


Date: March 1, 2023

To: Gary T. Hartfield, Division Director
Small Business Development Division
Internal Services Department

From: 
Alfredo E. Muñoz, P.E.
Chief, Capital Improvements Division
Department of Transportation and Public Works

Subject: Notice of Construction Project:
Miscellaneous Construction Contracts: MCC 7360 Plan – CICC
7360-0/08 - Request for Price Quotation (RPQ) No. 20220215
Bridge Repair at SW 57 Avenue – Bridge No. 874251

RECOMMENDATION

The Department’s Capital Improvements staff completed the review of the subject RPQ in accordance with the applicable provisions of Implementing Order 3-22 and recommends a Small Business Enterprise Construction (SBE-CONST) measure. A Community Workforce Program (CWP) goal, if applicable, is to be determined by Small Business Development.

Scope of Work:	Multiple Trade – Bridge Repair
Engineer Project Base Cost Estimate Including Contingency:	\$210,299.00
SBE-CONST Measure:	Not Measure
SBE-GS Measure:	Not Applicable
CWP:	As Applicable

SCOPE OF WORK

Work under this Contract includes furnishing of all supervision, labor, materials, tools, equipment and performing all operations required to construct the Work in accordance with the Contract Documents.

Work includes but is not limited to the following:

Rehabilitation work at SW 57 Avenue over Snapper Creek Canal Bridge No. 874251 is to include joint replacement, superstructure repairs, milling and resurfacing, signing, and pavement markings as shown in the Plans, and cleaning of the existing bridge deck drains.

The primary tasks to be completed by the Contractor are as follows:

1. Daily placing and removing maintenance of traffic devices when construction is in progress, including, but not limited to channelizing devices, construction/message signs and directional arrows.

2. Remove and replace the existing transverse joints at each bent/abutment and the existing longitudinal bridge joint. Joint replacement work requires sequencing/coordination with the milling and resurfacing of the asphalt overlay on the bridge and approach slabs. The following is an overview of the Plan requirements but should not be considered complete.
 - a. Remove the existing asphalt overlay for the bridge and approach slabs.
 - b. Resurface the bridge and approach slabs to match the existing asphalt overlay thickness.
 - c. Remove new asphalt overlay over top the joints for the limits of the new polymer joint nosing as shown in the Plans.
 - d. Prepare the deck concrete to receive the new polymer joint nosing.
 - e. Install galvanized self-drilling screws and galvanized wire mesh in the area of the polymer joint nosing as shown in the Plans.
 - f. Place polymer joint nosing.
 - g. Prepare the joint to receive the backer rod and poured joint material.
 - h. Install joint backer rod and poured joint material for the bridge riding surface, curbs, and sidewalks as shown in the Plans.
3. Construct new portions of bridge deck and new diaphragms in specified areas indicated in the plans. The following is an overview of the Plan requirements but should not be considered complete.
 - a. Sawcut and remove portions of the existing bridge deck at the locations and limits shown in the Plans taking care not to damage existing deck reinforcing.
 - b. Insert dowels and tie rebar for new deck portion and new diaphragm as shown in the plans.
 - c. Prepare existing concrete surfaces to receive the new concrete material.
 - d. Prepare rebar to receive the new concrete material.
 - e. Form and pour new deck portion and diaphragm.
4. Provide permanent signing and pavement markings as shown in the Plans.
5. Clean the existing bridge deck drains.
6. Perform all work at night as indicated in the Plans.
7. Review available information and visit the site to assess the issues to be corrected by this project and factors including but not limited to site geometry, equipment access conditions, and location of existing structures and above ground facilities. Any damage is the sole responsibility of the Contractor.

Should you require any additional information, please call me at (305) 375-4891.

Attachments (1)

AM/er

cc: Laurie Johnson, ISD/SBD
Jhonnatan Escalante, ISD/SBD
Elva Reyes, DTPW
Katherine Fernandez, DTPW
Daniel Viaud, DTPW
Project File

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
CONTRACT / PROJECT MEASURE ANALYSIS AND RECOMMENDATION

To: Gary T. Hartfield, Division Director
Small Business Development Division
Internal Services Department

From: Alfredo E. Munoz, P.E.
Chief, Capital Improvements Division
Department of Transportation and Public Works (DTPW)

Date: Monday, March 1, 2023

CONTRACT INFORMATION

Contract Type: MCC 7360 Plan: Multiple Trade –Bridge Repair

Request for Price Quotation (RPQ) No: 20220215

RPQ Title: Bridge Repair at SW 57 Avenue - Bridge No. 874251

Re-submittal: No

Prevailing Wages Rate Required: 23731-Highway Street and Bridge Construction

Estimated Base Project Cost Including Contingency: \$ 210,299.00

Funding Source: RFI Road Impact Fees

Bonding Requirements: Bid Bond– 5% of base bid amount
Performance Bond- 100% of Contract Award Amount

Method of Award: Line Item

PROJECT INFORMATION

Scope of Work

- A. Work under this Contract includes furnishing of all supervision, labor, materials, tools, equipment and performing all operations required to construct the Work in accordance with the Contract Documents.

Work includes but is not limited to the following:
Rehabilitation work at SW 57 Avenue over Snapper Creek Canal Bridge (874251) is to include joint replacement, superstructure repairs, milling and resurfacing, signing, and pavement markings as shown

RPQ No. 20220215
RPQ Title: Bridge Repair at SW 57 Avenue - Bridge No. 874251

in the Plans, and cleaning of the existing bridge deck drains.

The primary tasks to be completed by the Contractor are as follows:

1. Daily placing and removing maintenance of traffic devices when construction is in progress, including, but not limited to channelizing devices, construction/message signs and directional arrows.
2. Remove and replace the existing transverse joints at each bent/abutment and the existing longitudinal bridge joint. Joint replacement work requires sequencing/coordination with the milling and resurfacing of the asphalt overlay on the bridge and approach slabs. The following is an overview of the Plan requirements but should not be considered complete.
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 - b. Resurface the bridge and approach slabs to match the existing asphalt overlay thickness.
 - c. Remove new asphalt overlay over top the joints for the limits of the new polymer joint nosing as shown in the Plans.
 - d. Prepare the deck concrete to receive the new polymer joint nosing.
 - e. Install galvanized self-drilling screws and galvanized wire mesh in the area of the polymer joint nosing as shown in the Plans.
 - f. Place polymer joint nosing.
 - g. Prepare the joint to receive the backer rod and poured joint material.
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 - c. Prepare existing concrete surfaces to receive the new concrete material.
 - d. Prepare rebar to receive the new concrete material.
 - e. Form and pour new deck portion and diaphragm.
4. Provide permanent signing and pavement markings as shown in the Plans.
5. Clean the existing bridge deck drains.
6. Perform all work at night as indicated in the Plans.
7. Review available information and visit the site to assess the issues to be corrected by this project and factors including but not limited to site geometry, equipment access conditions, and location of existing structures and above ground facilities. Any damage is the sole responsibility of the Contractor.

Required Contractor's Certification:

At the time of Bid and pursuant to the requirements of Section 10-3 of the Code of Miami-Dade County, Florida and these Solicitation and Contract Documents, the Bidder must hold a valid, current, and active Certificate of Competency as a General Engineering Contractor or as a Specialty Engineering Contractor, commensurate to the requirements of the Project's Scope of Work, in one or more engineering crafts to include Structural Engineering. The Specialty Contractor shall subcontract with a qualified contractor any

work which is incidental to the specialty but is specified in the aforementioned Code as being the work of other than that of the Engineering Specialty for which certified; or

Pursuant to Section 255.20, Florida Statutes (F.S.) and in lieu of the above, the County may consider a bid from a Bidder that is a duly licensed Contractor in good standing that has been pre-qualified and considered eligible by the Florida Department of Transportation (FDOT) under Section 337.14, F.S. and Chapter 14-2, Florida Administrative Code, to perform the work described in the Contract Documents. Contractors seeking consideration under this paragraph shall submit along with the Bid Documents for review and consideration, current copy(ies) of their FDOT Certificate(s) of Qualification, Certification of Work Underway, and Status of Contract(s) On Hand. Acceptable FDOT prequalification(s) necessary to perform the work specified in the Project's Scope of Work shall include the Minor, or Major bridge Work Class.

Experience Requirement:

The Bidder must demonstrate that it has full-time personnel with the necessary experience to perform the Project's Scope of Work. This experience shall include work in successfully completed projects performed by the identified personnel whose bulk of work performed in the Public Right-of-Way is similar in detail to the Project's Scope of Work described in these Solicitation Documents. Demonstrate the experience requirement by:

Providing a detailed description of at least three (3) projects similar in detail to the Project's Scope of Work described in these Solicitation Documents and in which the Bidder's identified personnel is currently engaged or has completed within the past five years. List and describe the aforementioned projects and state whether the work was performed for the County, other government clients, or private entities. The description must identify for each project:

- A. The identified personnel and their assigned role and responsibilities for the listed project
- B. The client name and address including a contact person and phone number for reference
- C. Description of work
- D. Total dollar value of the contract
- E. Contract duration
- F. Statement or notation of whether Bidder's referenced personnel is/was employed by the prime contractor or subcontractor, and
- G. For completed projects, provide letters of certification of final acceptance or similar project closure documentation issued by the client and available Contractor's performance evaluations.

Additional Information: Permits, Licenses, Certifications, and General Regulations:

Permits that are issued by the Public Works Department, Miami-Dade County for construction within the public right-of-way, as well as additional permits, which may be required by other municipalities or agencies, including those required for tree removal, will be the responsibility of the Contractor.

RECOMMENDATION

Areas for Possible Measures: Not Applicable

Areas Recommended for SBE-construction Participation: Not Applicable

Contract Measure Recommendation:

- No Measure
- Set-Aside:
 - Level I
 - Level II
 - Level III
- Trade Set-Aside(s):
- Aggregate Set-Aside
- SBE-CONST Goal:
- SBE-GS Goal: Not applicable
- CWP: As Applicable.
- DBE Subcontractor Goal

Reason for Recommendation:

This is a multiple trade project; however, none of the primary trade related work can be subcontracted as per the Miscellaneous Construction Contract (MCC) specifications according to the scope of work. The bridge repairs require a structural or a general engineering firm with experience on bridge construction.

Comments:

This is a multiple trade work that requires a structural specialized firm in order to make the repairs.

Similar Projects previously submitted for Project Review and Analysis Process:

20220040-Matheson Hammocks Bridge Rehabilitation.

**ENGINEER'S TOTAL COST ESTIMATE FOR REPAIRS
SW 57TH AVENUE BRIDGE NO. 874251 OVER SNAPPER CREEK CANAL - BRIDGE REHABILITATION**

Existing Simple Span Prestressed Concrete Beams - Three Spans (40-40-40) = 120-ft Bridge (Rehabilitation)

PAY ITEM NO.	ITEM	UNIT	QUANTITY	UNIT COST	TOTAL COST
101-1-A	MOBILIZATION (ASSUME 15% OF REPAIR COSTS)	LS	1	-	\$22,941.70
102-1A	MAINTENANCE OF TRAFFIC (ASSUME 10% OF REPAIR COSTS)	LS	1	-	\$15,294.47
0102- 14	TRAFFIC CONTROL OFFICER	HR	540	\$55.03	\$29,716.20
0102- 60-	WORK ZONE SIGN	ED	800	\$0.23	\$184.00
0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	800	\$0.14	\$112.00
0102- 74- 2	BARRICADES (TEMPORARY - TYPES I, II, III, VP, DRUM, OR LCD)	ED	260	\$0.31	\$80.60
0102- 74- 6	CHANNELIZING DEVICE- PEDESTRIAN LCD (LONGITUDINAL CHANNELIZING DEVICE)	FD	120	\$0.30	\$36.00
0102- 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	128	\$10.27	\$1,314.56
0110- 3A	REMOVAL OF EXISTING STRUCTURES/BRIDGES	SF	35	\$6.74	\$235.94
327- 70- 01	MILLING, 1" AVERAGE DEPTH	SY	1,033.5	\$2.85	\$2,945.48
337- 8- 42	HMA, FRICTION COURSE, TRAFFIC C, FC-9.5 (1")	TN	57	\$172.23	\$9,782.66
0400- 2- 4	CLASS II CONCRETE, BRIDGE SUPERSTRUCTURE	CY	1.5	\$101.55	\$152.32
0415- 1- 4	REINFORCING STEEL - BRIDGE SUPERSTRUCTURE	LB	599	\$0.18	\$107.22
0458- 1- 11	BRIDGE DECK EXP JOINT (NEW CONSTRUCTION; F&I), POURED JOINT W/ BACKER ROD	LF	547	\$69.28	\$37,896.16
0458- 2	POLYMER NOSING FOR BRIDGE DECK EXPANSION JOINT	CF	90	\$736.67	\$66,300.30
0700- 40- 01	ROADSIDE SIGN, SINGLE POST, LESS THAN 12 S.F.	AS	3	\$481.86	\$1,445.58
0706- 1- 12	REFLECTIVE PAVEMENT MARKERS, CLASS B, MONO OR BI-DIRECTIONAL, ALL COLORS)	EA	68	\$4.00	\$272.00
0711- 11- 121	THERMOPLASTIC, WHITE, SOLID, 6"	LF	560	\$0.95	\$532.00
0711- 11- 124	THERMOPLASTIC, WHITE, SOLID, 18"	LF	168	\$4.65	\$781.20
0711- 11- 125	THERMOPLASTIC, WHITE, SOLID, 24"	LF	21	\$5.89	\$123.69
0711- 11- 170	THERMOPLASTIC, WHITE, ARROW	EA	4	\$80.03	\$320.12
0711- 11- 221	THERMOPLASTIC, YELLOW, SOLID, 6"	LF	491	\$0.96	\$471.36
0711- 11- 224	THERMOPLASTIC, YELLOW, SOLID, 18"	LF	30	\$4.51	\$135.30
ESTIMATED CONSTRUCTION COSTS					\$191,180.86
0102-10A	OFF-DUTY LAW ENFORCEMENT OFFICER (ASSUME 10% OF REPAIR COSTS)	LS	1	-	\$15,294.47
990-	ALLOWANCE PERMITS, DO NOT BID	LS	1	-	\$2,500.00
999-	CONTINGENCY FUND (10% OF REPAIR COSTS), DO NOT BID	LS	1	-	\$19,118.09
PROJECT GRAND TOTAL					\$228,093.41