

MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW)

ADDENDUM NO. 3
June 30, 2022

PROJECT: Improvements to SW 87 Avenue Bridge Over Canal C-100
Project No. 20220010

BID DUE DATE: July 6, 2022; 02:00 P.M.

FROM: Miami-Dade County DTPW
Capital Improvements Division
111 NW First Street, 14th Floor
Miami, FL 33128
305.375.2930

TO: Prospective Bidders and Interested Parties

This Addendum forms part of the project solicitation documents and will be incorporated into the Contract Documents, as applicable. Insofar as the Original Contract Documents, Drawings and Specifications are inconsistent, this Addendum shall govern. Please acknowledge receipt of this Addendum, at the time of bid submittal to Miami-Dade County, in the space provided on the "Acknowledgement of Addenda Form" provided with the project solicitation documents. Failure to acknowledge receipt of all addenda may be cause for disqualification.

CHANGES TO THE INVITATION TO BID:

A. Estimated Value:

1. Estimated Value has been changed from \$2,901,818.71 to \$2,938,491.65.

CHANGES TO THE BID FORM:

B. Delete Bid Form dated 06/24/2022 in its entirety and replace it with the attached Revised Bid Form for Addendum No. 3, dated 6/30/2022. Changes are as follows:

1. Delete Pay Item No. 450-8-24 Prestressed Beam: Florida Slab Beam, Beam Depth 15" Carbon Steel, Width 58-60", quantity 957 LF; and replace it with Pay Item 450-8-32 Prestressed Beam: Florida Slab Beam, Beam Depth 18" Carbon Steel, Width 52-54", quantity 924 LF.
2. Deleted Pay Item No. 400-9-1, Bridge Deck Planning, SY

CHANGES TO THE PLANS:

A. Volume 3 - Plans. Changes performed are enclosed in revision clouds.

1. Delete sheets no. 59 (Bridge Summary of Quantities), 66 (End Bent Detail), 68 (Beam Data Table), and 77 (Reinforcing Bar List (2 of 2)) and replace with the attached Revised Sheets for Addendum No. 3.

CHANGES TO RFI No. 2:

- A. Answer to RFI from Mr. Steve McNamara, ANZAC CONTRACTORS, INC.; on June 14, 2022, at 11:31 AM has changed.

MIAMI-DADE COUNTY
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1. Delete previous answer in its entirety and replace with the following: The bridge deck grooving shall only be used in the vehicle travel area. Not included in bike lanes. Pay item for Bridge Deck Planning has been eliminated. Please refer to the Revised Sheets for Addendum No. 3 and Revised Bid Form for Addendum No. 3.

END OF ADDENDUM NO. 3



Alfredo E. Muñoz, P.E.

Chief, Capital Improvements Division

Department of Transportation and Public Works (DTPW)

AM:kf

Cc:

Katherine Fernandez, DTPW
Roxana Bayarre, P.E., DTPW
Jacqueline Alcina, P.E., DTPW
Ryan Fisher, P.E., DTPW

Miguel Soria, P.E., DTPW
Laurie Johnson, ISD
Jhonnatan Escalante, ISD

Project File
Clerk of the board

Revised Bid Form for Addendum No. 3

Bid Form

PROJECT TITLE: Improvements to SW 87th Avenue Bridge Over C-100 Canal

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Item No	Quantity	Unit	Description	Written Unit Amount	Unit Price	Total
101-1-A	1.0	L.S.	Mobilization			
102-1A	1.0	L.S.	MAINTENANCE OF TRAFFIC			
104-11	112.0	L.F.	FLOATING SILT BARRIER (Includes maintenance, relocation and removal) (This item is contingent upon field conditions and may be increased, decreased or eliminated by the Engineer)			
104-13-1	2,706.0	L.F.	Staked Silt Fence			
104-18	8.0	EA.	Inlet Protection System			
108-1	1.0	L.S.	Protection of Existing Structures –Inspection and Settlement Monitoring			
110-1-1B	1.0	L.S.	CLEARING AND GRUBBING			
110-22A	5.0	EA	Tree Root and Branch Pruning			
120-1	474.0	C.Y.	REGULAR EXCAVATION			
120-4	3,629.0	C.Y.	SUBSOIL EXCAVATION (This item is contingent upon the actual field conditions and may be increased, decreased or eliminated by the Engineer)			
120-5	703.0	C.Y.	CHANNEL EXCAVATION			
120-6	5,416.0	C.Y.	EMBANKMENT (This item is contingent upon field conditions and may be increased, decreased or eliminated by the Engineer)			

CSCCRP_PROJECT_BID_ITEMS

06/30/2022 11:56 AM

Bidder must fill-in completely the next page for the bid to be valid.

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Revised Bid Form for Addendum No. 3

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Item No	Quantity	Unit	Description	Written Unit Amount	Unit Price	Total
160-4	4,381.0	S.Y.	TYPE "B" STABILIZATION (12" Thick) (Min. C.B.R. 30)			
210-1-2	4,068.0	S.Y.	LIMEROCK BASE (8" double course) (Primed)			
327-70-01	327.0	S.Y.	MILLING, 1" AVERAGE DEPTH			
334-1-13	459.0	TON	SUPERPAVE ASPHALTIC CONCRETE (Traffic C)			
337-7-82	228.0	TON	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22			
339-1	7.0	TON	MISCELLANEOUS ASPHALT PAVEMENT			
400-0-11	133.0	C.Y.	CONCRETE CLASS NS, GRAVITY WALL.			
400-2-10	175.6	C.Y.	CLASS II CONCRETE(APPROACH SLABS)			
400-2-5B	242.0	C.Y.	CONCRETE CLASS II (SUBSTRUCTURE)			
400-4-5	161.0	C.Y.	CONCRETE CLASS IV (SUBSTRUCTURE)			
400-4-47	164.0	C.Y.	Concrete Class IV, Cast in Place Topping with Shrinkage Reducing Admixture			
400-7-1	162.2	S.Y.	Bridge Deck Grooving			

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Item No	Quantity	Unit	Description	Written Unit Amount	Unit Price	Total
400-148	6.2	CF	Plain Neoprene Bearing Pads			
415-1-4	28,927.0	LB	REINFORCING STEEL (Superstructure)			
415-1-5	25,956.0	LB	REINFORCING STEEL (Substructure)			
415-1-9	26,924.0	LB	REINFORCING STEEL (APPROACH SLABS)			
425-1-201	3.0	EA.	INLETS (Curb) Type (P-9) (< 10')			
425-1-479	3.0	EA	Inlets, Curb, Type 7, Modify			
425-1-521	2.0	EA.	INLET {(DITCH BOTTOM)(TYPE C) (INCL. inlet Pav't. if required)}			
425-1-541A	1.0	EA	Inlets, Ditch Bottom, Type D, <10'			
425-1-902B	1.0	EA.	INLETS (Special) (>10')			
425-2-041	2.0	EA.	MANHOLE P-7<10'			
425-2-041A	4.0	EA.	MANHOLE P-7 > 10'			
425-5	2.0	EA.	ADJUST MANHOLE (This item is contingent upon field conditions and may be increased, decreased or eliminated by the Engineer)			

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Item No	Quantity	Unit	Description	Written Unit Amount	Unit Price	Total
430-175-118	196.0	L.F.	PIPE CULVERT OPTIONAL MATERIAL, Round Shape, 18"			
430-175-124	409.0	L.F.	PIPE CULVERT OPTIONAL MATERIAL, Round Shape, 24"			
430-175-148	16.0	L.F.	Pipe Culvert, Optional Material, Round, 48" S/CD			
430-175-218	20.0	L.F.	PIPE CULVERT,OPTIONAL MATERIAL,Other Elip/Arch, 18"			
430-524-100	1.0	EA	Straight Concrete Endwalls, 24", Single, Round			
430-94-1-1	81.0	L.F.	DESILT PIPE (0 TO 48")			
443-70-4	498.0	L.F.	EXFILTATION DRAIN (24" DIAMETER) (BITUMINOUS COATED CORRUGATED STEEL PIPE CULVERT) (2 2/3" X 1/2", 16 GAUGE) (Includes the cost of perforated pipe, ballast rock, excavation and backfilling with select fill material)			
450-8-32	924.0	L.F.	Prestressed Beam: Florida Slab Beam, Beam Depth 18" Carbon Steel, Width 52-54"			
455-113-24	1,219.0	L.F.	Auger Cast Pile for Bidges, 24" Diameter			
455-147-1	2.0	EA	Thermal Integrity Testing, Up to 4' Shaft Diameter			
458-1-11	127.0	L.F.	BRIDGE DECK EXPANSION JOINT (New Construction- F&I) (Poured Joint with Backer Rod)			
460-5-1830	1.0	EA.	MANATEE GATE- (Pipe diameter 18" to 30", or equivalent)			

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Item No	Quantity	Unit	Description	Written Unit Amount	Unit Price	Total
460-5-3648	1.0	EA.	MANATEE GATE - (Pipe diameters 36" to 48", or equivalent)			
515-4-1	198.0	L.F.	BULLET RAIL, SINGLE RAIL			
520-1-10	1,197.0	L.F.	CONCRETE CURB & GUTTER (Type F) (6" Curb, 18" Gutter) (Includes cost of limerock base and subgrade)			
520-70	235.0	S.Y.	Concrete Traffic Separator, Special Variable Width			
521-5-4	200.0	L.F.	Concrete Traffic Railing Barrier - Bridge (32" Vertical Face)			
522-1	671.0	S.Y.	CONCRETE SIDEWALK (4" Thick restoration and new, Class I Concrete, 3000 P.S.I.) (including pedestrian ramps and sidewalk curbs)			
522-2	184.0	S.Y.	CONCRETE SIDEWALK (6" Thick, 3000 P.S.I. concrete at 28 days) (including pedestrian ramps and sidewalk curbs)			
527-2	235.0	S.F.	DETECTABLE WARNING ON WALKING SURFACE			
530-3-4	131.0	TON	Riprap, Rubble, F&I, Ditch Lining			
530-4-6	543.0	S.Y.	Articulating Concrete Block Revetment System, Thickness 6"			
530-74	124.0	TON	BEDDING STONE (FDOT 530-2.3)			
536-1-1	280.0	L.F.	GUARDRAIL (Roadway) (Includes the cost of shop bent panels and end anchorage assembly)			

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Item No	Quantity	Unit	Description	Written Unit Amount	Unit Price	Total
536-73	139.0	L.F.	GUARDRAIL REMOVAL (Includes delivery and unloading at M-DPW 58th street yard)			
548-12	271.0	S.F.	RETAINING WALL SYSTEM, Permanant, Excluding Barrier			
550-10-928	180.0	L.F.	FENCING (Type Special) (5.1' to 6' Height) (Reset existing)			
550-60-915	1.0	L.S.	SFWM ACCESS GATE			
575-1-1	1,082.0	S.Y.	SODDING (Pensacola Bahia or match existing) (includes watering)			
580-1-1	1.0	L.S.	LANDSCAPE COMPLETE- SMALL PLANTS (Successful bidder to submit Schedule of Values at pre-construction meeting)			
580-1-2	1.0	L.S.	LANDSCAPE COMPLETE- LARGE PLANTS (Successful bidder to submit Schedule of Values at pre-construction meeting)			
580-3-8	4.0	EA	Decorative Urn Planter			
580-327-10	7.0	EA.	TREE REMOVAL (Under 12" to 6")			
580-327-23	8.0	EA.	RELOCATION OF TREES (Greater than 12" diameter up to 24" diameter)			
630-2-11	309.0	L.F.	CONDUIT, Furnish & Install, Open Trench			
630-2-16	212.0	L.F.	Conduit, Furnish & Install, Embedded			

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Item No	Quantity	Unit	Description	Written Unit Amount	Unit Price	Total
635-2-11	3.0	EA.	PULL & SPLICE BOX, Furnish & Install, 13" x 24" COVER SIZE			
635-3-13	6.0	EA	Junction Box, (F&I), Embedded			
639-1-111	1.0	AS.	ELECTRICAL POWER SERVICE, (Furnish & Install, Overhead, Meter Furnished by Power Company			
641-2-11	1.0	EA.	Prestressed Concrete Pole, F&I, Type P-II Pedestal			
700-1-60	16.0	AS.	SINGLE POST SIGN, REMOVE			
700-1-11B	9.0	AS.	SINGLE POST SIGN, F&I Ground Mount, Up to 12 SF			
700-13-15	5.0	EA	Retroreflective Sign Strip - F & I, 5'			
706-1-3	10.0	EA	Raised Pavement Marker, Type B			
710-11-121	2,905.0	L.F.	PAINTED PAVEMENT MARKINGS (Standard, White, solid, 6")			
710-11-123	288.0	L.F.	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"			
710-11-125	47.0	L.F.	PAINTED PAVEMENT MARKINGS (Standard, White, solid, 24")			
710-11-141	211.0	L.F.	PAINTED PAVEMENT MARKINGS (Standard) (White) (Skip) (6")			

CSCCRP_PROJECT_BID_ITEMS

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Item No	Quantity	Unit	Description	Written Unit Amount	Unit Price	Total
710-11-160	2.0	EA.	PAINTED PAVEMENT MARKINGS (Standard)(White)(Message)			
710-11-170	2.0	EA	PAINTED PAVEMENT MARKING (Standard) (White) (Arrows)			
710-11-221	1,690.0	L.F.	PAINTED PAVEMENT MARKINGS (Standard, Yellow, solid, 6")			
710-11-241B	475.0	L.F.	PAINTED PAVEMENT MARKINGS, Standard, Yellow, Skip 10'-30', 6"			
711-2	211.0	L.F.	SKIP TRAFFIC STRIPE (6' STRIPE, 10' SPACE) (WHITE THERMOPLASTIC) (6" WIDE)			
711-11-123	288.0	L.F.	THERMOPLASTIC (White) (Solid) (12")			
711-11-125	47.0	L.F.	THERMOPLASTIC (White) (Solid) (24")			
711-11-241	475.0	L.F.	THERMOPLASTIC (Yellow) (Skip) (6")			
711-14-160-Bike	4.0	EA	Thermoplastic, Preformed, White, Bicycle Message and Arrow			
711-15-201A	1,690.0	L.F.	Thermoplastic, Standard-Open Graded Asphalt Surfaces, Yellow, Solid, 6"			
711-16-101A	2,905.0	L.F.	THERMOPLASTIC, Standard, Other Surfaces, White, Solid, 6"			
715-1-12	7,000.0	L.F.	LIGHTING - CONDUCTORS (F & I) (No. 8 to No. 6)			

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Item No	Quantity	Unit	Description	Written Unit Amount	Unit Price	Total
715-7-11	1.0	EA.	LOAD CENTER (Includes Switch, Weatherhead & Wire at Service Point)			
715-11-115	6.0	EA.	Luminaire, F&I, Roadway, Wall Mount			

Total: _____

The bidder understands and agrees that the above total is inclusive of all work necessary to complete the job as described in the plans and specifications.

Quantities are established and are included only for the purpose of facilitating the uniform comparison of bids submitted. The County shall not be held responsible if the quantities are not accurate and all computations for compensation shall be based upon the actual work performed, whether greater or less than estimated quantities.

Tax Identification Number: _____

D.C. Certificate of competency No: _____

Bidder's Name: _____

Bidder's telephone Number: _____

Bidder's address: _____

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BIDDER ACKNOWLEDGES THAT INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL AND IN THE TOTAL BID PRICE ARE COSTS FOR COMPLYING WITH THE FLORIDA TRENCH SAFETY ACT (90-96), LAWS OF FLA. EFFECTIVE OCTOBER 1st, 1990. THE BIDDER FURTHER IDENTIFIES THE COSTS TO BE SUMMARIZED BELOW:

	Trench Safety Measure (Description)	Units of Measure (LF, SY)	Unit (Quantity)	Unit Cost	Extended Cost
A.					
B.					
C.					
D.					

FAILURE TO COMPLETE THE ABOVE MAY RESULT IN THE BID BEING DECLARED NON-RESPONSIVE

INDEX OF SHEETS

SHT. No.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3-4	ROADWAY TYPICAL SECTION
5	SUMMARY OF QUANTITIES AND PAY ITEM NOTES
6	EXISTING DRAINAGE STRUCTURES
7	SUMMARY OF DRAINAGE STRUCTURES
8	PROJECT LAYOUT
9	GENERAL NOTES
10-12	ROADWAY PLAN
13-16	ROADWAY PROFILE
17-21	DRAINAGE STRUCTURE SHEETS
22-25	DRAINAGE DETAILS
26-40	CROSS SECTIONS
41-44	CANAL CROSS SECTIONS
45	SLOPE PROTECTION DETAIL
46-47	STORM WATER POLLUTION PREVENTION PLAN
48-49	SFWM GATE DETAILS
50	FENCE DETAILS
51	SIGNING AND PAVEMENT MARKING QUANTITIES
52-54	SIGNING AND PAVEMENT MARKING PLAN
55-57	TEMPORARY TRAFFIC CONTROL PLAN
58	BRIDGE GENERAL NOTES
59	BRIDGE SUMMARY OF QUANTITIES
60	PLAN AND ELEVATION
61	BRIDGE TYPICAL SECTION
62	FOUNDATION LAYOUT
63	PILE DATA TABLE
64	END BENT 01
65	END BENT 02
66	END BENT DETAIL
67	FRAMING PLAN
68	BEAM DATA TABLE
69	SUPERSTRUCTURE PLAN
70	SUPERSTRUCTURE SECTION
71	SUPERSTRUCTURE DETAIL
72-73	FINISH GRADE ELEVATIONS
74	APPROACH SLAB
75	URN DETAILS
76-77	REINFORCING BAR LIST
78	LIGHTING GENERAL NOTES & QUANTITIES
79-80	LIGHTING PLAN
81	LIGHTING PLAN ELECTRIC SERVICE DETAIL
1-10	LANDSCAPE PLANS
A-9 - A-11*	REPORT OF CORE BORINGS
B-2*	ROADWAY SOIL SURVEY
UTV-1*	SUMMARY OF VERIFIED UTILITIES

*These sheets are contained in a separate digitally signed and sealed document.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2021-22 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

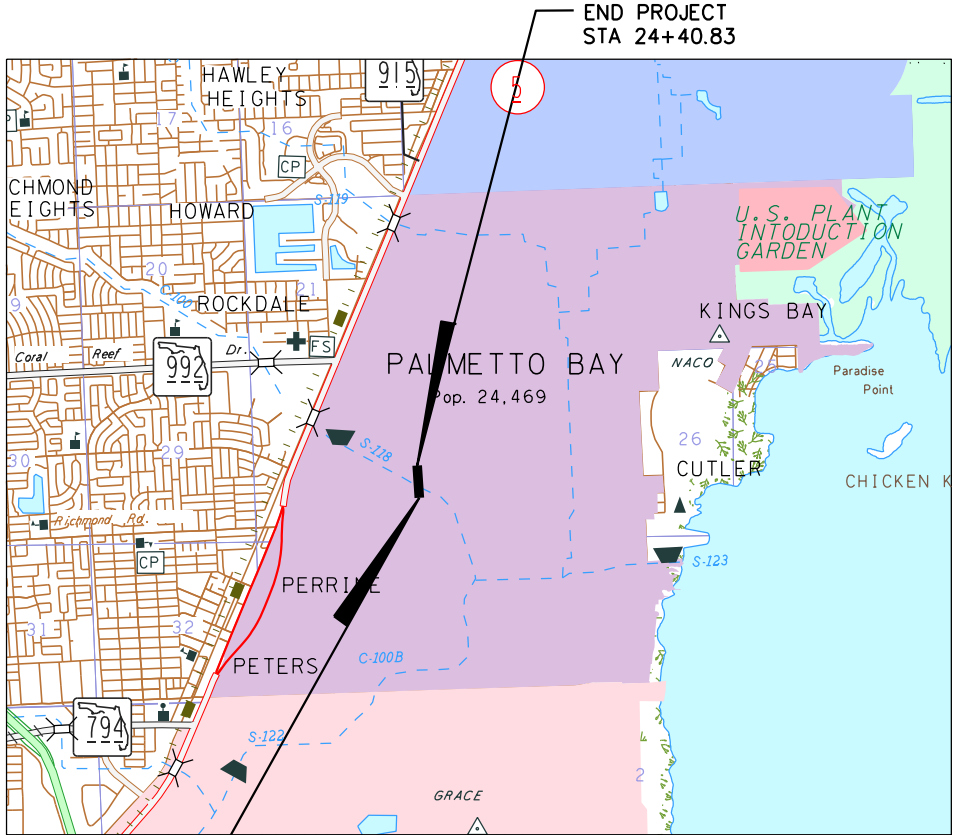
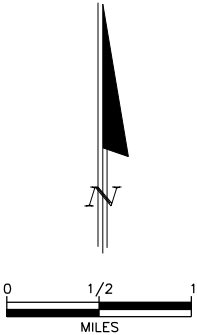
Standard Plans for Bridge Construction are included in the Structures Plans Component.

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3. THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS. THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC STANDARD PLANS, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AS AMENDED BY CONTRACT DOCUMENTS.



PLANS FOR PROPOSED
IMPROVEMENTS TO
SW 87th AVENUE
OVER THE C-100 CANAL
FROM SW 164 ST TO SW 163 TERR.

MIAMI-DADE COUNTY PROJECT NO. 20210098



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


- REVISIONS:
- ROADWAY SHEETS 4, 5, 9, 11, 19, 24, 42, 43 & 45.
 - BRIDGE SHEETS 59, 60, 62 & 63 (REVISED 06-23-2022)
 - BRIDGE SHEETS 59, 66, 68 & 77 (REVISED 06-27-2022)

LENGTH OF JOB		
	LIN. FT.	MILES
ROADWAY	1,102.61	0.209
BRIDGE	66.34	0.012
GROSS LENGTH OF JOB	1,168.95	0.221
EXCEPTIONS	N/A	N/A
NET LENGTH OF JOB	1,168.95	0.221

PREPARED FOR
MIAMI-DADE
MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION

STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

BY



R.J. Behar & Company, Inc.
Engineers • Planners
6861 SW 196 AV., SUITE 302
PEMBROKE PINE, FLORIDA 33332
Phone: (954) 680-7771

FINAL PLANS
MAY 2022

APPROVED	_____	COUNTY ENGINEER
RECOMMENDED	_____	ASSISTANT DIRECTOR
SUBMITTED	_____	HIGHWAY DIVISION
PROPOSED	_____	CHECK
DESIGN	_____	DRAWN
DATE	_____	SHEET 1 OF 81

SUMMARY OF QUANTITIES					
SECTION	PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL	
				P	F
FOUNDATION	455-113-24	AUGER CAST PILES FOR BRIDGES	LF	1219	△
	455-147-1	THERMAL INTEGRITY TESTING, UP TO 4' SHAFT DIAMETER	EA	2	
SUBSTRUCTURE	400-4-5	CONCRETE CLASS IV, BRIDGE SUBSTRUCTURE	CY	161	
	415-1-5	REINFORCING STEEL - BRIDGE SUBSTRUCTURE	LB	25956	
	548-12	RETAINING WALL SYSTEM, PERMANENT, EXCLUDING BARRIER	SF	271	
APPROACH SLABS	400-2-10	CONCRETE CLASS II, APPROACH SLABS	CY	167	
	415-1-9	REINFORCING STEEL - APPROACH SLABS	LB	26924	
SUPERSTRUCTURE	400-4-47	CONCRETE CLASS IV, CAST - IN - PLACE TOPPING WITH SHRINKAGE REDUCING ADMIXTURE	CY	164	
	400-7-1	BRIDGE DECK GROOVING	SY	162	
					△
	400-148	PLAIN NEOPRENE BEARING PADS	CF	6.2	
	415-1-4	REINFORCING STEEL - BRIDGE SUPERSTRUCTURE	LB	21812	
	450-8-24	PRESTRESSED BEAM: FLORIDA SLAB BEAM, BEAM DEPTH 18", WIDTH 53"	LF	924	△
	458-1-11	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I POURED JOINT WITH BACKER ROD	LF	127	
RAILING/BARRIERS	515-4-1	BULLET RAIL, SINGLE RAIL	LF	198	
	521-5-4	CONCRETE TRAFFIC RAILING - BRIDGE, 32" VERTICAL FACE	LF	200	
UTILITY PROTECTION	400-2-5	CONCRETE CLASS II	CY	242	
	415-1-4	REINFORCING STEEL	LB	6102	
MISCELLANEOUS	400-10-SP	DECORATIVE URN PLANTER	EA	4	
	415-1-4	REINFORCING STEEL (SUPER STRUCTURE)	LB	1013	
	400-2-10	CONCRETE CLASS II, URN CONCRETE PAD	CY	8.6	

PAY ITEM NOTES:

- △1
- 400-10-SP

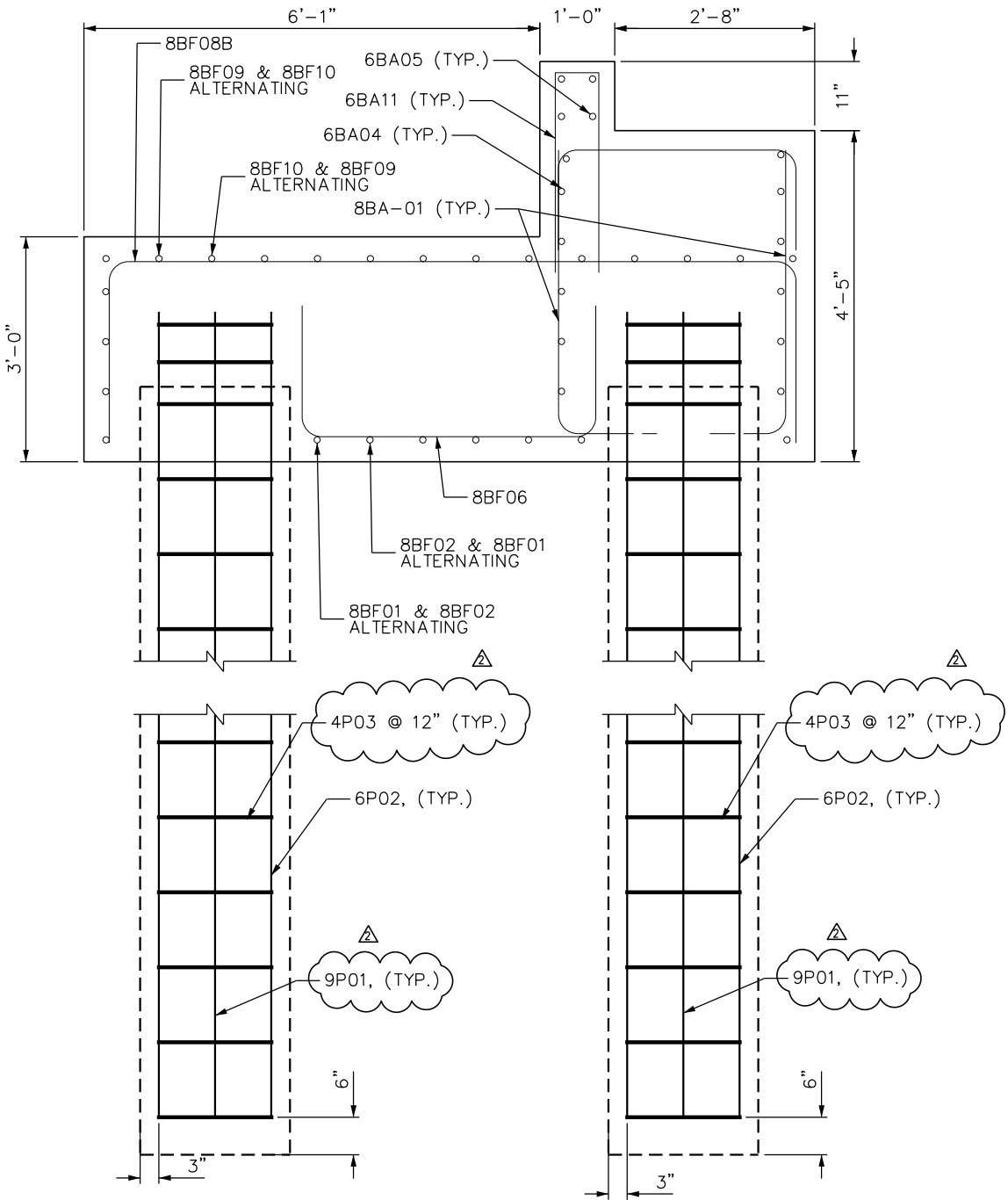
INCLUDES THE COST OF 4 ADHESIVE ANCHOR PER EACH DECORATIVE URN PLANTER.
- 400-2-5

INCLUDES THE COST OF A 1/4" PLYWOOD AND 6" CARDBOARD.
- 521-5-4

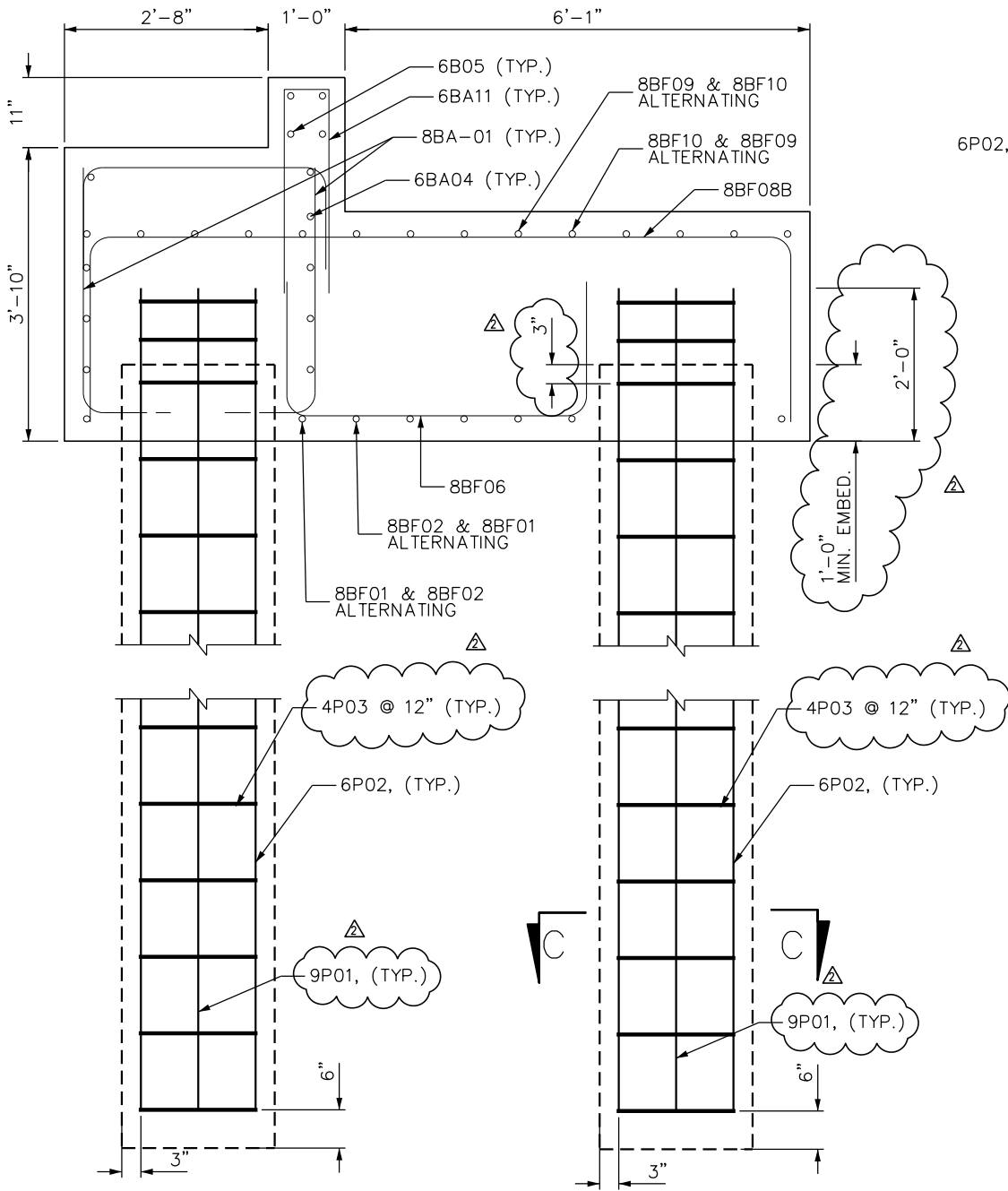
CONCRETE TRAFFIC RAILING SHALL INCLUDE SHOULDER BARRIER OUTSIDE THE BRIDGE AND ALL CONSTRUCTION INCIDENTAL TO THE BARRIER WALLS.
- 455-113-24

INCLUDES THE COST OF ONE STATIC LOAD TEST PILE (53') AND ALL TEST CONSTRUCTION INCIDENTALS.

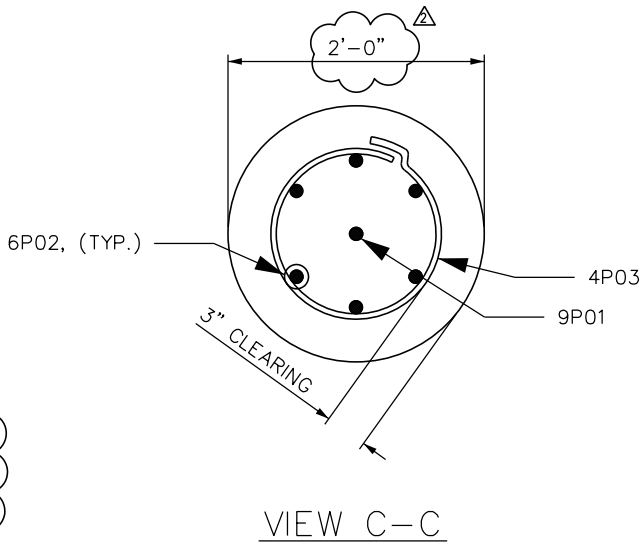
6/29/2022 11:03:43 AM 0:\21030_SW 87 Bridge over Canal C-100\CADD\struct.B1sumOfQuantities01.dgn jcrzgarcia



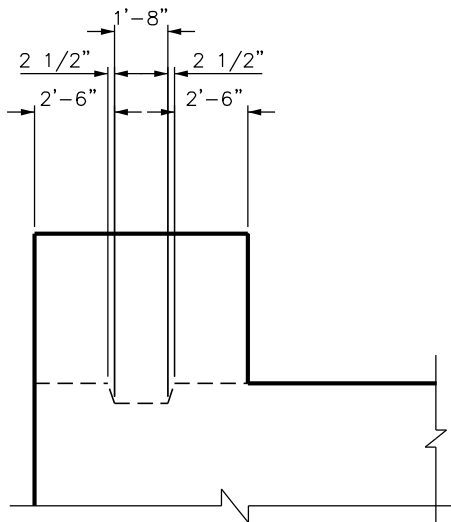
VIEW A-A



VIEW E-E



VIEW C-C



DETAIL B
KEYED CONSTRUCTION JOINT

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REVISIONS											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6/27/22	JC	REVISED ACP DIAMETER & ADDED ACP DETAILS									

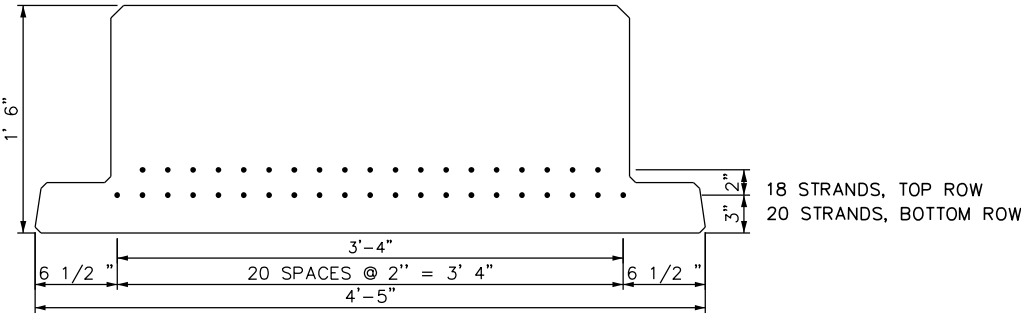
R.J. Behar & Company, Inc.
Engineers • Planners
6861 SW 196 Avenue, Suite 302
Pembroke Pines, Florida 33332

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY					

DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

END BENT DETAIL

FLORIDA SLAB BEAM – TABLE OF VARIABLES																														
LOCATION		BEAM TYPE	CONCRETE PROPERTIES		STND. PTR N. TYPE	PLAN VIEW CASE		ANGLE ϕ		BEAM DIMENSIONS*			REINFORCING STEEL																	
SPAN NO.	BEAM NO.		CLAS S	STRENGTHS (psi)		END 1	END 2	END 1	END 2	DIM W	DIM L	DIM R	3C		4D1	4D2	4D3		5E1		5E2		6Y1	6Y2	4K	NO. OF BAR SPACES		BAR SPACING *		
				28 DAY									RELEAS E	NO.	DIM C	DIM D	DIM D	NO.	DIM D	NO.	DIM E	NO.	DIM E	DIM Y	DIM Y	NO.	S1	S2	V1	V2
1	1&14	FSB18X53	IV	8,500	6,000	1	1	1	90	90	4'-5"	66'-0"	1 1/2"	61	4'-1 1/2"	2'-2 1 1/2"	2'-2 1 1/2"	27	2'-2 1 1/2"	---	---	112	4'-1 1/2"	3'-1 1/2"	3'-1 1/2"	212	31	1	10"	9"
1	2-13	FSB18X53	IV	8,500	6,000	1	1	1	90	90	4'-5"	66'-0"	1 1/2"	61	4'-1 1/2"	2'-2 1 1/2"	2'-2 1 1/2"	27	2'-2 1 1/2"	112	4'-3"	---	---	3'-1 1/2"	3'-1 1/2"	212	31	1	10"	9"



TYPE ① 38 STRANDS

STRAND DESCRIPTION: USE 0.60" DIAMETER, GRADE 270, LOW RELAXATION CARBON STEEL STRANDS STRESSED AT 44 KIPS EACH. AREA PER STRAND EQUALS 0.217 SQ. IN.

STRAND PATTERNS

NOTE: WORK THIS SHEET WITH FDOT DESIGN
STANDARD INDEXES 450-299 AND 450-453.

STRAND DEBONDING LEGEND

-- FULL BONDED STRANDS.

DIMENSION NOTES

*ALL LONGITUDINAL BEAM DIMENSIONS SHOWN ON
THIS SHEET WITH A SINGLE ASTERISK (*) ARE
MEASURED ALONG THE TOP OF BEAM AT THE
CENTERLINE.

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MARK		LENGTH		NO	TYP	STY		B		C		D		E		F		H		J		K		N	φ
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FT	IN	FT	IN	FT	IN	FT	IN	FT	IN	FT	IN	FT	IN	NO	ANG
FOUNDATION REINFORCEMENT SCHEDULE																									
8	BF01	40	0	11	10			38	3	1	9														
8	BF02	31	6	11	10			29	9	1	9														
8	BF03	12	0	18	11			8	0	2	0	2	0												
8	BF04	22	0	9	11			18	0	2	0	2	0												
6	BF05A	4	8	12	11			0	8	2	0	2	0												
6	BF05B	4	8	33	11			0	8	2	0	2	0												
8	BF06	7	6	12	11			4	0	1	9	1	9												
8	BF07	10	10	9	11			6	10	2	0	2	0												
8	BF08A	12	9	68	11			9	3	1	9	1	9												
8	BF08B	14	3	79	11			9	3	2	6	2	6												
8	BF09	40	0	12	10			38	3	1	9														
8	BF10	32	6	12	10			30	9	1	9														
8	BF11	11	11	8	18	3	3	9	3																
8	BF12	35	11	16	17	3		34	7																
WING REINFORCEMENT SCHEDULE (EACH OF 2 UNITS E/W)																									
8	BW01	9	3	20	1			9	3																
8	BW02	8	10	11	10			7	10	1	0														
8	BW03	9	3	16	1			9	3																
8	BW04	7	1	11	10			6	1	1	0														
ABUTMENT WALL REINFORCEMENT SCHEDULE																									
8	BA01	4	6	196	10			3	4	1	2														
8	BA02	5	10	98	11			3	2	1	4	1	4												
6	BA03	40	0	40	10			37	0	3	0														
6	BA04	32	8	40	10			29	8	3	0														
6	BA05	40	0	16	17	1		39	0																
6	BA06	28	8	16	17	1		27	8																
6	BA07	12	6	10	18	3	3	8	6																
6	BA11	5	10	196	11			0	6	2	8	2	8												
24" DIAMETER AUGER CAST PILES – REINFORCEMENT SCHEDULE (QUANTITIES FOR A TOTAL OF 23 ACP)																									
9	P01	53	6	23	1			53	6																
6	P02	53	6	138	1			53	6																
4	P03	5	1	1265	24			0	5	1	6														
DECORATIVE URN FOUNDATION REINFORCEMENT SCHEDULE (QUANTITIES FOR TWO FOUNDATIONS, AT ONE END BENT)																									
5	UF01	9	3	22	1			9	3																
4	UF02	8	3	22	1			8	3																
4	UF03	6	6	22	1			6	6																
4	UF04	2	8	22	17	3		2	0																
4	UF05	2	8	22	17	3		2	0																

jcruzgarcia

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6/28/2022

6/27/22

JC

REVISED ACP REINFORCING BARS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6/27/22	JC	REVISED ACP REINFORCING BARS			



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MIAMI-DADE COUNTY

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