

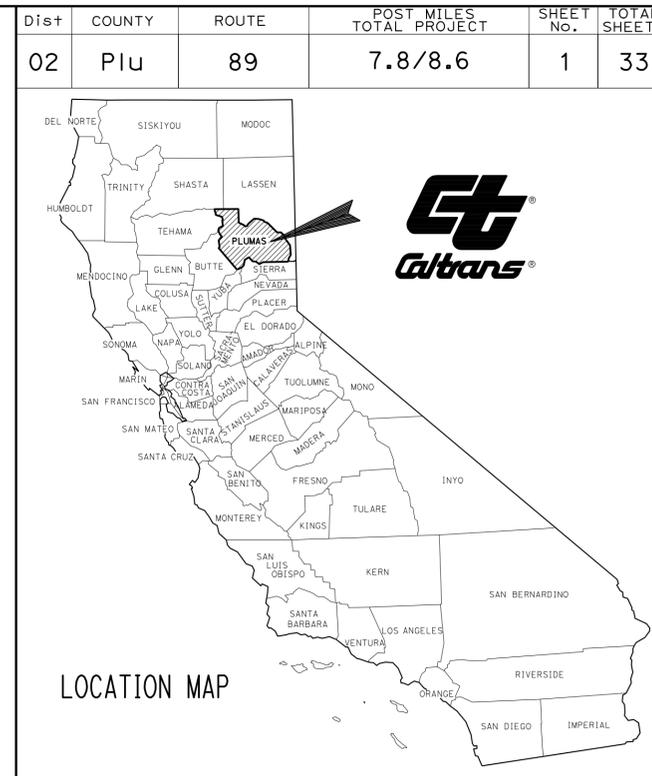
INDEX OF PLANS

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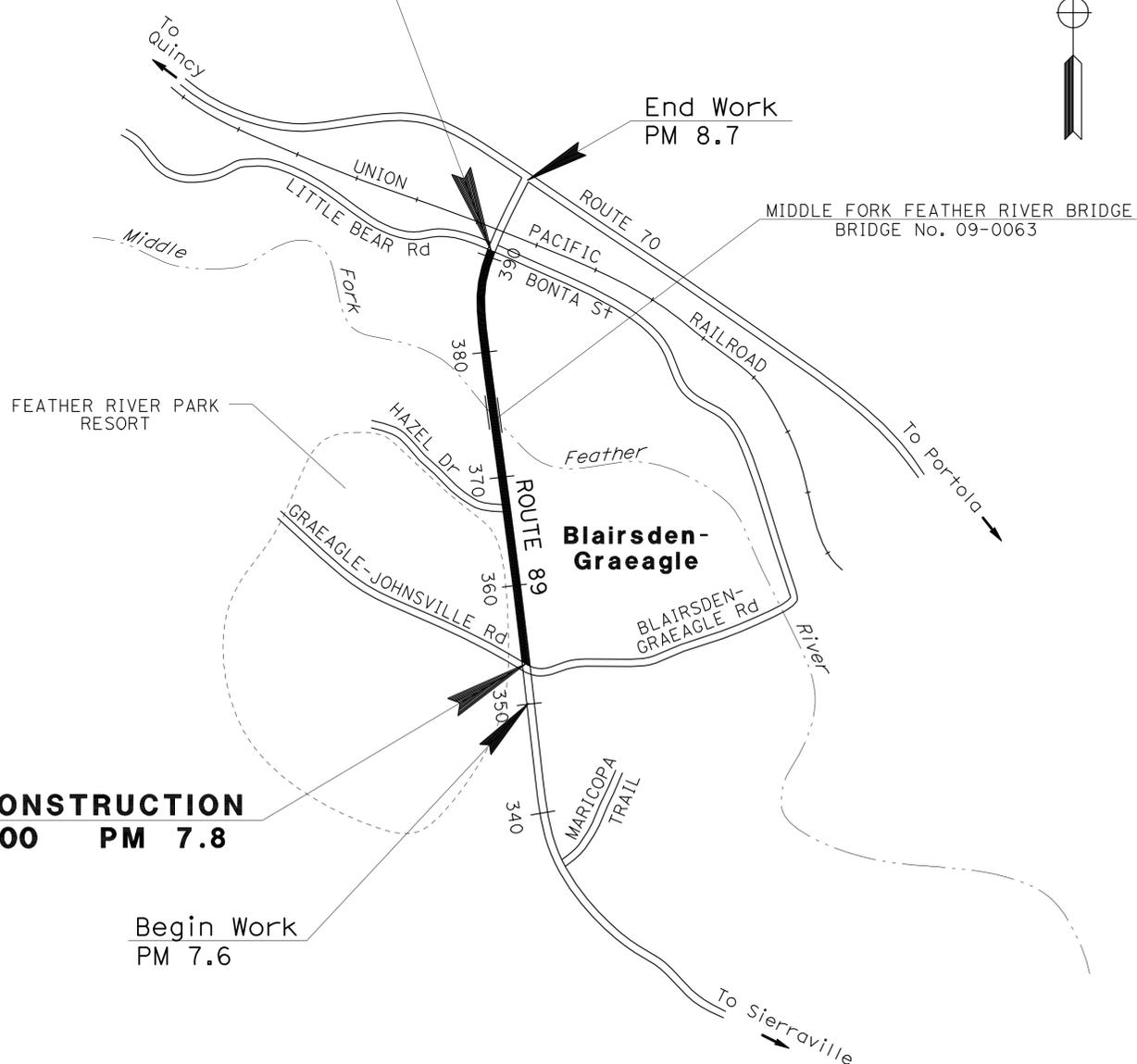
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA **ACBHSTP-P089(100)E**  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN PLUMAS COUNTY**  
**NEAR GRAEAGLE FROM 0.5 MILE SOUTH**  
**TO 0.3 MILE NORTH OF**  
**MIDDLE FORK FEATHER RIVER BRIDGE**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



**END CONSTRUCTION**  
**Sta 391+00 PM 8.6**



End Work  
PM 8.7

**BEGIN CONSTRUCTION**  
**Sta 351+00 PM 7.8**

Begin Work  
PM 7.6

NO SCALE

PROJECT MANAGER  
**ERIC ORR**  
 DESIGN ENGINEER  
**RODOLFO AVILA JR.**

*Hugo Barajas* 11-01-10  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER



**February 22, 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.

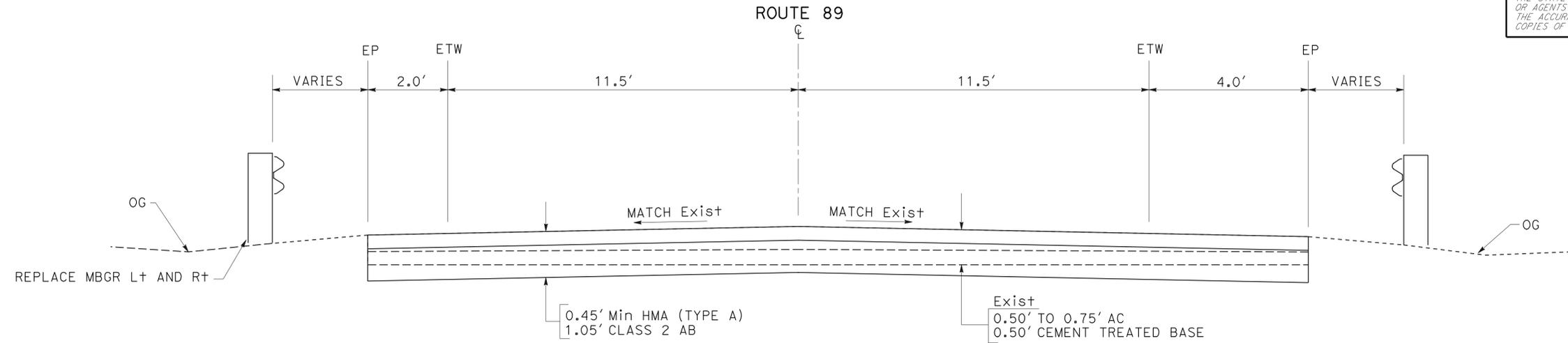
CONTRACT No.	<b>02-2C2244</b>
PROJECT ID	<b>0200020103</b>

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	PIU	89	7.8/8.6	2	33
			11-01-10 REGISTERED CIVIL ENGINEER DATE 2-22-11 PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTES:

- DIMENSIONS OF STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.



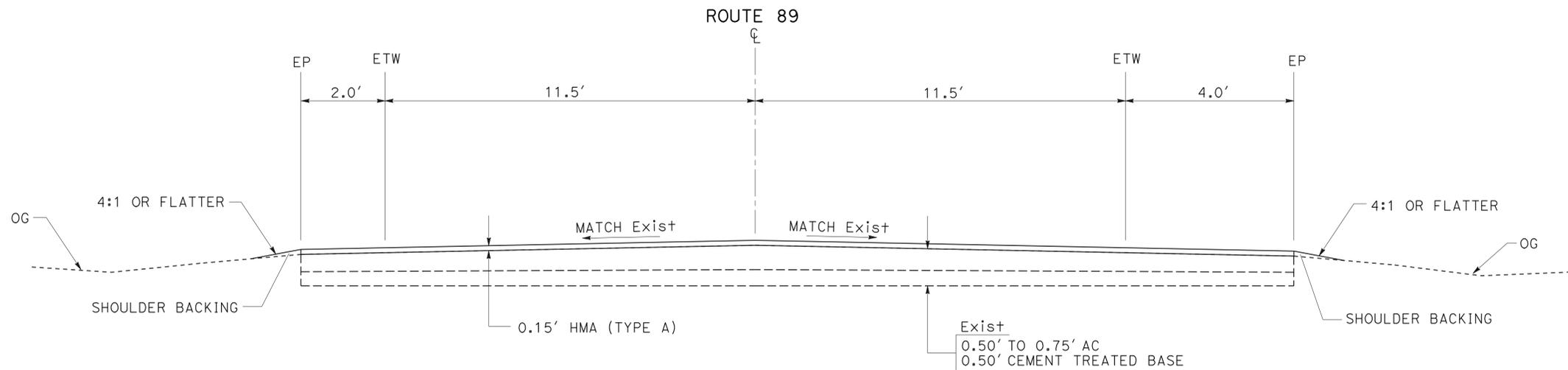
Sta "A1" 373+00.7 TO "A1" 373+36.7  
Sta "A1" 375+55.8 TO "A1" 375+91.8

DESIGN DESIGNATION

10 YEAR TI = 8.5      DHU (2021) = 540  
 20 YEAR TI = 9.0      DHU (2031) = 600

ADT (2011) = 2,690      T=10%  
 ADT (2021) = 3,000  
 ADT (2031) = 3,350

D=53%



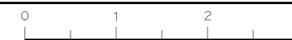
Sta "A1" 351+00 TO "A1" 373+00.7  
Sta "A1" 375+91.8 TO "A1" 391+00

HMA OVERLAY

TYPICAL CROSS SECTIONS

NO SCALE

X-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu	89	7.8/8.6	3	33

HUGO BARAJAS 11-01-10  
 REGISTERED CIVIL ENGINEER DATE  
 2-22-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 HUGO BARAJAS  
 No. 64575  
 Exp. 6-30-11  
 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.

**NOTE:**

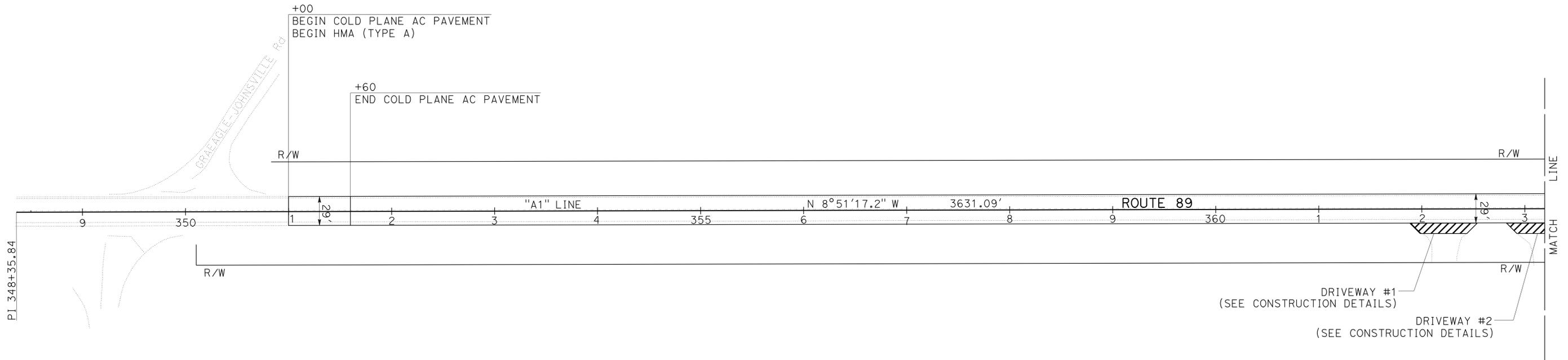
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,  
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**LEGEND**

- ESA FENCE
- CLEARING AND GRUBBING
- CONFORM DRIVEWAYS

**ABBREVIATIONS**

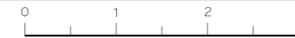
HMA HOT MIX ASPHALT



**LAYOUT**  
SCALE: 1" = 50'

**L-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>Caltrans</b>	RODOLFO AVILA JR.	H. BARAJAS	
NORTH REGION OFFICE OF DESIGN, EAST DESIGN BRANCH M7	CHECKED BY	DATE	
		R. AVILA	
	DESIGNED BY		



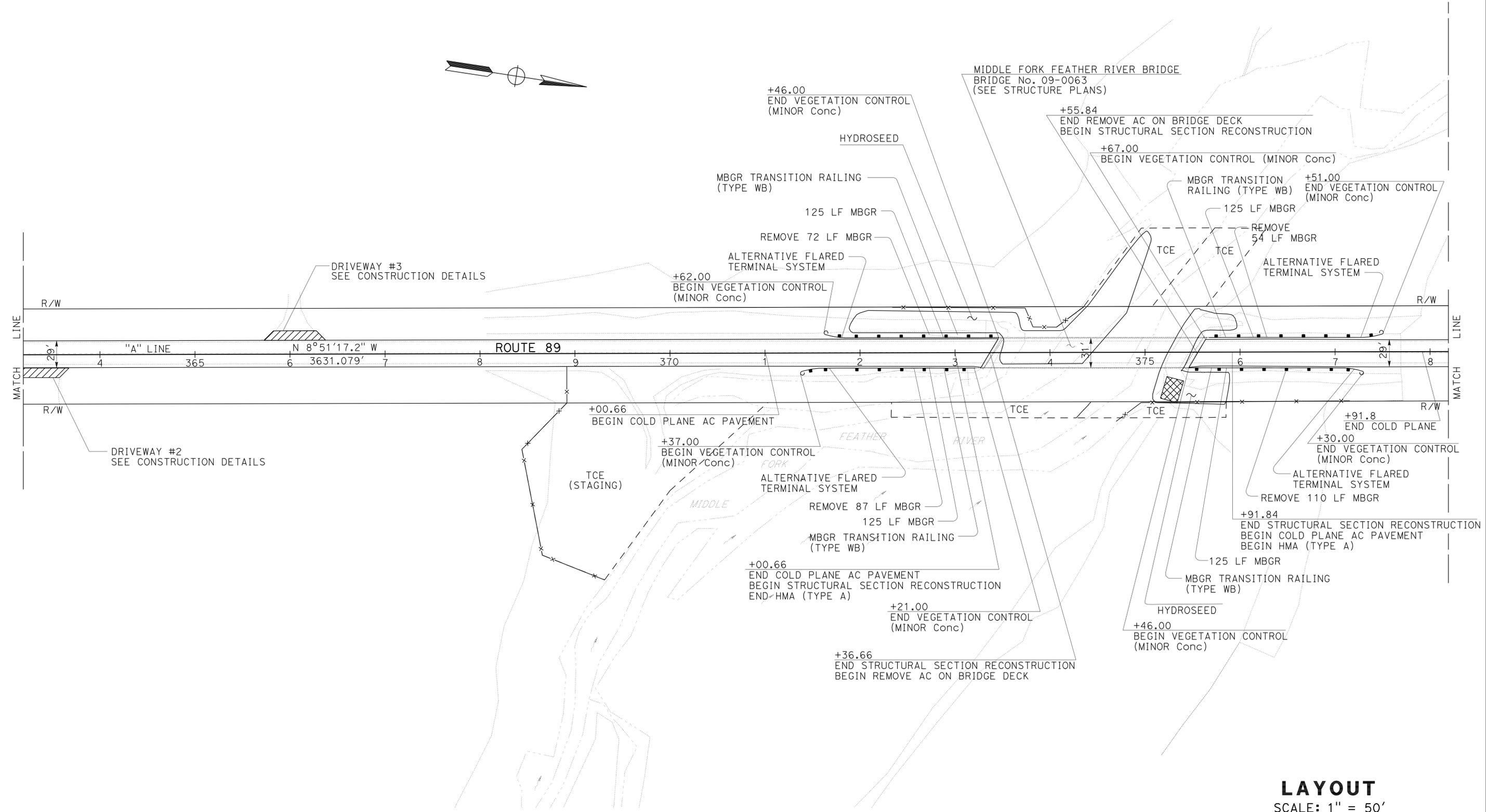
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu	89	7.8/8.6	4	33

<i>Hugo Barajas</i>	11-01-10
REGISTERED CIVIL ENGINEER	DATE
2-22-11	
PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,  
 CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 NORTH REGION OFFICE OF DESIGN, EAST DESIGN BRANCH M7  
 Caltrans  
 FUNCTIONAL SUPERVISOR: RODOLFO AVILA JR.  
 CALCULATED/DESIGNED BY: H. BARAJAS  
 CHECKED BY: R. AVILA  
 REVISED BY: H. BARAJAS  
 DATE REVISED: R. AVILA



**LAYOUT**  
 SCALE: 1" = 50'

**L-2**

LAST REVISION DATE PLOTTED => 25-FEB-2011  
 11-01-10 TIME PLOTTED => 12:56



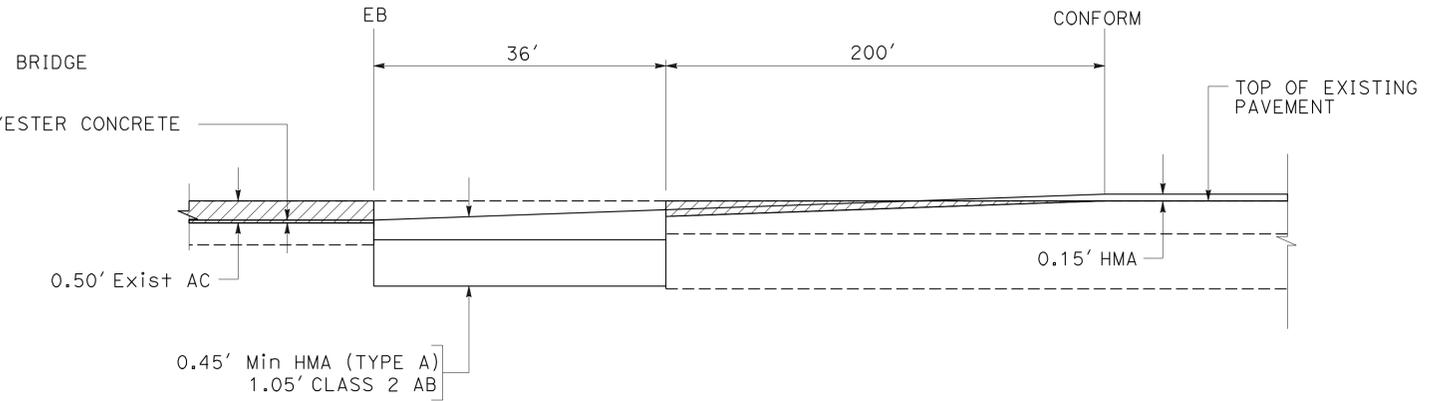
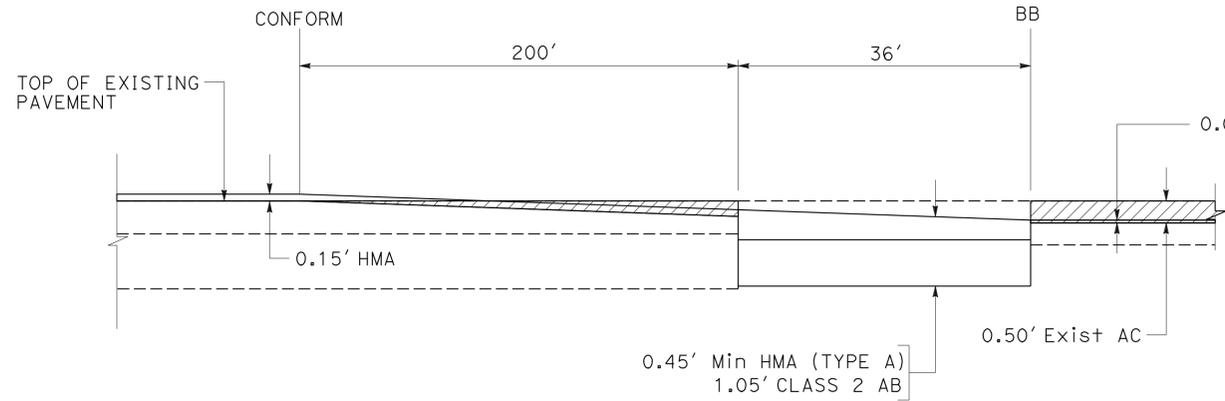
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	PIU	89	7.8/8.6	6	33
<i>Hugo Barajas</i> REGISTERED CIVIL ENGINEER		11-01-10	DATE		
2-22-11		PLANS APPROVAL DATE			
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**LEGEND**

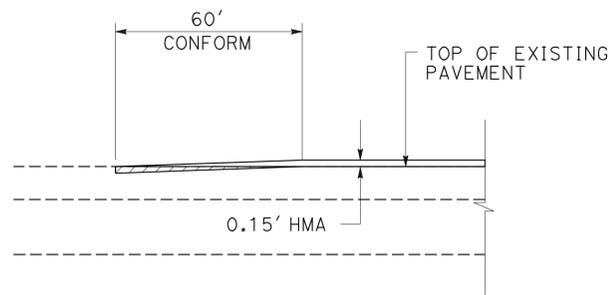
COLD PLANE

**ABBREVIATIONS**

HMA HOT MIX ASPHALT

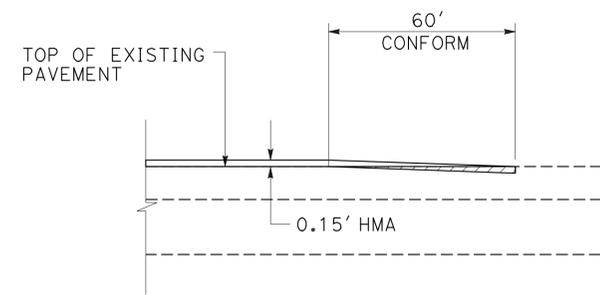


**AC TAPER AT MIDDLE FORK FEATHER RIVER BRIDGE**



**AC TAPER AT ROUTE 89/  
GRAEAGLE-JOHNVILLE ROAD  
INTERSECTION**

Sta 351+00 TO 351+60



**AC TAPER AT ROUTE 89/  
BONTA STREET INTERSECTION**

Sta 390+40 TO 391+00

**CONSTRUCTION DETAILS**

NO SCALE

**C-1**

STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR
	NORTH REGION EAST DESIGN BRANCH M7	RODOLFO AVILA JR.	H. BARAJAS
		CHECKED BY	DATE
		DESIGNED BY	REVISOR
			R. AVILA



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	PIU	89	7.8/8.6	7	33

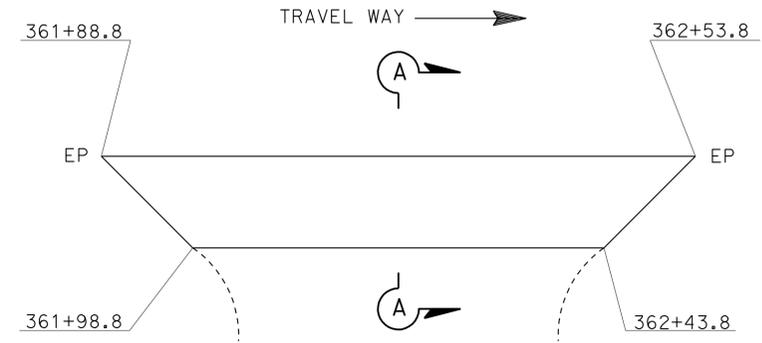
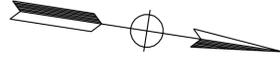
<i>Hugo Barajas</i>	11-01-10
REGISTERED CIVIL ENGINEER	DATE
2-22-11	
PLANS APPROVAL DATE	

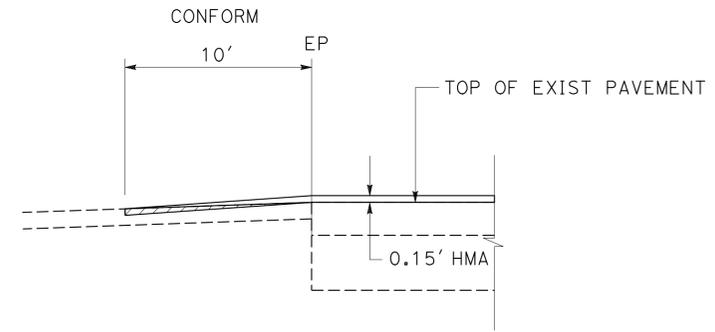
REGISTERED PROFESSIONAL ENGINEER
HUGO BARAJAS
No. 64575
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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:**  
 COLD PLANE

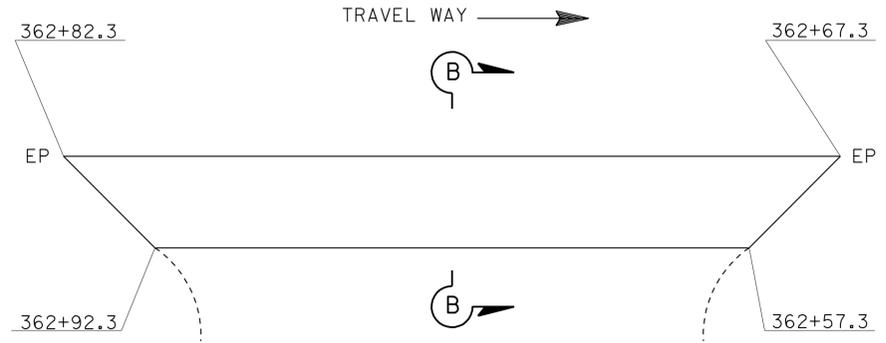


PLAN

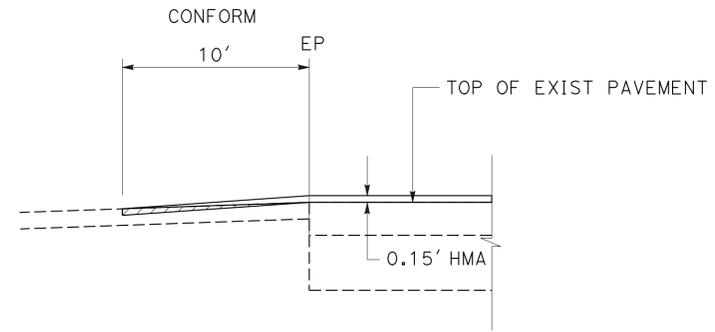


SECTION A-A

**AC TAPER AT DRIVEWAY #1**

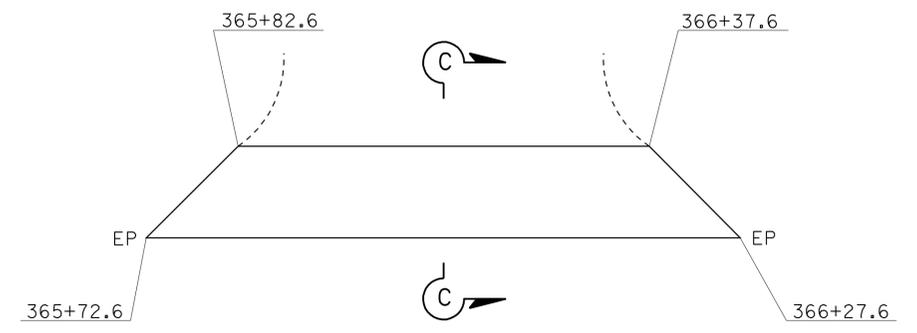


PLAN

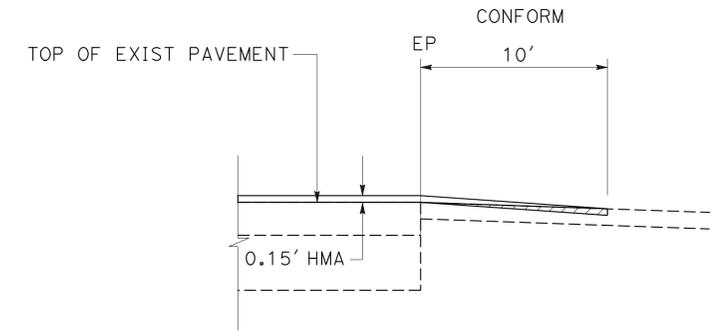


SECTION B-B

**AC TAPER AT DRIVEWAY #2**



PLAN



SECTION C-C

**AC TAPER AT DRIVEWAY #3**

**CONSTRUCTION DETAILS**

NO SCALE

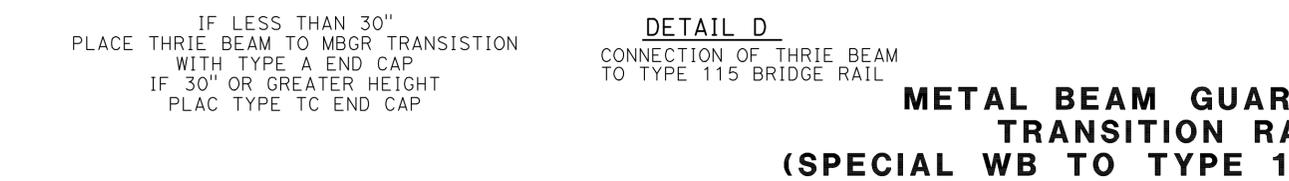
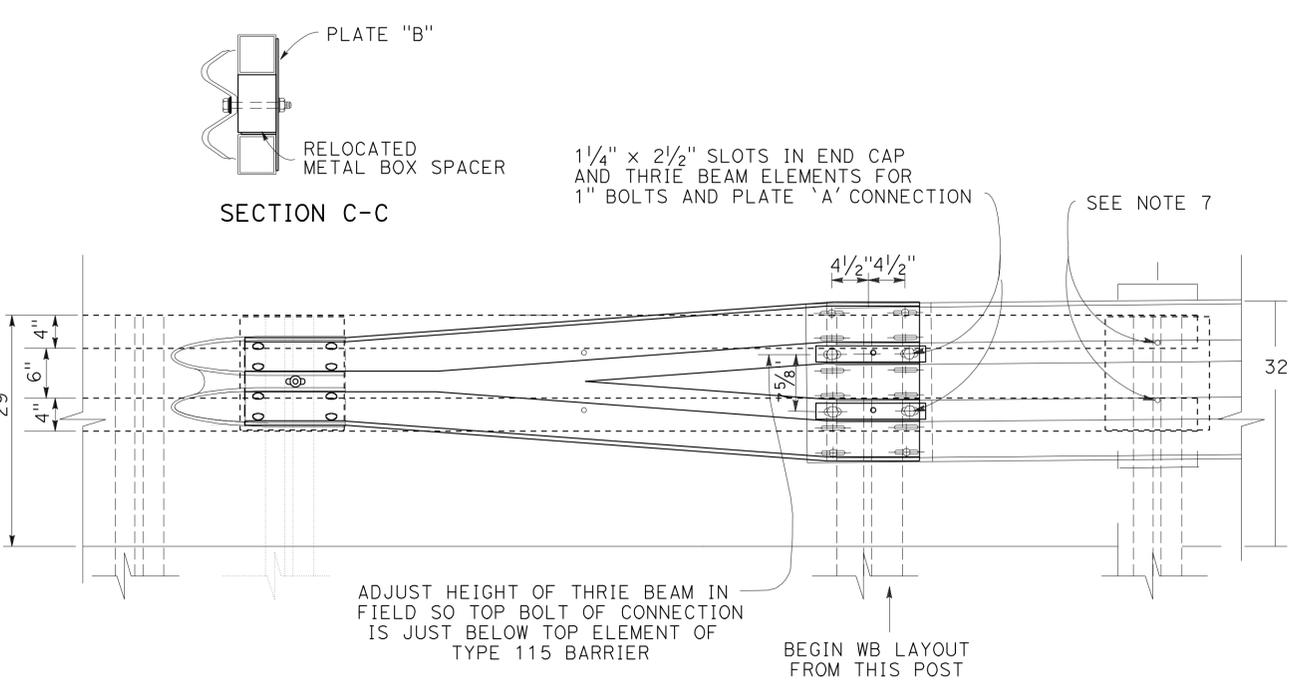
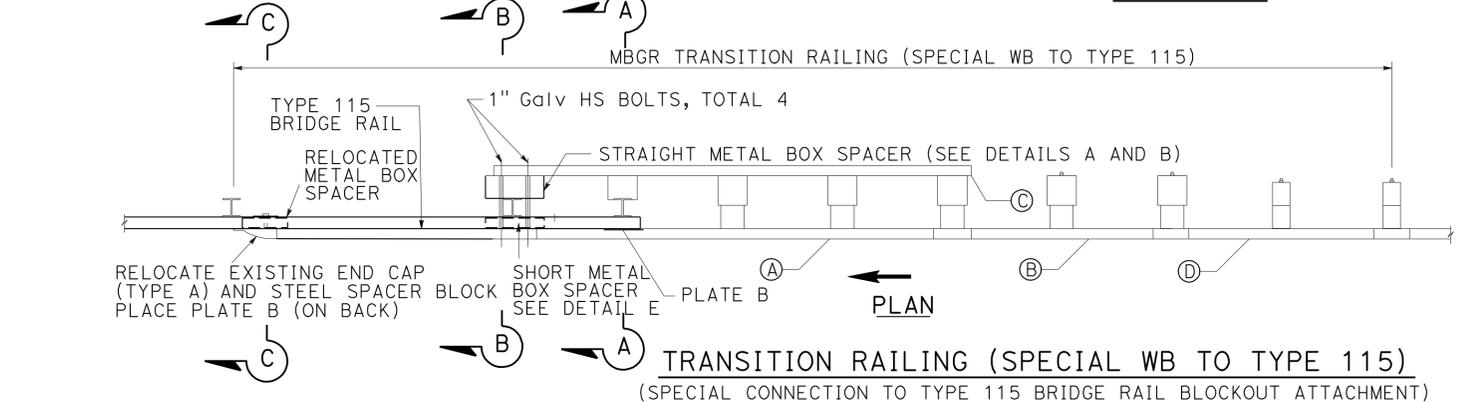
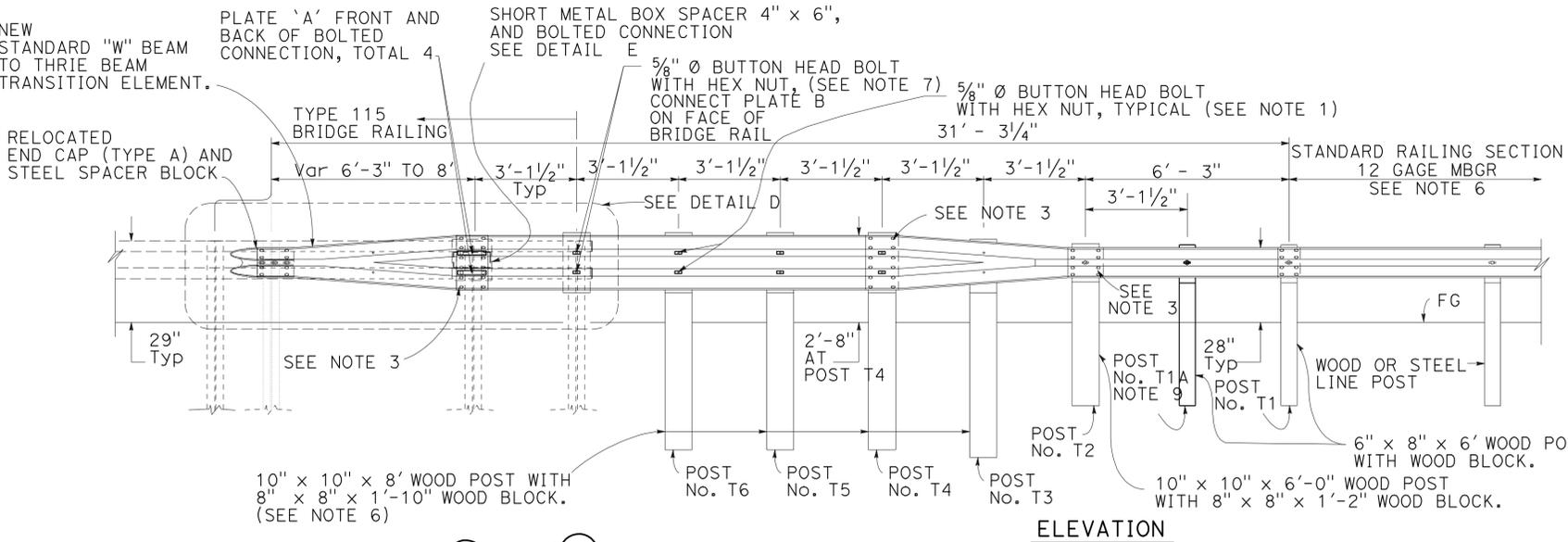
**C-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 NORTH REGION OFFICE OF DESIGN, EAST DESIGN BRANCH M7  
 FUNCTIONAL SUPERVISOR: RODOLFO AVILA JR.  
 H. BARAJAS  
 R. AVILA  
 REVISIONS: [Blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu	89	7.8/8.6	8	33

HUGO BARAJAS REGISTERED CIVIL ENGINEER No. 64575 Exp. 6-30-11 CIVIL	11-01-10 DATE 2-22-11 PLANS APPROVAL DATE
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	

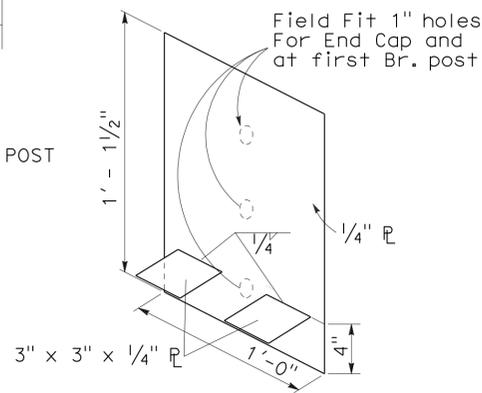


**LEGEND:**

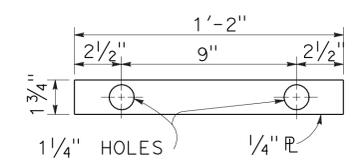
- (A) NESTED THRIE BEAM ELEMENTS (ONE 12 GAGE ELEMENT NESTED OVER ONE 10 GAGE ELEMENT).
- (B) ONE 10 GAGE "W" BEAM TO THRIE BEAM ELEMENT.
- (C) ONE 12 GAGE THRIE BEAM ELEMENT.
- (D) ONE 10 GAGE "W" BEAM RAIL ELEMENT (7'-3" LENGTH)

**NOTES:**

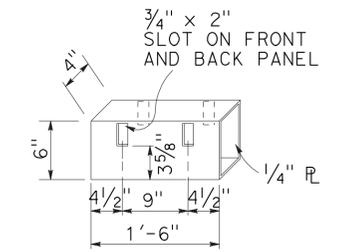
1. USE 5/8" Ø BUTTON HEAD BOLTS AND HEX NUTS FOR CONNECTIONS TO POSTS. PLACE SQUARE WASHER ON RAIL FACE FOR BOLTED CONNECTIONS TO 10'x10" WOOD POST.
2. THE NESTED RAIL ELEMENTS, END CAP, AND 'W' BEAM TO THRIE BEAM ELEMENT MAY BE SPLICED TOGETHER PRIOR TO BOLTING THE ELEMENTS TO THE WOOD POST AND BRIDGE RAILING.
3. EXTERIOR SPLICE BOLT HOLES FOR RAIL SPLICES AT "W" BEAM TO THRIE BEAM CONNECTIONS SHALL BE THE STANDARD 29/32" x 1/8" SLOT SIZE. INTERIOR SPLICE BOLT HOLES AT THESE LOCATIONS MAY BE INCREASED UP TO 1 1/4" Ø. ONLY THE TOP 2 AND THE BOTTOM 2 SPLICE BOLTS WITH WASHERS AND NUTS ARE REQUIRED FOR RAIL SPLICES AT THESE CONNECTIONS
4. DIRECTION OF ADJACENT TRAFFIC INDICATED BY →
5. THE TOP ELEVATION OF POST NOS. T2 THROUGH T7 SHALL NOT PROJECT MORE THAN 1" ABOVE THE TOP ELEVATION OF THE RAIL ELEMENT.
6. TYPICALLY, THE RAILING CONNECTED TO TRANSITION RAILING (SPECIAL WB) WILL BE EITHER STANDARD RAILING SECTION OF METAL BEAM GUARD RAILING OR AN APPROVED CALTRANS END TREATMENT ATTACHED TO POST No. T1.
7. FIELD DRILL 1" HOLE AS NEEDED FOR 5/8" BOLT.
8. FOR INFORMATION NOT SHOWN, REFER TO STANDARD PLAN RSPA77J4.
9. PLACE POST T1A IF APPROACH SPEEDS ARE OVER 45 MPH.



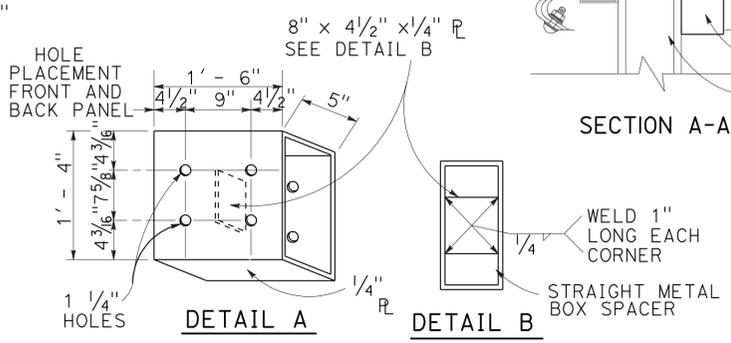
**PLATE 'B'**



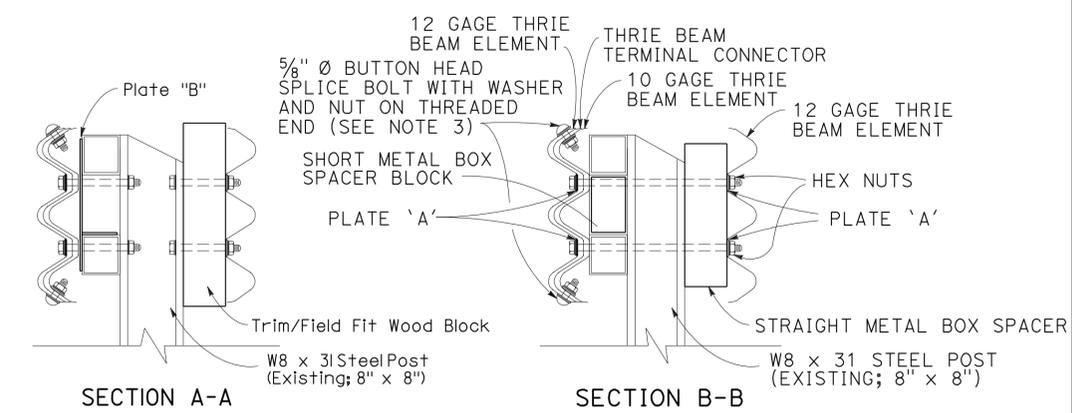
**DETAIL C  
PLATE 'A'**



**DETAIL E  
SHORT METAL BOX SPACER**



**DETAIL A  
STRAIGHT METAL BOX SPACER**



**SECTION A-A**

**SECTION B-B**

**METAL BEAM GUARD RAILING  
TRANSITION RAILING  
(SPECIAL WB TO TYPE 115 BRIDGE RAIL)**

**CONSTRUCTION DETAILS  
NO SCALE**

**C-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 NORTH REGION EAST DESIGN BRANCH M7  
 OFFICE OF DESIGN EAST  
 DESIGN BRANCH M7  
 FUNCTIONAL SUPERVISOR  
 RODOLFO AVILA JR.  
 CHECKED BY  
 H. BARAJAS  
 R. AVILA  
 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.

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 TIME PLOTTED => 1:31:24

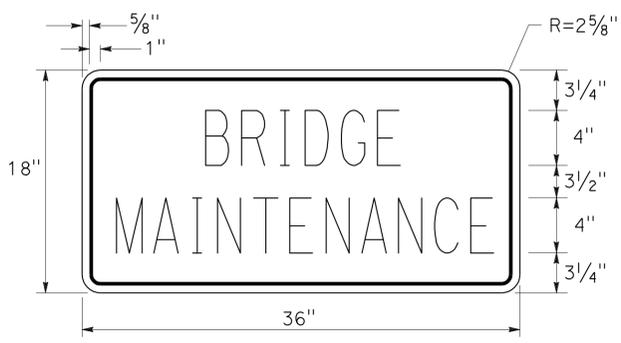
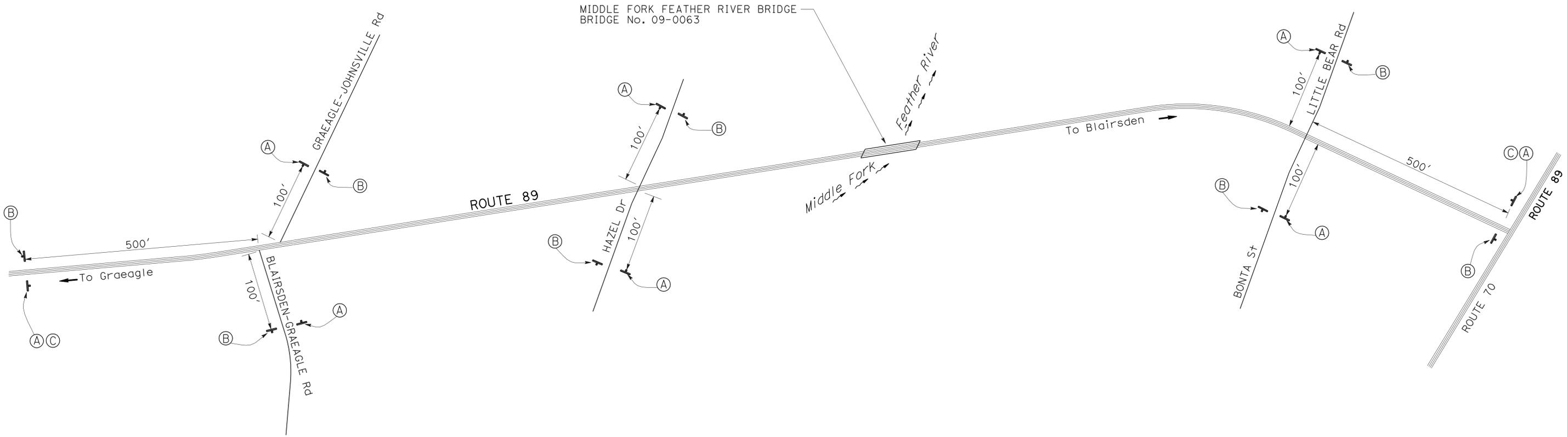
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu	89	7.8/8.6	9	33

HUGO BARAJAS 11-01-10  
 REGISTERED CIVIL ENGINEER DATE  
 2-22-11  
 PLANS APPROVAL DATE

HUGO BARAJAS  
 No. 64575  
 Exp. 6-30-11  
 CIVIL  
 STATE OF CALIFORNIA

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**NOTE:**  
SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.



**C23B(CA) SIGN PANEL DETAIL**

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN No.	SIGN CODE	PANEL SIZE (in)	SIGN MESSAGE	No. OF POST AND SIZE (in)	No. OF SIGNS
(A)	W20-1	48 x 48	ROAD WORK AHEAD	1- 4 x 6	8
(B)	G20-2	36 x 18	END ROAD WORK	1- 4 x 4	8
(C)	C23B(CA)	36 x 18	BRIDGE MAINTENANCE		2 *
<b>TOTAL</b>					<b>18</b>

\* C23B SIGN TO BE PLACED ON SAME POST AS W20-1 SIGN.

**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 NORTH REGION OFFICE OF DESIGN, EAST DESIGN BRANCH M7  
 H. BARAJAS  
 R. AVILA  
 RODOLFO AVILA JR.  
 CALTRANS

USERNAME => rrmartin  
DGN FILE => 020002010311a001.dgn



UNIT 0328

PROJECT NUMBER & PHASE

02000201031

LAST REVISION DATE PLOTTED => 25-FEB-2011  
 11-01-10 TIME PLOTTED => 13:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu	89	7.8/8.6	10	33

HUGO BARAJAS 11-01-10  
 REGISTERED CIVIL ENGINEER DATE  
 2-22-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 HUGO BARAJAS  
 No. 64575  
 Exp. 6-30-11  
 CIVIL  
 STATE OF CALIFORNIA

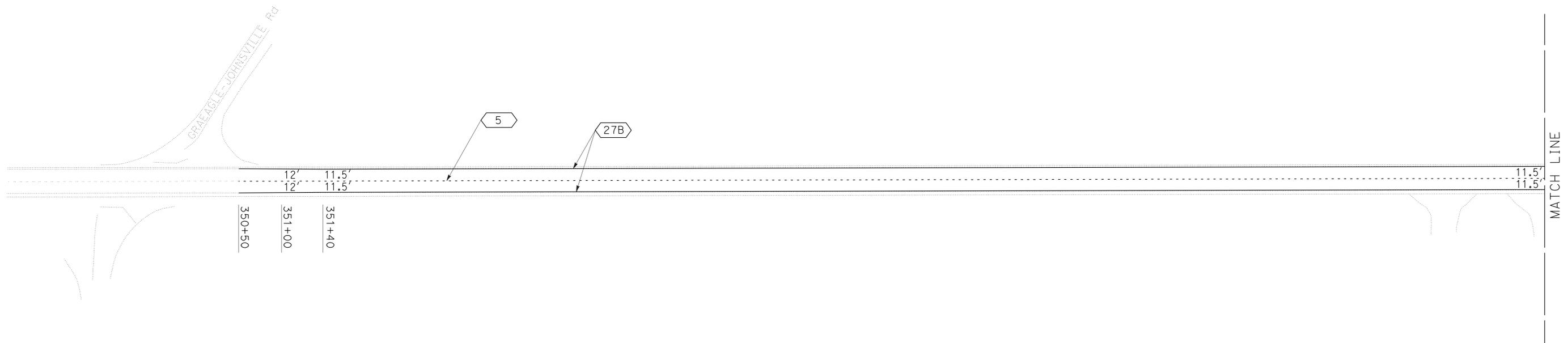
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**LEGEND:**

-  PAVEMENT DELINEATION DETAIL No.
-  CHANGE IN STRIPE PATTERN



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b>	RODOLFO AVILA JR.	CHECKED BY	H. BARAJAS
NORTH REGION OFFICE OF DESIGN, EAST DESIGN BRANCH M7			R. AVILA



**MIDDLE FORK FEATHER RIVER  
PAVEMENT DELINEATION PLAN**

SCALE: 1" = 50'

**PD-1**

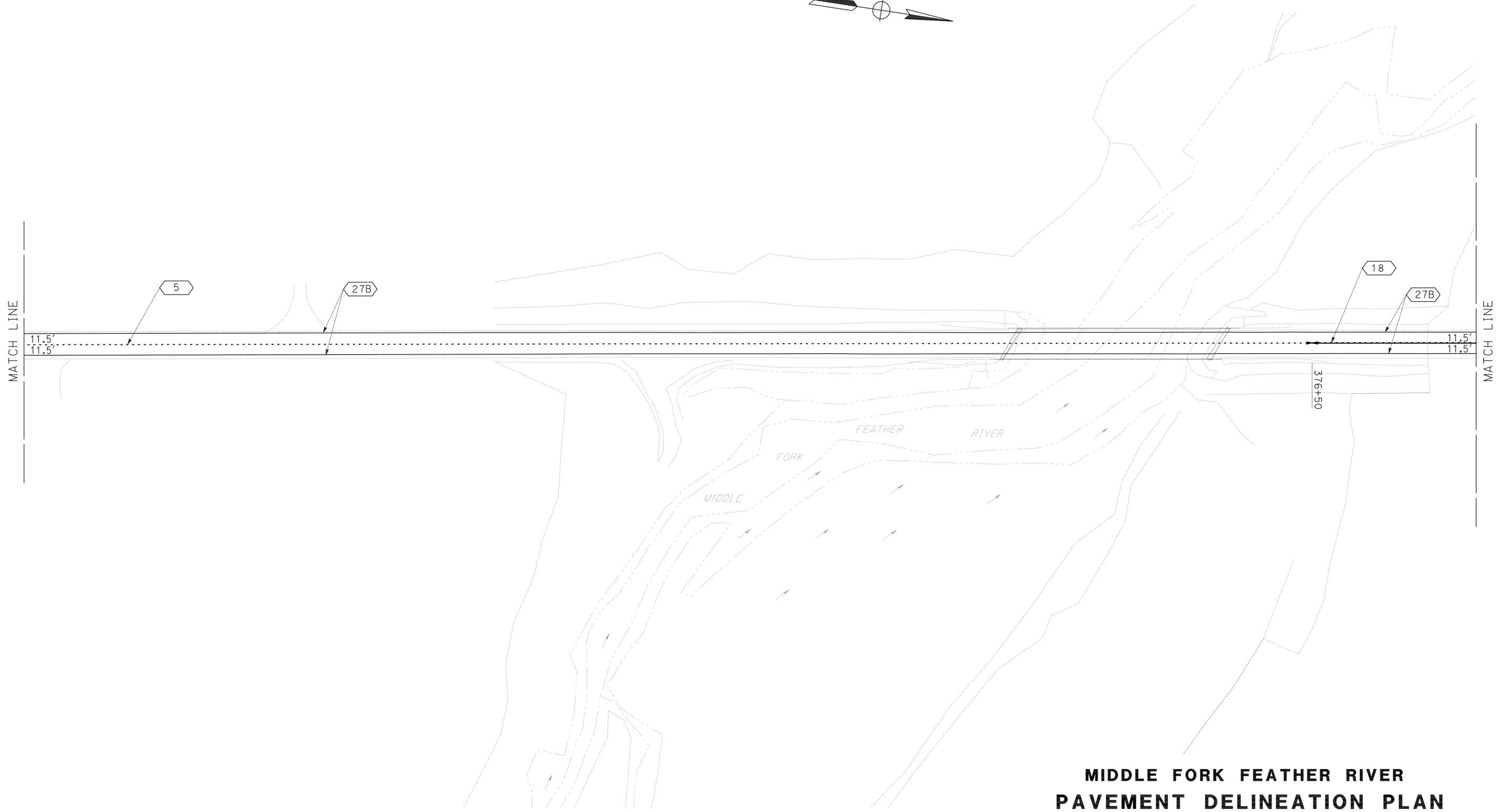
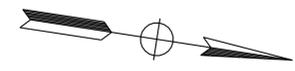
THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu	89	7.8/8.6	11	33

*Hugo Barajas* 11-01-10  
 REGISTERED CIVIL ENGINEER DATE  
 2-22-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 HUGO BARAJAS  
 No. 64575  
 Exp. 6-30-11  
 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
<b>Caltrans</b>	RODOLFO AVILA JR.	H. BARAJAS	H. BARAJAS
NORTH REGION OFFICE OF DESIGN EAST DESIGN BRANCH M7	CHECKED BY	R. AVILA	R. AVILA

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

**MIDDLE FORK FEATHER RIVER  
PAVEMENT DELINEATION PLAN**

SCALE: 1" = 50'

**PD-2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu	89	7.8/8.6	12	33

<i>Hugo Barajas</i>	11-01-10
REGISTERED CIVIL ENGINEER	DATE
2-22-11	
PLANS APPROVAL DATE	

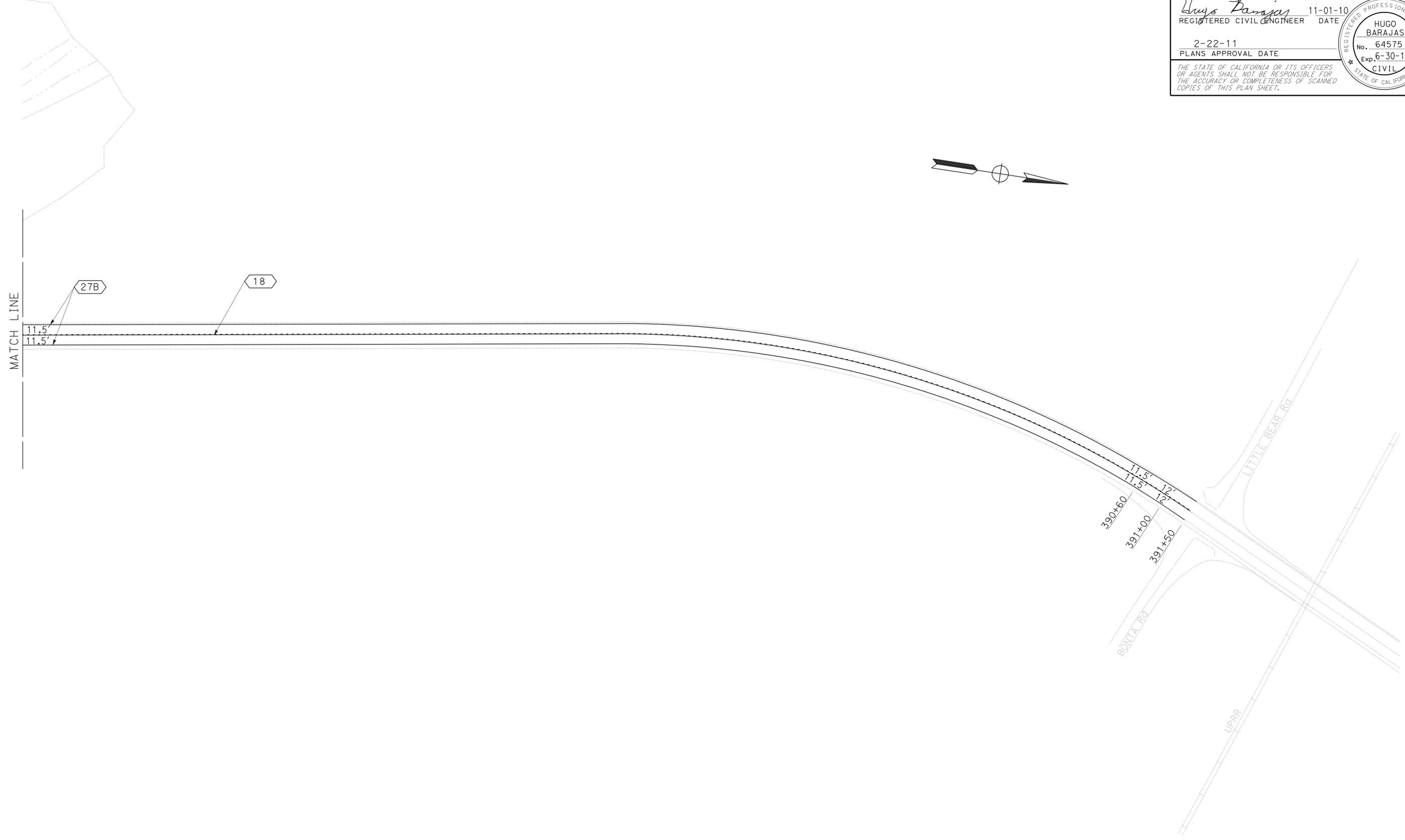
  

HUGO BARAJAS	
No.	64575
Exp.	6-30-11
CIVIL	

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b>	RODOLFO AVILA JR.	DESIGNED BY	H. BARAJAS
NORTH REGION OFFICE OF DESIGN, EAST DESIGN BRANCH M7		CHECKED BY	R. AVILA
			DATE REVISOR



THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

## MIDDLE FORK FEATHER RIVER PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

**PD-3**

### ROADWAY QUANTITIES

STATION	COLD PLANE ASPHALT CONCRETE PAVEMENT		HOT MIX ASPHALT (TYPE A)		CLASS 2 AGGREGATE BASE		TACK COAT		ROADWAY EXCAVATION		IMPORTED MATERIAL (SHOULDER BACKING)	
	SQYD	TON	CY	TON	CY	TON	CY	TON				
"A1" 351+00 TO 351+60	195											
"A1" 371+00.7 TO 373+00.7	645											
"A1" 375+91.8 TO 377+91.8	645											
"A1" 390+40 TO 391+00	195											
"A1" 351+00 TO 373+00.7			669		5.9							
"A1" 375+91.8 TO 391+00			465		4.1							
"A1" 373+00.7 TO 373+36.7			40	45		80						
"A1" 375+55.8 TO 375+91.8			40	45		80						
"A1" 351+00 TO 373+36.7											24	
"A1" 375+55.8 TO 391+00											17	
DRIVEWAY #1	84	8			0.4							
DRIVEWAY #2	63	6			0.3							
DRIVEWAY #3	63	6			0.3							
<b>TOTAL</b>	<b>1,890</b>	<b>1,234</b>	<b>90</b>	<b>11</b>	<b>160</b>	<b>41</b>						

### TEMPORARY WPC QUANTITIES

TEMPORARY FIBER ROLL	TEMPORARY SILT FENCE	TEMPORARY CONCRETE WASHOUT	TEMPORARY CONSTRUCTION ENTRANCE	TEMPORARY COVER	TEMPORARY HYDRAULIC MULCH	TEMPORARY SOIL BINDER	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)
LF	LF	EA	EA	SQYD	SQYD	SQYD	EA
1,200	400	1	2	20	400	3,350	4

### METAL BEAM GUARD RAILING

STATION	LAYOUT TYPE	METAL BEAM GUARD RAILING (WOOD POST)					REMOVE TERMINAL SECTION	VEGETATION CONTROL (MINOR CONCRETE)
		TRANSITION RAILING (TYPE SPECIAL WB)		ALTERNATIVE FLARED TERMINAL SYSTEM		REMOVE METAL BEAM GUARD RAILING		
		LF	EA	EA	LF	EA		
"A1" 371+37 TO 373+21 (R+)	12B	125	1	1	87	1	113	
"A1" 375+46 TO 377+30 (R+)	12BB	125	1	1	110	1	113	
"A1" 371+62 TO 373+46 (L+)	12BB	125	1	1	72	1	113	
"A1" 375+67 TO 377+51 (L+)	12B	125	1	1	54	1	113	
<b>TOTAL</b>		<b>500</b>	<b>4</b>	<b>4</b>	<b>323</b>		<b>452</b>	

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

### PAVEMENT DELINEATION

STATION	DETAIL NUMBER	TWO-COMPONENT PAINT TRAFFIC STRIPE		REMOVE PAVEMENT MARKER
		4" WHITE	4" YELLOW	
		LF	LF	
"A1" 350+50 TO 391+50	27B	8200		
"A1" 350+50 TO 376+50	5		2600	55
"A1" 376+50 TO 391+50	18		1500	100
<b>TOTAL</b>		<b>8200</b>	<b>4100</b>	<b>155</b>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu	89	7.8/8.6	13	33

Hugo Barajas 11-01-10  
 REGISTERED CIVIL ENGINEER DATE

2-22-11  
 PLANS APPROVAL DATE

HUGO BARAJAS  
 No. 64575  
 Exp. 6-30-11  
 CIVIL  
 STATE OF CALIFORNIA

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### TEMPORARY FENCE (TYPE ESA)

SHEET No.	LF
L-2	845

### EROSION CONTROL

(HYDROSEED)	ACRE
	1

## SUMMARY OF QUANTITIES

Q-1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu	89	7.8/8.6	14	33

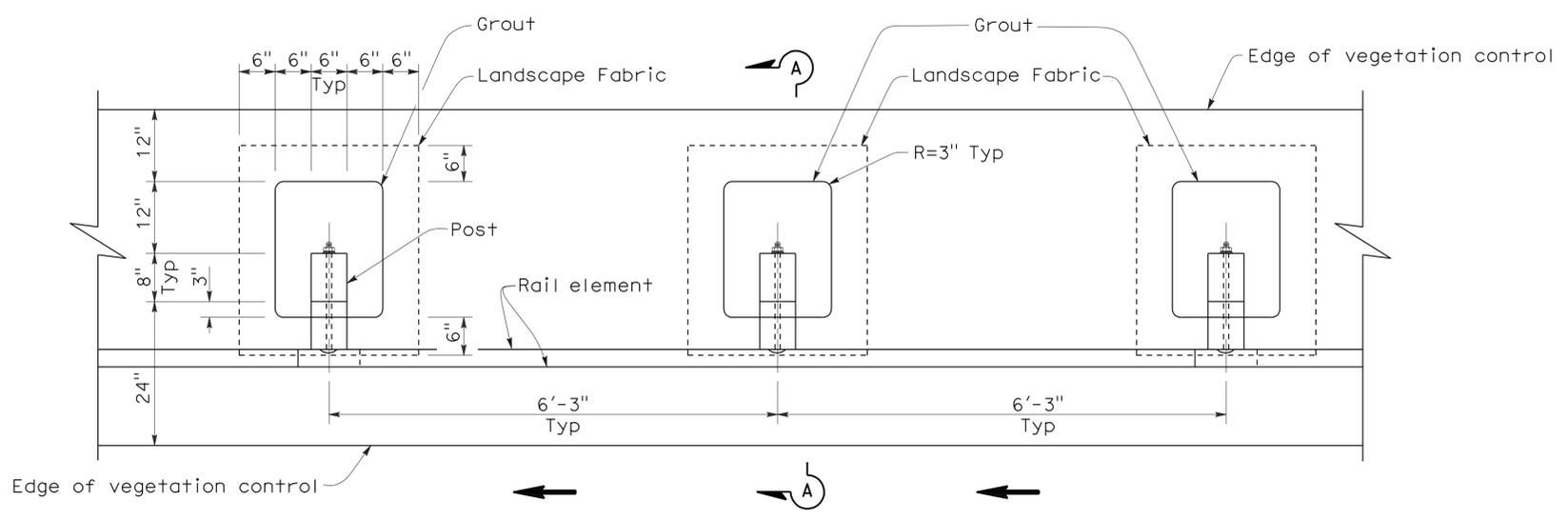
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

October 20, 2006  
PLANS APPROVAL DATE

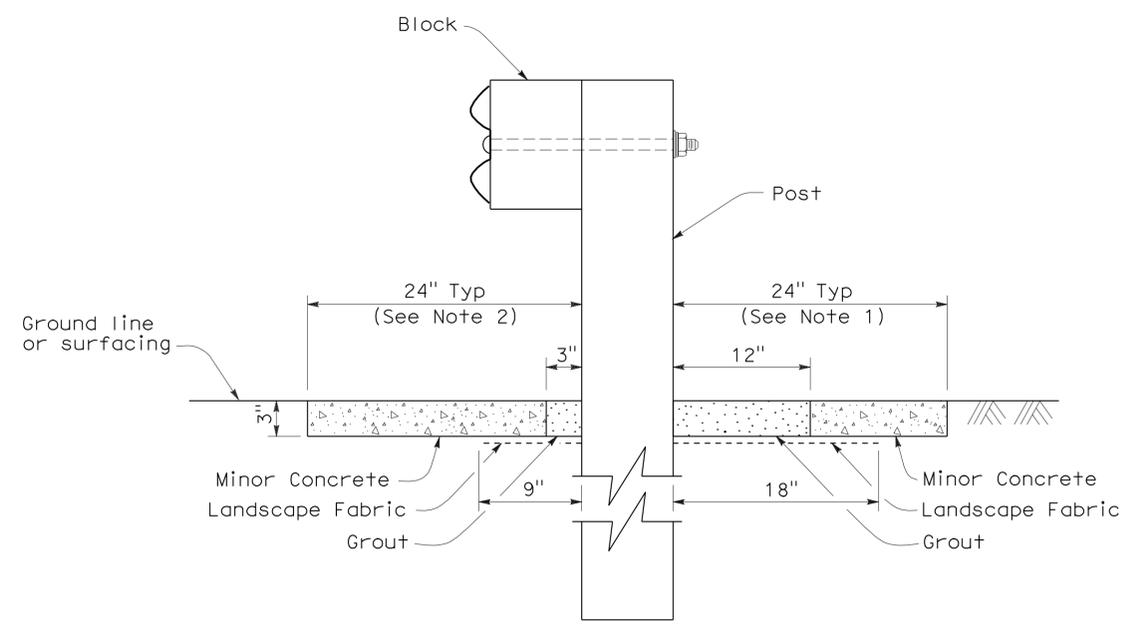
*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-07  
CIVIL  
STATE OF CALIFORNIA

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To accompany plans dated 2-22-11



PLAN



SECTION A-A

NOTES:

1. Where the distance between back of post and hinge point is less than 24", vegetation control to be constructed flush with the back edge of the post.
2. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
3. Direction of adjacent traffic indicated by ← .

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING  
TYPICAL VEGETATION CONTROL  
STANDARD RAILING SECTION**

NO SCALE

NSP A77C5 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD  
PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP A77C5**

2006 NEW STANDARD PLAN NSP A77C5

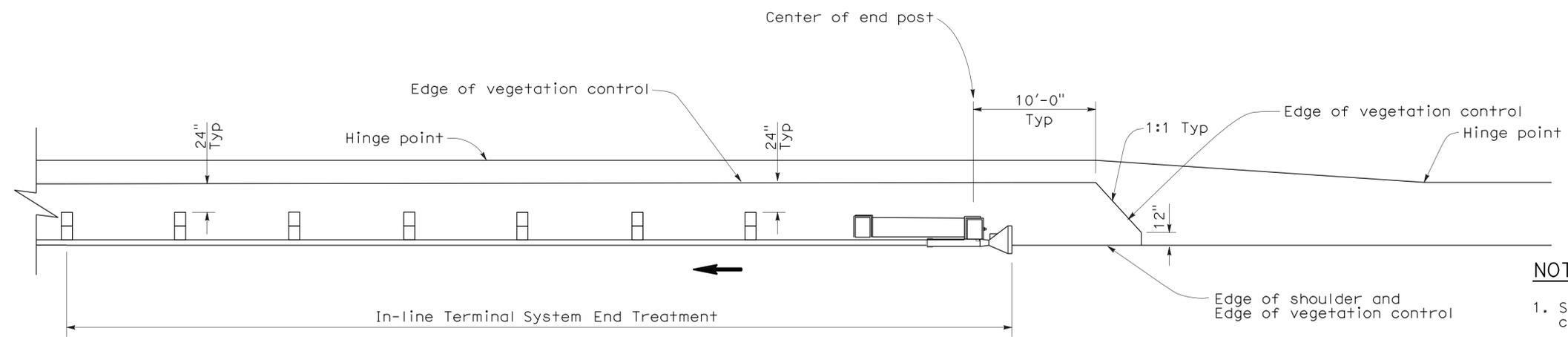
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Piu	89	7.8/8.6	15	33

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

October 20, 2006  
PLANS APPROVAL DATE

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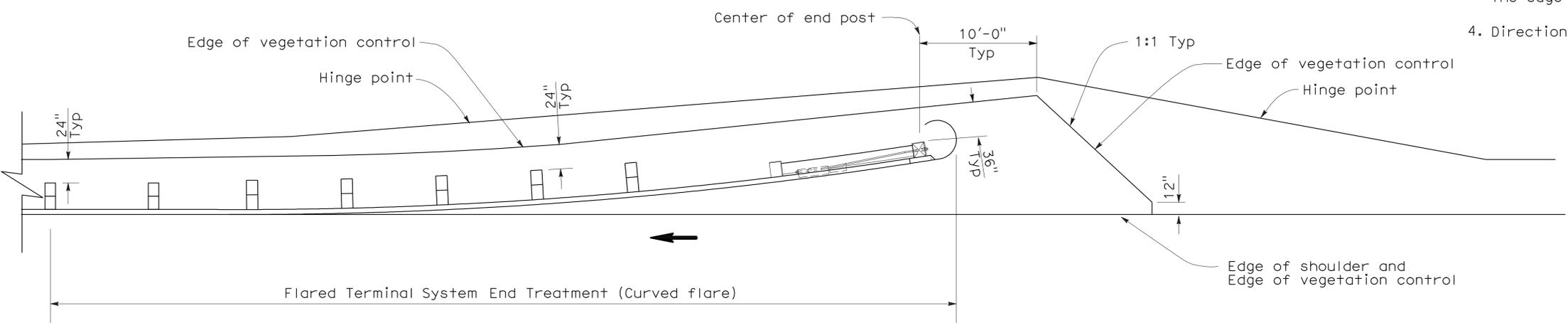
To accompany plans dated 2-22-11



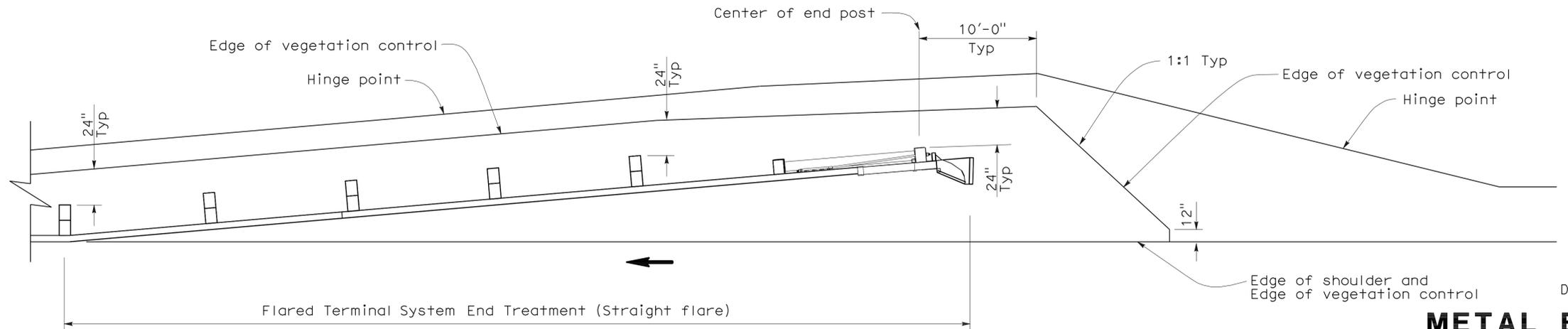
PLAN

**NOTES:**

1. See New Standard Plan NSP A77C5 for additional vegetation control details.
2. Where the distance between back of post and hinge point is less than 24", vegetation control to be constructed flush with the back edge of the post.
3. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
4. Direction of adjacent traffic indicated by ←.



PLAN



PLAN

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING  
TYPICAL VEGETATION CONTROL  
FOR TERMINAL SYSTEM END TREATMENTS**

NO SCALE  
NSP A77C6 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD  
PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP A77C6

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu	89	7.8/8.6	16	33

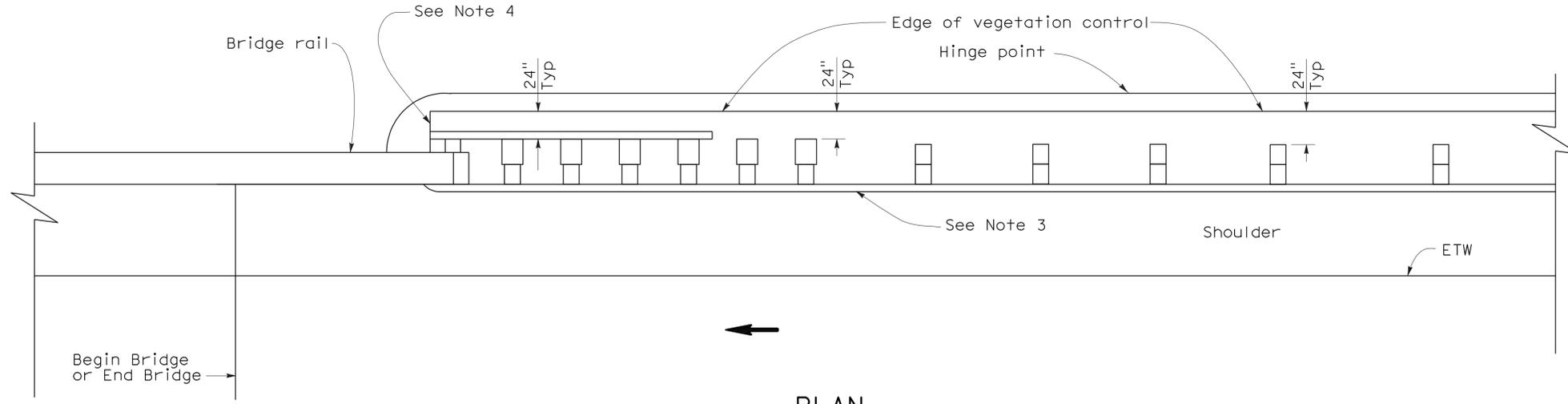
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

October 20, 2006  
PLANS APPROVAL DATE

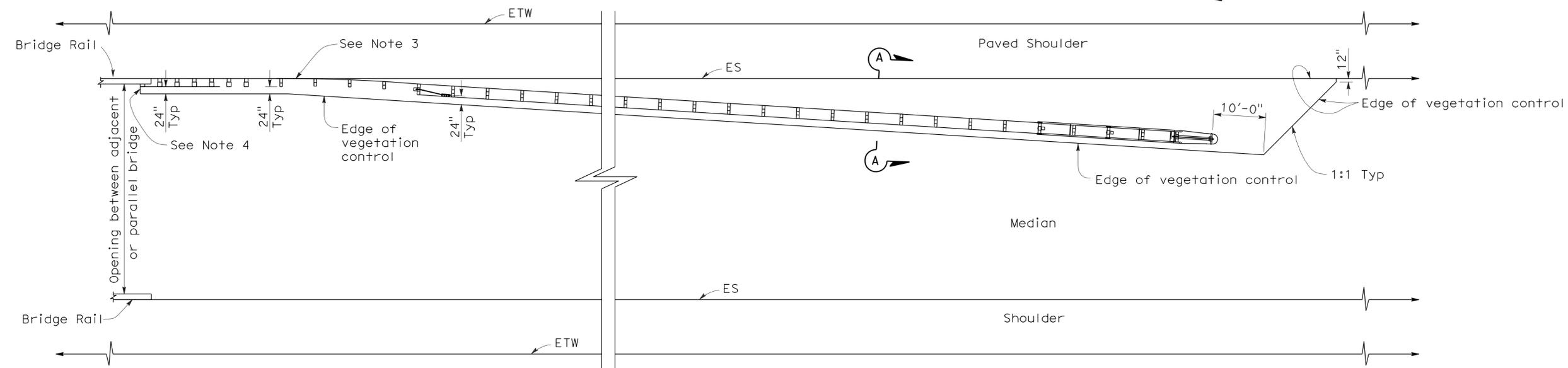
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To accompany plans dated 2-22-11

2006 NEW STANDARD PLAN NSP A77C7



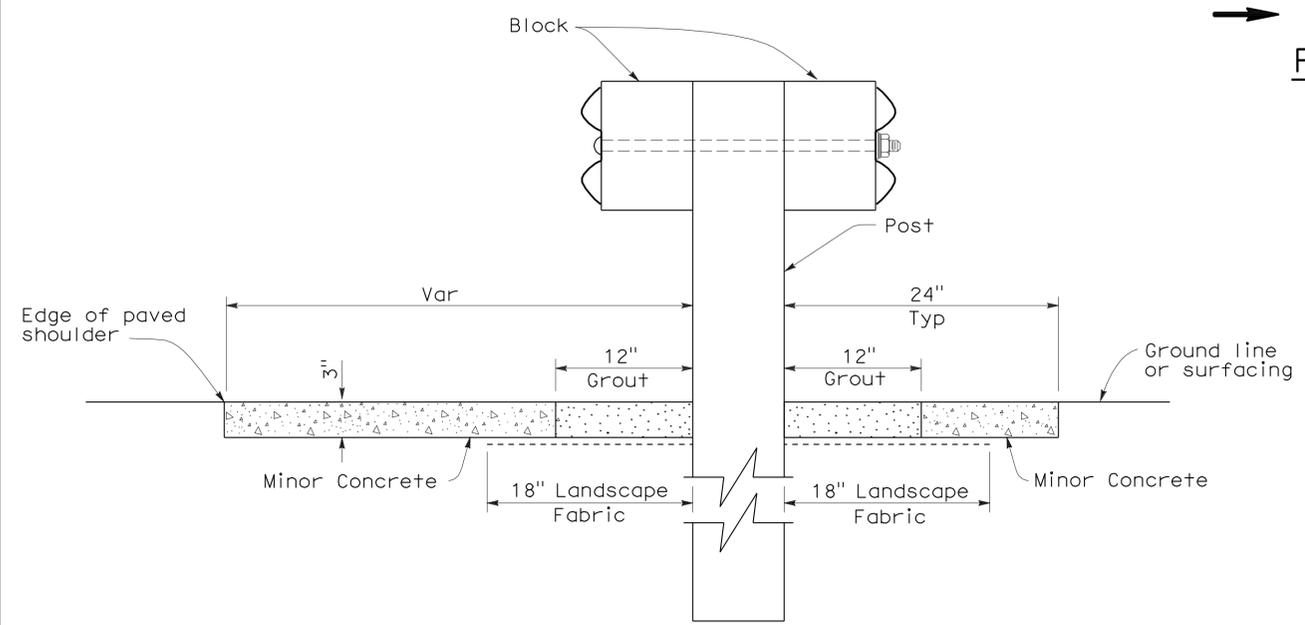
PLAN



PLAN

NOTES:

1. See New Standard Plan NSP A77C5 for additional vegetation control details.
2. Where the distance between back of post and hinge point is less than 24", vegetation control to be constructed flush with the back edge of the post.
3. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
4. End vegetation control at end of backside rail element.
5. Direction of adjacent traffic indicated by ←.



SECTION A-A

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING  
TYPICAL VEGETATION CONTROL  
AT STRUCTURE APPROACH  
AND DEPARTURE**

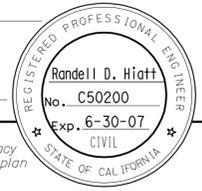
NO SCALE  
NSP A77C7 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD  
PLANS BOOK DATED MAY 2006.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Piu	89	7.8/8.6	17	33

Randell D. Hiatt  
REGISTERED CIVIL ENGINEER

October 20, 2006  
PLANS APPROVAL DATE

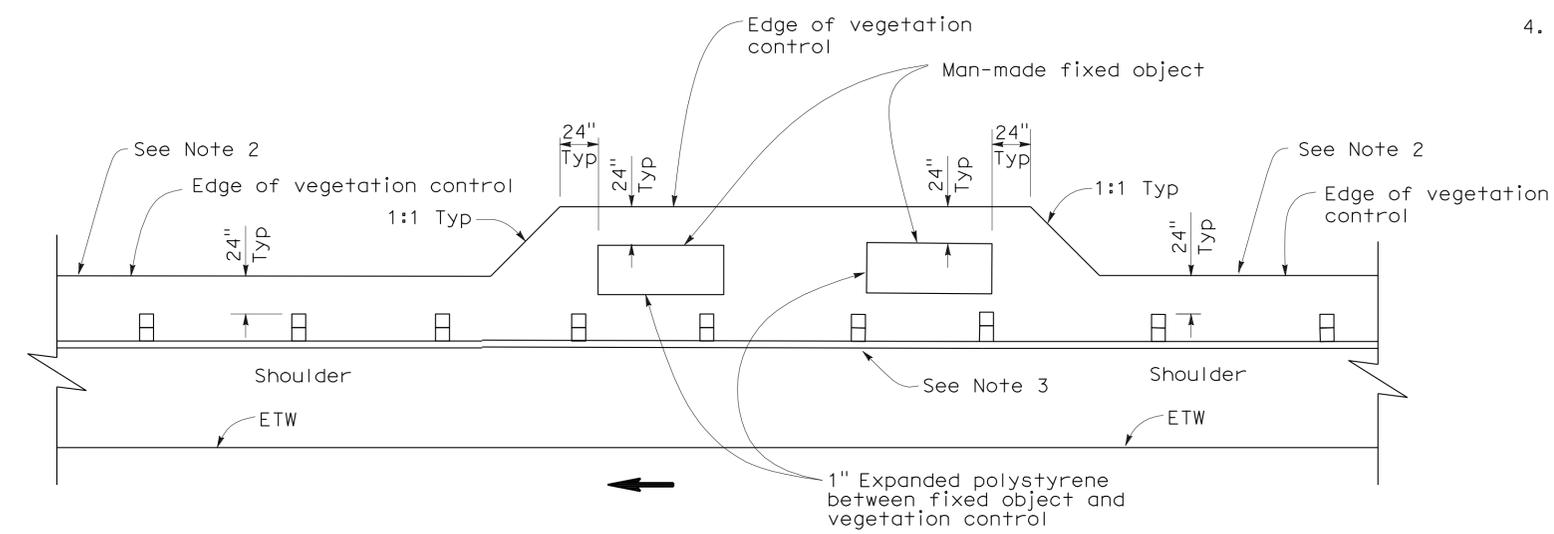
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To accompany plans dated 2-22-11

**NOTES:**

1. See New Standard Plan NSP A77C5 for additional vegetation control details.
2. Where the distance between back of post and hinge point is less than 24", vegetation control to be constructed flush with the back edge of the post.
3. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
4. Direction of adjacent traffic indicated by ←.



**PLAN**  
FIXED OBJECT(S) ON SHOULDER

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING  
TYPICAL VEGETATION CONTROL  
AT FIXED OBJECT**

NO SCALE  
NSP A77C8 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD  
PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP A77C8**

2006 NEW STANDARD PLAN NSP A77C8

**NOTES:**

1. See New Standard Plan NSP A77C5 for additional vegetation control details.
2. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
3. Direction of adjacent traffic indicated by ←.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu	89	7.8/8.6	18	33

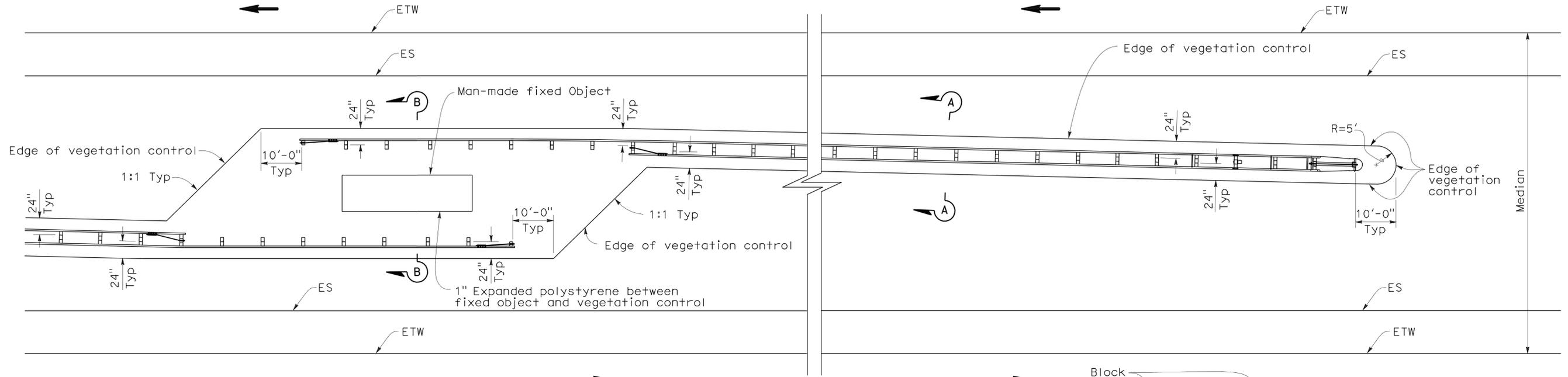
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

October 20, 2006  
PLANS APPROVAL DATE

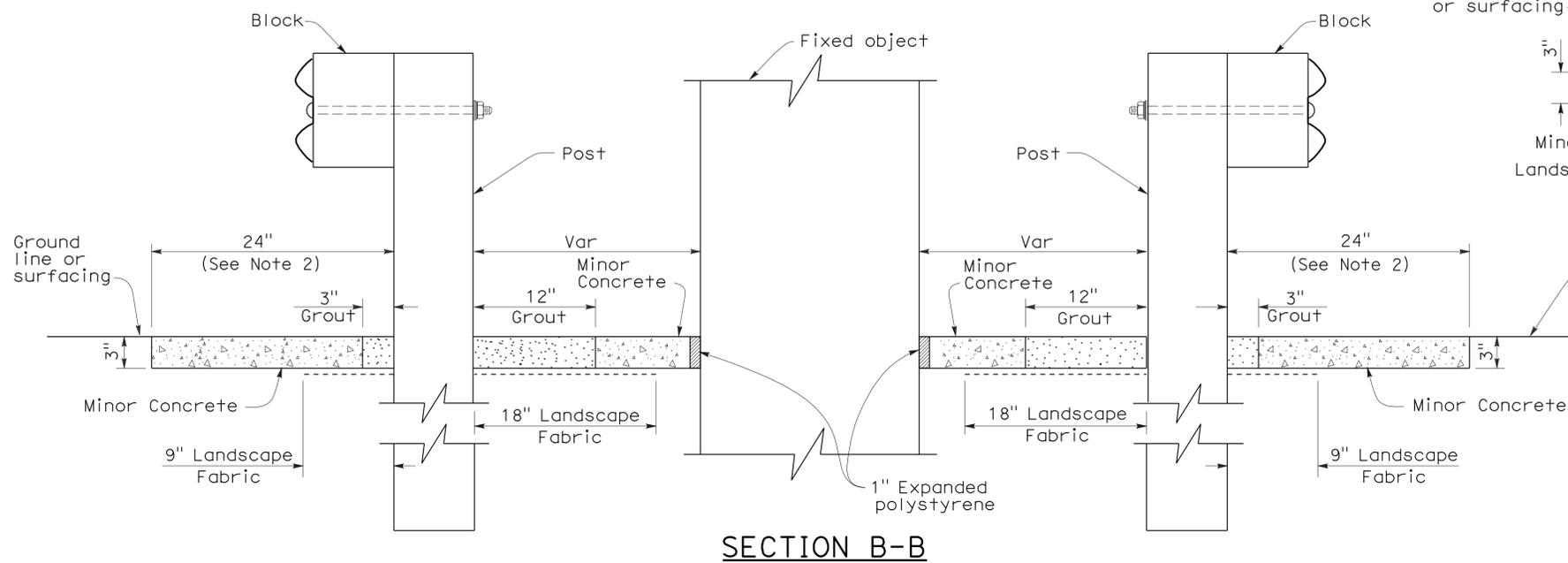
*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-07  
CIVIL  
STATE OF CALIFORNIA

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.

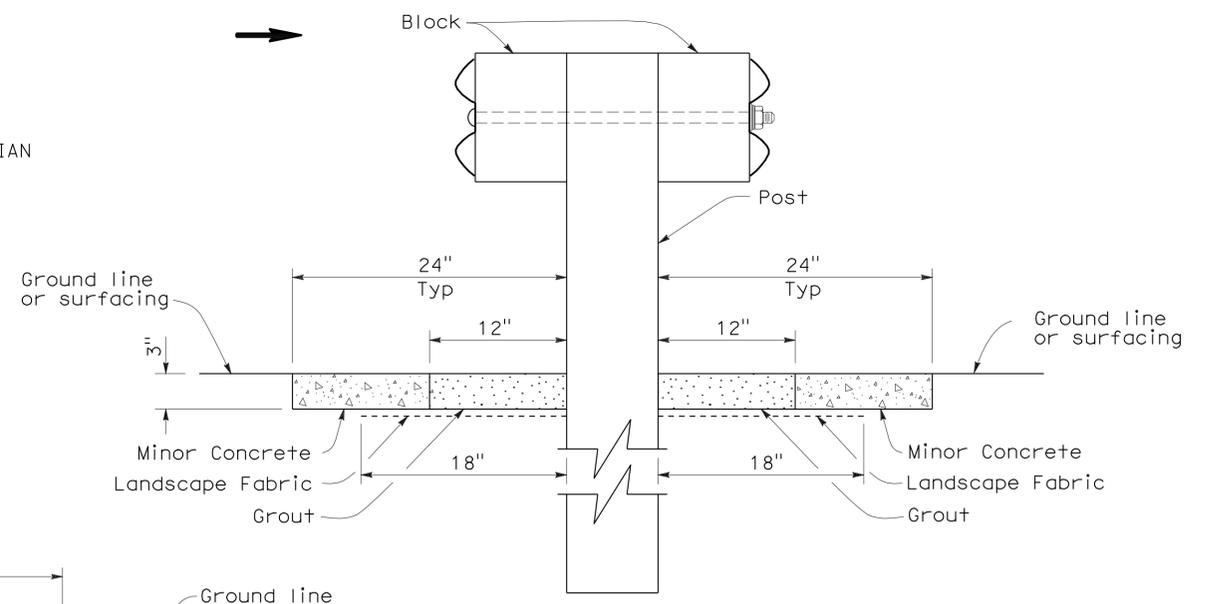
To accompany plans dated 2-22-11



**PLAN**  
FIXED OBJECT(S) IN MEDIAN



**SECTION B-B**



**SECTION A-A**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**METAL BEAM GUARD RAILING  
TYPICAL VEGETATION CONTROL  
AT FIXED OBJECT**

NO SCALE  
NSP A77C9 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD  
PLANS BOOK DATED MAY 2006.

**NOTES:**

1. See New Standard Plan NSP A77C5 for additional vegetation control details.
2. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
3. Direction of adjacent traffic indicated by ←.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu	89	7.8/8.6	19	33

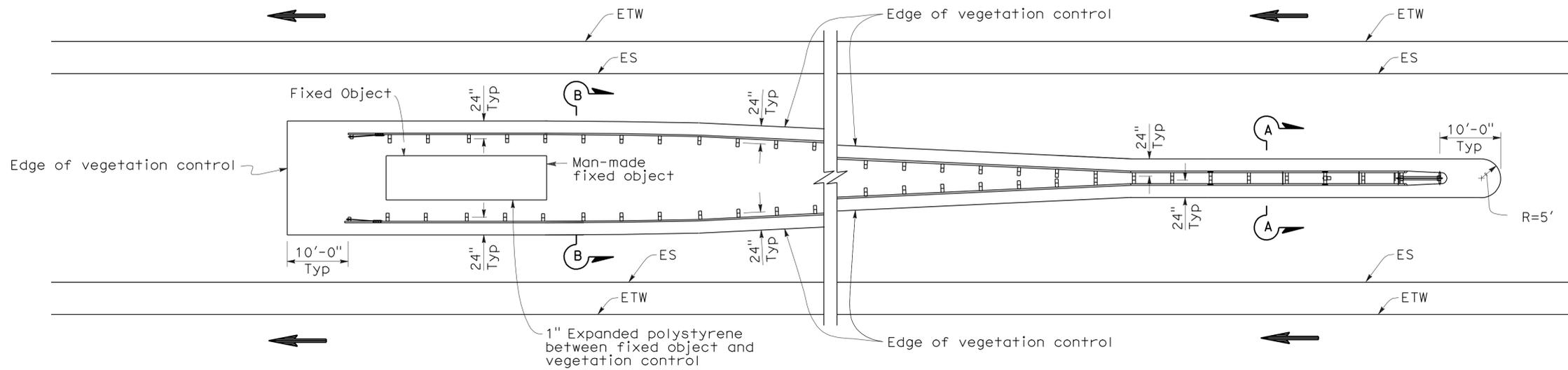
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

October 20, 2006  
PLANS APPROVAL DATE

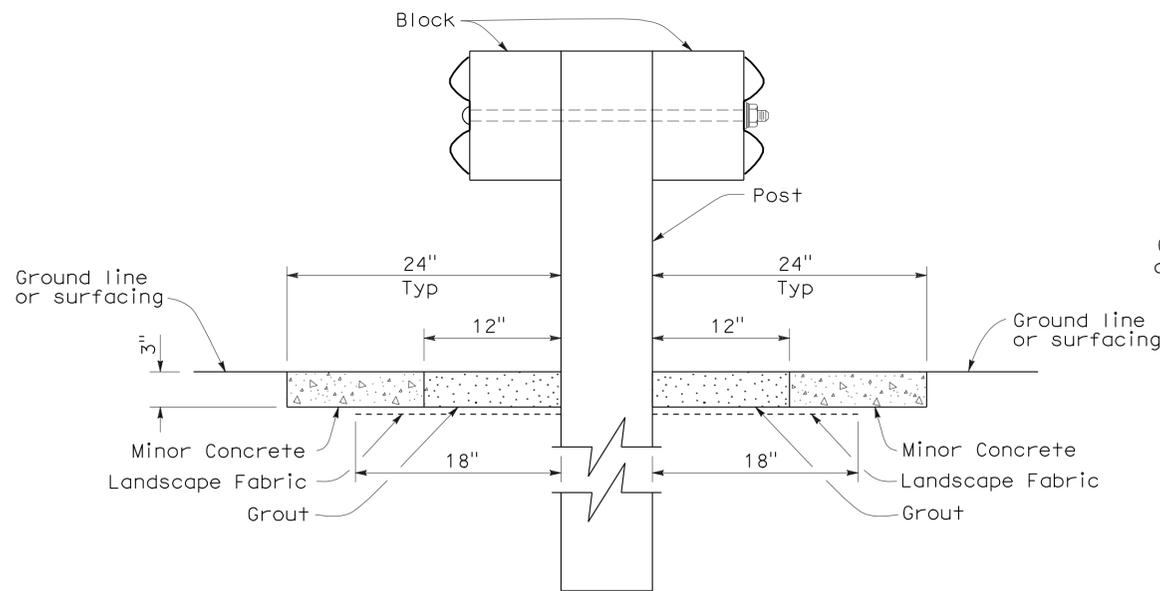
*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-07  
CIVIL  
STATE OF CALIFORNIA

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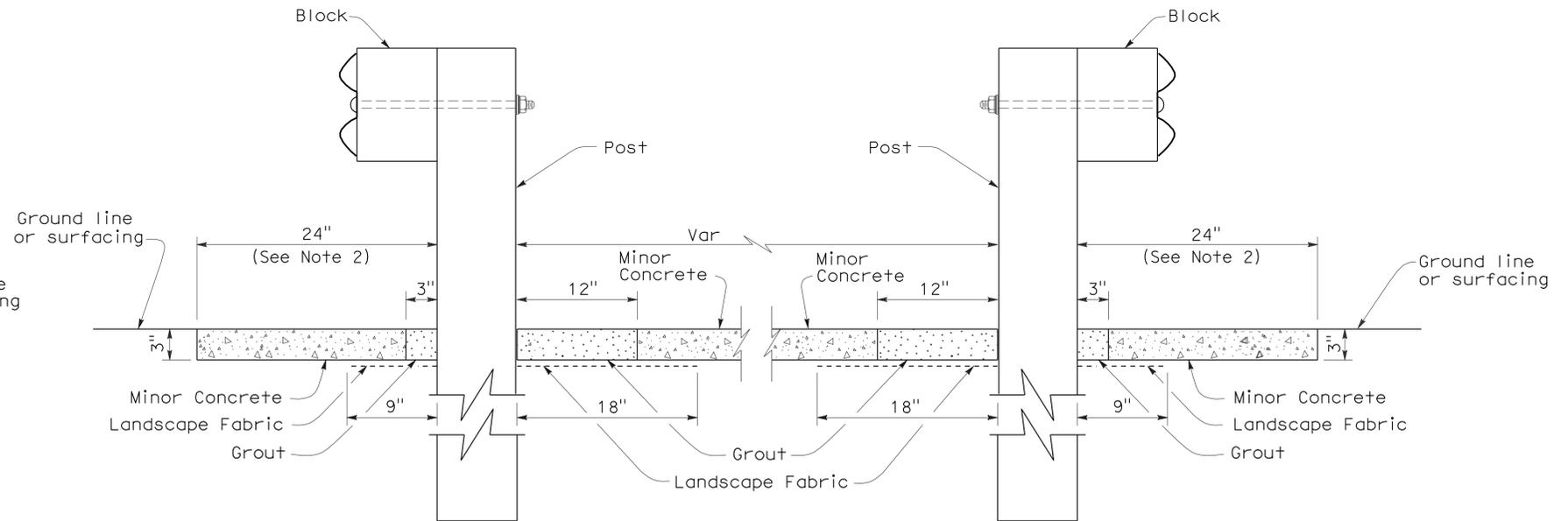
To accompany plans dated 2-22-11



**PLAN**  
FIXED OBJECT(S) BETWEEN SEPARATE ROADBEDS  
(ONE-WAY TRAFFIC)



**SECTION A-A**



**SECTION B-B**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING  
TYPICAL VEGETATION CONTROL  
AT FIXED OBJECT**

NO SCALE

NSP A77C10 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD  
PLANS BOOK DATED MAY 2006.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu	89	7.8/8.6	20	33

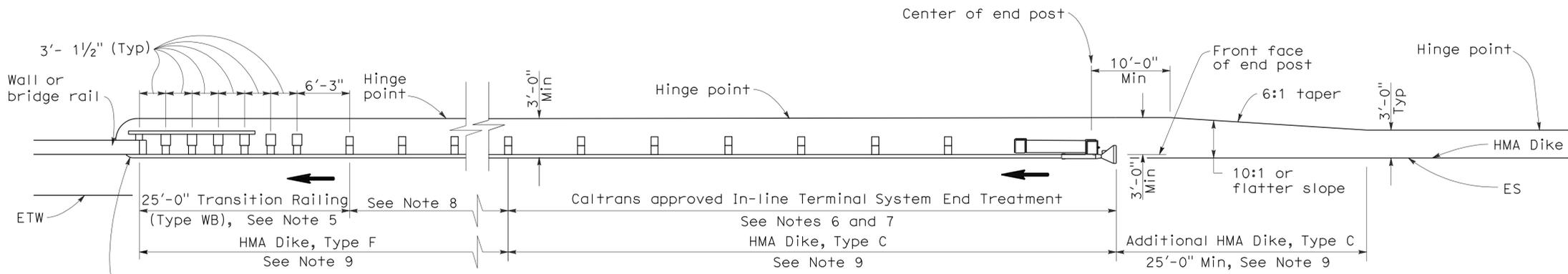
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

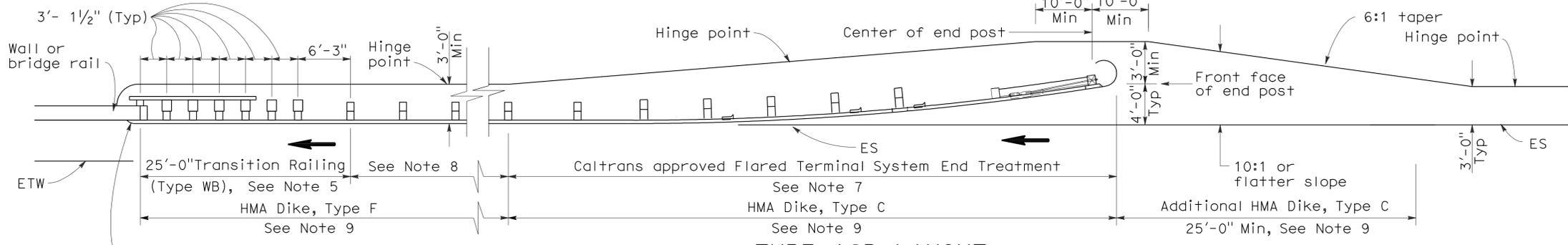
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To accompany plans dated 2-22-11



**TYPE 12A LAYOUT**

(GUARD RAILING INSTALLATION AT STRUCTURE APPROACH WITH AN IN-LINE END TREATMENT AT TRAFFIC APPROACH END OF RAILING)  
See Notes 10



**TYPE 12B LAYOUT**

(GUARD RAILING INSTALLATION AT STRUCTURE APPROACH WITH A FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING)  
See Notes 10

**NOTES:**

- Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- Direction of adjacent traffic indicated by  $\rightarrow$ .
- For Transition Railing (Type WB) details for Types 12A and 12B Layouts, see Standard Plan A77J4.
- In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system end treatment to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes, or other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatment.

- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.
- Type 12A or Type 12B Layouts are typically used:
  - To the right of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
  - To the left of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
  - To the right of approaching traffic at the end of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.
  - To the right of approaching traffic at the end of the structure on multilane freeways or expressways with decked median on the bridge.
- See Revised Standard Plan RSP A77F3 for typical layout used left of approaching traffic at the ends of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.

- For additional details of typical connections to bridge rail, see Connection Detail AA on Revised Standard Plans RSP A77J1 and RSP A77J2 and Connection Detail FF on Standard Plans A77K1 and A77K2.
- For additional details of a typical connection to walls or abutments, see Standard Plan A77J3.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING  
TYPICAL LAYOUTS FOR  
STRUCTURE APPROACH**

NO SCALE

RSP A77F1 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77F1  
DATED MAY 1, 2006 - PAGE 54 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A77F1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu	89	7.8/8.6	21	33

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

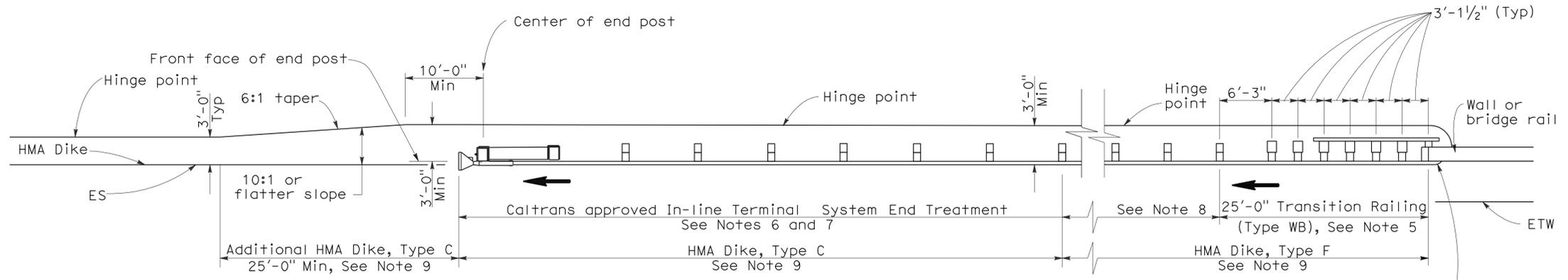
June 6, 2008  
PLANS APPROVAL DATE

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

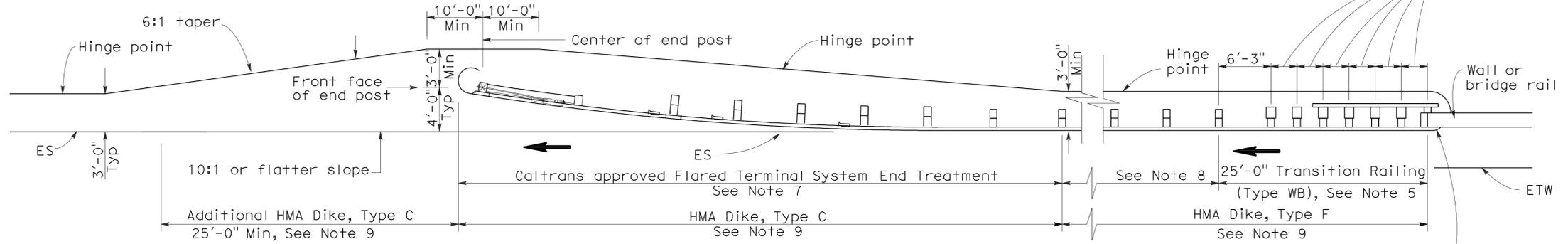
To accompany plans dated 2-22-11

2006 REVISED STANDARD PLAN RSP A77F4



**TYPE 12AA LAYOUT**

(GUARD RAILING INSTALLATION AT STRUCTURE DEPARTURE WITH AN IN-LINE END TREATMENT AT TRAILING END OF RAILING)  
See Notes 9 and 10



**TYPE 12BB LAYOUT**

(GUARD RAILING INSTALLATION AT STRUCTURE DEPARTURE WITH A FLARED END TREATMENT AT TRAILING END OF RAILING)  
See Notes 9 and 10

**NOTES:**

- Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- Direction of adjacent traffic indicated by  $\rightarrow$ .
- For Transition Railing (Type WB) details for Types 12AA and 12BB Layouts, see Standard Plan A77J4.
- In-line Terminal System Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes, other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatments.
- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.
- Type 12AA or Type 12BB Layouts are typically used to the right of traffic departing a structure on two-way conventional highways where the roadbed width across the structure is less than 40 feet.
- For additional details of typical connections to bridge rail, see Connection Detail CC on Revised Standard Plan RSP A77J2 and Connection Detail HH on Standard Plans A77k2.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING  
TYPICAL LAYOUTS FOR  
STRUCTURE DEPARTURE**

NO SCALE

RSP A77F4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77F4  
DATED MAY 1, 2006 - PAGE 57 OF THE STANDARD PLANS BOOK DATED MAY 2006.



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Piu	89	7.8/8.6	23	33

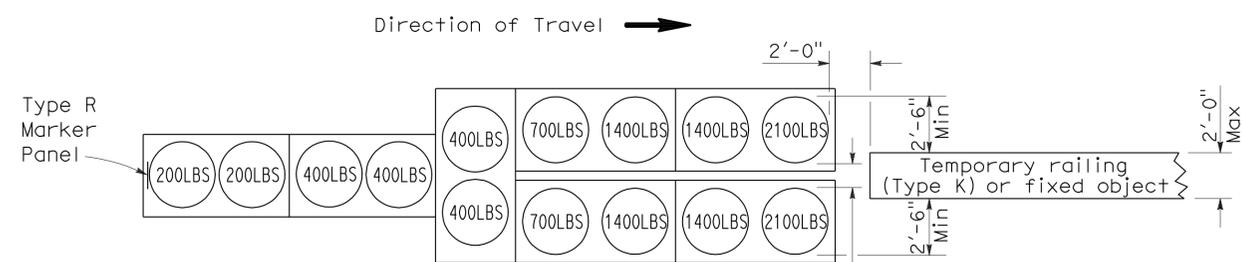
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

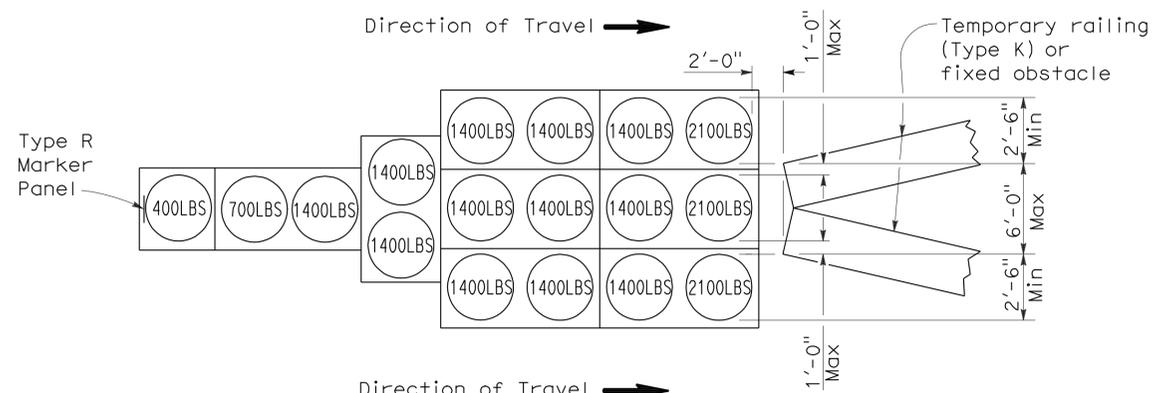
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To accompany plans dated 2-22-11



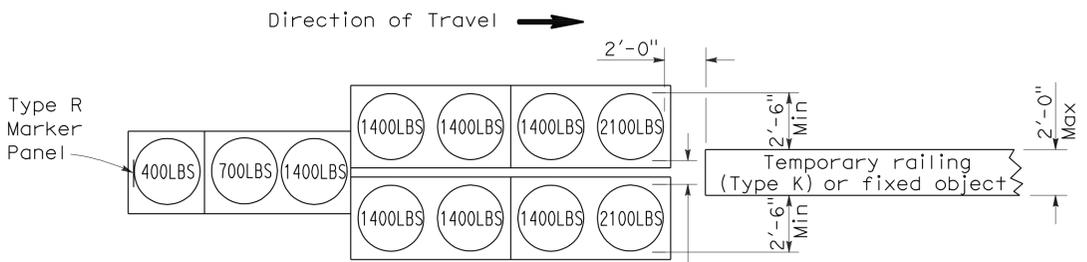
**ARRAY 'TU14'**

Approach speed 45 mph or more



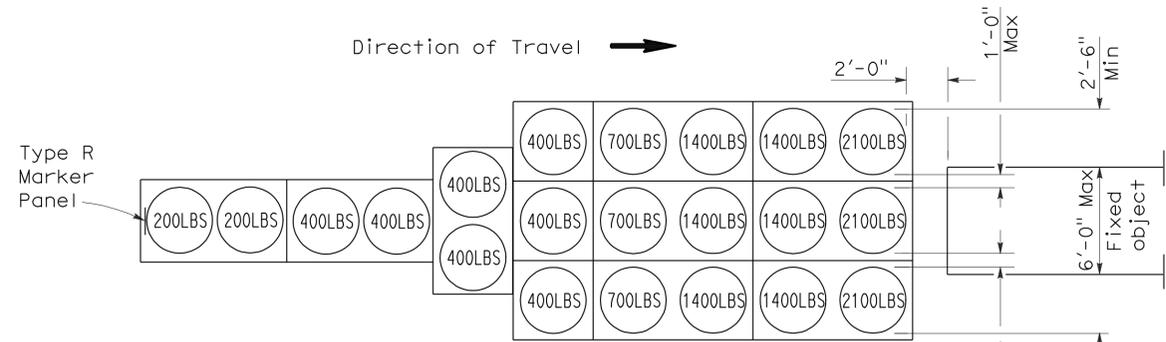
**ARRAY 'TU17'**

Approach speed less than 45 mph



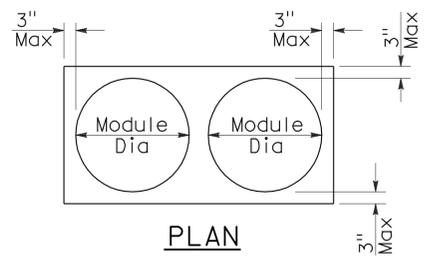
**ARRAY 'TU11'**

Approach speed less than 45 mph

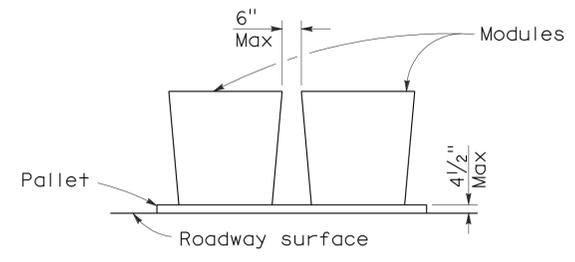


**ARRAY 'TU21'**

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 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

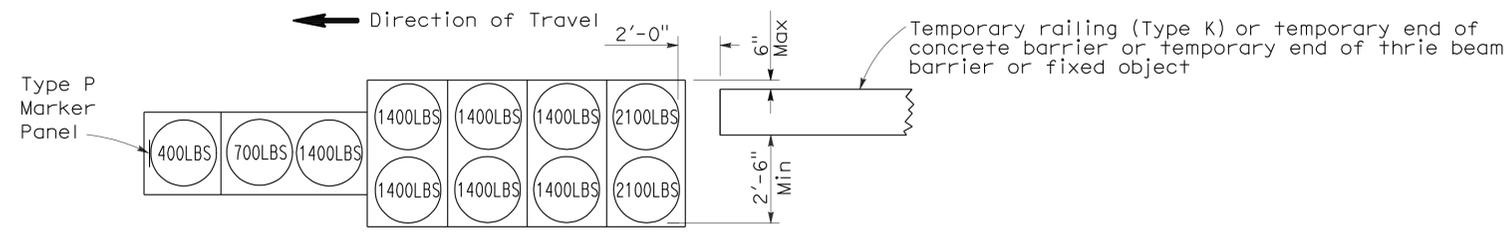
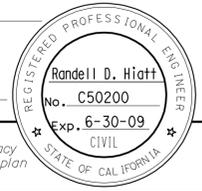
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Piu	89	7.8/8.6	24	33

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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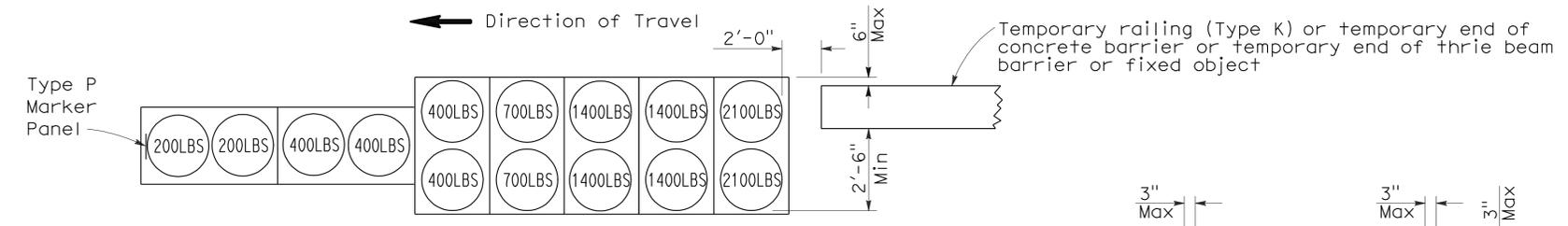
To accompany plans dated 2-22-11



Direction of Travel →

**ARRAY 'TB11'**

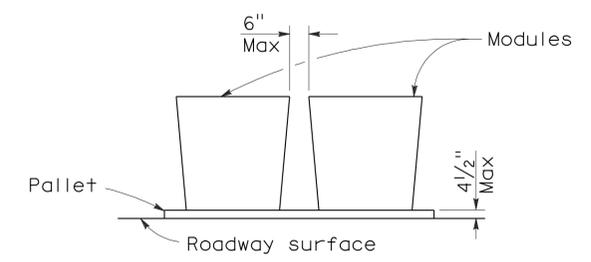
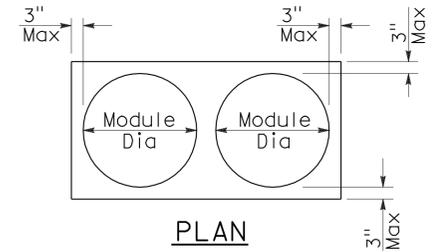
Approach speed less than 45 mph



Direction of Travel →

**ARRAY 'TB14'**

Approach speed 45 mph or more



**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

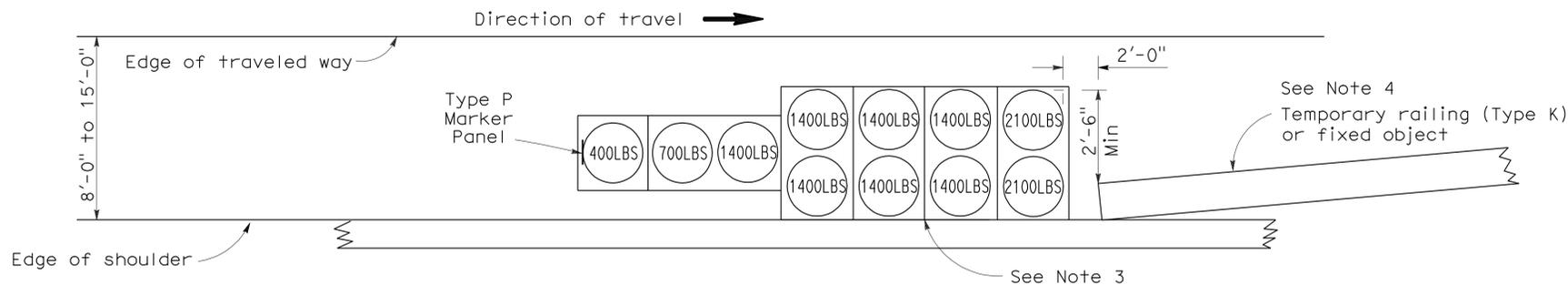
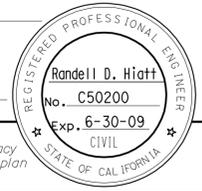
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu	89	7.8/8.6	25	33

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

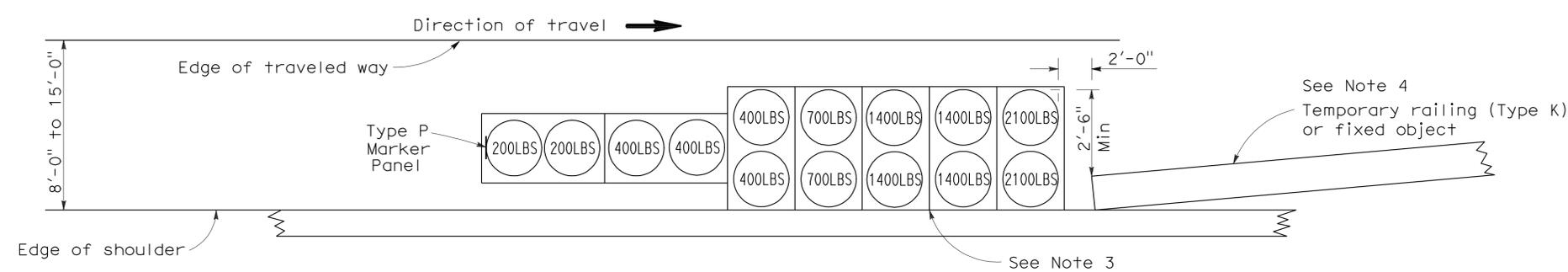
June 6, 2008  
PLANS APPROVAL DATE

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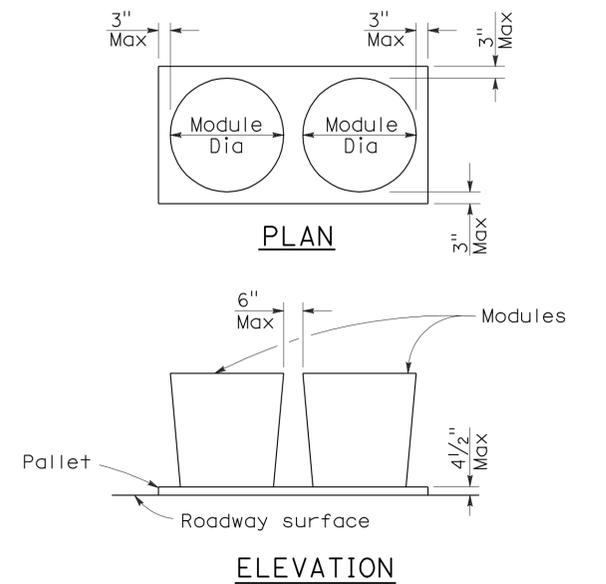
To accompany plans dated 2-22-11



**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:**

- ⊗ 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.

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

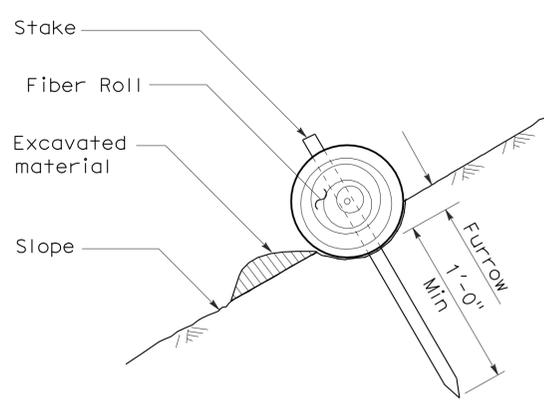


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu	89	7.8/8.6	27	33

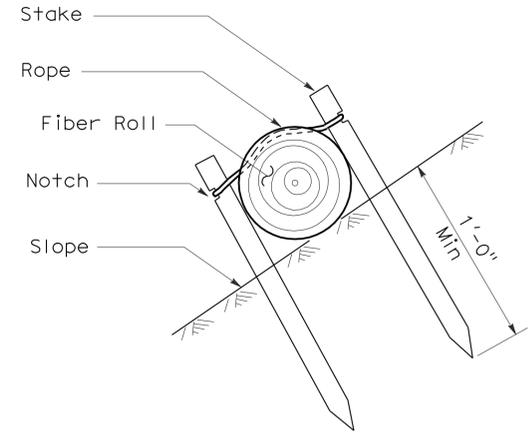
*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 April 3, 2009  
 PLANS APPROVAL DATE  
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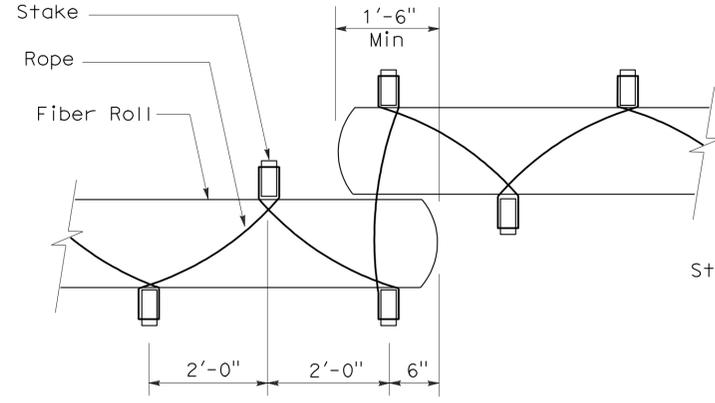
To accompany plans dated 2-22-11



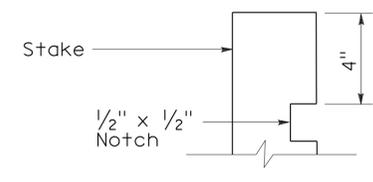
**SECTION**  
**TEMPORARY FIBER ROLL**  
**(TYPE 1)**



**SECTION**  
**TEMPORARY FIBER ROLL**  
**(TYPE 2)**

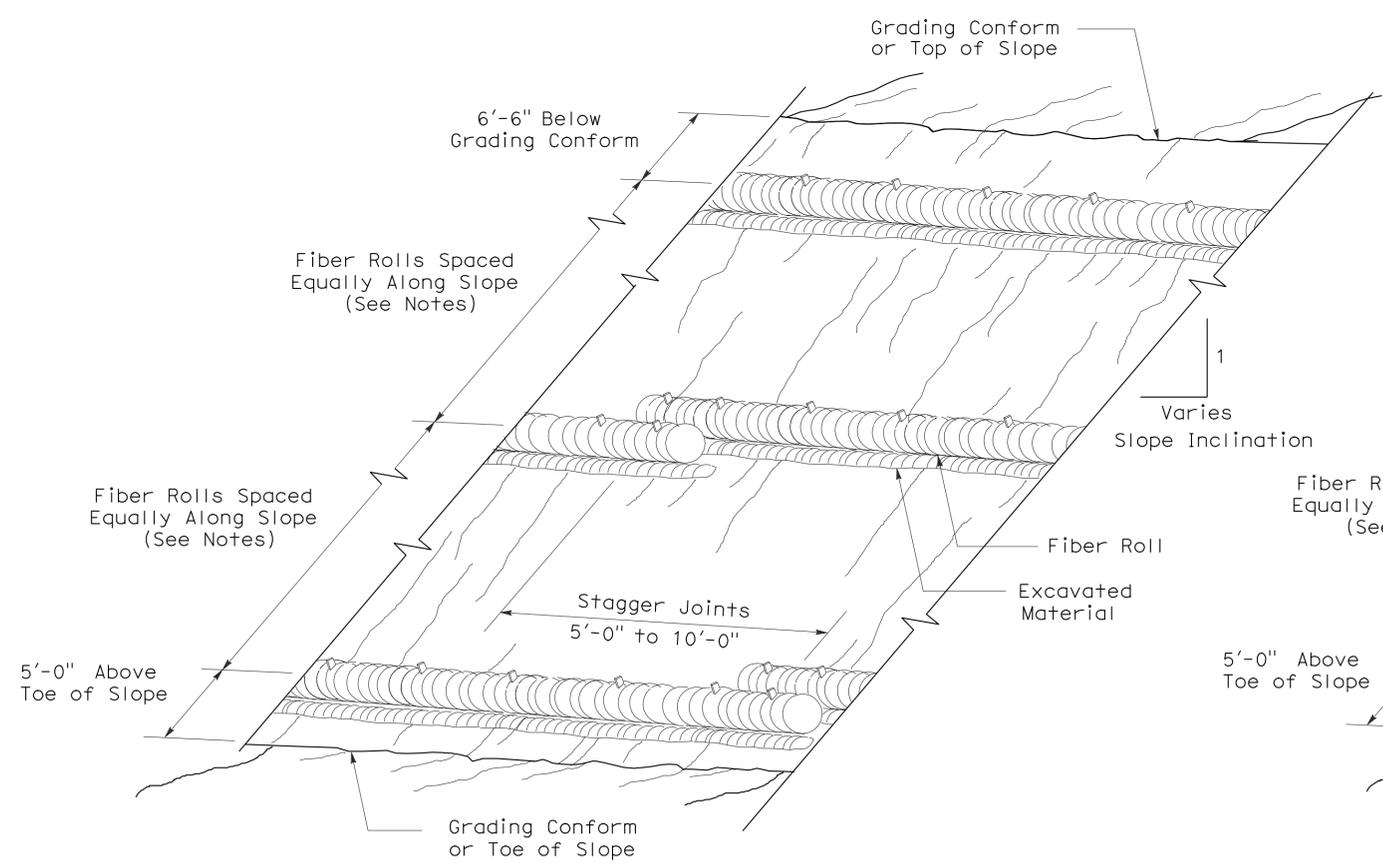


**PLAN**

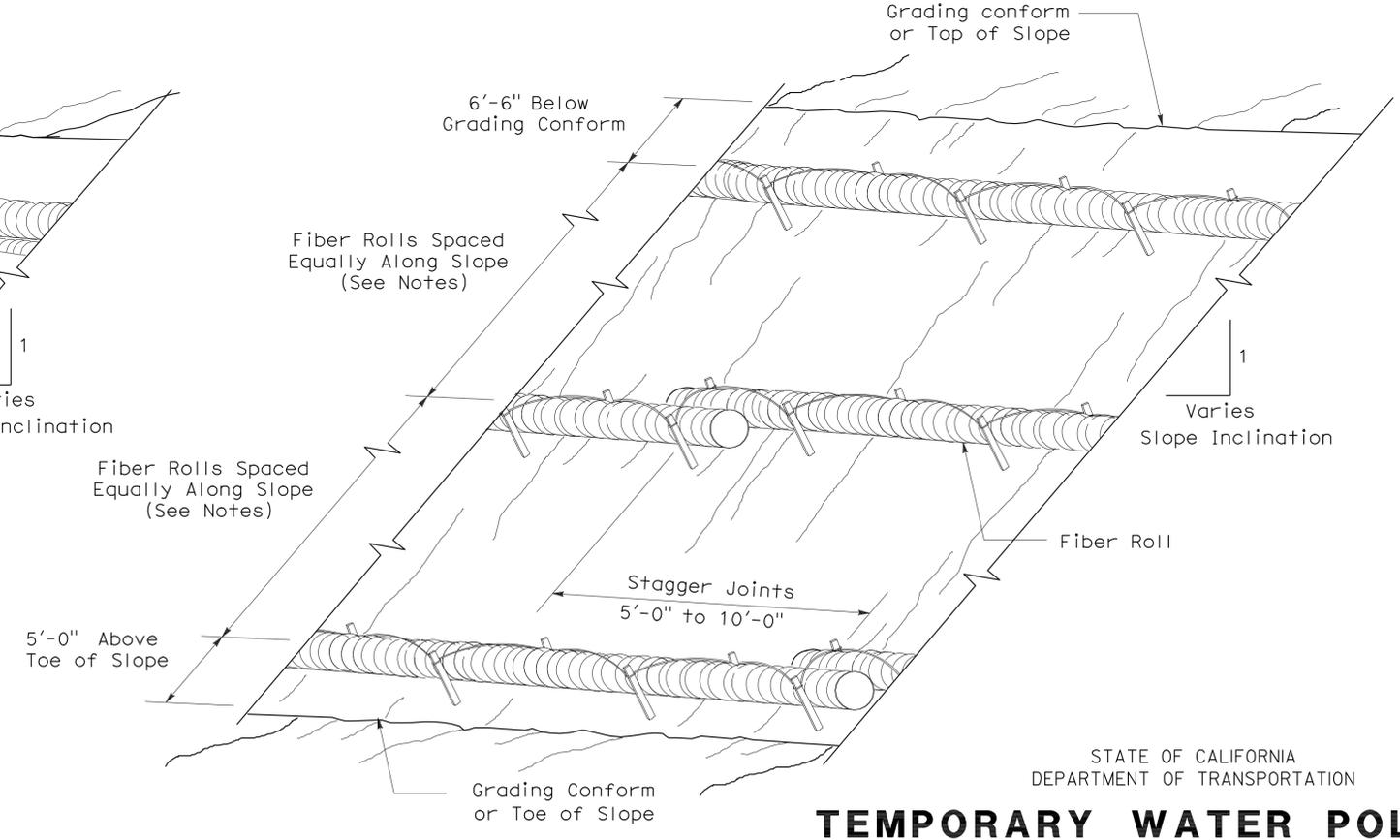


**ELEVATION**  
**STAKE NOTCH DETAIL**

- NOTES:**
1. Temporary fiber roll spacing varies depending upon slope inclination.
  2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



**PERSPECTIVE**  
**TEMPORARY FIBER ROLL (TYPE 1)**



**PERSPECTIVE**  
**TEMPORARY FIBER ROLL (TYPE 2)**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY FIBER ROLL)**

NO SCALE

RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T56**

2006 REVISED STANDARD PLAN RSP T56

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Piu	89	7.8/8.6	28	33

*Robert B Schott*  
 LICENSED LANDSCAPE ARCHITECT

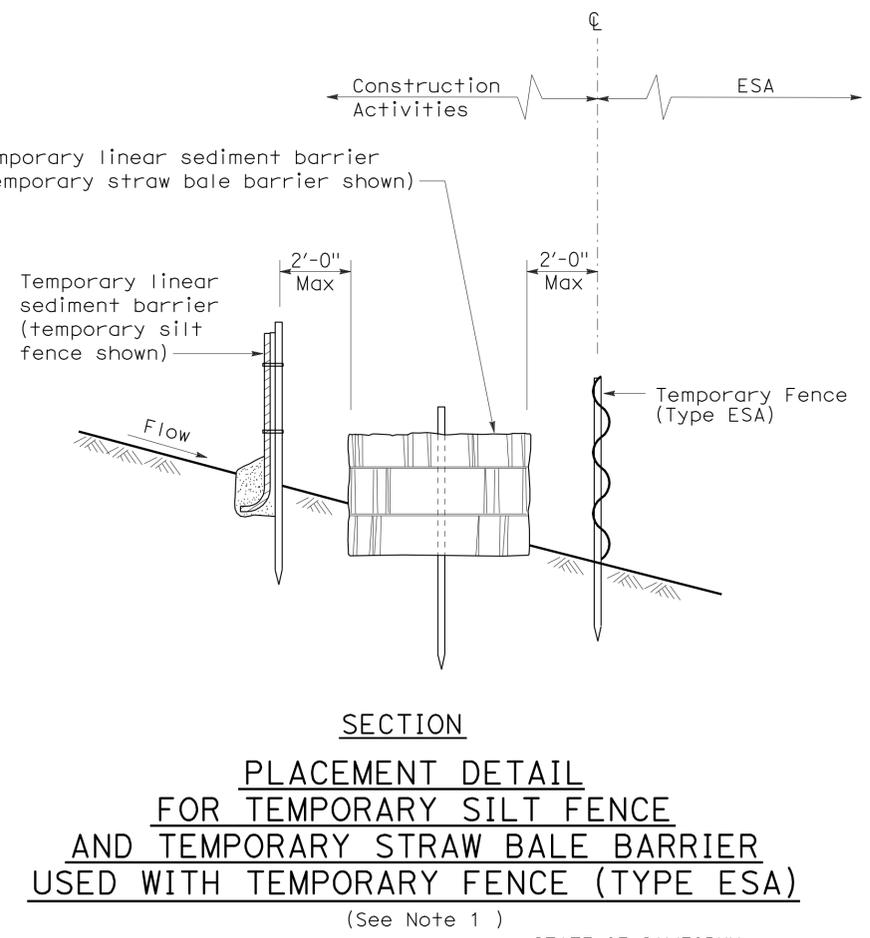
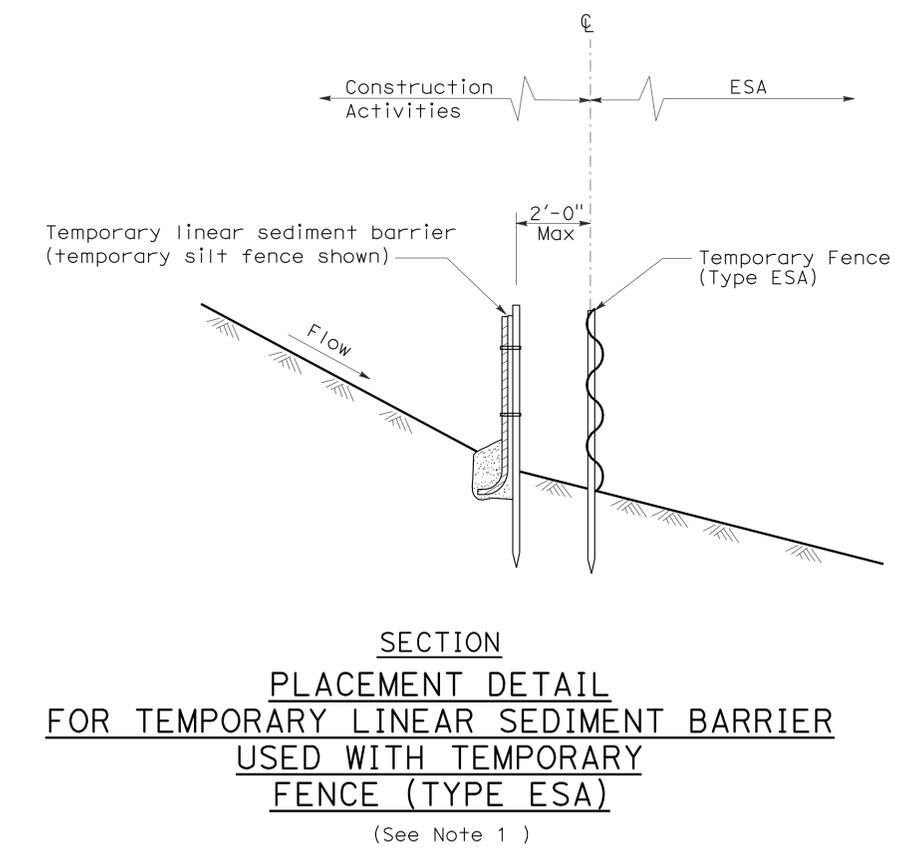
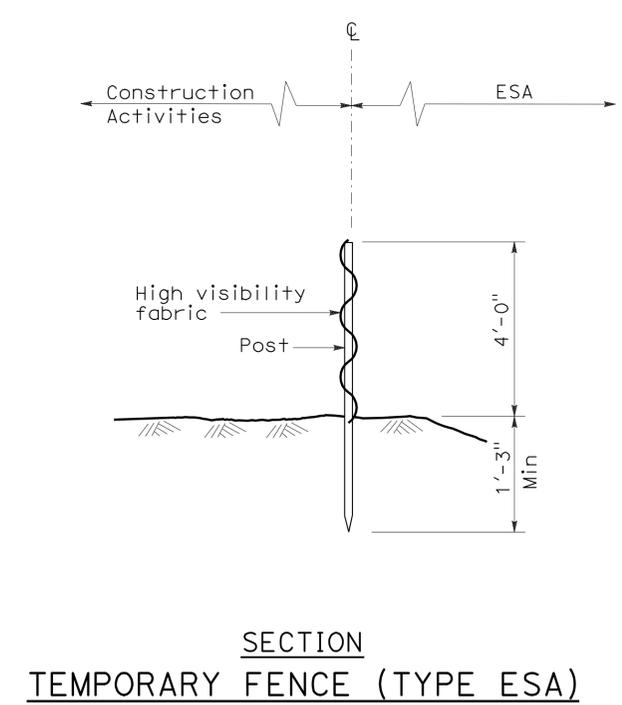
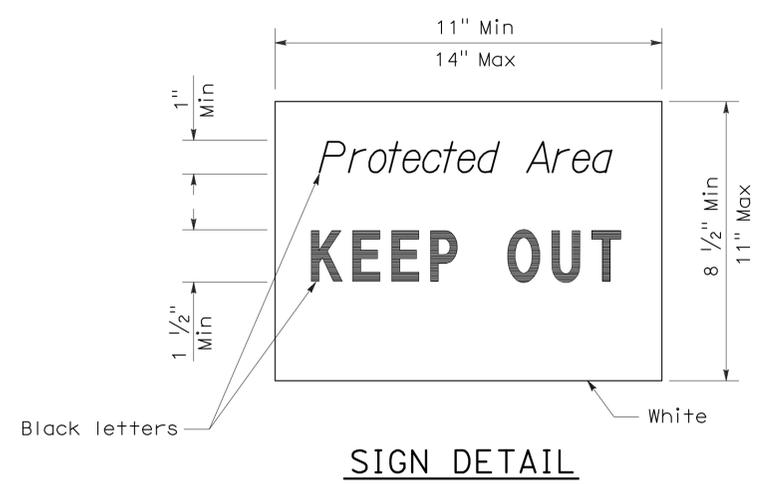
April 3, 2009  
 PLANS APPROVAL DATE

*Robert B Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 Signature  
 11-30-10  
 Renewal Date  
 2-25-09  
 Date

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To accompany plans dated 2-22-11

- NOTE:**
1. Temporary silt fence and temporary straw bale barrier shown for reference purposes only.

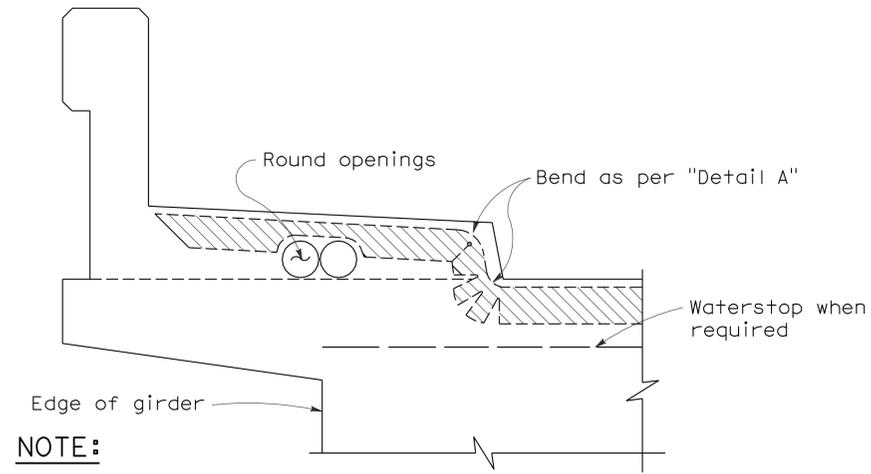
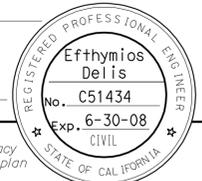


STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TEMPORARY WATER POLLUTION CONTROL DETAILS**  
**[TEMPORARY FENCE (TYPE ESA)]**  
 NO SCALE

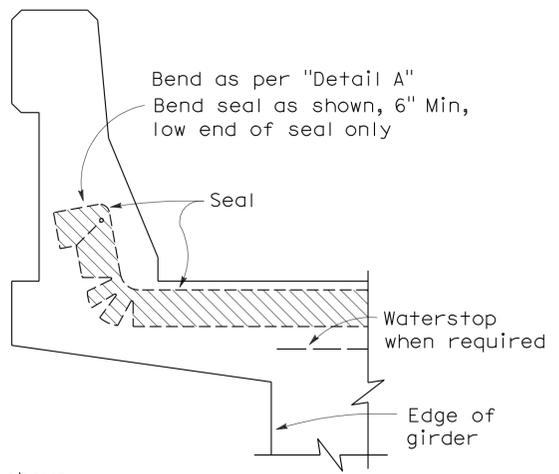
NSP T65 DATED APRIL 3, 2009 SUPPLEMENTS  
 THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T65

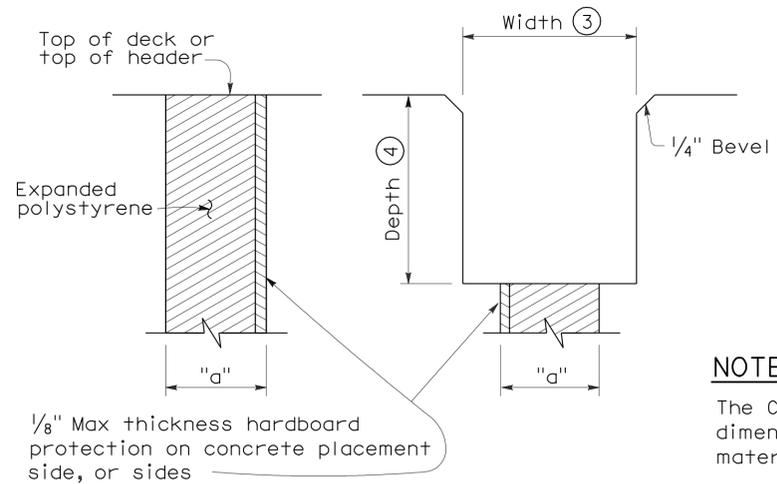


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



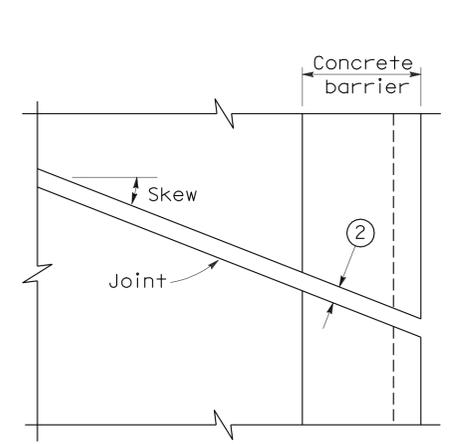
**CONCRETE BARRIER**



**FORMING DETAIL SAWCUT DETAIL**

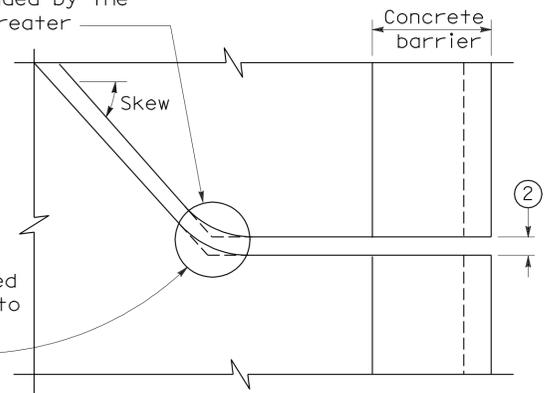
**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**JOINT SEALS DETAILS**



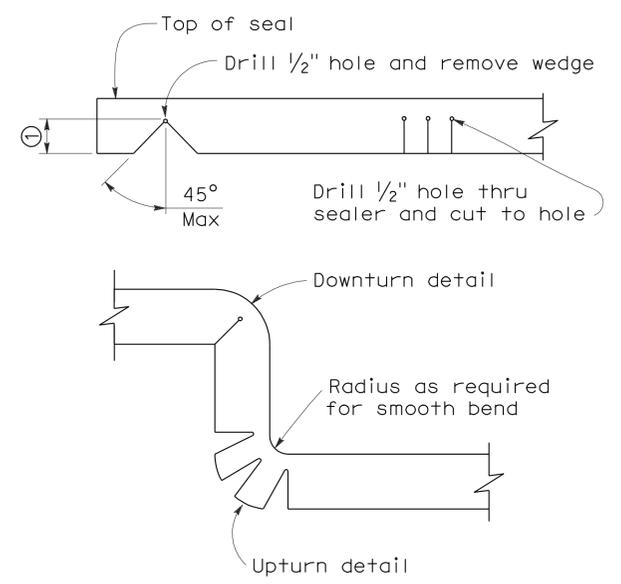
**PLAN OF JOINT (SKEW ≤ 20°)**

Min  $\phi$  radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



**PLAN OF JOINT (SKEW > 20°)**

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



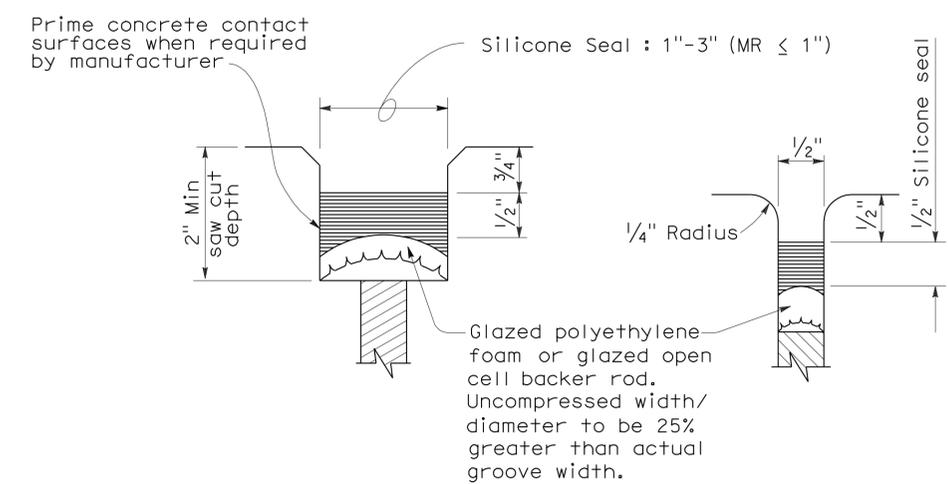
**DETAIL A**

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

**DIMENSIONS "a" OF JOINT REQUIRED**

Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**JOINT SEALS**  
**(MAXIMUM MOVEMENT RATING = 2")**  
 NO SCALE

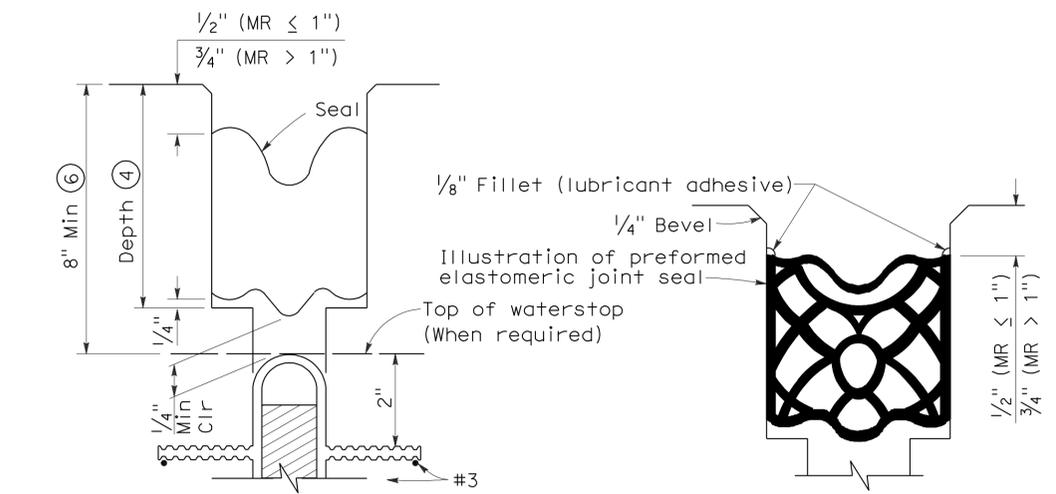


**TYPE A SEAL**

Movement rating : Silicone = 1" Max

**TYPE AL SEAL**

Longitudinal joints only



**TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W<sub>2</sub>)**

**TYPE B SEAL**

Movement Rating ≤ 2"

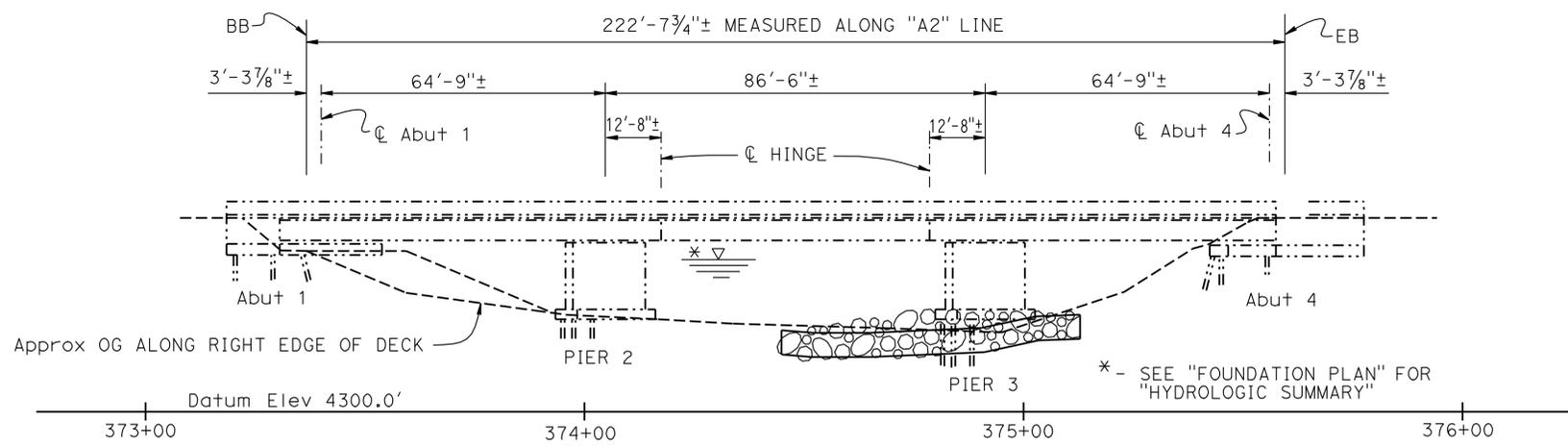
RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP B6-21**

2006 REVISED STANDARD PLAN RSP B6-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	PIU	89	7.8/8.6	30	33

Jose M. Aquino III  
 REGISTERED CIVIL ENGINEER DATE 8-23-10  
 PLANS APPROVAL DATE 2-22-11  
 No. 58386  
 Exp. 12-31-10  
 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.



**ELEVATION**

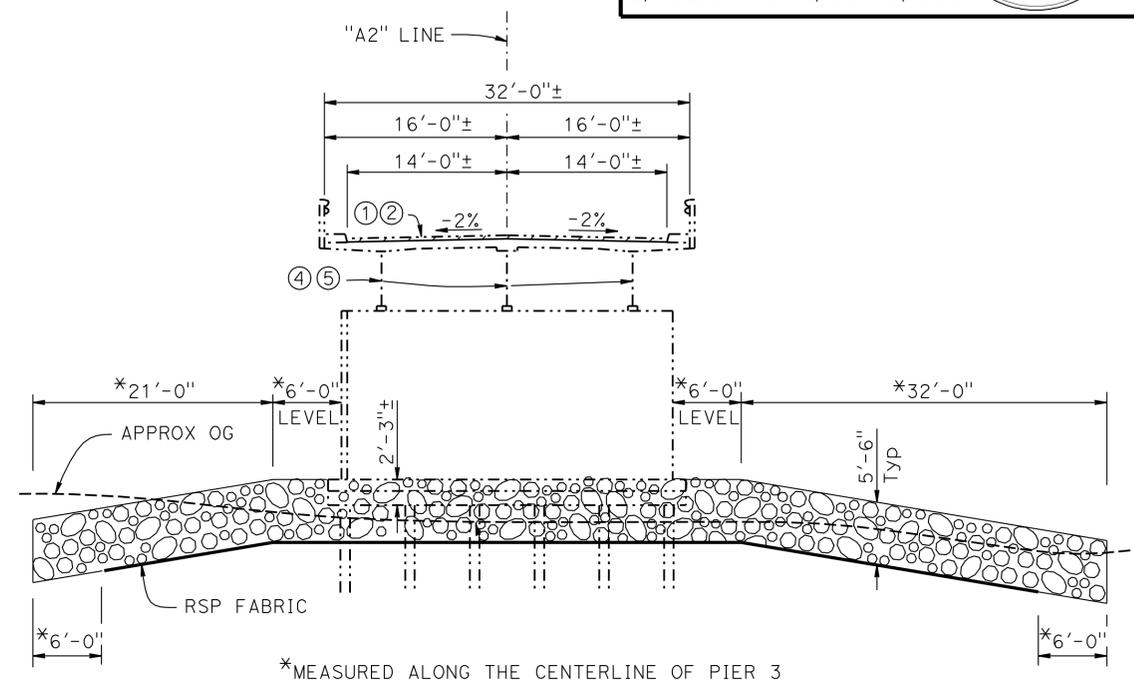
1" = 20'

**NOTES:**

- ① Remove 4"± AC Overlay
- ② 3/4" min and varies Polyester Concrete Overlay
- ③ Replace Abutment & Hinge Joint Seal (Type B, MR = 1")
- ④ Clean and paint steel girder
- ⑤ Spot blast steel girders (portion)

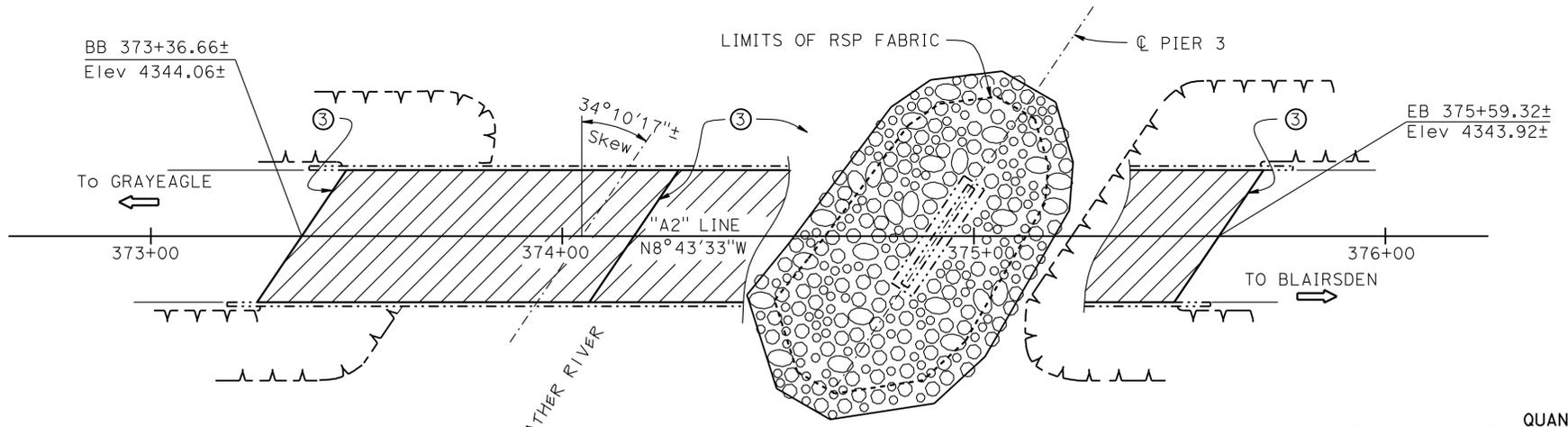
**LEGEND:**

- - - - - Indicates existing structure
- - - - - Indicates new structure
- [Hatched Box] Indicates removal of Exist AC, AC Membrane and unsound concrete, clean & prepare bridge deck, rapid set concrete deck patching, place Polyester Concrete Overlay
- [Riprap Box] Indicates limits of RSP (1 Ton Riprap, Method A placement) and RSP Fabric (Class 8)



**TYPICAL SECTION**

1/8" = 1'-0"



**PLAN**

1" = 20'

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

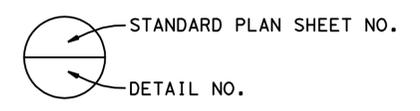
DESCRIPTION	QUANTITIES	UNIT
REMOVE ASPHALT CONCRETE SURFACING	6,234	SQFT
REMOVE UNSOUND CONCRETE	31	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,234	SQFT
CLEAN EXPANSION JOINT	140	LF
RAPID SETTING CONCRETE (PATCH)	31	CF
FURNISH POLYESTER CONCRETE OVERLAY	450	CF
PLACE POLYESTER CONCRETE OVERLAY	6,234	SQFT
JOINT SEAL (MR 1")	140	LF
CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP	SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP	SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	1,270	SQFT
WORK AREA MONITORING	LUMP	SUM
ROCK SLOPE PROTECTION (1 TON, METHOD A)	857	CY
ROCK SLOPE PROTECTION FABRIC	108	SQYD

**INDEX TO PLANS**

SHEET NO.	TITLE
1	GENERAL PLAN
2	FOUNDATION PLAN
3	MISCELLANEOUS DETAILS NO. 1
4	MISCELLANEOUS DETAILS NO. 2

**STANDARD PLANS DATED MAY 2006**

A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



**DECK REHAB/SCOUR MITIGATION**  
**MIDDLE FORK FEATHER RIVER BRIDGE**  
**GENERAL PLAN**

Joseph E. Downing DESIGN ENGINEER	DESIGN	BY Juan Jauregui	CHECKED Nael Alie	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: N/A	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	09-0063	
	DETAILS	BY J Chlubna/N C Gwynn	CHECKED Nael Alie	LAYOUT	BY Juan Jauregui			CHECKED Joey Aquino	POST MILE	8.2
	QUANTITIES	BY Juan Jauregui	CHECKED Joey Aquino	SPECIFICATIONS	BY Vaikunthan Renganathan			PLANS AND SPECS COMPARED V Renganathan	REVISION DATES	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 03258  
EA 2C2241

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
6-4-08 2-2-10 2-16-10 4-26-10 1-1-10 8-12-10	1	4

Bridge Location (PN Points)

- ① - 15.69 Lt. "A2" line @ Rte 89, Sta.373+48.11, Elev.=4343.14
- ② - 15.73 Lt. "A2" line @ Rte 89, Sta.375+66.97, Elev.=4343.18
- ③ - 16.31 Rt. "A2" line @ Rte 89, Sta.375+47.97, Elev.=4343.14
- ④ - 16.31 Rt. "A2" line @ Rte 89, Sta.373+29.04, Elev.=4343.22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	PIU	89	7.8/8.6	31	33

**Jose M. Aquino III** 8-23-10  
 REGISTERED CIVIL ENGINEER DATE  
 2-22-11  
 PLANS APPROVAL DATE  
 No. 58386  
 Exp. 12-31-10  
 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.

**HYDROLOGIC / HYDROLOGIC DATA SUMMARY**  
 DRAINAGE AREA: 725 SQUARE MILES

FREQUENCY (YEARS)	DESIGN FLOOD	BASE FLOOD
50	50	100
EXISTING WATER SURFACE ELEV. (FEET)	4338	4339.2
DISCHARGE (CUBIC FEET PER SECOND)	20,200	27,000

FLOOD PLAIN DATA ARE BASED UPON INFORMATION AVAILABLE WHEN THE PLANS WERE PREPARED AND ARE SHOWN TO MEET FEDERAL REQUIREMENTS. THE ACCURACY OF SAID INFORMATION IS NOT WARRANTED BY THE STATE AND INTERESTED OR AFFECTED PARTIES SHOULD MAKE THEIR OWN INVESTIGATIONS.



**SURVEY CONTROL**  
 CM 8.08 (Not Shown)  
 Fnd No.6 Rebar w/Aluminum Cap  
 25.31 Lt. "A2" Line @ Rte 89  
 Sta. 365+66.80  
 N 1,804,606.78  
 E 6,949,327.53  
 Elev.= 4343.10  
 CM 8.32 (Not Shown)  
 Fnd No.6 Rebar w/Aluminum Cap  
 41.63 Rt. "A2" Line @ Rte 89  
 Sta. 378+52.64  
 N 1,805,887.89  
 E 6,929,198.62  
 Elev.= 4346.45

**PRELIMINARY INVESTIGATION SECTION**

SCALE	VERT. DATUM	NAVD29	PHOTOGRAMMETRY AS OF: X
1"=20'	HORZ. DATUM	NAD83 (92)	SURVEYED BY Dist.
ALIGNMENT TIES	Dist. Traverse Sheet	DRAFTED BY Sharon Zheng 06/2008	CHECKED BY T.ZoInikova 06/2008

DESIGN	BY Juan Jauregui	CHECKED Noel Alie
DETAILS	BY Nancy C Gwynn	CHECKED Noel Alie
QUANTITIES	BY Juan Jauregui	CHECKED Joey Aquino

**STATE OF CALIFORNIA**  
**DEPARTMENT OF TRANSPORTATION**

**DIVISION OF ENGINEERING SERVICES**  
**STRUCTURE DESIGN**  
**DESIGN BRANCH 3**

BRIDGE NO.	09-0063
POST MILE	8.27

**DECK REHAB/SCOUR MITIGATION**  
**MIDDLE FORK FEATHER RIVER BRIDGE**  
**FOUNDATION PLAN**

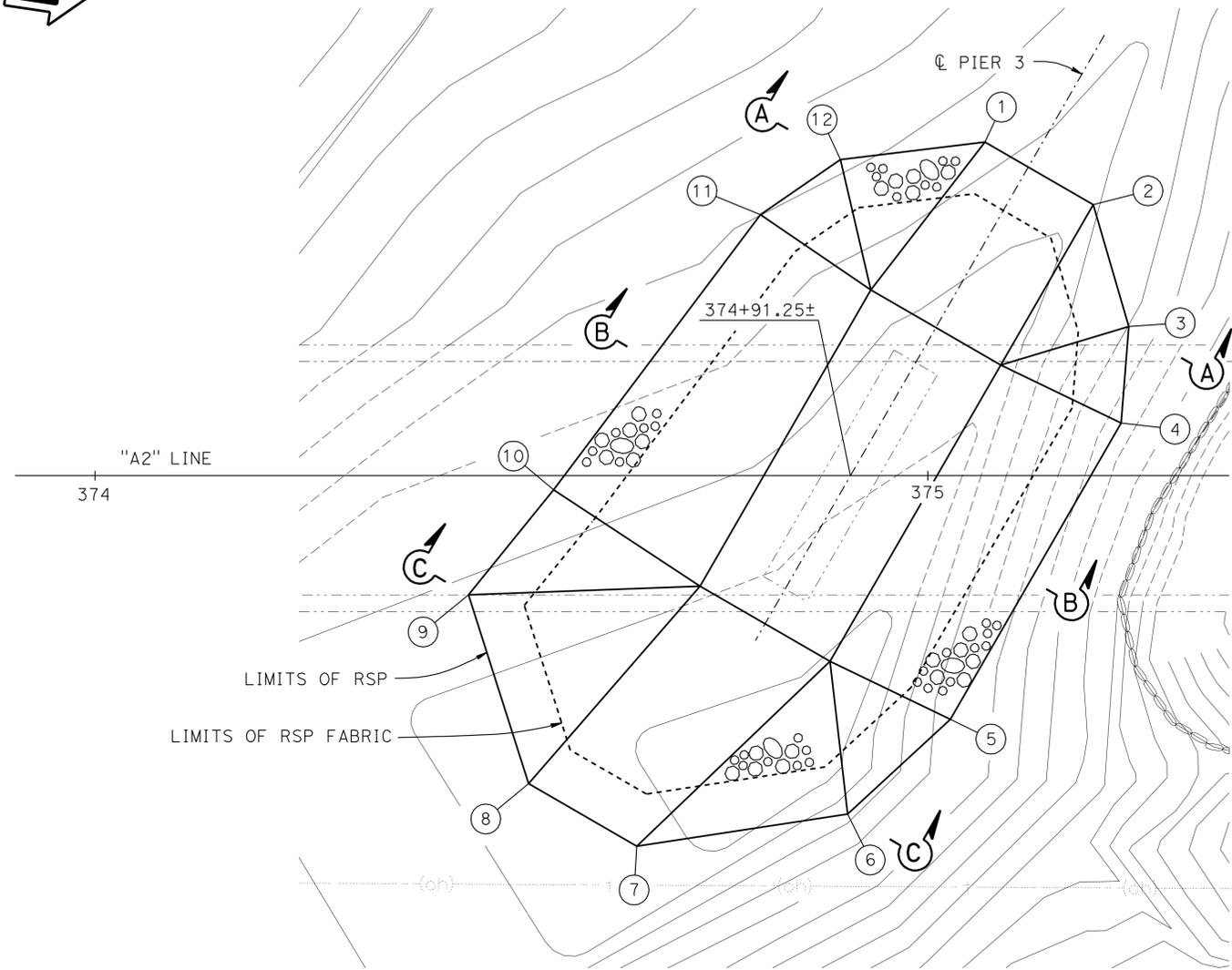
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	PIU	89	7.8/8.6	32	33

Jose M. Aquino III 8-23-10  
 REGISTERED CIVIL ENGINEER DATE

2-22-11  
 PLANS APPROVAL DATE

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RSP BACKFILL LIMITS	RSP LAYOUT COORDINATES	TOP OF RSP ELEVATION
①	N1805533.732, E6949170.408	4319.75±
②	N1805547.709, E6949175.852	4319.75±
③	N1805554.149, E6949189.628	4321.35±
④	N1805554.997, E6949201.226	4322.45±
⑤	N1805540.118, E6949239.431	4321.65±
⑥	N1805529.652, E6949252.526	4319.02±
⑦	N1805505.209, E6949260.177	4317.92±
⑧	N1805491.232, E6949254.733	4317.92±
⑨	N1805480.652, E6949233.442	4318.50±
⑩	N1805488.868, E6949219.471	4319.25±
⑪	N1805508.406, E6949183.081	4320.58±
⑫	N1805516.876, E6949175.111	4320.72±

NOTE:  
 For "SECTION A - A", "SECTION B - B" and "SECTION C - C",  
 see "MISCELLANEOUS DETAILS NO. 2" sheet

**PLAN**  
 1" = 10'

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

DESIGN BY Juan Jauregui CHECKED Nael Alie DETAILS BY Nancy C Gwynn CHECKED Nael Alie QUANTITIES BY Juan Jauregui CHECKED Joey Aquino			STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH <b>3</b>	BRIDGE NO. 09-0063 POST MILE 8.2	<b>DECK REHAB/ SCOUR MITIGATION</b> <b>MIDDLE FORK FEATHER RIVER BRIDGE</b> <b>MISCELLANEOUS DETAILS NO. 1</b>
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 03258 EA 2C2241	DISREGARD PRINTS BEARING EARLIER REVISION DATES
0 1 2 3					REVISION DATES	SHEET 3 OF 4

USERNAME => hrr1cgh DATE PLOTTED => 25-FEB-2011 TIME PLOTTED => 12:55

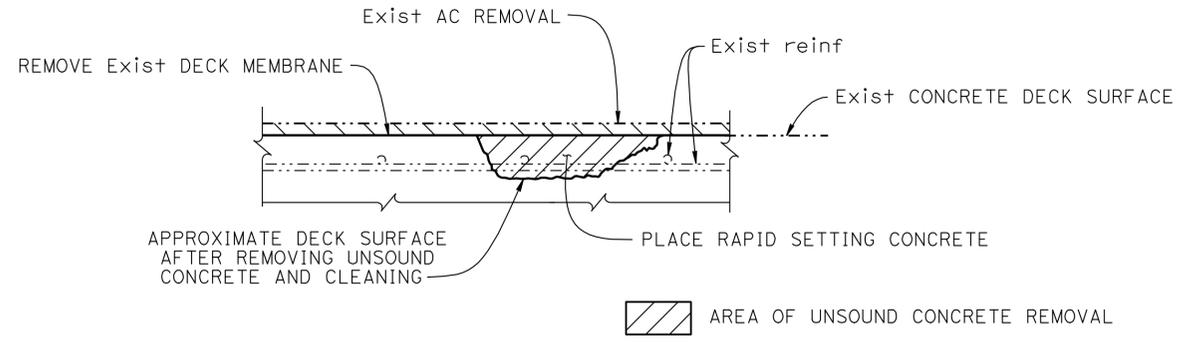
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
02	PIU	89	7.8/8.6	33	33

Jose M. Aquino III 8-23-10  
 REGISTERED CIVIL ENGINEER DATE

2-22-11  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 JOSE M AQUINO III  
 No. 58386  
 Exp. 12-31-10  
 CIVIL  
 STATE OF CALIFORNIA

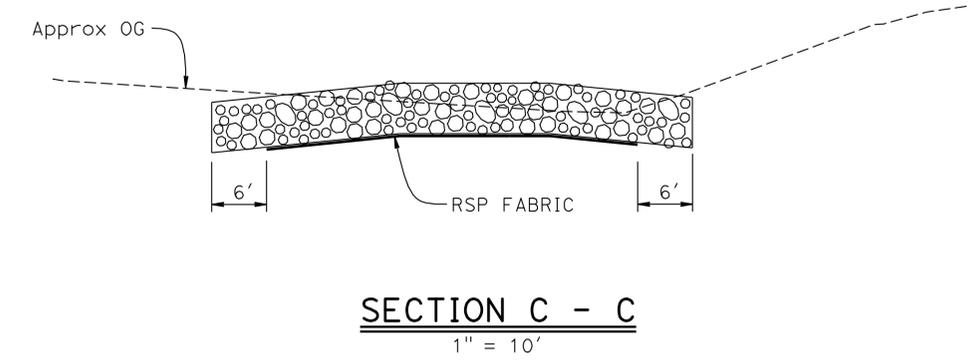
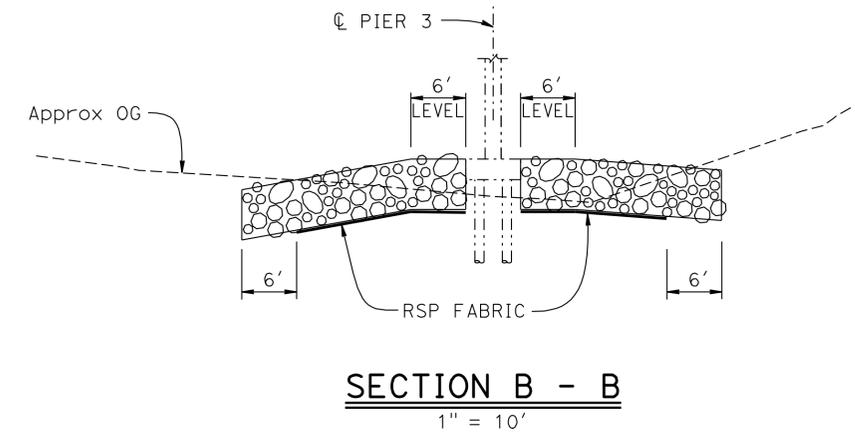
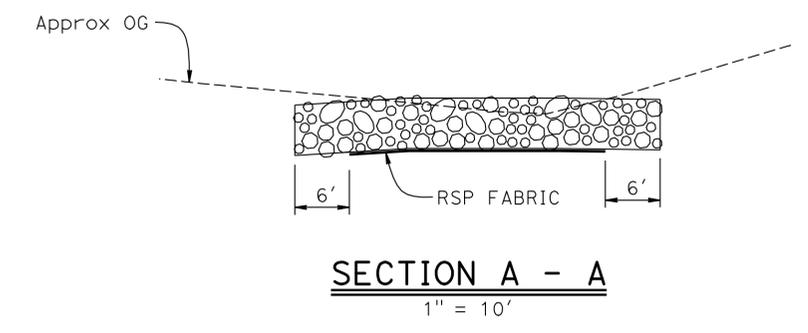


**DECK REPAIR DETAIL**

No Scale  
 LOCATIONS TO BE DETERMINED BY THE ENGINEER. REINFORCEMENT MAY BE ENCOUNTERED DURING DECK CONCRETE REMOVAL

BRIDGE DECK REPAIR TABLE				
TOTAL DECK AREA ft <sup>2</sup>	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (in)	REMOVE UNSOUND CONCRETE ft <sup>3</sup>	RAPID SETTING CONCRETE PATCH ft <sup>3</sup>
6,234	2	3	31	31

JOINT SEAL TABLE					
LOCATION	MR	REPLACE	Approx LENGTH	Exist WATERSTOP	Approx DEPTH CLEAN Exp JOINT
Abut 1	1"	YES	35'-0"	NO	3"
HINGE 1	1"	YES	35'-0"	NO	3"
HINGE 2	1"	YES	35'-0"	NO	3"
Abut 4	1"	YES	35'-0"	NO	3"



LEGEND:  
 - Indicates RSP

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

DESIGN BY Juan Jauregui CHECKED Nael Alie DETAILS BY Nancy C Gwynn CHECKED Nael Alie QUANTITIES BY Juan Jauregui CHECKED Joey Aquino	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO. 09-0063	<b>DECK REHAB/SCOUR MITIGATION</b> <b>MIDDLE FORK FEATHER RIVER BRIDGE</b> <b>MISCELLANEOUS DETAILS NO. 2</b>
			POST MILE 8.2	
			DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 3-00-10, 4-30-10, 7-1-10	

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 FILE => 09-0063-f-misc02.dgn  
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