CONSTRUCTION SEQUENCE

(SANITARY SYSTEM)

1. NOTIFY TOWN HEALTH DEPARTMENT AND THE ENGINEER 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION. NO PORTION OF THE SYSTEM WILL BE COVERED WITHOUT INSPECTION AND APPROVAL BY THE ENGINEER OR THE SANITARIAN.

. PLACE SILT FENCE AS SHOWN ON THE DRAWING AND IN THE DETAIL. REMOVE ALL TREES, STUMPS AND DELETERIOUS MATERIAL FROM SYSTEM AREA.

4. STOCKPILE TOPSOIL FOR REUSE. A. DO NOT STOCKPILE TOPSOIL IN SANITARY SYSTEM AREA.

B. DO NOT REMOVE SUBSOIL.

5. ENGINEER/LAND SURVEYOR SHALL FIELD STAKE THE PROPOSED SYSTEM PRIOR TO INSTALLATION. 6. INSTALL SEPTIC SYSTEM AS SHOWN.

A. IF SOIL CONDITIONS OTHER THAN THOSE SHOWN IN THE SOIL LOGS ARE ENCOUNTERED DURING THE INSTALLATION OF THE SANITARY SYSTEM, THE DESIGN ENGINEER OR THE SANITARIAN SHALL BE NOTIFIED AND THE WORK WILL BE HALTED PENDING REVIEW OF THOSE CONDITIONS. IF NECESSARY THE SANITARY SYSTEM B. A MINIMUM OF 4 FEET MUST BE MAINTAINED BETWEEN THE BOTTOM OF THE SYSTEM AND LEDGE. A

MINIMUM OF 1.5 FEET MUST BE MAINTAINED BETWEEN THE BOTTOM OF THE SYSTEM AND SEASONAL HIGH 7. DO NOT BACKFILL ANY PORTION OF THE SANITARY SYSTEM UNTIL INSPECTED BY THE SANITARIAN AND UNTIL A

"RECORD" SURVEY HAS BEEN COMPLETED. 8. REPLACE TOPSOIL, GRADE, SEED AND MULCH ALL DISTURBED AREAS.

9. MAINTAIN SYNTHETIC FILTER BARRIER UNTIL ALL DISTURBED AREAS ARE STABILIZED.

SANITARY SYSTEM NOTES:

1. NO LARGE CAPACITY TUBS (> 100 GALLON CAPACITY) ARE PLANNED AND WILL NOT BE PERMITTED IN THE PROPOSED

2. NOGARBAGE GRINDER (DISPOSAL) IS PROPOSED

SRW PRODUCTS

3. WATER SUPPLY SHALL BE BY INDIVIDUAL WELL

ALL SOLID PIPING AFTER THE SEPTIC TANK TO BE 4" PVC ASTM D 3034, SDR 35. 5. FILTER FABRIC SHALL BE SELECTED FROM THE FOLLOWING TABLE:

APPROVED FILTER FABRICS FOR COVERING STONE AGGREGATE

MANUFACTURER DESIGNATION NUMBER AMERICAN ENGINEERING FABRICS AEF-480 BRADLEY INDUSTRIAL TEXTILE PHOENIX LIJOMA CARTHAGE MILLS M35 CULTEC 410 ENGINEERED SYNTHETIC PRODUCTS TNS R020 GEO FABRICS GF 150 L&M SUPPLY COMPANY L&M 231 MIRAFI 65304 (4' WIDE), 65303 (3' WIDE) SKAPS GT 120' SRW PRODUCTS DF1 SKAPS INDUSTRIES

SRW PRODUCTS DF2 TERRA TEX S01.5, P01.5 US FABRIC INC. US 1.5 CT

APPROVED SEPTIC TANK EFFLUENT FILTERS

NO DEVIATION FROM THIS PLAN WILL BE ALLOWED WITHOUT THE APPROVAL OF THE ENGINEER AND SANITARIAN. SEPTIC TANK CONSTRUCTION JOINTS SHALL BE SEALED WITH ASPHALT CEMENT. ALL PIPE CONNECTIONS TO THE SEPTIC TANK AND DISTRIBUTION BOXES SHALL BE SEALED WITH A POLYETHYLENE GASKET ("POLY-LOK" OR APPROVED EQUAL) SEPTIC TANK AND BAFFLES SHALL CONFORM TO SECTION V.A.1 TECHNICAL STANDARDS OF THE STATE HEALTH

9. SEPTIC TANK SHALL BE TWO COMPARTMENT TANK WITH HEAVY DUTY STEEL HANDLES FOR MANHOLE ACCESS COVERS AND GAS BAFFLES INSTALLED ON OUTLET PIPING. SEPTIC TANK TO BE EQUIPPED WITH AN APPROVED NON-BY-PASS EFFLUENT FILTER AT THE OUTLET. SEE TABLE BELOW:

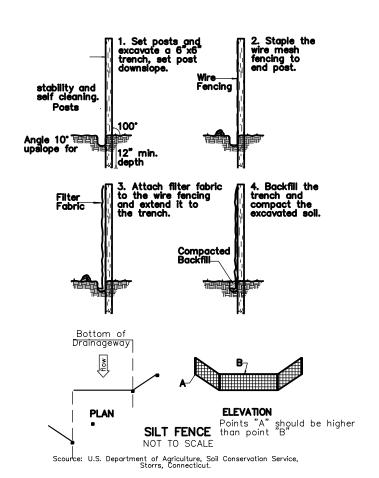
> MANUFACTURER MODEL BEAR ONSITE ML2-416, ML2-920, ML3-910 ML3-916, ML3-925, ML3-932 BIO-MICROBICS Sanitee Series, ST 416, ST 418, ST 818 ST 838, ST 1618, ST 1638 BOWCO INDUSTRIES EF-235 GAG-SIMTECH STF-110, STF-110-7R STF-110-6W, STF-110-8B NORWECO BIO-KINETIC BK2000 ORENCO SYSTEMS FT0444-36 FT0854-36 FT1254-36 FT1554-36 PL-68, PL-122, PL-525, PL-625 POLYLOK GF 10-8, GF 10-16 PREMIER TECH EFT-080 RISSY PLASTICS 45 - CLIK N'STICK EF-4, EF-6 ZABEL A100 A300 A1801 A100-HIP A300-HIP A1800-HIP A1801-HIP A600-12, A600-8 WW1 (170-0078) ZOELLER/CLARUS

10. STONE AGGREGATE MEANS BROKEN STONE, CRUSHED STONE, OR SCREENED GRAVEL MEETING DEPARTMENT OF TRANSPORTATION FORM 816 SPECIFICATION M.01.01 FOR NO. 4 OR NO. 6 STONE (AS SHOWN BELOW OR LATEST SPECIFICATION). STONE AGGREGATE SHALL BE FREE OF SILT, DIRT OR DEBRIS AND SHALL SHOW A LOSS OF ABRASION OF NOT MORE THAN 50 PERCENT USING AASHTO METHOD T-96.

WW4 (5000-0007

NO. 4 STONE AGGREGATE NO. 6 STONE AGGREGATE (A.K.A. 1 & $\frac{1}{4}$ " STONE) (A.K.A. 3/4" STONE) PERCENT PASSING (by weight) PERCENT PASSING (by weight) SIEVE SIZE 1.5 INCH 90-100 N/A 1 INCH 20 - 553/4 INCH N/A 1/2 INCH 20-55 0-15 0-5 0-53/8 INCH

N/A 0 - 3



Test Hole Data Performed by Doane Engineering & Don Mitchell, R.S., Town of Essex 03/04/21

TH 1

0 - 11" Topsoil 11 — 28" Orange brown fine sandy loam 28 - 86" Very fine to medium sand, some gravel

Roots observed to 32" No ledge observed Groundwater observed seeps at 62"

Mottling observed at 32"

TH 2

Topsoil 8 - 28" Orange brown silty fine sandy loam (damp) 28 — 72" Grey fine to medium sand some gravel

Roots observed to 38" No ledge observed No Groundwater observed Mottling observed at 32"

TH 3

0 - 11" Topsoil

11 - 36" Orange brown fine sandy loam 36 — 84" Grey brown fine to medium sand

Roots observed to 53" No ledge observed

Groundwater observed seeps at 53" No Mottling observed

> SANITARY SYSTEM DESIGN PROPOSED 2 BEDROOM HOUSE DESIGN PERCOLATION RATE = 10.1-20.0 MIN/IN REQUIRED EFFECTIVE LEACHING AREA = 500 SF PROVIDE 1-33.33 FT ROW OF SB1-7-72

EFFECTIVE LEACHING AREA PROVIDED 33.33 LF X 15.9 SF/LF = 530 SFPROVIDE 100 PERCENT RESERVE AREA PROVIDE 1,000 GALLON SEPTIC TANK

MINIMUM LEACHING SYSTEM SPREAD (MLSS) DEPTH TO RESTRICTIVE LAYER = 32" SLOPE = 7.3% PERCENT

HF = 26FF = 1.0 (2 BEDROOM HOUSE)PF = 1.25 (10.1-20.0 MIN/IN)

MLSS REQUIRED = $26 \times 1.0 \times 1.25 = 32.5$ LF MLSS PROVIDED = 33.33 LF

15.5"

PERCOLATION TEST

PERFORMED BY DON MITCHELL. RS

TOWN OF ESSEX

3/9/2021

5 1/8 2 1/8

11 5/8 1 1/8 10.3

3/8

7 3/4 2 5/8

9 1/2 1 3/4

10 1/2 1

12 5/8 1

PERCOLATION RATE = 10.1-20.0 MIN/INCH

CHANGE RATE

DEPTH (IN) (MIN/IN)

5.2

4.2

5.1

18.7

D = 17" PRESOAK @ 1:39 PM

DEPTH

13

(IN)

PT 1

2:24

2: 35

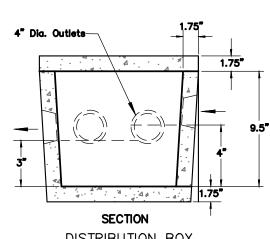
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2:53

3:02

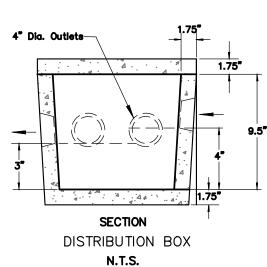
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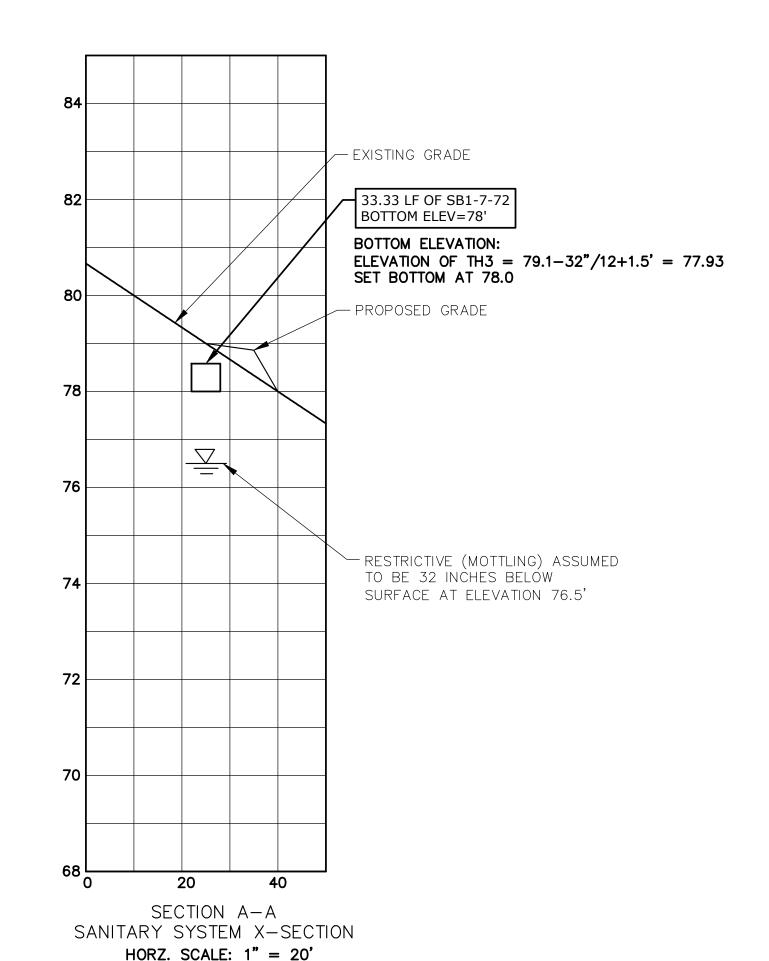
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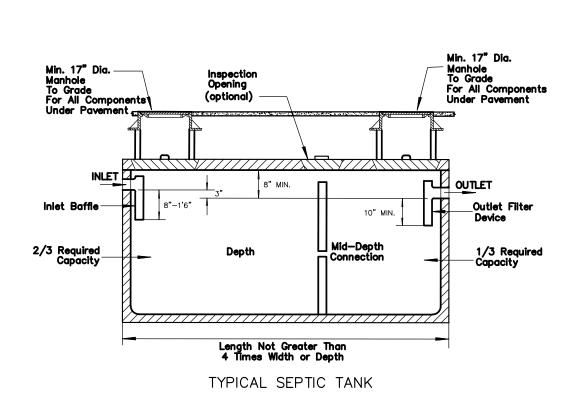


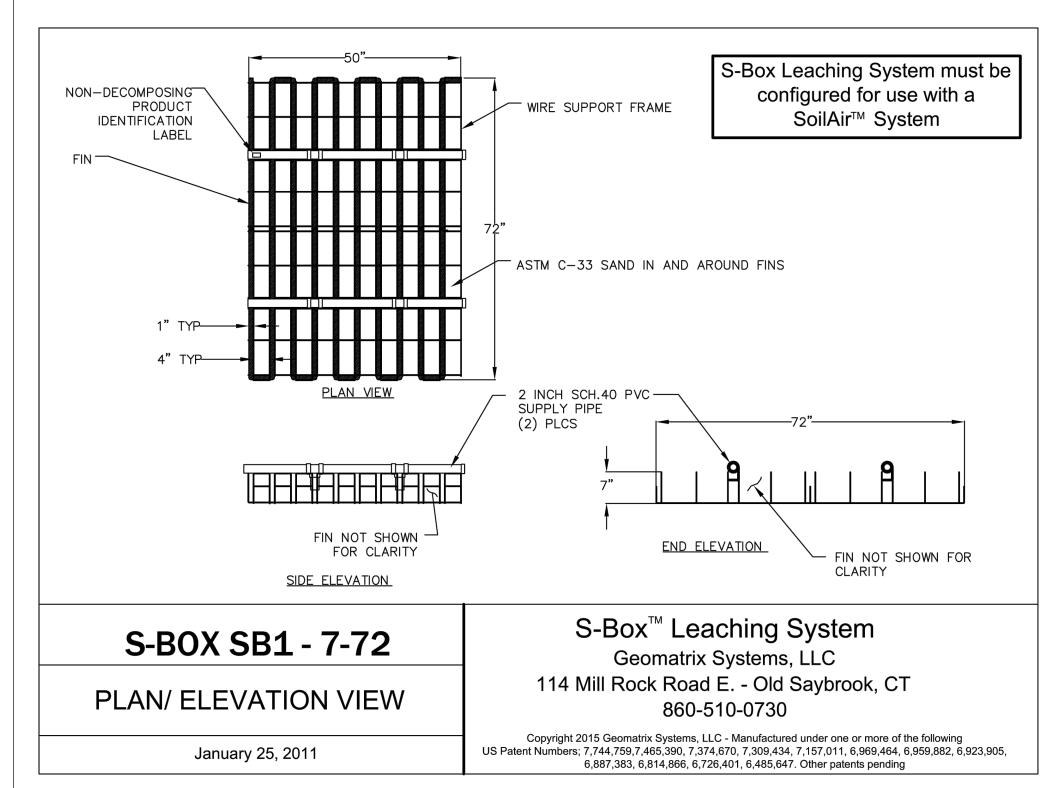
PLAN



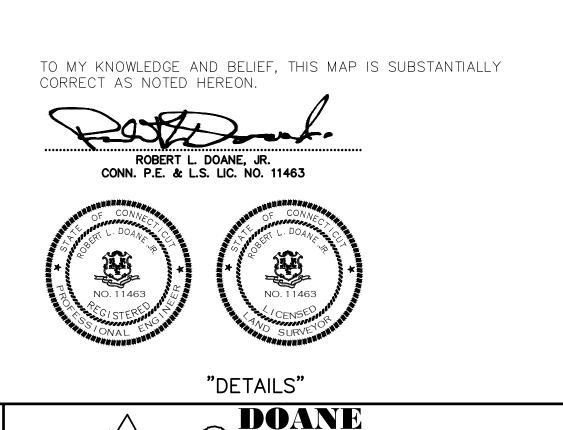








VERT. SCALE: 1" = 2"



8-27-21 REVISED MLSS

8-30-21 REVISED DRIVEWAY LOCATION

ENGINEERING P.O. BOX 113 CENTERBROOK, CONNECTICUT 06409 TEL: (860)767-0138, FAX: (860)767-9104 SITE PLAN PREPARED FOR COLLEEN HUTCHINSON 18 EDGEWOOD AVENUE, IVORYTON, CONNECTICUT SHEET NO .: IDENT. NO.: AS NOTED 08/26/21 2 OF 2