NORTH MIAMI
FLORIDA
776 N.E. 125 Street, North Miami, Florida 33161

Council Report

To: The Honorable Mayor and Council Members

From: Wisler Pierre-Louis, P.E., Interim Public Works Director

Date: June 24, 2014

RE: **A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF NORTH MIAMI, FLORIDA, AUTHORIZING THE CITY MANAGER AND CITY ATTORNEY TO NEGOTIATE AND EXECUTE AN AGREEMENT BETWEEN THE CITY OF NORTH MIAMI AND R.J. BEHAR & COMPANY, INC., AS THE CONSULTANT FOR THE PROVISION OF CIVIL ENGINEERING SERVICES REQUIRED FOR THE WATERLINE DESIGN AND CONSTRUCTION PROJECT ALONG NORTHEAST 16TH AVENUE, NORTHEAST 146TH STREET, AND NORTHEAST 18TH AVENUE, IN ACCORDANCE WITH REQUEST FOR QUALIFICATIONS NO. 38-09-10 CONTINUING PROFESSIONAL ARCHITECTURAL AND ENGINEERING SERVICES, IN THE AMOUNT NOT EXCEED ONE HUNDRED SEVENTEEN THOUSAND FIVE HUNDRED EIGHTY SEVEN DOLLARS AND THIRTY-SEVEN CENTS ($117,587.37); PROVIDING FOR AN EFFECTIVE DATE AND FOR ALL OTHER PURPOSES.**

RECOMMENDATION

Staff is requesting that the Mayor and City Council, hereby authorize the City Manager and City Attorney to negotiate and execute an agreement between the City of North Miami and R.J. Behar & Company, Inc., as the Consultant for the provision of Civil Engineering Services required for the Waterline Design and Construction Project along Northeast 16TH Avenue, Northeast 146TH Street and Northeast 18TH Avenue, in accordance with Request for Qualifications No. 38-09-10 Continuing Professional Architectural and Engineering Services, in the amount not exceed One Hundred Seventeen Thousand Five Hundred Eighty Seven Dollars and thirty-seven cents ($117,587.37).

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BACKGROUND

On September 16, 2009, the City entered into an agreement with Hazen and Sawyer, P.C., to provide engineering consulting services for the upgrades to the City's water treatment plant at Sunkist Grove. The scope of work included a work order to perform water distribution system modeling. In December 2011, Hazen and Sawyer delivered a technical memorandum to the City entitled, "Water Distribution System and Storage System Evaluation". The purposes of the *Water Distribution System and Storage System Evaluation* were to review water distribution system performance and to identify potential pumping, distribution, and storage system capital improvements which may be necessary to meet the near-term (i.e., 2012) and long-term (i.e., 2025) needs of the North Miami service area. The evaluation considered such issues as age of the existing infrastructure, growth, re-development of existing areas to higher densities, water age, fire flow, and estimated project costs (i.e., construction costs plus estimated costs for engineering and surveying services). The general planning area for the evaluation consisted of the City of North Miami and neighboring areas served by the City.

Based upon projected population growth and development/redevelopment trends through 2025, the hydraulic modeling results indicated that areas of lower pressure are anticipated in the system. The model was used to identify near-term (i.e., 2011 to 2015) and long-term (2025) improvements to ensure adequate capacity.

The following criteria were used to develop improvements:

1. No pipe shall have a pressure of less than 45 psi during peak hour operating conditions.
2. No pipe section shall have a hydrant flow of less than 500 gpm at a residual pressure of 25 psi under fire flow conditions.
3. No pipe section shall have a pressure less than 30 psi with a fire flow condition of 3,500 gpm for 4 hours.
4. No pipe shall have a water age of more than 72 hours.

The options used to develop alternatives were:

1. High service pump upgrades to increase pressure from the plant.
2. Distribution storage and pumping improvements to improve pressure in a local area of system.
3. Pipe improvements to eliminate "bottlenecks" in the system causing low pressure areas.

4. Operation of the interconnections the City has with other local utilities.

Hazen and Sawyer provided a list of recommended near-term improvements that are needed to resolve identified peak hour/fire (ISO 500 gpm and 3,500 gpm, 4 hours) flow and water age issues (greater than 72 hours), respectfully. It should be noted that the near-term improvements include opening all interconnects with MDWASD. The results of the water distribution system evaluation indicated that both near-term and long-term improvements will be required to ensure that the City of North Miami continues to provide safe, high-quality potable water to its residents. Near-term improvements are those improvements that will address current deficiencies in the existing system and are recommended for implementation by year 2015. A consultant is needed to provide the services required to implement the near-term improvements.

On June 3, 2010, the City advertised Request for Qualifications ("RFQ"), #38-09-10, Continuing Professional Architectural & Engineering Services for the purpose of retaining a pool of experienced, licensed and insured architectural and engineering firms to provide on a continuing as-needed, when needed basis, the following areas of specialized services: Architecture, Landscape Architecture, Civil Engineering, Planning and Urban Design, Traffic Engineering and Transportation Consulting, and Water Resource/Water Supply Engineering Services.

Staff recommends selection of R.J. Behar & Company, Inc. as the next available vendor on the continuing list to provide Civil Engineering Services required for the waterline design and construction project.

FUNDING SOURCE

Funding for this service is through the City of North Miami City Water Fire Flow Demand Funds as identified in Section 7-98 of the City Code.

ATTACHMENT(S)

Resolution
Proposal
Bid Tabulation

RESOLUTION NO. _____

A RESOLUTION OF THE VICE MAYOR AS ACTING MAYOR AND CITY COUNCIL OF THE CITY OF NORTH MIAMI, FLORIDA, AUTHORIZING THE CITY MANAGER AND CITY ATTORNEY TO NEGOTIATE AND EXECUTE AN AGREEMENT BETWEEN THE CITY OF NORTH MIAMI AND R.J. BEHAR & COMPANY, INC., AS THE CONSULTANT FOR THE PROVISION OF CIVIL ENGINEERING SERVICES REQUIRED FOR THE WATERLINE DESIGN AND CONSTRUCTION PROJECT ALONG NORTHEAST 16TH AVENUE, NORTHEAST 146TH STREET AND NORTHEAST 18TH AVENUE, IN ACCORDANCE WITH REQUEST FOR QUALIFICATIONS NO. 38-09-10 CONTINUING PROFESSIONAL ARCHITECTURAL AND ENGINEERING SERVICES, IN THE AMOUNT NOT EXCEED ONE HUNDRED SEVENTEEN THOUSAND FIVE HUNDRED EIGHTY-SEVEN DOLLARS AND THIRTY-SEVEN CENTS ($117,587.37); PROVIDING FOR AN EFFECTIVE DATE AND FOR ALL OTHER PURPOSES.

WHEREAS, on June 3, 2010, the City of North Miami ("City") advertised ***Request for Qualifications # 38-09-10, Continuing Professional Architectural & Engineering Services*** ("RFQ"), for the purpose of retaining a pool of experienced, licensed and insured architectural and engineering firms to provide on a continuing as-needed, when needed basis, the following areas of specialized services: Architecture, Landscape Architecture, Civil Engineering, Planning and Urban Design, Traffic Engineering and Transportation Consulting, and Water Resource/Water Supply Engineering Services; and

WHEREAS, the RFQ was undertaken in accordance with Florida's Consultants' Competitive Negotiation Act, under Section 287.055, Florida Statutes; and

WHEREAS, in response to the RFQ, R.J. Behar & Company, Inc. ("Consultant") submitted its sealed qualifications for the provision of professional Civil Engineering Services, and was subsequently selected by City administration as having those qualifications and references most advantageous to the City; and

WHEREAS, on September 15, 2010, the Mayor and City Council passed and adopted Resolution No. 2010-88, approving the selection of Consultant for Civil Engineering Services on a continuing contractual basis; and

WHEREAS, the City is responsible for the creation, repair and maintenance of its water and sewer systems and most importantly, bound to maintain adequate levels of water and sewer services to meet the increasing demand of all its residents; and

WHEREAS, to ensure adequate and proper services, the City conducted an evaluation of its water distribution system to examine and identify potential pumping, distribution, and storage system capital improvements necessary to meet the near-term and long-term needs of the City's water service area ("Evaluation"); and

WHEREAS, the conclusions reached in the Evaluation revealed water system improvements which are needed immediately in order to meet identified peak hour/fire flow and water age measures; and

WHEREAS, to implement the desired water system improvements, the City must obtain professional Civil Engineering Services for the proposed project consisting of the design of a waterline along Northeast 16th Avenue, between Northeast 143rd Street and Northeast 146th Street; and along Northeast 146th Street, from Northeast 16th Avenue to Northeast 18th Avenue; and along Northeast 18th Avenue, between Northeast 146th Street to Northeast 149th Street; including preliminary design phase, design submittal, construction bid and award support services (collectively referred to as "Services"); and

WHEREAS, the City administration respectfully requests that the Vice Mayor as Acting Mayor and City Council authorize the City Manager and City Attorney to negotiate and execute an agreement to expeditiously obtain Services for the proposed waterline project, in furtherance of the public's health, safety and welfare.

NOW THEREFORE, BE IT RESOLVED BY THE VICE MAYOR AS ACTING MAYOR AND CITY COUNCIL OF THE CITY OF NORTH MIAMI, FLORIDA:

Section 1. **Authority of City Manager and City Attorney.** The Vice Mayor as Acting Mayor and City Council of the City of North Miami, Florida, hereby authorize the City Manager and City Attorney to negotiate and execute an agreement between the City of North Miami and R.J. Behar & Company, Inc., as the Consultant for the provision of Civil Engineering Services required for the Waterline Design and Construction Project along Northeast 16th Avenue, Northeast 146th Street, and Northeast 18th Avenue, in accordance with Request for Qualifications No. 38-09-10 Continuing Professional Architectural and Engineering Services, in

the amount not exceed One Hundred Seventeen Thousand Five Hundred Eighty-Seven Dollars and Thirty-Seven Cents ($117,587.37).

Section 2. **Effective Date.** This Resolution shall become effective immediately upon adoption.

PASSED AND ADOPTED by a _____ vote of the Vice Mayor as Acting Mayor and City Council of the City of North Miami, Florida, this _____ day of June, 2014.

_____
PHILIPPE BIEN-AIME
VICE MAYOR AS ACTING MAYOR

ATTEST:

_____
MICHAEL A. ETIENNE, ESQ.
CITY CLERK

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY:

_____
REGINE M. MONESTIME
CITY ATTORNEY

SPONSORED BY: CITY ADMINISTRATION

Moved by: _____

Seconded by: _____

Vote:

Vice Mayor as Acting Mayor Philippe Bien-Aime	_____ (Yes)	_____ (No)
Councilperson Scott Galvin	_____ (Yes)	_____ (No)
Councilperson Carol Keys, Esq.	_____ (Yes)	_____ (No)
Councilperson Marie Erlande Steril	_____ (Yes)	_____ (No)

R.J.Behar & Company, Inc.
Engineers • Planners

CITY OF NORTH MIAMI WORK ORDER PROPOSAL FOR WATERLINE DESIGN ALONG NE 16 AVENUE, NE 146 STREET, AND NE 18 AVENUE

R.J. Behar & Company, Inc. (RJ Behar) proposes to provide engineering and services for the design of a water line in the City of North Miami. These services will be provided in accordance with RJ Behar's Professional Services Agreement with the City of North Miami, for RFQ # 38-09-10 Continuing Architectural & Engineering Services – City Wide, dated September 15, 2010.

PROJECT INTRDUCTION:

The City conducted an evaluation of North Miami's Water Distribution System to examine and identify potential pumping, distribution, and storage system capital improvements which may be necessary to meet the near-term and long-term needs of the North Miami service area. The findings of that evaluation are published in the Technical Memorandum for North Miami System Improvements, dated August of 2012. The proposed improvements described in this proposal are needed "Immediately" to meet identified peak hour/fire flow and water age criteria.

PROJECT DESCRIPTION:

The project consists of Design of a waterline along NE 16 Avenue between NE 143 Street and NE 146 Street and along NE 146 Street from NE 16 Avenue to NE 18 Avenue and along NE 18 Avenue between NE 146 Street to NE 149 Street approximately 3,500 linear feet. Services will also include Post Design Support (Construction Assistance), Survey, subterranean utility exploration and Geotechnical survey.

I. Preliminary Design Phase
This phase includes; attending kick-off meeting and prepare draft meeting minutes, conduct site visit and assessment, conduct data collection and requesting and receiving the site survey. The geotechnical report will be produced as during this phase. Additionally RJ Behar will conduct utility coordination by requesting design ticket, obtain as-builts from utilities, etc.
RJ Behar will also coordinate activities of project team and sub-consultant's.

II. 30% Design Submittal
This phase will include the development of the waterline's horizontal alignment (plan view-baselines 100' intervals) and profile elevation of top of pipe and finish grade every 100'. It will also include; pavement restoration details, identify utility conflicts, show existing and proposed valves types and locations as well as existing and proposed water services & sewer laterals, and determine the locations of tie-ins to existing system, preliminary MOT plans in adherence with the City's and the County's requirements and prepared by certified staff, as well as cover

sheet with table of contents and standard details. During this phase we will identify detailed permitting requirements and determine schedule for permit applications and estimated time for permit procurement, and develop preliminary estimates of probable cost and conduct pre-application coordination meetings with the permitting agencies.
We will also attend a submittal review meeting and prepare meeting minutes, RJ Behar will provide 4 sets of hard copies 30% plans, and (2) electronic copies-one AutoCAD & one PDF, 1 set hard copy of survey and 2 electronic copies (- one PDF and one AutoCAD.

III. 90% Design Submittal
This phase includes; incorporating comments from 30% submittal, revised and/or final alignment (horizontal and vertical drawings), cover sheet with table of contents, standard details, plan & profiles, and construction schedule. Completed permit applications will be submitted to the City for review as well as updated estimate of probable cost. RJ Behar will attend 1 submittal review meeting and prepare draft meeting minutes. Deliverables for this phase will be 4 sets of hard copies 90% plans, and (2) electronic copies-one AutoCAD & one PDF. Complete bid package per City standards, will include the relevant front-end documents, technical specifications, special project procedures, and sequence of construction.
RJ Behar will prepare permit packages and obtain applicable signatures once 90% dry-run submittal has been reviewed and approved and respond to any RFI's the agencies may have. Permitting package will include (4) copies of the revised 90% drawings and specs signed and sealed, MOT plans, required documentation to support permit request, completed permit applications for each agency signed and sealed, tracking sheet showing submittal dates for each application and approval or comments from the corresponding agency and incorporate revision requested by permitting agencies. We will also provide one electronic copy of soft dig results in matrix format.

IV. 100% Design Submittal
This phase will includes incorporating comments from the 90% submittal review and permitting agencies review, all permits issued by appropriate agencies (pdf & hard copy), final construction schedule, final estimate of probable cost. The bid package will contain 4 sets of approved 100% construction drawings and master specifications book, a CD with 100% construction drawings and master specifications book.

V. Bid and Award support
RJ Behar will attend 1 pre-bid meeting, present the project and prepare draft meeting minutes, prepare bid tabulation sheet comparing unit prices for the three lowest bidders, check references of three lowest bidders, and make a recommendation in writing to the City to award the contract to the lowest responsive and responsible bidder.

VI. Construction assistance

RJ Behar will attend 1 pre-construction meeting, respond to RFI's, review shop drawings, perform plan revisions as needed during construction , attend progress review meetings, review testing records and conduct field observations of the work as necessary to certify and close permits as required by jurisdictional agencies having review the contractor's pay requisition. RJ Behar will certify project based on observations during construction and review of as-built prepare by Registered Professional Surveyor and provided by the Contractor.

Survey, Subterranean utility exploration and Geotechnical proposals are attached for the City's review.

RJ Behar proposes to complete the services described above for a Lump Sum fee of $117,587.37. A fee break-down is attached for the City's review.

FEE PROPOSAL SUMMARY
R.J. BEHAR & COMPANY
PROJECT DESCRIPTION: WATERLINE DESIGN ALONG NE 16 AVE, NE 146 STREET, AND NE 18 AVE.

ACTIVITY	PROJECT MANAGER		SENIOR ENGINEER		DESIGN ENGINEER		CADD TECHNICIAN		MANHOURS BY ACTIVITY	TOTAL COST BY ACTIVITY
	MAN HOURS	$ 170.00 HOURLY RATE	MAN HOURS	$ 144.00 HOURLY RATE	MAN HOURS	$ 101.00 HOURLY RATE	MAN HOURS	$ 75.00 HOURLY RATE		
1.1 Site Visit and Assessment	1	$ 170.00	1	$ 144.00	3	$ 303.00	1	$ 75.00	6	$ 692.00
1.2 Data Collection	1	$ 170.00	1	$ 144.00	4	$ 404.00	2	$ 150.00	8	$ 868.00
1.3 Utility Conflicts Details	6	$ 1,020.00	6	$ 864.00	30	$ 3,030.00	18	$ 1,350.00	60	$ 6,264.00
1.4 Utility Coordination	1	$ 170.00	1	$ 144.00	6	$ 606.00	4	$ 300.00	12	$ 1,220.00
1.5 General Notes Sheet	3	$ 510.00	3	$ 432.00	16	$ 1,616.00	10	$ 750.00	32	$ 3,308.00
1.6 Waterline Plan and Profile Sheets	20	$ 3,400.00	20	$ 2,880.00	102	$ 10,302.00	62	$ 4,650.00	204	$ 21,232.00
1.7 Waterline Connection Details	6	$ 1,020.00	6	$ 864.00	32	$ 3,232.00	20	$ 1,500.00	64	$ 6,616.00
1.8 Specifications	3	$ 510.00	5	$ 720.00	17	$ 1,717.00	9	$ 675.00	34	$ 3,622.00
1.9 Estimate of Probable Cost	2	$ 340.00	4	$ 576.00	12	$ 1,212.00	6	$ 450.00	24	$ 2,578.00
1.10 Maintenance of Traffic	7	$ 1,190.00	11	$ 1,584.00	36	$ 3,636.00	18	$ 1,350.00	72	$ 7,760.00
1.11 Sequence Of Construction	2	$ 340.00	4	$ 576.00	12	$ 1,212.00	6	$ 450.00	24	$ 2,578.00
1.12 Construction Duration Estimate	1	$ 170.00	1	$ 144.00	4	$ 404.00	2	$ 150.00	8	$ 868.00
1.13 Coordination Meetings	2	$ 340.00	2	$ 288.00	8	$ 808.00	4	$ 300.00	16	$ 1,736.00
1.14 Permitting	4	$ 680.00	6	$ 864.00	20	$ 2,020.00	10	$ 750.00	40	$ 4,314.00
1.15 Bid and Award Support	1	$ 170.00	2	$ 288.00	6	$ 606.00	3	$ 225.00	12	$ 1,289.00
1.16 Construction assistance	37	$ 6,290.00	28	$ 4,032.00	92	$ 9,292.00	27	$ 2,025.00	184	$ 21,639.00
TOTAL	97	$ 16,490.00	101	$ 14,544.00	400	$ 40,400.00	202	$ 15,150.00	800	$ 86,584.00

LABOR FEE	$ 86,584.00
DIRECT REIMBURSABLES:	$ 1,000.00
Survey	$ 17,500.00
Utility Exploration (Soft Dig)	$ 7,500.00
Geotechnical	$ 5,003.37
TOTAL:	**$ 117,587.37**

Does not include permit fees
Utility Exploration fee based on 25 pot-holes.

CONSTRUCTION DOCUMENTS
R.J. BEHAR & COMPANY
PROJECT DESCRIPTION: WATERLINE DESIGN ALONG NE 16 AVE, NE 146 STREET, AND NE 18 AVE.

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HRS/ UNIT	NO. OF SHEETS	TOTAL HOURS	REMARKS
Site Visit and Assessment	L.S.	1	6		6	includes 2 people
Data Collection	L.S.	1	8		8	
Utility Conflicts Details	L.S.	1	60		60	
Utility Coordination	L.S.	1	12		12	
General Notes Sheet	EA	1	32		32	
Waterline Plan and Profile Sheets	EA	6	34		204	1"=40' scale
Waterline Connection Details	L.S.	2	32		64	
Specifications	L.S.	1	34		34	
Estimate of Probable Cost	L.S.	3	8		24	
Maintenance of Traffic	EA	6	12		72	
Sequence Of Construction	L.S.	1	24		24	
Construction Duration Estimate	L.S.	1	8		8	
Coordination Meetings	EA	4	4		16	
Permitting	L.S.	1	40		40	Miami Dade County and City ofNorth Miami
Bid and Award Support	EA	1	12		12	
Construction assistance						
RFI's	L.S.	6	4		24	
Shop Drawings Reviews	L.S.	1	16		16	
As needed Site Visit	L.S.	16	4		64	
Pay Requisition Reviews	L.S.	4	4		16	
Progress Meetings	L.S.	10	4		40	
Project Close out and Certification	L.S.	1	24		24	
	SUBTOTAL				184	
TOTAL					800	

RFQ 38-09-10
Archictectural & Engineering Services
Civil Engineering / Environmental Engineering

Vendor Name	Evaluator No.1 Benford	Evaluator No. 2 Ghany	Evaluator No. 3 Pierre	Total Points 0-300 points
CDM	90	83	85	**258**
Calvin Giordano & Associates, Inc	84	81	69	**234**
Hazen & Sawyer	64	84	84	**232**
Kimley Horn & Associates	84	78	69	**231**
EAC Consulting	90	63	73	**226**
Malcolm Pirnie	68	74	80	**222**
Chen & Associates	68	79	74	**221**
Bermello Ajamil & Partners	79	65	69	**213**
RJ Behar & Company	64	71	73	**208**
CES Consultants	84	49	71	**204**
CPH	68	70	65	**203**
Keith & Schnars, PA	54	75	67	**196**
Biscayne Engineering Company	54	61	76	**191**
TY Lin / HJ Ross	54	78	59	**191**
EBS Engineering	54	66	68	**188**
HSQ Group	54	74	60	**188**
C3TS	54	58	67	**179**
The Corradino Group, Inc	51	58	69	**178**
Coastal Systems International, Inc	54	61	61	**176**
Robayna & Associates	53	43	79	**175**
SRS Engineering, Inc	52	46	70	**168**
Metric Engineering	54	42	54	**150**