

MANATEE COUNTY
UTILITY ENGINEERING SECTION

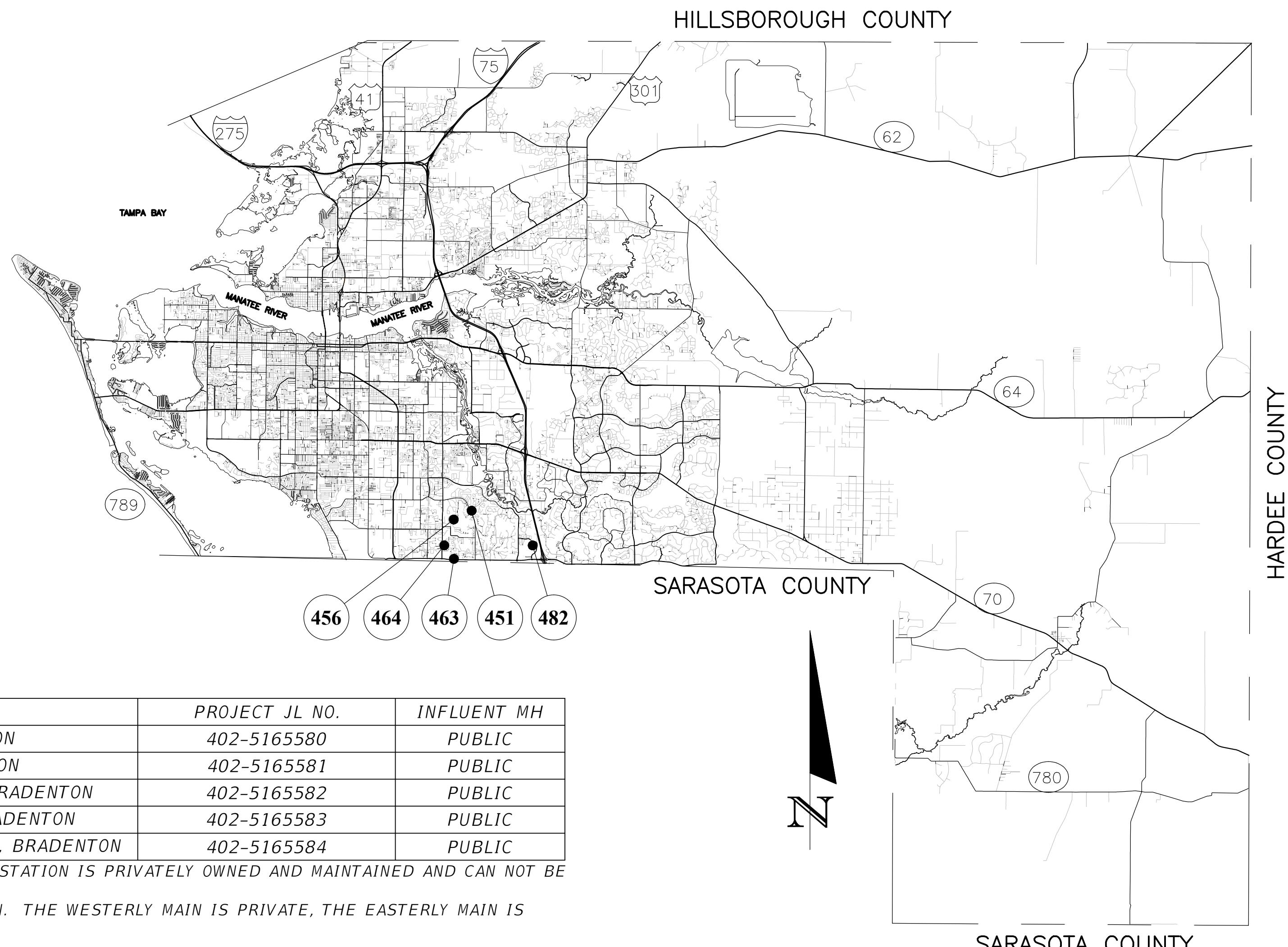
SATELLITE LIFT STATION R&R
2026 GROUP 1

402.0019707

OCTOBER 2025

INDEX OF SHEETS

NO.	DESCRIPTION
01	COVER
02	GENERAL NOTES
03	VICINITY MAPS
04	FAIRWAY 6, RTU 451 (Rehab)
05	PINEHURST, RTU 456 (Rehab)
06	UNIVERSITY PINES, RTU 463 (Rehab)
07	GLENBROOKE, RTU 464 (Rehab)
08	COOPER CREEK 15, RTU 482 (Rehab)
09	DETAILS1
10	DETAILS2
11	DETAILS3
12	EROSION CONTROL



L.S. NAME	RTU	ADDRESS	PROJECT JL NO.	INFLOW MH
FAIRWAY 6	451	5610 DORAL DR., BRADENTON	402-5165580	PUBLIC
PINEHURST	456	4924 LINSEY CT., BRADENTON	402-5165581	PUBLIC
UNIVERSITY PINES	463	3533 UNIVERSITY PKWY., BRADENTON	402-5165582	PUBLIC
**GLENBROOKE	464	4601 GLENBROOKE DR., BRADENTON	402-5165583	PUBLIC
COOPER CREEK 15	482	8300 COOPER CREEK BLVD., BRADENTON	402-5165584	PUBLIC

(*) THE GRAVITY SEWER MAIN(S) AND MANHOLE(S) ADJACENT TO THE LIFT STATION IS PRIVATELY OWNED AND MAINTAINED AND CAN NOT BE UTILIZED FOR BYPASS PUMPING.

(**) THERE ARE TWO GRAVITY MAINS DISCHARGING INTO THIS LIFT STATION. THE WESTERLY MAIN IS PRIVATE, THE EASTERLY MAIN IS PUBLIC.

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.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

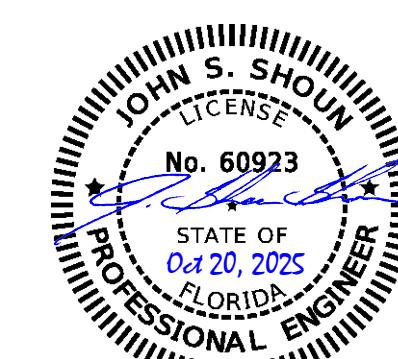


Know what's below
Call before you dig

CONSTRUCTION
PLANS



THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY



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THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

UTILITY PLANS
ENGINEER OF RECORD:
J. SHEA SHOUN, P.E.,
FL LICENSE No: 60923

MANATEE COUNTY PUBLIC WORKS
1022 26th AVENUE EAST
BRADENTON, FL 34208

FISCAL YEAR	SHEET NO.
2025	01 of 13

GENERAL

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: PAUL HAAS, P.E. AND CAN BE REACHED AT 941.708.7450 x4966.
- 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, FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND/OR THE FLORIDA BUILDING CODE. ALL WORK ON PRIVATE PROPERTY SHALL BE PERFORMED BY A LICENSED PLUMBER REGISTERED IN MANATEE COUNTY, 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 TO THE OWNER.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- 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.
- SAFETY**
- 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.
- THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.
- ENVIRONMENTAL**
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDOT "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.
- 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.
- 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.
- 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.
- 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.
- 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.
- ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 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.
- FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.
- RIGHT-OF-WAY**
- ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 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.
- THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
- 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.
- 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.
- 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.
- A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.
- UTILITIES**
- ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT ALL TIMES, I.E. VALVES, MANHOLE COVERS, SEWER CLEAN-OUTS, ETC.
- 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.
- 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.
- 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.
- 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.
- 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.
- ALL WATER SERVICES TO BE INSTALLED OR MODIFIED ON PRIVATE PROPERTY SHALL REQUIRE A PLUMBING PERMIT;
- 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.

REVISIONS

DATE	DESCRIPTION



1022 26th Avenue East, Bradenton, FL 34208

J. SHEA SHOUN, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 60923.
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
J. SHEA SHOUN, P.E. ON THE DATE INDICATED HERE.
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
PROJECT #	402.0019707	SURVEYED	-	-
SEC./TWN./RGE	VARIES	DESIGNED	JSS	2/2025
SCALE	SEE PLANS	DRAWN	JSS	2/2025

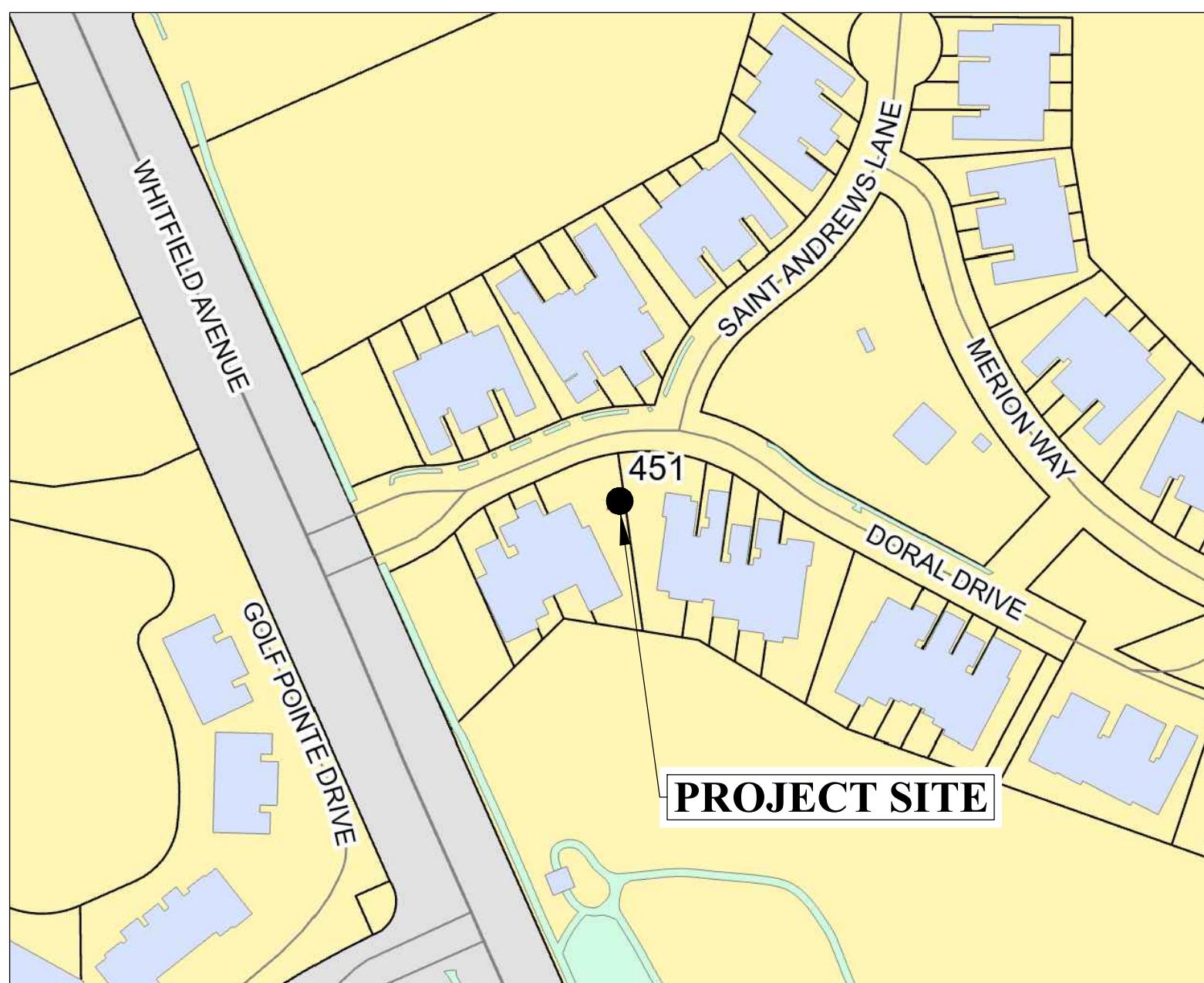
EMERGENCY CONTACTS

MANATEE COUNTY PUBLIC WORKS DEPT. UTILITY ENGINEERING ERIC SHROYER, P.E. 1022 26TH AVENUE EAST BRADENTON, FL 34208 (813) 275-4262 REFERENCE 2010 EDITION OF FDOT UTILITY ACCOMMODATION MANUAL (UAM)	FLORIDA POWER & LIGHT TODD BOLKEMA 1253 11TH AVENUE EAST PALMETTO, FL 34221 (941) 927-4262 EMERGENCY: 1-800-4-OUTAGE (813) 466-3327 TODD.BOLKEMA@FPL.COM	FLORIDA GAS TRANSMISSION JOHN LUDLOW 7804 ANDERSON RD. WACHULA, FL 33873 (863) 767-4600 KENDELL.COKER@PRECO.COOP	PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310 WACHULA, FL 33873 KENDELL.COKER@PRECO.COOP
MANTAE COUNTY POWER & LIGHT ED. WATSON 13051 N. TELECOM PKWY BRADENTON, FL 34203 (813) 470-5875	FDEP, SOUTHWEST DISTRICT ED. WATSON 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 (813) 470-5875	MANATEE COUNTY POWER & LIGHT HANS ROESE 410 6TH AVENUE EAST BRADENTON, FL 34203 (941) 748-0747 EXT. 1355 EMERGENCY: 1-877-832-6911	MANATEE COUNTY POWER & LIGHT HANS ROESE 410 6TH AVENUE EAST TEMPLE TERRACE, FL 33637 (813) 470-5875
FRONTIER JOHN PLOTT 1701 RINGLING BLVD. SARASOTA, FL 34236 (941) 748-3816 EXT. 21348 JOHN.PLOTT@FRONTIER.COM	SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT STEVE LOPES, P.E. 6750 FRUITVILLE ROAD SARASOTA, FL 34240 (941) 377-3722	FRONTIER JOHN PLOTT 1701 RINGLING BLVD. SARASOTA, FL 34236 (941) 748-3816 EXT. 21348 JOHN.PLOTT@FRONTIER.COM	SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT STEVE LOPES, P.E. 6750 FRUITVILLE ROAD SARASOTA, FL 34240 (941) 377-3722
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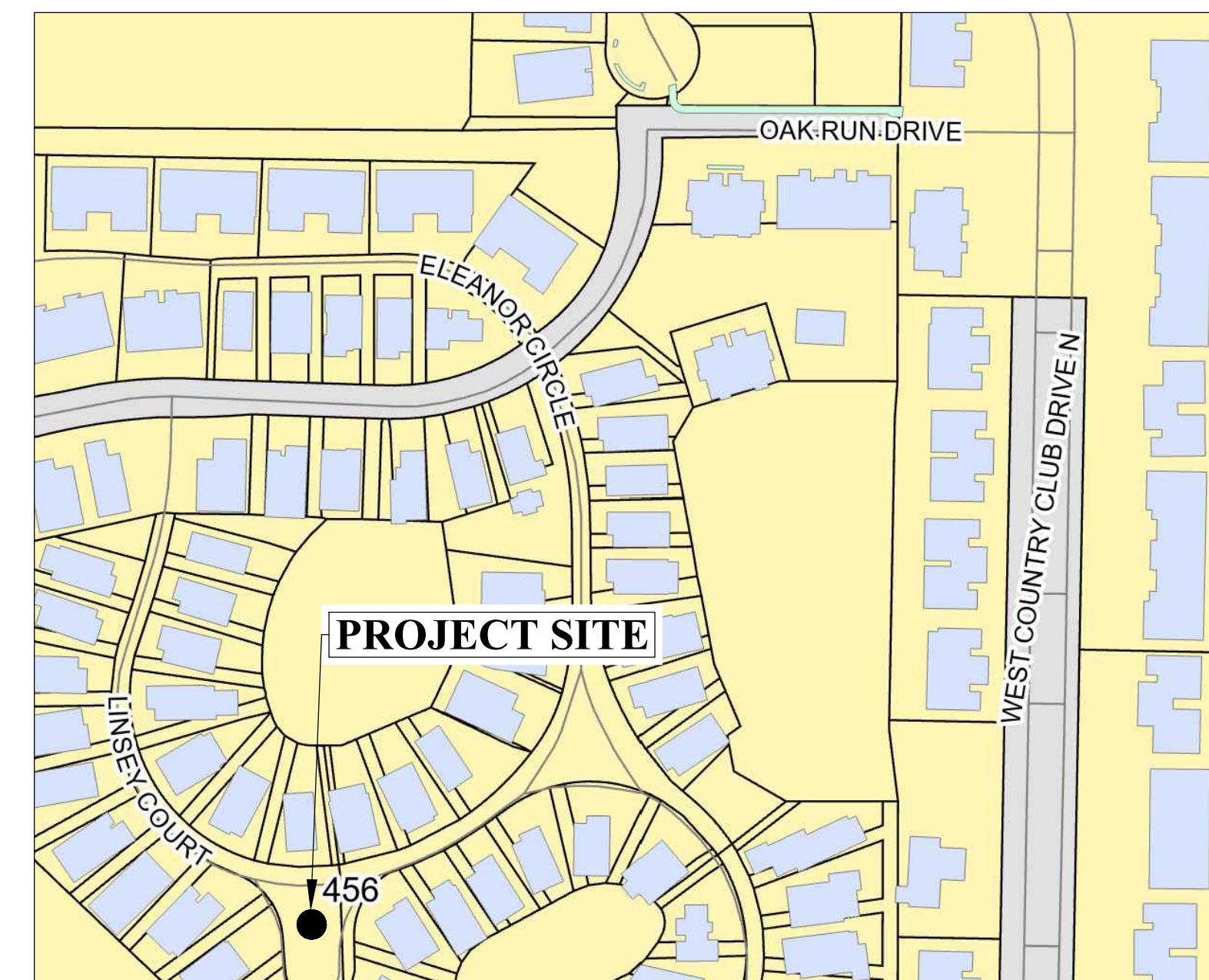
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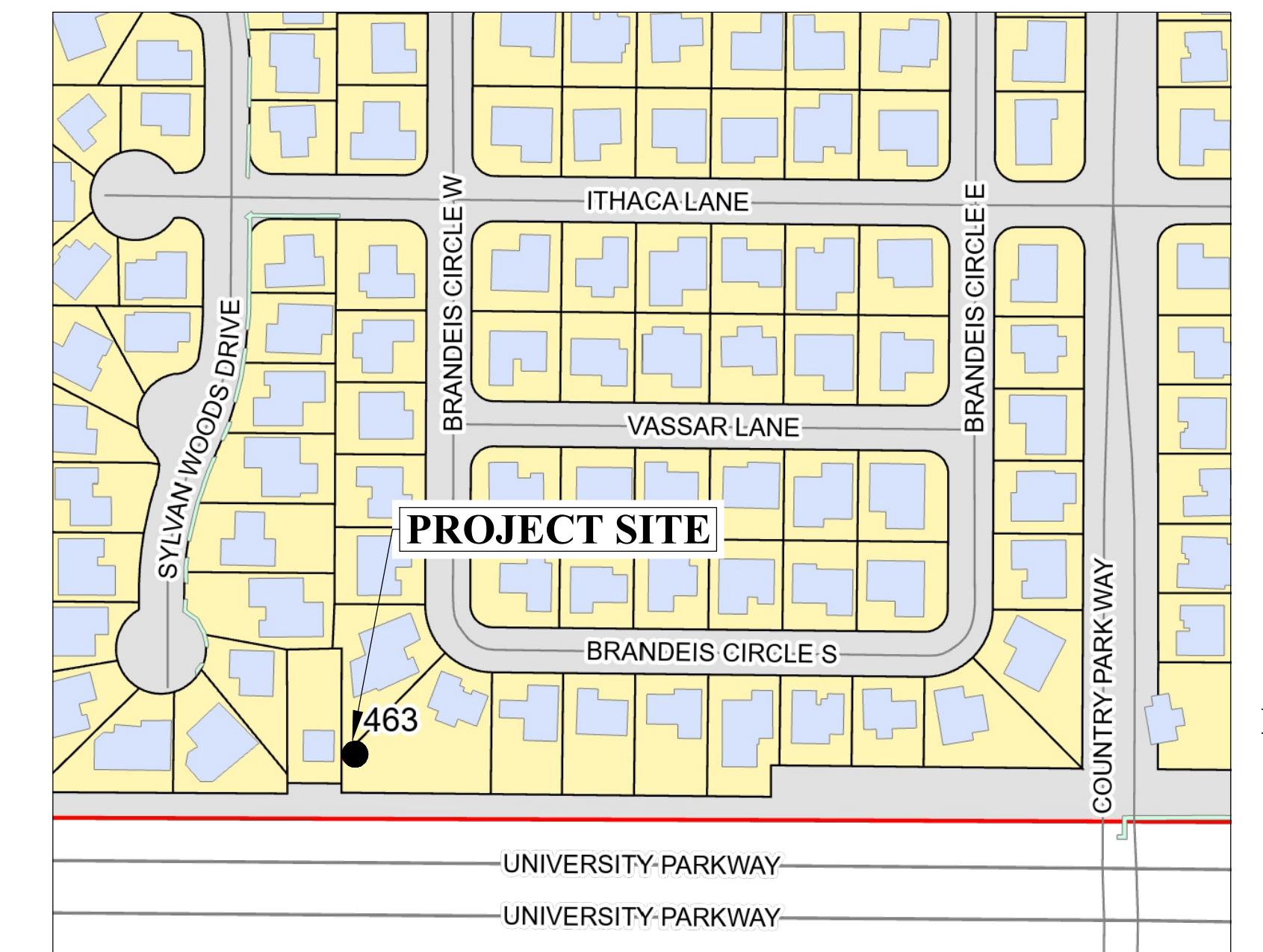
SATELLITE	



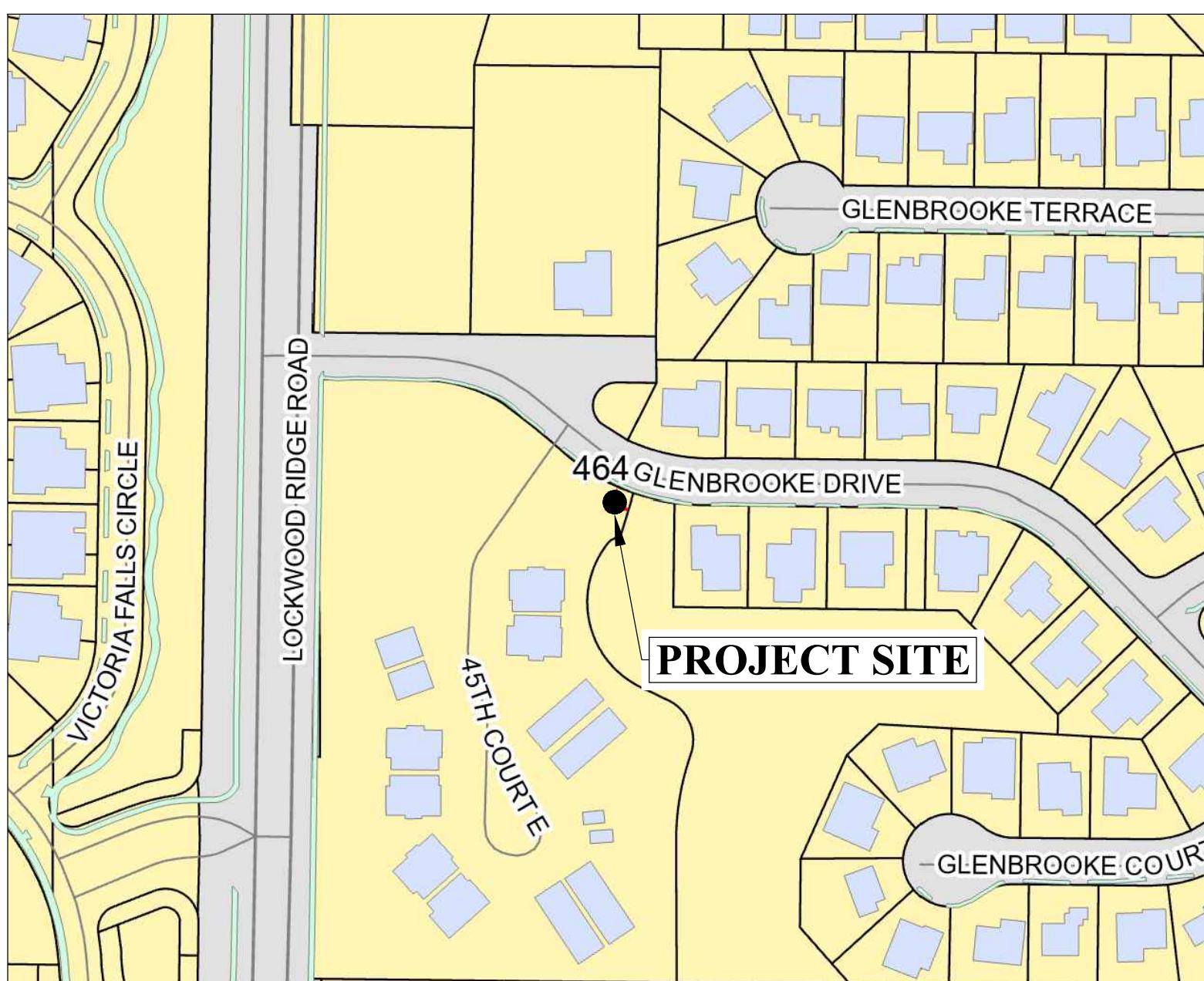
FAIRWAY 6, RTU 451,
5601 DORAL RD, BRADENTON
LAT N: 27.412903°
LONG W: -82.488831°



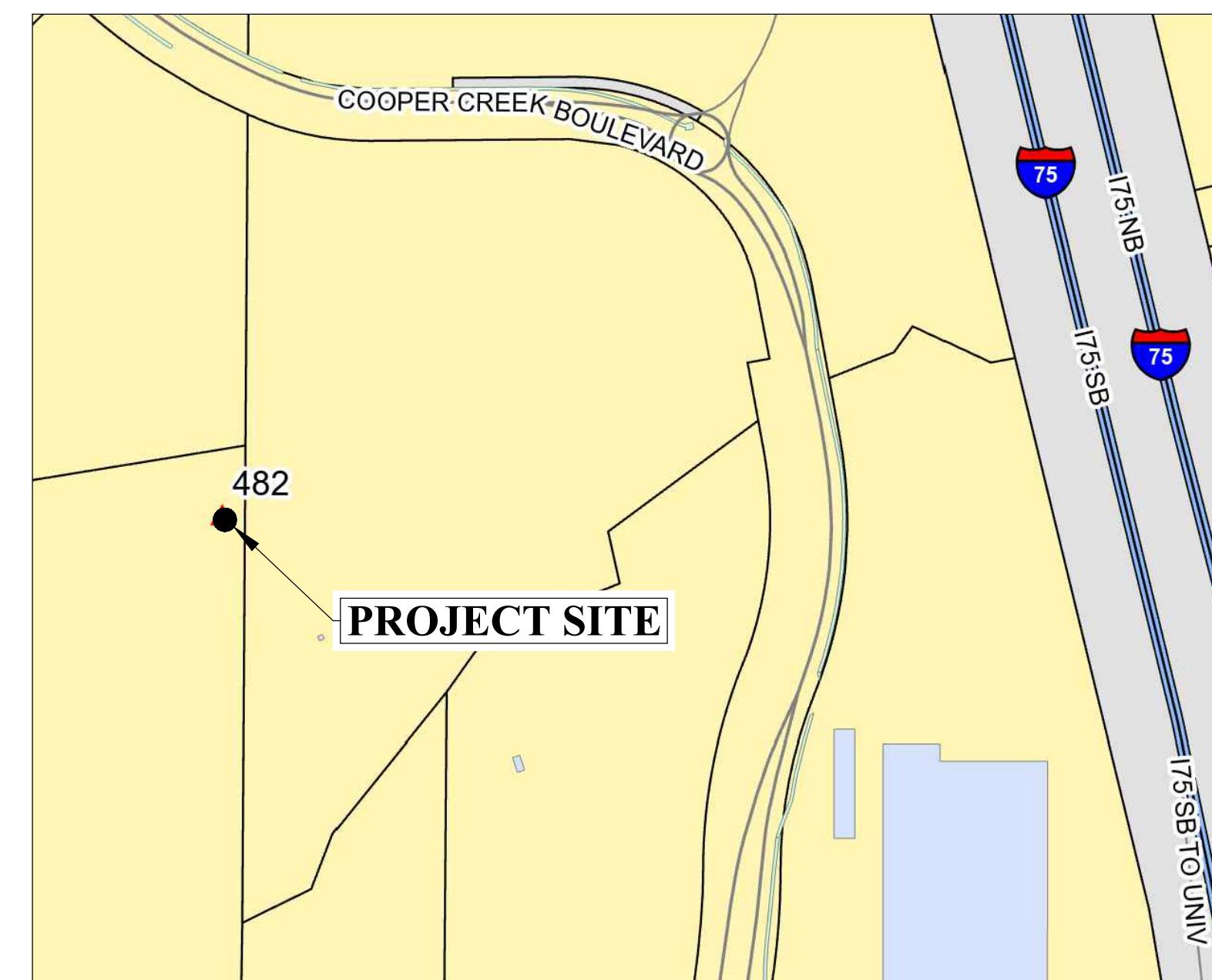
PINEHURST, RTU 456,
4924 LINSEY CT, BRADENTON
LAT N: 27.408431°
LONG W: -82.499227°



UNIVERSITY PINES, RTU 463,
3533 UNIVERSITY PARKWAY, BRADENTON
LAT N: 27.388840°
LONG W: -82.498819°



GLENBROOKE, RTU 464,
4601 GLENBROOKE DR, BRADENTON
LAT N: 27.395631°
LONG W: -82.504393°



COOPER CREEK 15, RTU 482,
8300 COOPER CREEK BLVD, BRADENTON
LAT N: 27.395812°
LONG W: -82.455472°

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> .

REVISIONS	
DATE	DESCRIPTION



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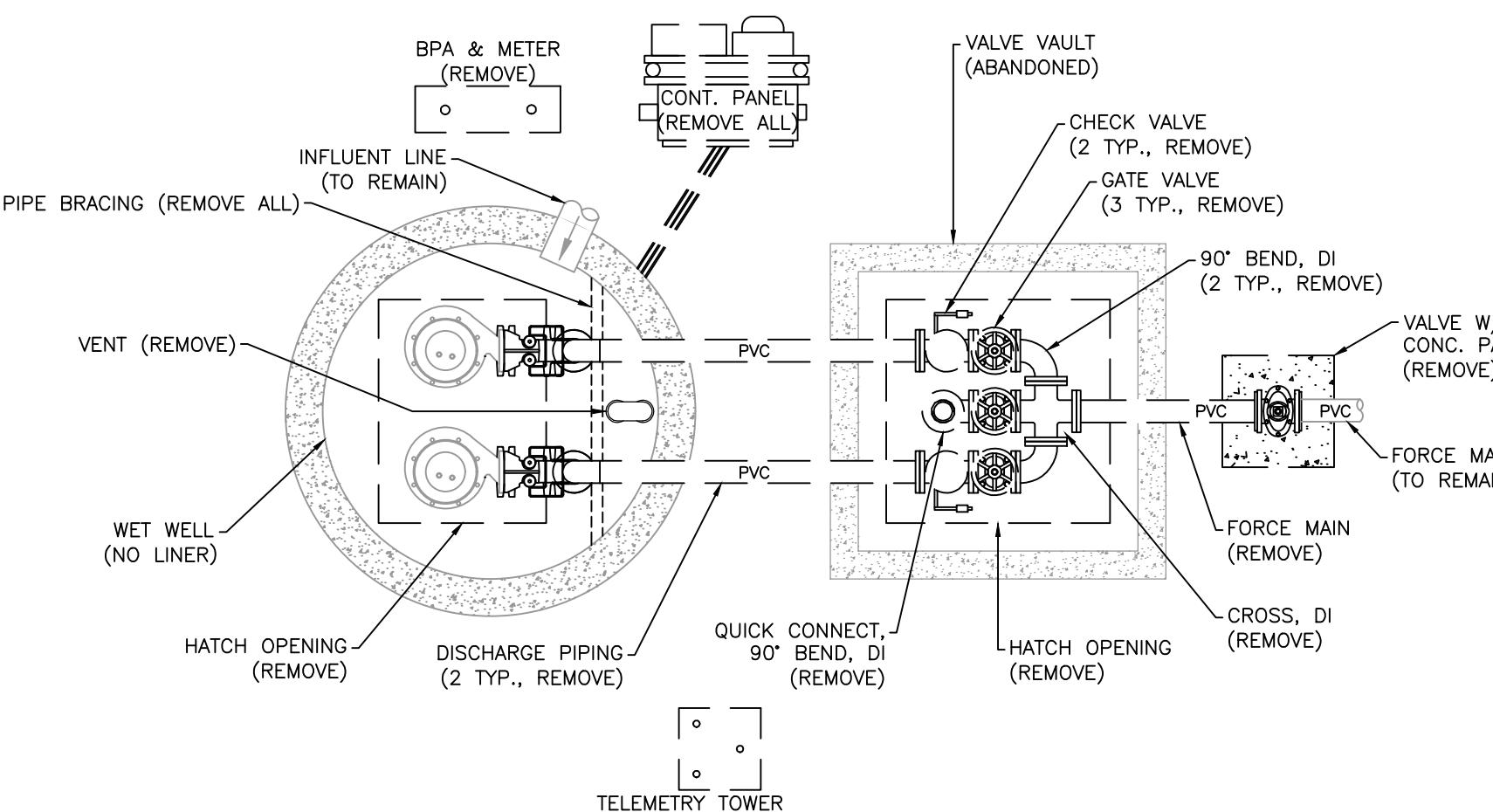
MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
PROJECT #	402.001970	SURVEYED	-	-
SEC./TWN./RGE	VARIES	DESIGNED	JSS	2/2025
SCALE	NA	DRAWN	JSS	2/2025

SATELLITE LIFT STATION R&R
2026 GROUP 1
VICINITY MAPS

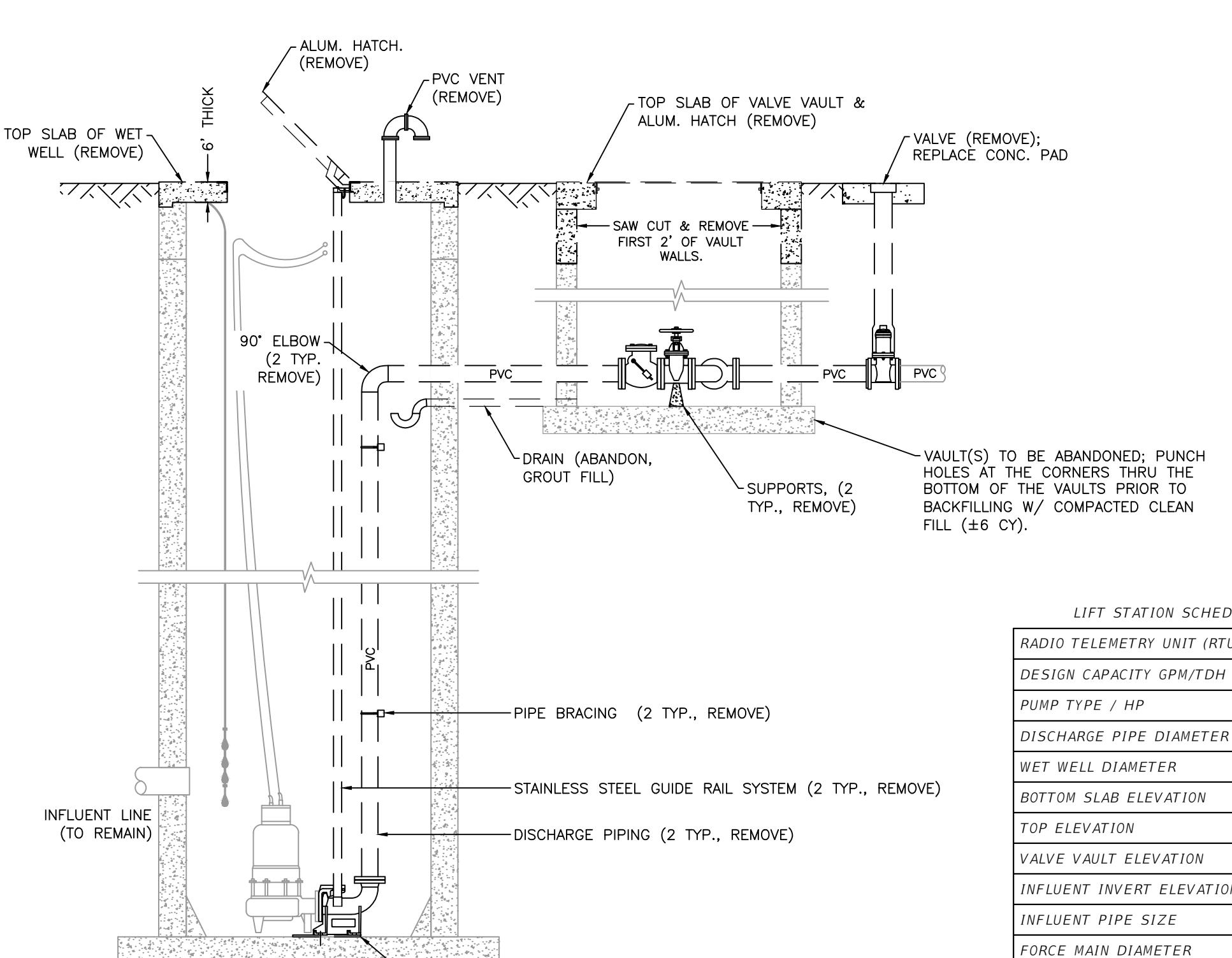
SHEET
NO.
03 of 13

EXISTING

NOTES:
1. THE WET WELL AND VALVE VANTU configuration shown on these graphics is for identification of components to be removed. The contractor shall field verify all existing conditions, elevations, configuration, etc. for accuracy.
2. 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 each, if needed.
7. The contractor is responsible for restoring any damaged landscaping to existing or design conditions.
8. The work area is limited to the lift station site.



PLAN

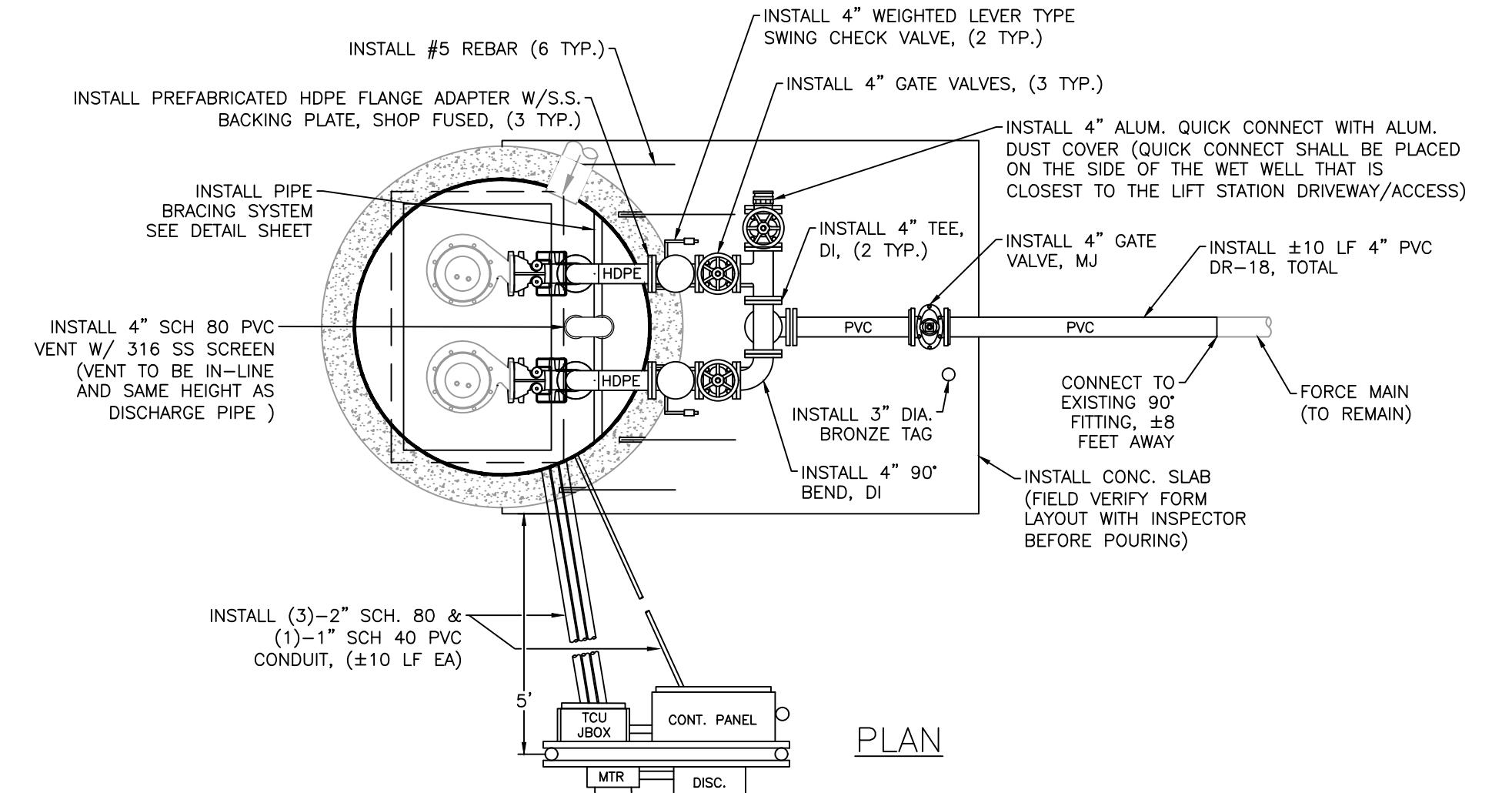
ELEVATION
EX. 2 PUMP LIFT STATION
NTS

LIFT STATION SCHEDULE (EXISTING)	
RADIO TELEMETRY UNIT (RTU)	451
DESIGN CAPACITY GPM/TDH	86 / 20
PUMP TYPE / HP	HOMA AMKA34 / 4
DISCHARGE PIPE DIAMETER	4"
WET WELL DIAMETER	6'
BOTTOM SLAB ELEVATION	0.80
TOP ELEVATION	19.30
VALVE VANTU ELEVATION	19.30
INFLUENT INVERT ELEVATION	5.80
INFLUENT PIPE SIZE	8" DIP
FORCE MAIN DIAMETER	4"
WET WELL VENT PIPE	PVC
ELECT. POWER, VOLTS / PH	240 / 3
ELECT. SERVICE SIZE, AMPS	100
EX. FORCE MAIN TIE-IN	FM
FLOODPLAIN INFORMATION	X
* INFORMATION TAKEN FROM LIFT STATION DATA FILE (LSINFO.XLS 2024) & RECORD DRAWINGS. DATUM OF ELEVATIONS IS UNKNOWN.	

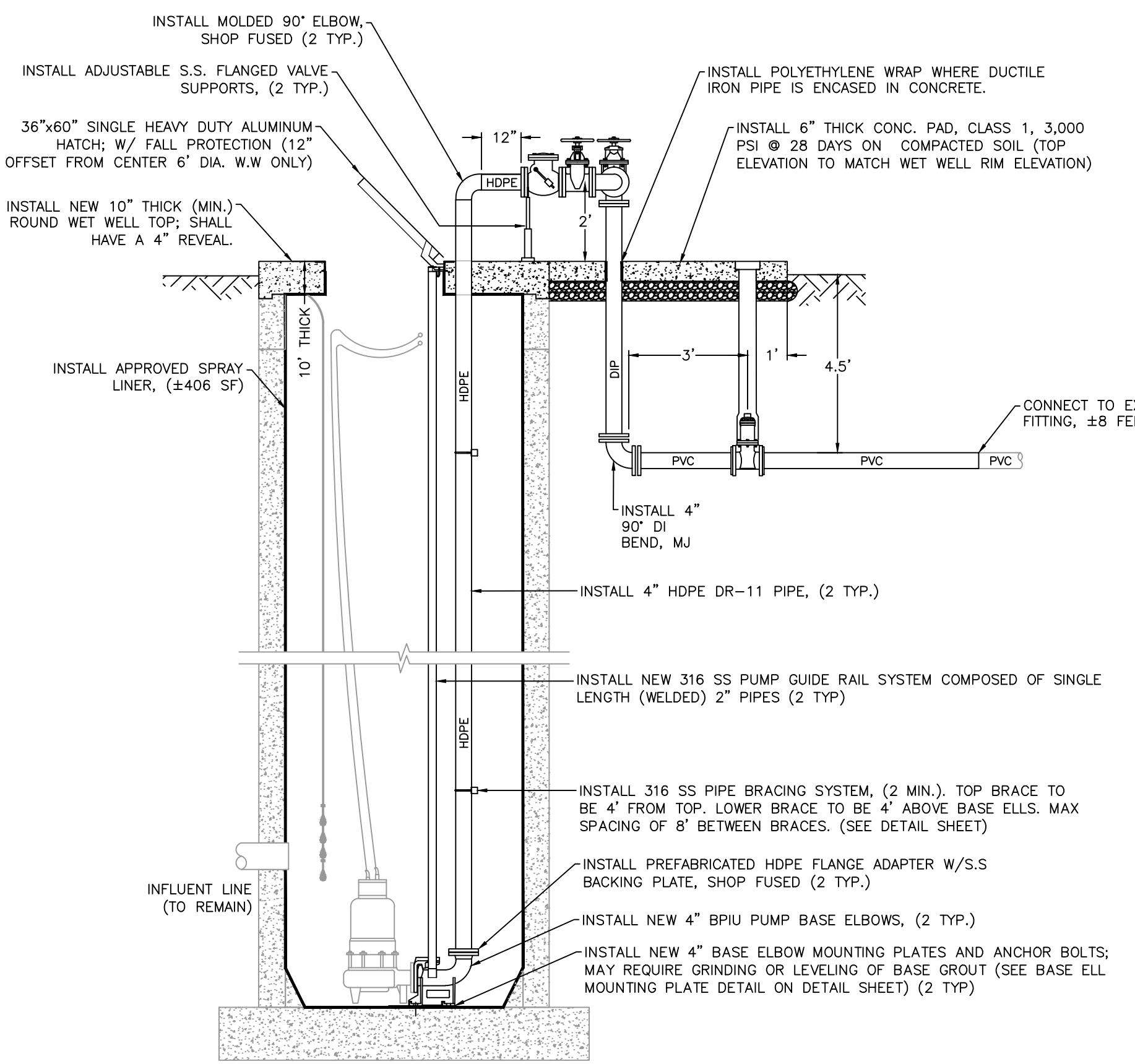
PROPOSED

GENERAL NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS. ALL HORIZONTAL AND VERTICAL DISTANCES AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE AWARDED CONTRACTOR.
2. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL BE NOT MORE THAN 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".
3. EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONCRETE PAD AND THE WET WELL SHALL BE 1/2" MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213.
4. THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE PAD EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H. & C. SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS. THE ABOVE GROUND VALVE ASSEMBLY & PIPING SHALL BE PAINTED, RUSTOLEUM 7538 HUNTER GREEN. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT OVER-SPRAY OF PAINT ONTO THE CONCRETE SLAB.
5. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM TO BE PAINTED.



PLAN

ELEVATION
EX. 2 PUMP LIFT STATION
NTS

LIFT STATION SCHEDULE (PROPOSED)	
INSTALL FIBERGLASS W.W. LINER	NO
INSTALL WET WELL SPRAY LINER	YES
INSTALL BUBBLER UNIT	YES
INSTALL FORCE MAIN ISOLATION VALVE	YES
NEW HDPE DISCHARGE PIPING	YES
NEW BASE ELBOW	YES
MODIFY W.W. TOP ELEVATION BY (ADDING / REMOVING) PORTION OF BARREL SECTION	NO
MODIFY V.V. TOP ELEVATION BY (ADDING / REMOVING) PORTION OF WALL SECTION	NA
INSTALL WET WELL VENT PIPE	YES
INSTALL NEW WATER SERVICE ASSEMBLY	YES, STD.
RELOCATE EX. WATER SERVICE ASSEMBLY	NA

NOTES:
1. WATER DISTRIBUTION IS PUBLIC.
2. SEWER COLLECTION IS PUBLIC.
3. LIFT STATION WITHIN EASEMENT BTW TWO HOMES.

CONSTRUCTION NOTES:
1. MANATEE COUNTY HAS FIRST RIGHTS OF REFUSAL ON ALL EXISTING EQUIPMENT.
2. INSTALL ALL NEW ELECTRICAL SERVICE WITH CONDUIT. IF THE EXISTING ELECTRICAL CONDUIT HAS A MINIMUM DIAMETER OF 2-INCHES OR IS PROPERLY SIZED PER NEC (WHICHEVER IS GREATER), THEN THE EXISTING ELECTRICAL CONDUIT CAN BE LEFT IN PLACE AND USED. IF NEEDED, THE EXISTING CONDUIT SHALL BE EXTENDED TO THE NEW LOCATION AND INSTALL NEW CONDUCTORS, (± 100 LF).
3. ANY ELECTRICAL WIRING THAT IS INSTALLED UNDERNEATH THE ABOVEGROUND VALVE ASSEMBLY CONCRETE PAD SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE STRUCTURE.
4. 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.
5. 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.
6. 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.
7. 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).
8. 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 FLUSH.
9. WET WELL CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO INSTALLATION OF NEW SPRAY LINER AND/OR LINER REPAIR.
10. INSTALL A NEW 2-INCH WATER SERVICE LINE AND 8"X2" TAPPING SADDLE; A STANDARD METER/BPA ASSEMBLY; AND A 3/4-INCH HOSE BIBB ASSEMBLY PER COUNTY STANDARDS. THE METER/BIBB ASSEMBLY 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. (± 58 LF).
11. ABANDON EXISTING WATER SERVICE SADDLE AND CORPORATION STOP.
12. 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. (± 76 SF).
13. EXISTING MANHOLE CAST IRON FRAME AND COVER SHALL BE REMOVED. A NEW HEAVY DUTY COMPOSITE FRAME AND COVER SHALL BE INSTALLED. THE NEW FRAME AND COVER SHALL BE ADJUSTED TO THE NEW DRIVEWAY GRADE.
14. REGRADE SITE TO ALLOW FOR A POSITIVE DRAINAGE SLOPE AWAY FROM THE LIFT STATION AREA TOWARDS THE SURROUNDING DITCHES. MAXIMUM OF 1% SLOPE. WHERE APPROPRIATE, SOD AFFECTED AREAS.

REVISIONS	
DATE	DESCRIPTION

Manatee County Florida
1022 26th Avenue East, Bradenton, FL 34208

J. SHEA SHOUN, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 60923.
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
J. SHEA SHOUN, P.E. ON THE DATE INDICATED HERE.
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
PROJECT #	402-5165580	SURVEYED	-	-
SEC./TWN./RGE	27/35/18	DESIGNED	JSS	2/2025
SCALE	SEE PLANS	DRAWN	JSS	2/2025

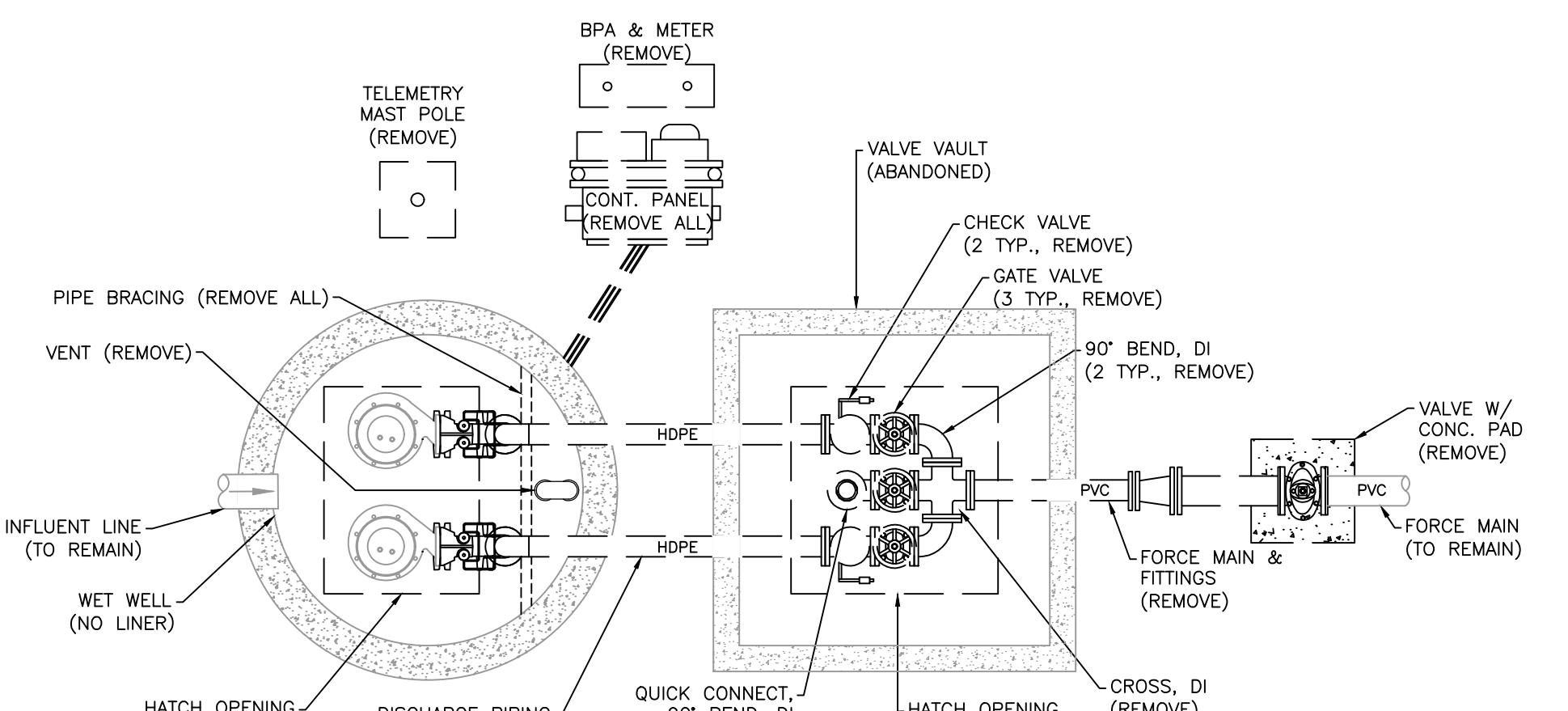
**SATELLITE LIFT STATION R&R
2026 GROUP 1
FAIRWAY 6, RTU 451 (REHAB)**

SHEET
NO.
04 of 13

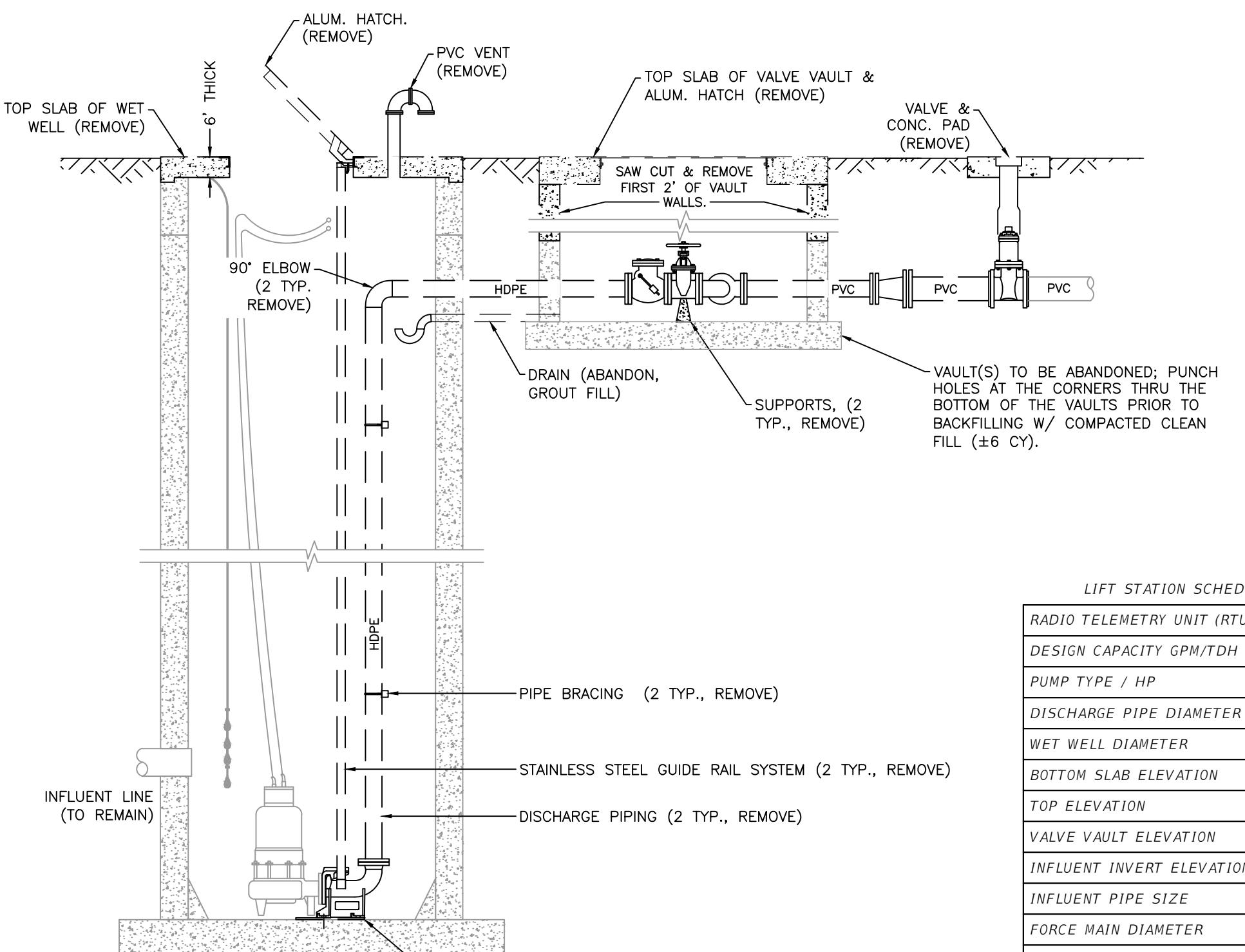
EXISTING

NOTES:

1. THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY.
2. 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 EACH, IF NEEDED.
7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING OR DESIGN CONDITIONS.
8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE.



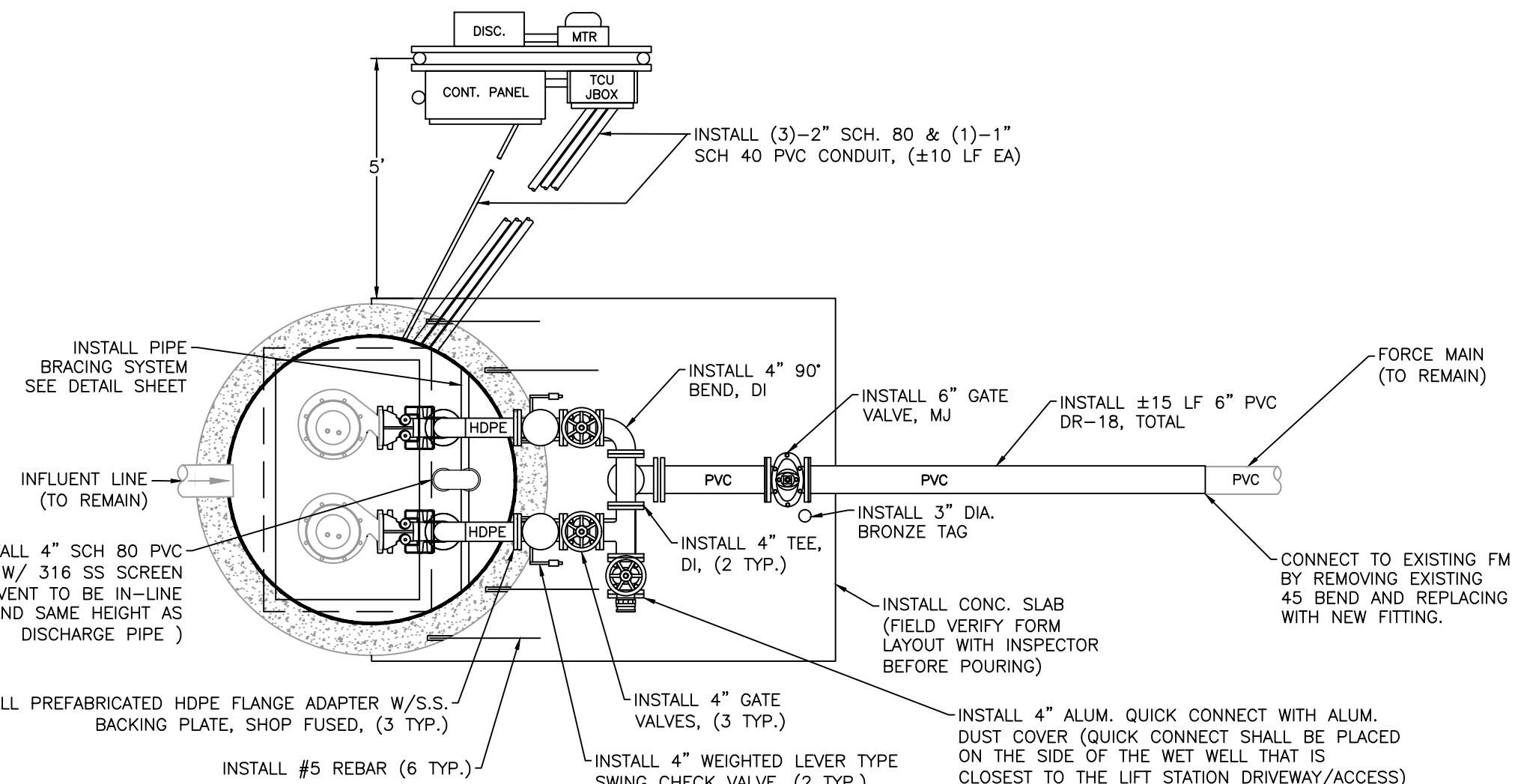
PLAN

ELEVATION
EX. 2 PUMP LIFT STATION
NTS

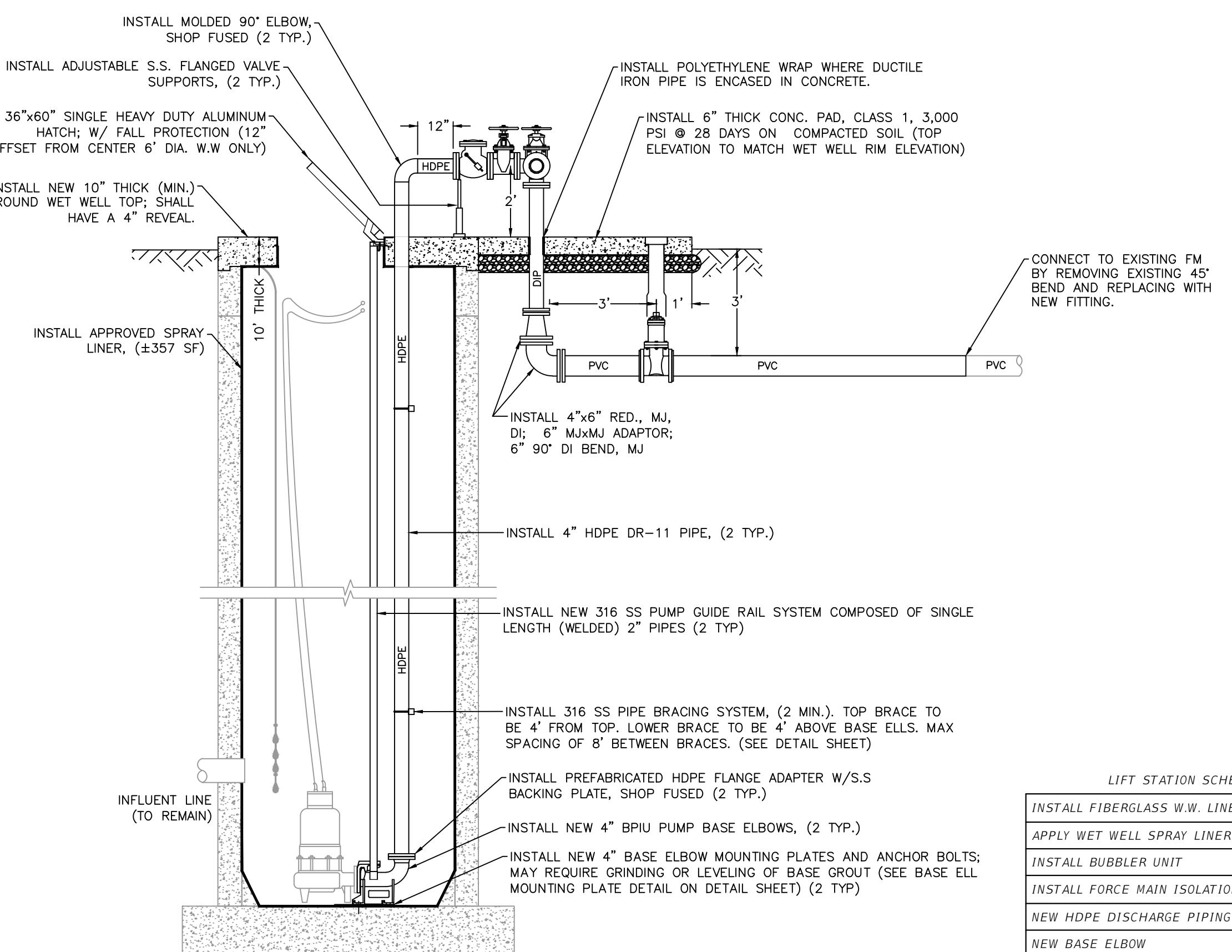
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5. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM TO BE PAINTED.



PLAN

ELEVATION
EX. 2 PUMP LIFT STATION
NTS

CONSTRUCTION NOTES:

1. MANATEE COUNTY HAS FIRST RIGHTS OF REFUSAL ON ALL EXISTING EQUIPMENT.
2. INSTALL ALL NEW ELECTRICAL SERVICE WITH CONDUIT. IF THE EXISTING ELECTRICAL CONDUIT IS OF THE MINIMUM DIAMETER OF 2-INCHES OR IS PROPERLY SIZED PER NEC (WHICHEVER IS GREATER), THEN THE EXISTING ELECTRICAL CONDUIT SHALL BE LEFT IN PLACE AND USED. IF NEEDED, THE EXISTING CONDUIT SHALL BE EXTENDED TO THE NEW LOCATION AND INSTALL NEW CONDUCTORS, (+1120 LF. HDD UNDER A ROADWAY WILL BE REQUIRED).
3. ANY ELECTRICAL WIRING THAT IS INSTALLED UNDERNEATH THE ABOVEGROUND VALVE ASSEMBLY CONCRETE PAD SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE STRUCTURE.
4. 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 BY MANATEE COUNTY PERSONNEL. CONTRACTOR RESPONSIBLE FOR VERIFYING SIZE OF RACK TO HOLD ALL PROPOSED ELECTRICAL ENCLOSURES/COMPONENTS.
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6. INSTALL #5 REBAR (6 TYP.) EPOXY EMBEDDED INTO THE WET WELL CONCRETE 12 INCHES DEEP AND CAST 3 FEET INTO THE VALVE ASSEMBLY CONCRETE PAD TO ENSURE THE TOPS OF THE WET WELL AND VALVE ASSEMBLY PAD WILL REMAIN FLUSH.
7. WET WELL CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO INSTALLATION OF NEW SPRAY LINER AND/OR LINER REPAIR.
8. INSTALL A NEW 2-INCH WATER SERVICE LINE AND 6"X2" TAPPING SADDLE; A STANDARD METER/BPA ASSEMBLY; AND A 3/4-INCH HOSE BIBB ASSEMBLY PER COUNTY STANDARDS VIA DIRECT BURY. THE EXISTING WATER MAIN IS LOCATED IN THE ROW ON THE SAME SIDE AS THE LIFT STATION SITE. THE METER/BPA SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE FENCE / EASEMENT / RIGHT-OF-WAY LINE IN CLOSEST PROXIMITY TO THE WATER DISTRIBUTION MAIN. ALL ITEMS SHALL BE FIELD LOCATE WITH MANATEE COUNTY PERSONNEL, (+30 LF).
9. ABANDON EXISTING WATER SERVICE SADDLE AND CORPORATION AT MAIN; INSTALL A BRASS PLUG IN CORPORATION STOP.
10. INSTALL A 10-FT WIDE 6-INCH THICK REINFORCE CONCRETE STANDARD DRIVEWAY. THE DRIVEWAY SHALL ALLOW FOR UTILITY VEHICLE TO PARALLEL PARK OFF THE ROADWAY. EXACT LOCATION AND LAYOUT SHALL BE DETERMINED IN THE FIELD WITH COUNTY PERSONNEL, (+70 SY).
11. REGRADE SITE TO ALLOW FOR A POSITIVE DRAINAGE SLOPE AWAY FROM THE LIFT STATION AREA TOWARDS THE SURROUNDING DITCHES. MAXIMUM OF 1% SLOPE, WHERE APPROPRIATE, SO AFFECTED AREAS.
12. REMOVE ANY NECESSARY LANDSCAPING TO ENSURE PROPER FUNCTION OF THE PROPOSED DRIVEWAY. COORDINATE WITH COUNTY INSPECTOR PRIOR TO REMOVAL OF ANY LANDSCAPING.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.04, F.A.C.

NOTES:

1. WATER DISTRIBUTION IS PUBLIC.
2. SEWER COLLECTION IS PUBLIC.
3. LIFT STATION WITHIN MEDIAN ISLAND. THERE IS A 20' WIDE UTILITY EASEMENT.

REVISIONS

DATE	DESCRIPTION



1022 26th Avenue East, Bradenton, FL 34208

J. SHEA SHOUN, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 60923.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
J. SHEA SHOUN, P.E. ON THE DATE INDICATED HERE.

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MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

PROJECT #	402-5165581	SURVEYED	-	-
SEC./TWN./RGE	28/35/18	DESIGNED	JSS	2/2025
SCALE	SEE PLANS	DRAWN	JSS	2/2025

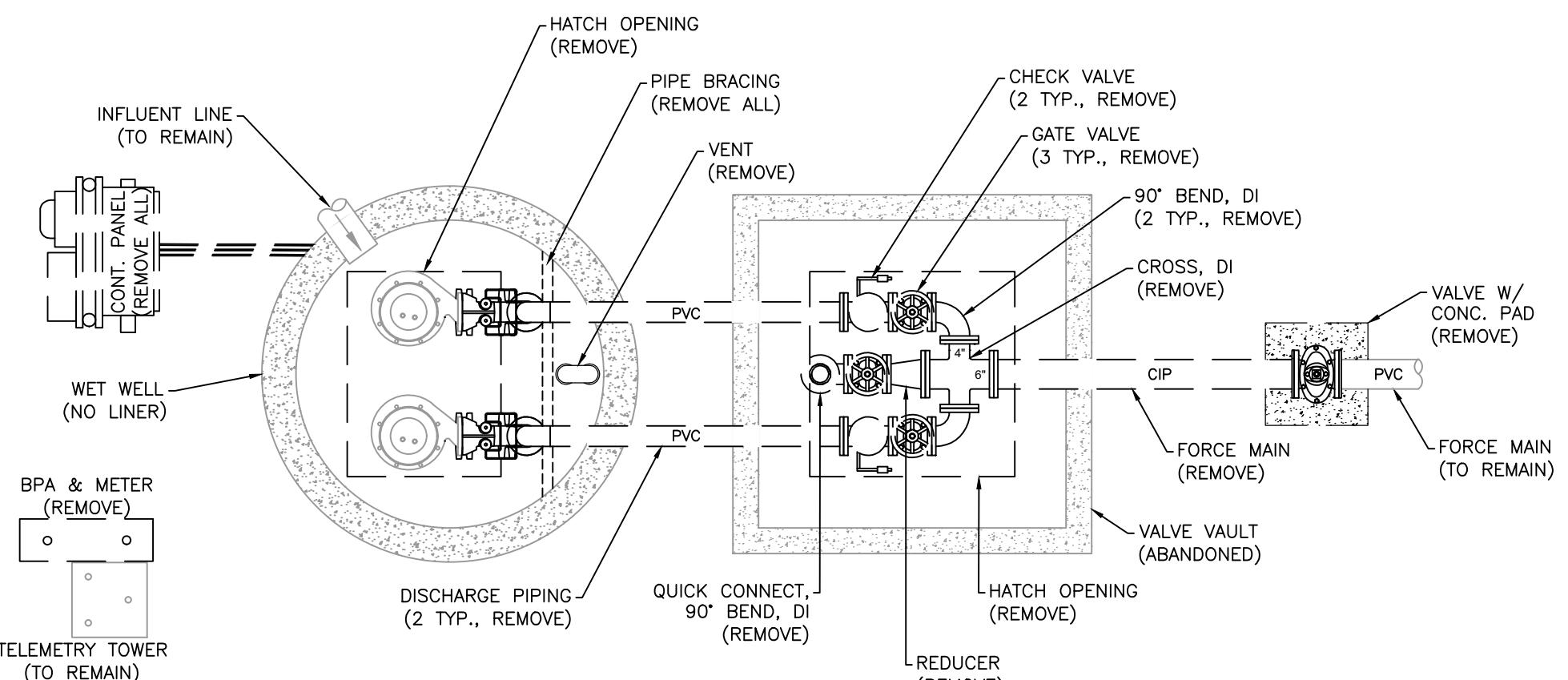
SATELLITE LIFT STATION R&R
2026 GROUP 1
PINEHURST, RTU 456 (REHAB)

SHEET
NO.
06 of 13

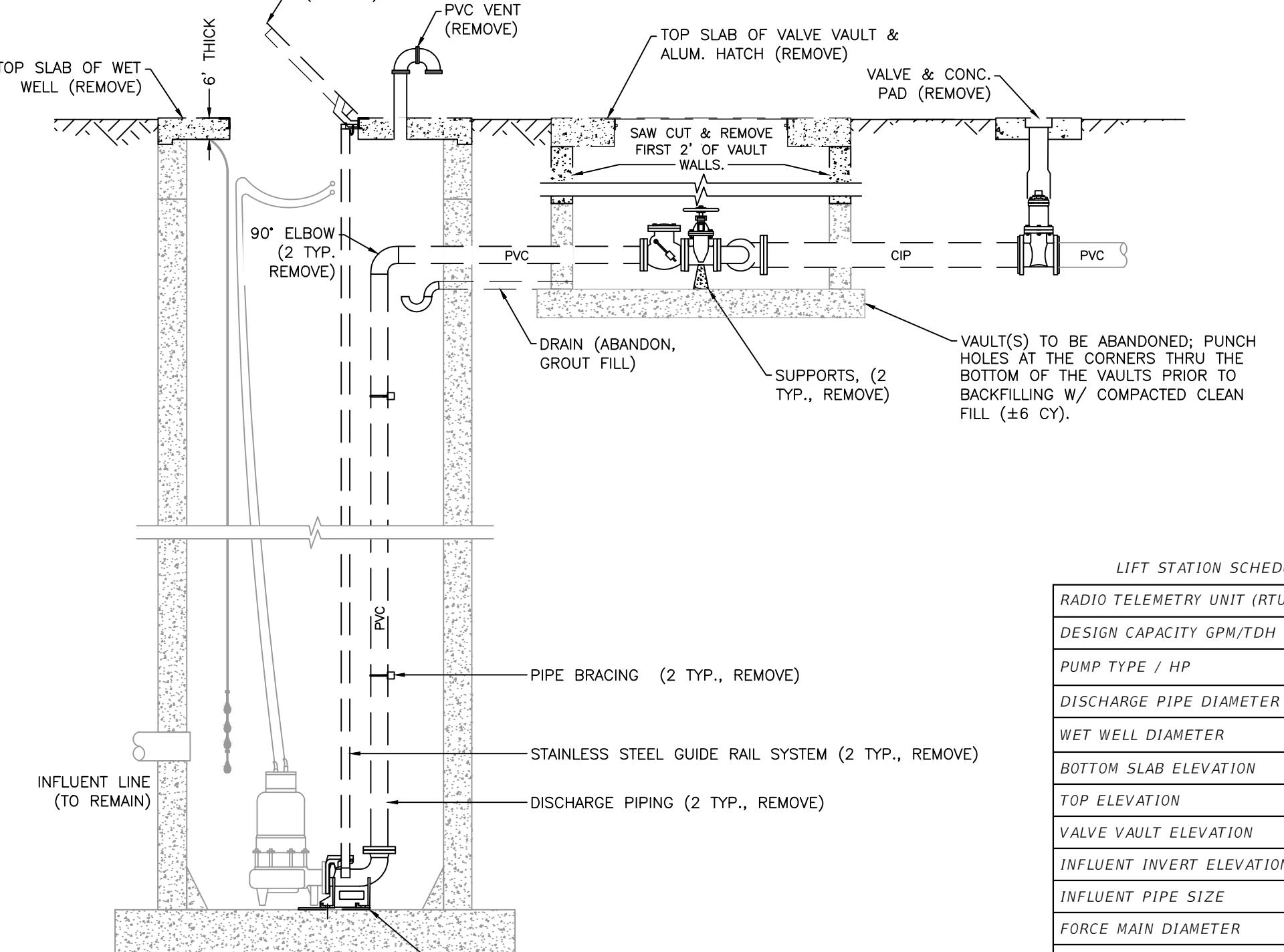
EXISTING

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



PLAN

ELEVATION
EX. 2 PUMP LIFT STATION
NTS

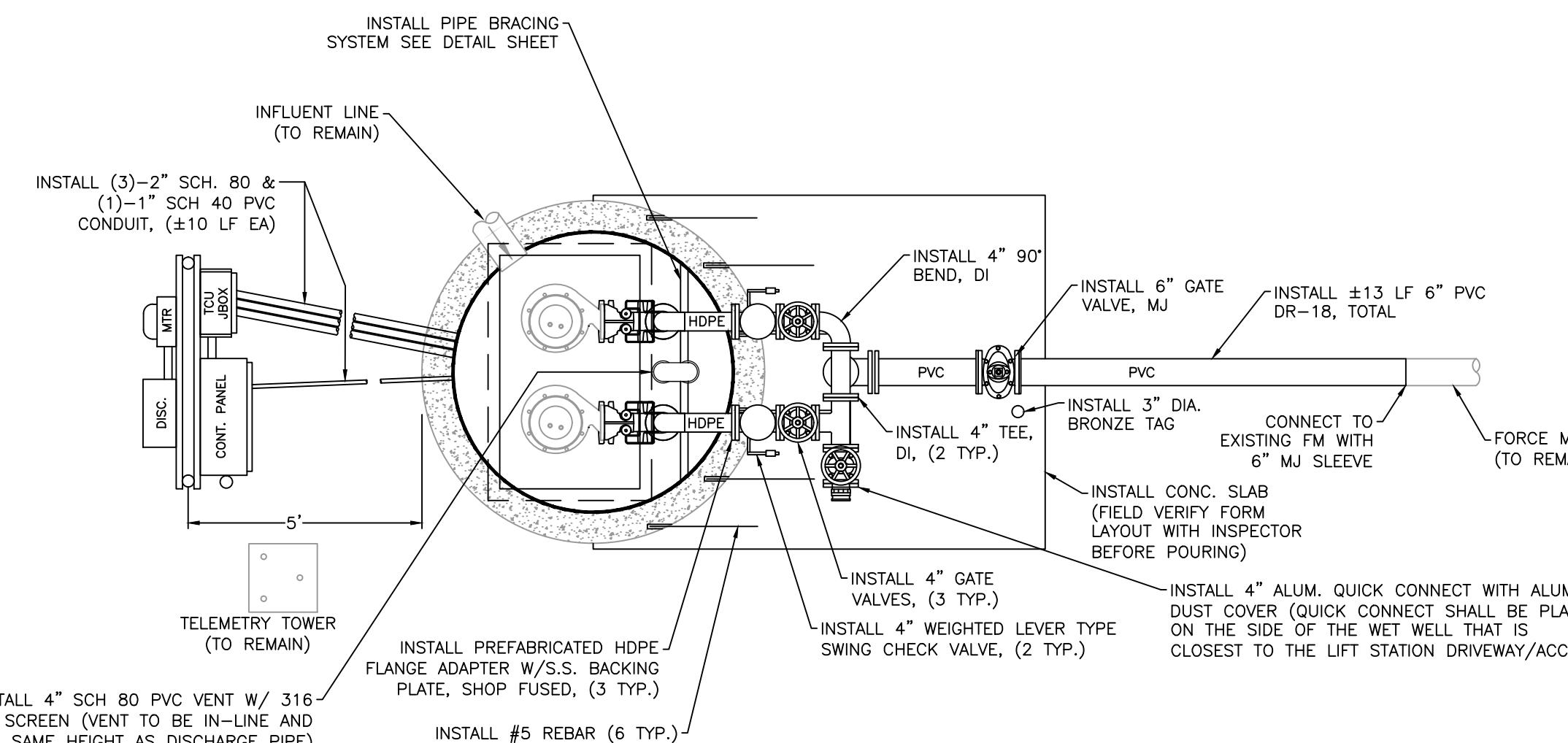
LIFT STATION SCHEDULE (EXISTING)	
RADIO TELEMETRY UNIT (RTU)	463
DESIGN CAPACITY GPM/TDH	150 / 30
PUMP TYPE / HP	BARNES 4SE372 / 3.7
DISCHARGE PIPE DIAMETER	4"
WET WELL DIAMETER	6'
BOTTOM SLAB ELEVATION	14.50
TOP ELEVATION	33.00
VALVE VAULT ELEVATION	33.00
INFLUENT INVERT ELEVATION	18.50
INFLUENT PIPE SIZE	8", PVC
FORCE MAIN DIAMETER	6"
WET WELL VENT PIPE	PVC
ELECT. POWER, VOLTS / PH	240 / 1
ELECT. SERVICE SIZE, AMPS	100
EX. FORCE MAIN TIE-IN	MH
FLOODPLAIN INFORMATION	X

* INFORMATION TAKEN FROM LIFT STATION DATA FILE (LSINFO.XLS 2024) & RECORD DRAWINGS. DATUM OF ELEVATIONS IS UNKNOWN.

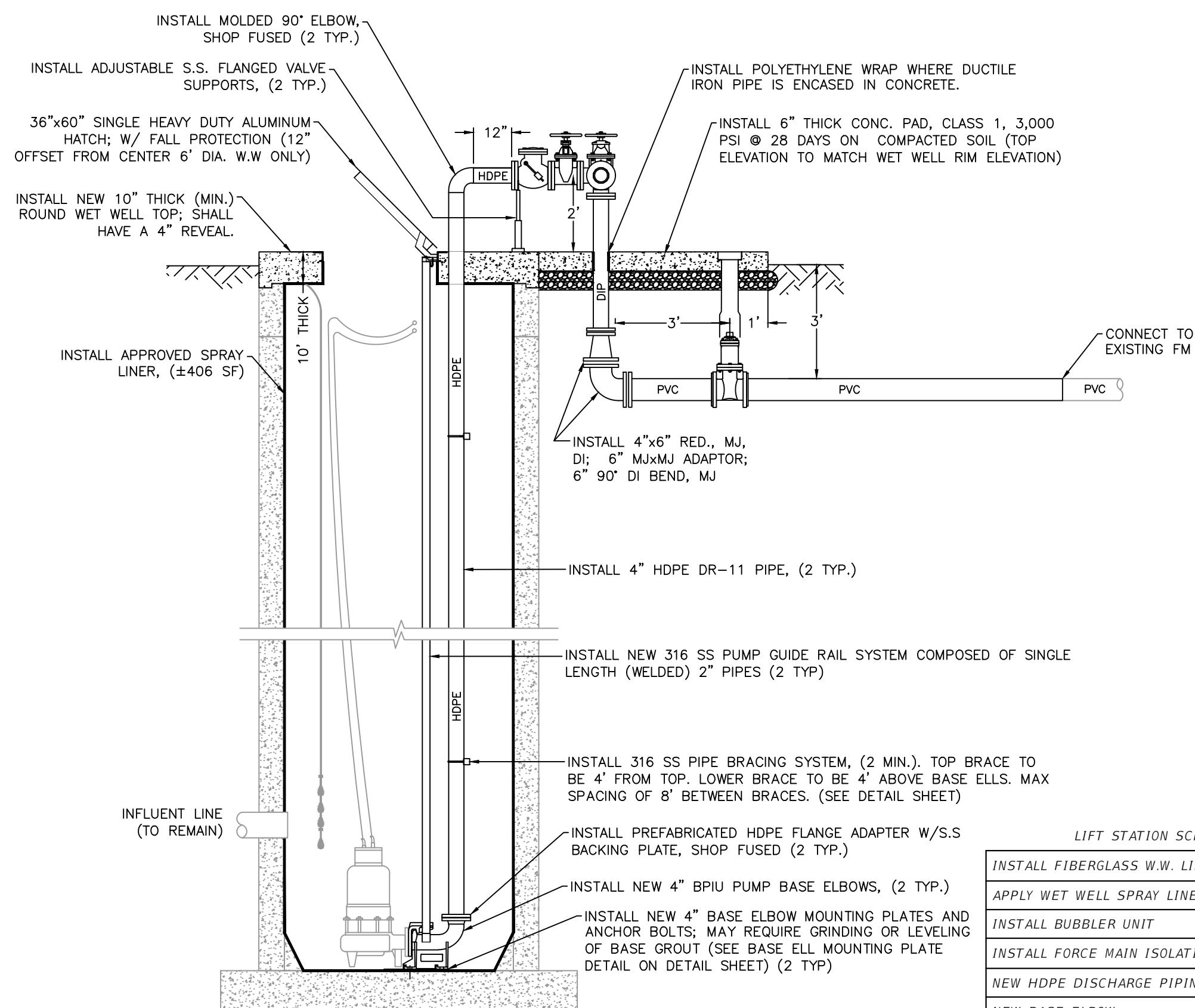
PROPOSED

GENERAL NOTES:

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3. EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONCRETE PAD AND THE WET WELL SHALL BE 1/2" MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213.
4. THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE PAD EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H. & C. SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS. THE ABOVE GROUND VALVE ASSEMBLY & PIPING SHALL BE PAINTED, RUSTOLEUM 7538 HUNTER GREEN. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT OVER-SPRAY OF PAINT ONTO THE CONCRETE SLAB.
5. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM TO BE PAINTED.



PLAN

ELEVATION
EX. 2 PUMP LIFT STATION
NTS

LIFT STATION SCHEDULE (PROPOSED)	
INSTALL FIBERGLASS W.W. LINER	NO
APPLY WET WELL SPRAY LINER	YES
INSTALL BUBBLER UNIT	YES
INSTALL FORCE MAIN ISOLATION VALVE	YES
NEW HDPE DISCHARGE PIPING	YES
NEW BASE ELBOW	YES
MODIFY W.W. TOP ELEVATION BY (ADDING / REMOVING) PORTION OF BARREL SECTION	NO
MODIFY V.V. TOP ELEVATION BY (ADDING / REMOVING) PORTION OF WALL SECTION	NA
INSTALL WET WELL VENT PIPE	YES
INSTALL NEW WATER SERVICE ASSEMBLY	YES, STD
RELOCATE EX. WATER SERVICE ASSEMBLY	NA

NOTES:

1. WATER DISTRIBUTION IS PUBLIC.
2. SEWER COLLECTION IS PUBLIC.
3. LIFT STATION WITHIN COUNTY ROW.

CONSTRUCTION NOTES:

1. MANATEE COUNTY HAS FIRST RIGHTS OF REFUSAL ON ALL EXISTING EQUIPMENT.
2. INSTALL ALL NEW ELECTRICAL SERVICE WITH CONDUIT. IF THE EXISTING ELECTRICAL CONDUIT HAS A MINIMUM DIAMETER OF 2-INCHES OR IS PROPERLY SIZED PER NEC (WHICHEVER IS GREATER), THEN THE EXISTING ELECTRICAL CONDUIT SHALL BE LEFT IN PLACE AND USED. IF NEEDED, THE EXISTING CONDUIT SHALL BE EXTENDED TO THE NEW LOCATION AND INSTALL NEW CONDUCTORS, (± 140 LF).
3. 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.
4. 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.
5. 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 HAZARD CALCULATIONS" SHALL BE PROVIDED.
6. 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 FLUSH.
7. WET WELL CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO INSTALLATION OF NEW SPRAY LINER AND/OR LINER REPAIR.
8. INSTALL A NEW 2-INCH WATER SERVICE LINE AND 12"X2" TAPPING SADDLE; A STANDARD METER/BPA ASSEMBLY; AND A 3/4-INCH HOSE BIBB ASSEMBLY PER COUNTY STANDARDS VIA DIRECT BURY. THE EXISTING WATER MAIN IS LOCATED IN THE ROW ON THE SAME SIDE AS THE LIFT STATION. SINCE THE METER/BPA ASSEMBLY WILL BE LOCATED AS CLOSE AS POSSIBLE TO THE TENDER EASEMENT, RIGHT-OF-WAY LINE IN CLOSEST PROXIMITY TO THE WATER DISTRIBUTION MAIN, ALL ITEMS SHALL BE FIELD LOCATE WITH MANATEE COUNTY PERSONNEL, (± 6 LF).
9. ABANDON EXISTING WATER SERVICE SADDLE AND CORPORATION AT MAIN; INSTALL A BRASS PLUG IN CORPORATION STOP.
10. INSTALL WASHED SHELL & WEED BARRIER (± 85 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.

SATELLITE LIFT STATION R&R 2026 GROUP 1

UNIVERSITY PINES, RTU 463 (REHAB)

SHEET NO.

07 of 13

REVISIONS

DATE DESCRIPTION



1022 26th Avenue East, Bradenton, FL 34208

J. SHEA SHOUN, P.E., STATE OF FLORIDA,
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PUBLIC WORKS DEPARTMENT

PROJECT # 402-5165582 SURVEYED - -

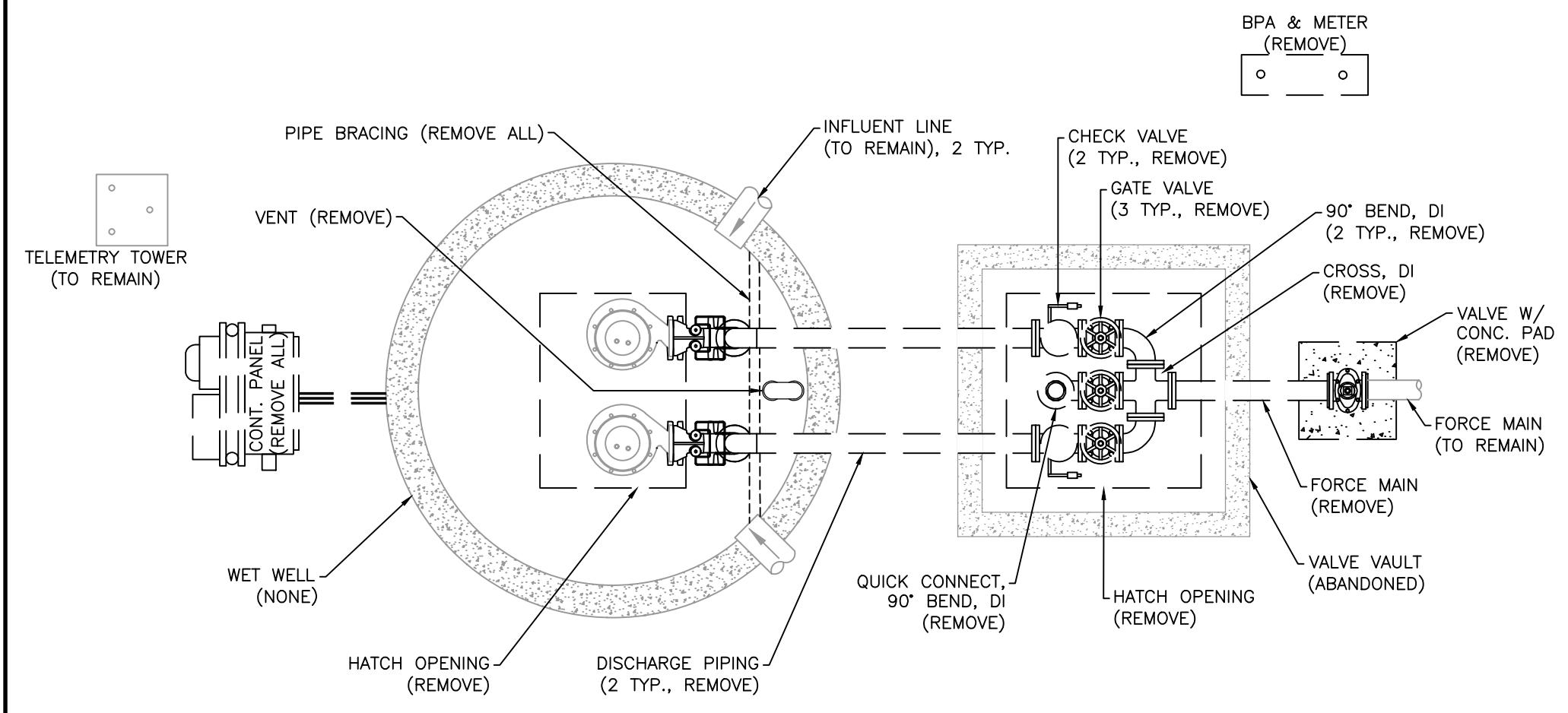
SEC./TWN./RGE 33/35/18 DESIGNED JSS 2/2025

SCALE SEE PLANS DRAWN JSS 2/2025

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EXISTING

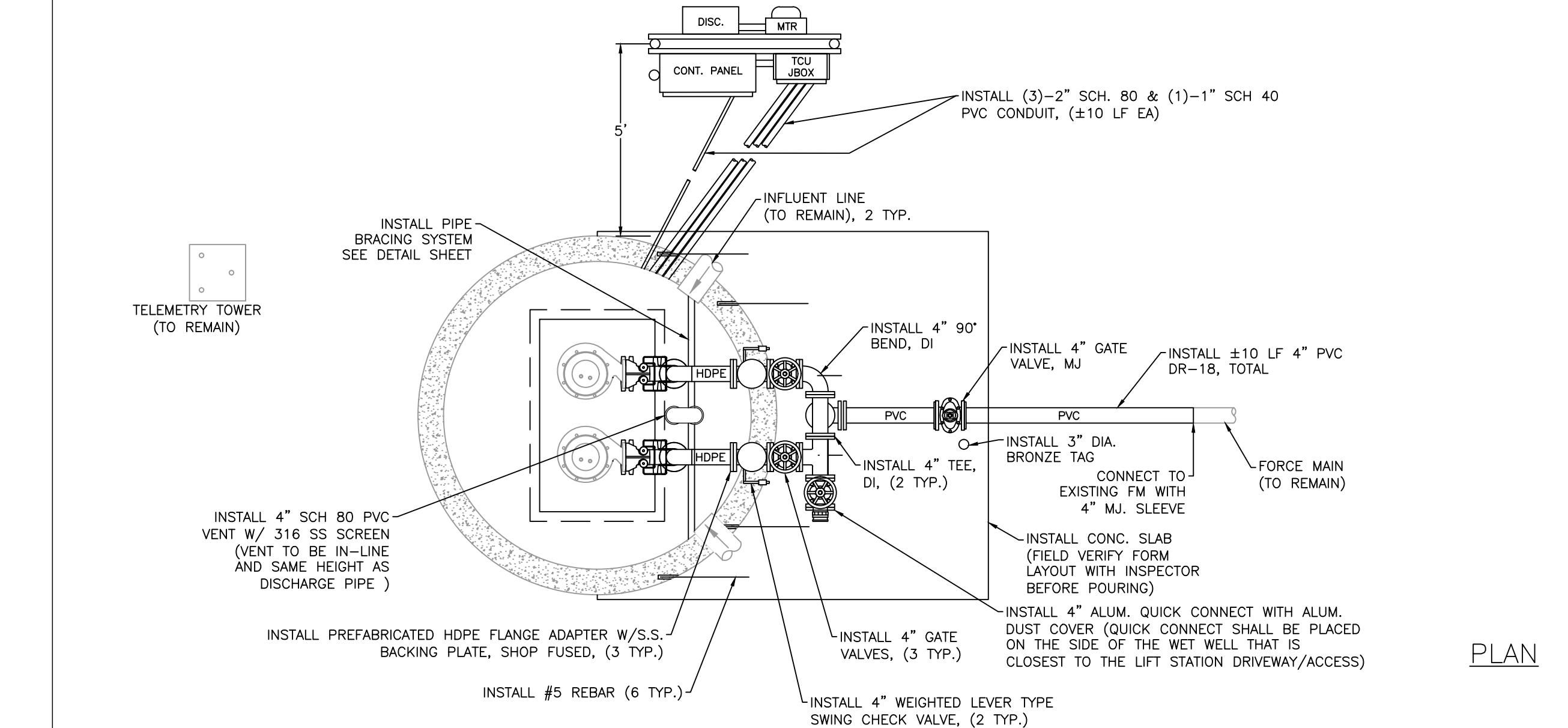
NOTES:
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2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
3. THE CONTRACTOR SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS.
4. REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE 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 EACH, IF NEEDED.
7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING OR DESIGN CONDITIONS.
8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE.



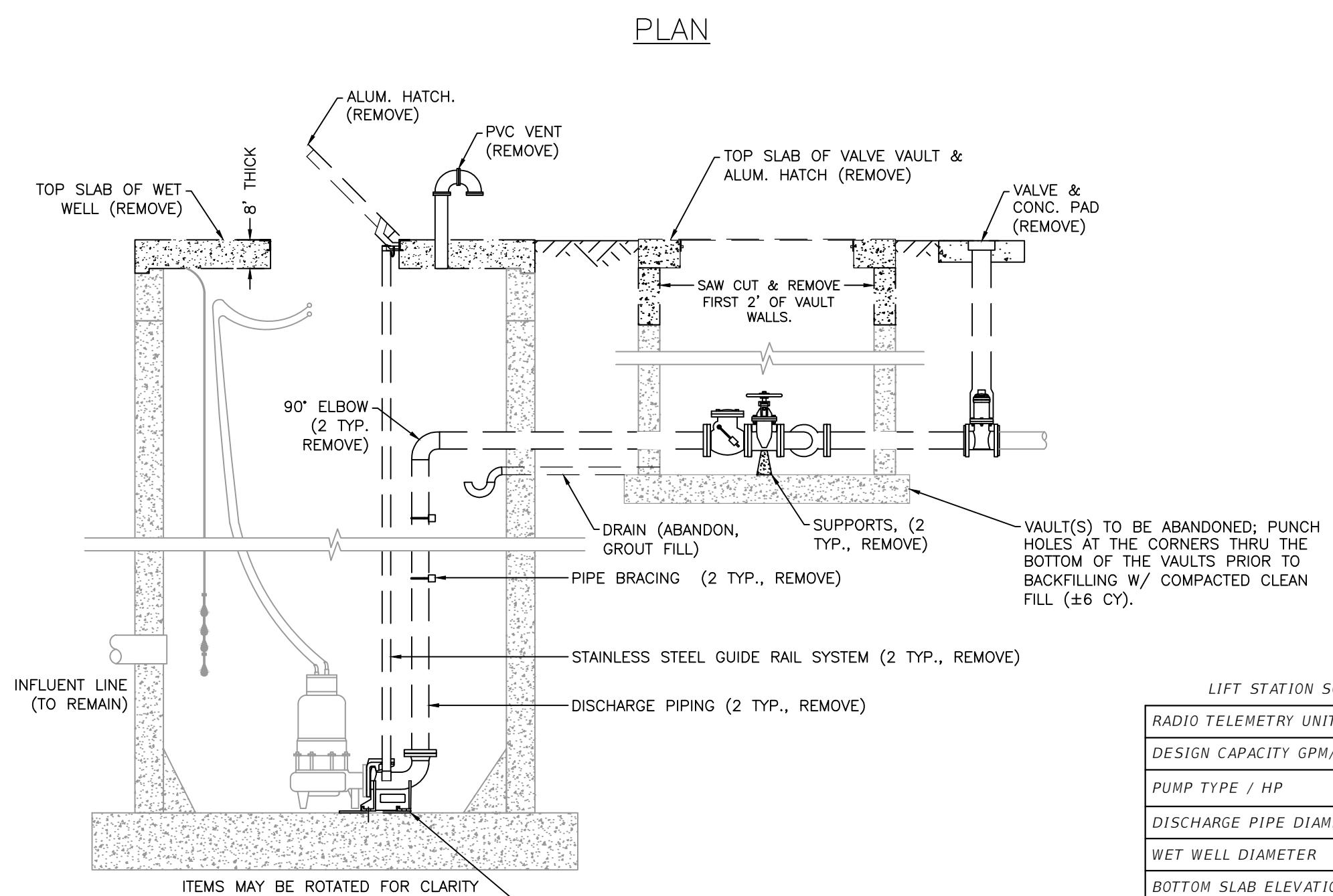
PROPOSED

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- THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL BE NOT MORE THAN 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 CONCRETE PAD AND THE WET WELL SHALL BE 1/2" MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213.
- 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.



PLAN



LIFT STATION SCHEDULE (EXISTING)

RADIO TELEMETRY UNIT (RTU)	464
DESIGN CAPACITY GPM/TDH	150 / 59
PUMP TYPE / HP	HOMA AHX434 / 10.4
DISCHARGE PIPE DIAMETER	4"
WET WELL DIAMETER	8'
BOTTOM SLAB ELEVATION	0.00**
TOP ELEVATION	16.00**
VALVE VAULT ELEVATION	UNK
INFLUENT INVERT ELEVATION	UNK
INFLUENT PIPE SIZE	(2)-8" PVC
FORCE MAIN DIAMETER	4"
WET WELL VENT PIPE	PVC
ELECT. POWER, VOLTS / PH	240 / 3
ELECT. SERVICE SIZE, AMPS	150
EX. FORCE MAIN TIE-IN	FM
FLOODPLAIN INFORMATION	X

* INFORMATION TAKEN FROM LIFT STATION DATA FILE (LSINFO.XLS 2024) & RECORD DRAWINGS.
DATUM OF ELEVATIONS IS UNKNOWN.

ELEVATION
EX. 2 PUMP LIFT STATION
NTS

J. SHEA SHOUN, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 60923.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
J. SHEA SHOUN, P.E. ON THE DATE INDICATED HERE.
PRINTED COPIES OF THIS DOCUMENT ARE NOT
CONSIDERED SIGNED AND SEALED AND THE SIGNATURE
MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



1022 26th Avenue East, Bradenton, FL 34208

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

PROJECT #	402-5165583	SURVEYED	-	-
SEC./TWN./RGE	33/35/18	DESIGNED	JSS	2/2025
SCALE	SEE PLANS	DRAWN	JSS	2/2025

Originally plotted by Shea Shoun at 1:1 scale on 10/20/2025 at 2:40:26 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using CIP-SLS R&R STB. File Name: SLS R&R 2026-1.DWG

CONSTRUCTION NOTES:

- MANATEE COUNTY HAS FIRST RIGHTS OF REFUSAL ON ALL EXISTING EQUIPMENT.
- INSTALL ALL NEW ELECTRICAL SERVICE WITH CONDUIT. IF THE EXISTING ELECTRICAL CONDUIT HAS A MINIMUM DIAMETER OF 2-INCHES OR IS PROPERLY SIZED PER NEC (WHICHEVER IS GREATER), THEN THE EXISTING ELECTRICAL CONDUIT SHALL BE LEFT IN PLACE AND USED. IF NEEDED, THE EXISTING CONDUIT SHALL BE EXTENDED TO THE NEW LOCATION AND INSTALL NEW CONDUCTORS, ($\pm 60\text{ LF}$).
- 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 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 FLUSH.
- 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; 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. ALL ITEMS SHALL BE FIELD LOCATE WITH MANATEE COUNTY PERSONNEL, ($\pm 60\text{ LF}$).
- ABANDON EXISTING WATER SERVICE SADDLE AND CORPORATION STOP.
- INSTALL A 12-FT WIDE 6-INCH THICK REINFORCE CONCRETE STANDARD DRIVEWAY. THE DRIVEWAY SHALL NOT EXCEED A 2% CROSS-SLOPE THRU THE PORTION THAT ALIGNS WITH THE EXISTING ADJACENT SIDEWALKS. EXACT LOCATION AND LAYOUT SHALL BE DETERMINED IN THE FIELD WITH COUNTY PERSONNEL, ($\pm 60\text{ SY}$).
- REGRADE SITE TO ALLOW FOR A POSITIVE DRAINAGE SLOPE AWAY FROM THE LIFT STATION AREA TOWARDS THE SURROUNDING DITCHES. MAXIMUM OF 1% SLOPE. WHERE APPROPRIATE, SOD AFFECTED AREAS.

NOTES:
1. WATER DISTRIBUTION IS PUBLIC.
2. SEWER COLLECTION IS PUBLIC.
3. LIFT STATION WITHIN FENCED AREA OFF COUNTY ROW.

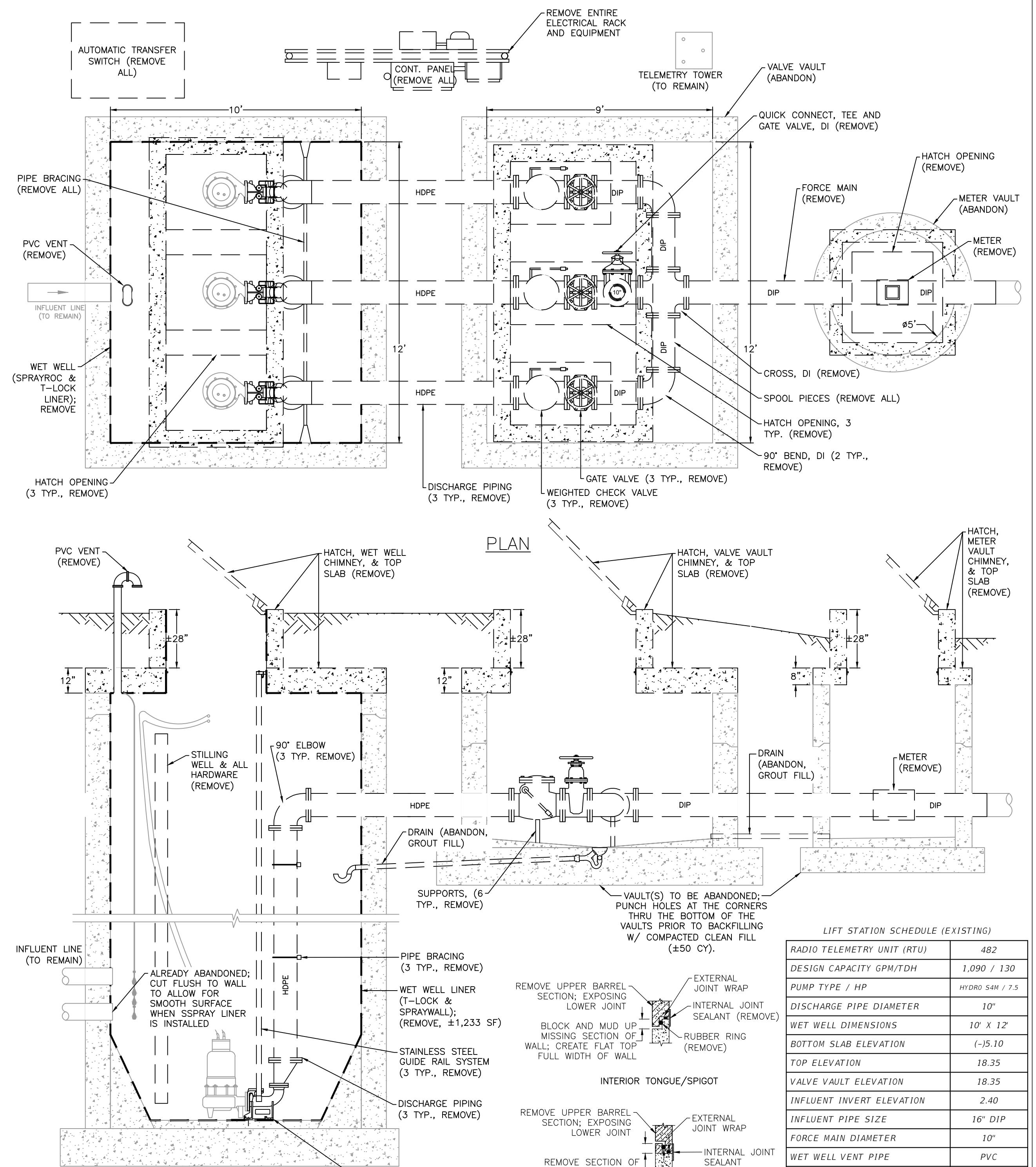
SATELLITE LIFT STATION R&R
2026 GROUP 1
GLENBROOKE, RTU 464 (REHAB)

SHEET NO.

08 of 13

EXISTING

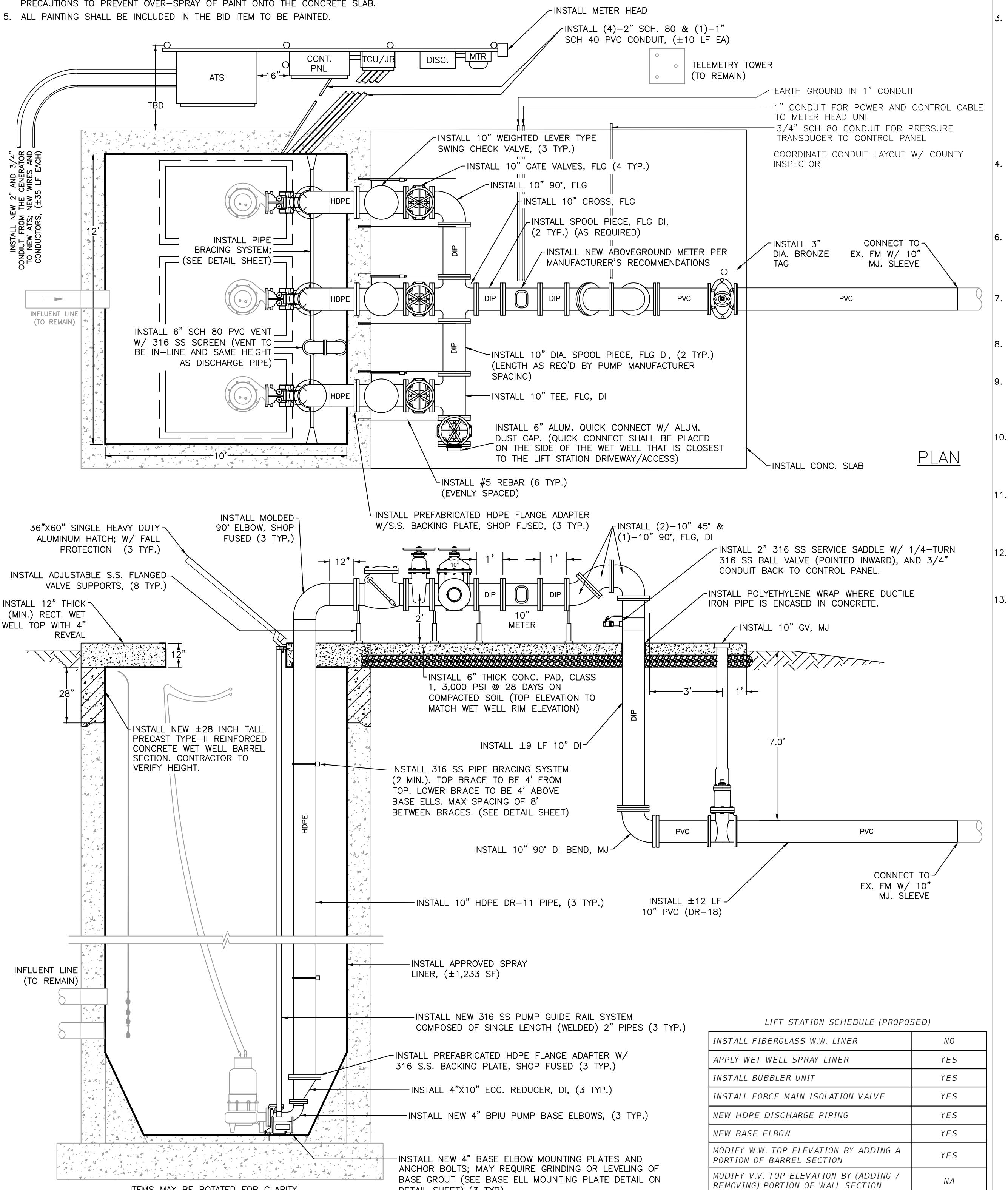
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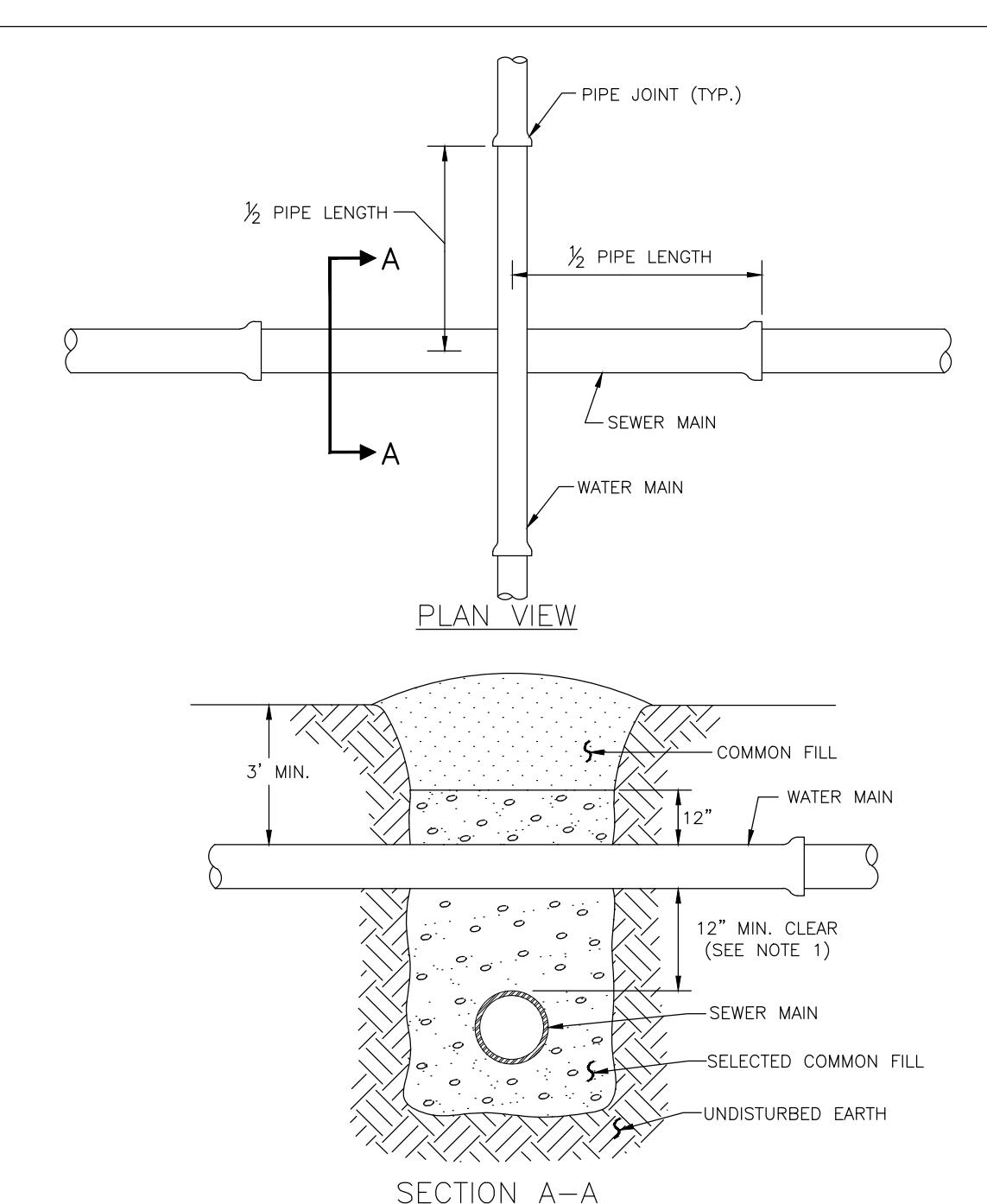
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2. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL BE NOT MORE THAN 1/4" UNDER A TEN FOOT (10') STRAIGHTEDGE, NOT MORE THAN 1/8" ON A FIVE FOOT (5') TRANSVERSE SECTION. THE EDGE OF THE CONCRETE PAD SHALL BE CAREFULLY FINISHED WITH AN EDGING TOOL HAVING A RADIUS OF 1/2".
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5. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM TO BE PAINTED.



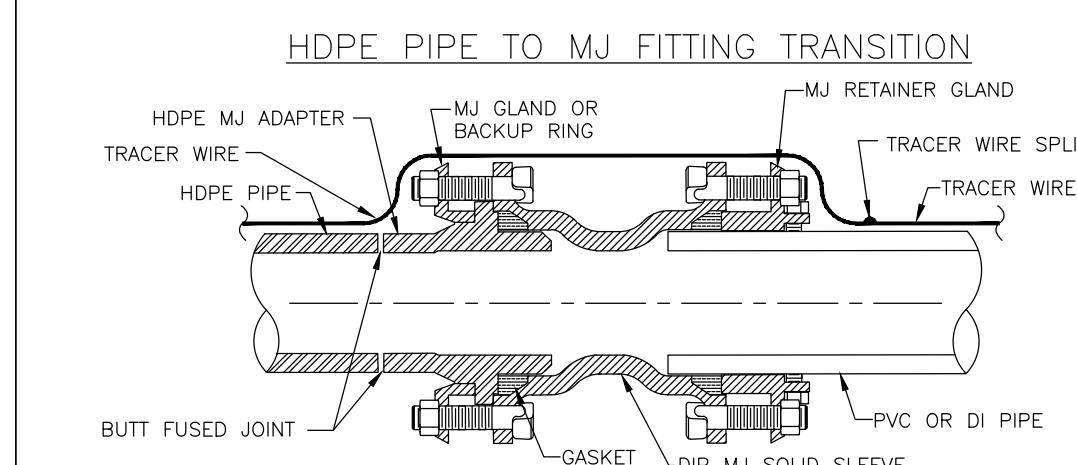
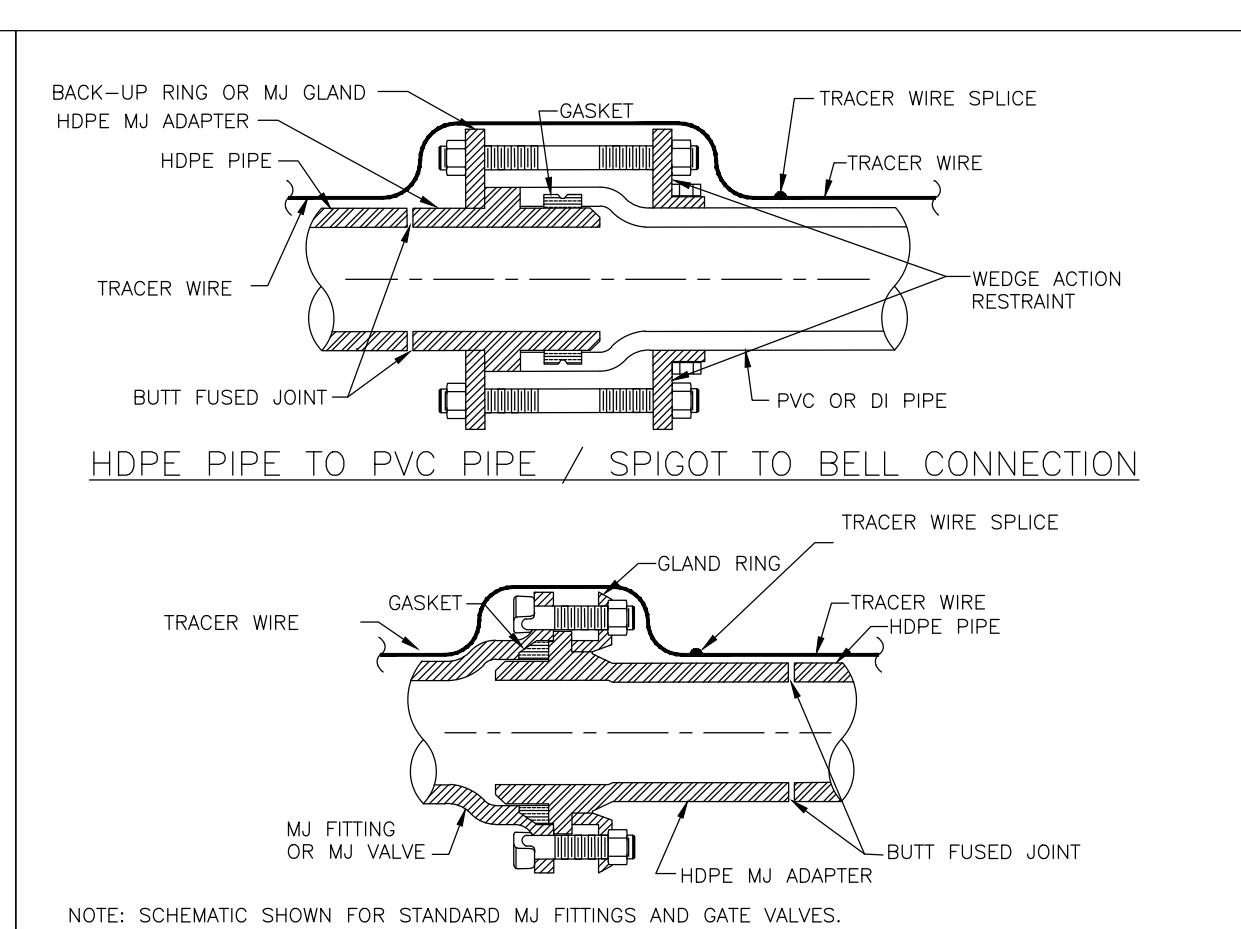
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- CONTRACTOR SHALL COORDINATE WITH PPL TO INSTALL A NEW HANDHOLE AT THE BASE OF THE CONCRETE POWER POLE; REMOVE EXISTING WEATHERHEAD ON WOODEN POLE.
- REMOVE AND INSTALL ALL NEW ONE-SIDED ELECTRICAL STRUCTURE (RACK), AN ATS ENCLOSURE, A CONTROL PANEL 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 ANY SHALL BE INCLUDED WITH THE CONTROL PANEL.
- THE LIFT STATION SITE HAS AUXILIARY EQUIPMENT. INSTALL THE FOLLOWING ADDITIONAL BREAKER(S) IN THE CONTROL PANEL:
 - EMERGENCY BACK-UP GEN/PUMP: (3)-20A 120V (BATTERY CHARGER, WATER JACKET HEATER, SPACER HEATER).
 - FLOW METER: (1)-15A 120V
- 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 CAS 3-4 FEET INTO THE WET WELL AND VALVE ASSEMBLY CONCRETE PAD TO ENSURE THE TOPS OF THE WET WELL AND VALVE PAD WILL REMAIN FLUSH.
- WET WELL CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO INSTALLATION OF NEW SPRAY LINER AND/OR LINER REPAIR.
- INSTALL NEW 28-32 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 MATCH EXISTING THICKNESS.
- HAUL IN AND COMPACT CLEAN FILL DIRT TO RAISE AND LEVEL THE SITE AROUND THE WET WELL AND ABOVE-GROUND VALVE ASSEMBLY CONCRETE PAD, (±32 CY). LIMITS OF FILL SHALL BE COORDINATE WITH THE COUNTY INSPECTOR PRIOR TO COMMENCING WORK.
- INSTALL WASHED SHELL & WEED BARRIER (±150 SF). 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.
- REGRADE SITE TO ALLOW FOR A POSITIVE DRAINAGE SLOPE AWAY FROM THE LIFT STATION AREA TOWARDS THE SURROUNDING DITCHES. MAXIMUM OF 1% SLOPE. WHERE APPROPRIATE, SOIL AFFECTED AREAS.
- THIS LIFT STATION IS LOCATED IN A FLOOD ZONE (AE) WITH A BASE FLOOD ELEVATION, 17.8. THEREFORE, THE MINIMUM FLOOD PROTECTION LEVEL IS 18.8. ALL NEWLY INSTALLED ELECTRICAL EQUIPMENT AND ENCLOSURES SHALL BE ABOVE THE FLOOD PROTECTION LEVEL.



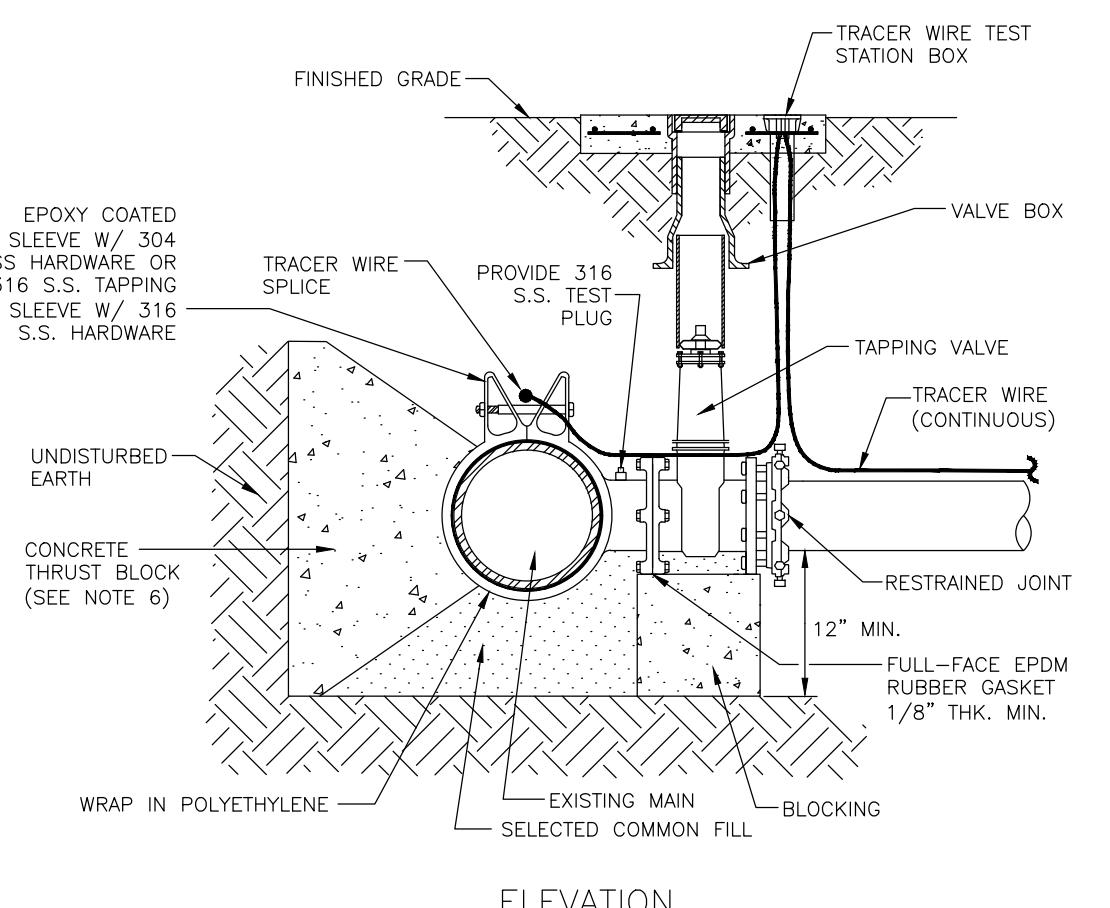
NOTES:
 1. CLEARANCE MAY BE REDUCED TO 6" FOR GRAVITY SEWER WHERE WATER MAIN IS DUCTILE IRON.
 2. PIPE SECTIONS SHALL BE FULL-LENGTH AND SHALL BE ADJUSTED HORIZONTALLY, SO THAT THE CROSSING IS AT EACH PIPE SECTION'S MIDPOINT REGARDLESS OF THE VERTICAL CLEARANCE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPICAL NEW WATER & SEWER LINE CROSSING	UG-2
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		



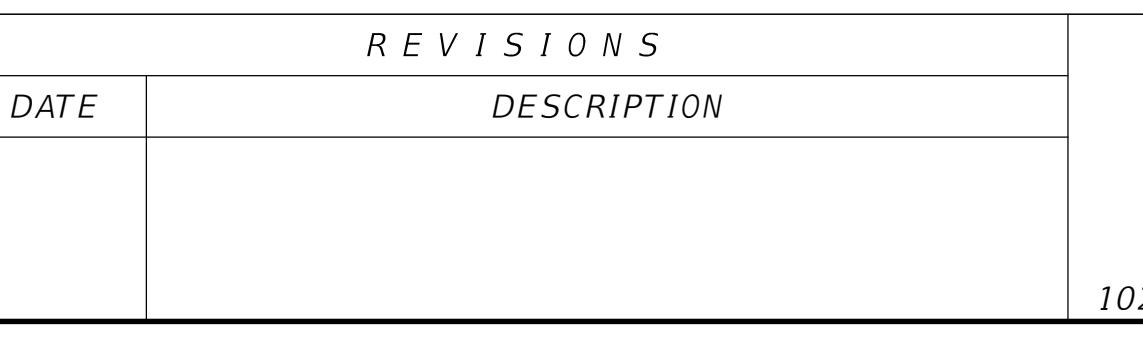
NOTES:
 1. ONE TRACER WIRE SHALL BE SECURED TO THE PIPE FOR ALL TYPES OF PIPELINE INSTALLATIONS.
 2. CONTRACTOR SHALL NOT USE MECHANICAL MEANS TO ALIGN PIPE AND FITTINGS FOR ATTACHMENT. THE PIPE SHALL NOT BE "SPRING" LOADED.
 10. ALL THREE "LEGS" OF TEES SHALL BE RESTRAINED PER THE STATED LENGTH IN THE TABLE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		HDPE TO PVC OR DI PIPE ADAPTER	UG-6
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		



NOTES:
 1. PRIOR TO TAPPING, CONTRACTOR TO DEMONSTRATE 60 MINUTE HYDROSTATIC TEST OF THE TAPPING SLEEVE AND VALVE WITH NO LOSS OF 180 PSI PRESSURE FOR WATER AND RECLAIMED WATER.
 2. ALL FITTINGS TO BE WRAPPED WITH 20 MIL POLYETHYLENE WRAP AT THRUST BLOCK.
 3. ALL TAPS ON CONCRETE WATER MAINS AND LARGER THAN 12" ARE TO BE MADE BY A MANATEE COUNTY APPROVED TAPPING COMPANY. ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR.
 4. ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE OF 10' (11" MAIN DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS GREATER) FROM A JUNCTION OR FITTING, OR 10' FROM THE TAP PIPE).
 5. CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK IN AND A BACK-HOE TO LOWER TAPPING MACHINE INTO THE HOLE.
 6. WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES".
 7. TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.
 8. SHOULD THE TRACER WIRE STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
 9. SEE SECTION 1.1.1 TAPPING SLEEVES AND VALVES IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.
 10. "W" OR "R" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR Routed INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "R" AND THE FOOTAGE FROM THE DISC TO THE VALVE USING A 1/8" X 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.
 11. SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TAPPING SLEEVE AND VALVE (WATER/RECLAIM)	UW-3
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		



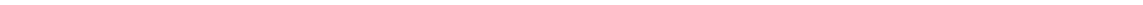
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 11. SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPICAL SERVICE CONNECTION	UW-23
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		



NOTES:
 1. PRIOR TO TAPPING, CONTRACTOR TO DEMONSTRATE 60 MINUTE HYDROSTATIC TEST OF THE TAPPING SLEEVE AND VALVE WITH NO LOSS OF 180 PSI PRESSURE FOR WATER AND RECLAIMED WATER.
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 11. SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		VALVE, BOX, COVER AND TAG	US-14
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		



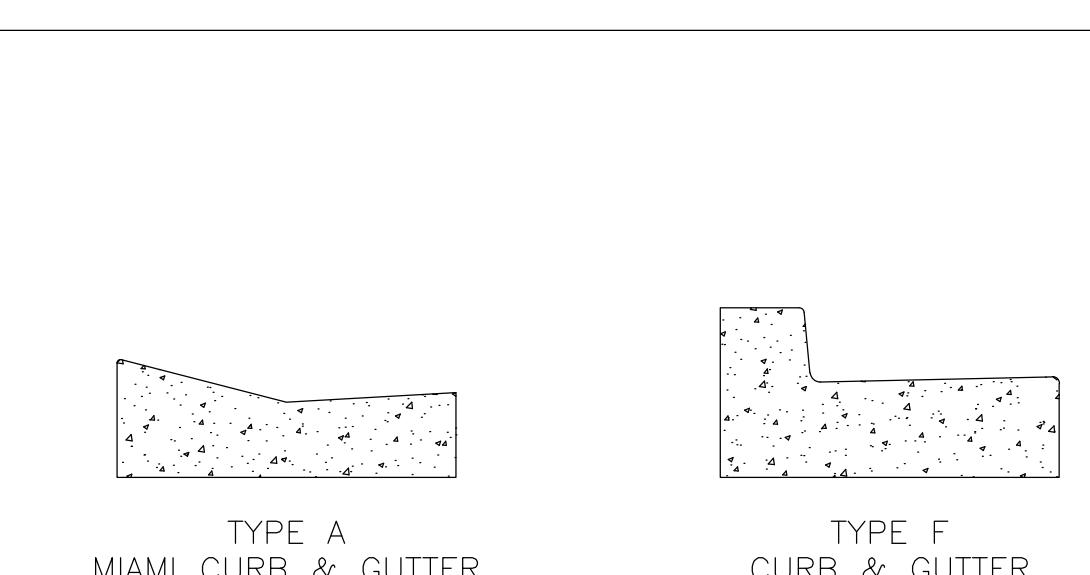
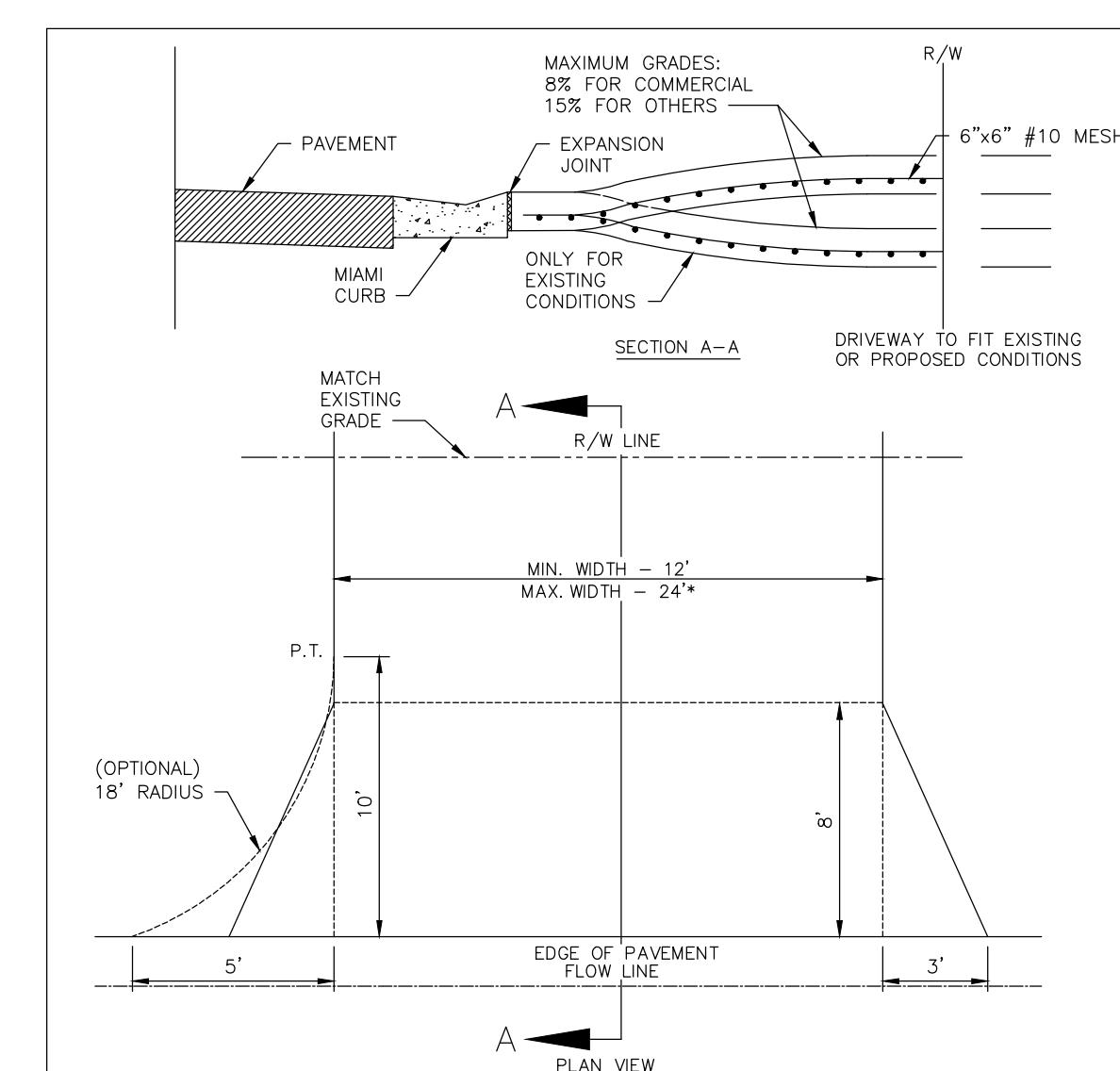
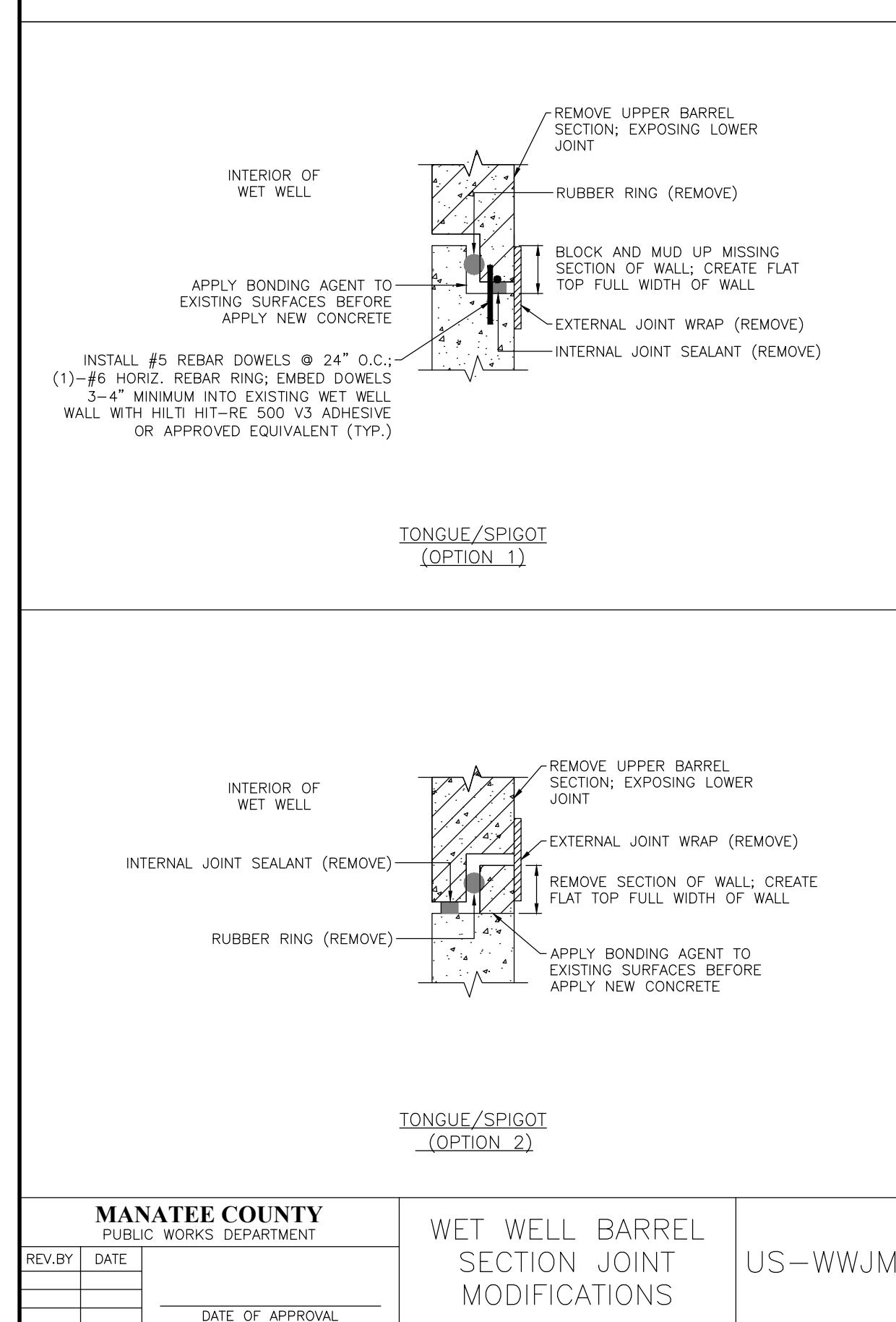
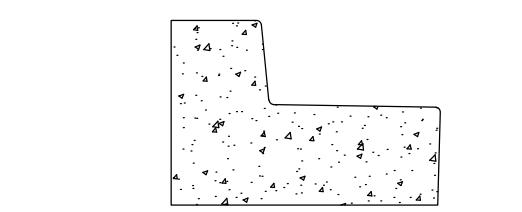
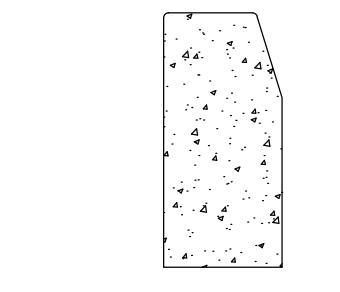
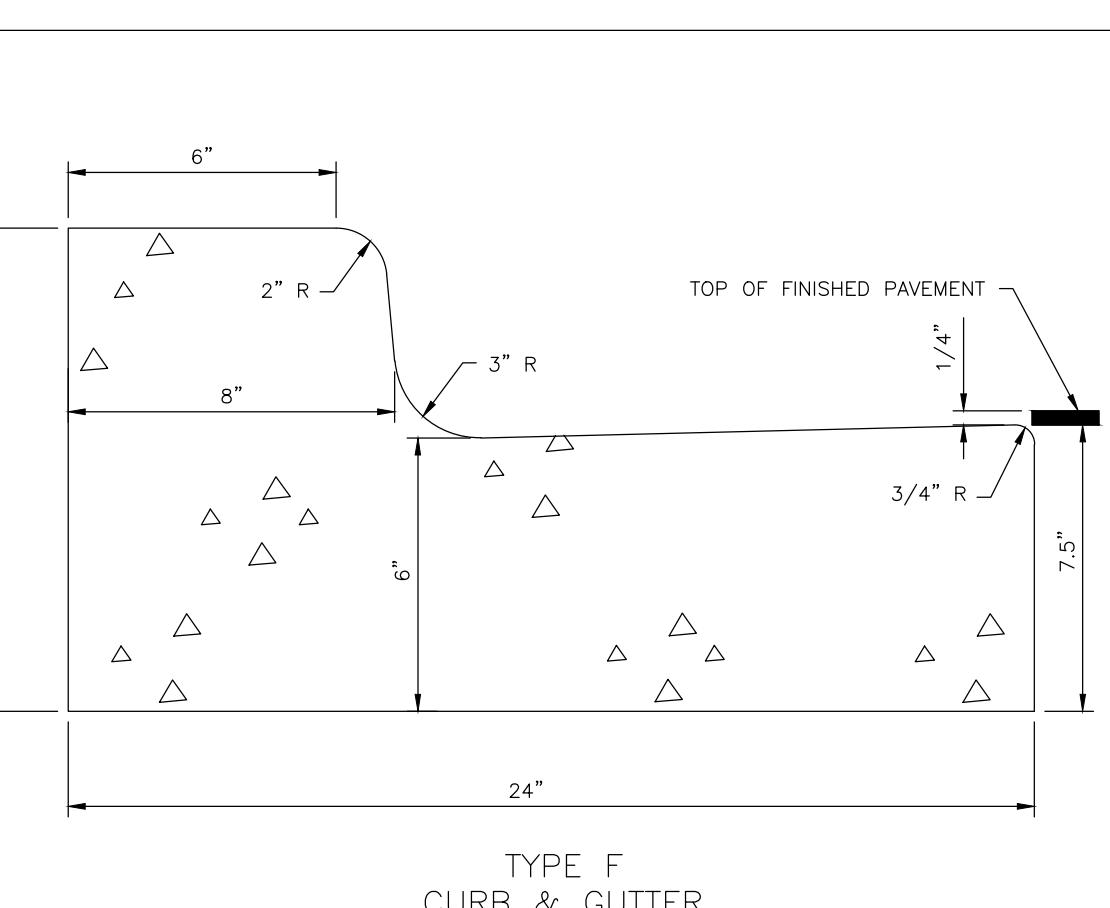
NOTES:
 1. PRIOR TO TAPPING, CONTRACTOR TO DEMONSTRATE 60 MINUTE HYDROSTATIC TEST OF THE TAPPING SLEEVE AND VALVE WITH NO LOSS OF 180 PSI PRESSURE FOR WATER AND RECLAIMED WATER.
 2. ALL FITTINGS TO BE WRAPPED WITH 20 MIL POLYETHYLENE WRAP AT THRUST BLOCK.
 3. ALL TAPS ON CONCRETE WATER MAINS AND LARGER THAN 12" ARE TO BE MADE BY A MANATEE COUNTY APPROVED TAPPING COMPANY. ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR.
 4. ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE OF 10' (11" MAIN DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS GREATER) FROM A JUNCTION OR FITTING, OR 10' FROM THE TAP PIPE).
 5. CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK IN AND A BACK-HOE TO LOWER TAPPING MACHINE INTO THE HOLE.
 6. WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES".
 7. TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.
 8. SHOULD THE TRACER WIRE STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
 9. SEE SECTION 1.1.1 TAPPING SLEEVES AND VALVES IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.
 10. "W" OR "R" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR Routed INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "R" AND THE FOOTAGE FROM THE DISC TO THE VALVE USING A 1/8" X 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.
 11. SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		5/8" WATER METER & BACKFLOW PREVENTION ASSEMBLY FOR LIFT STATIONS	US-21
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		

NOTES:
 1. PRIOR TO TAPPING, CONTRACTOR TO DEMONSTRATE 60 MINUTE HYDROSTATIC TEST OF THE TAPPING SLEEVE AND VALVE WITH NO LOSS OF 180 PSI PRESSURE FOR WATER AND RECLAIMED WATER.
 2. ALL FITTINGS TO BE WRAPPED WITH 20 MIL POLYETHYLENE WRAP AT THRUST BLOCK.
 3. ALL TAPS ON CONCRETE WATER MAINS AND LARGER THAN 12" ARE TO BE MADE BY A MANATEE COUNTY APPROVED TAPPING COMPANY. ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR.
 4. ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE OF 10' (11" MAIN DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS GREATER) FROM A JUNCTION OR FITTING, OR 10' FROM THE TAP PIPE).
 5. CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK IN AND A BACK-HOE TO LOWER TAPPING MACHINE INTO THE HOLE.
 6. WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES".
 7. TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.
 8. SHOULD THE TRACER WIRE STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
 9. SEE SECTION 1.1.1 TAPPING SLEEVES AND VALVES IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.
 10. "W" OR "R" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR Routed INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "R" AND THE FOOTAGE FROM THE DISC TO THE VALVE USING A 1/8" X 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.
 11. SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		2" WATER METER AND BACKFLOW PREVENTION ASSEMBLY FOR LIFT STATIONS	US-22
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		

NOTES:
 1. PRIOR TO TAPPING, CONTRACTOR TO DEMONSTRATE 60 MINUTE HYDROSTATIC TEST OF THE TAPPING SLEEVE AND VALVE WITH NO LOSS OF 180 PSI PRESSURE FOR WATER AND RECLAIMED WATER.
 2. ALL FITTINGS TO BE WRAPPED WITH 20 MIL POLYETHYLENE WRAP AT THRUST BLOCK.
 3. ALL TAPS ON CONCRETE WATER MAINS AND LARGER THAN 12" ARE TO BE MADE BY A MANATEE COUNTY APPROVED TAPPING COMPANY. ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR.
 4. ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE OF 10' (11" MAIN DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS GREATER) FROM A JUNCTION OR FITTING, OR 10' FROM THE TAP PIPE).
 5. CONTRACT

TYPE A
MIAMI CURB & GUTTER
DETAIL 201.1TYPE F
CURB & GUTTER
DETAIL 201.2TYPE AB
MODIFIED CURB & GUTTER
DETAIL 201.3TYPE D
CURB
DETAIL 201.4

NOTES:
 A. CLASS 1 CONCRETE 3,000 PSI AT 28 DAYS.
 B. CURB AND GUTTER SHALL MEET FDOT STANDARD SPECIFICATIONS AND FDOT STANDARD PLANS, INDEX 520-001, LATEST EDITION.

NOTES:
 A. ALL CURB AND GUTTER SHALL HAVE A 1/8" TO 1/4" CONTRACTION JOINT AT 10' CENTERS.
 B. ALL CURB AND GUTTER SHALL BE CONSTRUCTED IN COMPLIANCE WITH FDOT STANDARD PLANS, INDEX NO. 520-001, LATEST EDITION.
 C. TOP OF FINISHED PAVEMENT SHALL BE 1/4" ABOVE LIP OF GUTTER ON THE LOW SIDE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	URBAN DRIVES	101.3
REV.BY	DATE	
		DATE OF B.O.C.C. APPROVAL

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	CURB & GUTTER CONTROL SHEET	201.0
REV.BY	DATE	
		DATE OF B.O.C.C. APPROVAL

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TYPE F CURB & CUTTER	201.2
REV.BY	DATE	
		DATE OF B.O.C.C. APPROVAL

REVISIONS	
DATE	DESCRIPTION



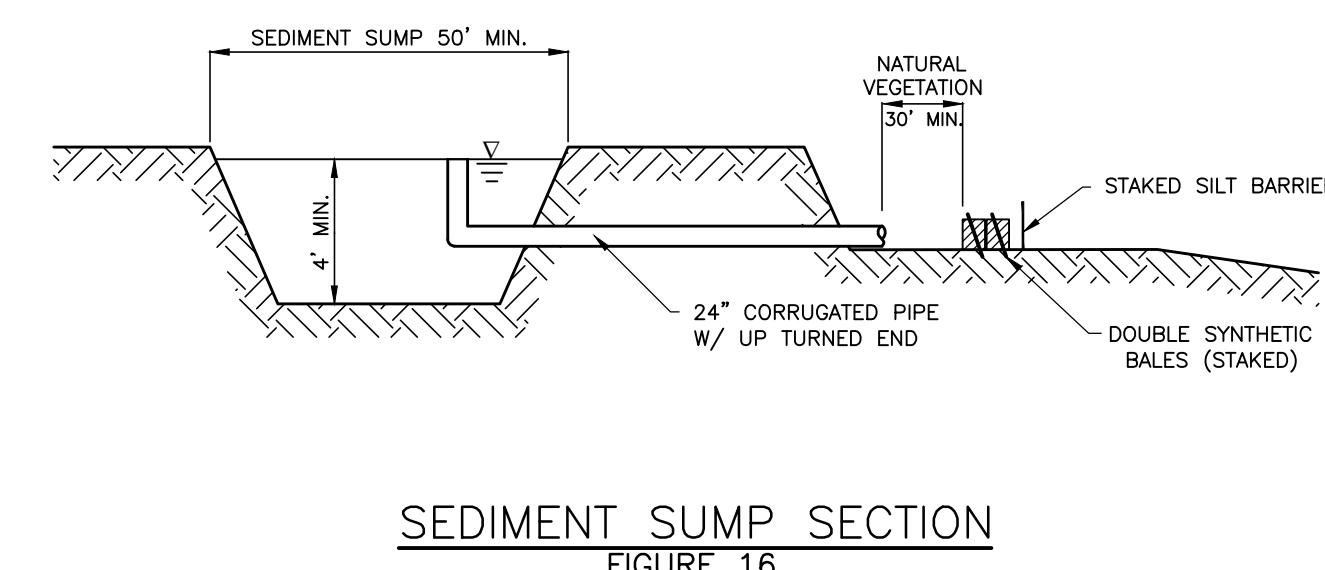
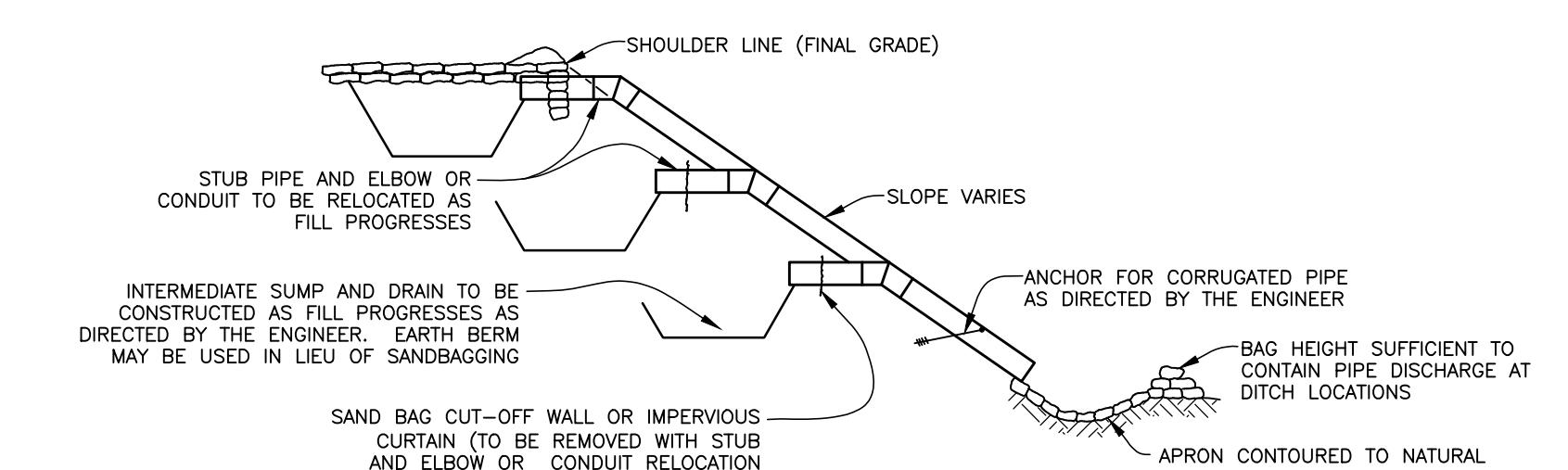
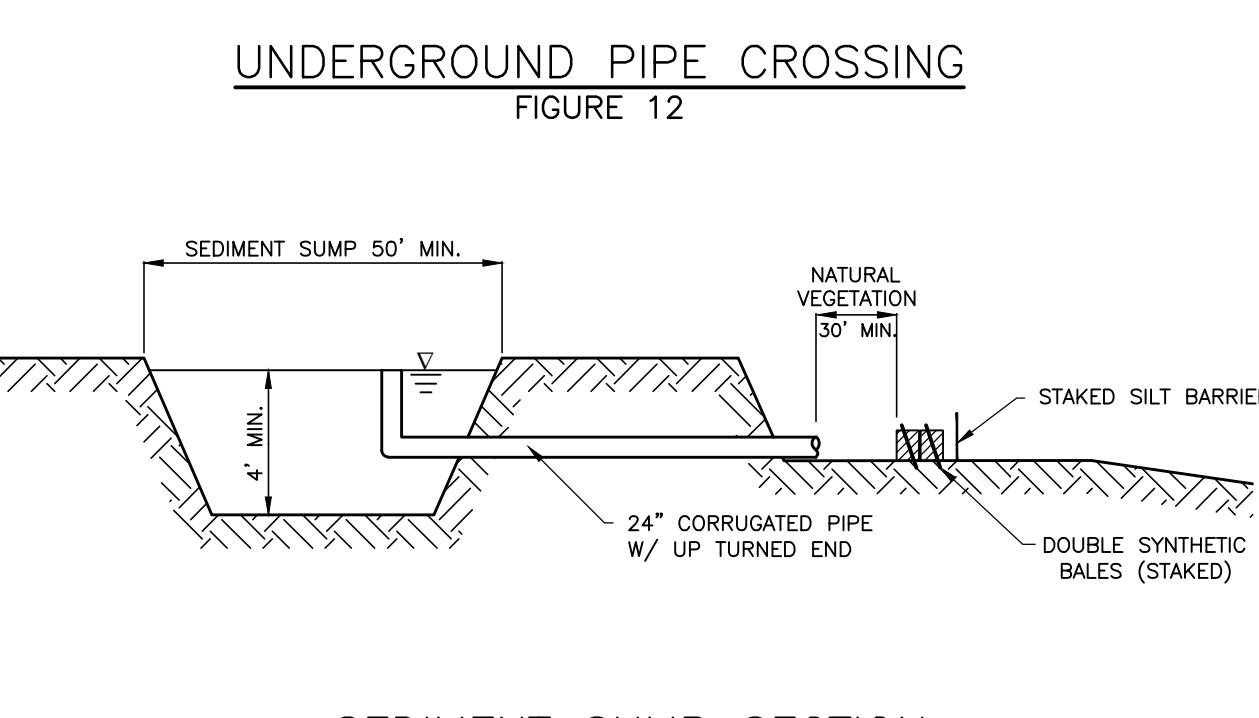
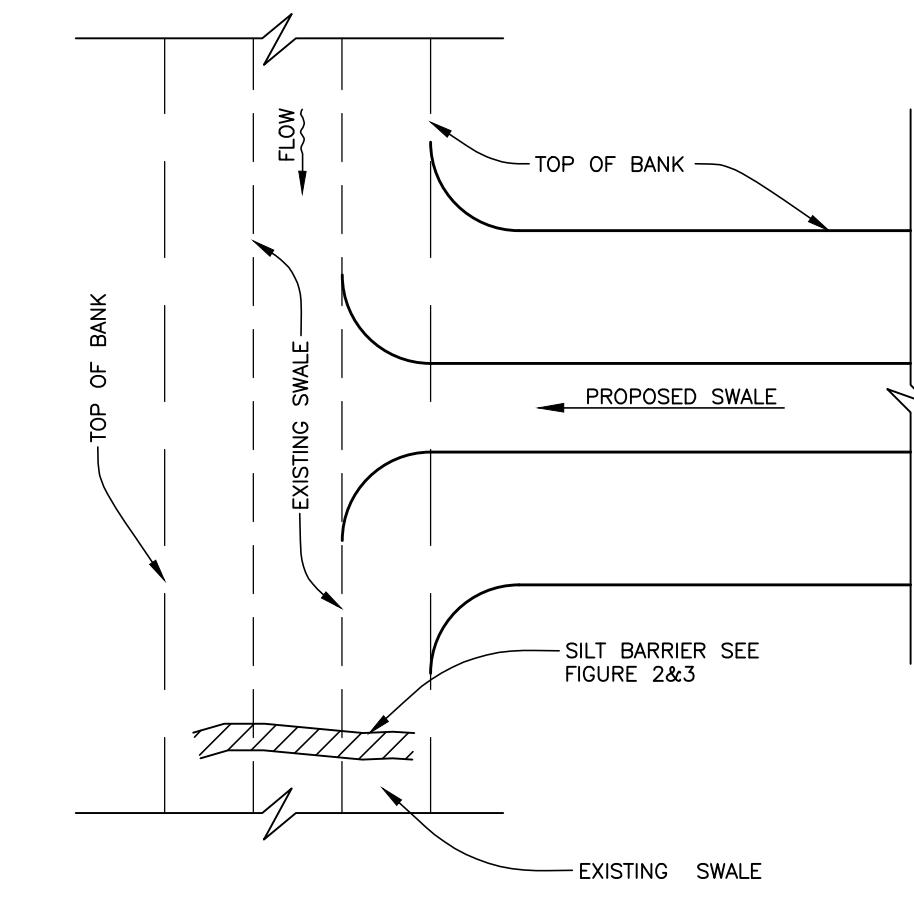
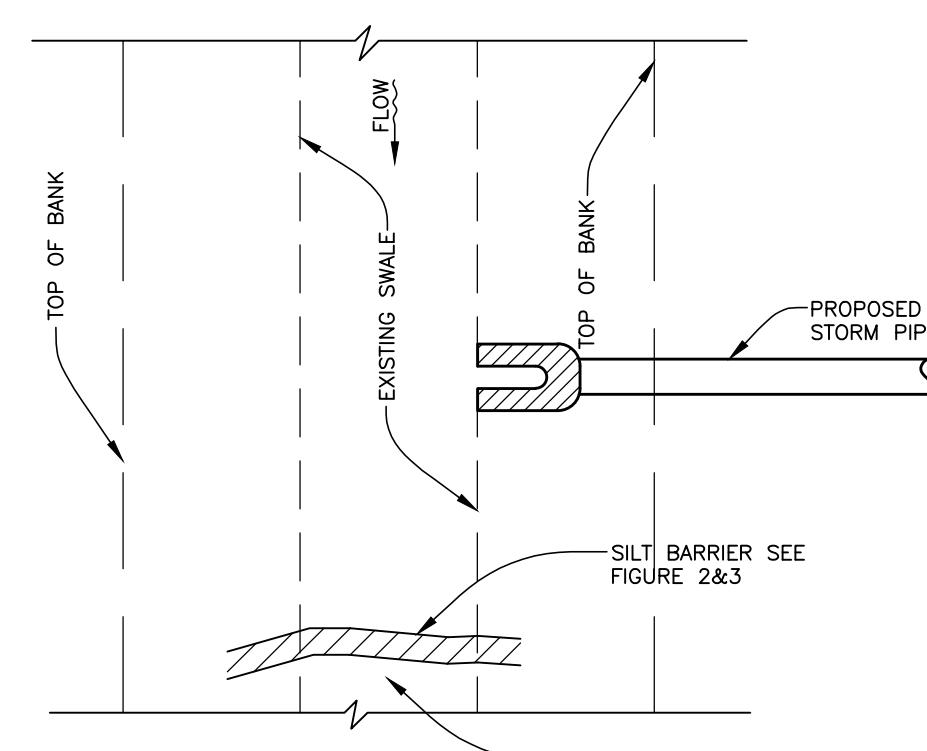
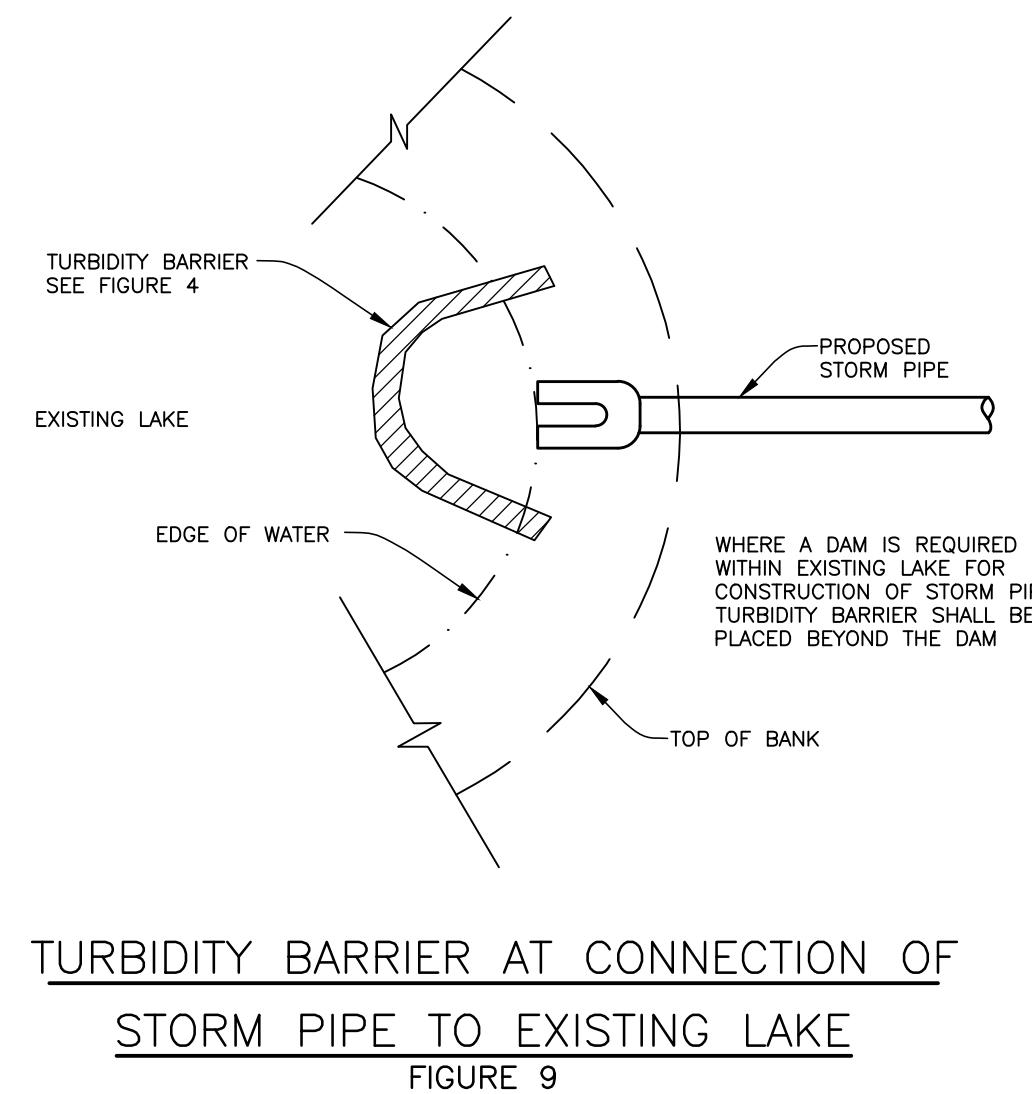
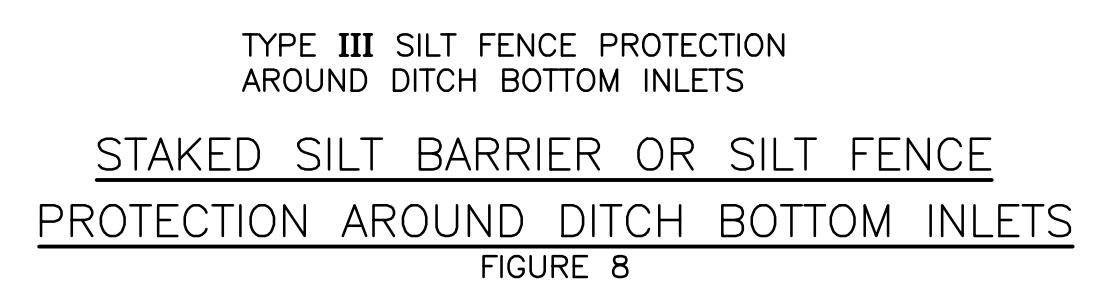
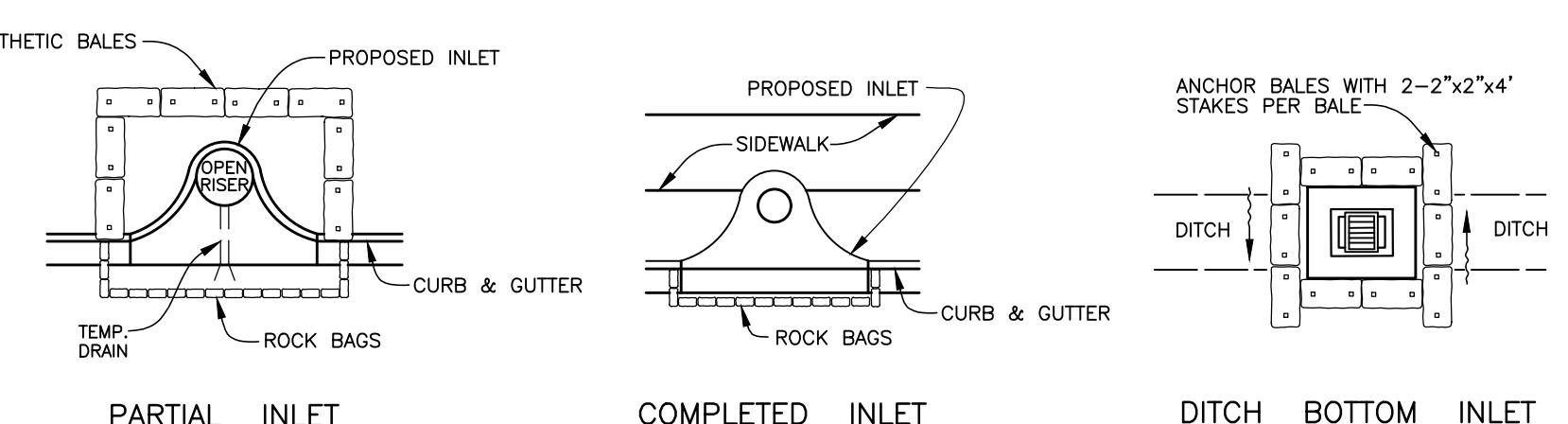
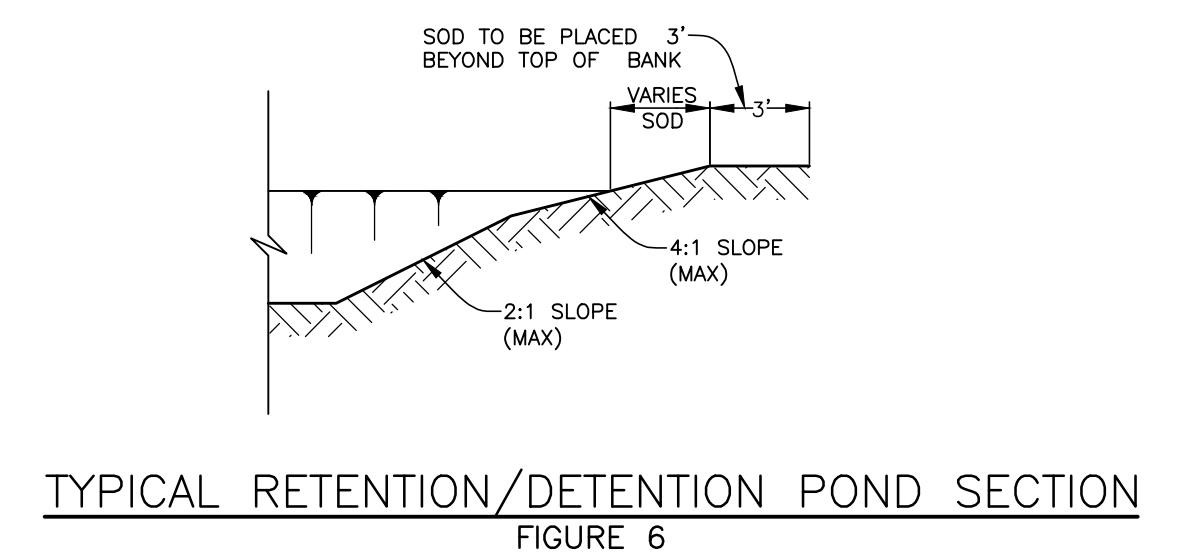
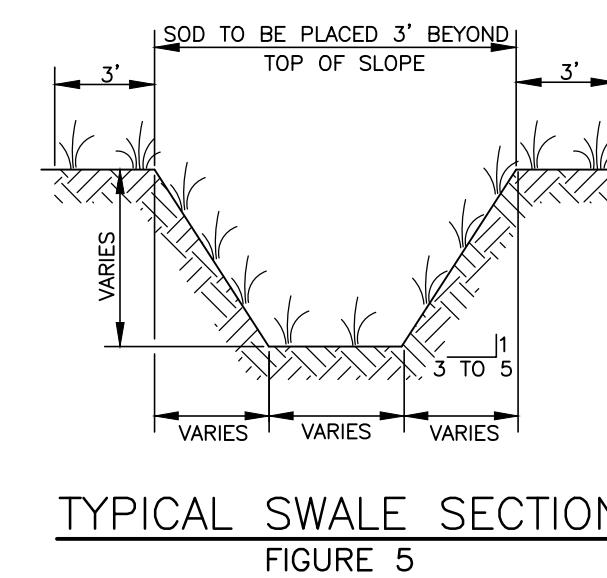
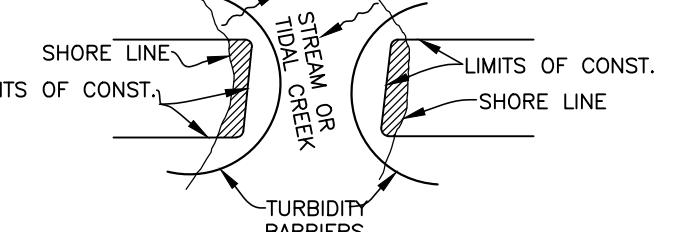
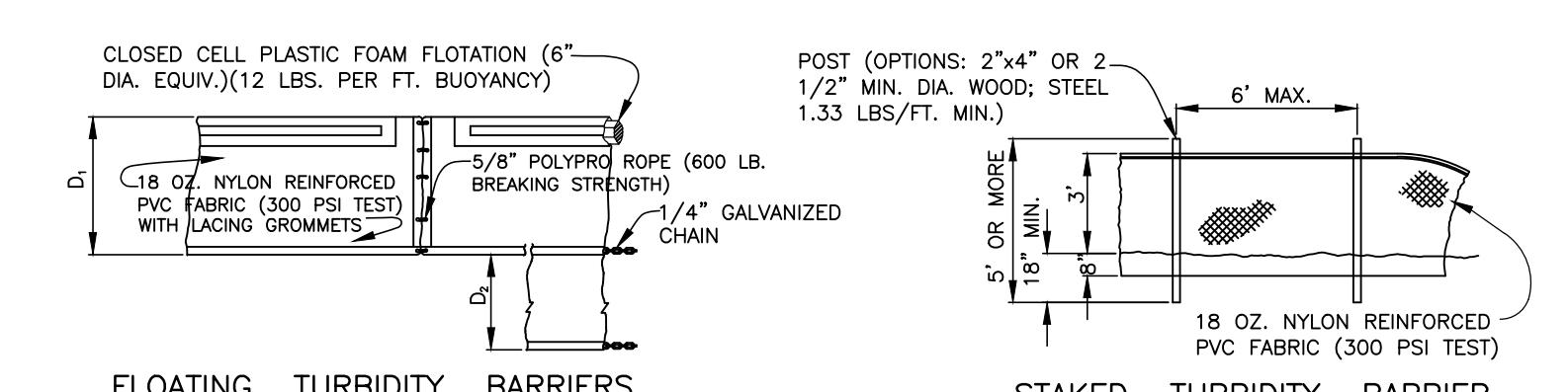
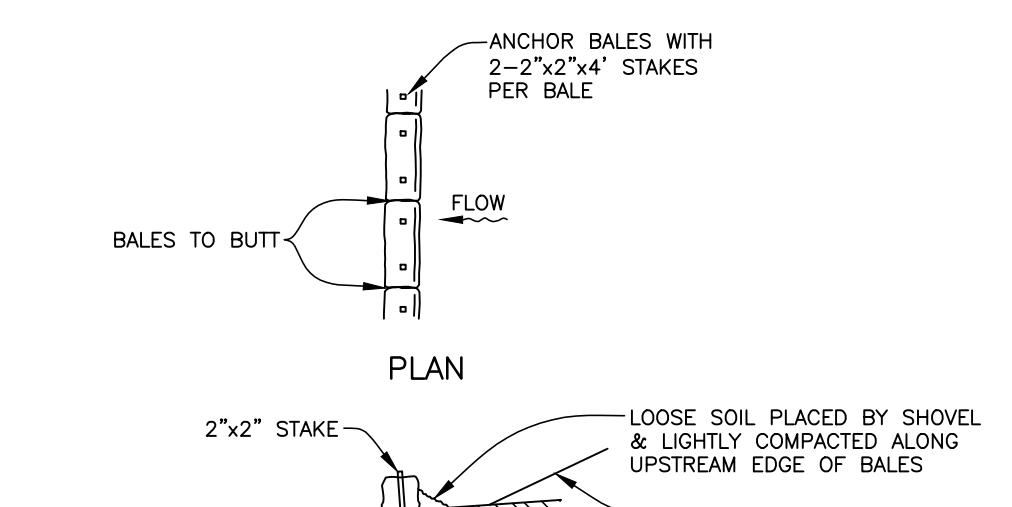
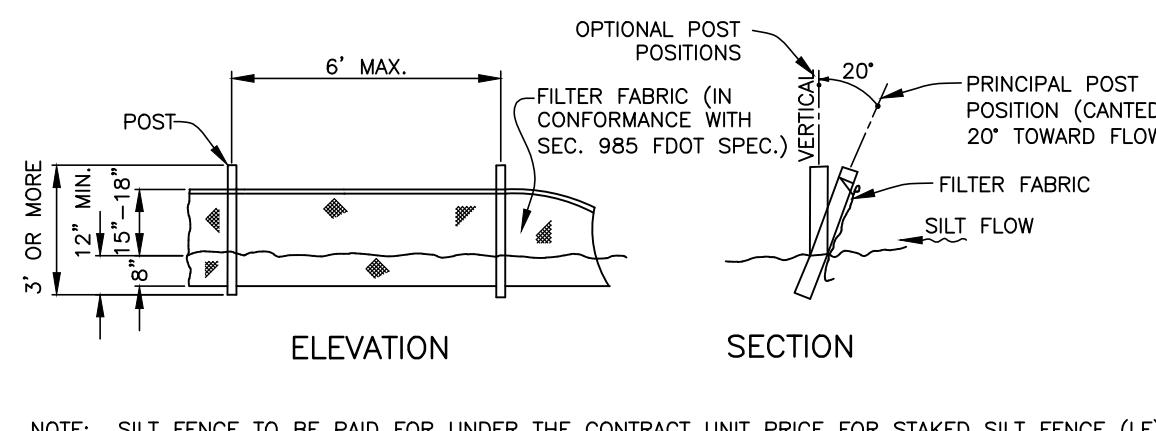
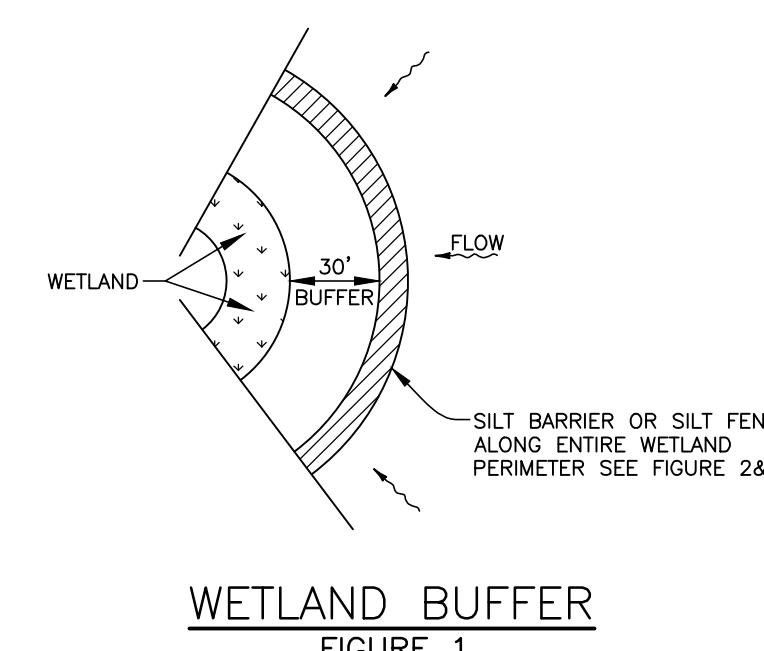
1022 26th Avenue East, Bradenton, FL 34208

J. SHEA SHOUN, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 60923.
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J. SHEA SHOUN, P.E. ON THE DATE INDICATED HERE.
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
PROJECT #	402.001970	SURVEYED	-	-
SEC./TWN./RGE	N/A	DESIGNED	JSS	2/2025
SCALE	SEE PLANS	DRAWN	JSS	2/2025

SATELLITE LIFT STATION R&R
2026 GROUP 1
DETAILS 3

SHEET
NO.
12 of 13



NOTE:
REFERENCE THE STATE OF FLORIDA EROSION
AND SEDIMENT CONTROL DESIGNER AND
REVIEWER MANUAL, LATEST EDITION, FOR ALL
TEMPORARY EROSION CONTROL MEASURES

REVISIONS	
DATE	DESCRIPTION



1022 26th Avenue East, Bradenton, FL 34208

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
PROJECT #	402.0019707	SURVEYED	-	-
SEC./TWN./RGE	VARIES	DESIGNED	JSS	2/2025
SCALE	SEE PLANS	DRAWN	JSS	2/2025

SATELLITE LIFT STATION R&R
2026 GROUP 1
EROSION CONTROL

SHEET
NO.
13 of 13