

GEOTECHNICAL ENGINEERING REPORT

DEERWOOD SUBDIVISION MILTON, FLORIDA

PREPARED FOR:

Mr. James Thames 67 Whittion Road Wellesley, MA 02582 c/o Dewberry Engineers Inc. 203 Aberdeen Parkway Panama City, Florida 32405

1026 PIERSON DRIVE LYNN HAVEN, FLORIDA 32444 TELEPHONE (850) 258.0994



July 27, 2020

Mr. James Thames 67 Whittion Road Wellesley, MA 02582 c/o Dewberry Engineers, Inc. 203 Aberdeen Parkway Panama City, Florida 32405

SUBJECT: Deerwood Subdivision - Geotechnical Services Milton, Florida MEI Project No. M120-100-283

Dear Mr. Thames:

This letter forwards the results of the geotechnical services performed for the proposed Deerwood Subdivision in Milton, Florida. The purpose of this exploration was to determine soil types, groundwater depths, and the estimated seasonal high groundwater levels in the proposed stormwater pond areas.

Project Description and Scope of Work

The subject site is located west of Tanglewood Drive and south of Willard Norris Road in Milton, Florida. At the time of our exploration, the easternmost portion of the site was developed with a plantation style residence with existing circle drive and gardens. Large mature oak trees were scattered across the property. The western side of the property was heavily wooded and consisted of mature pine trees.

Our exploration consisted of Three (3) 20-feet deep Standard Penetration Test (SPT) borings, Three (3) 10-feet deep auger borings, and Three (3) Double Ring Infiltrometer (DRI) Tests in the proposed stormwater management area.

Subsurface Conditions

Figure #1 shows the boring location plan and Figure #2 shows the Logs of Borings designated as B-1 through B-6. The borings were located in the field using the provided site plan with LAT/LONG coordinates and our hand-held GPS unit. Therefore, the boring locations should be considered only as accurate as the hand-held GPS unit (+/- 9 feet). The subsurface conditions encountered in the test borings will be discussed in general terms below.

The SPT borings (B-2. B-4, and B-6) generally encountered very loose to loose slightly silty fine sands from the ground surface to approximately 4 feet to 6 feet below existing grade underlain by loose to medium dense slightly clayey fine sands, clayey fine sands, and silty fine sands to the boring termination depth of 20 feet below existing grade.

Deerwood Subdivision - Geotechnical Services Milton, Florida Page 2 of 5

The auger borings (B-1, B-3, and B-5) generally encountered slightly silty fine sands from the ground surface to approximately 4 ½ to 6 ½ feet below existing grades underlain by silty and clayey fine sands to the boring termination depth of 10 feet below existing grade.

The above subsurface descriptions are of a generalized nature, provided to highlight the major soil strata encountered. The Logs of Boring should be reviewed for specific subsurface conditions at each boring location. The stratifications shown on the Logs of Boring represent the subsurface conditions at the actual boring locations only, and variations in the subsurface conditions can and may occur between boring locations and should therefore be expected. The stratifications represent the approximate boundary between subsurface materials, and the transitions between strata may be gradual.

Please refer to the attached Logs of Borings presented as Figure #2 for a more detailed profile of the soils encountered.

Groundwater Conditions

Groundwater was encountered at roughly 13.0 feet below existing grade at the time of drilling (July 14, 2020), which was during a period of slightly below normal seasonal rainfall. By definition, the normal seasonal high groundwater table elevation is the highest level of the saturated zone in the soil during a year with normal rainfall. The procedure used in estimating the seasonal high groundwater table is based on adjusting the existing groundwater table encountered upward or downward and taking into consideration factors such as antecedent rainfall, redoximorphic features (identifying soil mottling) and vegetative indicators. The following Table #1 provides the groundwater levels and estimated seasonal high groundwater levels at each boring location. Groundwater levels will fluctuate with rainfall and could vary several feet during typical seasonal fluctuations. Larger fluctuations are possible under severe weather conditions.

TEST LOCATION	DEPTH TO EXISTING GROUNDWATER TABLE (ft)	DEPTH TO ESTIMATED SEASONAL HIGH GROUNDWATER TABLE (ft)
B-1	>10.0 feet	10.0 feet
B-2	13.0 feet	10.0 feet
B-3	>10.0 feet	10.0 feet
B-4	13.0 feet	10.0 feet
B-5	>10.0 feet	10.0 feet
B-6	13.0 feet	10.0 feet

TABLE #1GROUNDWATER DATA

General

The following geotechnical related design recommendations have been developed on the basis of the previously described project characteristics and subsurface conditions encountered. If there are any changes in these project criteria, including project location on the site, a review should be made by Magnum Engineering to determine if modifications to the recommendations are warranted.

Once final design plans and specifications are available, a general review by Magnum Engineering is recommended as a means to check that the evaluations made in preparation of this report are correct and that earthwork and foundation recommendations are properly interpreted and implemented

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Double Ring Infiltrometer Test

Three (3) Double Ring Infiltrometer tests were performed in the field in general accordance with the procedures outlined in ASTM D-3385, ``Infiltration Rate of Soils in Field using Double Ring Infiltrometers''. Testing consisted of initially clearing all surface vegetation and topsoil from within the test area. The Infiltration test was performed approximately 1.5 feet below existing grade at test locations DRI-1, DRI-2, and DRI-3. The outer ring, which is approximately 24 inches in diameter, was then driven to a depth of 6 inches below the exposed ground surface. The inner ring, approximately 12 inches in diameter, was then centrally located within the outer ring and driven to a depth of 2 inches. The two rings were then simultaneously filled with water to a height of 4 inches above the exposed ground surface test soils. The water level was maintained at this height throughout the test period, with the required amount of water added to maintain this level in both rings recorded at time intervals of 5 minutes.

The infiltration rate for the inner ring and the annular space between the rings is determined by dividing (a) the water volume used (within each specific area) during the stabilized flow period of the test, by (b) the specific area and (c) the time interval. Infiltration rates are generally converted to units of inches per hour. The infiltration rate for the inner ring, if different than the infiltration rate of the annular area between the rings, according to ASTM, should be used as the infiltration rate for the soils.

ENVIRONMENTAL RESOURCE PERMITTING (ERP) DESIGN PARAMETERS

DESCRIPTION	LOCATION	DESIGN PARAMTER
SUSTAINED INFILTRATION RATE (Kvu)	DRI-1	4.9* in/hr
TEST DEPTH	DRI-1	1.5 ft
FILLABLE POROSITY	DRI-1	25%
DEPTH TO EXISTING GROUNDWATER TABLE	DRI-1	13.0 feet
DEPTH TO ESTIMATED SEASONAL HIGH GROUNDWATER TABLE	DRI-1	10.0 feet

<u>DRI-1</u>

<u>DRI-2</u>

DESCRIPTION	LOCATION	DESIGN PARAMTER
SUSTAINED INFILTRATION RATE (Kvu)	DRI-2	2.3* in/hr
TEST DEPTH	DRI-2	1.5 ft
FILLABLE POROSITY	DRI-2	25%
DEPTH TO EXISTING GROUNDWATER TABLE	DRI-2	13.0 feet
DEPTH TO ESTIMATED SEASONAL HIGH GROUNDWATER TABLE	DRI-2	10.0 feet

DESCRIPTION	LOCATION	DESIGN PARAMTER
SUSTAINED INFILTRATION RATE (Kvu)	DRI-3	16.8* in/hr
TEST DEPTH	DRI-3	1.5 ft
FILLABLE POROSITY	DRI-3	25%
DEPTH TO EXISTING GROUNDWATER TABLE	DRI-3	13.0 feet
DEPTH TO ESTIMATED SEASONAL HIGH GROUNDWATER TABLE	DRI-3	10.0 feet

* Note: The above infiltration rate has not been factored and is up to the designer to apply an appropriate factor of safety.

We recommend using a transformation ratio of 1 horizontal to 1 vertical (i.e. the estimated ratio of horizontal to vertical permeability).

Warranty and Limitations of Study

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either expressed or implied. Magnum Engineering, Inc. is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

Soil conditions at other locations may differ from those encountered in the test borings, and the passage of time may cause the soils conditions to change from those described in this report.

This report is intended for use by the designers of this project. While we have no objections to it being provided for review by parties to this project, it is not a specification document and is not to be used as a part of the specifications. If desired, we can assist in the development of specifications for this project based upon our exploration.

The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or his representative is therefore considered necessary to verify the subsurface conditions and to check that the soils connected construction phases are properly carried out. If significant variations or changes are in evidence, it may be necessary to reevaluate the recommendations in this report.

Furthermore, if the project characteristics are altered significantly from those discussed in this report, or if the project information contained in this report is incorrect and additional information becomes available, a review must be made by this office to determine if any modifications in the recommendations will be necessary.

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We hope this letter provides sufficient information for the present. If you have any questions or

Sincerely, MAGNUM ENGINEERING, INC JAMES T. VICKERS, P.E. Sr. Geotechnical Engineer Iorida Reg. #56813 ttachments: Figure #1 – Boring Location Figure #2 – Location Antiper State of Stat Attachments: Figure #1 – Boring Location Plan Figure #2 – Logs of Borings Appendix A – Double 5 Appendix A – Double Ring Infiltrometer Test Results



BORING LOCATION PLAN

FIGURE #1







LOGS OF BORINGS

FIGURE # 2

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CLIENT	Dewberry Engineers, Inc.	PROJECT N	AME	Deer	wood S/D I	Vilton						
PROJE	CT NUMBER	PROJECT LOCATION Milton, Florida										
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		Brown Slightly Silty Fine SAND (SP-SM)		SS 1		2-3-3-4 (6)							
		Brown/Orange Slightly Silty Fine SAND with Trace of Clay (SP-SM)	′	SS 2		1-2-1-2 (3)							
5		Orange/Brown Clayey Fine SAND (SC)		SS 3		3-4-4-5 (8)							
		Orange/Brown Slightly Clayey Fine SAND (SP-SC)	X	SS 4		3-4-3-4 (7)							
			X	SS 5		4-5-5-5 (10)	-						
		$\overline{\Delta}$											
15 15		Tan/Orange Silty Fine SAND (SM)	X	SS 6		6-10-12 (22)	-						
							-						
		Brown/Orange Medium to Fine Clayey SAND (SW-SM)		SS 7		10-13-15 (28)							
	╷┈╻╠┖╵	Boring Termination Depth at 20.0 feet.		L									

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		Brown Slightly Silty Fine SAND (SP-SM)		ss 1		3-4-4-5 (8)							
				ss 2		3-2-2-2 (4)							
5		Red/Brown Clayey Fine SAND (SC)		SS 3		2-4-4-5 (8)	-						
				ss 4		3-4-3-4 (7)							
10		Red/Orange Slightly Clayey Fine SAND (SP-SC)		SS 5	-	3-4-6-6 (10)	-						
				Л	-		-						
ס <u>15</u> 15 פווא צויח 10 פווא 15		Biowinorange Glayey Fine SAND (SC)		SS 6	-	8-8-9 (17)	-						
		Gray/Orange Slightly Silty Fine SAND with Trace of Clay (SP-S	5м)	SS 7	-	7-11-13 (24)	-						
20 DEEKWOO		Boring Termination Depth at 20.0 feet.		<u> </u>	-	. ,							
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LOGGED B	Y J. Governale CHECKED BY J. Vickers	ESTIMA	ATED	SEAS	SONAL HIG	H GW	т					
NOTES		AFTER	DRIL	LING								
DEPTH (ff) GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)				FINES CONTENT (%)
EEOTECH BH COLUMNS DEERWOOD SUBDIVISION MILTON GPU GPU 7123/20	Brown Slightly Silty Fine SAND (SP-SM) Tan/Orange Slightly Clayey Fine SAND (SP-SC) Gray/Brown Clayey Fine SAND (SC) Brown/Orange Slightly Clayey Fine SAND (SP-SC) Boring Termination Depth at 10.0 feet.		AU									

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				SS 1		2-3-3-2 (6)							
	-			SS 2		2-3-2-3 (5)							
5		Brown/Orange Slightly Clayey Fine SAND (SP-SC)		SS 3		3-3-3-3 (6)							
		Brown/Orange Clayey Fine SAND (SC)		SS		3-4-3-4							
				4	-	(7)							
10				SS 5	-	3-3-3-3 (6)							
		∑											
				SS 6	-	7-8-10 (18)							
15 15													
		Tan/Orange Silty Fine SAND with Trace of Clay (SM)		SS 7		8-10-12							
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DOUBLE RING INFILTROMETER TEST <u>RESULTS</u>



Double-Ring Field Infiltration Test

	<u>Double rang</u> rola i	
Test Location:	DRI at B-2	
Project Name:	Deerwood Subdivision	
Project Location:	Milton, Florida	
Test Depth:	1.5 ft	
Depth to GWT:	13 ft	
Inner Ring Diameter:	12 in	0.3048 m
Outer Ring Diameter:	24 in	0.6096 m
Pre-Saturation	30 min	
Area Outer Ring:	3.1416 ft^2	0.00202683 m ²
Area Inner Ring:	0.7854 ft^2	0.00050671 m ²
Net Outer Ring Area:	2.3562 ft^2	0.00152013 m ²

	Inner Ring		
Cycle	ElapTime	Vol Used	Infiltration
Cycle	(sec)	(in^3)	Rate (ft/sec)
1	300	55	1.35E-04
2	300	55	1.35E-04
3	300	55	1.35E-04
4	300	50	1.23E-04
5	300	50	1.23E-04
6	300	46	1.13E-04
7	300	46	1.13E-04
8	300	46	1.13E-04
9	300	46	1.13E-04
10	300	46	1.13E-04
11	300	46	1.13E-04
12	300	46	1.13E-04
13	300	46	1.13E-04
14	300	46	1.13E-04
15	300	46	1.13E-04
16	300	46	1.13E-04
17	300	46	1.13E-04
18	300	46	1.13E-04
Results	Sustained Rate	48	1.18E-04





Double-Ring Field Infiltration Test

	2000.0 range rola in	
Test Location:	DRI at B-4	
Project Name:	Deerwood Subdivision	
Project Location:	Milton, Florida	
Test Depth:	1.5 ft	
Depth to GWT:	13 ft	
Inner Ring Diameter:	12 in	0.3048 m
Outer Ring Diameter:	24 in	0.6096 m
Pre-Saturation	30 min	
Area Outer Ring:	3.1416 ft^2	0.00202683 m ²
Area Inner Ring:	0.7854 ft^2	0.00050671 m^2
Net Outer Ring Area:	2.3562 ft^2	0.00152013 m ²

		Inner Ring			
	Cycle	ElapTime	Vol Used	Infiltration	
		(sec)	(in^3)	Rate (ft/sec)	
	1	300	28	6.88E-05	
	2	300	28	6.88E-05	
	3	300	28	6.88E-05	
	4	300	28	6.88E-05	
	5	300	25	6.14E-05	
	6	300	25	6.14E-05	
	7	300	25	6.14E-05	
	8	300	22	5.40E-05	
	9	300	22	5.40E-05	
	10	300	22	5.40E-05	
	11	300	22	5.40E-05	
	12	300	22	5.40E-05	
	13	300	22	5.40E-05	
	14	300	22	5.40E-05	
	15	300	22	5.40E-05	
	16	300	22	5.40E-05	
Γ	17	300	22	5.40E-05	
Γ	18	300	22	5.40E-05	
	Results	Sustained Rate	24	5.85E-05	





Double-Ring Field Infiltration Test

	2000.0 range rola in	
Test Location:	DRI at B-6	
Project Name:	Deerwood Subdivision	
Project Location:	Milton, Florida	
Test Depth:	1.5 ft	
Depth to GWT:	13 ft	
Inner Ring Diameter:	12 in	0.3048 m
Outer Ring Diameter:	24 in	0.6096 m
Pre-Saturation	30 min	
Area Outer Ring:	3.1416 ft^2	0.00202683 m ²
Area Inner Ring:	0.7854 ft^2	0.00050671 m ²
Net Outer Ring Area:	2.3562 ft^2	0.00152013 m ²

	Inner Ping		
Cycle	ElapTime	Vol Used	Infiltration
Oyolo	(sec)	(in^3)	Rate (ft/sec)
1	300	170	4.18E-04
2	300	170	4.18E-04
3	300	170	4.18E-04
4	300	158	3.88E-04
5	300	158	3.88E-04
6	300	158	3.88E-04
7	300	158	3.88E-04
8	300	158	3.88E-04
9	300	158	3.88E-04
10	300	158	3.88E-04
11	300	158	3.88E-04
12	300	158	3.88E-04
13	300	158	3.88E-04
14	300	158	3.88E-04
15	300	158	3.88E-04
16	300	158	3.88E-04
17	300	158	3.88E-04
18	300	158	3.88E-04
Results	Sustained Rate	160	3.93E-04

