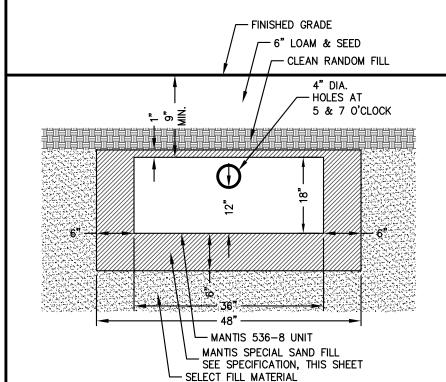


CONCRETE SEPTIC TANKS SHALL CONFORM TO SECTION V. "SEPTIC TANKS" OF THE "CONNECTICUT PUBLIC HEALTH CODE, REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS", REVISED THROUGH JANUARY 1, 2018

TYPICAL SEPTIC TANK



FOR ADDITIONAL INFORMATION AND INSTALLATION INFORMATION, CONTACT THE ELJEN CORPORATION 125 McKEE STREET, EAST HARTFORD, CT 06108 TEL 800-444-1359 ELJEN.COM

TYPICAL SECTION — LEACHING SYSTEM

NOT TO SCALE

SEPTIC SYSTEM NOTES:

SERIAL DISTRIBUTION SHALL BE USED.

THE LOCATION AND ELEVATION OF THE LEACHING TRENCHES SHALL NOT BE ADJUSTED WITHOUT FIRST CONSULTING THE HEALTH DEPARTMENT AND THE ENGINEER.

THE SEPTIC SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF CONNECTICUT PUBLIC HEALTH CODE.

A LICENSED SEPTIC INSTALLER MUST OBTAIN A "PERMIT TO CONSTRUCT" FROM THE LOCAL HEALTH DEPARTMENT BEFORE BEGINNING CONSTRUCTION OF THE SEPTIC SYSTEM.

THE LEACHING AREA SHALL BE STAKED FOR CONSTRUCTION BY A LICENSED LAND SURVEYOR.

THE CONTRACTOR SHALL COORDINATE INSPECTIONS WITH THE LOCAL HEALTH DEPARTMENT.

PIPING FROM THE FOUNDATION WALL TO THE SEPTIC TANK SHALL BE 4" MINIMUM IN DIAMETER AND COMPLY WITH TABLE NO. 2 OF THE CONNECTICUT PUBLIC HEALTH CODE TECHNICAL STANDARDS. THE PIPE SHALL BE INSTALLED AT A MINIMUM PITCH OF 1/4 IN/FT.

PIPING FROM THE SEPTIC TANK TO THE DISTRIBUTION BOX, BETWEEN DISTRIBUTION BOXES AND PERFORATED DISTRIBUTION PIPE SHALL BE 4" IN DIAMETER AND COMPLY WITH TABLE NO. 5 OF THE CONNECTICUT PUBLIC HEALTH CODE TECHNICAL STANDARDS.

ALL CHANGES IN PIPE DIRECTION OR GRADE SHALL BE MADE WITH PROPER FITTINGS.

THE SEPTIC TANK INSPECTION OPENINGS SHALL BE PROVIDED WITH RISERS IF GREATER THAN 12" BELOW GRADE.

THE LEACHING AREA SHALL BE "ROPED OFF" OR OTHERWISE PROTECTED FROM DISTURBANCE AND TRAFFIC UNTIL CONSTRUCTION OF THE LEACHING AREA IS STARTED.

SELECT FILL

IT IS THE RESPONSIBILITY OF THE SEPTIC INSTALLER TO PROVIDE AND INSTALL SELECT FILL MATERIAL IN CONFORMANCE WITH THE FOLLOWING:

THE SEPTIC INSTALLER SHALL PROVIDE A SIEVE ANALYSIS TO THE LOCAL HEALTH DEPARTMENT OR ENGINEER FOR APPROVAL IF REQUESTED

SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY A PROFESSIONAL ENGINEER FOR USE WITHIN THE LEACHING AREA.

TOPSOIL AND ORGANIC MATTER WITHIN THE LEACHING AREA SHALL BE STRIPPED PRIOR TO PLACEMENT OF THE SELECT FILL MATERIAL, EXCAVATION EQUIPMENT IS NOT PERMITTED IN THE LEACHING AREA UNTIL THE SELECT FILL MATERIAL HAS BEEN PLACED AND COMPACTED.

THE SELECT FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12 INCHES IN DEPTH AND SHALL BE COMPACTED TO 90% OF OPTIMUM DENSITY.

AT THE DIRECTION OF THE LOCAL HEALTH DEPARTMENT OR ENGINEER, A PERCOLATION TEST MAY BE REQUIRED IN THE COMPACTED SELECT FILL MATERIAL TO CONFIRM PROPER PLACEMENT.

THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THREE (3) INCH SIEVE.

UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE). THE MATERIAL THAT PASSES THE #4 SIEVE IS THAN REWEIGHED AND THE SIEVE ANALYSIS STARTED. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING CRITERIA:

SIEVE SIZE	PERCENT PASSING			
	WET SIEVE	DRY SIEVE		
#4	100	100		
#10	70 – 80	70 - 100		
#40	10 - 50*	10 – 75		
#100	0 - 20	0 - 5		
#200	0 - 5	0 - 2.5		

*PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.

SEPTIC SYSTEM DESIGN

THE SEPTIC SYSTEM DESIGN IS BASED ON A PERCOLATION RATE OF 7.3 MIN/IN AND A

THE LEACHING SYSTEM SHALL CONSIST OF ONE, 55 FOOT LONG ROW OF MANTIS 536-8 LEACHING SYSTEM PROVIDING AN EFFECTIVE LEACHING AREA OF 605 SQ. FT.

ELEVATIONS OF THE SEPTIC SYSTEM SHALL BE ADJUSTED IN THE FIELD SO THAT THE BOTTOM OF THE LEACHING SYSTEM IS NOT MORE THAN 12 INCHES BELOW EXISTING GRADE FROM THE HIGHEST EXISTING GROUND ELEVATION MEASURED ALONG THE HIGH SIDE OF THE PROPOSED LEACHING SYSTEM.

MLSS ANALYSIS:

HF = 30 (4.2% SLOPE, 30" TO RESTRICTIVE LAYER)
FF = 1.75 (4 BEDROOM HOUSE)
PF = 1.0 (PERC. RATE 7.3 MIN/INCH)
MLSS REQUIRED = 30 x 1.75 x 1.0 = 52.5 FT

MLSS PROVIDED = 55 FT

THE ENGINEER.

THE PROPOSED TOP OF FOUNDATION (TOP FDN.), BASEMENT FLOOR (BSMT. FLR.), GARAGE FLOOR (GAR. FLR.) AND GRADING SHOWN ON THIS PLAN SHALL BE REVIEWED IN THE FIELD BY THE OWNER, BUILDER AND ARCHITECT PRIOR TO CONSTRUCTION TO INSURE CONFORMANCE TO THE ARCHITECTURAL PLANS AND CONCEPTS. ANY ADJUSTMENTS TO THE PROPOSED ELEVATIONS OR GRADING SHALL BE REVIEWED WITH THE ENGINEER AND THE HEALTH DEPARTMENT TO INSURE PROPER FUNCTION OF THE SEPTIC SYSTEM AND DRAINAGE.

PRIOR TO ANY EXCAVATION OR GRADING ON THE SITE, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BY CONTACTING THE CONNECTICUT UNDERGROUND UTILITY PROTECTION PLAN FOR UTILITY MARK-OUT (TEL.1-800-922-4455)

PRIOR TO THE START OF CONSTRUCTION, STRIPPING OR GRADING, SEDIMENT BARRIERS SHOWN ON THIS PLAN SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS AND DETAILS OUTLINED IN THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION. THE BARRIERS SHALL REMAIN IN PLACE AND BE PROPERLY MAINTAINED UNTIL ALL UPSTREAM AREAS ARE STABILIZED TO THE SATISFACTION OF THE

AT THE REQUEST OF THE ENVIRONMENTAL PLANNER, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO ADDRESS FIELD CONDITIONS.

ALL DISTURBED AREAS WHICH ARE TO BE STABILIZED WITH VEGETATIVE COVER SHALL BE TOPSOILED, FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION.

ALL UNDERGROUND UTILITY (ELECTRIC, TELEPHONE, CATV, ETC.) INSTALLATION SHALL PROVIDE FOR EFFECTIVE EROSION AND SEDIMENTATION CONTROL TO THEIR POINT OF CONNECTION.

INSPECTION BY THE TOWN STAFF IS REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THIS INSPECTION EVALUATES COMPLIANCE TO THE APPROVED PLOT PLAN AND THE PERMANENT STABILIZATION REQUIREMENT. THE BUILDER SHALL NOTIFY THE TOWN UPON COMPLETION OF PERMANENT STABILIZATION.

A CERTIFICATE OF OCCUPANCY SHALL NOT BE ISSUED PRIOR TO ADEQUATE SITE STABILIZATION AS DETERMINED BY TOWN STAFF.

ALL DRIVEWAY SHOULDERS SHOULD BE STABILIZED IMMEDIATELY UPON COMPLETION OF ROUGH GRADING. THE DRIVEWAY ROADBED SHOULD BE STABILIZED WITH COMPACTED GRAVEL OR AGGREGATE AS SOON AS POSSIBLE.

TOPSOIL AND/OR EXCAVATED SUBSOIL SHOULD BE STOCKPILED WITHIN THE AREA OF DISTURBANCE IF NOT USED FOR ON SITE REGRADING. EACH STOCKPILE SHALL BE RINGED WITH SEDIMENT BARRIERS AND STABILIZED AS DIRECTED BY THE ENVIRONMENTAL PLANNER.

LUMBER AND BUILDING MATERIAL STOCKPILES, VEHICLE PARKING AND MOVEMENT SHALL BE CONFINED TO THE AREA OF DISTURBANCE. THE BUILDER SHALL PROVIDE A DUMPSTER FOR STORAGE AND/OR DISPOSAL OF ALL CONSTRUCTION WASTE

THE CONTRACTOR SHALL VERIFY THE FOUNDATION DIMENSIONS AND IMMEDIATELY RESOLVE ANY CONFLICTS WITH

Specified Sand

The Specified Sand envelope around the Mantis units (6" minimum underneath, 6" minimum on the sides, 1" minimum on the top, and 3" in-between the Support Modules) shall meet the requirements as indicated in the Eljen Mantis Specified Sand Requirements chart listed below. This sand is a medium to coarse textured, washed, silica sand with less than 10% passing a #100 sieve and less than 5% passing a #200 sieve based on a wet sieve analysis. If your material falls outside of the specification, contact Eljen's Technical Resource Department at 1-800-444-1359 for a review of the sieve report. Eljen may approve the material under certain conditions to be used for the Specified Sand envelope around the Mantis units.

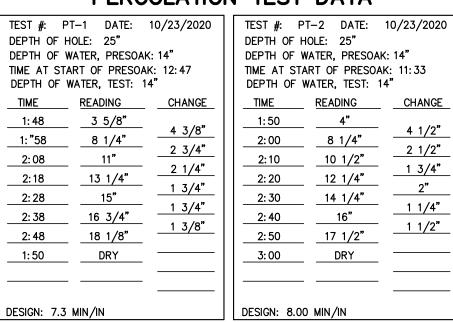
Some material suppliers are manufacturing their Connecticut Select Fill so that it will also meet the requirements of the Eljen Specified Sand Requirements specification, in such cases, that Connecticut Select Fill material can be used for the fill package and the sand envelope around the Mantis units as described above. Ask your material supplier for a sieve analysis to verify that your material meets the required specifications.

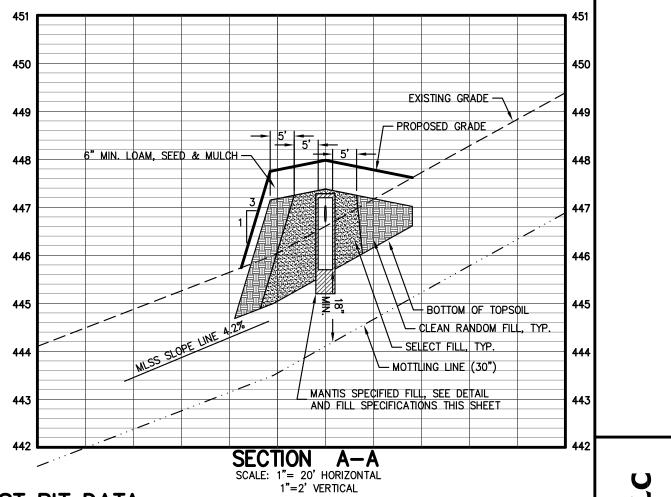
Eljen Mantis								
Specified Sand Requirements								
	Sieve Square	Specification						
Sieve Size	Opening Size	Percent Passing						
	(mm)	(Wet Sieve)						
0.375"	9.5 mm	100.0						
#4	4.75 mm	95.0 – 100.0						
#8	2.36 mm	80.0 – 100.0						
#16	1.18 mm	50.0 – 85.0						
#30	600 µm	25.0 – 60.0						
#50	300 µm	5.0 - 30.0						
#100	150 µm	< 10.0						
#200	75 µm	< 5.0						
Request a sieve analysis from your material supplier to ensure								
that the system sand meets the specification requirements								
listed above.								

Mantis System Installation Guidance

- Carefully lay out the system components and boundaries defining the location and elevation for all trenches and distribution or drop boxes based on the outlet elevation of the septic tank and pipe grades required to maintain flow to each component.
- Prepare the site according to state and local regulations. Do not install a system on frozen or saturated soils. When installing the Mantis in clayey soils, take precautions not to compact the area with heavy machinery.
- 3. Plan all drainage requirements above (up-slope) the system and set soil grades to insure storm water drainage and surface water is diverted away from the absorption area once the system is complete.
- 4. Excavate a minimum forty-eight inch (48") wide level trench.
- 5. Remove all organic soil and roots within the absorption trench area.
- 6. Scarify receiving layers including sidewalls to eliminate soil smearing. Once scarifying is completed, avoid walking over prepared absorption area until 6" minimum of the Specified Sand has been placed on the bottom of the trench.
- 7. Place, compact, and rake a minimum 6" finished level layer of Specified Sand along the trench bottom. Specified Sand must meet the minimum requirements listed on the chart on Page 3 of this manual. Ask your material supplier for a sieve analysis report to verify that the sand you are going to install meets this specification. A hand tamper or a vibratory plate compactor is sufficient for compaction of the Specified Sand layer.
- 8. Place the Mantis units in the trench with the fabric side up.
- 9. Adjust the modules to ensure they are spaced evenly and have not shifted during placement.
- Center the units along the trench length. The remaining units are joined by connecting the Support Distribution Pipe (SDP) to one another. All pipe connections must be primed and glued.
- Install termination caps at the end of the Support Distribution Pipe on each trench line to prevent soil intrusion into the Mantis units.
- 12. Direction changes are accomplished easily and quickly by using a variety of inexpensive off the shelf fittings. 90°, 45°, 22.5°, T, TY, and Y fittings are readily available at most local suppliers.
- 13. Specified Sand filling between and over the units may begin once the units are in the trench. Specified Sand must be placed lightly and may be accomplished with a backhoe or other suitable equipment.
- 14. Steps for placement of Specified Sand.
 - a. Starting at the top center of the Mantis units, use a minimal amount of Specified Sand necessary to set in place the bottom section of the Support Modules at their correct spacing.
 - b. Using a standard 2" x 4" wood stud, tamp and compact the sand that is in-between the Support Modules. Ensure that the void area under the Support Distribution Pipe is filled and
 - c. After the Modules are set in place, cut the plastic straps holding the cardboard supports on
 - the sides of the Mantis units.d. Remove the cardboard supports from the bottom of the Mantis units by sliding them outward
 - and along the bottom of the trench.e. Remove the cardboard supports that are on top of the Mantis units. Remove any remaining
 - plastic straps from the cardboard supports from the trench.
 - f. Additional Specified Sand is lightly added between the Support Modules and along the sides of the Mantis units to bring the sand fill 1-inch above the Support Modules.
 - g. Using a standard 2" x 4" wood stud, continue to moderately tamp and compact the sand that is in-between the Support Modules. Spread additional Specified Sand as necessary.
- 15. Set distribution box to the proper elevation.
- 16. Make the connection to the beginning of the first Mantis row from the distribution box with SDR-35 pipe.
- 17. Install a termination cap or vent piping if required at the distal (far) end of the distribution pipe.
- 18. Venting is optional but required when the system has more than 18" of cover material as measured from the top of the unit to finished grade.
- 19. If required, install a 90° fitting at the distal (far) end of the SDP. Install a section of non-perforated pipe extended above final grade. Plumb to prevent rain water and pest intrusion from entering the system by using two 90° fittings or a mushroom cap fitting as shown in Figure 3 and 6.
- 20. Prior to backfilling the system, provide 1 additional inch of the Specified Sand fill over the top of the units to account for sand settling.
- 21. Complete backfill over the units followed by topsoil to a depth of 10" 18" as measured from the top of the units. 1" of the fill is Specified Sand, immediately on top of the unit. Systems with total cover that exceeds 18" as measured from the top of the units to finished grade shall be vented at the distal (far) end of the system. Backfill material shall be well graded sandy fill; clean, porous, and devoid of large rocks. Divert surface runoff with diversion ditches or berms. Finish grade to prevent surface ponding. Seed or sod excavated areas to protect against erosion. As with all systems, do not drive or pave over the absorption area.

PERCOLATION TEST DATA





TEST PIT DATA

NUMBER: TP-1 DATE: 12/05/2007 NUMBER: TP-2 DATE: 12/05/2007			NUMBER: TP-3	DATE: 12/05/2007	NUMBER: TP-4 DATE: 12/05/2007		
WITNESS: EHHD	LEDGE: @ 21"	WITNESS: EHHD	LEDGE: @ 28"	WITNESS: EHHD	LEDGE: -	WITNESS: EHHD	LEDGE: -
DEPTH: 21"	WATER: –	DEPTH: 28"	WATER: –	DEPTH: 72"	WATER: -	DEPTH: 60"	WATER: -
SOIL PROFILE:	MOTTLING: -	SOIL PROFILE:	MOTTLING: -	SOIL PROFILE:	MOTTLING: @ 20"	SOIL PROFILE:	MOTTLING: @ 32"
					ROOTS: @ 27"		ROOTS: @ 38"
LEDGE @ 21"		LEDGE @ 28"		0-8" TOPSOIL, LEAF LITTER 8"-31" ORANGE BROWN FINE SANDY LOAM 31"-72" COMPACT FILE SAND TILL NO SEEPAGE NO LEDGE		0-7" TOPSOIL 7"-41" ORANGE BROWN FINE SANDY LOAM 41"-60" GREY SAND AND DECOMPOSED ROCK NO SEEPAGE	
WITNESS: EHHD	DATE: 12/05/2007 LEDGE: –	WITNESS: EHHD	DATE: 12/05/2007 LEDGE: –	WITNESS: EHHD	DATE: 12/05/2007 LEDGE: @ 57"	WITNESS: EHHD	DATE: 10/09/2020 LEDGE: –
DEPTH: 66"	WATER: –	DEPTH: 72"	WATER: –	DEPTH: 57"	WATER: –	DEPTH: 60"	WATER: -
SOIL PROFILE:	MOTTLING: @ 30" ROOTS: @ 33"	SOIL PROFILE:	MOTTLING: @ 22" ROOTS: @ 19"	SOIL PROFILE:	MOTTLING: – ROOTS: –	SOIL PROFILE:	MOTTLING: @ 30' ROOTS: @ 30'
0-12" TOPSOIL 12"-33" FINE SANDY LOAM 33"-66" FINE SAND AND DECOMPOSED ROCK NO SEEPAGE 0-9" TOPSOIL, LEAF LITTER 9"-31" ORANGE BROWN FINE SA MOTTLED 31"-72" COMPACT FINE SAND TIL MOTTLED NO SEEPAGE		E BROWN FINE SAND, ED CT FINE SAND TILL ED	0-6" TOPSOIL, LEAF LITTER 6"-32" ORANGE BROWN FINE SANDY LOAM 32"-57" COMPACT FINE SAND TILL LEDGE © 57" LEDGE © WEST END - 34" NO SEEPAGE		SILTY LOAM SILTY SAND		
NUMBER: TP-9 DATE: 10/09/2020 NUMBER: TP-16		DATE: 12/05/2007 NUMBER: TP-17 DATE: 12/05/2007		DATE: 12/05/2007	NUMBER: TP-18 DATE: 12/05/2007		
WITNESS: EHHD	LEDGE: @ 50"	WITNESS: EHHD	LEDGE: @ 42"	WITNESS: EHHD	LEDGE: @ 32"	WITNESS: EHHD	LEDGE: -
DEPTH: 50"	WATER: -	DEPTH: 42"	WATER: –	DEPTH: 32"	WATER: -	DEPTH: 60"	WATER: -
SOIL PROFILE:	MOTTLING: @ 25"	SOIL PROFILE:	MOTTLING: -	SOIL PROFILE:	MOTTLING: -	SOIL PROFILE:	MOTTLING: -
	ROOTS: @ 25"						ROOTS: @ 39"
0-6" TOPSOIL LEDGE @ 42" 6"-25" LT BR SILTY LOAM 25"-50" TAN/GR SILTY SAND COMPACT		LEDGE @ 32"		0-3" TOPSOIL 3"-38" ORANGE BROWN FINE SANDY LOAM 38"-60" COMPACT, SAND TILL			

THE HIDDEN GARDEN AND SO

Glastonbury, CT 06033

SOIL & ENVIRONMENTAL EVALUATIONS • LANDSCAPE DESIGNS • INSTALLATIONS

Job No. 3-08-11 12 March 2008

Dutton Associates, LLC LOCATION: Andover Lake Road, 67 Eastern Boulevard Andover, Connecticut

SOILS AND WETLANDS REPORT

INSPECTION DATE:

MAP PROVIDED:

CONTOUR INTERVAL SHOWN:

SCALE SHOWN:

SOIL MOISTURE CONDITIONS:

PROPERTY LINES IDENTIFIABLE:

NUMBERING OF WETLAND FLAGS:

3/10/08

topographic survey

2 feet

no

moist

ok

I-#10; SEE COMMENTS

This site inspection was conducted to evaluate the presence of inland-wetlands and watercourses. A detailed classification of the soils was not part of this study. Field observations of the wetland and upland soils together with the classification system of the National Cooperative Soil Survey, USDA, and the County Soil Legend were used in this investigation to identify the soil series names.

In conducting field investigations, soil borings are taken from which many important soil properties are observed, as follows: seasonal soil moisture condition OR the presence of free water and its depth, for each horizon in the soil profile, the thickness, color and texture are also observed. The areas shown on soil maps are called soil map units. Some map units consist of one kind of soil while others consist of two or more kinds of soil. A few have little or no soil material at all. The information in this report is based on examination and interpretation of soils with the use of a shovel and/or a hand auger. All observations and conclusions within this report were based on field conditions at the time of investigation and best professional judgment. Field conditions may change over time.

COMMENTS: This property is located along the eastern shore of Andover Lake and is bounded by Andover Lake Road along its east edge. The land is undulating in the area nearest the road and rock outcrops and boulders are noted. The land drops very steeply towards the west where it abuts the lake shore. Rock outcrops are noted throughout this area, and large boulders. There are no poorly drained or very poorly drained soils on this site, nor watercourses except for the lake. Wetland flags were placed along the edge of the lake.

Soils formed in glacial till and descriptions are provided below for your convenience.

NON-WETLAND SOILS

HIGH WATER TABLE:

SOIL TYPE: CHARLTON-HOLLIS
DEPTH TO MOTTLING: NO MOTTLING
DEPTH TO BEDROCK: CHARLTON - >60"; HOLLIS - 10-20"
DEPTH TO SEASONAL

This is a complex of well-drained soils found on gently sloping and sloping, uplands where the relief is affected by the underlying bedrock. Slopes may be either concave or convex. The areas frequently have a rough surface topography with bedrock outcrops and a few narrow intermittent drainageways and small wet depressions. Included with

>6'

and a few narrow intermittent drainageways and small wet depressions. Included with this complex in mapping, are small areas, generally less than 1 acre in size, of moderately well-drained Sutton soils, well-drained Paxton soils and poorly drained Leicester soils. In a few areas the stones and boulders have been cleared. Also included are many small and intermingled areas where the bedrock is 20-40 inches from the surface. During construction, conservation measures are essential to prevent excessive runoff, erosion and

SOIL TYPE: SUTTON
DEPTH TO MOTTLING: 18"
DEPTH TO BEDROCK: >60"
DEPTH TO SEASONAL
HIGH WATER TABLE: 1.5 – 3.5 FEET

A typical profile of this moderately well-drained soil in an undisturbed forested area has a surface layer of very dark grayish-brown fine sandy loam about 3 inches thick. The subsoil is yellowish-brown sandy loam in the upper part but grades to light olive-brown sandy loam in the lower part. Mottles of strong brown, yellowish red, and light brownish gray are common below a depth of 18 inches. The substratum begins at a depth of about 27 inches; it is gray and grayish- brown sandy loam and gravelly sandy loam.

Yours tra

Yours truly,

Cynthia M. Rabinowitz
Soil Scientist and Landscape Designer

SOCIATES, LLC

AND CIVIL ENGINEERS

RN BOULEVARD
CONNECTICUT 06033

11 FAX: 860-633-8851
ONLLC@AOL.COM

LAND SURVEYORS AND CIVIL E

67 EASTERN BOULEVARD

GLASTONBURY, CONNECTICUT O

TEL: 860, 632, 9401, 643, 860, 633



is document is an instrument of profes: rvice, and shall not be used, in whole o

This document is an instrument of profession service, and shall not be used, in whole or i part, for any project other than for which if was created without the express, written consent of DUTTON ASSOCIATES, LLC. Any unauthorized use, reuse, modification or conversion of this document shall be at the user's sole risk without liability or legal exposure to DUTTON ASSOCIATES, LLC.

© 2009 — DUTTON ASSOCIATES, LLC.

436 LAKE ROAD
PREPARED FOR

A & CATHERINE SHE
ANDOVER, CONNECTICUT

REVISIONS: 11/18/2020 - UPDATE 11/20/2020 - UPDATE

DATE: 10-29-2020 SCALE: 1" = 20'

SHEET 2 of 2

A-20-058-P

FILE: 20058.DWG