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

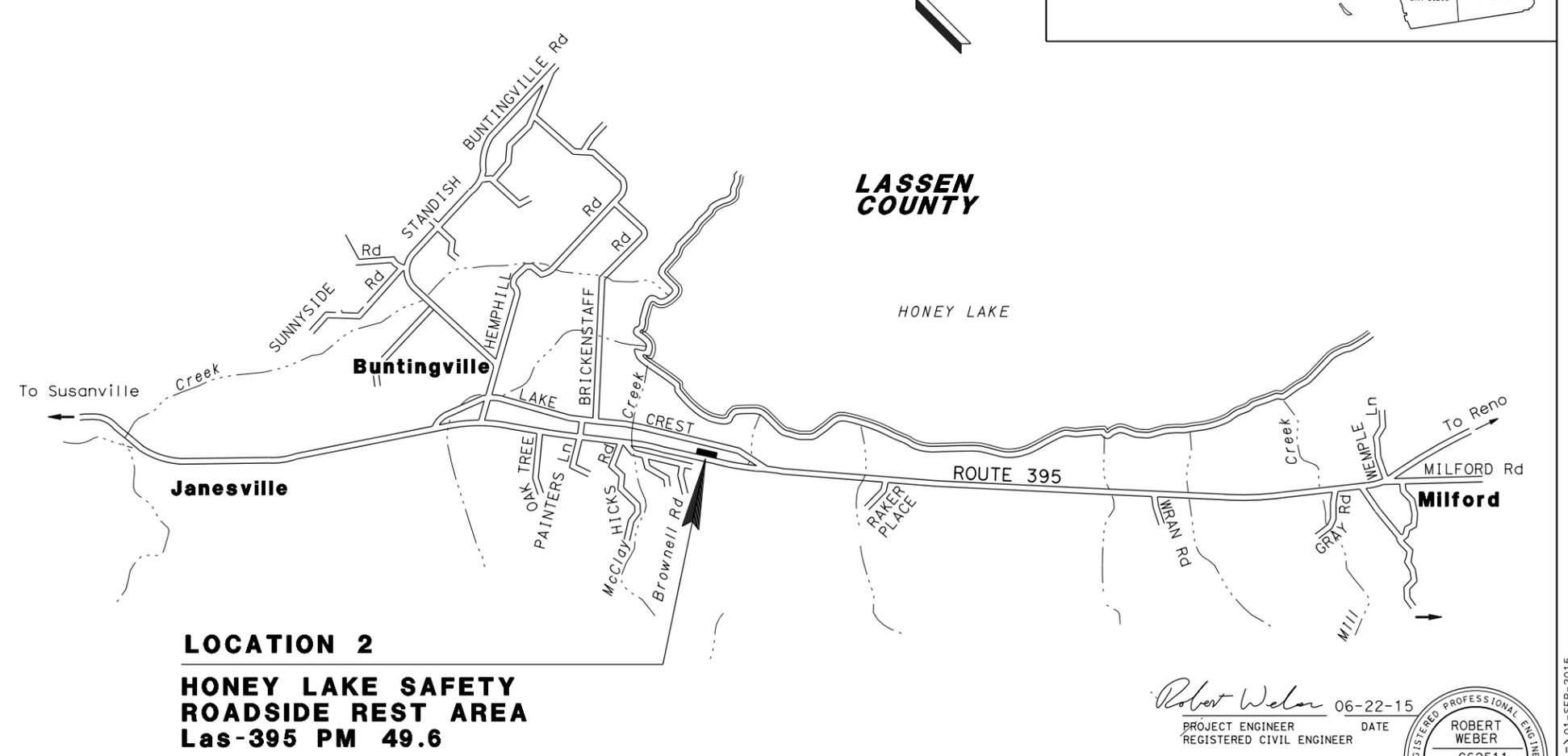
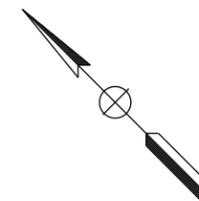
STATE OF CALIFORNIA **ACNHPG-000C(421)E**

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY
IN SACRAMENTO AND LASSEN COUNTIES
ON ROUTE 5 AT 0.1 MILE SOUTH OF ROUTE 275
AND ON ROUTE 395
AT HONEY LAKE SAFETY ROADSIDE REST AREA

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	1	106



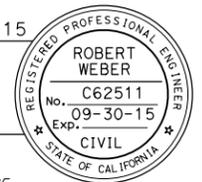
LOCATION 2
HONEY LAKE SAFETY ROADSIDE REST AREA
Las-395 PM 49.6

NO SCALE

Robert Weber 06-22-15
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER

June 22, 2015
 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.	02-4E6904
PROJECT ID	0212000033

P:\proj\11\02\4E6904\plans\0212000033.dgn

PROJECT MANAGER	ROB BURNETT
DESIGN ENGINEER	STEVE TOPAL

NOTES:

1. SEE CONSTRUCTION DETAILS FOR LOCATION AND ELEVATION DATA.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

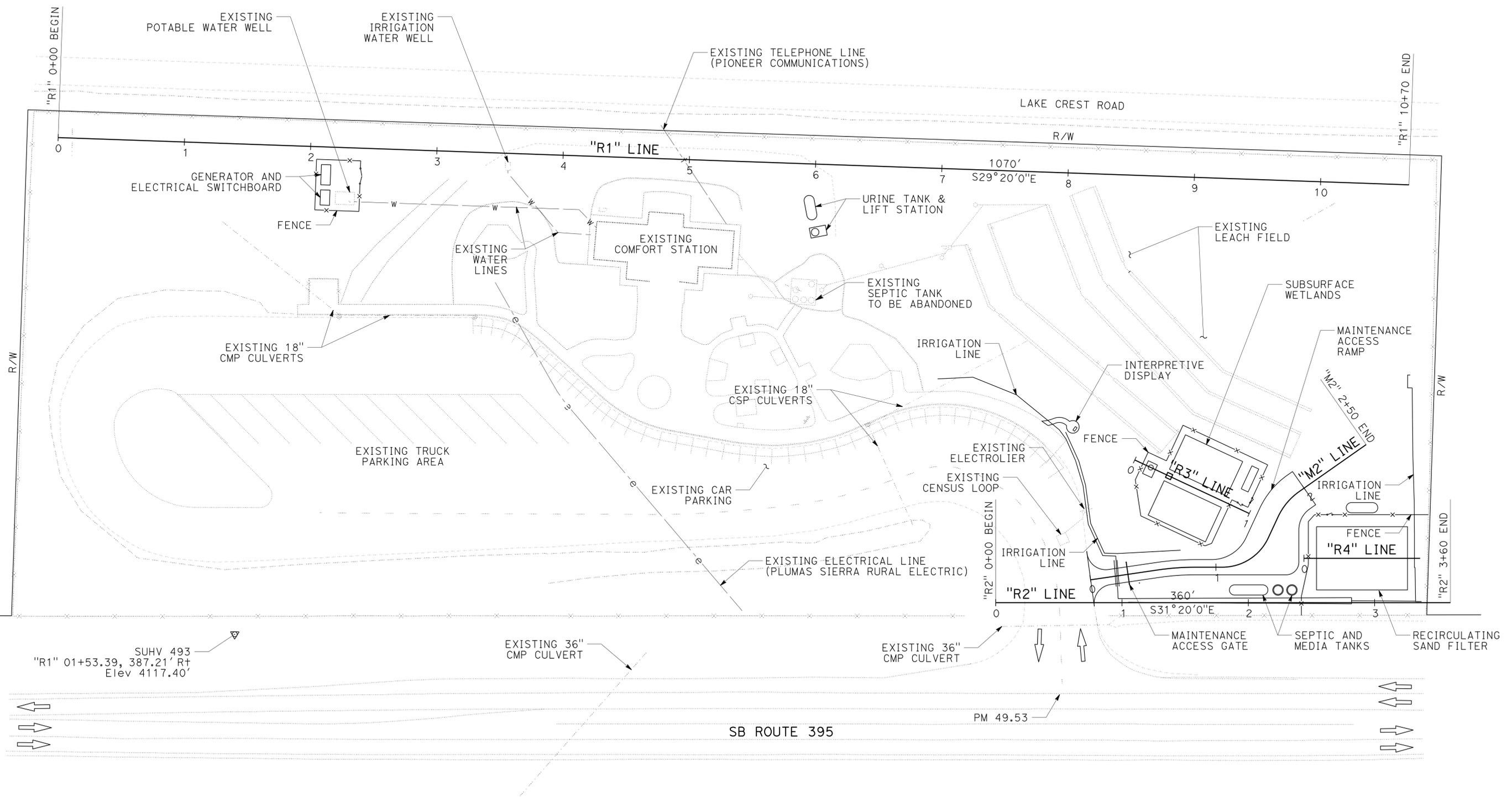
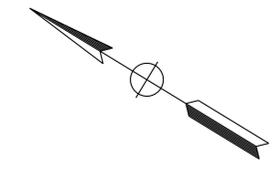
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	3	106

Robert Weber 06-22-15
 REGISTERED CIVIL ENGINEER DATE

06-22-15
 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
 ROBERT WEBER
 No. C62511
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA



**HONEY LAKE
 SAFETY ROADSIDE REST AREA**

LAYOUT
 SCALE: 1" = 40'
L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 FUNCTIONAL SUPERVISOR STEVEN TOPAL
 CALCULATED/DESIGNED BY
 CHECKED BY
 ROBERT WEBER
 RUSSELL FLOOD
 REVISED BY
 DATE REVISED
 USERNAME => s115152
 DGN FILE => 24e690ea001.dgn
 BORDER LAST REVISED 7/2/2010
 UNIT 0319
 PROJECT NUMBER & PHASE 02120000331

LAST REVISION DATE PLOTTED => 26-JUN-2015
 06-24-15 TIME PLOTTED => 1:3:37

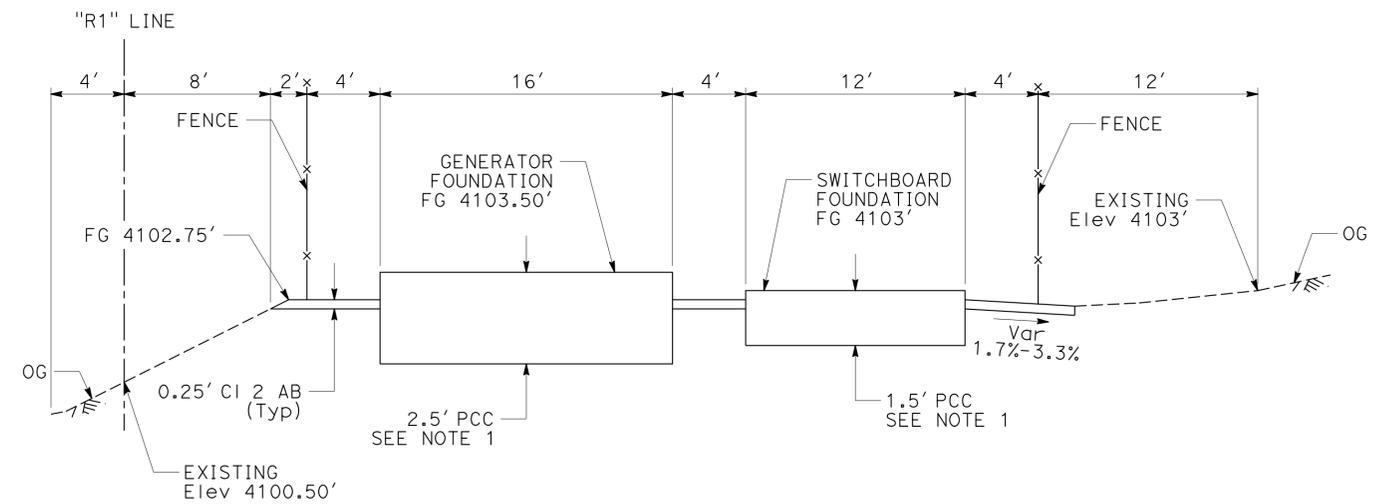
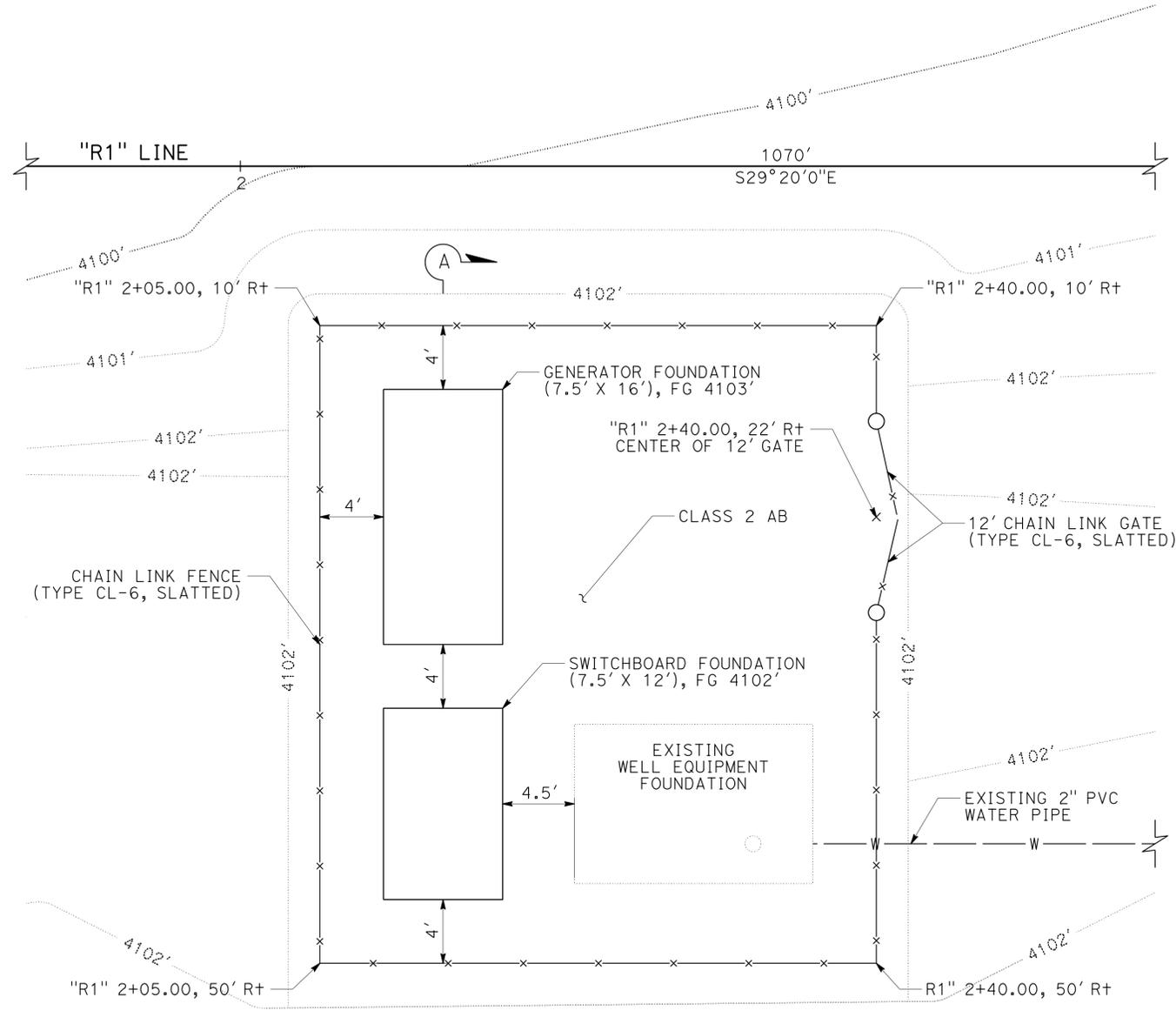
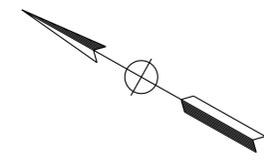
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	4	106

<i>Robert Weber</i>	06-22-15
REGISTERED CIVIL ENGINEER	DATE
06-22-15	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
ROBERT WEBER
No. C62511
Exp. 9-30-15
CIVIL

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

NOTES:
 1. FOR BUILDING WORK DETAILS, SEE SANITARY SEWER, WATER AND ELECTRICAL SHEETS.



PLAN
FENCED ENCLOSURE FOR
ELECTRICAL SWITCHBOARD, GENERATOR
AND EXISTING POTABLE WATER WELL
 SCALE: 1" = 5'

SECTION A-A
 NO SCALE

CONSTRUCTION DETAILS
 SCALE: AS SHOWN

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 Et Caltrans
 FUNCTIONAL SUPERVISOR: STEVEN TOPAL
 CALCULATED/DESIGNED BY: ROBERT WEBER
 CHECKED BY: RUSSELL FLOOD
 REVISIONS: REVISED BY: DATE REVISED:
 USERNAME => s115152
 DGN FILE => 24e690ga001.dgn
 BORDER LAST REVISED 7/2/2010
 P:\proj\1\02\4E690\plans\pse\24e690ga001.dgn



LAST REVISION: DATE PLOTTED => 26-JUN-2015
 TIME PLOTTED => 1:3:37

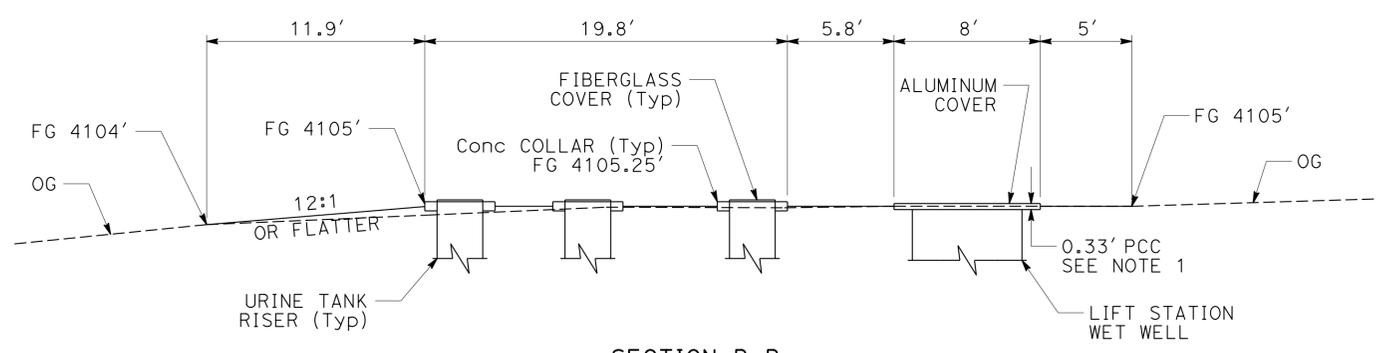
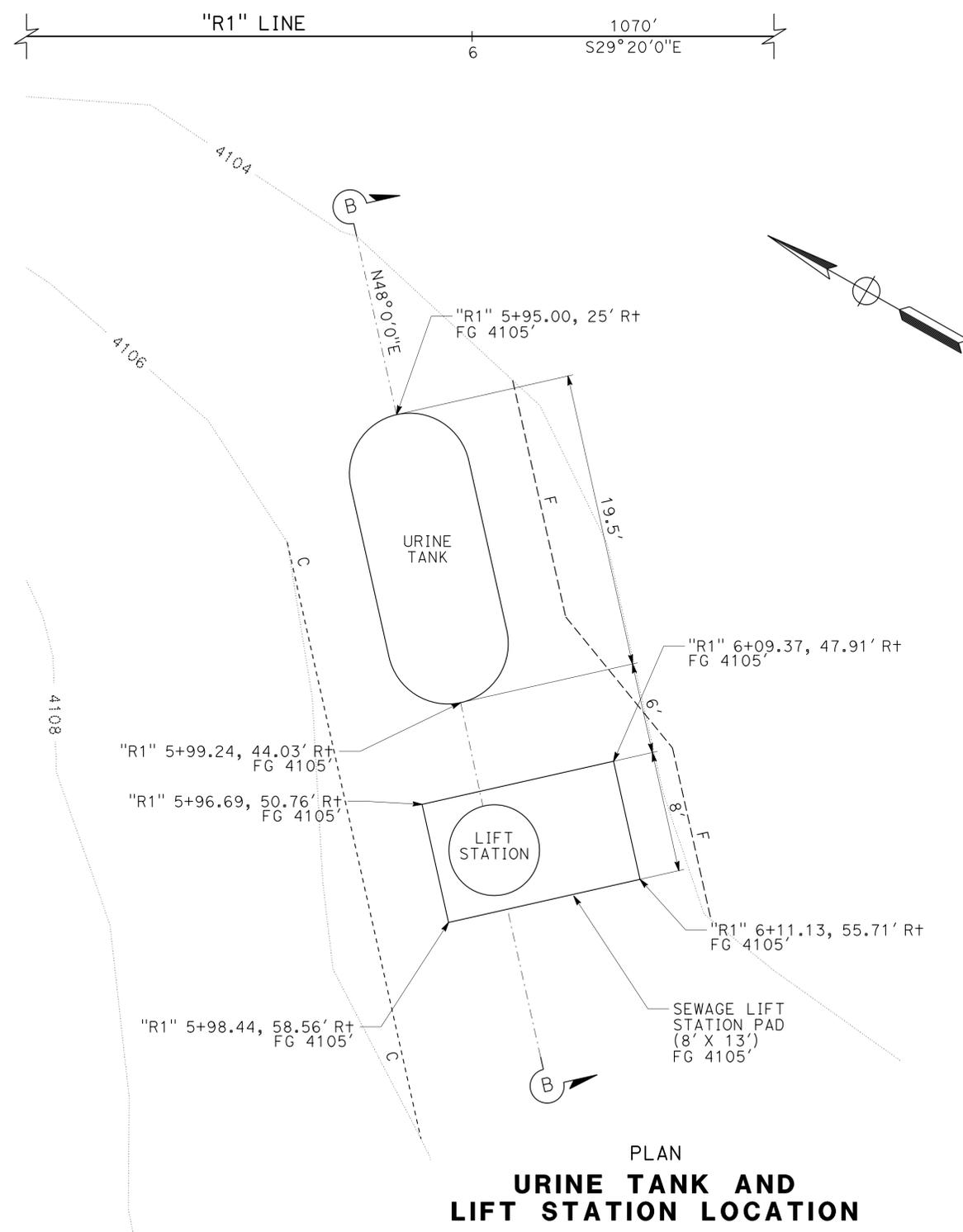
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	5	106

<i>Robert Weber</i>	06-22-15
REGISTERED CIVIL ENGINEER	DATE
06-22-15	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
ROBERT WEBER
No. C62511
Exp. 9-30-15
CIVIL

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NOTES:
 1. FOR BUILDING WORK DETAILS, SEE SANITARY SEWER, WATER AND ELECTRICAL SHEETS.



**SECTION B-B
 URINE TANK AND
 LIFT STATION GRADING**

**PLAN
 URINE TANK AND
 LIFT STATION LOCATION**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 FUNCTIONAL SUPERVISOR: STEVEN TOPAL
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 ROBERT WEBER
 RUSSELL FLOOD
 REVISED BY: [blank]
 DATE REVISED: [blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	11	106

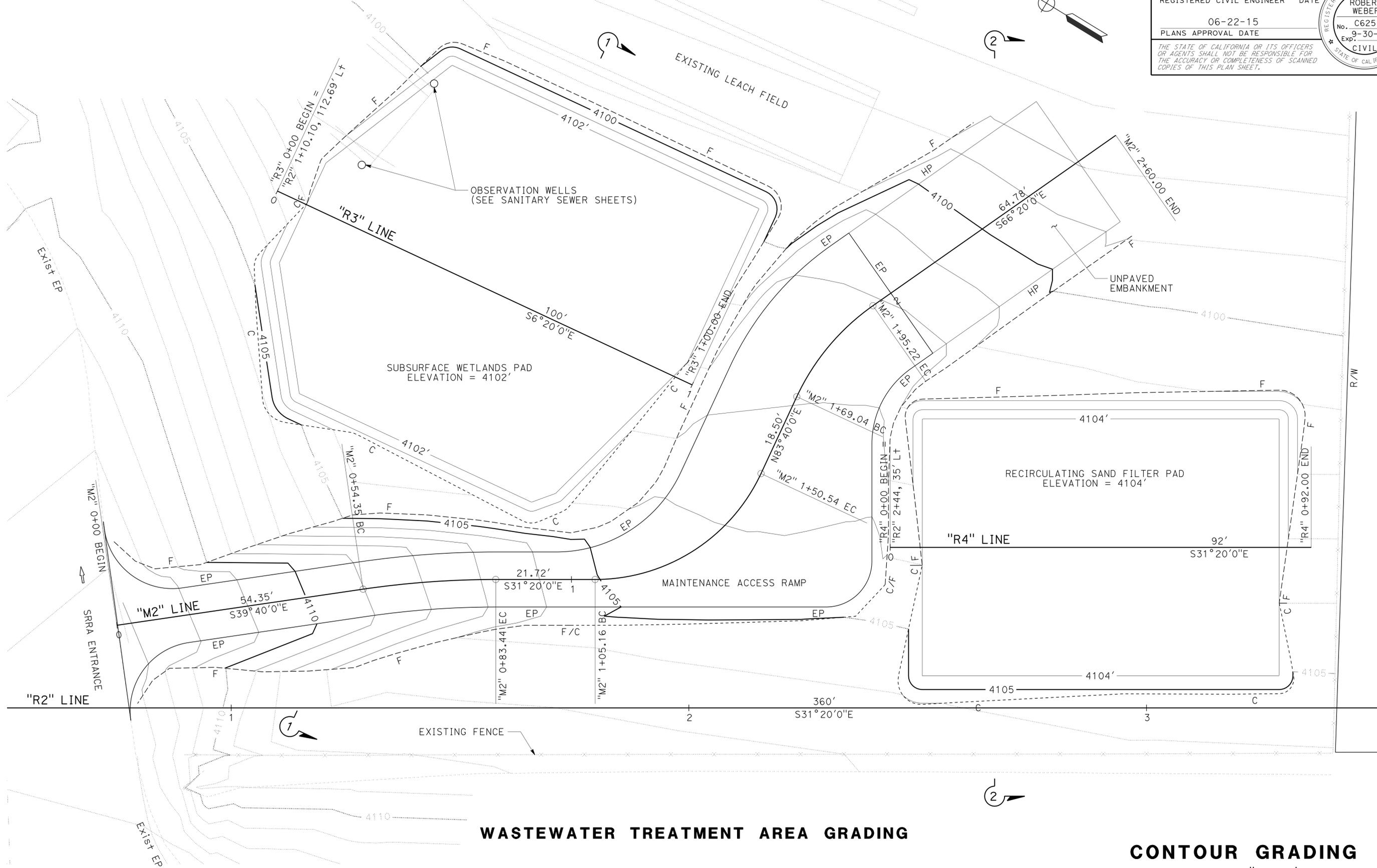
Robert Weber 06-22-15
 REGISTERED CIVIL ENGINEER DATE
 06-22-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ROBERT WEBER
 No. C62511
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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

NOTES:

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



WASTEWATER TREATMENT AREA GRADING

CONTOUR GRADING

SCALE: 1" = 10'

APPROVED FOR CONTOUR GRADING WORK ONLY

G-1

REVISION	DATE PLOTTED => 26-JUN-2015
06-24-15	TIME PLOTTED => 1:37

P:\proj\1\02\4E690\plans\pse\24e690ha001.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 FUNCTIONAL SUPERVISOR: STEVEN TOPAL
 CALCULATED/DESIGNED BY: ROBERT WEBER
 CHECKED BY: RUSSELL FLOOD
 REVISIONS: ROBERT WEBER, RUSSELL FLOOD
 REVISIONS: DATE REVISIONS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	13	106

Robert Weber 06-22-15
REGISTERED CIVIL ENGINEER DATE

06-22-15
PLANS APPROVAL DATE

ROBERT WEBER
No. C62511
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

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

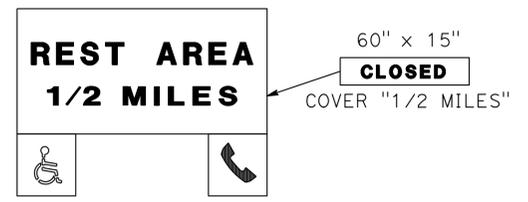
- NOTES:**
1. ATTACH TEMPORARY SIGN PANELS TO EXISTING ROADSIDE SIGN PANELS.
 2. EXACT PCMS LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 3. SEE TRAFFIC HANDLING PLAN FOR PCMS MESSAGING.

**CONSTRUCTION AREA SIGNS
(STATIONARY MOUNTED)**

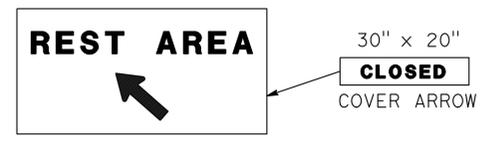
SIGN No.	CODE	PANEL SIZE IN INCHES	SIGN MESSAGE	No. OF SIGNS
① & ⑤	SPECIAL	24" x 8"	CLOSED	2
②	SPECIAL	60" x 15"	CLOSED	1
③ & ④	SPECIAL	30" x 20"	CLOSED	2
⑥	SPECIAL	72" x 15"	71 MILES	1



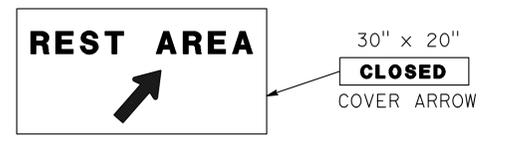
SIGN No. ①
SB 395
PM 97.48
LASSEN COUNTY



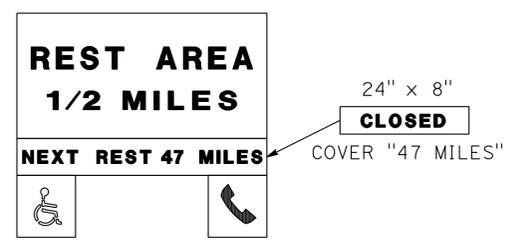
SIGN No. ②
SB 395
PM 50.02
LASSEN COUNTY



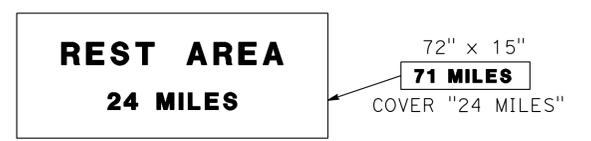
SIGN No. ③
SB 395
PM 49.65
LASSEN COUNTY



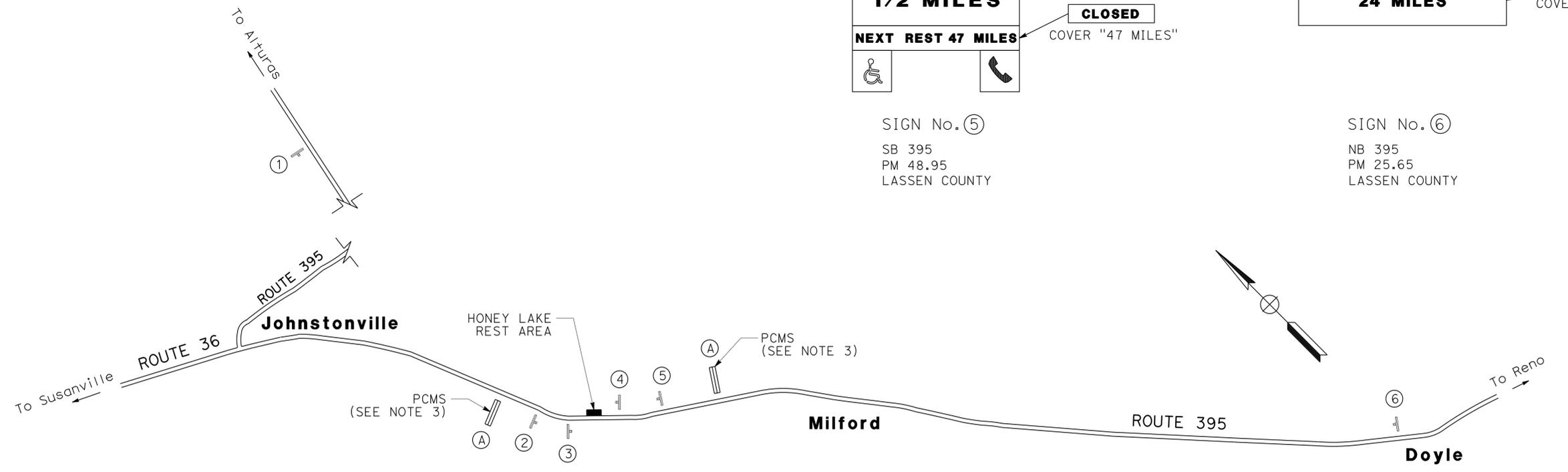
SIGN No. ④
NB 395
PM 49.27
LASSEN COUNTY



SIGN No. ⑤
SB 395
PM 48.95
LASSEN COUNTY



SIGN No. ⑥
NB 395
PM 25.65
LASSEN COUNTY



CONSTRUCTION AREA SIGN PLAN

**CONSTRUCTION AREA SIGNS
NO SCALE
CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 Et Caltrans
 FUNCTIONAL SUPERVISOR STEVEN TOPAL
 CALCULATED/DESIGNED BY ROBERT WEBER
 CHECKED BY RUSSELL FLOOD
 REVISIONS: 05-06-15 DATE PLOTTED => 26-JUN-2015 TIME PLOTTED => 13:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	14	106
<i>Robert Weber</i> 06-22-15 REGISTERED CIVIL ENGINEER DATE					
06-22-15 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:

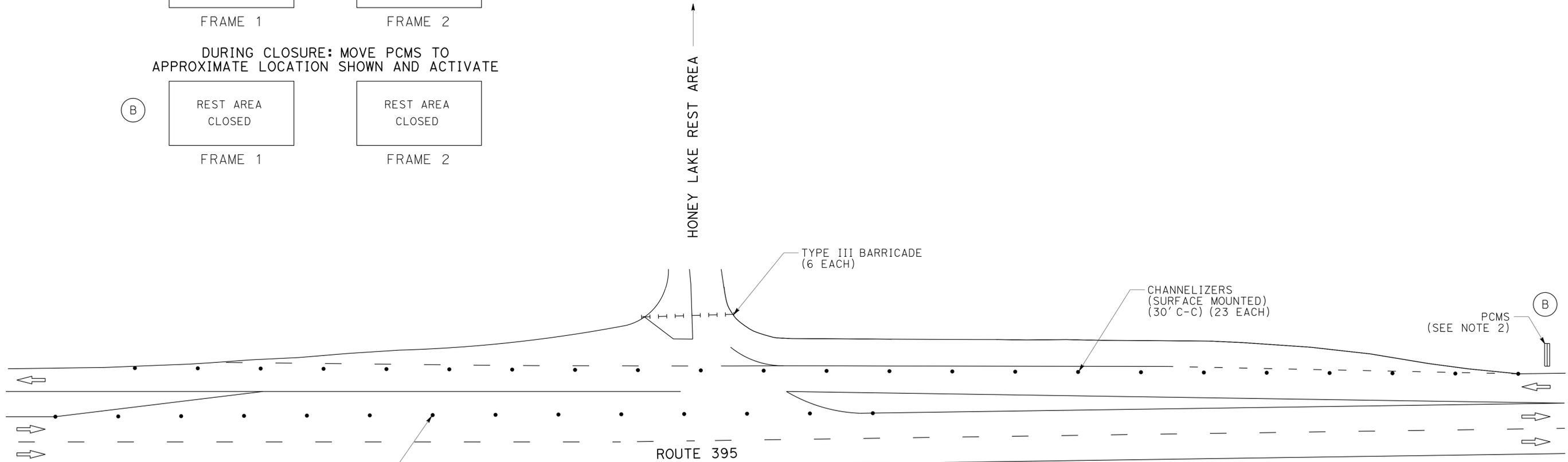
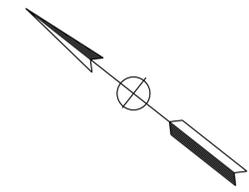
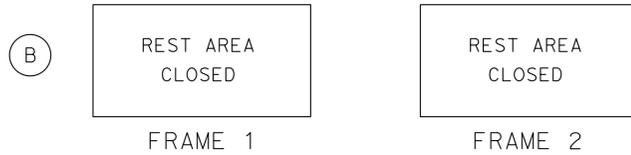
1. EXACT CONFIGURATION OF TRAFFIC CONTROL DEVICES TO BE DETERMINED BY THE ENGINEER.
2. EXACT PCMS LOCATIONS TO BE DETERMINED BY THE ENGINEER.

PCMS MESSAGES

PRE-CLOSURE: PLACE PCMS 7 DAYS PRIOR TO CLOSURE AND ACTIVATE



DURING CLOSURE: MOVE PCMS TO APPROXIMATE LOCATION SHOWN AND ACTIVATE



PLACEMENT OF TRAFFIC CONTROL DEVICES DURING CLOSURE OF REST AREA

TRAFFIC HANDLING PLAN
NO SCALE

TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 STEVEN TOPAL
 FUNCTIONAL SUPERVISOR
 ROBERT WEBER
 RUSSELL FLOOD
 REVISIONS: 01, 02, 03, 04, 05, 06, 07, 08, 09, 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
02, 03	Las, Sac	395, 5	49.6, 23.3	15	106

Robert Weber 06-22-15
 REGISTERED CIVIL ENGINEER DATE
 06-22-15
 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.

NOTES:

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

WATER POLLUTION CONTROL

LOCATION	TEMPORARY FIBER ROLL	COMMENTS
	LF	
VARIOUS	300	PLACE AS NEEDED
TOTAL	300	

TRAFFIC HANDLING QUANTITIES

LOCATION	CHANNELIZER (SURFACE MOUNTED)	TYPE III BARRICADE "LANE CLOSED"
	EA	EA
ENTRANCE OF SRRA		6
NB RIGHT TURN LANE	23	
SB LEFT TURN LANE	14	
TOTAL	37	6

EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS TO BE MAINTAINED

LOCATION	ELEMENT	COMMENTS
ENTRANCE TO SRRA	CENSUS LOOP	NOT IN USE WHEN REST AREA CLOSED

FENCING AND GATES

LOCATION	CHAIN LINK FENCE (TYPE CL-5, VINYL-CLAD)	CHAIN LINK FENCE (TYPE CL-6, SLATTED)	MAINTENANCE ACCESS GATE	4' CHAIN LINK GATE (TYPE CL-5, VINYL-CLAD)	12' CHAIN LINK GATE (TYPE CL-6, SLATTED)
	LF	LF	EA	EA	EA
GENERATOR ENCLOSURE		140			1
WASTEWATER TREATMENT AREA	500		1	2	
TOTAL	500	140	1	2	1

ROADWAY QUANTITIES

ALIGNMENT	ROADWAY EXCAVATION	(N)	(N)	SHOULDER BACKING	CLASS 2 AGGREGATE BASE (CY)	MINOR HOT MIX ASPHALT	TACK COAT	DESCRIPTION
		CUT	EMBANKMENT					
"M2" LINE	160	152	141	20	170	190	0.1	MAINTENANCE ACCESS RAMP
"R3" LINE		104	185					WETLANDS PAD GRADING
"R4" LINE		142	162					FILTER PAD GRADING
N/A					8			GENERATOR ENCLOSURE
TOTAL	160	398	488	20	178	190	0.1	

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 FUNCTIONAL SUPERVISOR STEVEN TOPAL
 CALCULATED/DESIGNED BY ROBERT WEBER
 CHECKED BY RUSSELL FLOOD
 REVISOR BY ROBERT WEBER
 DATE REVISED RUSSELL FLOOD

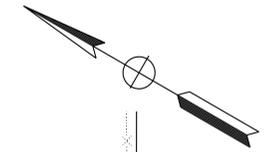
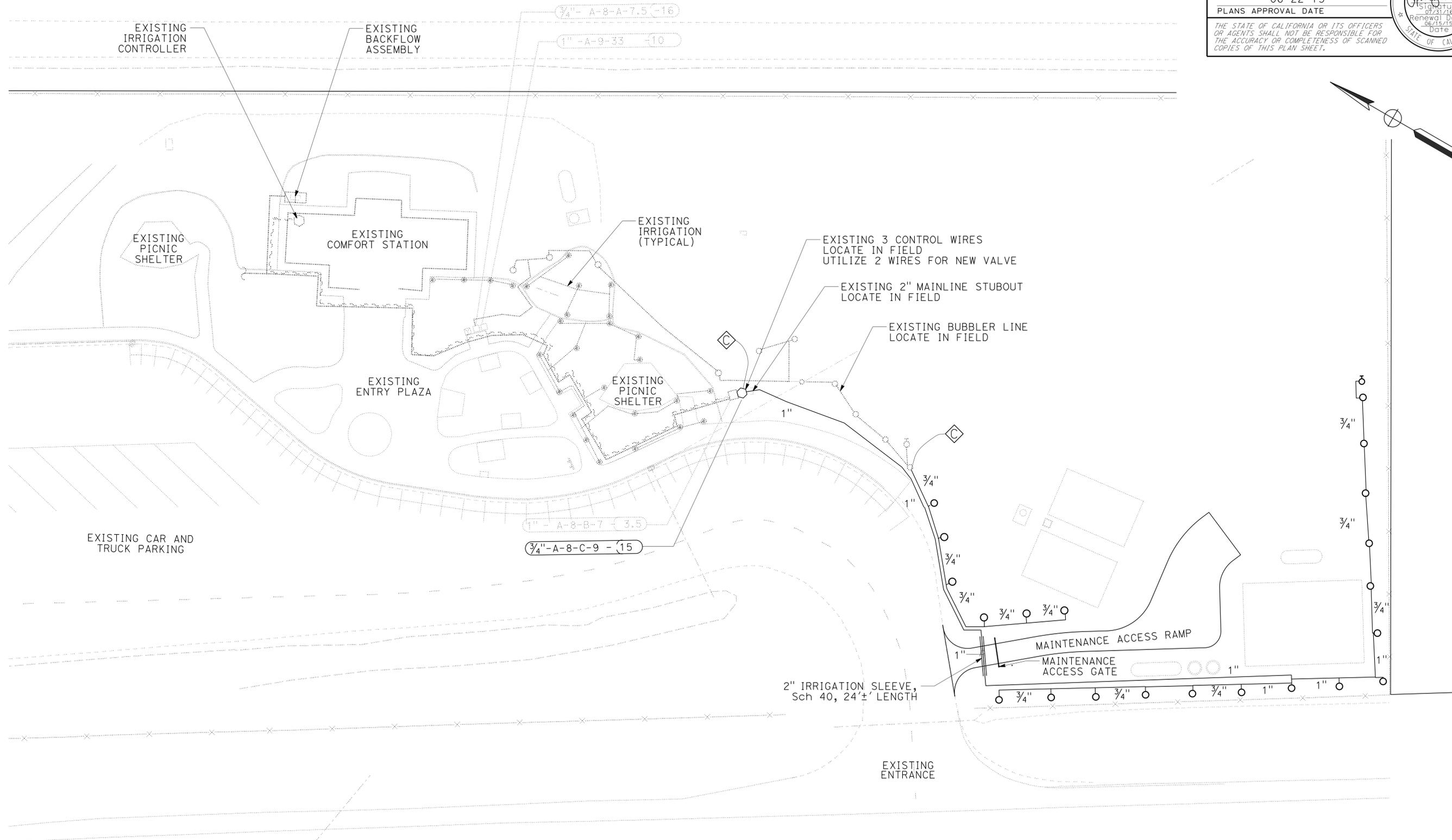
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	18	106

J. Patrick Sullivan, AIA
 LICENSED LANDSCAPE ARCHITECT
 06-22-15
 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.

NOTES:

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



**HONEY LAKE
SAFETY ROADSIDE REST AREA**

IRRIGATION PLAN

SCALE: 1" = 30'

IP-1

APPROVED FOR LANDSCAPE WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT	RON FLORY
CALCULATED/DESIGNED BY	CHECKED BY
J. PATRICK SULLIVAN	RON FLORY
REVISOR	DATE

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 LANDSCAPE ARCHITECTURE
 Ron Flory
 Senior Landscape Architect
 Ron Flory
 J. Patrick Sullivan
 Ron Flory
 Calculated/Designed By
 Checked By
 Revised By
 Date Revised

NOTES:

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

BPA—BACKFLOW PREVENTER ASSEMBLY
 BV—BALL VALVE
 CV—CHECK VALVE
 EA—EACH
 FA—FAUCET ASSEMBLY
 FCV—FLOW CONTROL VALVE
 FS—FLOW SENSOR

ABBREVIATIONS:

FV—FLUSH VALVE
 GV—GATE VALVE
 MCV—MANUAL CONTROL VALVE
 LF—LINEAR FEET
 FT—FOOT/FEET
 PR—PRESSURE RATED
 PRV—PRESSURE REDUCING VALVE

PRLV—PRESSURE RELIEF VALVE
 QCV—QUICK COUPLING VALVE
 RCV—REMOTE CONTROL VALVE
 VAU—VALVE ASSEMBLY UNIT
 WSP—WELDED STEEL PIPE
 WS—WYE STRAINER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	20	106

J. Patrick Sullivan, AIA
 LICENSED LANDSCAPE ARCHITECT
 06-22-15
 PLANS APPROVAL DATE
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SUBTOTALS PER PLAN SHEET ON MAIN SUPPLY SIDE OF CONTROL VALVE

DESCRIPTION	UNIT	SHEET NUMBER				SUBTOTAL (N)
		IP-1	-	-	-	
VALVES AND ASSEMBLIES	EA	3/4"	1	-	-	1
		2"	1	-	-	1
		2"	6	-	-	6
		2"	6	-	-	6

1. ALL IRRIGATION VALVE BOXES, SPLICE BOXES & PULL BOXES MUST BE FIBERGLASS REINFORCED PLASTIC. REGULAR VALVE BOX LIDS MUST BE FIBERGLASS REINFORCED. CIRCULAR VALVE BOXES MUST BE FIBERGLASS REINFORCED.

TOTAL QUANTITIES

TOTAL (N)	UNIT	DESCRIPTION
1	EA	3/4"
1	EA	2"
446	LF	3/4"
520	LF	1"
6	LF	2"
24	LF	2"
21	EA	○ C-2

CHECK AND TEST EXISTING IRRIGATION FACILITIES TOTAL (LS)

WORK ITEM	SHEET NO.	AREA	CHECK & TEST EXISTING IRRIGATION FACILITY
CHECK & TEST IRRIGATION AT SRRA	IR-1	93,000(N)	LS
TOTAL SF		93,000(N)	LS

1. CONTRACTOR MUST CHECK & TEST EXISTING IRRIGATION SYSTEM PRIOR TO CONSTRUCTION OF THE NEW IRRIGATION SYSTEM. COMPLETELY CHECK THE EXISTING SYSTEM TO ASSURE IT IS FUNCTIONING PROPERLY.
2. CONTRACTOR MUST CHECK & TEST EXISTING IRRIGATION SYSTEM PRIOR TO BEGINNING MAINTENANCE OF THE EXISTING SYSTEM. COMPLETELY CHECK THE EXISTING SYSTEM TO ASSURE IT IS FUNCTIONING PROPERLY.
3. CONTRACTOR MUST CHECK & TEST IRRIGATION SYSTEM UPON COMPLETION OF THE WORK. COMPLETELY CHECK THE ENTIRE SYSTEM TO ASSURE IT IS FUNCTIONING PROPERLY.

IRRIGATION QUANTITIES

IQ-2

LAST REVISION: DATE PLOTTED => 26-JUN-2015
 06-22-15 TIME PLOTTED => 1:31:37

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 LANDSCAPE ARCHITECTURE
 Ron Flory
 Senior Landscape Architect
 Ron Flory
 J. Patrick Sullivan
 Ron Flory
 Revised By
 Date Revised
 Calculated/Designed By
 Checked By

NOTES:

1. UNDERLINED PORTIONS OF BOTANICAL NAME INDICATES ABBREVIATIONS USED ON PLANTING PLANS.

ABBREVIATIONS:

CY CUBIC YARD/YARDS
 CF CUBIC FEET/FOOT
 DN DIAMETER NOMINAL
 Ft FEET/FOOT
 IN INCHES
 LB POUND(S)
 PKt PACKET
 SQFT SQUARE FEET/FOOT
 SQYD SQUARE YARD(S)

LEGEND:

X IN BOX DENOTES REQUIREMENT
 — IN BOX DENOTES NOT A REQUIREMENT

APPLICABLE WHEN CIRCLED:

- ① - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS M2 APPLICATION RATES.
- ② - SUFFICIENT TO RECEIVE ROOT BALL.
- 3 - DOES NOT APPLY TO MULCH AREAS.
- ④ - AS SHOWN ON PLANS.
- 5 - UNLESS OTHERWISE SHOWN ON PLANS.
- 6 - SEE DETAIL.
- 7 - SEE SPECIAL PROVISIONS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	21	106

J. Patrick Sullivan, AIA
 LICENSED LANDSCAPE ARCHITECT
 06-22-15
 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.

PLANT LIST AND PLANTING SPECIFICATIONS

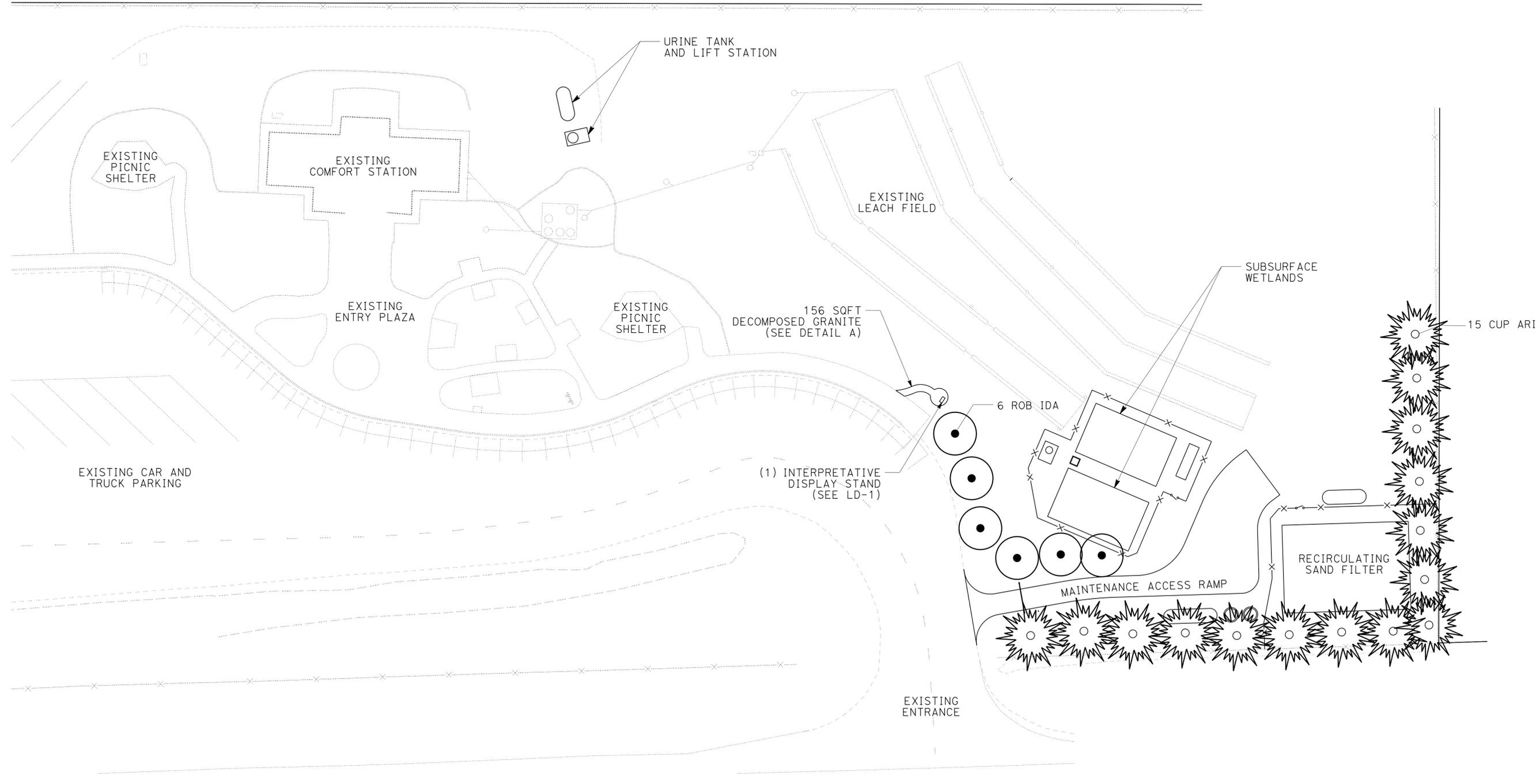
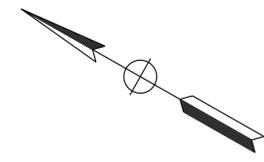
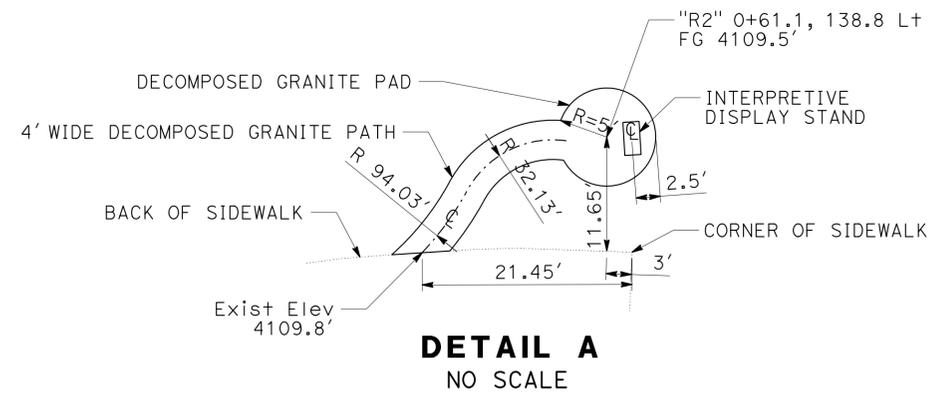
PLANT No	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (in)		BASIN TYPE	IRON SULFATE	SOIL AMEND ①	PACKET FERTILIZER ① AT PLANTING	BASIN MULCH ①	STAKING	PLANTING LIMITS							REMARKS
						DIA	DEPTH							MINIMUM DISTANCE (ft) FROM					ON CENTER (ft)		
														TRVD WAY	PVMT	FENCE	WALL	PAVED DITCH		EARTH DITCH	
B		<u>CUPRESSUS</u> <u>ARIZONICA</u>	ARIZONA CYPRESS	No. 5	16	24	20	I	—	.3 cuft	3 EA	3 in	X	—	15.0	5.0	—	—	—	—	TREE ④
		<u>ROBINIA</u> <u>AMBIGNA</u> 'IDAHOENSIS'	IDAHO LOCUST	No. 5	6	24	20	I	—	.3 cuft	3 EA	3 in	X	—	15.0	5.0	—	—	—	—	TREE ④
M		<u>ELOCHARIS</u> <u>PALUSTRIS</u>	CREeping SPIKE RUSH	Plug/Pot	88	②	②	—	—	—	—	—	—	—	—	—	—	—	—	2.5	WETLAND SPECIES
		<u>JUNCUS</u> <u>BALTICUS</u>	BALTIC RUSH	↓	62	↓	↓	—	—	—	—	—	—	—	—	—	—	—	—	↓	↓
		<u>JUNCUS</u> <u>PATENS</u>	GREY RUSH	↓	66	↓	↓	—	—	—	—	—	—	—	—	—	—	—	—	↓	↓
		<u>TYPHUS</u> <u>ANGUSTIFOLIUS</u>	NARROW LEAF CATTAIL	Tree Band /Pot	32	↓	↓	—	—	—	—	—	—	—	—	—	—	—	—	3	↓

PLANT LIST PL-1

LAST REVISION | DATE PLOTTED => 26-JUN-2015
 06-22-15 TIME PLOTTED => 1:31:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	22	106

J. Patrick Sullivan, AIA
 LICENSED LANDSCAPE ARCHITECT
 06-22-15
 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.



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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: RON FLORY
 J. PATRICK SULLIVAN: RON FLORY
 CALCULATED/DESIGNED BY: CHECKED BY:

PLANTING PLAN

SCALE: 1" = 30'

PP-1

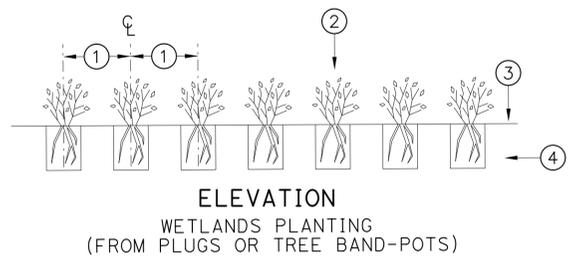
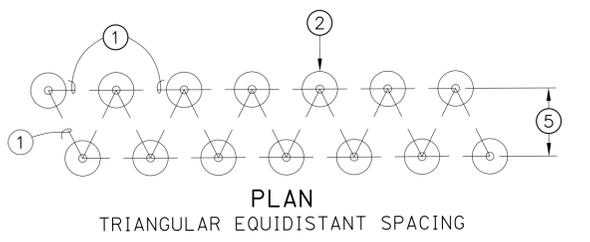
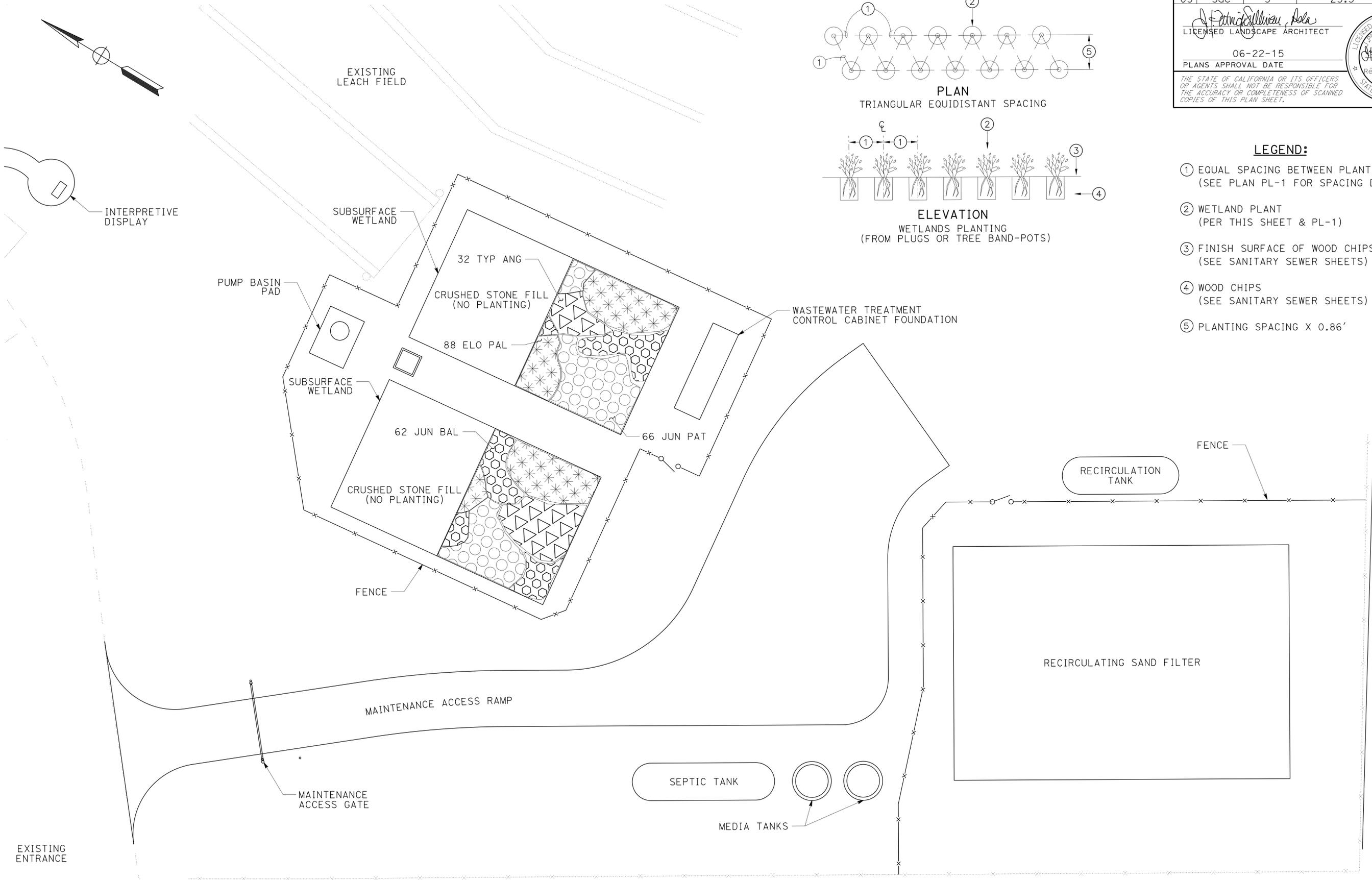
APPROVED FOR LANDSCAPE WORK ONLY

LAST REVISION DATE PLOTTED => 26-JUN-2015
 06-22-15 TIME PLOTTED => 1:31:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	23	106

J. Patrick Sullivan, AIA
 LICENSED LANDSCAPE ARCHITECT
 06-22-15
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- LEGEND:**
- ① EQUAL SPACING BETWEEN PLANTINGS (SEE PLAN PL-1 FOR SPACING DETAILS)
 - ② WETLAND PLANT (PER THIS SHEET & PL-1)
 - ③ FINISH SURFACE OF WOOD CHIPS (SEE SANITARY SEWER SHEETS)
 - ④ WOOD CHIPS (SEE SANITARY SEWER SHEETS)
 - ⑤ PLANTING SPACING X 0.86'

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 J. PATRICK SULLIVAN
 SENIOR LANDSCAPE ARCHITECT
 RON FLORY
 CHECKED BY
 DESIGNED BY
 CALCULATED BY
 J. PATRICK SULLIVAN
 RON FLORY
 REVISED BY
 DATE REVISED

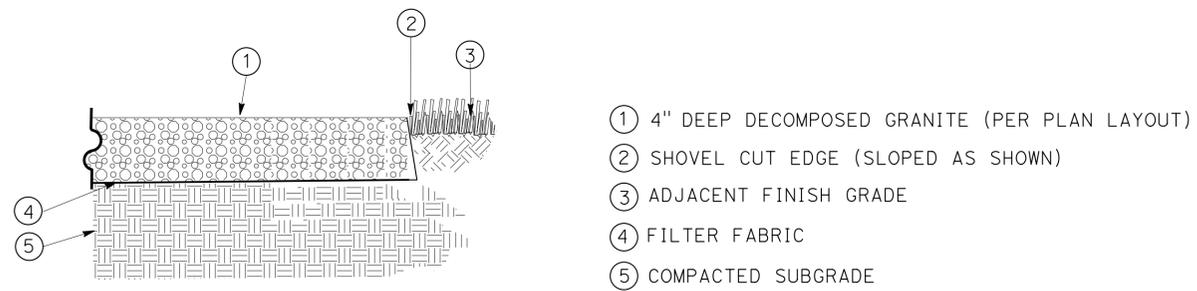
APPROVED FOR LANDSCAPE WORK ONLY

PLANTING PLAN
 SCALE: 1" = 10'
PP-2

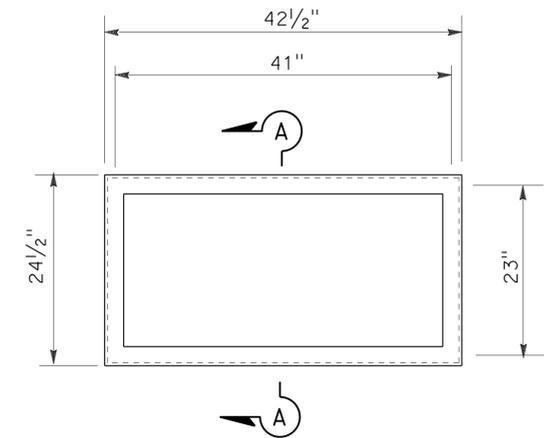
LAST REVISION DATE PLOTTED => 26-JUN-2015
 06-22-15 TIME PLOTTED => 1:31:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	24	106

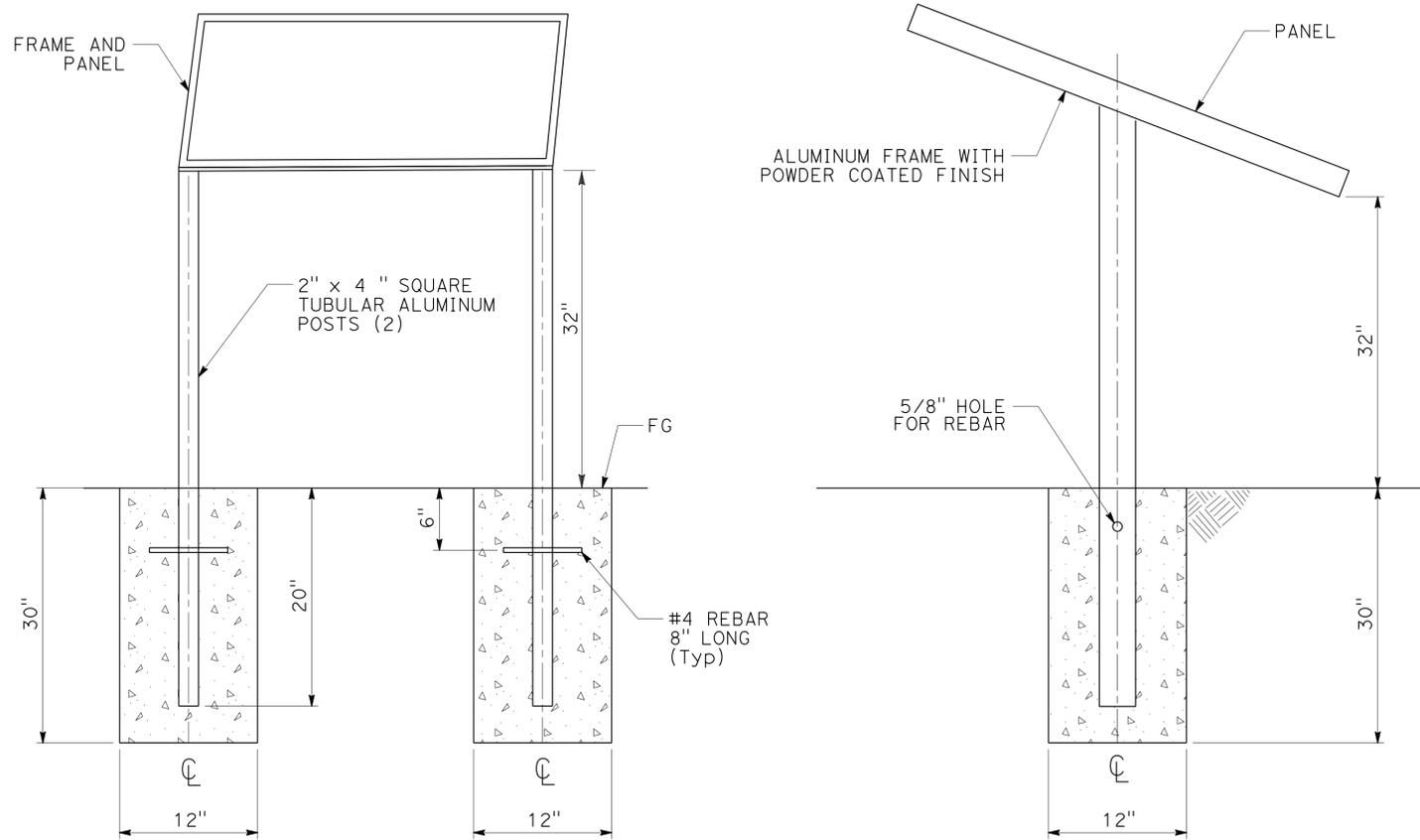
J. Patrick Sullivan, AIA
 LICENSED LANDSCAPE ARCHITECT
 06-22-15
 PLANS APPROVAL DATE
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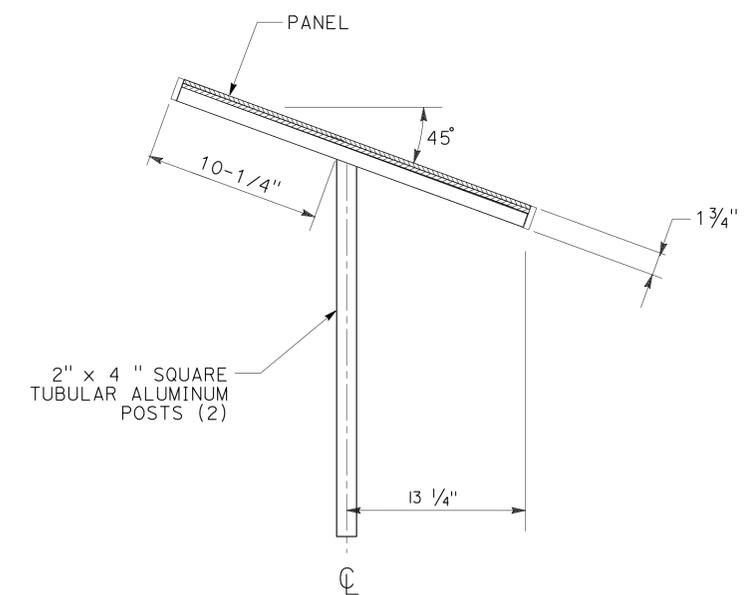
TYPICAL SECTION
DECOMPOSED GRANITE WITH SHOVEL CUT EDGE



INTREPRETIVE DISPLAY PANEL DETAIL



SECTIONS THROUGH FOOTING



SECTION A-A

INTREPRETATIVE DISPLAY STAND (NATIONAL PARK SERVICE STYLE)

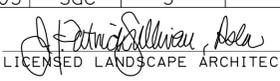
NOTES:

- CONSTRUCTION TO MATCH NATIONAL PARK SERVICE REQUIREMENTS (NPS 4224 TRAD).
- POWDER COATING COLOR TO MATCH NPS DARK BROWN, FOR ALL FRAME COMPONENTS.

LANDSCAPE CONSTRUCTION DETAILS LD-1
 NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 J. PATRICK SULLIVAN - LANDSCAPE ARCHITECT
 RON FLORY - SENIOR LANDSCAPE ARCHITECT
 RON FLORY - LANDSCAPE ARCHITECT
 REVISIONS: 01, 02, 03, 04, 05, 06, 07, 08, 09, 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
02, 03	Las, Sac	395, 5	49.6, 23.3	25	106


 LICENSED LANDSCAPE ARCHITECT
 #3125
 Signature Date: 07/31/16
 Renewal Date: 06/15/18
 Date: 06-22-15
 PLANS APPROVAL DATE



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PACKET FERTILIZER

WORK ITEM		PACKET FERTILIZER
DESCRIPTION	SHEET No.	
FERTILIZER (PACKET)	PP-1	66
FERTILIZER (PACKET)	PP-2	0
TOTAL EA		66

1. APPLY FERTILIZER (PACKET) FOR EACH PLANT TYPE AS SHOWN ON SHEET PL-1.

SOIL AMENDMENT

WORK ITEM		SOIL AMENDMENT
DESCRIPTION	SHEET No.	
SOIL AMENDMENT	PP-1	.23
TOTAL CY		.23

1. SOIL AMENDMENT MUST BE CEDAR
2. APPLY SOIL AMENDMENT TO PLANTS PER STANDARD PLANT DETAILS & PER SHEET PL-1.

PLANT (GROUP B) (No. 5)

WORK ITEM		PLANT (GROUP B)
DESCRIPTION	SHEET No.	
PLANT (GROUP B)	PP-1	21
TOTAL EA		21

1. FOR PLANT SPECIES AND TYPES SEE SHEET PL-1
2. FOR PLANT LOCATIONS SEE SHEETS PP-1.

WOOD MULCH

WORK ITEM		MULCH
DESCRIPTION	SHEET No.	
MULCH	PP-1	.58
TOTAL CY		.58

1. WOOD MULCH MUST BE SHREDDED BARK (FIR, WALK-ON, FREEWAY BARK).
2. APPLY WOOD MULCH 3" DEEP, IN TREE BASINS ONLY AS SHOWN ON PLANTING PLANS SHEETS PP-1 & PL-1.

PLANT (GROUP M) (Plug/Pot/Tree Band)

WORK ITEM		PLANT (GROUP M)
DESCRIPTION	SHEET No.	
PLANT (GROUP B)	PP-2	248
TOTAL EA		248

1. FOR PLANT SPECIES AND TYPES SEE SHEET PL-1
2. FOR PLANT LOCATIONS SEE SHEETS PP-2.

PLANT ESTABLISHMENT (LS)

WORK ITEM		AREA
DESCRIPTION	SHEET No.	
PLANT ESTABLISHMENT AREAS	PP-1 & PP-2	16,600(N)
TOTAL SQFT		16,600(N)

MAINTAIN EXISTING PLANTED AREAS (LS)

WORK ITEM		AREA	MAINTAIN EXISTING PLANTING
DESCRIPTION	SHEET No.		
MAINTAIN EXISTING PLANTED AREAS	MEA-1	93,000(N)	
TOTAL SQFT		93,000(N)	LS

1. INSPECT EXISTING PLANTS WITH THE ENGINEER PRIOR TO COMMENCING OF WORK.

DECOMPOSED GRANITE

WORK ITEM		DECOMPOSED GRANITE
DESCRIPTION	SHEET No.	
DECOMPOSED GRANITE	PP-1	156
TOTAL SQFT		156

INTERPRETIVE DISPLAY STAND

WORK ITEM		INTERPRETIVE DISPLAY STAND
DESCRIPTION	SHEET No.	
INTERPRETIVE DISPLAY STAND	PP-1	LUMP SUM
		LUMP SUM

LANDSCAPE QUANTITIES

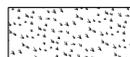
LQ-1

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 J. PATRICK SULLIVAN
 LANDSCAPE ARCHITECT
 RON FLORY
 CHECKED BY
 RON FLORY
 DESIGNED BY
 J. PATRICK SULLIVAN
 REVISOR
 DATE
 REVISIONS

NOTE:

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

LEGEND:

 HYDROSEED

**EROSION CONTROL
QUANTITY TABLE**

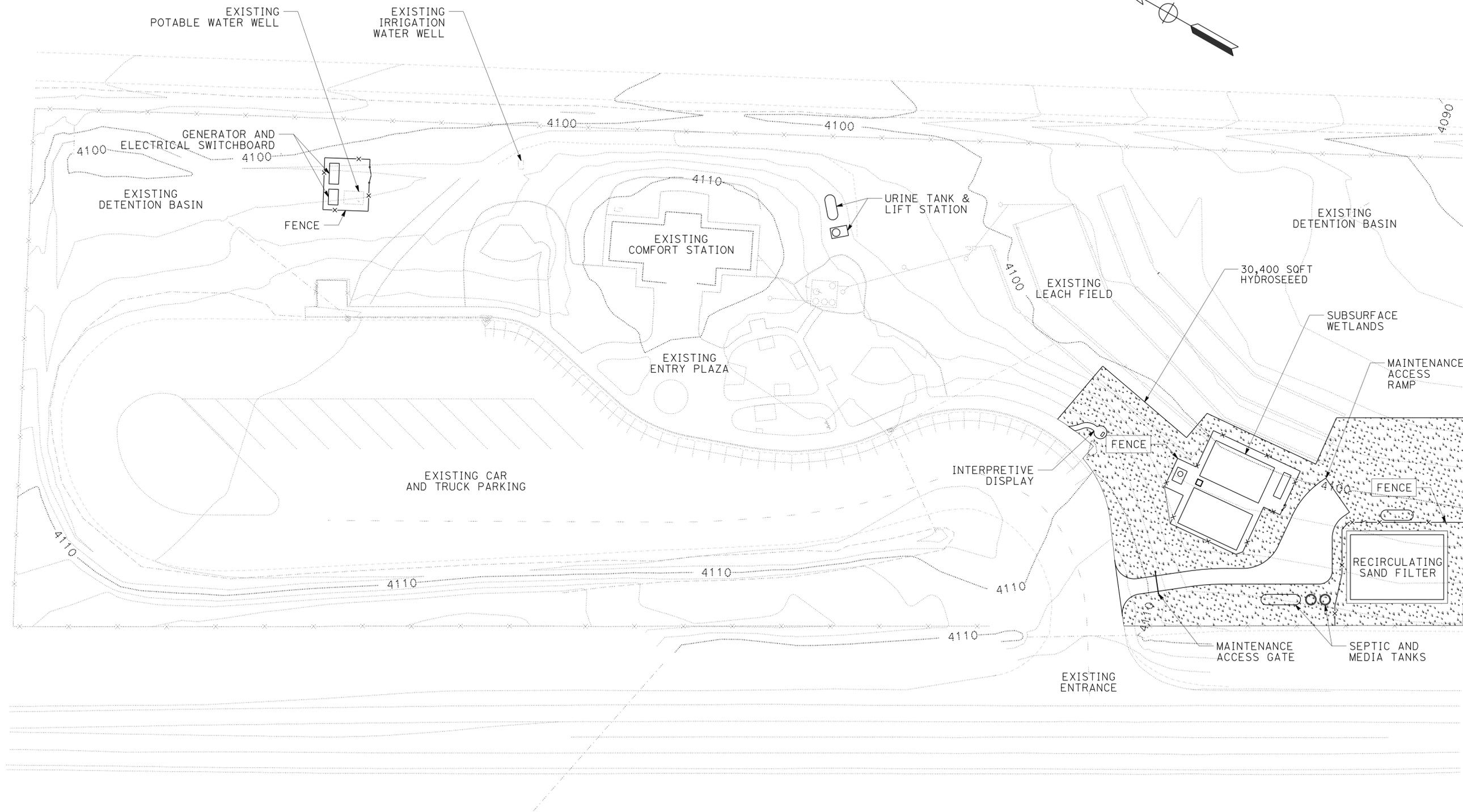
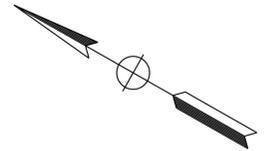
HYDROSEED	
TOTAL SQFT THIS SHEET	30,400

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	26	106

J. Patrick Sullivan, AIA
LICENSED LANDSCAPE ARCHITECT

06-22-15
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.

**HONEY LAKE
SAFETY ROADSIDE REST AREA**

EROSION CONTROL PLAN

SCALE: 1" = 40'

EC-1

APPROVED FOR LANDSCAPE WORK ONLY

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 RON FLORY
 CALCULATED/DESIGNED BY
 CHECKED BY
 J. PATRICK SULLIVAN
 RON FLORY
 REVISOR BY
 DATE REVISOR
 DATE REVISOR

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 J. PATRICK SULLIVAN
 RON FLORY
 RON FLORY
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

NOTES:

1. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
2. REFER TO THE EC SHEET FOR LOCATIONS & SPECIFIC AREA QUANTITIES.
3. APPLY HYDROSEEDING TO FULLY COVER SLOPES & DISTURBED AREAS PER APPLICATION RATES.
4. TOTAL HYDROSEEDING ACREAGE IS .70 ACRE (N)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	27	106

J. Patrick Sullivan, AIA
 LICENSED LANDSCAPE ARCHITECT
 Signature: [Signature]
 06-22-15
 PLANS APPROVAL DATE
 Renewal Date: 06/15/16
 Date: [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.

HYDROSEED SEQUENCE/ APPLICATION RATES (N)

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE (N)
		DESCRIPTION	TYPE	
STEP 1	HYDROSEED	PURE LIVE SEED	MIX	94 LB/ACRE
		FIBER	ALTERNATE	1200 LB/ACRE
		SLOW RELEASE FERTILIZER	GRANULAR	100 LB/ACRE
STEP 2	HYDROSEED	COMPOST	RECYCLED WOOD PRODUCTS	1.2 CY/ACRE
		FIBER	ALTERNATE	2200 LB/ACRE
		TACKIFIER	PSYLLIUM	100 LB/ACRE

SEED MIX (N)

BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (N) (SLOPE MEASUREMENT)
ACHILLEA MILLEFOLIUM (COMMON YARROW)	50	2
ARTEMESIA TRIDENDATA (BIG BASIN SAGE)	50	10
BROMUS CARNIATUS (CALIFORNIA BROME)	70	15
CHRYSOTHAMNUS NAUSEOSUS (RUBBER RABBITBRUSH)	60	10
ELYMUS ELYMIOIDES (SQUIRREL TAIL WILD RYE)	70	10
FESTUCA IDAHOENSIS (WESTERN FESCUE)	70	25
LOTUS PURSHIANUS (PURSHING)	70	5
LUPINUS BICOLOR (DWARF LUPINES)	60	2
VULPIA MICROSTACHYS (SMALL FESCUE)	80	15
TOTAL		94

EROSION CONTROL

MATERIAL		TOTALS	HYDROSEED
DESCRIPTION	TYPE		
PURE LIVE SEED	MIX	65.8 LB (N)	
FIBER	ALTERNATE	2240 LB (N)	
SLOW RELEASE FERTILIZER	GRANULAR	70 LB (N)	
COMPOST	RECYCLED WOOD PRODUCTS	0.84 CY (N)	
TACKIFIER	PSYLLIUM	70 LB (N)	
FROM SHEET EC-1	TOTAL SQFT	30,400	

**EROSION CONTROL QUANTITIES
ECQ-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	28	106

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

July 19, 2013
 PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 06-22-15

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

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

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

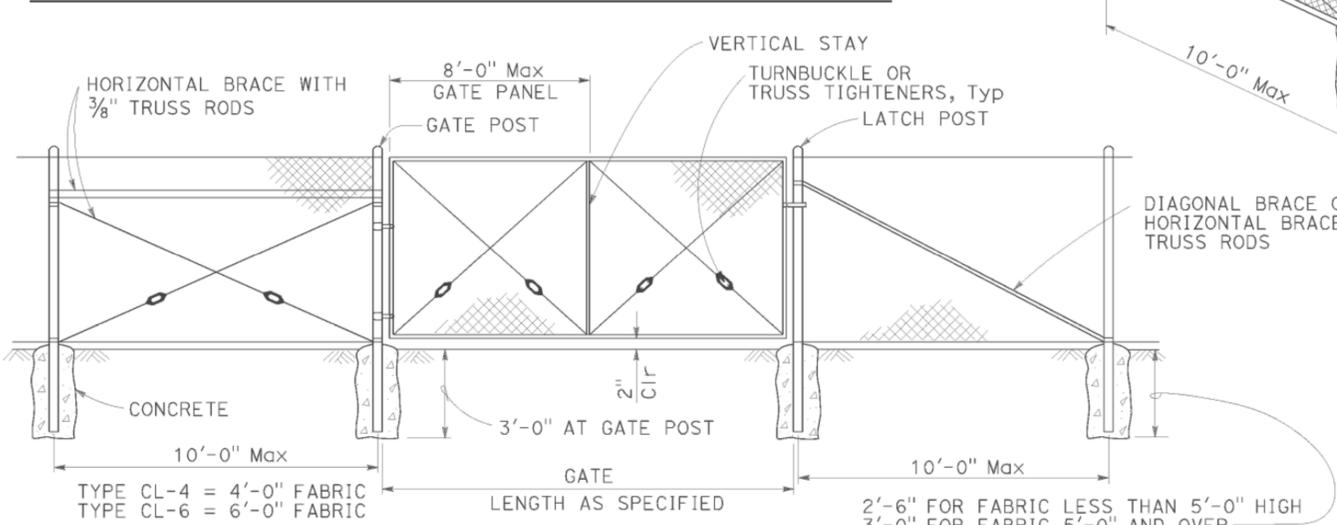
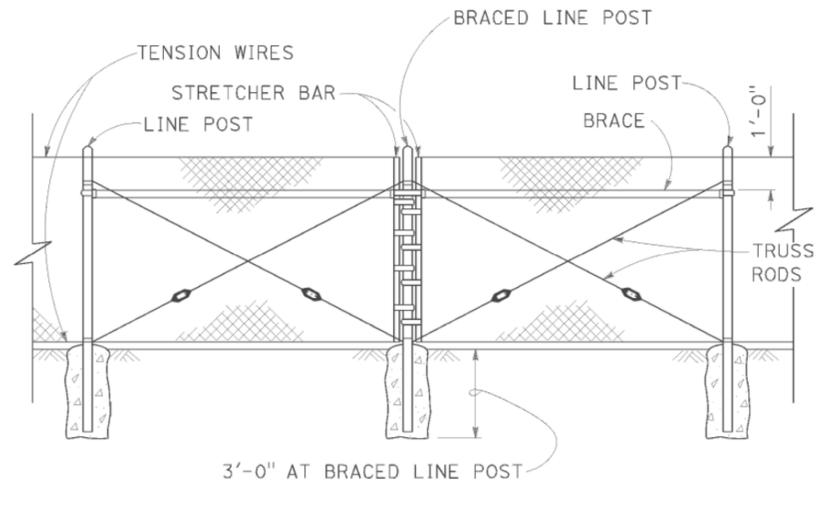
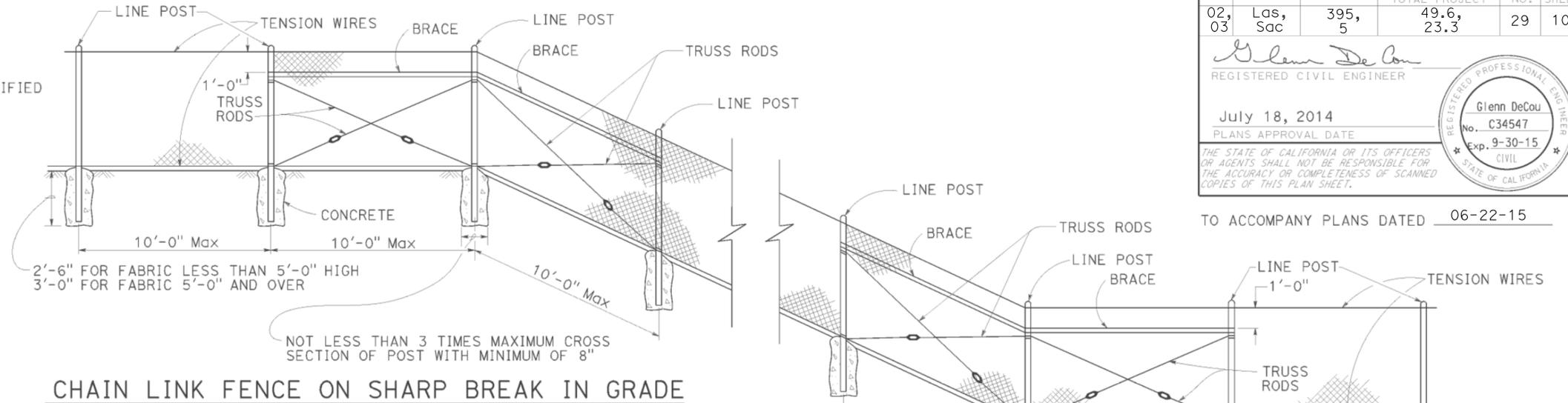
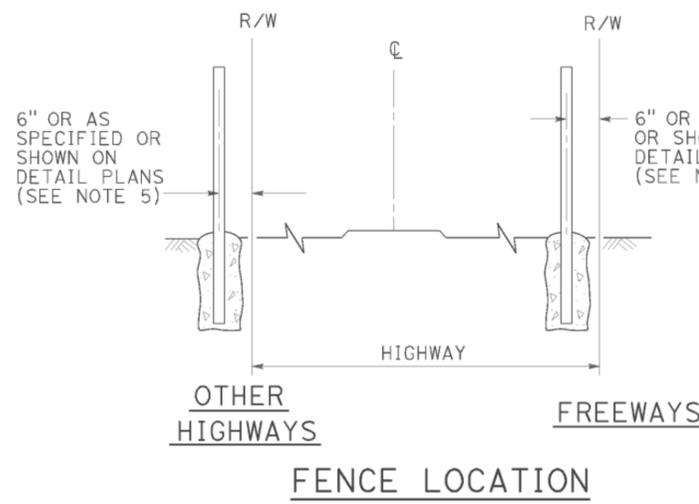
DATE PLOTTED => 26-JUN-2015
TIME PLOTTED => 13:57

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
M+I	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT
N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE
Obir	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN
p	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm M+I	PERMEABLE MATERIAL

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
PL, PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PERFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT
Qty	QUANTITY
R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED, REINFORCEMENT, REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN
R+	RIGHT
Rte	ROUTE
RW	REDWOOD, RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
SL	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES
T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

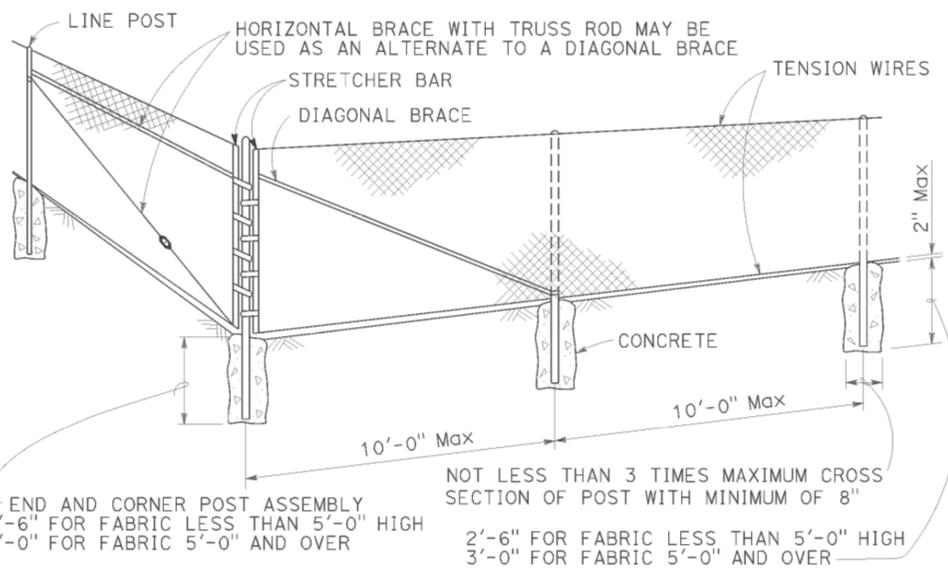
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL
UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME
W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE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



GATE POST			
FENCE HEIGHT	GATE WIDTHS	ROUND OD PIPE	WEIGHT (lb/ft)
6'-0" AND LESS	UP THRU 6'-0"	2.875"	5.80
	OVER 6'-0" THRU 12'-0"	4.500"	10.80
	OVER 12'-0" THRU 18'-0"	5.563"	14.63
OVER 6'-0" TO 8'-0" Max	OVER 18'-0" TO 24'-0" Max	6.625"	18.99
	UP THRU 6'-0"	3.500"	7.58
	OVER 6'-0" THRU 12'-0"	5.563"	14.63
	OVER 12'-0" THRU 18'-0"	6.625"	18.99
	OVER 18'-0" TO 24'-0" Max	8.625"	28.58

Above post dimensions and weights are minimums. Larger sizes may be used upon approval.

- NOTES:**
- The table below shows minimum sized posts and braces complying with the specifications. Larger or heavier post and brace sizes may be used upon approval.
 - Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
 - Other sections which comply with the strength requirements and other provisions of the Specifications may be used upon approval.
 - Options exercised shall be uniform on any one project.
 - Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.
 - See Revised Standard Plan RSP A85B for Brace, Stretcher Bar, and Truss Tightener Details.



FENCE HEIGHT	TYPICAL MEMBER DIMENSIONS (See Notes)									
	LINE POSTS				END, LATCH AND CORNER POSTS		BRACES			
	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED		ROUND OD PIPE	WEIGHT (lb/ft)	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED	
			SECTION	WEIGHT (lb/ft)					SECTION	WEIGHT (lb/ft)
6'-0" AND LESS	1.900"	2.72	1.875" x 1.625"	1.85	2.375"	3.65	1.66"	2.27	1.625" x 1.25"	1.35
OVER 6'-0" TO 8'-0" Max	2.375"	3.65	2.25" x 1.70"	2.78	2.875"	5.80	1.66"	2.27	1.625" x 1.25"	1.35

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CHAIN LINK FENCE
NO SCALE

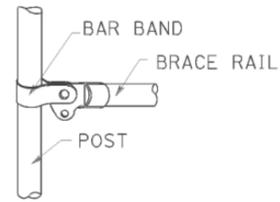
RSP A85 DATED JULY 18, 2014 SUPERSEDES STANDARD PLAN A85
DATED MAY 20, 2011 - PAGE 112 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A85

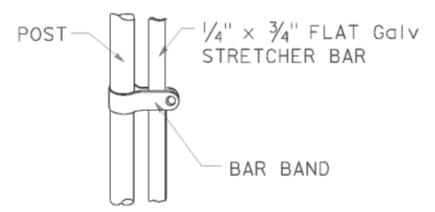
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	30	106

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

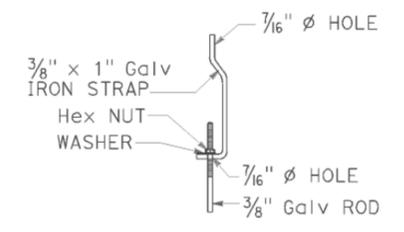
REGISTERED PROFESSIONAL ENGINEER
 Glenn DeCou
 No. C34547
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA



BRACE RAIL



STRETCHER BAR

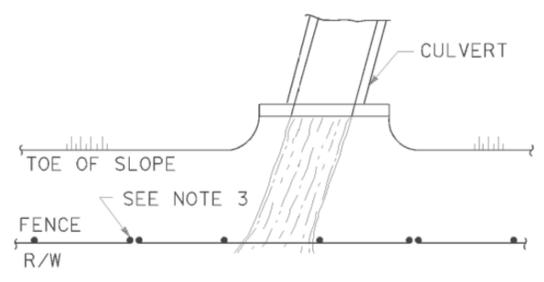


TRUSS TIGHTENER

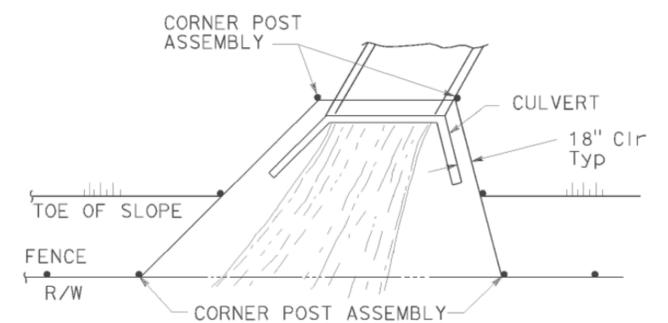
NOTES:

1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.
4. Fencing over stream and around headwall may also use Barbed Wire or Wire Mesh fencing with either wood post or steel post installation.
5. See Standard Plan A85 for Chain Link fence dimensions. See Standard Plan A86 for Barbed Wire and Wire Mesh fence dimensions and for wood post and steel post installation.

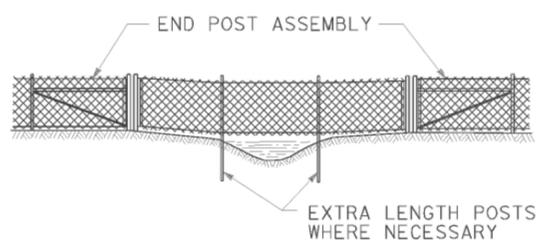
TO ACCOMPANY PLANS DATED 06-22-15



PLAN

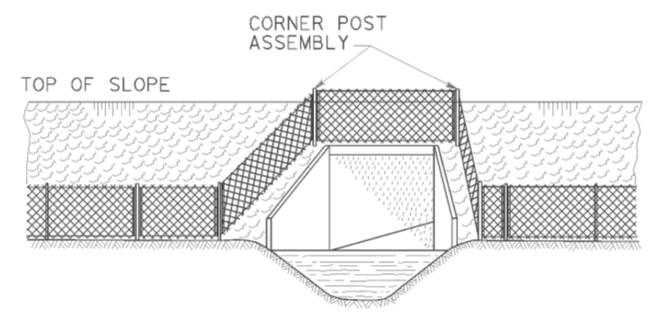


PLAN



ELEVATION

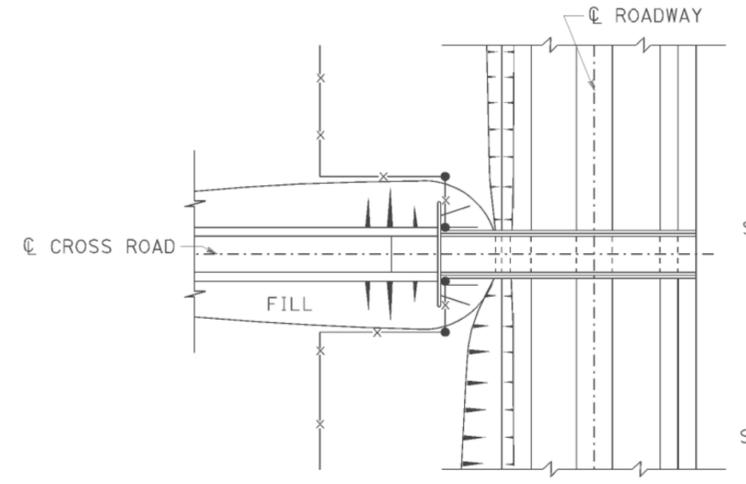
INSTALLATION OVER STREAM



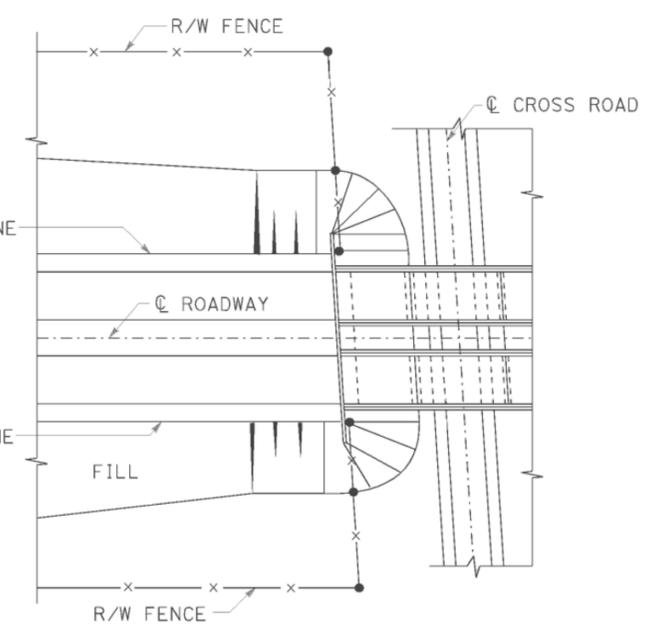
ELEVATION

INSTALLATION AROUND HEADWALL

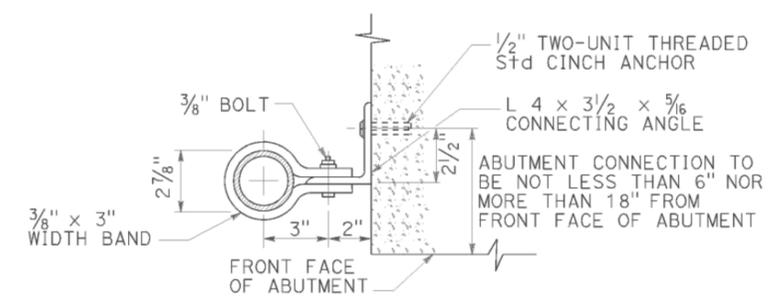
See Note 4



PLAN OF ROADWAY - OVERCROSSING



PLAN OF ROADWAY - UNDERCROSSING



ABUTMENT CONNECTION

TYPICAL INSTALLATION AT BRIDGES

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE DETAILS

NO SCALE

RSP A85B DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A85B DATED MAY 20, 2011 - PAGE 114 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A85B

2010 REVISED STANDARD PLAN RSP A85B

DATE PLOTTED => 26-JUN-2015
TIME PLOTTED => 13:38

TO ACCOMPANY PLANS DATED 06-22-15

TABLE 1

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, $L = WS^2/60$
 For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
 W = Width of offset in feet
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

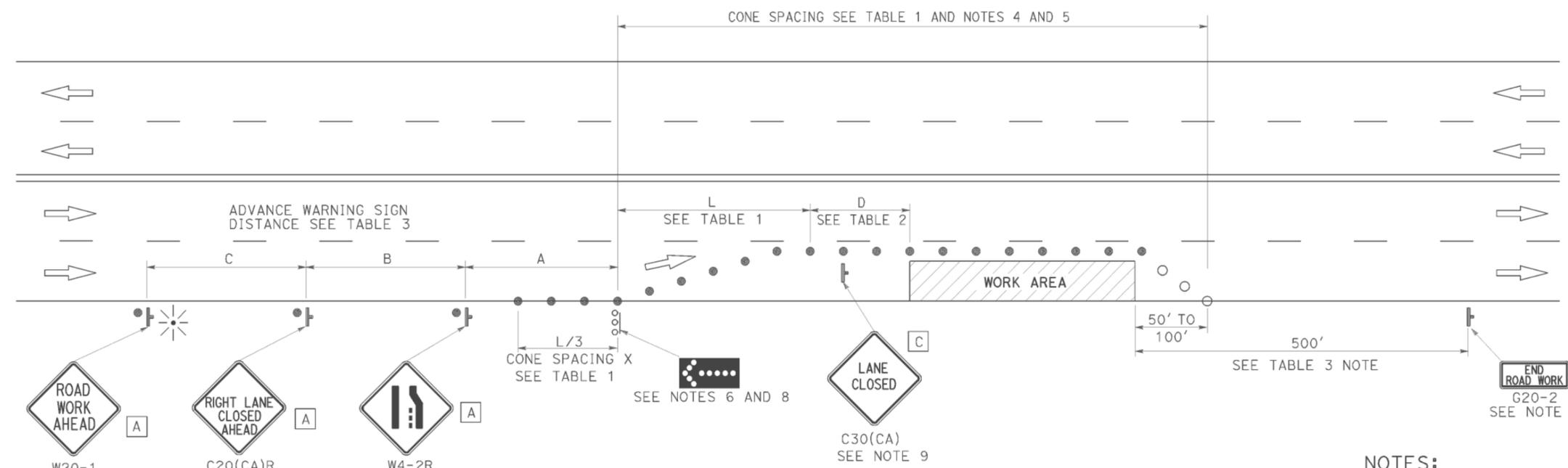
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**
 NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9



TO ACCOMPANY PLANS DATED 06-22-15



TYPICAL LANE CLOSURE

NOTES:

- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
- California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

NOTES:

- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow sign shall be either Type I or Type II.
- For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

LEGEND

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

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS**

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11
 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	33	106

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



LEGEND

- TRAFFIC CONE
- ⊢ TEMPORARY TRAFFIC CONTROL SIGN
- ⋯ FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ☀ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

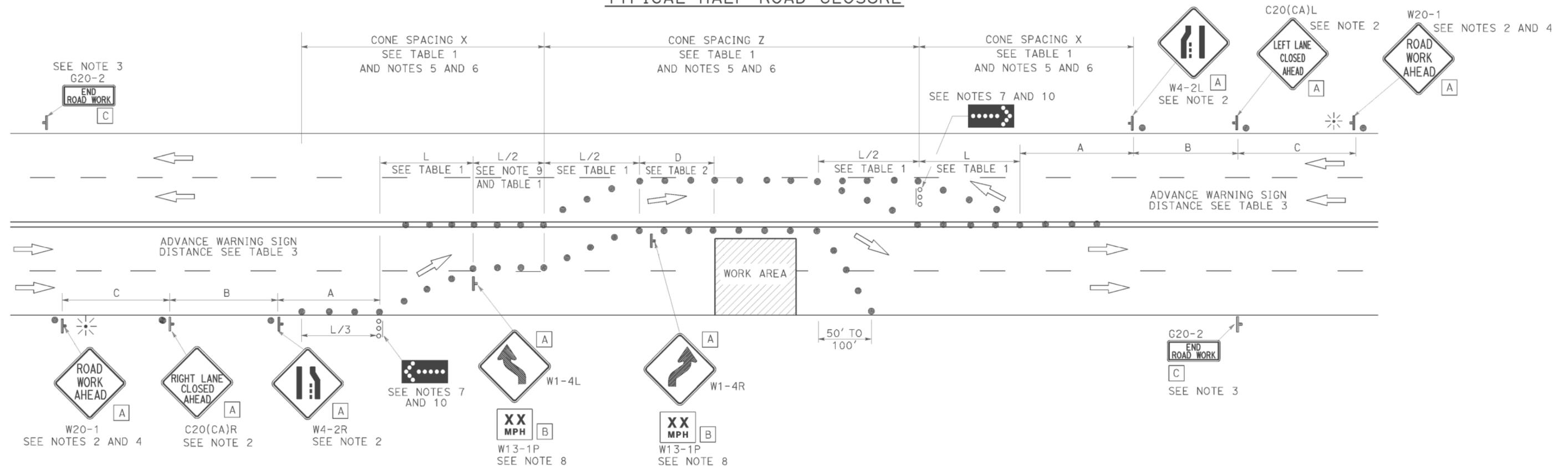
- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

NOTES:

See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
 California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TO ACCOMPANY PLANS DATED 06-22-15

TYPICAL HALF ROAD CLOSURE



NOTES:

- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow signs shall be either Type I or Type II.
- Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
- Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR HALF ROAD CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS AND EXPRESSWAYS**

NO SCALE

RSP T12 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T12 DATED MAY 20, 2011 - PAGE 240 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T12

NOTES:

See Revised Standard Plan RSP T9 for tables.

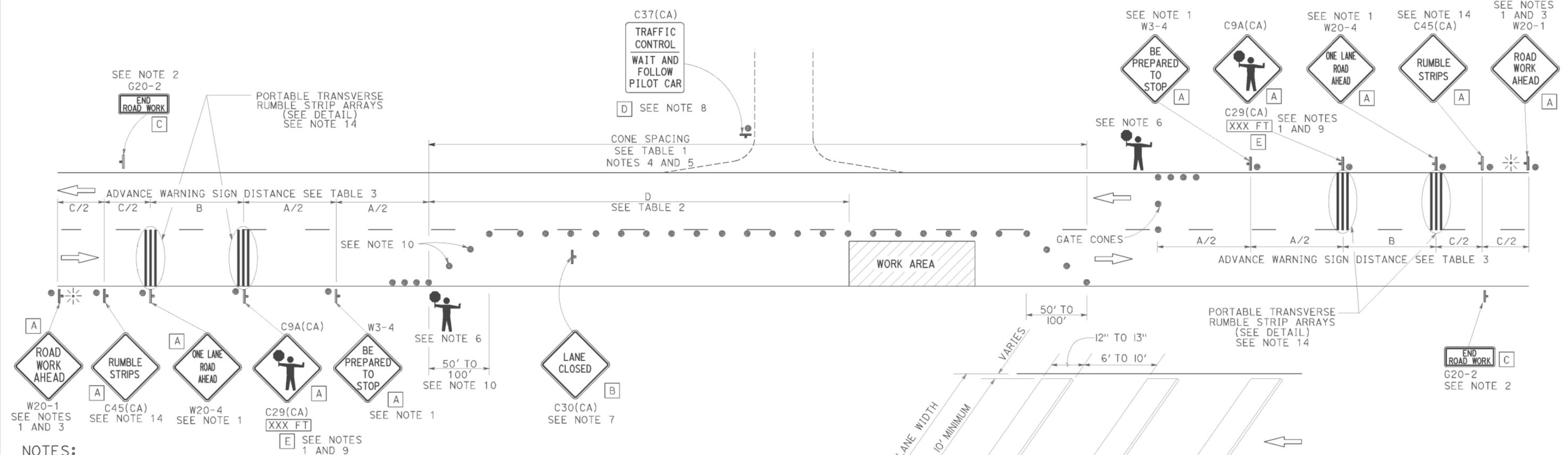
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 06-22-15



- NOTES:**
- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 - A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
 - If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
 - Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.

- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions

RSP T13 DATED OCTOBER 17, 2014 SUPERSEDES RSP T13 DATED JULY 18, 2014 AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	35	106

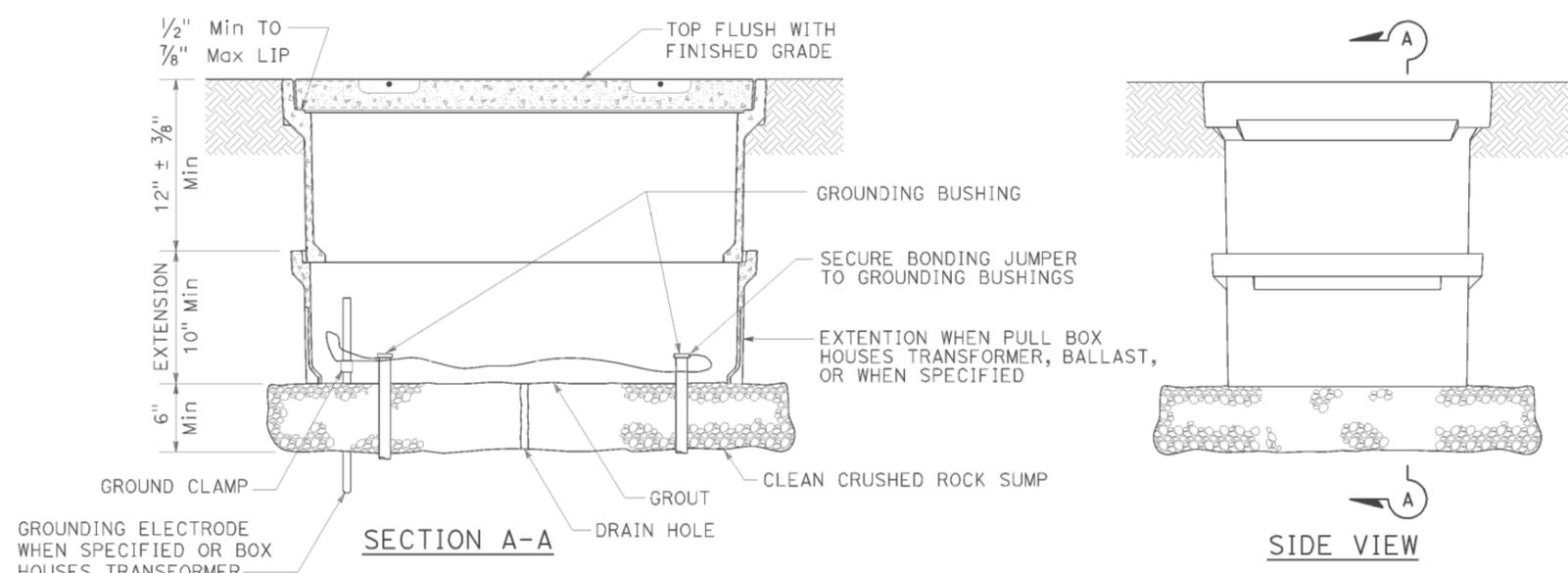
Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

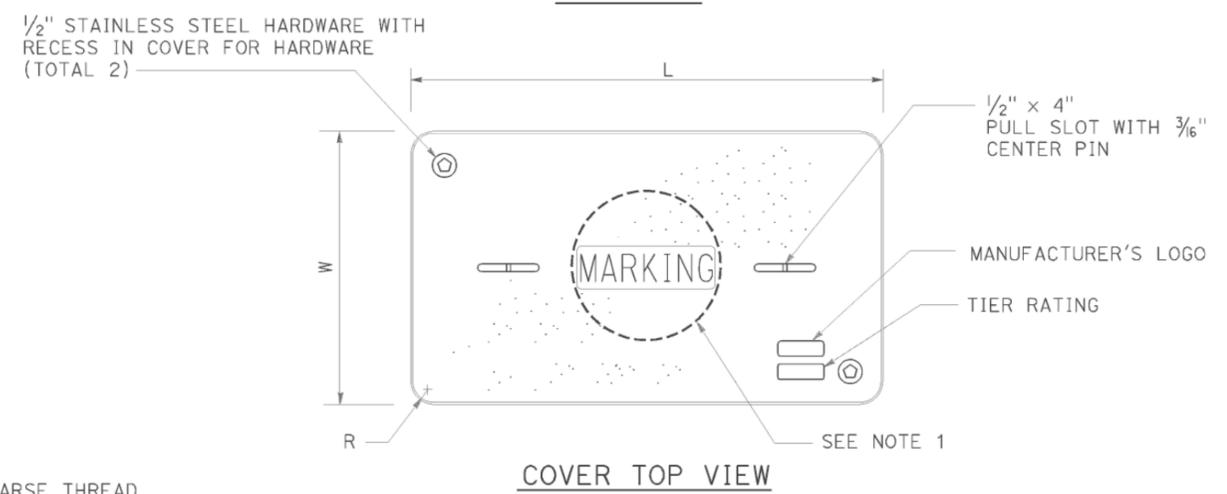
Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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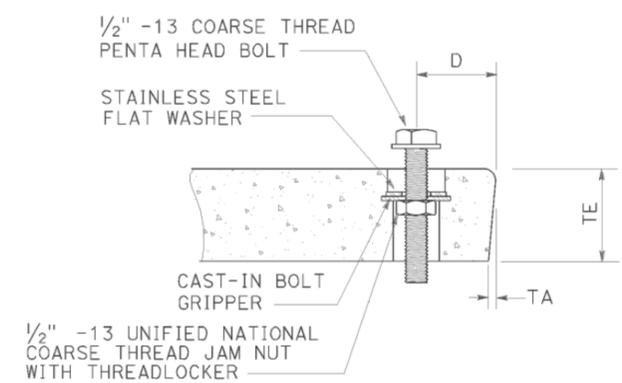
TO ACCOMPANY PLANS DATED 06-22-15



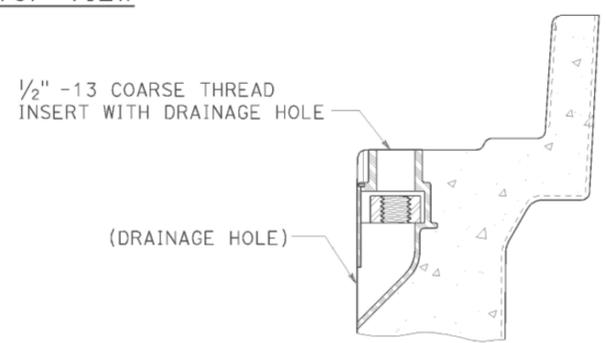
INSTALLATION DETAILS
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
OR SIMILAR



TYPICAL THREADED INSERT
OR SIMILAR

NOTES:

- Pull box covers shall 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 1/2 pull box.
 - "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting 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 lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - "LIGHTING-HIGH VOLTAGE" - Lighting 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.
 - "BOOSTER PUMP" - Booster pump circuit.
- The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8". Top outside radius of covers and pull boxes shall 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.
- All dimensions for the cover for non-traffic pull box are nominal values.

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3 1/2	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
(NON-TRAFFIC PULL BOX)
NO SCALE

RSP ES-8A DATED JULY 19, 2013 SUPERSEDES RSP ES-8A DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8A

2010 REVISED STANDARD PLAN RSP ES-8A

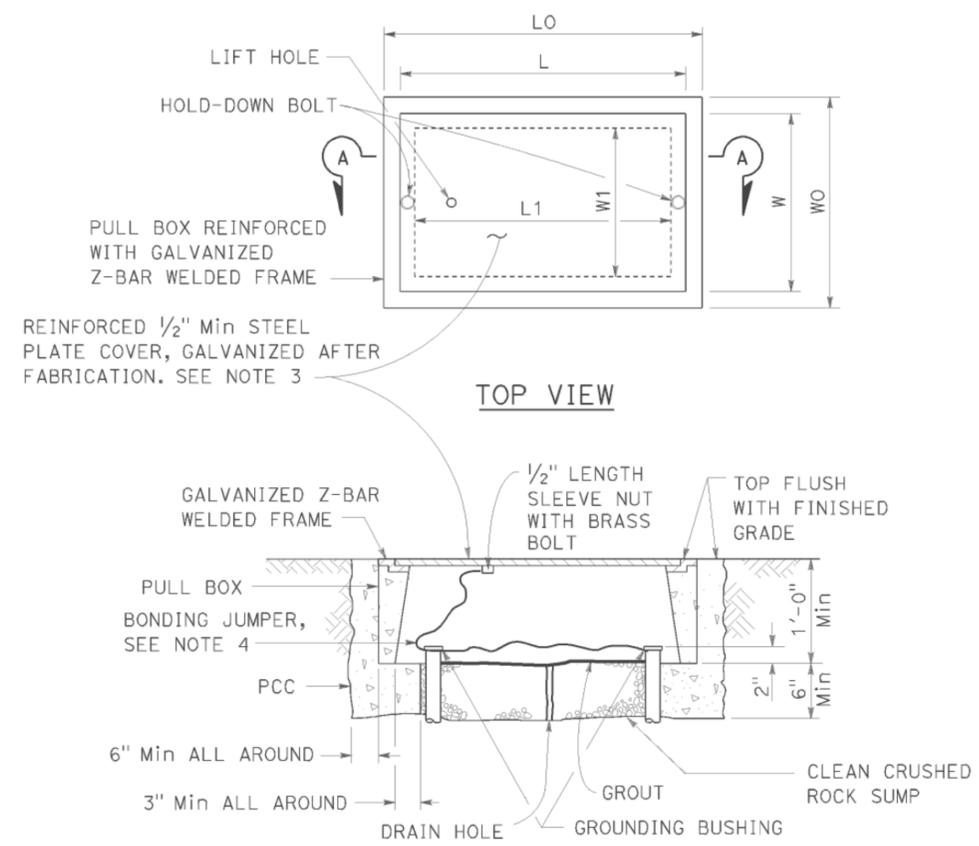
DATE PLOTTED => 26-JUN-2015
TIME PLOTTED => 13:38

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	36	106

Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE
 No. E15129
 Exp. 6-30-14
 ELECTRICAL
 STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 06-22-15



SECTION A-A
No. 3 1/2(T), No. 5(T) AND No. 6(T) TRAFFIC PULL BOX

NOTES:

- Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
- Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
- Pull box covers shall 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 1/2(T) pull box.
 - "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - No. 5(T) or 6(T) pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - "LIGHTING-HIGH VOLTAGE" - Lighting 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.
 - "COMMUNICATION" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communications 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.
 - "BOOSTER PUMP" - Booster pump circuit.
- Bonding jumper for metal covers shall be 3' long, minimum.
- The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8".

PULL BOX	PULL BOX						COVER				
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	W0	L0	L1	W1	L **	W **	R	EDGE THICKNESS	EDGE TAPER
No. 3 1/2(T)	1 1/2"	1'-0"	1'-5"± 1"	1'-8 7/8"±	1'-2 1/2"±	10 5/8"± 1"	1'-8"±	1'-1 3/4"±	0"	1/2"	NONE
No. 5(T)	1 3/4"	1'-0"	1'-11 1/2"± 1"	2'-5 1/2"±	1'-7"±	1'-1"± 1"	2'-3"±	1'-4"±	0"	1/2"	NONE
No. 6(T)	2"	1'-0"	2'-6"± 1"	2'-11 1/2"±	1'-11 1/2"±	1'-5"± 1"	2'-9"±	1'-8"±	0"	1/2"	NONE

* EXCLUDING CONDUIT WEB ** TOP DIMENSION

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

RSP ES-8B DATED JULY 19, 2013 SUPERSEDES RSP ES-8B DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8B

2010 REVISED STANDARD PLAN RSP ES-8B

DATE PLOTTED => 26-JUN-2015
 TIME PLOTTED => 13:38

INDEX OF SHEETS

SHEET NO. DESCRIPTION

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- GP-2 MISC INFO

SANITARY SEWER

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- SS-2 PROPOSED SITE PLAN
- SS-3 PIPE GALLERY MODIFICATION
- SS-4 URINE TANK
- SS-5 SEWAGE LIFT STATION
- SS-6 SEPTIC TANK
- SS-7 SCUM SUPPRESSION SYSTEM
- SS-8 MEDIA TANK
- SS-9 RECIRCULATION TANK
- SS-10 RECIRCULATING SAND FILTER
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- W-4 DETAILS

ELECTRICAL

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- EE0-1 NOTES AND ABBREVIATIONS
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- EE0-3 MODIFIED SITE PLAN
- EE0-4 ENLARGED MODIFIED SITE PLAN 1
- EE0-5 ENLARGED MODIFIED SITE PLAN 2
- EE0-6 SWITCHBOARD COMFORT STATION AND SINGLE LINE DIAGRAM
- EE0-7 MAIN SWITCHBOARD POWER DISTRIBUTION DIAGRAM
- EE0-8 MAIN SWITCHBOARD PANEL ELEVATION
- EE0-9 GENERATOR ELEVATION
- EE1-1 WATER TREATMENT ROOM
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- EE4-7 LIFT STATION SCREEN
- EE4-8 SEPTIC TANK SCREEN
- EE4-9 RECIRCULATION TANK SCREEN
- EE4-10 PUMP BASIN SCREEN
- EE4-11 HISTORICAL DATA SCREEN

TO SUSANVILLE

PARKING

HWY

395

HONEY LAKE SAFETY
ROADSIDE REST AREA

TO MILFORD



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	37	106

Jerome R. Gault 02-24-15
 REGISTERED CIVIL ENGINEER DATE
 6-22-15
 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
J. Marcotte
 No. C36844
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA

ACCESSIBILITY DESIGN APPROVAL STAMP
DOT / DES / OTA

PROJECT ID
0212000033

* EXEMPT

Reviewed by: *[Signature]*
Date: 02-24-15

CALIFORNIA STATE FIRE MARSHAL
APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *[Signature]*
ANDREW MCSORELY
Approval date: 02-19-15
SFM FILE # 01-18-11-0003-000

* PER 2013 CBC SECTIONS 11B-202.4 EXEMPTION 7 AND 11B-203.5. ALSO REFER TO STD EXEMPTION DOC. ON FILE

DESIGN	BY Andy Quan	CHECKED G Panuschka
DETAILS	BY Jim Stangl/A Quan	CHECKED G Panuschka
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 07R0003
POST MILE 49.6

HONEY LAKE SRRA
LOCATION MAP

SHEET GP-1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

8-01-13	9-27-13	12-13-13	2-14-14	9-08-14	2-24-15
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SHEET OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	38	106
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER			02-24-15 DATE		
6-22-15 PLANS APPROVAL DATE			<i>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.</i>		

APPLICABLE BUILDING CODES:

- 2010 AMERICANS WITH DISABILITIES ACT (ADA) STDS
- 2013 CA BUILDING CODE (CBC) TITLE 24, PT2
- 2013 CA ELECTRICAL CODE (CEC) TITLE 24, PT3
- 2013 CA PLUMBING CODE (CPC) TITLE 24, PT5
- 2013 CA FIRE CODE (CFC) TITLE 24, PT9
- AMERICAN WATER WORKS ASSOCIATION (AWWA) A100-06
- NFPA 30 (2012)
- NFPA 37 (2010)
- NFPA 70 (2011)
- NFPA 110 (2013)

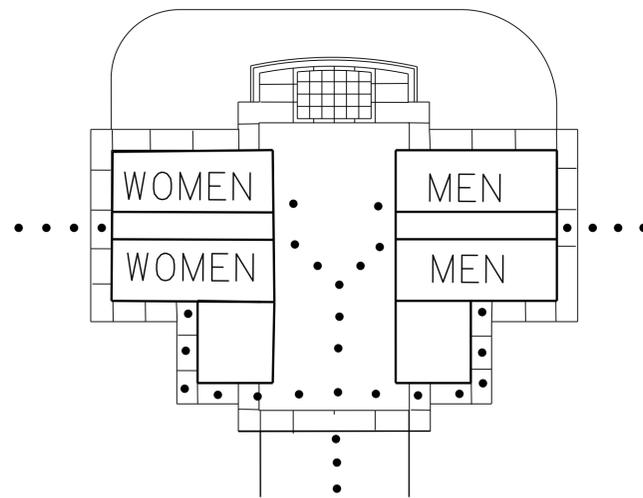
BUILDING ANALYSIS:

- | | |
|--|-----------|
| 1. Occupancy classification | B |
| 2. Building construction type | Type V-B |
| 3. Number of stories | 1 |
| 4. Actual building height | 12.6 ft |
| 5. Building area | 2,832 sf |
| 6. Project area | 10,000 sf |
| 7. Separated or Non-separated use | N/A |
| 8. Allowable area (per CBC) | 9,000 sf |
| 9. Area increase | N/A |
| 10. Height increase | N/A |
| 11. Fire sprinklers | No |
| 12. Fire alarm | No |
| 13. Other fire protection system | No |
| 14. Smoke control system | No |
| 15. Occupant load for entire building | 18 |
| 16. Year building was constructed | 2007 |
| 17. In a high fire hazard severity zone? | No |
| 18. Seismic joints? | N/A |
| 19. Emergency responder radio coverage | Yes |

SCOPE OF WORK:

1. Install new 80-kV generator
3. Install new pressure tank inside building
4. Install new water lines from well to building
5. Install new sewer lines from building to urine tank
6. Pump out existing septic tank and abandon in place
7. Install new septic treatment system and equipment
8. Modify existing main switchboard
9. Install SCADA system for remote monitoring and operation

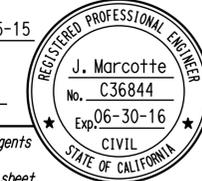
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 02-19-15
 SFM FILE # 01-18-11-0003-000



EXIT ROUTE PLAN

NO SCALE

DESIGN BY Andy Quan	CHECKED G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE No. 07R0003 POST MILE 49.6	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS		SHEET GP-2			
				DETAILS BY Jim Stangl/A Quan	CHECKED G Panuschka		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	HONEY LAKE SRRA	MISC INFO
				QUANTITIES BY	CHECKED			DISREGARD PRINTS BEARING EARLIER REVISION DATES → 2-24-15	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF				

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	39	106
 REGISTERED CIVIL ENGINEER			05-15-15 DATE		
6-22-15 PLANS APPROVAL DATE					
<i>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.</i>					

ABBREVIATIONS

AB	AGGREGATE BASE	IN	INCH
B	BUNG	JB	JUNCTION BOX
BLDG	BUILDING	KW	KILOWATT
C	CONDUIT	L	LENGTH
C-C	CENTER TO CENTER	LB	POUND
CFS	CUBIC FEET PER SECOND	LT	LEFT
CI	CAST IRON	MAX	MAXIMUM
CL	CHAIN LINK	MBV	MOTORIZED BALL VALVE
CMU	CONCRETE MASONRY UNIT	MH	MANHOLE
CONC	CONCRETE	MIN	MINIMUM
COTF	CLEANOUT TO FLOOR	MINS	MINUTES
COTG	CLEANOUT TO GRADE	N	NORTH
CPLG	COUPLING	(N)	NEW
CSP	CORRUGATED STEEL PIPE	NB	NORTHBOUND
D	DRIP IRRIGATION	NO	NUMBER
DI	DRAIN INLET	OC	ON CENTER
DIA	DIAMETER	OD	OUTSIDE DIAMETER
DIP	DUCTILE IRON PIPE	OG	ORIGINAL GROUND
DP	DRAIN PIPE	P	PITCH
E	ELECTRICAL	PCC	PORTLAND CEMENT CONCRETE
(E)	EXISTING	PH	PHASE
EA	EACH	PLC	PROGRAMMABLE LOGIC CONTROLLER
EL	ELEVATION	PVC	POLYVINYL CHLORIDE
EP	EDGE OF PAVEMENT	R	RADIUS
EQ	EQUAL	RCP	REINFORCED CONCRETE PIPE
FOB	FACE OF BUILDING	REQ	REQUIRED
FF	FINISH FLOOR	RPM	REVOLUTIONS PER MINUTE
FG	FINISH GRADE	RT	RIGHT
FH	FIRE HYDRANT	R/W	RIGHT-OF-WAY
FM	FORCE MAIN	S	SLOPE
FOC	FACE OF CONCRETE	SB	SOUTHBOUND
FS	FLOW SWITCH	SCH	SCHEDULE
FT	FEET	SD	STORM DRAIN
GA	GAUGE	SP	SEWAGE PIPE
GAC	GRANULAR ACTIVATED CARBON	SQ	SQUARE
GAL	GALLON	STA	STATION
GPM	GALLONS PER MINUTE	STD	STANDARD
GALV	GALVANIZED	TBM	TEMPORARY BENCH MARK
GSP	GALVANIZED STEEL PIPE	TOC	TOP OF CONCRETE
GV	GATE VALVE	TOT	TOTAL
H	HEIGHT	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE	UR	URINAL
HF	HOSE FAUCET	VAC	VOLTS AC
HMA	HOT MIX ASPHALT	W	WATER
HP	HORSEPOWER	W/O	WITHOUT
HZ	HERTZ	WP	WATER PIPE
ID	INSIDE DIAMETER	WSP	WELDED STEEL PIPE
IE	INVERT ELEVATION (IN FEET)		

LEGEND

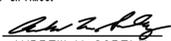
	FENCE		DETAIL SHEET NUMBER
	SURFACE DRAINAGE	99.00	NEW GRADE IN FEET
	ABANDON	X (100.00)	EXISTING SPOT GRADE IN FEET
	SANITARY SEWER		BENCHMARK ELEVATION
	DRAIN		CENTERLINE
	VENT		DIAMETER
	WATER		SECTION / ELEVATION LETTER SHEET NUMBER
	FORCE MAIN		TREE
	LEACH LINES		DIRECTION OF TRAFFIC
			MANHOLE
			COTG
		<XXXX>	PLC TAG - SEE ELECTRICAL SHEETS

GENERAL WORK NOTES

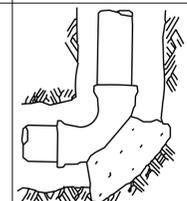
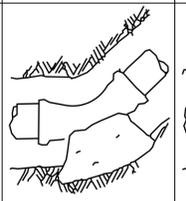
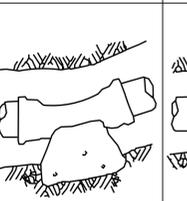
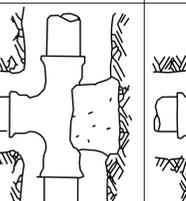
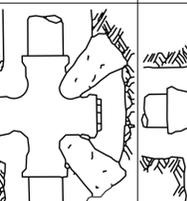
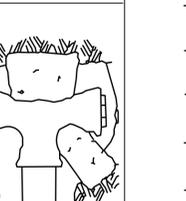
- Verify all controlling field dimensions and conditions before ordering or fabricating any materials.
- Verify exact location of all underground facilities and utilities prior to start of construction.
- No 90° bends allowed on drain or sewage pipe. Where 90° bends are shown, use two 45° bends.

CALIFORNIA STATE FIRE MARSHAL APPROVED

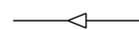
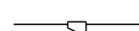
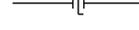
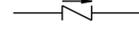
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Reviewed by: 
 ANDREW MCSORELY
 Approval date: 02-19-15
 SFM FILE # 01-18-11-0003-000

THRUST BLOCK PLACEMENT ON PIPE FITTINGS*

Type of Fitting	90° Bend	45° Bend	11 1/4° or 22 1/2° Bend	Tee or Dead end	Cross w/plug	Tee w/plug
Typical Installation						

* For thrust block bearing area, refer to CPC IAPMO IS 8.

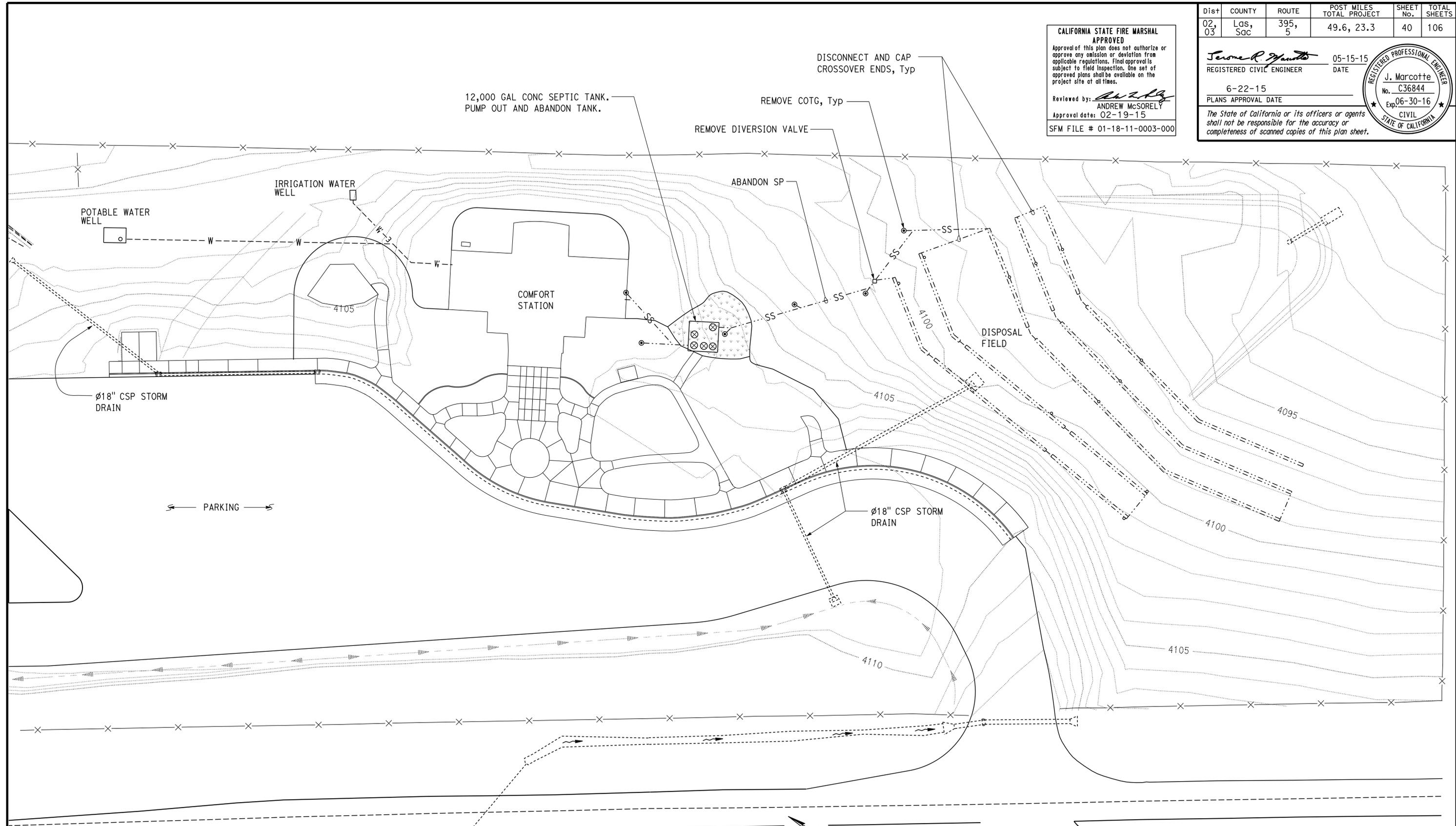
	CAP
	ELBOW, TURNED DOWN
	FLEXIBLE CONNECTOR
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	PRESSURE GAUGE (WITH VALVE AND SNUBBER)
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, CHECK
	VALVE, GATE

THIS PLAN ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN	BY	Andy Quan	CHECKED	G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS	NOTES, LEGEND, AND ABBREVIATIONS	SHEET OF SS-0
	DETAILS	BY	Jim Stangl/A Quan	CHECKED			G Panuschka	POST MILE			
QUANTITIES	BY		CHECKED		UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF	
TAEWW Imperial - CCSC Rev. 02/13		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	6-01-13 9-27-13 2-24-15			P:\dist_02\0212000033_honey_lake_srqa_upgrade\ww\8_FPSE\QC-QA_milestone\ss_00.dgn			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	40	106
<i>Terone R. Marcotte</i>		05-15-15			
REGISTERED CIVIL ENGINEER		DATE			
6-22-15		PLANS APPROVAL DATE			
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Reviewed by: *Andrew McSorely*
ANDREW MCSORELY
Approval date: 02-19-15
SFM FILE # 01-18-11-0003-000



EXISTING SITE PLAN

1" = 30' - 0"

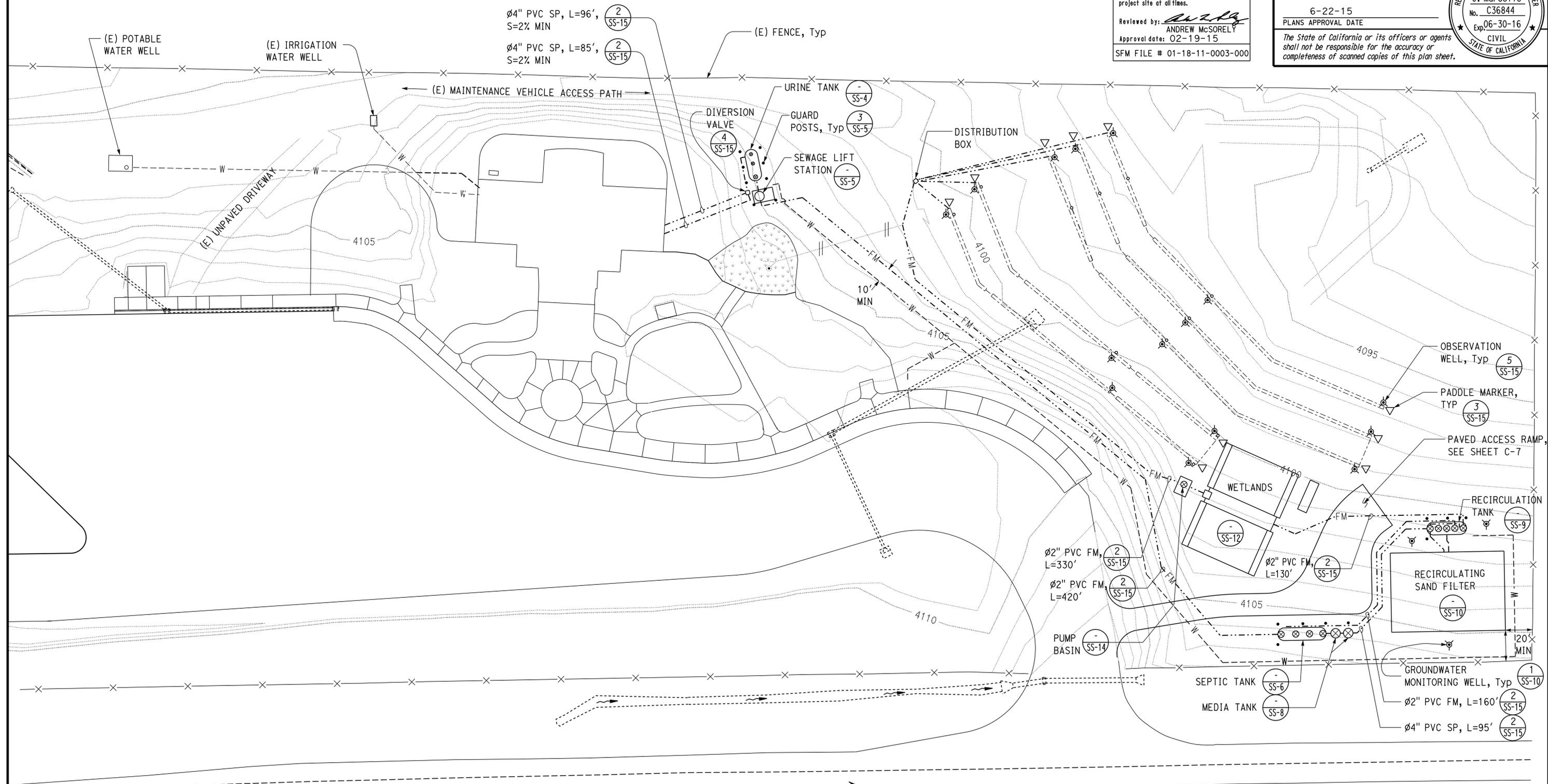
THIS PLAN ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN SUPERVISOR <i>Terone R. Marcotte</i> DESIGN ENGINEER	DESIGN BY Andy Quan	CHECKED G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS EXISTING SITE PLAN	SHEET SS-1 OF
	DETAILS BY Jim Stangl/A Quan	CHECKED G Panuschka			POST MILE 49.6		
QUANTITIES BY	CHECKED		UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 8-01-13 9-27-13 2-13-13 2-14-14 2-24-15
TAEWW Imperial - CCSC Rev. 02/13		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		P:\dist_02\0212000033_honey_lake_srqa_upgrade\ww\8_FPSE\QC-QA_milestone\ss_01.dgn	

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	41	106
<i>Terence R. Yantze</i> REGISTERED CIVIL ENGINEER			05-15-15 DATE	REGISTERED PROFESSIONAL ENGINEER J. Marcotte No. C36844 Exp. 06-30-16 CIVIL STATE OF CALIFORNIA	
6-22-15 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.		

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ANDREW MCSORELY
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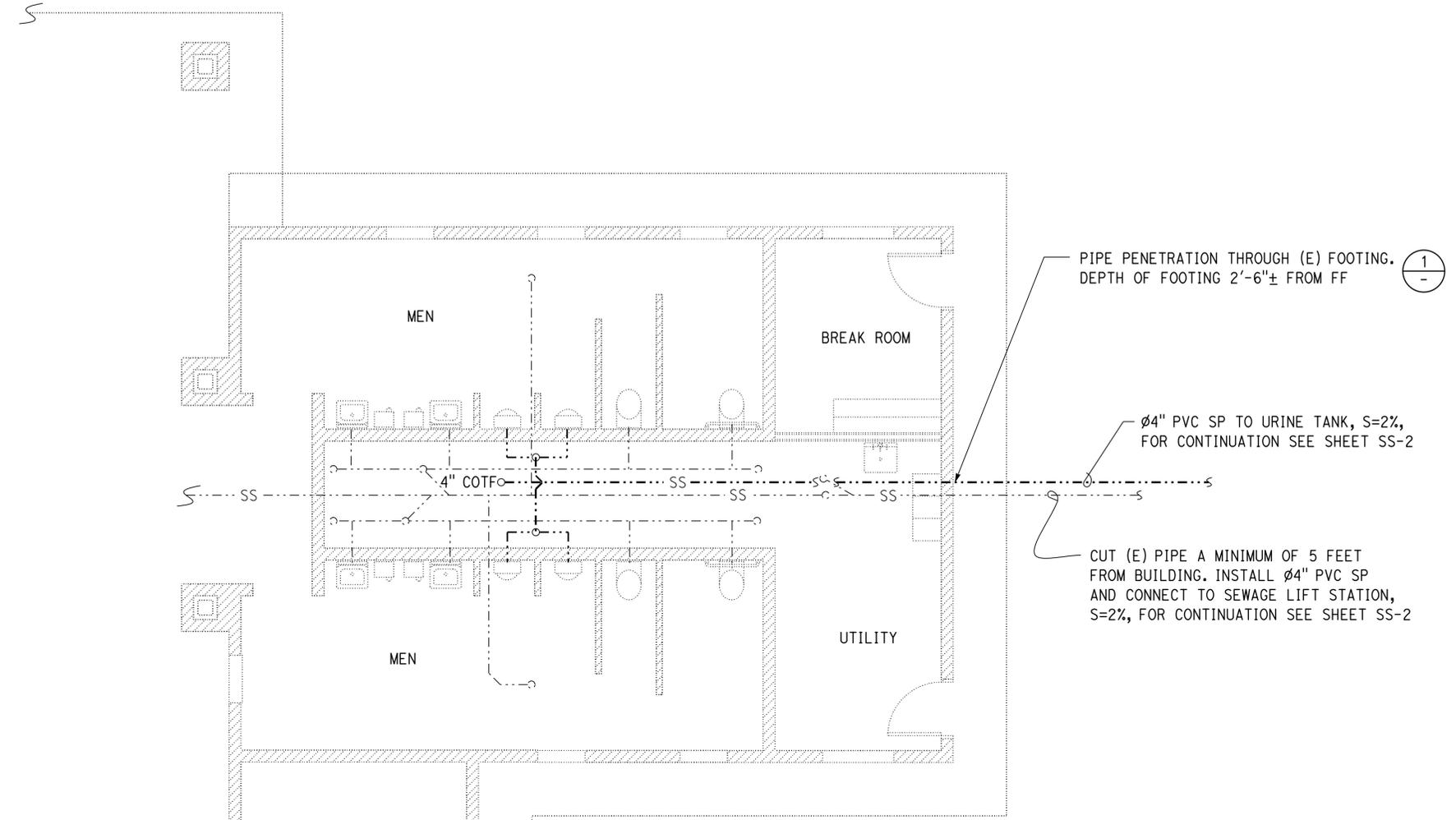
PROPOSED SITE PLAN
 1" = 30'-0"

THIS PLAN ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN BY: Andy Quan CHECKED: G Panuschka DETAILS BY: Jim Stangl/A Quan CHECKED: G Panuschka QUANTITIES BY: _____ CHECKED: _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	HONEY LAKE SRRA WASTEWATER IMPROVEMENTS		SHEET SS-2
			POST MILE 49.6	HONEY LAKE SRRA PROPOSED SITE PLAN		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 8-01-13 9-27-13 2-13-14 2-14-14 5-09-14 7-28-14 9-05-14 2-24-15	
TAEWW Imperial - CCSC Rev. 02/13		P:\dist_02\0212000033_honey_lake_srra_upgrade\ww\8_FPSE\QC-QA_milestone\ss_02.dgn		SHEET OF		24-JUN-2015 16:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	42	106
<i>Jerome R. Sparto</i> REGISTERED CIVIL ENGINEER		05-15-15 DATE			
6-22-15 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.			

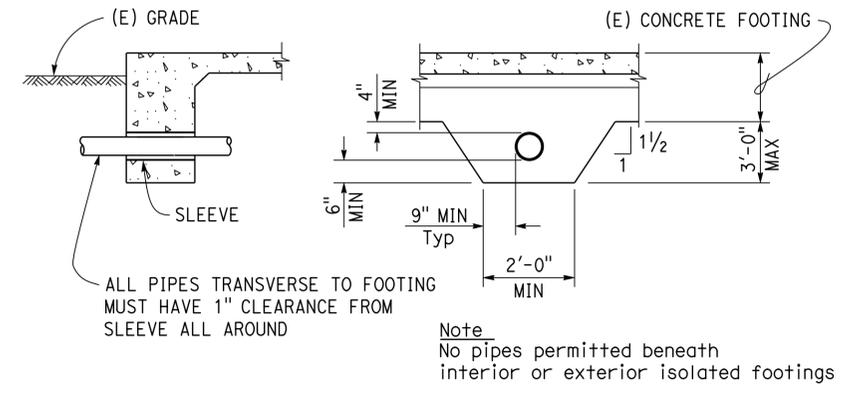
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ANDREW MCSORELY
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PIPE PENETRATION THROUGH (E) FOOTING. DEPTH OF FOOTING 2'-6"± FROM FF

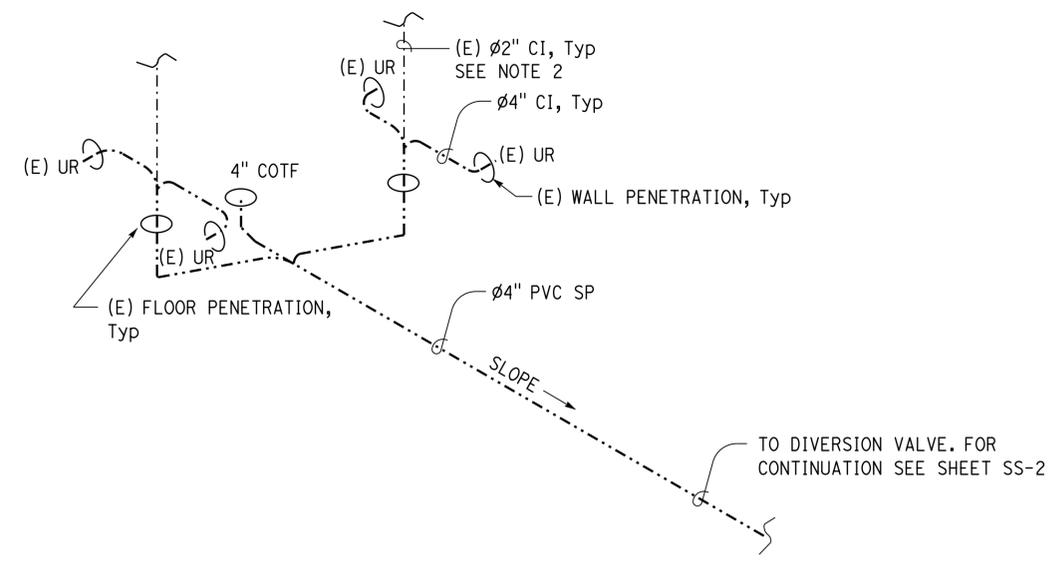
Ø4" PVC SP TO URINE TANK, S=2%, FOR CONTINUATION SEE SHEET SS-2

CUT (E) PIPE A MINIMUM OF 5 FEET FROM BUILDING. INSTALL Ø4" PVC SP AND CONNECT TO SEWAGE LIFT STATION, S=2%, FOR CONTINUATION SEE SHEET SS-2



1 PIPE DETAILS THROUGH (E) FOOTING
 NO SCALE

- Notes:**
1. Finish concrete slab to match existing after sawcut and pipe installation.
 2. Connect to (E) Vent System
 3. Underground piping to penetrate (E) floor and wall to connect (E) urinals.



URINAL ISOMETRIC SCHEMATIC
 NO SCALE

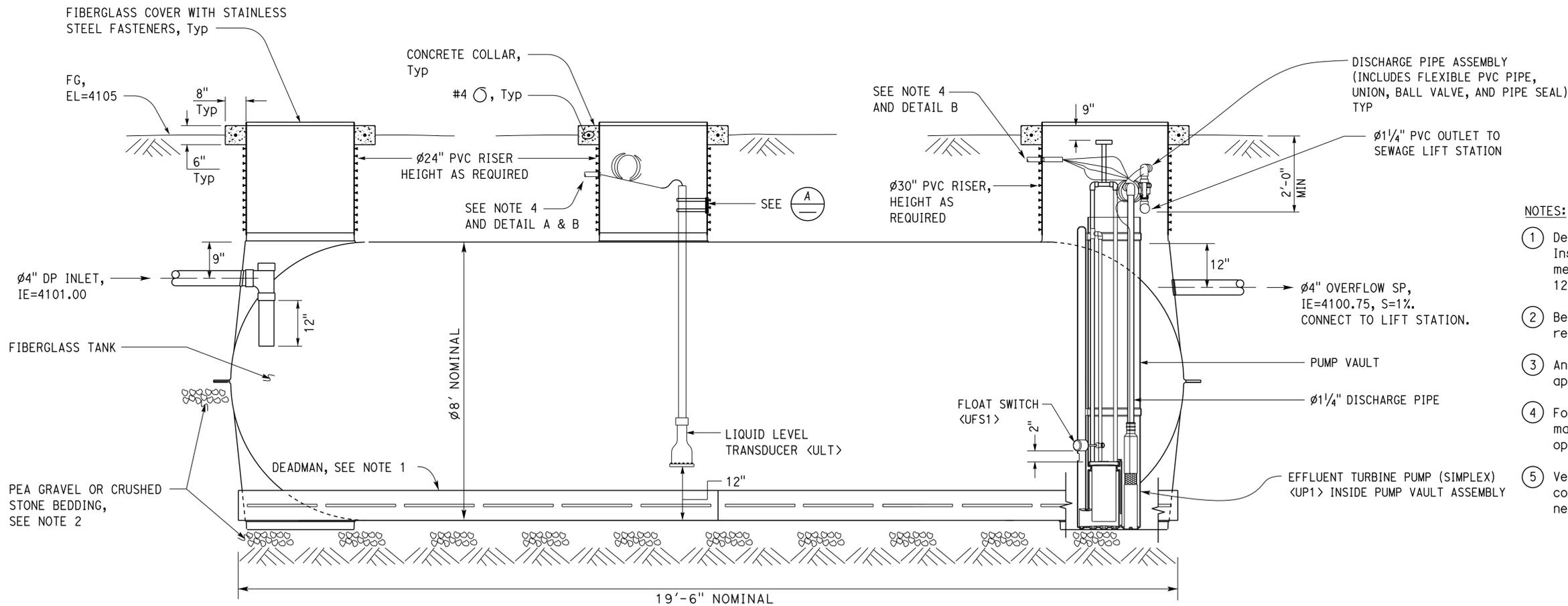
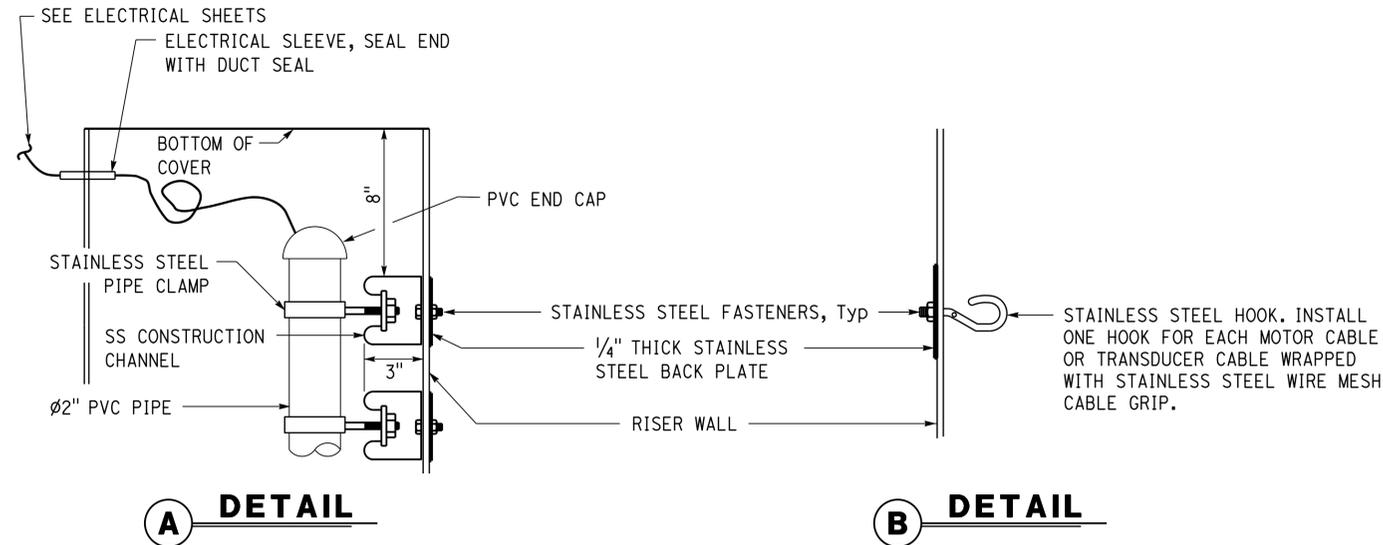
COMFORT STATION PARTIAL FLOOR PLAN
 1/4" = 1'-0"

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DESIGN BY Andy Quan	CHECKED G Panuschka		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS	SHEET SS-3
				POST MILE 49.6		
DETAILS BY Jim Stangl/A Quan	CHECKED G Panuschka	DEPARTMENT OF TRANSPORTATION	WASTEWATER DESIGN	PIPE GALLERY MODIFICATION		OF
QUANTITIES BY	CHECKED			UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331	REVISION DATES (PRELIMINARY STAGE ONLY)	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		DISREGARD PRINTS BEARING EARLIER REVISION DATES		12-13-13 1-28-14 2-24-15		

EQUIPMENT SCHEDULE

EQUIPMENT	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (FT)
EFFLUENT TURBINE PUMP (SIMPLEX) <UP1>	1/3	240	1	10	105
				15	80
				20	40



- NOTES:
- Deadman dimensions may vary by manufacturer. Install deadman per tank manufacturer's recommendations. Height and width of deadman are 12" and 12".
 - Bedding thickness and depth per manufacturer's recommendation.
 - Anchor straps, connectors, and deadman to be approved by tank manufacturer for use with tank.
 - For electrical, see EE-sheets. Follow tank manufacturer's instructions for riser wall openings.
 - Verify location of underground conduits before commencing excavation. Relocate conduits as necessary for proper installation of tanks.

6,000 GALLON TANK - SECTION

NO SCALE

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DESIGN	BY	Andy Quan	CHECKED	G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS		SHEET SS-4
	DETAILS	BY	Jim Stangl/A Quan	CHECKED			G Panuschka	POST MILE	URINE TANK	
QUANTITIES	BY		CHECKED		UNIT: 3616	CONTRACT No.: 02-4E690	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET
					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	PROJECT NUMBER & PHASE: 02120000331	49.6	8-01-13 9-27-13 12-15-13 3-08-14 2-24-15	OF

TAEWW Imperial - CCSC Rev. 02/13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	43	106

Terence R. Yantis 05-15-15
 REGISTERED CIVIL ENGINEER DATE
 6-22-15
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 J. Marcotte
 No. C36844
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 02-19-15
 SFM FILE # 01-18-11-0003-000

24-JUN-2015 16:59

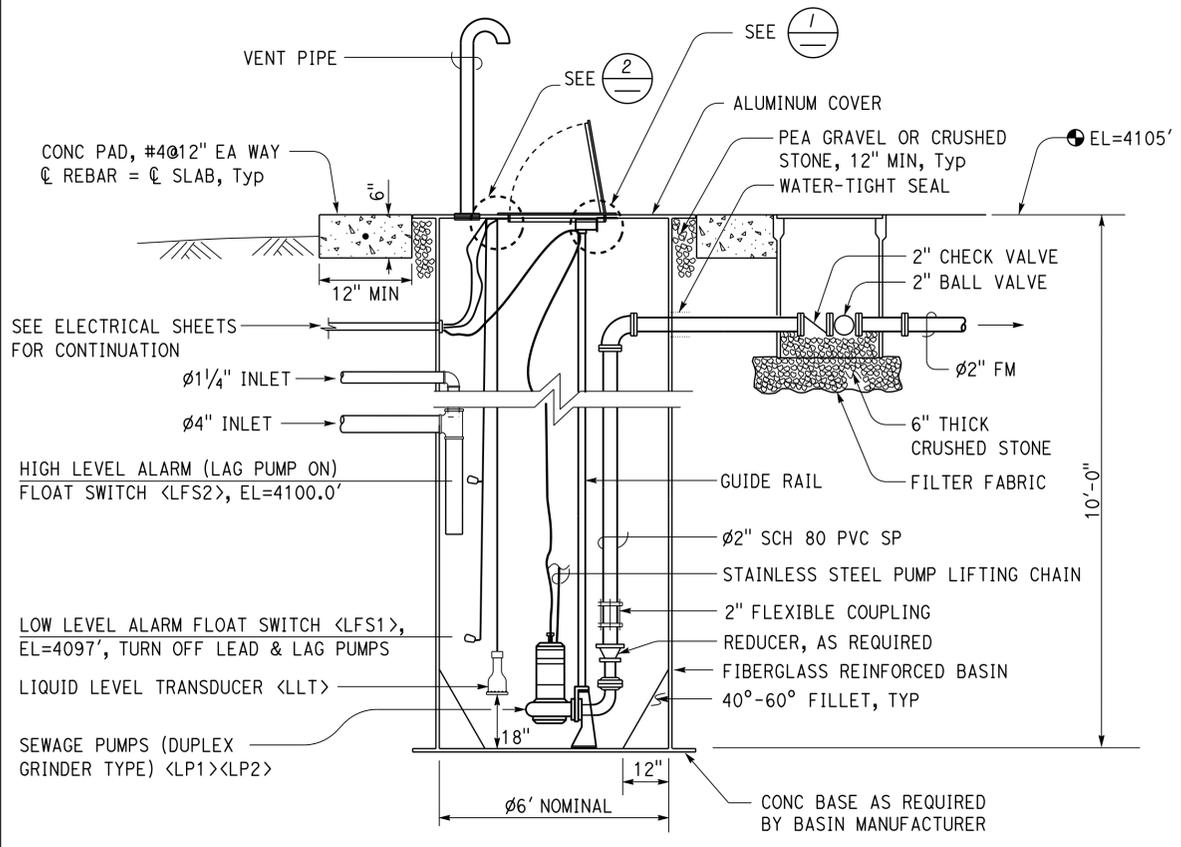
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	44	106

	05-15-15 DATE 6-22-15 PLANS APPROVAL DATE
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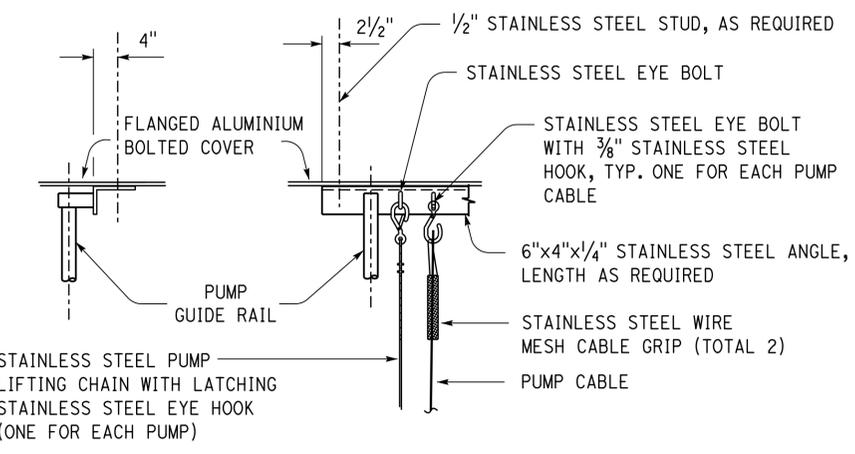
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

EQUIPMENT SCHEDULE					
EQUIPMENT	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (FT)	HP	VOLTS	PHASE
SEWAGE PUMP <LP1>, <LP2>	30	45			
	40	40	2.7	240	1
	50	35			

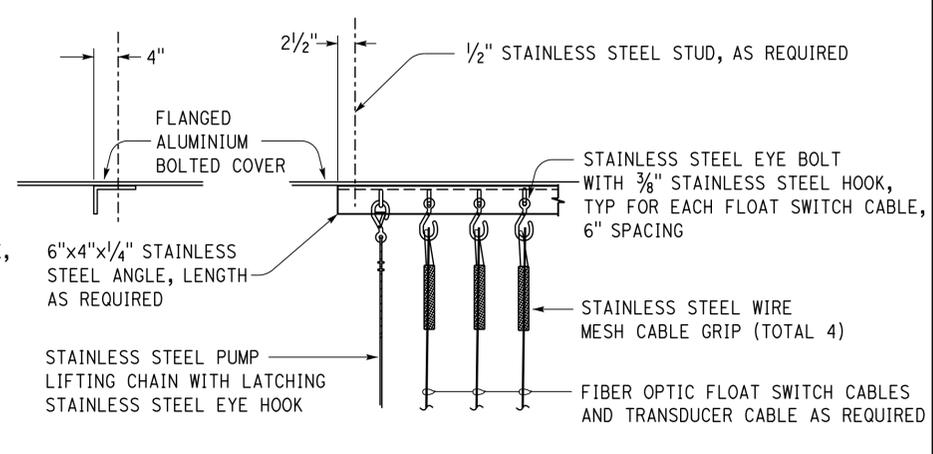
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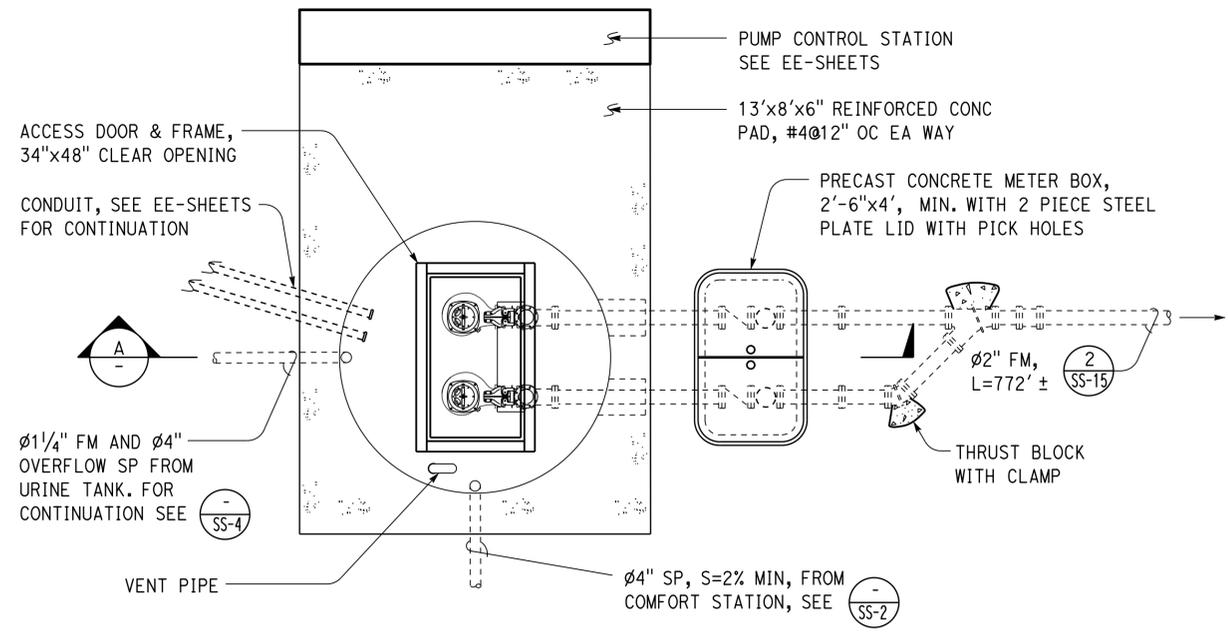
A SECTION
NO SCALE



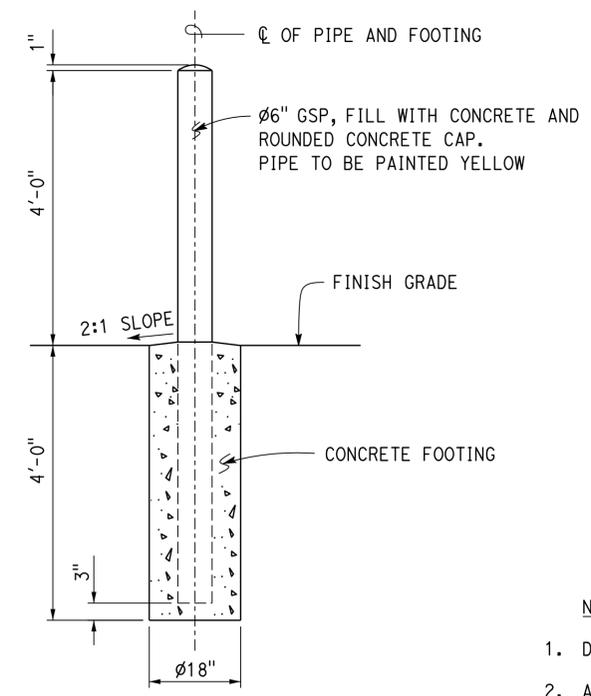
1 SECTION
NO SCALE



2 SECTION
NO SCALE



SEWAGE LIFT STATION
NO SCALE



3 GUARD POST DETAIL
NO SCALE

Notes:

1. Discharge pipe hanger must be stainless steel and attached per manufacturer's instruction.
2. All fastener to aluminium and fiberglass must be devices with stainless steel threaded stud, hex nut and flat washer. Size as required.
3. Cable length must be continuous from motor and floats to junction boxes without splices.
4. Provide 18" thick concrete directly underneath the pump control station. See sheet EE-2.1.

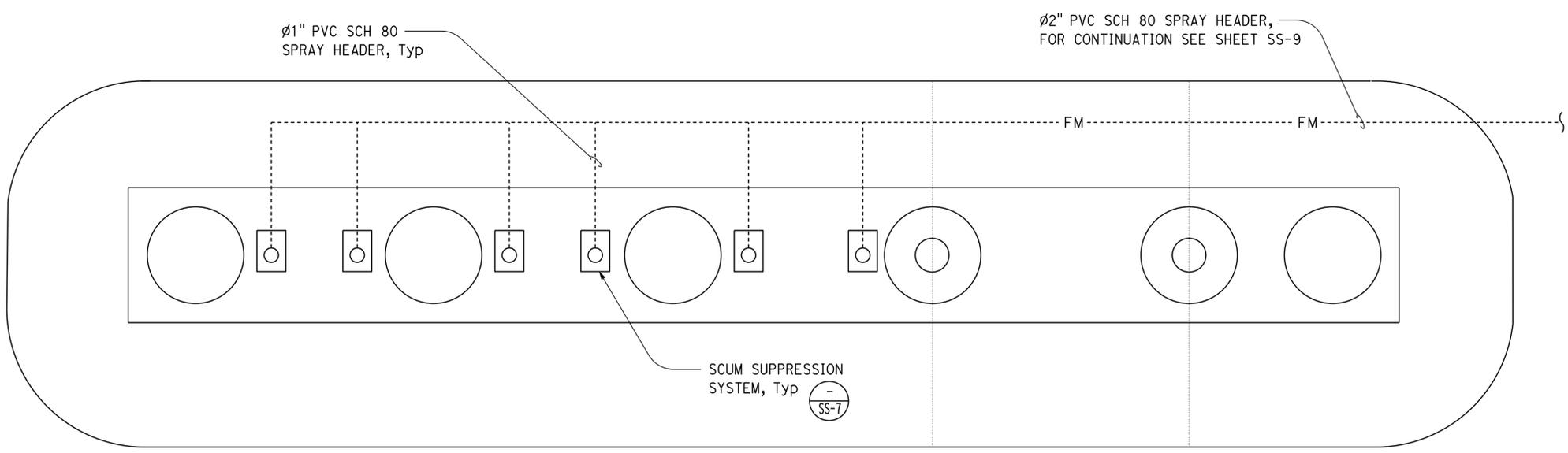
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DESIGN BY Andy Quan CHECKED G Panuschka	DETAILS BY Jim Stangl/A Quan CHECKED G Panuschka	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS		SHEET SS-5
					POST MILE 49.6	HONEY LAKE SRRA	SEWAGE LIFT STATION	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
TAEWW Imperial - CCSC Rev. 02/13					8-01-13 9-27-13 12-13-13 5-08-14 9-18-14 10-18-14 2-24-15		SHEET OF	

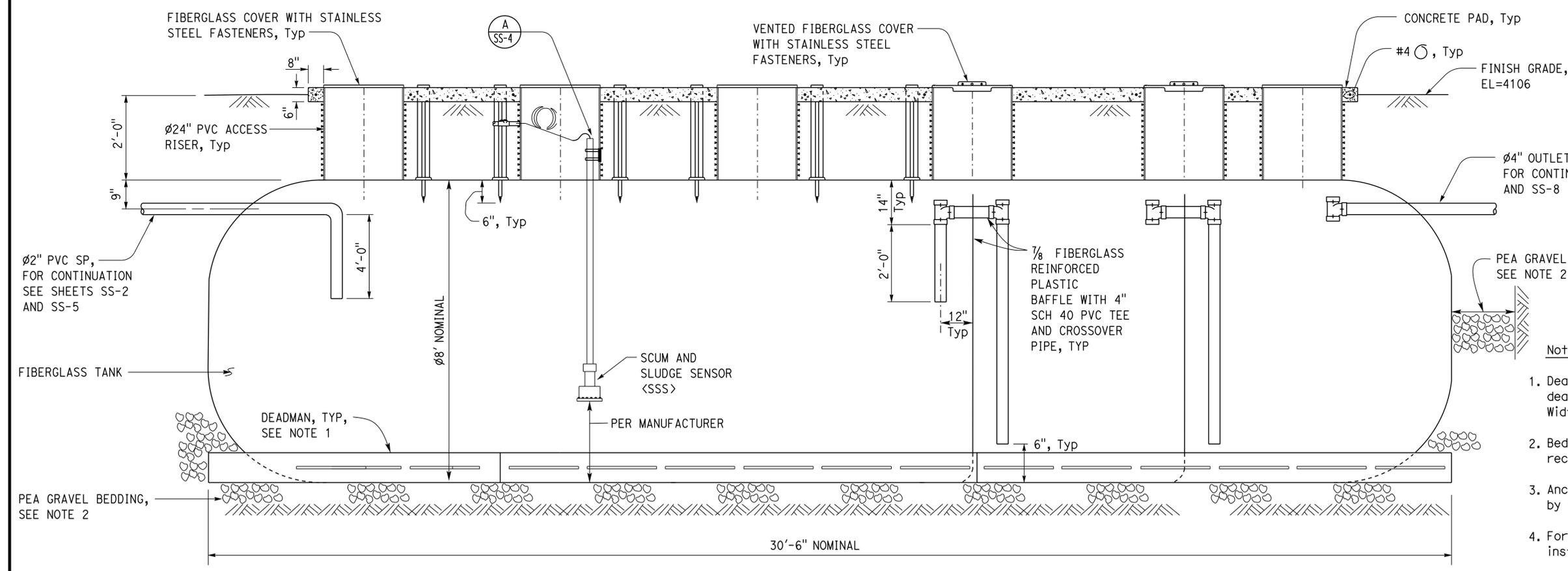
24-JUN-2015 16:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	45	106

<i>Terence R. Gault</i>	05-15-15	
REGISTERED CIVIL ENGINEER	DATE	
6-22-15		PLANS APPROVAL DATE
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PLAN
NO SCALE



10,000 GALLON TANK - SECTION
NO SCALE

- Notes:
1. Deadman dimensions may vary by manufacturer. Install deadman per septic tank manufacturer's recommendations. Width and height of deadman are 12" and 12".
 2. Bedding thickness and depth per manufacturer's recommendation.
 3. Anchor straps, connectors, and deadman to be approved by tank manufacturer for use with tank.
 4. For electrical, See EE-sheets, Follow tank manufacturer's instructions for riser wall openings.
 5. Baffles must be installed at locations to divide tank volume into 6,000 gallons for the inlet compartment, 2,000 gallons for the second, 2,000 gallons for the last compartment. Lengths may vary by manufacturer. Volume is approximate.

THIS PLAN ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN BY Andy Quan CHECKED G Panuschka DETAILS BY Jim Stangl/A Quan CHECKED G Panuschka QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS		SHEET SS-6 OF
			POST MILE 49.6	HONEY LAKE SRRA	SEPTIC TANK	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF
TAEWW Imperial - CCSC Rev. 02/13			REVISION DATES (PRELIMINARY STAGE ONLY)		P:\dist_02\0212000033_honey_lake_srra_upgrade\ww8_FPSE\QC-QA_milestone\ss_06.dgn	

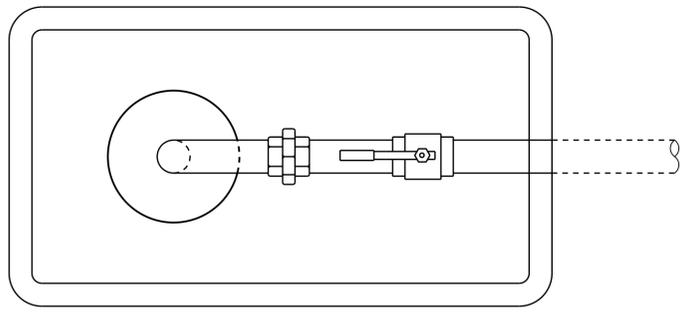
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	46	106

Jerome R. Yantis 05-15-15
 REGISTERED CIVIL ENGINEER DATE
 6-22-15
 PLANS APPROVAL DATE

J. Marcotte
 No. C36844
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA

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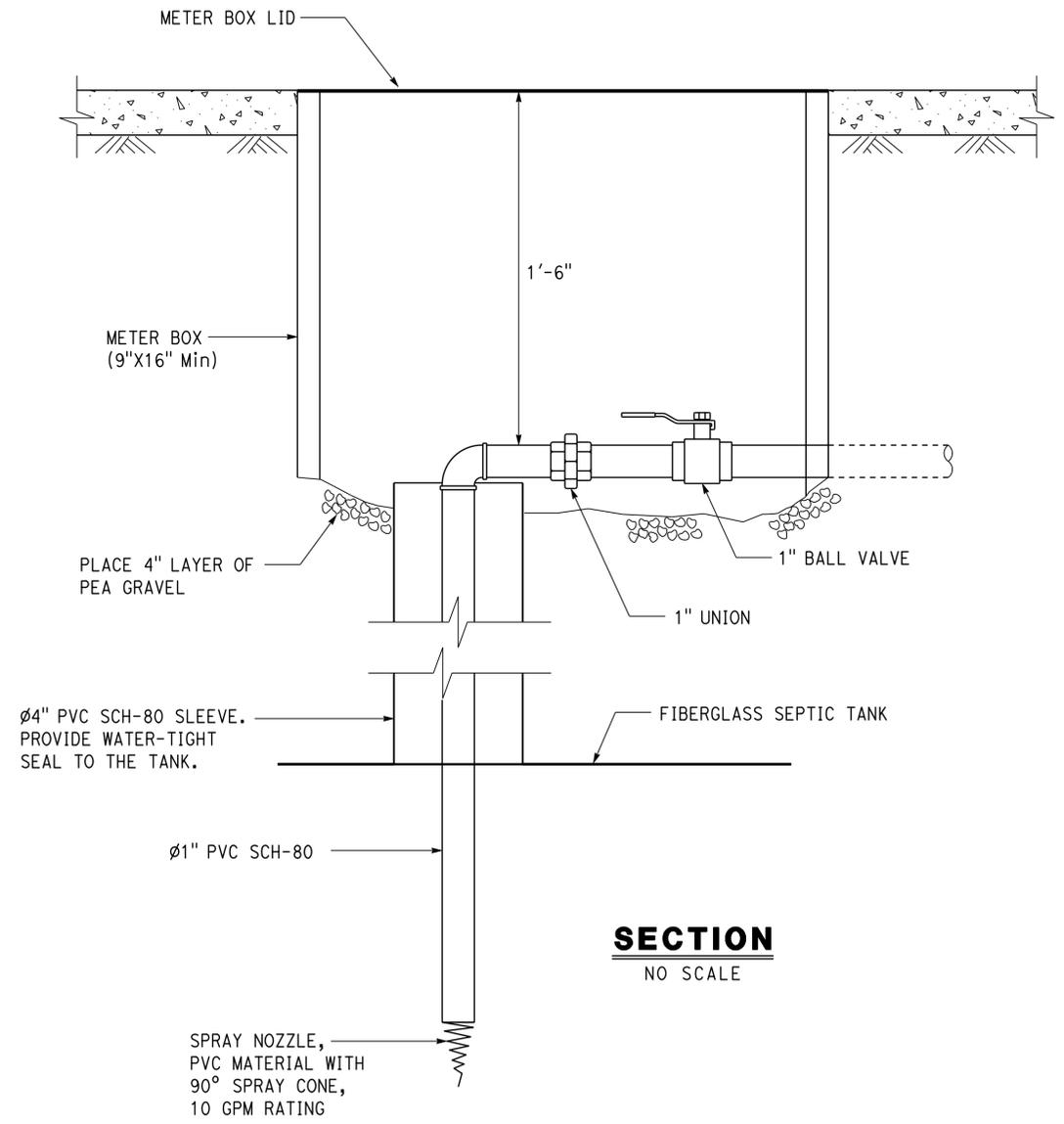


PLAN
NO SCALE

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 02-19-15
 SFM FILE # 01-18-11-0003-000



SECTION
NO SCALE

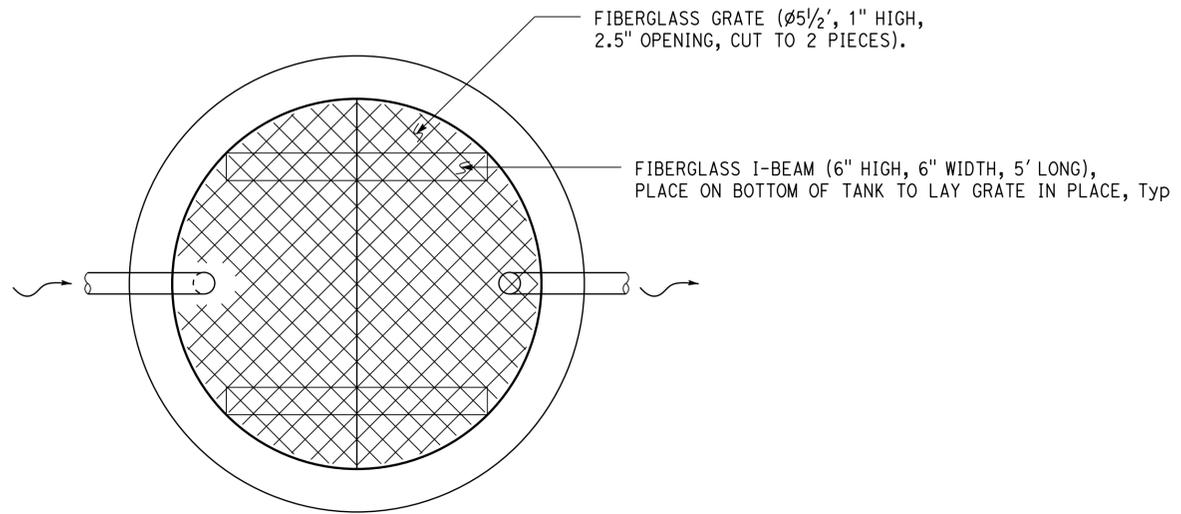
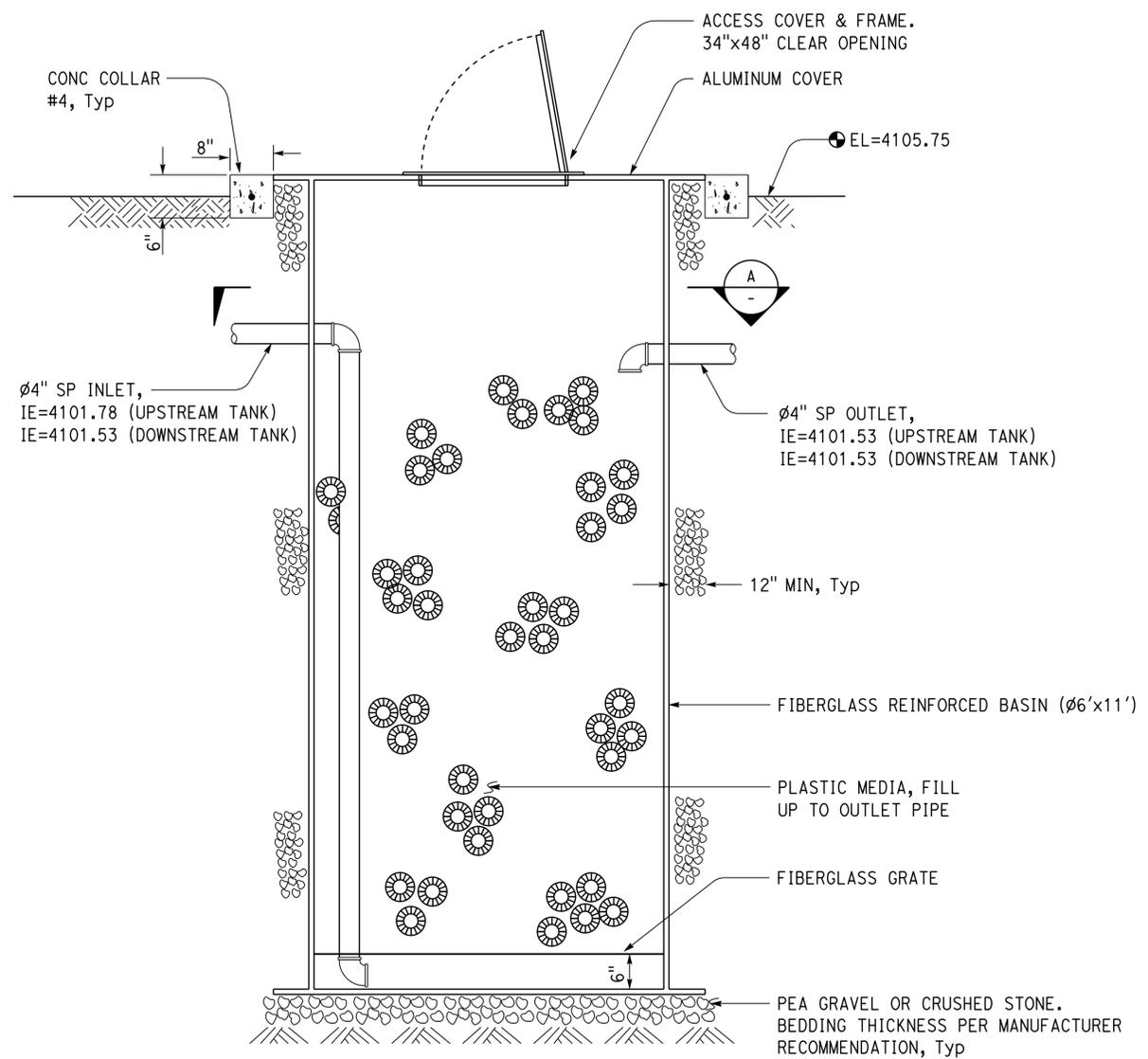
THIS PLAN ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN	BY	Andy Quan	CHECKED	G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS		SHEET SS-7	
	DETAILS	BY	Jim Stangl/A Quan	CHECKED			G Panuschka	07R0003	SCUM SUPPRESSION SYSTEM		
	QUANTITIES	BY		CHECKED				49.6	HONEY LAKE SRRA		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
TAEWW Imperial - CCSC Rev. 02/13								2-14-13	2-24-15		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	47	106

Jerome R. Yantis 05-15-15
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 6-22-15
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REGISTERED PROFESSIONAL ENGINEER
 J. Marcotte
 No. C36844
 Exp. 06-30-16
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 STATE OF CALIFORNIA



SECTION A
NO SCALE

NOTE:
Orient the covers such that they open facing the paved access road for ease in maintenance.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 ANDREW MCSORELY
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DESIGN BY Andy Quan	CHECKED G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS	SHEET SS-8
				07R0003		
DETAILS BY Jim Stangl/A Quan	CHECKED G Panuschka	UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	POST MILE	MEDIA TANK	SHEET OF
QUANTITIES BY	CHECKED			49.6		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	12-13-13	9-08-14	2-24-15	

TAEWW Imperial - CCSC Rev. 02/13
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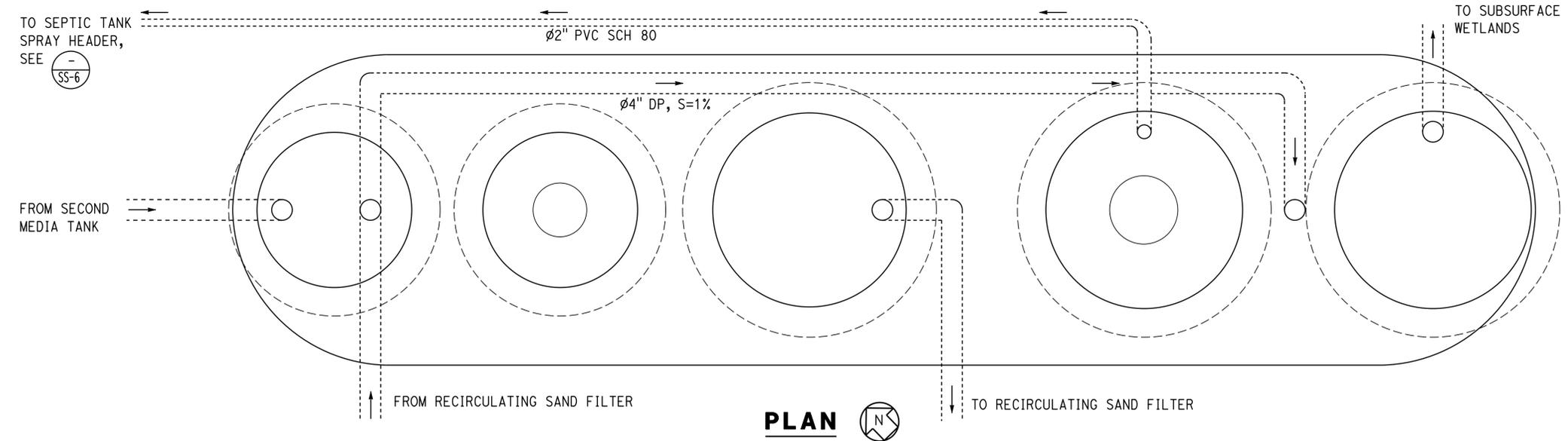
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	48	106

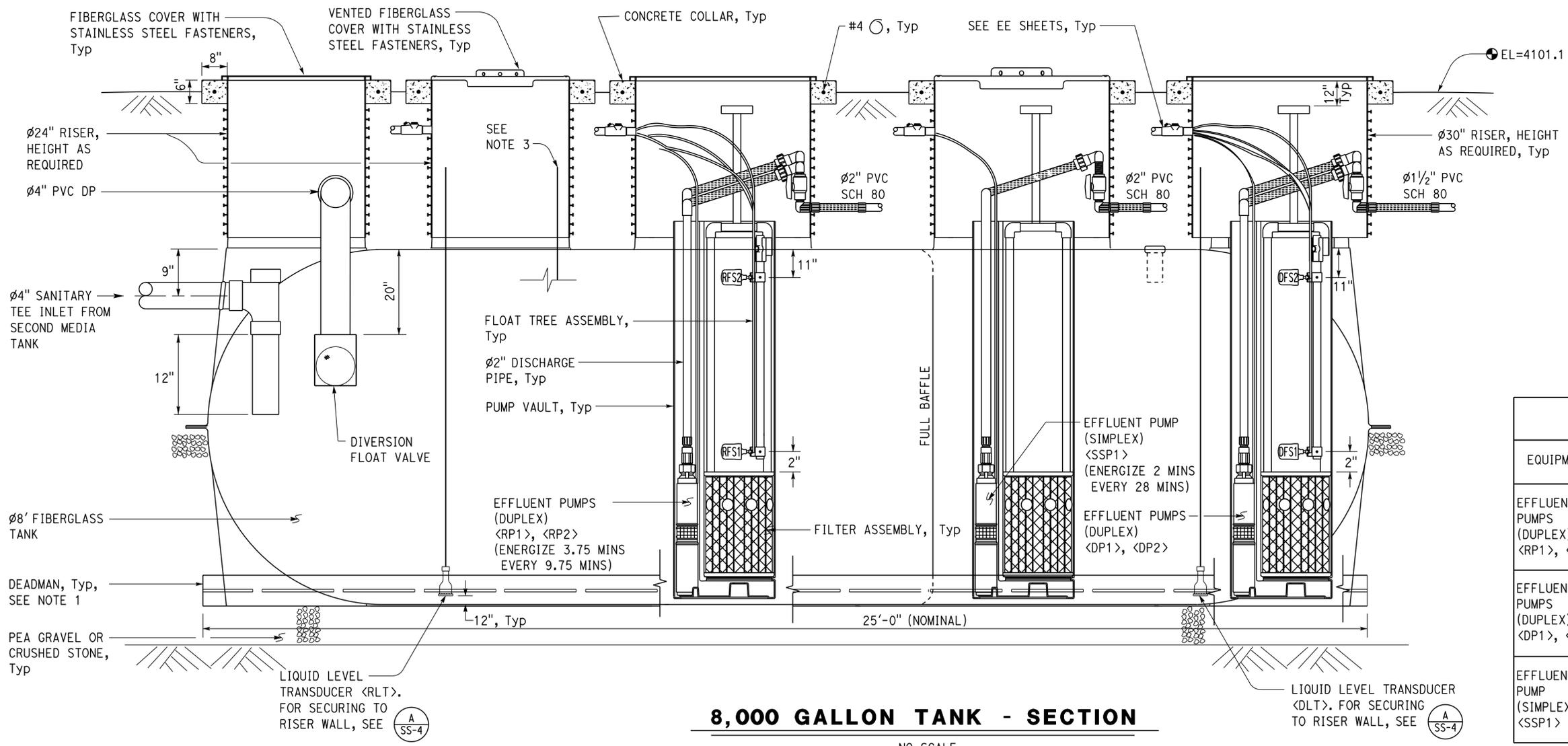
J. Marcotte
 REGISTERED CIVIL ENGINEER
 DATE 05-15-15
 6-22-15
 PLANS APPROVAL DATE
 No. C36844
 Exp. 06-30-16
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 ANDREW MCSORELY
 Approval date: 02-19-15
 SFM FILE # 01-18-11-0003-000



PLAN



8,000 GALLON TANK - SECTION

NO SCALE

Notes

1. Install deadman per tank manufacturer's instructions. Width and height of deadman are 12" and 12".
2. Tank baffles must be installed at locations to divide tank volume into 5,000 gallons for the first compartment and 3,000 gallons for the second compartment. Lengths may vary by manufacturer.
3. Install tank heater in first compartment and secure to riser wall as shown on sheet SS-4 detail A. Connect wiring for proper operation. Heater control panel to be located inside electrical cabinet.
4. Bedding thickness and depth per manufacturer's recommendation.
5. Pump piping and electrical lines are skewed in the section view for clarity.
6. For electrical, see EE-sheets. Follow tank manufacturer's instructions for riser wall openings.

EQUIPMENT SCHEDULE

EQUIPMENT	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (ft)
EFFLUENT PUMPS (DUPLEX) <RP1>, <RP2>	1 1/2	240	1	40	110
				50	95
				60	82
EFFLUENT PUMPS (DUPLEX) <DP1>, <DP2>	1/2	240	1	30	45
				40	40
				50	35
EFFLUENT PUMP (SIMPLEX) <SSP1>	1 1/2	240	1	40	110
				50	95
				60	82

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DESIGN BY Andy Quan	CHECKED G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS RECIRCULATION TANK	SHEET SS-9	
DETAILS BY Jim Stangl/A Quan	CHECKED G Panuschka			POST MILE 49.6		HONEY LAKE SRRA	OF
QUANTITIES BY	CHECKED			49.6		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 8-01-13, 7-25-14, 9-06-14, 2-24-15
 TAEWW Imperial - CCSC Rev. 02/13
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
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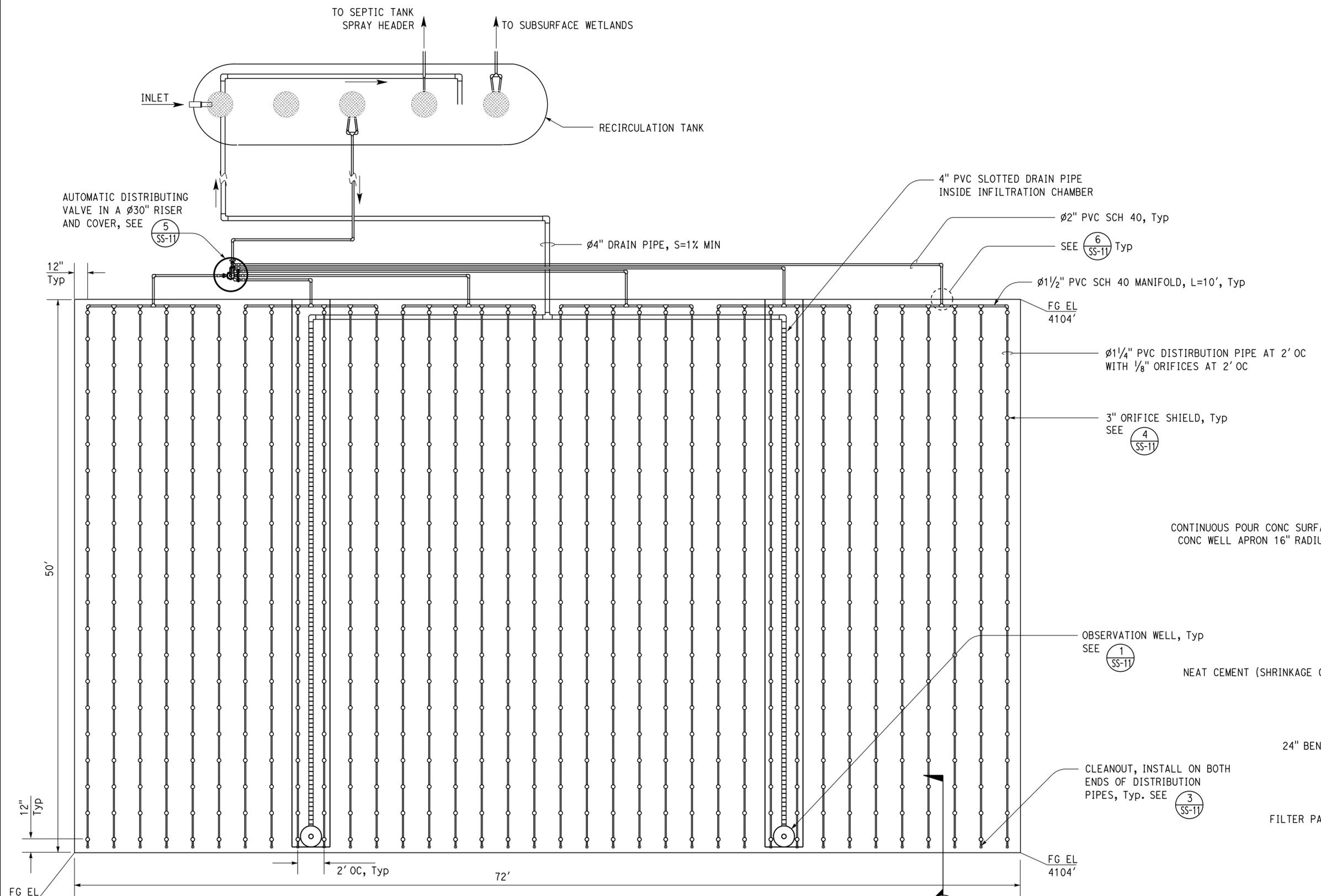
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	49	106

<i>Terence R. Yantis</i>	05-15-15	
REGISTERED CIVIL ENGINEER	DATE	
6-22-15		
PLANS APPROVAL DATE		
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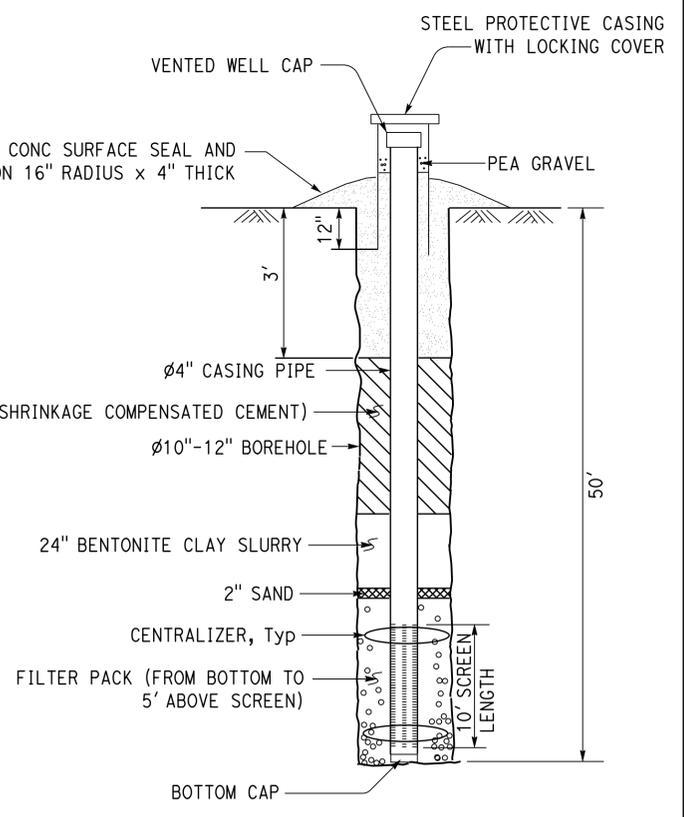
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Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 02-19-15
 SFM FILE # 01-18-11-0003-000



PLAN
NO SCALE



1 GROUNDWATER MONITORING WELL DETAIL
NO SCALE

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DESIGN BY Andy Quan	CHECKED G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRR WASTEWATER SYSTEM IMPROVEMENTS	SHEET SS-10	
DETAILS BY Jim Stangl/A Quan	CHECKED G Panuschka			POST MILE 49.6		HONEY LAKE SRR	RECIRCULATING SAND FILTER
QUANTITIES BY	CHECKED						

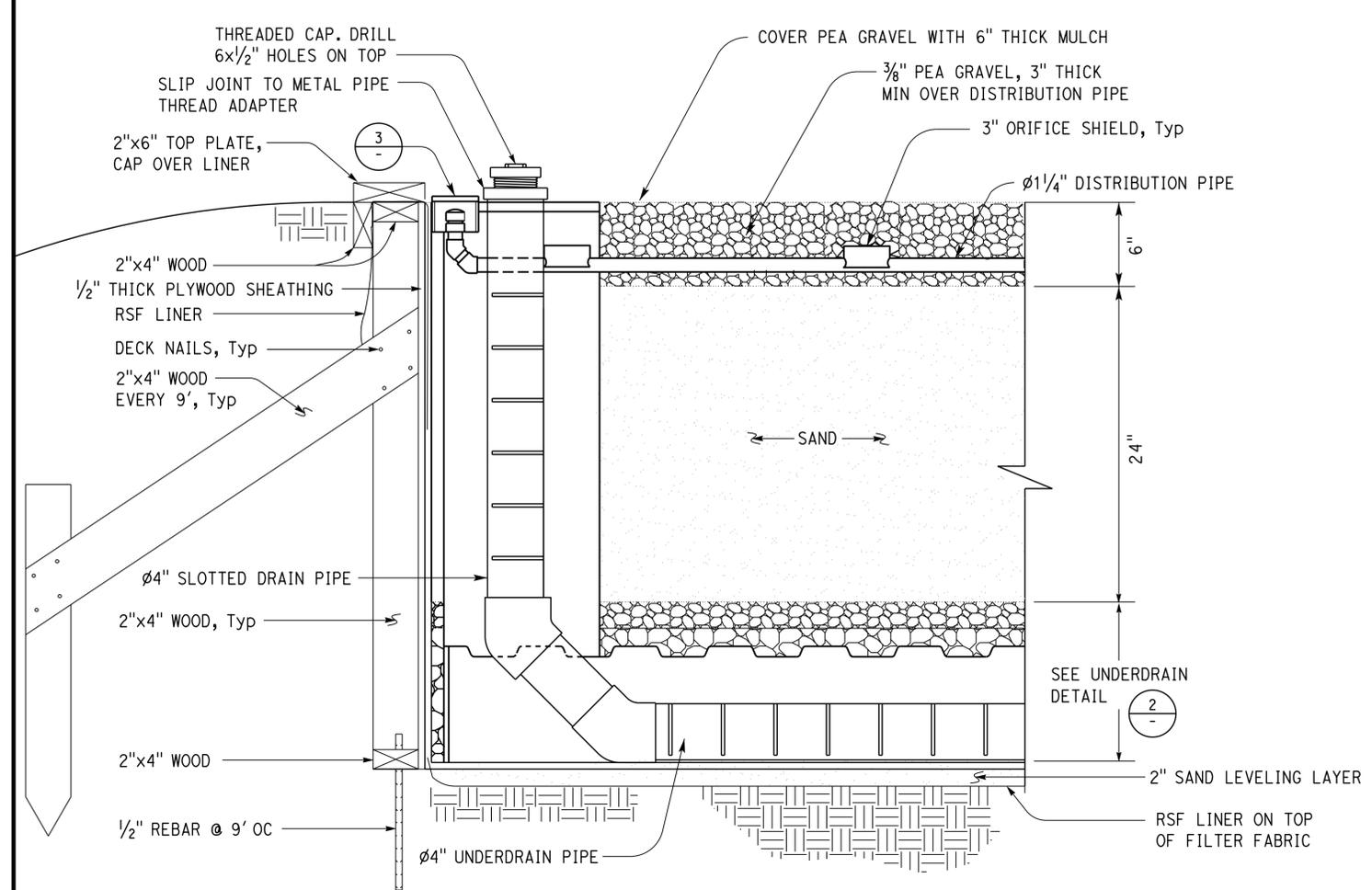
UNIT: 3616	CONTRACT No.: 02-4E690	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
PROJECT NUMBER & PHASE: 0212000331			08-04-13 12-13-13 7-26-14 9-08-14 10-08-14 2-24-15	

TAEMWW Imperial - CCSC Rev. 02/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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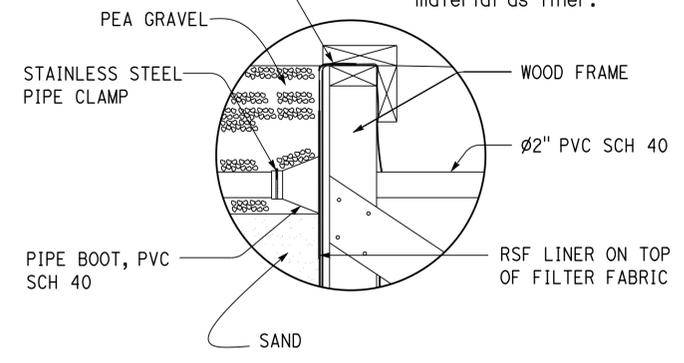
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	50	106

<i>Jerome R. Yant</i>	05-15-15	
REGISTERED CIVIL ENGINEER	DATE	
6-22-15		
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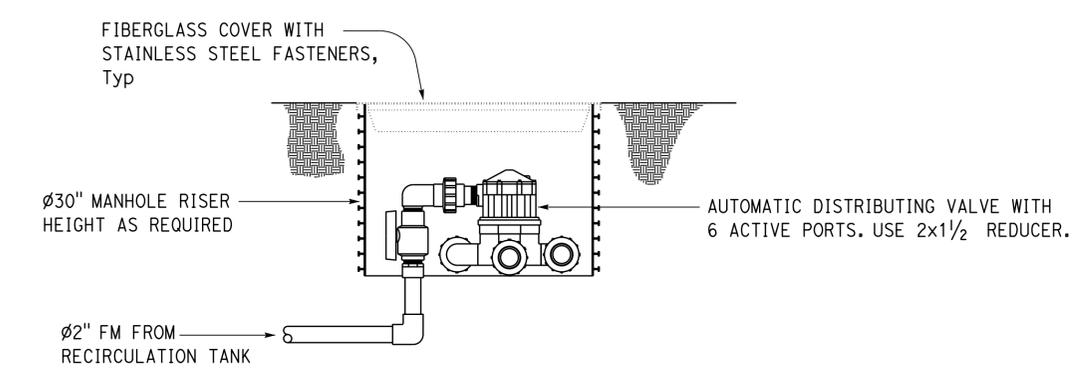
1 RECIRCULATING SAND FILTER - SECTION
NO SCALE

WRAP EXCESS RSF LINER AND FILTER FABRIC OVER THE TOP AND DOWN THE OUTSIDE OF FRAME BEFORE NAILING 2"x6" TOP PLATE AND 2"x4" SIDE BOARD

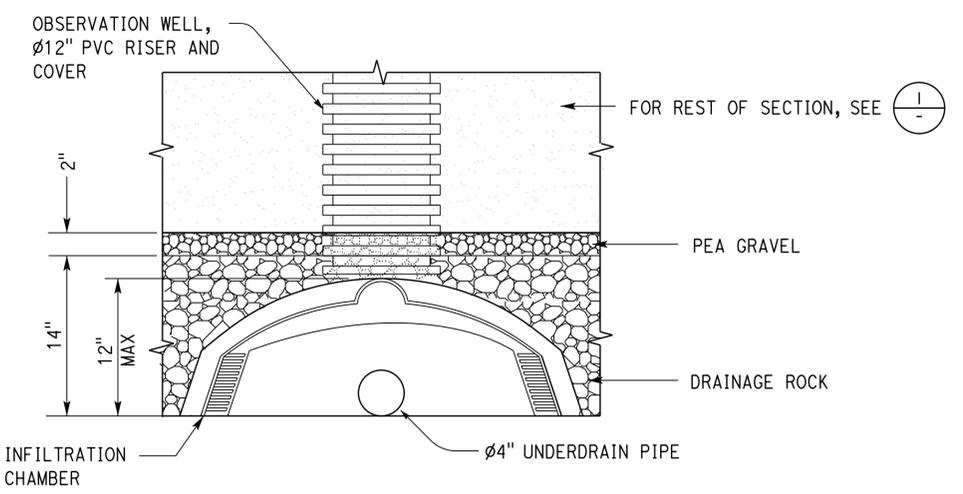


6 PIPE BOOT DETAIL
NO SCALE

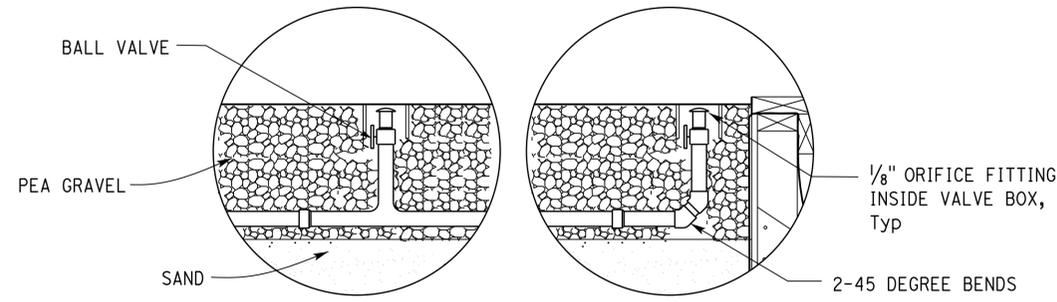
Note:
Boot to be fabricated from same material as liner.



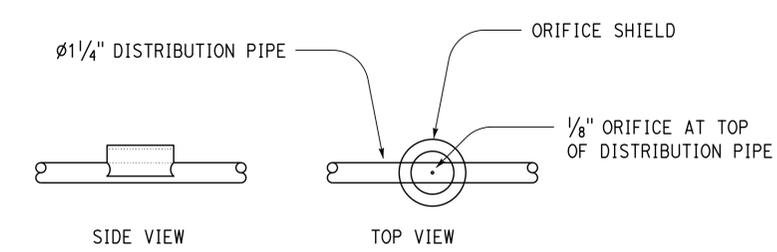
5 AUTOMATIC DISTRIBUTING VALVE
NO SCALE



2 UNDERDRAIN DETAIL
NO SCALE



3 CLEANOUT DETAIL
NO SCALE



4 ORIFICE SHIELD
NO SCALE

Note: For every 7 orifice installed, install one orifice (with shield) pointing downward.

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DESIGN BY Andy Quan	CHECKED G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS		SHEET SS-11
DETAILS BY Jim Stangl/A Quan	CHECKED G Panuschka		POST MILE 49.6	ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	HONEY LAKE SRRA	RECIRCULATING SAND FILTER DETAILS	
QUANTITIES BY	CHECKED		UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

Notes:

- ① Chain in back not shown for clarity. Eye bolts and chains to be stainless steel. Non traffic loading grate to be provided by precast box manufacturer.
- ② Chain. Attach to eye in wall and to pipe with aluminum carabiners. Pipe to rotate 90° supported by chain.
- ③ Slip joint (two). Glue upstream end only so outlet may rotate.
- ④ Seal all pipe penetrations with epoxy grout.

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ANDREW MCSORELY
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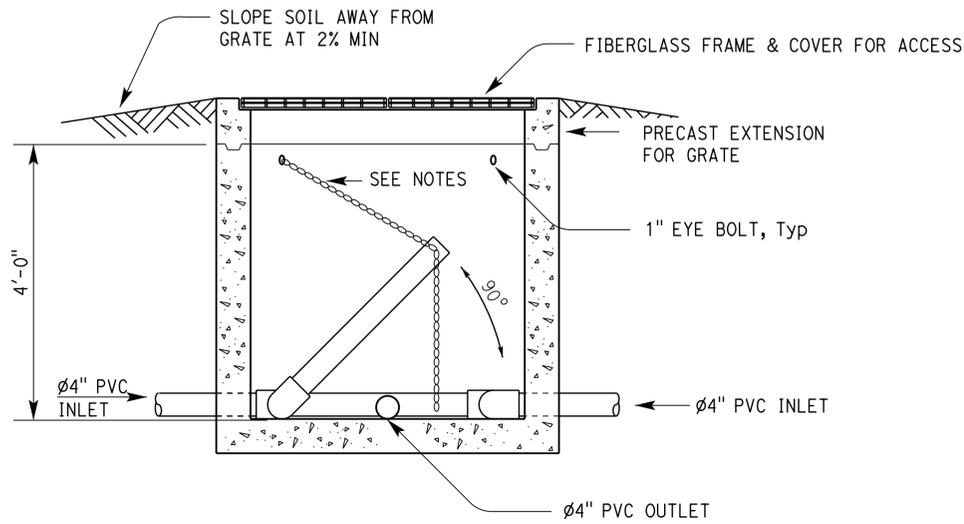
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	51	106

[Signature] 05-15-15
 REGISTERED CIVIL ENGINEER DATE

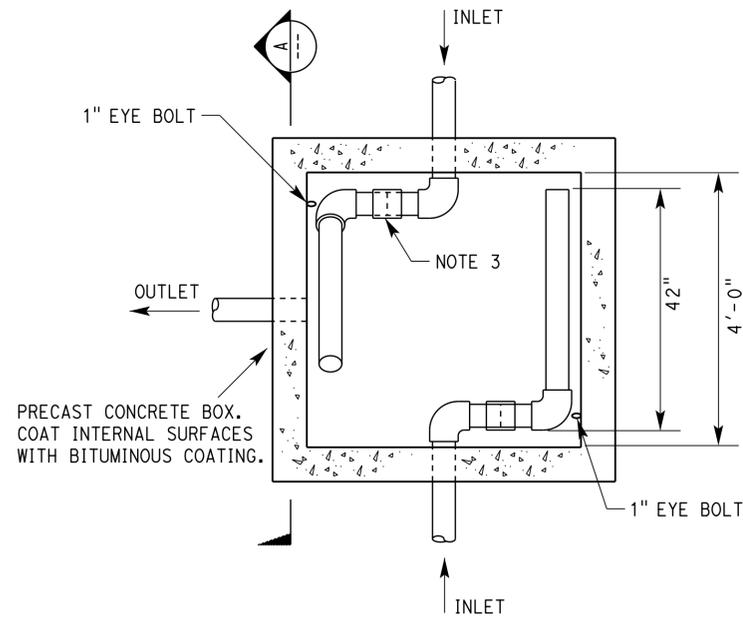
6-22-15
 PLANS APPROVAL DATE

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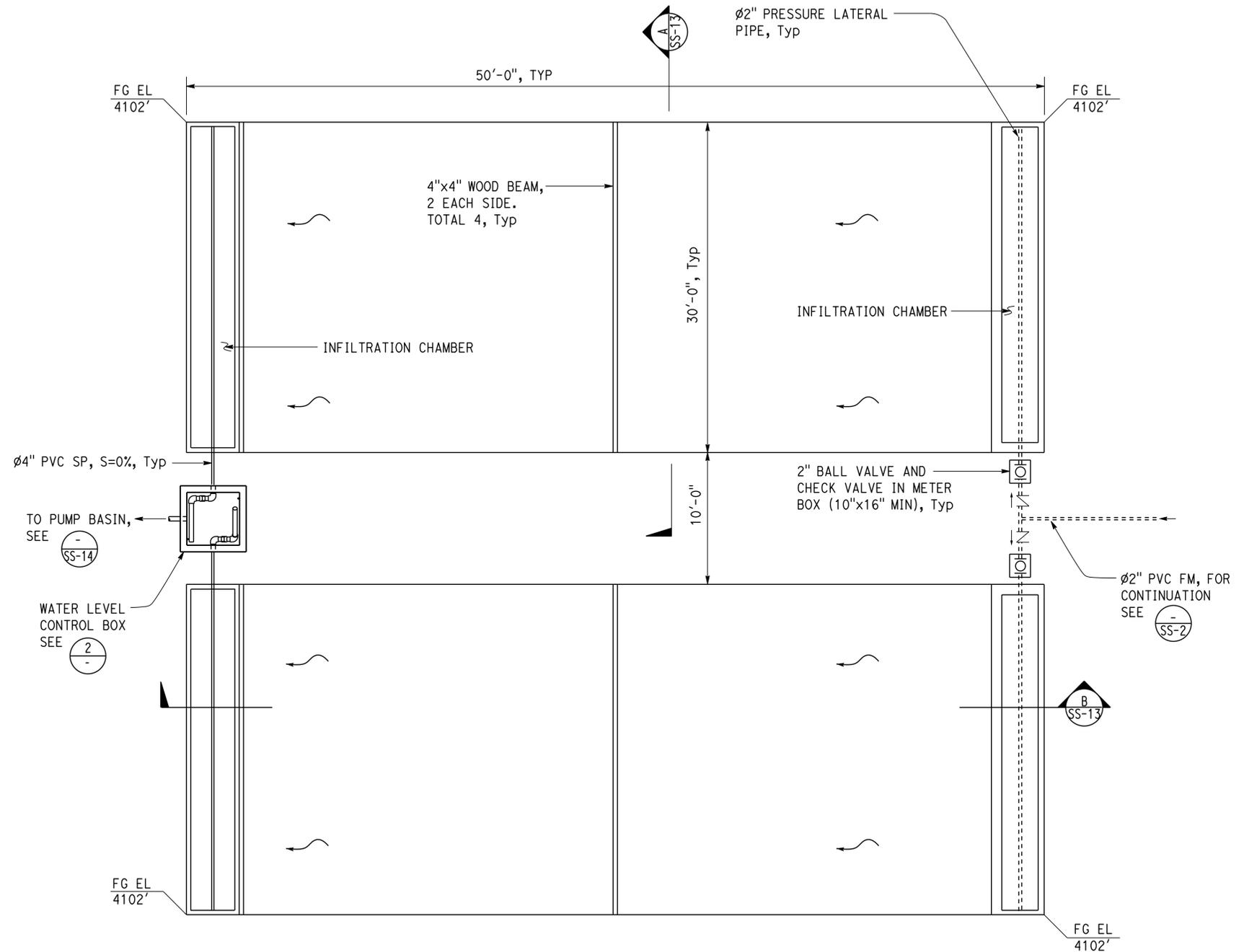


A SECTION



PLAN

2 WATER LEVEL CONTROL BOX
 NO SCALE



1 SUBSURFACE WETLANDS
 NO SCALE

THIS PLAN ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN BY Andy Quan	CHECKED G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS SUBSURFACE WETLANDS	SHEET 51 OF 106
DETAILS BY Jim Stangl/A Quan	CHECKED G Panuschka			POST MILE 49.6		HONEY LAKE SRRA
QUANTITIES BY	CHECKED			49.6		

UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

08-04-13 | 12-13-13 | 2-28-14 | 9-08-14 | 2-24-15

TAEWW Imperial - CCSC Rev. 02/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

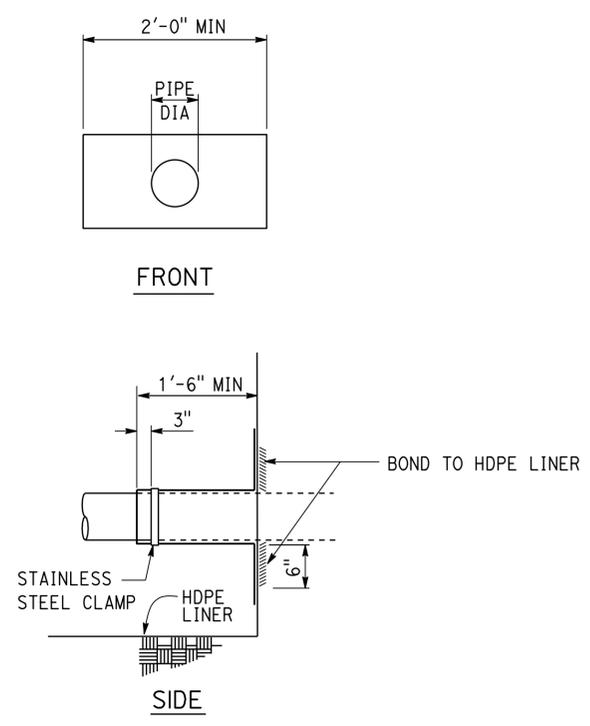
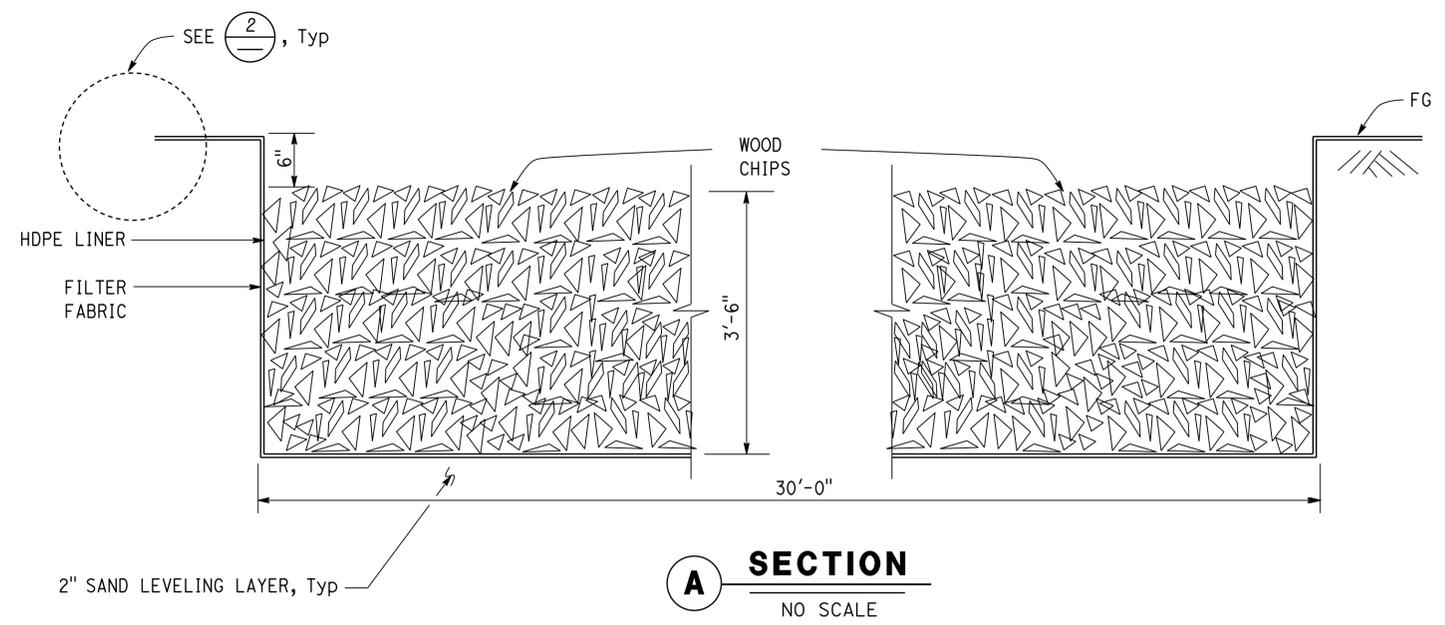
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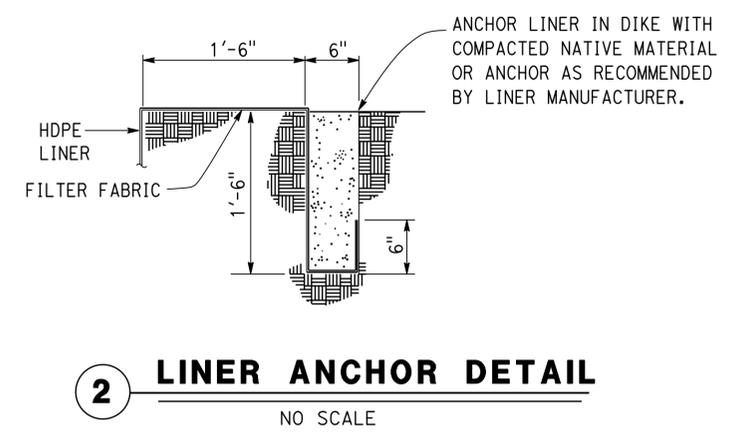
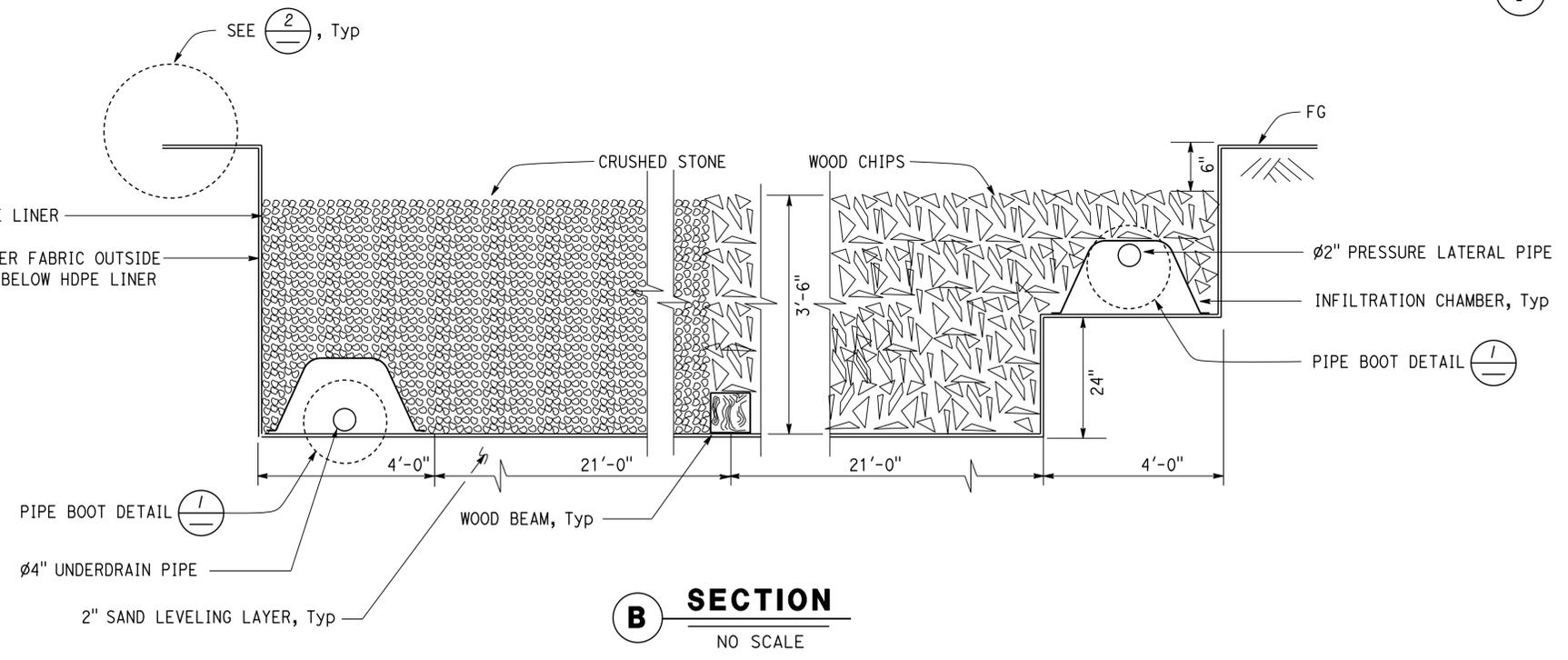
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	52	106

Jerome R. Marcotte
 REGISTERED CIVIL ENGINEER DATE 05-15-15
 6-22-15
 PLANS APPROVAL DATE
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Notes:
 ① Boot to be fabricated from same material as wetland liner.



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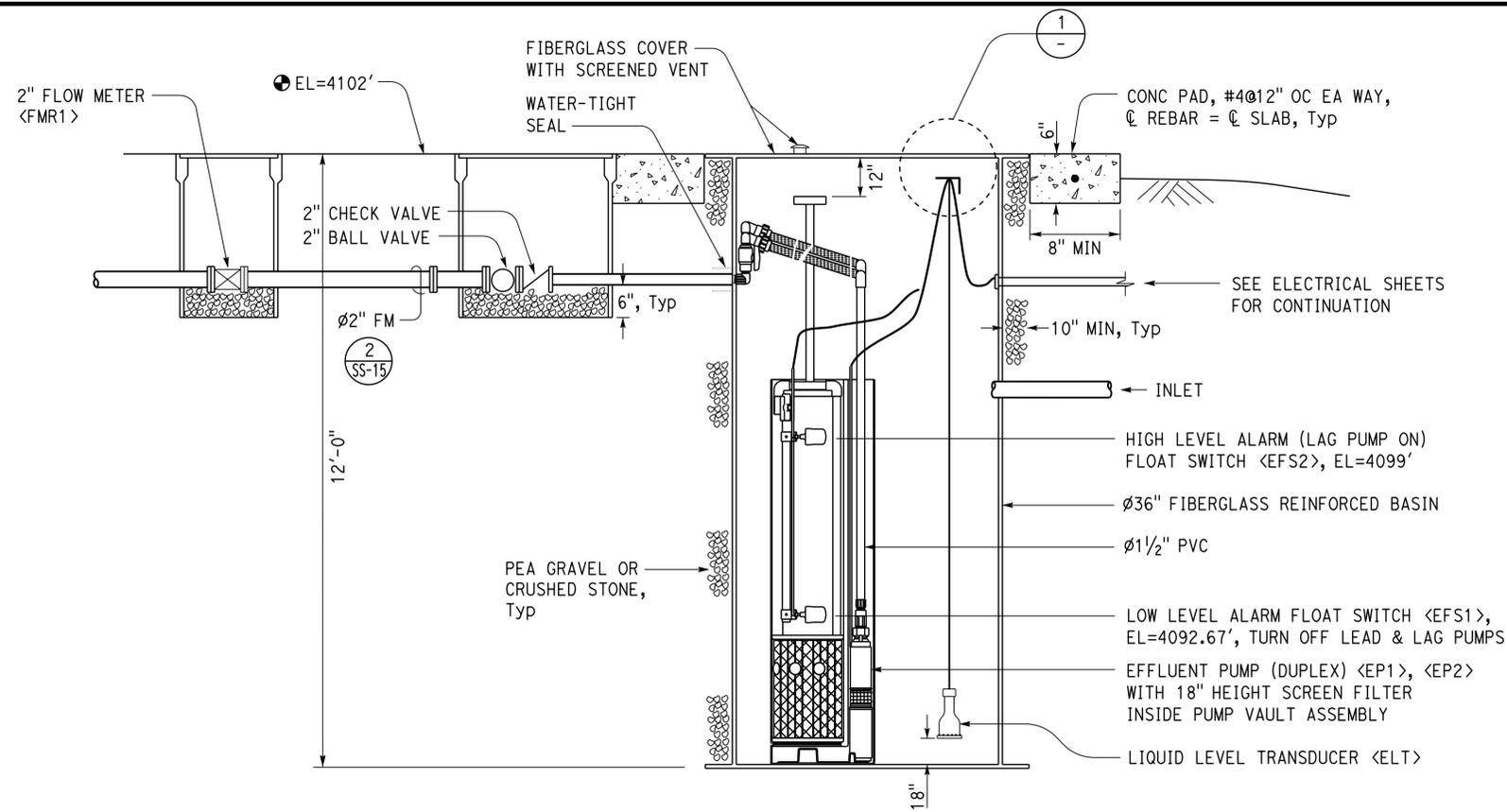
DESIGN BY Andy Quan CHECKED G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS		SHEET SS-13
			POST MILE 49.6	SUBSURFACE WETLANDS DETAILS		
DETAILS BY Jim Stangl/A Quan CHECKED G Panuschka	UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF
QUANTITIES BY CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	8-01-13 12-13-13 2-28-14 7-28-14 2-24-15				

TAEWW Imperial - CCSC Rev. 02/13
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	53	106

[Signature] 05-15-15
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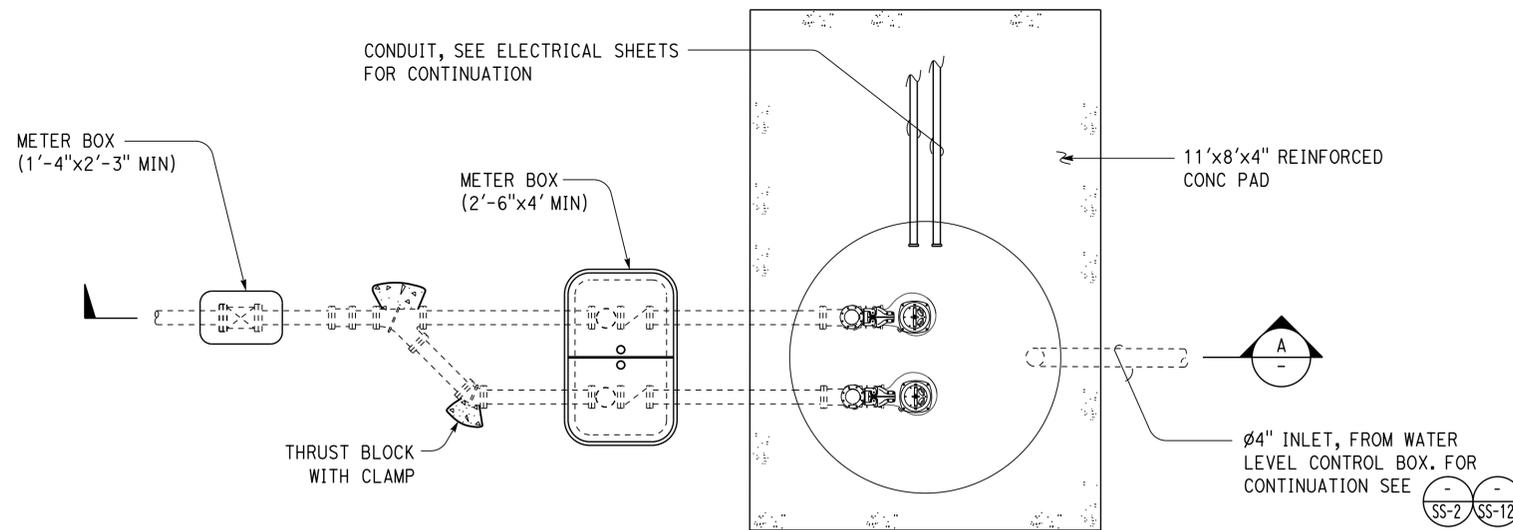


SECTION A
 NO SCALE

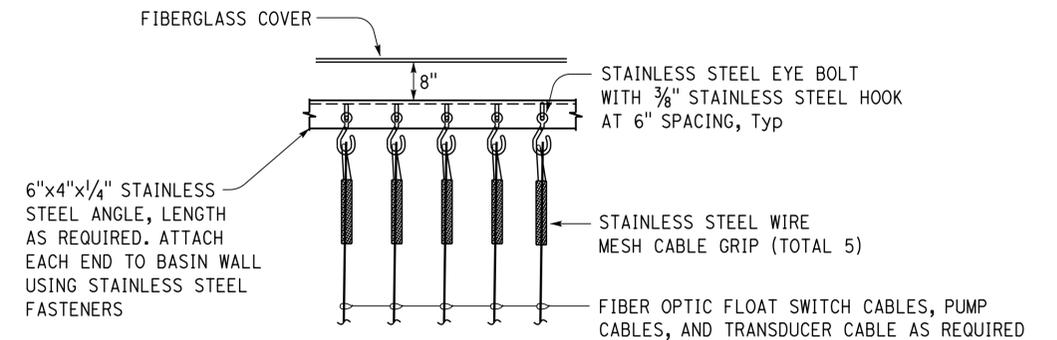
EQUIPMENT SCHEDULE					
EQUIPMENT	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (FT)	HP	VOLTS	PHASE
EFFLUENT PUMP <EP1>, <EP2>	30	45			
	40	40	1/2	240	1
	50	35			

Notes:

- All fastener to aluminium and fiberglass must be devices with stainless steel threaded stud, hex nut and flat washer. Size as required.
- Cable length must be continuous from motor and floats to controls without splices.



PLAN
 NO SCALE



1 SECTION
 NO SCALE

THIS PLAN ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN BY Andy Quan	CHECKED G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS HONEY LAKE SRRA PUMP BASIN	SHEET 53 OF 106
DETAILS BY Jim Stangl/A Quan	CHECKED G Panuschka			POST MILE 49.6		REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES BY	CHECKED			49.6		2-14-14 7-28-14 9-08-14 2-24-15

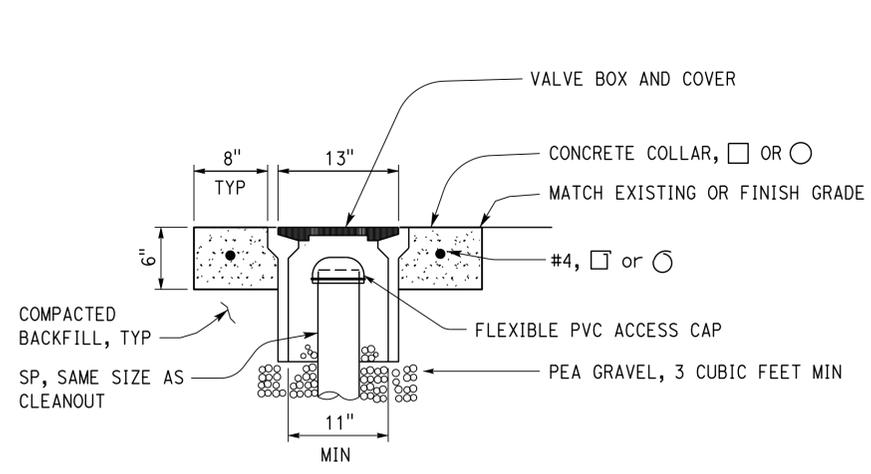
UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 TAEWW Imperial - CCSC Rev. 02/13
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	54	106

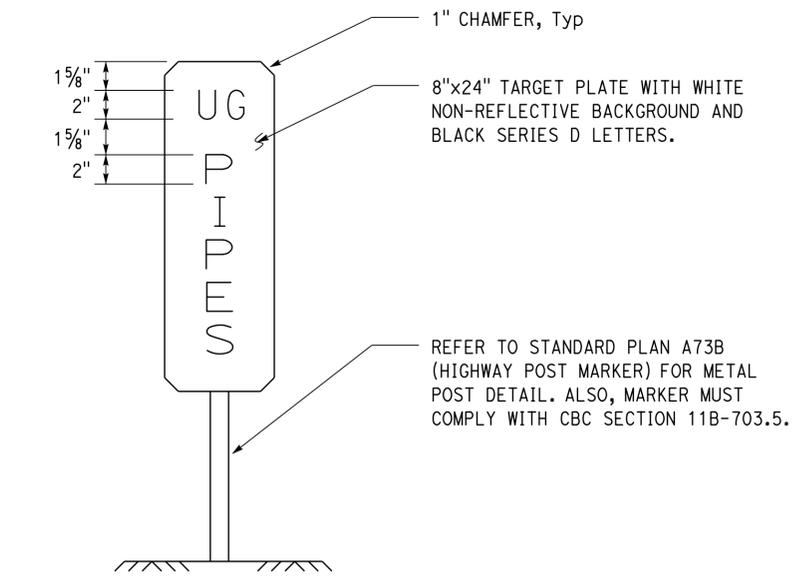
<i>Terence R. Sparto</i>	05-15-15
REGISTERED CIVIL ENGINEER	DATE
6-22-15	
PLANS APPROVAL DATE	

<i>J. Marcotte</i>	No. C36844
Exp. 06-30-16	
CIVIL	STATE OF CALIFORNIA

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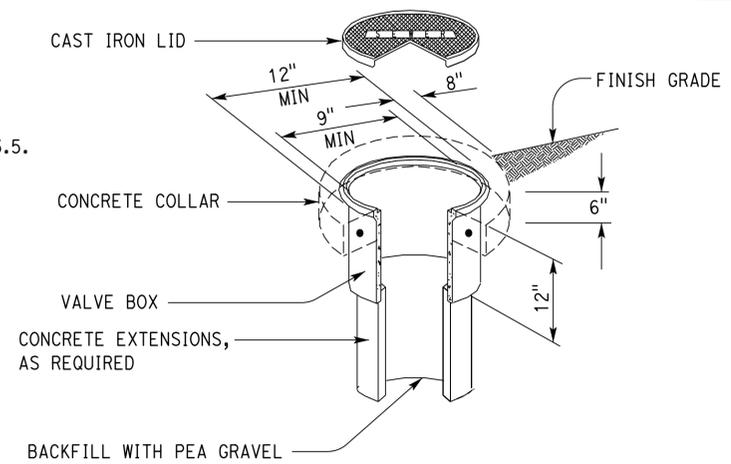


A COTG ACCESS BOX
NO SCALE

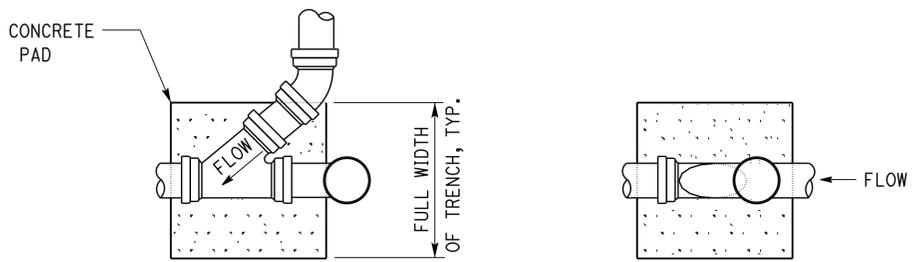
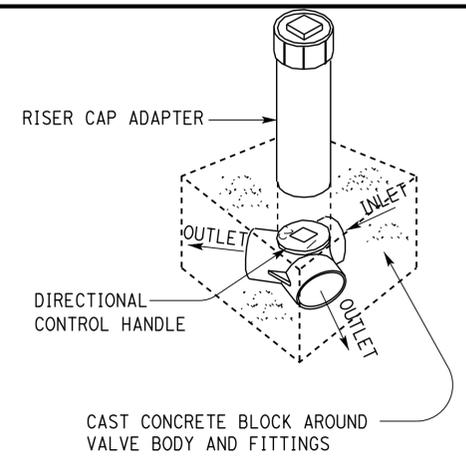


3 PADDLE MARKER
NO SCALE

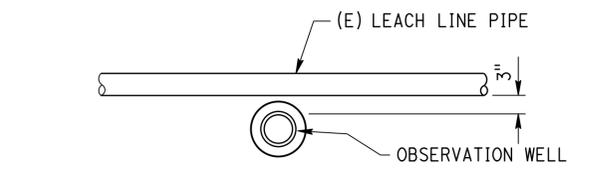
CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: *Andrew McSorely*
Approval date: 02-19-15
SFM FILE # 01-18-11-0003-000



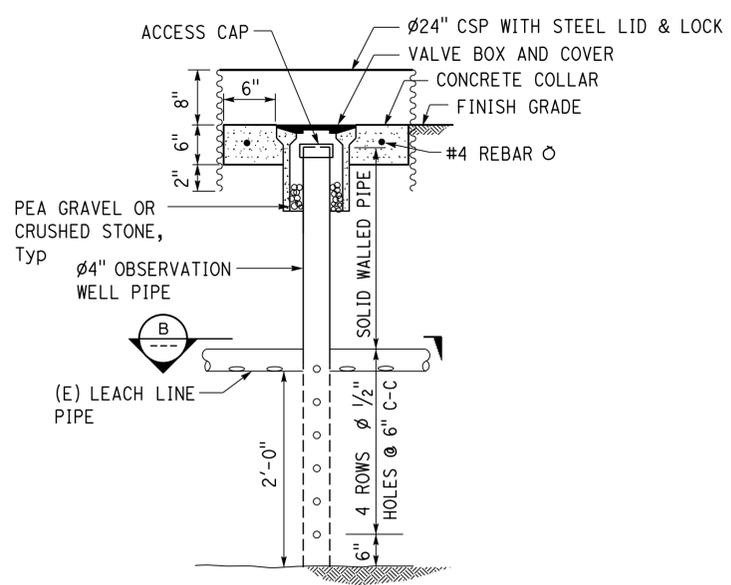
4 DIVERSION VALVE
NO SCALE



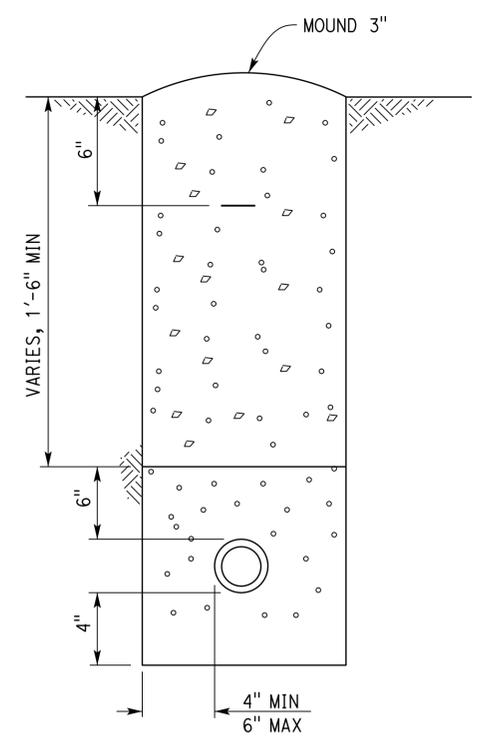
PLAN PLAN
ELEVATION ELEVATION
CLEANOUT (AT BEND) CLEANOUT (STANDARD)



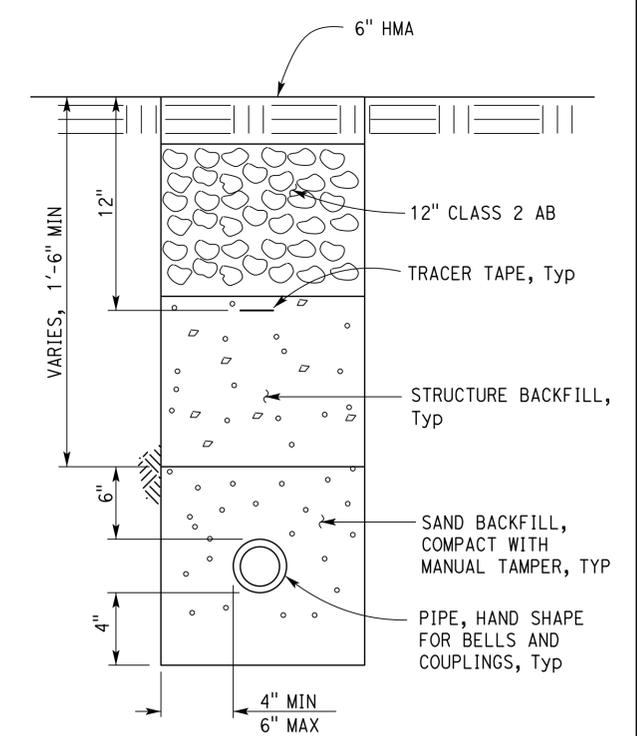
B SECTION - OBSERVATION WELL
NO SCALE



5 OBSERVATION WELL
NO SCALE



2 PIPE SECTION DETAIL
NO SCALE



THIS PLAN ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN	BY Andy Quan	CHECKED G Panuschka
DETAILS	BY Jim Stangl/A Quan	CHECKED G Panuschka
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

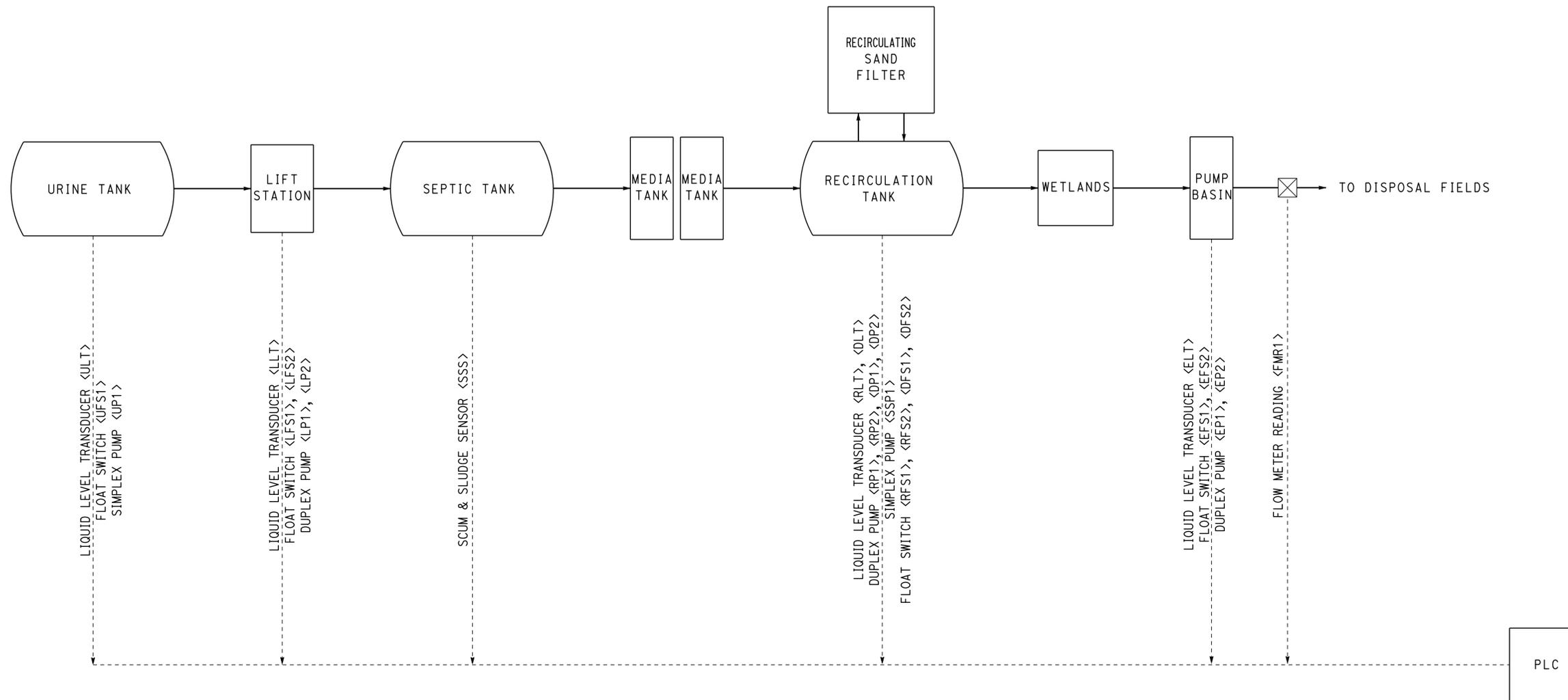
DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 07R0003
POST MILE 49.6

HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS
HONEY LAKE SRRA
PIPE DETAILS

SHEET **SS-15**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	55	106
<i>Jerome R. Gault</i> REGISTERED CIVIL ENGINEER			05-15-15 DATE	REGISTERED PROFESSIONAL ENGINEER J. Marcotte No. C36844 Exp. 06-30-16 CIVIL STATE OF CALIFORNIA	
6-22-15 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.		



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INTERCONNECTION DIAGRAM

DESIGN	BY	Andy Quan	CHECKED	G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	07R0003	HONEY LAKE SRR WASTEWATER SYSTEM IMPROVEMENTS	SHEET SS-16		
	DETAILS	BY	Jim Stangl/A Quan	CHECKED			G Panuschka	POST MILE			49.6	LOW VOLTAGE ELECTRICAL LAYOUT
	QUANTITIES	BY		CHECKED				HONEY LAKE SRR SRR			REVISION DATES (PRELIMINARY STAGE ONLY) 8-01-13 2-28-14 2-24-15	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF	TAEWW Imperial - CCSC Rev. 02/13	P:\dist_02\0212000033_honey_lake_srra_upgrade\ww\8_FPSE\QC-QA_milestone\ss_16.dgn		

24-JUN-2015 16:59

ABBREVIATIONS

A	AIR	IN	INCH
AB	AGGREGATE BASE	JB	JUNCTION BOX
B	BUNG	KW	KILOWATT
BLDG	BUILDING	L	LENGTH
C	CONDUIT	LB	POUND
C-C	CENTER TO CENTER	LS	LANDSCAPE IRRIGATION
CFS	CUBIC FEET PER SECOND	LT	LEFT
CI	CAST IRON	MAX	MAXIMUM
CL	CHAIN LINK	MBV	MOTORIZED BALL VALVE
CMP	CORRUGATED METAL PIPE	MH	MANHOLE
CONC	CONCRETE	MIN	MINIMUM
COTF	CLEANOUT TO FLOOR	(N)	NEW
COTG	CLEANOUT TO GRADE	N	NORTH
CPLG	COUPLING	NB	NORTHBOUND
CW	COLD WATER PIPE	NIC	NOT IN CONTRACT
D	DRAIN	NO	NUMBER
DI	DRAIN INLET	OC	ON CENTER
DIA	DIAMETER	OD	OUTSIDE DIAMETER
DP	DRAIN PIPE	OG	ORIGINAL GROUND
E	ELECTRICAL	P	PITCH
(E)	EXISTING	PCC	PORTLAND CEMENT CONCRETE
EA	EACH	PH	PHASE
EL	ELEVATION	PRV	PRESSURE REDUCING VALVE
EP	EDGE OF PAVEMENT	PVC	POLYVINYL CHLORIDE
EPDM	ETHYLENE PROPYLENE DIMONOMER PIPE	R	RADIUS
EQ	EQUAL	RCP	REINFORCED CONCRETE PIPE
FOB	FACE OF BUILDING	REQ	REQUIRED
FF	FINISH FLOOR	rpm	REVOLUTIONS PER MINUTE
FG	FINISH GRADE	RBPB	REDUCED PRESSURE BACKFLOW PREVENTER
FH	FIRE HYDRANT	RPU	RECYCLE PROCESS UNIT
FL	FLOW LINE	RT	RIGHT
FM	FORCE MAIN	R/W	RIGHT-OF-WAY
FOC	FACE OF CONCRETE	S	SLOPE
FS	FLOW SWITCH	SB	SOUTHBOUND
FT	FEET	SCH	SCHEDULE
FTR	FLUE THROUGH ROOF	SD	STORM DRAIN
GA	GAUGE	SP	SEWAGE PIPE
GAC	GRANULAR ACTIVATED CARBON	SQ	SQUARE
GAL	GALLON	STA	STATION
GPM	GALLONS PER MINUTE	STD	STANDARD BENCH MARK
GALV	GALVANIZED	TBM	TEMPORARY BENCH MARK
GSP	GALVANIZED STEEL PIPE	TOC	TOP OF CONCRETE
GV	GATE VALVE	TOT	TOTAL
GS	GOVERNMENT SERVICE LINE	TYP	TYPICAL
H	HEIGHT	VAC	VOLTS AC
HF	HOSE FAUCET	VCP	VITRIFIED CLAY PIPE
HMA	HOT MIX ASPHALT	W	WATER
HP	HORSEPOWER	W/O	WITHOUT
ID	INSIDE DIAMETER	WP	WATER PIPE
IE	INVERT ELEVATION (IN FEET)	WSP	WELDED STEEL PIPE

LEGEND

	FENCE		DETAIL SHEET NUMBER
	SURFACE DRAINAGE	99.00	NEW GRADE IN FEET
	ABANDON	X (100.00)	EXISTING SPOT GRADE IN FEET
	SANITARY SEWER		SURFACE DRAINAGE
	DRAIN		ABANDON (E)
	RETURN DRAIN		BENCHMARK ELEVATION
	VENT		CENTERLINE
	WATER		DIAMETER
	FORCE MAIN		SECTION / ELEVATION LETTER SHEET NUMBER
	LEACH LINES		TREE
	ELECTRICAL LINES	<XXXX>	PLC TAG - SEE ELECTRICAL SHEETS

GENERAL WORK NOTES

- The Contractor must verify all controlling field dimensions and conditions before ordering or fabricating any materials.
- The Contractor must verify exact location of all underground facilities and utilities prior to start of construction.
- No 90 degree bends allowed on drain or sewer pipe. Where 90 degree bends are shown, use two 45 degree bends

THRUST BLOCK PLACEMENT ON PIPE FITTINGS*

Type of Fitting	90° Bend	45° Bend	1 1/4' or 22 1/2' Bend	Tee or Dead end	Cross w/plug	Tee w/plug
Typical Installation						

* For thrust block bearing area, refer to CPC IAPMO IS 8.

PIPE FITTINGS AND VALVES

	CAP, THREADED
	ELBOW, TURNED DOWN
	FLEXIBLE CONNECTOR
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	PRESSURE GAUGE (WITH VALVE AND SNUBBER)
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, CHECK
	VALVE, GATE
	VALVE, SAFETY RELIEF
	VALVE, PRESSURE REDUCING
	WATER METER
	HOSE FAUCET

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	56	106
<i>Jerome R. Sparto</i>		05-15-15	REGISTERED CIVIL ENGINEER DATE		
6-22-15		PLANS APPROVAL DATE			
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Reviewed by: *Andrew McSorely*
ANDREW MCSORELY
Approval date: 02-19-15
SFM FILE # 01-18-11-0003-000

THIS PLAN ACCURATE FOR WATER WORK ONLY

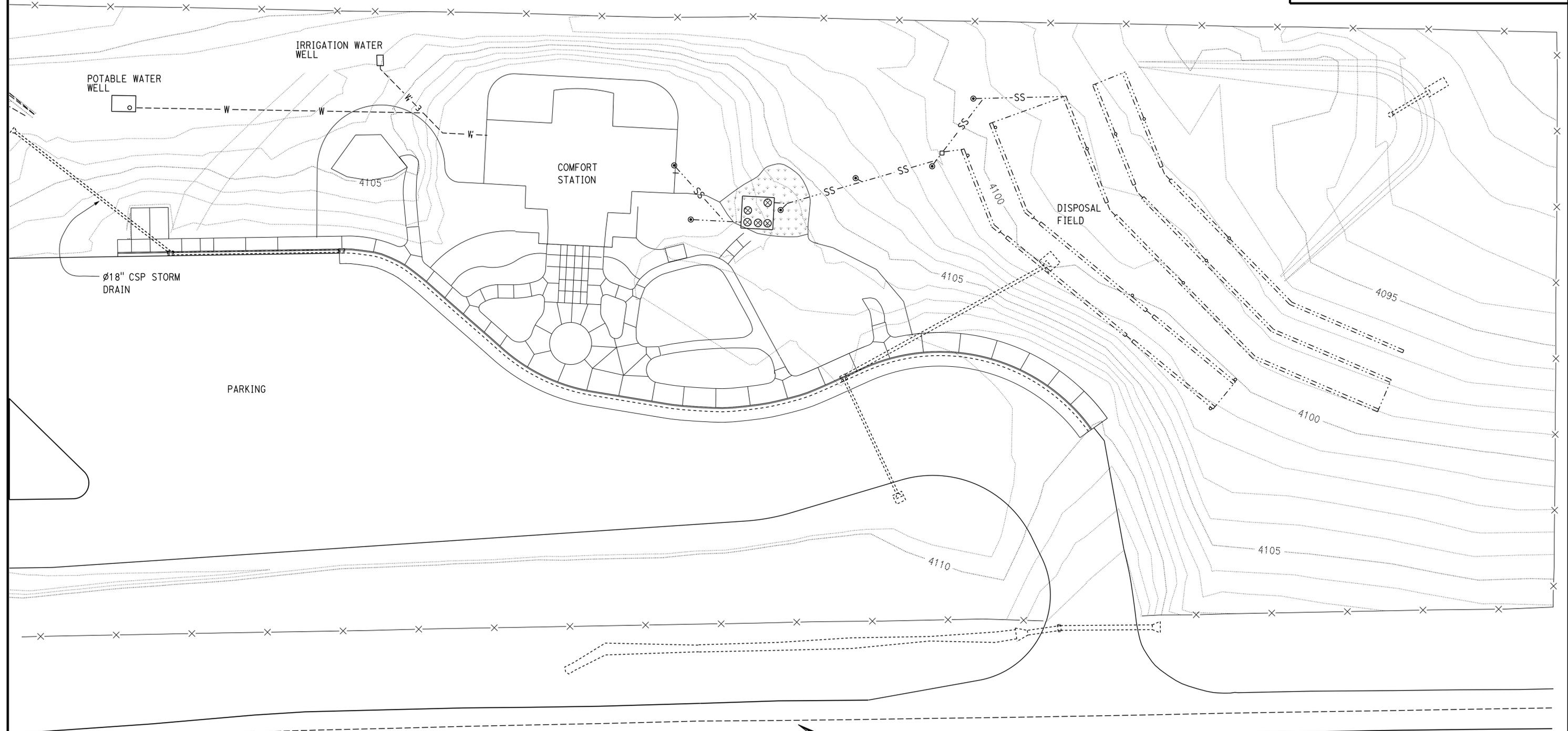
DESIGN BY Andy Quan CHECKED G Panuschka DETAILS BY Jim Stangl/A Quan CHECKED G Panuschka QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003 POST MILE 49.6	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS HONEY LAKE SRRA NOTES, LEGEND AND ABBREVIATIONS	SHEET W-0 OF _____
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 6-01-13 2-24-15	SHEET _____ OF _____	
	TAEWW Imperial - CCSC Rev. 02/13 P:\dist_02\0212000033_honey_lake_srra_ww_upgrade\ww\8 FPSE\QC-QA milestone\w_0.dgn				

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	57	106
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER		05-15-15 DATE			
6-22-15 PLANS APPROVAL DATE		<i>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.</i>			

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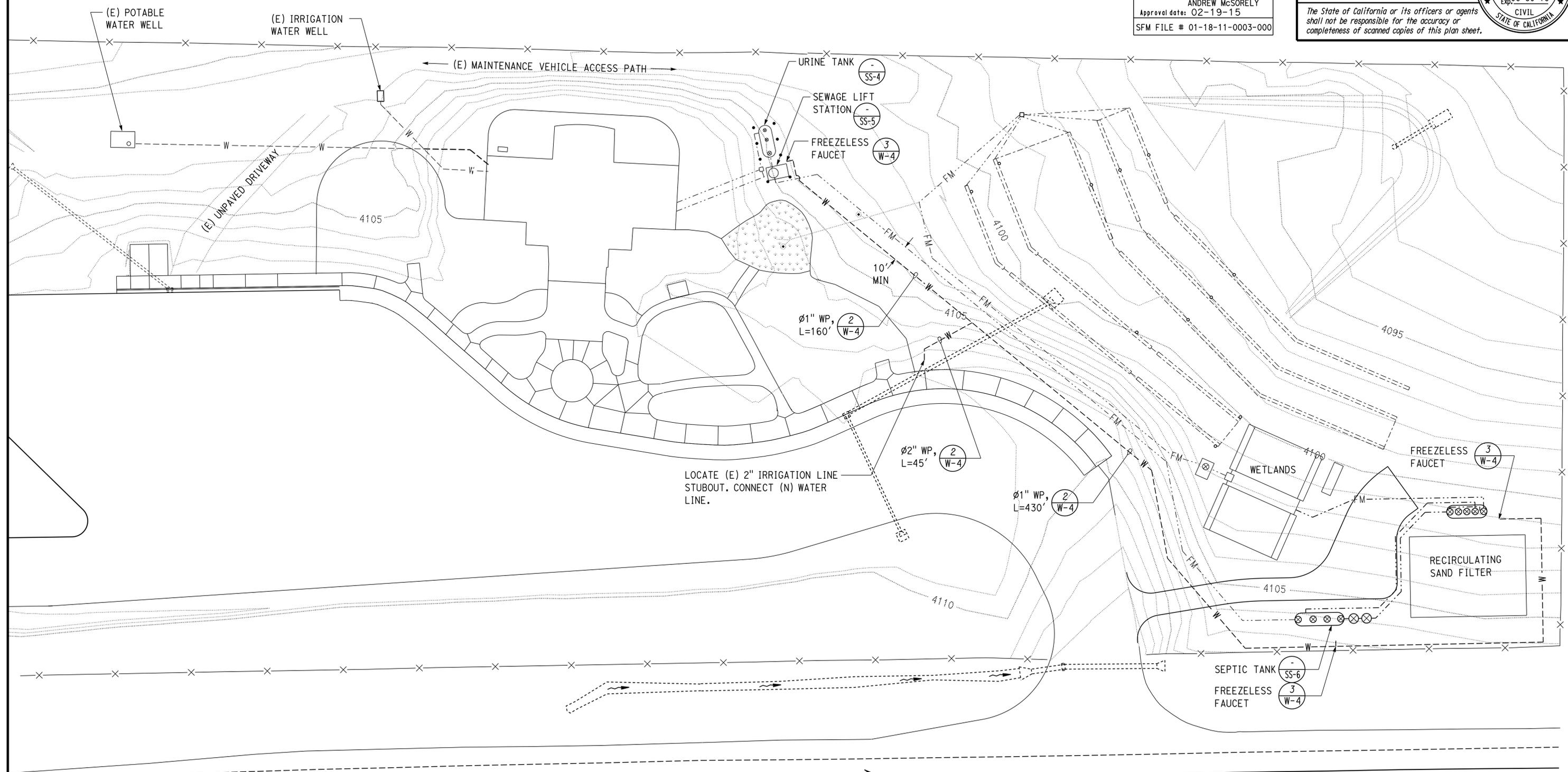


EXISTING SITE PLAN
 Scale 1" = 30'-0"
 HWY 395

THIS PLAN ACCURATE FOR WATER WORK ONLY

DESIGN SUPERVISOR <i>Paul Schreff</i> DESIGN ENGINEER <i>Jerome R. Marcotte</i>	DESIGN BY Andy Quan	CHECKED G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS EXISTING SITE PLAN	SHEET W-1 OF
	DETAILS BY Jim Stangl/A Quan	CHECKED G Panuschka			POST MILE 49.6		
QUANTITIES BY	CHECKED		UNIT: 3616 CONTRACT No.: 02-4E690	PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAMMW Imperial - CCSC Rev. 02/13		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		9-27-13 2-24-15	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	58	106
<i>Jerome R. Sparto</i> REGISTERED CIVIL ENGINEER			05-15-15 DATE	REGISTERED PROFESSIONAL ENGINEER J. Marcotte No. C36844 Exp. 06-30-16 CIVIL STATE OF CALIFORNIA	
Reviewed by: <i>Andrew McSorely</i> ANDREW MCSORELY Approval date: 02-19-15 SFM FILE # 01-18-11-0003-000			06-22-15 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.	



PROPOSED SITE PLAN

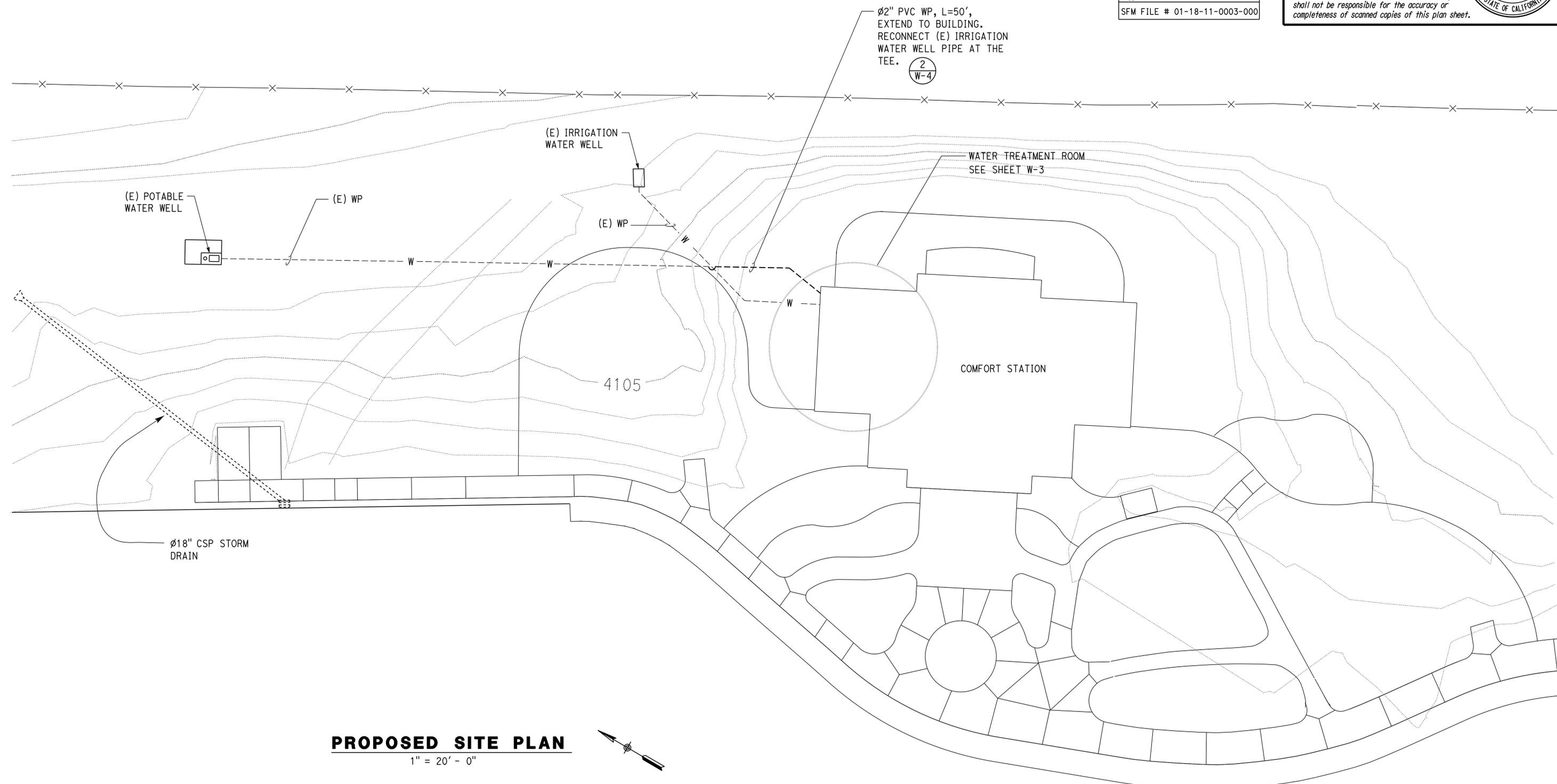
1" = 30'-0"

THIS PLAN ACCURATE FOR WATER WORK ONLY

DESIGN BY: Andy Quan CHECKED: G Panuschka DETAILS BY: Jim Stangl/A Quan CHECKED: G Panuschka QUANTITIES BY: _____ CHECKED: _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003 POST MILE 49.6	HONEY LAKE SRR WASTEWATER SYSTEM IMPROVEMENTS	SHEET W-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	59	106
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER			05-15-15 DATE	REGISTERED PROFESSIONAL ENGINEER J. Marcotte No. C36844 Exp. 06-30-16 CIVIL STATE OF CALIFORNIA	
6-22-15 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.		

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ANDREW MCSORELY
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PROPOSED SITE PLAN
 1" = 20' - 0"

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			POST MILE 49.6	HONEY LAKE SRRA	PROPOSED SITE PLAN	
UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331			DISREGARD PRINTS BEARING EARLIER REVISION DATES →		REVISION DATES (PRELIMINARY STAGE ONLY) 8-01-13 12-13-13 2-28-14 5-08-14 7-28-14 2-24-15	
TAEWW Imperial - CCSC Rev. 02/13			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		SHEET OF	

24-JUN-2015 16:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	60	106

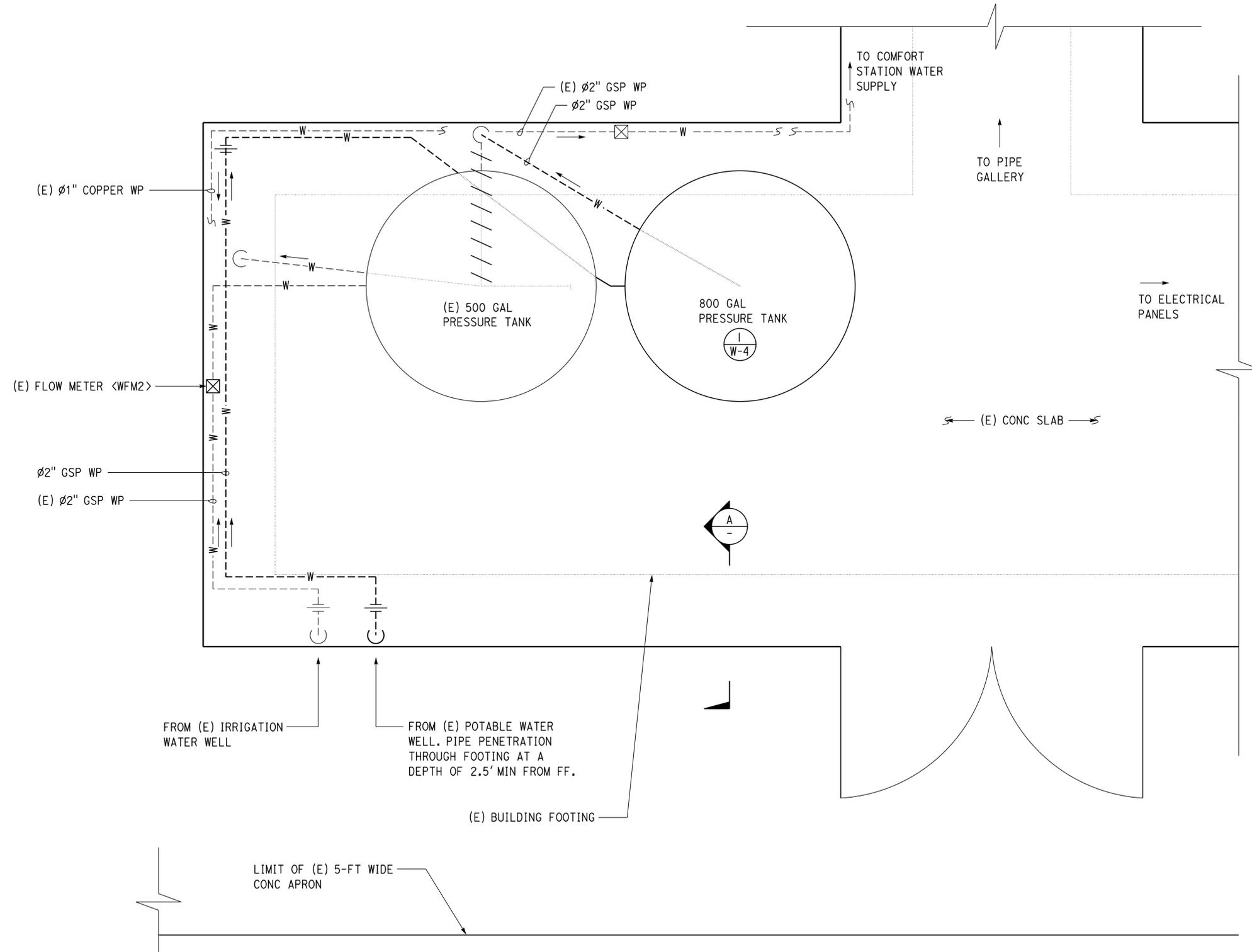
<i>Jerome R. Sparto</i>	05-15-15
REGISTERED CIVIL ENGINEER	DATE
6-22-15	
PLANS APPROVAL DATE	

J. Marcotte
No. C36844
Exp. 06-30-16
CIVIL
STATE OF CALIFORNIA

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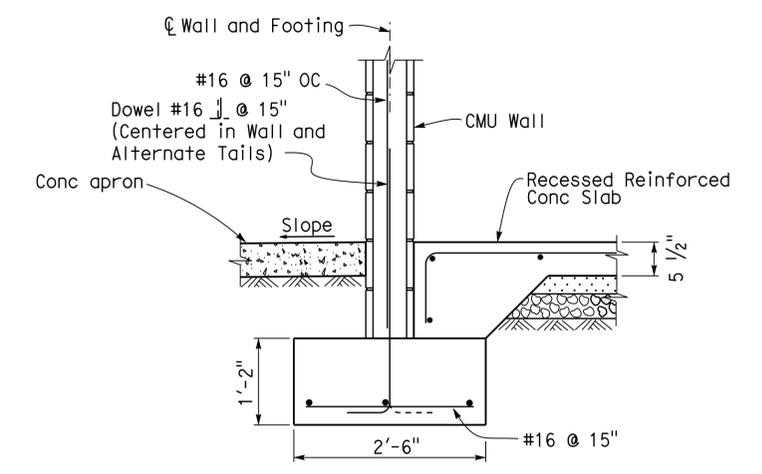
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CONTRACTOR NOTES:

1. Remove & salvage (E) 500-gal plastic storage tank, reverse osmosis unit, chlorinator, and related electrical conduits & conductors (not shown) as required. These items to remain as Department property.
2. Cap or plumb all piping necessary for proper operation of water system.
3. Replace concrete slab after sawcut and pipe installation. Finish to match existing.
4. Label new pressure tank as "Potable Water" and (E) pressure tank as "Irrigation Water".
5. Label water pipes with flow arrows.
6. The connections going to the (E) water well pump will be re-established with the (E) pressure tank. The connections going to the (N) water well pump will be established with the (N) pressure tank.



PLAN
1" = 1'-0"

A (E) CMU EXTERIOR FOOTING
NO SCALE

THIS PLAN ACCURATE FOR WATER WORK ONLY

DESIGN BY Andy Quan	CHECKED G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS		SHEET W-3
				POST MILE 49.6	HONEY LAKE SRRA	WATER TREATMENT ROOM	
DETAILS BY Jim Stangl/A Quan	CHECKED G Panuschka	UNIT: 3616 CONTRACT No.: 02-4E690 PROJECT NUMBER & PHASE: 02120000331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	

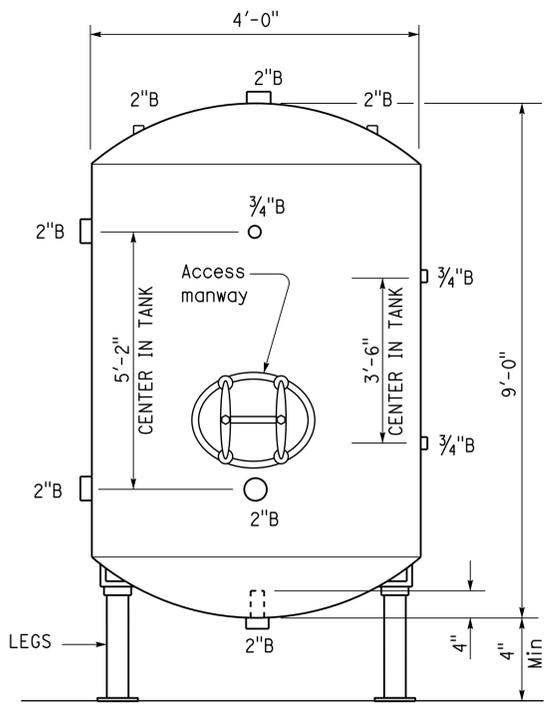
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<i>Jerome R. Sparto</i>	05-15-15
REGISTERED CIVIL ENGINEER	DATE
6-22-15	
PLANS APPROVAL DATE	

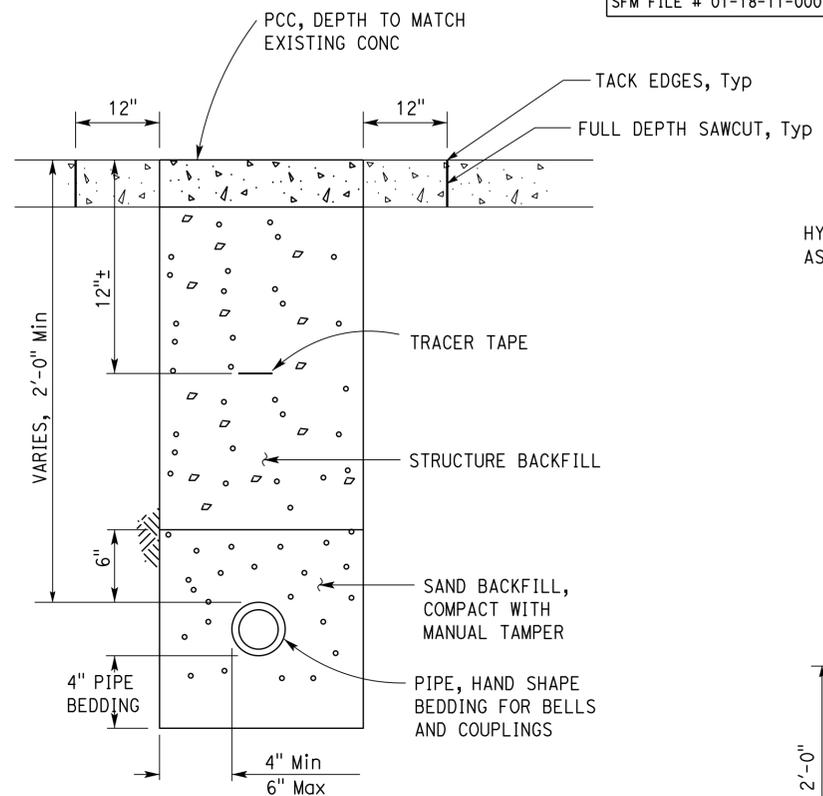
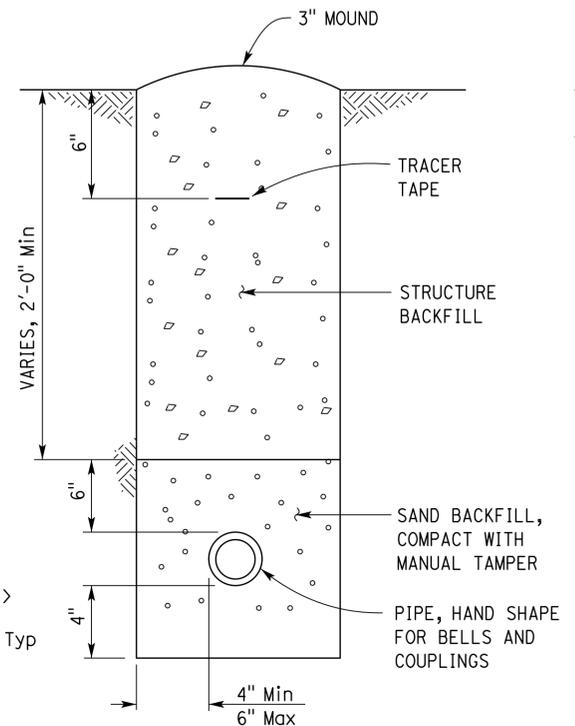
<i>J. Marcotte</i>	No. C36844
Exp. 06-30-16	CIVIL
STATE OF CALIFORNIA	

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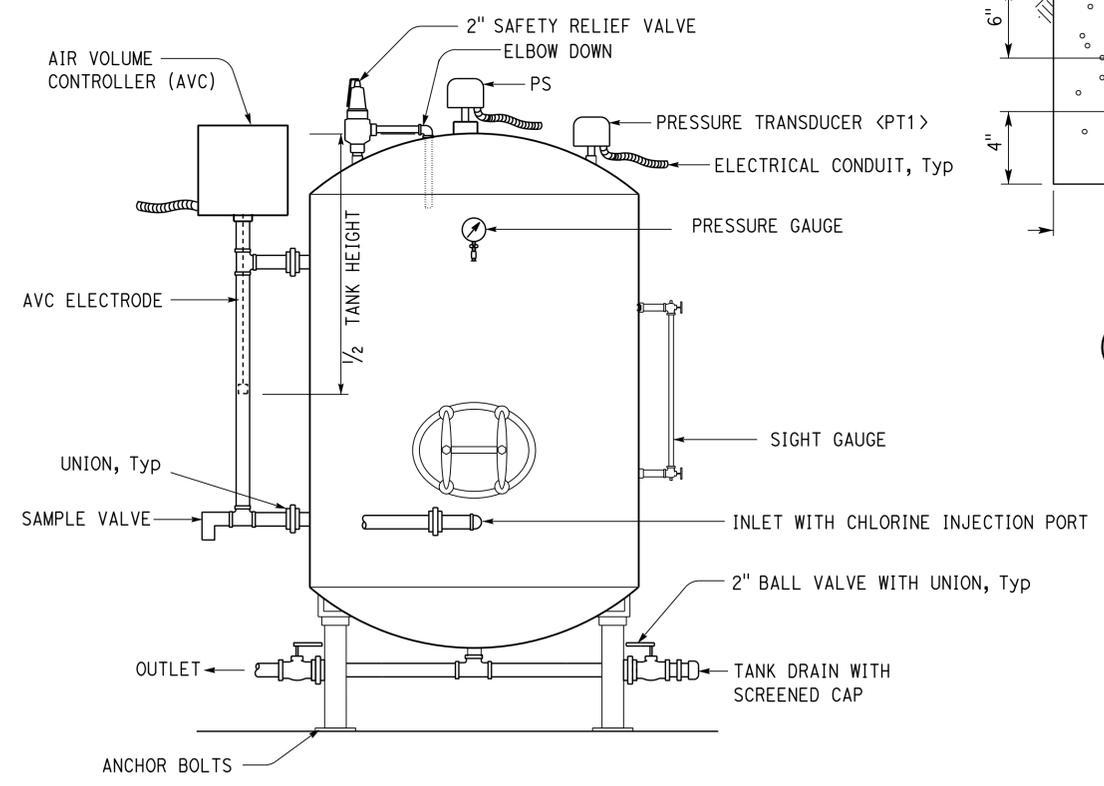
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 ANDREW MCSORELY
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1 BUNG LOCATION DETAIL
NO SCALE



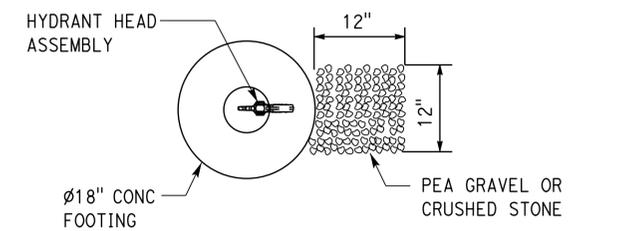
2 PIPE SECTION DETAIL
NO SCALE



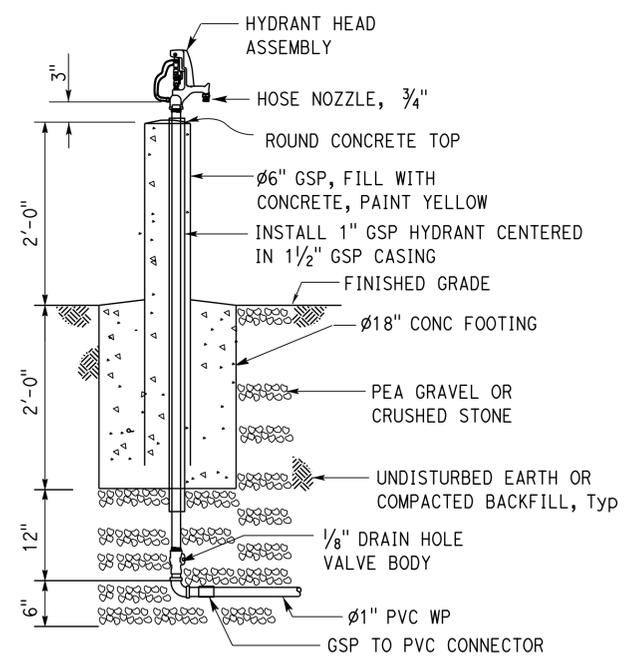
1 PRESSURE WATER TANK (800 GALLON NOMINAL)
NO SCALE

Note:
 (A) Pressure tank exterior to be painted white.

THIS PLAN ACCURATE FOR WATER WORK ONLY



PLAN



SECTION

3 FREEZE-PROOF FAUCET
NO SCALE

NOTE:
 (A) Hydrant pipe and appurtenances must be SCH 40 GSP

DESIGN	BY	Andy Quan	CHECKED	G Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	07R0003	HONEY LAKE SRRA	HONEY LAKE SRRA	SHEET W-4
	DETAILS	BY	Jim Stangl/A Quan	CHECKED			G Panuschka	POST MILE			
QUANTITIES	BY		CHECKED		UNIT: 3616	CONTRACT No.: 02-4E690	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

PROJECT NUMBER & PHASE: 02120000331

REVISION DATES (PRELIMINARY STAGE ONLY): 8-01-13, 12-13-13, 2-28-14, 12-3-14, 2-24-15

TAEWW Imperial - CCSC Rev. 02/13

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GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
CEILING	WALL
	SURFACE FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE
	RECESSED FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE
	EXIT LIGHT
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT OR LED FIXTURE
	RECESSED INDIVIDUAL FLUORESCENT OR LED FIXTURE
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT OR LED FIXTURES
NOTE:	A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHA-NUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR, L=LED), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE.
	EXAMPLE : (4) F2-2x32
	BLANK OUTLET
	JUNCTION BOX
	DROP CORD
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET
	RANGE OUTLET
	CLOCK HANGER RECEPTACLE
	FAN HANGER RECEPTACLE
	FLOOR SINGLE RECEPTACLE OUTLET
	FLOOR DUPLEX RECEPTACLE OUTLET
	FLOOR SPECIAL PURPOSE OUTLET
	FLOOR RADIO OUTLET
	FLOOR TELEPHONE OUTLET
	MULTI-FLOOR OUTLET, 2 OR MORE GANG
	MULTI-OUTLET ASSEMBLY
	SWITCH AND SINGLE RECEPTACLE
	SWITCH AND DUPLEX RECEPTACLE
	RADIO OUTLET
	COMMUNICATION OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	RADIO OUTLET
	TELEVISION OUTLET
	MICROPHONE OUTLET
	THERMOSTAT

SYMBOL	DESCRIPTION
S	SINGLE-POLE SWITCH
S ₂	DOUBLE-POLE SWITCH
S ₃	THREE-WAY SWITCH
S ₄	FOUR-WAY SWITCH
SCHLF	TWO TIMER SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND ONE SWITCH FOR HEAT LAMP
S _D	AUTOMATIC DOOR
SDTS	DIGITAL TIMER SWITCH
SF	FAN SWITCH
SH	HEATER SWITCH
SHP	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
SK	KEY OPERATED SWITCH
SL	LIGHT SWITCH
SM	MOTION SENSOR SWITCH
SMC	MOMENTARY CONTACT SWITCH
S ₁	OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
S ₂	OCCUPANCY SENSOR WALL SWITCH, BILEVEL
SRC	REMOTE CONTROL SWITCH
ST	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
SVS	VARIABLE SPEED MOTOR CONTROL SWITCH
SWP	WEATHERPROOF SWITCH
T _S	TIMER SWITCH
	PUSHBUTTON
	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	COMBINATION BELL-BUZZER
	PRESSURE SWITCH
	CONTROL RELAY
	FLOW SWITCH
	PHOTOELECTRIC UNIT
	HAND DRYER NOZZLE
	HAND DRYER
	FLUSH-MOUNTED PANELBOARD AND CABINET
	SURFACE-MOUNTED PANELBOARD AND CABINET
	LIGHTING PANEL
	POWER PANEL
	COMBINATION LIGHTING AND POWER
	MOTOR CONTROLLER
	DISCONNECT SWITCH
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED IN FLOOR
	CONDUIT EXPOSED
	CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES 1#12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH 1#12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT 1/2" UNLESS OTHERWISE NOTED.
	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT

SYMBOL	DESCRIPTION
	SURFACE METAL RACEWAY
	CONDUCTOR INFO (PER CONDUIT) CONDUIT TYPE CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
	CONDUIT, RIGID STEEL, UNDERGROUND
	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	CONDUIT, POLYVINYL CHLORIDE COATED-METAL, UNDERGROUND
	CONDUIT, FLEXIBLE
	CONDUIT, TURN UP
	CONDUIT, TURN DOWN
	CONDUIT SEAL, EXPLOSION-PROOF
	CONDUIT, EXPANSION JOINT
	ADAPTER, ONE TYPE CONDUIT TO ANOTHER
	POLE
	OCCUPANCY SENSOR POWER PACK
	MANUAL PULL STATION
	AUDIO/VISUAL ALARM DEVICE
	HEAT DETECTOR
	SMOKE DETECTOR
	GLASS BREAK DISCRIMINATOR
	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
	KEYPAD FOR ALARM SYSTEM
	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
	PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	PULL BOX (TRAFFIC-RATED)-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	COMBINATION HEAT, LIGHT, AND FAN UNIT
	SECTION/ELEVATION LETTER
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REMODEL WORK

SYMBOL	DESCRIPTION
	EXISTING FLUORESCENT FIXTURE-TO REMAIN
	EXISTING FLUORESCENT FIXTURE-REMOVE
	EXISTING INCANDESCENT FIXTURE-TO REMAIN
	EXISTING INCANDESCENT FIXTURE-REMOVE
	EXISTING OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-REMOVE
	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
	EXISTING CONDUIT AND CONDUCTORS-REMOVE
	EXISTING SWITCH-TO REMAIN
	EXISTING SWITCH-REMOVE
	EXISTING JUNCTION BOX-TO REMAIN
	EXISTING JUNCTION BOX-REMOVE

GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE-POLE
	CIRCUIT BREAKER, DOUBLE-POLE
	CIRCUIT BREAKER, THREE-POLE
	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
	CIRCUIT BREAKER, SINGLE-POLE, SWITCHED NEUTRAL
	CONTACT, NORMALLY OPEN
	CONTACT, NORMALLY CLOSED
	CONTACT, NORMALLY CLOSED, TIME DELAY CLOSING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY OPENING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY CLOSING ON ENERGIZING
	CONTACT, NORMALLY CLOSED, TIME DELAY OPENING ON ENERGIZING
	CONTACT, SINGLE-POLE, DOUBLE-THROW
	OPERATING COIL
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY CLOSED
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY OPEN
	PRESSURE ACTUATED SWITCH, NORMALLY CLOSED
	PRESSURE ACTUATED SWITCH, NORMALLY OPEN
	FLOW ACTUATED SWITCH, NORMALLY CLOSED
	FLOW ACTUATED SWITCH, NORMALLY OPEN
	TEMPERATURE ACTUATED SWITCH, NORMALLY CLOSED
	TEMPERATURE ACTUATED SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	LIMIT SWITCH, NORMALLY OPEN
	PUSHBUTTON SWITCH, NORMALLY CLOSED
	PUSHBUTTON SWITCH, NORMALLY OPEN
	SWITCH, SINGLE-POLE
	SWITCH, SINGLE-POLE, DOUBLE-THROW
	SELECTOR SWITCH, HAND-OFF-AUTO
	SWITCH, SINGLE-POLE, 3-POSITION
	TIMER SWITCH
	THERMAL OVERLOAD
	FUSE
	TRANSFORMER WINDING
	GROUNDING ELECTRODE
	ENCLOSURE BOND
	PILOT LIGHT (A=AMBER, G=GREEN, R=RED)
	INDICATING LIGHT (A=AMBER, G=GREEN, R=RED)
	GENERATOR
	MOTOR
	FAN MOTOR

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	62	106

Jaswinder S Gill
 REGISTERED ELECTRICAL ENGINEER DATE 6-19-15
 6-22-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

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CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by:
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003 POST MILE 49.6	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS	SHEET EE0-0
DETAILS BY Kathi Andreasen CHECKED Beatrice Bindu				LEGEND	
QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
3-13 3-14 12-14 2-15 6-15	1 45

TAEWW Imperial - CCSC Rev. 02/13

24-JUN-2015 16:50

ABBREVIATIONS

A
 A AMPERES
 AC ALTERNATING CURRENT or ASPHALT CONCRETE
 A/C AIR CONDITIONING UNIT
 ACS AIR COMPRESSOR STARTER
 AFCI ARC FAULT CIRCUIT INTERRUPTER
 AI ANALOG INPUT
 AL ALARM LIGHT
 AO ANALOG OUTPUT
 Approx APPROXIMATE
 AR ALARM RESET
 ATS AUTOMATIC TRANSFER SWITCH
 AUTO AUTOMATIC
 AVC AIR VOLUME CONTROLLER

B
 BC BARE COPPER
 BD BUILDING DISCONNECT
 Bldg BUILDING
 BP BOOSTER PUMP
 Brk BREAKER

C
 C CONDUIT
 Cat CATEGORY
 CB CIRCUIT BREAKER
 CC CENTER CHANNEL LIGHT
 CCTV CLOSED CIRCUIT TELEVISION
 CD CONTROL DISCONNECT
 Ckt CIRCUIT
 CL CHAIN LINK
 @ CENTER LINE
 Clr CLEAR or CLEARANCE
 CM CENTER MARGIN LIGHT
 CMP CORRUGATED METAL PIPE
 CMS CHANGEABLE MESSAGE SIGN
 COMM COMMUNICATION
 Conc CONCRETE
 Cont CONTINUED or CONTINUOUS
 CPU CENTRAL PROCESSING UNIT
 CR CONTROL RELAY
 CS CURRENT SWITCH
 CT CURRENT TRANSFORMER

D
 D DEPTH
 DC DIRECT CURRENT
 DI DIGITAL INPUT
 Dia DIAMETER
 DLC LOOP DETECTOR LEAD-IN CABLE
 DMM DIGITAL MULTI METER
 DO DIGITAL OUTPUT
 DP DUPLEX PLUG RECEPTACLE
 DS DOOR SWITCH

E
 (E) EXISTING
 EB EASTBOUND
 EF EXHAUST FAN
 Elev ELEVATION
 EMS EXTINGUISHABLE MESSAGE SIGN
 ENET ETHERNET NETWORK

F
 F FUSE
 FA AC FUSE
 FD DC FUSE
 FG FINISH GRADE
 FL FAILURE LIGHT
 FLA FLASHER
 Flex FLEXIBLE CONDUIT
 FLS FLOW SWITCH
 FO FIBER OPTIC
 FR FAILURE RESET or FLAME RESISTANT
 FS FLOAT SWITCH
 FT FLOAT TRANSCIEVER

G
 G GROUND
 Ga GAUGE
 Galv GALVANIZED
 GFCI GROUND FAULT CIRCUIT INTERRUPTER
 GRS GALVANIZED RIGID STEEL

H
 HD HEATER DISCONNECT
 hp HORSEPOWER
 HPS HIGH PRESSURE SODIUM

I
 IC IRRIGATION CONTROLLER
 ICC IRRIGATION CONTROLLER CABINET
 IL INDICATING LIGHT
 IR INDUCTION RELAY OR INTERFACING RELAY
 ISB INTRINSICALLY SAFE BARRIER
 ISR INTRINSICALLY SAFE RELAY

J
 JB JUNCTION BOX

K
 KV KILOVOLT
 KVA KILOVOLT AMPERES
 KW KILOWATT

L
 L LIGHT or LENGTH
 LC LIGHTING CONTACTOR
 LCD LIQUID CRYSTAL DISPLAY
 LCP LIGHTING CONTROL PANEL
 LD LIGHT DISCONNECT
 LDCI LEAK DETECTOR CIRCUIT INTERRUPTER
 LED LIGHT EMITTING DIODE
 LL LIQUID LEVEL RELAY
 LLC LIQUID LEVEL CONTROLLER
 LP LIGHT PANEL
 LPS LOW PRESSURE SODIUM
 LS LIGHT SWITCH
 LT LIGHT TRANSFORMER OR LEVEL TRANSDUCER
 LTO LIGHT TRANSFORMER OVERLOAD
 LTPD LIGHT TRANSFORMER PRIMARY DISCONNECT
 LTSD LIGHT TRANSFORMER SECONDARY DISCONNECT

M
 Max MAXIMUM
 MB MAIN BREAKER
 MC METALLIC CONDUIT
 MCP MOTOR CIRCUIT PROTECTOR
 MCC MOTOR CONTROL CENTER
 MD MOTOR DISCONNECT
 MEA MECHANICAL EXPANSION ANCHORS
 MH MOUNTING HEIGHT
 Min MINIMUM
 Misc MISCELLANEOUS
 MR MASTER RELAY/STARTER
 MS MOTOR SAVER
 MSB MAIN SWITCHBOARD
 MT EMPTY CONDUIT
 MTS MANUAL TRANSFER SWITCH

N
 (N) NEW
 Nav NAVIGATIONAL LIGHTS
 NB NEUTRAL BUS or NORTHBOUND
 NC NORMALLY CLOSED
 No. NUMBER
 Nos. NUMBERS
 NO NORMALLY OPEN
 NSW NEUTRAL SWITCHING BREAKER

O
 O/C ON CENTER
 OG ORIGINAL GROUND
 OH OVERHEIGHT or OVERHEAD
 OIT OPERATOR INTERFACE TERMINAL
 OL OVERLOAD

P
 P POLE (CIRCUIT BREAKER)
 PB PULL BOX or PUSHBUTTON
 PCC PORTLAND CONCRETE CEMENT
 PCP PUMP CONTROL PANEL
 PD PUMP DISCONNECT
 PEC PHOTOELECTRIC CONTROL
 PEU PHOTOELECTRIC UNIT
 PFR PHASE FAILURE RELAY
 PFRD PHASE FAILURE RELAY DISCONNECT
 P PLATE
 PL PILOT LIGHT
 PLC PROGRAMMABLE LOGIC CONTROLLER
 PS POWER SUPPLY or PRESSURE SWITCH
 PTS POWER TRANSFER SWITCH
 PV PHOTOVOLTAIC
 PVC POLYVINYL CHLORIDE

R
 RD RECEPTACLE DISCONNECT
 RECEPT RECEPTACLE
 Req'd REQUIRED
 RES RESISTOR
 RIO REMOTE INPUT/OUTPUT
 RLM REDUNDANCY LINK MODULE
 RT RECIRCULATION TANK
 Rm ROOM
 RTB RADIO TERMINAL BOARD
 R/W RIGHT OF WAY

S
 S STARTER COIL
 Sch SCHEDULE
 SD SERVICE DISCONNECT
 Sec SECONDS
 SFR SEAL FAILURE RELAY
 SL SUMP LIGHT
 SLS SEWAGE LIFT STATION
 SPD SURGE PROTECTIVE DEVICE
 SPR STANDBY POWER RECEPTACLE
 Sq SQUARE
 SS SELECTOR SWITCH OR SLUDGE AND SCUM SENSOR
 ST STARTER
 SST STAINLESS STEEL
 Sta STATION
 Std STANDARD
 SV SOLENOID VALVE
 SWIM SLOW WEIGH-IN-MOTION

T
 TB TERMINAL BLOCK
 TBD TO BE DETERMINED
 TC TELEPHONE CABLE
 TDR TIME DELAY RELAY
 TGLS TOGGLE SWITCH
 TM TIME METER
 Tot TOTAL
 TS TIMER SWITCH or TEMPERATURE SWITCH
 TSW TEST SWITCH
 TTb TELEPHONE TERMINAL BOARD
 Typ TYPICAL

U
 UPS UNINTERRUPTIBLE POWER SUPPLY

V
 V VOLT(S)
 Var VARIABLE or VARIES
 VFD VARIABLE FREQUENCY DRIVE

W
 W WATT or WIDTH
 WB WESTBOUND
 WIM WEIGH-IN-MOTION
 WLS WATER LEVEL SWITCH
 WP WEATHERPROOF
 WSMS WEIGH STATION MESSAGE SIGN

X
 XFMR TRANSFORMER

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 Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	63	106

Jaswinder Gill
 REGISTERED ELECTRICAL ENGINEER DATE 6-19-15
 6-22-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

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PROJECT NOTES

1. Separate grounded (Neutral) conductor must be used for each 120-volt circuit.
2. Homeruns to Panelboards must be installed as shown on the plans. Homeruns must not be combined.
3. A single insulated equipment grounding conductor, sized as required, must be installed in each conduit run.

STANDARD NOTES

- [AB] Abandon. If applied to conduit, remove conductors.
- [BC] Install pull box in existing conduit run.
- [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 rope and plug.
- [FA] Remove foundation above grade and abandon foundation below grade.
- [RL] Relocate equipment.
- [RLD] Relocated equipment.
- [SC] Splice new to existing conductors.

STANDARD PLANS

Dated 2010

- RSP ES-8A
- RSP ES-8B
- ES-13A

SYMBOLS

- ∠ ANGLE
- @ AT
- ° DEGREES
- Δ DELTA
- Ω OHM(S)
- ∅ PHASE
- ± PLUS OR MINUS

DESIGN	BY	Beatrice Bindu	CHECKED	Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS	NOTES AND ABBREVIATIONS	SHEET	OF		
	DETAILS	BY	Kathi Andreasen	CHECKED			Beatrice Bindu	POST MILE			49.6	EEO-1	2	45
	QUANTITIES	BY	Beatrice Bindu	CHECKED			Jipinderpal Kaur	UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331			DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	2	45

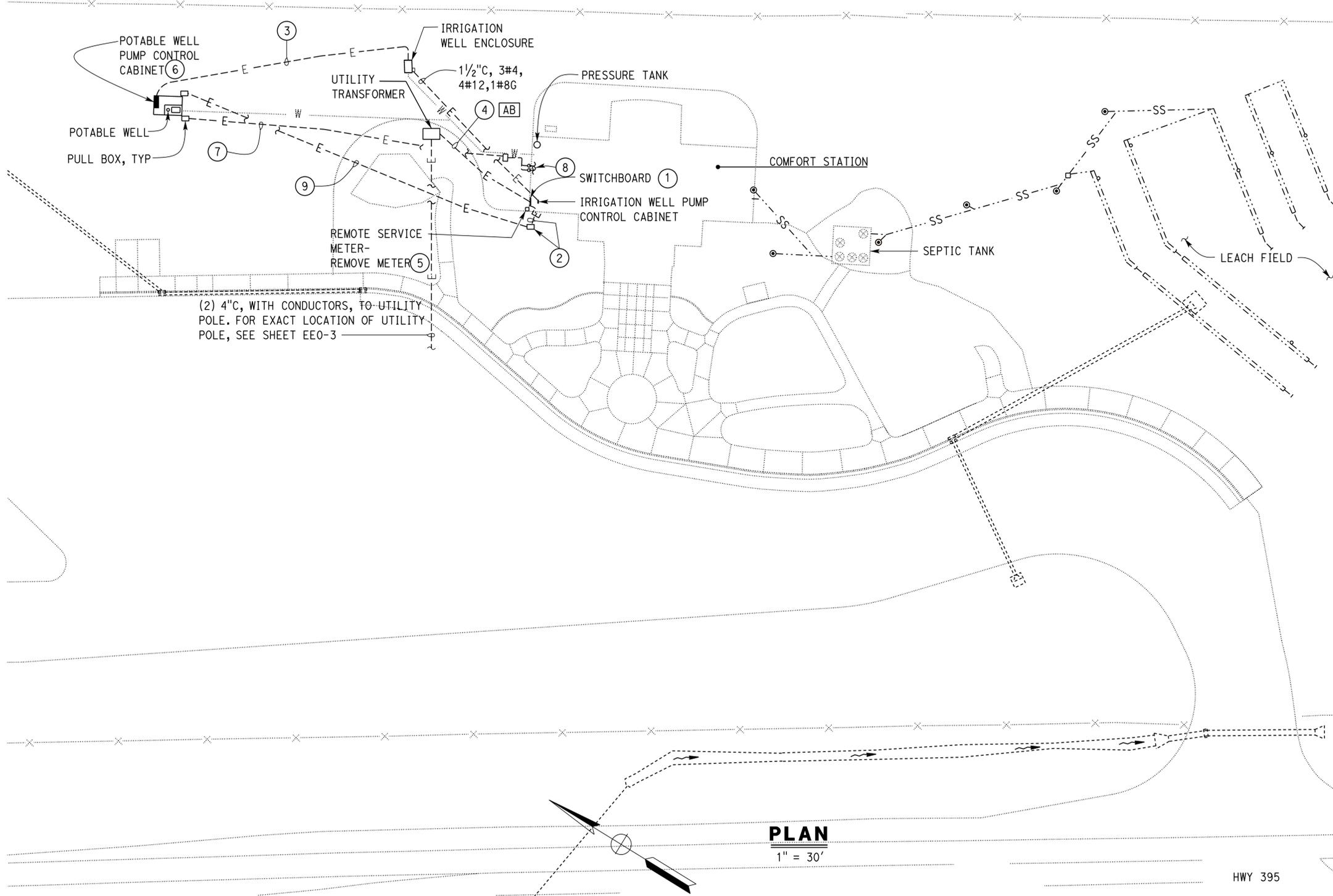
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

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 Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	64	106
Registered Electrical Engineer <i>Jaswinder Gill</i> REGISTERED ELECTRICAL ENGINEER DATE 6-19-15			REGISTERED PROFESSIONAL ENGINEER No. E 18551 Exp. 12-31-16 ELEC STATE OF CALIFORNIA		
6-22-15			PLANS APPROVAL DATE		
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- NOTES:
- ① For work inside Switchboard, see sheet EE0-6.
 - ② Existing (2) 4"C, to existing Switchboard. Perform the following:
 - (1) Existing 4"C, 3#1/0, 1#8G, Disconnect conductors from circuit breaker feeding Potable Well Pump Control Cabinet. Remove conductors upto the potable well pump control cabinet.
 - Install No. 6 traffic rated pull box with tamper resistance cover.
 - Install 3#500 kcmil, 1#500 kcmil G in each of the 4"C and terminate conductors on the new Building Disconnect.
 - ③ 1"C, Sensor cable.
 - ④ Remove conductors and abandon conduit. Coordinate with Utility Company for Service conductors removal.
 - ⑤ Coordinate with Utility Company for meter removal.
 - ⑥ For Details of work in this area, see sheets EE0-3 and EE0-5.
 - ⑦ (1) 1"C, Sensor cable.
(1) 1"C, 2#10, 1#10G to Pressure Tank at Comfort Station.
 - ⑧ To Pressure Tank and flow meter inside the water treatment area at the Comfort Station.
 - ⑨ -4"C, 3#1/0, 1#8G. Remove conductors.
-4"C, MT.

PLAN
 1" = 30'

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN SUPERVISOR <i>Paul Schreff</i>	DESIGN BY Beatrice Bindu	CHECKED Jipinderpal Kaur
DESIGN ENGINEER <i>Nash Chopra</i>	DETAILS BY Kathi Andreasen	CHECKED Beatrice Bindu
	QUANTITIES BY Beatrice Bindu	CHECKED Jipinderpal Kaur

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN
 BRIDGE No. 07R0003
 POST MILE 49.6

HONEY LAKE SRRA
 WASTEWATER SYSTEM IMPROVEMENTS
 EXISTING SITE PLAN
 SHEET OF
EE0-2
 OF 45

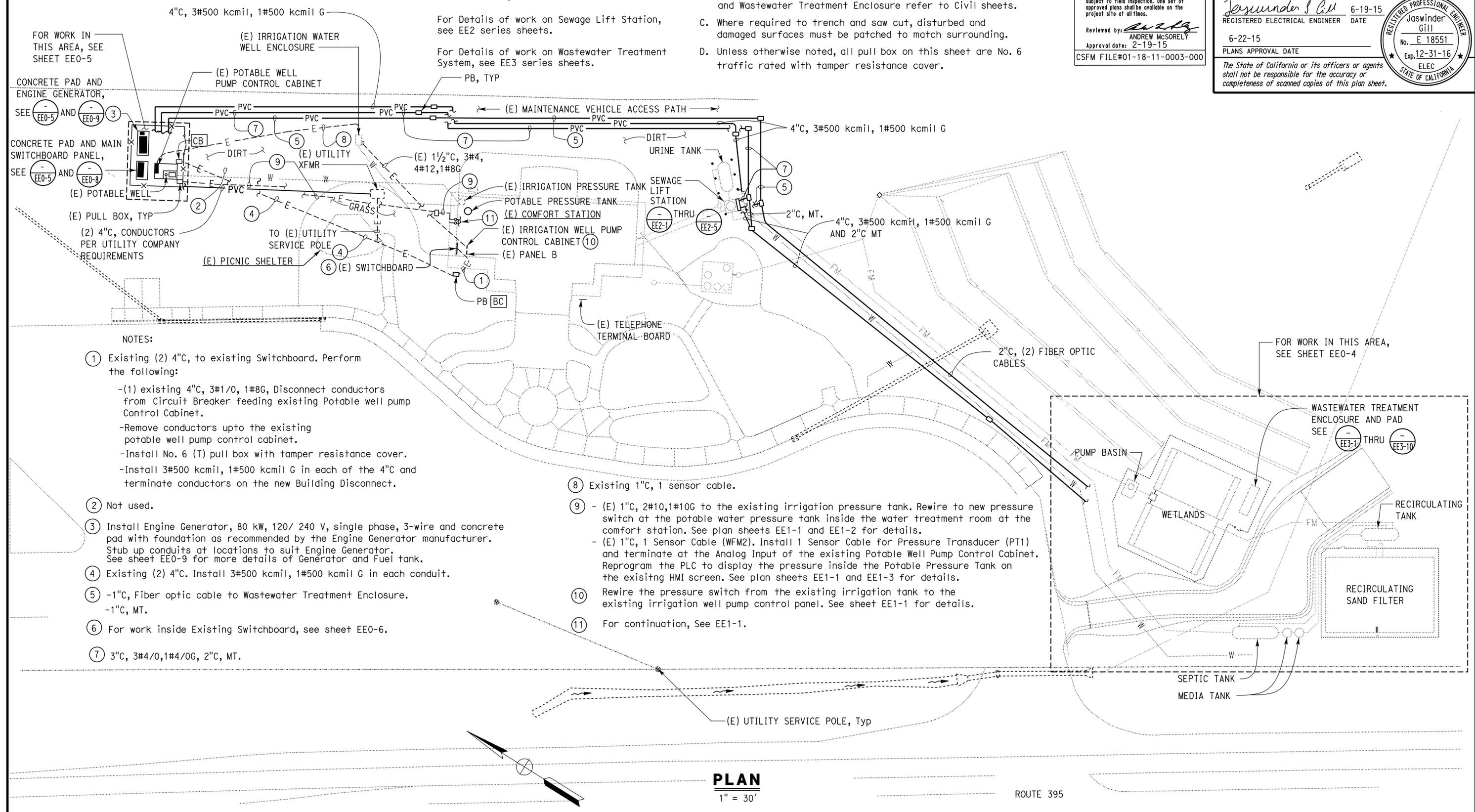
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. The set of approved plans shall be available on the project site at all times.	
Reviewed by: <i>Andrew McSorely</i>	DATE: 6-19-15
Approval date: 2-19-15	
CSFM FILE#01-18-11-0003-000	

REGISTERED PROFESSIONAL ENGINEER Jaswinder Gill No. E 18551 Exp. 12-31-16 ELEC STATE OF CALIFORNIA	
6-22-15 PLANS APPROVAL DATE	
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GENERAL NOTES

- A. For Details of work on new and existing Pressure Tank, see EE1 series sheets.
 - B. For exact location of Sewage Lift Station and Wastewater Treatment Enclosure refer to Civil sheets.
 - C. Where required to trench and saw cut, disturbed and damaged surfaces must be patched to match surrounding.
 - D. Unless otherwise noted, all pull box on this sheet are No. 6 traffic rated with tamper resistance cover.
- For Details of work on Sewage Lift Station, see EE2 series sheets.
- For Details of work on Wastewater Treatment System, see EE3 series sheets.



- NOTES:**
- ① Existing (2) 4"C, to existing Switchboard. Perform the following:
 - (1) existing 4"C, 3#1/0, 1#8G, Disconnect conductors from Circuit Breaker feeding existing Potable well pump Control Cabinet.
 - Remove conductors upto the existing potable well pump control cabinet.
 - Install No. 6 (T) pull box with tamper resistance cover.
 - Install 3#500 kcmil, 1#500 kcmil G in each of the 4"C and terminate conductors on the new Building Disconnect.
 - ② Not used.
 - ③ Install Engine Generator, 80 kW, 120/ 240 V, single phase, 3-wire and concrete pad with foundation as recommended by the Engine Generator manufacturer. Stub up conduits at locations to suit Engine Generator. See sheet EE0-9 for more details of Generator and Fuel tank.
 - ④ Existing (2) 4"C. Install 3#500 kcmil, 1#500 kcmil G in each conduit.
 - ⑤ -1"C, Fiber optic cable to Wastewater Treatment Enclosure. -1"C, MT.
 - ⑥ For work inside Existing Switchboard, see sheet EE0-6.
 - ⑦ 3"C, 3#4/0, 1#4/0G, 2"C, MT.

- ⑧ Existing 1"C, 1 sensor cable.
- ⑨ - (E) 1"C, 2#10, 1#10G to the existing irrigation pressure tank. Rewire to new pressure switch at the potable water pressure tank inside the water treatment room at the comfort station. See plan sheets EE1-1 and EE1-2 for details.
 - (E) 1"C, 1 Sensor Cable (WFM2). Install 1 Sensor Cable for Pressure Transducer (PT1) and terminate at the Analog Input of the existing Potable Well Pump Control Cabinet. Reprogram the PLC to display the pressure inside the Potable Pressure Tank on the existing HMI screen. See plan sheets EE1-1 and EE1-3 for details.
- ⑩ Rewire the pressure switch from the existing irrigation tank to the existing irrigation well pump control panel. See sheet EE1-1 for details.
- ⑪ For continuation, See EE1-1.

PLAN
1" = 30'

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY: Beatrice Bindu	CHECKED: Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS MODIFIED SITE PLAN	SHEET 4
DETAILS BY: Kathi Andreasen	CHECKED: Beatrice Bindu			POST MILE 49.6		OF 45
QUANTITIES BY: Beatrice Bindu	CHECKED: Jipinderpal Kaur			49.6		

UNIT: 3597 CONTRACT No.: 02-4E6904	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 4	OF 45
PROJECT NUMBER & PHASE: 02120000331		9-9-13 12-9-13 2-11-14 2-28-14 5-12-14 9-8-14 11-14-14 12-2-14 2-18-15 6-19-15		

TAEMWW Imperial - CCSC Rev. 02/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	66	106

6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE
 6-22-15
 PLANS APPROVAL DATE
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Jaswinder S Gill
 REGISTERED PROFESSIONAL ENGINEER
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

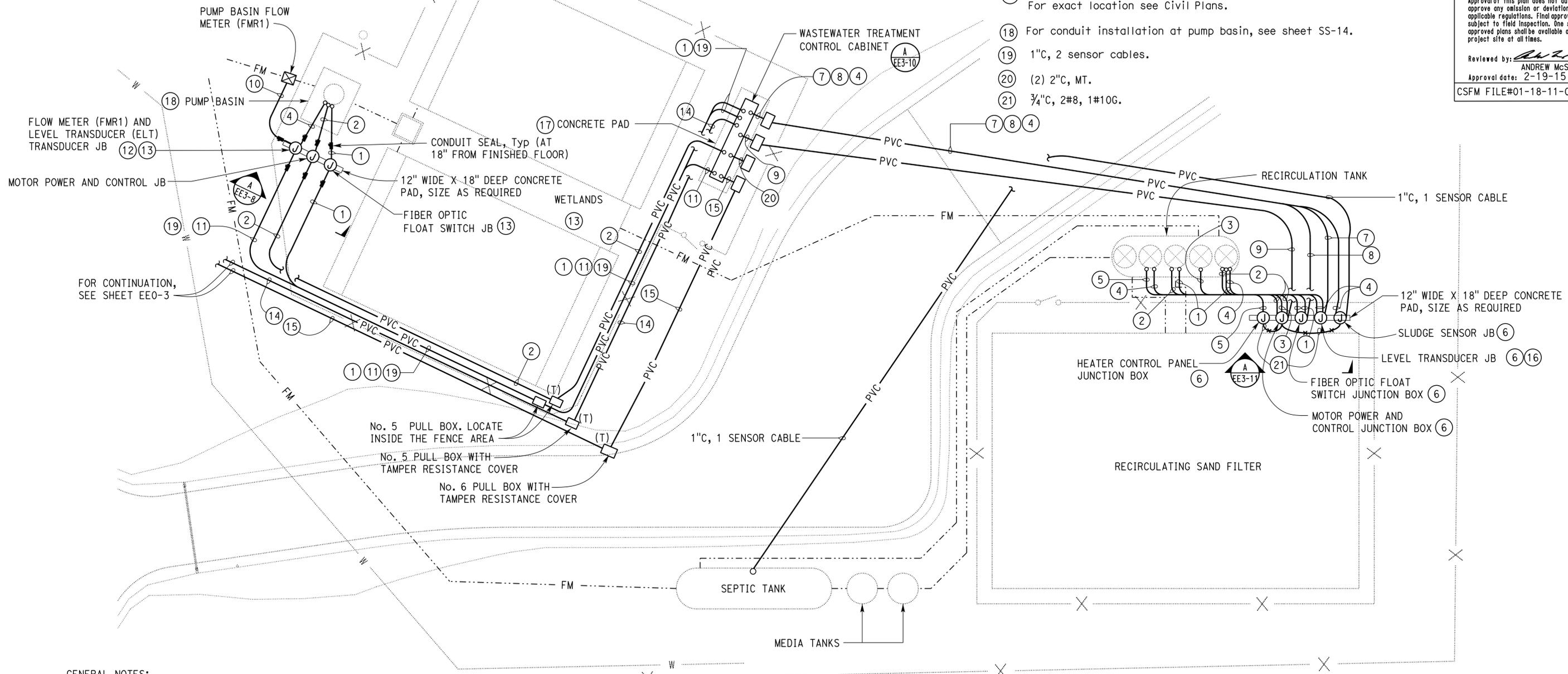
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

- NOTES:
- 1" C, 2 Fiber optic float switch cables.
 - 1" C, 2 Motor power and control cables.
 - 1" C, 1 Motor power and control cable.
 - 1" C, 1 sensor cable.
 - 1" C, 1 Heater power and control cable.
 - See sheet EE3-11 for conduit termination at junction box. Provided conduit seals, as shown.

- 7 -1" C, 2 Sensor cables to PLC Cabinet
-1" C, MT to PLC Cabinet.
- 8 -2" C, 4 Fiber optic patch cords and 2 spare patch cords to PLC Cabinet.
-2" C, MT to PLC Cabinet.
- 9 -2" C, 6#8, 1#10G and control conductors as required (Pump SSP1, DP1 and DP2).
-2" C, 4#8, 1#10G and control conductors as required (Pump RP1 and RP2).
-1" C, 4#8, 1#10G from Panel P.
-2" C, MT.

- 10 (2) 3/4" C, with sensor cables as required to flow meter vault. See sheet SS-14 for conduit termination.
- 11 3/4" C, 2#10, 1#12G (Panel P) Power to flow meter controller.
- 12 Perform the following:
-Install the flow meter controller and display inside the junction box.
-Install maintenance free descient for terminating the breather tube of the level transducer and provide terminal blocks for terminating the transducer sensor conductors.

- 13 Support these transducer boxes and junction boxes 36" above the finished grade using construction channel embedded inside the concrete pad.
- 14 2" C, 2 Fiber optic cables.
- 15 4" C, 3#500 kcmil, 1# 500 kcmil ground.
- 16 Install maintenance free descient for terminating the breather tube of the level transducer and provide terminal blocks for terminating the transducer sensor conductors.
- 17 20'x6' Wastewater Treatment concrete foundation. For exact location see Civil Plans.
- 18 For conduit installation at pump basin, see sheet SS-14.
- 19 1" C, 2 sensor cables.
- 20 (2) 2" C, MT.
- 21 3/4" C, 2#8, 1#10G.



- GENERAL NOTES:
- Unless otherwise noted, all pull boxes shown on this sheet is No. 6 traffic rated pull box.
 - The conduit layout at the Recirculation Tank, Septic Tank and Pump Basin is diagrammatic only. Coordinate the conduit stub ups at junction boxes and at the tank risers.
 - Unless otherwise noted, all conduits are PVC coated MC on this sheet.

ENLARGED PLAN
 1" = 10'

- PLC cabinet is located at the wastewater treatment control cabinet enclosure.
- All junction boxes and transducer boxes shown on this sheet are weatherproof NEMA-4X boxes. provide terminal blocks, connectors and sensor cable terminating devices to terminate motor power and control cables, fiber optic switch cables and sensor cables as recommended by the manufacturer of these devices. Size boxes as required to accommodate all devices. Provide nameplates.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Beatrice Bindu	CHECKED Jipinderpal Kaur
DETAILS	BY Ed D. Tapalla	CHECKED Beatrice Bindu
QUANTITIES	BY Beatrice Bindu	CHECKED Jipinderpal Kaur

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 07R0003
 POST MILE 49.6

HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS
 ENLARGED MODIFIED SITE PLAN 1

SHEET OF
EE0-4
 5 45

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Reviewed by: *[Signature]*
 ANDREW MCSORELY
 Approval date: 2-19-15

CSFM FILE#01-18-11-0003-000

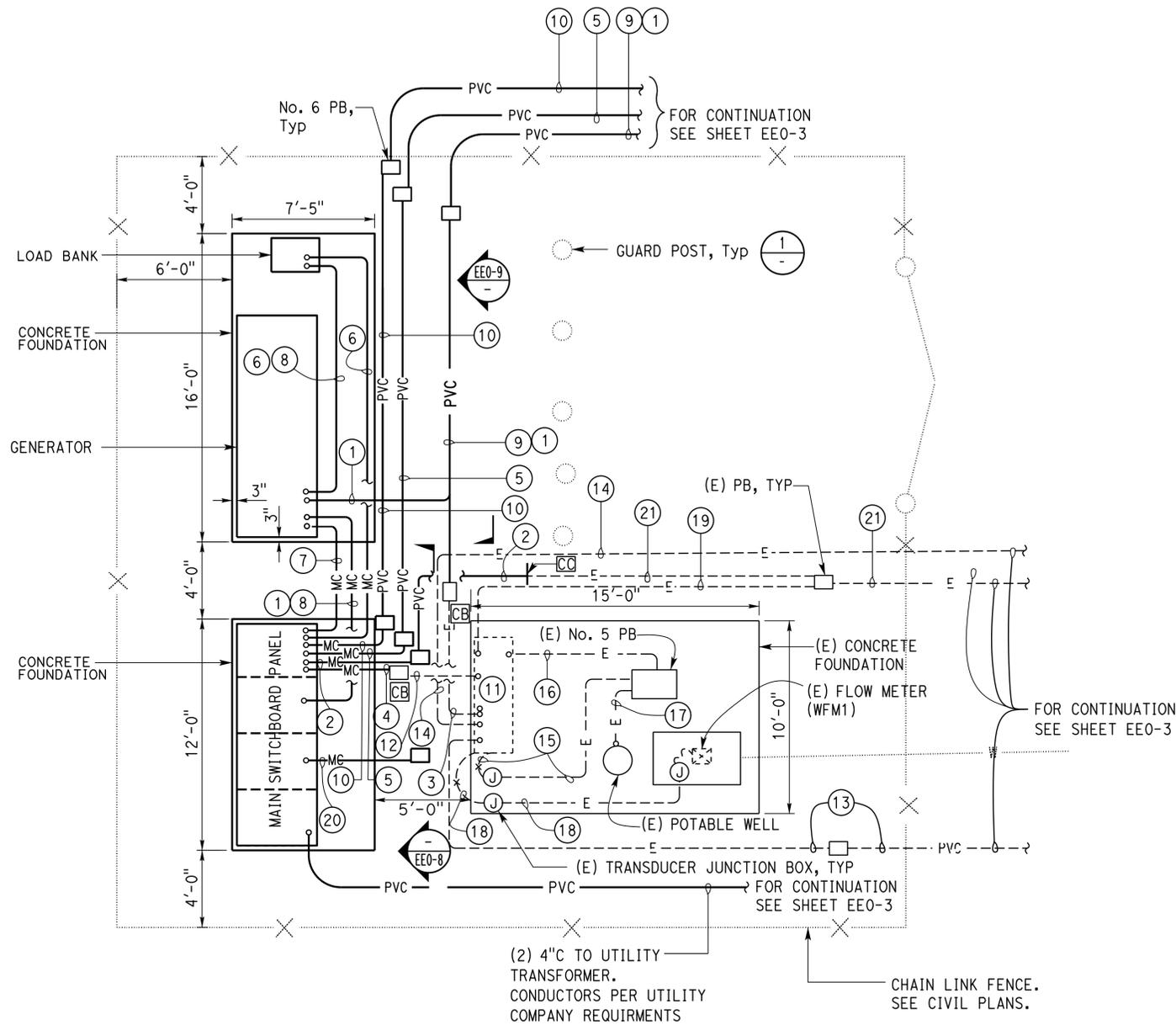
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	67	106

Jaswinder Gill 6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE

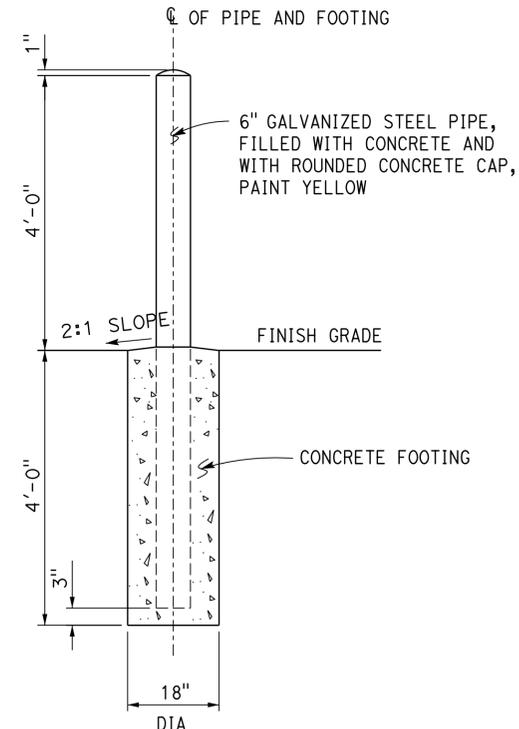
6-22-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Gill
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA



ENLARGED PLAN
 1/4" = 1'-0"



1 GUARD POST DETAIL
 NO SCALE

GENERAL NOTES:

- A. See sheet EE0-8 for Main Distribution Panel Elevation.
- B. See sheet EE0-9, for Generator Elevation.
- C. Conduit stub-up's are shown for reference only. Coordinate exact location with the equipment provided by the manufacturer.
- D. Ground wells and ground rods not shown here for clarity. See EE0-8 for the ground wells and ground rod locations.

NOTES:

- ① 1"C, MT.
- ② (2) 4"C, each with 3#500 Kcmil, 1#500 Kcmil G.
- ③ Existing 1"C. Install 1 Fiber Cable and terminate at the Fiber Distribution Unit inside the Potable Well Pump Control Cabinet. Provide and install the Fiber Distribution Unit and interconnect it to the existing PLC inside the Potable Well Pump Control Cabinet.
- ④ 2"C, MC, 3#1/0, 1#6G to Potable Well Pump Control Panel.
- ⑤ 3"C, 3#4/0, 1#4/0G to Sewage Lift Station.
- ⑥ 1"C, MC, Conductors as required.
- ⑦ (2) 1"C, MC each with, 2#8, 1#10G.
- ⑧ 4"C, MC, 3#500 kcmil, 1#500 kcmil G to Generator.
- ⑨ (1) 1"C, Fiber optic cable to the Wastewater Treatment Enclosure.
- ⑩ 4"C, 3#500 kcmil, 1#500 kcmil G to Wastewater Treatment Enclosure.
- ⑪ Potable Well Pump Control Cabinet. Disconnect existing power conductors from 100A/2P breaker. Remove conductors.
- ⑫ Existing 2"C. Install 3#1/0, 1#6G and terminate at the existing potable well pump control cabinet Main Disconnect.
- ⑬ See Note 9 of sheet EE0-3.
- ⑭ See Note 8 of sheet EE0-3.
- ⑮ (E) 1"C, 1 Sensor cable (WLT1).
- ⑯ (E) 1"C, Submersible motor power and control cable with equipment grounding conductor.
- ⑰ (E) 1 1/2"C, Submersible motor power, control cable and 1 sensor cable.
- ⑱ (E) 1"C, 1 Sensor cable (WFM1) and 2#12, 1#12G.
- ⑲ (E) 2"C, 3#1/0, 1#8G. Remove conductors.
- ⑳ (2) 2"C, MT.
- ㉑ Existing (2) 4"C. Install 3#500 Kcmil, 1#500 Kcmil G in each conduit.

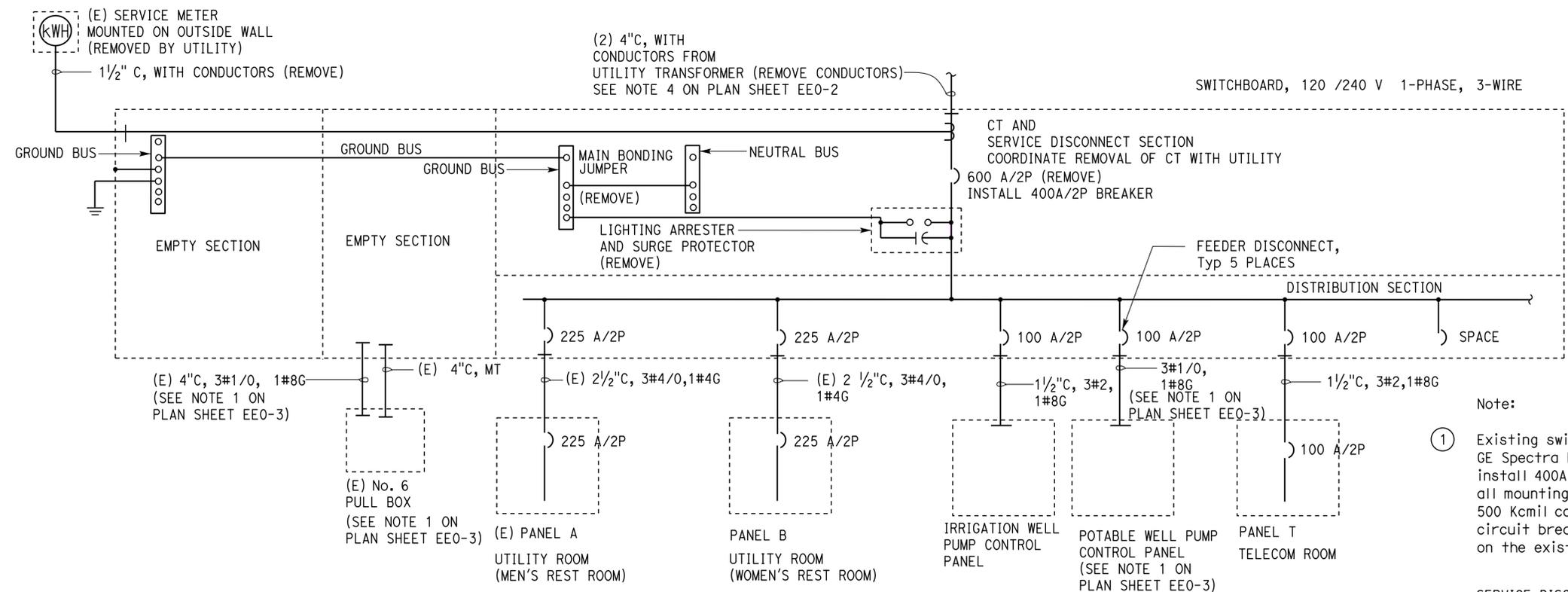
APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY	Beatrice Bindu	CHECKED	Jipinderpal Kaur	BRIDGE No.	07R0003	POST MILE	49.6	SHEET	OF		
	DETAILS	BY	Kathi Andreasen	CHECKED							Beatrice Bindu	
QUANTITIES	BY	Beatrice Bindu	CHECKED	Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		HONEY LAKE SRR WASTEWATER SYSTEM IMPROVEMENTS ENLARGED MODIFIED SITE PLAN 2		EEO-5	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 3-13-13, 3-14-13, 12-14-13, 2-18-15, 3-30-15, 6-19-15		6	45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	68	106

6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE
 6-22-15
 PLANS APPROVAL DATE
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Jaswinder Gill
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

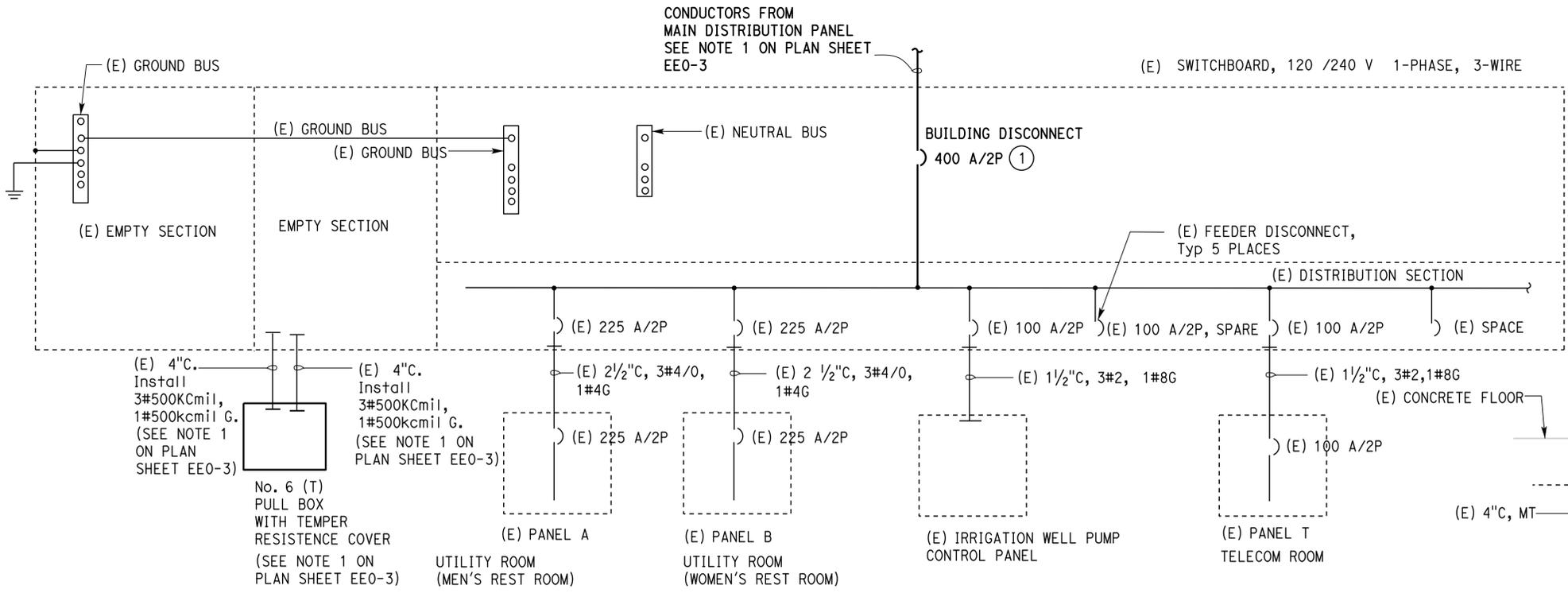


EXISTING SINGLE LINE DIAGRAM (SWITCHBOARD COMFORT STATION)

Note:
 ① Existing switchboard is 600A, 120-240 V, 42 K SCCR, GE Spectra Bolt-On AV2 Switchboard. Provide and install 400A, 2P, 240V circuit breaker. Provide and install all mounting hardware and lugs to terminate 2 sets of 500 Kcmil conductors for each phase on the 400A, 2P circuit breaker. Provide lugs for terminating conductors on the existing neutral bus and existing ground bus as required.

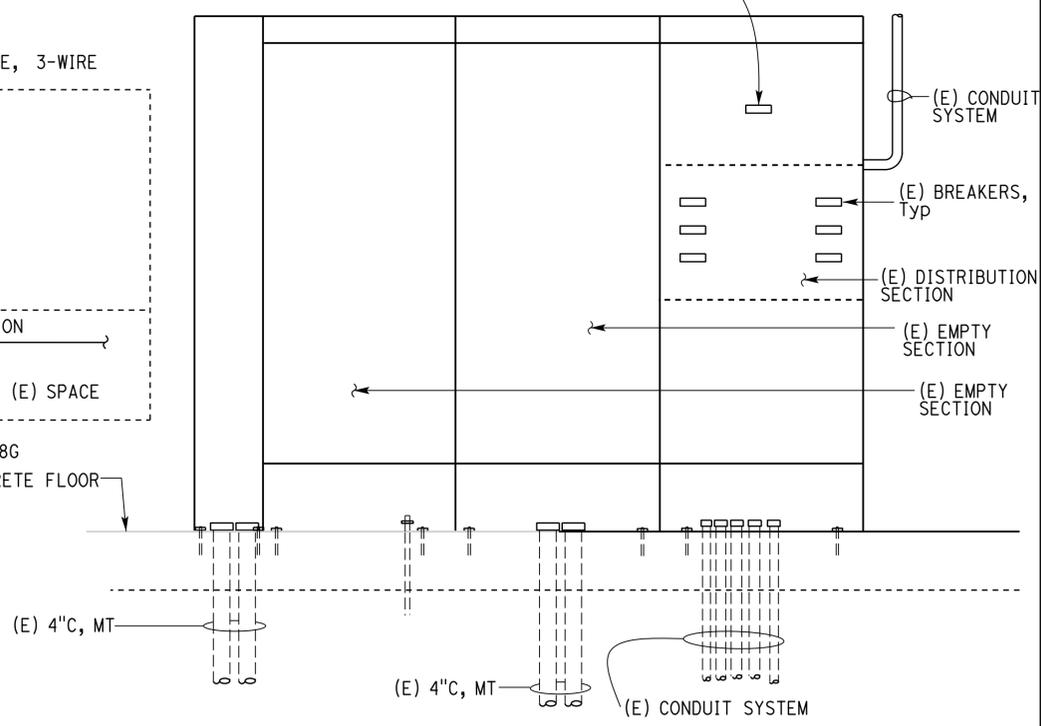
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

SERVICE DISCONNECT (REMOVE)
 INSTALL 400A/2P BREAKER
 INSTALL NAMEPLATE WITH INSCRIPTION "BUILDING DISCONNECT" ①



MODIFIED SINGLE LINE DIAGRAM (SWITCHBOARD COMFORT STATION)

(NEW ITEMS ARE SHOWN IN BOLD)



EXISTING SWITCHBOARD

NO SCALE

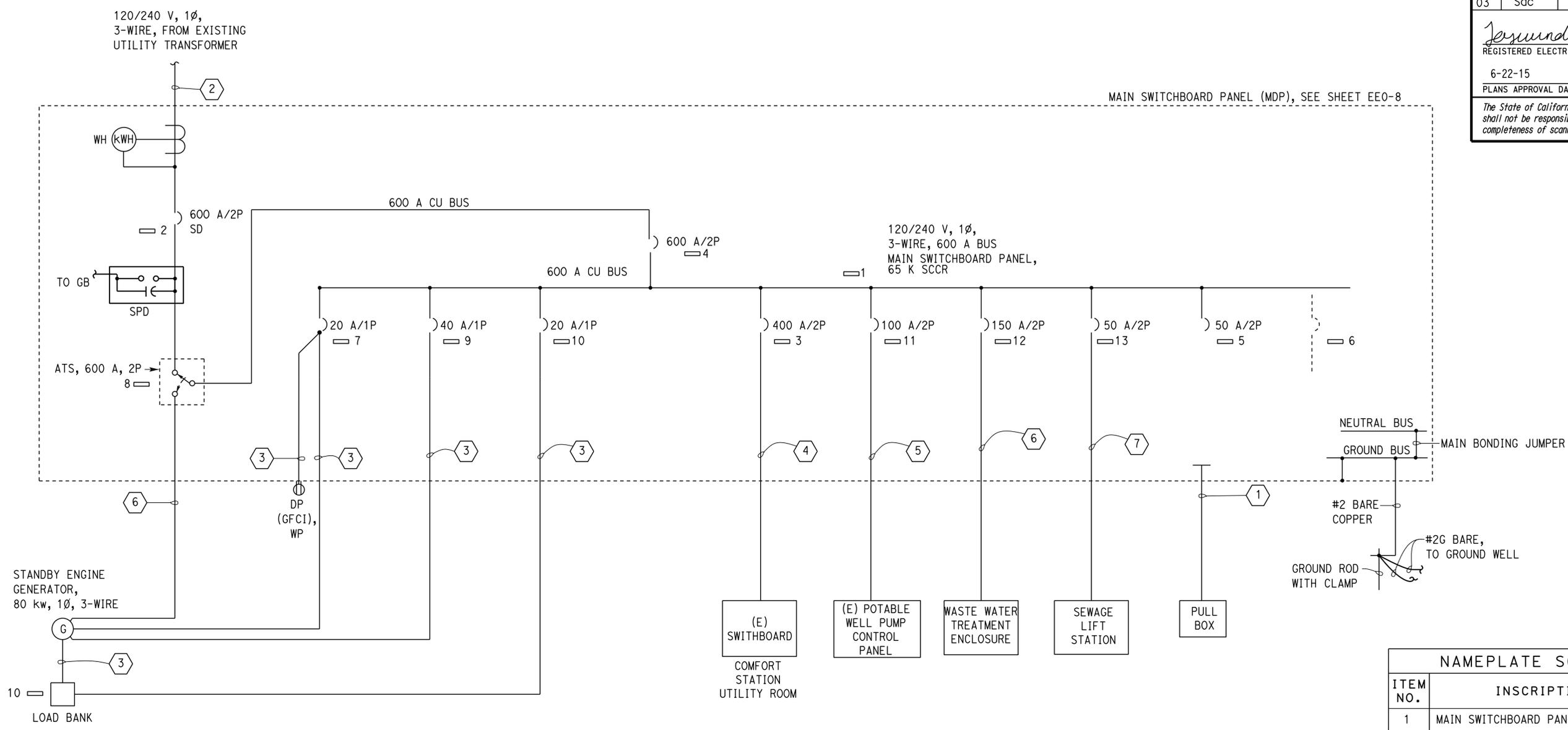
DESIGN	BY	Beatrice Bindu	CHECKED	Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS SWITCHBOARD COMFORT STATION AND SINGLE LINE DIAGRAM	SHEET EEO-6	
	DETAILS	BY	Kathi Andreasen/Y Sun	CHECKED			Beatrice Bindu	POST MILE			49.6
	QUANTITIES	BY	Beatrice Bindu	CHECKED			Jipinderpal Kaur	UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 0212000331			DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	REVISION DATES (PRELIMINARY STAGE ONLY)			7 45		

TAEWW Imperial - CCSC Rev. 02/13
 24-JUN-2015 16:50
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	69	106

6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE
 6-22-15
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Gill
 No. E 18551
 Exp. 12-31-16
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 STATE OF CALIFORNIA



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 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

FEEDER SCHEDULE (THIS SHEET ONLY)	
ITEM No.	DESCRIPTION
1	(2) 2" C, MT, SPARE
2	(2) 4" C, CONDUCTORS PER UTILITY COMPANY REQUIREMENTS
3	1" C, CONDUCTORS AS REQUIRED
4	(2) 4" C, 3#500 kcmil, 1#500 kcmil G IN EACH CONDUIT
5	2" C, 3#1/0, 1#6G
6	4" C, 3#500 kcmil, 1#500 kcmil G
7	3" C, 3#4/0, 1#4/0 G

SINGLE LINE POWER DISTRIBUTION DIAGRAM
MAIN SWITCHBOARD PANEL

NAMEPLATE SCHEDULE		
ITEM NO.	INSCRIPTION	LETTER HEIGHT
1	MAIN SWITCHBOARD PANEL	1/4"
2	SERVICE DISCONNECT	1/4"
3	SWITCHBOARD (COMFORT STATION)	1/4"
4	MAIN BREAKER	1/4"
5	SPARE	1/4"
6	SPACE	1/4"
7	RECEPTACLE AND BATTERY CHARGER	1/4"
8	AUTOMATIC TRANSFER SWITCH	1/4"
9	HEATER	1/4"
10	LOAD BANK	1/4"
11	POTABLE WELL PUMP CONTROL PANEL	1/4"
12	WASTEWATER TREATMENT ENCLOSURE	1/4"
13	SEWAGE LIFT STATION	1/4"

DESIGN BY: Beatrice Bindu CHECKED: Jipinderpal Kaur	DETAILS BY: Kathi Andreasen/Y Sun CHECKED: Beatrice Bindu	QUANTITIES BY: Beatrice Bindu CHECKED: Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS MAIN SWITCHBOARD POWER DISTRIBUTION DIAGRAM	SHEET 8 OF 45
					POST MILE 49.6		REVISION DATES (PRELIMINARY STAGE ONLY) 9-13-13 9-23-13 5-9-14 9-24-14 11-14-14 12-2-14 2-18-15 6-19-15
TAEWW Imperial - CCSC Rev. 02/13			UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		

24-JUN-2015 16:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	70	106

Approved by: *Jaswinder Gill* 6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE
 6-22-15
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Gill
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

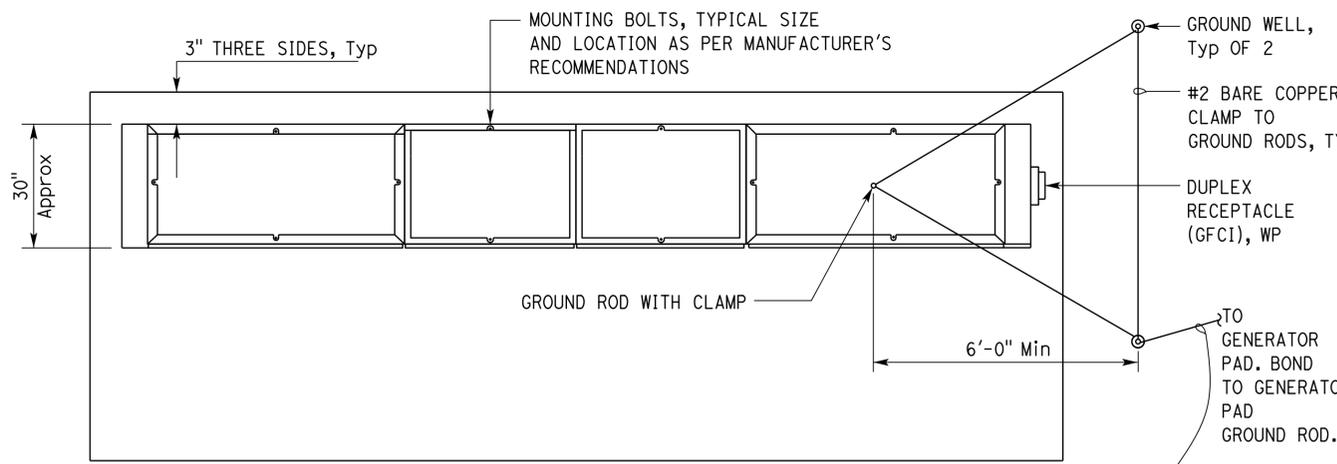
NAMEPLATE SCHEDULE *		
ITEM No.	INSCRIPTION	LETTER HEIGHT
1	UTILITY CURRENT TRANSFORMER	1/2"
2	UTILITY PULL SECTION	1/2"
3	UTILITY METERING	1/2"
4	SERVICE DISCONNECT 240 V, 1-PHASE, 600 A	1/2"
5	DISTRIBUTION SECTION	1/2"
6	SWITCHBOARD COMFORT STATION	1/2"
7	NORTH WELL PUMP CONTROL PANEL	1/2"
8	WASTEWATER TREATMENT ENCLOSURE	1/2"
9	SPARE	1/2"
10	SEWAGE LIFT STATION	1/2"
11	SPARE	1/2"
12	RECEPTACLE AND BATTERY CHARGER	1/2"
13	HEATER	1/2"
14	LOAD BANK	1/2"
15	SPACE	1/2"
16	MAIN BREAKER	1/2"
17	SPACE	1/2"

* White lettering on black phenolic

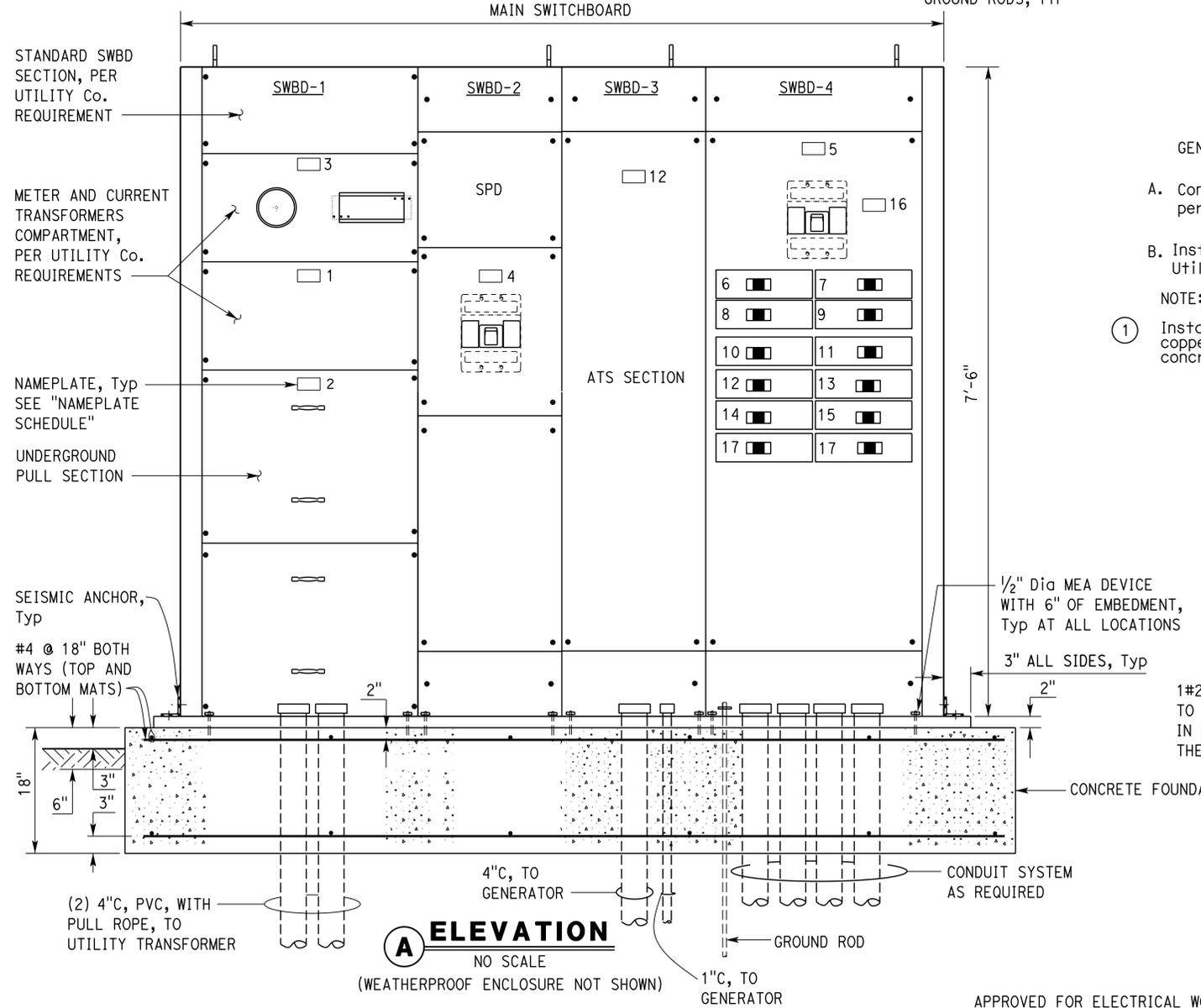
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Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000



PLAN

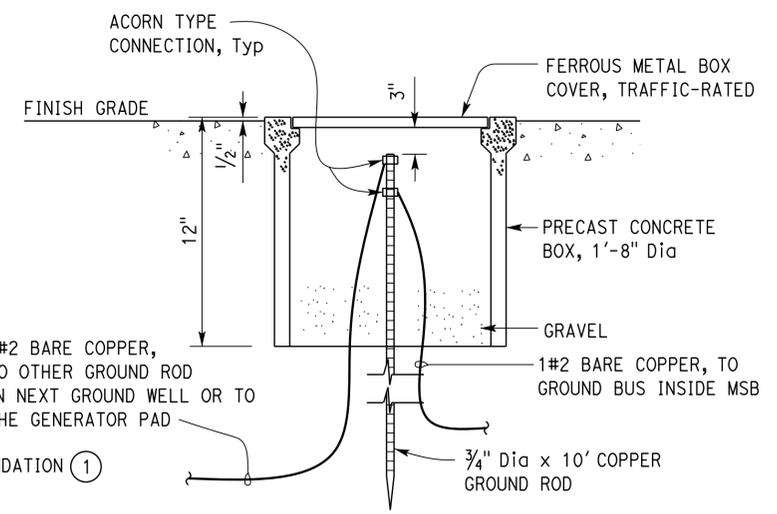


ELEVATION

NO SCALE
(WEATHERPROOF ENCLOSURE NOT SHOWN)

GENERAL NOTES:

- A. Contractor must provide Arc Flash Hazard labels as per NEC 110.16.
 - B. Installation of Main Switchboard Panel must be per Utility Company requirements.
- NOTE:
- ① Install a continuous 20 feet long concrete encased #4 AWG bare copper electrode with minimum of 2 inch concrete cover inside the concrete foundation and tie the electrode to the ground bus.



GROUND WELL DETAIL

NO SCALE

! WARNING

ARC FLASH AND SHOCK HAZARD

Appropriate PPE and Tools Required when working on this equipment.

ORANGE BACKGROUND
BLACK LETTERING, Typ

2 WARNING LABEL

NO SCALE

Note: Install this Warning Label at all Sections of the Switchboard.

* Warning label must be constructed with high degree of chemical abrasion, heat resistance and UL recognized material. Install this label on all sections of the Main Switchboard.

! WARNING

ARC FLASH AND SHOCK HAZARD

Appropriate PPE and Tools Required when working on this equipment.

ORANGE BACKGROUND
BLACK LETTERING, Typ

Available Fault Current:
*

Installation Date:
*

1 WARNING LABEL

Note: Main switchboard must be legibly marked in the field with the available fault current to comply with NEC 110.24(A).

* Coordinate with Utility Company for the available fault current.

REVIEWED BY: <i>Serone R. Yarruto</i>	DESIGN BY: Beatrice Bindu	CHECKED: Jipinderpal Kaur
	DETAILS BY: Dali Zhou	CHECKED: Beatrice Bindu
	QUANTITIES BY: Beatrice Bindu	CHECKED: Jipinderpal Kaur

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 07R0003
POST MILE 49.6

HONEY LAKE SRRA
WASTEWATER SYSTEM IMPROVEMENTS

MAIN SWITCHBOARD PANEL ELEVATION

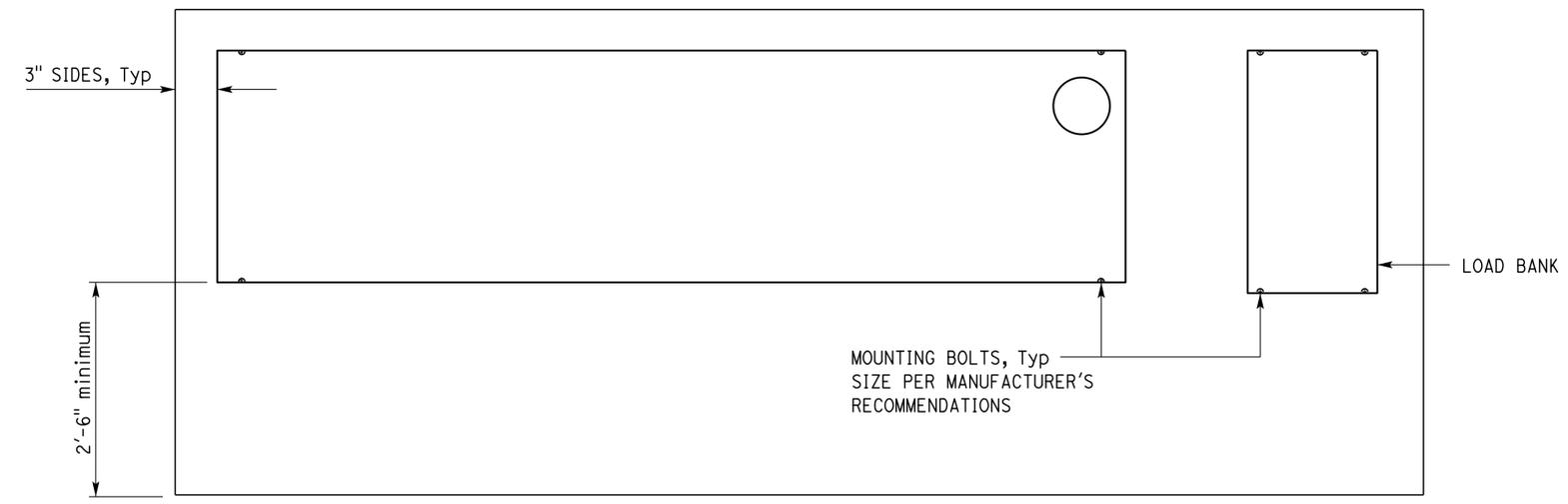
SHEET EEO-8 OF 45

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 ANDREW MCSORELY
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	71	106

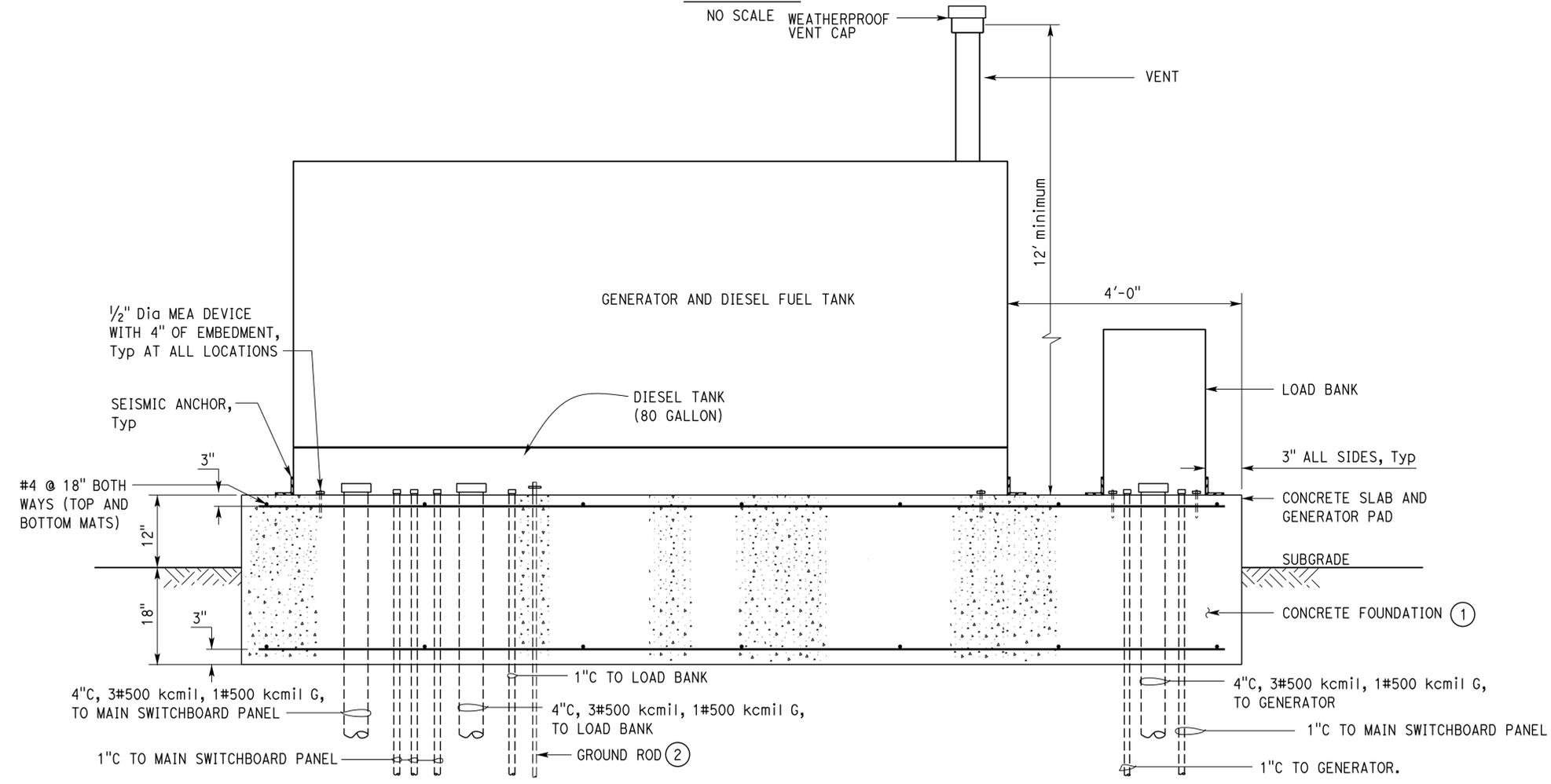
Jaswinder Gill 6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE
 6-22-15
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Gill
 No. E 18551
 Exp. 12-31-16
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 STATE OF CALIFORNIA



PLAN

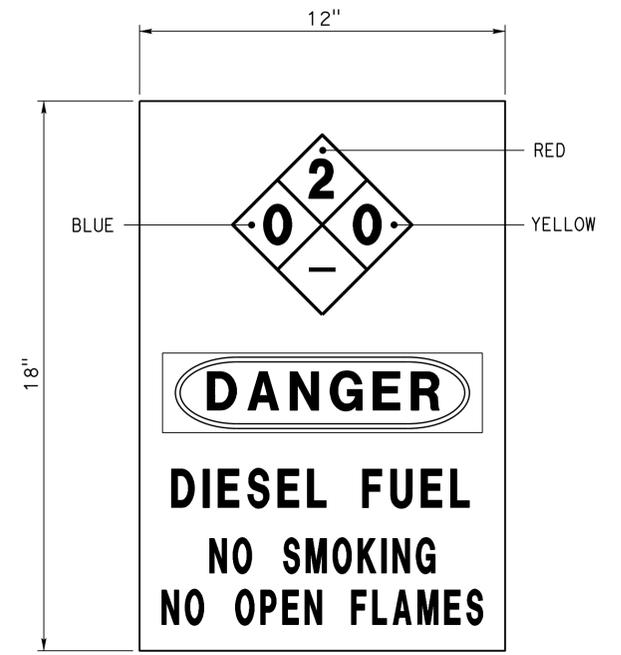
NO SCALE WEATHERPROOF VENT CAP



A ELEVATION

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY



1 WARNING LABEL *

NO SCALE
 Note: Install Safety Sign with NFPA 704 hazard rating Diamond for Diesel Fuel.
 Health Hazard (Blue) - 0
 Flammability (Red) - 2
 Instability (Yellow) - 0
 Dimensions as shown.

* Warning label must be constructed with high degree of chemical abrasion, heat resistance and UL recognized material. Install this label on the Standby Generator.

NOTES:

- ① Install a continuous 20 feet long concrete encased #4 AWG bare copper electrode with minimum of 2 inch concrete cover inside the concrete foundation and tie the electrode to the ground rod.
- ② Coordinate the installation of ground rod with the exact location of the generator control panel.

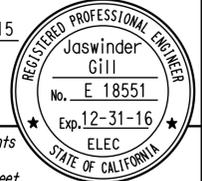
REVIEWED BY: <i>Serone R. Marotta</i>	DESIGN BY: Beatrice Bindu	CHECKED: Jipinderpal Kaur
	DETAILS BY: Dali Zhou	CHECKED: Beatrice Bindu
	QUANTITIES BY: Beatrice Bindu	CHECKED: Jipinderpal Kaur

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No. 07R0003
	ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE 49.6

HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS		SHEET EEO-9
GENERATOR ELEVATION		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	72	106

Registered Electrical Engineer
 6-19-15
 DATE
 6-22-15
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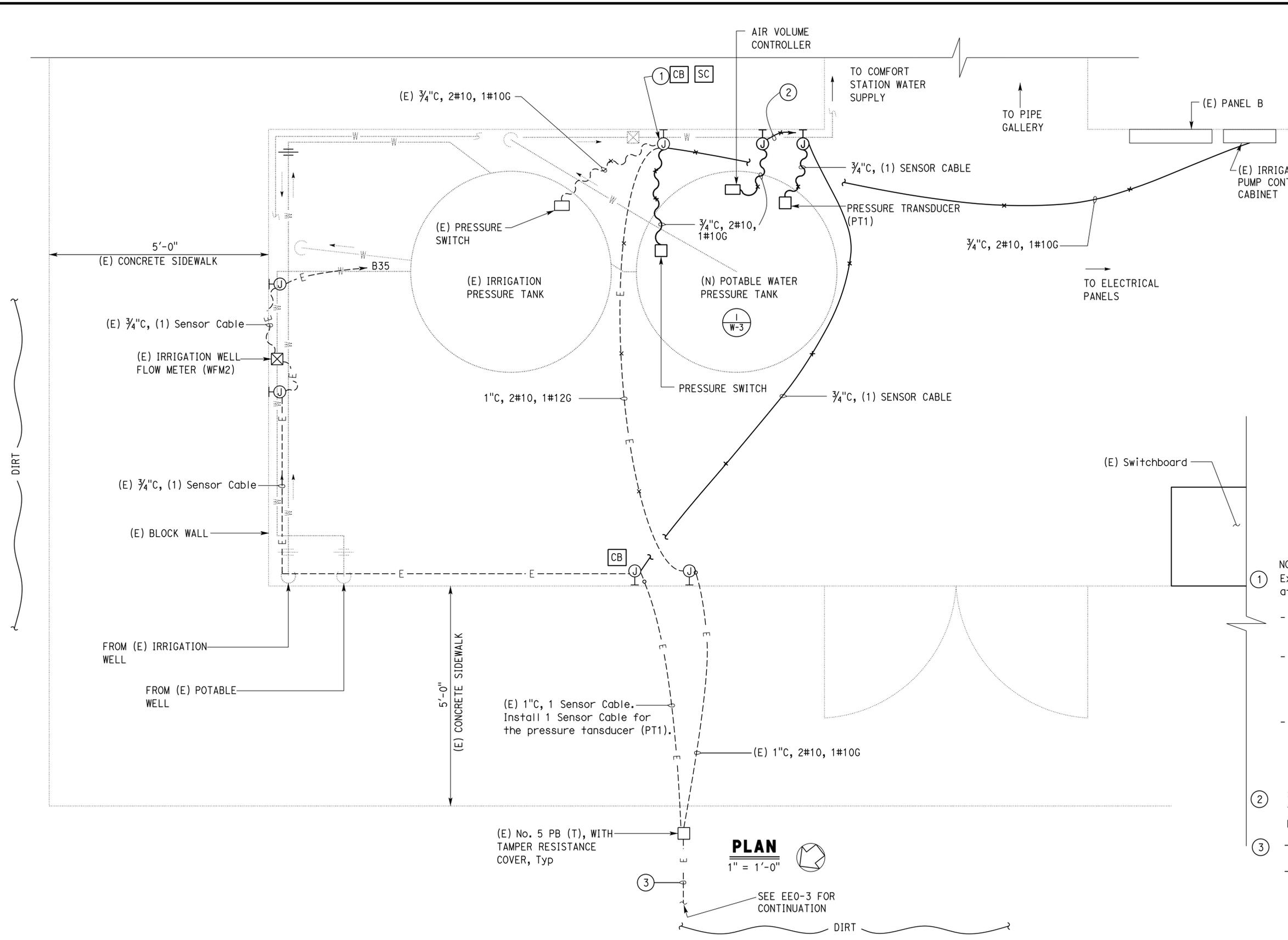
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 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

GENERAL NOTES:

- Complete low voltage control conduits and conductors are not shown on this plan sheet. For location of AVC, Pressure Switch, Pressure Transducer and flow meters, see Water "W" plan sheets.
- All cables must be per PLC manufacturer requirements.
- All conductors/cables between low voltage devices and control panel shall be unspliced unless otherwise noted.
- For work on the Pressure Tanks, see "W"-sheets.

NOTES:

- Existing junction box. Perform the following at the junction box:
 - Cut the 2#10 wires going to the existing pressure switch at the existing irrigation pressure tank inside the junction box.
 - Install 3/4"C with 2#10, 1#10G from the existing irrigation well pump control cabinet and splice the existing 2#10 wires coming from the existing pressure switch to the new 2#10 wires coming from the existing irrigation well pump control cabinet.
 - Install 3/4"C with 2#10, 1#10G to the new pressure switch located at the new potable water pressure tank. Splice the new 2#10 wires to existing 2#10 wires going through the existing 1"C to the existing potable well pump control cabinet.
- 3/4"C, 2#10, 1#10G (B41) to the existing Panel B. Terminate wires on to the existing spare circuit breaker.
- (E) 1"C, 1 Sensor Cable. Install 1 Sensor Cable for the pressure transducer (PT1).
 - (E) 1"C, 2#10, 1#10G.



PLAN
1" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Beatrice Bindu	CHECKED Jipinderpal Kaur
DETAILS	BY Dali Zhou	CHECKED Beatrice Bindu
QUANTITIES	BY Beatrice Bindu	CHECKED Jipinderpal Kaur

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No.	07R0003
POST MILE	49.6

HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS
 WATER TREATMENT ROOM

SHEET **EE1-1** OF 45

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Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
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CSFM FILE#01-18-11-0003-000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Lgs, Sac	395, 5	49.6, 23.3	73	106

Jaswinder Gill 6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE

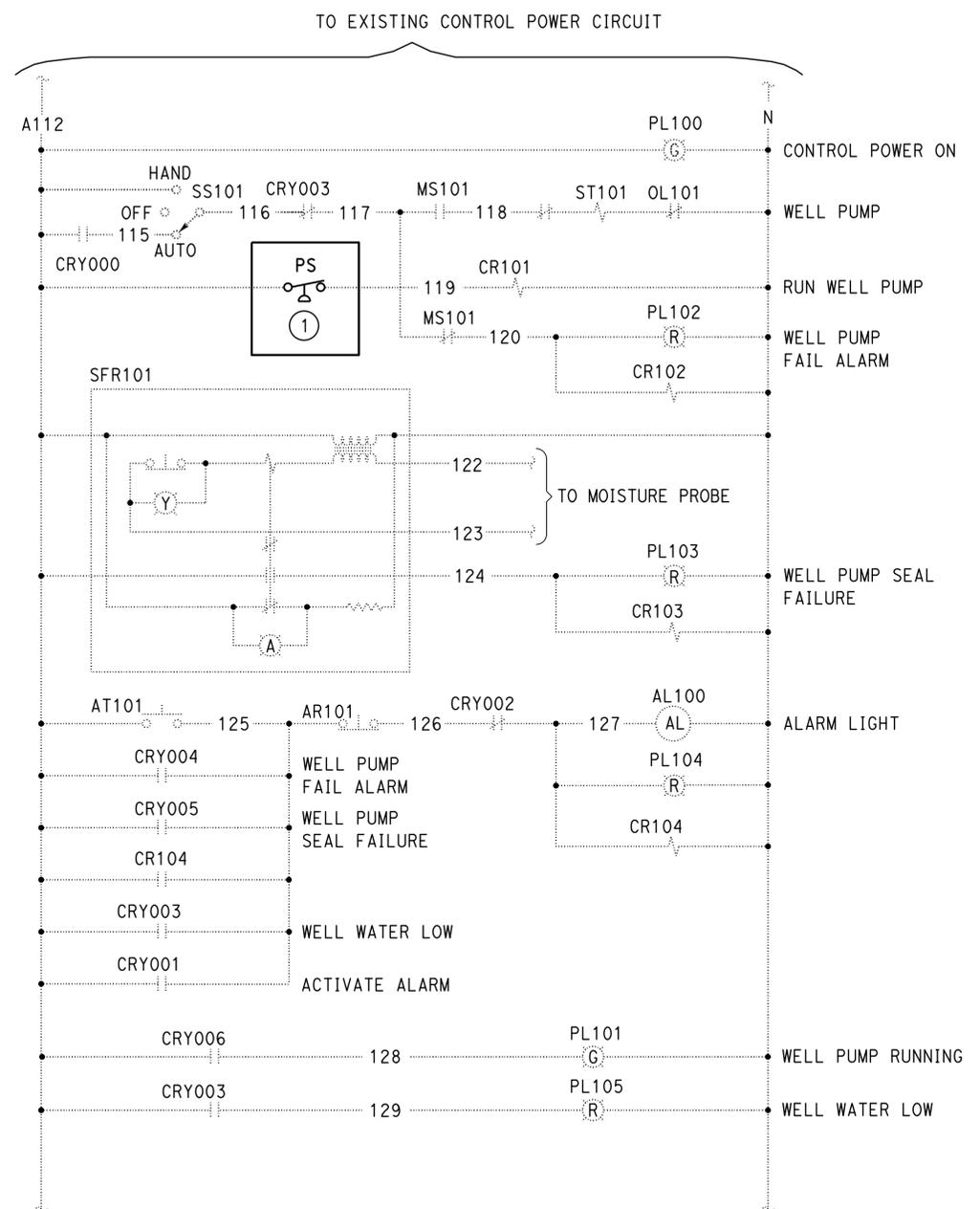
6-22-15
 PLANS APPROVAL DATE

Jaswinder Gill
 No. E 18551
 Exp. 12-31-16
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GENERAL NOTES:
 A. New item is shown in bold.

NOTE:
 ① Replace with pressure switch from Potable Water Pressure Tank and rewire. See sheet EE1-1 for details.

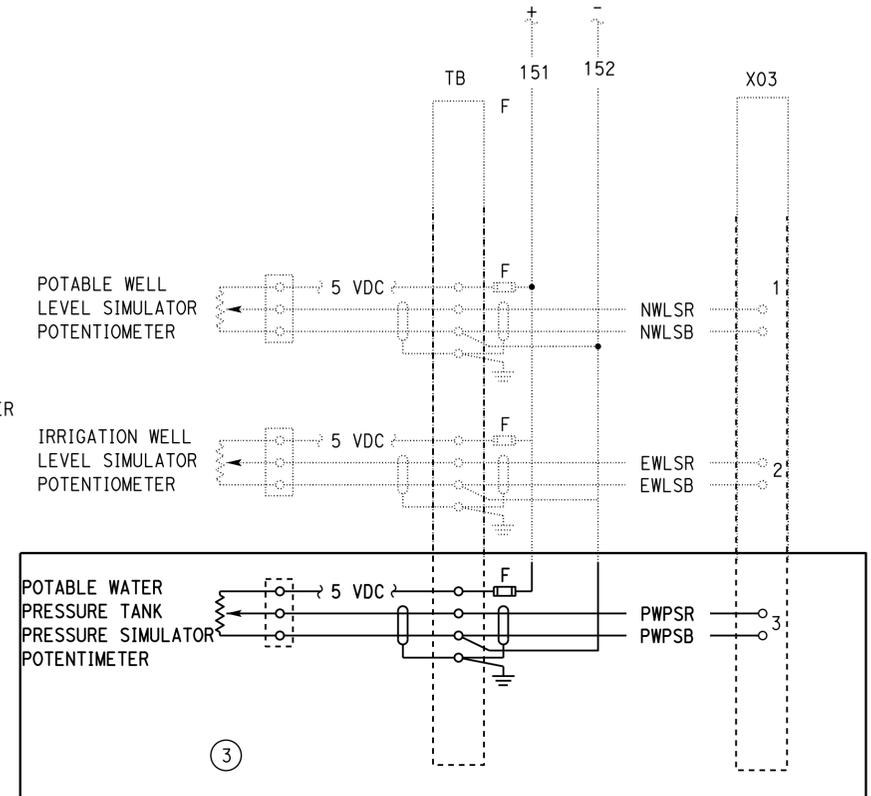
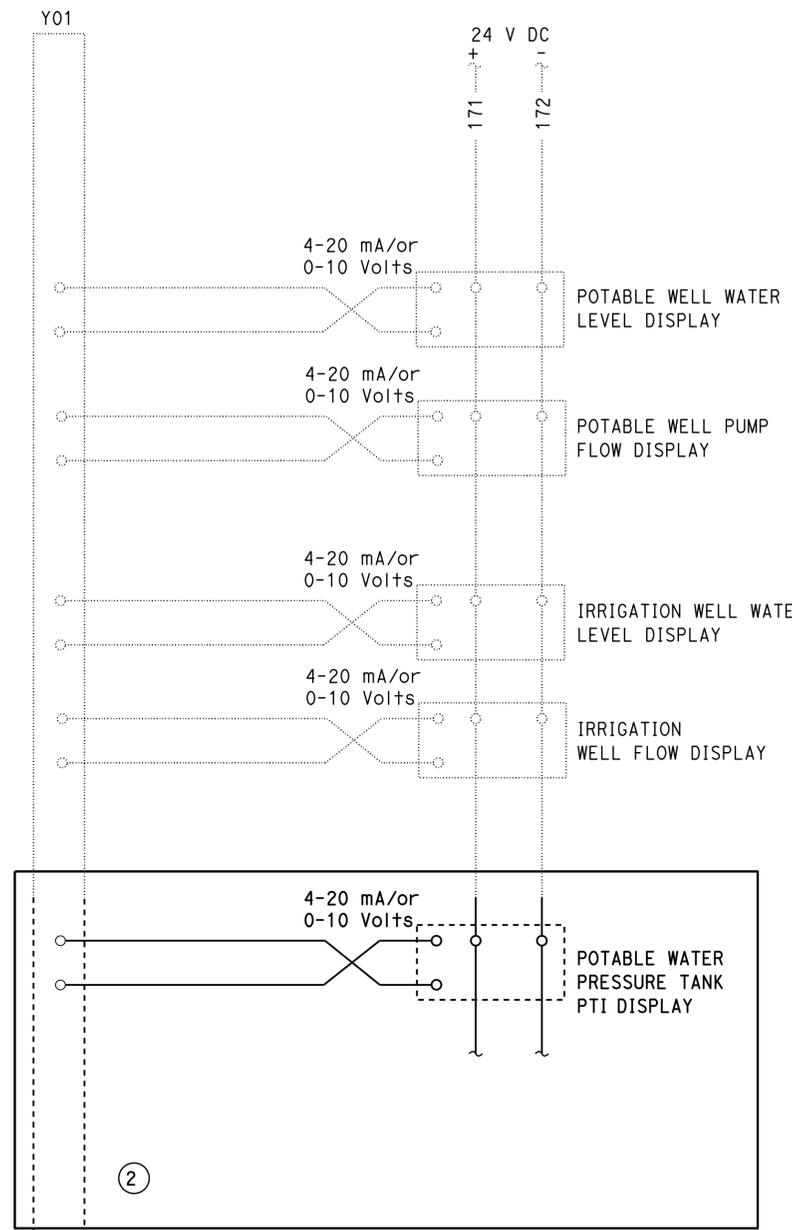
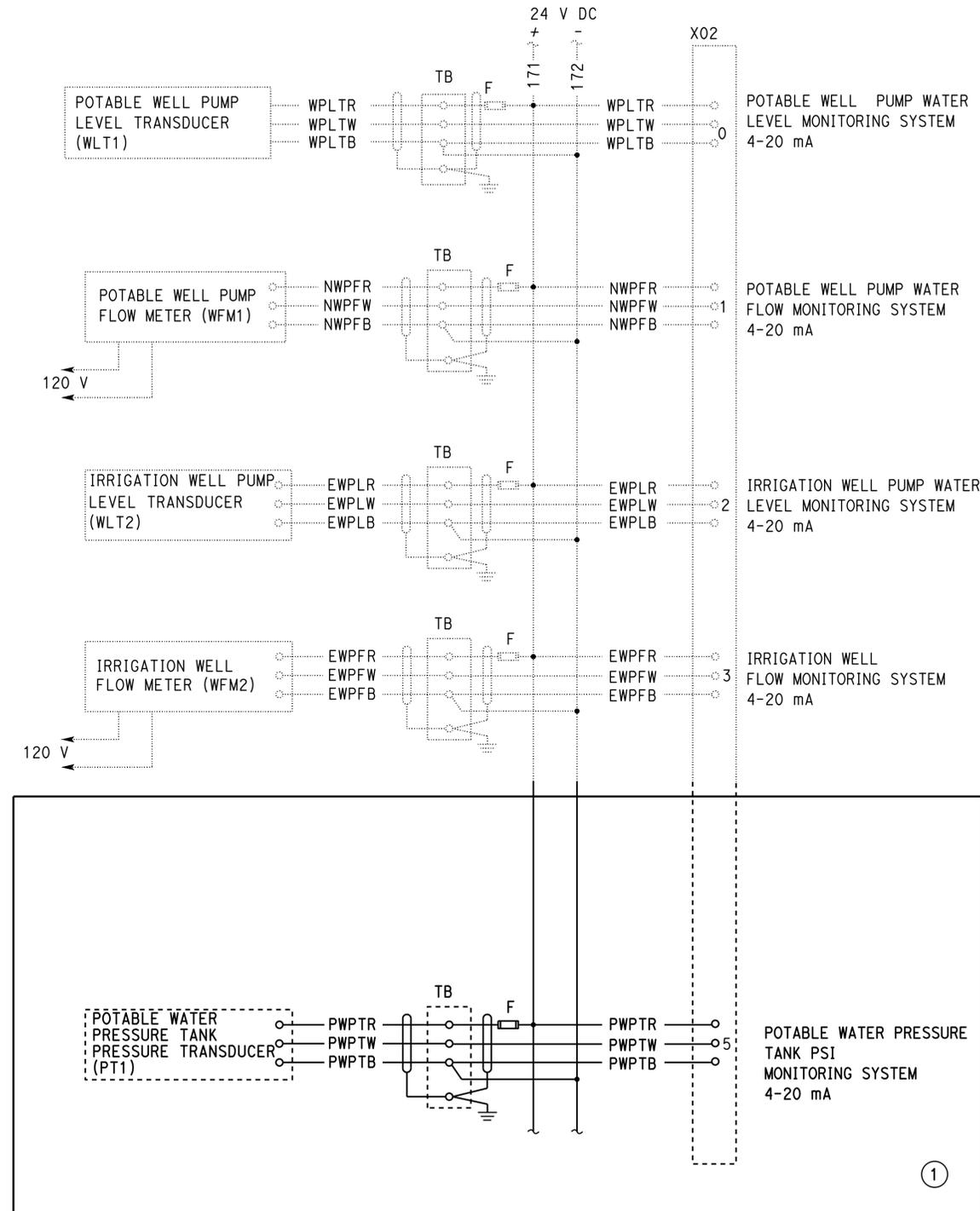


MODIFIED POTABLE WELL CONTROL SCHEMATIC

DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS PARTIAL EXISTING POTABLE WELL PUMP CONTROL SCHEMATIC DIAGRAM 1	SHEET OF EE1-2 12 45
			POST MILE 49.6		
DETAILS BY Dali Zhou/Yawen Sun CHECKED Beatrice Bindu	UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		
QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	6-2-14 6-14-14 12-2-14 2-18-15 6-19-15			
TAEWW Imperial - CCSC Rev. 02/13			P:\dist_02\0212000033_honey_lake_srra_ww_upgrade\expedit\ee1_02.dgn		

24-JUN-2015 16:50

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 Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000



- GENERAL NOTES:
- New items are shown in bold.
 - Existing PLC is a Unitronics Vision 1210 with integrated HMI. Use the existing PLC manufacturer software to modify the PLC programming and HMI screens to integrate the new Analog Input and Analog Output Modules. Upload the new program to the existing PLC and test the complete operation of the existing PLC once the modifications are made to the program.
- NOTES:
- Terminate the sensor cable to the existing PLC Analog Input Module and reprogram the existing PLC program to accept the pressure reading from the pressure transducer as a 4-20mA current signal. Modify the HMI screen graphics at the existing potable well pump control cabinet to indicate this pressure reading.
 - Provide a 9-32 V DC powered, LCD display with minimum of 2 lines display and capable of displaying pressure readings in digital format. Install the LCD display at the existing potable well pump control cabinet interior door. Wire the LCD display to the existing PLC Analog Input.
 - Provide and install a heavy duty, rotary, panel mounted type level simulator potentiometers. Wire the potentiometers to the existing PLC Analog input module and install at the existing potable well pump control cabinet interior door.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	75	106

Registered Electrical Engineer
 6-19-15
 DATE
 6-22-15
 PLANS APPROVAL DATE
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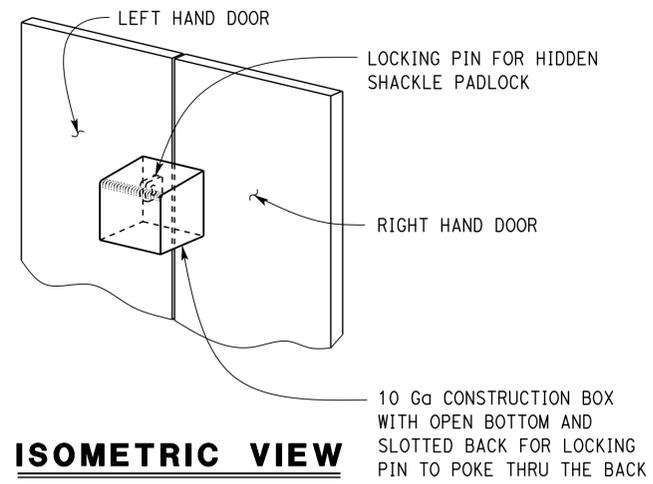
REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Gill
 No. E 18551
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GENERAL NOTES:

- A. For conduit termination at urine tank see sheet SS-4.
- B. For conduit termination at sewage lift station, see sheet SS-5.
- C. Size weatherproof enclosure to enclose all the electrical equipment as shown.

NOTES:

- ① 1" PVC coated RSC, Motor power and control cables to urine tank.
- ② 1" PVC coated RSC, 1 Fiber optic float switch cable (UFS1) to urine Tank.
- ③ 3/4" PVC coated RSC, Sensor cable to level transducer (ULT) at urine Tank.
- ④ 1" PVC coated RSC, 2 Fiber optic float switch cables (LFS1 and LFS2).
- ⑤ 3/4" PVC coated RSC, Sensor cable to level transducer (LLT).
- ⑥ 1" PVC coated RSC, with two motor power and control cables to sewage pumps.

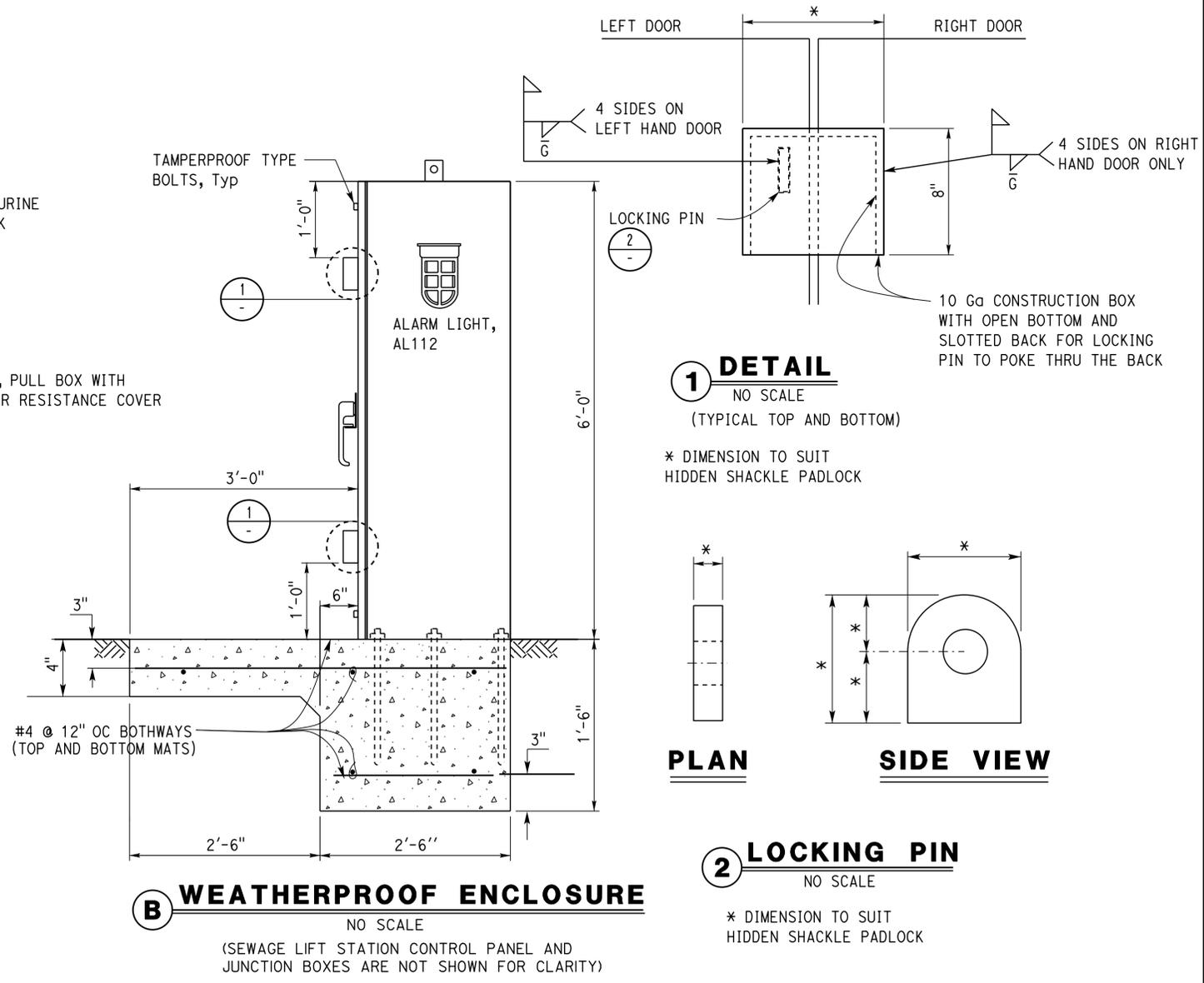
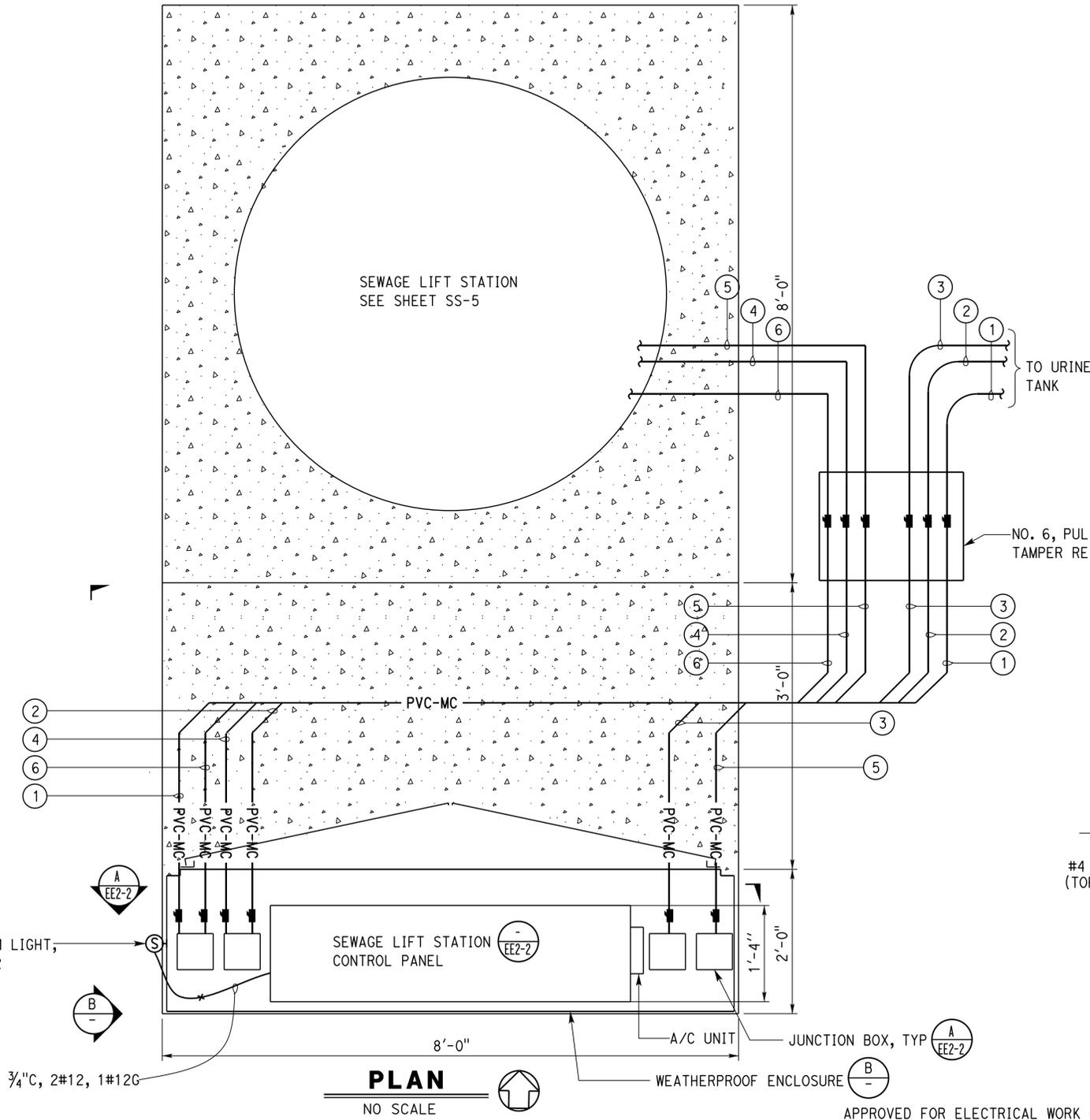


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Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15

CSFM FILE#01-18-11-0003-000



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DESIGN	BY	Beatrice Bindu	CHECKED	Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003 POST MILE 49.6	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS SEWAGE LIFT STATION PUMPS CONTROL STATION PLAN	SHEET EE2-1
	DETAILS	BY	Yawen Sun	CHECKED					
QUANTITIES	BY	Beatrice Bindu	CHECKED	Jipinderpal Kaur	UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF 14 45

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 REVISION DATES (PRELIMINARY STAGE ONLY): 4-28-14, 5-9-14, 9-8-14, 12-2-14, 2-18-15, 6-19-15
 TAEWW Imperial - CCSC Rev. 02/13
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	LAs, Sac	395, 5	49.6, 23.3	77	106

Approved by: *Jaswinder Gill* 6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE
 6-22-15
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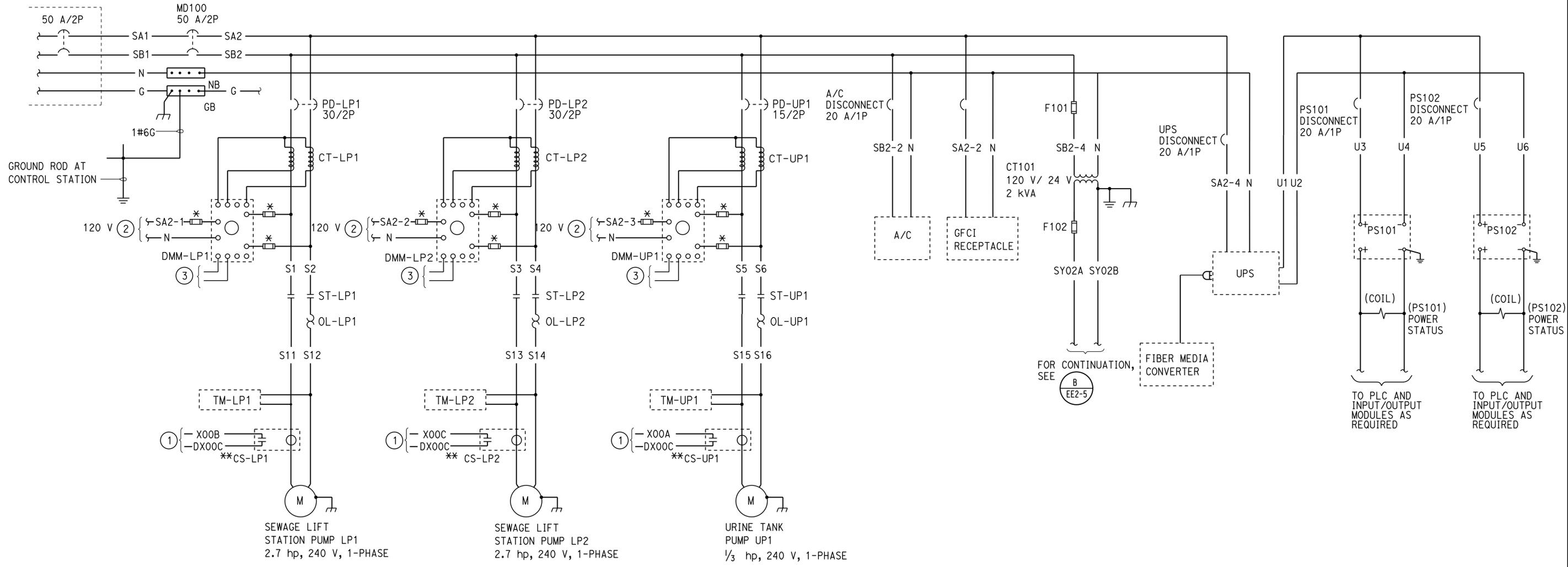
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- Notes:
- For continuation, see PLC Digital Input Modules, on sheet EE2-4.
 - Provide power distribution blocks on load side of main disconnect to provide power to DMM'S.
 - To PLC communication module.

* Size as required.
 ** For connection to PLC see, PLC Digital Input Module on sheet EE2-4.

PARTIAL PANEL P
 INSIDE WASTEWATER TREATMENT
 ENCLOSURE



A SEWAGE PUMP CONTROL STATION POWER SCHEMATIC

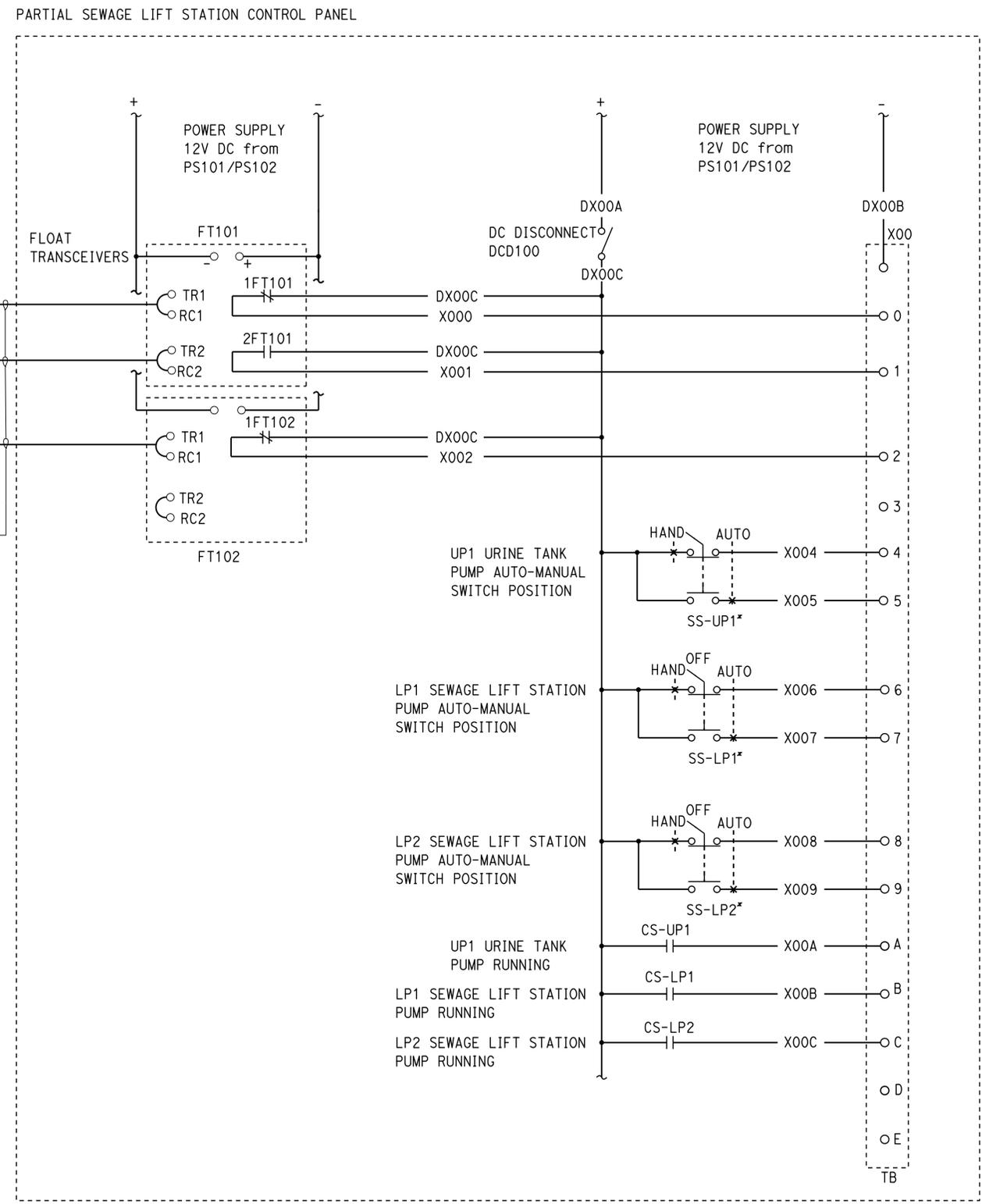
DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur DETAILS BY Dali Zhou CHECKED Beatrice Bindu QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003 POST MILE 49.6	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS SEWAGE LIFT STATION PUMPS CONTROL POWER DISTRIBUTION	SHEET 16 OF 45 EE2-3	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 10-13-13 5-9-14 9-8-14 12-2-14 2-18-15 6-19-15	SHEET 16 OF 45	24-JUN-2015 16:50
	TAEWW Imperial - CCSC Rev. 02/13	P:\d1st_02\0212000033_honey_lake_srra_ww_upgrade\expd1fe\ee2_03.dgn				

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Lgs, Sac	395, 5	49.6, 23.3	78	106

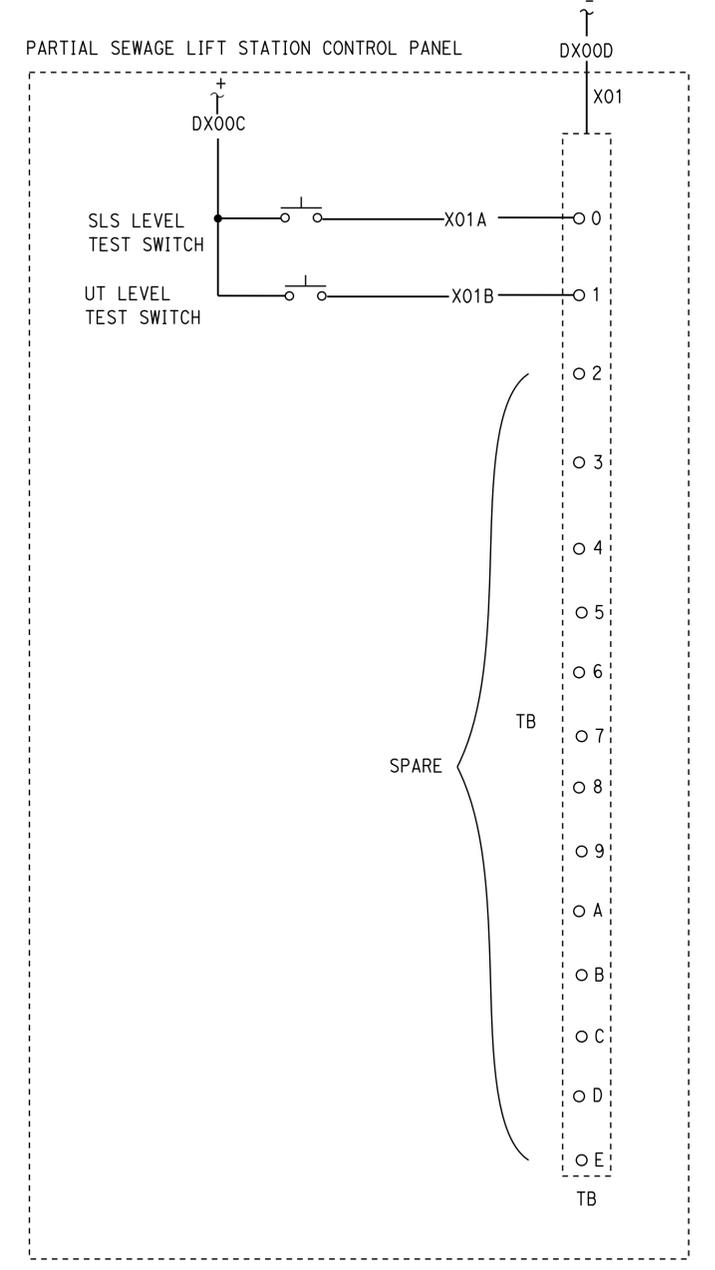
Approved by: *Jaswinder Gill* 6-19-15
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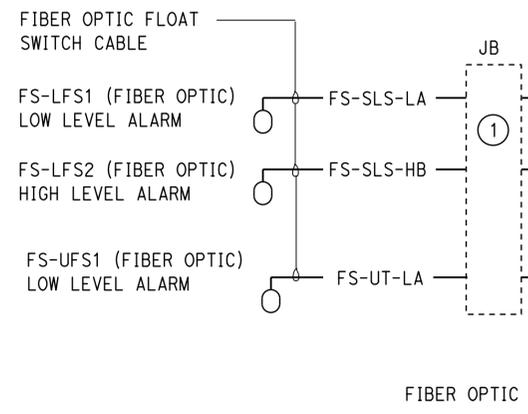
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A PLC DIGITAL INPUT
MODULE 1



B PLC DIGITAL INPUT
MODULE 2



NOTE:

① Splice the fiber optic float switch cables inside the junction box as recommended by the manufacturer of the fiber optic floats.

* For connection to motor starters, See

DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003 POST MILE 49.6	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS SEWAGE LIFT STATION CONTROL PANEL SCHEMATIC-1	SHEET OF EE2-4 17 45
DETAILS BY Yawen Sun CHECKED Beatrice Bindu QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	TAEWW Imperial - CCSC Rev. 02/13	P:\dist_02\0212000033_honey_lake_srra_ww_upgrade\expedite\ee2_04.dgn

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	LAs, Sac	395, 5	49.6, 23.3	79	106

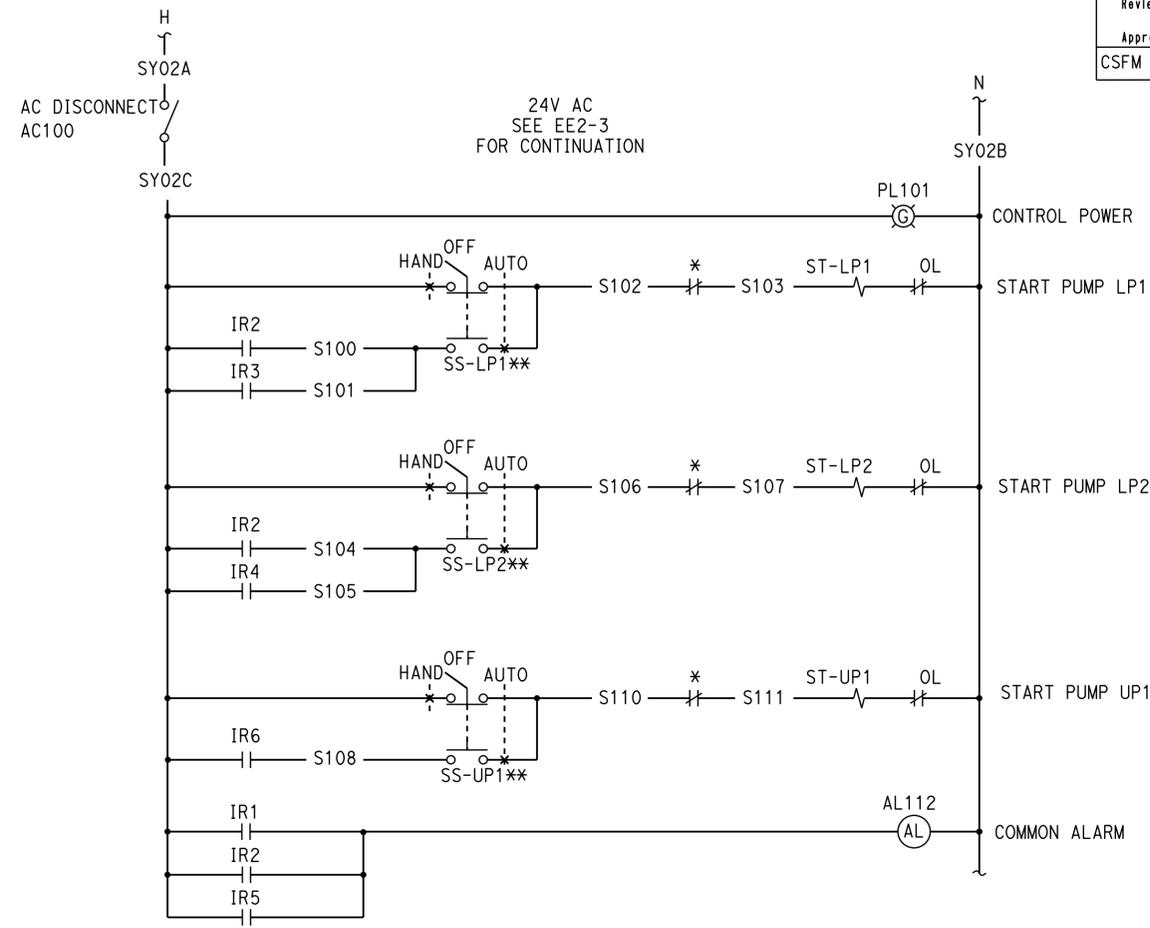
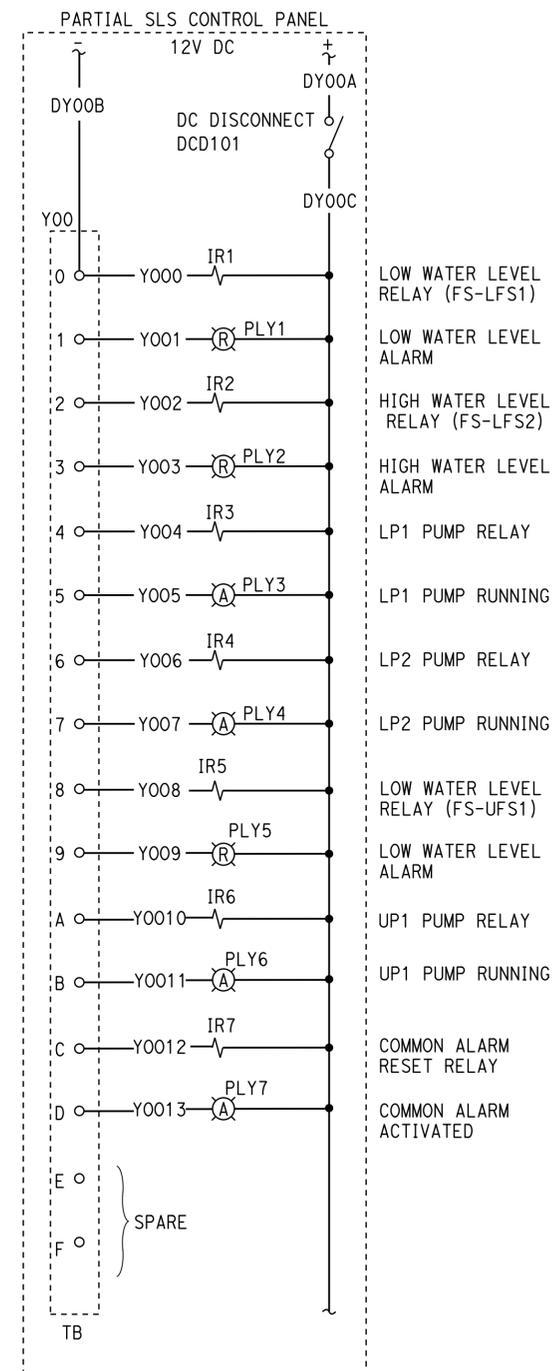
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Reviewed by: *[Signature]*
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(B) 24V AC CONTROL SCHEMATIC

* Motor integral thermal protector.

** For connection to PLC digital module, See **(A)**.

(A) PLC DIGITAL OUTPUT MODULE 1

DESIGN	BY Beatrice Bindu	CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS SEWAGE LIFT STATION CONTROL PANEL SCHEMATIC-2	SHEET	
DETAILS	BY Yawen Sun	CHECKED Beatrice Bindu			07R0003		49.6	OF
QUANTITIES	BY Beatrice Bindu	CHECKED Jipinderpal Kaur			POST MILE			18
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 9-13 2-24-14 5-9-14 9-8-14 12-2-14 2-18-15 6-19-15	45	

TAEWW Imperial - CCSC Rev. 02/13

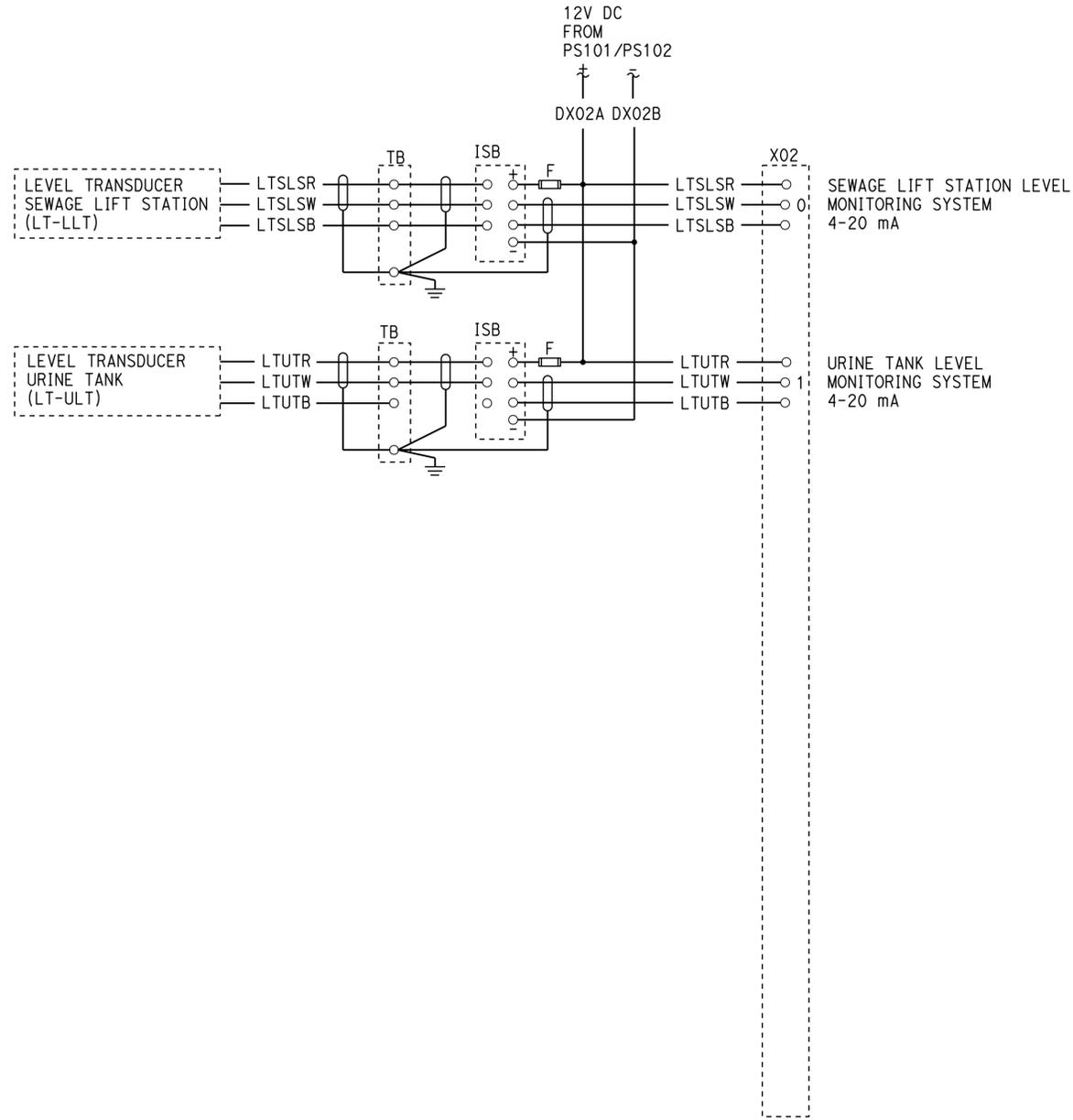
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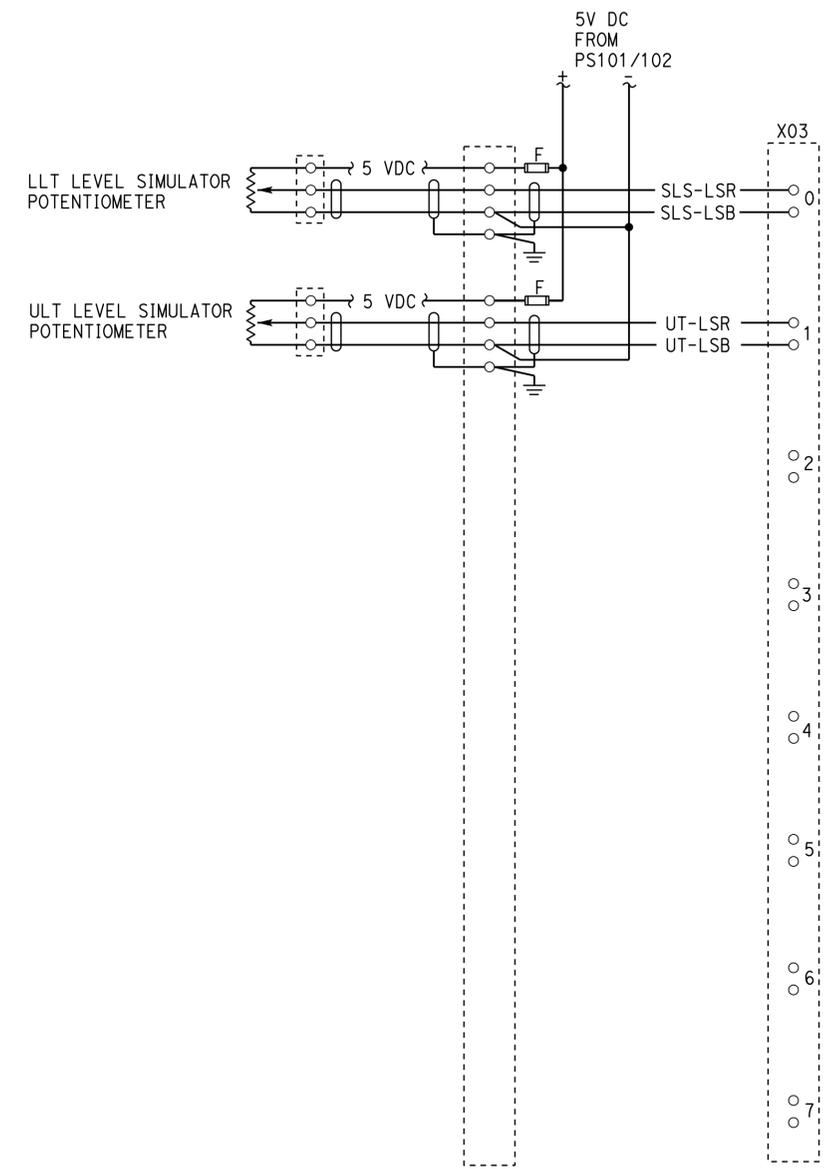
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	LAs, Sac	395, 5	49.6, 23.3	80	106

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A PLC ANALOG INPUT MODULE 1



B PLC ANALOG INPUT MODULE 2

DESIGN	BY	Beatrice Bindu	CHECKED	Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS SEWAGE LIFT STATION CONTROL PANEL SCHEMATIC-3	SHEET	OF	
	DETAILS	BY	Dali Zhou	CHECKED			Beatrice Bindu	POST MILE		49.6	19	45
	QUANTITIES	BY	Beatrice Bindu	CHECKED			Jipinderpal Kaur	REVISION DATES (PRELIMINARY STAGE ONLY) 9-13-13 2-21-14 5-21-14 9-24-14 12-2-14 2-18-15 6-19-15				

UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

TAEWW Imperial - CCSC Rev. 02/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	81	106

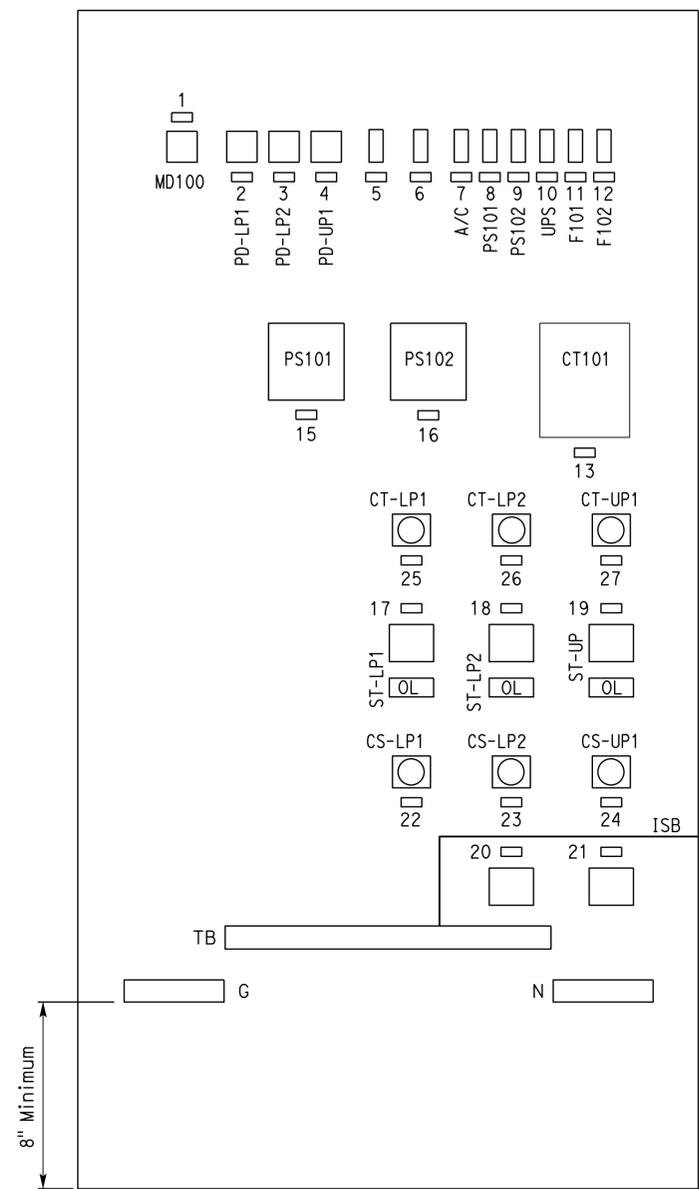
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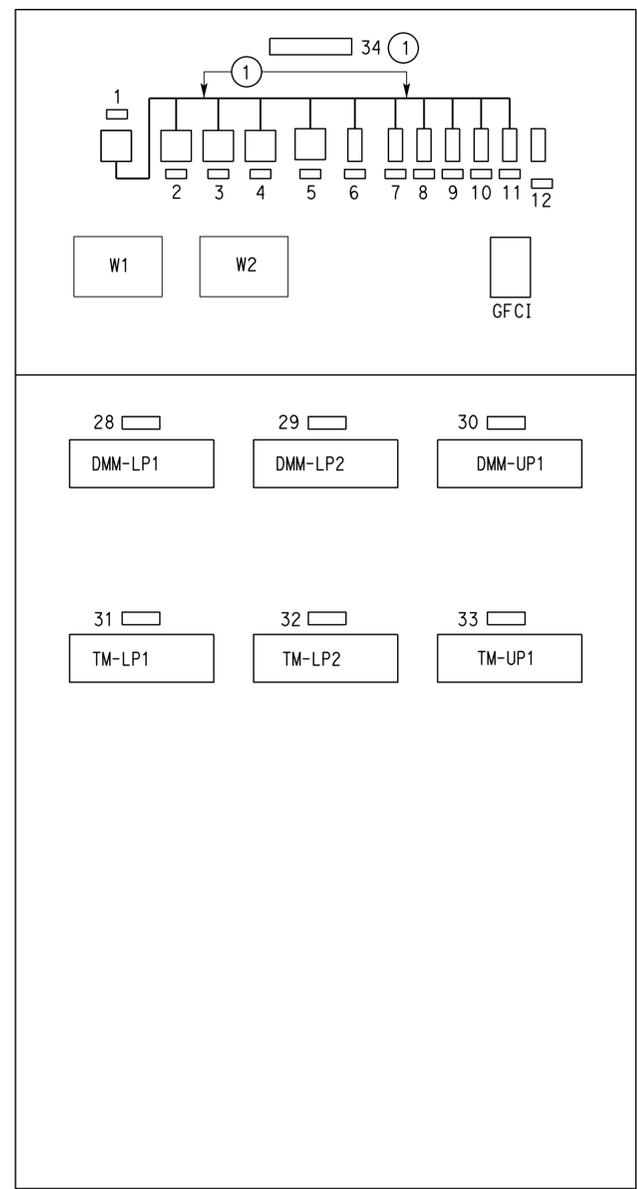
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BACK MOUNTING PANEL



INTERIOR HINGED DOOR

PANEL LAYOUT (RIGHT SECTION)

NO SCALE
 (EXTERIOR WEATHERPROOF ENCLOSURE NOT SHOWN, INTERIOR DOOR CLOSED)

NAMEPLATE SCHEDULE			
TAG No.	TYPE	INSCRIPTION	LETTER HEIGHT (Inch)
1	PLATE	MAIN DISCONNECT	1/4
2	PLATE	SEWAGE PUMP 1 DISCONNECT	1/4
3	PLATE	SEWAGE PUMP 2 DISCONNECT	1/4
4	PLATE	URINE TANK PUMP DISCONNECT	1/4
5	PLATE	SPARE	1/4
6	PLATE	SPARE	1/4
7	PLATE	A/C DISCONNECT	1/4
8	PLATE	PS101 DISCONNECT	1/4
9	PLATE	PS102 DISCONNECT	1/4
10	PLATE	UPS DISCONNECT	1/4
11	PLATE	F101	1/4
12	PLATE	F102	1/4
13	PLATE	CT101	1/4
14		NOT USED	
15	PLATE	PS101	1/4
16	PLATE	PS102	1/4
17	PLATE	SEWAGE PUMP 1 STARTER	1/4
18	PLATE	SEWAGE PUMP 2 STARTER	1/4
19	PLATE	URINE TANK PUMP STARTER	1/4
20	PLATE	FT101	1/4
21	PLATE	FT102	1/4
22	PLATE	CS-LP1	1/4
23	PLATE	CS-LP2	1/4
24	PLATE	CS-UP1	1/4
25	PLATE	CT-LP1	1/4
26	PLATE	CT-LP2	1/4
27	PLATE	CT-UP1	1/4
28	PLATE	DMM-LP1	1/4
29	PLATE	DMM-LP2	1/4
30	PLATE	DMM-UP1	1/4
31	PLATE	TM-LP1	1/4
32	PLATE	TM-LP2	1/4
33	PLATE	TM-UP1	1/4
34	PLATE	SEWAGE PUMPS CONTROL PANEL	1/2

- GENERAL NOTES:
- A. Size cabinet as required to fit all devices.
 - B. For control panel exterior elevation and detail, see sheet EE2-2
 - C. For Schematic Diagram, see sheets EE2-3 thru EE2-6.

NOTE:
 ① Mount on exterior weatherproof enclosure door.

WARNING PLATE SCHEDULE		
TAG No.	INSCRIPTION	LETTER HEIGHT (Inch)
W1	WARNING! BEFORE SERVICING PANEL TURN "MAIN DISCONNECT" TO OFF POSITION TO DE-ENERGIZE THE ENTIRE PANEL	1/2
W2	CAUTION! PUMP DISCONNECT DOES NOT TURN OFF POWER TO CONTROL CIRCUIT	1/2

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DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur	DETAILS BY Yawen Sun CHECKED Beatrice Bindu	QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS SEWAGE LIFT STATION PUMPS CONTROL STATION DETAILS 2	SHEET OF EE2-7 20 45
					POST MILE 49.6		
TAEWW Imperial - CCSC Rev. 02/13				UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331		DISREGARD PRINTS BEARING EARLIER REVISION DATES	

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	82	106

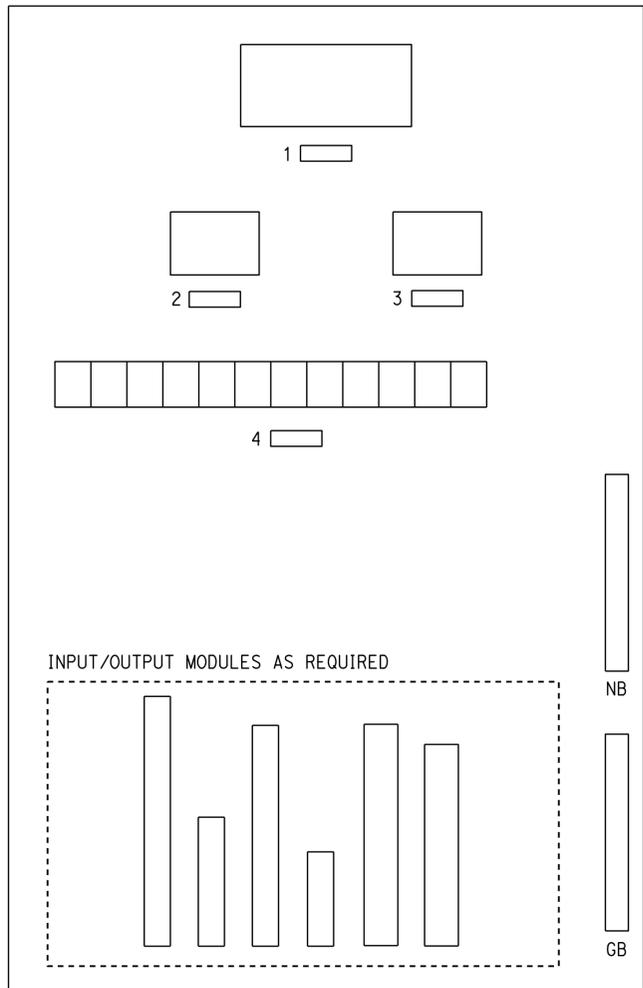
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 ANDREW MCSORELY
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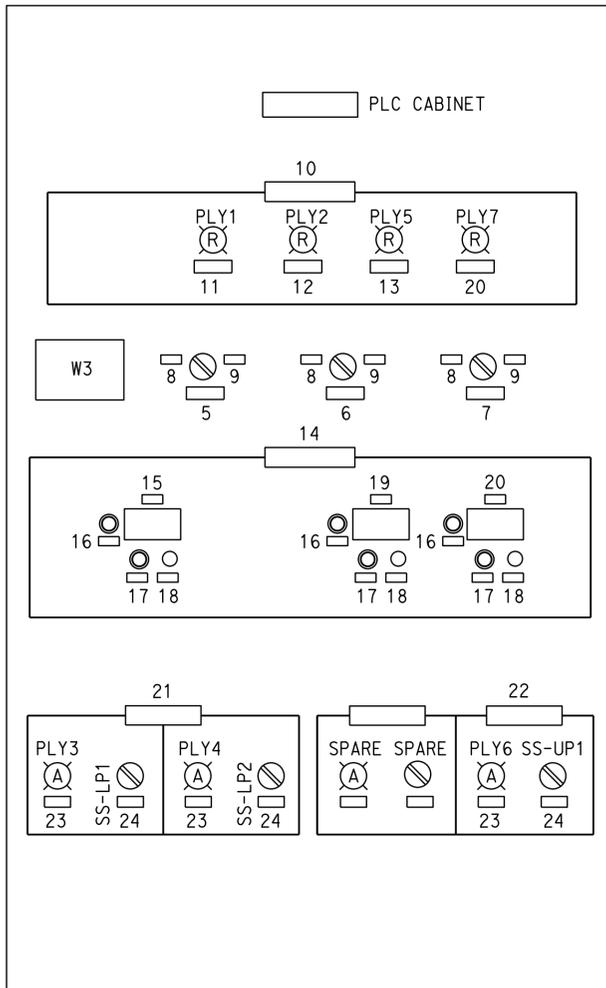
REGISTERED PROFESSIONAL ENGINEER
 No. E 18551
 Exp. 12-31-16
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Jaswinder S Gill
 REGISTERED ELECTRICAL ENGINEER DATE 6-19-15
 6-22-15
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BACK MOUNTING PANEL



INTERIOR HINGED DOOR

NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT (inch)
1	PLC	1/4
2	UPS	"
3	FIBER MEDIA CONVERETR	"
4	INTERFACE RELAY IR1-----IRN	"
5	DC DISCONNECT DCD100	"
6	DC DISCONNECT DCD101	"
7	AC POWER DISCONNECT (AC100)	"
8	ON	"
9	OFF	"
10	ALARMS	"
11	LOW SEWAGE LEVEL	"
12	HIGH SEWAGE LEVEL	"
13	LOW URINE LEVEL	"
14	DISPLAY UNITS	"
15	SEWAGE LEVEL AT LIFT STATION	"
16	SELECTOR	"
17	TEST SWITCH	"
18	SIMULATOR	"
19	URINE LEVEL	"
20	COMMON ALARM	"
21	SEWAGE PUMPS	"
22	URINE TANK PUMP	"
23	PUMP ON	"
24	HAND-OFF-AUTO	"

WARNING PLATE SCHEDULE		
TAG No.	INSCRIPTION	LETTER HEIGHT (inch)
W3	WARNING! BEFORE SERVICING PANEL TURN "MAIN DISCONNECT", "DC DISCONNECTS" AND "AC DISCONNECT" TO OFF POSITION TO DE-ENERGIZE THE PANEL	1/2

PANEL LAYOUT (LEFT SECTION)

NO SCALE
 (EXTERIOR WEATHERPROOF ENCLOSURE
 NOT SHOWN. INTERIOR DOOR CLOSED)

- GENERAL NOTES:
- A. Size cabinet as required to fit all devices.
 - B. For control panel exterior elevation and details, see sheet EE2-2
 - C. For Schematic Diagram, see sheets EE2-3 thru EE2-6.
 - D. Layout of equipments shown here are diagrammatic only and are intended to establish basic location of the devices and equipments. Size the cabinets to fit all installed components.

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DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur	DETAILS BY Yawen Sun CHECKED Beatrice Bindu	QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS SEWAGE LIFT STATION PUMPS CONTROL STATION DETAILS 3	SHEET EE2-8
					POST MILE 49.6		REVISION DATES (PRELIMINARY STAGE ONLY) 10-13 5-14 9-14 12-14 2-15 6-15

UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

TAEWW Imperial - CCSC Rev. 02/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Lgs, Sac	395, 5	49.6, 23.3	83	106

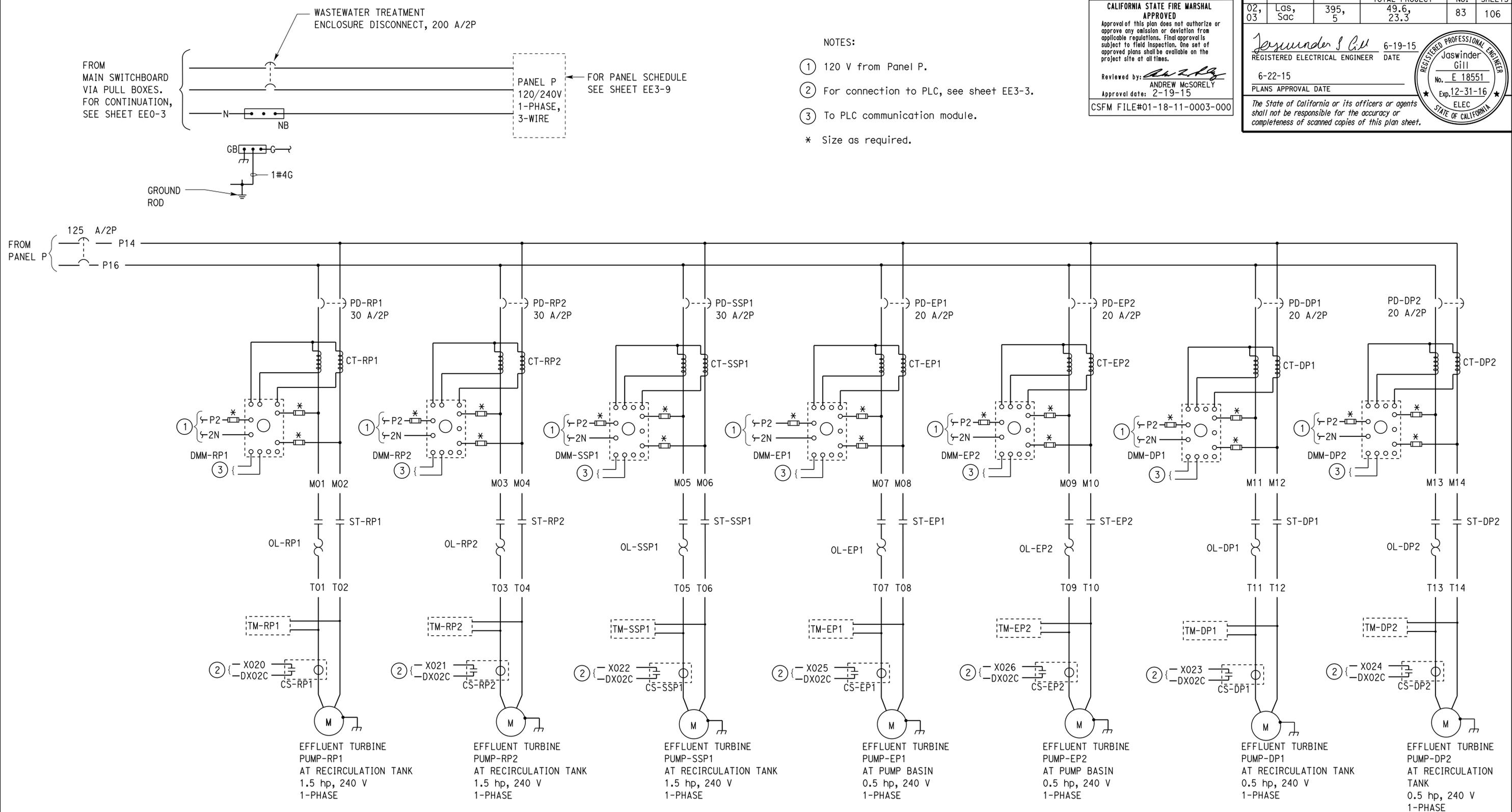
<i>Jaswinder Gill</i> REGISTERED ELECTRICAL ENGINEER DATE 6-19-15		
6-22-15 PLANS APPROVAL DATE		
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CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15

CSFM FILE#01-18-11-0003-000

- NOTES:
- 120 V from Panel P.
 - For connection to PLC, see sheet EE3-3.
 - To PLC communication module.
- * Size as required.

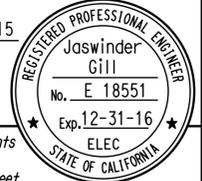


**WASTEWATER TREATMENT
 CONTROL CABINET POWER SCHEMATIC**

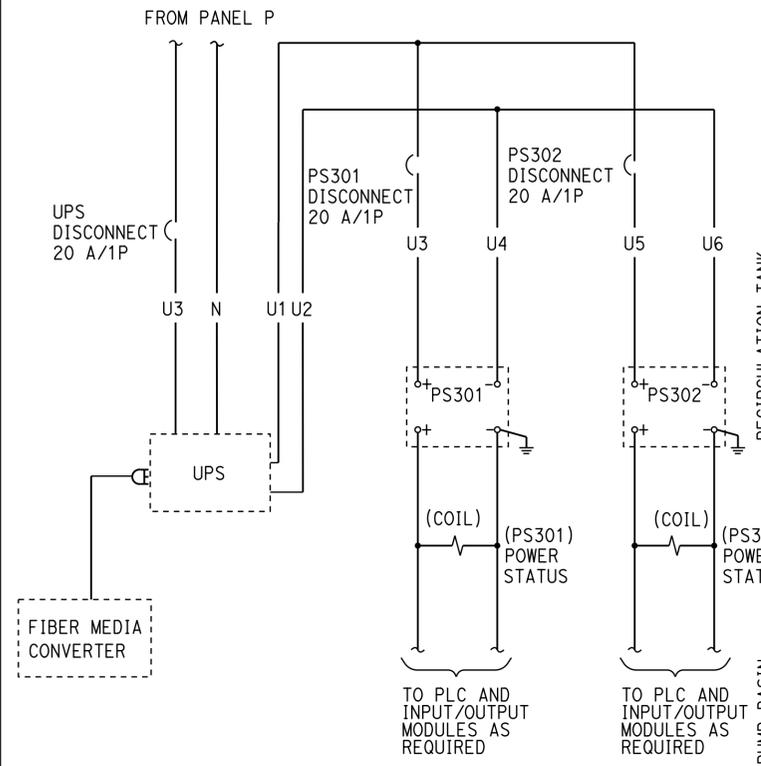
DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur DETAILS BY Dali Zhou CHECKED Beatrice Bindu QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		BRIDGE No. 07R0003 POST MILE 49.6	HONEY LAKE SRR WASTEWATER SYSTEM IMPROVEMENTS		SHEET EE3-1	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 9-13-13 2-27-14 5-21-14 9-24-14 12-21-14 2-18-15 6-19-15		SHEET OF 22 45
	TAEWW Imperial - CCSC Rev. 02/13 P:\dist_02\0212000033_honey_lake_srra_ww_upgrade\expd\fe\ee3_01.dgn								

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	84	106

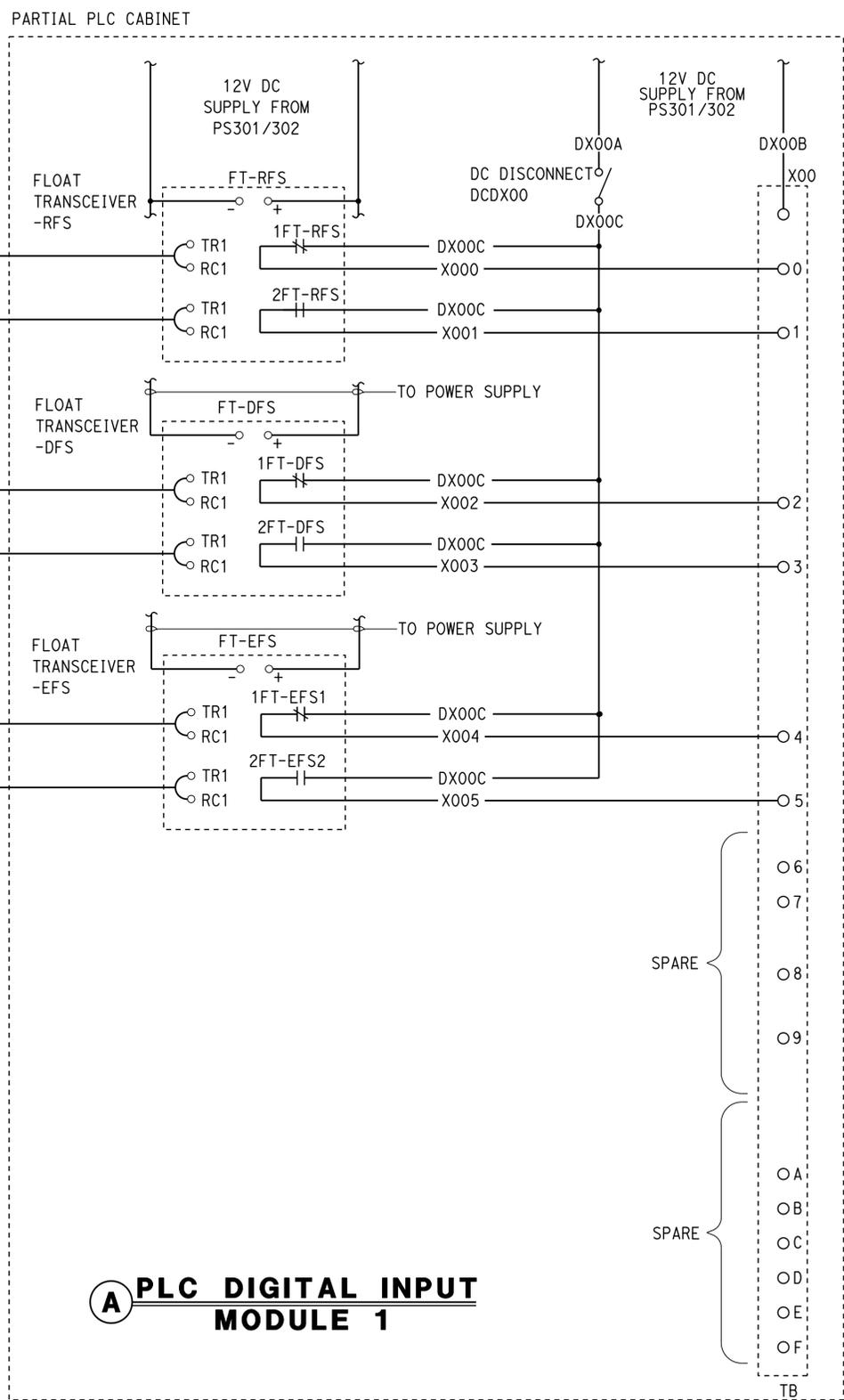
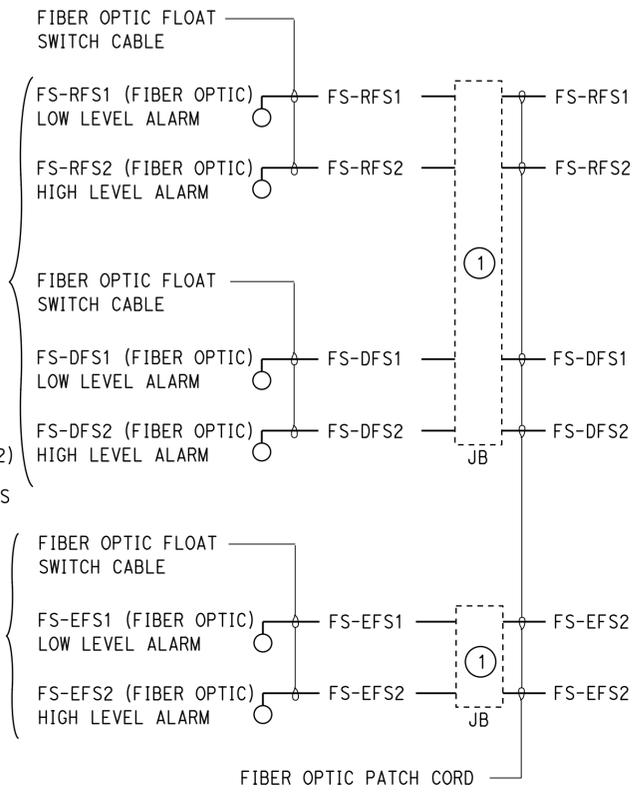
6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE
 6-22-15
 PLANS APPROVAL DATE
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 Reviewed by: *[Signature]*
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000



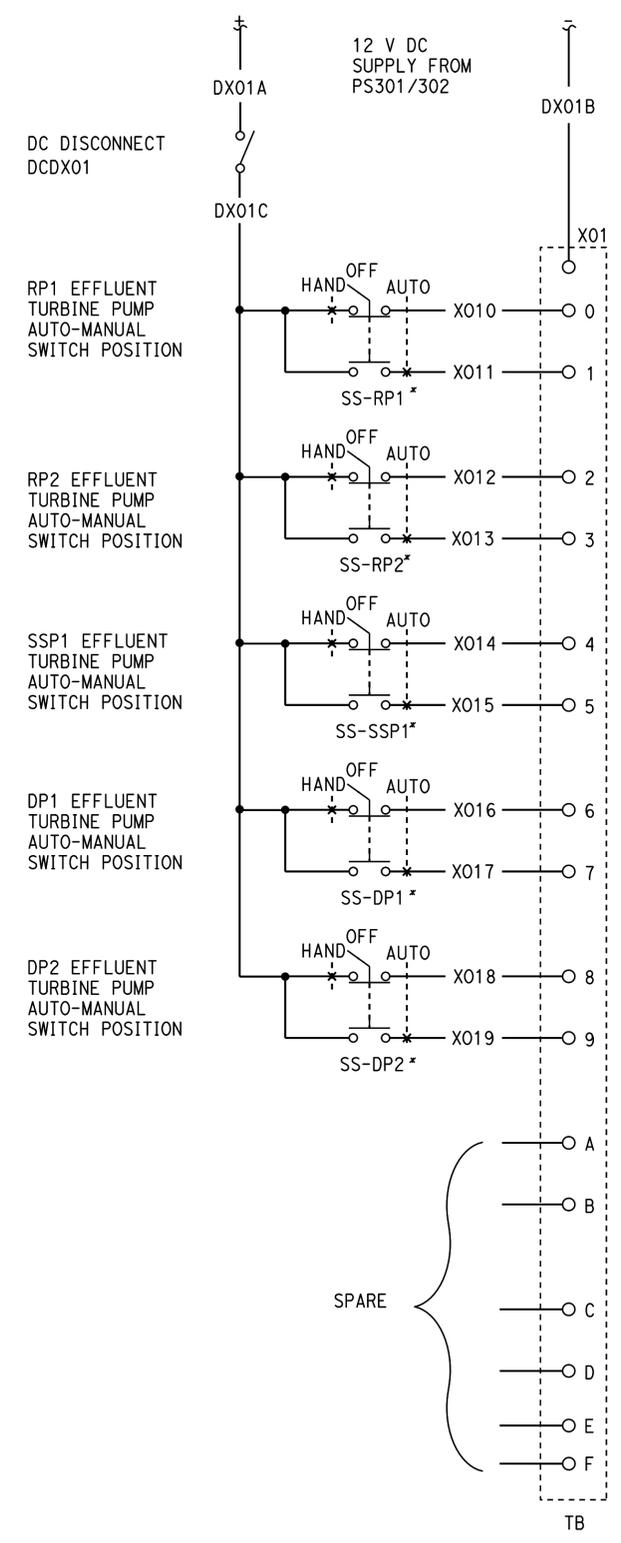
B PLC POWER



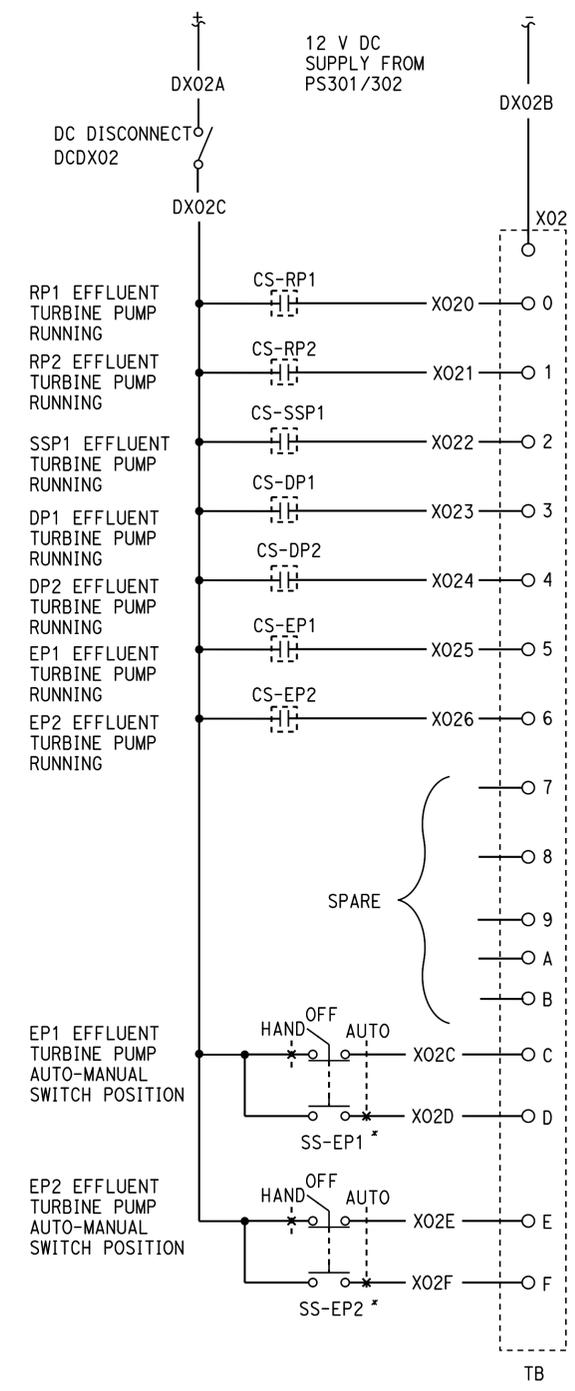
A PLC DIGITAL INPUT MODULE 1

NOTE:
 ① Splice fiber optic float switch cable to fiber optic patch cord using manufacturer approved connectors.

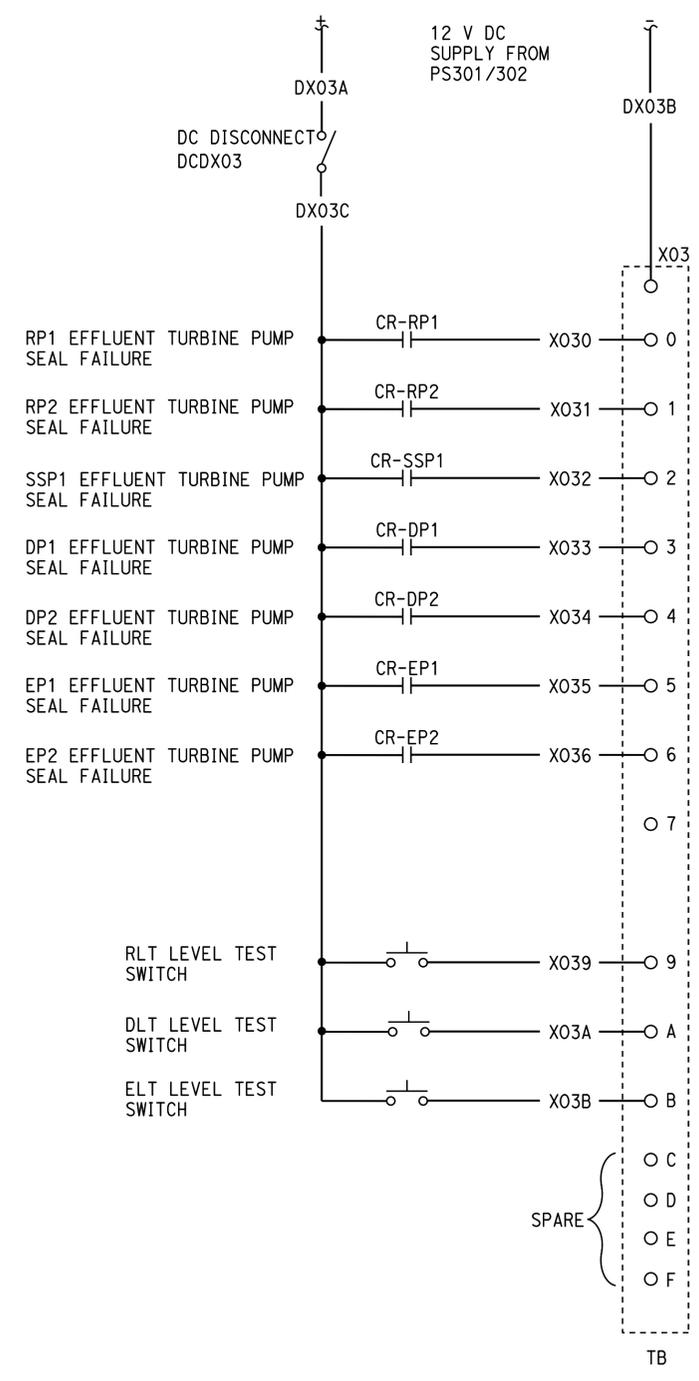
DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS	SHEET EE3-2
			POST MILE 49.6		
DETAILS BY Dali Zhou CHECKED Beatrice Bindu	UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF 23 45
QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		10-13 11-14 1-14 2-2-14 2-18-15 6-19-15		
TAEWW Imperial - CCSC Rev. 02/13		DISREGARD PRINTS BEARING EARLIER REVISION DATES		P:\d1st_02\0212000033_honey_lake_srra_ww_upgrade\expedite\ee3_02.dgn	



A PLC DIGITAL INPUT MODULE 2



B PLC DIGITAL INPUT MODULE 3



C PLC DIGITAL INPUT MODULE 4

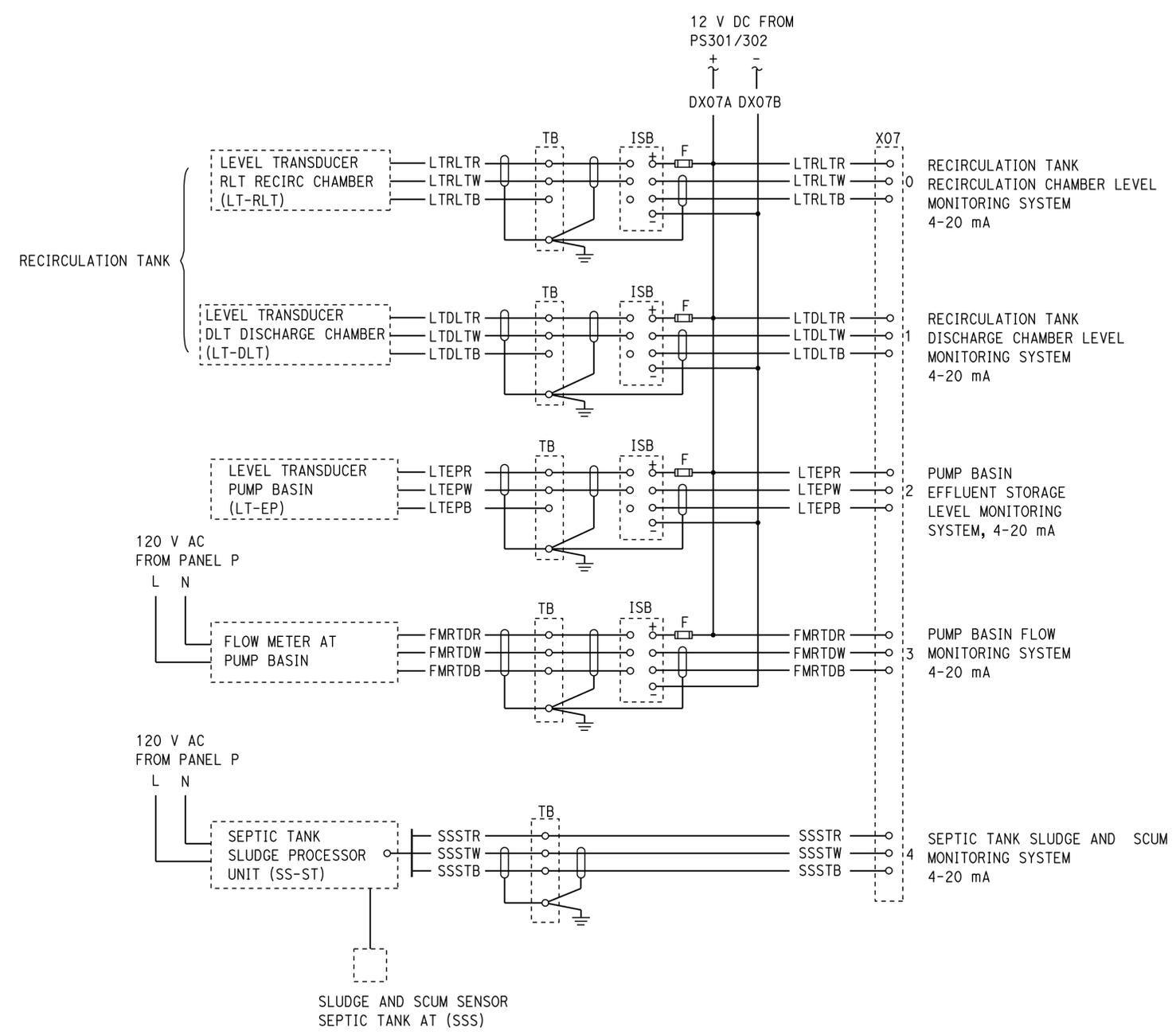
* For connections to motor starters, See **A** EE3-6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	86	106

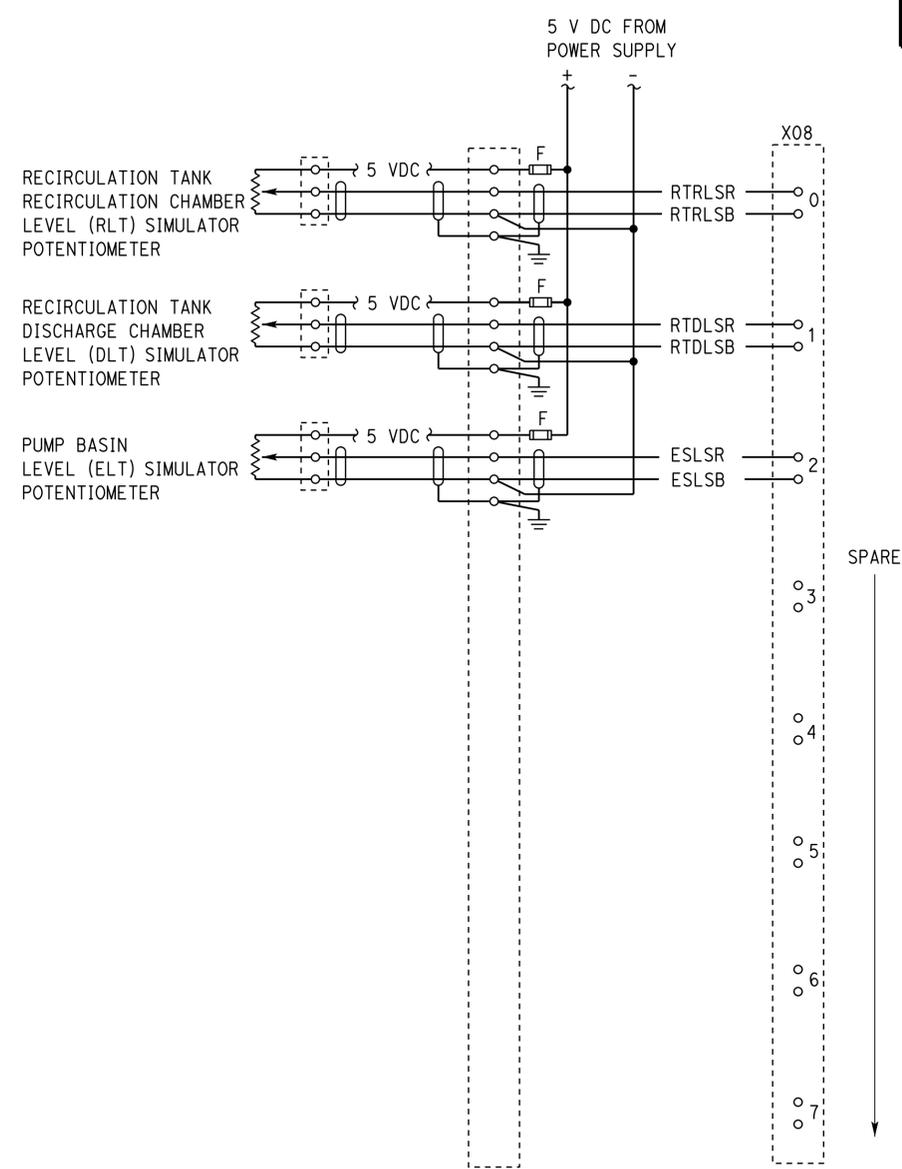
Jaswinder S Gill 6-19-15
REGISTERED ELECTRICAL ENGINEER DATE
6-22-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jaswinder Gill
No. E 18551
Exp. 12-31-16
ELEC
STATE OF CALIFORNIA

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A PLC ANALOG INPUT MODULE 1



B PLC ANALOG INPUT MODULE 2

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Reviewed by: *[Signature]*
ANDREW MCSORELY
Approval date: 2-19-15
CSFM FILE#01-18-11-0003-000

DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur	DETAILS BY Dali Zhou CHECKED Beatrice Bindu	QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS WASTEWATER TREATMENT ENCLOSURE PLC CABINET DETAILS 3	SHEET OF 25 45
					POST MILE 49.6		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		

TAEWW Imperial - CCSC Rev. 02/13

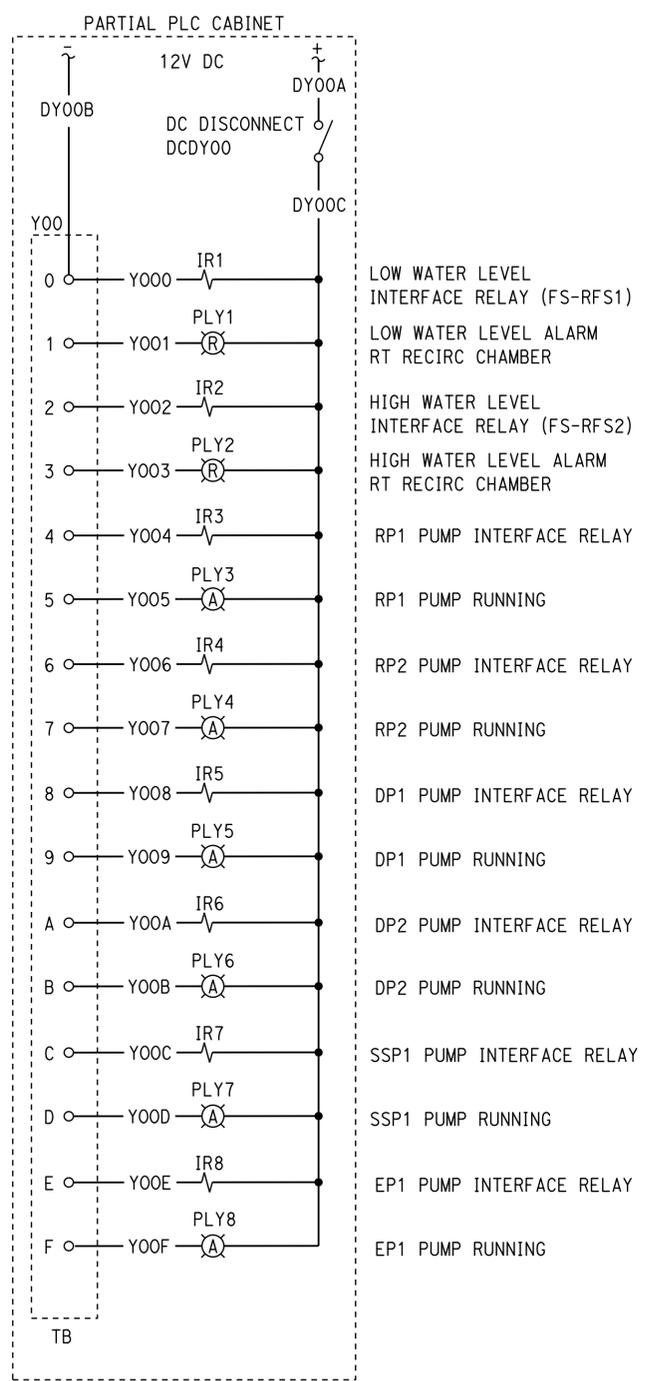
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 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

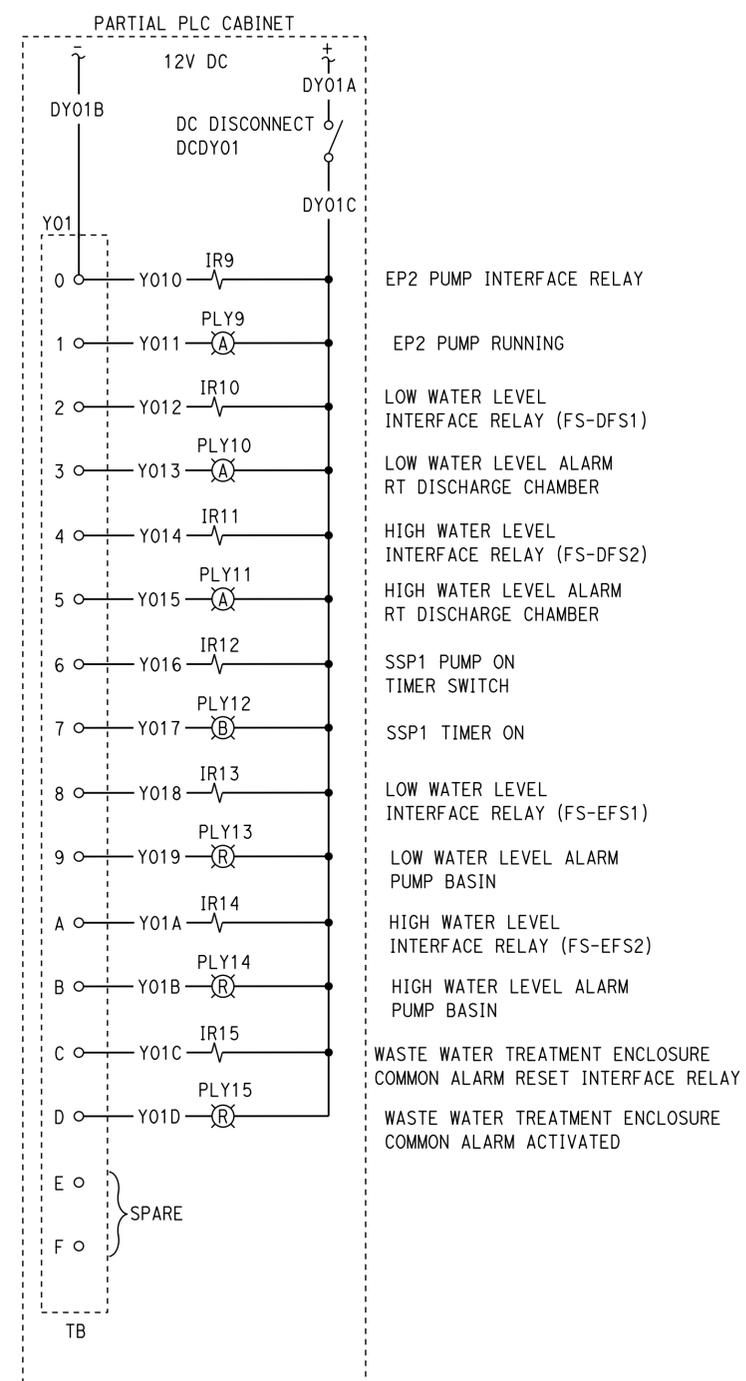
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	LAs, Sac	395, 5	49.6, 23.3	87	106

Jaswinder Gill
 REGISTERED ELECTRICAL ENGINEER DATE 6-19-15
 6-22-15
 PLANS APPROVAL DATE
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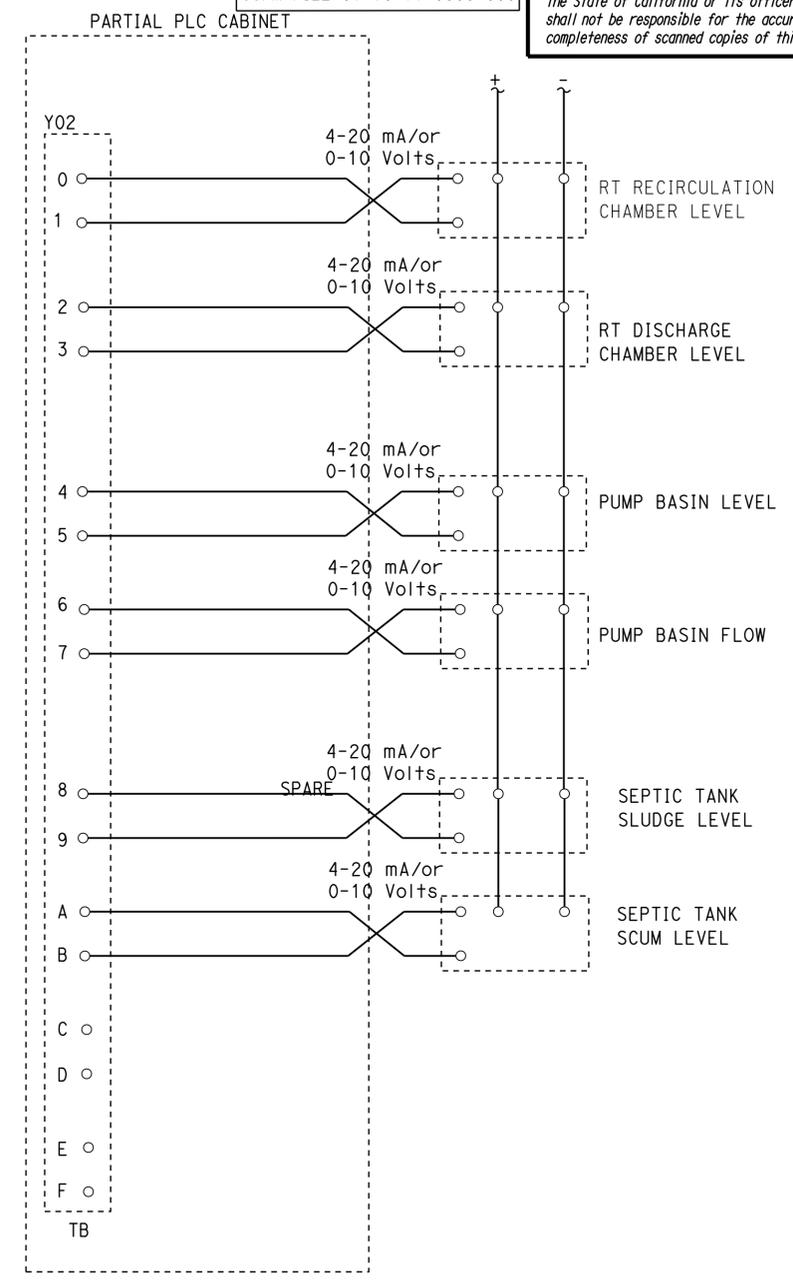
REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Gill
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA



A PLC DIGITAL OUTPUT MODULE 1



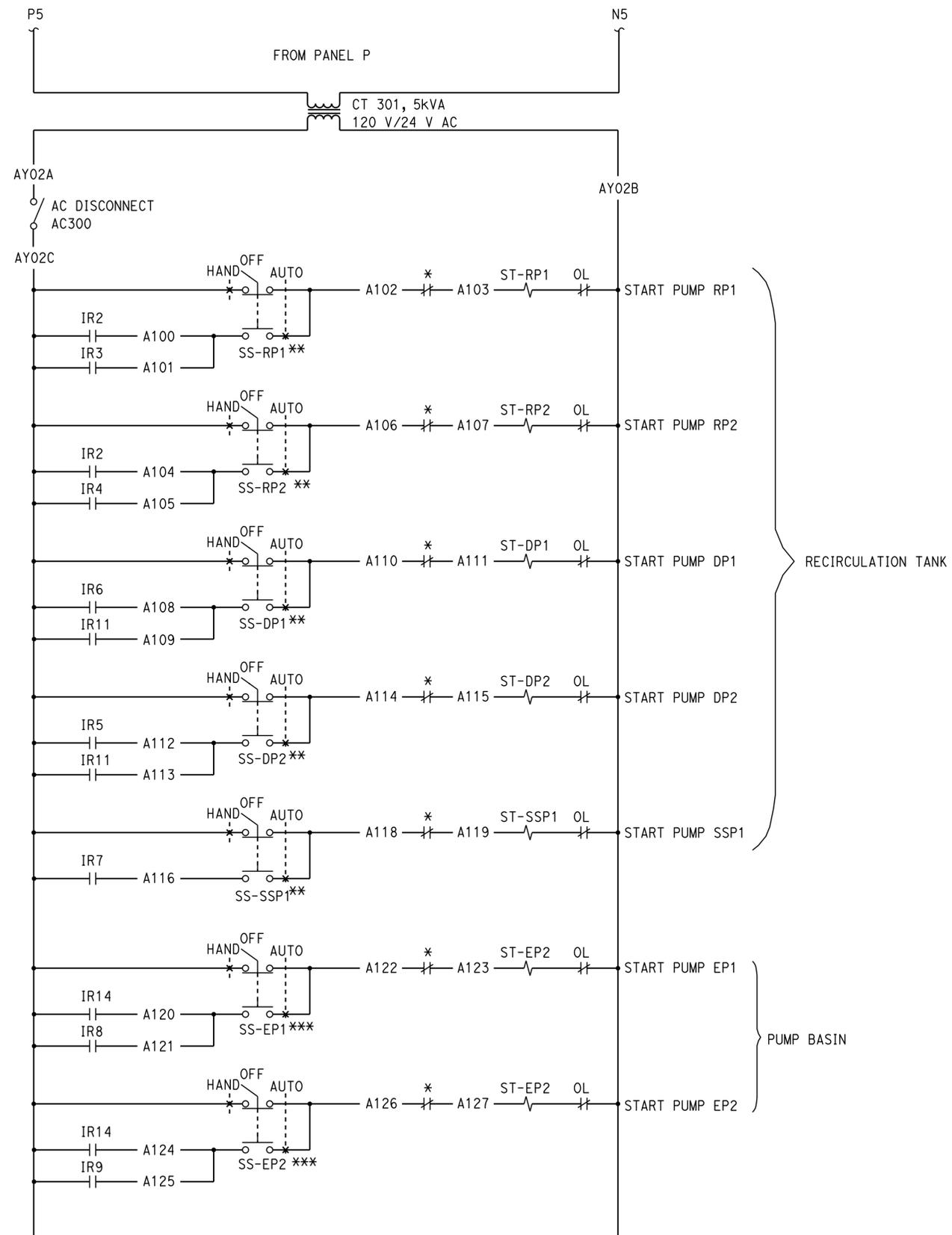
B PLC DIGITAL OUTPUT MODULE 2



C PLC ANALOG OUTPUT MODULE 1

DESIGN	BY	Beatrice Bindu	CHECKED	Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS PLC CABINET DETAILS 4	SHEET OF EE3-5	
	DETAILS	BY	Kathi Andreasen	CHECKED			Beatrice Bindu	POST MILE			49.6
	QUANTITIES	BY	Beatrice Bindu	CHECKED			Jipinderpal Kaur	WASTEWATER TREATMENT ENCLOSURE			

UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES (PRELIMINARY STAGE ONLY): 10-13, 5-14, 8-14, 12-14, 2-15, 6-15
 SHEET 26 OF 45
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A 24 VAC CONTROL SCHEMATIC

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: Andrew McSorely
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	88	106

Jaswinder Gill
 REGISTERED ELECTRICAL ENGINEER DATE 6-19-15
 6-22-15
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

* Motor integral thermal protection
 ** For connection to PLC Digital Modules, See **A** EE3-3
 *** For connection to PLC Digital Modules, See **B** EE3-3

DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS		SHEET OF EE3-6				
			POST MILE 49.6	PLC CABINET DETAILS 5						
			WASTEWATER TREATMENT ENCLOSURE	REVISION DATES (PRELIMINARY STAGE ONLY)						
DETAILS BY Dali Zhou CHECKED Beatrice Bindu	UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	10-13	5-14	9-14	12-14	2-15	6-15	27	45
QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3									

TAEWW Imperial - CCSC Rev. 02/13
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	89	106

Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

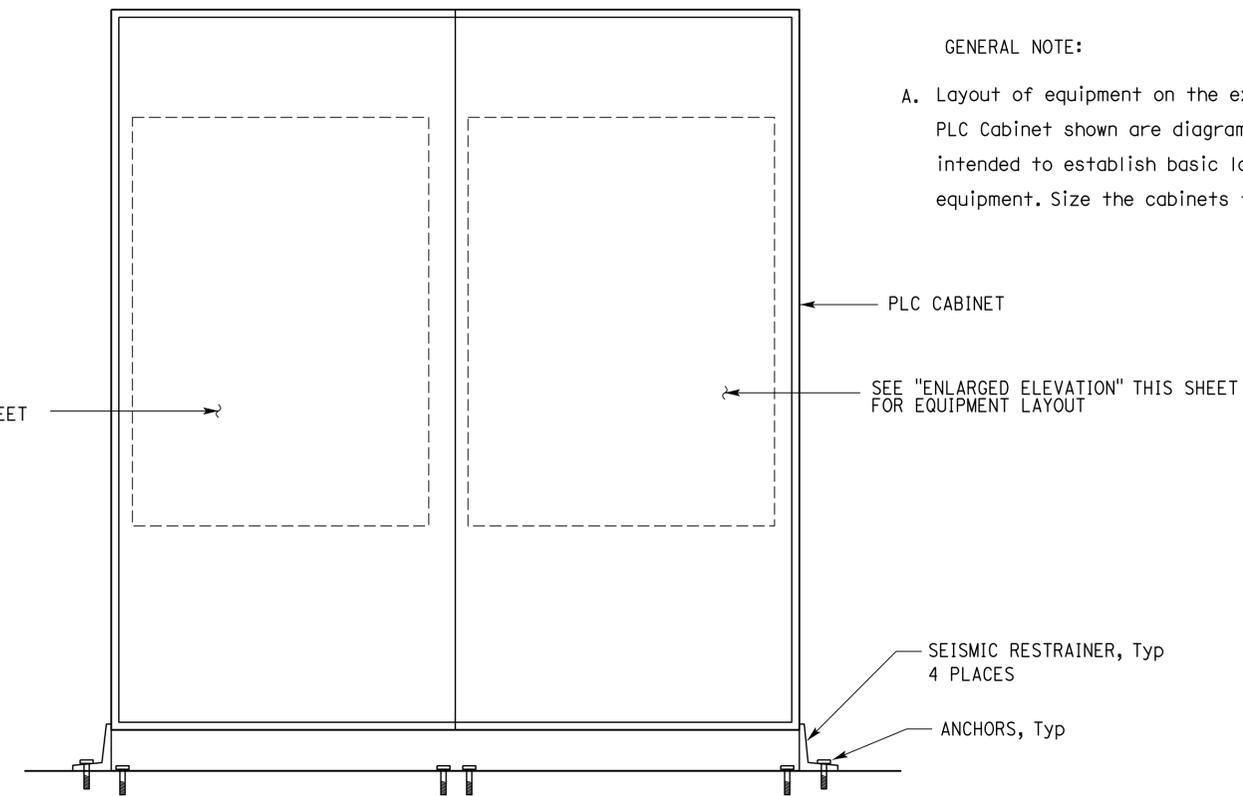
Registered Electrical Engineer
 DATE: 6-19-15
 PLANS APPROVAL DATE: 6-22-15

REGISTERED PROFESSIONAL ENGINEER
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

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GENERAL NOTE:

A. Layout of equipment on the exterior of the PLC Cabinet shown are diagrammatic only and is intended to establish basic location of the devices and equipment. Size the cabinets to fit all installed components.

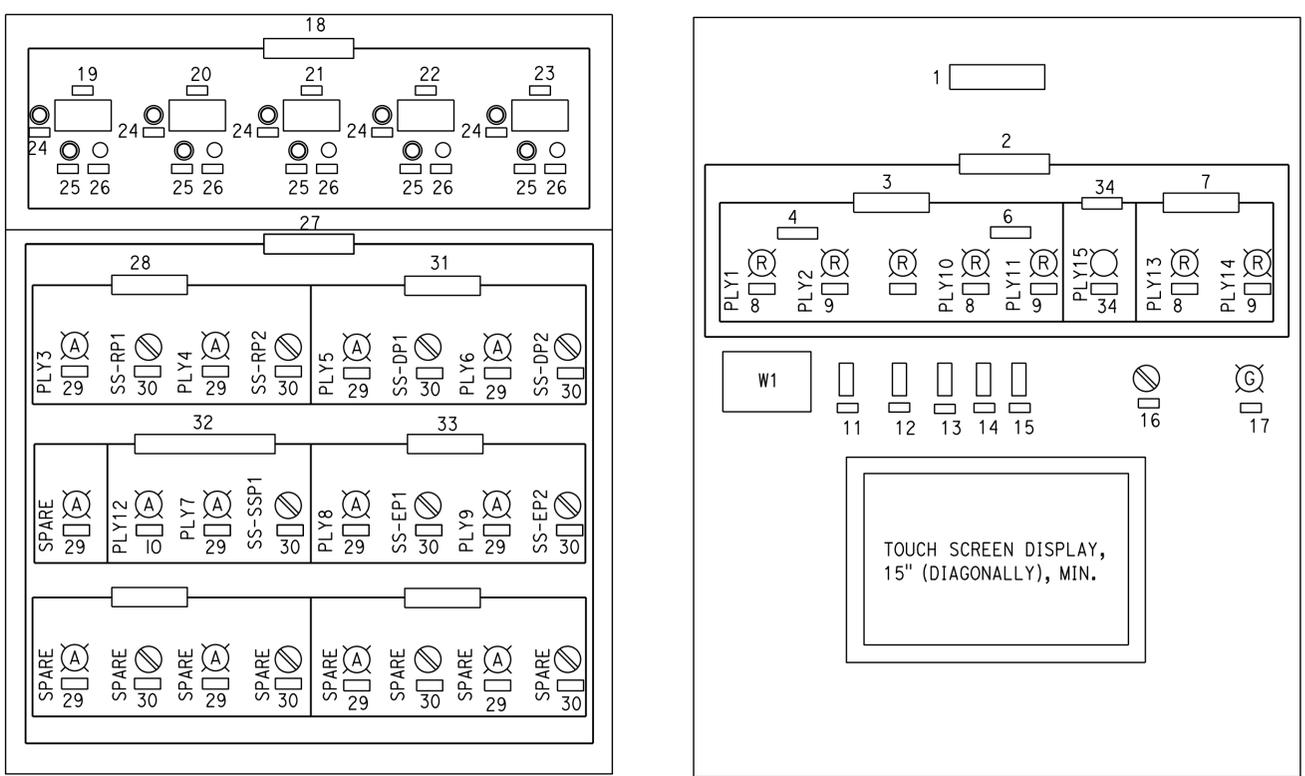


A ELEVATION
NO SCALE

SEE "ENLARGED ELEVATION" THIS SHEET FOR EQUIPMENT LAYOUT

WARNING PLATE SCHEDULE		
TAG No.	INSCRIPTION	LETTER HEIGHT (inch)
W1	WARNING! BEFORE SERVICING CABINET TURN "PLC DISCONNECT'S", "DC POWER SUPPLY DISCONNECTS'S", "UPS DISCONNECT AND "CONTROL AC POWER DISCONNECT" TO OFF POSITION TO DE-ENERGIZE THE PLC CABINET	1/2

NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT (inch)
1	PLC CONTROL CABINET	1/4
2	ALARMS	"
3	RECIRCULATION TANK	"
4	RECIRCULATION CHAMBER	"
5	NOT USED	"
6	DISCHARGE CHAMBER	"
7	PUMP BASIN	"
8	LOW LEVEL	"
9	HIGH LEVEL	"
10	TIMER ON	"
11	MAIN PLC DISCONNECT	"
12	HOT STANDBY PLC DISCONNECT	"
13	DC POWER SUPPLY 1 DISCONNECT	"
14	DC POWER SUPPLY 2 DISCONNECT	"
15	UPS DISCONNECT	"
16	CONTROL AC POWER DISCONNECT (ACD)	"
17	PLC POWER	"
18	DISPLAYS UNIT	"
19	RT RECIRCULATION CHAMBER LEVEL	"
20	RT DISCHARGE CHAMBER LEVEL	1/4
21	PUMP BASIN LEVEL	"
22	RT DISCHARGE CHAMBER FLOW	"
23	SEPTIC TANK SLUDGE LEVEL	"
24	SELECTOR	"
25	TEST SWITCH	"
26	SIMULATOR	"
27	STATUS	"
28	RECIRCULATION TANK RECIRCULATION CHAMBER	"
29	PUMP ON	"
30	HAND-OFF-AUTO	"
31	RECIRCULATION TANK DISCHARGE CHAMBER	"
32	SCUM SUPPRESSION PUMP	"
33	PUMP BASIN	"
34	COMMON ALARM	"
35		"
36		"
37		"
38		"



ENLARGED ELEVATION

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Beatrice Bindu	CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS	SHEET EE3-7
				POST MILE 49.6		
DETAILS BY Dali Zhou	CHECKED Beatrice Bindu			PLC CABINET DETAILS 7		
QUANTITIES BY Beatrice Bindu	CHECKED Jipinderpal Kaur			REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF 28 45

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 10-1-13, 3-9-14, 9-8-14, 12-2-14, 2-18-15, 6-19-15
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 Reviewed by: *[Signature]*
ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	90	106

Jaswinder Gill 6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE
 6-22-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Gill
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

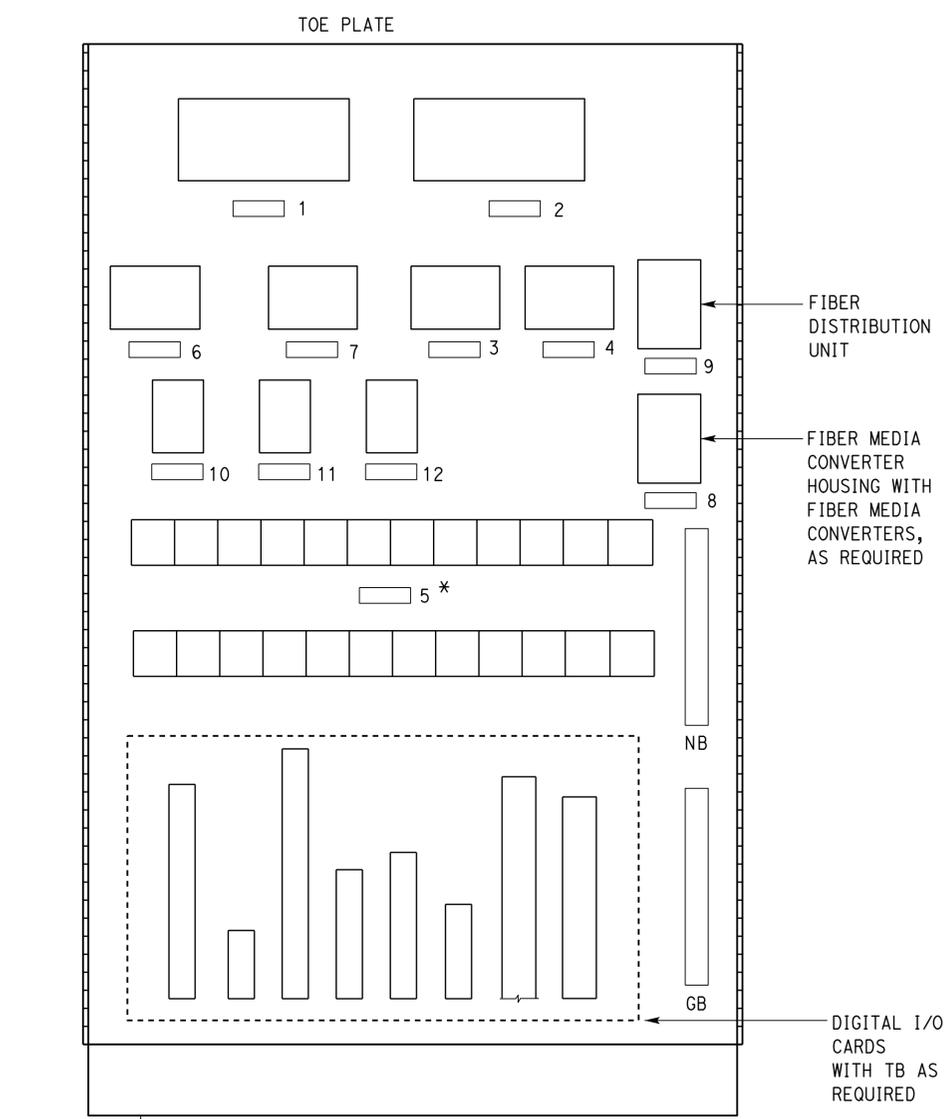
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GENERAL NOTES:

- A. Layout of equipment inside the PLC Cabinet shown are diagrammatic only and are intended to establish basic location of the devices and equipment. Size the cabinets to fit all installed components.
- B. Provide screw on type laminated phenolic plastic nameplates for all the junction boxes with label as noted.
- C. Size of the junction boxes shown here is diagrammatically only. Size junction boxes as required to fit all devices for terminating the float switches, level transducers and flow meters as recommended by the manufacturers of these devices.
- D. All exposed conduits must be PVC coated rigid steel conduits.

NOTES:

- ① Terminate cable and breather tube inside a NEMA 3R Weatherproof JB as recommended by the Level Transducer manufacturer including any connectors and devices recommended by the transducer/cable manufacturers for easy replacement of the level transducer in future.
- ② Splice fiber optic float switch cables to fiber optic patch cords inside Fiber Optic junction box using manufacture approved splicing method.
- ③ 1" C, motor power and control cable as required.
- ④ 1" C, 2 fiber optic float switch cords.



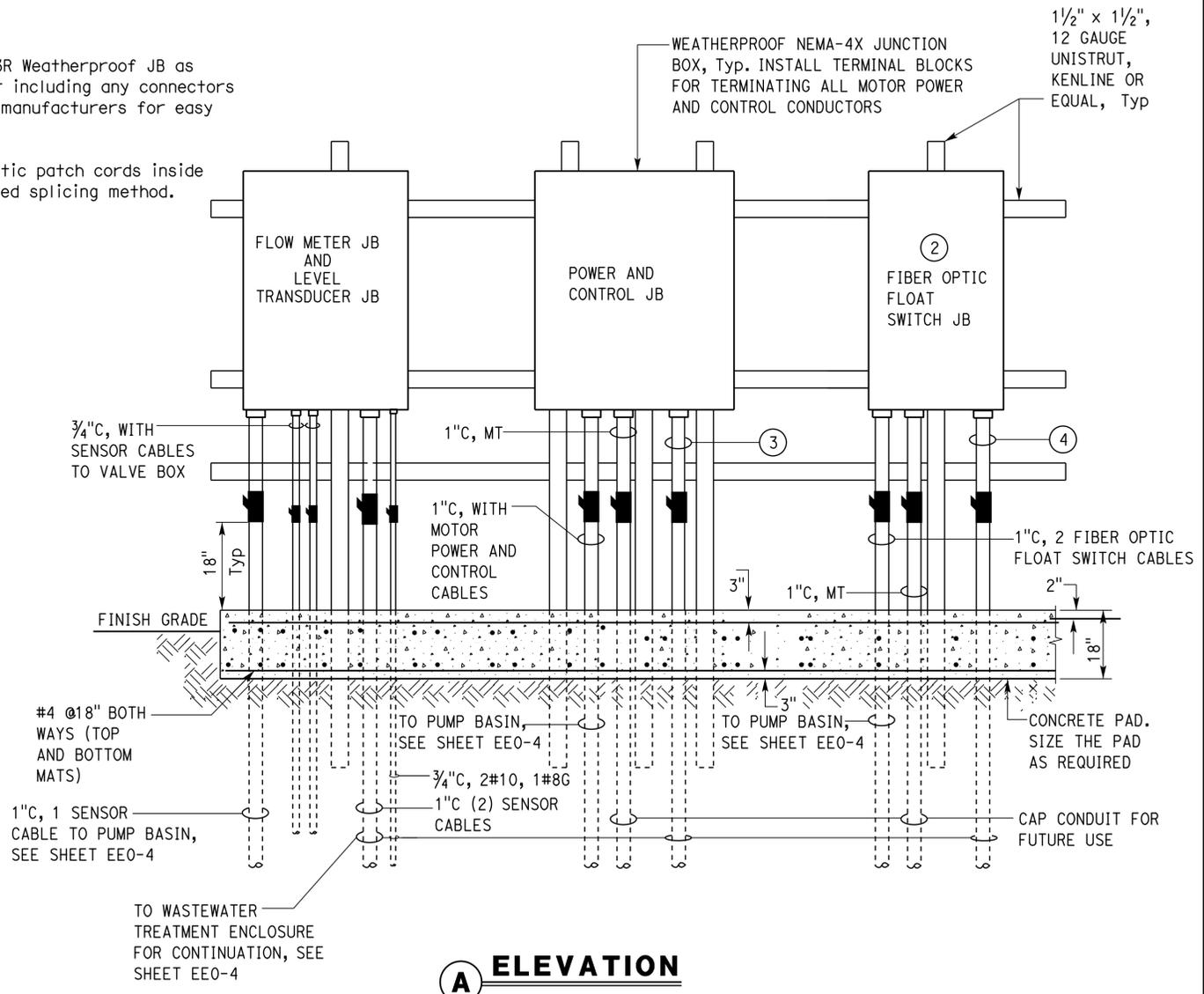
INTERIOR PANEL

(PLC CABINET 1 AND PLC CABINET 2)
 NO SCALE

* When installed all relays must be identified in a manner as called for on the fabrication drawings.

ITEM No.	INSCRIPTION	LETTER HEIGHT (inch)
1	MAIN PLC	1/4
2	HOT STANDBY PLC	"
3	DC POWER SUPPLY 1	"
4	DC POWER SUPPLY 2	"
5	INTERFACE RELAY IR1-----IRN	1/8
6	CELL MODEM	1/4
7	UPS	"
8	FIBER MEDIA CONVERTER	"
9	FIBER DISTRIBUTION UNIT	"
10	FT-RFS	"
11	FT-DFS	"
12	FT-EFS	"

NAMEPLATE SCHEDULE



A ELEVATION

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Beatrice Bindu	CHECKED Jipinderpal Kaur
DETAILS	BY Dali Zhou	CHECKED Beatrice Bindu
QUANTITIES	BY Beatrice Bindu	CHECKED Jipinderpal Kaur

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 07R0003
 POST MILE 49.6

HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS

PLC CABINET DETAILS 8

SHEET **EE3-8** OF 45

CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15

CSFM FILE#01-18-11-0003-000

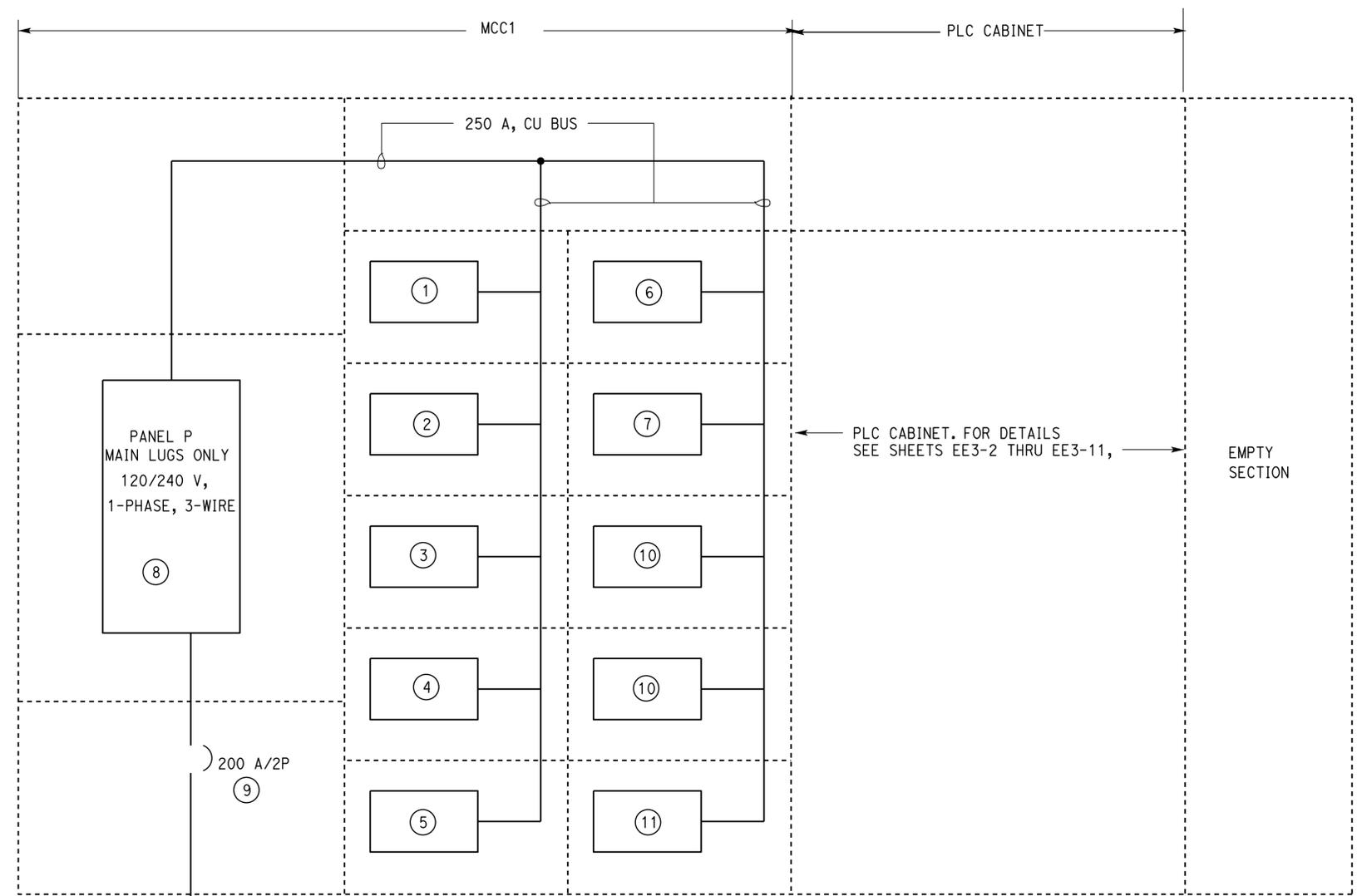
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Lgs, Sac	395, 5	49.6, 23.3	91	106

Jaswinder Gill 6-19-15
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6-22-15
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REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Gill
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA



- NOTES:
- ① Recirculation Tank Effluent Turbine Pump RP1 Combination Starter.
 - ② Recirculation Tank Effluent Turbine Pump RP2 Combination Starter.
 - ③ Recirculation Tank Effluent Turbine Pump SSP1 Combination Starter.
 - ④ Recirculation Tank Effluent Turbine Pump DP1 Combination Starter.
 - ⑤ Recirculation Tank Effluent Turbine Pump DP2 Combination Starter.
 - ⑥ Pump Basin Effluent Turbine Pump EP1 Combination Starter.
 - ⑦ Pump Basin Effluent Turbine Pump EP1 Combination Starter.
 - ⑧ Panel P, for Panel schedule see this sheet.
 - ⑨ WasteWater treatment enclosure disconnect.
 - ⑩ Empty.
 - ⑪ Empty.

TO MAIN SWITCHBOARD
 VIA PULL BOXES, SEE SHEET EE0-3
 FOR CONTINUATION

**WASTEWATER TREATMENT ENCLOSURE
 SINGLE LINE DIAGRAM**

MAIN: MAIN LUGS ONLY
 VOLTS: 120 / 240 V, 1PHASE, 3-WIRE

PANEL P *
 SCCR 24K

FEEDER SIZE: 4#500 kcmil, 1#500 kcmil G
 LOCATION: WASTEWATER TREATMENT ENCLOSURE

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
SPARE	X		15/1	1	•		2	20/1	2		ALL DMM
PLC CABINET		2	15/1	3		•	4	15/1		2	PLC CABINET
24 V AC CONTROLS	10		20/1	5	•		6	15/1	2		FLOW METER PUMP BASIN
SLUDGE CONTROLLER		2	15/1	7		•	8	15/1		2	PLC CABINET
SPARE	-		60/2	9	•		10	20/1	X		SPARE
		-		11	•		12	20/1		X	SPARE
HEATER CONTROL PANEL 6000 W	25		40/2	13	•		14	125/2	80		WASTEWATER COMBINATION STARTERS
		25		15	•		16		80		
SPARE	X		30/2	17	•		18	20/1	X		SPARE
		X		19	•		20	20/1		X	SPARE

* SPACES 21-30 ARE NOT SHOWN HERE FOR CLARITY

A	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
119	113	

DESIGN BY: Beatrice Bindu	CHECKED: Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS MCC DETAILS 1	SHEET 30 OF 45
DETAILS BY: Dali Zhou	CHECKED: Beatrice Bindu			POST MILE 49.6		
QUANTITIES BY: Beatrice Bindu	CHECKED: Jipinderpal Kaur			WASTEWATER TREATMENT ENCLOSURE		

UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

5-14-14	9-14-14	12-14-14	2-15-15	6-19-15
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

TAEWW Imperial - CCSC Rev. 02/13

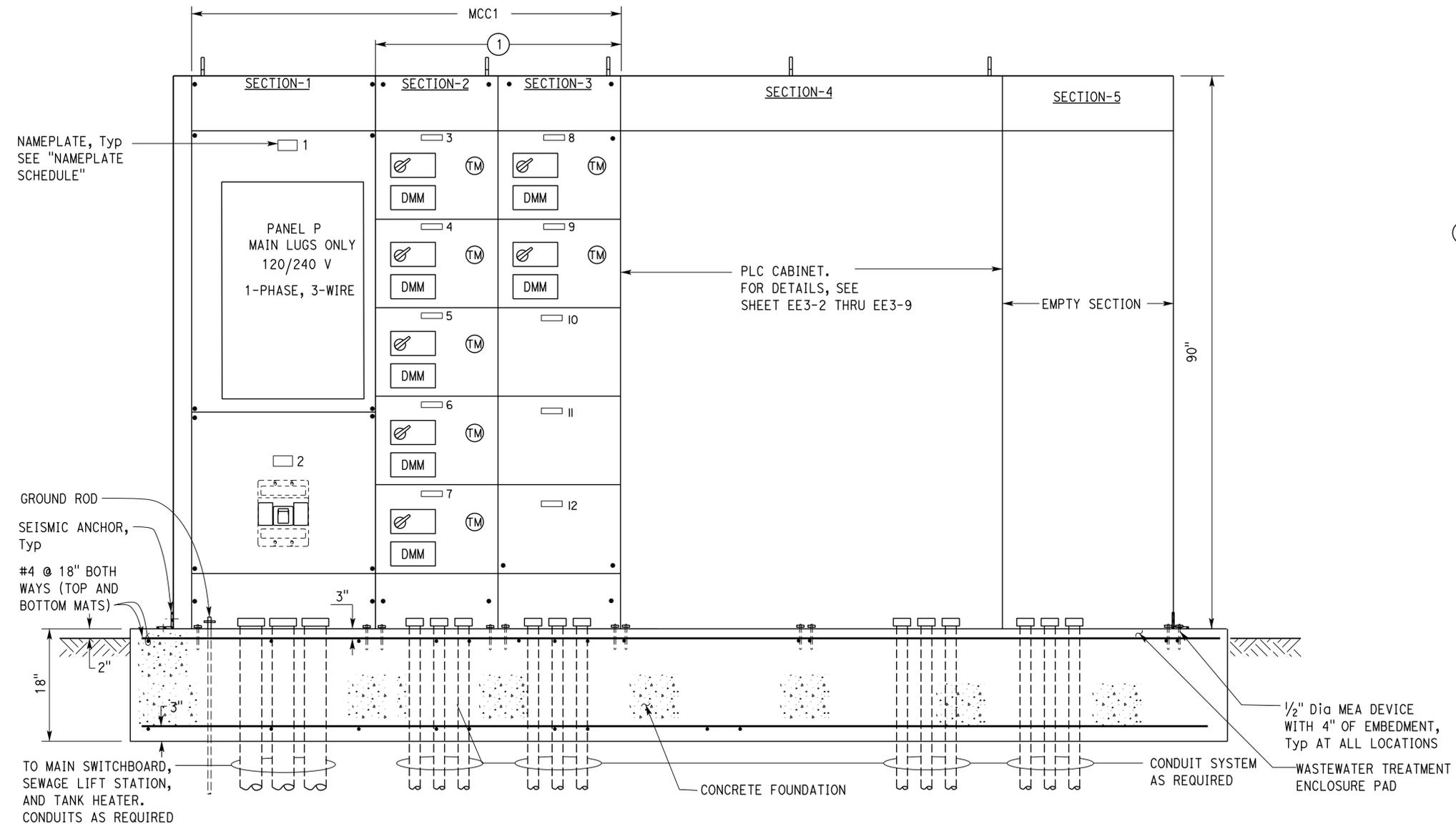
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	92	106

Approved by: *Jaswinder Gill* 6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE
 6-22-15
 PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000



NOTE:

① Provide a metal physical barrier between these sections to isolate the arc fault hazard to individual sections only.

NAMEPLATE SCHEDULE *		
ITEM No.	INSCRIPTION	LETTER HEIGHT
1	DISTRIBUTION SECTION-PANEL P	1/2"
2	WASTEWATER TREATMENT ENCLOSURE DISCONNECT	1/2"
3	EFFLUENT TURBINE PUMP RP1	1/2"
4	EFFLUENT TURBINE PUMP RP2	1/2"
5	EFFLUENT TURBINE PUMP SSP1	1/2"
6	EFFLUENT TURBINE PUMP DP1	1/2"
7	EFFLUENT TURBINE PUMP DP2	1/2"
8	EFFLUENT TURBINE PUMP EP1	1/2"
9	EFFLUENT TURBINE PUMP EP2	1/2"
10	SPARE	1/2"
11	SPARE	1/2"
12	SPARE	1/2"
13		
14		
15		
16		
17		
18		

* White lettering on black phenolic

A WASTEWATER TREATMENT ENCLOSURE
 WEATHERPROOF ENCLOSURE NOT SHOWN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur DETAILS BY Dali Zhou CHECKED Beatrice Bindu QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003 POST MILE 49.6	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS MCC DETAILS 2	SHEET OF EE3-10
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 5-14 9-14 12-14 2-15 6-19-15	SHEET OF 31 45
	TAEWW Imperial - CCSC Rev. 02/13	P:\dist_02\0212000033_honey_lake_srra_ww_upgrade\expedite\ee3_10.dgn			

GENERAL NOTES:

- A. Provide screw on type laminated phenolic plastic nameplates for all the junction boxes with label as noted below.
- B. Size of the junction boxes shown here is diagrammatic only. Size junction boxes as required to fit all devices for terminating the float switches, level transducers and flow meters as recommended by the manufacturers of these devices.
- C. All exposed conduits must be PVC coated rigid steel conduits.

NOTES:

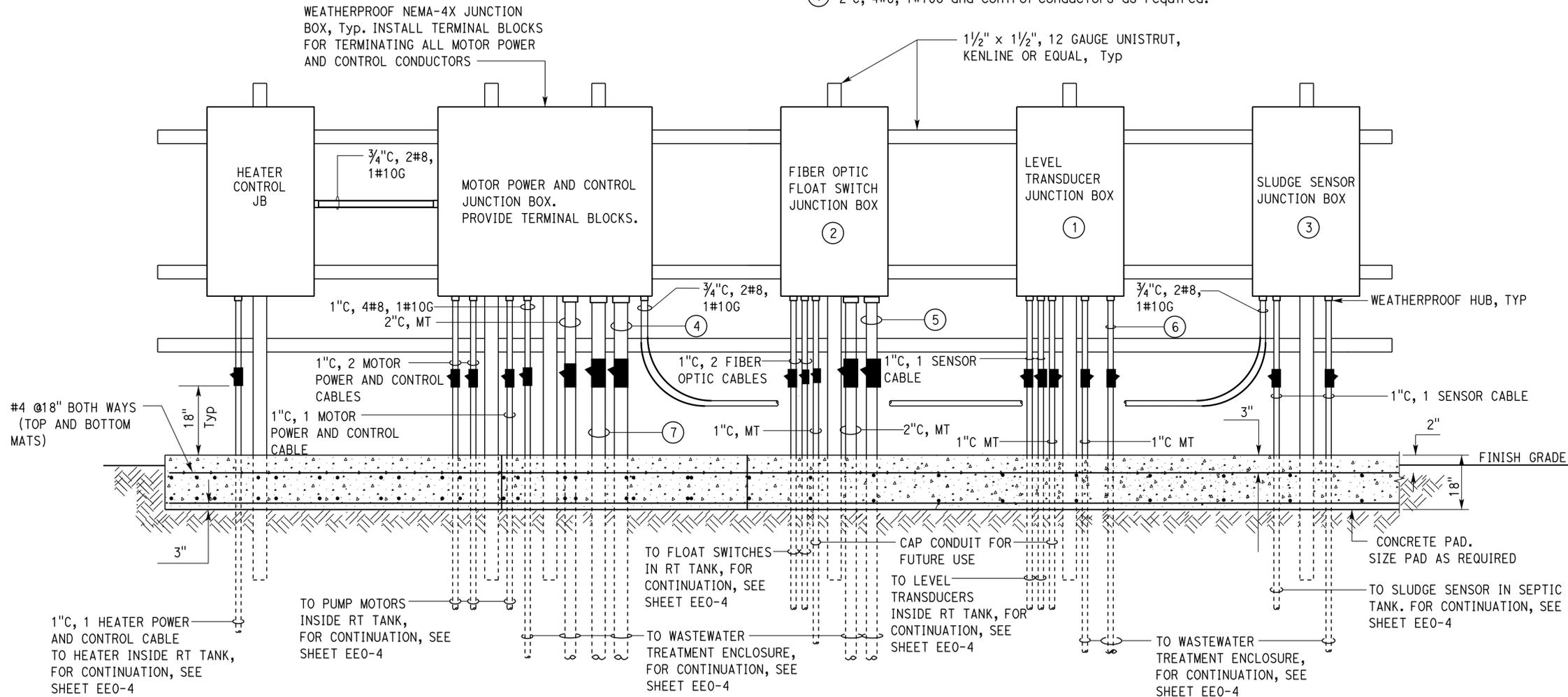
- ① Terminate cable and breather tube inside a NEMA 3R Weatherproof JB as recommended by the Level Transducer manufacturer including any connectors and devices recommended by the transducer/cable manufacturers for easy replacement of the level transducer in future.
- ② Splice fiber optic float switch cables to fiber optic patch cords inside Fiber Optic junction box using manufacture approved splicing method.
- ③ Install Sludge Sensor Controller.
- ④ 2"C, 6#8, 1#10G and control conductors as required.
- ⑤ 2"C, 4 fiber optic float switch patch cords and 2 spare patch cords.
- ⑥ 1"C, 2 sensor cables.
- ⑦ 2"C, 4#8, 1#10G and control conductors as required.

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 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	93	106

Jaswinder Gill 6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE
 6-22-15
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Gill
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA



A ELEVATION
 NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Beatrice Bindu	CHECKED Jipinderpal Kaur
DETAILS	BY Dali Zhou	CHECKED Beatrice Bindu
QUANTITIES	BY Beatrice Bindu	CHECKED Jipinderpal Kaur

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No.	07R0003
POST MILE	49.6

HONEY LAKE SRRA
 WASTEWATER SYSTEM IMPROVEMENTS
 JUNCTION BOXES ELEVATION

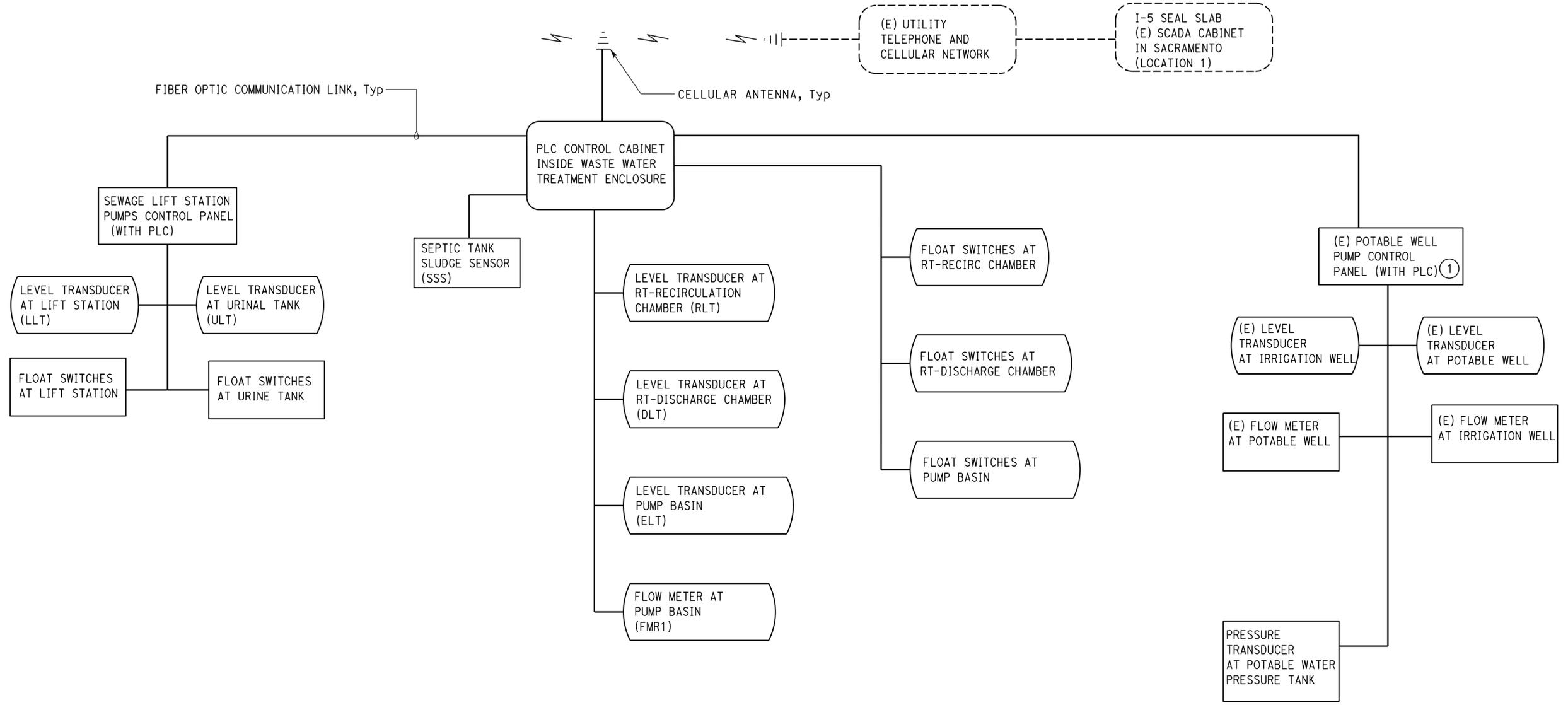
SHEET
EE3-11

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 ANDREW MCSORELY
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Jaswinder Gill 6-19-15
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 Jaswinder Gill
 No. E 18551
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 ELEC
 STATE OF CALIFORNIA



NOTE:
 ① Modify existing potable well pump control cabinet PLC programming to incorporate the pressure transducer at the potable water pressure tank and coordinate with the SCADA system integrator.

DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur	DETAILS BY Kathi Andreasen/Y Sun CHECKED Beatrice Bindu	QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS WASTEWATER TREATMENT ENCLOSURE PLC INTERCONNECTION DIAGRAM	SHEET EE3-12	
					POST MILE 49.6		REVISION DATES (PRELIMINARY STAGE ONLY)	OF 45
					UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331		DISREGARD PRINTS BEARING EARLIER REVISION DATES 10-1-13 5-9-14 9-8-14 12-2-14 2-18-15 6-19-15	33

TAEMWW Imperial - CCSC Rev. 02/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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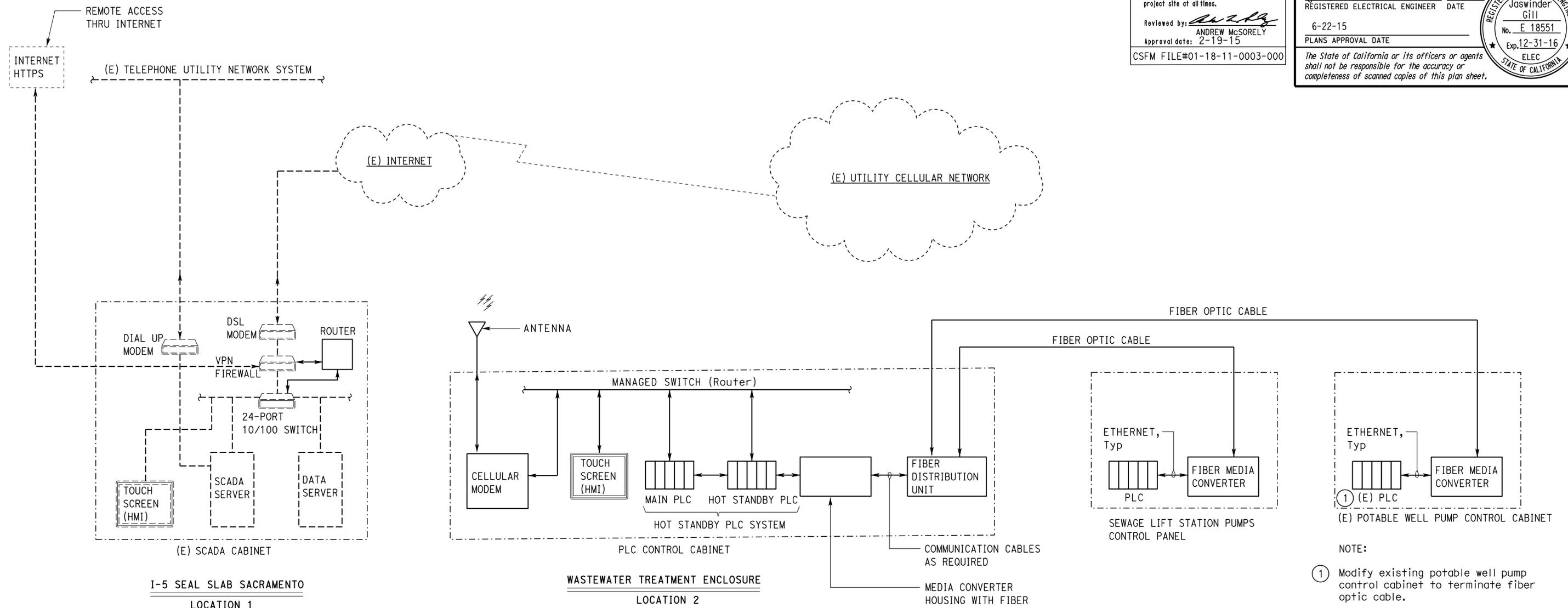
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *[Signature]*
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	95	106

Jaswinder Gill 6-19-15
 REGISTERED ELECTRICAL ENGINEER DATE
 6-22-15
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REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Gill
 No. E 18551
 Exp. 12-31-16
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 STATE OF CALIFORNIA

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- GENERAL NOTES:
- A. Existing SCADA and data/servers and other hardware are located at I-5 Seal Slab site in Sacramento, California (Location 1). For work at I-5 Seal Slab site, see Project Specifications. ALL work at seal slab will be performed by TESCO Controls. See specification for details.
 - B. Existing SCADA system was integrated by TESCO Controls of Sacramento, California.

NOTE:
 ① Modify existing potable well pump control cabinet to terminate fiber optic cable.

COMMUNICATION AND NETWORKING DIAGRAM

DESIGN BY Beatrice Bindu CHECKED Jipinderpal Kaur	DETAILS BY Kathi Andreasen/Y Sun CHECKED Beatrice Bindu	QUANTITIES BY Beatrice Bindu CHECKED Jipinderpal Kaur	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 07R0003	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS WASTEWATER TREATMENT ENCLOSURE	SHEET EE3-13
					POST MILE 23.3		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 10-13 5-14 9-14 12-14 2-15 6-15	SHEET OF 34 45

TAEWW Imperial - CCSC Rev. 02/13
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Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15

CSFM FILE#01-18-11-0003-000

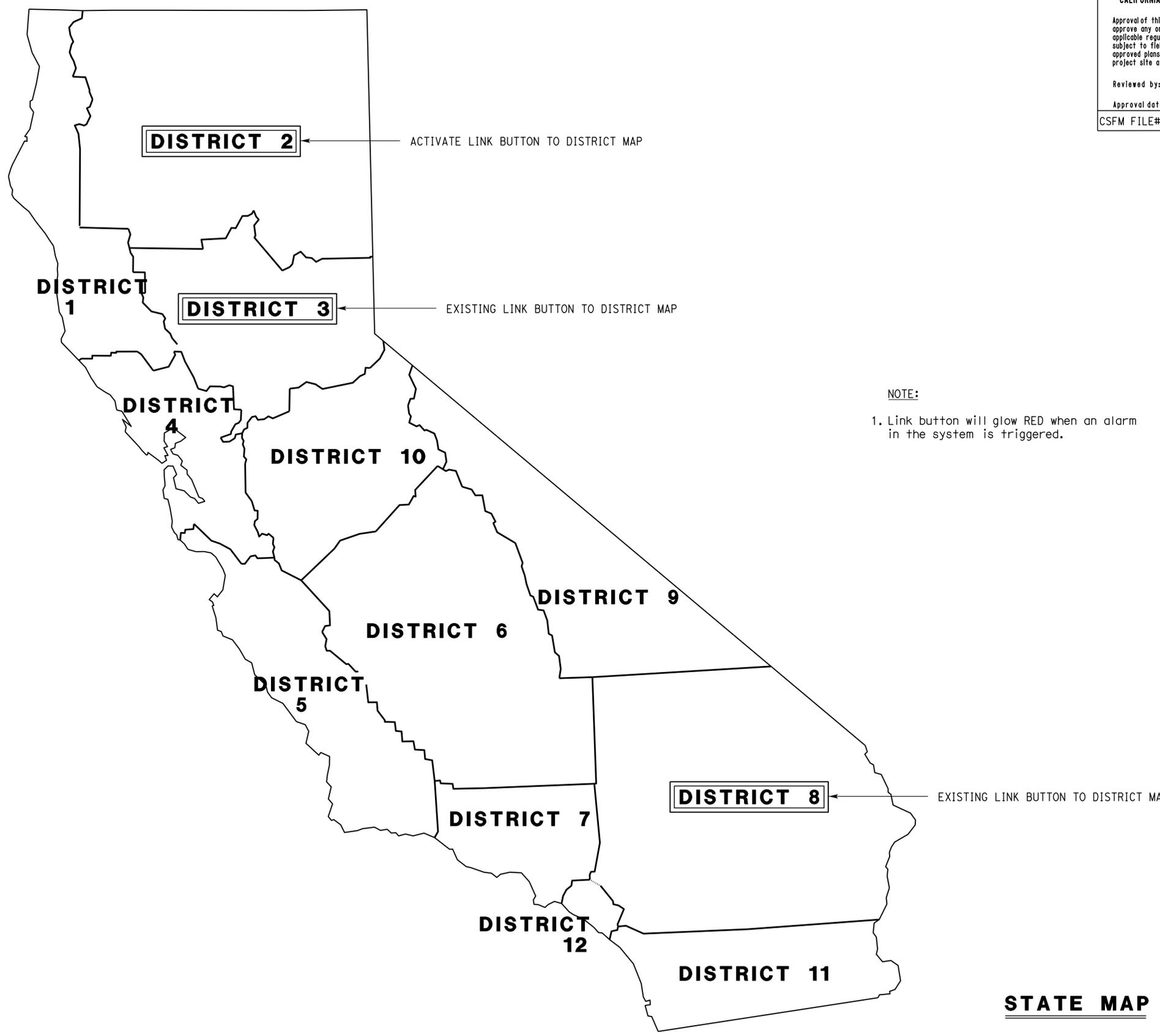
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	96	106

Jaswinder Gill 6-19-15
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6-22-15
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Jaswinder Gill
 No. E 18551
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 STATE OF CALIFORNIA

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NOTE:
 1. Link button will glow RED when an alarm in the system is triggered.

- MENU:**
- [District 1](#)
 - [District 2 - Link to District Map](#)
 - [District 3](#)
 - [District 4](#)
 - [District 5](#)
 - [District 6](#)
 - [District 7](#)
 - [District 8 - \(E\) link to District Map](#)
 - [District 9](#)
 - [District 10](#)
 - [District 11](#)
 - [District 12](#)

DESIGN BY Andy Quan CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	HONEY LAKE SRR WASTEWATER SYSTEM IMPROVEMENTS	SHEET OF EE4-1	
			POST MILE 23.3			MODIFIED SCADA MAIN DISPLAY SCREEN
DETAILS BY Andy Quan CHECKED Jaswinder Gill	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES			SHEET OF 35 45
QUANTITIES BY CHECKED			REVISION DATES (PRELIMINARY STAGE ONLY) 4-14-14 9-18-14 12-2-14 2-18-15 6-19-15			

TAEMWW Imperial - CCSC Rev. 02/13

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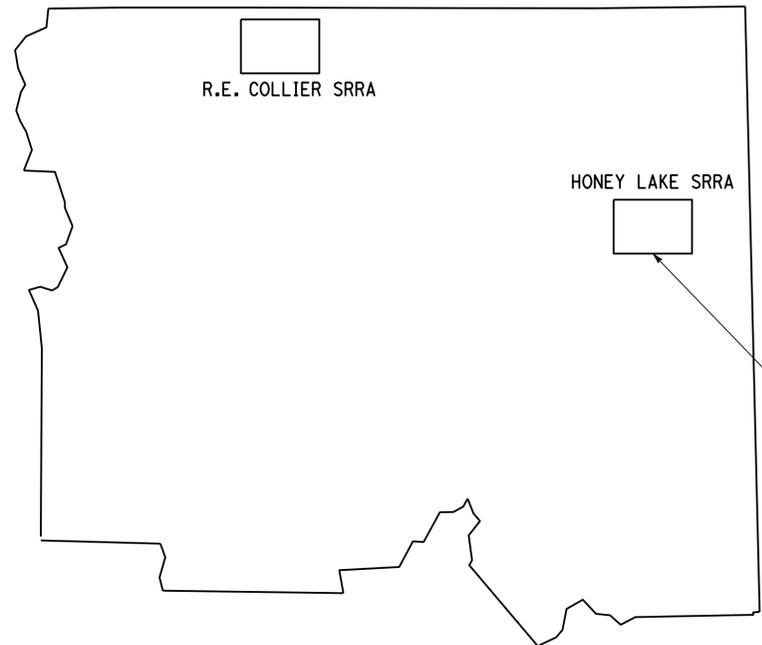
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 ANDREW MCSORELY
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	97	106

Jaswinder Gill
 REGISTERED ELECTRICAL ENGINEER DATE 6-19-15
 6-22-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Jaswinder Gill
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

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NOTES:

1. Upon selecting the remote site button, an additional login screen must be provided to control the access and to authorized users of that site.
2. Link button will glow RED when an alarm in the system is triggered.

LINK BUTTON TYPICAL TO ACCESS THE REMOTE SITE. SEE NOTE 1.

DESIGN	BY	Andy Quan	CHECKED	Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	HONEY LAKE SRRRA WASTEWATER SYSTEM IMPROVEMENTS DISTRICT MAP SCREENSHOT	SHEET	EE4-2		
	DETAILS	BY	Andy Quan	CHECKED			Jaswinder Gill		POST MILE		23.3	OF
	QUANTITIES	BY		CHECKED					UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 12-8-14 2-18-15 6-19-15

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

TAEMWW Imperial - CCSC Rev. 02/13

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24-JUN-2015 16:51

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Reviewed by: *[Signature]*
 ANDREW MCSORELY
 Approval date: 2-19-15

CSFM FILE#01-18-11-0003-000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, SAC	395, 5	49.6, 23.3	98	106

Jaswinder Gill
 REGISTERED ELECTRICAL ENGINEER DATE 6-19-15

6-22-15
 PLANS APPROVAL DATE

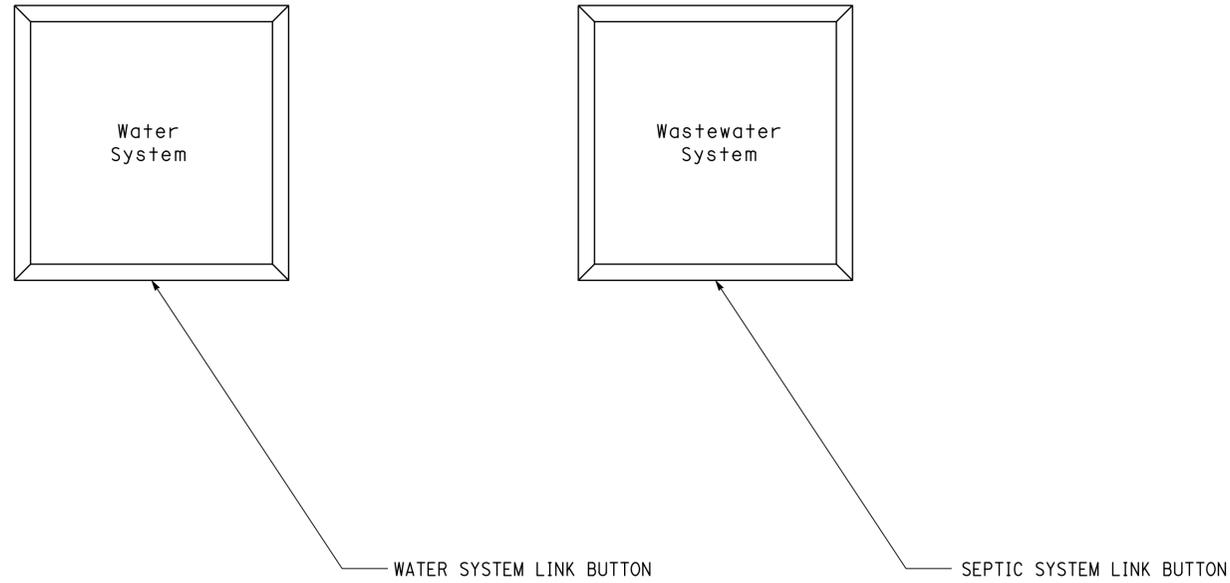
[Professional Engineer Seal: Jaswinder Gill, No. E 18551, Exp. 12-31-16, ELEC, STATE OF CALIFORNIA]

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PLEASE SELECT A SYSTEM:

GENERAL NOTES:

- A. Link button text will blink RED when an alarm in the system is triggered.
- B. Page background color is WHITE.



DESIGN	BY	Andy Quan	CHECKED	Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.		HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS SYSTEM SELECTION SCREENSHOT	SHEET		
	DETAILS	BY	Andy Quan	CHECKED			Jaswinder Gill	POST MILE		49.6	OF	
	QUANTITIES	BY		CHECKED				UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 12-8-14 2-18-15 6-19-15	37

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

TAEMWW Imperial - CCSC Rev. 02/13

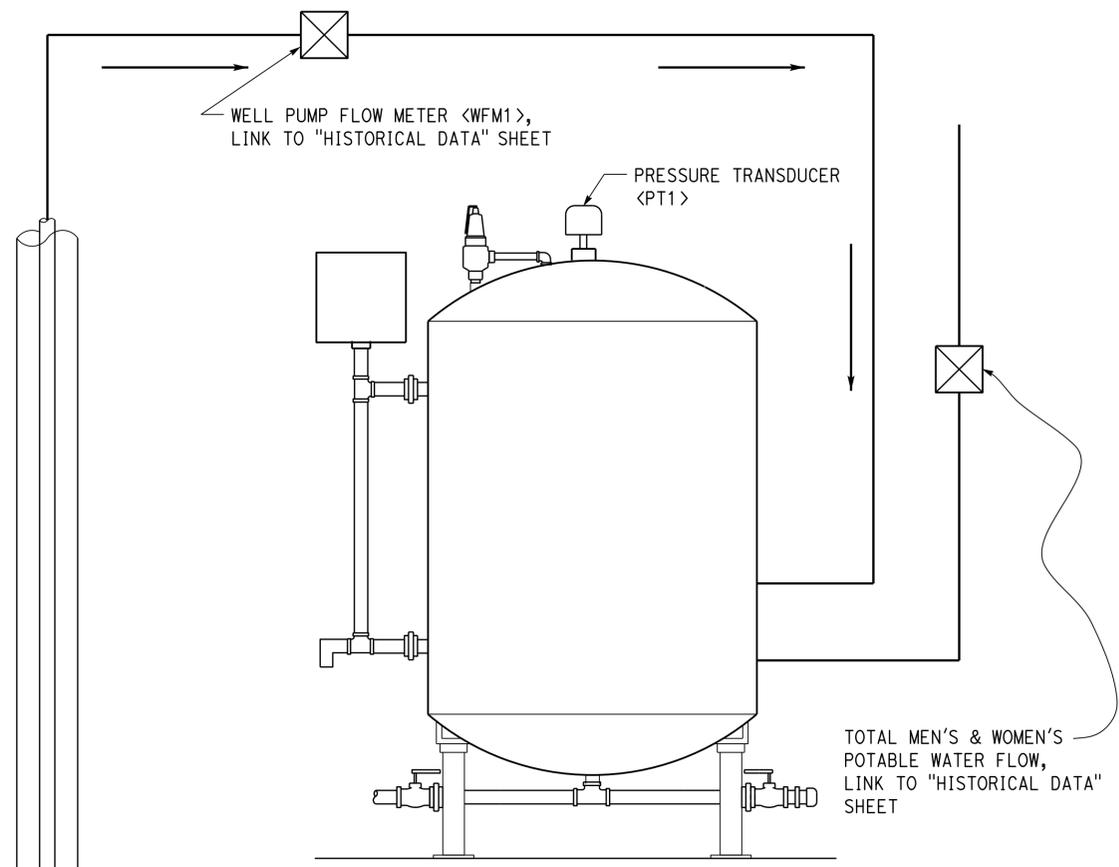
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	99	106

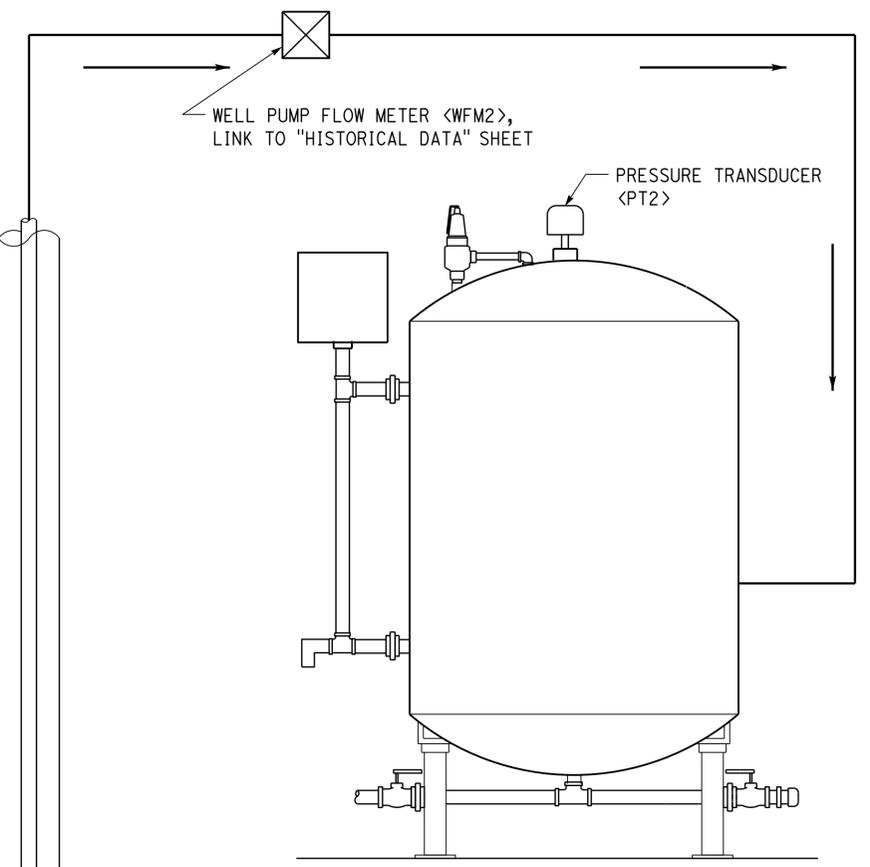
Jaswinder Gill
 REGISTERED ELECTRICAL ENGINEER DATE 6-19-15
 PLANS APPROVAL DATE 6-22-15
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

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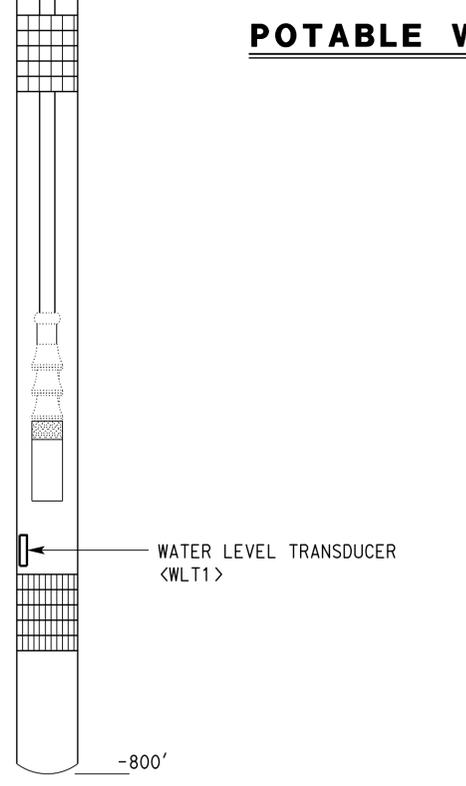
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *[Signature]*
 ANDREW MCSORELY
 Approval date: 2-19-15
 CSFM FILE#01-18-11-0003-000



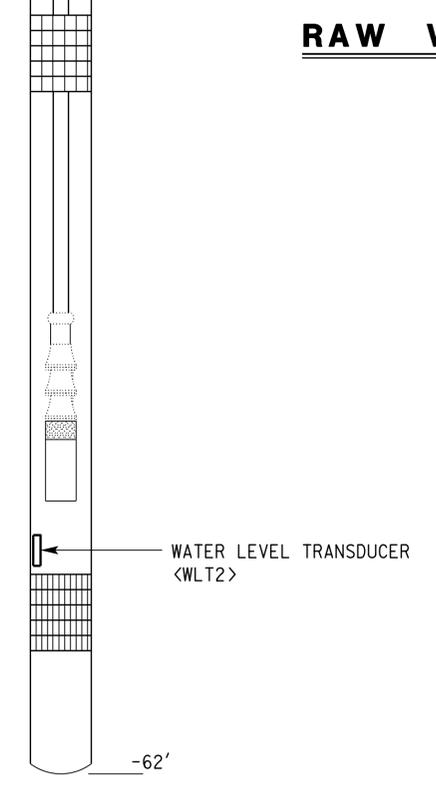
POTABLE WATER STORAGE TANK



RAW WATER STORAGE TANK



POTABLE WATER WELL PUMP



RAW WATER WELL PUMP

- GENERAL NOTES:
- A. Show water level inside the tank as BLUE.
 - B. Show float switch to be GREEN when activated and RED when not activated.
 - C. Show potable water lines to be pulsating BLUE when water is flowing.
 - D. Alarm must be pulsating RED when new alarm condition is present. The user who acknowledged and/or cleared the alarm must be kept and shown in the alarm history.
 - E. Log-in and settings history must show logs of date, time, user name and changes done on the settings. All persons or users who log-in and log-out remotely or locally to the SCADA system must also be shown in log-in and settings history.

WELL PUMP	POTABLE	RAW
STATUS	ON <input type="radio"/>	<input type="radio"/>
	OFF <input type="radio"/>	<input type="radio"/>
OPERATION	MANUAL <input type="radio"/>	<input type="radio"/>
	OFF <input type="radio"/>	<input type="radio"/>
	AUTOMATIC <input type="radio"/>	<input type="radio"/>
RUN TIME METER	<input type="text"/>	<input type="text"/>
VOLTAGE	V _{AC} <input type="text"/>	<input type="text"/>
CURRENT	I _A <input type="text"/>	<input type="text"/>
	I _C <input type="text"/>	<input type="text"/>
* PUMP OPERATION <input type="radio"/> AUTO <input type="radio"/> ON <input type="radio"/> OFF <input type="radio"/> AUTO <input type="radio"/> ON <input type="radio"/> OFF		
POTABLE WELL PUMP SET POINT	ON <input type="checkbox"/>	<input type="checkbox"/>
	OFF <input type="checkbox"/>	<input type="checkbox"/>
LOW LEVEL SET POINT CHANGE CONFIRM	<input type="radio"/>	
POTABLE WELL WATER LEVEL	<input type="text"/>	FT ELEVATION
RAW WELL WATER LEVEL	<input type="text"/>	FT ELEVATION
POTABLE TANK PRESSURE	<input type="text"/>	PSI
RAW WATER TANK PRESSURE	<input type="text"/>	PSI
ALARM STATUS	<input type="radio"/>	<input type="text"/>

- STATUS INDICATION
 - PUSHBUTTON
 - TEXT DISPLAY
 - TEXT DISPLAY WITH SCROLL UP/DOWN FUNCTION
- * PASSWORD REQUIRED FOR OPERATION

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Andy Quan	CHECKED Jaswinder Gill
DETAILS	BY Andy Quan	CHECKED Jaswinder Gill
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. _____
 POST MILE 49.6
HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS
 WATER SYSTEM SCREEN

SHEET **EE4-4** OF 45

CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: *Andrew McSorely*
 ANDREW MCSORELY
 Approval date: 2-19-15

CSFM FILE#01-18-11-0003-000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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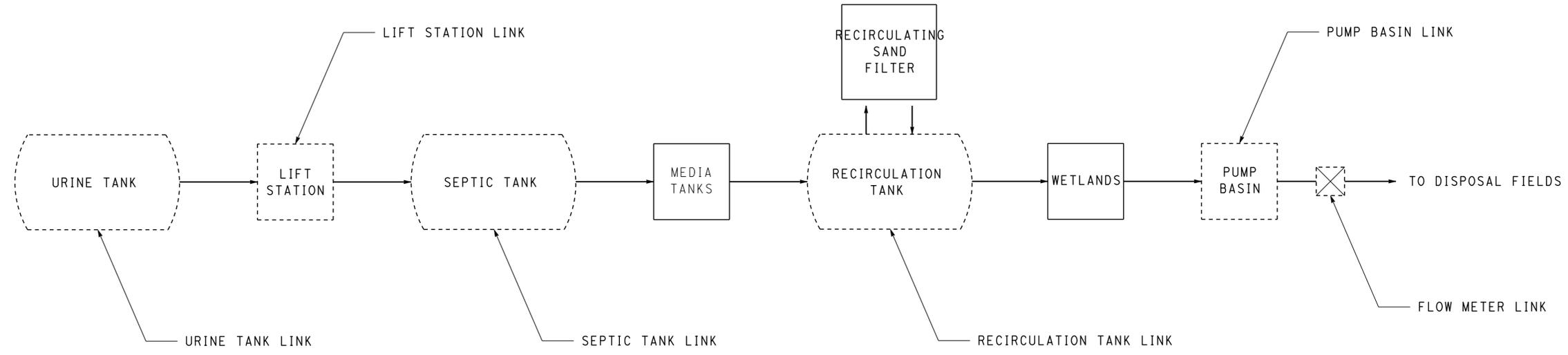
Jaswinder Gill
 REGISTERED ELECTRICAL ENGINEER DATE 6-19-15

6-22-15
 PLANS APPROVAL DATE

Jaswinder Gill
 REGISTERED PROFESSIONAL ENGINEER
 No. E 18551
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

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- GENERAL NOTES:
- A. Text in each shape will blink RED when its alarm is triggered.
 - B. Page background color is WHITE.
 - C. Each process will be highlighted with a bold MAGENTA border as the mouse hovers on it. Default border color is BLACK.



DESIGN BY Andy Quan CHECKED Jaswinder Gill	DETAILS BY Andy Quan CHECKED Jaswinder Gill	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS WASTEWATER SYSTEM SCREENSHOT	SHEET	
					POST MILE		OF EE4-5	
					49.6			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 12-8-14 2-18-15 6-19-15		SHEET OF 39 45

TAEWW Imperial - CCSC Rev. 02/13

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