ADDENDUM NO. 2
DECEMBER 20, 2017

Solicitation Title: Roadway Improvements Project – NW 130th Street

Solicitation No.: IFB 10-17-18  Opening Date: FRIDAY, DECEMBER 29, 2017 BY NO LATER THAN 3:30 PM

Attention all potential bidders:

☒ SHOULD Addendum: Information included in this Addendum is for clarification purposes. This Addendum SHOULD be acknowledged by checking the box indicated on the City’s Contract Form A-5, Acknowledgement of Addendum(s), and submitted as part of your Proposal.

To all prospective bidders, please note the following changes and clarifications:

1. Sheets RL-1 and RL-2 which were missing from “Attachment A” of the original Solicitation are incorporated as “Attachment B” of the Solicitation and included with this addendum.

2. A copy of the Geotechnical Report for the locations where work will be completed under this contract is incorporated as “Attachment C” of the Solicitation and included with this addendum.

Request for Information Questions/Clarification:

Q.1 “Please clarify the payment method for the following items:
   ▪ Regular Excavation
   ▪ 12” Subgrade
   ▪ 8” Limerock
   ▪ 1.5” Asphalt Pavement”

A.1 Regular excavation, base course, sub-case course and asphalt pavement shall be included in the unit cost.

Q.2 “Do we have a Geotechnical Report on this job? Please advise.”

A.2 Yes, please see Paragraph 2 of this addendum.

Q.3 “We are bidding on the project mentioned and we noticed in the plans index there are two missing sheets, which are for Lighting RL-1 and RL-2. Could you please provide us those two sheets?”

A.3 Yes, please see Paragraph 1 of this addendum.

For any other questions, clarification can be found in the specifications. All other terms, conditions and specifications remain unchanged for this solicitation.

End of Addendum
Attachment “B”
Plans and Specifications:
Sheets RL-1 and RL-2
GENERAL NOTES
1. Contact all utility companies prior to any underground work. The utility company is responsible for locating and identifying their facilities.
2. Before final acceptance, contractor shall provide 2 sets of full size as built plans to the maintaining agency.
3. These plans represent minimum acceptable criteria. The inspection per these drawings represent the minimum base of acceptance.
4. All material are Underwriters Laboratory approved, unless otherwise specified.
ROADWAY LIGHTING NE 130TH ST

SCALE: 1" = 20'

MPW WOODBRIDGE LED

SPECIFICATIONS

CONTRACTOR TO PROVIDE SUBMITAL OF THE PROPOSED MPW WOODBRIDGE LED LUMINARIES. SUBMISSION IS ACCEPTABLE IF APPROVED BY OWNER AND ENGINEER OF RECORD.

SPECIFICATIONS FOR PROPOSED LUMINARIE REPLACEMENT
SCALE: 1/8"
Attachment “C”
Geotechnical Report
May 19, 2017

EBS Engineering, Inc.
4715 NW 157th Street, Suite #202
Miami, Florida 33014

Attention: Mr. Benjamin S. Essien

Re: Letter Report of Borehole Exfiltration Testing
Drainage Improvements Along NE 133rd Street from West Dixie Highway to NE 11th Avenue and
Drainage Improvements Along NW 130th Street from NW 10th Avenue to NW 12th Avenue
Miami-Dade County, Florida
GEOSOL Project No. 217117

Dear Mr. Essien:

GEOSOL, Inc. (GEOSOL) has completed the borehole exfiltration testing for the above-referenced project. The services were performed in accordance with our proposal P-217124-R1 dated March 10, 2017. Authorization for our services was provided by you via email on May 1, 2017.

Sheets 1 and 2 present the approximate location of the exfiltration tests. The exfiltration tests were located in the field by a representative of GEOSOL utilizing normal taping procedures, existing landmarks and the project site description provided by you on March 7, 2017. The exfiltration testing was performed at a depth of 15 feet below existing grades in eight (8) locations (P-133-1 through P-133-4, and P-130-1 through P-130-4). The exfiltration testing was performed in general accordance with the South Florida Water Management District (SFWMD) "Usual Open-Hole" constant head method. The testing was performed to determine the hydraulic conductivity value (k) of the subsurface materials at a depth of 15 feet below the existing ground surface. The boreholes were drilled by means of a 5 3/4-inch diameter tri-cone bit and water. Upon drilling of the boreholes, a 6-inch diameter perforated PVC pipe was inserted in the ground and used a pump for purging the well prior the start of the test. After completion of the percolation testing, the boreholes were backfilled with grout and the site was cleaned as required. The hydraulic conductivity values (k) were determined from the test results and presented in Table 1. The hydraulic conductivity values are reported in units of cubic feet per second per square foot of seepage area per foot of head (cfs/ft²-ft.).

We appreciate the opportunity to work with you on this project. Please do not hesitate to contact our office if you have any questions about the report or if you need additional information.

Sincerely,

GEOSOL, INC.

Orlando Nocerino, P.E.
Senior Geotechnical Engineer/President
Florida Registration No. 49324

cc: Addresses (1)
File (1)

Attachments: Sheets 1 and 2 – Percolation Test Locations
Table 1 - Summary of Constant Head Percolation Test Results and Subsurface Stratification
Schematics of Constant Head Percolation Tests

5795-A NW 151st Street
Miami Lakes, FL 33014
Phone (305) 828-4367; Fax (305) 828-4235
E-mail: geosolusa@bellsouth.net
TEST LOCATION PLAN

LEGEND

□ P-I APPROXIMATE PERCOLATION TEST LOCATION

TEST LOCATION PLAN
DRAINAGE IMPROVEMENTS ALONG NE 133RD STREET
FROM WEST DIXIE HIGHWAY TO NE 11TH AVENUE AND
DRAINAGE IMPROVEMENTS ALONG NW 130TH STREET
FROM NW 10TH AVENUE TO NW 12TH AVENUE
MIAMI-DADE COUNTY, FLORIDA

DRAWN BY:

SCALE: N.T.S.
PROJ. No.:

CHECKED:

DATE: MAY, 2017

SHEET 1
TEST LOCATION PLAN

LEGEND

■ P-1 APPROXIMATE PERCOLATION TEST LOCATION

TEST LOCATION PLAN
DRAINAGE IMPROVEMENTS ALONG NE 133RD STREET
FROM WEST DIXIE HIGHWAY TO NE 11TH AVENUE AND
DRAINAGE IMPROVEMENTS ALONG NW 130TH STREET
FROM NW 10TH AVENUE TO NW 12TH AVENUE
MIAMI-DADE COUNTY, FLORIDA

DIAGRAM
JG

SCALE
N.T.S.
PROJ. No.

217117

CHECKED
OR

DATE
MAY, 2017

SHEET 2
### TABLE 1 - SUMMARY OF CONSTANT HEAD PERCOLATION TEST RESULTS

DRAINAGE IMPROVEMENTS ALONG NE 133RD STREET
FROM WEST DIXIE HIGHWAY TO NE 11TH AVENUE AND
DRAINAGE IMPROVEMENTS ALONG NW 130TH STREET
FROM NW 10TH AVENUE TO NW 12TH AVENUE
MIAMI-DADE COUNTY, FLORIDA
GEOSOL PROJECT No. 217117

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Date Performed</th>
<th>Casing Diameter (Inches)</th>
<th>Diameter Depth to Groundwater Level Prior to Test (Feet)</th>
<th>Depth of Hole Below Ground Surface (Feet)</th>
<th>SATURATED HOLE DEPTH (Feet)</th>
<th>Corrected Depth of Hole (Feet)</th>
<th>Flow Rate</th>
<th>Hydraulic Conductivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-133-1</td>
<td>05/18/17</td>
<td>6</td>
<td>6.75</td>
<td>15</td>
<td>7.2</td>
<td>6.20</td>
<td>7.80</td>
<td>8.80</td>
</tr>
<tr>
<td>P-133-2</td>
<td>05/18/17</td>
<td>6</td>
<td>6.75</td>
<td>15</td>
<td>6.9</td>
<td>5.90</td>
<td>6.10</td>
<td>9.10</td>
</tr>
<tr>
<td>P-133-3</td>
<td>05/18/17</td>
<td>6</td>
<td>6.75</td>
<td>15</td>
<td>6.7</td>
<td>5.70</td>
<td>6.30</td>
<td>9.30</td>
</tr>
<tr>
<td>P-133-4</td>
<td>05/18/17</td>
<td>6</td>
<td>6.75</td>
<td>15</td>
<td>6.4</td>
<td>5.40</td>
<td>6.60</td>
<td>9.60</td>
</tr>
<tr>
<td>P-130-1</td>
<td>05/17/17</td>
<td>6</td>
<td>6.75</td>
<td>15</td>
<td>9.7</td>
<td>0.00</td>
<td>5.30</td>
<td>15.00</td>
</tr>
<tr>
<td>P-130-2</td>
<td>05/17/17</td>
<td>6</td>
<td>6.75</td>
<td>15</td>
<td>9.3</td>
<td>0.00</td>
<td>5.70</td>
<td>15.00</td>
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<tr>
<td>P-130-3</td>
<td>05/17/17</td>
<td>6</td>
<td>6.75</td>
<td>15</td>
<td>8.7</td>
<td>0.00</td>
<td>6.30</td>
<td>15.00</td>
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<tr>
<td>P-130-4</td>
<td>05/17/17</td>
<td>6</td>
<td>6.75</td>
<td>15</td>
<td>8.0</td>
<td>0.00</td>
<td>7.00</td>
<td>15.00</td>
</tr>
</tbody>
</table>

**NOTES:**

1. The above hydraulic conductivity values are for a French drain installed to the same depth as the borehole test. The values represent an ultimate value. The designer should decide on the required factor of safety.
2. The hydraulic conductivity values were calculated based on the South Florida Water Management Districts's USUAL OPEN HOLE CONSTANT HEAD percolation test procedure as shown on the following page.
3. The CASING diameter was used in the computation of the hydraulic conductivity values presented in the above table, except at tests P-133-1, P-133-2, P-133-3, and P-133-4 where HOLE diameter was used.
4. No loss of circulation was encountered during the performance of the borehole percolation tests, except at test locations P-133-1, P-133-2, P-133-3, and P-133-4.

### SUMMARY OF SUBSURFACE STRATIFICATION

<table>
<thead>
<tr>
<th>Test No.</th>
<th>DEPTH (FEET)</th>
<th>FROM TO</th>
<th>GENERAL MATERIAL DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-133-1</td>
<td>0.00-0.17</td>
<td>Dark Brown Organic Silty Fine Sand with Grass (Topsoil)</td>
<td></td>
</tr>
<tr>
<td>P-133-2</td>
<td>0.17-3.00</td>
<td>Brown Fine to Medium SAND (FILL)</td>
<td></td>
</tr>
<tr>
<td>P-133-3</td>
<td>0.00-0.17</td>
<td>Dark Brown Organic Silty Fine Sand with Grass (Topsoil)</td>
<td></td>
</tr>
<tr>
<td>P-133-4</td>
<td>0.17-2.50</td>
<td>Brown Fine to Medium SAND (FILL)</td>
<td></td>
</tr>
<tr>
<td>P-130-1</td>
<td>0.00-0.17</td>
<td>Dark Brown Organic Silty Fine Sand with Grass (Topsoil)</td>
<td></td>
</tr>
<tr>
<td>P-130-2</td>
<td>0.17-4.50</td>
<td>Brown Fine to Medium SAND (FILL)</td>
<td></td>
</tr>
<tr>
<td>P-130-3</td>
<td>0.00-0.17</td>
<td>Dark Brown Organic Silty Fine Sand with Grass (Topsoil)</td>
<td></td>
</tr>
<tr>
<td>P-130-4</td>
<td>0.17-5.00</td>
<td>Brown Fine to Medium SAND (FILL)</td>
<td></td>
</tr>
</tbody>
</table>

5/22/2017 217117PE.xlsx
**USUAL OPEN-HOLE TEST**

\[ K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)} \]

- **K** = HYDRAULIC CONDUCTIVITY (CFS/FT.\(^2\) - FT. HEAD)
- **Q** = "STABILIZED" FLOW RATE (CFS)
- **d** = DIAMETER OF TEST HOLE (FEET)
- **H_2** = DEPTH TO WATER TABLE (FEET)
- **D_s** = SATURATED HOLE DEPTH (FEET)
- **ELEV. "A"** = PROPOSED TRENCH BOTTOM ELEV.
- **H_1** = AVERAGE HEAD ON UNSATURATED HOLE SURFACE (FT. HEAD)

Reference: SFWMD Management and Storage of Surface Waters Permit Information Manual Vol. IV, Figure 3, Page 12.