

### DESIGN CALCULATIONS

DESIGN CRITERIA:  
 SINGLE FAMILY HOME NO GARBAGE DISPOSAL  
 DESIGN PERC RATE: 10 mpi  
 LOADING RATE: 0.6 gpd/ft<sup>2</sup>

DESIGN FLOW:  
 (3 BEDROOM(S)) (110 gpd/BEDROOM) = 330 gpd

SEPTIC TANK:  
 1500 gal REQUIRED - 1500 gal 2 COMPARTMENT PROVIDED

SOIL ABSORPTION SYSTEM (SAS):  
 REQUIRED: (330 gpd) / (0.60 gpd/ft<sup>2</sup>) = 550 ft<sup>2</sup>  
 PROVIDED: PIPE AND STONE BED  
 1 BED(S) 40 ft L x 18 ft W x 0.5 ft D  
 (1) 40 ft x 18 ft = 720 ft<sup>2</sup>

### DESIGNER CERTIFICATIONS

I certify that in June of 1994 I passed the soil evaluator examination by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.037.

Signature \_\_\_\_\_ Date \_\_\_\_\_

### SOIL TESTING RESULTS

DATE OF TEST: 7 JULY 2020  
 SOIL EVALUATOR: MARK FARRELL  
 WITNESS: KEN LACEY  
 PERC RATE #1 6 mpi PERC RATE #2 10 mpi  
 ALTERNATIVE TO THE PERC TEST RESULTS:

SOIL LOGS:

TP1 ELEVATION: 111.37'		ESHW ELEVATION: 107.87'		
DEPTH	HRZ	TEXT	COLOR	MOTTLE/OTHER
0 - 6 in	A	SL	10YR 3/2	
6 - 24 in	Bw	SL	10YR 6/8	
24 - 60 in	C	LS	2.5Y 6/4	COMMON 10YR 6/8@42in

### GENERAL NOTES

- 1) ALL CONSTRUCTION PRACTICE AND MATERIALS MUST CONFORM TO 310 CMR 15 (TITLE 5) AS REVISED 9 SEPTEMBER 2016 AND/OR LOCAL REGULATIONS.
- 2) CONTRACTOR IS RESPONSIBLE FOR VIEWING SITE BEFORE BIDDING JOB TO BECOME FAMILIAR WITH ALL ASPECTS OF THE JOB.
- 3) CONTRACTOR SHALL VERIFY ALL INVERTS AND SETBACKS FROM WELLS, PROPERTY LINES AND WATER BEFORE BEGINNING WORK.
- 4) IF CONDITIONS IN THE FIELD DIFFER THAN THOSE SHOWN ON THE PLAN, WORK SHALL STOP AND THE DESIGN ENGINEER AND THE BOARD OF HEALTH SHALL BE CONSULTED BEFORE WORK CONTINUES.
- 5) CONTACT THE DESIGN ENGINEER AND BOARD OF HEALTH FOR A REQUIRED BOTTOM INSPECTION BEFORE PLACING SAND OR STONE. CONTACT DESIGN ENGINEER AND BOARD OF HEALTH FOR FINAL INSPECTION BEFORE COVERING SYSTEM.
- 6) THE CONTRACTOR SHALL INSURE ALL NECESSARY PERMITS HAVE BEEN OBTAINED BEFORE INSTALLING THE SYSTEM.
- 7) NO PERMANENT STRUCTURES SHALL BE PLACED ON THE PROPOSED DISPOSAL SYSTEM.
- 8) PROPERTY LINES ARE GRAPHIC ONLY AND ARE NOT TO BE USED TO ERECT FENCES OR SHEDS. NO PROPERTY SURVEY WAS DONE.
- 9) THE DESIGN ENGINEER'S ONLY WARRANTY IS THE SYSTEM IS DESIGNED ACCORDING TO TITLE V UNLESS OTHERWISE NOTED.

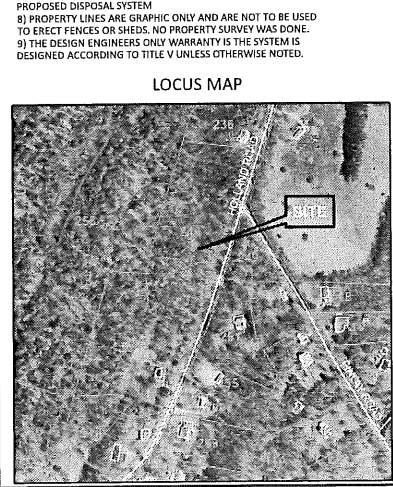
TP2 ELEVATION: 113.52'		ESHW ELEVATION: 110.02'		
DEPTH	HRZ	TEXT	COLOR	MOTTLE/OTHER
0 - 6 in	A	SL	10YR 3/2	
6 - 24 in	Bw	SL	10YR 6/8	
24 - 60 in	C	LS	2.5Y 6/4	COMMON 10YR 6/8@42in

TP3 ELEVATION: 111.29'		ESHW ELEVATION: 107.79'		
DEPTH	HRZ	TEXT	COLOR	MOTTLE/OTHER
0 - 6 in	A	SL	10YR 3/2	
6 - 24 in	Bw	SL	10YR 6/8	
24 - 60 in	C	LS	2.5Y 6/4	COMMON 10YR 6/8@42in

TP4 ELEVATION: 111.11'		ESHW ELEVATION: 107.61'		
DEPTH	HRZ	TEXT	COLOR	MOTTLE/OTHER
0 - 6 in	A	SL	10YR 3/2	
6 - 24 in	Bw	SL	10YR 6/8	
24 - 66 in	C	LS	2.5Y 6/4	COMMON 10YR 6/8@42in



### STAKE OUT INFO

**GREEN HILL ENGINEERING**

10 MAIN STREET  
 STURBRIDGE, MA 01566  
 508-347-5226 (W)  
 508-347-9857 (F)

WORKING TO PROTECT OUR WATER RESOURCES

PERC TESTING SEPTIC DESIGN WETLAND PERMITTING ENVIRONMENTAL CONSULTING

**PROPOSED SEPTIC SYSTEM**  
 NEW CONSTRUCTION  
 JIM HARRITY  
 LOT 3 - 246 HOLLAND ROAD  
 STURBRIDGE MA  
 22 AUGUST 2020

MAP 32 PAR 246 (PORTION) JOB: 2020-087