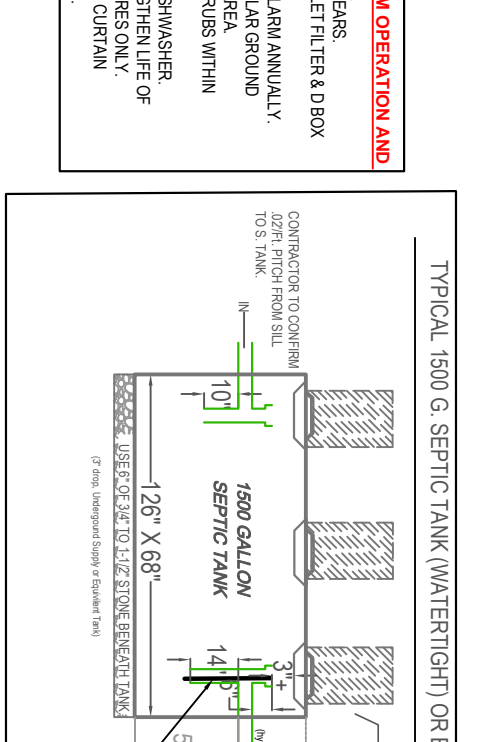


WETLAND DELINEATION AND SEDIMENT CONTROL NOTES:

- NO ALLIUM OR OTHER TOXIC PLANTS SHALL BE PLANTED OR MAINTAINED ON THE DOWNGRADIENT SIDE OF THE SEDIMENT CONTROL STRUCTURE.
- SEDIMENTATION BARBERS TO BE ERECTED IN STRAIGHT AND LASTING MANNER AS SHOWN ON THE PLAN.
- NOTIFY CONSERVATION ADMINISTRATOR AT LEAST 72 HOURS (IF REQ'D) PRIOR TO START OF ON-SITE WORK. AFTER COMPLETE ON-SITE FENCE INSTALLATION.
- AS SOON AS POSSIBLE WORK AREA SHALL BE SEEDED, REVEGETATED WITH GRASS OR SIMILAR GRASS/COVER AND MULCHED UPON COMPLETION OF SITE WORK.
- SILT FENCE TO REMAIN STANDING UNTIL REGRADING IS SUFFICIENT TO CONTROL FUGITIVE SEDIMENT RUNOFF.
- REGRADE WORK AREA AS NOTED TO PREVENT CHANGE IN SLOPE OR RUNOFF PATTERNS.

PUMP CHAMBER/ROUTED SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES:

- HAVE SEPTIC TANK PUMPED EVERY SECOND TO 3 YEARS.
- HAVE TANK, PUMP AND PUMP CHAMBER & OUTLET FILTER & D BOX INSPECTED ANNUALLY.
- MAKE CERTAIN TO TEST HIGH WATER SHUT OFF ALARM ANNUALLY.
- MAINTAIN AREA OVER SEPTIC AS GRASSY OR SIMILAR GROUND COVER ATTEMPTING TO MAXIMIZE SUNLIGHT TO AREA.
- DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF LEACHFIELD.
- USE ONLY LIQUID DETERGENTS IN WASHERS OR DISHWASHER.
- CONSERVE WATER BY NOT LEAVING TOILETS OR SINKS RUNNING.
- KEEP ALL RINSE DRAINS SUCH AS CUTTERS OR CURTAIN DRAINS AT LEAST 25 FEET FROM LEACHING FIELD.



DESIGN NOTES AND CALCULATIONS:

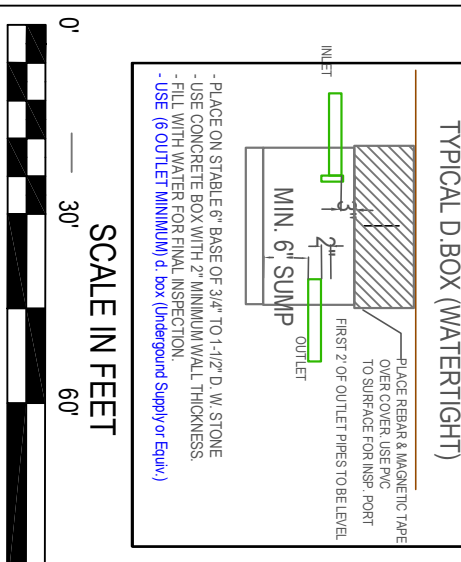
- 4 BEDROOM = 440 GPD MINIMUM REQUIRED. (MINIMUM DESIGN FLOW, 440 GPD)
- USE LEACH FIELD 14' WIDE X 43' LONG WITH 6" OF 3/4" TO 1/2" DOUBLE WASHED STONE BELOW INVERT.
- DOUBLE WASHED STONE BELOW INVERT:
 - BOTTOM AREA: 14' W X 43' L = 602 SF
 - TOTAL AREA: 602 SF X 0.74 GAL/SF = 445 GPD PROVIDED
- NO OTHER PRIVATE WELLS WITHIN 100 FEET OF SAS.
- NO WETLANDS (RESOURCE AREAS WITHIN 50' FEET OF SAS. FILE REQUEST FOR DETERMINATION (RDA))
- USE 1,500 GALLON SEPTIC TANK & 1,000 GALLON PUMP CHAMBER AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO SEPTIC TANK.
- INSTALL & INSPECT SCHEDULE 40 TEES. (10" INLET, 14" OUTLET).

NOTE: ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.

- USE LARGE STYLE (6 OUTLET) DISTRIBUTION BOX.
- ALL DISTRIBUTION BOX OUTLET PIPES LEVEL FOR FIRST 2' BOXES MUST HAVE 2" THICK CONCRETE WALLS.

NOTE: ALL PLASTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.

- USE (1.75" / 1.2") STONE UNDER TANK & DISTRIBUTION BOX FOR STABLE BASE.
- USE ONLY DOUBLE WASHED APPROVED STONE (1.75"-1.57" FOR PLACEMENT IN LEACH AREA.
- USE SCHEDULE 40 PVC PIPING FROM DWELLING TO DISTRIBUTION BOX INLET.
- PRE & POST COUNTOURS NOTED AS NECESSARY. RESERVE AREA IS NOT REQUIRED.
- SUBGRADE INSPECTION IS REQUIRED PRIOR TO PLACEMENT OF TITLE 5 SAND OR LEACHING STONE.
- USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION OF DWELLING AND ELEVATION OF RESIDENCE & ESHGW (310 OMR 15.240)
- USE 2% MINIMUM SLOPE OVER SAS:
- CLEAR TOP AND SUB TO MINIMUM THE FEET AROUND (INSPECTION REQUIRED).
- CLEAR PAST BASE OF B & SCARIFY UNDER STONE PRIOR TO TITLE V SAND/STONE PLACEMENT.
- EXCAVATE EXISTING LOAM, SUBSOIL AND ANY EXISTING DEBRIS OR DIRTY FILL, IF PRESENT.
- SOIL EVALUATION BY A. WEISS & G. MONEALY. 01.04.2023
- DEPTH OF PERC: 44"
- PERC RATE = 3.0 Min/In
- CLASS 1 SAND SOIL RATING
- NO TREES WITHIN 10 FEET OF NEW LEACH AREA.
- ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
17. TBM = 100.0 @ gr. slab. CONFIRM PROPER PIPE SLOPES. OTHERS NOTED.
- GRADE MULCH AND SEED OVER SAS AS NOTED.
- INSTALLATION IN LOW GROUND/WATER SEASON RECOMMENDED.
- USE OBSERVATION PORT NEAR CENTER OF STONE BED. USE 4" PERFORATED SCH 40 PVC PORTALS TO BOTTOM OF STONE, WITH RISER TO WITHIN 3" OF SURFACE & THREADED CAP MARKED WITH SUBGRADE REBAR.
- LOCAL UPGRADE APPROVAL FOR SAS OFFSET FROM LEACH BOTTOM TO SEASONAL HIGH G. WATER 3' NOT 4'. (310 OMR 15.504(1) ** & Naturally occurring soil.



NOTES:

- TOP SOIL AND ORGANIC MATERIAL TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.
- FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS.
- MIN 10" MAX 18" COVER OVER SEPTIC PIPE

SCALE IN FEET

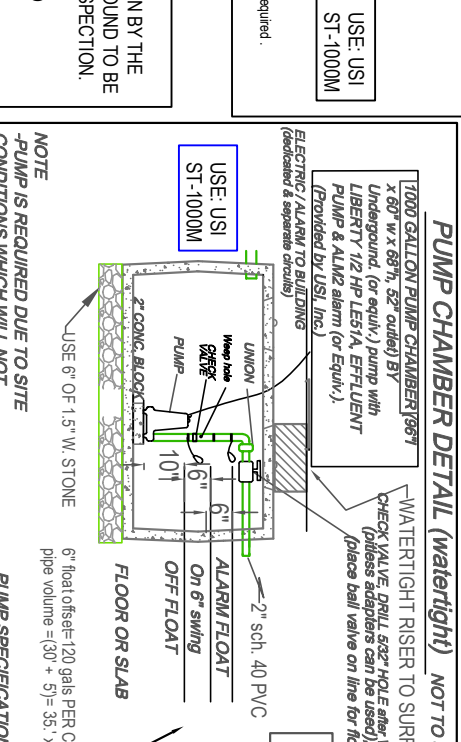
0' 30' 60' 90'

PLOT PLAN
MAP 42 LOT 85
SCALE: 1"=30'
0.92 AC +/-

LEGEND

- TP-1 PERC HOLE LOCATION, NUMBER
- E-1 EXISTING ELECTRICAL WIRE LINE
- 6-1 EXISTING CONTOUR
- 8-1 PROPOSED CONTOUR
- W WELL LOCATION

NOT AN ACTUAL SURVEY!
LINES DRAWN FOR SEPTIC LOCATION PURPOSES ONLY!



TEST PIT LOG:

DEPTH	HORIZ. TEXTURE	MOISTURE	WATERB.	DEPTH	HORIZ. TEXTURE	MOISTURE	WATERB.
0-20"	A	FSL	10 YR 3.2	A	FSL	10 YR 3.2	A & FILM WX
20-32"	B	FS	10 YR 5.6	B	FS	10 YR 5.6	WELL SORTED
32-62"	C1	S	10 YR 5.4	C1	S	10 YR 5.4	FINE-CRSE SAND, 10% COBBLES
62-102"	C2	LSLT	2.5 Y 5.1	C2	LSLT	2.5 Y 5.1	FINE SILT LOAM, VARIOUS PLAYER

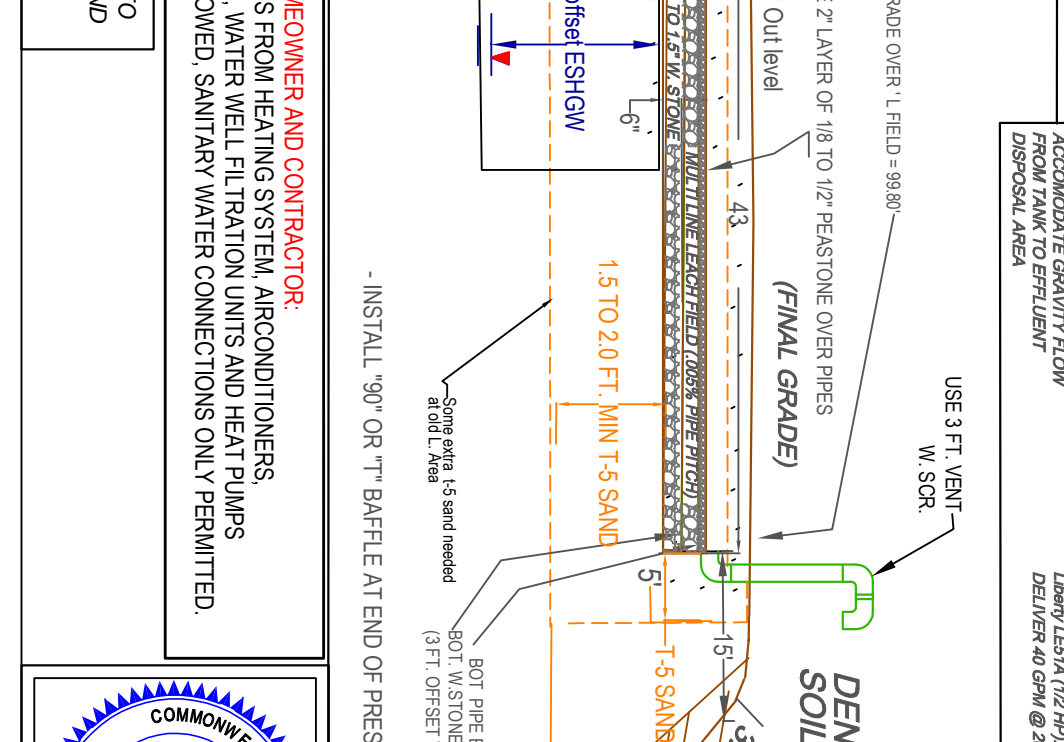
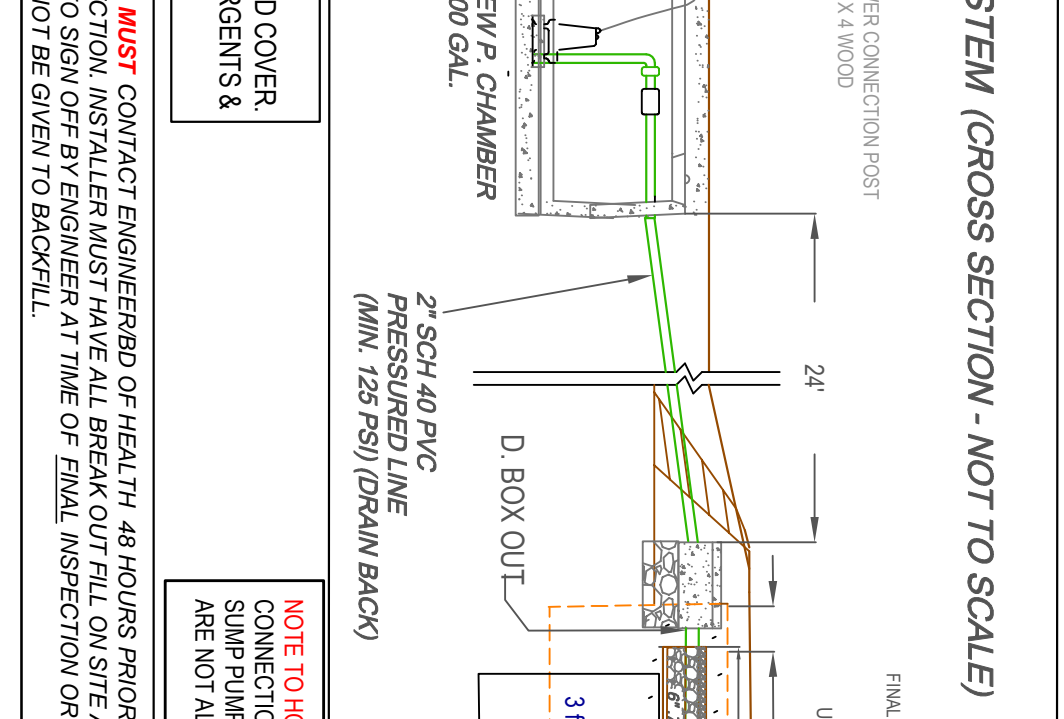
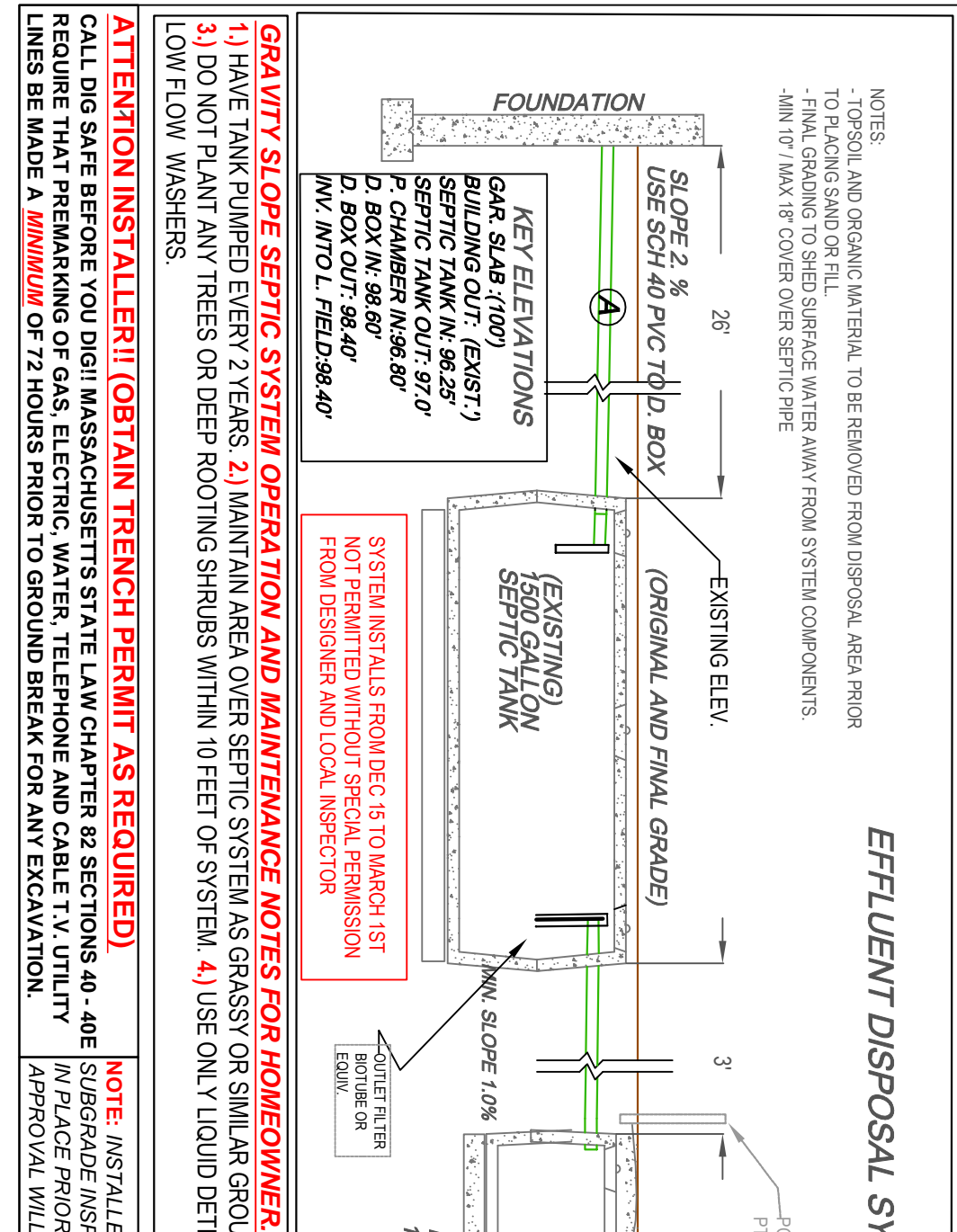
OXIDES: 47"

EHWT: 47"

STANDING H2O: NOT

WEEPING: NOT

BEADROCK: 102"



GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER:

- HAVE TANK PUMPED EVERY 2 YEARS.
- MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
- DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
- USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.

ATTENTION INSTALLER!! (OBTAIN TRENCH PERMIT AS REQUIRED)

- CALL DIG SAFE BEFORE YOU DIG! MASSCHUSSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E REQUIRE THAT BEFORE EXCAVATION OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTILITY LINES BE MADE A MINIMUM OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.
- NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.

NOTE TO HOMEOWNER AND CONTRACTOR: CONNECTIONS FROM HEATING SYSTEM, AIR CONDITIONERS, SUMP PUMPS, WATER WELL, FILTRATION UNITS AND HEAT PUMPS ARE NOT ALLOWED. SANITARY WATER CONNECTIONS ONLY PERMITTED.

SEPTIC SYSTEM DESIGN PLAN FOR MICHAEL HAYDEN
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MONTAGUE, MA

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DATE: 01.05.2023
DRAWN BY: ALAN WEISS
SCALE: 1"=30'

REVISIONS:
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PAGE 1 OF 2