



REQUEST FOR PROPOSALS ADDENDUM

RFP-DPW-2025-0006

Cortez Blvd (SR 50) Pump Station Replacement Project

ADDENDUM #2

Date Issued: April 1, 2025

TO: All prospective proposers:

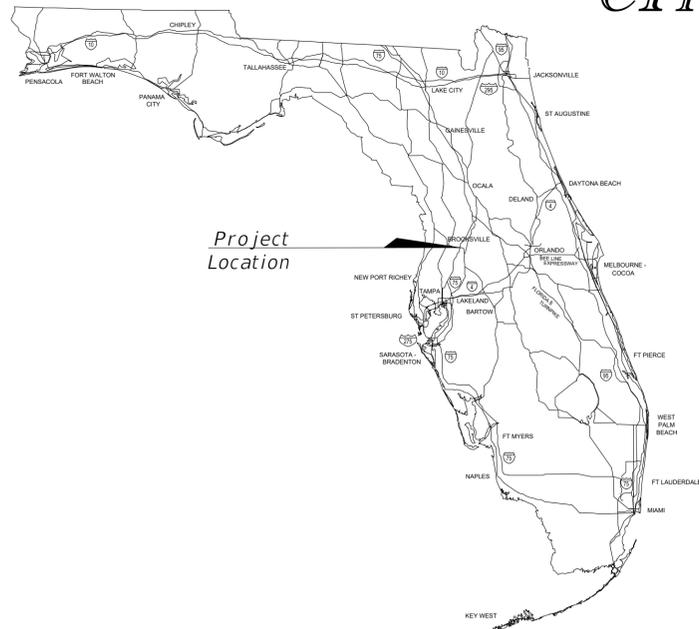
You are hereby notified that this Addendum shall be attached to and made a part of the above-named solicitation and contract documents, as follows:

Bid Set Construction Plans

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CITY OF BROOKSVILLE UTILITIES DEPARTMENT

600 SOUTH BROOKSVILLE AVENUE
 BROOKSVILLE, FL 34601
 (OFFICE 352-540-3860)

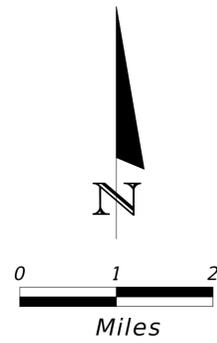
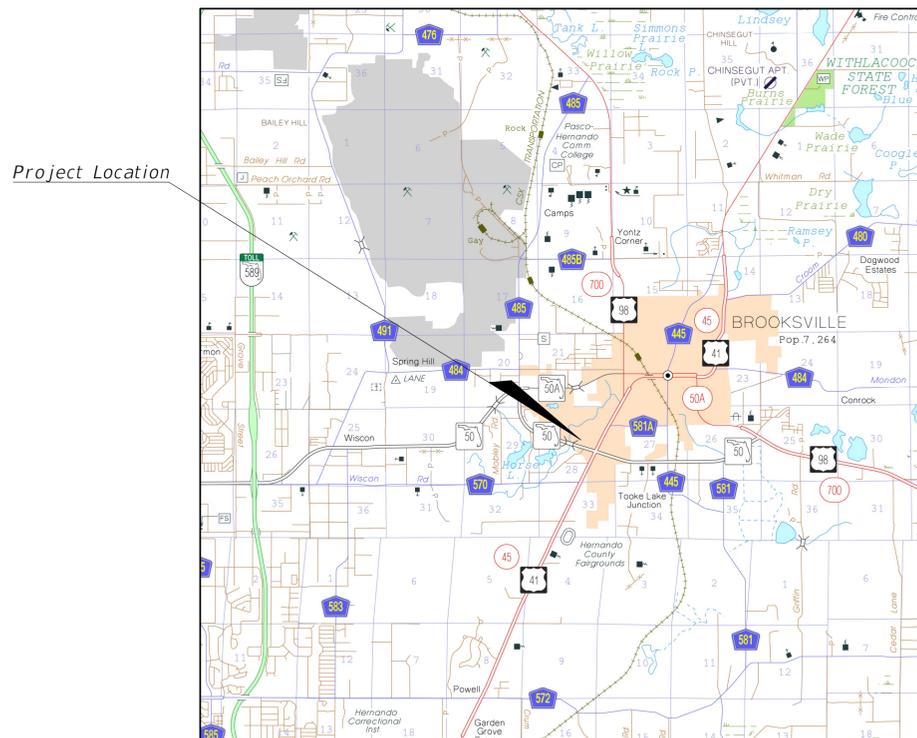


CORTEZ BOULEVARD PUMP STATION REPLACEMENT PROJECT

TASK ORDER FY19/20-07

BID SET
 REVISION 4

COASTAL ENGINEERING PROJECT #20073



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E2.0	Power One-Line

IMPORTANT CONTACT NUMBERS

AT & T TELEPHONE	1-800-472-4700
BRIGHTHOUSE CABLE TV	1-800-892-3499
DUKE ENERGY	1-352-796-5136
CITY OF BROOKSVILLE UTILITIES DEPT	1-352-540-3860
SUNSHINE 811	1-800-432-4770
TECO	1-813-228-1626
WITHLACOCHEE ELECTRIC COOP.	1-352-567-5133
VERIZON	1-800-483-4000
HERNANDO COUNTY TRAFFIC OPTS	1-352-754-4060

PLANS PREPARED BY:

Coastal
 engineering associates, inc.
 Engineering
 Planning
 Surveying
 Environmental
 Traffic
 Transportation
 Construction Management

966 Candlelight Boulevard - Brooksville - Florida 34601
 (352) 796-9423 - Fax (352) 799-8359
 EB-0000142

NOTE: THE SCALE OF THESE PLANS MAY
 HAVE CHANGED DUE TO REPRODUCTION.

Brian M. Malmberg, State of Florida, Professional Engineer, License No. 59405. This item has been digitally signed and sealed by Brian M. Malmberg 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.

ENGINEER OF RECORD: BRIAN M. MALMBERG

P.E. NO.: 59405



CITY COUNCIL MEMBERS

CHRISTA TANNER MAYOR
 THOMAS BRONSON VICE MAYOR
 LOUIS HALLAL COUNCIL MEMBER
 BETTY ERHARD COUNCIL MEMBER
 J.W. McKETHAN COUNCIL MEMBER

PUBLIC WORKS DIRECTOR

RICHARD WEEKS
 PHONE: 352-540-3860
 EMAIL: rweeks@cityofbrooksville.us

UTILITIES OPERATIONS MANAGER

DAVID KINGSBURY
 PHONE: 352-540-3860
 EMAIL: davidk@cityofbrooksville.us

TECHNICAL SPECIFICATIONS

THE FOLLOWING ARE INCORPORATED HEREIN BY REFERENCE:

1. FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
2. FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY AND TRAFFIC DESIGN STANDARDS", LATEST EDITION.
3. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
4. F.D.O.T. UTILITY ACCOMMODATION MANUAL (2017).
5. HERNANDO COUNTY UTILITIES DEPARTMENT WATER, RECLAIMED WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS MANUAL, LATEST EDITION.
6. HERNANDO COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION FACILITY DESIGN GUIDELINES EDITION OCT 2008

GENERAL CONSTRUCTION NOTES

- 1. BENCHMARK DATUM IS NAVD88.
- 2. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS AND TO TOLERANCES STATED HEREIN OR IN THE SPECIFICATIONS. REFER TO THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR ADDITIONAL INFORMATION ON HORIZONTAL AND VERTICAL CONTROL.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROL MARKERS AND PROPERTY CORNERS (MONUMENTS, PIPES, ETC.) FOR THE DURATION OF CONSTRUCTION. MARKERS SHALL BE CONTINUOUSLY FLAGGED AND SHALL BE RESET IMMEDIATELY BY A FLORIDA LICENSED LAND SURVEYOR IF ANY SHOULD BECOME DISTURBED.
- 4. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE DRAWINGS AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, ETC. AFFECTING HIS WORK PRIOR TO CONSTRUCTION.
- 5. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, DRIVEWAYS, SIDEWALKS, RETAINING WALLS, ETC. REMOVED OR DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COSTS WITH THE SAME MATERIAL REMOVED OR DAMAGED OR AS DIRECTED BY THE ENGINEER.
- 6. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO POSSIBLE INCIDENTAL CONFLICTS WITH EXISTING STRUCTURES SUCH AS MAIL BOXES, SIGNS, FENCES, BILLBOARDS, ETC. AND SHALL INCLUDE IN HIS OVERALL COSTS THE REMOVAL AND OR REPLACEMENT AND PROTECTION OF SUCH INCIDENTAL ITEMS.
- 7. THE CONTRACTOR, PRIOR TO BIDDING THIS WORK, SHALL APPRAISE HIMSELF AS TO ALL ABOVE AND BELOW GROUND FEATURES THAT HE MAY ENCOUNTER DURING CONSTRUCTION AND INCLUDE INTO HIS OVERALL BID ALL COSTS FOR SPECIFIC CONSTRUCTION METHODS AND PROCEDURES THAT NEED TO BE TAKEN TO WORK AROUND SUCH APPURTENANCES.
- 8. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH ANY SITE WORK WITH WHICH A CONFLICT HAS ARISEN DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
- 9. CONSTRUCTION SHALL BE CARRIED OUT "IN THE DRY". THE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND GEOTECH REPORT TO DETERMINE METHODS AND EXTENT OF DEWATERING NECESSARY AND SHALL INCLUDE COSTS OF DEWATERING IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS OR WORK REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING.
- 10. ALL WORK TO BE PERFORMED FOR THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE BEST PRACTICES OF THE INDUSTRY AND IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND/OR COUNTY CODES, ORDINANCES, STANDARDS AND PERMIT CONDITIONS. FLORIDA BUILDING CODE (LATEST EDITION) AS APPLICABLE.

TECHNICAL SPECIFICATIONS
ALL SITE AND UTILITY WORK PERFORMED ON THIS PROJECT SHALL BE GOVERNED BY THE APPLICABLE PROVISIONS OF HERNANDO COUNTY. IN ADDITION, THE FOLLOWING STANDARDS ARE INCORPORATED BY REFERENCE:

- 1. STANDARD FOR DESIGN AND CONSTRUCTION OF WATER, WASTEWATER, AND RECLAIMED WATER FACILITIES FOR HERNANDO COUNTY, LATEST EDITION.
- 2. FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY AND TRAFFIC DESIGN STANDARDS", LATEST EDITION.
- 3. FLORIDA DEPT. OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
- 4. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- 5. HERNANDO COUNTY DEPARTMENT OF PUBLIC WORKS / ENGINEERING FACILITY DESIGN GUIDELINES, LATEST EDITION.

UTILITY SEPARATION NOTES

- 1. REFER TO FAC 62-555.314 FOR UTILITY SEPARATION REQUIREMENTS. A SUMMARY OF THESE REQUIREMENTS ARE PROVIDED IN PICTORIAL FORM IN HCDU DETAIL 14 PROVIDED IN THE DETAILS SECTION OF THIS PLAN SET.
- NOTE: WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATIONS AS STIPULATED IN FAC 62-555.314, THE REVIEWING AUTHORITY MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. APPROVAL FOR THE DEVIATION MUST BE OBTAINED PRIOR TO CONSTRUCTION.

GENERAL UTILITY NOTES

- 1. NO CONNECTION TO THE EXISTING UTILITY LINES SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE CITY UTILITIES DEPARTMENT.
- 2. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36" COVER, UNLESS SPECIFIED OTHERWISE. FORCE MAINS SHALL HAVE A MINIMUM OF 48" COVER.
- 3. ALL UTILITY LINES SHALL HAVE PIPELINE LOCATORS. SEE HCDU WATER, RECLAIMED WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS MANUAL SECTION 4 SUBSECTION 4C.4.1.
- 4. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES, WHEN SHOWN, ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ACTUAL FIELD LOCATIONS FROM THE RESPECTIVE UTILITY COMPANY AND TO COORDINATE WITH AFFECTED UTILITY COMPANY 48 HOURS BEFORE BEGINNING ANY WORK.
- 5. ALL PVC FORCE MAINS 4-12" SHALL BE AWWA C-900, DR 18 PVC WITH AWWA APPROVED DUCTILE IRON MECHANICAL JOINT FITTINGS AND SHALL BE GREEN PIPE (WHITE OR BLACK LETTERING).
- 6. ALL PVC WATER MAINS 4-12" SHALL BE AWWA C-900, DR 18 PVC WITH AWWA APPROVED DUCTILE IRON MECHANICAL JOINT FITTINGS AND SHALL BE BLUE (WHITE OR BLACK LETTERING).
- 7. SANITARY SEWER (GRAVITY) PIPE SHALL CONFORM TO ASTM 3034 FOR SDR26 PVC BELL AND SPIGOT GASKETED JOINTS.
- 8. ADDITIONAL REQUIREMENTS FOR PVC, DUCTILE IRON AND HDPE PIPING ARE CONTAINED IN THE CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS FOR THIS PROJECT.
- 9. ALL PVC PIPE SHALL HAVE LETTERING APPEARING ON THREE SIDES OF THE PIPE. SHALL RUN THE ENTIRE LENGTH OF THE PIPE AND SHALL BE 3/4" IN HEIGHT WITH THE APPROXIMATE WORDING APPEARING ONE OR MORE TIMES EVERY 21 INCHES ALONG THE LENGTH OF THE PIPE. THE LETTERING MUST BE PERMANENTLY STENCILED TO THE PIPE SURFACE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE. ALL LETTERING SHALL BE APPLIED BY THE PIPE MFG. DURING PRODUCTION.

GENERAL UTILITY NOTES (CONTINUED)

- 11. THE CONTRACTOR SHALL PERFORM LEAK TESTING ON ALL GRAVITY SEWERS AND A PRESSURE TEST ON ALL WATER AND FORCE MAINS (AS APPLICABLE) IN ACCORDANCE WITH THE UTILITY HAVING JURISDICTION AND/OR AS STATED IN THE SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD. THE SCHEDULING, COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.
- 12. WATER AND WASTEWATER SYSTEMS SHALL NOT BE PLACED IN SERVICE (FOR TEMPORARY OR PERMANENT USE) UNTIL ALL TESTING AND INSPECTIONS HAVE BEEN COMPLETED, TEST REPORTS AND "AS-BUILTS" FOR THOSE SYSTEMS SUBMITTED, AND CLEARANCE HAS BEEN OBTAINED FROM THE APPLICABLE UTILITIES AND PERMITTING AGENCIES. NO WATER SYSTEM SHALL BE PLACED IN SERVICE BEFORE SEWER SYSTEM HAS BEEN CLEARED FOR USE.
- 13. DISINFECTION AND BACTERIOLOGICAL TESTING OF ALL WATER LINES SHALL BE PERFORMED IN ACCORDANCE WITH FDEP REGULATION 62-555.340.
- 14. DEFLECTION TESTING FOR GRAVITY SEWER LINES SHALL BE PERFORMED IN ACCORDANCE WITH "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES (10 STATE STANDARDS)", CURRENT EDITION.
- 15. TESTING OF SUBAQUEOUS LINES SHALL COMPLY WITH FAC 62-604.400(2).
- 16. THE CONTRACTOR SHALL COMPLY WITH LOCAL CROSS-CONNECTION CONTROL POLICY FOR CONSTRUCTION OF ALL POTABLE, SANITARY AND RECLAIMED UTILITIES.
- 17. CONTRACTOR TO PROVIDE JOINT RESTRAINTS TO FULLY RESTRAIN PRESSURE PIPES AGAINST FAILURE UP TO A TEST PRESSURE OF 150 psi. CONTRACTOR SHALL PROVIDE A RESTRAINING PLAN FOR THE ENGINEER'S REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- 18. WARNING SIGNS SHALL BE INSTALLED AT ANY SURFACE WATER CROSSING IN ACCORDANCE WITH FAC 62-604.400(2)(k)2
- 19. ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DOCUMENTS REFERENCED HEREIN. ANY METHODS, PROCEDURES, STANDARDS, EQUIPMENT, OR MATERIALS WHICH ARE NOT COVERED OR SPECIFIED BY THE APPLICABLE PROVISIONS OF COUNTY SPECIFICATIONS SHALL BE CONSTRUCTED TO BE IN ACCORDANCE WITH THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND F.D.O.T. UTILITIES ACCOMMODATION GUIDE UNLESS SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. IN THE CASE OF CONFLICTING SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY.
- 20. ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE UTILITY OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES. ANY AND ALL DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 21. WHERE WATER AND SEWER LINE INSTALLATION ARE IN CONFLICT WITH EXISTING UTILITY POLES, GUY WIRES OR SIMILAR STRUCTURES, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY TO DETERMINE WHETHER THE STRUCTURES WILL REQUIRE RESTRAINT. THE FINAL DECISION AS TO WHETHER RESTRAINT IS REQUIRED WHILE EXCAVATION OCCURS SHALL BE THAT OF THE UTILITY OWNER. THE COST FOR THIS COORDINATION AND RESTRAINT SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL COSTS.
- 22. CONTRACTOR SHALL PROVIDE TEMPORARY CONNECTIONS AS NECESSARY FOR FLUSHING, DECONTAMINATION AND PRESSURE TESTING.
- 23. ALL DEFLECTION BENDS ARE 45° UNLESS SPECIFIED OTHERWISE. EXACT LOCATION OF BENDS TO BE DETERMINED IN FIELD AND APPROVED BY FIELD INSPECTOR. LOCATION DATA SHALL BE PROVIDED IN AS-BUILTS ACCORDING TO CITY REQUIREMENTS. (ALL FITTINGS (TYPE AND MATERIAL), PIPES (MATERIAL) AND PIPE SIZES SHALL BE SHOWN ON DRAWINGS.

GENERAL UTILITY NOTES

- 1. CONTRACTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING FIVE (5) BUSINESS DAYS PRIOR TO THE START OF OFF-SITE UTILITY CONSTRUCTION. CONTRACTOR MUST PROVIDE ALL UTILITY SUBMITTALS TO THE COB INSPECTOR FOR REVIEW AND APPROVAL A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. COB INSPECTOR MUST ATTEND THE PRE-CONSTRUCTION MEETING. CONTACT COB AT (352) 540-3860 TO SCHEDULE THE PRE-CONSTRUCTION MEETING.
- 2. CONTRACTOR TO NOTIFY COB INSPECTOR 48 HOURS PRIOR TO UTILITY CONSTRUCTION IN THE COUNTY RIGHT-OF-WAY. COB INSPECTOR MUST BE PRESENT FOR ALL WATER AND SEWER CONNECTIONS.
- 3. CONSTRUCTION WATER TO BE PROVIDED BY A TEMPORARY CONSTRUCTION WATER METER INSTALLED BY COB ON THE CLOSEST COB FIRE HYDRANT TO THE SITE. CONSTRUCTION METERS WILL BE INSTALLED BY COB WITHIN FIVE (5) BUSINESS DAYS OF SIGNING UP FOR SERVICE. CONTRACTOR TO CONTACT CITY OF BROOKSVILLE TO SIGN UP FOR SERVICE, IF CONSTRUCTION WATER IS REQUIRED.
- 4. THE CITY OF BROOKSVILLE SHALL NOT OWN, OPERATE, OR MAINTAIN ON-SITE WATER AND/OR SEWER UTILITIES LOCATED OUTSIDE OF UTILITY EASEMENTS.
- 5. THE COB IS NOT RESPONSIBLE FOR ANY ONSITE DAMAGE ASSOCIATED WITH THE NORMAL MAINTENANCE OR REPAIR OF ANY CITY OWNED WATER MAINS/METERS AND/OR SEWER MAINS/SERVICES. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ALL REPAIRS AND REPLACEMENT TO EXISTING LANDSCAPING, CURBING, ASPHALT, CONCRETE, ETC.
- 6. CITY OWNED INFRASTRUCTURE: COB PERSONNEL MUST BE PRESENT TO PHYSICALLY VERIFY THAT THE INSTALLATION OF ALL PIPE FITTINGS HAS BEEN DONE PER PLAN BEFORE BURYING. THESE FITTINGS SHALL INCLUDE BUT NOT LIMITED TO: COUPLING, RESTRAINT, TEE, 90, 45, 22, 11, AIR RELEASE AND ANY DIVERSIONS FROM A STRAIGHT PIPE RUN. IF HCDU HAS NOT INSPECTED THE FITTING BEFORE BURYING THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING FOR INSPECTION.

UTILITIES NOTES

- 1) WATER PIPE LESS THAN 4" SHALL BE SDR 26 PVC PER ASTM D 2241 W/ GASKETED JOINTS PER ASTM D 3139. COLOR CODING OF PIPE SHALL BE WHITE OR BLUE FOR WATER WITH APPROPRIATE NSF MARKINGS, MECHANICAL RESTRAINTS OR THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS. BENDS SHALL BE 45° UNLESS APPROVED OTHERWISE. SCH80 PVC IN ACCORDANCE W/ FLORIDA PLUMBING CODE MAY BE SUBSTITUTED FOR SDR 26 PVC.
- 2) SHUT OFF VALVES LESS THAN 4" SHALL BE BRASS, FIPT, BALL VALVE, NSF APPROVED FOR POTABLE SUPPLY WITH MINIMUM 150 PSI PRESSURE RATING.
- 3) PIPE RESTRAINTS TO BE INSTALLED PER MANUFACTURER AND HCDU MINIMUM REQUIREMENTS.
- 4) CONTRACTOR SHALL PROVIDE TEMPORARY BLOW-OFFS AT ENDS OF WATER AND SEWER MAINS.
- 5) CONTRACTOR SHALL PROVIDE TEMPORARY CONNECTIONS AS NECESSARY FOR FLUSHING, DISINFECTION AND PRESSURE TESTING.
- 6) NO CONNECTIONS TO EXISTING WATER OR SEWER MAINS SHALL BE MADE UNTIL APPROVED BY THE ENGINEER AND CITY OF BROOKSVILLE.
- 7) SYMBOLS USED TO REPRESENT FITTINGS ARE NOT TO SCALE AND THEREFORE ARE NOT INTENDED TO SHOW EXACT LOCATIONS. THEY REPRESENT GENERAL LOCATIONS ONLY. AT OR ABOVE GRADE APPURTENANCES (SUCH AS FIRE HYDRANTS, VALVE BOXES, BLOW-OFFS, SAMPLING POINTS, ETC.) ARE NOT TO BE INSTALLED IN PAVED AREAS (INCLUDING SIDEWALKS) WITHOUT WRITTEN APPROVAL BY THE ENGINEER. FINAL LOCATIONS SHOULD BE ADJUSTED AS NECESSARY TO MEET THIS REQUIREMENT WITHOUT ALTERING INTENDED DESIGN.
- 8) INSTALL FITTINGS OR DEFLECT PIPE (PER MANUFACTURER'S INSTRUCTIONS) TO AVOID CONFLICT. SEE DETAIL 14 FOR MINIMUM SEPARATION.
- 9) RESTRAIN EXISTING WATER SYSTEM CONNECTION POINTS AS NECESSARY (AT A MINIMUM PER PIPELINE JOINT RESTRAINT SPECIFICATION DETAIL).
- 10) FITTINGS SHOWN ARE FOR PLANNING AND BIDDING PURPOSES ONLY CONTRACTOR TO INSTALL FITTINGS AS NECESSARY TO MAINTAIN MINIMUM REQUIRED SEPARATIONS AND FOLLOW PROPOSED ROUTE. PIPE DEFLECTION MAY ALSO BE USED TO MEET THIS REQUIREMENT. NOTHING AND EASTING WHEN SHOWN ARE APPROXIMATE, CONTRACTOR TO FIELD VERIFY LOCATIONS.

MAINTENANCE OF TRAFFIC

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MAINTENANCE OF TRAFFIC, INCLUDING SIGNAGE AND BARRICADES AS NEEDED IN ACCORDANCE WITH APPLICABLE PERMITS AND THE FLORIDA DEPT. OF TRANSPORTATION (FDOT).
- 2. MOT WITHIN FDOT RIGHT OF WAY AND SURROUNDING CITY STREETS SHALL CONFORM TO THE FDOT STANDARD INDEX 600 SERIES AS APPROPRIATE.
- 3. CONTRACTOR SHALL PROVIDE 24 HOURS NOTICE TO LOCAL EMERGENCY SERVICES DEPARTMENT(S) WHENEVER CONSTRUCTION ACTIVITIES ARE EXPECTED TO IMPED NORMAL TRAFFIC FLOW.
- 4. THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLANS TO APPROPRIATE REGULATORY AGENCIES HAVING JURISDICTION OVER IMPACTED ROADWAYS. CONSTRUCTION SHALL NOT COMMENCE WITHIN ROW UNTIL MOT APPROVALS FOR IMPACTED ROAD ARE RECEIVED.
- 5. CONTRACTOR SHALL NOTIFY LOCAL EMERGENCY SERVICES DEPARTMENTS WHENEVER CONSTRUCTION ACTIVITIES WILL IMPEDE NORMAL TRAFFIC FLOW. SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF VEGETATION. WATERING OR OTHER PRIOR APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT GRASSING, LANDSCAPING AND OTHER SITE WORK SHALL BE INITIATED AS SOON AS POSSIBLE.

ENVIRONMENTAL PROTECTION NOTES

- 1. CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED IN WETLAND AREAS UNLESS SUCH CONSTRUCTION PRACTICES ARE APPROVED IN A PLAN OF OPERATION SUBMITTED TO THE ENGINEER & THE APPROPRIATE REGULATORY AUTHORITIES. WHERE CONSTRUCTION IS NECESSARY ACROSS OR ADJACENT TO WETLAND JURISDICTIONAL AREAS, SILT BARRIERS SHALL BE INSTALLED AS SHOWN ON THE PLANS. SILT BARRIERS SHALL BE CONSIDERED LIMITS OF CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS.
- 2. CONSTRUCTION SHALL PROCEED SUCH THAT ALL STORMWATER FACILITIES WITHIN A WATERSHED AREA ARE IN PLACE AND OPERATIONAL PRIOR TO CONSTRUCTION OF IMPERVIOUS SURFACES WITHIN THAT AREA.
- 3. STAKED OR FLOATING SILT SCREENS OR SYNTHETIC HAY BALES, AS APPROPRIATE, SHALL BE UTILIZED AS SILT BARRIERS AND PLACED IN LOCATIONS SHOWN ON THE PLANS AND AT OTHER LOCATIONS AS REQUIRED TO KEEP SEDIMENT FROM REACHING WATER BODIES OR WETLAND AREAS. ONCE CONSTRUCTION IS COMPLETE AND FINISH GRADING / STABILIZATION HAS BEEN ACHIEVED, SILT BARRIERS SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE OWNER AND PRIOR TO FINAL ACCEPTANCE.
- 4. ALL FUGITIVE DUST SHALL BE CONTROLLED ON SITE. ONLY AREAS WITHIN WETLANDS, ADDITIONALLY, STOCKPILES TO REMAIN FOR LONGER THAN 24 HOURS SHALL BE CONFINED BY SILT BARRIERS WHICH PREVENT RUNOFF SEDIMENTATION FROM ENCROACHING UPON WETLAND AREAS OR SURFACE WATER BODIES. STOCKPILES IN PLACE AND UNTOUCHED FOR 7 DAYS OR MORE TO HAVE VEGETATIVE COVER TO PREVENT WIND EROSION AND SEDIMENT DISPERSAL.
- 5. ALL WATER COLLECTED AND PUMPED DURING TRENCH DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UPLAND AREAS INTO DOUBLE STAKED HAY BALES. DISCHARGE LOCATIONS SHALL BE A MINIMUM OF 75 FEET FROM THE NEAREST SURFACE WATER BODY AND DISTANT ENOUGH TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES.
- 6. TEMPORARY STOCKPILES SHALL NOT BE LOCATED ADJACENT TO UNDISTURBED WETLANDS. ADDITIONALLY, STOCKPILES TO REMAIN FOR LONGER THAN 24 HOURS SHALL BE CONFINED BY SILT BARRIERS WHICH PREVENT RUNOFF SEDIMENTATION FROM ENCRACHING UPON WETLAND AREAS OR SURFACE WATER BODIES. STOCKPILES IN PLACE AND UNTOUCHED FOR 7 DAYS OR MORE TO HAVE VEGETATIVE COVER TO PREVENT WIND EROSION AND SEDIMENT DISPERSAL.
- 7. ALL TRASH AND CONSTRUCTION DEBRIS PRODUCED FROM THIS PROJECT SHALL BE COLLECTED BY THE CONTRACTOR DAILY. THESE MATERIALS SHALL BE STAGED OR CONTAINERIZED AS NECESSARY TO PREVENT ACCIDENTAL RELEASE. DISPOSAL OF SOLID WASTE MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPAL, COUNTY AND STATE REGULATIONS.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING PORTABLE SANITARY WASTE UNITS ON-SITE FOR USE BY HIS EMPLOYEES DURING CONSTRUCTION.
- 9. THE CONTRACTOR SHALL MAINTAIN CONTROL OF ANY HAZARDOUS MATERIALS UTILIZED ON-SITE FOR CONSTRUCTION. STORAGE CONTAINERS, VEHICLES, ETC. WILL BE INSPECTED REGULARLY FOR LEAKAGE. A SPILL PREVENTION PLAN SHALL BE ESTABLISHED WHICH COVERS CLEANUP AND NOTIFICATION OF APPROPRIATE GOVERNMENT AGENCIES.
- 10. CONTRACTOR SHALL NOT REMOVE TREES WITHOUT APPROVAL OF THE LOCAL GOVERNING JURISDICTION. TREE PROTECTION SHALL BE IN ACCORDANCE WITH LOCAL GOVERNING AUTHORITY.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING SITE EROSION AND SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION OR ALTER EXISTING TOPOGRAPHY. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SOD, SYNTHETIC HAY BALES, SAND BAGS OR SEED & MULCH, AS NECESSARY, TO ACHIEVE AN EROSION-FREE SITE (FREE FROM RUTTING, ETC.) TO THE LINES AND GRADES SHOWN IN THE PLANS UNTIL FINAL ACCEPTANCE. ALL SWALES AND SURFACES 4:1 OR STEEPER SHALL BE SODDED. ALL OTHER UNPAVED SURFACES WHICH EXPERIENCE UNDU EROSION THAT CANNOT BE CONTROLLED BY OTHER MEASURES SHALL BE SODDED. ALL SOD SHALL BE ARGENTINE BAHIA UNLESS SPECIFICALLY SHOWN OTHERWISE IN THE CONTRACT DOCUMENTS. ALL SODDED SLOPES OVER 4:1, SHALL BE INSTALLED WITH SOD PEGS.
- 12. SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION, MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL THE SITE IS PERMANENTLY STABILIZED. SEE SWPP / CSWMP NOTES AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
- 13. THE REMOVAL OF LITTORAL VEGETATION (INCLUDING CATTAILS) FROM WET DETENTION PONDS IS PROHIBITED UNLESS OTHERWISE APPROVED BY THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWM). REMOVAL INCLUDES DREDGING, THE APPLICATION OF HERBICIDES, CUTTING AND THE INTRODUCTION OF GRASS CARP. ANY QUESTIONS REGARDING AUTHORIZED ACTIVITIES WITHIN THE WET DETENTION PONDS SHALL BE ADDRESSED TO THE REGULATION MANAGER OF SWFWM'S LOCAL OFFICE.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF TEMPORARY SEDIMENT/EROSION CONTROL DEVICES WHEN NO LONGER NEEDED.
- 15. THE CONTRACTOR SHALL PROVIDE AND INSTALL SILT FENCING BETWEEN ALL DRILLING OPERATIONS AND ANY DRAINAGE, WETLAND, WATERWAY OR OTHER AREA DESIGNATED FOR SUCH PROTECTION BY STATE, FEDERAL AND LOCAL REGULATIONS. THE CONTRACTOR SHALL PLACE HAY BALES, OR APPROVED PROTECTION, TO LIMIT INTRUSION UPON PROJECT AREA. ADDITIONAL ENVIRONMENTAL PROTECTION NECESSARY TO CONTAIN ANY HYDRAULIC OR DRILLING FLUID SPILLS SHALL BE PUT IN PLACE, INCLUDING BERTS, LINERS, TURBIDITY CURTAINS AND OTHER MEASURES. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE ENVIRONMENTAL REGULATIONS INCLUDING ENVIRONMENTAL CONDITION STATED IN LOCAL, STATE AND FEDERAL PERMITS.

MINIMUM REQUIRED AS-BUILTS

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING A RECORD SURVEY(S) PREPARED AND SUBMITTED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER INCLUDING, BUT NOT LIMITED TO, LOCATION AND FINISHED GRADE ELEVATIONS IN PAVED AND NON-PAVED AREAS SUFFICIENT TO DETERMINE DIRECTION OF SITE DRAINAGE AND ELEVATIONS OF RETENTION/DETENTION AREAS, MITIGATION AREAS AND DITCH/CHANNEL CONVEYANCES INCLUDING TOPS OF BANKS, TOES OF SLOPES, POND BOTTOMS AND WATER LEVELS; ELEVATIONS AND DIMENSIONS OF POND CONTROL STRUCTURES, SPILLWAYS AND UNDERDRAINS; DRAINAGE STRUCTURE GRATE/INLET/RIM ELEVATIONS, STORM PIPE SIZES, PIPE MATERIALS, AND PIPE INVERTS, PLUS LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN. UTILITY INFORMATION SHALL INCLUDE LOCATION OF WATER LINE CONNECTIONS, VALVES, BENDS, METERS AND ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN; TIES TO SANITARY SEWER LINES, MANHOLE RIM AND INVERT ELEVATIONS, CLEANOUTS AND SERVICE CONNECTIONS.
- 2. ALL DIMENSIONS SHALL BE IN FEET DIMENSIONED OFF CENTERLINE OF ROADS OR OTHER PERMANENT STRUCTURES. IF ONLY ONE DIMENSION CAN BE TAKEN OFF THE CENTERLINE OF ROAD, THE SECOND SHALL BE OFF A PERMANENT MARKER OR REFERENCE POINT.
- 3. TWO (2) SETS OF 24X36 SIGNED AND SEALED AS-BUILT DRAWINGS, ONE (1)CD WITH AUTOCAD AND ADOBE PDF'S OF ALL SHEETS SHALL BE SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- 4. HORIZONTAL DIRECTIONAL DRILLING(HDD) AS-BUILT RECORDS SHALL INCLUDE A PLAN, PROFILE AND INVERT RECORDS INCLUDING THE PROGRESS OF THE WORK, INCLUDING ALL SUBSURFACE ANOMALIES IDENTIFIED BY GROUND PENETRATING RADAR(GPR) OR VACUUM EXCAVATION.

WATER LINES, FORCE MAINS & RE-USE MAINS (WHEN APPLICABLE)

- 1. UTILITY PIPING SHALL BE DIMENSIONED OFF CENTERLINES OF PAVEMENT OR OTHER PERMANENT STRUCTURES.
- 2. FITTINGS, VALVES, HYDRANTS, TAPS, ETC. SHALL BE DIMENSIONED (SEE NOTE NO. 1 UNDER "GENERAL") USING DESCRIPTIVE NOTE INDICATING THE TYPE OF FEATURE WITH DIMENSIONS TO A PERMANENT SURFACE FEATURE.
- 3. INDICATE DEPTH OF COVER AT ALL LOCATIONS WHERE PIPING DIFFERS FROM THE CONSTRUCTION PLANS.
- 4. INDICATE ALL LOCATIONS WHERE MINIMUM VERTICAL AND HORIZONTAL WATER AND SEWER SEPARATION WAS NOT MAINTAINED. DETAIL INSTALLATION METHOD.
- 5. INDICATE LOCATIONS AND TYPES OF ALL BACTERIOLOGICAL SAMPLING POINTS.
- 6. SHOW THE SIZE, SDR, CLASS AND TYPE OF MATERIAL IF DIFFERENT THAN PLANS.
- 7. DIMENSION WATER MAIN STUBS FROM GATE VALVE TO TERMINAL POINT AND FROM CENTERLINE OF ROAD.
- 8. ALL PRESSURE PIPE LINES (POTABLE, REUSE, FM) TOP OF PIPE SHALL BE LOCATED (X,Y,Z) AT 100-FT STATION INTERVALS.

SEWER (WHEN APPLICABLE)

- 1. SHOW ACTUAL ELEVATIONS (TOP AND ALL INVERTS) FOR ALL NEW AND EXISTING MANHOLES.
- 2. SHOW ACTUAL GRAVITY SEWER SLOPE PERCENTAGES.
- 3. INDICATE ALL LOCATIONS WHERE SEWER LINE WAS ENCASED OR WHERE DUCTILE IRON WAS UTILIZED.
- 4. SHOW SIZE, SDR, CLASS OR TYPE OF MATERIAL IF DIFFERENT THAN PLANS.
- 5. SHOW LOCATIONS OF ALL SERVICE WYES BY DIMENSION FROM MANHOLES.
- 6. DIMENSION SERVICE LATERAL TERMINATION POINTS AND DEPTH FROM FINISH GRADE.
- 7. FITTINGS, VALVES, TAPS, ETC. SHALL BE DIMENSIONED (SEE NOTE NO. 1 UNDER "GENERAL") USING DESCRIPTIVE NOTES INDICATING THEIR EXACT LOCATION.

PUMP STATIONS (WHEN APPLICABLE)

- 1. SHOW BOTTOM, INFLUENT INVERT AND TOP ELEVATIONS OF WETWELL.
- 2. ACTUAL ELEVATIONS OF BOTTOM OF CONTROL PANEL.
- 3. ELEVATIONS OF LIQUID LEVEL SENSORS FOR PUMP OFF, FIRST AND SECOND PUMPS ON (THIRD IF PROVIDED), AND ALARM ON.
- 4. SHOW ALL WETWELL AND VALVE VALVE PIPING AND VALVE CHANGES.

NOTE: PROJECT SHALL NOT BE CERTIFIED COMPLETE BY THE ENGINEER WITHOUT THE FOLLOWING ACCEPTABLE AS-BUILT INFORMATION AND ALL SPECIFIED TEST RESULTS.

FDOT GENERAL NOTES

- ALL WORK PERFORMED IN THE DEPARTMENT'S RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE WORKING DRAWINGS AND THE FOLLOWING: A) F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. B) F.D.O.T. DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM. C) F.D.O.T. ROADWAY PLANS PREPARATION MANUAL VOLUME I, CHAPTER 1, 2, 4, 8, 10, 19 AND/OR 25. D) F.D.O.T. FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION.
- 1) ALL AREAS IN THE FDOT RIGHT OF WAY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED, COMPACTED, SODDED AND WATERED IN CONFORMANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 575 AND 981 AND DESIGN STANDARDS INDEX 105.
- 2) DAYTIME WORK ONLY, BETWEEN THE HOURS OF 9:00AM AND 3:30PM, UNLESS OTHERWISE APPROVED BY FDOT FOR NIGHTTIME OR EXTENDED HOURS. THE F.D.O.T. ENGINEER MUST APPROVE NIGHT WORK AND LANE CLOSURES AT LEAST 48 HOURS IN ADVANCE. THE APPLICANT MUST NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION LOCAL MAINTENANCE OFFICE 48 HOURS IN ADVANCE OF STARTING ANY PROPOSED WORK. CALL: BROOKSVILLE OPERATIONS, PERMITS MANAGER @ 352-848-2600.
- 3) ALL TRAFFIC STRIPES AND PAVEMENT MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE DEPARTMENT WITH THE MANUFACTURER'S CERTIFICATION THAT THE THERMOPLASTIC IS "LEAD FREE". REMOVAL OF EXISTING STRIPING SHALL BE DONE BY MILLING AND RESURFACING OF THE FRICTION/SURFACE COURSE TO OBLITERATE OBSOLETE PAVEMENT MARKINGS.
- 4) ALL PROPOSED TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH AND CONSTRUCTED TO THE FDOT DESIGN STANDARDS INDEX SERIES 11000 AND 17000 SERIES. THE PROPERTY OWNER MUST MAINTAIN THE TRAFFIC SIGNS AND MARKINGS FOR THE DRIVEWAY.
- 5) FOR WORK WITHIN THE FDOT RIGHT-OF-WAY, THE CONTRACTOR SHALL PROVIDE A TEMPORARY TRAFFIC CONTROL PLAN PREPARED UNDER THE DIRECTION OF, AND SIGNED AND SEALED BY A LICENSED FLORIDA PROFESSIONAL ENGINEER WHO IS EXPERIENCED IN PREPARING TRAFFIC CONTROL PLANS AND WHO IS CERTIFIED PER FDOT PROCEDURE TOPIC NO. 625-010-010. THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY OR CONTRACTOR EMPLOYEE(S) DESIGNING, INSTALLING, AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN. DOCUMENTATION IS TO BE FURNISHED TO THE DEPARTMENT AT THE PRE-CONSTRUCTION MEETING OR BEFORE OCCUPYING STATE RIGHT-OF-WAY.
- 6) MAINTENANCE OF TRAFFIC PLAN FOR WORK ZONES SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF FDOT DESIGN STANDARDS INDEX 600 AND IMPLEMENTED PER THE SPECIFIC REQUIREMENTS OF THE CURRENT FDOT DESIGN STANDARDS INDEX 600 SERIES INCLUDED WITH THESE PLANS.
- 7) **SIDEWALK SHALL BE CONSTRUCTED PER FDOT INDEX 304 AND 310.
- 8) **MAINTENANCE OF TRAFFIC PLAN MUST INCLUDE FDOT DESIGN STANDARDS INDEX 660 PEDESTRIAN CONTROL OR CLOSURE OF SIDEWALKS.
- 9) ALL MATERIALS AND PRODUCTS INSTALLED IN THE FDOT RIGHT-OF-WAY (INCLUDING TACTILE SURFACES) SHALL BE IN CONFORMANCE WITH THE FDOT'S APPROVED PRODUCT LIST(APL), AND THE MATERIAL SOURCE LISTING (TIMBER AND PIPE, ETC)

SPECIAL NOTES TO CONTRACTORS

- 1. FOR ALL WORK IN THE FDOT RIGHT-OF-WAY THE PERMITTEE AND THE PERMITTEE'S ENGINEER ARE RESPONSIBLE FOR INSPECTING AND VERIFYING THAT THE WORK AND MATERIALS MEET ALL FDOT INDICES, STANDARDS, SPECIFICATIONS, CONDITIONS, QUALIFIED/APPROVED/CERTIFIED PRODUCTS AND PROVISIONS OF THE PERMIT. THE CONTRACTOR MUST COORDINATE WITH THE ENGINEER BEFORE PERFORMING ANY WORK IN FDOT RIGHT-OF-WAY TO ENSURE ALL REQUIREMENTS WILL BE MET.
- 2. WHERE TREE REMOVAL IS REQUIRED DUE TO CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF THOSE TREES. THE COST FOR THIS REMOVAL AND DISPOSAL SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL COSTS. TREE REMOVAL AND PROTECTION SHALL COMPLY WITH APPLICABLE CITY AND COUNTY CODES.
- 3. UNLESS SPECIFIED OTHERWISE, CONTRACTOR SHALL FURNISH AND INSTALL ALL PROPOSED ITEMS SHOWN WITHIN THE CONSTRUCTION PLANS.
- 4. CONSTRUCTION EQUIPMENT AND MATERIAL TRANSPORT / STAGING IS THE RESPONSIBILITY OF THE CONTRACTOR. UPON REQUEST, THE OWNER WILL PROVIDE ACCESS TO THE CLOSEST OPEN SPACE OWNED AND AVAILABLE FOR THE CONTRACTOR'S USE; HOWEVER, THE SITE MAY NOT BE CONTIGUOUS TO THE PROJECT AREA OR OF SUFFICIENT SIZE TO ACCOMMODATE THE ENTIRE PROJECT INVENTORY OF MATERIALS / EQUIPMENT.
- 5. ALL EQUIPMENT AND MATERIALS (INCLUDING EXCESS FILL) TO BE REMOVED OR DEMOLISHED DURING THE CONSTRUCTION PROCESS, UNLESS NOTED TO BE SALVAGED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- 6. A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IS NOT PART OF THE PERMITTING OBTAINED WITH THIS PLAN SET. THEREFORE, THE CONTRACTOR IS ADVISED THAT AN NPDES CONSTRUCTION PERMIT MAY BE REQUIRED FOR THIS PROJECT AND THAT THE CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND ADHERING TO THIS PERMIT. REFER TO SUBSECTION 62-621., F.A.C. FOR ADDITIONAL INFORMATION. THE INFORMATION PROVIDED IN THE SWPPP REPORTS AND DETAILS SHEETS ARE FOR COMPLIANCE WITH ENVIRONMENTAL RESOURCE PERMITTING UNDER CHAPTER 62-333, F.A.C. AND MAY BE USED AS A REFERENCE FOR COMPLIANCE WITH NPDES PERMITTING BUT ARE NOT NECESSARILY INCLUSIVE OF ALL NPDES REQUIREMENTS.
- 7. THE CONTRACTOR SHALL, AT ALL TIMES, MAINTAIN SAFE VEHICULAR ACCESS TO ALL PROPERTIES THAT ARE IMPACTED BY THE CONSTRUCTION ACTIVITIES OF THIS PROJECT.
- 8. ALL AREAS INSIDE AND OUTSIDE THE PROJECT LIMITS, WHICH ARE DISTURBED AS A RESULT OF THE PROJECT CONSTRUCTION, SHALL BE RESTORED TO ORIGINAL OR DESIGN GRADE AS APPLICABLE, AND SODDED AT THE CONTRACTORS EXPENSE, UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.
- 9. INDICATED LOCATION OF UNDERGROUND UTILITIES, STRUCTURES AND FACILITIES IS APPROXIMATE AND REFLECTS THE BEST INFORMATION AVAILABLE FROM SURVEYS AND AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND EXTENT OF UNDERGROUND FACILITIES PRIOR TO PROCEEDING WITH ANY CONSTRUCTION ACTIVITY WHICH MAY AFFECT SUCH FACILITIES. THE CONTRACTOR IS HEREBY ADVISED THAT SOME EXISTING UTILITIES MAY BE HAZARDOUS IF DAMAGED. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT 811 PRIOR TO BEGINNING CONSTRUCTION.
- 10. CAUTION MUST BE GIVEN TO LOCATE EXACT DEPTH OF ALL UTILITIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST AT NO ADDITIONAL COMPENSATION IF DEPTH IS INSUFFICIENT AS DETERMINED BY HCDU.
- 11. CONTRACTOR SHALL PROVIDE THE REQUIRED FIELD DENSITY TEST ON EACH LIFT FOR EVERY 500' OF PIPE PLACED.
- 12. THE CONTRACTOR SHALL RESTORE/REPAIR ANY AND ALL DAMAGE CAUSED BY THE CONSTRUCTION OF THE NEW WATER AND SEWER MAINS INCLUDING BUT NOT LIMITED TO DAMAGE DUE TO EXCAVATION, HEAVING, SETTLEMENT, JACK AND BORE OPERATIONS, HORIZONTAL DIRECTIONAL DRILLING OPERATIONS, SEPARATION OF PAVEMENT, CRACKED/BROKEN CONCRETE, ETC. AT NO COST TO HERNANDO COUNTY. IN THE EVENT THAT DAMAGE OCCURS THE CONTRACTOR SHALL PROVIDE A DETAILED REMEDIATION PLAN WHICH SHOWS HOW THE DAMAGE WILL BE REMEDIED. THE REMEDIATION PLAN MUST BE APPROVED BY HERNANDO COUNTY UTILITIES DEPARTMENT PRIOR TO COMMENCEMENT OF ANY WORK TO REPAIR THE DAMAGE. HOWEVER, TEMPORARY REPAIRS MAY BE PERFORMED WITH VERBAL APPROVAL FROM HERNANDO COUNTY UTILITIES DEPARTMENT.
- 13. EROSION CONTROL IS REQUIRED ALONG ENTIRE LENGTH OF PROJECT. APPROXIMATE LOCATION SHOWN IN THE PLANS IS FOR REFERENCE ONLY. CONTRACTOR TO HAVE FDEP QUALIFIED STORMWATER MANAGEMENT INSPECTOR DETERMINE APPROPRIATE TYPE AND LOCATION OF SILT FENCE AT TIME OF INSTALLATION. ADDITIONAL EROSION PROTECTION MAY BE REQUIRED ADJACENT TO CANALS OR WETLANDS.
- 14. CONTRACTOR SHALL COMPLY WITH OSHA'S STANDARDS 1926-1400 FOR VERTICAL AND HORIZONTAL CLEARANCES TO THE OVERHEAD DISTRIBUTION AND TRANSMISSION POWER LINES.
- 15. NO CONSTRUCTION ACTIVITY IS ALLOWED WITHIN FDOT RIGHT OF WAY UNLESS AN ACCESS PERMIT OR A TEMPORARY PERMIT IS APPROVED. LOCAL GOVERNMENT APPROVAL IS NOT AUTHORITY TO BEGIN WORK ON OR WITHIN RIGHT OF WAY.
- 16. CONTRACTOR TO STAKE EASEMENTS PRIOR TO INSTALLATION TO INSURE NEW FORCE MAIN IS INSTALLED WITHIN EASEMENTS. STAKING IS TO BE LEFT VISIBLE THROUGHOUT THE INSTALLATION PROCESS.

GENERAL NOTES
CORTEZ BOULEVARD PUMP STATION REPLACEMENT PROJECT



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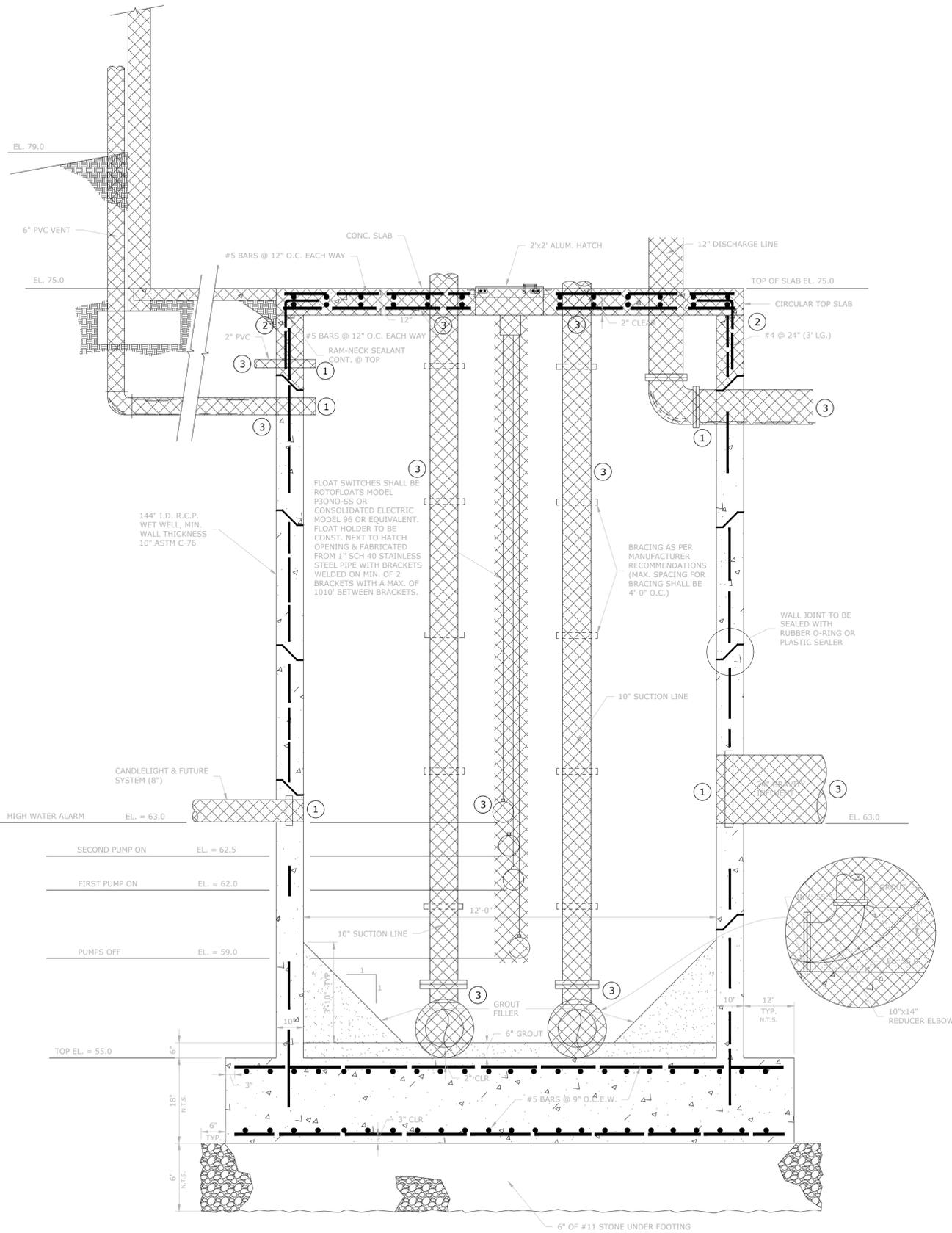
DATE	REV. BY	REV. NO.	DESCRIPTION
10/05/23	WFA	1	60% PLAN SUBMITTAL
07/12/2024	RAH	2	100% PLAN SUBMITTAL
03/25/2024	RAH	4	BID SET

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-02

JOB No.: 20073





WET WELL SECTION VIEW

SCALE: 1"=2'-0"

LEGEND

 DEMOLITION ITEMS



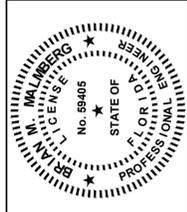
GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DEMOLISHED PIPING, EQUIPMENT AND MATERIALS. THE OWNER RESERVES THE RIGHT TO RETAIN PIPING, EQUIPMENT AND/OR MATERIALS ON SITE FOR THEIR USE. SUCH MATERIAL TO BE RETAINED SHALL BE PLACED IN AN ON-SITE STORAGE AREA, REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO THE OWNER AND ENGINEER. RETAINED EQUIPMENT SHALL BE REMOVED IN SUCH A WAY AS NECESSARY TO MAINTAIN ITS FUNCTIONAL AND PHYSICAL INTEGRITY.
2. THE CONTRACTOR SHALL KEEP A RECORD OF DEMOLITION AND LOCATION OF UTILITIES FOUND AS PART OF THE PROJECT RECORD DOCUMENTS.
3. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING EXISTING UTILITIES. THE SIZES, LOCATIONS, AND MATERIALS OF CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AS REQUIRED. ALL EXISTING UTILITIES THAT ARE TO REMAIN, AND ARE DAMAGED BY THE CONTRACTOR'S ACTIVITIES, SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. SEVERING THE EXISTING UTILITIES FOR ABANDONMENT, OR REMOVAL OF A SEGMENT FROM SERVICE, SHALL BE PERFORMED IN SUCH A MANNER AS TO ALLOW THE REMAINING ACTIVE SEGMENT TO CONTINUE IN ITS INTENDED SERVICE. CAP ACTIVE SEGMENTS WITH APPROPRIATE FITTING, JOINT RESTRAINT, ETC. TO ENSURE THEIR INTEGRITY. THE METHOD OF CAPPING SHALL BE REVIEWED WITH, AND ACCEPTABLE TO, THE ENGINEER.
5. ALL PIPING, EQUIPMENT AND MATERIALS TO BE DEMOLISHED AND/OR REMOVED FROM SERVICE MUST BE COORDINATED WITH THE OWNER AND ENGINEER BEFOREHAND.
6. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO ENSURE THAT ALL FLOWS, FLOW METERING AND LEVEL CONTROLS ARE MAINTAINED DURING CONSTRUCTION. GRAVITY, PUMPED BYPASSES OR OTHER MEANS OF FLOW MAINTENANCE SHALL BE REVIEWED WITH, AND ACCEPTABLE TO, OWNER AND THE ENGINEER. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY STOPPAGES WITH THE OWNER AND ENGINEER. CONTRACTOR SHALL VERIFY WITH OWNER/ENGINEER ALL VALVES, GATES, EQUIPMENT, ETC., ARE FUNCTIONAL PRIOR TO ASSUMING UTILIZATION FOR FLOW ISOLATION.
7. WHERE PIPING OR CONDUIT THAT IS TO BE REMOVED PASSES THROUGH THE WALL OF THE STRUCTURE, IT SHALL BE CUT OFF AS NEAR TO THE WALL AS PRACTICAL AND PROPERLY SEALED ON EACH SIDE OF THE WALL, OR AS SHOWN ON THE DRAWINGS. SEAL METHOD SHALL BE SUBJECT TO REVIEW AND ACCEPTANCE OF THE ENGINEER.
8. ALL WALL AND/OR FLOOR PENETRATIONS REMAINING AFTER THE REMOVAL OF PIPING OR CONDUIT ARE TO BE PATCHED AND FINISHED FLUSH TO MATCH EXISTING SURFACES.
9. REMOVE ALL WALL BRACKETS, PIPE HANGERS AND PIPE SUPPORTS NOT BEING RE-USED. PATCH BOLT HOLES TO MATCH THE EXISTING SURFACE.
10. WHERE PIPING AND/OR EQUIPMENT THAT IS NOTED AS ABANDONED INTERFERES WITH THE CONTRACTOR'S CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL REMOVE AND DISPOSE OF AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
11. ALL ANCHOR BOLTS TO BE REMOVED SHALL BE CUT/MELTED TO A MINIMUM OF 3/4-INCH BELOW EXISTING CONCRETE OR MASONRY SURFACES AND PATCHED/FILLED FLUSH TO SURFACE WITH NON-SHRINK GROUT.
12. CONTRACTOR TO NOTE A SCANNED IMAGE OF THE EXISTING DRAWINGS HAS BEEN USED FOR DEMOLITION. EXISTING INFORMATION HAS BEEN FADED BACK FOR CLARITY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR COMMENCING CONSTRUCTION. ELEVATIONS SHOWN ON DEMOLITION PLAN IS DATUM NGVD 29.
13. CONTRACTOR TO NOTE THAT CHANGES MAY HAVE BEEN MADE SINCE SCANNED RECORD DRAWINGS WERE PREPARED. IMAGES MAY NOT REFLECT ACTUAL FIELD CONDITIONS. IN SOME INSTANCES, THOSE EQUIPMENT, PIPING SYSTEMS, AND APPURTENANCES NOT SHOWN ON THE SCANNED IMAGES ARE SHOWN IN PHOTOGRAPHS WHERE NOTED.
14. COORDINATE WITH DIVISION 16-ELECTRICAL FOR ALL ELECTRICAL DEMOLITION AS SHOWN ON THE ELECTRICAL DRAWINGS.

DEMOLITION NOTES:

1. CAP/PLUG ALL DEMOLISHED AND UNUSED PENETRATIONS WATERTIGHT. REFER TO PROCESS DEMOLITION GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. REMOVE/DEMOLISH ALL ABOVE GROUND WET WELL AND VALVE APPURTENANCES INCLUDING, BUT NOT LIMITED TO ACCESS HATCH HARDWARE AND VENT PIPING IN THEIR ENTIRETY. CONTRACTOR TO REMOVE THE TOP SEGMENT PIECE TO THE FIRST JOINT.
3. REMOVE/DEMOLISH PIPING WITHIN WET WELL INCLUDING BUT NOT LIMITED TO VALVES, FITTINGS, AND ALL ASSOCIATED APPURTENANCES IN THEIR ENTIRETY. DEMOLISH PIPE SHOW TO WITHIN 6" OF STRUCTURE WALLS.
4. CONTRACTOR TO DRAIN AND PRESSURE WASH WET WELL.
5. WET WELL ANNULAR SPACES ARE TO BE FILLED WITH GROUT AND REPAIRED SMOOTH

WET WELL DEMOLITION PLAN
CORTEZ BOULEVARD PUMP
STATION REPLACEMENT PROJECT



Engineering
Planning
Surveying
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engineering associates, inc.

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03/25/2025	RAH	4	BID SET

SHEET
C-05

GENERAL NOTES:

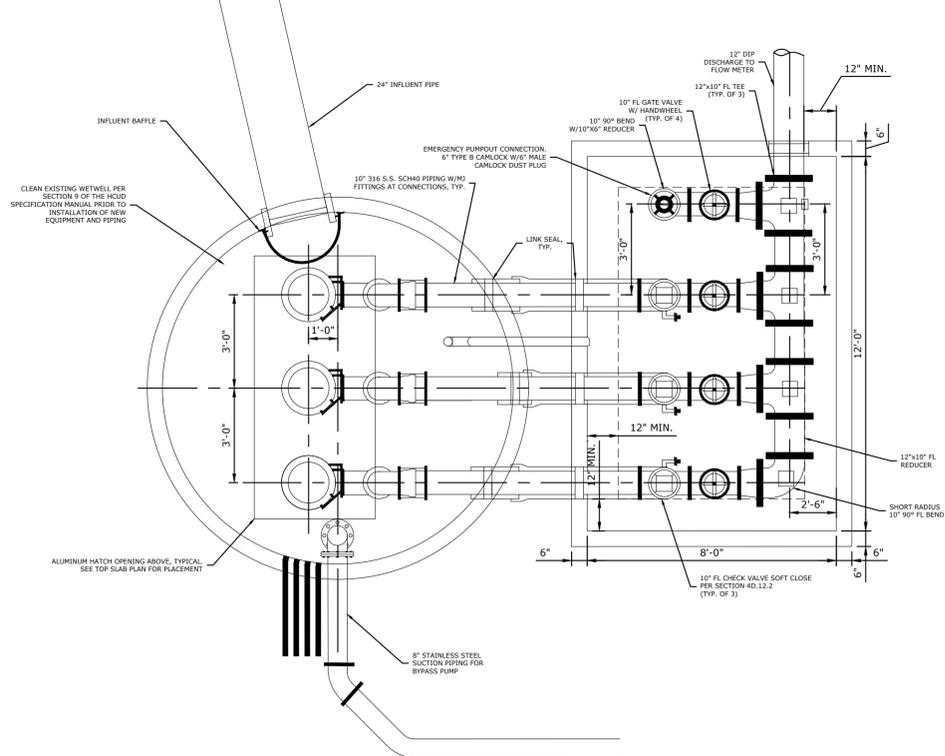
- CONTRACTOR SHALL GRADE BACKFILL/SOILS AROUND THE SLAB TO PREVENT SURFACE RUNOFF FROM ENTERING THE WET WELL DURING STORM EVENTS.
- TOP OF SLAB ELEVATION SHALL BE APPROXIMATELY 6" ABOVE FINISHED GRADE IN PROPOSED WET WELL LOCATION.
- ALL FLANGED PIPING SHALL BE MANUFACTURED TO THE REQUIRED LENGTHS. FIELD CUTS/FABRICATION OF FLANGED PIPING WILL NOT BE PERMITTED.
- WETWELL RISER AND VALVE VAULT SHALL BE PRECAST CONCRETE.
- WETWELL AND VALVE VAULT SHALL BE COATED OUTSIDE WITH COAL TAR EPOXY (TWO COATS, 8 MIL EACH), ALTERNATING COLORS BLACK AND WHITE. COAT INSIDE OF EACH STRUCTURE WITH 100% FUSED CALCIUM ALUMINATE MORTAR AS SPECIFIED OR AN APPROVED EQUAL. THE WET WELL SHALL BE VERIFIED TO BE WATERTIGHT PRIOR TO COATING.
- ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL SLEEVE/LINK SEAL.
- ALL HARDWARE (NUTS, BOLTS, ETC.) SHALL BE 316 SS THROUGHOUT.
- FLEXIBLE COUPLING SHALL BE SLEEVE TYPE.
- FOR CONTINUATION OF PIPING REFER TO SITE PIPING PLAN, SHEET C-04.
- CONTRACTOR TO COORDINATE WETWELL HATCH SIZE AND LOCATION WITH PUMP MANUFACTURER. LOCATION OF HATCHES MAY BE ADJUSTED WITH PRIOR REVIEW AND APPROVAL FROM THE ENGINEER.
- RESTRAIN PIPING TO PREVENT LATERAL MOVEMENT OF PIPING IN THE WETWELL AND VALVE PIT.
- ALL HARDWARE AND SUPPORTS IN WETWELL AND VALVE VAULT SHALL BE 316 SS.
- CONTRACTOR TO PROVIDE SS CLIP TO ANCHOR PUMP LIFTING CHAIN AT THE TOP OF WETWELL SUCH THAT OWNER CAN OPEN HATCH AND REACH FROM ABOVE.
- CHECK VALVES SHALL BE PROVIDED WITH POSITION SWITCHES SUPPLIED BY CHECK VALVE MANUFACTURER. REFER TO INSTRUMENTATION AND ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS. ALL CONCRETE SHALL BE COATED WITH IET COATING SYSTEM INSTALLED BY PAINTS AND COATINGS, INC.
- VALVE VAULT SHALL BE SIZED TO ALLOW EASY REMOVAL OF CHECK VALVES.
- VALVE VAULT SHALL HAVE SEALED FLOOR AND DRAIN TO THE WET WELL WITH A P-TRAP MINIMUM DRAIN SLOPE TO BE 0.5% SLOPE.
- ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL SLEEVE.
- PRECAST WETWELL EXTENSION (ASTM C-478 LATEST REVISION).
- THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
- WET WELL AND VALVE VAULT ACCESS HATCHES SHALL BE HEAVY DUTY ALUMINUM FRAME AND COVER WITH 316 S.S. HARDWARE AND LOCK BRACKET. SIZE APPROVED BY THE CITY. PROVIDE SLAM LOCKS EACH LID. EACH HATCH IS TO BE LEAK-PROOF (ON A CASE BY CASE BASIS IN FLOOD PLAINS AND AREAS WHERE THERE IS QUESTIONABLE STORM WATER DRAINAGE) AT A STATIC WATER HEIGHT OF 7 FEET ABOVE HATCH. ALL HATCH COVERS SHALL HAVE A HOLD OPEN LATCH.
- ALL WET WELL ACCESS HATCHES, FRAMES AND COVERS SHALL HAVE AN ALUMINUM SAFETY GRATE INSTALLED THAT IS SET BELOW THE ACCESS COVERS AND SHALL NOT INTERFERE WITH SECURING THE COVERS. GRATE SHALL BE HINGED ON THE SAME SIDE AS THE COVER AND SHALL NOT IMPIDE REMOVAL AND INSTALLATION OF THE PUMP WHEN FULLY OPENED. CONTRACTOR TO FIELD VERIFY ALL EXISTING WETWELL AND VALVE VAULT DIMENSIONS.
- FLEXIBLE COUPLING SHALL BE SLEEVE TYPE. COUPLINGS ARE TO BE RODDED BACK TO THE NEAREST FITTING WITH 316 SS RODS AND HARDWARE.
- ALL HARDWARE IN CONTROL PANEL, WET WELL AND VALVE BOX TO BE 316 STAINLESS STEEL.
- LIQUID LEVEL CONTROL CABLES TO BE IN ONE CONDUIT, POWER CABLES TO BE IN A SEPARATE CONDUIT.
- PUMPS SHALL BE SELECTED SO THE MOTORS SHALL NOT BE OVERLOADED ALONG THE ENTIRE EXTENT OF THE PUMP CURVE.
- LIFT STATION SHALL BE FURNISHED WITH A FRESH WATER WASH DOWN WITH BACKFLOW PREVENTER.
- CONTRACTOR SHALL COORDINATE WITH OWNER ON EXACT DEPTH OF ALARM SIGNALS.
- CONTROL PANEL SHALL BE ROTATED TO ENSURE THE OPERATOR'S BACK IS NOT TO AN OPEN WELL HATCH.
- VENT PIPING AND ELECTRICAL CONTROL PANEL SHALL BE RAISED ABOVE 100-YEAR FLOOD ELEVATION.

STRUCTURE NOTES:

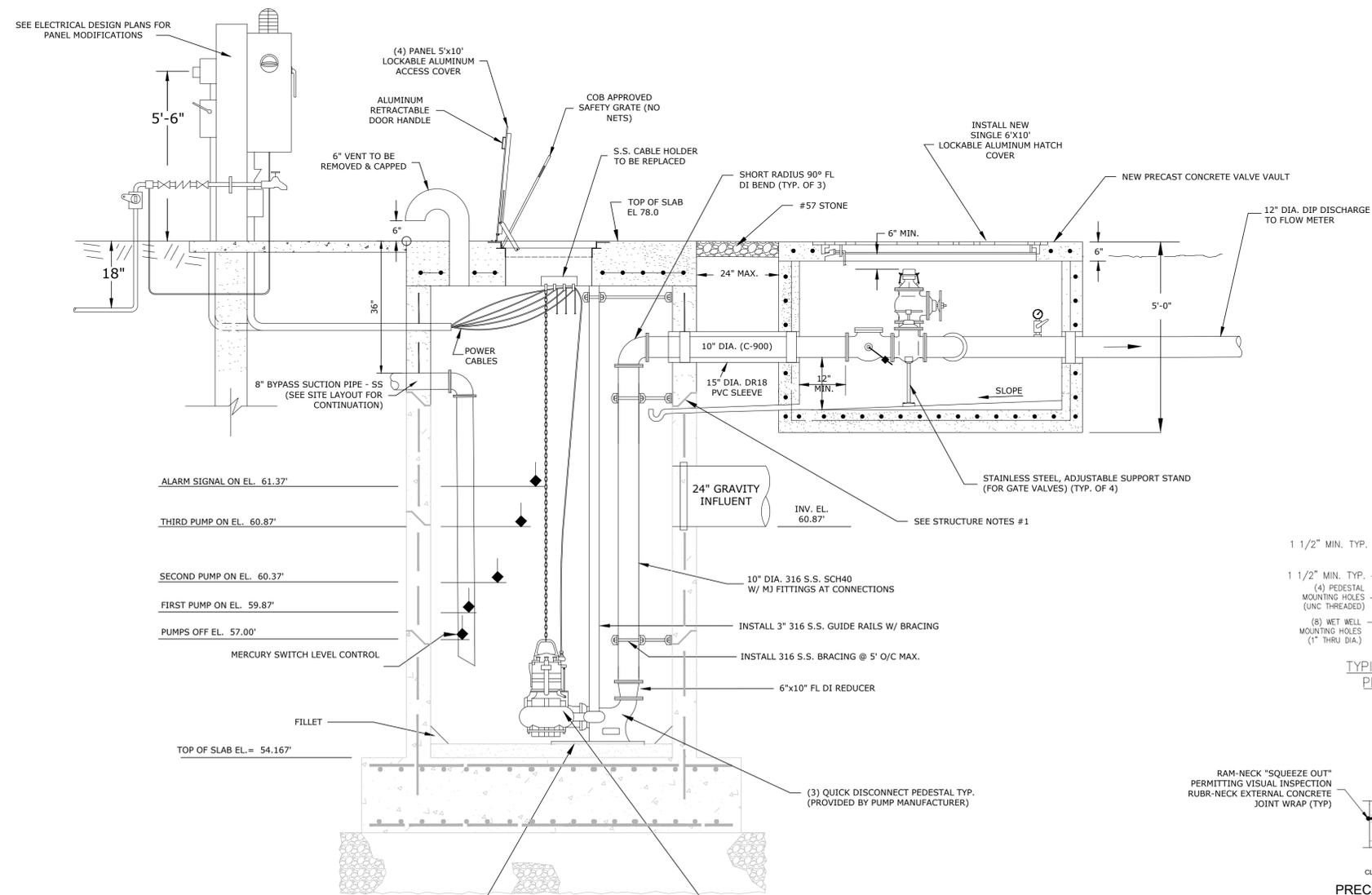
- CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING INTERIOR PIPING, FITTINGS, ELECTRICAL CABLE, MECHANICAL COMPONENTS, ETC. FROM THE WET WELL AND VALVE VAULT.
- EXISTING PUMPS SHALL BE REMOVED AND PROVIDED TO THE OWNER.
- CONTRACTOR SHALL CLEAN INTERIOR SURFACES OF THE WET WELL TO BARE CONCRETE.
- CONTRACTOR TO INSPECT THE WETWELL STRUCTURE BEFORE PICKING A SUPPLIER TO INSURE THE JOINTS MATCH AS SPECIFIED BY ASTM C-478. CONTRACTOR TO MATCH THE JOINTS CLOSE ENOUGH AND INSTALL A NEW RISER SEGMENT.
- CONTRACTOR TO USE RAM-NEK JOINT SEALANT.

PROCESS GENERAL NOTES:

- ALL EQUIPMENT AND PIPING LAYOUT DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH EQUIPMENT SUPPLIER, AND/OR EXISTING CONDITIONS. SOME INFORMATION ASSOCIATED WITH EXISTING STRUCTURES, PIPING AND EQUIPMENT LOCATIONS, ELEVATIONS AND SIZES, WERE TAKEN FROM AVAILABLE RECORD DRAWINGS, AND CITY PERSONEL KNOWLEDGE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES, EQUIPMENT OR PIPING THAT MAY BE AFFECTED.
- ALL BURIED CONNECTIONS TO STRUCTURES, INCLUDING BUT NOT LIMITED TO CONNECTIONS TO MANHOLES, SHALL HAVE SLEEVE TYPE FLEXIBLE CONNECTIONS APPROXIMATELY 4- FEET FROM THE STRUCTURES.
- PROVIDE CAST OR DUCTILE IRON WALL CASTINGS, OR GALVANIZED STEEL PIPE SLEEVES, FOR ALL PIPE PENETRATIONS MADE THROUGH CONCRETE FOUNDATIONS, WALLS AND SLABS, UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WALL SLEEVES AND WALL CASTINGS SHALL HAVE SEALING/ANCHORING COLLARS. NEW PENETRATIONS THROUGH EXISTING STRUCTURE WALLS SHALL BE BY CORING MACHINE AND LINK TYPE COMPRESSION SEALS, UNLESS OTHERWISE INDICATED. OPENINGS TO BE COMPATIBLE WITH REQUIRED PIPING AND STANDARD LINK SEAL SIZES. FOR ADDITIONAL INFORMATION, REFER TO HERNANDO COUNTY UTILITIES DEPARTMENT, WATER, RECLAIMED WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS MANUAL, LATEST EDITION.
- FOR PIPING MATERIAL, SEE THE PIPE SCHEDULE IN SPECIFICATION SECTION 15050.
- ALL PIPES SHALL BE ADEQUATELY RESTRAINED AND SUPPORTED IN ACCORDANCE WITH HCUD WATER, RECLAIMED WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS MANUAL, LATEST EDITION.
- AFTER INSTALLATION, ALL PIPELINES SHALL BE PRESSURE TESTED FOR TIGHTNESS IN ACCORDANCE WITH HCUD WATER, RECLAIMED WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS MANUAL, LATEST EDITION. ALL LEAKS SHALL BE CORRECTED AND RETESTED UNTIL PRESSURE TEST IS SATISFACTORILY COMPLETED.
- ALL PIPING SHALL BE CLEANED, TO THE SATISFACTION OF THE ENGINEER, BEFORE TESTING.
- ALL PENETRATIONS BETWEEN CLASS 1, DIVISION 1 AREAS AND UNCLASSIFIED AREAS SHALL BE GAS TIGHT.
- WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH, AND INSTALL ADAPTERS, FITTINGS AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE INSTALLATION. THE USE OF UNI-FLANGES WILL NOT BE ALLOWED UNLESS INDICATED ON THE DRAWINGS.
- ALL STAINLESS STEEL FASTENERS FOR PIPING, EQUIPMENT, SUPPORTS, ETC., SHALL BE HAND TIGHTENED IN ORDER TO LIMIT THE POTENTIAL FOR GALLING.

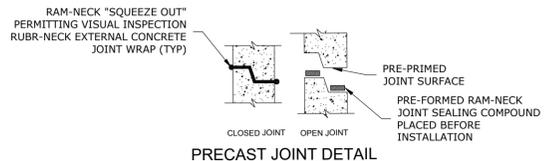
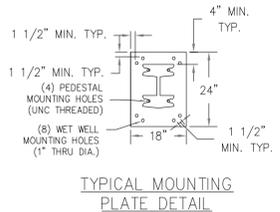


PLAN VIEW
NOT TO SCALE



SEE TYPICAL MOUNTING PLATE DETAIL - 18" X 24" CARBON STEEL PLATE, 1" THK (2X). AFFIX PLATE TO WET WELL VIA 3/16" X 7" EXPANSION (WEDGE) ANCHORS (4X). ACTUAL HOLE DIA & PLACEMENT SHALL BE DICTATED BY THE PEDESTAL BOLT HOLE PATTERN. PEDESTAL MOUNTING BOLTS SHALL BE GRADE 8 AND HAVE UNC THREADS (4X). COAT MOUNTING BOLT THREADS WITH ANTI-SEIZE LUBRICANT PRIOR TO INSTALLATION.

SECTION VIEW
NOT TO SCALE



PUMP SPECIFICATIONS & DESIGN CONDITIONS

MODEL: FLYGT-NP 3301 HT3-466	HP: 105 HP
VOLTAGE: 440 V	PHASE: 3
DISCHARGE: 6"	IMPELLER: 350 mm
GPM: 1262 GPM	TDH: 131'

PUMP STATION DIMENSIONS

WETWELL DIAMETER	12'-0"
DISTANCE BETWEEN CENTERLINE OF PUMPS	3'-0"
VALVE VAULT LENGTH	8'-0"
VALVE VAULT WIDTH	12'-0"
VALVE VAULT DEPTH	5'-0"

SEE SITE PLAN FOR CONTROL PANEL ORIENTATION

PUMP STATION DETAIL
CORTEZ BOULEVARD PUMP STATION REPLACEMENT PROJECT

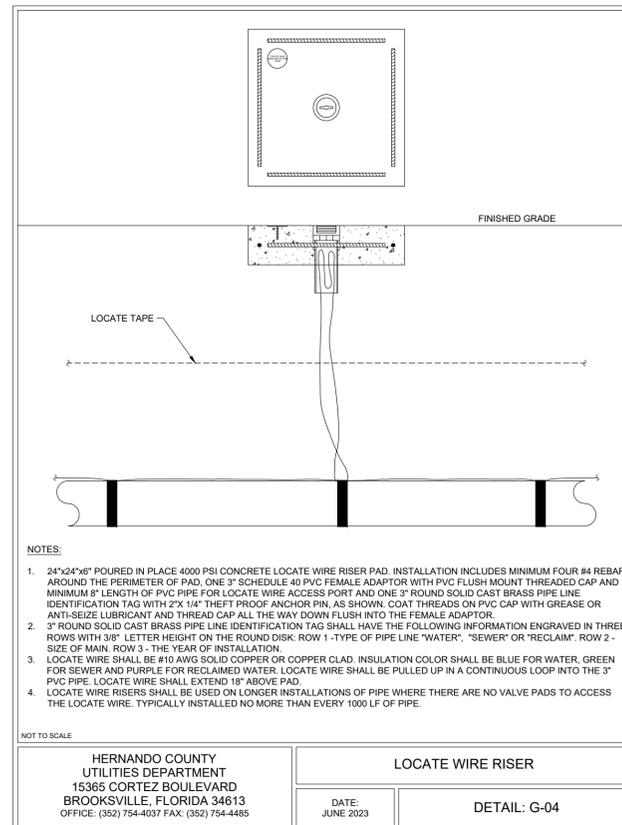
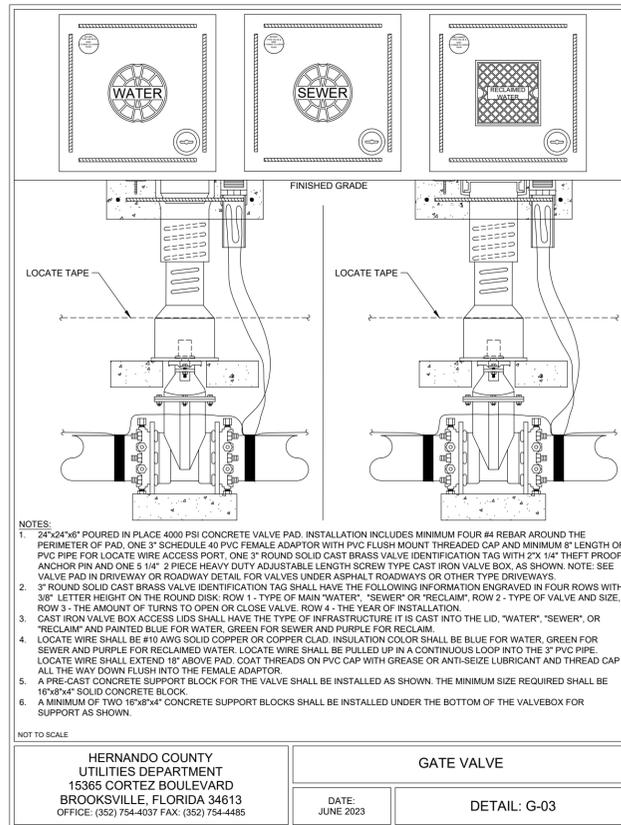
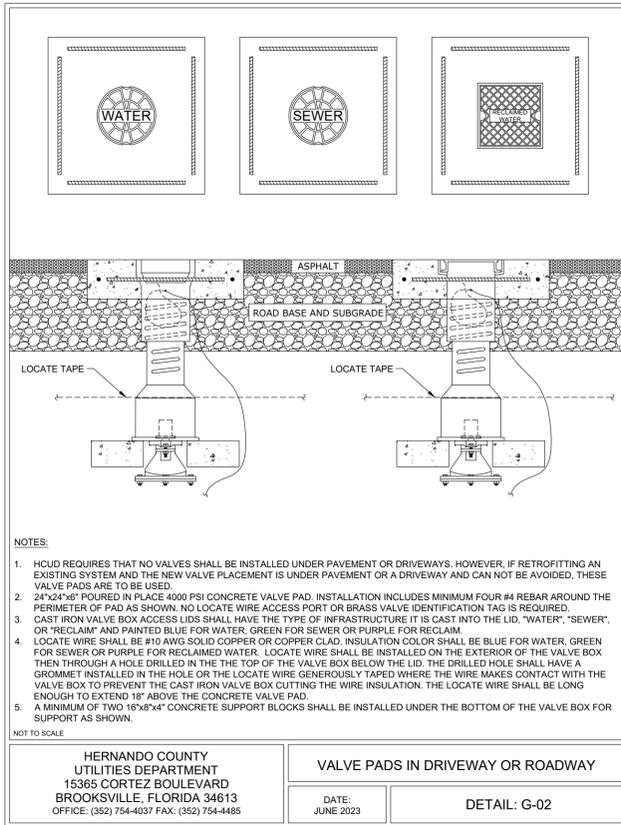
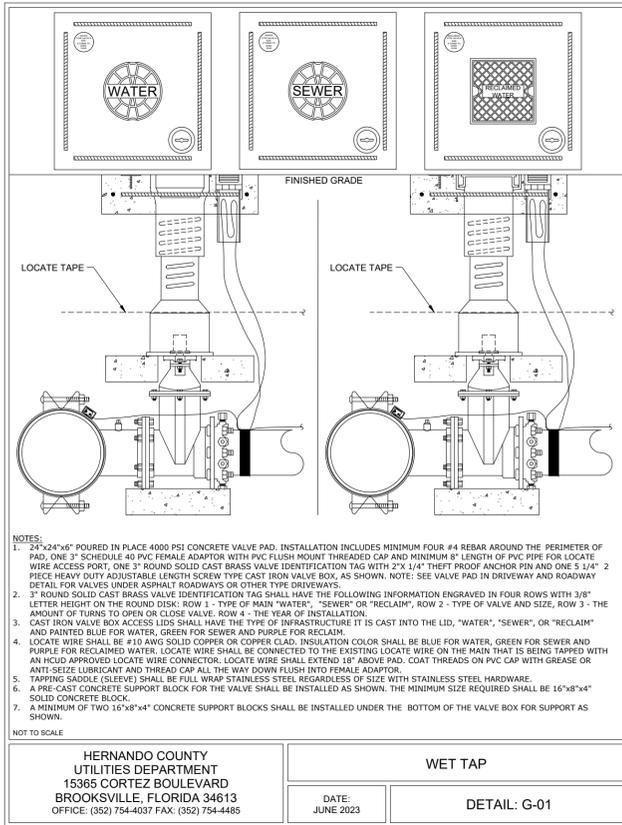


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DATE	REV. BY/REV. NO.	DESCRIPTION
10/6/23	WFA	60% PLAN SUBMITTAL
07/12/2024	RAH	100% PLAN SUBMITTAL
08/1/2024	LMI	100% PLAN SUBMITTAL
03/25/2024	RAH	BID SET

SHEET
C-06
WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"



NOTE:
THE CITY OF BROOKSVILLE WILL BE USING HERNANDO COUNTY SPECIFICATIONS FOR THIS PROJECT.

PIPE SIZE (INCHES)	4	6	8	10	12	14	16	18	20	24
11 1/2" BEND	2(3)	3(4)	4(5)	5(6)	6(6)	8(7)	7(8)	8(9)	9(9)	8(11)
22 1/2" BEND	5(5)	8(7)	8(9)	9(11)	11(12)	12(14)	13(16)	15(17)	16(18)	18(21)
45" BEND	9(10)	12(14)	16(16)	19(22)	22(25)	25(26)	27(32)	30(35)	33(38)	37(43)
90" BEND	21(24)	29(33)	37(44)	44(52)	52(60)	59(68)	65(76)	72(83)	78(91)	90(104)
CAPPED END *	43(61)	59(85)	78(111)	93(132)	109(155)	124(177)	139(198)	153(218)	167(238)	194(277)
IN-LINE VALVE **	35(50)	49(71)	64(92)	77(111)	90(130)	103(148)	115(165)	128(182)	139(198)	160(230)

DUCTILE IRON PIPE RESTRAINED JOINTS FOR HORIZONTAL FITTINGS

PIPE SIZE (INCHES)	4	6	8	10	12	14	16	18	20	24
11 1/2" BEND	5(6)	6(9)	8(11)	10(13)	11(16)	13(18)	14(20)	15(22)	17(24)	20(28)
22 1/2" BEND	9(12)	12(17)	16(22)	19(27)	22(31)	25(36)	28(40)	31(44)	34(48)	39(56)
45" BEND	18(25)	25(35)	32(46)	39(55)	45(65)	52(73)	58(82)	64(91)	69(99)	81(115)
90" BEND	43(61)	59(85)	78(111)	93(132)	109(155)	124(177)	139(198)	153(218)	167(238)	194(277)

DUCTILE IRON PIPE RESTRAINED JOINTS FOR VERTICAL FITTINGS

RADIUS (INCHES)	BRANCH (INCHES)									
	4	6	8	10	12	14	16	18	20	24
4	21(30)									
6	11(15)	38(54)								
8	0(0)	31(44)	56(79)							
10	0(0)	23(32)	50(71)	71(101)						
12	0(0)	15(21)	44(62)	66(94)	87(123)					
14	0(0)	6(9)	37(53)	61(87)	82(117)	101(144)				
16	0(0)	0(0)	31(44)	56(79)	78(111)	98(139)	116(166)			
18	0(0)	0(0)	24(34)	50(71)	73(105)	94(134)	113(161)	130(185)		
20	0(0)	0(0)	17(24)	45(63)	69(98)	90(128)	109(156)	127(181)	144(205)	
24	0(0)	0(0)	2(3)	33(46)	59(84)	81(116)	102(146)	121(172)	138(197)	171(244)

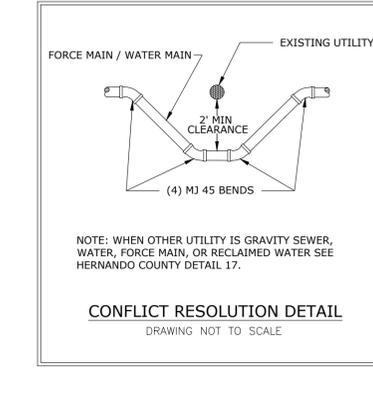
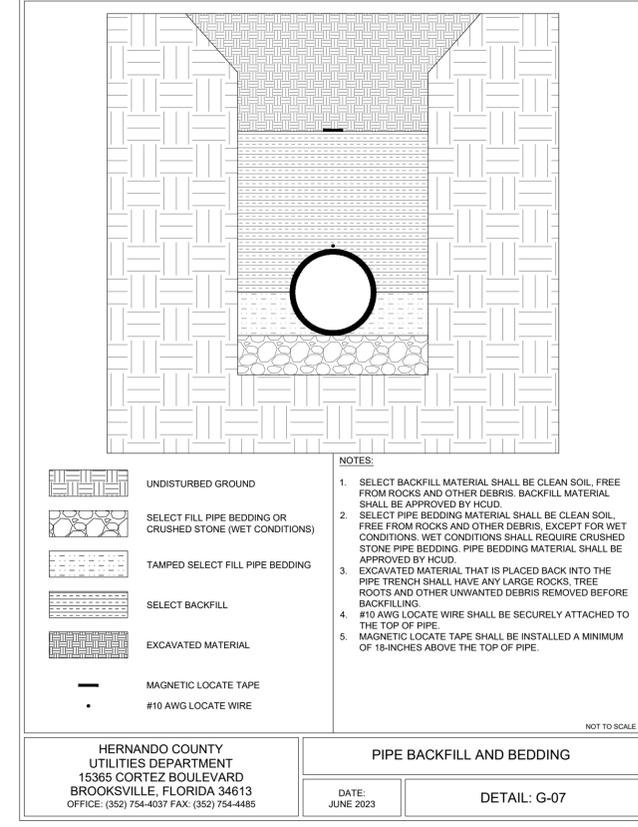
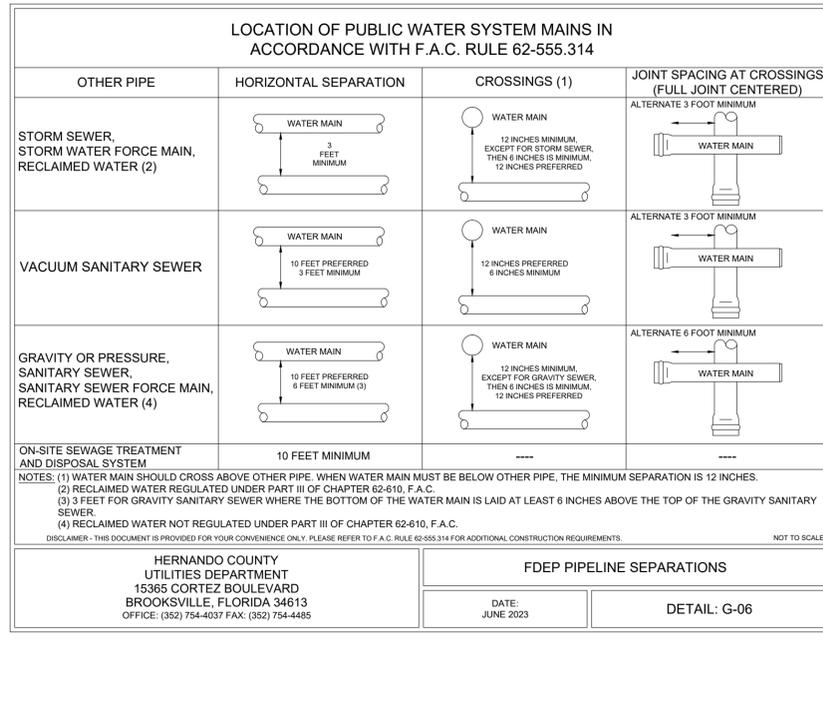
DUCTILE IRON PIPE TEE RESTRAINED JOINTS

NOTES:
1. THE PROGRAM "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" FROM THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) WEB SITE WAS USED TO CALCULATE THE LENGTH OF RESTRAINED JOINTS. THE CALCULATIONS ARE BASED ON TYPE 3 LAYING CONDITIONS, SANDY/SILT CLAY SOIL DESIGNATION, 3.0 FEET MINIMUM COVERAGE AND 150 PSI OPERATING PRESSURE WITH A 1.5 TO 1 SAFETY FACTOR. THE FEET SHOWN ARE MINIMUM REQUIREMENTS.
2. THE NUMBER IN PARENTHESES REPRESENTS LINEAR FEET OF RESTRAINT FOR PVC PIPE AND POLY WRAPPED DUCTILE IRON PIPE.
3. THE LINEAR FEET OF PIPE IS MEASURED FROM THE FITTING OR VALVE OUT TO THE AMOUNT SHOWN ON THE CHART. ANY BELL OR JOINT WITHIN THAT MEASUREMENT SHALL HAVE A BELL OR JOINT RESTRAINT INSTALLED.
4. ALL BEND FITTINGS SHALL HAVE RESTRAINTS INSTALLED PER THE CHART IN BOTH DIRECTIONS.
5. BRANCH SIDE OF TEE IS TO BE RESTRAINED PER THE CHART.

* CAPPED ENDS ALSO INCLUDES VALVES INSTALLED AT THE END OF THE PIPE
** IN-LINE VALVES SHALL BE RESTRAINED IN BOTH DIRECTIONS THE AMOUNT SHOWN ON CHART.

HERNANDO COUNTY UTILITIES DEPARTMENT
15365 CORTEZ BOULEVARD
BROOKSVILLE, FLORIDA 34613
OFFICE: (352) 754-4037 FAX: (352) 754-4485

DATE: JUNE 2023
DETAIL: G-05



DETAILS (1)
CORTEZ BOULEVARD PUMP STATION REPLACEMENT PROJECT



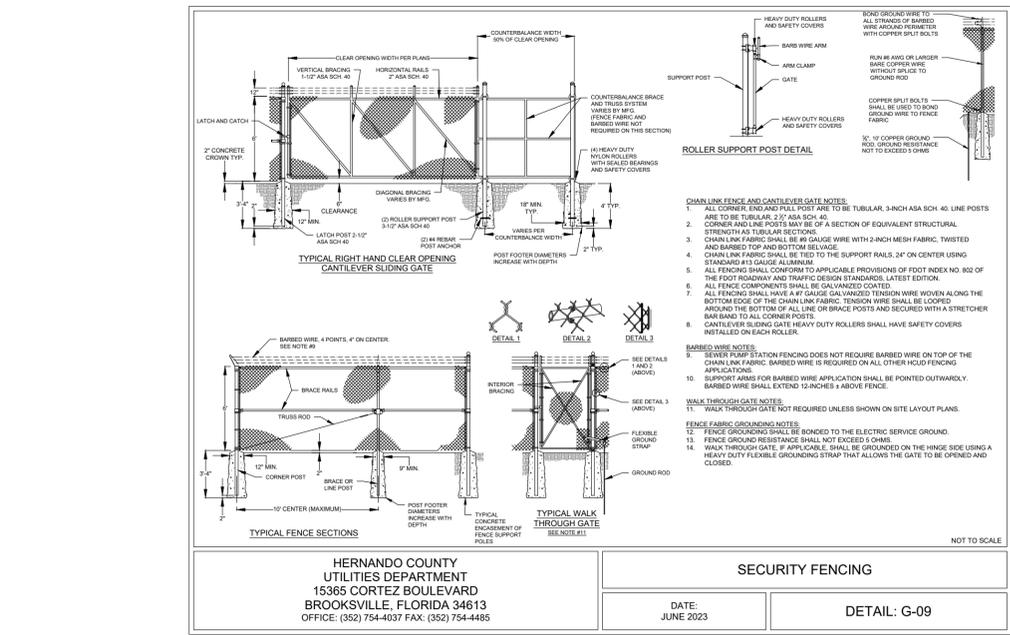
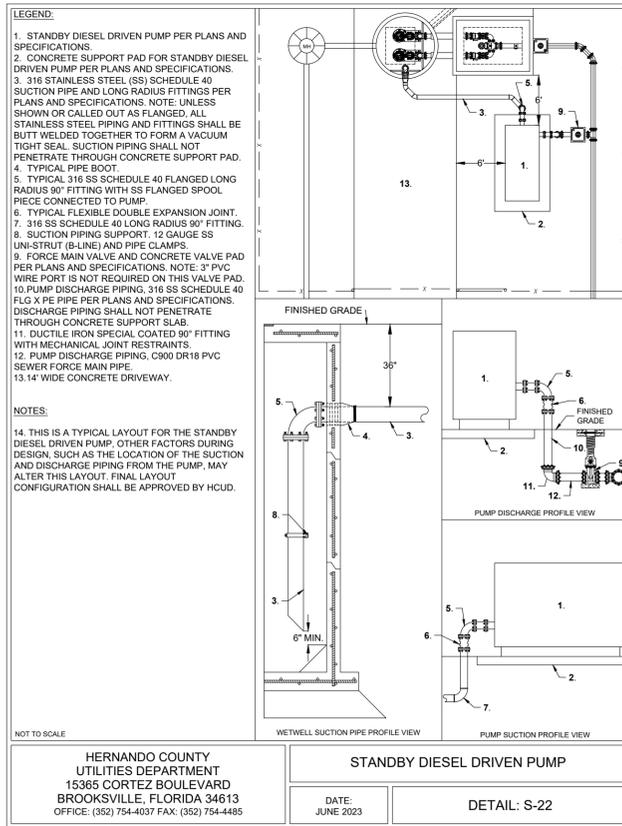
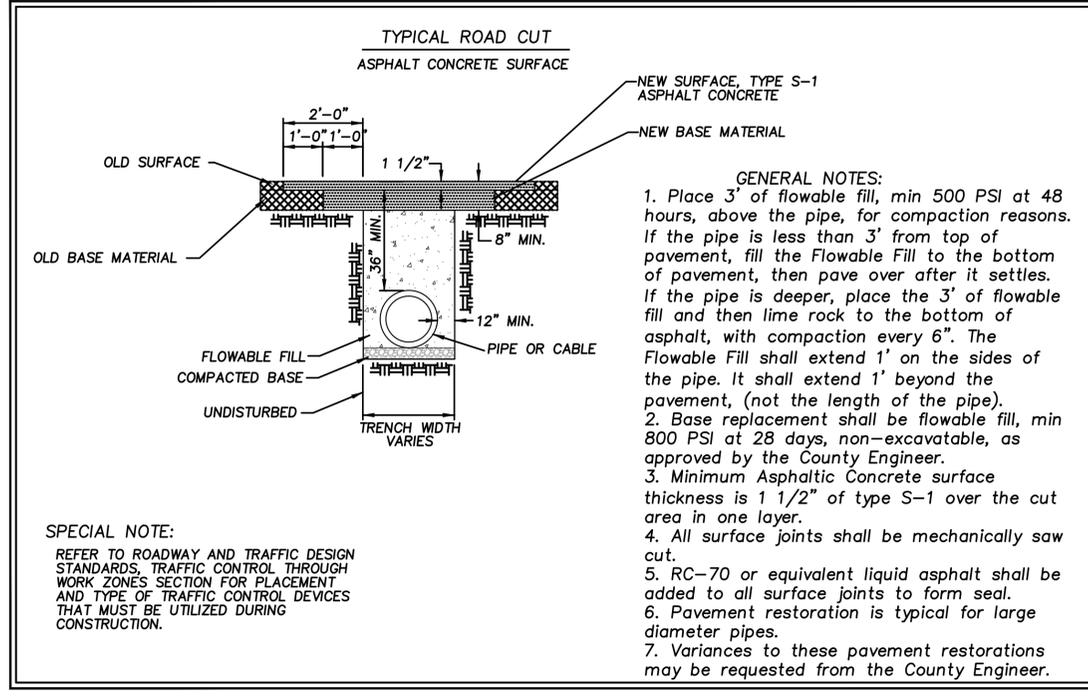
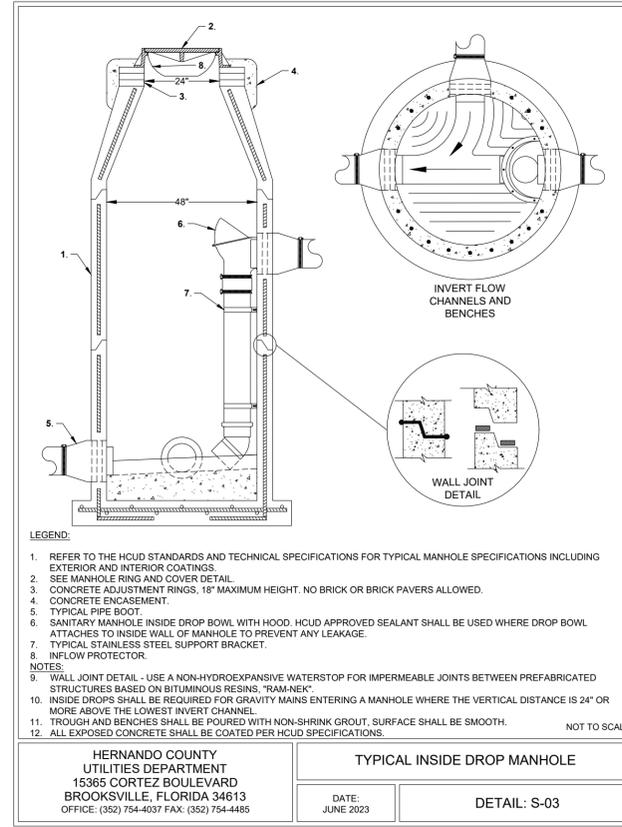
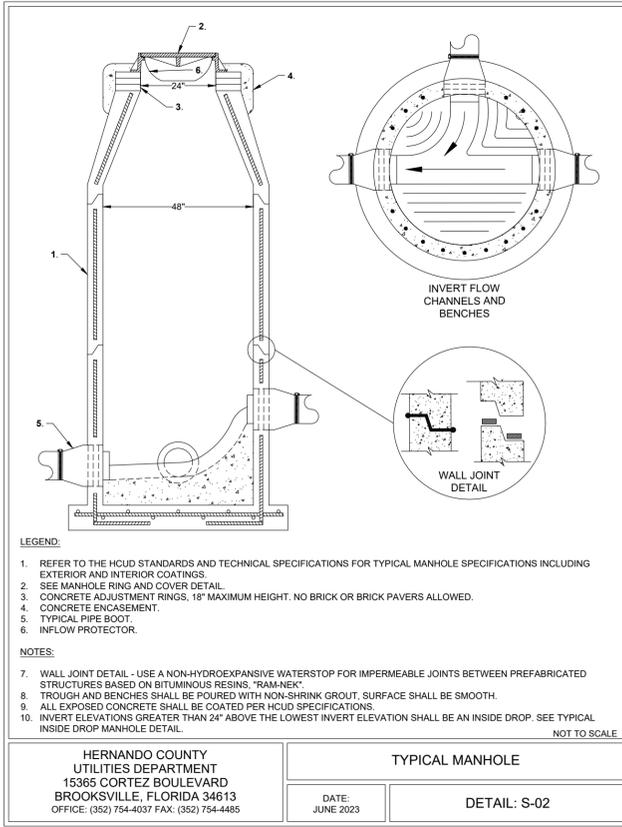
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07/12/2024	RAH	2	100% PLAN SUBMITTAL
03/25/2024	RAH	4	BID SET

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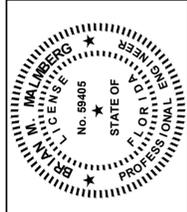
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C-07
JOB No.: 20073



NOTE:
THE CITY OF BROOKSVILLE WILL BE USING HERNANDO COUNTY SPECIFICATIONS FOR THIS PROJECT.

DETAILS (2)

CORTEZ BOULEVARD PUMP STATION REPLACEMENT PROJECT



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C-08

JOB No.: 20073