190 Attachment 6

Township of Allamuchy

CHECKLIST

Details Required for Geotechnical Investigation Report
[Amended 11-14-2018 by Ord. No. 2018-23]

NOTE: See § 190-804C(3)(c) of the Allamuchy Township Land Development Ordinance for further details of submission requirements and procedures.

Applicant _____ **Block** _____ **Lot** _____

Item #	Provided	Not Relevant	Waiver Asked For	GTC OK	Item of Information Required by the Land Development Ordinance
1					Report(s) and Checklist(s) (15 copies).
2					Name, address, telephone number and signature of New Jersey licensed engineer who prepared the report.
3					Name, telephone number and address of New Jersey licensed well driller.
4					Name, telephone number and address of Geotechnical Consultant (GTC).
5					Direct Testing Procedures – Test Borings:
6					Number of test borings proposed.
7					Depths anticipated. (If rock encountered is within 40 feet of ground surface, a minimum of 10 feet of rock is to be cored. Rock cores shall be a minimum of 2 inches in diameter to be obtained by double tube split barrel coring device.)
8					Boring techniques to be used. (Unless written approval is authorized, all test borings will be drilled using rotary wash/without use of drilling muds. Water losses in borings are to be monitored as to depth and quantities; drilling speed and rod drops must also be monitored.)
9					Proposed bore hole cement grouting techniques consistent with N.J.A.C. 7:9-9.1 et seq.
10					Descriptions of proposed monitoring well completions with attached as-built drawing(s).

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11					Soil and rock sampling performed in accordance with ASTM Standards D420, D1586, D1587, and D2113.
12					Logging of all test borings or test pits in accordance with the Unified Soil Classification System and in relation to the geologic origin of the constituents of the encountered materials, e.g., light yellow brown silty clay (CH), with occasional angular dolomite fragments, moderately stiff, residual soils, some stained paleo jointing.
13					Direct Testing Procedures – Test Pits:
14					Number and depth of proposed pits. (To be acceptable, minimum bottom area of pits shall be 10 square feet.)
15					Method of backfill to be employed. (Test pit backfill shall be composed of excavated material placed in layers and compacted to pre-excavation density, unless authorized otherwise by GTC.)
16					Direct Testing Procedures – Piezometers, Lysimeters and Water Table Data:
17					Number, locations and types to be used; and
18					List of other methods to be used. (These shall be installed and monitored in sufficient locations to identify depth to seasonable high water table and rate and direction of groundwater flow.).
19					Procedures for Geotechnical Testing of Properties of Soils, Rock and Water:
20					List of methods proposed.
21					Direct Testing Procedures – Percussion Probes:
22					Number proposed;
23					Depths anticipated; and
24					Logging techniques to be utilized (e.g., air loss, material consistency, drilling speed and rod drops).
25					Indirect Testing Procedures – Geophysical Studies:

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26					Seismic refraction and reflection; location and number of runs anticipated and equipment to be used; specify procedures and location of surveys;
27					Ground-penetrating radar; specify procedures and location of surveys; and
28					Magnetic, gravity or conductivity techniques; specify procedures and location of surveys.
29					Indirect Testing Procedures – Geologic Reconnaissance:
30					Factors to be examined – vegetative changes, observable seeps, or groundwater discharge, circular depressions, swales, and disappearing streams; and
31					Additional field investigation techniques proposed.
32					Maps, Drawings, and Other Documentation:
33					Location of site on 1:24,000 scale USGS topo map, and general site plan showing locations of all field-testing procedures, in relation to the planned development at a minimum scale of 1 inch = 100 feet;
34					Time table of proposed field investigation, laboratory testing, test data receipt and final report to the Township. If investigation is to be performed in more than one phase, give an estimated schedule of each phase and expected results;
35					Proposed technical inspection procedures during investigation (continuous technical supervision of field investigations is strongly recommended);
36					Submission of application fees; and
37					Special factors or conditions applicant wishes to bring to the attention of the GTC.
38					Major development stormwater summary sheet shall be submitted when a stormwater management basin is proposed on a project.

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39					Referral to the Warren County Mosquito Control Commission on such applications as may be deemed appropriate by the Board Engineer that affects the health and safety of citizens of Allamuchy Township regarding mosquitos and mosquito infestation.

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SIGNATURE AND TITLE OF PERSON WHO PREPARED CHECKLIST DATE

Municipal GTC Review:
Approval of Phase II Checklist:
Phase II Checklist Completion Date:
Conditions to be imposed on approval:
Denial of Phase II Checklist: