

LOCATION PLAN  
SCALE 1" = 3000'

Received and approved 4/5/19  
for the Ulster County Health Department

By David Smith 4/5/19  
Public Health Director

Recommended for Approval

David Smith

# SEPTIC SYSTEM PLANS

FOR

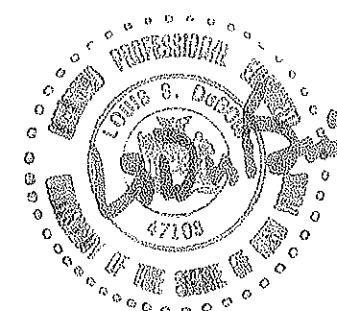
## TOP SEED LANDSCAPE & DESIGN

1939 ROUTE 9W  
MILTON, NEW YORK

103.1-1-18

TOWN OF MARLBOROUGH

ULSTER COUNTY



1		
DATE	3/28/2019	
REVISED		
DRAWING		TITLE
LOUIS S. DUBOIS, P.E. 116 VINEYARD AVENUE HIGHLAND, NEW YORK (845) 691-2247 OFFICE (845) 691-6515 FAX (845) 224-7102 CELL louisdubois@optimum.net		
SCALE	AS SPECIFIED	
DRAWN BY	LSD	
APPROVED	LSD	
PROPOSED SEPTIC SYSTEM TOP SEED LANDSCAPE & DESIGN 1939 ROUTE 9W MILTON, NEW YORK TN OF MARLBORO 103.1-1-18		

ENGINEERING DESIGN REPORT

PROPOSED USE IS A DUPLEX COMMERCIAL BUILDING WITH A SHOP/RETAIL BUSINESS

EACH SIDE WILL HAVE ONE BATHROOM FOR EMPLOYEES. IT IS ESTIMATED THAT THERE WILL BE A MAXIMUM OF THREE EMPLOYEES IN EACH UNIT.

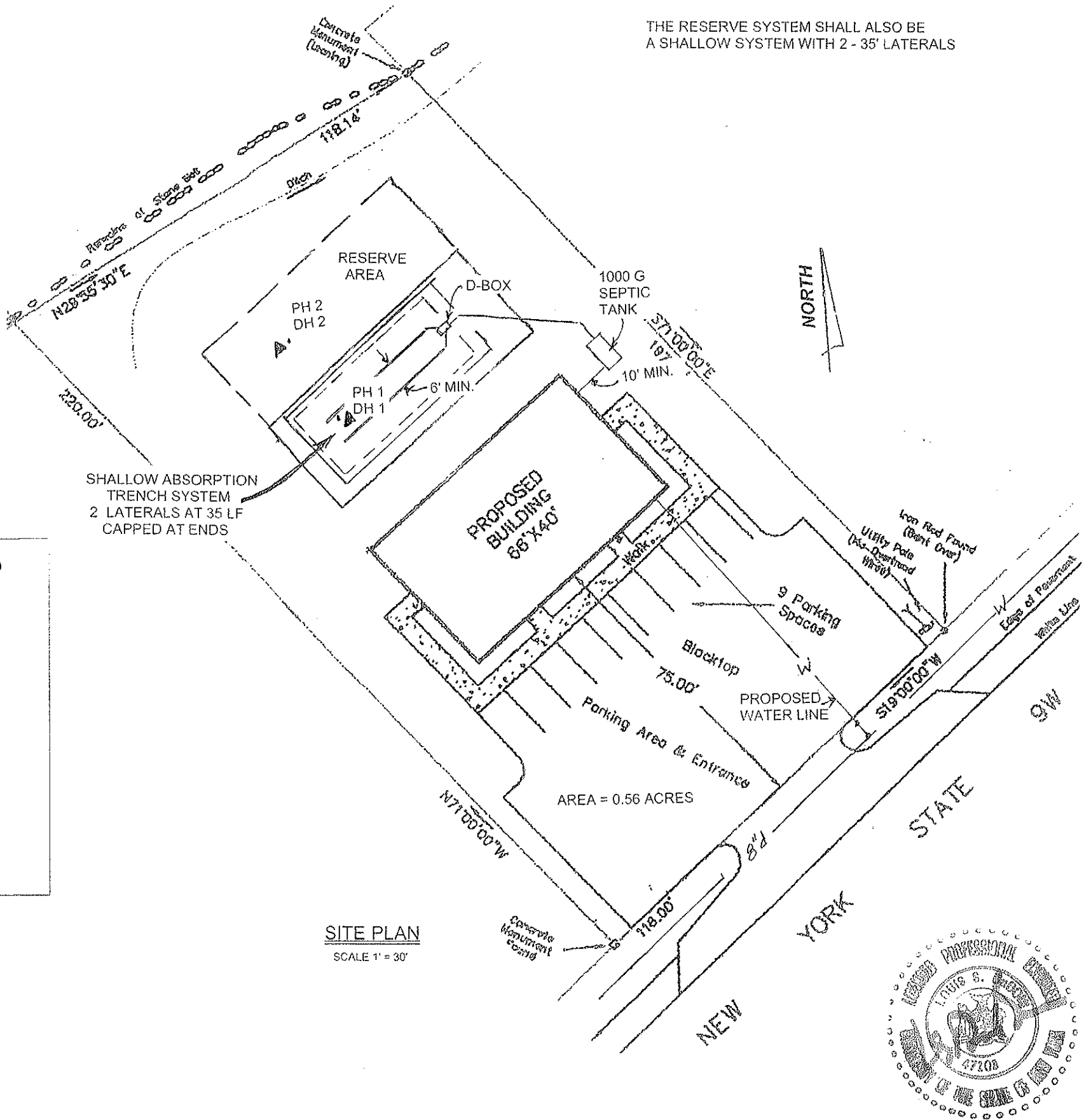
6 Employees @ 15 gpd(80% low flow) = 72 gpd say 100 gpd  
100 gpd/0.9 gpd/sf = 111 SF    111 sf/ 2 lf width = 56 LF lateral  
Design:    2 laterals @ 35 LF            1000 gal septic tank

PERCOLATION TEST RESULTS					3/26/2019
HOLE	DEPTH	SOIL TYPE	SOAKED	TEST RESULT	
PH 1	12"	TOPSOIL-GRAVEL LOAM	YES	STAB @ 8 MIN	
PH 2	12"	TOPSOIL-GRAVEL LOAM	YES	STAB @ 9 MIN	

DEEP HOLE ANALYSIS			3/18/2019
DH 1	5" TOPSOIL	NO BEDROCK	
	5" TO 36" GRAVEL LOAM	WATER AT 46"	
	36" TO 46" MOTTLED CLAY	MOTTLING AT 36"	
DH 2	5" TOPSOIL	NO BEDROCK	
	5" TO 36" GRAVEL LOAM	WATER AT 36"	
		NO MOTTLING	

AN ENGINEER'S CONSTRUCTION CERTIFICATE IS TO BE SUBMITTED TO THE ULSTER COUNTY HEALTH DEPARTMENT PRIOR TO FINAL CONSTRUCTION APPROVAL

BASED UPON THE SOIL INFORMATION, A SHALLOW TRENCH SYSTEM IS DESIGNED BASED UPON AN APPLICATION RATE OF 0.90 GALLON PER DAY PER SQ. FOOT



THE RESERVE SYSTEM SHALL ALSO BE A SHALLOW SYSTEM WITH 2 - 35' LATERALS

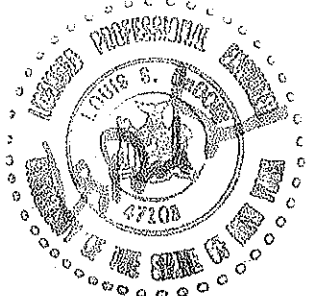
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DATE	3/28/2019
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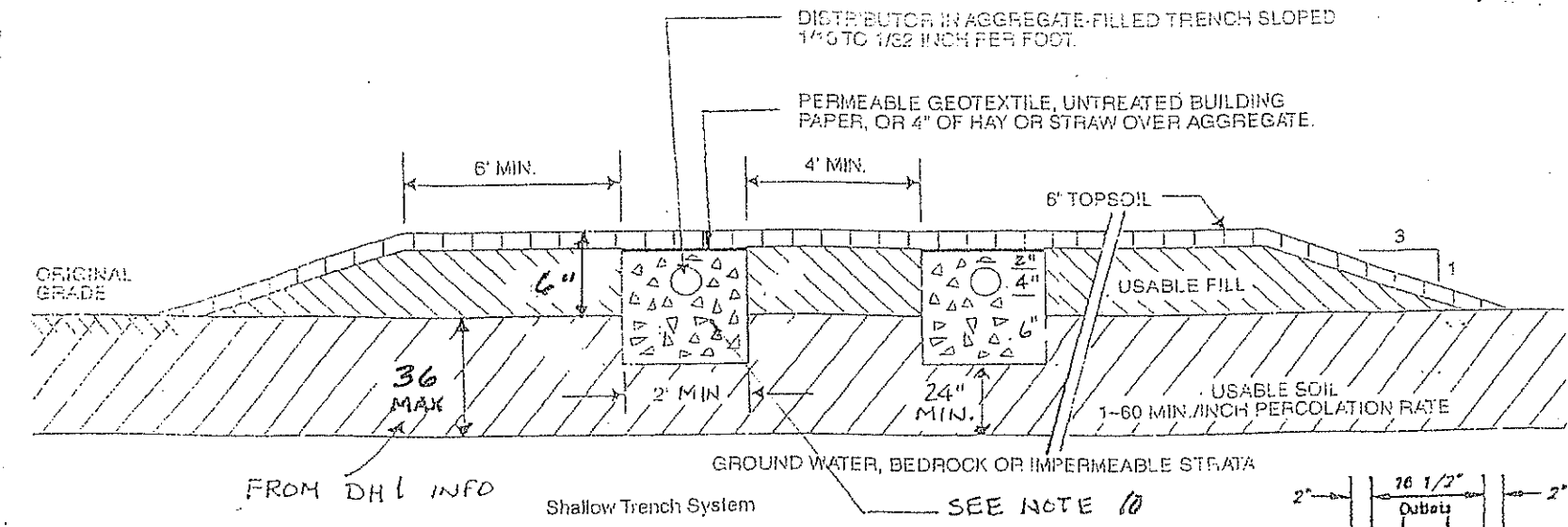
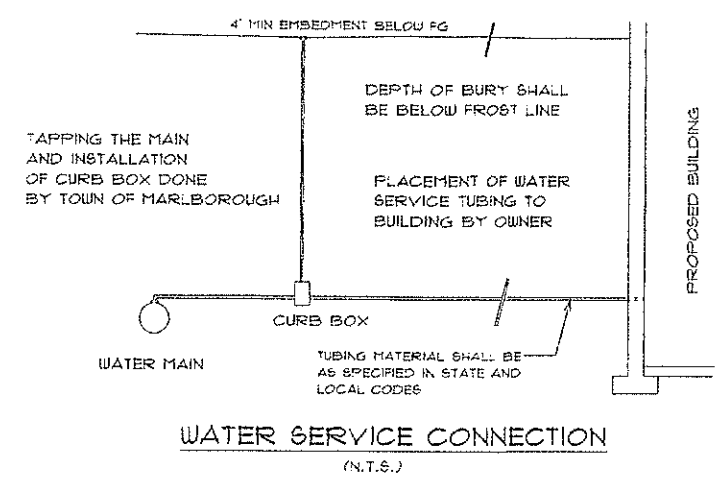
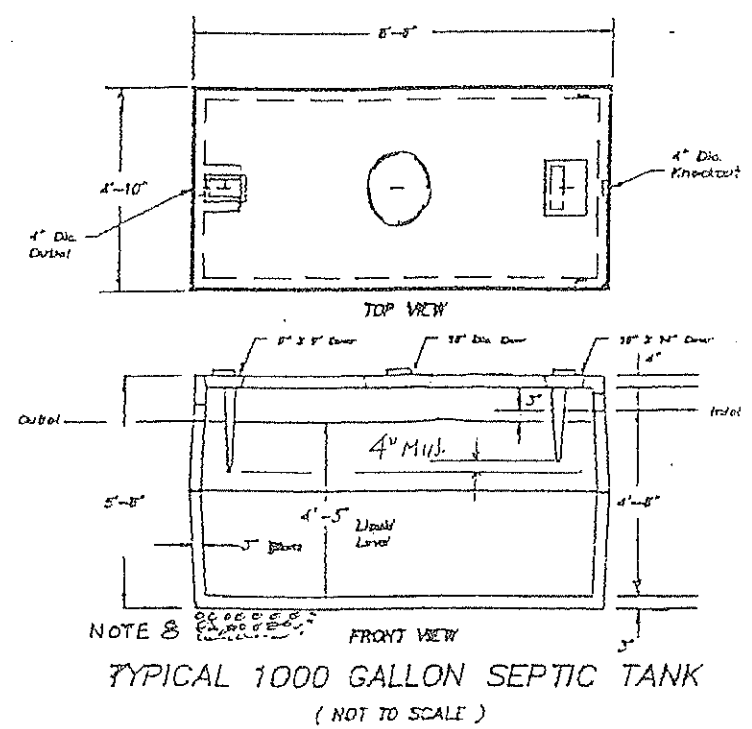
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TOP SEED LANDSCAPE & DESIGN  
1939 ROUTE 9W  
MILTON, NEW YORK  
TN OF MARLBORO 103.1-1-18



SEE FIRST PAGE FOR APPROVAL

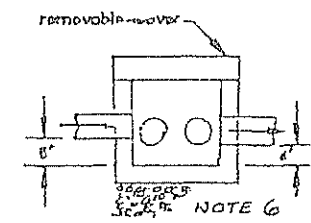
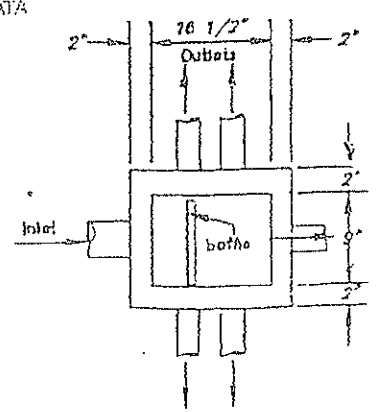
GENERAL NOTES

- 1. No lots shall be subdivided without the approval of the local Planning Board and the Ulster County Department of Health. No more than one single family dwelling per lot.
- 2. No roof, cellar or footing drains to be discharged into the sewage disposal system.
- 3. All trees must be cut within tile field areas.
- 4. No driveways, roadways or parking areas shall be constructed over any portion of the sewage disposal system.
- 5. No component part of any sewage disposal system shall be located or maintained within 100 feet of any spring, reservoir, brook, marsh or any other body of water. No well exists within 100 feet of the proposed sewage disposal system.
- 6. Precast concrete septic tanks are to be used. They are to be bedded with 6" of crushed stone and have the access cover(s) within 12" of final grade.
- 7. The septic line from the house to the septic tank shall be 4" solid PVC, Schedule 40, with a slope of 1/4" per foot minimum.
- 8. The septic line from the septic tank to the distribution box shall be solid 4" PVC, Schedule 40, with a slope of 1/8" per foot minimum, unless a pump is used. Refer to pump detail for pipe sizing & material.
- 9. A distribution box shall be used with tight joint distributors from the box to the perforated pipe lines utilizing speed levelers. Distributions boxes shall be baffled and be bedded with 12" crushed stone or sand.
- 10. Laterals are to be placed on 6 foot centers and the ends capped, unless in a Ulster County fill section or absorption bed system. The trench width is 2 feet. The perforated PVC pipe shall be placed with a maximum slope of 1/16" per foot. The minimum slope is 1/32" per foot. The bottom of the trench shall be level. Washed gravel or crushed stone, 3/4" to 1 1/2" in size, shall be placed 6" below the perforated pipe, around the pipe and 2" above the pipe.
- 11. The installation of low-flow plumbing fixtures is required. Toilets should be 1.6 gpf, faucets and showerheads should be 3.0 gpm max. No basement fixtures are permitted without special sewage design.
- 12. The location of all septic systems and wells must be located as shown on the site plan. The installation and maintenance of residential septic systems shall follow the New York State Department of Health's "Individual Residential Wastewater Treatment Systems", dated 1996 as amended, or for commercial installations, the "Design Standards for Wastewater Treatment Works", issued by the New York State Department of Environmental Conservation, dated 1988.
- 13. All wastewater treatment systems shall be approved and inspected by the Ulster County Department of Health.
- 14. Construction of absorption facilities shall not occur when the ground is frozen or the soil moisture content is high.



NOTES:

- BOTTOM OF ALL TRENCHES SHALL NOT BE ABOVE ORIGINAL USABLE SOIL AND TRENCHES SHOULD BE AT LEAST 6" BELOW ORIGINAL GRADE.
- USABLE FILL SHOULD HAVE A PERCOLATION RATE SIMILAR TO BUT NOT FASTER THAN THE USABLE SOIL PERCOLATION RATE.
- MAXIMUM DEPTH OF USABLE FILL PLUS SIX INCHES OF TOPSOIL SHALL NOT EXCEED 30 INCHES.
- TRENCH BOTTOMS SHALL BE LEVEL. TRENCHES SHALL BE PARALLEL TO GROUND CONTOURS.
- ON SLOPED SITES, A DIVERSION DITCH SHALL BE CONSTRUCTED UPHILL FROM THE FILL TO PREVENT SURFACE RUNOFF FROM ENTERING THE FILL.
- THE FILL SHALL EXTEND AT LEAST SIX FEET BEYOND ENDS OF THE TRENCHES BEFORE STARTING TO RISE TO THE SURFACE OF THE FILL.



TYPICAL 6 HOLE DISTRIBUTION BOX (NOT TO SCALE)



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