

Date: March 20, 2014

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

From: Elva Rosa Reyes 
Engineer 2
Public Works and Waste Management Department

Subject: Notice of Construction Project:
Miscellaneous Construction Contract (MCC) Program: MCC
7360 Plan - CICC 7360-0/08
Request for Price Quotation (RPQ) No. 20140046
Larchmont Gardens Pump Station Retrofit Phases 1 & 2

RECOMMENDATION

Contracts and Specifications staff has evaluated the subject project and recommends 12% Community Small Business Enterprise (CSBE) Subcontractor Goal participation, based on construction trade area available to be subcontracted. The total estimated cost is \$3,573,278.50. The Public Works and Waste Management Department (PWWM) staff has checked the availability of CSBE firms and has attached the PWD Project Measure Analysis and Recommendation findings along with other supporting documents for your consideration. PWWM staff met with the Small Business Development's (SBD) Construction Manager in an effort to seek out additional opportunities for CSBEs. The Community Workforce Program (CWP) is applicable to this project. PWD received a response from the Geocode System which determined that the work location is in a Designated Target Area (DTA).

BACKGROUND

The Public Work and Waste Management Department (PWWM) is responsible for the construction, maintenance, repair and upgrade the Pump Stations throughout Miami-Dade Area and the installing Supervisory Control and Data Acquisition System (SCADA) providing all required electrical work in order to improve pumps operations. These improvements which have been tied into the existing Water and Sewer Department's rain gauges providing neighborhood level monitoring of rainfall. This streamlines the Department's response allowing for inspectors and maintenance personnel to be sent to the worst hit areas after a storm event. The Larchmont Gardens Stormwater Pump Station project is located in northwest central Miami-Dade County. The boundaries are NW 6th Ave. to the West, North Miami Ave. to the East, NW 82nd St. to the South, and New Little River Canal C-7 (NW 85th St.) to the North. This neighborhood consists of residential developments only. For design purposes this project was divided into two phases. However, both phases will be constructed under the same contract.

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RC Action
20140046

If any additional information is needed, please call me at (305) 375-1889, or Frank Aira at (305) 375-2930.

ER/er

Attachments (2)

CC: Laurie Johnson, ISD
Vivian Forhat-Diaz, ISD
Coralee Taylor, ISD
Bassam Moubayed, PWWM
Frank Aira, P.E., CFM, PWWM
Elva Rosa Reyes, PWWM
Lisset Cabrera, PWWM
Alejandro Barrios, PWWM
Daryl Hildoer, P.E. PWWM
Project File

Miami-Dade County
Public Works and Waste Management Department Input
Contract/Project Measure Analysis and Recommendation

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

From: Elva Rosa Reyes
Engineer 2
Public Works and Waste Management Department

Date: Thursday, March 20, 2014

Department: Public Works and Waste Management

Contract Type:

CICC 7360 - Single Trade

Request for Price Quotation (RPQ) No.:

20140046

Re-submittal: Yes; Previous Review Committee (RC) Submittal Dates

No

RPQ Title:

Larchmont Gardens Pump Station Retrofit Phases 1 & 2

Standard Industrial Code (SIC): 16-Building Construction Contractors

Estimated Project Cost:

\$3,573,278.50

Funding Source: General Obligation Bond (GOB) Program and
Stormwater Utility (SWU)

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

Method of Award: Apparent Lowest, Responsive, Responsible Bidder: Line Item

**Miami-Dade County
Public Works and Waste Management Department Input
Contract/Project Measure Analysis and Recommendation**

RPQ No.: 20140046

RPQ Title: Larchmont Gardens Pump Station Retrofit Phases 1 & 2

Detailed Scope of Work:

Work under this Contract includes furnishing of all supervision, labor, materials, equipment, tools and performing all necessary operations required to construct the Work in accordance with the Contract Documents. All types of engineering disciplines are required in order to conform all the needed improvements according to the Design Plans.

Phase 1: Consists of construction of a new stormwater pump station and its conveyance system. The new station will have a pumping capacity of 20 CFS which will be achieved by using two (2) electric submersible pumps of 10 CFS each. Additionally, this station will include an emergency diesel backup generator and a Supervisory Control and Data Acquisition System (SCADA) for remote monitoring and control of the pumps and generator. The new station will be at the intersection of NW 85th Street and NW 2nd Avenue.

Phase 2: Consists of complete demolition and reconstruction of the existing Larchmont Gardens Stormwater Pump Station. The reconstructed stormwater pump station will have a pumping capacity of 40 CFS which will be achieved by using two (2) electric submersible pumps of 20 CFS each. Additionally, this station will include an emergency diesel backup generator and a Control and Data Acquisition System (SCADA) for remote monitoring and control of the pumps and generator. The existing and reconstructed pump station is located at the intersection of NW 85 Street and NW 5 Avenue.

During the entire duration of construction the contractor has to provide and maintain the pumps necessary to continue the existing emergency pumping capabilities for the drainage system servicing the neighborhood that discharges into the C-7 canal.

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 from the County's Construction Trades Qualifying Board as a General Engineering Contractor or as a Specialty Engineering Contractor, commensurate to the requirements of the Scope of Work, in one or more engineering crafts to include structural engineering contractor. 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 prequalified 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 Pump Station Work Class.

Miami-Dade County
Public Works and Waste Management Department Input
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RPQ Title: Larchmont Gardens Pump Station Retrofit Phases 1 & 2

Experience Requirement:

The Bidder, through full time personnel employed by the Bidder, must demonstrate a minimum of five years of continual experience as the prime contractor in projects with scopes comparable to the Project Scope of Work. Demonstrate the experience requirement by including along with the bid submittal package.

A detailed description of projects, similar to the Project Scope of Work, in which the Bidder is currently engaged or has completed within the five years

- 1) List and describe those projects performed for government clients, similar size private entities, and any work performed for the County
- 2) Identify for each project a) the client, b) description of work, c) total dollar value of the contract, d) contract duration, e) customer contact person and phone number for reference, f) statement or notation of whether Bidder is/was the prime contractor or subcontractor, and g) the results of the project. For Miami-Dade County projects, just list the project number.

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.

PWWM Areas for possible contract measures:

Electrical
Mechanical
Fence Gate
Sodding

PWWM Areas recommended for CSBE participation: Electrical & Mechanical

Contract Measure Recommendation:

- No Measure
- CSBE Subcontractor Goal: 12%
 - 7% Electrical
 - 5% Mechanical
- CWP: Applicable, please see attached
- CSBE Set-Aside Level I Level II Level III

**Miami-Dade County
Public Works and Waste Management Department Input
Contract/Project Measure Analysis and Recommendation**

RPQ No.: 20140046

RPQ Title: Larchmont Gardens Pump Station Retrofit Phases 1 & 2

Reason for Recommendation:

This is a single trade project; none of the primary trade related work (Drainage Structures and Pipes) can be subcontracted as per the Miscellaneous Construction Contract (MCC) specifications. Additionally, staff has met with the design engineer, construction project manager, and members of the industry and concluded that there is ancillary work required to complete this project which may be subcontracted. This type of specialized work is associated with a limited number of licensed small business enterprise firms that are prime contractors. Also, this type of work is highly specialized and requires special equipment that is typically owned and/or leased by the contractor.

Comments:

In accordance with the Miami-Dade County Code (The Code), PWWM attached its Project Measure Analysis and Recommendation findings along with other supporting documents for consideration of small business participation. PWWM staff met with the Small Business Development's (SBD) Construction Manager in an effort to seek out additional opportunities for CSBEs. The Community Workforce Program (CWP) is applicable to this project. PWD received a response from the Geocode System which determined that the work location is in a Designated Target Area (DTA).

Contracts and Specifications staff completed its review of the scope of work for the subject RPQ. Based on the analysis of factors contained in Section VI D of Implementing Order 3-22, Public Works and Waste Management (PWWM) suggest a 12% contract goal recommendation.

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**Miami-Dade County
Public Works and Waste Management Department Input
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RPQ No.: 20140046

RPQ Title: Larchmont Gardens Pump Station Retrofit Phases 1 & 2

CSBE Prime History of similar Contracts/Projects for previous three years:

None

Scope of Work History Summary – Subcontracting Opportunities:

Areas recommended for CSBE Goal (PWWM/SBD):

Electrical
Mechanical

Similar Projects previously submitted for Review and Analysis Process:

None

CSBE Goal/Amount achieved:

PWW would have to confirm with the Compliance Monitor.

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DEPARTMENT INPUT
CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

Check applicable Ordinance(s): 90-143 Responsible Wage and Benefits 03-237 (formerly 03-1) Community Workforce Program

PROJECT INFORMATION See attachment

Contract/Project/*Work Order No.: **20140046**

*Reference corresponding project number when submitting a work order

Contract/Project Title: **Larchmont Gardens Pump Station Retrofit Phases 1 & 2**

Description/Scope of Work: **See Attached**

Estimated Cost: **3573278** Funding Source: **Other (specify)**

Location of Project (street address or beginning and ending points) i.e. 12345 NE 23rd Ct or Starts at 135 St. ends at 145 St.
Please see attached

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP) See attachment

Engineer/Department or Agency's estimated required workforce for Project Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
Supervisor	1	210
Foreman	1	210
Operator	1	210

Comments: Please note the estimated number of days to complete the job may not be equal to actual amount of days indicated above. In addition, estimated number of workers for each trade are utilized throughout the duration of the contract.

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
	\$	%	
	\$	%	
	\$	%	

RECOMMENDATION

Set-Aside: Level 1 Level 2 Level 3 Trade Set-Aside Sub-Contractor Goal Workforce Goal No Measure

Basis for Recommendation: This Project has an identifiable area for subcontracting; types of opportunities provided are appropriate for applying a subcontractor goal and effective competition appears to exist for setting a CSBE Subcontractor Goal within SIC 17. In addition, Geocode suggest the work location is located within a Designated Target Area (DTA). Therefore, the Community Workforce Program (CWP) is applicable.

Date submitted to DBD: **03-20-14**

Contact Person: **Elva R. Reyes or Frank Aira**

Telephone No.: **305-375-2930**

DEPARTMENT INPUT
CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

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Please see attached

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP) See attachment

Engineer/Department or Agency's estimated required workforce for Project Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
Clearing & Grubbing	4	210
Drainage Structures and Pipes	4	210
Sodding	1	210

Comments: Please note the estimated number of days to complete the job may not be equal to actual amount of days indicated above. In addition, estimated number of workers for each trade are utilized throughout the duration of the contract.

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

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	\$	%	
	\$	%	
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PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP) See attachment

Engineer/Department or Agency's estimated required workforce for Project Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
Asphalt & Concrete	4	210
Electrical Construction Operations	4	210
Mechanical Operations	4	210

Comments: Please note the estimated number of days to complete the job may not be equal to actual amount of days indicated above. In addition, estimated number of workers for each trade are utilized throughout the duration of the contract.

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
	\$	%	
	\$	%	
	\$	%	

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Telephone No.: 305-375-2930

CONTRACT No. 20140046		CONTRACT AMOUNT: \$ 3,573,278.50			
Item No.	Description	Unit	Total Quantity	Unit Price	Total Price
CLEARING CONSTRUCTION SITES					
104-10	Clearing and grubbing	T.S.	1	\$ 35,000.00	\$ 35,000.00
420-05-1	Drilling Inlet Structures	E.A.	4	\$ 320.00	\$ 1,280.00
430-041-23	Drilling Pipes	L.F.	100	\$ 6.00	\$ 600.00
MAINTENANCE OF TRAFFIC DEVICES					
102-74-1	Barricades (Temporary - Types I, H, VP and Drum)	E.A/day	2380	\$ 0.60	\$ 4,380.00
102-76A	Advance Warning Arrow Panel	E.A/day	3660	\$ 5.10	\$ 19,560.00
PAVEMENT MARKINGS & SIGNAGE					
713-11-220	Thermoplastic (White) (Solid) (9")	L.F.	120	\$ 0.80	\$ 96.00
713-11-221	Thermoplastic (Yellow) (Solid) (6")	L.F.	120	\$ 0.80	\$ 96.00
713-11-222	Thermoplastic (White) (Solid) (12")	L.F.	120	\$ 1.50	\$ 180.00
CONTROL OF EROSION & WATER POLLUTION					
104-10-3	Siltment Barrier	L.F.	600	\$ 2.00	\$ 1,200.00
104-11A	Turbidity Barrier	L.F.	600	\$ 11.00	\$ 6,600.00
104-18	Inlet Protection System	E.A.	4	\$ 40.00	\$ 160.00
120-4	Subsoil Excavation	C.Y.	0	\$ 6.56	\$ -
104-6-2	Timberloam (Borrow material from the contractor's own source, includes grading)	C.Y.	80	\$ 22.00	\$ 1,760.00
ASPHALT & CONCRETE					
327-7-01	Milling Existing Asphalt Pavement (up to 5,000 square yards) (1" average depth)	S.Y.	2013	\$ 2.50	\$ 5,032.50
311-72-10A-HMA	Roadway Pavement Restoration (Replace and match existing base thickness and asphalt course with 8" minimum, primed Limerock Base and 1" thick of HMA, Asphalt Work Category 3)	S.Y.	2013	\$ 24.00	\$ 48,312.00
311-72-10B-HMA	Inlet Pavement (Includes 6" Limerock Base and 1" thick of HMA, Asphalt Work Category 2)	S.Y.	44	\$ 23.00	\$ 1,012.00
334-2-13	Hot Mix Asphalt, Traffic C	Ton	123	\$ 130.00	\$ 15,990.00
324-2-13-1A	Driveway Pavement - Asphalt	S.Y.	111	\$ 20.00	\$ 2,220.00
350-1-1A	Driveway Pavement - Concrete	S.Y.	111	\$ 40.00	\$ 4,440.00
DRAINAGE STRUCTURES & PIPES					
423-2-41	Manhole Type P-TT (Any dimension) (Max. 19" Deep)	E.A.	8	\$ 1,800.00	\$ 14,400.00
423-2-71	Manhole Type 2-TT (Any dimension) (Max. 19" Deep)	E.A.	22	\$ 2,600.00	\$ 57,200.00
423-2-11	Manhole Type USP 3-27.1 (36" DIA) (Max. 15" Deep)	E.A.	0	\$ 1,637.50	\$ -
423-4-R2A	Function Box, Drainage, Special, > 10" Valve Box (Concrete)	EA	4	\$ 8,000.00	\$ 32,000.00
425-31	Pollution Control Structure (Two Chambers with Weir or Baffle) (Any Dimension) (Max. 15" Deep)	E.A.	2	\$ 8,000.00	\$ 16,000.00
425-001	Energy Dissipating Outfall (Complete with Canal Bank Stabilization)	E.A.	2	\$ 30,000.00	\$ 60,000.00
430-1-120A	Steel Box Culvert Weir Structure	E.A.	2	\$ 2,000.00	\$ 4,000.00
425-79	Cure and Tie to exist, discharge structure. (Any pipe size hole opening) (Including minor seal) (This item is contingent upon field conditions and may increase/decrease or eliminated by the Engineer)	E.A.	2	\$ 500.00	\$ 1,000.00
420-171-120	Pipe Culvert - 24" Diameter	L.F.	698	\$ 48.00	\$ 33,504.00
430-30	Pipe Culvert - 30" Diameter	L.F.	0	\$ 43.38	\$ -
430-36	Pipe Culvert - 36" Diameter	L.F.	553	\$ 52.00	\$ 28,756.00
430-42	Pipe Culvert - 42" Diameter	L.F.	0	\$ 56.88	\$ -
430-48	Pipe Culvert - 48" Diameter	L.F.	444	\$ 56.88	\$ 25,254.72
431-24	24" SLURRY GATE (Complete, including assembly, manual actuator, and mechanical HD) (Watch Technologies or approved equal)	E.A.	1	\$ 4,000.00	\$ 4,000.00
430-19-18	Ductile Iron Pipe and Fittings, 18" Diameter	L.F.	40	\$ 60.00	\$ 2,400.00
430-19-24	Ductile Iron Pipe and Fittings, 24" Diameter	L.F.	700	\$ 80.00	\$ 56,000.00
446-18-45	18" DIP - 45 DEGREE BEND	E.A.	2	\$ 3,000.00	\$ 6,000.00
446-18-90	18" DIP - 90 DEGREE BEND	E.A.	6	\$ 3,000.00	\$ 18,000.00
446-24-45A	24" DIP - 45 DEGREE BEND	E.A.	4	\$ 4,000.00	\$ 16,000.00
446-24-1824	DIP 18" X 24" Elongate	E.A.	2	\$ 4,000.00	\$ 8,000.00
446-24-1824Y	DIP 18" X 24" WYE Branch	E.A.	2	\$ 3,500.00	\$ 7,000.00
448-73-20	Pump Station 1 & 2 (Includes, but not limited to, excavation, assembly, concrete, steel reinforcement, pumps, pump control panel, pipes, fittings, trash rack, manual three gate, RTU controlled sluice gate, ultra sonic transmitter, pressure transducer, all electrical conduit with wire, all miscellaneous items, appurtenances, materials, and labor necessary for a complete and functional pump station)	L.S.	1	\$ 1,954,000.00	\$ 1,954,000.00
1070-113-216	Valve Assembly - 24" Check Valves (C.I.)	EA	4	\$ 6,000.00	\$ 24,000.00
1070-114-216	Valve Assembly 24" Flg Valve (C.I.)	EA	4	\$ 16,000.00	\$ 64,000.00
GUARDRAIL & FENCE					
550-5	RELOCATE EXISTING FENCE	L.F.	200	\$ 10.00	\$ 2,000.00
550-8-7	6 High Chain Link Fence	S.Y.	333	\$ 18.00	\$ 5,994.00
550-60-111	Fence Gate, Type A, Single, 0-6' Opening	E.A.	2	\$ 750.00	\$ 1,500.00
550-60-233	Fence Gate - Type B, Sliding/Cantilever, 12'-18" Opening	EA	2	\$ 1,000.00	\$ 2,000.00
GENERAL CONSTRUCTION OPERATIONS					
210-3D	Building Demolition	L.S.	3	\$ 100,000.00	\$ 300,000.00
121-70-3	Flowable Fill	C.Y.	20	\$ 125.00	\$ 2,500.00
401-1-15	Class I Concrete (miscellaneous, pipe, culvert, plugs, etc.)	C.Y.	10	\$ 133.00	\$ 1,330.00
504-72A	Emergency Generator with ATS and Fuel Tank (Full)	ASSM.	2	\$ 80,000.00	\$ 160,000.00
524-1(1)	Concrete Sidewalk (6" thick) (Tess Pavement, 3000 P.S.I.) (including pedestrian ramps and sidewalk curbs)	S.Y.	100	\$ 27.00	\$ 2,700.00
523-2	Concrete Driveway Restoration (6" thick, Class I Concrete, 3000 P.S.I. at 28 days, includes sidewalks and driveway approach)	S.Y.	40	\$ 37.40	\$ 1,496.00
523-2	Detectable Warning on Walking Surface	S.F.	40	\$ 45.00	\$ 1,800.00
509-1-021	Electric Power Service (EPT)	L.S.	1	\$ 125,000.00	\$ 125,000.00
685-118B	Telemetry System	L.S.	1	\$ 100,000.00	\$ 100,000.00
SODDING & TREE REMOVAL					
575-2A	Sodding - St Augustine, or match existing, (includes watering and maintenance, Existing item based on field conditions, may be increased, or decreased by the engineer.	S.Y.	4256	\$ 4.00	\$ 17,024.00
BASE ESTIMATE					
					\$ 3,077,437.63
CONTINGENCY					
601-1	Contingency Fund	L.S.	1	\$ 307,723.76	\$ 307,723.76
SUBTOTAL					
					\$ 3,385,161.39
ALLOWANCES					
102-1	Maintenance of traffic	L.S.	1	\$ 61,544.75	\$ 61,544.75
102-10A	Off-duty Law Enforcement Officer	L.S.	1	\$ 96,000.00	\$ 96,000.00
990	Allowance-Permits	L.S.	1	\$ 30,772.38	\$ 30,772.38
TOTAL					\$ 3,573,278.50

CONTRACT No. 20140046

Sub-Trade	Est. Cost	% of Item to Base Bid	% of Total	Subs Available
Clearing Construction Sites	\$ 36,880	1	1	
Maintenance of Traffic Devices	\$ 23,944	1	1	
Pavement Markings & Signage	\$ 372	0	0	
Control of Erosion & Water Pollution	\$ 9,918	0	0	
Asphalt & Concrete	\$ 76,877	2	2	
Drainage Structures & Pipes	\$ 2,405,863	78	67	
Guardrail & Fences	\$ 11,494	0	0	
General Construction Operations	\$ 494,866	16	14	
Sodding & Tree Removal	\$ 17,024	1	0	
Contingency	\$ 307,724	-	9	
Allowances	\$ 188,317	-	5	
Total	\$ 3,573,278	100	100	

