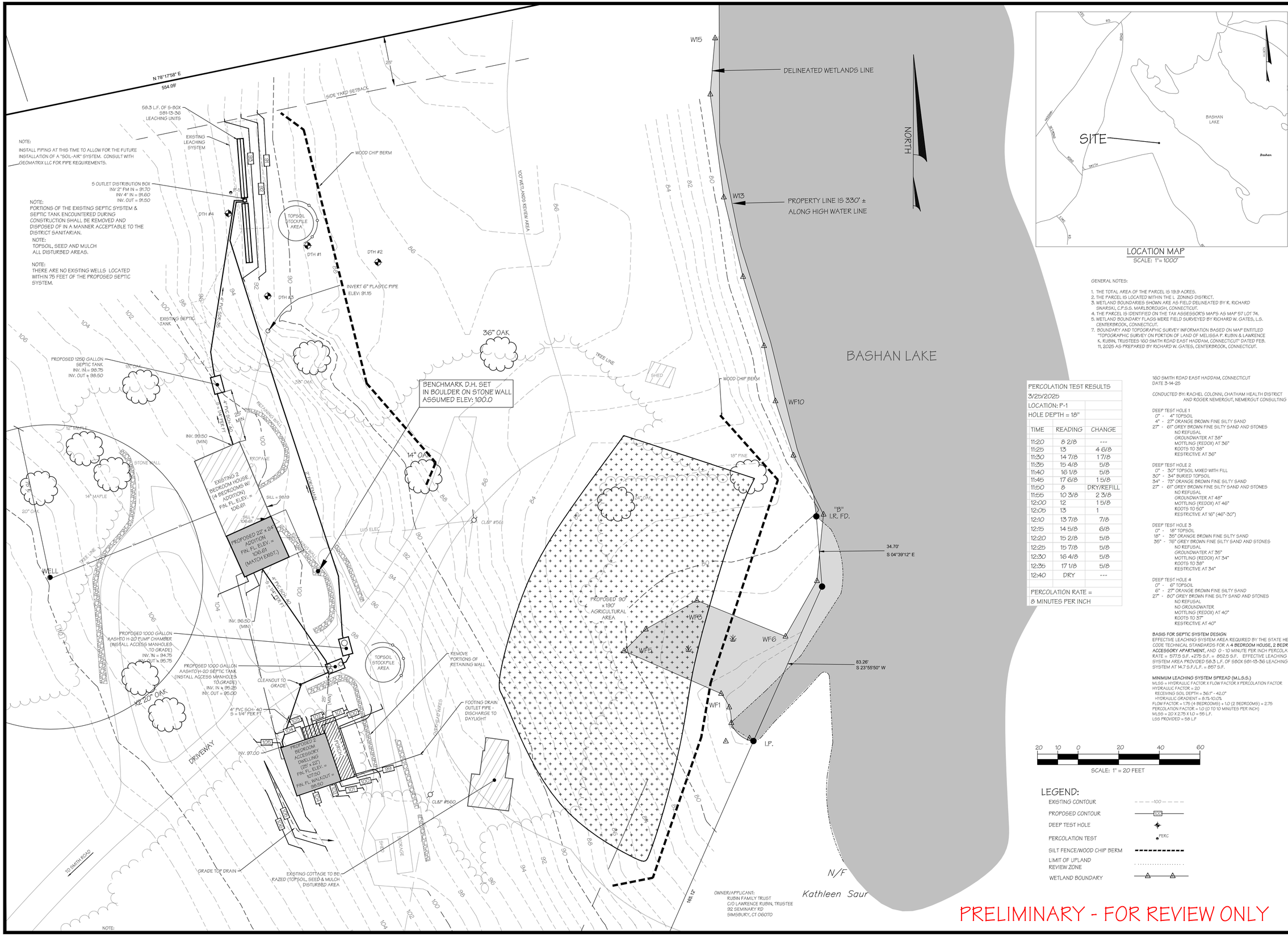


GENERAL NOTES:

1. THE TOTAL AREA OF THE PARCEL IS 19.9 ACRES.
2. THE PARCEL IS LOCATED WITHIN THE L ZONING DISTRICT.
3. WETLAND BOUNDARIES SHOWN ARE AS FIELD DELINEATED BY R. RICHARD SNARSKI, C.P.S.S. MARLBOROUGH, CONNECTICUT.
4. THE PARCEL IS IDENTIFIED ON THE TAX ASSESSOR'S MAPS AS MAP 57 LOT 74.
5. WETLAND BOUNDARY FLAGS WERE FIELD SURVEYED BY RICHARD W. GATES, L.S. CENTERBROOK, CONNECTICUT.
7. BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION BASED ON MAP ENTITLED "TOPOGRAPHIC SURVEY ON PORTION OF LAND OF MELISSA P. RUBIN & LAWRENCE K. RUBIN, TRUSTEES 160 SMITH ROAD EAST HADDAM, CONNECTICUT" DATED FEB. 11, 2025 AS PREPARED BY RICHARD W. GATES, CENTERBROOK, CONNECTICUT.

PERCOLATION TEST RESULTS		
3/25/2025		
LOCATION: P-1		
HOLE DEPTH = 18"		
TIME	READING	CHANGE
11:20	8 2/8	---
11:25	13	4 6/8
11:30	14 7/8	1 7/8
11:35	15 4/8	5/8
11:40	16 1/8	5/8
11:45	17 6/8	1 5/8
11:50	8	DRY/REFILL
11:55	10 3/8	2 3/8
12:00	12	1 5/8
12:05	13	1
12:10	13 7/8	7/8
12:15	14 5/8	6/8
12:20	15 2/8	5/8
12:25	15 7/8	5/8
12:30	16 4/8	5/8
12:35	17 1/8	5/8
12:40	DRY	---
PERCOLATION RATE =		
8 MINUTES PER INCH		

160 SMITH ROAD EAST HADDAM, CONNECTICUT
DATE 3-14-25

CONDUCTED BY: RACHEL COLONNI, CHATHAM HEALTH DISTRICT AND ROGER NEMERGUT, NEMERGUT CONSULTING

DEEP TEST HOLE 1
0" - 4" TOPSOIL
4" - 27" ORANGE BROWN FINE SILTY SAND
27" - 61" GREY BROWN FINE SILTY SAND AND STONES
NO REFUSAL
GROUNDWATER AT 38"
MOTTLING (REDOX) AT 36"
ROOTS TO 38"
RESTRICTIVE AT 36"

DEEP TEST HOLE 2
0" - 30" TOPSOIL MIXED WITH FILL
30" - 34" BURIED TOPSOIL
34" - 73" ORANGE BROWN FINE SILTY SAND
27" - 61" GREY BROWN FINE SILTY SAND AND STONES
NO REFUSAL
GROUNDWATER AT 48"
MOTTLING (REDOX) AT 46"
ROOTS TO 50"
RESTRICTIVE AT 16" (46"-30")

DEEP TEST HOLE 3
0" - 18" TOPSOIL
18" - 35" ORANGE BROWN FINE SILTY SAND
35" - 76" GREY BROWN FINE SILTY SAND AND STONES
NO REFUSAL
GROUNDWATER AT 35"
MOTTLING (REDOX) AT 34"
ROOTS TO 38"
RESTRICTIVE AT 34"

DEEP TEST HOLE 4
0" - 6" TOPSOIL
6" - 27" ORANGE BROWN FINE SILTY SAND
27" - 80" GREY BROWN FINE SILTY SAND AND STONES
NO REFUSAL
NO GROUNDWATER
MOTTLING (REDOX) AT 40"
ROOTS TO 37"
RESTRICTIVE AT 40"

BASIS FOR SEPTIC SYSTEM DESIGN
EFFECTIVE LEACHING SYSTEM AREA REQUIRED BY THE STATE HEALTH CODE TECHNICAL STANDARDS FOR A **4 BEDROOM HOUSE, 2 BEDROOM ACCESSORY APARTMENT,** AND 0 - 10 MINUTE PER INCH PERCOLATION RATE = 577.5 S.F. +275 S.F. = 852.5 S.F. EFFECTIVE LEACHING SYSTEM AREA PROVIDED 58.3 L.F. OF 5BOX 581-13-36 LEACHING SYSTEM AT 14.7 S.F./L.F. = 857 S.F.

MINIMUM LEACHING SYSTEM SPREAD (M.L.S.S.)
MLSS = HYDRAULIC FACTOR X FLOW FACTOR X PERCOLATION FACTOR
HYDRAULIC FACTOR = 20
RECEIVING SOIL DEPTH = 36.1" - 42.0"
HYDRAULIC GRADIENT = 8.1%-10.0%
FLOW FACTOR = 1.75 (4 BEDROOMS) + 1.0 (2 BEDROOMS) = 2.75
PERCOLATION FACTOR = 1.0 (0 TO 10 MINUTES PER INCH)
MLSS = 20 X 2.75 X 1.0 = 55 L.F.
LSS PROVIDED = 58 L.F

20 10 0 20 40 60
SCALE: 1" = 20 FEET

LEGEND:
- EXISTING CONTOUR
- PROPOSED CONTOUR
- DEEP TEST HOLE
- PERCOLATION TEST
- SILT FENCE/WOOD CHIP BERM
- LIMIT OF UPLAND REVIEW ZONE
- WETLAND BOUNDARY

PRELIMINARY - FOR REVIEW ONLY

NEMERGUT CONSULTING
235 ROUTE 80 • P.O. BOX 666
KILLINGWORTH, CONNECTICUT 06419
PHONE: 860.663.2384
NEMERGUTCONSULTING.COM

STATE OF CONNECTICUT ROGER D. NEMERGUT NO. 10008 REGISTERED PROFESSIONAL ENGINEER

ROGER D. NEMERGUT
PROFESSIONAL ENGINEER
LIC. NO. 10008

JASON A. NEMERGUT
PROFESSIONAL ENGINEER
LIC. NO. 26088

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THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS THE DESIGN ENGINEER'S RAISED PROFESSIONAL SEAL APPEARS ON THE PLAN; AND THE OWNER/CONTRACTOR HAS CONTACTED THE DESIGN ENGINEER TO VERIFY THAT THEY ARE IN POSSESSION OF THE LATEST APPROVED DESIGN PLANS.

SITE PLAN & EROSION AND SEDIMENT CONTROL PLAN

MELISSA & LAWRENCE RUBIN
160 SMITH ROAD
EAST HADDAM CONNECTICUT

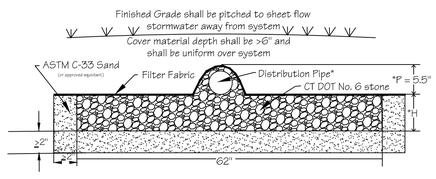
MAP: 57 LOT: 74

DATE: 11-17-25
DESIGNED BY: J.A.N.
CHECKED BY: R.D.N.
SCALE: 1" = 20'

NO.	DATE	REVISIONS

SHEET

1 OF 2



*H= 6" (GST6206)
12" (GST6212)
18" (GST6218)
24" (GST6224)
30" (GST6230)
36" (GST6236)

*P= 5.5"

*5" min. I.D., ASTM D-3034, SDR 35 pipe for gravity applications

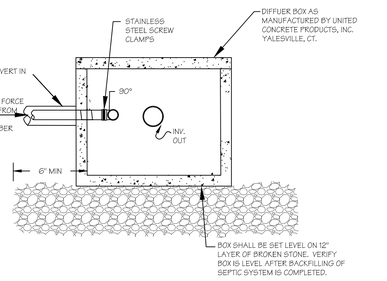
GEOMATRIX CONTACT INFORMATION:
DAVID POTTS (GEOMATRIXLLC.COM)
860-227-0636

GEOMATRIX GST LEACHING SYSTEM

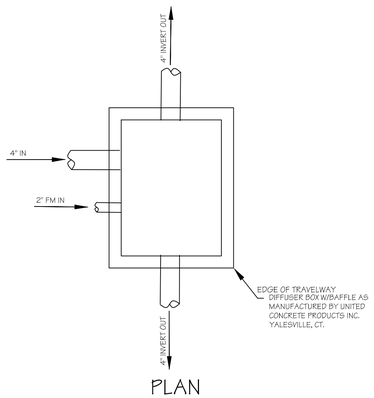
B-B' CROSS SECTION

ASTM C-33 SAND SPECIFICATIONS

SIEVE SIZE	SPECIFICATION PERCENT PASSING DRY SIEVE
0.375"	100.0–100.0
#4	95.0 – 100.0
#8	80.0 – 100.0
#16	50.0 – 85.0
#30	25.0 – 60.0
#50	5.0 – 30.0
#100	< 10.0
#200	< 3.0



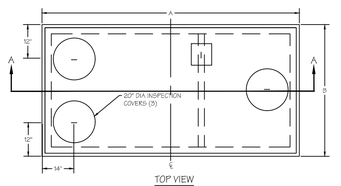
SECTION
NOT TO SCALE



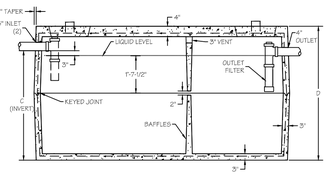
PLAN
NOT TO SCALE

5 OUTLET DISTRIBUTION BOX (W/ GRAVITY & FORCE MAIN)

NOT TO SCALE



TOP VIEW



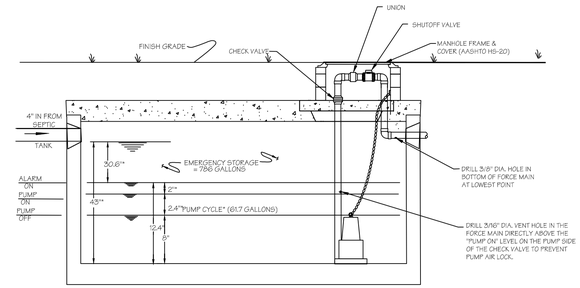
SIDE VIEW
(SECTION A-A)

SEPTIC TANK DETAIL

NOT TO SCALE

SEPTIC TANK SHALL BE 1,000 GALLON AS MANUFACTURED BY UNITED CONCRETE PRODUCTS, INC. YALESVILLE, CT (203-269-3119)

LIQUID CAPACITY	A LENGTH	B WIDTH	C INVERT	D HEIGHT
1000 Gal.	8'-2"	4'-6"	5'-2"	5'-11"
1000 Gal. Low Boy	9'-5 3/4"	5'-5 1/2"	3'-9 1/2"	4'-6"
1250 Gal.	9'-6 1/2"	5'-6 1/2"	4'-7"	5'-5"
1250 Gal. Heavy Duty	10'-1"	7'-7"	3'-5"	4'-7"
1500 Gal.	9'-7"	5'-6 3/4"	5'-5 3/8"	6'-3"
1500 Gal. Heavy Duty	10'-1"	7'-7"	4'-2"	5'-4"



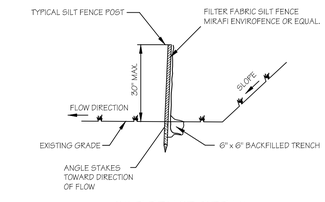
*IF OTHER THAN UNITED CONCRETE PRODUCTS, INC. PUMP CHAMBER IS USED, ADJUST THESE LEVELS ACCORDINGLY

1000 GALLON PUMP CHAMBER

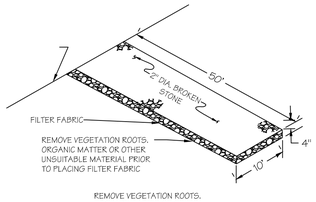
5'-2 2/3" HIGH X 6'-2" WIDE X 8'-5" LONG PRECAST CONCRETE (MONOLITHIC) PUMP CHAMBER WITH BUTYL RUBBER MASTIC TYPE SEAL (AASHTO M-198) AND POLYLOCK II PIPE SEALS AS MANUFACTURED BY UNITED CONCRETE PRODUCTS, INC. YALESVILLE, CT (203-269-3119)

PUMP CHAMBER NOTES:

1. SEPTIC EFFLUENT PUMP SHALL BE SIMPLEX SUBMERSIBLE EFFLUENT PUMP, MODEL WE0312, 1/3 HP, 230 VOLT SINGLE PHASE PUMP AS MANUFACTURED BY GOULD PUMPS INC, SENECA, NEW YORK, OR APPROVED EQUAL.
2. FORCE MAIN SHALL BE 2" DIAMETER P.E. PRESSURE PIPE (ASTM D2239) 100 P.S.I. RATING (UNLESS NOTED OTHERWISE ON THE PLAN). MINIMUM COVER OVER FORCE MAIN SHALL BE 48".
3. MERCURY-FREE LEVEL CONTROL SWITCHES, HIGH LEVEL LIQUID ALARM AND CHECK VALVE SHALL BE AS MANUFACTURED BY GOULD PUMPS, INC. OR APPROVED EQUAL.
4. PUMP ALARM SHALL BE WIRED ON A SEPARATE BRANCH CIRCUIT FROM THE PUMP CIRCUIT. THE PUMP CIRCUIT SHALL BE PROTECTED WITH A GROUND FAULT CIRCUIT INTERRUPTOR (G.F.C.I.). ELECTRICAL WORK RELATING TO PUMP INSTALLATION SHALL REQUIRE A SEPARATE BUILDING (ELECTRICAL) PERMIT.
5. PUMP CHAMBER AND SEPTIC TANK SHALL BE PRECAST. CONCRETE UNITS OF THE SIZE INDICATED ON THE DESIGN PLANS AND SHALL BE TESTED FOR WATER TIGHTNESS OF JOINTS AND OTHER OPENINGS PRIOR TO BACKFILLING.
6. THE MANUFACTURER SHALL SEAL ALL CHAMBERS/TANKS JOINTS WITH A BUTYL JOINT SEALER. PIPE FITTINGS THROUGH THE UNITS SHALL BE RUBBER BOOT PIPE SEALS SECURED WITH STAINLESS STEEL CLAMPS.
7. IT SHALL BE THE INSTALLER'S RESPONSIBILITY TO PROVIDE A WATER TIGHT INSTALLATION TO ENSURE THAT GROUNDWATER INFILTRATION DOES NOT GET PUMPED INTO THE LEACHING SYSTEM.
8. LIMIT DISCHARGE CYCLE VOLUME TO 20% OF THE LEACHING SYSTEM INTERNAL STORAGE CAPACITY = 20% x 25.8 GAL/UNIT x 14 UNITS = 66.6 GAL / CYCLE.

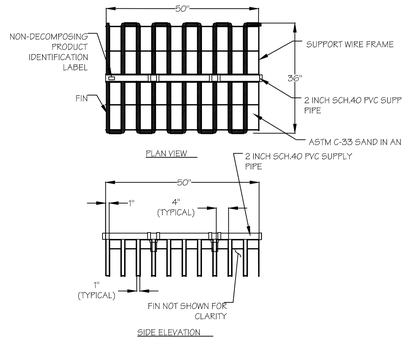


SILT FENCE DETAIL
NOT TO SCALE



REMOVE VEGETATION ROOTS, ORGANIC MATTER OR OTHER UNSUITABLE MATERIAL PRIOR TO PLACING FILTER FABRIC

ANTI-TRACKING PAD
NOT TO SCALE"



S-BOX SB1-13-36 DETAIL
NOT TO SCALE

S-Box Leaching Systems must be configured for use with a SoilAir™ System.

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF THE CONSTRUCTION OF A 2 BEDROOM ACCESSORY DWELLING UNIT, A 22' x 24' ADDITION, AND THE INSTALLATION OF A NEW SEPTIC SYSTEM, ALL OUTSIDE OF THE THE WETLAND UPLAND REVIEW ZONE AS WELL AS THE DEMOLITION OF A 2 BEDROOM COTTAGE AND THE CONSTRUCTION OF A 90' x 190' AGRICULTURAL AREA WITHIN THE UPLAND REVIEW AREA OF A WETLAND.

DESCRIPTION OF EXISTING SITE CONDITIONS:

THE PARCEL IS A 19.8 ACRE LOT. LOCATED ON THE EAST SIDE OF SMITH ROAD AND ON THE WEST SIDE OF BASHAN LAKE. THE INLAND WETLAND AREA IS ASSOCIATED WITH BASHAN LAKE.

CONSTRUCTION SCHEDULE:

CONSTRUCTION WOULD COMMENCE LATER THIS YEAR (DEPENDING ON THE DATE OF FINAL PLAN APPROVALS) AND BE COMPLETED BY THE SPRING OF 2026.

RECOMMENDED SEQUENCE OF CONSTRUCTION

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE APPROVED SITE PLAN.
2. THE CONTRACTOR SHALL NOTIFY THE LAND USE ADMINISTRATOR AFTER THE EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
3. COMMENCE CLEARING AND GRUBBING OPERATIONS AND STOCKPILE TOPSOIL. STUMPS ARE TO BE DISPOSED OF OFF SITE.
4. DEMOLITION OF EXISTING COTTAGE.
5. CONSTRUCTION OF THE BUILDING ADDITION, ACCESSORY DWELLING UNIT, SEPTIC SYSTEM AND ASSOCIATED UTILITIES.
6. CLEAR AND GRUB AGRICULTURAL AREA.
7. TOPSOIL SEED AND MULCH DISTURBED.
8. REMOVE EROSION CONTROL MEASURES IMMEDIATELY AFTER A PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED ON DISTURBED AREAS.

DESIGN CRITERIA AND CONSTRUCTION DETAILS:

SEE THIS SHEET FOR CONSTRUCTION DETAILS.

WOOD CHIP BERMS ARE TO BE USED TO INTERCEPT AND CONTAIN SOIL EROSION RESULTING FROM SURFACE RUNOFF OVER TEMPORARILY DISTURBED AREAS.

ANTI-TRACKING PAD (BROKEN STONE WHEEL CLEANER) IS TO BE INSTALLED AT TEMPORARY CONSTRUCTION ENTRANCE TO SHAKE SILT OFF OF CONSTRUCTION VEHICLE TIRES AND MINIMIZE THE AMOUNT OF SILT TRACKED ONTO THE TOWN ROAD.

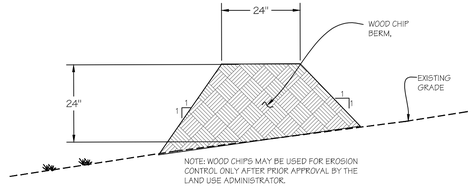
MAINTENANCE PROGRAM:
WOOD CHIP BERMS ARE TO BE INSPECTED WEEKLY AND IMMEDIATELY AFTER A RAINFALL EVENT OF 1" OR MORE IN A 24 HOUR PERIOD AND DURING A MAJOR STORM EVENT. (A MAJOR STORM EVENT IS DEFINED AS A STORM PREDICTED BY THE NATIONAL OFFICE OF ATMOSPHERIC ADMINISTRATION WEATHER SERVICE WITH WARNINGS OF FLOODING, SEVERE THUNDERSTORMS, OR SIMILARLY SEVERE WEATHER CONDITIONS.
REPAIR OR REPLACE SILT FENCE/WOOD CHIP BERMS AS NECESSARY. CLEAN ACCUMULATED SILT AWAY FROM SILT FENCE/WOOD CHIP BERMS WHEN A DEPTH OF 6" IS REACHED OR AS NECESSARY TO MAINTAIN STRUCTURAL INTEGRITY AND EFFECTIVENESS.

ANTI - TRACKING PAD SHALL BE INSPECTED DAILY AND RENEWED WITH ADDITIONAL LAYERS OF BROKEN STONE AS REQUIRED TO MAINTAIN ITS EFFECTIVENESS.

THE PERSON RESPONSIBLE FOR OVERSEEING AND MONITORING OF THE EROSION AND SEDIMENT CONTROL MEASURES IS THE OWNER, LAWRENCE RUBIN, 860-983-9511.

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THESE DRAWINGS AND CONDITIONS OF THE EAST HADDAM PLANNING AND ZONING COMMISSION.
2. WORK RELATING TO EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE DETAILS AND CONSTRUCTION METHODS ON THESE DRAWINGS AND AS OUTLINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.
3. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF EXCAVATION OR FILL OPERATIONS IN UPHILL AREAS.
4. ALL WORK DISTURBED BY CONSTRUCTION SHALL BE TOPSOILED (6" MINIMUM DEPTH), SEEDED AND MULCHED AS SOON AS PRACTICABLE AFTER THE COMPLETION OF CONSTRUCTION IN THAT AREA. NATURAL VEGETATION IN UNDISTURBED AREAS SHALL BE RETAINED AND PROTECTED.
5. ALL SLOPES IN CUT AND FILL AREAS SHALL BE 2H:1V MAXIMUM UNLESS NOTED OTHERWISE ON THE PLAN.
6. EROSION AND SEDIMENT CONTROL DEVICES SHALL NOT BE REMOVED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED ON UPHILL AREAS.
7. RECOMMENDED SEED MIXTURE ON DISTURBED AREAS (UNLESS NOTED OTHERWISE ON THE SITE PLAN) SHALL BE: CREEPING RED FESCUE (PENN LAWN, WINTERGREEN) - 1.90 LBS PER 1000 S.F.; S.F.) ; REDTOP (STREEKER, COMMON) - 0.20 LBS.PER 1,000 S.F. ; AND TALL FESCUE (KENTUCKY 31) OR SMOOTH BROMEGRASS (SARATOGA, LINCOLN) - 1.90 LBS. PER 1,000 S.F.. RECOMMENDED SEEDING DATES ARE MARCH 15 THROUGH JUNE 15 AND AUGUST 15 THROUGH OCTOBER 15. USE HAY MULCH ON ALL SEEDED AREAS FOR MOISTURE RETENTION.
8. DISTURBED AREAS SHALL NOT BE SEEDED OUTSIDE OF THE RECOMMENDED SEEDING DATES, BUT SHALL BE TEMPORARILY STABILIZED WITH HAY MULCH UNTIL A PERMANENT SEEDING DURING RECOMMENDED SEEDING DATES CAN TAKE PLACE.
9. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED PERIODICALLY, PARTICULARLY AFTER A RAINFALL EVENT, AND REPAIRED, MAINTAINED BY THE APPLICANT AS REQUIRED,
10. LIME AND FERTILIZER APPLICATION RATES SHALL BE BASED UPON THE RESULTS OF SOIL SAMPLE TESTS PERFORMED BY THE APPLICANT.
11. MINIMUM TOPSOIL DEPTH IN AREAS TO BE SEEDED SHALL BE 6".



NOTE: WOOD CHIPS MAY BE USED FOR EROSION CONTROL ONLY AFTER PRIOR APPROVAL BY THE LAND USE ADMINISTRATOR.

WOOD CHIP BERM DETAIL
NOT TO SCALE

GENERAL NOTES:

1. PROPOSED CONSTRUCTION SHALL CONFORM TO THE 2024 STATE OF CONNECTICUT PUBLIC HEALTH CODE AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL AS AMENDED.
2. ELEVATIONS AND CONTOURS ARE BASED ON AN ASSUMED DATUM.
3. ELEVATIONS SHOWN REFER TO THE INVERT (FLOW LINE) OF THE PROPOSED LEACHING SYSTEM UNLESS NOTED OTHERWISE.
4. PERCOLATION RATE FOR DESIGN = 0 - 10 MINUTES PER INCH.
5. THE MINIMUM DISTANCE FROM WELL TO SEPTIC IS 75 FEET.
6. LEACHING SYSTEM AREA SHALL BE LIMED, FERTILIZED, SEEDED AND MULCHED UPON COMPLETION OF THE PROJECT.
7. SEPTIC TANK CONSTRUCTION, JOINTS SHALL BE SEALED WITH ASPHALT CEMENT. ALL PIPE CONNECTIONS TO THE SEPTIC TANK AND AND DISTRIBUTION BOXES SHALL BE SEALED WITH A POLYETHYLENE GASKET "POLY-LOK" OR APPROVED EQUAL.
8. SEPTIC TANK BAFFLES SHALL CONFORM TO SECTION VA-1 TECHNICAL STANDARDS OF THE STATE HEALTH CODE.
9. IF FIELD CONDITIONS, (LEDGE, GROUNDWATER, MOTTLING) ARE ENCOUNTERED AT AT SHALLOWER DEPTHS THAN SHOWN IN THE DEEP TEST HOLE RESULTS, CONSTRUCTION SHALL BE HALTED AND THE ENGINEER CONTACTED IMMEDIATELY.
10. SOIL TEST RESULTS SERVING AS THE BASIS FOR THIS DESIGN WERE CONDUCTED BY THE CHATHAM HEALTH DISTRICT AND NEMERGUT CONSULTING.
11. NO DEVIATIONS FROM THE APPROVED DESIGN PLAN SHALL BE ALLOWED WITHOUT THE PRIOR APPROVAL OF THE SANITARIAN OR THE DESIGN ENGINEER.
12. EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO FIELD MODIFICATION, AS NECESSARY, AS REQUIRED BY THE DESIGN ENGINEER OR TOWN OFFICIALS.
13. STRIP AND STOCKPILE EXISTING TOPSOIL LAYER FROM WITHIN THE PROPOSED LEACHING SYSTEM IN THOSE AREAS WHERE THE BOTTOM OF THE PROPOSED LEACHING SYSTEM IS AT, OR ABOVE, THE BOTTOM OF THE EXISTING TOPSOIL LAYER OR IN THOSE AREAS WHERE SEPTIC SYSTEM FILL IS REQUIRED.
14. SELECT FILL MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:
    A. THE FILL MATERIAL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SIEVE.
    B. 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).
    C. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
    D. THE REMAINING SAMPLES 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 SIEVE MAY 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%

THE FILL SHALL BE PLACED IN 12" MAXIMUM LIFTS AFTER THE STRIPPED LEACHING SYSTEM AREA HAS BEEN SCARIFIED. TRUCKS OR OTHER CONSTRUCTION EQUIPMENT SHALL NOT BE DRIVEN OVER THE SCARIFIED AREA PRIOR TO FILL PLACEMENT. PRIOR TO FILL PLACEMENT ANY SMEARED FILL AREAS SHALL BE RE-SCARIFIED.

15. PRIOR TO PLACEMENT, FILL MATERIAL SHALL BE INSPECTED AND APPROVED BY THE HEALTH DISTRICT AND THE DESIGN ENGINEER
16. SEPTIC TANKS SHALL BE TWO COMPARTMENT TANKS WITH HEAVY DUTY STEEL HANDLES FOR MANHOLE ACCESS COVERS AND EFFLUENT FILTERS INSTALLED ON OUTLET BAFFLES
17. ALL PIPE DOWNSTREAM OF THE OF THE SEPTIC TANK (EXCEPT FOR LEACHING TRENCHES) SHALL BE 4" DIAMETER P.V.C. ASTM D3034 SDR 35 OR APPROVED EQUAL.
18. THE SITE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 1-800-922-4455 PRIOR TO CONSTRUCTION TO VERIFY THE EXTENT AND LOCATION OF EXISTING UNDERGROUND UTILITIES.
19. THE LEACHING SYSTEM SHALL BE PROPERLY COVERED BY THE LICENSED SYSTEM INSTALLER WITHIN TWO (2) WORKING DAYS FOLLOWING THE LOCAL HEALTH DISTRICT'S FINAL INSPECTION AND APPROVAL.
20. IMMEDIATELY UPON COMPLETION OF THE SEPTIC SYSTEM INSTALLATION AND FINAL APPROVAL BY THE HEALTH DISTRICT, THE SEPTIC SYSTEM SHALL BE BACKFILLED, TOPSOILED,SEEDED AND MULCHED. THE FINAL GRADING SHALL CONFORM TO THE DESIGN PLAN AND SHALL ENSURE THAT SURFACE RUNOFF IS DIRECTED AWAY FROM THE THE LEACHING SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES SHALL NOT BE REMOVED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED IN DISTURBED AREAS.
21. THE PROJECT SURVEYOR SHALL BE CONTACTED PRIOR TO BACKFILLING THE SEPTIC SYSTEM TO ALLOW FOR TAKING THE NECESSARY FIELD MEASUREMENTS FOR THE PREPARATION OF AN "AS-BUILT" SEPTIC SYSTEM PLAN AS REQUIRED BY THE HEALTH DISTRICT PRIOR TO THE ISSUANCE OF A PERMIT TO DISCHARGE OR A CERTIFICATE OF OCCUPANCY.
22. NO GRADING OR OTHER DISTURBANCE OF THE AREA OF THE PROPOSED SEPTIC SYSTEM WILL BE ALLOWED PRIOR TO THE INSTALLATION. NO PARKING, EQUIPMENT STORAGE OR TRAFFIC IN THE AREA OF THE SEPTIC SYSTEM WILL BE ALLOWED.
23. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, THE SEPTIC SYSTEM SHALL BE STAKED OUT BY THE PROJECT SURVEYOR.
24. THE DISTRICT SANITARIAN AND THE ENGINEER SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION. NO PORTION OF THE SYSTEM SHALL BE COVERED WITHOUT INSPECTION AND APPROVAL OF THE SANITARIAN AND THE ENGINEER.
25. THE MINIMUM DISTANCE FROM UTILITY TRENCH (GAS/ELECTRIC/CABLE T.V./TELEPHONE) TO SEPTIC SYSTEM IS 5 FEET.
26. CONSTRUCT STORM WATER SWALES, AS REQUIRED,TO DIRECT SURFACE RUNOFF AWAY FROM THE SEPTIC SYSTEM.
27. IF A LARGE CAPACITY BATHTUB IS INSTALLED THE SEPTIC TANK SHALL BE INCREASED AS FOLLOWS:
    - 100 - 200 GALLON TUB CAPACITY - ADD 250 GALLONS TO SEPTIC TANK CAPACITY
    - OVER 200 GALLON TUB CAPACITY - ADD 500 GALLONS TO SEPTIC TANK CAPACITY
28. IF A GARBAGE DISPOSAL IS INSTALLED, THE SEPTIC TANK SHALL BE INCREASED INSTALLER BY 250 GALLONS. GARBAGE DISPOSALS ARE NOT RECOMMENDED SINCE THEY INCREASE THE SOLIDS LOADING ON THE SEPTIC TANK AND MAY PREMATURELY CLOG EFFLUENT FILTER.
29. BACKWASH FROM THE WATER TREATMENT UNITS, IF REQUIRED SHALL NOT BE DISCHARGED INTO THE SEPTIC SYSTEM.
30. ALL SEPTIC TANKS AND PUMP CHAMBERS REQUIRING RISERS SHALL MAINTAIN THE ORIGINAL COVERS ON THE TANKS, HAVE RISER COVERS THAT WEIGH AT LEAST 100 LBS. OR INSTALL A SAFETY DEVICE BELOW THE RISER TO PREVENT INDIVIDUALS FROM FALLING INTO A TANK.
31. ALL BELOW GRADE TANK OR COVER HANDLES SHALL CONTAIN OR BE FITTED WITH A MATERIAL THAT CAN BE LOCATED WITH A METAL DETECTOR.

PRELIMINARY - FOR REVIEW ONLY

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STATE OF CONNECTICUT · ROGER D. NEMERGUT · NO. 10008 · REGISTERED PROFESSIONAL ENGINEER

ROGER D. NEMERGUT
PROFESSIONAL ENGINEER
LIC. NO. 10008

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THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS THE DESIGN ENGINEER'S RAISED, PROFESSIONAL SEAL APPEARS ON THE PLAN; AND THE OWNER/CONTRACTOR HAS CONTACTED THE DESIGN ENGINEER TO VERIFY THAT THEY ARE IN POSSESSION OF THE LATEST APPROVED DESIGN PLANS.

DETAILS & NOTES

MELISSA & LAWRENCE RUBIN
160 SMITH ROAD
EAST HADDAM CONNECTICUT

MAP: 57 LOT: 74

DATE: 11-17-25
DESIGNED BY: J.A.N.
CHECKED BY: R.D.N.
SCALE: AS NOTED

NO.	DATE	REVISIONS

SHEET

2 OF 2