

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, Sbd	5, 15	23.3, R107.3	301	330

Jaswinder S Gill 08-15-13
REGISTERED ELECTRICAL ENGINEER DATE

9-16-13
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *[Signature]*
FRANCIS SOLICH
Approval date: 09-11-13

LIGHTING FIXTURE SCHEDULE

	MANUFACTURER	LAMP	DESCRIPTION
LED1	KENALL MIGHTY MAC-CD SERIES, COOPER FAIL-SAFE -FCC SERIES, OR EQUAL	MAX. 68 W LED ARRAY	CORNER MOUNTED VANDAL RESISTANT, 48 INCH LONG, MAXIMUM 68 WATTS INPUT LED ENGINE, 3200 MINIMUM DELIVERED LUMENS AT 5000 DEGREE KELVIN TEMPERATURE AT CRI OF 70. THE FIXTURE HOUSING SHALL BE MADE OF 16-GAUGE ONE-PIECE DIE-FORMED COLD ROLLED STEEL BODY PAINTED WHITE WITH PRISMATIC POLYCARBONATE INNER LENS AND CLEAR POLYCARBONATE OUTER LENS SECURED WITH THRU STUDS AND SHALL HAVE TAMPER RESISTANCE FASTENERS. FIXTURE SHALL HAVE AC LED ENGINE DRIVER, UL LISTED, 120V, 50,000 HOUR DESIGN LIFE, 0.9 MINIMUM POWER FACTOR, 5-YEAR WARRANTY, COMPLETE WITH INTERNAL THERMAL PROTECTION AND OVERLOAD PROTECTION. FIXTURE SHALL ALSO BE UL LISTED FOR WET LOCATION. TWO SCREW DRIVERS FOR TAMPERPROOF SCREW SHALL BE FURNISHED TO THE ENGINEER. OVERALL FIXTURE HEIGHT SHALL NOT EXCEED 8 INCHES.
LED2	LITHONIA STL SERIES COLUMBIA PTISERIES OR EQUAL	MAX. 44 W LED ARRAY	SURFACE AND WALL MOUNTED, 12 INCH BY 48 INCH, MAXIMUM 44 W INPUT LED ENGINE, 4000 MINIMUM DELIVERED LUMENS AT 4000 DEGREE KELVIN TEMPERATURE AT CRI OF 80. THE FIXTURE HOUSING SHALL BE MADE OF ONE-PIECE DIE-FORMED COLD ROLLED STEEL BODY PAINTED WHITE COMPLETE WITH A WRAPAROUND LENS. FIXTURE SHALL HAVE AC LED ENGINE DRIVER, UL LISTED, 120V, 50,000 HOUR DESIGN LIFE, 0.9 MINIMUM POWER FACTOR, 5-YEAR WARRANTY, COMPLETE WITH INTERNAL THERMAL PROTECTION AND OVERLOAD PROTECTION. FIXTURE SHALL ALSO BE UL LISTED FOR DAMP LOCATION. TWO SCREW DRIVERS FOR TAMPERPROOF SCREW SHALL BE FURNISHED TO THE ENGINEER.
LED3	LSI INDUSTRIES-XAM SERIES BETA LIGHTING-THE EDGE SERIES OR EQUAL	140 W LED ARRAY	TYPE 15 LIGHTING STANDARD, 140 WATT, 277 VOLT, LIGHT EMITTING DIODES ARRAY, TYPE THREE, FULL CUTOFF LUMINAIRE WITH ONE PIECE DIE-CAST, ALUMINUM ALLOY INTEGRAL COOLING ELECTRONIC MODULE DRIVER. THE LUMINAIRE SHALL HAVE ONE-PIECE DIE-CAST, ALUMINUM ALLOY HOUSING WITH SILICONE GASKET SEALS. ALL EXPOSED DIE-CAST SURFACE SHALL HAVE A SUPER TGIC THERMOSET POLYESTER POWDER COAT PAINT, BRONZE IN COLOR. THE FULL CUTOFF OPTICAL ASSEMBLY SHALL HAVE A FORWARD THROW REFLECTOR WITH NO BACK LIGHT TO THE HOUSE SIDE PERMITTED. FIXTURE SHALL HAVE FACTORY INSTALLED FUSES. POLE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 86-2.04.
CFL1	LSI INDUSTRIES ABOLITE RLM SERIES TROY CLASSIC-HEAVY DUTY RLM SERIES, BARN LIGHT-WAREHOUSE SHADE SERIES OR EQUAL	ONE 42 W CFL	OUTDOOR WALL MOUNTED LUMINAIRE AS SHOWN ON PLANS, 42- WATTS, 277 VOLTS, CUT-OFF LUMINAIRE, REMOTE ELECTRONIC BALLAST MOUNTED AT LOCATION SHOWN ON PLANS WITH SOCKET BASE SUITABLE FOR ONE 42W TRT COMPACT FLUORESCENT LAMPS WITH TEMPERED CLEAR LENSE. ALL EXPOSED DIE-CAST SURFACE SHALL HAVE A SUPER THERMOSET POLYESTER POWDER COAT PAINT. FOR FIXTURE FINISH SCHEDULE, SEE ARCHITECTURAL FINISH SCHEDULE PLAN. THE LAMP SHALL HAVE A WIREGAURD.
CFL2	LSI INDUSTRIES ABOLITE RLM SERIES TROY CLASSIC-HEAVY DUTY RLM SERIES, BARN LIGHT-WAREHOUSE SHADE SERIES OR EQUAL	ONE 42 W CFL	PENDANT OR STEM MOUNTED LUMINAIRE UNDER A CANOPY, 42- WATTS, 277 VOLTS, CUT-OFF LUMINAIRE, REMOTE ELECTRONIC BALLAST MOUNTED AT FIXTURE BASE WITH SOCKET BASE SUITABLE FOR ONE 42W TRT COMPACT FLUORESCENT LAMPS WITH TEMPERED CLEAR LENSE. ALL EXPOSED DIE-CAST SURFACE SHALL HAVE A SUPER THERMOSET POLYESTER POWDER COAT PAINT. FOR FIXTURE FINISH SCHEDULE, SEE ARCHITECTURAL FINISH SCHEDULE PLAN. THE LAMP SHALL HAVE A WIREGAURD.
MH1	LSI INDUSTRIES ABOLITE RLM SERIES TROY CLASSIC-HEAVY DUTY RLM SERIES, BARN LIGHT-WAREHOUSE SHADE SERIES OR EQUAL	ONE 100 W MH	POST-TOP LUMINAIRE, 100- WATTS, 277 VOLTS, METAL HALIDE LUMINAIRE, CUT-OFF, BALLAST MOUNTED INSIDE THE POLE WITH SOCKET BASE SUITABLE FOR ONE REMOTE 100W METAL HALIDE LAMPS WITH TEMPERED CLEAR LENS AND WIREGAURD. ALL EXPOSED DIE-CAST SURFACE SHALL HAVE A SUPER THERMOSET POLYESTER POWDER COAT PAINT. FOR FIXTURE FINISH SCHEDULE, SEE ARCHITECTURAL FINISH SCHEDULE PLAN.
MH3	LITHONIA TWP SERIES DAY BRITE WLM SERIES OR EQUAL	ONE 70 W MH	OUTDOOR WALL MOUNTED, 70 WATT, 120 VOLT, METAL HALIDE LUMINAIRE WITH INTEGRAL BALLAST. THE LUMINAIRE SHALL BE VANDAL- RESISTANCE WITH CLEAR PRISMATIC POLYCARBONATE LENS. HOUSING SHALL BE CONSTRUCTED FROM HEAVY-DUTY TWO PIECE DIE CAST ALUMINUM AND SHALL BE UL LISTED FOR WET LOCATION.
MH4	BRONZELITE G8000 SERIES, KIM LIGHTING LTV730 SERIES, OR EQUAL	ONE 150 W MH	FLAG POLE LUMINAIRE SHALL BE IN GROUND TYPE, 150W, 277 VOLT, METAL HALIDE LUMINAIRE WITH A FIBERGLASS COMPOSITE, SINGLE PIECE HOUSING, INTEGRAL BALLAST, HIGH TEMPERATURE RATED TEMPERED GLASS LENS WITH GUARD, SILICON GASKET FOR WATERTIGHT SEAL, AND SPECULAR SPUN ALUMINUM REFLECTOR WITH 15 DEGREE BEAM FOR AIMING AT THE FLAG. LUMINAIRE SHALL BE SUITABLE FOR INSTALLATION IN CONCRETE.

DESIGN	BY <i>Jaswinder Gill</i>	CHECKED <i>J. S. Sandhu</i>
DETAILS	BY <i>Ed D. Tapalla 9/09</i>	CHECKED <i>Jaswinder Gill</i>
QUANTITIES	BY <i>Jaswinder Gill</i>	CHECKED <i>J. S. Sandhu</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 540004R/L
POST MILE R107.3

C. V. KANE
SAFETY ROADSIDE REST AREA REHABILITATION

LIGHTING SCHEDULE

SHEET **EE8-1.6** OF

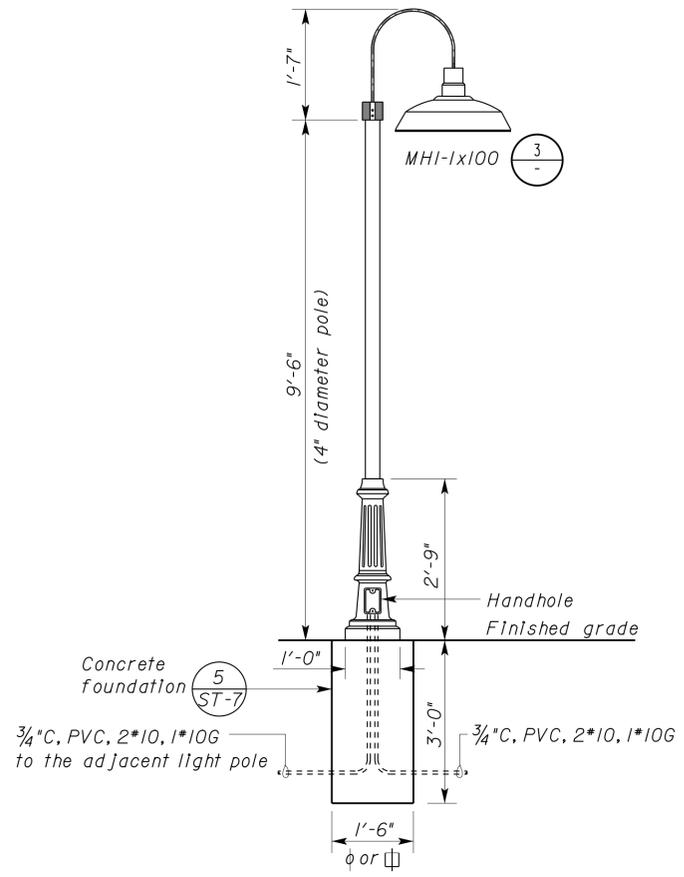
CALIFORNIA STATE FIRE MARSHAL
APPROVED
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 Reviewed by: *[Signature]*
FRANCIS SOLICH
 Approval date: 09-11-13

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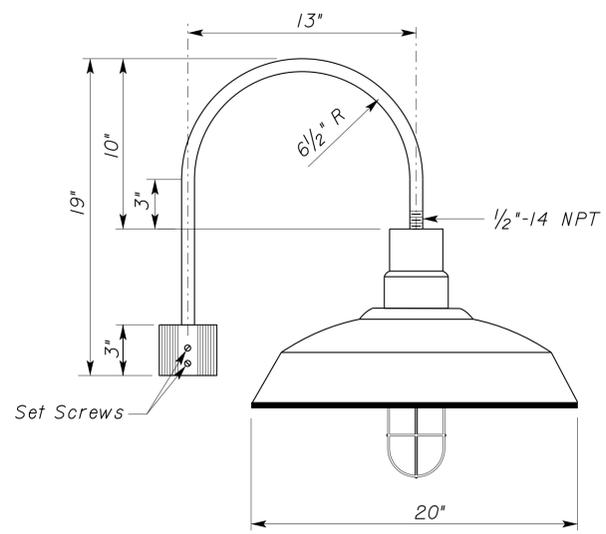
<i>Jaswinder S Gill</i>	08-15-13
REGISTERED ELECTRICAL ENGINEER	DATE

9-16-13
PLANS APPROVAL DATE

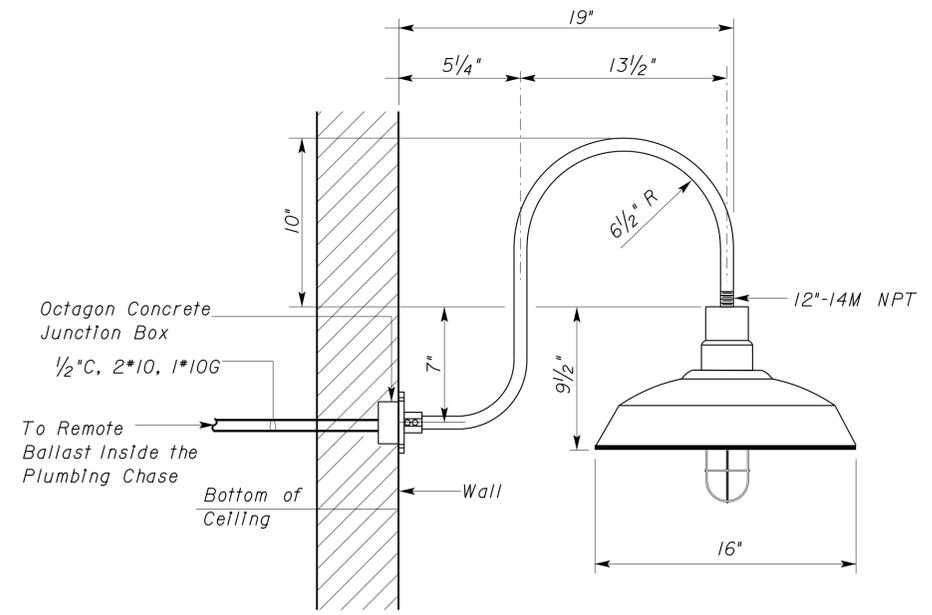
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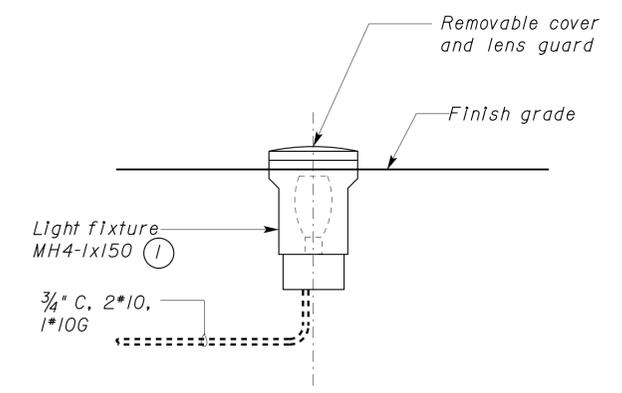
1 POST-TOP FIXTURE
 NO SCALE



3 MH1-1x100
 NO SCALE



4 WALL MOUNT CFL1-1x42
 NO SCALE



5 TYPE MH4 FLAGPOLE LUMINAIRE
 NO SCALE

Note:
 ① Adjust aiming angle so that flagpole is lighted.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY	<i>Jaswinder Gill</i>	CHECKED	<i>J. S. Sandhu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	540004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION LIGHTING DETAILS	SHEET EE8-1.7						
	DETAILS	BY	<i>Ed D. Tapalla 9/09</i>	CHECKED			<i>Jaswinder Gill</i>	POST MILE			R107.3					
QUANTITIES	BY	<i>Jaswinder Gill</i>	CHECKED	<i>J. S. Sandhu</i>	UNIT	3596	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	6/14/10	10/28/10	01/28/11	11/4/11	1/27/12	8/15/13		

ABBREVIATIONS

AB	AGGREGATE BASE	JB	JUNCTION BOX
ACP	ASBESTOS CONCRETE PIPE	lbs	POUNDS
AVC	AIR VOLUME CONTROLLER	L/S	LANDSCAPE
B	BUNG	Max	MAXIMUM
Bldg	BUILDING	MBV	MOTORIZED BALL VALVE
C	CONDUIT	MH	MANHOLE
C-C	CENTER TO CENTER	Min	MINIMUM
CI	CAST-IRON	NHT	NATIONAL HOSE THREAD
CL	CHAIN LINK	O.C.	ON CENTER
Conc	CONCRETE	OD	OUTSIDE DIAMETER
COTF	CLEANOUT TO FLOOR	OG	ORIGINAL GROUND
COTG	CLEANOUT TO GRADE	P/L	PROPERTY LINE
CSP	CORRUGATED STEEL PIPE	PCC	PORTLAND CEMENT CONCRETE
DI	DRAINAGE INLET	PG	PRESSURE GAUGE
Diø	DIAMETER	PRV	PRESSURE REGULATING VALVE
DP	DRAIN PIPE	PS	PRESSURE SWITCH
E	ELECTRICAL	psi	POUNDS PER SQUARE INCH
(E)	EXISTING	PVC	POLYVINYL CHLORIDE
EG	EXISTING GRADE	PW	POTABLE WATER
EL	ELEVATION	R	RADIUS
EP	EDGE OF PAVEMENT	RCP	REINFORCED CONCRETE PIPE
FF	FINISH FLOOR	RPM	REVOLUTIONS PER MINUTE
FG	FINISH GRADE	R/W	RIGHT-OF-WAY
FL	FLOW LINE	RW	RAW WATER
FS	FLOAT SWITCH	S	SLOPE
ft	FEET	Sch	SCHEDULE
Galv	GALVANIZED	SD	STORM DRAIN
gpm	GALLONS PER MINUTE	SP	SEWAGE PIPE
GSP	GALVANIZED STEEL PIPE	sq	SQUARE
HF	HOSE FAUCET	Sta	STATION
H	HEIGHT	Tot	TOTAL
HDPE	HIGH DENSITY POLYETHYLENE	Typ	TYPICAL
HMA	HOT MIX ASPHALT	U/G	UNDERGROUND
HP	HORSEPOWER	V	VOLT
HZ	HERTZ	W	WATER
ID	INSIDE DIAMETER	W/O	WITHOUT
IE	INVERT ELEVATION	WP	WATER PIPE
in	INCHES	WSP	WELDED STEEL PIPE

LEGEND

----- S -----	SANITARY SEWER		DETAIL SHEET NUMBER
----- D -----	DRAIN	99.00	NEW GRADE IN FEET
----- RD -----	RETURN DRAIN	X (100.00)	EXISTING SPOT GRADE IN FEET
----- V -----	VENT		SURFACE DRAINAGE
----- FM -----	FORCE MAIN	[ABANDON (E)
----- L -----	LEACH LINES		BENCHMARK ELEVATION
----- RW -----	RAW WATER		CENTERLINE
----- PW -----	POTABLE WATER		DIAMETER
			SECTION / ELEVATION LETTER SHEET NUMBER

GENERAL WORK NOTES

The Contractor shall verify all controlling field dimensions and conditions before ordering or fabricating any materials.

The Contractor shall verify exact location of all underground facilities and utilities prior to start of construction.

No 90° bends allowed on drain or sewer pipe.

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						

THRUST BLOCK BEARING AREA (SQ. FT.)

Type of Fitting	90° Bend	45° Bend	11 1/4" or 22 1/2" Bend	Tee or Dead End	Tee w/ Plug	Cross w/ Plug
4"	2	1	1	2	2	2
6"	4	4	2	4	4	4
8"	7	4	2	5	7	7
10"	12	6	3	8	12	12
12"	16	10	5	12	16	16
14"	20	12	6	14	20	20
16"	27	15	8	18	27	27
18"	45	25	13	32	45	45
24"	65	35	18	46	65	65

PIPE FITTINGS AND VALVES

	CAP, THREADED
	ELBOW, TURNED DOWN
	FLEXIBLE CONNECTOR
	REDUCED PRESSURE BACKFLOW PREVENTER
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	PRESSURE GAUGE (WITH VALVE AND SNUBBER)
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, CHECK
	VALVE, GATE
	VALVE, SAFETY RELIEF
	VALVE, SOLENOID
	VALVE, PRESSURE REDUCING
	WATER / FLOW METER

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08/09/2013 DATE
 9-16-13 PLANS APPROVAL DATE
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Reviewed by:
 FRANCIS SOLICH
 Approval date: 09-11-13

THIS DRAWING ACCURATE FOR WATER WORK ONLY

DESIGN BY Andy Quan CHECKED Don Hansen DETAILS BY Andy Quan CHECKED Don Hansen QUANTITIES BY Andy Quan CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 640004R/L POST MILE R107.3	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION NOTES, LEGENDS & ABBREVIATIONS	SHEET W-0 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 08-14-09 10-15-09 12-17-09 02-18-10 04-15-10 09-27-10 11-19-10 01-03-12 08-09-13	SHEET OF
	TAEMWW Imperial Rev. 7/10	EA 06840	x 0.0.dgn	PRINTED ON: 18-SEP-2013 13:12	

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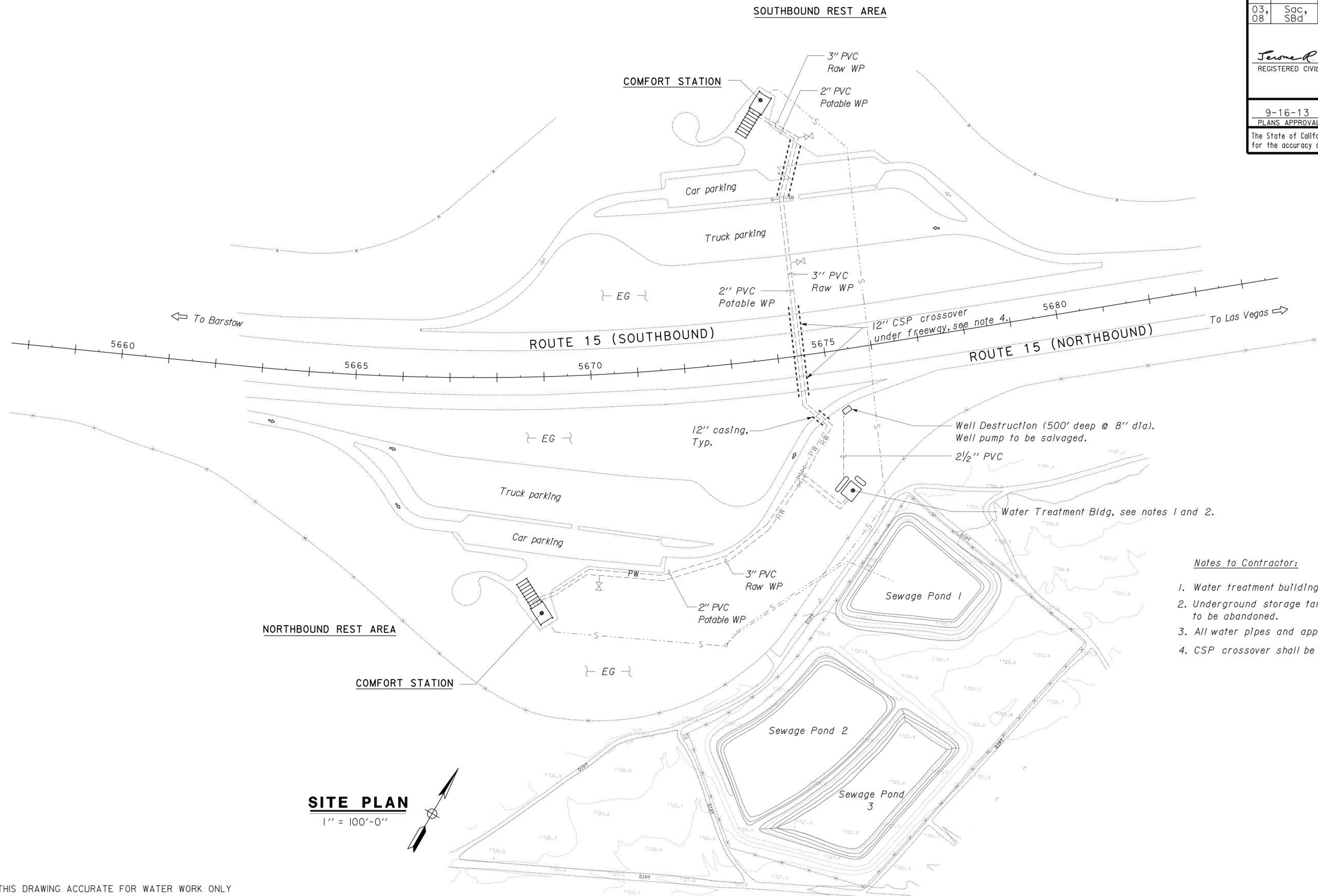
<i>Jerome R. Marcotte</i>	08/09/2013	REGISTERED CIVIL ENGINEER	DATE
9-16-13			
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FRANCIS SOLICH
Approval date: 09-11-13



- Notes to Contractor:**
1. Water treatment building equipment to be removed.
 2. Underground storage tanks 2,000-gal and 12,000-gal to be abandoned.
 3. All water pipes and appurtenances shall be abandoned.
 4. CSP crossover shall be abandoned.

SITE PLAN
1" = 100'-0"

THIS DRAWING ACCURATE FOR WATER WORK ONLY

 DESIGN SUPERVISOR DESIGN ENGINEER	DESIGN	BY Andy Quan	CHECKED Don Hansen
	DETAILS	BY J.R. Stangl/AQ	CHECKED Don Hansen
	QUANTITIES	BY Andy Quan	CHECKED Don Hansen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 640004R/L
POST MILE R107.3

C. V. KANE
SAFETY ROADSIDE REST AREA REHABILITATION
EXISTING SITE PLAN

SHEET **W-1** OF

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT PROJECT NUMBER & PHASE 3616 08000002291

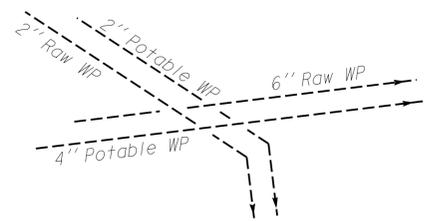
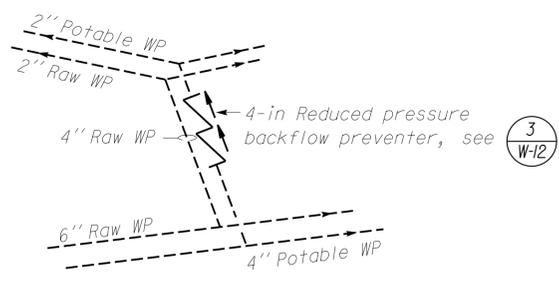
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
→	08-14-09 10-15-09 12-17-09 02-18-10 04-15-10 06-17-10 11-19-10 01-03-12 08-09-13	

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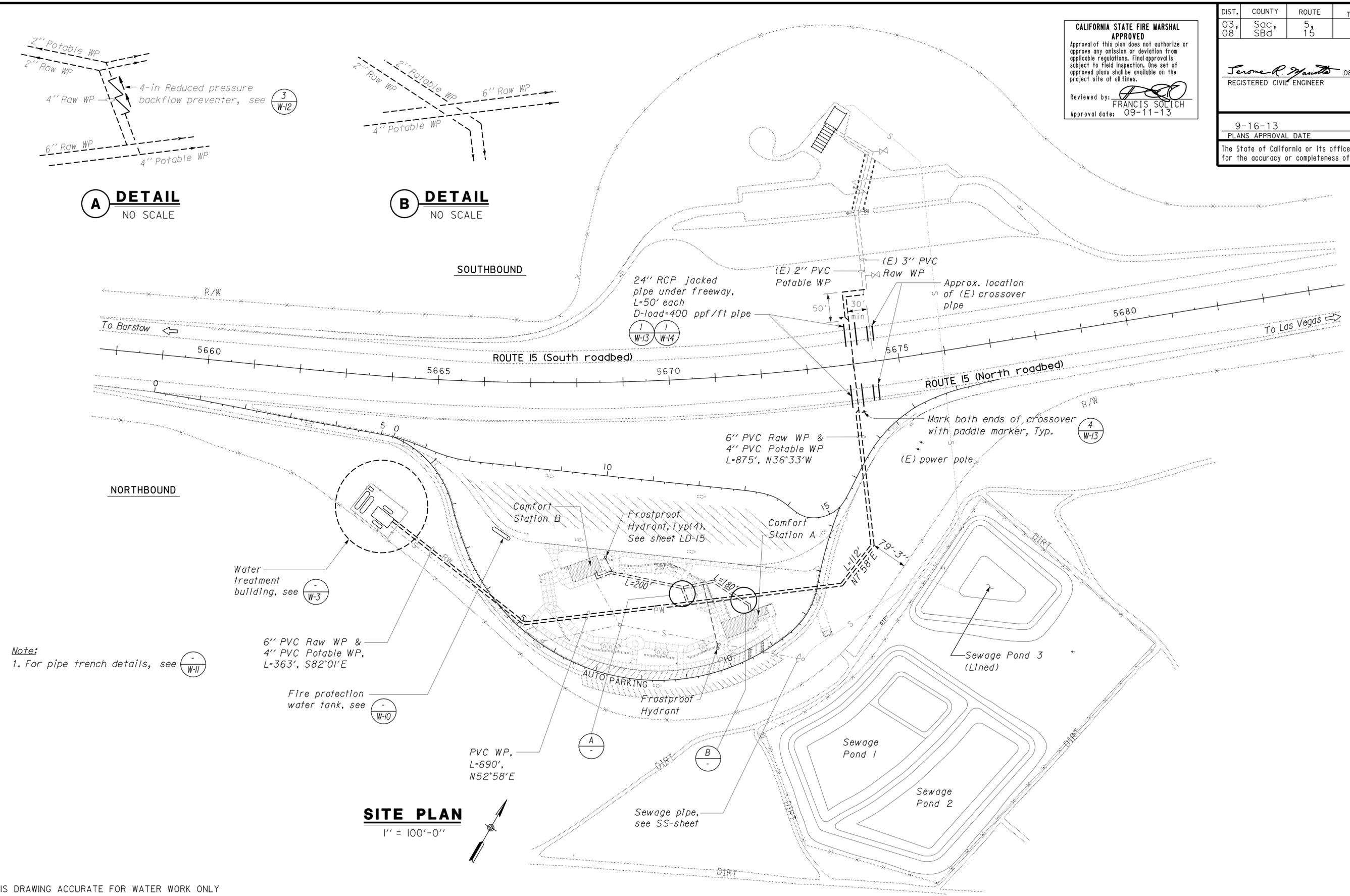
<i>Jerome R. Marcotte</i> 08/09/2013 REGISTERED CIVIL ENGINEER DATE		
Reviewed by: <i>Francis Sotich</i> Approval date: 09-11-13		
9-16-13 PLANS APPROVAL DATE		

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A **DETAIL**
NO SCALE

B **DETAIL**
NO SCALE



SITE PLAN
1" = 100'-0"

Note:
1. For pipe trench details, see W-11

THIS DRAWING ACCURATE FOR WATER WORK ONLY

DESIGN BY Andy Quan CHECKED Don Hansen DETAILS BY J.R.Stangl / A.Q. CHECKED Don Hansen QUANTITIES BY Andy Quan CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION MODIFIED SITE PLAN	SHEET W-2 OF
			640004R/L POST MILE R107.3		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 08-14-09 10-15-09 12-17-09 02-18-10 04-15-10 10-25-10 11-19-10 01-03-12 08-09-13		

TAEMWW Imperial Rev. 7/10

EA 06840

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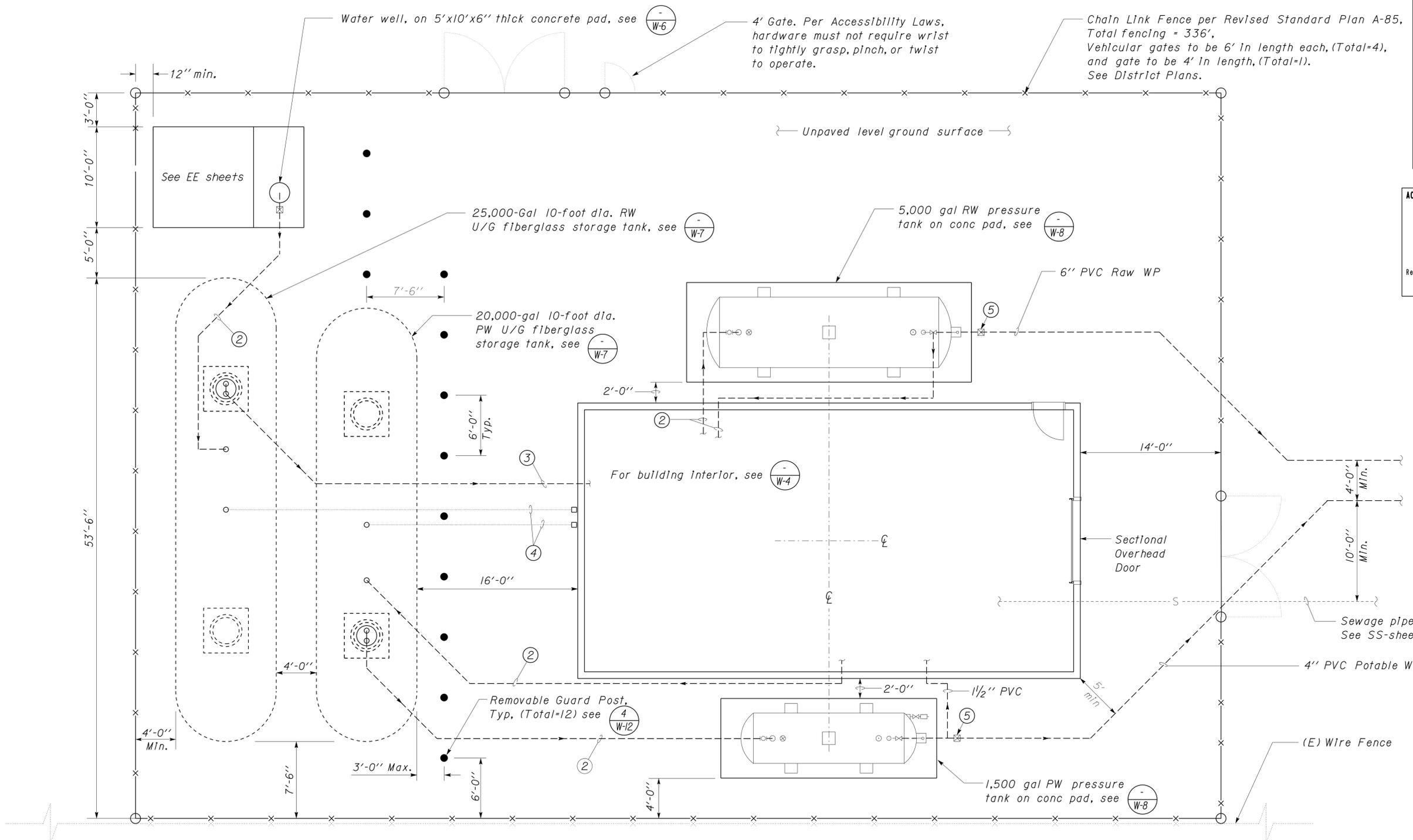


ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID: **080000229**
 Reviewed by: [Signature]
 Date: 10-25-11

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Accessibility Note:
 Pressure tanks may be accessed from either longitudinal sides for maintenance purpose. The 2'-0" narrow passageways between the bldg and tanks are not to be considered as the access side, thus exempted from accessibility requirement.

- Notes:**
- ① See (W-11) for pipe trench details
 - ② 2" PVC WP
 - ③ 3" PVC WP
 - ④ Vent Pipe (W-12)
 - ⑤ Flow meter (W-12)



LAYOUT
 3/16" = 1'-0"
 [North Arrow]

THIS DRAWING ACCURATE FOR WATER WORK ONLY

DESIGN BY Andy Quan CHECKED Don Hansen	DETAILS BY Kerry Geoffroy CHECKED Don Hansen	QUANTITIES BY Andy Quan CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 640004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET W-3
					POST MILE R107.3		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT PROJECT NUMBER & PHASE 3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES		
TAEMWW Imperial Rev. 7/10				REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF

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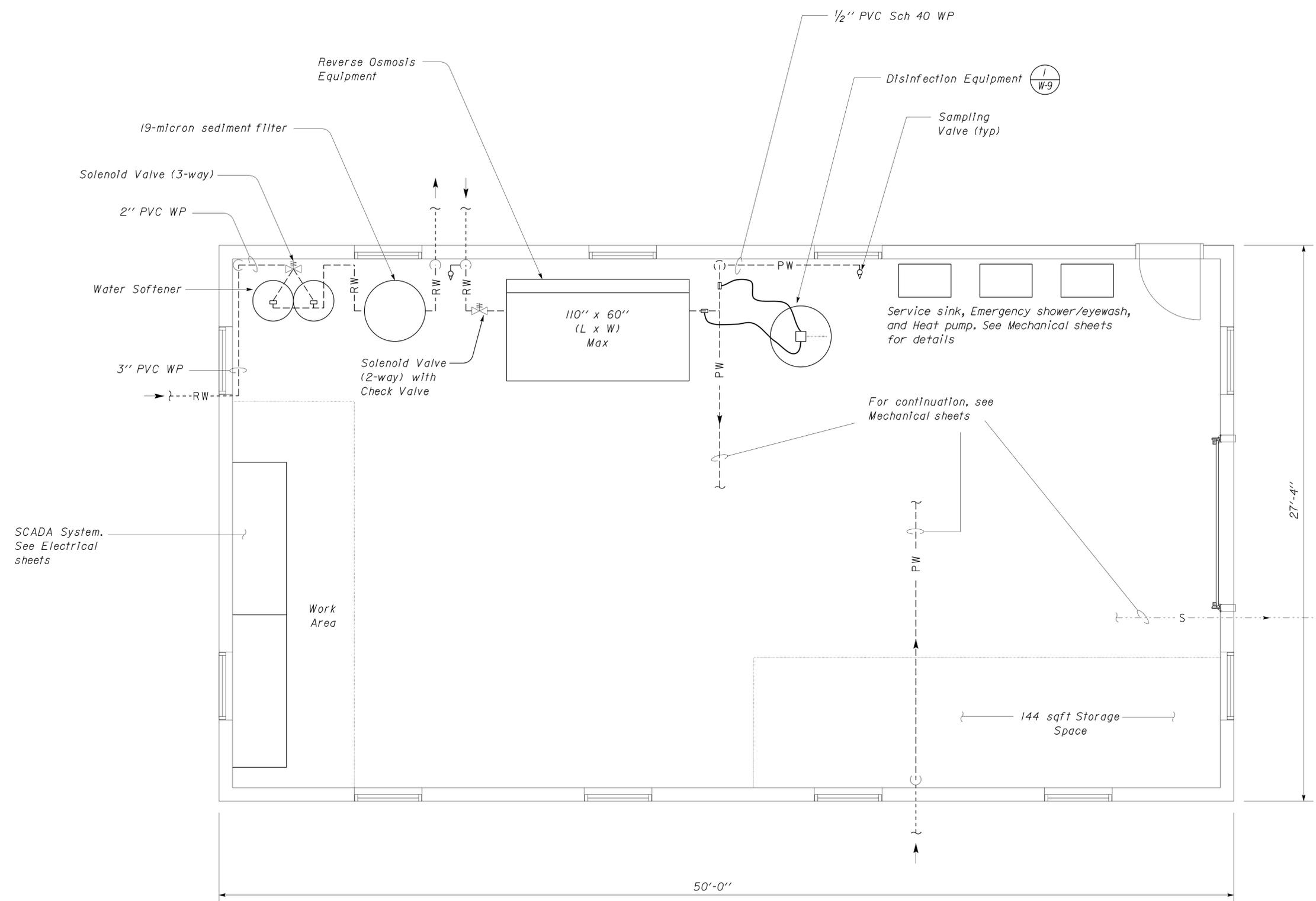
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LAYOUT
3/8" = 1'-0"



- Notes:**
1. Allow 4 feet clearance on east and west side of reverse osmosis unit.
 2. Allow all equipment to have 2 feet min. clearance from wall. Pipes are exempted from this requirement.
 3. For service sink, shower, and eyewash, see Mechanical sheets.

THIS DRAWING ACCURATE FOR WATER WORK ONLY

DESIGN	BY	Andy Quan	CHECKED	Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	C. V. KANE		SHEET
	DETAILS	BY	Kerry Geoffroy	CHECKED			Don Hansen	640004R/L	SAFETY ROADSIDE REST AREA REHABILITATION	
QUANTITIES	BY	Andy Quan	CHECKED	Don Hansen			POST MILE	WATER TREATMENT BUILDING INTERIOR LAYOUT		OF
					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	R107.3			
TAEMWW Imperial Rev. 7/10					UNIT PROJECT NUMBER & PHASE	3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		
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03, 08	Sac, Sbd	5, 15	23.3, R107.3	308	330

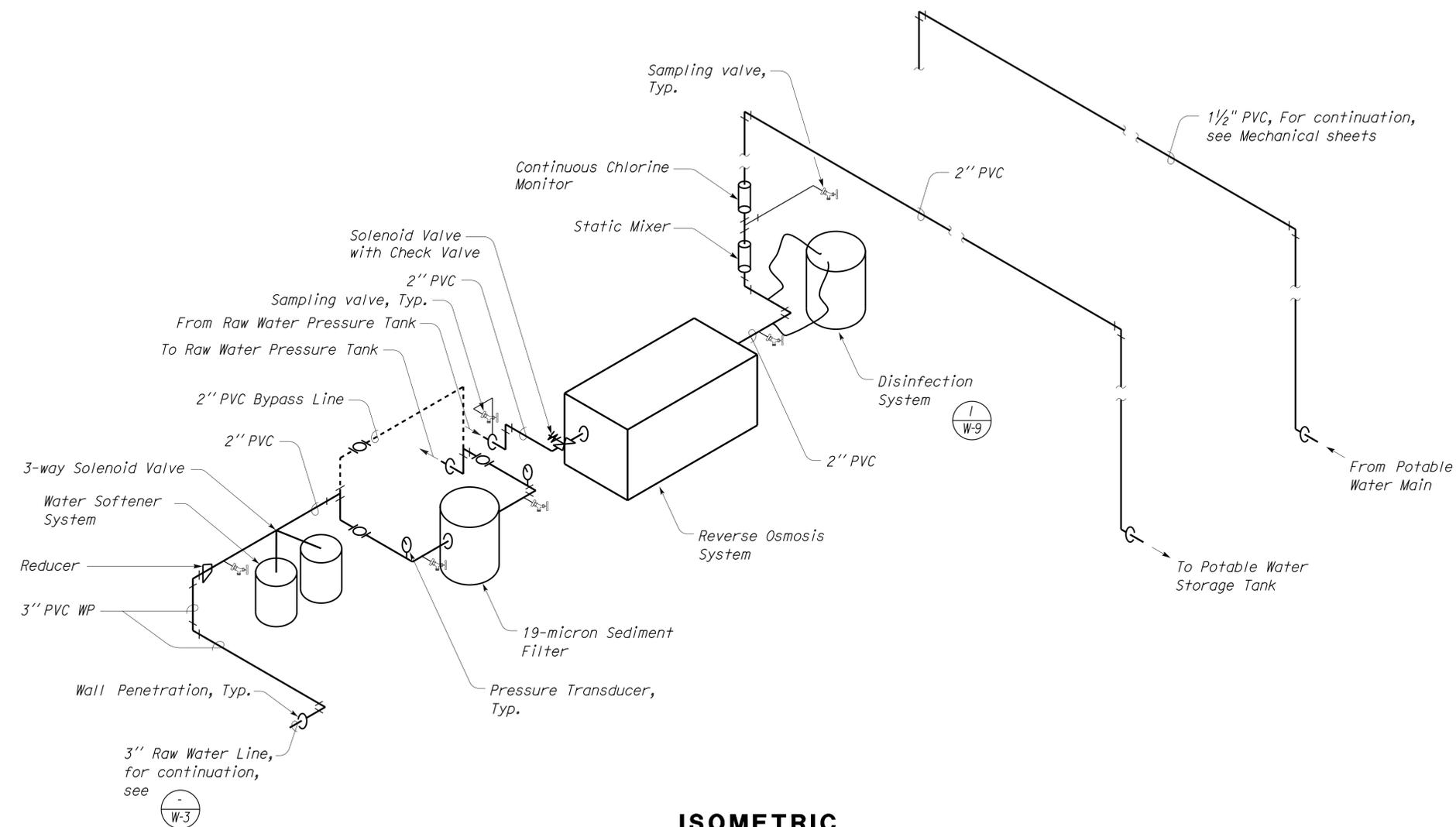
Jerome R. Marcotte 08/09/2013
REGISTERED CIVIL ENGINEER DATE

9-16-13
PLANS APPROVAL DATE

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Reviewed by: *Francis Solich*
Approval date: 09-11-13



ISOMETRIC
No Scale

Note:
All component connections to pipes must have unions on inlet and outlet sides.

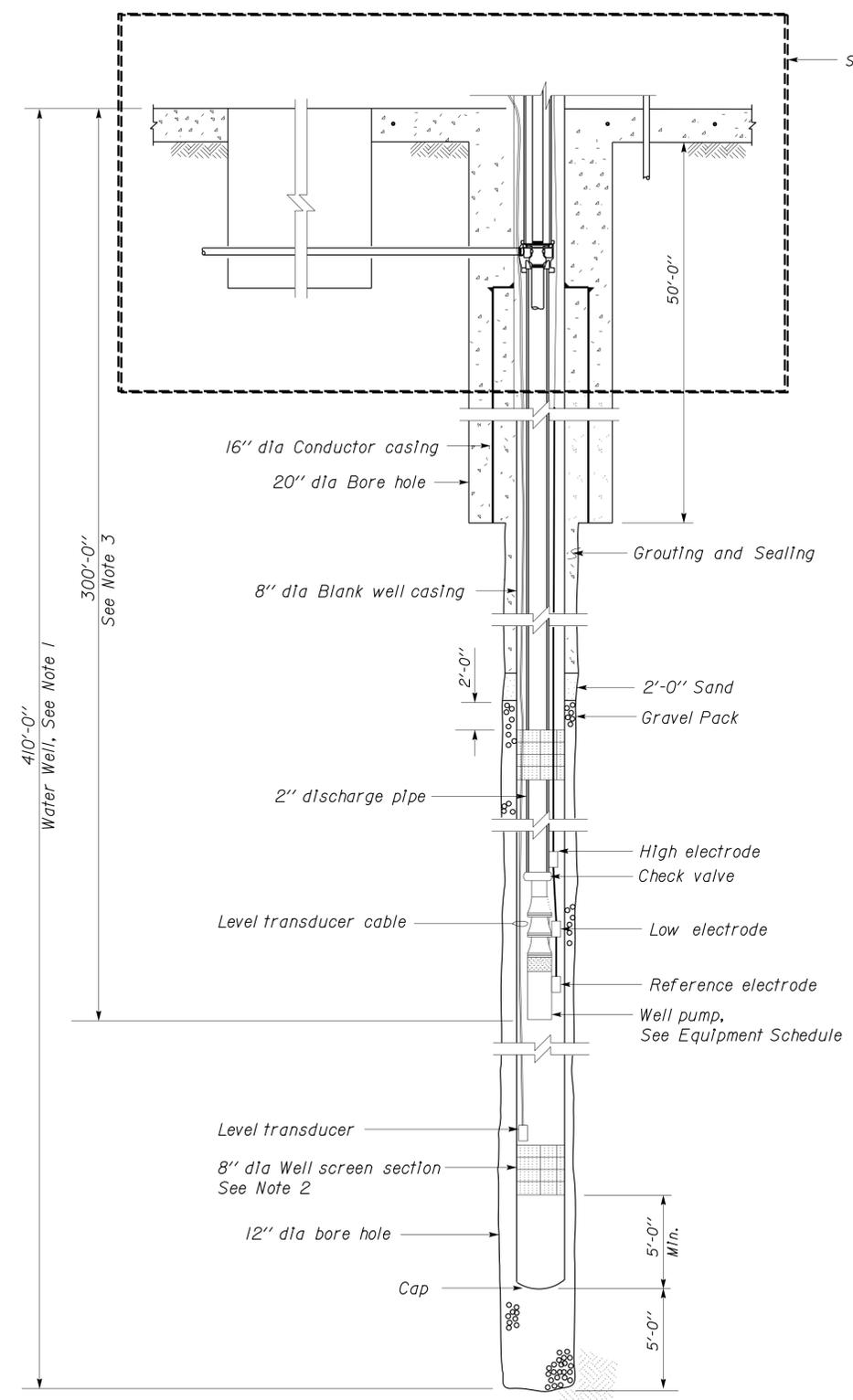
THIS DRAWING ACCURATE FOR WATER WORK ONLY

DESIGN BY Andy Quan CHECKED Don Hansen DETAILS BY Kerry Geoffroy CHECKED Don Hansen QUANTITIES BY Andy Quan CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 640004R/L POST MILE R107.3	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION WATER TREATMENT PIPE SCHEMATICS	SHEET W-5 OF	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 02-16-10 04-15-10 07-25-10 11-19-10 01-08-11 08-13-11 08-09-13	SHEET OF	PRINTED ON: 18-SEP-2013 13:12 w_05.dgn
	TAEMWW Imperial Rev. 7/10	EA 06840	EA 06840	EA 06840	EA 06840	EA 06840

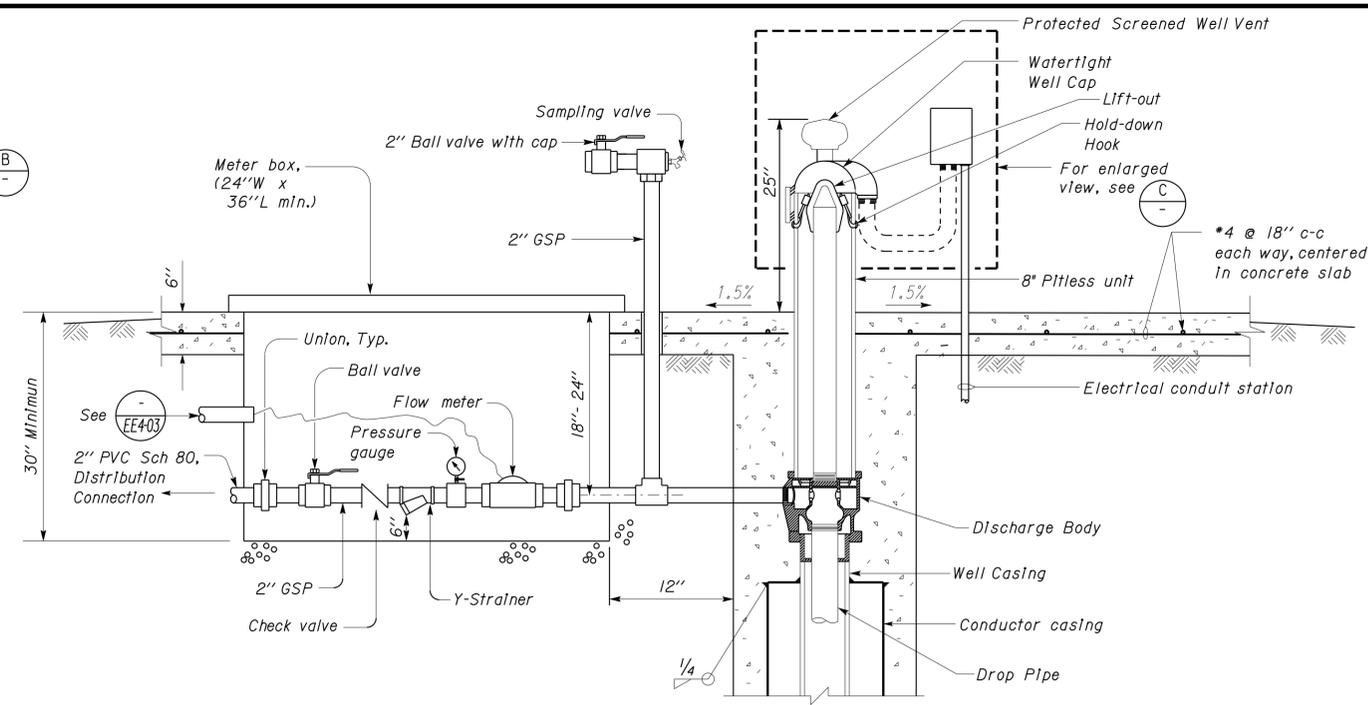
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, Sbd	5, 15	23.3 R107.3	309	330

<i>Terone R. Hants</i> REGISTERED CIVIL ENGINEER DATE 08/09/2013		REGISTERED PROFESSIONAL ENGINEER J. MARCOTTE No. C 36844 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA
PLANS APPROVAL DATE 9-16-13		

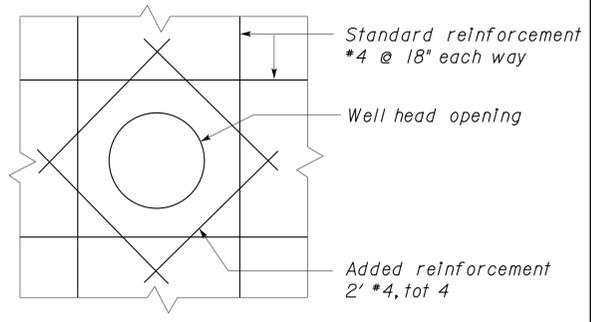
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A WATER WELL - SECTION



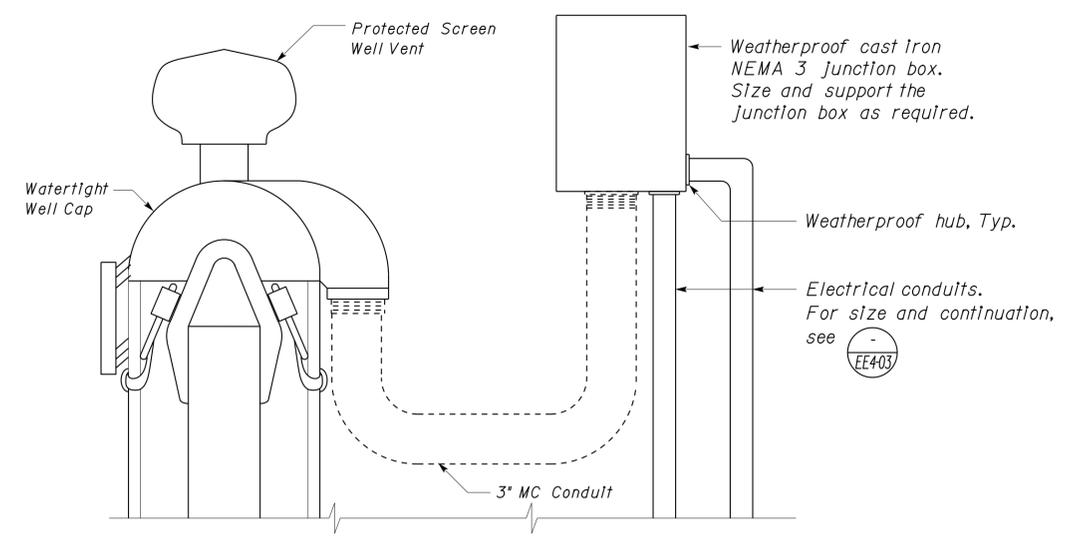
B WELL HEAD
SCALE 1" : 1'-0"



WELL OPENING REINFORCEMENT
NO SCALE

EQUIPMENT SCHEDULE						
EQUIPMENT	SPEED (RPM)	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (Ft.)
SUBMERSIBLE WELL PUMP	3450	10	460	3	50	480
					70	400
					90	290

- Notes:**
- Actual depth of well may vary. For bidding purposes, use depth shown.
 - Exact locations and lengths of well screen sections must be field determined. For bidding purposes use 100' ft.
 - Actual depth of well pump must be determined from well testing data. For bidding purposes, use depth shown.
 - Electrodes & level transducer locations shown are arbitrary only. Exact locations to be determined by well pump installer and the Engineer.



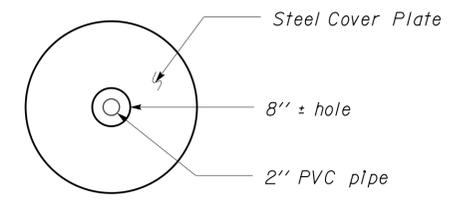
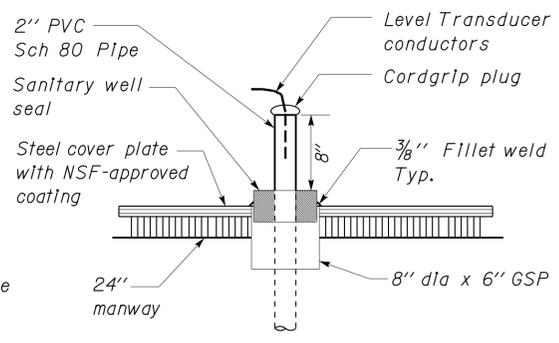
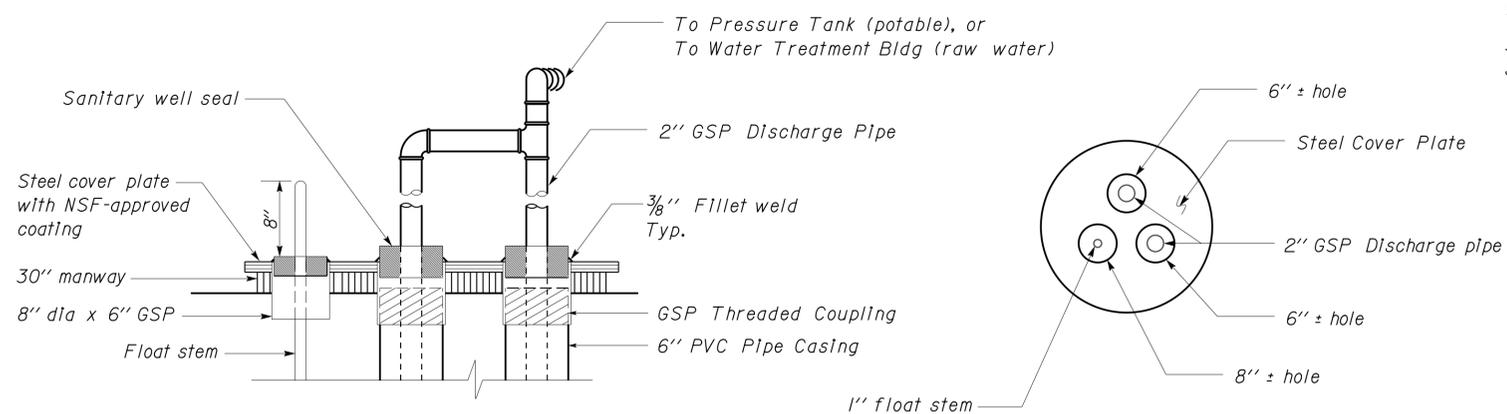
C ENLARGED VIEW
NO SCALE

CALIFORNIA STATE FIRE MARSHAL APPROVED
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FRANCIS SOLICH
Approval date: 09-11-13

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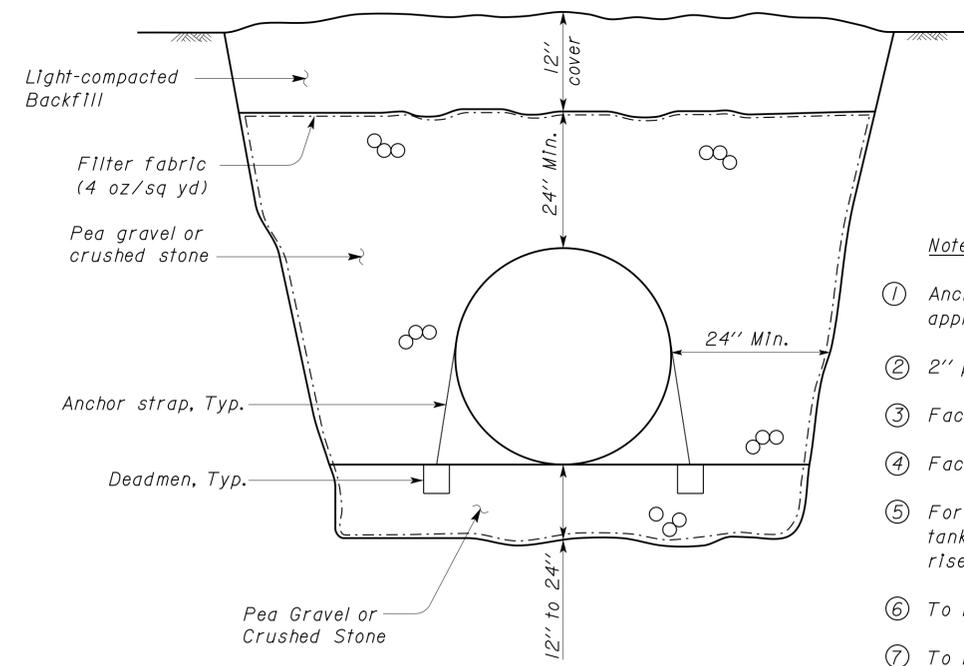
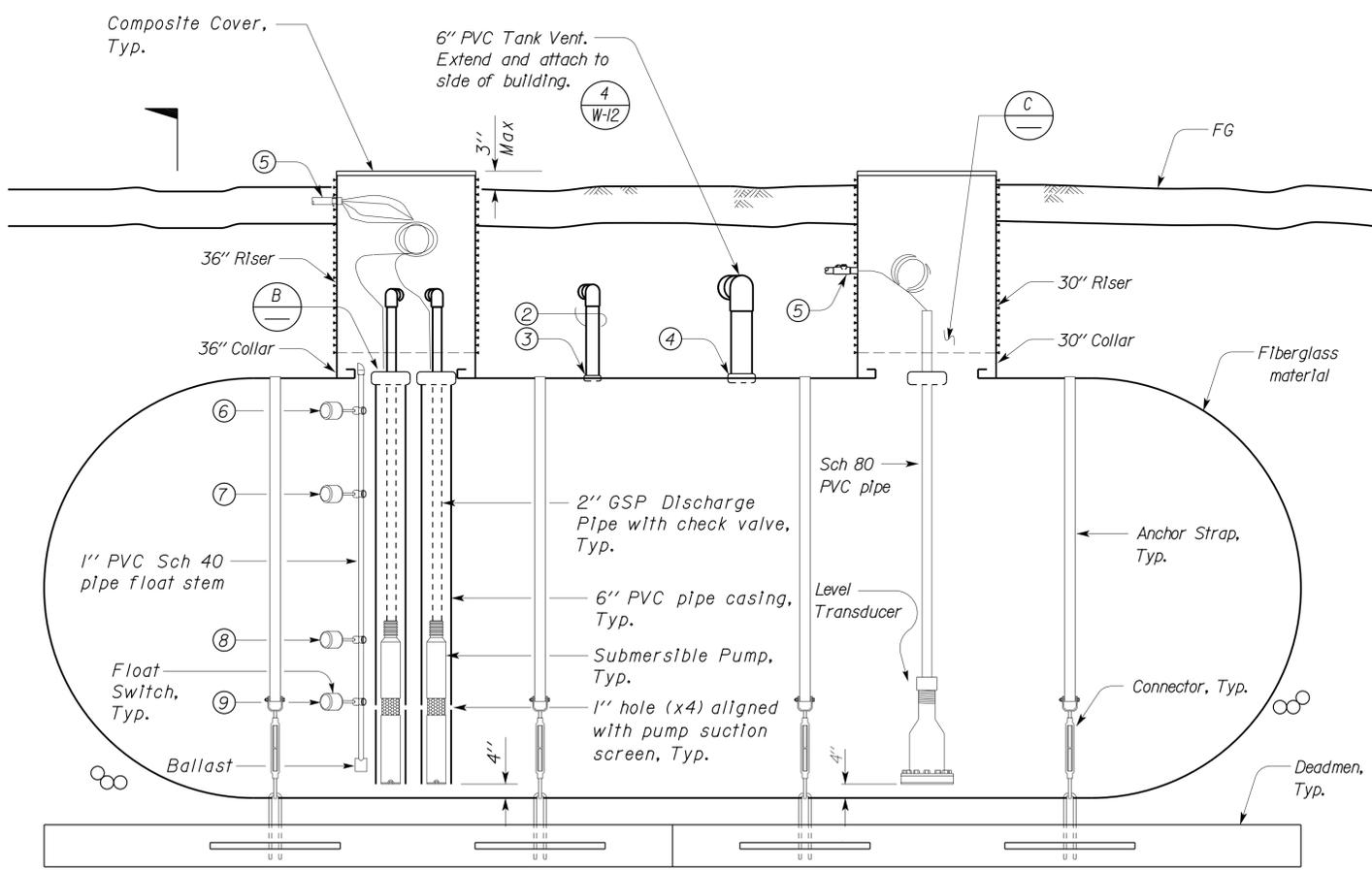
DESIGN BY Don Hansen CHECKED Don Hansen	BY Kerry Geoffroy/J.R. Stangl CHECKED Don Hansen	BY Andy Quan CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 640004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET W-6	
					POST MILE R107.3			WATER WELL DETAILS
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT PROJECT NUMBER & PHASE 3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF
TAEMWW Imperial Rev. 7/10			EA 06840	08-14-09 10-15-09 12-17-09 02-18-10 04-15-10 06-17-10 08-21-10 08-25-10 10-29-10 08-09-13				

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TANK DIAMETER	NOMINAL CAPACITY (GALLONS)	NOMINAL LENGTH	NOMINAL WEIGHT (Lbs)
Potable Tank → 10'	20,000	38'	5,900
Non-potable Tank → 10'	25,000	46'	7,550

EQUIPMENT SCHEDULE						
EQUIPMENT	SPEED (RPM)	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (FT)
SUBMERSIBLE PUMPS 1 & 2	3450	5	460	3	40	200
					50	190
					60	160
SUBMERSIBLE PUMPS 1 & 2	3450	5	460	3	40	300
					50	240
					60	160



- Notes:**
- Anchor straps, connectors, and deadmen to be approved by tank manufacturer for use with tank.
 - 2" pipe delivering water to the storage tank.
 - Factory-installed 2" half coupling
 - Factory-installed 6" half coupling
 - For electrical, see EE-sheets. Follow tank manufacturer's Instructions for riser wall openings.
 - To be located 12" below tank ceiling
 - To be located 36" below tank ceiling
 - To be located 12" above top of pump housing
 - To be located 13" above pump suction screen

THIS DRAWING ACCURATE FOR WATER WORK ONLY

DESIGN BY Andy Quan CHECKED Don Hansen DETAILS BY Andy Quan CHECKED Don Hansen QUANTITIES BY Andy Quan CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 640004R/L POST MILE R107.3	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION WATER STORAGE TANK DETAILS	SHEET W-7 OF	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 08-14-09 10-15-09 12-17-09 02-18-10 04-15-10 06-17-10 07-19-10 08-03-13	SHEET OF	PRINTED ON: 08-OCT-2013 11:59
	TAEMWW Imperial Rev. 7/10	EA 06840	w_07.dgn	08-14-09 10-15-09 12-17-09 02-18-10 04-15-10 06-17-10 07-19-10 08-03-13	SHEET OF	08-14-09 10-15-09 12-17-09 02-18-10 04-15-10 06-17-10 07-19-10 08-03-13

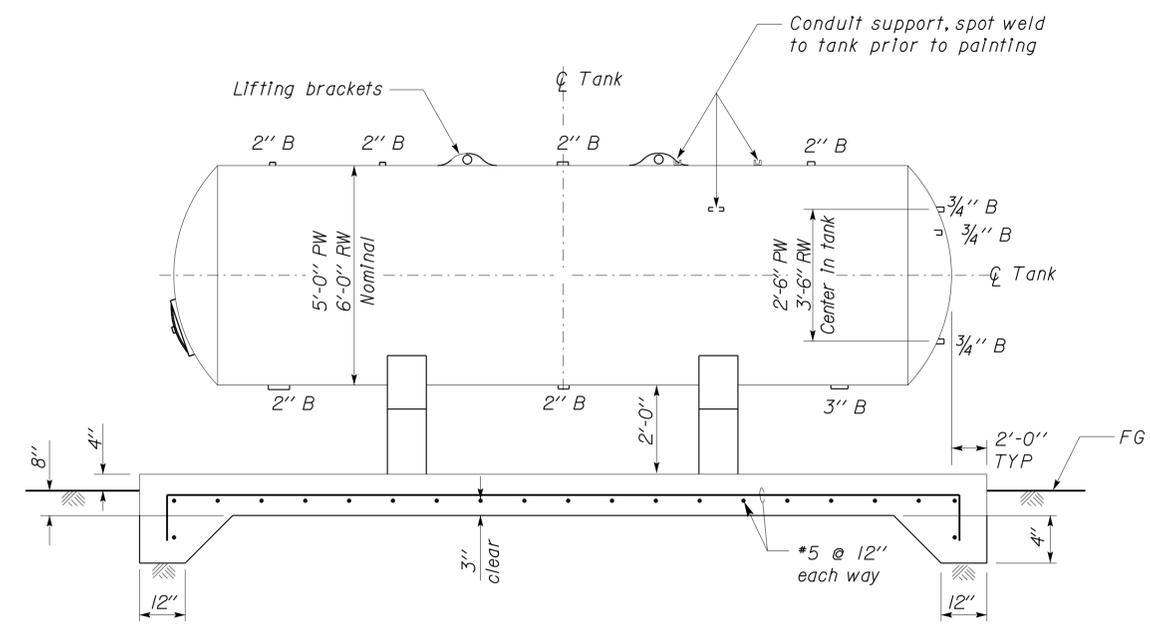
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 Reviewed by: *[Signature]*
FRANCIS SOLICH
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, Sbd	5, 15	23.3, R107.3	311	330

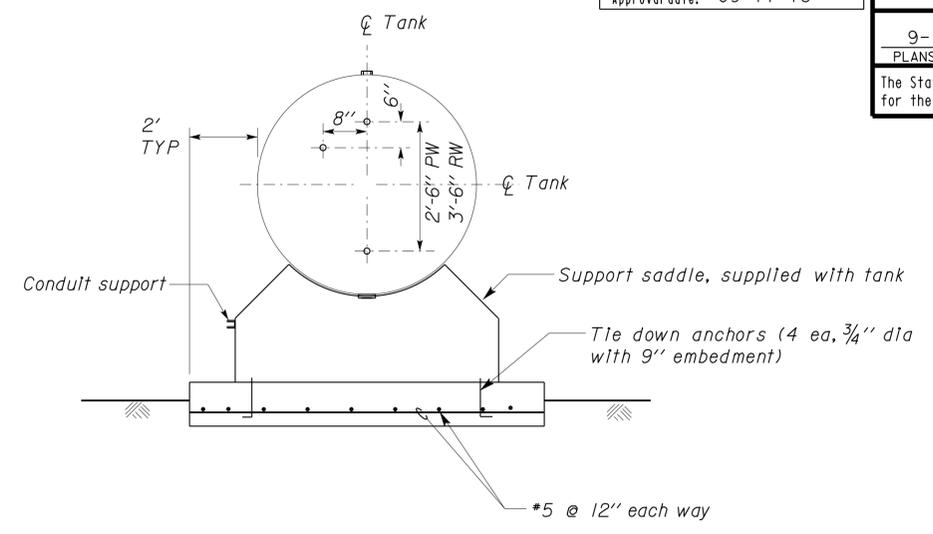
<i>[Signature]</i>	08/09/2013
REGISTERED CIVIL ENGINEER	DATE

9-16-13
 PLANS APPROVAL DATE

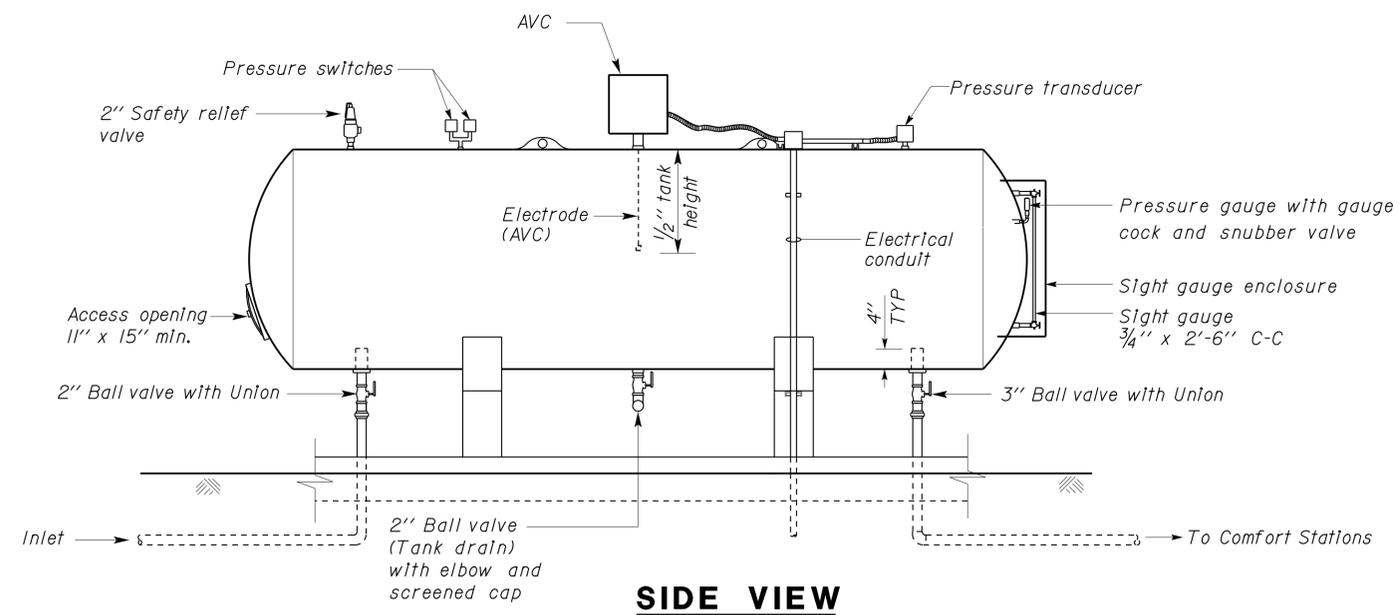
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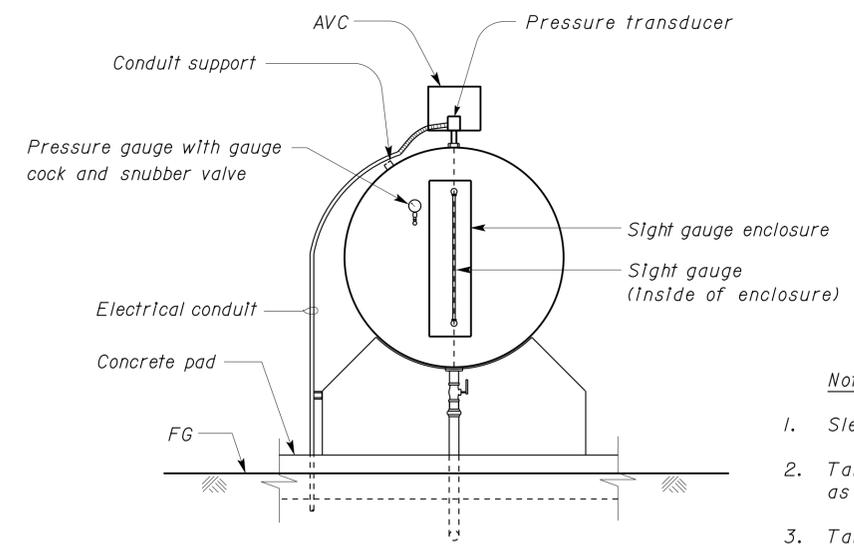
LONGITUDINAL SECTION



TRANSVERSE SECTION



SIDE VIEW



END VIEW

- Notes:**
- Sleeve all penetrations in concrete.
 - Tanks shall be painted the same color as the building exterior walls.
 - Tank saddle, tie down and foundation size may vary depending on manufacturer.
 - Reinforced concrete f'c = 3000 psi, fy = 60,000 psi.

**1,500 GALLON (PW) (NOMINAL)
 5,000 GALLON (RW) (NOMINAL)
 PRESSURE TANKS**

NO SCALE

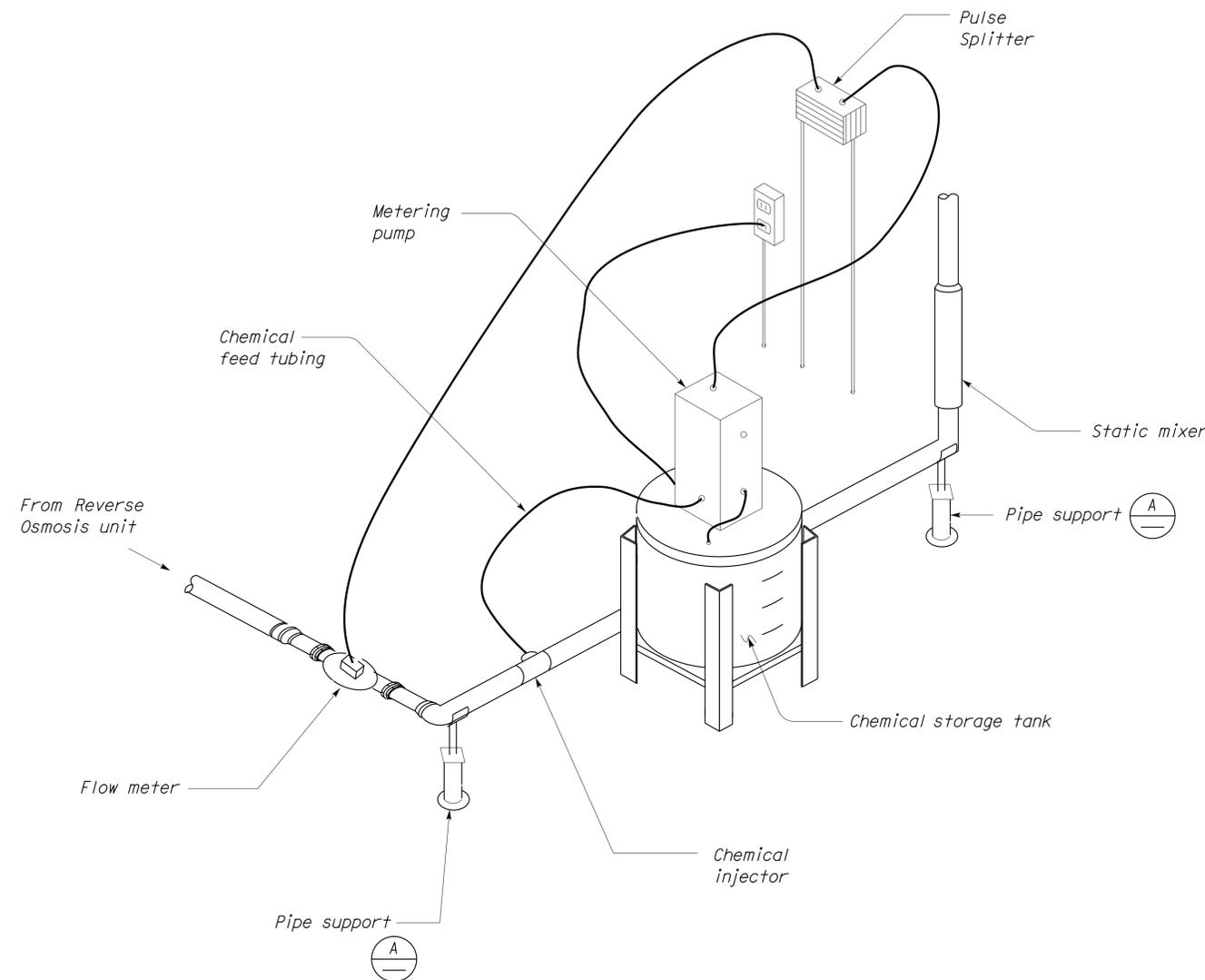
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DESIGN	BY	Andy Quan	CHECKED	Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	640004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION PRESSURE TANK DETAILS	SHEET W-8									
	DETAILS	BY	Andy Quan	CHECKED			Don Hansen	POST MILE			R107.3								
	QUANTITIES	BY	Andy Quan	CHECKED			Don Hansen	UNIT			3616	PROJECT NUMBER & PHASE	08000002291						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF							
TAEMWW Imperial Rev. 7/10					0	1	2	3	08-14-09	10-15-09	12-17-09	02-18-10	04-15-10	06-17-10	11-19-10	01-03-12	08-09-13	EA 06840	w_08.dgn

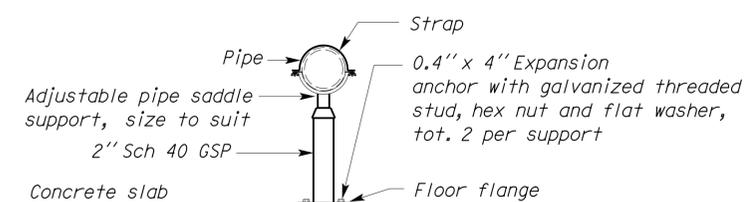
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, Sbd	5, 15	23.3, R107.3	312	330
<i>Jerome R. Marcotte</i> 08/09/2013 REGISTERED CIVIL ENGINEER DATE				REGISTERED PROFESSIONAL ENGINEER J. MARCOTTE No. C 36844 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA	
9-16-13 PLANS APPROVAL DATE					
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1 DETAIL
NO SCALE



A PIPE SUPPORT
NO SCALE

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	DETAILS	BY	Andy Quan	CHECKED			Don Hansen	640004R/L	SAFETY ROADSIDE REST AREA REHABILITATION		W-9
QUANTITIES	BY	Andy Quan	CHECKED	Don Hansen			POST MILE	DISINFECTION SYSTEM DETAILS		OF	
					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE	3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	08-14-09 10-15-09 12-17-09 12-18-10 04-15-10 06-17-10 11-19-10 01-03-12 08-09-13

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03, 08	Sac, Sbd	5, 15	23.3, R107.3	313	330

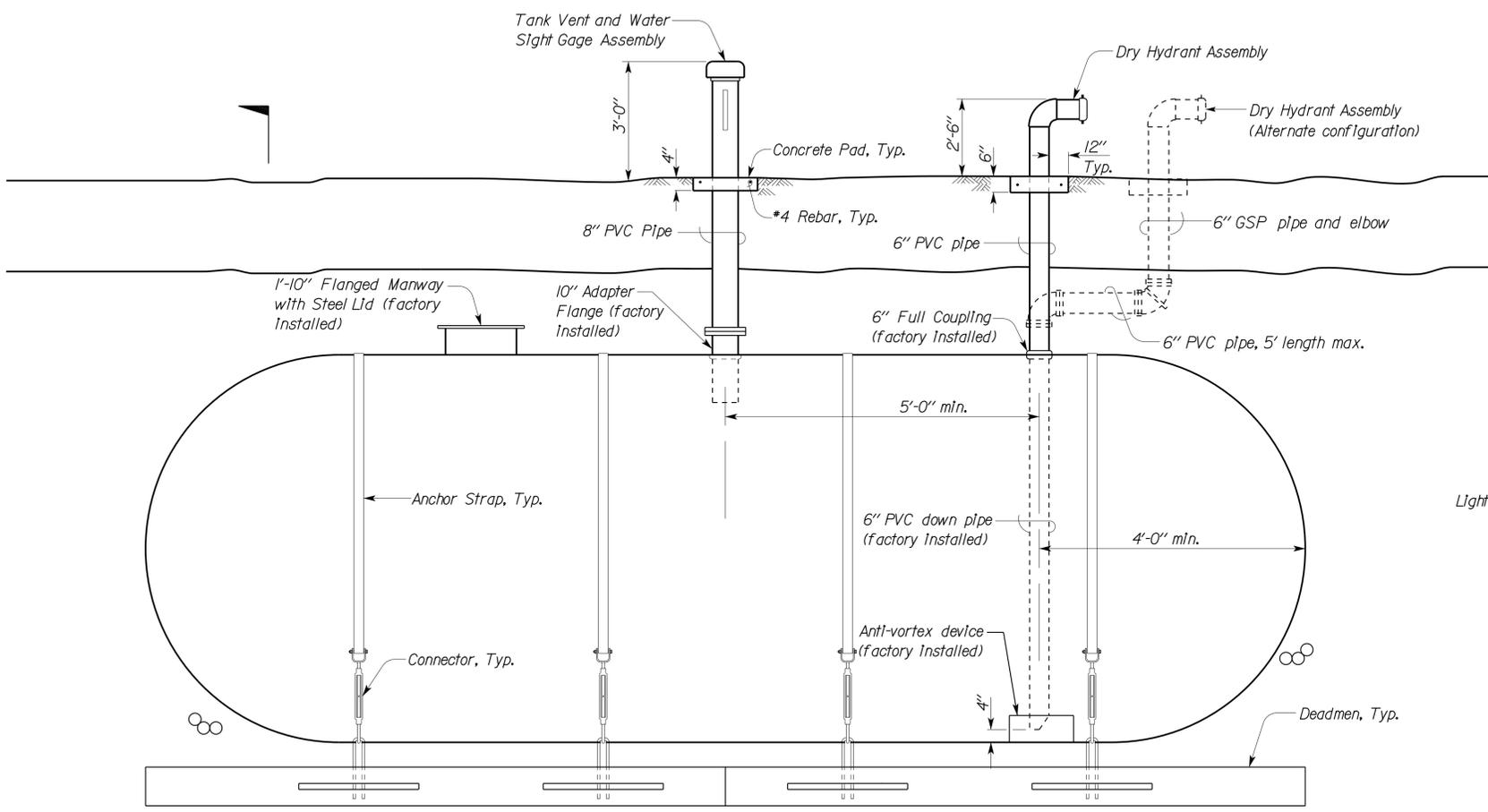
<i>Jerome R. Marcotte</i> 08/09/2013 REGISTERED CIVIL ENGINEER DATE		REGISTERED PROFESSIONAL ENGINEER J. MARCOTTE No. C 36844 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA
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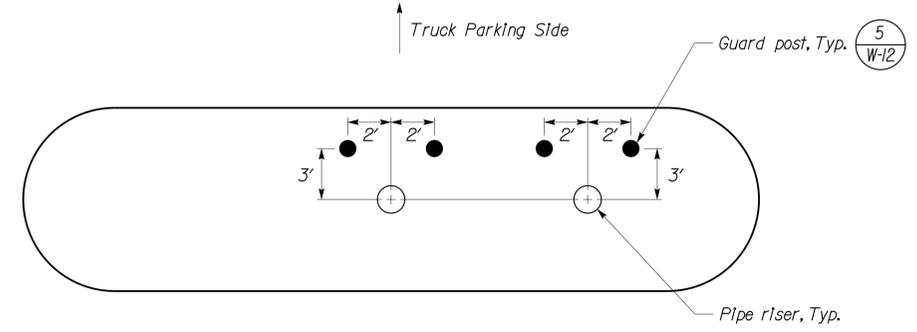
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 FRANCIS SOLICH
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TANK DIAMETER	NOMINAL CAPACITY (GALLONS)	NOMINAL LENGTH	NOMINAL WEIGHT (Lbs)
8'	12,000	37'	3,800

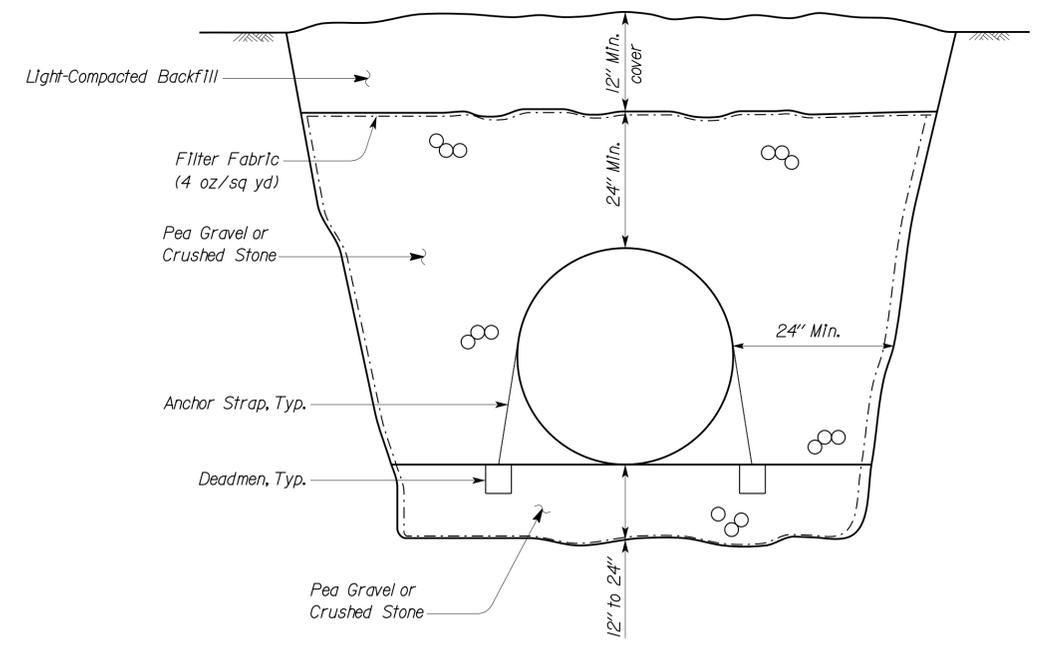
- Notes:**
- Use pipe sleeve when pipe passes through concrete pad.
 - Anchor straps, connectors, and deadmen to be approved by tank manufacturer for use with tank.
 - Fire Protection Water Tank to comply with NFPA 22 (2008 Edition)



ELEVATION
NO SCALE



GUARD POST PLACEMENT (TOP VIEW)
NO SCALE



A SECTION
NO SCALE

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DESIGN BY Andy Quan CHECKED Don Hansen DETAILS BY Andy Quan CHECKED Don Hansen QUANTITIES BY Andy Quan CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 640004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION FIRE PROTECTION WATER TANK DETAILS	SHEET W-10
			POST MILE R107.3		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF		

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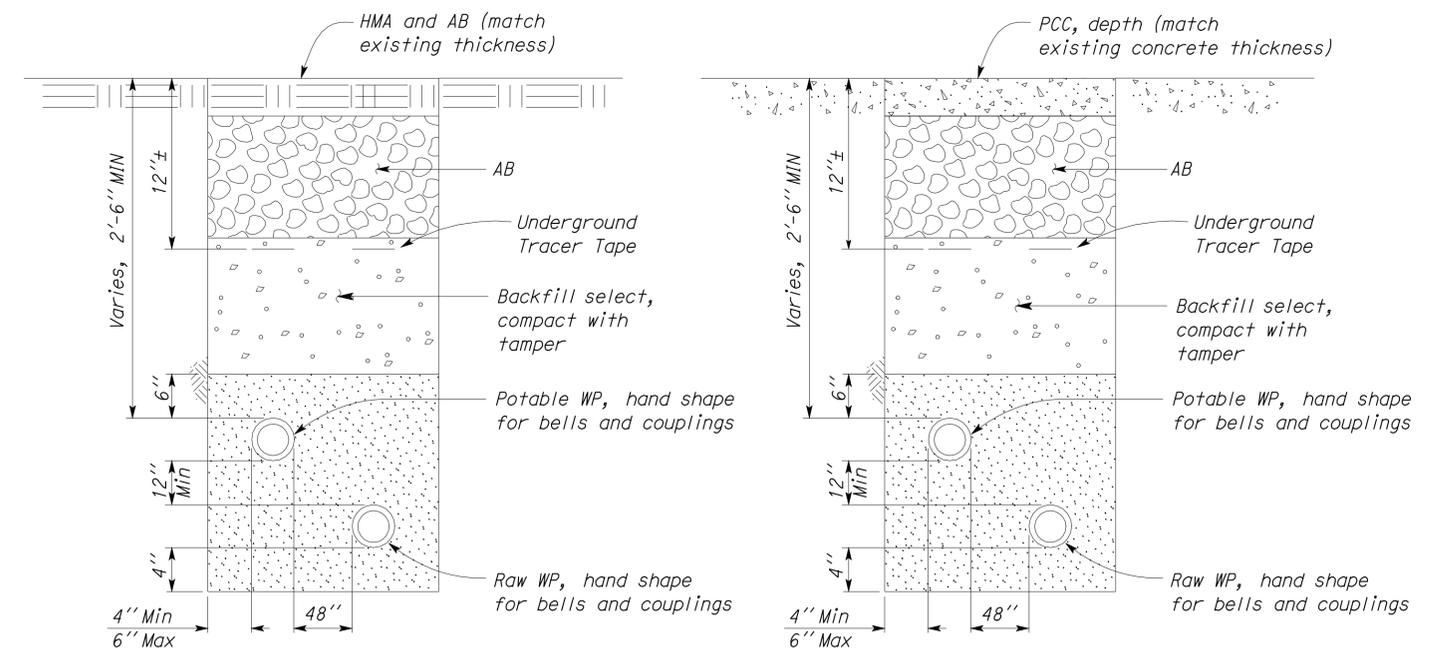
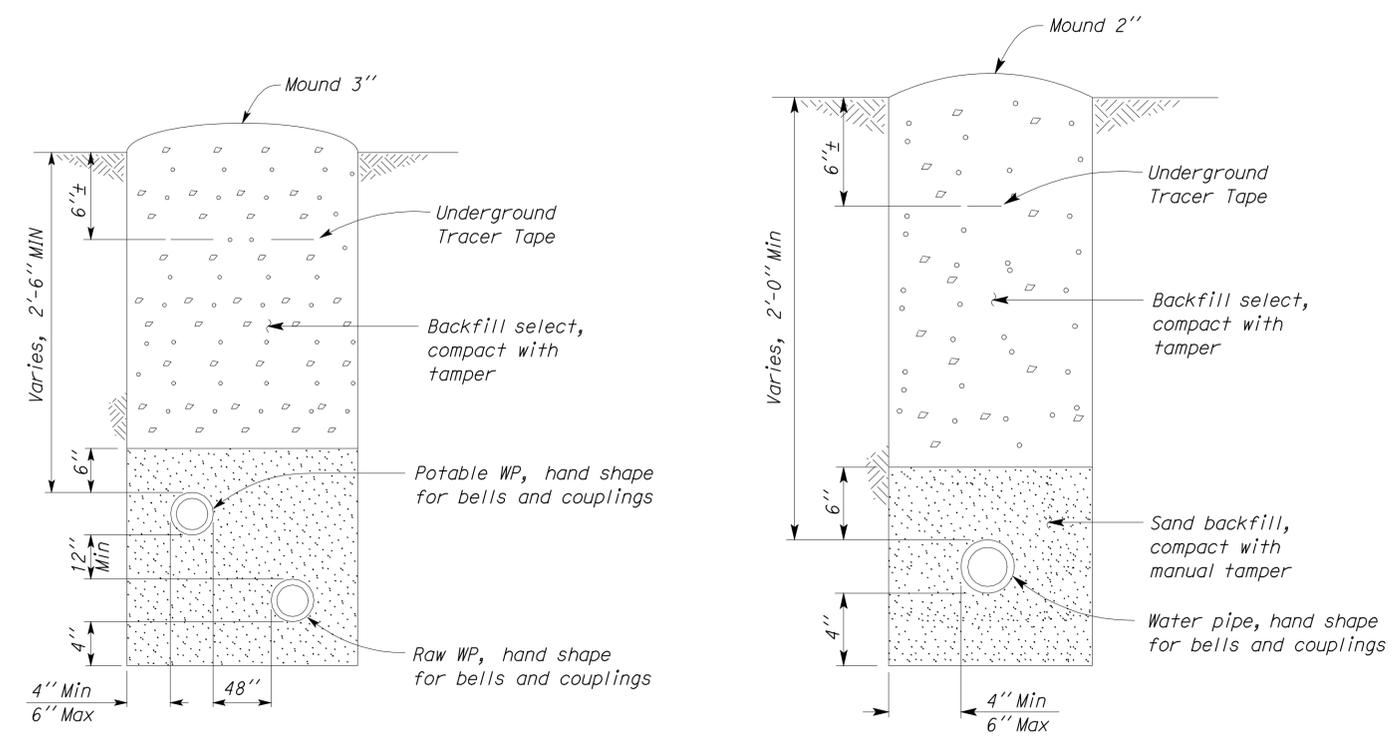
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<i>[Signature]</i>	08/09/2013
REGISTERED CIVIL ENGINEER	DATE

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WATER PIPE DETAILS

NO SCALE

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	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 08-14-09 10-15-09 12-17-09 02-18-10 04-15-10 06-17-10 11-19-10 01-03-12 08-09-13	SHEET OF	PRINTED ON: 18-SEP-2013 13:03 w_11.dgn
	TAEMWW Imperial Rev. 7/10	EA 06840	EA 06840	EA 06840	EA 06840	EA 06840

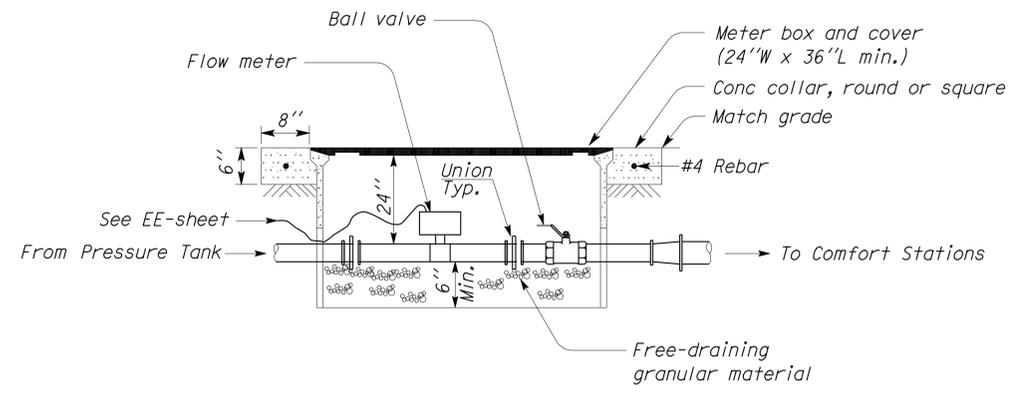
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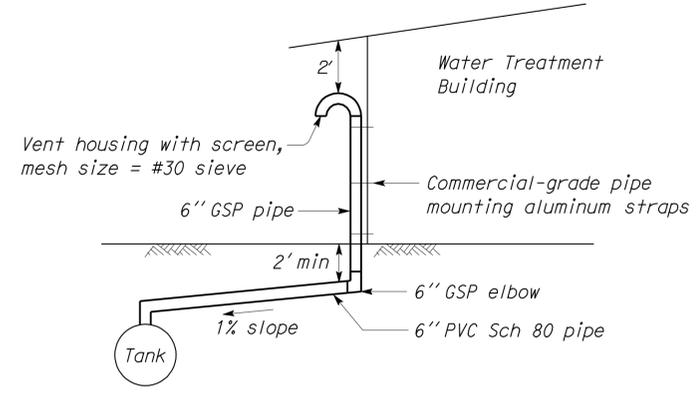
<i>[Signature]</i>	08/09/2013	REGISTERED CIVIL ENGINEER	DATE
J. MARCOTTE No. C 36844 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA			

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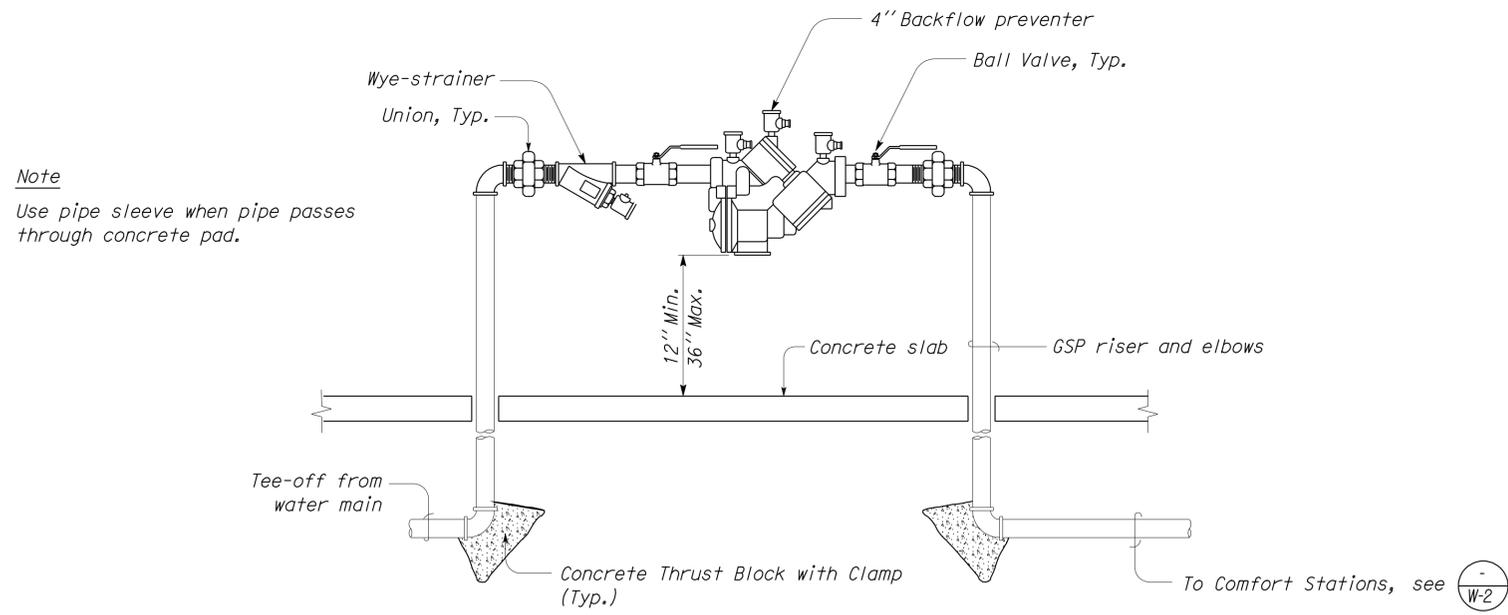
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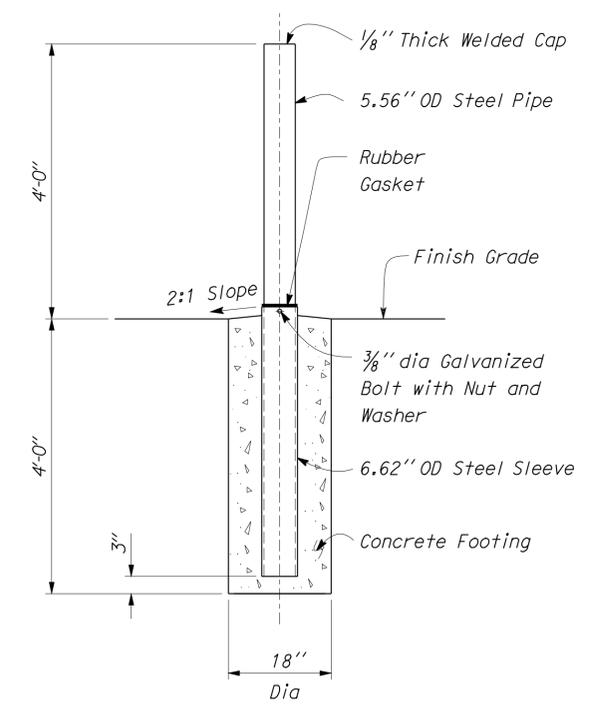
1 METER BOX DETAIL
 NO SCALE



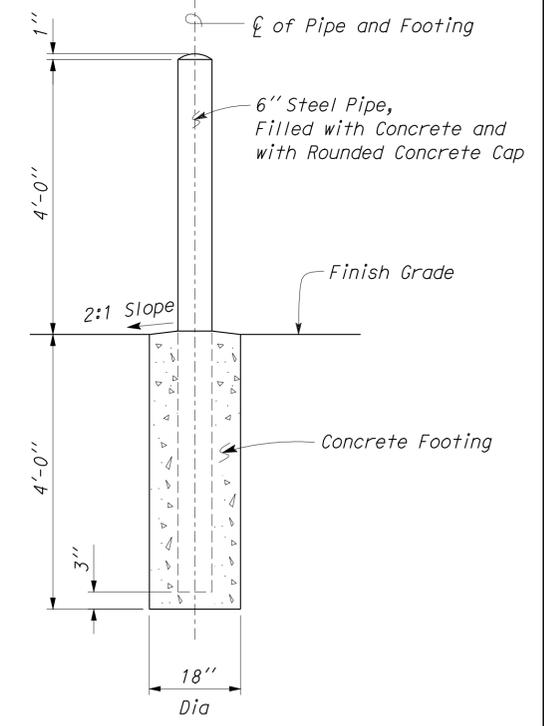
2 VENT PIPE DETAIL
 NO SCALE



3 REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY
 NO SCALE



4 GUARD POST (REMOVABLE) DETAIL
 NO SCALE



5 GUARD POST DETAIL
 NO SCALE

THIS DRAWING ACCURATE FOR WATER WORK ONLY

DESIGN	BY	Andy Quan	CHECKED	Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	640004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION DETAILS	SHEET	W-12
	DETAILS	BY	Kerry Geoffroy	CHECKED			Don Hansen	POST MILE		R107.3	OF
QUANTITIES	BY	Andy Quan	CHECKED	Don Hansen	UNIT	3616	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	08000002291	08-14-09 10-15-09 12-17-09 02-18-10 04-15-10 10-25-10 01-03-12 08-09-13		

EA 06840

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, SBd	5, 15	23.3, R107.3	316	330

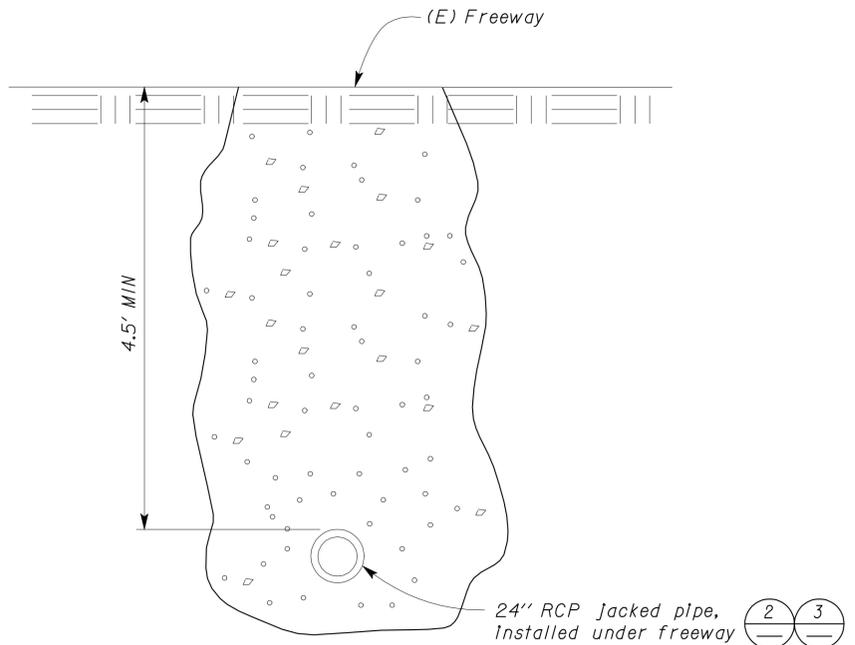
Jerome R. Marcotte 08/09/2013
 REGISTERED CIVIL ENGINEER DATE

9-16-13
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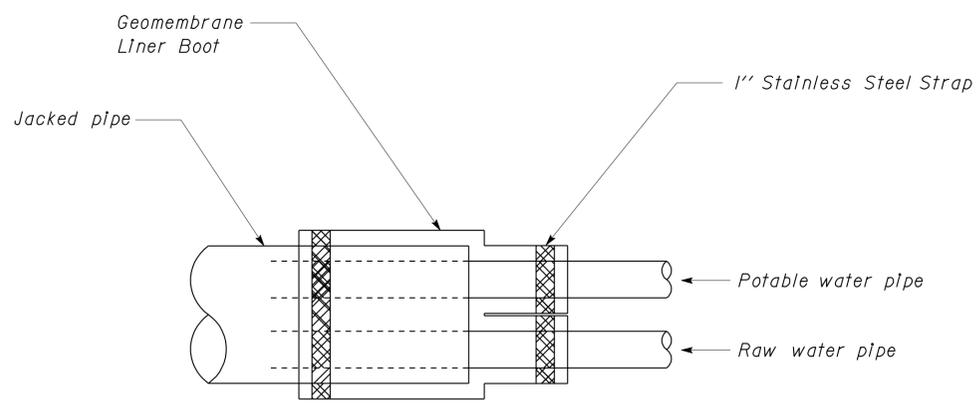
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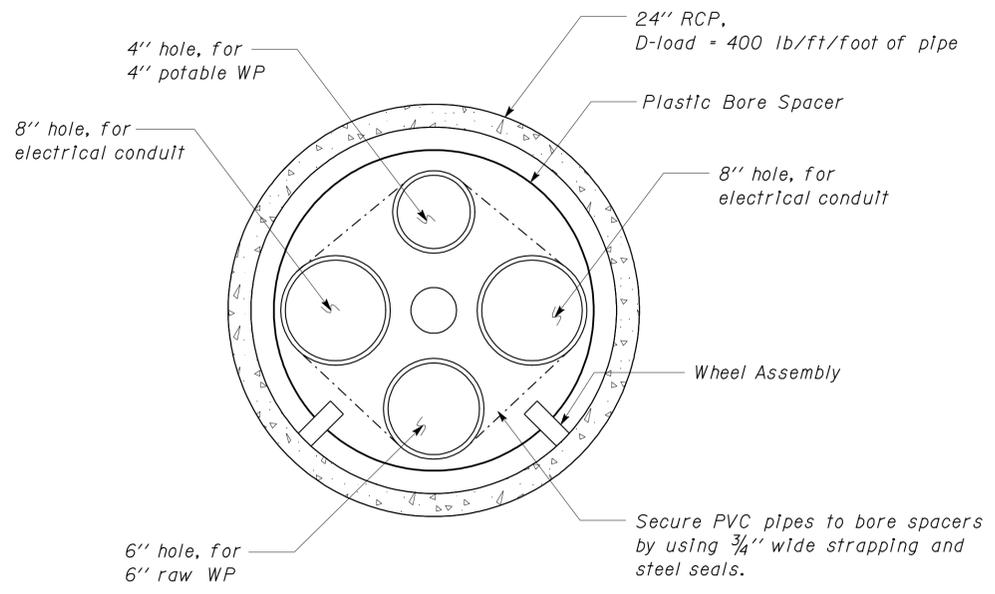
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 FRANCIS SOLICH
 Approval date: 09-11-13



1 WATER PIPE CROSSING
NO SCALE



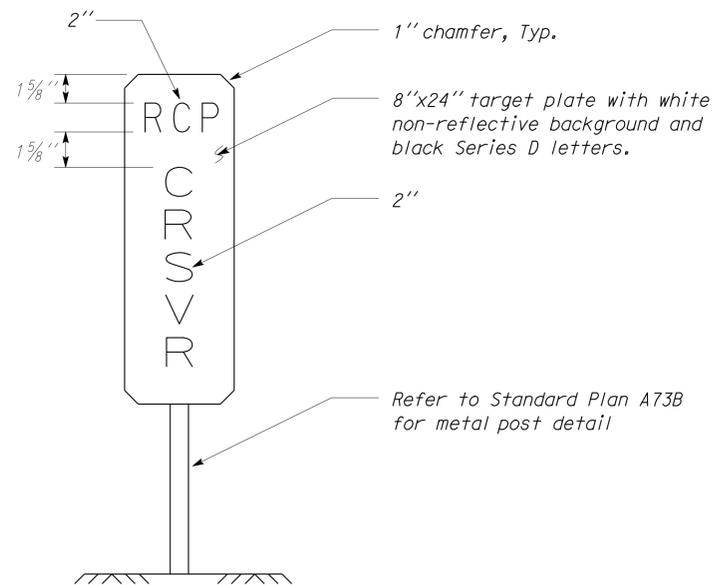
3 END SEALS
NO SCALE



2 JACKED PIPE DETAIL
NO SCALE

Note:

1. Inside jacked pipe, potable water pipe material must be PVC C900 Class 200.
2. Use 45° pipe elbows to transition water pipe from trench to jacked pipe. Bending of pipe not allowed.



4 PADDLE MARKER
NO SCALE

THIS DRAWING ACCURATE FOR WATER WORK ONLY

DESIGN	BY	Andy Quan	CHECKED	Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	640004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET W-13							
	DETAILS	BY	Andy Quan	CHECKED			Don Hansen	POST MILE			R107.3						
QUANTITIES	BY	Andy Quan	CHECKED	Don Hansen	UNIT	3616	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	08-14-09	10-15-09	12-17-09	02-18-10	04-15-10	06-17-10	11-19-10	01-03-12	08-09-13
TAEMWW Imperial Rev. 7/10					EA 06840		PROJECT NUMBER & PHASE		08000002291		w_13.dgn						

PRINTED ON: 18-SEP-2013 13:03

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, SBd	5, 15	23.3, R107.3	317	330

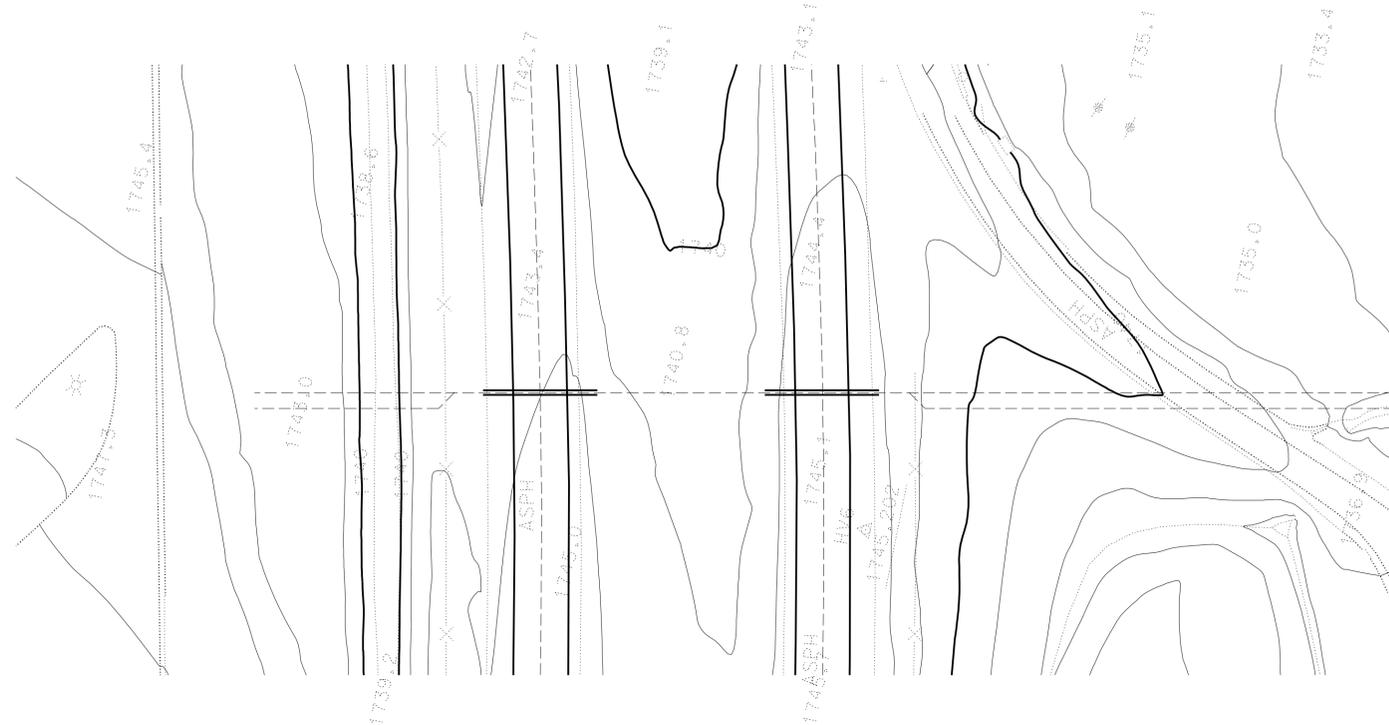
Jerome R. Marcotte
 REGISTERED CIVIL ENGINEER
 DATE 08/09/2013



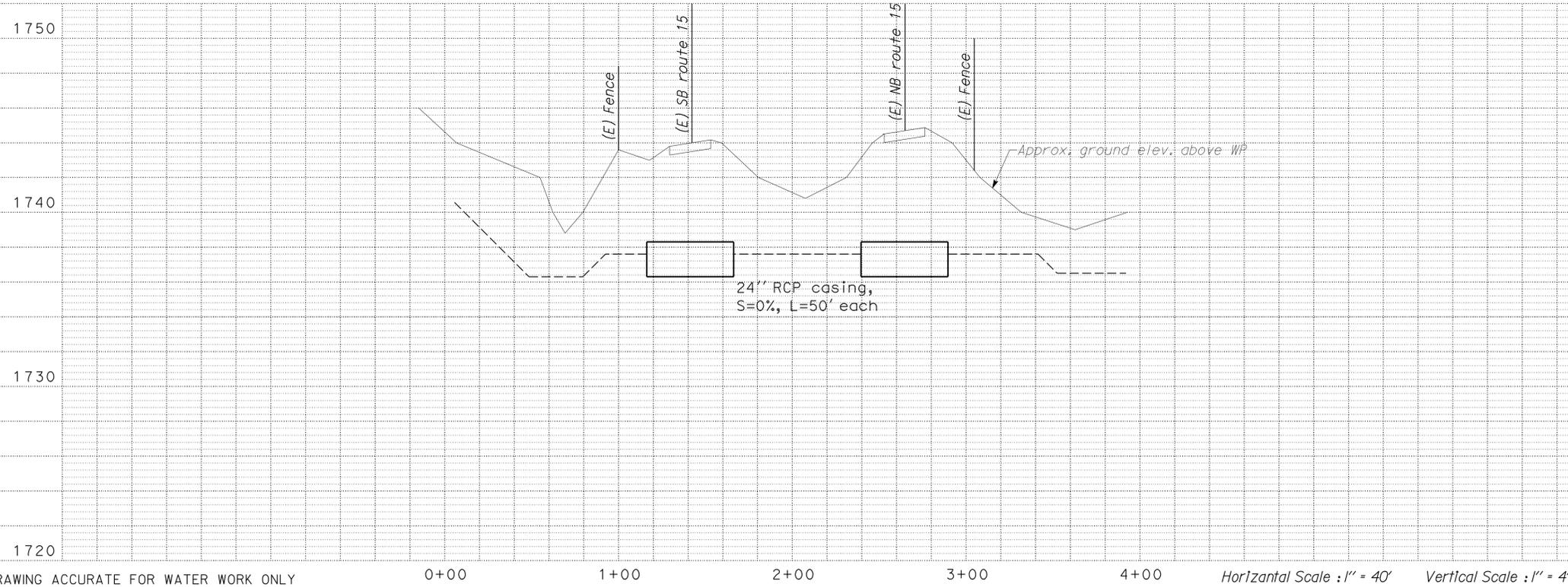
9-16-13
 PLANS APPROVAL DATE

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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: *[Signature]*
 FRANCIS SOLICH
 Approval date: 09-11-13



Scale 1" = 40' - 0"



THIS DRAWING ACCURATE FOR WATER WORK ONLY

0+00 1+00 2+00 3+00 4+00 Horizontal Scale : 1" = 40' Vertical Scale : 1" = 4'

DESIGN BY Andy Quan CHECKED Don Hansen DETAILS BY Andy Quan CHECKED Don Hansen QUANTITIES BY Andy Quan CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 640004R/L POST MILE R107.3	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION JACKED PIPE PROFILE	SHEET W-14	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 10-25-10 01-08-12 08-09-13	SHEET OF	
	TAEMWW Imperial Rev. 7/10	EA 06840				

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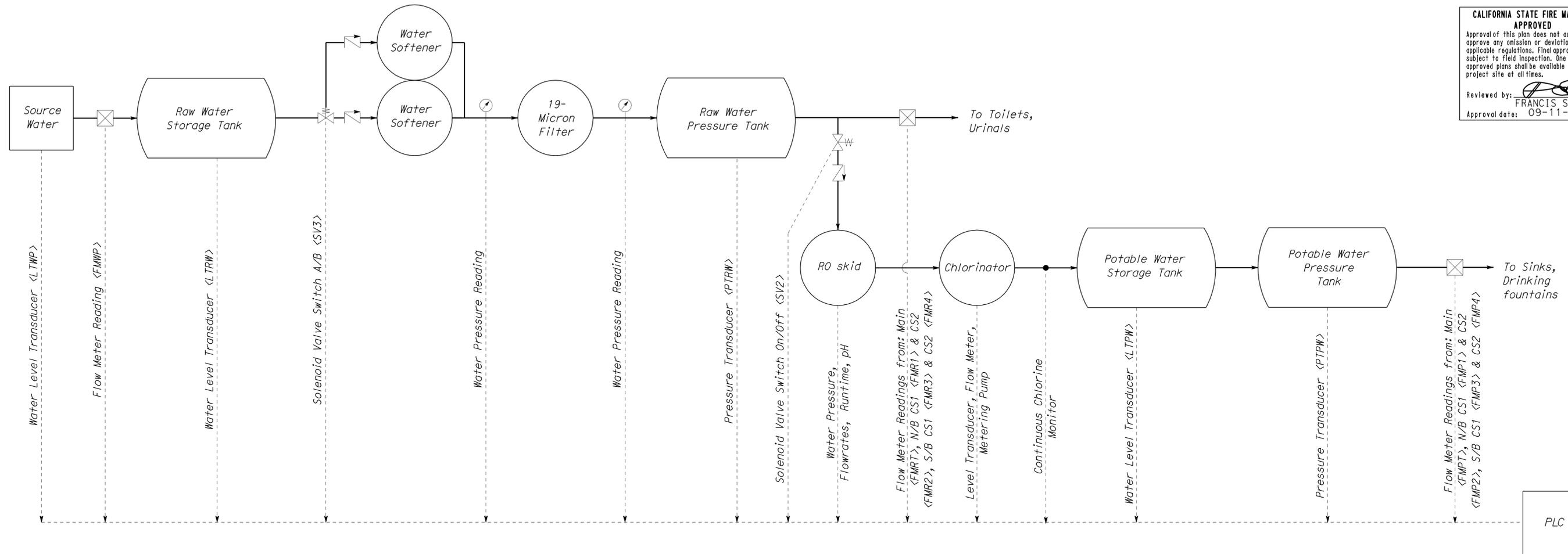
w_14.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, SBd	5, 15	23.3, R107.3	318	330
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER			08/09/2013 DATE	REGISTERED PROFESSIONAL ENGINEER J. MARCOTTE No. C 36844 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA	
9-16-13 PLANS APPROVAL DATE					
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Reviewed by: *[Signature]*
FRANCIS SOLICH
Approval date: 09-11-13



NOTE:
 <XXXX> - see

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 REVIEWED BY ELECTRICAL ENGINEER	DESIGN	BY Andy Quan	CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	C. V. KANE		SHEET W-15	
	DETAILS	BY Andy Quan	CHECKED Don Hansen			POST MILE	SAFETY ROADSIDE REST AREA REHABILITATION			
QUANTITIES	BY Andy Quan	CHECKED Don Hansen	POST MILE			LOW VOLTAGE ELECTRICAL LAYOUT				
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT PROJECT NUMBER & PHASE	3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
						08-14-09 10-15-09 12-17-09 02-18-10 04-15-10 07-25-10 01-03-12 08-09-13				

PRINTED ON: 18-SEP-2013 13:03

w_15.dgn

ABBREVIATIONS

AB	AGGREGATE BASE	IE	INVERT ELEVATION (IN FEET)
AC	ASPHALT CONCRETE	IN	INCH
B	BUNG	JB	JUNCTION BOX
BLDG	BUILDING	kW	KILOWATT
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	NORTH
COTG	CLEANOUT TO GRADE	NB	NORTHBOUND
CPLG	COUPLING	NIC	NOT IN CONTRACT
CW	COLD WATER PIPE	NO	NUMBER
D	DRAIN	OC	ON CENTER
DBH	DIAMETER AT BREAST HEIGHT	OD	OUTSIDE DIAMETER
DI	DRAIN INLET	OG	ORIGINAL GROUND
DIA	DIAMETER	P	PITCH
DP	DRAIN PIPE	PCC	PORTLAND CEMENT CONCRETE
E	ELECTRICAL	PH	PHASE
(E)	EXISTING	PRV	PRESSURE REDUCING VALVE
EA	EACH	PVC	POLYVINYL CHLORIDE
EL	ELEVATION	R	RADIUS
EP	EDGE OF PAVEMENT	RCP	REINFORCED CONCRETE PIPE
EQ	EQUAL	REQ	REQUIRED
FOB	FACE OF BUILDING	RPM	REVOLUTIONS PER MINUTE
FF	FINISH FLOOR	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
FG	FINISH GRADE	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
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
HZ	HERTZ	WP	WATER PIPE
ID	INSIDE DIAMETER	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		BENCHMARK ELEVATION
	DRAIN		CENTERLINE
	RETURN DRAIN		DIAMETER
	VENT		SECTION / ELEVATION LETTER SHEET NUMBER
	WATER		TREE
	FORCE MAIN		DIRECTION OF TRAFFIC
	LEACH LINES		MANHOLE
			COTG

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, SBd	5, 15	23.3, R107.3	319	330

REGISTERED CIVIL ENGINEER DATE 08/09/2013
 No. C 78898
 Exp. 03/31/14
 CIVIL STATE OF CALIFORNIA

9-16-13
 PLANS APPROVAL DATE
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 Reviewed by:
 FRANCIS SOLICH
 Approval date: 09-11-13

GENERAL WORK NOTES

The Contractor shall verify all controlling field dimensions and conditions before ordering or fabricating any materials.
 The Contractor shall 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

PIPE FITTINGS AND VALVES

	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
	VALVE, SAFETY RELIEF
	VALVE, PRESSURE REDUCING
	HOSE FAUCET

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						

THRUST BLOCK BEARING AREA (SQ. FT.)

Type of Fitting	90° Bend	45° Bend	11 1/4" or 22 1/2" Bend	Tee or Dead End	Tee w/ Plug	Cross w/ Plug
Size of Pipe	4"	2	1	1	2	2
	6"	4	4	2	4	4
	8"	7	4	2	5	7
	10"	12	6	3	8	12
	12"	16	10	5	12	16
	14"	20	12	6	14	20
	16"	27	15	8	18	27
	18"	45	25	13	32	45
24"	65	35	18	46	65	

THIS DRAWING ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN	BY Manju Akkipeddi	CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 540004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET SS-0
	DETAILS	BY Manju Akkipeddi / KG			CHECKED Don Hansen		
QUANTITIES	BY Manju Akkipeddi	CHECKED Don Hansen	UNIT 3616	PROJECT NUMBER & PHASE 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	NOTES, LEGEND AND ABBREVIATIONS	REVISION DATES (PRELIMINARY STAGE ONLY)
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	EA 068401	08-14-09 09-15-09 12-17-09 12-18-09 06-17-10 08-25-10 11-19-10 11-04-11 01-03-12 08-09-13	SHEET OF		

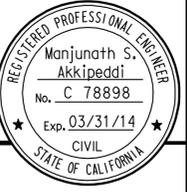
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, Sbd	5, 15	23.3, R107.3	321	330

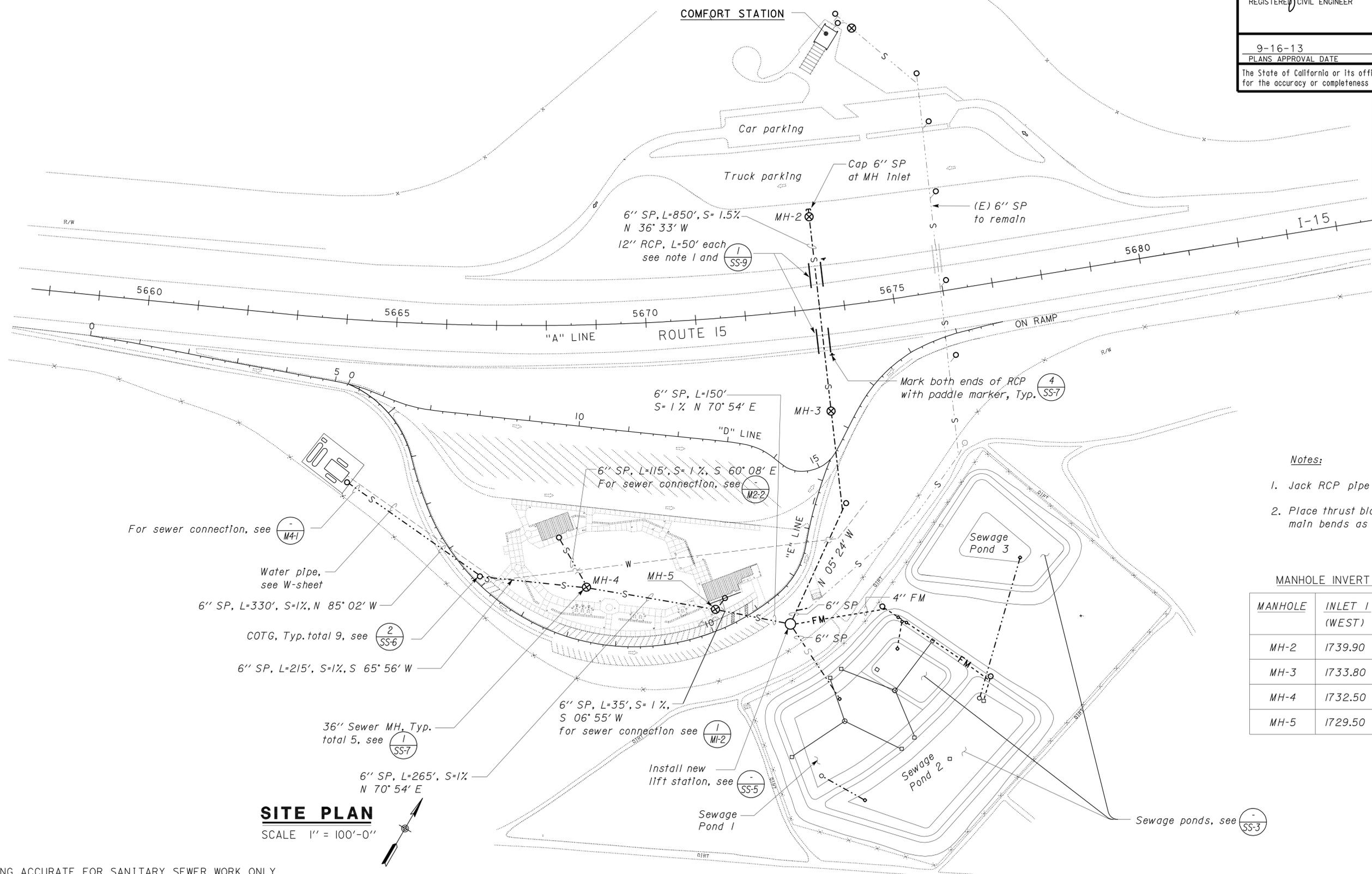
08/09/2013
 REGISTERED CIVIL ENGINEER DATE

9-16-13
 PLANS APPROVAL DATE

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- Notes:**
- Jack RCP pipe under freeway.
 - Place thrust blocks at all force main bends as shown in SS-0.

MANHOLE INVERT FLOW ELEVATION

MANHOLE	INLET 1 (WEST)	INLET 2 (EAST)	OUTLET
MH-2	1739.90	-	1739.65
MH-3	1733.80	-	1733.55
MH-4	1732.50	1736.30	1732.25
MH-5	1729.50	1734.40	1729.27

SITE PLAN
 SCALE 1" = 100'-0"

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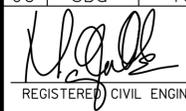
DESIGN	BY Manju Akkipeddi	CHECKED Don Hansen
DETAILS	BY Manju Akkipeddi / KG	CHECKED Don Hansen
QUANTITIES	BY Manju Akkipeddi	CHECKED Don Hansen

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

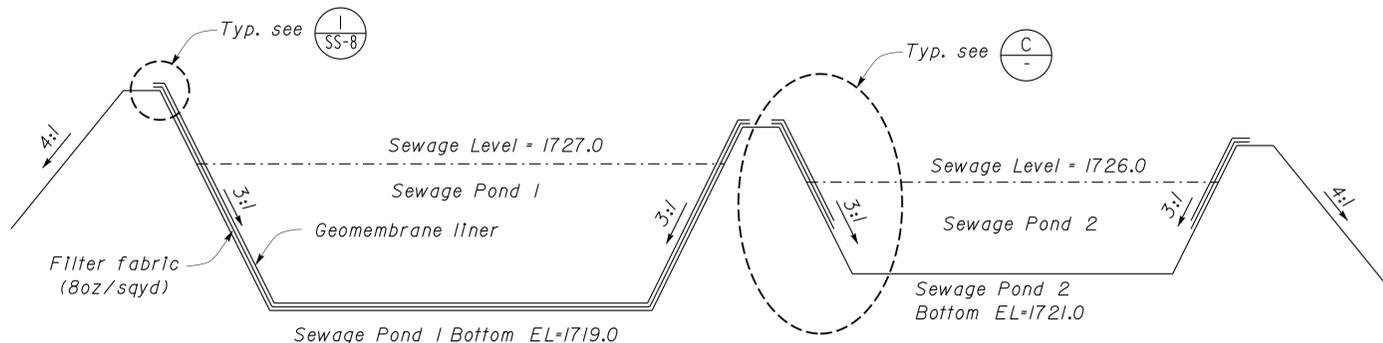
BRIDGE NO. 540004R/L
 POST MILE R107.3
C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION
 MODIFIED SITE PLAN

SHEET SS-2 OF

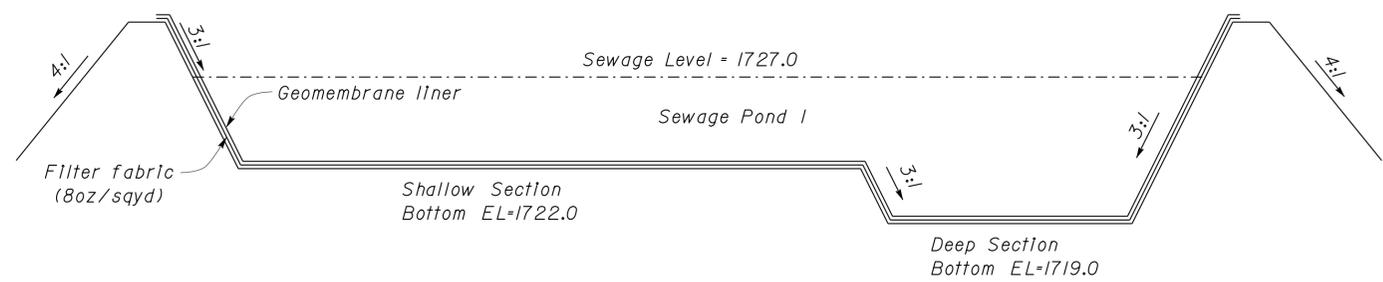
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, SBd	5, 15	23.3, R107.3	323	330
 REGISTERED CIVIL ENGINEER			08/09/2013 DATE		
9-16-13 PLANS APPROVAL DATE					
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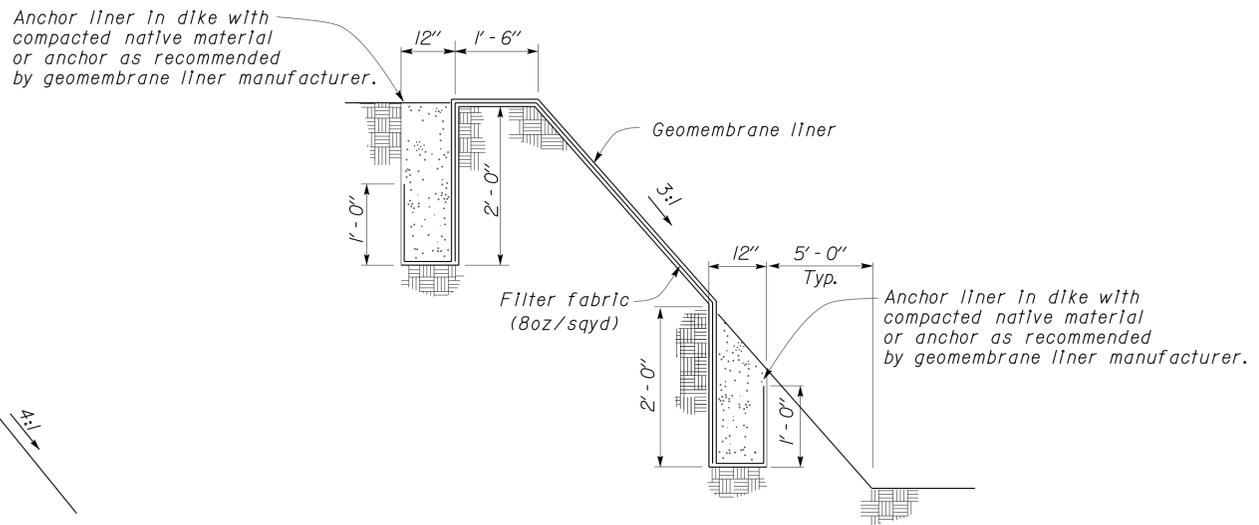
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FRANCIS SOLICH
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A SECTION
 Vertical 1" = 5'
 Horizontal 1" = 30'



B SECTION
 Vertical 1" = 5'
 Horizontal 1" = 30'

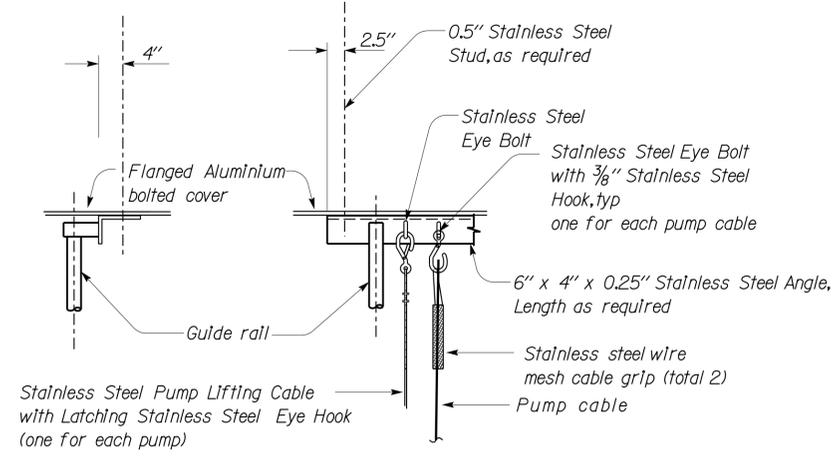
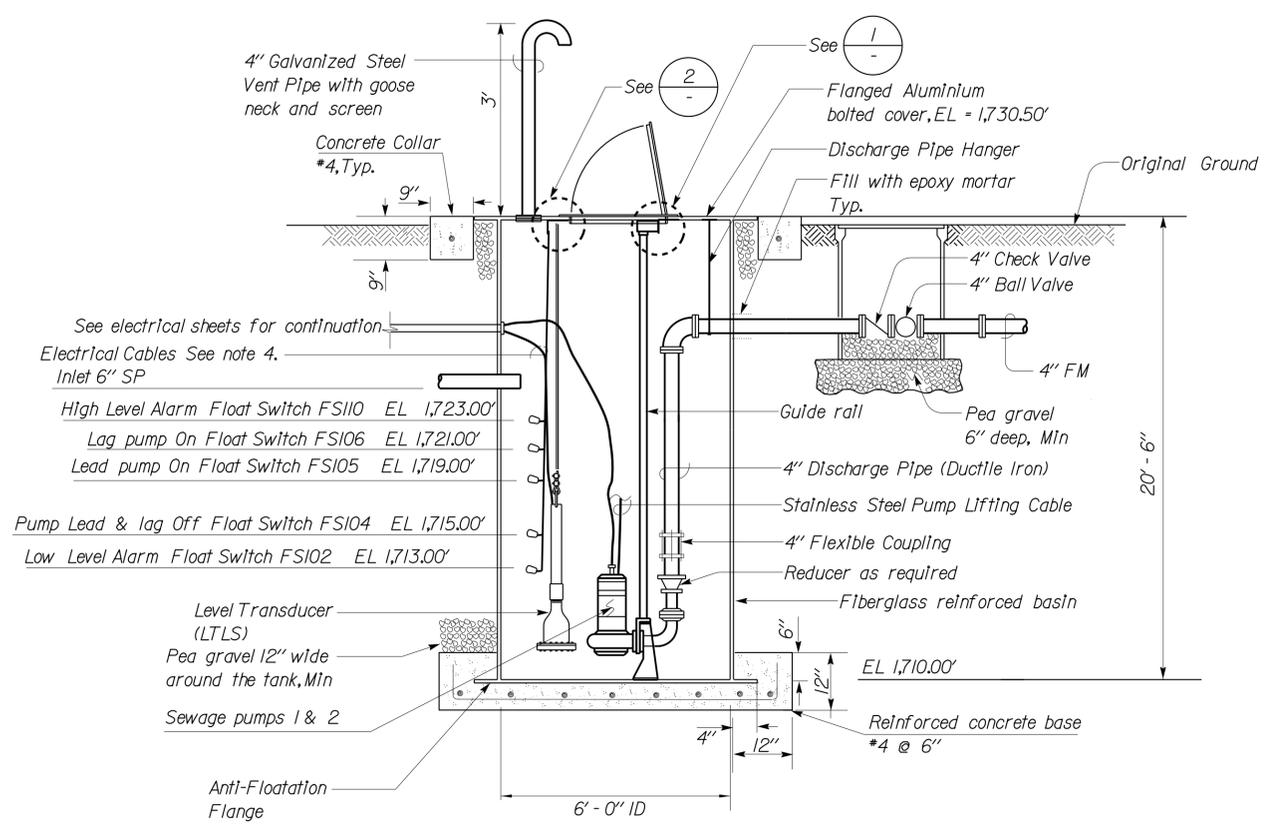


C SEWAGE POND 2 BERM SECTION
 NO SCALE

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DESIGN BY <i>Manju Akkipeddi</i> CHECKED BY <i>Don Hansen</i> DETAILS BY <i>Manju Akkipeddi / KG</i> CHECKED BY <i>Don Hansen</i> QUANTITIES BY <i>Manju Akkipeddi</i> CHECKED BY <i>Don Hansen</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 540004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION SECTIONS	SHEET SS-4 OF
			POST MILE R107.3		
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 08-14-09 10-15-09 12-17-09 02-18-10 04-15-10 06-17-10 11-04-10 01-03-12 08-09-13	SHEET OF

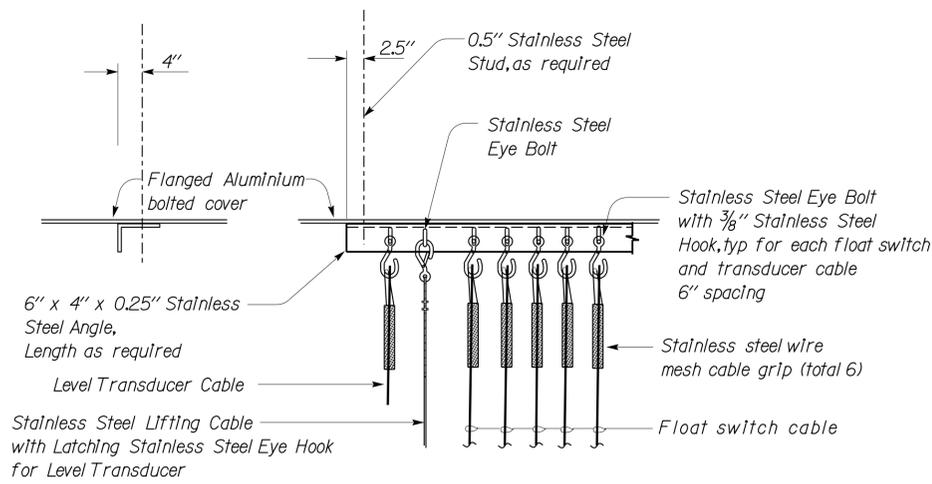
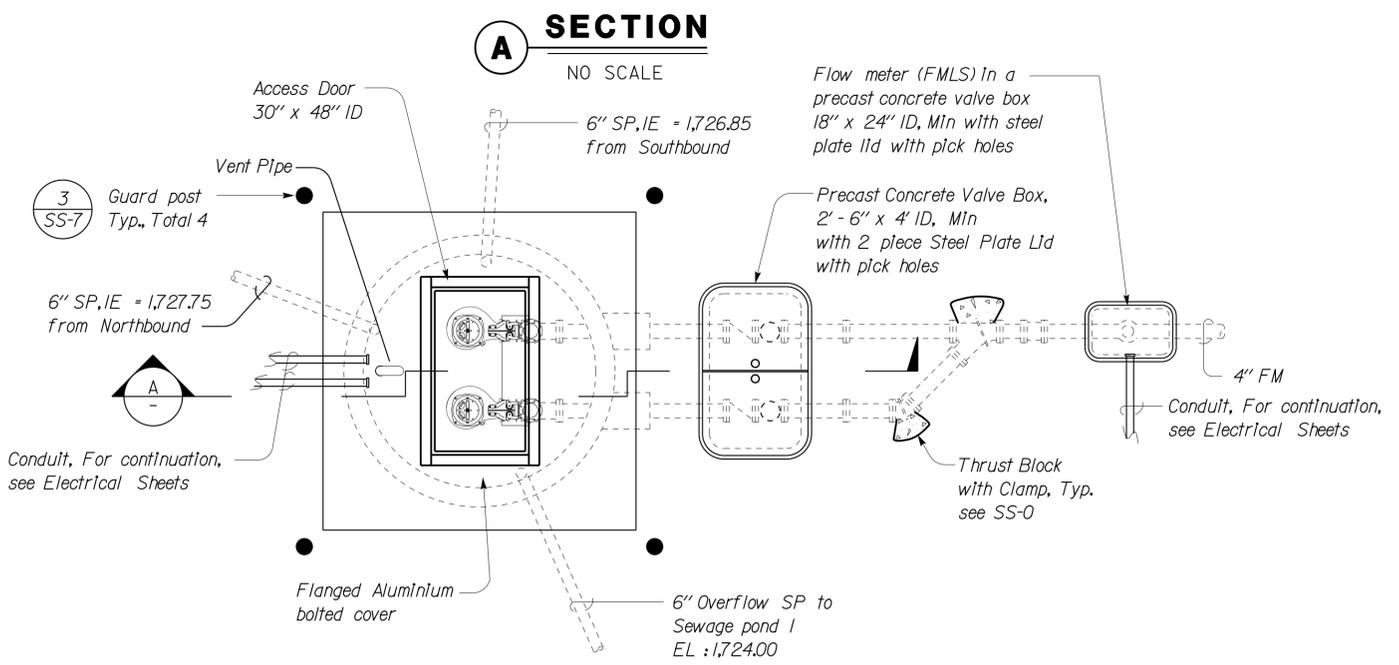
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1 **DETAIL**
NO SCALE

EQUIPMENT SCHEDULE						
EQUIPMENT	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (FT)	SPEED (RPM)	HP	VOLTS	PHASE
SEWAGE PUMP (NO. 1 & 2)	35	35'	3450	2	460	3
	40	35'	(Max)			
	45	35'				

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 Approval date: 09-11-13



2 **DETAIL**
NO SCALE

- Notes:
- For Inlet, outlet and vent orientation and installation location, see Sanitary Sheet SS-2.
 - Discharge pipe hanger must be stainless steel and attached as per manufacturer's recommendation.
 - All fastener to aluminum 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, level transducer and floats to controls without splices.

SEWAGE LIFT STATION PLAN
NO SCALE

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DESIGN	BY Manju Akkipeddi	CHECKED Don Hansen
DETAILS	BY Manju Akkipeddi / KG	CHECKED Don Hansen
QUANTITIES	BY Manju Akkipeddi	CHECKED Don Hansen

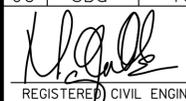
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

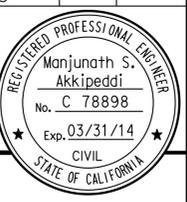
DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 540004R/L
 POST MILE R107.3

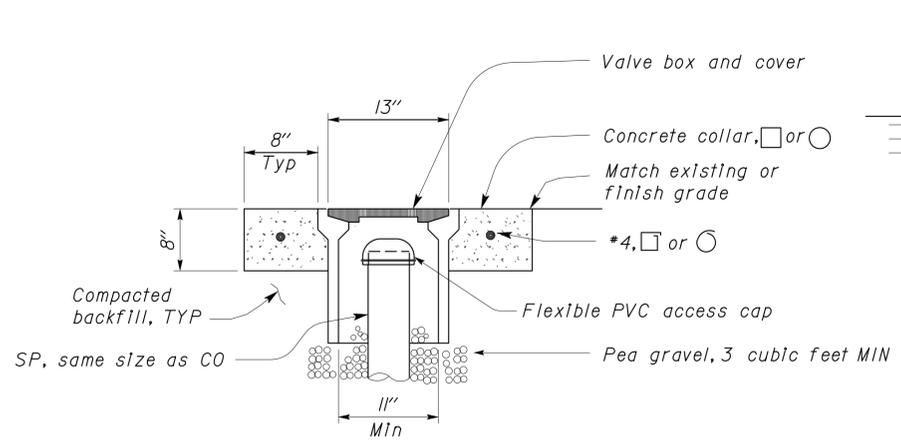
C. V. KANE
SAFETY ROADSIDE REST AREA REHABILITATION
 SEWAGE LIFT STATION

SHEET **SS-5** OF

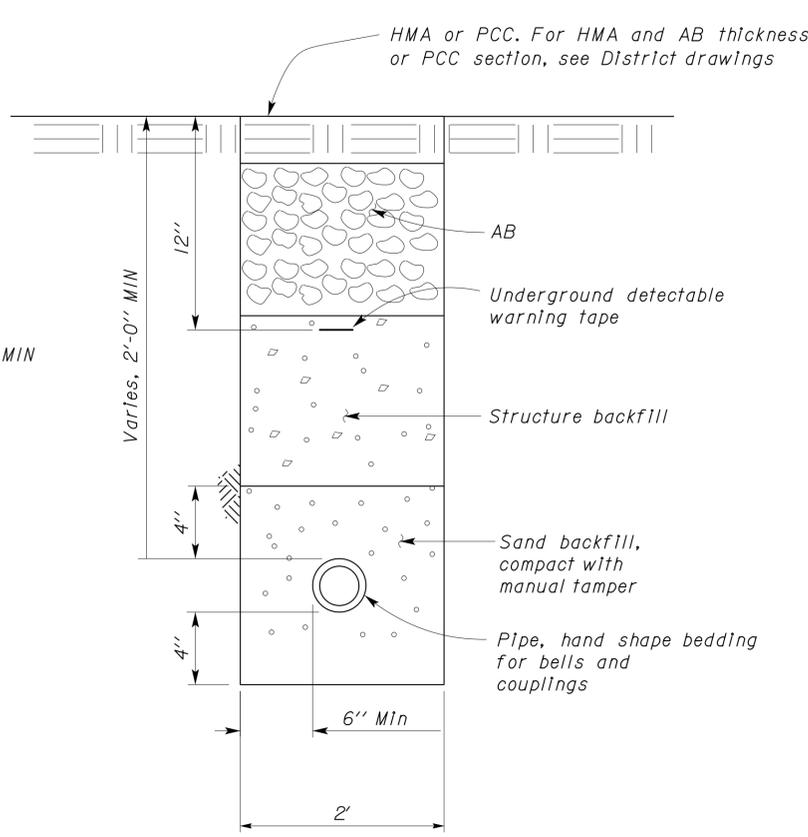
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, Sbd	5, 15	23.3, R107.3	325	330
 REGISTERED CIVIL ENGINEER				08/09/2013 DATE	
9-16-13 PLANS APPROVAL DATE					
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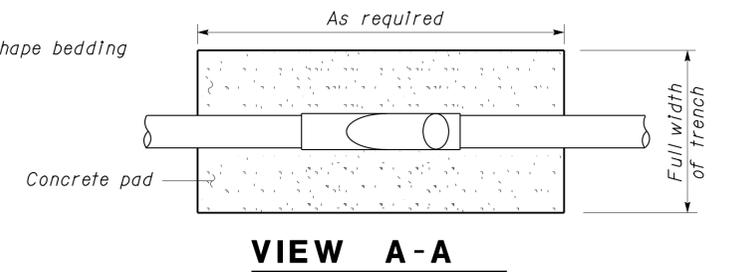
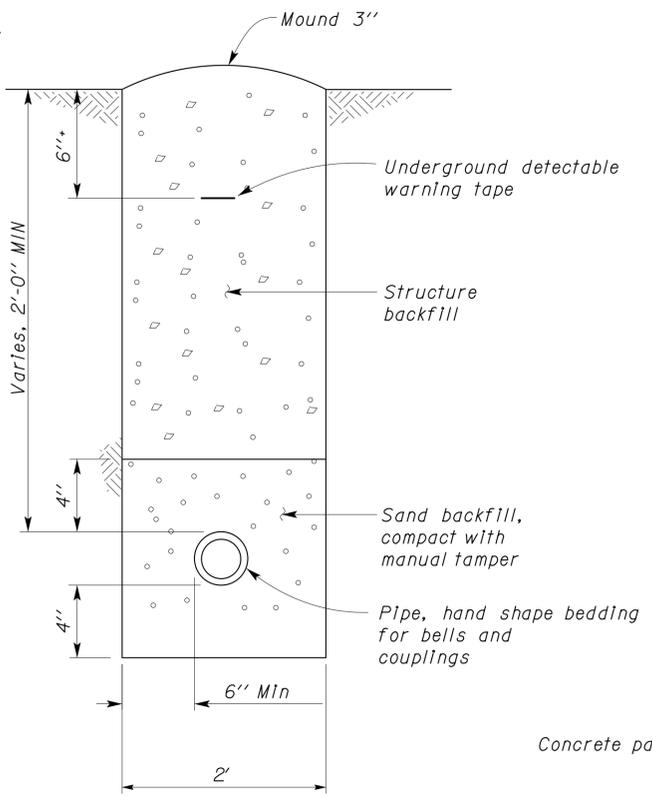
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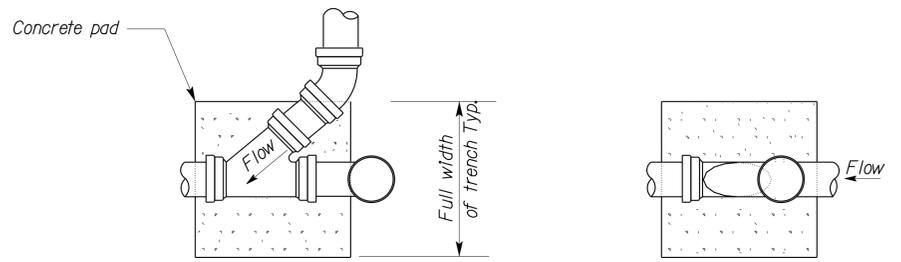
A COTG ACCESS BOX
NO SCALE



1 SEWER PIPE / FORCE MAIN
NO SCALE

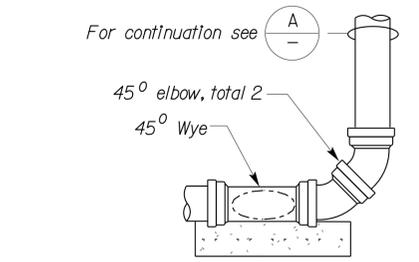


VIEW A-A



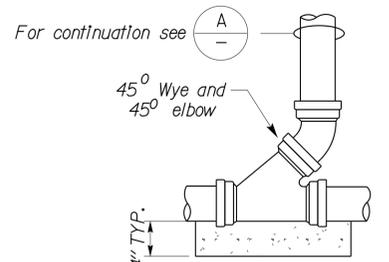
PLAN

PLAN



ELEVATION

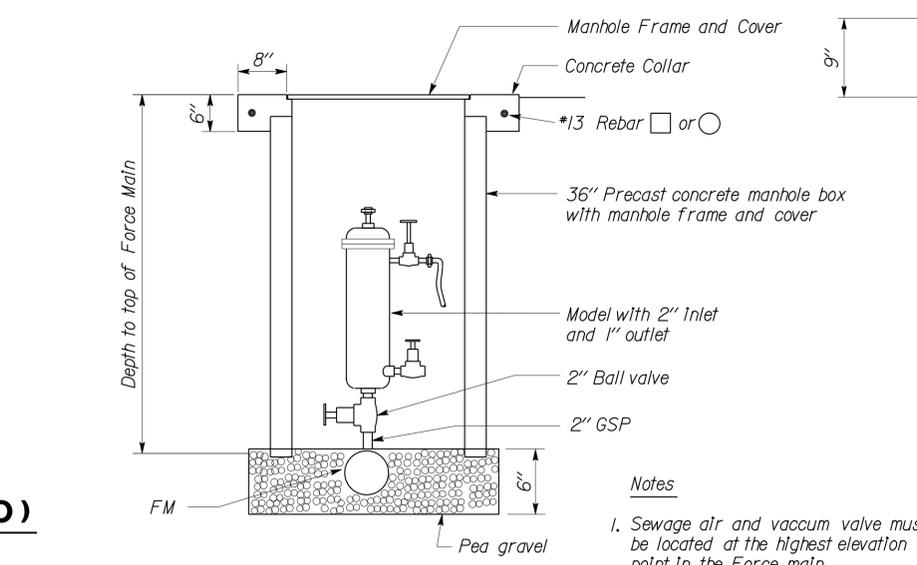
CLEANOUT (AT BEND)



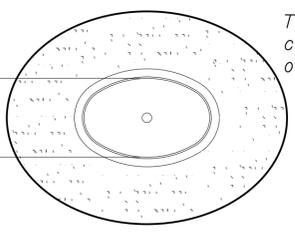
ELEVATION

CLEANOUT (STANDARD)

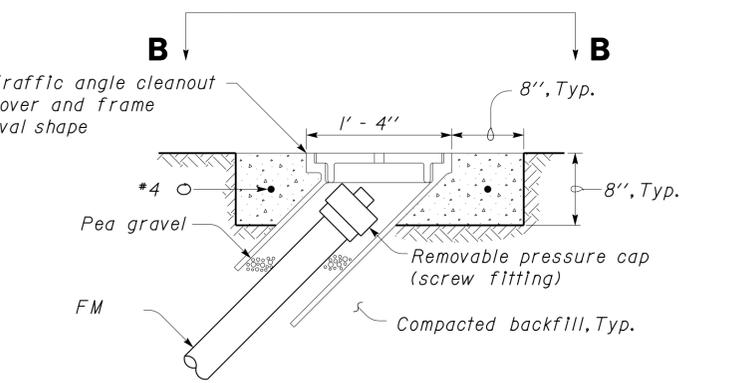
2 CLEANOUT TO GRADE
NO SCALE



4 SEWAGE AIR AND VACUUM VALVE
NO SCALE

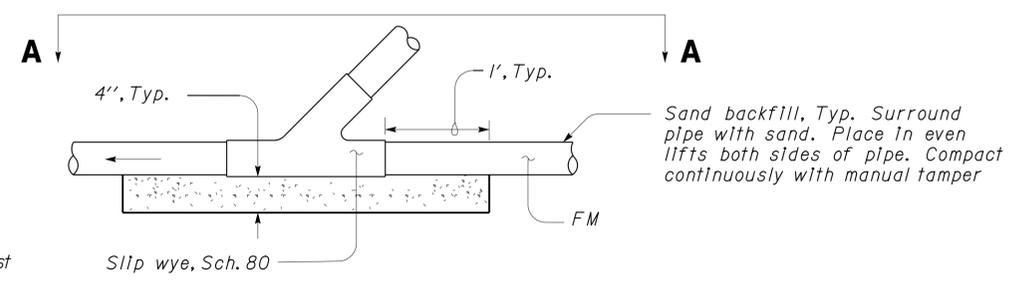


VIEW B-B



ELEVATION

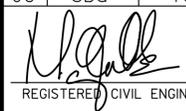
3 FORCE MAIN CLEANOUT
NO SCALE

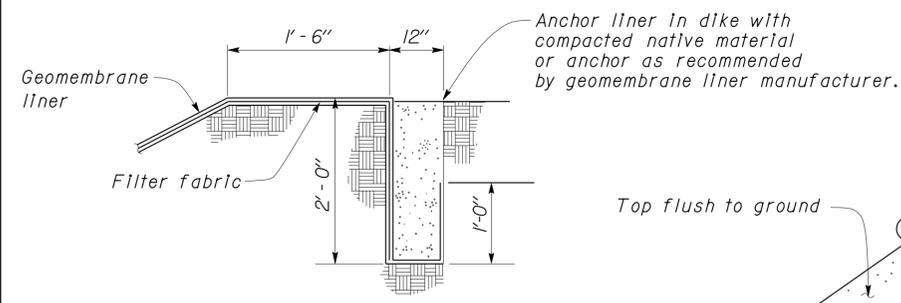


Notes
 1. Sewage air and vacuum valve must be located at the highest elevation point in the Force main.

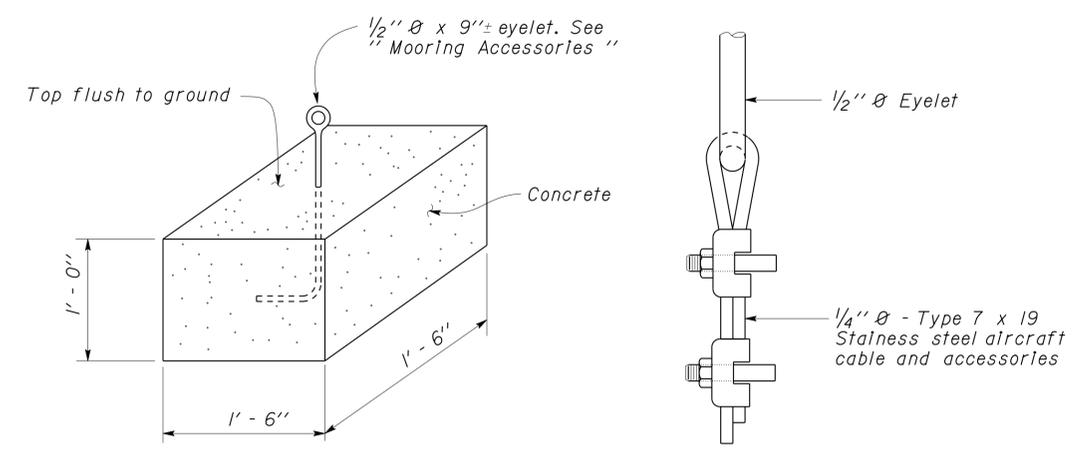
THIS DRAWING ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN	BY	Manju Akkipeddi	CHECKED	Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	540004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET SS-6								
	DETAILS	BY	Manju Akkipeddi / KG	CHECKED			Don Hansen	POST MILE			R107.3							
QUANTITIES	BY	Manju Akkipeddi	CHECKED	Don Hansen	UNIT PROJECT NUMBER & PHASE	3616 08000002291	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF								
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS							0	1	2		3	08-14-09	10-15-09	12-17-09	18-10-10	04-15-10	06-17-10	11-19-10

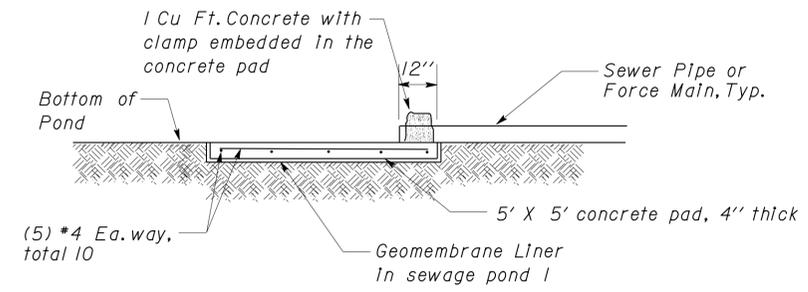
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, SBd	5, 15	23.3, R107.3	327	330
 REGISTERED CIVIL ENGINEER			08/09/2013 DATE		
9-16-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



1 DETAIL
NO SCALE

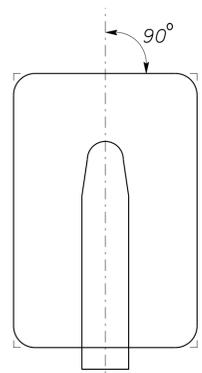


2 MOORING ANCHOR DETAILS
NO SCALE

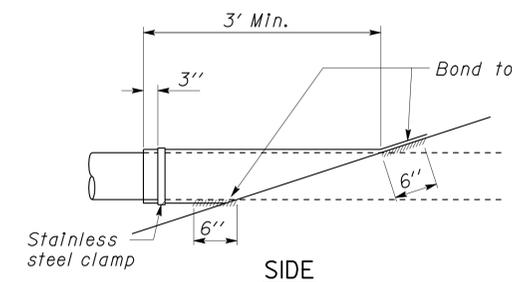
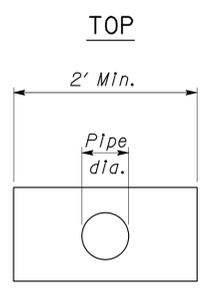


6 CONCRETE SCOUR PAD
NO SCALE

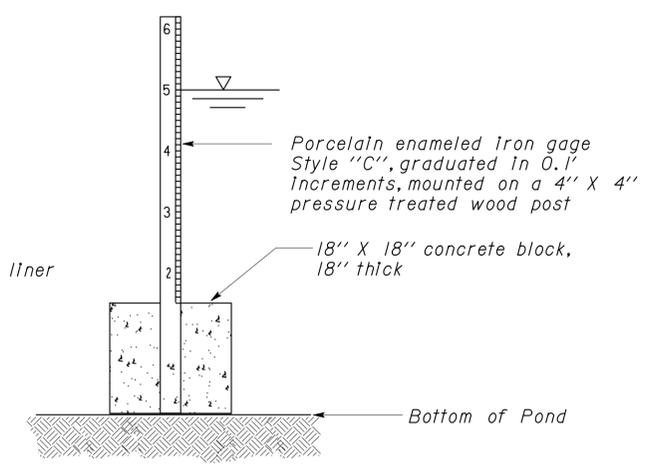
CALIFORNIA STATE FIRE MARSHAL APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: 
FRANCIS SOLICH
Approval date: 09-11-13



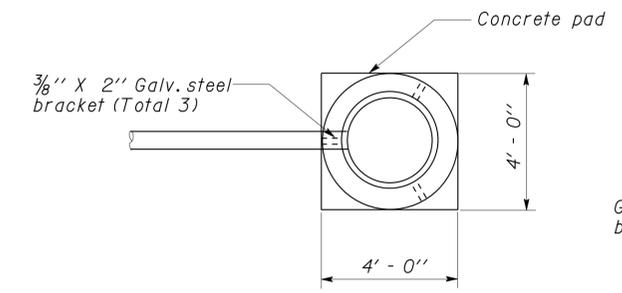
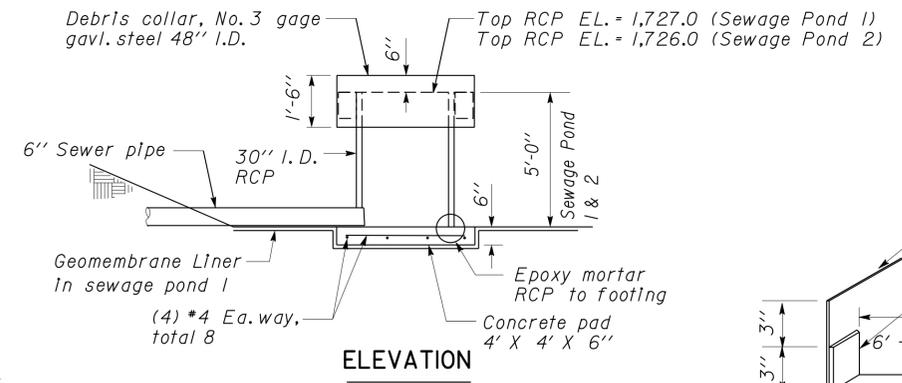
Notes:
1. Boot to be fabricated from same material as geomembrane liner.



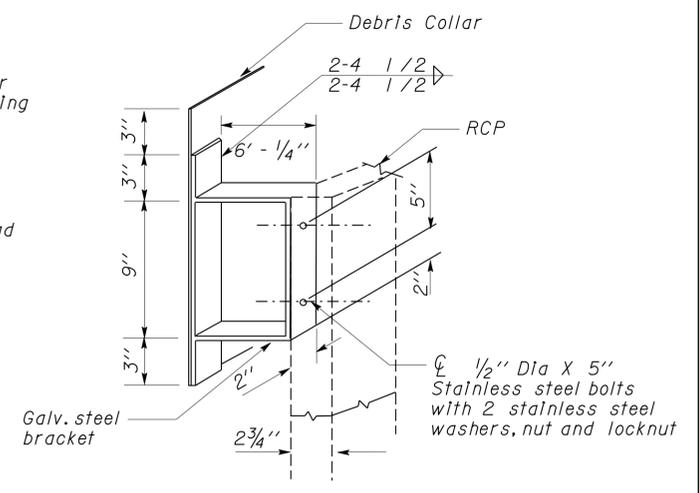
4 PIPE BOOT ASSEMBLY
NO SCALE



5 POND DEPTH GAGE
NO SCALE



7 OVERFLOW DETAIL
NO SCALE

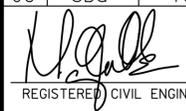


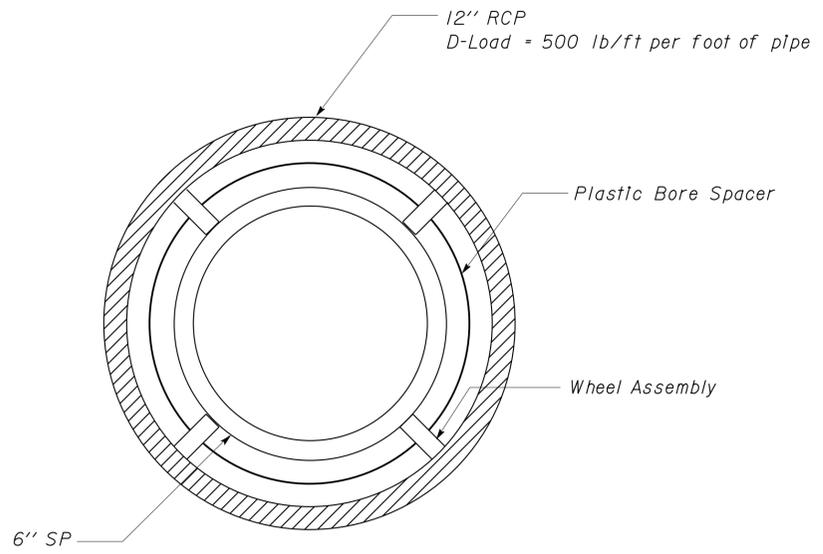
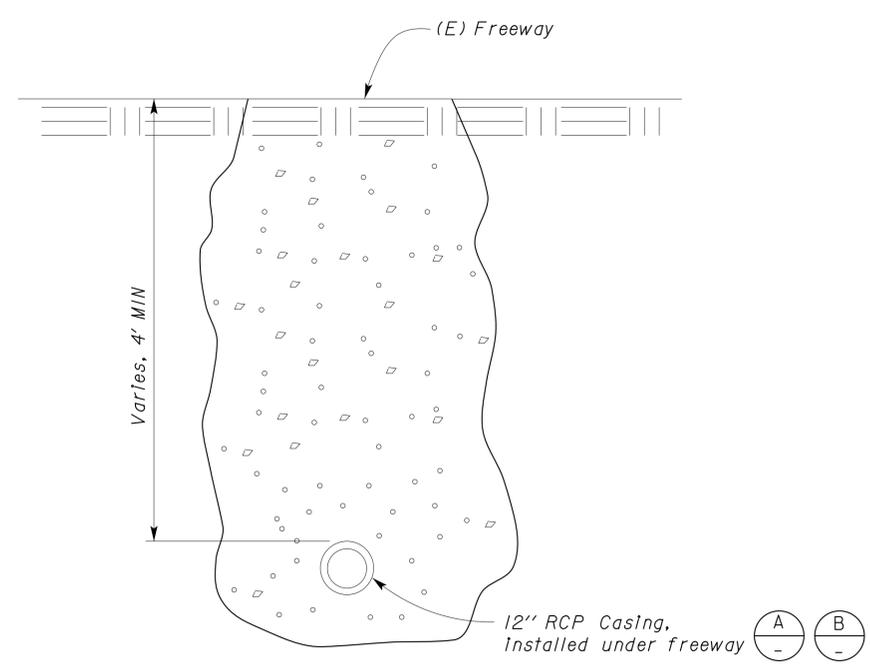
DEBRIS COLLAR BRACKET DETAIL

THIS DRAWING ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN	BY Manju Akkipeddi	CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 540004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION DETAILS 3	SHEET SS-8	
DETAILS	BY Manju Akkipeddi / KG	CHECKED Don Hansen		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE R107.3		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES	BY Manju Akkipeddi	CHECKED Don Hansen		UNIT PROJECT NUMBER & PHASE 3616 08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES		04-15-10 06-17-10 11-19-10 11-04-11 07-12-08-09-13	OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			EA 068401	TAEWW Imperial Rev. 7/10			ss_8.dgn	

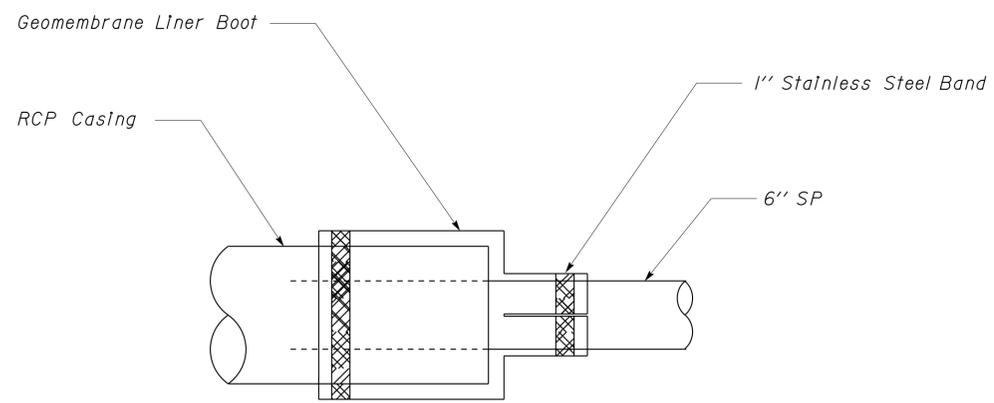
PRINTED ON: 18-SEP-2013 13:01

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, SBd	5, 15	23.3 R107.3	328	330
 REGISTERED CIVIL ENGINEER			08/09/2013 DATE		
9-16-13 PLANS APPROVAL DATE					
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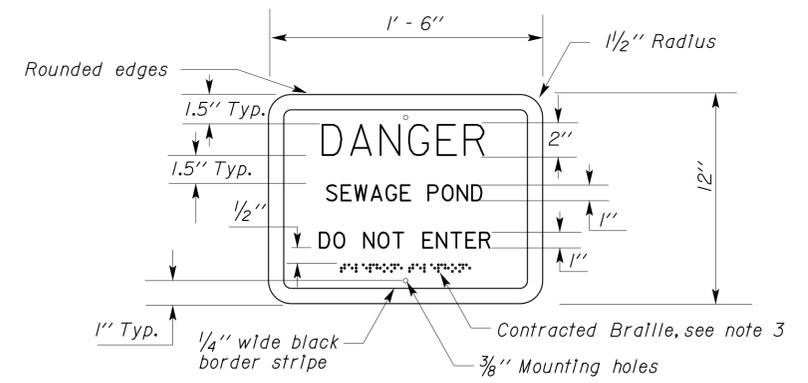


A PIPE CASING DETAIL
NO SCALE

1 SEWER PIPE CROSSING
NO SCALE

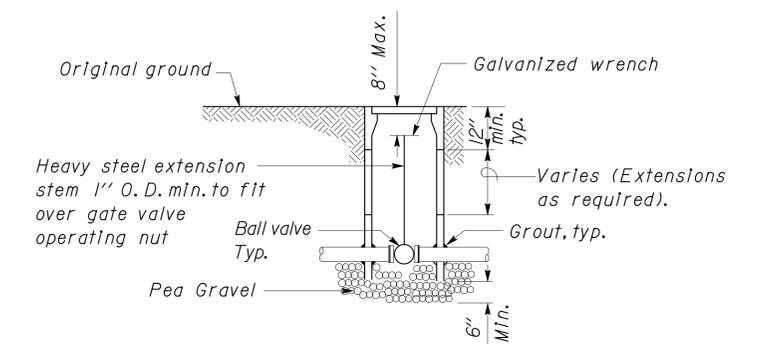


B END SEALS
NO SCALE

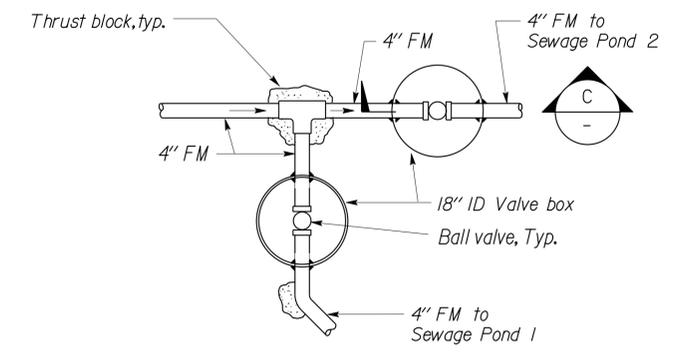


2 SEWAGE POND FENCE SIGN

- Notes:
- All tactile characters shall be black on white background except the word "DANGER" shall be red. All tactile characters shall be uppercase sans serif raised 1/32" minimum, with a width to height ratio between 3:5 and 1:1 and a stroke width to height ratio between 1:5 and 1:10.
 - Attach to the fence post at 100' intervals. Install at 3' above finish grade at the existing fence.
 - Contracted Braille: Dots shall be 1/10" OC in each cell with 2/10" space between cells measured from the second column of dots in the second cell. Dots shall be raised a minimum of 1/40" above the background. Dots shall be domed or rounded.



C SECTION



3 BALL VALVE
NO SCALE

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DESIGN	BY	Manju Akkipeddi	CHECKED	Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	540004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET SS-9	
	DETAILS	BY	Manju Akkipeddi / KG	CHECKED			Don Hansen	POST MILE			R107.3
QUANTITIES	BY	Manju Akkipeddi	CHECKED	Don Hansen	UNIT	3616	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET	
					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	PROJECT NUMBER & PHASE	08000002291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	04-15-10 06-17-10 09-01-10 11-19-10 11-01-11 01-03-12 08-09-13	OF
TAEMWW Imperial Rev. 7/10 EA 068401 PRINTED ON: 18-SEP-2013 13:01 ss_9.dgn											

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, SBd	5, 15	23.3, R107.3	329	330

REGISTERED CIVIL ENGINEER *[Signature]* DATE 08/09/2013
 Manjunath S. Akkipeddi
 No. C 78898
 Exp. 03/31/14
 CIVIL
 STATE OF CALIFORNIA

9-16-13
PLANS APPROVAL DATE

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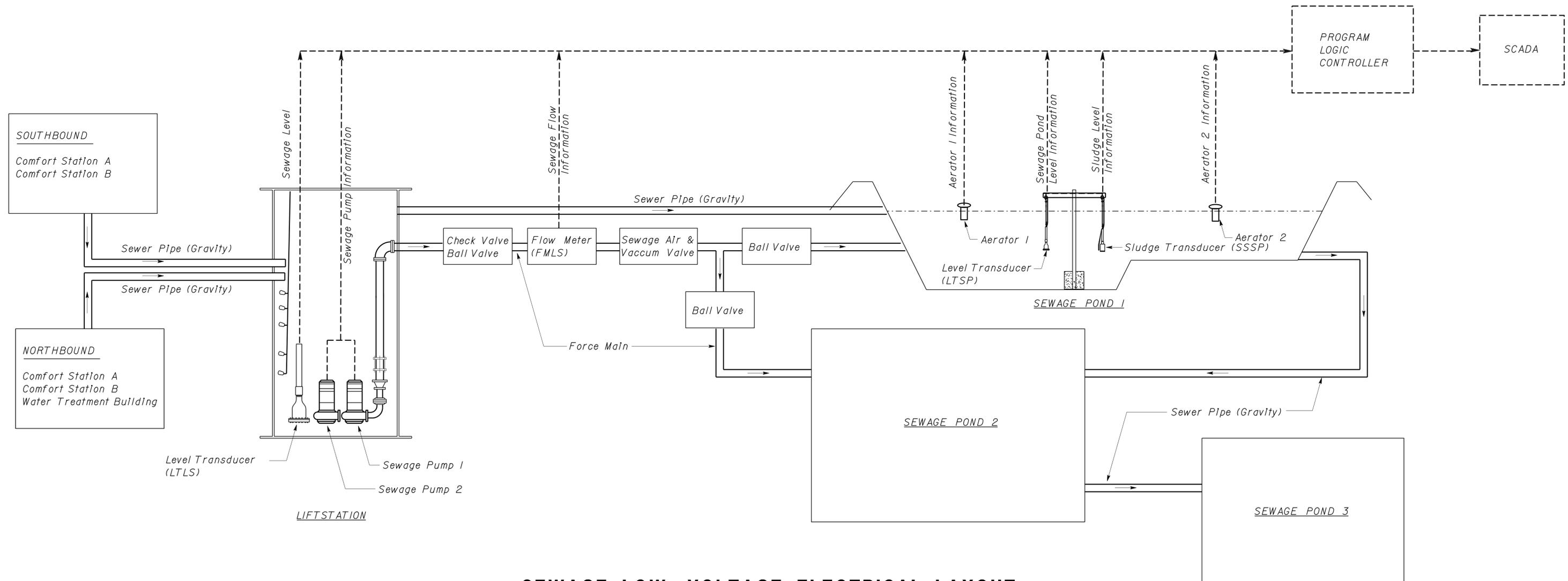
General Notes:

- Each dash line indicates low voltage overhead or underground conduit and conductors system.
- All conduit and conductors system shall be provided and installed per "Basic Material and Methods" of Division 16 of the Special Provisions.
- All underground conduits in direct contact with soil shall be PVC conduit except as follow:
All conduits system to and from sanitary access openings shall be PVC coated galvanized rigid steel conduit. All conduits shall be protected in a fashion as recommended by the PVC coated conduit manufacturer
- Provide and install underground pull boxes as required.
- Conduit home run may be combined per the approval of the Engineer.
- The entire installation shall comply with Class I Division I requirements of CEC.

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *[Signature]*
FRANCIS SOLICH
Approval date: 09-11-13



SEWAGE LOW VOLTAGE ELECTRICAL LAYOUT

THIS DRAWING ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN	BY Manju Akkipeddi	CHECKED Don Hansen
DETAILS	BY Manju Akkipeddi / KG	CHECKED Don Hansen
QUANTITIES	BY Manju Akkipeddi	CHECKED Don Hansen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 540004R/L
POST MILE R107.3

C. V. KANE
SAFETY ROADSIDE REST AREA REHABILITATION
SEWAGE LOW VOLTAGE ELECTRICAL LAYOUT

SHEET SS-10 OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 08	Sac, SBd	5, 15	23.3, R107.3	330	330

REGISTERED CIVIL ENGINEER *[Signature]* DATE 08/09/2013
 REGISTERED PROFESSIONAL ENGINEER
 Manjunath S. Akkipeddi
 No. C 78898
 Exp. 03/31/14
 CIVIL
 STATE OF CALIFORNIA

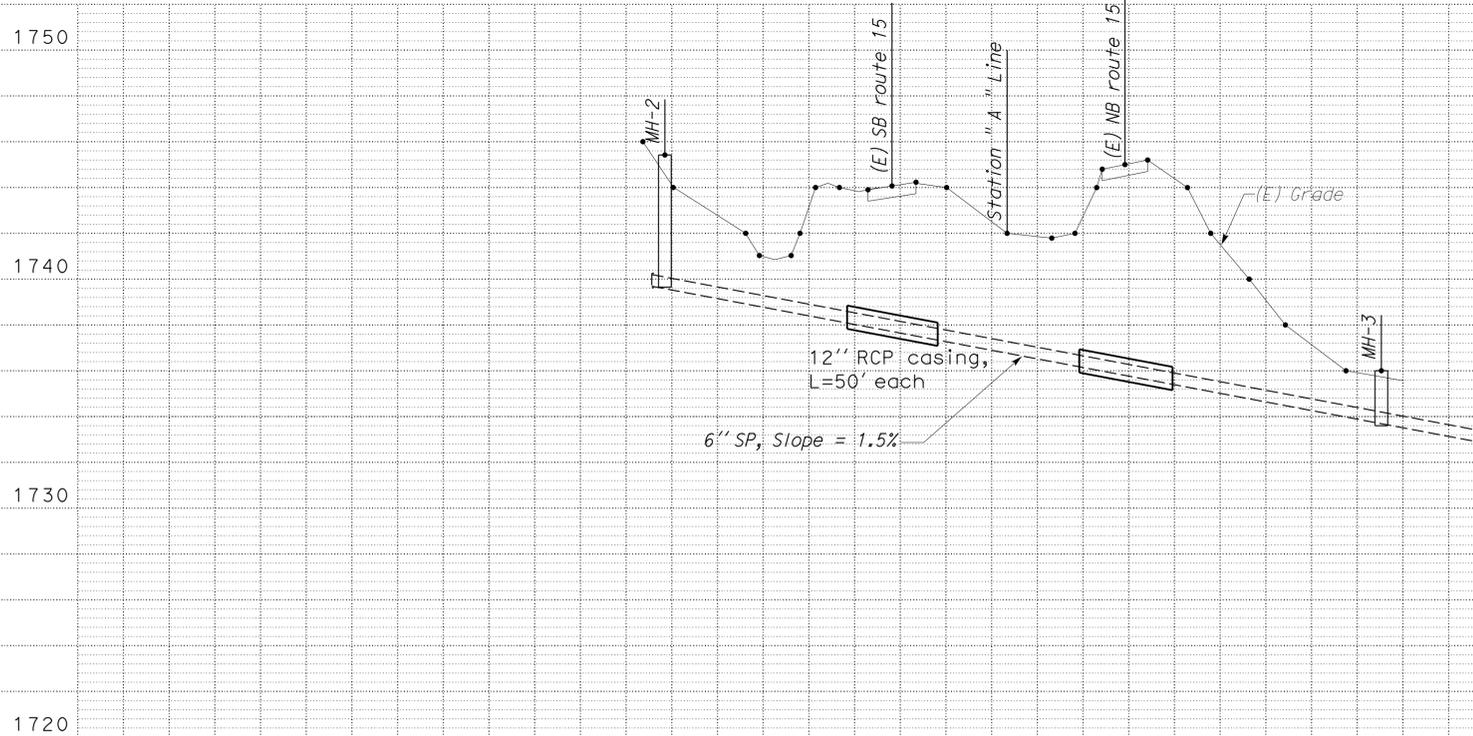
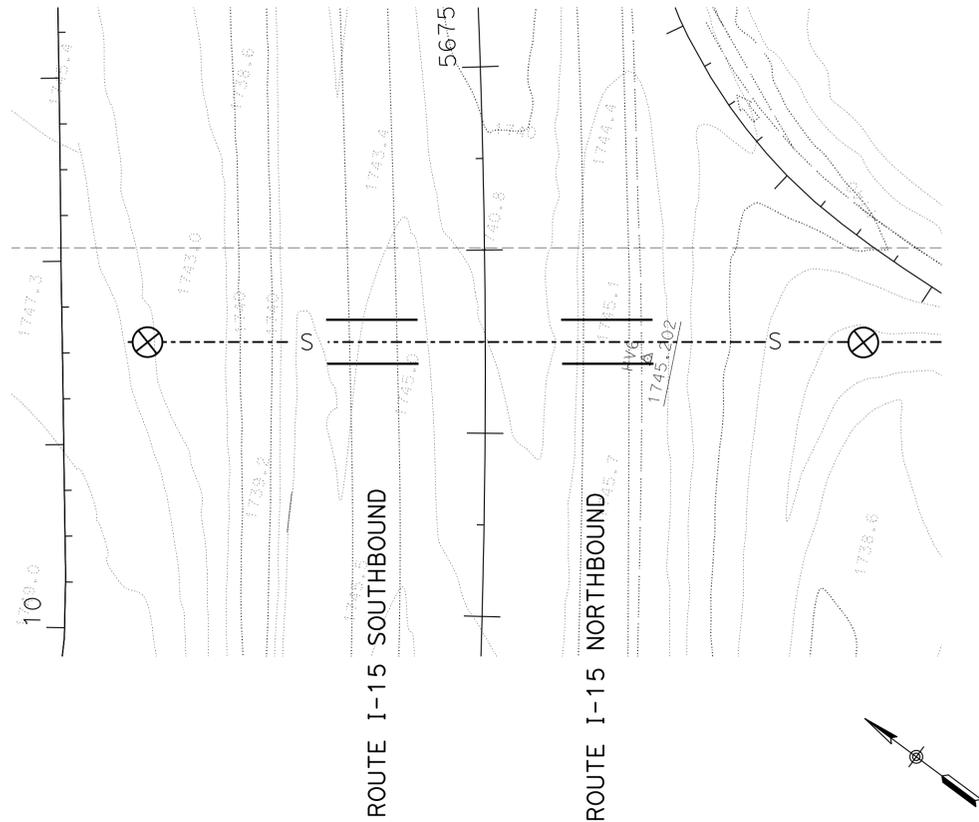
9-16-13
PLANS APPROVAL DATE

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Reviewed by: *[Signature]*
FRANCIS SOLICH
Approval date: 09-11-13



THIS DRAWING ACCURATE FOR SANITARY SEWER WORK ONLY Horizontal Scale : 1" = 50' Vertical Scale : 1" = 4'

DESIGN	BY Manju Akkipeddi	CHECKED Don Hansen
DETAILS	BY Manju Akkipeddi / KG	CHECKED Don Hansen
QUANTITIES	BY Manju Akkipeddi	CHECKED Don Hansen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	540004R/L
POST MILE	R107.3

C. V. KANE
SAFETY ROADSIDE REST AREA REHABILITATION
SEWER JACKED PIPE PROFILE

SHEET **SS-11** OF

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0	1	2	3
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UNIT PROJECT NUMBER & PHASE 3616 08000002291

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
08-25-10 11-19-10 11-04-11 08-12-13		

PRINTED ON: 18-SEP-2013 13:01

ss_11.dgn