

RECEIVED
DEPT. BUSINESS DEV.
2013 MAR - 6 AM 10:39

Date: March 7, 2013
To: Jack Osterholt, Director
Sustainability, Planning and
Economic Enhancement Department
Small Business Development Division



From: James Ferreira, P.E.
Engineer 2
Public Works and Waste Management

Subject: Notice of Construction Project:
Miscellaneous Construction Contracts (MCC) Program
Contract No:
MCC 7360 Plan - CICC 7360-0/08
Request for Price Quotation (RPQ) No. 20120162
Drainage Improvement Project for Multiple Sites

Formerly RPQ No. 20120106

RECOMMENDATION

Departmental Contract Measure Recommendation: No Measure
Engineer's Opinion of Probable Costs: \$410,531.72
Community Workforce Program (CWP): Applicable
Reviewed by Small Business Development's (SBD) Construction Manager: Yes

BACKGROUND

The PWWM solicited for bids under the MCC 7040 Plan-CICC 7040-0/07 on October 4, 2012 and received seven bids for RPQ No. 20120106 on December 3, 2012. However, the lowest bidders' bid is 15.44% over the estimated cost of the project. Therefore, it was in the County's best interest to reject all bids, cancel the Project No., and re-advertise under the subject RPQ No. It is PWWM's intent to solicit for bids under the MCC 7360 Plan in an effort to acquire additional, open competitive bids that are expected to be within the County's estimated cost for the project. The scope of work and cost estimate remains the same and the Community Workforce Program is applicable.

Drainage Improvements at the designated locations were initiated due to documented flooding in the residential and commercial areas located within the projects boundaries. Miami-Dade County Public Works personnel conducted wet and dry flood inspections and determined that severe flooding was occurring at these locations. It is the intent of this project to alleviate the flooding problems on the roadway areas that have an ineffective drainage infrastructure. The drainage improvements will consist of the construction of a storm drainage system which will include the installation of exfiltration trenches (French drain) along with drainage inlets in the public right-of-way.

If any additional information is needed, please call me at (305) 375-3267, or Frank Aira at (305) 375-2930.

JF/jf

Attachments (2)

C: Kelly Duncombe, RER/SBD
Ileana Quintana, RER/SBD
Bassam Moubayed, PWWM
Frank Aira, P.E., CFM, PWWM
Patricia Carbonell, 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.: 20120162

*Reference corresponding project number when submitting a work order

Contract/Project Title: Drainage Improvement Project for Multiple Sites

Description/Scope of Work: See Attached

Estimated Cost: 410532 **Funding Source:** Other (specify)

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

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP) See attachment

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

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
Supervisor	1	270
Foremen	1	270
Operator	1	270

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: PWWM suggests the following contract measure recommendation: No Measure. In addition, Geocode suggest the Work Order location is located within a Designated Target Area (DTA)

Date submitted to DBD: 3-7-13

Contact Person: James Ferreira or Frank Aira

Telephone No.: 305-375-3267

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.: 20120162

*Reference corresponding project number when submitting a work order

Contract/Project Title: Drainage Improvement Project for Multiple Sites

Description/Scope of Work: See Attached

Estimated Cost: 410532 **Funding Source:** Other (specify)

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

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP) See attachment

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

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
Laborers	6	270

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:**PWWM suggests the following contract measure recommendation: No Measure. In addition, Geocode suggest the Work Order location is located within a Designated Target Area (DTA).**

Date submitted to DBD:3-7-13

Contact Person:James Ferreira or Frank Aira

Telephone No.:305-375-3267

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

To: Jack Osterholt, Director
Regulatory and Economic Resources
Small Business Development Division

From: James Ferreira, P.E.
Engineer 2
Public Works and Waste
Management Department

Date: Thursday, March 7, 2013

Department: Public Works and Waste Management

Contract Type:

Single Trade – Drainage Improvement

Request for Price Quotation (RPQ) No.:

20120162

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

No

Project Title:

Drainage Improvement Project for Multiple Sites

Standard Industrial Code (SIC):

16-Heavy Construction

Estimated Project Cost:

\$410,531.72

Funding Source:

SWU

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

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

RPQ No.: 20120162

RPQ Title: Drainage Improvement Project for Multiple Sites

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 but is not limited to the construction and installation of drainage structures, French drains, miscellaneous drainage improvements, grading, sodding, and miscellaneous roadway restoration including construction of concrete curbs and gutters and sidewalks where needed in accordance with the construction plans and specifications provided.

Required Contractor's Certification:

At the time of Bid and pursuant to the requirements of Section 10-3 of the Code of Miami-Dade County, Florida and these Solicitation and Contract Documents, the bidder must hold a valid, current, and active:

Certificate of competency from the County's Construction Trades Qualifying Board as a General Engineering Contractor or as a Specialty Engineering Contractor, commensurate to the requirements of the Scope of Work, in one or more engineering crafts to include 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,

Certification, as a general contractor, or as a underground utility and excavation contractor, provided by the State of Florida Construction Industry Licensing Board, pursuant to the provisions of Section 489.115 of the Florida Statutes (F.S.).

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.

RPQ No.: 20120162

RPQ Title: Drainage Improvement Project for Multiple Sites

Traffic Stripes and Markings

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.

PWWM Areas for possible measures:

None

PWWM Areas recommended for CSBE participation:

None

Contract Measure Recommendation:

- No Measure
- Set-Aside:
 - Level I
 - Level II
 - Level III
- Trade Set-Aside(s)
- Aggregate Set-Aside
- CSBE Subcontractor Goal
- CWP: Applicable: Please see attached.
- DBE Subcontractor Goal

INTENTIONALLY LEFT BLANK

RPQ No.: 20120162

RPQ Title: Drainage Improvement Project for Multiple Sites

Reason for Recommendation:

This is a single trade project; none of the primary trade related work (Drainage) 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 no ancillary work required to complete this project which may be subcontracted for CSBE participation. 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.

Comments:

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

Contracts and Specifications staff completed its review of the scope of work for the subject RPQ. Public Works and Waste Management (PWWM) suggests the following contract measure recommendation: No Measure. The work location for the contract does not have identifiable opportunities for subcontracting. Items (Traffic Stripes and Markings & Concrete work) listed under the Miscellaneous Construction category are included in 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.

INTENTIONALLY LEFT BLANK

RPQ No.: 20120162

RPQ Title: Drainage Improvement Project for Multiple Sites

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

CICC 7360 RPQ No. 20100395-\$113,408.50

Scope of Work History Summary – Subcontracting Opportunities:

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

None

Areas used to meet subcontractor goal (Awarded Contractor):

None

Similar Projects previously submitted for Project Review and Analysis Process:

Minimal, since over ninety percent of the drainage work is processed utilizing the CICC 7040 Contract.

CSBE Goal / Project No. / Amount achieved:

Not Applicable

INTENTIONALLY LEFT BLANK

Address Entry Form

House Num	1654
ST Dir	NW
ST Name	75
ST Type	ST
Zip (opt)	<input type="text"/>
<input type="button" value="Find Address"/>	

Area Entry Form

ST Dir1	ST Name1	ST Type1
SW	100	AVE
ST Dir2	ST Name2	ST Type2
SW	30	ST
Zip (opt)	<input type="text"/>	<input type="button" value="Add to list"/>
Address List		
		Active
1	NW 32 AVE AND NW 69 ST	<input type="radio"/>
2	SW 117 AVE AND SW 185 ST	<input type="radio"/>
3	SW 100 AVE AND SW 30 ST	<input type="radio"/>
4		<input checked="" type="radio"/>
<input type="button" value="Clear List"/>		<input type="button" value="Geocode"/>

[Close]

Multiple Sites (4)

CONTRACT No.		CONTRACT AMOUNT: \$ 410,531.72			
Item No.	Description	Unit	Total Quantity	Unit Price	Total Price
CLEARING CONSTRUCTION SITES					
110-1-1B	Clearing and grubbing	L.S.	1	\$ 5,220.68	\$ 5,220.68
110-2	Clean existing structure (inlet or manhole - include removal and disposal of trash and deleterious materials)	E.A.	1	\$ 163.00	\$ 163.00
110-2-00	Clean existing pipe (include removal and disposal of trash and deleterious materials)	L.F.	0	\$ 6.50	\$ -
110-2-1-A	Clean existing exfiltration trench (include removal and disposal of trash and deleterious materials)	L.F.	0	\$ 9.73	\$ -
110-4	Removal and disposal of existing pavement	S.Y.	0	\$ 2.90	\$ -
110-40	Removal and disposal of concrete slab(Based on 6" thick slab, includes disposal of inlet throat, if required)	S.Y.	0	\$ 10.00	\$ -
MAINTENANCE OF TRAFFIC DEVICES					
102-72	Concrete barrier Class E (temporary, including relocation)	L.F.	0	\$ 19.30	\$ -
102-74-1	Barricades (temporary - Types I, II, VP and Drum)	E.A./day	6400	\$ 0.60	\$ 3,840.00
102-74-2	Barricades (Temporary, Type III, 6')	E.A./day	0	\$ 0.40	\$ -
102-76A	Advance Warning Arrow Panel	E.A./day	340	\$ 13.40	\$ 4,556.00
102-77	High intensity flashing (temporary - Type "B")	E.A./day	0	\$ 1.00	\$ -
102-91-1A	Pavement marking temporary (Solid) (Any width) (Yellow or White) (Paint)	L.F.	150	\$ 0.60	\$ 90.00
102-99	Variable message sign (temporary)	E.A./day	0	\$ 22.00	\$ -
660-2-101	Loop Assembly	ASSY.	0	\$ 606.0	\$ -
706-1-12	Reflective Pavement Markers (class B, mono or bi-directional , all colors)	E.A.	0	\$ 5.00	\$ -
711-11-121	Thermoplastic (White) (Solid) (6")	L.F.	0	\$ 0.90	\$ -
711-11-123	Thermoplastic (White) (Solid) (12")	L.F.	24	\$ 1.50	\$ 36.00
711-11-141	Thermoplastic (White) (Skip) (6")	L.F.	100	\$ 1.00	\$ 100.00
711-11-170	Thermoplastic (White) (Arrow)	E.A.	0	\$ 59.80	\$ -
711-11-221	Thermoplastic (Yellow) (Solid) (6")	L.F.	200	\$ 0.80	\$ 160.00
711-11-241	Thermoplastic (Yellow) (Skip) (6")	L.F.	0	\$ 0.70	\$ -
711-17	Removal of existing thermoplastic pavement markings	S.F.	0	\$ 2.13	\$ -
GENERAL CONSTRUCTION OPERATIONS					
104-10-3	Sediment barrier	L.F.	330	\$ 2.00	\$ 660.00
104-11A	Floating turbidity barrier	L.F.	0	\$ 10.00	\$ -
104-18	Inlet Protection System	E.A.	35	\$ 40.00	\$ 1,400.00
120-8A	Re-grade Existing Swale	S.Y.	0	\$ 4.40	\$ -
120-4	Subsoil Excavation	C.Y.	0	\$ 6.30	\$ -
120-10-2	Embankment (Borrow material from the contractor's own source, includes grading).	C.Y.	30	\$ 20.00	\$ 600.00
125-8	Backfill existing trench with select fill	C.Y.	0	\$ 6.00	\$ -
ASPHALTIC CONCRETE					
300-1-999	Bituminous Adjustment	L.S.	0	\$ 962.50	\$ -
327-7-01	Milling Existing Asphalt Pavement (up to 5,000 square yards) (1" average depth)	S.Y.	2275	\$ 2.50	\$ 5,687.50
327-70-02	Milling Existing Asphalt Pavement (up to 5,000 square yards) (2" average depth)	S.Y.	0	\$ 3.00	\$ -
327-70-03	Milling Existing Asphalt Pavement (5,000 to 15,000 square yards) (1" average depth)	S.Y.	0	\$ 1.90	\$ -
327-70-04	Milling Existing Asphalt Pavement (5,000 to 15,000 square yards) (2" average depth)	S.Y.	0	\$ 2.40	\$ -
334-2-13-1	Hot Mix Asphalt, Traffic C, SP-9.5	Ton	204	\$ 130.00	\$ 26,520.00
334-2-13-1A	Driveway Pavement - Asphalt	S.Y.	633	\$ 20.00	\$ 12,660.00
331-72-10A-HMA	Roadway Pavement Restoration (Replace and match existing base thickness and asphalt course with 8" minimum, primed Limerock Base and 1" thick of HMA, Asphalt Work Category 3)	S.Y.	1120	\$ 24.00	\$ 26,880.00
331-72-10B-HMA	Inlet pavement (includes 6" lime rock base and 1" thick Type S-1 Asphaltic Concrete)	S.Y.	220	\$ 23.00	\$ 5,060.00

CONTRACT No.		CONTRACT AMOUNT: \$ 410,531.72			
Item No.	Description	Unit	Total Quantity	Unit Price	Total Price
STRUCTURES					
425-1-1	Swale Inlet Type D-3 (36" Dia.) (< 10' Deep)	E.A.	6	\$ 1,600.00	\$ 9,600.00
425-1-2A	Swale Inlet Type D-3 (36" X 36") (<10' Deep)	E.A.	8	\$ 1,700.00	\$ 13,600.00
425-1-2B	Swale Inlet Type D-1 (17" X 27") (< 10' Deep)	E.A.	1	\$ 1,400.00	\$ 1,400.00
425-1-35	Curb Inlet Type P-5 (Any dimension) (Max. 15' Deep)	E.A.	0	\$ 1,574.00	\$ -
425-1-36	Curb Inlet Type P-6 (Any dimension) (Max. 15' Deep)	E.A.	0	\$ 2,418.40	\$ -
425-1-610B	Swale Inlet Type P-10 (Any dimension) (Max. 15' Deep)	E.A.	0	\$ 2,000.00	\$ -
425-1-902	Swale Inlet Type P-10M (Any dimension) (Max. 15' Deep)	E.A.	19	\$ 1,800.00	\$ 34,200.00
425-1-904	Swale Inlet Type J-10 (Any dimension) (Max. 15' Deep)	E.A.	0	\$ 2,804.00	\$ -
425-1-905	Swale Inlet Type J-10M (Any dimension) (Max. 15' Deep)	E.A.	0	\$ 2,209.50	\$ -
425-1-907A	Pollution Retardant Baffle/Weir (Any type) (Any Dimension)	E.A.	20	\$ 250.00	\$ 5,000.00
425-2-41	Manhole Type P-7T (Any dimension) (Max. 15' Deep)	E.A.	10	\$ 1,800.00	\$ 18,000.00
425-2-72	Manhole Type J-7T (Any dimension) (Max. 15' Deep)	E.A.	0	\$ 1,455.90	\$ -
425-2-11	Manhole Type USP 3-27.1 (36" Dia.) (Max. 15' Deep)	E.A.	0	\$ 1,259.00	\$ -
526-70-2C	Swale Blocks (Include excavation, saw cut edge of pavement, curb border, base & subbase preparation, and aggregates.)	S.Y.	0	\$ 76.00	\$ -
425-31	Pollution Control Structure (Two Chambers with Weir or Baffle) (Any Dimension) (Max. 15' Deep)	E.A.	0	\$ 8,000.00	\$ -
425-31B	Pollution Control Structure (Downstream Defender or approved equal)	E.A.	0	\$ 20,000.00	\$ -
425-79	Core and Tie	E.A.	1	\$ 500.00	\$ 500.00
425-82	Modify Structure-Cut to enlarge opening as needed in order to accommodate pipe due to utility conflict(s).	E.A.	4	\$ 320.00	\$ 1,280.00
425-110-2	Convert P-5 or P-6 Inlet to USF 5115 (or similar) Curb Inlet.	EA.	0	\$ 650.00	\$ -
430-171-123	15" diameter	L.F.	523	\$ 38.00	\$ 19,874.00
430-171-125	18" diameter	L.F.	28	\$ 42.00	\$ 1,176.00
430-171-129	24" diameter	L.F.	0	\$ 47.30	\$ -
430-36	36" diameter	L.F.	0	\$ 58.00	\$ -
430-42	42" diameter	L.F.	0	\$ 66.00	\$ -
430-48	48" diameter reinforced concrete pipe (Class II)	L.F.	0	\$ 67.30	\$ -
430-880-1830	Flap Gates (Pipe Diameters 18" to 30" or Equivalent)	E.A.	0	\$ 1,670.20	\$ -
430-880-3648	Flap Gates (Pipe Diameters 36" to 48" or Equivalent)	E.A.	0	\$ 2,667.00	\$ -
460-5-1830	Manatee Gate (Pipe Diameters 18" to 30" or Equivalent)	E.A.	0	\$ 1,700.00	\$ -
460-5-3648	Manatee Gate (Pipe Diameters 36" to 48" or Equivalent)	E.A.	0	\$ 3,750.00	\$ -
460-5-5484	Manatee Gate (Pipe Diameters 54" to 84" or Equivalent)	E.A.	0	\$ 3,762.50	\$ -
443-70-18-2	Exfiltration drain (18"diameter perforated pipe -Tr. Bot. El.(-)2)	L.F.	0	\$ 47.50	\$ -
443-70-3-2	French Drain (18" diameter pipe, trench depth 10 ft bls)	L.F.	1085	\$ 68.00	\$ 73,780.00
443-70-3-3	French Drain (18" diameter pipe, trench depth 15 ft bls)	L.F.	745	\$ 80.00	\$ 59,600.00
443-70-4-2	French Drain (24" diameter pipe, trench depth 10 ft bls)	L.F.	0	\$ 76.00	\$ -
443-70-4-3	French Drain (24" diameter pipe, trench depth 15 ft bls)	L.F.	0	\$ 82.00	\$ -
443-70-6-2	French Drain (36" diameter pipe, trench depth 10 ft bls)	L.F.	0	\$ 66.00	\$ -
443-70-6-3	French Drain (36" diameter pipe, trench depth 15 ft bls)	L.F.	0	\$ 88.00	\$ -

CONTRACT No.		CONTRACT AMOUNT: \$ 410,531.72			
Item No.	Description	Unit	Total Quantity	Unit Price	Total Price
MISCELLANEOUS CONSTRUCTION					
119-01	Driveway Restoration (specialty pavers, tile, etc)	S.Y.	0	\$ 72.50	\$ -
121-70-2	Flowable Fill	C.Y.	60	\$ 125.00	\$ 7,500.00
350-1-1A	Driveway Pavement - Concrete	S.Y.	117	\$ 40.00	\$ 4,680.00
400-1-1830	Straight Concrete Headwall (Pipe Diameters 18" to 36" or Equivalent)	E.A.	0	\$ 1,348.00	\$ -
400-1-3648	Straight Concrete Headwall (Pipe Diameters 36" to 48" or Equivalent)	E.A.	0	\$ 2,167.00	\$ -
400-1-5484	Straight Concrete Headwall (Pipe Diameters 54" to 84" or Equivalent)	E.A.	0	\$ 2,833.00	\$ -
400-1-15	Class I Concrete (miscellaneous, pipe, collars, plugs, etc.)	C.Y.	22	\$ 131.00	\$ 2,882.00
520-1-10	Concrete Curb and Gutter Type F, 6" Curb, 18" Gutter	L.F.	100	\$ 17.00	\$ 1,700.00
520-1-15A	Concrete Valley Gutter (Variable width) (Including base preparation)	L.F.	20	\$ 15.00	\$ 300.00
520-3	Concrete Gutter	L.F.	0	\$ 15.40	\$ -
522-1(1)	Concrete Sidewalk (4" thick)(Class I concrete, 3000 P.S.I.)(Including pedestrian ramps and sidewalk curbs)	S.Y.	28	\$ 38.00	\$ 1,064.00
527-2	Detectable Warning on Walking Surface	S.F.	0	\$ 31.30	\$ -
530-1	Riprap (Sand-Cement)	C.Y.	0	\$ 100.00	\$ -
530-1-1830	Straight Riprap Headwall (Sand-Cement) (Pipe Diameters 18" to 36" or Equivalent)	E.A.	0	\$ 1,933.00	\$ -
530-1-3648	Straight Riprap Headwall (Sand-Cement) (Pipe Diameters 36" to 48" or Equivalent)	E.A.	0	\$ 3,500.00	\$ -
530-1-5484	Straight Riprap Headwall (Sand-Cement) (Pipe Diameters 54" to 84" or Equivalent)	E.A.	0	\$ 3,737.00	\$ -
538-1	Guardrail (includes removal and restoration matching the existing)	L.F.	0	\$ 38.30	\$ -
575-2A	Sodding (match existing)	S.Y.	1742	\$ 4.00	\$ 6,968.00
580-332-1	Tree removal and replacement (including watering - less than 6" diameter)	E.A.	2	\$ 217.00	\$ 434.00
580-332-2	Tree removal and replacement (including watering - 6" - 12" diameter)	E.A.	0	\$ 297.40	\$ -
580-332-3	Tree removal and replacement (including watering - 12"-36" diameter)	E.A.	0	\$ 568.00	\$ -
SUBTOTAL					\$ 357,171.18
CONTINGENCY and ALLOWANCES					
999	Contingency Allowances	L.S.	1	\$ 35,717.12	\$ 35,717.12
101-2	Mobilization	L.S.	1	\$ 2,000.00	\$ 2,000.00
102-1M	Maintenance of traffic	L.S.	1	\$ 7,143.42	\$ 7,143.42
102-10A	Off-duty Law Enforcement Officer	L.S.	1	\$ 8,000.00	\$ 8,000.00
990	Public Works Permits	L.S.	1	\$ 500.00	\$ 500.00
TOTAL					\$ 410,531.72

Multiple Sites (4)

Sub-Trade	Est. Cost	% of Item to Base Bid	% of Total	Subs Available
Clearing Construction Sites	\$ 5,384	1	-	
Maintenance of Traffic Devices	\$ 8,782	2	-	
General Construction Operations	\$ 2,660	1	-	
Asphalt Work	\$ 76,808	19	19	
Drainage Structures & Pipes	\$ 238,010	58	58	
Miscellaneous Construction	\$ 25,528	6	6	
Contingency & Allowances	\$ 53,361	13	-	
Total	\$ 410,532	100	83	

