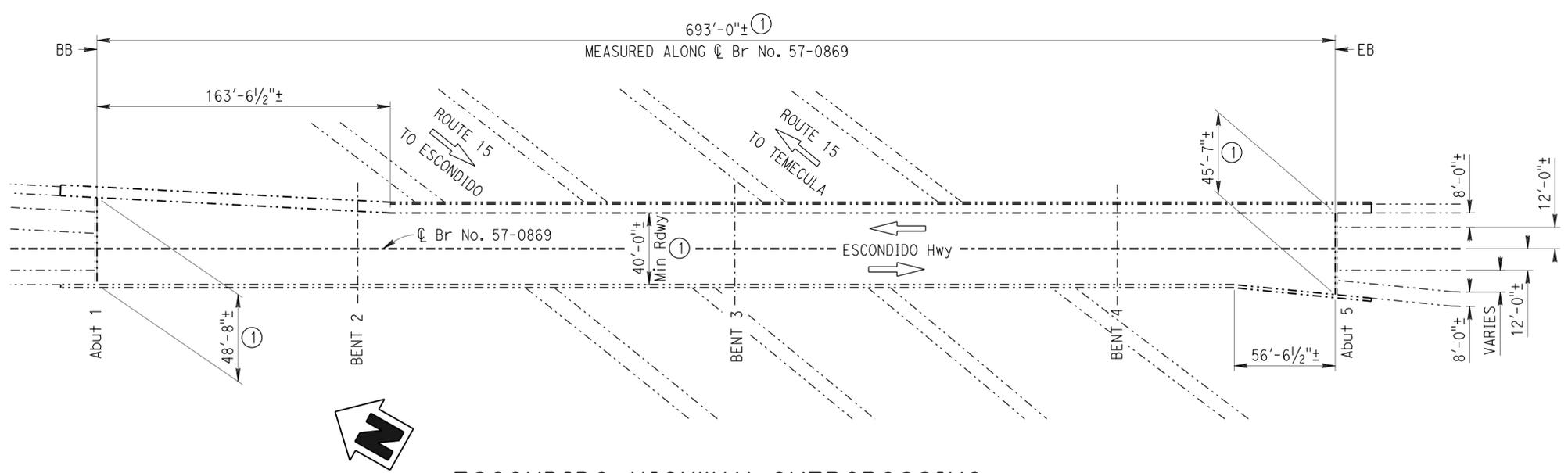
Br No. 57-0893R, ROUTE 15, PM R34.89
1" = 40'



STEWART CANYON ROAD UNDERCROSSING

Br No. 57-0896L/R, ROUTE 15, PM R48.85
1" = 40'

- NOTES: (APPLY TO THIS SHEET ONLY)
- ① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.
 - Indicates limits of clean expansion joint and place joint seal. For details see "JOINT SEAL DETAILS" sheet.



ESCONDIDO HIGHWAY OVERCROSSING

Br No. 57-0869, ROUTE 15, PM R43.28
1" = 40'

MESA ROCK ROAD UNDERCROSSING (57-0893R)

QUANTITIES

CLEAN EXPANSION JOINT	146	LF
JOINT SEAL (MR 1")	146	LF

ESCONDIDO HIGHWAY OVERCROSSING (57-0869)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	28,585	SQFT
TREAT BRIDGE DECK	28,585	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	318	GAL

STEWART CANYON ROAD UNDERCROSSING (57-0896L/R)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	18,480	SQFT
TREAT BRIDGE DECK	18,480	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	206	GAL
CLEAN EXPANSION JOINT	264	LF
JOINT SEAL (MR 1/2")	264	LF

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

Michael J. Lee 3-22-16
DESIGN ENGINEER

DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA	LAYOUT	BY G.F. BIDWELL
QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA	SPECIFICATIONS	BY V. RENGANATHAN

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE No. VARIOUS
POST MILE VARIES

ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES

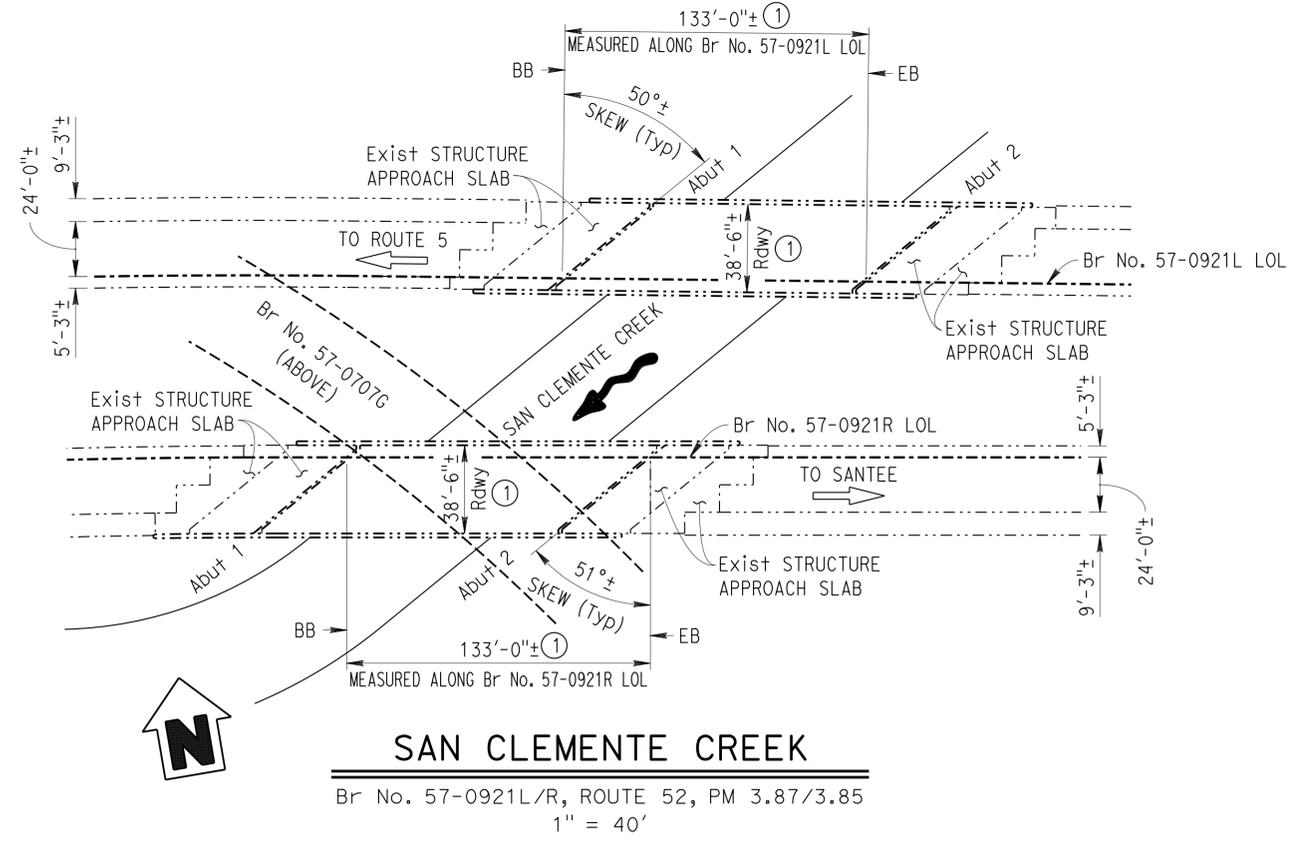
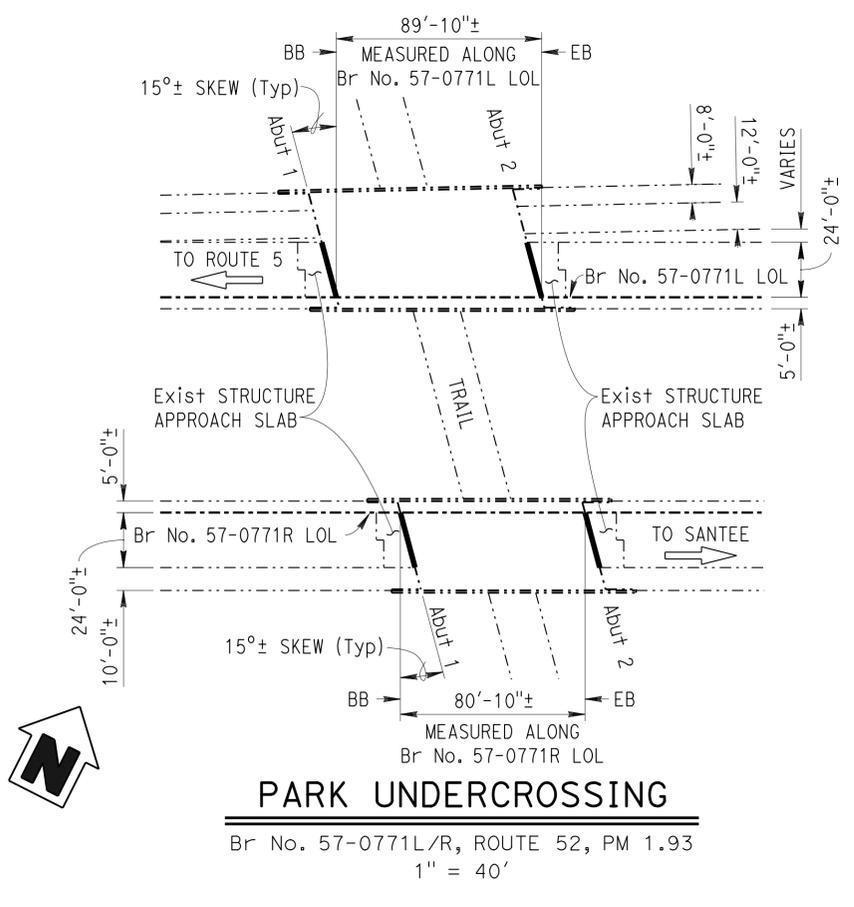
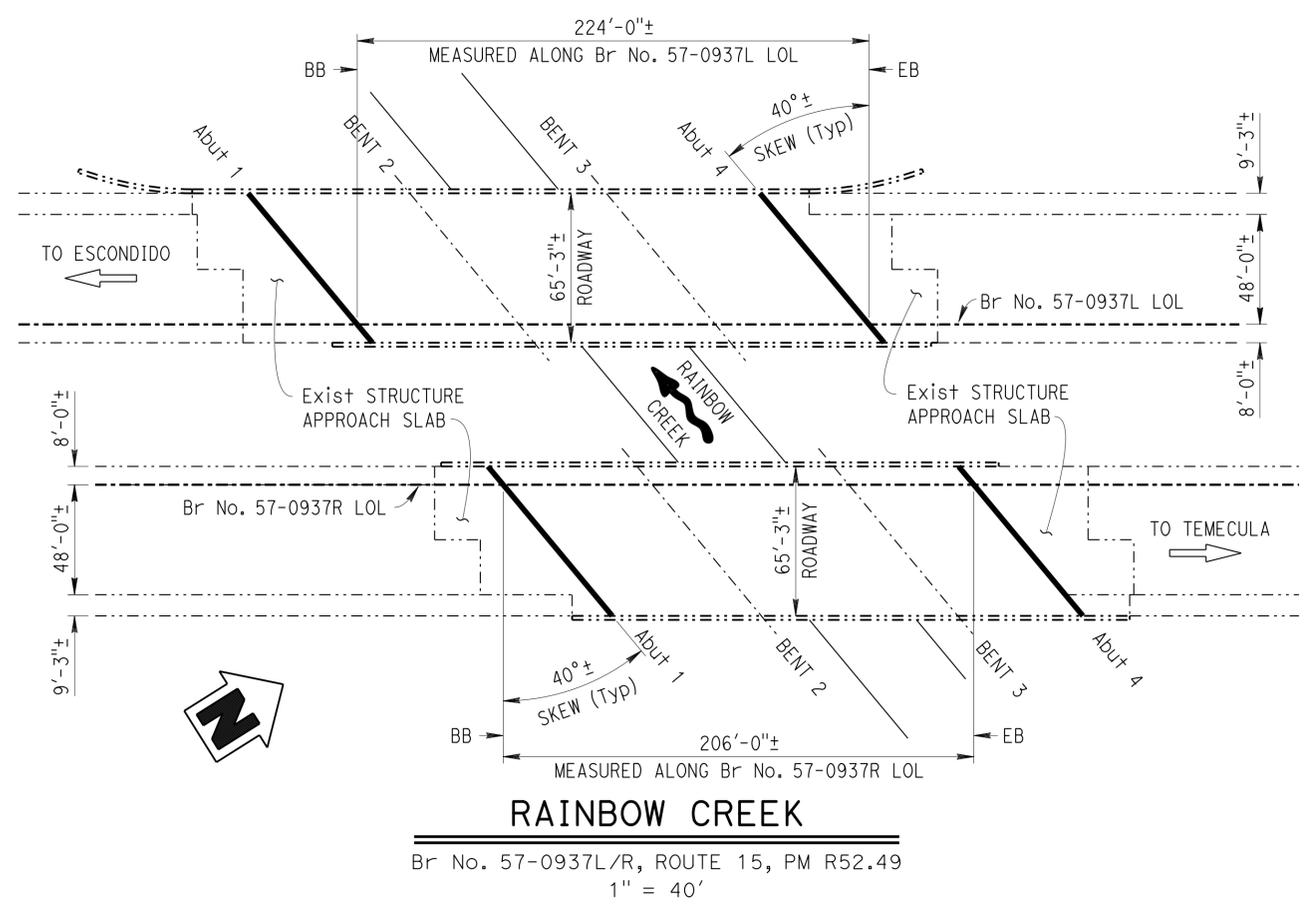
TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS

GENERAL PLAN No. 6

USERNAME => s127400 DATE PLOTTED => 13-JUN-2016 TIME PLOTTED => 11:02

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	36	45

Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
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RAINBOW CREEK (57-0937L/R)	
QUANTITIES	
CLEAN EXPANSION JOINT	344 LF
JOINT SEAL (MR 1")	344 LF
PARK UNDERCROSSING (57-0771L/R)	
QUANTITIES	
CLEAN EXPANSION JOINT	100 LF
JOINT SEAL (MR 1/2")	100 LF
SAN CLEMENTE CREEK (57-0921L/R)	
QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	10,240 SQFT
TREAT BRIDGE DECK	10,240 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	114 GAL

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

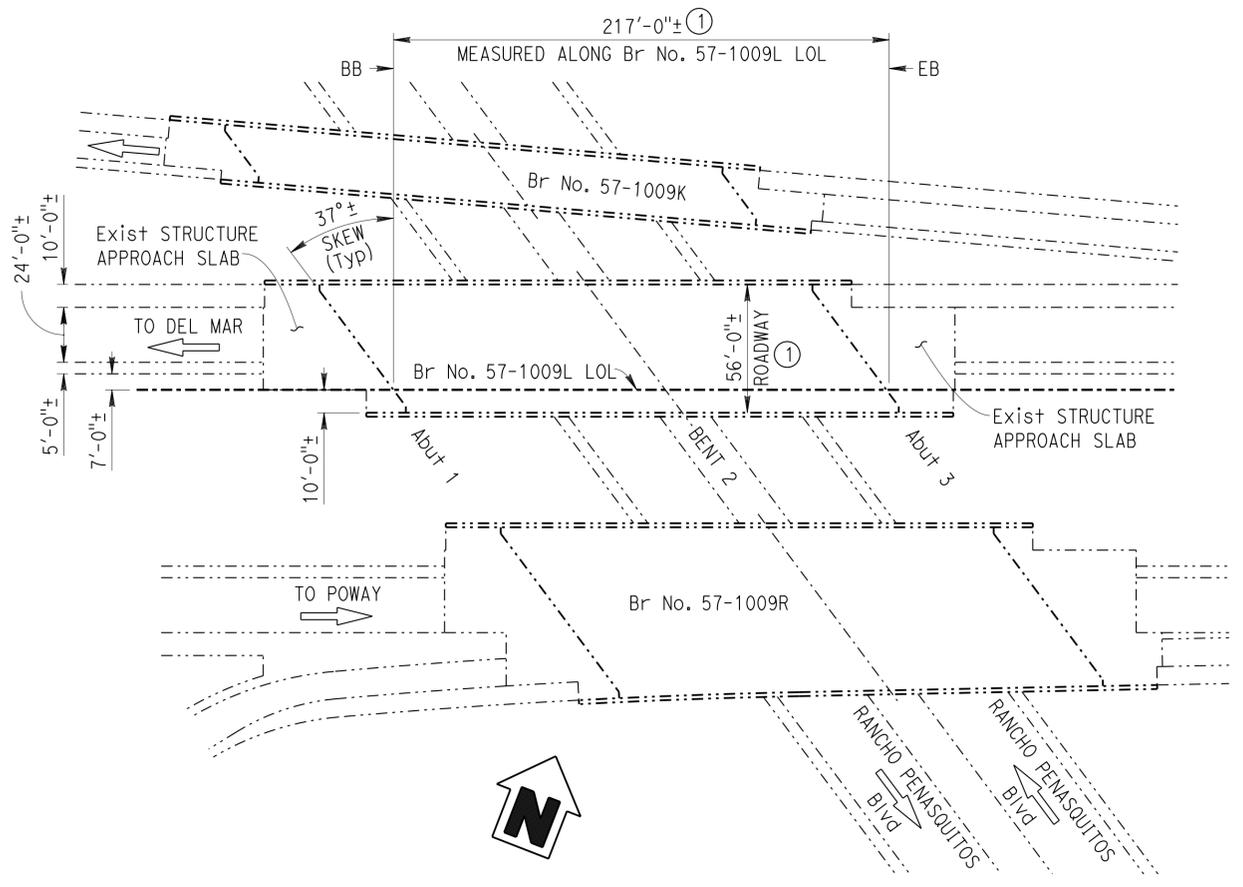
DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA	LAYOUT	BY G.F. BIDWELL
QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA	SPECIFICATIONS	BY V. RENGANATHAN

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

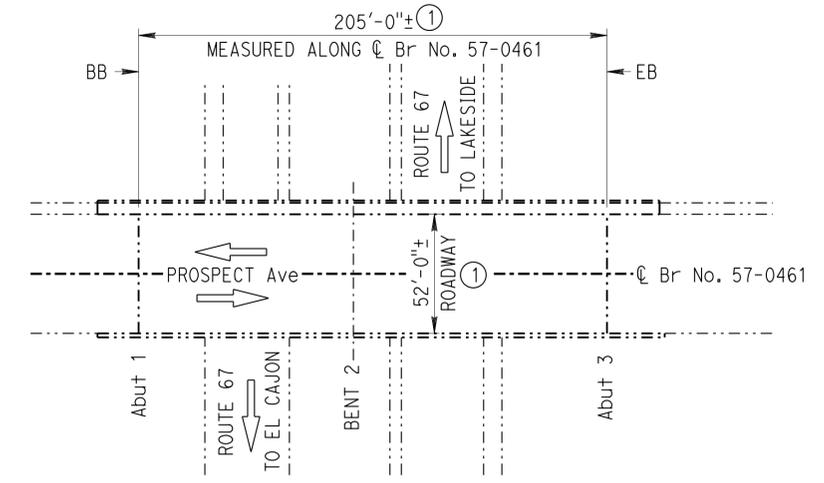
ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES
TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS
GENERAL PLAN No. 7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	37	45

Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
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RANCHO PENASQUITOS BOULEVARD UNDERCROSSING
 Br No. 57-1009L, ROUTE 56, PM 7.80
 1" = 40'



PROSPECT AVENUE OVERCROSSING
 Br No. 57-0461, ROUTE 67, PM R1.94
 1" = 40'

NOTES: (APPLY TO THIS SHEET ONLY)

① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.

RANCHO PENASQUITOS BOULEVARD UNDERCROSSING (57-1009L)

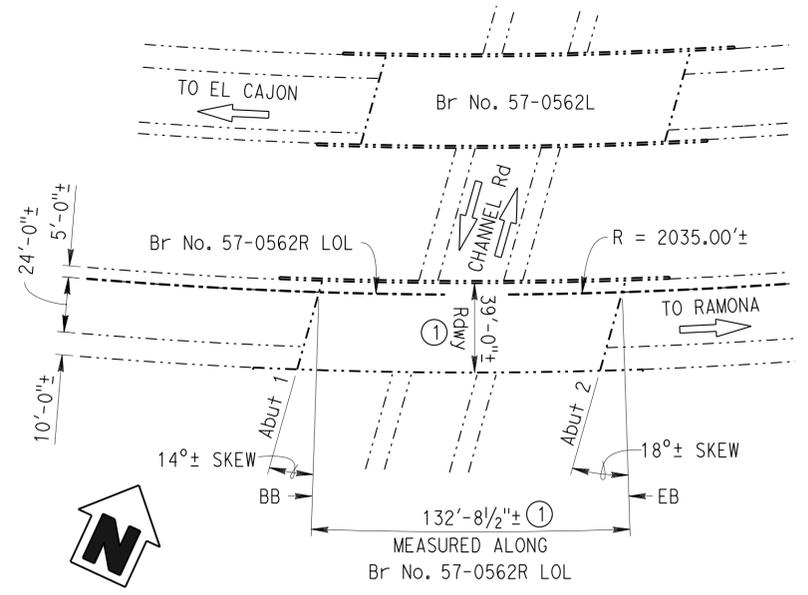
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	12,155	SQFT
TREAT BRIDGE DECK	12,155	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	136	GAL

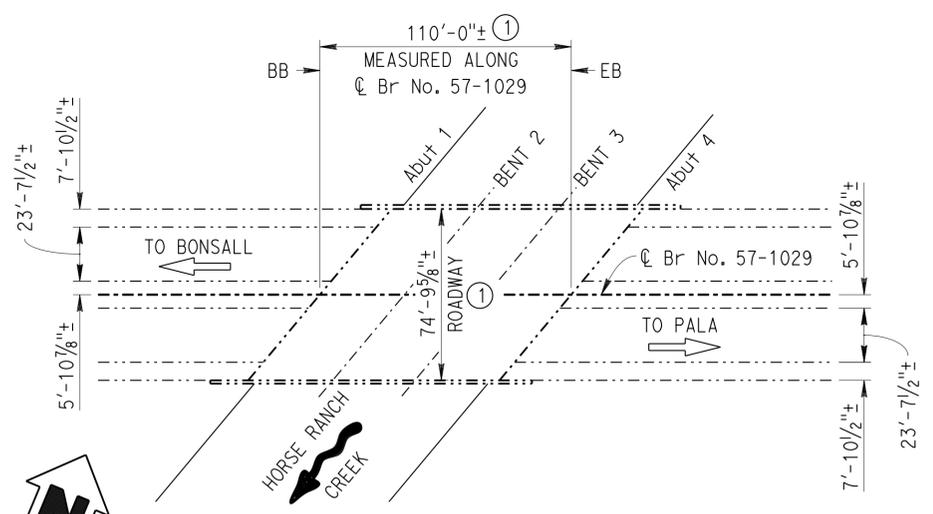
PROSPECT AVENUE OVERCROSSING (57-0461)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	10,660	SQFT
TREAT BRIDGE DECK	10,660	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	119	GAL



CHANNEL ROAD UNDERCROSSING
 Br No. 57-0562R, ROUTE 67, PM R5.19
 1" = 40'



HORSE RANCH CREEK
 Br No. 57-1029, ROUTE 76, PM 17.75
 1" = 40'

CHANNEL ROAD UNDERCROSSING (57-0562R)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,175	SQFT
TREAT BRIDGE DECK	5,175	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	58	GAL

HORSE RANCH CREEK (57-1029)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	8,230	SQFT
TREAT BRIDGE DECK	8,230	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	92	GAL

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

DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA	LAYOUT	BY G.F. BIDWELL
QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA	SPECIFICATIONS	BY V. RENGANATHAN

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE No. VARIOUS
 POST MILE VARIES

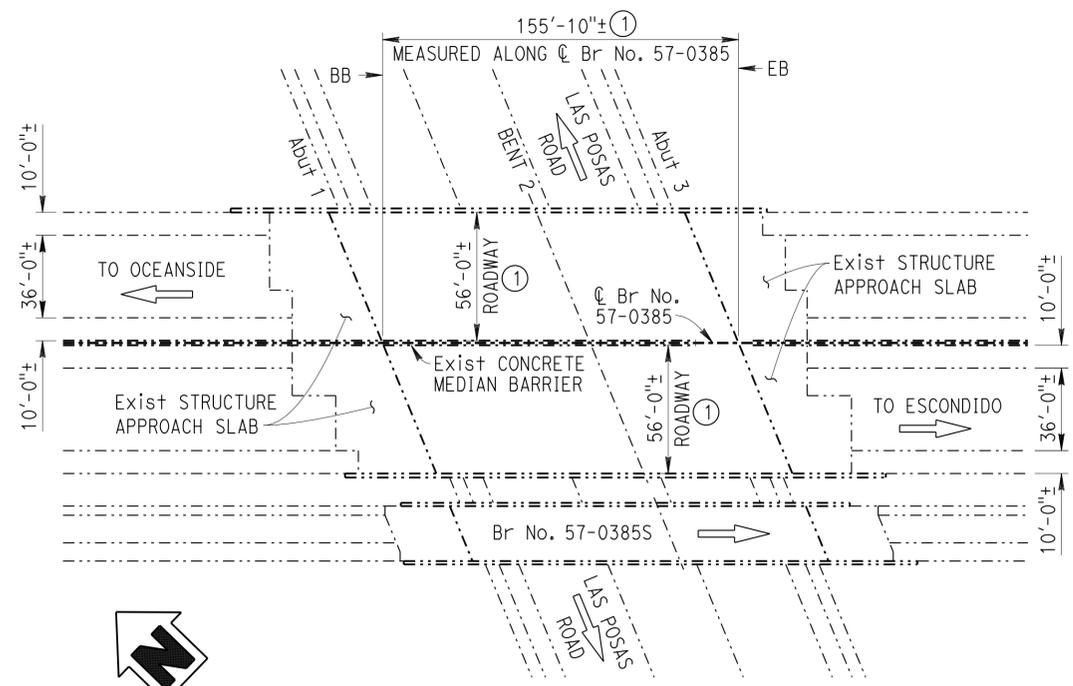
ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES

TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS

GENERAL PLAN No. 8

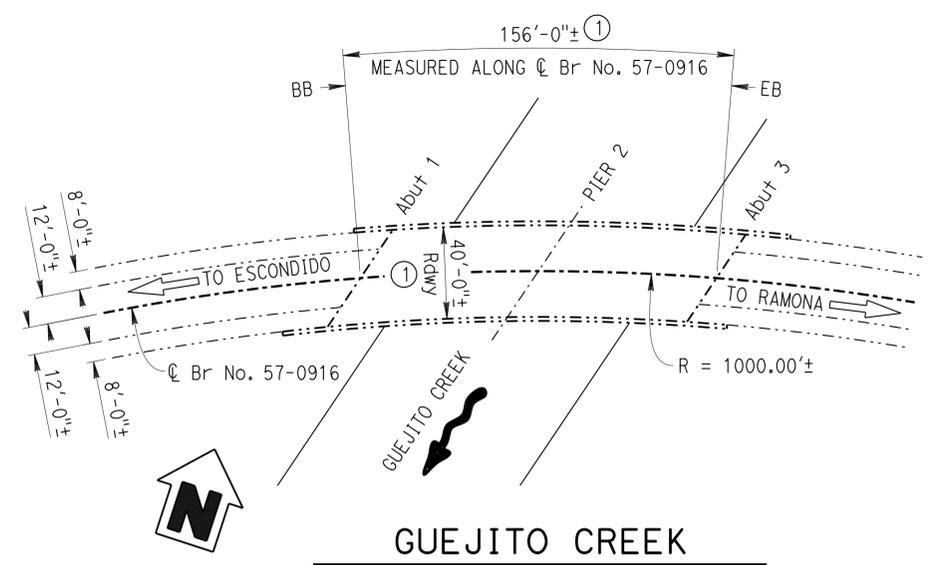
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	38	45

Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
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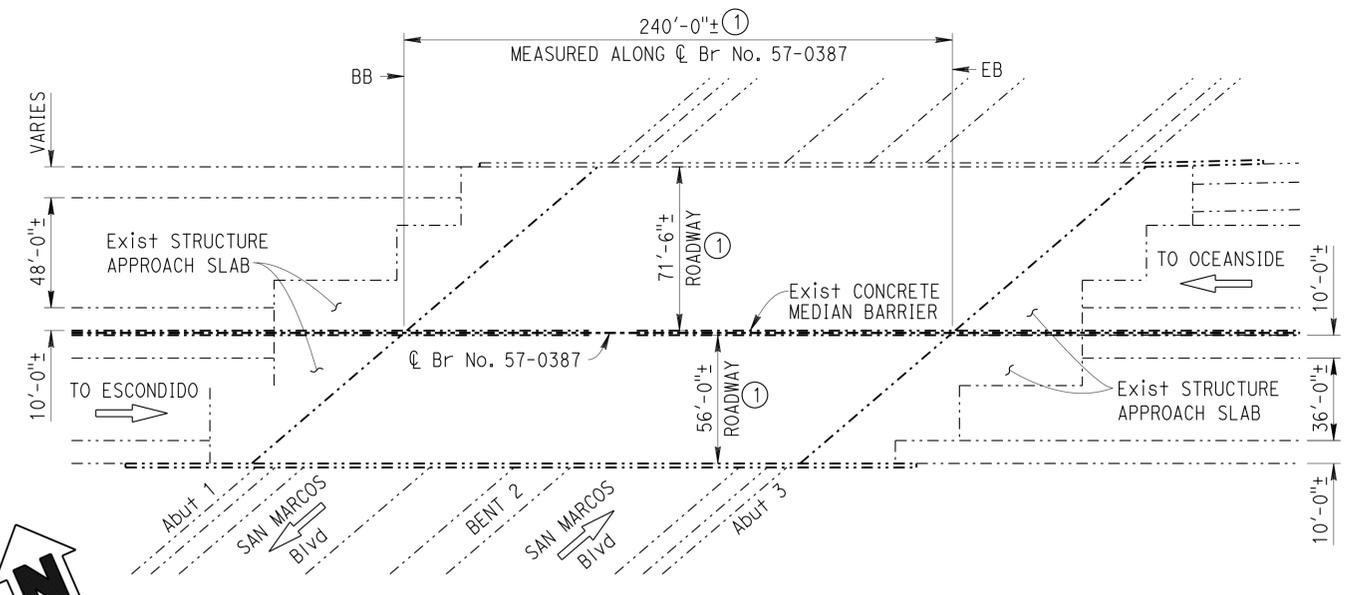
LAS POSAS ROAD UNDERCROSSING

Br No. 57-0385, ROUTE 78, PM 11.18
1" = 40'



GUEJITO CREEK

Br No. 57-0916, ROUTE 78, PM R26.79
1" = 40'



SAN MARCOS BOULEVARD UNDERCROSSING

Br No. 57-0387, ROUTE 78, PM 12.13
1" = 40'

LAS POSAS ROAD UNDERCROSSING (57-0385)

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	17,455 SQFT
TREAT BRIDGE DECK	17,455 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	195 GAL

SAN MARCOS BOULEVARD UNDERCROSSING (57-0387)

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	30,600 SQFT
TREAT BRIDGE DECK	30,600 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	341 GAL

GUEJITO CREEK (57-0916)

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	6,240 SQFT
TREAT BRIDGE DECK	6,240 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	70 GAL

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

Michael J. Lee 3-22-16
DESIGN ENGINEER

DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA	LAYOUT	BY G.F. BIDWELL
QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA	SPECIFICATIONS	BY V. RENGANATHAN

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE No. VARIOUS
POST MILE VARIES

ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES

TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS

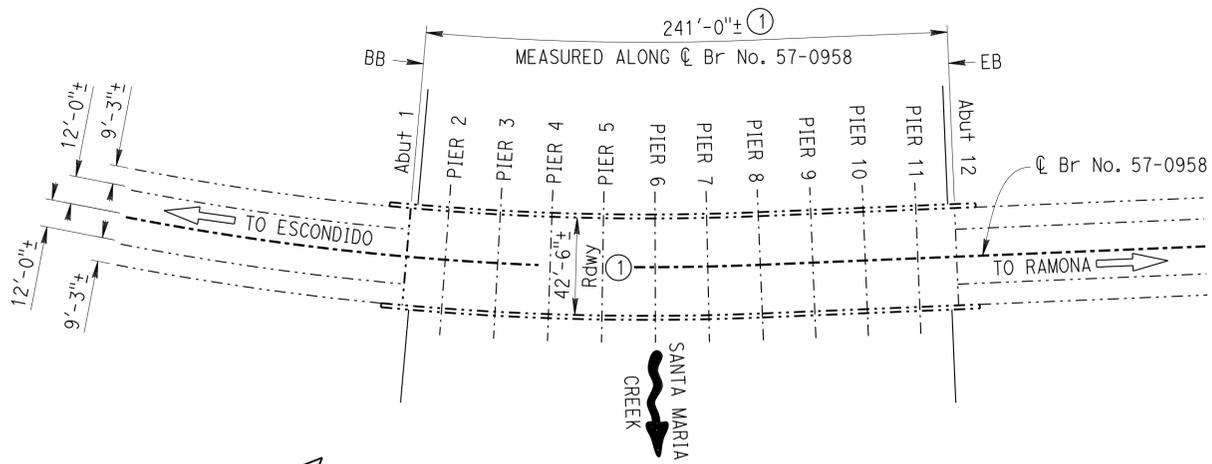
GENERAL PLAN No. 9

USERNAME => s127400 DATE PLOTTED => 13-JUN-2016 TIME PLOTTED => 11:02

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	39	45

Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 THOMAS J. BOLLA
 No. C 43811
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA



SANTA MARIA CREEK
 Br No. 57-0958, ROUTE 78, PM 35.33
 1" = 40'

SANTA MARIA CREEK (57-0958)

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	10,245 SQFT
TREAT BRIDGE DECK	10,245 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	115 GAL

ROUTE 805/52 SEPARATION (57-0685L)

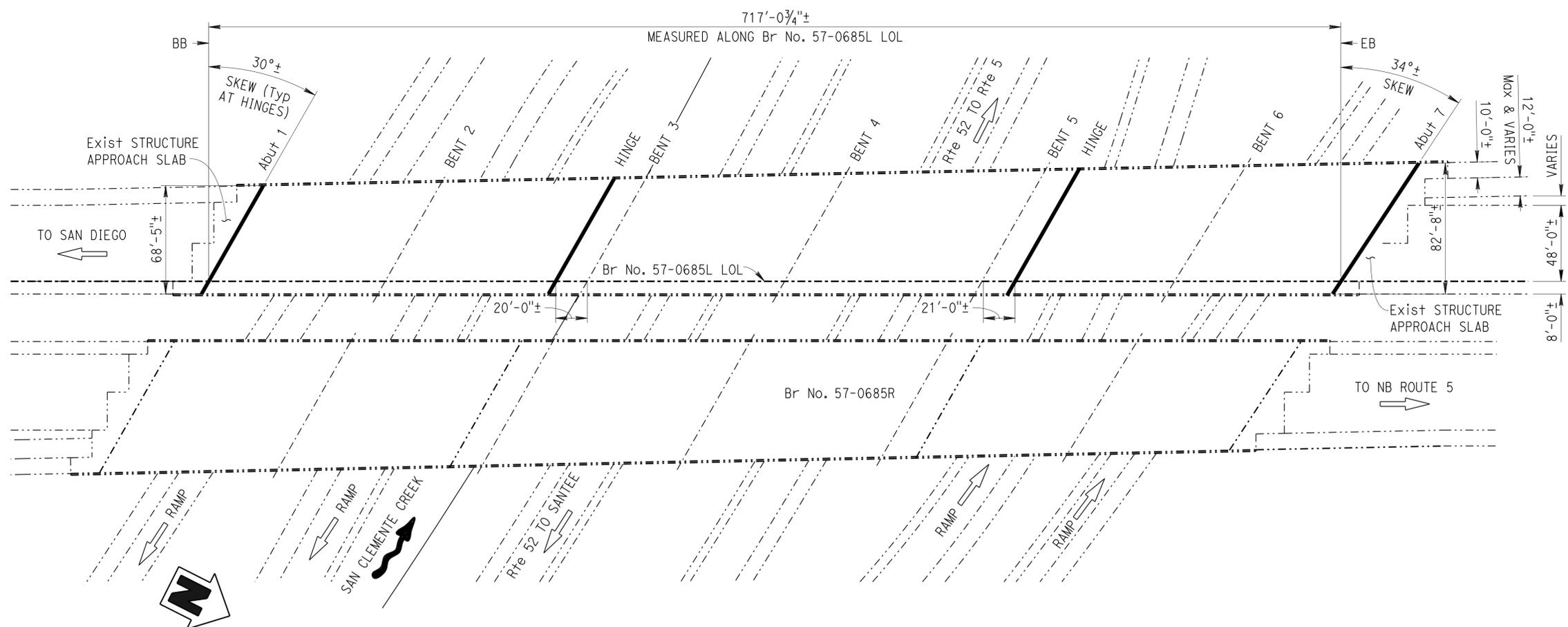
QUANTITIES

CLEAN EXPANSION JOINT	352 LF
JOINT SEAL (MR 1 1/2")	180 LF
BONDED JOINT SEAL (MR 2 1/2")	90 LF
BONDED JOINT SEAL (MR 3")	82 LF

NOTES: (APPLY TO THIS SHEET ONLY)

① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.

— Indicates limits of clean expansion joint and place joint seal. For details see "JOINT SEAL DETAILS" sheet.



ROUTE 805/52 SEPARATION

Br No. 57-0685L, ROUTE 805, PM 23.58
 1" = 40'

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

ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES

TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS

GENERAL PLAN No. 10

Michael J. Lee 3-22-16
 DESIGN ENGINEER

DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA	LOAD FACTOR DESIGN
DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA	LAYOUT
QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA	SPECIFICATIONS

LIVE LOADING:	HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
BY	G.F. BIDWELL
CHECKED	FRANZ ESPINOZA
PLANS AND SPECS COMPARED	V. RENGANATHAN

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE No.	VARIOUS
POST MILE	VARIES

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	40	45

Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
 THOMAS J. BOLLA
 No. C 43811
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA
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S805-E52 CONNECTOR OVERCROSSING (57-0706F)

QUANTITIES

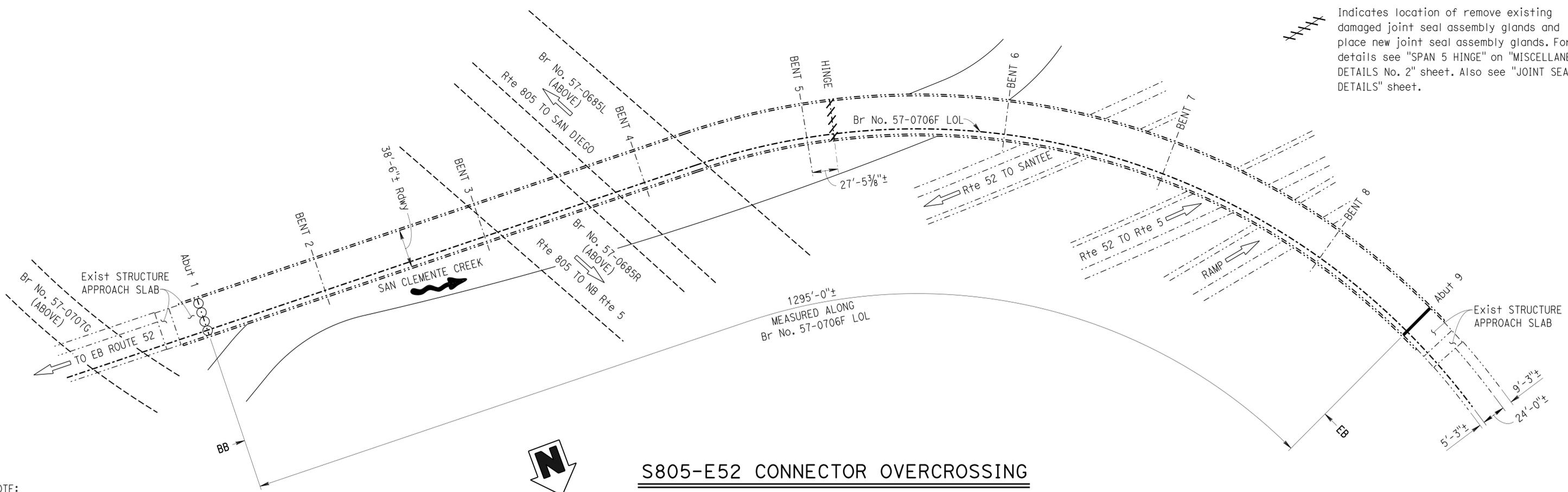
BRIDGE REMOVAL (PORTION)	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	9 CY
CLEAN EXPANSION JOINT	117 LF
JOINT SEAL (MR 1 1/2")	39 LF
JOINT SEAL ASSEMBLY (MR 4")	39 LF
REPLACE NEOPRENE STRIP SEAL GLAND (WBA SE-300)	39 LF

NOTES: (APPLY TO THIS SHEET ONLY)

○ ○ ○ ○ ○ Indicates location of bridge removal (portion), place structure concrete (bridge) and place joint seal assembly. For details see "ABUTMENT 1" on "MISCELLANEOUS DETAILS No. 1" sheet. Also see "MISCELLANEOUS DETAILS No. 2" and "STRIP JOINT SEAL ASSEMBLY MAXIMUM MOVEMENT RATING = 4" sheets.

— Indicates location of bridge removal (portion), place structure concrete (bridge) and place joint seal. For details see "ABUTMENT 9" on "MISCELLANEOUS DETAILS No. 1" sheet. Also see "JOINT SEAL DETAILS" sheet.

/// Indicates location of remove existing damaged joint seal assembly glands and place new joint seal assembly glands. For details see "SPAN 5 HINGE" on "MISCELLANEOUS DETAILS No. 2" sheet. Also see "JOINT SEAL DETAILS" sheet.



S805-E52 CONNECTOR OVERCROSSING

Br No. 57-0706F, ROUTE 805, PM 23.61
1" = 50'

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

ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES

TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS

GENERAL PLAN No. 11

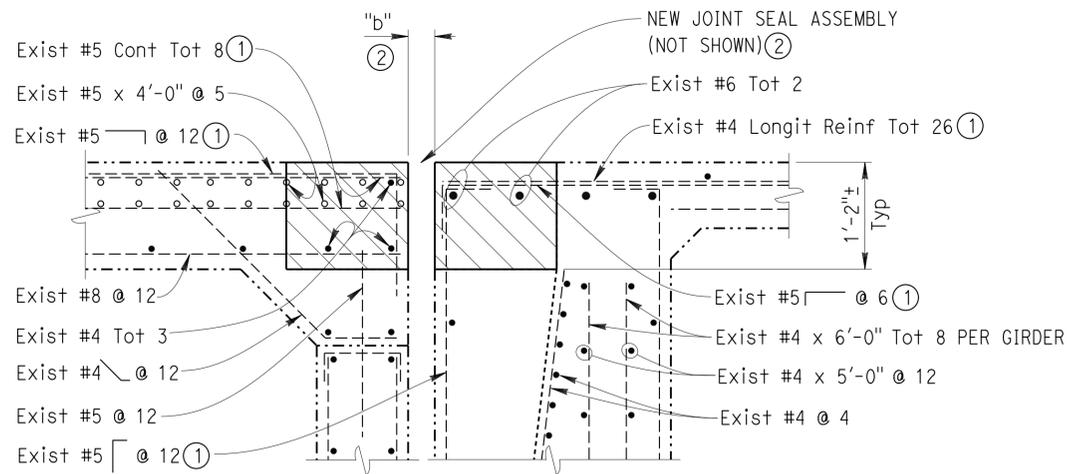
 3-22-16 DESIGN ENGINEER	DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE No.	
	DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA	LAYOUT	BY G.F. BIDWELL		CHECKED FRANZ ESPINOZA	STRUCTURE MAINTENANCE DESIGN	VARIOUS
	QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA	SPECIFICATIONS	BY V. RENGANATHAN		CHECKED V. RENGANATHAN	PLANS AND SPECS COMPARED	POST MILE
								VARIES	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	41	45

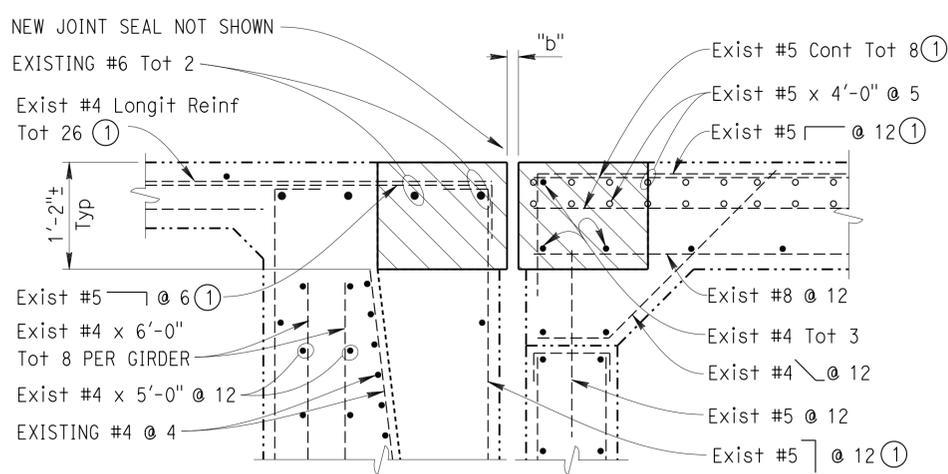
REGISTERED CIVIL ENGINEER
 THOMAS J. BOLLA
 No. C 43811
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA

3-22-16 DATE
 05-16-16 PLANS APPROVAL DATE

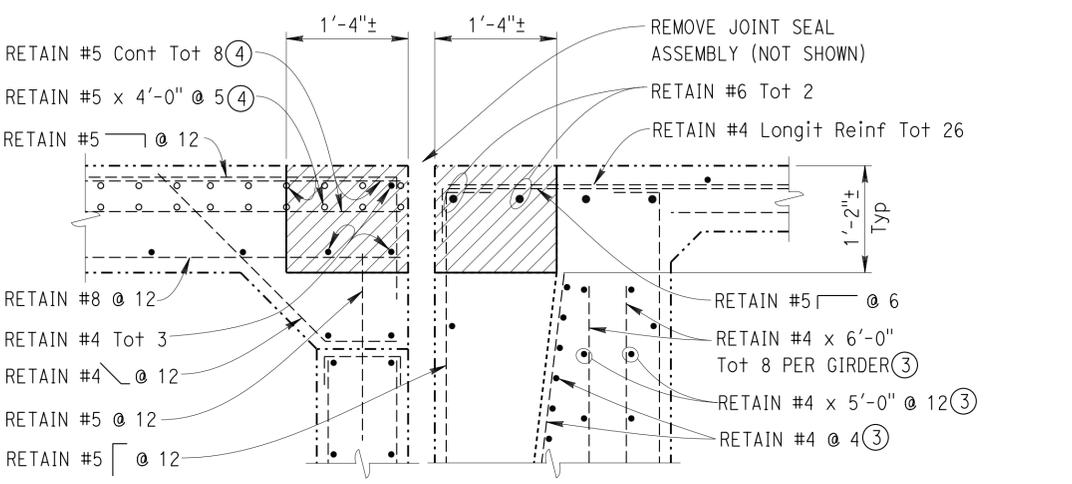
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RECONSTRUCTION

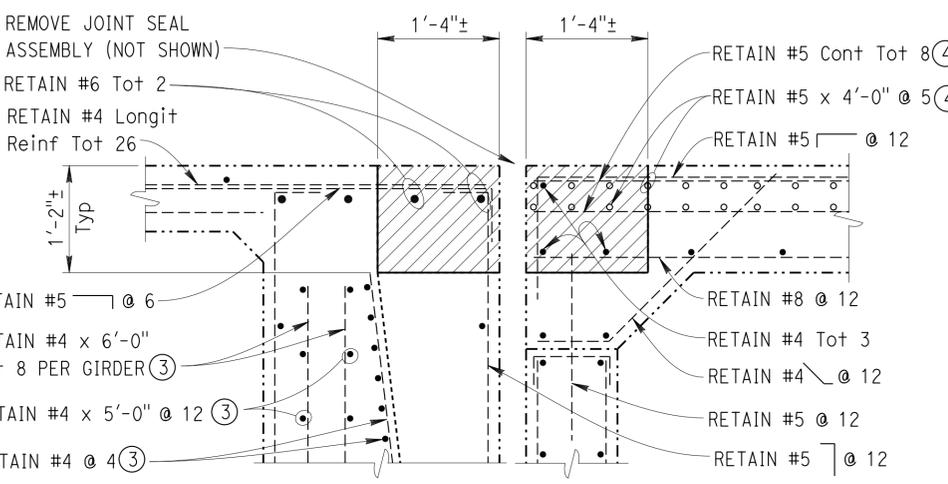


RECONSTRUCTION



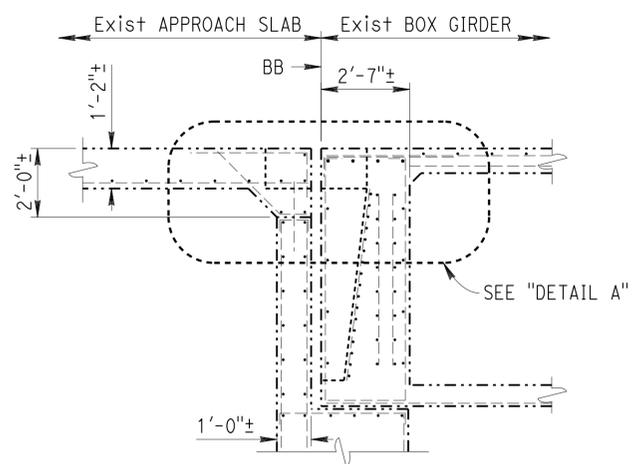
**EXISTING
DETAIL A**

1" = 1'



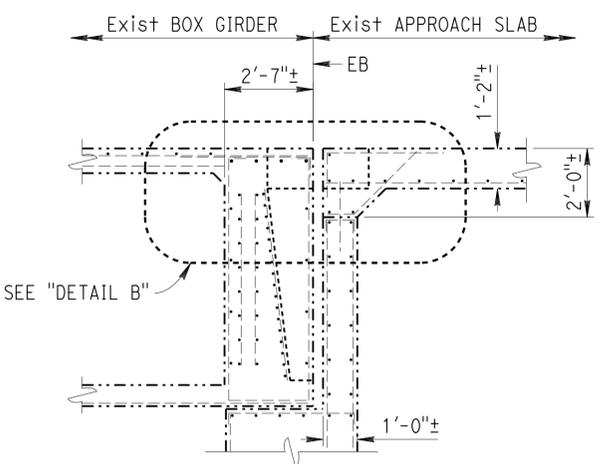
**EXISTING
DETAIL B**

1" = 1'



ABUTMENT 1

Br No. 57-0706F
3/8" = 1'



ABUTMENT 9

Br No. 57-0706F
3/8" = 1'

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

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of remove existing concrete.
 - Indicates limits of place Structural Concrete (Bridge).
 - ① Bend existing reinforcing steel as required to clear new joint seal assembly.
 - ② New joint seal assembly not shown. For joint seal assembly at barrier rails see "MISCELLANEOUS DETAILS No. 2" sheet. For all other details see "STRIP JOINT SEAL ASSEMBLY MAXIMUM MOVEMENT RATING = 4" sheet.
 - ③ Reinforcing steel located only at girders (total 4).
 - ④ Reinforcing steel located at the left and right edges of roadway.
- "b" Reconstructed gap width as determined by the Engineer.

DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE No.	VARIOUS
DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA			POST MILE	VARIABLE
QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA				

ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES	
TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS	
MISCELLANEOUS DETAILS No. 1	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	42	45

Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
 THOMAS J. BOLLA
 No. C 43811
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA
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TEMPORARY DECKING DESIGN LOADING		
MOMENT DEMAND/FOOT (kip-ft/ft)	ANCHOR BOLT SHEAR/FOOT (kip/ft)	ANCHOR BOLT TENSION (kip)
8.9	3.9	4.3

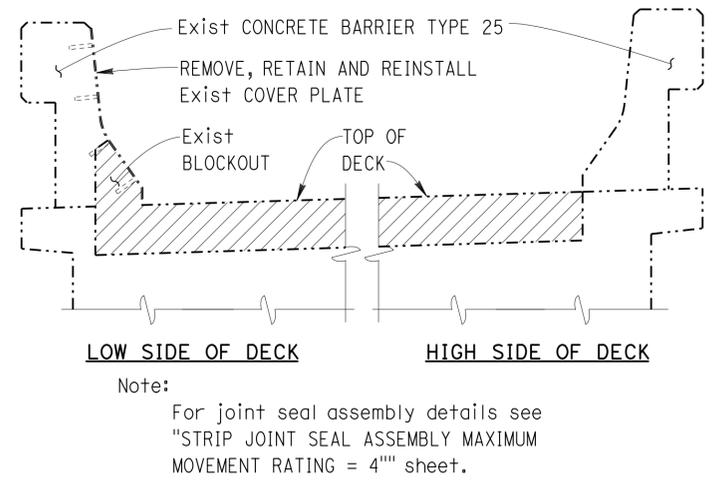
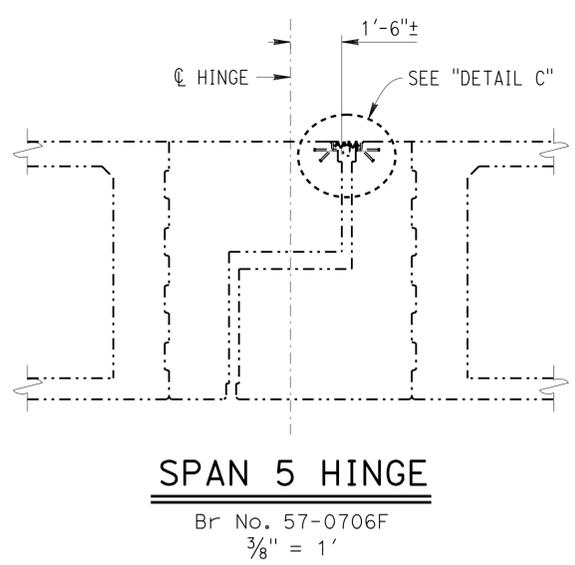
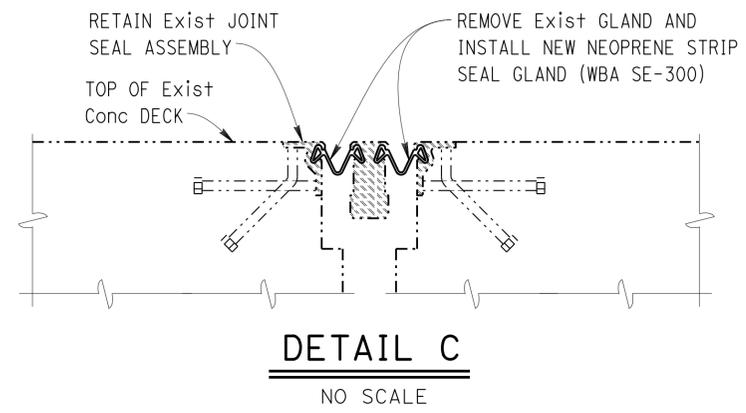
Plate deflection shall not exceed $s/300$ (s = span of plate).
 Maximum anchor bolt spacing = 0'-9".

NOTES: (APPLY TO THIS SHEET ONLY)

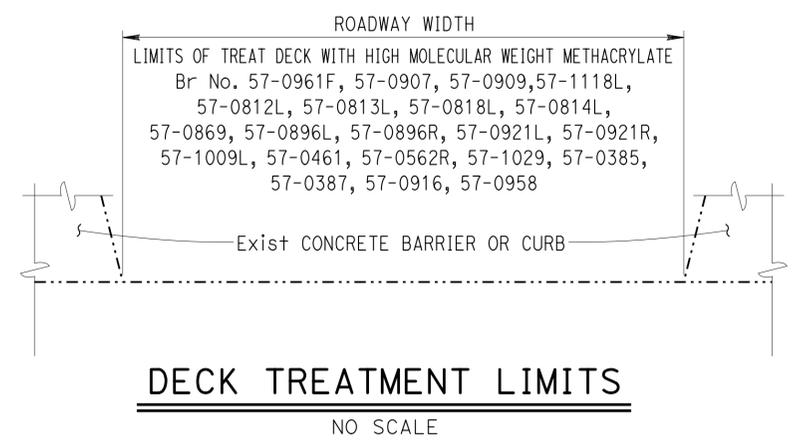
 Indicates limits of remove existing concrete and joint seal assembly.

JOINT SEAL ASSEMBLY TABLE								
BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	Approx LENGTH (FEET)	SKEW	EXISTING WATERSTOP	Approx DEPTH TO CLEAN Exp JOINT (INCHES)	
S805-E52 CONNECTOR OC	57-0706F	ABUTMENT 1	BB	4	39	0°	NO	90

LEGEND:
 BB = BEGINNING OF BRIDGE



JOINT SEAL ASSEMBLY AT BARRIER RAILS
 Br No. 57-0706F
 NO SCALE



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

DESIGN BY T. BOLLA		CHECKED FRANZ ESPINOZA	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE No. VARIOUS	ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS MISCELLANEOUS DETAILS No. 2
DETAILS BY G.F. BIDWELL		CHECKED FRANZ ESPINOZA			POST MILE VARIES	
QUANTITIES BY T. BOLLA		CHECKED FRANZ ESPINOZA				

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS UNIT: 3488 PROJECT NUMBER & PHASE: 1114000039 1 CONTRACT No.: 11-417801 DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 9-16-15, 10-28-15, 12-16-15, 1-13-16, 3-22-16 SHEET 13 OF 16

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	43	45

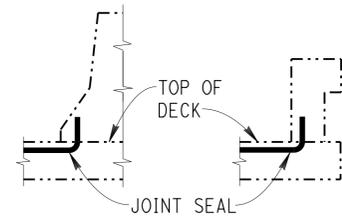
Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE
 05-16-16
 PLANS APPROVAL DATE
 THOMAS J. BOLLA
 No. C 43811
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA
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JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN EXPANSION JOINT (INCHES)	
						BB	EB
LAS BANCAS ROAD UC	57-0691R	Abut 1	BB	1/2	49	NO	12
			WW	1/2	34	NO	12
		Abut 2	WW	1/2	34	NO	12
			EB	1/2	49	NO	12
H AVENUE OC	57-0940	Abut 1	BW	2 1/2 *	40	YES	12
		Abut 3	BW	2 1/2 *	44	YES	12
BERNARDO CENTER DRIVE UC	57-1118L	Abut 1	BB	1 **	222	NO	75
		Abut 4	EB	1 **	223	NO	75
RANCHO BERNARDO ROAD UC	57-0578	Abut 1	BB	1	286	NO	12
		Abut 3	EB	1	267	NO	12
WASHINGTON AVENUE OH	57-0812L	Abut 1	BB	2 *	141	NO	12
		Abut 5	EB	2 *	133	NO	12
MISSION AVENUE UC	57-0813L	Abut 1	BB	1	67	NO	12
		Abut 4	EB	1	67	NO	12
	57-0813R	Abut 1	BB	1	84	NO	12
		Abut 4	EB	1	80	NO	12
ROUTE 15/78 SEPARATION	57-0814L	Abut 1	BB	1 1/2	57	NO	12
		Abut 3	EB	1 1/2	57	NO	12
	57-0814R	Abut 1	BB	1 1/2	57	NO	12
		Abut 3	EB	1 1/2	57	NO	12
COUNTRY CLUB LANE UC	57-0819L	Abut 3	EB	2 1/2 *	75	NO	12
CENTRE CITY PARKWAY-N15 OC	57-0911S	Abut 1	BW	2	26	NO	12
		Abut 4	BW	2	26	NO	12
NUTMEG STREET UC	57-0892R	Abut 1	BB	1 **	74	NO	12
		Abut 2	EB	1 **	66	NO	12
MESA ROCK ROAD UC	57-0893R	Abut 1	BB	1 **	73	NO	12
		Abut 2	EB	1 **	73	NO	12
STEWART CANYON ROAD UC	57-0896L	Abut 1	BB	1/2	66	NO	15
		Abut 2	EB	1/2	66	NO	15
	57-0896R	Abut 1	BB	1/2	66	NO	15
		Abut 2	EB	1/2	66	NO	15
RAINBOW CREEK	57-0937L	Abut 1	BB	1 **	86	NO	12
		Abut 4	EB	1 **	86	NO	12
	57-0937R	Abut 1	BB	1 **	86	NO	12
		Abut 4	EB	1 **	86	NO	12
PARK UNDERCROSSING	57-0771L	Abut 1	BB	1/2	25	NO	12
		Abut 2	EB	1/2	25	NO	12
	57-0771R	Abut 1	BB	1/2	25	NO	12
		Abut 2	EB	1/2	25	NO	12

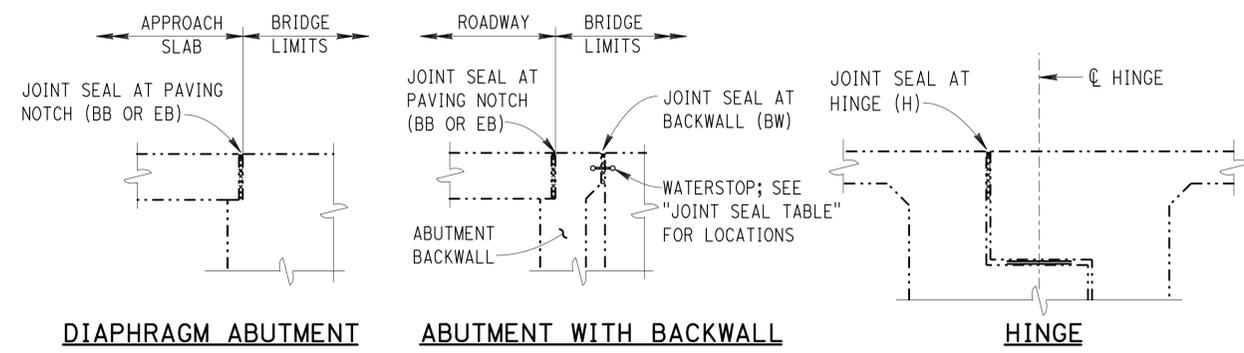
JOINT SEAL TABLE (CONTINUED)							
BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN EXPANSION JOINT (INCHES)	
						BB	EB
ROUTE 805/52 SEPARATION	57-0685L	Abut 1	BB	1/2	80	NO	12
		SPAN 2	H	3 *	82	NO	44
		SPAN 5	H	2 1/2 *	90	NO	44
		Abut 7	EB	1/2	100	NO	12
S805-E52 CONNECTOR OC	57-0706F	SPAN 5	H	6 γγ	39	NO	12
		Abut 9	EB	1 1/2	39	NO	90

LEGEND:
 BB = BEGINNING OF BRIDGE
 EB = END OF BRIDGE
 H = HINGE
 * = BONDED JOINT SEAL
 γγ = NEOPRENE STRIP SEAL GLAND (WBA SE-300)

- The following notes apply to JOINT SEAL TYPE B:
- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
 - Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
 - W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
 - Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
 - For details not shown see RSP B6-21



BARRIER RAIL
JOINT SEAL AT LOW SIDE OF DECK
 DETAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY. FOR USE ONLY WHERE DECK JOINT MATCHES THE BARRIER RAIL
 NO SCALE



DIAPHRAGM ABUTMENT **ABUTMENT WITH BACKWALL** **HINGE**
JOINT SEAL LOCATION
 NO SCALE

LEGEND:
 BB = BEGINNING OF BRIDGE
 EB = END OF BRIDGE
 BW = ABUTMENT BACKWALL
 WW = WINGWALL
 * = BONDED JOINT SEAL
 ** = SILICONE JOINT SEAL

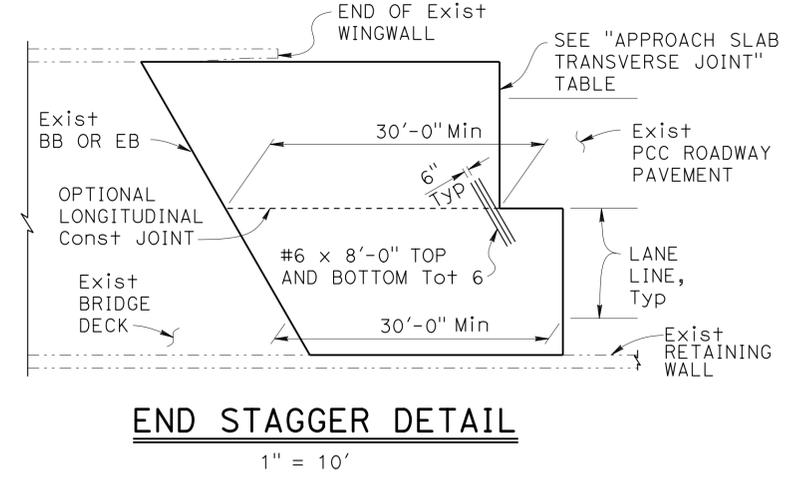
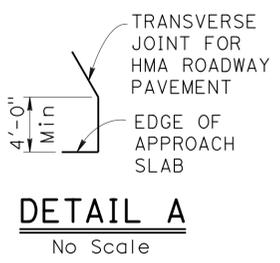
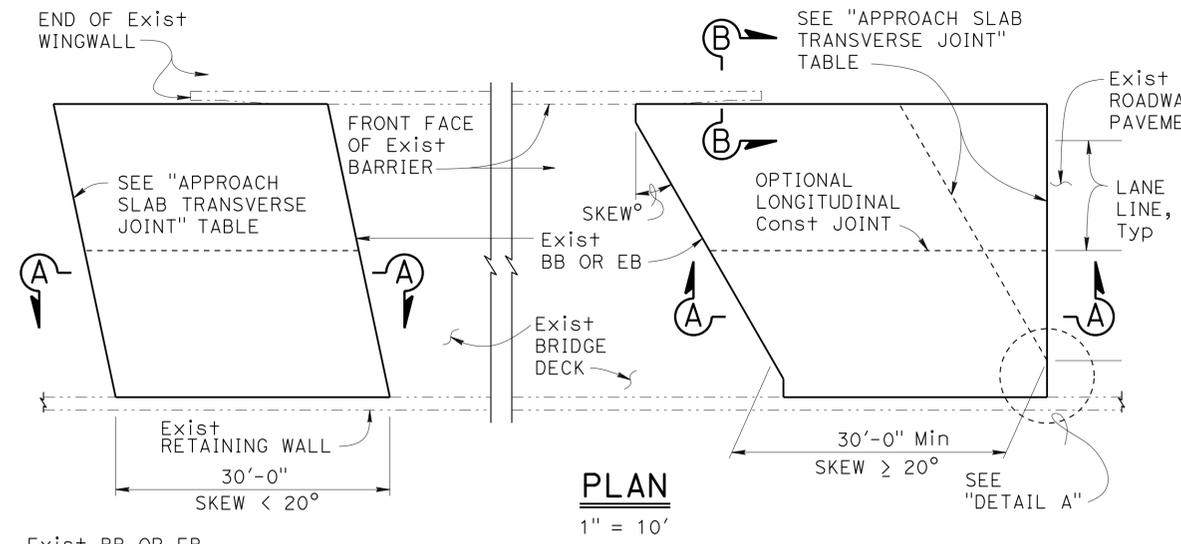
NOTE:
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DESIGN BY T. BOLLA		CHECKED FRANZ ESPINOZA	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE No. VARIOUS	ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS JOINT SEAL DETAILS
DETAILS BY G.F. BIDWELL		CHECKED FRANZ ESPINOZA			POST MILE VARIES	
QUANTITIES BY T. BOLLA		CHECKED FRANZ ESPINOZA			VARIES	

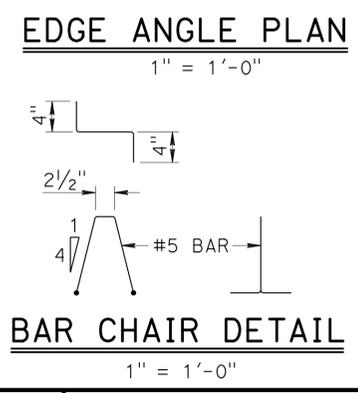
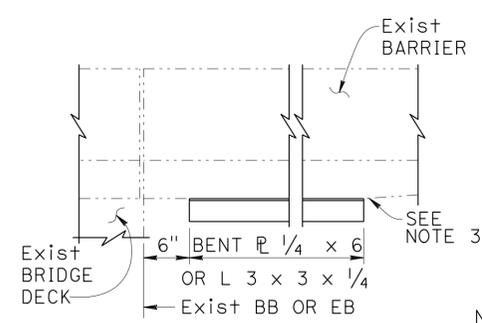
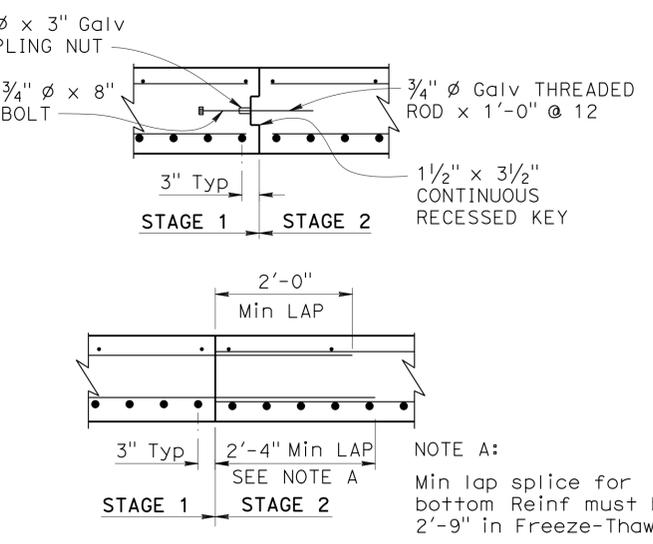
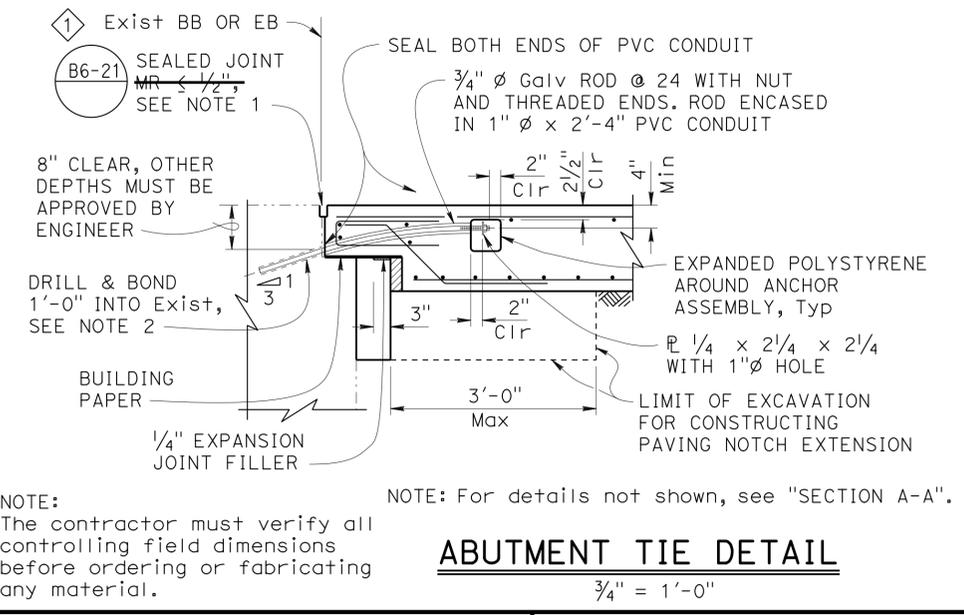
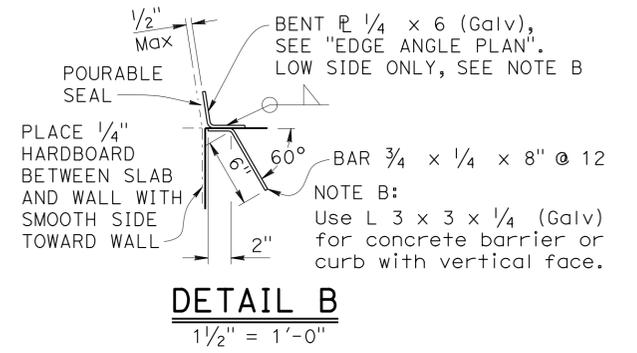
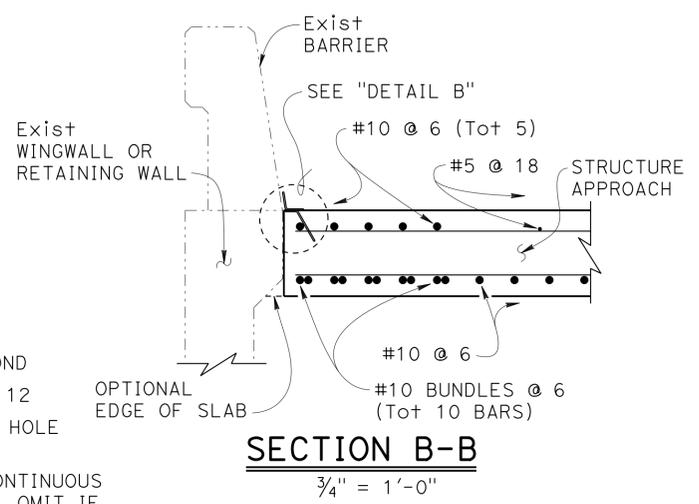
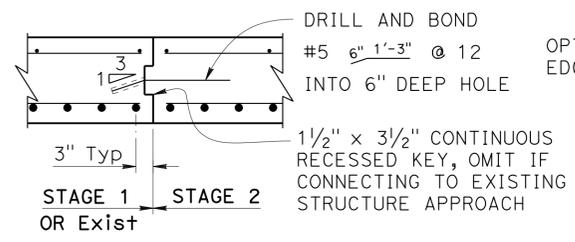
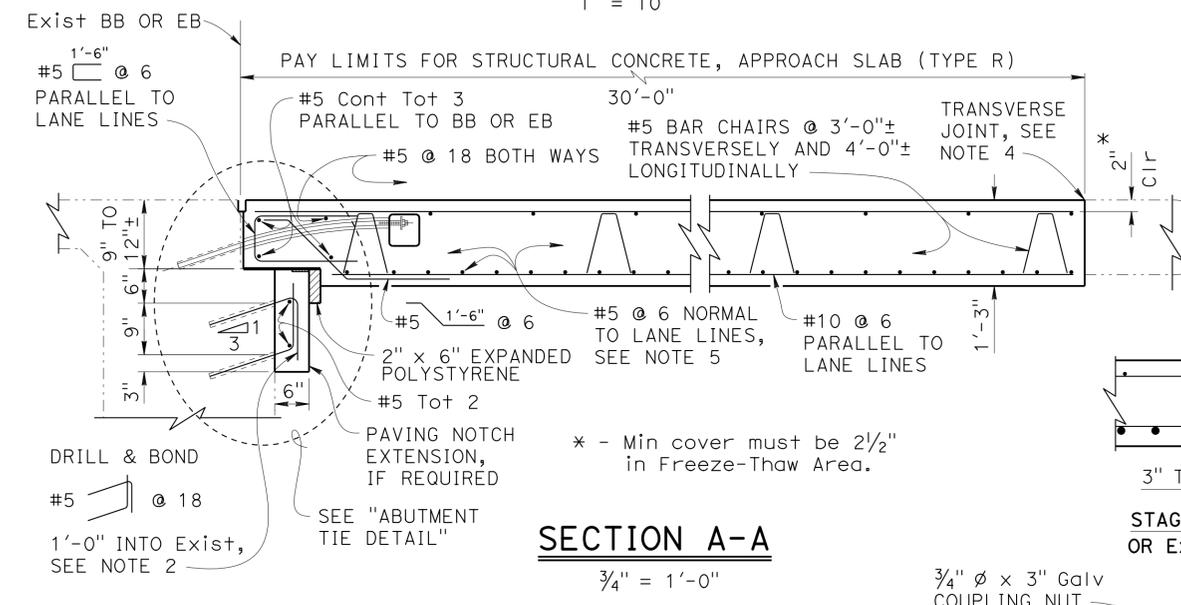
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS UNIT: 3488 PROJECT NUMBER & PHASE: 1114000039 1 CONTRACT No.: 11-417801 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
9-16-15	14	16

USERNAME => s127400 DATE PLOTTED => 13-JUN-2016 TIME PLOTTED => 11:02 FILE => 11-417801_14jsdets.dgn



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"



- 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 ($\gamma_{FAT} = 1.0$)
- DEAD LOAD: Includes 35 psf for future wearing surface
- LIVE LOAD: HL93 and permit design load
Equivalent strip width method: $W_1 = 12$ ft
Slab span: $L_1 = 24.5$ 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. RSP P10.
 - At the Contractor's option, approach slab transverse reinforcement may be placed parallel to BB or EB. Spacing of transverse reinforcement is measured along ℓ roadway.
- Indicates Existing Structure

STANDARD DRAWING

FILE NO. **xs3-150**

APPROVAL DATE January 2015

NOTE CHANGED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES

TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS

STRUCTURE APPROACH TYPE R (30D)

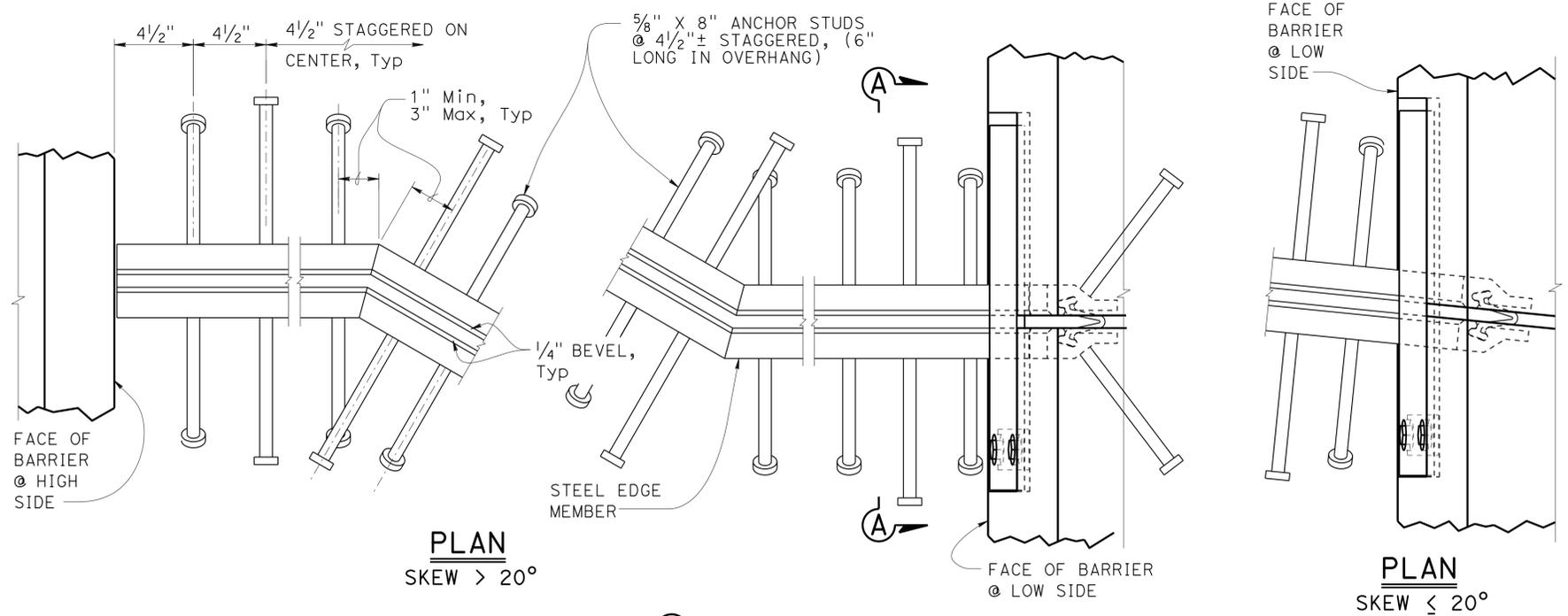
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8, 15, 52, 56, 67, etc.	Var	45	45

Thomas J. Bolla 3-22-16
 REGISTERED CIVIL ENGINEER DATE

05-16-16
 PLANS APPROVAL DATE

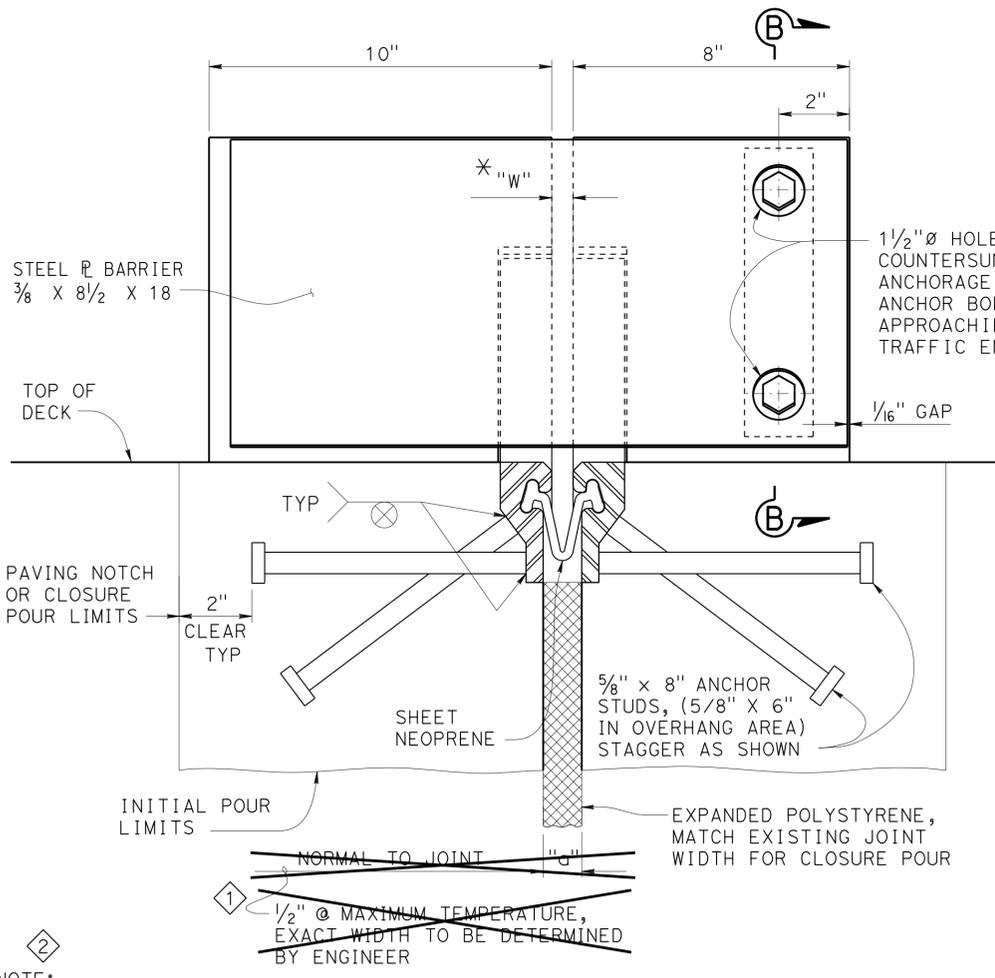
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 THOMAS J. BOLLA
 No. C 43811
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA



SCHEMATIC STEEL EDGE MEMBER

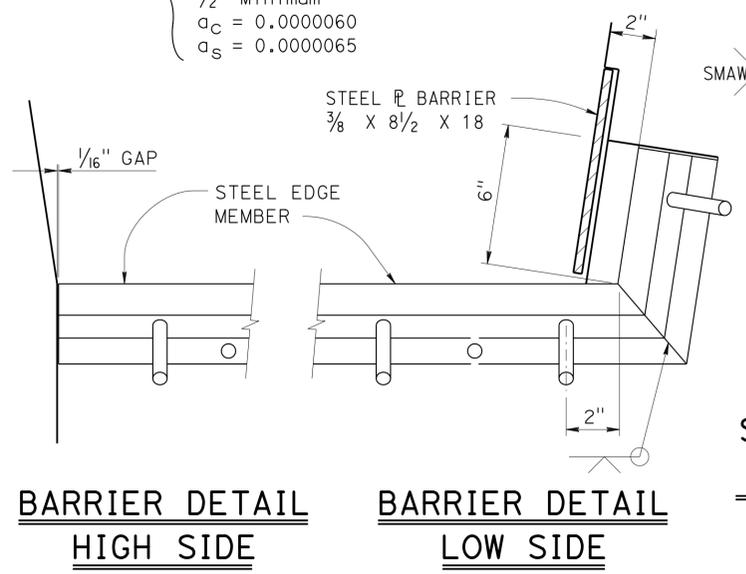
- NOTES:
- Alternatively, fillet or complete penetration welds may be used at anchor studs.
 - Alternate types of anchor studs may be permitted subject to the authorization by the Engineer.
 - Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour 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		
LOCATION	MOVEMENT RATING (MR)	SKEW	WINTER	SPRING & FALL	SUMMER
1					

* TO SET MINIMUM JOINT OPENING "W"

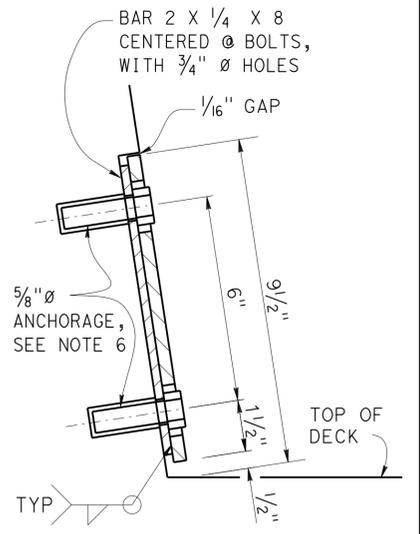
$$"W" = \begin{cases} \frac{1}{2} + [(Max\ Str\ temperature\ in\ ^\circ F) - (actual\ Str\ temperature\ in\ ^\circ F)] * (a_c\ or\ a_s) * (12) * (contributory\ L\ in\ feet) \\ \frac{1}{2} \text{ Minimum} \\ a_c = 0.0000060 \\ a_s = 0.0000065 \end{cases}$$



NOTE: SHADED AREAS TO BE WELDED

SCHEMATIC FIELD WELD DETAIL

SCHEMATIC SHOP WELD DETAIL



NO SCALE

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

ROUTES 8, 15, 52, 56, 67, 76, 78 & 805 BRIDGES
TREAT DECK, REPLACE JOINT SEALS & APPROACH SLABS
STRIP JOINT SEAL ASSEMBLY
MAXIMUM MOVEMENT RATING = 4"

STANDARD DRAWING	1 NOTE OR DETAIL DELETED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No. VARIOUS	STRIP JOINT SEAL ASSEMBLY
FILE NO. xs8-010	2 NOTE ADDED			POST MILE VARIES	
APPROVAL DATE July 2014		UNIT: 3488	PROJECT NUMBER & PHASE: 1114000039 1	CONTRACT No.: 11-417801	DISREGARD PRINTS BEARING EARLIER REVISION DATES
DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (10-01-14))	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	FILE => 11-417801_16xs8-010.dgn	REVISION DATES	SHEET 16 OF 16