

Date: July 28, 2014

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



Jean Bernard Philippeaux

From: Engineer 2
Public Works and Waste Management Department

Subject: Notice of Construction Project:
Miscellaneous Construction Contracts (MCC)
Program: MCC 7360 Plan - CICC 7360-0/08
Request for Price Quotation (RPQ) No. 20130272-R
Push-Button Contract for Traffic Signal
Improvements (South)-Resubmittal

RECOMMENDATION

Departmental Contract Measure Recommendation: Trade Set-Aside: Traffic Stripes and Markings: Painted and/or Thermoplastic

Engineer's Opinion of Probable Construction Costs: \$457,029.53

Community Workforce Program (CWP): In accordance with Miami-Dade County Code §2-1701 as amended by County Ordinance No. 13-66, the minimum required Miami-Dade County wide CWP Goal will be applicable to this contract. The Contractor must submit a Workforce Plan to the Miami-Dade County Internal Services Department, Small Business Development Division through the Department within 15 days of notification of award of the Contract; the Contractor may utilize persons from any DTA's within the project boundaries to meet the workforce goal. The County will not enter into the contract until it receives the contractor's Workforce Plan and deems the Plan acceptable.

BACKGROUND

Under the direction of the PWWM, improvements are being made to enhance pedestrian safety and accessibility at some of the busiest intersections in Miami-Dade County.

Enhanced pavement marking for pedestrian crosswalks, wheelchair ramps, pedestrian signals, mast arm replacements, traffic signal installations, traffic signal relocations, improved traffic signal timing and new signs at many of the intersections are among the upgrades now in place. The changes are designed to better integrate motorist and pedestrian activity and to reduce the speed of traffic at intersections where pedestrians cross.

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If any additional information is needed, please call me at (305) 375-3547, or Alejandro Martinez-Esteve at (305) 375-2930.

JBP/jbp

Attachments (2)

C: Vivian Forhat-Diaz, ISD
Laurie Johnson, ISD
Bassam Moubayed, PWWM
Alejandro Martinez-Esteve, RA, LEED AP., CFM, PWWM
Jean Bernard Philippeaux, PWWM
Dianah Coakley, PWWM
Lisset Cabrera, 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.: **20130272-R**

*Reference corresponding project number when submitting a work order

Contract/Project Title: **Push-Button Contract for Traffic Signal Improvements (South)**

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

Estimated Cost: **457029** 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.
To be determined after Contract Award

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
Electrical	5	365
Traffic Stripes and Markings	5	365

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. The Contract also afford the ability to add and/or delete sites.

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: Analysis of factors contained in Section VI D of Implementing Order 3-22. PWWM suggests the following contract measure recommendation: **Trade Set-Aside: Traffic Stripes and Markings: Painted and/or Thermoplastic.**

Community Workforce Program (CWP): In accordance with Miami-Dade County Code §2-1701 as amended by County Ordinance No. 13-66, the minimum required Miami-Dade County wide CWP Goal will be applicable to this contract.

Date submitted to DBD: **07-28-14**

Contact Person: **Jean Bernard Philippeaux or Alejandro Martinez-Esteve**

Telephone No.: **305-375-3547**

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

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

From: Jean Bernard Philippeaux
Engineer 2
Public Works and Waste Management
Management Department

Date: Monday, July 28, 2014

Department: Public Works and Waste Management

Contract Type:

MCC 7360: Single Trade with Auxiliary work

Request for Price Quotation (RPQ) No.:

20130272-R

Re-submittal: Yes; Previous Review Committee (RC) Submittal Date: December 2, 2013 & April 29, 2014

No

Project Title:

Push-Button Contract for Traffic Signal Improvements (South)

Standard Industrial Code (SIC):

17-Construction – Special Trade Contractors

Estimated Project Cost:

\$457,029.53

Funding Source:

RIF

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

Method of Award: Line Item

RPQ No.: 20130272-R

RPQ Title: Push-Button Contract for Traffic Signal Improvements (South)

Scope of Work

- A. Work under this Contract includes furnishing of all supervision, labor, materials, tools, equipment and performing all operations required to perform traffic signal improvements and installations including any ancillary work. Traffic signalization upgrades includes the installation of mast arms, traffic controller assemblies, and milling and resurfacing. Contractor to furnish and install grounding electrodes, conduits, pull boxes, foundations, pedestrian signal heads with push buttons and signs, overhead signs, Internally Illuminated Street Name Signs, mounting hardware, loop assemblies, and signal cable. Additional work also includes installation of pedestrian ramps, ground mounted signs, pavement markings, construction of side walk, curb and gutter, installation of truncated dome, and removing existing signs and traffic signalization devices in conflict with the proposed scope of work.

Required Contractor's Certification:

A. Certificate of Competency Requirement:

1. 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:
 - a. Certificate of Competency from the County's Construction Trades Qualifying Board as an Electrical 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. Certification, as an electrical contractor provided by the State of Florida Electrical Contractors' Licensing Board, pursuant to the provisions of Section 489.511 of the Florida Statutes (F.S.).

B. Experience Requirement:

1. 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:
 - a. Providing a detailed description of completed projects, similar to the Project Scope of Work, in which the Bidder is currently engaged or has completed within the past ten years.
 - b. List and describe those projects performed for government clients, similar size private entities, and any work performed for the County. The description should identify for each project (1) the client, (2) description of work, (3) total dollar value of the contract, (4) contract duration, (5) customer contact person and phone number for reference, (6) statement or notation of whether Bidder is/was the prime contractor or subcontractor, and (7) the results of the project.

RPQ No.: 20130272-R

RPQ Title: Push-Button Contract for Traffic Signal Improvements (South)

C. Additional Contractor Requirements For Work With Traffic Control Devices

1. In addition to the license(s) required of Contractor, all personnel engaged in installing, modifying, repairing, removing or maintaining: roadway street lighting systems; traffic signalization; or any other electrical/electronic traffic control device in Miami-Dade County must:
 - a. Perform work under the direction of a Master Electrician that is present at the job site or able to respond within 2 hours of notification (4 hours for roadway street lighting systems).
 - b. Perform all work under the direct supervision of a Journeyman Electrician. For Traffic Signalization or Control Devices the Journeyman Electrician must be certified as an International Municipal Signal Association (IMSA) certified Traffic Signal Technician (TST) Level II or Level III. All work related at or pertaining to the controller must be performed by an IMSA certified TST Level II (Field).

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

RPQ No.: 20130272-R

RPQ Title: Push-Button Contract for Traffic Signal Improvements (South)

PWWM Areas for possible measures:

Traffic Stripes and Markings: Painted and/or Thermoplastic

PWWM Areas recommended for CSBE Subcontractor Goal:

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

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RPQ No.: 20130272-R

RPQ Title: Push-Button Contract for Traffic Signal Improvements (South)

Reason for Recommendation:

This is a single trade project; none of the primary trade related work (Electrical) can be subcontracted in accordance with the recommendation for award of a construction contract pursuant to the MCC/CICC 7360 plan requirements. 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 for CSBE participation. Ancillary work to be performed under this project includes all specialty trade construction trade categories listed under "Areas for possible measures."

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.

Comments:

This type of specialized work is not usually associated with 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.

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 Division's (SBD) Construction Manager in an effort to seek out additional opportunities for CSBEs. There are not specific sites identified for this project. Work orders will identify the location, description, and amount of work to be accomplished. Work orders will be issued subsequent to the Award of the Contract. Work orders will be subject to the requirements of the Community Workforce Program (CWP).

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) suggests the following contract measure recommendation: Trade Set-Aside #1: Traffic Stripes and Markings: Painted and/or Thermoplastic.

Concrete Work:

Additional work that initially appeared available for subcontracting was that related to the use of the concrete. However, after further research by staff it was noted that the industry performs their own concrete work utilizing skilled laborers. The items listed under the category concrete work are incidental to the scope of work to be performed and included on the Bid Form to facilitate payment to the contractor, should those items be needed to complete repairs and/or restoration as a result of damage during construction.

RPQ No.: 20130272-R

RPQ Title: Push-Button Contract for Traffic Signal Improvements (South)

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

None

Scope of Work History Summary – Subcontracting Opportunities:

Areas recommended for CSBE Trade Set-Aside (PWWM/SBD):

Traffic Stripes and Markings (Painted and/or Thermoplastic)

Areas used to meet subcontractor goal (Awarded Contractor):

Traffic Stripes and Markings (Painted and/or Thermoplastic)

Similar Projects previously submitted for SBD Action:

RPQ No. 20090269

RPQ No. 20100410

RPQ No. 20100375

RPQ No. 20120012

RPQ No. 20110150

RPQ No. 20120071

RPQ No. 20130272

CSBE Goal / Project No. / Amount achieved:

PWWM would have to confirm with the Compliance Monitor

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Traffic Signal Estimate Push Button Contract (South) 20130272-R				Location SIGNAL 3		Location SIGNAL 4		Summary of All Locations Engineer Estimate (E.E.)	
ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST	QUANTITY	COST	Qty	Eng. Est. Cost
102-74-2	Barricades (Temporary, Type III & B)	EADAY	\$ 5.40	20	\$ 108.00	20	\$ 108.00	40	\$ 216.00
102-74-1A	Barricades (Temporary, Types I, II, & VP)	EADAY	\$ 0.70	400	\$ 280.00	400	\$ 280.00	800	\$ 560.00
102-76	FLASHING ARROW BOARD (Temporary, Multicolor)	EADAY	\$ 38.00	15	\$ 570.00	15	\$ 570.00	30	\$ 1,140.00
102-77	HIGH INTENSITY FLASHING LIGHTS (TEMPORARY TYPE T)	EADAY	\$ 1.70	20	\$ 34.00	20	\$ 34.00	40	\$ 68.00
102-91A	PAVEMENT MARKING TEMPORARY (SKIP) (Any width) (Yellow or White) (Paint) (10' strips, 30' space)	L.F.	\$ 1.50	500	\$ 750.00	500	\$ 750.00	1,000	\$ 1,500.00
110-4-2H	REMOVAL AND DISPOSAL OF EXISTING CONCRETE SIDEWALK (up to 8" thick)	S.Y.	\$ 27.23	20	\$ 554.60	10	\$ 272.30	30	\$ 831.90
110-4-10C	REMOVAL AND DISPOSE EXISTING CURB & GUTTER (INCLUDING EXISTING PAVEMENT) (If payment for greater cuts will be paid proportionally)	L.F.	\$ 9.73	80	\$ 778.40		\$ -	80	\$ 778.40
327-70		S.Y.	\$ 9.33	1,000	\$ 9,330.00		\$ -	1,000	\$ 9,330.00
334-2-13-1	Hot Mix Asphalt, Traffic Co. SP-9.5	Tons	\$ 146.67	40	\$ 5,866.80		\$ -	40	\$ 5,866.80
520-2	CONCRETE CURB AND GUTTER (Any type, including base preparation)	L.F.	\$ 26.00	100	\$ 2,600.00		\$ -	100	\$ 2,600.00
522-1	CONCRETE SIDEWALK (4" Thick (restoration and new, Class I Concrete, 3000 P.S.I.) including pedestrian ramps and sidewalk curbs)	S.Y.	\$ 99.33	20	\$ 1,986.60	15	\$ 1,474.95	35	\$ 3,461.55
522-2(1)	CONCRETE SIDEWALK (6" THICK (includes driveways)	S.Y.	\$ 101.00	11	\$ 1,111.00		\$ -	11	\$ 1,111.00
527-2	DETECTABLE WARNING ON WALKING SURFACE	S.F.	\$ 30.00	32	\$ 960.00		\$ -	32	\$ 960.00
575-1-1	SOODING	S.Y.	\$ 7.00	20	\$ 140.00		\$ -	20	\$ 140.00
580-335	TREE TRIMMING	HRS	\$ 46.00		\$ -	10	\$ 450.00	10	\$ 450.00
620-1-1	GROUNDING ELECTRODE	L.F.	\$ 12.00	210	\$ 2,520.00	210	\$ 2,520.00	420	\$ 5,040.00
630-1-12	CONDUIT 2" PVC UNDER GROUND	L.F.	\$ 9.00	200	\$ 1,800.00	200	\$ 1,800.00	400	\$ 3,600.00
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.	\$ 17.00	400	\$ 6,800.00		\$ -	400	\$ 6,800.00
630-1-14	CONDUIT 2" PVC (UNDER GROUND DIRECTIONAL BORE)	L.F.	\$ 22.00		\$ -	200	\$ 4,400.00	200	\$ 4,400.00
630-1-16B	CONDUIT 2" PVC (Under bore 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.	\$ 4.00	300	\$ 1,200.00	100	\$ 400.00	400	\$ 1,600.00
632-7-1A	TRAFFIC CONTROL CABLE - (11-21 conductor)	L.F.	\$ 16.00	600	\$ 9,600.00	300	\$ 4,800.00	900	\$ 14,400.00
632-7-1B	TRAFFIC CONTROL CABLE - (4-7 conductor)	L.F.	\$ 7.00	1,200	\$ 8,400.00	1,200	\$ 8,400.00	2,400	\$ 16,800.00
635-1-11	PULL BOX, METER TYPE (Polymer)	AS.	\$ 523.00	20	\$ 10,460.00	4	\$ 2,092.00	24	\$ 12,552.00
639-1-12	ELECTRICAL POWER SERVICE, Furnish & Install, Overhead Meter Purched by Contractor From Power Company	EA	\$ 4,000.00	1	\$ 4,000.00	1	\$ 4,000.00	2	\$ 8,000.00
639-2-1	SERVICE WIRE (66 AWG WITH THW INSULATION) (THREE CONDUCTOR SET) (BLACK/WHITE AND GREEN)	EA	\$ 6.00	200	\$ 1,200.00	450	\$ 2,700.00	650	\$ 3,900.00
641-2-12	Weathered Concrete Poles (Furnish and Install) (Type P-11 Service Pole)	EA	\$ 1,130.00	1	\$ 1,130.00	1	\$ 1,130.00	2	\$ 2,260.00
646-1-11	ALUMINUM SIGNALS POLE (Furnish & Install) (Pedestal)	EA	\$ 1,030.00	4	\$ 4,120.00	1	\$ 1,030.00	5	\$ 5,150.00
647-11-32	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-12 (32' ARM)	AS.	\$ 13,493.00	1	\$ 13,493.00		\$ -	1	\$ 13,493.00
647-11-38	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-14 (38' ARM)	AS.	\$ 15,533.00		\$ -	1	\$ 15,533.00	1	\$ 15,533.00
647-11-42	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-17 (42' ARM)	AS.	\$ 19,387.00		\$ -	3	\$ 58,101.00	3	\$ 58,101.00
647-11-44	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-19 (44' ARM)	AS.	\$ 19,800.00	1	\$ 19,800.00		\$ -	1	\$ 19,800.00
647-11-46	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-25 (46' ARM)	AS.	\$ 20,207.00	2	\$ 40,414.00		\$ -	2	\$ 40,414.00
647-11-52	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-28 (52' ARM)	AS.	\$ 25,100.00	1	\$ 25,100.00		\$ -	1	\$ 25,100.00
647-11-56	MAST ARM COMBINATION, STANDARD DADE CO. CLASS DS-28 (56' ARM)	AS.	\$ 28,500.00	1	\$ 28,500.00		\$ -	1	\$ 28,500.00
650-51-313	TRAFFIC SIGNAL (Furnish and Install) (3 SECTION, 1 WAY) (Complete with horizontal mounting brackets and lamps) (LED)	AS.	\$ 1,957.00	4	\$ 7,828.00	4	\$ 7,828.00	8	\$ 15,656.00
650-51-413	TRAFFIC SIGNAL (Furnish and Install) (4 SECTION, 1 WAY) (Complete with horizontal mounting brackets and lamps) (LED)	AS.	\$ 1,317.00	2	\$ 2,634.00	2	\$ 2,634.00	4	\$ 5,268.00
650-51-513	TRAFFIC SIGNAL (Furnish and Install) (5 SECTION, 1 WAY) (Complete with horizontal mounting brackets and lamps) (LED)	AS.	\$ 1,660.00	2	\$ 3,320.00	2	\$ 3,320.00	4	\$ 6,640.00
653-101	PEDESTRIAN SIGNAL, 1-Way (LED Countdown)	AS.	\$ 910.00	8	\$ 7,280.00	8	\$ 7,280.00	16	\$ 14,560.00
659-112	SIGNAL HEAD AUXILIARIES (MOUNTING BRACKET, 2 WAY)	EA	\$ 267.00	4	\$ 1,068.00	1	\$ 267.00	5	\$ 1,335.00
660-1-109	LOOP VEHICLE DETECTOR/AMPLIFIER (RELAY OUTPUT - RACK MOUNTED TYPE 170 CABINET)	AS.	\$ 190.00	1	\$ 190.00	1	\$ 190.00	2	\$ 380.00
660-2-101	LOOP ASSEMBLY	AS.	\$ 1,133.00	4	\$ 4,532.00		\$ -	4	\$ 4,532.00
660-2-106	LOOP ASSEMBLY, F&I, Type F	AS.	\$ 1,333.00		\$ -	6	\$ 7,998.00	6	\$ 7,998.00
660-4-4A	LOOP LEAD IN CABLE (No. 14 A.W.G.)	L.F.	\$ 6.20	100	\$ 620.00	200	\$ 1,240.00	300	\$ 1,860.00
665-11	PEDESTRIAN DETECTOR (includes Push Button Sign R10-36)	EA	\$ 230.00	4	\$ 944.00	4	\$ 944.00	8	\$ 1,888.00
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.	\$ 4,833.00	1	\$ 4,833.00	1	\$ 4,833.00	2	\$ 9,666.00
699-1-1A	INTERNALLY ILLUMINATED STREET NAME SIGN (LED), (INCLUDING MOUNTING BRACKET)	AS.	\$ 1,533.00	4	\$ 6,132.00	4	\$ 6,132.00	8	\$ 12,264.00
700-20-11	SINGLE POST SIGN (Furnish & Install) (Less than 12)	AS.	\$ 290.00	2	\$ 580.00	2	\$ 580.00	4	\$ 1,160.00
700-20-10	SINGLE POST SIGN (relocate)	EA	\$ 227.00	2	\$ 454.00	2	\$ 454.00	4	\$ 908.00
700-46-01	REMOVAL OF SIGN AND POST SIGN PANEL INSTALLATION (Base arm, or sign wire mount, County furnish sign only, Contractor furnishes accessories, straps, cables, brackets, connectors, etc.)	EA	\$ 114.00	4	\$ 456.00	4	\$ 456.00	8	\$ 912.00
700-46-28B		EA	\$ 303.00	2	\$ 606.00	2	\$ 606.00	4	\$ 1,212.00
706-1-12	REFLECTIVE PAVEMENT MARKERS (CLASS B, MOUNTED OR DIRECTIONAL, ALL COLORS)	EA	\$ 16.00	16	\$ 256.00	16	\$ 256.00	32	\$ 512.00
711-11-121	THERMOPLASTIC (White) (Solid) (6')	L.F.	\$ 2.50	100	\$ 250.00	100	\$ 250.00	200	\$ 500.00
711-11-123	THERMOPLASTIC (White) (Solid) (12')	L.F.	\$ 3.50	192	\$ 672.00	192	\$ 672.00	384	\$ 1,344.00
711-11-125	THERMOPLASTIC (White) (Solid) (24')	L.F.	\$ 6.70	500	\$ 3,350.00	800	\$ 5,360.00	1,000	\$ 6,700.00
711-11-161	THERMOPLASTIC (White) (Dotted/Underline) (6')	L.F.	\$ 4.00	100	\$ 400.00		\$ -	100	\$ 400.00
711-11-170	THERMOPLASTIC (White) (Arrows)	EA	\$ 93.00	4	\$ 372.00	4	\$ 372.00	8	\$ 744.00
711-11-241	THERMOPLASTIC (Yellow) (Skip) (6')	L.F.	\$ 3.80	100	\$ 380.00		\$ -	100	\$ 380.00
711-11-251	THERMOPLASTIC (Yellow) (Dotted/Guideline) (6')	L.F.	\$ 4.15	100	\$ 415.00		\$ -	100	\$ 415.00
711-11-221	THERMOPLASTIC (Yellow) (Solid) (6')	L.F.	\$ 4.50	200	\$ 900.00	200	\$ 900.00	400	\$ 1,800.00
711-17	Removal of existing thermoplastic pavement markings	S.F.	\$ 13.00		\$ -	100	\$ 1,300.00	100	\$ 1,300.00
SUB TOTALS - \$				402,440.65					

ALLOWANCES

999-02	CONTINGENCY ALLOWANCE (% OF BASE ESTIMATE)	L.S.		10%	\$ 24,521.34	10%	\$ 15,722.73	10%	\$ 40,244.07
101-1	MOBILIZATION	L.S.	\$ 500.00	1	\$ 500.00	1	\$ 500.00	2	\$ 1,000.00
102-1	MAINTENANCE OF TRAFFIC	L.S.		2%	\$ 4,904.27	2%	\$ 3,144.55	2%	\$ 8,048.81
102-10A	OFF-DUTY LAW ENFORCEMENT OFFICER	L.S.	\$ 10,000.00	10%	\$ 1,000.00	20%	\$ 2,000.00	40%	\$ 4,000.00
999-0	ALLOWANCE-PERMITS	L.S.	\$ 5,000.00	10%	\$ 500.00	10%	\$ 500.00	0	\$ 1,000.00
800-6	FPL CONNECTION ALLOWANCE	L.S.	\$ 148.00	1	\$ 148.00	1	\$ 148.00	2	\$ 296.00

LOCATION TOTAL				\$	\$	\$	\$		
TOTAL PROJECT				\$	275,747.01	\$	179,242.62	\$	457,029.53
Design/Study	15%	68,554.43							
CEI	10%	45,702.95							
TOTAL PROJECT COST				\$	571,286.91				