

"SOIL LOGS"

EL. 95.50'	D.T.H. #1
EL. 94.50'	0'-12" 10YR 3/2 SL
EL. 93.50'	12'-24" 10YR 5/6 SL
EL. 87.50'	24'-96" 2.5Y 6/3 FINE-MED SAND

MOTTLES @ 36"
 WATER WEeping @ 60"
 WATER STANDING @ 66"
 ESTIMATED GW @ 36"

EJECTOR PUMP DATA

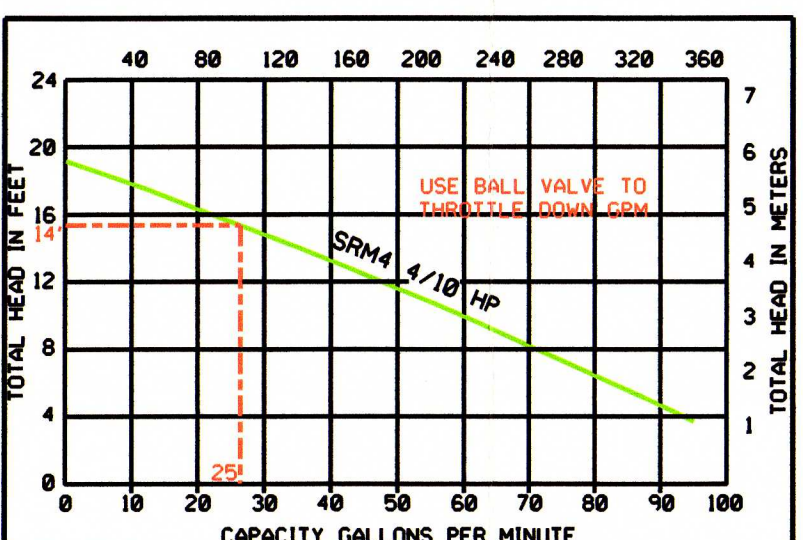
1. LUSE MYERS MODEL SRM4 0.4 HP (2 SOLIDS) OR EQUAL
2. FLOOR OF PUMP CHAMBER ELEV. 90.75'
3. PUMP OFF (12" ABOVE FLOOR) ELEV. 91.75'
4. PUMP ON (15" ABOVE FLOOR) ELEV. 92.00'
5. HIGH WATER ALARM ON (30" ABOVE FLOOR) ELEV. 93.25'
6. DOSE SET AT 92 GAL (25 GALLONS FLOW BACK TO PC)
7. 1-3.68 MIN. RUNNING TIME @ 25 GPM (TOH @ 14')
8. ALARM SHALL BE POWERED BY A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT
9. FORCE MAIN TO DRAIN BACK INTO PUMP CHAMBER
10. DOSE SET APPROX. SIX TIMES DAILY

SOIL EVALUATOR: MARGARET BACON, PE

1. CERTIFY THAT I HAVE PASSED THE EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERIENCE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.08 121.

OTHER PERSONS ON SITE AT TESTING: TETREAUULT CONSTRUCTION

PERCOLATION RATE	2 MPI
DATE SOIL EVALUATION	3/24/21
DATE SOIL SAMPLE	3/24/21
INSPECTOR	THOMAS RYDER
TESTING APPLICANT:	AJ BYRNE JR.



"CONSTRUCTION NOTES"

- EXCAVATE ALL IMPERVIOUS MATERIAL INCLUDING FILL AND TOP SOIL, SILT, CLAY, ETC. TO PERVIOUS MATERIAL IN TRENCH AREA AND IN FIVE FOOT (5') GRAVEL AREA.
- THE GRAVEL SHALL BE PLACED ACCORDING TO SEC. 15.255 SUB-SECTION 3 TO 6.
- ELEVATION OF GRAVEL TOP OF TITLE V SAND 96.50', BOTTOM 94.50'
- PIPES TO BE 15' OC.
- BOTTOM OF ENVIRO-PIPES TO BE LEVEL 95.00'
- ALL OUTLET PIPES FROM THE DISTRIBUTION BOX TO HAVE A MIN. DROP OF 0.1" TO INLET OF ENVIRO PIPE
- NO SURFACE SUBSURFACE OR OPEN DRAINS THAT INTERCEPT GROUNDWATER WITHIN 25' FEET OF THE SEPTIC TANK OR 50' FEET FROM THE LEACHING SYSTEM.
- ENGINEER TO INSPECT BOTTOM EXCAVATION OF LEACHING AREA PRIOR TO GRAVEL PLACEMENT
- HYDRAULIC CEMENT TO BE USED TO SEAL CONNECTIONS AT THE FOUNDATION, SEPTIC TANK, DIST. BOX, & ALL UNSED OUTLETS.
- 11.0AM & SEED ALL DISTURBED AREAS. (ENVIRONMENTAL MATINGS > 50%)
12. CONSTRUCTION OF SEPTIC TANK, DOSING CHAMBER & DISTRIBUTION BOX SHALL CONFORM WITH 310 CMR 15.221 THROUGH 15.226

LEGEND

100' BUFFER ZONE	--- --
DEEP TEST HOLE	○
PERCOLATION TEST HOLE	○
EXISTING CONTOURS	--- --
PROPOSED CONTOURS	--- --
100' WELL RADIUS	○
BENCH MARK	●
SPOT ELEVATIONS (EXIST.)	100X0
SPOT ELEVATIONS (PROPOSED)	100X0
OVERHEAD WIRE	--- --

ADDITIONAL NOTES

- TOWN PERMIT #
- SEPTIC TANK TO BE PUMPED ANNUALLY
- WELL TO BE TESTED EVERY TWO YEARS
- PLAN # IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE, FEMA 25027/032E
- KNOWN EASEMENTS ON LOT: YES ; NO
- SYSTEM LOCATED IN NITROGEN SENSITIVE AREA AS DEFINED BY THE MA DEP OR TITLE V: YES ; NO

DESIGN INFORMATION

- DESIGN RATE 10 MPI
- SLOPE OF SYSTEM 0%
- 350 LINEAL FEET OF ENVIRO PIPE REQUIRED
- USE 360 LINEAL FEET
- NO GARBAGE DISPOSAL UNIT
- 3 - BEDROOM HOUSE, DAILY FLOW MINIMUM OF 550 GALLONS
- NO OTHER WELL WITHIN 150 FEET OF THE PROPOSED SYSTEM
- OTHER THAN SHOWN ON PLAN, NO OTHER SYSTEM WITHIN 200 FEET OF THE PROPOSED WELL OTHER THAN SHOWN ON PLAN
- WATER SOFTENERS SHALL NOT CONNECT TO SEPTIC TANK
- STORMWATER DRAINAGE ON SITE: YES ; NO
- POTABLE WATER SUPPLY (PUBUCION SITE): YES ; NO
- LOT AREA IS NOT TRIBUTARY TO A PUBLIC SURFACE WATER SUPPLY AND IS NOT LOCATED IN A ZONE 2 OF PUBLIC WELLS.
- ALL KNOWN UTILITY LOCATIONS (APPROX) ON SITE ARE SHOWN.
- CONTRACTOR SHALL NOTIFY DIG-SAFE AT 1-888-344-7233 PRIOR TO CONSTRUCTION.
- NO FOUNDATION DRAINS TO BE INSTALLED.

ADVANCE ENVIRO-SEPTIC SYSTEMS LOADING CALCULATIONS

ENVIRO-SEPTIC PIPE DIAMETER 12"

LINEAR FOOTAGE REQUIRED FOR A 5 BDRM WITH PERC RATE OF 10 MPI IS 350 LINEAR FEET.

PER TITLE V USE MIN OF 550 SF FOR LEACHING AREA USE PIPE SPACING AT 15' OC (32' LONG X 19.5' WIDE = 624 SF)

LENGTH OF PIPE 12 ROWS @ 30' LENGTHS AT 15' OC = 360 LF

BED AREA PER DEP MINIMUM EFFECTIVE LEACHING AREA 550 SF

LAYOUT 32' FEET LONG X 19.5' WIDE = 624 SF

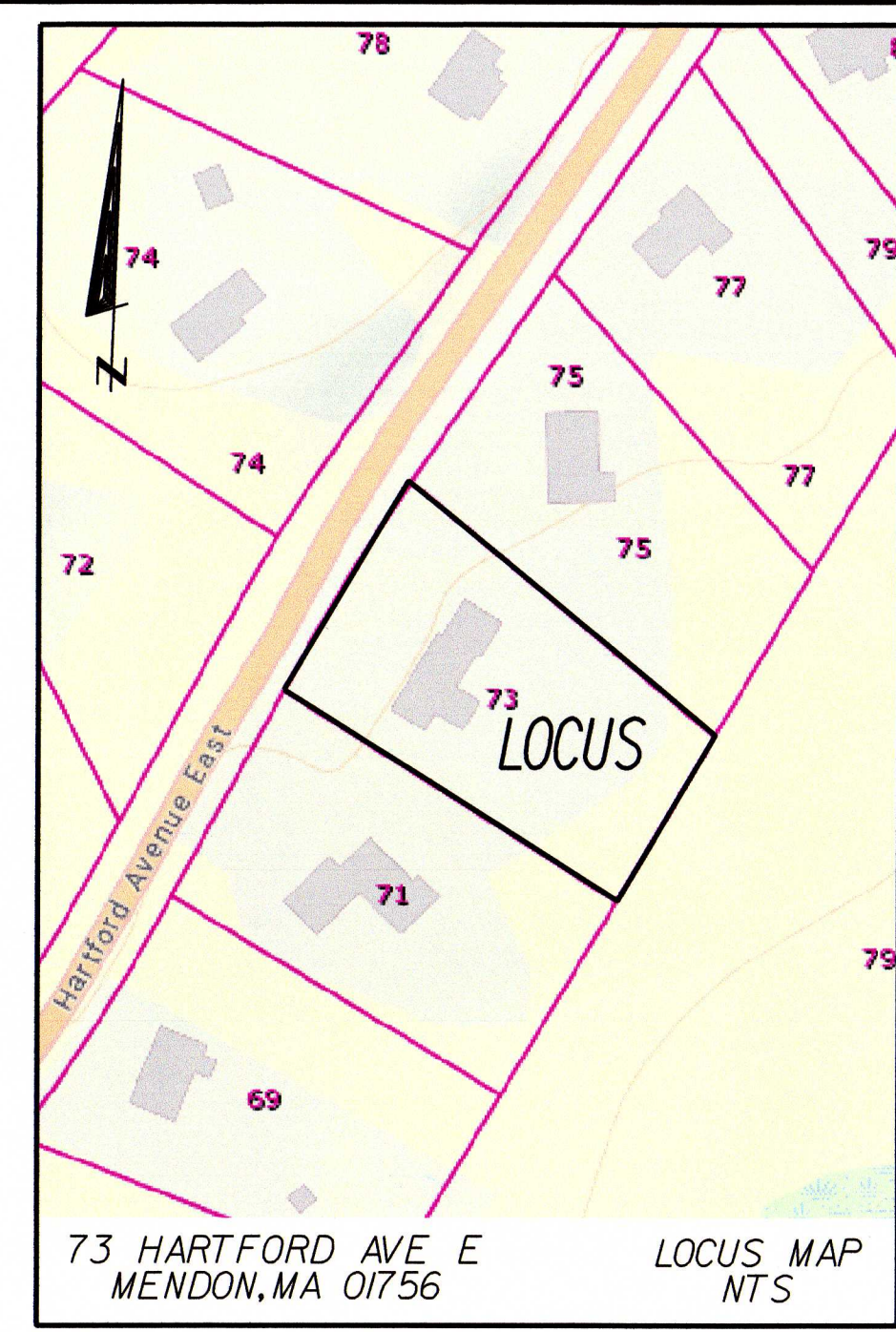
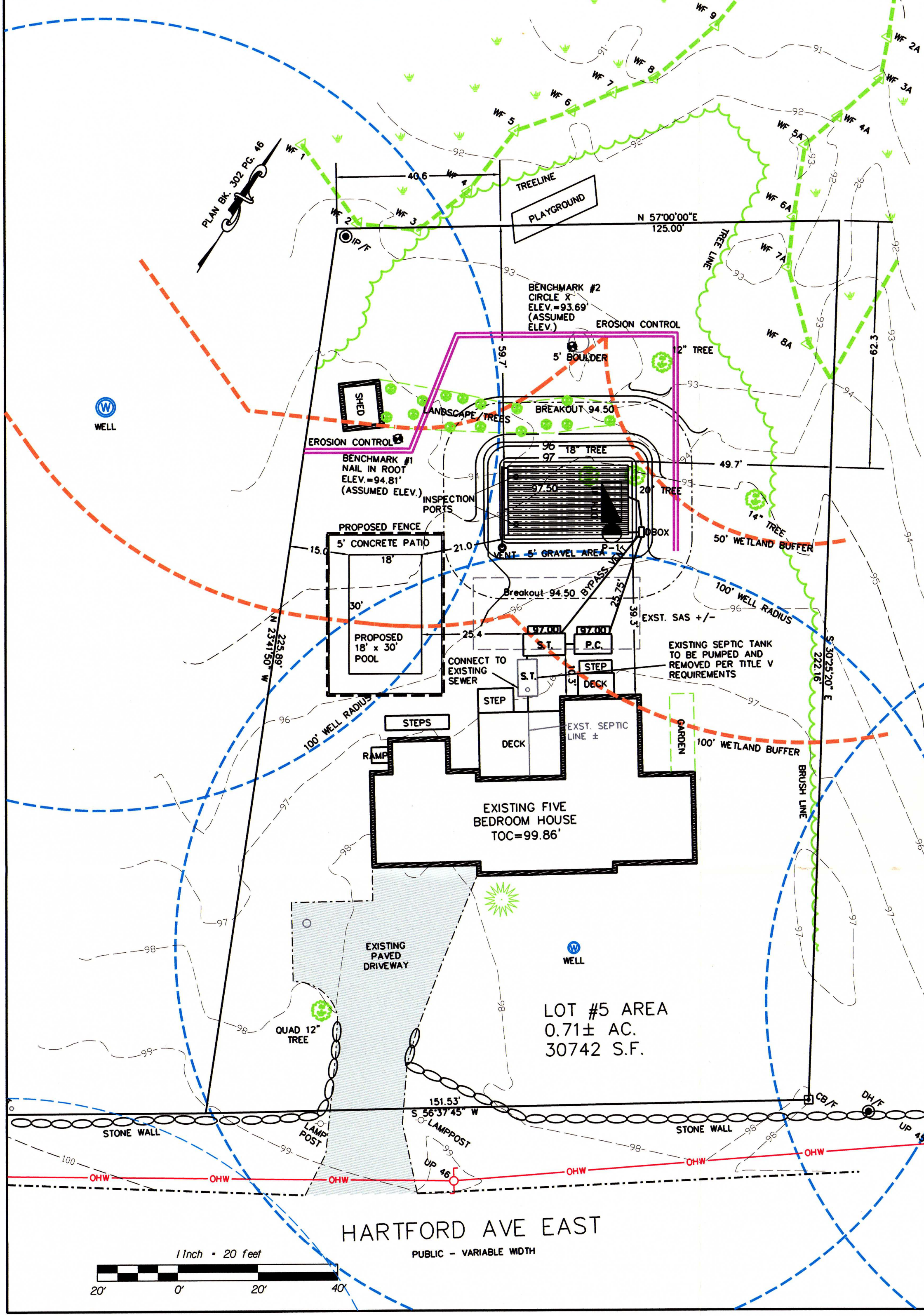
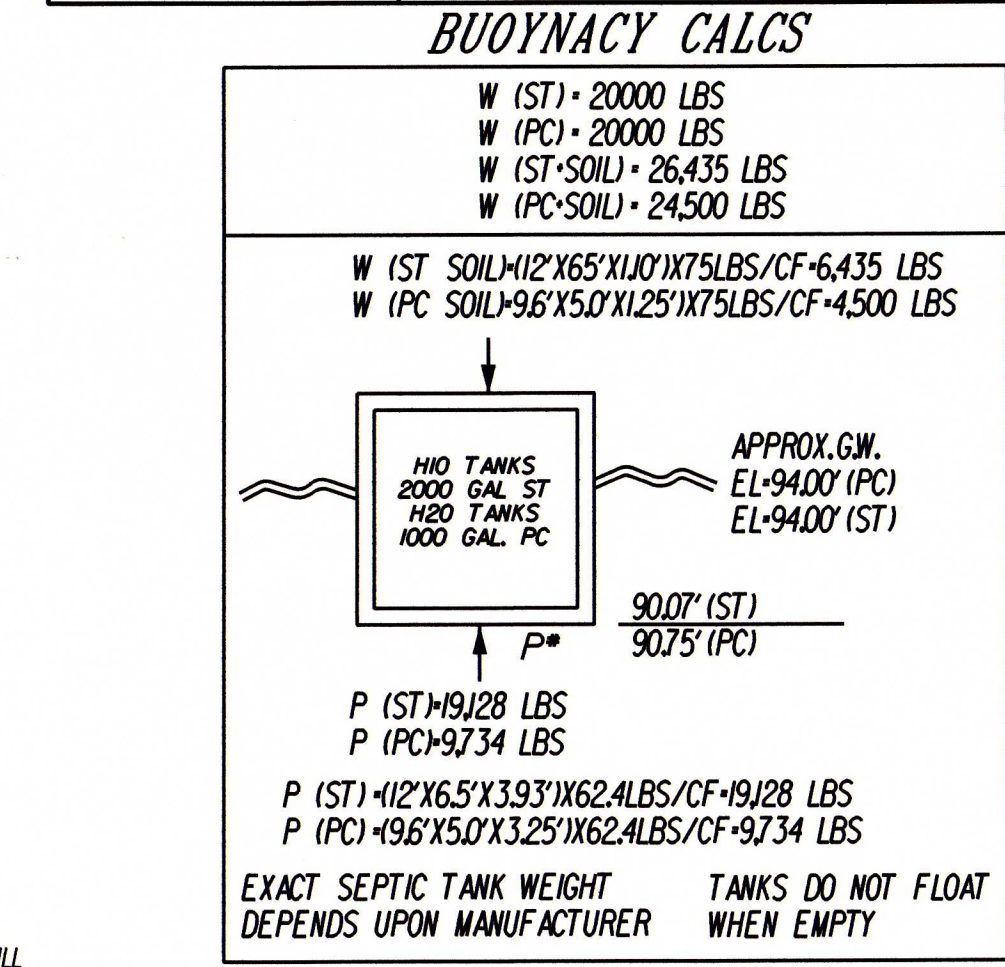
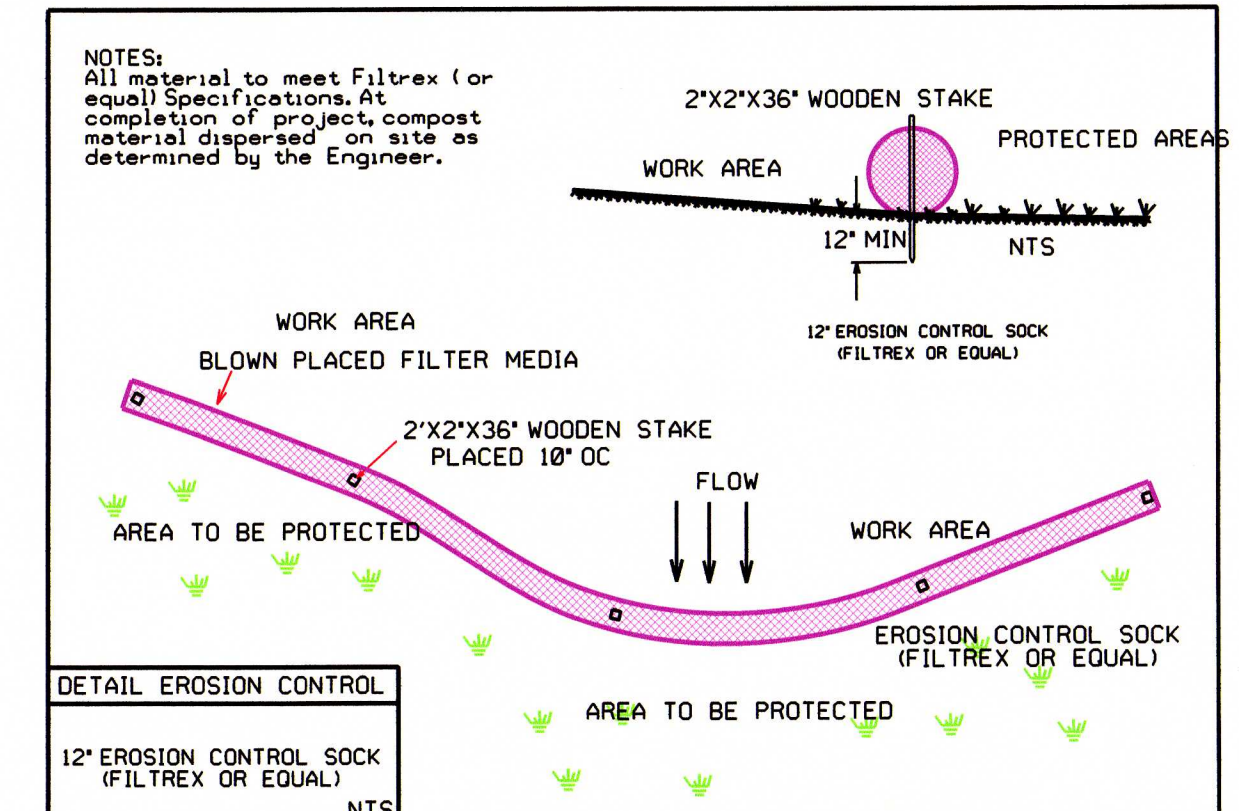
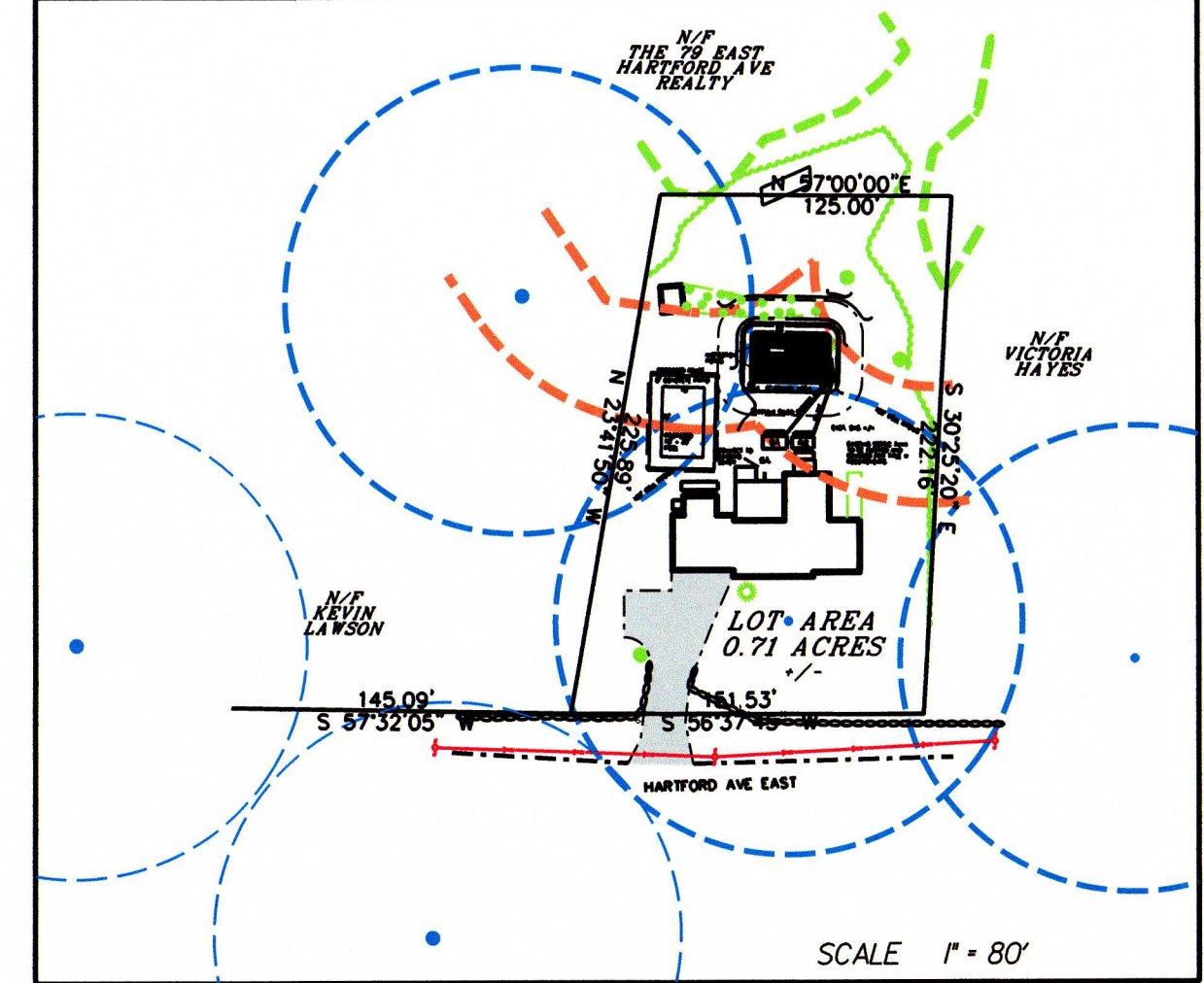


CONTRACTOR WILL NOTIFY DIG-SAFE PRIOR TO CONSTRUCTION

YES ; NO SEE BUOYANCY CALCULATIONS

INSPECTION SCHEDULE

- BOTTOM OF EXCAVATION PRIOR TO PLACEMENT OF FILL
- AFTER COMPLETION OF THE SYSTEM PRIOR TO BACKFILLING
- ROUGH AND/OR FINAL GRADING
- SLOPE STABILIZATION



LOCAL UPGRADES

PER 310 CMR 15.405 A LOCAL UPGRADE IS REQUIRED TO REDUCE THE ESTIMATED GROUNDWATER OFFSET FROM THE BOTTOM OF THE SOIL ABSORPTION SYSTEM FROM 4' TO 2'. UNDER THE PRESBY ENVIRONMENTAL INC'S DEP'S REMEDIAL USE APPROVAL LETTER, DATED 9/26/2014, A 2' GROUNDWATER SEPERATION IS CONDITIONALLY APPROVED IF IT MEETS THE REQUIREMENTS UNDER SPECIAL CONDITIONS #4.

NOTES

INSTALLER SHALL INSTALL THE SYSTEM IN ACCORDANCE WITH THE PRESBY WASTEWATER TREATMENT SYSTEM'S MA ENVIRO-SEPTIC DESIGN AND INSTALLATION MANUAL AND THE CONDITIONS AS SET FORTH IN DEPARTMENT OF ENVIRONMENTAL PROTECTION'S CERTIFICATION FOR THE PRESBY ENVIRO-SEPTIC SYSTEM ISSUED ON SEPTEMBER 26, 2014.

ALL EXST. SUBSURFACE UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. THE ENGINEER DOES NOT CERTIFY LOCATIONS OR ELEVATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM LOCATION AND ELEVATION OF EXISTING SEWER PRIOR TO SYSTEM INSTALLATION.

PROPERTY LINES ON THIS PLAN WERE COMPILED FROM RECORD DEEDS AND PLANS. THIS PLAN NOT TO BE USED TO ESTABLISH PROPERTY LINES

NO GARBAGE DISPOSAL UNITS ALLOWED.

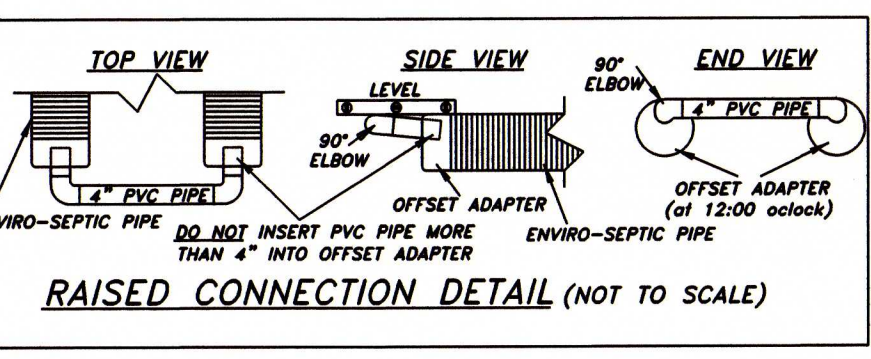
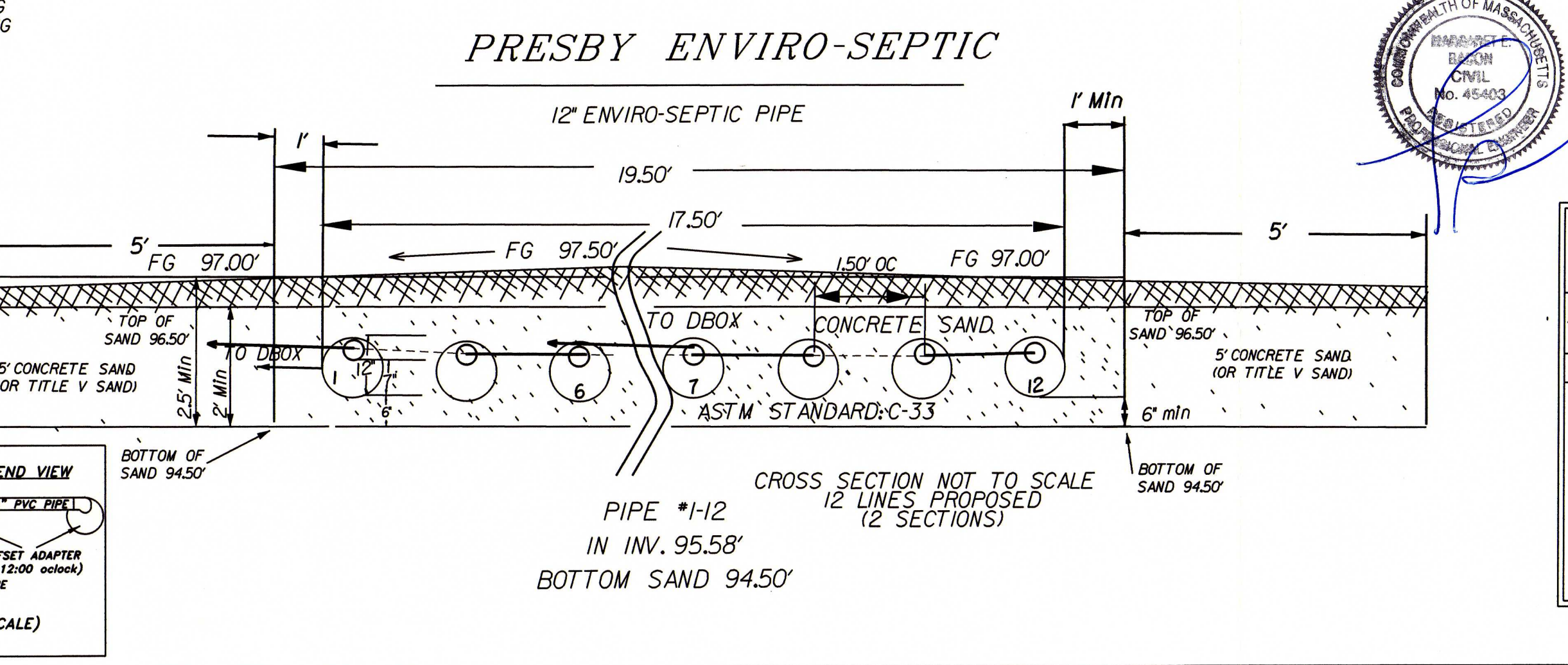
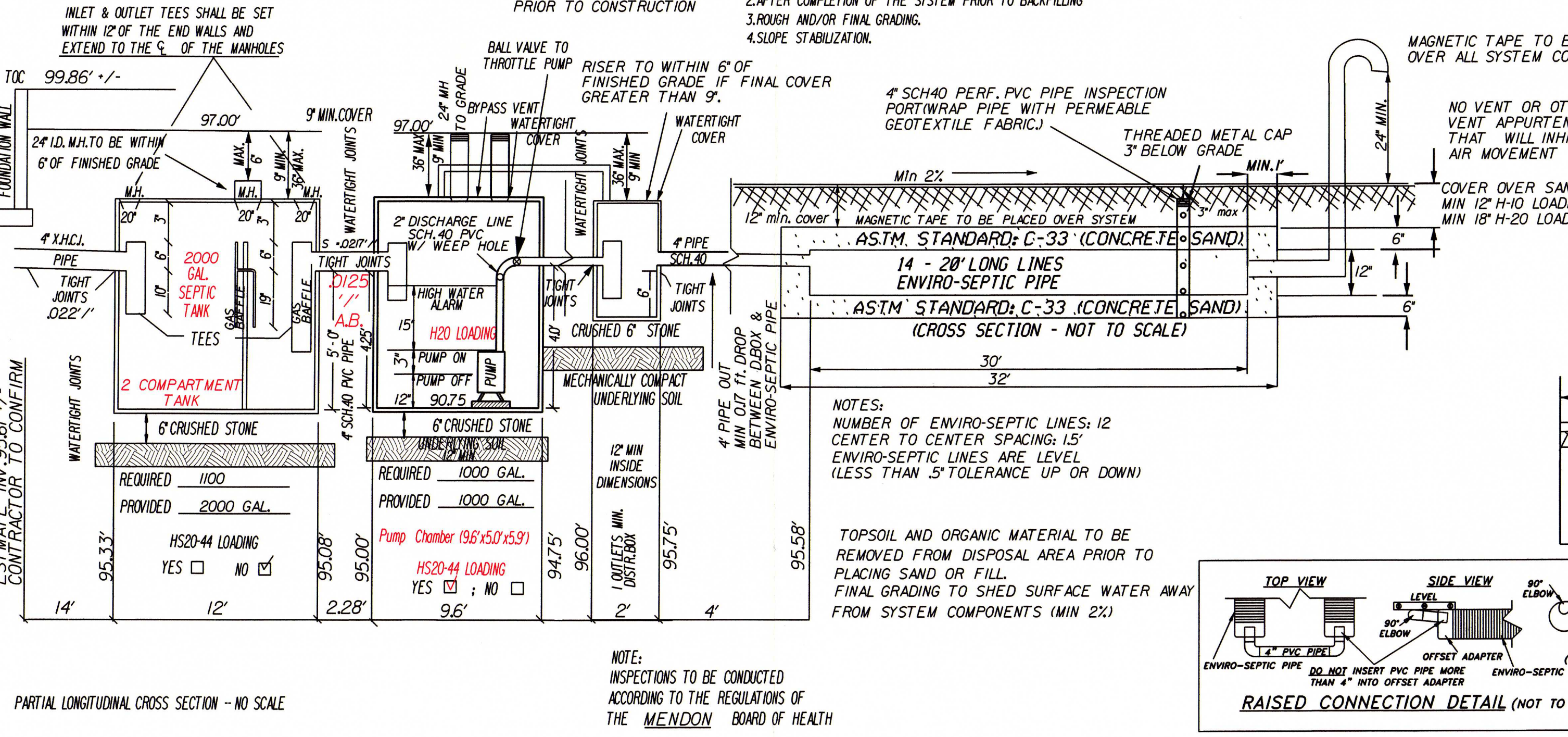
TOPOGRAPHIC SURVEY WAS CONDUCTED IN MARCH 2021

WETLANDS HERE DELINEATED BY MARGARET BACON IN MARCH 2021

NEITHER ENGINEER OR BOARD OF HEALTH CAN OFFER A GUARANTEE OF LONGEVITY OF THE SEWAGE DISPOSAL SYSTEM. SYSTEM WAS DESIGNED IN ACCORDANCE WITH TITLE V AND STANDARD ENGINEERING PRACTICES. PROPER USE AND MAINTENANCE ARE KEY IN ENSURING THE LIFE AND FUNCTIONALITY OF THIS SYSTEM.



PLAN BOOK 302 PLAN 46
 DEED BOOK BOOK 53675 PAGE 253
 OWNER AJ BYRNE JR. AND DANIELLE BYRNE
 ADDRESS 73 HARTFORD AVE. E
 ASSESSORS MAP # 13 / 140
 LOT # 5
 ZONE RESIDENTIAL



REPAIR

SEWAGE DISPOSAL SYSTEM FOR

AJ BYRNE JR AND DANIELLE BYRNE
 73 HARTFORD AVE E
 MENDON MA 01756

DATE: MAY 3, 2021 SCALE: 1" = 20'

CIVIL SITE ENGINEERING
 10 RIVER ROAD
 UXBIDGE MA 01569
 508-779-0018
 SITE PLANNING SEPTIC DESIGN WETLANDS