

STURBRIDGE

SYSTEM PROFILE

PROPOSED CONOCRETE D-BOX

PROPOSED SOIL ABSORPTION SYSTEM (SAS)

LOCAL UPGRADE APPROVAL REQUESTS

1. TO INSTALL THE SAS WITH A 2' VERTICAL REDUCTION FROM THE BOTTOM OF THE SAS TO SEASONALLY HIGH GROUND WATER WHILE USING ADVANCED TREATMENT SYSTEM - ELUEN GEOTEXTILE SAND FILTERS

CONSERVATION COMMISSION REVIEW REQUIRED

1. EDGE OF SAS SAND 55' FROM BW
2. EDGE OF SAS SAND 140' +/- FROM STREAM BANK
3. TEMPORARY DISTURBANCE IS 25' FROM BW

N/F
MAP 170-04524-045
REBECCA L WELLWOOD

LOT SIZE
81,750± S.F.

CREAM BANK

LOCUS NT5

EROSION CONTROL BARRIER

SAS PROFILE

APPLY MAGNETIC TAPE OVER BURIED PIPES AND COMPONENTS

EJEN MODULE & LAYOU DEIA

USE A 100% BIODEGRADABLE BARRIER

PROPOSED WATTLES EROSION CONTROL BARRIER AND LIMIT OF WORK

EST. LOC. EX. SAS. ABANDON
IN ACCORDANCE WITH TITLE 5

WOODS

**PROPOSED SEPTIC VENT
PAGODA VENT RECOMMENDED**



CROSS SECTION VIEW

SCHEDULE OF ELEVATIONS

LOCATION	ELEVATION	FIN. GRADE
FOUNDATION INVERT OUT	EX.	
SEPTIC TANK INVERT IN	EX.	97.0 MIN. 99.2 MAX.
SEPTIC TANK INVERT OUT	96.0 EX. VERIFY AT START OF JOB	
PUMP CHAMBER INVERT IN	----	
PUMP CHAMBER INVERT OUT	----	
DISTRIBUTION BOX INVERT IN	94.7	96.3 MIN. 97.9 MAX.
DISTRIBUTION BOX INVERT OUT	94.5	
HIGHEST CONTOUR AT SAS	96.5	
PIPE INVERT (UNITS ARE LEVEL)	94.40	95.7 MIN. 97.9 MAX
BOTTOM OF ELLEN UNIT		
BOTTOM OF C33 SAND	93.82	
ESTIMATED SEASONAL HIGH WATER	91.32	
BREAKOUT AT 15'	94.90	

CERTIFIED SOIL TESTING RESULTS

DATE 5-4-22 SOL EVALUATOR: LIZ DUPRE AGENT: KEN LACY	TEST P1 2 GR. EL. = 96.04/-	FILL 0-42 A 42-48 W/SOL 10YR 2/2-ABK-FR B 48-60 LS 7.5YR 5/8-ABK-FR C1 60-101 10YR 4/4-ABK-FR MLTS@ 62" WEIRING @63"	FILL 0-42 A 42-48 W/SOL 10YR 2/2-ABK-FR B 48-60 LS 7.5YR 5/8-ABK-FR C1 60-101 10YR 4/4-ABK-FR MLTS@ 62" WEIRING @63"	1 EXAMINER THAT I PASSED THE IDENTIFICATION APPROVED BY THE DEPARTMENT OF END. AND TALENT DETECTION AND TRAINING ABOVE ANALYSIS HAS BEEN PERFORMED BY ME. CONSISTENT WITH THE FINDINGS OF THE EXPERIENCE DESCRIBED IN 310 CMR 15.016(2).
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SIZING CALC'S

Hydraulic Lifting
4 BEDROOMS @ 110 GPD - 440 GPD
This design does not allow for the use of a garbage grinder
OR a power backwash/discharging connection.
Sump, 150 GPD @ 100 GPM
440 GPD GPD 20% = 880 GPM MIN 15 RECYC'S 1,500 GAL.
Leaching Area

ELIJAH GEOTEXTILE SAND AND FILTER UNITS
DESIGN LOADING RATE: 17.1 IN/HR @ 0.66 GPD/SF
40 G/D 0.66 GAL = 667 SF MIN. REDD
GSF 440 BED CONFIGURATION
MIN. 24 REQD ELIJAH TABLE 4 - USE 24
BED WIDTH 400/33-12.12 USE 125
4.25 SPACING AND 2.0 LATERAL TO EOGE
1.0 SIDE EXT. SAND BED; 0.65 END EXT. SAND BED

APPLICANT

CHRIS MATTOLI
47 BREAKNCK ROAD
STURBRIDGE, MA 01566

CONTACT
CHRIS MATTIOLI
413-324-3652

EX. 4 BEDROOM SFH
ASSESSOR MAP 170-0452

47 BREAKNECK ROAD

**STURBRIDGE, MASSACHUSETTS
PROPOSED SEPTIC SYSTEM REPAIR**

CLEAR WATER ENVIRONMENTAL

SEPTIC SYSTEM DESIGN | LAND PLANNING

Serving Greater MA Since 1999

87 Bartlett Road
Kittery Point
Maine 03905

Maine 03905

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C (508) 868-0838

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UNLESS OTHERWISE NOTED
DATE: MAY 17, 2022

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PROPOSED EROSION CONTROL (TYP.)
WATTLES SEE DETAIL
LIMIT OF WORK IN PROXIMITY TO BVW

[illegible]

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