

Date: April 14, 2014

To: Lester Sola, Director
Internal Services Department
Small Business Development Division

From: Alicia Arce, E.I.
Engineer 2
Public Works and Waste Management
Department

Subject: Notice of Construction Project:
Project No. 20140056
Roadway Resurfacing Contract

RECOMMENDATION

Departmental Contracts Measure Recommendation: Trade Set Aside for Traffic Stripes and Markings: Painted and/or Thermoplastic.

Engineer's Opinion of Probable Costs: \$2,000,000.00

Community Workforce Program (CWP):

Project Locations: Multiple Sites.

Reviewed by Small Business Development Target (SBD) Construction Manager: Yes

BACKGROUND

Asphalt Surfaces have atypical service life of 8 to 12 years, depending on the traffic and weather conditions. Asphalt resurfacing is necessary when the asphalt surface has reached the end of its service life or if other methods of restoration cannot repair the roadway. Asphalt resurfacing is a multistep process that usually involves several work crews, accompanied by proper construction signs and work-zone traffic control measures to maintain public safety.

If any additional information is needed, please call me at (305) 375-1363, or Frank Aira at (305) 375-2930.

Attachments (2)

AA/aa

cc: Laurie Johnson, ISD
Coralee Taylor, ISD
Vivian Forhat-Diaz, ISD
Lisset Cabrera, PWWM

Bassam Moubayed, PWWM
Joaquin Rabassa, P.E., PWWM
Frank Aira, P.E., CFM, PWWM
Project File

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.: **20140056**
 *Reference corresponding project number when submitting a work order

Contract/Project Title: **Roadway Resurfacing Contract**

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

Estimated Cost: **2,000,000.00** **Funding Source:** **GOB**

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.
Various Locations.

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	2	450
Foremen	2	450
Operator	1	450

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, respective employees utilized for various scopes of work throughout the duration of the contract.

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
Paving Markings	\$ 184,168.48	% 9.20	
Concrete	\$ 117,342	% 5.87	
	\$	%	

RECOMMENDATION

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

Basis for Recommendation: **PWWM suggests the following contract measure recommendation : TRADE Set-Aside : Traffic Stripes and Markings : Painted and/or Thermoplastic and Concrete: Sidewalk and/or Curb and Gutter, including American with Disabilities (ADA) items. CSBE availability and Geocode revealed construction work to be performed is not within a Designated Target Area (DTA)**

Date submitted to DBD: **4-14-2014**
Contact Person: **Alicia Arce or Frank Aira**
Telephone No.: **305-375-1363**

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

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Contract/Project/*Work Order No.: 20140056
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Contract/Project Title: Roadway Resurfacing Contract

Description/Scope of Work: See Attached

Estimated Cost: 2,000,000.00 **Funding Source:** Roadway Resurfacing Contract

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.
Various, 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
Laborers	6	450

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, respective employees utilized for various scopes of work 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: CSBE availability and Geocode revealed construction work to be performed is not within a Designated Target Area (DTA)

Date submitted to DBD: 04-14-2014

Contact Person: Alicia Arce or Frank Aira
Telephone No.: 305-375-1363

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

To: Lester Sola, Director
Internal Services Department
Small Business Development Division

From: Alicia Arce
Engineer II
Public Works and Waste
Management Department

Date: Monday, April 14 2014

Department: Public Works and Waste Management

Contract Type: Roadway Resurfacing

Single Trade-Roadway Improvements

Request for Price Quotation (RPQ) No.: 20140056

Re-submittal: Yes; Previous Review Committee (RC) Submittal Dates
 No

Project Title: People's Transportation Plan (PTP) Roadway Resurfacing

Standard Industrial Code (SIC): 16-Highway and Street Construction

Estimated Project Cost: \$2,000,000.00

Funding Source: GOB

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

Method of Award: Line Item

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

RPQ No.: 20140056

RPQ Title: Roadway Resurfacing Contract

Detailed 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: Milling and resurfacing, widening and resurfacing of intersecting streets up to the existing joint at the side street, or up to the Point of Curvature (PC) as determined by the Engineer, and/or as indicated on the Plans, resurfacing of asphaltic pathways (pedestrian, bicycle, etc.) adjacent or not to the edge of pavement as necessary, temporary utility repairs (cold patches), clearing and excavating of shoulder areas or build-up, as directed by the Engineer; grading and clean-up of adjacent shoulders and removal of roots, as required, pavement markings including the installation of reflective pavement markers (blue/blue) at fire hydrant locations, sidewalk, sidewalk cubs and connectors, and pedestrian ramps.

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 Paving 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.

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 Flexible Paving Work Class.

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.**

County Road Construction Projects – NO PERMITS issued to sub-contractors. Except work related to Traffic Signalization, School Flashing Signals, Internally Illuminated Street Name Sign (IISNS), Street lighting, and Traffic Signal Loops which will require a separate permit issued to an Electrical Contractor to perform such work.

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

RPQ No.: 20140056

RPQ Title: Roadway Resurfacing Contract

Pavement Markings and Signage

The work under pavement markings and signage (Thermoplastic traffic stripes and Markings) consists of placing traffic stripes and markings using a material of the type that is extruded onto the pavement surface in a molten state by mechanical means, with surface application of glass spheres. Upon cooling to normal pavement temperature these materials shall produce an adherent reflectorized pavement marking of specified thickness and width and be capable of resisting deformation by traffic.

PWD Areas for possible measures:

Pavement Marking and Signage and Concrete Work

PWD Areas recommended for CSBE Subcontractor Goal:

Pavement Marking and Signage and Concrete Work

Contract Measure Recommendation:

- No Measure
- Set-Aside:
 - Level I Level II Level III
- Trade Set-Aside(s):
 - Traffic Stripes and Markings: Painted and/or Thermoplastic
 - Concrete: Sidewalk and/or Curb and Gutter, including American with Disabilities (ADA) items.
- Aggregate Set-Aside
- CSBE Subcontractor Goal
- CWP: A few Work Order locations are located in a DTA
 - Page 1 through 2 of 10
- DBE Subcontractor Goal

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

RPQ No.: 20140056

RPQ Title: Roadway Resurfacing Contract

Reason for Recommendation:

This is a single trade project; none of the primary trade related work 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. Ancillary work includes all categories listed under "Areas for possible measures." All areas to be subcontracted require special licenses and/or certifications. Also, some categories of work are highly specialized and require special, heavy machinery and/or equipment that are typically owned and/or leased by the contractor.

This is a Work Order generated project for which estimated quantities are established for line items utilized during construction instead of estimated dollar amounts. The aforementioned ancillary work may be minimal for each work order and may or may not be required on all work order locations identified during Contract duration.

Comments:

The work orders for the contract have identifiable opportunities for a Trade Set-Aside. The types of opportunities provided are appropriate for applying a Trade Set-Aside; and, effective competition exists in that three or more CSBEs appear to be available to perform in the recommended specialty trade area within SIC 17. The awarded Contractor and SBD shall verify with the user department the scope of work, dollar value and percentage of work achieved for CSBE participation on each Work Order upon expiration of the Contract.

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

None

Scope of Work History Summary – Subcontracting Opportunities:

Areas recommended for CSBE Goal (PWD/SBD):

Not Applicable

Areas used to meet subcontractor goal (Awarded Contractor):

Not Applicable

Similar Projects previously submitted for RC Action:

20140055

CSBE Goal / Project No. / Amount achieved:

Trade Set-Aside / 20140055

20140056

Contracts and Specs Project Engineer
Alcala Arce

ITEM #	DESCRIPTION	UNIT	Engineer Estimate		
			Unit Price	Qty	
				Amount	
1WSR	SAW CUT EXIST. TRENCH & REM. EXIST. COLD PATCH	S.F.	\$4.00	11,907	\$47,628.00
2WSR	REPLACEMENT OF BASE & COLD PATCH (6") & 6" ASPHALT	S.F.	\$6.50	962	\$6,253.00
6WS/A	NIGHT DIFFERENTIAL FOR MILLING	P.N.	\$750.00	11	\$8,250.00
6WS1-A	NIGHT DIFFERENTIAL FOR RESURFACING	P.N.	\$750.00	11	\$8,250.00
101-327A	MOBILIZATION FOR MILLING	PERSEC	\$700.00	16	\$11,200.00
102-74-2	BARRICADES (Temporary, Type III, E)	EADAY	\$0.65	25	\$16.25
102-76	FLASHING ARROW BOARD (Temporary)	EADAY	\$20.00	28	\$580.00
102-8A	RE-GRADE EXISTING SWALE (without sod)	S.Y.	\$5.00	132	\$660.00
102-60A	WORK ZONE SIGNS	EADAY	\$1.00	368	\$368.00
102-69	VARIABLE MESSAGE SIGN (TEMPORARY)	EADAY	\$14.00	102	\$1,428.00
110-4-1-1	REMOVAL AND DISPOSAL OF EXISTING CURB & GUTTER	L.F.	\$10.00	1,786	\$17,860.00
110-4-2A	REMOVAL OF EXISTING CONCRETE SIDEWALK (up to 6" thick, including base preparation)	S.Y.	\$15.00	993	\$14,895.00
110-4	REMOVAL EXISTING PAVEMENT	S.Y.	\$3.00	27	\$81.00
120-1	REGULAR EXCAVATION	C.Y.	\$6.00	1,346	\$8,076.00
120-2-3	EMBANKMENT FOR ROAD BUILD-UP	C.Y.	\$6.00	1,122	\$7,293.00
120-2-4	EMBANKMENT MATERIAL FOR SHOULDER	C.Y.	\$6.50	224	\$1,458.00
160-4	TYPE "B" STABILIZATION (12" Thick)	S.Y.	\$10.00	1,795	\$17,950.00
200-2	BASE PREPARATION FOR NEW SIDEWALK CONSTRUCTION (Where needed at the discretion of the Engineer)	S.Y.	\$15.00	397	\$5,955.00
210-1-2	LINEROCK BASE (6" double coarse gravel)	S.Y.	\$15.00	1,795	\$26,925.00
327-70	MILLING EXISTING PAVEMENT (1")	S.Y.	\$2.50	122,498	\$306,245.00
334-2-13-1	HOT MIX ASPHALT, TRAFFIC C, SP-9.5	TON	\$96.00	7,085	\$720,575.00
337-4-42	W MIX ASPHALT FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76	TON	\$105.00	1,876	\$196,880.00
425-4(2)	ADJUSTING INLETS	EA	\$150.00	7	\$1,050.00
425-5	ADJUST MANHOLE	EA	\$300.00	48	\$14,700.00
425-6	ADJUST EXISTING VALVES BOXES	EA	\$175.00	80	\$14,000.00
425-721E	Removal, disposal & pick up new frames at MDWS & install MH	EA	\$350.00	3	\$1,050.00
425-721F	Remov, disposal & pick up new at MDWS & install Water Valves	EA	\$225.00	3	\$675.00
425-944B	RECONSTRUCT MANHOLE	EA	\$300.00	3	\$900.00
520-2A	CONCRETE CURB AND GUTTER (Any type, including base preparation)	L.F.	\$18.00	3,268	\$58,824.00
522-1(1)	CONCRETE SIDEWALK (4" Thick, 3,000 PSI Concrete at 28 days/Includes the cost of pedestrian ramps and sidewalk curbs)	S.Y.	\$28.00	1,721	\$48,188.00
522-2	CONCRETE SIDEWALK (6" Thick, 3,000 PSI Concrete at 28 days/Includes the cost of pedestrian ramps and sidewalk curbs)	S.Y.	\$35.00	298	\$10,430.00
527-2	DETECTABLE WARNING ON WALKING SURFACE	S.F.	\$30.00	1,522	\$45,660.00
575-1-1	SODDING (PENSACOLA BAHIA OR MATCH EX)	S.Y.	\$3.50	27	\$94.50
635-1-11	PULL BOX, METER TYPE (POLYMER)	AS	\$450.00	5	\$2,250.00
700-40-01	ROADSIDE SIGNS (single post) (less than 12 S.F.)	AS	\$350.00	5	\$1,750.00
700-46-22	RESET EXISTING POST AND SIGN	EA	\$50.00	7	\$350.00
705-71-35(1)	30" TUBULAR DELINEATOR	EA	\$48.00	27	\$1,296.00
706-1-12	REFLECTIVE PAVEMENT MARKERS (month-direct all colors)	EA	\$4.00	3,251	\$13,004.00
710-11-121	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	L.F.	\$0.18	47,830	\$8,609.33
710-11-122	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 8"	L.F.	\$0.24	439	\$105.34
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	L.F.	\$0.35	5,685	\$2,046.74
710-11-124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 16"	L.F.	\$0.64	802	\$432.81
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	L.F.	\$0.72	1,943	\$1,399.10
710-11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 6" 10-30 or 3-9 SKIP	L.F.	\$0.20	3,773	\$754.60
710-11-241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	L.F.	\$0.20	2,911	\$582.12
710-11-160	PAINTED PAVEMENT MARKINGS, STANDARD, MESSAGE	EA	\$40.00	24	\$952.00
710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, ARROWS	EA	\$26.00	48	\$1,207.50
710-11-221	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	L.F.	\$0.18	23,377	\$4,207.77
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 16"	L.F.	\$0.64	2,915	\$1,873.99
710-26-41A	SOLID TRAFFIC STRIPE PAINT (4" WHITE OR YELLOW)	L.F.	\$0.15	7,048	\$1,057.14
711-11-121	THERMOPLASTIC STANDARD, WHITE, SOLID, 6"	L.F.	\$0.60	47,830	\$28,697.76
711-11-122	THERMOPLASTIC STANDARD, WHITE, SOLID, 8"	L.F.	\$0.80	439	\$351.12
711-11-123	THERMOPLASTIC STANDARD, WHITE, SOLID, 12"	L.F.	\$1.20	5,685	\$6,822.48
711-11-124	THERMOPLASTIC STANDARD, WHITE, SOLID, 16"	L.F.	\$1.60	802	\$1,283.20
711-11-125	THERMOPLASTIC STANDARD, WHITE, SOLID, 24"	L.F.	\$2.40	1,943	\$4,663.68
711-11-141	THERMOPLASTIC STANDARD, WHITE, SKIP, 6" 10-30 OR 3-9 LANE DROP	L.F.	\$0.80	3,777	\$3,021.60
711-11-160	THERMOPLASTIC STANDARD, WHITE, MESSAGE	EA	\$105.00	24	\$2,490.00
711-11-170	THERMOPLASTIC STANDARD, WHITE, ARROWS	EA	\$55.00	51	\$2,805.00
711-11-221	THERMOPLASTIC STANDARD, YELLOW, SOLID, 6"	L.F.	\$0.60	23,376	\$14,025.48
711-11-224	THERMOPLASTIC STANDARD, YELLOW, SOLID, 16"	L.F.	\$1.60	2,915	\$4,664.00
711-11-241	THERMOPLASTIC STANDARD, YELLOW, SKIP, 6" 10-30 SKIP OR 3-9 LANE DROP	L.F.	\$0.90	2,911	\$2,620.17
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	\$250.00	28	\$7,000.00
711-2	SKIP TRAFFIC STRIPE (8" STRIPE, 10 SPACES) WHITE THERMOPLASTIC (6" WIDE)	L.F.	\$1.00	71	\$71.00
711-2A	SKIP TRAFFIC STRIPE (4" WHITE/ELL 6" x 10') THERMO	L.F.	\$0.60	19	\$11.40
711-33-34	SKIP TRAFFIC STRIPE (4" WHITE/ELL 10' x 30') THERMO	L.F.	\$0.60	4,236	\$2,541.60
711-35-41	SOLID TRAFFIC STRIPE (4" WHITE) THERMO	L.F.	\$0.60	2,306	\$1,383.60
711-36-41	SOLID TRAFFIC STRIPE (4" YELLOW) THERMO	L.F.	\$0.50	489	\$244.50
711-5	GUIDELINES (6" 2' x 4') WHI THERMO	L.F.	\$1.00	88	\$88.00
711-72	REMOVE EXISTING PAVEMENT MARKINGS	S.F.	\$2.00	272	\$544.00
					\$1,730,789.84
999-02	CONTINGENCY ALLOWANCE (10% BASE ESTIMATE)	L.S.	\$169,035.42	1	\$173,078.99
102-10A	OFF-DUTY LAW ENFORCEMENT OFFICER	L.S.	\$25,000.00	1	\$40,000.00
102-1P	MAINTENANCE OF TRAFFIC	L.S.	\$33,807.26	1	\$34,615.80
900-1-999	BITUMINOUS MATERIAL ADJUSTMENT	L.S.	\$20,000.00	1	\$20,000.00
990	ALLOWANCE PERMITS	L.S.	\$395.80	1	\$1,515.37
					\$2,000,000.00

APPENDIX "C"
LOCATION OF WORK

The location(s) of the Work to be performed under the terms of this Contract are:

1-SW 112 Street to SW 120 Street & SW 92 Ave to SW 97 Ave

2-SW 104 Street to SW 120 Street & SW 117 Ave to SW 127 Ave

3-SW 112 Street to SW 120 Street & SW 102 Ave to SW 107 Ave