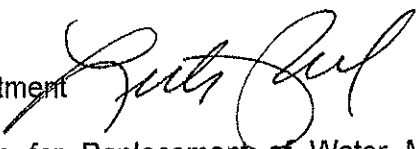


Memorandum



Date: February 18, 2016

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

From: Lester Sola, Director
Miami-Dade Water and Sewer Department 

Subject: Review Item: Design-Build Services for Replacement of Water Mains and Service Conversions in the City of North Miami Beach "Donut Hole" Service Area – Project No. DB15-WASD-01

It is recommended that the Small Business Development, division of the Internal Services Department, review the attached request for Small Business Enterprise (SBE) measures for Architectural and Engineering (A/E), Construction and Goods and Services (G/S) for the above subject project, in order to proceed with the advertisement and subsequent Design-Builder selection for this project.

The duration of the proposed Design-Build contract is five hundred and fifty-two (552) calendar days. The total maximum compensation for the Design-Build contract is \$9,521,546, which includes the following:

- \$ 7,942,549 estimated construction cost
- \$ 857,795 estimated engineering cost
- \$ 397,127 contingency fees for construction (5%)
- \$ 85,799 contingency fees for engineering (10%)
- \$ 238,276 permitting fees

The scope of services shall include, but is not limited to, surveying, geotechnical investigations, engineering, design, technical specifications, permitting, construction, testing and commissioning services, customer contact, negotiation and agreement execution for the installation of new 8-inch and 12-inch water mains, new water services and fire hydrants and restoration within private property for the installation of all required piping, fittings and accessories for the water service conversion.

The Project consists of the replacement of the existing undersized and deteriorated water mains and existing main loop closures in order to improve system pressure and provide fire flow protection and for water service conversions (transfer of services from the rear to the front of properties and replacement of certain existing old services in front of properties to meet new standard) in the City of North Miami Beach "Donut Hole" service area of Miami-Dade County, Florida. The Project location is the area bounded by N.W. 187 Street to the north, N.W. 179 Street to the south, N.W. 7 Avenue to the west and N.W. 2 Avenue to the east. The Project includes the following main elements:

Approximately 21,385 linear feet of 8-inch ductile iron water main pipe and fittings; 11,486 linear feet of 12-inch ductile iron water main pipe and fittings; 1,900 linear feet of 6-inch ductile iron water main pipe and fittings to include, but not be limited to the following: all required resilient seated gate valves, all required fire hydrant assemblies with guard posts; approximately 247 dual water services and approximately 14 single water services with approximately 506 water service conversions from rear of

property to front of property to include all required piping, fittings and accessories, testing and restoration within private property including providing safety and protection of homeowner's property; tapping connections of various sizes to existing mains including tapping sleeves and valves; in-line water main connections to existing mains of various sizes; air release valve and flushing valve outlet assemblies; polyethylene encasement for ductile iron pipe and fittings, if ordered by the engineer; sheeting and shoring ordered, left in place by the engineer; additional suitable backfill, if needed; furnish all materials, equipment and supplies necessary for cleaning, testing and disinfecting the mains, removal of existing asphalt pavement and sod; milling and resurfacing of existing asphalt pavement; removal, transport, salvage and legal disposal of demolition material; placing existing water mains out of service upon completion of work; traffic control; installation and restoration of pedestrian curb ramps and installation of detectable warning surfaces, temporary and permanent replacement of any utilities, pavement, sidewalk, curb and gutter, valley gutter, traffic circle roundabout, tree, landscaping, sod, pavement markings, and/or driveway damaged by construction and all other appurtenant and miscellaneous items and work for a complete and fully functional installation.

The Design-Builder shall design and construct all ancillary piping, tapping, temporary bypass and tie-in connections to facilitate successful construction and commissioning of the new 8-inch and 12-inch water mains without any interruption of service to the existing Miami-Dade Water and Sewer Department's customers. The design and construction services rendered by the Design-Builder shall result in a complete, functional and operable piping project with a standard design life.

The Design-Builder must complete the work by the following duration, which excludes the warranty period administration:

Substantial Completion on or before four hundred and ninety-two (492) calendar days after the date of Notice to Proceed, which requires placing into service all new water mains and water services in the public right-of-way and shall include all work associated with surveying, geotechnical investigations, engineering, design, technical specifications, permitting, construction, testing and commissioning services for the complete and fully operational installation of the new 8-inch and 12-inch water mains and water services.

Final Completion for water service conversions/Final Completion and Project Closeout on or before five hundred and fifty-two (552) calendar days after the date of Notice to Proceed, which requires:

1. Water Service Conversions (transfer of services from the rear to the front of properties) shall include all work associated with customer contact, negotiation and agreement execution, engineering, design, permitting, construction, testing, commissioning services and restoration within private property for the installation of all required piping, fittings and accessories for the water service conversions.
2. Final Completion and Project Closeout shall include obtaining acceptance by all applicable regulatory agencies, including WASD of all Work and Services under the Contract, as well as all remaining site restorations, record documents and all other remaining incomplete or unacceptable work items identified at or subsequent to Substantial Completion.

If the Design-Builder does not achieve Substantial Completion by the established Substantial Completion Contract Date, Liquidated Damages (LDs) will be assessed in the amount of \$2,500 per calendar day, which will be paid to the County by the Design-Builder. If the Design-Builder does not achieve Final Completion by the established Final Completion Contract Date, LDs will be assessed in the amount of \$1,000 per calendar day, which will be paid to the County by the Design-Builder. LDs will be cumulative if both the Substantial Completion Contract Date and the Final Completion Contract Date are exceeded.

All assessments of LDs to the Design-Builder may be adjustments to payments due to the Design-Builder.

Firms providing engineering services must be certified in the following technical categories and the respective percentages of the disciplines as indicated below:

Technical Category No.	Description	Total Percentage	CBE Percentage
6.01 Prime	WATER AND SANITARY SEWER SYSTEMS – WATER DISTRIBUTION AND SANITARY SEWAGE COLLECTION AND TRANSMISSION SYSTEMS	40%	
16.00 Prime	GENERAL CIVIL ENGINEERING	15%	
3.04 Other	HIGHWAY SYSTEMS – TRAFFIC ENGINEERING STUDIES	2%	2%
9.02 Other	SOILS, FOUNDATIONS AND MATERIALS TESTING – GEOTECHNICAL AND MATERIALS ENGINEERING SERVICES	2%	2%
10.05 Other	ENVIRONMENTAL ENGINEERING – CONTAMINATION ASSESSMENT AND MONITORING	1%	1%
12.00 Other	GENERAL MECHANICAL ENGINEERING	5%	
15.01 Other	SURVEYING AND MAPPING – LAND SURVEYING	15%	15%
15.03 Other	UNDERGROUND UTILITY LOCATION	5%	
17.00 Other	ENGINEERING CONSTRUCTION MANAGEMENT	15%	
	TOTAL	100%	20%

WASD is recommending a 20% SBE A/E, SBE Construction 16% and 0.25% SBE G/S (Maintenance of Traffic) participation goal. Attached are WASD's Departmental Input Worksheets and the Minimum Experience and Qualifications for your review and approval.

If you have any questions, please contact Patty Palomo, Chief, Intergovernmental Affairs Section at Patty.Palomo@miamidade.gov or (786) 552-8040.

Attachments

**MINIMUM QUALIFICATIONS AND EXPERIENCE
FOR LEAD CONSTRUCTORS AND LEAD DESIGNERS
PROJECT No. DB15-WASD-01**

MINIMUM EXPERIENCE AND QUALIFICATIONS

Proposed Design-Builder shall demonstrate its project team experience by presenting the qualifications and capabilities of each Design-Build team member firm, for projects completed, including projects that may be at least fifty percent (50%) complete prior to the required submittal date of this Request Design-Build Services Step 1 solicitation, that demonstrate related minimum project experience as indicated below:

1. Lead Constructors:
 - a. The Lead Construction firm performing the water main installation work must have constructed at least one (1) water main project(s) of similar size and complexity in an urban environment with a minimum 8-inch nominal diameter.
 - b. Experience of Lead Constructors and Pipe Installation Crews must submit history of past performance completing projects on schedule and to the satisfaction of the facility owner.

2. Lead Designers:
 - a. The Lead Designer firm performing the design of the water main installation must have designed at least one (1) water main installation project(s) in an urban environment with a minimum 8-inch nominal diameter.
 - b. The Lead Designer providing services under Architecture/Engineering technical certification categories 6.01 and 16.00 must demonstrate to have designed at least one (1) project(s) that were completed prior to the date of this solicitation that involved water and sewer main installation.

3. Industry experience for each of the following Key Personnel shall be clearly identified:
 - a. Design-Build Project Manager
 - b. Lead Designer- Design Manager
 - c. Lead Constructor - Construction Manager
 - d. Lead Civil Engineer
 - e. Pipe Installation Superintendent

4. Key Personnel must demonstrate experience with the type of work to be performed:
 - a. Proposers shall identify, in their Statement of Qualifications those State of Florida registered Professional Engineers who will sign and seal construction plans and specifications.
 - b. Key Personnel resumes shall indicate the individual's current firm association, their professional qualifications, a client reference with contact information, and their role and duration on each project for which they are being credited the related experience.

5. Additional Preferred Experience and Past Performance:
 - a. Experience in significant role on a Design-Build project, especially in a similar role as proposed for this Project.
 - b. Superior references with regard to meeting cost, schedule, and quality objectives on previous projects, and maintaining a positive client relationship.

The expertise must be met by a qualified individual(s) of the Prime firm and its Subconsultants. The experience must be demonstrated by direct or substantial involvement of the individual(s) in a supervisory capacity at the Project Manager level or above. The determination of the individual's qualifications and compliance with the experience and qualifications shall be at the sole discretion of the County. The Competitive Selection Committee (CSC) may negatively evaluate proposals from firms they determine have failed to meet the above experience and qualification(s).

Design-Builders safety record and past performance as reflected by a three (3) year average for the last three (3) previous full years (from the date of the solicitation) of the Experience Modification Rate (EMR) for the Design-Builder shall not exceed 1.10 for each firm.

Design-Builders shall provide EMR data for the previous three (3) full calendar years (2013, 2014, and 2015) on a firm-wide basis and shall be documented by a signed letter with contact information from the firm's insurance carrier, or the insurance carrier's agency representative. Higher qualification scores shall be provided by the CSC for a Design-Builder demonstrating an average EMR lower than other competing Design-Builder firms. Design-Builder shall also provide their OSHA forms 300 and 300A for the last three (3) full calendar years (2013, 2014, and 2015) indicating OSHA submitted accident data for evaluation by the CSC as to their frequency and severity.

DB15-WASD-01 - Rough Preliminary Estimate Proposal - SBD CM Review

Item No.	Description	\$ Amount	Percentage	SBE Construction	SBE Goods & Services
1		\$100,000.00	1.20%		
Pipeline Installation					
2		\$746,586.75	8.98%		8.98%
3		\$344,578.50	4.14%		
4		\$70,000.00	0.84%		0.84%
5		\$50,000.00	0.60%		
6		\$10,000.00	0.12%		
7		\$30,000.00	0.36%		0.36%
8		\$20,000.00	0.24%		
9		\$513,248.40	6.17%		6.17%
10		\$470,477.70	5.66%		
11		\$4,800.00	0.06%		0.06%
12		\$2,780.00	0.03%		
13		\$35,700.00	0.43%		0.43%
14		\$17,850.00	0.21%		
15		\$30,000.00	0.36%		0.36%
16		\$15,000.00	0.18%		
17		\$29,000.00	0.35%		
18		\$28,500.00	0.34%		0.34%
19		\$104,500.00	1.26%		
20		\$18,430.00	0.22%		0.22%
21		\$10,640.00	0.13%		
22		\$36,100.00	0.43%		0.43%
23		\$41,800.00	0.50%		
24	Total Pipeline Installation Items (2) through (23)	\$2,629,991.35	31.63%		
Water Services & Conversions					
25		\$3,600.00	0.04%		
26		\$4,800.00	0.06%		
27		\$80,600.00	0.97%		
28		\$107,625.00	1.29%		
29		\$1,800.00	0.02%		
30		\$2,400.00	0.03%		
31		\$21,450.00	0.26%		
32		\$21,000.00	0.25%		
33		\$10,692.68	0.13%		
34		\$2,024,000.00	24.34%	8%	
35	Total Water Services & Conversions Items (25) through (34)	\$2,277,967.68	27.40%		
Sidewalk and Pavements Repairs & Installations					
36		\$142,442.30	1.71%		

DB15-WASD-01 - Rough Preliminary Estimate Proposal - SBD CM Review

Item No.	Description	\$ Amount	Percentage	SBE Construction	SBE Goods & Services
37		\$572,832.26	6.89%	6.89%	
38		\$50,004.50	0.60%		
39		\$278,170.40	3.35%	3.35%	
40		\$179,200.00	2.16%		
41		\$40,000.00	0.48%		
42		\$477,360.22	5.74%		
43		\$763,776.35	9.19%		
44		\$161,074.41	1.94%		
	Total Sidewalk & Pavement Repairs & Installations				
45	Items (36) through (44)	\$2,664,860.44	32.05%		
Construction Contingency					
46		\$72,000.00	0.87%		
47		\$69,542.60	0.84%		
48		\$181,431.25	2.18%		
49		\$145,145.00	1.75%		
50		\$173,856.50	2.09%		
51	Total Contingency Items (46) through (50)	\$641,975.35	7.72%		
Subtotal		\$8,314,794.82	100.00%	18.23%	18.20%

Information from Memorandum

ITEM	DESIGN BUILD SUBTRADE	ESTIMATED COST CONSTRUCTION	% Construction Cost	% SBE
1	Water Main Construction	\$2,761,490.00	34.77%	
2	Water Services & Service Conversions	\$2,277,967.00	28.68%	8%
3	Sidewalk ADA Ramps Curbs and Gutter and Pavement Replacement	\$2,728,090.00	34.35%	8%
4	Mobilization/Maintenance of Traffic/Demobilization	\$175,000.00	2.20%	
	Total Construction Cost	\$7,942,549.00	100.00%	16.00%

Contingency Allowance 5%	\$397,127.00
Permitting 3%	\$238,276.00
Total Estimated Construction Cost Contingency and Permitting Fees	\$8,577,952.00

Total Estimate Construction Cost & Contingency	\$8,339,676.00
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ROUGH PRELIMINARY ESTIMATE PROPOSAL

DESIGN-BUILD CRITERIA

**North Miami Beach Cadastral Support Services
(AREA BOUNDED BY NW 187th ST, NW 179 ST, NW 7th Ave, and NW 2nd Ave/SR 7)
PROJECT No. EDP WS-S-197 PCTS No. 13937**

MUNICIPALITY: Miami Gardens

Portions of: Sec.01, Twp. 52 S., Rge. 41 & Sec.12, Twp. 52 S., Rge. 41

Item	Description	Qty	Units	\$/Units	Total
1.	For performing preparatory work and operations in mobilizing for beginning the work of the Project, including preparation and acceptance of M.O.T., but excluding materials and permit costs, both of which are paid under other payment items, and demobilization .		Aggregate Sum		\$100,000.00
Pipe Line Installation					
2	For selling and delivering to the Department 12-inch ductile iron pipe, fittings, and restrainers for water main.	11,486	Lin. Ft	\$65.00	\$746,586.75
3	For installing 12-inch ductile iron pipe, fittings and restrainers for water main.	11,486	Lin. Ft.	\$30.00	\$344,578.50
4	For selling and delivering to the Department 12-inch M.J. resilient seated in-line gate valve, complete with valve box, valve cover and riser pipe.	20	Each	\$3,500.00	\$70,000.00
5	For installing 12-inch M.J. resilient seated in-line gate valve, complete with valve box, valve cover and riser pipe.	20	Each	\$2,500.00	\$50,000.00
6	For installing 12-inch Pressure Sustaining Valve	1	Each	\$10,000.00	\$10,000.00
7	For selling and delivering to the Department new 8-inch turbine meter and meter boxes complete as shown in Standard details WS 2.10	1	Each	\$30,000.00	\$30,000.00
8	For installing new 8-inch turbine meter and meter boxes complete as shown in Standard details WS 2.10	1	Each	\$20,000.00	\$20,000.00
9	For selling and delivering to the Department 8-inch ductile iron pipe, fittings, and restrainers for water main.	21,385	Lin. Ft	\$24.00	\$513,248.40
10	For installing 8-inch ductile iron pipe, fittings and restrainers for water main.	21,385	Lin. Ft.	\$22.00	\$470,477.70
11	For selling and delivering to the Department 12-inch x 12-inch ductile iron tapping sleeve and 12-inch resilient seated in-line tapping valve for water main complete with valve box, valve cover and riser pipe.	1	Each	\$4,800.00	\$4,800.00

ROUGH PRELIMINARY ESTIMATE PROPOSAL

DESIGN-BUILD CRITERIA
North Miami Beach Cadastral Support Services
(AREA BOUNDED BY NW 187th ST, NW 179 ST, NW 7th Ave, and NW 2nd Ave/SR 7)
PROJECT No. EDP WS-S-197 PCTS No. 13937

MUNICIPALITY: Miami Gardens

Portions of: Sec.01, Twp. 52 S., Rge. 41 & Sec.12, Twp. 52 S., Rge. 41

Item	Description	Qty	Units	\$/Units	Total
12	For installing 12-inch x 12-inch ductile iron tapping sleeve and 12-inch resilient seated in-line tapping valve for water main complete with valve box, valve cover and riser pipe.	1	Each	\$2,780.00	\$2,780.00
13	For selling and delivering to the Department 8-inch M.J. resilient seated in-line gate valve, complete with valve box, valve cover, and riser pipe.	51	Each	\$700.00	\$35,700.00
14	For installing 8-inch M.J. resilient seated in-line gate valve, complete with valve box, valve cover, and riser pipe.	51	Each	\$350.00	\$17,850.00
15	For selling and delivering to the Department 36-inch x 12-inch ductile iron tapping sleeve and 12-inch resilient seated in-line tapping valve for water main complete with valve box, valve cover and riser pipe for the connection to an existing 36-inch water main AT NW 7 AVE & NW 191 ST	1	Each	\$30,000.00	\$30,000.00
16	For installing 36-inch x 12-inch ductile iron tapping sleeve and 12-inch resilient seated in-line tapping valve complete with valve box, valve cover and riser pipe for the connection to an existing 36-inch water main AT NW 7 AVE & NW 191 ST	1	Each	\$15,000.00	\$15,000.00
17	For constructing Air Release Valve Assemblies (A.R.V.'s), complete.	20	Each	\$1,450.00	\$29,000.00
18	For selling and delivering to the Department 6-inch ductile iron pipe, fittings and restrainers from water main to Fire Hydrant Assembly.	1,900	Lin. Ft	\$15.00	\$28,500.00
19	For installing 6-inch ductile iron pipe, fittings and restrainers from water main to Fire Hydrant Assembly.	1,900	Lin. Ft.	\$55.00	\$104,500.00
20	For selling and delivering to the Department 6-inch M.J. resilient seated gate valve, complete with valve box, valve cover, and riser pipe for Fire Hydrants.	38	Each	\$485.00	\$18,430.00
21	For installing 6-inch M.J. resilient seated gate valve, complete with valve box, valve cover, and riser pipe Fire Hydrant Assembly.	38	Each	\$280.00	\$10,640.00
22	Selling and delivering to the Department Fire Hydrant Assembly, complete per Standard detail WS 4.50	38	Each	\$950.00	\$36,100.00
23	Installing Fire Hydrant Assembly, complete per Standard detail WS 4.50	38	Each	\$1,100.00	\$41,800.00
24	The total Pipeline Installation Items (2) through (23)		SUBTOTAL 1 =		\$2,629,991.35

ROUGH PRELIMINARY ESTIMATE PROPOSAL

DESIGN-BUILD CRITERIA
North Miami Beach Cadastral Support Services
(AREA BOUNDED BY NW 187th ST, NW 179 ST, NW 7th Ave, and NW 2nd Ave/SR 7)
PROJECT No. EDP WS-S-197 PCTS No. 13937

MUNICIPALITY: Miami Gardens

Portions of: Sec.01, Twp. 52 S., Rge. 41 & Sec.12, Twp. 52 S., Rge. 41

Item	Description	Qty	Units	\$/Units	Total
Water Services & Conversions					
25	Furnishing and installing new 1-inch single short, water services and meter boxes complete as shown in Standard details WS 2.10	6	Each	\$600.00	\$3,600.00
26	Furnishing and installing new 1-inch single long water services and meter boxes complete as shown in Standard details WS 2.10	6	Each	\$800.00	\$4,800.00
27	Furnishing and installing new 1-inch double short water services and meter boxes, complete as shown in Standard details WS 2.12	124	Each	\$650.00	\$80,600.00
28	Furnishing and installing new 1-inch double long water services and meter boxes, complete as shown in Standard details WS 2.12	123	Each	\$875.00	\$107,625.00
29	Furnishing and installing new 1-inch single short, water services and meter boxes by trenchless technology, complete as shown in Standard details WS 2.10	1	Each	\$1,800.00	\$1,800.00
30	Furnishing and installing new 1-inch single long water services and meter boxes by trenchless technology, complete as shown in Standard details WS 2.10	1	Each	\$2,400.00	\$2,400.00
31	Furnishing and installing new 1-inch double short water services and meter boxes by trenchless technology, complete as shown in Standard details WS 2.12	11	Each	\$1,950.00	\$21,450.00
32	Furnishing and installing new 1-inch double long water services and meter boxes by trenchless technology, complete as shown in Standard details WS 2.12	8	Each	\$2,625.00	\$21,000.00
33	For cutting and plugging the existing alley water mains, of various diameters, up to 4-inches, as required, to isolate said mains from the old distribution system. (calculated as 2 each, per every 1200 ft of prop. 8-inch water main installed).	36	Each	\$300.00	\$10,692.68
34	Water service conversion from rear water services to front water services within the project's area. For relocation of water service for a house at a specific address to include all labor, materials and supplies for the water service relocation and site restoration work, as required, complete.	506	Each	\$4,000.00	\$2,024,000.00

ROUGH PRELIMINARY ESTIMATE PROPOSAL

DESIGN-BUILD CRITERIA
North Miami Beach Cadastral Support Services
(AREA BOUNDED BY NW 187th ST, NW 179 ST, NW 7th Ave, and NW 2nd Ave/SR 7)
PROJECT No. EDP WS-S-197 PCTS No. 13937

MUNICIPALITY: Miami Gardens

Portions of: Sec.01, Twp. 52 S., Rge. 41 & Sec.12, Twp. 52 S., Rge. 41

Item	Description	Qty	Units	\$/Units	Total
35	The total Water Services & Conversions Items (25) through (34)		SUBTOTAL 2 =		\$2,277,967.68
Sidewalk and Pavement Repairs & Installations					
36	FB51:B56 For constructing limerock base for Type "I" permanent paving repairs.	10,957	Square Yards	\$13.00	\$142,442.30
37	For constructing asphaltic concrete surface course for Type "I" temporary paving repairs.	47,736	Square Yards	\$12.00	\$572,832.26
38	For constructing asphaltic concrete surface course for Type "II" A 1.2 for State Roads NW 183 St & NW 2 Ave	5,000	Square Yards	\$10.00	\$50,004.50
39	Concrete sidewalk restoration (4" thick), (materials and labor). (applied to 50% of project).	69,543	Sq. Ft.	\$4.00	\$278,170.40
40	For installation of ADA ramps.	112	Per Ramp	\$1,600.00	\$179,200.00
41	For replacement of pavement markings damaged, removed or obliterated by the Contractor's operations.		Aggr. Sum		\$40,000.00
42	For milling existing asphalt pavement to an average depth of 1", complete. (two traffic lanes).	95,472	Square Yards	\$5.00	\$477,360.22
43	For resurfacing, using Type "V" pavement repairs (nominal one-inch thick machine-laid asphaltic concrete surface overlay). (two traffic lanes).	95,472	Square Yards	\$8.00	\$763,776.35
44	For furnishing and installing traffic control for the project, complete (2% of the sum of items (24), (35), (36) - (43), and (51).		Aggregate Sum		\$161,074.41
45	The total of Sidewalk and Pavement Repairs & Installations Items (36) through (44)		SUBTOTAL 3 =		\$2,664,860.43
Construction Contingency					
46	Concrete curb and gutter restoration.	3,600	Lin. Ft. (Contingent Item)	\$20.00	\$72,000.00
47	For furnishing and installing polyethylene encasement for D.I. pipe, fitting, or valve, if ordered by the Engineer.	34,771	Lin. Ft. (Contingent Item)	\$2.00	\$69,542.60
48	For sheeting and shoring ordered left in place by the Engineer.	9,072	Square Feet (Contingent Item)	\$20.00	\$181,431.25
49	For temporary sheeting and shoring for special trench conditions, if approved by the Engineer.	9,072	Square Feet (Contingent Item)	\$16.00	\$145,145.00

ROUGH PRELIMINARY ESTIMATE PROPOSAL

DESIGN-BUILD CRITERIA
North Miami Beach Cadastral Support Services
(AREA BOUNDED BY NW 187th ST, NW 179 ST, NW 7th Ave, and NW 2nd Ave/SR 7)
PROJECT No. EDP WS-S-197 PCTS No. 13937

MUNICIPALITY: Miami Gardens

Portions of. Sec.01, Twp. 52 S., Rge. 41 & Sec.12, Twp. 52 S., Rge. 41

Item	Description	Qty	Units	\$/Units	Total
50	For trench overcut for any size pipe in 1-foot depth increments.	34,771	Lin. Ft. (Contingent Item)	\$5.00	\$173,856.50
51	The total of Contingent Items (46) through (50)		SUBTOTAL 4 =		\$641,975.36
52	The total of item (1) plus SUBTOTAL 1 through SUBTOTAL 4.		SUBTOTAL 5 =		\$8,314,794.82
Dedicated Allowances					
53	For installation of electrical grounding for water service relocations, the aggregate sum of: (calculated at \$250.00 per home times 506 homes).		Dedicated Allowance		\$126,500.00
54	For the cost of providing 1 off-duty police officer as required (1 x \$42.00/hr x 8 hrs. x 217 days).		Dedicated Allowance		\$72,912.00
55	Allowance for the relocation of sub-meters. (0.5% of SUBTOTAL 5 shown above)		Dedicated Allowance		\$41,573.97
56	Removal and remediation of hazardous materials (0.5% of SUBTOTAL 5 shown above).		Dedicated Allowance		\$41,573.97
57	For cost of required permits, fees, inspections, impact fees, if authorized by the Engineer, the sum of 3% of SUBTOTAL 5 shown above (0.03 x SUBTOTAL 5, item 52).		Dedicated Allowance		\$249,443.84
58	For quantity adjustments, if ordered by the Engineer, the sum of 5% of SUBTOTAL 5 shown above (0.05 x SUBTOTAL 5, item 52).		Dedicated Allowance		\$415,739.74
59	For Unforeseen conditions and minor construction changes. The sum of 5% of SUBTOTAL 5 shown above (0.05 x SUBTOTAL 5, item 52).		Dedicated Allowance		\$415,739.74
60	For QA/QC Project Manual		Dedicated Allowance		\$2,500.00
61	The total of Dedicated Allowances items (53) through (60).		SUBTOTAL 6 =		\$1,365,983.27
62			CONSTRUCTION GRAND TOTAL =		\$9,680,778.09

- Notes:**
- 1) Costs for replacement of damaged grass, curb ramps, detectable warning surfaces & traffic loop detector assemblies, is included in pipe installation and connection costs.
 - 2) Costs for removal and replacement of trees, is included in pipe installation and connection costs.
 - 3) Items for selling and delivering of pipe and fittings, include restraint in fittings and appurtenances, as required by the project.
 - 4) Items for installing pipe and fittings, include restraint in fittings and appurtenances, as required by the project.
 - 5) This preliminary opinion of probable cost is based on preliminary information provided by the Department. Actual estimate may change significantly during the Design Phase in order to reflect actual field and unknown subsoil conditions, potential utility conflicts, relocations, and additional permit requirements.

ROUGH PRELIMINARY ESTIMATE PROPOSAL

DESIGN-BUILD CRITERIA
North Miami Beach Cadastral Support Services
(AREA BOUNDED BYNW 187th ST, NW 179 ST, NW 7th Ave, and NW 2nd Ave/SR 7)
PROJECT No. EDP WS-S-197 PCTS No. 13937

MUNICIPALITY: Miami Gardens

Portions of: Sec.01, Twp. 52 S., Rge. 41 & Sec.12, Twp. 52 S., Rge. 41

Item	Description	Qty	Units	\$/Units	Total
Engineering Design Costs					
1)	Engineering (7% of CONSTRUCTION GRAND TOTAL) =				\$677,654.47
2)	Design Contingency. 10% of Item 1).				\$67,765.45
	TOTAL Engineering =				\$745,419.91
	CONTRACT AMOUNT : SUBTOTAL 3 =				\$10,426,198.00
ER BUDGETARY ESTIMATE FOR THIS PROJECT					
1)	WASD STAFF- Construction Management (3% of CONTRACT AMOUNT) =				\$312,785.94
2)	WASD STAFF- Engineering (1% of CONTRACT AMOUNT) =				\$104,261.98
	SUB-TOTAL DIRECT COSTS =				\$417,047.92
4)	Overall Project Contingency (15% of CONTRACT AMOUNT) =				\$1,563,929.70
5)	Stores overhead charge / contractor selection (9.4% of CONTRACT AMOUNT) =				\$980,062.61
6)	Asset Retirement Costs (5% of CONTRACT AMOUNT) =				\$521,309.90
7)	Legal Costs (0.5% of CONTRACT AMOUNT) =				\$52,130.99
8)	SBD / CWF fee (0.44% of CONTRACT AMOUNT) =				\$45,875.27
9)	IG (Inspector General) fee (0.25% of CONTRACT AMOUNT) =				\$26,065.50
	SUB-TOTAL INDIRECT COSTS =				\$3,189,373.97
10)	Department Overhead (10.6% of (Direct plus Indirect Costs)) =				\$382,280.72
11)	Project Administration with Contingency (Total of Item (1) through (10)) =				\$3,988,702.61
	TOTAL PROJECT BUDGET ESTIMATE =				\$14,414,900.61