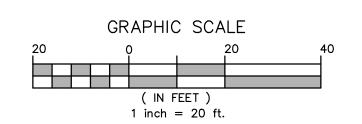


## **GENERAL NOTES**

- ALL MODIFICATIONS TO THIS PLAN MUST BE PREAPPROVED IN WRITING BY THE DESIGN ENGINEER AND THE LOCAL BOARD OF HEALTH.
- . ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH THE REQUIREMENTS OF THE LOCAL BOARD OF HEALTH AND THE STATE ENVIRONMENTAL CODE TITLE 5.
- 3. THE CONSTRUCTION OF PERMANENT STRUCTURES UPON THE DISPOSAL SYSTEM OR RESERVE AREA IS NOT ALLOWED.
- . TO OBTAIN A CERTIFICATE OF COMPLIANCE, THREE INSPECTIONS WILL BE REQUIRED BY THE DESIGN ENGINEER. 1) BOTTOM INSPECTION FOLLOWING THE EXCAVATION OF TOPSOIL & SUBSOIL, 2) FOLLOWING THE INSTALLATION OF THE SYSTEM COMPONENTS PRIOR TO BACKFILL, 3) FINAL GRADING.
- . MACHINERY THAT MAY CRUSH OR DISTURB THE PIPE SHALL NOT BE ALLOWED ON THE DISPOSAL
- 6. THIS SYSTEM WAS NOT DESIGNED TO FACILITATE A GARBAGE DISPOSAL.
- TOPSOIL, SUBSOIL, PEAT, FILL, AND OTHER IMPERVIOUS MATERIALS SHALL BE REMOVED FROM ALL AREAS WITHIN THE LEACHING FACILITY AND FOR A DISTANCE OF 5 FEET IN ALL DIRECTIONS
- 3. WHERE A SEWAGE DISPOSAL SYSTEM IS TO BE CONSTRUCTED IN FILL, THE FILL SHALL BE PLACED AND COMPACTED IN NO GREATER THAN 12 INCH LIFTS OR ALLOWED TO SETTLE FOR A MINIMUM OF ONE YEAR. THE FILL MATERIAL MUST CONFORM WITH THE REQUIREMENTS OF THE LOCAL BOARD OF HEALTH AND STATE ENVIRONMENTAL CODE TITLE 5, SECTION 15.255
- 9. TITLE 5 SAND CERTIFICATE MUST BE SUBMITTED TO THE BOARD OF HEALTH AND THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.
- 10. THE BASE FOR THE SEPTIC TANK, PUMP CHAMBER, AND DIST. BOX MUST BE COMPACTED BY A
- 1. INTERIOR PLUMBING SHALL BE CONNECTED TO THE PROPOSED SEPTIC SYSTEM WITH THE EXCEPTION OF WATER SOFTENERS AND/OR WATER CONDITIONING
- 12. WELLS WITHIN 100' OF THE PROPOSED SEPTIC SYSTEM ARE SHOWN.
- 13. APPLICABLE STATE AND LOCAL PERMITS SHALL BE ACQUIRED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
- **14.** HYDRAULIC CEMENT IS REQUIRED TO SEAL ALL CONNECTIONS AT THE SEPTIC TANK, PUMP CHAMBER, AND D-BOX.
- **15.** Conservation approval may be required.
- 16. ALL SEPTIC COMPONENTS SHALL BE MARKED WITH MAGNETIC TAPE OR COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.

TEST HOLE INFORMATION SHOWN REPRESENTS SOILS AT THAT LOCATION ONLY, AND IS NOT TO BE CONSIDERED AN IMPLIED OR EXPRESSED WARRANTY OF THE SOILS BEYOND THE LIMITS OF THE TEST HOLES.



## SOIL EVALUATOR: MARK ELBAG, JR PE SE#12682 - PERC TEST BY: MARK ELBAG, JR PE TEST WITNESSED BY: SHELLEY HULTGREN BOH- DATE PERFORMED: 9/14/2022

	DEEP OBSERVATION HOLE NUMBER: DH-1									
DEPTH FROM SURFACE	HORIZON/ COLOR-MOIST		REDOXIMORPHIC FEATURES (MOTTLES)		TEXTURE	COARSE FRAGMENTS % BY VOLUME		SOIL CONSISTENCE OTHER	OTHER	
(INCHES)	LAYER	(MUNSELL)	DEPTH	COLOR	PERCENT	(USDA)	GRAVEL	COBBLES & STONES	(MOIST)	
7"	Α	10YR4/2				SL	2	2	FRIABLE	
26"	В	7.5Y4/6	28"	2.5Y4/6	5	SL	5	5	FRIABLE	
88"	С	10YR5/3				SL	15	15	FRIABLE	

DEEP OBSERVATION HOLE NUMBER: DH-2										
DEPTH FROM SURFACE	HORIZON/ COLOR-MOIST (MOTTLES)		REDOXIMORPHIC FEATURES (MOTTLES)		TEXTURE	TURE % BY VOLUME		CONSISTENCE OTHE	OTHER	
(INCHES)			PERCENT	(USDA)	GRAVEL	COBBLES & STONES	(MOIST)			
8"	Α	10YR4/2				SL	2	2	FRIABLE	
24"	В	7.5Y4/6	28"	2.5Y4/6	5	SL	5	5	FRIABLE	
89"	С	10YR5/3				SL	15	15	FRIABLE	

_										
DEEP OBSERVATION HOLE NUMBER: DH-3										
DEPTH FROM SURFACE			REDOXIMORPHIC FEATURES (MOTTLES)				RAGMENTS VOLUME	SOIL CONSISTENCE	OTHER	
(INCHES)	LAYER	(MUNSELL)	DEPTH	COLOR	PERCENT	(USDA)	GRAVEL	COBBLES & STONES	(MOIST)	
	1		I	1		1	1	l l		

١			DEE	P OBSI	ERVAT	OHNO	LE NUI	MBER:	DH-4		
١	DEPTH FROM SOIL SOIL MATRIX: SURFACE HORIZON/ COLOR-MOIST		REDOXIMORPHIC FEATURES (MOTTLES)		SOIL COARSE FRATEXTURE % BY VO		VOLUME	CONSISTENCE	OTHER		
	(INCHES)	LAYER	(MUNSELL)	DEPTH	COLOR	PERCENT	(USDA)	GRAVEL	COBBLES & STONES	(MOIST)	
١											
١											
- 1											

TEST RESU	JLTS	
OBSERVATION HOLE #	1	2
DEPTH OF PERC	42"	
TIME (9"-6")	56 MIN	
RATE (MIN/INCH)	26 MPI	

THIS SEPTIC DESIGN IS NOT GUARANTEE THAT THE SYSTEM WILL FUNCTION AS INTENDED OR THAT IT WILL FUNCTION FOR A DISCLOSED PERIOD OF TIME. NO WARRANTIES ARE IMPLIED BY THIS DESIGN

	1	ı			
TYPICAL LEGEND					
PROPERTY LINE					
SETBACK		ı			
EASEMENT		•			
STONEWALL	2000000000000				
TREE LINE	سىنىسسىس	İ			
WELL	<b>(W)</b>	I			
EXISTING CONTOUR	<u> </u>	ł			
PROPOSED CONTOUR	100	ŀ			
SPOT ELEVATION	99x50	ŀ			
SILT FENCE					

HAYBAIL

BENCHMARK

81		
Di	95a MA-ME-N	fe HH-RI-VI

CONTRACTOR TO **VERIFY ACTUAL** LOCATION OF **EXISTING UTILITY** SERVICES IN THE FIELD PRIOR TO CONSTRUCTION

REAR YARD	- FT
MARK ELBAG, CIVI O. 88	serg/
PROFESSION	AL ENGINEE

**ZONING REQUIREMENTS** 

ZONING DISTRICT:

**FRONTAGE** 

FRONT YARD

SIDE YARD

- SF

- FT

- FT

- FT

MASSACHUSETTS LICENSE No. 48449

<u> </u>		WINGS/TOTIOGET TO EIGENCE NO. 40	, , , ,				
	REVISIONS						
REV	DATE	COMMENT	BY				
1	8/1/2023	REVISE WETLANDS	DWH				
2							
3							
4							
5							
6							

## SCHEDITIE OF ELEVATIONS

	SCHEDULE OF ELEVATIONS							
7	INVERT @ HOUSE	890.72						
$\dashv$	TANK INLET	890.50						
	TANK OUTLET	890.25						
	PUMP TANK INLET	890.15						
	PUMP TANK OUTLET	890.15						
	D-BOX INLET	898.69						
	D-BOX OUTLET	898.52						
くっ	BEG. OF FIELD	898.42						
	END OF FIELD	898.17						
	TOP OF FIELD	898.92						
	BOTTOM OF FIELD	897.67						
	ESHGW	893.67						

DESIGN DATA	

NO GARBAGE GRINDER (DISPOSAL) ALLOWED

	•	
く	TYPE OF BUILDING	SINGLE FAMILY HOUSE
	NO. OF BEDROOMS	3 BEDROOMS
₹	DESIGN PERCOLATION RATE	30 MIN. PER INCH
	LTAR	0.33
	DAILY FLOW	3 x 110 = 330
	SEPTIC TANK VOLUME	1500 GALLONS

REQUIRED LEACHING AREA DESIGN FLOW / LTAR: 330 / 0.33 = 1,000 S.F.TOTAL LEACHING AREA = (L x W)  $20 \times 50 = 1,000 \text{ S.F.}$ TOTAL DESIGN FLOW = LEACHING AREA x LTAR  $1.000 \times 0.33 = 330 \text{ G.P.D.}$ DESIGN FLOW > DAILY FLOW 330 <u>></u> 330

REPAIR SUBSURFACE SEWAGE DISPOSAL SYSTEM

PREPARED FOR: JERRY PHILLIPS 21 MARLBORO DR aka *54 FAIR VIEW DR* LEICESTER, MA

PROPERTY ADRESS: 21 MARLBORO DR aka *54 FAIR VIEW DR* LEICESTER, MA



P.O. BOX 636 **RUTLAND, MA 01543** Phone:(508) 726-1199 maelbag@gmail.com

April 7, 2023 Project No.: