

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION DETAILS AND SUMMARY OF QUANTITIES
3-4	CONSTRUCTION AREA SIGNS
5-7	MOTORIST INFORMATION PLANS
8	PAVEMENT DELINEATION QUANTITIES
9-17	REVISED STANDARD PLANS
STRUCTURE PLANS	
18-25	FORT SUTTER VIADUCT, Br No. 24-0188R

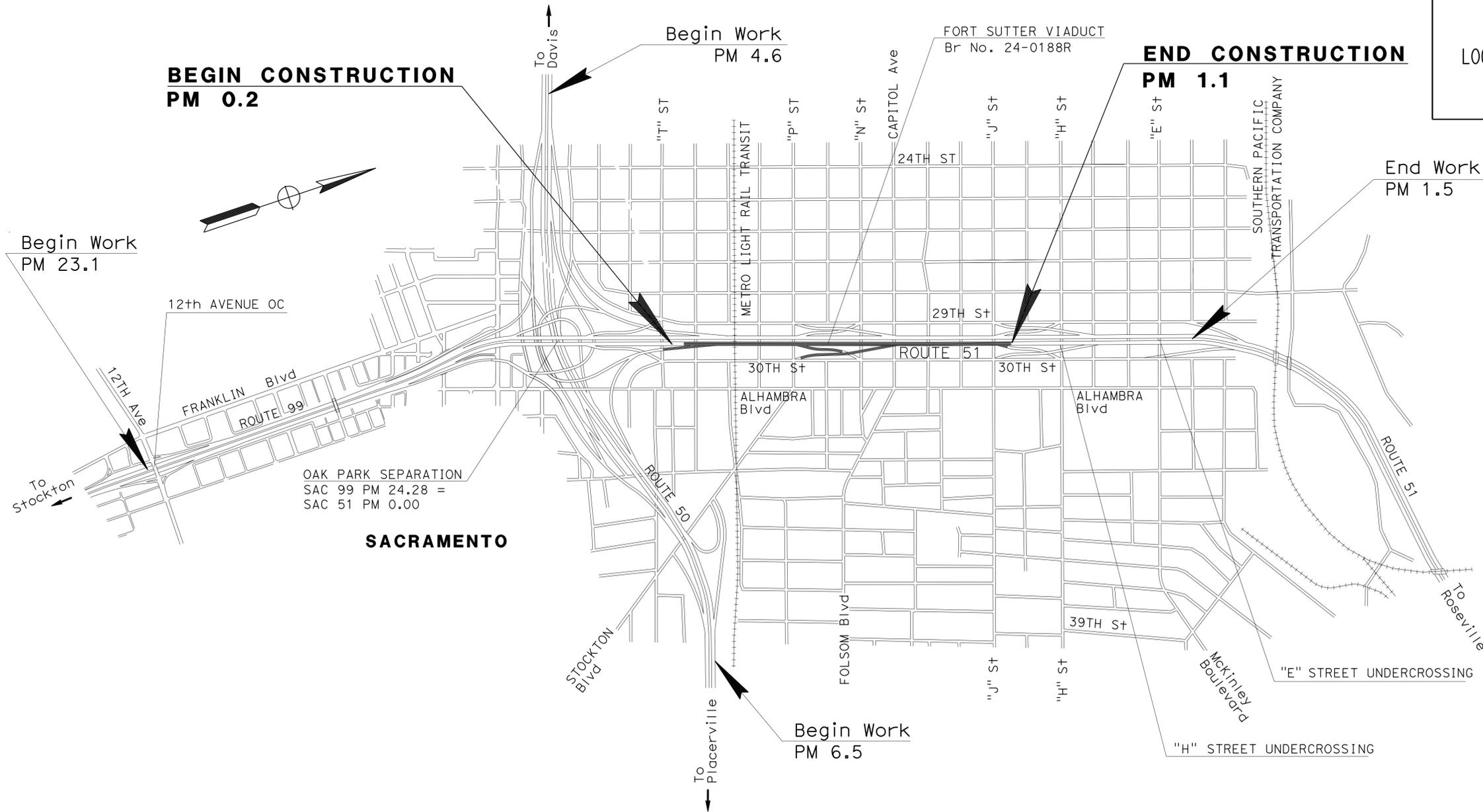
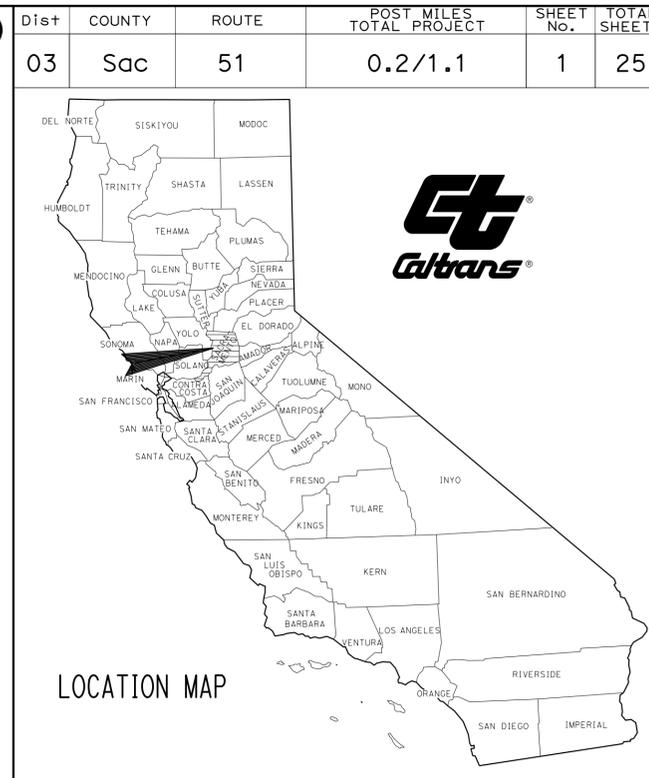
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACBHNH-P051(028)

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SACRAMENTO COUNTY
IN SACRAMENTO
FROM 0.2 MILE NORTH OF OAK PARK SEPARATION
TO 0.2 MILE SOUTH OF H STREET UNDERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



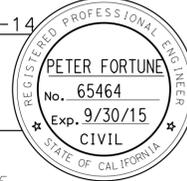
PROJECT MANAGER
DOUG LANGE

DESIGN ENGINEER
DEANN SPANGLER

Peter Fortune 12-29-14
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

December 29, 2014
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.



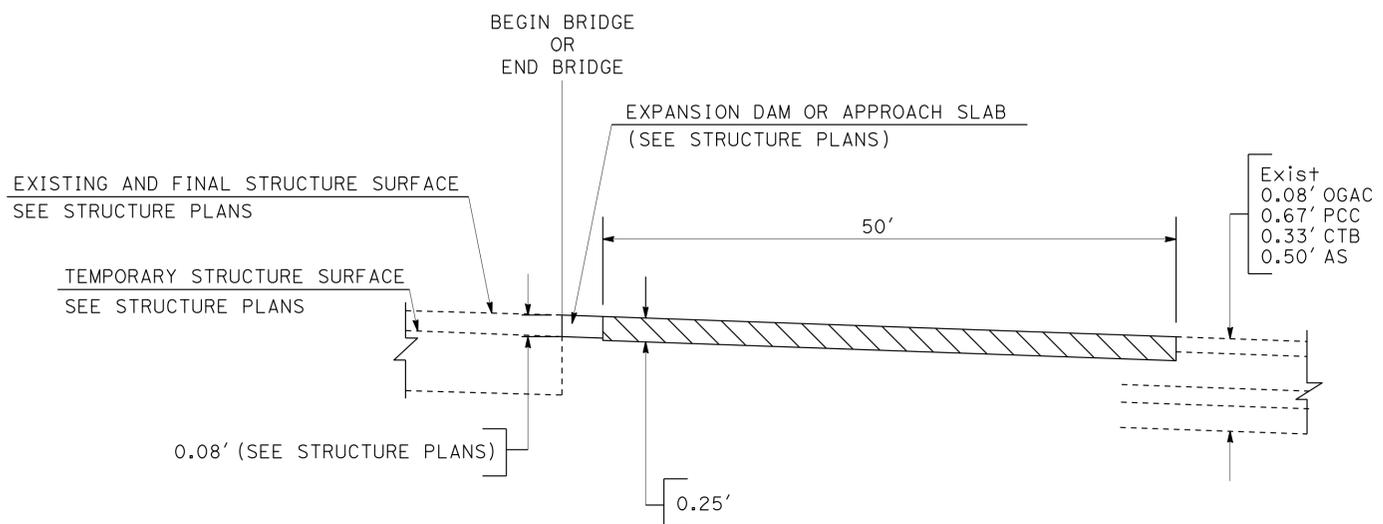
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

LEGEND:

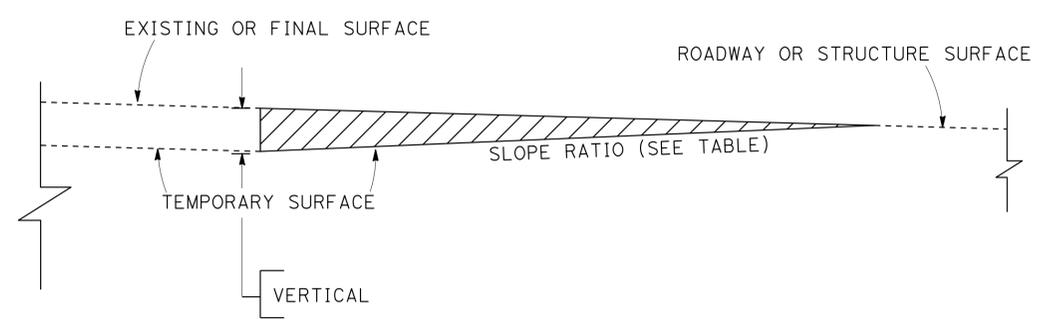
 MINOR HMA

 TEMPORARY TAPER



CONFORM DETAIL

ROADWAY CONFORM AT THE BEGINNING AND END OF BRIDGE



TYPICAL PAVING CONFORM FOR TEMPORARY CONSTRUCTION TAPERS

TEMPORARY CONSTRUCTION TAPER TABLE (FOR ALL PAVING MATERIALS)

VERTICAL	SLOPE RATIO (HORIZONTAL : VERTICAL)
0 - 0.10'	70:1
GREATER THAN 0.10'	160:1

ROADWAY QUANTITIES

	ROUTE	DESCRIPTION	EXPANSION DAM OR APPROACH SLAB	COLD PLANE AC PAVEMENT	GRIND EXISTING CONCRETE PAVEMENT	MINOR HMA	TACK COAT
				SQYD	SQYD	TON	TON
CONFORM	51	EB 50 AND WB 50 CONNECTOR	EXPANSION DAM		268	22	0.06
	51	ROUTE 51 BEGIN BRIDGE	APPROACH SLAB	324		54	0.07
	51	N STREET OFF RAMP	EXPANSION DAM	182		30	0.04
	51	P STREET ON RAMP	EXPANSION DAM	182		30	0.04
	51	H STREET OFF RAMP	EXPANSION DAM	182		30	0.04
	51	ROUTE 51 END BRIDGE	EXPANSION DAM	428		71	0.09
TOTAL				1298	268	237	0.34

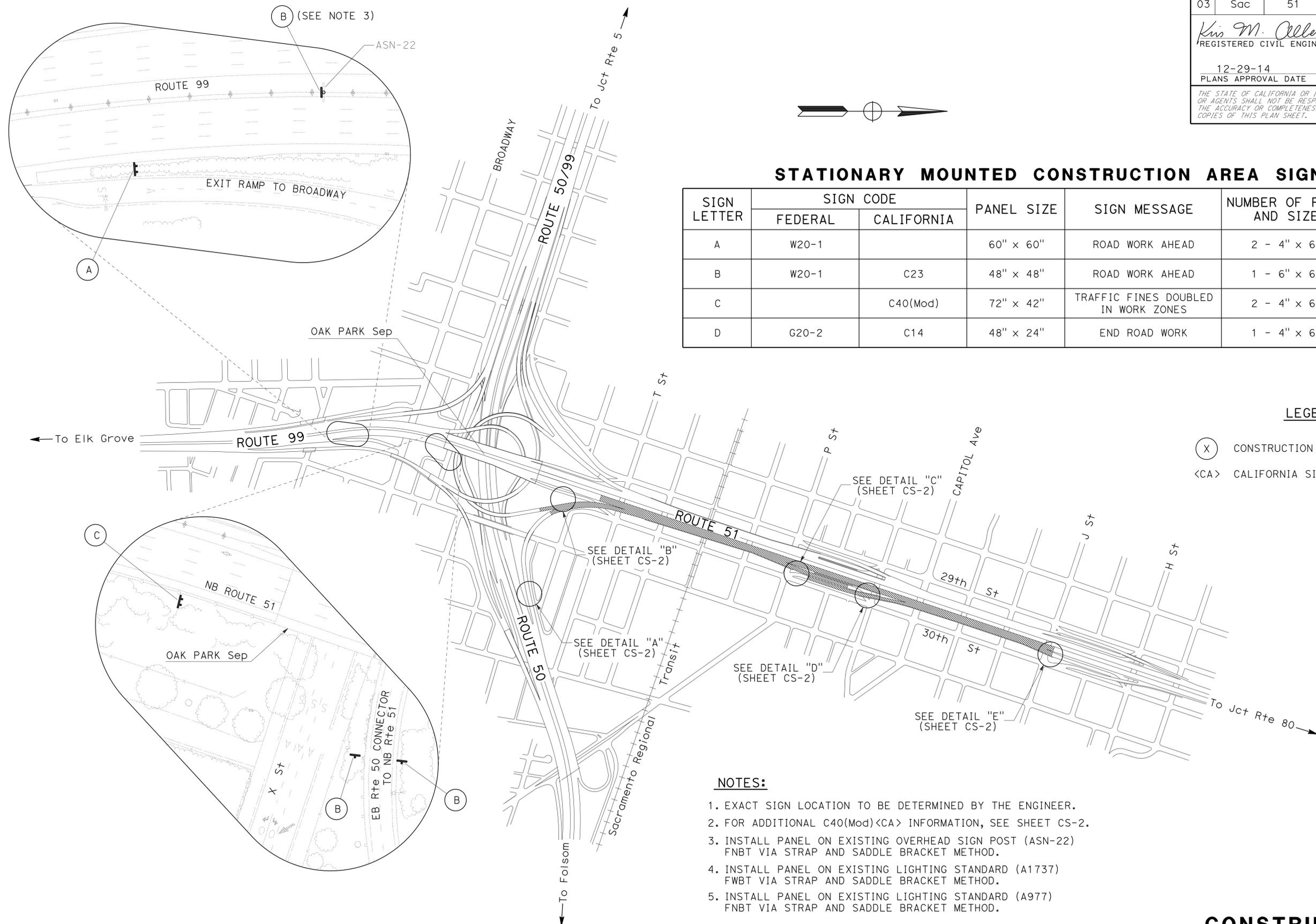
CONSTRUCTION DETAILS AND SUMMARY OF QUANTITIES

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION ENGINEERING
 FUNCTIONAL SUPERVISOR DEANN SPANGLER
 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: SERGIO ACEVES
 CHECKED BY: KRIS ALBERS
 DESIGNED BY: JACK KEMMERLY
 REVISIONS: REVISED BY: DATE REVISED:



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1		60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	1
B	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	5
C		C40(Mod)	72" x 42"	TRAFFIC FINES DOUBLED IN WORK ZONES	2 - 4" x 6"	1
D	G20-2	C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	4

LEGEND

- (X) CONSTRUCTION AREA SIGN LETTER
- <CA> CALIFORNIA SIGN CODE

NOTES:

- EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
- FOR ADDITIONAL C40(Mod)<CA> INFORMATION, SEE SHEET CS-2.
- INSTALL PANEL ON EXISTING OVERHEAD SIGN POST (ASN-22) FNBT VIA STRAP AND SADDLE BRACKET METHOD.
- INSTALL PANEL ON EXISTING LIGHTING STANDARD (A1737) FWBT VIA STRAP AND SADDLE BRACKET METHOD.
- INSTALL PANEL ON EXISTING LIGHTING STANDARD (A977) FNBT VIA STRAP AND SADDLE BRACKET METHOD.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	5	25

Kris M. Albers 12-29-14
 REGISTERED CIVIL ENGINEER DATE

12-29-14
 PLANS APPROVAL DATE

No. 49986
 Exp. 6-30-15
 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.

TRAFFIC DETOUR INFORMATION

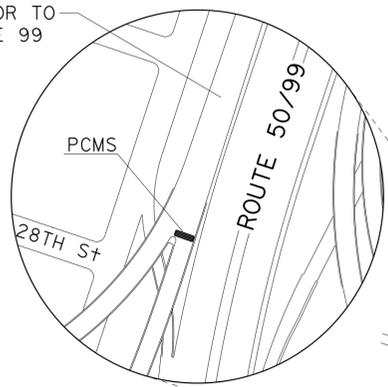
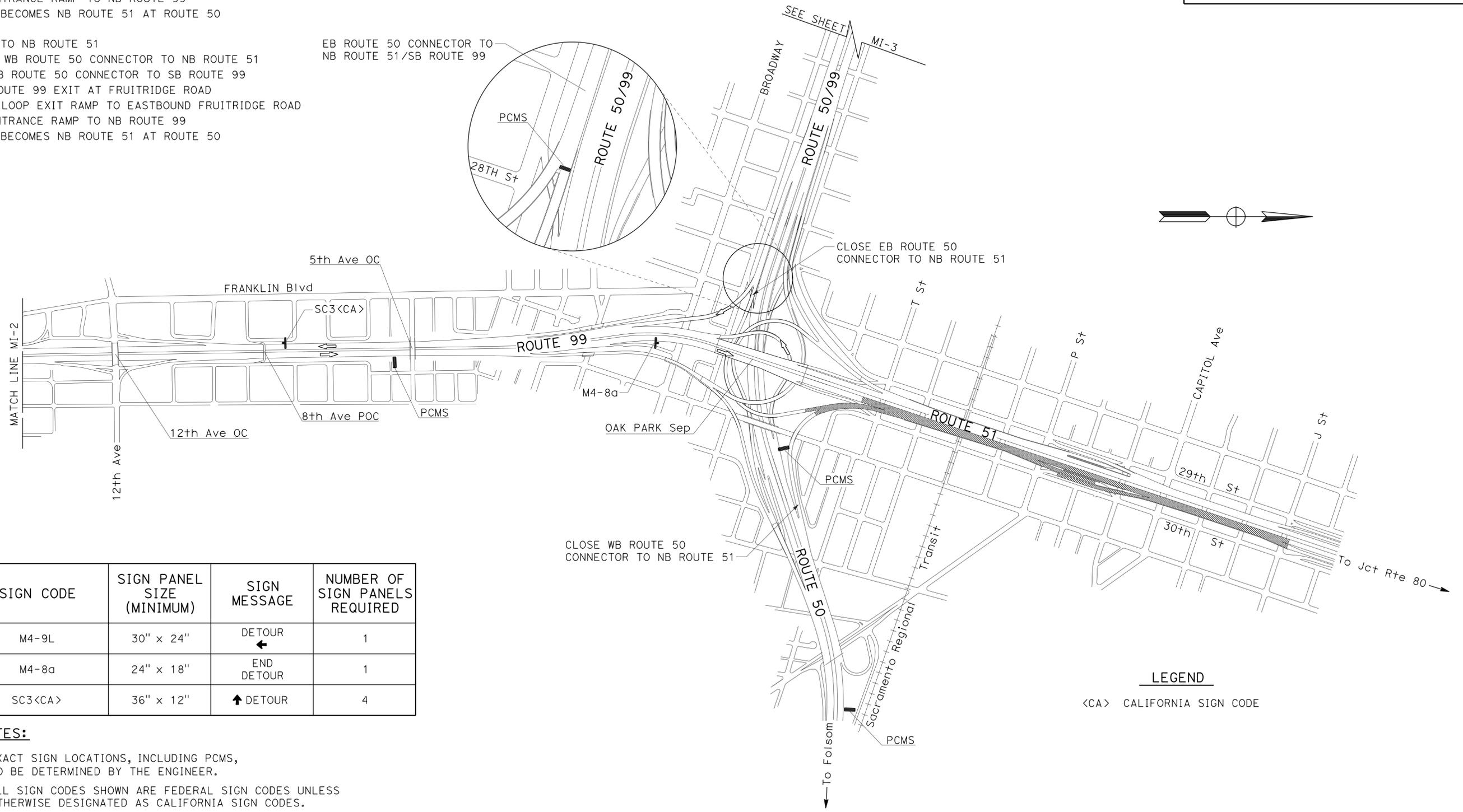
EB ROUTE 50 TO NB ROUTE 51

1. CLOSE THE EB ROUTE 50 CONNECTOR TO NB ROUTE 51
 2. USE THE EB ROUTE 50 CONNECTOR TO SB ROUTE 99
 3. FROM SB ROUTE 99 EXIT AT FRUITRIDGE ROAD
 - A. FOLLOW LOOP EXIT RAMP TO EASTBOUND FRUITRIDGE ROAD
 - B. TAKE ENTRANCE RAMP TO NB ROUTE 99
- NB ROUTE 99 BECOMES NB ROUTE 51 AT ROUTE 50

WB ROUTE 50 TO NB ROUTE 51

1. CLOSE THE WB ROUTE 50 CONNECTOR TO NB ROUTE 51
 2. USE THE WB ROUTE 50 CONNECTOR TO SB ROUTE 99
 3. FROM SB ROUTE 99 EXIT AT FRUITRIDGE ROAD
 - A. FOLLOW LOOP EXIT RAMP TO EASTBOUND FRUITRIDGE ROAD
 - B. TAKE ENTRANCE RAMP TO NB ROUTE 99
- NB ROUTE 99 BECOMES NB ROUTE 51 AT ROUTE 50

EB ROUTE 50 CONNECTOR TO NB ROUTE 51/SB ROUTE 99



SIGN CODE	SIGN PANEL SIZE (MINIMUM)	SIGN MESSAGE	NUMBER OF SIGN PANELS REQUIRED
M4-9L	30" x 24"	DETOUR ←	1
M4-8a	24" x 18"	END DETOUR	1
SC3<CA>	36" x 12"	↑ DETOUR	4

NOTES:

1. EXACT SIGN LOCATIONS, INCLUDING PCMS, TO BE DETERMINED BY THE ENGINEER.
2. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
3. <CA> = CALIFORNIA SIGN CODE.
4. NUMBER OF SIGN PANELS REQUIRED PER DETOUR SHOWN DOES NOT INCLUDE SIGNS SHOWN ON STANDARD PLANS.
5. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE CONSTRUCTION AREA SIGN PLAN.

LEGEND
 <CA> CALIFORNIA SIGN CODE

MOTORIST INFORMATION PLAN
FOR CLOSURE OF THE EB AND WB
ROUTE 50 CONNECTORS TO NB ROUTE 51
 NO SCALE

MI-1

APPROVED FOR MOTORIST INFORMATION SIGN WORK ONLY

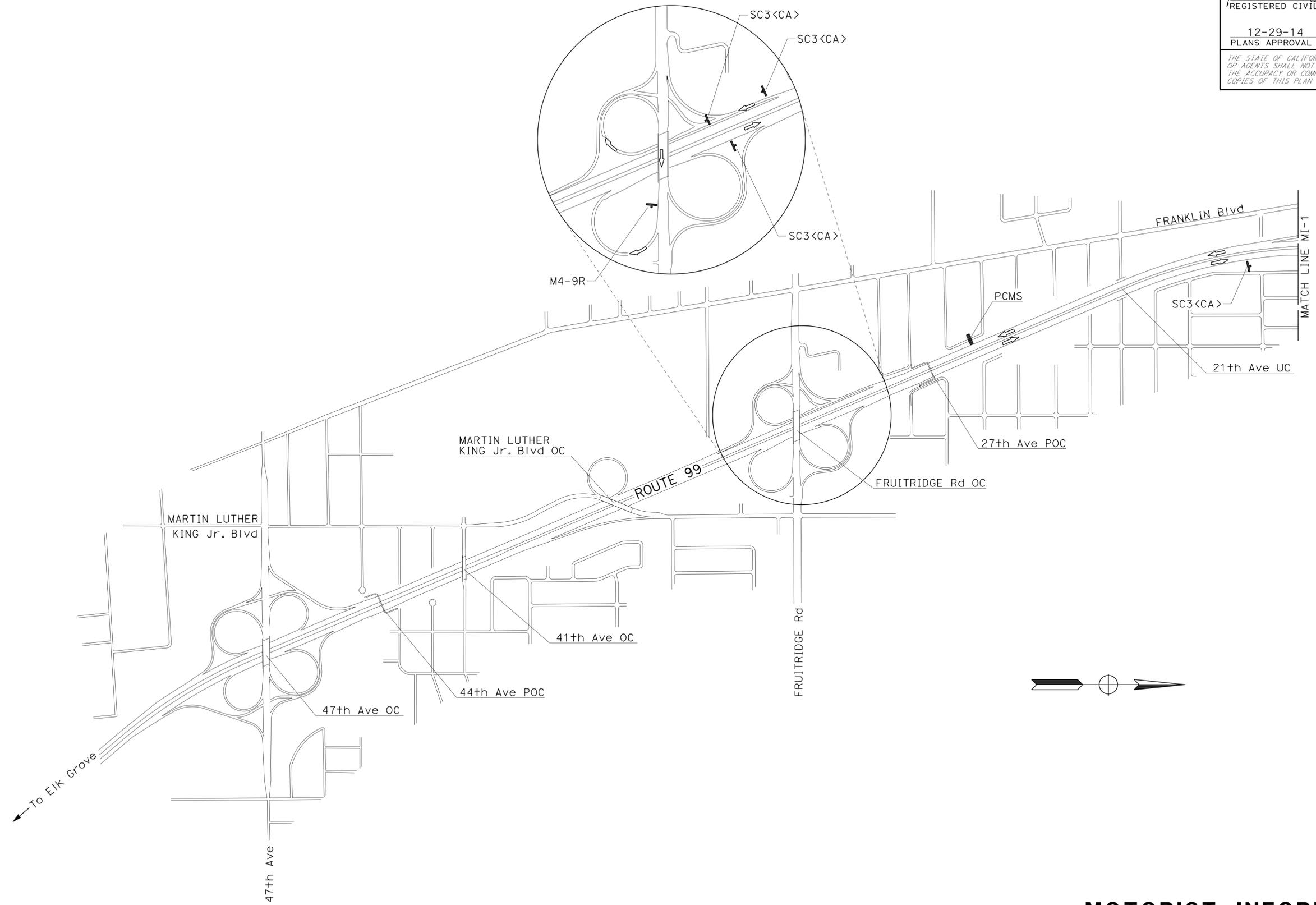
x
x
x
x
x
x
x
x

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
TRAFFIC	NARAYAN SELWAL	JACK KEMMERLY	
		KRIS ALBERS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	6	25

Kris M. Albers 12-29-14
 REGISTERED CIVIL ENGINEER DATE
 12-29-14
 PLANS APPROVAL DATE
 No. 49986
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	NARAYAN SELWAL	CHECKED BY	JACK KEMMERLY
TRAFFIC			KRIS ALBERS
			DATE REVISED

MOTORIST INFORMATION PLAN
FOR CLOSURE OF THE EB AND WB
ROUTE 50 CONNECTORS TO NB ROUTE 51
 NO SCALE

MI-2

APPROVED FOR MOTORIST INFORMATION SIGN WORK ONLY

LAST REVISION: 2-12-15
 DATE PLOTTED => 02-MAR-2015
 TIME PLOTTED => 13:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	7	25

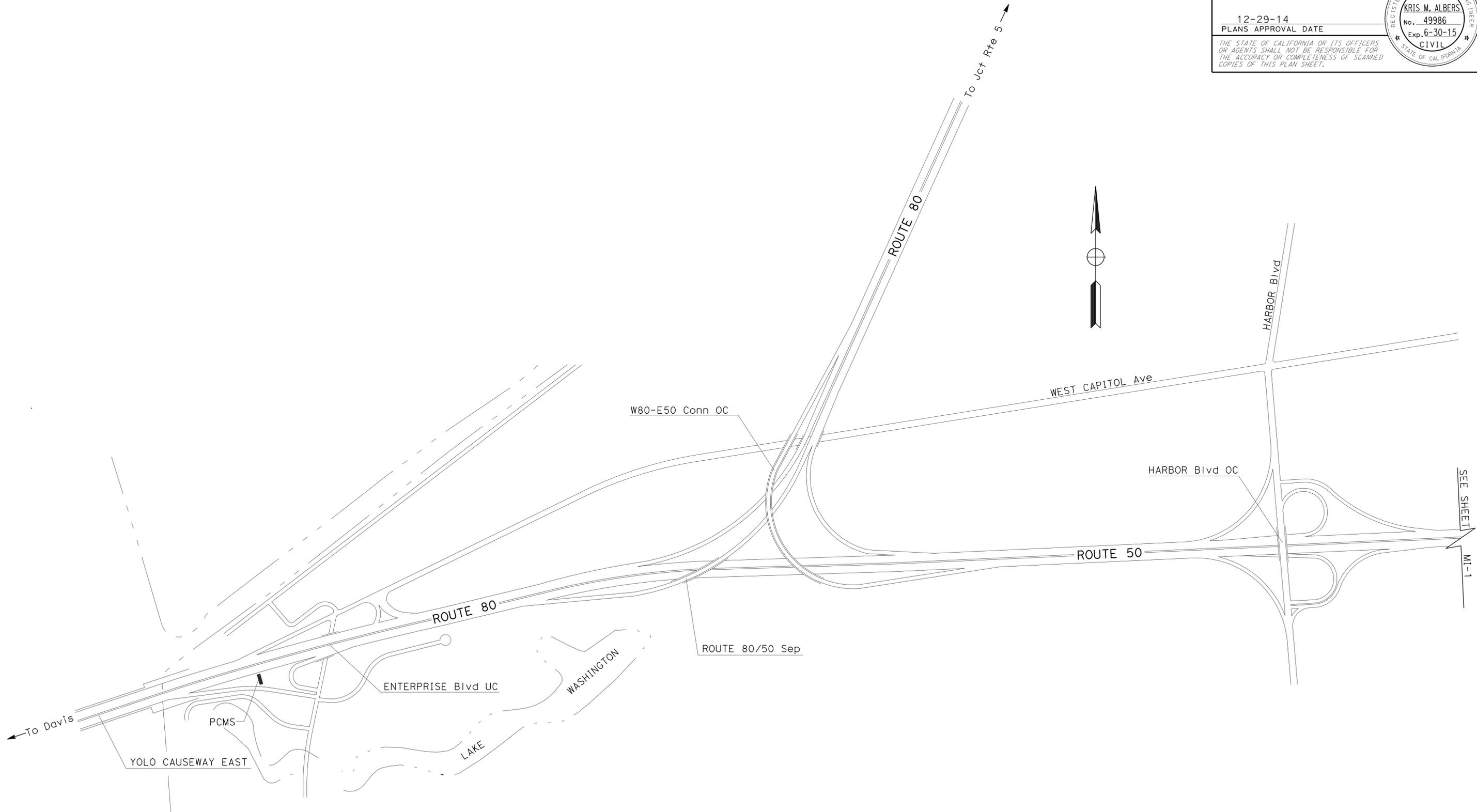
Kris M. Albers 12-29-14
REGISTERED CIVIL ENGINEER DATE

12-29-14
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
KRIS M. ALBERS
No. 49986
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	JACK KEMMERLY	REVISED BY	
Caltrans	NARAYAN SELWAL	CHECKED BY	KRIS ALBERS	DATE	
TRAFFIC					



MOTORIST INFORMATION PLAN
FOR CLOSURE OF THE EB AND WB
ROUTE 50 CONNECTORS TO NB ROUTE 51
NO SCALE

MI-3

APPROVED FOR MOTORIST INFORMATION SIGN WORK ONLY

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

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	9	25

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 12-29-14

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

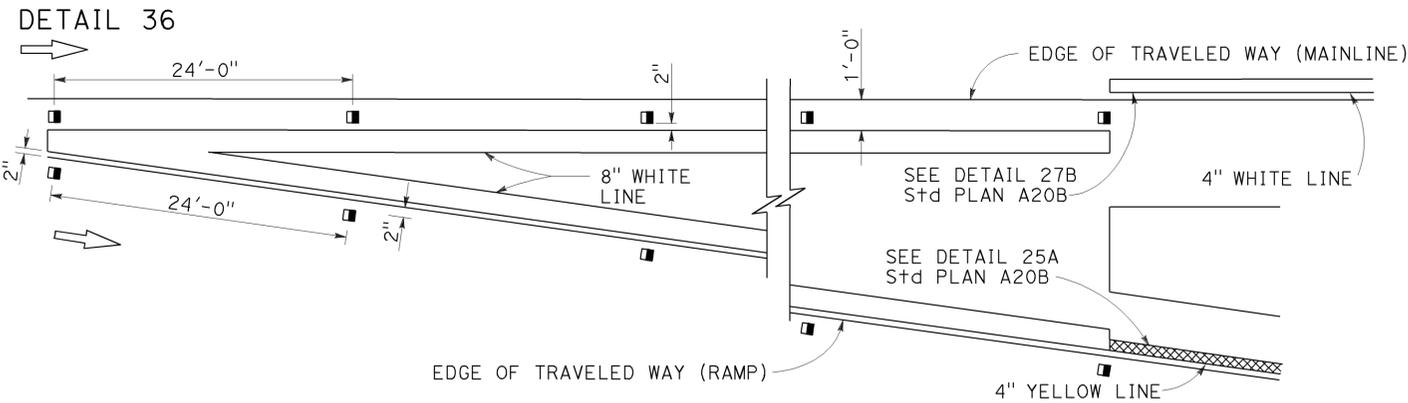
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

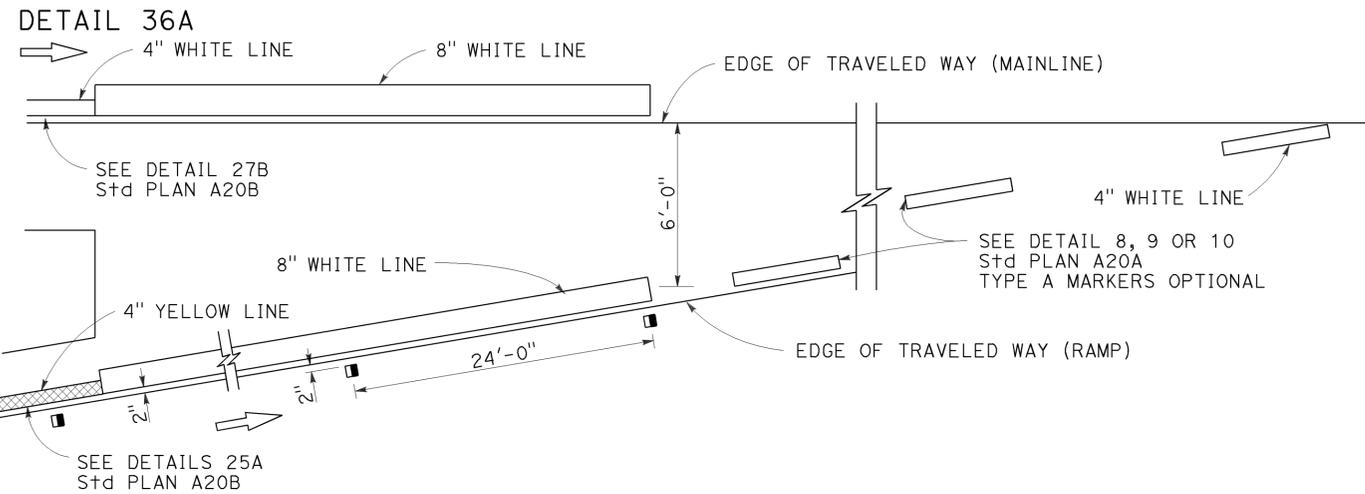
NO SCALE

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

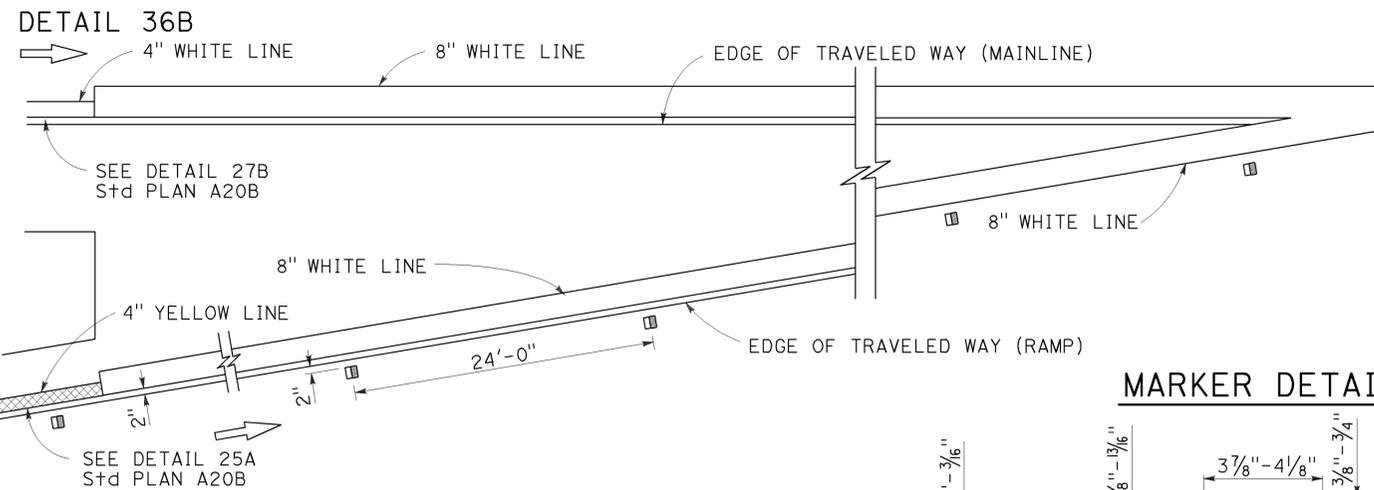
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

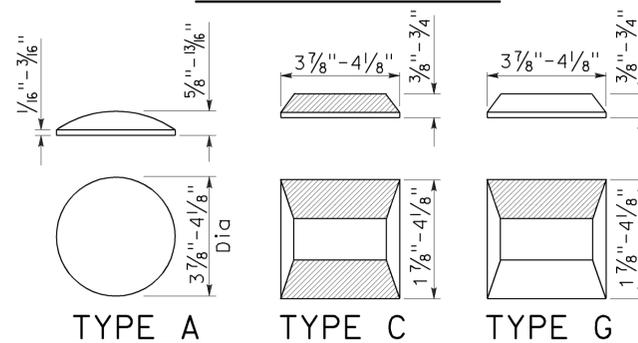


MARKER DETAILS

LEGEND:

MARKERS

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



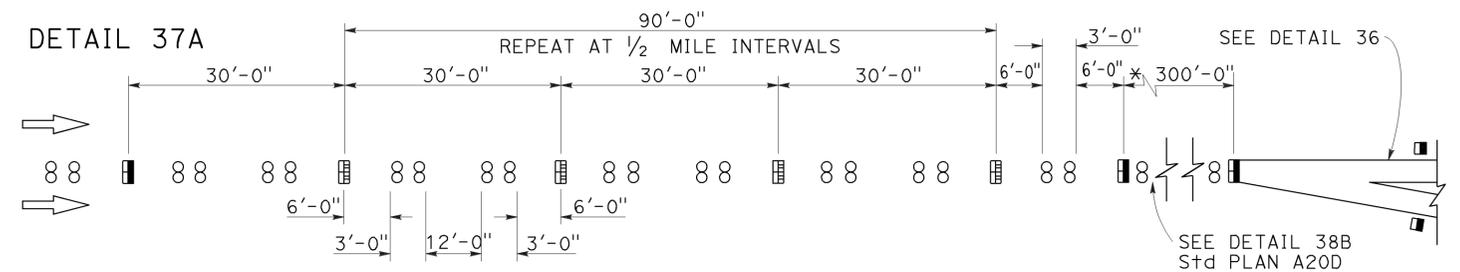
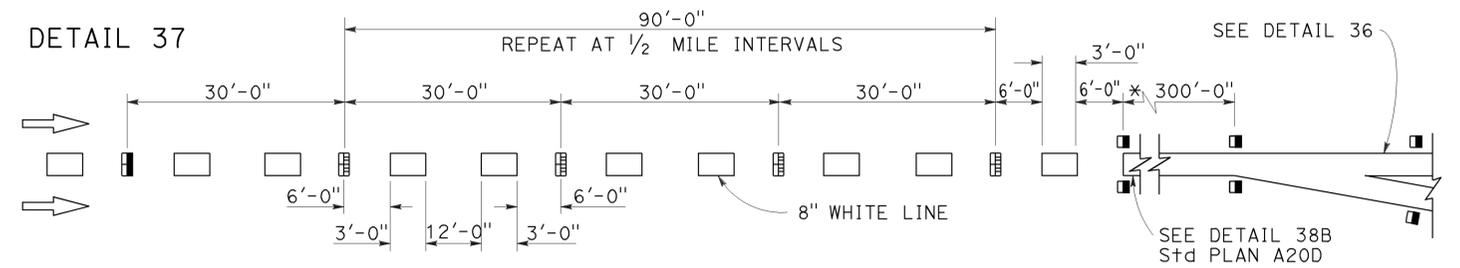
RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	10	25

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.

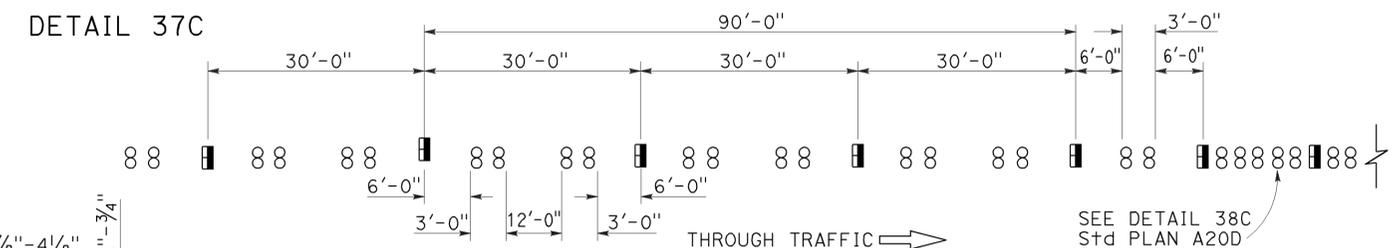
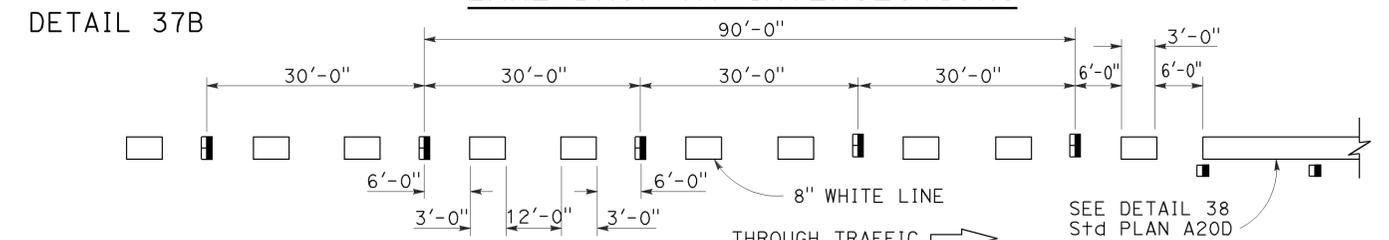
TO ACCOMPANY PLANS DATED 12-29-14

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.

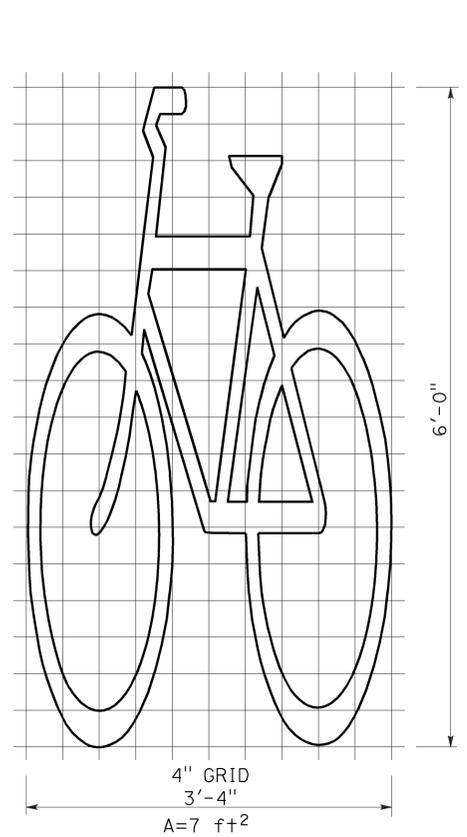
REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

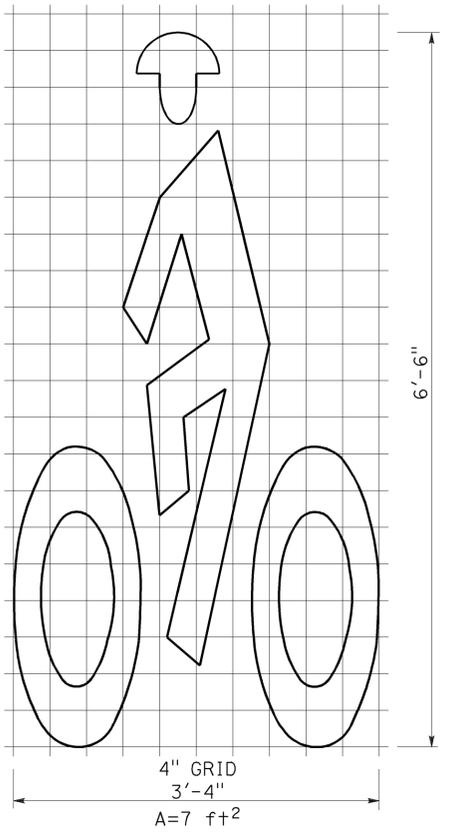
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	11	25

Robert L. McLaughlin
 REGISTERED CIVIL ENGINEER
 October 19, 2012
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

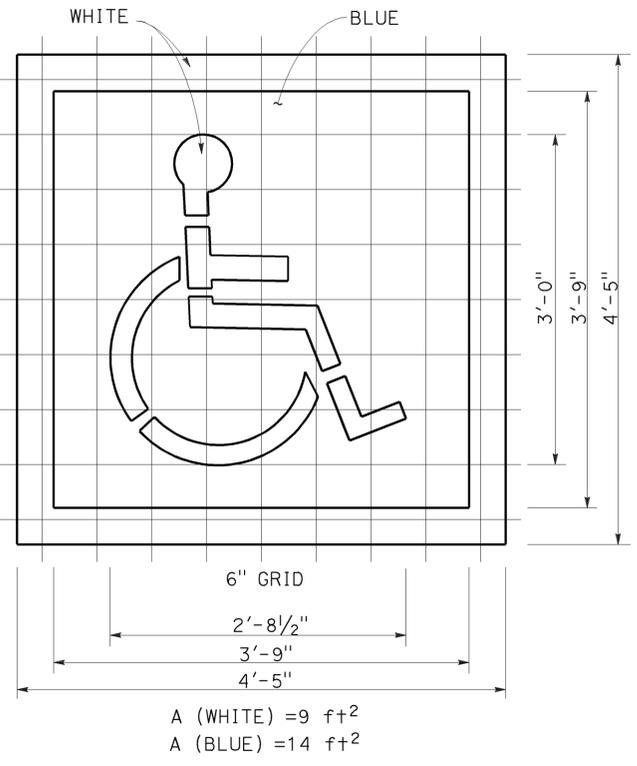
NOTE: TO ACCOMPANY PLANS DATED 12-29-14
 Minor variations in dimensions may be accepted by the Engineer.



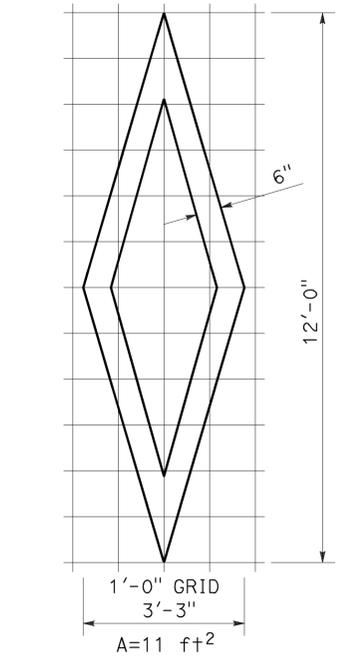
BIKE LANE SYMBOL WITHOUT PERSON



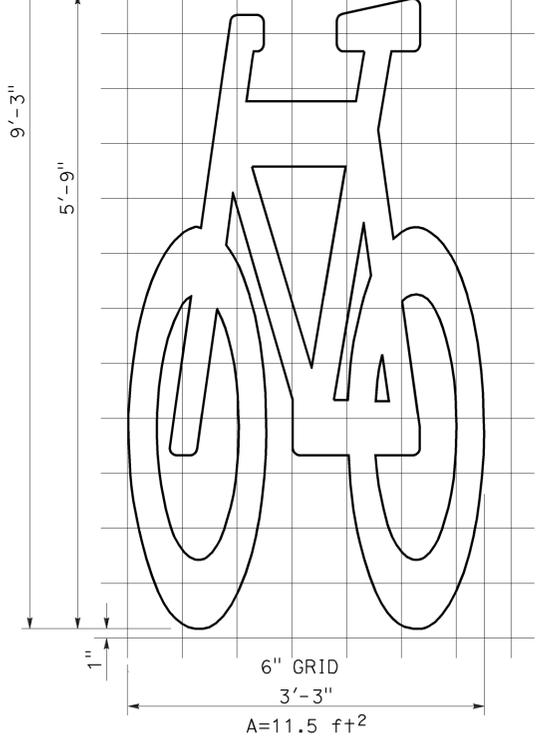
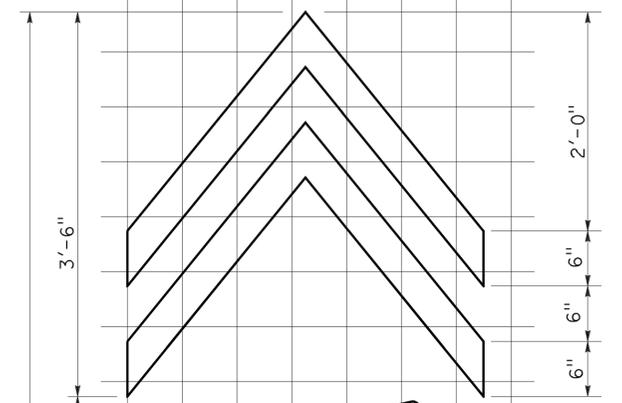
BIKE LANE SYMBOL WITH PERSON



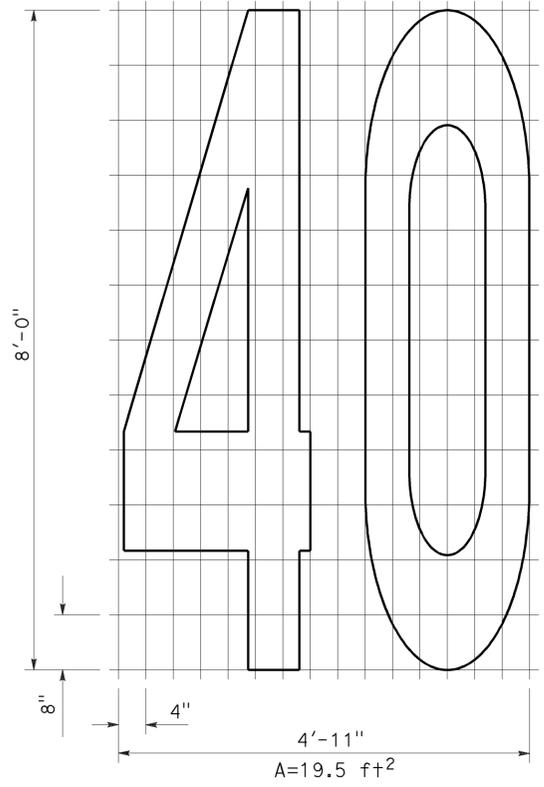
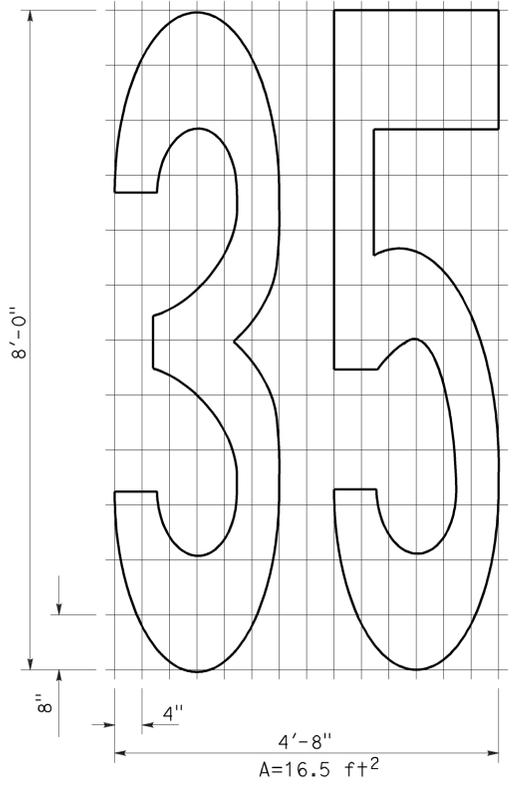
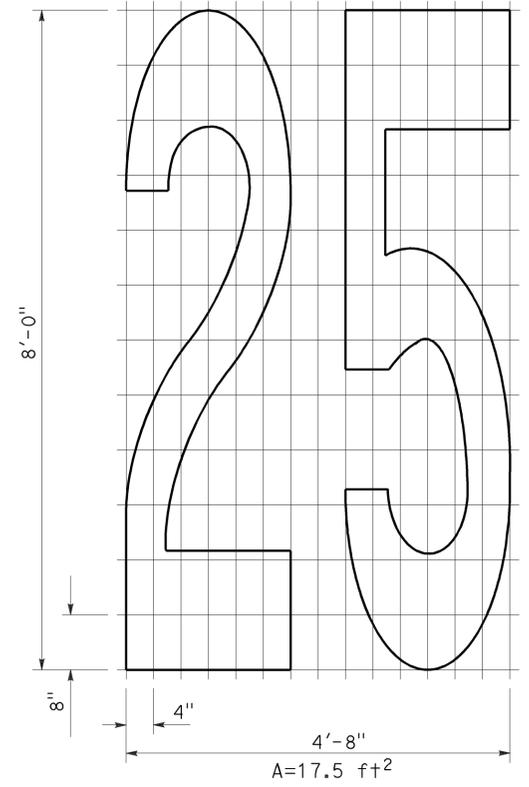
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



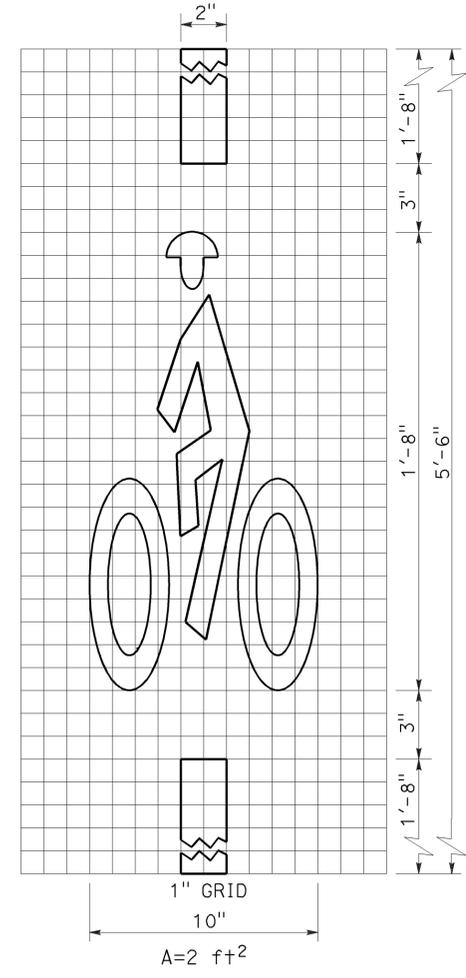
DIAMOND SYMBOL



SHARED ROADWAY BICYCLE MARKING



NUMERALS



BICYCLE LOOP DETECTOR SYMBOL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS
 NO SCALE

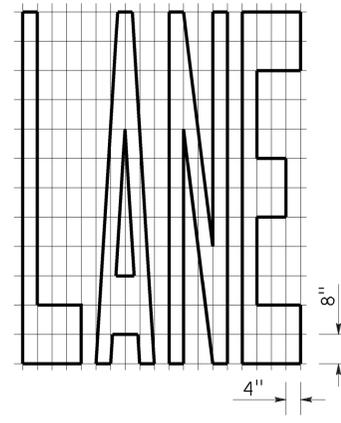
RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24C

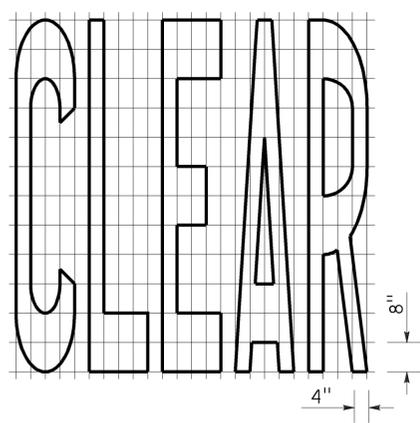
2010 REVISED STANDARD PLAN RSP A24C

TO ACCOMPANY PLANS DATED 12-29-14

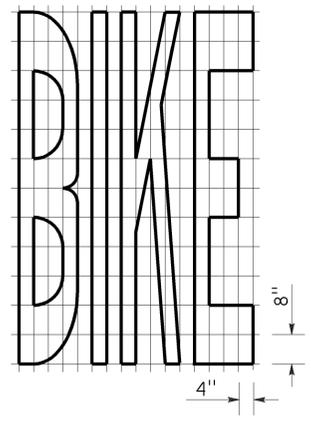
2010 REVISED STANDARD PLAN RSP A24E



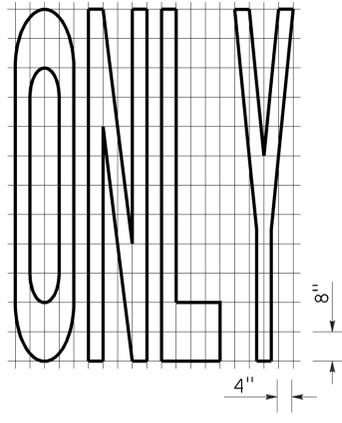
A=24 ft²



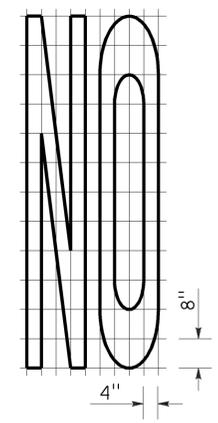
A=27 ft²



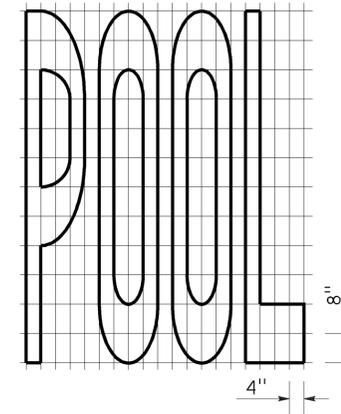
A=21 ft²



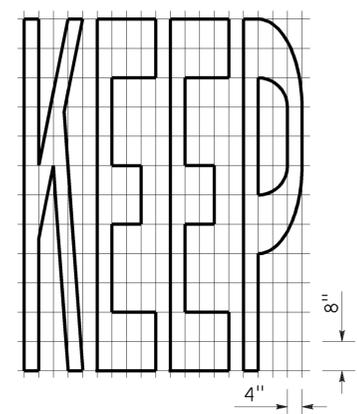
A=22 ft²



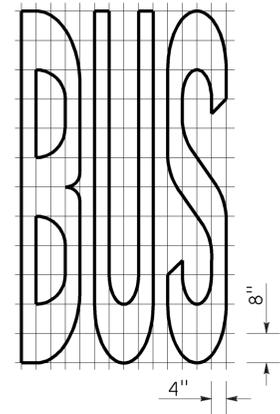
A=14 ft²



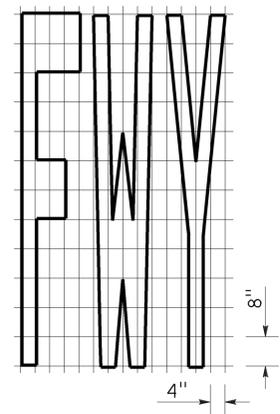
A=23 ft²



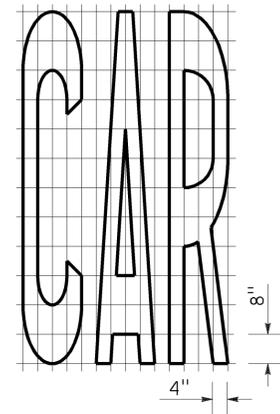
A=24 ft²



A=20 ft²

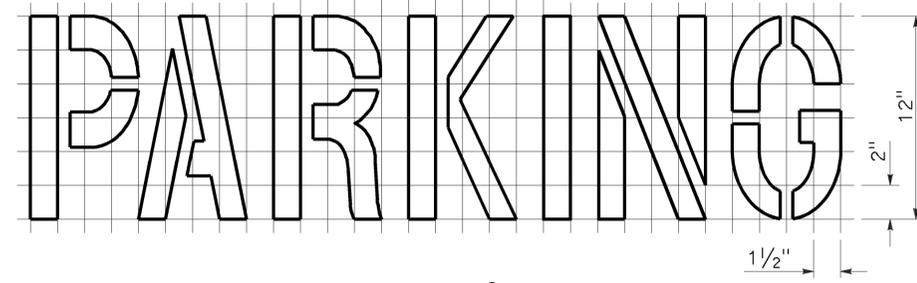
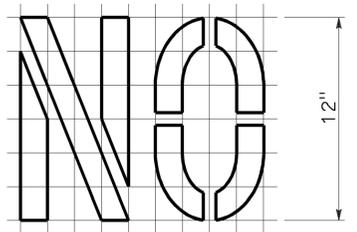


A=16 ft²

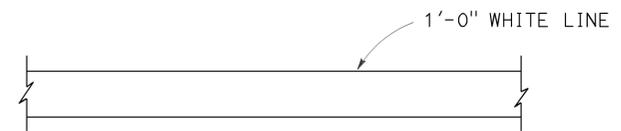


A=17 ft²

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



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

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

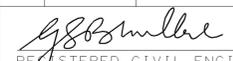
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES**

NO SCALE

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	13	25


 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 12-29-14

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.

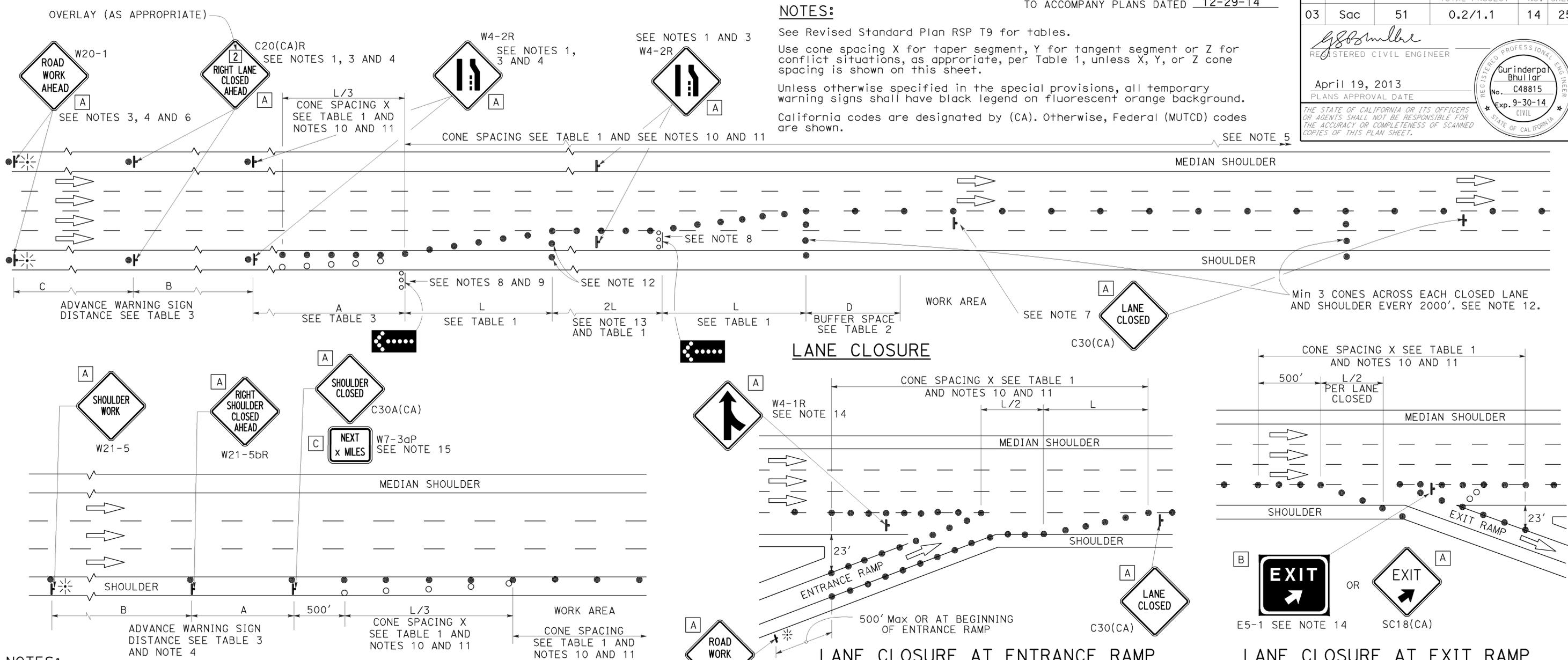
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	14	25

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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

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



- NOTES:**
- 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.

- SHOULDER CLOSURE**
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT x 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 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.

- LANE CLOSURE AT ENTRANCE RAMP**
- 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 x MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

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

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

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
03	Sac	51	0.2/1.1	15	25

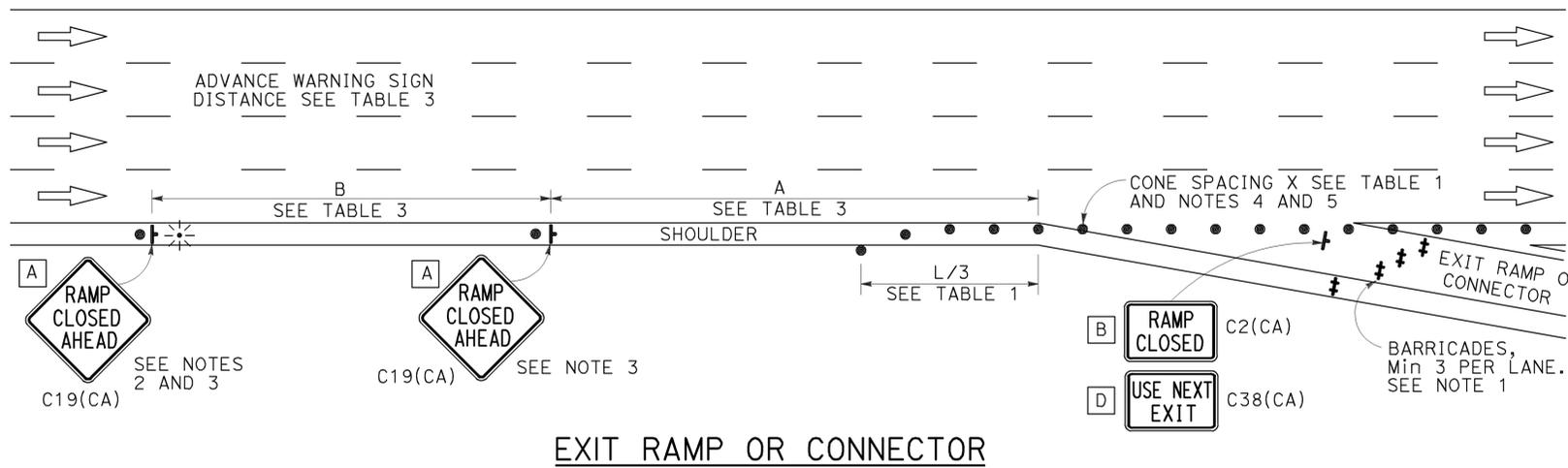
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

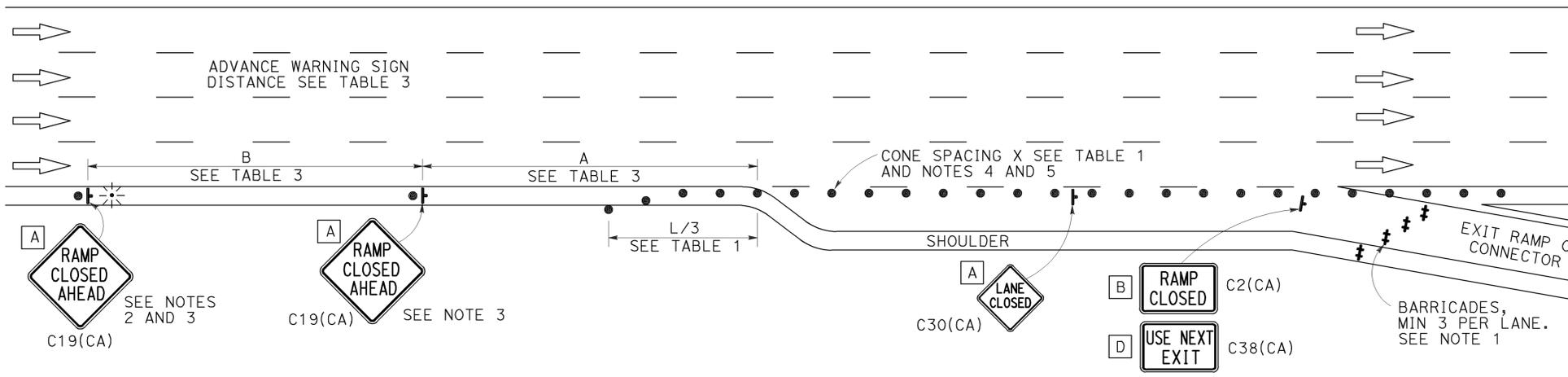
TO ACCOMPANY PLANS DATED 12-29-14

NOTES:

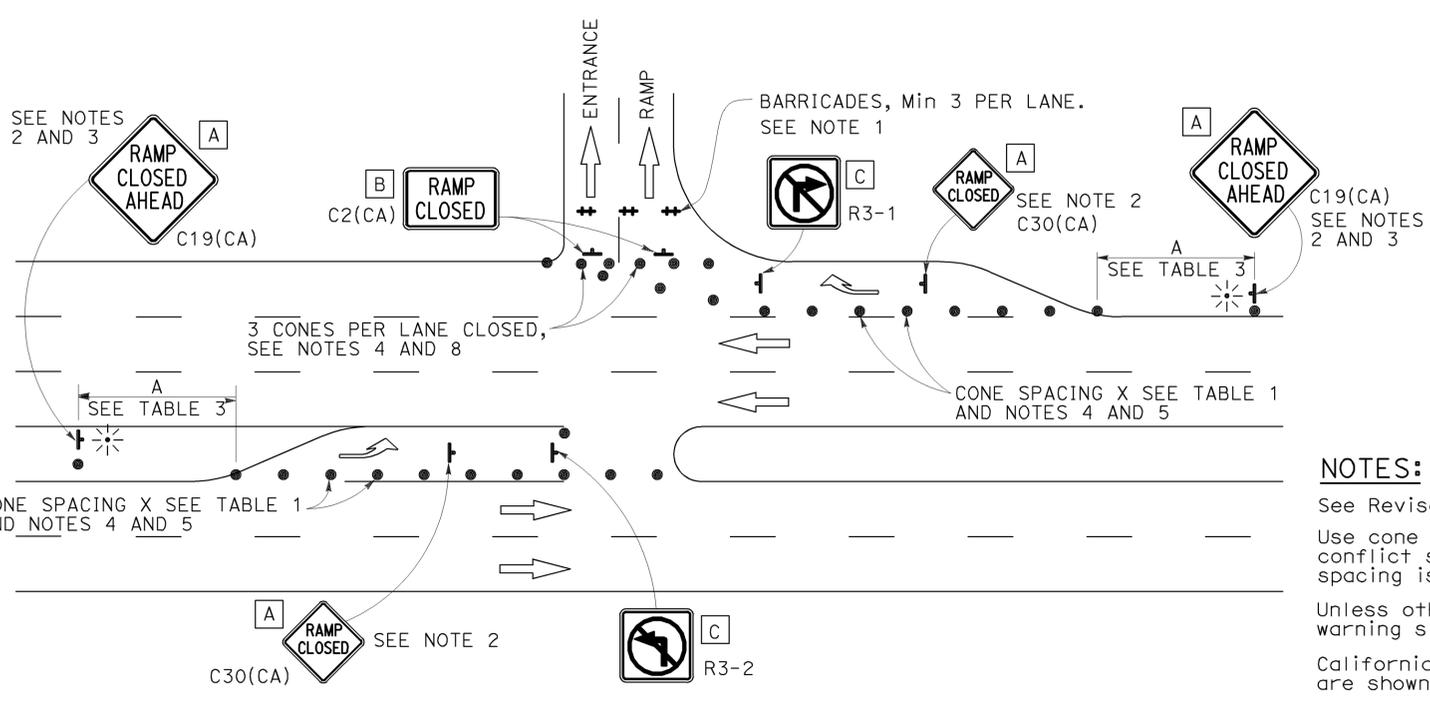
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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.



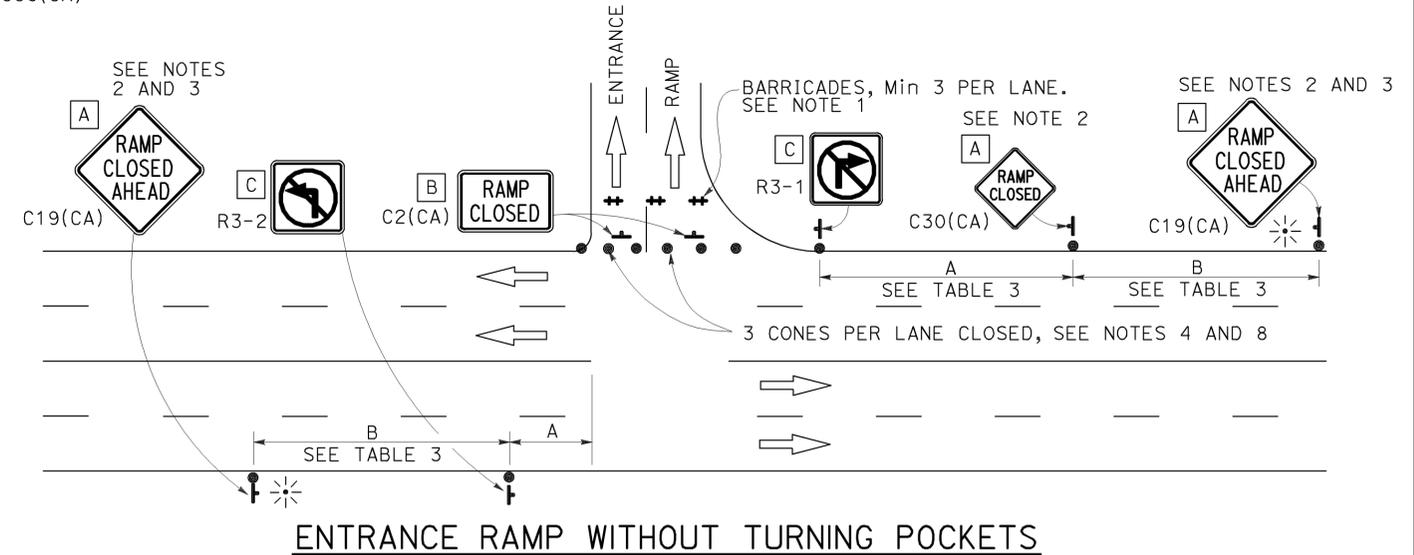
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

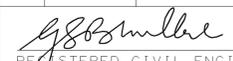
- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning 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

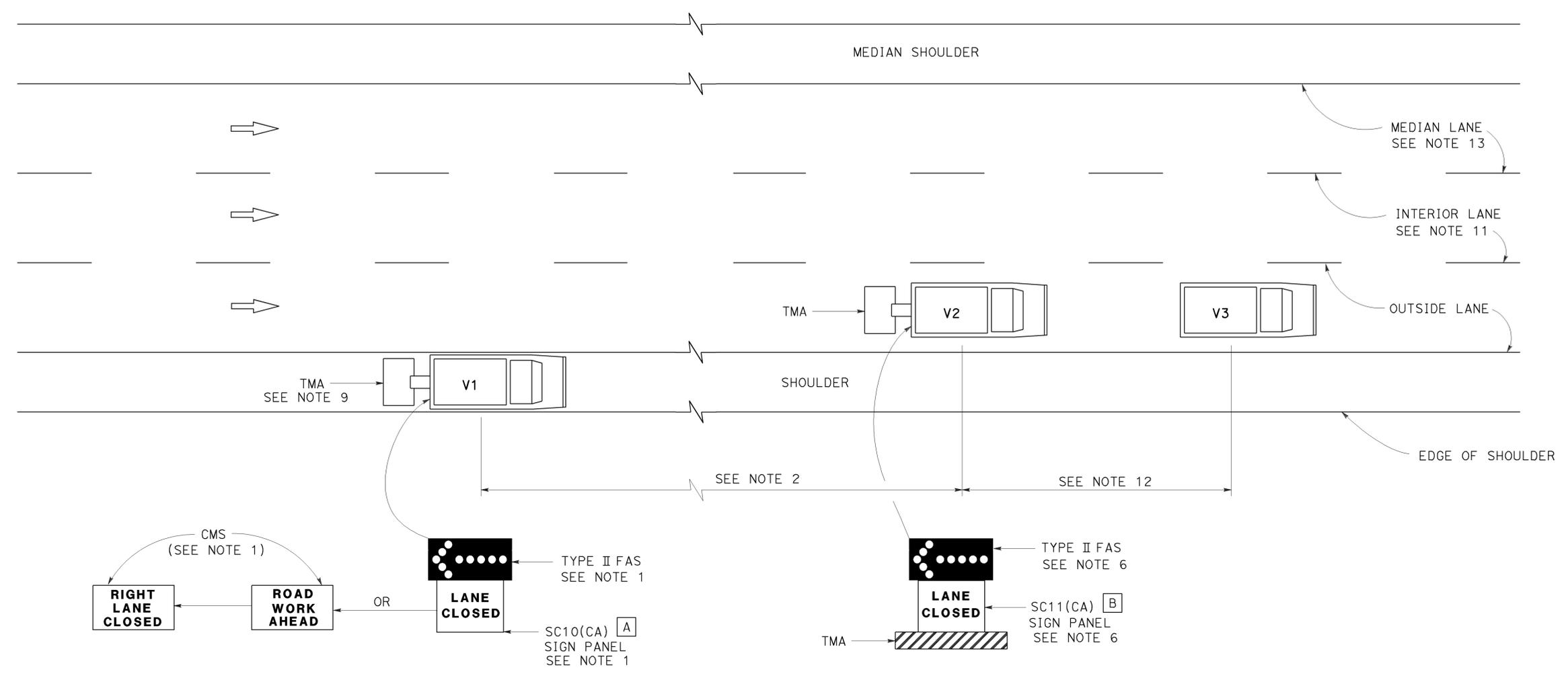
2010 REVISED STANDARD PLAN RSP T14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	16	25


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



TO ACCOMPANY PLANS DATED 12-29-14



SIGN PANEL SIZE (Min)

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

LEGEND

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

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

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

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

REVISED STANDARD PLAN RSP T15

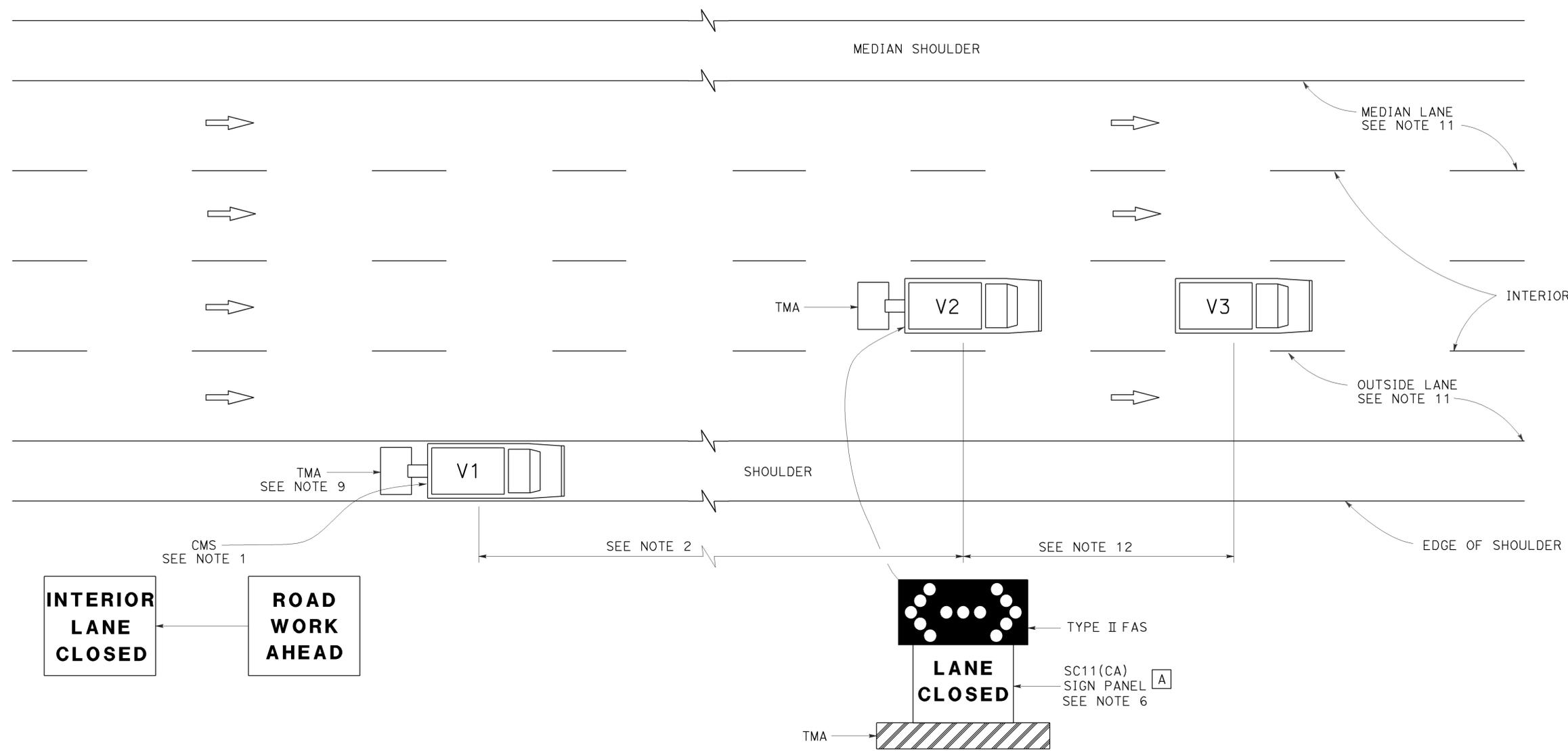
2010 REVISED STANDARD PLAN RSP T15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	17	25

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 12-29-14



SIGN PANEL SIZE (Min)

A 54" x 42"

LEGEND

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

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11 etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on median lane or outside lane of multilane highways, use Revised Standard Plan T15.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.

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

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

REVISED STANDARD PLAN RSP T16

2010 REVISED STANDARD PLAN RSP T16

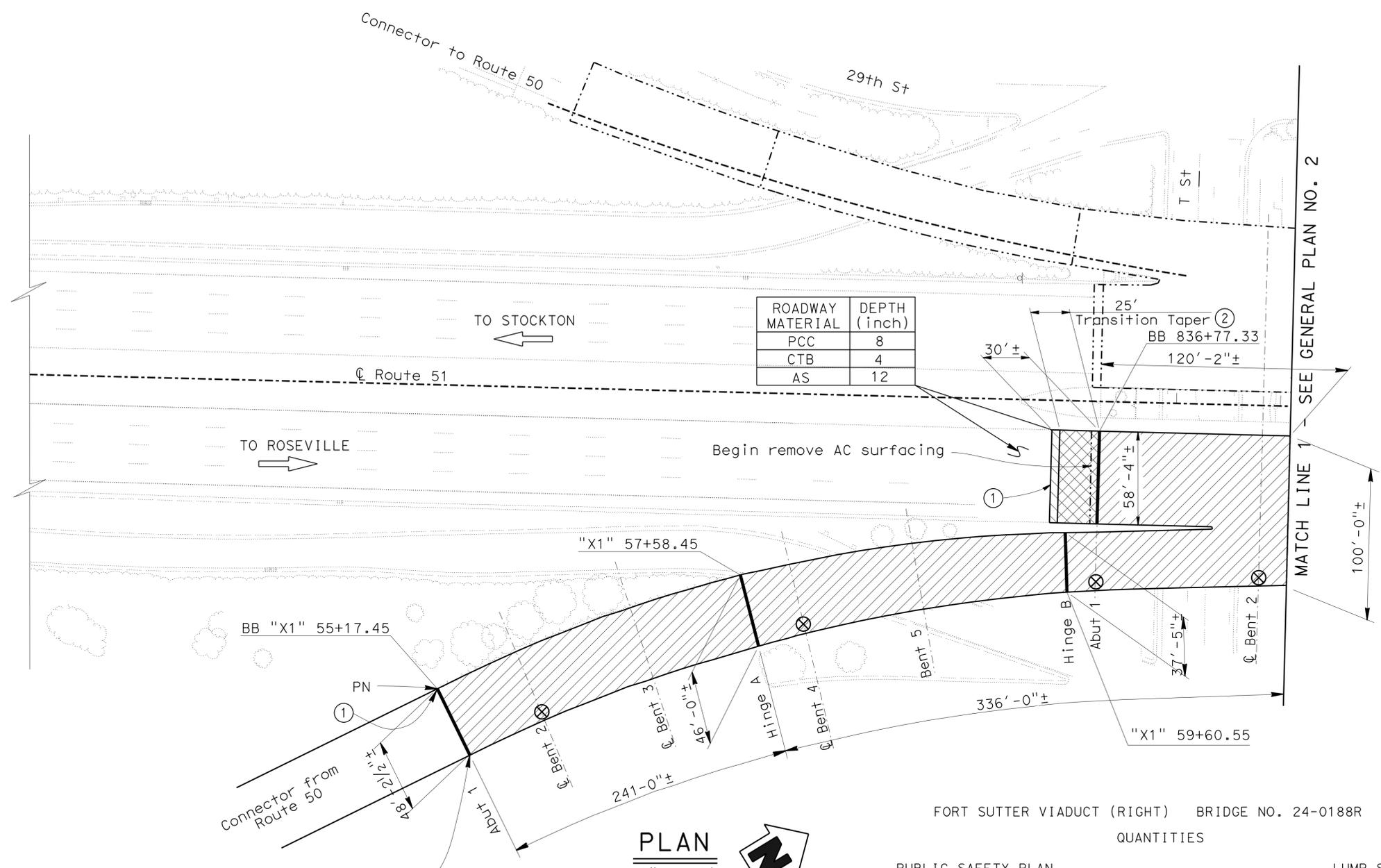
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	18	25

Charles R. Hutchinson 10-16-14
 REGISTERED CIVIL ENGINEER DATE

12-29-14
 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
 CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA



- NOTES: (APPLY TO ALL SHEETS)**
- Indicates existing.
- NOTES: (APPLY TO THIS SHEET ONLY)**
- ▨ Indicates limits of remove existing 1"± OGAC surfacing, remove unsound concrete and patch with rapid setting concrete prior to placing 1" min depth polyester concrete overlay and polyester concrete expansion dams. For details, see MISCELLANEOUS DETAILS NO. 1 and NO. 2, sheets.
 - Indicates limits of remove existing joint seal, clean expansion joint and place new joint seal. For details, see MISCELLANEOUS DETAILS NO. 1 sheet.
 - ▨ Indicates limits of remove existing approach pavement and place new Structure Approach Type R(30S). For details, see "STRUCTURE APPROACH TYPE R(30S) sheet.
 - ① See Roadway Plans for conform details.
 - ② Remove concrete deck surface to establish a transition taper from the structure to roadway. For details, see "MISCELLANEOUS DETAILS NO. 2" sheet.
 - ⊗ Indicates location of down drains to be cleaned.

INDEX TO PLANS

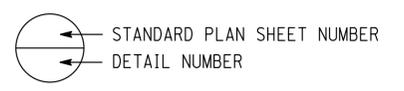
SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	MISCELLANEOUS DETAILS NO. 1
7	MISCELLANEOUS DETAILS NO. 2
8	STRUCTURE APPROACH TYPE R(30S)

QUANTITIES

	LUMP	SUM
PUBLIC SAFETY PLAN		
RAPID SETTING CONCRETE (PATCH)	10,100	CF
REMOVE ASPHALT CONCRETE SURFACING	401,600	SQFT
REMOVE CONCRETE DECK SURFACE	1,460	SQFT
CLEAN BRIDGE DECK DRAIN	48	EA
REMOVE UNSOUND CONCRETE	10,100	CF
POLYESTER CONCRETE EXPANSION DAM	14	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	401,600	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	40,160	CF
PLACE POLYESTER CONCRETE OVERLAY	401,600	SQFT
AGGREGATE BASE (APPROACH SLAB)	7	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	65	CY
CLEAN EXPANSION JOINT	1,529	LF
JOINT SEAL (MR 1/2")	49	LF
JOINT SEAL (MR 1")	158	LF
JOINT SEAL (MR 1 1/2")	136	LF
JOINT SEAL (MR 2")	1,105	LF
JOINT SEAL (MR 2 1/2")	81	LF

STANDARD PLANS DATED MAY 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



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

 10-16-14 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	LAYOUT	BY Trung Lam
	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong	SPECIFICATIONS	BY Wanda Ward

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	24-0188R
		POST MILE
		0.2/1.1

FORT SUTTER VIADUCT GENERAL PLAN NO. 1		REVISION DATES	SHEET	OF
		11-05-14 9-25-14 10-16-14	1	8

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	19	25

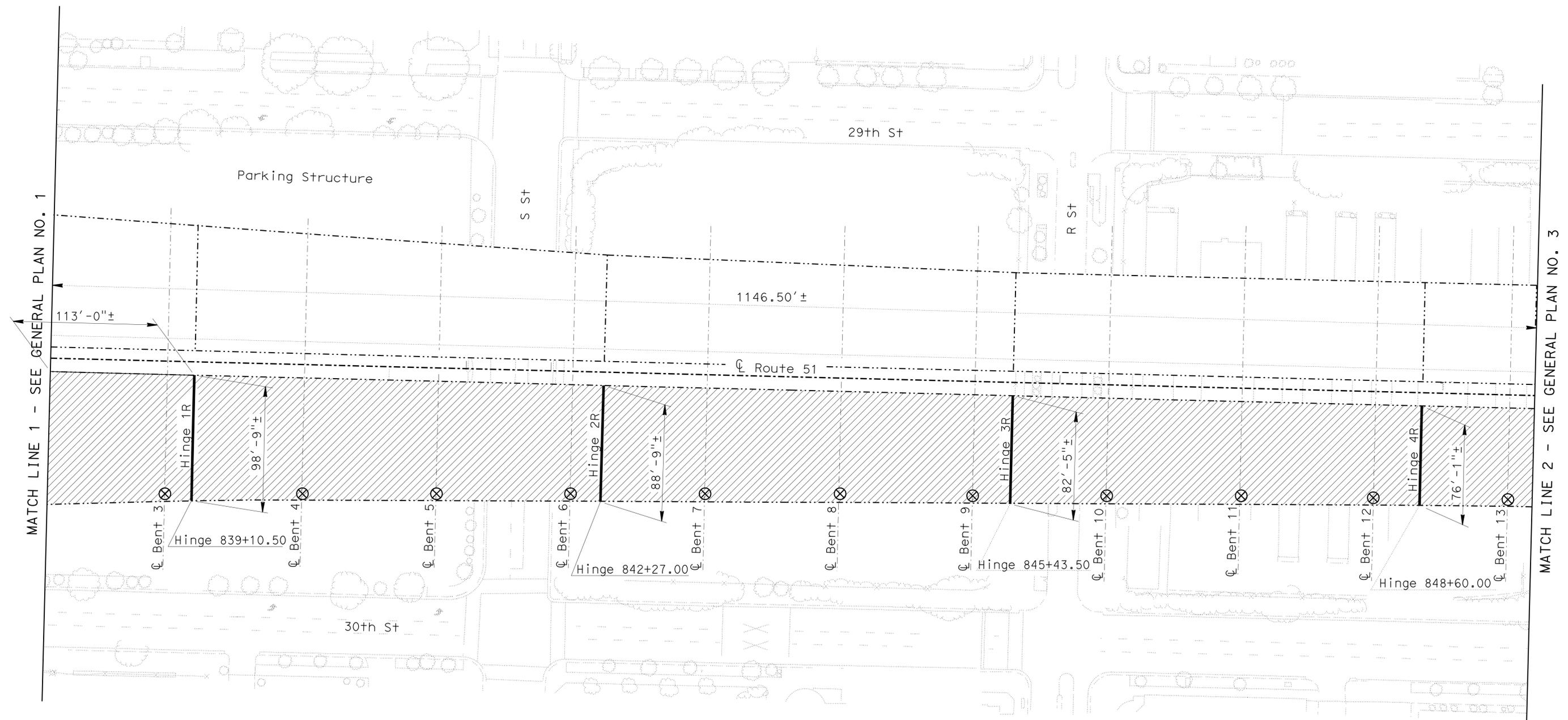
Charles R. Hutchinson 10-16-14
 REGISTERED CIVIL ENGINEER DATE

12-29-14
 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.

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates limits of remove existing 1"± OGAC surfacing, remove unsound concrete and patch with rapid setting concrete prior to placing 1" min depth polyester concrete overlay and polyester concrete expansion dams. For details, see MISCELLANEOUS DETAILS NO. 1 and NO. 2, sheets.
- Indicates limits of remove existing joint seal, clean expansion joint and place new joint seal. For details, see MISCELLANEOUS DETAILS NO. 1 sheet.
- Indicates location of down drains to be cleaned.



PLAN
 1" = 40'

 DESIGN ENGINEER 10-16-14	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	FORT SUTTER VIADUCT GENERAL PLAN NO. 2				
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	LAYOUT	BY Trung Lam		CHECKED Charles Hutchinson				24-0188R	
	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong	SPECIFICATIONS	BY Wanda Ward		CHECKED Wanda Ward				POST MILE	0.2/1.1
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						UNIT: 3488	PROJECT NUMBER & PHASE: 0000001635 N CONTRACT NO.: 03-3F0801		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	SHEET 2 OF 8

USERNAME => s119538 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 13:44

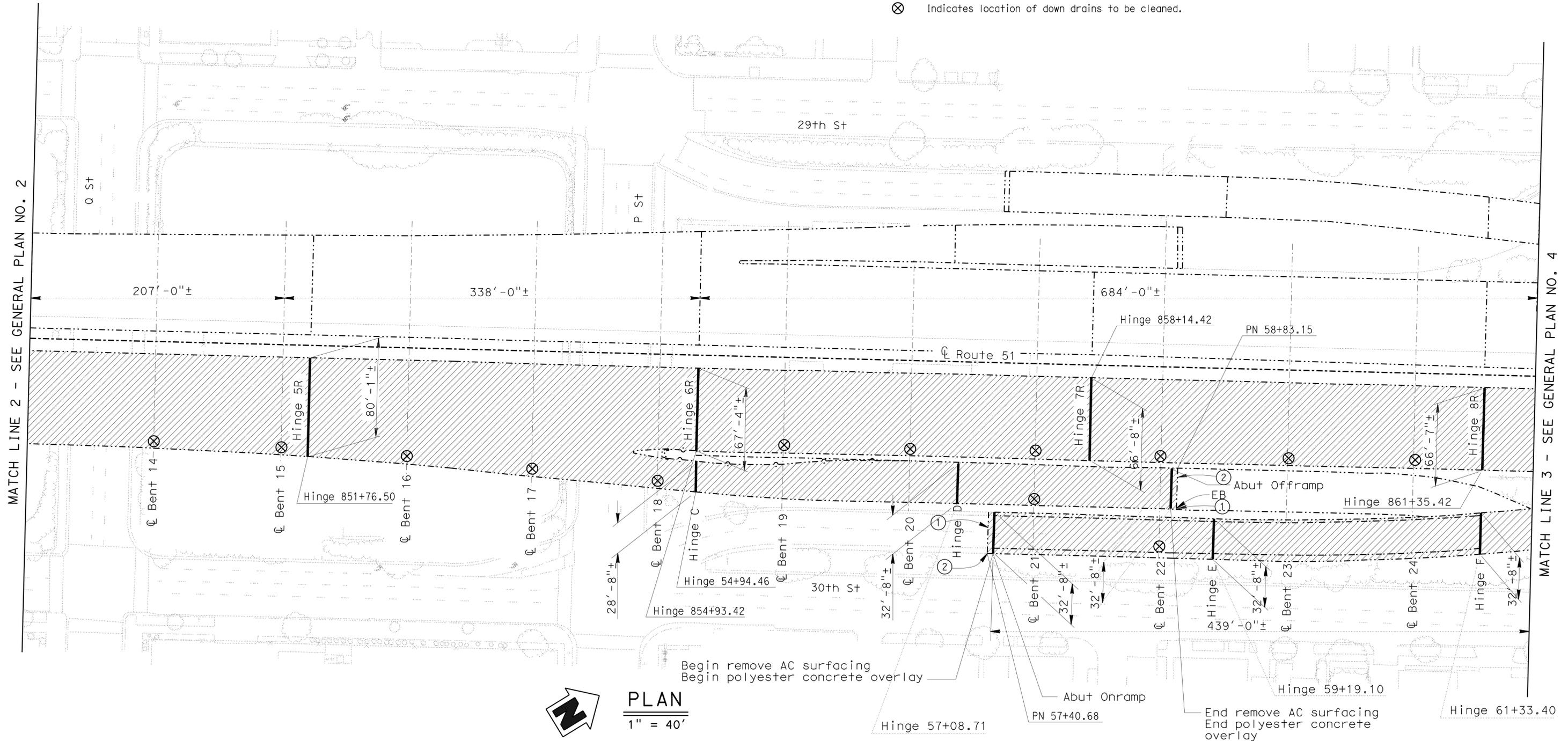
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	20	25

Charles R. Hutchinson
 REGISTERED CIVIL ENGINEER
 DATE 10-16-14
 PLANS APPROVAL DATE 12-29-14

CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA

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

- NOTES: (APPLY TO THIS SHEET ONLY)
-  Indicates limits of remove existing 1"± OGAC surfacing, remove unsound concrete and patch with rapid setting concrete prior to placing 1" min depth polyester concrete overlay and polyester concrete expansion dams. For details, see MISCELLANEOUS DETAILS NO. 1 and NO. 2, sheets.
 -  Indicates limits of remove existing joint seal, clean expansion joint and place new joint seal. For details, see MISCELLANEOUS DETAILS NO. 1 sheet.
 - ① Replace expansion dam on roadway side of joint. See MISCELLANEOUS DETAILS sheet.
 - ② See Road Plans for conform details.
 - ⊗ Indicates location of down drains to be cleaned.



MATCH LINE 2 - SEE GENERAL PLAN NO. 2

MATCH LINE 3 - SEE GENERAL PLAN NO. 4


 DESIGN ENGINEER
 10-16-14

DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong
DETAILS	BY Trung Lam	CHECKED Khanh Truong
QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT	BY Trung Lam
SPECIFICATIONS	BY Wanda Ward

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	24-0188R
POST MILE	0.2/1.1

FORT SUTTER VIADUCT
GENERAL PLAN NO. 3

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
 PROJECT NUMBER & PHASE: 0000001635 N CONTRACT NO.: 03-3F0801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
11-05-14	3	8

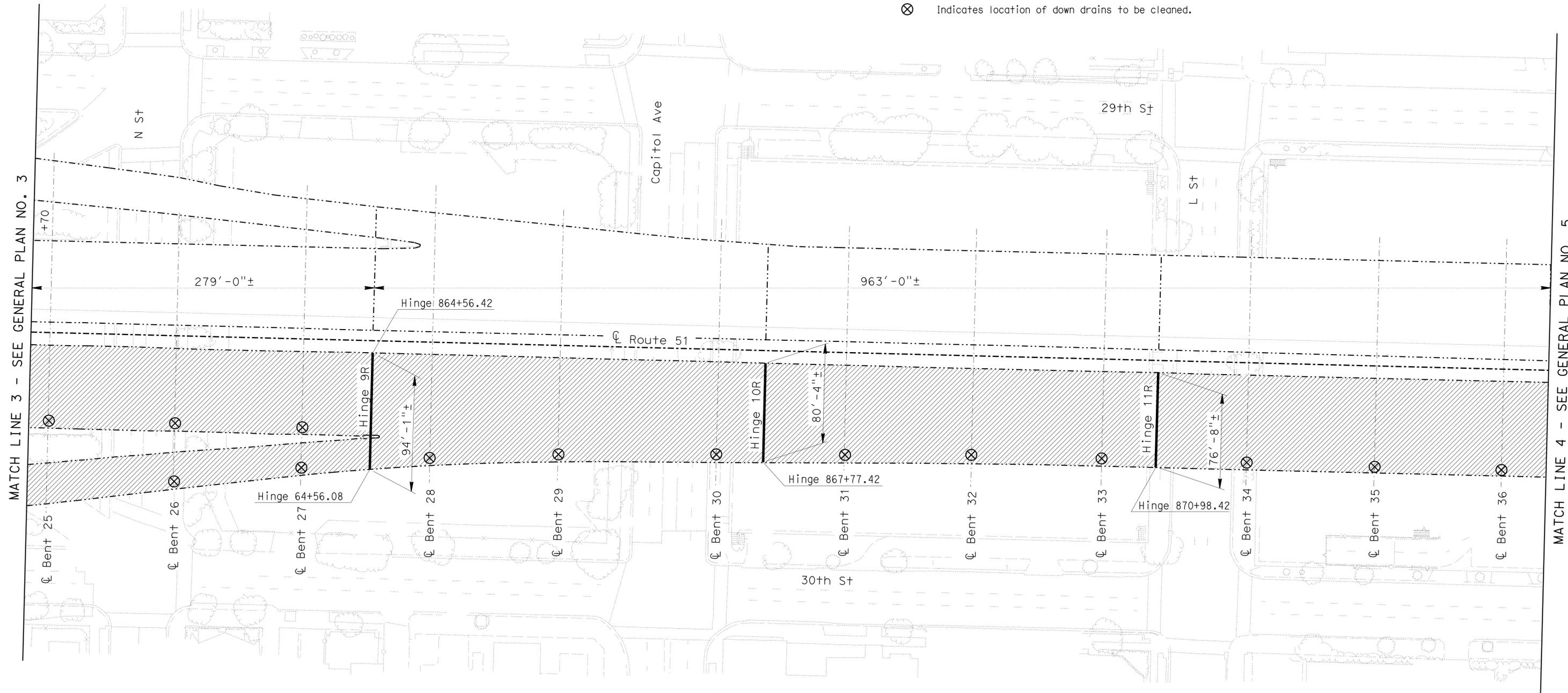
USERNAME => s119538 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 1:34:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	21	25

Charles R. Hutchinson
 REGISTERED CIVIL ENGINEER
 DATE 10-16-14
 PLANS APPROVAL DATE 12-29-14
 No. C 54226
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES: (APPLY TO THIS SHEET ONLY)

-  Indicates limits of remove existing 1"± OGAC surfacing, remove unsound concrete and patch with rapid setting concrete prior to placing 1" min depth polyester concrete overlay and polyester concrete expansion dams. For details, see MISCELLANEOUS DETAILS NO. 1 and NO. 2, sheets.
-  Indicates limits of remove existing joint seal, clean expansion joint and place new joint seal. For details, see MISCELLANEOUS DETAILS NO. 1 sheet.
-  Indicates location of down drains to be cleaned.




PLAN
 1" = 40'

 DESIGN ENGINEER 10-16-14	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	FORT SUTTER VIADUCT GENERAL PLAN NO. 4					
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	LAYOUT	BY Trung Lam		CHECKED Charles Hutchinson		24-0188R				
	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong	SPECIFICATIONS	BY Wanda Ward		CHECKED Wanda Ward		PLANS AND SPECS COMPARED	POST MILE 0.2/1.1			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3488	PROJECT NUMBER & PHASE: 0000001635 N	CONTRACT NO.: 03-3F0801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 4	OF 8

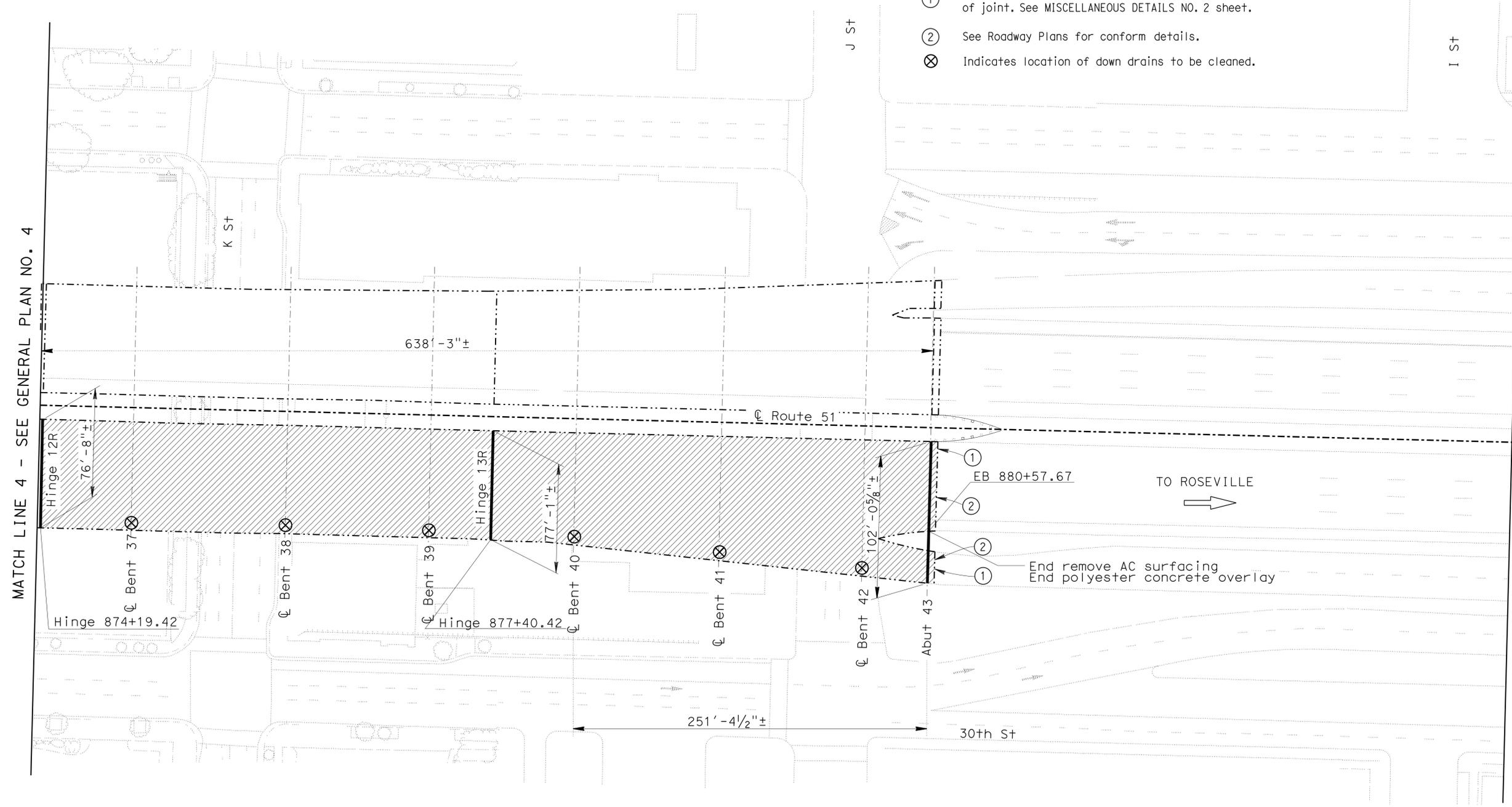
USERNAME => s119538 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 1:31:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	22	25

Charles R. Hutchinson
 REGISTERED CIVIL ENGINEER DATE 10-16-14
 12-29-14
 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.

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates limits of remove existing 1"± OGAC surfacing, remove unsound concrete and patch with rapid setting concrete prior to placing 1" min depth polyester concrete overlay and polyester concrete expansion dams. For details, see MISCELLANEOUS DETAILS NO. 1 and NO. 2, sheets.
- Indicates limits of remove existing joint seal, clean expansion joint and place new joint seal. For details, see MISCELLANEOUS DETAILS NO. 1 sheet.
- ① Replace expansion dam on roadway side of joint. See MISCELLANEOUS DETAILS NO. 2 sheet.
- ② See Roadway Plans for conform details.
- ⊗ Indicates location of down drains to be cleaned.



MATCH LINE 4 - SEE GENERAL PLAN NO. 4

PLAN
1" = 40'

 DESIGN ENGINEER 10-16-14	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 24-0188R POST MILE 0.2/1.1	FORT SUTTER VIADUCT GENERAL PLAN NO. 5
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	LAYOUT	BY Trung Lam			
	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong	SPECIFICATIONS	BY Wanda Ward	CHECKED Wanda Ward	PLANS AND SPECS COMPARED	

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

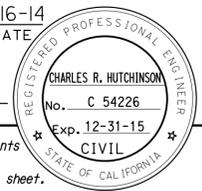
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3488
PROJECT NUMBER & PHASE: 0002001635 N CONTRACT NO.: 03-3F0801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
11-05-14	5	8

FILE => 03-3F0801_05_gp5.dgn

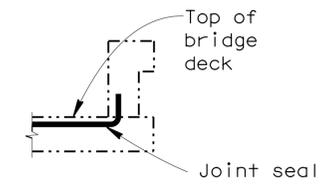
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	23	25
 REGISTERED CIVIL ENGINEER			10-16-14 DATE		
12-29-14 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

JOINT SEAL TABLE				
LOCATION	MINIMUM "MR" (Inches)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (Inches)	APPROX LENGTH EXP JOINT (ft)
Abut 1R BW	1	NO	12	59
Hinge 1R	2	NO	12	99
Hinge 2R	2	NO	12	89
Hinge 3R	2	NO	12	83
Hinge 4R	2	NO	12	77
Hinge 5R	2	NO	12	81
Hinge 6R	2	NO	12	68
Hinge 7R	2	NO	12	67
Hinge 8R	2	NO	12	67
Hinge 9R	2	NO	12	95
Hinge 10R	2 1/2	NO	12	81
Hinge 11R	2	NO	12	77
Hinge 12R	2	NO	12	77
Hinge 13R	2	NO	12	78
Abut 43R BW	1 1/2	NO	12	103
Abut (Connector from Route 50)	1/2	NO	12	49
Hinge A (Connector from Route 50)	2	NO	12	47
Hinge B (Connector from Route 50)	2	NO	12	38
Hinge C (Offramp at "N" Street)	2	NO	12	29
Hinge D (Offramp at "N" Street)	1	NO	12	33
Abut (Offramp at "N" Street)	1	NO	12	33
Abut (Onramp at "P" Street)	1	NO	12	33
Hinge E (Onramp at "P" Street)	1 1/2	NO	12	33
Hinge F (Onramp at "P" Street)	2	NO	12	33

DECK REPAIR TABLE			
Remove Unsound Concrete And Rapid Setting Patch			
BRIDGE NAME	BRIDGE NUMBER	APPROX AREA DAMAGED (%)	APPROX DEPTH (Inches)
Fort Sutter Viaduct	24-0188R	10	3

Location to be determined by the Engineer.

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



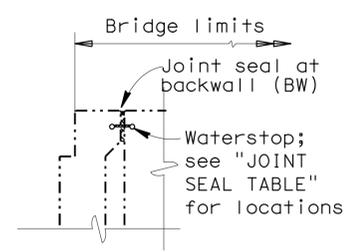
BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

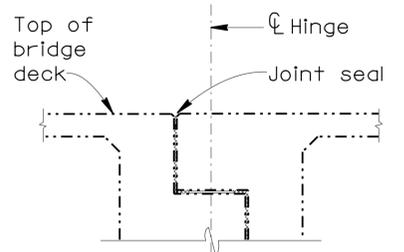
Notes: Details shown for illustration purposes only.
For use only where deck joint matches the sidewalk, curb or barrier rail joint.

LEGEND:
BW = Abutment backwall

Note:
All joint seals to be Type B.

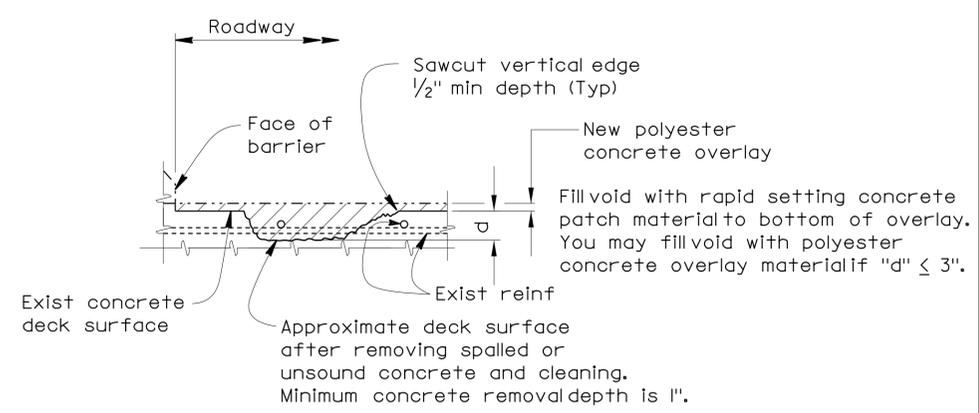


ABUTMENT WITH BACKWALL



HINGE OR EXPANSION JOINT

JOINT SEAL LOCATION



DECK REPAIR DETAIL

Note: Reinforcement may be encountered during deck concrete removal.
NO SCALE

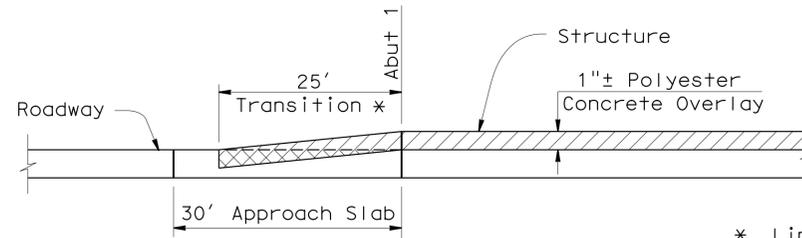
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	24-0188R	FORT SUTTER VIADUCT MISCELLANEOUS DETAILS NO. 1						
	DETAILS	BY Trung Lam	CHECKED Khanh Truong			POST MILE	0.2/1.1							
	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong											
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0	1	2	3	UNIT: 3488	PROJECT NUMBER & PHASE: 0000001635 N	CONTRACT NO.: 03-3F0801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 5-27-12 9-5-14 10-16-14 11-05-14	SHEET 6	OF 8

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	51	0.2/1.1	24	25

Charles R. Hutchinson
 REGISTERED CIVIL ENGINEER
 DATE 10-16-14
 12-29-14
 PLANS APPROVAL DATE
 CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NUMBER	APPROXIMATE LOCATION OF DOWN DRAIN	APPROXIMATE LENGTH OF CLEANOUT (ft)
1	RTE 50/51 Connector Ramp, Bent 1	40
2	RTE 50/51 Connector Ramp, Bent 3	40
3	RTE 51 Auxiliary Lane, Abut 1	100
4	RTE 51 Auxiliary Lane, Bent 2	100
5	RTE 51 Auxiliary Lane, Bent 3	96
6	RTE 51 Auxiliary Lane, Bent 4	92
7	RTE 51 Auxiliary Lane, Bent 5	88
8	RTE 51 Auxiliary Lane, Bent 6	86
9	RTE 51 Auxiliary Lane, Bent 7	85
10	RTE 51 Auxiliary Lane, Bent 8	85
11	RTE 51 Auxiliary Lane, Bent 9	85
12	RTE 51 Auxiliary Lane, Bent 10	85
13	RTE 51 Auxiliary Lane, Bent 11	85
14	RTE 51 Auxiliary Lane, Bent 12	85
15	RTE 51 Auxiliary Lane, Bent 13	85
16	RTE 51 Auxiliary Lane, Bent 14	85
17	RTE 51 Auxiliary Lane, Bent 15	85
18	RTE 51 Auxiliary Lane, Bent 16	86
19	RTE 51 Auxiliary Lane, Bent 17	88
20	RTE 51 Auxiliary Lane, Bent 18	92
21	RTE 51 Mainline, Bent 19	72
22	Rte 51 Mainline, Bent 20	72
23	Rte 51 Mainline, Bent 21	72
24	N Street Off-Ramp, Bent 21	14
25	RTE 51 Mainline, Bent 22	72
26	P Street On-Ramp, Bent 22	15
27	RTE 51 Mainline, Bent 23	72
28	RTE 51 Mainline, Bent 24	72
29	RTE 51 Mainline, Bent 25	72
30	RTE 51 Mainline, Bent 26	72
31	P Street On-ramp, Bent 26	27
32	RTE Mainline, Bent 27	72
33	P Street On-ramp, Bent 27	30
34	RTE 51 Auxiliary Lane, Bent 28	87
35	RTE 51 Auxiliary Lane, Bent 29	85
36	RTE 51 Auxiliary Lane, Bent 30	83
37	RTE 51 Auxiliary Lane, Bent 31	81
38	RTE 51 Auxiliary Lane, Bent 32	81
39	RTE 51 Auxiliary Lane, Bent 33	81
40	RTE 51 Auxiliary Lane, Bent 34	81
41	RTE 51 Auxiliary Lane, Bent 35	81
42	RTE 51 Auxiliary Lane, Bent 36	81
43	RTE 51 Auxiliary Lane, Bent 37	81
44	RTE 51 Auxiliary Lane, Bent 38	81
45	RTE 51 Auxiliary Lane, Bent 39	81
46	RTE 51 Auxiliary Lane, Bent 40	83
47	RTE 51 Auxiliary Lane, Bent 41	85
48	RTE 51 Auxiliary Lane, Bent 42	87



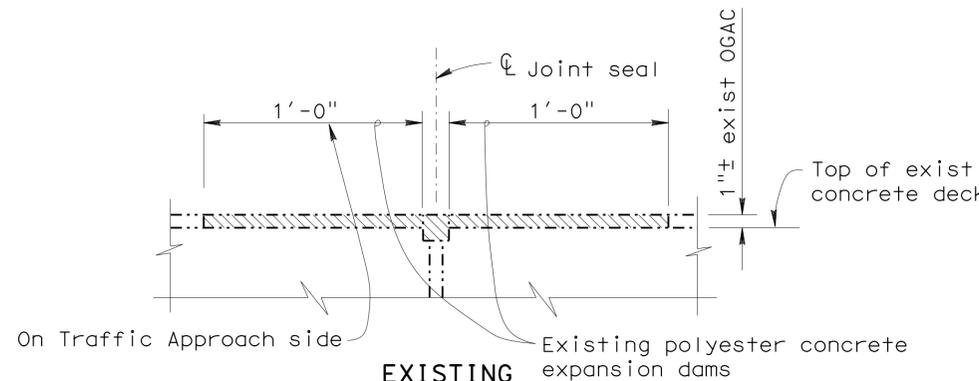
TRANSITION TAPER DETAIL

NO SCALE

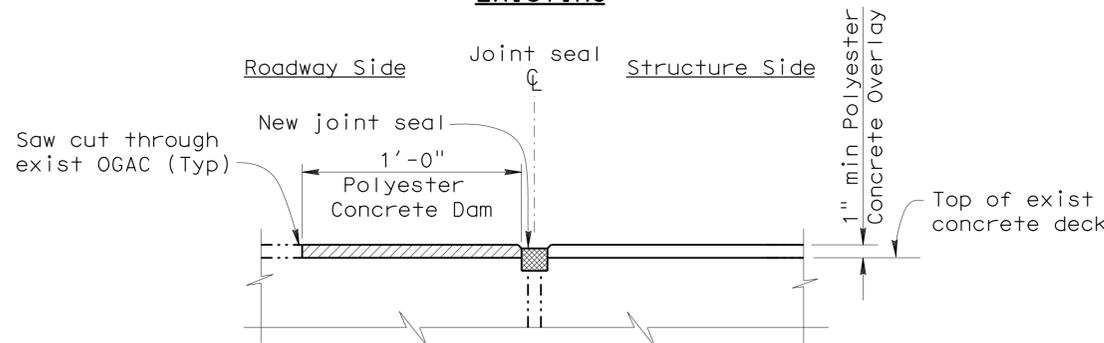
Notes:

- Polyester Concrete Overlay
- Remove concrete deck surface

* Limits of remove concrete deck surface to establish a transition taper from structure to roadway. The joint is not shown at Abut 1 for clarity.



On Traffic Approach side
EXISTING
 Existing polyester concrete expansion dams



Roadway Side Joint seal Structure Side
 New joint seal
 Polyester Concrete Dam
 1" min Polyester Concrete Overlay
 Top of exist concrete deck
RECONSTRUCTION

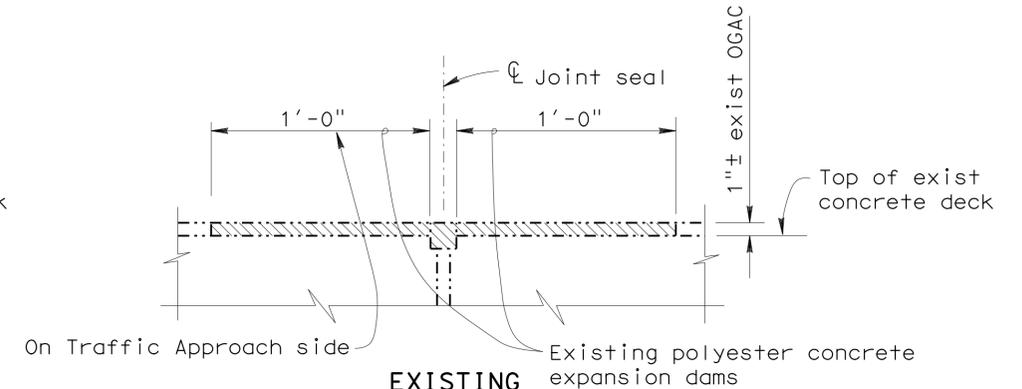
EXPANSION DAM DETAIL AT ROADWAY CONFORMS

NO SCALE

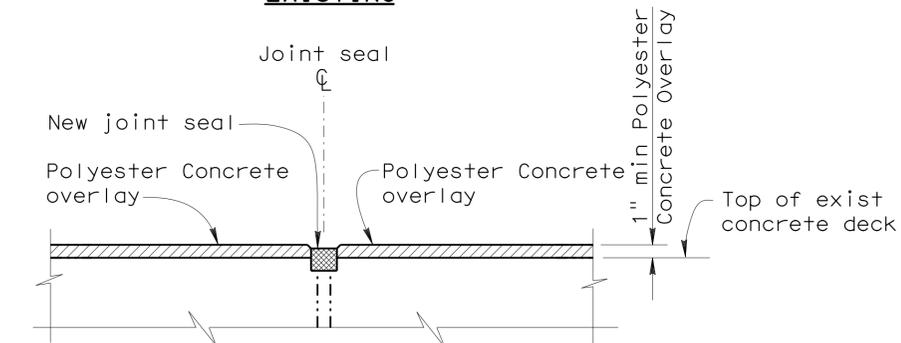
Notes:

- Indicates existing structure.
- Indicates limits of existing joint seal, polyester concrete expansion dam and AC surfacing removal.
- Indicates limits of new polyester concrete expansion dams.

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



On Traffic Approach side
EXISTING
 Existing polyester concrete expansion dams



Joint seal
 New joint seal
 Polyester Concrete overlay
 Polyester Concrete overlay
 1" min Polyester Concrete Overlay
 Top of exist concrete deck
RECONSTRUCTION

TYPICAL HINGE EXPANSION DAM DETAIL

NO SCALE

Notes:

- Indicates existing structure.
- Indicates limits of existing joint seal, polyester concrete expansion dam and AC surfacing removal.
- Indicates limits of new polyester concrete overlay.

DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong
DETAILS	BY Trung Lam	CHECKED Khanh Truong
QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

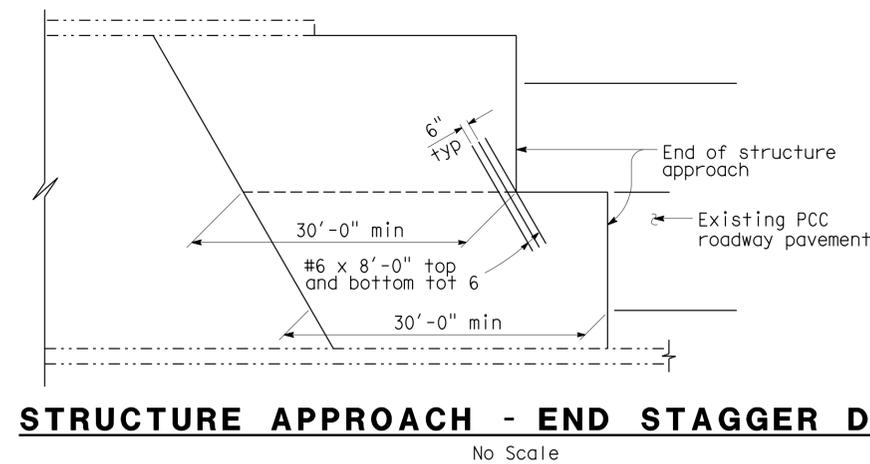
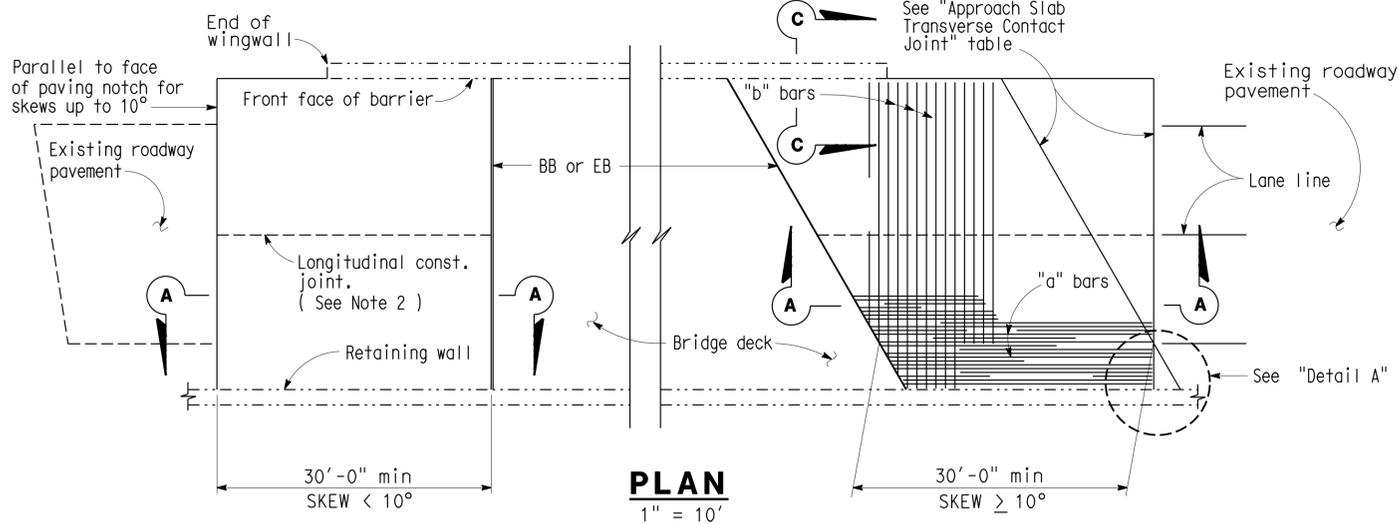
DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	24-0188R
POST MILE	0.2/1.1

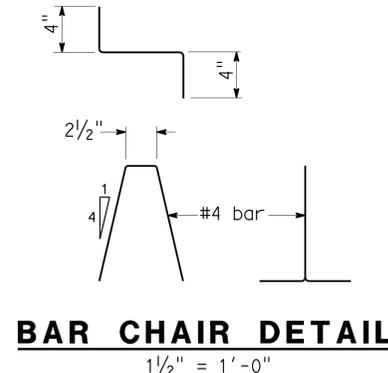
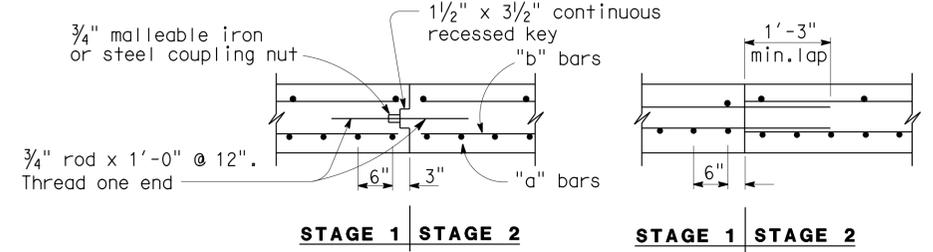
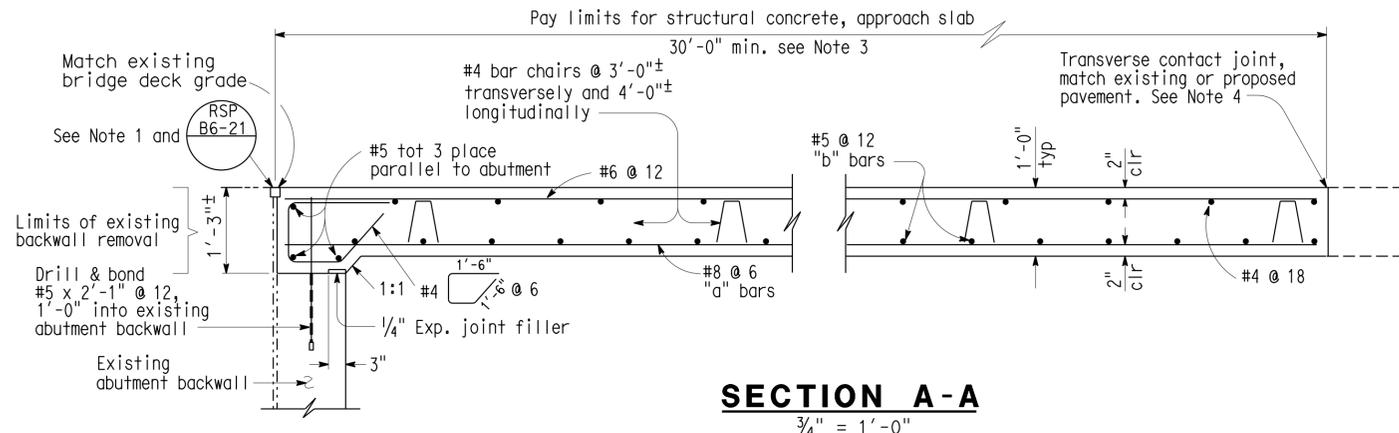
FORT SUTTER VIADUCT
 MISCELLANEOUS DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac	51	0.2/1.1	25	25

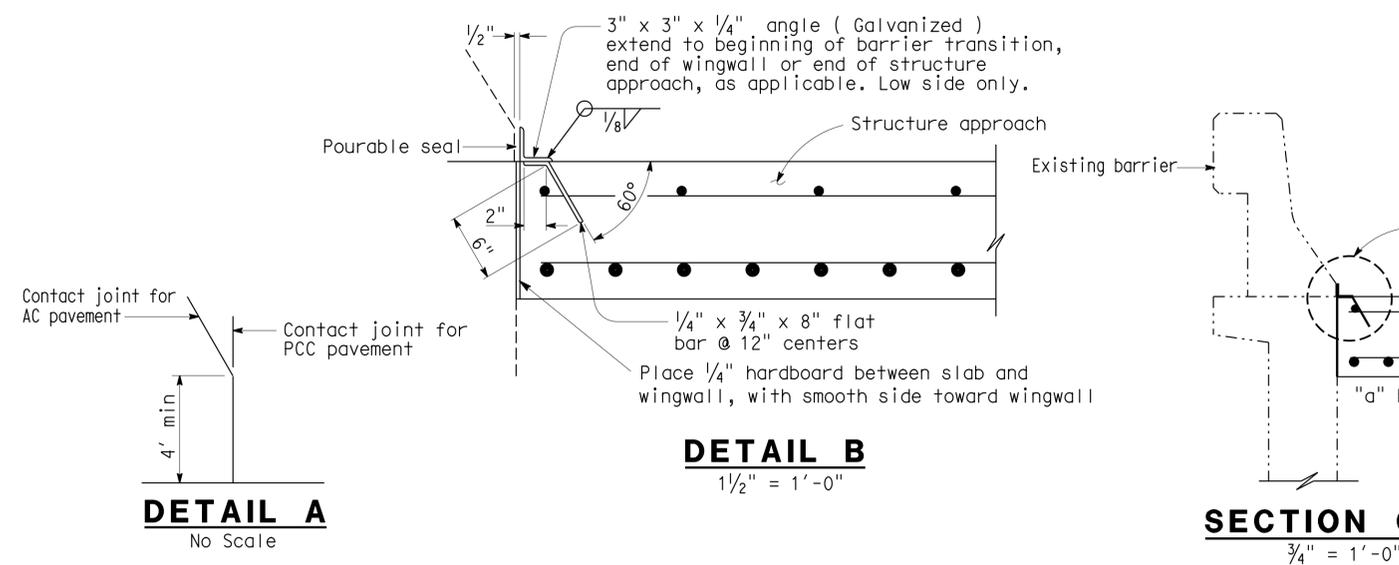
Charles R. Hutchinson
 REGISTERED CIVIL ENGINEER DATE 10-16-14
 12-29-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



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



- NOTES:**
- Sealed joint, for M.R. see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
 - Transverse contact joint shall be a minimum of 5' from an existing or constructed weakened plane joint.
 - All bar reinforcements shall be epoxy coated.



APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	Parallel to face of paving notch	Parallel to face of paving notch
10° - 45°	Parallel to face of P N use (Detail A)	Stagger lines 24' to 36' apart
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line

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

DESIGN BY Charles Hutchinson	CHECKED Khanh Truong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 24-0188R	FORT SUTTER VIADUCT STRUCTURE APPROACH TYPE R(30S)
DETAILS BY Trung Lam	CHECKED Khanh Truong		POST MILE 02/1.1	
QUANTITIES BY Charles Hutchinson	CHECKED Khanh Truong			
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)			UNIT: 3488 PROJECT NUMBER & PHASE: 0000001635 - N CONTRACT NUMBER: 03-3F0801	DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			REVISION DATES	SHEET 8 OF 8