

NOTICE OF PUBLIC MEETING SUDBURY CONSERVATION COMMISSION Monday, September 12, 2022 at 6:45 PM Virtual Meeting

The Sudbury Conservation Commission will hold a public meeting to review the Request for Determination of Applicability filing under the Wetlands Protection Act and the Sudbury Wetlands Administration Bylaw to replace the septic system within the 100-foot Buffer Zone at 196 North Road, in Sudbury, MA. Mary Brennan, Applicant. The meeting will be held on Monday, September 12, 2022 at 6:45 pm, via Zoom.

The application and meeting details may be reviewed on the Conservation Department web page at:

https://sudbury.ma.us/conservationcommission/meeting/conservation-commission-meeting-monday-september-12-2022/

Please contact the Conservation Office with any questions at 978-440-5470.

SUDBURY CONSERVATION COMMISSION TODAY'S DATE 9/1/22

AUG 29 2022



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands Sudbury Conservation Department

City/Town

# WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

## A. General Information



When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return
kev.

1. Applicant:			
Mary B. Brennan	breabrennai	breabrennan4@gmail.com E-Mail Address	
Name	E-Mail Address		
196 North Rd			
Mailing Address			
Sudbury	MA	01776	
City/Town	State	Zip Code	
617-653-2267			
Phone Number	Fax Number (if	Fax Number (if applicable)	
2. Representative (if any):			
Capstone Design Build, Inc.			
Firm			
David Schofield	dschof@ver	dschof@verizon.net	
Contact Name	E-Mail Address	3	
PO Box 127			
Mailing Address			
Wayland	MA	017789	
City/Town	State	Zip Code	
508-358-5763			
Phone Number	Fax Number (il	Fax Number (if applicable)	

# **B.** Determinations

- 1. I request the Sudbury make the following determination(s). Check any that apply:
  - a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
  - b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
  - c. whether the work depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
  - d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Sudbury	
Name of Municipality	

e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).

N/A



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

City/Town

#### C. Project Description (cont.)

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

septic system replacement for existing design flow.

- 3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.
  - Single family house on a lot recorded on or before 8/1/96
  - Single family house on a lot recorded after 8/1/96
  - Expansion of an existing structure on a lot recorded after 8/1/96
  - Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
  - New agriculture or aquaculture project
  - Public project where funds were appropriated prior to 8/7/96
  - Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
  - Residential subdivision; institutional, industrial, or commercial project
  - Municipal project
  - District, county, state, or federal government project
  - Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)

## Narrative and Summary – Request for Determination of Applicability (RDA) Filing (Filing Date: August 29, 2022)

#### **196 NORTH RD - SUDBURY**

This filing involves the replacement of the existing failed septic system that serves the existing 5-bedroom dwelling at 196 North Rd - Sudbury.

The subject property is located on the north side of North Rd (Route 117) just east of the Bruce Freeman Rail Trail (between Dakin Rd and the Concord town line). The site contains an existing single-family home with a paved driveway at the front and landscaped lot.

Resource Area delineation was conducted by David Burke in June 2022 and is marked by numbered flags.

The design approach for the septic design was to site the septic tank and leaching trenches as far as possible from protected resources while working within the projecte parameters. The Geomatrix GST system was employed in this design as it is very compact providing the greatest leaching area in the smallest footprint. Additionally a variance was taken to allow the lawn deciduous tree near the leaching trenches to remain.

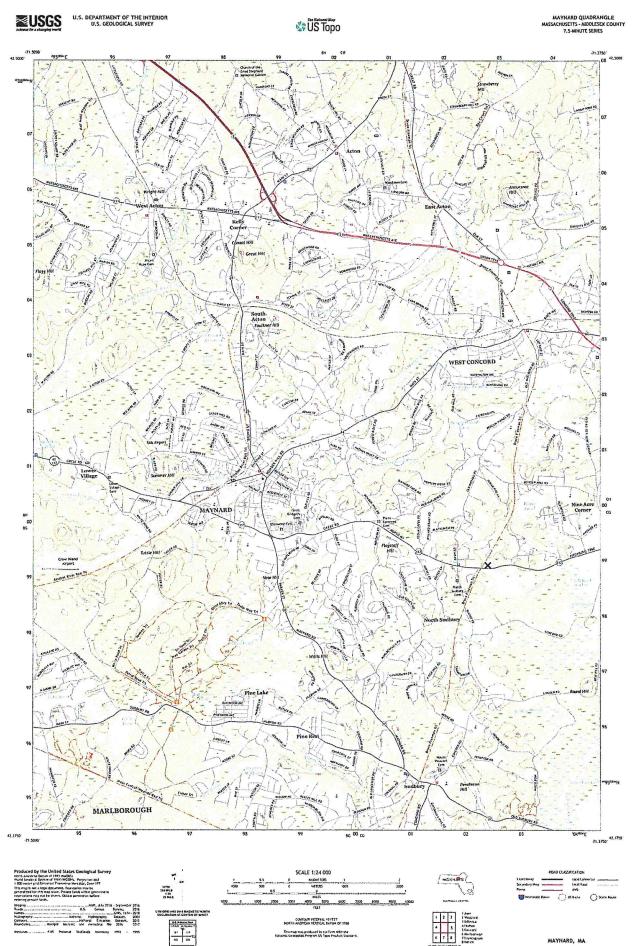
Soil testing showed loamy sand soils with a perc rate of less than 2 minutes per inch. No indicators of Estimated Seasonal High Groundwater (ESHGW) were noted in the test holes.

A new 1,500 gallon septic tank and distribution box are proposed prior to the leaching trenches. The 1,500 gallon septic tank is proposed to be 63 feet from the nearest edge of the BVW.

The proposed Soil Absorption System (SAS) consists of three GST leaching trenches that are 32' long and 37" wide providing a total effective leaching area of 1,122 sf in a 360 sf footprint. The leaching field is located 53' from the nearest the nearest BVW.

The grade over the leaching field will remain largely unchanged throughout the leaching area.

An erosion control barrier (silt fence) is proposed between the work area and the BVW to separate the work area from the BVW. The work will begin on this project as soon as approved by the Conservation Commission. Disturbed areas will be raked and seeded immediately following installation of the septic system so that full stabilization is achieved.



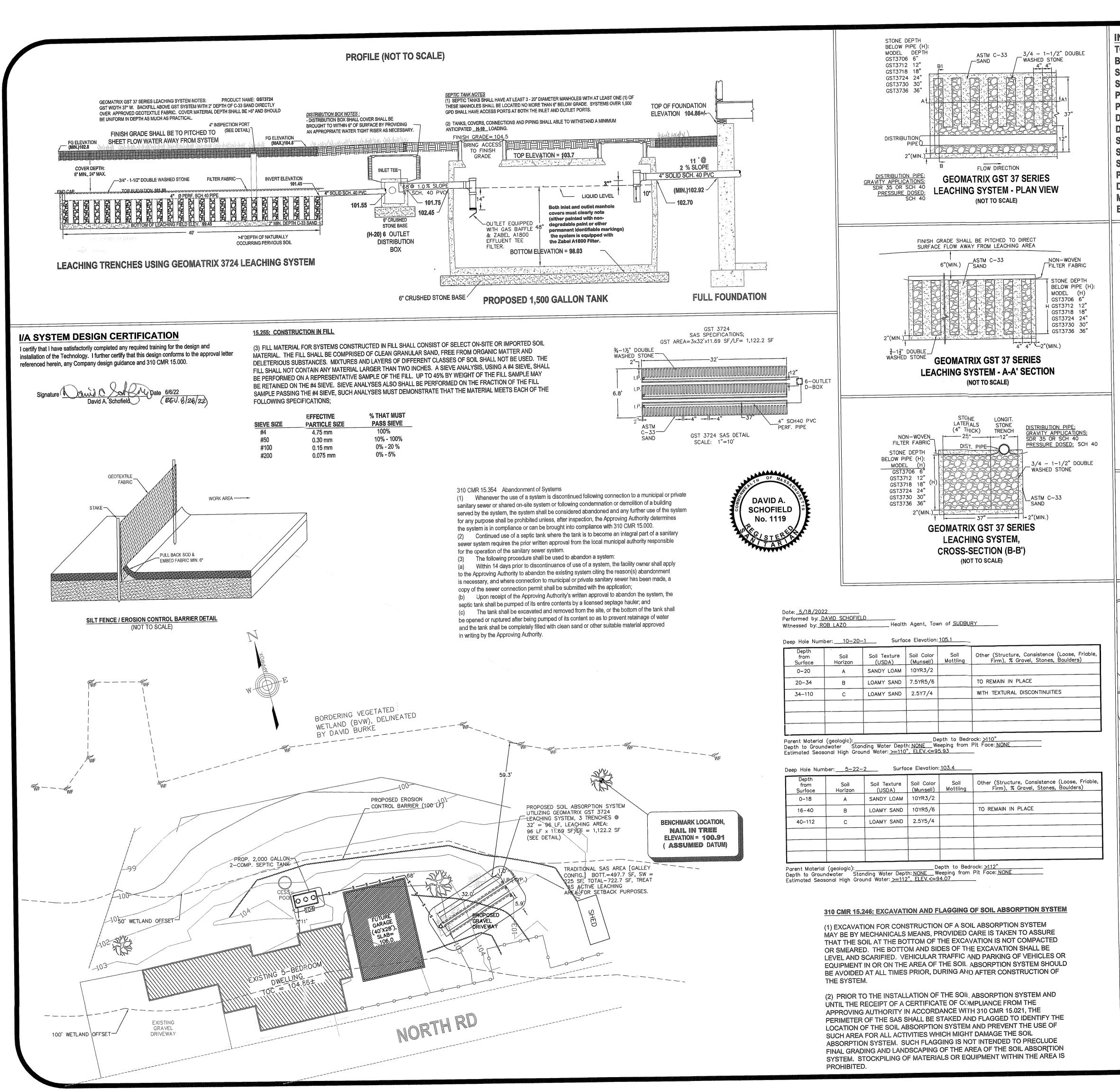
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MAYNARD, MA 2021



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Difference         Difference <thdifference< th="">         Difference         Differe</thdifference<>	a .co. db 2000 500	commencing any excavation activities on site.
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Did         State           Did         State         State	OIL ABSORPTION SYSTEM (SAS) ORIGIN 101.45	on the subsurface exploration and percolation tests listed.
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2. SEPTIC TANK DESIGN CRITERIA/MINI (GAPACITIES)           A. COMPARTMENT 1 CAPAC.         550 GALLONS           B. COMPARTMENT 2 CAPAC.         550 GALLONS           C. TOTAL CAPAC.         550 GALLONS           A. DESIGN PROTIEDATION PARTE:         2.000 GALLONS           D. SOLTOMARCH PROVIDED:         - SF           D. SOLTOMARCH PROVIDED:         - SF           F. TOTAL AREA PROVIDED:         - SF           SEEDTIC SYSTEM         SEEDTIC SYSTEM           SEEDTIC SYSTEM         SEEDTIC SYSTEM           SEEDTIC SYSTEM         SEEDTIC SYSTEM           SEEDTIC SYSTEM         SEEDTIC SYSTEM DESIGN           MIREE SECOND         SEEDTIC SYSTEM DESIGN           SEEDTIC	1. FLOW: 5 BDRMS @ 110GPD / BDRM = 550 GPD	Engineer and Owner, in writing, of any plan deficiencies, unforeseen subsurface conditions, or
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		proposed leaching area or within 100 of the proposed septic tank.
A. DESIGN PERCOLATION PARTE:       2. MIM/M         B. EFFLUENT LOADING PARTE:       0.746 (PD)SF         C. NEC, LEACHING AREA       7.43.2 SF         D. BOTTOM MAREA PROVIDED:       - SF         F. TOTAL AREA PROVIDED:       - SF         G. DESIGN CAPACITY:       IMA 55.4 GPD         S. DESIGN CAPACITY:       IMA 55.4 GPD         S. DESIGN CAPACITY:       IMA 55.4 GPD         S. DESIGN CAPACITY:       IMA 55.4 GPD         SYSTEM IS NOT DESIGNED FOR AGRAAGE       GRINDER: THE USE OF A CARBAGE         GRINDER: MAY SHORTEN THE LIFE OF THE       SEPTICE SYSTEM         SEPTICE SYSTEM       SUDBURY BORDO CHECKING CHEC	3. SAS DESIGN CRITERIA: GEOMATRIX GST	Zone II of a public drinking water supply well.
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0. ВОТТОМ АREA PROVIDED:       - SF         E. SIDEWALL PROVIDED:       - SF         F. TOTAL AREA PROVIDED:       - SF         F. TOTAL AREA PROVIDED:       - SF         F. TOTAL AREA PROVIDED:       - SF         SUBSING CAPACITY:       (MA) 553,6 GPD         SYSTEM IS NOT DESIGNED FOR GARDAGE       Barrow Self Constant Toward Instruction of the Construction of the Constant Toward Instructio		in landscaped areas. A minimum of 12" of cover and/or appropriate sleeving utilized in areas subject
B       SPENALL PROVIDED:      SF         F. TOTAL AREA PROVIDED:       744.3 FF         G. DESIGN CAPACITY:       (MA) 553.4 GPD         SYSTEM IS NOT DESIGNED FOR GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         GRINDER: THE USE OF A GARBAGE       GRINDER: THE USE OF A GARBAGE         ONESS, GRI		2. All tanks, including septic tanks, distribution boxes dosing chambers, and arease traps shall be
F. TOTAL AREA PROVIDED:       748.1 SF         G. DESIGN CAPACITY:       (MA) 553.6 GPD         SYSTEM IS NOT DESIGNED FOR GARBAGE       School from and from the control in the second set of the second set o	D. DOTTOWIARCATING TIPED.	either watertight through manufacturer's specification and warranty: or made watertight by the
G. DESIGN CAPACITY:       (MAIA) 553.6 GPD         SYSTEM IS MOD TESIGNED FOR GARAGE         GRINDER THE USE OF A GARAGE         FERCENDER         FERCENDER         FERCENDER         GRINDER THE USE OF A GARAGE	F. TOTAL AREA PROVIDED: 748.1 SF	manufacturer or other individual by means and persons as approved in 310 CMR 15.221. Septic tank shall be constructed and placed in accordance
SYSTEM IS NOT DESIGNED FOR GARRAGE GRINDER MAY SHORTEN THE LIFE OF SEPTIC SYSTEM.       The twist and the set of the first over conservation of the twist of the twist over conservation set that the set of the twist over conservation of the twist over conservation over the twist over conservation over the twist over conservation over the twist over conservation over the twist over the twist over the twist over the twist over twist over twist over the twist over the twist over twist over twist over the twist over twist over twist over twist over twist over twist over twist over twist over twist over the twist over twist over twist over twist over twist over twist over twist over twist over twist over twist over twist over twist over twist over		with 310 CMR 15.223 through 310 CMR 15.228. 3. Septic Tanks shall have at least three (3) 20"
GRINDER MAY SHORTEN THE LIFE OF THE           SEPTIC SYSTEM.           PERC HOLE TEST DATA           PROTESTING           PROTESTING<		shall be located no more than 6" below finish grade.
SEEPTIC SYSTEM.         PERC HOLE TEST DATA           PERC HOLE TEST DATA         B. Donor to solve the data of the origon of the first oris origon of the firs	GRINDER. INE USE OF A GARDAGE	both the inlet and outlet tees.)
E. E. E. S. and the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is the instant is order to equal to the result is or		construction, installed level on a firm base, and installed in accordance with 310 CMR 15.232.
PERC HOLE TEST DATA         PROCESSING		5. D-box outlet lines shall be installed level for a minimum of the first 2' in order to equalize flow to
PERC HOLE TEST DATA           PRECTENSIG		the distribution lines. 6 The minimum inside dimension of the d-box shall
PERCIRENCE     white     and an order by the use of white or the steps of the constraints of	PERCHOLE TEST DATA	reinforced concrete units.
DEPERDICUE         SAUD SELACY		within 6" of finish grade by the use of watertight risers
DATES:         #1482022           NOTES:         #1482022           ROLES:         #148202           ROLES:         #148202           ROLES:         #148202           ROLES:         #14820	PERFORMED BY: DAVID SCHOFIELD	the d-box inlet nine exceeds 8% an inlet tee, battle
DATE():         STREE         PERCENTE         EFFL LOAD RATE         DEPTH           MOLES         SOA CLASS         PERC RATE         EFFL LOAD RATE         DEPTH           MOLES         SOA CLASS         PERC RATE         EFFL LOAD RATE         DEPTH           45T         O.TAG         BERC RATE         DEPTH         45T           45T         O.TAG         BERC RATE         DEPTH           45T         O.TAG         DEPTH         BERC RATE         DEPTH           45T         DEPTH         DEPTH         DEPTH         DEPTH           45T         DEPTH         DEPTH         DEPTH         DEPTH         DEPTH           45T         DEPTH <td< th=""><th></th><th>outlet invert elevation shall be provided. 9. When the SAS is installed within unsuitable soil</th></td<>		outlet invert elevation shall be provided. 9. When the SAS is installed within unsuitable soil
Mode To         Mode Code         Mode Code		layers or above natural grade, all unsuitable bsoil shall be removed below and laterally for a minimum
ID. A. I. Claube do used for the longender, seeked, order           ID. A. I. Claube do used for the longender, seeked, order           ID. A. I. Claube do used for the longender           ID. A. I. Claube do used for the longender           ID. A. I. Claube do used for the longender           ID. A. I. Strate download for the longender           ID. J. Strate download for the longender           ID. I. Str		be replaced with clean granular material in accordance with 310 CMR 15,255(3).
Image: second constraint of size and sise and size and constraint of size and constraint of		10. All disturbed areas shall be loamed, seeded, and maintained so as to prevent erosion.
LOCUS MAP		11. All native soil interfaces which will contact SAS shall be scarified prior to placement of SAS sand or
Image: Control with the control wi	LOCUS MAP	Additional Notes: -MARK ALL SYSTEM COMPONENTS WITH MAGNETIC MARKING TAPE
Image: Construction of the construc		-SYSTEM DESIGNED UNDER THE GEOMATRIX GST GENERAL USE
Image: Status       Received       AUG 29 202         Subury Constraints Department       1       ADD 3RD TRENCH       AUG 29 2022         Subury Constraints Department       1       ADD 3RD TRENCH       AZ82022         No.       Revision/Issue       Date         Project Nome and Address       SEP TIC SYSTEM DESIGN         Storemail       Store       Store         Project Nome and Address       SEP TIC SYSTEM DESIGN         Store       Store       Store         Project Nome and Address       SEP TIC SYSTEM DESIGN         Store       Store       Store         PROPOSED CONTOUR       Obset       Store         PROPERTY LINE       Store       T		-SYSTEM ALSO SUBJECT TO DEP'S "STANDARD CONDITIONS FOR ALTERNATIVE SOIL ABSORPTION SYSTEMS" REVISED 3/5/2018).
AUG 2.9 2022         SUTE         (1)		INSTALLATION OF THE GST SYSTEM.
Image: Single Control of Address         Single Control of Address <th>O O O O O O O O O O O O O O O O O O O</th> <th></th>	O O O O O O O O O O O O O O O O O O O	
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North ROAD       No.     Revision/Issue     Date         No.     Revision/Issue     Date         No.     Revision/Issue     Date         Firm Name and Address       Capstone Design Build, Inc.       Post Office Box 127       W a yi and, MA 01778       Store       Store       VARIANCES REQUESTED       None recuested       LEGEND       EXISTING CONTOUR       Bit Bid ge of PAVEMENT       PROPERTY LINE		
North ROAD       No.     Revision/Issue     Date         No.     Revision/Issue     Date         No.     Revision/Issue     Date         No.     Revision/Issue     Date         Image: Stream of the str		1 ADD 3RD TRENCH 8/28/2022
No.     Revision/Issue     Date       No.     Revision/Issue     Date		
Project     Capstone Design Build, Inc.       Post Office Box 127     W a yl and, M A 01778       Post Office Box 127     W a yl and, M A 01778       (508) 358 - 5763     (508) 358 - 5763         VARIANCES REQUESTED       NONE REQUESTED       VARIANCES REQUESTED       PROPOSED CONTOUR       EXISTING CONTOUR       FENCELINE       EDGE OF PAVEMENT       PROPERTY LINE	NORTH TIER	No. Revision/Issue Date
B       Capstone Design Build, Inc.         Post Office Box 127       Wayland, MA 01778         Stopulative       Post Office Box 127         Wayland, MA 01778       (508) 358 - 5763         Project Nome and Address       SEPTIC SYSTEM DESIGN         NONE REQUESTED       196 NORTH RD         NONE REQUESTED       196 NORTH RD         STONEWALL       Project 22-105         Broget Name       Sheet         Project 22-105       Sheet         Botte 6/6/2022       1         Stope Pavement       1" = 20'		
B       Capstone Design Build, Inc.         Post Office Box 127       Wayland, MA 01778         Stopurt R0       Stopurt R0         NONE REQUESTED       Project Norme and Address         NONE REQUESTED       196 NORTH RD         StoneWall       StoneWall         PROPOSED CONTOUR       Project 22–105         StoneWall       Date         Property LINE       1" = 20"		Firm Name and Address
Post Office Box 127         Wayland, MA 01778         Store         Store         Project Nome and Address         SEPTIC SYSTEM DESIGN         196 NORTH RD         Store         Project Nome and Address         SEPTIC SYSTEM DESIGN         196 NORTH RD         Store         Project Nome and Address         SEPTIC SYSTEM DESIGN         196 NORTH RD         Store         Project Nome and Address         SEPTIC SYSTEM DESIGN         196 NORTH RD         Store         Store         Bode of PAVEMENT         PROPORTY LINE		
HAYNES RD       SUPBURY RD         SUPBURY RD       SUPBURY RD         SUPBURY RD       Project Nome and Address         SEPTIC SYSTEM DESIGN         NONE REQUESTED         NONE REQUESTED         NONE REQUESTED         STONEWALL         FENCELINE         EDGE OF PAVEMENT         PROPOSETY LINE		
HAYNES RD       (508) 358 - 5763         Stopener RD       Septimizer         VARIANCES REQUESTED       Project Name and Address         NONE REQUESTED       SEPTIC SYSTEM DESIGN         LEGEND       196 NORTH RD         EXISTING CONTOUR       Image: state of the state o		
HAYNES RD         SIDBURT RD         SIDBURT RD         VARIANCES REQUESTED         NONE REQUESTED         NONE REQUESTED         LEGEND         EXISTING CONTOUR         PROPOSED CONTOUR         FENCELINE         EDGE OF PAVEMENT         PROPERTY LINE		
VARIANCES REQUESTED         .NONE REQUESTED         .NONE REQUESTED         .NONE REQUESTED         .NONE REQUESTED         .NONE REQUESTED         .NONE REQUESTED	HAYNES RD	
VARIANCES REQUESTED         .NONE REQUESTED         .NONE REQUESTED         .NONE REQUESTED         LEGEND         EXISTING CONTOUR         PROPOSED CONTOUR         FENCELINE         EDGE OF PAVEMENT         PROPERTY LINE		
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VARIANCES REQUESTED         .NONE REQUESTED         .NONE REQUESTED         196 NOR TH RD SUDBURY, MASS.         LEGEND         EXISTING CONTOUR         PROPOSED CONTOUR         STONEWALL         PROPERTY LINE		
-NONE REQUESTED       196 NOR TH RD SUDBURY, MASS.         LEGEND       SUDBURY, MASS.         EXISTING CONTOUR       Image: control of the second seco	SUDBUIT	
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EXISTING CONTOUR PROPOSED CONTOUR STONEWALL $\sim$ 100 FENCELINE EDGE OF PAVEMENT $\sim$ 1" = 20' PROPERTY LINE	VARIANCES REQUESTED	196 NORTH RD
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STONEWALL	-NONE REQUESTED	196 NORTH RD
STONEWALL	-NONE REQUESTED -NONE REQUESTED LEGEND	196 NORTH RD SUDBURY, MASS.
FENCELINE       6/6/2022         EDGE OF PAVEMENT	-NONE REQUESTED -NONE REQUESTED LEGEND EXISTING CONTOUR	196 NORTH RD SUDBURY, MASS.
EDGE OF PAVEMENT	-NONE REQUESTED -NONE REQUESTED  LEGEND EXISTING CONTOUR PROPOSED CONTOUR	196 NORTH RD SUDBURY, MASS. Project 22-105 Date
PROPERTY LINE	VARIANCES REQUESTED         -NONE REQUESTED         LEGEND         EXISTING CONTOUR         PROPOSED CONTOUR         100         STONEWALL	196 NORTH RD SUDBURY, MASS. Project 22-105
	VARIANCES REQUESTED         -NONE REQUESTED         LEGEND         EXISTING CONTOUR         PROPOSED CONTOUR         IDD         STONEWALL         FENCELINE	196 NORTH RD SUDBURY, MASS. Project 22–105 Date 6/6/2022
	VARIANCES REQUESTED         -NONE REQUESTED         LEGEND         EXISTING CONTOUR         PROPOSED CONTOUR       [100]         STONEWALL	196 NORTH RD SUDBURY, MASS. Project 22–105 Date 6/6/2022
	VARIANCES REQUESTED         -NONE REQUESTED         LEGEND         EXISTING CONTOUR         PROPOSED CONTOUR       [100]         STONEWALL	196 NORTH RD SUDBURY, MASS. Project 22–105 Date 6/6/2022
	VARIANCES REQUESTED         -NONE REQUESTED         LEGEND         EXISTING CONTOUR         PROPOSED CONTOUR       [100]         STONEWALL	196 NORTH RD SUDBURY, MASS. Project 22–105 Date 6/6/2022