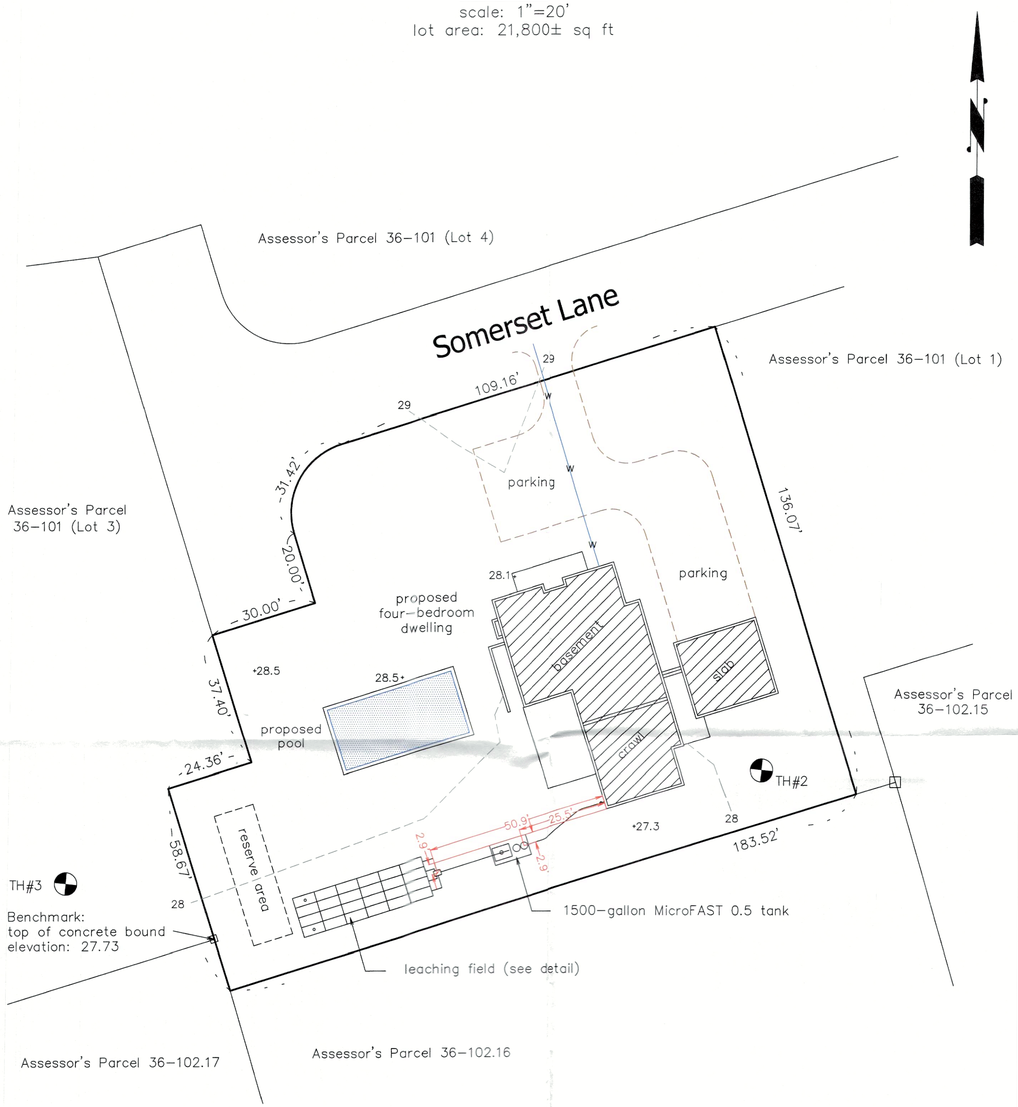
Plot Plan

scale: 1"=20'
lot area: 21,800± sq ft

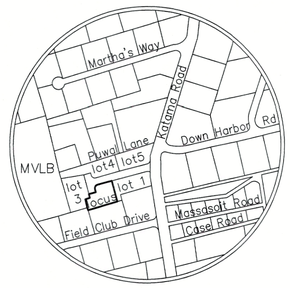


Project Notes:

A. No wells were found within 100' of the proposed leaching facility
B. Locus lies "North and East" of the Edgartown Groundwater Divide
A variance from Section 2.32 of the Edgartown Board of Health Regulations is required

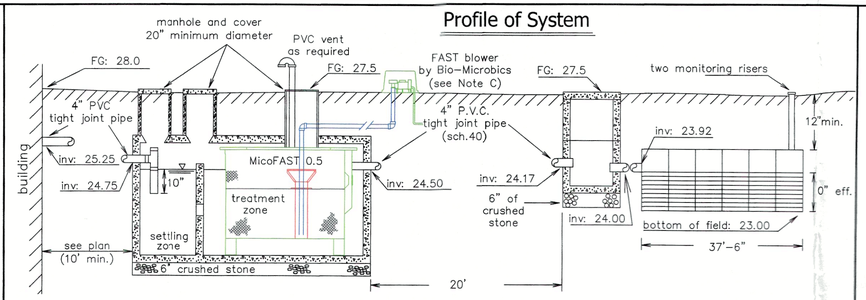
MicroFAST System Notes:

A. An copy of a signed operation and maintenance contract for the proposed MicroFAST 0.5 system (General Permit) shall be filed with the Oak Bluffs Board of Health prior to release of a Disposal Works Construction Permit
B. MicroFAST 0.5 unit may be internal or top mounted (internal shown)
C. MicroFAST blower assembly may be mounted in a sub–grade vault supplied by Bio–Microbics (above grade shown) provided that air supply lines pitch to septic tank at a minimum of 0.5% slope
D. Contact information for MicroFAST 0.5 system:
Michael Morreau
J&R Sales and Service
44 Commercial Street
Raynham, MA 02767



Locus Map (no scale)

Profile of System

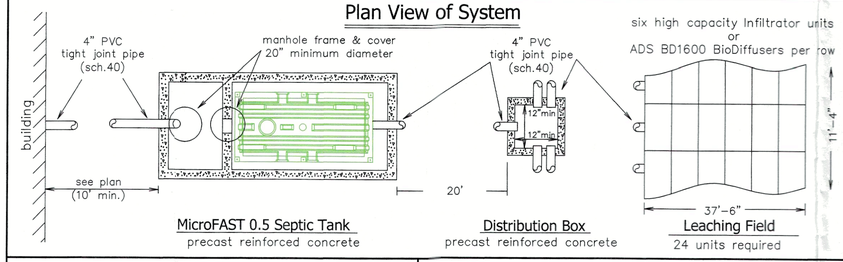


MicroFAST 0.5 Septic Tank
capacity: 1500 gallons
precast reinforced concrete

Distribution Box
five outlets
"speed levelers"
to be provided

Leaching Field
bottom of field level
for entire length
(24 units required)

Plan View of System

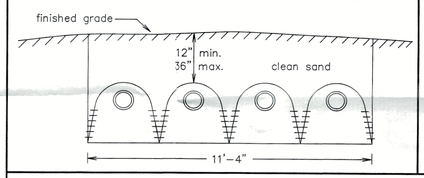


MicroFAST 0.5 Septic Tank
precast reinforced concrete

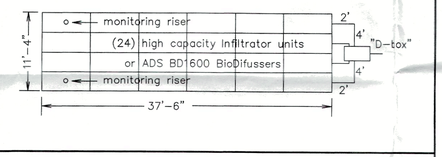
Distribution Box
precast reinforced concrete

Leaching Field
24 units required

Typical Leaching Field Cross-Section (no scale)



Leaching Field Detail (no scale)



Schedule of Elevations

		finished grade above structure			finished grade above structure
Top of foundation:	28.83		Invert at distribution box inlet:	24.17	
Basement floor:	21.42		Invert at distribution box outlet:	24.00	27.5
Inverts at foundations:	25.25	28.0			
Invert at septic tank inlet:	24.75		Invert at infiltrator inlet:	23.92	
Invert at septic tank outlet:	24.50	27.5	Elevation of field bottom:	23.00	

Deep Test Pit 2 (Surface Elevation: 30.0)
Date of Test: February 2, 2021

Depth	Horiz.	Soil Desciption
0"–14"	fill	SAND & court material
14"–26"	A	f–m Sandy LOAM
26"–46"	B	Sandy LOAM
46"–128"	C	m–c SAND and Gravel

Groundwater was not encountered at a depth of 128" (elevation: 19.3)

Deep Test Pit 3 (Surface Elevation: 30.0)
Date of Test: February 2, 2021

Depth	Horiz.	Soil Description
0"–10"	A	f–m Sandy LOAM
10"–38"	B	Sandy LOAM with Gravel
38"–126"	C	m–c SAND

Groundwater was not encountered at a depth of 126" (elevation: 19.5)

Percolation Test Data

test pit #	date	top of 12" of water: depth from top of pit	top of 12" of water: elevation	rate: (mpi)
3	2/2/21	42"	26.5	<2

General Notes

1. Elevations refer to approximate mean sea level datum. See bench mark on plot plan located on top of concrete bound (elev: 27.73)
2. Finished grading to be done in accordance with plot plan.
3. Percolation tests to be performed in accordance with the instructions of Title V of the Massachusetts State Environmental Code.
4. All construction to conform to Title V and Board of Health requirements.
6. Septic tank and distribution box shall be watertight after construction, including covers.
7. No driveway, parking or turning area or other impervious areas shall be located above the soil absorption system.
8. No permanent structure may be constructed over the 100% expansion area.
9. Schofield, Barbini & Hoehn Inc. will not be responsible for the performance of the system unless constructed as shown. Any alterations must be approved in writing by Schofield, Barbini & Hoehn Inc.
10. The Board of Health shall require inspection of all construction by the design engineer and by the agent of the Board of Health.
11. The design engineer and the system installer shall certify in writing to the approving authority that the system has been constructed in compliance with the approved plans.
12. For proper performance, the septic tank should be inspected at least once a year and when the total depth of scum and solids exceed 1/3 the liquid depth of the tank, the tank should be pumped.
13. Distribution box cover to be brought to finish grade.

Design Data

1. Estimated. Hydraulic Loading:
Four bedrooms at 110 gallons per day per bedroom = 440 GPD
Garbage disposal is not allowed with this design.
2. Septic Tank Size:
Required tank capacity: 440 x 200% = 880 (minimum)
Septic tank provided: 1500 gallon MicroFAST 0.5 tank
3. Design percolation rate: 2 MPI
Soil textural class: I
Loading rate: 0.74 GPD/SF
4. Leaching Area:
Total leaching area provided: 424 SF
5. Maximum Allowable Loading:
424 SF x 1.67 (chamber general permits) x 0.74 GPD/SF = 523 GPD
Actual hydraulic loading: 440 GPD

Legend

---XX---	Denotes proposed contour
F.G. = XX.X	Denotes proposed finished grade
XX	Denotes existing contour
	Denotes test hole location
P.V.C.	Denotes polyvinyl chloride pipe, Sch. 40, unless noted
	Denotes catch basin
E.H.C.I.	Denotes extra heavy cast iron
— W —	Denotes water service
— PL —	Denotes approximate property line
— O.W. —	Denotes overhead wires
— D —	Denotes storm drain pipe

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Edgartown Board of Health

Proposed Sewage Disposal System

To Serve a Proposed Four–Bedroom Dwelling
3 Somerset Lane – Assessor Parcel 36–101.2
Edgartown, Massachusetts

Applicant: Mattakesett Realty Trust – II
c/o Schofield, Barbini, & Hoehn, Inc.
PO Box 339
Vineyard Haven, MA 02568

Phone: (617) 571–1367
Date: May 25, 2021

Rev: December 6, 2024 | asbuilt: October 3, 2025
designed by: CPA | drawn by: CPA | checked by: CHD

Schofield, Barbini & Hoehn, Inc.
Land Surveying Civil Engineering
SBH
12 Surveyor's Lane, Box 339
Vineyard Haven, Mass. 02568
508–693–2781
www.sbhinc.net

MV 7968–2

AS-BUILT