City of Doral

RFQ No. 2021-03 Construction Materials Testing and Inspection Services for Central Park

Addendum No. 1

Below are questions/ clarifications that were received regarding this project as well as the City's responses. This Addendum is and does become a part of the above-mentioned solicitation. This addendum is issued to modify the subject solicitation as follows:

1. Do you anticipate extending the bid due date?
   - No.

2. What additional details are you willing to provide, if any, beyond what is stated in bid documents concerning how you will identify the winning bid?
   - The Proposers will be ranked based on the evaluation criteria in the RFQ. There are no additional details beyond what is stated in the RFQ.

3. Was this bid posted to the nationwide free bid notification website at www.mygovwatch.com/free?
   - No.

4. Other than your own website, where was this bid posted?
   - DemandStar and Vendor Registry.

5. Please clarify the pricing / submittal intent: is it a full LUMP SUM Cost based solely on the Quantities listed in Exhibit C or is it a base bid subject to changes in quantity?
   - It is a base bid subject to changes in quantity, not lump sum based solely on the quantities listed. The actual number of any test will be based on the final design and testing required.

6. Sections 2.7.1 and 2.8 in the RFP say that pricing is a separate item and will not be used to select as the envelopes will NOT be opened until after Council Approval. Then after selection of the most qualified, the city will negotiate terms. We would like clarification that Pricing will not be used to select the winner, but rather used to negotiate with the consultant that is deemed most qualified.
   - Correct, pricing will not be used to select the winner. The separate and sealed envelope with pricing will remain closed until the Proposers are ranked. The first placed Proposer will then enter into negotiations with the City of Doral. If negotiations are not successful with the first ranked Proposer, then the City will enter negotiations with the next highest ranked Proposer.

7. Are threshold inspection services required under this contract?
   - No, threshold inspection services are not required under this contract.

8. May we request that the City provide available drawings, geotechnical report, and environmental assessment?
   - Please see attached.

9. RFQ Page 19, Section 2.15.6, references a required "Truth in Negotiating Certificate" form, but this form does not appear in the RFQ. Where is this form located?
   - Please disregard this form. This is not applicable to this RFQ.

10. RFQ Page 31, Section 6.0 Required Forms/Deliverables, references a required "RFQ Reference Survey," but his form does not appear in the RFQ. Where is this form located?

- Please see attached.

11. Would the City provide the RFQ EXHIBIT C: PRICING/FEE WORKSHEET in MS Excel or Word document format please?
    - Exhibit C shall be used as published to retain the integrity of the worksheet.

12. Regarding the requirement for a certified copy of a board resolution on p. 25, 4.1 Proposal Format: "The submittal must be signed by those company officials or agents duly authorized to sign submittal or contracts on behalf of the organization. A certified copy of a board resolution granting such authority should be submitted." For company officials or agents duly authorized to sign submittals or contracts on behalf of our organization, we commonly provide an Authorized Signer Resolution for the submittal signer which is signed and sealed by the firm's Corporate Secretary. In addition, our submittal signer is an officer of the Florida Corporation, as is reflected on our SunBiz registration. Will providing this information be sufficient for this requirement?
    - Yes.

Questions 13- 18 Reference Exhibit C on Pages 71 & 72:

13. Section 03.3000 Indicates Comprehensive Strength – ASTM C39 (Should Read Compressive Strength). This section indicates Quantity 80, does it mean 80 SETS of 5-cylinder specimens, or does it refer to 80 cylinders total?
    - 80 Sets of five (5) cylinder specimens. Please note that quantities are subject to change and only estimated for unit pricing sealed submittals.

14. Section 42.2200 Indicates 60 Each; does it mean 60 SETS of 4 prisms each cast per ASTM C1019, or 60 prisms per ASTM C1019?
    - 60 Sets of four (4) prisms each cast. Please note that quantities are subject to change and only estimated for unit pricing sealed submittals.

15. Section 42.2200 lists ASTM C780. This test procedure has Pre-Construction and Construction Evaluation of Mortars and includes 6 Annexes (different tests). Is the intent to do both Pre-Construction and/or Construction? Is the specifier requesting all 6 Tests for each case (Pre and Const)?
    - Only construction, and the Proposer must have the capacity to perform all 6 tests.

16. Section31.2300 indicates Density and Soil Weight ASTM D1556. This method is also called Sand-Cone method. Can we use ASTM D6938 Nuclear Gauge method which is faster to get results?
    - Field Density Compaction Tests can follow either ASTM D1556, ASTM D6938, or ASTM D2937.

17. Section 31.1216 Asphalt Paving – ASTM D1557. Standard Test D1557 relates to moisture-density relationship tests (Modified Proctor) for soils not for asphalt. Does the specifier intend to use ASTM D5361 Standard Practice for Sampling Compacted Asphalt Mixture for Laboratory Testing to measure thickness, density, etc.?
    - Yes, please use ASTM D5361 Standard Practice for Sampling Compacted Asphalt Mixture for Laboratory Testing. ASTM D1557 is not to be used.

18. Section 31.1216 also addresses In-place density - ASTM D979. This is a sampling practice at the plant but should not be used for sampling compacted paving mixtures. Please clarify.
    - Please use ASTM D5361 Standard Practice for Sampling Compacted Asphalt Mixtures for Laboratory Testing or equal method for onsite sampling.

19. Exhibit G Master Schedule – is addressed on page 13 of the RFQ (last paragraph) but was not included in the RFQ documents. Please provide.
    - A Master Schedule will not be provided at this time. The project is multi-phased anticipated for a duration of 28-months.

20. Page 31 List of Attached Forms – lists "RFQ Reference Survey" but I do not see a form with that name in the RFQ package. Please provide.
    - Please see attached.

21. Certificate as to Corporate Principal, page 56 - It does not appear that this contract will require a payment bond. Is a bond required? Was the Certificate as to Corporate Principal included in the RFQ by mistake? Should reference of a Payment bond be changed to RFQ?
    - No bond is required.

22. If a submittal package is hand delivered to the City, are there any special instructions one should follow?
    - Please review Section 2.10 for all instructions on delivery of your submittals.

23. Page 26, 3. References – this appears to be the same information requested as Proposer Qualification Statement. Can we submit the form in this section?
    - Pg. 26, "Tab. 4 - 3. References" can be omitted. Proposer Qualification Statement in Section 6.0 shall be submitted.

CITY OF DORAL PROCUREMENT
RFP REFERENCE SURVEY
RFQ. NO. 2021-03
CONSTRUCTION MATERIALS TESTING AND INSPECTION SERVICES FOR CENTRAL PARK

FROM:		TO: PROCUREMENT MANAGER
COMPANY:		DATE:
PHONE NO.:		TOTAL #. OF PAGES: 1
FAX NO.		PH. #: 305-593-6725
EMAIL:		EMAIL:procurement@cityofdoral.com
SUBJECT:	Reference for work completed regarding full construction materials testing and inspecting services.	

Additional Details:
_____

_____

_____

You as an individual or Your company has been given to us as a point of contact for a reference on a project completed for you (identified above). Description of City of Doral Project:

Company you are providing a reference for: _____

	Indicate:	"YES" or "NO"
1.	Was the scope of work performed similar in nature?	
2.	Did this company have the proper resources and personnel by which to get the job done?	
3.	Were any problems encountered with the company's work performance?	
4.	Were any change orders or contract amendments issued, other than owner initiated?	
5.	Was the job completed on time based on the original established timeline?	
6.	Was the job completed within budget based on the original established budget?	
7.	On a scale of one to ten (1-10), ten being best, how would you rate the overall work performance, considering professionalism, final product, personnel, resources. Rate from 1 to 10 (10 being the highest)	
8.	If the opportunity were to present itself, would you rehire this company?	
9.	Please provide any additional comments pertinent to this company and the work performed for you:	

PLEASE COMPLETE AND RETURN TO THE ATTENTION OF:
Tanya Donigan – Procurement@cityofdoral.com
Subject: Reference for RFQ No. 2021-03

_____
Reference Print Name

_____ _____
Reference Title Reference Signature

GEOTECHNICAL ENGINEERING REPORT

Doral Central Park
3000 NW 87th Avenue
City of Doral
Miami-Dade County, Florida

PSI Project No. 0397-1537

PREPARED FOR:

Pevida Highway Designers (PHD)
8600 NW 17th Street, Suite 160
City of Doral, Florida

August 19, 2020
Revised October 13, 2020

BY:

PROFESSIONAL SERVICE INDUSTRIES, INC.
7950 NW 64th Street
Miami, Florida 33166
Phone: (305) 471–7725
Fax: (305) 593–1915

Professional Service Industries, Inc.
7950 NW 64th Street
Miami, FL 33166
Office – (305) 471-7725

August 19, 2020
Revised October 13, 2020

Pevida Highway Designers (PHD)
8600 NW 17th Street, Suite 160
City of Doral, Florida 33126

Attn: Mr. Allan Sequeira, P.E.

Re: Geotechnical Engineering Report
Doral Central Park
3000 NW 87th Avenue, City of Doral, Florida
PSI Project No. 0397-1537

Dear Mr. Sequeira:

Professional Service Industries, Inc. (PSI), an Intertek company, is pleased to submit this Geotechnical Engineering Report for the referenced project. This report includes the results from the field and laboratory investigation along with recommendations for use in preparation of the appropriate design and construction documents for this project. A geotechnical report was submitted on August 19, 2020 based on the park's master plan dated June 10, 2020 and provided to PSI prior to the start of the field work. This report was revised on September 9, 2020 to conform to the latest park's master plan dated August 12, 2020 and to address some questions from the design team. This current report revision includes deep foundation recommendations for the Amphitheater structure. Also, as discussed with the Structural Marine Engineer, PSI will perform the pertinent geotechnical analyses and revise this geotechnical report once the design information for the project components 'nature boardwalk trail, canoe/kayak/paddle boat launch, nature pavilion, and lake-front promenade' is available.

PSI appreciates the opportunity to provide this Geotechnical Engineering Report and looks forward to continuing participation during the design and construction phases of this project. PSI also has great interest in providing materials testing and inspection services during the construction of this project and will be glad to meet with you to further discuss how we can be of assistance as the project advances.

If there are questions pertaining to this report, or if PSI may be of further service, please contact us at your convenience.

Respectfully submitted,
PROFESSIONAL SERVICE INDUSTRIES, INC.
Certificate of Authorization No: 3684

Juan D. Villegas, P.E.
Regional Vice President
P.E. License No.: 60745
juan.villegas@intertek.com

JOSE N. GOMEZ LICENSE No. 78289 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been digitally signed and sealed by Jose N. Gomez, P.E.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
2020.10.13 20:55:44 -04'00'
2020.012.20048

Jose N. Gómez, P.E., D.GE
Chief Engineer - Geotechnical Services
P.E. License No.: 78289
jose.n.gomez@intertek.com

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1.0 PROJECT INFORMATION

1.1 PROJECT AUTHORIZATION

Professional Service Industries, Inc. (PSI), an Intertek company, has completed a field exploration and geotechnical evaluation for the proposed project. The following table provides the project authorization information.

Table 1.1-1: Project Authorization

Project Name	Doral Central Park
Project Location	3000 NW 87th Avenue, City of Doral, Miami-Dade County, Florida
Proposal (Contract) Signed By	Allan Sequeira, P.E. Under Work Order #9
Authorization Company	Pevida Highway Designers (PHD)
Authorization Date	August 6, 2020 (Verbally on June 22, 2020)
PSI Proposal # or Contract #	397-15314
PSI Proposal Contents	Scope of Work, Unit Rates

1.2 PROJECT DESCRIPTION

The proposed project consists of the recreational development for the existing Doral Central Park located at 3000 NW 87th Avenue in the City of Doral, Miami-Dade County, Florida. The scope of services for this project included the completion of a subsurface exploration, laboratory soil classification, geotechnical engineering analyses, and foundation recommendations. This report summarizes the results of the work performed and provides recommendations regarding foundation design, soil strength conditions, and general site preparation criteria for each of the project components as listed in **Table 2.3-1** of this report. Also, the project components are graphically shown in **Figure 3** of **Appendix A** based on the last park master plan dated August 12, 2020, provided to PSI.

PSI previously performed a subsurface exploration for the proposed 'Doral Aquatic Facility' (Component Nos. 4, 8, 9, and 10 in **Figure 3** of **Appendix A**). The results of the previous subsurface exploration and geotechnical evaluation and recommendations were provided in PSI Report No. 0397-1106 dated February 27, 2018. The geotechnical soil borings from the previous report have been 're-used' and included in this geotechnical report given some borings match the current 'Aquatic Center' design. These borings (B-01 to B-15) are shown in **Figures 2A** and **2B** of **Appendix A** and listed in **Table 2.3-1** of this report. The following table includes a summary of the project general characteristics.

Table 1.2-1: General Project Description

Project Items	The project consists of the design and engineering of approximately 82 acres (of which 25 acres are a lake-30.5%) of the existing Doral Central Park. See **Table 2.3-1** for a list of each proposed project component. Also, see **Figure 3** of Appendix **A** for a graphical representation of the project components.
Existing Grade Change within Structures Pad Area	± Three feet estimate
Existing Grade Change within Project Site Area	± Three feet estimate
Finished Floor Elevation	Within three feet ± of current grade
Anticipated Foundation Type	Shallow foundation consisting of individual columns and/or continuous wall footings. Piles for the Wetland Boardwalk Trail which is over water (lake).
Design Max. Structural Loading	Varies for the multiple project components. Provided maximum column and wall loads are 350 kips and 7.2 kips/ft, respectively. The maximum column loads would happen at the indoor recreational center and amphitheater stage. All other structures will be lightly loaded.
Pavement for Parking and Drives	Flexible and rigid

The geotechnical recommendations presented in this report are based on the available project information, structure locations, provided structure loads, and the subsurface materials encountered during the field investigation. If the noted information or structural loads are incorrect, please inform PSI so that the recommendations presented in this report can be amended, as necessary. PSI will not be responsible for the implementation of provided recommendations if not notified of changes in the project.

1.3 PURPOSE AND SCOPE OF SERVICES

The purpose of this study is to evaluate the subsurface conditions at the site and develop geotechnical engineering recommendations and guidelines for use in preparing the design and other related construction documents associated with the structures' foundations for the proposed park development. The scope of services included drilling soil borings, performing drainage tests (percolation and double ring infiltrometer), performing laboratory testing, and preparing this geotechnical engineering report.

This report briefly outlines the available project information, describes the site and subsurface conditions, and presents geotechnical engineering recommendations based on the Standard Penetration Testing (SPT) performed for the different project components.

The scope of services for this geotechnical exploration did not include an environmental, mold nor detailed seismic/fault assessment for determining the presence or absence of wetlands, or hazardous or toxic materials in the soil, bedrock, surface water, groundwater, or air on or below, or around this site. Statements in this report or on the boring logs regarding odors, colors, and unusual or suspicious items or conditions are strictly for informational purposes.

2.0 SITE AND SUBSURFACE CONDITIONS

2.1 SITE DESCRIPTION

The following table provides a generalized description of the existing site conditions based on visual observations during the field activities, as well as other available information.

Table 2.1-1: Site Description

Site Location	Doral Central Park, 3000 NW 87th Avenue, City of Doral, Miami-Dade County, Florida. The site vicinity map depicting the general area is provided in **Figure 1** of **Appendix A**.
Site History	The subject property was undeveloped land before the year 1994. Mining was performed sometime in the year 1994 and the lake was formed. The park was developed sometime in the year 2002 (See **Figures 2.2-1** to **2.2-3**).
Existing Site Ground Cover	Grass, vegetation consisting of trees and bushes, and a 25-acre lake.
Existing Grade/Elevation Changes	Ranging from approximately EL +9.7' to +0.0' (Land) and from approximately +0.0' to -24.4' (Lake) (Referenced to NGVD 1929) (Boundary Survey dated 5/4/2018 by ER. Brownwell & Associates).
Description of Adjacent Property	North, South, and East Boundaries: Commercial Developments. West Boundary: Undeveloped Land.

2.2 SITE PHOTOS

The following photographs show the area of the project at different times where the new park components will be built.

Figure 2.2-1: Aerial Photograph of the subject property (Most Recent - 2018)

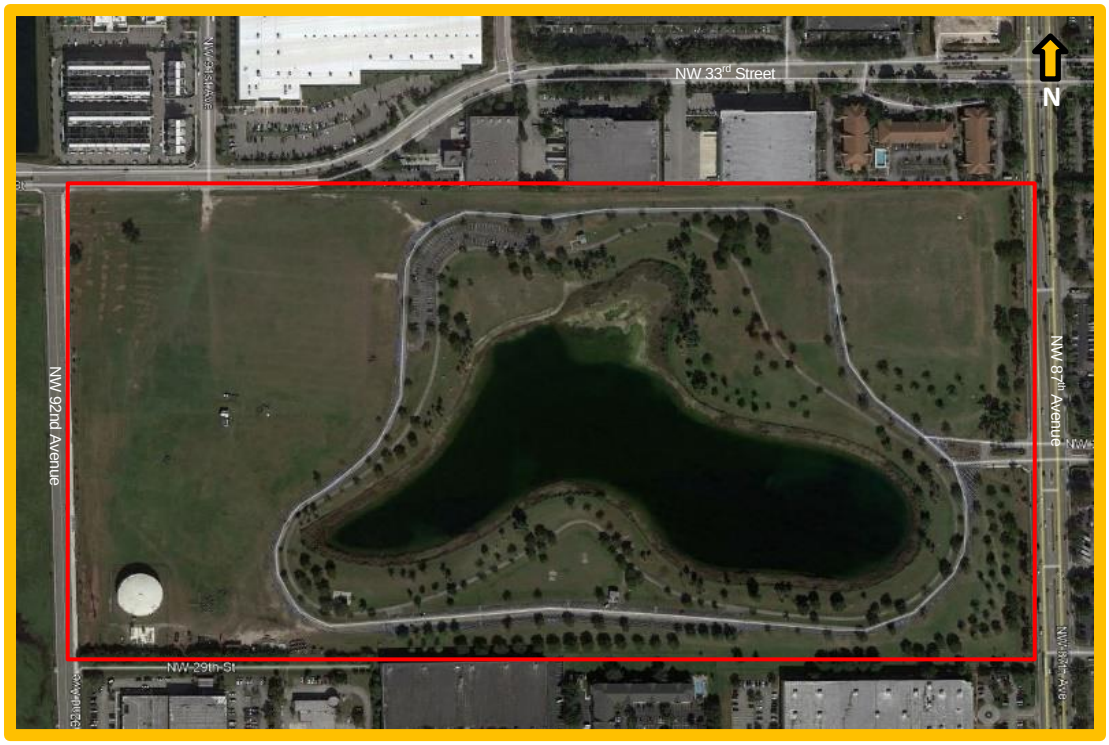


Figure 2.2-2: Historical Aerial Photograph of the subject property (2002)

Figure 2.2-3: Historical Aerial Photograph of the subject property (1994)

2.3 FIELD EXPLORATION

The field exploration for the project consisted of drilling Standard Penetration Test (SPT) borings, performing percolation tests, performing Double Ring Infiltration (DRI) tests, and collecting shallow soil samples from the proposed pavement areas for Limerock Bearing Ratio (LBR) testing. A total of 156 SPT borings (15 and 141 borings in 2018 and 2020, respectively), 15 percolation tests, and four DRI tests were conducted within the park area.

Please, note that the project field exploration was planned and conducted based on the park's master plan dated 6/10/2020 and provided to PSI prior to the start of the field work. **Table 2.3-1** below has been revised to conform to the latest park's master plan dated 8/12/2020. The project component and boring/test used in the geotechnical evaluation based on the current park's master plan is presented in **Table 2.3-1** below. Please, refer to **Table 1** of **Appendix A** for the boring depth and other related information.

Table 2.3-1: Field Exploration Summary

Project Component/Master Plan Legend (Dated 8/12/2020) – See Figures 2A & 3	Boring Used for Evaluation	Percolation Test (P) or DRI
PSI Borings (2018); Components 3, 4, 8-10, 33	B-01 to B-15	-
1. 70,987 sf Indoor Recreation Center	B-01.01 to B-01.08, B-20.06	-
2. Dedicated Drop-Off Plaza	B-24.01	-
3. Surface Parking Lot	B-03, B-02.02, B-03.01 to B-03.03, B-03.05, B-03.09, B-03.10, B-05.01, B-24.02, B-24.12, P-12, P-13	P-03, P-12, P-13
4. Competition Pool	B-04, B-06, B-07, B-04.01, B-10.01	-
5. Park Maintenance Storage Building	B-05.02	-
6. Sloping Event Lawn with Perimeter Berm	B-06.01 to B-06.04	DRI-2
7. Amphitheater with Stage & VIP Area	B-07.01 to B-07.03	-
8. Aquatics Center	B-08 to B-10, B-08.01, B-08.02	-
9. Recreational Pool Deck	B-05, B-11 to B-15, B-29.15, B-29.16	-
10. Competition Pool Deck	See Project Component #4 and #8 Borings	-
11. Skate Spot and Pump Track	B-03A.01, B-03A.02, B-29.09, B-32.03	P-11
12. Sensory Playscape	B-12.01, B-12.02	-
13. Nature Boardwalk Trail *(Over Water)*	B-13.01 to B-13.03	-
14. Lake-Front Sand Volleyball	B-14.01, B-14.02	-
15. Playground/Play Space	B-15.01, B-30.05	-
16. Learn-to-Bike Loop	B-30.04, B-32.01, B-33.03, B-33.04	P-06, P-08
17. Basketball Courts (3)	B-17.01 to B-17.05, B-29.02	-
18. Tennis Courts (4)	B-18.01 to B-18.05, B-29.01	-
19. Small Tot-Lot	B-29.17	-
20. Lake-Front Promenade	B-20.01 to B-20.06, B-21.03	-
21. Cultural Plaza w/ Sculptural Play Piece	B-21.01, B-21.02	-
22. Primary Vehicular Entrance	B-22.01 to B-22.04	-
23. Existing Water Storage	-	-
24. Perimeter Roads w/ On-Street Parking	B-02.01, B-24.03 to B-24.12f	P-04, P-05, P-14
25. Canoe/Kayak/Paddle Boat Launch (2)	B-27.01 and Project Component #13 Borings	-
26. Natural Area w/Nature Trails	B-26.01 to B-26.03, B-30.02	-
27. Nature Pavilion	See Project Component #13 Borings	-
28. Restroom Buildings (3)	B-15.02, B-24.09, B-29.12, B-32.08	-
29. Small Picnic Shelter (18)	B-26.02, B-26.03, B-27.01, B-28.01, B-29.03 to B-29.11, B-29.13, B-29.14, B-32.01, B-32.02, B-32.05, B-32.09	-
30. Large Picnic Shelter (5)	B-29.04, B-29.08, B-29.09, B-29.11, B-30.01, B-31.03, B-32.05, B-32.10	-
31. Multipurpose Open Field	B-36.01 to B-36.03	P-09, P-10, DRI-4
32. Lake-Front Trail	B-29.08 to B-29.11, B-29.14, B-32.01, B-32.04, B-32.06 to B-32.09, B-33.03	DRI-1
33. Overflow Surface Parking Lot (NW Corner)	B-01 & B-02, B-03.04, B-03.06 to B-03.08	P-01, P-02
34. Vehicular Roundabouts	See Project Components #3, #22, #24, #33 Borings	-
35. Overflow Turf Parking Area	B-34.01, B-34.02, B-35.01, B-35.02	P-15
36. Ball Fields (2)	B-11.01 to B-11.06, B-30.03, B-31.01, B-31.02, B-31.04, B-31.05, B-33.01, B-33.02	P-07, DRI-3
37. Lake Fountain	-	-
38. Lake Steps	B-20.05, B-20.06	-
39. Amphitheater Storage Building	B-28.02	-
N/A. Ball Fields Tall Fence Posts	B-11.02 to B-11.05, B-28.01, B-30.03, B-31.01, B-31.02, B-31.04, B-31.05, B-33.01, and B-36.01	-

The approximate boring locations are depicted on the Boring Location Plan provided in **Figures 2A** and **2B** of **Appendix A** and tabulated in **Table 1** located at the end of **Appendix A**. Also, the boring location plan based on the park's master plan dated 6/10/20 and used to perform the field exploration is provided in **Figure 2C** of **Appendix A** for information purposes only. The boring/test locations were located in the field using aerial photography and existing landmarks with the aid of a recreational-grade GPS system. Elevations of the ground surface at the boring locations were not provided and should be surveyed by others prior to construction. The references to elevations of various subsurface strata are based on depths below existing grade at the time of drilling, unless otherwise noted.

Table 2.3-2: Field Exploration Description

Drilling Equipment	Truck Mounted Drilling Rigs (CME-55 & CME-75)
Drilling Method	Mud-Rotary
Drilling Procedure	Applicable ASTM and Automatic Hammer
[1] Field SPT Testing & Sampling Procedure	Standard Penetration Test (ASTM D1586)
Sampling Frequency	Continuously to a Depth of 10 Feet and at 5-ft Intervals Thereafter
Frequency of Groundwater Level Measurements	During Drilling
Boring Backfill Procedures	Grouting
[2] Percolation Tests	South Florida Water Management District (SFWMD) Procedures for the "Usual Condition Constant Head" Test
Double Ring Infiltration (DRI) Test	ASTM D3385

[1] After seating the sample spoon six inches for the SPT borings, the number of successive blows required to drive the sampler twelve inches into the soil constitutes the test result commonly referred to as the "N" value. The "N" value has been empirically correlated with various soil properties and is considered to be indicative of the relative density of cohesionless soils and the consistency of cohesive materials.

*[2] A 4-inch diameter perforated PVC pipe was placed in a 6-inch diameter 15-ft deep borehole prior to retrieving the casing. Water was then pumped into the borehole to raise the water level as close to the ground surface as possible. Once the inflow equalized with the outflow rate, the average pumping rate and level of the water for this stabilized flow rate was recorded. The hydraulic conductivity values determined from the tests are presented in **Table 4** of **Appendix D**. The values are in units of cubic feet of flow per second, per square foot of seepage area, per foot of head (cfs/ft^2-ft). The tabulated values are ultimate values. The designer should apply an appropriate factor of safety to the reported values.*

During field activities, the encountered subsurface conditions were observed, logged, and visually classified (in general accordance with ASTM D2487). Field notes were maintained to summarize soil types and descriptions, water levels, changes in subsurface conditions, and drilling conditions.

2.4 LABORATORY TESTING PROGRAM

The soil samples recovered from the borings were visually reviewed in the laboratory by a geotechnical engineer to confirm the field classifications. The samples were classified using the Unified Soil Classification System (USCS) in general accordance with the American Society of Testing and Materials (ASTM) test designation D2487. The soil classification was based on visual observations and laboratory testing. Our laboratory program consisted of performing moisture content tests (ASTM D2216), particle size distribution tests (ASTM D6913) including material finer than the No. 200 sieve (ASTM C117), organic content tests (ASTM D2974), and corrosion series tests (pH, Sulfates, Chlorides, and Resistivity) performed in general accordance with the FDOT Test Designations FM5-550, 5-551, 5-552, and 5-553. Also, four Limerock Bearing Ratio (LBR) tests (LBR-1 to LBR-4) were performed in general accordance with the FDOT Test Designation FM5-515. Please refer to **Appendix C** for details on the laboratory testing results.

2.5 SITE GEOLOGY

South Florida region is located on the southern flank of Florida Plateau, a stable, carbonate platform on which thick deposits of limestones, dolomites, and evaporates have accumulated; these deposits and associated geological formations were deposited during the Pleistocene epoch. The general geology of the upper 200 feet of this platform within the area of South Florida where the proposed project is to be located is composed predominantly of limestone and quartz sand. The geological formations that usually are encountered from top to bottom within Miami-Dade County are the Pamlico Formation (sands and organic silt and peat), Miami Formation (oolitic limestone) and Fort Thompson Formation (intercalations of sand with limestone and cemented sand with limestone and cemented sand and shell).

2.6 SUBSURFACE CONDITIONS

The results of the field and laboratory investigation have been used to generalize a subsurface profile at the project site. The following subsurface descriptions provide a highlighted generalization of the major subsurface stratification features and material characteristics. To develop the subsurface descriptions, borings conducted in 2018 (B-01 to B-15) were also considered, in addition to the current ones listed above in **Table 2.3-1**.

Table 2.6-1: Generalized Soil Profile Description - Legend

Stratum No.	General Material Description (USCS)
1	Asphaltic Concrete (Pavement)
2	Topsoil (OL)
3	Brown Fine to Medium Grained Sand with Limerock - Fill (SP/SP-SM)
4	Brown Fine to Medium Grained Sand (*Pamlico Formation*) (SP/SP-SM)
5	Light Brown Weathered Oolitic Limestone (*Miami Limestone Formation*)
6	Light Brown Fine to Medium Grained Sand, Occasionally with Limestone and Cemented Sand Fragments (*Ft. Thompson Sand Formation*) (SP/SP-SM)
7	Light Gray Limestone and Cemented Sand (*Ft. Thompson Limestone Formation*)
8	Light Brown to Brown Silty Sand with Limerock (SM)

In general, the Miami Limestone Formation consisting of light brown weathered oolitic limestone was encountered within the upper 15 to 20 feet of subsurface soils underlain by the Fort Thompson Formation consisting of light brown fine to medium grained sand, occasionally with limestone and cemented sand fragments underlain by light gray limestone and cemented sand to the boring termination depth of 50 to 75 feet below the ground surface.

The boring logs (2018 and 2020) included in **Appendix B** should be reviewed for specific information at individual boring locations associated to specific park components and locations. The boring logs include soil descriptions, stratifications, locations of the samples, and field and laboratory test data. The descriptions provided on the logs only represent the conditions at that actual boring location; the stratifications represent the approximate boundaries between subsurface materials. The actual transitions between strata may be more gradual and less distinct. Variations will occur and should be expected across the site.

The following table provides more detailed data regarding the material's SPT test results (N-value), its relative density (granular/cohesionless material) or hardness (limestone/rock). These data has been combined for similar project components (i.e. pavements/parking, aquatic center/pools, tennis/basketball courts, etc.) to simplify the analyses and recommendations.

Table 2.6-2: Generalized Subsurface Information

Generalized Subsurface Information/SPT Results						
Project Component No.	**General Area**	**[3] Boring Used for Evaluation**	**[1] Stratum No.**	**[2] N_{auto} Value Average (bpf)**	**[2] N_{auto} Value Range (bpf)**	**Relative Density or Rock Hardness**
1	70,987 sf Indoor Recreation Center	B-01.01 to B-01.08, B-20.06	3	12	5 - 19	Loose to Medium Dense
			5	17	4 - 50	Soft to Hard
			6	7	0 - 14	Very Loose to Medium Dense
			7	34	3 - 50/5"	Soft to Very Hard
2, 3, 22, 24, 33, 34, 35	Parking/Pavement/ Driveways/ Roundabouts	**B-01** to **B-03**, B-02.01 & B-02.02, B-03.01 to B-03.10, B-05.01, P-12, P-13, B-22.01 to B-22.04, B-24.01 to B-24.12, B-34.01 & B-34.02, B 35.01 & B-35.02	3	11	6 - 20	Loose to Medium Dense
			4	11	4 - 18	Loose to Medium Dense
			5	15	7 - 39	Soft to Hard
			6	16	6 - 28	Loose to Dense
			7	56	7 - 50/4"	Soft to Very Hard
			8	5	5	Loose
4, 8, 9, 10	Aquatic Center/Pools/ Pool Decks	**B-04** to **B-15**, B-04.01, B-08.01 & B-08.02, B-10.1, B-29.15 & B-29.16	3	21	13 - 36	Medium Dense to Dense
			4	10	6 - 19	Medium Dense
			5	16	7 - 44	Soft to Hard
			6	28	6 - 50/4"	Loose to Very Dense
			7	34	8 - 50/4"	Soft to Very Hard
			8	21	17 - 26	Medium Dense to Dense
5	Park Maintenance Storage Building	B-05.02	3	16	15 - 16	Medium Dense
			5	11	5 - 22	Soft to Hard
6	Sloping Event Lawn w/ Perimeter Berm	B-06.01 to B-06.04	3	12	6 - 20	Loose to Medium Dense
			5	14	9 - 24	Soft to Hard
7, 39	Amphitheater Stage & Storage	B-07.01 to B-07.03, B-28.02	3	11	4 - 17	Medium Dense
			5	16	7 - 23	Soft to Hard
			6	12	10 - 14	Medium Dense
			7	25	8 - 43	Soft to Hard
11	Skate Spot and Pump Track	B-29.09, B-32.03, B-3A.1, B-3A.2	3	9	5 - 16	Loose to Medium Dense
			4	6	6	Loose
			5	15	8 - 27	Soft to Hard
13, 25, 27	Nature Boardwalk Trail, Canoe/Kayak/ Paddle Boat Launch, Nature Pavilion	B-13.01 to B-13.03, B-27.01	3	17	17	Medium Dense
			4	12	9 - 13	Medium Dense
			5	11	4 - 19	Soft to Hard
			6	14	11 - 21	Medium Dense
			7	70	9 - 50/3"	Soft to Very Hard
14	Lake-Front Sand Volleyball	B-14.01 & B-14.02	5	14	11 - 17	Soft to Hard
12, 15, 16, 19, 21	Sensory Playscape, Playground/Play Space, Learn-to-Bike Loop, Small Tot-Lot, Cultural Plaza w/Sculptural Play Piece	B-12.01 & B-12.02, B-15.01, B-29.17, B-21.01 & B-21.02, B-30.04 & B-30.05, B-32.01, B-33.03 & B-33.04	3	16	5 - 41	Loose to Very Dense
			5	13	8 - 23	Soft to Hard
			6	11	10 - 12	Medium Dense
			7	10	9 - 11	Soft

Generalized Subsurface Information/SPT Results						
Project Component No.	**General Area**	**[3] Boring Used for Evaluation**	**[1] Stratum No.**	**[2] N_{auto} Value Average (bpf)**	**[2] N_{auto} Value Range (bpf)**	**Relative Density or Rock Hardness**
17, 18	Basketball & Tennis Courts	B-17.01 to B-17.05, B-18.01 to B-18.05 B-29.01 & B-29.02	3	18	11 - 28	Medium Dense to Dense
			4	11	6 - 22	Loose to Medium Dense
			5	14	5 - 26	Soft to Hard
20, 38	Lake-Front Promenade & Lake Steps	B-20.01 to B-20.06, B-21.03	3	16	9 - 24	Medium Dense
			4	6	6	Loose
			5	13	7 - 31	Soft to Hard
			6	13	5 - 20	Loose to Medium Dense
			7	41	9 - 50/4"	Soft to Very Hard
26, 32	Natural Area w/Nature Trails & Lake-Front Trail	B-26.01 to B-26.03, B-30.02, B-29.08 to B-29.11, B-29.14, B-32.01, B-32.04, B-32.06 to B-32.09, B-33.03	3	11	4 - 20	Loose to Medium Dense
			4	12	10 - 14	Medium Dense
			5	15	8 - 35	Soft to Hard
28	Restroom Buildings	B-15.02, B-24.09, B-29.12, B-32.08	3	8	6 - 9	Loose to Medium Dense
			5	15	7 - 28	Soft to Hard
29, 30	Small and Large Picnic Shelters	B-26.02 & B-26.03, B-27.01, B-28.01, B-29.03 to B-29.11, B-29.13 & B-29.14, B-30.01, B-31.03, B-32.01 & B-32.02, B-32.05, B-32.09 & B-32.10	3	12	4 - 28	Loose to Dense
			4	10	7 - 13	Medium Dense
			5	15	7 - 35	Soft to Hard
			6	10	8 - 11	Medium Dense
31, 36	Multipurpose Open Field & Ball Fields	B-11.01 to B-11.06, B-30.03, B-31.01 & B-31.02, B-31.04 & B-31.05, B-33.01 & B-33.02, B-36.01 to B-36.03	3	12	8 - 21	Loose to Medium Dense
			4	8	4 - 14	Loose to Medium Dense
			5	15	7 - 38	Soft to Hard
			6	7	5 - 8	Loose to Medium Dense
			7	23	12 - 33	Hard

*[1] For strata depth, refer to individual boring logs in **Appendix B** of this report.*

[2] The relative density is based on the "N_{safety}" values. Therefore, the "N_{safety}" values were obtained by multiplying "$N_{automatic}$" by the correction factor of 1.24 (FDOT Soils and Foundation Handbook, Section 4.1).

[3] Borings in bold correspond to the 2018 field exploration.

2.7 GROUNDWATER INFORMATION

Water level measurements were performed during drilling operations. No further water measurements were conducted after drilling was finished. Specific information concerning groundwater is noted on each boring log presented in **Appendix B** of this report and summarized in the following table. Also, the groundwater measurements are tabulated in **Table 1** of **Appendix A**. Please note that groundwater levels fluctuate seasonally in response to rainfall, local drainage patterns and the infiltration rate of the soil. The rainy season in South Florida is normally between May and October. Based upon our interpretation of the SPT boring data obtained during June and July 2020, the seasonal high groundwater level may be estimated at 1.0 to 1.5 feet above the measured groundwater levels. If a detailed water level evaluation is required, observation wells or piezometers can be installed at the site to monitor water levels. The groundwater levels presented in this report were measured at the time of PSI field activities. The contractor should determine the actual groundwater levels at the site before construction activities.

Table 2.7-1: Groundwater General Information

Project Component No.	General Area	[1] Boring Name	Groundwater Depth (Below Exist. Grade) (ft.)	
			Average	Range
1	70,987 sf Indoor Recreation Center	B-01.01 to B-01.08, B-20.06	4.2	3.6 - 4.8
2, 3, 22, 24, 33, 34, 35	Parking/Pavement/Driveways/ Roundabouts	**B-01** to **B-03**, B-02.01 &B-02.02, B-03.01 to B-03.10, B-05.01, P-12, P-13, B-22.01 to B-22.04, B-24.01 to B-24.12, B-34.01 & B-34.02, B 35.01 & B-35.02	3.5	2.3 - 4.6
4, 8, 9, 10	Aquatic Center/Pools/ Pool Decks	**B-04** to **B-15**, B-04.01, B-08.01 & B-08.02, B-10.1, B-29.15 & B-29.16	3.3	2.5 - 4.0
5	Park Maintenance Storage Building	B-05.02	3.6	3.6
6	Sloping Event Lawn w/ Perimeter Berm	B-06.01 to B-06.04	2.7	2.3 - 3.6
7, 39	Amphitheater Stage & Storage	B-07.01 to B-07.03, B-28.02	3.2	2.0 - 3.8
11	Skate Spot and Pump Track	B-29.09, B-32.03, B-3A.1, B-3A.2	4.4	2.6 - 6.3
13, 25, 27	Nature Boardwalk Trail, Canoe/Kayak/ Paddle Boat Launch, Nature Pavilion	B-13.01 to B-13.03,B-27.01	3.1	2.2 - 3.7
14	Lake-Front Sand Volleyball	B-14.01 & B-14.02	3.4	2.9 - 3.8
12, 15, 16, 19, 21	Sensory Playscape, Playground/Play Space, Learn-to-Bike Loop, Small Tot-Lot, Cultural Plaza w/Sculptural Play Piece	B-12.01 & B-12.02, B-15.01, B-29.17, B-21.01 & B-21.02, B-30.04 & B-30.05, B-32.01, B-33.03 & B-33.04	3.7	2.9 - 4.7
17, 18	Basketball & Tennis Courts	B-17.01 to B-17.05,B-18.01 to B-18.05 B-29.01 & B-29.02	3.7	2.6 - 4.6
20, 38	Lake-Front Promenade & Lake Steps	B-20.01 to B-20.06, B-21.03	4.1	3.0 - 5.0
26, 32	Natural Area w/Nature Trails & Lake-Front Trail	B-26.01 to B-26.03, B-30.02, B-29.08 to B-29.11, B-29.14,B-32.01, B-32.04, B-32.06 to B-32.09, B-33.03	4.4	3.5 - 4.8
28	Restroom Buildings	B-15.02, B-24.09, B-29.12, B-32.08	3.8	3.2 - 4.3
29, 30	Small and Large Picnic Shelters	B-26.02 & B-26.03, B-27.01, B-29.03 to B-29.11, B-29.13 & B-29.14, B-30.01, B-31.03, B-32.01 & B-32.02, B-32.05, B-32.09 & B-32.10	3.9	2.7 - 4.8
31, 36	Multipurpose Open Field & Ball Fields	B-11.01 to B-11.06, B-30.03, B-31.01 & B-31.02, B-31.04 & B-31.05, B-33.01 & B-33.02, B-36.01 to B-36.03	4.9	3.4 - 6.7

[1] Borings in bold correspond to the 2018 field exploration.

3.0 GEOTECHNICAL EVALUATION AND RECOMMENDATIONS

3.1 GEOTECHNICAL DISCUSSION

The subsurface conditions of the subject are suitable for the proposed park development. The subsurface conditions generally consist of surface granular soils (Strata 3 and 4) followed by the upper natural Miami Limestone formation (Stratum 5) which is underlaid by the Ft. Thompson sand (Stratum 6) and Ft. Thompson Limestone (Stratum 7) formations. Based on our experience with similar projects, and the structural loads noted in **Section 1.2** of this report, it is our opinion that shallow foundations are the appropriate solution to support the different project structure components. However, the 'nature boardwalk trail, canoe/kayak/paddle boat launch, nature pavilion, and lake front promenade deck/pier' which will be constructed over a portion of the lake would require a deep foundation system. Also, the pool shell structures subjected to high hydrostatic forces, such as the competition pool, may require a deep foundation system to overcome uplift pressures. The following design recommendations have been developed based on the previously described project characteristics and subsurface conditions encountered. If there are changes in the project criteria and/or structural loads, PSI should be retained to determine if modifications in the foundation recommendations will be required. The findings of such a review would be presented in a supplemental report. Once final design plans and specifications are available, a general review by PSI is recommended to observe that the conditions included in the project description are correct and to verify that the earthwork and foundation recommendations are properly interpreted and implemented within the construction documents.

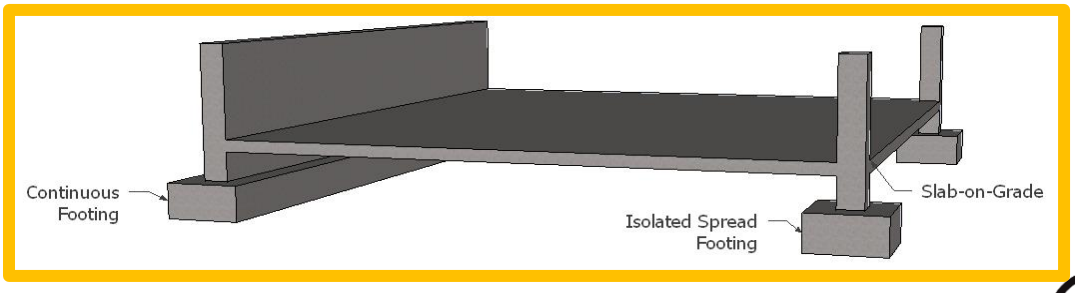
3.2 FOUNDATION RECOMMENDATIONS DISCUSSION

Based on information provided to PSI, information obtained during the field operations, results of the laboratory testing, the provided structural loads and PSI's experience with similar projects, we recommend shallow foundations to support the different project structure components except for the 'nature boardwalk trail, canoe/kayak/paddle boat launch, nature pavilion, and lake front promenade deck/pier' which will be completely or partially constructed over water (lake). We anticipate that these project components would be supported on a deep foundation system. In addition, any pool shell structures that are be subjected to high hydrostatic forces may need to be supported on a deep foundation system to control uplift pressure when empty. Recommendations for shallow and deep foundations are presented in the following sections. Also, additional and preliminary geotechnical recommendations for the 'nature boardwalk', 'canoe/kayak/paddle boat launch', 'lake-front promenade', 'amphitheater stage', and 'tall fence posts' are provided in the following sections.

3.2.1 SHALLOW FOOTING FOUNDATIONS RECOMMENDATIONS

As previously mentioned, all project components (except as noted in **Section 3.2**) can be supported by isolated spread footings or continuous wall footings as generally shown in the illustration and described in the table below:

Figure 3.2-1: Shallow Foundation System



After completion of the site preparation procedures noted in **Section 5.0** of this report, the proposed structures (except as noted in **Section 3.2**) can be supported on shallow foundations bearing on compacted granular soils or directly on the natural Miami Limestone Formation (Stratum 5). Shallow foundation design parameters are presented in the following table:

Table 3.2-1: Shallow Foundation Design

Shallow Foundation Parameters	Foundations Bearing on Compacted Granular Soils	[1] Foundations Bearing Directly on the Natural Miami Limestone Formation (Stratum 5)
Maximum Net Allowable Soil Bearing Capacity (psf)	3,000	5,000

*[1] Foundations must be directly supported on the natural limestone formation. This alternative will require excavation to the top of limestone foundation bearing level. See shallow foundation construction recommendations in **Section 5.2.2** of this report.*

Based on our analysis of the SPT boring results, we recommend a minimum footing embedment depth of 24 inches below the finished exterior grade. We further recommend that the individual column and continuous wall footings have a minimum width of 24 inches. The purpose of limiting the minimum footing size is to prevent a "punching" shear failure and to reduce the possibility of bearing on an isolated weak zone.

Foundations subject to transient lateral loads will resist these forces through a combination of base shearing resistance mobilized at the footing-subgrade interface and earth pressure acting on the vertical faces of the footings at right angles to the direction of applied load. Base shearing resistance may be determined using a friction factor of 0.5. Passive earth pressure resistance should be computed using an equivalent fluid pressure of 180 pounds per square foot per foot of depth, for granular limerock backfill material and considering effective conditions (below water table). Resistance to sliding determined in accordance with the noted parameters should be considered ultimate resistance. Accordingly, the design for sliding resistance should include a factor of safety of at least 1.5 be used.

Provided that all vegetation, topsoil, organic, deleterious materials or unsuitable fill encountered during site preparation have been removed and the site preparation recommendations stated in **Section 5.0** of this report are implemented, the potential total settlement of wall and isolated column footings from the applied loads is expected to be one inch or less. Maximum differential settlement between adjacent columns or across approximately 30 feet of continuous footing length is expected to be half the total settlement.

Compacted granular soils or the natural limestone formation that will provide support to the foundations have very low compressibility characteristics and any settlement due to pressure applied by the foundations is likely to occur almost immediately upon application of the loads. In this case, nearly all of the settlement of the structure foundations due to dead loads is expected to take place during construction. The portion of the settlement due to the live loads will generally take place soon after the first application of this load.

Total and differential settlements of the noted magnitudes are usually considered tolerable for most construction; however, the tolerance of the proposed structures to the predicted total and differential settlements should be confirmed by the structural engineer/architect. Additionally, our settlement estimates are based on the anticipated foundation loads on the order of magnitude noted in **Section 1.2**; any changes on these loads will modify the calculated settlements, as such, PSI must be notified to provide the required report update.

3.2.2 FLOOR SLAB

We recommend that the procedures described in **Section 5.0** of this report be used to prepare the floor slab subgrade. Ground floor slabs can bear directly on top of compacted structural fill material. A modulus of subgrade reaction value of 150 pounds per cubic inch (pci) (based on expected results of a one-foot square plate load test) may be used for design assuring that subgrade was properly compacted. The value should be geometrically modified for larger areas. The floor slabs should be adequately reinforced to reduce the risk of cracking due to differential settlement. Floor slabs should not be rigidly connected to wall footings. An impervious membrane should be installed between the soil subgrade and bottom of floor slabs to avoid slab moisture problems. An ultimate friction factor of 0.21 should be used for the vapor barrier-soil interface with an appropriate factor of safety. Floor slab design should conform to American Concrete Institute (ACI) design standards and practices.

3.2.3 NATURE BOARDWALK TRAIL, CANOE/KAYAK/PADDLE BOAT LAUNCH & NATURE PAVILION

We understand that a nature boardwalk (13), a canoe/kayak/paddle boat launch (25) at the N and SE areas of the lake, and a nature pavilion (27) will be constructed over a portion of the lake a shown on **Figure 3.2.3-1** below. Four borings (B-13.01 to B-13.03 and B-27.01) were performed to depths ranging from 20 to 75 feet on land. The borings could not be performed on the water because the area is considered a wetland and is protected requiring environmental permitting. <u>These borings were performed as close as possible to the wetland boardwalk and nature pavilion based on the park's master plan dated 6/10/20, as previously noted in this report.</u>

Figure 3.2.3-1 : Nature Boardwalk Trail, Canoe/Kayak/Paddle Boat Launch (N) & Nature Pavilion

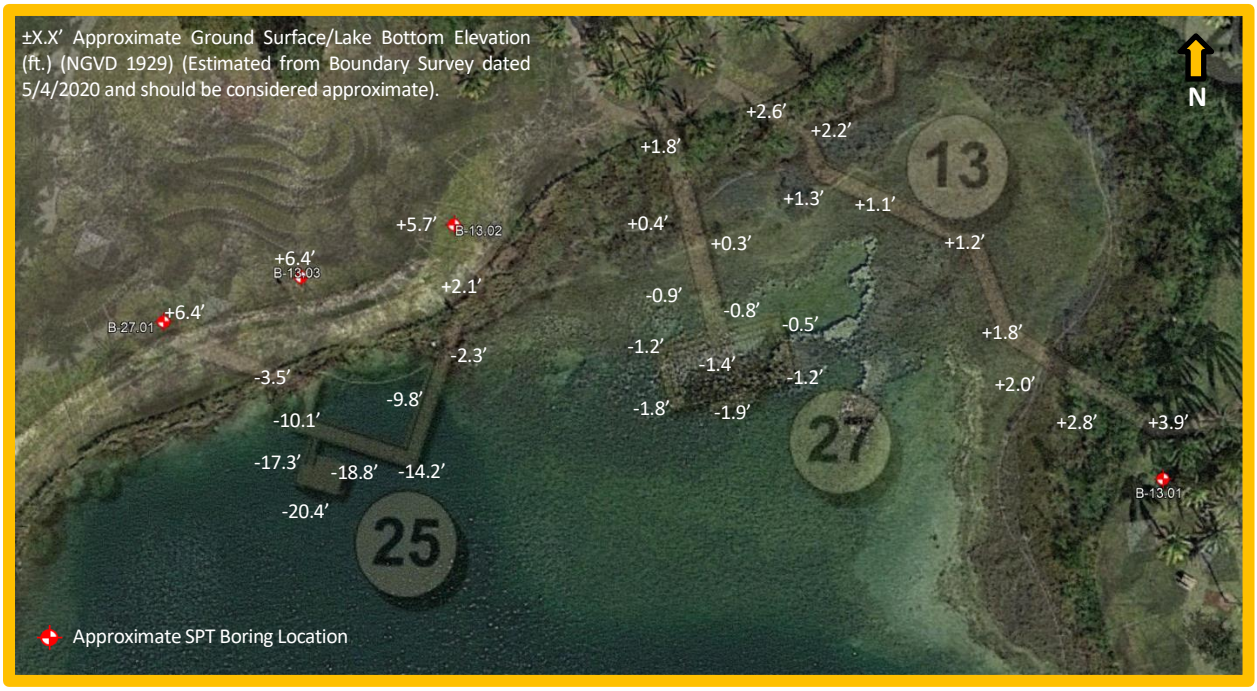


Figure 3.2.3-2 : Canoe/Kayak/Paddle Boat Launch (SE)

We understand that design criteria regarding the type of foundation (e.g. timber, concrete, plastic/composite lumber, etc.), foundation element geometry, structural loading (axial and lateral), etc. is still in progress and was not available at the time this report was prepared. As discussed with the Structural Marine Engineer (Bermello Ajamil & Partners - BA), PSI will perform the pertinent analyses for foundation axial and lateral capacity and revise this geotechnical report once the design information is available. The following table provides the approximate strata depth, approximate strata elevation, and geotechnical design parameters which can be used for the evaluation of these project components (13, 25, 27).

Table 3.2.3-1: Geotechnical Design Parameters (Project Component 13, 25, 27)

Stratum No.	Approximate Average Depth Interval Below Existing Ground Surface (ft.)			[2] Approximate Average Elevation Interval (ft.) (NGVD29)			N_{auto} Value Avg. (bpf)	[7] Unit Weight γ (pcf)		[3, 7] Soil Friction Angle ϕ (°)	[4, 7] Allowable Undrained Shear Strength f_s (ksf)	[5, 7] Modulus of Elasticity E (ksf)	[6, 7] Lateral Modulus of Subgrade Reaction k (pci)
								Total γ	Effect. γ'				
3	0.5	-	1.0	3.5	-	3.0	17	110	48	33	-	420	55
4	0.5	-	2.0	5.5	-	4.0	12	108	46	32	-	210	35
[1] 5	1.0 - 2.0	-	17.5	4.0	-	-11.5	11	115	53	36	-	3500	90
6	17.5	-	22.5	-11.5	-	-16.5	14	109	47	32	-	350	40
[8] 7	22.5	-	75.0	-16.5	-	-69.0	70	125	63	-	9	50000	-

[1] Upper Miami Limestone Formation (Stratum 5) modeled as granular material/sandy gravel (cohesionless) due to the relatively low N-values.

[2] The elevations were extrapolated from the Boundary Survey Plans (by ER. Brownwell & Associates dated 5/4/2018) and should be considered approximate.

[3] *Soil friction angle based on the correlation ϕ=N/4+28 for sandy soils and ϕ=N/4+33 for sandy gravel or Miami Limestone/Stratum 5 (FDOT Soils and Foundation Handbook, Appendix B).*

[4] *Allowable side shear strength of Stratum 7 calculated based on the "Correlation of Ultimate Unit Side-Shear Resistance for South Florida Limestone with SPT-N_{60} Value" by Frizzi and Meyer (2000). A Factor of Safety (FS) of 3.0 was used.*

[5] *Modulus of Elasticity (E) values estimated from ASTM Special Technical Publication 777 (for rock) and AAHSTO LRFD Bridge Design Specifications 8th Edition (for soil).*

[6] *Lateral pile capacity analyses (L-Pile): For cohesionless material, lateral soil modulus of subgrade reaction (k) in accordance with FDOT Soils and Foundation Handbook, Appendix B. For Stratum 7, assume 'Weak Rock Model' with a Rock Quality Designation (RQD) value of 75 percent and a strain factor (K_{rm}) of 0.000275.*

[7] *The geotechnical design parameters are based on empirical correlations between the "N_{safety}" value and the soil and rock strength. Therefore, the "N_{safety}" values were used by multiplying "$N_{automatic}$" by the correction factor of 1.24 (FDOT Soils and Foundation Handbook, Section 4.1).*

[8] *Adhesion should be assumed as zero for Stratum 7.*

3.2.4 LAKE-FRONT PROMENADE

Six SPT borings (B-20.01 to B-20.06) were performed to a depth of 50 feet along the proposed retaining wall (lake-front promenade). Additionally, boring B-21.03 (10 feet deep) was included for the evaluation of the this project component. Borings B-20.01 to B-20.06 were performed based on the park's master plan dated 6/10/20, as previously noted in this report. Based on the latest park's master plan (8/12/20), a pier/deck over water has been added as noted on **Figure 3.2.4-1** below. Design criteria regarding the type of wall (conventional concrete retaining wall, steel or vinyl sheet pile, modular blocks, etc.) or the pier over water was not available at the time this report was prepared. As discussed with the Structural Marine Engineer (BA), PSI will provide the pertinent geotechnical evaluation/recommendations and revise this geotechnical report once the design information is available. Recommendations for soil bearing capacity were provided before in **Table 3.2-1**. The following **Table 3.2.4-1** provides the approximate strata depth and additional geotechnical design parameters which can be used for the evaluation of this project component. Also, **Table 3.2.4-2** that follows provides specific geotechnical design parameters for the pier/deck over water as noted on **Figure 3.2.4-1** below.

Figure 3.2.4-1 : Lake-Front Promenade Pier/Deck Over Water

Table 3.2.4-1: Geotechnical Design Parameters (Lake-Front Promenade)

Stratum No.	Approximate Average Depth Interval Below Existing Ground Surface (ft.)			N_{auto} Value Avg. (bpf)	[7] Unit Weight γ (pcf)		[3,7] Soil Friction Angle ϕ (°)	[4,7] Allowable Undrained Shear Strength f_s (ksf)	Rankine Earth Pressure Coefficients		
					Total γ	Effect. γ'			Active K_a	Passive K_p	At-Rest K_o
[1] Sand Backfill	Behind Wall			-	105	43	30	-	0.333	3.000	0.500
[1] Limerock Backfill	Behind Wall			-	115	53	34	-	0.283	3.537	0.441
3	0.2 to 0.5	-	2.0 to 4.0	16	110	48	33	-	0.295	3.392	0.455
4	0.2	-	2.0	6	104	42	30	-	0.333	3.000	0.500
[2]5	2.0 to 4.0	-	12.5	13	115	53	37	-	0.248	4.022	0.398
6	12.5	-	17.5	13	108	46	32	-	0.307	3.254	0.470
[8]7	17.5	-	50.0	41	125	63	-	5	-	-	-

Table 3.2.4-2: Geotechnical Design Parameters (Lake-Front Promenade Pier/Deck; B-20.03)

Stratum No.	Approximate Average Depth Interval Below Existing Ground Surface (ft.)			[9] Approximate Average Elevation Interval (ft.) (NGVD29)			N_{auto} Value Avg. (bpf)	[7] Unit Weight γ (pcf)		[3,7] Soil Friction Angle ϕ (°)	[4,7] Allowable Undrained Shear Strength f_s (ksf)	[5,7] Modulus of Elasticity E (ksf)	[6,7] Lateral Modulus of Subgrade Reaction k (pci)
								Total γ	Effect. γ'				
3	0.2	-	3.0	4.3	-	1.5	16	110	48	33	-	400	50
[2]5	4.0	-	12.5	1.5	-	-8.0	19	115	53	38	-	4000	90
6	12.5	-	17.5	-8.0	-	-13.0	15	109	47	32	-	370	45
[8]7	17.5	-	50.0	-13.0	-	-45.5	52	125	63	-	7	40000	-

*[1] Backfill material should meet the specifications of **Section 5.1.3** of this report.*

[2] Upper Miami Limestone Formation (Stratum 5) modeled as granular material/sandy gravel (cohesionless) due to the relatively low N-values.

[3] Soil friction angle based on the correlation ϕ=N/4+28 for sandy soils and ϕ=N/4+33 for sandy gravel or Miami Limestone/Stratum 5 (FDOT Soils and Foundation Handbook, Appendix B).

[4] Allowable side shear strength of Stratum 7 calculated based on the "Correlation of Ultimate Unit Side-Shear Resistance for South Florida Limestone with SPT-N_{60} Value" by Frizzi and Meyer (2000). A Factor of Safety (FS) of 3.0 was used.

[5] Modulus of Elasticity (E) values estimated from ASTM Special Technical Publication 777 (for rock) and AAHSTO LRFD Bridge Design Specifications 8th Edition (for soil).

[6] Lateral pile capacity analyses (L-Pile): For cohesionless material, lateral soil modulus of subgrade reaction (k) in accordance with FDOT Soils and Foundation Handbook, Appendix B. For Stratum 7, assume 'Weak Rock Model' with a Rock Quality Designation (RQD) value of 75 percent and a strain factor (K_{rm}) of 0.000275.

[7] The geotechnical design parameters are based on empirical correlations between the "N_{safety}" value and the soil and rock strength. Therefore, the "N_{safety}" values were used by multiplying "$N_{automatic}$" by the correction factor of 1.24 (FDOT Soils and Foundation Handbook, Section 4.1).

[8] Adhesion should be assumed as zero for Stratum 7.

[9] The elevations were extrapolated from the Boundary Survey Plans (by ER. Brownwell & Associates dated 5/4/2018) and should be considered approximate.

3.2.5 AMPHITHEATER STAGE

Three SPT borings (B-07.01 to B-07.03) were performed to a depth of 40 feet for the proposed amphitheater stage. Additionally, boring B-28.02 was used for the evaluation of the proposed adjacent storage building. Recommendations for soil bearing capacity were provided before in **Table 3.2-1**. The following table provides the approximate strata depth and additional geotechnical design parameters which can be used for the evaluation of this project component by the Structural Engineer.

Table 3.2.5-1: Geotechnical Design Parameters (Amphitheater Stage)

Stratum No.	Approximate Average Depth Interval Below Existing Ground Surface (ft.)			N_{auto} Value Average (bpf)	[4] Unit Weight γ (pcf)		[2, 4] Soil Friction Angle ϕ (°)	[3, 4] Allowable Undrained Shear Strength f_s (ksf)
					Total γ	Effect. γ'		
3	0.5	-	2.0	11	107	45	31	-
[1] 5	2.0	-	12.5	16	115	53	38	-
6	12.5	-	17.5	12	107	45	32	-
7	17.5	-	35.0	25	120	58	-	3

[1] Upper Miami Limestone Formation (Stratum 5) modeled as granular material/sandy gravel (cohesionless) due to the relatively low N-values.

[2] Soil friction angle based on the correlation ϕ=N/4+28 for sandy soils and ϕ=N/4+33 for sandy gravel or Miami Limestone/Stratum 5 (FDOT Soils and Foundation Handbook, Appendix B).

[3] Allowable side shear strength of Stratum 7 calculated based on the "Correlation of Ultimate Unit Side-Shear Resistance for South Florida Limestone with SPT-N_{60} Value" by Frizzi and Meyer (2000). A Factor of Safety (FS) of 3.0 was used.

[4] The geotechnical design parameters are based on empirical correlations between the "N_{safety}" value and the soil and rock strength. Therefore, the "N_{safety}" values were used by multiplying "$N_{automatic}$" by the correction factor of 1.24 (FDOT Soils and Foundation Handbook, Section 4.1).

As previously noted, it is our opinion that a shallow foundation system is the most feasible alternative to support this structure. However, we understand that recommendations for augercast piles have been requested by the Structural Engineer. Pressure grouted augercast piles are considered an appropriate type of deep foundation system for the support of the proposed structure. This deep foundation system can be constructed with the least amount of noise/vibration while still providing resistance to compression, uplift, and lateral forces. The capacity of these piles is essentially developed in side shear (skin friction) between the periphery of the grouted pile and the layers of sand and/or limestone through which the piles penetrate. For the amphitheater stage structure, the augercast piles can be designed for the allowable capacities outlined in the following tables:

Table 3.2.5-2: Augercast Pile Axial Capacities (Amphitheater Stage)

Dia. (in.)	[1, 2] Min. Pile Length (ft.)	[2, 3] Min. Rock Socket (ft.)	Allowable Capacity (Tons)		Vertical Spring Constant (kip/in.)	Test Pile Program Required
			Compression	Tension		
14	25	7.5	35	20	70	No
	35	17.5	100	60	200	Yes
16	25	7.5	35	20	70	No
	35	17.5	120	70	240	Yes

[1] The pile should meet both the "Minimum Pile Length" and "Rock Socket" criteria noted in the table above.

[2] The "Minimum Pile Length" refers to length of pile measured from existing ground surface at the time of our field exploration.

[3] "Rock Socket" refers to the length of the pile in contact with the lower Ft. Thompson limestone formation (stratum 7).

[4] We are assuming that the structural design of the augercast piles will include appropriate reinforcing to resist compression and uplift forces as noted herein which should be designed by the structural engineer.

[5] A safety factor of 3.0 against exceeding the ultimate unit skin friction values in the subsurface layers was used in our pile capacity calculations. The pile capacity recommended herein is controlled by stresses developed in the subsurface materials only. Allowable stresses for the selected pile section may impose more stringent restrictions on pile capacity and should be checked by the structural engineer. The structural engineer should determine the minimum compressive strength for the grout in accordance with applicable Building Code requirements.

[6] For an augercast pile supported system (where all piles meet the minimum length and limestone socket criteria noted in Table 3.2.5-2), the settlement of the structures is anticipated to be 1-inch or less, with differential settlements not exceeding ½-inch. Settlement movement will primarily occur as a result of elastic compression in the limestone layers and will take place almost immediately with the application of load.

Table 3.2.5-3: Augercast Pile Lateral Capacities (Amphitheater Stage)

Dia. (in.)	Min. Pile Length (ft.)	Allowable Lateral Capacity (kips)	Max. Bending Moment on Pile (ft-kip)	Max. Lateral Deflection (in.)
14	25	8	25	< 0.5
	35	10	35	< 0.5
16	25	10	35	< 0.5
	35	12	45	< 0.5

[1] Lateral pile analyses were performed using the software L-pile assuming a fixed head pile condition.

[2] We are assuming that the structural design of the augercast piles will include appropriate reinforcing to resist lateral forces as noted herein and should be designed by the structural engineer.

Augercast piles may be constructed after the site preparation recommendations presented in **Section 5.3** of this report have been implemented.

3.2.6 TALL FENCE POSTS

Based on the latest park's master plan (8/12/20), SPT borings B-11.02 to B-11.05, B-28.01, B-30.03, B-31.01, B-31.02, B-31.04, B-31.05, B-33.01, and B-36.01 were selected to provide geotechnical design parameters for the proposed tall fence posts. These posts may be supported on a shallow foundation, a precast concrete deep foundation element, or by installing the posts to an appropriate embedment depth. The following table provides the approximate strata depth and geotechnical engineering parameters which can be used for the evaluation of this project component by the Structural Engineer.

Table 3.2.6-1: Geotechnical Design Parameters (Tall Fence Posts)

Stratum No.	Approximate Average Depth Interval Below Existing Ground Surface (ft.)			N_{auto} Value Average (bpf)	[4] Unit Weight γ (pcf)		[2, 4] Soil Friction Angle ϕ (°)	[3, 4] Allowable Undrained Shear Strength f_s (ksf)
					Total γ	Effect. γ'		
3 & 4	0.5	-	2.0 - 6.0	10	106	44	31	-
[1] 5	2.0 - 6.0	-	12.5	15	115	53	37	-
6	12.5	-	17.5	7	104	42	30	-
7	17.5	-	35.0	21	120	58	-	3

[1] Upper Miami Limestone Formation (Stratum 5) modeled as granular material/sandy gravel (cohesionless) due to the relatively low N-values.

[2] Soil friction angle based on the correlation ϕ=N/4+28 for sandy soils and ϕ=N/4+33 for sandy gravel or Miami Limestone/Stratum 5 (FDOT Soils and Foundation Handbook, Appendix B).

[3] Allowable side shear strength of Stratum 7 calculated based on the "Correlation of Ultimate Unit Side-Shear Resistance for South Florida Limestone with SPT-N_{60} Value" by Frizzi and Meyer (2000). A Factor of Safety (FS) of 3.0 was used.

[4] The geotechnical design parameters are based on empirical correlations between the "N_{safety}" value and the soil and rock strength. Therefore, the "N_{safety}" values were used by multiplying "$N_{automatic}$" by the correction factor of 1.24 (FDOT Soils and Foundation Handbook, Section 4.1).

3.2.7 BELOW GRADE WALLS

Structures with below grade walls (e.g. pool structures) will be subjected to lateral at-rest, passive or active earth pressures. Walls which are restrained at the top and bottom will be subjected to at-rest soil pressures whereas those which are not restrained at the top and where sufficient movement is allowed to be mobilized will be subjected to active or passive earth pressures. Below grade walls must be designed to resist earth pressure from granular backfill, surcharge loads and unbalanced hydrostatic forces.

Recommended equivalent fluid densities for each pressure condition with no allowance for surcharge loads are presented in the following table. Recommendations for soil bearing capacity were provided in **Table 3.2-1**.

Table 3.2.7-1: Equivalent Fluid Densities – Lateral Earth Pressures

[1] Backfill Material (USCS)	Unit Weight γ (pcf)		Soil Friction Angle ϕ (°)	Active Pressure (psf/foot of depth)		Passive Pressure (psf/foot of depth)		At-Rest Pressure (psf/foot of depth)	
	Total γ	Effect. γ'		Above Water Table	[2] Below Water Table	Above Water Table	Below Water Table	Above Water Table	[2] Below Water Table
Sand Backfill (SP, SW, SP-SM, SW-SM)	105	43	30	35	77	315	130	53	84
Limerock Backfill (GP, GW, GP-GM, GW-GM) & #57 Stone	115	53	34	33	77	407	187	51	86

*[1] Backfill material should meet the specifications of **Section 5.1.3** of this report.*

[2] Includes hydrostatic pressure.

3.2.8 POOL UNDERGROUND STRUCTURES

Based on the 'Pool Reference Plan' (Sheet No. AQ000) dated August 31, 2020, we understand that the proposed pool structures and corresponding depths will be as follows:

- **Competition Pool**: Water depth of 13 ft. at deep end of pool, minimum of 14 ft. to bottom of pool floor. Water depth of 7 ft. at shallow end of pool, minimum of 8 ft. to bottom of pool floor.
- **Training Pool**: Water depth of 7 ft. at deep end of pool, minimum of 8 ft. to bottom of pool floor. Water depth of 4 ft. at shallow end of pool, minimum of 5 ft. to bottom of pool floor.
- **Leisure Pool**: Water depth of 4 ft. for pool, minimum of 5 ft. to bottom of pool floor.
- **Lazy River**: Water depth of 3 ft. for river, minimum of 4 ft. to bottom of pool floor.
- **Wading Pool**: Maximum water depth of 9 inches, minimum of 1.5 ft. to bottom of pool floor.
- **Waterslide**: 10 ft. x 24 ft. x 11 ft. deep balance tank located at the end of the waterslides.

Hydrostatic pressures on pool walls and hydrostatic uplift pressure on pool floor slab would govern the proposed pools' design and construction given the pool shell depths (i.e. the competition and training pools, as well as the waterslide balance tank which have depths to bottom of slabs ranging from 8 to 14 feet) and high groundwater levels at this area (2.5 to 3.9 feet below existing grade measured between January and February 2018 and 3.2 to 4.0 feet below existing grade measured in July 2020). The use of an underdrain system to control groundwater and reduce hydrostatic pressures may not be feasible for this project given the regular high groundwater levels, flat topography of the site, and Florida's strict water discharge regulations.

The proposed pool walls and any temporary excavation support system will have to resist lateral earth pressures, unbalanced hydrostatic pressures, and any dead or live load surcharge as noted in **Section 3.2.7**. It should be noted that any excavation in the depth interval of approximately 12.0 to 17.5 feet below the existing grade would most likely result in unstable bottom conditions due to the sand stratum No. 6 found at this depth interval and the uplift forces created once the excavation holes are dewatered. Conventional open cut construction will require dewatering to stabilize the excavation. A tremie concrete seal should then be placed at the bottom of the excavation to provide for a stable working area for the pool construction and to resist uplift forces.

We have evaluated two foundation options to support the pools' shell structure; Option 1 is for supporting the structure on a mat foundation/pool bottom slab, while Option 2 relates to supporting the structure on a deep foundation system (piles), as follows:

Option 1: Support the pool shell structures on a mat foundation/pool bottom slab. The design and construction of the pools' excavation should be performed by a specialty contractor experienced with tremie seal construction in these types of soil/rock conditions. Additionally, the pool shell bottom will need to be designed to resist hydrostatic uplift that otherwise could lift the pool shell or break the bottom shell when pools are empty. See **Sections 3.2.1** and **3.2.2** for Option 1 design recommendations.

Option 2: Support the pool shell structures on an augercast pile system with the piles embedded into the lower Ft. Thompson limestone formation (stratum 7). This system will provide substantial hydrostatic uplift resistance (tension capacity). For the pool shell structures, the augercast piles can be designed for the allowable capacities outlined in the following table:

Table 3.2.8-1: Augercast Piles Axial Capacities (Pool Structures)

Dia. (in.)	[1, 2] Min. Pile Length (ft.)	[2, 3] Min. Rock Socket (ft.)	Allowable Capacity (Tons)		Vertical Spring Constant (kip/in.)	Test Pile Program Required
			Compression	Tension		
14	25	7.5	35	20	70	No

[1] The pile should meet both the "Minimum Pile Length" and "Rock Socket" criteria noted in the table above.

[2] The "Minimum Pile Length" refers to length of pile measured from existing ground surface at the time of our field exploration.

[3] "Rock Socket" refers to the length of the pile in contact with the lower Ft. Thompson limestone formation (stratum 7).

[4] We are assuming that the structural design of the augercast piles will include appropriate reinforcing to resist compression and uplift forces as noted herein which should be designed by the structural engineer.

[5] A safety factor of 3.0 against exceeding the ultimate unit skin friction values in the subsurface layers was used in our pile capacity calculations. The pile capacity recommended herein is controlled by stresses developed in the subsurface materials only. Allowable stresses for the selected pile section may impose more stringent restrictions on pile capacity and should be checked by the structural engineer. The structural engineer should determine the minimum compressive strength for the grout in accordance with applicable Building Code requirements.

Augercast piles may be constructed after the site preparation recommendations presented in **Section 5.3** of this report have been implemented.

3.3 SIDEWALKS AND FLATWORK

For sidewalks or other flatwork located adjacent to grade-supported foundations, the undercutting and select fill placement operations for the structures should extend beyond the perimeter of the structures and pavements to at least the width of the adjacent sidewalk or flatwork. Any other sidewalks or flatwork not adjacent to structures should be placed on an improved subgrade meeting or exceeding the pavement subgrade improvement methods previously recommended. A 12-inch-thick layer of material satisfying the requirements of select fill provided in **Section 5.1.3** must be placed below the sidewalk.

The material should be compacted to 95 percent or greater than the maximum dry unit weight and contain a moisture content between -one and +three percent optimum moisture content. Proper drainage around grade-supported sidewalks and flatwork is also very important to reduce potential movements. Elevating the sidewalks where possible and providing rapid, positive drainage away from them will reduce moisture variations within the underlying soils and will therefore provide valuable benefit in reducing the full magnitude of potential movements from being realized.

4.0 PAVEMENT DESIGN RECOMMENDATIONS

4.1 PAVEMENT DESIGN PARAMETERS

We recommend that the procedures described in **Section 5.0** of this report be used to prepare the subgrade of pavements. Flexible pavement sections in this geographic area typically consist of an asphaltic concrete wearing course, a crushed limestone (limerock) base course and a stabilized subgrade (sub-base). Based on the expected traffic loading and our experience in the area, the minimum pavement section thicknesses noted in **Table 4.1.1** below should be acceptable.

The base course materials in the pavements should consist of crushed limestone having a minimum Limerock Bearing Ratio (LBR) of 100. Base materials should meet the requirements presented in the latest revisions of the Florida Department of Transportation "Specifications for Road and Bridge Construction", Section 911 (limestone). The base course should be compacted to at least 98 percent of the material's maximum dry density (ASTM D-1557). The subgrade should be stabilized to a depth of 12 inches to achieve a minimum LBR of 40. This can be obtained by blending base material (limerock) with the existing subgrade soils. The required mixing ratio should be determined by laboratory testing. The stabilized subgrade should be compacted to at least 95 percent of the maximum dry density (ASTM D-1557). The LBR requirement for the subgrade soils is only required for the "flexible" pavement section.

Where dumpsters are to be located on the pavement, so that considerable load is transferred from relatively small steel supports, it is recommended that rigid concrete pavement be constructed. In addition, the area utilized for unloading the dumpsters by heavy duty-trucks should also be provided with a rigid pavement. A minimum Portland cement concrete pavement thickness of five inches should be used in parking areas (light duty) and six inches in loading areas (heavy duty) if rigid pavements are to be employed. The subgrade soils below concrete pavements should be well-draining granular materials compacted to a minimum density of 98 percent of the modified Proctor maximum dry density (ASTM D-1557). Fill that may be required to raise grades in pavement areas should be compacted to at least 95 percent of the material's maximum dry density (ASTM D-1557).

Actual pavement section thicknesses and the reinforcement details for the rigid pavement section should be provided by the Design Civil Engineer based on traffic loads, volume, and the owner's design life requirements. The noted sections represent minimum thicknesses for typical local construction practices and, as such, periodic maintenance should be anticipated. All pavement materials and construction procedures should conform to FDOT, American Concrete Institute (ACI), or appropriate city/county requirements.

Table 4.1-1: Mimimum Pavement Section Suggestions

Pavement Type	Layer	Material description	Recommended Minimum Layer Thickness (Inches)	
			Light Duty	Heavy Duty
Flexible	(A)	Florida DOT Asphalt Type SP	1.5	2
	(B)	Crushed limestone (limerock) with minimum LBR of 100, compacted to 98 percent of the Modified Proctor maximum dry density	6	8
	(SB)	Stabilized sub-grade (sub-base) fill with a minimum LBR of 40 compacted to 95 percent of the Modified Proctor maximum dry density	12	12
Rigid	(C)	Florida DOT Portland Cement Concrete	5	6
	Fill	Well-draining Granular Fill compacted to 98 percent of the Modified Proctor maximum dry density	12	12
(A) = Asphaltic Concrete, (B) = Base Course, (SB) = Stabilized Sub-grade (Sub-base) (C) = Concrete				

5.0 CONSTRUCTION CONSIDERATIONS

Having a Geotechnical Engineer retained to review the earthwork recommendations in the Contract Documents and be an active participant in team meetings near the time of construction can often result in project cost savings. Therefore, PSI recommends that an AASHTO accredited 3rd party laboratory with qualified professional engineers who specialize in geotechnical engineering be retained to provide observation and testing of construction activities involved in the foundations, earthwork, pavements and related activities of this project. As the Geotechnical Engineer of Record, PSI's services can be retained as the 3rd party laboratory. PSI's participation would be advantageous to the project flow and value engineering during construction since we are most familiar with the existing soil conditions at the site.

The geotechnical engineer (GER) often does not have available all design information at the time of writing the original report since the report is done very early in the design process. The GER can be of great benefit immediately prior to construction since definitive information regarding the location of the different structures, surrounding flatwork, planned landscaping, and drainage features is available. The GER can then write supplement letters to the original geotechnical report often resulting in less risk and project cost savings.

PSI cannot accept responsibility for conditions which deviate from those described in this report, nor for the performance of the foundations or pavements if not engaged to also provide construction observation and materials testing for this project. The PSI geotechnical engineer of record must also be engaged by the Design Team, even if periodic on-call testing is contracted with PSI Construction Services.

5.1 INITIAL SITE PREPARATION CONSIDERATIONS

5.1.1 GENERAL

Based on the results of our field exploration, we anticipate site preparation procedures to include the steps listed below. All work should be carried out in accordance with current regulatory criteria. The earthwork, testing, and foundation inspection required herein should be performed under the supervision of PSI personnel.

1. Site preparation for the proposed development should include the removal of all topsoil, pavement, vegetation and root mat within the project area. All unwanted ground cover or other unsuitable materials should be completely removed from the site and properly disposed of.
2. The location of any existing conflicting underground utility lines within the construction area should be established. Provisions should be made to relocate any interfering utility lines within the construction area. Abandoned utilities should be removed or grouted to reduce the possibility of subsurface erosion that could result in future settlement.
3. The cleared exposed subgrade should be densified as specified in **Section 5.1.2.** Densification of the soils should be performed within the proposed development areas plus a five-foot wide perimeter extending beyond the outside edges, where practical. Densification operations should continue until the subgrade soils are firm and unyielding.
4. Any fill required to raise grades should conform to the recommendations in **Section 5.1.3** of the report.
5. The contractor should anticipate a high resistance to excavation activities (i.e. during the installation of below grade utilities) as limestone was encountered at shallow depths. The limestone formation may require the use of special equipment and breaking tools during construction excavation work, installation of well points (if required for dewatering) and associated earthwork activities.

6. Excavations (e.g. utility and exfiltration trenches, etc.) into the Miami limestone formation (Stratum 5) must not be performed within the stress influence zone of the foundation defined as 1(H):1(V) projection from the bottom of any foundation level.
7. It is mandated by federal regulations that all excavations, whether they be utility trenches, footings/pile caps excavations, be constructed in accordance with the OSHA guidelines. It is our understanding that these regulations are being strictly enforced and if they are not closely followed, the owner and the contractor could be liable for substantial penalties.

5.1.2 IN-SITU DENSIFICATION

Following initial site preparation and clearing activities and after the ground improvement is compacted, in-situ densification of the subgrade soils should be performed in the proposed development areas plus a five-foot-wide perimeter extending beyond the outside edges of the construction areas, where practical. Densification should be accomplished with a self-propelled vibratory roller which imparts a dynamic force of not less than 20 tons.

To minimize the effects of compaction induced vibrations on adjacent existing structures, the compaction operations should be limited to a distance not closer than 25 feet from existing structures (subject to field adjustment as necessary). The maximum drum roller weight to be used between five to 25 feet from existing structures should be limited to four tons. For distances of less than five feet, a walk behind vibratory sled or roller should be used. Compaction of the bearing surface using this equipment should continue until no further vertical settlement of that surface is visually discernible. Any area of the exposed surface that deflects excessively under the weight of the compaction equipment should be excavated approximately 24 inches and replaced with compacted structural fill. Density control should be exercised in the upper 12 inches of the compacted subgrade. Soils in this interval should be compacted to at least 95 percent of the Modified Proctor maximum dry density determined per ASTM D-1557. Frequent wetting of the subgrade may be necessary during the rolling operations to prevent drying and loosening of the upper six to 12 inches of soil.

5.1.3 STRUCTURAL FILL AND BACKFILL

Structural fill should be free of organic matter and consist of granular material containing less than 12 percent passing by dry weight the U.S. Standard No. 200 mesh sieve. The fill material may be composed of either clean sands and/or limerock. The fill material should have no particle size in excess of three inches and have a Unified Soil Classification System (USCS) designation of GP, GW, GP-GM, GW-GM, SP, SW, SP-SM or SW-SM.

Structural fill should be placed in level lifts not exceeding 12 inches in loose thickness. Each lift should be compacted to at least 95 percent of the Modified Proctor maximum dry density near the optimum moisture content as determined by ASTM D-1557. Fill to be compacted with a vibratory plate tamper or a small walk behind vibratory roller should be placed in lifts not exceeding six inches in loose thickness. In place density tests should be performed by a qualified soils technician working under the supervision of a geotechnical engineer in accordance with appropriate ASTM procedures. Any fill indicating less than the recommended relative compaction should be recompacted until the required density is obtained prior to the placement of subsequent fill lifts or pouring concrete for substructures.

Structural fill or backfill placed below the water table and to a height of one foot above it should consist of a combination of FDOT No. 57 Stone and structural fill material mixed in an approximate 50 percent proportion by volume. Density testing will not be required within this layer; however, the subgrade preparation work should be observed by a representative from our office to confirm that the material is in a stable and unyielding condition. The use of a commercially available fill material by the name “Cyclone Sand” should not be permitted for the project. Cyclone sand contains large amounts of fines and is therefore very sensitive to moisture. The moisture sensitivity of the material makes it difficult to compact and achieve the desired densities.

5.1.4 GROUNDWATER CONTROL

Groundwater control may be required for construction excavations at this site for either excavation dewatering or removal of temporarily perched water from a rain event, such water can be controlled by pumping from sumps located in ditches or pits. Groundwater should be maintained at the following levels:

1. At least one foot below the bottom of any excavation made during construction operations and
2. At least two feet below the surface of any vibratory compaction operations.

Dewatering with well points might be used for deeper excavations or when required to facilitate construction. Dewatering systems should be designed and operated so as not to impact adjacent construction. Additionally, the discharge from dewatering systems should be handled in accordance with current regulatory criteria as related to the same. The dewatering systems shall be evaluated and designed by a specialty dewatering contractor.

5.2 SHALLOW FOUNDATION CONSTRUCTION

5.2.1 SHALLOW FOUNDATION CONSTRUCTION ON COMPACTED GRANULAR SOILS

It is recommended that the soils exposed at the bottom of the footing excavations be compacted to at least 95 percent of the Modified Proctor maximum dry density just before pouring concrete. If the footing bearing materials become disturbed due to surface water resulting from precipitation and/or runoff, the disturbed soils should be over-excavated and replaced with compacted limerock which is densified to at least 95 percent of the materials Modified Proctor maximum dry density as determined by ASTM designation D-1557. All open foundation excavations should be observed and approved by a licensed geotechnical engineer or his representative prior to pouring concrete.

5.2.2 SHALLOW FOUNDATION CONSTRUCTION ON THE NATURAL LIMESTONE FORMATION

The bottom of the foundation excavations should be observed by a geotechnical engineer from PSI to verify the integrity of the limestone. In lieu place of compaction, the exposed limestone should be observed and inspected for solution cavities and areas of severely fractured or weathered limestone. If pockets of loose or soft soils or solution features in the form of slots or chimneys are found in the carbonate rock formation, they should be excavated to a depth of three times the feature width or diameter, where applicable, and backfilled with lean concrete or grout.

If the natural limestone formation is below the design foundation bearing level, lean concrete should be used to bring the surface to the final level. The lean concrete should be placed within the footing areas, plus a minimum distance of 0.5 times the distance between the limestone surface and the final footing grade extending beyond the outer lines of the foundation. We recommend that a minimum set-time of one day is required between the placement of lean concrete and initiation of work relating to the footing. Alternatively, the construction procedures involved in the application of lean concrete can be avoided by pouring the concrete for the footing monolithically using a single formwork and thickening the foundation so that it bears on the natural limestone formation.

All open foundation excavations should be observed and approved by a licensed geotechnical engineer or his representative prior to pouring concrete.

5.3 AUGERCAST PILES CONSTRUCTION RECOMMENDATIONS

5.3.1 AUGERCAST PILE INSTALLATION

Recommendations for augercast pile installation are presented in this section of our report.

1. We recommend that the piles be spaced at least 2.5 pile diameters center-to-center to minimize pile capacity reduction caused by group effects. A placement tolerance with respect to the design center of three inches should be specified for groups of piles and one inch for isolated piles unless more stringent construction positioning is required. Out-of-plumbness for the piling should be limited to two percent maximum.

2. The 28-day compressive strength of the grout used in the piles has been determined by the Structural Engineer in accordance with applicable Building Code requirements.

3. In order to provide some assurance that the piles have been constructed with a continuous cross section a full-length steel reinforcing bar or cage should be installed at the center of each pile immediately after grouting. Centralizers should be attached to individual bars at the bottom and at third points along the length of the bar.

4. Piles subjected to uplift due to wind load or hydrostatic uplift pressure must be provided with adequate reinforcing steel throughout their entire length. Similarly, laterally loaded piles should be provided with adequate reinforcement in order for such piles to resist shear forces.

5.3.2 DRILLING AND GROUTING

Augercast piles are constructed by rotating a hollow-stem continuous flight auger into the ground until the planned tip depth or termination criterion is achieved. At the termination depth, a grout with high fluidity is pumped under pressure into the hole through the hollow stem auger. As long as pressure is observed in the line, the auger is slowly withdrawn up the hole and the augercast shaft is constructed. Grout volumes, possibly up to 1.5 times the theoretical pile volume, may be required for proper pile installation. The grout factor is defined as the actual volume of grout pumped into the pile divided by the theoretical volume of the drilled hole.

After achieving the desired depth, a positive grout pressure should be observed prior to initiating withdrawal of the auger. A continuous fluid return consisting of slurry and then grout at the top of the hole is the best indication that the desired pressure head is being achieved. The auger should be withdrawn slowly so that a positive grout pressure is maintained in the hole at all times during auger withdrawal. If the withdrawal of the auger becomes erratic, grout pressure suddenly drops, or if the grout flow is interrupted, the auger tip should be reinserted at least five feet below the level where the grouting operation was disrupted prior to resuming withdrawal of the auger.

The installation of adjacent piles located within three diameters of each other on the same working day is not recommended at this site due to the potential existence of inter-connected pores or cavities in the vuggy limestone layers. We recommend that adjacent piles located within three diameters of each other not be installed until the initial grouted pile has set overnight.

Some subsidence of fresh grout may occur in the top of the piles. This subsidence is in-part a result of the weight of the grout column "pushing" laterally into pores in the limestone layers. We anticipate that subsidence will occur within a period of approximately two hours following the grouting operation. If subsidence occurs while the pile grout is in a fluid state, we recommend that the pile be immediately filled with fresh grout to the proper cutoff elevation. We recommend that a pile grout subsidence of up to eight inches be considered acceptable. Grout should not be pumped into the piles when it is older than 90 minutes from the time it was batched.

Prior to actual installation of the piles, the contractor should demonstrate that the materials and equipment proposed for use are capable of installing the production piles and assuring hole stability while doing the work. The contractor should provide an accurate method of determining the depth and alignment of the auger.

5.3.3 AUGERCAST PILE MONITORING

Successful augercast pile installation is in large part dependent upon the expertise of the contractor and the techniques he uses. Because of the possibility of soil intrusion during auger withdrawal and nonvertical piles, the job specifications must be carefully prepared and continuous observations made of the installation.

Full-time observations must be maintained during pile installation to monitor depths and the amount of grout pumped versus the rate of auger withdrawal. The full-time monitoring of pile installation will provide a degree of assurance that continuous piles of the proper cross-section are being constructed.

We recommend that the grout pump should be calibrated prior to initiation of production pile installation. At least one set of six, 2-inch cubes or three-inch diameter by 6-inch high grout cylinders should be made for each 50 cubic yards of grout pumped.

5.3.4 TEST PILE PROGRAM

If required as noted in **Table 3.2.5-2**, we recommend that at least one static compression load test and one static tensile load test be performed for this project. The test pile should be positioned at non-production locations and should be subjected to full scale static compression (ASTM D1143) and static tensile load tests (ASTM D3689) pursuant to the requirements of ASTM and the Florida Building Code under the direct supervision of a geotechnical engineer from this office. The reaction piles for the test set up may be positioned at production pile locations. The piles shall be loaded in compression and tension to at least two times the design load in accordance with loading Procedure B (Maintained Test).

5.4 EXCAVATION OBSERVATIONS

Excavations should be observed by a representative of PSI prior to continuing construction activities in those areas. PSI needs to assess the encountered materials and confirm that site conditions are consistent with those discussed in this report. This is especially important to identify the condition and acceptability of the exposed subgrades under foundations and other structures that are sensitive to movement. Soft or loose soil zones encountered at the bottom of the excavations should be removed to the level of competent soils as directed by the Geotechnical Engineer or their representative. Cavities formed as a result of excavation of soft or loose soil zones should be backfilled with compacted select fill or lean concrete.

After opening, excavations should be observed, and concrete should be placed as quickly as possible to avoid exposure to wetting and drying. Surface run-off water should be drained away from the excavations and not be allowed to pond. Excavations left open for an extended period of time (greater than 24 hours) should be protected to reduce evaporation or entry of moisture.

5.5 DRAINAGE CONSIDERATIONS

Water should not be allowed to collect in foundation excavations, on foundation surfaces, or on prepared subgrades within the construction area during or after construction. Proper drainage around grade supported sidewalks and flatwork is important to reduce potential movements. Excavated areas should be sloped toward one corner to facilitate removal of collected rainwater, groundwater, or surface runoff. Providing rapid, positive drainage away from buildings reduces moisture variations within the underlying soils and will aid in reducing the magnitude the of potential movements.

5.6 EXCAVATIONS AND TRENCHES

It should be noted that excavation equipment capabilities and field conditions may vary. Geologic processes are erratic and large variations can occur in small vertical and/or lateral distances. Details regarding "means and methods" to accomplish the work (such as excavation equipment and technique selection) are the sole responsibility of the project contractor. The comments contained in this report are based on small diameter borehole observations. The performance of large excavations may differ as a result of the differences in excavation sizes. The Occupational Safety and Health Administration (OSHA) Safety and Health Standards (29 CFR Part 1926, Revised October 1989), require that excavations be constructed in accordance with the current OSHA guidelines. Furthermore, the State of FL requires that detailed plans and specifications meeting OSHA standards be prepared for trench and excavation retention systems used during construction. PSI understands that these regulations are being strictly enforced, and if they are not closely followed, the owner and the contractor could be liable for substantial penalties. The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of both the excavation sides and bottom. The contractor's "responsible person", as defined in 29 CFR Part 1926, should evaluate the soil exposed in the excavations as part of the contractor's safety procedures. In no case should slope height, slope inclination, or excavation depth, including utility trench excavation depth, exceed those specified in local, State, and Federal safety regulations. PSI is providing this information as a service to the client. PSI does not assume responsibility for construction site safety or the contractor's or other parties' compliance with local, State, and Federal safety or other regulations. A trench safety plan was beyond the scope of our services for this project.

6.0 REPORT LIMITATIONS

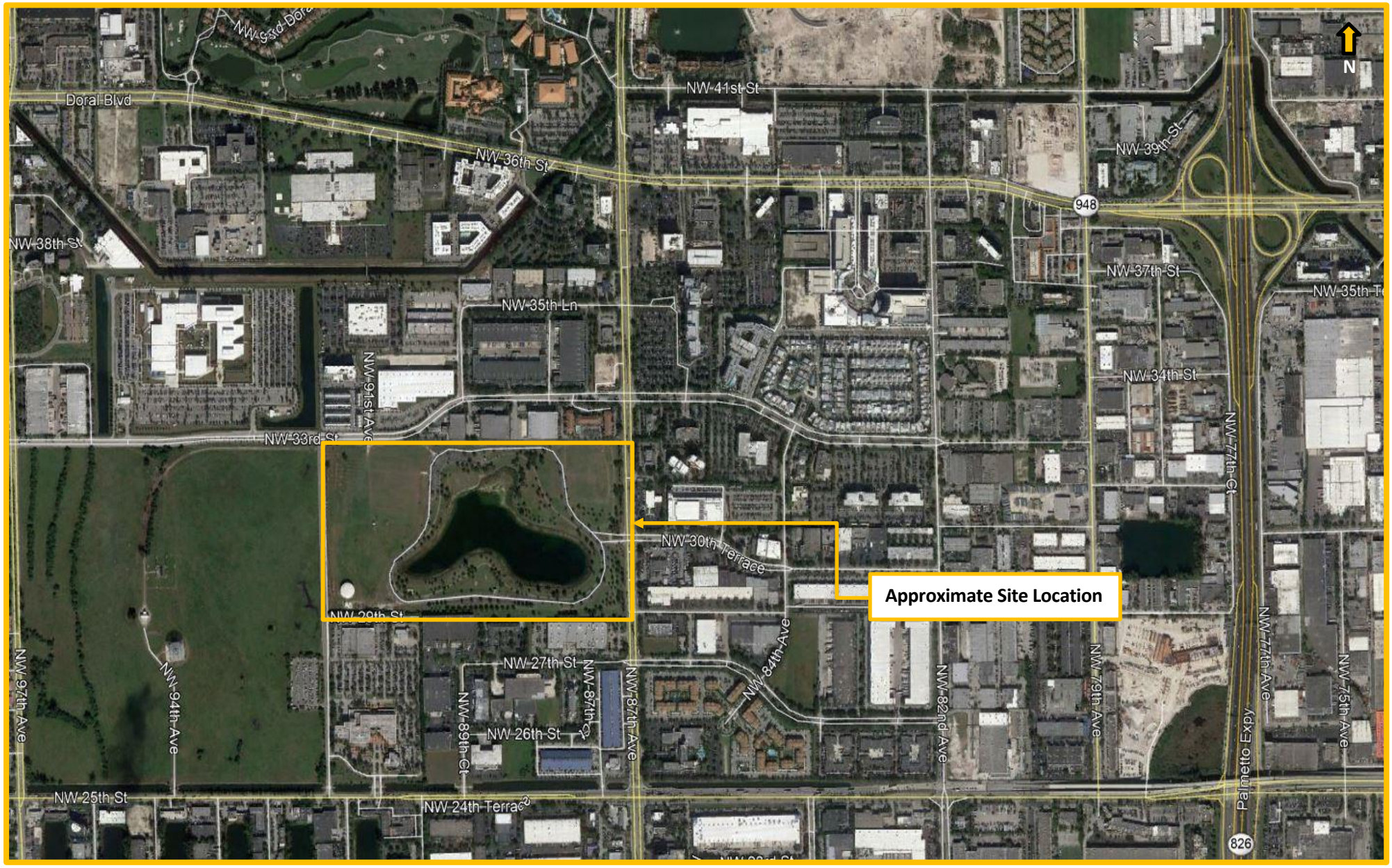
The recommendations submitted in this report are based on the available subsurface information obtained by PSI and design details furnished by the client for the proposed project. If there are revisions to the plans for this project, changes of the structural loads or if deviations from the subsurface conditions noted in this report are encountered during construction, PSI should be notified immediately to determine if changes in the foundation recommendations are required. If PSI is not notified of such changes, PSI will not be responsible for the impact of those changes on the project.

The Geotechnical Engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional Geotechnical Engineering practices in the local area. No other warranties are implied or expressed. This report may not be copied without the expressed written permission of PSI.

After the plans and specifications are more complete, the Geotechnical Engineer should be retained and provided the opportunity to review the final design plans and specifications to check that the engineering recommendations have been properly incorporated in the design documents. At this time, it may be necessary to submit supplementary recommendations. If PSI is not retained to perform these functions, PSI will not be responsible for the impact of those conditions on the project.

This report has been prepared for the exclusive use of Pevida Highway Designers (PHD) and its design consultants for specific application to the proposed Doral Central Park development to be constructed at 3000 NW 87th Avenue in the City Doral, Miami-Dade County, Florida.

APPENDIX A



Map Source: Google Earth
Imagery Date: 12/16/2018

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7950 NW 64th Street
Miami, FL 33166
(305) 471-7725

Figure 1: Site Vicinity Map
PSI Project No.: 0397-1537

DORAL CENTRAL PARK
3000 NW 87th AVENUE
DORAL, FLORIDA

Approximate Location of SPT Boring

Approximate Location of SPT Boring with Percolation Test

Approximate Location of SPT Boring (2018 Borings by PSI)

Approximate Location of Double Ring Infiltrometer (DRI) Test with SPT Boring

Boring Locations - Proposed Park Plan

Map Source: Doral Central Park Master Plan
Dated: August 12, 2020

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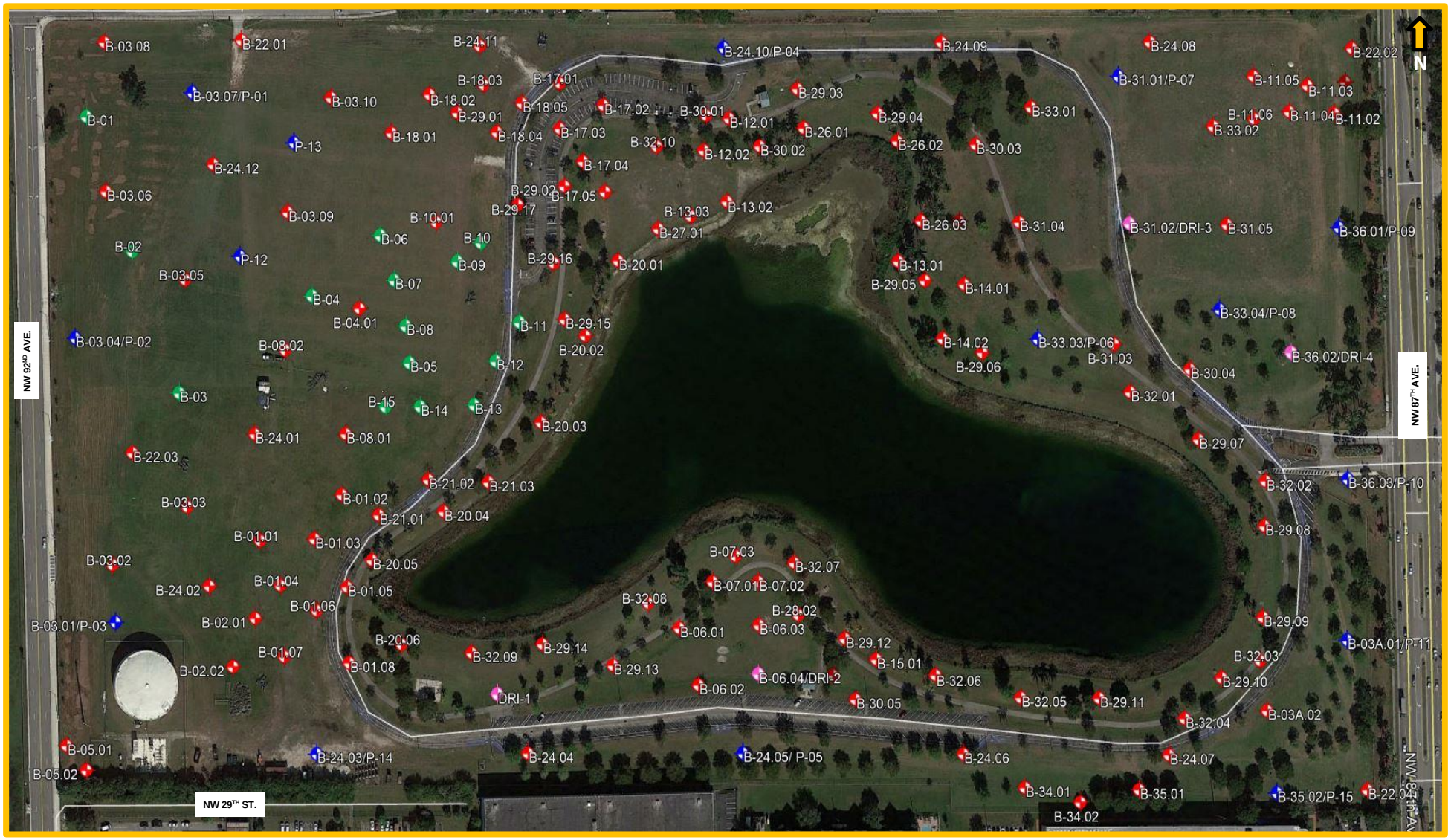
Figure 2A: Boring Location Plan
PSI Project No.: 0397-1537

DORAL CENTRAL PARK
3000 NW 87th AVENUE
DORAL, FLORIDA



Boring Locations - Existing Park

Map Source: Google Earth
Imagery Date: 12/16/2018

- **Approximate Location of SPT Boring**
- **Approximate Location of SPT Boring with Percolation Test**
- **Approximate Location of SPT Boring (2018 Borings by PSI)**
- **Approximate Location of Double Ring Infiltrometer (DRI) Test with SPT Boring**

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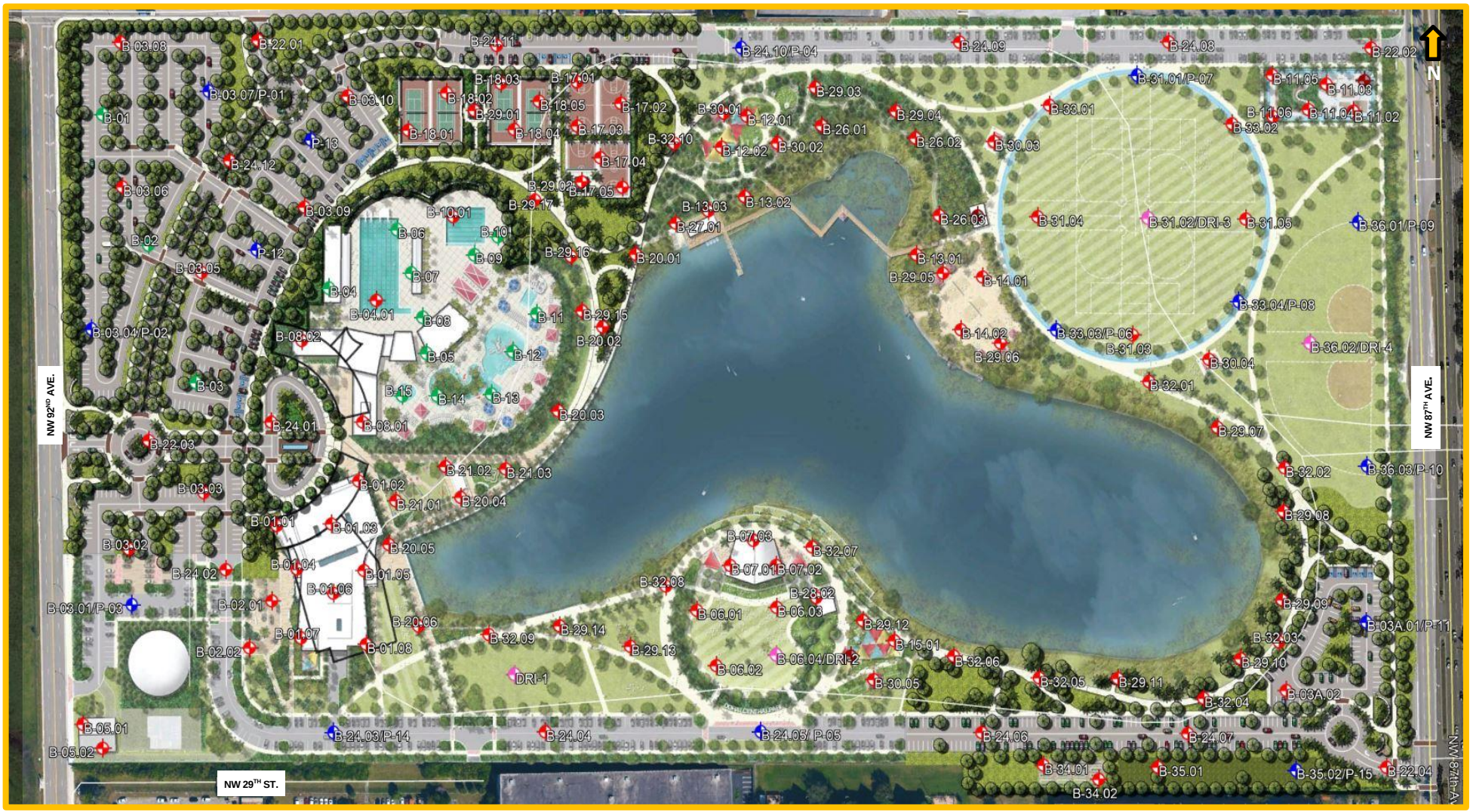
Figure 2B: Boring Location Plan
PSI Project No.: 0397-1537

DORAL CENTRAL PARK
3000 NW 87th AVENUE
DORAL, FLORIDA



- Approximate Location of SPT Boring
- Approximate Location of SPT Boring with Percolation Test
- Approximate Location of SPT Boring (2018 Borings by PSI)
- Approximate Location of Double Ring Infiltrometer (DRI) Test with SPT Boring

Boring Locations – Plan Used to Conduct the Field Exploration (6/10/20)
(For Information Purposes Only)

Map Source: Doral Central Park Master Plan
Dated: June 10, 2020

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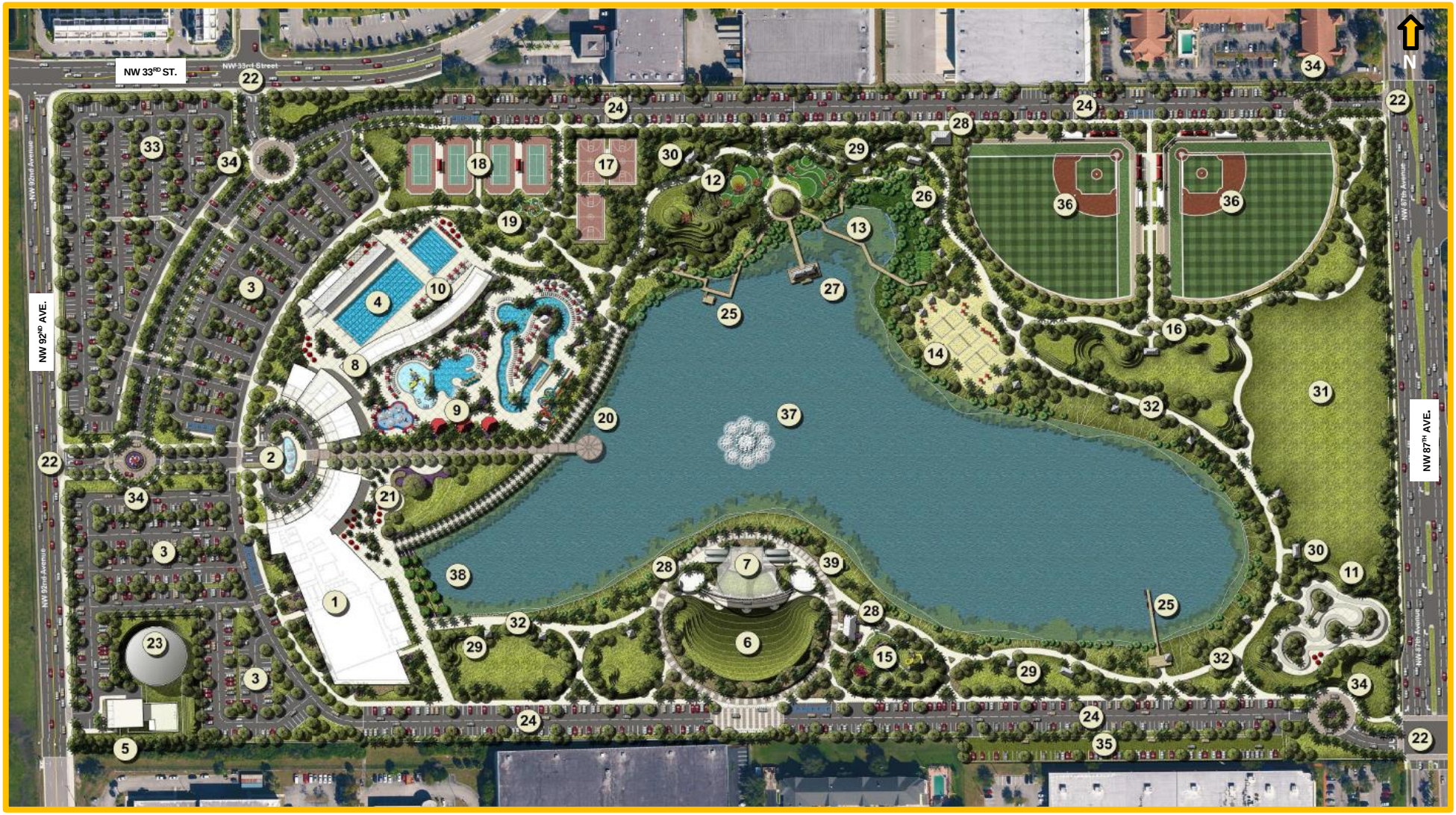
Figure 2C: Boring Location Plan
PSI Project No.: 0397-1537

DORAL CENTRAL PARK
3000 NW 87th AVENUE
DORAL, FLORIDA



1. 70,987 sf Indoor Recreation Center
2. Dedicated Drop-Off Plaza
3. Surface Parking Lot
4. Competition Pool
5. Park Maintenance Storage Building
6. Sloping Event Lawn with Perimeter Berm
7. Amphitheater with Stage & VIP Area
8. Aquatics Center
9. Recreational Pool Deck
10. Competition Pool Deck
11. Skate Spot and Pump Track
12. Sensory Playscape
13. Nature Boardwalk Trail
14. Lake-Front Sand Volleyball
15. Playground/Playscape
16. Learn-to-Bike Loop
17. Basketball Courts (3)
18. Tennis Courts (4)
19. Small Tot-Lot
20. Lake-Front Promenade
21. Cultural Plaza w/ Sculptural Play Piece
22. Primary Vehicular Entrance
23. Existing Water Storage
24. Perimeter Roads w/ On-Street Parking
25. Canoe/Kayak/Paddle Boat Launch
26. Natural Area w/Nature Trails
27. Nature Pavilion
28. Restroom Buildings (3)
29. Small Picnic Shelter (18)
30. Large Picnic Shelter (5)
31. Multipurpose Open Field
32. Lake-Front Trail
33. Overflow Surface Parking Lot
34. Vehicular Roundabouts
35. Overflow Turf Parking Area
36. Ball Fields (2)
37. Lake Fountain
38. Lake Steps
39. Amphitheater Storage Building

Map Source: Doral Central Park Master Plan Dated: August 12, 2020

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Figure 3: Project Components Plan - Legend
PSI Project No.: 0397-1537

DORAL CENTRAL PARK
3000 NW 87th AVENUE
DORAL, FLORIDA

TABLE 1: SUMMARY OF FIELD TEST LOCATIONS
DORAL CENTRAL PARK
3000 NW 87th AVENUE, DORAL, FLORIDA
PSI PROJECT NO. 0397-1537

BORING NUMBER	[1] LATITUDE	[1] LONGITUDE	[2] BORING DEPTH (FT.)	[2] GROUNDWATER DEPTH (FT.)	DATE PERFORMED
B-01	25.803922°	-80.344897°	40.0	3.3	1/5/18
B-02	25.803285°	-80.344631°	40.0	3.2	1/5/18
B-03	25.802616°	-80.344358°	40.0	2.3	1/5/18
B-04	25.803075°	-80.343586°	25.0	3.3	2/6/18
B-05	25.802758°	-80.343021°	25.0	3.2	2/6/18
B-06	25.803361°	-80.343191°	40.0	3.8	1/6/18
B-07	25.803149°	-80.343108°	30.0	3.9	1/6/18
B-08	25.802933°	-80.343042°	40.0	3.2	2/6/18
B-09	25.803237°	-80.342742°	40.0	3.7	1/6/18
B-10	25.803326°	-80.342606°	40.0	3.7	1/6/18
B-11	25.802951°	-80.342381°	25.0	2.7	2/3/18
B-12	25.802767°	-80.342519°	25.0	2.6	2/3/18
B-13	25.802559°	-80.342644°	25.0	2.5	2/3/18
B-14	25.802551°	-80.342958°	25.0	2.8	2/3/18
B-15	25.802551°	-80.343161°	25.0	3.3	2/6/18
B-01.01	25.801916°	-80.343887°	50.0	4.7	6/27/20
B-01.02	25.802133°	-80.343413°	50.0	4.5	6/29/20
B-01.03	25.801924°	-80.343571°	50.0	4.6	6/27/20
B-01.04	25.801705°	-80.343771°	50.0	3.8	6/27/20
B-01.05	25.801698°	-80.343383°	50.0	4.0	6/29/20
B-01.06	25.801586°	-80.343559°	50.0	3.6	6/27/20
B-01.07	25.801368°	-80.343747°	50.0	3.7	6/29/20
B-01.08	25.801339°	-80.343371°	50.0	4.0	6/29/20
B-02.01	25.801549°	-80.343916°	6.0	3.8	7/7/20
B-02.02	25.801321°	-80.344046°	6.0	3.8	7/8/20
B-03.01/P-03	25.801532°	-80.344731°	15.0	3.8	7/8/20
B-03.02	25.801802°	-80.344745°	6.0	3.8	7/7/20
B-03.03	25.802076°	-80.344311°	6.0	3.9	7/8/20
B-03.04/P-02	25.802875°	-80.344964°	15.0	3.6	7/8/20
B-03.05	25.803149°	-80.344323°	6.0	3.7	7/7/20
B-03.06	25.803567°	-80.344784°	6.0	3.8	7/24/20
B-03.07/P-01	25.804035°	-80.344284°	15.0	3.7	7/8/20
B-03.08	25.804271°	-80.344793°	6.0	4.3	8/5/20
B-03.09	25.803468°	-80.343728°	6.0	3.8	7/6/20
B-03.10	25.804010°	-80.343477°	6.0	3.7	7/6/20
P-12	25.803262°	-80.344006°	15.0	3.2	8/4/20
P-13	25.803798°	-80.343693°	15.0	3.4	8/4/20
B-03A.01/P-11	25.801448°	-80.337573°	15.0	6.3	8/4/20
B-03A.02	25.801113°	-80.338036°	6.0	2.6	6/27/20
B-04.01	25.803014°	-80.343311°	30.0	3.8	7/6/20
B-05.01	25.800948°	-80.345012°	20.0	3.8	7/7/20
B-05.02	25.800832°	-80.344898°	20.0	3.6	7/7/20

TABLE 1: SUMMARY OF FIELD TEST LOCATIONS
DORAL CENTRAL PARK
3000 NW 87th AVENUE, DORAL, FLORIDA
PSI PROJECT NO. 0397-1537

BORING NUMBER	[1] LATITUDE	[1] LONGITUDE	[2] BORING DEPTH (FT.)	[2] GROUNDWATER DEPTH (FT.)	DATE PERFORMED
B-06.01	25.801503°	-80.341453°	10.0	3.6	7/1/20
B-06.02	25.801234°	-80.341341°	10.0	2.7	7/2/20
B-06.03	25.801518°	-80.340991°	10.0	2.3	7/2/20
B-06.04/DRI-2	25.801286°	-80.340992°	10.0	2.3	7/2/20 & 8/5/20
DRI-1	25.801191°	-80.342509°	-	4.8	8/5/20
B-07.01	25.801722°	-80.341259°	40.0	3.6	7/1/20
B-07.02	25.801723°	-80.340993°	40.0	3.3	7/1/20
B-07.03	25.801844°	-80.341125°	40.0	3.8	7/1/20
B-08.01	25.802421°	-80.343391°	25.0	3.3	7/6/20
B-08.02	25.802817°	-80.343742°	25.0	3.5	7/6/20
B-10.01	25.803422°	-80.342864°	30.0	4.0	7/6/20
B-11.01	25.804084°	-80.337583°	10.0	4.4	7/27/20
B-11.02	25.803936°	-80.337647°	10.0	4.6	7/27/20
B-11.03	25.804067°	-80.337803°	10.0	5.6	7/27/20
B-11.04	25.803943°	-80.337908°	10.0	6.7	7/27/20
B-11.05	25.804111°	-80.338117°	10.0	6.2	7/27/20
B-11.06	25.803909°	-80.338112°	10.0	6.3	7/27/20
B-12.01	25.803912°	-80.341164°	15.0	4.0	7/20/20
B-12.02	25.803761°	-80.341311°	15.0	3.8	7/20/20
B-13.01	25.803236°	-80.340181°	75.0	2.2	7/15/20
B-13.02	25.803521°	-80.341176°	75.0	3.0	7/8/20
B-13.03	25.803451°	-80.341386°	75.0	3.7	7/16/20
B-14.01	25.803128°	-80.339797°	10.0	2.9	7/15/20
B-14.02	25.802871°	-80.339922°	10.0	3.8	7/15/20
B-15.01	25.801355°	-80.340308°	15.0	4.7	7/2/20
B-15.02	25.801281°	-80.340561°	15.0	3.8	7/2/20
B-17.01	25.804078°	-80.342146°	10.0	4.3	7/24/20
B-17.02	25.803974°	-80.341893°	10.0	4.4	7/24/20
B-17.03	25.803864°	-80.342147°	10.0	4.6	7/24/20
B-17.04	25.803709°	-80.342012°	10.0	3.3	7/20/20
B-17.05	25.803564°	-80.341884°	10.0	2.6	7/24/20
B-18.01	25.803843°	-80.343125°	10.0	3.5	7/6/20
B-18.02	25.804025°	-80.342904°	10.0	3.7	7/6/20
B-18.03	25.804071°	-80.342588°	10.0	3.7	7/6/20
B-18.04	25.803846°	-80.342512°	10.0	3.4	7/6/20
B-18.05	25.803984°	-80.342367°	10.0	4.4	7/24/20
B-20.01	25.803239°	-80.341808°	50.0	3.6	7/21/20
B-20.02	25.802885°	-80.341999°	50.0	3.5	7/23/20
B-20.03	25.802475°	-80.342256°	50.0	4.8	6/30/20
B-20.04	25.802054°	-80.342822°	50.0	5.0	6/30/20
B-20.05	25.801825°	-80.343238°	50.0	4.3	6/30/20
B-20.06	25.801426°	-80.343066°	50.0	4.8	6/30/20

TABLE 1: SUMMARY OF FIELD TEST LOCATIONS
DORAL CENTRAL PARK
3000 NW 87th AVENUE, DORAL, FLORIDA
PSI PROJECT NO. 0397-1537

BORING NUMBER	[1] LATITUDE	[1] LONGITUDE	[2] BORING DEPTH (FT.)	[2] GROUNDWATER DEPTH (FT.)	DATE PERFORMED
B-21.01	25.802037°	-80.343199°	10.0	3.2	7/24/20
B-21.02	25.802205°	-80.342911°	10.0	3.0	7/23/20
B-21.03	25.802193°	-80.342561°	10.0	3.0	7/23/20
B-22.01	25.804282°	-80.343997°	6.0	3.8	7/24/20
B-22.02	25.804243°	-80.337544°	6.0	4.6	8/5/20
B-22.03	25.802331°	-80.344631°	6.0	3.8	7/7/20
B-22.04	25.800739°	-80.337454°	6.0	2.4	6/27/20
B-24.01	25.802421°	-80.343921°	6.0	3.6	7/7/20
B-24.02	25.801701°	-80.344184°	6.0	3.8	7/7/20
B-24.03/P-14	25.800910°	-80.343561°	15.0	3.7	7/8/20
B-24.04	25.800911°	-80.342331°	6.0	3.6	7/24/20
B-24.05/P-05	25.800914°	-80.341084°	15.0	2.4	8/4/20
B-24.06	25.800908°	-80.339801°	6.0	3.7	7/2/20
B-24.07	25.800903°	-80.338607°	6.0	3.2	6/27/20
B-24.08	25.804273°	-80.338718°	6.0	4.4	8/5/20
B-24.09	25.804271°	-80.339929°	6.0	3.8	8/3/20
B-24.10/P-04	25.804247°	-80.341197°	15.0	3.1	8/4/20
B-24.11	25.804255°	-80.342612°	6.0	3.0	7/24/20
B-24.12	25.803694°	-80.344161°	6.0	3.8	7/6/20
B-26.01	25.803866°	-80.340729°	6.0	3.6	8/3/20
B-26.02	25.803805°	-80.340185°	6.0	3.5	8/3/20
B-26.03	25.803427°	-80.340047°	6.0	3.6	8/3/20
B-27.01	25.803391°	-80.341575°	20.0	3.3	7/20/20
B-28.01	25.803426°	-80.339825°	20.0	3.3	7/20/20
B-28.02	25.801565°	-80.340761°	20.0	2.0	7/2/20
B-29.01	25.803939°	-80.342742°	10.0	3.6	7/6/20
B-29.02	25.803591°	-80.342121°	10.0	3.3	7/21/20
B-29.03	25.804051°	-80.340766°	10.0	3.6	7/20/20
B-29.04	25.803936°	-80.340301°	10.0	3.6	7/20/20
B-29.05	25.803146°	-80.340025°	10.0	2.7	7/15/20
B-29.06	25.802805°	-80.339692°	10.0	3.5	7/15/20
B-29.07	25.802395°	-80.338435°	10.0	3.3	7/16/20
B-29.08	25.801986°	-80.338051°	10.0	4.6	7/16/20
B-29.09	25.801554°	-80.338061°	10.0	4.3	7/16/20
B-29.10	25.801268°	-80.338301°	10.0	4.8	7/2/20
B-29.11	25.801172°	-80.339012°	10.0	4.8	7/2/20
B-29.12	25.801453°	-80.340491°	10.0	3.2	7/2/20
B-29.13	25.801328°	-80.341838°	10.0	3.8	7/1/20
B-29.14	25.801428°	-80.342248°	10.0	4.5	7/1/20
B-29.15	25.802962°	-80.342118°	10.0	3.3	7/21/20
B-29.16	25.803228°	-80.342181°	10.0	3.2	7/21/20
B-29.17	25.803503°	-80.342391°	10.0	3.5	7/23/20

TABLE 1: SUMMARY OF FIELD TEST LOCATIONS
DORAL CENTRAL PARK
3000 NW 87th AVENUE, DORAL, FLORIDA
PSI PROJECT NO. 0397-1537

BORING NUMBER	[1] LATITUDE	[1] LONGITUDE	[2] BORING DEPTH (FT.)	[2] GROUNDWATER DEPTH (FT.)	DATE PERFORMED
B-30.01	25.803926°	-80.341295°	10.0	3.6	7/20/20
B-30.02	25.803781°	-80.340985°	10.0	3.8	7/20/20
B-30.03	25.803788°	-80.339731°	10.0	3.4	7/15/20
B-30.04	25.802726°	-80.338484°	10.0	2.9	7/16/20
B-30.05	25.801166°	-80.340428°	10.0	4.3	7/1/20
B-31.01/P-07	25.804113°	-80.338902°	15.0	4.2	8/4/20
B-31.02/DRI-3	25.803413°	-80.338837°	10.0	3.7	7/16/2020 & 8/6/20
B-31.03	25.802845°	-80.338926°	10.0	3.5	7/15/20
B-31.04	25.803421°	-80.339477°	10.0	3.5	7/15/20
B-31.05	25.803411°	-80.338271°	10.0	6.5	7/27/20
B-32.01	25.802618°	-80.338832°	10.0	4.0	7/16/20
B-32.02	25.802198°	-80.338045°	10.0	3.9	7/16/20
B-32.03	25.801349°	-80.338077°	10.0	4.2	7/16/20
B-32.04	25.801075°	-80.338515°	10.0	4.6	7/2/20
B-32.05	25.801175°	-80.339468°	10.0	4.7	7/2/20
B-32.06	25.801281°	-80.339963°	10.0	4.8	7/2/20
B-32.07	25.801812°	-80.340785°	10.0	3.5	7/2/20
B-32.08	25.801621°	-80.341632°	10.0	4.3	7/2/20
B-32.09	25.801386°	-80.342659°	10.0	4.8	7/1/20
B-32.10	25.803781°	-80.341584°	10.0	3.8	7/20/20
B-33.01	25.803964°	-80.339408°	10.0	3.4	7/15/20
B-33.02	25.803874°	-80.338351°	10.0	6.2	7/27/20
B-33.03/P-06	25.802871°	-80.339371°	15.0	4.0	8/5/20
B-33.04/P-08	25.803011°	-80.338314°	15.0	3.2	8/4/20
B-34.01	25.800749°	-80.339444°	10.0	2.8	6/27/20
B-34.02	25.800681°	-80.339122°	10.0	2.6	6/27/20
B-35.01	25.800739°	-80.338781°	6.0	4.2	8/5/20
B-35.02/P-15	25.800726°	-80.337981°	15.0	2.8	6/27/20
B-36.01/P-09	25.803397°	-80.337621°	35.0	3.7	7/27/20
B-36.02/DRI-4	25.802804°	-80.337897°	10.0	4.1	8/5/20 & 8/6/20
B-36.03/P-10	25.802208°	-80.337571°	35.0	4.4	7/27/20

[1] The geographical coordinates (latitude and longitude) were obtained with a hand-held GPS and should be considered approximate.

[2] Groundwater and boring depths referenced from the existing ground surface at the time of the field exploration.

APPENDIX B

BORING B-01

DATE STARTED:	1/5/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/5/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803922°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344897°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.3 feet
	Upon Completion	3.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		5-10-10-9 N=20			
				2				9-9-8-8 N=17			
	5			3				9-8-7-7 N=15			
				4				7-9-9-8 N=18			
				5				8-6-6-4 N=12			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP				
				6				5-3-3 N=6			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				38-35-30 N=65		>>◎	
	20										
				8				8-8-6 N=14			
	25										

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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-01

DATE STARTED:	1/5/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/5/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803922°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344897°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.3 feet
	Upon Completion	3.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		6-5-5 N=10			
	35			10				18-19-21 N=40			
	40			11		END OF BORING		39-40-38 N=78		>>◎	

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BORING B-02

DATE STARTED:	1/5/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/5/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803285°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344631°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.2 feet
	Upon Completion	3.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (3")					
				1		Light Brown Silty SAND with Limerock Moisture Content = 19% % Passing No. 200 SIEVE = 16%	SM	4-2-3-6 N=5			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-12-10-10 N=22			
	5			3				11-12-9-9 N=21			
				4				8-7-7-10 N=14			
				5				9-8-7-6 N=15			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	4-4-4 N=8			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				50/4" N=50/4"		>>◎	
	20										
				8				6-5-10 N=15			
	25										

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BORING B-02

DATE STARTED:	1/5/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/5/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803285°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344631°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.2 feet
	Upon Completion	3.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		7-4-3 N=7			
	35			10				24-12-30 N=42			
	40			11				50/4" N=50/4"		>>◎	
						END OF BORING					

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BORING B-03

DATE STARTED:	1/5/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/5/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802616°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344358°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.3 feet
	Upon Completion	2.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2")					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	4-6-6-7 N=12			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				9-11-8-9 N=19			
	5			3				8-10-11-10 N=21			
				4				10-9-9-7 N=18			
				5				7-7-9-8 N=16			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	3-5-5 N=10			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				26-50/4" N=50/4"		>>	
	20										
				8				9-8-8 N=16			
	25										

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BORING B-03

DATE STARTED:	1/5/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/5/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802616°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344358°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.3 feet
	Upon Completion	2.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		8-7-5 N=12			
	35			10				18-13-24 N=37			
	40			11		END OF BORING		27-23-26 N=49			

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BORING B-04

DATE STARTED:	2/6/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	2/6/18	**DRILLER:** J.L.C.	**LOGGED BY:** AVL
COMPLETION DEPTH	25.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803075°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343586°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.3 feet
	Upon Completion	3.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					Brown Silty SAND with Limerock					
				1			SM	9-12-14-14 N=26			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				15-8-12-6 N=20			
	5			3				4-4-4-4 N=8			
				4				6-8-9-10 N=17			
				5				10-8-7-7 N=15			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	5-4-5 N=9			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				30-38-17 N=55		>>	
	20										
				8				3-4-4 N=8			
	25					END OF BORING					

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BORING B-05

DATE STARTED:	2/6/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	2/6/18	**DRILLER:** J.L.C.	**LOGGED BY:** AVL
COMPLETION DEPTH	25.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802758°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343021°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG
REMARKS:			

Water

While Drilling		3.2 feet
Upon Completion		3.2 feet
Delay		N/A

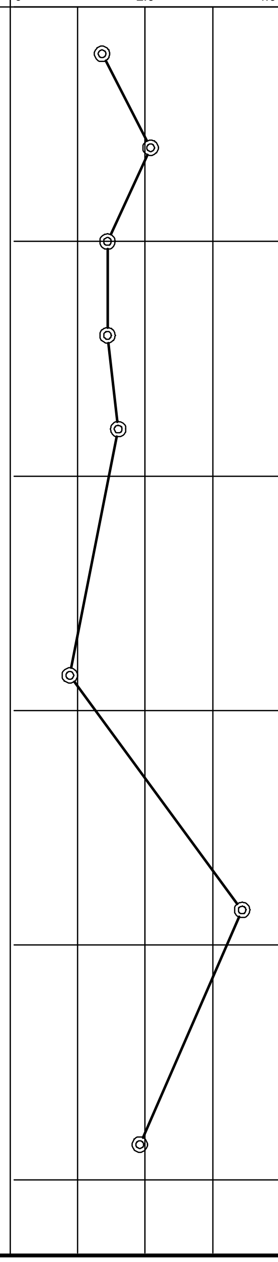
BORING LOCATION:
Figures 2A & 2B of Appendix A

Depth, (feet)	Material Description	USCS Classification	Sample No.	Blow Counts
0	Brown Silty SAND with Limerock	SM	1	7-7-10-9 N=17
2	Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		2	11-14-12-11 N=26
			3	8-9-9-11 N=18
			4	7-8-10-10 N=18
			5	9-9-11-12 N=20
12	Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP	6	4-5-6 N=11
16	Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		7	21-19-24 N=43
			8	10-12-12 N=24
25	END OF BORING			

Columns: Elevation (feet); Depth, (feet); Graphic Log; Sample Type; Sample No.; Recovery (inches); MATERIAL DESCRIPTION; USCS Classification; Moisture, %; Additional Remarks

STANDARD PENETRATION TEST DATA
N in blows/ft ◎
× Moisture ◪ PL ✚ LL
0 25 50

STRENGTH, tsf
▲ Qu ✳ Qp
0 2.0 4.0



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BORING B-06

DATE STARTED:	1/6/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/6/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803361°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343191°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	8-7-9-6 N=16			
						Brown Fine to Medium Grained SAND (Pamlico Formation)	SP				
				2		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		6-8-8-10 N=16			
	5			3				10-7-7-9 N=14			
				4				9-12-9-9 N=21			
				5				9-8-8-7 N=16			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP				
				6				4-5-5 N=10			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				12-12-13 N=25			
	20										
				8				13-12-9 N=21			
	25										

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BORING B-06

DATE STARTED:	1/6/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/6/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803361°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343191°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		10-10-10 N=20			
	35			10				24-28-32 N=60		>>◎	
	40			11				35-34-28 N=62		>>◎	
						END OF BORING					

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BORING B-07

DATE STARTED:	1/6/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/6/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	30.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803149°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343108°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.9 feet
	Upon Completion	3.9 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2")					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	14-7-11-10 N=18			
						Brown Fine to Medium Grained SAND (Pamlico Formation)	SP				
				2		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		10-7-9-9 N=16			
	5			3				9-6-8-7 N=14			
				4				8-8-5-5 N=13			
				5				6-6-5-6 N=11			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP				
				6				5-5-4 N=9			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				18-14-14 N=28			
	20										
				8				8-9-9 N=18			
	25										

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intertek psi
Professional Service Industries, Inc.
7950 N.W. 64th Street
Miami, FL 33166
Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-07

DATE STARTED:	1/6/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/6/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	30.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803149°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343108°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.9 feet
	Upon Completion	3.9 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				9				6-6-10 N=16		◎	
	30					END OF BORING					

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City of Doral, Miami-Dade County, Florida

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BORING B-08

DATE STARTED:	2/6/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	2/6/18	**DRILLER:** J.L.C.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802933°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343042°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.2 feet
	Upon Completion	3.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					Brown Silty SAND with Limerock					
				1			SM	6-14-10-10 N=24			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				14-14-12-9 N=26			
	5			3				7-7-8-8 N=15			
				4				8-8-8-15 N=16			
				5				11-11-14-12 N=25			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	4-4-6 N=10			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				22-24-28 N=52		>>	
	20										
				8				6-6-8 N=14			
	25										

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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

DATE STARTED:	2/6/18	**DRILL COMPANY:**	PSI, Inc.		
DATE COMPLETED:	2/6/18	**DRILLER:**	J.L.C.	**LOGGED BY:**	AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-75		
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling		
ELEVATION:	N/A	**SAMPLING METHOD:**	SS		
LATITUDE:	25.802933°	**HAMMER TYPE:**	Automatic		
LONGITUDE:	-80.343042°	**EFFICIENCY**	N/A		
STATION:	N/A	**OFFSET:**	N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-08

Water		
	While Drilling	3.2 feet
	Upon Completion	3.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
	30			9				5-11-11 N=22			
	35			10				15-30-35 N=65		>>◎	
	40			11				50/4" N=50/4"		>>◎	
						END OF BORING					

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BORING B-09

DATE STARTED:	1/6/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/6/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803237°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342742°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Fine to Medium Grained SAND with Limerock	SP	12-12-12-10 N=24			
						Brown Fine to Medium Grained SAND (Pamlico Formation)	SP				
				2		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		9-9-11-8 N=20			
	5			3				7-5-6-8 N=11			
				4				11-10-6-7 N=16			
				5				8-7-7-4 N=14			
	10					Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP				
				6				3-3-3 N=6			
	15					Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				20-11-12 N=23			
	20										
				8				10-11-10 N=21			
	25										

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BORING B-09

DATE STARTED:	1/6/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/6/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803237°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342742°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		8-7-8 N=15			
	35			10				30-26-27 N=53		>>◎	
	40			11				29-32-30 N=62		>>◎	
						END OF BORING					

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BORING B-10

DATE STARTED:	1/6/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/6/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803326°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342606°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.7 feet
Upon Completion	3.7 feet
Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	10-10-9-8 N=19			
						Brown Fine to Medium Grained SAND (Pamlico Formation)	SP				
				2		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		9-12-8-10 N=20			
	5			3				10-8-8-8 N=16			
				4				9-5-6-6 N=11			
				5				6-9-9-7 N=18			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	6-4-6 N=10			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				17-14-10 N=24			
	20										
				8				13-13-11 N=24			
	25										

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BORING B-10

DATE STARTED:	1/6/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	1/6/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803326°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342606°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL 0 25 50 STRENGTH, tsf ▲ Qu ✳ Qp 0 2.0 4.0	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		10-11-9 N=20			
	35			10				24-31-33 N=64		>>◎	
	40			11				35-32-28 N=60		>>◎	
						END OF BORING					

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BORING B-11

DATE STARTED:	2/3/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	2/3/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	25.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802951°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342381°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	2.7 feet
Upon Completion	2.7 feet
Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / STRENGTH, tsf	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	7-7-6-6 N=13			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-8-5-3 N=13			
	5			3				5-7-8-6 N=15			
				4				6-5-6-6 N=11			
				5				5-8-8-7 N=16			
	10										
				6				12-18-26 N=44			
	15										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				7			SP	29-30-21 N=51		>>	
	20										
				8				16-13-17 N=30			
	25					END OF BORING					

STANDARD PENETRATION TEST DATA
N in blows/ft ◎
Moisture ◪ PL ✚ LL
0 25 50
STRENGTH, tsf
▲ Qu ✳ Qp
0 2.0 4.0

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BORING B-12

DATE STARTED:	2/3/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	2/3/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	25.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802767°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342519°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.6 feet
	Upon Completion	2.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / STRENGTH, tsf	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-9-9-7 N=18			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				8-6-6-5 N=12			
	5			3				7-5-7-7 N=12			
				4				8-8-4-4 N=12			
				5				4-6-6-5 N=12			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6				9-21-24 N=45			
	15										
							SP				
				7				26-20-20 N=40			
	20										
				8				19-17-16 N=33			
	25					END OF BORING					

STANDARD PENETRATION TEST DATA
N in blows/ft ◎
Moisture PL LL
0 25 50
STRENGTH, tsf
Qu Qp
0 2.0 4.0

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BORING B-13

DATE STARTED:	2/3/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	2/3/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	25.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802559°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342644°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	2.5 feet
Upon Completion	2.5 feet
Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-10-8-4 N=18			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-6-3-5 N=9			
	5			3				9-9-7-8 N=16			
				4				8-12-11-7 N=23			
				5				7-6-9-5 N=15			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6				6-25-50/3" N=75/9"		>>	
	15										
				7			SP	50/4" N=50/4"		>>	
	20										
				8				18-18-15 N=33			
	25					END OF BORING					

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BORING B-14

DATE STARTED:	2/3/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	2/3/18	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	25.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802551°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342958°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.8 feet
	Upon Completion	2.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / STRENGTH, tsf	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	11-10-6-8 N=16			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				9-9-7-8 N=16			
	5			3				8-7-6-5 N=13			
				4				5-4-3-6 N=7			
				5				6-8-7-7 N=15			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6				10-18-14 N=32			
	15										
							SP				
				7				15-19-16 N=35			
	20										
				8				13-21-22 N=43			
	25					END OF BORING					

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BORING B-15

DATE STARTED:	2/6/18	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	2/6/18	**DRILLER:** J.L.C.	**LOGGED BY:** AVL
COMPLETION DEPTH	25.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802551°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343161°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.3 feet
	Upon Completion	3.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0			1		Brown Silty SAND with Limerock	SM	8-8-10-11 N=18			
				2		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		12-14-14-12 N=28			
	5			3				6-6-8-8 N=14			
				4				10-10-11-8 N=21			
				5				8-9-10-10 N=19			
	10										
				6		Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP	5-5-5 N=10			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				25-23-26 N=49			
	20										
				8				8-8-9 N=17			
	25					END OF BORING					

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Professional Service Industries, Inc.
7950 N.W. 64th Street
Miami, FL 33166
Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-01.01

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801916°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343887°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.7 feet
	Upon Completion	4.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-2-3-4 N=5			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-5-7-7 N=12			
	5			3				5-7-5-5 N=14			
				4				8-10-9-10 N=19			
				5				6-7-7-7 N=14			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6				7-6-7 N=13			
	15						SP				
				7				10-7-7 N=14			
	20										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				8				4-5-5 N=10			
	25										

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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801916°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343887°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-01.01

Water		
	While Drilling	4.7 feet
	Upon Completion	4.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		9-12-10 N=22			
	35			10				30-32-23 N=55		>>◎	
	40			11				10-15-14 N=29			
	45			12				10-6-36 N=42			
	50			13				50/5" N=50/5"		>>◎	
						END OF BORING					

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City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

DATE STARTED:	6/29/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/29/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802133°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343413°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-01.02

Water		
	While Drilling	4.5 feet
	Upon Completion	4.5 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ Moisture × PL ◪ LL ✚ (0, 25, 50) STRENGTH, tsf Qu ▲ Qp ✳ (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		2-2-2-3 N=4			
				2				3-5-5-7 N=10			
	5			3				5-7-7-6 N=14			
				4				6-8-10-10 N=18			
				5				8-8-7-7 N=15			
	10										
				6				6-6-5 N=11			
	15										
				7		Light Brown Fine to Medium Grained SAND with Limestone and Cemented Sand Fragments (Fort Thompson Formation)	SP	8-6-7 N=13			
	20										
				8		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		5-5-6 N=11			
	25										

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BORING B-01.02

DATE STARTED:	6/29/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/29/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802133°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343413°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.5 feet
	Upon Completion	4.5 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		6-6-8 N=14			
	35			10				23-28-19 N=47			
	40			11				12-14-11 N=25			
	45			12				9-8-23 N=31			
	50			13				29-38-38 N=76		>>◎	
						END OF BORING					

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BORING B-01.03

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801924°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343571°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.6 feet
	Upon Completion	4.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		4-5-5-7 N=10			
				2				6-9-11-10 N=20			
	5			3				9-9-15-10 N=24			
				4				8-8-7-7 N=15			
				5				7-6-7-8 N=13			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6				6-5-3 N=8			
	15						SP				
				7				4-6-5 N=11			
	20										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				8				3-6-6 N=12			
	25										

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DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801924°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343571°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-01.03

Water		
	While Drilling	4.6 feet
	Upon Completion	4.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
	30			9				6-9-8 N=17			
	35			10				27-29-20 N=49			
	40			11				9-17-14 N=31			
	45			12				8-8-39 N=47			
	50			13				50/5" N=50/5"		>>◎	
						END OF BORING					

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BORING B-01.04

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801705°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343771°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		2-11-11-10 N=22			
				2				11-9-13-8 N=22			
	5			3				11-17-18-17 N=35			
				4				16-14-8-8 N=22			
				5				13-8-8-6 N=16			
	10										
				6		Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP	5-4-2 N=6			
	15										
				7		Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP-SM	1-WOH N=0			
	20										
				8		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		5-7-5 N=12			
	25										

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PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.		
DATE COMPLETED:	6/27/20	**DRILLER:**	L.R.	**LOGGED BY:**	AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-55		
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling		
ELEVATION:	N/A	**SAMPLING METHOD:**	SS		
LATITUDE:	25.801705°	**HAMMER TYPE:**	Automatic		
LONGITUDE:	-80.343771°	**EFFICIENCY**	N/A		
STATION:	N/A	**OFFSET:**	N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-01.04

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		8-12-14 N=26			
	35			10				36-36-20 N=56		>>◎	
	40			11				15-14-11 N=25			
	45			12				9-3-WOH N=3			
	50			13		END OF BORING		50/5" N=50/5"		>>◎	

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BORING B-01.05

DATE STARTED:	6/29/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/29/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801698°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343383°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.0	feet
Upon Completion	4.0	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-6-8-8 N=14			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-8-8-14 N=16			
	5			3				7-8-8-10 N=16			
				4				5-7-7-7 N=14			
				5				7-7-6-6 N=13			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	1-1-1 N=2			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				4-8-9 N=17			
	20										
				8				5-7-7 N=14			
	25										

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STRENGTH, tsf ▲ Qu ✳ Qp
0 2.0 4.0

Moisture ✕ PL ◪ LL
0 25 50

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DATE STARTED:	6/29/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/29/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801698°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343383°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-01.05

Water		
	While Drilling	4.0 feet
	Upon Completion	4.0 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		5-7-8 N=15			
	35			10				12-25-19 N=44			
	40			11				11-21-19 N=40			
	45			12				8-7-9 N=16			
	50			13				27-35-29 N=64		>>◎	
						END OF BORING					

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BORING B-01.06

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801586°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343559°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.6 feet
	Upon Completion	3.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	12-11-8-6 N=19			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				12-10-13-10 N=23			
	5			3				8-8-9-9 N=17			
				4				9-11-10-7 N=21			
				5				8-9-6-5 N=15			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6				4-5-4 N=9			
	15						SP				
				7				3-2-2 N=4			
	20										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				8				4-4-4 N=8			
	25										

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intertek psi
Professional Service Industries, Inc.
7950 N.W. 64th Street
Miami, FL 33166
Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-01.06

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801586°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343559°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.6	feet
Upon Completion	3.6	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / STRENGTH, tsf	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		5-9-10 N=19		Moisture PL LL (0, 25, 50)	
	35			10				30-31-25 N=56		>>	
	40			11				13-12-9 N=21			
	45			12				12-6-4 N=10			
	50			13		END OF BORING		39-35-30 N=65		>>	

STRENGTH, tsf: Qu ▲ Qp ✳ (0, 2.0, 4.0)

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PROJECT NO.: 0397-1537
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LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

DATE STARTED:	6/29/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/29/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801368°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343747°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-01.07

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	2-6-7-9 N=13			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				8-8-8-7 N=16			
	5			3				7-7-6-8 N=13			
				4				8-10-9-9 N=19			
				5				9-8-5-5 N=13			
	10										
				6				8-12-21 N=33			
	15										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				7			SP	3-3-4 N=7			
	20										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				8				10-8-6 N=14			
	25										

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PROJECT NO.: 0397-1537
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LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-01.07

DATE STARTED:	6/29/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/29/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801368°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343747°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL 0 25 50 STRENGTH, tsf ▲ Qu ✳ Qp 0 2.0 4.0	Additional Remarks
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
	30			9				7-7-8 N=15			
	35			10				20-24-22 N=46			
	40			11				19-16-12 N=28			
	45			12				12-8-6 N=14			
	50			13				27-25-23 N=48			
						END OF BORING					

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BORING B-01.08

DATE STARTED:	6/29/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/29/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801339°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343371°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.0	feet
Upon Completion	4.0	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-4-9-11 N=13			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				10-10-11-9 N=21			
	5			3				9-10-8-10 N=18			
				4				10-9-8-8 N=17			
				5				8-7-7-6 N=14			
	10										
				6				10-15-35 N=50			
	15										
				7		Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP	2-2-2 N=4			
	20										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				8				8-6-4 N=10			
	25										

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LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

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BORING B-01.08

DATE STARTED:	6/29/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/29/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801339°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343371°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.0	feet
Upon Completion	4.0	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		9-10-10 N=20			
	35			10				25-28-19 N=47			
	40			11				14-14-10 N=24			
	45			12				7-5-5 N=10			
	50			13		END OF BORING		30-31-26 N=57		>>◎	

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LOCATION: 3000 NW 87th Avenue
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BORING B-02.01

DATE STARTED:	7/7/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/7/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801549°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343916°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-4-4-6 N=8			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-5-3-4 N=8			
	5			3				5-7-6-6 N=13			
						END OF BORING					

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LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

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BORING B-02.02

DATE STARTED:	7/8/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/8/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801321°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344046°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.8	feet
Upon Completion	3.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (1" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP	6-5-3-2 N=8			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				3-4-4-6 N=8			
	5			3				6-7-7-5 N=14			
						END OF BORING					

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PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

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BORING B-03.01 / P-03

DATE STARTED:	7/8/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/8/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801532°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344731°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP	2-4-7-8 N=11			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-8-12-12 N=20			
	5			3				4-5-14-10 N=19			
				4				14-15-14-12 N=29			
				5				6-7-7-8 N=14			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP				
				6				15-14-14 N=28			
	15					END OF BORING					

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PROJECT NO.: 0397-1537
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LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

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BORING B-03.02

DATE STARTED:	7/7/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/7/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801802°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344745°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.8	feet
Upon Completion	3.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP	2-3-6-5 N=9			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				3-3-4-4 N=7			
	5			3				8-7-9-8 N=16			
						END OF BORING					

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City of Doral, Miami-Dade County, Florida

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BORING B-03.03

DATE STARTED:	7/8/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/8/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802076°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344311°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.9	feet
Upon Completion	3.9	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP	3-3-5-5 N=8			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-3-4-6 N=7			
	5			3				6-7-7-9 N=14			
						END OF BORING					

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BORING B-03.04 / P-02

DATE STARTED:	7/8/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/8/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802875°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344964°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.6 feet
	Upon Completion	3.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	4-5-7-7 N=12			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-4-5-4 N=9			
	5			3				4-4-10-11 N=14			
				4				12-14-10-9 N=24			
				5				5-5-7-7 N=12			
	10										
				6		Light Brown Fine to Medium Grained SAND with Limestone and Cemented Sand Fragments (Fort Thompson Formation)	SP	11-12-14 N=26			
	15					END OF BORING					

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BORING B-03.05

DATE STARTED:	7/7/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/7/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803149°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344323°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.7 feet
Upon Completion	3.7 feet
Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture ✕ / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-4-4-6 N=8			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-3-4-5 N=7			
	5			3				5-4-5-7 N=9			
						END OF BORING					

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BORING B-03.06

DATE STARTED:	7/24/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/24/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803567°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344784°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.8	feet
Upon Completion	3.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	4-6-7-5 N=13			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				8-12-15-15 N=27			
	5			3				7-8-7-8 N=15			
						END OF BORING					

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Professional Service Industries, Inc.
7950 N.W. 64th Street
Miami, FL 33166
Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-03.07 / P-01

DATE STARTED:	7/8/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/8/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804035°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344284°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	4-5-5-4 N=10			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-5-4-5 N=9			
	5			3				4-4-7-14 N=11			
				4				10-9-11-10 N=20			
				5				7-5-6-8 N=11			
	10										
						Light Brown Fine to Medium Grained SAND with Limestone and Cemented Sand Fragments (Fort Thompson Formation)	SP				
				6				11-14-12 N=26			
	15					END OF BORING					

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City of Doral, Miami-Dade County, Florida

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BORING B-03.08

DATE STARTED:	8/5/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/5/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804271°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344793°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.3	feet
Upon Completion	4.3	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-6-5-5 N=11			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-6-4-4 N=10			
	5			3				6-5-7-7 N=10			
						END OF BORING					

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BORING B-03.09

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803468°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343728°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-5-4-7 N=9			
				2		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	6-6-7-10 N=13			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		5-6-9-9 N=15			
						END OF BORING					

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BORING B-03.10

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804011°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343477°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.7 feet
Upon Completion	3.7 feet
Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ Moisture × PL ◪ LL ✚ 0 25 50 STRENGTH, tsf Qu ▲ Qp ✳ 0 2.0 4.0	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	6-11-9-14 N=20			
						Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	12-8-9-11 N=17			
				2		▼					
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		7-7-6-9 N=13			
						END OF BORING					

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BORING P-12

DATE STARTED:	8/4/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/4/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803262°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344006°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.2 feet
	Upon Completion	3.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-5-5-7 N=10			
				2		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	7-7-11-10 N=18			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		7-8-6-7 N=14			
				4				8-9-9-10 N=18			
				5				6-5-7-7 N=12			
	10										
				6		Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP	7-6-7 N=13			
	15					END OF BORING					

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BORING P-13

DATE STARTED:	8/4/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/4/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803798°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343693°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.4 feet
	Upon Completion	3.4 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	8-8-6-5 N=14			
				2		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	5-4-2-2 N=6			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		6-5-5-4 N=10			
				4				8-9-12-10 N=21			
				5				8-7-8-8 N=15			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP				
				6				6-7-6 N=13			
	15					END OF BORING					

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DATE STARTED:	8/4/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/4/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801448°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.337573°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-03A.01 / P-11

Water		
	While Drilling	6.3 feet
	Upon Completion	6.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP	4-8-8-5 N=16			
				2				3-3-3-6 N=6			
	5			3		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	9-5-3-3 N=8			
				4		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		4-11-16-14 N=27			
				5				13-15-12-13 N=27			
	10										
				6				5-5-4 N=9			
	15					END OF BORING					

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BORING B-03A.02

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801113°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338036°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.6 feet
	Upon Completion	2.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		5-6-8-11 N=14			
				2				7-11-11-9 N=22			
	5			3				8-9-10-10 N=19			
						END OF BORING					

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BORING B-04.01

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	30.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803014°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343311°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP	6-14-15-10 N=29			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				12-8-10-11 N=18			
	5			3				11-6-5-7 N=11			
				4				5-5-6-9 N=11			
				5				9-6-8-8 N=14			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	6-7-7 N=14			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				10-9-8 N=17			
	20										
				8				8-9-8 N=17			
	25										

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BORING B-04.01

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	30.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803014°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343311°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
						Light Brown Fine to Medium Grained SAND with Limestone and Cemented Sand Fragments (Fort Thompson Formation)	SP-SM	10-9-11 N=20			
	9			9							
	30					END OF BORING					

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BORING B-05.01

DATE STARTED:	7/7/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/7/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	20.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.800948°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.345012°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-9-8-12 N=17			
				2				21-12-3-2 N=15			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
	5			3				3-3-4-4 N=7			
				4				4-5-7-5 N=12			
				5				6-5-4-4 N=9			
	10										
				6				6-4-5 N=9			
	15										
				7				15-9-10 N=19			
	20					END OF BORING					

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BORING B-05.02

DATE STARTED:	7/7/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/7/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	20.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.800832°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344898°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.6 feet
	Upon Completion	3.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-8-7-10 N=15			
				2				15-12-4-2 N=16			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		4-2-3-4 N=5			
				4				3-4-6-6 N=10			
				5				5-3-4-4 N=7			
	10										
				6				5-5-4 N=9			
	15										
				7				12-11-11 N=22			
	20					END OF BORING					

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Professional Service Industries, Inc.
7950 N.W. 64th Street
Miami, FL 33166
Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-06.01

DATE STARTED:	7/1/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/1/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801503°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341453°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.6 feet
	Upon Completion	3.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	6-7-7-8 N=14			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-12-12-10 N=24			
	5			3				9-8-7-7 N=15			
				4				7-6-7-8 N=13			
				5				7-7-9-7 N=16			
	10					END OF BORING					

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BORING B-06.02

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801234°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341341°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG
REMARKS:			

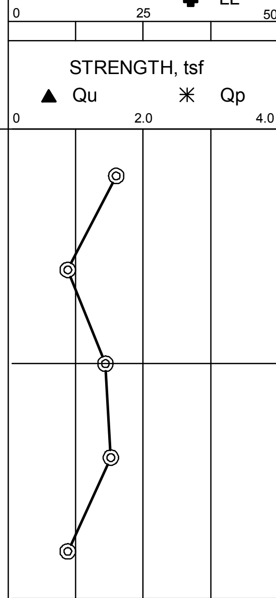
Water

While Drilling	2.7	feet
Upon Completion	2.7	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Sample No.	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	Additional Remarks
	0		TOPSOIL (6" Thick)				
		1	Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	11-11-9-7 N=20		
		2	Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		8-6-5-9 N=11		
	5	3			7-7-11-11 N=18		
		4			10-11-8-7 N=19		
		5			6-6-5-6 N=11		
	10		END OF BORING				

STANDARD PENETRATION TEST DATA
N in blows/ft ◎
× Moisture ◪ PL ✚ LL
STRENGTH, tsf
▲ Qu ✳ Qp



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BORING B-06.03

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801518°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340991°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.3 feet
	Upon Completion	2.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-4-3-3 N=7			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-10-8-7 N=18			
	5			3				7-6-5-7 N=11			
				4				7-4-6-5 N=10			
				5				6-6-5-8 N=11			
	10					END OF BORING					

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BORING B-06.04 / DRI-2

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801286°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340992°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.3 feet
	Upon Completion	2.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	1-2-4-5 N=6			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-8-6-6 N=14			
	5			3				6-4-7-5 N=11			
				4				5-5-4-4 N=9			
				5				4-7-8-6 N=15			
	10					END OF BORING					

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BORING B-07.01

DATE STARTED:	7/1/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/1/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801722°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341259°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.6 feet
	Upon Completion	3.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP	4-7-6-3 N=13			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-13-9-4 N=22			
	5			3				4-3-11-11 N=14			
				4				12-9-9-10 N=18			
				5				10-8-8-7 N=16			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	4-6-5 N=11			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				5-4-4 N=8			
	20										
				8				17-14-16 N=30			
	25										

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BORING B-07.01

DATE STARTED:	7/1/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/1/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801722°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341259°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.6 feet
	Upon Completion	3.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		19-19-15 N=34			
	35			10				16-15-15 N=30			
	40			11		END OF BORING		18-14-16 N=30			

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BORING B-07.02

DATE STARTED:	7/1/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/1/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801723°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340993°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.3	feet
Upon Completion	3.3	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-8-9-8 N=17			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-10-8-9 N=18			
	5			3				6-7-5-5 N=12			
				4				6-6-7-8 N=13			
				5				6-8-8-9 N=16			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	6-7-7 N=14			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				5-6-5 N=11			
	20										
				8				11-17-14 N=31			
	25										

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DATE STARTED:	7/1/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/1/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801723°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340993°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-07.02

Water		
	While Drilling	3.3 feet
	Upon Completion	3.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		15-14-14 N=28			
	35			10				16-17-15 N=32			
	40			11				19-23-20 N=43			
						END OF BORING					

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DATE STARTED:	7/1/20	**DRILL COMPANY:**	PSI, Inc.		
DATE COMPLETED:	7/1/20	**DRILLER:**	L.R.	**LOGGED BY:**	AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55		
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling		
ELEVATION:	N/A	**SAMPLING METHOD:**	SS		
LATITUDE:	25.801844°	**HAMMER TYPE:**	Automatic		
LONGITUDE:	-80.341125°	**EFFICIENCY**	N/A		
STATION:	N/A	**OFFSET:**	N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-07.03

Water			
	While Drilling	3.8	feet
	Upon Completion	3.8	feet
	Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-4-5-5 N=9			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				8-11-11-6 N=22			
	5			3				6-5-9-10 N=14			
				4				10-10-7-7 N=17			
				5				7-9-10-6 N=19			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	7-7-7 N=14			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				6-6-7 N=13			
	20										
				8				13-12-13 N=25			
	25										

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DATE STARTED:	7/1/20	**DRILL COMPANY:**	PSI, Inc.		
DATE COMPLETED:	7/1/20	**DRILLER:**	L.R.	**LOGGED BY:**	AVL
COMPLETION DEPTH	40.0 ft	**DRILL RIG:**	CME-55		
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling		
ELEVATION:	N/A	**SAMPLING METHOD:**	SS		
LATITUDE:	25.801844°	**HAMMER TYPE:**	Automatic		
LONGITUDE:	-80.341125°	**EFFICIENCY**	N/A		
STATION:	N/A	**OFFSET:**	N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-07.03

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture ✕ / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
	30			9				14-15-12 N=27			
	35			10				12-12-11 N=23			
	40			11				14-12-14 N=26			
						END OF BORING					

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BORING B-08.01

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	25.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802421°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343391°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.3	feet
Upon Completion	3.3	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-6-8-8 N=14			
				2		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		6-8-7-4 N=15			
	5			3		Light Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	3-7-12-10 N=19			
				4		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		17-17-14-10 N=31			
				5				8-9-7-9 N=16			
	10										
				6		Light Brown Fine to Medium Grained SAND with Limestone and Cemented Sand Fragments (Fort Thompson Formation)	SP	5-4-5 N=9			
	15										
				7		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		10-4-4 N=8			
	20										
				8				6-7-6 N=13			
	25					END OF BORING					

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BORING B-08.02

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	25.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802817°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343742°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.5 feet
	Upon Completion	3.5 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Depth, (feet)	Sample No.	MATERIAL DESCRIPTION	USCS Classification		Moisture, %
0		TOPSOIL (2" Thick)			
	1	Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	8-16-10-9 N=26	
		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)			
	2			8-7-8-6 N=15	
5	3			5-5-9-8 N=14	
	4			12-14-14-11 N=28	
	5			6-7-7-8 N=14	
10					
		Light Brown Fine to Medium Grained SAND (Pamlico Formation)			
	6		SP	4-4-4 N=8	
15					
		Light Brown Fine to Medium Grained Silty SAND (Pamlico Formation)			
	7		SM	5-6-5 N=11	
20					
		Light Brown Fine to Medium Grained SAND with Limestone and Cemented Sand Fragments (Fort Thompson Formation)	SP-SM		
	8			6-5-5 N=10	
25		END OF BORING			

STANDARD PENETRATION TEST DATA
N in blows/ft ◎
× Moisture ◪ PL ✚ LL
0 25 50
STRENGTH, tsf
▲ Qu ✳ Qp
0 2.0 4.0

Additional Remarks

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Professional Service Industries, Inc.
7950 N.W. 64th Street
Miami, FL 33166
Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-10.01

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	30.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803422°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342864°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.0 feet
	Upon Completion	4.0 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	8-18-18-12 N=36			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				10-10-12-15 N=22			
	5			3				8-8-10-9 N=18			
				4				9-7-8-8 N=15			
				5				7-7-9-6 N=16			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP-SM	8-5-6 N=11			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				12-7-6 N=13			
	20										
				8				10-11-11 N=22			
	25						SP-SM				

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LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

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BORING B-10.01

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	30.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803422°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342864°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.0	feet
Upon Completion	4.0	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
				9		Light Brown Fine to Medium Grained SAND with Limestone and Cemented Sand Fragments (Fort Thompson Formation)	SP-SM	12-10-9 N=19		◎ at N=19	
	30					END OF BORING					

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BORING B-11.01

DATE STARTED:	7/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804084°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.337583°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.4	feet
Upon Completion	4.4	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ Moisture × PL ◪ LL ✚ 0 25 50 STRENGTH, tsf Qu ▲ Qp ✳ 0 2.0 4.0	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	2-2-2-3 N=4			
				2				3-4-4-8 N=8			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
	5			3				16-20-18-14 N=38			
				4				12-10-7-9 N=17			
				5				6-9-8-7 N=17			
	10					END OF BORING					

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BORING B-11.02

DATE STARTED:	7/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803936°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.337647°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.6	feet
Upon Completion	4.6	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	2-2-3-5 N=5			
				2				5-3-4-5 N=7			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
	5			3				11-19-19-17 N=38			
				4				15-12-10-7 N=22			
				5				7-7-9-8 N=16			
	10					END OF BORING					

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BORING B-11.03

DATE STARTED:	7/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804067°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.337803°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG
REMARKS:			

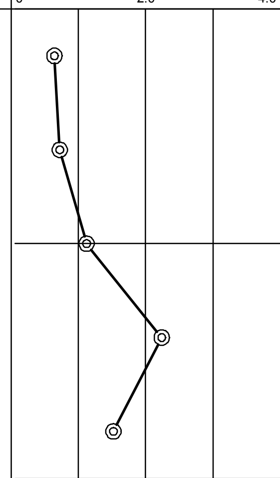
Water

While Drilling	5.6 feet
Upon Completion	5.6 feet
Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	Additional Remarks
	0					TOPSOIL (2" Thick)				
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-4-4-4 N=8		
				2				4-5-4-4 N=9		
	5			3		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	6-7-7-11 N=14		
				4		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		14-16-12-12 N=28		
				5				9-9-10-8 N=19		
	10					END OF BORING				

STANDARD PENETRATION TEST DATA
N in blows/ft ◎
× Moisture ◪ PL ✚ LL
0 25 50
STRENGTH, tsf
▲ Qu ✳ Qp
0 2.0 4.0



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BORING B-11.04

DATE STARTED:	7/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803943°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.337908°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	6.7 feet
Upon Completion	6.7 feet
Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	STANDARD PENETRATION TEST DATA N in blows/ft	Moisture, %	Additional Remarks
	0					TOPSOIL (2" Thick)				
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-5-4-5 N=9		
				2				5-5-3-4 N=8		
	5			3		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	7-5-3-3 N=8		
				4		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		14-19-14-12 N=33		
				5				10-12-9-8 N=21		
	10					END OF BORING				

STANDARD PENETRATION TEST DATA
N in blows/ft
Moisture PL LL
0 25 50
STRENGTH, tsf
Qu Qp
0 2.0 4.0

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DATE STARTED:	7/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804111°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338117°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-11.05

Water		
	While Drilling	6.2 feet
	Upon Completion	6.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-5-5-5 N=10			
				2				4-5-4-5 N=9			
	5			3		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	6-6-5-4 N=11			
				4		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		12-14-14-10 N=28			
				5				10-10-12-9 N=22			
	10					END OF BORING					

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BORING B-11.06

DATE STARTED:	7/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803909°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338112°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	6.3 feet
	Upon Completion	6.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	6-7-6-7 N=13			
				2				6-9-8-8 N=17			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		9-5-4-4 N=9			
				4				5-4-4-5 N=8			
				5				6-6-7-6 N=13			
	10					END OF BORING					

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BORING B-12.01

DATE STARTED:	7/20/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/20/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803912°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341164°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.0	feet
Upon Completion	4.0	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-3-4-9 N=7			
				2				15-15-9-8 N=24			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		7-5-5-4 N=10			
				4				4-4-5-5 N=9			
				5		Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP	7-6-4-4 N=10			
	10										
				6		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		6-6-5 N=11			
	15					END OF BORING					

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BORING B-12.02

DATE STARTED:	7/20/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/20/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803761°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341311°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.8	feet
Upon Completion	3.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-5-6-15 N=11			
				2				26-28-13-10 N=41			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		8-7-7-6 N=14			
				4				6-5-6-5 N=11			
				5		Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP	6-5-7-6 N=12			
	10										
				6		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		4-5-4 N=9			
	15					END OF BORING					

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DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/15/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	75.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803236°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340181°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-13.01

Water		
	While Drilling	2.2 feet
	Upon Completion	2.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-8-9-10 N=17			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-5-6-5 N=11			
	5			3				4-7-8 N=14			
				4				9-10-9-7 N=19			
				5				6-6-5-6 N=11			
	10										
				6				5-2-2 N=4			
	15										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				7			SP	9-9-12 N=21			
	20										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				8				10-7-8 N=15			
	25										

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DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.		
DATE COMPLETED:	7/15/20	**DRILLER:** L.R.	**LOGGED BY:** AVL		
COMPLETION DEPTH	75.0 ft	**DRILL RIG:**	CME-55		
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling		
ELEVATION:	N/A	**SAMPLING METHOD:**	SS		
LATITUDE:	25.803236°	**HAMMER TYPE:**	Automatic		
LONGITUDE:	-80.340181°	**EFFICIENCY**	N/A		
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG		

REMARKS:

BORING B-13.01

Water		
	While Drilling	2.2 feet
	Upon Completion	2.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		9-7-4 N=11			
	35			10				16-14-24 N=38			
	40			11				50/4" N=50/4"		>>◎	
	45			12				13-5-4 N=9			
	50			13				50/4" N=50/4"		>>◎	

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intertek psi
Professional Service Industries, Inc.
7950 N.W. 64th Street
Miami, FL 33166
Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-13.01

DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/15/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	75.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803236°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340181°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	2.2 feet
Upon Completion	2.2 feet
Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	55			14		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		45-50/3" N=50/3"		>>	
	60			15				50/4" N=50/4"		>>	
	65			16				35-24-23 N=47			
	70			17				19-22-20 N=42			
	75			18		END OF BORING		24-26-25 N=51		>>	

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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-13.02

DATE STARTED:	7/8/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/8/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	75.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803521°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341176°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.0 feet
	Upon Completion	3.0 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	3-6-7-8 N=13			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				8-4-4-4 N=8			
	5			3				6-6-6-5 N=12			
				4				5-8-7-7 N=15			
				5				7-7-8-8 N=15			
	10										
				6				4-3-3 N=6			
	15										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				7			SP	6-7-9 N=16			
	20										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				8				8-6-6 N=12			
	25										

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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

DATE STARTED:	7/8/20	**DRILL COMPANY:**	PSI, Inc.		
DATE COMPLETED:	7/8/20	**DRILLER:** L.R.	**LOGGED BY:** AVL		
COMPLETION DEPTH	75.0 ft	**DRILL RIG:**	CME-55		
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling		
ELEVATION:	N/A	**SAMPLING METHOD:**	SS		
LATITUDE:	25.803521°	**HAMMER TYPE:**	Automatic		
LONGITUDE:	-80.341176°	**EFFICIENCY**	N/A		
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG		

REMARKS:

BORING B-13.02

Water		
	While Drilling	3.0 feet
	Upon Completion	3.0 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL 0 25 50 STRENGTH, tsf ▲ Qu ✳ Qp 0 2.0 4.0	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		6-5-7 N=12			
	35			10				12-12-18 N=30			
	40			11				30-50/5" N=50/5"		>>◎	
	45			12				24-12-9 N=21			
	50			13				19-33-50/3" N=83/9"		>>◎	

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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

DATE STARTED:	7/8/20	**DRILL COMPANY:**	PSI, Inc.		
DATE COMPLETED:	7/8/20	**DRILLER:** L.R.	**LOGGED BY:** AVL		
COMPLETION DEPTH	75.0 ft	**DRILL RIG:**	CME-55		
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling		
ELEVATION:	N/A	**SAMPLING METHOD:**	SS		
LATITUDE:	25.803521°	**HAMMER TYPE:**	Automatic		
LONGITUDE:	-80.341176°	**EFFICIENCY**	N/A		
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG		

REMARKS:

BORING B-13.02

Water		
	While Drilling	3.0 feet
	Upon Completion	3.0 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL 0 25 50 STRENGTH, tsf ▲ Qu ✳ Qp 0 2.0 4.0	Additional Remarks
	55			14		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		50/4" N=50/4"		>>◎	
	60			15				47-50/5" N=50/5"		>>◎	
	65			16				39-30-28 N=58		>>◎	
	70			17				27-21-25 N=46		◎	
	75			18				20-20-22 N=42		◎	
						END OF BORING					

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PROJECT NO.: 0397-1537
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City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/16/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	75.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803451°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341386°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-13.03

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	2-4-9-6 N=13			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-6-5-6 N=11			
	5			3				5-4-7-7 N=11			
				4				7-6-5-5 N=11			
				5				5-5-6-6 N=11			
	10										
				6				6-5-4 N=9			
	15										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				7			SP	4-6-7 N=13			
	20										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				8				7-8-7 N=15			
	25										

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PROJECT NO.: 0397-1537
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LOCATION: 3000 NW 87th Avenue
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The stratification lines represent approximate boundaries. The transition may be gradual.

DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.		
DATE COMPLETED:	7/16/20	**DRILLER:** L.R.	**LOGGED BY:** AVL		
COMPLETION DEPTH	75.0 ft	**DRILL RIG:**	CME-55		
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling		
ELEVATION:	N/A	**SAMPLING METHOD:**	SS		
LATITUDE:	25.803451°	**HAMMER TYPE:**	Automatic		
LONGITUDE:	-80.341386°	**EFFICIENCY**	N/A		
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG		

REMARKS:

BORING B-13.03

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL 0 25 50 STRENGTH, tsf ▲ Qu ✳ Qp 0 2.0 4.0	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		8-8-6 N=14			
	35			10				10-9-14 N=23			
	40			11				23-36-47 N=83		>>◎	
	45			12				30-15-11 N=26			
	50			13				13-50/4" N=50/4"		>>◎	

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BORING B-13.03

DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/16/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	75.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803451°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341386°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.7 feet
Upon Completion	3.7 feet
Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	55			14		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		50/5" N=50/5"		>>◎	
	60			15				50/4" N=50/4"		>>◎	
	65			16				47-39-30 N=69		>>◎	
	70			17				32-25-20 N=45		◎	
	75			18		END OF BORING		24-19-17 N=36			

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LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-14.01

DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/15/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803128°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339797°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.9 feet
	Upon Completion	2.9 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		7-7-6-8 N=13			
				2				8-9-8-8 N=17			
	5			3				7-7-9-8 N=16			
				4				8-7-6-7 N=13			
				5				5-6-5-5 N=11			
	10					END OF BORING					

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LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-14.02

DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/15/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802871°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339922°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		5-4-8-7 N=12			
				2				5-6-9-8 N=15			
	5			3				4-4-10-12 N=14			
				4				6-7-8-8 N=15			
				5				6-7-5-5 N=12			
	10					END OF BORING					

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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-15.01

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801355°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340308°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.7 feet
	Upon Completion	4.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / STRENGTH, tsf	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-5-15-20 N=20			
				2				8-8-7-10 N=15			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		14-12-8-10 N=20			
				4				7-6-9-9 N=12			
				5				6-4-8-6 N=12			
	10										
				6				5-12-11 N=23			
	15					EN OF BORING					

Moisture: × Moisture; ◪ PL; ✚ LL; 0 — 25 — 50

Strength: ▲ Qu; ✳ Qp; 0 — 2.0 — 4.0

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PROJECT: Doral Central Park
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City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.		
DATE COMPLETED:	7/2/20	**DRILLER:**	P.W.	**LOGGED BY:**	AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-75		
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling		
ELEVATION:	N/A	**SAMPLING METHOD:**	SS		
LATITUDE:	25.801281°	**HAMMER TYPE:**	Automatic		
LONGITUDE:	-80.340561°	**EFFICIENCY**	N/A		
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG		
REMARKS:					

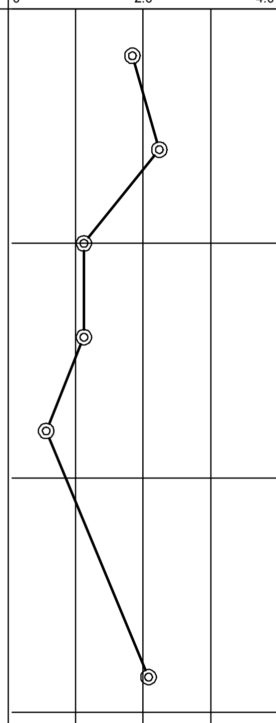
BORING B-15.02

Water		
∇	While Drilling	3.8 feet
▼	Upon Completion	3.8 feet
∇	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	Additional Remarks
	0					TOPSOIL (6" Thick)				
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)				
			SS	1				8-16-7-12 N=23		
			SS	2				10-16-12-14 N=28		
	5		SS	3				11-8-6-5 N=14		
			SS	4				7-8-6-6 N=14		
			SS	5				3-4-3-3 N=7		
	10									
			SS	6				4-8-18 N=26		
	15					EN OF BORING				

STANDARD PENETRATION TEST DATA
N in blows/ft ◎
× Moisture ◪ PL ✚ LL
0 25 50
STRENGTH, tsf
▲ Qu ✳ Qp
0 2.0 4.0



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The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-17.01

DATE STARTED:	7/24/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/24/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804078°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342146°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.3 feet
	Upon Completion	4.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-5-6-5 N=11			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-8-10-7 N=18			
	5			3				7-8-6-5 N=14			
				4				6-5-4-4 N=9			
				5				6-5-5-5 N=10			
	10					END OF BORING					

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Professional Service Industries, Inc.
7950 N.W. 64th Street
Miami, FL 33166
Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-17.02

DATE STARTED:	7/24/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/24/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803974°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341893°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.4 feet
	Upon Completion	4.4 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ Moisture PL LL (0, 25, 50) STRENGTH, tsf Qu Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	7-9-10-9 N=19			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-8-9-12 N=17			
	5			3				7-10-7-5 N=17			
				4				4-6-6-5 N=12			
				5				6-7-8-7 N=15			
	10					END OF BORING					

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BORING B-17.03

DATE STARTED:	7/24/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/24/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803864°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342147°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.6	feet
Upon Completion	4.6	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					ASPHALT (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP	14-10-11-12 N=21			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-9-9-10 N=18			
	5			3				6-7-7-6 N=14			
				4				6-6-5-7 N=11			
				5				7-6-7-7 N=13			
	10					END OF BORING					

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BORING B-17.04

DATE STARTED:	7/20/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/20/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803709°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342012°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.3	feet
Upon Completion	3.3	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	4-6-7-6 N=13			
				2				8-12-10-10 N=22			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		7-9-8-10 N=17			
				4				9-8-10-9 N=18			
				5				6-5-7-9 N=12			
	10					END OF BORING					

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BORING B-17.05

DATE STARTED:	7/24/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/24/20	**DRILLER:** P.W. **LOGGED BY:**	AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803564°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341884°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG
REMARKS:			

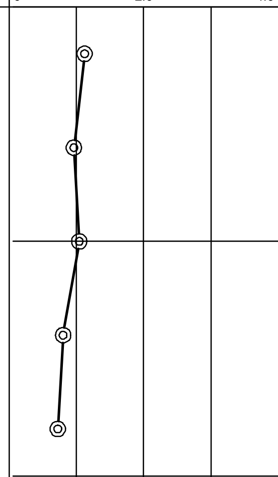
Water

▽	While Drilling	2.6 feet
▼	Upon Completion	2.6 feet
▽	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STANDARD PENETRATION TEST DATA	Additional Remarks
	0					TOPSOIL (2" Thick)					
			SS	1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-4-10-5 N=14			
			SS	2		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		6-7-5-7 N=12			
	5		SS	3				6-7-6-4 N=13			
			SS	4				5-4-6-5 N=10			
			SS	5				8-5-4-4 N=9			
	10					END OF BORING					

STANDARD PENETRATION TEST DATA
N in blows/ft ◎
× Moisture ◪ PL ✚ LL
0 25 50
STRENGTH, tsf
▲ Qu ✳ Qp
0 2.0 4.0



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BORING B-18.01

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803843°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343125°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.5	feet
Upon Completion	3.5	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-8-6-5 N=14			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-6-6-7 N=12			
	5			3				4-5-4-8 N=9			
				4				9-8-10-7 N=18			
				5				10-10-10-7 N=20			
	10					END OF BORING					

Moisture ✕ PL ◪ LL
0 25 50
STRENGTH, tsf ▲ Qu ✳ Qp
0 2.0 4.0

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BORING B-18.02

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804025°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342904°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.7 feet
Upon Completion	3.7 feet
Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-6-8-7 N=14			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-8-5-5 N=13			
	5			3				6-5-9-9 N=14			
				4				6-3-2-10 N=5			
				5				12-11-9-9 N=20			
	10					END OF BORING					

Moisture: × Moisture; ◪ PL; ✚ LL; 0 — 25 — 50

STRENGTH, tsf: ▲ Qu; ✳ Qp; 0 — 2.0 — 4.0

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BORING B-18.03

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804071°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342588°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-6-8-7 N=14			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-7-8-6 N=15			
	5			3				8-7-6-5 N=13			
				4				5-6-8-9 N=14			
				5				9-8-8-5 N=16			
	10					END OF BORING					

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BORING B-18.04

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803846°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342512°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.4	feet
Upon Completion	3.4	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / STRENGTH, tsf	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-14-14-12 N=28			
				2		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	4-4-2-2 N=6			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		4-6-12-12 N=18			
				4				12-14-12-10 N=26			
				5				10-9-9-7 N=18			
	10					END OF BORING					

Moisture ✕ PL ◪ LL — 0 25 50

STRENGTH, tsf ▲ Qu ✳ Qp — 0 2.0 4.0

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BORING B-18.05

DATE STARTED:	7/24/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/24/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803984°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342367°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.4 feet
	Upon Completion	4.4 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0			1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	8-8-9-10 N=17			
				2		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		7-8-7-9 N=15			
	5			3				6-7-5-5 N=12			
				4				4-5-4-5 N=9			
				5				6-6-5-7 N=11			
	10					END OF BORING					

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BORING B-20.01

DATE STARTED:	7/21/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/21/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803239°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341808°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.6 feet
	Upon Completion	3.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	2-2-4-4 N=6			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-9-10-9 N=19			
	5			3				6-6-7-7 N=13			
				4				4-5-7-8 N=12			
				5				6-5-5-4 N=10			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	8-9-11 N=20			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				11-9-15 N=24			
	20										
				8				25-22-17 N=39			
	25										

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BORING B-20.01

DATE STARTED:	7/21/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/21/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803239°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341808°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.6	feet
Upon Completion	3.6	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		14-19-30 N=49			
	35			10				32-25-29 N=54		>>◎	
	40			11				14-17-17 N=34			
	45			12				11-10-31 N=41			
	50			13		END OF BORING		48-50/4" N=50/4"		>>◎	

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DATE STARTED:	7/23/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/23/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802885°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341999°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-20.02

Water		
	While Drilling	3.5 feet
	Upon Completion	3.5 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture ✕ / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	8-12-11-11 N=23			
				2				8-10-14-9 N=24			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		3-3-5-4 N=8			
				4				4-4-5-5 N=9			
				5				7-8-5-7 N=13			
	10										
				6		Light Brown Fine to Medium Grained SAND with Limestone and Cemented Sand Fragments (Fort Thompson Formation)	SP	6-7-7 N=14			
	15										
				7		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		8-8-7 N=15			
	20										
				8				5-6-5 N=11			
	25										

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intertek psi
Professional Service Industries, Inc.
7950 N.W. 64th Street
Miami, FL 33166
Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-20.02

DATE STARTED:	7/23/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/23/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802885°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341999°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.5 feet
	Upon Completion	3.5 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
	30			9				8-10-11 N=21			
	35			10				25-27-20 N=47			
	40			11				11-12-15 N=27			
	45			12				8-7-29 N=36			
	50			13				48-50/5" N=50/5"		>>◎	
						END OF BORING					

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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-20.03

DATE STARTED:	6/30/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/30/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802475°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342256°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.8	feet
Upon Completion	4.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	17-9-7-6 N=16			
				2		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		8-16-15-6 N=31			
	5			3				4-5-5-4 N=10			
				4				4-6-15-9 N=21			
				5				10-8-7-7 N=15			
	10										
				6		Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP	6-7-8 N=15			
	15										
				7		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		17-50/5" N=50/5"		>>◎	
	20										
				8				10-17-19 N=36			
	25										

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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-20.03

DATE STARTED:	6/30/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/30/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802475°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342256°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.8	feet
Upon Completion	4.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		16-18-22 N=40			
	35			10				19-17-16 N=33			
	40			11				25-28-19 N=47			
	45			12				16-11-21 N=32			
	50			13				33-28-29 N=57		>>◎	
						END OF BORING					

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City of Doral, Miami-Dade County, Florida

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BORING B-20.04

DATE STARTED:	6/30/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/30/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802054°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342822°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	5.0 feet
	Upon Completion	5.0 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-12-8-6 N=20			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-12-14-8 N=26			
	5			3				4-4-5-5 N=9			
				4				3-4-12-6 N=16			
				5				9-9-8-7 N=17			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	6-6-8 N=14			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				14-45-47 N=92		>>	
	20										
				8				15-16-18 N=34			
	25										

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Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-20.04

DATE STARTED:	6/30/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/30/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802054°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342822°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	5.0	feet
Upon Completion	5.0	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		12-17-19 N=36			
	35			10				14-16-14 N=30			
	40			11				20-25-14 N=39			
	45			12				10-12-16 N=28			
	50			13				35-31-34 N=65		>>◎	
						END OF BORING					

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PROJECT NO.: 0397-1537
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BORING B-20.05

DATE STARTED:	6/30/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/30/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801825°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343238°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.3 feet
	Upon Completion	4.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-3-6-5 N=9			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-5-7-4 N=12			
	5			3				6-5-7-6 N=12			
				4				6-4-4-7 N=8			
				5				5-6-5-6 N=11			
	10										
						Light Brown Fine to Medium Grained SAND with Limestone and Cemented Sand Fragments (Fort Thompson Formation)					
				6			SP	4-4-5 N=9			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				7-7-6 N=13			
	20										
				8				6-11-15 N=26			
	25										

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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-20.05

DATE STARTED:	6/30/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/30/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801825°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343238°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.3 feet
	Upon Completion	4.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		9-10-10 N=20			
	35			10				16-14-15 N=29			
	40			11				15-10-10 N=20			
	45			12				11-11-9 N=20			
	50			13		END OF BORING		21-23-20 N=43			

Professional Service Industries, Inc.
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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
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City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-20.06

DATE STARTED:	6/30/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/30/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801426°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343066°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.8 feet
	Upon Completion	4.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	6-6-5-3 N=11			
				2				3-4-5-5 N=9			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		4-4-5-4 N=9			
				4				3-3-5-4 N=8			
				5				4-4-6-5 N=10			
	10										
				6		Light Brown Fine to Medium Grained SAND with Limestone and Cemented Sand Fragments (Fort Thompson Formation)	SP	3-2-3 N=5			
	15										
				7		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		9-5-4 N=9			
	20										
				8				9-16-20 N=36			
	25										

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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-20.06

DATE STARTED:	6/30/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/30/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	50.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801426°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343066°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.8 feet
	Upon Completion	4.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
	30			9				11-13-12 N=25			
	35			10				20-17-17 N=34			
	40			11				17-12-12 N=24			
	45			12				9-9-7 N=16			
	50			13				25-25-22 N=47			
						END OF BORING					

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PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

DATE STARTED:	7/24/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/24/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802037°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343199°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-21.01

Water		
	While Drilling	3.2 feet
	Upon Completion	3.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-5-9-12 N=14			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-5-4-7 N=9			
	5			3				4-5-7-7 N=12			
				4				5-5-6-6 N=11			
				5				7-6-5-6 N=11			
	10					END OF BORING					

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BORING B-21.02

DATE STARTED:	7/23/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/23/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802205°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342911°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.0	feet
Upon Completion	3.0	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	7-9-9-10 N=18			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-7-11-9 N=18			
	5			3				2-4-4-5 N=8			
				4				5-4-4-5 N=8			
				5				6-7-6-6 N=13			
	10					END OF BORING					

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PROJECT: Doral Central Park
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BORING B-21.03

DATE STARTED:	7/23/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/23/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802193°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342561°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.0	feet
Upon Completion	3.0	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-6-8-7 N=14			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-7-11-8 N=18			
	5			3				3-4-3-5 N=7			
				4				3-4-4-5 N=8			
				5				7-6-4-6 N=10			
	10					END OF BORING					

Moisture: × Moisture; ◪ PL; ✚ LL; 0 — 25 — 50

STRENGTH, tsf: ▲ Qu; ✳ Qp; 0 — 2.0 — 4.0

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Professional Service Industries, Inc.
7950 N.W. 64th Street
Miami, FL 33166
Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-22.01

DATE STARTED:	7/24/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/24/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804282°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343997°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.8	feet
Upon Completion	3.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	5-6-6-5 N=12			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				8-12-19-15 N=31			
	5			3				7-6-7-7 N=13			
						END OF BORING					

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BORING B-22.02

DATE STARTED:	8/5/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/5/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804243°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.337544°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.6 feet
	Upon Completion	4.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	2-4-6-8 N=10			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-5-4-3 N=9			
	5			3				5-8-4-5 N=12			
						END OF BORING					

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BORING B-22.03

DATE STARTED:	7/7/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/7/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802331°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344631°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown to Brown Silty SAND with Limerock	SM	2-4-5-5 N=9			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-3-4-5 N=7			
	5			3				6-8-10-10 N=18			
						END OF BORING					

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BORING B-22.04

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.800739°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.337454°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	2.4	feet
Upon Completion	2.4	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		7-9-6-10 N=15			
				2				9-12-11-7 N=23			
	5			3				6-10-7-10 N=17			
						END OF BORING					

Moisture ✕ PL ◪ LL (0 — 25 — 50)

STRENGTH, tsf ▲ Qu ✳ Qp (0 — 2.0 — 4.0)

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BORING B-24.01

DATE STARTED:	7/7/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/7/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802421°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343921°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.6 feet
	Upon Completion	3.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0 25 50) STRENGTH, tsf ▲ Qu ✳ Qp (0 2.0 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	2-2-4-6 N=6			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				9-12-12-14 N=24			
	5			3				12-14-10-11 N=24			
						END OF BORING					

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BORING B-24.02

DATE STARTED:	7/7/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/7/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801701°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344184°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-4-4-5 N=8			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-5-6-9 N=11			
	5			3				8-8-7-8 N=15			
						END OF BORING					

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BORING B-24.03 / P-14

DATE STARTED:	7/8/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/8/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.800911°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.343561°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	6-4-4-3 N=8			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-4-5-7 N=9			
	5			3				5-7-7-7 N=14			
				4				10-11-10-10 N=21			
				5				7-8-8-7 N=16			
	10										
						Light Brown Fine to Medium Grained SAND with Limestone and Cemented Sand Fragments (Fort Thompson Formation)	SP				
				6				6-7-7 N=14			
	15					END OF BORING					

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BORING B-24.04

DATE STARTED:	7/24/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/24/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.800911°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342331°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.6	feet
Upon Completion	3.6	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-4-6-6 N=10			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-9-14-16 N=23			
	5			3				7-8-6-8 N=14			
						END OF BORING					

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BORING B-24.05 / P-05

DATE STARTED:	8/4/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/4/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.800914°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341084°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.4 feet
	Upon Completion	2.4 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-6-7-6 N=13			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				8-12-10-11 N=22			
	5			3				7-9-8-10 N=17			
				4				7-8-10-9 N=18			
				5				6-8-7-8 N=15			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP				
				6				5-7-7 N=14			
	15					END OF BORING					

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BORING B-24.06

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.800908°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339801°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-5-7-5 N=12			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-4-6-6 N=10			
	5			3				6-5-4-4 N=9			
						END OF BORING					

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BORING B-24.07

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.800903°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338607°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.2	feet
Upon Completion	3.2	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-7-11-14 N=18			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2		▼		7-9-7-19 N=16			
	5			3				9-11-7-8 N=18			
						END OF BORING					

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BORING B-24.08

DATE STARTED:	8/5/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/5/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804273°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338718°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.4	feet
Upon Completion	4.4	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP	2-6-10-12 N=16			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-6-5-5 N=11			
	5			3				5-5-6-5 N=11			
						END OF BORING					

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BORING B-24.09

DATE STARTED:	8/3/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/3/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804271°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339929°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-3-5-6 N=8			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-9-5-7 N=14			
	5			3				5-8-7-7 N=15			
						END OF BORING					

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Professional Service Industries, Inc.
7950 N.W. 64th Street
Miami, FL 33166
Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-24.10 / P-04

DATE STARTED:	8/4/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/4/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804247°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341197°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.1 feet
	Upon Completion	3.1 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-5-7-6 N=12			
				2		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	6-3-1-1 N=4			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		2-5-6-6 N=11			
				4				9-11-14-12 N=25			
				5				11-10-10-7 N=20			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP				
				6				7-7-8 N=15			
	15					END OF BORING					

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BORING B-24.11

DATE STARTED:	7/24/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/24/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804255°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342612°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.0 feet
	Upon Completion	3.0 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	3-5-5-6 N=10			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				9-14-25-19 N=39			
	5			3				6-7-7-8 N=14			
						END OF BORING					

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BORING B-24.12

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803694°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.344161°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.8 feet
	Upon Completion	3.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-9-7-11 N=16			
						Brown Fine to Medium Grained SAND (Pamlico Formation)					
				2			SP-SM	8-7-7-12 N=14			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		9-6-9-10 N=15			
						END OF BORING					

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BORING B-26.01

DATE STARTED:	8/3/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/3/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803866°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340729°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.6 feet
	Upon Completion	3.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-5-5-9 N=10			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-6-7-10 N=13			
	5			3				7-9-9-9 N=18			
						END OF BORING					

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BORING B-26.02

DATE STARTED:	8/3/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/3/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803805°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340185°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.5	feet
Upon Completion	3.5	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0 25 50) STRENGTH, tsf ▲ Qu ✳ Qp (0 2.0 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	2-6-8-11 N=14			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-6-9-12 N=15			
	5			3				11-10-10-11 N=20			
						END OF BORING					

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BORING B-26.03

DATE STARTED:	8/3/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/3/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803427°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340047°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.6 feet
	Upon Completion	3.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-4-6-9 N=10			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-5-8-8 N=13			
	5			3				9-10-9-9 N=19			
						END OF BORING					

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BORING B-27.01

DATE STARTED:	7/20/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/20/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	20.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803391°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341575°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.3 feet
	Upon Completion	3.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	2-4-5-6 N=9			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-6-6-5 N=12			
	5			3				5-4-4-6 N=8			
				4				7-6-5-5 N=11			
				5				5-8-6-6 N=14			
	10										
						Light Brown Fine to Medium Grained SAND with Limestone and Cemented Sand Fragments (Fort Thompson Formation)					
				6				5-7-4 N=11			
	15						SP				
				7				5-5-6 N=11			
	20					END OF BORING					

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BORING B-28.01

DATE STARTED:	7/20/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/20/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	20.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803426°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339825°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.3 feet
	Upon Completion	3.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-6-6-8 N=12			
				2		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	6-5-2-9 N=7			
	5			3				7-7-6-7 N=13			
				4		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		5-7-9-10 N=16			
				5				5-5-7-5 N=12			
	10										
				6		Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP	3-4-4 N=8			
	15										
				7		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		7-8-8 N=16			
	20					END OF BORING					

Moisture ✕ PL ◪ LL (0 — 25 — 50)

STRENGTH, tsf ▲ Qu ✳ Qp (0 — 2.0 — 4.0)

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BORING B-28.02

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	20.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801565°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340761°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	2.0	feet
Upon Completion	2.0	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	2-2-2-5 N=4			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				8-13-10-9 N=23			
	5			3				8-7-7-5 N=14			
				4				5-5-4-5 N=9			
				5				4-4-3-4 N=7			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	2-5-5 N=10			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				7-8-8 N=16			
	20					END OF BORING					

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BORING B-29.01

DATE STARTED:	7/6/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/6/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803939°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342742°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.6	feet
Upon Completion	3.6	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-12-12-12 N=24			
						Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	4-3-3-2 N=6			
				2							
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		3-4-10-12 N=14			
				4				10-10-12-10 N=22			
				5				10-10-9-8 N=19			
	10					END OF BORING					

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DATE STARTED:	7/21/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/21/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803591°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342121°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-29.02

Water		
	While Drilling	3.3 feet
	Upon Completion	3.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	2-3-4-5 N=7			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-7-8-10 N=15			
	5			3				7-6-5-7 N=11			
				4				4-4-6-9 N=10			
				5				5-5-4-5 N=9			
	10					END OF BORING					

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BORING B-29.03

DATE STARTED:	7/20/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/20/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804051°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340766°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.6	feet
Upon Completion	3.6	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	6-7-8-7 N=15			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-6-6-7 N=12			
	5			3				6-8-9-9 N=17			
				4				7-7-8-8 N=15			
				5				5-6-6-5 N=12			
	10					END OF BORING					

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City of Doral, Miami-Dade County, Florida

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BORING B-29.04

DATE STARTED:	7/20/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/20/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803936°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340301°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.6	feet
Upon Completion	3.6	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-5-5-6 N=10			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-4-4-7 N=8			
	5			3				6-7-7-6 N=14			
				4				6-6-8-9 N=14			
				5				5-5-6-6 N=11			
	10					END OF BORING					

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BORING B-29.05

DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/15/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803146°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340025°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.7 feet
	Upon Completion	2.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		3-8-8-6 N=16			
				2				12-9-7-8 N=16			
	5			3				7-8-8-10 N=16			
				4				7-7-7-7 N=14			
				5				4-5-5-4 N=10			
	10					END OF BORING					

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BORING B-29.06

DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/15/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802805°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339692°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.5 feet
	Upon Completion	3.5 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ Moisture PL LL (0 25 50) STRENGTH, tsf Qu Qp (0 2.0 4.0)	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		6-7-8-5 N=15			
				2				9-9-6-8 N=15			
	5			3				6-6-8-11 N=14			
				4				10-9-6-7 N=15			
				5				6-5-6-4 N=11			
	10					END OF BORING					

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BORING B-29.07

DATE STARTED:	7/16/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/16/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802395°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338435°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.3 feet
	Upon Completion	3.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-7-8-11 N=15			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-4-4-5 N=8			
	5			3				5-7-7-7 N=14			
				4				7-9-8-9 N=17			
				5				7-7-9-8 N=16			
	10					END OF BORING					

Moisture: × Moisture; ◪ PL; ✚ LL; 0 — 25 — 50

STRENGTH, tsf: ▲ Qu; ✳ Qp; 0 — 2.0 — 4.0

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BORING B-29.08

DATE STARTED:	7/16/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/16/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801986°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338051°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.6	feet
Upon Completion	4.6	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	2-2-2-5 N=4			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-9-10-9 N=19			
	5			3				7-8-7-8 N=15			
				4				6-4-4-4 N=8			
				5				6-5-8-9 N=13			
	10					END OF BORING					

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BORING B-29.09

DATE STARTED:	7/16/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/16/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801554°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338061°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.3	feet
Upon Completion	4.3	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ Moisture PL LL (0 25 50) STRENGTH, tsf Qu Qp (0 2.0 4.0)	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-4-3-5 N=7			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-7-7-9 N=14			
	5			3				7-7-8-7 N=15			
				4				7-6-5-5 N=11			
				5				5-5-6-9 N=11			
	10					END OF BORING					

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BORING B-29.10

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801268°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338301°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.8	feet
Upon Completion	4.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		5-11-8-7 N=19			
				2				6-11-12-8 N=23			
	5			3				5-4-5-6 N=9			
				4				4-4-7-6 N=11			
				5				6-5-6-8 N=11			
	10					END OF BORING					

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BORING B-29.11

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801172°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339012°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.8 feet
	Upon Completion	4.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		4-5-7-10 N=12			
				2				8-11-9-11 N=20			
	5			3				7-7-5-5 N=12			
				4				5-7-7-7 N=14			
				5				7-8-5-6 N=13			
	10					END OF BORING					

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BORING B-29.12

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801453°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340491°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.2 feet
	Upon Completion	3.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-3-3-6 N=6			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-6-5-5 N=11			
	5			3				5-7-7-6 N=14			
				4				7-5-9-8 N=14			
				5				7-6-4-6 N=10			
	10					END OF BORING					

Moisture ✕ PL ◪ LL (0 — 25 — 50)

STRENGTH, tsf ▲ Qu ✳ Qp (0 — 2.0 — 4.0)

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BORING B-29.13

DATE STARTED:	7/1/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/1/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801328°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341838°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.8	feet
Upon Completion	3.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	12-14-14-23 N=28			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				8-10-9-9 N=19			
	5			3				7-6-5-7 N=11			
				4				7-7-8-8 N=15			
				5				7-8-9-8 N=17			
	10					END OF BORING					

Moisture: × Moisture; ◪ PL; ✚ LL; 0 25 50

STRENGTH, tsf: ▲ Qu; ✳ Qp; 0 2.0 4.0

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BORING B-29.14

DATE STARTED:	7/1/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/1/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801428°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342248°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.5	feet
Upon Completion	4.5	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-5-5-6 N=10			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-12-23-10 N=35			
	5			3				5-6-6-7 N=12			
				4				6-7-7-8 N=14			
				5				8-8-9-9 N=17			
	10					END OF BORING					

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BORING B-29.15

DATE STARTED:	7/21/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/21/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802962°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342118°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.3	feet
Upon Completion	3.3	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	2-3-3-4 N=6			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-9-10-10 N=19			
	5			3				6-7-8-8 N=15			
				4				5-4-4-9 N=8			
				5				5-6-5-5 N=11			
	10					END OF BORING					

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BORING B-29.16

DATE STARTED:	7/21/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/21/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803228°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342181°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.2 feet
	Upon Completion	3.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	2-3-3-5 N=6			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-7-7-9 N=14			
	5			3				4-5-7-6 N=12			
				4				5-6-6-7 N=12			
				5				6-6-5-5 N=11			
	10					END OF BORING					

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Professional Service Industries, Inc.
7950 N.W. 64th Street
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Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-29.17

DATE STARTED:	7/23/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/23/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803503°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342391°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.5 feet
Upon Completion	3.5 feet
Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-5-7-6 N=12			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				8-12-9-10 N=21			
	5			3				7-8-9-10 N=16			
				4				6-5-4-4 N=9			
				5				5-6-4-6 N=10			
	10					END OF BORING					

Moisture ✕ PL ◪ LL (0 — 25 — 50)

STRENGTH, tsf ▲ Qu ✳ Qp (0 — 2.0 — 4.0)

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BORING B-30.01

DATE STARTED:	7/20/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/20/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803926°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341295°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.6 feet
	Upon Completion	3.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	4-5-5-6 N=10			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-7-10-11 N=17			
	5			3				6-7-7-7 N=14			
				4				5-5-8-9 N=13			
				5				6-6-5-7 N=11			
	10					END OF BORING					

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BORING B-30.02

DATE STARTED:	7/20/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/20/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803781°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340985°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.8	feet
Upon Completion	3.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	3-5-5-6 N=10			
				2				5-5-9-8 N=14			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		6-7-10-11 N=17			
				4				8-9-10-10 N=19			
				5				6-6-7-8 N=13			
	10					END OF BORING					

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BORING B-30.03

DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/15/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803788°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339731°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.4	feet
Upon Completion	3.4	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	2-3-5-5 N=8			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-5-6-4 N=11			
	5			3				4-4-4-4 N=8			
				4				7-7-6-7 N=13			
				5				6-5-5-6 N=10			
	10					END OF BORING					

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BORING B-30.04

DATE STARTED:	7/16/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/16/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802726°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338484°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.9 feet
	Upon Completion	2.9 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-5-10-14 N=15			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-3-5-5 N=8			
	5			3				4-5-7-7 N=12			
				4				9-7-11-11 N=18			
				5				7-9-9-7 N=18			
	10					END OF BORING					

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BORING B-30.05

DATE STARTED:	7/1/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/1/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801166°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340428°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.3	feet
Upon Completion	4.3	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-6-8-11 N=14			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				9-12-9-12 N=21			
	5			3				8-7-5-6 N=12			
				4				6-8-8-7 N=16			
				5				7-9-6-5 N=15			
	10					END OF BORING					

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DATE STARTED:	8/4/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/4/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.804113°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338902°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-31.01 / P-07

Water		
	While Drilling	4.2 feet
	Upon Completion	4.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	2-3-7-6 N=10			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-6-3-3 N=9			
	5			3				4-8-8-7 N=16			
				4				6-6-4-6 N=10			
				5				6-8-7-7 N=15			
	10					Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP				
				6				3-4-4 N=8			
	15					END OF BORING					

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DATE STARTED:	7/16/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/16/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803413°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338837°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

BORING B-31.02 / DRI-3

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-4-8-12 N=12			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-6-4-7 N=10			
	5			3				5-5-6-7 N=11			
				4				7-9-11-9 N=20			
				5				8-9-7-8 N=16			
	10					END OF BORING					

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BORING B-31.03

DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/15/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802845°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338926°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.5	feet
Upon Completion	3.5	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture ✕ / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	3-4-4-3 N=8			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-4-3-3 N=7			
	5			3				3-4-5-5 N=9			
				4				6-7-6-6 N=13			
				5				6-7-7-7 N=14			
	10					END OF BORING					

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BORING B-31.04

DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/15/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803421°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339477°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.5	feet
Upon Completion	3.5	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP-SM	3-5-4-4 N=9			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-4-4-4 N=8			
	5			3				3-5-4-3 N=9			
				4				6-5-5-7 N=10			
				5				6-7-7-6 N=14			
	10					END OF BORING					

Moisture: × Moisture; ◪ PL; ✚ LL; 0 — 25 — 50

STRENGTH, tsf: ▲ Qu; ✳ Qp; 0 — 2.0 — 4.0

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BORING B-31.05

DATE STARTED:	7/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803411°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338271°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	6.5 feet
	Upon Completion	6.5 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	8-9-6-7 N=15			
				2				7-14-7-8 N=21			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		10-6-5-6 N=11			
				4				5-4-5-5 N=9			
				5				5-7-6-7 N=13			
	10					END OF BORING					

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BORING B-32.01

DATE STARTED:	7/16/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/16/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802618°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338832°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.0 feet
	Upon Completion	4.0 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-4-7-10 N=11			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-5-7-6 N=12			
	5			3				5-7-7-5 N=14			
				4				8-9-9-10 N=18			
				5				6-7-8-6 N=15			
	10					END OF BORING					

Moisture ✕ PL ◪ LL (0 25 50)

STRENGTH, tsf ▲ Qu ✳ Qp (0 2.0 4.0)

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Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-32.02

DATE STARTED:	7/16/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/16/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802198°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338045°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.9	feet
Upon Completion	3.9	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-3-4-6 N=7			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				8-12-9-10 N=21			
	5			3				7-9-7-8 N=16			
				4				5-5-4-5 N=9			
				5				5-6-8-7 N=14			
	10					END OF BORING					

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BORING B-32.03

DATE STARTED:	7/16/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/16/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801349°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338077°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.2	feet
Upon Completion	4.2	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-2-3-3 N=5			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-5-6-5 N=11			
	5			3				5-6-6-7 N=12			
				4				7-9-10-9 N=19			
				5				6-6-7-7 N=13			
	10					END OF BORING					

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BORING B-32.04

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801075°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338515°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.6 feet
	Upon Completion	4.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		6-6-11-19 N=17			
				2				9-8-8-11 N=16			
	5			3				11-12-9-9 N=21			
				4				8-7-6-7 N=13			
				5				5-5-7-7 N=12			
	10					END OF BORING					

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BORING B-32.05

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801175°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339468°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.7 feet
	Upon Completion	4.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		8-12-8-11 N=20			
				2				7-14-10-11 N=24			
	5			3				9-8-7-5 N=15			
				4				5-7-7-6 N=14			
				5				4-5-5-4 N=10			
	10					END OF BORING					

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BORING B-32.06

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801281°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339963°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.8 feet
	Upon Completion	4.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		5-7-8-7 N=15			
				2				5-10-8-8 N=18			
	5			3				5-7-6-5 N=13			
				4				6-5-6-8 N=11			
				5				5-7-7-8 N=14			
	10					END OF BORING					

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BORING B-32.07

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801812°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.340785°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.5 feet
	Upon Completion	3.5 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	2-5-5-10 N=10			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				10-8-6-7 N=14			
	5			3				6-5-9-9 N=14			
				4				9-8-8-6 N=16			
				5				4-4-5-5 N=9			
	10					END OF BORING					

Moisture: × Moisture; ◪ PL; ✚ LL; 0 25 50

STRENGTH, tsf: ▲ Qu; ✳ Qp; 0 2.0 4.0

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BORING B-32.08

DATE STARTED:	7/2/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/2/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801621°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341632°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.3 feet
	Upon Completion	4.3 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	2-4-5-4 N=9			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				6-10-6-8 N=16			
	5			3				5-6-8-6 N=14			
				4				6-7-7-5 N=14			
				5				5-4-8-8 N=12			
	10					END OF BORING					

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BORING B-32.09

DATE STARTED:	7/1/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/1/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.801386°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.342659°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG
REMARKS:			

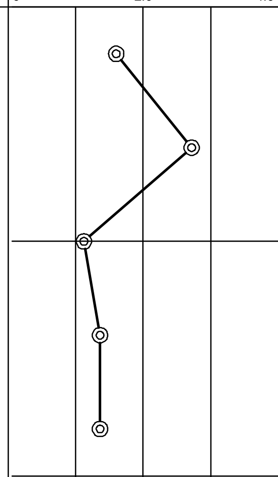
Water

While Drilling	4.8	feet
Upon Completion	4.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	Additional Remarks
	0					TOPSOIL (3" Thick)				
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-10-10-6 N=20		
				2		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		7-24-10-8 N=34		
	5			3				8-6-8-9 N=14		
				4				7-9-8-9 N=17		
				5				10-8-9-9 N=17		
	10					END OF BORING				

STANDARD PENETRATION TEST DATA
N in blows/ft ◎
× Moisture ◪ PL ✚ LL
0 25 50
STRENGTH, tsf
▲ Qu ✳ Qp
0 2.0 4.0



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BORING B-32.10

DATE STARTED:	7/20/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/20/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803781°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.341584°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.8	feet
Upon Completion	3.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	3-4-5-5 N=9			
				2				4-5-7-7 N=12			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		5-7-9-8 N=16			
				4				8-10-9-9 N=19			
				5				6-7-8-6 N=15			
	10					END OF BORING					

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BORING B-33.01

DATE STARTED:	7/15/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/15/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803964°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339408°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	3.4	feet
Upon Completion	3.4	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	4-4-3-3 N=7			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				3-4-3-2 N=7			
	5			3				3-3-4-5 N=7			
				4				7-6-6-7 N=12			
				5				7-6-5-7 N=11			
	10					END OF BORING					

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BORING B-33.02

DATE STARTED:	7/24/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/24/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803874°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338351°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	6.2 feet
	Upon Completion	6.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	6-8-6-8 N=14			
				2				8-12-8-9 N=20			
	5			3		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		7-6-6-5 N=12			
				4				4-4-5-5 N=9			
				5				6-6-7-7 N=13			
	10					END OF BORING					

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BORING B-33.03 / P-06

DATE STARTED:	8/5/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/5/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802871°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339371°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.0 feet
	Upon Completion	4.0 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-5-5-4 N=10			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-5-5-6 N=10			
	5			3				6-6-7-6 N=13			
				4				4-4-5-5 N=9			
				5				5-7-5-6 N=12			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP				
				6				4-5-5 N=10			
	15					END OF BORING					

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BORING B-33.04 / P-08

DATE STARTED:	8/4/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/4/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803011°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338314°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.2 feet
	Upon Completion	3.2 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	1-2-3-3 N=5			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				3-3-7-7 N=10			
	5			3				7-8-5-4 N=13			
				4				6-6-5-7 N=11			
				5				9-6-7-4 N=13			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP				
				6				6-6-5 N=11			
	15					END OF BORING					

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7950 N.W. 64th Street
Miami, FL 33166
Telephone: (305) 471-7725

PROJECT NO.: 0397-1537
PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
City of Doral, Miami-Dade County, Florida

The stratification lines represent approximate boundaries. The transition may be gradual.

BORING B-34.01

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.800749°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339444°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	2.8	feet
Upon Completion	2.8	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture / PL / LL (0, 25, 50) / STRENGTH, tsf Qu / Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	3-3-4-5 N=7			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				10-21-10-9 N=31			
	5			3				6-7-6-7 N=13			
				4				7-6-7-8 N=13			
				5				5-5-6-7 N=11			
	10					END OF BORING					

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BORING B-34.02

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.800681°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.339122°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.6 feet
	Upon Completion	2.6 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (2" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	2-4-5-4 N=9			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				11-24-14-10 N=38			
	5			3				7-8-8-7 N=16			
				4				7-7-8-8 N=15			
				5				6-7-7-9 N=14			
	10					END OF BORING					

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BORING B-35.01

DATE STARTED:	8/5/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/5/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	6.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.800739°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.338781°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water

While Drilling	4.2	feet
Upon Completion	4.2	feet
Delay	N/A	

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-6-6-7 N=12			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-7-8-8 N=15			
	5			3				8-7-6-6 N=13			
						END OF BORING					

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BORING B-35.02 / P-15

DATE STARTED:	6/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	6/27/20	**DRILLER:** P.W.	**LOGGED BY:** AVL
COMPLETION DEPTH	15.0 ft	**DRILL RIG:**	CME-75
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.800726°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.337981°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	2.8 feet
	Upon Completion	2.8 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture ✕ / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (3" Thick)					
				1		Brown Fine to Medium Grained SAND (Pamlico Formation)	SP	4-3-3-3 N=6			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				4-4-6-7 N=10			
	5			3				5-5-6-6 N=11			
				4				6-7-5-5 N=12			
				5				5-6-6-5 N=12			
	10										
				6				3-4-4 N=8			
	15					END OF BORING					

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LOCATION: 3000 NW 87th Avenue
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DATE STARTED:	7/27/20	**DRILL COMPANY:**	PSI, Inc.		
DATE COMPLETED:	7/27/20	**DRILLER:** L.R.	**LOGGED BY:** AVL		
COMPLETION DEPTH	35.0 ft	**DRILL RIG:**	CME-55		
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling		
ELEVATION:	N/A	**SAMPLING METHOD:**	SS		
LATITUDE:	25.803397°	**HAMMER TYPE:**	Automatic		
LONGITUDE:	-80.337621°	**EFFICIENCY**	N/A		
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG		

REMARKS:

BORING B-36.01 / P-09

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	3-5-7-7 N=12			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				7-9-10-10 N=19			
	5			3				10-10-4-5 N=14			
				4				7-7-5-6 N=12			
				5				6-5-5-4 N=10			
	10										
				6		Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)	SP	2-2-3 N=5			
	15										
				7		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		11-6-6 N=12			
	20										
				8				15-13-13 N=26			
	25										

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BORING B-36.01 / P-09

DATE STARTED:	7/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/27/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	35.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.803397°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.337621°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	3.7 feet
	Upon Completion	3.7 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ / Moisture × / PL ◪ / LL ✚ (0, 25, 50) / STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		18-14-12 N=26			
	35			10		END OF BORING		14-15-12 N=27			

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BORING B-36.02 / DRI-4

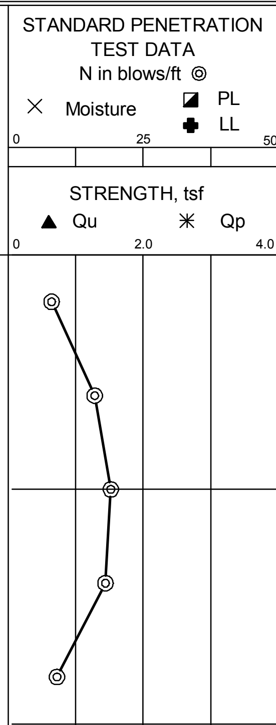
DATE STARTED:	8/5/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	8/5/20	**DRILLER:** L.R. **LOGGED BY:**	AVL
COMPLETION DEPTH	10.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802804°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.337897°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG
REMARKS:			

Water

∇ While Drilling	4.1	feet
▼ Upon Completion	4.1	feet
∇ Delay		N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	4-4-4-6 N=8			
				2		Light Brown Weathered Oolitic LIMESTONE (Miami Formation)		5-6-10-11 N=16			
	5			3				10-10-9-9 N=19			
				4				9-10-8-6 N=18			
				5				5-3-6-6 N=9			
	10					END OF BORING					



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PROJECT: Doral Central Park
LOCATION: 3000 NW 87th Avenue
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BORING B-36.03 / P-10

DATE STARTED:	7/27/20	**DRILL COMPANY:**	PSI, Inc.
DATE COMPLETED:	7/27/20	**DRILLER:** L.R.	**LOGGED BY:** AVL
COMPLETION DEPTH	35.0 ft	**DRILL RIG:**	CME-55
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling
ELEVATION:	N/A	**SAMPLING METHOD:**	SS
LATITUDE:	25.802208°	**HAMMER TYPE:**	Automatic
LONGITUDE:	-80.337571°	**EFFICIENCY**	N/A
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG

REMARKS:

Water		
	While Drilling	4.4 feet
	Upon Completion	4.4 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	0					TOPSOIL (6" Thick)					
				1		Brown Fine to Medium Grained SAND with Limerock - Fill	SP-SM	5-7-5-5 N=12			
						Light Brown Weathered Oolitic LIMESTONE (Miami Formation)					
				2				5-6-8-7 N=14			
	5			3				7-8-6-6 N=14			
				4				6-5-7-7 N=12			
				5				7-8-6-5 N=14			
	10										
						Light Brown Fine to Medium Grained SAND (Fort Thompson Formation)					
				6			SP	4-3-4 N=7			
	15										
						Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)					
				7				10-8-7 N=15			
	20										
				8				11-11-10 N=21			
	25										

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DATE STARTED:	7/27/20	**DRILL COMPANY:**	PSI, Inc.		
DATE COMPLETED:	7/27/20	**DRILLER:** L.R.	**LOGGED BY:** AVL		
COMPLETION DEPTH	35.0 ft	**DRILL RIG:**	CME-55		
BENCHMARK:	N/A	**DRILLING METHOD:**	Rotary Drilling		
ELEVATION:	N/A	**SAMPLING METHOD:**	SS		
LATITUDE:	25.802208°	**HAMMER TYPE:**	Automatic		
LONGITUDE:	-80.337571°	**EFFICIENCY**	N/A		
STATION: N/A	**OFFSET:** N/A	**REVIEWED BY:**	JNG		

REMARKS:

BORING B-36.03 / P-10

Water		
	While Drilling	4.4 feet
	Upon Completion	4.4 feet
	Delay	N/A

BORING LOCATION:
Figures 2A & 2B of Appendix A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification		Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ × Moisture ◪ PL ✚ LL (0, 25, 50) STRENGTH, tsf ▲ Qu ✳ Qp (0, 2.0, 4.0)	Additional Remarks
	30			9		Light Gray LIMESTONE and Cemented Sand (Fort Thompson Formation)		14-11-15 N=26			
	35			10		END OF BORING		17-19-14 N=33			

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KEY TO TERMS AND SYMBOLS USED ON LOGS

ROCK CLASSIFICATION

RECOVERY

DESCRIPTION OF RECOVERY	% CORE RECOVERY
Incompetent	< 40
Competent	40 TO 70
Fairly Continuous	70 TO 90
Continuous	90 TO 100

ROCK QUALITY DESIGNATION (RQD)

DESCRIPTION OF ROCK QUALITY	RQD
Very Poor (VPo)	0 TO 25
Poor (Po)	25 TO 50
Fair (F)	50 TO 75
Good (Gd)	75 TO 90
Excellent (ExInt)	90 TO 100

CONSISTENCY OF COHESIVE SOILS

CONSISTENCY	N-VALUE (Blows/Foot)	SHEAR STRENGTH (tsf)	HAND PEN VALUE (tsf)
Very Soft	0 TO 2	0 TO 0.125	0 TO 0.25
Soft	2 TO 4	0.125 TO 0.25	0.25 TO 0.5
Firm	4 TO 8	0.25 TO 0.5	0.5 TO 1.0
Stiff	8 TO 15	0.5 TO 1.0	1.0 TO 2.0
Very Stiff	15 TO 30	1.0 TO 2.0	2.0 TO 4.0
Hard	>30	>2.0 OR 2.0+	>4.0 OR 4.0+

SOIL DENSITY OR CONSISTENCY

DENSITY (GRANULAR)	CONSISTENCY (COHESIVE)	THD (BLOWS/FT)	FIELD IDENTIFICATION
Very Loose (VLo)	Very Soft (VSo)	0 TO 8	Core (height twice diameter) sags under own weight
Loose (Lo)	Soft (So)	8 TO 20	Core can be pinched or imprinted easily with finger
Slightly Compact (SlCmpt)	Stiff (St)	20 TO 40	Core can be imprinted with considerable pressure
Compact (Cmpt)	Very Stiff (VSt)	40 TO 80	Core can only be imprinted slightly with fingers
Dense (De)	Hard (H)	80 TO 5"/100	Core cannot be imprinted with fingers but can be penetrated with pencil
Very Dense (VDe)	Very Hard (VH)	5"/100 to 0"/100	Core cannot be penetrated with pencil

DEGREE OF PLASTICITY OF COHESIVE SOILS

DEGREE OF PLASTICITY	PLASTICITY INDEX (PI)	SWELL POTENTIAL
None or Slight	0 to 4	None
Low	4 to 20	Low
Medium	20 to 30	Medium
High	30 to 40	High
Very High	>40	Very High

BEDROCK HARDNESS

MORHS' SCALE	CHARACTERISTICS	EXAMPLES	APPROXIMATE THD PEN TEST	
5.5 to 10	Rock will scratch knife	Sandstone, Chert, Schist, Granite, Gneiss, some Limestone	Very Hard (VH)	0" to 2"/100
3 to 5.5	Rock can be scratched with knife blade	Siltstone, Shale, Iron Deposits, most Limestone	Hard (H)	1" to 5"/100
1 to 3	Rock can be scratched with fingernail	Gypsum, Calcite, Evaporites, Chalk, some Shale	Soft (So)	4" to 6"/100

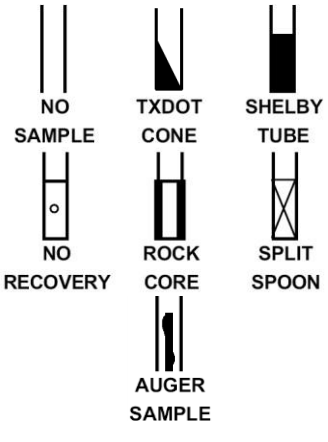
MOISTURE CONDITION OF COHESIVE SOILS

DESCRIPTION	CONDITION
Absence of moisture, dusty, dry to touch	DRY
Damp but no visible water	MOIST
Visible free water	WET

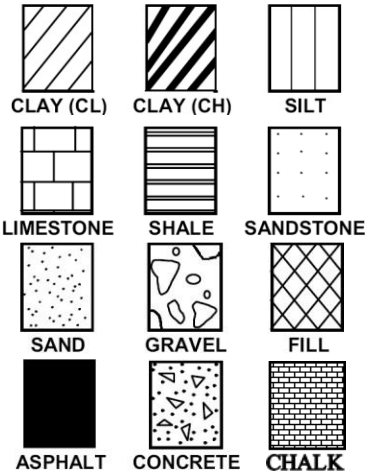
RELATIVE DENSITY FOR GRANULAR SOILS

APPARENT DESNITY	SPT (BLOWS/FT) SAFETY HAMMER	CALIFORNIA SAMPLER (BLOWS/FT)	MODIFIED CA. SMAPLER (BLOWS/FT)	RELATIVE DENSITY (%)
Very Loose	0 to 4	0 to 5	0 to 4	0 to 15
Loose	4 to 10	5 to 15	5 to 12	15 to 35
Medium Dense	10 to 30	15 to 40	12 to 35	35 to 65
Dense	30 to 50	40 to 70	35 to 60	65 to 85
Very Dense	>50	>70	>60	85 to 100

SAMPLER TYPES



SOIL TYPES



ABBREVIATIONS

PL – Plastic Limit
LL – Liquid Limit
WC – Percent Moisture

Q_P – Hand Penetrometer
Q_U – Unconfined Compression Test
UU – Unconsolidated Undrained Triaxial

Note: Plot Indicates Shear Strength as Obtained By Above Tests

WATER SEEPAGE

WATER LEVEL AT END OF DRILLING

CLASSIFICATION OF GRANULAR SOILS

U.S. STANDARD SIEVE SIZE(S)

	6"	3"	3/4"	4	10	40	200	
BOULDERS	COBBLES	GRAVEL		SAND			SILT OR CLAY	CLAY
		COARSE	FINE	COARSE	MEDIUM	FINE		
	152	76.2	19.1	4.76	2.0	0.42	0.074	0.002

APPENDIX C

intertek psi

TABLE 2: SUMMARY OF LABORATORY TEST RESULTS
DORAL CENTRAL PARK
3000 NW 87th AVENUE, DORAL, FLORIDA
PROJECT NO. 0397-1537

					SIEVE ANALYSES, PERCENT PASSING (%)										
BORING NUMBER	SAMPLE DEPTH INTERVAL (FEET)	STRATUM NUMBER	ORGANIC CONTENT (%)	MOISTURE CONTENT (%)	1.5"	1"	3/4"	3/8"	#4	#10	#40	#60	#100	#200	USCS CLASS.
B-01.04	13.5 - 15.0	6	0.7	17.7	100.0	100.0	100.0	100.0	98.0	95.6	89.0	75.8	40.8	1.7	SP
B-01.04	18.5 - 20.0	6	-	12.5	100.0	100.0	100.0	100.0	98.1	93.3	78.8	54.5	20.7	10.2	SP-SM
B-01.06	18.5 - 20.0	6	-	18.3	100.0	100.0	100.0	100.0	100.0	100.0	95.3	76.7	33.6	0.5	SP
B-01.07	18.5 - 20.0	6	1.0	18.0	100.0	100.0	100.0	100.0	100.0	98.8	90.5	66.6	20.5	2.1	SP
B-02.02	0.1 - 2.0	3	0.7	14.0	100.0	100.0	100.0	100.0	95.7	94.2	89.2	75.4	41.7	2.0	SP
B-03.01	0.2 - 2.0	3	-	11.3	100.0	100.0	100.0	100.0	99.8	93.2	86.4	70.1	32.4	2.6	SP
B-03.02	0.2 - 2.0	3	0.6	14.9	-	-	-	-	-	-	-	-	-	-	SP
B-03.05	0.2 - 2.0	3	-	12.2	100.0	100.0	100.0	100.0	98.4	92.8	71.5	57.4	31.8	6.7	SP-SM
B-03.06	0.2 - 2.0	4	-	11.3	100.0	100.0	100.0	100.0	96.8	95.7	79.5	73.1	42.9	5.8	SP-SM
B-03.10	2.0 - 4.0	4	0.6	11.8	100.0	100.0	100.0	100.0	100.0	99.1	88.3	65.7	32.4	4.9	SP
B-07.01	13.5 - 15.0	6	-	19.7	100.0	100.0	100.0	100.0	100.0	99.9	98.6	91.7	54.1	1.4	SP
B-07.02	13.5 - 15.0	6	-	19.6	100.0	100.0	100.0	100.0	98.0	97.3	94.8	86.4	44.7	1.6	SP
B-07.03	13.5 - 15.0	6	-	19.2	100.0	100.0	100.0	100.0	100.0	99.9	98.4	89.9	52.2	1.7	SP
B-08.01	4.0 - 6.0	4	4.1	23.3	100.0	100.0	93.3	87.6	79.2	72.9	60.0	38.3	11.0	3.5	SP
B-08.01	13.5 - 15.0	6	-	16.5	100.0	100.0	83.9	80.9	79.0	76.7	72.1	63.3	31.8	2.0	SP
B-08.02	18.5 - 20.0	6	-	12.8	100.0	100.0	100.0	95.0	88.1	81.9	68.7	51.6	24.3	12.0	SP-SM
B-08.02	23.5 - 25.0	6	-	12.0	100.0	100.0	100.0	97.5	89.3	80.3	65.1	42.5	17.1	5.7	SP-SM
B-11.01	0.2 - 2.0	4	0.6	8.4	-	-	-	-	-	-	-	-	-	-	SP-SM
B-11.02	0.2 - 2.0	4	-	9.3	100.0	100.0	100.0	100.0	96.7	91.9	79.5	68.7	31.8	6.5	SP-SM
B-11.05	4.0 - 6.0	4	0.7	11.1	-	-	-	-	-	-	-	-	-	-	SP-SM
B-11.06	2.0 - 4.0	3	-	10.8	100.0	100.0	100.0	100.0	87.3	85.1	64.2	51.7	25.9	8.2	SP-SM
B-17.03	0.2 - 2.0	3	0.5	12.3	100.0	100.0	100.0	100.0	85.5	81.2	69.4	52.7	29.6	3.2	SP
B-20.04	0.2 - 2.0	3	-	17.9	100.0	100.0	100.0	100.0	88.9	82.9	62.1	51.7	32.8	9.6	SP-SM
B-22.03	0.2 - 2.0	8	3.9	14.7	100.0	100.0	100.0	100.0	90.6	87.3	61.9	46.2	35.8	13.7	SM
B-24.07	0.2 - 2.0	3	0.8	11.1	-	-	-	-	-	-	-	-	-	-	SP-SM
B-24.08	0.5 - 2.0	3	-	13.7	100.0	100.0	100.0	93.8	87.2	84.8	74.2	65.3	28.3	4.6	SP
B-27.01	0.5 - 2.0	4	0.7	19.9	100.0	100.0	100.0	100.0	100.0	92.1	77.8	54.1	25.7	10.5	SP-SM

TABLE 2: SUMMARY OF LABORATORY TEST RESULTS
DORAL CENTRAL PARK
3000 NW 87th AVENUE, DORAL, FLORIDA
PROJECT NO. 0397-1537

					SIEVE ANALYSES, PERCENT PASSING (%)										
BORING NUMBER	SAMPLE DEPTH INTERVAL (FEET)	STRATUM NUMBER	ORGANIC CONTENT (%)	MOISTURE CONTENT (%)	1.5"	1"	3/4"	3/8"	#4	#10	#40	#60	#100	#200	USCS CLASS.
B-29.03	0.2 - 2.0	3	-	11.8	100.0	100.0	100.0	100.0	90.0	85.9	71.5	61.2	35.7	10.9	SP-SM
B-29.13	0.2 - 2.0	3	0.7	9.8	100.0	100.0	100.0	100.0	87.2	83.2	68.7	55.4	24.9	11.6	SP-SM
B-29.15	0.2 - 2.0	4	-	15.8	100.0	100.0	100.0	100.0	90.5	79.6	62.7	51.9	31.6	5.8	SP-SM
B-32.03	0.3 - 2.0	3	-	14.3	100.0	100.0	100.0	100.0	85.1	81.4	62.8	49.3	25.8	8.3	SP-SM
B-34.01	0.2 - 2.0	4	0.5	17.8	100.0	100.0	100.0	98.6	97.8	96.9	92.2	72.7	30.4	4.9	SP
B-34.02	0.2 - 2.0	4	0.7	8.2	100.0	100.0	100.0	100.0	99.9	99.9	96.2	74.9	28.9	4.7	SP
B-36.03	0.5 - 2.0	3	-	8.6	100.0	100.0	100.0	100.0	86.3	78.5	54.7	45.6	26.7	7.9	SP-SM
B-02	0.3 - 2.0	8	-	19.0	-	-	-	-	-	-	-	-	-	16.0	SM

Note: Grain Size Sieve Analyses (AASHTO T-27) include Wash No. 200 Sieve Test (ASTM C117)

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 7/17/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

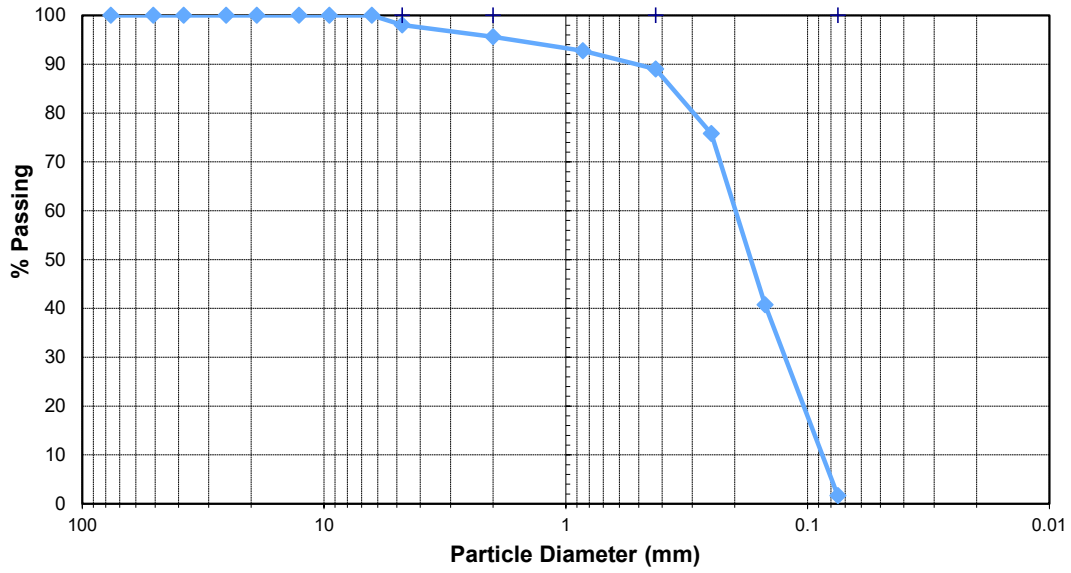
Boring No: B-01.04

Sample Depth: 13.5' - 15.0'

Soil Description: Light Brown Fine to Medium Grained Sand, Occasionally with Limestone and Cemented Sand Fragments (Ft. Thompson Sand Formation)

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	98.0
10	2.000	95.6
20	0.850	92.8
40	0.425	89.0
60	0.250	75.8
100	0.150	40.8
200	0.075	1.7
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	1.96
% Sand:	96.39
% Fines:	1.65

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 7/17/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

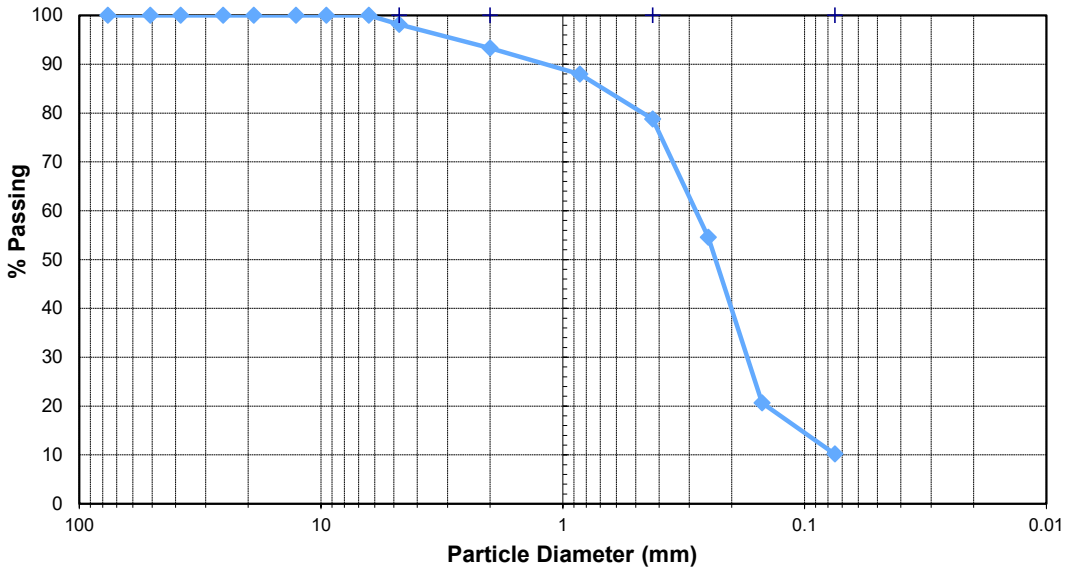
Boring No: B-01.04

Sample Depth: 18.5' - 20.0'

Soil Description: Light Brown Fine to Medium Grained Sand, Occasionally with Limestone and Cemented Sand Fragments (Ft. Thompson Sand Formation)

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	98.1
10	2.000	93.3
20	0.850	87.9
40	0.425	78.8
60	0.250	54.5
100	0.150	20.7
200	0.075	10.2
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	1.88
% Sand:	87.95
% Fines:	10.17

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 7/17/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

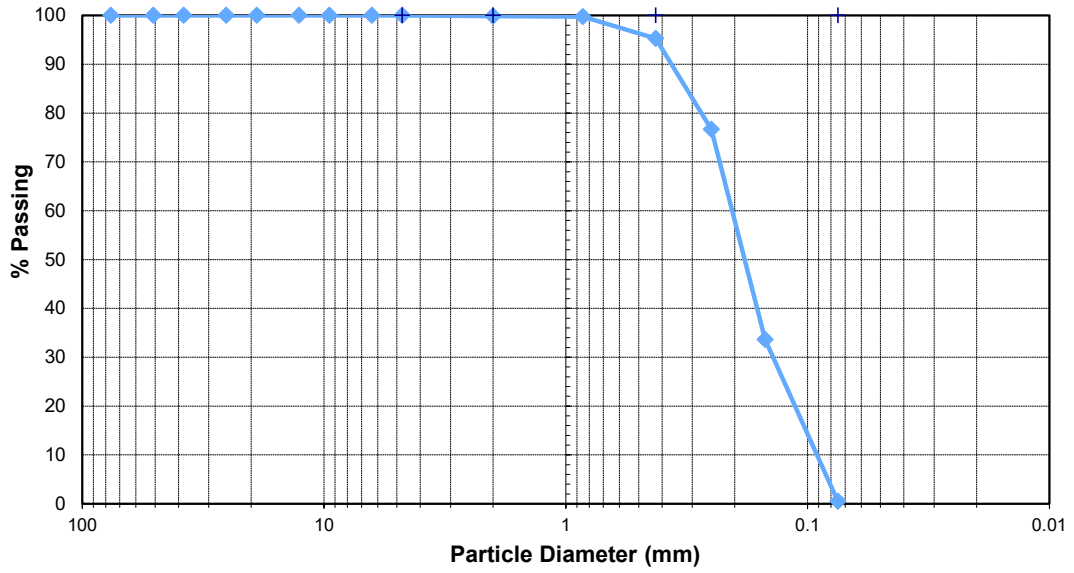
Boring No: B-01.06

Sample Depth: 18.5' - 20.0'

Soil Description: Light Brown Fine to Medium Grained Sand, Occasionally with Limestone and Cemented Sand Fragments (Ft. Thompson Sand Formation)

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	100.0
10	2.000	99.9
20	0.850	99.7
40	0.425	95.3
60	0.250	76.7
100	0.150	33.6
200	0.075	0.5
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	0.00
% Sand:	99.50
% Fines:	0.50

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 7/17/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

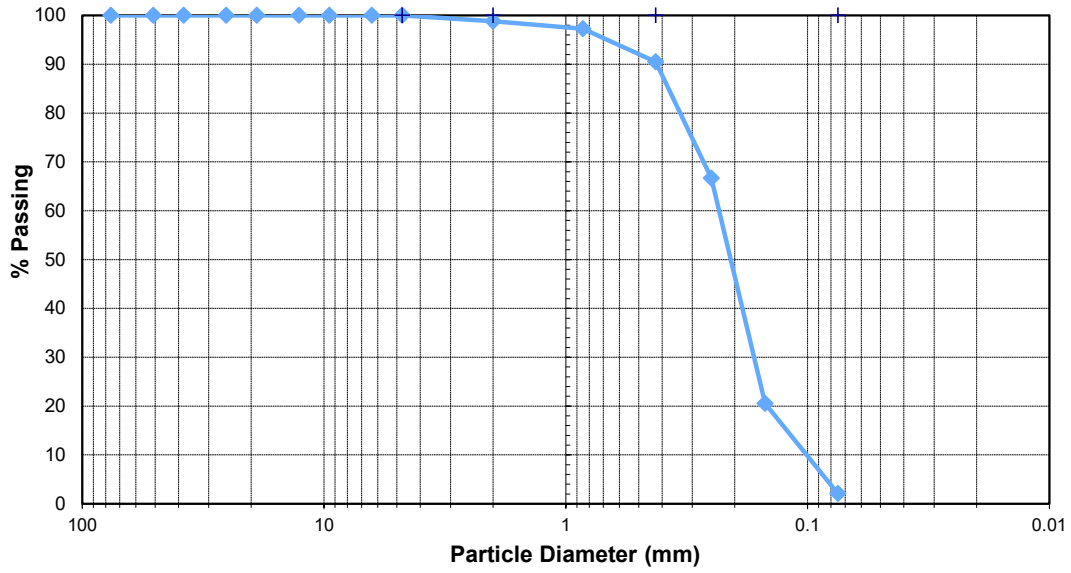
Boring No: B-01.07

Sample Depth: 18.5' - 20.0'

Soil Description: Light Brown Fine to Medium Grained Sand, Occasionally with Limestone and Cemented Sand Fragments (Ft. Thompson Sand Formation)

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	100.0
10	2.000	98.8
20	0.850	97.3
40	0.425	90.5
60	0.250	66.6
100	0.150	20.5
200	0.075	2.1
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	0.00
% Sand:	97.91
% Fines:	2.09

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

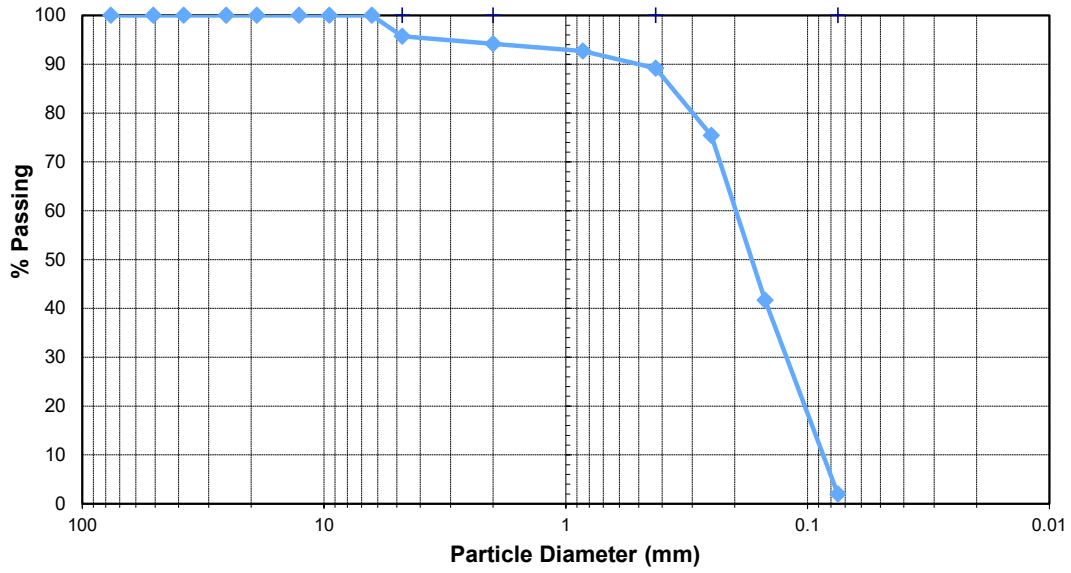
Boring No: B-02.02

Sample Depth: 0.1' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand with Limerock - Fill

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	95.7
10	2.000	94.2
20	0.850	92.7
40	0.425	89.2
60	0.250	75.4
100	0.150	41.7
200	0.075	2.0
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	4.26
% Sand:	93.77
% Fines:	1.97

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

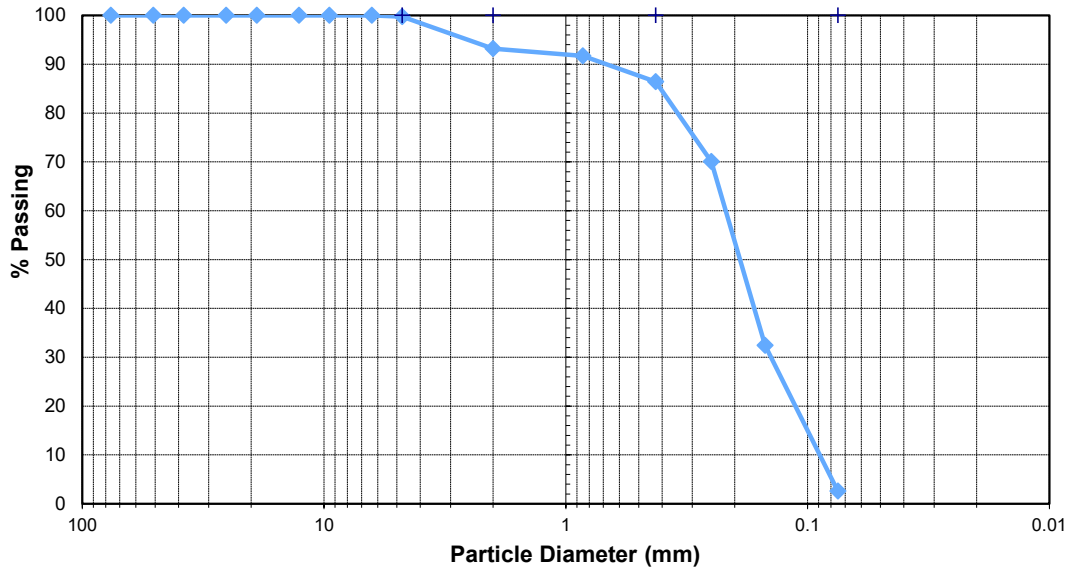
Boring No: B-03.01

Sample Depth: 0.2' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand with Limerock - Fill

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	99.8
10	2.000	93.2
20	0.850	91.7
40	0.425	86.4
60	0.250	70.1
100	0.150	32.4
200	0.075	2.6
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	0.23
% Sand:	97.19
% Fines:	2.58

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

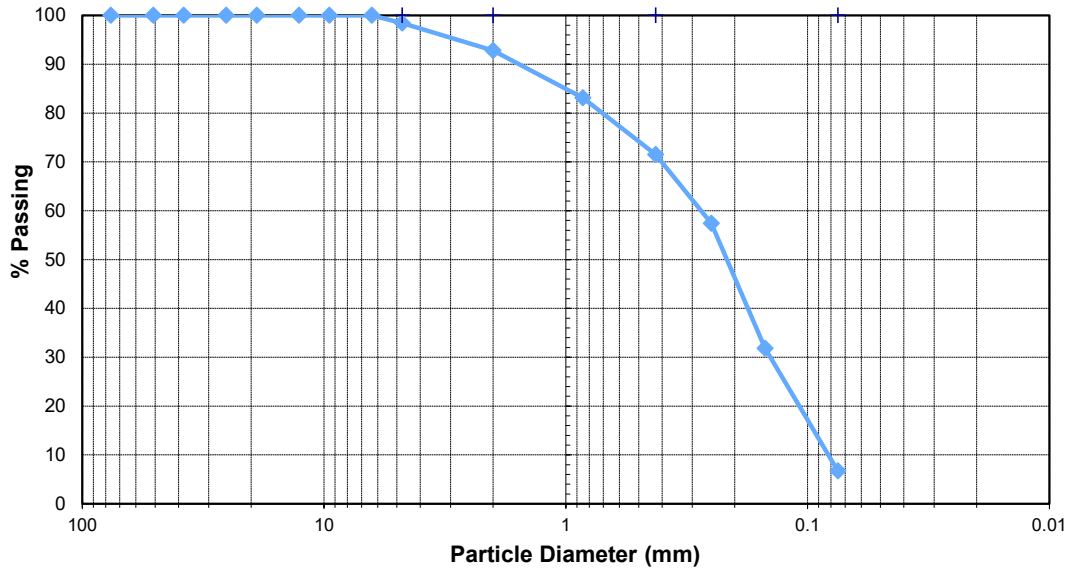
Boring No: B-03.05

Sample Depth: 0.2' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand with Limerock - Fill

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	98.4
10	2.000	92.8
20	0.850	83.1
40	0.425	71.5
60	0.250	57.4
100	0.150	31.8
200	0.075	6.7
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	1.57
% Sand:	91.70
% Fines:	6.73

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

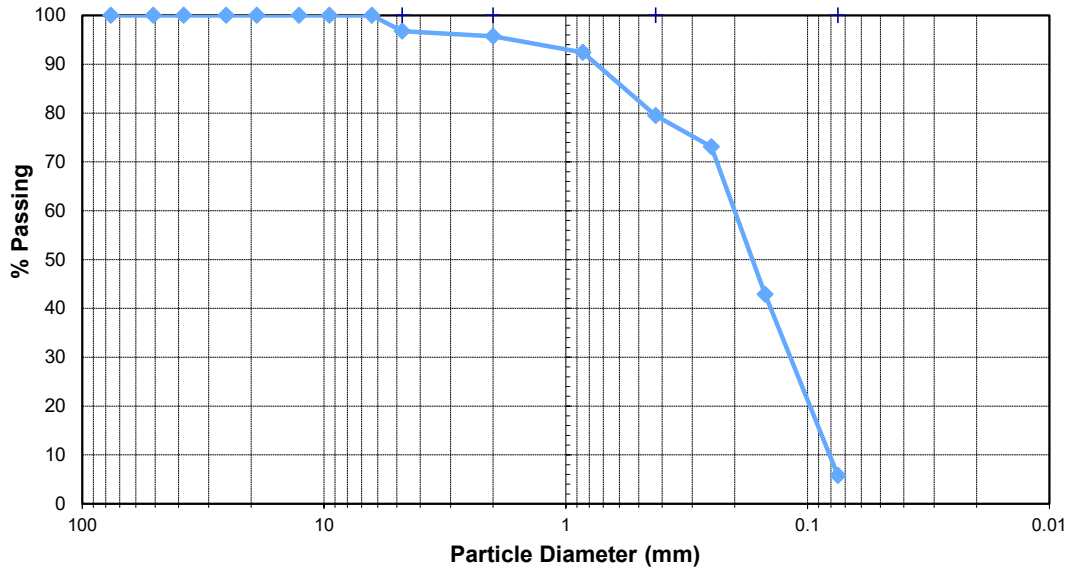
Boring No: B-03.06

Sample Depth: 0.2' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand (Pamlico Formation)

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	96.8
10	2.000	95.7
20	0.850	92.4
40	0.425	79.5
60	0.250	73.1
100	0.150	42.9
200	0.075	5.8
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	3.22
% Sand:	90.97
% Fines:	5.81

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

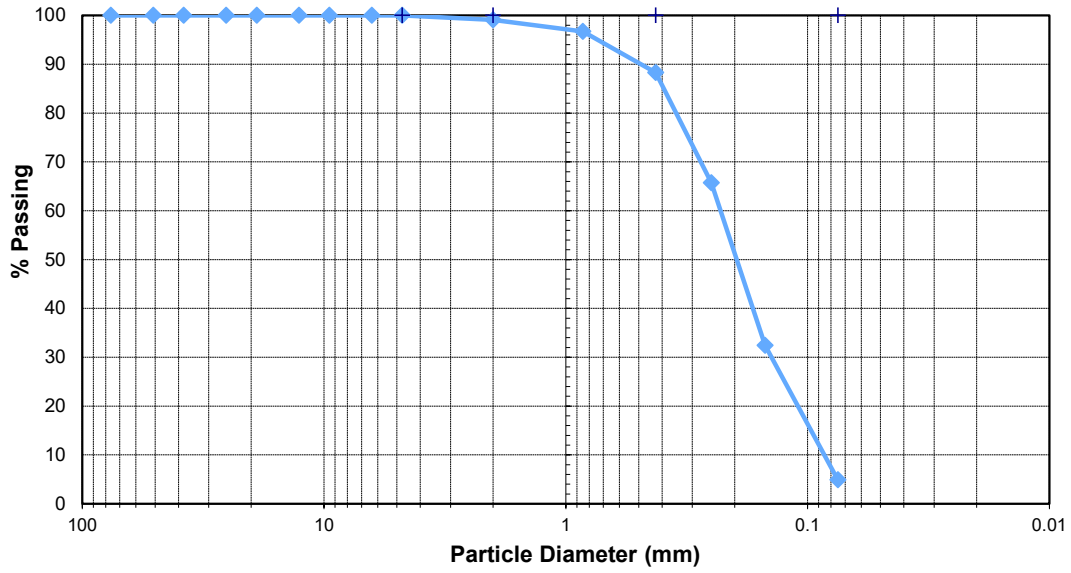
Boring No: B-03.10

Sample Depth: 2.0' - 4.0'

Soil Description: Brown Fine to Medium Grained Sand (Pamlico Formation)

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	100.0
10	2.000	99.1
20	0.850	96.7
40	0.425	88.3
60	0.250	65.7
100	0.150	32.4
200	0.075	4.9
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	0.00
% Sand:	95.12
% Fines:	4.88

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 7/17/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

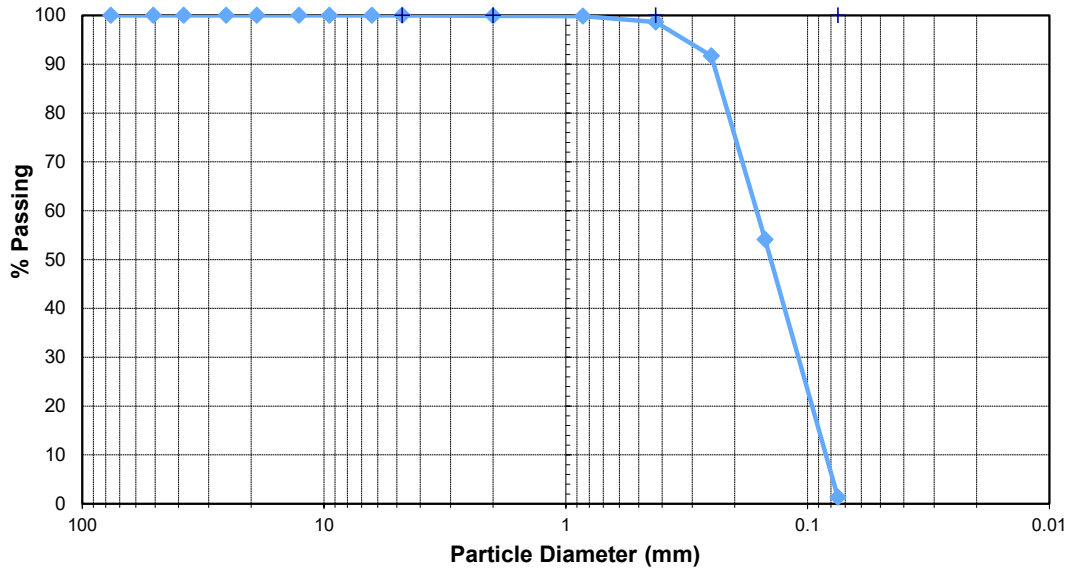
Boring No: B-07.01

Sample Depth: 13.5' - 15.0'

Soil Description: Light Brown Fine to Medium Grained Sand, Occasionally with Limestone and Cemented Sand Fragments (Ft. Thompson Sand Formation)

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	100.0
10	2.000	99.9
20	0.850	99.9
40	0.425	98.6
60	0.250	91.7
100	0.150	54.1
200	0.075	1.4
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	0.00
% Sand:	98.65
% Fines:	1.35

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 7/17/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

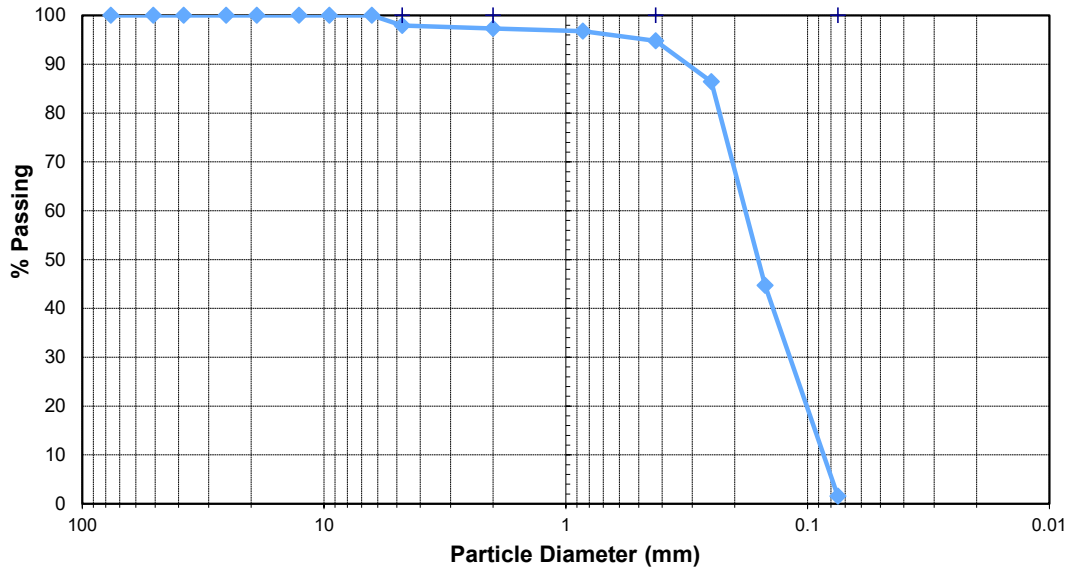
Boring No: B-07.02

Sample Depth: 13.5' - 15.0'

Soil Description: Light Brown Fine to Medium Grained Sand, Occasionally with Limestone and Cemented Sand Fragments (Ft. Thompson Sand Formation)

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	98.0
10	2.000	97.3
20	0.850	96.8
40	0.425	94.8
60	0.250	86.4
100	0.150	44.7
200	0.075	1.6
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	2.05
% Sand:	96.39
% Fines:	1.56

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 7/17/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

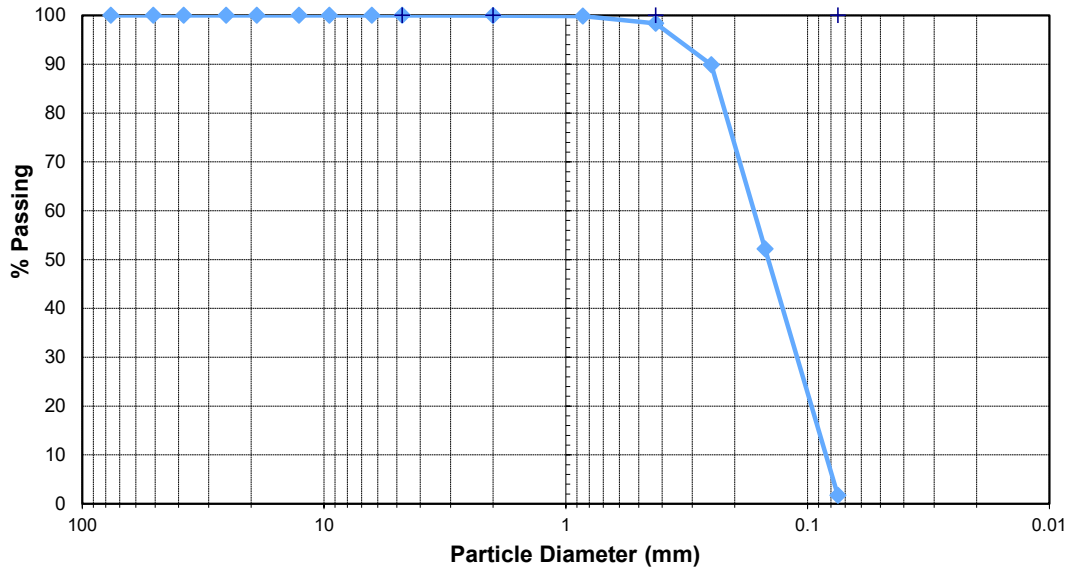
Boring No: B-07.03

Sample Depth: 13.5' - 15.0'

Soil Description: Light Brown Fine to Medium Grained Sand, Occasionally with Limestone and Cemented Sand Fragments (Ft. Thompson Sand Formation)

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	100.0
10	2.000	99.9
20	0.850	99.9
40	0.425	98.4
60	0.250	89.9
100	0.150	52.2
200	0.075	1.7
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	0.00
% Sand:	98.27
% Fines:	1.73

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 7/17/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

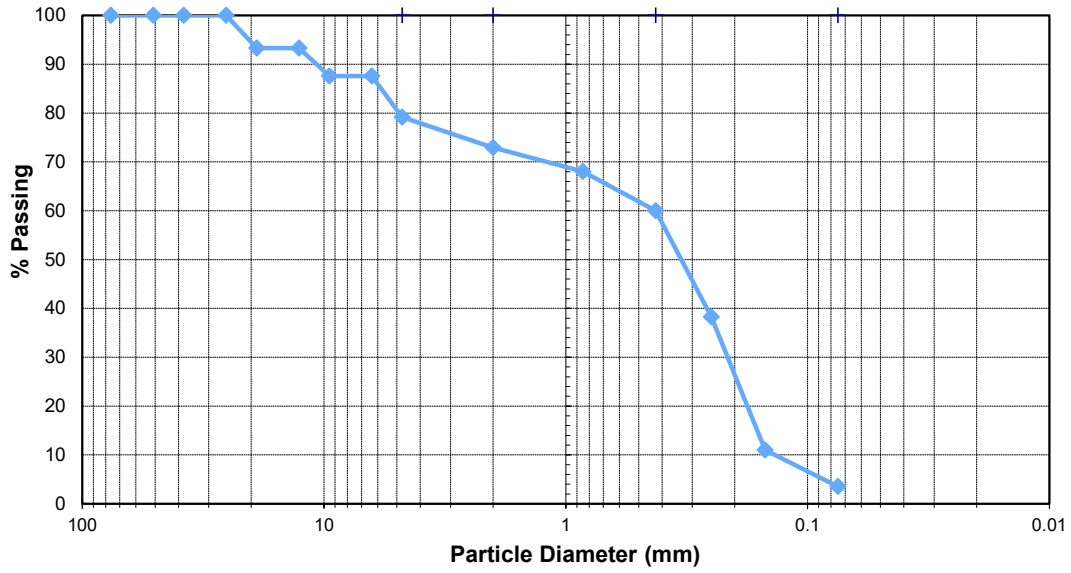
Boring No: B-08.01

Sample Depth: 4.0' - 6.0'

Soil Description: Brown Fine to Medium Grained Sand (Pamlico Formation)

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	93.3
1/2 in.	12.7	93.3
3/8 in.	9.51	87.6
1/4 in.	6.35	87.6
4	4.750	79.2
10	2.000	72.9
20	0.850	68.0
40	0.425	60.0
60	0.250	38.3
100	0.150	11.0
200	0.075	3.5
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	20.82
% Sand:	75.65
% Fines:	3.53

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 7/17/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

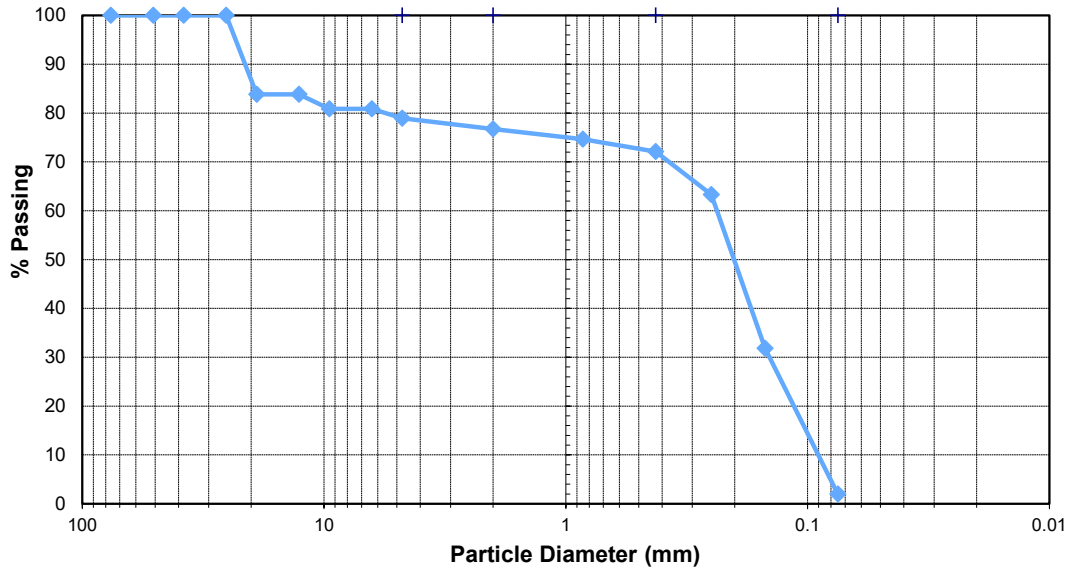
Boring No: B-08.01

Sample Depth: 13.5' - 15.0'

Soil Description: Light Brown Fine to Medium Grained Sand, Occasionally with Limestone and Cemented Sand Fragments (Ft. Thompson Sand Formation)

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	83.9
1/2 in.	12.7	83.9
3/8 in.	9.51	80.9
1/4 in.	6.35	80.9
4	4.750	79.0
10	2.000	76.7
20	0.850	74.6
40	0.425	72.1
60	0.250	63.3
100	0.150	31.8
200	0.075	2.0
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	21.05
% Sand:	76.98
% Fines:	1.97

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 7/17/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

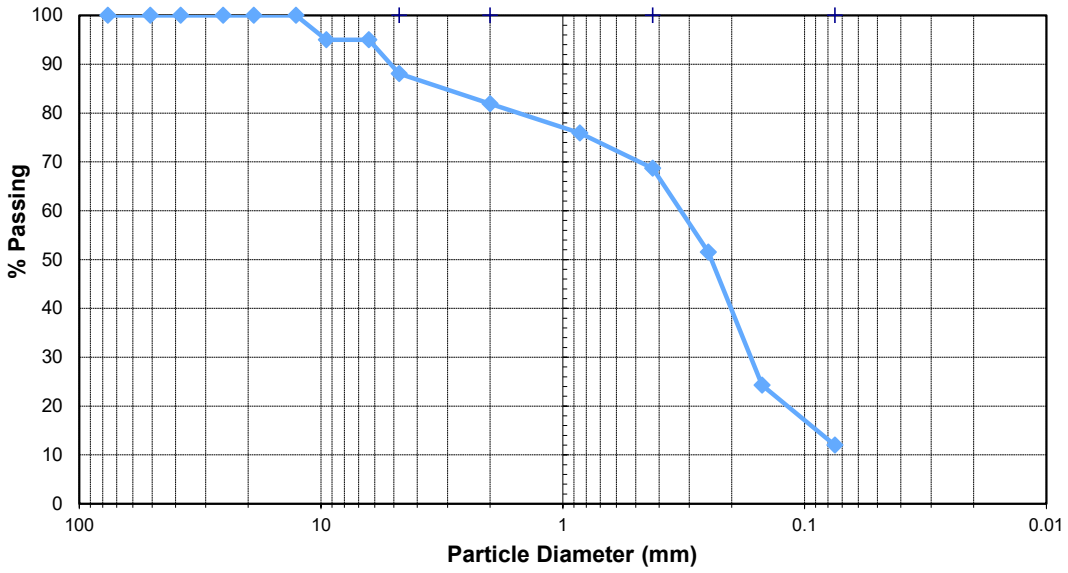
Boring No: B-08.02

Sample Depth: 18.5' - 20.0'

Soil Description: Light Brown Fine to Medium Grained Sand, Occasionally with Limestone and Cemented Sand Fragments (Ft. Thompson Sand Formation)

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	95.0
1/4 in.	6.35	95.0
4	4.750	88.1
10	2.000	81.9
20	0.850	75.9
40	0.425	68.7
60	0.250	51.6
100	0.150	24.3
200	0.075	12.0
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	11.93
% Sand:	76.07
% Fines:	12.00

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

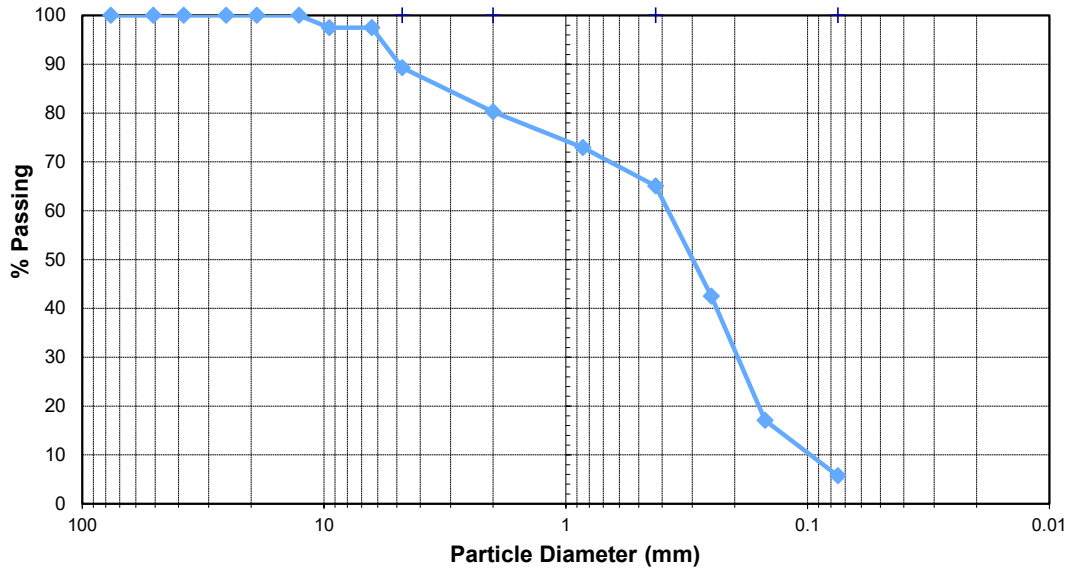
Grain Size Distribution Report

Project Name:	DORAL CENTRAL PARK	**Tested By:**	AVL	**Date:**	7/17/2020
Location:	3000 NW 87th Avenue, Doral, FL	**Checked By:**	JNG		
Boring No:	B-08.02				
Sample Depth:	23.5' - 25.0'				

Soil Description: Light Brown Fine to Medium Grained Sand, Occasionally with Limestone and Cemented Sand Fragments (Ft. Thompson Sand Formation)

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	97.5
1/4 in.	6.35	97.5
4	4.750	89.3
10	2.000	80.3
20	0.850	73.0
40	0.425	65.1
60	0.250	42.5
100	0.150	17.1
200	0.075	5.7
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	10.69
% Sand:	83.59
% Fines:	5.72

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

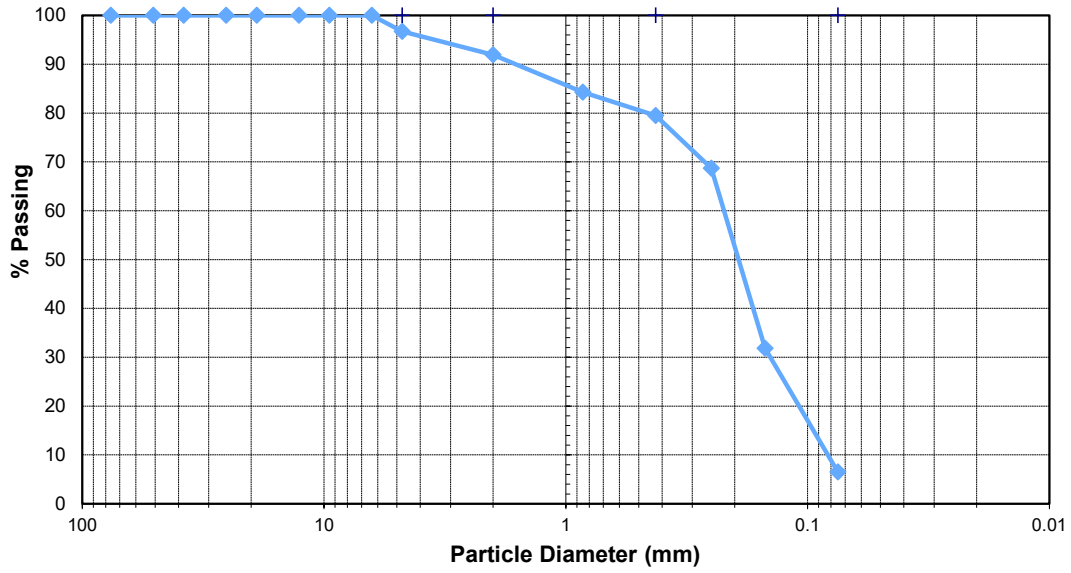
Boring No: B-11.02

Sample Depth: 0.2' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand (Pamlico Formation)

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	96.7
10	2.000	91.9
20	0.850	84.3
40	0.425	79.5
60	0.250	68.7
100	0.150	31.8
200	0.075	6.5
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	3.26
% Sand:	90.22
% Fines:	6.52

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

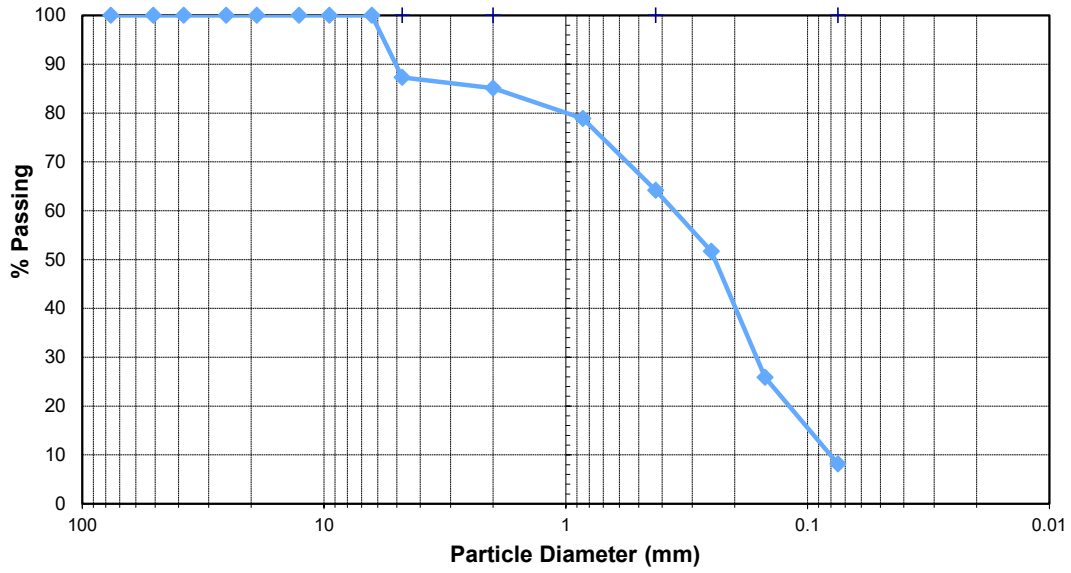
Boring No: B-11.06

Sample Depth: 2.0' - 4.0'

Soil Description: Brown Fine to Medium Grained Sand with Limerock - Fill

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	87.3
10	2.000	85.1
20	0.850	78.9
40	0.425	64.2
60	0.250	51.7
100	0.150	25.9
200	0.075	8.2
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	12.71
% Sand:	79.11
% Fines:	8.18

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

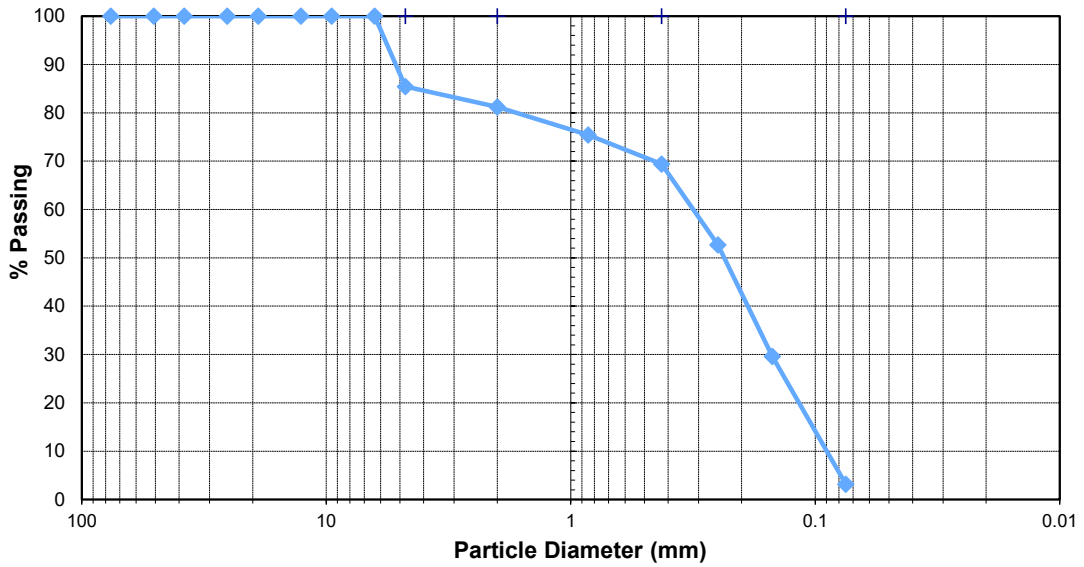
Boring No: B-17.03

Sample Depth: 0.2' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand with Limerock - Fill

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	85.5
10	2.000	81.2
20	0.850	75.4
40	0.425	69.4
60	0.250	52.7
100	0.150	29.6
200	0.075	3.2
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	14.53
% Sand:	82.32
% Fines:	3.15

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

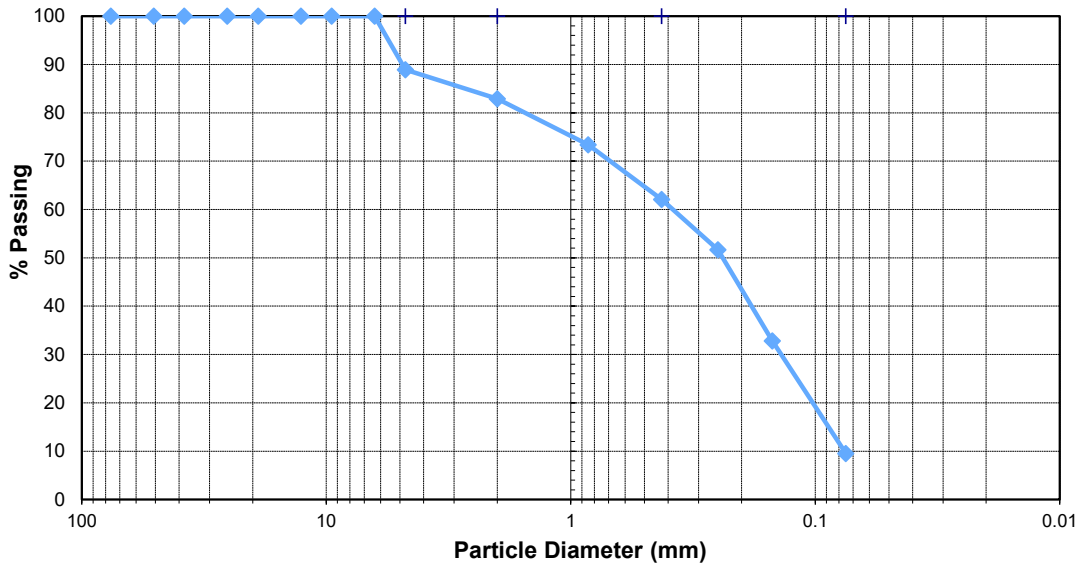
Boring No: B-20.04

Sample Depth: 0.2' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand with Limerock - Fill

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	88.9
10	2.000	82.9
20	0.850	73.4
40	0.425	62.1
60	0.250	51.7
100	0.150	32.8
200	0.075	9.6
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	11.07
% Sand:	79.38
% Fines:	9.55

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

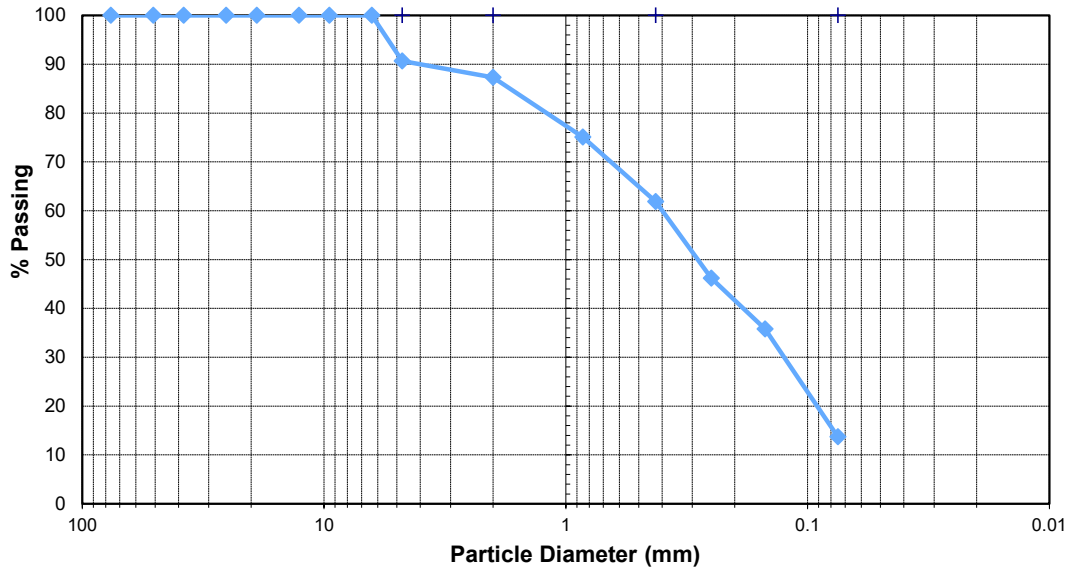
Boring No: B-22.03

Sample Depth: 0.2' - 2.0'

Soil Description: Light Brown to Brown Silty Sand with Limerock

USCS Symbol: SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	90.6
10	2.000	87.3
20	0.850	75.1
40	0.425	61.9
60	0.250	46.2
100	0.150	35.8
200	0.075	13.7
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	9.36
% Sand:	76.93
% Fines:	13.71

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

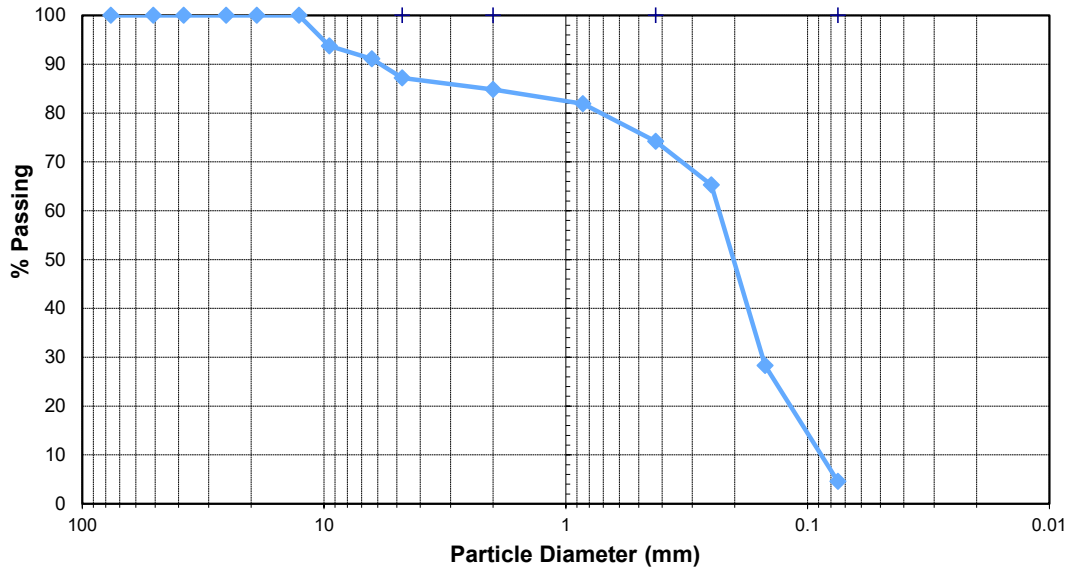
Boring No: B-24.08

Sample Depth: 0.5' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand with Limerock - Fill

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	93.8
1/4 in.	6.35	91.1
4	4.750	87.2
10	2.000	84.8
20	0.850	81.9
40	0.425	74.2
60	0.250	65.3
100	0.150	28.3
200	0.075	4.6
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	12.80
% Sand:	82.63
% Fines:	4.57

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

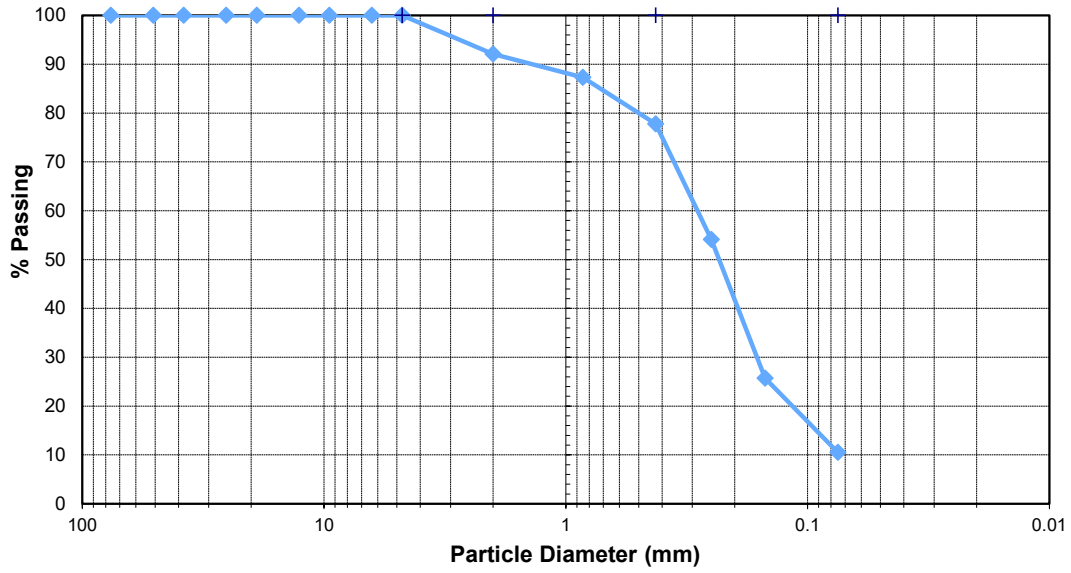
Boring No: B-27.01

Sample Depth: 0.5' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand (Pamlico Formation)

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	100.0
10	2.000	92.1
20	0.850	87.3
40	0.425	77.8
60	0.250	54.1
100	0.150	25.7
200	0.075	10.5
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	0.00
% Sand:	89.49
% Fines:	10.51

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

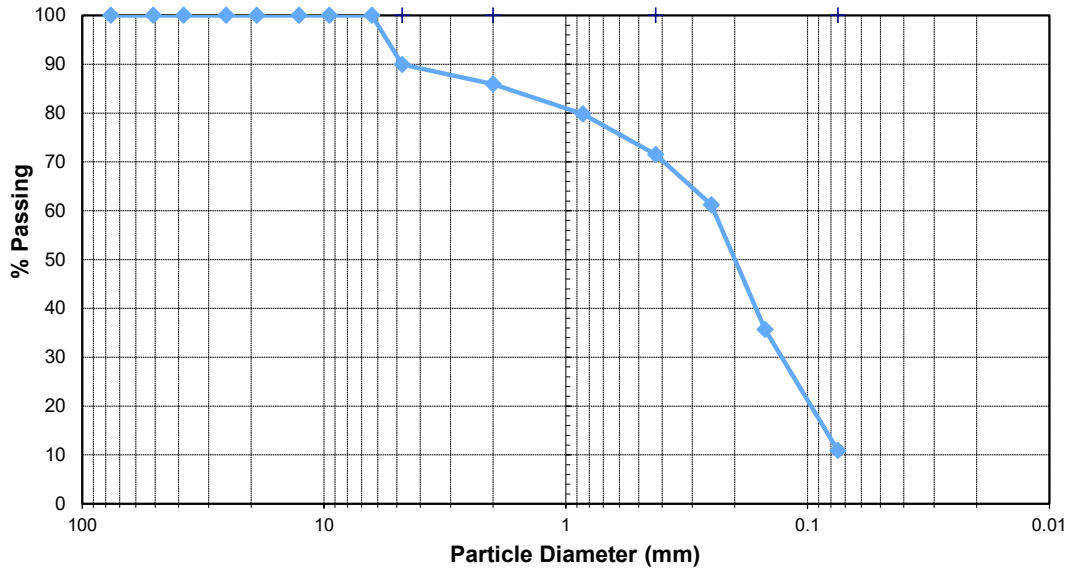
Boring No: B-29.03

Sample Depth: 0.2' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand with Limerock - Fill

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	90.0
10	2.000	85.9
20	0.850	79.8
40	0.425	71.5
60	0.250	61.2
100	0.150	35.7
200	0.075	10.9
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	10.03
% Sand:	79.06
% Fines:	10.91

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

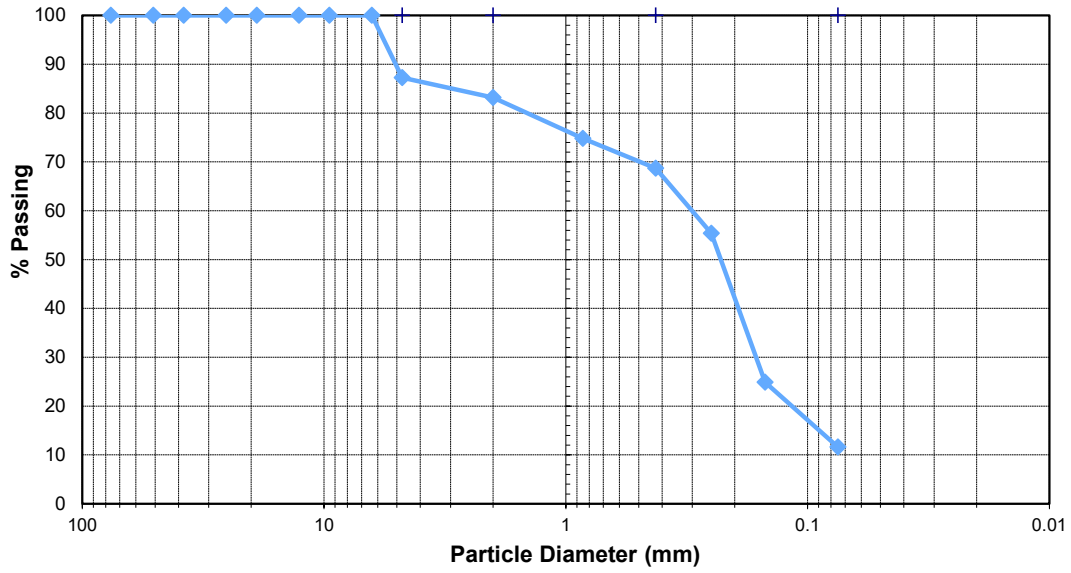
Boring No: B-29.13

Sample Depth: 0.2' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand with Limerock - Fill

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	87.2
10	2.000	83.2
20	0.850	74.8
40	0.425	68.7
60	0.250	55.4
100	0.150	24.9
200	0.075	11.6
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	12.76
% Sand:	75.61
% Fines:	11.63

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

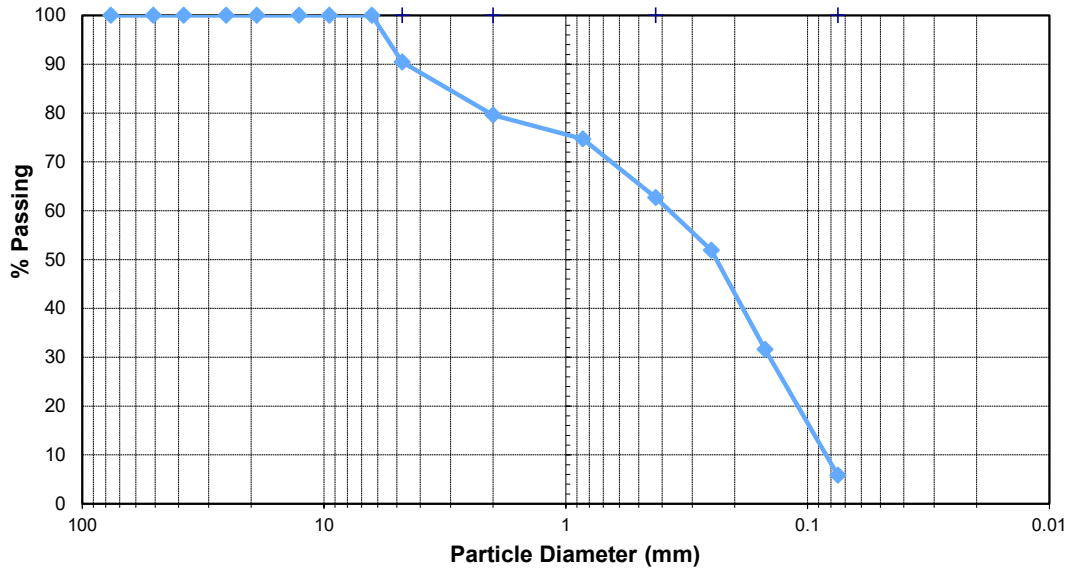
Boring No: B-29.15

Sample Depth: 0.2' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand (Pamlico Formation)

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	90.5
10	2.000	79.6
20	0.850	74.7
40	0.425	62.7
60	0.250	51.9
100	0.150	31.6
200	0.075	5.8
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	9.54
% Sand:	84.64
% Fines:	5.82

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

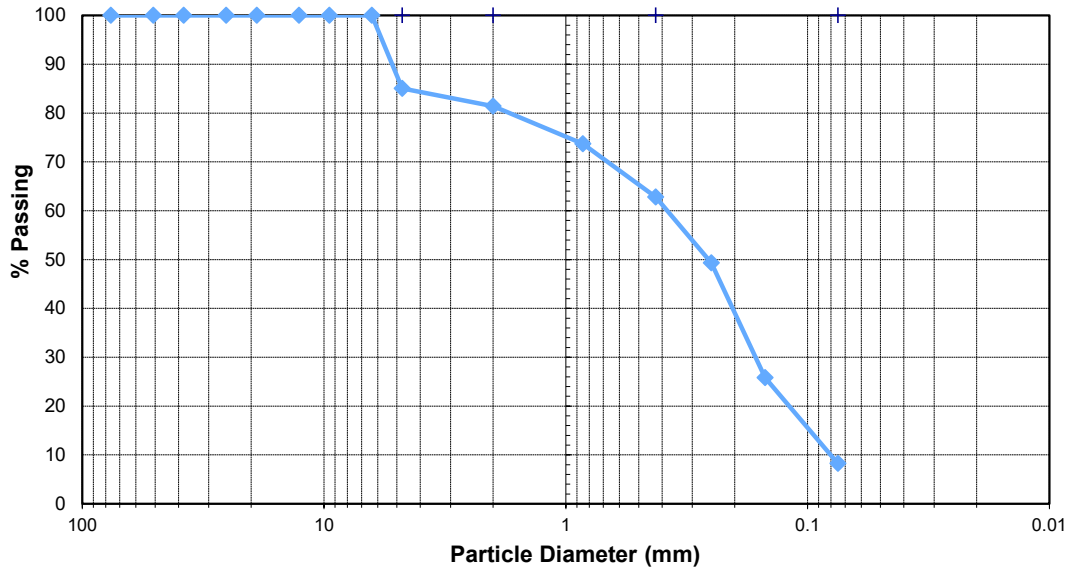
Boring No: B-32.03

Sample Depth: 0.3' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand with Limerock - Fill

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	85.1
10	2.000	81.4
20	0.850	73.7
40	0.425	62.8
60	0.250	49.3
100	0.150	25.8
200	0.075	8.3
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	14.93
% Sand:	76.81
% Fines:	8.26

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 7/17/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

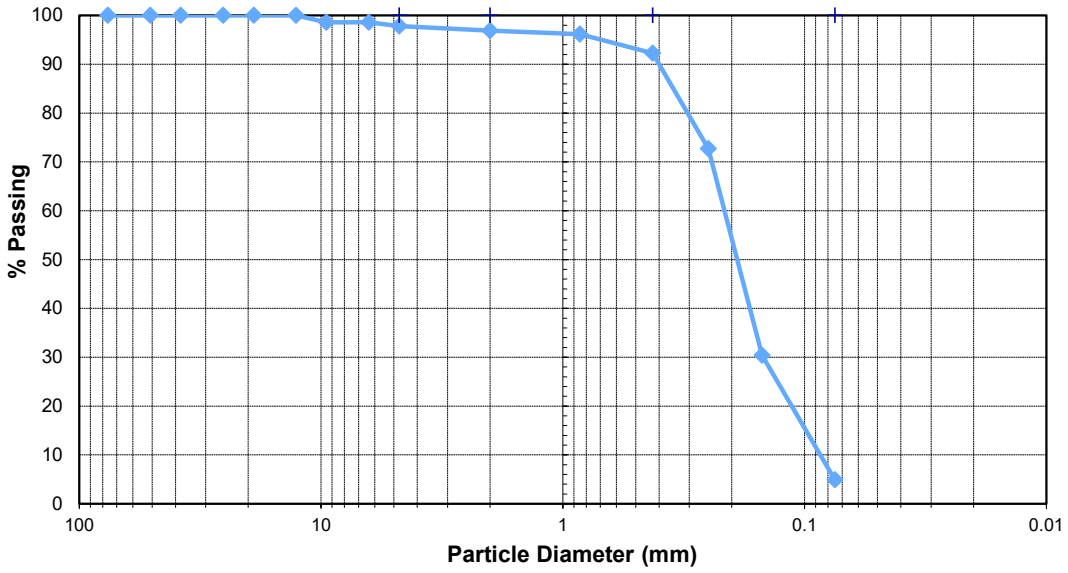
Boring No: B-34.01

Sample Depth: 0.2' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand (Pamlico Formation)

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	98.6
1/4 in.	6.35	98.6
4	4.750	97.8
10	2.000	96.9
20	0.850	96.2
40	0.425	92.2
60	0.250	72.7
100	0.150	30.4
200	0.075	4.9
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	2.19
% Sand:	92.91
% Fines:	4.90

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 7/17/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

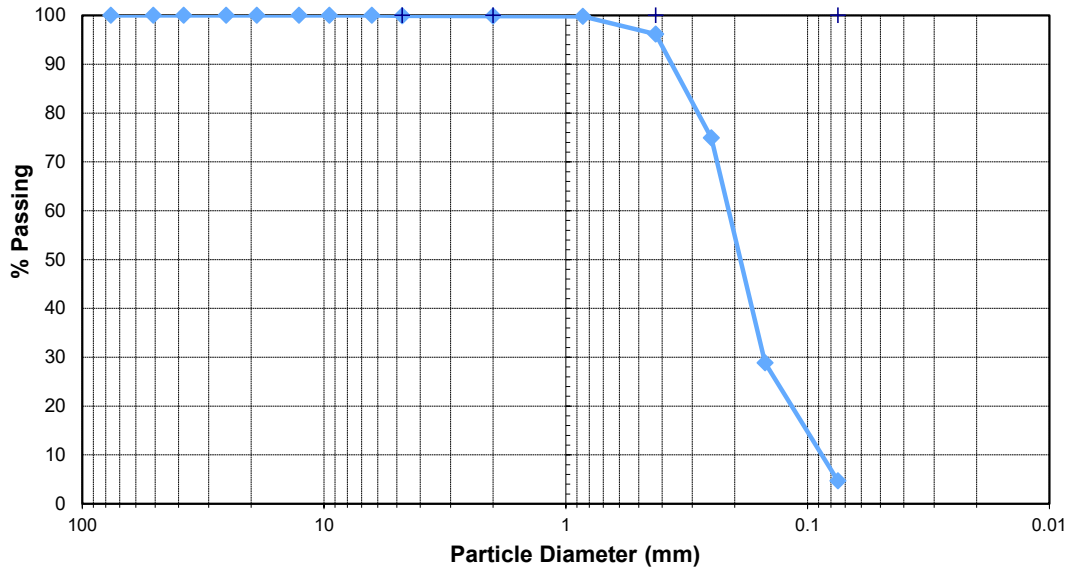
Boring No: B-34.02

Sample Depth: 0.2' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand (Pamlico Formation)

USCS Symbol: SP

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	99.9
10	2.000	99.9
20	0.850	99.8
40	0.425	96.2
60	0.250	74.9
100	0.150	28.9
200	0.075	4.7
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	0.07
% Sand:	95.24
% Fines:	4.69

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

Grain Size Distribution Report

Project Name: DORAL CENTRAL PARK **Tested By:** AVL **Date:** 8/13/2020

Location: 3000 NW 87th Avenue, Doral, FL **Checked By:** JNG

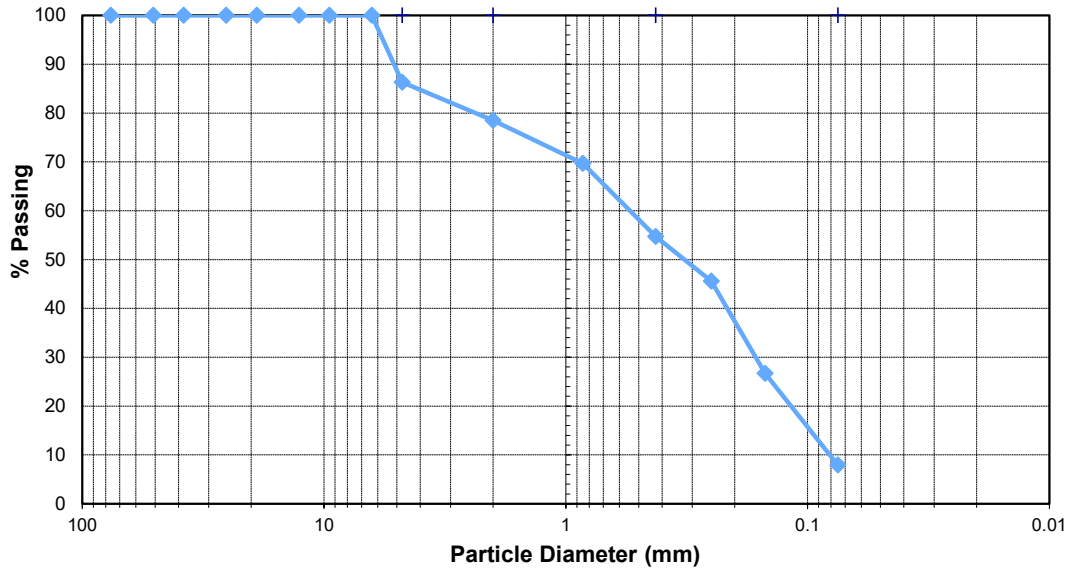
Boring No: B-36.03

Sample Depth: 0.5' - 2.0'

Soil Description: Brown Fine to Medium Grained Sand with Limerock - Fill

USCS Symbol: SP-SM

Sieve Number	Particle Diameter (mm)	Soil Passing (%)
4 in.	101.6	100.0
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	100.0
3/8 in.	9.51	100.0
1/4 in.	6.35	100.0
4	4.750	86.3
10	2.000	78.5
20	0.850	69.7
40	0.425	54.7
60	0.250	45.6
100	0.150	26.7
200	0.075	7.9
Pan		-



Grain Size Distribution Curve Results:

% Gravel:	13.67
% Sand:	78.42
% Fines:	7.91

Atterberg Limits Results:

LL (%)	N/A
PL (%)	N/A
PI (%)	N/A

TABLE 3: SUMMARY OF CORROSION SERIES TEST RESULTS
DORAL CENTRAL PARK
3000 NW 87th AVENUE, DORAL, FLORIDA
PSI PROJECT NO. 0397-1537

SAMPLE/BORING LOCATION	DEPTH INTERVAL (ft.)	SAMPLE MATRIX	pH	CHLORIDES (ppm)	SULFATES (ppm)	RESISTIVITY (ohm-cm)	ENVIRONMENTAL CLASSIFICATION	
							STEEL	CONCRETE
B-01.04	2 - 6	Soil	6.8	60	142	17000	MA	SA
B-07.03	2 - 6	Soil	7.8	60	119	11000	SA	SA
B-10.01	2 - 6	Soil	7.2	60	158	14000	SA	SA
B-28.01	2 - 6	Soil	8.1	60	170	10000	SA	SA

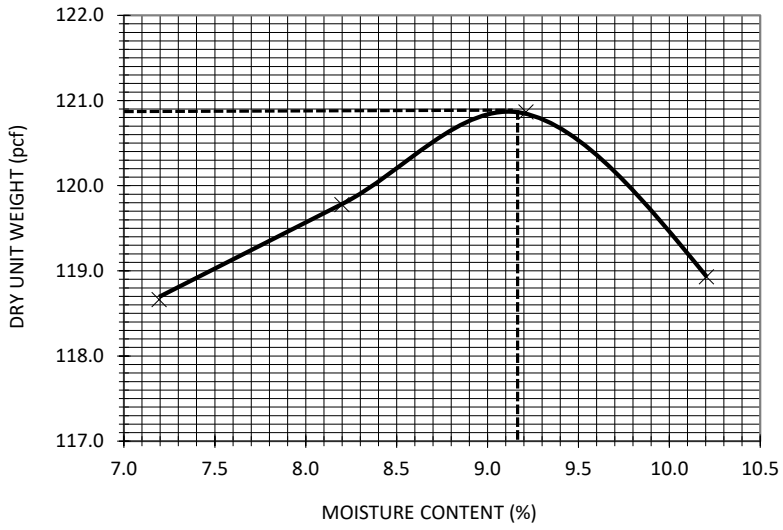
NOTES:
- SA: Slightly Aggressive
- MA: Moderately Aggressive

Table 1.3.2-1 - SDG Criteria for Substructures Environmental Classifications

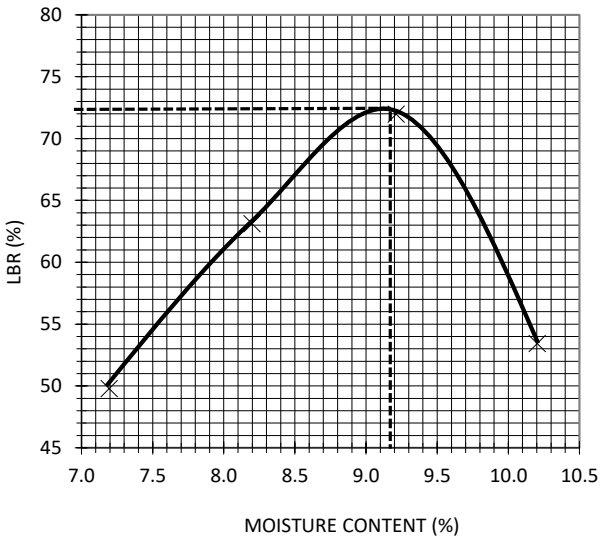
Classification	Environmental Condition	Units	Steel		Concrete	
			Water	Soil	Water	Soil
Extremely Aggressive (If any of these conditions exist)	pH		< 6.0		< 5.0	
	Cl	ppm	> 2000		> 2000	
	SO_4	ppm	N.A.		> 1500	> 2000
	Resistivity	Ohm-cm	< 1000		< 500	
Slightly Aggressive (If all of these conditions exist)	pH		> 7.0		> 6.0	
	Cl	ppm	< 500		< 500	
	SO_4	ppm	N.A.		< 150	< 1000
	Resistivity	Ohm-cm	> 5000		> 3000	
Moderately Aggressive	This classification must be used at all sites not meeting requirements for either slightly aggressive or extremely aggressive environments.					
pH = acidity ($-\log_{10}H^+$; potential of Hydrogen), Cl = chloride content, SO_4 = Sulfate content.						

PROCTOR AND LIMEROCK BEARING RATIO (LBR) TEST REPORT
DORAL CENTRAL PARK
3000 NW 87th AVENUE, DORAL, FLORIDA
PSI PROJECT NO. 0397-1537

DRY DENSITY - MOISTURE CONTENT RELATIONSHIP



LBR - MOISTURE CONTENT RELATIONSHIP



Sample Details

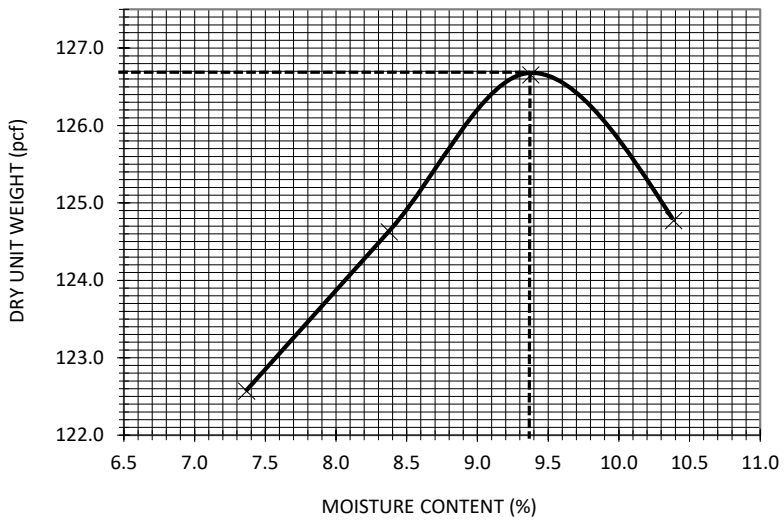
Sample ID	Approximate Sample Location	Material Description	General Location/Source	Sampling Method
LBR-1	Proposed Parking/Pavement NW Area	Sand with Limerock	Existing Site/Existing Fill Soils	AASHTO T 2

Test Results

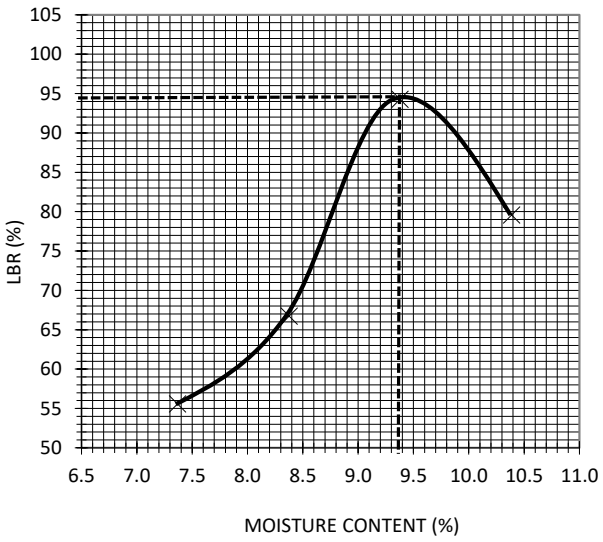
Sample ID	Maximum Dry Density (pcf)	Optimum Moisture (%)	Max. LBR (%)	Test Method	Material Description	USCS Class.
LBR-1	120.9	9.2	72	AASHTO T-180 (Proctor) & FM 5-515 (LBR)	Sand with Limerock	SP/SP-SM

PROCTOR AND LIMEROCK BEARING RATIO (LBR) TEST REPORT
DORAL CENTRAL PARK
3000 NW 87th AVENUE, DORAL, FLORIDA
PSI PROJECT NO. 0397-1537

DRY DENSITY - MOISTURE CONTENT RELATIONSHIP



LBR - MOISTURE CONTENT RELATIONSHIP



Sample Details

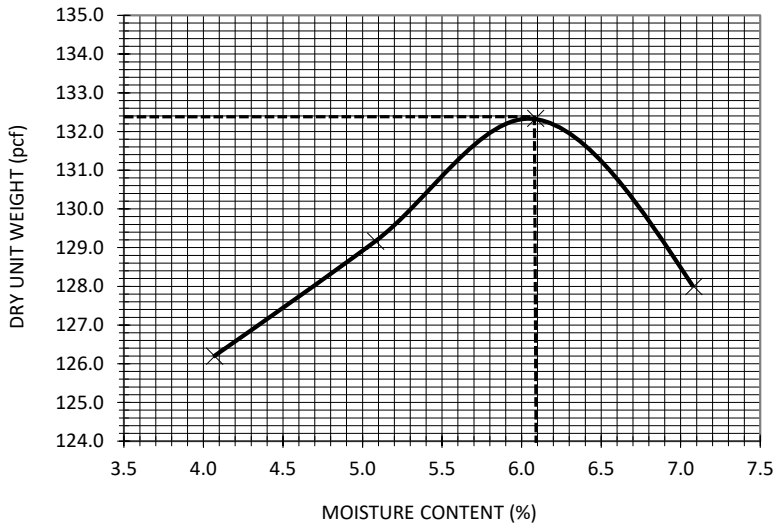
Sample ID	Approximate Sample Location	Material Description	General Location/Source	Sampling Method
LBR-2	Proposed Parking/Pavement West Side/Entrance	Sand with Limerock	Existing Site/Existing Fill Soils	AASHTO T 2

Test Results

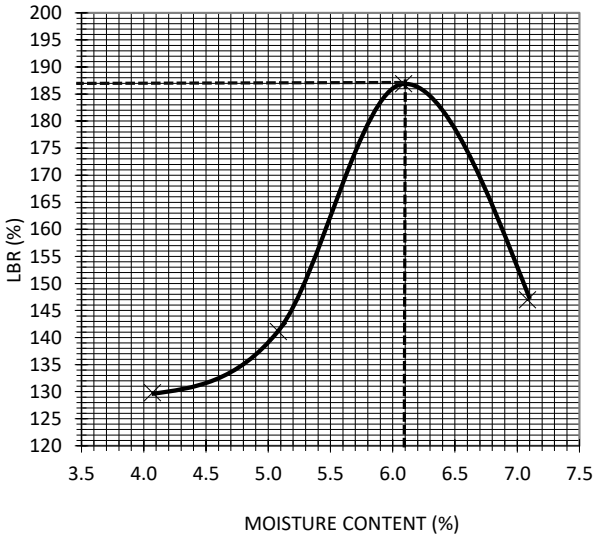
Sample ID	Maximum Dry Density (pcf)	Optimum Moisture (%)	Max. LBR (%)	Test Method	Material Description	USCS Class.
LBR-2	9.4	126.7	94	AASHTO T-180 (Proctor) & FM 5-515 (LBR)	Sand with Limerock	SP/SP-SM

PROCTOR AND LIMEROCK BEARING RATIO (LBR) TEST REPORT
DORAL CENTRAL PARK
3000 NW 87th AVENUE, DORAL, FLORIDA
PSI PROJECT NO. 0397-1537

DRY DENSITY - MOISTURE CONTENT RELATIONSHIP



LBR - MOISTURE CONTENT RELATIONSHIP



Sample Details

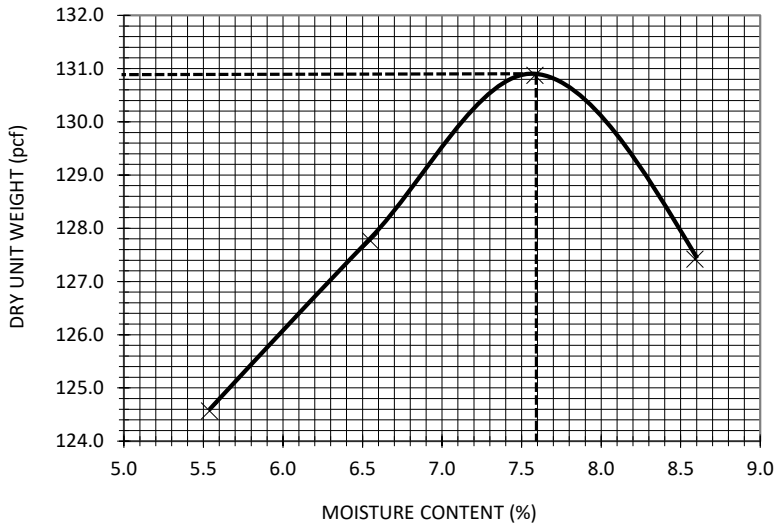
Sample ID	Approximate Sample Location	Material Description	General Location/Source	Sampling Method
LBR-3	Proposed Parking/Pavement North Side Driveway/Parking	Sand with Limerock	Existing Site/Existing Fill Soils	AASHTO T 2

Test Results

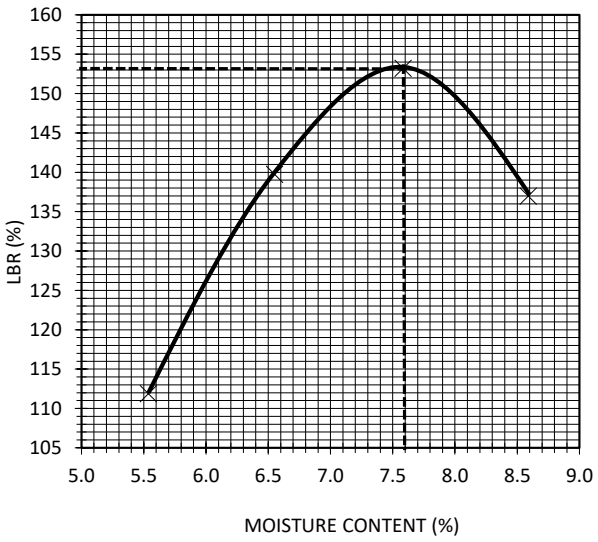
Sample ID	Maximum Dry Density (pcf)	Optimum Moisture (%)	Max. LBR (%)	Test Method	Material Description	USCS Class.
LBR-3	132.4	6.1	187	AASHTO T-180 (Proctor) & FM 5-515 (LBR)	Sand with Limerock	SP/SP-SM

PROCTOR AND LIMEROCK BEARING RATIO (LBR) TEST REPORT
DORAL CENTRAL PARK
3000 NW 87th AVENUE, DORAL, FLORIDA
PSI PROJECT NO. 0397-1537

DRY DENSITY - MOISTURE CONTENT RELATIONSHIP



LBR - MOISTURE CONTENT RELATIONSHIP



Sample Details

Sample ID	Approximate Sample Location	Material Description	General Location/Source	Sampling Method
LBR-4	Proposed Parking/Pavement SE Side/Entrance	Sand with Limerock	Existing Site/Existing Fill Soils	AASHTO T 2

Test Results

Sample ID	Maximum Dry Density (pcf)	Optimum Moisture (%)	Max. LBR (%)	Test Method	Material Description	USCS Class.
LBR-4	130.9	7.6	153	AASHTO T-180 (Proctor) & FM 5-515 (LBR)	Sand with Limerock	SP/SP-SM

APPENDIX D

TABLE 4: SUMMARY OF PERCOLATION TEST RESULTS
DORAL CENTRAL PARK
3000 NW 87TH AVENUE
CITY OF DORAL, FLORIDA
PSI PROJECT No.: 0397-1537

TEST/ BORING NO.	DATE PERFORMED (m/d/year)	BOREHOLE DIAMETER (inches)	PERFORATED PVC DIAMETER (inches)	DEPTH OF HOLE (feet)	DEPTH TO GROUNDWATER LEVEL BELOW GROUND SURFACE (feet)		HYDRAULIC HEAD H_2 (feet)	SATURATED HOLE DEPTH, D_S (feet)	AVERAGE FLOW RATE, Q (gpm)	HYDRAULIC CONDUCTIVITY, K (cfs/ft^2-ft)
					PRIOR TO TEST	DURING TEST				
P-01/B-03.07	7/8/2020	6	4	15.0	3.7	0.0	3.7	11.3	58.0	**1.67E-03**
P-02/B-03.04	7/8/2020	6	4	15.0	3.6	0.0	3.6	11.4	58.0	**1.71E-03**
P-03/B-03.01	7/8/2020	6	4	15.0	3.8	0.0	3.8	11.2	58.0	**1.64E-03**
P-04/B-24.10	8/4/2020	6	4	15.0	3.1	0.0	3.1	11.9	50.0	**1.69E-03**
P-05/B-24.05	8/4/2020	6	4	15.0	2.4	0.0	2.4	12.6	58.0	**2.46E-03**
P-06/B-33.03	8/5/2020	6	4	15.0	4.0	0.0	4.0	11.0	58.0	**1.57E-03**
P-07/B-31.01	8/4/2020	6	4	15.0	4.2	0.0	4.2	10.8	58.0	**1.50E-03**
P-08/B-33.04	8/4/2020	6	4	15.0	3.2	0.0	3.2	11.8	58.0	**1.90E-03**
P-09/B-36.01	7/27/2020	6	4	15.0	3.7	0.0	3.7	11.3	42.0	**1.21E-03**
P-10/B-36.03	7/27/2020	6	4	15.0	4.4	0.0	4.4	10.6	32.0	**7.98E-04**
P-11/B-03A.01	8/4/2020	6	4	15.0	6.3	0.0	6.3	8.7	28.0	**5.26E-04**
P-12	8/4/2020	6	4	15.0	3.2	0.0	3.2	11.8	58.0	**1.90E-03**
P-13	8/4/2020	6	4	15.0	3.4	0.0	3.4	11.6	58.0	**1.80E-03**
P-14/B-24.03	7/8/2020	6	4	15.0	3.7	0.0	3.7	11.3	58.0	**1.67E-03**
P-15/B-35.02	6/27/2020	6	4	15.0	2.8	0.0	2.8	12.2	58.0	**2.14E-03**

NOTES:

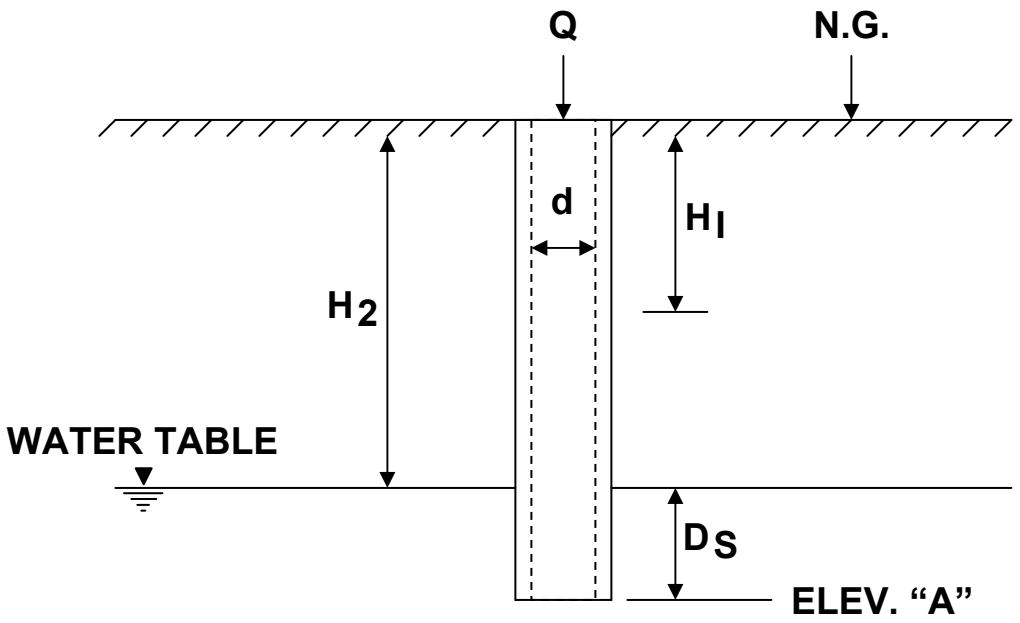
(1) The above hydraulic conductivity values are for a french drain installed to the same depth as the borehole tests. The values represent an ultimate value. The designer should apply the appropriate factor of safety.

(2) The hydraulic conductivity values were calculated based on the South Florida Water Management District's USUAL OPEN HOLE CONSTANT HEAD percolation test procedure as shown on the following page.

(3) A hole diameter of 6 inches was used in the computation of the Hydraulic Conductivity values presented in the above table.

(4) It should be noted that while performing the percolation tests, the head of water could not be raised to the ground surface with the full output of the pump, which is set at 58 gallons per minute (GPM). Therefore, in calculating the hydraulic conductivity value, we have utilized an “Average Flow Rate” of 58 GPM.

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_I = AVERAGE HEAD ON UNSATURATED HOLE SURFACE (FT.HEAD)

TABLE 5: DOUBLE RING INFILTRATION (DRI) TEST RESULTS

DORAL CENTRAL PARK

3000 NW 87th AVENUE, DORAL, FLORIDA

PSI PROJECT No.: 0397-1537

TEST NUMBER	DRI-1
DATE OF TEST	8/5/2020
TESTED BY	LR
LIQUID USED	WATER
GROUND EXCAVATED TO DEPTH (in.)	0
PENETRATION OF RINGS INTO GROUND (in.)	6
INTERNAL DIAMETER OF RINGS (in.)	12 (Inner) & 24 (Outer)
THICKNESS OF RING WALLS (in.)	0.375 (Inner) & 0.25 (Outer)
WEATHER	CLOUDY
GROUNDWATER DEPTH AT TIME OF SPT BORING (ft.)	4.8

TEST INFORMATION				
INCREMENT No.	ELAPSED TIME (min.)	TOTAL ELAPSED TIME (min.)	INNER RING FLOW READING (in.)	INNER INCREMENTAL INFILTRATION RATE (in./hr)
0	0	0	-	-
1	15	15	10	40
2	15	30	9	36
3	15	45	8	32
4	15	60	8	32
5	30	90	10	20
6	30	120	10	20
7	30	150	9	18
8	30	180	9	18
9	30	210	9	18
10	30	240	9	18
11	30	270	9	18

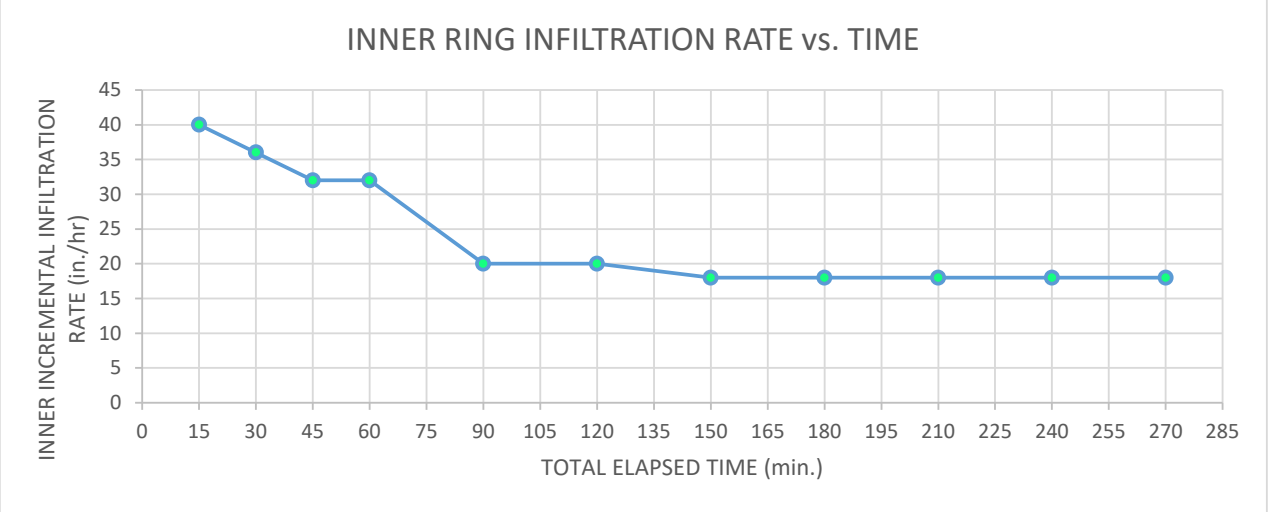


TABLE 6: DOUBLE RING INFILTRATION (DRI) TEST RESULTS

DORAL CENTRAL PARK

3000 NW 87th AVENUE, DORAL, FLORIDA

PSI PROJECT No.: 0397-1537

TEST NUMBER	DRI-2/B-06.04
DATE OF TEST	8/5/2020
TESTED BY	LR
LIQUID USED	WATER
GROUND EXCAVATED TO DEPTH (in.)	0
PENETRATION OF RINGS INTO GROUND (in.)	6
INTERNAL DIAMETER OF RINGS (in.)	12 (Inner) & 24 (Outer)
THICKNESS OF RING WALLS (in.)	0.375 (Inner) & 0.25 (Outer)
WEATHER	CLOUDY
GROUNDWATER DEPTH AT TIME OF SPT BORING (ft.)	2.3

TEST INFORMATION				
INCREMENT No.	ELAPSED TIME (min.)	TOTAL ELAPSED TIME (min.)	INNER RING FLOW READING (in.)	INNER INCREMENTAL INFILTRATION RATE (in./hr)
0	0	0	-	-
1	15	15	13	52
2	15	30	12	48
3	15	45	11	44
4	15	60	11	44
5	30	90	14	28
6	30	120	13	26
7	30	150	13	26
8	30	180	12	24
9	30	210	11	22
10	30	240	11	22
11	30	270	11	22

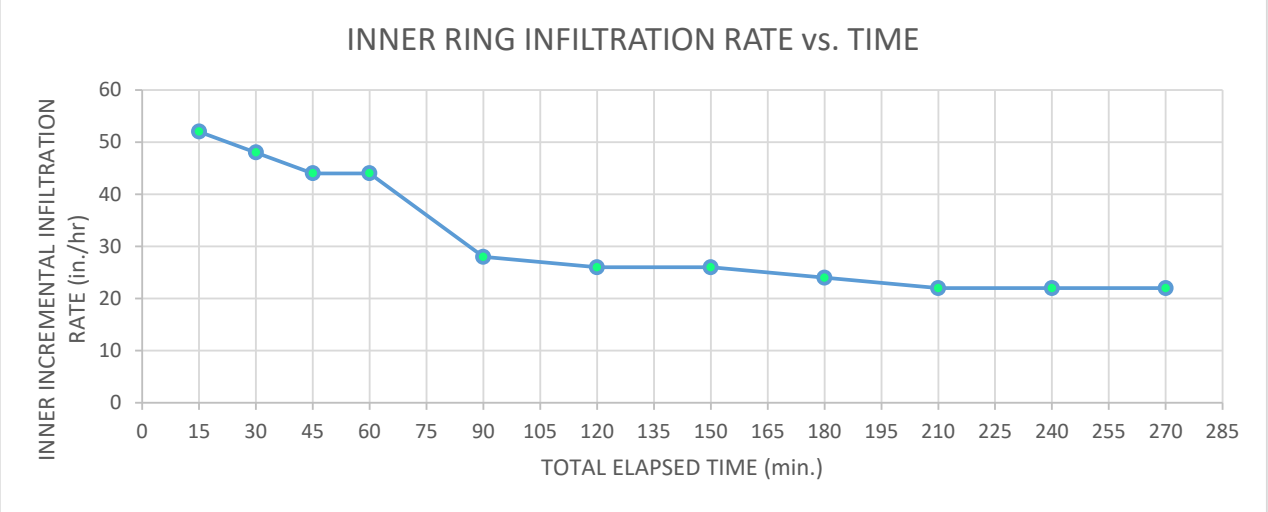


TABLE 7: DOUBLE RING INFILTRATION (DRI) TEST RESULTS

DORAL CENTRAL PARK

3000 NW 87th AVENUE, DORAL, FLORIDA

PSI PROJECT No.: 0397-1537

TEST NUMBER	DRI-3/B-31.02
DATE OF TEST	8/6/2020
TESTED BY	LR
LIQUID USED	WATER
GROUND EXCAVATED TO DEPTH (in.)	0
PENETRATION OF RINGS INTO GROUND (in.)	6
INTERNAL DIAMETER OF RINGS (in.)	12 (Inner) & 24 (Outer)
THICKNESS OF RING WALLS (in.)	0.375 (Inner) & 0.25 (Outer)
WEATHER	CLOUDY
GROUNDWATER DEPTH AT TIME OF SPT BORING (ft.)	3.7

TEST INFORMATION				
INCREMENT No.	ELAPSED TIME (min.)	TOTAL ELAPSED TIME (min.)	INNER RING FLOW READING (in.)	INNER INCREMENTAL INFILTRATION RATE (in./hr)
0	0	0	-	-
1	15	15	9	36
2	15	30	8	32
3	15	45	8	32
4	15	60	8	32
5	30	90	10	20
6	30	120	10	20
7	30	150	9	18
8	30	180	9	18
9	30	210	9	18
10	30	240	9	18
11	30	270	9	18

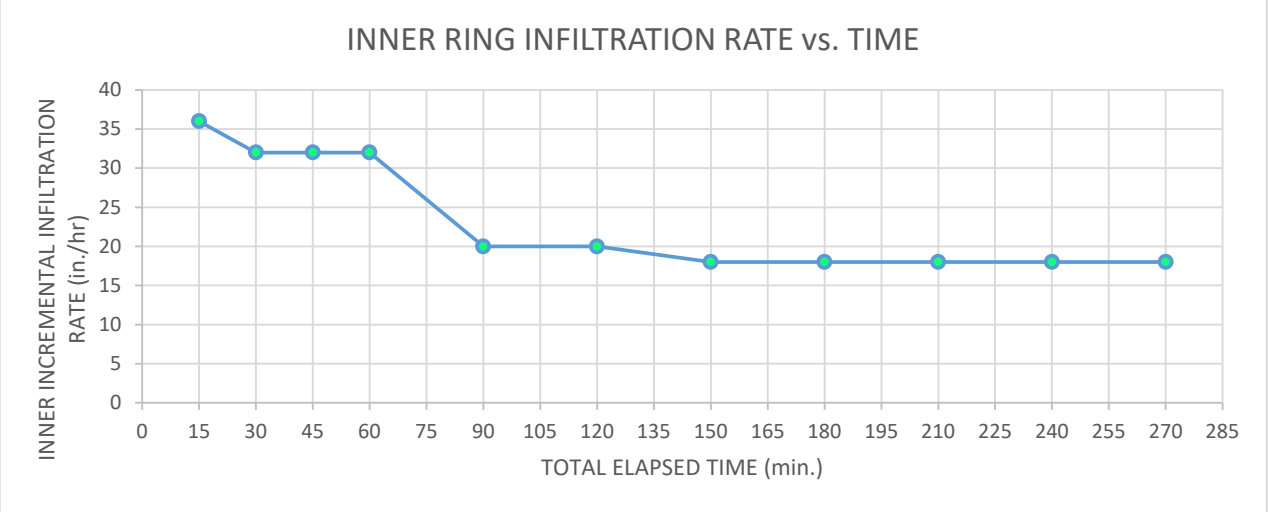


TABLE 8: DOUBLE RING INFILTRATION (DRI) TEST RESULTS

DORAL CENTRAL PARK

3000 NW 87th AVENUE, DORAL, FLORIDA

PSI PROJECT No.: 0397-1537

TEST NUMBER	DRI-4/B-36.02
DATE OF TEST	8/6/2020
TESTED BY	LR
LIQUID USED	WATER
GROUND EXCAVATED TO DEPTH (in.)	0
PENETRATION OF RINGS INTO GROUND (in.)	6
INTERNAL DIAMETER OF RINGS (in.)	12 (Inner) & 24 (Outer)
THICKNESS OF RING WALLS (in.)	0.375 (Inner) & 0.25 (Outer)
WEATHER	CLOUDY
GROUNDWATER DEPTH AT TIME OF SPT BORING (ft.)	4.1

TEST INFORMATION				
INCREMENT No.	ELAPSED TIME (min.)	TOTAL ELAPSED TIME (min.)	INNER RING FLOW READING (in.)	INNER INCREMENTAL INFILTRATION RATE (in./hr)
0	0	0	-	-
1	15	15	10	40
2	15	30	10	40
3	15	45	8	32
4	15	60	7	28
5	30	90	9	18
6	30	120	9	18
7	30	150	8	16
8	30	180	7	14
9	30	210	7	14
10	30	240	7	14
11	30	270	7	14