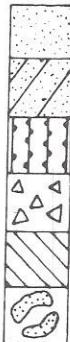




Appendix E

Description

Subsoil Investigations



SOIL MECHANICS DRILLING CORP.

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783
(516) 221-2333 • FAX (516) 221-0254

October 31, 2019

Weiss Properties
41 Bayard Street
New Brunswick, NJ 08901
Att: Robert Weiss

Re: Woodmere Country Club
99 Meadow Drive
Woodmere, NY
Our Job #19-474

Gentlemen:

Forwarded herewith are the results of the test borings drilled and monitoring wells installed at the above referenced site.

A copy of the boring logs and report is being e-mailed to Angelo Laino of VHB Engineering.

The purpose of the subsurface investigation was to determine the nature and extent of the underlying soil deposits and determine the structural engineering characteristics of the soil at the site. A total of seventeen (17) test borings were drilled to a depth of 20 feet each using truck mounted drilling equipment and four (4) monitoring wells were installed at the locations shown on our Boring Location Plan. The borings were advanced using hollow stem auger casing. Sample recovery was obtained with a 2" diameter, 2'0" long split spoon sampler was advanced into the subsurface by the use of an automatic 140 lb. hammer with a 30" drop. From the drops of the hammer, blow counts required to advance the split spoon sampler over each 6" intervals were recorded and is shown on the boring logs. Continuous split spoon samples were taken for the top 6 to 12 feet then every 5 feet thereafter to the final depths of the borings. A written description of the recovered soil samples per our geologist's visual identification of same is also presented on the logs.

The CME automatic hammer operates with an efficiency of approximately 90%. The original conventional use of rope, cathead and drop weight, on the other hand, operates with an efficiency of approximately 60%. As a consequence, the standard penetration test results obtained using the CME auto-hammer are on the order of two-thirds the value that would have been obtained had the original rope and cathead method been used. This is significant if you are using design charts for soil strength parameters based on historical data associated with the rope and cathead method. If so, you should adjust our data accordingly.

SOIL MECHANICS DRILLING CORP.

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783
(516) 221-2333 • FAX (516) 221-0254

Weiss Properties
Att: Robert Weiss

October 31, 2019
Page 2

Our investigation revealed that the areas drilled are blanketed by from 2 feet to 11 feet of loam, loose soil fill, soft compressible peat and organic silt and clay, underlain, generally, by a moderately dense to dense coarse to fine sand with traces of silt and gravel extending to the deepest depth drilled.

Natural ground water was encountered within the boreholes at depths ranging from 3'1" to 15'10" below existing grade at the time the work was done.

We have not been informed of the finished floor elevations. However, we can offer the following recommendations at this time:

Some areas can support spread footings using a 2 tons per square foot bearing capacity. Other areas will need to be founded on piles installed through the fill and organic deposits into the lower natural sand.

Frost penetration in this area is 3 feet. All exterior foundations must have a minimum of 3 foot of cover.

Liquefaction is not likely and need not be a design consideration.

The soils generated by this investigation best fit that of Site Class "D" in accordance with Table 1513.5.5 of the New York State Building Code.

Four (4) monitoring wells were installed at boring B-1, B-8, B-10 and B-14.

Soil samples recovered during drilling operations will be stored in our lab for a period of 30 days after which they will be destroyed. During this period we will deliver these samples to any prescribed location upon request.

SOIL MECHANICS DRILLING CORP.

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783
(516) 221-2333 • FAX (516) 221-0254

Weiss Properties
Att: Robert Weiss

October 31, 2019
Page 3

If after you examine the enclosed you have any further questions, please feel free to call and discuss them with us.

Billing is enclosed.

Very truly yours,

SOIL MECHANICS DRILLING CORP.

Carl Vernick, P.E.
President

CV:mlf
Encls.

Cc: Angelo Laino: alaino@vhb.com

EL. (12.1a) GROUND SURFACE NO. SB REC. CLASSIFICATION		
1 A 1	DARK BRN. ORGANIC LOAM (OLL16)	
1 1 3 14"		
B 2	DARK BRN-BRN SILTY SAND, TR. GRAVEL, THIN ROOTS (SM-HILL17)	
2 20 4"		
5 A 6	BRN. SAND, LITTLE GRAVEL, SILT, TH. ROOTS (SP-M)(FILL17)	
5 10 17"		
B 14	LIGHT BRN. FINE SAND, TR. SILT (SP)(3a)	
10 16 19"		
4 12 14"		
END OF BORING 20'-0"		

- NOTES
- SOIL DESCRIPTIONS ARE BY VISUAL EXAMINATION OF SOIL SAMPLES RECOVERED DURING DRILLING OPERATIONS.
 - SOIL DESCRIPTIONS ARE IN ACCORD WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM.
 - GROUND WATER TABLE WAS MEASURED INSIDE THE DRILL CASING AT THE COMPLETION OF EACH BOREHOLE.
 - SOIL STRATIFICATIONS ARE ACCURATE TO WITHIN TWO FEET VERTICALLY.
 - SOIL SAMPLES WERE OBTAINED USING A CENTRAL MINE EQUIPMENT (CMB) AUTOMATIC TRIP HAMMER.
 - SOIL TEST BORING GROUND SURFACE ELEVATIONS SHOWN ARE REFERENCED TO TOP OF DRAIN INLET AT B.M. EL. 680' - FROM SURVEY PREPARED BY: CARMEN & DUNN.
 - MONITORING WELLS ARE LOCATED.

