



REQUEST FOR PROPOSALS ADDENDUM

RFP-DPW-2025-0006

Cortez Blvd (SR 50) Pump Station Replacement Project

ADDENDUM #6

Date Issued: April 17, 2025

TO: All prospective proposers:

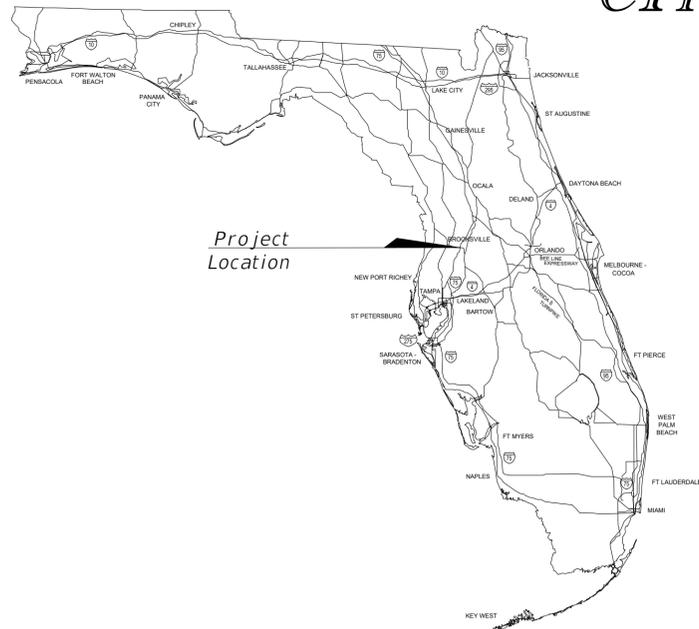
You are hereby notified that this Addendum shall be attached to and made a part of the above-named solicitation and contract documents, as follows:

UPDATED Construction and Site Plans

REMAINDER OF PAGE LEFT BLANK

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 5

CITY COUNCIL MEMBERS

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

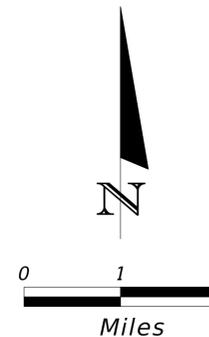
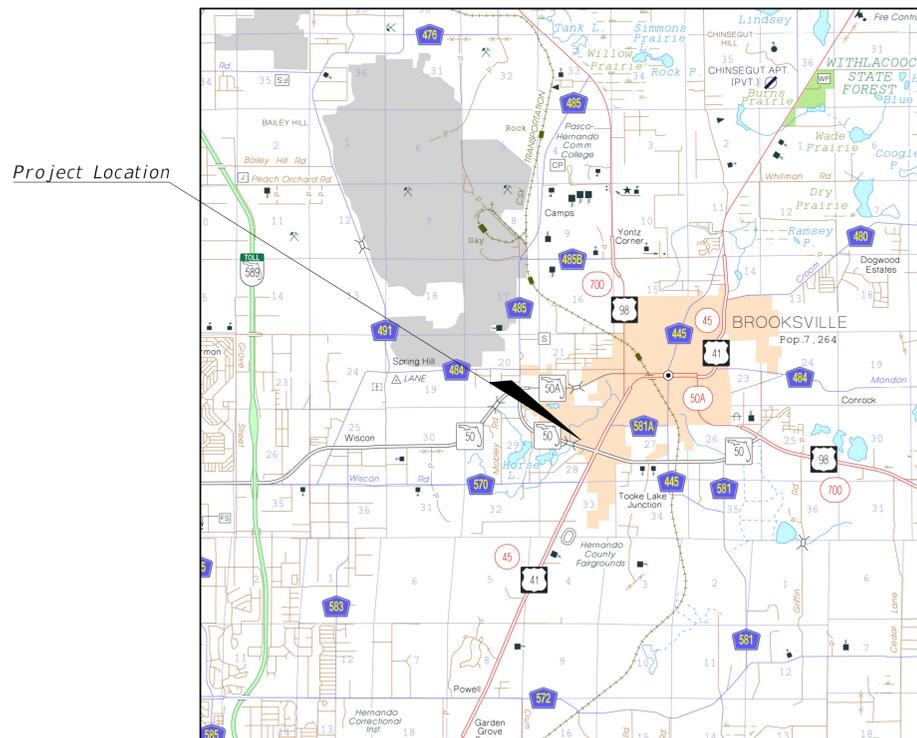
PUBLIC WORKS DIRECTOR

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

UTILITIES OPERATION MANAGER

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

COASTAL ENGINEERING PROJECT #20073



Sheet List

C-01	COVER SHEET
C-02	GENERAL NOTES
C-03	PUMP STATION DEMOLITION PLAN
C-04	PUMP STATION SITE PLAN
C-05	BY-PASS PUMPING PLAN
C-06	WET WELL DEMOLITION PLAN
C-07	PUMP STATION DETAIL
C-08	DETAILS (1)
C-09	DETAILS (2)
E0.1	Electrical Legend & Specifications
E1.0	Electrical Site Plan
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

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

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

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

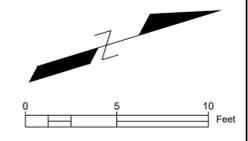
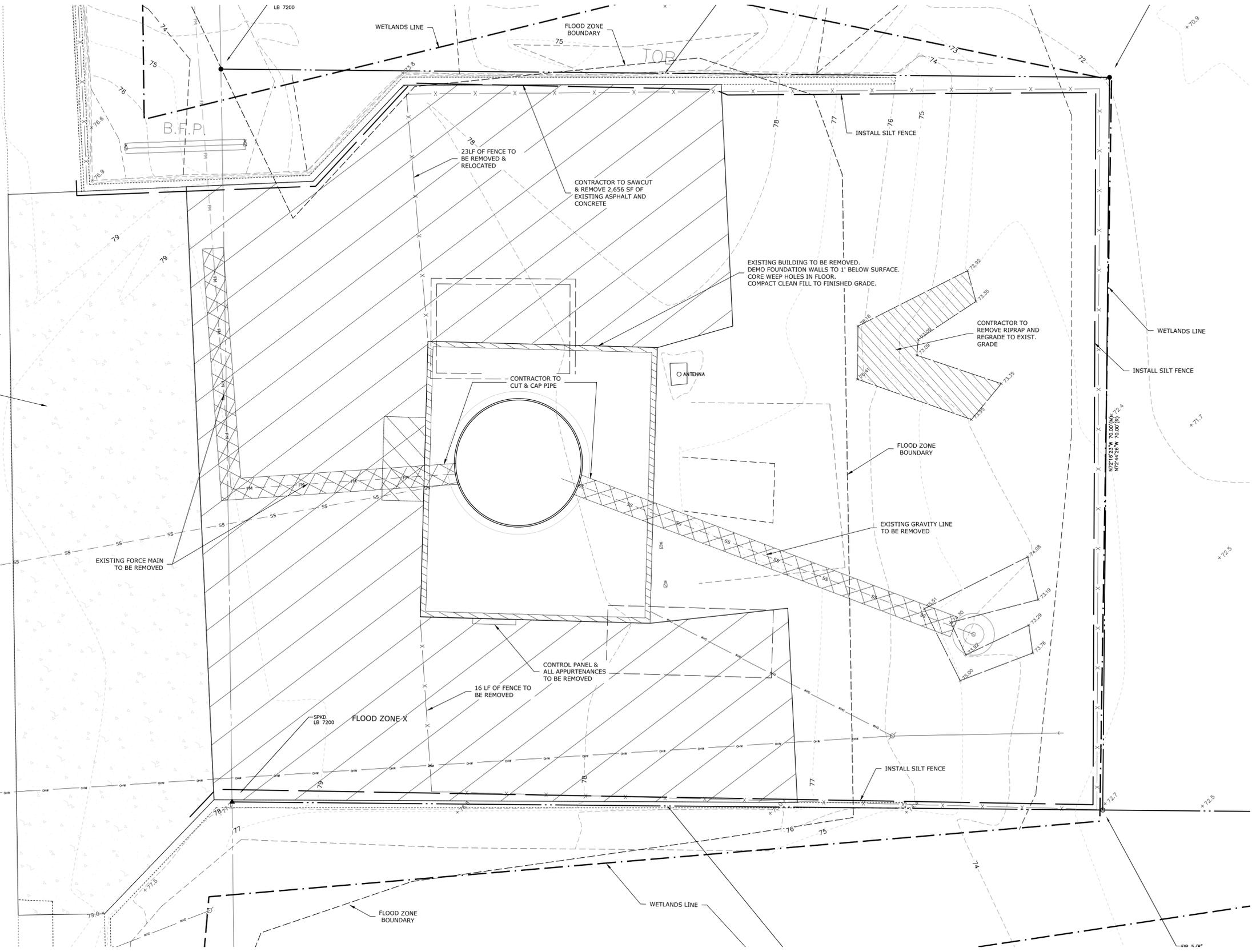


DEMOLITION NOTES:

1. DEMOLISH AND REMOVE EXISTING BUILDING TO ONE FOOT BELOW OUTSIDE GRADE AND ONE FOOT BELOW AND AROUND ANY NEW PIPING.
2. CORE DRILL HOLES IN EXISTING CONCRETE FLOOR TO PROVIDE DRAINAGE.
3. DEMOLISH AND REMOVE ASPHALT DRIVEWAY AND CONCRETE SLAB AS INDICATED.
4. REMOVE CHAIN LINK FENCE AS INDICATED.
5. REMOVE EXISTING FORCE MAIN AND GRAVITY LINES AS INDICATED.
6. REMOVE EXISTING PUMPS INTERNAL WORKINGS, AND CONTROL PANEL CONDUITS OF EXISTING LIFT STATION.
7. SALVAGE EXISTING PUMPS, CONTROL PANELS, ODOR CONTROL AND ACCESS HATCHES. SALVAGED ITEMS SHALL INCLUDE REMOVAL OF ALL HARDWARE AND ACCESSORIES AS DIRECTED BY CITY OF BROOKSVILLE, DEPARTMENT OF UTILITIES. ALL SALVAGED ITEMS SHALL BE CAREFULLY DISASSEMBLED, CLEANED, TRANSPORTED AND UNLOADED TO OWNER'S FACILITIES AS DIRECTED. CONTRACTOR SHALL CLEAN PRIOR TO TRANSPORTING.
8. THE CONTRACTOR WILL KEEP THE AREA IN WHICH THEY ARE WORKING FREE OF DEBRIS, TRASH GARBAGE AND OTHER OFFENSIVE WASTE MATERIAL AND KEEP ALL CONSTRUCTION MATERIALS STOCKPILED IN A NEAT, ORDERLY MANNER. UPON COMPLETION OF ANY STAGE OF WORK IN ANY AREA, ALL DEBRIS, TRASH, LITTER, CONSTRUCTION MATERIAL, ETC. IS TO BE REMOVED AND THE AREA LEFT IN SUITABLE CONDITION FOR THE NEXT STAGE OF CONSTRUCTION OR FOR THE USE OF THE OWNER.
9. ON PAVED SURFACES THE CONTRACTOR SHALL ATTEMPT TO AVOID THE USE OF TRACTORS, BULLDOZERS OR OTHER POWER-OPERATED EQUIPMENT WHICH WOULD DAMAGE SUCH SURFACES. ALL SURFACES WHICH HAVE BEEN DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY BEFORE WORK WAS BEGUN. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
10. EXCESS EXCAVATED MATERIAL AND MATERIAL NOT CLAIMED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

CORTEZ BOULEVARD

- LEGEND:**
- EXISTING CONCRETE TO BE REMOVED
 - EXISTING ASPHALT DRIVEWAY TO BE REMOVED
 - EXISTING GRAVITY SEWER AND FORCE MAIN TO BE REMOVED
 - EXISTING CONCRETE PAVEMENT TO REMAIN



PRINTED: 04/17/2025 - 12:14pm PATH: L:\20073\COB_PS_Rep\dwg\ENG\Current\20073-SP.dwg

PUMP STATION DEMOLITION PLAN
CORTEZ BOULEVARD PUMP STATION REPLACEMENT PROJECT



Coastal
 engineering associates, inc.
 966 Candlelight Boulevard - Brooksville, Florida 34601
 (352) 796-9423 - Fax (352) 799-4359
 EB-0000142

REUSE OF DOCUMENT
 THIS DOCUMENT COMPRISED BY THE INDEPENDENT PROFESSIONALS AS AN INSTRUMENT OF PROFESSIONAL SERVICE. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN AUTHORIZATION OF COASTAL ENGINEERING ASSOCIATES, INC.
 DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL

DATE	REV. BY/REV. NO.	REVISION
10/6/23	WTA 1	60% PLAN SUBMITTAL
07/12/2024	RAH 2	100% PLAN SUBMITTAL
03/25/2024	RAH 4	BID SET
04/17/2025	RAH 5	BID SET

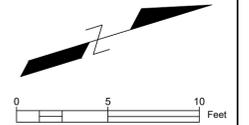
SHEET
C-03
 WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"
 JOB No.: 20073

CONSTRUCTION NOTES:

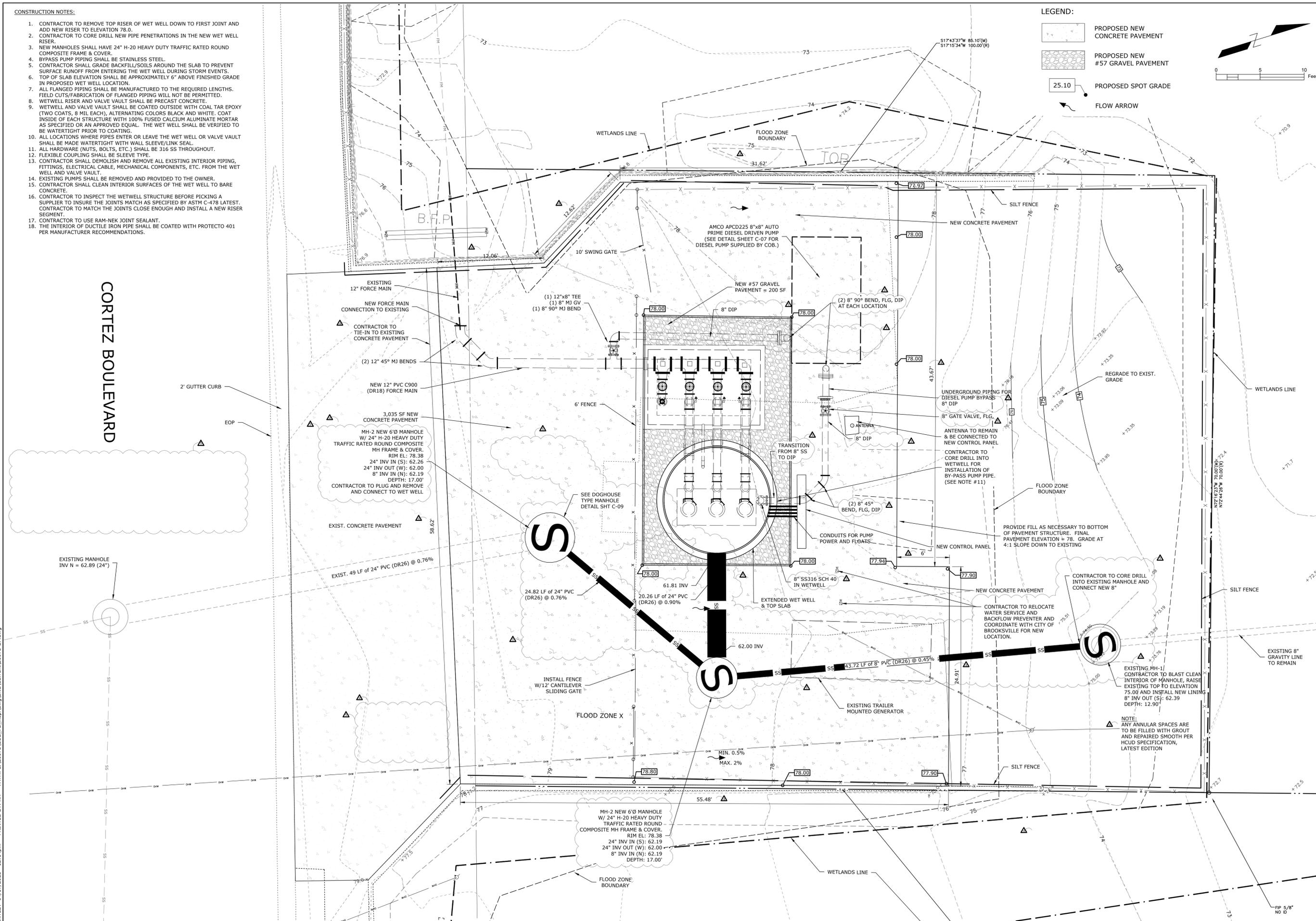
- CONTRACTOR TO REMOVE TOP RISER OF WET WELL DOWN TO FIRST JOINT AND ADD NEW RISER TO ELEVATION 78.0.
- CONTRACTOR TO CORE DRILL NEW PIPE PENETRATIONS IN THE NEW WET WELL RISER.
- NEW MANHOLES SHALL HAVE 24" H-20 HEAVY DUTY TRAFFIC RATED ROUND COMPOSITE FRAME & COVER.
- BYPASS PUMP PIPING SHALL BE STAINLESS STEEL.
- 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.
- 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 LATEST. CONTRACTOR TO MATCH THE JOINTS CLOSE ENOUGH AND INSTALL A NEW RISER SEGMENT.
- CONTRACTOR TO USE RAM-NEK JOINT SEALANT.
- THE INTERIOR OF DUCTILE IRON PIPE SHALL BE COATED WITH PROTECTO 401 PER MANUFACTURER RECOMMENDATIONS.

LEGEND:

- PROPOSED NEW CONCRETE PAVEMENT
- PROPOSED NEW #57 GRAVEL PAVEMENT
- 25.10 PROPOSED SPOT GRADE
- FLOW ARROW



CORTEZ BOULEVARD



PUMP STATION SITE PLAN
CORTEZ BOULEVARD PUMP STATION REPLACEMENT PROJECT



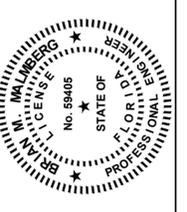
Coastal
 Engineering
 Surveying
 Environmental
 Transportation
 Construction Management
 engineering associates, inc.
 966 Candlelight Boulevard - Brooksville - Florida 34601
 (352) 796-9423 - Fax (352) 799-8359
 EE-000142

REUSE OF DOCUMENT
 THIS DOCUMENT COMPRISED OF THE INSURANCE POLICY OF THE PROFESSIONAL SERVICE OF THE ASSOCIATES, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF COASTAL ENGINEERING ASSOCIATES, INC.
 DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL

DATE	REV. BY/REV. NO.	REVISION
10/6/23	WFA 1	60% PLAN SUBMITTAL
07/12/2024	RAH 2	100% PLAN SUBMITTAL
03/25/2025	RAH 4	BID SET
04/17/2025	RAH 5	BID SET

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"
 SHEET
C-04
 JOB No.: 20073

PRINTED: 04/17/2025 - 12:14pm PRINTED BY: RH PATH: L:\20073\COB_PS_Rep\dwg\ENG\Current\20073-SP.dwg

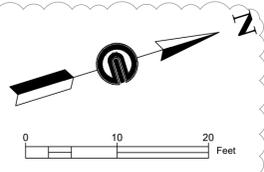


Coastal
engineering associates, inc.
966 Candlelight Boulevard - Brooksville - Florida 34601
(352) 796-9423 - Fax (352) 799-8359
EB-0000142

REUSE OF DOCUMENT
THIS DOCUMENT, COMPRISED OF THE INCORPORATED IDEAS AND DESIGNS, IS A S. F. L. PROFESSIONAL ENGINEER'S PROPERTY AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN AUTHORIZATION OF COASTAL ENGINEERING ASSOCIATES, INC.
DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL

DATE	REV. BY/REV. NO.	DESCRIPTION
10/6/23	WTA 1	60% PLAN SUBMITTAL
07/12/2024	RAH 2	100% PLAN SUBMITTAL
03/25/2025	RAH 4	BID SET
04/17/2025	RAH 5	BID SET

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

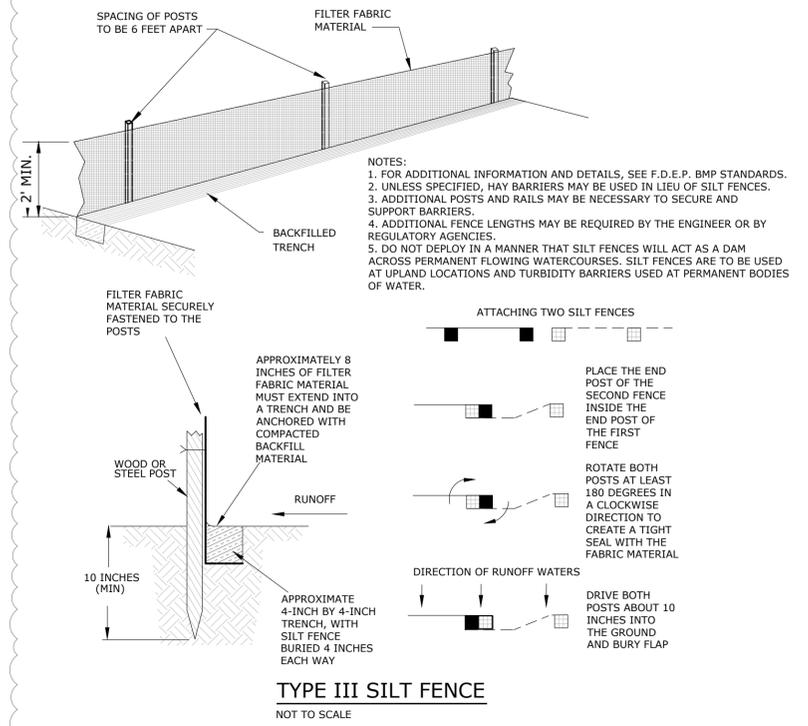


RECOMMENDED BY-PASS SEQUENCING PLAN

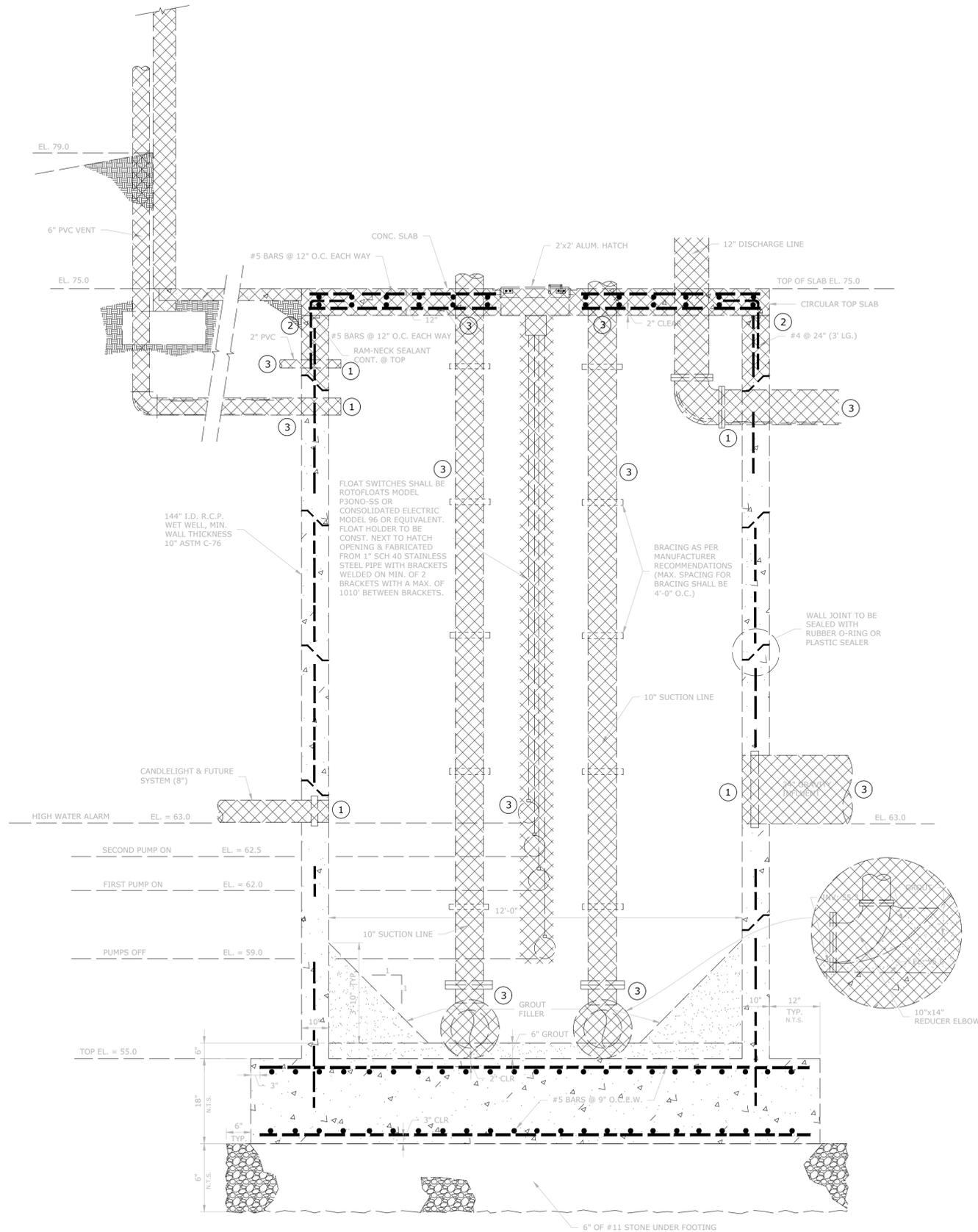
- MH-1 Rehabilitation**
- 1. Install Doghouse Manhole (MH-3)**
 - Contractor to install a doghouse manhole at the designated location.
 - 2. Prepare Access to Offsite Manhole**
 - Prepare the work area leading to the offsite manhole for upcoming by-pass pumping. Contractor to mulch and clear path to provide access. No. 57 stone base to be utilized if additional stability for vehicular tracking is required.
 - 3. Install MH-2 and Plug Inverts**
 - Contractor to install MH-2.
 - Plug all MH-2 inverts to prevent flow until connections are ready.
 - 4. Initiate Temporary Bypass and Plug South Invert of Offsite Manhole**
 - Plug the south invert of the offsite manhole.
 - Set up bypass pumping from the offsite manhole to MH-2. Estimated maximum peak flow = 283,248 gpd.
 - 5. Bypass Pump from MH-2 to City Force Main**
 - Pump flow from MH-2 into the City's existing 12-inch force main.
 - 6. Perform MH-1 Rehabilitation and Gravity Connection**
 - Contractor to rehabilitate MH-1.
 - Install gravity connection between MH-1 and MH-2.
- Wetwell Rehabilitation**
- 1. Initial Bypass Setup at MH-3**
 - Plug the north and northeast inverts of MH-3.
 - Bypass pump the flow from MH-3 into the City's existing 12-inch force main. Estimated maximum peak flow = 1,646,262 gpd. The City of Brooksville is able to re-direct flows a portion of the flow temporarily from the lift station site.
 - 2. Enable Flow from MH-1 to MH-2**
 - Once MH-1 rehabilitation is complete, remove the plug at the south invert of the offsite manhole.
 - Allow wastewater flow from MH-1 to MH-2 via gravity.
 - 3. Redirect Flow from MH-2 to MH-1**
 - Temporarily bypass flow from MH-2 back to MH-1 to isolate wetwell area.
 - 4. Perform Wetwell Rehabilitation**
 - Carry out all wetwell rehabilitation activities as specified.
 - 5. Restore System to Normal Operation**
 - Remove all bypass pumping setups.
 - Resume normal flow into the wetwell.

BY-PASS PUMPING NOTES

- CONTRACTOR SHALL SUPPLY ALL EQUIPMENT NECESSARY TO BY-PASS EXISTING LIFT STATION WHILE CONSTRUCTING NEW LIFT STATION IMPROVEMENTS.
- BY-PASS PUMPING: WHEN CONNECTING INTO AN EXISTING FORCE MAIN, SEWER MANHOLE, PUMP STATION, OR COATING AN EXISTING STRUCTURE REQUIRES THE REROUTING OF WASTEWATER FLOWS, BYPASS PUMPING MAY BE REQUIRED. IF BYPASS PUMPING IS REQUIRED, THE FOLLOWING MUST BE MET:
 - A DETAILED BYPASS PUMPING PLAN SHALL BE SUBMITTED TO COB FOR APPROVAL. COB MUST APPROVE THE PLAN BEFORE ANY WORK CAN BEGIN. THE BYPASS TYPE OPERATION MUST BE SUBMITTED IN A SHOP DRAWING FORMAT FOR APPROVAL UNLESS ALREADY INDICATED ON THE CONSTRUCTION DRAWINGS.
 - BYPASS PUMPS DESIGN CURVE MUST BE REVIEWED AND APPROVED BY THE EOR FOR TDH AND GPM CAPABILITIES AT A CERTAIN RPM TO ENSURE THE PUMPS WILL OPERATE PROPERLY WITH THE EXISTING SYSTEM CONDITIONS. A START-UP PROCEDURE WILL BE CONDUCTED IN THE FIELD TO CONFIRM THE PUMPS' ABILITY TO MEET AND MAINTAIN THE PUMPING PARAMETERS THAT WERE SUBMITTED FOR APPROVAL. PUMP CONTROLS SHALL ALSO BE TESTED.
 - BYPASS PUMPS SHALL HAVE THE ABILITY TO NOTIFY THE CONTRACTOR AND/OR THE PUMP VENDOR FOR ANY ALARMS AT ALL TIMES WHILE THE PUMPS ARE IN OPERATION. THE CONTRACTOR AND/OR PUMP VENDOR MUST ACKNOWLEDGE THE ALARM AND REPORT IMMEDIATELY TO THE PROJECT SITE TO CORRECT ALARM ISSUE. RESPONSE TO THE PROJECT SITE FOR ALL ALARM CALL-OUTS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST HAVE A RESPONSE TIME OF NO MORE THAN 30-MINUTES.
 - COB AFTER HOURS EMERGENCY CONTACT NUMBER MUST BE ON THE PUMPS ALARM CALL-OUT LIST AS THE LAST ENTITY AVAILABLE CONTACT. THERE SHALL BE A MINIMUM OF TWO (2) EMERGENCY CONTACT NUMBERS THAT PROCEED COB ON THE CALL-OUT LIST.
 - ALL BYPASS PUMPS SHALL HAVE SOUND ATTENUATING ENCLOSURES. SOUND LEVEL MUST NOT EXCEED 75 dBA AT 23 FEET AWAY AT GROUND LEVEL. PUMP SHOP DRAWINGS THAT ARE SUBMITTED FOR APPROVAL MUST INCLUDE THE DECIBEL LEVEL OF THE ENCLOSURE.
 - ALL PUMPS, PIPING, FITTINGS, TEMPORARY SAFETY FENCING, AND ANY OTHER INCIDENTAL EQUIPMENT AND/OR MATERIALS, MONITORING, OR FUELING REQUIRED TO ENSURE THE BYPASS PUMPING IS FUNCTIONING PROPERLY AND SAFELY AT ALL TIMES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - ANY WORK THAT MAY NEED TO BE PERFORMED BY COB OR ANY OTHER CITY DEPARTMENT DUE TO THE LACK OF RESPONSE BY THE CONTRACTOR WILL BE BILLED TO THE CONTRACTOR. ALL INVOICE ADJUSTMENTS, CREDITS, OR PAYMENTS FOR THIS WORK MUST BE MADE BEFORE THE FINAL PROJECT PAYMENT WILL BE APPROVED.



4/17/2025 12:13 PM L:\20073\COB_PS_Repl\dwg\ENG\Current\20073-SP.dwg



GENERAL DEMOLITION NOTES

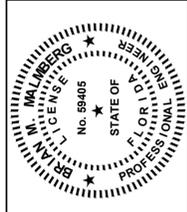
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DEMOLISHED PIPING, EQUIPMENT AND MATERIALS. THE OWNER RESERVES THE RIGHT TO RETAIN PIPING, EQUIPMENT AND/OR MATERIALS ON SITE FOR THEIR USE. SUCH MATERIAL TO BE RETAINED SHALL BE PLACED IN AN ON-SITE STORAGE AREA, REVIEWED/COORDINATED 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 INDICATED ARE FROM THE BEST AVAILABLE INFORMATION AND MAY NOT BE COMPLETE OR ACCURATE. ALL 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

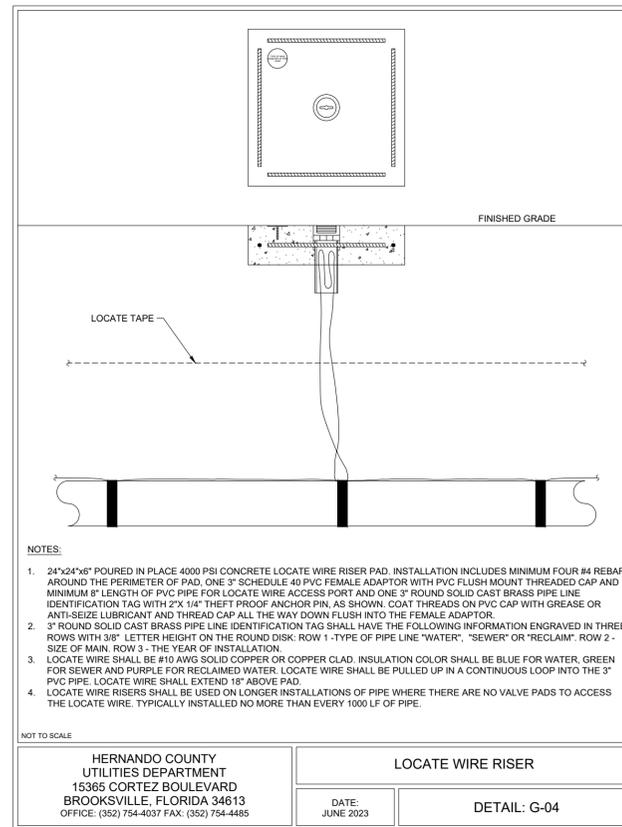
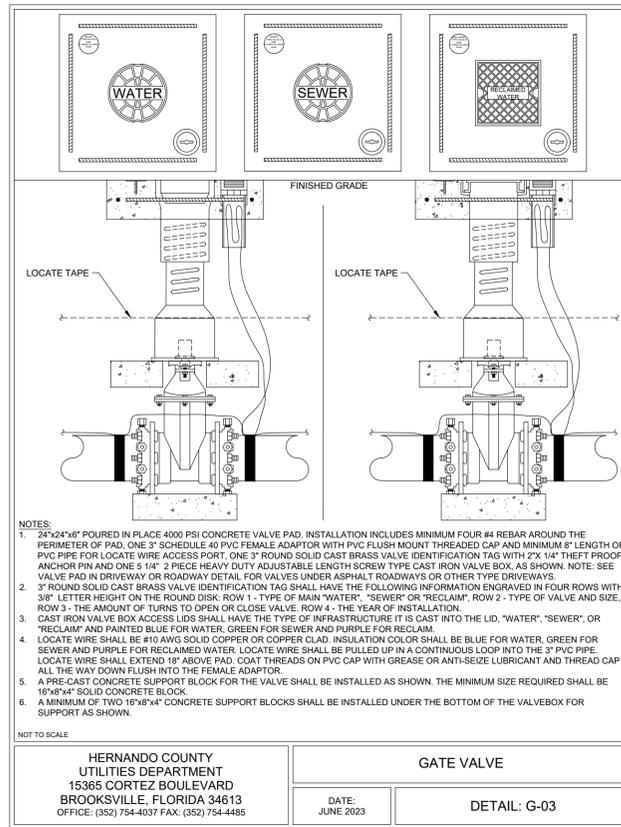
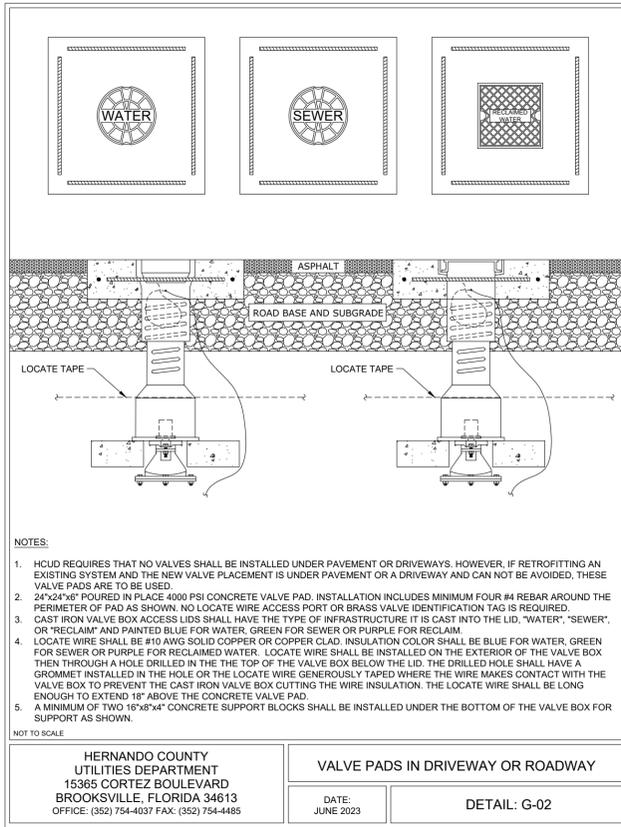
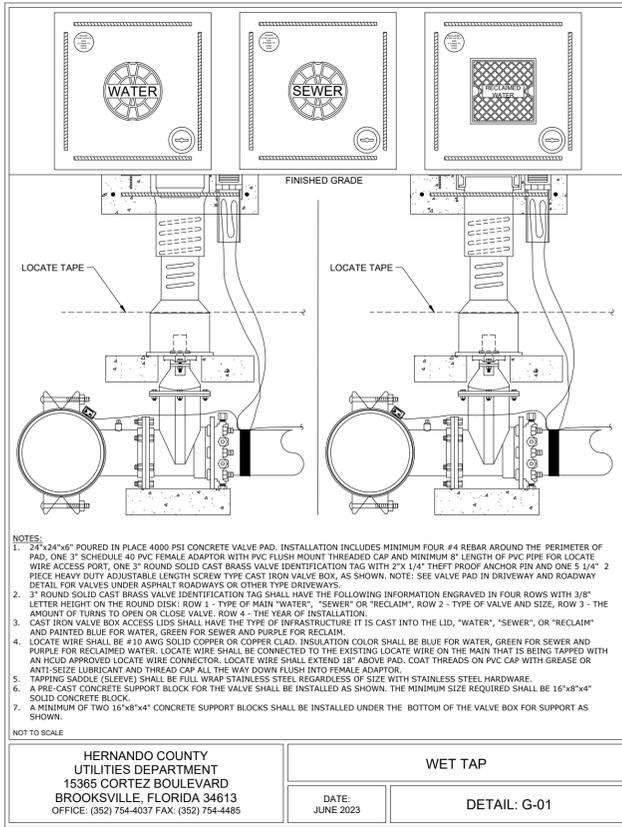


Coastal
 engineering associates, inc.
 966 Candlelight Boulevard - Brooksville - Florida 34601
 (352) 796-9423 - Fax (352) 799-8359
 EB-0000142

REUSE OF DOCUMENT
 THIS DOCUMENT COMPRISED OF THE INCORPORATED IDEAS AND DESIGNS, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF COASTAL ENGINEERING ASSOCIATES, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN AUTHORIZATION OF COASTAL ENGINEERING ASSOCIATES, INC.
 DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL

DATE	REV. BY	REV. NO.	REVISION
10/6/23	WTA	1	60% PLAN SUBMITTAL
07/12/2024	RAH	2	100% PLAN SUBMITTAL
03/25/2025	RAH	4	BID SET
04/17/2025	RAH	5	BID SET

SHEET
C-06
 JOB No.: 20073



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)	6(7)	7(8)	8(9)	8(9)	9(11)
22 1/2" BEND	5(5)	6(7)	8(9)	9(11)	11(12)	12(14)	13(16)	15(17)	16(18)	18(21)
45" BEND	9(10)	12(14)	16(18)	19(22)	22(25)	25(28)	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

RISER MIN (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)

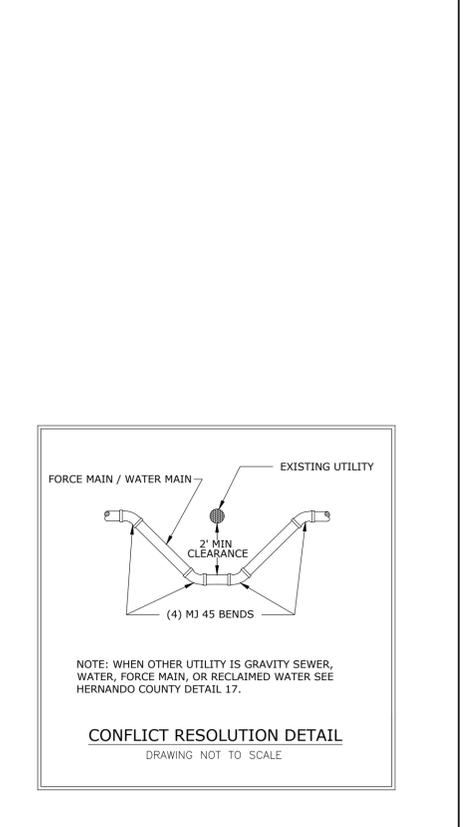
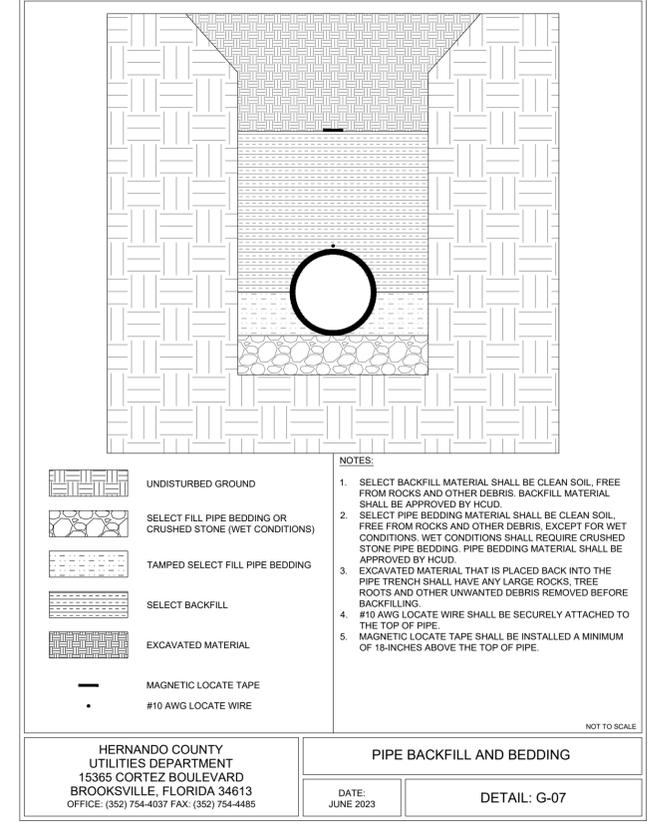
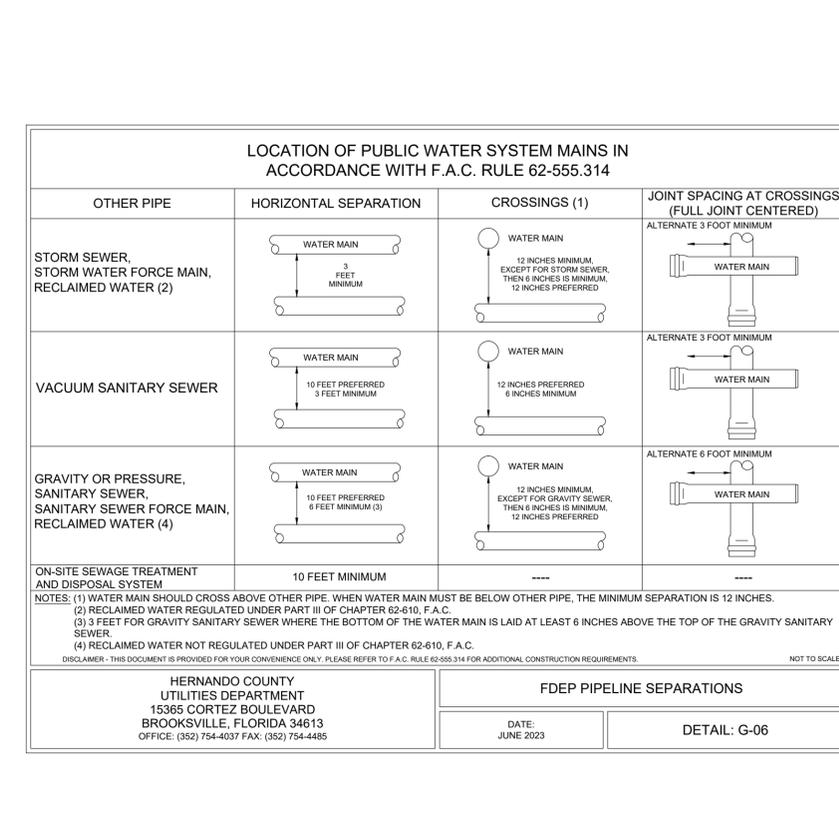
DUCTILE IRON PIPE TEE RESTRAINED JOINTS

NOTES:
1. THE PROGRAM "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" ON 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 LINEAR 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

Coastal
engineering associates, inc.
966 Candlelight Boulevard - Brooksville - Florida 34601
(352) 796-9423 - Fax (352) 799-8359
EB-0000142

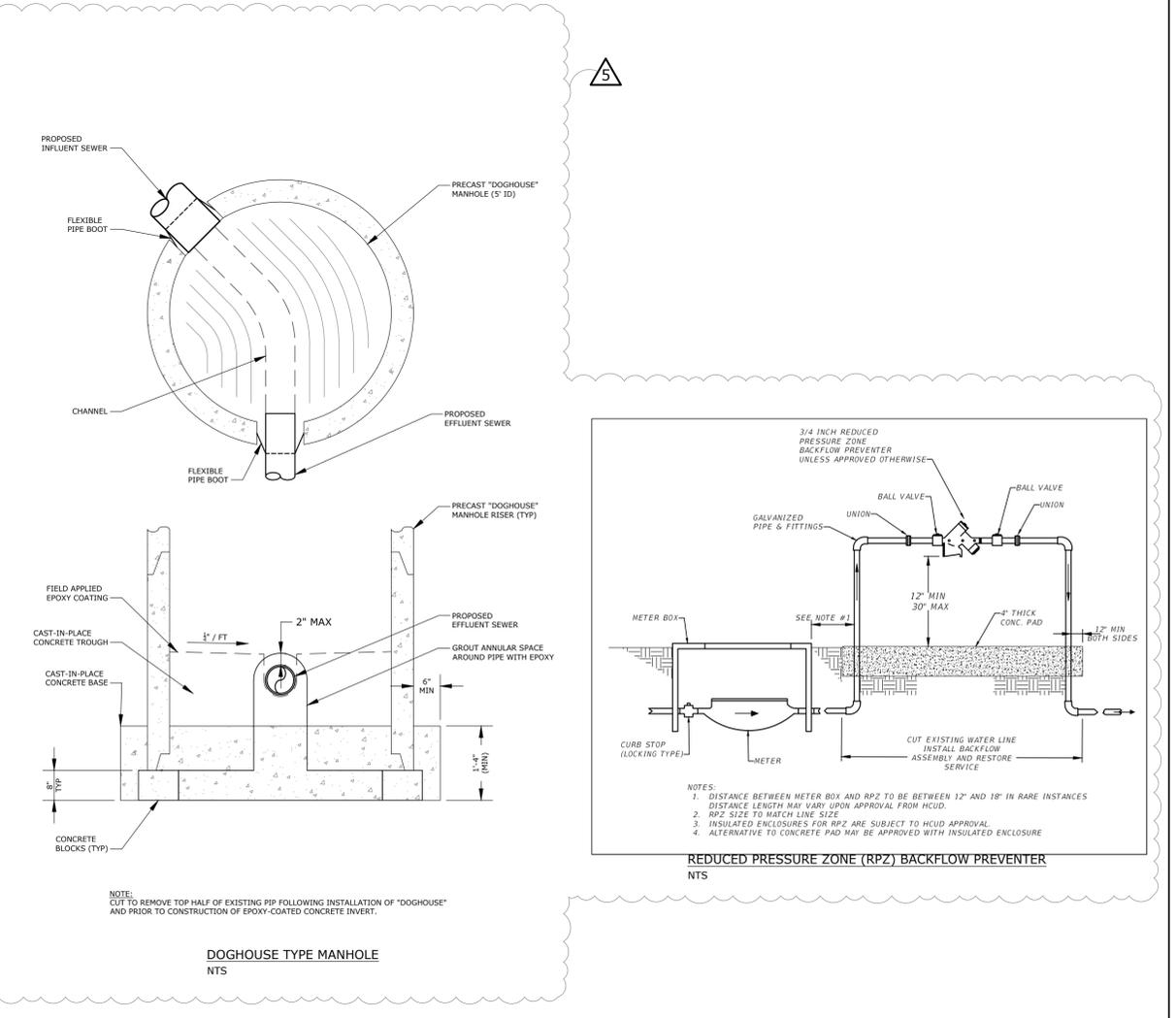
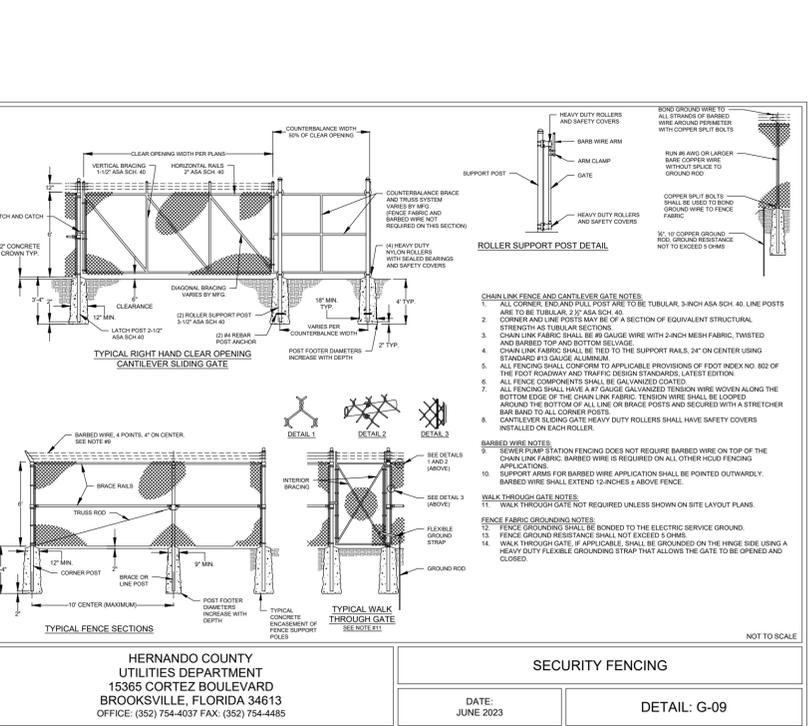
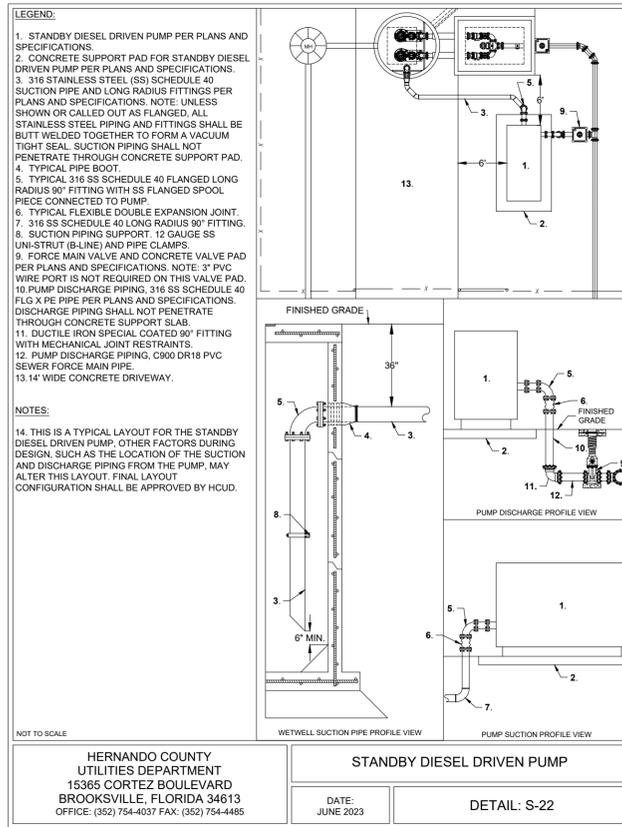
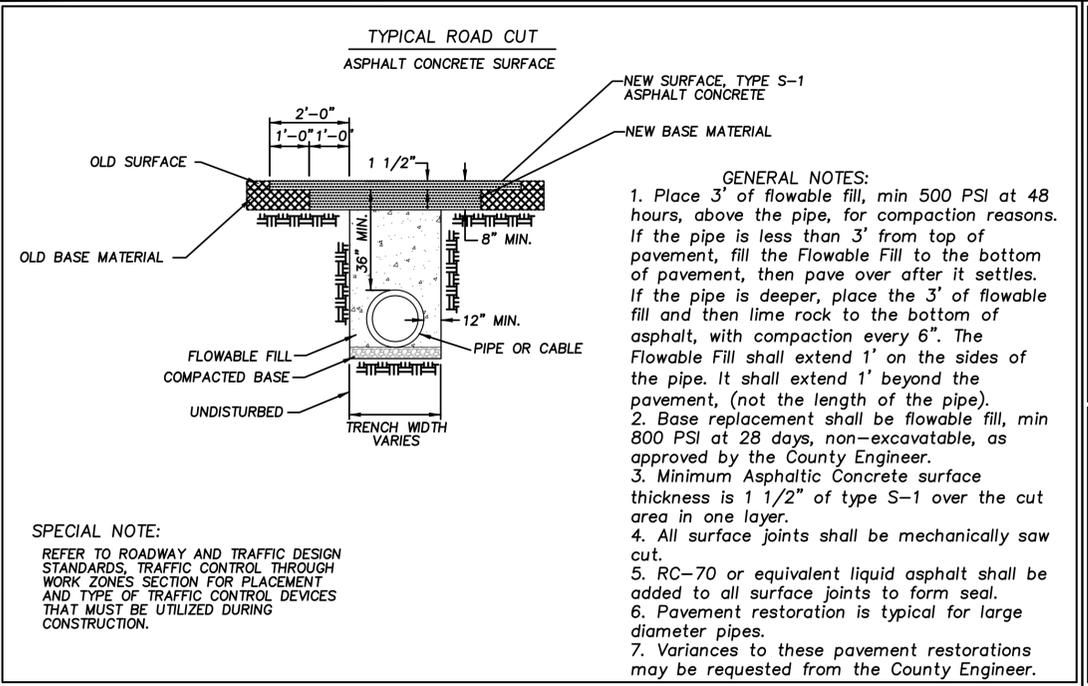
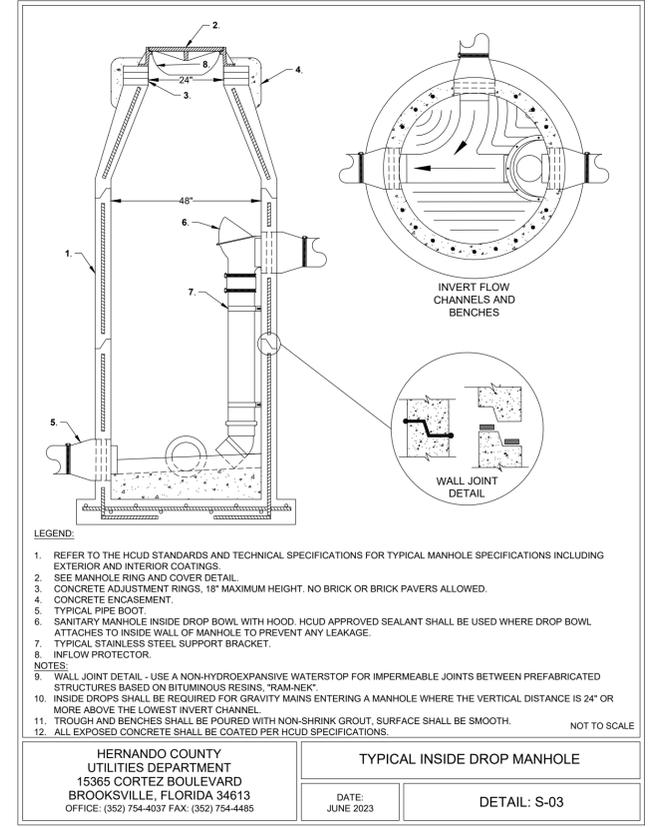
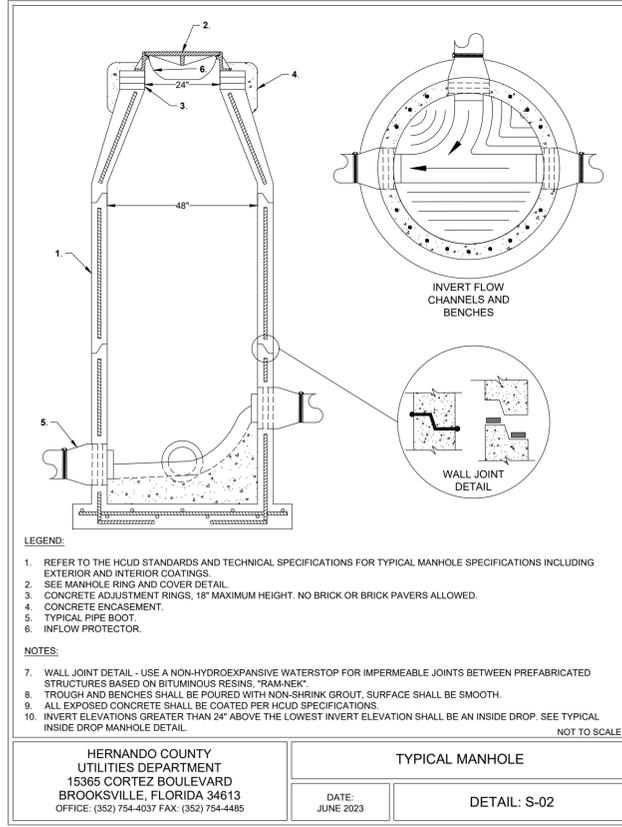
REUSE OF DOCUMENT
THIS DOCUMENT COMPRISED OF THE INCORPORATED IDEAS AND DESIGNS, A.S. AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF COASTAL ENGINEERING ASSOCIATES, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN AUTHORIZATION OF COASTAL ENGINEERING ASSOCIATES, INC. DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL ENGINEER

DATE	REV. BY	REV. NO.	REVISION
10/9/23	WTA	1	60% PLAN SUBMITTAL
07/12/2024	RAH	2	100% PLAN SUBMITTAL
03/25/2024	RAH	4	BID SET
04/17/2024	RAH	5	BID SET

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

SHEET C-08

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

HERNANDO COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION
15365 CORTEZ BOULEVARD
BROOKSVILLE, FLORIDA 34613
OFFICE: (352) 754-4037 FAX: (352) 754-4485

TITLE: ROADWAY STANDARD PAVEMENT RESTORATION
APPROVED BY: C. G. MIXSON, P.E.
DATE: 10-01-08
NO.: IV-16

Coastal
engineering associates, inc.
966 Candlelight Boulevard - Brooksville - Florida 34601
(352) 796-9423 - Fax (352) 799-8359
EB-0000142

REUSE OF DOCUMENT
THIS DOCUMENT, COMPRISED OF THE INCORPORATED IDEAS AND DESIGNS, IS AN INSTRUMENT OF SERVICE AND IS THE PROPERTY OF COASTAL ENGINEERING ASSOCIATES, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN AUTHORIZATION OF COASTAL ENGINEERING ASSOCIATES, INC. DRAWING, INVAID, UNLESS SIGNED, DATED AND SEALED BY REGISTERED PROFESSIONAL ENGINEER.

DATE	REV. BY	REV. NO.	REVISION
10/6/23	WTA	1	60% PLAN SUBMITTAL
07/12/2024	RAH	2	100% PLAN SUBMITTAL
03/25/2024	RAH	4	BID SET
04/17/2024	RAH	5	BID SET

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

SHEET
C-09
JOB No.: 20073

4/17/2025 12:12 PM L:\20073\COB_PS_Repl\dwg\ENG\Current\20073-DT.dwg