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MANALAPAN
HEALTH DEPT.

Abbington Engineering, LLC

September 14, 2017

Manalapan Township Health Department
Attention: Dana L. Scotto
Principal Registered Environmental Health Specialist
120 Route 522
Manalapan, NJ 07726

RE: ~~MILSTONE~~ MANALAPAN TOWNSHIP FILL CERTIFICATION
61 HIGHLAND RIDGE – MANALAPAN, BLOCK 8404-LOT 4

Dear: Ms. Scotto

On September 14, 2017, a representative of Abbington Engineering, LLC was present during the installation of the soils used in the soils replacement system for the disposal bed of the above referenced lot. The elevation of the fill material placed within the septic field are in substantial compliance with that proposed on the approved plans and is no indication of over or under compaction. The installation of the fill materials was accomplished in accordance with N.J.A.C. 7:9A-10.4(F). Percolation tests were performed after the final placement of all fill materials. A series of two (2) percolation tests were performed evenly spaced over the fill material placed within the bed. The percolation rate tests results are as follows:

42" Depth (From Proposed F.G.)	3.26 Minutes Per Inch
40" Depth (From Proposed F.G.)	3.31 Minutes Per Inch

The approved septic system design specified soils with a permeability class rating of K4. In accordance with N.J.A.C. 7:9A, K4 soils are anticipated to achieve a percolation rate in the range of 3 to 15 minutes/inch. The recent percolation tests have met or exceeded that requirement. Therefore, the installation of fill for the above referenced lot has been carried out, as indicated on the approved engineering design plans, and in accordance with the Standards for Individual Subsurface Sewage Disposal System.

Very truly yours,

VINCENT CREEVY, P.L.S.-Environmental Project Manager

cc: Applicant

Proj. Name: 61 Highland Ridge
Proj. No. :151

ABBINGTON ENGINEERING
436 West Commodore Blvd. Suite 2
Jackson, NJ 08527
(732) 431-1440

Form 3d. Percolation Test Data Block 8404 Lot 4
61 Highland Ridge, Manalapan Twp. , NJ

1. Test Number 1 Replicate (Letter) A Date Tested 9/14/2017

2. Depth 42" Below Finished Grade

3. Pre-Soak: 14" (Drained in 49 min.)
   X Sandy Textured Soil Only, Shortened Pre-Soak - Indicate Time Required for 12 Inches of Water to Drain After Second Filling Minutes
   34

   _____ Four Hour Pre-Soak Completed--Indicate Result:

   _____ Test Hole Drained Within 16 to 24 Hours After Pre-Soak
   _____ Test Hole Did Not Drain Within 24 Hours After Pre-Soak

4. Rate of Fall Data:

   a. Time Interval Selected, Minutes 3 MIN.

   b. Record the Drop in Water Level During Each Time Interval to the Nearest 1/10th-Inch On the Lines Below:

Depth of Water, Start Of Interval (inches)	Depth of Water, End of Interval (inches)	Drop in Water Level (inches)
14	13	1.0
12.5	11.5	1.0
11.0	10.0	0.9
9.5	8.6	0.9
8.5	7.6	0.8
7	1	6

5. Percolation Rate: Stop Watch Used
   a. Time, minutes, Required for a Six-inch Drop in Water Level 19.56
   b. Percolation Rate = a/6 = 19.56 /6 = 3.26 min/in

Signature of Site Evaluator _____ Date 9/15/17
Vincent Creevy

Signature of Professional Engineer _____ Date 9/15/2017
Anthony Maltese, P.E., C.M.E. License No. 42579

Proj. Name: 61 Highland Ridge
Proj. No. :151

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Form 3d. Percolation Test Data Block 8404 Lot 4
61 Highland Ridge, Manalapan Twp. , NJ

1. Test Number 2 Replicate (Letter) A Date Tested 9/14/2017

2. Depth 40" Below Finished Grade

3. Pre-Soak: 14" (Drained in 47.5 min.)
   X Sandy Textured Soil Only, Shortened Pre-Soak - Indicate Time Required for 12 Inches of Water to Drain After Second Filling Minutes
   32.5

   _____ Four Hour Pre-Soak Completed--Indicate Result:

   _____ Test Hole Drained Within 16 to 24 Hours After Pre-Soak
   _____ Test Hole Did Not Drain Within 24 Hours After Pre-Soak

4. Rate of Fall Data:

   a. Time Interval Selected, Minutes 3 MIN.

   b. Record the Drop in Water Level During Each Time Interval to the Nearest 1/10th-Inch On the Lines Below:

Depth of Water, Start Of Interval (inches)	Depth of Water, End of Interval (inches)	Drop in Water Level (inches)
14	12.8	1.0
12.5	11.3	1.1
11.0	10.1	0.9
9.5	8.6	0.8
8.5	7.6	0.9
7	1	6

5. Percolation Rate: Stop Watch Used
   a. Time, minutes, Required for a Six-inch Drop in Water Level 19.85
   b. Percolation Rate = a/6 = 19.85 /6 = 3.31 min/in

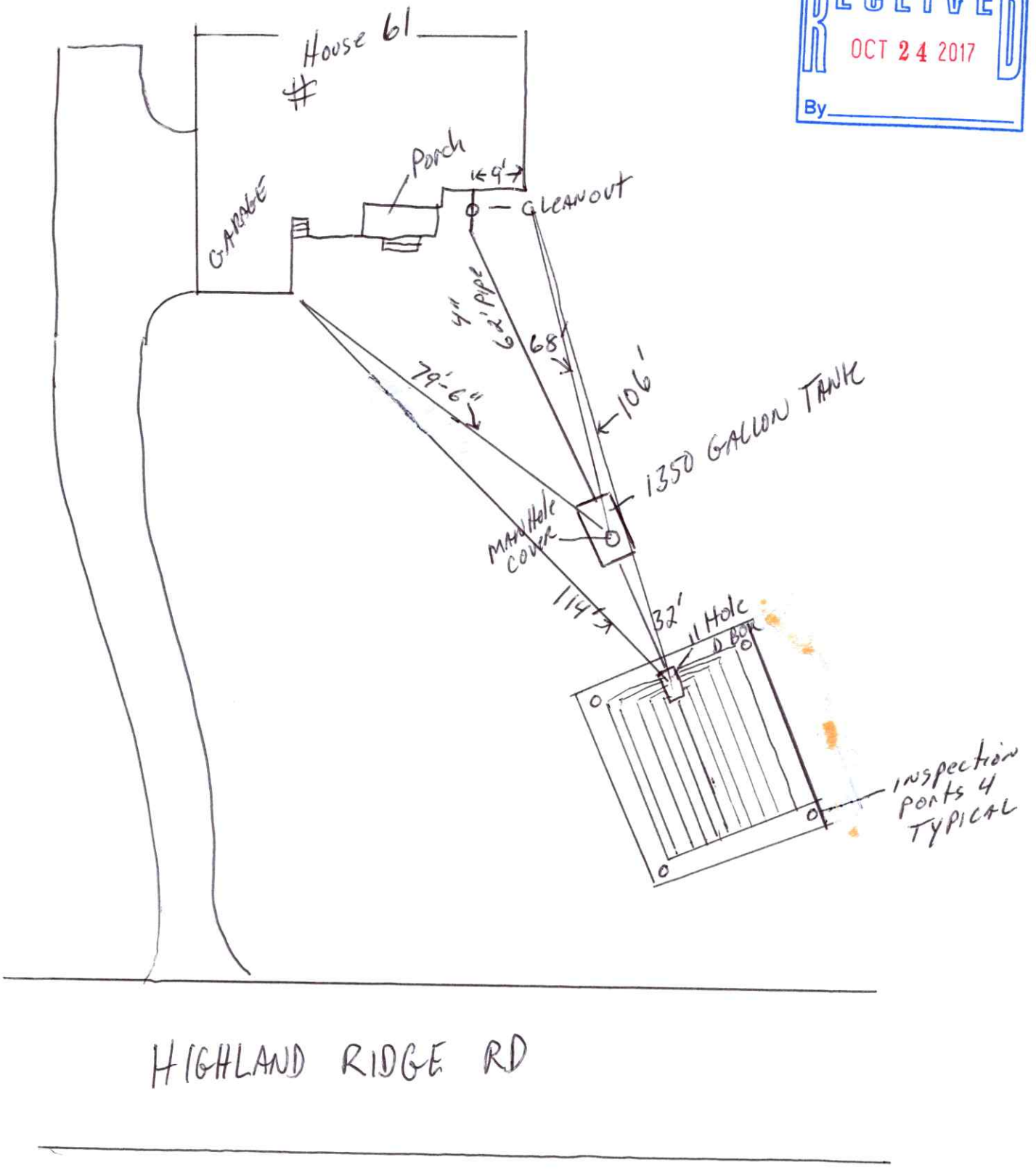
Signature of Site Evaluator _____ Date 9/15/17
Vincent Creevy

Signature of Professional Engineer _____ Date 9/15/2017
Anthony Maltese, P.E., C.M.E. License No. 42579

Charlie Diehl 732-495-3119
3-C's Backhoe Serv.
16 Kentucky Ave.
Middletown N.J.
07748

As Built
Septic
Not to scale

RECEIVED
OCT 24 2017
By



1350

Certificate # 6906

Township: Manalapan County: Monmouth Block: 8404 lot: 4

Street Address: 61 Highland Ridge Rd.

Purchaser: 3C's Backhoe Service

I, Daryl Thomas certify that the Septic Tank installed on the above referenced block and lot has passed the Watertightness Test as described by the ASTM, C-1227 as set by N.J.A.C. 7:9A "Standards for Individual Subsurface Disposal Systems".

Daryl Thomas
Signature

9/14/17
Date of Test

Type of Tank: Concrete x Polyethylene ___

Type of Test: Vacuum Testing X

DARYL THOMAS
Name of Tester (Please Print)

Daryl Thomas
Signature of Tester

MERSHON CONCRETE
Company Name
PO BOX 254 RT. 130 SOUTH, BORDENTOWN, NJ 08505
Address
609-298-2150
Phone Number with Area Code

Witness By C. [illegible]

Witness ___