

HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRANNING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.018 (2)."

OTHER PERSONS ON SITE AT	TESTING: ADC SEPTIC (Backhoe		
PERCOLATION RATE	SEE LAB.RESULTS *		
DATE SOIL EVALUATION	3/5/2020		
DATE PERCOLATION TEST	3/5/2020		
INSPECTOR	LEONARD IZZO		
TESTING APPLICANT:	ALFRED DAPRATO		
"ACANOMDIAMIAN NAMBO"			

"CONSTRUCTION NOTES" I.EXCAVATE ALL IMPERVIOUS MATERIAL INCLUDING TOP & SUB SOIL; SILT; CLAY; ETC TO PERVIOUS MATERIAL IN TRENCH AREA AND IN FIVE FOOT (5') GRAVEL AREA. 2.THE GRAVEL SHALL BE PLACED ACCORDING TO SEC. 15:255 SUB-SECTION 3 TO 6. 3.ELEVATION OF TITLE V CONCRETE SAND TOP OF SAND 412.00' 4.PRESBY ENVIRO LINES TO BE 20' O.C. BOTTOM OF SAND 410.00'

5.BOTTOM OF ENVIRO-PIPES TO BE LEVEL. 410.50' 6.ALL OUTLET PIPES FROM THE DISTRIBUTION BOX TO HAVE A MIN.DROP OF 0,17' TO INLET OF ENVIRO PIPE 7.NO SURFACE,SUBSURFACE OR OPEN DRAINS THAT INTERCEPT GROUNDWATER WITHIN

8.ENGINEER TO INSPECT BOTTOM EXCAVATION OF LEACHING AREA PRIOR TO GRAVEL PLACEMENT 9.HYDRAULIC CEMENT TO BE USED TO SEAL CONNECTIONS AT THE FOUNDATION, SEPTIC TANK, DIST.BOX. & ALL UNUSED OUTLETS.

 $\underline{25}$ FEET OF THE SEPTIC TANK OR $\underline{50}$ FEET FROM THE LEACHING SYSTEM.

II.LOAM & SEED ALL DISTURBED AREAS.(ENVIRONMENTAL MATTING ON SLOPES > 50%) 2.CONSTRUCTION OF SEPTIC TANK, DOSING CHAMBER & DISTRIBUTION BOX SHALL CONFORM WITH 310 CMR 15,221 THROUGH 15,226

ADDITIONAL NOTES I.TOWN PERMIT * 2.SEPTIC TANK TO BE PUMPED ANNUALLY

3.WELL TO BE TESTED EVERY TWO YEARS 4.PLAN ☐ IS, ☐ IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE. FEMA MAP 25027C1031E 5.KNOWN EASEMENTS ON LOT. YES 🗆: NO 🗹 6.SYSTEM LOCATED IN NITROGEN SENSITIVE AREA

AS DEFINED BY THE MA DEP OR TITLE V. YES □ : NO ☑

DESIGN INFORMATION I.DESIGN RATE <u>30 MP1</u> 2.SLOPE OF SYSTEM TO BE LEVEL

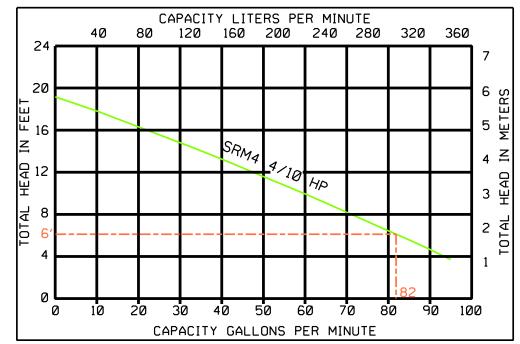
3.140 LINEAL FEET OF ENVIRO PIPE REQUIRED Minimum of 400 SF required. 4.USE 180 LINEAR FEET 416 SF provided 5.NO GARBAGE DISPOSAL UNIT 6.<u>1</u> BEDROOM HOUSE; DAILY FLOW <u>DESIGNING FOR 220 g</u>pd 7.NO OTHER WELL WITHIN 200 FEET OF THE PROPOSED SYSTEM OTHER THAN SHOWN ON PLAN, NO OTHER SYSTEM WITHIN 100 FEET OF THE PROPOSED WELL OTHER THAN SHOWN ON PLAN.

8.WATER SOFTENERS SHALL NOT CONNECT TO SEPTIC TANK. 9.STORMWATER DRAINAGE ON SITE. YES □ : NO ☑ 10.POTABLE WATER SUPPLY (PUBLIC) ON SITE. YES □: NO ☑ II.LOT AREA □ IS. ☑ IS NOT TRIBUTARY TO A PUBLIC SURFACE WATER SUPPLY AND IS NOT LOCATED IN A ZONE 2 OF PUBLIC WELLS. 12.ALL KNOWN UTILITY LOCATIONS (APPROX.) ON SITE ARE SHOWN. 13.CONTRACTOR SHALL NOTIFY DIG-SAFE AT 1-888-344-7233

PRIOR TO CONSTRUCTION. 14. NO FOUNDATION DRAINS TO BE INSTALLED.

NOTE: ALL SEWER STRUCTURES ARE ABOVE MAXIMUM GROUND WATER. YES ☐; NO ☐ SEE BOUANCY CALCS PROTECTED AREAS

LOAM MA SECTION 15.243 CLASS II UN-COMPACTED SOIL: 0.33 GPD / SF



EJECTOR PUMP DATA

5.HIGH WATER ALARM ON (26" ABOVE FLOOR) ELV. 406.52'

6.DOSE SET AT 35 GAL (2 GALLON FLOWS BACK TO P.C.)

II.PUMP SHALL BE EQUIPPED WITH A TRANSFER SWITCH TO ALLOW

12.WEEP HOLE REQUIRED BETWEEN PUMP CHECKVALVE AND OUTLET

PRESBY ADVANCED ENVIRO-SEPTIC LOADING CALCULATIONS

2.FLOOR OF PUMP CHAMBER ELV. 404.35

3.PUMP OFF (12"ABOVE FLOOR) ELV. 405.35

4.PUMP ON (15" ABOVE FLOOR) ELV. 405.60'

7.+/-.5 MIN.RUNNING TIME @ 82 GPM (TDH @ 6')

FROM THE PUMP CIRCUIT

ENVIRO-SEPTIC PIPE DIAMETER 12"

BED AREA

DESIGN WITH A PERC RATE OF 30 MPI.

10.DOSE SET APPROX. SIX TIMES DAILY

CONNECTION TO A PORTABLE GENERATOR

8. ALARM SHALL BE POWERED BY A CIRCUIT SEPERATE

9.FORCE MAIN TO DRAIN BACK INTO PUMP CHAMBER

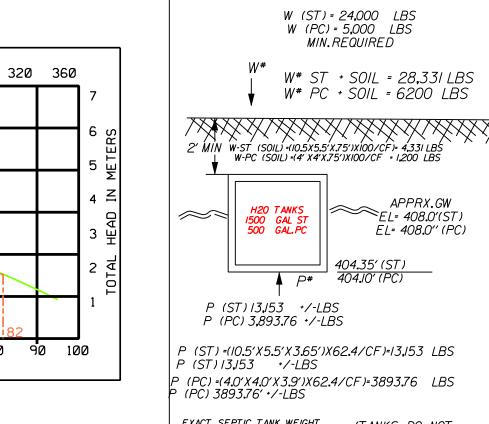
PER TITLE V MIN.OF 400 SF FOR LEACHING AREA FOR 2 BDRM

LENGTH OF PIPE 140 LF OF ENVIRO SEPTIC PIPES REQ.

LAYOUT 6 LINES AT 30' LONG, SPACED 2.0' ON CENTER. 180 LF > 140 LF OK

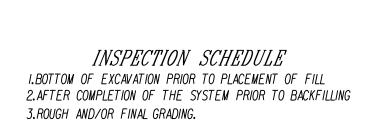
PER DEP MINIMUM EFFECTIVE

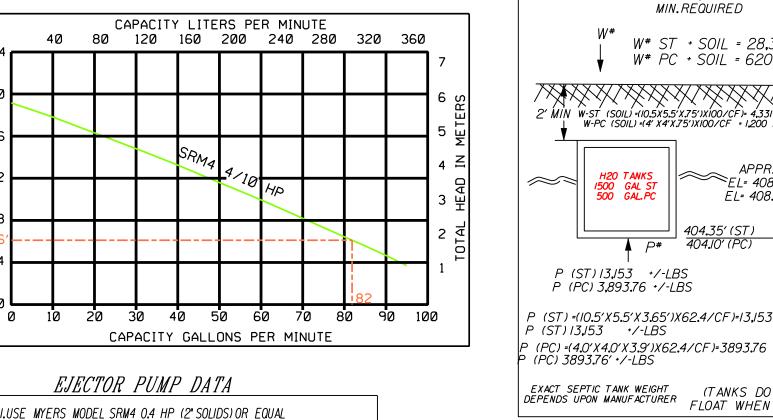
LEACHING AREA 400 SF

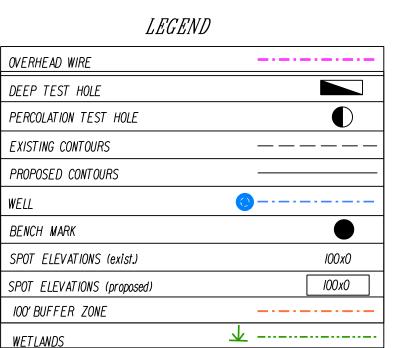


BOUANCY CALCS

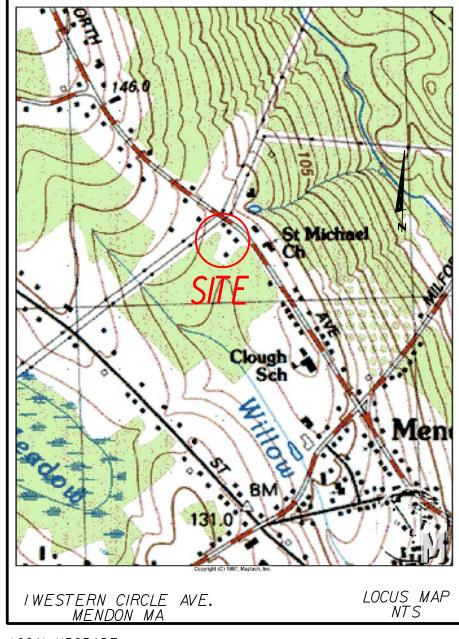












LOCAL UPGRADE

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 3'.

REQUEST THAT THE 100' WELL OFFSET BE REDUCED TO

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 ADVANCE ENVIRO-SEPTIC SYSTEM.

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

TOPOGRAPHIC SURVEY WAS CONDUCTED IN MARCH 2020

WETLANDS WERE DELINEATED BY MARGARET BACON PWS ON MARCH 5,2020.

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.

NEITHER THE 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.

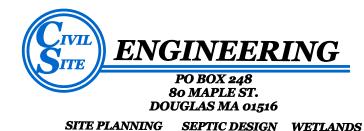
> PLAN BK 880 PLAN 105 PLAN BOOK PLAN BK 116 PLAN 2 DEED BOOK 61837 PAGE 161 OWNER ON THE FLIP SIDE LLC

ASSESSORS MAP # 8-244-1-0 LOT * I WESTERN CIRCLE AVE. ZONE _ ZONE I

REVISION #	DESCRIPTION	DATE







PLACING SAND OR FILL.

MIN.FINISHED GRADE 412.50' CONTRACTOR WILL PRESBY ADVANCED NOTIFY DIG SAFE PRIOR TO CONSTRUCTION ENVIRO-SEPTIC TOP OF SAND 412.00' EFFLUENT DISPOSAL AREA COVER OVER SAND MIN 12" H-10 LOADING MIN 18" H-20 LOADING BOTTOM OF SAND 410.00° FINISHED GRADE MIN.412.75' 13.00′ FINAL GRADING TO SHED SURFACE WATER AWAY FINISHED GRADE MIN.412.50' FINISHED GRADE MIN. 412.50 412.00' TOP OF SAND 412.00' · · ` ASTM STANDARD: C-33 5' CONCRETE SAND 5' CONCRETE SAND <u> CONCRETE</u> SAND : ` ` ` ` ` ` ` . SIDE VIEW 90° INV.411.08′ BOTTOM OF SAND 410.00' 12" ENVIRO-SEPTIC PIPE^ TO BE LEVEL 410.50′ PIPE #1 - 6 IN INV. 411.08' BOTTOM SAND 410.00' TOPSOIL AND ORGANIC MATERIAL TO BE BOTTOM OF SAND 410.00' REMOVED FROM DISPOSAL AREA PRIOR TO RAISED CONNECTION DETAIL (NOT TO SCALE) CROSS SECTION - NOT TO SCALE

13.0' WIDE X 32' LONG = 416 SF 416 SF > 400 SF OK 4.SLOPE STABILIZATION. INLET & OUTLET TEES SHALL BE SET WITHIN 12" OF THE END WALLS AND EXTEND TO THE & OF THE MANHOLES MAGNETIC TAPE TO BE PLACED OVER RISER TO WITHIN 6" OF SYSTEM COMPONENTS SILL EL. EXST. 411.38' FINISHED GRADE IF FINAL COVER `NO VENT CAP GREATER THAN 9". 24" MIN. SURFACE 36" MAX.COVER % P WATERTIGHT / WATERTIGHT 4" SCH40 PERF. PVC PIPE INSPECTION PORT. 4" I.D. M.H.TO BE WITHIN 5" OF FINISHED GRADE / COVER (WRAP PIPE WITH PERMEABLE GEOTEXTILE FABRIC.) TEE ONE INCH SO SO ABOVE OUTLET INVERT Min 2% → THREADED METAL CAP
3" BELOW GRADE PIPE 6" min. cover MAGNETIC TAPE TO BE PLACED OVER SYSTEM 2" DISCHARGE LINE SCH.40 PVC. ∴ ASTM, STANDARD: C-33 (CONCRETE) SAND) SEWER 6 - 30' LONG LINES TIGHT **♦** ENVIRO-SEPTIC PIPE S=.014'/' |S=.025 | JOINTS `. ASTM` STANDARD: C-33 (CONCRETE SAND) | (CROSS SECTION - NOT TO SCALE) ALARM GRUSHED STONE COMPARTMENT BAFFLE PUMP ON [30' (3- 10' long enviro-pipes) NINDERLY MG SOIL MONOLITHIC 12" PUMP OFF | ₹ TANK6" CRUSHED STONE 6" CRUSHED STONE NUMBER OF ENVIRO-SEPTIC LINES: 6 CENTER TO CENTER SPACING 2.0' INSIDE REQUIRED <u>440 GAL.</u> REQUIRED <u>440</u> DIMENSIONS ENVIRO-SEPTIC LINES ARE LEVEL (LESS THAN 0.5 "TOLERANCE UP OR DOWN) PROVIDED <u>500 GAL.</u> HS20-44 LOADING Pump Chamber (4.0'x4.0'x4.9') YES ☑ NO □ HS20-44 LOADING YES ♥ ; NO □ OFFSET ADAPTER ENVIRO-SEPTIC PIPE DO NOT INSERT PVC PIPE MORE THAN 4" INTO OFFSET ADAPTER INSPECTIONS TO BE CONDUCTED

ACCORDING TO THE REGULATIONS OF

THE MENDON BOARD OF HEALTH

PARTIAL LONGITUDINAL CROSS SECTION -- NO SCALE

PROJ. # S20106P.DGN