

**WORK ORDER No. 4 FOR PROFESSIONAL SERVICES**

TO: BCC Engineering, LLC  
6401 SW 87 Avenue, Suite 200  
Miami, Florida 33173  
(305) 670-2350

DATE: January 24, 2022

The City of Doral authorizes the firm of BCC Engineering, LLC to provide professional engineering services for the Stormwater Services 20-Year Needs Assessment Support. Where BCC Engineering, Inc. is a prequalified provider of professional engineering services selected in accordance with Consultant Competitive Negotiation Act (CCNA) requirements and approved by the City Council in October 2020 through Resolution 20-243. The work should be performed in accordance with the contract provisions contained in the Continuing Professional Services Agreement between BCC Engineering, LLC and the City of Doral dated January 4, 2021, and the attached Proposal January 19, 2022, and submitted by your firm for the above referenced project.

**SCOPE OF SERVICES AND SCHEDULE:**


The scope of the project will be as described in the attached proposal from BCC Engineering, LLC dated January 19, 2022, for the City of Doral Stormwater Services 20-Year Needs Assessment Support. The schedule requires the scope of work to be completed within 60 Days of issuing NTP. All limitations of time set forth in this Work Order are of the essence. The performance of services associated with this Work Order will be executed on a lump sum basis not to exceed the amount of \$13,914.60.

You are required by the Continuing Service Agreement to begin work subsequent to the execution of this Work Order, or as directed otherwise. If you fail to begin work subsequent to the execution of this Work Order, the City of Doral will be entitled to disqualify the Proposal and revoke the award.

Work Order incorporates the terms and conditions set forth in the Continuing Services Agreement dated January 4, 2021 between the parties as though fully set forth herein. In the event that any terms or conditions of this Work Order conflict with the Continuing Services Agreement, the provisions of this specific Work Order shall prevail and apply. Work Order is not binding until the City of Doral agrees and approves this Work Order.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and date first above written, in three (3) counterparts, each of which shall, without proof or accounting for the other counterpart be deemed an original Contract.

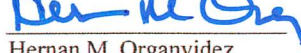
CONSULTANT: BCC Engineering, LLC

BY:   
NAME: Victor H. Herrera  
TITLE: Sr. Vice President


WITNESSES: SEAL:

1.   
2. 

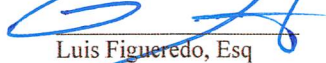
OWNER: City of Doral

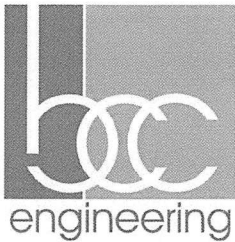
BY:   
NAME: Hernan M. Organvidez  
TITLE: Interim City Manager

AUTHENTICATION:

BY:   
NAME: Connie Diaz  
TITLE: City Clerk

APPROVED AS TO FORM AND LEGAL SUFFICIENCY FOR THE SOLE USE OF THE CITY OF DORAL:

BY:   
NAME: Luis Figueredo, Esq  
TITLE: City Attorney



January 19, 2022

Ms. Stephanie Bortz, CFM  
City of Doral  
8401 NW 53rd Terrace  
Doral, FL 33166

**Reference: CITY OF DORAL STORMWATER SERVICES 20-YEAR NEEDS ASSESSMENT SUPPORT**

Ms. Bortz:

As part of the 2021 regular session, the Florida Legislature recognized the need for a long-term planning process for stormwater infrastructure. Section 403.9302, Florida Statutes, requires a 20-year needs analysis from the local governments providing stormwater services. The Office of Economic and Demographic Research (EDR) developed a template in cooperation with local governments, Special Districts, the Florida Department of Environmental Protection (FDEP), the Water Management Districts, the Florida Stormwater Association, private consultants, and others to ensure that information is compiled consistently throughout the State.

As part of this Service Order proposal BCC Engineering, LLC. (BCC) will support the City of Doral (City) in completing Part 6 - The estimated remaining useful life of each facility or its major components (Section 403.9302(3)(e), F.S.) – of the Template. This Service Order will be an integral part of the Continuing Professional Engineering Services Agreement (RFQ No. 2017-21) between the City and BCC. This Service Order defines the scope of work, schedule, compensation, and scope of work exclusions for this project's professional engineering services.

**I. SCOPE OF WORK**

The Scope of Work is comprised of the following essential tasks:

- Task 1 – Develop Stormwater Infrastructure Service Life Zones GIS Shapefile
- Task 2 – Perform GIS Analyses of Stormwater Infrastructure Service Life Zones
- Task 3 – Formulate End of Useful Service Life Replacement Projects
- Task 4 – Populate Part 6.0 of the 20-year Needs Assessment Template

**Task 1 - Develop Stormwater Infrastructure Service Life Zones GIS Shapefile**

As part of this task, BCC will perform the following activities:

- BCC will use the most current City's GIS stormwater infrastructure database and subdivide it based on major systems and City Sections. BCC will coordinate with the City to establish those delineations.

- BCC will coordinate with the City to establish an approximate year the systems were constructed if the information is available.
- For systems where the construction dates are not available, BCC will use Google Earth aeriels and available SFWMD ERP ePermitting information to establish approximate dates the systems were constructed.
- Once construction dates are determined, BCC will code those dates in the stormwater infrastructure GIS database to include system construction dates.
- BCC will attend one meeting with the City to present the revised GIS stormwater infrastructure database to obtain any further comments from the City.

### **Task 2 – Perform GIS Analyses of Stormwater Infrastructure Service Life Zones**

BCC will use the updated GIS stormwater infrastructure database to perform the following analyses:

- Determine by City Section a breakdown of when systems will reach its useful service life, assuming a 30-year stormwater infrastructure service life.
- Group drainage systems by 5-year increments based on when the systems will reach or have reached the useful service life, from the Year 2022 to 2042.
- For each system, BCC will use GIS to determine the following number of infrastructure elements per grouping:
  - Number of inlets
  - Number of manholes
  - Number of culverts
  - Number of backflow preventers
  - Number of control structures
  - Length of drainage pipes by size
  - Length of exfiltration trenches
- BCC will attend one meeting with the City to present the findings of the GIS data analyses and results. BCC will incorporate applicable comments from the City.

### **Task 3 – Formulate End of Useful Service Life Replacement Projects**

BCC will use the information from the GIS analyses to perform the following activities:

- Develop replacement costs for each drainage system by 5-year increment based on when the systems that will reach or have reached the useful service life.
  - Unit costs for the infrastructure elements outlined in Task 2 will be obtained from City bids from the City and historical FDOT construction costs.
  - For pipe replacement, slip lining will be considered for pipes greater than 18 inches.
- The drainage system replacement cost will also use the following cost items:
  - Design cost based on 10% of replacement cost
  - Permitting cost based on 5% of replacement cost
  - Mobilization cost based on 5% of the replacement cost
  - 30% contingency
- BCC will attend one meeting with the City to present the replacement cost by 5-year increment. BCC will incorporate applicable comments from the City.

#### **Task 4 – Populate Part 6.0 of the 20-year Needs Assessment Template**

BCC will use the information developed for Tasks 1 through 3 to populate the End of Useful Life Replacement Projects matrix in Part 6 of the 20-year Needs Assessment Template. It will be assumed that the replacement costs will be greater than 5% of the City’s total O&M expenditures over the most recent five-year period.

BCC will attend one meeting with the City to present the populated End of Useful Life Replacement Projects matrix. BCC will incorporate applicable comments from the City.

#### **II. SCHEDULE OF WORK – TIME OF PERFORMANCE**

BCC shall complete the activities included in Task 1 through 4 within two (2) months after receiving notice to proceed, but not later than June 1, 2022.

#### **III. COMPENSATION**

BCC will be compensated \$13,914.60 on a lump sum basis for performing the work detailed in the Scope of Work. Attachment A includes a detailed man-hour estimate for work outlined in the Scope of Work.

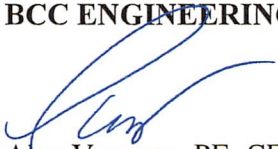
#### **IV. SCOPE OF WORK EXCLUSIONS**

The services outlined below are not included as part of the Scope of Work, although additional service orders can be executed to assist the City with these services if necessary:

1. Hydrologic/hydraulic modeling of replacement projects
2. Conceptual designs of replacement projects
3. Attend public workshops or meetings
4. Prepare coordinate meeting minutes
5. All other activities not explicitly outlined in the Scope of Work

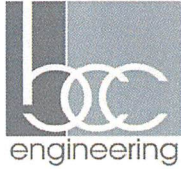
We look forward to assisting the City on this important project assignment. If you have any questions or need additional information, please do not hesitate to contact Victor Herrera, PE, or me at (305) 670-2350.

Sincerely  
**BCC ENGINEERING, INC.**



Alex Vazquez, PE, CFM  
Director of Water Resources/Project Manager

Enclosures:  
Attachment A – Fee Estimate



**CITY OF DORAL  
STORMWATER SERVICES 20-YEAR NEEDS ASSESSMENT SUPPORT**

**FEE ESTIMATE**

Date Estimated: 1/19/2022

WORK ACTIVITY	BCC Staff by Category				TOTAL HOURS	TOTAL FEE	Comments/Assumptions
	Principal/QC	Project Manager	Sr. Project Engineer	Project Engineer			
<b>HOURLY RATE</b>	<b>\$200.00</b>	<b>\$180.00</b>	<b>\$160.50</b>	<b>\$105.30</b>			
<b>Task 1 – Develop Stormwater Infrastructure Service Life Zones GIS Shapefile</b>		<b>4</b>	<b>9</b>	<b>18</b>	<b>31</b>	<b>\$4,059.90</b>	
Delineate stormwater infrastructure by City Sections		2	4		6	\$1,002.00	
Research year drainage systems were constructed		1	2	6	9	\$1,132.80	
Code dates in GIS database			2	12	14	\$1,584.60	
Attend meeting with City to present results		1	1		2	\$340.50	1 mtg, 2 eng, 1hr virtual, no meeting minutes
<b>Task 2 – Perform GIS Analyses of Stormwater Infrastructure Service Life Zones</b>		<b>3</b>	<b>9</b>	<b>28</b>	<b>40</b>	<b>\$4,932.90</b>	
Perform GIS analyses		1	4	16	21	\$2,506.80	
Group project areas based on useful service life			2	8	10	\$1,163.40	
Develop drainage infrastructure inventory by groups		1	2	4	7	\$922.20	
Attend meeting with City to present results		1	1		2	\$340.50	1 mtg, 2 eng, 1hr virtual, no meeting minutes
<b>Task 3 – Formulate End of Useful Service Life Replacement Projects</b>		<b>3</b>	<b>5</b>	<b>20</b>	<b>28</b>	<b>\$3,448.50</b>	
Develop replacement costs by grouped projects		1	2	16	19	\$2,185.80	
Document project costs		1	2	4	7	\$922.20	
Attend meeting with City to present results		1	1		2	\$340.50	1 mtg, 2 eng, 1hr virtual, no meeting minutes
<b>Task 4 – Populate Part 6.0 of the 20-year Needs Assessment Template</b>		<b>2</b>	<b>3</b>	<b>6</b>	<b>11</b>	<b>\$1,473.30</b>	
Populate End of Useful Life Replacement Projects matrix		1	2	6	9	\$1,132.80	
Attend meeting with City to present results		1	1		2	\$340.50	1 mtg, 2 eng, 1hr virtual, no meeting minutes
<b>Total Hours</b>		<b>12</b>	<b>26</b>	<b>72</b>			
<b>Total Fee</b>		<b>\$2,160.00</b>	<b>\$4,173.00</b>	<b>\$7,581.60</b>	<b>110</b>	<b>\$13,914.60</b>	

**RESOLUTION No. 20-243**

**A RESOLUTION OF THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, AUTHORIZING THE CITY MANAGER TO NEGOTIATE AND ENTER INTO PROFESSIONAL SERVICES AGREEMENTS WITH 300 ENGINEERING GROUP, A&P CONSULTING TRANSPORTATION ENGINEERS CORP., BCC ENGINEERING, EAC CONSULTING, GANNETT FLEMING, HW LOCHNER, KIMLEY-HORN, MARLIN ENGINEERING, STANTEC, AND THE CORRADINO GROUP; FOR THE PROVISION OF PROFESSIONAL ENGINEERING AND ARCHITECTURAL SERVICES; AUTHORIZING THE CITY MANAGER TO EXPEND BUDGETED FUNDS ON BEHALF OF THE CITY; AND PROVIDING FOR AN EFFECTIVE DATE**

**WHEREAS**, in response to RFQ #2020-22 titled “Professional General Engineering and Architectural Services”, the City of Doral received twenty-five (25) submittals by the August 7, 2020, 10:00 a.m. deadline; and

**WHEREAS**, the selected firms will be used to create a “pool” of pre-qualified consultants to provide professional general engineering and architectural services thereby reducing the costly and time-consuming process of individual solicitations; and

**WHEREAS**, this expedited process would follow the City of Doral Procurement Ordinance #2004-03 whereby any work in excess of the stated minimum is brought before the City Council for approval; and

**WHEREAS**, funding for the tasks assigned under these contracts will be budgeted each fiscal year; and

**WHEREAS**, Staff respectfully recommends that the City Council authorize the City Manager to negotiate and enter into professional service agreements with the following ten (10) firms: 300 Engineering Group, A&P Consulting Transportation Engineers, BCC Engineering, EAC Consulting, Gannett Fleming, H W Lochner, Kimley-Horn, Marlin

Engineering, Stantec, and The Corradino Group for the provision of professional engineering and architectural services;

**WHEREAS**, in the event the City cannot successfully negotiate with one of/or any of the firms recommended, staff and the City Manager are authorized to move onto the next highest ranked firm and commence negotiations, and so forth, until ten (10) firms have executed contracts.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DORAL AS FOLLOWS:**

**Section 1. Recitals.** The above recitals are confirmed, adopted, and incorporated herein and made a part hereof by this reference.

**Section 2. Approval of Rankings.** The City Council hereby approves the rankings of the ten (10) firms, attached as Exhibit "A", as provided by the proposals submitted.

**Section 3. Authorization.** The City Manager is authorized to expend budgeted funds for professional services associated with this Professional Services Agreement.

**Section 4. Implementation.** The City Manager and the City Attorney are hereby authorized to take such further action as may be necessary to implement the purpose and the provisions of this Resolution.

**Section 5. Effective Date.** This Resolution shall take effect immediately upon adoption.

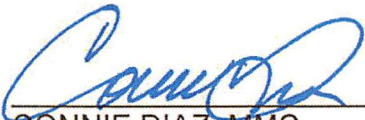
The foregoing Resolution was offered by Councilmember Mariaca who moved its adoption.  
The motion was seconded by Councilmember Puig-Corve and upon being put to a vote,  
the vote was as follows:

Mayor Juan Carlos Bermudez	Yes
Vice Mayor Pete Cabrera	Yes
Councilwoman Digna Cabral	Yes
Councilwoman Claudia Mariaca	Yes
Councilman Oscar Puig-Corve	Yes

PASSED AND ADOPTED this 16 day of December, 2020.

  
\_\_\_\_\_  
JUAN CARLOS BERMUDEZ, MAYOR

ATTEST:

  
\_\_\_\_\_  
CONNIE DIAZ, MMC  
CITY CLERK

APPROVED AS TO FORM AND LEGAL SUFFICIENCY  
FOR THE USE AND RELIANCE OF THE CITY OF DORAL ONLY:

  
\_\_\_\_\_  
LUIS FIGUEREDO, ESQ.  
CITY ATTORNEY