SATELLITE LIFT STATION R&R **2023 GROUP 1** 402-0019707 / 5001301

L.S. NAME	RTU	ADDRESS	PROJECT JL NO.	INFLUENT MH
*WINN DIXIE PLAZA WEST	159	3534 53RD AVE. W, BRADENTON	402.5163880	PRIVATE
18-AC	486	6510 14TH ST. W, BRADENTON	402.5163881	PUBLIC
TIDEVUE 2	502	4405 10TH ST. CT. E., ELLENTON	402.5163882	PUBLIC
PORT MANATEE STOCKADE	556	14490 HARLEE RD., PALMETTO	402.5163883	PUBLIC
LAKEWOOD RANCH REPUMP	603	8155 LAKEWOOD RANCH BLVD., BRADENTON	402.5163884	PUBLIC

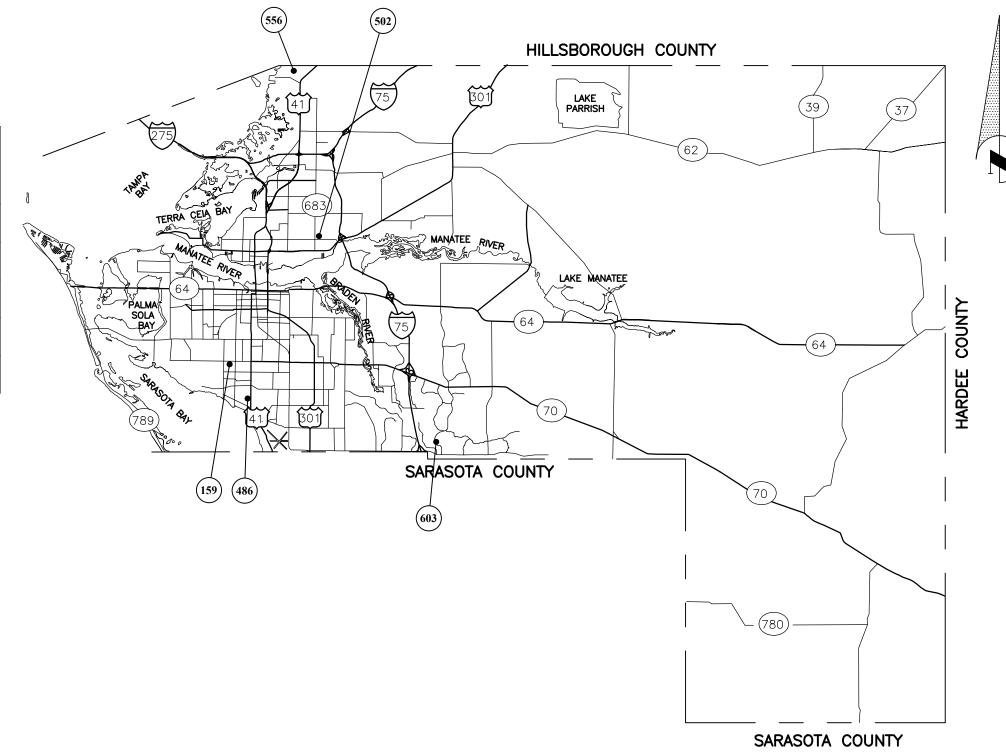
(*) THE MANHOLE ADJACENT TO THE LIFT STATIONS IS PRIVATELY OWNED AND MAINTAINED AND CAN NOT BE UTILIZED FOR BYPASS PUMPING.

PROJECT DESCRIPTION

REHABILITATE SEWAGE LIFT STATIONS (AND/OR MANHOLES) TO REDUCE RISK TO PUBLIC HEALTH AND ENVIRONMENTAL POLLUTION. THE WORK SHALL CONSIST OF, BUT NOT LIMITED TO, UPGRADE OR FULL REPLACEMENT OF THE ELECTRICAL CONTROL EQUIPMENT, WET WELL CLEANING, THE REPLACEMENT OF DISCHARGE PIPING, FITTINGS, VALVES, SWING CHECK VALVES, GUIDE RAILS, PIPE BRACINGS, BASE ELLS, AND/OR MOUNTING PLATES. WET WELL LINER MAY NEED TO BE INSTALLED, REPAIRED OR REPLACED. SEE INDIVIDUAL PLAN SHEETS FOR SPECIFIC REHABILITATION AND INSTALLATIONS REQUIREMENTS FOR EACH LIFT STATION.



December, 2022



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CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.	THE RECORD DRAWINGS TO THE COUNTY PROJECT MANAGER AND/OR INSPECTOR ON DEMAND AS THE WORK PROGRESSES.
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. 34. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING	63. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS OF THE WORK AS CONSTRUCTED. AS-BUILT DRAWINGS SHALL INCLUDE THE LOCATION OF ABANDONED MAINS CUT AND PLUG POINTS. AS-BUILT DRAWINGS SHALL BE ANNOTATED EACH DAY AS THE WORK PROCEEDS AND SHALL BE AVAILABLE TO THE COUNTY PROJECT MANAGER AND/OR FIELD INSPECTOR FOR REVIEW ON AN ONGOING BASIS. AS-BUILT DRAWINGS SHALL PROVIDE THE HORIZONTAL AND VERTICAL INSTALLED LOCATION OF ALL NEW PIPELINE, FITTINGS, VALVES AND APPURTENANCES REFERENCED TO FIXED SURFACE FEATURES THAT ARE SHOWN ON THE CONSTRUCTION DRAWINGS AND/OR RIGHT-OF-WAY LINES, PROPERTY CORNERS OR OTHER SURVEYED POINTS. THE CONTRACTOR SHALL BE ABLE TO PRESENT
CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ANY RELATED COSTS. 33. 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	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 1.15 SHALL BE <u>STRICTLY</u> ENFORCED. A COPY OF SECTION 1.15 CAN BE PROVIDED UPON REQUEST.
THE COUNTY. ALL EXISTING AND PROPOSED VALVE COVERS, RIMS, ETC, SHALL BE BROUGHT TO FINAL GRADE OF THE PROJECT AREA. 32. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED, OR OFFERED BY AN EXISTING UTILITY, (I.E. 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	61. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
31. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER/RECLAIM/SEWER LINES, STORM DRAINS, OTHER 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	60. 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.
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.	59. 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.
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,	58. 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.
COVERS, ETC. 30. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE	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, WBRD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.
<u>UTILITIES</u> 29. ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT ALL TIMES, I.E. VALVES, MANHOLE	57. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN THE-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
28. 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.	 56. ALL PENETRATIONS OF EXISTING STRUCTURES SHALL BE BY MECHANICAL ROTARY CORE DRILLING METHOD. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY. 57. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING
27. 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.	55. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
26. 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.	54. 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.
25. 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.	53. 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.
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.	SHOWN ON THE DETAIL SHEETS. 52. 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.
 23. 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. 24. THE CONTRACTOR. PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC. MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE 	50. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED. 51. 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.
22. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.	49. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
21. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS. <u>RIGHT-OF-WAY</u>	48. 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. MODIFICATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD.
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.	 46. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA. 47. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
19. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED. 20. 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	45. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES. 46. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
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. 19. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR	PART OF DAILY CLEAN UP. 44. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
WITHIN THREE (3) DAYS OF EXCAVATION. 18. 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,	AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER. 43. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEPT DAILY AS
DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION. 17. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED	CONSTRUCTION 42. 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
16. 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	41. 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. RESTORATION EFFORTS SHALL BE INCLUDED IN THE PROJECT SCHEDULING AND PHASING PLAN TO DEMONSTRATE HOW THE RESTORATION WILL BE ACHIEVED.
15. 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.	40. ALL EXISTING SIGNING, THERMOPLASTIC PAVEMENT MARKINGS, ETC SHALL BE RESTORED/PROVIDED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MUTCD, FDOT DESIGN STANDARDS AND THE MANATEE COUNTY PUBLIC WORKS DEPARTMENT HIGHWAY, TRAFFIC AND STORMWATER STANDARDS, AND/OR AS DIRECTED BY THE COUNTY.
14. 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.	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. LIME ROCK BASE SHALL COME FROM AN APPROVED FDOT PIT.
TABLE 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.	 38. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE MANATEE COUNTY PUBLIC WORKS STANDARDS PART 3. HIGHWAY & TRAFFIC STANDARDS MANUAL DATED JUNE 2015, SECTION 3.7 DRIVEWAYS AND SECTION 3.8 SIDEWALKS AND/OR THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN AND THE F.D.O.T. DESIGN STANDARDS. CONCRETE WITH A 3,000 PSI @ 28 DAYS SHALL BE USED. 39. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS
PROVIDING A CONTINUOUS SAFE WORKSPACE.	37. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513 OF THE INFRASTRUCTURE ENGINEERING STANDARD SPECIFICATION.
11. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.	36. 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.
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.	35. 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.
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 REALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR	<u>RESTORATION</u> 34. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
SECTION 01310 OF THE SPECIFICATIONS.	F. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION STAFF & PRIVATE PROPERTY OWNER AS REQUIRED. CROSS CONNECTION STAFF SHALL DETERMINE WHICH PROPERTIES REQUIRE A BPA AND TYPE OF BPA TO BE INSTALLED.
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	D. ALL BPA SHALL BE INSTALLED 4–5 FEET FROM THE EDGE OF DRIVEWAYS OR ANY OTHER ITEMS/FEATURES THE BPA MAY CREATE AN OBSTRUCTION. E. VACUUM BREAKERS SHALL BE INSTALLED ON ALL EXTERNAL HOSE BIBBS.
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	C. IF IN-GROUND IRRIGATION SYSTEM IS CONNECTED TO THE POTABLE WATER LINE, AN ADDITIONAL REDUCED PRESSURE (RP) BPA SHALL BE INSTALLED AT THE POINT OF CONNECTION.
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.	VALVE, WHERE NORMAL SUPPLY PRESSURE EXCEEDS 80 PSI. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION CONTROL STAFF AS REQUIRED.
 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. 	B. A LICENSED PLUMBER SHALL INSTALL THE BPA'S IN ACCORDANCE WITH THE CURRENT FLORIDA PLUMBING CODE AND MANATEE COUNTY CODE OF ORDINANCES, AND SHALL SELECT A PRESSURE RELIEF VALVE WITH AN APPROPRIATE PRESSURE SET POINT TO PROTECT THE CUSTOMERS' PLUMBING AND NOT ALLOW EXCESSIVE LEAKAGE DUE TO SYSTEM SUPPLY PRESSURE. A PRESSURE REDUCING VALVE MAY BE NECESSARY UPSTREAM OF THE PRESSURE RELIEF
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.	• COMMERCIAL, INDUSTRIAL, MULTISTORY OR MULTIFAMILY RESIDENTIAL FACILITY, • CROSS CONNECTION IS FOUND, • FOUNTAIN WITH A DEDICATED FILL PIPE, • FIRE SPRINKLER SYSTEM.
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.	 PROPERTY THAT ABUTS A BODY OF WATER, INCLUDING RIVER, BAY, LAKE OR POND ON THE PROPERTY OR BORDERING THE PROPERTY, FLOOD ZONE DESIGNATION, (IF ONLY FLOOD ZONE, INSTALL A DOUBLE CHECK BPA), SOLAR WATER HEATING SYSTEM,
THE PROJECT MANAGER IS: ANTHONY BENITEZ, P.E. AND CAN BE REACHED AT 941.708.7450 x7333. 2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS.	•SWIMMING POOL, •IN-GROUND IRRIGATION SYSTEM OR UNDERGROUND SPRINKLERS, •SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL),
1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION.	RELIEF VALVE AT THE POTABLE WATER METER WHENEVER ANY OF THE FOLLOWING CONDITIONS EXIST AT A PROPERTY:

NOTES

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SATELLITE LIFT STATION R&R

64. THE FOLLOWING IDENTIFIES THE QUALITY LEVEL OF EXISTING UTILITY LINEWORK ON PLANS. LEVEL "A" -VISUALLY LOCATED OR SOFT DIGS (HORIZONTAL AND VERTICAL) LEVEL "B" - DESIGNATED BY GPR OR FLAGGING (HORIZONTAL) LEVEL "C" -SURFACE VISIBLE FEATURES SURVEY LEVEL "D" -EXISTING RECORDS OR GIS

REFERENCE 2010 EDITION OF FDOT UTILITY ACCOMMODATION MANUAL (UAM)

EXISTING UTILITY LOCATIONS

MAINTENANCE OF TRAFFIC

ARE CONCEPTUAL.

CLOSURES OR DETOURS.

SEPARATE PAYMENT.

STANDARD INDEX 600.

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COST OF PIPE.

65. THE CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROL PLAN (TCP) IMPLEMENTED. THE TCP SHALL BE PREPARED BY AN INDIVIDUAL CERTIFIED TO PREPARE A TCP IN THE STATE OF FLORIDA THAT MEETS OR EXCEEDS THE REQUIREMENTS OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS LATEST EDITION (SERIES 600). ANY DEVIATIONS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SUBMITTED TO COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.

66. THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHT-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN (TCP). 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 TCP SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

67. THE CONTRACTOR SHALL USE, BUT ARE NOT LIMITED TO, FDOT INDICES 415, 600, 615, 616, AND 621. THE RECOMMENDED FDOT DESIGN STANDARD INDICES

68. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY DRAINAGE. THERE WILL BE NO DIRECT PAY FOR THIS WORK. COSTS SHALL BE INCLUDED IN THE

69. MOTORIZED AND MECHANICAL EQUIPMENT SHALL BE EFFECTIVELY SHIELDED, PADDED, OR LOCATED TO MINIMIZE NOISE.

70. THE CONTRACTOR WILL NOTIFY ALL EMERGENCY AND RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF ANY PROPOSED LANE

71. ACCESS TO ALL SIDE STREETS AND DRIVEWAYS MUST BE PROVIDED AND MAINTAINED DURING CONSTRUCTION.

72. USE FDOT INDEX NO. 619 FOR TRAFFIC CONTROL MEASURES WHEN CONSTRUCTION EQUIPMENT IS DRIVEN ON OPEN TRAVEL LANES. THE REGULATORY SPEED IN WORK ZONES SHOULD BE AS CLOSE TO NORMAL CONDITIONS AS POSSIBLE, UNLESS NOTED ON THE TRAFFIC CONTROL PLANS. 73. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO WORKING NEAR THEIR EXISTING FACILITIES.

74. CONSTRUCTION SEQUENCES SHALL BE COORDINATED TO PROVIDE POSITIVE DRAINAGE OF THE TRAVELWAYS AT ALL TIMES.

75. ANY MOT ITEM NOT SPECIFICALLY LISTED UNDER A PARTICULAR PAY ITEM SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. THERE SHALL BE NO

76. THE MAXIMUM SPACING BETWEEN WARNING DEVICES USED FOR DELINEATION BETWEEN THE TRAVELWAY(S) AND CONSTRUCTION AREA SHALL BE AS PER FDOT

77. ALL DETOURS, IF APPROVED BY THE COUNTY, SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D. LATEST EDITION) AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION (600 SERIES). ANY DETOUR RECOMMENDED BY THE CONTRACTOR MUST BE SUBMITTED TO THE COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.

		LEGEND		
EXIS	STING			
BENCH MARK	Eval.	BUSH	А	BBREVIATIONS
CONCRETE MONUMENT		TREE		
IRON PIPE		OAK TREE	R/W	RIGHT OF WAY
IRON ROD	S	PALM TREE	CONC	CONCRETE
HUB		PINE TREE	ASPH	ASPHALT
NAIL & DISK	*		DRWY	DRIVEWAY
ELEVATION			SWK	SIDEWALK
PARCEL ID NO.			EP	EDGE OF PAVEMENT
PARCEL ID NO.	$\sim\sim\sim\sim$	EDGE OF VEGETATION	BOC	BACK OF CURB
LOT NO.		- CHAIN LINK FENCE	~~~	FLOW ARROW
GUY WIRE		- WOOD FENCE		
POWER POLE		- BARBED WIRE FENCE		
LIGHT POLE	FM	- FORCE MAIN		
MAIL BOX	PW	- POTABLE WATER		
SIGN	RCW	- RECLAIMED WATER		
REFLECTOR	ss	- SANITARY SEWER		
SPRINKLER	s	- STORM DRAIN		
GAS MARKER	GAS	- GAS LINE		
BACKFLOW PREVENTER	OCHR	- OVERHEAD CHARTER		
BLOW OFF VALVE	CHR	- UNDERGROUND CHARTER		
FIRE HYDRANT	OE	- OVERHEAD ELECTRIC		
WATER VALVE	——— ВЕ ———	- UNDERGROUND ELECTRIC		
AIR RELEASE VALVE	OH FTR	- OVERHEAD FRONTIER		
WATER METER	FTR	- UNDERGROUND FRONTIER		
SANITARY SEWER MANHOLE	PCO	- UNDERGROUND PRECO		
SANITARY SEWER CLEAN OUT	FPL	- UNDERGROUND FPL		
SOIL BORING LOCATION	——— ОН ————	OVERHEAD UTILITY		
TELEPHONE SERVICE BOX	+++++++++++++++++++++++++++++++++++++++	RAIL ROAD TRACKS		
UTILITY BOX		- EDGE OF CONCRETE		
UTILITY RISER		EDGE OF ROAD		
FLOW DIRECTION		- TOE OF SLOPE		
GRATE INLET		TOP OF BANK		
MITERED END SECTION		- PROPERTY LINE		
STORM SEWER MANHOLE		RIGHT OF WAY		

WORKS DEPT 1022 26TH AVENUE EAST BRADENTON, FL. 34208 JIM RENNEBERG. P.E. (941) 708-7450 EXT. 7220 FAX: (941) 708-7415

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

2101 47TH TERRACE EAST BRADENTON, FL 34203 VISHAL KAKKAD, P.E

(941) 749-3500 EXT. 7812 FAX: (941) 749-3571 vishal.kakkad@mvmanatee.d

SARASOTA, FL. 34236 JOHN PLOTT (941) 906-6707 FAX: (941) 906-6706 John.Plott@ftr.com FLORIDA POWER & LIGHT 1253 12TH AVENUE EAST

PALMETTO, FL 34221 GREG COKER (941) 723-4430FAX: (941) 723-4444 EMERGENCY: 1-800-4-OUTAGE Greg_Coker@fpl.com

MANATEE COUNTY HEALTH DEPT. 410 6th AVENUE EAST BRADENTON, FL. 34208 (941) 748–0747 EXT. 1355 FAX: (941) 750-9364



PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 SERVICE OFFICE STEVE LOPES 6750 FRUITVILLE ROAD SARASOTA, FL. 34240 (941) 377-3722 FAX: (941) 373-7660

FLORIDA GAS TRANSMISSION 7804 ANDERSON RD. TAMPA FL 33634 CHAD HARRELL PHONE: (813) 466-3327 E-mail: chad.harrell@sug.com

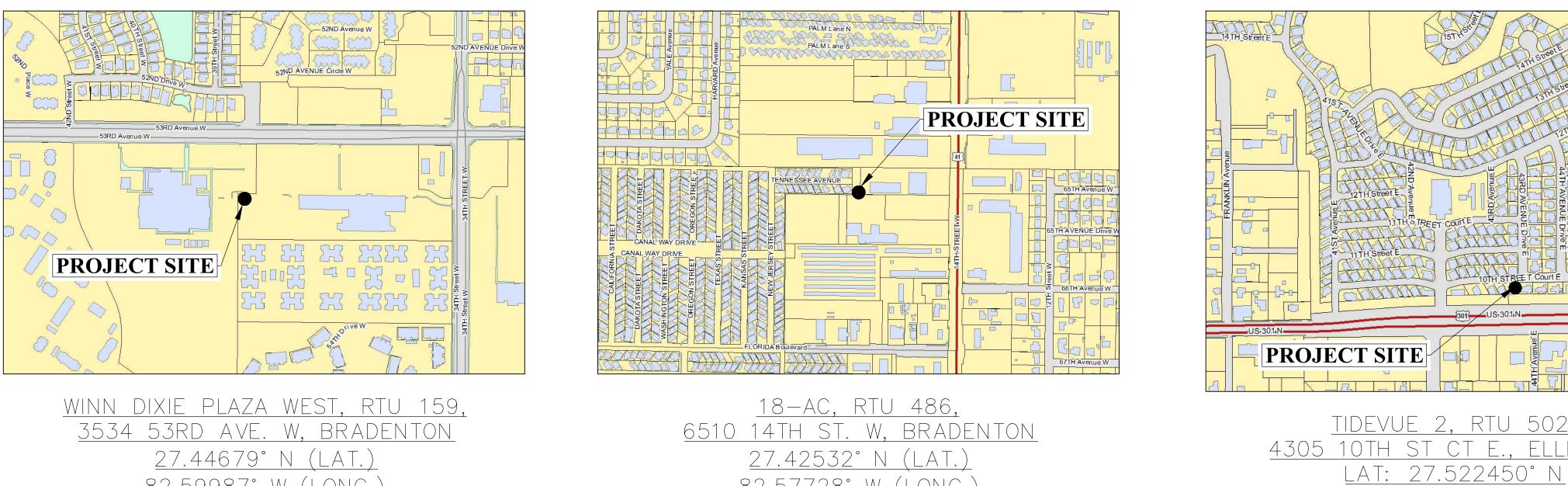
PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310 WACHULA, FL 33873 KENDELL COKER (863) 767-4660

13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 ED WATSON PHONE: (813) 470-5875 FAX: (813) 470-5993

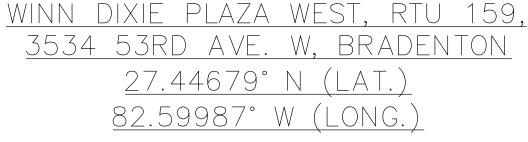
CHARTER COMMUNICATION

5413 E. STATE ROAD 64 BRADENTON, FL. 34208-5535 TOM WRIGHT (941) 748–3816 EXT. 21348 Tom.Wright@charter.com SUNSHINE STATE ONE CALL OF FLORIDA 1-(800) 432-4770

dell.coker@preco.c	соор			м С
PROJECT #		402-0 50	0019707 / 001301	J. SHEA SHOUN, P.E.
SURVEY #			NA	FLONGA 9.15 /# 190923
SEC./TWN./	RGE	N	/ARIES	FLON A 9.54 50923
SCALE			N.T.S.	
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DESIGNED	J	SS	1/2022	
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<u>82.57728° W (LONG.)</u>

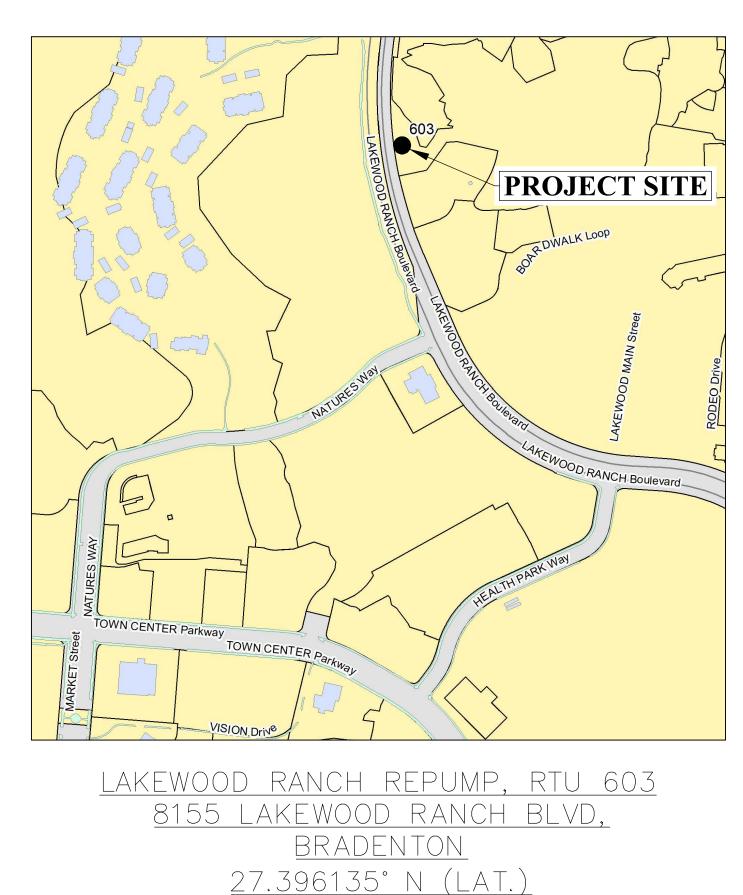






			1
NO.	REVISION DESCRIPTION	BY	DATE

<u>Port manatee stockade, rtu 556,</u> <u>14490 HARLEE RD., PALMETTO</u> LAT: 27.643709° N LONG: 82.539527° W



82.438138° W (LONG.)

SATELLITE LIFT STATION R&R 2023 GROUP 1 VICINITY MAPS

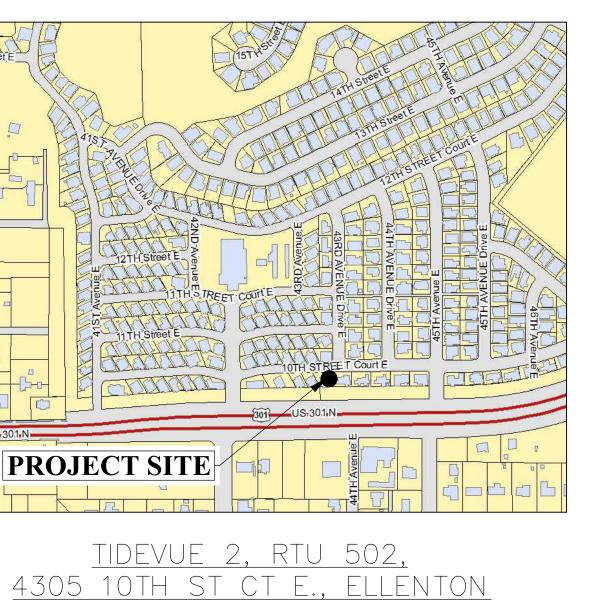
NOTE(S	5):

Long: 82.520001° W

- 1. LIFT STATION SITE VISITS MAY BE COORDINATED WITH ERIK GIBSON, 941–792–8811 x5377.
- 2. DATA ON THE COUNTY'S UTILITY INFRASTRUCTURE MAY BE RESEARCHED AND \square

VIEWED BY UTILIZING THE USE AN INTERNET BROWSE "https://www.mymanatee.o	R AND ENTER	THE FOLLOW	ING URL,
	PROJECT #	402-0019707 / 5001301	J. SHEA SHOUN, P.E.
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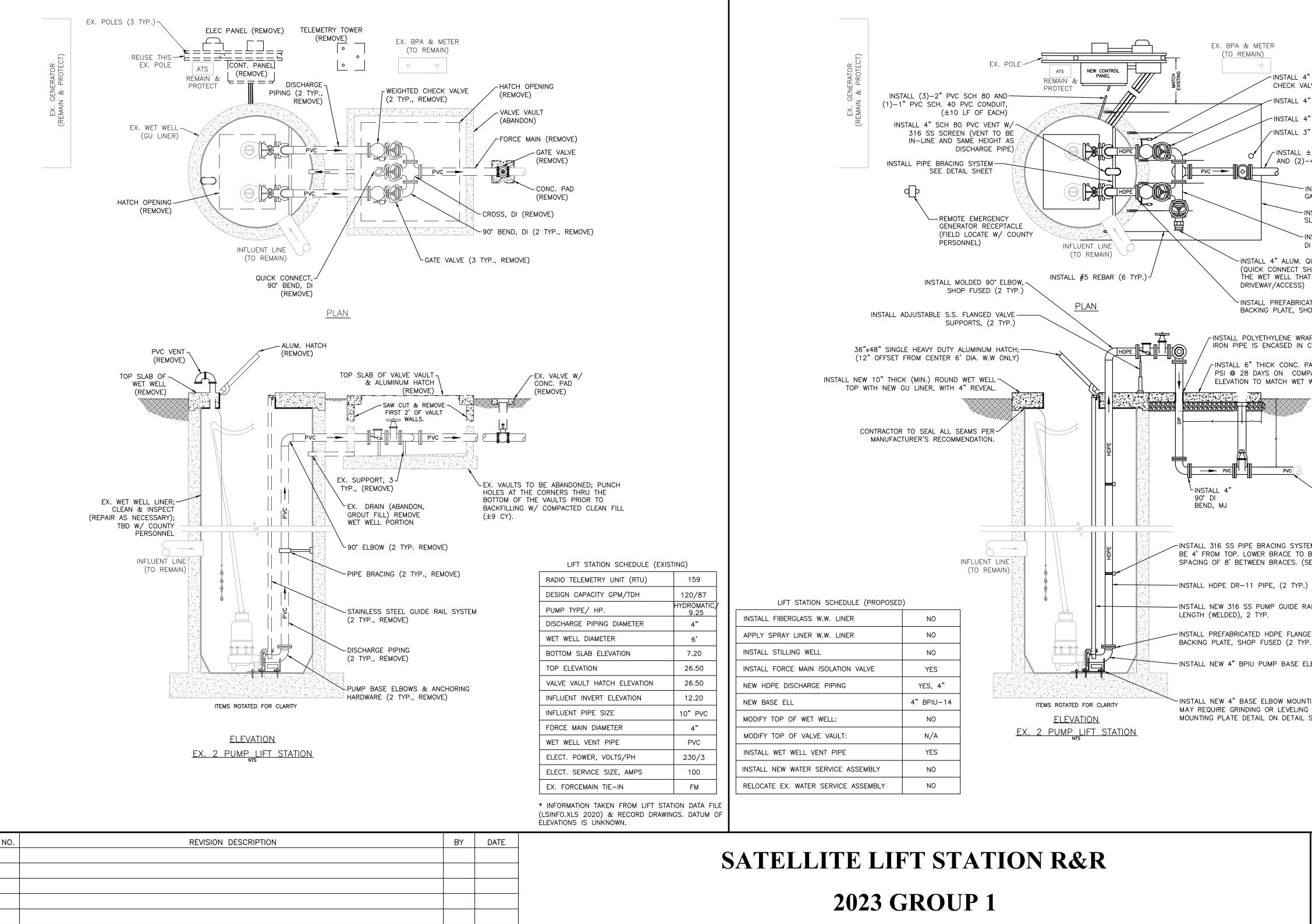
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County	SCALE			N.T.S.		. 60923		DS∼∕
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1022 26th Avenue East, Bradenton, FL 34208	DRAWN	J	ĸw	1/2022	Signa	tune v&	Date	en en
	CHECKED	J	SS	_	SHEET	03	OF	12



EXISTING

- 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.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
- THE CONTRACTOR SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS.
- REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR . BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 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.
- 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.



WINN DIXIE PLAZA, RTU 159

2)

	1. REMOVE AND INSTALL ALL NEW ELECTRICAL STRUCTURE (RACK), A CONTROL PAI
GENERAL NOTES:	TCU ENCLOSURE, JUNCTION BOX ENCLOSURE, A METER CAN, AND A SAFETY SWI (DISCONNECT). ALL EXISTING ELECTRICAL EQUIPMENT CONNECTED TO THE EXIST CONTROL PANEL SHALL BE RE-ESTABLISHED TO THE NEW PANEL. NEW ELECTRIC
1. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS. ALL HORIZONTAL AND VERTICAL DISTANCES AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE AWARDED CONTRACTOR.	STRUCTURE SHALL BE FIELD LOCATED WITH MANATEE COUNTY PERSONNEL. A TCU BUBBLER UNIT (RPT-001) SYSTEM PROVIDED AND INSTALLED BY DATA FI SYSTEMS (DFS) FOR WET WELL LEVEL CONTROL SHALL BE INCLUDED WITH
 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". 	CONTROL PANEL. THE EMERGENCY GENERATOR RECEPTACLE SHALL BE REMOTELY INSTALLED, (±20
3. 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.	 THE LIFT STATION SITE HAS AUXILIARY BACKUP EQUIPMENT. INSTALL TWO ADDITIO 20 AMP BREAKERS IN THE CONTROL PANEL TO POWER A BATTERY CHARGER WATER JACKET HEATER.
4. 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. THE ABOVE GROUND VALVE ASSEMBLY & PIPING SHALL BE PAINTED, RUSTOLEUM 7538 HUNTER GREEN. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT OVER-SPRAY OF PAINT ONTO THE CONCRETE SLAB.	3. AN ELECTRICAL SYSTEM STUDY, ELECTRICAL STUDY ANALYSIS, AND PROPER LABEL IN COMPLIANCE WITH NFPA 70E "STANDARD FOR ELECTRICAL SAFETY IN
5. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM TO BE PAINTED.	WORKPLACE" AND IEEE 1584 2018 "GUIDE FOR PERFORMING ARC FLASH HAZA CALCULATIONS" SHALL BE PROVIDED. 4. SEPARATE THE TELEMETRY TOWER FROM CONCRETE BASE AND SET TO SIDE OF
	STATION SITE. CONTRACTOR SHALL REMOVE AND DISPOSE OF CONCRETE BASE ALL GROUNDING RODS. COUNTY SHALL INSTALL NEW TELEMETRY ANTENNA.
	5. INSTALL #5 REBAR (6 TYP.) EPOXY EMBEDDED INTO THE WET WELL TOP 3 INCHES DEEP AND CAST 3-4 FEET INTO THE VALVE ASSEMBLY CONCRETE PAD ENSURE THE TOPS OF THE WET WELL AND VALVE ASSEMBLY PAD WILL REM
	 FLUSH. 6. REPAIR CONCRETE WALLS, AS NEEDED, IN WET WELL, 2-INCH MIN. THICK O EXISTING REBAR, (±211 SF). ALL REPAIRS TO BE VERIFIED W/ COUNTY PERSON
EX. BPA & METER (TO REMAIN)	PRIOR TO WORK. 7. DAMAGED EXISTING PROTECTIVE LINER(S) AND DETERIORATED WET WELL CONCR
EX. POLE	WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO REMOVAL INSTALLATION OF CONCRETE REPAIR AND/OR INSTALLATION OF NEW PROTECT LINER(S) AND/OR LINER REPAIR.
REMAIN & REM	8. REGRADE SITE TO ALLOW FOR A POSITIVE DRAINAGE SLOPE AWAY FROM THE STATION AREA TOWARDS THE SURROUNDING DITCHES. MAXIMUM OF 1% SLOPE.
(1)-1" PVC SCH. 40 PVC CONDUIT, (±10 LF OF EACH)	9. THE EXISTING ATS SHALL BE PROTECTED AND RE-ATTACHED TO THE I ELECTRICAL RACK EXTENSION.
INSTALL 4" SCH 80 PVC VENT W/ 316 SS SCREEN (VENT TO BE IN-LINE AND SAME HEIGHT AS	
DISCHARGE PIPE)	R-18
SEE DETAIL SHEET	
GATE VALVE, MJ	
GENERATOR RECEPTACLE	
(FIELD LOCATE W/ COUNTY PERSONNEL) INFLUENT LINE (TO REMAIN) INFLUENT LINE (TO REMAIN)	
INSTALL 4" ALUM. QUICK CONNECT W/ ALUM. C. (QUICK CONNECT SHALL BE PLACED ON THE SIL THE WET WELL THAT IS CLOSEST TO THE LIET S	DE OF
INSTALL MOLDED 90° ELBOW, SHOP FUSED (2 TYP.)	
INSTALL ADJUSTABLE S.S. FLANGED VALVE	w/ 3.3.
36"x48" SINGLE HEAVY DUTY ALUMINUM HATCH;	
36"x48" SINGLE HEAVY DUTY ALUMINUM HATCH; (12" OFFSET FROM CENTER 6' DIA. W.W ONLY) / INSTALL 6" THICK CONC. PAD, CLASS 1, 3,000 / PSI @ 28 DAYS ON COMPACTED SOIL (TOP	
INSTALL NEW 10" THICK (MIN.) ROUND WET WELL TOP WITH NEW GU LINER, WITH 4" REVEAL.	
CONTRACTOR TO SEAL ALL SEAMS PER-	
Image: Second	
INSTALL 316 SS PIPE BRACING SYSTEM, (2 MIN.). TOP BRACE TO BE 4' FROM TOP. LOWER BRACE TO BE 4' ABOVE BASE ELLS. MA	
INFLUENT LINE (TO REMAIN)	
LIFT STATION SCHEDULE (PROPOSED)	
INSTALL FIBERGLASS W.W. LINER NO	
APPLY SPRAY LINER W.W. LINER NO INSTALL STILLING WELL NO	
INSTALL STILLING WELL NO INSTALL STILLING WELL INSTALL NEW 4" BPIU PUMP BASE ELBOWS, (2 TYP.)	
NEW HDPE DISCHARGE PIPING YES, 4"	
NEW BASE ELL 4" BPIU-14 ITEMS ROTATED FOR CLARITY INSTALL NEW 4" BASE ELBOW MOUNTING PLATES AND ANCHOR B MODIFY TOP OF WET WELL: NO ELEVATION MAY REQUIRE GRINDING OR LEVELING OF BASE GROUT (SEE BASE	
MODIFY TOP OF VALVE VAULT: N/A EX. 2 PUMP LIFT STATION	
INSTALL WET WELL VENT PIPE YES	
INSTALL NEW WATER SERVICE ASSEMBLY NO RELOCATE EX. WATER SERVICE ASSEMBLY NO	
	PROJECT # 402-0019707 / J SHEA SHOUN P.E.
ATELLITE LIFT STATION R&R	PROJECT # $402-00197077$ J. SHEA SHOUN, P.E. SURVEY # NA FLOREDA SP.E.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.
	SEC./TWN./RGE 16/35/17



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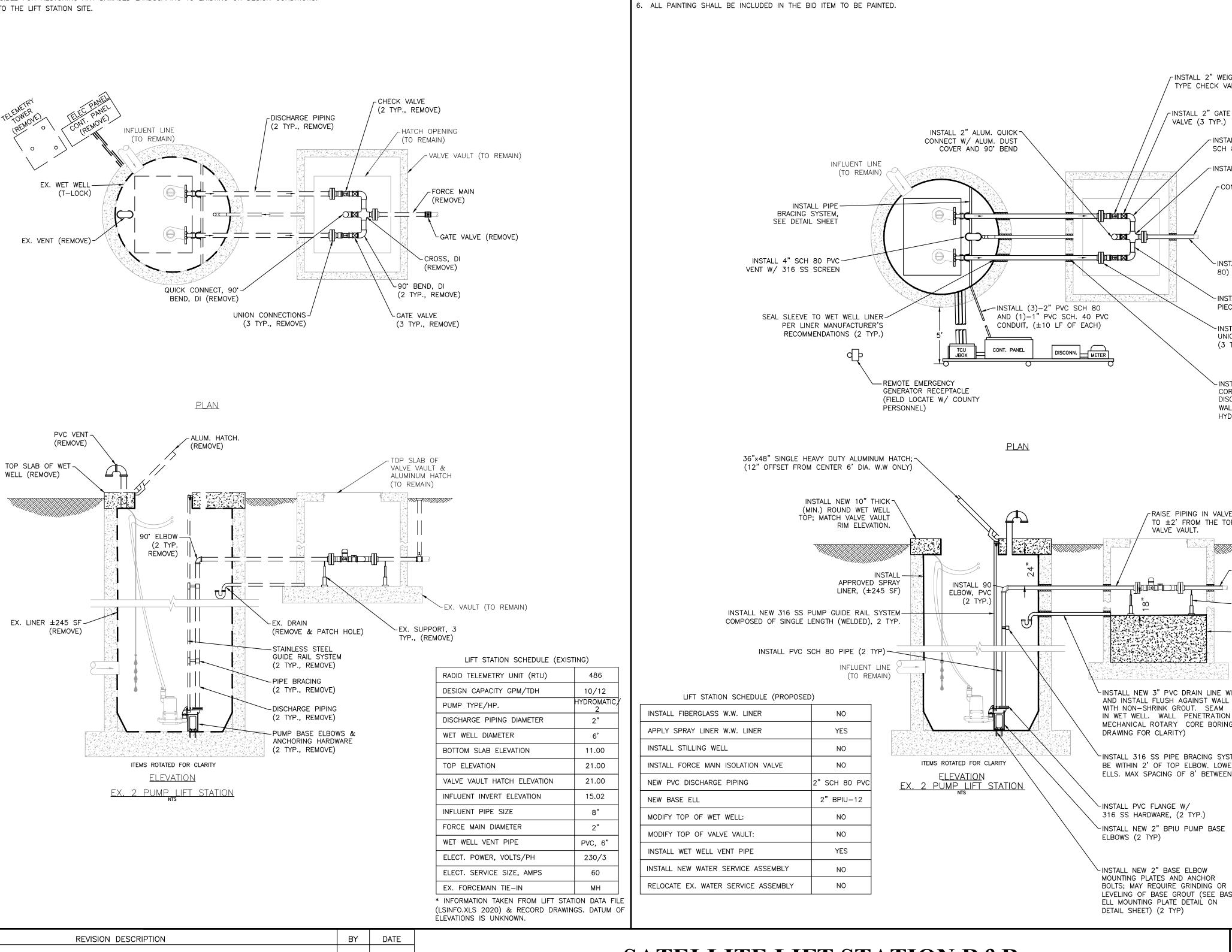
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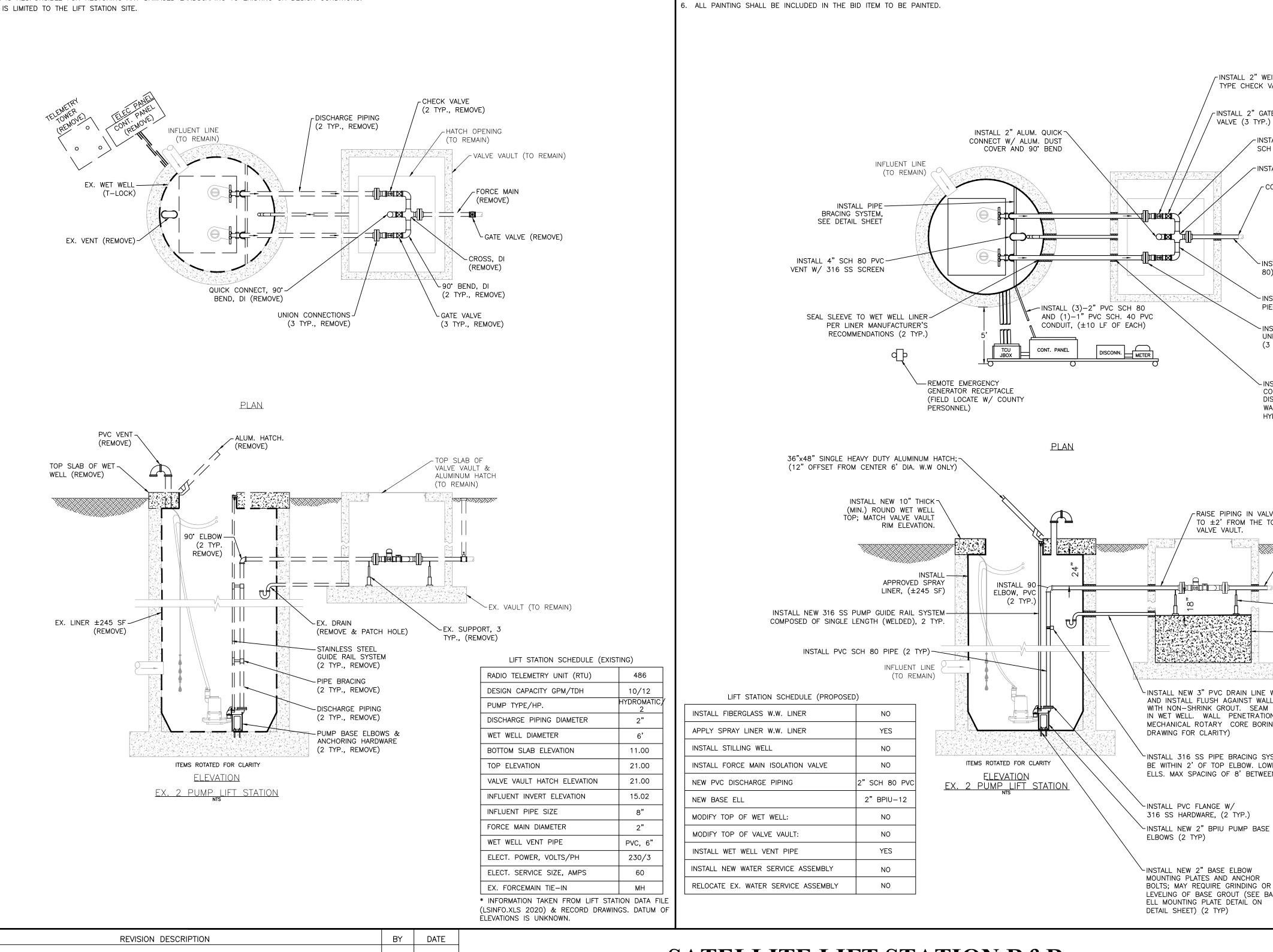
			J. SHEA SHOUN, P.E.
		NA	FLUR DASP. 54 # 160923
RGE	16	/35/17	FLUX DASP. 5.48 60923
		N.T.S.	No. 60923
	BY	DATE	D STATE OF
	NA	NA	То <u>12/12/2022</u>
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ļ	JSS	_	SHEET 04 OF 12
		RGE 16	RGE 16/35/17 N.T.S. BY DATE NA NA JSS 1/2022 JKW 1/2022

EXISTING

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8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE.





2)

NO.	REVISION DESCRIPTION	BY	DATE

SATELLITE LIFT STATION R&R 2023 GROUP 1 18-AC, RTU 486

PROPOSED

<u>GENERAL NOTES:</u> CONTRACTOR SHALL NOT BACKFILL OVER DISCHARGE PIPING UNTIL INSPECTOR HAS VISUALLY CHECKED IT FOR LEAKS DURING PUMP STARTUP OR PRESSURE TEST

DIRECTED BY THE COUNTY.

ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS. ALL HORIZONTAL AND VERTI DISTANCES AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHAL

THE RESPONSIBILITY OF THE AWARDED CONTRACTOR.

THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE VAULT EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILIC

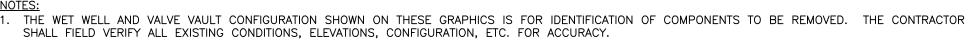
ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS, INC.

ALL EXISTING DUCTILE IRON PIPE AND/OR FITTINGS LABELED TO REMAIN IN THE VALVE VAULT SHALL BE COATED WITH A BITUMINOUS COATING.

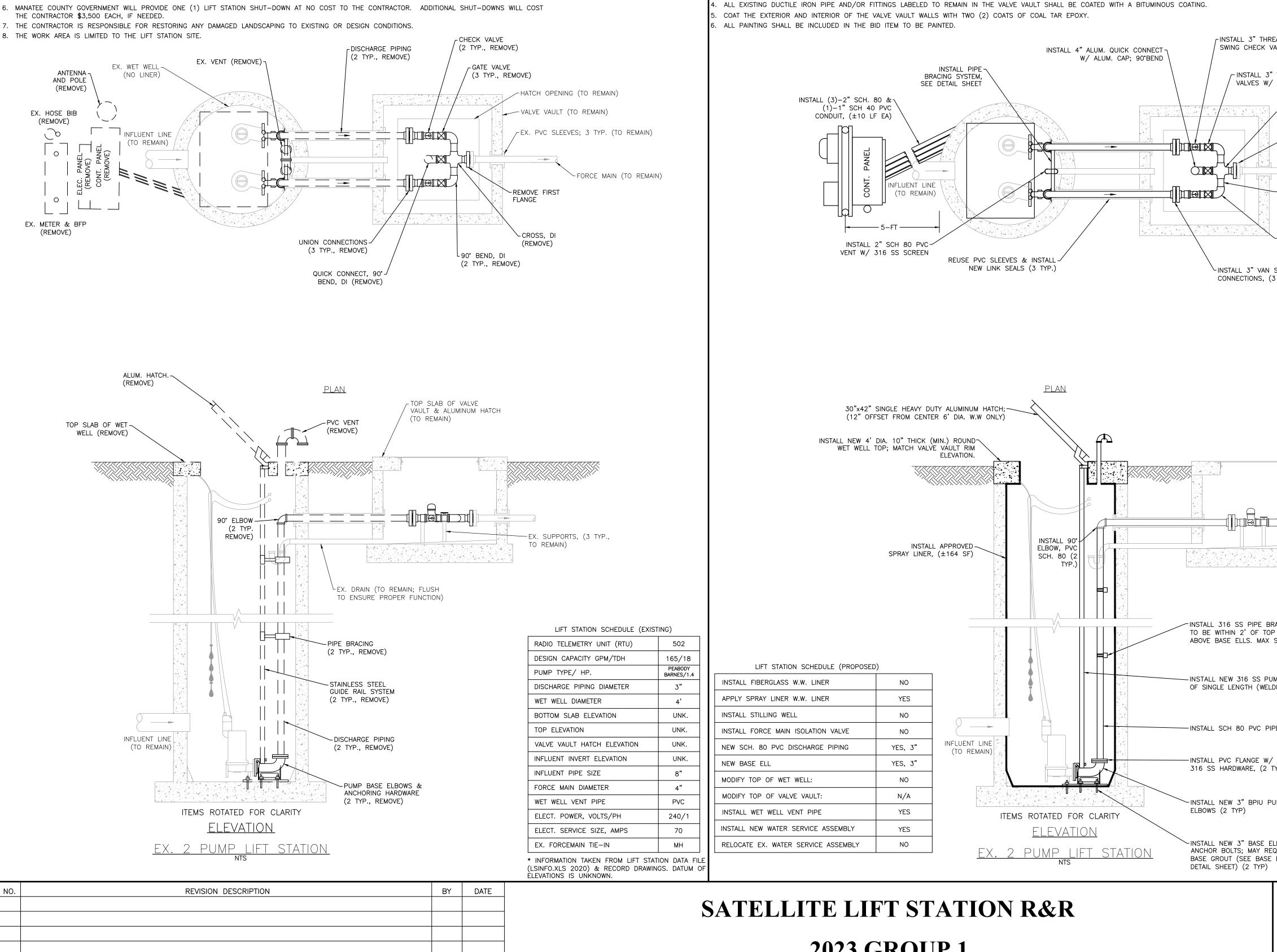
. COAT THE EXTERIOR AND INTERIOR OF THE VALVE VAULT WALLS WITH TWO (2) COATS OF COAL TAR EPOXY.

		CONCTOUR						
		1. INSTAL			_ SERVICE WI	TH CONDUIT. TH	IE COUNTY WI	LL SUPPLY
	Z	2. ANY		NG THAT IS		BETWEEN THE LI RIER PIPE THAT		
T AS		STRUC	TURE.					
RTICAL IALL BE	I	CONTR	ROL PANEL, TCU	I ENCLOSUR	E, JUNCTION) ELECTRICAL S BOX ENCLOSUR G ELECTRICAL E	E, A METER 🗋	CAN, AND
ICONE		HT OT 1 HT	IE EXISTING CÒI NEW ELECTRICAL	NTROL PANÉ	L SHALL BE	RE-ESTABLISHE	D TO THE NE	W PANEL.
		A TCU		· · ·		OVIDED AND INS		
		CONTR	ROL PANEL.			FROL SHALL BE		
		4. AN EL	ECTRICAL SYSTE	EM STUDY, E	LECTRICAL ST	LL BE REMOTEL [®] UDY ANALYSIS,	AND PROPER	LABELING
		WORK	PLACE" AND IEE	E 1584 20	18 "GUIDE FO	D FOR ELECTR OR PERFORMING		
		5. SEPAF		ETRY TOWER	FROM CONC	RETE BASE AND ND DISPOSE OF		
GHTED LEVER		ALL G	ROUNDING RODS	S. COUNTY S	SHALL INSTALL	NEW TELEMETR PVC "P" TRAP	Y ANTENNA.	
ALVE (2 TYP.)		FLUSH	AGAINST WILL	INSIDE WET	WELL. SEAL	WITH NON-SHR	NK GROUT. S	SEAM AND
Ξ					•	ROTATED IN DRA VET WELL, 2—IN		,
ALL 2" 90° BEND,		PERSO	ONNEL PRIOR TO	WORK.		S TO BE VE		
80 PVC (2 TYP.)		TO IN	STALLATION OF	NEW SPRAY	LINER AND/O	ECTED BY COUN R LINER REPAIR		
ALL 2" CROSS, SCH 80 I	PVC	PERSO	DNNEL, (±10 LF)		D LOCATE WI		
NNECT TO EX. FM		AROUI	ND WET WELL	TO ALLOW F	FOR POSITIVE	STATION SITE A	Y FROM LIFT	I STATION
		COOR	DINATE WITH MA	NATEE COUN	TY PERSONNE		•	
		TT. CONTE	AUTUR TU REM	UVE EXISTIN	∍ ruwek POL	E ADJACENT TO	VALVE VAULI	•
TALL 2" PVC (SCH FM (±11 LF)								
. ,								
TALL 2" SCH 80 PVC SP CES (AS NECESSARY)	POOL							
TALL 2" VAN STONE								
ON CONNECTIONS, TYP.)								
TALL: MECHANICALLY								
RE BORE HOLE FOR THE CHARGE PIPING; SEAL LLS W/ NON—SHRINK								
DRAULIC GROUT, (7 TYP.)	•							
E VAULT UP								
OP OF THE								
-CONNECT TO EX. FM								
-INSTALL ADJUSTABLE S.S VALVE SUPPORTS, (3 Th								
-FILL WITH CONCRETE TO	I							
RAISE BOTTOM, FLOOR SHALL BE SLOPED TO DRAIN (±3 CY)								
5.0 WIN (10 01)								
/ITH PVC "P" TRAP ROT	ATE							
INSIDE WET WELL. SEA AND SEAL TO MATCH LI	AL							
I TO BE MADE BY G. (P-TRAP ROTATED IN								
TEM, (2 MIN.). TOP BRAGER BRACE TO BE 4' ABO		QUE	ESTION	S:				
N BRACES.		1.	WATEF	R DIS	TRIBU	TION IS	S	
			PRIVA					
		2.	SEVVE	I UU	LLEUI	ION IS	LUR	
		3.	COUN	TY TC) HAV	E FPL	INST	ALL
			NEW [ELECT	RICAL	DROF	P AT	
SE			POWE	R PO	LE AN	ND TER	2 MINAT	E
			IN HA	NDHC)LE.			
			PROJECT #		0019707 / 001301		A SHOUN,	P.E.
sillet	2		SURVEY #		NA		SP.SHUILIN	0923
	Manate	e	SEC./TWN./		/34/18	No.	60923	
- ZAB	County	>	SCALE	BY	N.T.S. DATE		la de	
			SURVEYED	NA	NA	PRO 12/	ATE OF 2/2022	
	RKS DEPARTMENT		DESIGNED	JSS	1/2022	"1115SIO	VAL MIN	
	ERING SERVICES East, Bradenton, FL 342	208	DRAWN	JKW	1/2022	Signa		te –
			CHECKED	JSS	_]	SHFFL	U5 O	r 12

EXISTING



- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
- . THE CONTRACTOR SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS. REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR
- BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR \$3,500 EACH, IF NEEDED.



2023 GROUP 1 TIDE VUE 2, RTU 502

PROPOSED

CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE AWARDED CONTRACTOR.

SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS, INC.

GENERAL NOTES: CONTRACTOR SHALL NOT BACKFILL OVER DISCHARGE PIPING UNTIL INSPECTOR HAS VISUALLY CHECKED IT FOR LEAKS DURING PUMP STARTUP OR PRESSURE TEST AS DIRECTED BY THE COUNTY. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS. ALL HORIZONTAL AND

VERTICAL DISTANCES AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND

THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE VAULT EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C

		-		
ADED SEWAGE ALVES (2 TYP.) THREADED BRA HAND WHEELS CINSTALL 3" CL SCH 80 PVC CONNECT 3" UNION -INSTALL 3" PV PIECES (AS NU -INSTALL 3" 9C SCH 80 PVC STONE UNION 5 TYP.)	ASS GATE (3 TYP.) ROSS, TO EX. FITTING /C SPOOL ECESSARY)	1. 2. 3. 4. 5. 6. 7.	NSTRUCTION NOTES: INSTALL ±10 LF NEW ELECTRICAL SERVICE WITH CONDUIT. THE COUNTY WILL SUPPLY ANY REQUIRED HANDHOLES. ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WILL, VALVE VAULT, AND/OR METER VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE STRUCTURE. REMOVE AND INSTALL ALL NEW ELECTRICAL STRUCTURE (RACK), A CONTROL PANEL FOLLOWING THE 2015 CONTROL PANEL LAYOUT, A METER CAN, AND A SAFETY SWITCH (DISCONNECT). ALL INTERNAL ELECTRONICS AND EOUIPMENT SHALL BE PER THE CURRENT COUNTY REQUIREMENTS. ALL EXISTING ELECTRICAL EOUIPMENT CONNECTED TO THE EXISTING CONTROL PANEL SHALL BE REMOVE AND INSTALL ALL NEW ELECTRICAL STRUCTURE SHALL BE INCLUDED WITH THE CURRENT COUNTY PERSONNEL. A TOU BUBBLER UNIT (RPT-001) SYSTEM PROVIDED AND INSTALLED BY DATA PLOW SYSTEMS (DFS) FOR WET WELL LEVEL CONTROL PANEL ENCLOSURE. INSTALL (2)-14 TO 36 CONVERTER IN CONTROL PANEL. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL. AN ELECTRICAL SYSTEM STUDY, ELECTRICAL STUDY ANALYSIS, AND PROPER LABELING IN COMPLIANCE WITH NEPA 70E "STANDARD FOR ELECTRICAL SAFETY IN HE WORFLACE" AND IEEE 1584 2018 "CUIDE FOR PERFORMING ARC FLASH HAZARDS CALCULATIONS" SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO INSTALLATION OF NEW SPRAY LINER AND/OR LINER REPAR. INSTALL NEW METER, BPA, & HOSE BIBB ASSEMELY. THE METER AND BPA SHALL BE RELOCATED WAS. (LAS2 SF). ALL REPARS TO BE VERIFIED WITH COUNTY PERSONNEL PRIOR TO WORK. WET WELL CONCRETE WALLS. SANLE BE INSPECTED BY COUNTY PERSONNEL PRIOR TO INSTALLATION OF NEW SPRAY LINER AND/OR LINER REPAR. INSTALL NEW METER, BPA, & HOSE BIB ASSEMELY. THE METER AND BPA SHALL BE RELOCATED WAS FOR A SPOSSIBLE TO THE FREAM. BPA SHALL BE RELOCATE WALLS. SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO INSTALLATION OF NEW SPRAY LINER AND/OR LINER REPAR. INSTALL NEW METER, BPA, & HOSE BIBB ASSEMELY. THE METER AND BPA SHALL BE RELOCATE WAS MADE SOLONDING DITCHES. MAXIMUM OF 1% SLOPE.	(24 00 1 23 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	CONNECT 3" CROSS TO EXISTING UNION.	Z		1 COUDA 1.0E DW Chair Chaire 1.1 ANCL 5.11 Pland D
' ELBOW. LOWEI SPACING OF 8'	(2 MIN.). TOP BRACE R BRACE TO BE 4' BETWEEN BRACES. SYSTEM COMPOSED			
PE (2 TYP)				
YP.)				7 arona 7
IMP BASE				
	G PLATES AND G OR LEVELING OF PLATE DETAIL ON			
	Manate A County FLORIDA		PROJECT # 402-0019707 5001301 J. SHEA SHOUN, P.E. SURVEY # NA FLUE DA SP. 5.4# 60923 SEC./TWN./RGE 17/34/18 No. 60923 SCALE N.T.S. No. 60923 BY DATE STATE OF	

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PUBLIC WORKS DEPARTMENT

ENGINEERING SERVICES

1022 26th Avenue East, Bradenton, FL 34208

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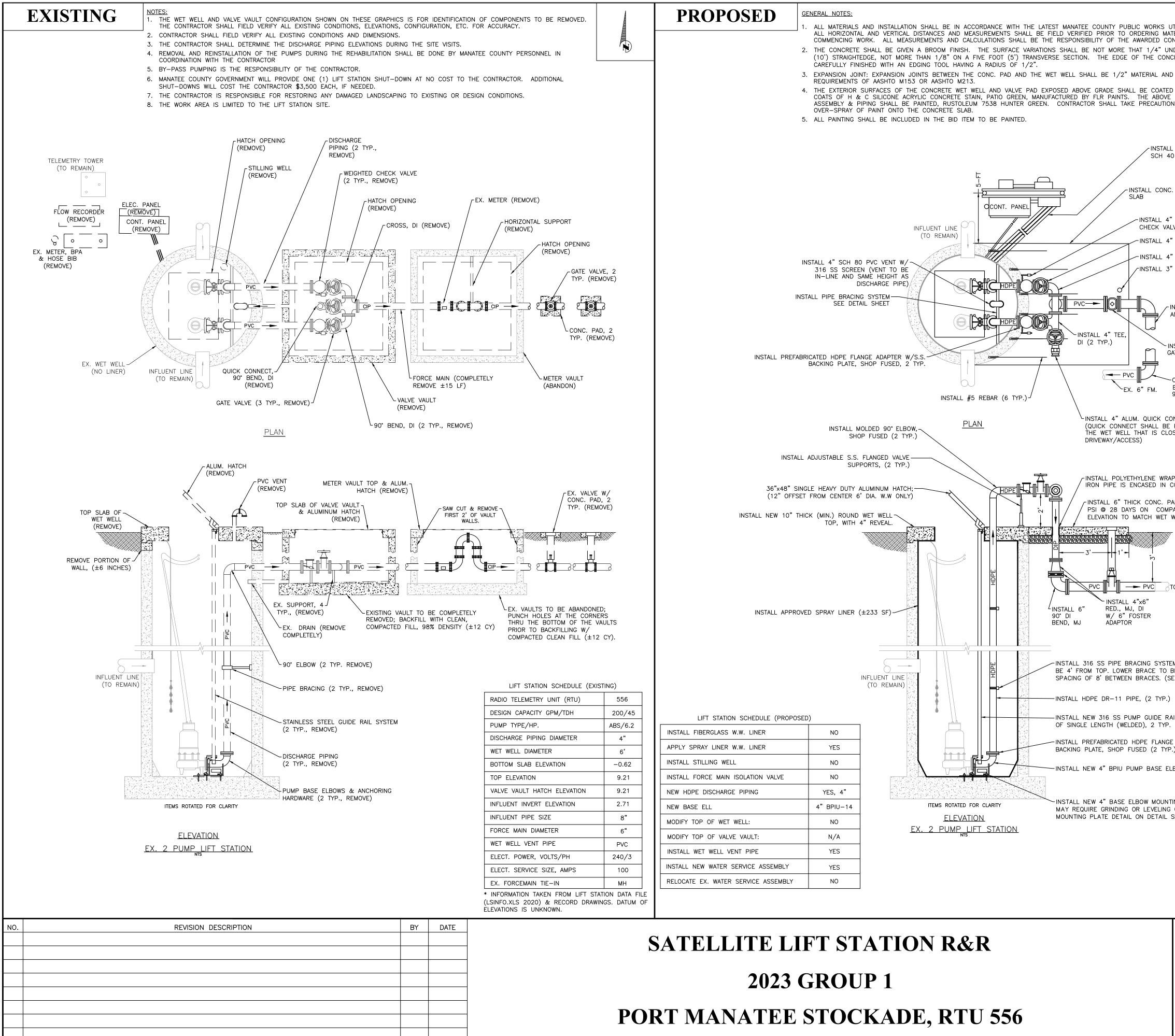
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Manate	SUF	RVEY #	NA 6/33/18	FLORING S. S. HOUL
•	PRO	DJECT #	02-0019707 / 5001301	J. SHEA SHOUN, P.E.
SHEET) (2 TYP)				
ING PLATES AND ANCHOR BOLTS; OF BASE GROUT (SEE BASE ELL				
BOWS, (2 TYP.)				
E ADAPTER W/S.S. .)				
AIL SYSTEM COMPOSED				
EE DETAIL SHEET)				
M, (2 MIN.). TOP BRACE TO BE 4' ABOVE BASE ELLS. MAX				
IO EX. FM				
-				
AD, CLASS 1, 3,000 PACTED SOIL (TOP WELL RIM ELEVATION)				
P WHERE DUCTILE CONCRETE.				
DNNECT W/ ALUM. CAP. PLACED ON THE SIDE OF DSEST TO THE LIFT STATION				
CONNECT TO EX. FM W/ 6" 90° MJ BEND				
ATE VALVE, MJ				
NSTALL 6"				
NSTALL ±15 LF TOTAL OF 6" PVC DR-18 AND (2)-90° BENDS (TOTAL)				
' DIA. BRONZE TAG	9. REGRADE SI THE LIFT S	TE (±12CY) TO	WARDS THE SURR	OSITIVE DRAINAGE SLOPE AWAY FROM OUNDING DITCHES. MAXIMUM OF 1% O NEW REGRADED AREAS.
'GATE VALVES, 3 TYP '90° BEND, FLG. DI	NEW SERVI SUPPLYING 8. ABANDON E	CE TO BE CON EXISTING 2" ABOV EXISTING WATER	NECTED TO THE E GROUND METER SERVICE SADDLE	UPSTREAM SIDE OF THE 2" LINE ASSEMBLY NEAR LIFT STATION SITE. AND CORPORATION AT THE MAIN;
'WEIGHTED LEVER TYPE SWING .VE, (2 TYP.)	HOSE BIBB CLOSE AS WATER DIST	PER COUNTY ST POSSIBLE TO THE	ANDARDS. THE RIGHT–OF–WAY ALL ITEMS SHALL	METER/BPA SHALL BE LOCATED AS LINE IN CLOSEST PROXIMITY TO THE BE FIELD LOCATE WITH MANATEE
	TO INSTALLA 7. INSTALL A	TION OF NEW SP NEW 2-INCH	RAY LINER AND/OF WATER SERVICE	CTED BY COUNTY PERSONNEL PRIOR R LINER REPAIR. AND 2" CUT-IN TEE; A 2-INCH CONNECT ALONG WITH A 3/4-INCH
D PVC CONDUIT, (±10 LF EA)	EXISTING RE PRIOR TO W	BAR, (±117 SF). ORK.	ALL REPAIRS TO	ET WELL, 2-INCH MIN. THICK OVER BE VERIFIED W/ COUNTY PERSONNEL
_ (3)-2" SCH. 80 & (1)-1"	INCHES DEE	P AND CAST 3-4	4 FEET INTO THE	DED INTO THE WET WELL TOP 3-4 VALVE ASSEMBLY CONCRETE PAD TO VALVE ASSEMBLY PAD WILL REMAIN
GROUND VALVE NS TO PREVENT	IN COMPLIA WORKPLACE	NCE WITH NFPA	70E "STANDARD 2018 "GUIDE FO	JDY ANALYSIS, AND PROPER LABELING FOR ELECTRICAL SAFETY IN THE R PERFORMING ARC FLASH HAZARDS
O SHALL MEET THE	SYSTEMS (I CONTROL P/	DFS) FOR ŴET W ANEL.	VELL LEVEL CONTI	VIDED AND INSTALLED BY DATA FLOW ROL SHALL BE INCLUDED WITH THE
IDER A TEN FOOT	(DISCONNEC CONTROL P	T). ALL EXISTING ANEL SHALL BE I	ELECTRICAL EQUI RE-ESTABLISHED T	A METER CAN, AND A SAFETY SWITCH PMENT CONNECTED TO THE EXISTING TO THE NEW PANEL. NEW ELECTRICAL NATEE COUNTY PERSONNEL.
ITILITY STANDARDS. TERIALS AND NTRACTOR.	REQUIRED H 2. REMOVE AN	IAND HOLES. D INSTALL ALL NE	EW ELECTRICAL ST	TH CONDUIT. COUNTY TO SUPPLY ALL RUCTURE (RACK), A CONTROL PANEL,
	CONSTRUCTION	NOTES:		

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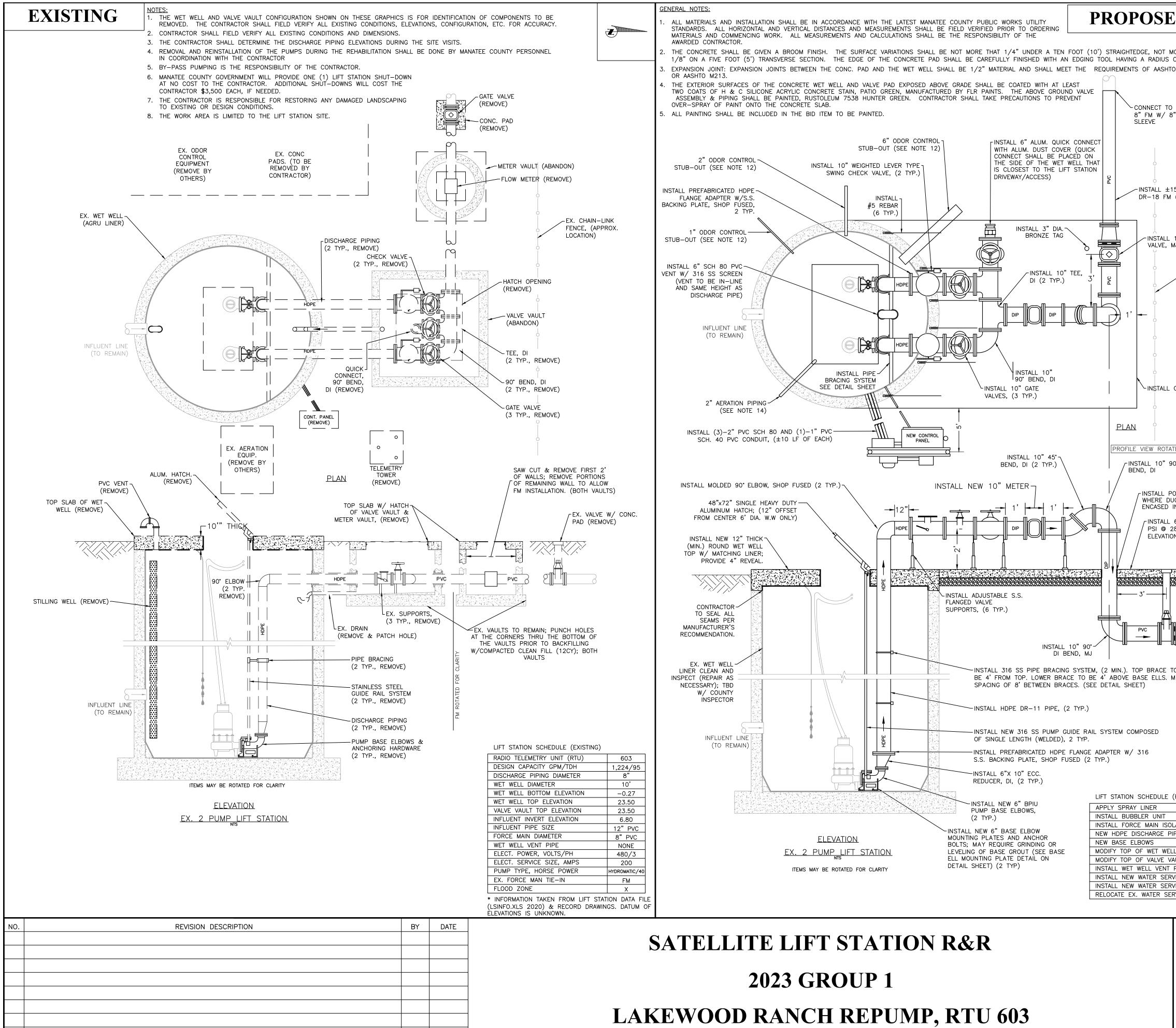
OF

SHEET

FLORIDA

PUBLIC WORKS DEPARTMENT

ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

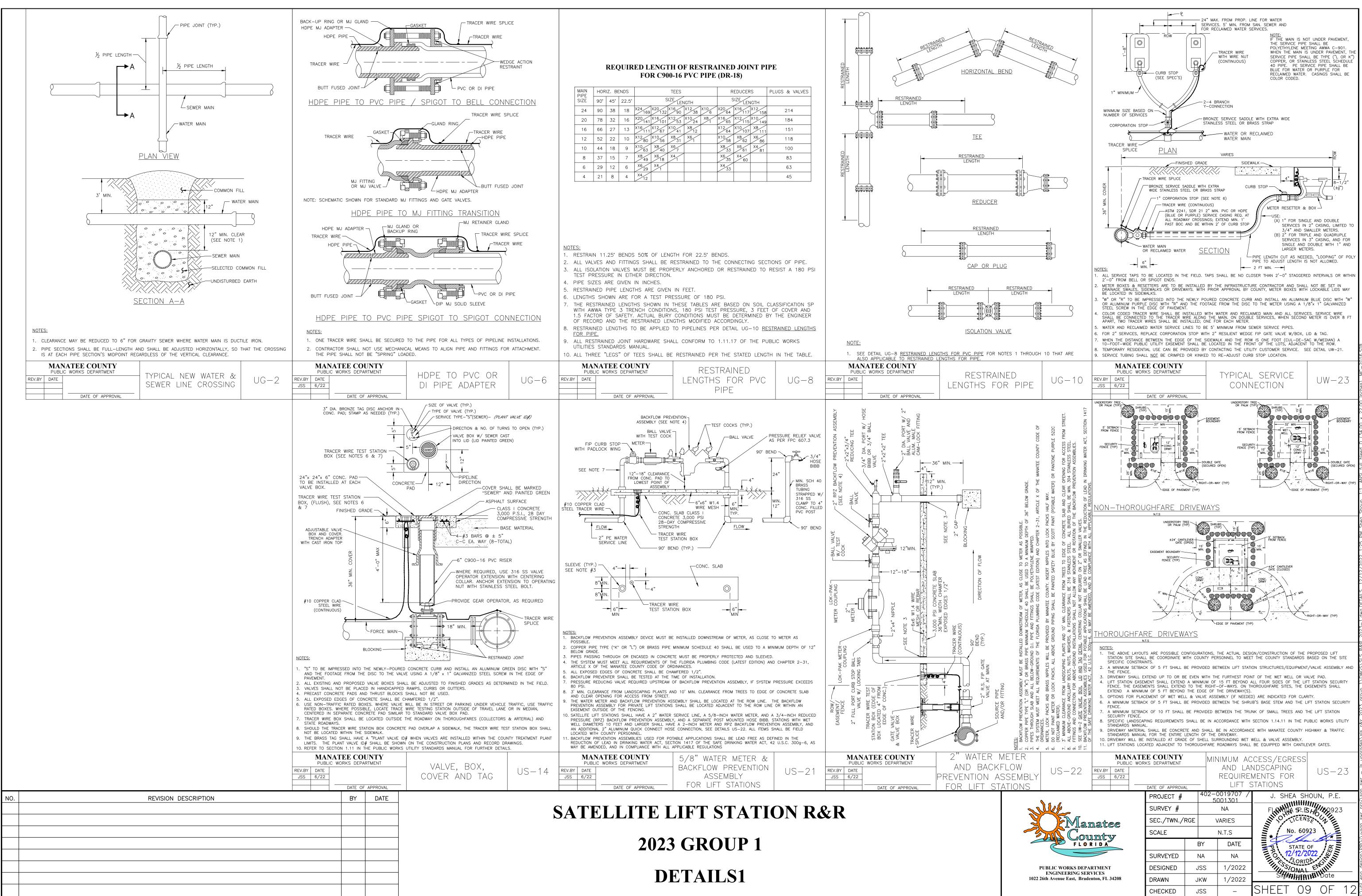


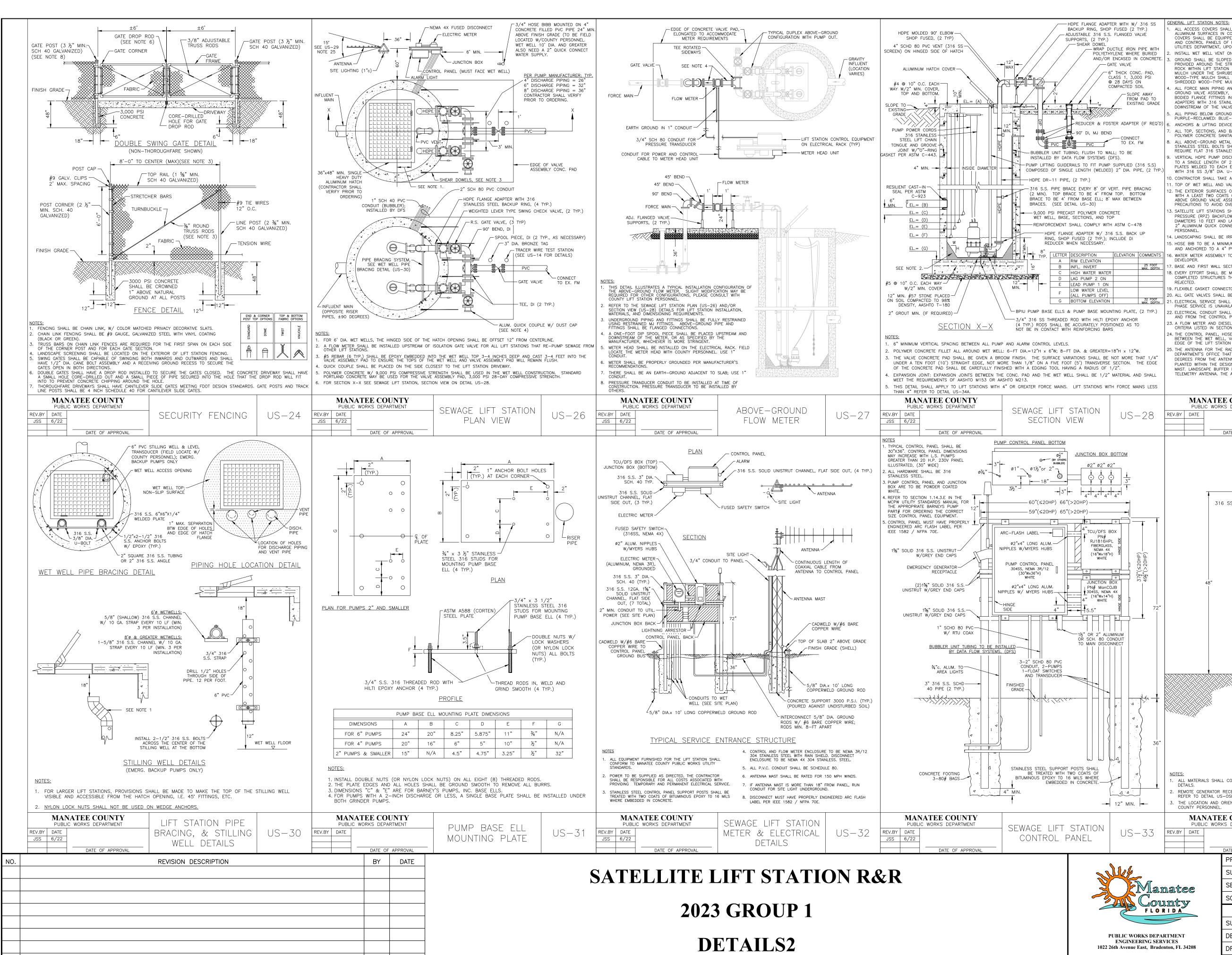
CD	CONSTRUCTION NOTES: 1. REMOVE AND INSTALL ALL NEW ELECTRICAL STRUCTURE (RACK), A CONTROL PANEL, TCU ENCLOSURE, JUNCTION BOX ENCLOSURE, A METER CAN, AND A SAFETY SWITCH (DISCONNECT). ALL EXISTING ELECTRICAL EQUIPMENT CONNECTED TO THE EXISTING CONTROL PANEL SHALL BE RE-ESTABLISHED. THE NEW ELECTRICAL STRUCTURE SHALL BE FIELD LOCATED WITH MANATEE COUNTY PERSONNEL.
OF 1/2".	A TCU BUBBLER UNIT (RPT-001) SYSTEM PROVIDED AND INSTALLED BY DATA FLOW SYSTEMS (DFS) FOR WET WELL LEVEL CONTROL SHALL BE INCLUDED WITH THE CONTROL PANEL. THE LIFT STATION SITE HAS AUXILIARY BACKUP EQUIPMENT. INSTALL TWO ADDITIONAL 20 AMP BREAKERS IN THE CONTROL PANEL TO POWER A BATTERY
EX. "MJ	 CHARGER AND WATER JACKET HEATER. 2. AN ELECTRICAL SYSTEM STUDY, ELECTRICAL STUDY ANALYSIS, AND PROPER LABELING IN COMPLIANCE WITH NFPA 70E "STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE" AND IEEE 1584 2018 "GUIDE FOR PERFORMING ARC FLASH HAZARDS CALCULATIONS" SHALL BE PROVIDED. 3. SEPARATE THE TELEMETRY TOWER FROM CONCRETE BASE AND SET TO SIDE OF
	 LIFT STATION SITE. CONTRACTOR SHALL REMOVE AND DISPOSE OF CONCRETE BASE AND ALL GROUNDING ROD. COUNTY SHALL INSTALL NEW TELEMETRY ANTENNA. 4. INSTALL #5 REBAR (6 TYP.) EPOXY EMBEDDED INTO THE WET WELL TOP 3-4 INCHES DEEP AND CAST 3-4 FEET INTO THE VALVE ASSEMBLY CONCRETE PAD
5 LF 8" PVC (TOTAL)	 TO ENSURE THE TOPS OF THE WET WELL AND VALVE ASSEMBLY PAD WILL REMAIN FLUSH. 5. REPAIR CONCRETE WALLS, AS NEEDED, IN WET WELL, 2-INCH MIN. THICK OVER EXISTING REBAR, (±452 SF). ALL REPAIRS TO BE VERIFIED WITH COUNTY PERSONNEL PRIOR TO WORK.
10"GATE ⁄IJ	 DAMAGED EXISTING PROTECTIVE LINER(S) AND DETERIORATED WET WELL CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO REMOVAL AND INSTALLATION OF CONCRETE REPAIR AND/OR INSTALLATION OF NEW PROTECTIVE LINER(S) AND/OR LINER REPAIR. INSTALL A NEW 2-INCH WATER SERVICE AND 36"x2" TAPPING SADDLE; A 2-INCH
EX. CHAIN-LINK FENCE, (APPROX. LOCATION)	 INSTALL A New 2-INCH WATER SERVICE AND 36 X2 TAPPING SADDLE; A 2-INCH METER/BPA ASSEMBLY, A 3/4-INCH HOSE BIBB ASSEMBLY, AND A 2-INCH QUICK CONNECT PER COUNTY STANDARDS VIA DIRECT BURY. THE EXISTING WATER MAIN IS LOCATED IN THE ROW ON THE SAME SIDE AS THE LIFT STATION SITE. THE METER/BPA SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE FENCE / EASEMENT / RIGHT-OF-WAY LINE IN CLOSEST PROXIMITY TO THE WATER DISTRIBUTION MAIN. ALL ITEMS SHALL BE FIELD LOCATE WITH MANATEE COUNTY PERSONNEL (±30 LF). ABANDON EXISTING WATER SERVICE SADDLE AND CORPORATION AT MAIN. INSTALL A BRASS PLUG IN CORPORATION STOP.
	 9. INSTALL 57 ROCK & WEED BARRIER (±57 SY); GRADE THE AREA AROUND WET WELL TO ALLOW FOR POSITIVE DRAINAGE AWAY FROM LIFT STATION AND TO HAVE A 4" REVEAL ON THE WET WELL/VALVE ASSEMBLY PAD. COORDINATE WITH MANATEE COUNTY PERSONNEL. 10. INSTALL A 12-FT WIDE 6-INCH THICK REINFORCE STANDARD CONCRETE
CONC. SLAB	 DRIVEWAY. EXACT LOCATION AND LAYOUT SHALL BE DETERMINED IN THE FIELD WITH COUNTY PERSONNEL, (±28 SY). REMOVE AND REPLACE EXISTING REINFORCED CONCRETE DRIVEWAY BETWEEN LIFT STATION FENCING AND SIDEWALK 11. ALL ODOR CONTROL EQUIPMENT SHALL BE REMOVED AND REINSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH OTHERS. 12. INSTALL THREE CAPPED STUB-OUTS; 3 LF EACH OF 6 INCH PVC, 2 INCH PVC,
TED FOR CLARITY	 AND 1 INCH PVC DIAMETER PIPES BY CORE BORING THROUGH THE WET WELL WALL, USE HYDRAULIC NON-SHRINK GROUT TO REPAIR THE HOLES FOR THE ODOR CONTROL EQUIPMENT CONNECTIONS. FIELD VERIFY LOCATE WITH COUNTY PERSONNEL. 13. INSTALL A NEW ABOVE-GROUND FLOW METER PER DETAIL US-27. SITE SPECIFIC CONFIGURATION MAY VARY FROM DETAIL. COORDINATE WITH COUNTY PERSONNEL. 14. INSTALL 2-INCH AERATION PIPING (ALL 316 STAINLESS STEEL) FOR THIS STATION ONLY. THE AERATION PIPING SHALL RUN FROM THE AERATION UNIT TO THE
OLYETHYLENE WRAP JCTILE IRON PIPE IS IN CONCRETE.	 INSIDE OF THE WET WELL. SEE SHEET 11 FOR A CONCEPTUAL LAYOUT AND DESIGN. ALL SHALL BE FIELD LOCATED AND COORDINATED WITH COUNTY PERSONNEL. 15. CONTRACTOR SHALL REMOVE TWO CONCRETE PADS (TOTAL ±20 SY) 16. INSTALL 6" THICK REINFORCED CONCRETE PAD (60"X90"), ±4.2 SY. TO BE LOCATED WITH COUNTY PERSONNEL.
6" THICK CONC. PAD, CLASS 1, 3,000 8 DAYS ON COMPACTED SOIL (TOP N TO MATCH WET WELL RIM ELEVATION)	17. COUNTY TO RETAIN OWNERSHIP OF VALVE ASSEMBLY, ALL VALVES AND FITTINGS.
3'	
INSTALL 8"X10" RED. DI W/ 10" FOSTER ADAPTOR, MJ	
O MAX	
(PROPOSED) NO YES ATION VALVE YES PING YES, 10"	
YES, 10 YES L NO AULT NO PIPE YES VICE LINE, 1" OR 2" YES, 2" VICE ASSEMBLY, STD OR 2" YES, 2"	
RVICE ASSEMBLY NO	



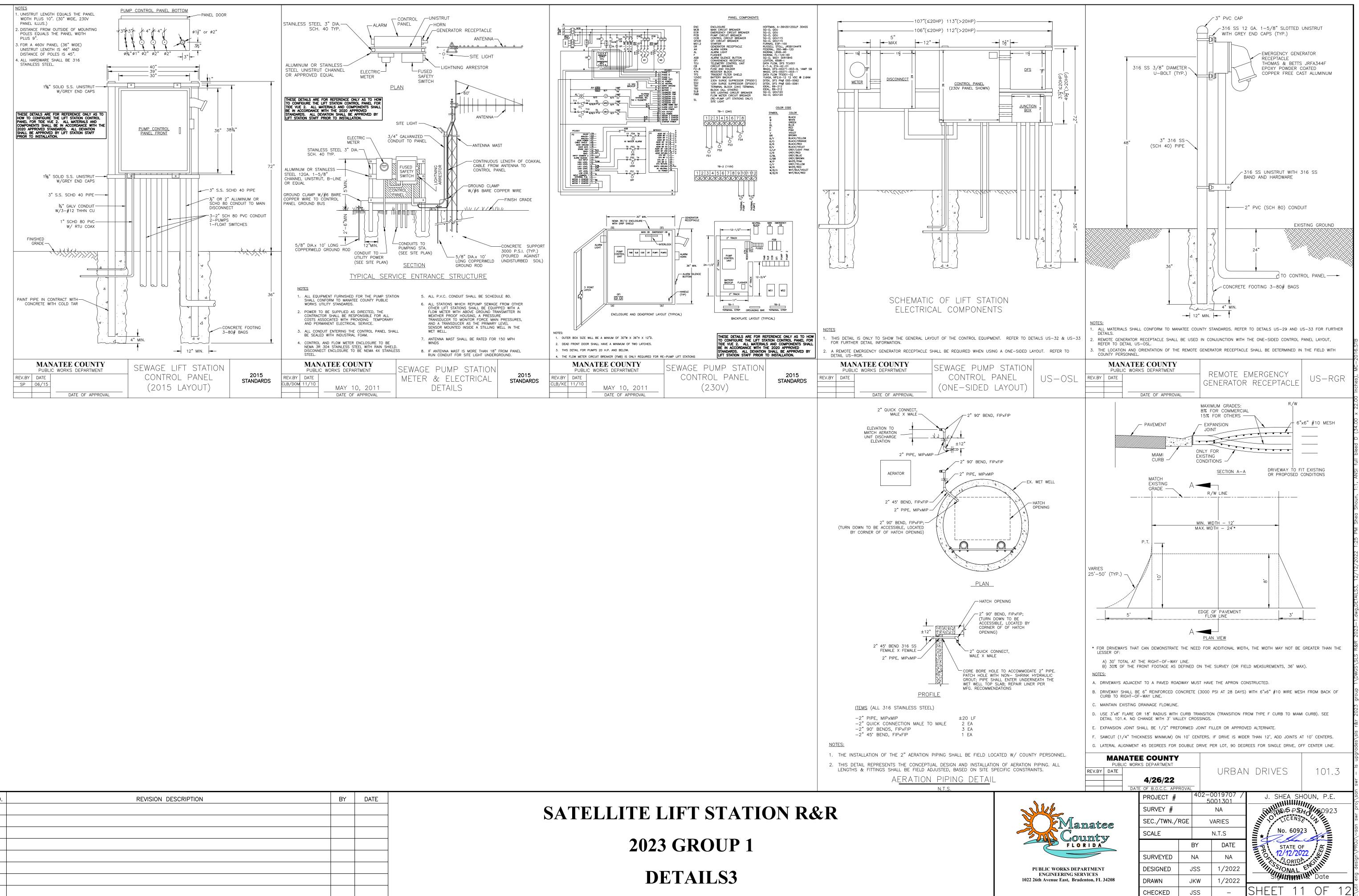
PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

	PROJECT #			TBD	J. SHEA SHOUN, P.E.
	SURVEY #			NA	FNUR DAS PSH #160923
	SEC./TWN./	RGE	31	/35/19	IN OF LICENSE
	SCALE			N.T.S.	FNUR DAS PSH # 60923
			BY	DATE	D STATE OF
	SURVEYED		NA	NA	BO STATE OF 12/12/2022
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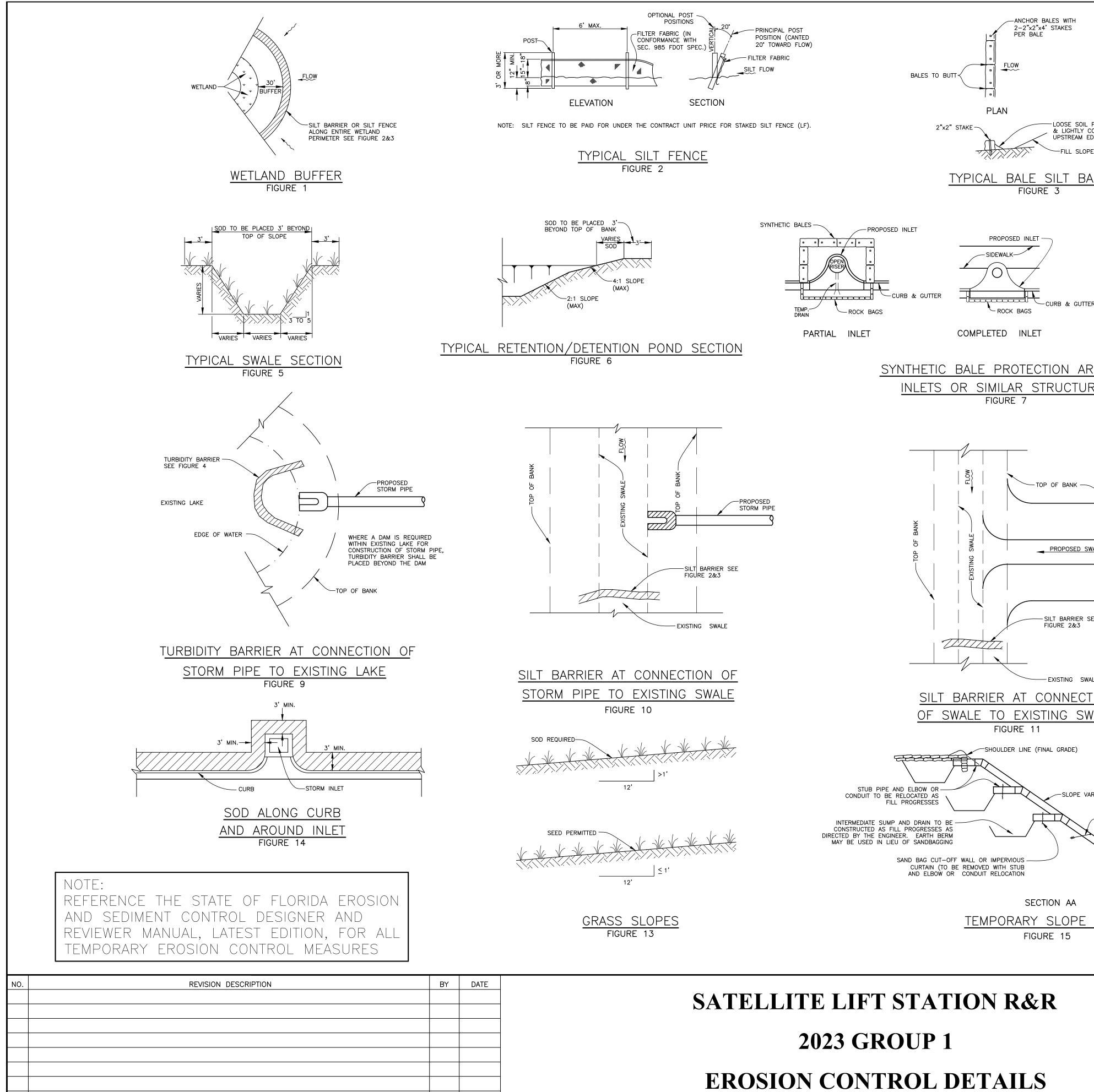




HDPE FLANGE ADAPTER WITH W/ 316 SS BACKUP RING, SHOP FUSED (2 TYP.) ADJUSTABLE 316 S.S. FLANGED VALVE SUPPORTS, (2 TYP.) SHEAR DOWEL WRAP DUCTILE IRON PIPE WITH POLYETHYLENE WHERE BURIED AND/OR ENCASED IN CONCRETE. GATE VALVE 6" THICK CONC. PAD, CLASS 1, 3,000 PSI © 28 DAYS ON COMPACTED SOIL SLOPE AWAY FROM PAD TO EXISTING GRADE SLOPE AWAY FROM PAD TO EXISTING GRADE CONNECT TO EX. FM TUBING; FLUSH TO WALL; TO BE DATA FLOW SYSTEMS (DFS). UIDERAILS TO FIT PUMP SUPPLIED (316 S.S) SINGLE LENGTH (WELDED) 2" DIA. PIPE, (2 TYP.) PIPE, (2 TYP.) BRACE EVERY 8' OF VERT. PIPE BRACING BRACE TO BE 4' FROM TOP. BOTTOM 4' FROM BASE ELL; 8' MAX BETWEEN E DETAIL US-30) RECAST POLYMER CONCRETE BASE, SECTIONS, AND TOP ENT SHALL COMPLY WITH ASTM C-478 CLARSE ADAPTER W/ 316 S.S. BACK UP SHOP FUSED (2 TYP.); INCLUDE DI RE DESCRIPTION ELEVATION A RIM ELEVATION A RIM A RIM A RIM A	 GENERAL LIFT. STATION. NOTES: 1. ALL ACCESS COVERS SHALL BE ALUMINUM, WITH 316 STAINLESS STEEL HARDWARE AND RATED FOR 300 P.S.F. LOADING. ALL ALCESS COVERS SHALL BE COURTACT WITH CONCRETE SHALL HAVE 2 COLTS BITUMASTIC EPOXY, TOTAL 16 MILS DIT, ALL ACCESS COVERS SHALL BE COURTACT WITH CONCRETE SHALL HAVE 2 COLTS BITUMASTIC EPOXY, TOTAL 16 MILS DIT, ALL ACCESS COVERS SHALL BE COURTED WITH A LOCKING STAPE OR TOW SEE WITH A PADLOCK. PADLOCK. PADLOCKS FOR WEWELL, FENCE GATE UTILITIES DEPARTMENT, LOPA ACCEPTANCE. MANTANOLE UTILITISTIS DEPARTMENT, LOPA ACCEPTANCE. 2. INSTAL WET WELL VENT ON THE HINGED SIDE OF THE WET WELL HATCH COVER, BETWEEN DISCHAROE PIPING AND MACH HEICH. 2. INSTALL WET WELL VENT ON THE HINGED SIDE OF THE WET WELL HATCH COVER, BETWEEN DISCHAROE PIPING AND MACH HEICH. 2. OROND SHALL BE SLOCATED UNDER THE TREES FOR A MINUMU INSTANCE OF 3 FEET FROM THE REPAIL SHALL BE LOCATED UNDER THE SHALE MILDUPE A WEED BARRIER FABRIC THAT IS COVERED WITH SHREDED WOOD TYPE MULCH SHALL BE LOCATED UNDER THE FENSE. WEED BARRIER FABRIC THAT IS COVERED WITH SHREDED WOOD TYPE MULCH SHALL BE LOCATED UNDER THE FENSE. WEED BARRIER FABRIC THAT IS COVERED WITH SHREDED WITH SHREDED WOOD TYPE MULCH SHALL BE LOCATED UNDER THE FENSE. FOR A MINUM INSTANCE OF 3 FEET FROM THE THERE. SODIONO OR SHREDED WOOD TYPE MULCH SHALL BE INSTALLED ON THE REMAINDER OF THE WETTELL DO THE CHECK VALVE NITH SHREDED WITH SHREDED WITH SHREDED WOOD TYPE MULCH SHALL BE UNTIT IS IN THE WETTELL DO THE CHECK VALVE SHALL BE ALL PRIVES STELL BACKARP RINGS. ALL HOPE CONVERTINGS IN THE SHRED BETTINGS IN THE WETTEL LIPPING WITH SHREDED THE SHREDED WITH SHREDED THE SALE BARRIER FABRIC THAT IS COVERED WITH SHREDED THE ARE THERE. SODIOND OR SHREDEN WITH SHREDED THE WEILL HARDWARE AND THE SHALL BE CLANARY ON THE WETHEL LIPPING WITH SHREDED THE SHALL BE CLANARY ON THE WEILL SHALL BE THE WEILL SHALL BE ALL PRIVES AND UNDE THE SHREDE STAIL BE AND HENDES STEEL DAGE SHALL BE CLANARY PRIVES ALL HOPE CONTROL THE WEILL SHALL BE
DED ROD WITH HILTI EPOXY ANCHOR L BE ACCURATELY POSITIONED AS TO WITH REINFORCING BARS YELS. 8-FT DIA. & GREATER=18"H x 12"W. C VARIATIONS SHALL BE NOT MORE THAT 1/4" FOOT (5') TRANSVERSE SECTION. THE EDGE HAVING A RADIUS OF 1/2". T WELL SHALL BE 1/2" MATERIAL AND SHALL INS. LIFT STATIONS WITH FORCE MAINS LESS T STATION VIEW US-28 DM $\phi 2" \phi 2" \phi 2"$ $\phi 1 \phi 1$	AND FROM THE CONTROL PANEL TO THE LIFT STATION WET WELL. 23. A FLOW WETER AND DESEL EMERGENCY BACKUP GENERATOR SHALL BE REQUIRED FOR ALL LIFT STATIONS THAT MEET THE C3. A FLOW WETER AND DESEL EMERGENCY BACKUP GENERATOR SHALL BE REQUIRED FOR ALL LIFT STATIONS THAT MEET THE C3. THE ANTENDA PAREL IN SECTION 1.14.14 OF THE PUBLIC WORKS UTILITY STANDARDS MANUAL. 24. THE CONTROL PANEL, MOSC REGENCY BACKUP GENERATOR, FUEL STORAGE TANK AND ANTENNA SHALL NOT BE LOCATED DETWEEN THE WET WELL, VALVE ASSEMBLY AND THE DRIVENVY. THE PUMP SHALL NOT BE LOCATED WITHIN 25 FEET OF THE EDGE OF THE LIFT STATION EASEMENT AT THE ROW LINE. 25. THE ANTENNA FOR THE RADIO TELEMETRY UNIT REQUIRES DIRECT LINE-OF-SIGHT SIGNALING CAPABILITY TO THE UTILITIES DEFARIMENT'S OFFICE THAT WILL RECEIVE THE SIGNAL THERE SHALL BE AN UNDESTRUCTED HORIZONTAL ANGLE OF FIFTER (15) DEGREES FROM THE ANDIO ADDESTRUCTED ANGLE FOR A TWENTY (20) FEET HORIZONTAL ANGLE OF FIFTER (15) DEGREES FROM THE ANDIONES ARE TO BE FOLD ADJUSTED IN COORDINATION WITH THE LOCATION OF THE CONSTRUCTED THELEMETRY ANTENNA. THE ANTENNA TOWER/MAST SHALL BE TO THE LEFT OF THE CONTROL PANEL. MANATEE COUNTY PUBLIC WORKS DEPARTMENT REV.BY DATE DATE OF APPROVAL
RJ1816HPL FIBERGLASS, BY NEMA 4X (16"Wx18"H) WHITE	48" 3" 316 SS (SCH 40) PIPE
TH TWO COATS OF 0 16 MILS WHERE DED IN CONCRETE. 12" MIN. T STATION PANEL US-33	NOTES: 1. ALL MATERIALS SHALL CONFORM TO MANATEE COUNTY STANDARDS. REFER TO DETAILS US-29 AND US-33 FOR FURTHER DETAILS. 2. REMOTE GENERATOR RECEPTACLE SHALL BE USED IN CONJUNCTION WITH THE ONE-SIDED CONTROL PANEL LAYOUT, REFER TO DETAIL US-OSL. 3. THE LOCATION AND ORIENTATION OF THE REMOTE GENERATOR RECEPTACLE SHALL BE DETERMINED IN THE FIELD WITH COUNTY PERSONNEL. MANATEE COUNTY PUBLIC WORKS DEPARTMENT REV.BY DATE REV.BY DATE OTE REMOTE EMERGENCY GENERATOR RECEPTACLE US-RGR
	vices Signature & Date

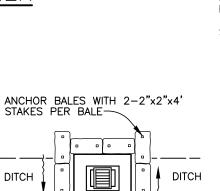


NO.	REVISION DESCRIPTION	BY	DATE



SYNTHETIC BALE PROTECTION AROUND INLETS OR SIMILAR STRUCTURES - TOP OF BANK PROPOSED SWALE - SILT BARRIER SEE FIGURE 2&3 - EXISTING SWALE SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE -SHOULDER LINE (FINAL GRADE) -SLOPE VARIES -ANCHOR FOR CORRUGATED PIPE AS DIRECTED BY THE ENGINEER BAG HEIGHT SUFFICIENT TO CONTAIN PIPE DISCHARGE AT DITCH LOCATIONS APRON CONTOURED TO NATURAL GROUND IN ABSENCE OF DITCH SECTION AA TEMPORARY SLOPE DRAIN FIGURE 15 **SATELLITE LIFT STATION R&R EROSION CONTROL DETAILS**

LOOSE SOIL PLACED BY SHOVEL & LIGHTLY COMPACTED ALONG UPSTREAM EDGE OF BALES -FILL SLOPE TYPICAL BALE SILT BARRIER FIGURE 3



DITCH BOTTOM INLET

