

### GENERAL NOTES

1. THE SANITARY SYSTEM CONSTRUCTION SHALL BE IN CONFORMANCE WITH 310 CMR 11.00-17.00 (TITLE V OF THE COMMONWEALTH OF MASSACHUSETTS ENVIRONMENTAL CODE), AND THE REQUIREMENTS OF FAIRHAVEN BOARD OF HEALTH.
2. PROVIDE A NEW 1,500 GALLON CAPACITY SEPTIC TANK WITH SCHEDULE 40 PVC INLET AND OUTLET TEES, WITH A GAS BAFFLE AND ZABLE A 1800 TYPE FILTER AT OUTLET TEE.
3. NO GARBAGE GRINDER SHALL BE ALLOWED WITH THIS SYSTEM.  
THE WASHING MACHINE DISCHARGE PIPE SHALL BE CONNECTED TO THIS SYSTEM.
4. THE FINISHED SLOPE SHALL NOT BE STEEPER THAN 3H:1V. A MINIMUM 15' HORIZONTAL SEPARATION DISTANCE SHALL BE PROVIDED BETWEEN THE SOIL ABSORPTION AREA AND THE ADJACENT SIDE SLOPE AS MEASURED FROM THE TOP OF THE CHAMBERS.
5. THE INSTALLED SYSTEM MUST BE LEFT EXPOSED UNTIL INSPECTED BY FAIRHAVEN BOARD OF HEALTH AND THE ENGINEER.
6. THE LEACHING AREA INCLUDING THE OVERDIG MUST BE STRIPPED OF TOPSOIL, SUBSOIL, AND UNDESIRABLE MATERIALS. SECTION 04.00 AS DIRECTED BY THE BOARD OF HEALTH OR THE ENGINEER.
7. BACKFILLED WITH CLEAN COARSE SAND AND GRAVEL WITH A PERCOLATION RATE OF 2 MINUTES PER INCH OR LESS.
8. SEPTIC TANK SHALL BE A MINIMUM OF 10' FROM PROPERTY LINE, WATER LINE AND CELLAR WALL.
9. EDGE OF LEACHING FIELD SHALL BE A MINIMUM OF 10' FROM PROPERTY LINE & WATER LINE, AND 20' FROM CELLAR WALL.
10. ELEVATIONS SHOWN ON THIS PLAN ARE ASSUMED. BENCH MARK ELEVATION IS TOP OF THE HYDRANT'S STEM NUT LOCATED ADJACENT TO THE WESTERLY LOT CORNER. ELEVATION = 100.00.
11. ALL PIPING PERFORATED OR SOLID SHALL BE #4 SCH 40 PVC PIPE.
12. ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE.
13. GROUT IS TO BE USED AT ALL POINTS WHERE PIPES ENTER OR LEAVE ALL CONCRETE STRUCTURES IN ORDER TO PROVIDE A WATERTIGHT SEAL.
14. THE PARCEL SHOWN DOES NOT LIE IN A FLOOD HAZARD ZONE.
15. THE PROPOSED SEPTIC SYSTEM IS NOT LOCATED WITHIN THE CONE OF INFLUENCE OF ANY MUNICIPAL WELL NOR ARE THERE ANY PRIVATE WELLS LOCATED WITHIN 100 FEET RADIALLY OF THE PROPOSED SYSTEM. ALL TOWN SUPPLIED WATER.
16. WETLAND IS PRESENT ON ADJACENT LOTS, IT WAS FLAGGED BY GEORGE AYOUB ON SEPTEMBER 19, 2025, AND

PERCOLATION TEST RESULTS

LOCATION: EBONY STREET, ASSESSOR'S MAP 43A LOT 322, FAIRHAVEN MA 02719

TEST HOLES TAKEN ON SEPTEMBER 16, 2025, BY GEORGE AYVOUB

WITNESSED BY: DAVID FLAHERTY, BOH

PERCOLATION RATE AT TP #A1 = 7 MPI & AT TP #B1 = 8 MPI

DEPTH OF TESTED MATERIAL AT TP #A1 = 42" TO BOTTOM, AND AT TP #B1 = 43" TO BOTTOM

HIGH GROUND WATER ELEVATION = 26" BELOW SURFACE

GROUND ELEVATION AT TP #A1 = 97.5 & AT TP #B1 = 97.5

CLASS 5 SOILS (LOAMY SANDS)

DESIGN DATA

THE PROPOSED DWELLING CONSISTS OF FOUR (4) BEDROOMS

4 BEDROOM X 110 GAL/DAY = 440 G.P.D.

SEPTIC TANK VOLUME = 2 X 440 = 880 GALLON

USE A NEW 1,500 GALLON SEPTIC TANK

BOTTOM/SIDES FACTOR : 0.66 GAL./SQ. FT.

AREA REQUIRED: 440/0.66 = 666.7 SQ. FT.

LEACHING AREA PROVIDED:

INFILTRATOR QUICK14 PLUS STANDARD CHAMBER (8 " INVERT), EFFECTIVE LEACHING AREA = 4.72 S.F./L.F.

CAPACITY REQUIRED = 666.7 S.F./4.72 S.F./L.F. = 141.25 L.F.

# OF CHAMBERS REQUIRED: 141.25 L.F./4' PER EACH = 335.3 CHAMBERS - USE 36 CHAMBERS

USE SIX (6) ROWS OF SIX (6) EACH

EFFECTIVE LEACHING AREA = 12"DEPTH----- (36 EACH X 4' X 4.72 SF/FT) = 679.7 S.F.

FLOW PROVIDED = 679.7 SF X 0.66 GPD/SF = 448.6 G.P.D.

448.6 G.P.D. (PROVIDED) > 440 G.P.D. (REQUIRED) OK

I certify that on May 7, 1996, I have passed the examination approved by the Department of Environmental Protection and that the above analysis has been performed by me or one consistent with the required training, expertise and experience described in 310 CMR 15.018(2). License Number: SE #53 expires 6/30/2028.

*George Ayoub*

SEPTEMBER 23, 2025

COMMONWEALTH OF MASSACHUSETTS  
GEORGE I. AYVOUB  
NO. 359804  
REGISTERED  
PROFESSIONAL ENGINEER

EBNY STREET  
 MAP 43A LOT 322  
 Location Address or Lot No. FAIRHAVEN, MA 02719

FORM 11--SOIL EVALUATOR FORM  
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On-site Review

Deep Hole Number: A1&A2 Date: 9/16/2025 Time: 8:00 AM Weather: 70° SUN  
 Location (Identify on site plan): YES  
 Land Use: RESIDENTIAL/WOODED Slope (%): 1% Surface Stones: SOME  
 Vegetation: TREES  
 Landform: SUMMIT  
 Position on landscape (sketch on the back): YES  
 Distances from:  
 Open Water Body: N/A feet  
 Possible Wet Area: >100 feet  
 Drinking Water Well: N/A feet  
 Drainage Way: N/A feet  
 Property Line: 15 feet  
 Other: N/A feet

DEEP OBSERVATION HOLE LOG *						
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)	
0-7"	OA	SANDY LOAM	10YR5/1		FRIABLE - SAPRIC 5% COBBLES	
7"-24"	Bw	SANDY LOAM	10YR5/8		FRIABLE	
24"-73"	C1	LOAMY SAND	2.5Y7/8		FRIABLE W/8% COBBLES & STONES	
73"-120"	C2	LOAMY SAND	2.5Y5/3		FRIABLE W/8% COBBLES STONES & BOULDERS	

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic): ABLATION GLACIAL TILL Depth to Bedrock: N/A  
 Depth to Groundwater: Standing Water in the Hole: N/A  
 Weeping from Pit Face: N/A  
 Estimated Seasonal High Ground Water: 26" BELOW GROUND SURFACE

Signal

EBONY STREET  
MAP 43A LOT 322

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Location Address or Lot No. FAIRHAVEN, MA 02719

**On-site Review**

Deep Hole Number: B1&B2 Date: 9/16/2025 Time: 8:10 AM Weather: 70° SUNNY

Location (Identify on site plan): YES

Land Use: RESIDENTIAL/WOODED Slope (%): 1% Surface Stones: SOME

Vegetation: TREES

Landform: SUMMIT

Position on landscape (sketch on the back): YES

**Distances from:**

Open Water Body: N/A feet Distance Way: N/A feet  
Possible Wet Area: >100 feet Property Line: 35 feet  
Drinking Water Well: N/A feet Other: N/A feet

DEEP OBSERVATION HOLE LOG *					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	(Structure, Other Stones, Boulders, Consistency, % Gravel)
0-5"	OA	SANDY LOAM	10YR5/1		FRIBLE - SAPRIC 5% COBBLES
5"-25"	Bw	SANDY LOAM	10YR6/6		FRIBLE
25"-74"	C1	LOAMY SAND	2.5Y7/2		FRIBLE W/8% COBBLES & STONES
74"-120"	C2	LOAMY SAND	2.5Y6/3		FRIBLE W/8% COBBLES STONES & BOULDERS

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

ABLATION  
Parent Material (geologic): GLACIAL TILL Depth to Bedrock: N/A

Depth to Groundwater: Standing Water in the Hole: N/A  
Weeping from Pit Face: N/A

**Estimated Seasonal High Ground Water:** 27" BELOW GROUND SURFACE

Date: SEPTEMBER 23, 2025
FORM 12--PERCOLATION TEST

**EBONY STREET**  
**MAP 43A LOT 322**  
**FAIRHAVEN, MA 02719**

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Location Address or Lot No. FAIRHAVEN, MA 02719

## COMMONWEALTH OF MASSACHUSETTS

### FAIRHAVEN, MASSACHUSETTS

### Percolation Test<sup>\*</sup>

Date: <u>SEPTEMBER 16, 2025</u> Time: <u>8:15 AM</u>		
Observation Hole #	A1	B1
Depth of Perc	24" TO TOP 42" TO BOTTOM	25" TO TOP 43" TO BOTTOM
Start Pre-soak	8:15 AM	8:16 AM
End Pre-soak	8:30 AM	8:31 AM
Time at 12"	8:30 AM	8:31 AM
Time at 9"	8:45 AM	8:47 AM
Time at 6"	9:05 AM	9:10 AM
Time (9"-6")	20 MINUTES	23 MINUTES
Rate Min./Inch	7 MPI	8 MPI

<sup>\*</sup> Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

Site Passed ☐
Site Failed ☐

Performed By: GEORGE T. AYOUTH, PE, SE#53 EXPIRES 6/30/2028


Witnessed By: DAVID FLAHERTY, BOH


Comments:


**LEGEND:**


— 98 — EXISTING GRADE


— 100 — PROPOSED GRADE

 TEST PIT

 SEPTIC TANK

 DISTRIBUTION BOX

 WETLAND

 WETLAND FLAC

BOARD OF HEALTH STAMP

PROPOSED SEWAGE DISPOSAL SYSTEM  
FOR: RELENTLESS REAL ESTATE GROUP  
ASSESSOR'S MAP 43A LOT 322  
EBONY STREET  
FAIRHAVEN, MA 02719  
SCALE: AS NOTED  
DATE: SEPTEMBER 23, 2025  
DRAWN BY: GEORGE T. AYOUB, PE, LSIT  
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