

**"SOIL LOGS"**

EL. 105.00'	D.T.H. #1
EL. 104.00'	0'-12" Ap 10YR 3/2 FSL
EL. 102.00'	12'-36" Bw 10YR 6/8 FSL
EL. 97.58'	36'-89" C 2.5Y 6/3 SL 10YR 20% GRAVEL

MOTTLES @ 36"  
WEAVING @ 6"  
STANDING @ 84"  
EST. GROUNDWATER @ 36"

**SOIL EVALUATOR: MARGARET BACON SE\* 2857**

\*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, EXPERISE, AND EXPERIENCE DESCRIBED IN 30 CMR 15.08 12:

OTHER PERSONS ON SITE AT TESTING: ADC SEPTIC (BACKHOE)	PERCOLATION RATE	30 MPI
DATE SOIL EVALUATION	12/2/2020	
DATE PERCOLATION TEST	12/2/2020	
INSPECTOR	TOM RYDER	
TESTING APPLICANT:	ERIC SIMPSON & MICHELLE CHASTENAY	

**"CONSTRUCTION NOTES"**

- EXCAVATE ALL IMPERVIOUS MATERIAL INCLUDING TOP & SUB SOILS, SILT, CLAY, ETC. TO PERVIOUS MATERIAL IN TRENCH AREA AND IN FIVE FOOT (5') GRAVEL AREA.
- THE GRAVEL SHALL BE PLACED ACCORDING TO SEC. 15.25 SUB-SECTION 3 TO 6.
- ELEVATION OF TITLE V CONCRETE SAND TOP OF SAND 106.00'
- PRESSURE ENVIRO LINES TO BE 25' OC.
- BOTTOM OF SYSTEM ASTM C-33 SAND.
- GAL. OUTLET PIPES FROM THE DISTRIBUTION BOX TO HAVE A MIN. DROP OF 0.07' 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 UNUSED OUTLETS.
- LOAM & SEED ALL DISTURBED AREAS, (ENVIRONMENTAL MATTING ON SLOPES > 50%)
- CONSTRUCTION OF SEPTIC TANK, LOSING CHAMBER & DISTRIBUTION BOX SHALL CONFORM WITH 30 CMR 15.221 THROUGH 15.226.

**ADDITIONAL NOTES**

- TOWN PERMIT \*
- SEPTIC TANK TO BE PUMPED ANNUALLY
- WELL TO BE TESTED EVERY TWO YEARS
- PLAN  IS,  IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE, FEMA MAP 25027C1030E
- KNOWN EASEMENTS ON LOT, YES ; NO
- SYSTEM LOCATED IN NITROGEN SENSITIVE AREA AS DEFINED BY THE MA DEP OR TITLE V, YES ; NO

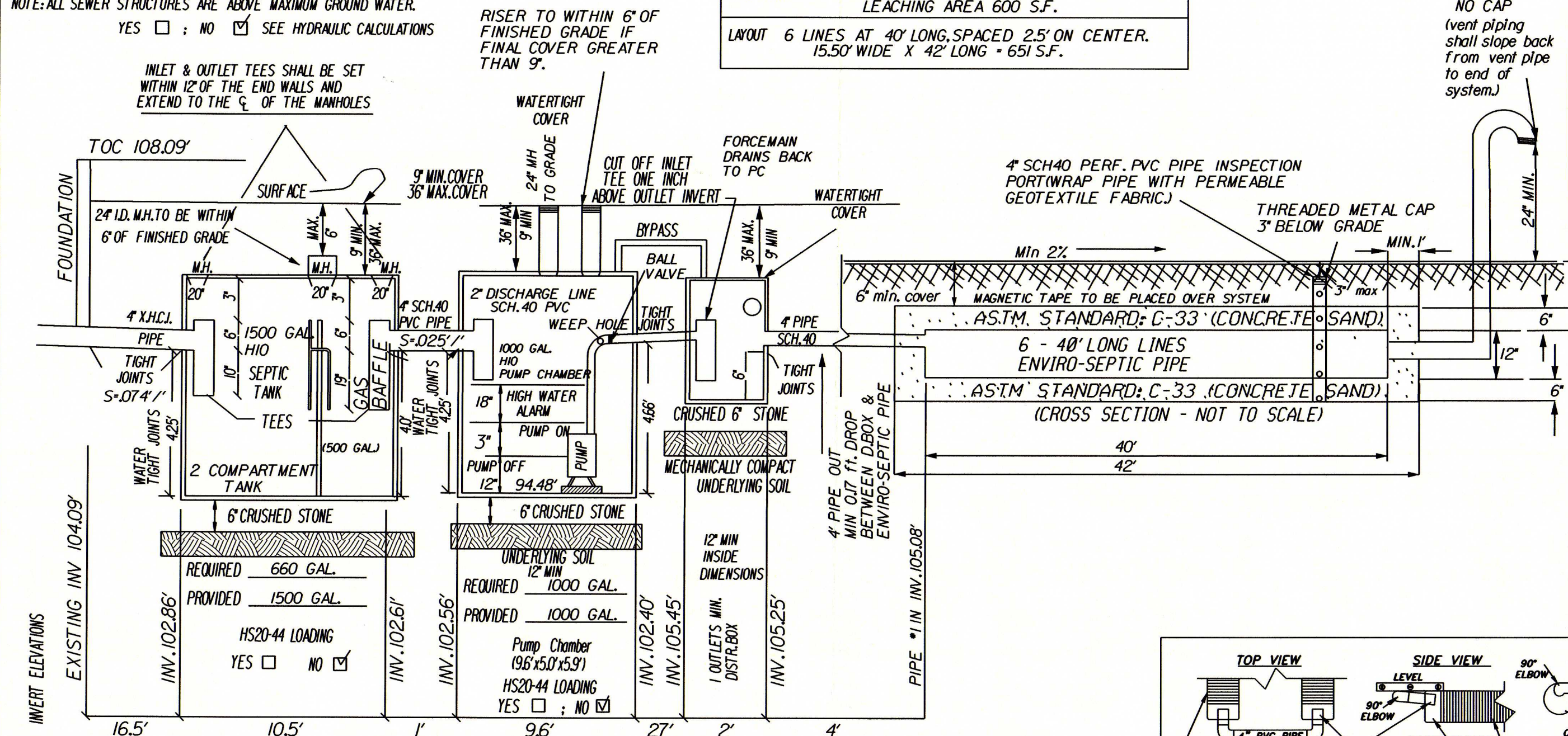
**DESIGN INFORMATION**

- DESIGN RATE 30 MPI
- SLOPE OF SYSTEM TO BE LEVEL
- 20 LINEAL FEET OF ENVIRO PIPE REQUIRED
- USE 20 LINEAL FEET
- NO GARBAGE DISPOSAL UNIT
- 3 BEDROOM HOUSE - DAILY FLOW 330 GPD
- NO OTHER WELL WITHIN 200 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,  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.

**NOTE: ALL SEWER STRUCTURES ARE ABOVE MAXIMUM GROUND WATER.**  
YES ; NO  SEE HYDRAULIC CALCULATIONS

RISER TO WITHIN 6" OF FINISHED GRADE IF FINAL COVER GREATER THAN 9".

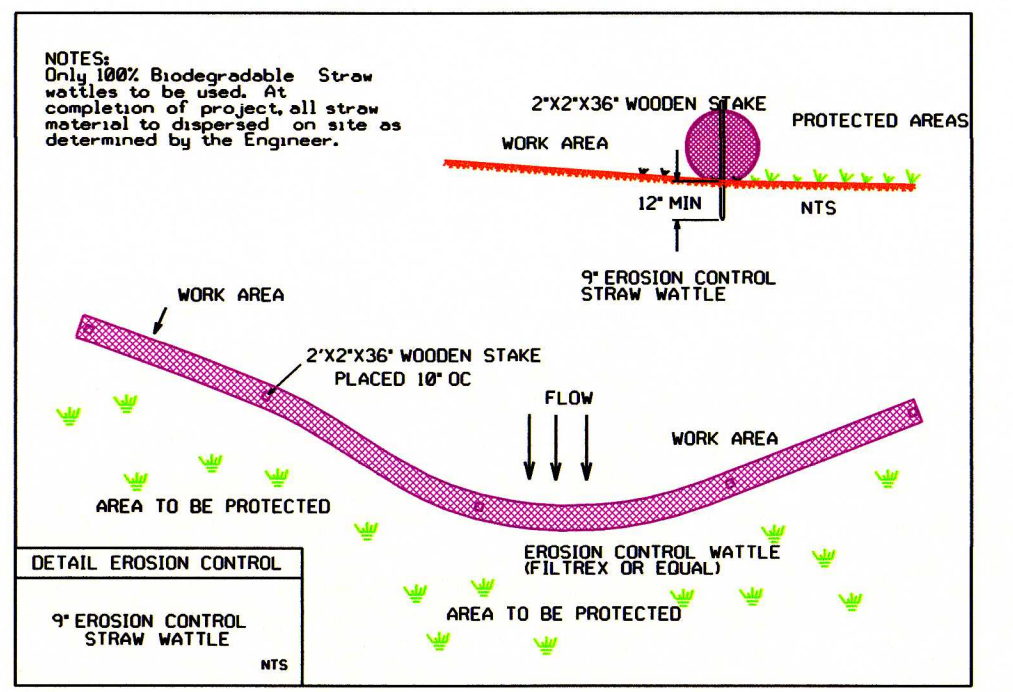
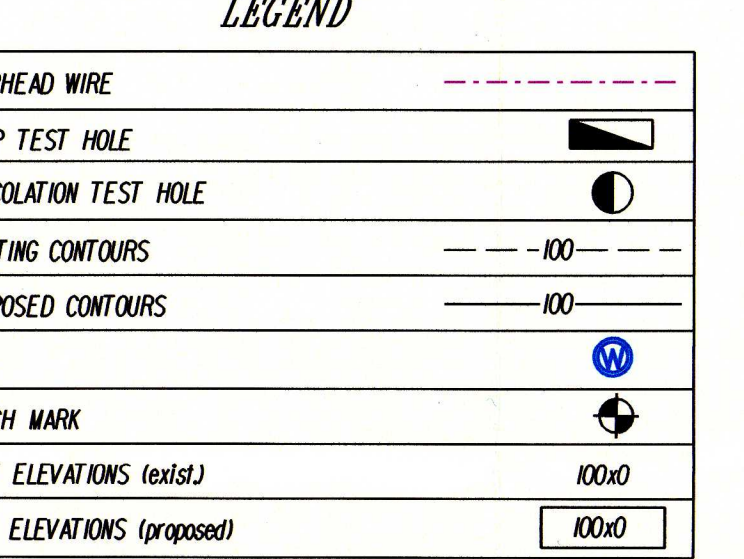
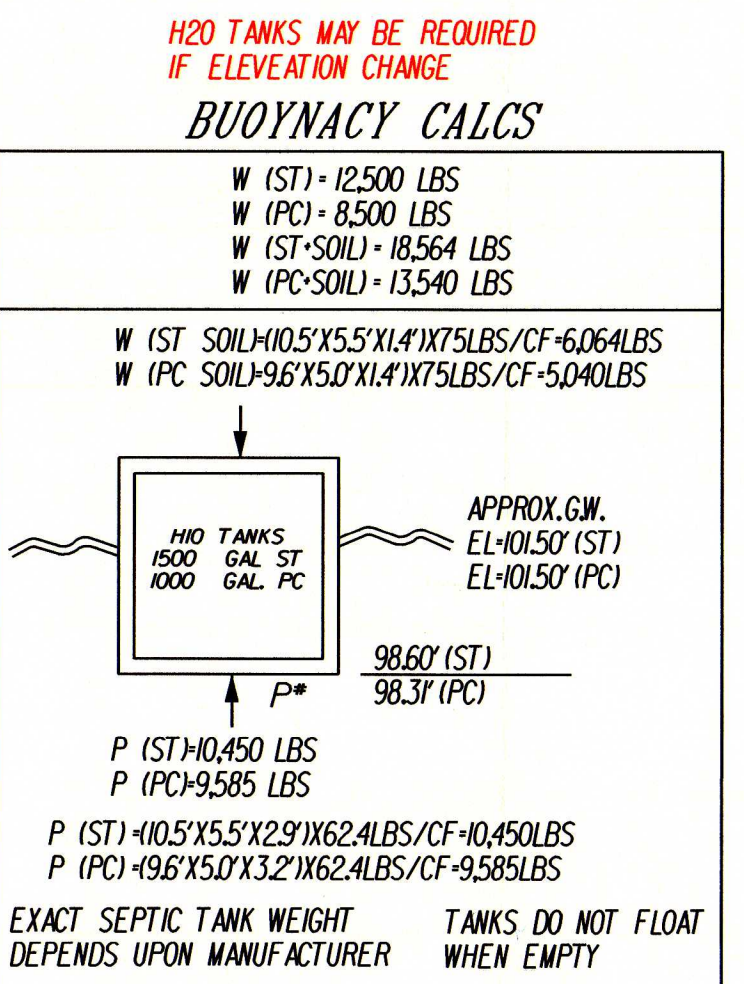
INLET & OUTLET TEES SHALL BE SET WITHIN 12" OF THE END WALLS AND EXTEND TO THE C OF THE MANHOLES



**INSPECTION SCHEDULE**

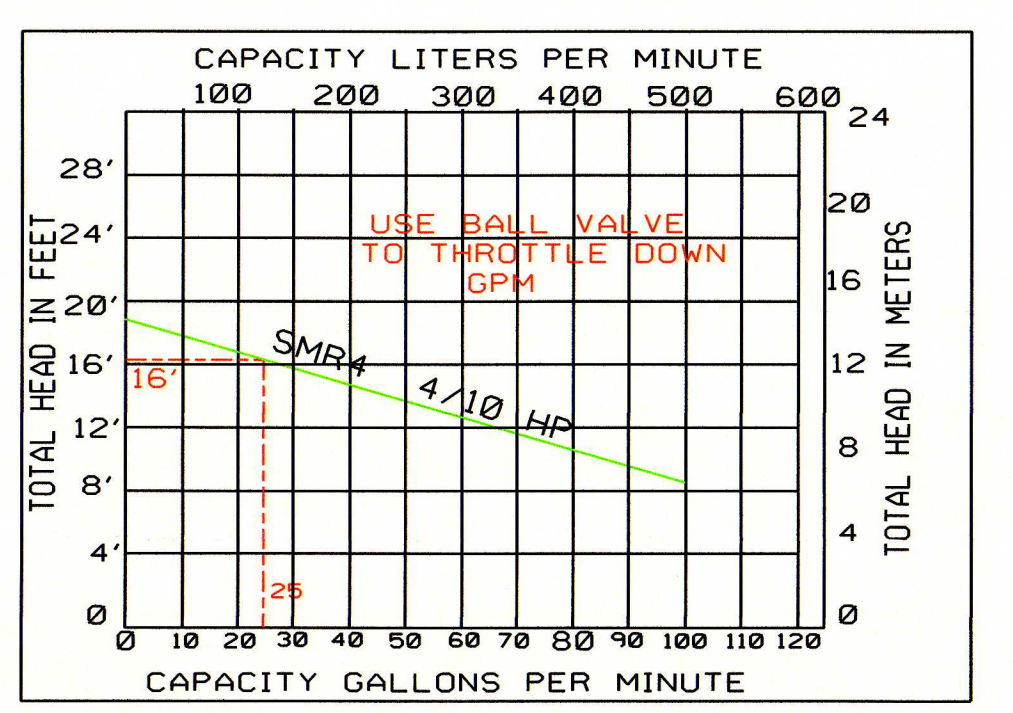
- BOTTOM OF EXCAVATION PRIOR TO PLACEMENT OF FILL
- AFTER COMPLETION OF THE SYSTEM PRIOR TO BACKFILLING
- ROUGH AND/OR FINAL GRADING
- SLOPE STABILIZATION

NOTE: INSPECTIONS TO BE CONDUCTED ACCORDING TO THE REGULATIONS OF THE MENDON BOARD OF HEALTH



**EJECTOR PUMP DATA**

1. USE MYERS MODEL SRM4 0.4 HP (2" SOLIDS) OR EQUAL
2. FLOOR OF PUMP CHAMBER ELEV. 94.48'
3. PUMP OFF (12" ABOVE FLOOR) ELEV. 95.48'
4. PUMP ON (15" ABOVE FLOOR) ELEV. 95.7.3'
5. HIGH WATER ALARM ON (13" ABOVE FLOOR) ELEV. 97.23'
6. DOSE SET AT 55 GAL. (3 GALLONS FLOW BACK TO P.C.)
7. 2-22 MIN. RUNNING TIME @ 25 GPM (TDH @ 16')
8. ALARM SHALL BE POWERED BY A CIRCUIT SEPERATE FROM THE PUMP CIRCUIT. PROVIDE VISUAL AND AUDIO ALARM
9. FORCE MAIN TO DRAIN BACK INTO PUMP CHAMBER
10. DOSE SET APPROX. SIX TIMES DAILY



**PRESBY ENVIRO-SEPTIC LOADING CALCULATIONS**

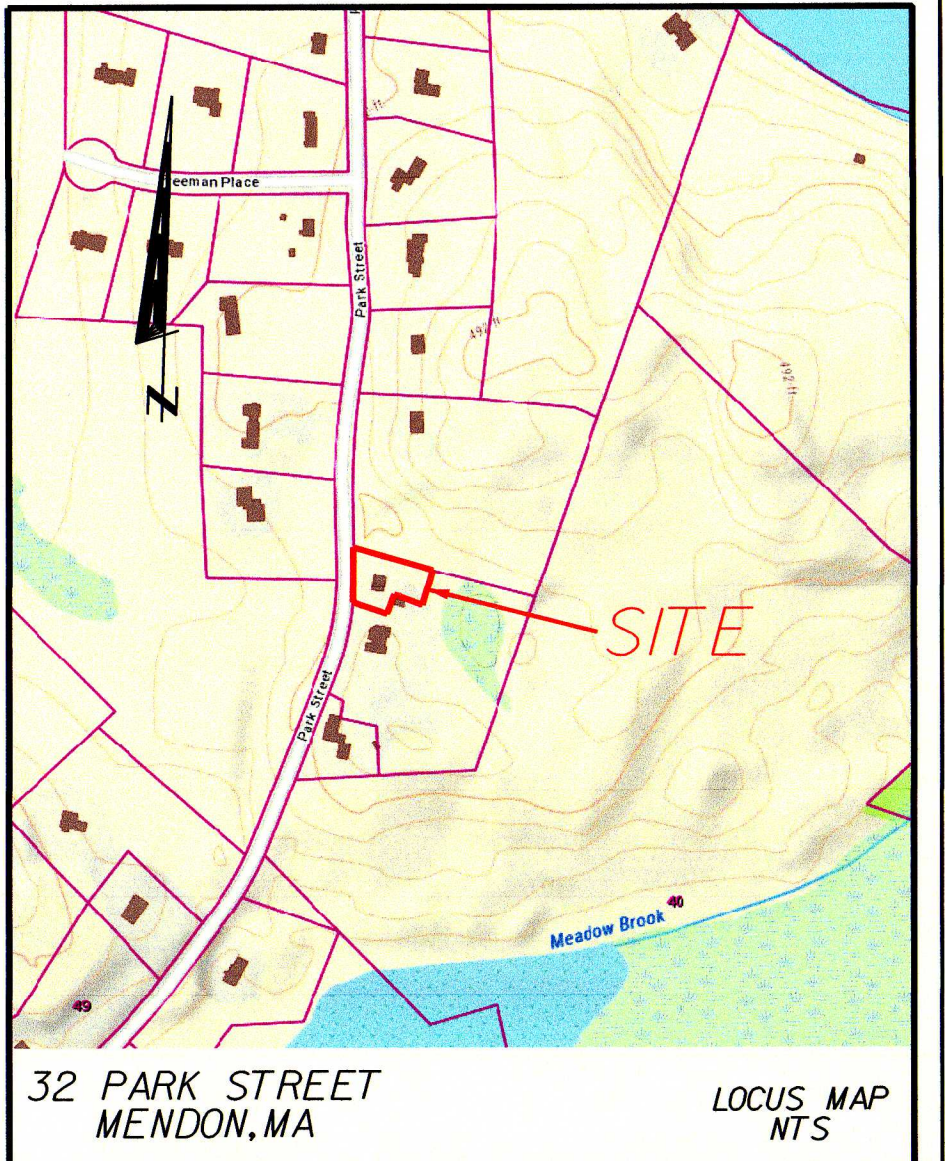
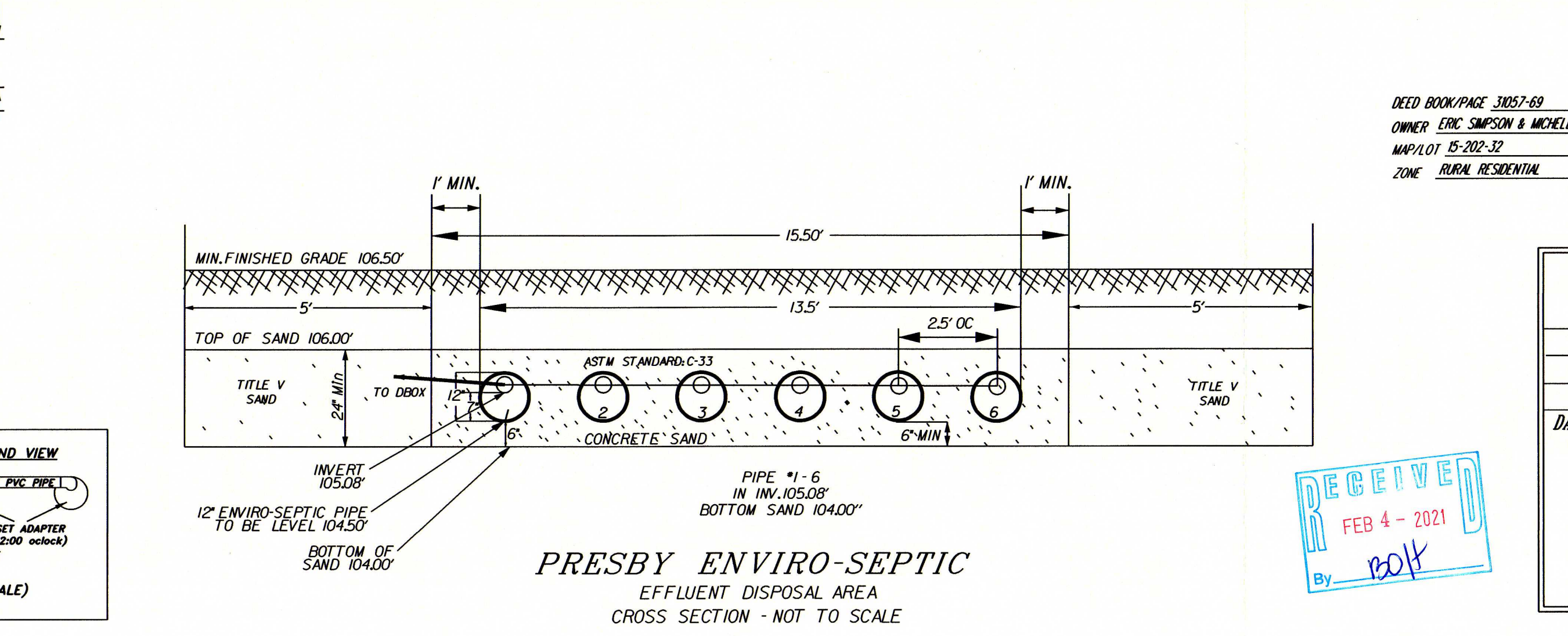
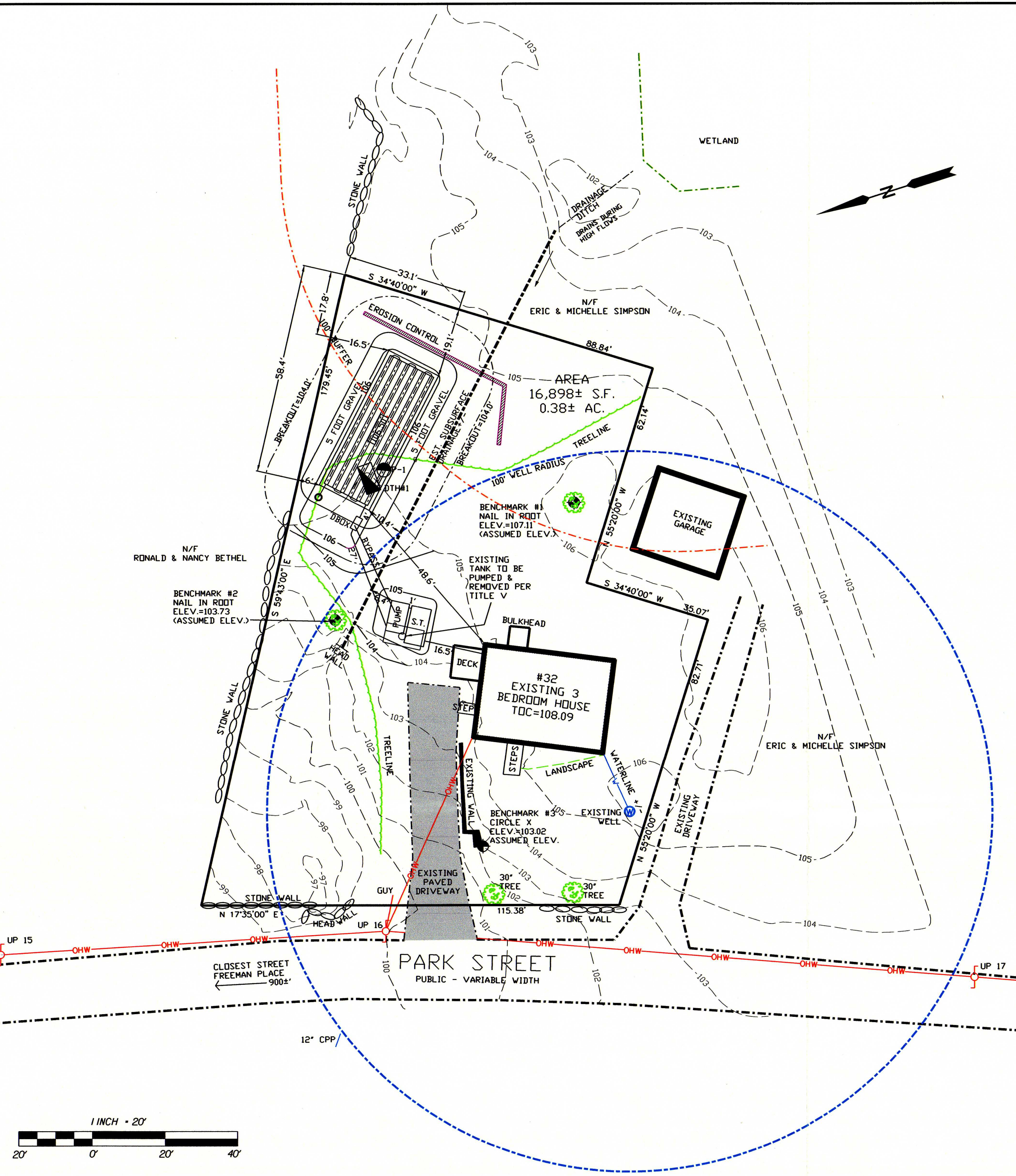
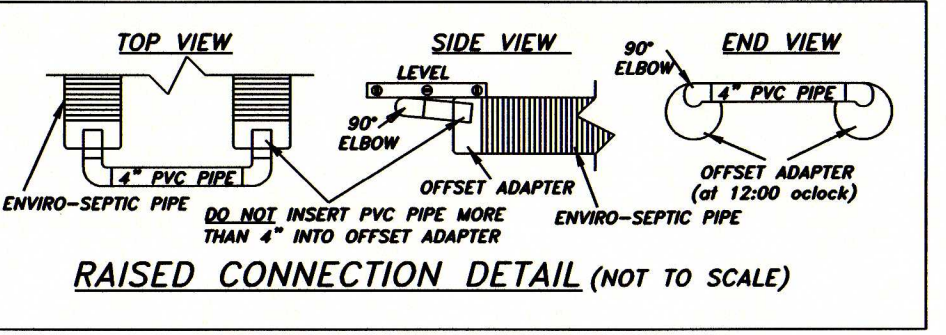
ENVIRO-SEPTIC PIPE DIAMETER 12"

PER TITLE V MIN. OF 600 SF. FOR LEACHING AREA, 210 LF. OF ENVIRO PIPE FOR 3 BDRM DESIGN WITH A PERC RATE OF 30 MPI.

LENGTH OF PIPE 210 LF. @ 40' LENGTHS AT 2.5' O.C.

BED AREA PER DEP MINIMUM EFFECTIVE LEACHING AREA 600 SF.

LAYOUT 6 LINES AT 40' LONG, SPACED 2.5' ON CENTER. 15.50' WIDE X 42' LONG = 651 SF.



**LOCAL UPGRADE APPROVAL**

PER 30 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 9/12/2015, A 2' GROUNDWATER SEPERATION IS CONDITIONALLY APPROVED IF IT MEETS THE REQUIREMENTS UNDER SPECIAL CONDITIONS #4.

REQUEST A WAIVER FROM THE PROPERTY LINE OFFSET FROM 10' TO 6'.

INSTALLER SHALL INSTALL THE SYSTEM IN ACCORDANCE WITH THE PRESBY WASTEWATER TREATMENT SYSTEM'S MA ADVANCED 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 12, 2015.

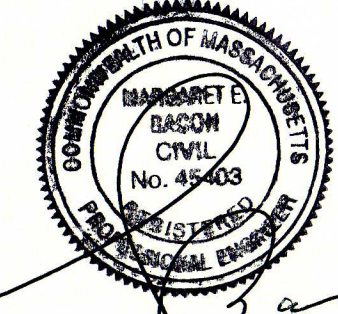
ALL EXST. SUBSURFACE UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. THE ENGINEER DOES NOT CERTIFY LOCATIONS OR ELEVATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM LOCATION AND ELEVATION OF EXISTING SEWER.

TOPOGRAPHIC SURVEY WAS CONDUCTED IN NOVEMBER, 2020.

THIS PLAN TO BE USED FOR A SEPTIC DESIGN PLAN ONLY. THIS PLAN IS NOT TO BE USED TO ESTABLISH PROPERTY LINES. PROPERTY INFORMATION WAS COMPILED FROM RECORDED DEEDS AND PLANS.

ANY EXISTING GARBAGE DISPOSALS TO BE REMOVED. CONTRACTOR TO NOTIFY ENGINEER IF FIELD CONDITIONS CHANGE OR ARE DIFFERENT THAN WHAT IS REPRESENTED ON THIS PLAN.

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.



CONTRACTOR WILL NOTIFY DIG SAFE PRIOR TO CONSTRUCTION

DEED BOOK/PAGE 30057-69  
OWNER ERIC SIMPSON & MICHELLE CHASTENAY  
MAP/LOT B-202-32  
ZONE RURAL RESIDENTIAL

REVISION #	DESCRIPTION	DATE
#1	REVISE SYSTEM TO INCLUDE SUBSURFACE DRAINAGE AND BUFFER ZONE	JAN 25, 2021

**REPAIR SEWAGE DISPOSAL SYSTEM FOR ERIC SIMPSON & MICHELLE CHASTENAY**

32 PARK STREET  
MENDON, MA 01756

DATE: DECEMBER 10, 2020 SCALE: 1" = 20'

**CIVIL ENGINEERING**

PO BOX 248  
80 MAPLE ST.  
DOUGLAS MA 01916

SITE PLANNING SEPTIC DESIGN WETLANDS

