



## MARCH 2014



## PROJECT DESCRIPTION

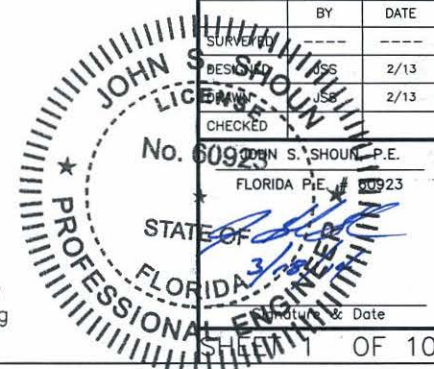
FIDDLER'S GREEN LIFT STATION WILL CONSIST OF THE INSTALLATION OF A NEW WET WELL, VALVE ASSEMBLY, AND ALL OTHER ASSOCIATED ITEMS. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF THE EXISTING WET WELL AND VALVE VAULT STRUCTURES.

NO.	INDEX OF SHEETS
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THESE PLANS HAVE BEEN DESIGNED ON 11x17 SHEETS

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**SATELLITE LIFT STATION R&R  
2014 GROUP 1  
COVER SHEET**

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GENERAL

1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: SHERRI ROBINSON AND CAN BE REACHED AT: (941) 708-7450 EXT. 7334
2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER.
3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
5. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
7. AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
8. NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.

SAFETY

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
10. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
11. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
12. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

13. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.
14. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL. THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
15. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
16. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
17. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
18. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
19. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
20. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
21. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
22. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
23. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

24. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
25. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
26. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.
28. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
29. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER SECTION 02575.
30. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

UTILITIES

31. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY EFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
32. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
33. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
34. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
35. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.

RESTORATION

36. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
37. ALL DISTURBED GRASSED AREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
38. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.
39. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
40. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 OF THE F.D.O.T. DESIGN STANDARDS.
41. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
42. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

CONSTRUCTION

43. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFFLES POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
44. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEPED DAILY AS PART OF DAILY CLEAN UP.
45. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
46. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
47. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
48. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
49. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
50. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
51. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
52. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
53. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
54. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS.
55. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
56. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
57. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
58. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
59. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) PRIOR TO THE WATER SHUT-OFF. REFERENCE SECTION 01580, PARAGRAPH 1.03 OF THE SPECIFICATIONS. WHEN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED RESIDENCES AT LEAST TWO DAYS (48 HRS) PRIOR TO WATER SHUT-OFF. FOR LARGE PROJECTS WITH HUNDREDS OF HOMES AFFECTED, THE CONTRACTOR SHALL ALSO MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTACT WITH HOMEOWNER'S ASSOCIATIONS. WRITTEN NOTIFICATIONS SHALL ALSO BE FAXED TO THE TAMPA TRIBUNE, BRADENTON HERALD, SARASOTA HERALD TRIBUNE, WBDR RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.

60. ALL NEW PIPE LINES SHALL BE PIG CLEANED (4" AND LARGER), FLUSHED, PRESSURE TESTED, DISINFECTED AND CERTIFIED PRIOR TO TIE-INS TO EXISTING FACILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR PIG CLEANING AND PRESSURE TESTING.
61. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.
62. ALL EXISTING MAINS THAT ARE BEING REPLACED SHALL BE ABANDONED IN PLACE UPON ACCEPTANCE AND ACTIVATION OF THE NEW MAINS. ABANDONED MAINS SHALL BE CUT, FILLED WITH GROUT, AND CAPPED. REFER TO SECTION 02064 OF THE SPECIFICATIONS FOR GROUTING OF ABANDONED PIPE.
63. WATER MAINS CROSSING OVER OR UNDER SANITARY SEWERS, FORCE MAINS, AND RECLAIMED WATER LINES SHALL BE LAID PER CURRENT EDITION OF "10 STATE STANDARDS" AND MANATEE COUNTY UTILITY STANDARDS UNLESS NOTED OTHERWISE ON THE PLANS.
64. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.

65. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO THE OWNER. RECORD DRAWINGS SHALL BE SIGNED & SEALED BY A SURVEYOR CURRENTLY LICENSED BY THE STATE OF FLORIDA. ALL RECORD DRAWING INFORMATION REQUIREMENTS IN SECTION 14 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 14 WILL BE PROVIDED UPON REQUEST.

EMERGENCY CONTACTS

MANATEE COUNTY  
PUBLIC WORKS DEPT.  
UTILITY ENGINEERING  
WAYNE TROXLER, P.E.  
1022 26TH AVENUE EAST  
BRADENTON, FL. 34208  
(941) 708-7450 EXT. 7650  
FAX: (941) 708-7431

TECO/PEOPLES GAS CO.  
DAN SHANAHAN  
8261 VICO COURT  
SARASOTA, FL. 34240  
(941) 342-4030  
FAX: (941) 342-4011  
EMERGENCY: 1-877-832-6911  
dshanahan@tecoenergy.com

SUNSHINE STATE ONE CALL OF  
FLORIDA  
1-(800) 432-4770

VERIZON FLORIDA INC.  
WAYNE SUMNER  
1701 RINGLING BLVD.  
SARASOTA, FL. 34236  
(941) 330-9203  
WAYNE.SUMNER@verizon.com

FLORIDA POWER & LIGHT  
GREG COKER  
1253 12TH AVENUE EAST  
PALMETTO, FL. 34221  
(941) 723-4430  
FAX: (941) 723-4444  
EMERGENCY: 1-800-4-OUTAGE  
Greg.Coker@fpl.com

FLORIDA GAS TRANSMISSION  
SAFETY HARBOR TEAM  
7804 ANDERSON RD.  
TAMPA, FL. 33634  
CHRIS LEE  
(813) 466-3327  
CELL : (727) 639-7512  
christopher.lee@sug.com

BRIGHT HOUSE NETWORKS  
TOM WRIGHT  
5413 E. STATE ROAD 64  
BRADENTON, FL. 34208-5535  
(941) 748-3816 EXT. 21348  
tom.wright@mybrighthouse.com

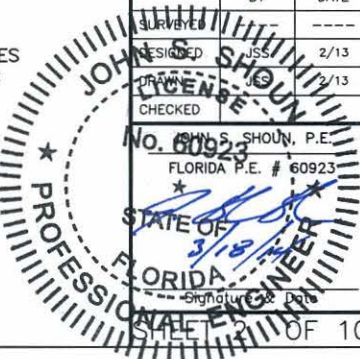
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION  
STEPHANIE BARIOS  
13051 N. TELECOM PKWY  
TEMPLE TERRACE, FL. 33637  
PHONE: (813) 632-7600, EXT.  
408  
FAX: (813) 632-7662

PEACE RIVER ELECTRIC  
COOPERATIVE, INC.  
P.O. BOX 1310  
WACHULA, FL. 33873  
KENDELL COKER  
(863) 767-4560  
kendell.coker@peco.coop

LEGEND

EXISTING		LEGEND	
BM	BENCH MARK	BUSH	ABBREVIATIONS
CM	CONCRETE MONUMENT	TREE	R/W RIGHT OF WAY
IP	IRON PIPE	OAK TREE	CONC CONCRETE
IR	IRON ROD	PALM TREE	ASPH ASPHALT
HUB	HUB	PINE TREE	DRWY DRIVEWAY
N&D	NAIL & DISK	EDGE OF VEGETATION	SWK SIDEWALK
ELEV	ELEVATION	CHAIN LINK FENCE	EP EDGE OF PAVEMENT
PARCEL ID NO.	PARCEL ID NO.	WOOD FENCE	BOC BACK OF CURB
LOT NO.	LOT NO.	BARBED WIRE FENCE	
GW	GUY WIRE	FORCE MAIN	
PP	POWER POLE	POTABLE WATER	
LP	LIGHT POLE	RECLAIMED WATER	
MB	MAIL BOX	SANITARY SEWER	
SN	SIGN	STORM DRAIN	
REF	REFLECTOR	GAS LINE	
SPRK	SPRINKLER	OVERHEAD TV	
GM	GAS MARKER	UNDERGROUND TV	
BFP	BACKFLOW PREVENTER	OVERHEAD ELECTRIC	
BO	BLOW OFF VALVE	UNDERGROUND ELECTRIC	
FH	FIRE HYDRANT	OVERHEAD VERIZON	
WV	WATER VALVE	UNDERGROUND VERIZON	
ARV	AIR RELEASE VALVE	VERIZON	
WM	WATER METER	UNDERGROUND UTILITY	
SMH	SANITARY SEWER MANHOLE	OVERHEAD UTILITY	
CO	SANITARY SEWER CLEAN OUT	RAIL ROAD TRACKS	
SB#1	SOIL BORING LOCATION	EDGE OF CONCRETE	
TEL	TELEPHONE SERVICE BOX	EDGE OF ROAD	
GI	GRATE INLET	TOE OF SLOPE	
	MITERED END SECTION	TOP OF BANK	
		PROPERTY LINE	
		RIGHT OF WAY	

PROPOSED PROJECT NOTES  
JOB SPECIFIC (EXAMPLE):  
WATER LINE CALL-OUT  
(TYPICAL)  
STA. 40+60, 17' LT.  
1-6" GATE VALVE  
1-6" FITTING

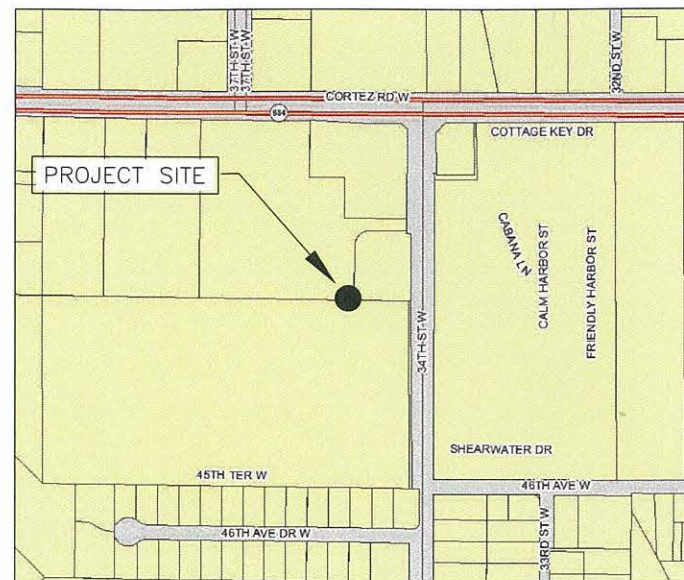


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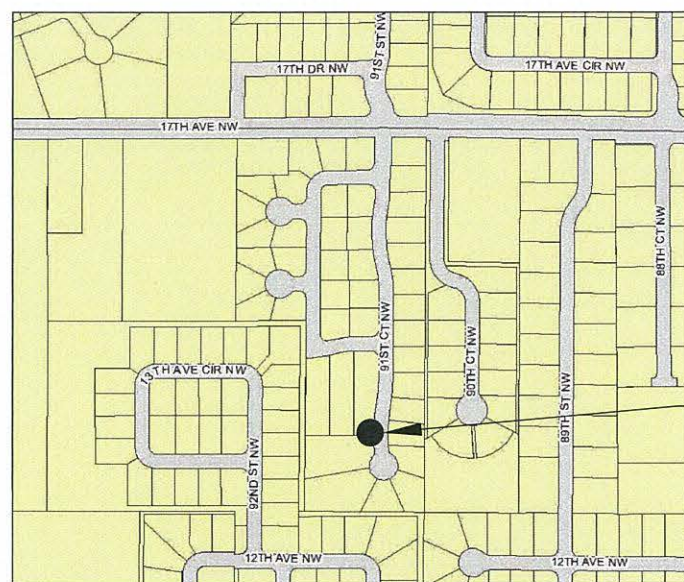
SATELLITE LIFT STATION R&R  
2014 GROUP 1  
GENERAL NOTES & LEGEND

REVISION DESCRIPTION		DATE
NO.	BY	
PROJECT #	402-0019707 / 5001301	
SURVEY #	-	
SEC./TWN./RGE	-	
SCALE	N.T.S.	
BY		DATE
DESIGNED		JSS 2/13
DRAWN		JSS 2/13
CHECKED		
No. 60923		
JOHN S. SHOUN, P.E.		
FLORIDA P.E. # 60923		
3/18		
PROFESSIONAL ENGINEER		
STATE OF FLORIDA		
Signature		
OF 10		





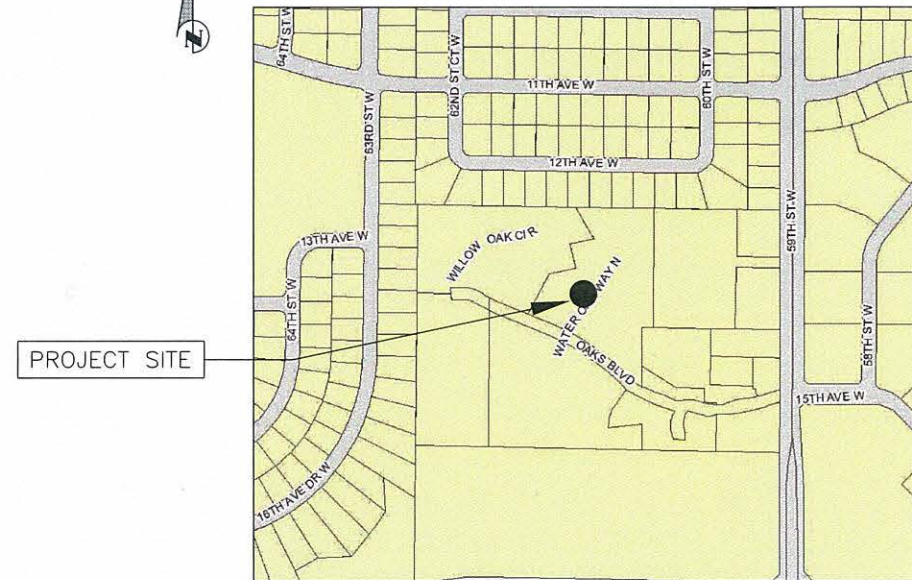
COLLEGE PLAZA, RTU 113, 4408 34TH ST. W.



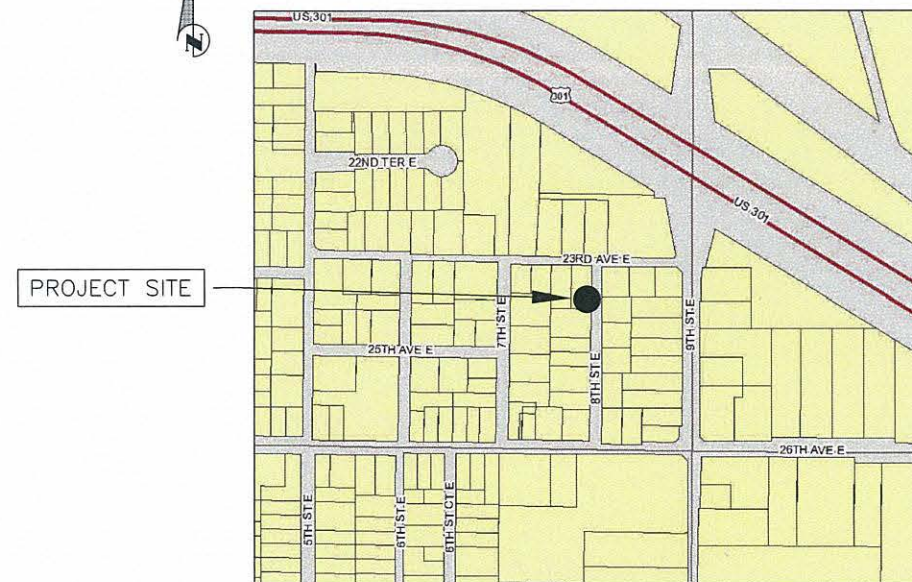
FIDDLER'S GREEN, RTU 250, 1312 91ST ST. CT. NW.

NOTE(S):

1. LIFT STATION SITE VISITS MAY BE COORDINATED WITH NICK WAGNER, 941-755-1853 x5377.



THE OAKS, RTU 212, 1300 WATER OAK WAY

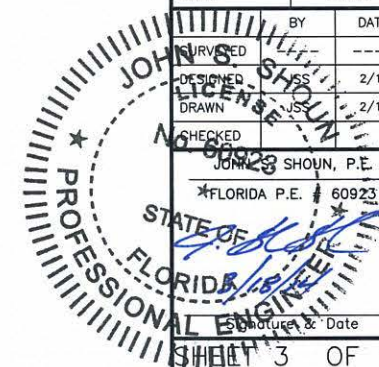


S-2, RTU 338, 2312 8TH ST. E.

THESE PLANS HAVE BEEN DESIGNED ON 11x17 SHEETS

**SATELLITE LIFT STATION R&R  
2014 GROUP 1  
VICINITY MAPS**

REVISION DESCRIPTION				BY	DATE
NO.					
PROJECT #		402-0019707 / S001301			
SURVEY #		-			
SEC./TWN./RGE		-			
SCALE		N.T.S.			
DESIGNED		BY	DATE		
DRAWN			2/13		
CHECKED			2/13		
JOHN S. SHOWN, P.E.					
*FLORIDA P.E. #		60923			
STATE OF FLORIDA					
LICENSED PROFESSIONAL ENGINEER					
Signature &		Date			
SHEET 3 OF 10					





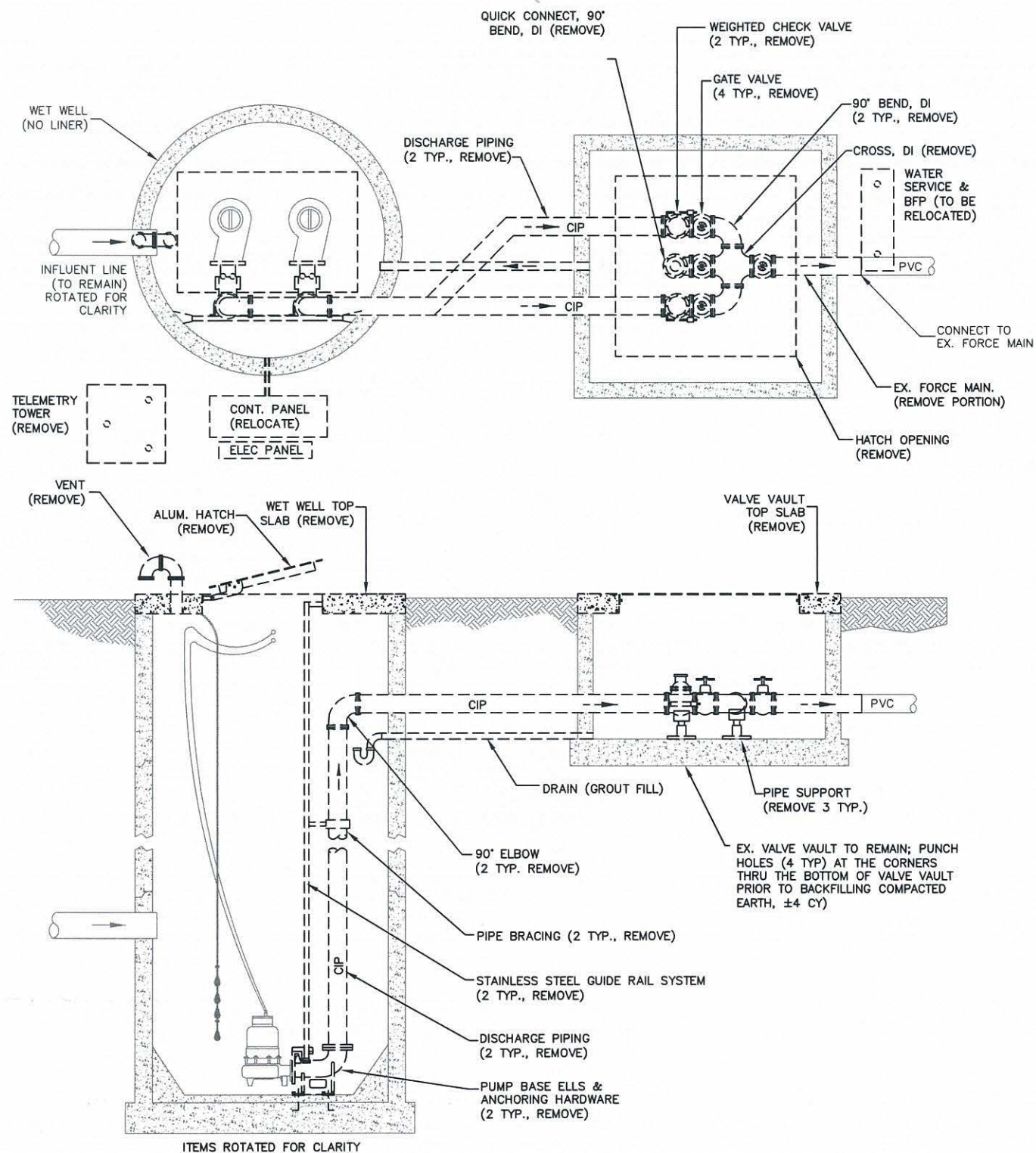
# EXISTING

## NOTES:

1. THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY.
2. THE CONTRACTOR/BIDDER SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
3. THE CONTRACTOR/BIDDER SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS.
4. REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR
5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED.
7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING CONDITIONS.
8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE.
9. CONTRACTOR SHALL TRIM SURROUNDING BRUSH AWAY FROM LIFT STATION SITE EQUIPMENT.

RADIO TELEMETRY UNIT (RTU)	113
L.S. DESIGN CAPACITY GPM/TDH	100 / 15
DISCHARGE PIPING DIAMETER	4"
WET WELL DIAMETER	6'
BOTTOM SLAB ELEVATION	8.39
TOP ELEVATION	19.06
VALVE VAULT HATCH ELEVATION	19.06
INFLUENT INVERT ELEVATION	12.06
INFLUENT PIPE SIZE	8"
FORCE MAIN DIAMETER	4"
WET WELL VENT PIPE	DIP

INFORMATION TAKEN FROM LIFT STATION DATA FILE (LSINFO.XLS 2013) & RECORD DRAWINGS

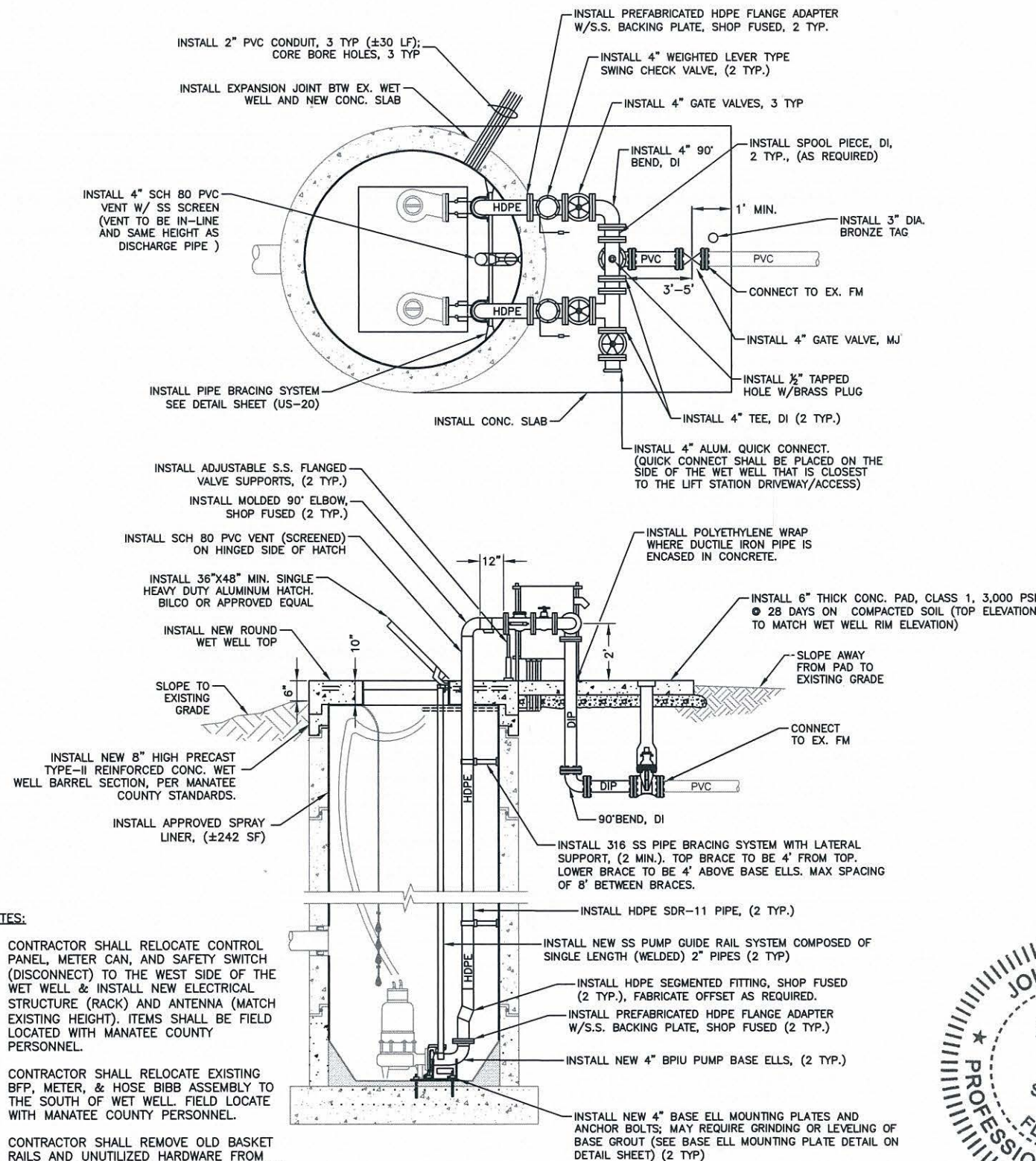


# PROPOSED

## GENERAL NOTES:

1. CONTRACTOR SHALL NOT BACKFILL OVER ELECTROFUSED COUPLINGS UNTIL INSPECTOR HAS VISUALLY CHECKED IT FOR LEAKS DURING PUMP STARTUP OR PRESSURE TEST AS DIRECTED BY THE ENGINEER.
2. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS.
3. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL BE NOT MORE THAT 1/4" UNDER A TEN FOOT (10') STRAIGHTEDGE, NOT MORE THAN 1/8" ON A FIVE FOOT (5') TRANSVERSE SECTION. THE EDGE OF THE CONCRETE PAD SHALL BE CAREFULLY FINISHED WITH A EDGING TOOL HAVING A RADIUS OF 1/2".
4. EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONC. PAD AND THE WET WELL SHALL BE 1/2" MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213.
5. THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE PAD EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS, INC. ABOVE GROUND VALVE ASSEMBLY & PIPING SHALL BE PAINTED, RUSTOLEUM 7538 HUNTER GREEN. CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID OVER-SPRAY ONTO THE VALVE ASSEMBLY CONCRETE PAD.
6. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM, MISCELLANEOUS WORK.

INSTALL FIBERGLASS W.W. LINER	NO
APPLY SPRAY LINER W.W. LINER	YES
INSTALL STILLING WELL	NO
INSTALL FORCE MAIN G.V.	YES
NEW HDPE PIPING IN W.W.	YES, 4"
NEW BASE ELL	4" BPIU-14
RAISE TOP OF WET WELL	YES, 8"
RAISE TOP OF VALVE VAULT	NO
REPLACE WET WELL VENT PIPE	YES
UPGRADE BFP TO STANDARD, US-15	NO
RELOCATE WATER SERVICE ASSEMBLY	YES



## NOTES:

1. CONTRACTOR SHALL RELOCATE CONTROL PANEL, METER CAN, AND SAFETY SWITCH (DISCONNECT) TO THE WEST SIDE OF THE WET WELL & INSTALL NEW ELECTRICAL STRUCTURE (RACK) AND ANTENNA (MATCH EXISTING HEIGHT). ITEMS SHALL BE FIELD LOCATED WITH MANATEE COUNTY PERSONNEL.
2. CONTRACTOR SHALL RELOCATE EXISTING BFP, METER, & HOSE BIBB ASSEMBLY TO THE SOUTH OF WET WELL. FIELD LOCATE WITH MANATEE COUNTY PERSONNEL.
3. CONTRACTOR SHALL REMOVE OLD BASKET RAILS AND UNUTILIZED HARDWARE FROM WET WELL PRIOR TO APPLYING NEW SPRAY LINER.



1022 26th Avenue East  
Bradenton, FL 34208

THESE PLANS HAVE BEEN DESIGNED ON 11x17 SHEETS

SATELLITE LIFT STATION R&R  
2014 GROUP 1  
COLLEGE PLAZA, RTU 113

NO.	REVISION DESCRIPTION	DATE	BY
1	PROJECT #	402-0019707	
2	SURVEY #	5005102	
3	SEC./TWN./RGE	09/35/17	
4	SCALE	N.T.S.	
5	BY	DATE	
6	DESIGNED	JSS	2/13
7	CHECKED	JSS	2/13
8	APPROVED	JOHN S. SHOUN, P.E.	
9	FLORIDA P.E. #	60923	
10	SIGNATURE	DATE	





# EXISTING

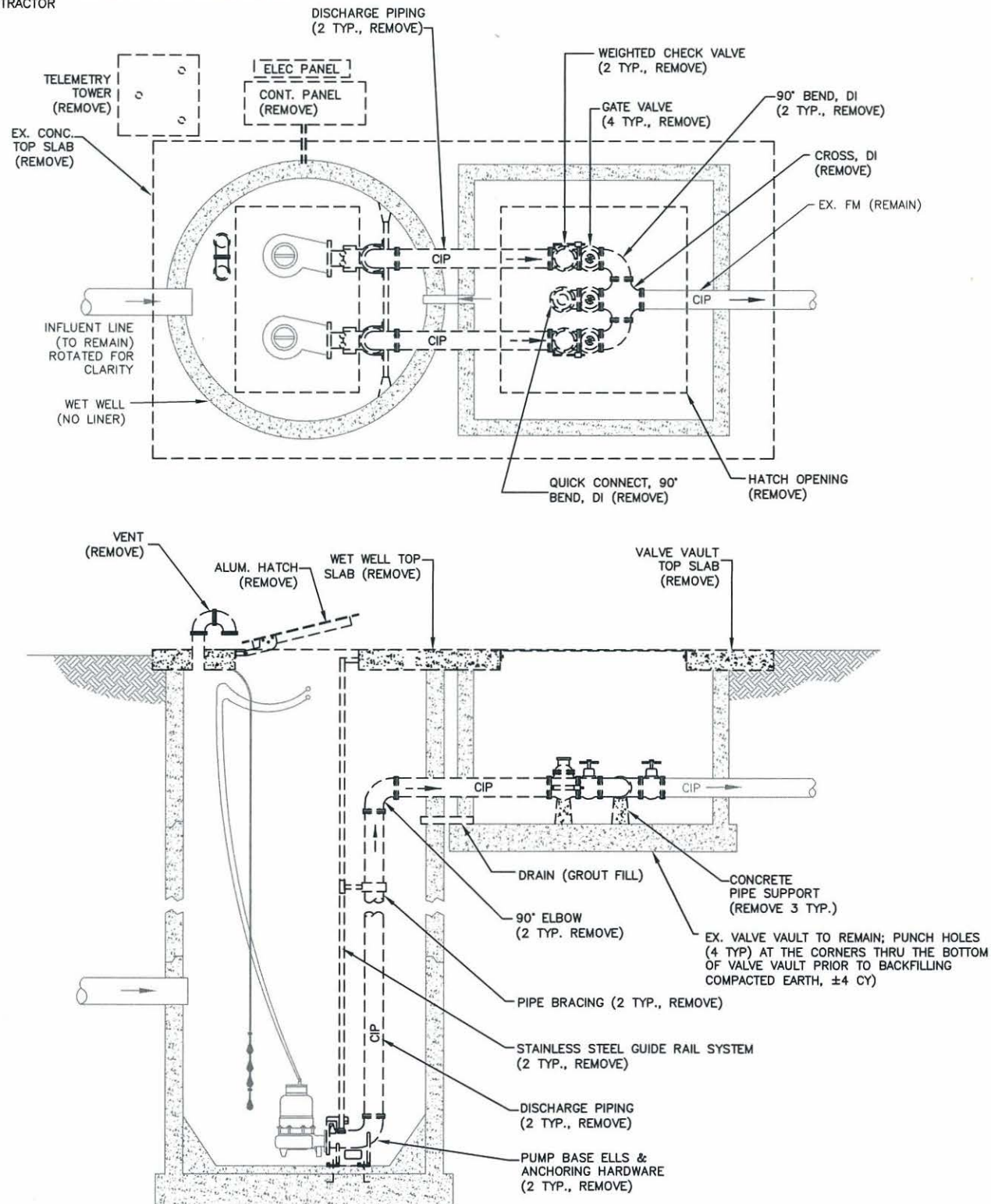
## NOTES:

1. THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY.
2. THE CONTRACTOR/BIDDER SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
3. THE CONTRACTOR/BIDDER SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS.
4. REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR

5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED.
7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING OR DESIGN CONDITIONS.
8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE.

RADIO TELEMETRY UNIT (RTU)	212
L.S. DESIGN CAPACITY GPM/TDH	100 / 26
DISCHARGE PIPING DIAMETER	4"
WET WELL DIAMETER	6'
BOTTOM SLAB ELEVATION	8.31
TOP ELEVATION	23.50
VALVE VAULT HATCH ELEVATION	23.50
INFLUENT INVERT ELEVATION	12.31
INFLUENT PIPE SIZE	8"
FORCE MAIN DIAMETER	4"
WET WELL VENT PIPE	PVC

INFORMATION TAKEN FROM LIFT STATION DATA FILE (LSINFO.XLS 2013) & RECORD DRAWINGS

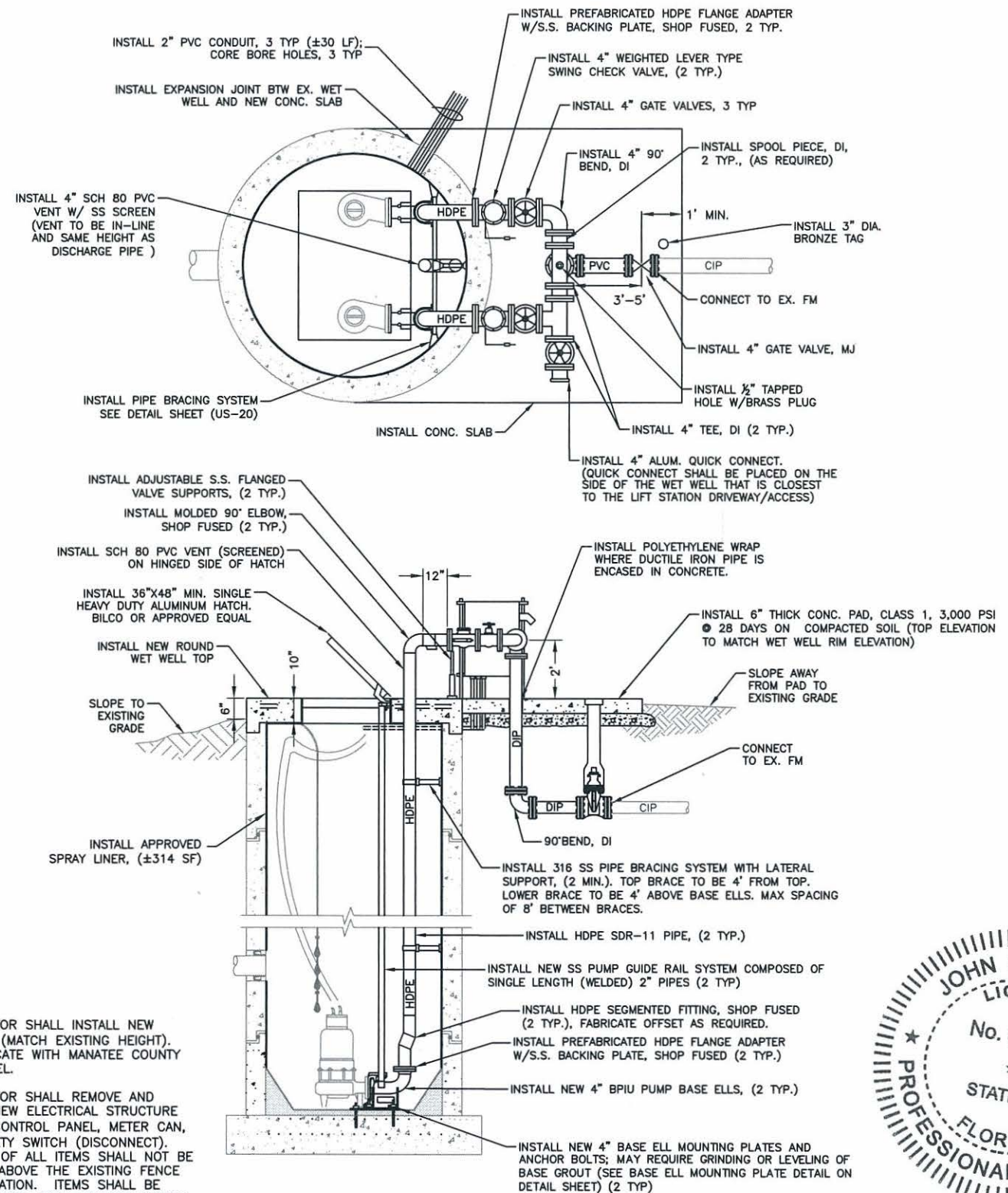


# PROPOSED

## GENERAL NOTES:

1. CONTRACTOR SHALL NOT BACKFILL OVER ELECTROFUSED COUPLINGS UNTIL INSPECTOR HAS VISUALLY CHECKED IT FOR LEAKS DURING PUMP STARTUP OR PRESSURE TEST AS DIRECTED BY THE ENGINEER.
2. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS.
3. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL BE NOT MORE THAT 1/4" UNDER A TEN FOOT (10') STRAIGHTEDGE, NOT MORE THAN 1/8" ON A FIVE FOOT (5') TRANSVERSE SECTION. THE EDGE OF THE CONCRETE PAD SHALL BE CAREFULLY FINISHED WITH A EDGING TOOL HAVING A RADIUS OF 1/2".
4. EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONC. PAD AND THE WET WELL SHALL BE 1/2" MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213.
5. THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE PAD EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS, INC. ABOVE GROUND VALVE ASSEMBLY & PIPING SHALL BE PAINTED, RUSTOLEUM 7538 HUNTER GREEN. CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID OVER-SPRAY ONTO THE VALVE ASSEMBLY CONCRETE PAD.
6. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM, MISCELLANEOUS WORK.

INSTALL FIBERGLASS W.W. LINER	NO
APPLY SPRAY LINER W.W. LINER	YES
INSTALL STILLING WELL	NO
INSTALL FORCE MAIN G.V.	YES
NEW HDPE PIPING IN W.W.	YES, 4"
NEW BASE ELL	4" BPIU-14
RAISE TOP OF WET WELL	NO
RAISE TOP OF VALVE VAULT	NO
REPLACE WET WELL VENT PIPE	YES
UPGRADE BFP TO STANDARD, US-15	NO
RELOCATE WATER SERVICE ASSEMBLY	NO



## NOTES:

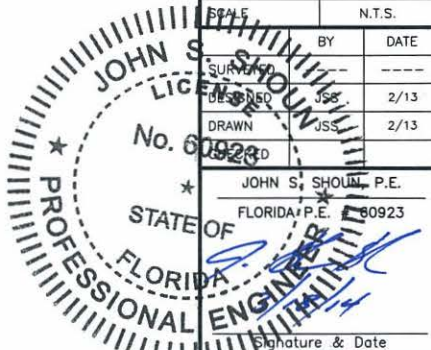
1. CONTRACTOR SHALL INSTALL NEW ANTENNA (MATCH EXISTING HEIGHT). FIELD LOCATE WITH MANATEE COUNTY PERSONNEL.
2. CONTRACTOR SHALL REMOVE AND INSTALL NEW ELECTRICAL STRUCTURE (RACK), CONTROL PANEL, METER CAN, AND SAFETY SWITCH (DISCONNECT). THE TOP OF ALL ITEMS SHALL NOT BE LOCATED ABOVE THE EXISTING FENCE TOP ELEVATION. ITEMS SHALL BE FIELD LOCATED WITH MANATEE COUNTY PERSONNEL.



THESE PLANS HAVE BEEN DESIGNED ON 11x17 SHEETS

SATELLITE LIFT STATION R&R  
2014 GROUP 1  
THE OAKS, RTU 212

NO.	REVISION DESCRIPTION	BY	DATE
1	PROJECT # 402-0019707 / 5005103		
2	SURVEY #		
3	SEC./TWN./RGE 32/34/17		
4	SCALE N.T.S.		
5	BY DATE		
6	DESIGNED JSS 2/13		
7	DRAWN JSS 2/13		
8	JOHN S. SHOWN, P.E. 60923		
9	FLORIDA P.E. 60923		
10	Signature & Date		





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MANATEE COUNTY GOVERNMENT
S:\PWD_Engineering_Share\Util Eng Design\PROJ~S\SUR Proj Son Swr - S Upgrades\SLC R&R 2014 Group 1\DWG's Active-SLS R&R 2014 Grp dwg.dwg FIDDLERS GREEN 3/20/2014 1:48 PM Spec'doun.
- ANSI full bleed B (17.00 x 11.00 inches)

1. THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY.
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5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED.
7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING OR DESIGN CONDITIONS.
8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE.

INFORMATION TAKEN FROM LIFT STATION DATA  
FILE (LSINFO.XLS 2013) & RECORD DRAWINGS

GENERAL NOTES:

1. CONTRACTOR SHALL NOT BACKFILL OVER ELECTROFUSED COUPLINGS UNTIL INSPECTOR HAS VISUALLY CHECKED IT FOR LEAKS DURING PUMP STARTUP OR PRESSURE TEST AS DIRECTED BY THE ENGINEER.
2. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS.
3. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL BE NOT MORE THAT 1/4" UNDER A TEN FOOT (10') STRAIGHTEDGE, NOT MORE THAN 1/8" ON A FIVE FOOT (5') TRANSVERSE SECTION. THE EDGE OF THE CONCRETE PAD SHALL BE CAREFULLY FINISHED WITH AN EDGING TOOL HAVING A RADIUS OF 1/2".
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6. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM. MISCELLANEOUS WORK.



1. CONTRACTOR SHALL INSTALL NEW ANTENNA TO THE WEST SIDE OF THE LIFT STATION SITE. FIELD LOCATED WITH MANATEE COUNTY PERSONNEL.
2. CONTRACTOR SHALL RELOCATE THE EXISTING CONTROL PANEL, REMOVE AND INSTALL NEW ELECTRICAL STRUCTURE (RACK), CONTROL PANEL, METER CAN, AND SAFETY SWITCH (DISCONNECT). ITEMS SHALL BE FIELD LOCATED WITH MANATEE COUNTY PERSONNEL.
3. CONTRACTOR SHALL INSTALL NEW BFP, METER, & HOSE BIBB ASSEMBLY. FIELD LOCATE WITH MANATEE COUNTY PERSONNEL.



THESE PLANS HAVE BEEN DESIGNED ON 11x17 SHEETS

**SATELLITE LIFT STATION R&R  
2014 GROUP 1  
FIDDLER'S GREEN, RTU 250**

NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	402-0019707 / 5003105		
SURVEY #	---		
SEC./TWN./RGE	24/34/16		
SCALE	N.T.S.		

	BY	DATE
SURVEYED	---	---
DESIGNED	JSS	2/13
DRAWN	JSS	2/13
CHECKED		

JOHN S. SHOWN P.E.  
 FLORIDA REG. NO. 60923  
 DAVID L. SHOWN P.E.  
 FLORIDA REG. NO. 60923  
 Signature & Date

SHEET 6 OF 10

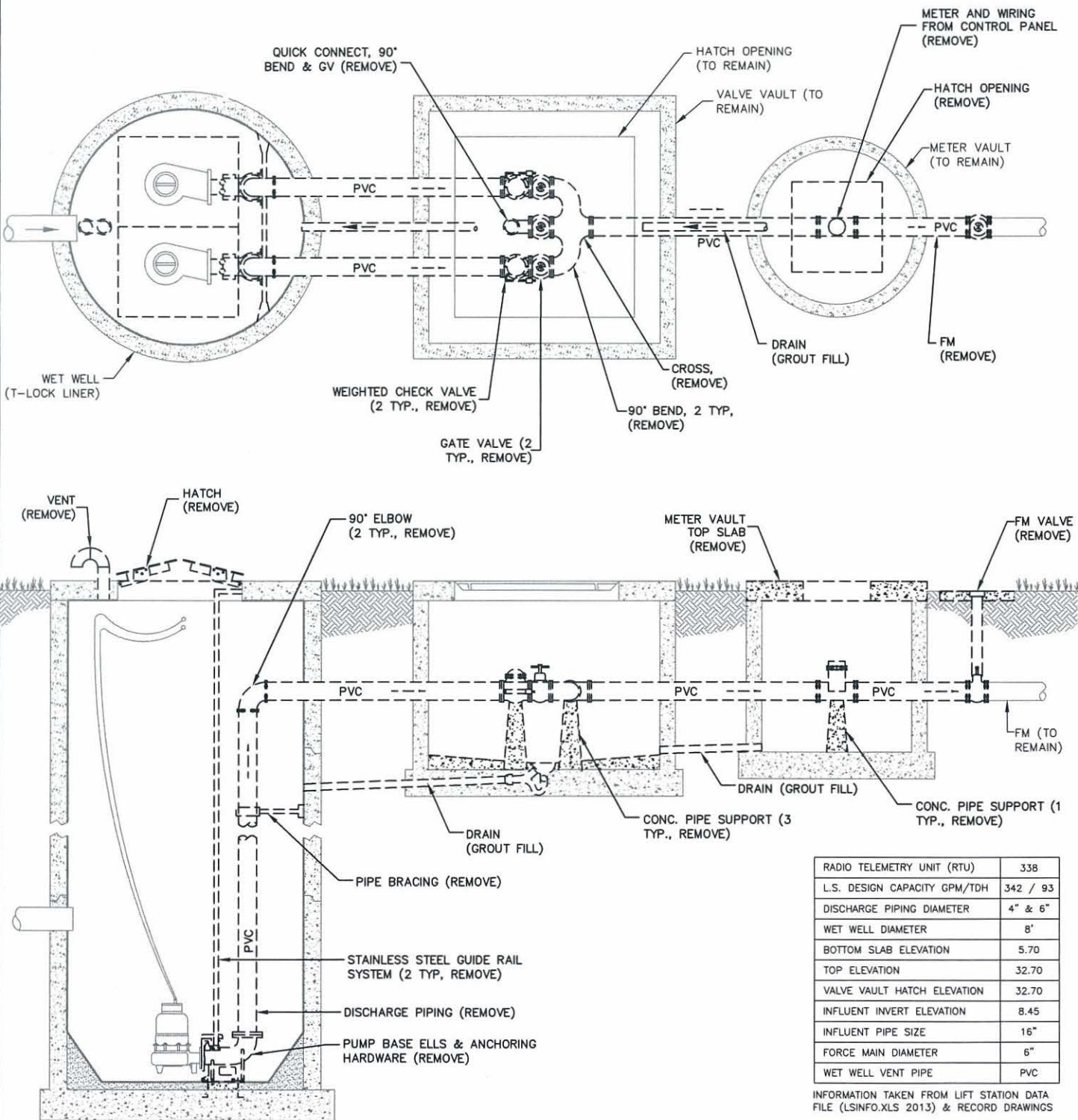


# EXISTING

## NOTES:

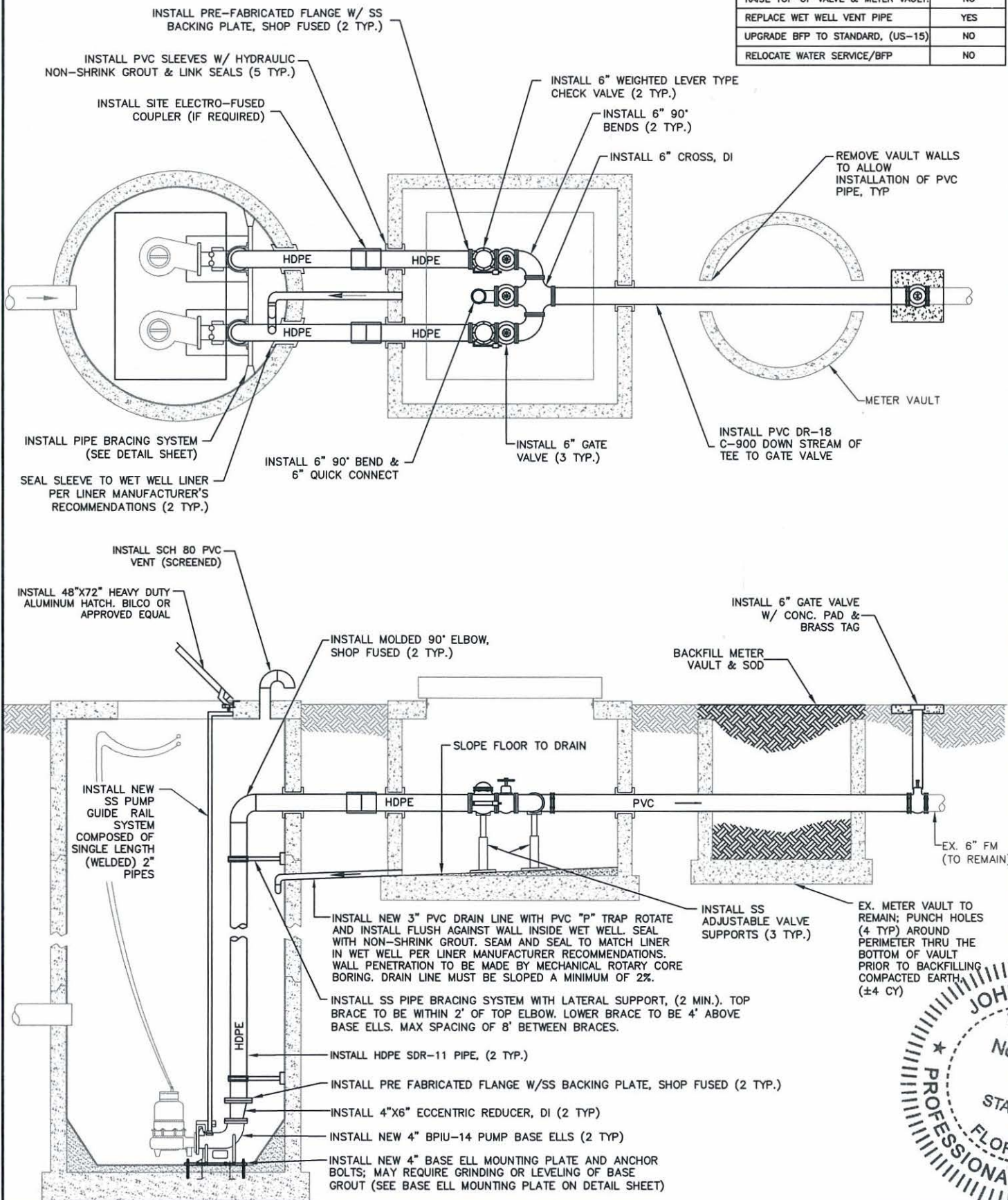
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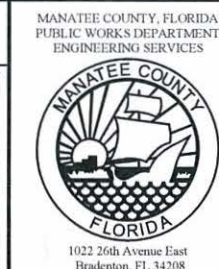
## NOTES:

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2. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS.



# PROPOSED

INSTALL FIBERGLASS W.W. LINER	NO
APPLY SPRAY LINER W.W. LINER	NO
INSTALL STILLING WELL	NO
INSTALL G.V. OUTSIDE OF METER BOX	YES
NEW HDPE PIPING IN W.W.	YES, 6"
NEW BASE ELL	4" BPIU-14
RAISE TOP OF WET WELL	NO
RAISE TOP OF VALVE & METER VAULT	NO
REPLACE WET WELL VENT PIPE	YES
UPGRADE BFP TO STANDARD, (US-15)	NO
RELOCATE WATER SERVICE/BFP	NO



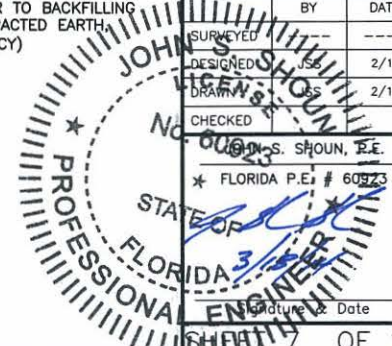
## THESE PLANS HAVE BEEN DESIGNED ON 11x17 SHEETS

### SATELLITE LIFT STATION R&R

### 2014 GROUP 1

### S-2, RTU 338

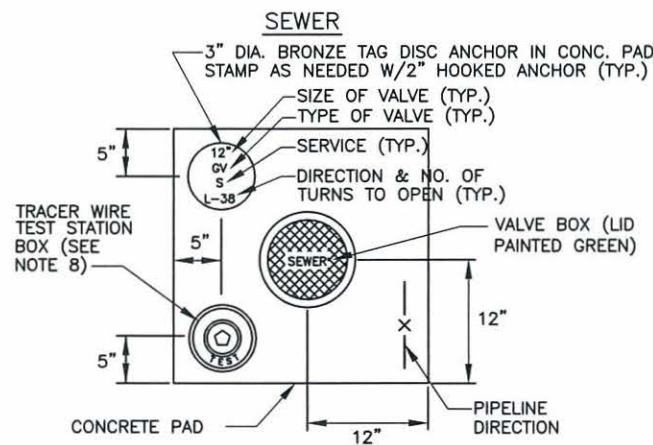
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1	PROJECT # 402-0019707 / 5005106		
2	SURVEY #		
3	SEC./TWN./RGE 36/34/17		
4	SCALE N.T.S.		
5	CHECKED BY DATE		
6	DESIGNED BY DATE		
7	DRAWN BY DATE		
8	FLORIDA P.E. # 60823		
9	DATE		



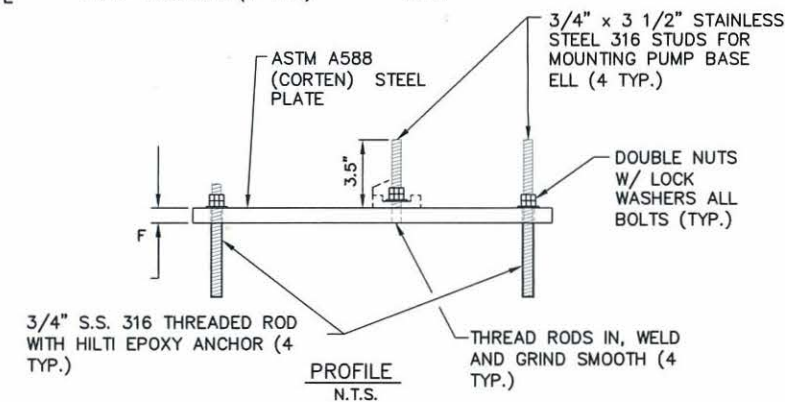
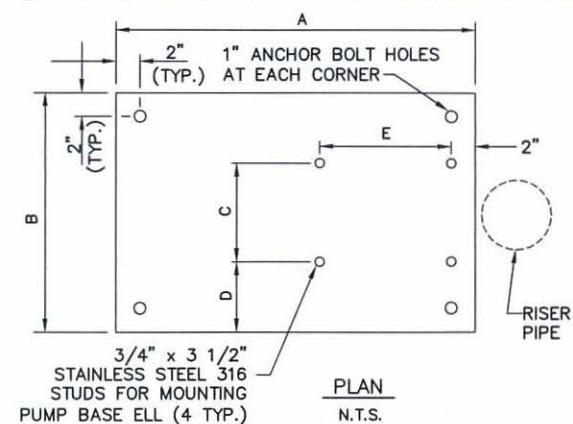


MANATEE COUNTY GOVERNMENT S:\PWD\_Engineering\_Share\Util\_Eng\_Design\BROOKS\SWR\_Proj\San\_Swr - L5 Upgrades\SLS R&R\2014 Group 1\SWOS\active-SLS R&R\2014 Grp 1.dwg,8 Details, 3/18/2014 12:24 PM Sheet:5oun, 1:1, ANSI full bleed B (17.00 x 11.00) inches

- 
- 24"x 24"x 6" CONC. PAD TO BE INSTALLED AT EACH VALVE BOX.
- FINISHED GRADE
- 6"
- 4'-0" MAX.
- 36" MIN. COVER
- #10 COPPER WIRE (CONTINUOUS)
- CENTERING COLLAR AFC PART #B59434
- RESILIENT SEAT (EPDM)
- M.J. GATE VALVE
- SANITARY FORCE MAIN
- TRACER WIRE TEST STATION BOX
- CAST IRON LID
- 4-#3 BARS @  $\pm 5"$  C-C EA. WAY (8-TOTAL)
- BASE MATERIAL
- ADJUSTABLE VALVE BOX AND LID. RUSSELL AMERICAN FLOW CONTROL HDPE TRENCH CAST IRON TOP OR APPROVED EQUAL BY COUNTY.
- WHERE REQUIRED, USE CAST OR DUCTILE BOX EXTENSION WITH STAINLESS STEEL VALVE OPERATOR EXTENSION. ANCHOR EXTENSION OPERATING NUT WITH STAINLESS STEEL BALL. STANDPIPE COLOR TO MATCH COLOR OF 1
- 6" C-900 PVC RISER
- RESTRAINED JOINTS (SEE NOTE 9)



- 
- 6" PVC STILLING WELL (RE-PUMP LIFT STATIONS ONLY)
- RUBBER STRIP BETWEEN PIPE CLAMP AND PIPE
- WET WELL ACCESS OPENING
- S.S. PIPE CLAMPS
- 1/2"x2-1/2" S.S. ANCHOR BOLTS (TYP.)
- S.S. GUSSET PLATE
- S.S. 1-5/8" CHANNEL
- S.S. ANGLE BRACES (TYP.)



DIMENSIONS	A	B	C	D	E	F	G
FOR 6" PUMPS	24"	20"	8.25"	5.875"	11"	3/4"	N/A
FOR 4" PUMPS	20"	16"	6"	5"	10"	1/2"	N/A

- NOTES:**
1. INSTALL DOUBLE NUTS ON ALL EIGHT (8) THREADED RODS.
  2. THE PLATE EDGES AND ALL HOLES SHALL BE GROUND SMOOTH TO REMOVE ALL BURRS.
  3. DIMENSIONS "C" & "E" ARE FOR BARNEY'S PUMPS, INC. BASE ELLS.
  4. FOR PUMPS WITH A 2-INCH DISCHARGE OR LESS, A SINGLE BASE PLATE SHALL BE INSTALLED UNDER BOTH GRINDER PUMPS.

PUMP BASE ELL  
MOUNTING PLATE

GATE VALVE, BOX  
COVER AND TAG  
NTS

WET WELL PIPE BRACING DETAIL  
NTS

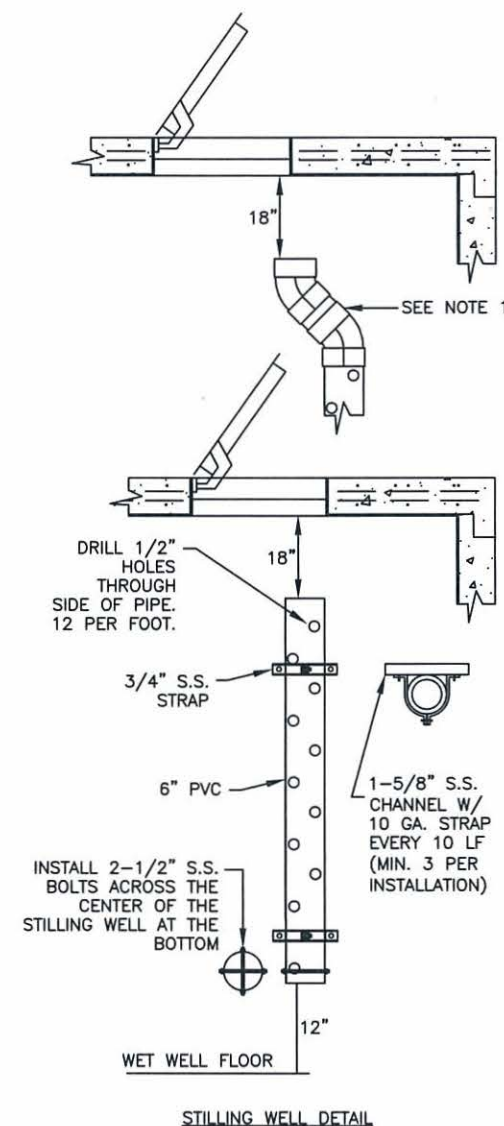


THESE PLANS HAVE BEEN DESIGNED ON 11x17 SHEETS

# SATELLITE LIFT STATION R&R

## 2014 GROUP 1

### DETAILS



### PUMP STATION STILLING WELL DETAILS

NTS

NOTES

1. STILLING WELL FOR LEVEL  
TRANSDUCER REQUIRED FOR RE-PUMP  
STATIONS ONLY. FOR LARGER LIFT  
STATIONS, PROVISIONS SHALL BE MADE  
TO MAKE THE TOP OF THE STILLING  
WELL VISIBLE AND ACCESSIBLE FROM  
THE HATCH OPENING, I.E. 45'  
FITTINGS, ETC.
2. REFER TO STANDARD DETAILS US-17,  
US-18 & US-19 FOR PUMP STATION  
DETAILS.
3. NYLON LOCK NUTS SHALL BE USED  
AT ALL TIMES IN THE WET WELL,  
EXCEPT BASE ELLS & PIPE BRACING  
ANCHOR BOLTS CAN ALSO BE DOUBLE  
NUT.

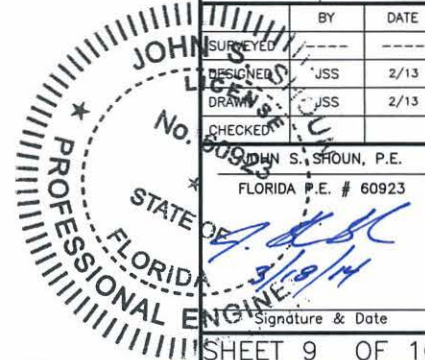
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	BY	DATE
SURVEYED		
DESIGNED	JSS	2/13
DRAWN	JSS	2/13
CHECKED		

JOHN S. SHOUN, P.E.  
FLORIDA P.E. # 60923

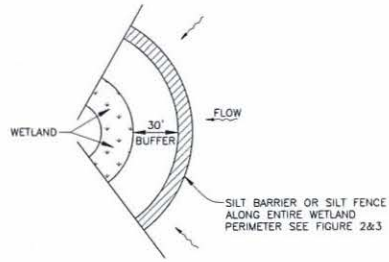
Signature & Date

SHEET 9 OF 1

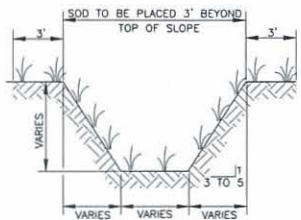




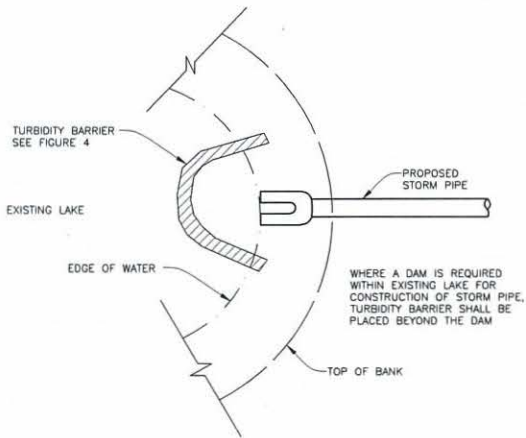
COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT | 515 VMD\_Engineering\_Shore\JUL Eng Design\PROJ\15-SAT SMR Proj\Sat Smr - L3 Upgrade\313 R&R 2014 Grp 1.dwg, 10 Erosion Control, 3/18/2014 12:24 PM Shea Shoun, 1:1, ANSI full bleed B (17.00 x 11.00 inches)



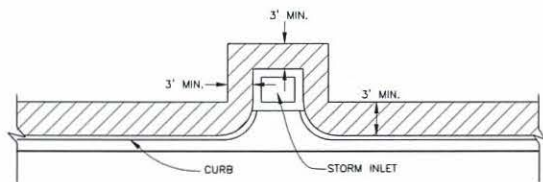
WETLAND BUFFER  
FIGURE 1



TYPICAL SWALE SECTION  
FIGURE 5

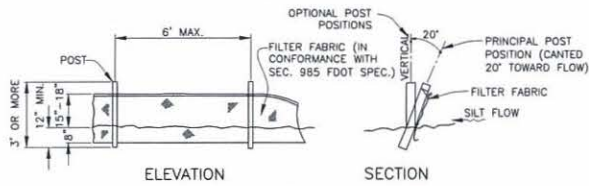


TURBIDITY BARRIER AT CONNECTION OF  
STORM PIPE TO EXISTING LAKE  
FIGURE 9



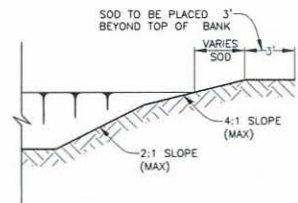
SOD ALONG CURB  
AND AROUND INLET  
FIGURE 14

NOTE:  
REFERENCE THE FDOT DESIGN STANDARDS  
LATEST EDITION FOR ALL TEMPORARY  
EROSION CONTROL MEASURES.

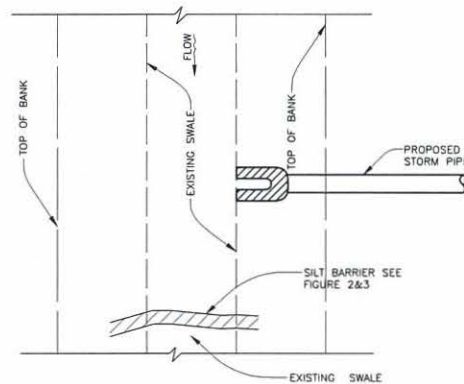


NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

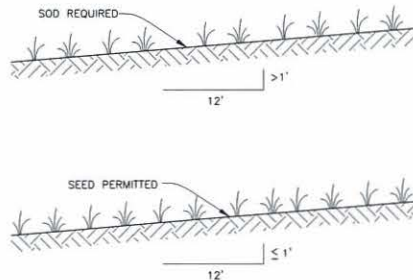
TYPICAL SILT FENCE  
FIGURE 2



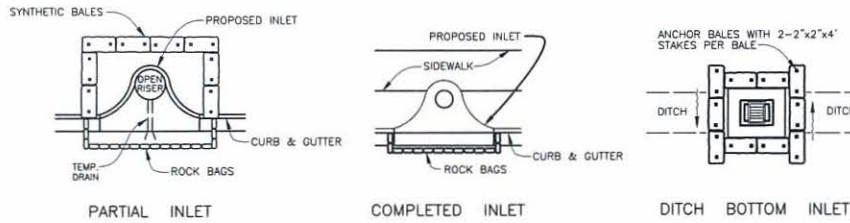
TYPICAL RETENTION/DETENTION POND SECTION  
FIGURE 6



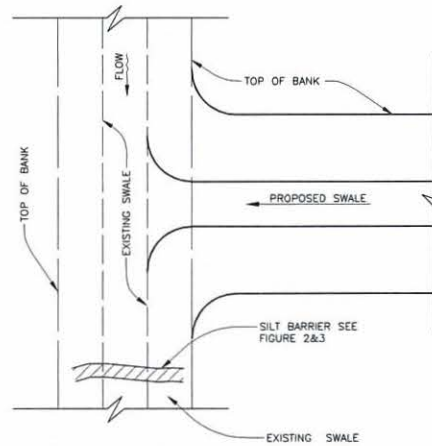
SILT BARRIER AT CONNECTION OF  
STORM PIPE TO EXISTING SWALE  
FIGURE 10



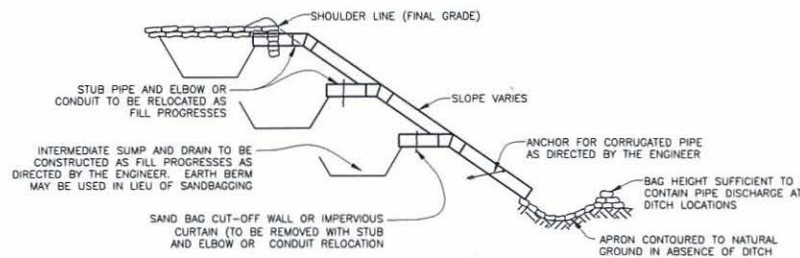
GRASS SLOPES  
FIGURE 13



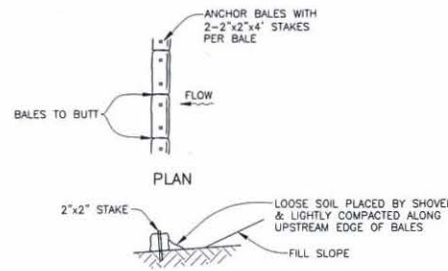
SYNTHETIC BALE PROTECTION AROUND  
INLETS OR SIMILAR STRUCTURES  
FIGURE 7



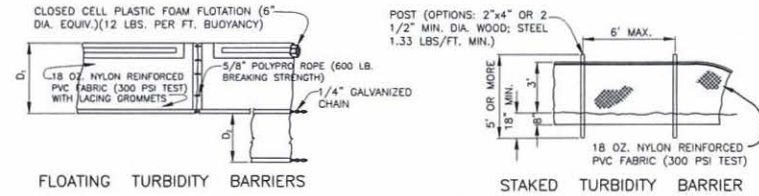
SILT BARRIER AT CONNECTION  
OF SWALE TO EXISTING SWALE  
FIGURE 11



SECTION AA  
TEMPORARY SLOPE DRAIN  
FIGURE 15



TYPICAL BALE SILT BARRIER  
FIGURE 3

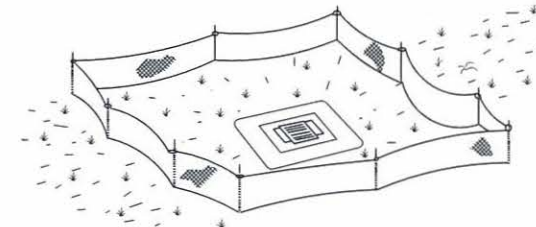


FLOATING TURBIDITY BARRIERS

STAKED TURBIDITY BARRIER

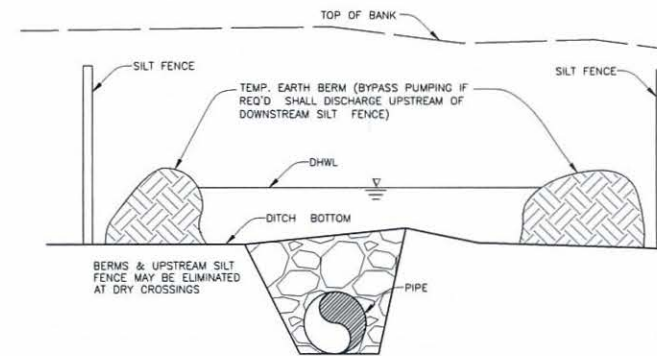
NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

TURBIDITY BARRIERS  
FIGURE 4

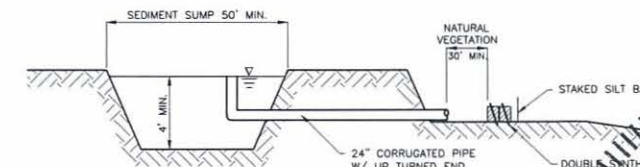


TYPE III SILT FENCE PROTECTION  
AROUND DITCH BOTTOM INLETS

STAKED SILT BARRIER OR SILT FENCE  
PROTECTION AROUND DITCH BOTTOM INLETS  
FIGURE 8



UNDERGROUND PIPE CROSSING  
FIGURE 12



SEDIMENT SUMP SECTION  
FIGURE 16

THESE PLANS HAVE BEEN DESIGNED ON 11x17 SHEETS

SATELLITE LIFT STATION R&R  
2014 GROUP 1  
EROSION CONTROL

NO.	REVISION DESCRIPTION	BY	DATE
1	PROJECT # 402-0019707 / 5001301		
2	SURVEY #		
3	SEC./TWN./RGE		
4	SCALE N.T.S.		
5	BY	DATE	
6	DESIGNED	2/13	
7	DRAWN	2/13	
8	CHECKED		
9	JOHN S. SHOUN, P.E.		
10	FLORIDA P.E. # 60923		
11	Signature & Date		