



ADDENDUM NO. 1

Issue Date: May 16, 2024

Project Name: IRC-2201: Waters Edge Culvert Replacement

Bid Number: 2024046

Bid Opening Date: **May 24, 2024, at 2:00 p.m.**

This addendum is being released to provide the pre-bid meeting minutes and sign-in sheet, answer bidder questions received to date, and modify the bid documents.

The information and documents contained in this addendum are hereby incorporated in the invitation to bid. **This addendum must be acknowledged where indicated on the bid form, or the bid may be declared non-responsive.**

Modifications to Bid Documents:

Replace Itemized Bid Schedules (section 00310-3 thru 00310-4), with the attached **Itemized Bid Schedules – Addendum 1.**

Replace Plan Sheet 4, Summary of Pay Items with **Plan Sheet 4, Summary of Pay Items – Addendum 1 (or updated 5/16/24, etc.)**

Replace Plan Sheet 5, Summary of Pay Items with **Plan Sheet 5, Summary of Pay Items – Addendum 1 (or updated 5/16/24, etc.)**

Replace Plan Sheet 21, Revetment Details with **Plan Sheet 21, Revetment Details – Addendum 1 (or updated 5/16/24, etc.)**

Replace Plan Sheet 28, Dewatering & Erosion Control with **Plan Sheet 28 Dewatering & Erosion Control – Addendum 1 (or updated 5/16/24, etc.)**

Replace Plan Sheet 29, Dewatering & Erosion Control with **Plan Sheet 29 Dewatering & Erosion Control – Addendum 1 (or updated 5/16/24, etc.)**

Bidder Questions and Answers

1. Please state pump sizes based on GPM of the Couch Ditch. **25,000 GPM**
2. Please state pump sizes based on GPM of the sublateral canal. **4,000 GPM**

3. Is steel sheeting required on all the canals, in each direction? **Steel sheeting is required on a minimum of 3 sides for the box culvert installation and only on the ends for the 60-inch culvert installations.**
4. When it's said, "structure in the canal", is it just a temporary structure there to dissipate the water to avoid erosion? Need to be removed prior to the completion of the project? **A drainage structure such as a ditch bottom inlet or similar structure can be used to dissipate the discharge flow and will be removed after dewatering is complete.**
5. Is the temporary bypass pipe required for the couch ditch or will a pump suffice? **The Cooch Ditch culvert provides flood protection for a large residential area. A temporary bypass pipe is preferred as this does not rely on personnel to operate and maintain. The contractor may utilize a pump(s) but shall assume liability for flood damage upstream due to pump failure.**
6. Can 1st St. close for all phases? It would make sense as far as MOT device rental costs, spoil pile displacement, constructability, and safety? **Sections of 1st St. SW can be closed depending on the location of the culvert being replaced. However, access to the neighborhood south of 1st St SW (Waters Edge) must be always maintained. A traffic control and detour plan shall be submitted to the County for approval.**
7. Can the box culverts and the western culverts be done at the same time, finish up with both of those and then do the remaining drive culvert? **It is anticipated the 60-inch RCP culverts under 36th Court SW and 37th Drive SW will be installed first due to their poor condition and the long lead time to obtain the precast box culverts. Specific construction phasing will be determined prior to construction.**
8. Is there a problem with working on both phases at the same time? **See answer to Question 7.**
9. Would a pair of 42" pipe be accepted in lieu of the 72" pipe? **A 60-inch and 42-inch pipe can be installed side by side and is equivalent to a 72-inch pipe. See plan Sheet 29 of 30 Addendum 1.**
10. Will broken/crushed concrete suffice for the rip rap? **Concrete rubble is acceptable but must meet the gradation and thickness specified in the FDOT Standard Specifications for Road and Bridge Construction Section 530-2.1.3.2 and shall contain no reinforcing steel.**
11. Is the #57 chink rock to be included in the rip rap line item? **The cost of the #57 Stone shall be included in the cost of the Riprap/Rubble pay item. The total quantity of #57 Stone shall not exceed 10 percent of the total weight of the riprap per FDOT Standard Specifications for Road and Bridge Construction Section 530-2.1.3.2.**
12. How many test wells will need to be punched for groundwater samples? **One test well is required within a 1000' radius of the dewatering location.**
13. Please provide a different legend for the milling and the total reconstruction. The way this looks the entire area is to be milled. We can assume that there is a total reconstruction on the

driveways and over the box culvert, but a new legend depicting this would be helpful. **The trench for the culverts under pavement will be restored with 16-inches and Cemented Coquina and 2-1/2" of SP-12.5 asphalt. The roadway including the area over the trenches will be milled 1-inch as shown on plan Sheets 8 of 30 and 9 of 30 and resurfaced with 1" of SP-9.5 asphalt. The trench and asphalt restoration areas are based on the Stormwater/Utility Pipe Installation (Paved Areas) Detail on plan Sheet 18 of 30.**

14. How wide of an area was calculated as a total reconstruct over the box culvert? **The area over the box culvert for total reconstruction of the roadway is approximately 165 SY. This assumes a bypass culvert(s) will be installed on the west side of the sheet wall.**
15. The HOA, Phase 1 of this project does not list a bid item for the valley gutter that's called out in the plans. Is this item covered under the Phase II IRC bid item 520-3 or will this item be added per a subsequent addendum? **The concrete valley gutter pay item for the HOA entrance roads is included in the Indian River County Summary of Pay Items plan Sheet 3 of 30.**
16. The HOA, Phase 1 of this project lists bid items, 160-4, 285-716 and 334-1-538. Are these items and associated quantities strictly for trench restoration requirements and the milling and overlay requirements covered under the same items and quantities listed in the associated IRC/Phase II bid items? **Pay items 285-716 and 334-1-538 in the Summary of Pay Items are for the roadway trench restoration for each Phase. Phase 1 (Waters Edge HOA) pay Item 160-4 is for stabilization of the IRFWCD access driveway (See plan Sheet 18 of 30).**
17. Item 400-4-1, IRC Phase II, precast concrete box culvert including end walls. Can the designated end walls be either cast in place or precast? **The pre-cast box culvert end barrels will have connection bars integrally cast for connection to the cast-in-place headwall, end walls, and toe slab as shown in the FDOT Standard Plans for Bridge Construction Index 400-291, Sheet 1 of 5. Shop drawings will need to be submitted and approved prior to fabrication of the box culverts.**

Attachments:

Meeting Minutes of Pre-Bid Meeting held on May 8, 2024, including Sign-In Sheet
Revised Itemized Bid Schedules
Revised Plan Sheet-4, Summary of Pay Items
Revised Plan Sheet-5, Summary of Pay Items
Revised Plan Sheet-21, Revetment Details
Revised Plan Sheet-28, Dewatering & Erosion Control
Revised Plan Sheet-29, Dewatering & Erosion Control



Board of County Commissioners

1801 27th Street
Vero Beach, Florida 32960-3365
Telephone: (772) 567-8000

PRE-BID MEETING MINUTES
MAY 8, 2024, 11:00 AM
INDIAN RIVER COUNTY ADMINISTRATION BUILDING
Building A – Room A1-303
WATERS EDGE CULVERT REPLACEMENT
PROJECT NO. IRC-2201

The following meeting notes set forth our understanding of the discussions and decisions made at the subject meeting. If no objections, questions, additions, or comments are received within five (5) working days from issuance of the meeting notes, we will assume that our understandings are correct. The project will move forward according to the bid plans and specifications and the understandings herein.

Project Name: Waters Edge Culvert Replacement
Project Number: IRC-2201
Bid Number: 2024046

INTRODUCTIONS / SIGN IN SHEET:

This meeting was recorded as part of the project records.

This was a Pre-bid meeting. Attendance at this meeting was **MANDATORY**.

PROJECT DESCRIPTION:

This project is located in Vero Beach, FL on 1st Street SW between 35th Avenue and 37th Drive SW. The project will be constructed in two phases. Phase I will include replacement of the existing 60-inch corrugated metal pipe (CMP) with reinforced concrete pipe (RCP) under the Waters Edge Neighborhood entrances at 36th Court SW and 37th Drive SW. Phase II will include replacement of a 96-inch CMP and 24-inch CMP under 1st Street SW with a pre-cast concrete box culvert and 24-inch RCP respectively. Ancillary work includes site work, canal excavation, embankment stabilization, sod, roadway milling and resurfacing, striping, curb, and guardrail replacement.

CONTRACT DETAILS

Bid opening: Friday, May 24, 2024, at 2:00 PM
Contract time: 270-days to Substantial Completion
300-days to Final Completion
Notice to Proceed: Estimated, July 2024
Estimate: Phase 1- \$580,000.00 (includes a \$80,000.00 force account)
Phase 2 - \$762,406.00 (includes a \$100,000.00 force account)
Liquidated Damages: \$1,694.00 per day

CONTACTS BIDDING PROCESS

All communications concerning this bid shall be directed to Indian River County Purchasing Division at purchasing@indianriver.gov

ENGINEER OF RECORD:

Mark Winslow, P.E., Indian River County Public Works

UTILITIES

Indian River County Utilities (Water & Sewer) – Maintenance of utilities during construction.
AT&T fiber

PERMITS

Indian River Farms Water Control District (IRFWCD) permit is provided in Appendix 'A.'
Discussion of IRFWCD bypass, drainage flow maintenance, and dewatering requirements.

PROJECT REQUIREMENTS:

- Bidder must be registered with and use, at their sole expense, the Department of Homeland Security's E-Verify system (www.e-verify.gov) to confirm the employment eligibility of all newly hired employees, as required by Section 448.095, F.S.. The Owner, Contractor, and Subcontractors may not enter into a contract unless each party to the contract registers with and uses the E-Verify system. Contractor is responsible for obtaining proof of E-Verify registration for all Subcontractors. This requirement applies to any provider of services or goods.
- Any change orders, revisions, time extensions and weather days need to be submitted and approved by Indian River County. Weather/holiday letters will be issued monthly.
- A summary of required Contractors bid forms can be found on the submittal's checklist (Section 00200, Instructions to Bidders, Article 15 – Submittal of Bid).
- Contractor Qualifications: Bidders shall be a qualified General Contractor registered in the State of Florida. Bidders shall have a minimum of three years of experience in the construction of asphalt roadways and drainage systems. Bidders shall provide a list of five (5) successfully completed projects of similar scope within the State of Florida along with a valid contact name and phone number for the Owners of those projects, and the completion date for each project.
- Provide list of Sub-contractors per Bid Documents, Section 00458 – List of Subcontractors.

OTHER ISSUES

- Governing Standards and Specifications for this project are: The FDOT Standard Specifications for Road and Bridge Construction dated July 2021, the FDOT FY 2020-2021 Standard Plans, and Indian River County Standard Specifications.
- All testing will be performed per FDOT specifications, or as specified in the Contract Documents.
- Review of Contract Documents – Plans, Pay Item Notes, Specs, MOT
- There will be an Addendum issued that will include the Meeting Minutes. Contractor must acknowledge addendum in bid package (Bid Form Section 00310)
- Bidders shall review the plans and documents and provide comments or questions to the Indian River County Purchasing Department (purchasing@indianriver.gov) as soon as possible. No further comments or questions will be addressed after **May 14, 2024.**

DISCUSSION

- ***David Gunter (IRFWCD) stated the bypass in the sub-lateral canal is not as critical as it is the Cooch Ditch. The pipe and box culvert will need to be installed in a dry ditch and will require***

dewatering. David stated the pump for the sub-lateral bypass can be a 6-inch centrifugal pump with vacuum assisted priming and float switch level control. The Cooch Ditch is shallow, and his suggestion is to have the Contractor construct a temporary by-pass canal with a 72" diameter pipe. Sheet piles will be required in all canals and a structure will need to be in place to discharge water into and prevent erosion. The flow requirements will be provided in the addendum.

- *Zach Rose (Tim Rose Contracting) asked if 1st SW is to be closed for all phases. Mark Winslow (Indian River County) stated sections of 1st St. SW can be closed as needed to construct the project but must allow access for residents and emergency vehicles. Regarding how road closures will take place will be discussed at the preconstruction meeting.*
- *Mark Winslow (Indian River County) stated the County is agreeable to David's suggestion of a by-pass canal and the County will provide a drawing detailing the by-pass canal and pipe. Zach Rose asked if two smaller pipes in lieu of one 72" pipe can be used. The County will allow smaller pipes set side by side but will need to be sized to be the equivalent diameter of a 72" pipe.*
- *The end pieces of the concrete pipe will need to be strapped with stainless steel links and bolted as shown in the detail on the plans.*
- *Zach Rose asked if broken concrete will be allowed for use as riprap if it meets FDOT specifications. Mark Winslow stated broken concrete is acceptable but must not contain reinforcing steel. David Gunter stated smaller rock (#57 stone) can be used to fill voids (chink) between the larger pieces. Cost for #57 stone shall be included in the cost of the riprap and will be reiterated in the Addendum.*
- *There are utility relocations with this project and none of the pipe material is asbestos.*
- *Attention was given to there being two separate sheets with summary of pay items. The Waters Edge Homeowner's Association will incur the expenses of certain work and the County will incur the rest. In addition, the bidder should be aware of the pay item footnotes for each sheet to see what is included for work and payment.*
- *Well points will be required for dewatering and groundwater testing will be required. If there is contamination, removal of the contaminants is required. David Gunter stated a single groundwater test point covers a 1000' radius.*
- *The phasing that the County expects to take place is replacement of the 60" CMP culverts in the sub-lateral canal first due to their poor condition (Phase 1) followed by replacement of the box culvert (Phase 2).*
- *Meeting adjourned.*

ATTCHMENT:

Sign in sheet.

**PRE-BID MEETING
SIGN-IN SHEET
WATERS EDGE CULVERT REPLACEMENT
IRC PROJECT NUMBER: IRC-2201
Bid Number 2024046
MAY 8, 2024 – 11:00 AM**

NAME	COMPANY & ADDRESS	PHONE #	EMAIL ADDRESS
KEVIN HANSEN	IRC ENGINEERING	772-226-1465	KHANSEN@INDIANRIVER.GOV
April Goddard	Timothy Rose Contracting	772-564-7800	april@timothyrosecontracting.com
Zach Rose	TRC	772-473-7953	Zach@timothyrosecontracting.com
Melissa Trejo	Johnson-Davis Inc.	(561)588-1170	mtrejo@johnsondavis.com
Andrew D'Angelo	West Construction	561-588-2027	ADAngelo@westconstructionwc.net
Steve Allen	CK Contractors	561-930-2023	SAllen@ckcdllc.com
Cecilia Heim	Ferreira Construction	(72) 286-5123	Cheim@ferreiraconstruction.com
WARD Gunter	IRFWCD	772 562 2141	ward@IRFWCD.COM
DAVID E GUNTER	IRFWCD	772-562-2141	david@IRFWCD.COM
MARIA Bowdren	IRC Eng	772-226-4349	mbowdren@indianriver.gov
Adam Heltemes	IRC Eng	772-226-1283	aheltemes@indianriver.gov
MARK WINSLOW	IRC ENG	772-226-1431	MWINSLOW@INDIANRIVER.GOV

ITEMIZED BID SCHEDULE

PROJECT NAME: WATERS EDGE CULVERT REPLACEMENT

*** ADDENDUM 1 5/14/24**

PROJECT NO. IRC-2201 BID NO. 2024046

BIDDER'S Name:

Item No.	Description	Unit	Quantity	Unit Price	Amount
INDIAN RIVER COUNTY					
101-1	MOBILIZATION/DEMOBILIZATION	LS	1		
102-1	MAINTENANCE OF TRAFFIC	LS	1		
104-2	PREVENTION, CONTROL, & ABATEMENT OF EROSION & WATER POLLUTION	LS	1		
110-1-1	CLEARING AND GRUBBING	LS	1		
120-1	REGULAR EXCAVATION	CY	200		
120-6	EMBANKMENT	CY	100		
* 285-716	OPTIONAL BASE GROUP 16 - CEMENTED COQUINA (LBR -100)(16")	SY	220		
286-1	ASPHALT APRON/DRIVEWAY CONSTRUCTION	SY	100		
327-70-1	ASPHALT PAVEMENT MILLING (1")	SY	2370		
334-1-53A	SUPERPAVE ASPHALT CONCRETE (SP-9.5)(TRAFFIC C)(PG76-22)(1")	TON	140		
* 334-1-53B	SUPERPAVE ASPHALT CONCRETE (SP-12.5)(TRAFFIC C)(PG76-22)(2-1/2")	TON	32		
400-4-1	PRECAST CONCRETE BOX CULVERT (9'X6') INCLUDING ENDWALLS	LF	72		
425-1-521	DITCH BOTTOM INLET (TYPE C) (<10')	EA	1		
430-175-112	CONCRETE PIPE CULVERT ROUND (12" S/CD)(CL III)	LF	8		
430-175-124A	CONCRETE PIPE CULVERT ROUND (24" S/CD)(CL III)	LF	40		
430-175-124B	PIPE CULVERT (POLYPROPYLENE) ROUND (24" S/CD)	LF	20		
430-982-129	MITERED END SECTION (CONCRETE) (24" CD) (4:1)	EA	1		
520-3	CONCRETE VALLEY GUTTER	LF	280		
530-3-4	RIPRAP, RUBBLE (F&I) (DITCH LINING)	TON	200		
536-1-1	GUARDRAIL - ROADWAY, GENERAL TL-3	LF	175		
536-7-3	SPECIAL GUARDRAIL POSTS - ENCASED POST FOR SHALLOW MOUNT	EA	5		
536-85-20	GUARDRAIL END TREATMENT - TRAILING ANCHORAGE - SINGLE FACE FLARED END	EA	3		
536-85-25	GUARDRAIL APPROACH TERMINAL (END ANCHORAGE ASSEMBLY) (ET-2000)	EA	1		
570-1-1	PERFORMANCE TURF (SOD) (BAHIA)	SY	500		
700-1-50	SIGN RELOCATE	AS	4		
706-3	RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS (AMBER/AMBER)	EA	38		
711-11-121	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	LF	720		
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	44		
711-11-141	THERMOPLASTIC, STANDARD, WHITE, SKIP (6'-10'), 6"	LF	226		
711-11-221	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	LF	350		
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF	70		
711-11-231	THERMOPLASTIC, STANDARD, YELLOW, SKIP (10'-30'), 6"	LF	450		
999-1A	AS-BUILT SURVEYING AND RECORD DRAWING PREPARATION (BY REGISTERED SURVEYOR)	LS	1		
IRC-1	TEMPORARY BY-PASS AND CANAL MAINTENANCE PUMPING	LS	1		
SUB-TOTAL INDIAN RIVER COUNTY =					
999-25				FORCE ACCOUNT =	\$100,000.00
TOTAL INDIAN RIVER COUNTY =					

ITEMIZED BID SCHEDULE

PROJECT NAME: WATERS EDGE CULVERT REPLACEMENT

ADDENDUM 1 5/16/24

PROJECT NO. IRC-2201 BID NO. 2024046

BIDDER'S Name:

Item No.	Description	Unit	Quantity	Unit Price	Amount
WATERS EDGE HOMEOWNERS ASSOCIATION					
101-1	MOBILIZATION/DEMOBILIZATION	LS	1		
102-1	MAINTENANCE OF TRAFFIC	LS	1		
104-2	PREVENTION, CONTROL, & ABATEMENT OF EROSION & WATER POLLUTION	LS	1		
110-1-1	CLEARING AND GRUBBING	LS	1		
120-1	REGULAR EXCAVATION	CY	400		
120-6	EMBANKMENT	CY	250		
160-4	TYPE "B" STABILIZATION (LBR-40)(12")	SY	200		
285-716	OPTIONAL BASE COURSE - CEMENTED COQUINA (LBR -100)(16")	SY	145		
334-1-53B	SUPERPAVE ASPHALT CONCRETE (SP-12.5)(TRAFFIC C)(PG76-22)(2-1/2")	TON	10		
425-1-521	DITCH BOTTOM INLET (TYPE C) (<10')	EA	1		
430-175-115	PIPE CULVERT (POLYPROPYLENE) ROUND (15" SD)	LF	15		
430-175-160	CONCRETE PIPE CULVERT ROUND (60" S/CD)(CL III)	LF	256		
530-3-4	RIPRAP, RUBBLE (F&I) (DITCH LINING)	TON	400		
570-1-1	PERFORMANCE TURF (SOD) (BAHIA)	SY	1000		
570-1-2	PERFORMANCE TURF (SOD) (ST. AUGUSTNE)	SY	500		
571-1-2	PLASTIC EROSION MAT, TRM TYPE II	SY	400		
1050-16-003	REMOVE & DISPOSE EXIST. 6" WATER MAIN	LF	100		
1050-31-106	(F&I) 6" MJ C-153 45 DEG. BEND (WATER) WITH MEGA-LUG RESTRAINTS	EA	6		
1050-31-206	UTLITIY PIPE (F&I) (C900 PVC) (WATER MAIN) (6")	LF	100		
1080-11-307	(F&I) LINE STOP ASSEMBLY (6")	EA	1		
1080-24-106	UTILITY FIXTURE (F&I) RESILIANIT SEAT GATE VALVE (6")	EA	1		
999-1A	AS-BUILT SURVEYING AND RECORD DRAWING PREPARATION (BY REGISTERED SURVEYOR)	LS	1		
IRC-1	TEMPORARY BY-PASS AND CANAL MAINTENANCE PUMPING	LS	1		
SUB-TOTAL WATERS EDGE HOMEOWNERS =					
999-25A	FORCE ACCOUNT =				\$80,000.00
TOTAL PROJECT BID AMOUNT (INCLUDING FORCE ACCOUNTS) FOR WATERS EDGE HOA=					
TOTAL PROJECT BID AMOUNT (INCLUDING FORCE ACCOUNT) FOR INDIAN RIVER COUNTY =					
TOTAL BID AMOUNT WATERS EDGE CULVERT REPLACEMENT FOR INDIAN RIVER COUNTY AND WATERS EDGE HOMEOWNERS ASSOCIATION					

LS=Lump Sum AC=Acre EA=Each CY=Cubic Yard SY=Square Yard TN=Ton LF=Linear Foot AS=Assembly

NOTE: IF THERE IS A DISCREPANCY BETWEEN THE PLANS (SUMMARY OF PAY ITEMS) AND THE ITEMIZED BID SCHEDULE, THE BID SCHEDULE WILL BE UTILIZED FOR BIDDING PURPOSES.

TOTAL PROJECT BID AMOUNT IN WORDS

SUMMARY OF PAY ITEMS FOR INDIAN RIVER COUNTY

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
101-1	MOBILIZATION/DEMOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-2	PREVENTION, CONTROL, & ABATEMENT OF EROSION & WATER POLLUTION	LS	1
110-1-1	CLEARING AND GRUBBING	LS	1
120-1	REGULAR EXCAVATION	CY	200
120-6	EMBANKMENT	CY	100
285-716	OPTIONAL BASE GROUP 16 - CEMENTED COQUINA (LBR-100) (16")	SY	220
286-1	ASPHALT APRON/DRIVEWAY CONSTRUCTION	SY	100
327-70-1	ASPHALT PAVEMENT MILLING (1")	SY	2,370
334-1-53A	SUPERPAVE ASPHALT CONCRETE (SP-9.5) (TRAFFIC C) (PG76-22) (1")	TN	140
334-1-53B	SUPERPAVE ASPHALT CONCRETE (SP-12.5) (TRAFFIC C) (PG76-22) (2-1/2")	TN	32
400-4-1	PRECAST CONCRETE BOX CULVERT (9'x6') INCLUDING ENDWALLS	LF	72
425-1-521	DITCH BOTTOM INLET (TYPE C) (<10')	EA	1
430-175-112	CONCRETE PIPE CULVERT, ROUND (12" S/CD) (CL III)	LF	8
430-175-124A	CONCRETE PIPE CULVERT, ROUND (24" S/CD) (CL III)	LF	40
430-175-124B	PIPE CULVERT (POLYPROPYLENE), ROUND (24" S/CD)	LF	20
430-982-129	MITERED END SECTION (CONCRETE) (24" CD) (4:1)	EA	1
520-3	CONCRETE VALLEY GUTTER	LF	280
530-3-4	RIPRAP, RUBBLE (F&I) (DITCH LINING)	TN	200
536-1-1	GUARDRAIL - ROADWAY, GENERAL TL-3	LF	175
536-7-3	SPECIAL GUARDRAIL POSTS - ENCASED POST FOR SHALLOW MOUNT	EA	5
536-85-20	GUARDRAIL END TREATMENT - TRAILING ANCHORAGE - SINGLE FACE FLARED END	EA	3
536-85-25	GUARDRAIL APPROACH TERMINAL (END ANCHORAGE ASSEMBLY) (ET-2000)	EA	1
570-1-1	PERFORMANCE TURF (SOD) (BAHIA)	SY	500
700-1-50	SIGN, RELOCATE	AS	4
706-3	RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS (AMBER/AMBER)	EA	38
711-11-121	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	LF	720
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	44
711-11-141	THERMOPLASTIC, STANDARD, WHITE, SKIP (6'-10') 6"	LF	226
711-11-221	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	LF	350
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF	70
711-11-231	THERMOPLASTIC, STANDARD, YELLOW, SKIP, (10'-30') 6"	LF	450
999-1A	AS-BUILT SURVEYING AND RECORD DRAWING PREPARATION (BY REGISTERED SURVEYOR)	LS	1
999-1B	TEMPORARY BY-PASS AND CANAL MAINTENANCE PUMPING	LS	1

PAY ITEM FOOTNOTES

102-1 COST OF MAINTENANCE OF TRAFFIC SHALL INCLUDE BUT NOT BE LIMITED TO ROAD CLOSURE AND DETOUR SIGNAGE, MESSAGE BOARDS, TYPE 'K' TEMPORARY BARRIER SYSTEM, CONSTRUCTION SIGNS, TEMPORARY STRIPING AND REFLECTIVE PAVEMENT MARKINGS, INCIDENTAL TEMPORARY PAVEMENT, DUST CONTROL, AND ALL OTHER ITEMS NECESSARY TO MEET THE MAINTENANCE OF TRAFFIC AS PRESCRIBED IN THE FDOT STANDARD PLAN INDEX 102.

104-2 COST TO INCLUDE ALL MATERIAL, LABOR, MAINTENANCE AND REMOVAL NECESSARY TO PREVENT SEDIMENT TRANSPORT BEYOND THE PROJECT LIMITS INCLUDING SILT FENCE, INLET PROTECTION, STAKED AND FLOATING TURBIDITY BARRIERS, AND DEWATERING DISCHARGE STRUCTURES WITH FLOC LOGS.

110-1-1 COST TO INCLUDE THE REMOVAL AND DISPOSAL OF RIP-RAP AND CONCRETE BLOCK HEADWALLS, CULVERTS, PIPES, CONCRETE VALLEY GUTTER INCLUDING SAWCUTTING, GUARDRAIL, ASPHALT REMOVAL INCLUDING SAWCUTTING, ROADWAY BASE, VEGETATION, TREES, ROCK AND BOULDER REMOVAL, LANDSCAPING, ABANDONED UTILITIES, EARTHEN BERMS AND MOUNDS, AND ALL OTHER ITEMS NECESSARY TO BE REMOVED TO CONSTRUCT THE PROJECT.

120-1 COST TO INCLUDE EXCAVATION, SHAPING, AND GRADING OF CANAL EMBANKMENTS.

120-6 COST TO INCLUDE FILLING OF CANAL EMBANKMENTS, ALL GRADING INCLUDING FINAL GRADING.

285-716 COST TO INCLUDE DENSITY TESTING AND PRIME COAT.

286-1 COST TO INCLUDE 1-1/2" TYPE SP-12.5 ASPHALTIC CONCRETE, 6" BASE MATERIAL, 12" SUBGRADE, EXCAVATION, GRADING, DENSITY TESTING, AND ALL INCIDENTAL WORK NECESSARY FOR CONSTRUCTION.

334-1-53A COST TO INCLUDE TACK COAT.

400-4-1 COST TO INCLUDE ALL MEANS AND METHODS TO INSTALL THE PRE-CAST REINFORCED CONCRETE BOX CULVERT AND ENDWALLS IN THE "DRY CONDITION", INCLUDING TEMPORARY SHEET PILING, DEWATERING, PUMPING, DEWATERING PERMIT, AND GROUNDWATER TESTING. EXCAVATION, COARSE AGGREGATE BEDDING, RAM-NEK GASKET, PIPE PULLER, FILTER FABRIC, BACKFILLING, MAINTENANCE OF EXISTING UTILITIES, CONCRETE AND DENSITY TESTING SHALL BE INCLUDED IN THIS ITEM.

430-175-XXX COST TO INCLUDE ALL MEANS AND METHODS TO INSTALL THE CULVERTS IN THE "DRY CONDITION", INCLUDING TEMPORARY SHEET PILING, DEWATERING, PUMPING, DEWATERING PERMIT, AND GROUNDWATER TESTING. EXCAVATION, CONCRETE COLLAR, BAR PIPE CONNECTORS, FILTER FABRIC, BACKFILLING TO PROPOSED GRADE, AND DENSITY TESTING SHALL BE INCLUDED IN THIS ITEM.

530-3-4 COST TO INCLUDE FILTER FABRIC, CONCRETE PILE REMNANT OR CAST-IN-PLACE BEAM, AND #57 STONE.

536-1-1 COST TO INCLUDE COST OF 2-INCH MISCELLANEOUS ASPHALT.

570-1-1 COST TO INCLUDE FINAL GRADING, PINNING, WATERING, FERTILIZER, MOWING, TOOLS, EQUIPMENT, LABOR, AND ALL INCIDENTAL ITEMS NECESSARY TO ESTABLISH THE SOD. BAHIA SOD SHALL BE PLACED ON ALL DISTURBED, NON-IRRIGATED AREAS.

700-1-50 COST TO INCLUDE REMOVAL, RELOCATION, AND RESETING OF TRAFFIC SIGNS.

711-11-XXX COST TO INCLUDE TEMPORARY STRIPING.

999-1B COST TO INCLUDE, BUT NOT LIMITED TO, ALL MATERIAL AND LABOR NECESSARY TO INSTALL, MAINTAIN, AND OPERATE THE TEMPORARY BY-PASS AND CANAL MAINTENANCE PUMPING SYSTEM OR PIPED DIVERSION CANAL TO MEET THE CONDITIONS OF THE INDIAN RIVER FARMS WATER CONTROL DISTRICT PERMIT FOR STORMWATER FLOW MAINTENANCE. THIS SHALL SPECIFICALLY INCLUDE PUMPS, FUEL, CARRIER PIPES, TEMPORARY BYPASS CULVERTS, TEMPORARY PAVEMENT RESTORATION, TEMPORARY RUBBLE REVETMENT AND PHASING RELOCATIONS.

ADDENDUM #1



No.	Revision	Date	By	INDIAN RIVER COUNTY 1801 27th STREET VERO BEACH, FL 32960 (772) 567-8000		DESIGNED BY: M. WINSLOW, P.E.	SECTION 15 & 22	DATE: 4/9/2024	WATERS EDGE CULVERT REPLACEMENT SUMMARY OF PAY ITEMS	SHEET 4 OF 30
				Department of Public Works Engineering Division	DRAWN BY: K. HANSEN	TOWNSHIP 33S	COUNTY PROJECT NO.			
					APPROVED BY: M. WINSLOW, P.E.	RANGE 39E	IRC-2201			

SUMMARY OF PAY ITEMS FOR WATERS EDGE HOA			
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
101-1	MOBILIZATION/DEMobilIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-2	PREVENTION, CONTROL, & ABATEMENT OF EROSION & WATER POLLUTION	LS	1
110-1-1	CLEARING AND GRUBBING	LS	1
120-1	REGULAR EXCAVATION	CY	400
120-6	EMBANKMENT	CY	250
160-4	TYPE "B" STABILIZATION (LBR 40) (12")	SY	200
285-716	OPTIONAL BASE COURSE - CEMENTED COQUINA (LBR-100) (16")	SY	145
334-1-53B	SUPERPAVE ASPHALT CONCRETE (SP-12.5) (TRAFFIC C) (PG76-22) (2-1/2")	TN	10
425-1-521	DITCH BOTTOM INLET (TYPE C) (<10')	EA	1
430-175-115	PIPE CULVERT (POLYPROPYLENE), ROUND, (15" SD)	LF	15
430-175-160	CONCRETE PIPE CULVERT, ROUND, (60" S/CD) (CL III)	LF	256
530-3-4	RIPRAP, RUBBLE (F&I) (DITCH LINING)	TN	400
570-1-1	PERFORMANCE TURF (SOD) (BAHIA)	SY	1000
570-1-2	PERFORMANCE TURF (SOD) (ST. AUGUSTINE)	SY	500
571-1-12	PLASTIC EROSION MAT, TRM TYPE II	SY	400
1050-16-003	REMOVE & DISPOSE EXIST. 6" WATER MAIN	LF	100
1050-31-106	(F&I) 6" MJ C-153 45° BEND (WATER) WITH MEGA-LUG RESTRAINTS	EA	6
1050-31-206	UTILITY PIPE (F&I) (C900 PVC) (WATER MAIN) (6")	LF	100
1080-11-307	(F&I) LINE STOP ASSEMBLY (6")	EA	1
1080-24-106	UTILITY FIXTURE (F&I) RESILIENT SEAT GATE VALVE (6")	EA	1
999-1A	AS-BUILT SURVEYING AND RECORD DRAWING PREPARATION (BY REGISTERED SURVEYOR)	LS	1
999-1B	TEMPORARY BY-PASS AND CANAL MAINTENANCE PUMPING	LS	1

PAY ITEM FOOTNOTES

102-1 COST OF MAINTENANCE OF TRAFFIC SHALL INCLUDE BUT NOT BE LIMITED TO ROAD CLOSURE AND DETOUR SIGNAGE, MESSAGE BOARDS, TYPE "K" TEMPORARY BARRIER SYSTEM, CONSTRUCTION SIGNS, TEMPORARY STRIPING AND REFLECTIVE PAVEMENT MARKINGS, INCIDENTAL TEMPORARY PAVEMENT, DUST CONTROL, AND ALL OTHER ITEMS NECESSARY TO MEET THE MAINTENANCE OF TRAFFIC AS PRESCRIBED IN THE FDOT STANDARD PLAN INDEX 102.

104-2 COST TO INCLUDE ALL MATERIAL, LABOR, MAINTENANCE AND REMOVAL NECESSARY TO PREVENT SEDIMENT TRANSPORT BEYOND THE PROJECT LIMITS INCLUDING SILT FENCE, INLET PROTECTION, STAKED AND FLOATING TURBIDITY BARRIERS, AND DEWATERING DISCHARGE STRUCTURES WITH FLOC LOGS.

110-1-1 COST TO INCLUDE THE REMOVAL AND DISPOSAL OF RIP-RAP AND CONCRETE BLOCK HEADWALLS, CULVERTS, PIPES, CONCRETE VALLEY GUTTER INCLUDING SAWCUTTING, GUARDRAIL, ASPHALT REMOVAL INCLUDING SAWCUTTING, ROADWAY BASE, VEGETATION, TREES, ROCK AND BOULDER REMOVAL, LANDSCAPING, ABANDONED UTILITIES, EARTHEN BERMS AND MOUNDS, AND ALL OTHER ITEMS NECESSARY TO BE REMOVED TO CONSTRUCT THE PROJECT.

120-1 COST TO INCLUDE EXCAVATION, SHAPING, AND GRADING OF CANAL EMBANKMENTS AND GRADING OF FLOW LINES.

120-6 COST TO INCLUDE FILLING OF CANAL EMBANKMENTS, ALL GRADING INCLUDING FINAL GRADING.

160-4 COST TO INCLUDE DENSITY TESTING.

285-716 COST TO INCLUDE DENSITY TESTING AND PRIME COAT.

430-175-XXX COST TO INCLUDE ALL MEANS AND METHODS TO INSTALL THE CULVERTS IN THE "DRY CONDITION", INCLUDING TEMPORARY SHEET PILING, DEWATERING, PUMPING, DEWATERING PERMIT, AND GROUNDWATER TESTING. EXCAVATION, CONCRETE COLLAR, BAR PIPE CONNECTORS, FILTER FABRIC, BACKFILLING TO PROPOSED GRADE, AND DENSITY TESTING SHALL BE INCLUDED IN THIS ITEM.

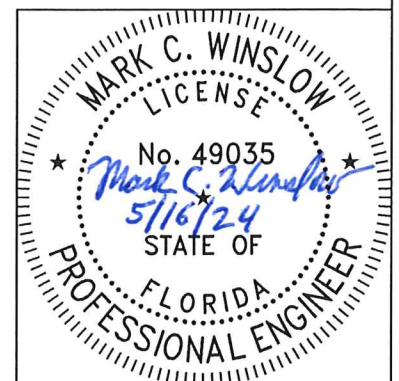
530-3-4 COST TO INCLUDE FILTER FABRIC, CONCRETE PILE REMNANT OR CAST-IN-PLACE BEAM, AND #57 STONE. 

570-1-X COST TO INCLUDE FINAL GRADING, PINNING, WATERING, FERTILIZER, MOWING, TOOLS, EQUIPMENT, LABOR, AND ALL INCIDENTAL ITEMS NECESSARY TO ESTABLISH THE SOD. BAHIA SOD SHALL BE PLACED ON ALL DISTURBED, NON-IRRIGATED AREAS. ST. AUGUSTINE SOD SHALL BE PLACED ADJACENT TO LANDSCAPED AREAS AS DIRECTED BY THE ENGINEER.

571-1-12 COST TO INCLUDE GRADING AND SOD PINNING.

999-1B COST TO INCLUDE, BUT NOT LIMITED TO, ALL MATERIAL AND LABOR NECESSARY TO INSTALL, MAINTAIN, AND OPERATE THE TEMPORARY BY-PASS AND CANAL MAINTENANCE PUMPING SYSTEM TO MEET THE CONDITIONS OF THE INDIAN RIVER FARMS WATER CONTROL DISTRICT PERMIT FOR STORMWATER FLOW MAINTENANCE. THIS SHALL SPECIFICALLY INCLUDE PUMPS, FUEL, CARRIER PIPES, TEMPORARY PAVEMENT RESTORATION, TEMPORARY RUBBLE REVETMENT AND PHASING RELOCATIONS.

ADDENDUM #1



No.	Revision	Date	By
△	BID ADDENDUM #1	5/14/2024	KPH



INDIAN RIVER COUNTY
1801 27th STREET
VERO BEACH, FL 32960
(772) 567-8000

Department of Public Works
Engineering Division

DESIGNED BY: M. WINSLOW, P.E.	SECTION 15 & 22	DATE: 4/9/2024
DRAWN BY: K. HANSEN	TOWNSHIP 33S	COUNTY PROJECT NO.
APPROVED BY: M. WINSLOW, P.E.	RANGE 39E	FIELD BOOK NO. PAGE
		IRC-2201

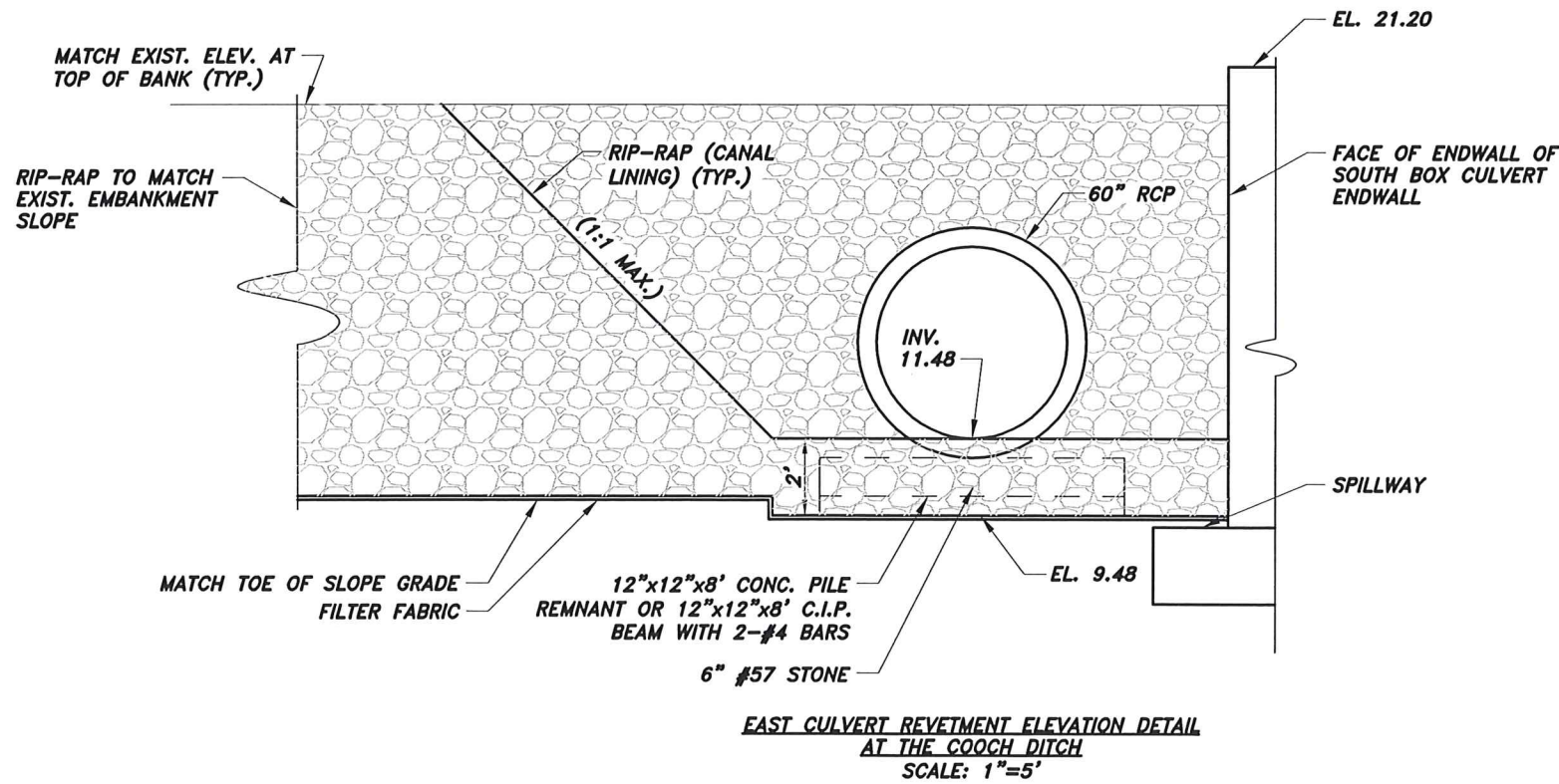
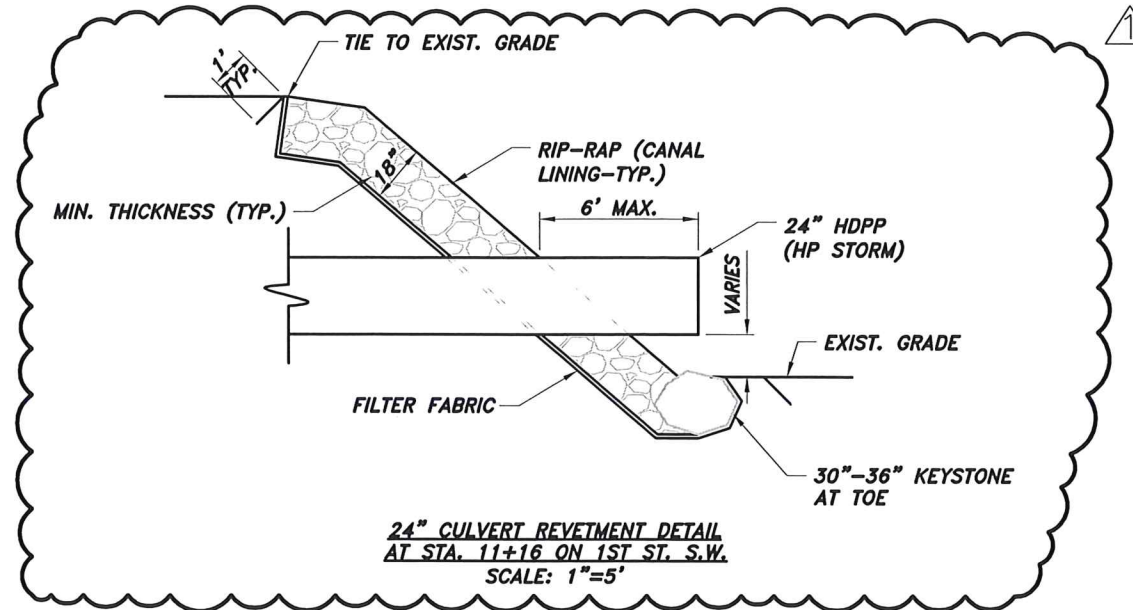
WATERS EDGE CULVERT REPLACEMENT
SUMMARY OF PAY ITEMS

SHEET
5
OF 30

RIP-RAP REVETMENT NOTES

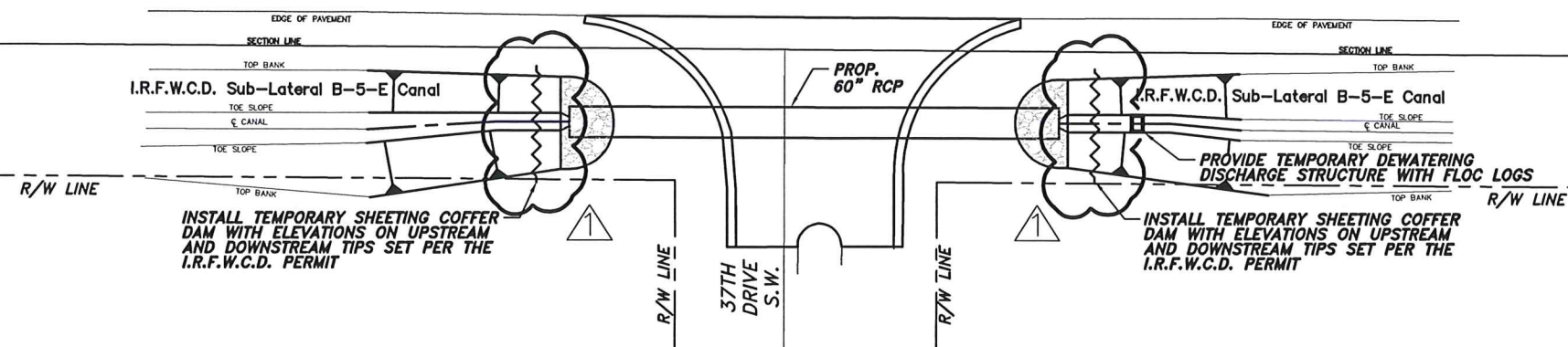
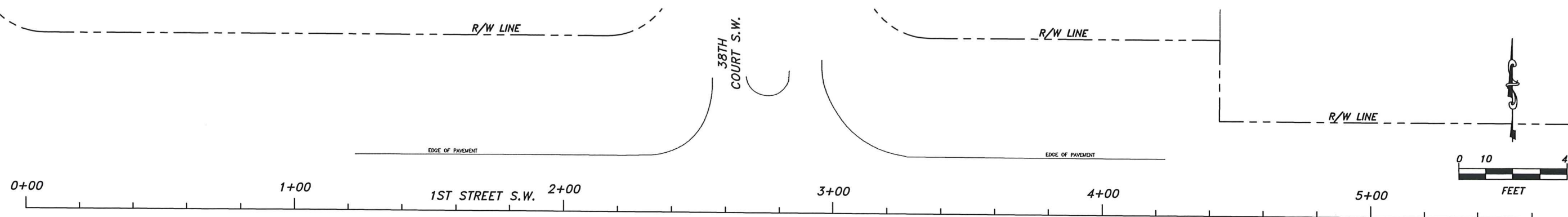
1. RIP-RAP MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 530, FOR RIP-RAP (CANAL LINING) AND AS NOTED ON THE PLANS.

2. FILTER FABRIC FOR RIP-RAP SHALL MEET THE REQUIREMENTS OF FDOT STANDARD SPECIFICATION SECTION 985 FOR TYPE D-2 FABRIC.



ADDENDUM #1

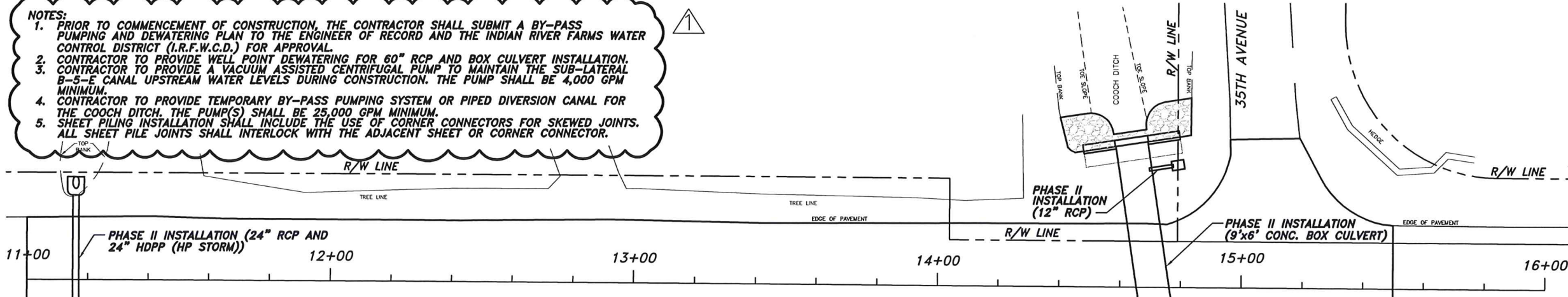
No.	Revision	Date	By	INDIAN RIVER COUNTY 1801 27th STREET VERO BEACH, FL 32960 (772) 567-8000	DESIGNED BY: M. WINSLOW, P.E. DRAWN BY: K. HANSEN APPROVED BY: M. WINSLOW, P.E.	SECTION 15 & 22 TOWNSHIP 33S RANGE 39E FIELD BOOK NO. PAGE	DATE: 4/9/2024 COUNTY PROJECT NO. IRC-2201	WATERS EDGE CULVERT REPLACEMENT REVETMENT DETAILS	SHEET 21 OF 30
1	BID ADDENDUM #1	5/14/2024	KPH						



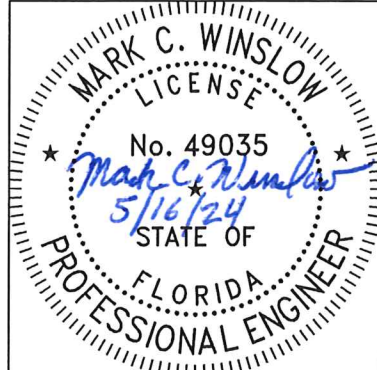
PHASE I - 60" RCP INSTALLATION AND DEWATERING PLAN AT 37TH DRIVE S.W.

- LEGEND:**
- SILT FENCE
 - INLET PROTECTION

- NOTES:**
1. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A BY-PASS PUMPING AND DEWATERING PLAN TO THE ENGINEER OF RECORD AND THE INDIAN RIVER FARMS WATER CONTROL DISTRICT (I.R.F.W.C.D.) FOR APPROVAL.
 2. CONTRACTOR TO PROVIDE WELL POINT DEWATERING FOR 60" RCP AND BOX CULVERT INSTALLATION.
 3. CONTRACTOR TO PROVIDE A VACUUM ASSISTED CENTRIFUGAL PUMP TO MAINTAIN THE SUB-LATERAL B-5-E CANAL UPSTREAM WATER LEVELS DURING CONSTRUCTION. THE PUMP SHALL BE 4,000 GPM MINIMUM.
 4. CONTRACTOR TO PROVIDE TEMPORARY BY-PASS PUMPING SYSTEM OR PIPED DIVERSION CANAL FOR THE COOCH DITCH. THE PUMP(S) SHALL BE 25,000 GPM MINIMUM.
 5. SHEET PILING INSTALLATION SHALL INCLUDE THE USE OF CORNER CONNECTORS FOR SKEWED JOINTS. ALL SHEET PILE JOINTS SHALL INTERLOCK WITH THE ADJACENT SHEET OR CORNER CONNECTOR.

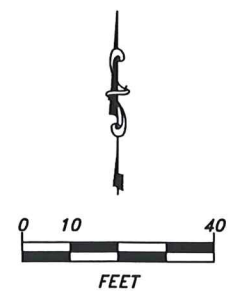
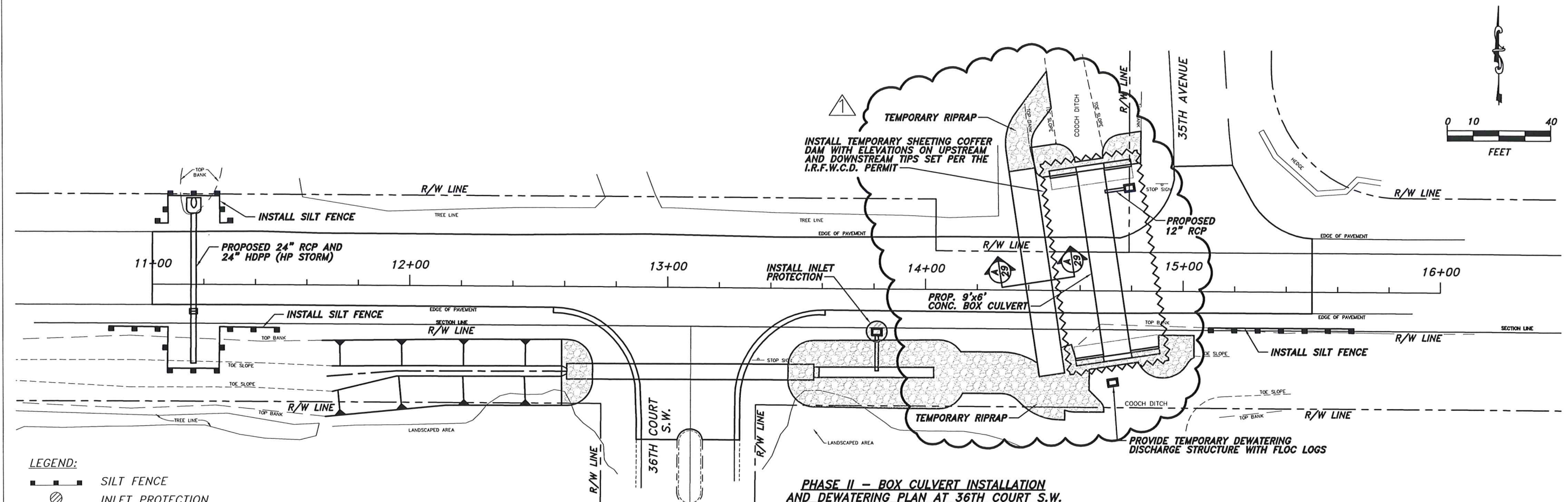


PHASE I - 60" RCP INSTALLATION AND DEWATERING PLAN AT 36TH COURT S.W.

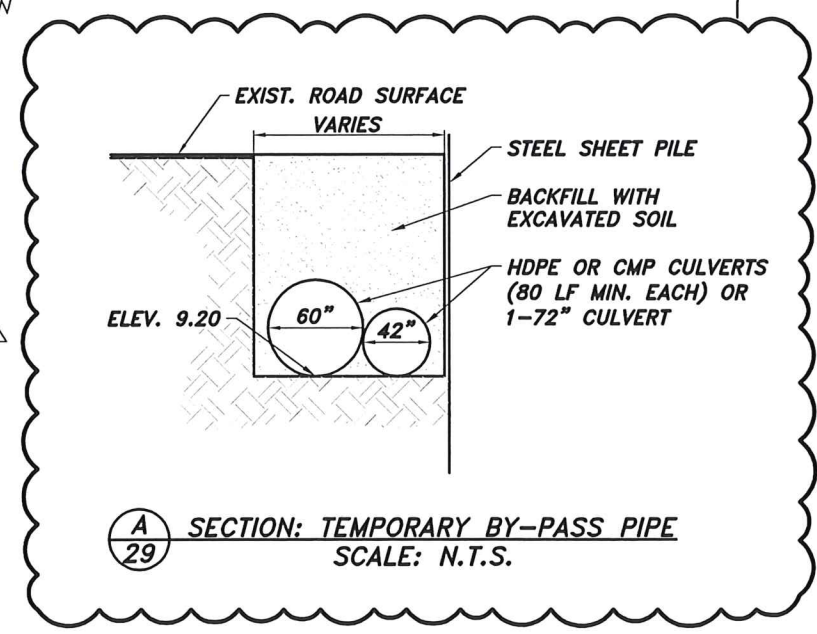


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				Department of Public Works Engineering Division	DRAWN BY: K. HANSEN	RANGE 39E	COUNTY PROJECT NO.		
▲	BID ADDENDUM #1	5/14/2024	KPH		APPROVED BY: M. WINSLOW, P.E.	FIELD BOOK NO. PAGE	IRC-2201		



LEGEND:
 SILT FENCE
 INLET PROTECTION



PHASE II - BOX CULVERT INSTALLATION AND DEWATERING PLAN AT 36TH COURT S.W.

ADDENDUM #1



No.	Revision	Date	By
1	BID ADDENDUM #1	5/14/2024	KPH

INDIAN RIVER COUNTY
 1801 27th STREET
 VERO BEACH, FL 32960
 (772) 567-8000

Department of Public Works
 Engineering Division

DESIGNED BY: M. WINSLOW, P.E.	SECTION 15 & 22	DATE: 4/9/2024
DRAWN BY: K. HANSEN	TOWNSHIP 33S	COUNTY PROJECT NO.
APPROVED BY: M. WINSLOW, P.E.	RANGE 39E	IRC-2201
	FIELD BOOK NO. PAGE	

WATERS EDGE CULVERT REPLACEMENT
 DEWATERING & EROSION CONTROL