

Date: February 15, 2017

To: Gary Hartfield, Division Director
Internal Service Department
Small Business Development Division

From: Alejandro Martinez-Esteve, RA, LEED AP Manager, Capital
Improvements Section
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.20170025
Intersection Improvements Contract (Push Button–North)

RECOMMENDATION

Departmental Contracts Measure Recommendation: Trade Set Aside for Traffic Stripes and Markings: Painted and/or Thermoplastic and Concrete; sidewalk and /or curb and gutter.

Engineer's Opinion of Probable Costs: \$1,294,089.91

Community Workforce Program (CWP): 10%

Project Locations: Various Locations

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

BACKGROUND

Asphalt Surfaces have a typical 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) 375-5320, or Alicia Arce at (305) 375-2930.

Attachments (2)

AA/aa

cc:	Laurie Johnson, ISD	Bassam Moubayed, DTPW
	Eddy Etienne, ISD	Joaquin Rabassa, P.E., DTPW
	Marcia Martin, ISD	Alicia Arce, DTPW
	Dianah Coakley, DTPW	Project File

**Department of Transportation and Public Works Input
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.: 20170025

*Reference corresponding project number when submitting a work order

Contract/Project Title: Intersection Improvements Contract (Push Button-North)

Description/Scope of Work: See Attached

Estimated Cost: 1,294,089.91 Funding Source: RIF

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	540
Foremen	2	540
Operator	1	540

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	\$ 65,193.00	% 6	
Concrete	\$ 194,900.00	% 17	
	\$	%	

RECOMMENDATION

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

Basis for Recommendation: DTPW 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 within a Designated Target Area (DTA)

Date submitted to DBD: 2-15-2017

Contact Person: Alicia Arce or Alejandro Martinez-Estevez

Telephone No.: 305-375-1363

**Department of Transportation and Public Works Input
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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Description/Scope of Work: See Attached

Estimated Cost: \$1, 294,089.91 **Funding Source:** RIF

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	540

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 within a Designated Target Area (DTA)

Date submitted to DBD: 2-15-17

Contact Person: Alicia Arce or Alejandro Martinez-Estevez

Telephone No.: 305-375-1363

**Department of Transportation and Public Works Input
Contract/Project Measure Analysis and Recommendation**

To: Gary Hartfield, Division Director
Internal Service Department
Small Business Development Division

From: Alicia Arce
Engineer II
Department of Transportation and Public Works

Date: Wednesday, February 15, 2017

Department: Department of Transportation and Public Works

Contract Type: Intersection Improvements

Single Trade-Roadway Improvements

Request for Price Quotation (RPQ) No.: 20170025

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

Project Title: Intersection Improvements Contract (Push Button-North)

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

Estimated Project Cost: \$1,294,089.91

Funding Source: RIF

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

Method of Award: Line Item

**Department of Transportation and Public Works Input
Contract/Project Measure Analysis and Recommendation**

RPQ No.: 20170025

RPQ Title: Intersection Improvements Contract (Push Button-North)

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.

- A. Work under this Contract includes furnishing of all supervision, labor, materials, tools, equipment and performing all operations necessary for Intersection Improvements.
- B. Work includes but is not limited to, the following: Construction of Asphaltic Concrete Road base and surface; pavement removal; pavement milling; pavement markings; signage; drainage; sidewalks; concrete curb and gutter; and traffic calming devices. Incidental items required for areas such as street light, traffic signal installation, etc. may be added to this Contract.
- C. If any changes are required due to conflict of design and or field conditions, the Engineer will make the final determination.
- D. The Contractor and all subcontractors, under this Contract, are prohibited from performing any work, other than specified in the Contract and/or directed by the Engineer, within the limits of the project site, without prior written notification to the Engineer. This includes any work for private or commercial entities.

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.

**Department of Transportation and Public Works Input
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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

**Department of Transportation and Public Works Input
Contract/Project Measure Analysis and Recommendation**

RPQ No.: 20170025

RPQ Title: Intersection Improvements Contract (Push Button-North)

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:

20170025

CSBE Goal / Project No. / Amount achieved:

Trade Set-Aside / 20170025

ENGINEERING COST ESTIMATE INTERSECTION IMPROVEMENT CONTRACT					
ITEM #	Description	Unit	Quantity	Unit Price	Amount
102-71-11A	Temporary Barrier Wall (Concrete) (Furnish & Install)	LF	50	\$ 20.00	\$ 1,000.00
102-99	Variable Message Sign (Temporary)	EA/Day	250	\$ 30.00	\$ 7,500.00
102-74-2	Barricades (Temporary, Type III, 6')	EA/Day	100	\$ 0.75	\$ 75.00
102-74-1A	Barricades (Temporary((Types I, II & VP)	EA/Day	20000	\$ 0.60	\$ 12,000.00
102-76	Flashing Arrow Board (Temporary) (Multimode)	EA/Day	100	\$ 20.00	\$ 2,000.00
102-77	High Intensity Lights (Temporary) (Type "B")	EA/Day	50	\$ 1.00	\$ 50.00
102-91-1A	Pavement Marking Temporary (Solid) (Any Width) (Yellow or White)	LF	32000	\$ 0.30	\$ 9,600.00
102-60A	Work Zone Signs	EA/Day	2500	\$ 1.00	\$ 2,500.00
104-10-3	Sediment Barrier	LF	200	\$ 2.00	\$ 400.00
104-11A	Floating Turbity Barrier	LF	25	\$ 8.00	\$ 200.00
104-18	Inlet Protection System	EA	30	\$ 50.00	\$ 1,500.00
110-4-1-1	Removal and Disposal of existing Curb and Gutter.	LF	2500	\$ 5.00	\$ 12,500.00
110-4-8	Removal and Disposal of existing Asphalt (without base preparation)	SY	900	\$ 10.00	\$ 9,000.00
110-4-10B	Removal and Disposal of existing Sidewalk.	SY	500	\$ 10.00	\$ 5,000.00
120-1	Regular Excavation	CY	1700	\$ 6.00	\$ 10,200.00
120-4	Subsoil Excavation (This Item is contingent upon the actual field conditions and may be increased, decreased or eliminated by the Engineer)	CY	50	\$ 10.00	\$ 500.00
120-6-1	Embankment (This Item is contingent upon the actual field conditions and may be increased, decreased or eliminated by the Engineer)	CY	50	\$ 12.00	\$ 600.00
120-8	Re-Grade Existing Swale (Where shown specifically on plans, or as directed by Engineer, contingent item may be increased or decreased by Engineer)	SY	800	\$ 2.50	\$ 2,000.00
121-70-2	Flowable Fill	CY	40	\$ 90.00	\$ 3,600.00
160-4	Type "B" Stabilization (12" Thick) (Min CBR 30)	SY	2500	\$ 5.00	\$ 12,500.00
162-5	Finish Soil Layer (Landscaping)	CY	160	\$ 15.00	\$ 2,400.00
200-1-10	Lime Rock Base (8" Thick, Primed)	SY	3500	\$ 9.00	\$ 31,500.00
200-2-1	Base Preparation For New Sidewalk Construction	SY	300	\$ 6.00	\$ 1,800.00
285-7	Optional Base	SY	150	\$ 12.00	\$ 1,800.00
327-70	Milling Existing Pavement [1" (Payment for greater cuts will be paid proportionally)]	SY	32000	\$ 3.50	\$ 112,000.00
334-2-13-1	Hot Mix Asphalt, Traffic C, SP- 9.5	TON	980	\$ 105.00	\$ 102,900.00
337-8-42	Hot Mix Asphalt Friction Course, Traffic C, FC 9.5, PG 76-22	TON	2100	\$ 120.00	\$ 252,000.00
339-1	Miscellaneous Asphalt Pavement	TON	20	\$ 150.00	\$ 3,000.00
425-1	Inlet [(Swale) (3 foot inside dimension, circular or square)]	EA	6	\$ 2,000.00	\$ 12,000.00
425-1-35	Curb Inlet Type P-5 (Any Dimension) (Max 15' Deep)	EA	3	\$ 2,500.00	\$ 7,500.00
425-1-36	Curb Inlet Type P-6 (Any Dimension) (Max 15' Deep)	EA	3	\$ 3,200.00	\$ 9,600.00
425-1-541	Inlet Type "D"	EA	12	\$ 2,000.00	\$ 24,000.00
425-1-610	Inlet Swale[(Type P-10) (42" Inside dimension, circular or square)]	EA	5	\$ 3,000.00	\$ 15,000.00
425-1-907	Pollution Retardant Baffle (with neoprene gasket at all contact edges)	EA	5	\$ 180.00	\$ 900.00
425-2-11	Manhole Type USP 3-27.1(36" Diameter) (Maximum 15' Deep)	EA	5	\$ 2,000.00	\$ 10,000.00
425-2-72	Manhole Type J-7T(Any Dimension)(Maximum 15' Deep)	EA	4	\$ 3,000.00	\$ 12,000.00
425-6	Adjust Existing Valves Boxes (MDC Only) (This item is contingent upon field conditions and may increased, decreased or eliminated by the Engineer)	EA	23	\$ 200.00	\$ 4,600.00
425-5	ADJUST MANHOLE (This item is contingent upon field conditions and may be increased, decreased or eliminated by the Engineer)	EA	18	\$ 350.00	\$ 6,300.00

**ENGINEERING COST ESTIMATE
INTERSECTION IMPROVEMENT CONTRACT**

ITEM #	Description	Unit	Quantity	Unit Price	Amount
425-82	MODIFY STRUCTURE- Cut to enlarge opening as needed in order to accomodate pipe due to utility conflict(s), brick and mortar as needed.	EA	6	\$ 1,000.00	\$ 6,000.00
425-11B	Catch Basin Drain Field and Stub Pipes [(Incl plastic filter fabric) and 50' of 18" perforated pipe, pipe length and direction pipe, to be determined on the field by the Engineer]	EA	5	\$ 7,500.00	\$ 37,500.00
430-171-121	PIPE CULVERT - 12" Diameter	LF	15	\$ 50.00	\$ 750.00
430-171-123	Pipe Culvert 15" Diameter	LF	100	\$ 65.00	\$ 6,500.00
430-171-125	Pipe Culvert 18" Diameter	LF	200	\$ 75.00	\$ 15,000.00
430-171-129	Pipe Culvert 24" Diameter	LF	50	\$ 85.00	\$ 4,250.00
443-70-3-3	French Drain (18" diameter pipe, trench depth 15 ft bls)	LF	800	\$ 87.00	\$ 69,600.00
443-70-4-3	French Drain (24" diameter pipe, trench depth 15 ft bls)	LF	100	\$ 110.00	\$ 11,000.00
520-1-15	Concrete Valley Gutter (3' Wide)	LF	20	\$ 15.00	\$ 300.00
520-2	Concrete Curb & Gutter (Any Type , including base preparation)	LF	10000	\$ 15.00	\$ 150,000.00
522-1(1)	Concrete Sidewalk [4" Thick , 3000 PSI concrete at 28 Days (Includes the cost of pedestrian ramps and sidewalks curbs)]	SY	800	\$ 28.00	\$ 22,400.00
522-2	Concrete Sidewalk [6" Thick , 3000 PSI concrete at 28 Days (Includes the cost of pedestrian ramps and sidewalks curbs)]	SY	150	\$ 32.00	\$ 4,800.00
522-8	Concrete Crosswalk [10" Thick , 3000 PSI concrete at 28 Days (Includes base preparation and Reinforcement)]	SY	30	\$ 40.00	\$ 1,200.00
526-70-2B	Installation of Bricks Pavers (Any Type, Including Base Preparation)	SY	120	\$ 40.00	\$ 4,800.00
527-2	Detectable Warning on Walking Surface	SF	380	\$ 30.00	\$ 11,400.00
536-73B	GUARDRAIL REMOVAL	LF	50	\$ 4.00	\$ 200.00
538-1A	GUARDRAIL, RESET	LF	30	\$ 20.00	\$ 600.00
575-1-1	Sodding (Pensacola Bahia or match existing) (Including watering)	SY	2600	\$ 3.00	\$ 7,800.00
700-40-01	Roadside Signs (Single post, and panels up to 12 sf)	AS	100	\$ 200.00	\$ 20,000.00
700-46-22	Reset Existing Signs and Posts	AS	10	\$ 80.00	\$ 800.00
700-48-18	Sign Panel (less than 15 sf)	EA	80	\$ 90.00	\$ 7,200.00
700-48-60A	Remove Existing Signs and Posts	AS	6	\$ 50.00	\$ 300.00
705-11-1	Delineator (Flexible Tubular)	EA	20	\$ 60.00	\$ 1,200.00
706-1-12	Reflective Pavement Markers (Class B, mono or bi-directional, all colors)	EA	1500	\$ 4.00	\$ 6,000.00
706-2	Removal of Existing Pavement Markers	EA	50	\$ 0.25	\$ 12.50
710-3	Pavement Messages, Paint	EA	10	\$ 40.00	\$ 400.00
710-4	Directional Arrows, Paint	EA	40	\$ 40.00	\$ 1,600.00
710-11-290	Painted Pavement Markings (Standard) (Yellow) (Island Nose)	SF	500	\$ 3.00	\$ 1,500.00
711-2	Skip Traffic Stripe(6' Stripe, 10' Space) (White Thermoplastic 6" Wide)	LF	600	\$ 0.50	\$ 300.00
711-3A(3)	Pavement Messages, Thermoplastic	EA	10	\$ 100.00	\$ 1,000.00
711-4	Directional Arrows (Thermoplastic)	EA	40	\$ 50.00	\$ 2,000.00
711-11-151	Thermoplastic (White)(Dotted/Guideline)(6")	LF	100	\$ 0.70	\$ 70.00
711-11-251	Thermoplastic (Yellow)(Dotted/Guideline)(6")	LF	150	\$ 0.70	\$ 105.00
711-7	Remove Existing Pavement Markings	SF	200	\$ 3.00	\$ 600.00
711-11-121	Thermoplastic (White) (Solid) (6")	LF	11000	\$ 0.60	\$ 6,600.00
711-11-122	Thermoplastic (White) (Solid) (8")	LF	800	\$ 1.00	\$ 800.00
711-11-123	Thermoplastic (White) (Solid) (12")	LF	2000	\$ 1.20	\$ 2,400.00
711-11-124	Thermoplastic (White) (Solid) (18")	LF	600	\$ 1.80	\$ 1,080.00
711-11-125	Thermoplastic (White) (Solid) (24")	LF	2000	\$ 2.40	\$ 4,800.00

ENGINEERING COST ESTIMATE
INTERSECTION IMPROVEMENT CONTRACT

ITEM #	Description	Unit	Quantity	Unit Price	Amount
711-11-221	Thermoplastic (Yellow) (Solid) (6")	LF	8000	\$ 0.60	\$ 4,800.00
711-11-224	Thermoplastic (Yellow) (Solid) (18")	LF	820	\$ 1.80	\$ 1,476.00
711-11-241	Thermoplastic (Yellow) (Skip) (6")	LF	200	\$ 0.50	\$ 100.00
711-9	Edging	LF	100	\$ 0.50	\$ 50.00
Contract Base Amount					\$ 1,121,318.50
999	CONTINGENCY FUND (10% OF SUBTOTAL AMOUNT)	LS	1.00	\$ 112,131.85	\$ 112,131.85
102-10A	Off Duty Law	LS	1.00	\$ 20,000.00	\$ 20,000.00
102-1M	MAINTENANCE OF TRAFFIC (Including traffic cones, temporary signs, flag men, etc.) (Shall not exceed 2% of Contract Sub-total Amount)	LS	1.00	\$ 22,426.37	\$ 22,426.37
110-1-1	Clearing and Grubbing	LS	1.00	\$ 11,213.19	\$ 11,213.19
300-1-999	Bituminous Material Adjustment	LS	1.00	\$ 5,000.00	\$ 5,000.00
990	Allowance Permits	LS	1.00	\$ 2,000.00	\$ 2,000.00
					\$ 172,771.41
Total Contract Amount					\$ 1,294,089.91

1.01 LOCATION OF WORK

- A. There are not specific sites identified for this project. The locations of work for this project are located inside the boundary area of the North portion of Miami-Dade County up to of SW 8th Street (Inclusive).