

INDEX OF PLANS

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

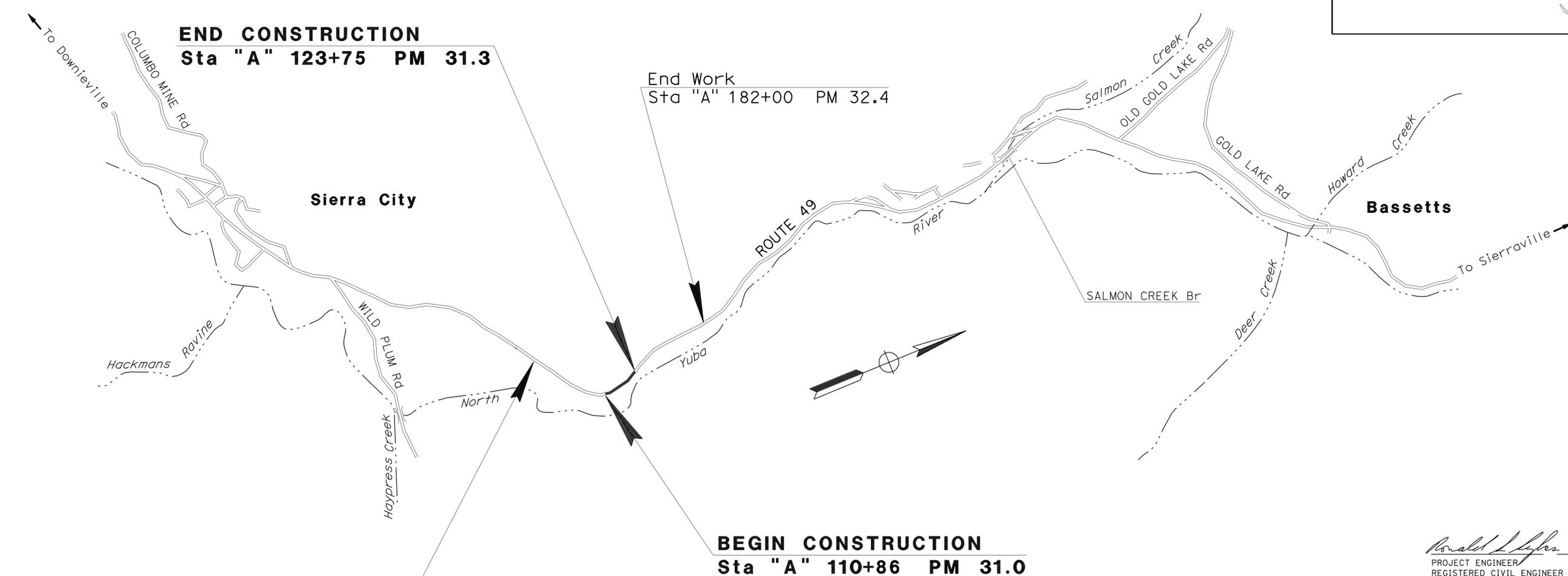
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SIERRA COUNTY
NEAR SIERRA CITY
FROM 1.9 MILES SOUTH OF SALMON CREEK BRIDGE
TO 1.6 MILES SOUTH OF SALMON CREEK BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sie	49	31.0/31.3	1	15

LOCATION MAP



PROJECT MANAGER
RONALD S. SYKES

DESIGN ENGINEER
NIK BEACH

Ronald S. Sykes 2-16-12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

February 27, 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.

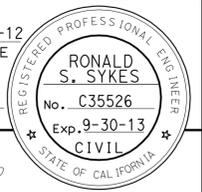
CONTRACT No.	03-4M4204
PROJECT ID	0300020678

DATE PLOTTED => 29-FEB-2012
TIME PLOTTED => 14:23
09-15-11

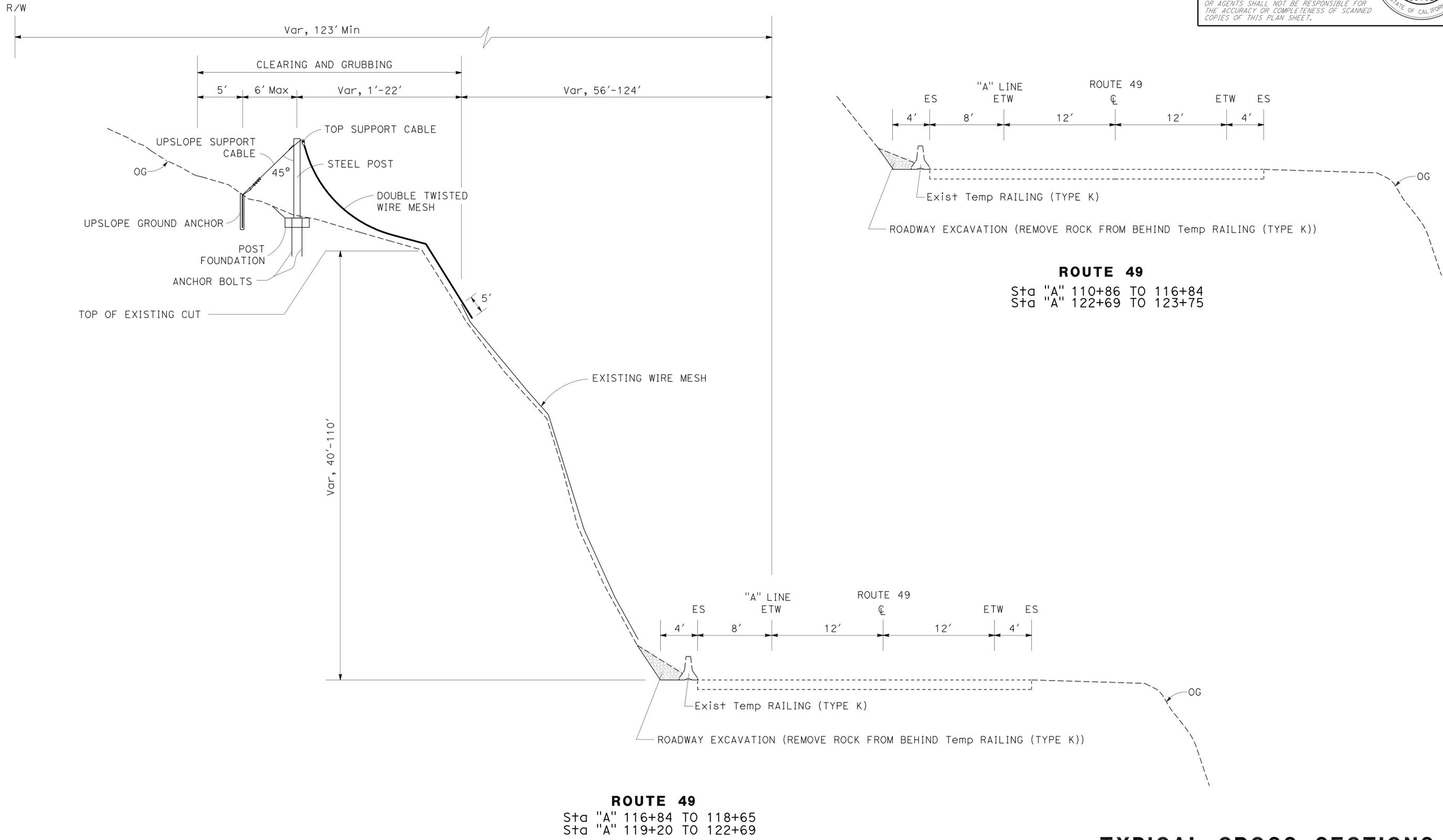
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sie	49	31.0/31.3	2	15

<i>Ronald S. Sykes</i>	2-16-12
REGISTERED CIVIL ENGINEER	DATE
2-27-12	
PLANS APPROVAL DATE	

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DISTRICT 3 DIVISION OF MAINTENANCE
FUNCTIONAL SUPERVISOR
RONALD S. SYKES
CALCULATED/DESIGNED BY
CHECKED BY
N. BEACH
RONALD S. SYKES
REVISOR
DATE



TYPICAL CROSS SECTIONS
NO SCALE
X-1

LAST REVISION | DATE PLOTTED => 29-FEB-2012
11-30-11 | TIME PLOTTED => 14:23

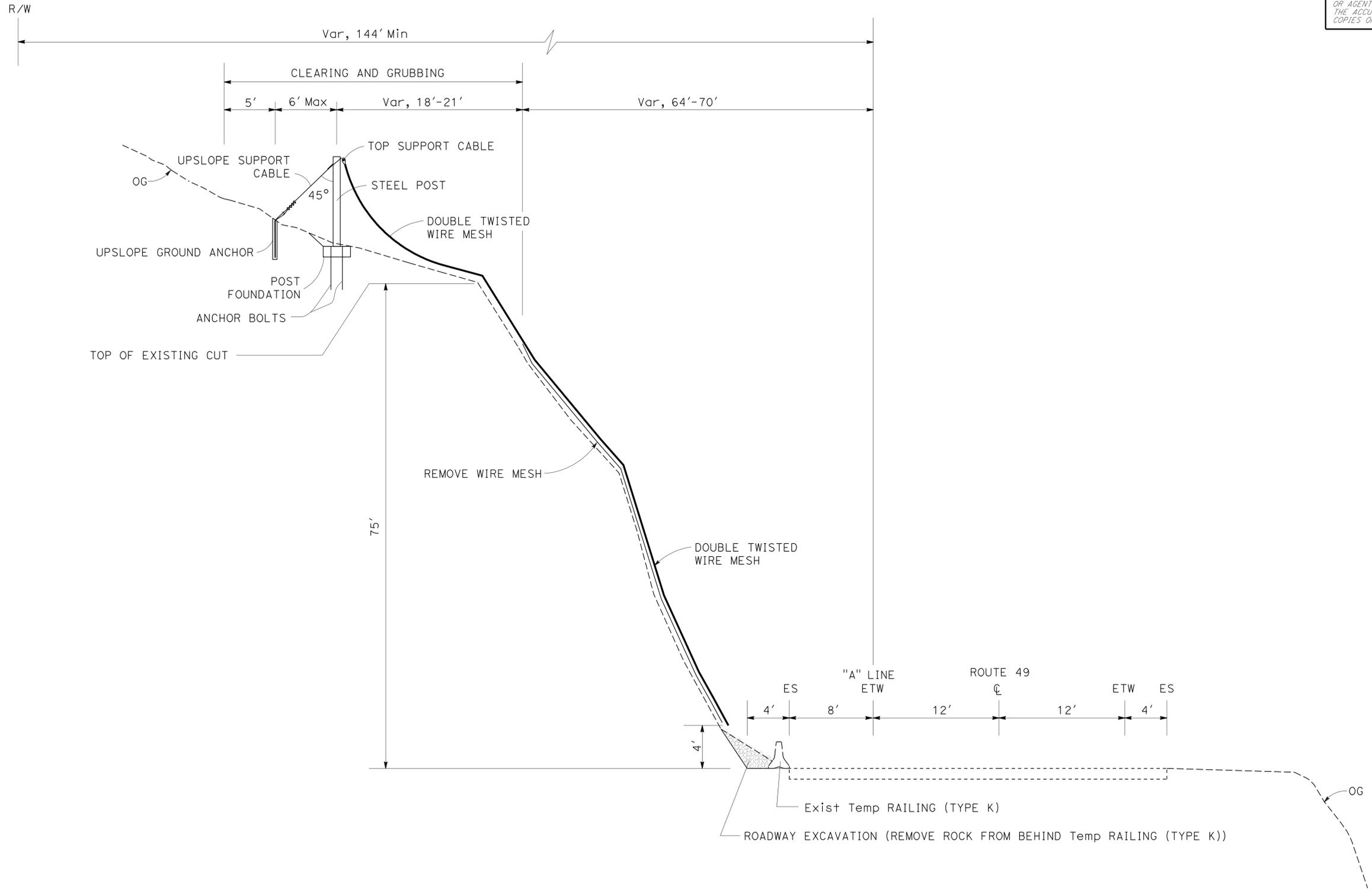
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sie	49	31.0/31.3	3	15

<i>Ronald S. Sykes</i> REGISTERED CIVIL ENGINEER	2-16-12 DATE
2-27-12 PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER RONALD S. SYKES No. C35526 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA
--

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DISTRICT 3 DIVISION OF MAINTENANCE
FUNCTIONAL SUPERVISOR RONALD S. SYKES
CALCULATED/DESIGNED BY CHECKED BY
N. BEACH RONALD S. SYKES
REVISED BY DATE REVISED



ROUTE 49
Sta "A" 118+65 TO 119+20

TYPICAL CROSS SECTIONS
NO SCALE

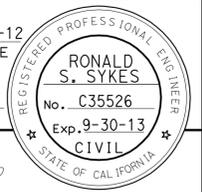
X-2

LAST REVISION | DATE PLOTTED => 29-FEB-2012
11-30-11 TIME PLOTTED => 14:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sie	49	31.0/31.3	4	15

<i>Ronald S. Sykes</i>	2-16-12
REGISTERED CIVIL ENGINEER	DATE
2-27-12	
PLANS APPROVAL DATE	

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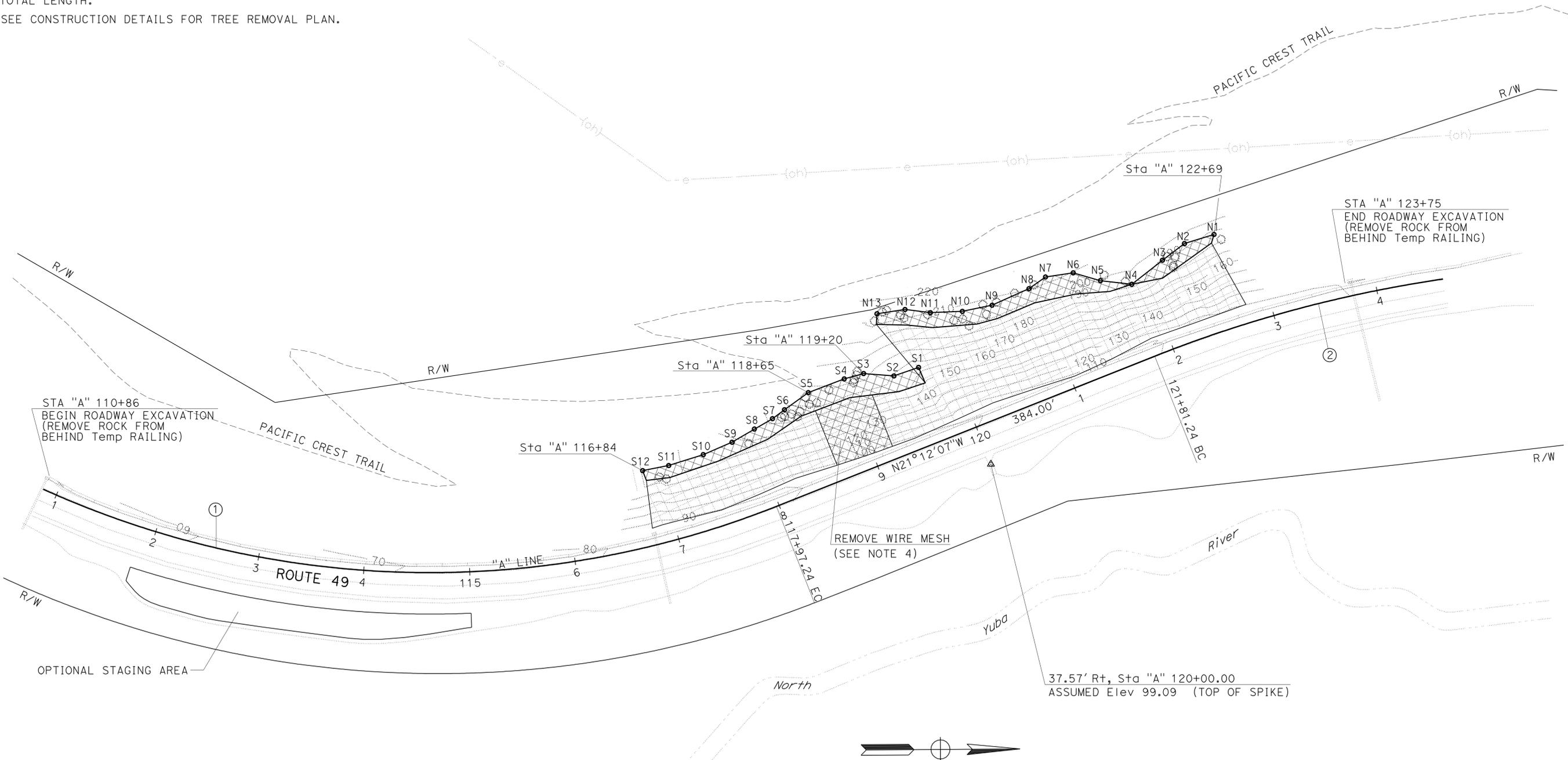
NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- STEEL POST LOCATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- DOUBLE TWISTED WIRE MESH TO BE PLACED FROM TOP SUPPORT CABLE TO 5 FEET BEYOND EXISTING WIRE MESH.
- EXISTING WIRE MESH FROM Sta "A" 118+65 TO Sta "A" 119+20 TO BE REMOVED AND REPLACED WITH DOUBLE TWISTED WIRE MESH.
- REMOVE EXISTING HORIZONTAL AND VERTICAL SUPPORT CABLES WITHIN EXISTING WIRE MESH. EXISTING LATERAL AND VERTICAL SUPPORT CABLES NOT SHOWN FOR CLARITY. SEE SUMMARY OF QUANTITIES FOR TOTAL LENGTH.
- SEE CONSTRUCTION DETAILS FOR TREE REMOVAL PLAN.

LEGEND:

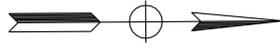
- DOUBLE TWISTED WIRE MESH
- Exist WIRE MESH
- "Nx" or "Sx" STEEL POST ANCHOR FOUNDATION NUMBER
- Exist TREE (SEE NOTE 6)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DIVISION OF MAINTENANCE
 DISTRICT 3
 FUNCTIONAL SUPERVISOR: RONALD S. SYKES
 CALCULATED/DESIGNED BY: CHECKED BY:
 N. BEACH: RONALD S. SYKES
 REVISIONS: REVISOR: DATE
 REVISOR: DATE



CURVE DATA

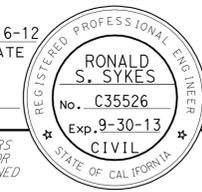
No. ①	R	Δ	T	L
①	888'	88°03'52"	873.62'	1280.37'
②	1212'	24°12'17"	259.88'	512.01'



LAYOUT
SCALE: 1" = 50'

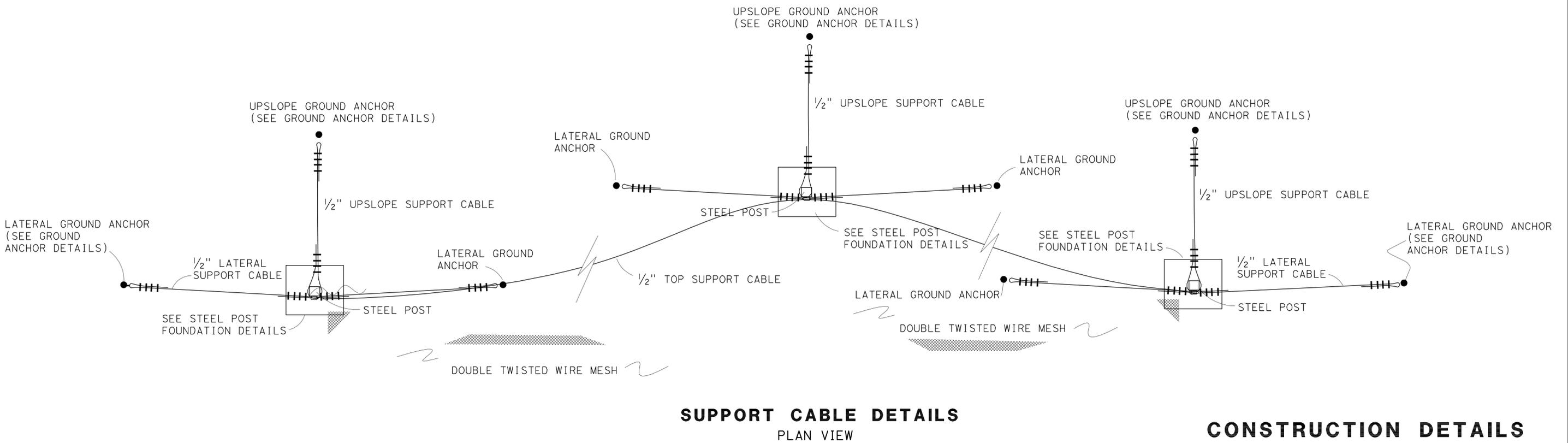
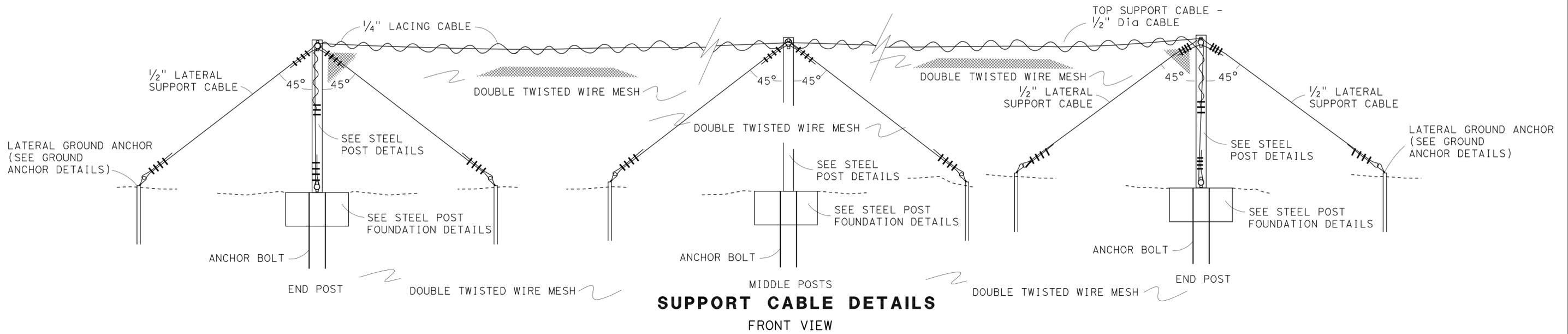
L-1

LAST REVISION: DATE PLOTTED => 29-FEB-2012
 11-30-11 TIME PLOTTED => 14:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sie	49	31.0/31.3	5	15
 REGISTERED CIVIL ENGINEER			2-16-12	DATE	
2-27-12 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:

1. UPSLOPE AND LATERAL GROUND ANCHOR PULL OUT STRENGTH = 5 TONS.
2. LATERAL SUPPORT CABLE, UPSLOPE SUPPORT CABLE AND TOP SUPPORT CABLE SHALL BE SEPARATE, INDEPENDENT CABLES.
3. TOP SUPPORT CABLE CONTINUOUS TO BOTTOM OF END POSTS.
4. DOUBLE TWISTED WIRE MESH LIMITS AS SHOWN ON LAYOUT.
5. DOUBLE TWISTED WIRE MESH SHALL BE ATTACHED TO THE TOP SUPPORT CABLE BY LACING A 1/4" CABLE THROUGH EACH OPENING IN THE DOUBLE TWISTED WIRE MESH AND AROUND THE TOP SUPPORT CABLE.



CONSTRUCTION DETAILS
NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DISTRICT 3
 DIVISION OF MAINTENANCE

REVISIONS:
 REVISED BY: B. WEBSTER
 DATE REVISED: RONALD S. SYKES

CALCULATED/DESIGNED BY: RONALD S. SYKES
 CHECKED BY:

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

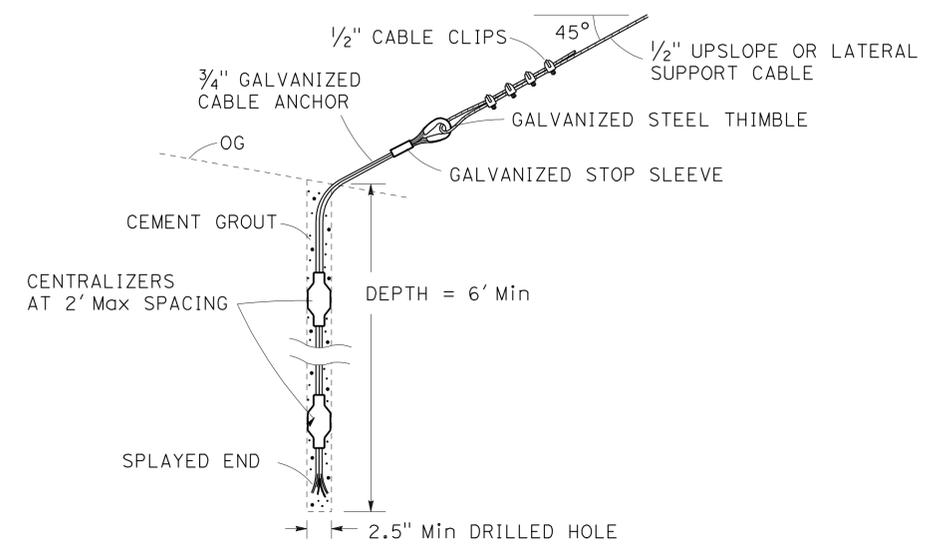
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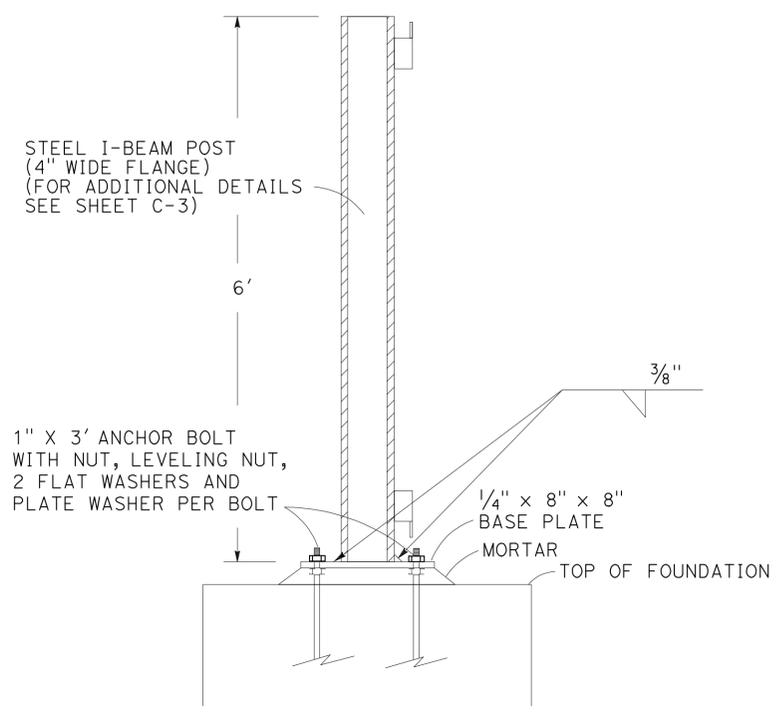
LAST REVISION: DATE PLOTTED => 29-FEB-2012
 11-30-11 TIME PLOTTED => 14:23

NOTE:

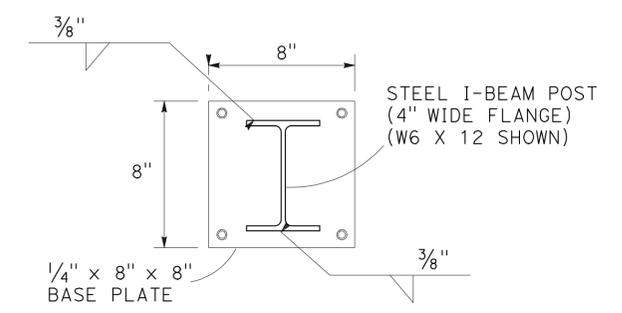
1. POST FOUNDATION DETAILS AS SHOWN OR AS DIRECTED BY THE ENGINEER.



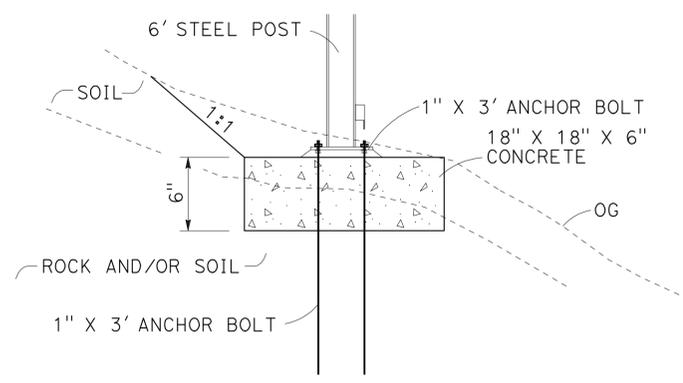
UPSLOPE & LATERAL GROUND ANCHOR



STEEL POST & POST FOUNDATION



BASE PLATE



TYPE 1 - POST FOUNDATION

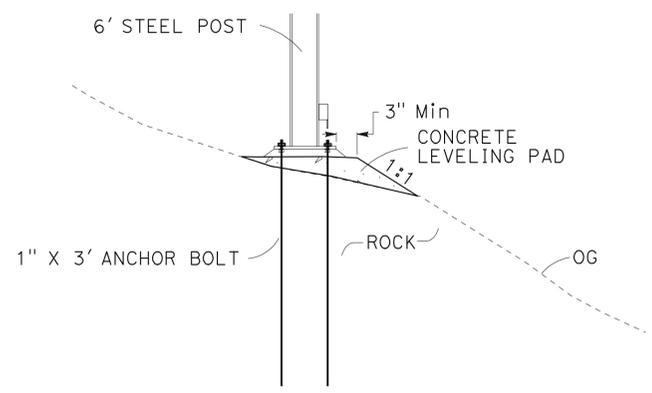
FOUNDATION IN SOIL AND/OR
FOUNDATION IN SOIL OVER BEDROCK

STEEL POST ANCHOR FOUNDATION NORTH SEGMENT

#	TYPE
N1	TYPE 1
N2	TYPE 1
N3	TYPE 1
N4	TYPE 2
N5	TYPE 1
N6	TYPE 2
N7	TYPE 2
N8	TYPE 2
N9	TYPE 1
N10	TYPE 1
N11	TYPE 1
N12	TYPE 1
N13	TYPE 1

STEEL POST ANCHOR FOUNDATION SOUTH SEGMENT

#	TYPE
S1	TYPE 1
S2	TYPE 1
S3	TYPE 1
S4	TYPE 1
S5	TYPE 1
S6	TYPE 1
S7	TYPE 1
S8	TYPE 1
S9	TYPE 1
S10	TYPE 1
S11	TYPE 1
S12	TYPE 1



TYPE 2 - POST FOUNDATION

FOUNDATION IN ROCK

CONSTRUCTION DETAILS

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DISTRICT 3
 DIVISION OF MAINTENANCE
 FUNCTIONAL SUPERVISOR
 RONALD S. SYKES
 B. WEBSTER
 RONALD S. SYKES
 REVISIONS
 REVISION BY DATE
 REVISION BY DATE

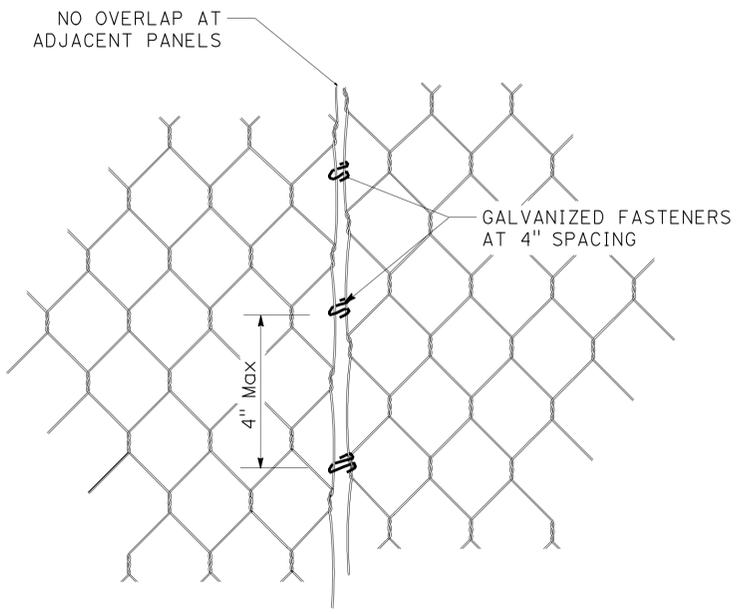
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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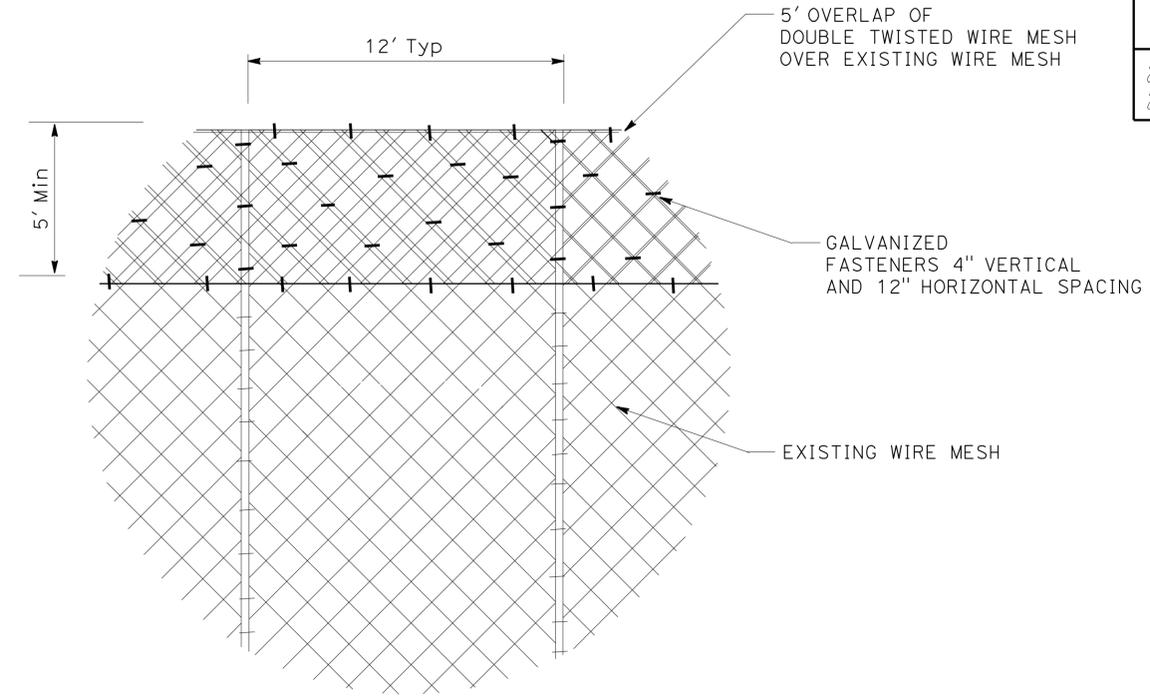
<i>Ronald S. Sykes</i>		2-16-12
REGISTERED CIVIL ENGINEER	DATE	
2-27-12		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER
RONALD S. SYKES
No. C35526
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

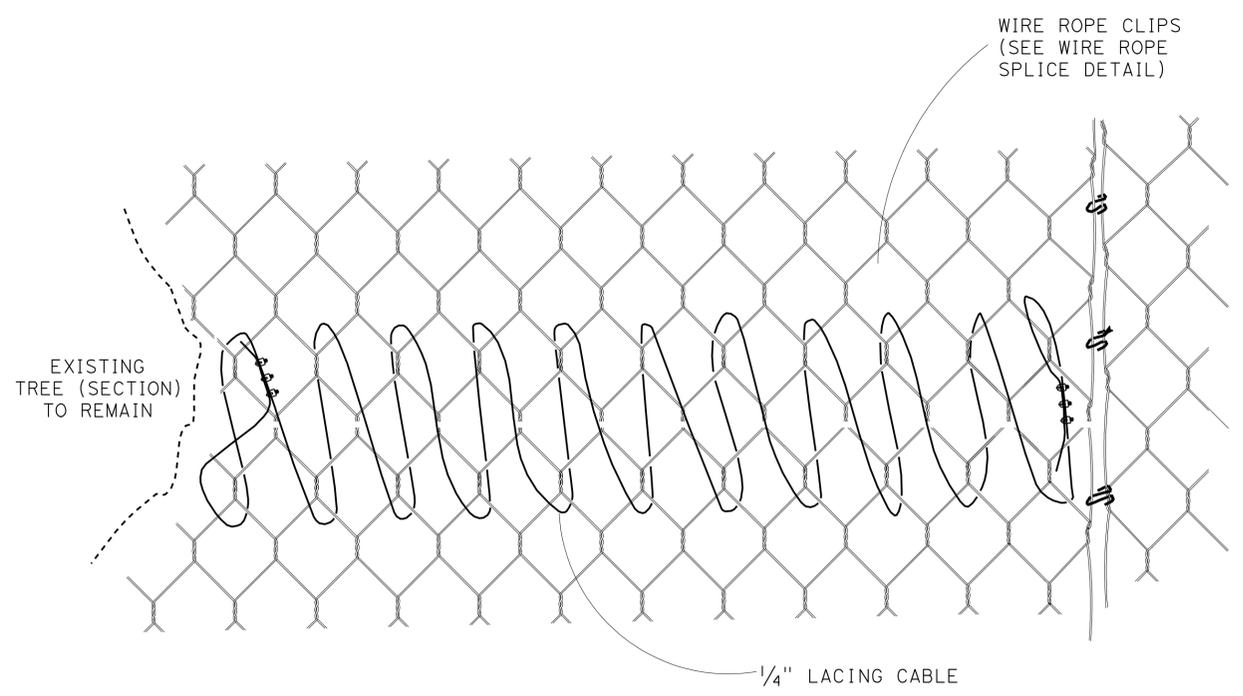
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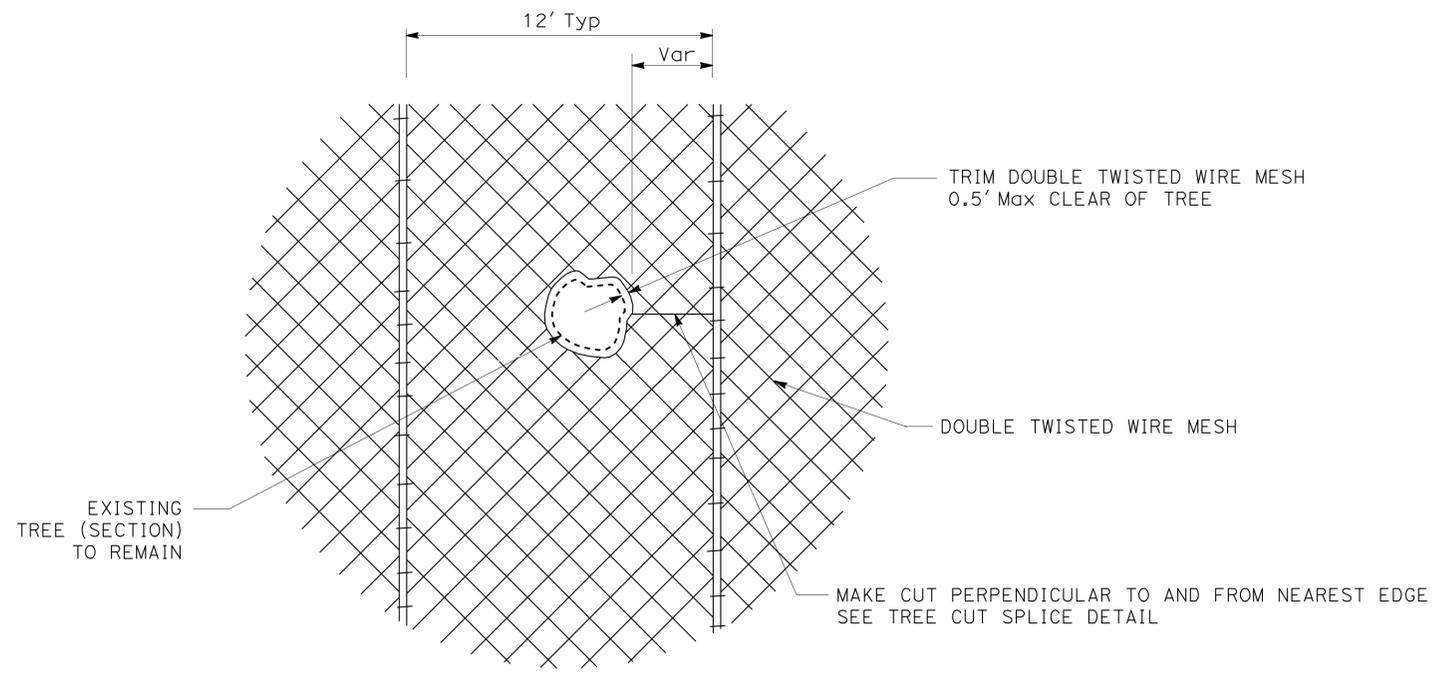
ADJACENT PANEL CONNECTION



CONNECTION OF DOUBLE TWISTED WIRE MESH TO EXISTING WIRE MESH



TREE CUT SPLICE



DOUBLE TWISTED WIRE MESH PLACEMENT AROUND TREE TO REMAIN

CONSTRUCTION DETAILS

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DISTRICT 3 DIVISION OF MAINTENANCE
 B. WEBSTER
 RONALD S. SYKES
 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 DIVISION OF MAINTENANCE
 DISTRICT 3
 FUNCTIONAL SUPERVISOR: RONALD S. SYKES
 CALCULATED/DESIGNED BY: CHECKED BY:
 B. WEBSTER
 REVISED BY: DATE REVISIONS:
 RONALD S. SYKES

NOTES:

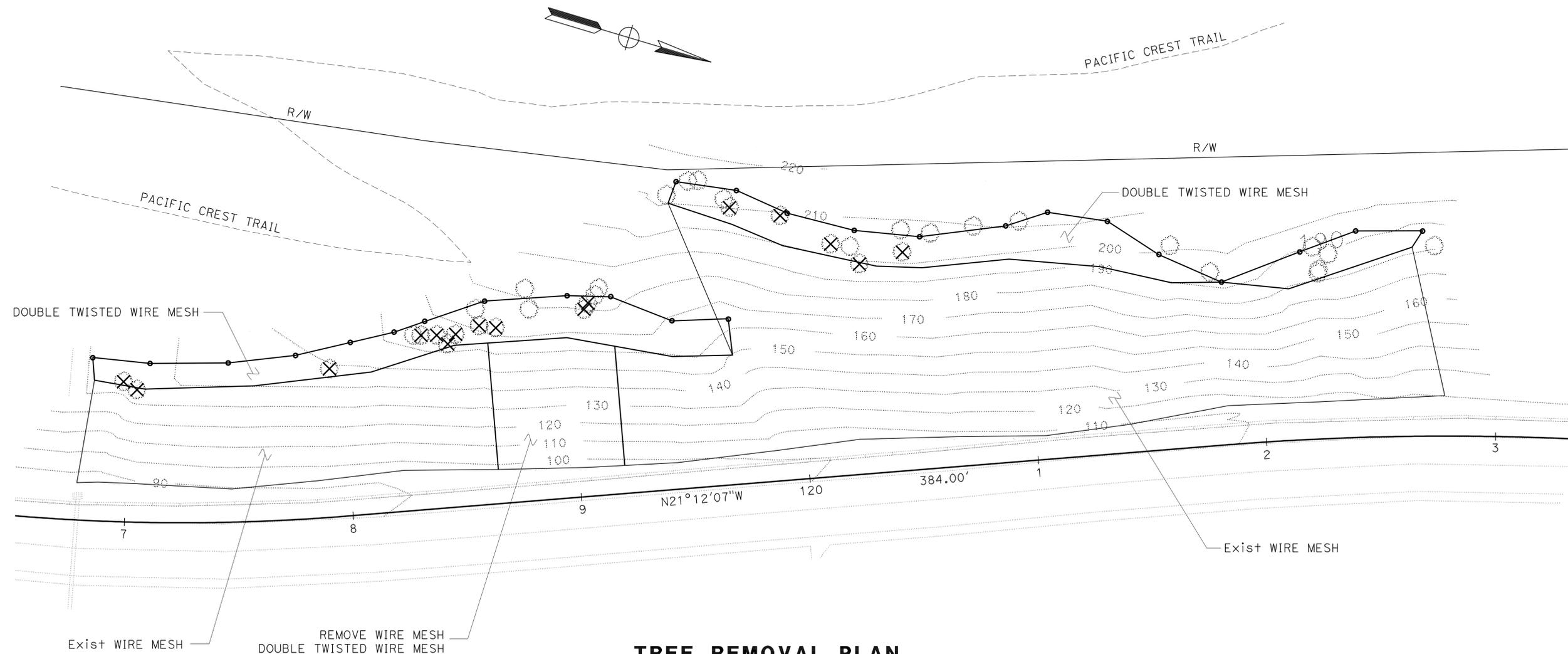
1. SEE SUMMARY OF QUANTITIES FOR ADDITIONAL TREE REMOVAL INFORMATION.

LEGEND:

- STEEL POST ANCHOR FOUNDATION
- EXIST TREE (TO REMAIN)
- ⊗ REMOVE TREE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sie	49	31.0/31.3	9	15

REGISTERED CIVIL ENGINEER: *Ronald S. Sykes* DATE: 2-16-12
 PLANS APPROVAL DATE: 2-27-12
 No. C35526 Exp. 9-30-13
 CIVIL
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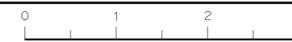


TREE REMOVAL PLAN

CONSTRUCTION DETAILS

NO SCALE

C-5



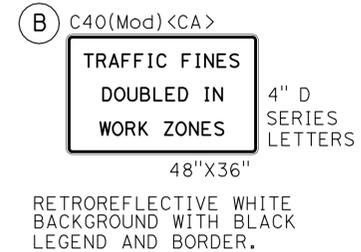
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	2
(B)		C40(Mod)	48" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" x 6"	2
(C)	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	2

LEGEND

- ┆ SIGN - SINGLE POST
- <CA> CALIFORNIA SIGN CODE

SIGN DETAILS



NOTES:

1. POST DIMENSIONS ARE NOMINAL.
2. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

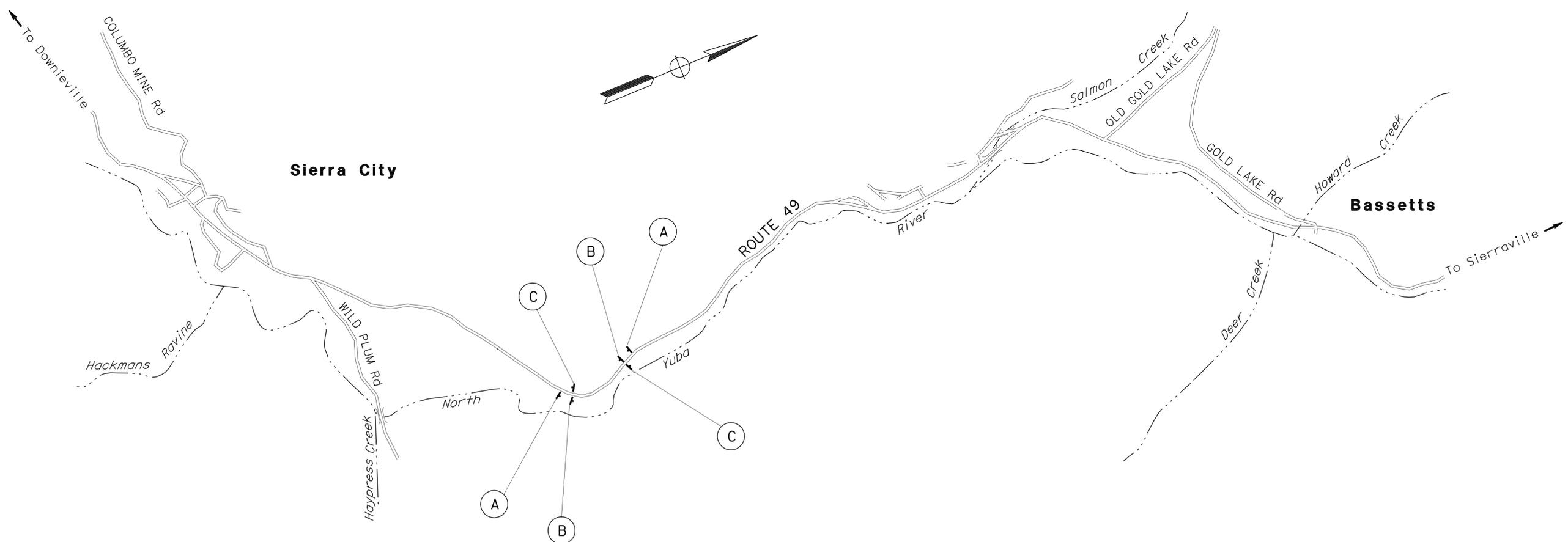
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DISTRICT 3
 DIVISION OF MAINTENANCE

FUNCTIONAL SUPERVISOR
 RONALD S. SYKES

CALCULATED/DESIGNED BY
 CHECKED BY

N. BEACH
 RONALD S. SYKES

REVISED BY
 DATE REVISED



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sie	49	31.0/31.3	11	15

Ronald S. Sykes
 REGISTERED CIVIL ENGINEER DATE 2-16-12
 2-27-12
 PLANS APPROVAL DATE

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ELEVATED WIRE MESH DRAPERY SYSTEM AND EXCAVATION

LOCATION/ DESCRIPTION	ROADWAY EXCAVATION	DOUBLE TWISTED WIRE MESH	STEEL POST	REMOVE WIRE MESH	REMOVE EXISTING SUPPORT CABLES
	CY	SQFT	EA	SQFT	LF
Sta "A" 116+84 71' Lt POST No. S12			1		
Sta "A" 117+10 69' Lt POST No. S11			1		
Sta "A" 117+47 69' Lt POST No. S10			1		
Sta "A" 117+79 71' Lt POST No. S9			1		
Sta "A" 118+05 75' Lt POST No. S8			1		
Sta "A" 118+24 78' Lt POST No. S7			1		
Sta "A" 118+38 82' Lt POST No. S6			1		
Sta "A" 118+65 89' Lt POST No. S5			1		
Sta "A" 119+01 88' Lt POST No. S4			1		
Sta "A" 119+20 86' Lt POST No. S3			1		
Sta "A" 119+46 73' Lt POST No. S2			1		
Sta "A" 119+70 72' Lt POST No. S1			1		
Sta "A" 119+52 134' Lt POST No. N13			1		
Sta "A" 119+78 128' Lt POST No. N12			1		
Sta "A" 119+99 116' Lt POST No. N11			1		
Sta "A" 120+28 106' Lt POST No. N10			1		
Sta "A" 120+56 101' Lt POST No. N9			1		
Sta "A" 120+94 103' Lt POST No. N8			1		
Sta "A" 121+13 107' Lt POST No. N7			1		
Sta "A" 121+38 101' Lt POST No. N6			1		
Sta "A" 121+60 85' Lt POST No. N5			1		
Sta "A" 121+83 71' Lt POST No. N4			1		
Sta "A" 122+19 82' Lt POST No. N3			1		
Sta "A" 122+42 90' Lt POST No. N2			1		
Sta "A" 122+69 89' Lt POST No. N1			1		
Sta "A" 116+84 TO 122+69		23,559			3,013
Sta "A" 118+65 TO 119+20				4,819	
Sta "A" 110+86 TO 123+75	201				
TOTAL	201	23,559	25	4,819	3,013

TREE REMOVAL

LOCATION/ DESCRIPTION			REMOVE TREE
	TYPE	DIAMETER	EA
Sta "A" 116+98 62' Lt	CEDAR	12"	1
Sta "A" 117+04 56' Lt	OAK	12"	1
Sta "A" 117+95 65' Lt	PINE	12"	1
Sta "A" 118+36 76' Lt	FIR	12"	1
Sta "A" 118+43 76' Lt	FIR	8"	1
Sta "A" 118+47 71' Lt	FIR	24"	1
Sta "A" 118+51 75' Lt	FIR	8"	1
Sta "A" 118+62 78' Lt	FIR	12"	1
Sta "A" 118+69 77' Lt	FIR	20"	1
Sta "A" 119+08 81' Lt	FIR	24"	1
Sta "A" 119+10 84' Lt	FIR	12"	1
Sta "A" 119+75 121' Lt	PINE	12"	1
Sta "A" 119+96 115' Lt	FIR	12"	1
Sta "A" 120+17 101' Lt	CEDAR	18"	1
Sta "A" 120+29 91' Lt	FIR	24"	1
Sta "A" 120+48 95' Lt	CEDAR	12"	1
TOTAL			16

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DIVISION OF MAINTENANCE DISTRICT 3
 FUNCTIONAL SUPERVISOR: RONALD S. SYKES
 CALCULATED/DESIGNED BY: CHECKED BY:
 N. BEACH: RONALD S. SYKES
 REVISED BY: DATE REVISED:



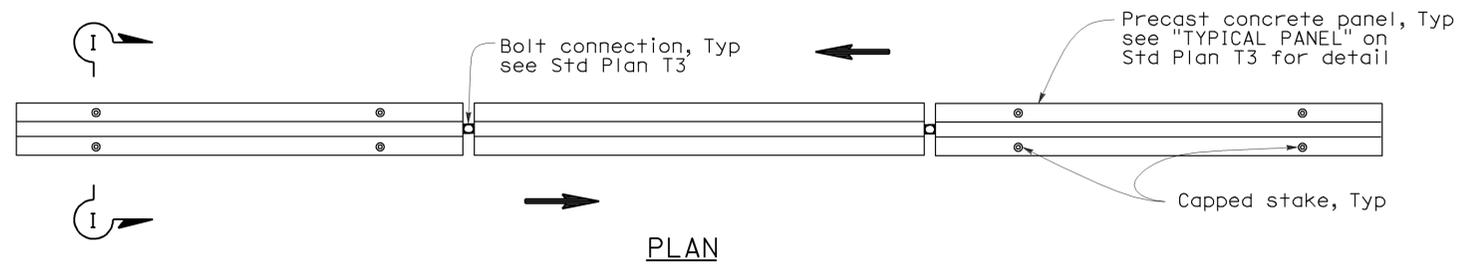
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sie	49	31.0/31.3	12	15

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

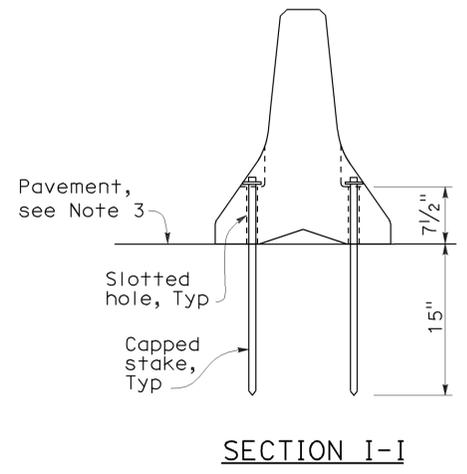
May 20, 2011
PLANS APPROVAL DATE

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To accompany plans dated 2-27-12

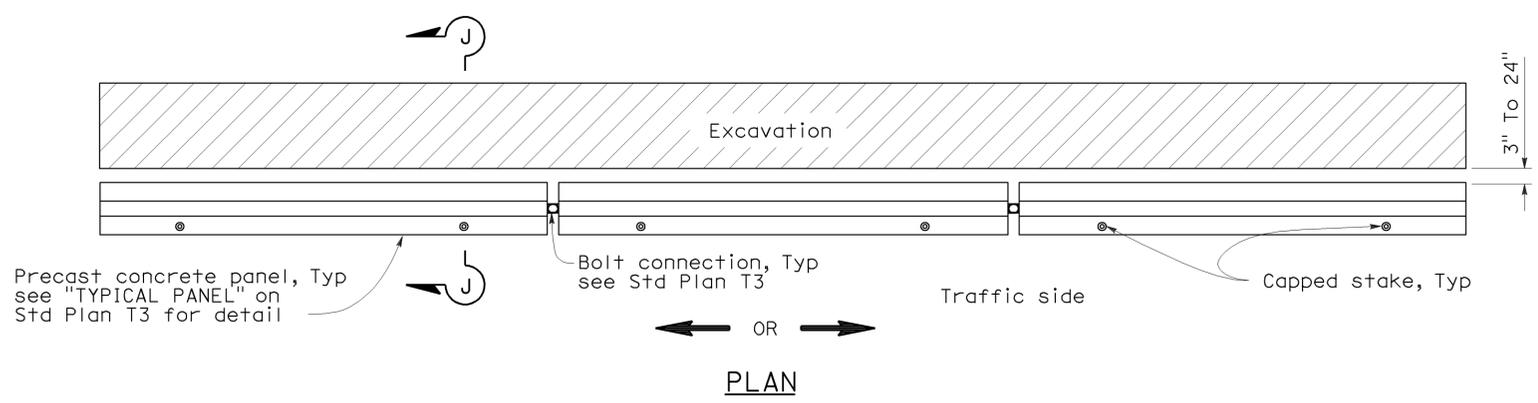


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

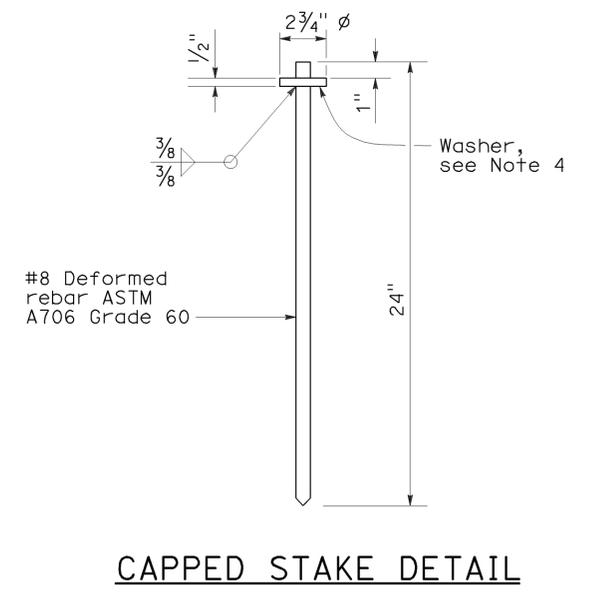
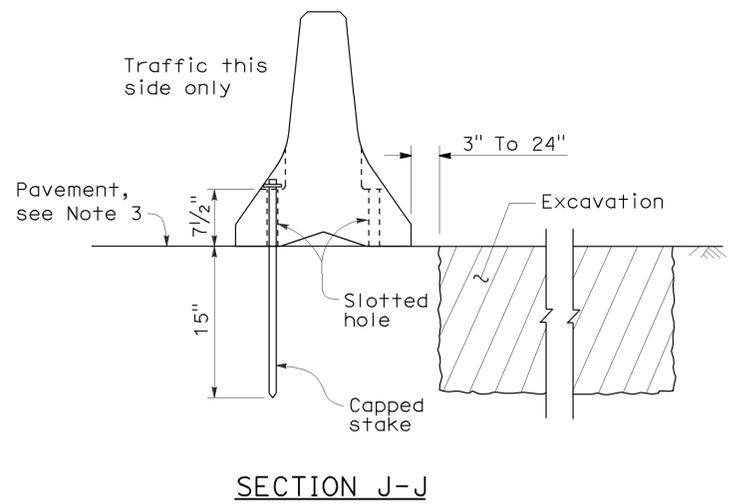


NOTES:

1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by \rightarrow .



RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION
See Note 2



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY RAILING
(TYPE K)**

NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T3A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sie	49	31.0/31.3	13	15

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

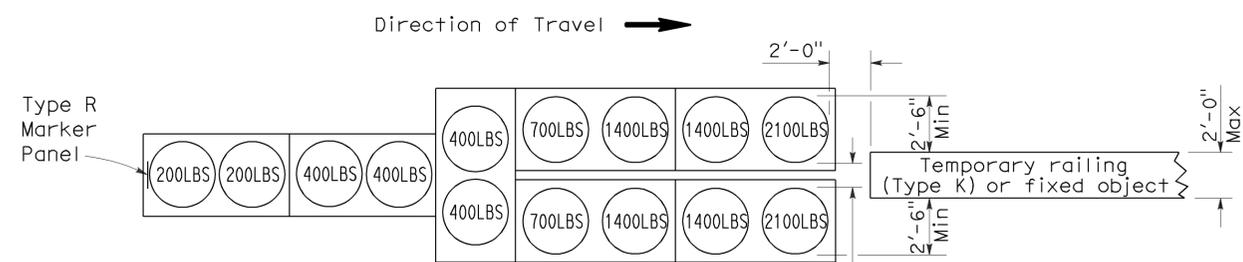
June 6, 2008
PLANS APPROVAL DATE

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

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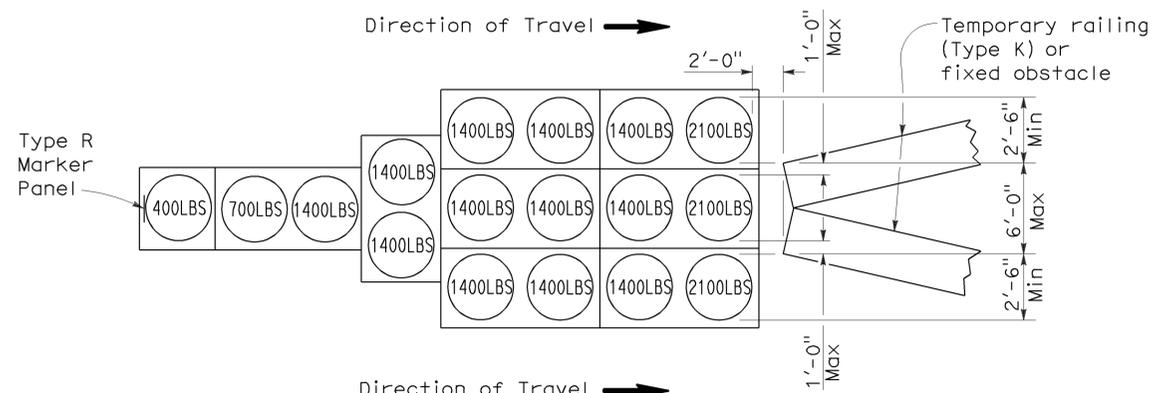
To accompany plans dated 2-27-12

2006 REVISED STANDARD PLAN RSP T1A



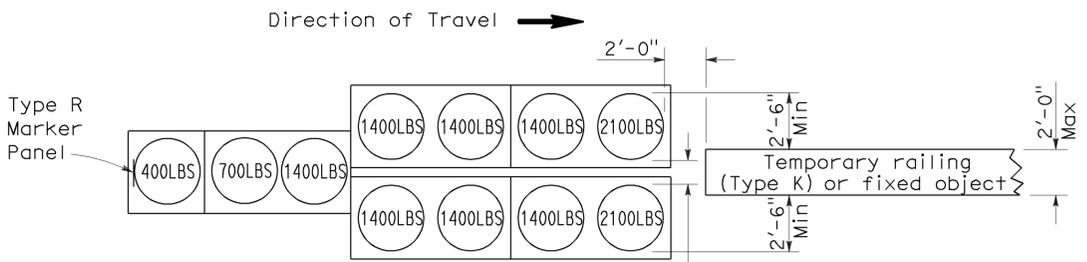
ARRAY 'TU14'

Approach speed 45 mph or more



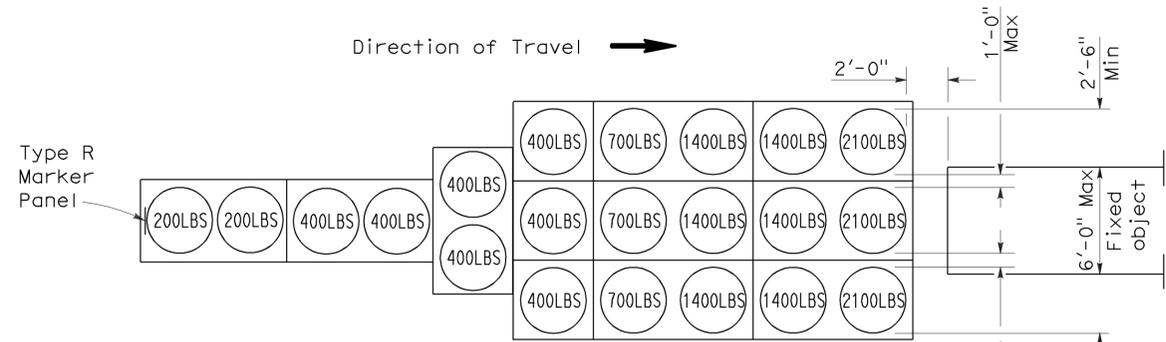
ARRAY 'TU17'

Approach speed less than 45 mph



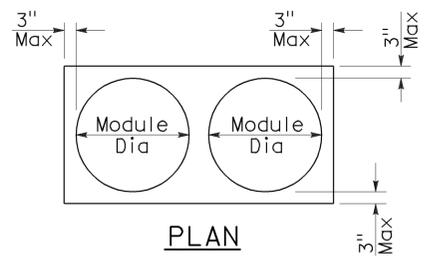
ARRAY 'TU11'

Approach speed less than 45 mph

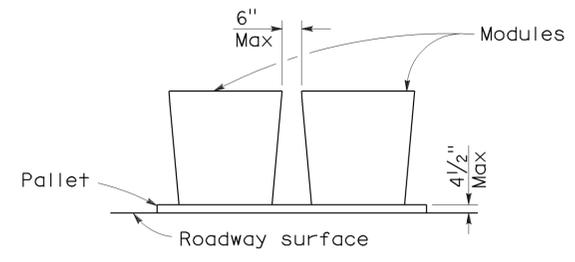


ARRAY 'TU21'

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sie	49	31.0/31.3	14	15

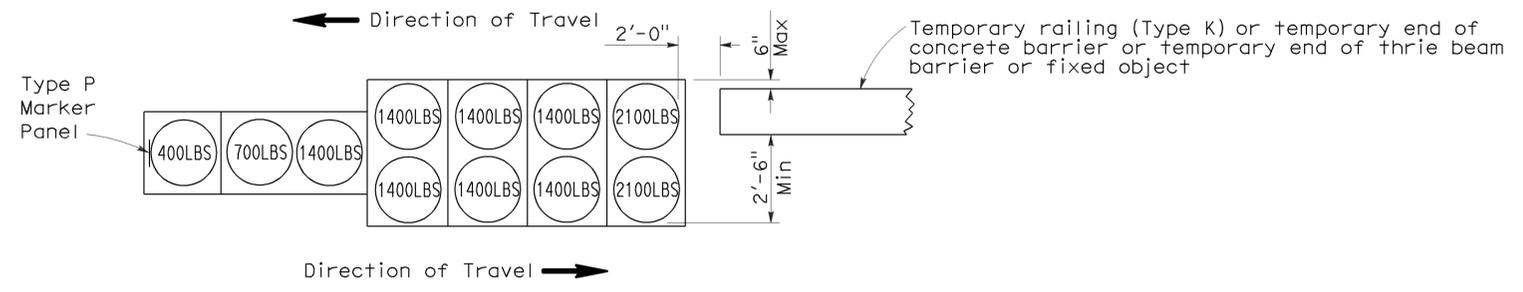
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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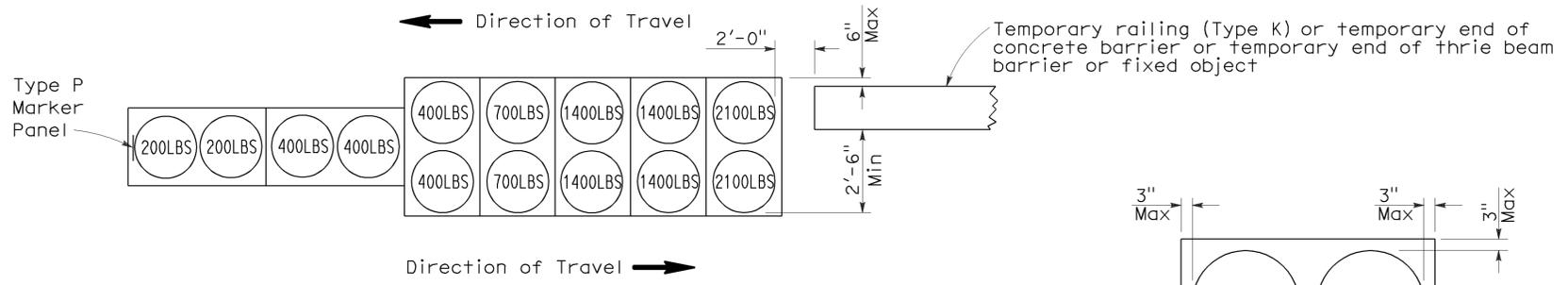


To accompany plans dated 2-27-12



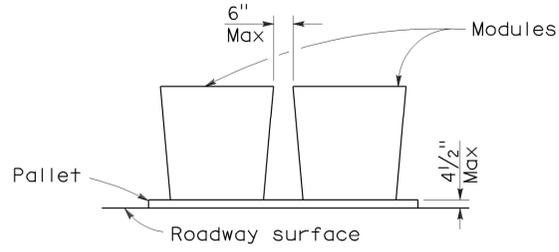
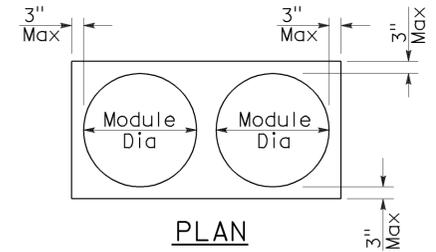
ARRAY 'TB11'

Approach speed less than 45 mph



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

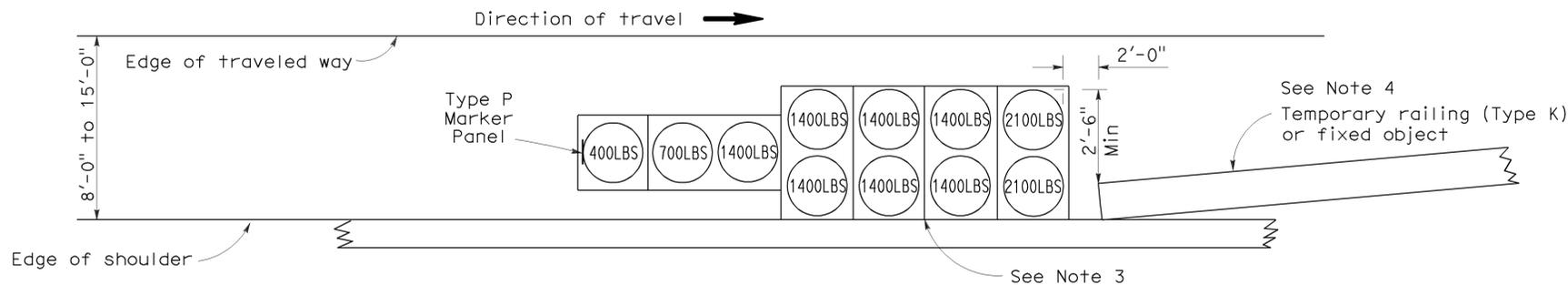
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sie	49	31.0/31.3	15	15

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

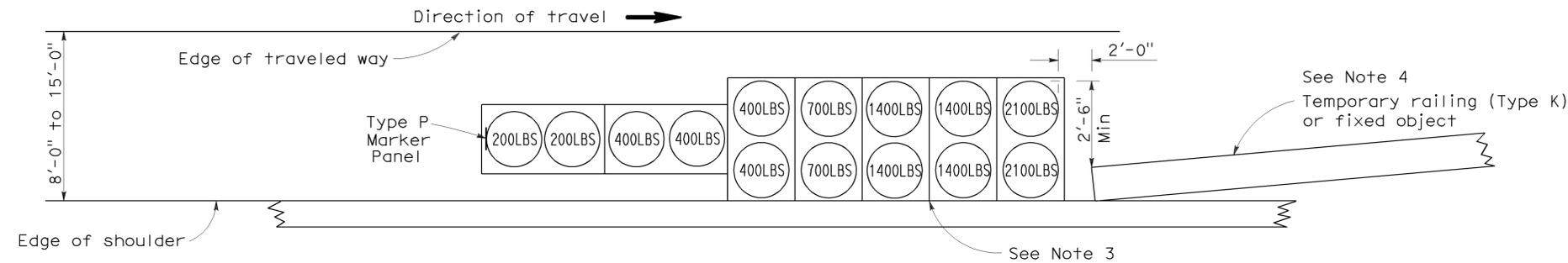
June 6, 2008
PLANS APPROVAL DATE

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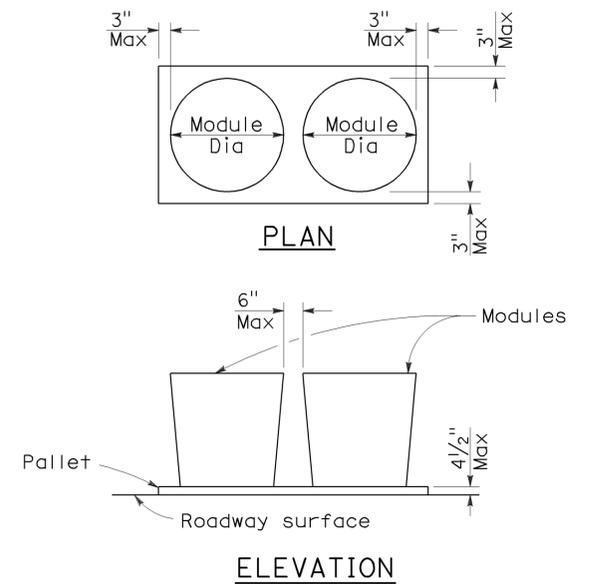
To accompany plans dated 2-27-12



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



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



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

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

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