

INDEX OF PLANS

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACNH-P099(547)E

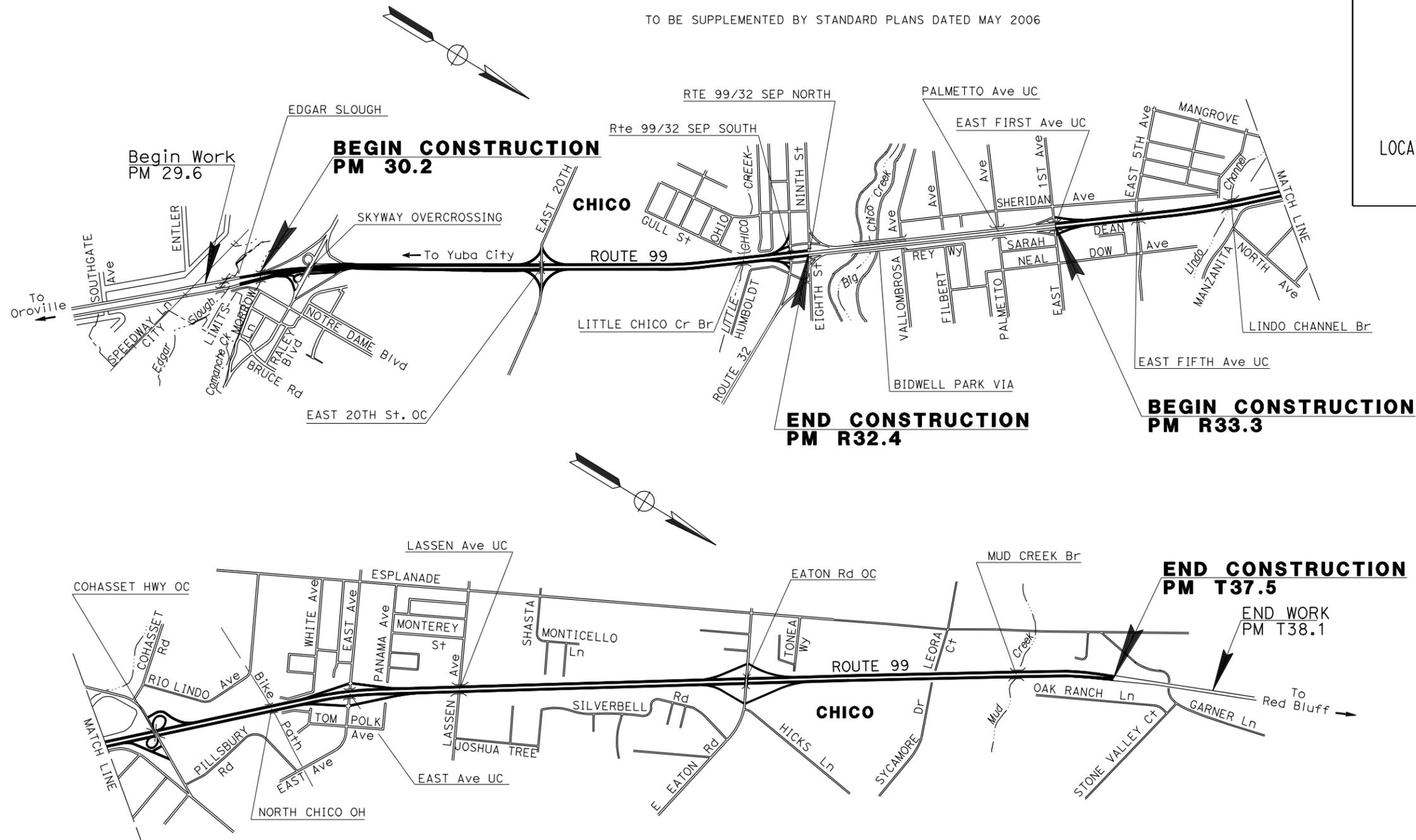
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN BUTTE COUNTY IN AND NEAR
CHICO, FROM 0.4 MILE SOUTH OF SKYWAY OVERCROSSING
TO 0.3 MILE NORTH OF MUD CREEK BRIDGE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	1	26



TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



NO SCALE

PROJECT MANAGER
BRIAN TOEPFER
DESIGN ENGINEER
BRIAN KORTE

Brian D. Toepfer
PROJECT ENGINEER DATE 3-2-11
REGISTERED CIVIL ENGINEER
March 2, 2011
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.	03-3M8504
PROJECT ID	0300000605

DATE PLOTTED => 03-MAR-2011
TIME PLOTTED => 13:56
LAST REVISION 00-00-00

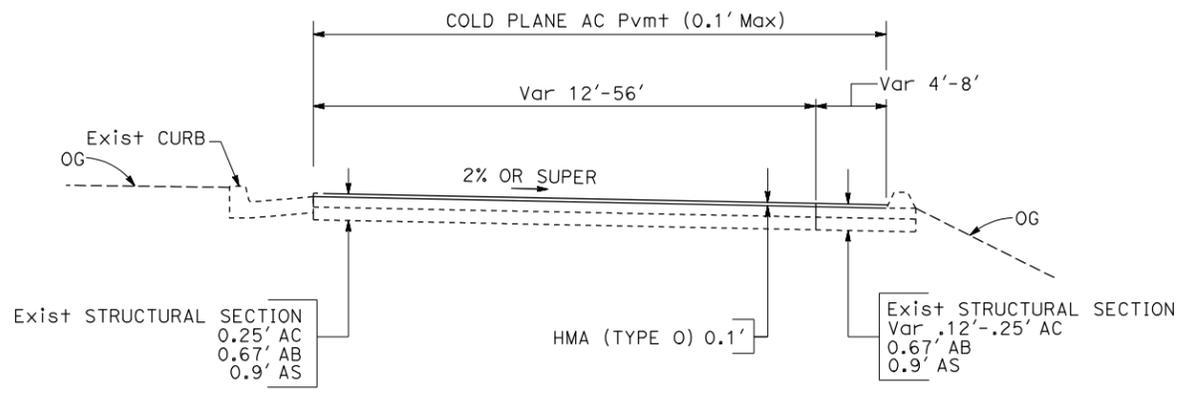
NOTES:

- 1) HMA (TYPE O) PAVING BEGINS (OFF-RAMP) OR ENDS (ON-RAMP) AT THE NOSE OF RAISED GORE.
- 2) FOR LOCATIONS AND QUANTITIES, SEE QUANTITY SHEET.
- 3) DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- 4) SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	2	26

REGISTERED CIVIL ENGINEER *Brian D. Toepfer* DATE 3-2-11
 PLANS APPROVAL DATE 3-2-11
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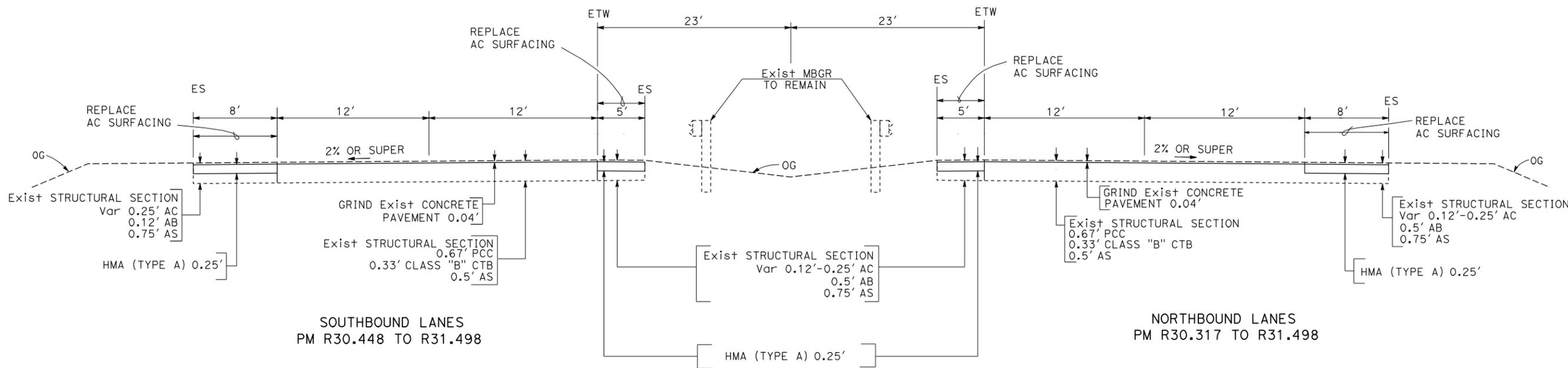
REGISTERED PROFESSIONAL ENGINEER
 BRIAN D. TOEPFER
 No. C46278
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA



RAMPS

ROUTE 99/32, SB ON AND NB OFF RAMPS
 EAST FIRST Ave, NB ON AND SB OFF RAMPS
 COHASSET Ave, NB ON AND OFF AND SB ON AND OFF OFF RAMPS
 EAST Ave, NB AND SB ON AND OFF RAMPS
 EATON Rd, NB AND SB ON AND OFF RAMPS

SKYWAY, NB ON FROM EB SKYWAY AND NB OFF
 EAST 20th STREET, NB AND SB ON AND OFF RAMPS



MAINLINE

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 FUNCTIONAL SUPERVISOR BRIAN TOEPFER
 CALCULATED-DESIGNED BY CHECKED BY
 BRIAN KORTE
 REVISED BY DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

FUNCTIONAL SUPERVISOR
 BRIAN TOEPFER

DESIGNED BY
 BRIAN KORTE

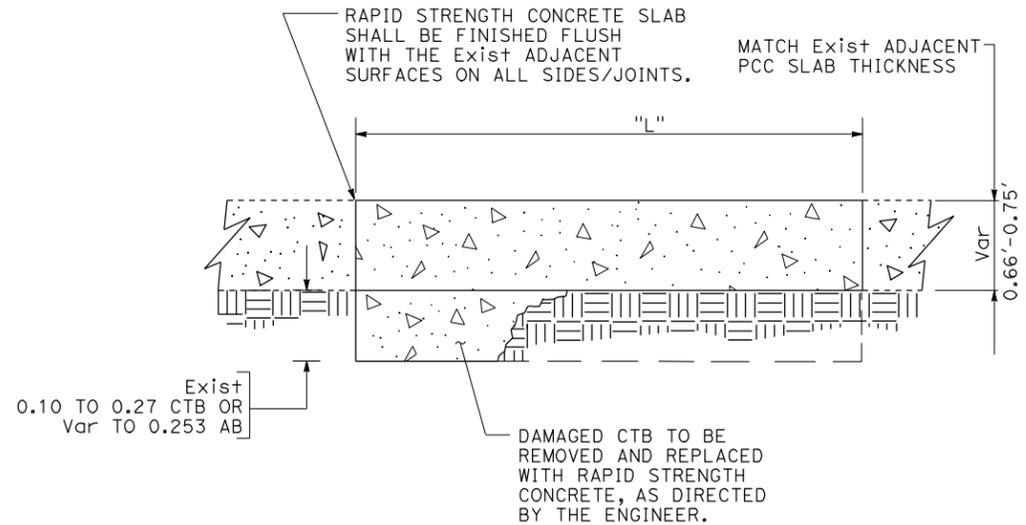
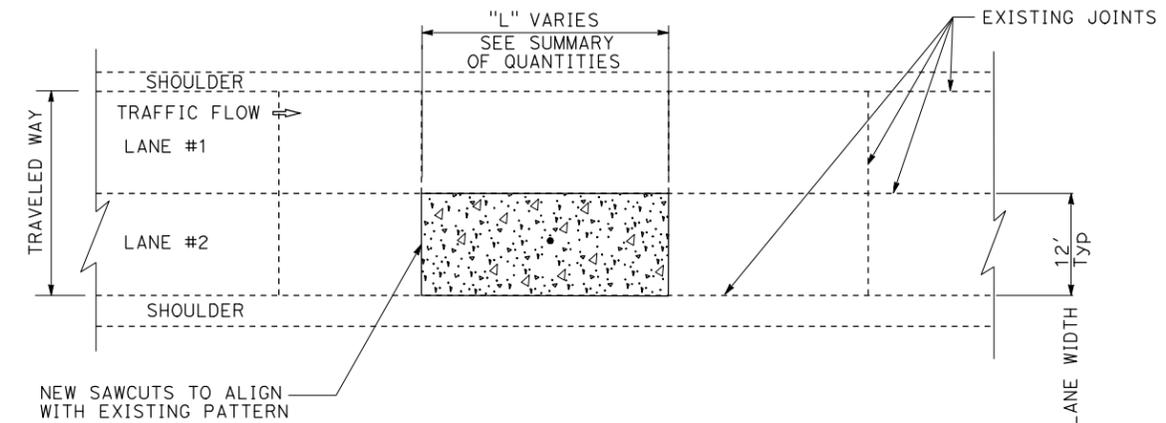
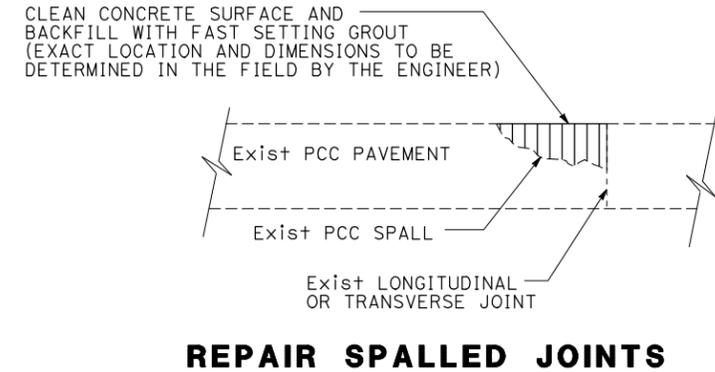
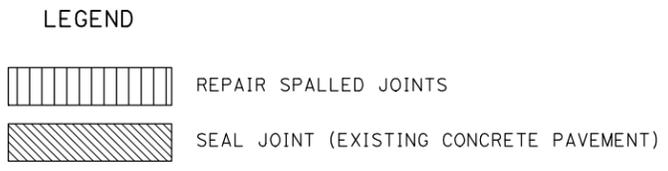
CHECKED BY
 DATE REVISIONS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	3	26

REGISTERED CIVIL ENGINEER DATE 3-2-11
 BIAN D. TOEPFER
 No. C46278
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE 3-2-11

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EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS
 NO SCALE

DATE PLOTTED => 03-MAR-2011 TIME PLOTTED => 13:56

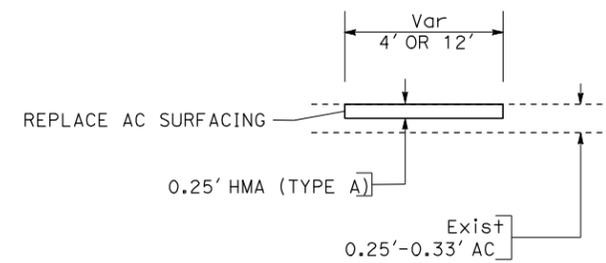
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Bu+	99	30.2/R32.4 R33.3/T37.5	4	26

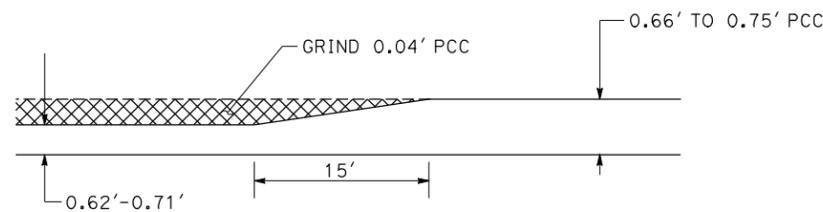
REGISTERED CIVIL ENGINEER *Brian D. Toepfer* DATE 3-2-11
 PLANS APPROVAL DATE 3-2-11
 BRIAN D. TOEPFER
 No. C46278
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

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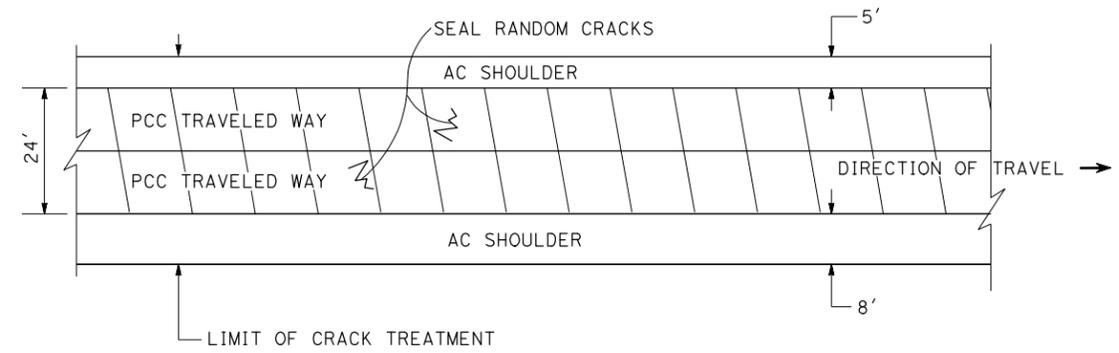
- NOTES
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN.
 - FOR LOCATIONS AND QUANTITIES, SEE QUANTITY SHEETS.



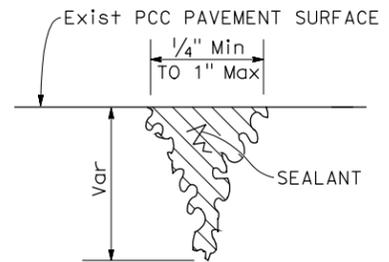
REPLACE ASPHALT CONCRETE SURFACING RAMPS



MAINLINE GRIND CONFORM



**PLAN
 CRACK TREATMENT**



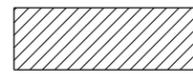
CRACK TREATMENT DETAIL

CONSTRUCTION DETAILS
 NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

LEGEND:



COLD PLANE AC Pvmt (0.1' Max)
 HMA (TYPE 0) 0.1'

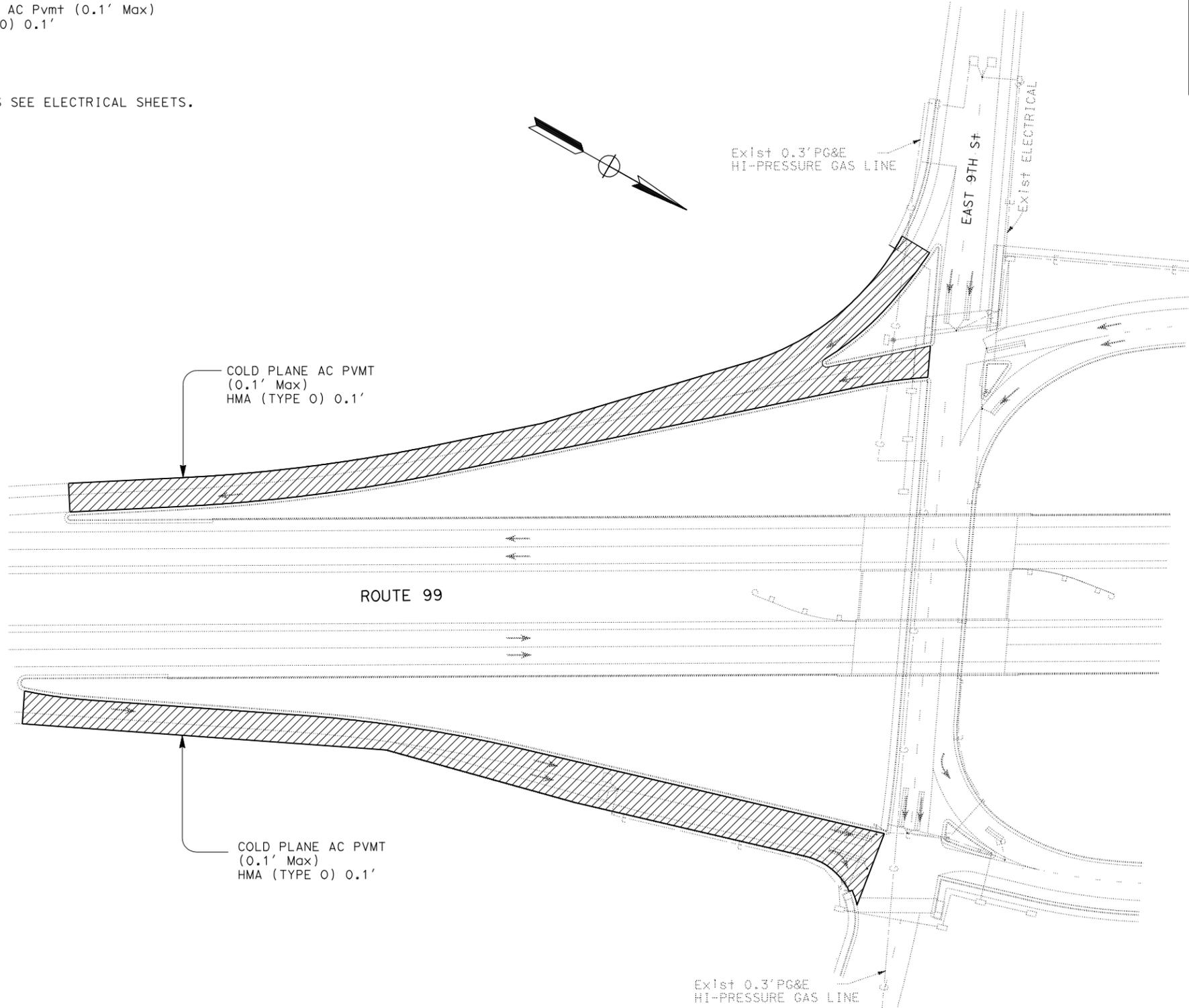
NOTE:

FOR ELECTRICAL FACILITIES SEE ELECTRICAL SHEETS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	5	26

REGISTERED CIVIL ENGINEER *Brian D. Toepfer* 3-2-11 DATE
 PLANS APPROVAL DATE 3-2-11
 BRIAN D. TOEPFER
 No. C46278
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

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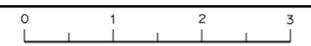


**RAMP WORK LIMITS
 ROUTE 99/32 SEPARATION SOUTH**

CONSTRUCTION DETAILS

NO SCALE

C-3



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

x
x
x
x
x
x
x

FUNCTIONAL SUPERVISOR
BRIAN TOEPFER

DESIGNED BY
BRIAN TOEPFER

CHECKED BY

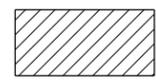
DESIGNED BY
BRIAN KORTE

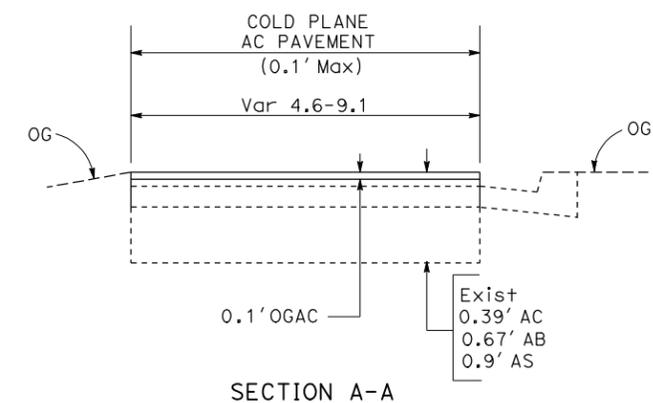
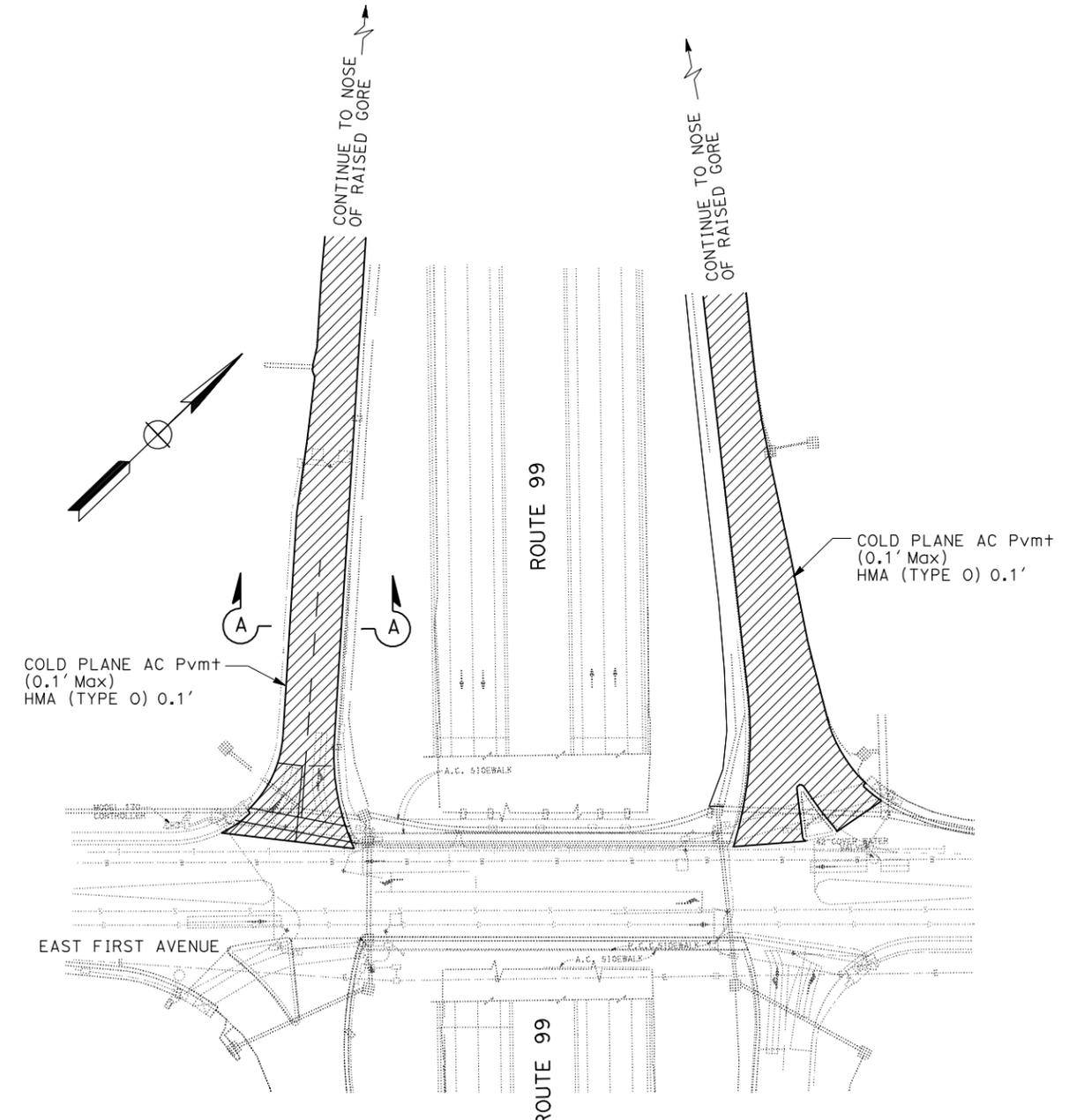
CHECKED BY

REVISOR
BRIAN KORTE

DATE
DATE

LEGEND

 COLD PLANE AC PAVEMENT
(0.1' Max)



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	6	26

REGISTERED CIVIL ENGINEER *Brian D. Toepfer* DATE 3-2-11

PLANS APPROVAL DATE 3-2-11

REGISTERED PROFESSIONAL ENGINEER
 BRIAN D. TOEPFER
 No. C46278
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

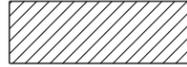
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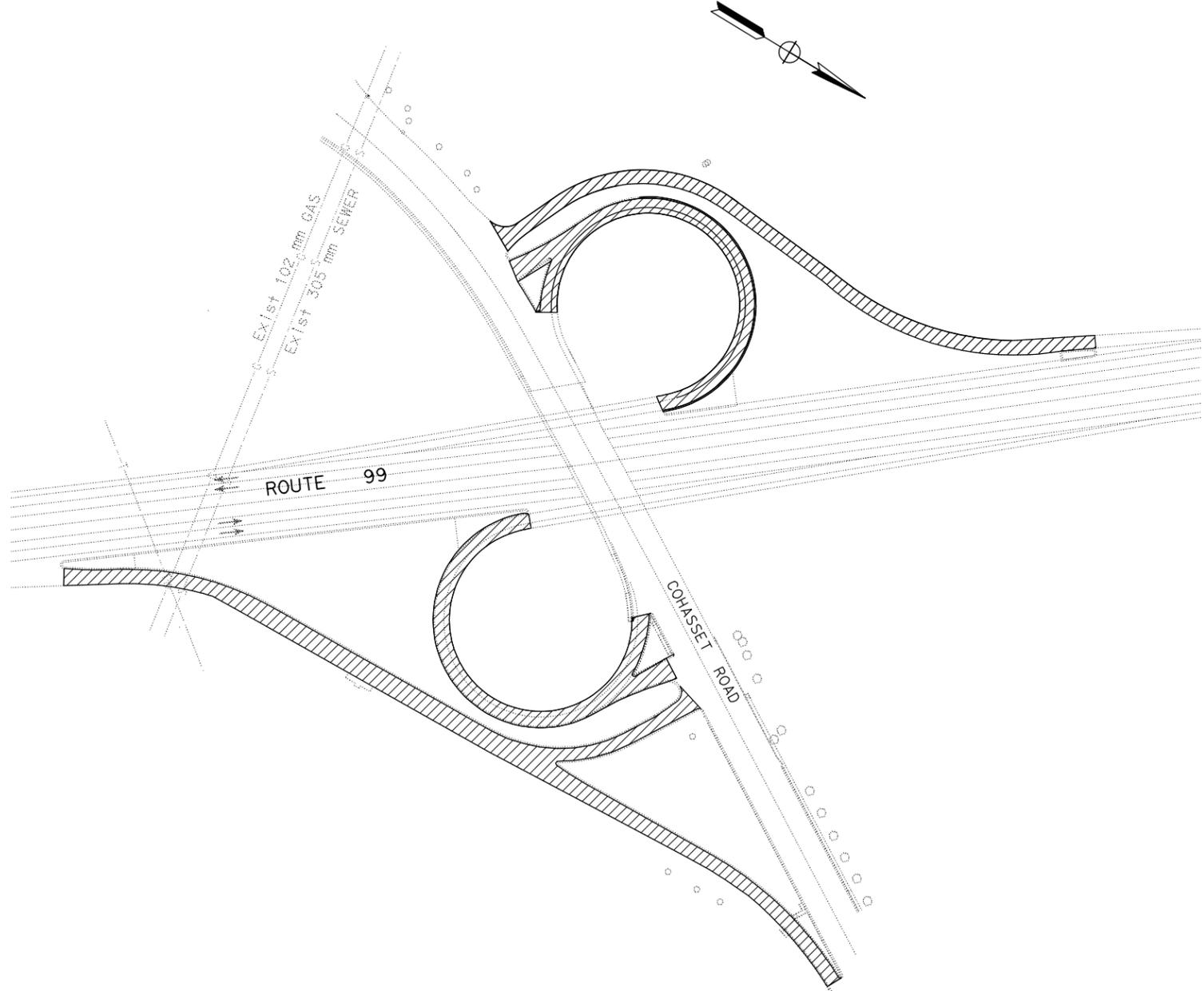
**RAMP WORK LIMITS
 EAST FIRST AVENUE UNDERCROSSING**

CONSTRUCTION DETAILS
 NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

LEGEND:
 COLD PLANE AC Pvm+ (0.1' Max)
 HMA (TYPE O) 0.1'



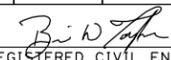
**RAMP WORK LIMITS
 COHASSET HIGHWAY OVERCROSSING**

CONSTRUCTION DETAILS

NO SCALE

C-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	7	26


 REGISTERED CIVIL ENGINEER DATE 3-2-11
 3-2-11
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

FUNCTIONAL SUPERVISOR
 BRIAN TOEPFER

CHECKED BY

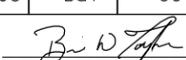
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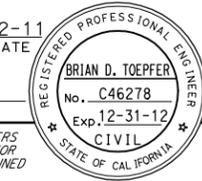
BRIAN KORTE

REVISOR BY

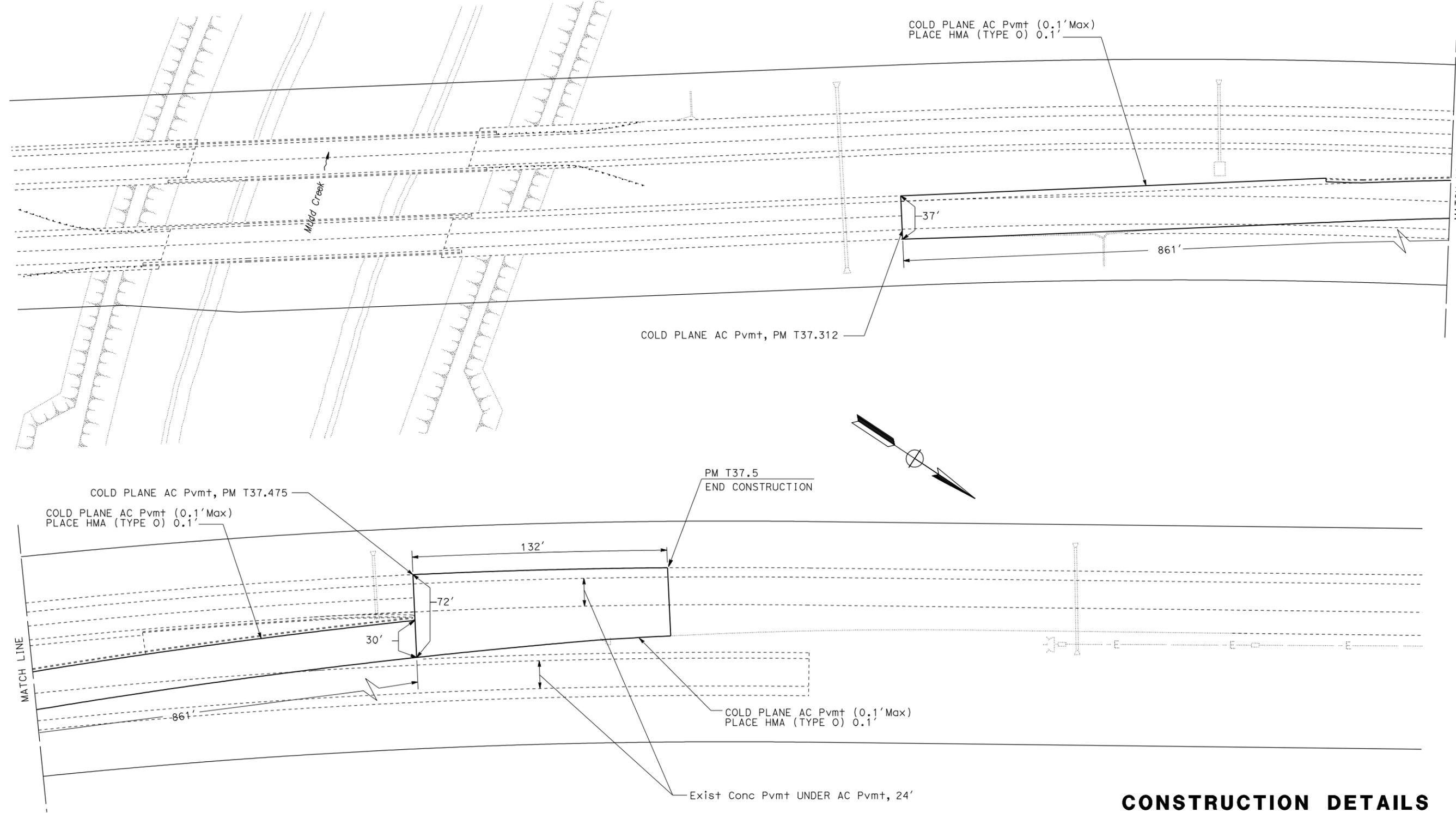
DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	8	26


 REGISTERED CIVIL ENGINEER DATE 3-2-11
 PLANS APPROVAL DATE 3-2-11



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4 LANE TO 2 LANE TRANSITION

CONSTRUCTION DETAILS
 NO SCALE

C-6

NOTE:
EXACT CONFORM LIMITS TO BE DETERMINED BY THE ENGINEER.

ABBREVIATIONS
FSC - FOG SEAL COAT

LEGEND

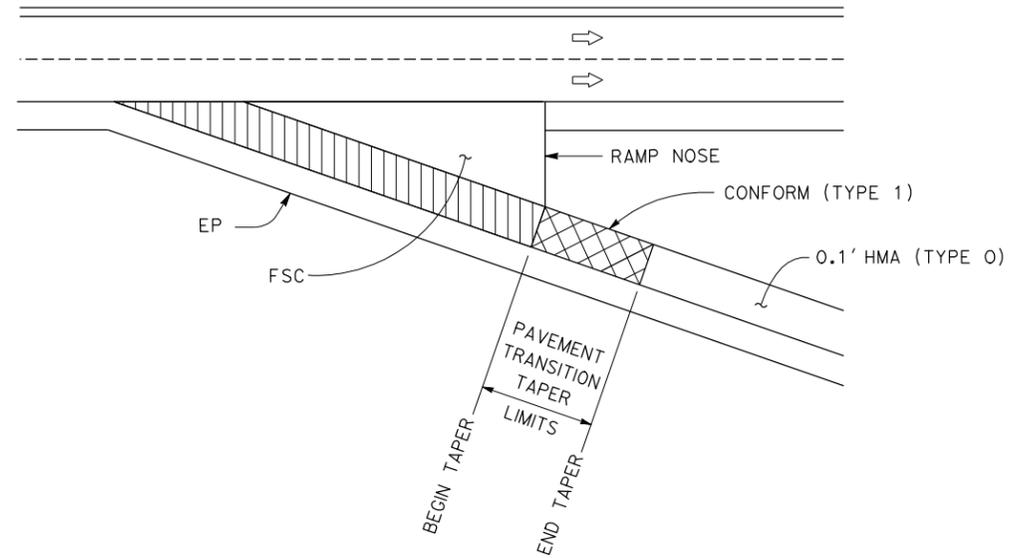
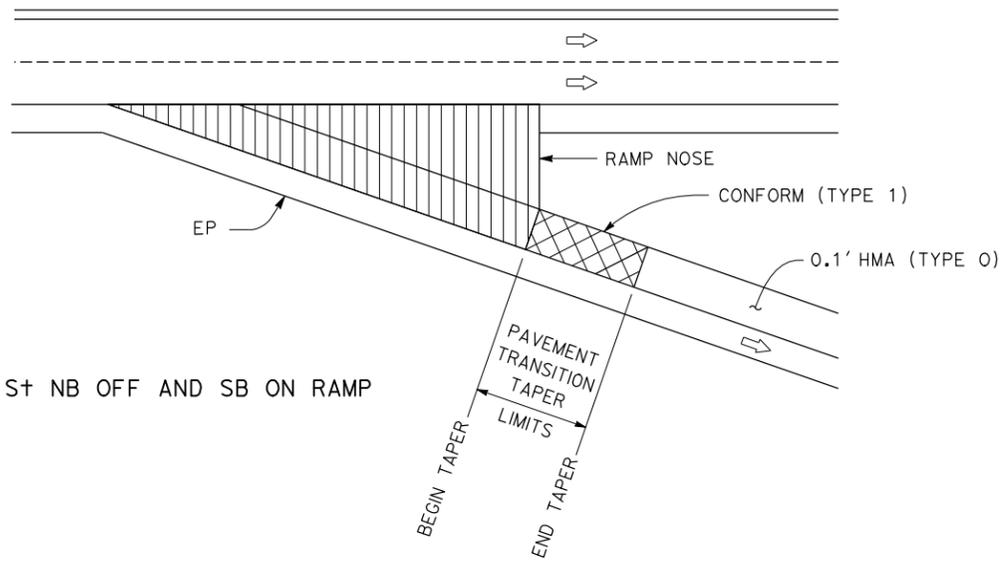
-  0.25' REPLACE AC SURFACING
-  CONFORM GRIND
-  DIRECTION OF TRAFFIC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	9	26

REGISTERED CIVIL ENGINEER	DATE
<i>Brian D. Toepfer</i>	3-2-11
PLANS APPROVAL DATE	
	3-2-11

REGISTERED PROFESSIONAL ENGINEER	
BRIAN D. TOEPFER	
No. C46278	Exp. 12-31-12
CIVIL	
STATE OF CALIFORNIA	

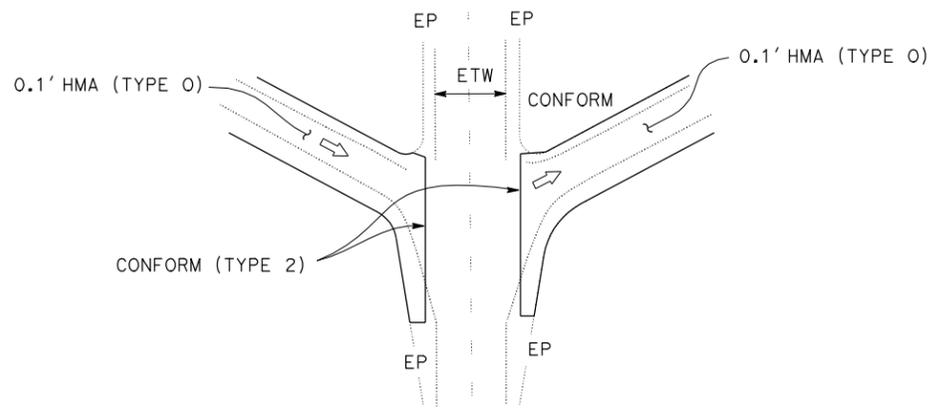
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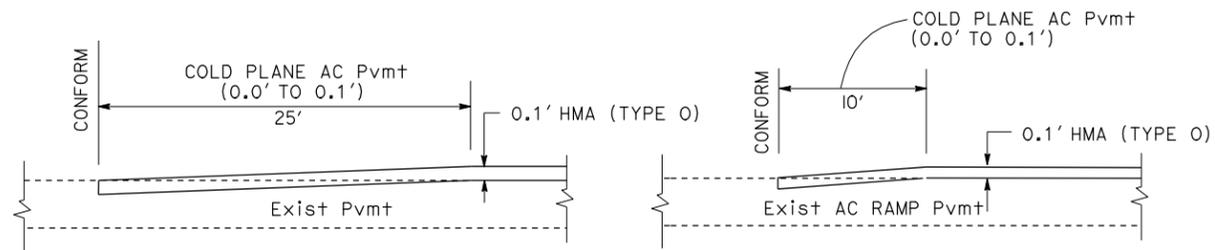
EAST 20th St NB OFF AND SB ON RAMP

PAVEMENT TRANSITION TAPER LIMITS (RAMPS)

SKYWAY, NB OFF AND NB ON FROM EB SKYWAY
EAST 20th St, NB ON AND SB OFF RAMPS
HWY 99/32, NB OFF AND SB ON RAMPS
EAST Ave, NB AND SB ON AND OFF RAMPS
EATON Rd, NB AND SB ON AND OFF RAMPS



ON AND OFF RAMPS



CONFORM (TYPE 1) - PROFILE

CONFORM (TYPE 2) - PROFILE

PAVEMENT TRANSITION TAPER (RAMPS)

CONSTRUCTION DETAILS

NO SCALE

C-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE
FUNCTIONAL SUPERVISOR
BRIAN TOEPFER
DESIGNED BY
CHECKED BY
BRIAN KORTE
REVISED BY
DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

REVISOR

DATE

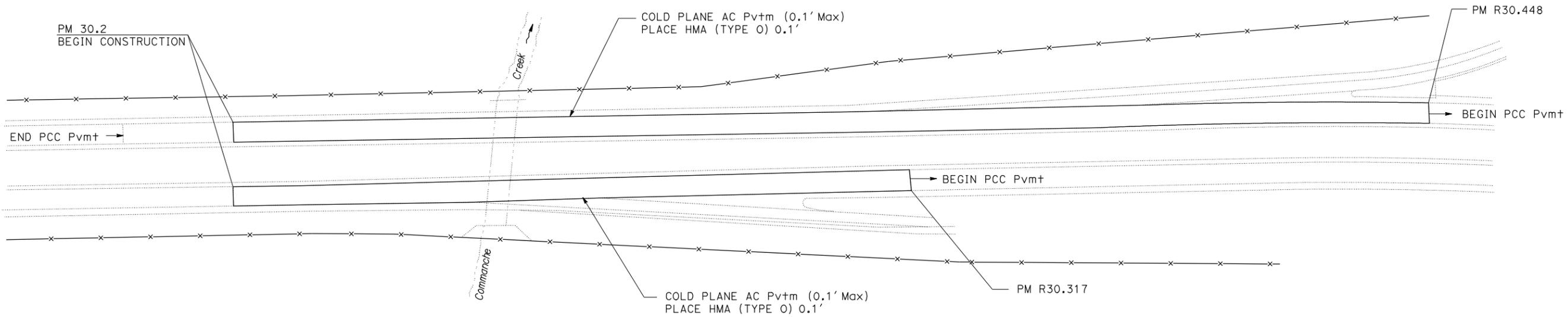
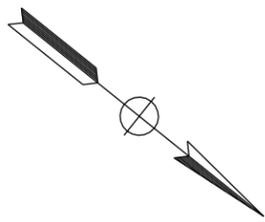
BY

DATE

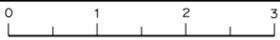
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	10	26

REGISTERED CIVIL ENGINEER *Brian D. Toepfer* DATE 3-2-11
 PLANS APPROVAL DATE 3-2-11
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REGISTERED PROFESSIONAL ENGINEER
 BRIAN D. TOEPFER
 No. C46278
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA



CONSTRUCTION DETAILS
 NO SCALE
C-8



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	G20-1 [Spec] (8)		84" x 42"	ROAD WORK NEXT 8 MILES	2 - 4" x 6"	2
B		C40(Mod)	96" x 60"	TRAFFIC FINES DOUBLED IN WORK ZONES	2 - 6" x 6"	1
C	G20-1 [Spec] (8)		60" x 30"	ROAD WORK NEXT 8 MILES	2 - 4" x 4"	1
D		C40(Mod)	72" x 42"	TRAFFIC FINES DOUBLED IN WORK ZONES	2 - 4" x 6"	1
E	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	15
F	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	14
G		C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	3
H	W20-1	C23	48" x 48"	ROAD WORK AHEAD	SEE NOTES 2 AND 3	2

NOTES:

1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. INSTALL PANEL ON EXISTING OVERHEAD SIGN POST (HS-42) FEFT.
3. INSTALL PANEL ON EXISTING OVERHEAD SIGN POST (HS-45) FWBT.
4. THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

SIGN DETAILS

(A) G20-1 [Spec] (8)
ROAD WORK NEXT 8 MILES
 84"x42"
 8" C SERIES LETTERS
 RETROREFLECTIVE ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER.

(B) C40(Mod) <CA>
TRAFFIC FINES DOUBLED IN WORK ZONES
 96"x60"
 8" D SERIES LETTERS
 RETROREFLECTIVE WHITE BACKGROUND WITH BLACK LEGEND AND BORDER.

(C) G20-1 [Spec] (8)
ROAD WORK NEXT 8 MILES
 60"x30"
 6" C SERIES LETTERS
 RETROREFLECTIVE ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER.

(D) C40(Mod) <CA>
TRAFFIC FINES DOUBLED IN WORK ZONES
 72"x42"
 6" D SERIES LETTERS
 RETROREFLECTIVE WHITE BACKGROUND WITH BLACK LEGEND AND BORDER.

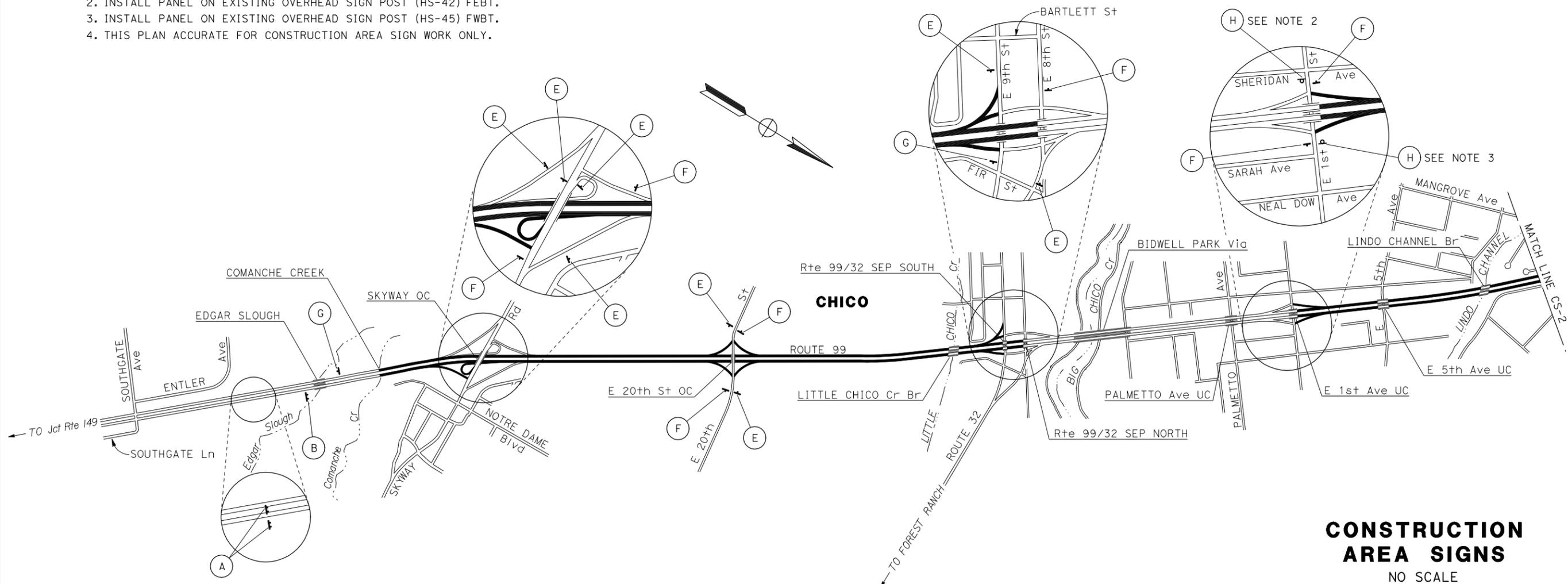
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	11	26

REGISTERED CIVIL ENGINEER *Jeffrey S. Jewett* 3-2-11 DATE
 PLANS APPROVAL DATE 3-2-11
 No. 49233 Exp. 9-30-12 CIVIL
 STATE OF CALIFORNIA

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

LEGEND

- (X) CONSTRUCTION AREA SIGN LETTER
- 1 SIGN - SINGLE POST
- 2 SIGN - TWO POST
- 4 SIGN - SSBM
- <CA> CALIFORNIA SIGN CODE



CONSTRUCTION AREA SIGNS
 NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 TRAFFIC
 FUNCTIONAL SUPERVISOR LAURIE LAMMERT
 JACK KEMMERLY
 JEFF JEWETT
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR
 LAURIE LAMMERT

CALCULATED-DESIGNED BY
 CHECKED BY

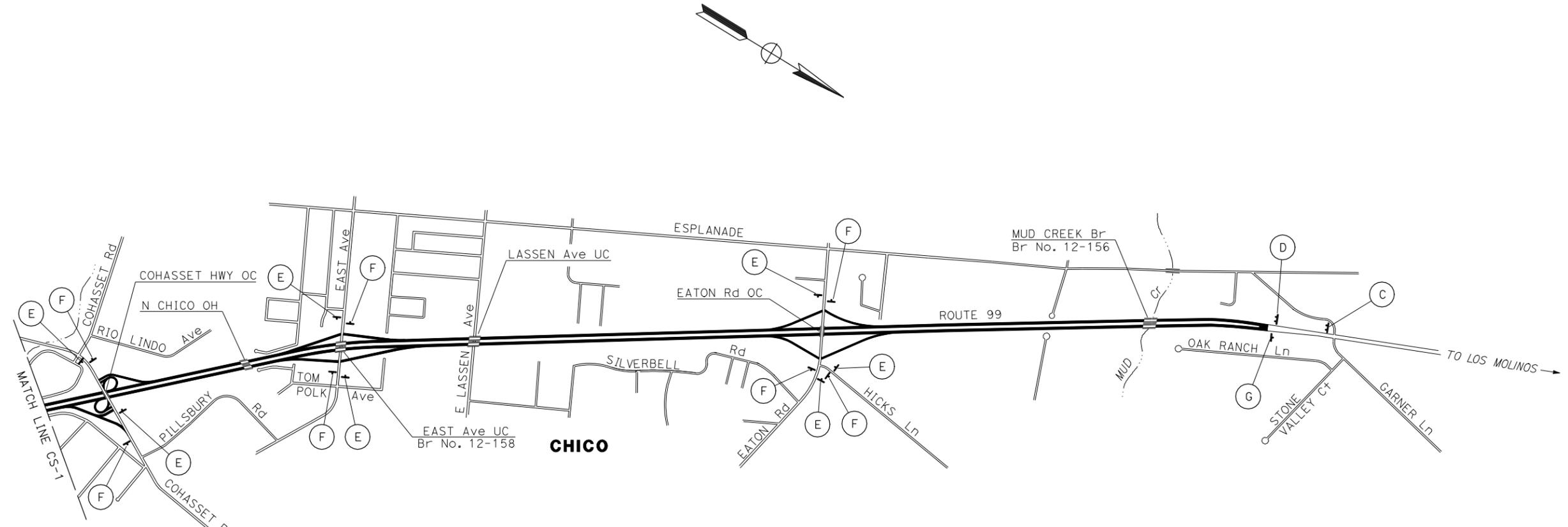
JACK KEMMERLY
 JEFF JEWETT

REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	12	26

Jeffrey Jewett
 REGISTERED CIVIL ENGINEER DATE 3-2-11
 PLANS APPROVAL DATE 3-2-11

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.



CONSTRUCTION AREA SIGNS
 NO SCALE

CS-2

NOTE: THIS PLAN ACCUARATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FUNCTIONAL SUPERVISOR
LAURIE LAMMERT

CALCULATED-DESIGNED BY
CHECKED BY

JACK KEMMERLY
JEFF JEWETT

REVISED BY
DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	13	26

REGISTERED CIVIL ENGINEER *Jeffrey S. Jewett* DATE 3-2-11
 PLANS APPROVAL DATE 3-2-11
 No. 49233 Exp. 9-30-12
 CIVIL ENGINEER
 STATE OF CALIFORNIA

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

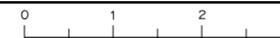
PAVEMENT DELINEATION QUANTITIES

DESCRIPTION	4" THERMOPLASTIC TRAFFIC STRIPE				4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	8" THERMOPLASTIC TRAFFIC STRIPE			PAVEMENT MARKER (RETROREFLECTIVE)				PAVEMENT MARKER (NON-REFLECTIVE)	
	DETAIL NUMBER				DETAIL NUMBER	DETAIL NUMBER	DETAIL NUMBER			TYPE C (EA)	TYPE D (EA)	TYPE G (EA)	TYPE H (EA)	TYPE AY (EA)	
	25 (LF)	25A (LF)	27B (LF)	28/30 (LF)	9 (LF)	12 (LF)	14A (LF)	36 (LF)	36A (LF)						38 (LF)
NB MAINLINE ROUTE 99	32,077		33,880	138	1,250	30,137	1,217	2,745	1,664		26	14	841	669	58
SB MAINLINE ROUTE 99	32,013		33,240	138	797	30,424	1,589	2,282	1,551		34	14	735	668	58
NB EXIT RAMP TO PARK AVENUE		1,040	1,045							480			21	44	
NB ENTRANCE RAMP FROM EB PARK AVENUE		850	750		365								9	36	
NB EXIT RAMP TO E 20th STREET		1,125	1,145							1,105			47	48	
SB ENTRANCE RAMP FROM E 20th STREET		965	975		520								12	41	
NB ENTRANCE RAMP FROM E 20th STREET		960	970		525								12	41	
SB EXIT RAMP TO E 20th STREET		1,095	1,125		405					1,060			54	47	
NB EXIT RAMP TO ROUTE 32		610	610							150			7	26	
SB ENTRANCE RAMP FROM ROUTE 32		610	690							430			19	26	
NB ENTRANCE RAMP FROM E 1st STREET		640	620							120			6	28	
SB EXIT RAMP TO E 1st STREET		660	660							165			8	29	
NB EXIT RAMP TO MANGROVE Ave/COHASSET Rd		1,435	1,610							700			30	61	
NB ENTRANCE RAMP FROM MANGROVE Ave/COHASSET Rd		650	625											28	
SB ENTRANCE RAMP FROM COHASSET Rd/MANGROVE Ave		660	645							180			9	29	
SB EXIT RAMP TO COHASSET Rd/MANGROVE Ave		920	920							145			7	39	
NB EXIT RAMP TO EAST AVENUE		800	785							270			12	34	
SB ENTRANCE RAMP FROM EAST AVENUE		780	800							300			14	34	
NB ENTRANCE RAMP FROM EAST AVENUE		660	670											29	
SB EXIT RAMP TO EAST AVENUE		720	720							235			11	31	
NB EXIT RAMP TO EATON ROAD		780	790							235			11	34	
SB ENTRANCE RAMP FROM EATON ROAD		880	925		90					60			7	38	
NB ENTRANCE RAMP FROM EATON ROAD		900	925											39	
SB EXIT RAMP TO EATON ROAD		775	800							200			9	33	
SUBTOTAL	64,090	18,515	85,925	276	3,952	60,561	2,806	5,027	3,215	5,835	60	28	1,881	2,132	116
TOTAL		168,806			3,952	63,367		14,077					4,101		116

NOTE: THE DETAIL 30 SHALL BE PLACED ON THE DETAIL 28.

PAVEMENT DELINEATION QUANTITIES

PDQ-1



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



TRAFFIC

FUNCTIONAL SUPERVISOR

LAURIE LAMMERT

CALCULATED-DESIGNED BY

CHECKED BY

JACK KEMMERLY

JEFF JEWETT

REVISED BY

DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	14	26

Jeffrey Jewett
 REGISTERED CIVIL ENGINEER DATE 3-2-11
 3-2-11
 PLANS APPROVAL DATE

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

PAVEMENT MARKING QUANTITIES

DESCRIPTION	THERMOPLASTIC PAVEMENT MARKING											
	TYPE I (24') ARROW (SQFT)	TYPE II ARROW (SQFT)	TYPE III ARROW (SQFT)	TYPE III (B) ARROW (SQFT)	TYPE V ARROW (SQFT)	TYPE VI ARROW (SQFT)	SIGNAL (SQFT)	STOP (SQFT)	AHEAD (SQFT)	LIMIT LINE (SQFT)	CROSSWALK (SQFT)	SUBTOTAL (SQFT)
NB MAINLINE ROUTE 99					66	84						150
SB MAINLINE ROUTE 99					66							66
NB EXIT RAMP TO PARK AVENUE			210	219	33		32		31	60		585
NB EXIT RAMP TO E 20th STREET		135	252		33		32		31		130	613
SB ENTRANCE RAMP FROM E 20th STREET	62					126					95	283
NB ENTRANCE RAMP FROM E 20th STREET	62					126					135	323
SB EXIT RAMP TO E 20th STREET		135	294		33		32		31		175	700
NB EXIT RAMP TO ROUTE 32			84		99		32		31		85	331
SB ENTRANCE RAMP FROM ROUTE 32	62										95	157
NB ENTRANCE RAMP FROM E 1st STREET	62										120	182
SB EXIT RAMP TO E 1st STREET		45	42		66		32		31		110	326
NB EXIT RAMP TO MANGROVE Ave/COHASSET Rd	31		126		99		32		31		150	469
NB ENTRANCE RAMP FROM MANGROVE Ave/COHASSET Rd	62										130	192
SB EXIT RAMP TO COHASSET Rd/MANGROVE Ave			168		33		32		31	50		314
SB ENTRANCE RAMP FROM COHASSET Rd/MANGROVE Ave	62											62
NB EXIT RAMP TO EAST AVENUE		90	84		33		32		31	60		330
SB ENTRANCE RAMP FROM EAST AVENUE	62											62
NB ENTRANCE RAMP FROM EAST AVENUE	31										125	156
SB EXIT RAMP TO EAST AVENUE		45	42		66		32		31		130	346
NB EXIT RAMP TO EATON ROAD		90	84		33			66	31		120	424
SB ENTRANCE RAMP FROM EATON ROAD	62										110	172
NB ENTRANCE RAMP FROM EATON ROAD	31											31
SB EXIT RAMP TO EATON ROAD		90	84		33			66	31	60		364
TOTAL												6,638

PAVEMENT DELINEATION QUANTITIES

PDQ-2



REPLACE CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)

DIRECTION	LOCATION		REPLACE CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)	
	BEGIN PM	LANE No.	LF (N)	CY
NB	30.34	#2 LANE	260	77.4
NB	30.44	#2 LANE	212	63.1
NB	30.489	#2 LANE	106	31.6
NB	30.528	#2 LANE	220	65.5
NB	30.64	#2 LANE	100	29.8
NB	30.678	#2 LANE	100	29.8
NB	30.736	#2 LANE	180	53.6
NB	30.8	#2 LANE	264	78.6
NB	31.069	#2 LANE	217	64.6
NB	31.131	#2 LANE	64	19.1
NB	31.155	#2 LANE	148	44.1
NB	31.345	#2 LANE	90	26.8
NB	31.379	#2 LANE	100	29.8
NB	31.407	#2 LANE	74	22.0
NB	31.426	#2 LANE	159	47.3
NB	31.54	#2 LANE	64	19.1
NB	31.557	#2 LANE	106	31.6
NB	31.589	#2 LANE	48	14.3
NB	31.617	#2 LANE	58	17.3
NB	31.733	#2 LANE	48	14.3
NB	31.775	#2 LANE	95	28.3
NB	31.89	#2 LANE	159	47.3
NB	31.934	#2 LANE	69	20.5
NB	31.953	#2 LANE	48	14.3
NB	31.98	#2 LANE	58	17.3
NB	32.071	#2 LANE	217	64.6
NB	32.102	#1 LANE	138	41.1
NB	35.527	#2 LANE	57	17.0
NB	36.963	#2 LANE	143	42.6
NB	37.117	#2 LANE	63	18.8
NB	37.296	#2 LANE	50	14.9
SB	31.328	#2 LANE	53	15.8
SB	31.53	#2 LANE	143	42.6
SB	31.593	#2 LANE	264	78.6
SB	31.672	#2 LANE	106	31.6
SB	31.888	#2 LANE	163	48.5
SB	31.951	#2 LANE	258	76.8
SB	33.316	#1 LANE	53	15.8
SB	33.568	#2 LANE	153	45.6
SB	33.64	#1 LANE	48	14.3
SB	34.136	#2 LANE	78	23.2
SB	34.344	#1 LANE	85	25.3
SB	34.457	#1 LANE	440	131.0
SB	34.528	#2 LANE	300	89.3
SB	34.634	#2 LANE	100	29.8
SB	34.916	#2 LANE	40	11.9
SB	35.267	#2 LANE	75	22.3
SB	35.624	#2 LANE	49	14.6
SB	35.771	#2 LANE	63	18.8
SB	35.891	#2 LANE	49	14.6
SB	36.35	#2 LANE	48	14.3
SB	36.622	#2 LANE	50	14.9
SB	36.912	#2 LANE	49	14.6
TOTAL			1900.4	

RAMP ITEMS

LOCATION	DIRECTION	* COLD PLANE AC PAVEMENT	* REPLACE AC SURFACING	* CRACK TREATMENT	* HMA (TYPE O)	TACK COAT
		SQYD	CY	LNMI	TON	TON
SKYWAY OC RAMPS	NB OFF	3,222	240	.25	183	2.7
	NB ON FROM EB SKYWAY	3,778	102	.22	214	3.1
20th St OC RAMPS	NB OFF	4,722	91	.40	268	3.9
	NB ON	3,389	40	.20	192	2.8
	SB ON	4,222	39	.28	240	3.6
	SB OFF	5,000	125	.47	284	4.2
Hwy 99/32 SEPARATION	NB OFF	1,700	23	.14	96	1.4
	SB ON	2,100	34	.16	119	1.8
EAST FIRST UC RAMPS	NB ON	2,195	22	.14	124	1.8
	SB OFF	1,789	22	.14	102	1.5
COHASSET OC RAMPS	NB OFF	4,450	148	.35	252	3.7
	NB ON	1,800	4	.12	102	1.5
	SB ON	2,084			118	1.7
EAST Ave UC RAMPS	SB OFF	2,756	28	.18	156	2.3
	NB OFF	2,333	120	.20	133	2.0
	NB ON	2,333	14	.14	133	2.0
	SB ON	2,389	120	.20	136	2.0
EATON Rd OC RAMPS	SB OFF	2,222	120	.21	126	1.9
	NB OFF		17	.15		
	NB ON		17	.18		
	SB ON		14	.18		
	SB OFF		98	.16		
TOTAL		52,484	1,022	4.47	2,978	43.9

* SEE ROADWAY ITEMS TABLES FOR GRAND TOTAL

ROADWAY ITEMS

LOCATION	DIRECTION	LANE NUMBER	(N)	(N)	(N)	GRIND EXISTING CONCRETE PAVEMENT (MAINLINE)	REPLACE AC SURFACING	ASPHALTIC EMULSION (FOG SEAL COAT)	CRACK TREATMENT
			LENGTH	R+ SHOULDER WIDTH	L.T SHOULDER WIDTH				
	NB/SB		LF	LF	LF	SQYD	CY	TON	LNMI
MAINLINE, INSIDE & OUTSIDE SHOULDERS	NB	1,2	6,236	8	5	16,628	858		2.362
	SB	1,2	5,544	8	5	14,784	918		2.1
MAINLINE, INSIDE & OUTSIDE SHOULDERS	NB/SB		4,763	8	5		541	4.25	3.608
	NB/SB		22,176	8	5		1,651	17.5	16.8
TOTAL						31,412	3,968	21.75	24.9
GRAND TOTAL							5,406		29.37

NOTES:

- NO FOG SEAL ON MAINLINE PAVEMENT.
- (N) = NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	15	26

REGISTERED CIVIL ENGINEER *Brian D. Toepfer* DATE 3-2-11

3-2-11
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.

BRIAN D. TOEPFER
No. C46278
Exp. 12-31-12
CIVIL ENGINEER
STATE OF CALIFORNIA

REPAIR SPALLED JOINTS

LIMITS (PM)	SQYD
30.2/R32.4 - R33.3/T37.5	10

SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)

LOCATION	DIRECTION	(Sta)
PM R36.305/T37.5	NB/SB	242

ROADWAY ITEMS

LOCATION	DIRECTION	(N)	COLD PLANE AC PAVEMENT	HMA (TYPE O)	TACK COAT
		LENGTH			
	NB/SB	LF	SQYD	TON	TON
MAINLINE	NB	540	1,440	82	1.2
MAINLINE	SB	1,310	3,494	117	3.0
MAINLINE INSIDE & OUTSIDE SHOULDER	NB	861	3,204	182	2.7
MAINLINE INSIDE & OUTSIDE SHOULDER	NB/SB	132	998	57	0.8
TOTAL			9,136	438	7.7
GRAND TOTAL			61,620	3,416	51.6

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC ELECTRICAL DESIGN MARYSVILLE
 FUNCTIONAL SUPERVISOR
 STEVEN BLOCK
 CHECKED BY
 MARY ANN HUDSPETH
 REVISIONS: 11-08-10, 03-03-2011

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	16	26

REGISTERED CIVIL ENGINEER: *Mary Ann Hudspeth* No. 17245
 DATE: 3-2-11
 PLANS APPROVAL DATE: 3-2-11
 Exp. 06-30-12
 ELECTRICAL
 STATE OF CALIFORNIA

QUANTITIES

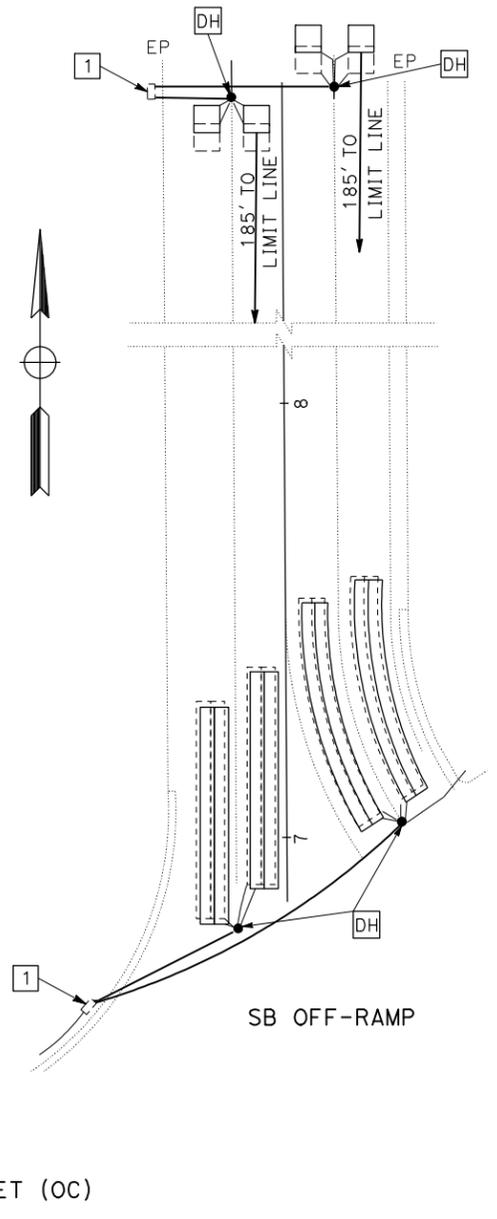
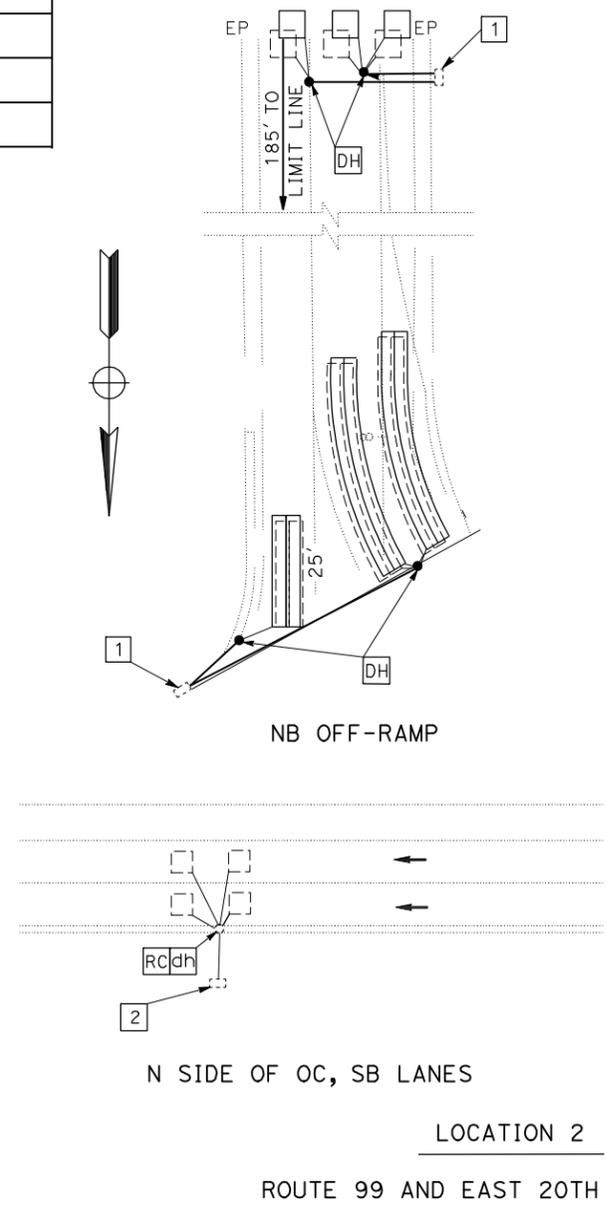
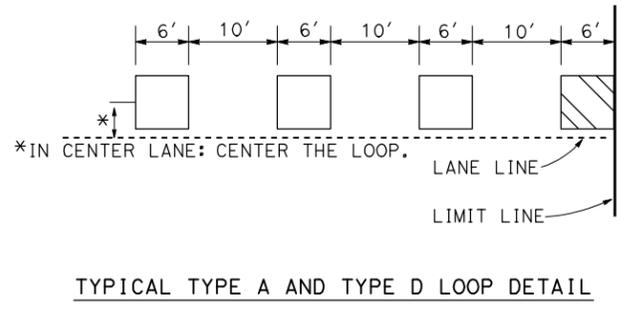
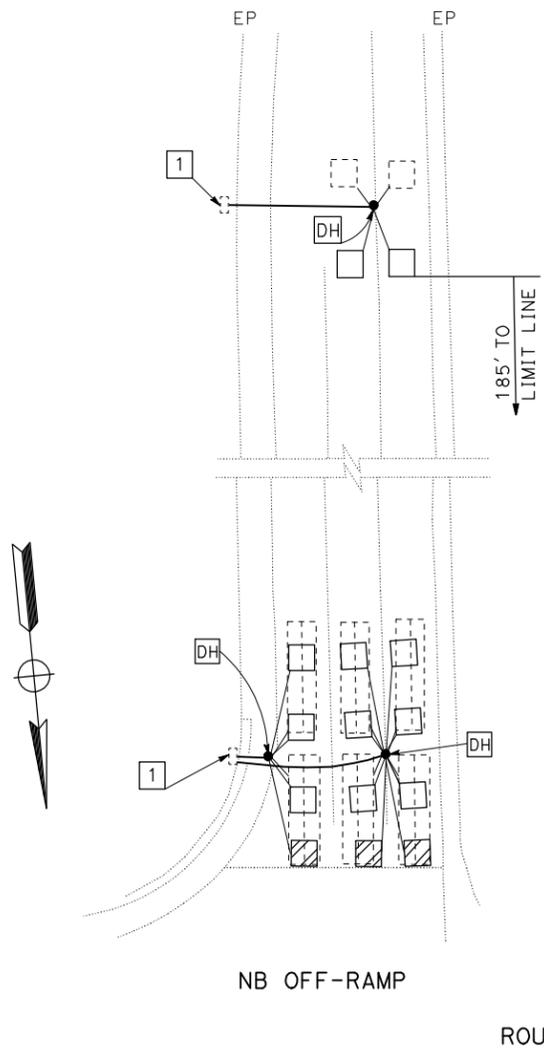
LOCATION	DESCRIPTION	POST MILE	HANDHOLE	TYPE A LOOPS	TYPE C LOOPS (6' X 50')	TYPE C LOOPS (6' X 25')	TYPE D LOOPS
1	ROUTE 99 AND SKYWAY (OC), NB OFF-RAMP	30.60	3	11			3
2	ROUTE 99 AND EAST 20TH St (OC), NB OFF-RAMP	31.30	4	3	2	1	
	ROUTE 99 AND EAST 20TH St (OC), N SIDE OF OC, SB MAIN LINE TRAFFIC COUNT STATION	31.64	RC	AB			
	ROUTE 99 AND EAST 20TH St (OC), SB OFF-RAMP	31.70	4	4	4		
3	ROUTE 99 AND EASTBOUND ROUTE 32 (9TH St), NB OFF-RAMP	32.25	2	2	2		
4	ROUTE 99 AND INTERSECTION OF EAST FIRST Ave, SB OFF-RAMP	33.17	2	2	2		
5	ROUTE 99 AND INTERSECTION OF COHASSET Rd, NB OFF-RAMP	34.10	2	1 (6'x13')		4	
	ROUTE 99 AND INTERSECTION OF COHASSET Rd, SB OFF-RAMP	34.40	3	2		3	
6	ROUTE 99 AND INTERSECTION OF EAST Ave, NB OFF-RAMP	34.78	2	2	2		
	ROUTE 99 AND INTERSECTION OF EAST Ave, SB OFF-RAMP	35.08	2	2	2		

PROJECT NOTES (THIS SHEET ONLY):

- EXISTING LOOP CONDUCTORS, **dh** AND EXISTING CONDUIT BETWEEN **dh** AND pb. EXISTING PULL BOX AND/OR HANDHOLE LOCATIONS ARE DIFFERENT IN EACH LOCATION. **CB** AND **SC**.
- EXISTING MAIN LINE LOOP CONDUCTORS AND CONDUIT BETWEEN **dh** AND pb. **RC** pb AND DETECTOR LEAD-IN CABLES TO THE TYPE H CABINET.

ABBREVIATIONS:

VIVDS - VIDEO IMAGE VEHICLE DETECTION SYSTEM



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

DETECTOR LOOP

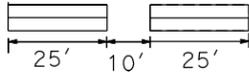
NO SCALE

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC ELECTRICAL DESIGN MARYSVILLE

PROJECT NOTES (THIS SHEET ONLY):

1 RC EXISTING LOOP CONDUCTORS, dh AND EXISTING CONDUIT BETWEEN dh AND pb. EXISTING PULL BOX AND/OR HANDHOLE LOCATIONS ARE DIFFERENT IN EACH LOCATION. CB AND SC.



TYPICAL 25' TYPE C LOOP DETECTOR

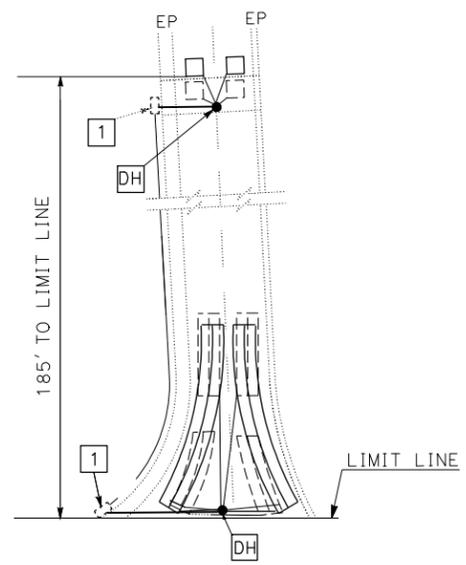
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	38.2/R32.4 R33.3/T37.5	17	26

Mary Ann Hudspeth 3-2-11
 REGISTERED CIVIL ENGINEER DATE

3-2-11
 PLANS APPROVAL DATE

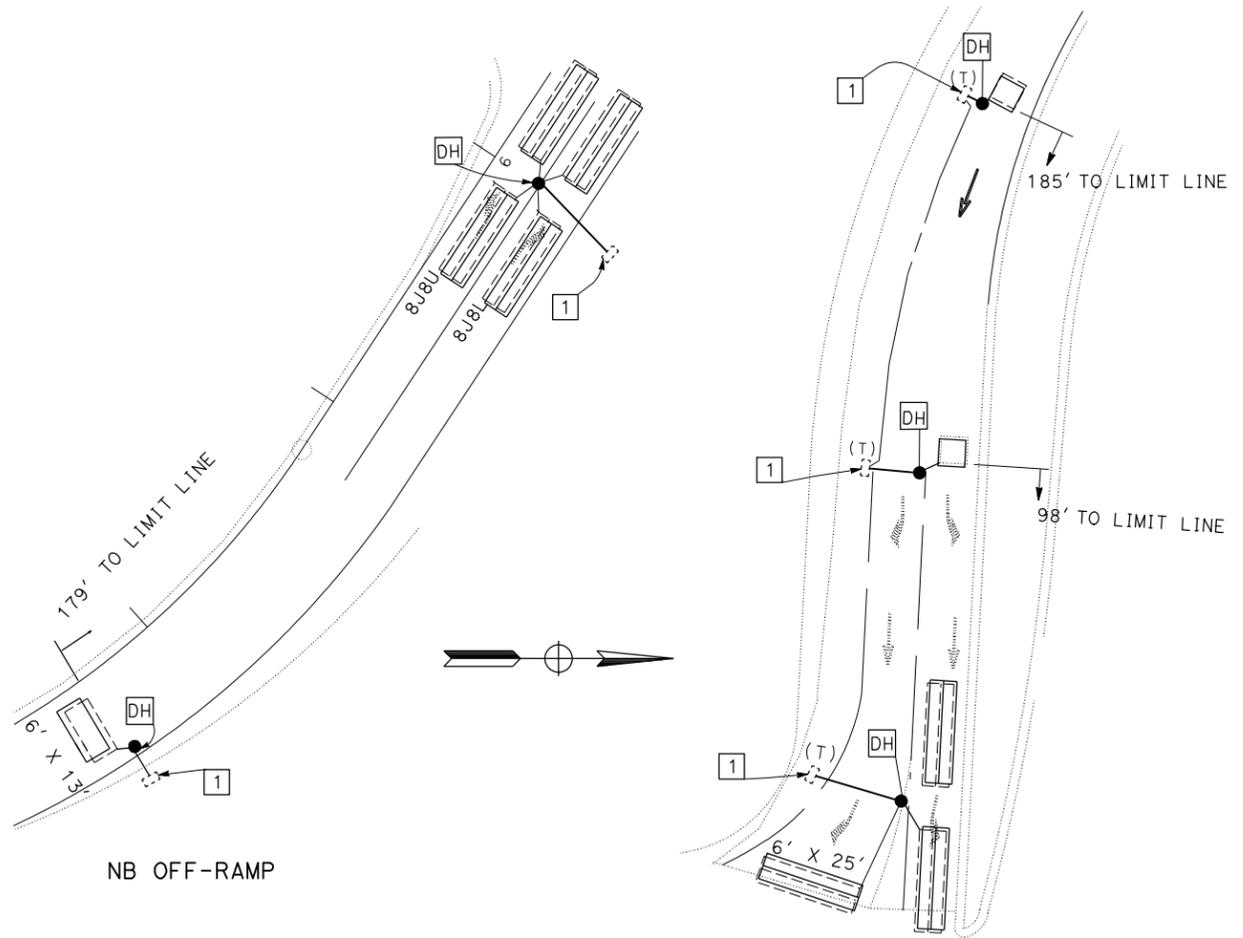
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 MARY ANN HUDSPETH
 No. 17245
 Exp. 06-30-12
 ELECTRICAL
 STATE OF CALIFORNIA



RAMP ELECTRICAL DETAIL

- LOCATION 3: Rte 99 AND EB Rte 32 (9TH St), NB OFF-RAMP
- LOCATION 4: Rte 99 AND EAST FIRST Ave, SB OFF-RAMP
- LOCATION 6: Rte 99 AND EAST Ave, NB OFF-RAMP
 Rte 99 AND EAST Ave, SB OFF-RAMP



LOCATION 5
 ROUTE 99 AND COHASSET Rd

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

DETECTOR LOOP

NO SCALE

E-2



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	18	26

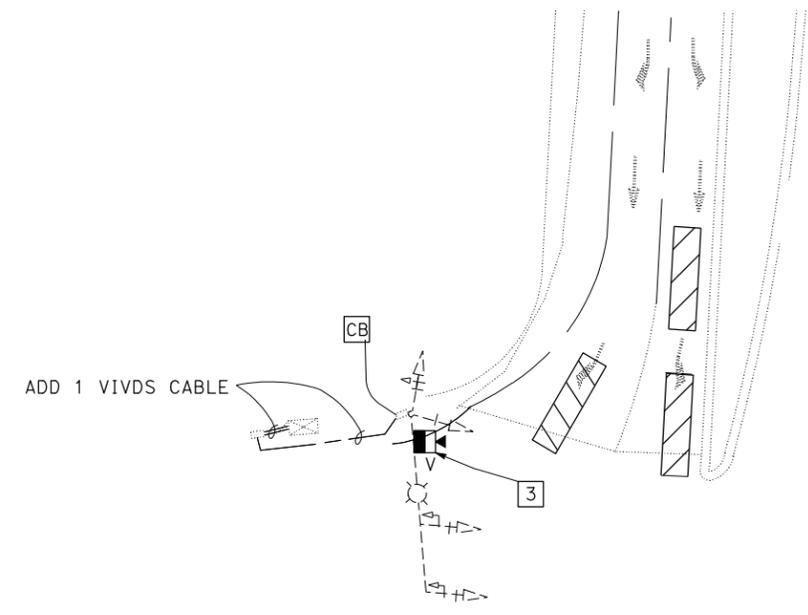
<i>Mary Ann Hudspeth</i>		3-2-11
REGISTERED CIVIL ENGINEER	DATE	
3-2-11		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER	
MARY ANN HUDSPETH	
No. 17245	
Exp. 06-30-12	
ELECTRICAL	
STATE OF CALIFORNIA	

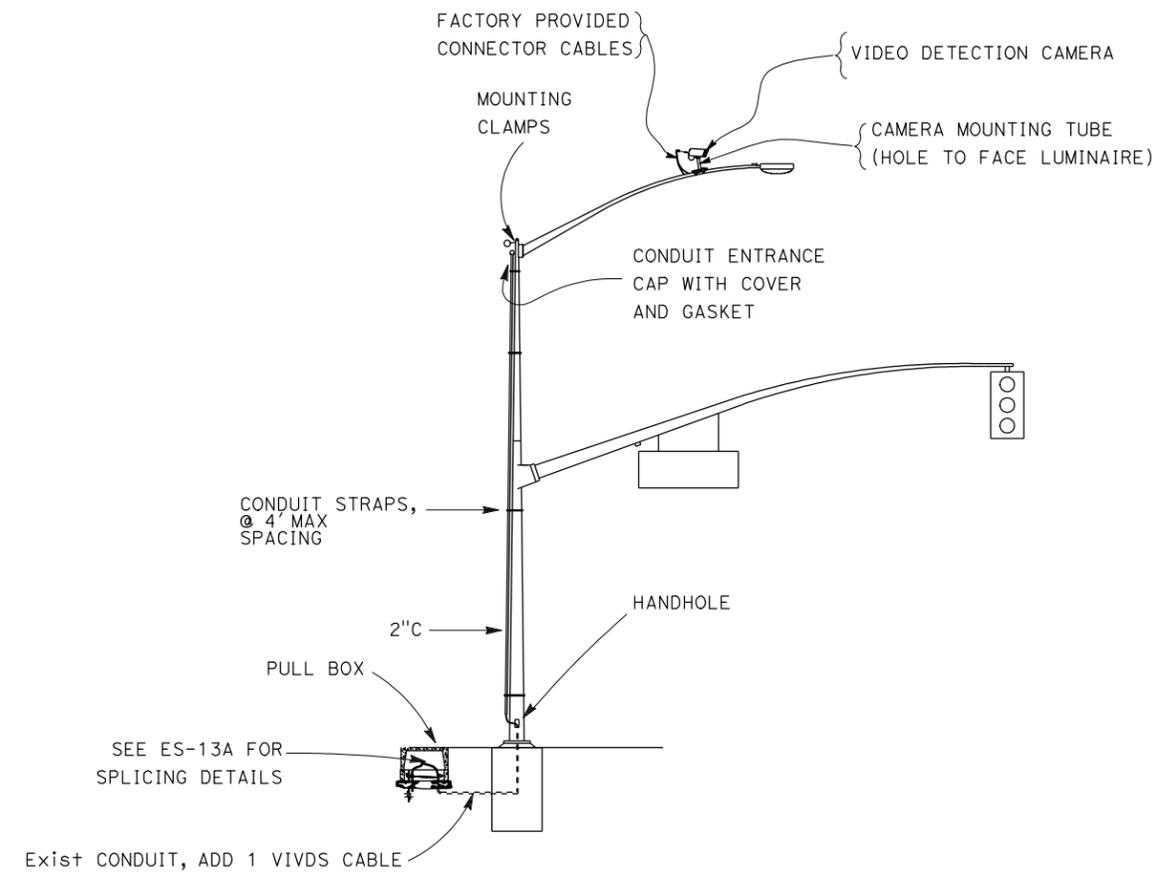
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PROJECT NOTES (THIS SHEET ONLY):

- 3 VIDEO DETECTION ZONES SHALL EMULATE EXISTING LIMIT LINE DETECTION. RC TEMPORARY VIVDS AFTER RESIDENT ENGINEER ACCEPTS DETECTOR LOOPS AS FUNCTIONAL.



TYPICAL RAMP ELECTRICAL DETAIL



TYPICAL DETAIL

**TEMPORARY VIDEO IMAGE VEHICLE DETECTION SYSTEM
(STAGE CONSTRUCTION - LOCATIONS 1 THROUGH 6)**

NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC ELECTRICAL DESIGN MARYSVILLE

FUNCTIONAL SUPERVISOR
STEVEN BLOCK

CHECKED BY
MARY ANN HUDSPETH

DESIGNED BY
ZAHRA NIKNAFS

REVISOR
DATE

USERNAME => s130875
DGN FILE => 03000006051ua003.dgn

RELATIVE BORDER SCALE IS IN INCHES

UNIT 0402

PROJECT NUMBER & PHASE

03000006051

E-3

DATE PLOTTED => 03-MAR-2011
TIME PLOTTED => 13:57

NOTE:

1. Tie bars, dowel bars, and reinforcement are not shown in joint seal details, see Revised Standard Plans RSP P1, RSP P3, RSP P10, RSP P35, RSP P45, or RSP P46 as applicable.

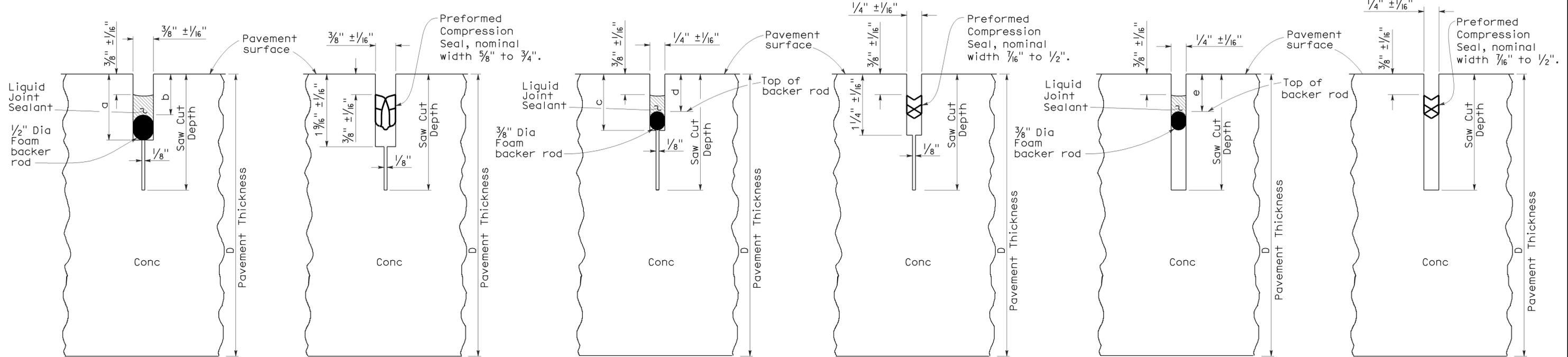
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	19	26

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 No. C49042
 Exp. 9-30-10
 CIVIL
 STATE OF CALIFORNIA

May 15, 2009
 PLANS APPROVAL DATE

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To accompany plans dated 3-2-11



LIQUID SEALANT

COMPRESSION SEAL

LIQUID SEALANT

COMPRESSION SEAL

LIQUID SEALANT

COMPRESSION SEAL

TYPE A1

TYPE A2

TYPE B

Transverse Contraction Joints

Longitudinal Contraction Joints

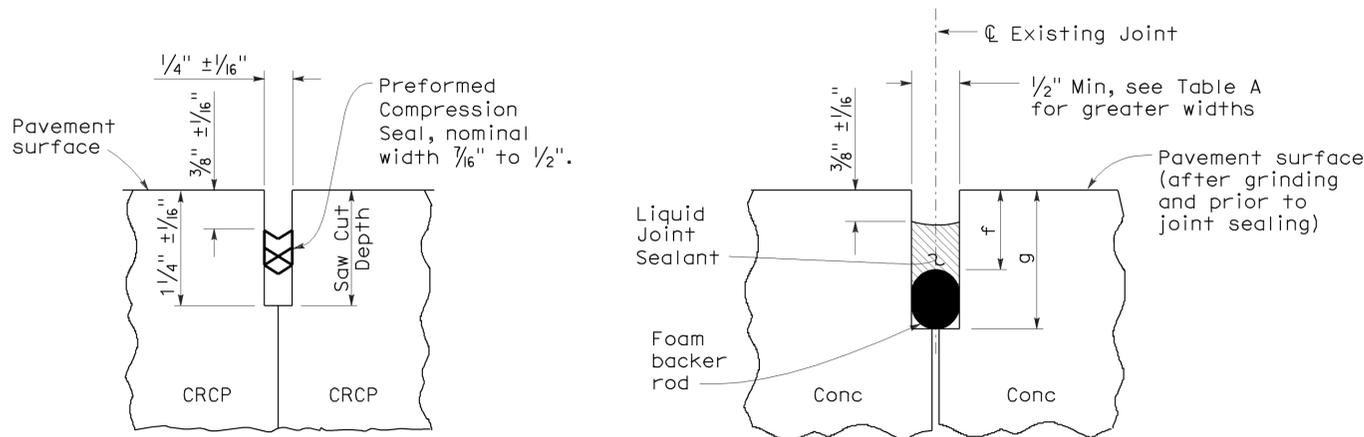
Longitudinal or Transverse Contraction Joint

LIQUID SEALANT RESERVOIR DEPTH

LIQUID SEALANT MATERIAL	3/8" Joint Width Type A1		1/4" Joint Width Type A2		1/4" Joint Width Type B
	DIMENSION		DIMENSION		DIMENSION
	a	b	c	d	e
SILICONE	1" ± 1/16"	5/8" ± 1/16"	15/16" ± 1/16"	9/16" ± 1/16"	9/16" ± 1/16"
ASPHALT RUBBER	1 3/16" ± 1/16"	3/4" ± 1/16"	1 1/16" ± 1/16"	11/16" ± 1/16"	11/16" ± 1/16"

TABLE A (TYPE R JOINT)

Sawn Joint Width	Backer Rod Diameter ± 1/16"	DIMENSION "f"	DIMENSION "g"
1"	1 5/16"	7/8"	2 1/4"
7/8"	1 3/16"	13/16"	2"
3/4"	1"	3/4"	1 3/4"
5/8"	7/8"	11/16"	1 1/2"
1/2"	11/16"	5/8"	1 1/4"



COMPRESSION SEAL

LIQUID SEALANT

TYPE C

TYPE R

Transverse and Longitudinal Construction Joints (For CRCP)

Retrofit Transverse and Longitudinal Joints

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CONCRETE PAVEMENT-
JOINT DETAILS**

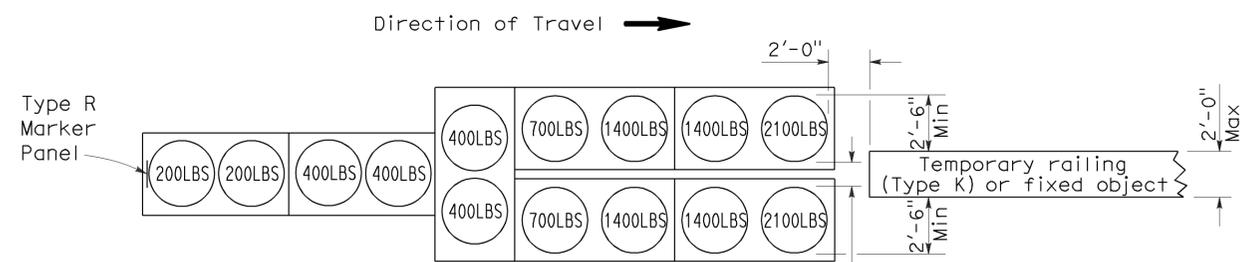
NO SCALE

RSP P20 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P20
DATED MAY 1, 2006 - PAGE 128 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P20

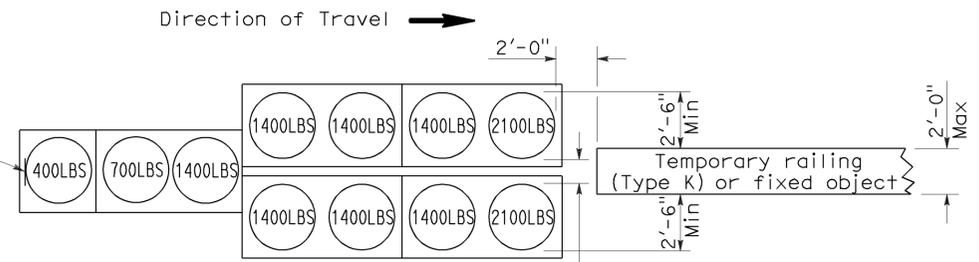
2006 REVISED STANDARD PLAN RSP P20

To accompany plans dated 3-2-11



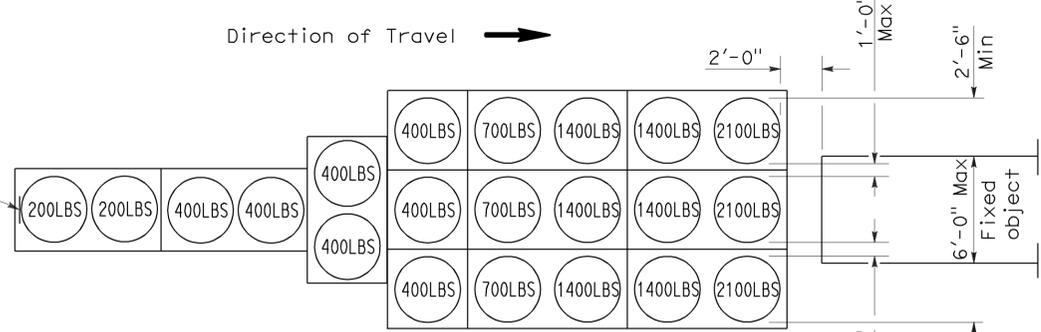
ARRAY 'TU14'

Approach speed 45 mph or more



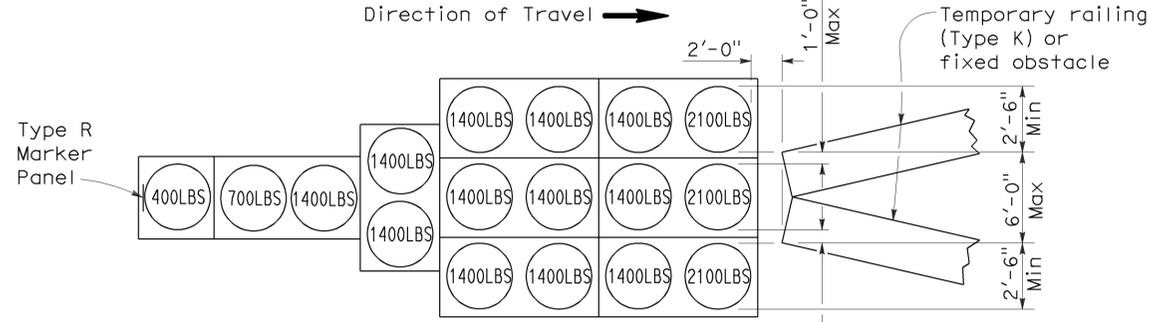
ARRAY 'TU11'

Approach speed less than 45 mph



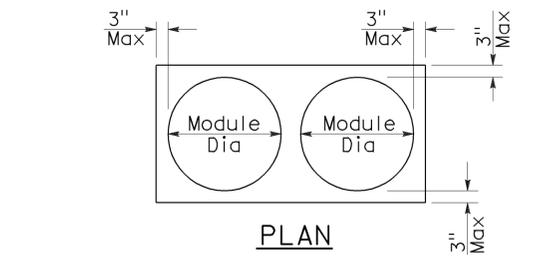
ARRAY 'TU21'

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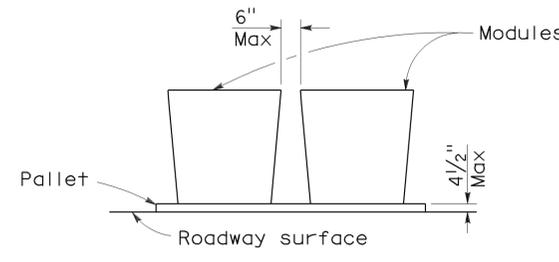


ARRAY 'TU17'

Approach speed less than 45 mph



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	21	26

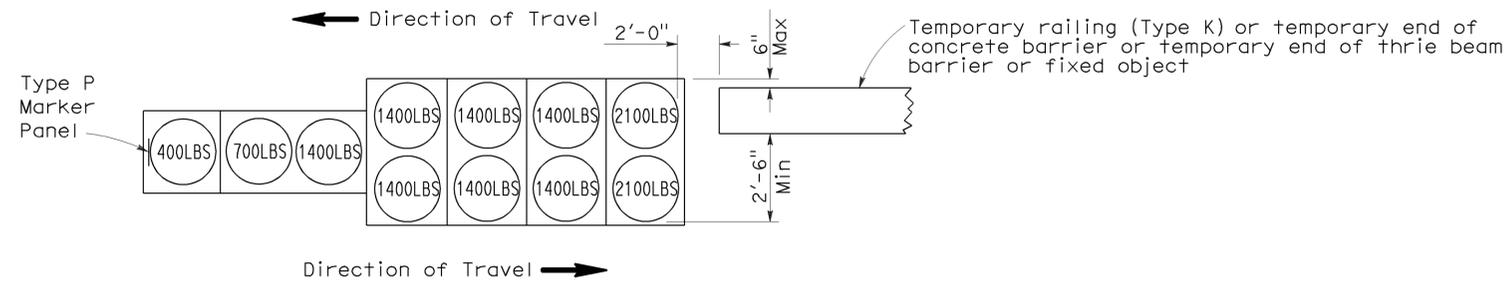
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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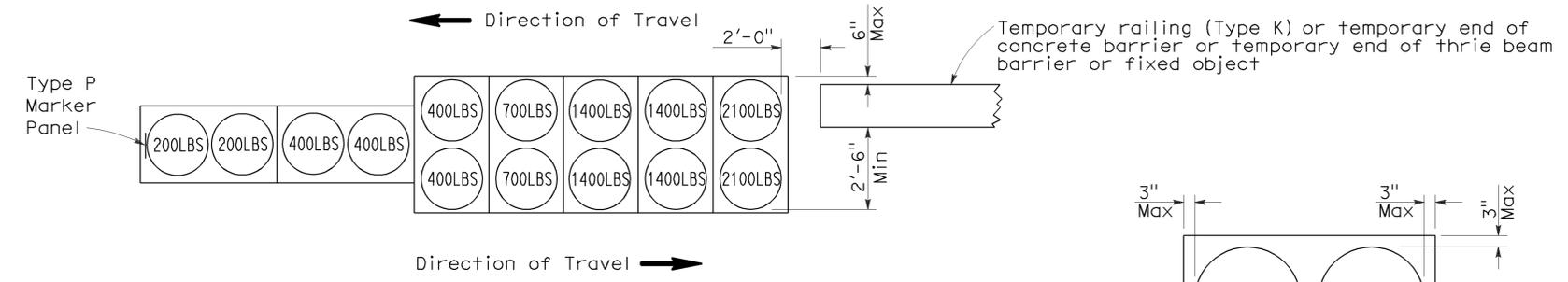
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 3-2-11



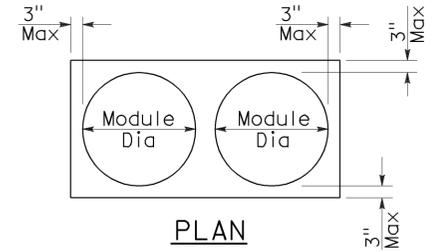
ARRAY 'TB11'

Approach speed less than 45 mph

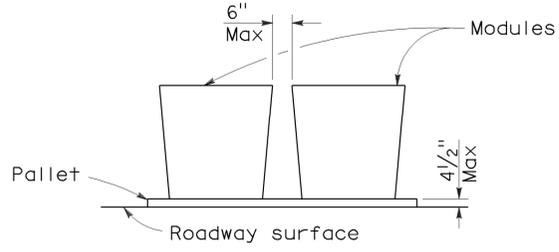


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

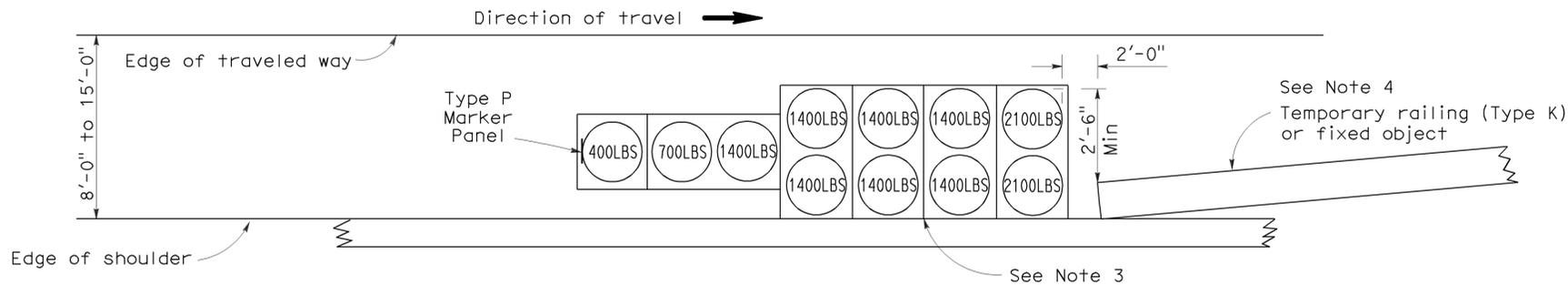
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	22	26

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

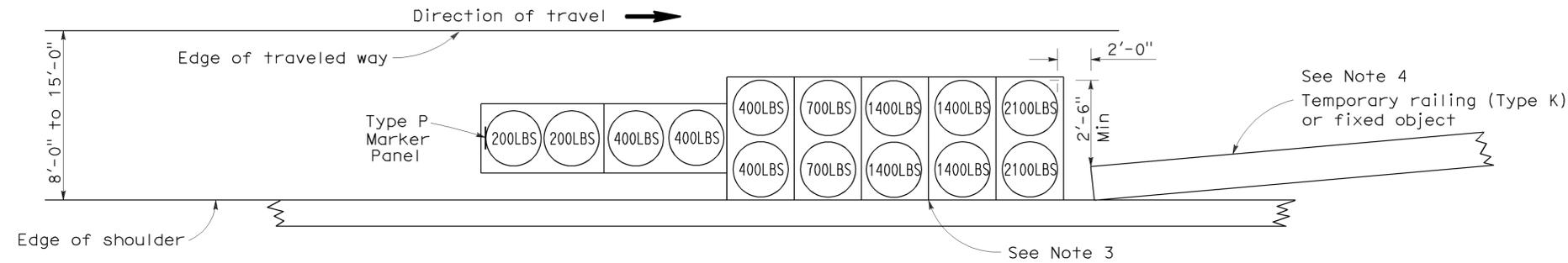
June 6, 2008
PLANS APPROVAL DATE

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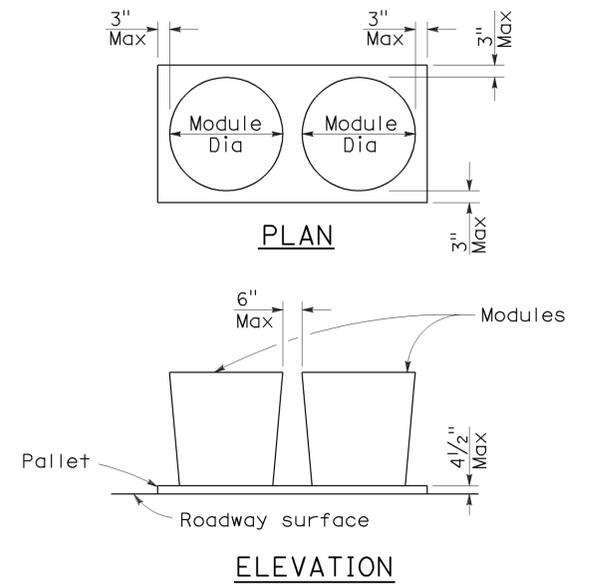
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA



ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

To accompany plans dated 3-2-11

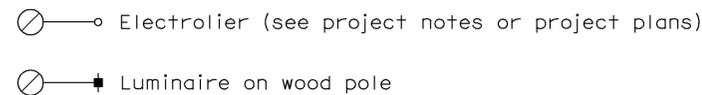
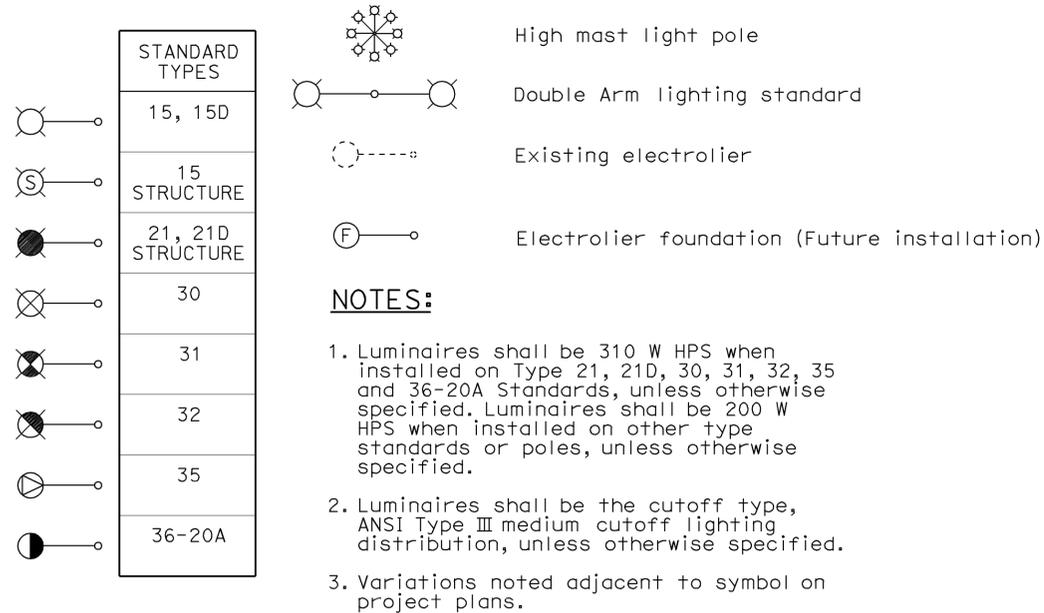
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

NO SCALE
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

ELECTROLIERS



STANDARD NOTES:

- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH** Detector handhole.
- FA** Foundation to be abandoned.
- IS** Install sign on signal mast arm.
- NS** No slip base on standard.
- PEC** Photoelectric control.
- PEU** Photoelectric unit.
- RC** Equipment or material to be removed and become the property of the Contractor.
- RE** Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL** Relocate equipment.
- RR** Remove and reuse equipment.
- RS** Remove and salvage equipment.
- SC** Splice new to existing conductors.
- SD** Service disconnect.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	
MAS-4C	mas-4C	
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	23	26

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

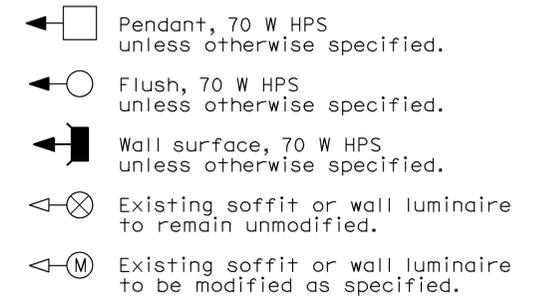
October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

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To accompany plans dated 3-2-11

SOFFIT AND WALL MOUNTED LUMINAIRES



NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	24	26

Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE

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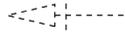
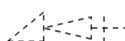
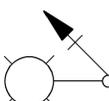
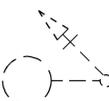
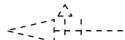
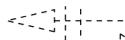
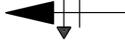
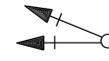
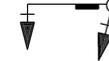
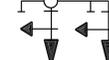
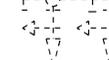
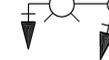
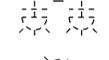
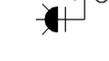
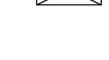
To accompany plans dated 3-2-11

2006 REVISED STANDARD PLAN RSP ES-1B

CONDUIT

PROPOSED	EXISTING	
---	---	Lighting Conduit, unless otherwise indicated or noted
---	---	Traffic signal conduit
-C-	-c-	Communication conduit
-T-	-t-	Telephone conduit
-F-	-f-	Fire alarm conduit
-FO-	-fo-	Fiber optic conduit
---	---	Conduit termination 
		Conduit riser in/on structure or service pole

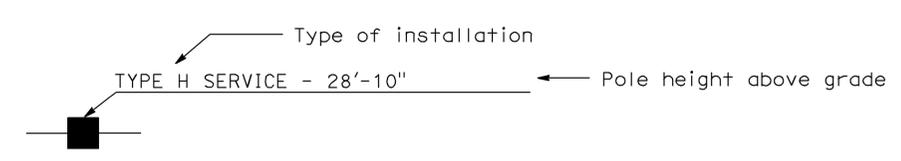
SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" Indicates all non-arrow sections lowered "LG" Indicates lowered green section only "PV" Indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

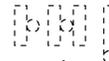
SERVICE EQUIPMENT

PROPOSED	EXISTING	
---OH---	---oh---	Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

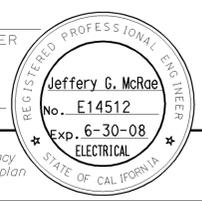
NOTES:

1. All signal sections shall be 12" unless shown otherwise.
2. Signal heads shall be provided with backplates unless shown otherwise.
3. Signal indication shall be LED.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**
 NO SCALE

RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

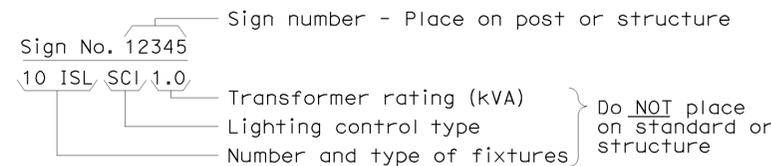
REVISED STANDARD PLAN RSP ES-1B



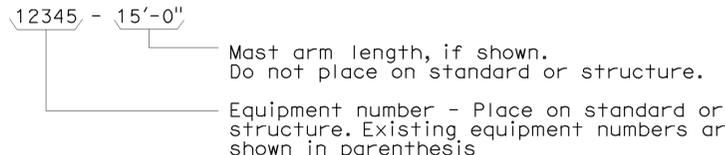
To accompany plans dated 3-2-11

EQUIPMENT IDENTIFICATION

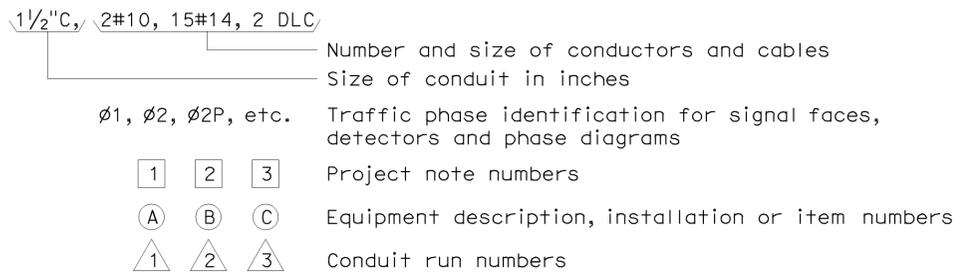
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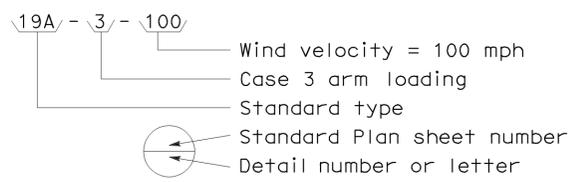
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



CONDUIT AND CONDUCTOR IDENTIFICATION:



SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
		Changeable message sign
		Closed circuit television camera
		Highway advisory radio pole and antenna
		Extinguishable message sign
		Detection device M = Microwave sensor V = Video image sensor

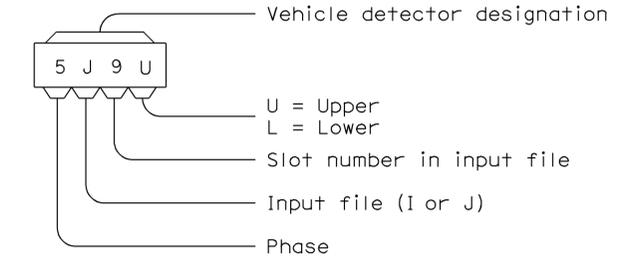
WIRING DIAGRAM LEGEND

P	Pole	----	External conductor
CB	Circuit breaker	—	Conductor or bus
A	Ampere	—●—	Tie point
V	Volt	—/—	Contactor coil
M	Metered	— —	Contactor, Contact NO
UM	Unmetered	—X—	Terminal blocks
NB	Neutral bus	—/—	Contactor, Contact NC
GB	Ground bus	—/—	Enclosure bond
G	Equipment grounding conductor	— —	Grounding electrode
N	Grounded conductor (Neutral)	—●—	Circuit breaker
		Ⓜ	Receptacle

PULL BOXES

PROPOSED	EXISTING	
		Pull box-No. 5 unless otherwise indicated or noted.
		Pull box-Additional designations or descriptions
3		(C) = Communications pull box
5		(E) = Pull box with extension
6		(S) = Sprinkler control pull box
7		(21) = Anchor bolts and conduit for future installation of Type 21 Standard
8		(T) = Traffic pull box
9		
9A		

VEHICLE DETECTORS



PROPOSED	EXISTING	
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type Q detector loop. Outline of sawcut shown.
		Magnetic detector
		Detector handhole
		Microwave or video detection zone

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**ELECTRICAL SYSTEMS
(SYMBOLS AND ABBREVIATIONS)**
NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But	99	30.2/R32.4 R33.3/T37.5	26	26

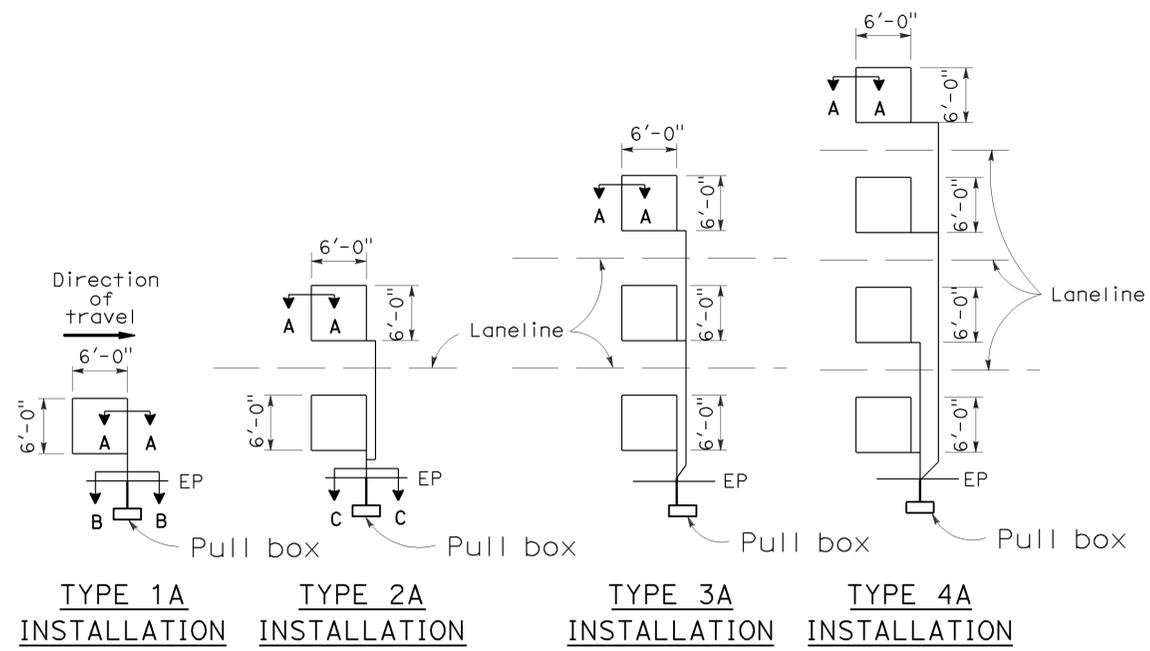
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

October 5, 2007
 PLANS APPROVAL DATE

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LOOP INSTALLATION PROCEDURE

- Loops shall be centered in lanes.
- Saw slots in pavement for loop conductors as shown in details.
- Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
- Bottom of saw slot shall be smooth with no sharp edges.
- Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
- Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
- Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
- Install loop conductor in slot using a 3/16" to 1/4" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
- No more than 2 twisted pairs shall be installed in one sawed slot.
- Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
- The additional length of each conductor for each loop shall be twisted together into a pair (6 turns per 3'-4" minimum) before being placed in the slot and conduit leading to pull box.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
- Fill slots as shown in details.
- Splice loop conductors to lead-in-cable. Splices shall be soldered.
- End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
- Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
- Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.



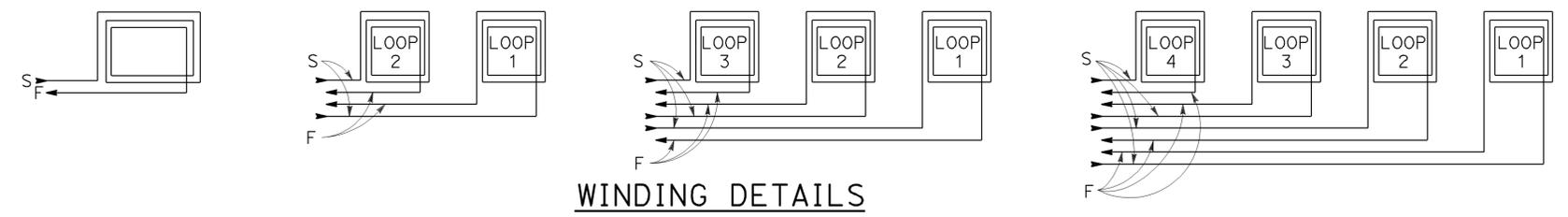
TYPE 1A INSTALLATION TYPE 2A INSTALLATION TYPE 3A INSTALLATION TYPE 4A INSTALLATION

SAWCUT DETAILS

- (Type A loop detector configurations illustrated)
- 1A thru 4A = 1 Type A loop configuration in each lane.
 - 1B thru 4B = 1 Type B loop configuration in each lane.
 - 1C = 1 Type C loop configuration entering lanes as required.
 - 1D thru 4D = 1 Type D loop configuration in each lane.
 - 1E thru 4E = 1 Type E loop configuration in each lane.
 - 1Q thru 4Q = 1 Type Q loop configuration in each lane.
- (Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans)

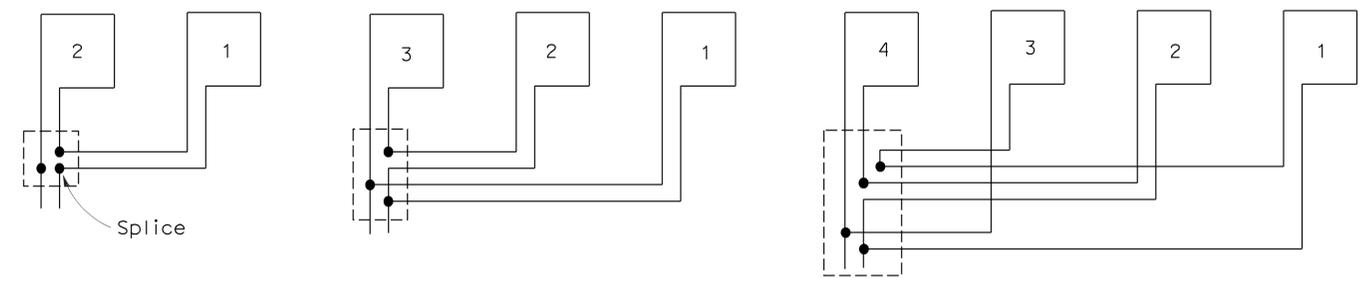
To accompany plans dated 3-2-11

2006 REVISED STANDARD PLAN RSP ES-5A



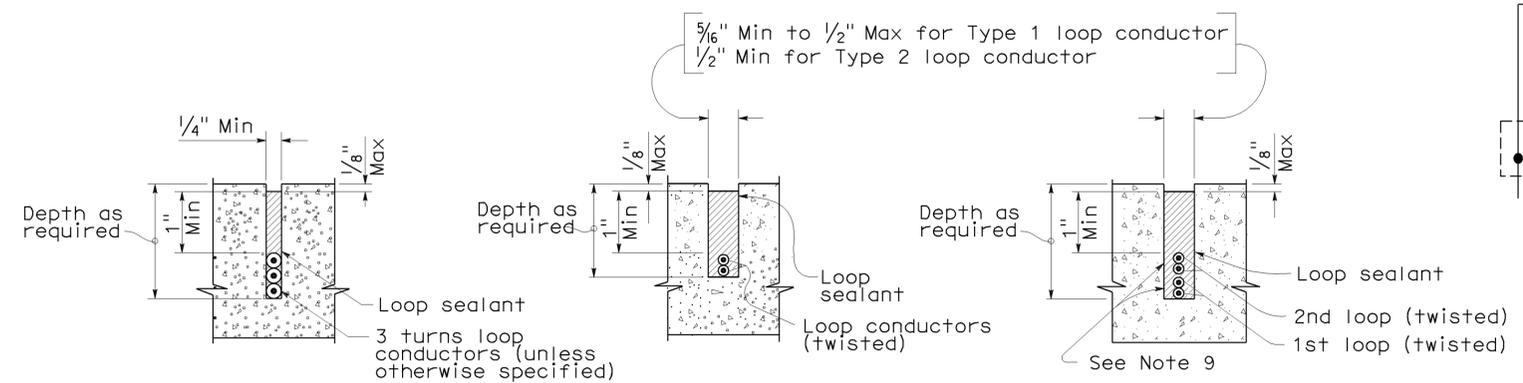
WINDING DETAILS

See Notes 6 and 7



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)



SECTION A-A SECTION B-B SECTION C-C
SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

ELECTRICAL SYSTEMS (DETECTORS)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

NO SCALE

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