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Kisinger Campo & Associates Corp. 201 N. Franklin Street Suite 400 Tampa, FL 33602 Florida C.O.A. No. 02317 Scott A. Betz, P.E. No. 81282

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO. SHEET DESCRIPTION 2A SIGNATURE SHEET

GENERAL NOTES (2 OF 2)

9 - 11 CROSS SECTIONS

12 RETAINING WALL DETAILS (1 OF 2)

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7	DATE	DESCRIPTION	DATE	PROJECT #		SURVEYED					
2	12/2020	/1\ REVISED SHEETS		CUBUEN "		555101155		00/2010			
9				SURVEY #		DESIGNED	SAB	08/2019			
207				SEC./TWN./RGE		DRAWN	ARF	08/2019			
9 ∑				SCALE		CHECKED	DBT	08/2019			





- 1. FDOT STRUCTURES MANUAL, DATED JANUARY 2020.
- 2. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRFD) BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.
- 3. FDOT DESIGN MANUAL (TOPIC 625-000-002), DATED JANUARY 2020.

GENERAL SPECIFICATIONS

- 1. FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JULY 2020 EDITION.
- 2. FDOT FY 2020-21 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION.

PRIMARY SCOPE OF WORK

- 1. REMOVE AND REPLACE EXISTING SHEET PILE WALL.
- 2. REGRADE UPLAND CHANNEL BANKS.
- 3. REPAIR VOID AT WEIR.

DRAWINGS AND DIMENSIONS

- 1. DO NOT SCALE DRAWINGS FOR DIMENSIONS NOT GIVEN.
- 2. ALL DIMENSIONS ARE IN FEET AND INCHES, EITHER HORIZONTALLY OR VERTICALLY, UNLESS NOTED OTHERWISE.

EXISTING CONDITIONS

THE CONTRACTOR SHALL BE AWARE THAT PORTIONS OF THE EXISTING SHEET PILE WALL HAVE FAILED SUBSEQUENT TO THE FIELD SURVEY FOR THESE PLANS. VERIFY EXISTING FIELD CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING REPAIRS OR ORDERING ANY MATERIALS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND.

DATUM

UNLESS NOTED OTHERWISE, ALL ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND REFERENCE PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2011 ADJUSTMENT).

ENVIRONMENT

SUBSTRUCTURE: MODERATELY AGGRESSIVE

CONCRETE

ALL CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 346 OF THE STANDARD SPECIFICATIONS.

CONCRETE STRENGTH							
CLASS	LOCATION	MINIMUM 28 DAY COMPRESSIVE STRENGTH (PSI)					
IV	BULKHEAD CAP	5,500					
III (SEAL)	WEIR CONNECTION	3,000					

CONCRETE COVER

CONCRETE COVER SHOWN IN THE PLANS DOES NOT INCLUDE PLACEMENT OR FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE FDOT STANDARD SPECIFICATIONS FOR ALLOWABLE TOLERANCES. UNLESS NOTED OTHERWISE, THE FOLLOWING CONCRETE COVERS SHALL BE USED:

CONCRETE COVER				
LOCATION	MODERATELY AGGRESSIVE			
SURFACES CAST AGAINST EARTH AND IN CONTACT WITH WATER	4"			

JOINTS IN CONCRETE

CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT LOCATIONS INDICATED ON THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE APPROVAL BY THE ENGINEER.

DEMOLITION

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DEBRIS FROM FALLING INTO THE WATERWAY DURING DEMOLITION, EXCAVATION, AND CONSTRUCTION. ANY FALLEN DEBRIS SHALL BE PROMPTLY REMOVED.

MONITORIN

1. MONITOR EXISTING STRUCTURES IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION NUMBER 108 AND NOTIFY THE ENGINEER AS NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EXISTING AND PROPOSED STRUCTURES DURING CONSTRUCTION OPERATIONS.

2. AN EXISTING 15" GRAVITY MAIN SOUTH OF THE BRIDGE HAS BEEN IDENTIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MONITORING THE GRAVITY MAIN DURING ALL CONSTRUCTION ACTIVITIES.

STAGING AREA

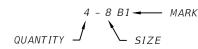
THE CONTRACTOR MAY UTILIZE COUNTY PROPERTY AT THE NORTHEAST CORNER OF HARVARD AVENUE AND BAYSHORE CANAL FOR PROJECT STAGING. CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED WITHIN 10FT OF THE EXISTING RETAINING WALL.

TEMPORARY TRAFFIC CONTROL PLAN

PERFORM MAINTENANCE OF TRAFFIC AS NECESSARY, IN ACCORDANCE WITH STANDARD PLANS 102 LEVEL INDICES. FOR NECESSARY MAINTENANCE OF TRAFFIC NOT MEETING THE REQUIREMENTS OF THE STANDARD PLANS, SUBMIT A MAINTENANCE OF TRAFFIC PLAN, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, FOR APPROVAL BY THE COUNTY.

REINFORCING STEEL

- 1. ALL REINFORCING STEEL SHALL BE ASTM A615-96, GRADE 60.
- 2. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCEMENT ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.
- 3. REINFORCEMENT DETAIL DIMENSIONS ARE OUT-TO-OUT OF BARS.
- 4. TYPICAL REINFORCING BARS ARE DESIGNATED THUS.



INCIDENTAL ITEMS

- 1. PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR BID ITEMS CONTAINED IN THIS CONTRACT.
- 2. THE COST OF FILLING HOLES RESULTING FROM THE REMOVAL OF THE EXISTING CONCRETE SHEET PILE WALLS IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS SECTION 110-10.2 SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAY ITEM NO. 110-73 REMOVE EXISTING BULKHEAD.
- 3. THE COST OF ALL LABOR, EQUIPMENT, MATERIALS, AND OTHER INCIDENTAL ITEMS RELATED TO THE INSTALLATION OF MECHANICAL ANCHORS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAY ITEM 455-87 ANCHOR BAR, STEEL.
- 4. THE COST OF ALL LABOR, EQUIPMENT, MATERIALS, AND OTHER INCIDENTAL ITEMS RELATED TO THE CONSTRUCTION OF THE NORTH END SEAWALL CONNECTION SHALL BE IN THE CONTRACT UNIT PRICE FOR PAY ITEM 455-133-3 SHEET PILING, STEEL, F&I, PERMANENT.

SHEET PILE WALL COATING NOTES

COAT STEEL SHEET PILING IN ACCORDANCE WITH SECTION 560-11 OF THE FDOT STANDARD SPECIFICATIONS.

SHEET PILE WALL NOTES

PROVIDE STEEL SHEET PILING WHICH MEET OR EXCEED THE PROPERTIES NOTED

BELOW:

SECTION MODULUS (ELASTIC): 30.2 IN3/FT
MOMENT OF INERTIA: 184.2 IN4/FT
FLANGE THICKNESS: 0.375"
WEB THICKNESS: 0.375"

STRUCTURAL STEEL: HOT FORMED, A572 GRADE 50

- 1. THE SHEET PILE WALL SECTIONS SHOWN IN THE PLANS ARE FOR INFORMATIONAL PURPOSES, BUT MEET THE MINIMUM REQUIREMENTS NOTED ABOVE.
- 2. SUBMIT SHEET PILE WALL SHOP DRAWINGS TO THE ENGINEER PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL ANTICIPATE THAT DIFFICULT INSTALLATION OF SHEET PILES MAY BE ENCOUNTERED WITHIN THE PROJECT LIMITS. CONCRETE AND RUBBLE RIPRAP EXISTS WITHIN THE CHANNEL LIMITS. LAYERS OF STIFF CLAYS AND CEMENTED SILTS ARE PRESENT AT APPROXIMATE ELEVATION -8FT. SPECIAL EQUIPMENT AND/OR INSTALLATION METHODS INCLUDING THE USE OF PREFORMED HOLES, PUNCHING, ETC. MAY BE REQUIRED TO INSTALL THE SHEET PILES TO THE REQUIRED MINIMUM TIP ELEVATION. INSTALLATION, INCLUDING THE COST OF SPECIAL INSTALLATION METHODS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAY ITEM NO. 455-133-3 STEEL SHEET PILING, F&I PFRMANENT.
- 4. THE CONTRACTOR SHALL ANTICIPATE THE PRESENCE OF DEADMAN ANCHORS AT THE EXISTING WALL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE EXISTING WALL DURING CONSTRUCTION. DISCONNECTION AND REMOVAL OF THE EXISTING DEADMAN ANCHORS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAY ITEM NO. 110-73 REMOVE EXISTING BULKHEAD.

INSTALLATION NOTES

INSTALL NEW SHEET PILE WALL CAP TO ELEVATIONS EQUIVALENT OR GREATER THAN THE EXISTING CONCRETE SHEET PILE WALL CAP, AS SHOWN IN THE WALL CONTROL DRAWINGS. FINAL WALL ELEVATIONS SHALL NOT DEVIATE GREATER THAN 2" FROM THE ELEVATIONS SHOWN IN THE PLANS.

EXISTING WEIR

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE EXISTING WEIR WITHIN BAYSHORE CANAL, WITHIN THE PROJECT LIMITS, DURING ALL CONSTRUCTION OPERATIONS.

UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT SUNSHINE AT (800) 432-4770 AND ANY OTHER LOCAL UTILITIES NOT LESS THAN 48 HOURS PRIOR TO ANY EXCAVATIONS IN ORDER TO VERIFY EXISTING UTILITIES AT SITE OF CONSTRUCTION. IF ANY EXISTING UTILITIES CONFLICT WITH PROPOSED CONSTRUCTION METHODS, MATERIALS, OR EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE TEMPORARY OR PERMANENT RELOCATION OF ANY EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY.

UTILITY/AGENCY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBER
SPECTRUM COMMUNICATION FRONTIER COMMUNICATION FLORIDA POWER & LIGHT - DISTRIBUTION FLORIDA POWER & LIGHT - TRANSMISSION MANATEE COUNTY UTILITIES - WATER MANATEE COUNTY UTILITIES - SEWER	JAMES CRUZAN DENIS HUTTON GREG COKER GARY PETERSON ROBBY PHILLIPS JOE BURNS	727-329-2846 941-906-6722 941-723-4430 561-904-3665 941-792-8811 941-792-8811

DESCRIPTION PROJECT # SURVEYED 12/2020 ADDED LINE STYLE LEGEND SURVEY # DESIGNED 08/2019 SAR SEC./TWN./RGE DRAWN ARF 08/2019 SCALE CHECKED DBT 08/2019

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