SEPTIC SYSTEM NOTES:

1. SEPTIC SYSTEM INSTALLATION IS RESTRICTED TO THE DRY TIME OF THE YEAR OR WHEN THE MOISTURE CONTENT OF THE SOIL IS VERY LOW. THE HEALTH DEPARTMENT AND/OR THE DESIGN ENGINEER WILL MAKE THIS DECISION.

2. THERE SHALL BE NO CONSTRUCTION EQUIPTMENT IN THE AREA OF THE SEPTIC SYSTEM EXCEPT FOR THE MINIMUM REQUIRED FOR THE CONSTRUCTION OF THE SEPTIC SYSTEM.

3. SOIL TESTING BY ALFORD ASSOCIATES, INC.

4. THE DESIGN IS BASED UPON FIELD TESTING BY THOSE LISTED IN NOTE #3 , AND IT IS POSSIBLE THAT CONDITIONS MAY BE FOUND DURING CONSTRUCTION THAT WILL INCREASE THE SYSTEM COST TO THE OWNER.

5. NO SUBSURFACE INVESTIGATIONS WERE MADE OTHER THAN THOSE INDICATED. SUBSURFACE PROBLEMS ARE THE RESPONSIBILITY OF THE OWNER. THE EXACT LOCATION OF ANY UNDERGROUND UTILITIES ARE UNKNOWN AND ARE THE RESPONSIBILITY OF THE OWNER, SHOULD ANY BE ENCOUNTERED DURING THE INSTALLATION OF THE SANITARY SYSTEM.

6. PERCOLATION TEST HOLE AND DEEP PIT LOCATIONS ARE APPROXIMATE ONLY.

7. IF THE INSTALLER FINDS ANY MOTTLING, WATER OR OTHER CONDITIONS, WORSE THAN SHOWN ON THIS PLAN, HE SHALL IMMEDIATELY STOP WORK AND CONTACT THE HEALTH AGENCY AND THE ENGINEER FOR REVISIONS.

8. THIS DESIGN IS SCHEMATIC; ADJUSTMENTS OF LOCATIONS, DIMENSIONS AND ELEVATIONS OF SEPTIC TANK AND LEACHING SYSTEM MAY BE NECESSARY TO CONFORM TO FIELD CONDITIONS. CHANGES IN THE DESIGN SHALL BE APPROVED BY THE HEALTH DEPARTMENT AND/OR THE ENGINEER.

9. MATERIALS USED FOR THE JOB AND CONSTRUCTION PRACTICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF SIMSBURY AND/OR THE CONNECTICUT STATE DEPARTMENT OF HEALTH.

10. IT IS THE RESPONSIBILITY OF THE INSTALLER, (LIC. SEPTIC INSTALLER) TO CONSTRUCT THE FINAL APPROVED PLAN WITHOUT REVISION, UNLESS PRIOR APPROVAL HAS BEEN OBTAINED.

11. THE DEVELOPER OR OWNER OR BOTH SHALL BE RESPONSIBLE FOR ALL RIGHTS OF WAYS AND RIGHTS TO DRAIN.

12. PROVIDE A SWALE, DITCH OR BUILT-UP EMBANKMENT TO DIVERT SURFACE STORM WATER RUNOFF AWAY FROM THE SANITARY SYSTEM.

13. THE GROUND SURFACE OVER THE ENTIRE SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL BE GRADED AND MAINTAINED TO LEAD SURFACE WATER AWAY FROM THE AREA. ALL LEACHING SYSTEMS SHALL BE PROTECTED FROM SILTATION OR EROSION DURING AND AFTER CONSTRUCTION. LEACHING SYSTEMS SHALL BE COVERED WITH A MINIMUM OF TWELVE(12) INCHES OF SOIL AND FINISHED IN A CONDITION WHICH WILL PREVENT EROSION OVER OR ADJACENT TO THE LEACHING SYSTEM.

14. THE SEPTIC SYSTEM IS FOR SANITARY SEWAGE DISPOSAL ONLY. ALL STORM WATER, COOLING WATER, SUBSOIL DRAINAGE AND OBJECTIONABLE INDUSTRIAL WASTES ARE TO BE EXCLUDED FROM THE SYSTEM.

15. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED AS SOON AS POSSIBLE AFTER SYSTEM CONSTRUCTION. ALL AREAS TO BE PROTECTED AGAINST EROSION DURING CONSTRUCTION, USING HALE BALES AS REQUIRED.

16. DO NOT STRIP ANY TOPSOIL OFF THE SITE UNLESS ORDERED BY THE ENGINEER OR INDICATED ON THE PLANS.

17. PROVIDE AN EQUAL AREA FOR FUTURE EXPANSION OF SANITARY SYSTEM AS INDICATED ON PLAN.

PROCEDURE FOR INSPECTION/INSTALLATION OF FILL SYSTEM

1. IN ORDER TO CONSTRUCT A SEPTIC SYSTEM IN FILL, A MIMIMUM OF TWO FEET OF ORIGINAL PERMEABLE SOIL MUST BE PRESENT OVER THE ENTIRE AREA WHERE THE LEACHING FIELD IS TO BE CONSTRUCTED.

2. MEETING WITH SANITARIAN, DESIGN ENGINEER AND LICENSED INSTALLER ON THE SITE TO REVIEW PROCEDURES FOR INSTALLATION AND REVIEW FILL SAMPLES. IF NECESSARY, MEETING IN BORROR PIT TO INSPECT FOR UNIFORMITY OF THE FILL MATERIAL.

3. STUMP AREA, REMOVE TOP LITTER IF REQUIRED.

4. SCARIFY THE AREA UNDER ALL THE FILL WITH A ROTOTILLER OR USE A PLOUGH WHEN REQUIRED. PROCEDURES 3 AND 4 SHOULD NOT BE DONE WHEN THE GROUND IS SATURATED WITH MOISTURE AND SMEARING OCCURS. NO TRUCKS OR OTHER EQUIPMENT WILL BE DRIVEN ON THE AREA TO COMPACT THE SOIL AFTER SCARIFYING OR PLOWING THE SOIL.

5. AFTER THE AREA HAS BEEN CLEARED AND SCARIFIED, THE GRADES SHALL BE SET AND THE SITE SHALL BE CHECKED BY THE SANITARIAN, DESIGN ENGINEER AND LICENSED INSTALLER.

6. SPREAD THE SELECT FILL MATERIAL – START FROM ONE SIDE AND PUSH THE MATERIAL WITH A BULLDOZER ONTO THE SITE. THE FIRST LAYER SHALL BE A 12-INCH LIFT WITH EACH SUCCEEDING LAYER IN 6-INCH LIFTS. THE MATERIAL SHALL BE COMPACTED TO 90% DENSITY OR LEFT TO SETTLE FOR ONE YEAR. FILL SHOULD NOT BE SPREAD IF THE SUBSOIL IS SATURATED OR PUDDLES ARE ON THE SITE.

7. THE SANITARIAN, ENGINEER AND LICENSED INSTALLER SHALL BE PRESENT FOR THE START OF THE FIRST LIFT OR ANY SUBSEQUENT LIFTS WHEN REQUIRED BY THE SANITARIAN.

8. TRUCKS ARE PERMITTED ON THE FILL MATERIAL AFTER THE FIRST TWELVE (12) INCHES OF MATERIAL IS IN PLACE.

9. ALL FILL, INCLUDING THE SIDE FILL AND DOWNHILL BERM, IS TO BE IN PLACE AND COMPACTED PRIOR TO INSTALLATION OF TRENCHES OR BED.

10. TRENCHES OR BED IS TO BE STAKED AND GRADED AFTER WHICH THE SANITARIAN AND ENGINEER WILL CHECK THE FILL PLACEMENT PRIOR TO INSTALLATION OF THE LEACHING SYSTEM.

11. SANITARIAN AND ENGINEER (WHEN REQUIRED) TO CHECK THE LEACHING SYSTEM PRIOR TO FINAL BACKFILLING.

12. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH THE DIMENSION, ELEVATIONS, ETC. TO THE ENGINEER WHO WILL PREPARE AS-BUILT PLANS TO BE SUBMITTED TO THE LOCAL HEALTH DEPARTMENT.

NOTES FOR FILL SEPTIC SYSTEM:

1. FLOW LINES TO BE FIELD ADJUSTED TO MAINTAIN BOTTOM OF SYSTEM 18" MINIMUM ABOVE MOTTLING AND 48" MINIMUM ABOVE ROCK IF REQUIRED.

2. LEACHING TRENCHES TO BE SET LEVEL.

3. SYSTEM IS HIGH LEVEL OVERFLOW DISTRIBUTION.

4. "SELECT FILL" FOR SEPTIC SYSTEMSHALL MEET THE FOLLOWING STANDARDS:
   A. THE FILL SHOULD NOT CONTAIN ANY MATERIAL LARGER THAN 3".
   B. THE FILL SHOULD NOT CONTAIN MORE THAN 45% GRAVEL (GRAVEL FALLS BETWEEN THE NO. 4-3 SIEVES). NO MORE THAN 45% OF THE MATERIAL CAN BE RETAINED ON THE NO. 4 SIEVE.
   C. THE FILL LESS THE GRAVEL SHOULD MEET THE FOLLOWING GRADATION CRITERIA:

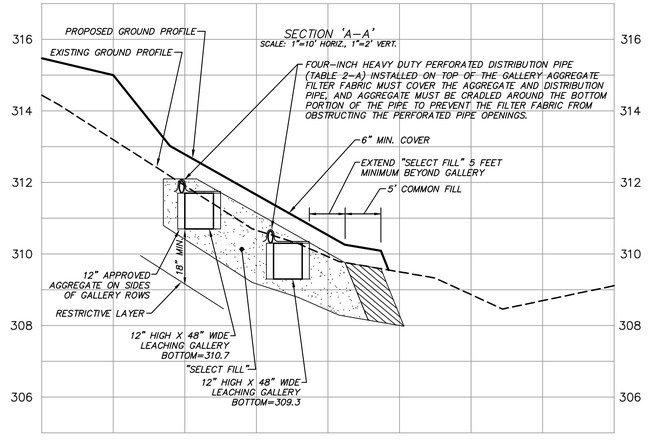
SIEVE	PERCENT PASSING
NO. 4	100
NO. 40	0-50
NO. 100	0-20
NO. 200	0-5

5. THE FIRST LAYER OF "SELECT FILL" SHALL BE A 12" LIFT WITH EACH SUCCEEDING LAYER 6" LIFTS.

6. "SELECT FILL" MATERIAL TO BE COMPACTED TO 90% DENSITY.

7. TRUCK AND EQUIPMENT TRAFFIC SHOULD BE KEPT AT A MINIMUM IN AREA OF SYSTEM ONCE FILL IS IN PLACE.

8. SEE PROCEDURE FOR INSPECTION AND INSTALLATION OF FILL SYSTEM NOTES.



NOTES:

1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THROUGH 20 OF THE REGULATIONS OF THE CONNECTICUT STATE AGENCIES-"MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS AN IMPROVEMENT LOCATION SURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND VERTICAL CLASS T-2.

2. PARCEL AREA = 47,820 SQ.FT. = 1.097 ACRES

3. PROPERTY ZONE: R-40.

4. REFERENCE PLAN:
"BOUNDARY SURVEY PREPARED FOR: JOYCE M. PALMISANO & ERIC W. CHRISTENSEN, #54 WEST MOUNTAIN ROAD, SIMSBURY, CONNECTICUT, SCALE: 1"=20', DATE: 2-22-2019, DUFOUR SURVEYING LLC" TOWN CLERK MAP #4227

5. NO ZONING VIOLATIONS WITH RESPECT TO LOCATION OF PROPOSED FOUNDATION IF ERECTED AS SHOWN.

TEST PIT DATA
JANUARY 9, 2023

TP#1
DEPTH: MATERIAL:
0"- 20" TOPSOIL
20"- 42" BROWN FINE SANDY LOAM
GRAVEL @ 42"
42"- 84" PINKISH BROWN MEDIUM SAND
MOTTLES @ 62"
WATER @ BOTTOM
NO LEDGE

TP#2
DEPTH: MATERIAL:
0"- 12" TOPSOIL
12"- 33" VERY FINE BROWN SANDY LOAM
33"- 66" PINKISH BROWN MEDIUM SAND
MOTTLES @ 33"
WATER SEAPAGE @ 42"
NO LEDGE

TP#3
DEPTH: MATERIAL:
0"- 20" TOPSOIL
15"- 33" VERY FINE BROWN SANDY LOAM
33"-114" PINKISH BROWN MEDIUM SAND
MOTTLES @ 54"
WATER @ BOTTOM
NO LEDGE

PERCOLATION TEST #1
28" HOLE
RATE: 5 MIN./ INCH

DESIGN DATA

NUMBER OF BEDROOMS = 3

SEPTIC TANK SIZE REQUIRED = 1000 GALLON

SEPTIC TANK SIZE PROVIDED = 1250 GALLON

PERCOLATION TEST RATE = < 10 MIN/INCH

EFFECTIVE LEACHING AREA @ 12' CENTER TO CENTER SPACING

USING 12" HIGH x 4' WIDE CONCRETE LEACHING GALLERY WITH DISTRIBUTION PIPE ON TOP OF AGGREGATE = 6.5 SQ.FT./LIN.FT.

S.F. OF EFFECTIVE LEACHING AREA REQUIRED = 495 S.F.

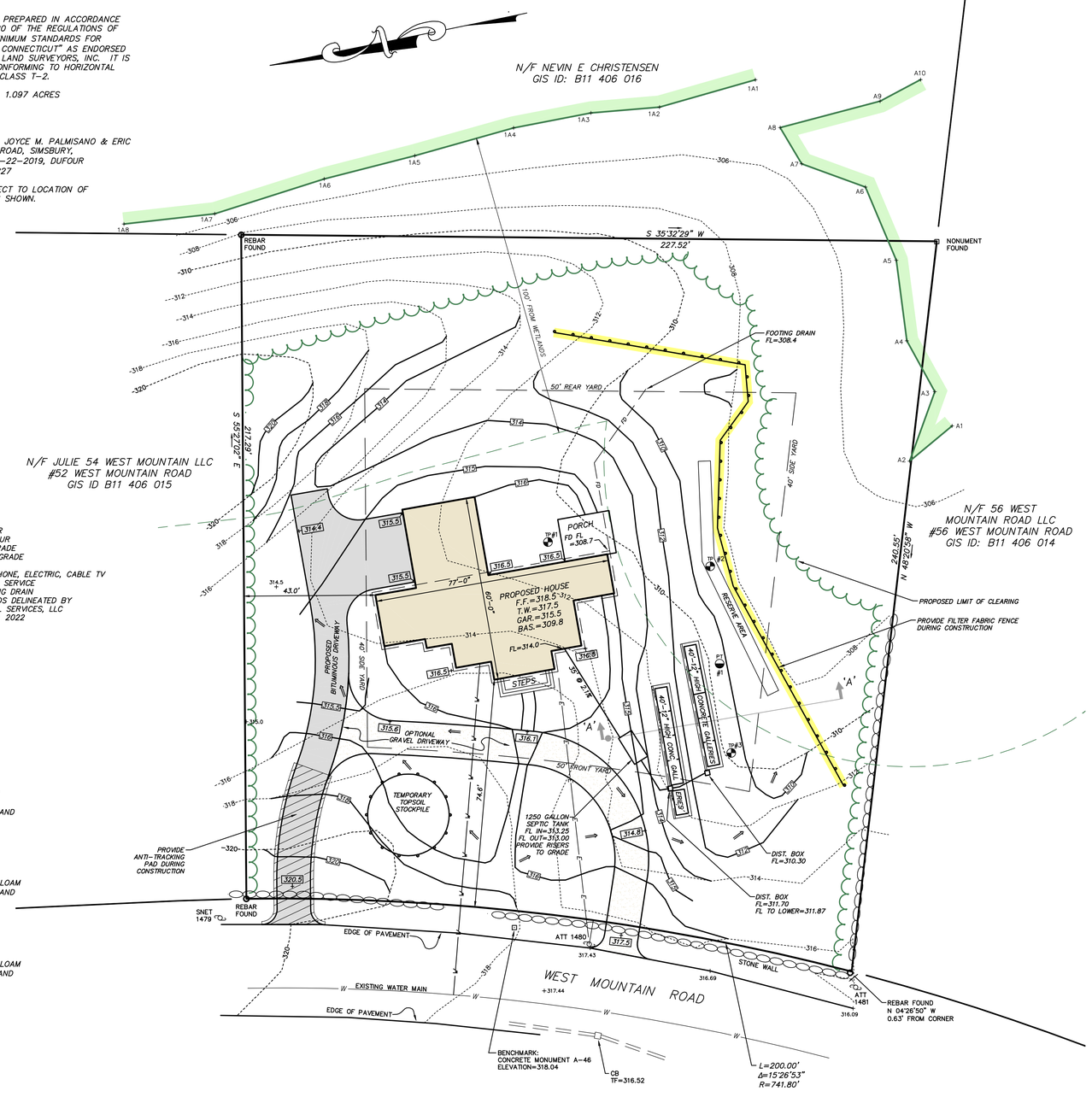
495 S.F. / 6.5 S.F./LF. = 76 LINEAR FT. REQUIRED

80 LINEAR FT. PROVIDED

80 LIN.FT. X 6.5 SF/LF = 520 SF EFFECTIVE LEACHING AREA PROVIDED.

MINIMUM LEACHING SYSTEM SPREAD:

M.L.S.S. = HFxFFxPF
HF = 26 (30.1"-36.0", 6.1-8%)
FF = 1.5 (3 BEDROOM)
PF = 1.0 (PERC RATE = UP TO 10.1 MIN/IN.
26 x 1.5 x 1.0 = 39 FEET MINIMUM



LEGEND:

100	EXISTING CONTOUR
100	PROPOSED CONTOUR
100.0+	EXISTING SPOT GRADE
100.0+ ⟹	PROPOSED SPOT GRADE / GRADE TO DRAIN
C C	PROPOSED TELEPHONE, ELECTRIC, CABLE TV
W W	PROPOSED WATER SERVICE
FD FD	PROPOSED FOOTING DRAIN
A4	LIMIT OF WETLANDS DELINEATED BY REMA ECOLOGICAL SERVICES, LLC ON DECEMBER 10, 2022

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CALL 1-800-922-4455 AND HAVE UTILITIES MARKED ON THE GROUND.

DATE	REVISION

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

L.S. NO. 9344

Alford ASSOCIATES, INC.
CIVIL ENGINEERS
WINDSOR, CONNECTICUT
WILSON M. ALFORD,JR.,P.E.& L.S.
860-688-7288

SCALE: 1 IN. = 20 FT. DATE: JAN. 27, 2023

STATE OF CONNECTICUT WILSON M. ALFORD, JR. No. 9344 LICENSED PROFESSIONAL ENGINEER

STATE OF CONNECTICUT WILSON M. ALFORD, JR. No. 9344 LICENSED LAND SURVEYOR

NOT VALID WITHOUT A LIVE SIGNATURE AND EMBOSSED SEAL

IMPROVEMENT LOCATION SURVEY

PREPARED FOR

RED DOOR CONSTRUCTION

54 WEST MOUNTAIN ROAD SIMSBURY, CONN.

P: R22055 D: R22055PP FOLDER: Case - Simsbury - West Mtn and Sugar Hollow