

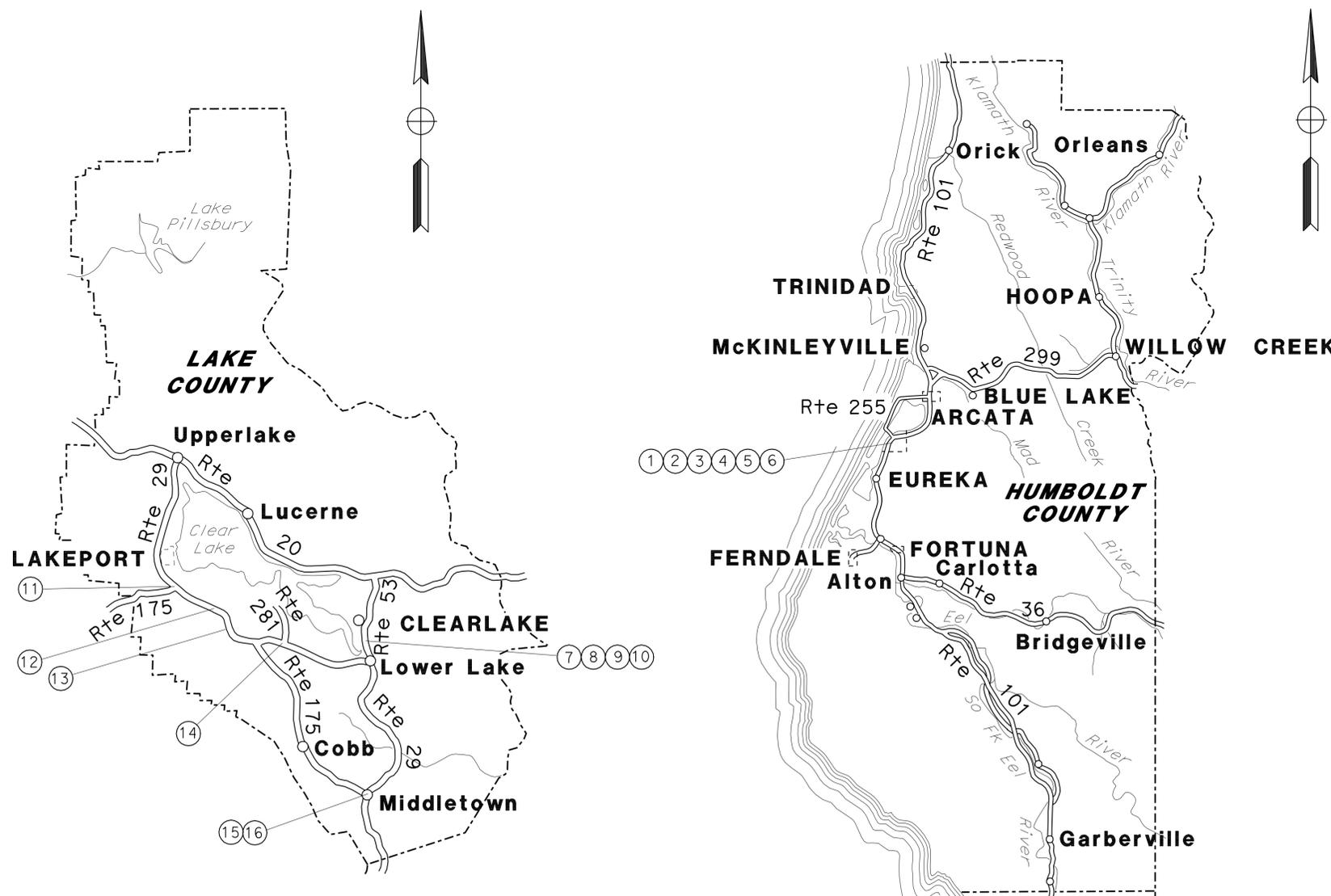
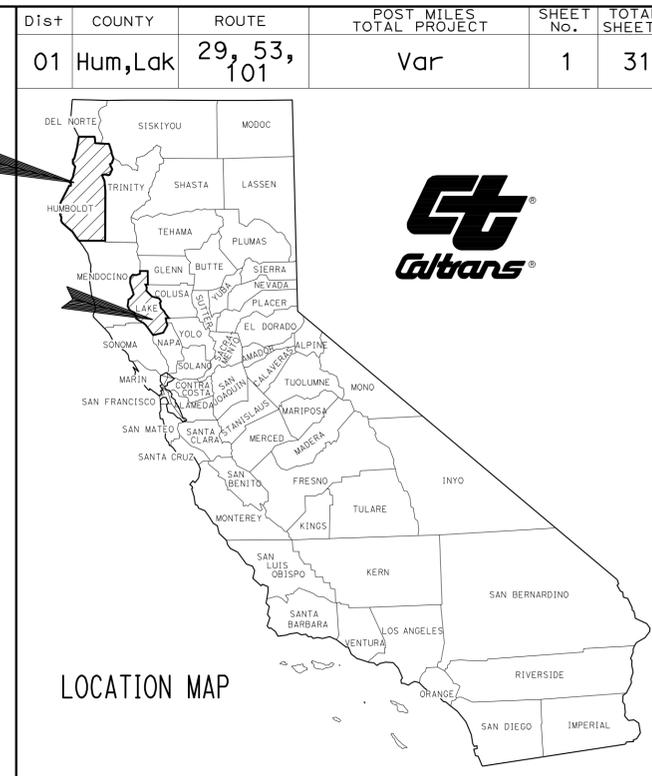
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-17	ELECTRICAL PLANS
18-31	REVISED AND NEW STANDARD PLANS

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 HUMBOLDT AND LAKE COUNTIES
AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATIONS OF CONSTRUCTION				
LOCATION No.	COUNTY	ROUTE	PM	LOCATION
1	Hum	101	78.44	4th AND E Street
2	Hum	101	78.50	4th AND F Street
3	Hum	101	78.56	4th AND G Street
4	Hum	101	78.57	4th AND H Street
5	Hum	101	78.58	4th AND I Street
6	Hum	101	78.73	4th AND J Street
7	Lak	53	2.96	Route 53 AND 40th Street
8	Lak	53	1.99	Route 53 AND 18th Avenue
9	Lak	53	1.47	Route 53 AND DAM Road
10	Lak	29	20.31	Route 29/53 JUNCTION
11	Lak	29	R40.14	Route 29/175 JUNCTION
12	Lak	29	38.6	Route 29 AND Highland Springs Road
13	Lak	29	R34.74	Route 29 AND Live Oak Drive
14	Lak	29	27.89	Route 29/281 JUNCTION
15	Lak	29	5.98	Route 29 AND Wardlaw Street
16	Lak	29	5.81	Route 29/175 JUNCTION

PROJECT MANAGER
Royal B. McCarthy

DESIGN ENGINEER
Royal B. McCarthy

PROJECT ENGINEER DATE 2/16/12
 REGISTERED CIVIL ENGINEER
March 12, 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.

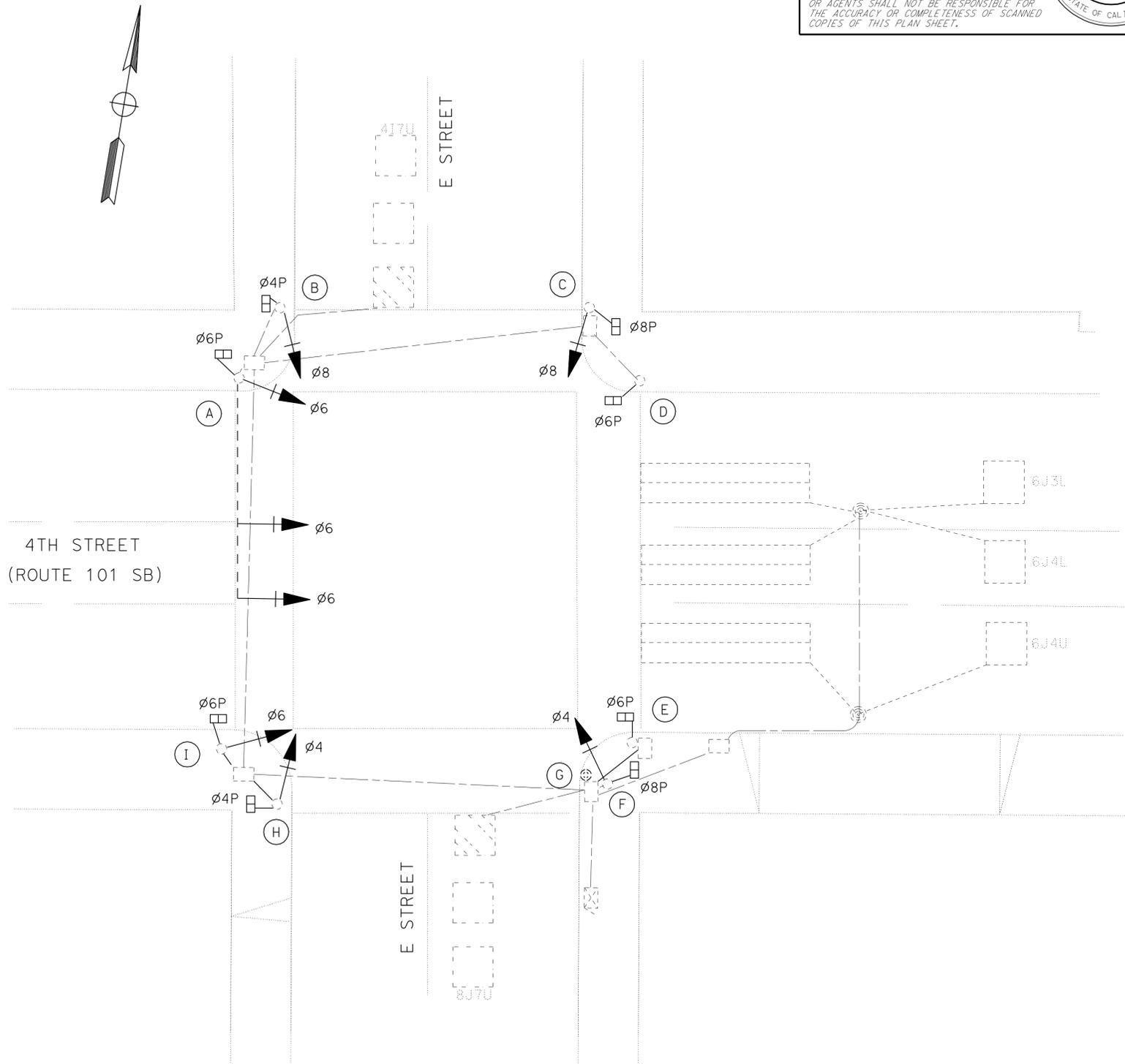
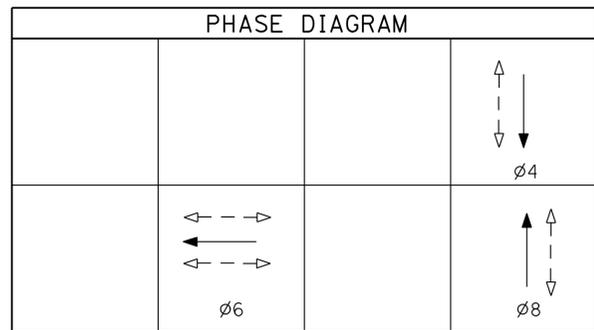
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

- NOTES:**
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 - REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PUSH BUTTONS AND PLACE AT CORRECT HEIGHT.
 - REMOVE STANDARD (G). INSTALL PED PUSH BUTTON ON STANDARD (F).
 - RS** EXISTING VEHICLE SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS (SIGNAL BACKPLATE, MODULES, AND MOUNTING HARDWARE). ADD NEW VEHICLE SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS (SIGNAL BACKPLATE, MODULES, AND MOUNTING HARDWARE).

POLE AND EQUIPMENT SCHEDULE												
Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON			HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE	ARROW		
(A)	23-4-BD 35' SMA	6	12"	MAS	6	A	SP-1-T	4	B	←		
(B)	1-A	8	12"	TV-1-T	4	A	SP-1-T	6	B	→		
(C)	1-A	8	12"	TV-1-T	8	A	SP-1-T	6	B	←		
(D)	1-A 7'-0"	--	---	---	6	A	TP-1-T	8	B	→		
(E)	1-A 7'-0"	--	---	---	6	A	TP-1-T	8	B	←		
(F)	1-A	4	12"	TV-1-T	8	A	SP-1-T	6	B	→		
(G)	PPB POST											SEE NOTE 5
(H)	1-A	4	12"	TV-1-T	4	A	SP-1-T	6	B	←		
(I)	1-A	6	12"	TV-1-T	6	A	SP-1-T	4	B	→		

TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL



**4th AND E STREET
MODIFY SIGNAL AND LIGHTING**

APPROVED FOR ELECTRICAL WORK ONLY

NO SCALE

E-1

NOTES:

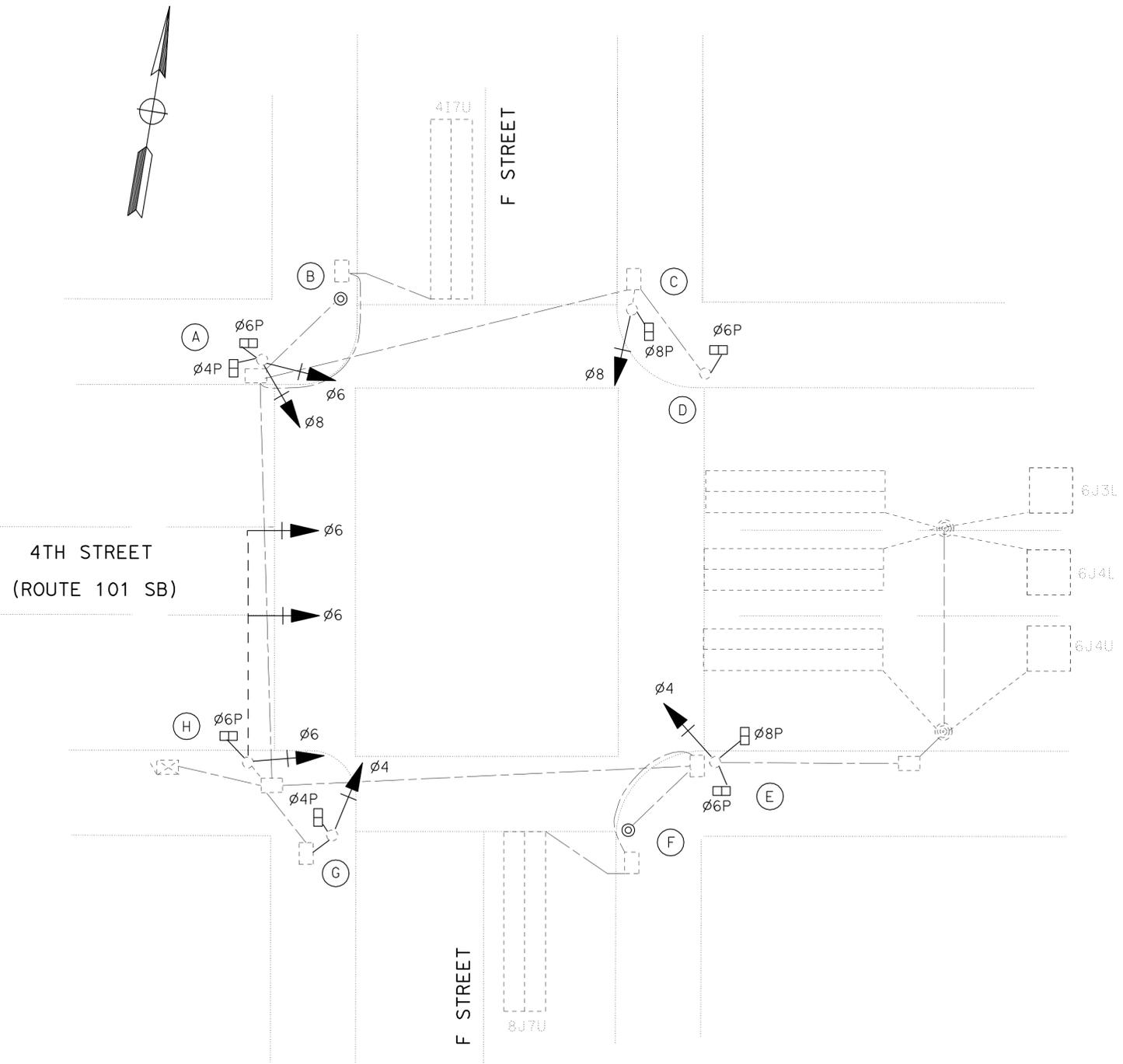
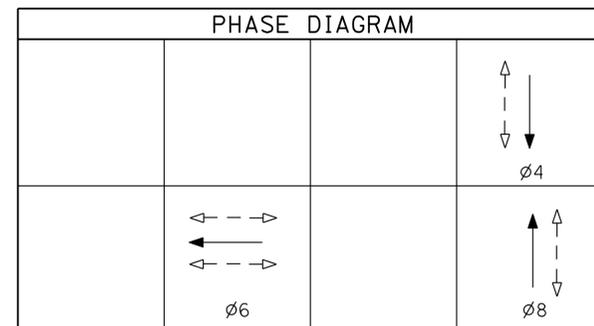
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POLE AND EQUIPMENT SCHEDULE

Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON			HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE	ARROW		
A	1-A	6	12"	TV-2-T	4	A	SP-2-T	4	B	←		
		8	12"		6	A						
B	PPB POST	--	--	--	--	--	--	6	B	→		
C	1-A	8	12"	TV-1-T	8	A	SP-1-T	6	B	←		
D	1-A 7'-0"	--	--	--	6	A	TP-1-T	8	B	→		
E	1-A	4	12"	TV-1-T	6	A	SP-2-T	8	B	←		
F	PPB POST	--	--	--	--	--	--	6	B	→		
G	1-A	4	12"	TV-1-T	4	A	SP-1-T	6	B	←		
H	23-3-80 35' SMA	6	12"	MAS	6	A	SP-1-T	4	B	→		SEE NOTE 5
		6	12"	MAS								
		6	12"	SV-1-T								

TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL

PHASE DIAGRAM



**4th AND F STREET
MODIFY SIGNAL AND LIGHTING**

NO SCALE

E-2

APPROVED FOR ELECTRICAL WORK ONLY

NOTES:

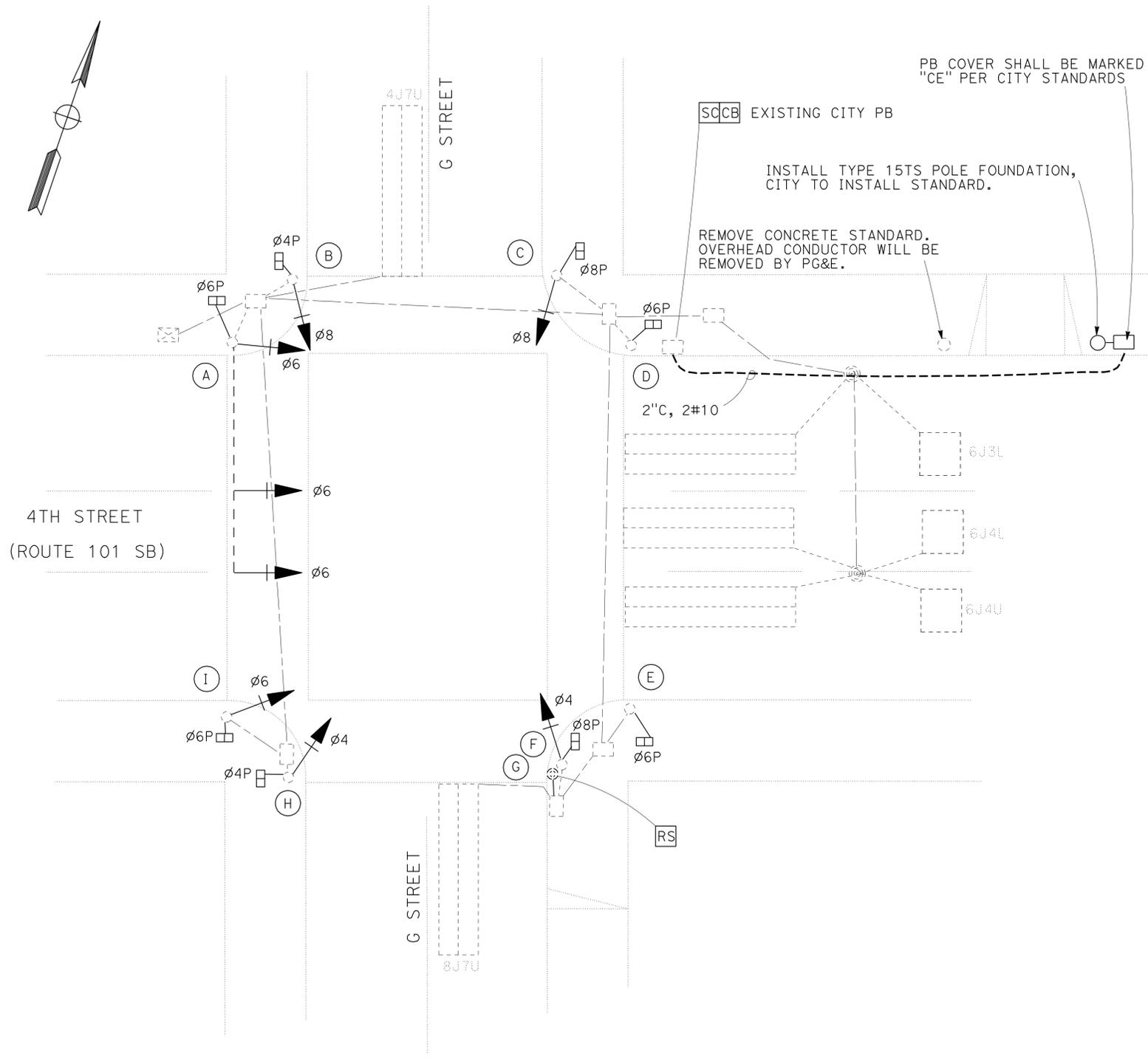
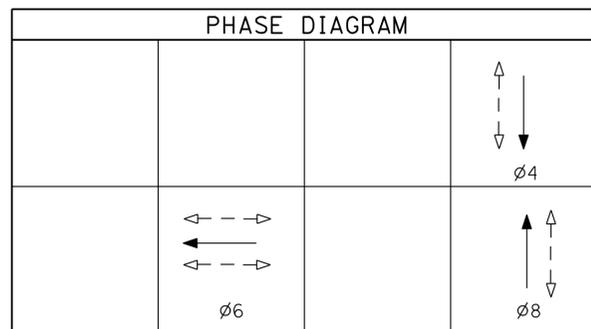
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POLE AND EQUIPMENT SCHEDULE

Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON			HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE	ARROW		
(A)	23-3-80 35' SMA	6	12"	MAS	6	A	SP-1-T	4	B	←		
		6	12"	MAS								
		6	12"	SV-1-T								
(B)	1-A	8	12"	TV-1-T	4	A	SP-1-T	6	B	→		
(C)	1-A	8	12"	TV-1-T	8	A	SP-1-T	6	B	←		
(D)	1-A 7'-0"	--	--	--	6	A	TP-1-T	8	B	→		
(E)	1-A 7'-0"	--	--	--	6	A	TP-1-T	8	B	←		
(F)	1-A	4	12"	TV-1-T	8	A	SP-1-T	6	B	→		
(G)	PBB POST											SEE NOTE 5
(H)	1-A	4	12"	TV-1-T	4	A	SP-1-T	6	B	←		
(I)	1-A	6	12"	TV-1-T	6	A	SP-1-T	4	B	→		

TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL

PHASE DIAGRAM



**4th AND G STREET
MODIFY SIGNAL AND LIGHTING**

NO SCALE

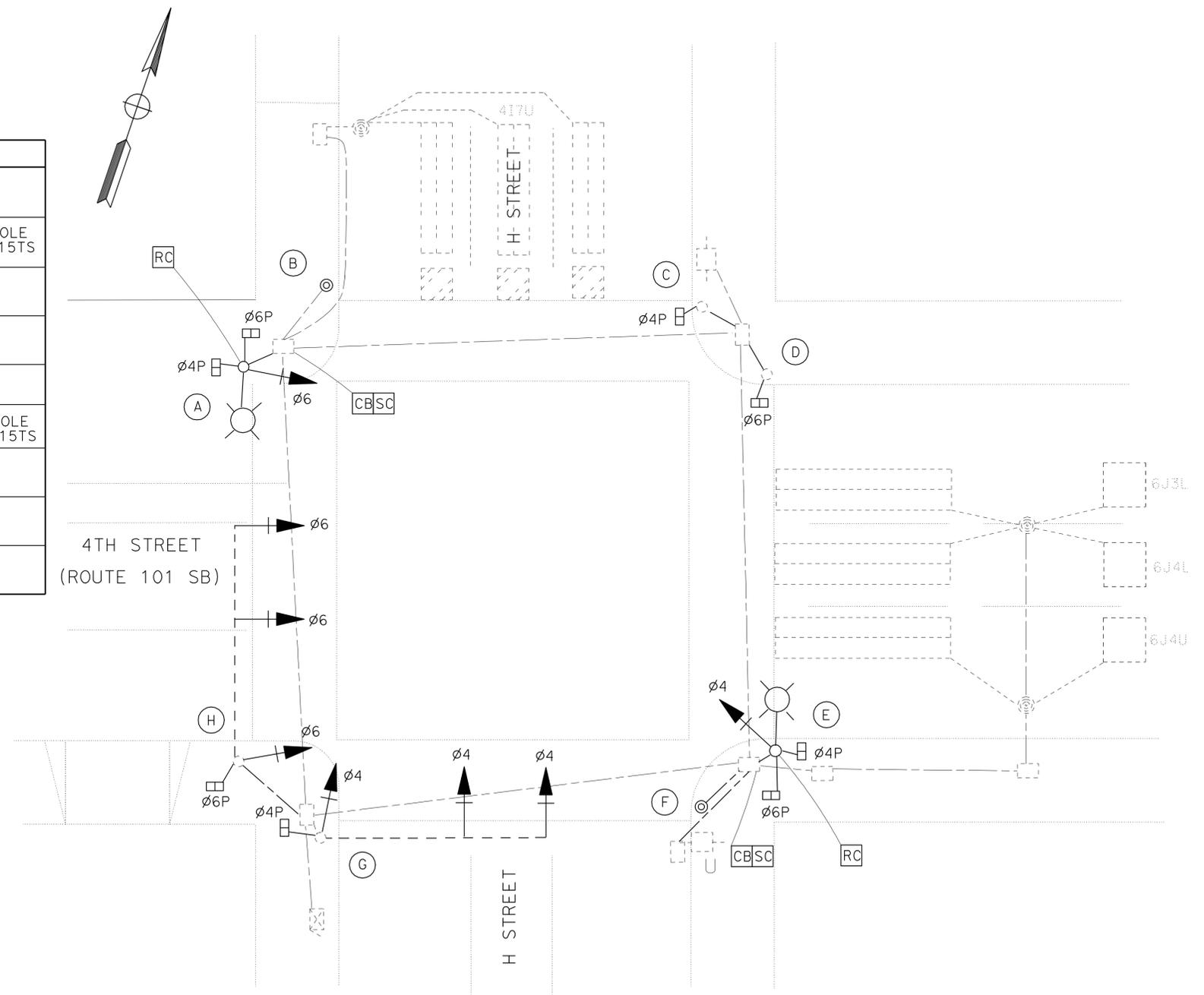
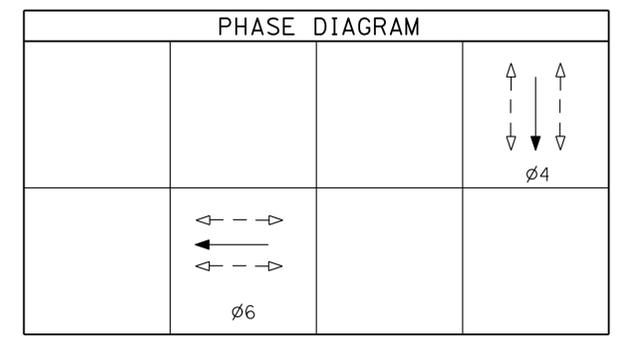
E-3

APPROVED FOR ELECTRICAL WORK ONLY

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POLE AND EQUIPMENT SCHEDULE												
Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON			HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE	ARROW		
(A)	15TS 8' LMA	6	12"	SV-1-T	4 6	A A	SP-2-T	4	B	←	200 W	* REMOVE CONCRETE POLE INSTALL NEW TYPE 15TS
(B)	PPB POST	--	--	--	--	--	--	6	B	→		
(C)	1-A 7'-0"	--	--	--	4	A	TP-1-T	6	B	←		
(D)	1-A 7'-0"	--	--	--	6	A	TP-1-T	4	B	→		
(E)	15TS 8' LMA	4	12"	SV-1-T	4 6	A A	SP-2-T	4	B	←	200 W	* REMOVE CONCRETE POLE INSTALL NEW TYPE 15TS
(F)	PPB POST	--	--	--	--	--	--	6	B	→		
(G)	23-3-80 35' SMA	4 4 4	12" 12" 12"	MAS MAS SV-1-T	4	A	SP-1-T	6	B	←		
(H)	23-3-80 35' SMA	6 6 6	12" 12" 12"	MAS MAS SV-1-T	6	A	SP-1-T	4	B	→		SEE NOTE 5

TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL
 * OVERHEAD CONDUCTORS WILL BE REMOVED BY PG&E.



**4th AND H STREET
 MODIFY SIGNAL AND LIGHTING**

APPROVED FOR ELECTRICAL WORK ONLY

NO SCALE

E-4

REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	6	31

Brian T. Finck
 REGISTERED ELECTRICAL ENGINEER DATE 2/16/12
 3-12-12
 PLANS APPROVAL DATE

Brian T. Finck
 No. 17756
 Exp. 6-30-12
 ELECTRICAL

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

NOTES:

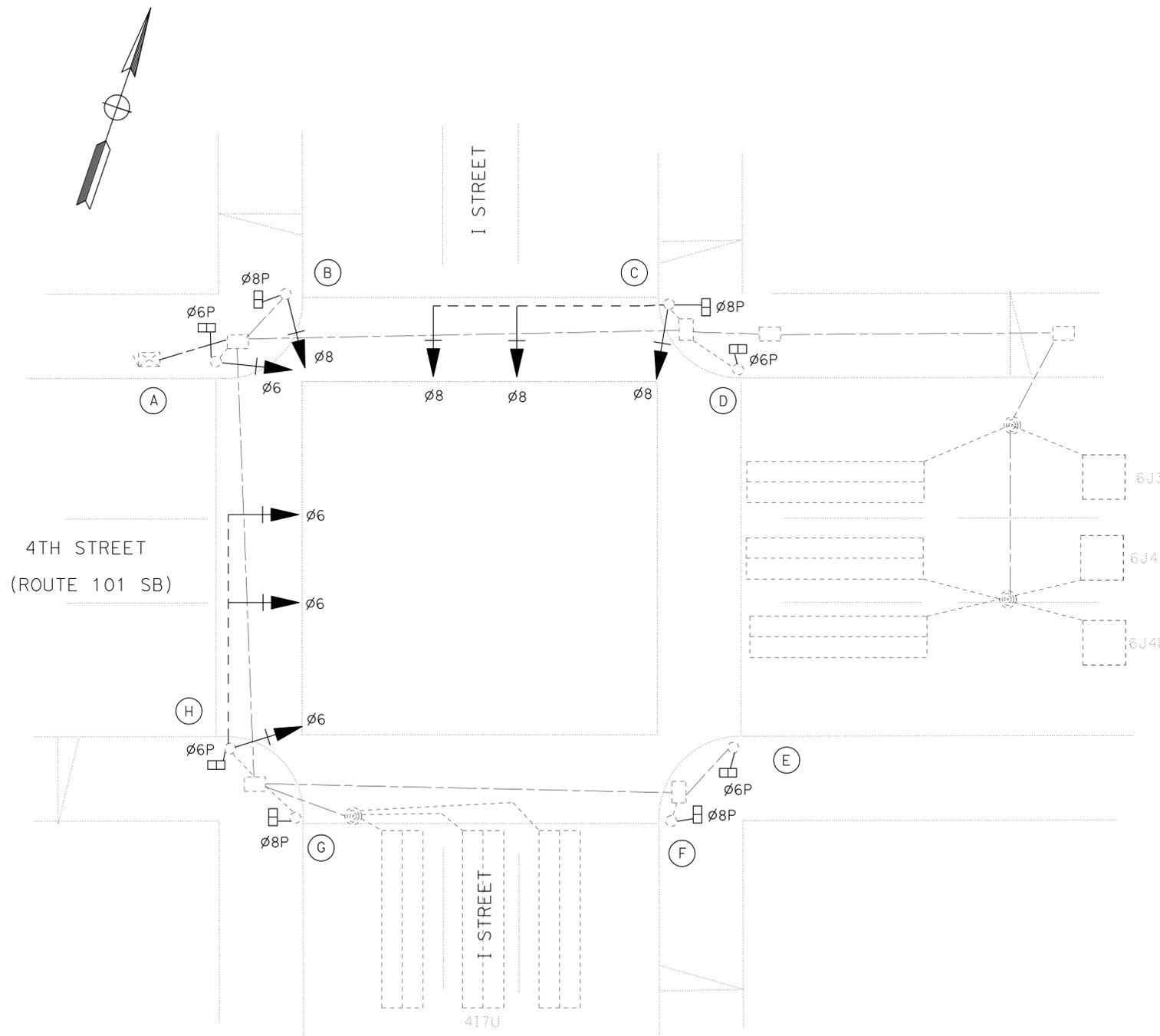
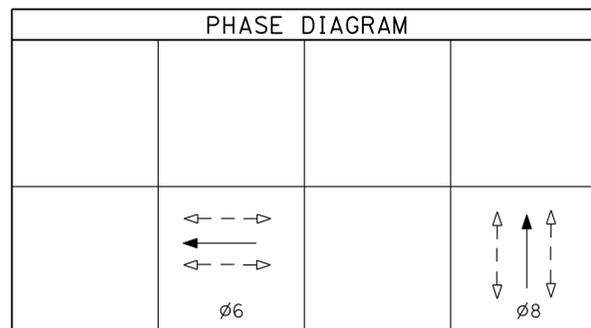
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POLE AND EQUIPMENT SCHEDULE

Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON			HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE	ARROW		
(A)	1-A	6	12"	TV-1-T	6	A	SP-1-T	8	B	←		
(B)	1-A	8	12"	TV-1-T	8	A	SP-1-T	6	B	→		
(C)	23-3-80 35' SMA	8	12"	MAS	8	A	SP-1-T	6	B	←		
		8	12"	MAS								
		8	12"	SV-1-T								
(D)	1-A 7'-0"	--	--	--	6	A	TP-1-T	8	B	→		
(E)	1-A 7'-0"	--	--	--	6	A	TP-1-T	8	B	←		
(F)	1-A 7'-0"	--	--	--	8	A	TP-1-T	6	B	→		
(G)	1-A 7'-0"	--	--	--	8	A	TP-1-T	6	B	←		
(H)	23-3-80 35' SMA	6	12"	MAS	6	A	SP-1-T	8	B	→		SEE NOTE 5
		6	12"	MAS								
		6	12"	SV-1-T								

TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL

PHASE DIAGRAM



**4th AND I STREET
 MODIFY SIGNAL AND LIGHTING**

APPROVED FOR ELECTRICAL WORK ONLY

NO SCALE

E-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	7	31

Brian T. Finck 2/16/12
REGISTERED ELECTRICAL ENGINEER DATE

3-12-12
PLANS APPROVAL DATE

Brian T. Finck
No. 17756
Exp. 6-30-12
ELECTRICAL

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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NOTES:

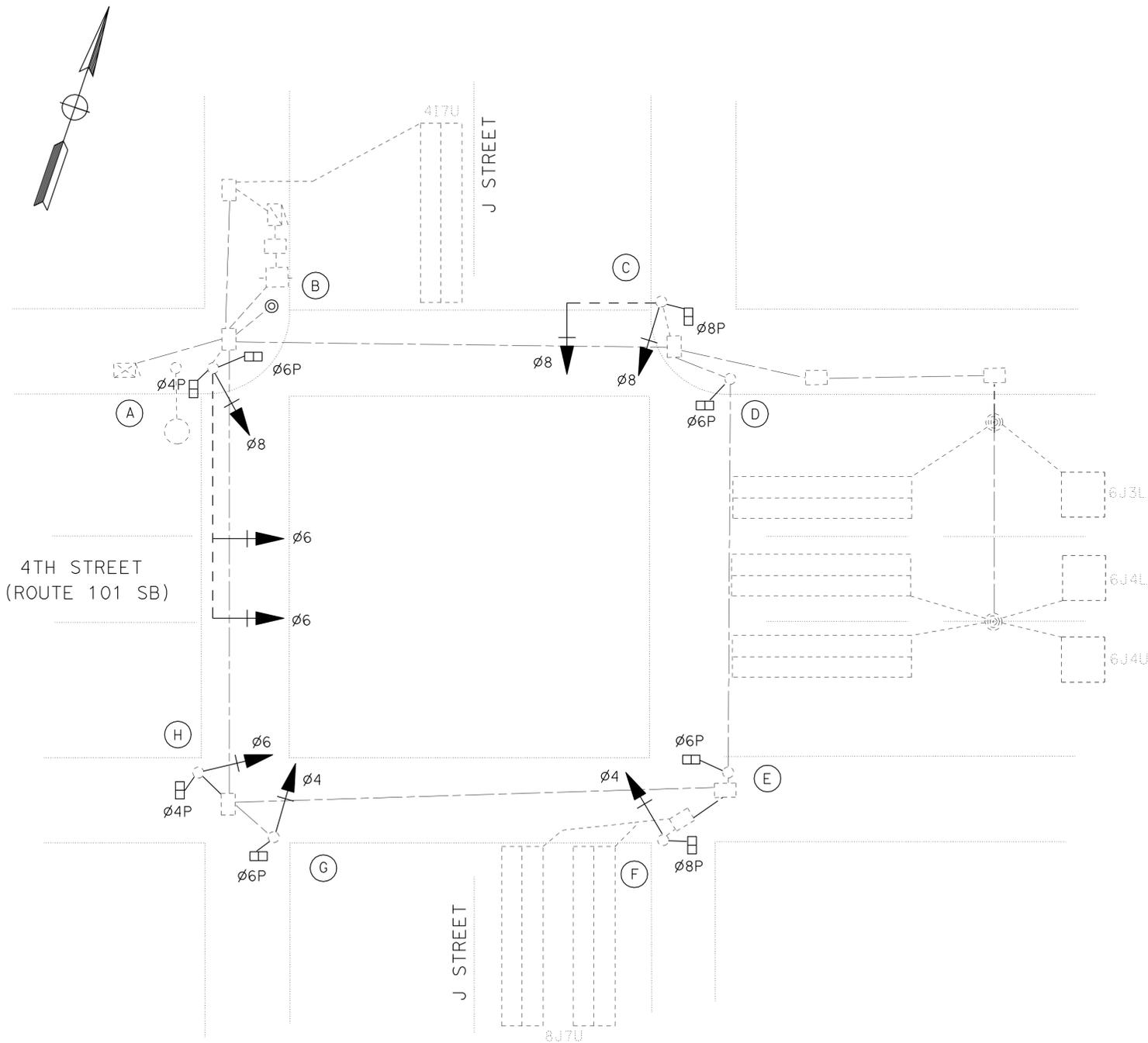
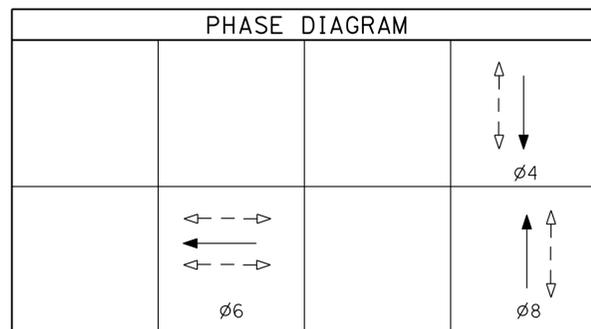
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- EXCEPT AS SHOWN, POLES AND EQUIPMENT ARE EXISTING, THE CONTRACTOR SHALL VERIFY MOUNTINGS IN THE FIELD PRIOR TO ORDERING.
- REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PUSH BUTTONS AND PLACE AT CORRECT HEIGHT.
- EXISTING VEHICLE SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS (SIGNAL BACKPLATE, MODULES, AND MOUNTING HARDWARE). ADD NEW VEHICLE SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS (SIGNAL BACKPLATE, MODULES, AND MOUNTING HARDWARE).

POLE AND EQUIPMENT SCHEDULE

Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON			HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE	ARROW		
A	23-3-80 35' SMA	6	12"	MAS	4	A	SP-2-T	4	B	←		
		6	12"	MAS	6	A						
		4	12"	SV-1-TB								
		8	12"									
B	PPB POST	--	--	--	--	--	6	B	→			
C	16-1-70 15' SMA	8	12"	MAS	8	A	SP-1-T	6	B	←		
		8	12"	SV-1-T								
D	1-A 7'-0"	--	--	--	6	A	TP-1-T	8	B	→		
E	1-A 7'-0"	--	--	--	6	A	TP-1-T	8	B	←		
F	1-A	4	12"	TV-1-T	4	A	SP-1-T	6	B	→		
G	1-A	4	12"	TV-1-T	6	A	SP-1-T	6	B	←		
H	1-A	6	12"	TV-1-T	4	A	SP-1-T	4	B	←		

TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL

PHASE DIAGRAM



**4th AND J STREET
MODIFY SIGNAL AND LIGHTING**

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

E-6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	8	31

Brian T. Finck 2/16/12
 REGISTERED ELECTRICAL ENGINEER DATE
 3-12-12
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
 Brian T. Finck
 No. 17756
 Exp. 6-30-12
 ELECTRICAL
 STATE OF CALIFORNIA

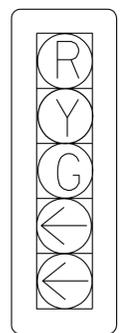
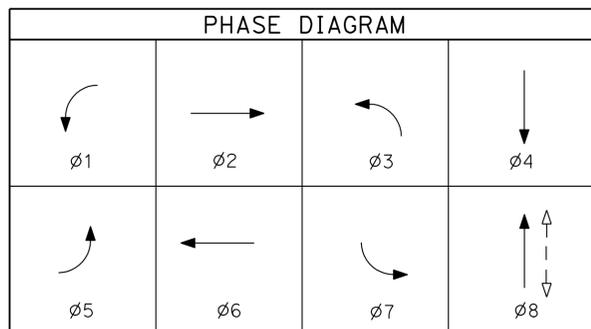
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- REPLACE EXISTING LED SIGNAL MODULES WITH NEW LED SIGNAL MODULES.

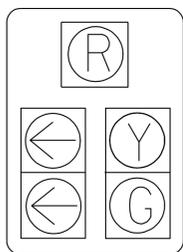
POLE AND EQUIPMENT SCHEDULE

Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON		HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE		
A	26A-4-100 SMA=40' LMA=15' F=18'	1	LA	MAS							310 W
		6	12"	MAS							
		3+8	VS								
		6	12"	SV-3-TB							
B	19A-4-100 SMA=25' LMA=15'	3+8	LP	MAS-5A							310 W
		6	12"		8	A	SP-1-T	8	B	→	
		8	12"	SV-3-TB							
		5	LA								
C	26A-3-100 SMA=50' LMA=15' F=18'	2	12"	SV-1							310 W
		2	12"	MAS							
		5	LA	MAS							
D	1-A	4+7	VS	TV-1-T	8	A	SP-1-T	8	B	←	
E	19A-4-100 SMA=25' LMA=15'	4+7	LP	MAS-5A							310 W
		4	12"	SV-1							
F	1-A	1	LA								
		2	12"	TV-2-T							

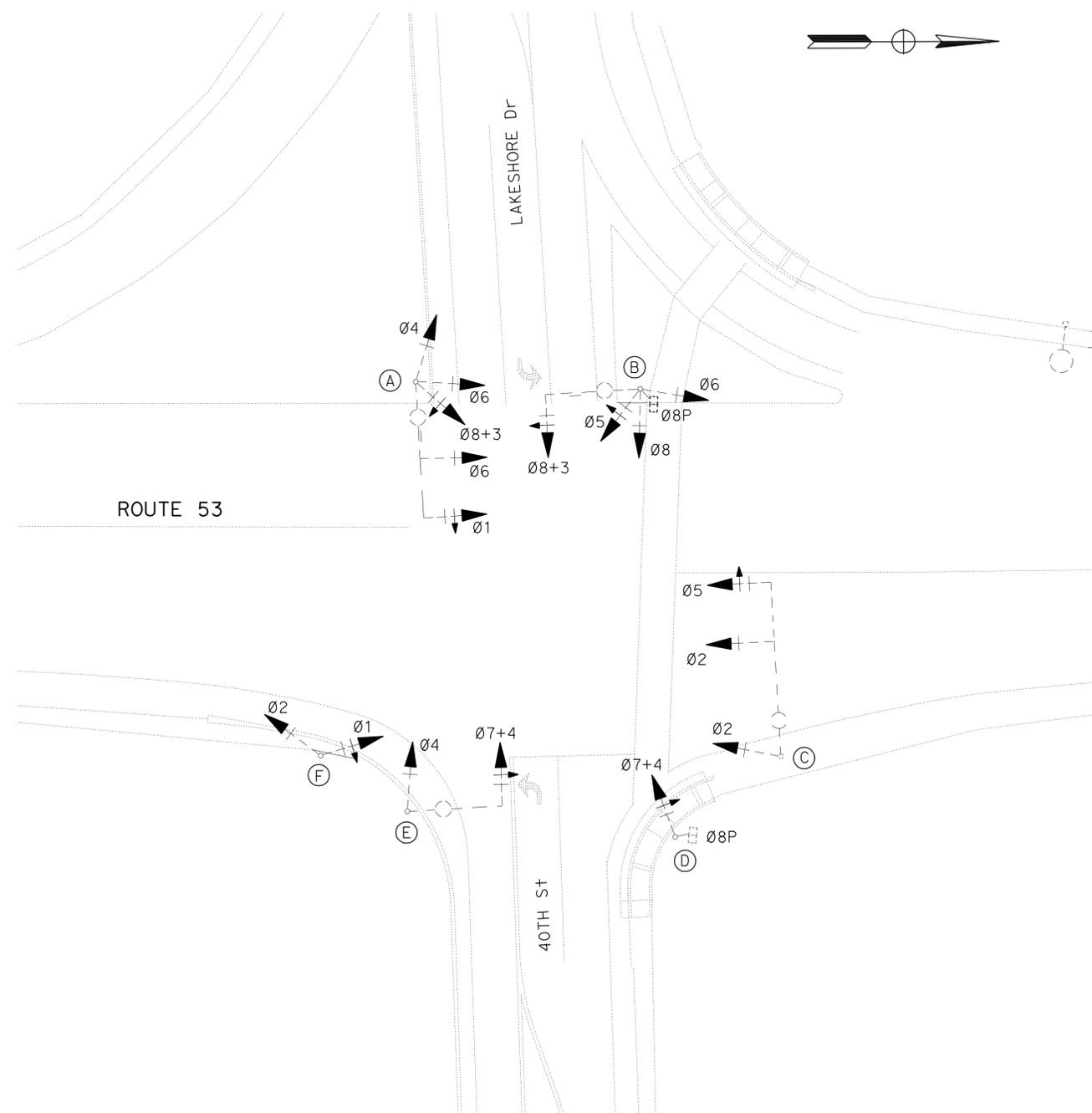
TYPE LA = 3-12" LEFT ARROW SECTIONS
 TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL
 TYPE VS = SEE DETAIL A
 TYPE LP = SEE DETAIL B



DETAIL A



DETAIL B



ROUTE 53 AND 40TH STREET
MODIFY SIGNAL AND LIGHTING
E-7

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum,Lak	29,53, 101	Var	10	31

Brian T. Finck
 REGISTERED ELECTRICAL ENGINEER DATE 2/16/12
 3-12-12
 PLANS APPROVAL DATE

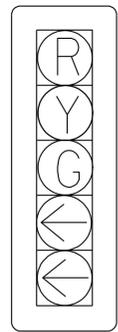
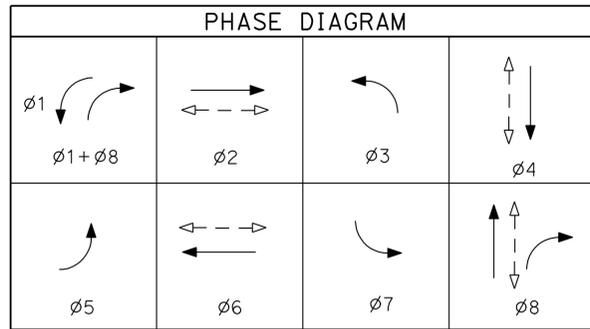
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REGISTERED PROFESSIONAL ENGINEER
 Brian T. Finck
 No. 17756
 Exp. 6-30-12
 ELECTRICAL
 STATE OF CALIFORNIA

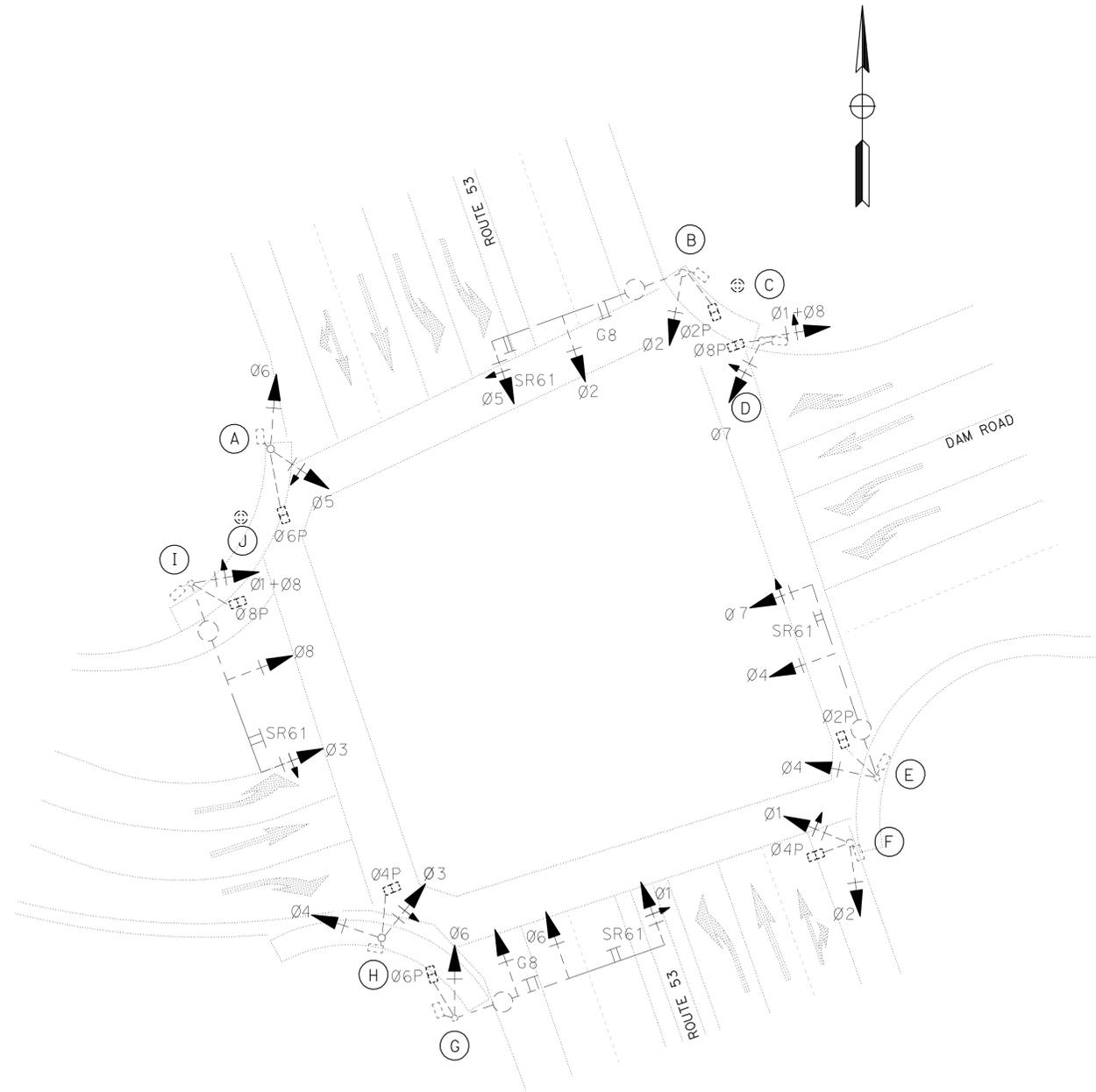
- NOTES:**
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 - REPLACE EXISTING LED SIGNAL MODULES WITH NEW LED SIGNAL MODULES.

POLE AND EQUIPMENT SCHEDULE											
Loc	STANDARD	VEHICLE SIGNAL		PEDESTRIAN SIGNAL		PED PUSH BUTTON		HPS LUMINAIRE	NOTES		
		Ø	TYPE	MTG	Ø	TYPE	MTG			Ø	TYPE
(A)	1-A	5	LA	TV-2-T	6	A	SP-1-T				
		6	12"								
(B)	29A-5-80 SMA=50' LMA=15'	2	12"	SV-1-T	2	A	SP-1-T	8	B	←	310 W 68, SR61 SIGNS
		2	12"	MAS							
		5	LA	MAT							
(C)	PPB POST								2	B	→
(D)	1-A	7	LA	TV-2-T	8	A	SP-1-T				5 SECTION HEAD
		1+8	VS								
(E)	29A-5-80 SMA=50' LMA=15'	4	12"	SV-1-T	4	A	SP-1-T	2	B	←	310 W SR61 SIGN
		4	12"	MAS							
		7	LA	MAT							
(F)	1-A	1	LA	TV-2-T	2	A	SP-1-T	4	B	→	
		2	12"								
(G)	29A-5-80 SMA=55' LMA=15'	1	LA	MAT	6	A	SP-1-T	4	B	←	310 W 68, SR61 SIGNS
		6	12"	MAS							
		6	12"	SV-1-T							
(H)	1-A	3	LA	TV-2-T	4	A	SP-1-T	6	B	→	
		4	12"								
(I)	29A-5-80 SMA=50' LMA=15'	3	LA	MAT	8	A	SP-1-T	6	B	←	310 W 5 SECTION HEAD SR61 SIGN
		8	12"								
		1+8	VS	SV-1-T							
(J)	PPB POST								8	B	→

TYPE LA = 3-12" LEFT ARROW SECTIONS
 TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL
 TYPE VS = SEE DETAIL A



DETAIL A



ROUTE 53 AND DAM ROAD
MODIFY SIGNAL AND LIGHTING
E-9

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans® TRAFFIC ELECTRICAL
 FUNCTIONAL SUPERVISOR: Troy Arseneau
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 REVISIONS: [Blank]
 REVISOR: [Blank]
 DATE: [Blank]
 REVISION: [Blank]
 DATE PLOTTED: 21-MAR-2012 08:40
 TIME PLOTTED: 08:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	11	31

Brian T. Finck
 REGISTERED ELECTRICAL ENGINEER DATE 2/16/12
 3-12-12
 PLANS APPROVAL DATE

Brian T. Finck
 No. 17756
 Exp. 6-30-12
 ELECTRICAL

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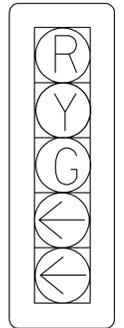
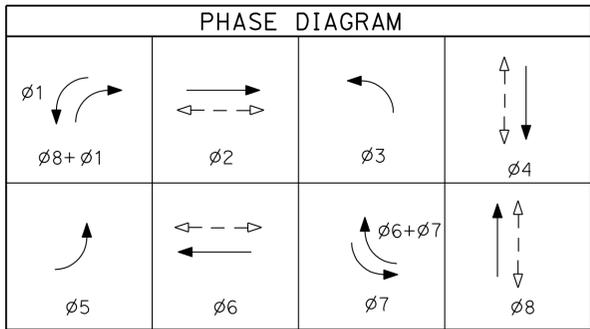
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- REPLACE EXISTING LED SIGNAL MODULES WITH NEW LED SIGNAL MODULES.

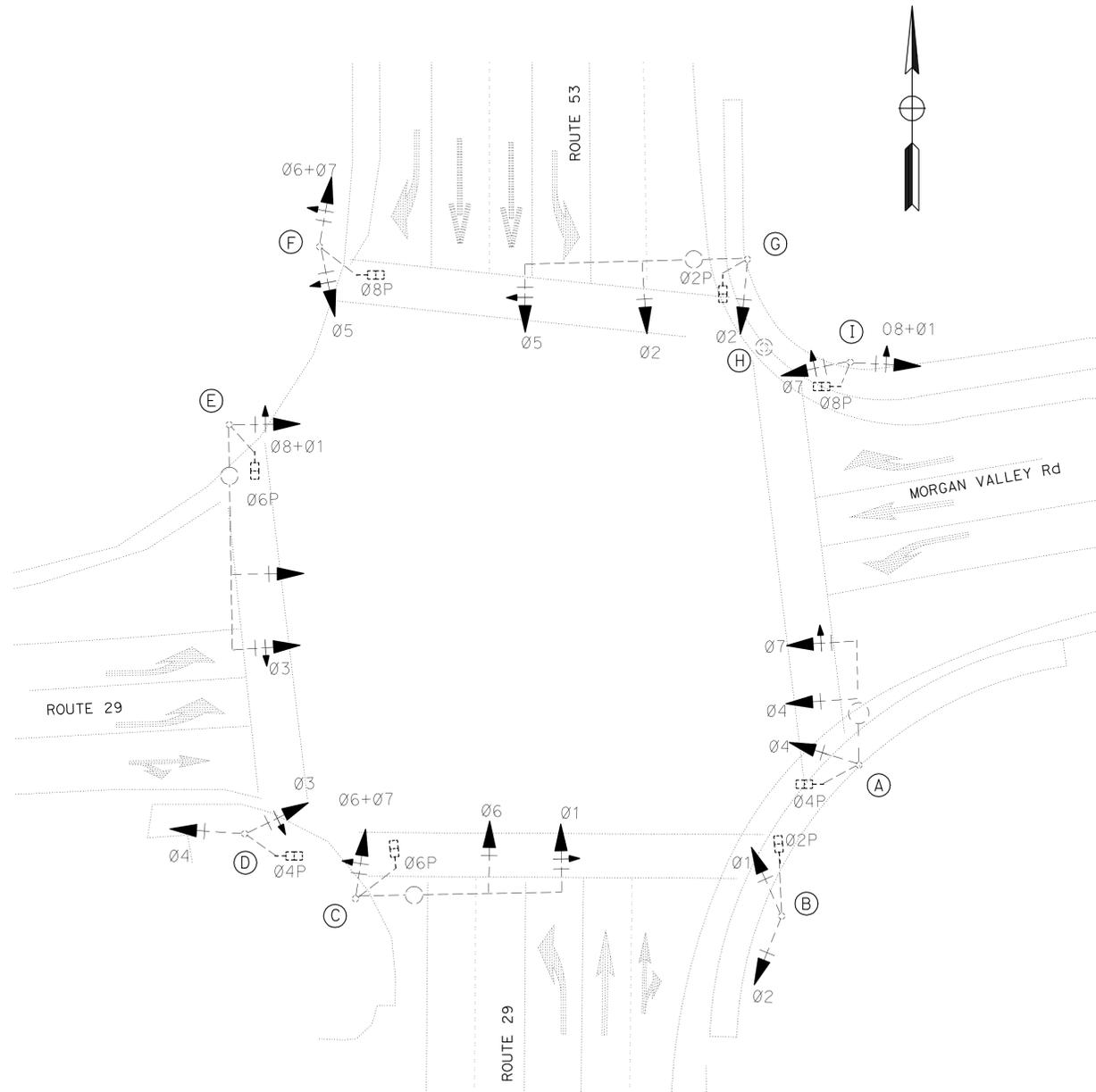
POLE AND EQUIPMENT SCHEDULE

Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON		HPS LUMINAIRE	NOTES	
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE			ARROW
A	26A-4-80 SMA=40' LMA=15'	4	12"	MAS	4	A	SP-1-T	2	B	←	310 W	
		4	12"	SV-1-T								
		7	LA	MAT								
B	1-A	1	LA	TV-2-T	2	A	SP-1-T	4	B	→		
		2	12"									
C	29A-5-80 SMA=50' LMA=15'	1	LA	MAT	6	A	SP-1-T	4	B	←	310 W	5 SECTION HEAD
		6+7	VS	SV-1-T								
		6	12"	MAT								
D	1-A	3	LA	TV-2-T	4	A	SP-1-T	6	B	→		
		4	12"									
E	29A-5-80 SMA=50' LMA=15'	3	LA	MAT	6	A	SP-1-T	6	B	←	310 W	5 SECTION HEAD
		8+1	VS	SV-1-T								
		8	12"	MAS								
F	1-A	5	LA	TV-2-T	8	A	SP-1-T	8	B	→		
		6+7	VS									
G	29A-5-80 SMA=50' LMA=15'	2	12"	MAS	2	A	SP-1-T	8	B	←	310 W	
		2	12"	SV-1-T								
		5	LA	MAT								
H	PPB							2	B	→		MODIFIED PPB
I	1-A	7	LA	TV-2-T	8	A	SP-1-T					5 SECTION HEAD
		8+1	VS									

TYPE LA = 3-12" LEFT ARROW SECTIONS
 TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL
 TYPE VS = SEE DETAIL A



DETAIL A



ROUTE 29/53 JUNCTION
MODIFY SIGNAL AND LIGHTING
E-10

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC ELECTRICAL

FUNCTIONAL SUPERVISOR: Troy Arseneau
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 REVISIONS: [Blank]
 DESIGNED BY: [Blank]
 DATE REVISION: [Blank]

NOTES:

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- REPLACE EXISTING LED SIGNAL MODULES WITH NEW LED SIGNAL MODULES.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	12	31

Brian T. Finck
 REGISTERED ELECTRICAL ENGINEER DATE 2/16/12

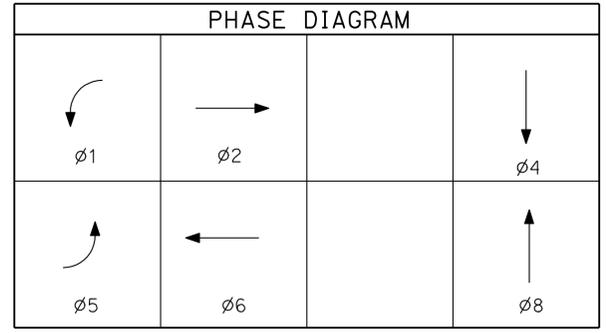
3-12-12
 PLANS APPROVAL DATE

Brian T. Finck
 No. 17756
 Exp. 6-30-12
 ELECTRICAL

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POLE AND EQUIPMENT SCHEDULE											
Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON		HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE		
A	18-3-70	8	12"	MAT						200 W	FIT Ø8 SIDE MOUNT W/12" HARDWARE
	20-1-SMA	8	12"	SV-1-T							
	15-LMA	4	12"	SV-1-T							
B	1-A	5	LA								
		6	12"	TV-2-T							
C	26-3-70	5	LA	MAT						200 W	
	40-1-SMA	2	12"	MAS							
	15-LMA	2	12"	SV-1-T							
D	1-A	4	12"	TV-1-T							
E	24-3-70	4	12"	MAT						200 W	FIT Ø4 SIDE MOUNT W/12" HARDWARE
	35-1-SMA	4	12"	SV-1-T							
F	1-A	1	LA								
		2	12"	TV-2-T							
G	26-3-70	1	LA	MAT						200 W	
	40-1-SMA	6	12"	MAS							
	15-LMA	6	12"	SV-1-T							
H	1-A	8	12"	TV-1-T							FIT W/12" HARDWARE

TYPE LA = 3-12" LEFT ARROW SECTIONS
 TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL



ROUTE 29/175 JUNCTION
MODIFY SIGNAL AND LIGHTING
 NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

E-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	13	31

Brian T. Finck
 REGISTERED ELECTRICAL ENGINEER DATE 2/16/12
 3-12-12
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Brian T. Finck
 No. 17756
 Exp. 6-30-12
 ELECTRICAL
 STATE OF CALIFORNIA

NOTES:

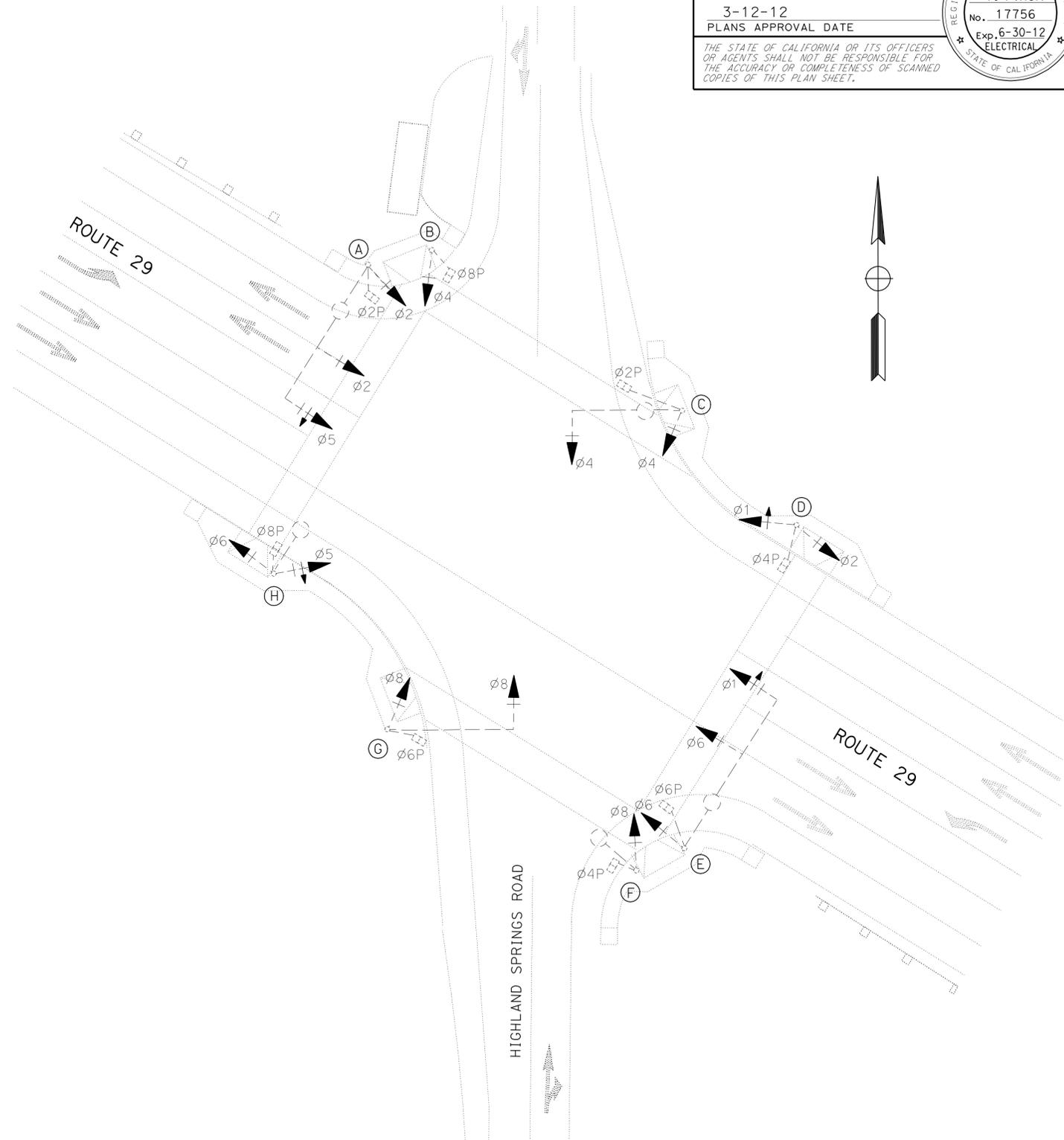
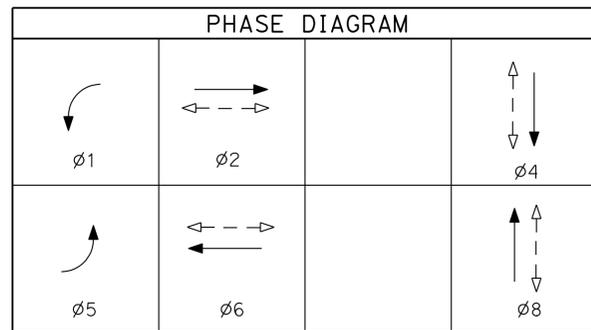
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POLE AND EQUIPMENT SCHEDULE

Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON			HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE	ARROW		
A	26A-4-129 SMA=13.7 LMA=4.5	2	12"	MAS	2	A	SP-1-T	8	B	←	310 W	
		2	12"	SV-1-T								
		5	LA	MAT								
B	1-A	4	12"	TV-1-T	8	A	SP-1-T	2	B	→		
C	24A-4-129 SMA=10.7 LMA=3.1	4	12"	MAT	2	A	SP-1-T	2	B	←	310 W	
		4	12"	SV-1-T								
D	1-A	1	LA	TV-2-T	4	A	SP-1-T	4	B	←		
		2	12"									
E	28A-5-129 SMA=15.2 LMA=4.6	6	12"	MAS	6	A	SP-1-T	4	B	←	310 W	
		6	12"	SV-1-T								
		1	LA	MAT								
F	15 LMA=3.7	8	12"	SV-1-T	4	A	SP-1-T	6	B	→	200 W	
G	23-4-129 SMA=10.7	8	12"	MAT	6	A	SP-1-T	6	B	←		
		8	12"	SV-1-T								
H	22 LMA=3.7	5	LA	SV-2-T	8	A	SP-1-T	8	B	←	310 W	
		6	12"									

TYPE LA = 3-12" LEFT ARROW SECTIONS
 TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL

PHASE DIAGRAM



**ROUTE 29 AND HIGHLAND SPRINGS ROAD
 MODIFY SIGNAL AND LIGHTING**
 NO SCALE
E-12

APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	14	31

Brian T. Finck
 REGISTERED ELECTRICAL ENGINEER DATE 2/16/12
 3-12-12
 PLANS APPROVAL DATE
 No. 17756
 Exp. 6-30-12
 ELECTRICAL
 STATE OF CALIFORNIA

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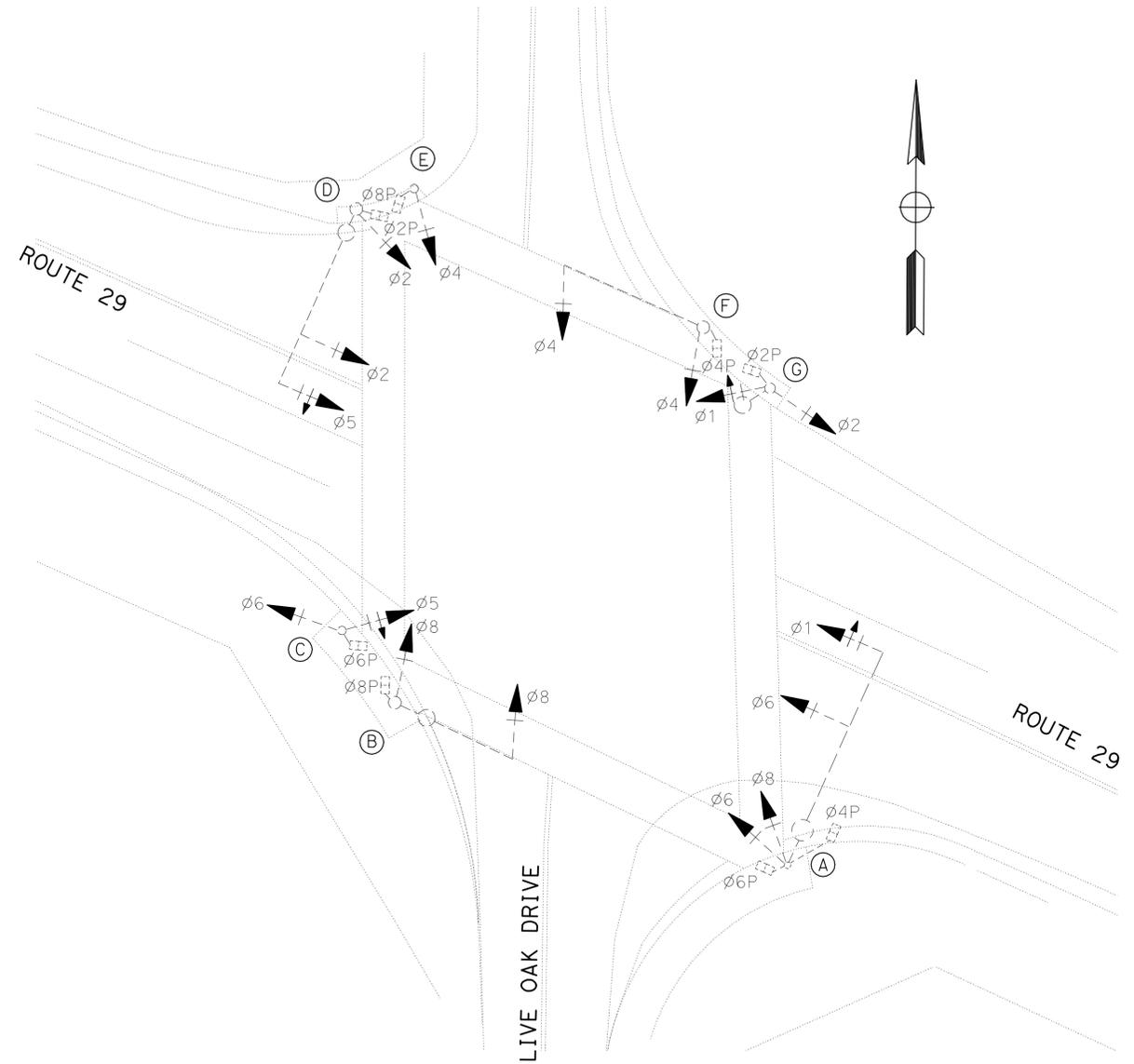
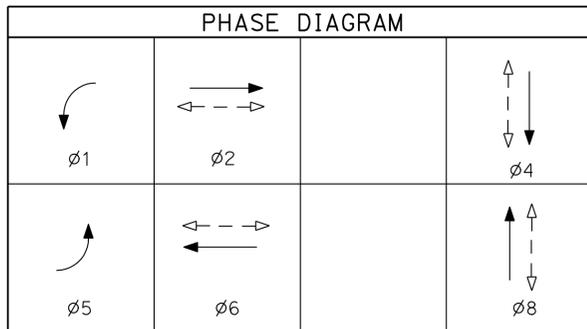
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POLE AND EQUIPMENT SCHEDULE

Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON			HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE	ARROW		
A	29-5-80 SMA=50' LMA=8' T=18'	1	LA	MAT	4	A	SP-2-T	4	B	←	200 W	
		6	12"	MAS	6	A	SP-2-T	6	B	←		
		8	12"	SV-2-T								
B	19-2-80 SMA=30' LMA=8'	8	12"	MAT	8	A	SP-1-T	6	B	←	200 W	
		8	12"	SV-1-T								
C	1-A	6	12"	TV-2-T	6	A	SP-1-T	8	B	→		
		5	LA									
D	26-4-80 SMA=45' LMA=6' T=15'	5	LA	MAT	2	A	SP-1-T	8	B	←	200 W	
		2	12"	MAS								
		2	12"	SV-1-T								
E	1-A	4	12"	TV-1-T	8	A	SP-1-T	2	B	→		
F	23-3-80 SMA=35'	4	12"	MAT	4	A	SP-1-T	2	B	←		
		4	12"	SV-1-T								
G	15 LMA=6'	2	12"		2	A	SP-1-T	4	B	→		
		1	LA	SV-2-T								

TYPE LA = 3-12" LEFT ARROW SECTIONS
 TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL

PHASE DIAGRAM

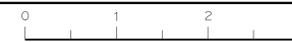


**ROUTE 29 AND LIVE OAK DRIVE
MODIFY SIGNAL AND LIGHTING**

NO SCALE

E-13

APPROVED FOR ELECTRICAL WORK ONLY



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	15	31

Brian T. Finck
REGISTERED ELECTRICAL ENGINEER DATE 2/16/12

3-12-12
PLANS APPROVAL DATE

Brian T. Finck
No. 17756
Exp. 6-30-12
ELECTRICAL

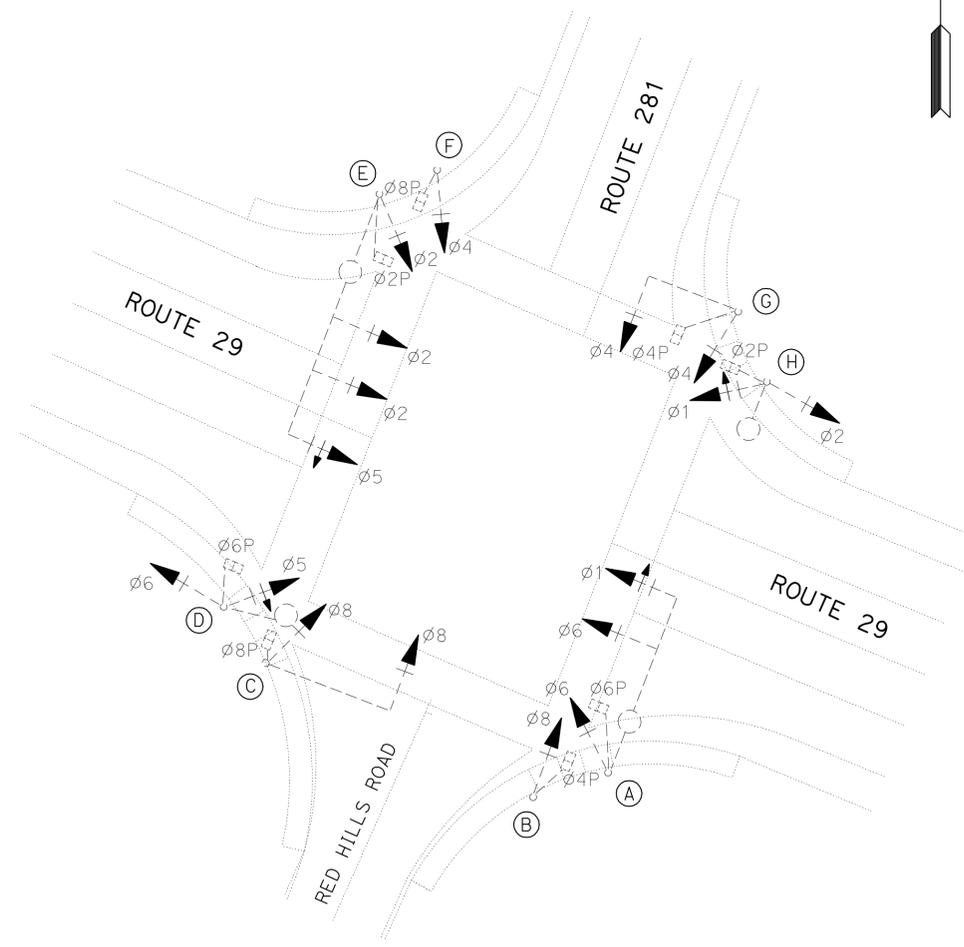
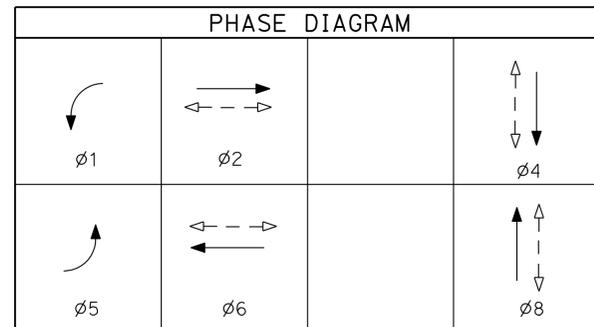
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NOTES:

- FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
- EXCEPT AS SHOWN, POLES AND EQUIPMENT ARE EXISTING, THE CONTRACTOR SHALL VERIFY MOUNTINGS IN THE FIELD PRIOR TO ORDERING.
- REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PUSH BUTTONS AND PLACE AT CORRECT HEIGHT.
- REPLACE EXISTING LED SIGNAL MODULES WITH NEW LED SIGNAL MODULES.

POLE AND EQUIPMENT SCHEDULE												
Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON			HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE	ARROW		
A	28A-4-100 SMA=40' LMA=15'	6	12"	SV-1-T	6	A	SP-1-T	4	B	←	310 W	
		6	12"	MAS								
		1	LA	MAT								
B	1-A	8	12"	TV-1-T	4	A	SP-1-T	6	B	→		
C	18-4-100 SMA=30' LMA=15'	8	12"	SV-1-T	8	A	SP-1-T	6	B	←		
		8	12"	MAT								
D	15TS LMA=15'	5	LA	SV-2-TD	6	A	SP-1-T	8	B	→	200 W	
		6	12"	SV-1-T								
E	29A-5-100 SMA=50' LMA=15'	2	12"	MAS	2	A	SP-1-T	8	B	←	310 W	
		2	12"	MAS								
		5	LA	MAT								
F	1-A	4	12"	TV-1-T	8	A	SP-1-T	2	B	→		
G	16-3-100 SMA=15'	4	12"	SV-1-T	4	A	SP-1-T	2	B	←		
		4	12"	MAT								
H	15TS LMA=15'	1	LA	SV-2-TB	2	A	SP-1-T	4	B	→	200 W	
		2	12"	SV-1-T								

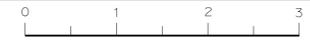
TYPE LA = 3-12" LEFT ARROW SECTIONS
TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL



ROUTE 29/281 JUNCTION
MODIFY SIGNAL AND LIGHTING
NO SCALE
E-14

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC ELECTRICAL**
FUNCTIONAL SUPERVISOR: Troy Arsenneau
DESIGNED BY: Bill Bartley
CHECKED BY: Brian T. Finck
REVISOR: Brian T. Finck
DATE: 2/16/12



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	16	31

Brian T. Finck
 REGISTERED ELECTRICAL ENGINEER DATE 2/16/12
 3-12-12
 PLANS APPROVAL DATE

Brian T. Finck
 No. 17756
 Exp. 6-30-12
 ELECTRICAL
 STATE OF CALIFORNIA

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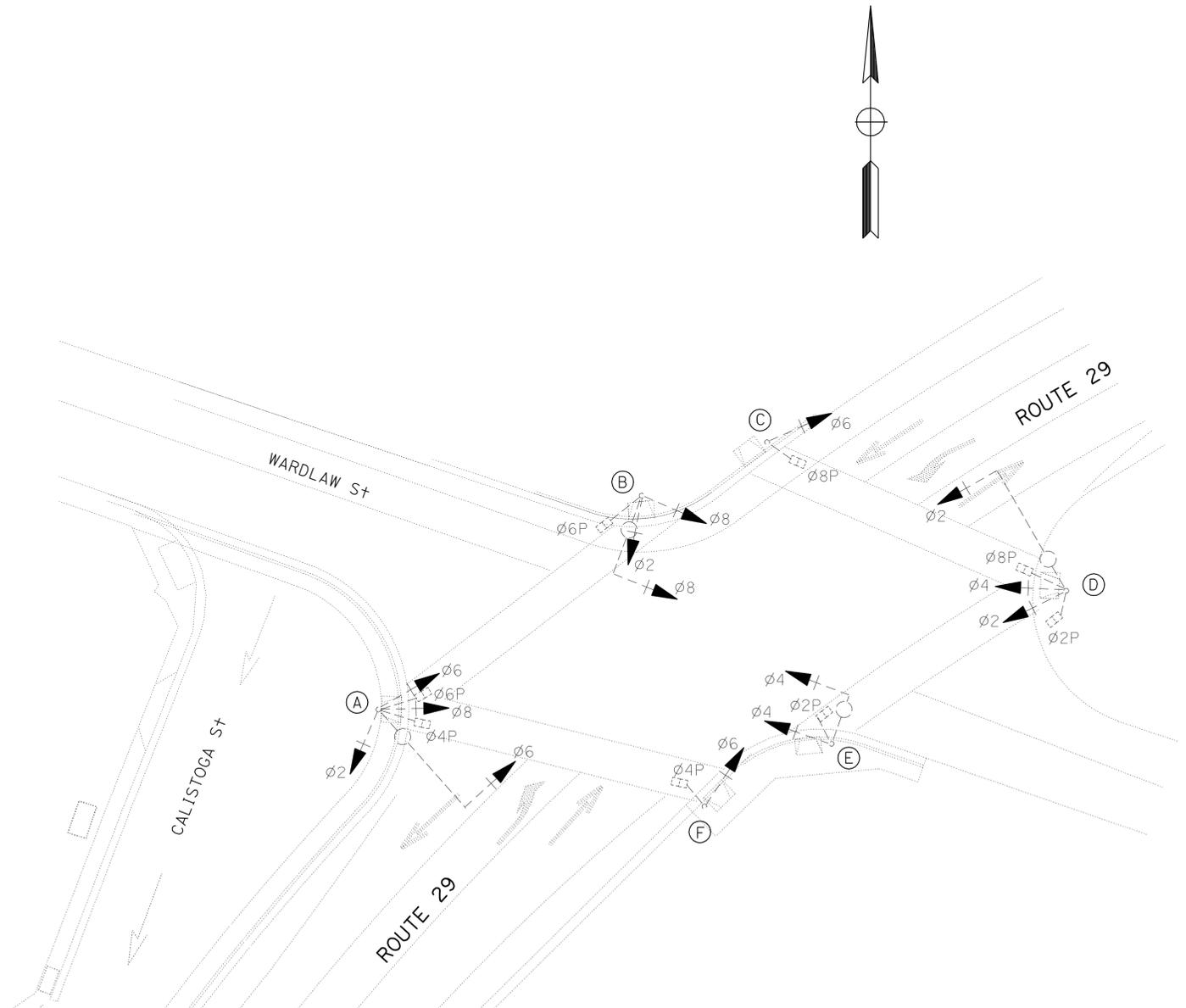
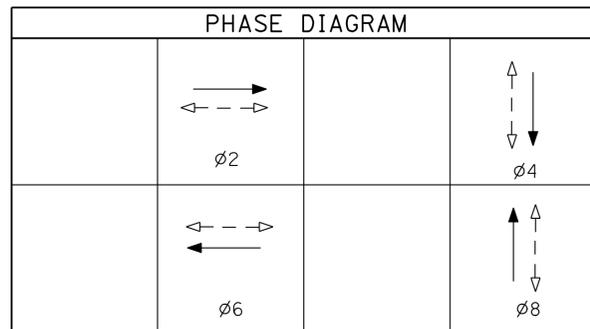
NOTES:

- FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
- EXCEPT AS SHOWN, POLES AND EQUIPMENT ARE EXISTING, THE CONTRACTOR SHALL VERIFY MOUNTINGS IN THE FIELD PRIOR TO ORDERING.
- REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PUSH BUTTONS AND PLACE AT CORRECT HEIGHT.
- REPLACE EXISTING LED SIGNAL MODULES WITH NEW LED SIGNAL MODULES.

POLE AND EQUIPMENT SCHEDULE

Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON			HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE	ARROW		
A	26-4-129 SMA=40' LMA=12'	8	12"	SV-2-TA	6	A	SP-2-T	4	B	←	150 W	
		6	8"		4	A		→				
		2	12"	SV-1-T	6	B						
		6	12"	MAT								
B	17-2-129 SMA=20' LMA=12'	2	12"	SV-2-TA	6	A	SP-1-T	6	B	←	150 W	
		8	8"									
		8	12"	MAT								
C	1-A	6	12"	TV-1-T	8	A	SP-1-T	8	B	→		
D	26-4-129 SMA=40' LMA=12'	4	12"	SV-2-TA	2	A	SP-2-T	2	B	→	150 W	
		2	8"		8	A		←				
		2	12"	MAT								
E	17-2-129 SMA=15' LMA=12'	4	8"	SV-1-T	2	A	SP-1-T	2	B	←	150 W	PEC
		4	12"	MAT								
F	1-A	6	12"	TV-2-T	4	A	SP-1-T	4	B	→		

TYPE LA = 3-12" LEFT ARROW SECTIONS
 TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL



**ROUTE 29 AND WARDLAW STREET
 MODIFY SIGNAL AND LIGHTING**
 NO SCALE

E-15

APPROVED FOR ELECTRICAL WORK ONLY

NOTES:

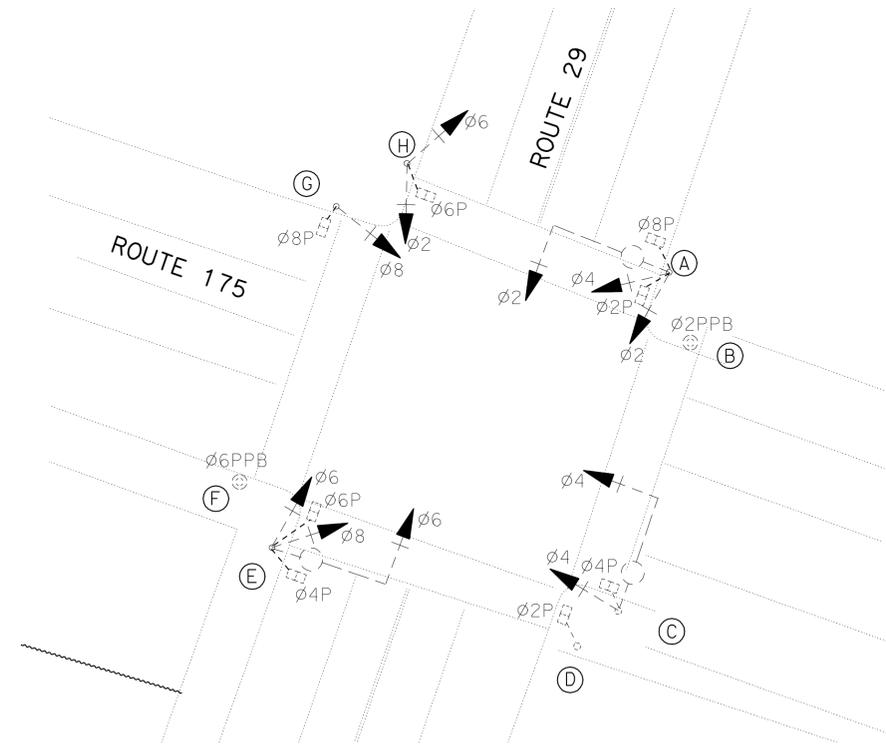
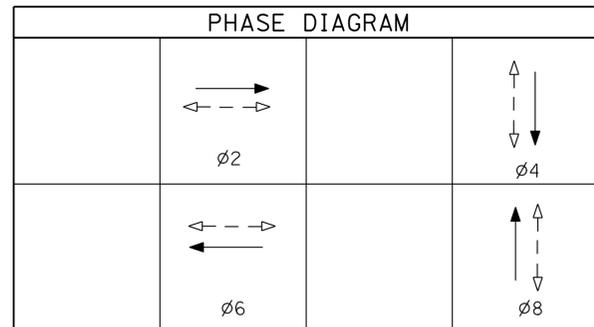
- FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
- EXCEPT AS SHOWN, POLES AND EQUIPMENT ARE EXISTING, THE CONTRACTOR SHALL VERIFY MOUNTINGS IN THE FIELD PRIOR TO ORDERING.
- REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PUSH BUTTONS AND PLACE AT CORRECT HEIGHT.
- REPLACE EXISTING LED SIGNAL MODULES WITH NEW LED SIGNAL MODULES.

POLE AND EQUIPMENT SCHEDULE

Loc	STANDARD	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON			HPS LUMINAIRE	NOTES
		Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	TYPE	ARROW		
(A)	19-2-70	2	12"	MAT	2	A	SP-2-T	8	B	←	200 W	
	SMA=25'	2	12"	SV-2-T								
	LMA=15'	4	12"									
(B)	PPB POST							2	B			
(C)	18-2-70	4	12"	MAT	4	A	SP-1-T	2	B	←	200 W	
	SMA=25'	4	12"	SV-1-T								
(D)	1-A				2	A	TP-1-T	4	B	→		
(E)	19-2-70	6	12"	MAT	4	A	SP-2-T	4	B	←	200 W	
	SMA=25'	8	12"	SV-2-T								
	LMA=15'	6	12"									
(F)	PPB POST							6	B			
(G)	1-A	8	12"	TV-1-T	8	A	SP-1-T	6	B	←		
(H)	1-A	6	12"	TV-2-T	6	A	SP-1-T	8	B	→		

TYPE LA = 3-12" LEFT ARROW SECTIONS
 TYPE 12" = 3-12" CIRCULAR SECTIONS PER SIGNAL

PHASE DIAGRAM



**ROUTE 29/175 JUNCTION
 MODIFY SIGNAL AND LIGHTING**

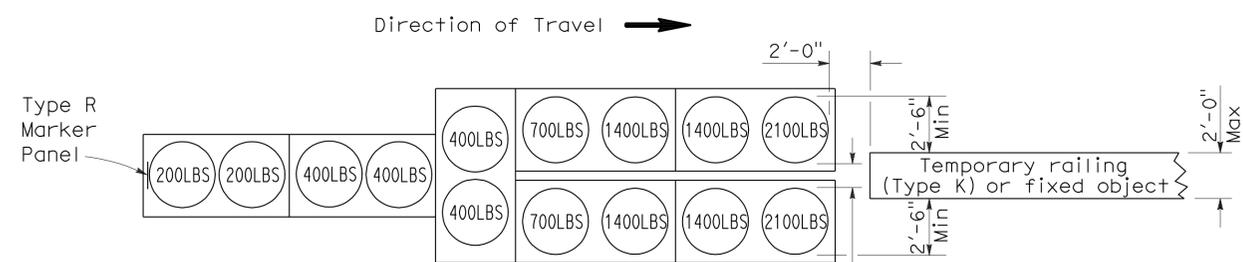
NO SCALE

E-16

APPROVED FOR ELECTRICAL WORK ONLY

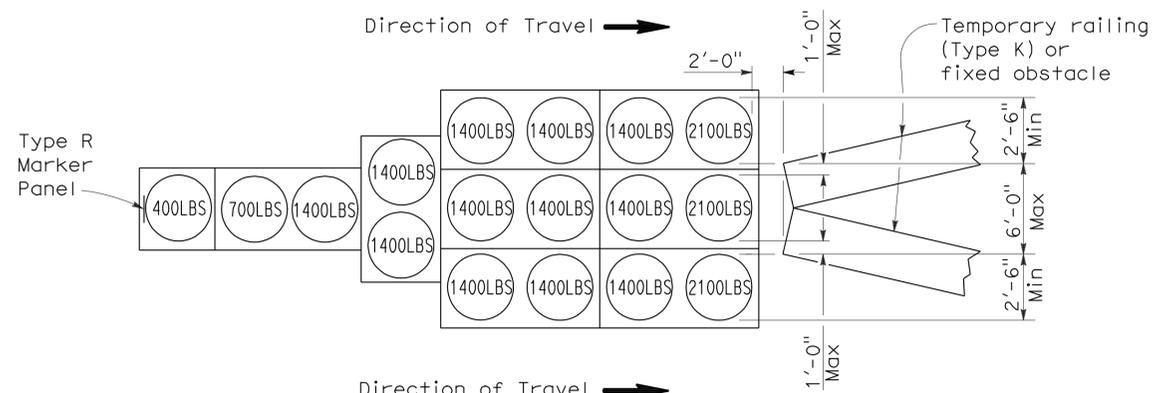


To accompany plans dated 3-12-12



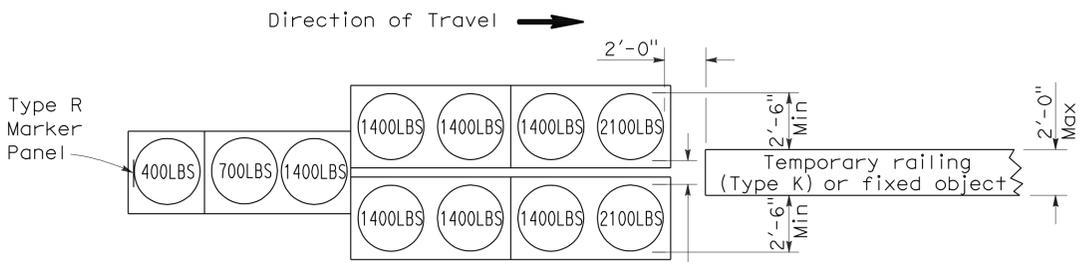
ARRAY 'TU14'

Approach speed 45 mph or more



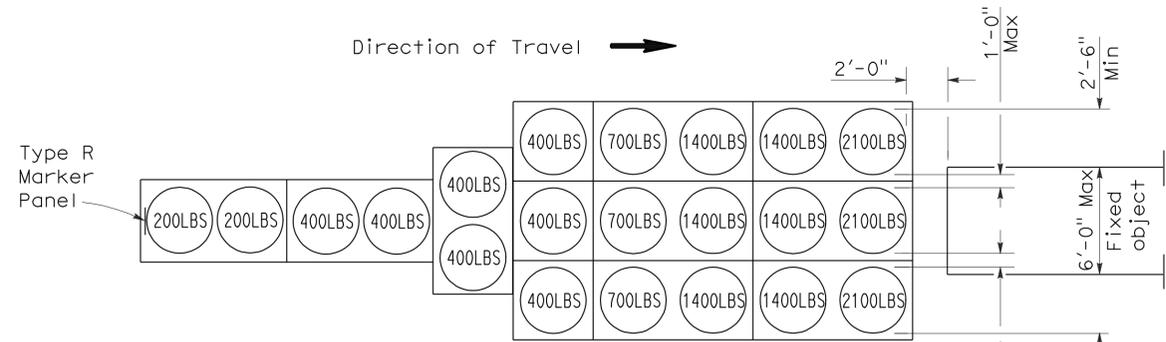
ARRAY 'TU17'

Approach speed less than 45 mph



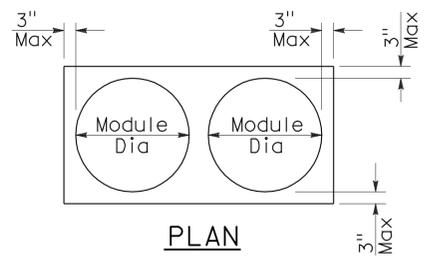
ARRAY 'TU11'

Approach speed less than 45 mph

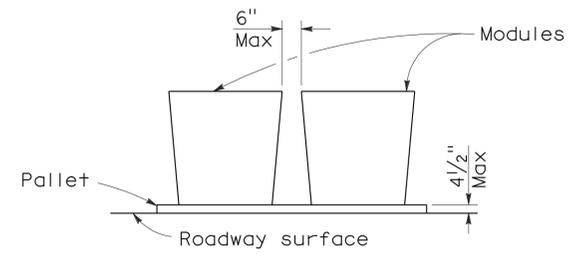


ARRAY 'TU21'

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

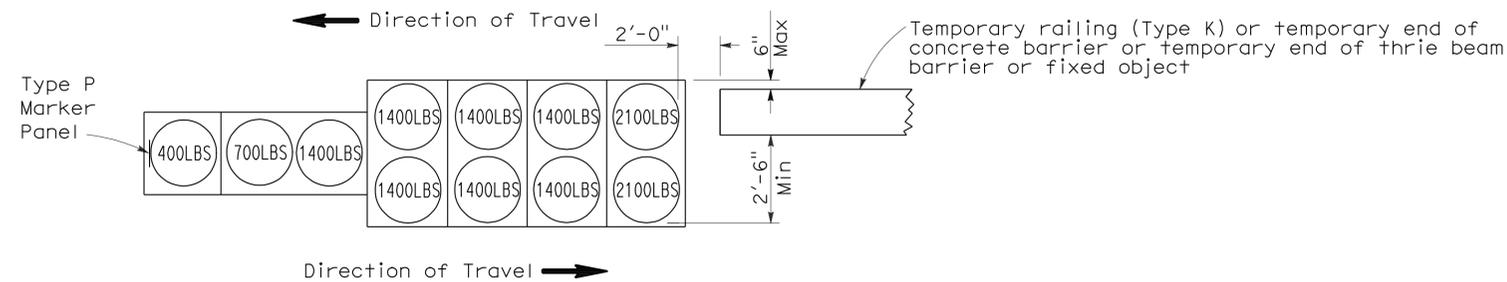
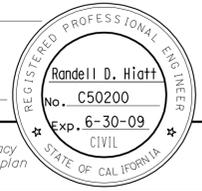
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	19	31

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

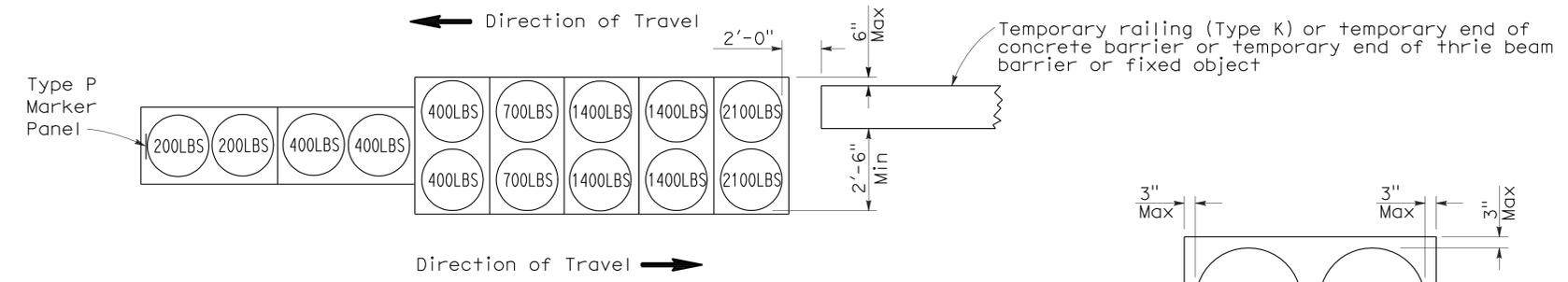
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To accompany plans dated 3-12-12



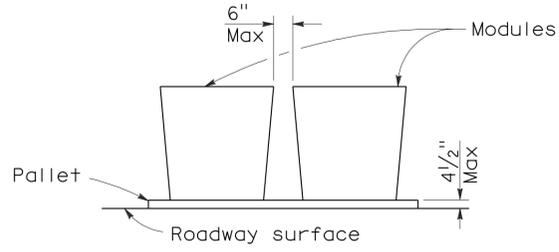
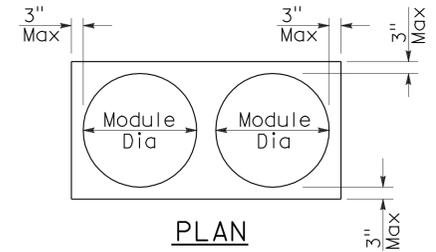
ARRAY 'TB11'

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
01	Hum,Lak	29,53,101	Var	20	31

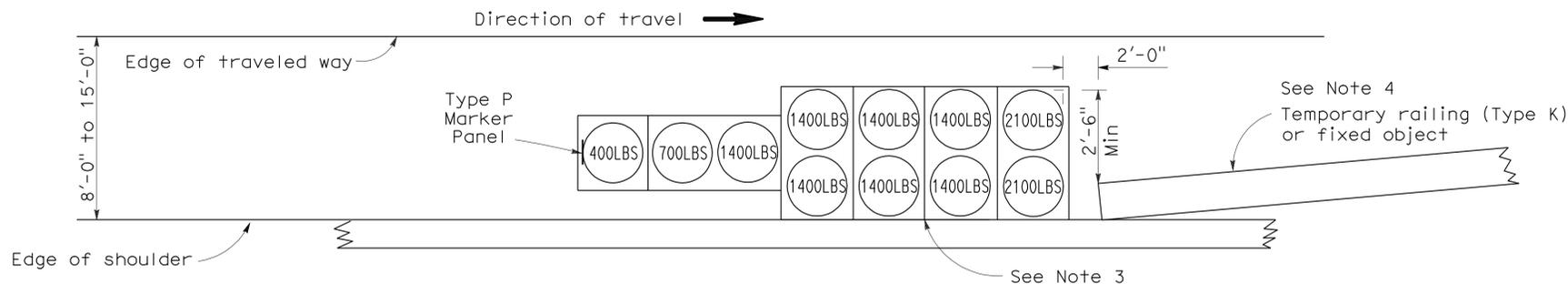
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

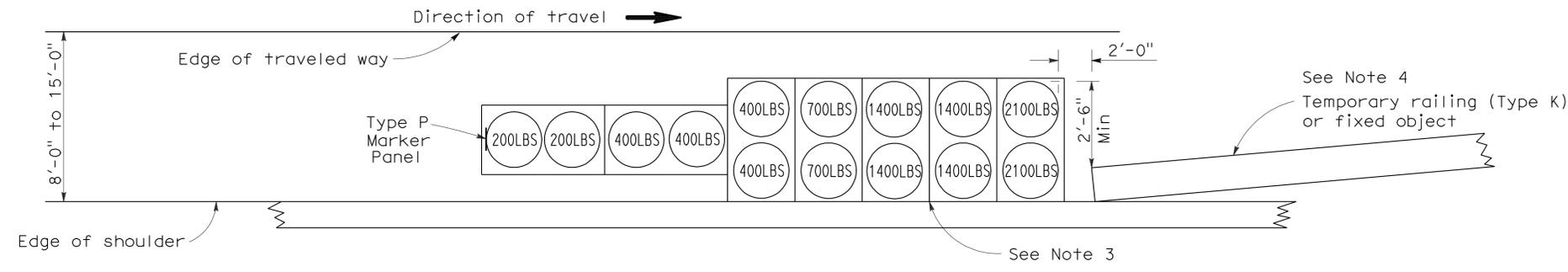
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 3-12-12



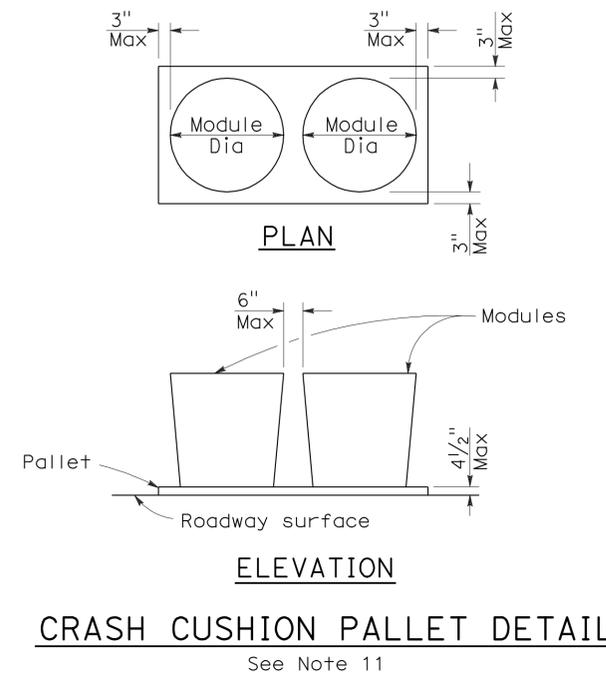
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

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. 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.
4. 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.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. 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.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. 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

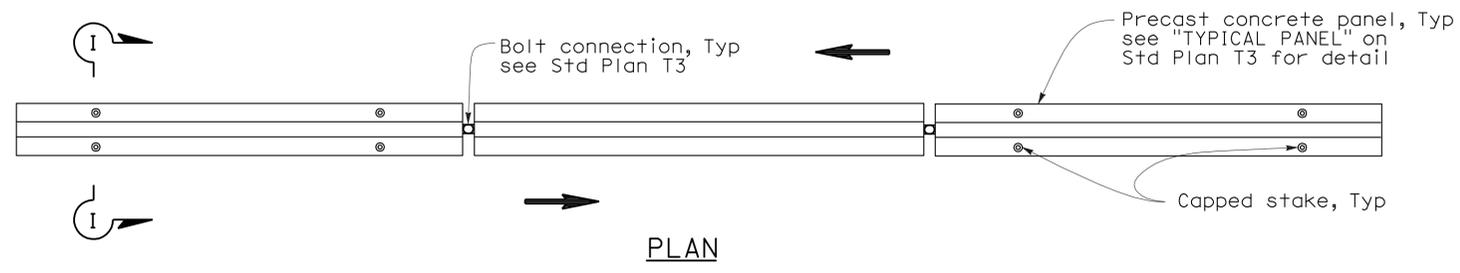
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum,Lak	29,53, 101	Var	21	31

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

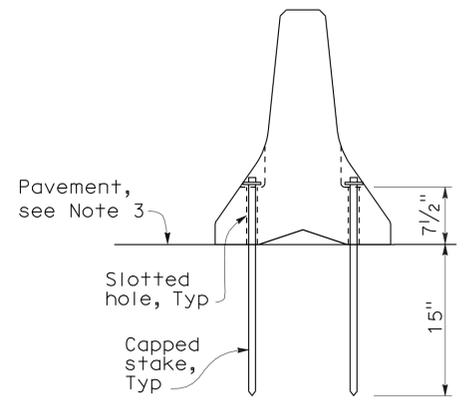
May 20, 2011
PLANS APPROVAL DATE

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To accompany plans dated 3-12-12

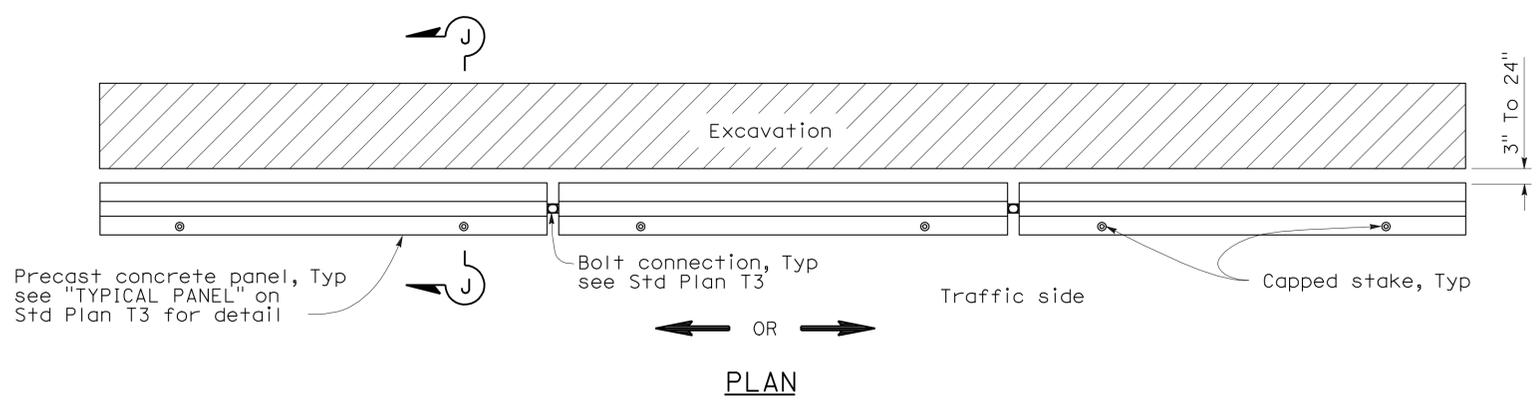


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

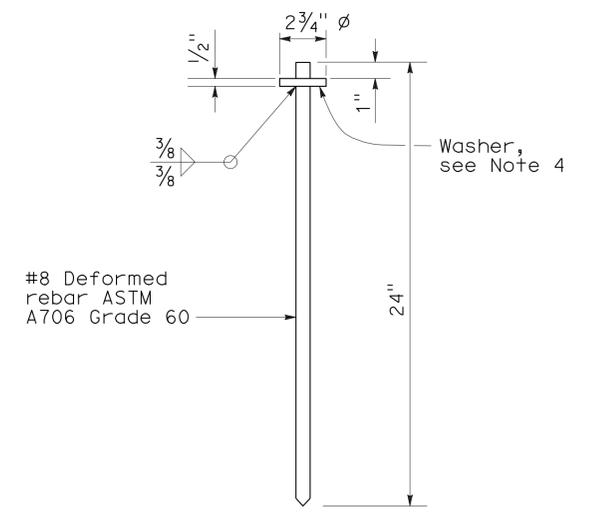
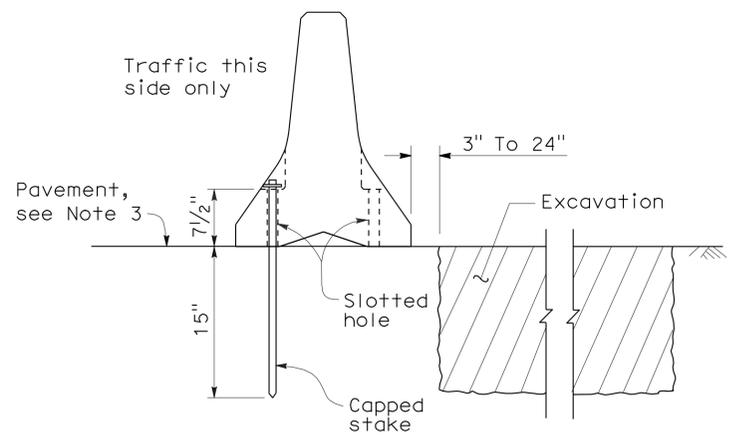


NOTES:

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.

NEW STANDARD PLAN NSP T3A

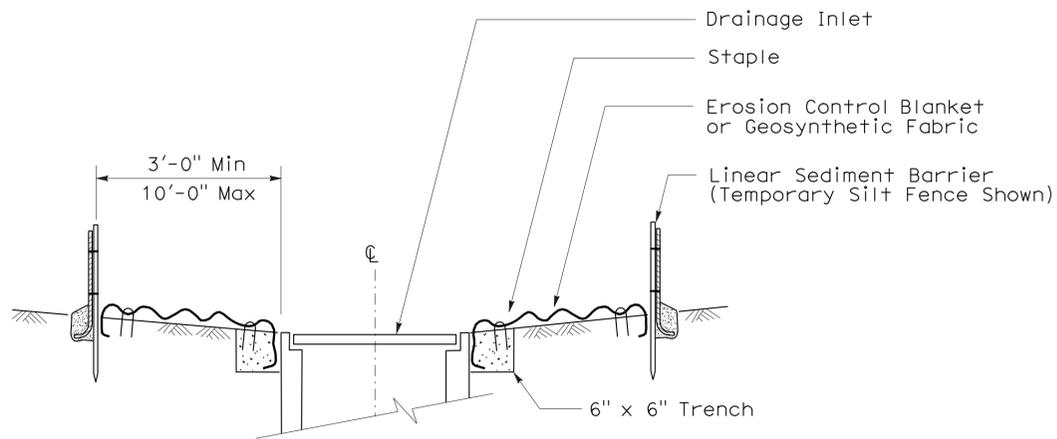
2006 NEW STANDARD PLAN NSP T3A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	22	31

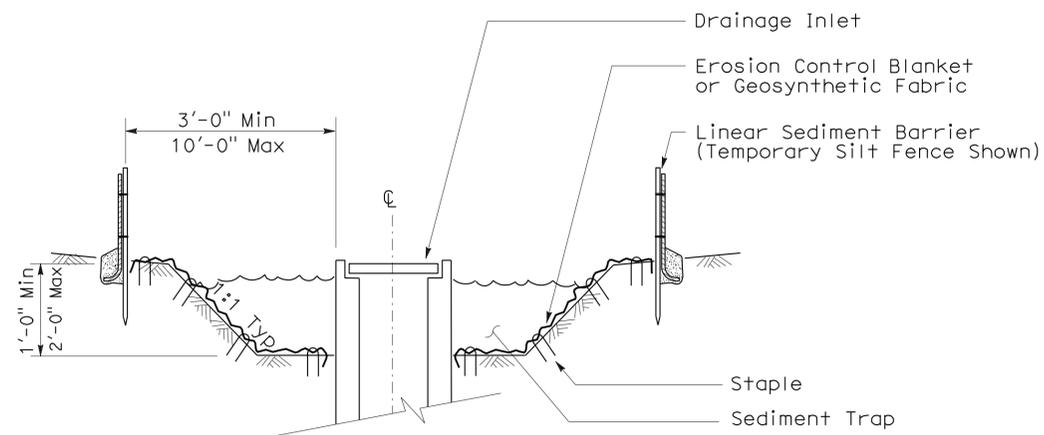
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS Approval DATE

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

To accompany plans dated 3-12-12



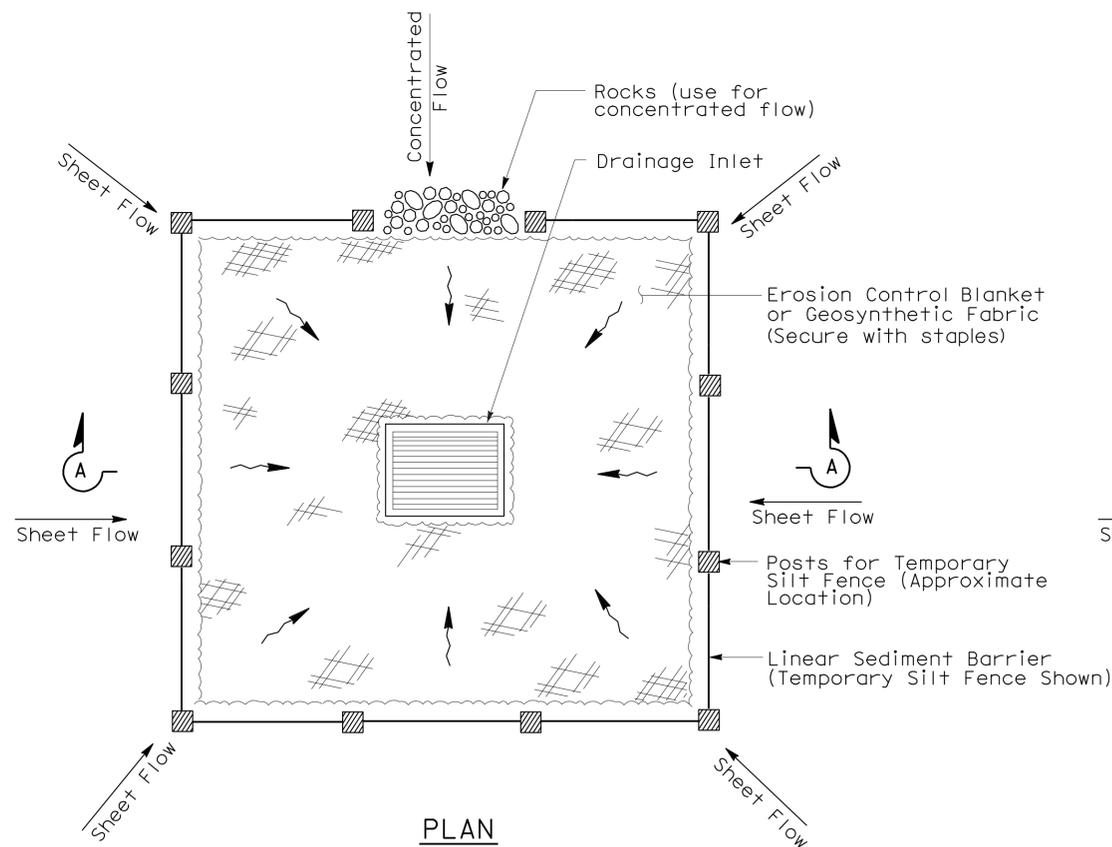
SECTION A-A



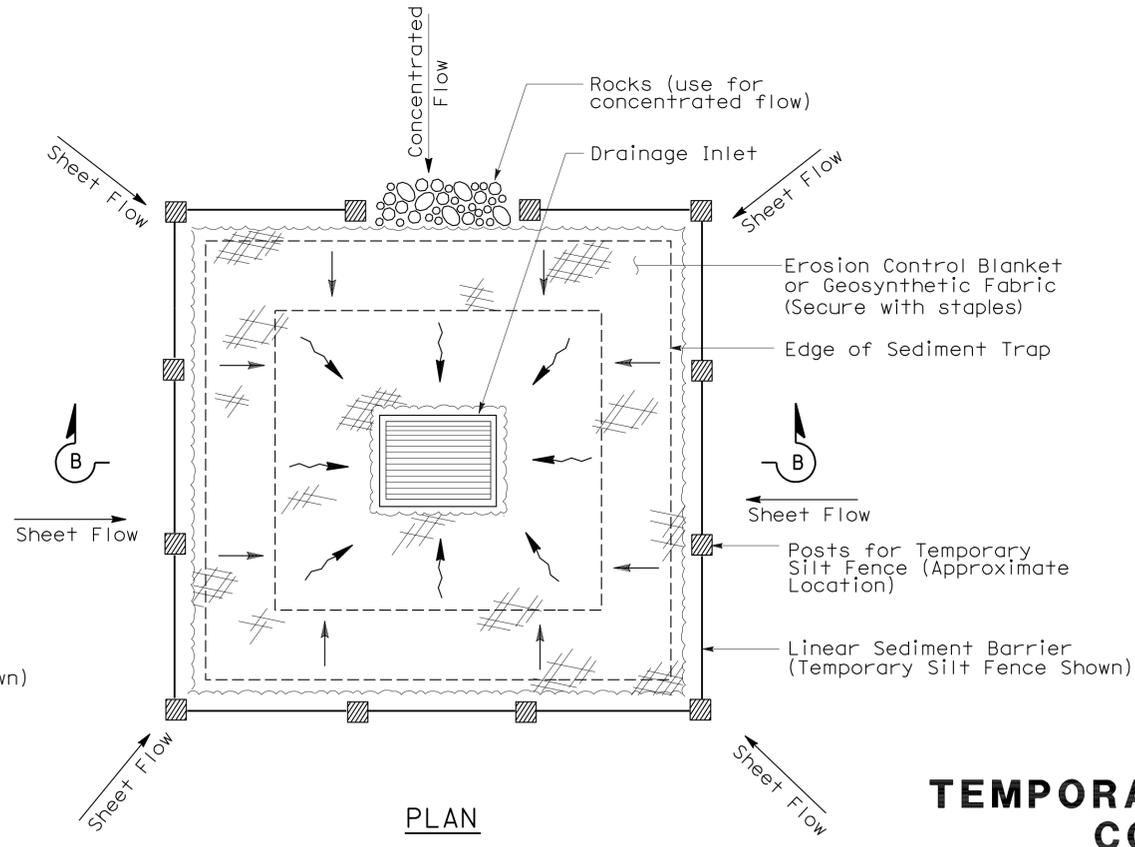
SECTION B-B

NOTES:

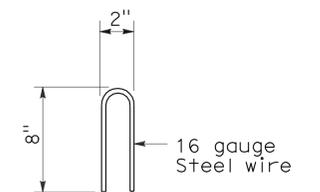
1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)



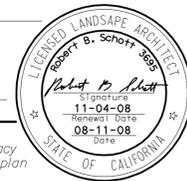
STAPLE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T61 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

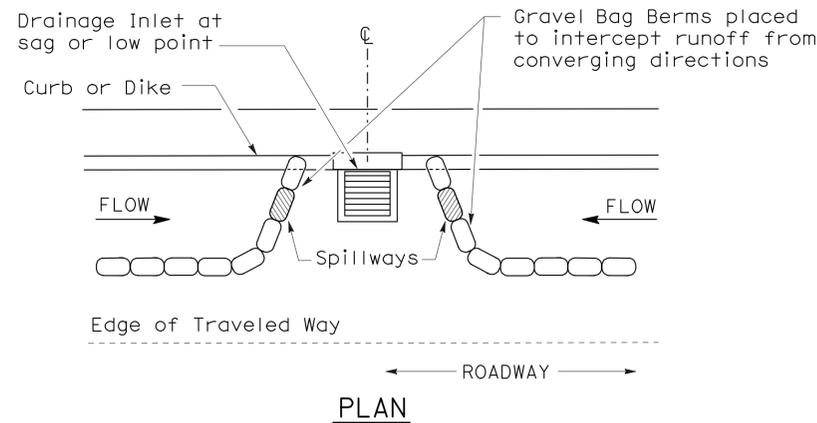


To accompany plans dated 3-12-12

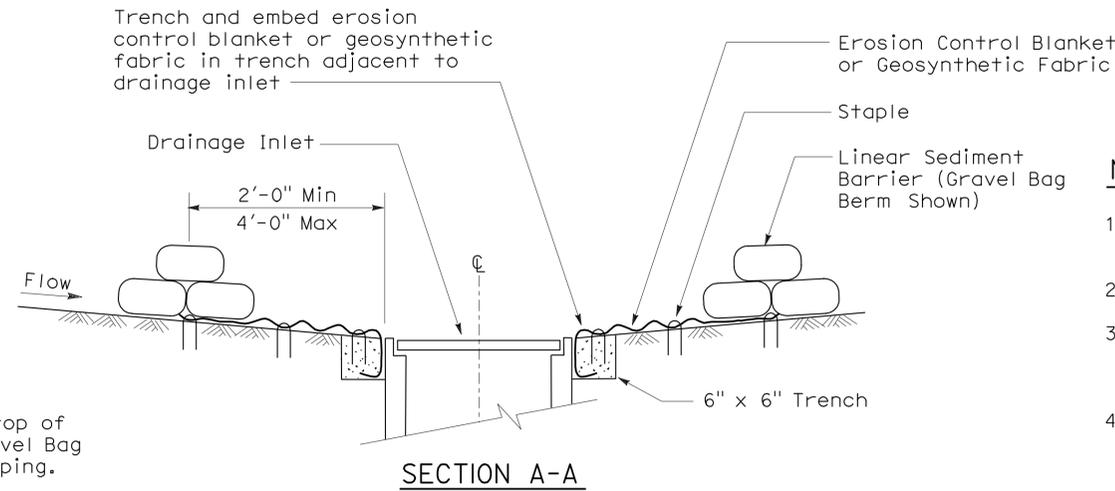
GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

For slope of less than 1%, install barriers only if erosion/sediment is prevalent



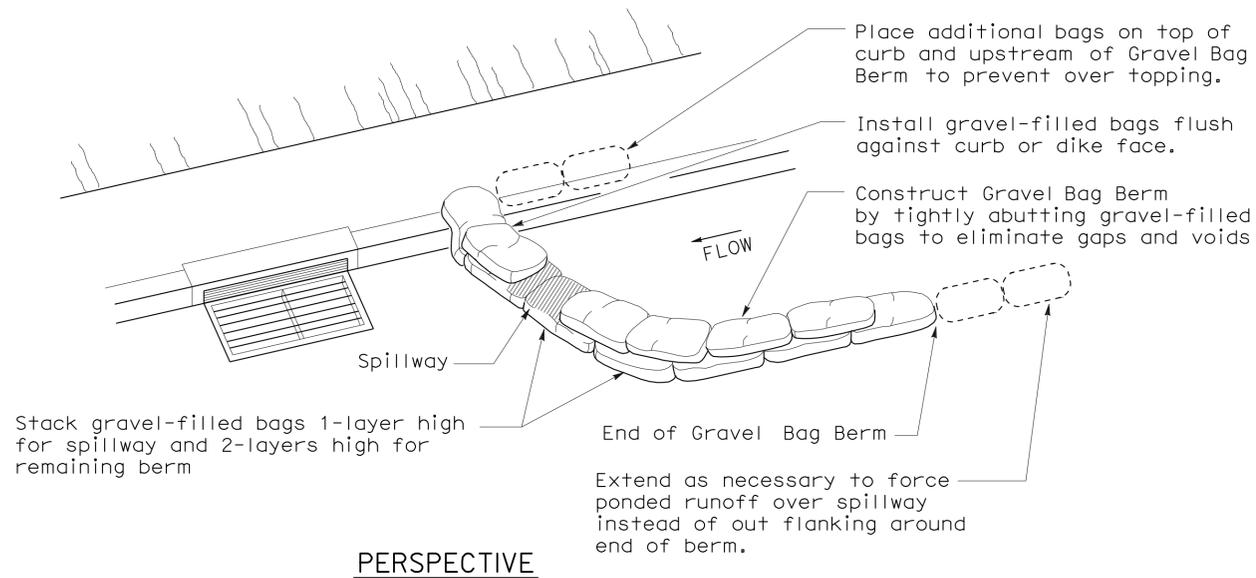
PLAN
CONFIGURATION FOR SAG POINT INLET
(GRAVEL BAG BERM)



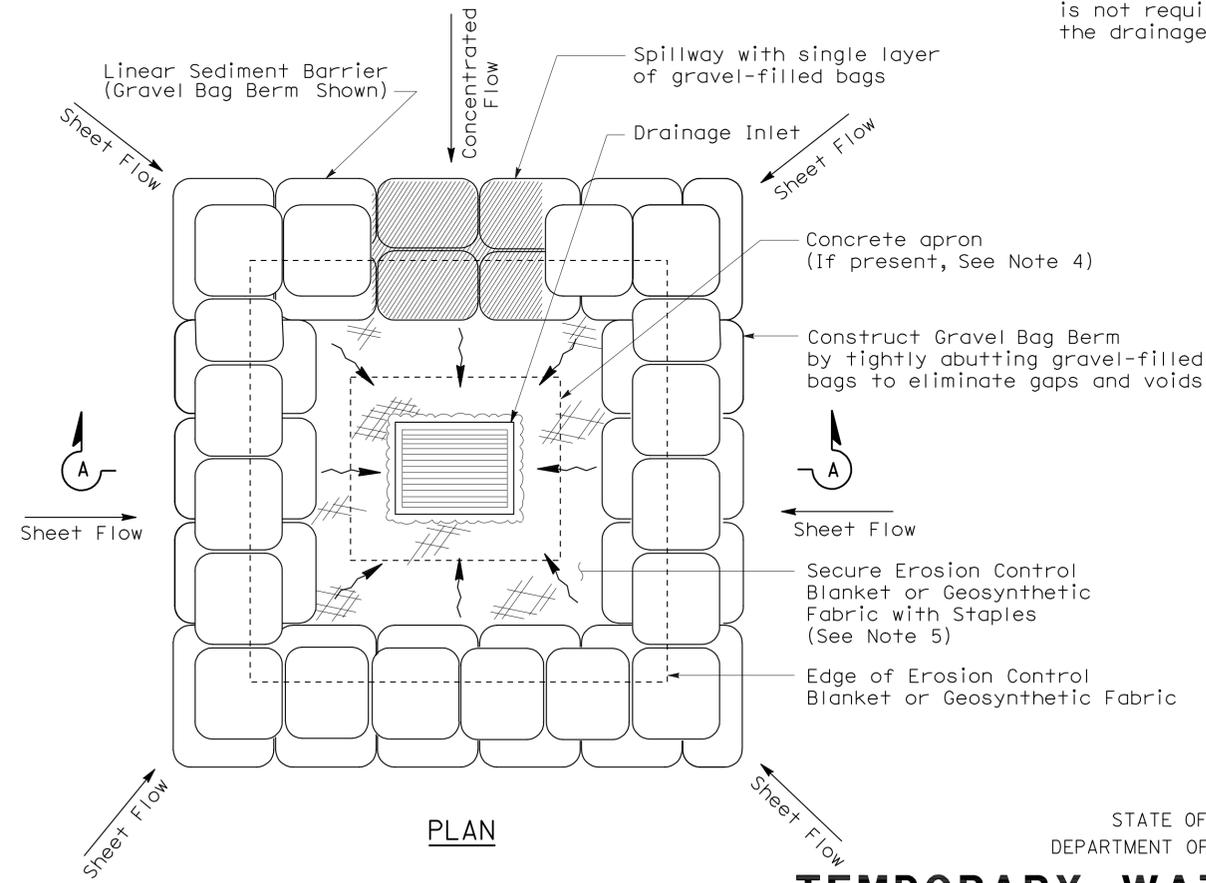
SECTION A-A

NOTES:

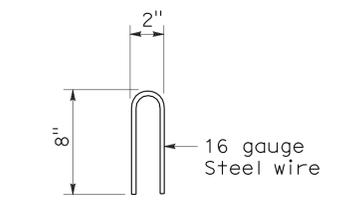
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.



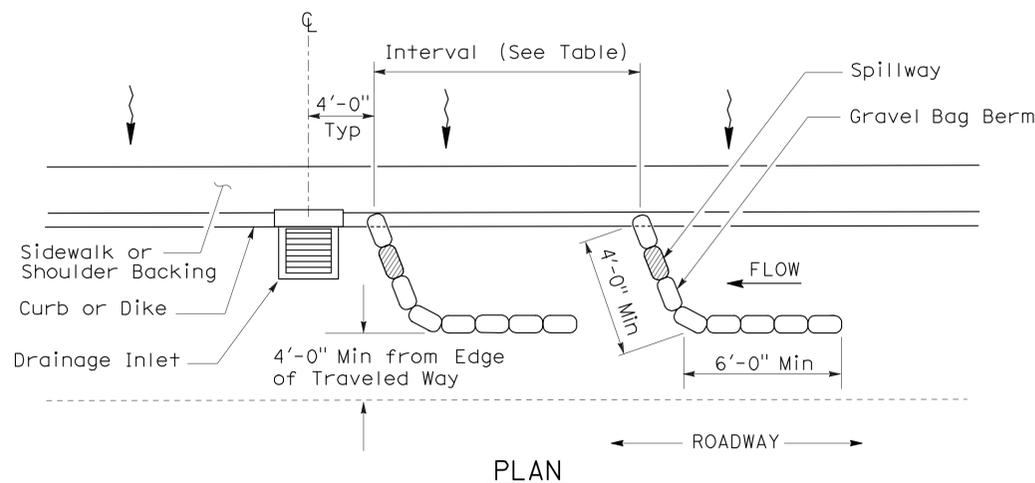
PERSPECTIVE



PLAN
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 3B)



STAPLE DETAIL



PLAN
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 3A)
(GRAVEL BAG BERM)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS
(TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE
 NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS
 THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T62

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum,Lak	29,53, 101	Var	24	31

August 15, 2008
 PLANS APPROVAL DATE

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

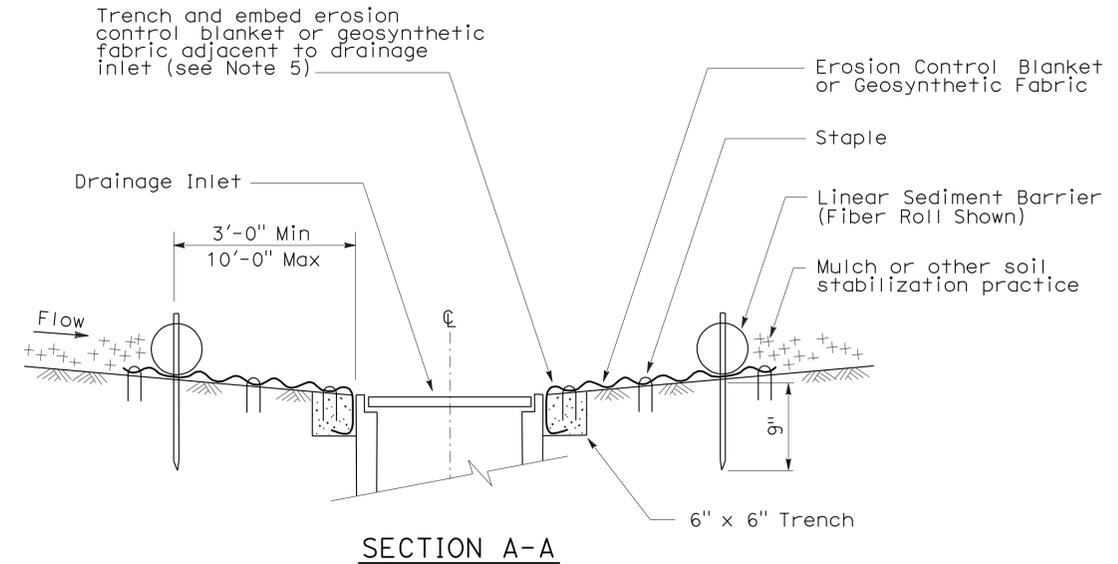
FLEXIBLE SEDIMENT BARRIER SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50'	35'	30'	25'	20'
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6'	6'	6'	6'	6'

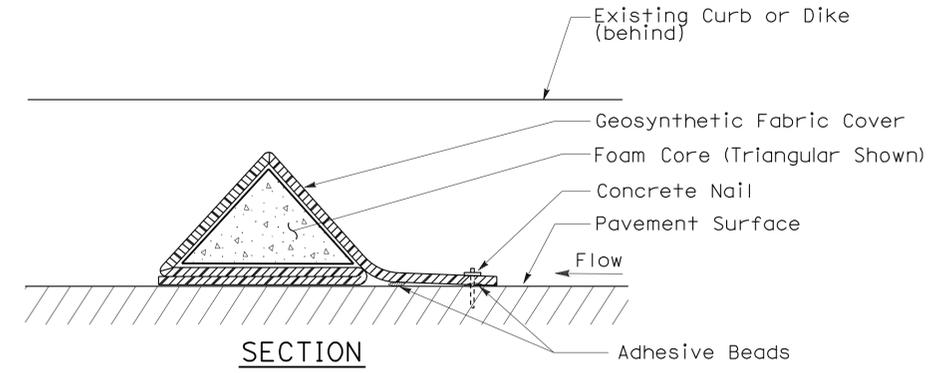
To accompany plans dated 3-12-12

NOTES:

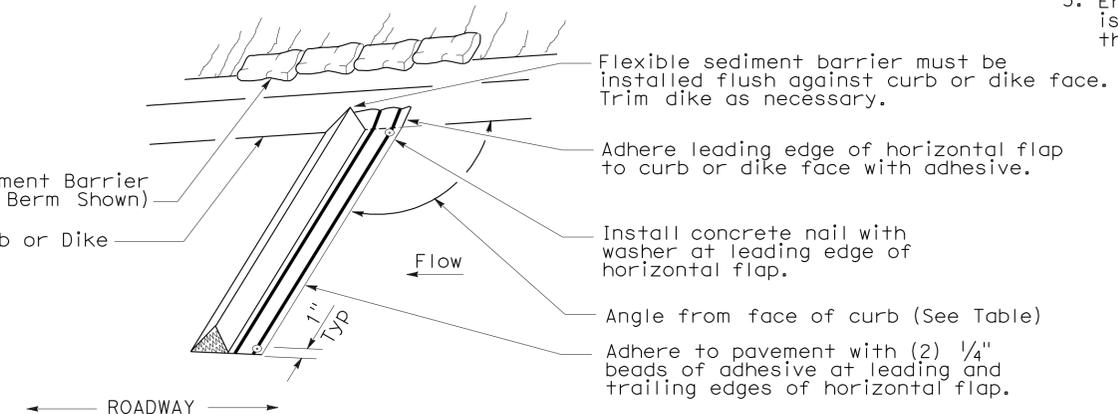
- See Standard Plan T51 for Temporary Silt Fence.
- Dimensions may vary to fit field conditions.
- Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
- Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
- Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated.



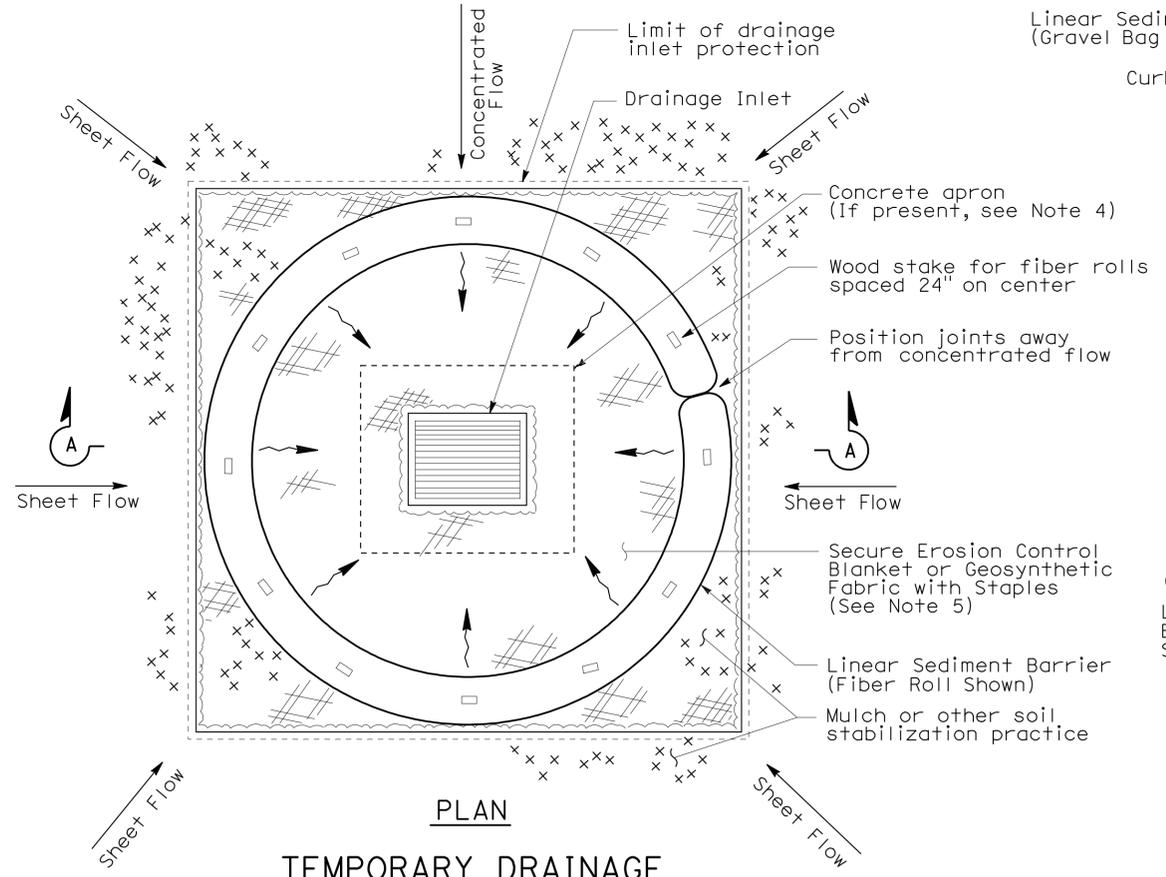
SECTION A-A



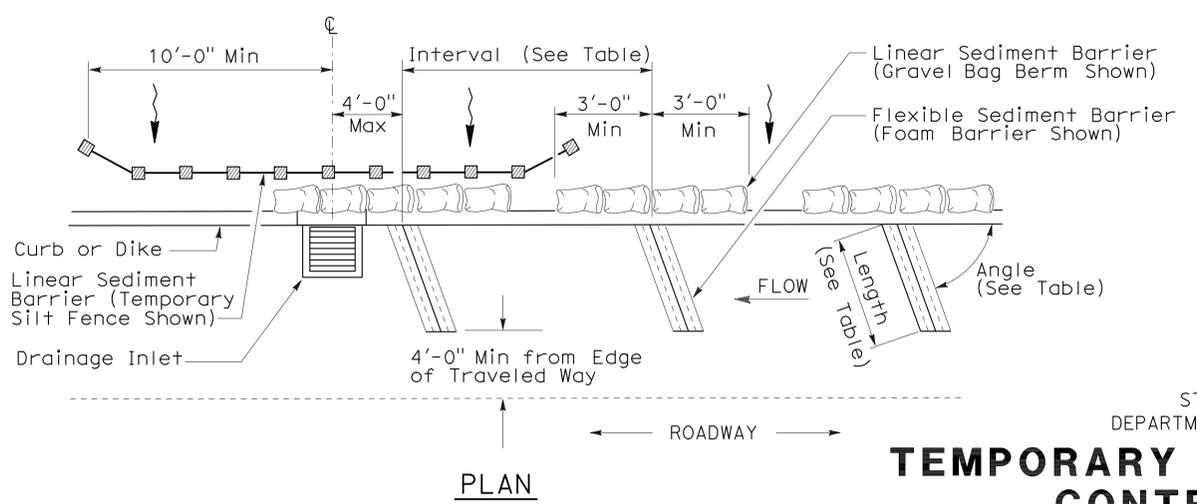
SECTION FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)



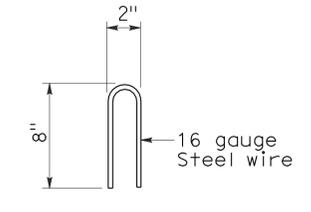
PERSPECTIVE



PLAN TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)



PLAN TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4B) FLEXIBLE SEDIMENT BARRIER



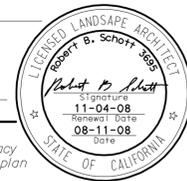
STAPLE DETAIL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)
 NO SCALE
 NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

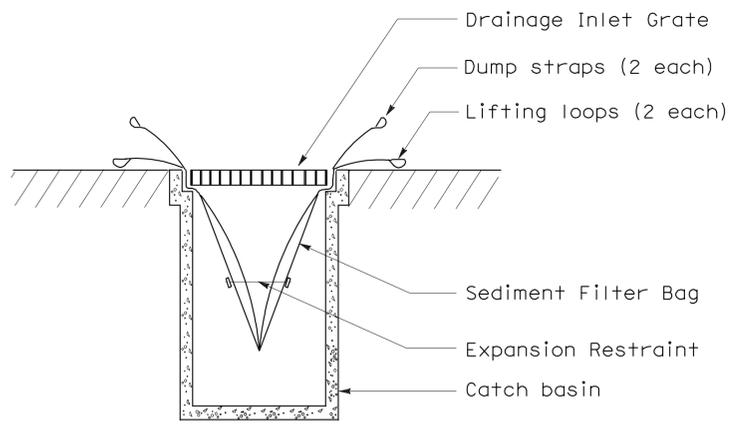
2006 NEW STANDARD PLAN NSP T63

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	25	31

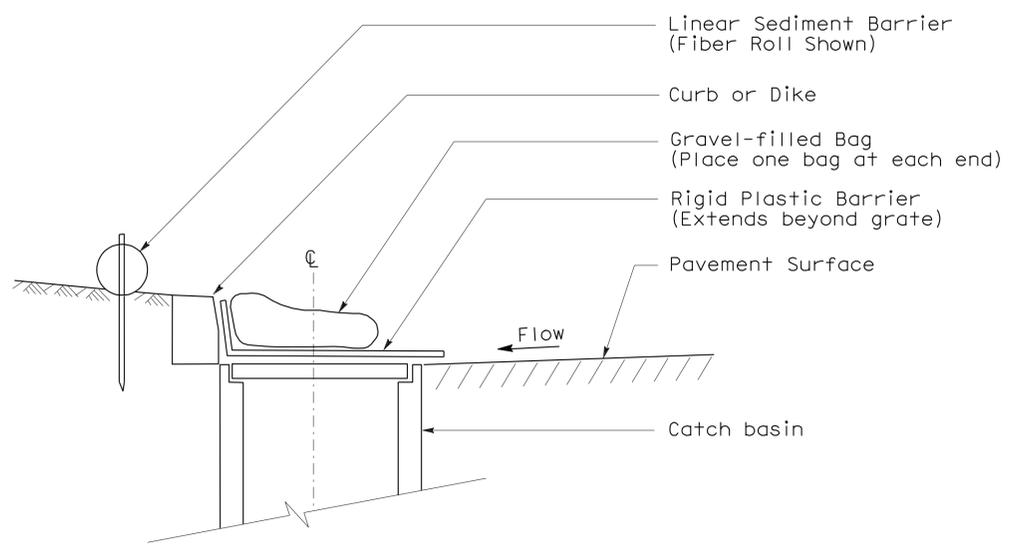
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS APPROVAL DATE
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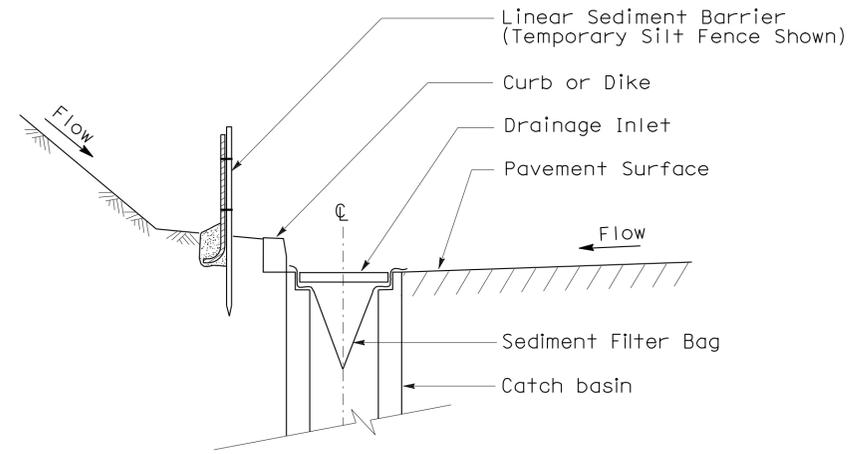
To accompany plans dated 3-12-12



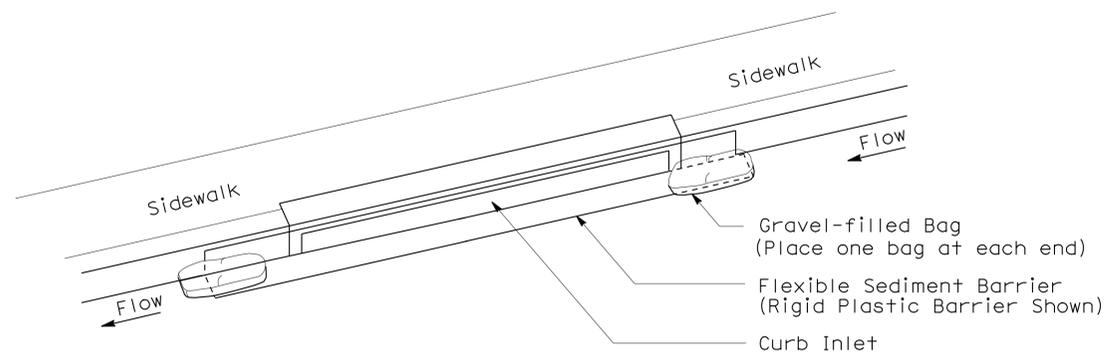
SECTION B-B
SEDIMENT FILTER BAG DETAIL



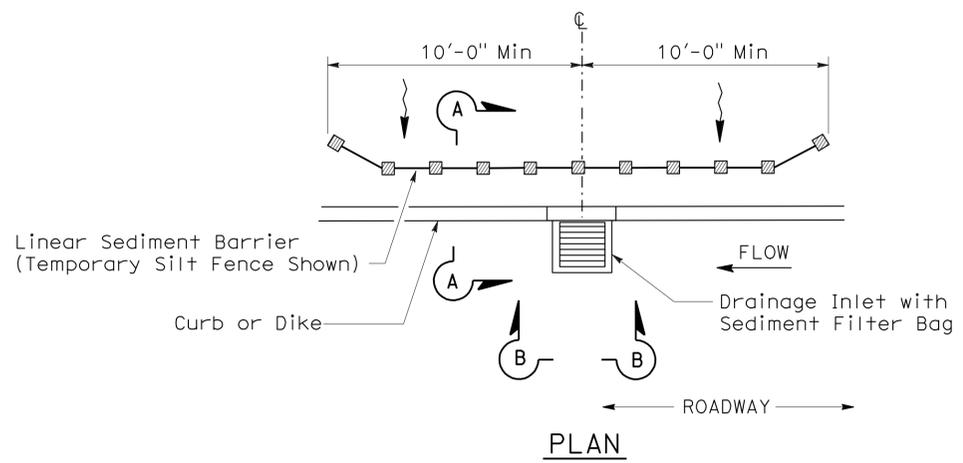
SECTION
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



SECTION A-A



PERSPECTIVE
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6B)
(CURB INLET WITHOUT GRATE)



PLAN
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 5)
(SEDIMENT FILTER BAG)

NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

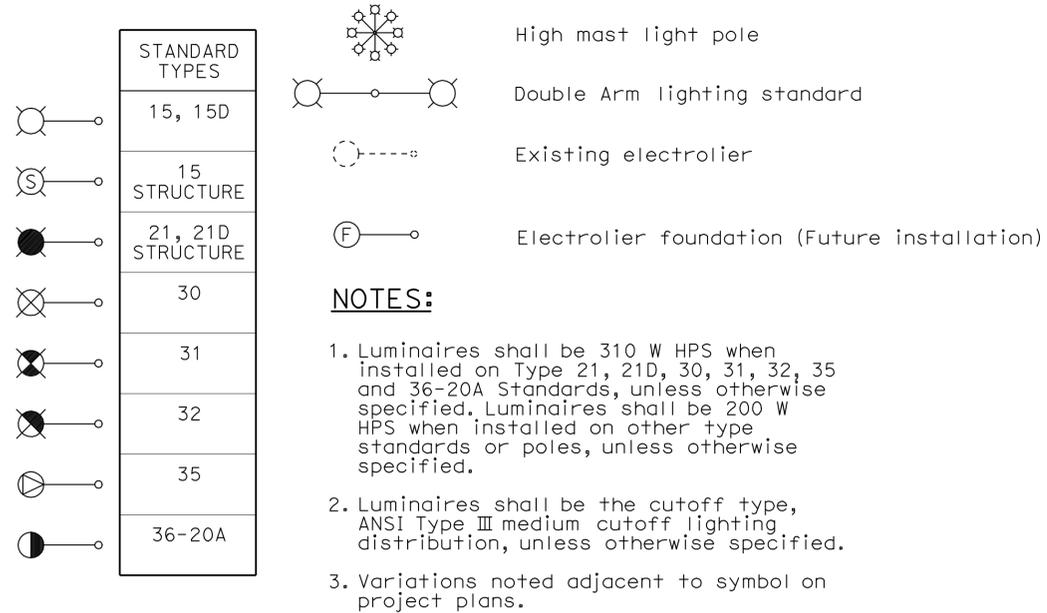
NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T64

2006 NEW STANDARD PLAN NSP T64

ELECTROLIERS



STANDARD NOTES:

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

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	26	31

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

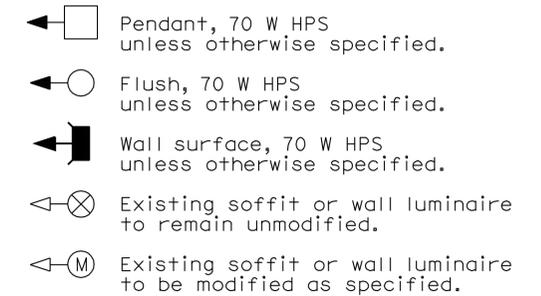
October 5, 2007
PLANS APPROVAL DATE

Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
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 3-12-12

SOFFIT AND WALL MOUNTED LUMINAIRES



NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	27	31

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

October 5, 2007
 PLANS APPROVAL DATE

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To accompany plans dated 3-12-12

CONDUIT

PROPOSED	EXISTING	
		Lighting Conduit, unless otherwise indicated or noted
		Traffic signal conduit
		Communication conduit
		Telephone conduit
		Fire alarm conduit
		Fiber optic conduit
		Conduit termination
		Conduit riser in/on structure or service pole

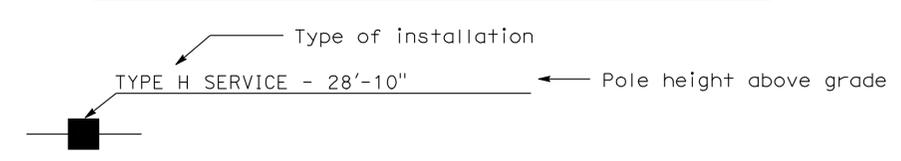
SIGNAL EQUIPMENT

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

SERVICE EQUIPMENT

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

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

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

SIGNAL EQUIPMENT Cont

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

NOTES:

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

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

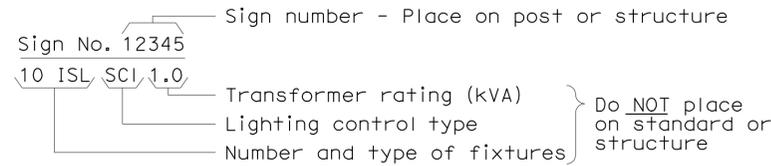
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

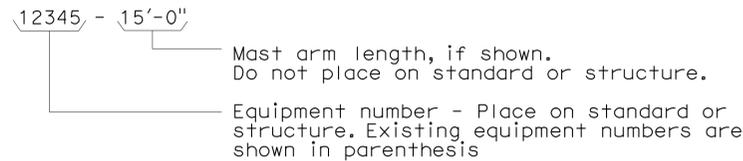
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

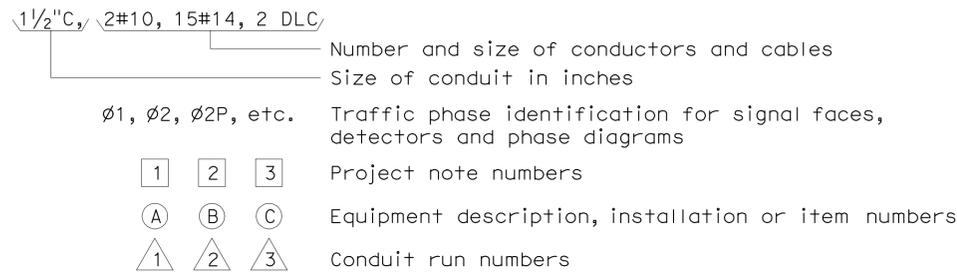
ILLUMINATED SIGN IDENTIFICATION NUMBER:



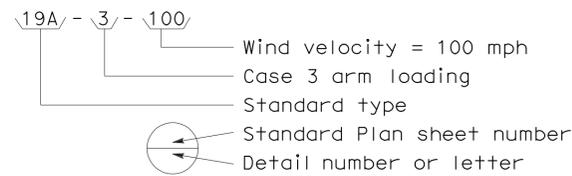
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



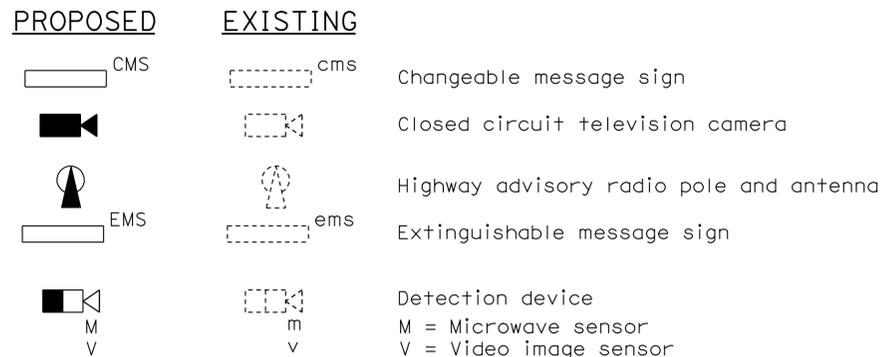
CONDUIT AND CONDUCTOR IDENTIFICATION:



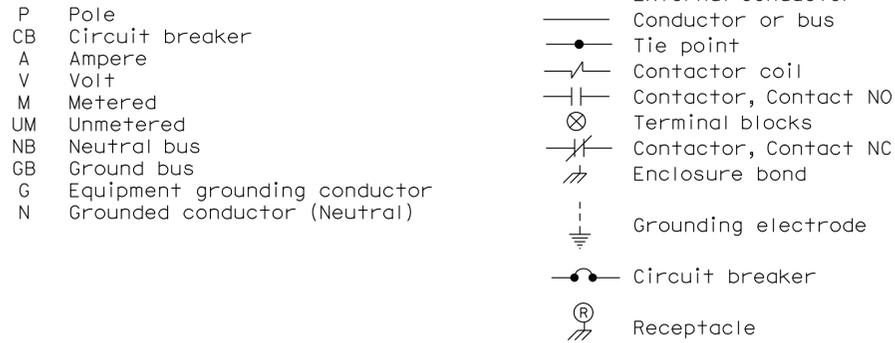
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



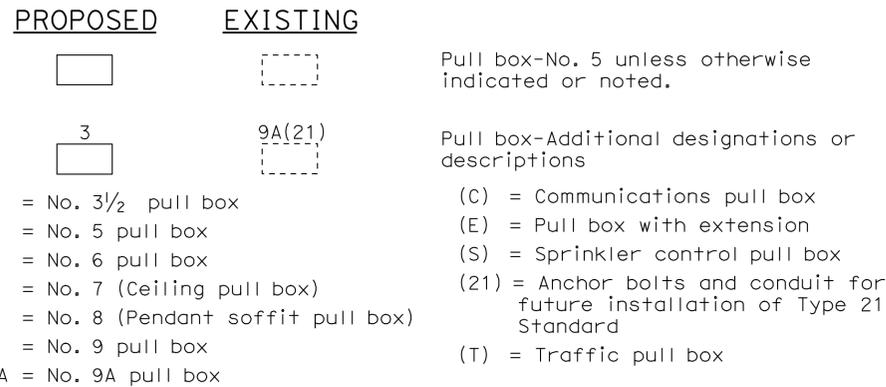
MISCELLANEOUS EQUIPMENT



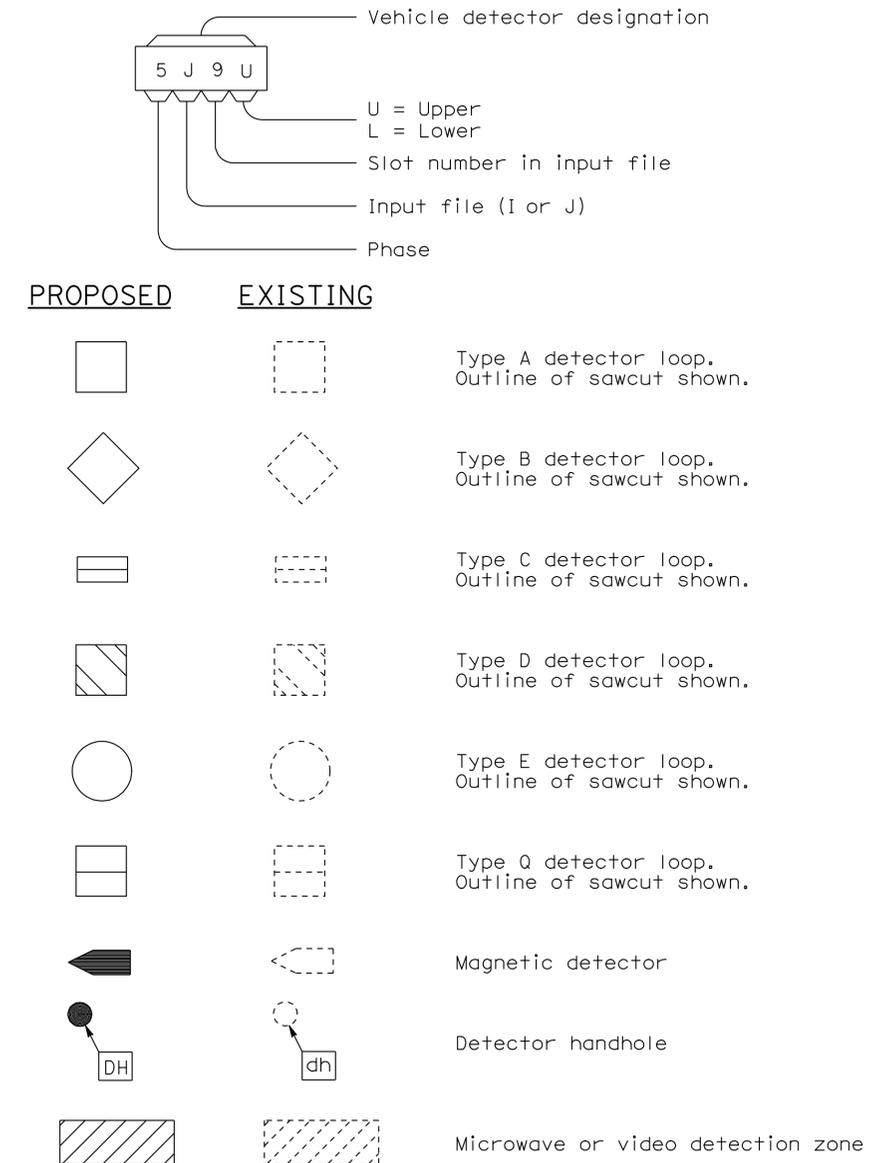
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

2006 REVISED STANDARD PLAN RSP ES-1C

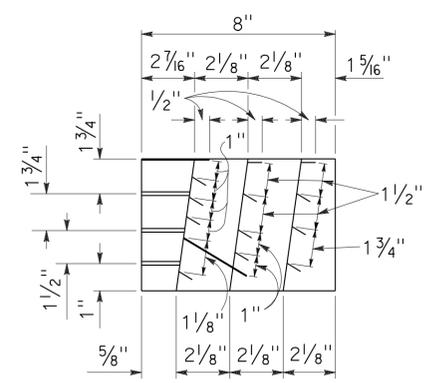
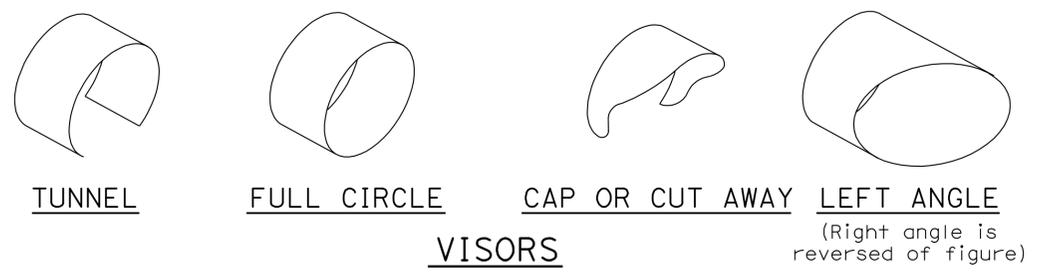
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	29	31

REGISTERED ELECTRICAL ENGINEER
Jeffery G. McRae
 No. E14512
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

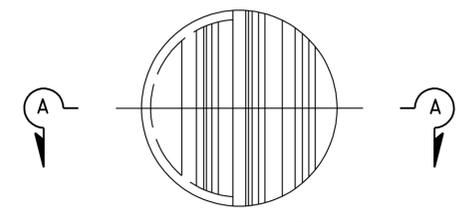
June 6, 2008
 PLANS APPROVAL DATE

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To accompany plans dated 3-12-12

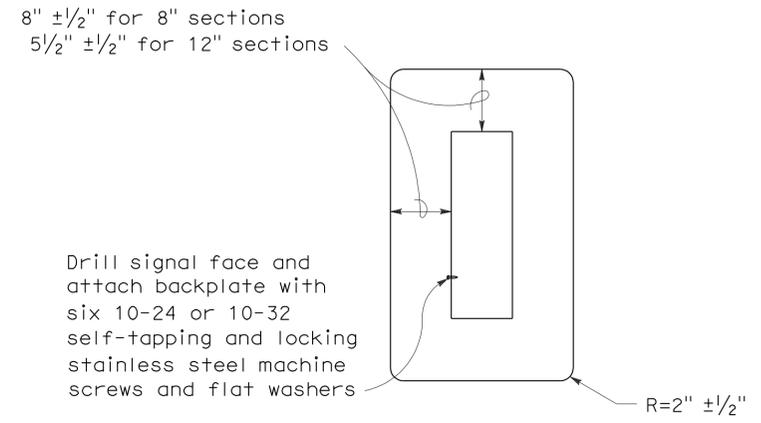


SECTION A-A



FRONT VIEW
DIRECTIONAL LOUVER

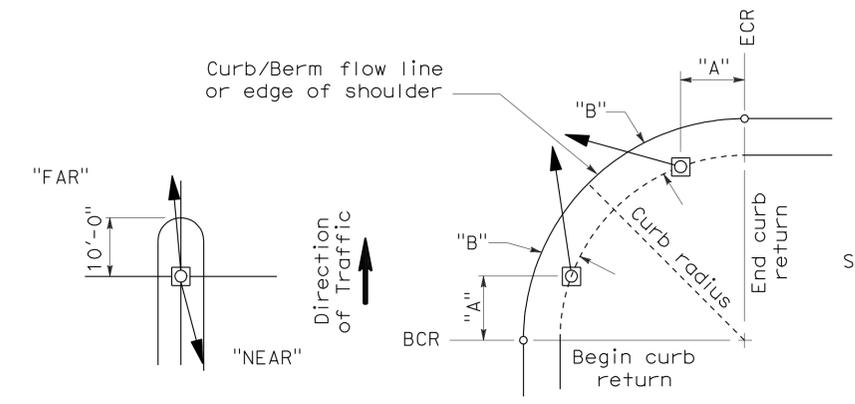
Directional louvers shall be oriented as directed by the Engineer and secured in place with one plated brass machine screw and nut.



8" AND 12" SECTIONS

BACKPLATE

1/16" minimum thickness
 3001-14 aluminum, or plastic when specified

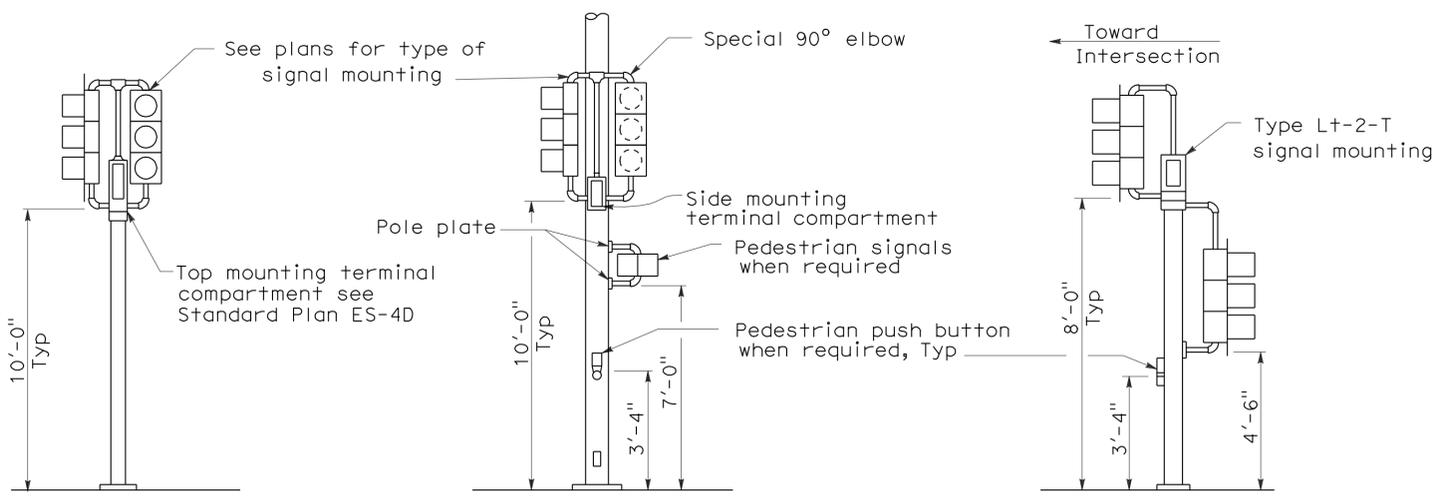


See Note 2

NOTES:

1. Typical signal pole placement unless dimensioned on plans.
2. For "A" and "B" dimensions, see Pole Schedule, or as directed by the Engineer.

SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS



TOP MOUNTED SIGNALS (TV)

Type 1-A, 1-B, 1-C and 1-D standard as indicated on the plans

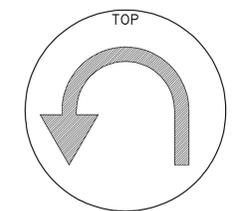
SIDE MOUNTED SIGNALS (SV AND SP)

Normally used on standards with luminaire or signal mast arm

LEFT TURN LANE SIGNAL

Type 1-A, 1-B, 1-C and 1-D standard as indicated on plans

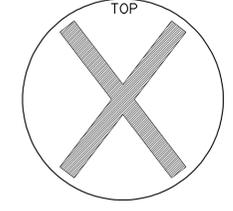
TYPICAL SIGNAL INSTALLATIONS



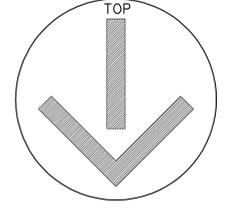
U-TURN SIGNAL FACE



BICYCLE SIGNAL FACE



LANE CONTROL SIGNAL FACE



LANE CONTROL SIGNAL FACE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

NO SCALE

RSP ES-4C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN ES-4C DATED MAY 1, 2006 - PAGE 420 OF THE STANDARD PLANS BOOK DATED MAY 2006.

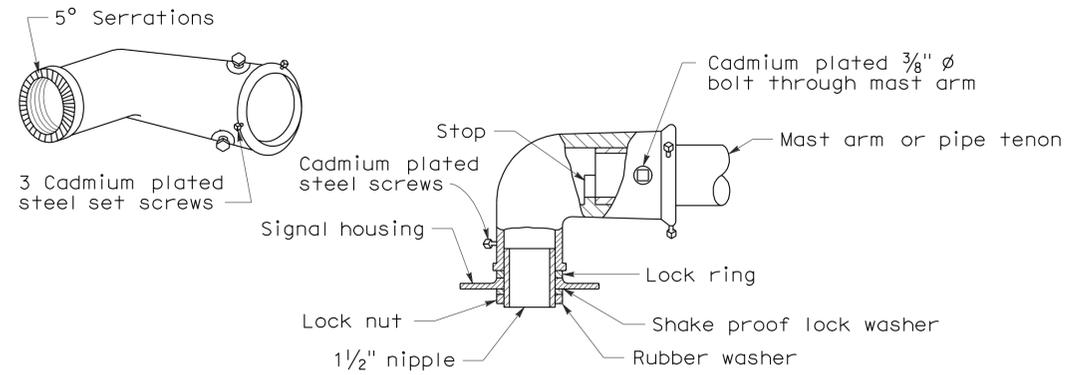
REVISED STANDARD PLAN RSP ES-4C

2006 REVISED STANDARD PLAN RSP ES-4C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum,Lak	29,53,101	Var	30	31

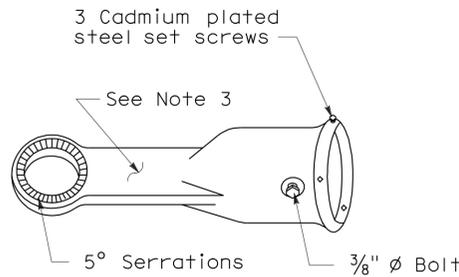
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
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 REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 3-12-12



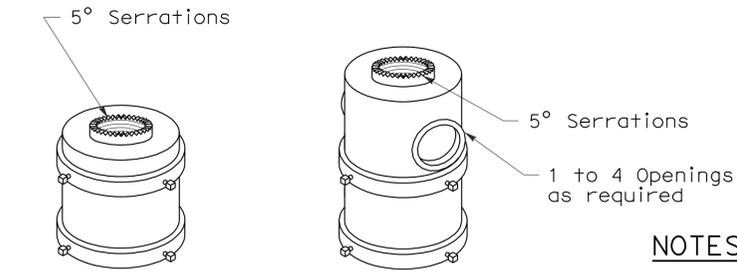
MAST ARM MOUNTING - TYPE "MAT"

For 2 NPS pipe, see Note 1.



MAST ARM MOUNTING - TYPE "MAS"

For 2 NPS pipe. See Note 1.

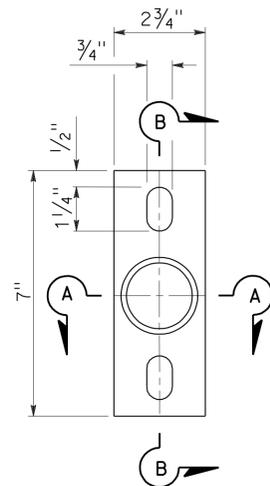


For one mounting For multiple mountings

TOP MOUNTINGS

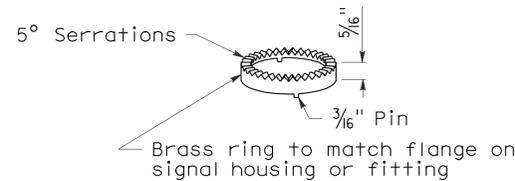
For 4 NPS pipe, see Note 2.

SIGNAL SLIP FITTERS



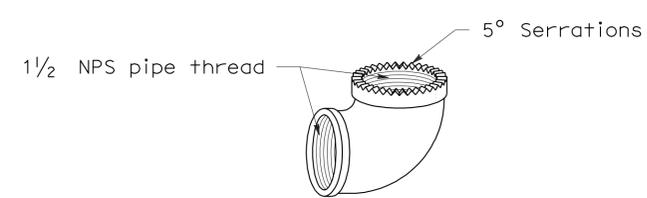
POLE PLATE

For side mountings



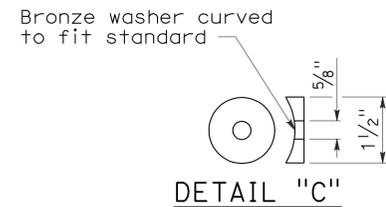
LOCK RING

Use where locking ring is not integral with signal housing or fitting.



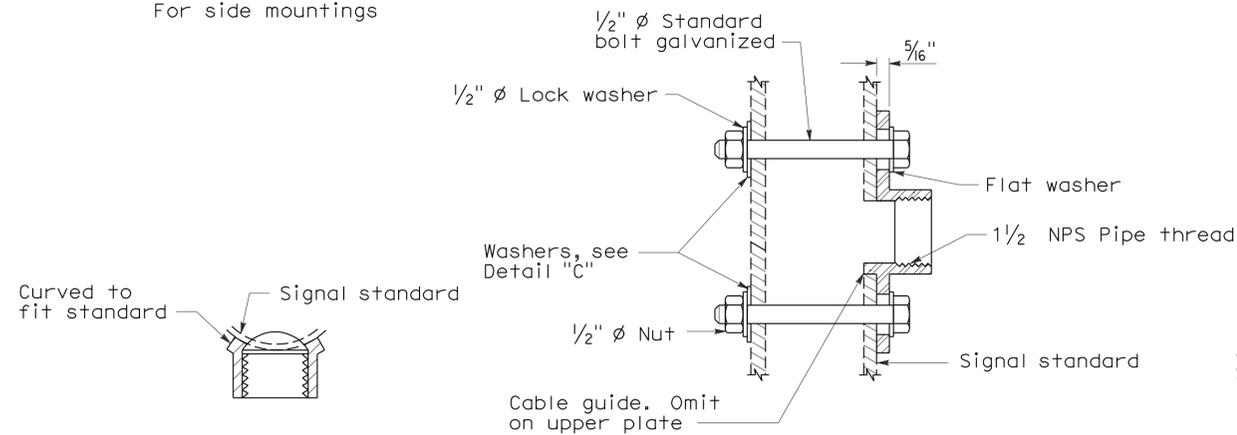
SPECIAL 90° ELBOW

One for each signal head, except those with special slip fitter mounting

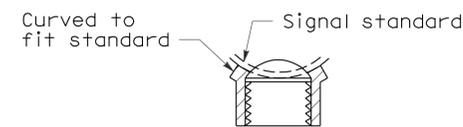


DETAIL "C"

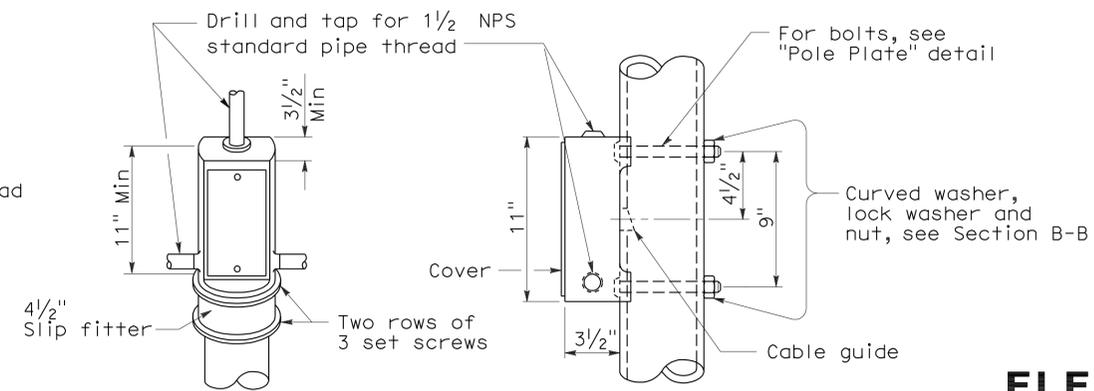
MISCELLANEOUS MOUNTING HARDWARE



SECTION B-B



SECTION A-A



TOP MOUNTING

SIDE MOUNTING

TERMINAL COMPARTMENTS

ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

NO SCALE

RSP ES-4D DATED June 6, 2008 SUPERSEDES STANDARD PLAN ES-4D DATED MAY 1, 2006 - PAGE 421 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-4D

2006 REVISED STANDARD PLAN RSP ES-4D

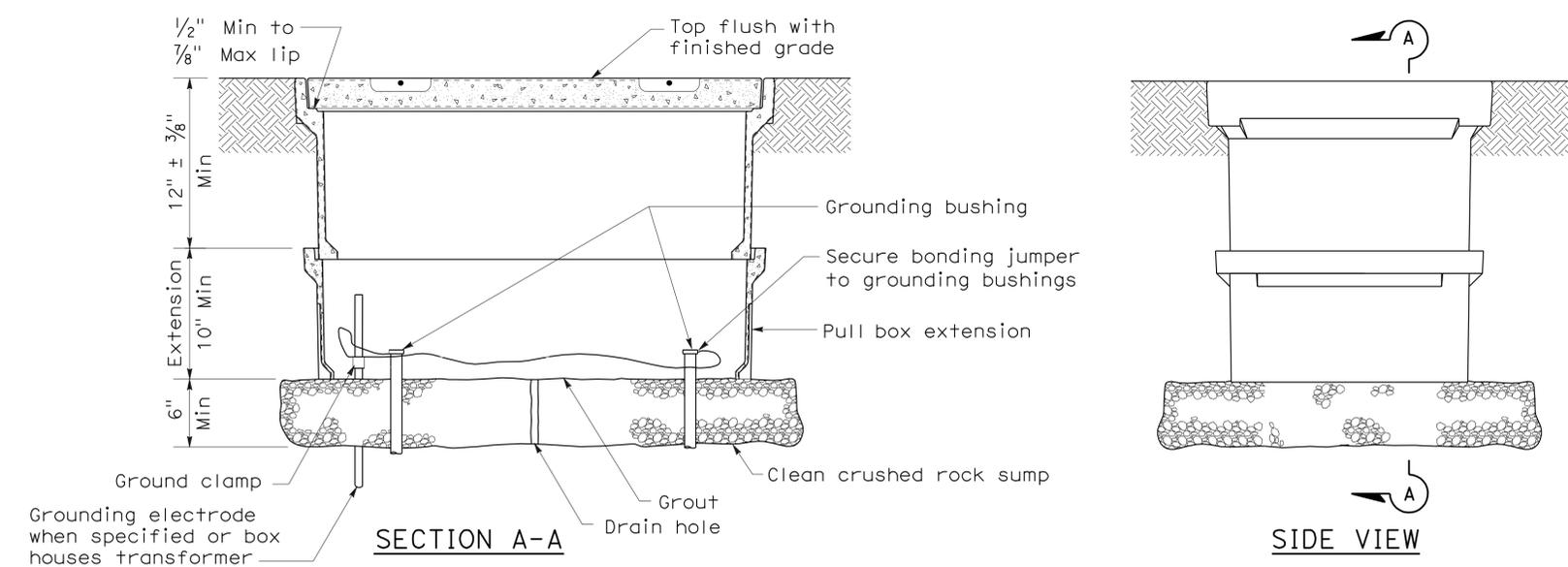
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum,Lak	29,53, 101	Var	31	31

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 Exp. 6-30-12
 ELECTRICAL
 STATE OF CALIFORNIA

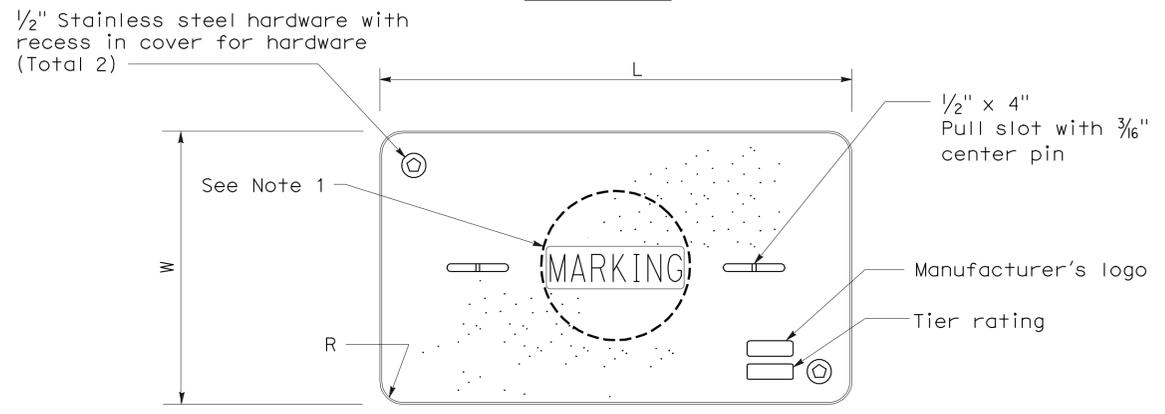
January 20, 2012
 PLANS APPROVAL DATE

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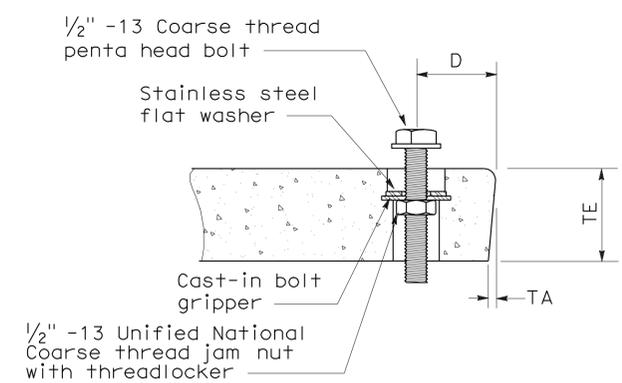
To accompany plans dated 3-12-12



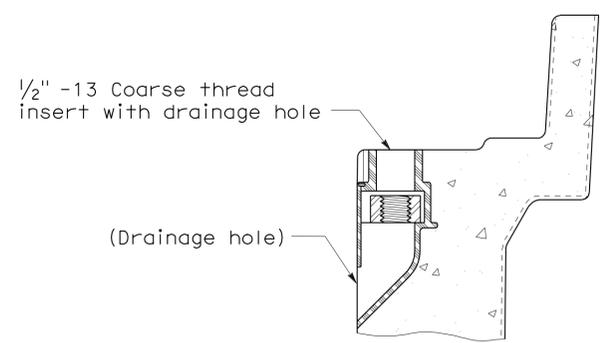
INSTALLATION DETAILS
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
(Or similar)



TYPICAL THREADED INSERT
(Or similar)

NOTES ON PULL BOXES:

- Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
 - No. 3/2 pull box.
 - "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - No. 5, 6, 9 or 9A pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATIONS" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communication line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
- The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions (L and W) plus 1/8" or greater.
- Covers and boxes must be interchangeable with California Standard. When interchanged with a standard, the top surfaces must be flush within 1/8". Top outside radius of covers and pull boxes must have a 1/8" radius.
- Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.

PULL BOX	PULL BOX			COVER						
	Minimum Depth Box	Minimum Depth Extension	Maximum Weight	L	W	R	TE	TA	D	Maximum Weight
No. 3/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(PULL BOX)
 NO SCALE

NSP ES-8A DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP ES-8A