OBSERVAT	ΓΙΟΝ ΗΟ	DLE DAT	'A				T	
	SIEVE -		ATES OBSERN NDWATER	/ED				E FENCE
TEST PIT # 1 GF		03.61 97.61		<u>ATRICK H. CAF</u> BY: <u>TOM RYDER</u>	RRARA, III		ļ	
DATE: <u>01/07/2020</u>	<u>)</u>	*APPROVE		Y: <u>Patrick H. (</u> Uator Numbe				
ELEVATION SURFA	ACE SOIL H (IN.) HORZ.	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER			<u>-</u>
	55″ Fill				FILL, ROOTS			
	-61″ Ab	SANDY LOAM	10YR2/2	HONE 72" 30%	BURIED A HORIZON, ROOTS			101
61-	-81″ Bw	SANDY LOAM	10YR5/6	☐ 72 <sup>°</sup> 30% 7.5YR 5/8 5Y 6/2	MEDIUM	-	/	(D)
	132″ C1	SANDY LOAM	5Y5/3		UNSORTED FINE COARSE,	SIREL		03" W 5' (CALC'D)
92.61 SOIL	SAMPLE FOR	SIEVE ANAL	YSIS TAKEN	AT 90"±	SATURATED, UNCOMPACTED.	EMERSON		68.45'03 226.06' (
WEEPING OBSER STANDING OBSEI		EL.=96.86 I/A	PERC RATE PERC DEPTH		_min/inch _inches		80	t, (DEED) 226.06
STATE CODE LOCA	AL UPGRADE R	EQUESTS:						220 <del>1</del>
1. 310 CMR 15.40 PRIVATE ON-SITE LIMITED AREA AVA PROPERTY LINE, A	POTABLE WELL AILABLE TO SIT	L TO 76 FT. S.A.S. DUE	UPGRADE RE	QUESTED BASED	O ON THE			
2. 310 CMR 15.40 CLASSIFICATION A	05(1)(I) TO ALL ND A PERCOLA	OW SIEVE AN ATION RATE A	IALYSIS TO E	STABLISH SOIL FOR THE SOIL	CLASS.		· / /	
3. 310 CMR 15.40 EXISTING DWELLING		E THE 20 FT	. SETBACK F	ROM THE S.A.S.	. TO THE			
4 310 CMR 15 40		F THE 50 FT	SETRACK O					

THE PROPOSED WORK IS WITHIN THE JURISDICTION OF THE CONSERVATION

ELEVATION SCHEDULE	ELEVATION (Ft.)		
TOP OF FOUNDATION	106.46		
NEW SEWER INVERT AT FOUNDATION	103.35		
SEWER INVERT INTO SEPTIC TANK	103.14		
SEWER INVERT OUT OF SEPTIC TANK	102.89		
SEWER INVERT INTO D-BOX	102.57		
SEWER INVERT OUT OF D-BOX	102.40		
SEWER INVERT INTO LEACHING SYSTEM	102.28		
TOP OF CHAMBER (BREAKOUT)	102.78		
BOTTOM OF LEACHING FIELD	101.70		
WATER TABLE (TP)	97.61		
<b>ΠΕςι</b> ζΝΙ ΠΑΤΑ			

DESIGN FLOW	4 BEDROOMS x 110 GPD/BEDROOM = 440 GPD
SEPTIC TANK REQUIRED:	<ul> <li>440 GPD x 200% = 880 GALLONS.</li> <li>MIN. 1,500 GALLON SEPTIC TANK REQUIRED <u>MULTIPLE COMPARTMENT TANKS</u></li> <li>FIRST COMPARTMENT / TANK:</li> <li>48 HRS. HYDRAULIC DETENTION = <u>880</u> GAL CAPACITY PROVIDED = <u>1,000</u> GAL</li> <li>SECOND COMPARTMENT / TANK:</li> <li>24 HRS. HYDRAULIC DETENTION = <u>440</u> GAL CAPACITY PROVIDED = <u>500</u> GAL</li> </ul>
LEACHING AREA REQUIRED:	SIEVE ANALYSIS: 77.7% SAND, 8.6% SILT & 13.7% CLAY; SANDY LOAM – CLASS II SOIL USE EFFLUENT LOADING RATE OF 0.33* GPD/SF 440 GPD/0.33* GPD/SF=1,334 S.F. * PER DEP POLICY "TITLE 5 ALTERNATIVE TO PERCOLATION TESTING GUIDANCE FOR SYSTEM UPGRADES" EFFECTIVE DATE: MAY 3, 2006.
LEACHING AREA PROVIDED:	5 ROWS OF 11 ARC 36 CHAMBERS & 1 SIDE PORT COUPLE 55 TOTAL CHAMBERS & 5 SIDE PORT COUPLERS. 5 ROWS @ 56.17' x 4.8* SF/LF= 1,348.08 S.F. 1348.08 S.F. x 0.33 GPD/S.F. = 444.87 GPD SINCE 444.87 GPD > 440 GPD O.K.
	* EFFECTIVE LEACHING AREA PER TABLE 3 OF CERTIFICATION FOR GENERAL USE ISSUED TO INFILTRATOR WATER TECHNOLOGIES, LLC. ON JUNE 12, 2015 (TRANSMITTAL # X264258)



