



TOWN MANAGER

JAN 31 2020

RECEIVED

January 16, 2020

Civic
Center

Town of Golden Beach
Attention: Mr. Alexander Diaz, Town Manager
1 Golden Beach Drive
Golden Beach, Florida 33160

Reference: Addendum Report of Subsurface Soil Exploration and Pre-Design
Geotechnical Engineering Evaluation of Subsurface Conditions,
Including Foundation Recommendations

Project: Proposed New Town Civic Center

Location: Site "A" - 107 Golden Beach Drive
Golden Beach, Miami-Dade County, Florida

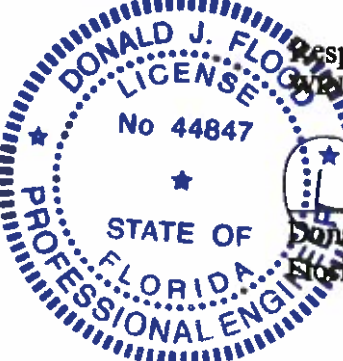
WLI Order No. 19-1433

Gentlemen:

We are pleased to present this addendum report of our subsurface soil exploration and geotechnical engineering evaluation for the subject site. These services were performed in general accordance with the Professional Services Agreement dated October 31, 2019. This addendum and our report issued November 7, 2019 present our evaluation and specific recommendations for the proposed construction together with the field data.

This addendum and our report were prepared in compliance with the 6th Edition of the Florida Building Code (2017).

We appreciate this opportunity to be of service to you during this phase of the project. If you have any questions or comments regarding the information contained in this report, please contact the undersigned.

Respectfully submitted,
WINGERTER LABORATORIES, INC.
1/18/20

Donald J. Flood, Jr., P.E.
Florida Registration No. 44847

enc: Report

In accordance with Rule 61G15-23.001 of the Florida Administrative Code, an original signature is hereby provided for the owner (or owner's representative) and the building official.

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1820 N.E. 144th Street • North Miami, FL 33181 • (305) 944-3401 • 1-800-345-SOIL • Fax: (305) 949-8698

Broward: (954) 764-0472 • Dispatch Fax: (305) 949-1328

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GEOTECHNICAL ENGINEERING EVALUATION

Auger Cast-in-Place Piles - Addendum

This foundation recommendation is based upon three (3) soil borings that were obtained on Lot Numbers 18, 19 & 20, located east of the current basketball courts located in the southeast section of the subject site. These soil borings are a preliminary investigation of a Design-Build proposed structure, being the Golden Beach Civic Center.

A review of the soil boring logs indicates that a layer of dense limestone extends across the subsurface of the area investigated at a depth of 45 to 50 feet. To ensure penetration into this layer, augercast concrete pilings are recommended, having a length of 50 feet.

Recommendations for 16, 18 and 24 inch diameter augercast concrete piles were provided in our Report issued November 7, 2019. This addendum herein includes recommendations for 14 inch diameter augercast concrete piles. Both the bearing and uplift capacities were evaluated expecting embedment in the dense fragmented limestone with some limesand. The pile depth is predicated on the obtained 50 foot deep borings and an evaluation of the soil conditions within the general site area. Note that the data and the recommendations provided herein are preliminary information, whereas additional borings most likely will be required after the final site and building design plans have been approved.

Our recommendation for augercast piles is based upon 50-feet deep piles installed in the limestone strata noted on Boring Nos. B-1, B-2 & B-3. The design values for these piles are listed below. Note that the tension capacity of these piles is restricted due to layers of decomposed organic materials evidenced in the soil borings ranging from ten to 20 feet deep. No friction values were applied to the piles at those depths for this case. Additional borings requested may not have this restriction.

Augercast (Cast-In-Place) Pile Foundations - 14 inch diameter

- | | | |
|----|--------------------------------|-----------------|
| 1. | Shaft Diameter: | 14 inch (round) |
| 2. | Compressive Capacity: | 105 tons |
| 3. | Tension Capacity: | 15 tons |
| 4. | Total Pile Length: | 50 feet |
| 5. | Lateral capacity: | 8 tons |
| 6. | Concrete Compressive Strength: | 5000 psi |

- 7. Minimum center to center spacing
of piles: 42 inches
- 8. Deflection (δ): 0.427 inch

Installation specifications for augercast piles were provided in our Report issued November 7, 2019.

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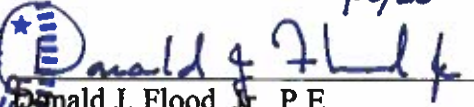
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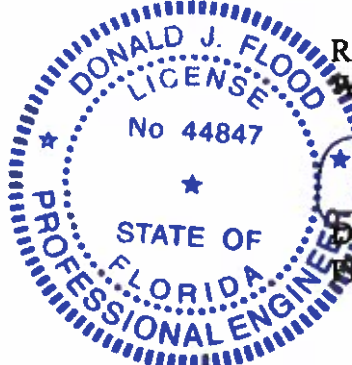
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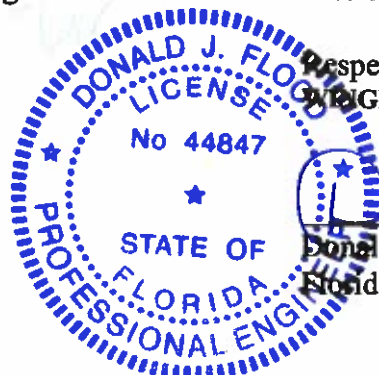
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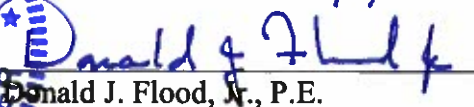
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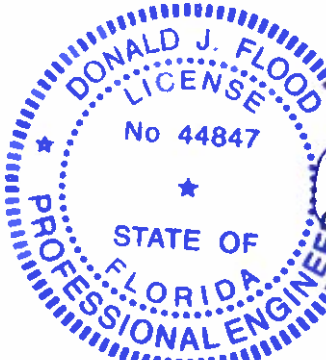
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