

SEDIMENTATION AND EROSION CONTROL MEASURES

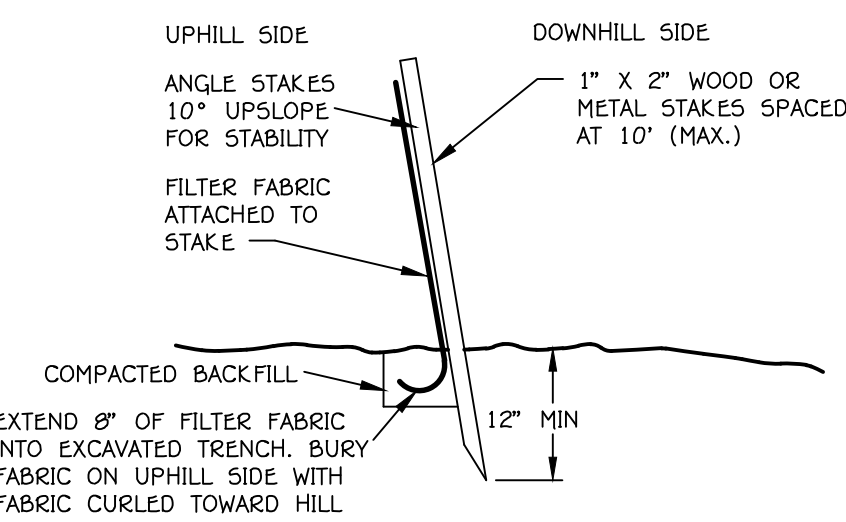
- CLEAR TREES, BRUSH FROM AREA TO BE GRADED.
- INSTALL SILT FENCE EROSION BARRIER (SEE PLAN).
- FILL AND GRADE ONLY THOSE AREAS SHOWN ON PLAN.
- REMOVE ALL STONES, STUMPS, ETC. FROM GRADED AREA, THEN PLACE LOAM TO A DEPTH OF 4" OR MORE.
- DURING SEED BED PREPARATION, APPLY FERTILIZER AT THE RATE OF 7.5 LBS. PER 1000 SQUARE FEET USING 10-10-10 OR EQUIVALENT.
- SEED ALL EXPOSED AREAS WITH THE FOLLOWING SEED MIXTURE:
KENTUCKY BLUEGRASS 2.25 LBS/1000 SQ. FT.
CREEPING RED FESCUE 2.25 LBS/1000 SQ. FT.
PERENNIAL RYEGRASS .50 LBS/1000 SQ. FT.
- AFTER SEEDING, MULCH SHOULD BE APPLIED TO EXPOSED AREAS. STRAW AND HAY MULCHES REQUIRE ANCHORING. THIS MAY BE ACCOMPLISHED BY THE USE OF A MULCHING ANCHORING TOOL, LIQUID MULCH BINDER, OR BY DRIVING TRACKED EQUIPMENT UP AND DOWN THE SLOPE KEEPING THE TRACK CLATS PERPENDICULAR TO THE SLOPE.
- WHERE VEGETATIVE COVER HAS NOT BEEN ESTABLISHED PRIOR TO OCTOBER 30, APPLY JUTE MESH AS PER CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- ALL INSTALLED SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE MAINTAINED UNTIL THE AREA IS ESTABLISHED. INSPECTIONS SHOULD BE MADE AT LEAST ONCE A WEEK AND AFTER EACH RAIN.

CONSTRUCTION NOTES FOR SEPTIC SYSTEM

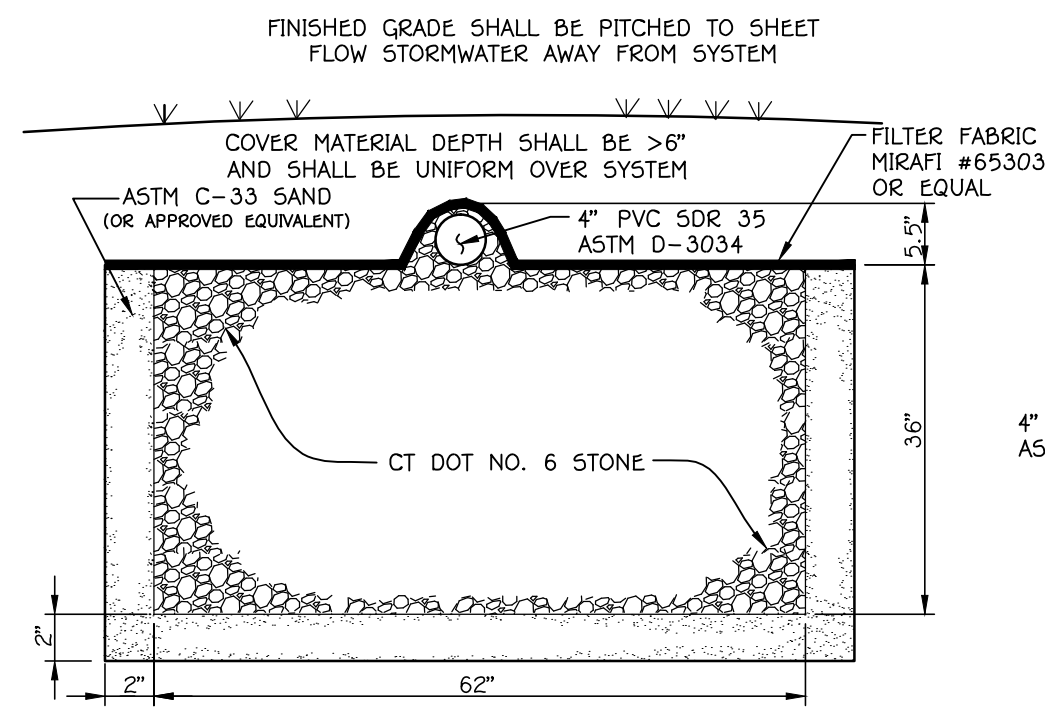
- REMOVE TOPSOIL FROM SYSTEM AREA AND STORE ON-SITE FOR FUTURE USE.
- ENGINEER TO SET A BENCHMARK AND STAKE SEPTIC SYSTEM PRIOR TO CONSTRUCTION. ENGINEER TO AS-BUILT SEPTIC SYSTEM COMPONENTS PRIOR TO BACKFILL AND PRODUCE AN AS-BUILT MAP. CONTRACTOR TO NOTIFY ENGINEER (3) BUSINESS DAYS IN ADVANCE FOR REQUEST TO PERFORM STAKEOUT OR AS-BUILT SURVEYS.
- PRIOR TO FILL PLACEMENT, KEEP HEAVY EQUIPMENT TRAFFIC TO A MINIMUM IN SYSTEM AREA TO AVOID COMPACTION OF SUBSOIL. SCARIFY SUBSOIL WHERE COMPACTED OR IF HEAVY RAIN FALLS DURING CONSTRUCTION WHEN SUBSOIL IS EXPOSED.
- ANY UNSUITABLE MATERIAL ENCOUNTERED BELOW TOPSOIL TO BE REMOVED. AREA TO BE INSPECTED AND APPROVED BY DESIGN ENGINEER AND TOWN SANITARIAN PRIOR TO PLACEMENT OF FILL.
- PLACE APPROVED FILL TO CONTOURS SHOWN IN 6" LIFTS. FILL IN SYSTEM AREA TO BE APPROVED BY TOWN SANITARIAN AND DESIGN ENGINEER, AND CONFORM TO THE FOLLOWING GRADATION DETERMINED BY WASHED SIEVE ANALYSIS:
A. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE #4 SIEVE.
B. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE.
C. THE MATERIAL THAT PASSES THE #4 SIEVE IS THE REWEIGHED AND THE SIEVE ANALYSIS STARTED.
D. THE REMAINING MATERIAL SHALL MEET THE FOLLOWING GRADATION CRITERIA:

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

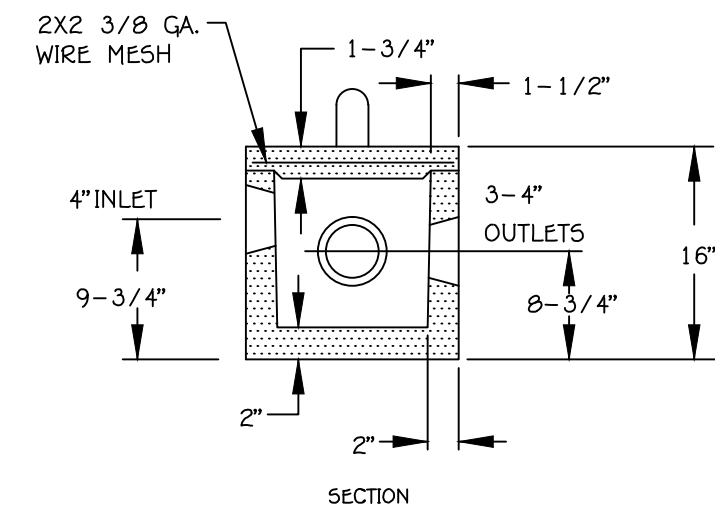
- PERCENT PASSING THE #40 CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.
- EXCAVATE AND INSTALL LEACHFIELD OR GALLERY. LEACHFIELD OR GALLERY MUST BE INSPECTED BY TOWN SANITARIAN BEFORE BACKFILLING.
- AFTER BACKFILLING SYSTEM, GRADE, LOAM AND SEED ALL EXPOSED AREAS IMMEDIATELY. ALL SEEDING MUST BE COMPLETE PRIOR TO SEPTEMBER 15.
- IMPLEMENT STEPS 5-9 OF SEDIMENTATION & EROSION CONTROL MEASURES.
- ALL SEPTIC SYSTEMS ARE ASSUMED TO HAVE NO LARGE CAPACITY TUBS AND GARBAGE DISPOSALS.



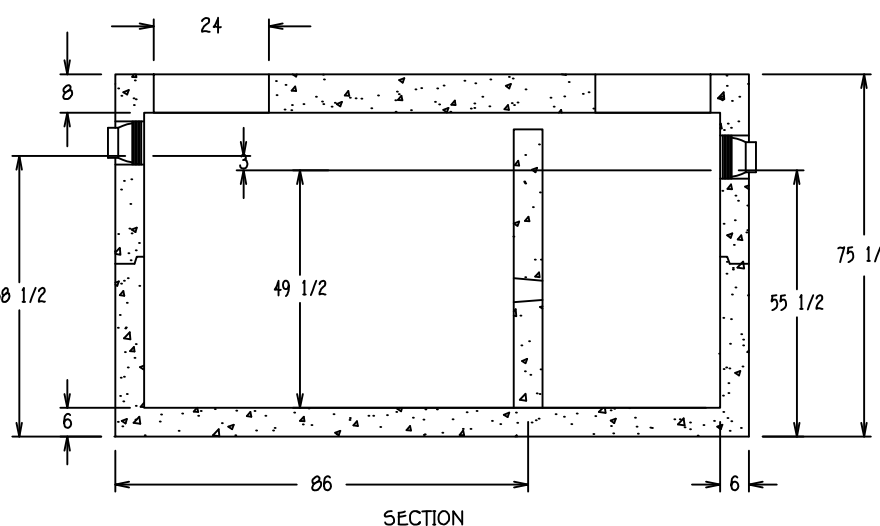
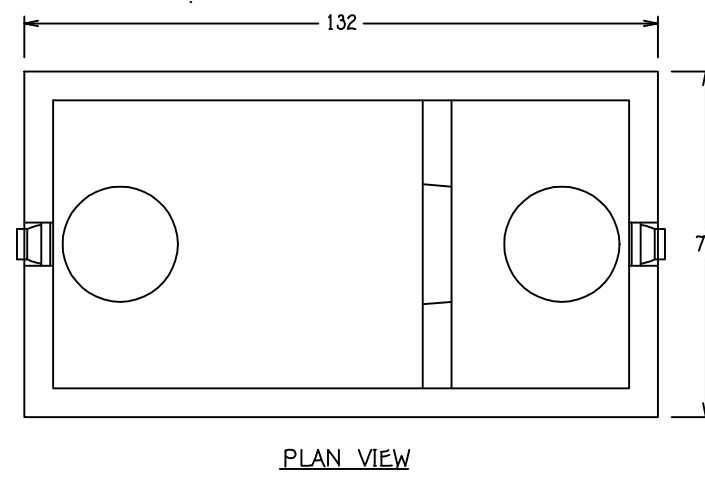
SILT FENCE DETAIL
(NOT TO SCALE)



B-B' CROSS SECTION
GEOMATRIX G5T6236 LEACHING SYSTEM
NOT TO SCALE

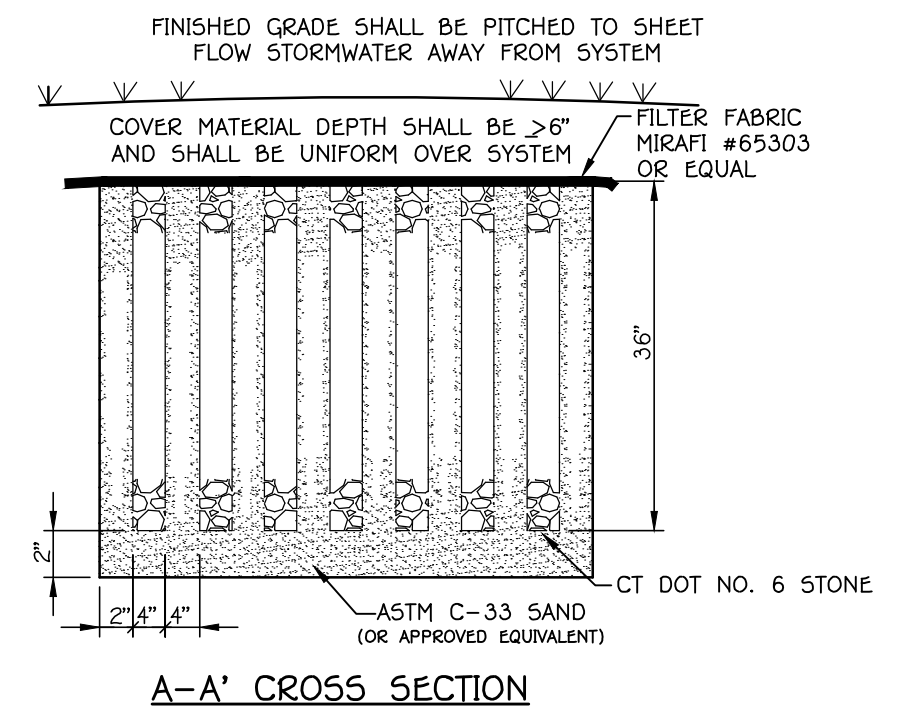
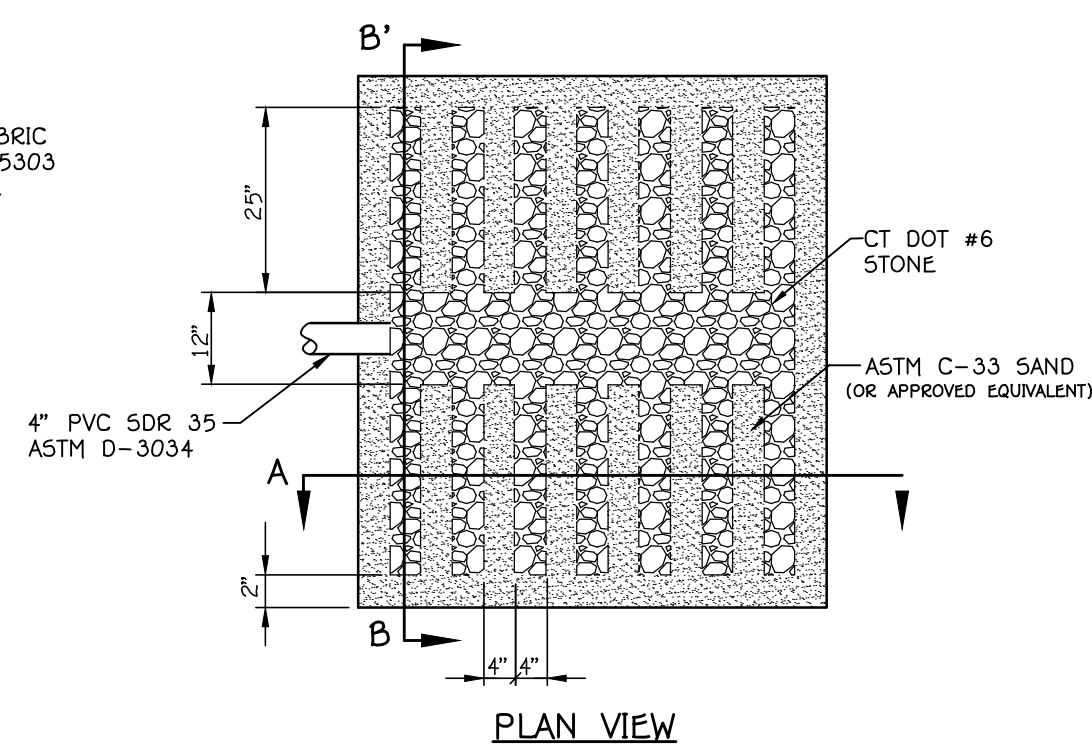


DISTRIBUTION BOX
N.T.S.



- DESIGN NOTES
1) ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT
2) MEETS H-20 WHEEL LOAD
3) CONCRETE STRENGTH 5000 PSI MIN. 28 DAYS

1500 GALLON
TWO COMPARTMENT TANK
N.T.S.



TEST HOLE DATA
DATE: 1/31/23
PRESENT: FERN TREMBLAY (ALMGP5), DON MITCHELL, MARK (SULLIVAN LANDSCAPING)

TEST HOLE 2023-1
9" TOPSOIL
9"-25" BROWN FINE SANDY LOAM
25"-88" ORANGE BROWN FINE TO MEDIUM SAND
88"-96" ORANGE BROWN MEDIUM TO COARSE SAND & GRAVEL
NO WATER, NO MOTTLING, NO LEDGE, ROOTS TO 60"

TEST HOLE 2023-2
0-16" TOPSOIL AND SANDY FILL
16"-30" ORANGE BROWN FINE SANDY LOAM
30"-78" TAN FINE TO MEDIUM SAND
78"-97" REDDISH BROWN MEDIUM TO COARSE SAND AND GRAVEL
NO WATER, NO MOTTLING, NO LEDGE, ROOTS TO 50"

TEST HOLE 2023-3
EAST END 0-28" DARK BROWN SANDY TOPSOIL
WEST END DISTURBED TO 28"
18" DARK BROWN SANDY TOPSOIL
18"-34" ORANGE BROWN FINE LOAMY SAND
34"-92" LIGHT BROWN-TAN MEDIUM SAND
NO WATER, NO MOTTLING, NO LEDGE, ROOTS TO 60"

TEST HOLE 2023-4
0"-9" DARK BROWN SANDY TOPSOIL
9"-54" ORANGE BROWN MEDIUM SAND
54"-88" TAN FINE TO MEDIUM SAND
88"-98" REDDISH BROWN COARSE SAND AND GRAVEL (DAMP)
NO WATER, NO MOTTLING, NO LEDGE, ROOTS TO 51"

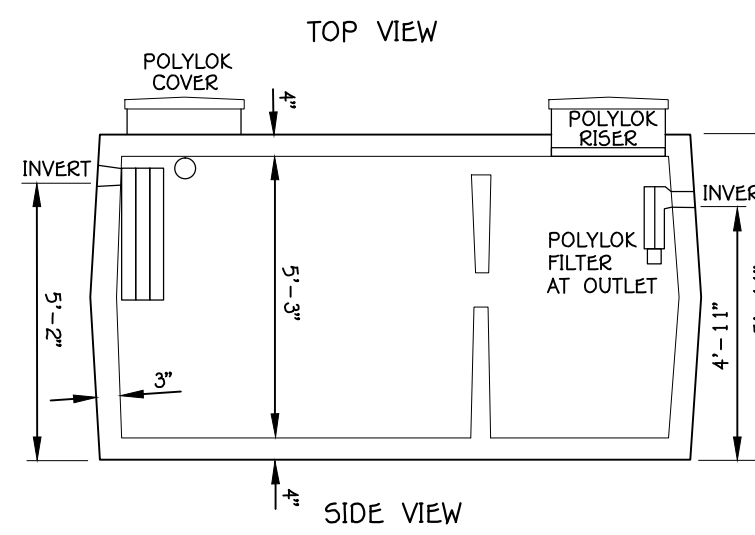
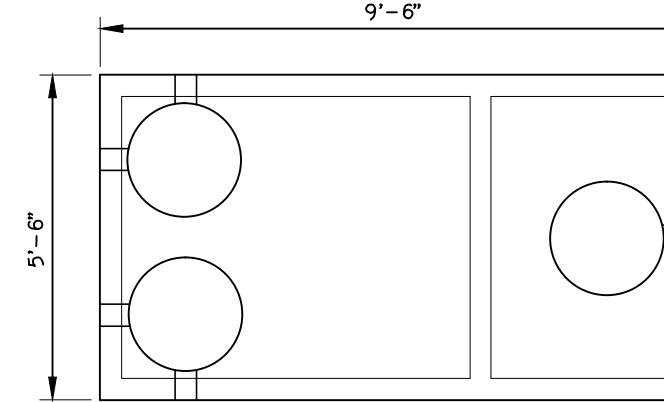
TEST HOLE 2023-5
0-13" TOPSOIL / DARK BROWN SAND
13"-59" ORANGE BROWN FINE TO MEDIUM SAND, SOME GRAVEL (BECOMING TANNISH COLOR WITH DEPTH)
59"-99" BROWN MEDIUM TO COARSE SAND AND GRAVEL
NO WATER, NO MOTTLING, NO LEDGE, ROOTS TO 32"

TEST HOLE 2023-6
0-14" DARK BROWN FINE SANDY FILL
14"-24" ORANGE BROWN MEDIUM SAND FILL
24"-38" DARK BROWN MEDIUM SAND W/ ASH ON TOP
38"-59" ORANGE BROWN FINE TO MEDIUM SAND
59"-96" YELLOW BROWN MEDIUM SAND
NO WATER, NO MOTTLING, NO LEDGE ROOTS TO 58"

TEST HOLE 2023-7
0-20" DARK BROWN SANDY TOPSOIL
20"-42" ORANGE BROWN FINE TO MEDIUM SAND
42"-94" TAN MEDIUM SAND W/ SOME STONES
NO WATER, NO MOTTLING, NO LEDGE, ROOTS TO 72"

TEST HOLE 2023-8
0-12" DARK BROWN SANDY TOPSOIL
12"-48" ORANGE BROWN LOAMY FINE TO MEDIUM SAND
48"-98" LIGHT BROWN FINE TO MEDIUM SAND
NO WATER, NO MOTTLING, NO LEDGE, ROOTS TO 57"

TEST HOLE 2023-9
0-22" DARK BROWN TO ORANGE SANDY FILL
22"-28" TOPSOIL
28"-53" ORANGE BROWN LOAMY FINE TO MEDIUM SAND
53"-94" LIGHT BROWN MEDIUM SAND, SOME STONES
NO WATER, NO MOTTLING, NO LEDGE, ROOTS TO 45"



1.250 GAL REGULAR SEPTIC TANK
NOT TO SCALE

- CONFORMS TO LATEST: ASTM DESIGNATION C1227
NOTES:
1. JOINT SEALANT IS BUTYL RUBBER MASTIC TYPE SEAL THAT CONFORMS TO LATEST ASTHMO SPECIFICATION N-198. MEETS FEDERAL SPECIFICATION 55-5-0021 (210-A).
2. PIPE INLET AND OUTLET LOCATIONS HAVE POLYLOK II PIPE SEALS.
3. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615.
4. REINFORCING STEEL WELDED WIRE FABRIC CONFORM TO LATEST ASTM SPEC. A195.
5. CONCRETE COMPRESSIVE STRENGTH= 4000 PSI AT 28 DAYS.
6. METHOD OF MANUFACTURE: WET CAST
7. SECTIONS ARE MONOLITHIC.
8. APPROX. TANK WEIGHT: 9500 LBS

SEPTIC SYSTEM DESIGN CRITERIA
PARCEL 1
PROPOSED 6 BEDROOM SEPTIC SYSTEM DESIGN
DESIGN PERCOLATION RATE = 1-10.0 MIN/IN.
742.5 SF OF EFFECTIVE LEACHING AREA REQUIRED
PROVIDE 1 RUN OF 30 LF GEOMATRIX G5T 6236
786 SF OF EFFECTIVE LEACHING AREA PROVIDED
1,375 GALLON SEPTIC TANK REQUIRED
1,500 GALLON TANK PROVIDED

ML55 CALCULATION
RESTRICTIVE LAYER= >60" NO ML55 REQUIRED

PARCEL 2 (NO APARTMENTS)
PROPOSED 4 BEDROOM SEPTIC SYSTEM
DESIGN PERCOLATION RATE = 1-10.0 MIN/IN.
577.5 FT OF EFFECTIVE LEACHING AREA REQUIRED
PROVIDE 1 RUN 23 LF OF GEOMATRIX G5T 6236
602.6 LINEAR FEET EFFECTIVE LEACHING AREA PROVIDED
1,125 GALLONS SEPTIC TANK REQUIRED
1,250 GALLON SEPTIC TANK PROVIDED

PARCEL 3 (NO APARTMENTS)
PROPOSED 4 BEDROOM SEPTIC SYSTEM
DESIGN PERCOLATION RATE = 1-10.0 MIN/IN.
577.5 FT OF EFFECTIVE LEACHING AREA REQUIRED
PROVIDE 1 RUN 23 LF OF GEOMATRIX G5T 6236
602.6 LINEAR FEET EFFECTIVE LEACHING AREA PROVIDED
1,125 GALLONS SEPTIC TANK REQUIRED
1,250 GALLON SEPTIC TANK PROVIDED

ML55 CALCULATION
RESTRICTIVE LAYER= >60" NO ML55 REQUIRED

SOIL EROSION AND SEDIMENT CONTROL PLAN

CERTIFIED BY _____ SIGNATURE _____ DATE _____

APPROVED BY THE ESSEX PLANNING COMMISSION

CHAIRMAN/WOMAN DATE APPROVED _____

EXPIRATION DATE PER SECTION 8-26c, CONNECTICUT GENERAL STATUTES _____ DATE _____

APPROVED BY THE ESSEX BOARD OF SELECTMAN

FIRST SELECTMAN DATE _____

APPROVED BY THE ESSEX FIRE MARSHAL

SIGNATURE _____ DATE _____

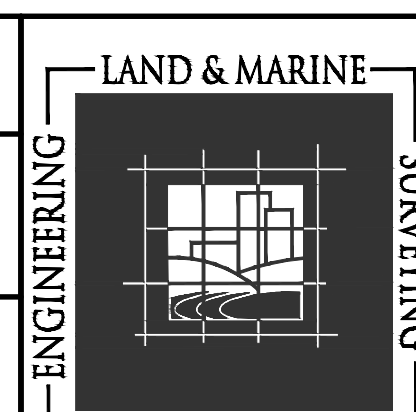
APPROVED BY THE ESSEX TOWN SANITARIAN

SIGNATURE _____ DATE _____

STUART J. FAIRBANK
CONN. P.E. #20206



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"DETAIL SHEET"
SUBDIVISION PLAN
PROPERTY OF
ESSEX HOUSE LLC
63 SOUTH MAIN STREET
ESSEX, CONNECTICUT
DATE: APRIL 4, 2023 SCALE: 1"=20'
DRN MCM CK'D APP'D
SHEET 3 of 3 JOB NO. 236638
REVISIONS: 4-17-23 - LOT AREA REVISIONS