

SATELLITE LIFT STATION R&R SLS UPPER MANATEE RIVER ROAD (UMRR) 6117680

March 2024

L.S. NAME	RTU	ADDRESS	INFLUENT MH
UPPER MANATEE RIVER ROAD	330	1010 UPPER MANATEE RIVER RD., BRADENTON	PUBLIC

75 (883)	HILLSBOROUGH COUNTY LAKE PARRISH 62
TERRA CELIBAY (683) MANA RIVE 75 789 411 100 330	LAKE MANATEE 64 70 SARASOTA COUNTY 70 780

SARASOTA COUNTY

BID PLANS

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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. EXISTING WET WELL LINER SHALL BE REMOVED AND REPLACED.





SLS UPPER MANATEE RIVER ROAD 1010 UPPER MANATEE RIVER ROAD

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- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION THE PROJECT MANAGER IS: ANTHONY BENITEZ, P.E. AND CAN BE REACHED AT 941.708.7450 x7333.
- . SITE VISITS ARE MANDATORY FOR ALL BIDDERS.
- 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.
- 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
- 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
- . 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.
- 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.
- 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.

- . 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.

- 13. 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.
- 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.
- 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.
- I 6. 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.
- 17. 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.
- 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, 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 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 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.
- 21. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

- 22. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 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 CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION 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.
- 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.
- 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.
- 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.
- 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.

- 29. ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT ALL TIMES, I.E. VALVES, MANHOLE
- 30. 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.
- 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 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 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 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 CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.

DATE

- 35. ALL WATER SERVICES TO BE INSTALLED OR MODIFIED ON PRIVATE PROPERTY SHALL REQUIRE A PLUMBING PERMIT;
- A. THE CONTRACTOR'S PLUMBER SHALL INSTALL A REDUCED PRESSURE (RP) TYPE BACKFLOW PREVENTION ASSEMBLIES (BPA'S) EQUIPPED WITH A PRESSURE RELIEF VALVE AT THE POTABLE WATER METER WHENEVER ANY OF THE FOLLOWING CONDITIONS EXIST AT A PROPERTY:
- SWIMMING POOL.
- •IN-GROUND IRRIGATION SYSTEM OR UNDERGROUND SPRINKLERS
- SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL) •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,
- COMMERCIAL, INDUSTRIAL, MULTISTORY OR MULTIFAMILY RESIDENTIAL FACILITY,
- CROSS CONNECTION IS FOUND, • FOUNTAIN WITH A DEDICATED FILL PIPE,
- •FIRE SPRINKLER SYSTEM.
- 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 VALVE, WHERE NORMAL SUPPLY PRESSURE EXCEEDS 80 PSI. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION CONTROL STAFF AS
- C. IF IN-GROUND IRRIGATION SYSTEM IS CONNECTED TO THE POTABLE WATER LINE, AN ADDITIONAL REDUCED PRESSURE (RP) BPA SHALL BE INSTALLED AT THE
- 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.
- 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.

- 34. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 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.
- 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.
- 37. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513 OF THE INFRASTRUCTURE ENGINEERING STANDARD SPECIFICATION.
- 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 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.
- 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
- 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.

- 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 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 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.
- 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.
- 47. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH
- 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.
- 49. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.

THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.

- 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.
- 52. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S
- 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
- 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.
- 55. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
- 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 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, WBRD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND
- 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.
- 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.
- 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.
- 61. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 62. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 1.15 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 1.15 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 1.15 CAN BE PROVIDED UPON REQUEST.
- 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 THE RECORD DRAWINGS TO THE COUNTY PROJECT MANAGER AND/OR INSPECTOR ON DEMAND AS THE WORK PROGRESSES.

EXISTING UTILITY LOCATIONS

- 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)

- 65. INSTALL A FIBER OPTIC ROUTE MARKER AT THE PROPOSED PULL BOX AND RESTORE THE FIBER OPTIC LOCATION SYSTEM (I.E., ROUTE MARKERS AND TRACER
- 66. ALL MATERIAL REMOVED SHALL BE REPLACED WITH LIKE KIND TYPE AND SPECIFICATION.
- 67. NEW ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS) INFRASTRUCTURE SHOULD BE PLACED WHILE LEAVING EXISTING ATMS INFRASTRUCTURE IN PLACE AND INTACT AS LONG AS FEASIBLE TO LIMIT THE DURATION OF SYSTEM DOWN TIME.
- 68. THE DEVELOPER WILL NEED TO HIRE A CERTIFIED CONTRACTOR THAT IS LICENSED TO PERFORM THIS WORK TO RELOCATE THE ATMS INFRASTRUCTURE AT THEIR
- 69. AT LEAST FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MUKUNDA GOPALAKRISHNA, P.E., PTOE OF THE MANATEE COUNTY TRAFFIC ENGINEERING DIVISION AT (941) 749-3500, EXT. 7813 TO INFORM HIM OF CONSTRUCTION OPERATIONS
- 70. THE CONTRACTOR MUST PROVIDE A SPLICE DIAGRAM FOR THE PROPOSED SPLICE ENCLOSURE AT THIS TIME.
- 71. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS OF ANY EXCAVATION OR DEMOLITION ACTIVITY THROUGH SUNSHINE ONE CALL OF FLORIDA INC. (811) AND SHALL ALSO NOTIFY THOSE UTILITY OWNERS/AGENCIES LISTED WITHIN OR IMPACTED BY THESE PLANS, NOT LESS THAN TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.
- 72. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RIGHT-OF-WAY USE PERMITS WITH MATT MERUCCI, MANATEE COUNTY PUBLIC WORKS INFRASTRUCTURE INSPECTION OFFICER, AT (941) 708-7450, EXT. 7342.
- 73. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING BOND REQUIREMENTS WITH BRANDY WILKINS, MANATEE COUNTY PUBLIC WORKS SENIOR ADMINISTRATIVE SPECIALIST, AT (941) 708-7450, EXT. 7215.
- 74. DELIVER THREE HARD-COPY SETS OF AS-BUILT RECORDS DRAWINGS THAT ARE SIGNED AND SEALED BY THE ENGINEER OF RECORD, AND ONE COMPACT DISC O RECORD DRAWINGS IN ADOBE ACROBAT (.PDF) AND AUTOCAD (.DWG) FORMAT TO THE MANATEE COUNTY TRAFFIC ENGINEERING DIVISION (ATTN: MR. MUKUNDA GOPALAKRISHNA, P.E., PTOE) AT 2101 47TH TERRACE EAST BRADENTON, FL 34203. RECORD DRAWINGS MUST BE DELIVERED TO THE COUNTY AT LEAST TWO (2) BUSINESS DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION.
- 75. UPON PASSING THE FINAL INSPECTION, THE CONTRACTOR SHALL SEND A WRITTEN REQUEST TO THE MANATEE COUNTY TRAFFIC OPERATIONS DIVISION, 2904 12TH STREET COURT EAST, BRADENTON, FLORIDA 34208 (ATTN: MR. AARON BURKETT) REQUESTING TO TRANSFER MAINTENANCE FROM THE CONTRACTOR TO MANATEE COUNTY. MANATEE COUNTY WILL RESPOND WITHIN 5 WORKING DAYS TO ESTABLISH A TIME TABLE FOR THE TRANSFER OF MAINTENANCE RESPONSIBILITY.

EXISTING BENCH MARK BUSH CM - CONCRETE MONUMENT TREE IRON PIPE OAK TREE IRON ROD PALM TREE NAIL & DISK **ELEVATION** PARCEL ID NO. EDGE OF VEGETATION PARCEL ID NO. LOT NO. GUY WIRE - WOOD FENCE POWER POLE BARBED WIRE FENCE LIGHT POLE FM FORCE MAIN ------PW ------- POTABLE WATER MAIL BOX SANITARY SEWER SPRINKLER STORM DRAIN ----- GAS LINE © GAS MARKER BACKFLOW PREVENTER OVERHEAD CHARTER BLOW OFF VALVE ——— CHR ——— UNDERGROUND CHARTER OVERHEAD ELECTRIC WATER VALVE ——— BE ——— UNDERGROUND ELECTRIC (A) AIR RELEASE VALVE ----- OH FTR ----- OVERHEAD FRONTIER ----- FTR ------ UNDERGROUND FRONTIER WATER METER TELEPHONE SERVICE BOX UTILITY BOX -EDGE OF CONCRETE UTILITY RISER -EDGE OF ROAD ---- TOE OF SLOPE FLOW DIRECTION GRATE INLET TOP OF BANK MITERED END SECTION - PROPERTY LINE

EMERGENCY CONTACTS

RIGHT OF WAY

MANATEE COUNTY PUBLIC WORKS DEPT 1022 26TH AVENUE EAST BRADENTON, FL. 34208 J. SHEA SHOUN, P.E. (941) 708-7450 EXT. 7661 FAX: (941) 708-7415

STORM SEWER MANHOLE

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@mymanatee.org

John.Plott@ftr.com FLORIDA POWER & LIGHT 1253 12TH AVENUE EAST PALMETTO, FL 34221 TODD BOLKEMA (941) 927-4262 ÈMERGENCY: 1-800-4-OUTAGE TODD.BOLKEMA@FPL.COM MANATEE COUNTY HEALTH DEPT. 410 6th AVENUE EAST BRADENTON, FL. 34208

941) 748-0747 EXT. 1355

FAX: (941) 750-9364

FRONTIER

JOHN PLOTT

(941) 906-6707

1701 RINGLING BLVD.

SARASOTA, FL. 34236

FAX: (941) 906-6706

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

(863) 767-4660

kendell.coker@preco.coop

SOUTHWEST FLORIDA WATER

MANAGEMENT DISTRICT SARASOTA PROTECTION SERVICE OFFICE 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 ED WATSON 6750 FRUITVILLE ROAD SARASOTA, FL. 34240 PHONE: (813) 470-5875 FAX: (813) 470-5993 (941) 377-3722 FAX: (941) 373-7660 CHARTER COMMUNICATION 5413 E. STATE ROAD 64 BRADENTON, FL. 34208-5535 TOM WRIGHT 941) 748-3816 EXT. 21348 Tom.Wright@charter.com

DEPARTMENT OF ENVIRONMENTAL

SUNSHINE STATE ONE CALL OF

ABBREVIATIONS

RIGHT OF WAY

CONCRETE

ASPHALT

DRIVEWAY

SIDEWALK

✓✓✓ FLOW ARROW

EDGE OF PAVEMENT

BACK OF CURB

ASPH

DRWY

SWK

FLORIDA 1-(800) 432-4770 WACHULA, FL 33873 KENDELL COKER

REVISION DESCRIPTION

SATELLITE LIFT STATION R&R SLS UPPER MANATEE RIVER ROAD 1010 UPPER MANATEE RIVER ROAD GENERAL NOTES & LEGEND



ENGINEERING SERVICES

1022 26th Avenue East, Bradenton, FL 34208

J. SHEA SHOUN, P.E. PROJECT # 6117680 SURVEY # NA SEC./TWN./RGE 30/34/19 SCALE N.T.S. No. 60923 BY DATE STATE OF SURVEYED NA NA 2/22 DESIGNED JSS DRAWN JKW 2/22 CHECKED JSS



UPPER MANATEE RIVER ROAD, RTU 330

1010 UPPER MANATEE RIVER ROAD, BRADENTON

27.488927°N (LAT.)

82.433945°W (LONG.)

NOTE(S):

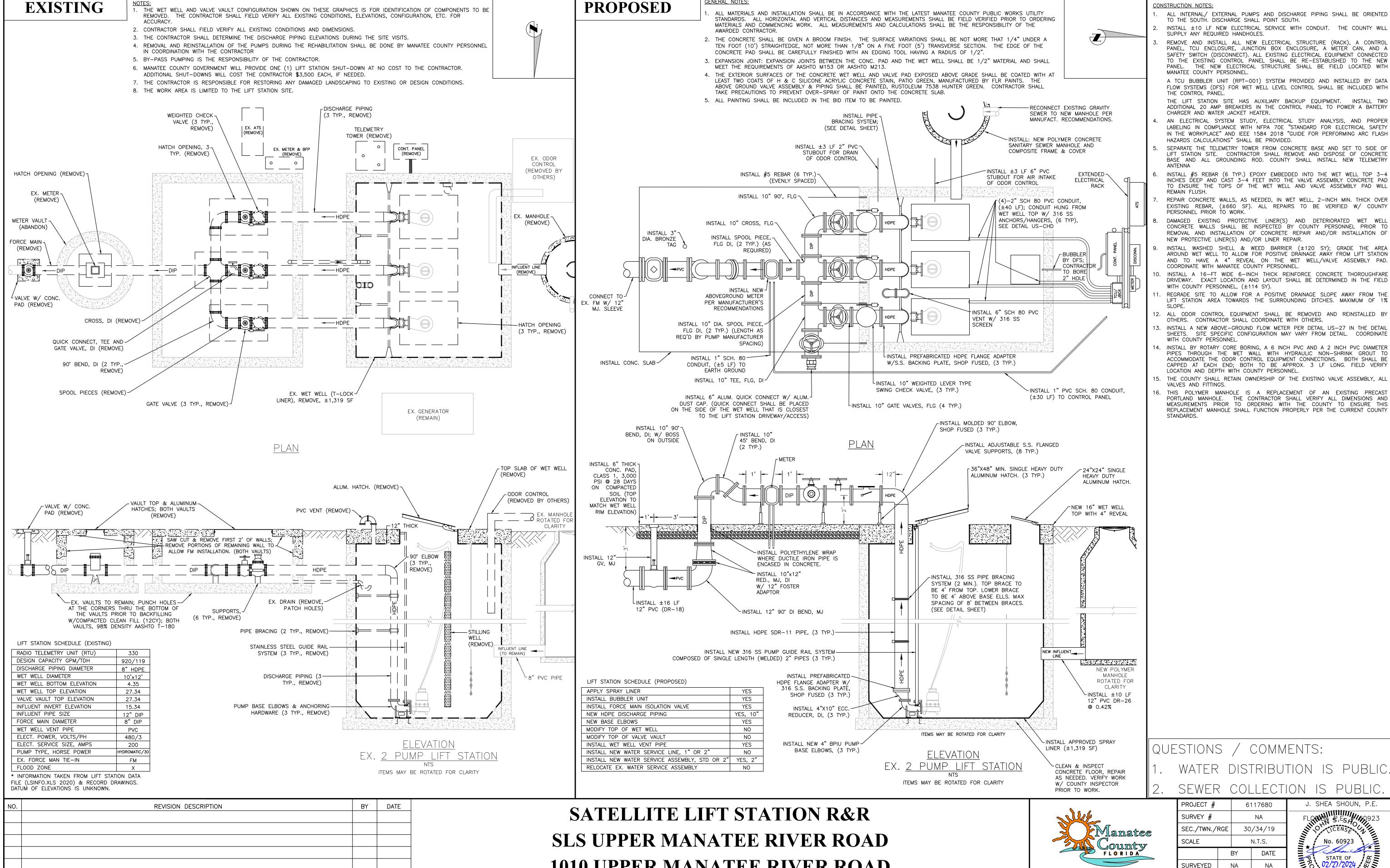
- 1. LIFT STATION SITE VISITS MAY BE COORDINATED WITH ERIK GIBSON, 941-792-8811 x5377.
- 2. DATA ON THE COUNTY'S UTILITY INFRASTRUCTURE MAY BE RESEARCHED AND VIEWED BY UTILIZING THE PUBLIC ACCESS TO THE COUNTY'S GIS SYSTEM. USE AN INTERNET BROWSER AND ENTER THE FOLLOWING URL, "https://www.mymanatee.org/gisapps/mobile/index.html?type=utilities-public".

NO.	REVISION DESCRIPTION	BY	DATE

SATELLITE LIFT STATION R&R
SLS UPPER MANATEE RIVER ROAD
1010 UPPER MANATEE RIVER ROAD
VICINITY MAP



	PROJECT #	6117680		J. SHEA SHOUN, P.E.	
	SURVEY # SEC./TWN./RGE 30,		NA	FLQ RIM S .E S.#/6 0923	
			/34/19	No. 60923	
	SCALE	CALE		N.T.S.	No. 60923
			BY	DATE	STATE OF STATE
	SURVEYED		NA	NA	STATE OF 02/27/2024
	DESIGNED	JSS		2/22	SONAL ENHIN
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	CHECKED	·	JSS	_	SHEET 03 OF 09



GENERAL NOTES:

CONSTRUCTION NOTES:

- 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 TO THE NEW PANEL. THE NEW ELECTRICAL STRUCTURE SHALL BE FIELD LOCATED WITH
- 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 TO ENSURE THE TOPS OF THE WET WELL AND VALVE ASSEMBLY PAD WILL
- REPAIR CONCRETE WALLS, AS NEEDED, IN WET WELL, 2-INCH MIN. THICK OVER EXISTING REBAR, (±660 SF). ALL REPAIRS TO BE VERIFIED W/ COUNTY
- CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO REMOVAL AND INSTALLATION OF CONCRETE REPAIR AND/OR INSTALLATION OF
- DRIVEWAY. EXACT LOCATION AND LAYOUT SHALL BE DETERMINED IN THE FIELD
- LIFT STATION AREA TOWARDS THE SURROUNDING DITCHES. MAXIMUM OF 1%
- 12. ALL ODOR CONTROL EQUIPMENT SHALL BE REMOVED AND REINSTALLED BY
- SHEETS. SITE SPECIFIC CONFIGURATION MAY VARY FROM DETAIL. COORDINATE
- INSTALL BY ROTARY CORE BORING, A 6 INCH PVC AND A 2 INCH PVC DIAMETER PIPES THROUGH THE WET WALL WITH HYDRAULIC NON-SHRINK GROUT TO
- 16. THIS POLYMER MANHOLE IS A REPLACEMENT OF AN EXISTING PRECAST PORTLAND MANHOLE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND MEASUREMENTS PRIOR TO ORDERING WITH THE COUNTY TO ENSURE THIS REPLACEMENT MANHOLE SHALL FUNCTION PROPERLY PER THE CURRENT COUNTY

WATER DISTRIBUTION IS PUBLIC.

1010 UPPER MANATEE RIVER ROAD UMRR REHABILITION PLAN



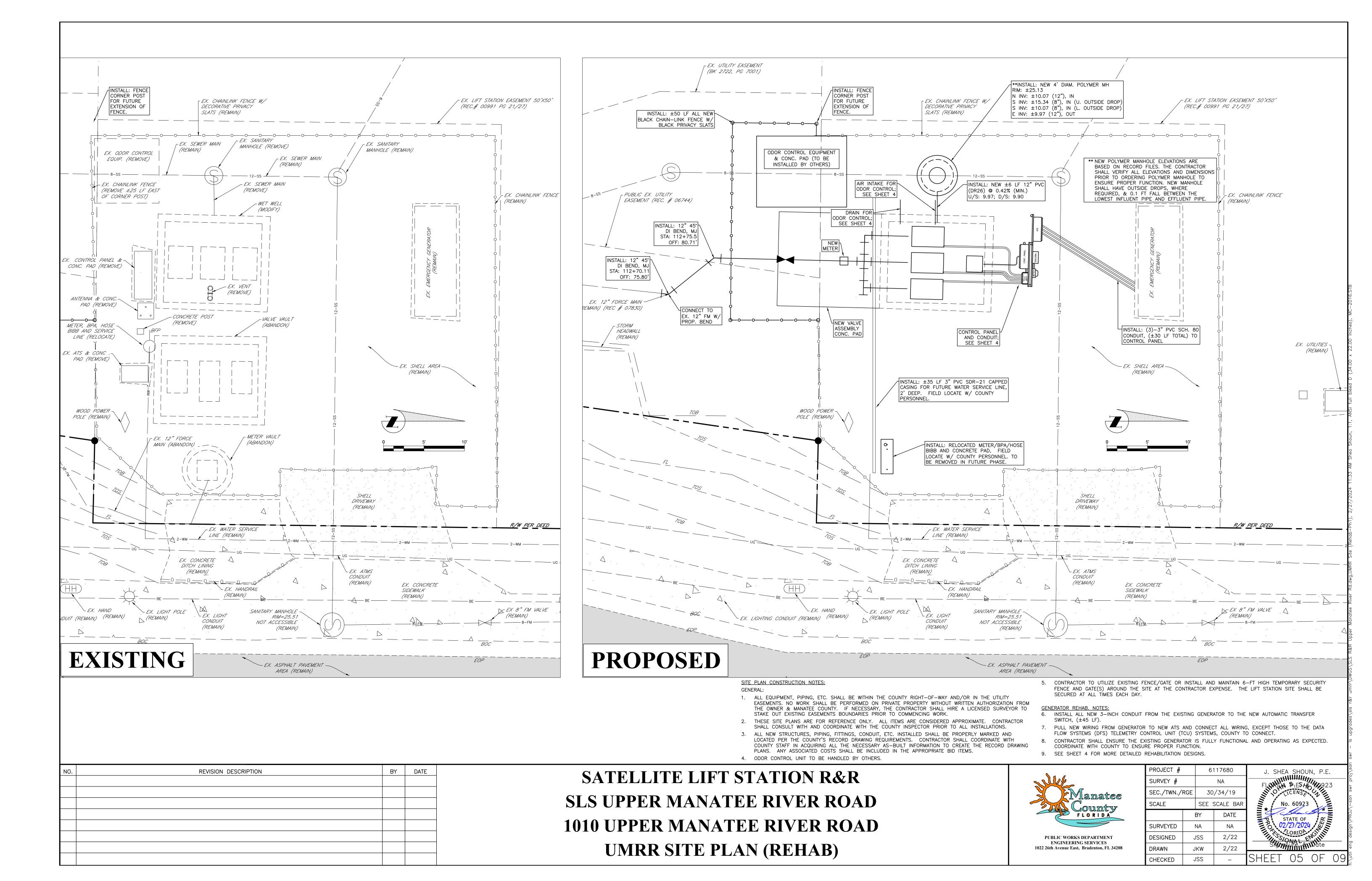
ENGINEERING SERVICES

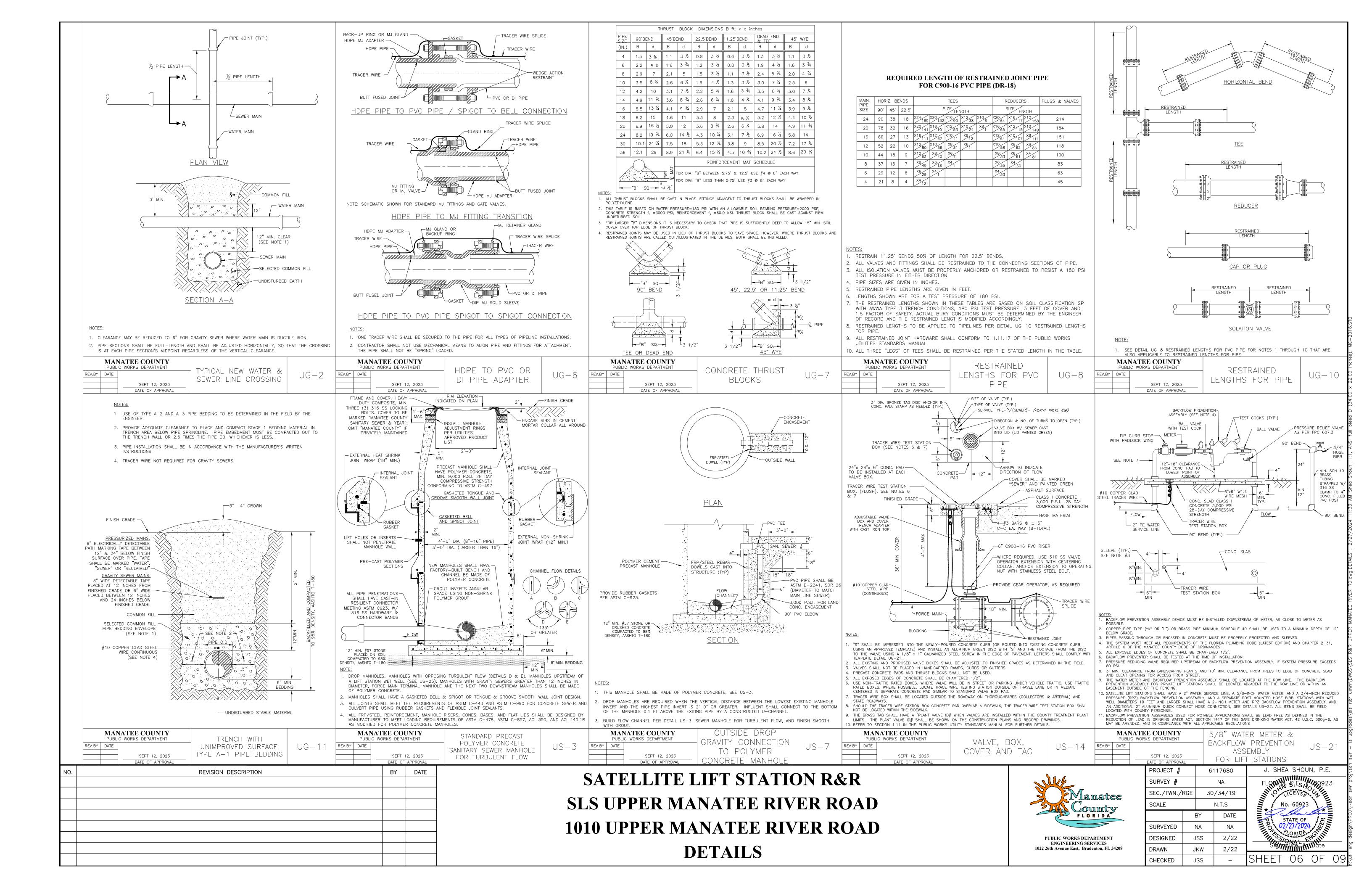
1022 26th Avenue East, Bradenton, FL 34208

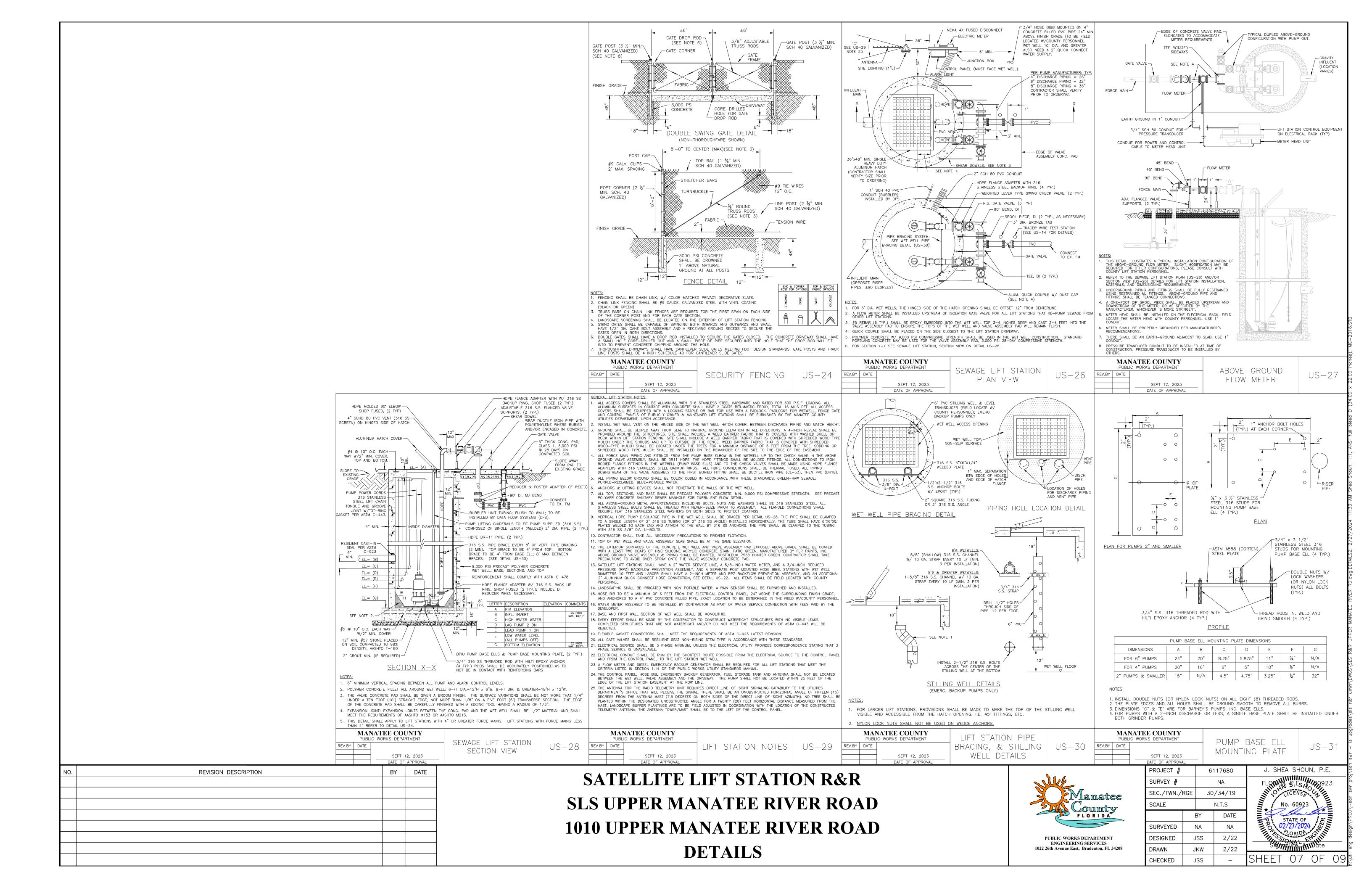
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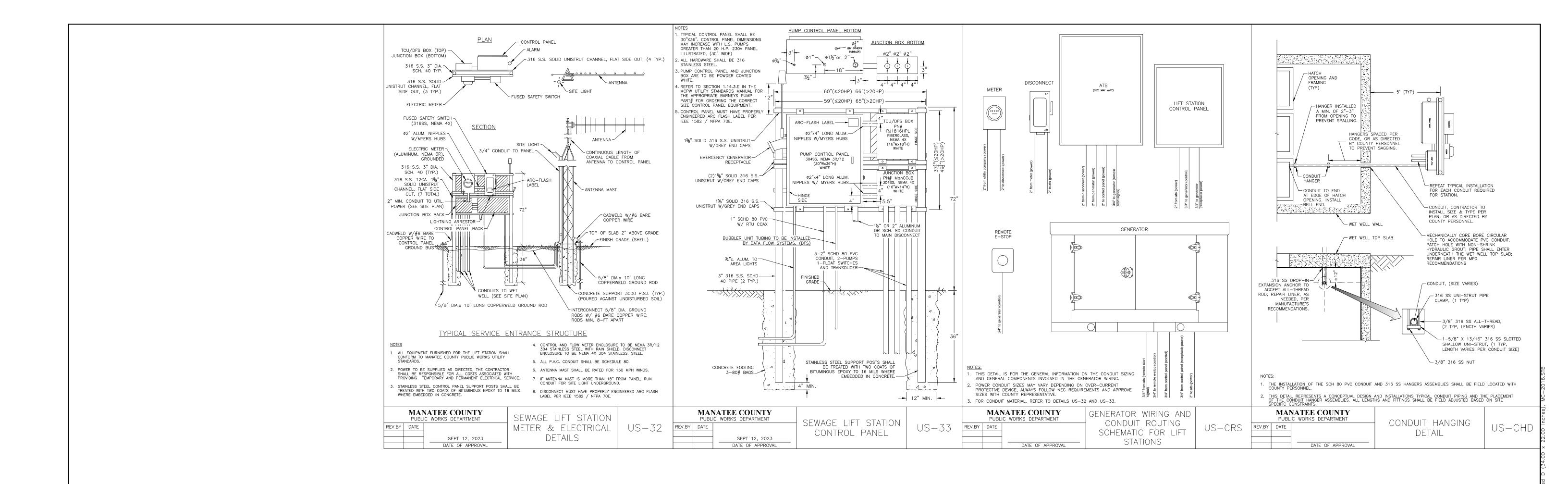
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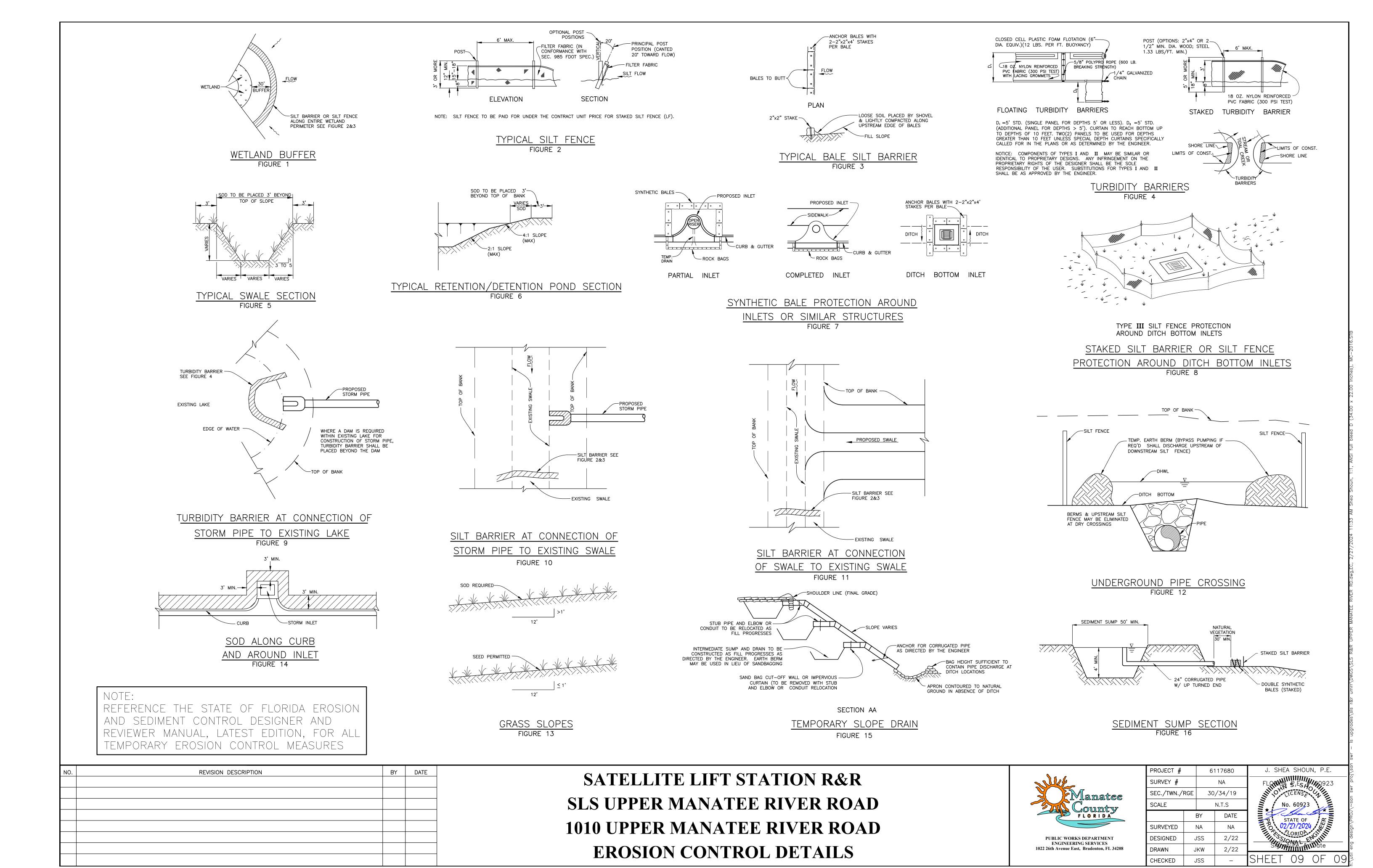


NO.	REVISION DESCRIPTION	BY	DATE

SATELLITE LIFT STATION R&R SLS UPPER MANATEE RIVER ROAD 1010 UPPER MANATEE RIVER ROAD DETAILS



	SURVEY #			117680	J. SHEA SHOUN, P.E.
				NA	FLORING 8.ES.# 160923
				/34/19	FLORING 5:ES # 100923
	SCALE	SCALE			No. 60923
			BY	DATE	STATE OF
	SURVEYED		NA	NA	02/27/2024
	DESIGNED	·	ISS	2/22	- INGS CORID ENGINE
	DRAWN	J	KW	2/22	Signature Signature
	CHECKED	·	ISS	_	SHEET 08 OF 09

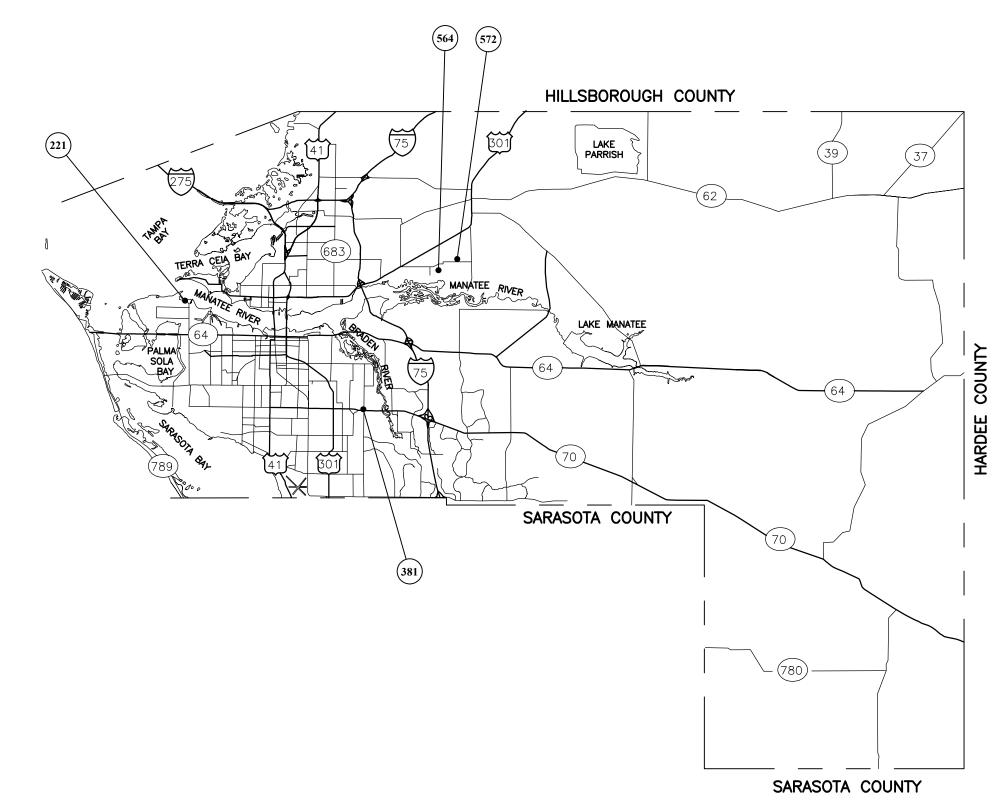




SATELLITE LIFT STATION R&R 2024 GROUP 1 402-0019707 / 5001301

March 2024

L.S. NAME	RTU	ADDRESS	PROJECT JL NO.	INFLUENT MH
12-D	221	7830 DESOTO MEMORIAL DR., BRADENTON	402-5163888	PUBLIC
SR-70	381	5236 45TH ST. E., BRADENTON	402-5163887	PUBLIC
RIVERWOODS 1	564	3202 RIVERWOODS DR., PARRISH	402-5163886	PUBLIC
KINGSFIELDS GROVES 1	572	11710 OLD TAMPA RD., PARRISH	402-5163885	PUBLIC



NO.	INDEX OF SHEETS
01	COVER
02	GENERAL NOTES & LEGEND
03	VICINTIY MAPS
04	12-D, RTU 221
05	SR-70, RTU 381
06	RIVERWOODS 1, RTU 564
07	KINGSFIELD GROVES 1, RTU 572
08	DETAILS1
09	DETAILS2
10	DETAILS3
11	EROSION CONTROL DETAILS

Know what's below

Call before you dig

BID PLANS

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.



TELLITE LIFT STATION R 2024 GROUP 1

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REVISION DESCRIPTION										
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No. 60923 No. 60923 STATE OF OZ/27/2024 STONAL EN STONAL EN										
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- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION THE PROJECT MANAGER IS: ANTHONY BENITEZ, P.E. AND CAN BE REACHED AT 941.708.7450 x7333.
- . SITE VISITS ARE MANDATORY FOR ALL BIDDERS.
- 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.
- 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
- 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
- . 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.
- 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.
- 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.

- . 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.

- 13. 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.
- 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.
- 5. 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.
- I 6. 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.
- 17. 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.
- 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, 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 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 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.
- 21. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

- 22. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 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 CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION 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.
- 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.
- 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.
- 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.
- 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.

- 29. ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT ALL TIMES, I.E. VALVES, MANHOLE
- 30. 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.
- 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 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 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 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 CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.

- 35. ALL WATER SERVICES TO BE INSTALLED OR MODIFIED ON PRIVATE PROPERTY SHALL REQUIRE A PLUMBING PERMIT;
- A. THE CONTRACTOR'S PLUMBER SHALL INSTALL A REDUCED PRESSURE (RP) TYPE BACKFLOW PREVENTION ASSEMBLIES (BPA'S) EQUIPPED WITH A PRESSURE RELIEF VALVE AT THE POTABLE WATER METER WHENEVER ANY OF THE FOLLOWING CONDITIONS EXIST AT A PROPERTY:
 - SWIMMING POOL.
 - •IN-GROUND IRRIGATION SYSTEM OR UNDERGROUND SPRINKLERS • SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL)
 - •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,
 - COMMERCIAL, INDUSTRIAL, MULTISTORY OR MULTIFAMILY RESIDENTIAL FACILITY,
- CROSS CONNECTION IS FOUND, • FOUNTAIN WITH A DEDICATED FILL PIPE,

•FIRE SPRINKLER SYSTEM.

- 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 VALVE, WHERE NORMAL SUPPLY PRESSURE EXCEEDS 80 PSI. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION CONTROL STAFF AS
- C. IF IN-GROUND IRRIGATION SYSTEM IS CONNECTED TO THE POTABLE WATER LINE, AN ADDITIONAL REDUCED PRESSURE (RP) BPA SHALL BE INSTALLED AT THE
- 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.
- 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.

35. ALL DISTURBED GRASSED AREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS

- 34. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
- 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.
- 37. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513 OF THE INFRASTRUCTURE ENGINEERING STANDARD SPECIFICATION.
- 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 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.
- 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
- 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.

- 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 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 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.
- 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.
- 47. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH
- 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.
- 49. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- 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.
- 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.
- 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
- 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.
- 55. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
- 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 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 MEDÍA 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.
- 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.
- 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.
- 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.
- 61. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 62. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 1.15 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 1.15 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 1.15 CAN BE PROVIDED UPON REQUEST.
- 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 THE RECORD DRAWINGS TO THE COUNTY PROJECT MANAGER AND/OR INSPECTOR ON DEMAND AS THE WORK PROGRESSES.

EXISTING UTILITY LOCATIONS

- 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)

MAINTENANCE OF TRAFFIC

- 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 ARE CONCEPTUAL
- 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 STANDARD INDEX 600.
- 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.

		EXIS	STING	
		BENCH MARK		BUSH
СМ	•	CONCRETE MONUMENT		TREE
	0	IRON PIPE	532	OAK TREE
	•	IRON ROD	S.	PALM TREE
	Δ	HUB		PINE TREE
	0	NAIL & DISK	*	
×5.23		ELEVATION		
1234	9	PARCEL ID NO.		
1234		PARCEL ID NO.	\sim	EDGE OF VEGETATION
(77))	LOT NO.		CHAIN LINK FENCE
	\leftarrow	GUY WIRE		WOOD FENCE
PP	ø	POWER POLE		BARBED WIRE FENCE
	₽	LIGHT POLE	FM	FORCE MAIN
	\Box'	MAIL BOX	PW	POTABLE WATER
	þ	SIGN		RECLAIMED WATER
REF	9	REFLECTOR	ss	SANITARY SEWER
	0	SPRINKLER	s	STORM DRAIN
	©	GAS MARKER	GAS	GAS LINE
	- O-	BACKFLOW PREVENTER		OVERHEAD CHARTER
	Mo	BLOW OFF VALVE	CHR	UNDERGROUND CHARTER
FH	\bigcirc	FIRE HYDRANT	——— OE ———	OVERHEAD ELECTRIC
WV	\boxtimes	WATER VALVE	BE	UNDERGROUND ELECTRIC
ARV	lack	AIR RELEASE VALVE	——— OH FTR ———	OVERHEAD FRONTIER
WM		WATER METER	FTR	UNDERGROUND FRONTIER
	S	SANITARY SEWER MANHOLE	PCO	UNDERGROUND PRECO
	0	SANITARY SEWER CLEAN OUT	FPL	UNDERGROUND FPL
SB#1	+	SOIL BORING LOCATION	——— OH ———	OVERHEAD UTILITY
TEL (TEL	TELEPHONE SERVICE BOX	+++++++++++++++++++++++++++++++++++++++	RAIL ROAD TRACKS
UB.	<u>x</u>	UTILITY BOX		EDGE OF CONCRETE
QF.)	UTILITY RISER		EDGE OF ROAD
	1	FLOW DIRECTION		TOE OF SLOPE
GI		GRATE INLET		TOP OF BANK
		MITERED END SECTION		PROPERTY LINE
		STORM SEWER MANHOLE		RIGHT OF WAY

EMERGENCY CONTACTS

MANATEE COUNTY PUBLIC WORKS DEPT 1022 26TH AVENUE EAST BRADENTON, FL. 34208 SHEA SHOUN, P.E. (941) 708-7450 EXT. 7661 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 FAST BRADENTON, FL 34203 VISHAL KAKKAD, P.E. (941) 749-3500 EXT. 7812 FAX: (941) 749-3571 vishal.kakkad@mymanatee.org. FLORIDA POWER & LIGHT 1253 12TH AVENUE EAST PALMETTO, FL 34221 TODD BOLKEMA (941) 927-4262 ÈMERGENCY: 1-800-4-OUTAGE TODD.BOLKEMA@FPL.COM MANATEE COUNTY HEALTH DEPT. 410 6th AVENUE EAST

BRADENTON, FL. 34208

FAX: (941) 750-9364

1022 26th Avenue East, Bradenton, FL 34208

(941) 748-0747 EXT. 1355

FRONTIER

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1701 RINGLING BLVD.

SARASOTA, FL. 34236

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(941) 906-6707

John.Plott@ftr.com

(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

KENDELL COKER

(863) 767-4660

kendell.coker@preco.coop

SOUTHWEST FLORIDA WATER

SERVICE OFFICE

MANAGEMENT DISTRICT SARASOTA PROTECTION

6750 FRUITVILLE ROAD ED WATSON SARASOTA, FL. 34240 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

DEPARTMENT OF ENVIRONMENTAL

TEMPLE TERRACE, FL 33637

13051 N. TELECOM PKWY

ABBREVIATIONS

RIGHT OF WAY

CONCRETE

ASPHALT

DRIVEWAY

→ FLOW ARROW

SIDEWALK

EDGE OF PAVEMENT

BACK OF CURB

DRWY

PEACE RIVER ELECTRIC FLORIDA COOPERATIVE, INC. 1-(800) 432-4770 P.O. BOX 1310 WACHULA, FL 33873

REVISION DESCRIPTION



Call before you dig

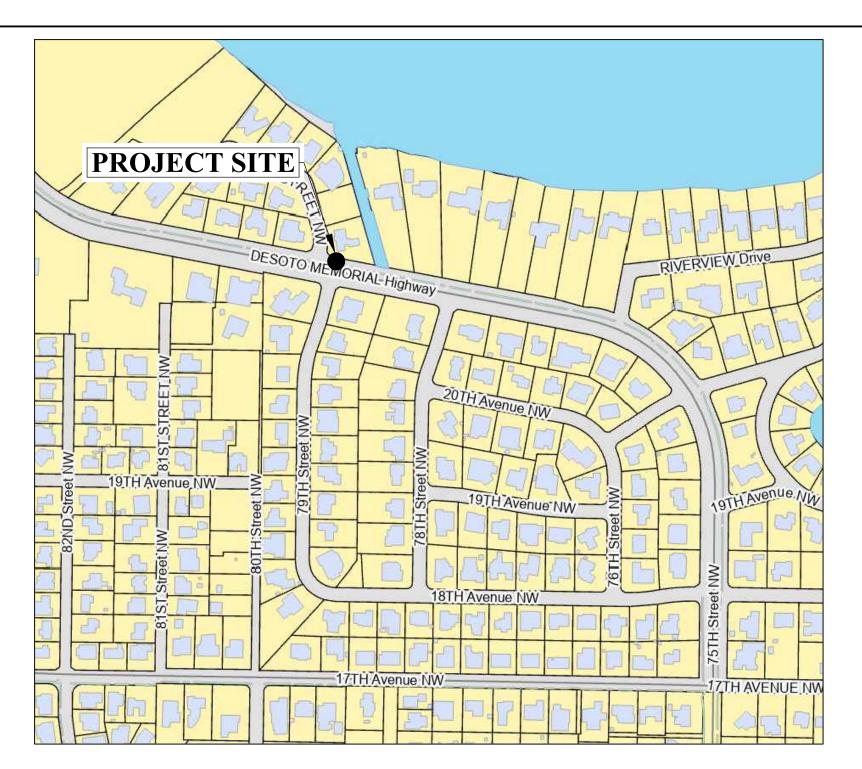
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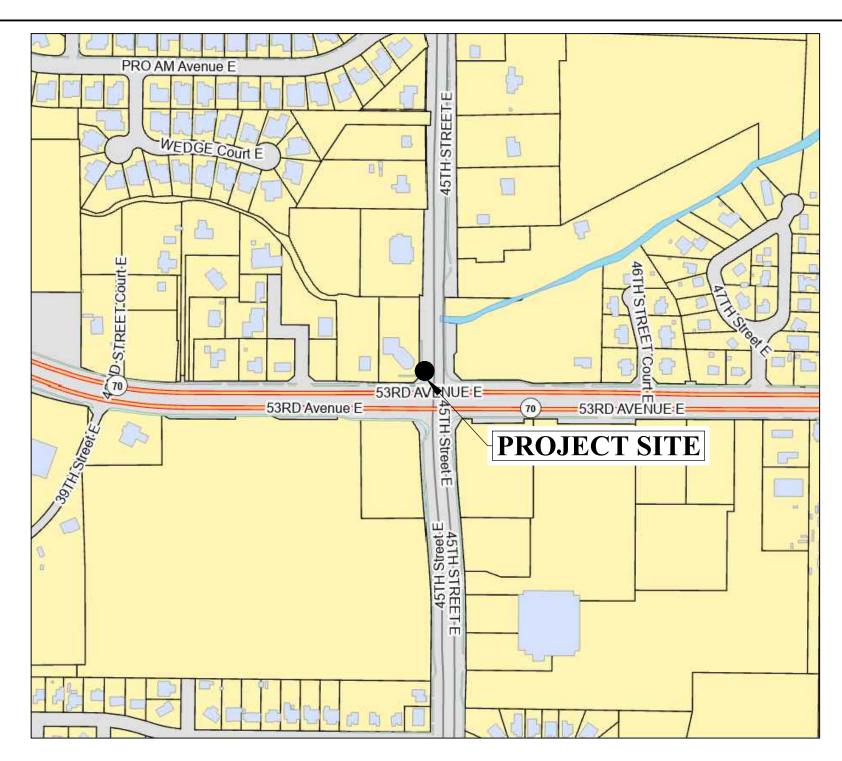
SATELLITE LIFT STATION R&R **2024 GROUP 1** GENERAL NOTES & LEGEND



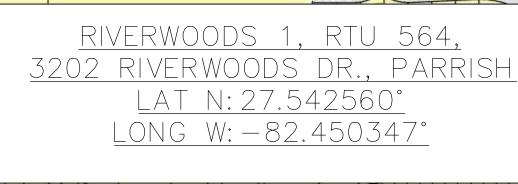
J. SHEA SHOUN, P.E. PROJECT # SURVEY # NA SEC./TWN./RGE **VARIES** SCALE N.T.S. No. 60923 BY DATE STATE OF SURVEYED NA NA 5/2023 DESIGNED JSS DRAWN JKW 5/2023 CHECKED JSS



12-D, RTU 221 7830 DESOTO MEMORIAL DR., BRADENTON LAT N: 27.518517° LONG W: -82.640636°



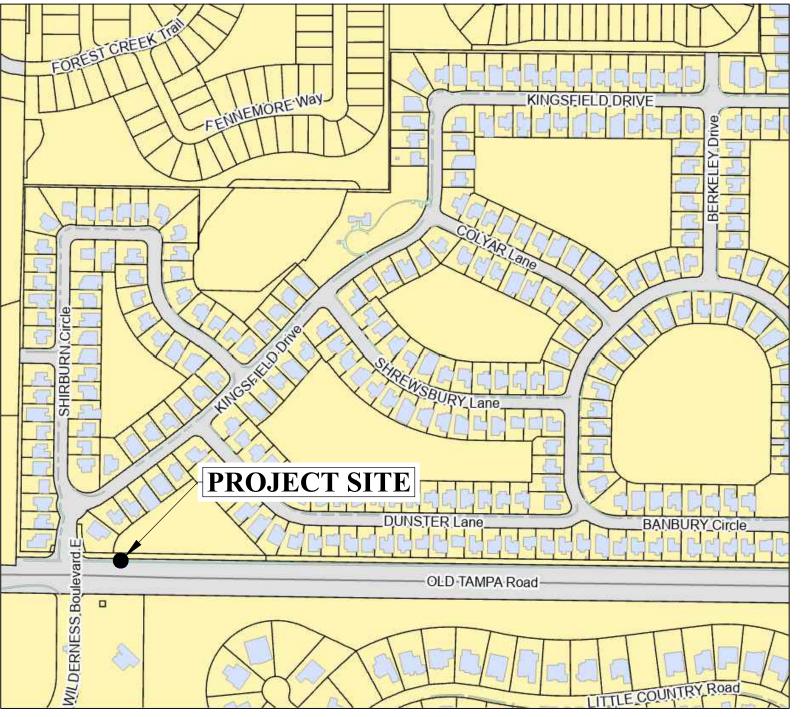
SR-70, RTU 381,
5236 45TH ST E., BRADENTON
LAT N: 27.446484°
LONG W: -82.505701°



PROJECT SITE

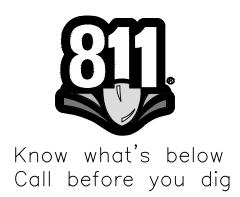
NOTE(S):

- 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 VIEWED BY UTILIZING THE PUBLIC ACCESS TO THE COUNTY'S GIS SYSTEM. USE AN INTERNET BROWSER AND ENTER THE FOLLOWING URL, "https://www.mymanatee.org/gisapps/mobile/index.html?type=utilities-public".



KINGSFIELD GROVES 1, RTU 572, 11710 OLD TAMPA RD., PARRISH LAT N: 27.548659° LONG W: -82.436499°

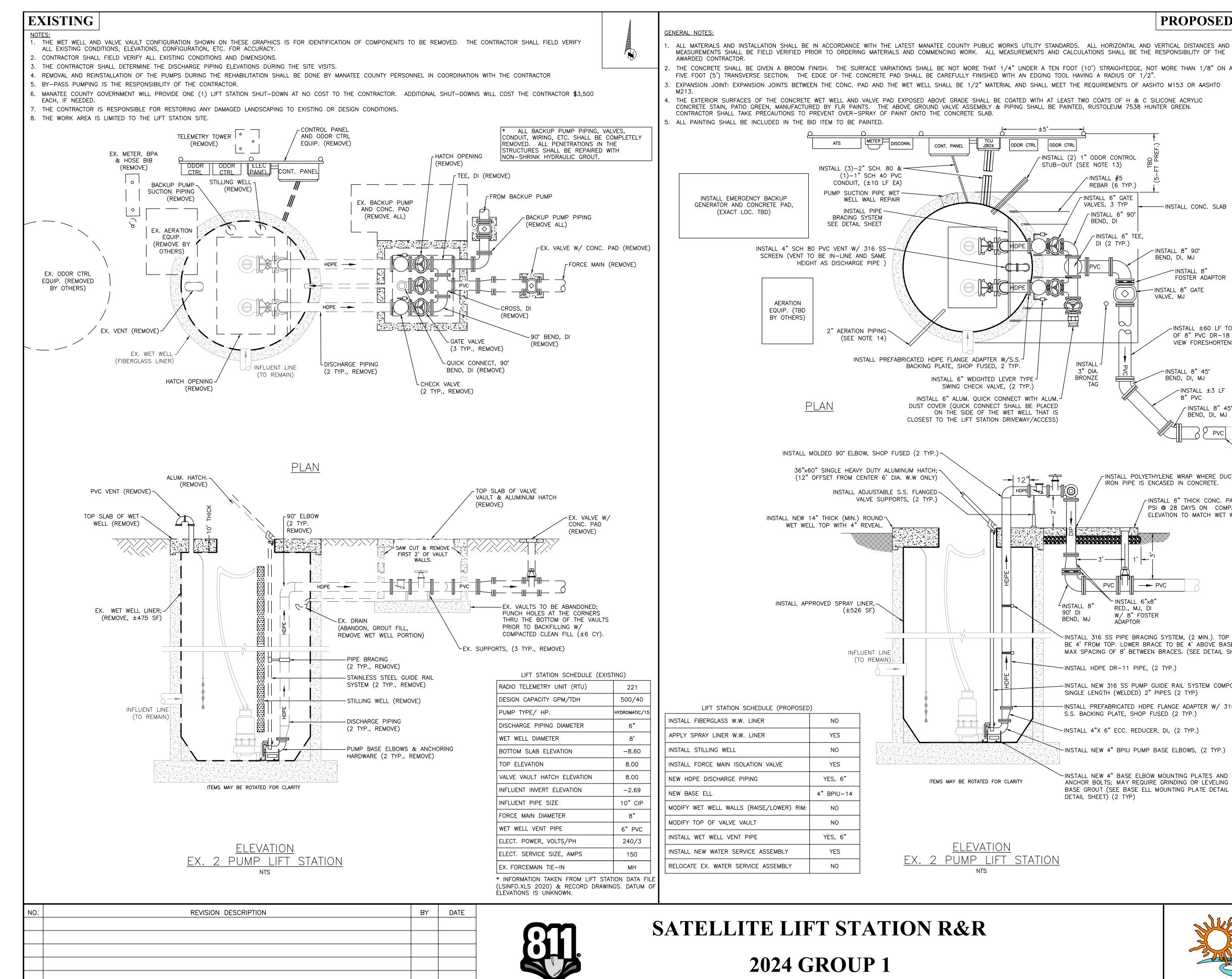
NO.	REVISION DESCRIPTION	BY	DATE	



SATELLITE LIFT STATION R&R 2024 GROUP 1 VICINTIY MAPS



PROJECT #			0019707 / 001301	J. SHEA SHOUN, P.E.				
SURVEY #			NA	FLORIDA 5.ES # 60923				
SEC./TWN./	RGE	\	VARIES	FLORING S.Es. # 10923				
SCALE			N.T.S.	No. 60923				
	E	3Y	DATE	STATE OF				
SURVEYED	1	NΑ	NA	02/27/2024 / W				
DESIGNED	J	SS	5/2023					
DRAWN	J	KW	5/2023	Signal Milling Signal S				
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PROPOSED

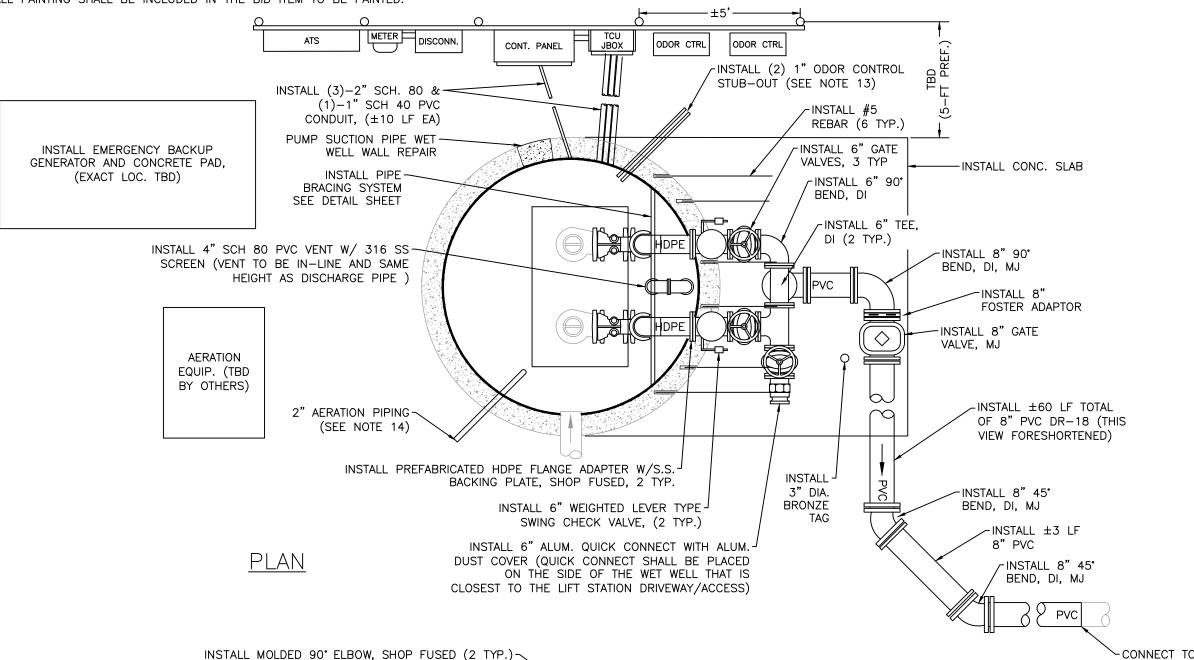
ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS. ALL HORIZONTAL AND VERTICAL DISTANCES AND

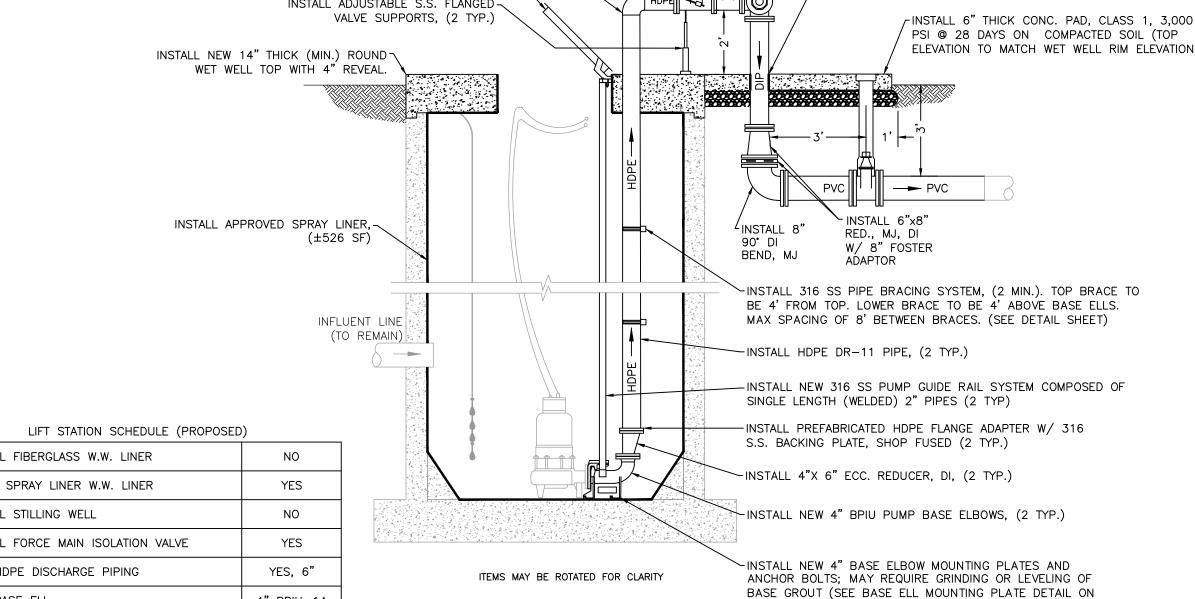
MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE

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". 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

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.





CONSTRUCTION NOTES:

EX. 8" FM W/

8" MJ SLEEVE

-INSTALL POLYETHYLENE WRAP WHERE DUCTILE

IRON PIPE IS ENCASED IN CONCRETE.

DETAIL SHEET) (2 TYP)

CONTRACTOR TO CALL 811 PRIOR TO COMMENCING WORK. PROTECT AND SUPPORT ALL EXISTING UNDERGROUND UTILITIES (MANATEE COUNTY / OTHERS) IN THE ROW OR ADJACENT AREAS.

INSTALL NEW 200 AMP ELECTRICAL SERVICE ENTRANCE FEEDER TO ACCOMMODATE NEW MAIN DISCONNECT SIZE REQUIREMENTS ±150 LF NEW ELECTRICAL SERVICE WITH CONDUIT FROM OTHER SIDE OF THE ROADWAY VIA DIRECTIONAL DRILLING.

REMOVE AND INSTALL ALL NEW ONE-SIDED ELECTRICAL STRUCTURE (RACK). CONTROL PANEL, TCU ENCLOSURE, JUNCTION BOX ENCLOSURE, A METER CAN, AND A SAFETY SWITCH (DISCONNECT). ALL REMAINING EXISTING ELECTRICAL EQUIPMENT CONNECTED TO THE EXISTING CONTROL PANEL SHALL BE RE-ESTABLISHED TO THE NEW PANEL. THE NEW ELECTRICAL STRUCTURE SHALL BE FIELD LOCATED WITH MANATEE COUNTY PERSONNEL. GENERATOR RECEPTACLE SHALL BE INSTALLED IN A REMOTE LOCATION. CONTRACTOR RESPONSIBLE FOR VERIFYING SIZE OF RACK TO HOLD ALL PROPOSED ELECTRICAL ENCLOSURES/COMPONENTS.

A TCU BUBBLER UNIT (RPT-001) SYSTEM PROVIDED AND INSTALLED BY DATA FLOW SYSTEMS (DFS) FOR WET WELL LEVEL CONTROL AND SHALL BE INCLUDED WITH THE CONTROL PANEL

THE LIFT STATION SITE HAS AUXILIARY EQUIPMENT. INSTALL SIX (6) ADDITIONAL BREAKERS: THREE 20 AMP BREAKERS (BATTERY CHARGER, WATER JACKET HEATER & SPACE HEATER); ONE 3-POLE 20 AMP BREAKER (THIOGUARD); ONE 3-POLE 30 AMP BREAKER (AERATION); AND ONE 1-POLE 120V 20 AMP BREAKER (BIOAMP) IN THE CONTROL PANEL.

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.

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(S). COUNTY SHALL INSTALL NEW TELEMETRY ANTENNA.

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 TO ENSURE THE TOPS OF THE WET WELL AND VALVE ASSEMBLY PAD WILL REMAIN

WET WELL CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO INSTALLATION OF NEW SPRAY LINER AND/OR LINER REPAIR.

REPAIR CONCRETE WALLS, AS NEEDED, IN WET WELL, 2-INCH MIN. THICK OVER EXISTING REBAR, (±131 SF). ALL REPAIRS TO BE VERIFIED WITH COUNTY PERSONNEL PRIOR TO WORK.

. INSTALL A NEW 2—INCH WATER SERVICE AND 6"x2" TAPPING SADDLE; A STANDARD METER/BPA ASSEMBLY: AND A 3/4-INCH HOSE BIBB ASSEMBLY PER COUNTY STANDARDS VIA HORIZONTAL DIRECTIONAL DRILL. THE EXISTING WATER MAIN IS LOCATED IN THE ROW ON THE OTHER SIDE OF THE ROADWAY. 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. AL ITEMS SHALL BE FIELD LOCATE WITH MANATEE COUNTY PERSONNEL, (±60 LF).

. ABANDON EXISTING WATER SERVICE SADDLE AND CORPORATION AT MAIN; INSTALL A BRASS PLUG IN CORPORATION STOP.

2. REGRADE SITE TO ALLOW FOR A POSITIVE DRAINAGE SLOPE AWAY FROM THE LIFT STATION AREA TOWARDS THE SURROUNDING DITCHES. MAXIMUM OF 1% SLOPE.

ALL ODOR CONTROL EQUIPMENT SHALL BE REMOVED AND REINSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH OTHERS.

4. INSTALL TWO (2) CAPPED STUB-OUTS; 3 LF EACH OF (2)-1" PVC 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.

AERATION UNIT TO BE REMOVED BY OTHERS. CONTRACTOR TO INSTALL A 2-INCH AERATION PIPING (ALL 316 SS) BY CORE BORING THROUGH THE WET WELL WALL, USE HYDRAULIC NON-SHRINK GROUT TO REPAIR THE HOLE FOR THIS STATION ONLY. THE AERATION PIPING SHALL RUN FROM THE AERATION UNIT TO THE INSIDE OF THE WET WELL. SEE SHEET 10 FOR A CONCEPTUAL LAYOUT AND DESIGN. ALL SHALL BE FIELD LOCATED AND COORDINATED WITH COUNTY PERSONNEL.

QUESTIONS / COMMENTS: WATER DISTRIBUTION IS PUBLIC. 2. SEWER COLLECTION IS PUBLIC



Call before you dig

SATELLITE LIFT STATION R&R 12-D, RTU 221

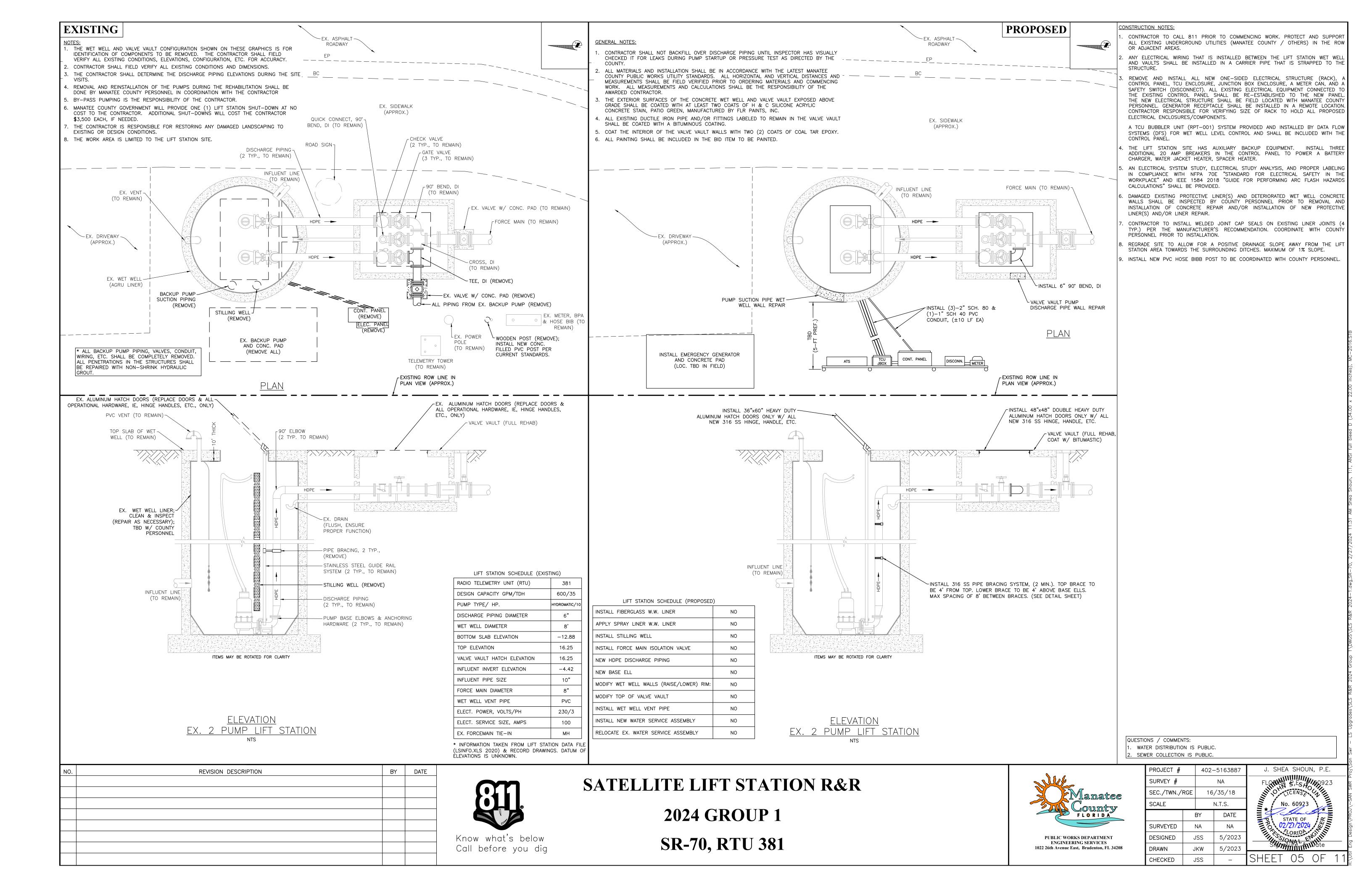


ENGINEERING SERVICES

1022 26th Avenue East, Bradenton, FL 34208

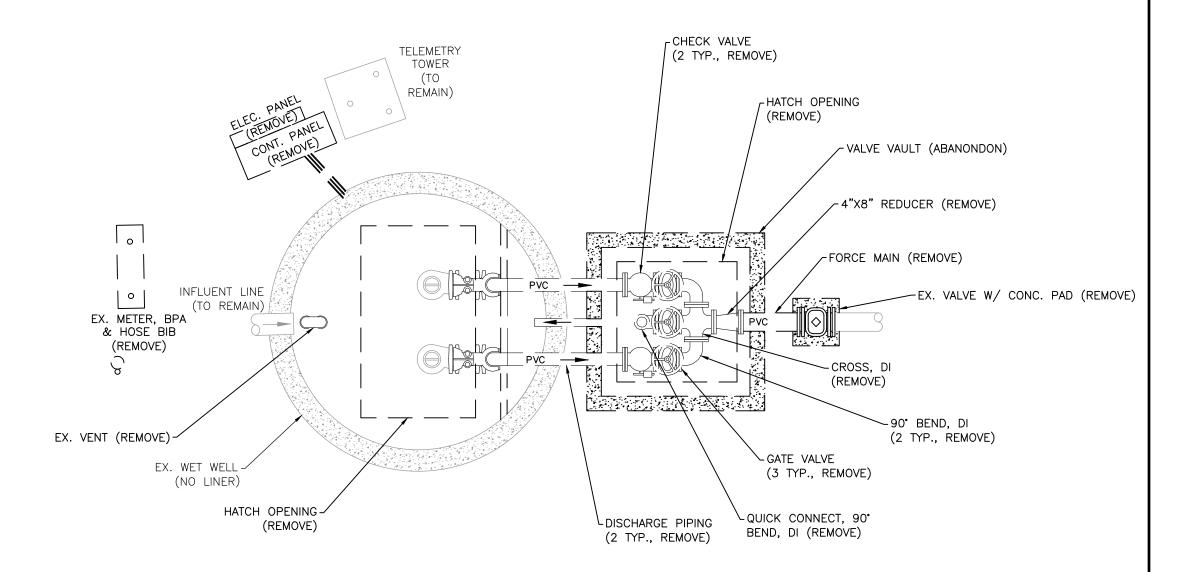
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SURVEY #		NA			
SEC./TWN./I	RGE	19/34/17			
SCALE		N.T.S.			
		BY	DATE		
SURVEYED		NA	NA		
DESIGNED	DESIGNED J		5/2023		
DRAWN	J	KW	5/2023		
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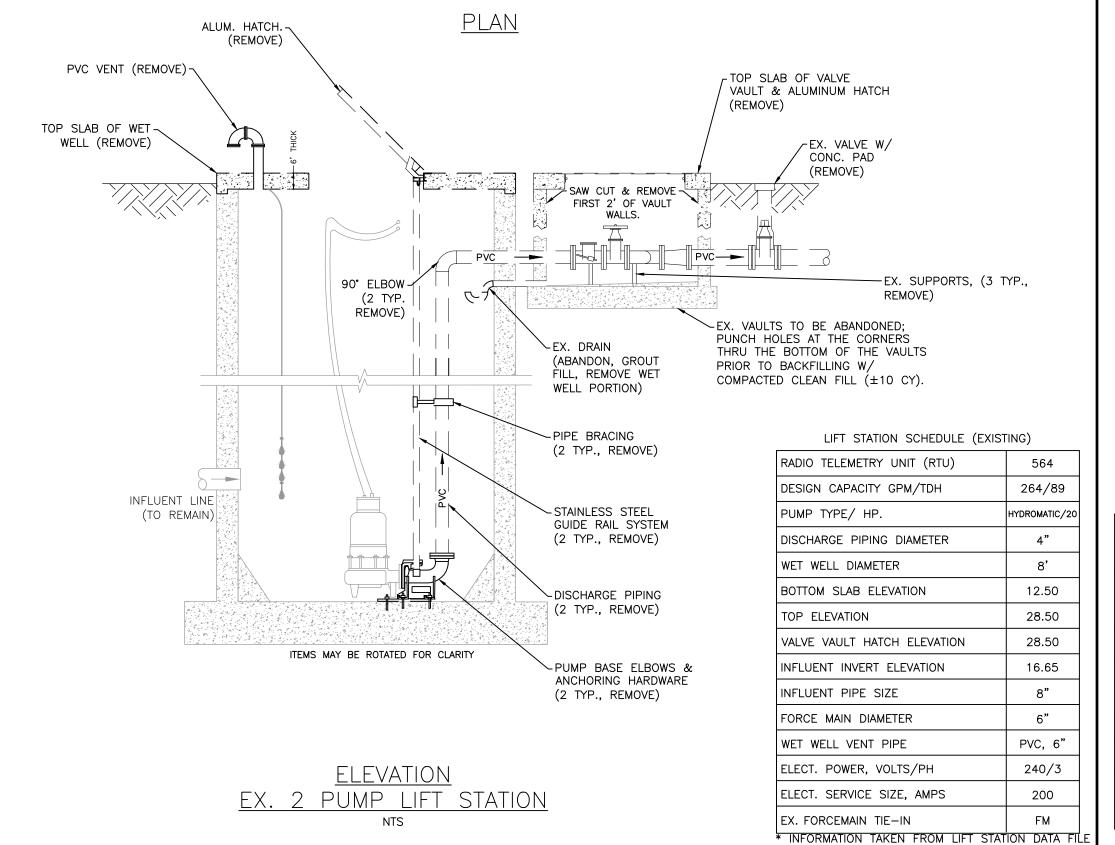
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SHEET 04 OF 11



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.
- 3. THE CONTRACTOR 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
- 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.

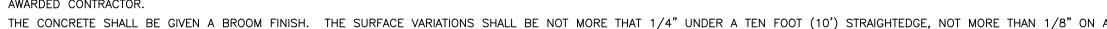




GENERAL NOTES:

NEW BASE ELL

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

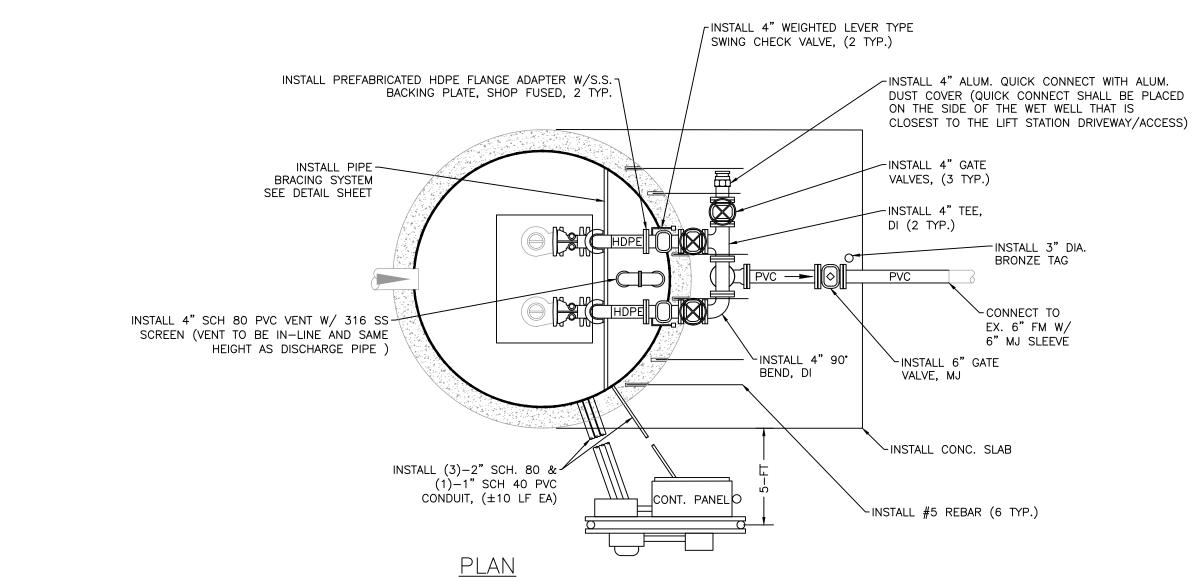


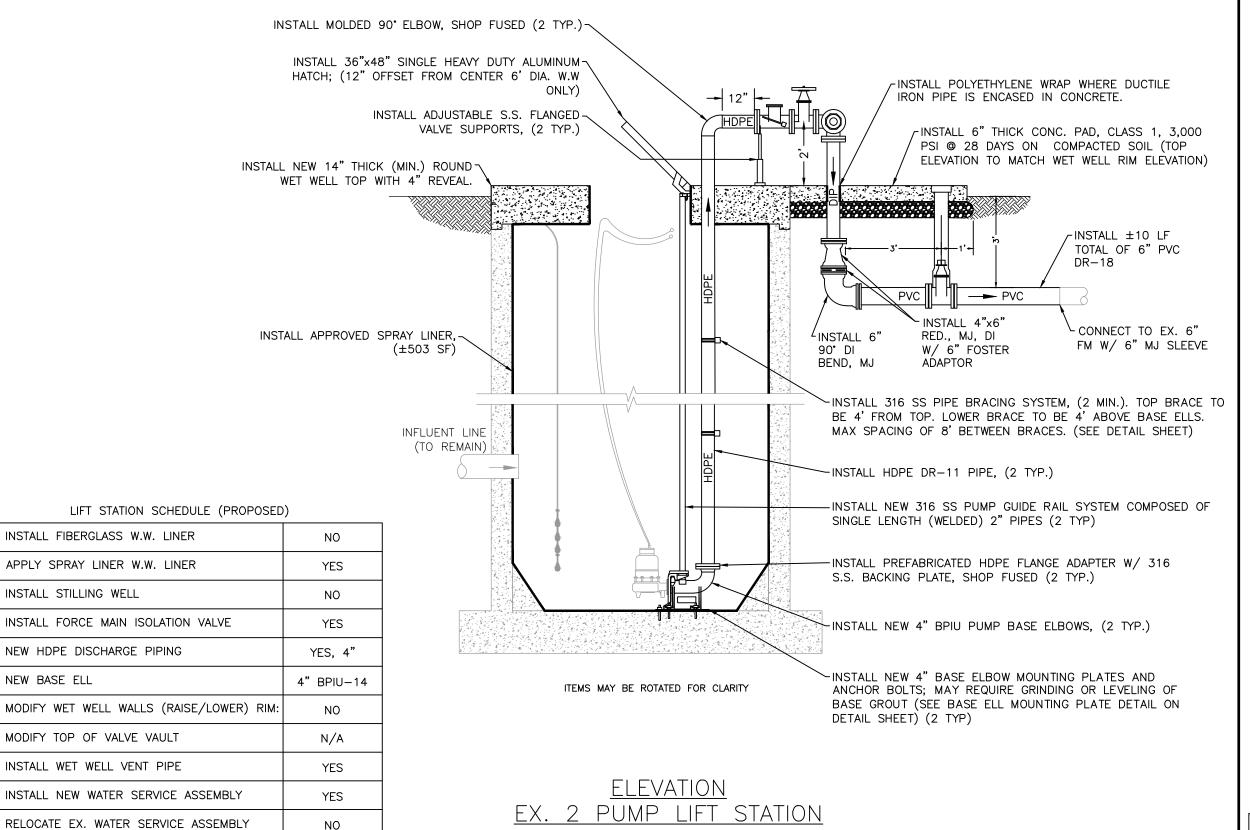
EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONC. PAD AND THE WET WELL SHALL BE 1/2" MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO

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

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".

- 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.
- ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM TO BE PAINTED.





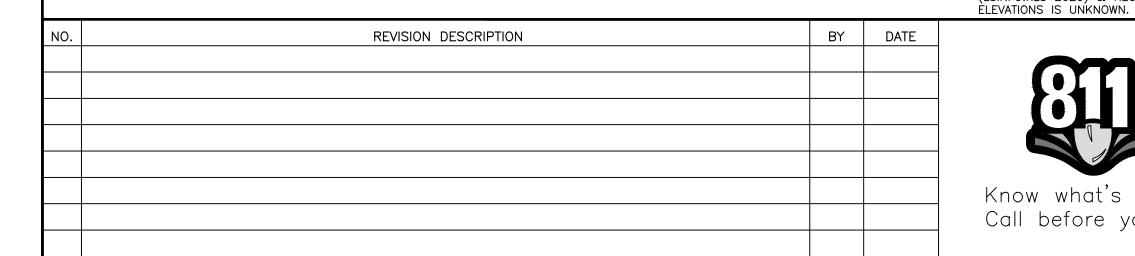
PROPOSED

INSTALL ±50 LF NEW ELECTRICAL SERVICE WITH CONDUIT, COUNTY WILL SUPPLY ALL REQUIRED HANDHOLES.

CONSTRUCTION NOTES:

- 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 TO THE NEW PANEL. NEW ELECTRICAL STRUCTURE SHALL BE FIELD LOCATED WITH MANATEE COUNTY PERSONNEL CONTRACTOR RESPONSIBLE FOR VERIFYING SIZE OF RACK TO HOLD ALL PROPOSED ELECTRICAL ENCLOSURES/COMPONENTS.
 - 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.
- 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.
- 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 TO ENSURE THE TOPS OF THE WET WELL AND VALVE ASSEMBLY PAD WILL REMAIN
- REPAIR CONCRETE WALLS, AS NEEDED, IN WET WELL, 2-INCH MIN. THICK OVER EXISTING REBAR, (±252 SF). ALL REPAIRS TO BE VERIFIED WITH COUNTY
- PERSONNEL PRIOR TO WORK. WET WELL CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR
- TO INSTALLATION OF NEW SPRAY LINER AND/OR LINER REPAIR.
- INSTALL A NEW 2-INCH WATER SERVICE AND 8"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 HORIZONTAL DIRECTIONAL DRILL. THI EXISTING WATER MAIN IS LOCATED IN THE ROW ON THE OTHER SIDE OF THI ROADWAY. 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, (±83 LF).
- ABANDON EXISTING WATER SERVICE SADDLE AND CORPORATION AT THE MAIN; INSTALL A BRASS PLUG IN CORPORATION STOP.
- INSTALL A 12-FT WIDE 6-INCH THICK REINFORCE CONCRETE STANDARD DRIVEWAY EXACT LOCATION AND LAYOUT SHALL BE DETERMINED IN THE FIELD WITH COUNTY PERSONNEL, $(\pm 45 \text{ SY})$.
- D. REGRADE SITE TO ALLOW FOR A POSITIVE DRAINAGE SLOPE AWAY FROM THE LIFT STATION AREA TOWARDS THE SURROUNDING DITCHES. MAXIMUM OF 1% SLOPE.

LIFT STATION LOCATED IN ITS OWN AREA . WATER IS PUBLIC SEWER IS PUBLIC





Call before you dig

(LSINFO.XLS 2020) & RECORD DRAWINGS. DATUM OF

SATELLITE LIFT STATION R&R **2024 GROUP 1** RIVERWOODS 1, RTU 564



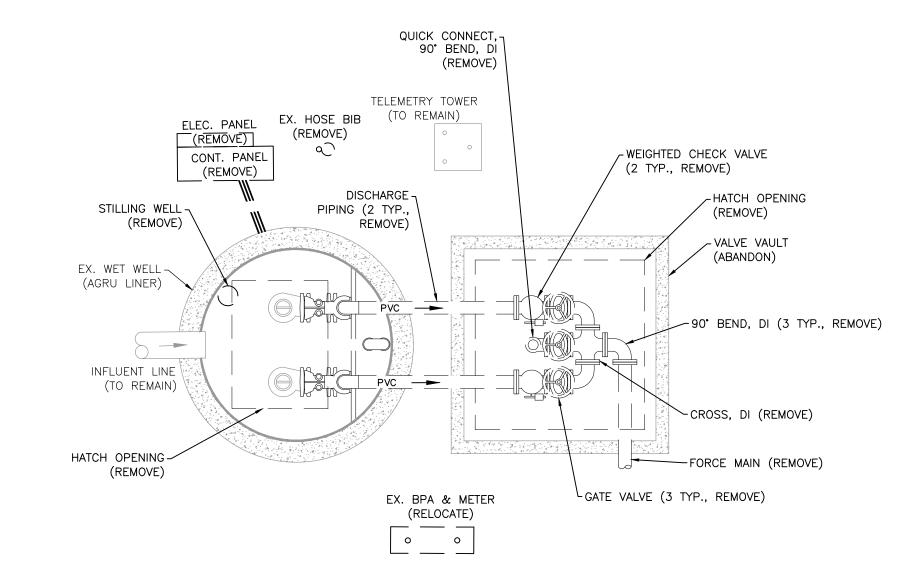
Manatee County FLORIDA	
PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES	
1022 26th Avenue East, Bradenton, FL 34208	

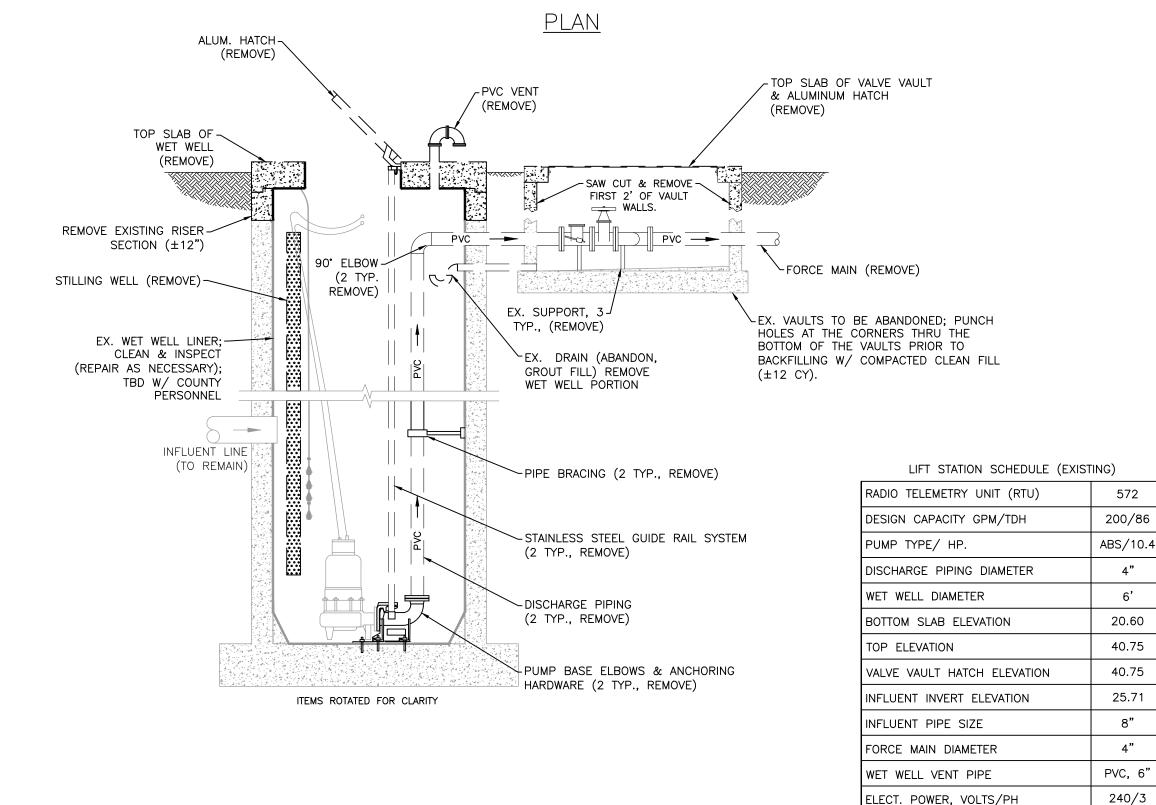
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PROJECT #		402-	-5163886	J. SHEA SHOUN, P.E.					
SURVEY #			NA	FL GRIDA S.ES # 150923					
SEC./TWN./	RGE	12	/34/18	FLORING S.ES. # 60923 No. 60923					
SCALE			N.T.S.	No. 60923					
		BY	DATE	STATE OF					
SURVEYED		NA	NA	STATE OF 02/27/2024					
DESIGNED		JSS	5/2023						
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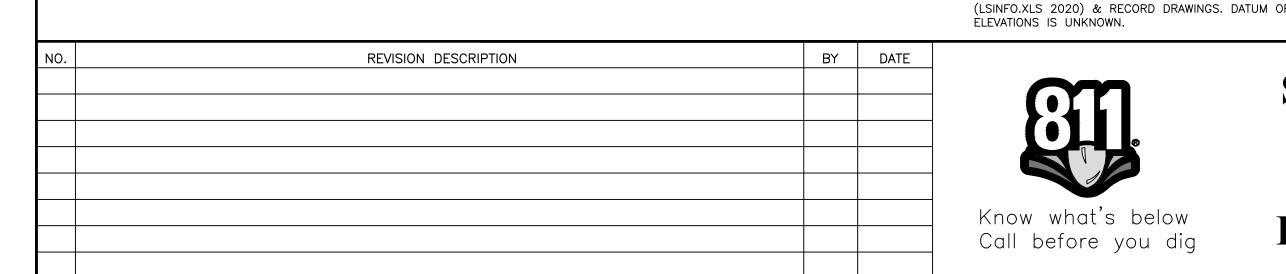
EXISTING

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.
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- 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.
- 3. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE.







ELEVATION

EX. 2 PUMP LIFT STATION



ELECT. SERVICE SIZE, AMPS

* INFORMATION TAKEN FROM LIFT STATION DATA FIL

EX. FORCEMAIN TIE-IN

SATELLITE LIFT STATION R&R **2024 GROUP 1** KINGSFIELD GROVES 1, RTU 572

YES, 4"

4" BPIU-14

YES

N/A

YES

NO

YES

NEW HDPE DISCHARGE PIPING

MODIFY TOP OF VALVE VAULT

INSTALL WET WELL VENT PIPE

MODIFY WET WELL WALLS (RAISE/LOWER) RIM:

INSTALL NEW WATER SERVICE ASSEMBLY

RELOCATE EX. WATER SERVICE ASSEMBLY

NEW BASE ELL

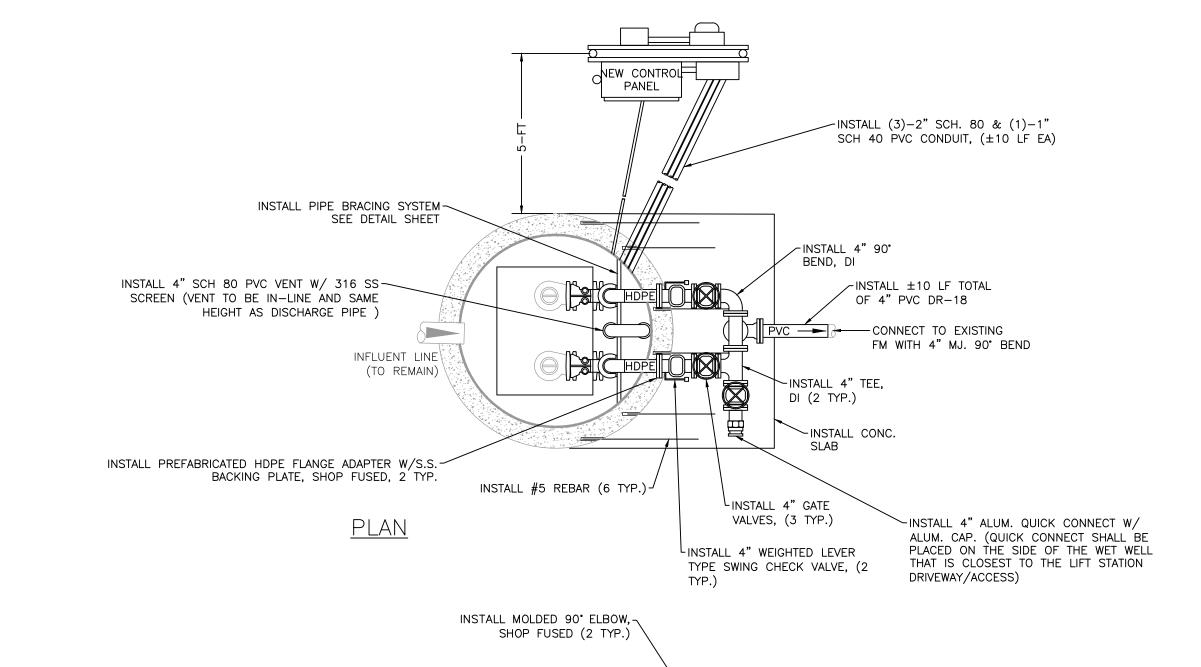
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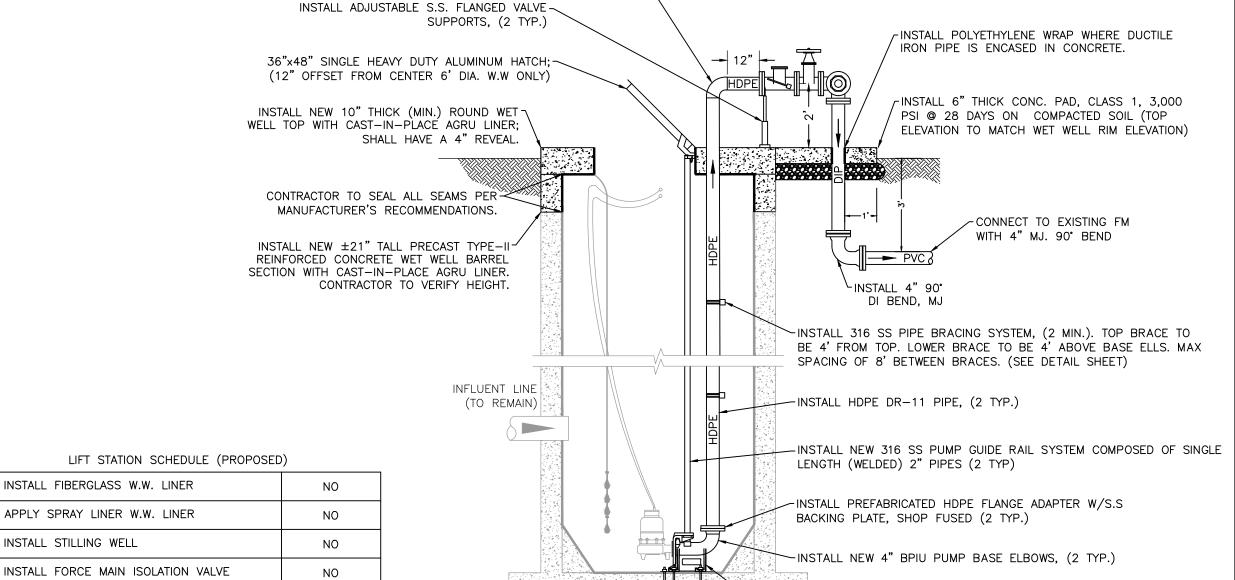
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GENERAL NOTES:

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

- 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".
- 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
- 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.
- . ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM TO BE PAINTED.





INSTALL NEW 4" BASE ELBOW MOUNTING PLATES AND ANCHOR BOLTS; MAY REQUIRE GRINDING OR LEVELING OF BASE GROUT (SEE BASE ELL ITEMS MAY BE ROTATED FOR MOUNTING PLATE DETAIL ON DETAIL SHEET) (2 TYP) **ELEVATION**

EX. 2 PUMP LIFT STATION

ONSTRUCTION NOTES:

PROPOSED

- INSTALL ±10 LF NEW ELECTRICAL SERVICE WITH CONDUIT. COUNTY TO SUPPLY ANY REQUIRED HANDHOLES.
- 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 TO THE NEW PANEL. NEW ELECTRICAL STRUCTURE SHALL BE FIELD LOCATED WITH MANATEE COUNTY PERSONNEL CONTRACTOR RESPONSIBLE FOR VERIFYING SIZE OF RACK TO HOLD ALL PROPOSED ELECTRICAL ENCLOSURES/COMPONENTS.
 - 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.
- 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.
- 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 TO ENSURE THE TOPS OF THE WET WELL AND VALVE ASSEMBLY PAD WILL REMAIN
- REPAIR CONCRETE WALLS, AS NEEDED, IN WET WELL, 2-INCH MIN. THICK OVER EXISTING REBAR, (±118 SF). ALL REPAIRS TO BE VERIFIED WITH COUNTY PERSONNEL PRIOR TO WORK.
- 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.
- RELOCATE THE EXISTING METER, BPA, & HOSE BIBB ASSEMBLY. THE METER AND BPA SHALL BE RELOCATED AS CLOSE AS POSSIBLE TO THE FENCE / EASEMENT , RIGHT-OF-WAY LINE IN CLOSEST PROXIMITY TO THE WATER DISTRIBUTION MAIN.
- FIELD LOCATE WITH MANATEE COUNTY PERSONNEL, (±15 LF) REGRADE SITE TO ALLOW FOR A POSITIVE DRAINAGE SLOPE AWAY FROM THE LIFT
- STATION AREA TOWARDS THE SURROUNDING DITCHES. MAXIMUM OF 1% SLOPE. . REMOVE EX. PALM TREE ADJACENT TO VALVE VAULT AND SIDEWALK.

. SEWER IS PUBLIC

WATER IS PUBLIC

ASSUME EX. 4" TAPPING VALVE BY EX. 10" FM CAN BE USED AS AN _ISOLATION VALVE.

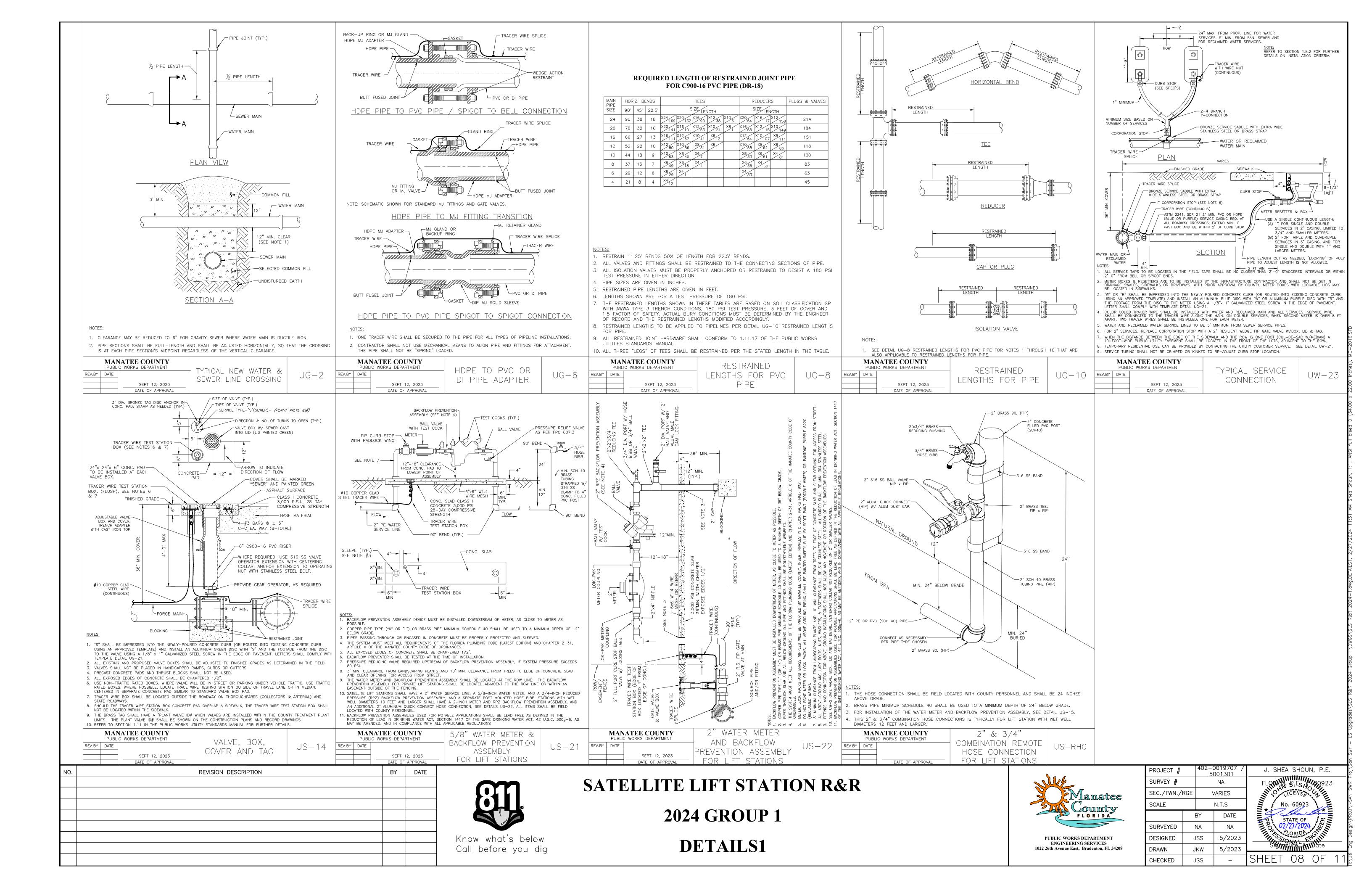
J. SHEA SHOUN, P.E.

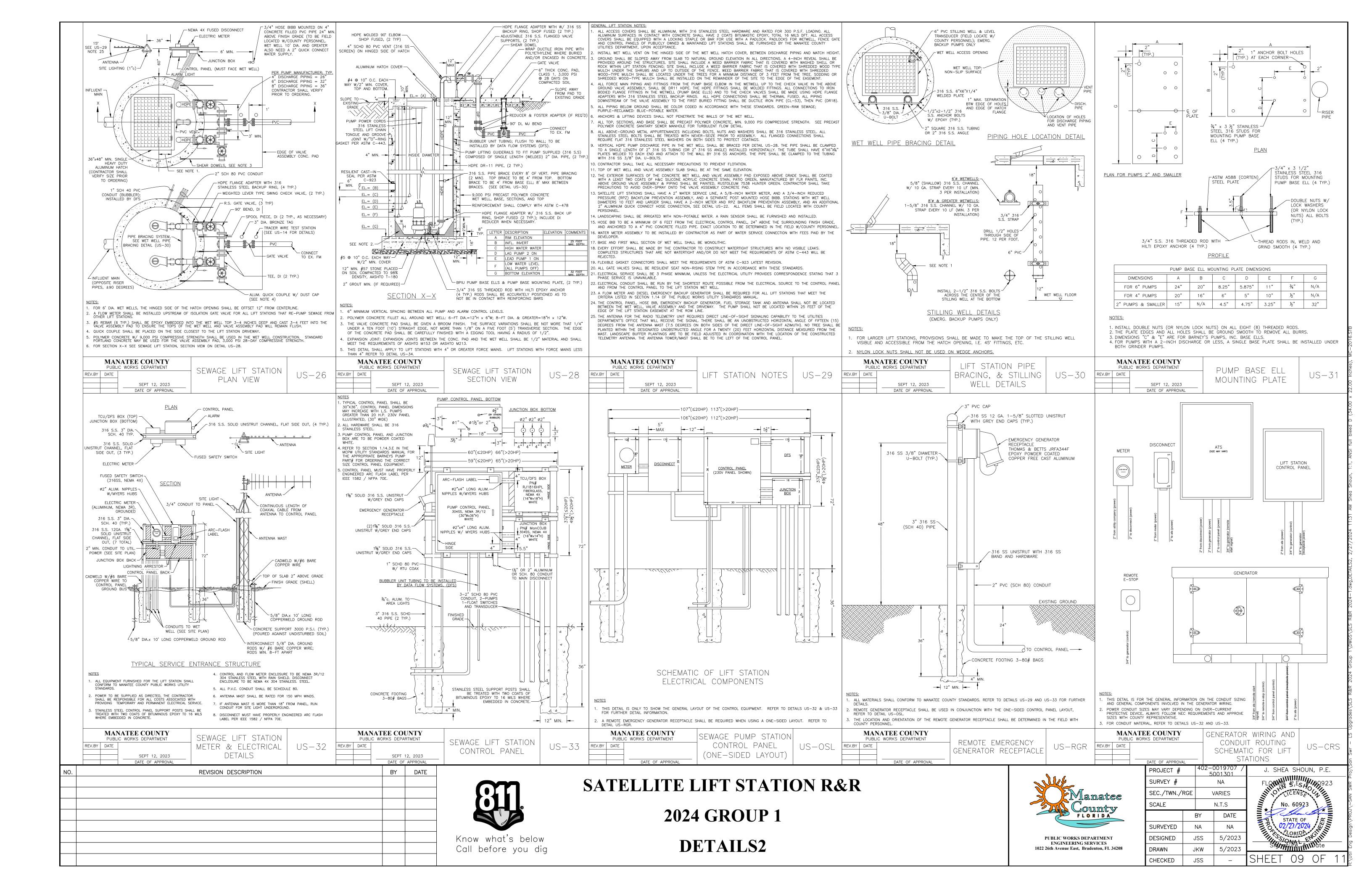
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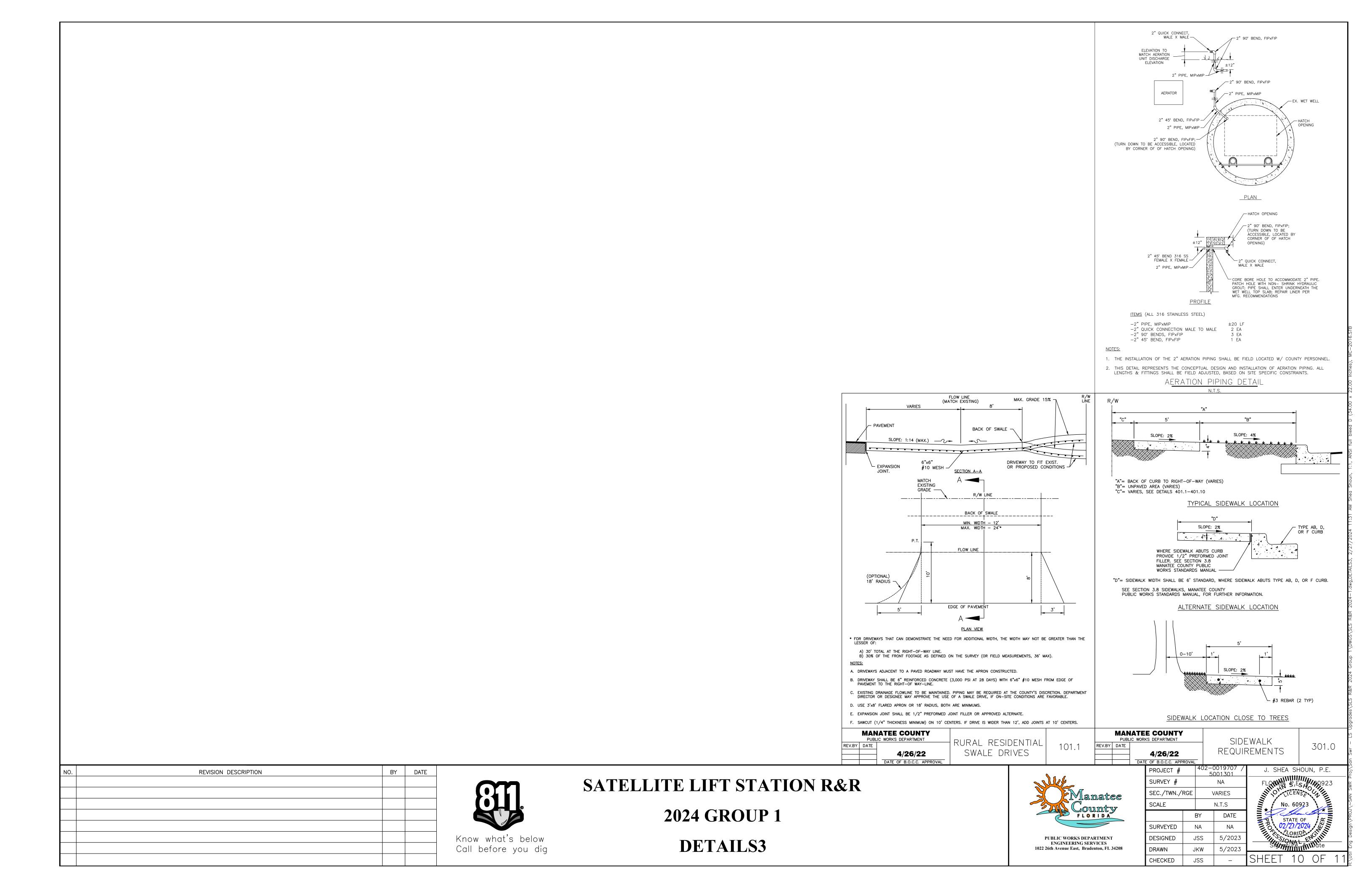
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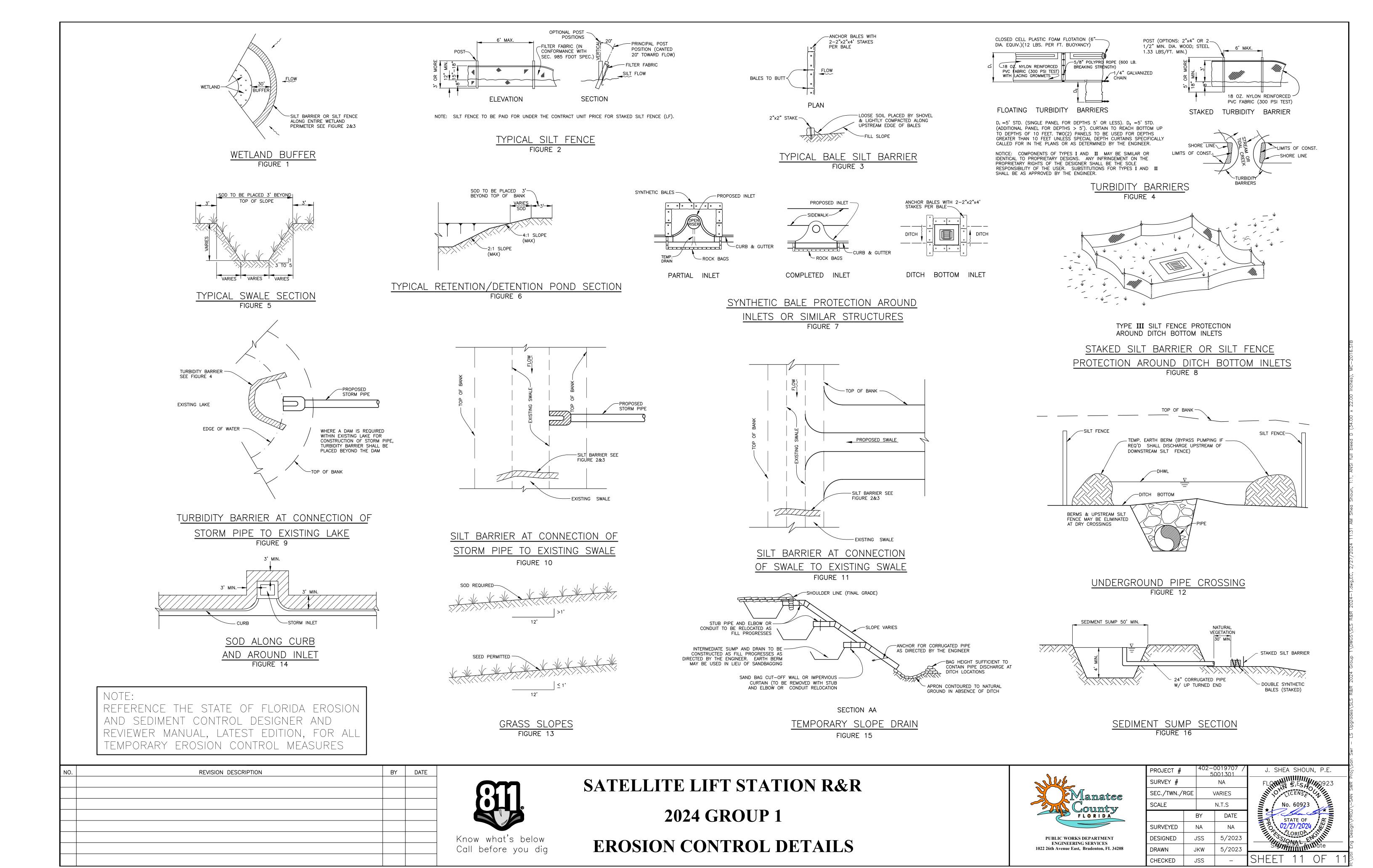
PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

PROJECT #		402-5163885			
SURVEY #			NA		
SEC./TWN./	RGE	06/34/19			
SCALE		N.T.S.			
		BY	DATE		
SURVEYED		NA	NA		
DESIGNED	J	JSS	5/2023		
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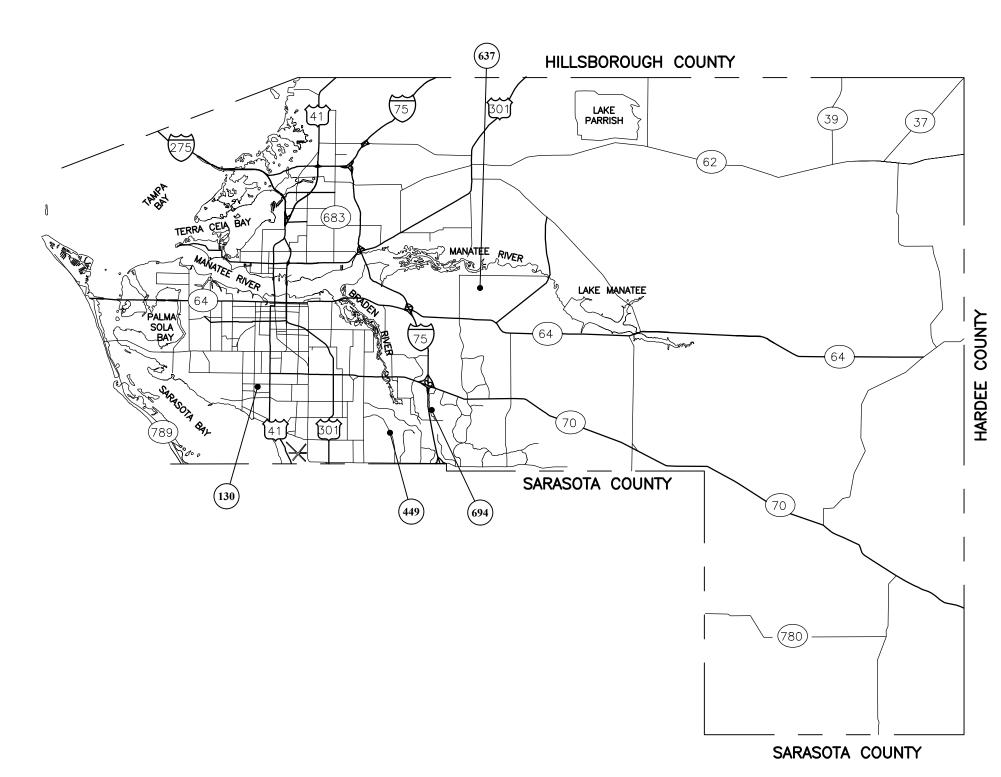




SATELLITE LIFT STATION R&R 2024 GROUP 2 402.0019707 / 5001301

March 2024

L.S. NAME RTU		ADDRESS	PROJECT JL NO.	INFLUENT MH
28-A	130	2314 58TH AVE DR. W., BRADENTON	402.5164483	PUBLIC
PALM-AIRE 9	449	8400 WHITFIELD AVE EXT., BRADENTON	402.5164480	PUBLIC
GREYHAWK LANDINGS 3	637	12407 DAISY PLACE, BRADENTON	402.5164481	PUBLIC
RIVER CLUB COM. PARK	694	8006 CIRCLEWOOD AVE., BRADENTON	402.5164482	PUBLIC



NO.	INDEX OF SHEETS
01	COVER
02	GENERAL NOTES AND LEGEND
03	VICINITY MAPS
04	28-A, RTU 130
05	PALM-AIRE 9, RTU 449
06	GREYHAWK LANDINGS 3, RTU 637
07	RIVER CLUB COMMERICAL PARK, RTU 694
08	DETAILS 1
09	DETAILS 2
10	EROSION CONTROL DETAILS

BID PLANS

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.





TELLITE LIFT STATION R. 2024 GROUP 2

DATE									
ВУ									
REVISION DESCRIPTION									
NO.									
PROJECT #				402.0019707 5001301)7 / <u>1 </u>		
SURVEY #						NΑ	١		
SEC./TWN./R			RG	E		\	/ARI	ES	
SCALE							N.T.S.		
					BY		DATE		TE
SURVEYED				NA		NA		Α	
DES	IGNE)		·	JSS	<u> </u>	5/2023		
DRAWN			JKW			5/2023			

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION THE PROJECT MANAGER IS: ANTHONY BENITEZ, P.E. AND CAN BE REACHED AT 941.708.7450 x7333.
- . SITE VISITS ARE MANDATORY FOR ALL BIDDERS.
- 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.
- 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
- 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
- . 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.
- 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.
- 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.

- . 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.

- 13. 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.
- 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.
- 5. 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.
- I 6. 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.
- 17. 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.
- 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, 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 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 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.
- 21. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

- 22. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 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 CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION 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.
- 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.
- 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.
- 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.
- 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.

- 29. ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT ALL TIMES, I.E. VALVES, MANHOLE
- 30. 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.
- 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 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 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 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 CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.

BY I

DATE

REVISION DESCRIPTION

- 35. ALL WATER SERVICES TO BE INSTALLED OR MODIFIED ON PRIVATE PROPERTY SHALL REQUIRE A PLUMBING PERMIT;
- A. THE CONTRACTOR'S PLUMBER SHALL INSTALL A REDUCED PRESSURE (RP) TYPE BACKFLOW PREVENTION ASSEMBLIES (BPA'S) EQUIPPED WITH A PRESSURE RELIEF VALVE AT THE POTABLE WATER METER WHENEVER ANY OF THE FOLLOWING CONDITIONS EXIST AT A PROPERTY:
- SWIMMING POOL.
- •IN-GROUND IRRIGATION SYSTEM OR UNDERGROUND SPRINKLERS • SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL)
- •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,
- COMMERCIAL, INDUSTRIAL, MULTISTORY OR MULTIFAMILY RESIDENTIAL FACILITY,
- CROSS CONNECTION IS FOUND,
- FOUNTAIN WITH A DEDICATED FILL PIPE, •FIRE SPRINKLER SYSTEM.
- 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 VALVE, WHERE NORMAL SUPPLY PRESSURE EXCEEDS 80 PSI. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION CONTROL STAFF AS
- C. IF IN-GROUND IRRIGATION SYSTEM IS CONNECTED TO THE POTABLE WATER LINE, AN ADDITIONAL REDUCED PRESSURE (RP) BPA SHALL BE INSTALLED AT THE
- 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.
- 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.

- 34. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.

35. ALL DISTURBED GRASSED AREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS

- 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.
- 37. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513 OF THE INFRASTRUCTURE ENGINEERING STANDARD SPECIFICATION.
- 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 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.
- 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
- 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.

- 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 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 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.
- 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.
- 47. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH
- 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.
- 49. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- 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.
- 52. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S
- 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
- 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.
- 55. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
- 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 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, WBRD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.
- 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.
- 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.
- 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.
- 61. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 62. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 1.15 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 1.15 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 1.15 CAN BE PROVIDED UPON REQUEST.
- 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 THE RECORD DRAWINGS TO THE COUNTY PROJECT MANAGER AND/OR INSPECTOR ON DEMAND AS THE WORK PROGRESSES.

EXISTING UTILITY LOCATIONS

- 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)

MAINTENANCE OF TRAFFIC

- 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 ARE CONCEPTUAL
- 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 STANDARD INDEX 600.
- 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.

EXISTING									
		BENCH MARK	₩.	BUSH					
СМ		CONCRETE MONUMENT		TREE					
	0	IRON PIPE	1	OAK TREE					
	•	IRON ROD	S	PALM TREE					
	Δ	HUB		PINE TREE					
	0	NAIL & DISK	*						
×5.23		ELEVATION							
1234	ð	PARCEL ID NO.							
1234		PARCEL ID NO.	\sim	EDGE OF VEGETATION					
977)	LOT NO.		CHAIN LINK FENCE					
	\leftarrow	GUY WIRE		WOOD FENCE					
PP	Ø	POWER POLE		BARBED WIRE FENCE					
	*	LIGHT POLE	—— ғм ——	FORCE MAIN					
	Ö,	MAIL BOX	PW	POTABLE WATER					
	þ	SIGN	RCW	RECLAIMED WATER					
REF	9	REFLECTOR	ss	SANITARY SEWER					
	0	SPRINKLER		STORM DRAIN					
	©	GAS MARKER		GAS LINE					
	-	BACKFLOW PREVENTER		OVERHEAD CHARTER					
		BLOW OFF VALVE		UNDERGROUND CHARTER					
	\bar{P}	FIRE HYDRANT		OVERHEAD ELECTRIC					
WV	\bowtie	WATER VALVE		UNDERGROUND ELECTRIC					
ARV	\triangle	AIR RELEASE VALVE		OVERHEAD FRONTIER					
WM		WATER METER		UNDERGROUND FRONTIER					
	(S)	SANITARY SEWER MANHOLE		UNDERGROUND PRECO					
SB#1	-	SANITARY SEWER CLEAN OUT		UNDERGROUND FPL					
	•	SOIL BORING LOCATION		OVERHEAD UTILITY					
TEL (TELEPHONE SERVICE BOX		RAIL ROAD TRACKS					
(ie	<u>~</u>	UTILITY BOX UTILITY RISER		EDGE OF CONCRETE EDGE OF ROAD					
	<i>)</i>	FLOW DIRECTION		TOE OF SLOPE					
GI	┖ ■	GRATE INLET		TOP OF BANK					
э. Г	-	MITERED END SECTION		PROPERTY LINE					
	7	STORM SEWER MANHOLE		RIGHT OF WAY					
6	<u>J</u>	STORM SETTER WATER		1110111 01 11/11					

EMERGENCY CONTACTS

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FLORIDA GAS TRANSMISSION 7804 ANDERSON RD. TAMPA FL 33634 CHAD HARRELL PHONE: (813) 466-3327 PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310 (941) 748-0747 EXT. 1355

E-mail: chad.harrell@sug.com FLORIDA 1-(800) 432-4770 WACHULA, FL 33873 KENDELL COKER (863) 767-4660

SOUTHWEST FLORIDA WATER

SERVICE OFFICE

(941) 377-3722

6750 FRUITVILLE ROAD

SARASOTA, FL. 34240

FAX: (941) 373-7660

kendell.coker@preco.coop

DRAWN

MANAGEMENT DISTRICT SARASOTA PROTECTION

PROJECT # SURVEY # NA SEC./TWN./RGE **VARIES** SCALE N.T.S. BY SURVEYED NA DESIGNED JSS

J. SHEA SHOUN, P.E. No. 60923 DATE STATE OF NA 5/2023 JKW 5/2023 CHECKED JSS

ABBREVIATIONS

RIGHT OF WAY

CONCRETE

ASPHALT

DRIVEWAY

→ FLOW ARROW

SIDEWALK

EDGE OF PAVEMENT

BACK OF CURB

DEPARTMENT OF ENVIRONMENTAL

TEMPLE TERRACE, FL 33637

13051 N. TELECOM PKWY

PHONE: (813) 470-5875

CHARTER COMMUNICATION

5413 E. STATE ROAD 64

Tom.Wright@charter.com

BRADENTON, FL. 34208-5535

941) 748-3816 EXT. 21348

SUNSHINE STATE ONE CALL OF

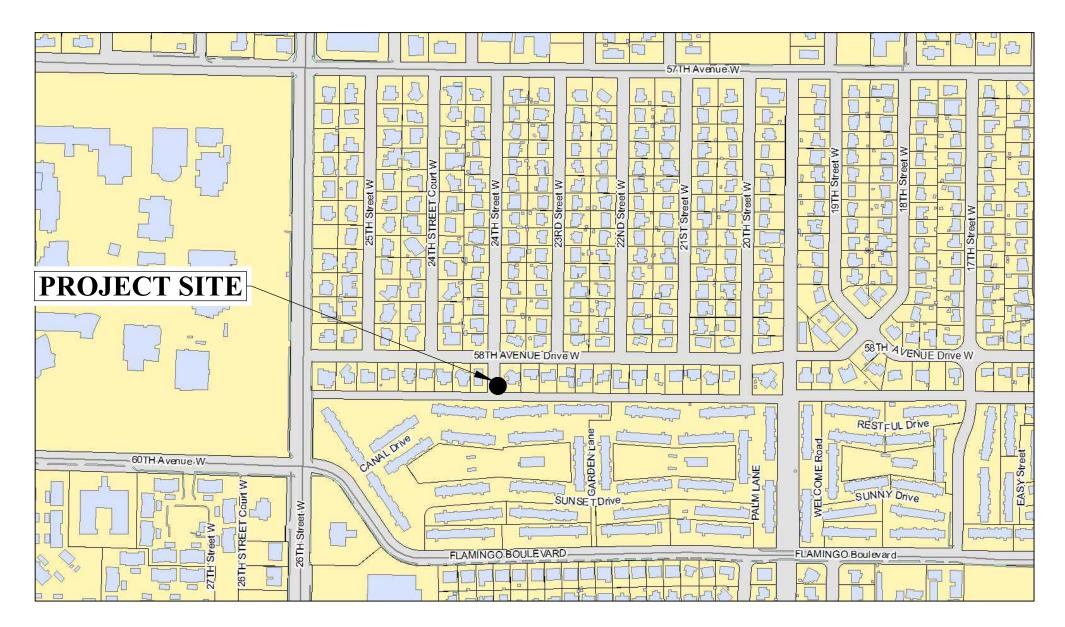
FAX: (813) 470-5993

ED WATSON

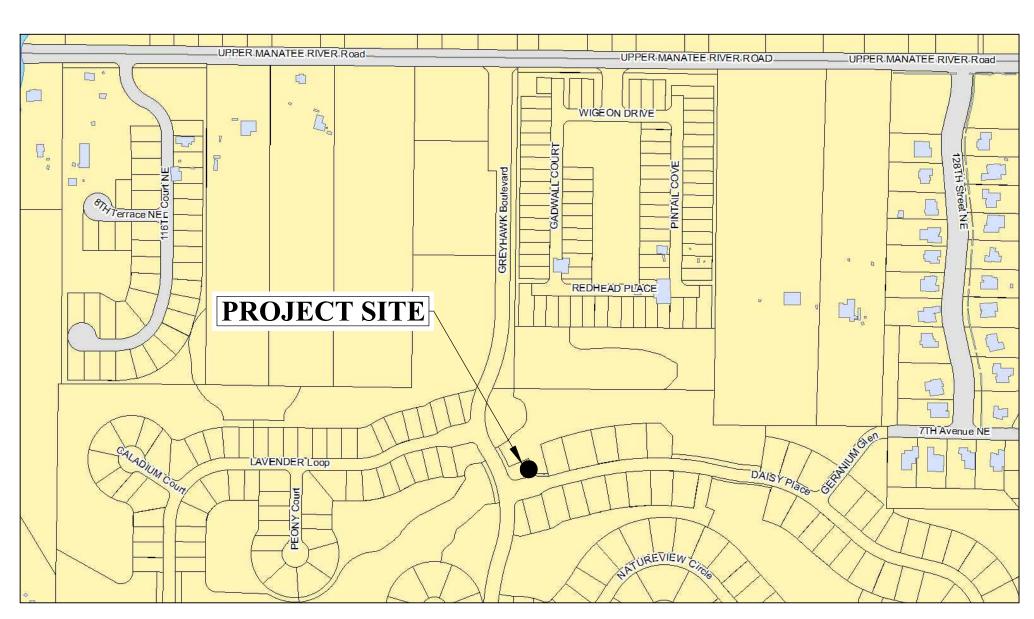
TOM WRIGHT

DRWY

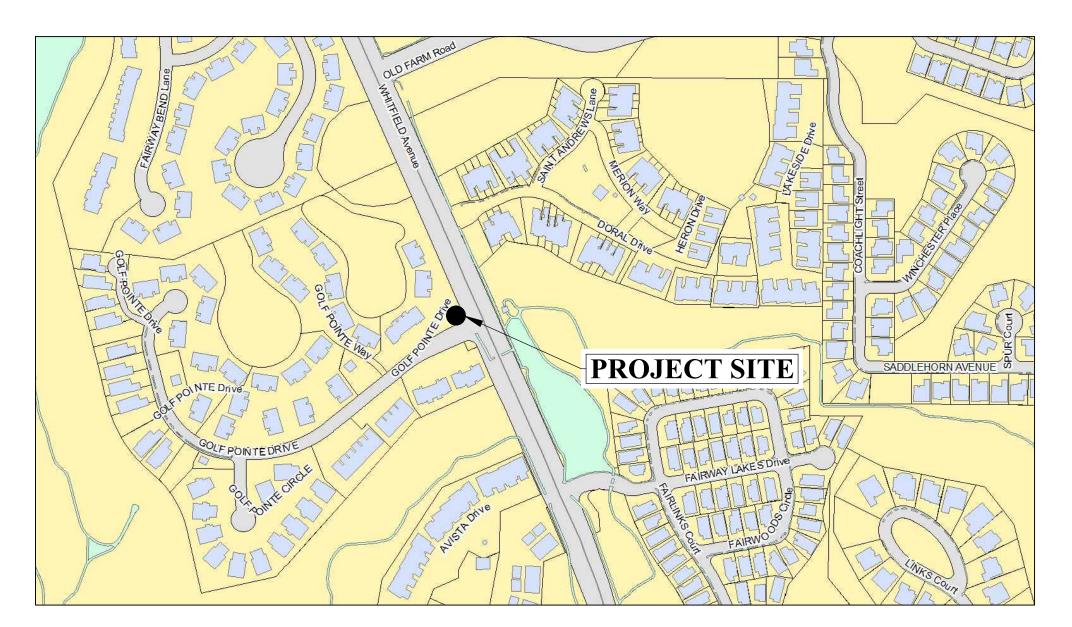
SATELLITE LIFT STATION R&R **2024 GROUP 2** GENERAL NOTES AND LEGEND



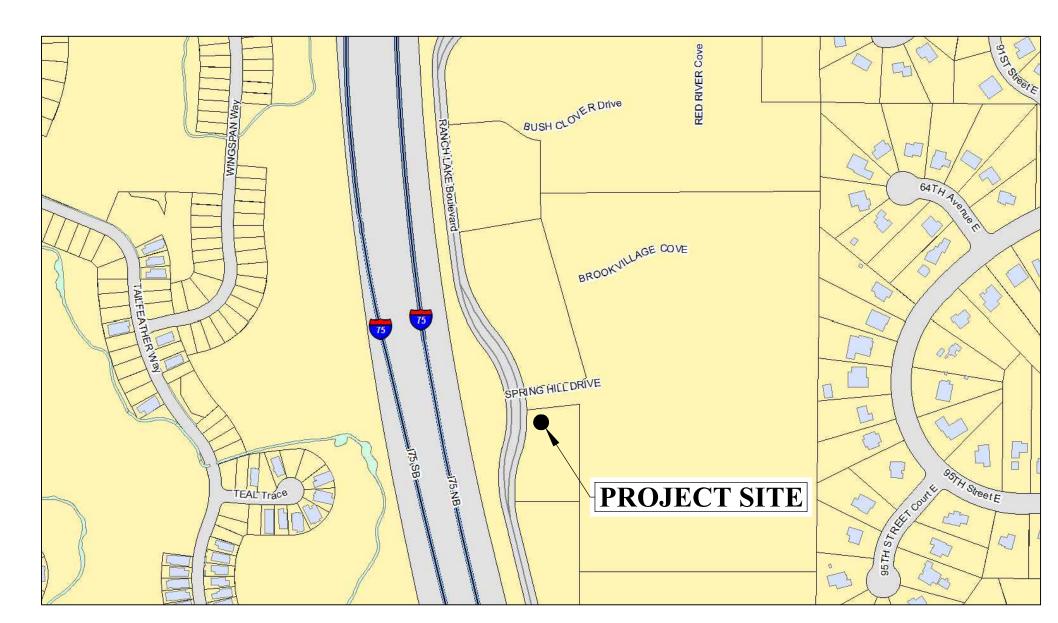
<u>28-A, RTU 130</u> 2314 58TH AVE. W., BRADENTON <u>LAT N: 27.436778°</u> LONG W: -82.585186°



GREYHAWK LANDINGS 3, RTU 637, 12407 DAISY PL., BRADENTON LAT N: 27.509104° LONG W: -82.419462°



PALM AIRE 9, RTU 449, 8400 WHITFIELD AVE. EXT., BRADENTON LAT N: 27.411695° <u>LONG W: -82.489606°</u>



RIVER CLUB COMMERCIAL PARK, RTU 694, 8006 CIRCLEWOOD AVE., BRADENTON
LAT N: 27.425160°

NOTE(S):
1. LIFT 941-LONG W: -82.457351°

- 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 VIEWED BY UTILIZING THE PUBLIC ACCESS TO THE COUNTY'S GIS SYSTEM. USE AN INTERNET BROWSER AND ENTER THE FOLLOWING URL, "https://www.mymanatee.org/gisapps/mobile/index.html?type=utilities-public".

NO.	REVISION DESCRIPTION	BY	DATE	

SATELLITE LIFT STATION R&R **2024 GROUP 2** VICINITY MAPS



PROJECT #	4	·02.0	019707 / 001301	J. SHEA SHOUN, P.E.
SURVEY #		NA		FLORIDA 5.ES # 60923
SEC./TWN./	RGE	١	/ARIES	O'ATCENES (). //
SCALE			No. 60923	
	BY		DATE	STATE OF
SURVEYED	NA		NA	02/27/2024 / W
DESIGNED	JSS	5	5/2023	
DRAWN	JKV	٧	5/2023	Signer Philippide
CHECKED	JSS	3	_	SHEET 03 OF 10

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. r 90° BEND, DI (2 TYP., REMOVE) -WEIGHTED CHECK VALVES ALL DISCHARGE PIPING (2 TYP., REMOVE) (REMOVE) HATCH OPENING (REMOVE) HDPE TELEMETRY TOWER CROSS (REMOVE) (REMOVE) VALVE VAULT -(ABANDON) PVC → HDPE FORCE MAIN-(REMOVE) QUICK CONNECT, 90° BEND, DI (REMOVE) EX. MANHOLE r INSTALL NEW TOP EL=17.25 COMPOSITE RING BOTTOM EL=4.95 AND COVER PER GATE VALVES (3 TYP., REMOVE)-(COMPLETELY REHAB MANATEE COUNTY & SPRAY LINE) UTILITY DETAILS. HATCH OPENINGS (2 TYP., REMOVE) EX. WET WELL-(I.E.T. LINER) EX. SEWER MAIN-(REHAB) <u>PLAN</u> WELL TOP & ALUM. HATCHES (REMOVE) -INSTALL RING AND COMPOSITE FRAME & COVER PER MANATEE COUNTY UTILITY DETAILS. ADD WET WELL CHIMNEY RISER RINGS TO & SLAB (REMOVE) VALVE VAULT TOP-RAISE RIM ELEV. & ALUMINUM HATCH 4 INCHES. (REMOVE) SAW CUT & REMOVE FIRST 2' OF VAULT HDPE 2 INSTALL -SPRAY LINER, (±204 SF) EX. DRAIN (ABANDON, -EX. VAULT TO BE ABANDONED; -PUNCH HOLES AT THE CORNERS GROUT FILL) THRU BOTTOM OF VAULTS PRIOR TO BACKFILLING WITH COMPACTED, CLEAN FILL (±9 CY) $^{ m V}$ REMOVE EX. SUPPORTS PIPE BRACING-(REMOVE ALL) LIFT STATION SCHEDULE (EXISTING) ►EX. MANHOLE

DESIGN CAPACITY GPM/TDH 125/27 HYDROMATIC, PUMP TYPE/ HP. 6.25 DISCHARGE PIPING DIAMETER 6" WET WELL DIAMETER 8' BOTTOM SLAB ELEVATION -0.1517.20 TOP ELEVATION VALVE VAULT HATCH ELEVATION 17.20 INFLUENT INVERT ELEVATION 4.25 INFLUENT PIPE SIZE 8" CIP FORCE MAIN DIAMETER 6" CIP WET WELL VENT PIPE ELECT. POWER, VOLTS/PH 230/3 ELECT. SERVICE SIZE, AMPS 50 EX. FORCEMAIN TIE-IN

RADIO TELEMETRY UNIT (RTU)

130

EX. WET WELL LINER; -

PUMP BASE ELBOWS &-

ANCHORING HARDWARE

(2 TYP., REMOVE)

لُلْلُلْ

ITEMS ROTATED FOR CLARITY

ELEVATION

EX. 2 PUMP LIFT STATION

BY

DATE

CLEAN & INSPECT (REPAIR

AS NECESSARY); TBD W/ COUNTY PERSONNEL

INFORMATION TAKEN FROM LIFT STATION DATA FILE LSINFO.XLS 2020) & RECORD DRAWINGS. DATUM OF ELEVATIONS IS UNKNOWN. REVISION DESCRIPTION

GENERAL NOTES:

(FULLY REHAB)

MODIFY TOP OF VALVE VAULT

INSTALL WET WELL VENT PIPE

INSTALL NEW WATER SERVICE ASSEMBLY

RELOCATE EX. WATER SERVICE ASSEMBLY

ROTATED FOR

-INSTALL A CIPP LINER INSIDE ±10

STAINLESS STEEL GUIDE RAIL SYSTEM

LF OF 8" C.I. GRAVITY MAIN

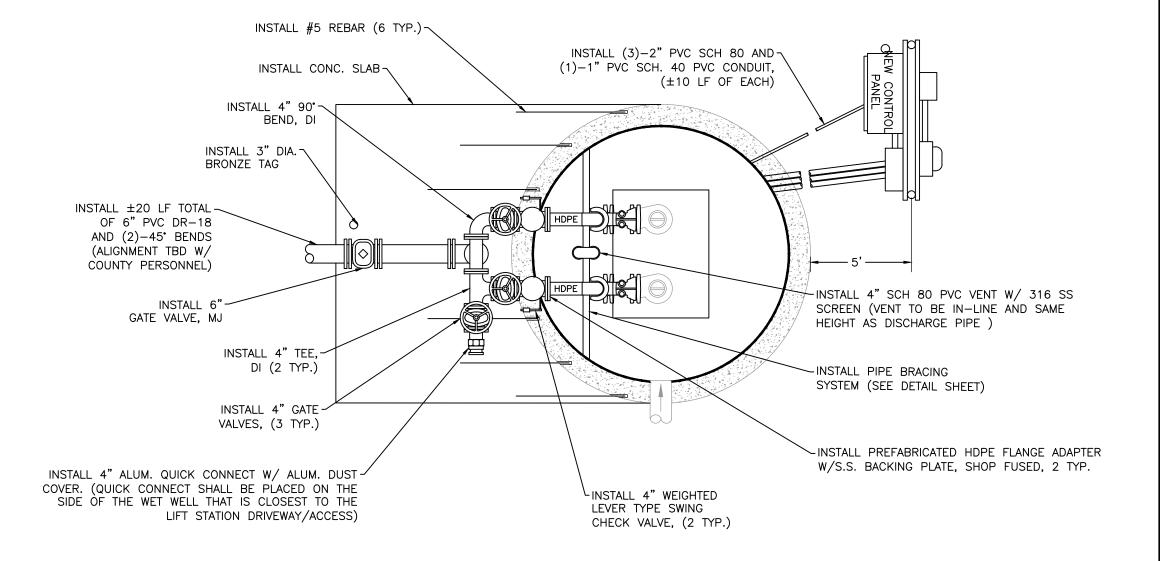
(REMOVE ALL)

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.

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". 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

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.

ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM TO BE PAINTED.



<u>PLAN</u>

EX. 2 PUMP LIFT STATION

rinstall molded 90° ELBOW, SHOP FUSED (2 TYP.) INSTALL POLYETHYLENE WRAP WHERE DUCTILE IRON PIPE IS ENCASED IN -INSTALL ADJUSTABLE S.S. FLANGED VALVE CONCRETE. SUPPORTS, (2 TYP.) -36"x48" SINGLE HEAVY DUTY ALUMINUM HATCH. BILCO OR INSTALL 6" THICK CONC. PAD, CLASS 1, 3,000 \ APPROVED EQUAL PSI @ 28 DAYS ON COMPACTED SOIL (TOP ELEVATION TO MATCH WET WELL RIM ELEVATION) TOP SLAB TO HAVE A 4" REVEAL. -INSTALL NEW 10" THICK (MIN.) ROUND INSTALL 4"x6" WET WELL TOP WITH 4" REVEAL. RED., W/ 6"
FOSTER ADAPTER MAINTAIN EXISTING ELEVATION. INSTALL NEW ±35" TALL PRECAST TYPE-II REINFORCED CONCRETE WET WELL BARRIER SECTION TO REPLACE EXISTING CHIMNEY. CONTRACTOR TO VERIFY HEIGHT. INSTALL 316 SS PIPE BRACING SYSTEM, (2 MIN.). TOP BRACE TO BE 4' FROM TOP.--INSTALL APPROVED SPRAY LINER THAT IS LOWER BRACE TO BE 4' ABOVE BASE ELLS. MAX SPACING OF 8' BETWEEN BRACES. COMPATIBLE W/ THE EXISTING I.E.T. LINER (SEE DETAIL SHEET) (±225 SF) INSTALL HDPE DR-11 PIPE, (2 TYP.)-INSTALL NEW 316 SS PUMP GUIDE RAIL SYSTEM COMPOSED OF SINGLE LENGTH (WELDED) 2" PIPES (2 TYP) LIFT STATION SCHEDULE (PROPOSED) INFLUENT LINE INSTALL FIBERGLASS W.W. LINER NO APPLY SPRAY LINER W.W. LINER YES INSTALL PREFABRICATED HDPE FLANGE INSTALL STILLING WELL NO ADAPTER W/ 316 S.S. BACKING PLATE, SHOP FUSED (2 TYP.) INSTALL FORCE MAIN ISOLATION VALVE YES INSTALL NEW 4" BPIU PUMP BASE NEW HDPE DISCHARGE PIPING YES, 4" ELBOWS, (2 TYP.) NEW BASE ELL 4" BPIU-14 ITEMS ROTATED FOR CLARITY INSTALL NEW 4" BASE ELBOW MOUNTING MODIFY TOP OF WET WELL: YES PLATES AND ANCHOR BOLTS; MAY REQUIRE **ELEVATION** GRINDING OR LEVELING OF BASE GROUT

PROPOSED

INSTALL ±10 LF NEW ELECTRICAL SERVICE WITH CONDUIT. THE COUNTY WILL SUPPLY ANY REQUIRED HANDHOLES.

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 REMAINING EXISTING ELECTRICAL EQUIPMENT CONNECTED TO THE EXISTING CONTROL PANEL SHALL BE RE-ESTABLISHED TO THE NEW PANEL THE NEW ELECTRICAL STRUCTURE SHALL BE FIELD LOCATED WITH MANATEE COUNTY PERSONNEL. CONTRACTOR RESPONSIBLE FOR VERIFYING SIZE OF RACK TO HOLD ALL PROPOSED ELECTRICAL ENCLOSURES/COMPONENTS.

A TCU BUBBLER UNIT (RPT-001) SYSTEM PROVIDED AND INSTALLED BY DATA FLOW SYSTEMS (DFS) FOR WET WELL LEVEL CONTROL AND SHALL BE INCLUDED WITH

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.

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 RODS. COUNTY SHALL INSTALL NEW TELEMETRY ANTENNA. 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 TO ENSURE THE TOPS OF THE WET WELL AND VALVE ASSEMBLY PAD WILL REMAIN

REPAIR CONCRETE WALLS, AS NEEDED, IN WET WELL, 2-INCH MIN. THICK OVER EXISTING REBAR, (±305 SF). ALL REPAIRS TO BE VERIFIED W/ COUNTY

PERSONNEL PRIOR TO WORK. 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 NEW 35-INCH TALL PRECAST TYPE-II REINFORCED CONCRETE WET WELL BARREL SECTION; OR FORM POUR CONCRETE AND REINFORCE WITH REBAR, EPOXY DOWELS INTO EXISTING STRUCTURE. CONTRACTOR TO VERIFY HEIGHT PRIOR TO ORDERING TO ENSURE 4 INCH REVEAL.

RELOCATE THE EXISTING METER, BPA, & HOSE BIBB ASSEMBLY. THE METER AND BPA SHALL BE RELOCATED AS CLOSE AS POSSIBLE TO THE FENCE IN CLOSEST PROXIMITY TO THE WATER DISTRIBUTION MAIN. FIELD LOCATE WITH MANATEE COUNTY PERSONNEL, (±10 LF)

O. INSTALL A NEW 2—INCH WATER SERVICE LINE AND 8"x2" TAPPING SADDLE 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 RIGHT-OF-WAY LINE IN CLOSEST PROXIMITY TO THE WATER DISTRIBUTION MAIN. ALL ITEMS SHALL BE FIELD LOCATE WITH MANATEE COUNTY PERSONNEL, (±100 LF).

. ABANDON EXISTING WATER SERVICE SADDLE AND CORPORATION AT MAIN; INSTALL A BRASS PLUG IN CORPORATION STOP

2. INSTALL WASHED SHELL & WEED BARRIER (±24 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

3. CAREFULLY REMOVE EXISTING FENCE COMPLETELY, INCLUDING ALL POSTS AND CONCRETE FOOTERS, (±40 LF). SAVE FENCE, SET TO SIDE FOR COUNTY TO PICK

4. THE COUNTY SHALL RETAIN OWNERSHIP OF THE EXISTING VALVE ASSEMBLY AND ALL OF THE EXISTING HDPE DISCHARGE PIPE. CONTRACTOR SHALL REMOVE THESE ITEMS INTACT, SET THESE ITEMS ASIDE, AND COORDINATE WITH THE COUNTY FOR

WATER DISTRIBUTION IS PUBLIC

SEWER COLLECTION IS PUBLIC.

LIFT STATION WITHIN COUNTY ROW.

SATELLITE LIFT STATION R&R **2024 GROUP 2** 28-A, RTU 130

N/A

YES

YES

NO



1022 26th Avenue East, Bradenton, FL 34208

(SEE BASE ELL MOUNTING PLATE DETAIL ON

DETAIL SHEET) (2 TYP)

PROJECT #		402	.5164483	J. SHEA SHOUN, P.E.
SURVEY #			NA	FLORIDA 5.Es.# 60923
SEC./TWN./I	RGE	15	/35/17	FLORM S.Es. 60923
SCALE			N.T.S.	No. 60923
	BY		DATE	STATE OF BY
SURVEYED	NA		NA	02/27/2024
DESIGNED		JSS	5/2023	SONAL ENGINE
DRAWN J		KW	5/2023	Signatura and ate
CHECKED	·	JSS	_	SHEET 04 OF

EXISTING

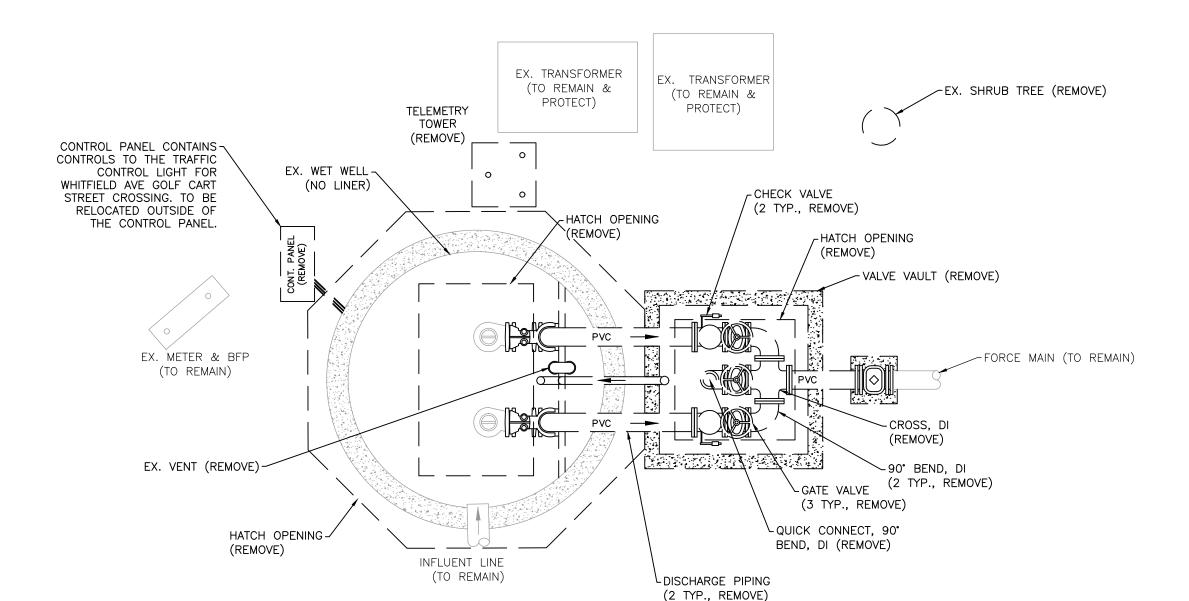
THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY.

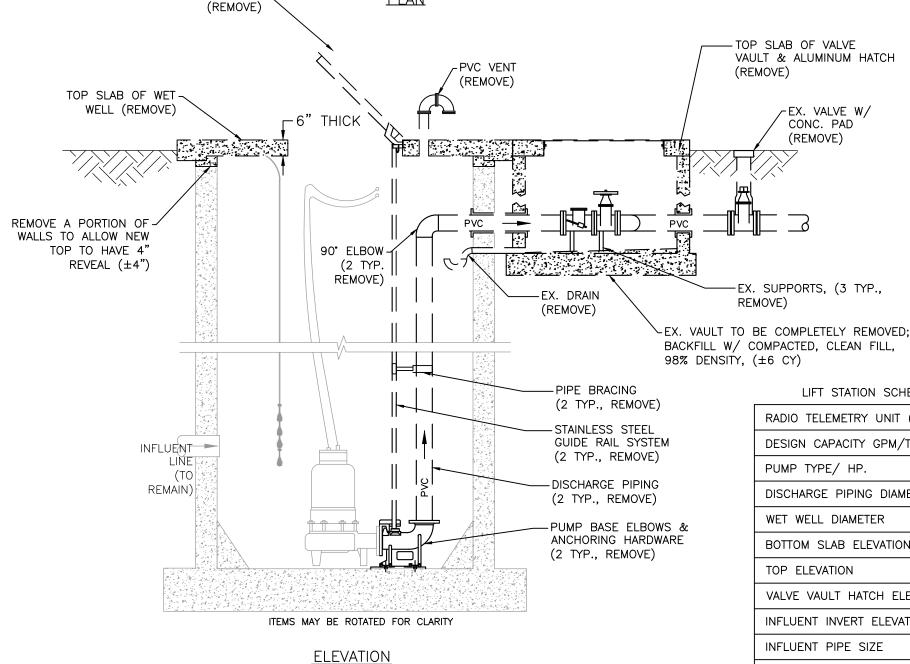
CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.

- 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.

ALUM. HATCH.-

. 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.





EX. 2 PUMP LIFT STATION

<u>PLAN</u>

LIFT STATION SCHEDULE (EXISTING) RADIO TELEMETRY UNIT (RTU) 449 258/24 DESIGN CAPACITY GPM/TDH PUMP TYPE/ HP. HOMA/3.5 DISCHARGE PIPING DIAMETER 4" WET WELL DIAMETER BOTTOM SLAB ELEVATION UNK. TOP ELEVATION VALVE VAULT HATCH ELEVATION UNK. INFLUENT INVERT ELEVATION UNK. INFLUENT PIPE SIZE 10" CIP FORCE MAIN DIAMETER 6", PVC WET WELL VENT PIPE DI ELECT. POWER, VOLTS/PH 240/3 ELECT. SERVICE SIZE, AMPS 100 EX. FORCEMAIN TIE-IN * INFORMATION TAKEN FROM LIFT STATION DATA FILE (LSINFO.XLS 2020) & RECORD DRAWINGS. DATUM OF

ÈLEVATIONS IS UNKNOWN.

TOP SLAB OF VALVE

(REMOVE)

VAULT & ALUMINUM HATCH

∠EX. VALVE W/

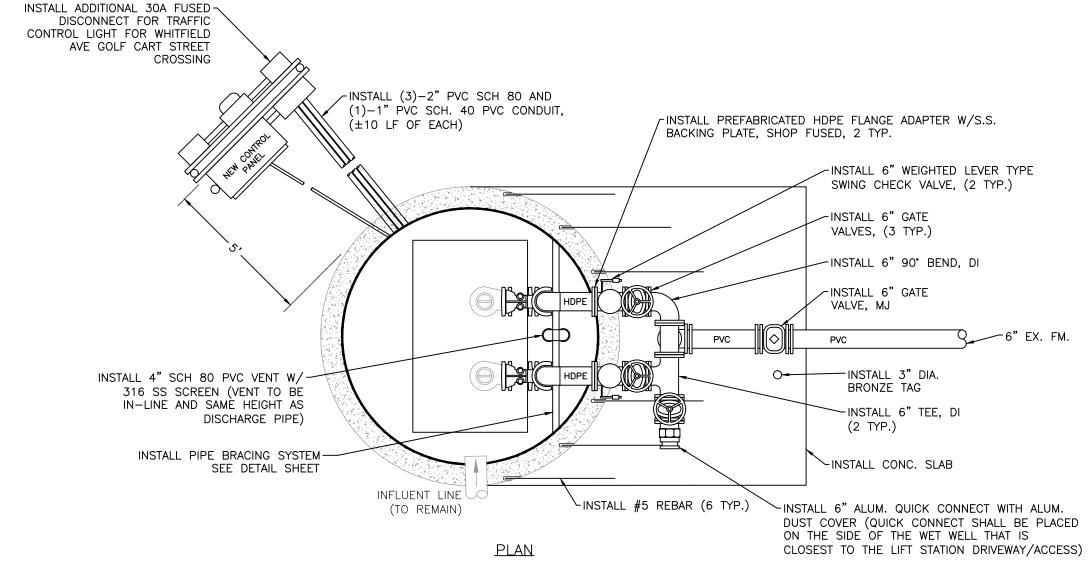
CONC. PAD (REMOVE)

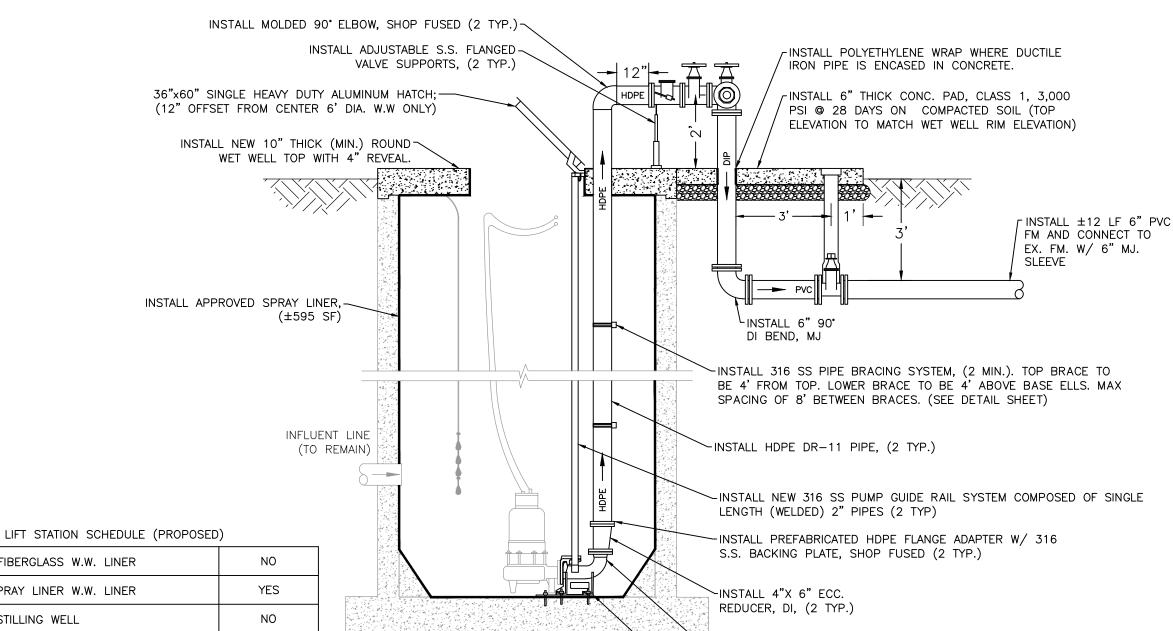
-EX. SUPPORTS, (3 TYP.,

REMOVE)

GENERAL NOTES:

- 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 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".
- 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
- 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.
- . ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM TO BE PAINTED.





INSTALL FIBERGLASS W.W. LINER APPLY SPRAY LINER W.W. LINER INSTALL STILLING WELL INSTALL FORCE MAIN ISOLATION VALVE YES NEW HDPE DISCHARGE PIPING YES, 6" YES NEW BASE ELL LOWER, 4" MODIFY TOP OF WET WELL MODIFY TOP OF VALVE VAULT: NO YES INSTALL WET WELL VENT PIPE INSTALL NEW WATER SERVICE ASSEMBLY NO NO RELOCATE EX. WATER SERVICE ASSEMBLY

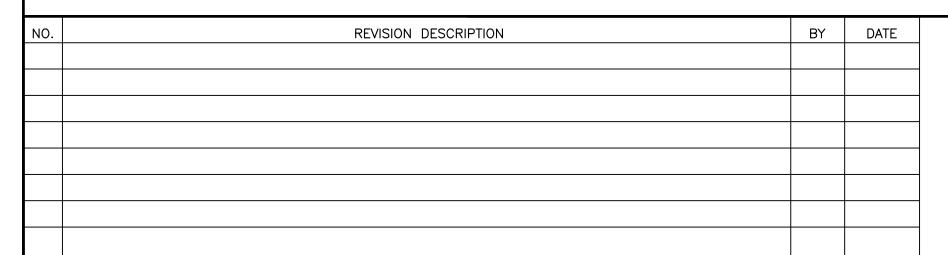
<u>ELEVATION</u> EX. 2 PUMP LIFT STATION

ITEMS MAY BE ROTATED FOR CLARITY

NOTES:

1. WATER DISTRIBUTION IS PUBLIC ±45 LF

SEWER COLLECTION IS PUBLIC.



SATELLITE LIFT STATION R&R **2024 GROUP 2** PALM-AIRE 9, RTU 449



-INSTALL NEW 4" BPIU PUMP BASE ELBOWS, (2 TYP.)

MOUNTING PLATE DETAIL ON DETAIL SHEET) (2 TYP)

~INSTALL NEW 4" BASE ELBOW MOUNTING PLATES AND ANCHOR BOLTS;

MAY REQUIRE GRINDING OR LEVELING OF BASE GROUT (SEE BASE ELL

PROJECT #		402	.5164480	J. SHEA SHOUN, P.E.
SURVEY #			NA	FLORIDA 5.ES # 60923
SEC./TWN./	RGE	27	/35/18	FLORING S.ES. FIG. 1923
SCALE		N.T.S.		No. 60923
	BY		DATE	STATE OF
SURVEYED		NA	NA	02/27/2024 / W
DESIGNED	J	JSS	5/2023	W.S.C. ENGILL
DRAWN	J	KW	5/2023	Signal fill this te
CHECKED	·	JSS	_	SHEET 05 OF 10

PROPOSED

- INSTALL ±25 LF NEW ELECTRICAL SERVICE WITH CONDUIT FROM THE TRANSFORMER TO THE NEW CONTROL PANEL. THE COUNTY WILL SUPPLY ANY REQUIRED
- 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 TO THE NEW PANEL. NEW ELECTRICAL STRUCTURE SHALL BE FIELD LOCATED WITH MANATEE COUNTY
- a. 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.
- b. AN ADDITIONAL 30A FUSED DISCONNECT SHALL BE ADDED TO ACCOMMODATE THE EXISTING TRAFFIC CONTROL LIGHT FOR WHITFIELD AVE GOLF CART STREET
- c. CONTRACTOR SHALL REMOVE EXISTING TRAFFIC CONTROL POWER AND BREAKER FROM INSIDE THE EXISTING CONTROL PANEL. THE POWER AND NEW 30A FUSED DISCONNECT SHALL BE INSTALLED ON THE BACK SIDE OF THE NEW ELECTRICAL RACK TO THE LEFT OF THE METER CAN. THE METER SHALL FEED BOTH DISCONNECTS. ALL ELECTRICAL CONNECTIONS SHALL BE RE-ESTABLISHED TO HAVE A PROPERLY FUNCTIONING TRAFFIC LIGHT CONTROLLED CROSSWALK. RE-ROUTE EXISTING CONDUCTORS AND CONDUIT TO THE NEW 30A FUSED DISCONNECT. ALL ACTIVITIES SHALL BE COORDINATED WITH LIFT STATION PERSONNEL AND WITH TRAFFIC OPERATION TO ENSURE PROPER FUNCTION OF THE CROSSWALK PRIOR TO, DURING, AND AFTER THE INSTALLATION OF ALL NEW EQUIPMENT. CALL CORY MILES, TRAFFIC CONTROL
- 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.

TECH SUPERVISOR AT 941.708.7450 X7262.

- 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. 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 TO ENSURE THE TOPS OF THE WET WELL AND VALVE ASSEMBLY PAD WILL REMAIN REPAIR CONCRETE WALLS, AS NEEDED, IN WET WELL, 2-INCH MIN. THICK OVER
- EXISTING REBAR, (±298 SF). ALL REPAIRS TO BE VERIFIED W/ COUNTY PERSONNEL PRIOR TO WORK.
- WET WELL CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO INSTALLATION OF NEW SPRAY LINER AND/OR LINER REPAIR.
- REGRADE SITE TO ALLOW FOR A POSITIVE DRAINAGE SLOPE AWAY FROM THE LIFT STATION AREA TOWARDS THE SURROUNDING DITCHES. MAXIMUM OF 1% SLOPE.
- REMOVE AND DISPOSE OF EXISTING 5" SHRUB TREE LOCATED NEXT TO THE VALVE VAULT. TRIM/REMOVE ADJACENT TREE LIMBS AND BUSHES. ALL WORK SHALL BE COORDINATED WITH MANATEE COUNTY PERSONNEL PRIOR TO COMMENCEMENT.

EXISTING GENERAL NOTES ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS. ALL HORIZONTAL AND VERTICAL DISTANCES ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY. AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHALL BE THE RESPONSIBILITY 2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. 3. THE CONTRACTOR SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS. 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" 4. REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR 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". 5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR. 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 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 AASHTO M213. \$3,500 EACH, IF NEEDED. 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. 7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING OR DESIGN CONDITIONS. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT OVER-SPRAY OF PAINT ONTO THE CONCRETE SLAB. 8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE. 5. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM TO BE PAINTED INSTALL 6" ALUM. QUICK CONNECT WITH ALUM. DUST COVER-(QUICK CONNECT SHALL BE PLACED ON THE SIDE OF THE WET WELL THAT IS CLOSEST TO THE LIFT STATION DRIVEWAY/ACCESS) INSTALL 6" WEIGHTED LEVER TYPE-WEIGHTED CHECK VALVES SWING CHECK VALVE, (2 TYP.) (2 TYP., REMOVE) FORCE MAIN (TO REMAIN) INSTALL PREFABRICATED HDPE FLANGE ADAPTER W/S.S.-QUICK CONNECT, 90° BEND,-BACKING PLATE, SHOP FUSED, 2 TYP. DI (REMOVE) DISCHARGE -INSTALL #5 REBAR (6 TYP.) \ PIPING (2 TYP. REMOVE) INFLUENT LINE INFLUENT LINE -HATCH OPENING (TO REMAIN) (TO REMAIN) (REMOVE) EX. WET WELL-- VALVE VAULT (DURAPLATE LINER) INSTALL 4" SCH 80 PVC VENT W/ | HDPE | 316 SS SCREEN (VENT TO BE IN-LINE AND SAME HEIGHT AS HORIZ. STANDS (2 TYP., REMOVE) DISCHARGE PIPE) INSTALL PIPE BRACING SYSTEM-SEE DETAIL SHEET | HDPE | HATCH OPENING-~TEE, DI (2 TYP., REMOVE) (REMOVE) INSTALL ±3 LF 1" CONDUIT FOR-~90° BEND, DI (2 TYP., REMOVE) ODOR CONTROL CONNECTION GATE VALVES (3 TYP., REMOVE) ODOR CONT CONT. PANEL EQUIP. INSTALL (3)-2" PVC SCH 80 AND (1)-1" PVC-(REMOVE) NEW CONTRO SCH. 40 PVC CONDUIT, (±10 LF OF EACH) CONTROL TELEMETRY <u>PLAN</u> **TOWER** (REMOVE) ODOR CONTROL EQUIPMENT (REMOVED BY INSTALL MOLDED 90° ELBOW, SHOP FUSED (2 TYP.)-OTHERS) INSTALL ADJUSTABLE S.S. FLANGED -- ALUM. HATCH VALVE SUPPORTS, (2 TYP.) (REMOVE) PVC VENT 36"x60" SINGLE HEAVY DUTY ALUMINUM HATCH; ` HDPE || ★--| || (12" OFFSET FROM CENTER 6' DIA. W.W ONLY) (REMOVE) TOP SLAB OF VALVE VAULT & ALUMINUM HATCH TOP SLAB OF-∽EX. VALVE W/ INSTALL NEW 12" THICK (MIN.) ROUND~ CONC. PAD WET WELL WET WELL TOP WITH 4" REVEAL. (REMOVE) (REMOVE) -EX. VAULT TO BE COMPLETELY REMOVED; BACKFILL EX. LINER ±640 SF ~ INSTALL APPROVED SPRAY -W/ COMPACTED, CLEAN FILL, 98% DENSITY, (±6 CY) (REMOVE) LINER, (±640 SF) LEX. DRAIN (REMOVE) LIFT STATION SCHEDULE (EXISTING) INFLUENT LINE RADIO TELEMETRY UNIT (RTU) └90° ELBOW (2 TYP. (TO REMAIN) REMOVE) DESIGN CAPACITY GPM/TDH 343/98 LIFT STATION SCHEDULE (PROPOSED) -PIPE BRACING (2 TYP., PUMP TYPE/ HP. HYDROMATIC/25 INSTALL FIBERGLASS W.W. LINER DISCHARGE PIPING DIAMETER 6", PVC -STAINLESS STEEL GUIDE INFLUENT LINE APPLY SPRAY LINER W.W. LINER RAIL SYSTEM (2 TYP., YES WET WELL DIAMETER (TO REMAIN) INSTALL STILLING WELL NO BOTTOM SLAB ELEVATION -15.63(2 TYP., REMOVE) TOP ELEVATION 15.30 INSTALL FORCE MAIN ISOLATION VALVE YES VALVE VAULT HATCH ELEVATION 15.30 YES, 6" NEW HDPE DISCHARGE PIPING INFLUENT INVERT ELEVATION -9.53NEW BASE ELL YES PUMP BASE ELBOWS & ANCHORING INFLUENT PIPE SIZE 8", PVC HARDWARE (2 TYP., REMOVE) MODIFY TOP OF WET WELL: NO ITEMS MAY BE ROTATED FOR CLARITY ITEMS MAY BE ROTATED FOR CLARITY 6", PVC FORCE MAIN DIAMETER MODIFY TOP OF VALVE VAULT: NO **ELEVATION** WET WELL VENT PIPE PVC **ELEVATION** YES INSTALL WET WELL VENT PIPE EX. 2 PUMP LIFT STATION ELECT. POWER, VOLTS/PH 480/3 EX. 2 PUMP LIFT STATION NO INSTALL NEW WATER SERVICE ASSEMBLY ELECT. SERVICE SIZE, AMPS 200 EX. FORCEMAIN TIE-IN RELOCATE EX. WATER SERVICE ASSEMBLY NO * INFORMATION TAKEN FROM LIFT STATION DATA FILI (LSINFO.XLS 2020) & RECORD DRAWINGS. DATUM OF ELEVATIONS IS UNKNOWN. REVISION DESCRIPTION DATE SATELLITE LIFT STATION R&R

PROPOSED

-EX. FORCE MAIN

- CONNECT TO EX. FM

WITH 6" MJ. SLEEVE

(TO REMAIN)

✓INSTALL ±15 LF

INSTALL 6" 90° BEND, DI, MJ

6" PVC FM

-INSTALL 6" GATE VALVE, MJ

FINSTALL POLYETHYLENE WRAP WHERE DUCTILE

FINSTALL 6" THICK CONC. PAD, CLASS 1, 3,000

ELEVATION TO MATCH WET WELL RIM ELEVATION)

PSI @ 28 DAYS ON COMPACTED SOIL (TOP

IRON PIPE IS ENCASED IN CONCRETE.

NSTALL 316 SS PIPE BRACING SYSTEM, (2 MIN.). TOP BRACE TO

BE 4' FROM TOP. LOWER BRACE TO BE 4' ABOVE BASE ELLS. MAX

INSTALL NEW 316 SS PUMP GUIDE RAIL SYSTEM COMPOSED OF SINGLE

-INSTALL NEW 4" BASE ELBOW MOUNTING PLATES AND ANCHOR BOLTS;

MAY REQUIRE GRINDING OR LEVELING OF BASE GROUT (SEE BASE ELL

SPACING OF 8' BETWEEN BRACES. (SEE DETAIL SHEET)

INSTALL PREFABRICATED HDPE FLANGE ADAPTER W/ 316

-INSTALL NEW 4" BPIU PUMP BASE ELBOWS, (2 TYP.)

MOUNTING PLATE DETAIL ON DETAIL SHEET) (2 TYP)

rINSTALL 6" TEE, DI

BRONZE TAG

SINSTALL 6" 90° BEND, DI

-INSTALL 6" GATE VALVES, (3 TYP.)

-INSTALL 6" 90°

-INSTALL HDPE DR-11 PIPE, (2 TYP.)

LENGTH (WELDED) 2" PIPES (2 TYP)

REDUCER, DI, (2 TYP.)

S.S. BACKING PLATE, SHOP FUSED (2 TYP.)

DI BEND, MJ

∽INSTALL CONC. SLAB

(2 TYP.)

CONSTRUCTION NOTES: INSTALL ±10 LF NEW ELECTRICAL SERVICE WITH CONDUIT. THE COUNTY WILL SUPPLY ANY REQUIRED HANDHOLES.

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. 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 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.

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.

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 TO ENSURE THE TOPS OF THE WET WELL AND VALVE ASSEMBLY PAD WILL REMAIN

REPAIR CONCRETE WALLS, AS NEEDED, IN WET WELL, 2-INCH MIN. THICK OVER EXISTING REBAR, $(\pm 320 \text{ SF})$. ALL REPAIRS TO BE VERIFIED W/ COUNTY PERSONNEL PRIOR TO WORK.

WET WELL CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO INSTALLATION OF NEW SPRAY LINER AND/OR LINER REPAIR.

INSTALL A NEW 2-INCH WATER SERVICE LINE AND 6"x2" TAPPING SADDLE PER COUNTY STANDARDS VIA DIRECT BURY. THE EXISTING WATER MAIN IS LOCATED IN THE ROW ON THE SAME SIDE AS THE LIFT STATION SITE, (±15 LF). ALL ITEMS

SHALL BE FIELD LOCATE WITH MANATEE COUNTY PERSONNEL ABANDON EXISTING WATER SERVICE SADDLE AND CORPORATION; INSTALL A BRASS PLUG IN CORPORATION STOP.

10. INSTALL WASHED SHELL & WEED BARRIER (±50 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

I. ALL ODOR CONTROL EQUIPMENT SHALL BE REMOVED AND REINSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH OTHERS.

2. INSTALL ONE CAPPED STUB-OUT; 3 LF OF 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.

QUESTIONS:

1. WATER DISTRIBUTION IS PUBLIC.

SEWER COLLECTION IS PUBLIC

2024 GROUP 2 GREYHAWK LANDINGS 3, RTU 637



1022 26th Avenue East, Bradenton, FL 34208

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ROJECT #		402	.5164481	J. SHEA SHOUN, P.E.						
URVEY #			NA	FLORIDA S.ES. #160923						
EC./TWN./	RGE	20	/34/19	FLORIDA 5.Es. #60923 No. 60923						
CALE			N.T.S.	No. 60923						
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URVEYED		NA	NA	STATE OF 02/27/2024 US						
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EXISTING PROPOSED INSTALL ±10 LF NEW ELECTRICAL SERVICE WITH CONDUIT. THE COUNTY WILL SUPPLY ANY REQUIRED HANDHOLES. **GENERAL NOTES:** REMOVE AND INSTALL ALL NEW ELECTRICAL STRUCTURE (RACK), A CONTROL 1. THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS. ALL HORIZONTAL AND VERTICAL DISTANCES PANEL, TCU ENCLOSURE, JUNCTION BOX ENCLOSURE, A METER CAN, AND A VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY. AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHALL BE THE RESPONSIBILITY SAFETY SWITCH (DISCONNECT). ALL EXISTING ELECTRICAL EQUIPMENT CONNECTED 2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. TO THE EXISTING CONTROL PANEL SHALL BE RE-ESTABLISHED. THE NEW ELECTRICAL STRUCTURE SHALL BE FIELD LOCATED WITH MANATEE COUNTY 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" 3. THE CONTRACTOR SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS. 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". 4. REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR A TCU BUBBLER UNIT (RPT-001) SYSTEM PROVIDED AND INSTALLED BY DATA 5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR. 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 FLOW SYSTEMS (DFS) FOR WET WELL LEVEL CONTROL SHALL BE INCLUDED WITH 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 THE CONTROL PANEL 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 \$3,500 EACH, IF NEEDED. AN ELECTRICAL SYSTEM STUDY, ELECTRICAL STUDY ANALYSIS, AND PROPER CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS. THE ABOVE GROUND VALVE ASSEMBLY & PIPING SHALL BE PAINTED, RUSTOLEUM 7538 HUNTER GREEN. 7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING OR DESIGN CONDITIONS. LABELING IN COMPLIANCE WITH NFPA 70E "STANDARD FOR ELECTRICAL SAFETY IN CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT OVER-SPRAY OF PAINT ONTO THE CONCRETE SLAB. 8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE. THE WORKPLACE" AND IEEE 1584 2018 "GUIDE FOR PERFORMING ARC FLASH 5. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM TO BE PAINTED. HAZARDS CALCULATIONS" SHALL BE PROVIDED. SEPARATE THE TELEMETRY TOWER FROM CONCRETE BASE AND SET TO SIDE OF LIFT STATION SITE. CONTRACTOR SHALL REMOVE AND DISPOSE OF CONCRETE EX. MANHOLE -BASE AND ALL GROUNDING ROD. COUNTY SHALL INSTALL NEW TELEMETRY 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 TO ENSURE THE TOPS OF THE WET WELL AND VALVE ASSEMBLY PAD WILL REMAIN -EX. HOSE BIBB (TO REMAIN) REPAIR CONCRETE WALLS, AS NEEDED, IN WET WELL, 2-INCH MIN. THICK OVER rINSTALL (3)-2" PVC SCH 80 AND EX. HOSE BIBB EXISTING REBAR, (±341 SF). ALL REPAIRS TO BE VERIFIED WITH COUNTY (1)-1" PVC SCH. 40 PVC CONDUIT, TOWER (TO REMAIN) PERSONNEL PRIOR TO WORK. (±10 LF OF EACH) (REMOVE) NEW CONTROL PANEL DAMAGED EXISTING PROTECTIVE LINER(S) AND DETERIORATED WET WELL CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO REMOVAL AND CONT. PANEL INSTALLATION OF CONCRETE REPAIR AND/OR INSTALLATION OF NEW PROTECTIVE (REMOVE) INSTALL 6" WEIGHTED LEVER TYPE LINER(S) AND/OR LINER REPAIR. INFLUENT LINE SWING CHECK VALVE, (2 TYP.) INSTALL WASHED SHELL & WEED BARRIER (±50 SY); GRADE THE AREA AROUND INFLUENT LINE (TO REMAIN) -CHECK VALVE WET WELL TO ALLOW FOR POSITIVE DRAINAGE AWAY FROM LIFT STATION AND TO (TO REMAIN) (2 TYP., REMOVE) HAVE A 4" REVEAL ON THE WET WELL/VALVE ASSEMBLY PAD. COORDINATE WITH EX. WET WELL -- QUICK CONNECT, 90° - HATCH OPENING MANATEE COUNTY PERSONNEL. (AGRU LINER) rINSTALL 6" 90° ∕INSTALL 3" DIA. BEND, DI (REMOVE) (REMOVE) BRONZE TAG BEND, DI -VALVE VAULT (ABANDON) INSTALL 4" SCH 80 PVC VENT W/ 316 SS-~INSTALL 8" GATE SCREEN (VENT TO BE IN-LINE AND SAME VALVE, MJ FORCE MAIN HEIGHT AS DISCHARGE PIPE) EX. VENT (REMOVE)-INSTALL PIPE BRACING SYSTEM-SEE DETAIL SHEET -INSTALL 6" TEE, DI (2 TYP.) -INSTALL 6" GATE -6"X8" REDUCER, DI VALVES, (3 TYP.) -CROSS, DI ∼INSTALL CONC. SLAB DISCHARGE PIPING (REMOVE) (2 TYP., REMOVE) -INSTALL 6" ALUM. QUICK CONNECT WITH ALUM. ~90° BEND, DI DUST COVER (QUICK CONNECT SHALL BE PLACED INSTALL #5 REBAR (6 TYP.)~ (2 TYP., REMOVE) ON THE SIDE OF THE WET WELL THAT IS GATE VALVE CLOSEST TO THE LIFT STATION DRIVEWAY/ACCESS) (3 TYP., REMOVE) <u>PLAN</u> INSTALL MOLDED 90° ELBOW, SHOP FUSED (2 TYP.)~ SINSTALL PREFABRICATED HDPE FLANGE ADAPTER W/S.S. <u>PLAN</u> BACKING PLATE, SHOP FUSED, 2 TYP. INSTALL ADJUSTABLE S.S. FLANGED -VALVE SUPPORTS, (2 TYP.) FINSTALL POLYETHYLENE WRAP WHERE DUCTILE - ALUM. HATCH. IRON PIPE IS ENCASED IN CONCRETE. SAW CUT & REMOVE FIRST 2' OF WALLS; 36"x60" SINGLE HEAVY DUTY ALUMINUM HATCH; -(REMOVE) -TOP SLAB OF REMOVE PORTIONS OF REMAINING WALL TO -PVC VENT (12" OFFSET FROM CENTER 6' DIA. W.W ONLY) INSTALL 6" THICK CONC. PAD, CLASS 1, 3,000 VALVE VAULT & (REMOVE) ALLOW FM INSTALLATION. TOP SLAB OF WET-ALUMINUM HATCH PSI @ 28 DAYS ON COMPACTED SOIL (TOP WELL (REMOVE); (REMOVE) ELEVATION TO MATCH WET WELL RIM ELEVATION) INSTALL NEW 12" THICK (MIN.) ROUND -EX. VALVE W/ CONC. WET WELL TOP W/ MATCHING LINER PAD (REMOVE) PROVIDE 4" REVEAL. -FORCE MAIN CONTRACTOR ~ TO SEAL ALL ~INSTALL ±10 LF SEAMS PER MANUFACTURER'S RED., MJ, DI RECOMMENDATION. W/ 8" FOSTER ADAPTER REMOVE) EX. VAULTS TO ABANDON; PUNCH HOLES EX. LINER CLEAN-AT THE CORNERS THRU THE BOTTOM OF AND INSPECT INSTALL 8" 90° CONNECT TO EX. 8" LEX. SUPPORTS. THE VAULTS PRIOR TO BACKFILLING (REPAIR AS FM W/ 8" MJ SLEEVE DI BEND, MJ (3 TYP., REMOVE) W/COMPACTED CLEAN FILL (±9 CY); NECESSARY) TBD W/ COUNTY INSPECTOR INSTALL 316 SS PIPE BRACING SYSTEM, (2 MIN.). TOP BRACE TO (REMOVE & PATCH HOLE) BE 4' FROM TOP. LOWER BRACE TO BE 4' ABOVE BASE ELLS. MAX SPACING OF 8' BETWEEN BRACES. (SEE DETAIL SHEET) EX. MANHOLE ROTATED FOR LIFT STATION SCHEDULE (EXISTING) INFLUENT LINE -PIPE BRACING (TO REMAIN) (2 TYP., REMOVE) -INSTALL HDPE DR-11 PIPE, (2 TYP.) RADIO TELEMETRY UNIT (RTU) 450/123 DESIGN CAPACITY GPM/TDH -INSTALL NEW 316 SS PUMP GUIDE RAIL SYSTEM COMPOSED OF INFLUENT LINE REPAIR EX. LINER AROUND PUMP TYPE/ HP. EBARA/25 EX. MANHOLE (TO REMAIN) SINGLE LENGTH (WELDED) 2" PIPES (2 TYP) INFLUENT PIPE (±9 SF) ROTATED FOR GUIDE RAIL SYSTEM DISCHARGE PIPING DIAMETER 8" LIFT STATION SCHEDULE (PROPOSED) (2 TYP., REMOVE) -INSTALL PREFABRICATED HDPE FLANGE ADAPTER W/ 316 WET WELL DIAMETER 8' INSTALL FIBERGLASS W.W. LINER NO S.S. BACKING PLATE, SHOP FUSED (2 TYP.) EX ±14 LF 10" PVC--2.16BOTTOM SLAB ELEVATION APPLY SPRAY LINER W.W. LINER -DISCHARGE PIPING INSTALL 4"X 6" ECC. (2 TYP., REMOVE) 20.94 TOP ELEVATION REDUCER, DI, (2 TYP.) NO INSTALL STILLING WELL VALVE VAULT HATCH ELEVATION 20.94 YES ITEMS MAY BE ROTATED FOR CLARITY INSTALL FORCE MAIN ISOLATION VALVE INSTALL NEW 4" BPIU PUMP BASE ELBOWS, (2 TYP.) ITEMS MAY BE ROTATED FOR CLARITY -PUMP BASE ELBOWS & 5.43 INFLUENT INVERT ELEVATION ANCHORING HARDWARE YES, 6" NEW HDPE DISCHARGE PIPING **ELEVATION ELEVATION** (2 TYP., REMOVE) INFLUENT PIPE SIZE 10" PVC -INSTALL NEW 4" BASE ELBOW MOUNTING PLATES AND ANCHOR BOLTS; MAY REQUIRE GRINDING OR LEVELING OF BASE GROUT YES EX. 2 PUMP LIFT STATION EX. 2 PUMP LIFT STATION NEW BASE ELL 8", PVC FORCE MAIN DIAMETER (SEE BASE ELL MOUNTING PLATE DETAIL ON DETAIL SHEET) (2 MODIFY TOP OF WET WELL WET WELL VENT PIPE PVC QUESTIONS: ELECT. POWER, VOLTS/PH 480/3 NO MODIFY TOP OF VALVE VAULT: ELECT. SERVICE SIZE, AMPS 150 YES INSTALL WET WELL VENT PIPE WATER DISTRIBUTION IS PUBLIC EX. FORCEMAIN TIE-IN INSTALL NEW WATER SERVICE ASSEMBLY NO * INFORMATION TAKEN FROM LIFT STATION DATA FIL CEMED COLLECTION IC DIDLIC RELOCATE EX. WATER SERVICE ASSEMBLY (LSINFO.XLS 2020) & RECORD DRAWINGS. DATUM OF REVISION DESCRIPTION DATE SATELLITE LIFT STATION R&R

2024 GROUP 2 RIVER CLUB COMMERICAL PARK, RTU 694



1022 26th Avenue East, Bradenton, FL 34208

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