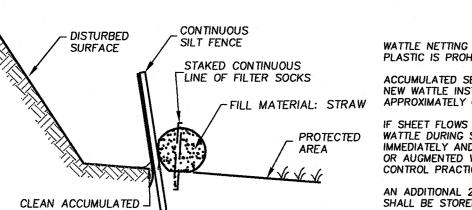


NOT TO SCALE



SILT AND DEBRIS

REGULARLY

WATTLE NETTING SHALL BE MADE OF NATURAL MATERIAL; ACCUMULATED SEDIMENT SHOULD BE REMOVED, OR A NEW WATTLE INSTALLED, WHEN IT REACHES APPROXIMATELY ONE-HALF OF THE WATTLE DIAMETER. IF SHEET FLOWS ARE BYPASSING OR BREACHING THE WATTLE DURING STORM EVENTS, IT MUST BE REPAIRED IMMEDIATELY AND BETTER SECURED, EXPANDED ENLARGED OR AUGMENTED WITH ADDITIONAL EROSION AND SEDIMENT AN ADDITIONAL 25 FEET OF WATTLES AND SILT FENCE SHALL BE STORED IN A DRY SPACE ON SITE FOR

HARVARD SILTATION BARRIER WATTLE DETAIL NOT TO SCALE

SEPTIC TANK SEPTIC TANK SHALL BE A PRECAST, REINFORCED CONCRETE TANK MADE WATERTIGHT. THE TANK SHALL BE INSPECTED BY DESIGN ENGINEER TO VERY WATERTIGHT. CONSTRUCTION MATERIALS AND DIMENSIONS SHALL CONFORM TO TITLE 5 AND AASHTO HS 10 REQUIREMENTS AND PLACED ON A STABLE MECHANICALLY COMPACTED

TANK / SYSTEM TO BE VENTED THROUGH THE BUILDING PLUMBING SYSTEM AS REQUIRED BY BUILDING CODE. TANK SHOULD BE INSPECTED, MAINTAINED AND BE PUMPED OUT WHEN

AT LEAST THREE 20" MAHNOLES SHALL BE PROVIDED. THE MANHOLES OVER THE OUTLET TEE SHALL BE EQUIPPED WITH A RISER AND

SLUDGE DEPTH IN THE BOTTOM EXCEEDS ONE FOURTH OF THE TOTAL

LOCKABLE COVER TO FINISH GRADE. ALL OTHERS SHALL BE EQUIPPED WITH A RISER AND COVER TO WITHIN 6 INCHES OF FINISH GRADE.

GEOMAT LEACHING SYSTEM GeoMAt LEACHING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MASSACHUSETTS GEOMAT LEACHING SYSTEM DESIGN MANUAL FOR PRESSURE AND GRAVITY APPLICATIONS DATED SEPTEMBER 2017. GEOMAT IS A PRODUCT OF GEOMATRIX, 114 MILL ROCK ROAD EAST, OLD SAYBROOK, CT 06475 (860) 510-0730,

ALL LOAM, LARGE BOULDERS OR FOREIGN MATERIAL ENCOUNTERED DURING EXCAVATION ARE TO BE REMOVED FROM THE LEACHING AREA. AVOID WORKING SOILS THAT ARE MOIST OR WET BECAUSE THEY CAN EASILY SMEAR AND COMPACT.

PROPERLY SCARIFY THE DRAIN FIELD BASE BEFORE INSTALLING COMPONENTS.

A MINIMUM OF SIX (6) INCHES OF SAND MEETING THE REQUIREMENTS OF 310 CMR 15.255(3) MUST BE PLACED BENEATH THE GeoMat AND TWO (2) INCHES OF THIS SPECIFICATION OF SAND SHOULD BE PLACED OVER THE GeoMat FABRIC MEMBRANE.

COVER DEPTH SHALL MAINTAIN A MINIMUM OF SIX (6) INCHES ABOVE THE GeoMat DISTRIBUTION PIPE. USE CLEAN SANDY FILL AND TOPSOIL SUITABLE FOR GROWING GRASS.

GeoMat SHALL BE LAID FLAT (LEVEL).

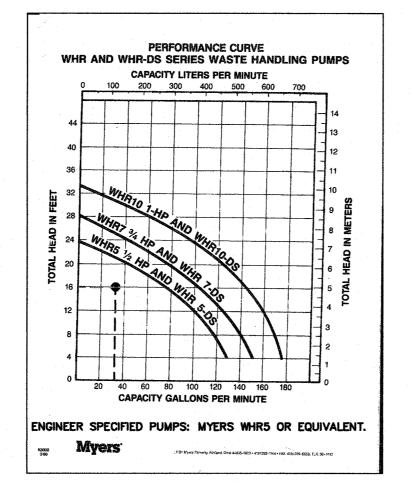
A MINIMUM OF TWELVE (12) INCHES OF SAND SHOULD SURROUND THE PERIMETER OF THE GeoMat IN A BED CONFIGURATION. IF THE COVER MATERIAL OVER THE GeoMat IS ABOVE THE ORIGINAL GRADE, IT SHALL SLOPE AT A 2% PITCH AWAY FROM THE GeoMat SYSTEM AND FROM A POINT FIFTEEN (15) FEET PAST THE GeoMat, PROVIDE A 3:1 SLOPE TO ORIGINAL GRADE, IN ACCORDANCE WITH 310 CMR 255(2).

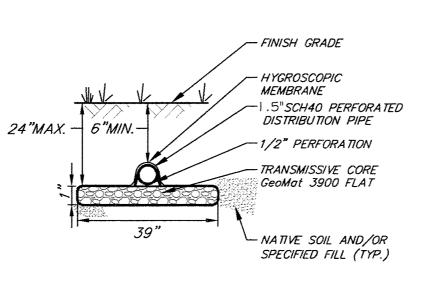
MAXIMUM DEPTH OF COVER OVER LEACHING SYSTEM IS 24 INCHES. GeoMat MAY BE INSTALLED DIRECTLY ATOP CLASS I NATIVE SOILS. GeoMat IN CLASS II. III. AND IV SOILS REQUIRE A MINIMUM OF TWO (2) INCHES OF SAND MEETING THE REQUIREMENTS OF 310 CMR 15.255(3) BENEATH, TO THE SIDES, AND ABOVE THE GeoMat.

SYSTEMS ARE NOT TO BE INSTALLED BENEATH PAVED SURFACES OR IN AREAS OF ROUTINE TRAFFIC, PARKING OR STORAGE OF HEAVY FOUIPMENT.

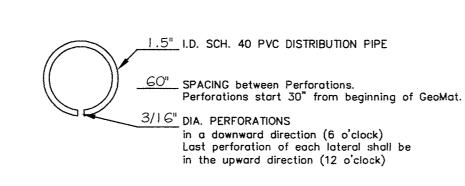
SOIL EXCAVATION AND/OR PLANTING WITHIN FIVE (5) FEET OF THE SYSTEM ARE NOT PERMITTED.

AN INSPECTION PORT MEETING THE REQUIREMENTS OF 310 CMR 15.240(13) IS REQUIRED FOR SYSTEMS INSTALLED WITH SIX INCHES OF SAND BENEATH THE GeoMat





GeoMat 3900 FLAT LEACHING SYSTEM



DISTRIBUTION LATERAL (SECTION)

DOSING CHAMBER GENERAL: ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL CONFORM TO FEDERAL, STATE AND LOCAL CODES, WHETHER SPECIFIED HEREIN OR NOT. ALL PIPING, CONTROLS AND PUMP ARE SUBJECT TO APPROVAL BY THE DESIGN ENGINEER.

LATERAL

INV. ELEV.

<u>3"</u> MANIFOLD —

to Dosing Chamber

Pitched to drain back

-2" of SAND

=99.53

6"Min. Cover

(9.0° apart – edge of core to edge of core).

LEACHING FIELD 57' \times 21.25' = 1211 S.F.

Above Pipe (24" Max.)

BOTTOM OF GeoMat

GeoMat core shall be laid flat

LENGTH OF SAND BED = 571 LENGTH OF GEOMAT $= 55^{\circ}$

-12" SAND*--

~GeoMAT

Flat 3900

THREADED PLUG-

CHAMBER: THE CHAMBER SHALL BE A PRECAST, REINFORCED CONCRETE SEPTIC TANK WITH PRE-FITTED BOOTS. CONSTRUCTION MATERIALS AND DIMENSIONS SHALL CONFORM TO TITLE 5 AND AASHTO HS-20 LOADING REQUIREMENTS AND SHALL BE PLACED ON A STABLE MECHANICALLY COMPACTED LEVEL BASE. ONE TANK MANHOLE SHALL EXTEND TO FINISHED GRADE AND BE MADE WATERTIGHT. COVER SHALL BE METAL AND WEIGH 60 LBS. (MINIMUM) AND HAVE AN INSIDE DIMENSION 1 1/2 TIMES MAXIMUM PUMP DIMENSION AND HAVE A 24" INSIDE DIAMETER MINIMUM. CHAMBER TO BE VENTED VIA BUILDING PLUMBING SYSTEM TO ROOF. IF THE CHAMBER IS TO BE UNDER PAVED SURFACES OR SUBJECT TO VEHICULAR LOADING, THE CHAMBER, ALL MANHOLES AND EXTENSIONS SHALL BE RATED TO WITHSTAND AASHTO HS-20 DIRECT LOADING (HEAVY DUTY).

PUMPS: PUMPS SHALL BE A NON-CLOG SUBMERSIBLE SEWAGE PUMP CAPABLE OF PASSING A 1 1/4" DIAMETER SOLID AND STRINGY MATERIAL. PUMPS SHALL HAVE A 0.5 HP (MINIMUM) MOTOR AND SHALL BE CAPABLE OF PUMPING 32.5 GALLONS PER MINUTE (GPM) AGAINST A TOTAL DYNAMIC HEAD (TDH) OF 16.1 FEET.

ENGINEER SPECIFIED PUMPS: MYERS WHR5 OR EQUIVALENT.

PUMPS SHALL BE SPECIFICALLY MANUFACTURED OR WARRANTED BY THE MANUFACTURER FOR DUAL PUMP SYSTEMS AND INSTALLATION. PUMPS PUMP INSTALLATION SYSTEMS AND PERMIT THE RAISING AND LOWERING OF PUMP WITHOUT REMOVING OR ALTERING ANY PIPING OR WIRING. ALL RAIL SYSTEMS MUST FEATURE A SET-SEAL ASSEMBLY TO ENSURE ALIGNMENT AND SEAL WHEN PUMPS ARE LOWERED IN PLACE. RAIL SYSTEMS SHALL BE PERMANENTLY AND SECURELY ATTACHED TO THE CHAMBER IN THE MANNER REQUIRED BY THE SYSTEMS MANUFACTURER.

PUMP SIZE AND SPECIFICATIONS ARE BASED UPON THE PROPOSED DOSING CHAMBERS' ELEVATIONS AND LOCATION SHOWN HEREON. ANY ALTERATIONS SHALL BE APPROVED BY THE DESIGN ENGINEER.

CONTROLS: SEALED FLOAT TYPE MERCURY SWITCHES SHALL BE SUPPLIED TO CONTROL THE SUMP LEVEL AND ALARM SIGNAL. FOUR (4) FLOAT SWITCHES SHALL BE USED TO CONTROL THE SUMP LEVEL; ONE FOR THE LEAD PUMP OFF, ONE FOR THE LEAD PUMP ON, AND ONE FOR LAG PUMP ON: A FOURTH SWITCH SHALL BE PROVIDED WITH A POWER SOURCE SEPARATE FROM THE PUMP POWER SOURCE AND SHALL BE FOR THE ALARM UNIT. FLOAT SWITCHES SHALL BE OF THE MERCURY TUBE TYPE SEALED IN POLYURETHANE FLOATS. THE DIMENSIONAL SETTINGS OF THE FLOATS ARE THE ELEVATIONS AT WHICH THE FLOATS ARE TO ACTIVATE/INACTIVATE THE PUMP AND /OR THE ALARM. REQUIRED. THE FLOAT LEVEL CONTROLS SHALL BE SET TO OPERATE AT THE ELEVATIONS INDICATED. THESE ELEVATIONS SHALL BE ADJUSTED BY THE INSTALLER TO ENSURE FUNCTION ACCORDING TO THE SPECIFIED ELEVATIONS. (SEE PUMP CHAMBER DETAIL)

A NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA), NEMA-4 JUNCTION BOX SHALL BE INSTALLED ABOVE THE HIGH WATER LEVEL. NO WIRE SPLICES SHALL BE WITHIN THE CHAMBER UNLESS SEALED IN WATER AND GAS JUNCTION BOX. EACH PUMP ACTIVATION SHALL CONSTITUTE A PUMP CYCLE. LEAD AND LAG PUMPS DESIGNATION/ACTIVATION SHALL ALTERNATE AFTER EACH CYCLE.

CONTROL PANELS: A DUPLEX CONTROL PANEL SHALL BE EQUIPPED WITH A RUN LIGHT FOR EACH OF THE PUMPS AND HAVE PROPERLY SIZED CIRCUIT BREAKERS, A TRANSFORMER TO GIVE PROPER VOLTAGE TO THE CONTROL CIRCUITS, AND TWO (2) THREE WAY HAND CONTROL SWITCHES (ONE FOR EACH PUMP). THE SWITCH POSITIONS ARE AS FOLLOWS: 1. PUMP OFF, 2. AUTOMATIC PUMP ON, AND 3. MANUAL PUMP ON. THE CONTROL PANEL SHALL BE HOUSED IN A NEMA-1 CONTROL BOX FOR SUITABLE USE WITH ALL OF THE COMPONENTS MANUFACTURER'S STANDARDS FOR THE EQUIPMENT USED. THE CONTROL PANEL SHALL BE INSTALLED IN A SUITABLE LOCATION INSIDE OF THE BUILDING. ALL ELECTRICAL WORK SHALL CONFORM TO FEDERAL, STATE AND LOCAL BUILDING CODE REQUIREMENTS.

ALARM: A HIGH WATER ALARM SHALL BE SUPPLIED WITH BOTH AN AUDIBLE AND VISUAL ALARM WITH A SEPARATE POWER SUPPLY FROM THE PUMPS. THE ALARM SHALL BE MOUNTED IN A NEMA-1 ENCLOSURE SEPARATE FROM THE CONTROL PANEL. AN ALARM SILENCER BUTTON SHALL BE PROVIDED TO SILENCE THE AUDIBLE ALARM WHILE THE VISUAL ALARM REMAINS LIT UNTIL MANUALLY RESET.

PIPING: PIPING FROM PUMP TO 3' OUTSIDE TANK SHALL BE 2" SCHEDULE 40 (SDR-21) SOLVENT-WELDED PVC OR ABS. CHECK VALVE SHALL BE 2" BALL-TYPE WITH 2 HOSE CLAMP CONNECTIONS AT EACH SIDE OF THE JOINT. RISER CLAMPS WITH PVC INSERTS ARE REQUIRED AT PUMP CHAMBER. ALL PIPING SHALL BE SHIELDED FROM ANY ABRASION (INCLUDING FORCE MAIN).

FORCE MAIN: FORCE MAIN SHALL HAVE 4' MINIMUM COVER EXCEPT WITHIN 5' OF THE CHAMBER AND MANIFOLD WHICH SHALL BE INSULATED WITH 2" RIGID PRE-MOLDED POLYSTYRENE INSULATION. FORCE MAIN SHALL BE 2" SDR-21 PVC TIGHT JOINT PIPE. JOINTS SHALL BE SOLVENT-WELDED. TRANSITION BETWEEN DOSING CHAMBER PIPING AND FORCE MAIN SHALL BE WITH A 2" PVC UNION SOCKET. ALL PIPES SHALL BE SET IN 6" OF SAND AND BE SNAKED TO ALLOW FOR CONTRACTION AND BE LAID TO PROVIDE A DOWNWARD GRADIENT FROM THE MANIFOLD TO THE CHAMBER. FORCE MAIN AND ALL JUNCTIONS SHALL BE WATER AND PRESSURE TIGHT WITH NO LEAKAGE ALLOWED.

A PORTION OR ALL OF THE FORCE MAIN MAY BE PROPOSED TO BE INSTALLED ABOVE THE FROST LINE. THOSE PORTIONS, IN ACCORDANCE WITH TITLE 5 310 CMR 15.221(6) SHALL BE INSULATED ADEQUATELY OR BE MADE SELF DRAINING.

PRESSURE FILTER: A SIM/TECH STF-100 PRESSURE FILTER, OR APPROVED EQUAL, SHALL BE INSTALLED BETWEEN THE PUMP AND THE CHECK VALVE. SEE MANUFACTURER'S REQUIREMENTS FOR MORE INSTALLATION INFORMATION.

GENERAL NOTES

-ACCESS BOX

MIN. FINAL

BOT. SAND

TWO (2) SCH40

PVC 45° FITTINGS

FOR TURN UPS.

GRADE=100.5

SYSTEM IS DESIGNED TO ACCOMMODATE SANITARY SEWAGE ASSOCIATED WITH NORMAL DOMESTIC USE AND CONSISTING OF WATER CARRIED ALL COMPONENTS OF THE SEWAGE DISPOSAL SYSTEM, EXCEPT THE

GeoMat LEACHING SYSTEM, SHALL BE COVERED BY A MAXIMUM OF 36" OF CLEAN BACKFILL MATERIAL, FREE OF STONES AND BOULDERS GREATER THAN 6" IN SIZE. THE MAXIMUM COVER OVER THE GeoMat IS ALL COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR

A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED. OWNER SHALL VERIFY EFFECTIVE ZONING REGULATIONS PRIOR TO

PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT

ON DATE OF TOPOGRAPHY, AND THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. IS NOT INTENDED OR IMPLIED. ALL PIPING SHALL BE LAID TRUE TO LINE, GRADE AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

THERE ARE NO EXISTING WELLS WITHIN ___ | OO' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM. (50' OF THE SEPTIC TANK.)
THERE ARE NO EXISTING SEWAGE DISPOSAL SYSTEMS WITHIN 100' OF

ALL KNOWN WELLS WITHIN 200' OF THE PROPOSED PRIMARY AND

EXPANSION LEACH AREAS ARE SHOWN. THE DESIGN ENGINEER SHALL BE NOTIFIED PROMPTLY OF ANY PLAN DEFICIENCIES FOUND DUE TO UNFORESEEN SUBSURFACE CONDITIONS OR OTHER REASONS THAT MIGHT AFFECT THE FUNCTION OF THIS DESIGNED

DEVIATIONS IN DESIGN OR CONSTRUCTION FROM THIS PLAN OR ANY OF THE CONDITIONS RELATING TO THE USE OR MAINTENANCE OF THE PROPOSED SYSTEM SHALL BE DEEMED TO VOID ANY CERTIFICATION OR REPRESENTATION MADE RELATIVE TO THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM.

CONTRACTOR SHALL NOTIFY "DIG SAFE" PRIOR TO ANY EXCAVATION. 1-888-DIG-SAFE (344-7233) PRIOR TO ANY CONSTRUCTION A BENCHMARK SHALL BE SET WITHIN

50-75' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.

SYSTEM IN FILL REQUIRED IN NOT REQUIRED IF ANY PORTION OF THE PROPOSED LEACHING AREA IS LOCATED ABOVE EXISTING GRADE OR WITHIN TOPSOIL, PEAT OR OTHER UNSUITABLE OR IMPERVIOUS SOIL LAYER, THEN THE PLACEMENT OF FILL IS REQUIRED. PRIOR TO THE PLACEMENT OF FILL, ALL UNSUITABLE OR IMPERMEABLE SOILS SHALL BE EXCAVATED TO A MINIMUM OF FIVE FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE SOIL ABSORPTION SYSTEM TO THE DEPTH OF NATURALLY OCCURRING PERVIOUS MATERIAL. FILL MATERIAL SHALL BE SELECT, ON-SITE OR IMPORTED SOIL, CONSISTING OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT SOIL CLASSES SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES. A SIEVE ANALYSIS USING A #4 SIEVE, SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL. UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED IN THE #4 SIEVE. SIEVE ANALYSES SHALL ALSO BE PERFORMED ON THE FRACTION OF FILL SAMPLE PASSING THE #4 SIEVE. SUCH ANALYSES MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS:

SIEVE SIZE	EFFECTIVE PARTICLE SIZE	% THAT MUST PASS SIEVE
# 4	4.75 MM	100%
# 50	0.30 MM	10%-100%
#100	0.15 MM	0%-20%
#200	0.075 MM	0%-5%

WETLAND PROTECTION ACT (C131 S40) PRIOR TO INITIATING ANY ALTERATIONS (REMOVAL OF VEGETATION, EXCAVATIONS, GRADING, ETC.) WITHIN 100' OF WETLANDS (PONDS, BROOKS, SWAMPS, ETC.) OR WITHIN 200' OF AN AREA SUBJECT TO THE RIVER'S ACT (PERENNIALLY FLOWING RIVER, BROOK OR STREAM) A REQUEST FOR DETERMINATION OF APPLICABILITY OR A NOTICE OF INTENT UNDER THE WETLANDS PROTECTION ACT (310 CMR 10.00) SHOULD BE FILED WITH THE TOWN'S CONSERVATION COMMISSION. LOCAL BYLAWS MAY ALSO APPLY.

> SOIL BORING WITH HAND AUGER BY BRANDON DUCHARME, D.E.R.A., INC. 2/18/2021 B-1: ELEV. = 91.1'

Ap 0' - 8" FINE SANDY LOAM Bw 8" - 18" LOAMY SAND CI 18" - 32" MED. SAND MOTTLING AT 28" NO GROUNDWATER NO REFUSAL E.S.H.W.T. AT 28" (88.8")

SCHEDULE OF ELEVATIONS	PROPOSED	AS-BUILT
TOP CONCRETE FOUNDATION EXIST.	99.20	
INVERT AT FOUNDATION	92.31	
INVERT TANK INLET	92.05	
INVERT TANK OUTLET	91.80	
TOP SEPTIC TANK	93.2±	
INVERT PUMP CHAMBER INLET	91.70	
INVERT PUMP CHAMBER OUTLET	91.95	
TOP PUMP CHAMBER	93.1±	
MIN. FINAL GRADE	100.5	
INVERT LATERAL BEGIN	99.61	
INVERT LATERAL END	99.61	
BOTTOM OF GeoMat	99.53	
BOTTOM OF SAND	99.03	
GROUNDWATER OFFSET REQUIRED	5'	
GROUNDWATER OFFSET UTILIZED	4:	

DESIGN CRITERIA

GARBAGE GRINDERS - NOT PERMITTED

PERC. TESTS: PERFORMED BY DANIEL WOLFE, D.E.R.A., INC WITNESSED BY IRA GROSSMAN, N.A.B.H. PERC. # RATE (M/I) ELEVATION DEPTH DATE A <2 96.9 56' 12/22/20 SUR

FLOWS: $\frac{14}{14}$ LANES AT 100 GPD = $\frac{1,400}{14}$ GPD

SEPTIC TANK REQUIRED: (_____ GAL. MIN.) 1,400 GPD X 2.0 = 2,800 GAL. TANK

LEACHING AREA PROVIDED: A. BASIS 2 MIN./INCH PERCOLATION RATE

B. SOIL CLASS ___ C. SAND BED GeoMAT PRODUCT: 3900 FLAT 1. LOADING RATE ______ I.50 __ GPD/S.F.

INSTALLED IN: S 6" SAND BENEATH NATIVE SOILS 2. GeoMat AREA REQUIRED: 1,400 GPD / 1.50 GPD /.S.F

= 934 S.F 3. SAND BED PROVIDED: 1,211 S.F. (1,134 S.F. MIN.)

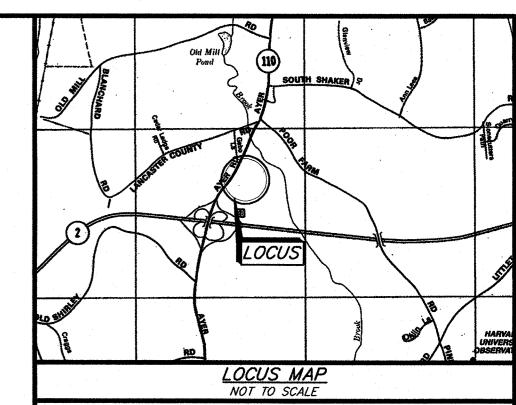
4. LENGTH OF GeoMat REQUIRED: 934 S.F. / 3.42 S.F. / L.F. = 273 L.F.5. LENGTH OF GeoMat PROVIDED:

 $_{5}$ ROWS x $_{55}$ L.F./ROW = $_{275}$ L.F.

OBSERVATION TEST HOLE DATA BY DANIEL WOLFE, D.E.R.A., INC. WITNESSED BY IRA GROSSMAN, N.A.B.H. 12/22/20

1220-1: ELEV. = 97.3' FILL 0' - 24" Ab 24" - 26" FINE SANDY LOAM Bw 26' - 30' LOAMY SAND CI 30° - 60° MED. SAND C2 60° - 104" MED./CRS. SAND MOTTLING AT 44* GROUNDWATER AT 69* NO REFUSAL E.S.H.W.T. AT 44* (93.6')

1220-2: ELEV. = 98.5' FILL 0' - 34" Ab 34" - 38" FINE SANDY LOAM CI 38' - 55' MED. SAND C2 55' - 10G' MED./CRS. SAND MOTTLING AT 50° GROUNDWATER AT 65' NO REFUSAL E.S.H.W.T. AT 50* (94.3°)



THE T.O.C. ELEVATION SHALL NOT BE USED AS A BENCHMARK FOR CONSTRUCTION UNTIL VERIFIED WITH BENCHMARK NAIL AS SHOWN.

CONTRACTOR TO VERIFY ELEVATION OF EXISTING SEWER ELEVATION AT FOUNDATION OR SEWER CONNECTION PRIOR TO THE PLACEMENT OF THE SEPTIC TANK AND REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER.

THE EXISTING SEPTIC TANK IS TO BE PUMPED OUT AND REMOVED OR PUNCTURED AND BACKFILLED WITH CLEAN GRAVEL FILL.

GARBAGE DISPOSALS AND WATER SOFTENERS SHALL NOT BE USED WITH THE GEOMAT LEACHING SYSTEM.

GeoMAT LEACHING SYSTEM DESIGNED IN ACCORDANCE WITH REMEDIAL USE APPROVAL ISSUED TO GEOMATRIX SYSTEMS, LLC, OCTOBER 26, 2016, LAST MODIFICATION JUNE 26, 2019, TRANSMITTAL #X267826, AND THE STANDARD

CONDITIONS FOR ALTERNATIVE SOIL ABSORPTION SYSTEMS, DATED MARCH 5, 2018 PRIOR TO OBTAINING A CERTIFICATE OF COMPLIANCE FOR INSTALLATION OF AN UPGRADED SYSTEM, THE SYSTEM OWNER SHALL RECORD IN THE CHAIN OF TITLE FOR THE PROPERTY SERVED BY THE ALTERNATIVE SYSTEM IN THE REGISTRY OF DEEDS OR

LAND REGISTRATION OFFICE, AS APPLICABLE, A NOTICE DISCLOSING THE EXISTENCE

OF THE ALTERNATIVE ON-SITE SYSTEM. THE LIMIT OF A TRADITIONAL LEACHING SYSTEM (LEACHING BED 65'L x 30'W x 6"D) IS SHOWN IN THE PLAN VIEW ALONG WITH THE LIMIT OF THE REQUIRED BREAKOUT GRADING. (1,950 S.F x 0.74 GPD/S.F. = 1,443 GPD)

AN EFFLUENT FILTER IS REQUIRED IN THE OUTLET TEE OF THE SEPTIC TANK. THE

FILTER SHALL BE MAINTAINED ON AN ANNUAL BASIS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

DESIGN CRITERIA PROPOSED IN ACCORDANCE WITH THE PROVISIONS OF TITLE 5 310 CMR 12.405 CONTENTS OF LOCAL UPGRADE APPROVAL.

15.405(1)(h) - REDUCTION ON THE REQUIRED SEPARATION BETWEEN THE BOTTOM O THE SOIL ABSORPTION SYSTEM AND THE HIGH GROUNDWATER FROM FIVE (5) FEET

GRAPHIC SCALE IN FEET					
RV.: GSN/JSD	CALC.: KRC		DRAFT: BJD		
827–10	DEED: 5629/190		CHECK: DBW		
REVISIONS					
19/2021: REVISE PLAN PER H COMMENTS		7)	ENTH OF MASE		
18/2021: REVISE TANK/DC CATION, UPDATE PRES. SE CALC, ADD PWS WELL		4 \	DANIEL B. WOLFE CIVIL NO. 36523 COSTERED		
a kanang paminana ang kanan da ang kananana ang mang mang mang mananana an an			SS OND ENGLISHED OF PROPERTY O	2	

Jewe DUNG 8-18-21

SEWAGE DISPOSAL SYSTEM

ESIGNED FOR: SCOTT PATTERSON

ADDRESS: 204 AYER ROAD HARVARD, MA ASSESSOR MAP: SSESSOR PARCEL 38





6 Lancaster County Road 978-772-6232

33788

JOB NO.:

P.O. Box 795 Harvard, MA 01451-0795			FAX 978-772-6258 www.davideross.com
SCALE:	1"=20'	DATE:	JULY 2021
REF.:	20545, 33541	PLAN NO	L-14179

1 of 2

