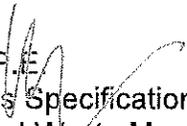


**Date:** September 17, 2014

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

**From:** Luis O. Pérez, F.E.   
Senior Contracts Specifications Writer  
Public Works and Waste Management  
Department

**Subject:** Notice of Construction Project:  
7360 Project No. 20140143  
Improvements to Cartagena Plaza Circle

---

**RECOMMENDATION**

Capital Improvements staff completed its review of the scope of work for the subject Project. Based on the analysis of factors contained in Section VI D of Implementing Order 3-22, Public Works and Waste Management (PWWM) suggests the following contract measure recommendation:

Trade Set-Aside: Traffic Stripes and Markings (Painted and/or Thermoplastic) and Concrete

The total estimated cost is \$393,148.03.

Public Works and Waste Management Department (PWWM) staff has attached the PWWM Project Measure Analysis and Recommendation findings along with other supporting documents for consideration. The Community Workforce Program (CWP) is not applicable to this project.

**BACKGROUND**

The existing pavement markings are badly faded. In combination with milling and resurfacing, the pavement markings and traffic signage will be updated to current standards for roundabout design and landscaped islands will also be included to improve safety, channelize traffic flow and enhance the aesthetic appearance of this existing roundabout intersection.

If any additional information is needed, please call me at (305) 375-2932, or Alejandro Martinez-Esteve at (305) 375-2930.

LOP/lop

Attachments (2)

C: Vivian Forhat-Diaz, ISD; Laurie Johnson, ISD; Bassam Moubayed, PWWM  
Alejandro Martinez-Esteve, R.A., LEED AP, PWWM; Alfredo Munoz, P.E., PWWM;  
Dianah Coakley, PWWM; Lisset Cabrera, PWWM; File

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

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

From: Luis O. Pérez, P.E.  
Senior Contract Specifications Writer  
Public Works and Waste Management Department

Date: Wednesday, September 17, 2014

Department: Public Works and Waste Management

Contract Type:

Single Trade – Intersection Improvement

Request for Price Quotation (RPQ) No.:

20140143

Re-submittal:  Yes

No

Project Title:

Improvements to Cartagena Plaza Circle

Standard Industrial Code (SIC):

16-Highway Construction

Estimated Project Cost:

\$272,300.00

Funding Source:

RIF

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

RPQ No.: 20140143

RPQ Title: Improvements to Cartagena Plaza Circle

#### 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.
- B. Work includes removing existing lighting and associated conductors, signs, and paving markings in conflict with the proposed scope of work; upgrading the existing electrical service; milling and resurfacing, furnish and install a complete lighting system, concrete curb and gutter, paving markings, signs and any ancillary items related with the Work specified on the proposed plans and in accordance with the Contract Documents.
- C. 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.

#### CONTRACTOR CERTIFICATION AND EXPERIENCE REQUIREMENTS

Certificate of Competency Requirement:

- A. Include with the bid submittal package, copies of certifications and documentation that demonstrate that 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 Documents, the Bidder holds a valid, current, and active:
  - a. 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 paving 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
  - b. Pursuant to Section 255.20, F.S. and in lieu of the above, the County may consider a bid from a Bidder that is a 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 14-22, Florida Administrative Code, to perform the work described in the Contract Documents. Contractors seeking consideration under this Paragraph shall submit along with the bid submittal package 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 Contract Documents include the Paving Work Class.

RPQ No.: 20140143

RPQ Title: Improvements to Cartagena Plaza Circle

Experience Requirement:

- A. 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. A detailed description of projects, similar to the Project Scope of Work, in which the Bidder is currently engaged or has completed within the past ten years.
    - i. List and describe those projects performed for government clients, similar size private entities, and any work performed for the County.
    - ii. 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.
  - b. An FDOT prequalified contractor may demonstrate the Experience Requirement herein by meeting the Certificate of Competency Requirement of subarticle 2 above.

INSURANCE TO BE CARRIED BY CONTRACTOR

Contractor shall indemnify and hold harmless the County and its officers, employees, agents and instrumentalities from any and all liability, losses or damages, including attorneys' fees and costs of defense, which the County or its officers, employees, agents or instrumentalities may incur as a result of claims, demands, suits, causes of actions or proceedings of any kind or nature arising out of, relating to or resulting from the performance of this Agreement by the Contractor or its employees, agents, servants, partners principals or subcontractors. Contractor shall pay all claims and losses in connection therewith and shall investigate and defend all claims, suits or actions of any kind or nature in the name of the County, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attorney's fees which may issue thereon. Contractor expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by Contractor shall in no way limit the responsibility to indemnify, keep and save harmless and defend the County or its officers, employees, agents and instrumentalities as herein provided.

The Contractor shall furnish to Public Works and Waste Management Department, Construction Division, 111 NW 1st Street, 14th Floor, Miami, Florida 33128, Certificate(s) of Insurance which indicate that insurance coverage has been obtained which meets the requirements as outlined below:

- a. Worker's Compensation Insurance as required by Chapter 440, Florida Statutes, including, if applicable, coverage under the U.S. Longshoremen and Harbor Workers' Act and Jones Act coverage.
- b. Commercial General Liability Insurance on a comprehensive basis in an amount not less than \$1,000,000 combined single limit per occurrence for bodily injury and property damage. **Miami-Dade County must be shown as an additional insured with respect to this coverage.**

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

RPQ No.: 20140143

RPQ Title: Improvements to Cartagena Plaza Circle

- c. Automobile Liability Insurance covering all owned, non-owned and hired vehicles used in connection with the work, in an amount not less than \$500,000 combined single limit per occurrence for bodily injury and property damage.

All insurance policies required above shall be issued by companies authorized to do business under the laws of the State of Florida, with the following qualifications:

The company must be rated no less than "A-" as to management, and no less than "Class VII" as to financial strength by A.M. Best Company, Oldwick, New Jersey, or its equivalent, subject to the approval of the County Risk Management Division.

or

The company must hold a valid Florida Certificate of Authority as shown in the latest "List of All Insurance Companies Authorized or Approved to Do Business in Florida" issued by the State of Florida Department of Financial Services.

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

RPQ No.: 20140143

RPQ Title: Improvements to Cartagena Plaza Circle

Certificates will indicate no modification or change in insurance shall be made without thirty (30) days in advance notice to the certificate holder.

PWWM Areas for possible measures:

Traffic Stripes and Markings (Painted and/or Thermoplastic)

PWWM Areas recommended for CSBE participation:

Traffic Stripes and Markings (Painted and/or Thermoplastic)

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)
- Aggregate Set-Aside
- CSBE Subcontractor Goal
- CWP
- DBE Subcontractor Goal

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

RPQ No.: 20140143

RPQ Title: Improvements to Cartagena Plaza Circle

Reason for Recommendation:

Capital Improvements staff completed its review of the scope of work for the subject Project. Based on the analysis of factors contained in Section VI D of Implementing Order 3-22, Public Works and Waste Management (PWWM) suggests the following contract measure recommendation:

Trade Set-Aside: Traffic Stripes and Markings (Painted and/or Thermoplastic) and Concrete

The total estimated cost is \$393,148.03.

Public Works and Waste Management Department (PWWM) staff has attached the PWWM Project Measure Analysis and Recommendation findings along with other supporting documents for consideration. The Community Workforce Program (CWP) is not applicable to this project.

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

RPQ No.: 20140143

RPQ Title: Improvements to Cartagena Plaza Circle

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

None

Scope of Work History Summary – Subcontracting Opportunities:

N/A

Areas used to meet subcontractor goal (Awarded Contractor):

N/A

Similar Projects previously submitted for Project Review and Analysis Process:

None

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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.:** 20140143

\*Reference corresponding project number when submitting a work order

**Contract/Project Title:** Improvements to Cartagena Plaza Circle

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

**Estimated Cost:** \$393,148.03      **Funding Source:** Other (specify)

**Location of Project** (street address or beginning and ending points) i.e. 12345 NE 23<sup>rd</sup> Ct or Starts at 135 St. ends at 145 St.  
SW 72 Street and SW Lejune Rd (Cocoplum Circle)

**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	<b>2</b>	<b>120</b>
Foremen	<b>1</b>	<b>120</b>
Operator/Laborer	<b>46</b>	<b>120</b>

Comments: Please note the estimated number of days to complete the job may not be equal to actual amount of days indicated above.

**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:** Opportunity for DBE participation and Funding source

**Date submitted to DBD:** 09-17-14

**Contact Person:** Luis O. Perez

**Telephone No.:** 305-375-5320

**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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SW 72 Street and SW Lejune Rd (Cocoplum Circle)

**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
Traffic Stripes and Markings (Painted and/or Thermoplastic)	2	120
Concrete	3	120
Lighting	3	120

Comments: Please note the estimated number of days to complete the job may not be equal to actual amount of days indicated above.

**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

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SW 72 Street and SW Lejune Rd (Cocoplum Circle)

**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	<b>1</b>	<b>120</b>
		<b>120</b>
		<b>120</b>

Comments: Please note the estimated number of days to complete the job may not be equal to actual amount of days indicated above.

**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:** Opportunity for DBE participation and Funding source

**Date submitted to DBD:** 09-17-14

**Contact Person:** Luis O. Perez

**Telephone No.:** 305-375-5320

COST ESTIMATE						L.D.
Cocoplum Circle					DATE: 9-10-2014	
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST	
<b>CONSTRUCTION MOT ITEMS</b>						
102-1	MAINTENANCE OF TRAFFIC	L.S.	1	\$8,337.67	\$ 8,337.67	
102-71-11A	TEMPORARY BARRIER WALL (Concrete) (Furnish & Install)	L.F.	0	\$15.00	\$ -	
102-74-2	BARRICADES ( Temporary, Type III, 6')	E/ADAY	0	\$2.00	\$ -	
102-74-1A	BARRICADES ( TEMPORARY- TYPE I, II & VP)	E/ADAY	0	\$1.50	\$ -	
102-76	FLASHING ARROW BOARD (Temporary, Multimode)	E/ADAY	0	\$20.00	\$ -	
102-77	HIGH INTENSITY FLASHING LIGHTS (TEMPORARY, TYPE "B")	E/ADAY	0	\$2.00	\$ -	
102-91-1A	PAVEMENT MARKING TEMPORARY (Solid) (Any width) (Yellow or White) ( Paint)	L.F.	0	\$0.20	\$ -	
102-60A	WORK ZONE SIGNS	E/ADAY	0	\$1.00	\$ -	
104-10-3	Sediment Barrier	L.F.	0	\$20.00	\$ -	
104-11A	FLOATING TURBIDITY BARRIER	L.F.	0	\$50.00	\$ -	
104-18	Inlet Protection System	EA	0	\$50.00	\$ -	
<b>CLEARING AND GRUBBING</b>						
110-1-1B	CLEARING AND GRUBBING	L.S.	1	\$4,273.84	\$ 4,273.84	
110-4-1-1	REMOVAL AND DISPOSAL OF EXISTING CURB AND GUTTER	L.F.	0	\$5.00	\$ -	
110-4-10B	REMOVE AND DISPOSE EXISTING SIDEWALK	S.Y.	0	\$15.00	\$ -	
<b>EARTHWORK</b>						
120-1	REGULAR EXCAVATION	C.Y.	0	\$10.00	\$ -	
120-4	SUBSOIL EXCAVATION ( This item is contingent upon the actual field conditions and may	C.Y.	0	\$30.00	\$ -	
120-6-1	EMBANKMENT (INCLUDES BORROW) (This item is contingent upon existing field	C.Y.	0	\$15.00	\$ -	
120-8	RE-GRADE EXISTING SWALE - (Where shown specifically on plans, or as directed by	S.Y.	0	\$10.00	\$ -	
121-70-2	FLOWABLE FILL	C.Y.	0	\$300.00	\$ -	
160-4	TYPE "B" STABILIZATION (12" Thick) (Min. C.B.R. 30)	S.Y.	0	\$5.00	\$ -	
162-5	FINISH SOIL LAYER (Landscaping)	C.Y.	0	\$15.00	\$ -	
<b>BASE COURSES</b>						
200-1-10	LIMEROCK BASE (8" Thick, Primed)	S.Y.	0	\$20.00	\$ -	
200-2-1	BASE PREPARATION FOR NEW SIDEWALK CONSTRUCTION	S.Y.	0	\$30.00	\$ -	
285-7	OPTIONAL BASE	S.Y.	0	\$80.00	\$ -	
<b>BITUMINOUS COURSES</b>						
327-70	MILLING EXISTING PAVEMENT [(1") (Payment for greater cuts will be paid proportionally)]	S.Y.	7,500	\$2.00	\$ 15,000.00	
334-2-13-1	Hot Mix Asphalt, Traffic C, SP-9.5	TON	0	\$90.00	\$ -	
337-8-42	Hot Mix Asphalt Friction Course, Traffic C, FC-9.5, PG 76-22	TON	560	\$90.00	\$ 50,400.00	
339-1	MISCELLANEOUS ASPHALT PAVEMENT	TON	50	\$100.00	\$ 5,000.00	
351-1A	COLOR CONCRETE CURB AND GUTTER (Type F)	L.F.	550	\$30.00	\$ 16,500.00	
351-1B	COLORED CONCRETE SIDEWALK (4"- Thick)	S.Y.	0	\$50.00	\$ -	
351-1C	COLORED CONCRETE SIDEWALK (6"- Thick)	S.Y.	0	\$50.00	\$ -	
<b>CONCRETE STRUCTURES</b>						
425-1	INLET [(Swale) (3 foot inside dimension, circular or square)]	EA.	0	\$2,500.00	\$ -	
425-1-35	CURB INLET TYPE P-5 (Any Dimension) (Max. 15' Deep)	EA.	0	\$3,500.00	\$ -	
425-1-36	CURB INLET TYPE P-6 (Any Dimension) (Max. 15' Deep)	EA.	0	\$3,500.00	\$ -	
425-1-400	INLET TYPE "J"	EA.	0	\$3,800.00	\$ -	
425-1-541	INLET TYPE D	EA.	0	\$3,900.00	\$ -	
425-1-610	INLET SWALE [(TYPE P-10)(42" inside dimension, circ	EA.	0	\$3,000.00	\$ -	
425-1-907	POLLUTION RETARDANT BAFFLE (With neoprene ge	EA.	0	\$350.00	\$ -	
425-2-11	MANHOLE TYPE USP 3-27.1 (36" diameter) (Maximum 15' deep)	EA.	0	\$2,500.00	\$ -	
425-2-72	MANHOLE TYPE J-7T-, (Any dimension, maximum 15' deep)	EA.	0	\$3,500.00	\$ -	
425-5	ADJUST MANHOLE(This item is contingent upon field conditions and may be increased, decreased or eliminated by the Engineer)	EA.	0	\$350.00	\$ -	
425-6	ADJUST EXISTING VALVE BOXES (MIAMI DADE COUNTY) (This item is contingent upon field conditions and may be increased, decreased or eliminated by the Engineer)	EA.	0	\$200.00	\$ -	
425-82	MODIFY STRUCTURE-Cut to enlarge opening as needed in order to accommodate pipe due to utility conflict(s), brick and mortar as needed.	EA.	0	\$400.00	\$ -	
425-11B	CATCH BASIN, DRAIN FIELD AND STUB PIPES (Incl. plastic filter fabric) and 50' of 18" perforated pipe, pipe length and direction of pipe, to be determined on the field by the engineer)	EA.	0	\$5,000.00	\$ -	

430-171-121	PIPE CULVERT - 12" Diameter	L.F.	0	\$60.00	\$ -
430-171-123	PIPE CULVERT - 15" Diameter	L.F.	0	\$65.00	\$ -
430-171-125	PIPE CULVERT - 18" Diameter	L.F.	0	\$66.00	\$ -
430-171-129	PIPE CULVERT 24" DIAMETER	L.F.	0	\$67.00	\$ -
443-70-3-3	FRENCH DRAIN- (18" diameter pipe, trench depth 15 ft bis)	L.F.	0	\$90.00	\$ -
443-70-4-3	FRENCH DRAIN (24" Diameter perforated pipe; trench depth 15 ft BLS)	L.F.	0	\$95.00	\$ -
<b>INCIDENTAL CONSTRUCTION</b>					
520-1-15	CONCRETE VALLEY GUTTER (3' Wide)	L.F.	0	\$30.00	\$ -
520-2A	CONCRETE CURB AND/OR GUTTER(Any type , including base preparation)	L.F.	1,100	\$16.00	\$ 17,600.00
522-1(1)	CONCRETE SIDEWALK [4" THICK, 3,000 P.S.I. concrete at 28 days (Includes the cost of pedestrian ramps and sidewalks curbs)	S.Y.	0	\$30.00	\$ -
522-2	CONCRETE SIDEWALK (6" THICK, 3,000 P.S.I. concrete at 28 days (includes pedestrian ramps and sidewalks curbs)	S.Y.	0	\$40.00	\$ -
522-8	CONCRETE CROSSWALK (10"THICK, 3,000 P.S.I. concrete at 28 days (includes base preparation and reinforcement))	S.Y.	0	\$65.00	\$ -
526-70-2B	INSTALLATION OF BRICK PAVERS, any type, including Base Preparation.	S.Y.	0	\$50.00	\$ -
527-2	DETECTABLE WARNING ON WALKING SURFACE	S.F.	32	\$20.00	\$ 640.00
536-73B	GUARDRAIL REMOVAL	L.F.	0	\$20.00	\$ -
538-1A	GUARDRAIL, RESET	L.F.	0	\$21.00	\$ -
575-1-1	SODDING (Pensacola Bahia or match existing) (includes watering)	S.Y.	3,300	\$5.00	\$ 16,500.00
<b>TRAFFIC CONTROL SIGNALS</b>					
620-1-1	GROUNDING ELECTRODE	L.F.	0	\$12.00	\$ -
630-1-12	CONDUIT 2" PVC UNDER GROUND	L.F.	0	\$9.00	\$ -
630-1-13	CONDUIT 2" PVC UNDER PAVEMENT (This item is contingent upon field conditions and may be increased, decreased or eliminated by the Engineer)	L.F.	0	\$17.00	\$ -
630-1-14	CONDUIT 2" PVC (UNDER GROUND DIRECTIONAL BORE)	L.F.	0	\$22.00	\$ -
630-1-16B	CONDUIT, 2" PVC [(Additional conduit installed in existing open trench) (This item is contingent upon field conditions and may be increased, decreased or eliminated by the Engineer)]	L.F.	0	\$4.00	\$ -
632-7-1A	TRAFFIC CONTROL CABLE - (11-21 conductor)	L.F.	0	\$10.00	\$ -
632-7-1B	TRAFFIC CONTROL CABLE - (4-7 conductor)	L.F.	0	\$7.00	\$ -
635-1-11	PULL BOX, METER TYPE (Polymer)	AS.	0	\$523.00	\$ -
639-1-13	ELECTRICAL POWER SERVICES ( INCLUDES NEMA-3R RAIN-TIGHT INCLOSURE, DISCONNECT SWITCH, POLE CONDUIT)	EA	0	\$4,000.00	\$ -
639-2-1	SERVICE WIRE[#6 AWG WITH THW INSULATION](THREE CONDUCTOR SET)(BLACK,WHITE AND GREEN)]	EA	0	\$6.00	\$ -
641-2-12	Prestressed Concrete Poles (Furnish and Install) (Type P-I) Service Pole)	EA	0	\$1,130.00	\$ -
646-1-11	ALUMINUM SIGNALS POLE (Furnish & Install) (Pedestal)	EA	0	\$1,030.00	\$ -
647-11-01C	MAST ARM COMBINATION STANDARD - INSTALLATION ONLY - (Contractor furnishes foundation, cuts and adjust arms to fit, furnish arm caps and other incidentals)	AS.	0	\$8,000.00	\$ -
647-11-24	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-8 (24' ARM)	AS.	0	\$13,200.00	\$ -
647-11-28	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-8 (28' ARM)	AS.	0	\$13,433.00	\$ -
647-11-32	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-12 (32' ARM)	AS.	0	\$13,433.00	\$ -
647-11-34	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-13 (34' ARM)	AS.	0	\$15,533.00	\$ -
647-11-36	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-14 (36' ARM)	AS.	0	\$15,533.00	\$ -
647-11-38	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-15 (38' ARM)	AS.	0	\$19,367.00	\$ -
647-11-40	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-16 (40' ARM)	AS.	0	\$15,000.00	\$ -
647-11-42	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-17 (42' ARM)	AS.	0	\$19,367.00	\$ -
647-11-44	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-18 (44' ARM)	AS.	0	\$19,900.00	\$ -
647-11-46	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-25 (46' ARM)	AS.	0	\$20,207.00	\$ -
647-11-48	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-25 (48' ARM)	AS.	0	\$23,007.00	\$ -
647-11-50	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-28 (50' ARM)	AS.	0	\$25,100.00	\$ -
647-11-52	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-28 (52' ARM)	AS.	0	\$25,100.00	\$ -
647-11-58	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-28 (58' ARM)	AS.	0	\$28,500.00	\$ -

650-51-313	TRAFFIC SIGNAL (Furnish and Install) (3 SECTION, 1 WAY), (Complete with horizontal mounting brackets and lamps) (LED)	AS.	0	\$1,067.00	\$ -
650-51-413	TRAFFIC SIGNAL (Furnish and Install) (4 SECTION, 1 WAY), (Complete with horizontal mounting brackets and lamps) (LED)	AS.	0	\$1,317.00	\$ -
650-51-513	TRAFFIC SIGNAL (Furnish and Install) (5 SECTION, 1 WAY), (Complete with horizontal mounting brackets and lamps) (LED)	AS.	0	\$1,590.00	\$ -
653-191	PEDESTRIAN SIGNAL, 1-Way (LED-Countdown)	AS.	0	\$910.00	\$ -
654-2-21	RECTANGULAR RAPID FLASHING BEACON (Furnish & Install) (Solar Powered, Complete Assembly, Single Direction)	AS.	0	\$16,000.00	\$ -
654-2-22	RECTANGULAR RAPID FLASHING BEACON (Furnish & Install) (Solar Powered, Complete Assembly, Back to Back)	AS.	0	\$22,000.00	\$ -
659-112	SIGNAL HEAD AUXILIARIES (MOUNTING BRACKET, 2 WAY)	EA.	0	\$267.00	\$ -
660-1-109	LOOP VEHICLE DETECTOR AMPLIFIER (RELAY OUTPUT - RACK MOUNTED TYPE 170 CABINET)	AS.	0	\$190.00	\$ -
660-2-101	LOOP ASSEMBLY	AS.	0	\$1,133.00	\$ -
660-2-106	LOOP ASSEMBLY (Furnish & Install) (Type F)	AS.	0	\$1,333.00	\$ -
660-4-4A	LOOP LEAD IN CABLE (No. 14 A.W.G.)	L.F.	0	\$6.20	\$ -
665-11	PEDESTRIAN DETECTOR (Includes Push Button Sign R10-3B)	EA.	0	\$236.00	\$ -
672-1-3	INSTALL TRAFFIC CONTROLLER ASSEMBLY - (Build-up controller & components furnished by County Contractor to construct foundation, install and wire controller & components for a complete installation)	AS.	0	\$4,833.00	\$ -
676-110-110A	CONTROLLER CABINET - POLE MOUNTED	EA.	0	\$700.00	\$ -
678-1-113C	SOLAR PAGER PROGRAMABLE TIME SWITCH	EA.	0	\$4,800.00	\$ -
685-1-65A	FLASHING BEACONS (Includes ornamental base and pedestal, powder coat finish, Direct Aim/Dual)	AS.	0	\$18,000.00	\$ -
690-10	REMOVE TRAFFIC SIGNAL HEAD ASSEMBLY	EA.	0	\$6,000.00	\$ -
690-20	REMOVE PEDESTRIAN SIGNAL HEAD ASSEMBLY	EA.	0	\$50.00	\$ -
690-31	REMOVE SIGNAL PEDESTAL	EA.	0	\$50.00	\$ -
690-32-2	POLE REMOVAL (Shallow) (Bolt on Attachment)	EA.	0	\$800.00	\$ -
690-33-1	POLE REMOVAL (DEEP) (Direct Burial)	EA.	0	\$1,200.00	\$ -
690-40	REMOVE MAST ARM ASSEMBLY	EA.	0	\$1,500.00	\$ -
690-50	REMOVE CONTROLLER ASSEMBLY	EA.	0	\$800.00	\$ -
690-51	REMOVE CONTROLLER FOUNDATION - Includes proper disposal, and grading of area if required.	EA.	0	\$500.00	\$ -
690-70	REMOVE PEDESTRIAN DETECTOR ASSEMBLY	EA.	0	\$40.00	\$ -
690-100	REMOVE MISCELLANEOUS SIGNAL EQUIPMENT	P.I.	0	\$800.00	\$ -
699-1-1A	INTERNALLY ILLUMINATED STREET NAME SIGN (LED), (INCLUDING MOUNTING BRACKET)	AS.	0	\$1,533.00	\$ -
<b>SIGNING, PAVEMENT MARKING, LIGHTING</b>					
700-40-01B	ROADSIDE SIGNS (LESS THAN 12 S.F.) (FURNISHING AND INSTALLATION)	AS.	5	\$340.78	\$ 1,703.90
700-40-01C	ROADSIDE SIGNS ((SINGLE POST ) (LESS THAN 12 S.F.))	AS.	46	\$104.75	\$ 4,818.50
700-46-22	RESET EXISTING POST AND SIGN	EA.	2	\$100.00	\$ 200.00

700-48-10A	SIGN PANEL (25 S.F. OR LESS) (FURNISH & INSTALL)	EA.	8	\$232.33	\$ 1,858.64
700-48-18	SIGN PANEL (LESS THAN 15 SF.)	EA.	8	\$210.00	\$ 1,680.00
700-48-60A	REMOVE EXISTING SIGNS & POSTS	AS.	1	\$100.00	\$ 100.00
705-11-1	DELINEATOR (Flexible Tubular)	EA.	0	\$160.00	\$ -
706-1-12	REFLECTIVE PAVEMENT MARKERS (class B, mono or bi-directional, all colors)	EA.	840	\$5.00	\$ 4,200.00
706-2	REMOVAL OF EXISTING PAVEMENT MARKERS	EA.	0	\$1.00	\$ -
710-11-160	PAINTED PAVEMENT MARKINGS (Standard, White, Message)	EA.	8	\$50.00	\$ 400.00
710-11-170	PAINTED PAVEMENT MARKINGS (Standard, White, Arrows)	EA.	16	\$60.00	\$ 960.00
710-11-121	PAINTED PAVEMENT MARKINGS (Standard, White, Solid, 6")	L.F.	4,100	\$0.05	\$ 205.00
710-11-123	PAINTED PAVEMENT MARKINGS (Standard, White, Solid, 12")	L.F.	600	\$0.05	\$ 30.00
710-11-124	PAINTED PAVEMENT MARKINGS (Standard, White, Solid, 18")	L.F.	130	\$0.05	\$ 6.50
710-11-125	PAINTED PAVEMENT MARKINGS (Standard, White, Solid, 24")	L.F.	420	\$0.10	\$ 42.00
710-11-221	PAINTED PAVEMENT MARKINGS (Standard, Yellow, Solid, 6")	L.F.	1,500	\$0.05	\$ 75.00
710-11-222	PAINTED PAVEMENT MARKINGS (Standard, Yellow, Solid, 18")	L.F.	300	\$0.05	\$ 15.00
710-11-290	PAINTED PAVEMENT MARKINGS (Standard) (Yellow) (Island Nose)	S.F.	0	\$2.00	\$ -
711-2	SKIP TRAFFIC STRIPE (6' STRIPE, 10' SPACE) (WHITE THERMOPLASTIC) (6" WIDE)	L.F.	0	\$2.00	\$ -
711-4	DIRECTIONAL ARROWS (Thermoplastic)	EA.	16	\$50.00	\$ 800.00
711-72	REMOVE EXISTING PAVEMENT MARKINGS (Thermoplastic & Plastic)	S.F.	0	\$2.00	\$ -
711-11-121	THERMOPLASTIC (White) (Solid) (6")	L.F.	2,100	\$0.80	\$ 1,680.00
711-11-122	THERMOPLASTIC (White) (Solid) (8")	L.F.	1,100	\$2.00	\$ 2,200.00
711-11-123	THERMOPLASTIC (White) (Solid) (12")	L.F.	300	\$2.00	\$ 600.00
711-11-124	THERMOPLASTIC (White) (Solid) (18")	L.F.	130	\$3.00	\$ 390.00
711-11-125	THERMOPLASTIC (White) (Solid) (24")	L.F.	250	\$4.00	\$ 1,000.00
711-11-151	THERMOPLASTIC (White) (Dotted/Guideline) (6")	L.F.	100	\$2.00	\$ 200.00
711-11-221	THERMOPLASTIC (Yellow) (Solid) (6")	L.F.	1,500	\$0.80	\$ 1,200.00
711-11-224	THERMOPLASTIC (Yellow) (Solid) (18")	L.F.	300	\$2.00	\$ 600.00
711-11-241	THERMOPLASTIC (Yellow) (Skip) (6")	L.F.	0	\$2.00	\$ -
711-11-251	THERMOPLASTIC (Yellow) (Dotted/Guideline) (6")	L.F.	0	\$2.00	\$ -
711-3A(3)	PAVEMENT MESSAGE, THERMOPLASTIC	EA.	8	\$100.00	\$ 800.00
711-99	EDGING	L.	0	\$1.00	\$ -
715-1-113E	Conductor - Furnish and install three conductors set of 2- #6 RHW-XLP stranded black and white with 1- # 6 THWN green	L.F.	850	\$17.00	\$14,450.00
715-4-111	Decorative Light Pole	E.A.	0	\$9,500.00	\$0.00
715-2-215	Conduit (2" PVC-Schedule 40)(Underpavement)	L.F.	1600	\$5.00	\$8,000.00
715-7-11D	Load Center Complete (Includes 15ft concrete pole, switch and wire at service point)	E.A.	0	\$6,800.00	\$0.00
715-14-112	PULL.BOX, Roadside, Includes 20 ft of ground rod.	E.A.	7	\$600.00	\$4,200.00
715-XX-XXX	Light Pole Complete (F&I) decorative double hung w/ teardrop luminaire 250 W/HPS including, required foundation and 6'x5'6" concrete apron around pole foundation and new pull box	E.A.	6	\$14,500.00	\$87,000.00
901	Provide all necessary labor and equipment to reconfigure the road to accommodate new traffic conditions by saw cutting, removal and disposal of existing pavement according to the specific contours indicated in plans not to damage adjacent areas.	SY	50	\$60.00	
					\$ 5,683.28
					5366.57
<b>BASE ESTIMATE</b>					
<b>SUBTOTAL</b>					<b>\$276,378.23</b>
<b>DEDICATED ALLOWANCES</b>					
	Misc study & design 15%				\$41,456.73
	CEI 10%				\$27,637.82
	Survey 5%				\$13,818.91
	PERMITS 1%				\$2,763.78
	indep. Inspector General 1.25%				\$3,454.73
999	CONTINGENCY 10%				\$27,637.82
<b>SUBTOTAL WITH ALLOWANCES</b>					<b>\$393,148.03</b>
<b>PERCENTAGES OPEN TO CONTRACT NEGOTIATION</b>					
101-1	MOBILIZATION 0%	LS	1.00		\$0.00
102-1	MOT 2%	LS	1.00		
110-1-1	CLEARING AND GRUBBING 1%	LS	1.00		
<b>TOTALS SUBJECT TO CONTRACT</b>					<b>\$0.00</b>
<b>GRAND TOTAL</b>					<b>\$393,148.03</b>