

**NOTICE OF PUBLIC MEETING
SUDBURY CONSERVATION COMMISSION
Virtual Meeting 6:45 PM**

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 remove and replant 10 trees within the 100-foot Buffer Zone at 798 Concord Road, in Sudbury, MA. Timothy Butler, Applicant. The meeting will be held on Monday, April 25, 2022 at 6:45 pm, via Zoom.

Copies of the application may be reviewed on the Conservation Department web page at:

<https://sudbury.ma.us/conservationcommission/meeting/conservation-commission-meeting-monday-april-25-2022/>

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

SUDBURY CONSERVATION COMMISSION
April 11, 2022



WPA Form 1- Request for Determination of Applicability

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

A. General Information

Important:

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



1. Applicant:

Timothy Butler Timothyjohnbutler@gmail.com
 Name E-Mail Address
 798 Concord Road
 Mailing Address
 Sudbury MA 01776
 City/Town State Zip Code
 (978)821-4434
 Phone Number Fax Number (if applicable)

2. Representative (if any):

Firm
 Contact Name E-Mail Address
 Mailing Address
 City/Town State Zip Code
 Phone Number Fax Number (if applicable)

B. Determinations

1. I request the Sudbury Conservation Commission 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).



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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).

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.)



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D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Timothy Butler	_____
Name	_____
798 Concord Road	_____
Mailing Address	_____
Sudbury	_____
City/Town	_____
MA	01776
State	Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

<i>Timothy Butler</i>	4/9/22
Signature of Applicant	Date

_____	_____
Signature of Representative (if any)	Date

SCHEDULE OF ELEVATIONS

at Foundation 97.14
 Septic Tank Inlet Invert 96.50
 Septic Tank Outlet Invert 96.30
 Pump Chamber Inlet Invert 96.20
 Pump Chamber Outlet Invert 96.46
 D-Box Inlet Invert 101.67
 D-Box Outlet Invert 101.55
 Leaching Trench Beg. Invert 101.32
 Leaching Trench End Invert 101.13
 Leaching Trench Bottom Invert 99.02
 Design Groundwater Elevation 95.13

AS-BUILT ELEVATIONS

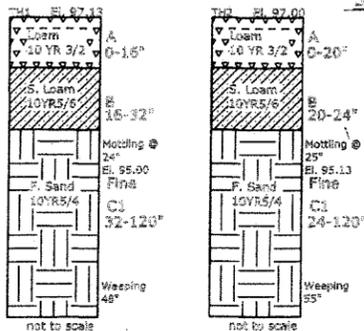
at Foundation 97.14
 Septic Tank Inlet Invert 96.52
 Septic Tank Outlet Invert 96.32
 Pump Chamber Inlet Invert 96.36
 Pump Chamber Outlet Invert 96.53
 D-Box Inlet Invert 101.64
 D-Box Outlet Invert 101.51
 Leaching Trench Beg. Invert 101.32
 Leaching Trench End Invert 101.13
 Leaching Trench Bottom Invert 99.02
 Design Groundwater Elevation 95.13

SCHEDULE OF ITES

ITEM	A	B	C
1	33'5"	40'	
2	30'8"	42'	
3	49'	44'5"	
4	40'8"	51'	
5	53'6"		31'3"

SOIL LOSS

Dates Conducted: December 11, 2003
 Conducted by: William C. Murphy
 Witnessed by: Bob Luspold, Sudbury Health Dept.



Percolation Test #1 @ 54" 5 NPI
 Percolation Test #2 @ 54" 3 NPI

1. William Murphy, certifies that on 10/9/04 he passed the examination approved by the DEP and that the above analysis has been performed by him consistent with the training, expertise, and experience described in 310 CMR 15.018 (2).

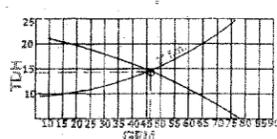
Pump Calculations

- TDH = Static Head (9.14') + Friction Loss (4.00') = 13.14 feet
- Dose = Daily Flow (550 gallons) + force main volume (7 gallons) = 557 gallons
- Dose 4 Time Per Day = 138 gallons/dose
- Pump on #1. Pump off #1. 92.53 = .55' .58feet/height x 7.66feet/tank length x 4.17 (tank width) = 18.57 cubic feet
- 18.57 cubic feet x 7.48 gallons/cubic feet = 139 gallons
- Emergency Storage = Pump Chamber In 96.20 - Alarm On 93.60 = 2.6 feet
- 7.66 ft (tank length) x 4.17 ft (tank width) x 2.6 ft (height) = 83.26 cubic feet
- 83.26 cubic feet x 7.48 cubic feet/gallon = 622 gallons

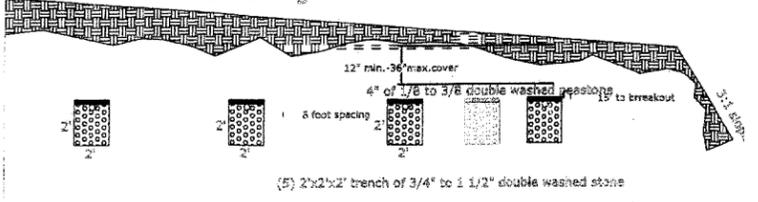
Pump Notes

- The contractor shall be responsible for installing the following: submersible pump, single force main, and the electrical panel.
- The pump shall be a Myers 4 HP submersible w/ 2" flanges, AHS-1 level control (mercury switch), AMPLCA alarm control, NEMA 1 control box, 2 check valve, 2" threaded plug through cleanout, and a 1/4" weep hole.
- The high water alarm shall consist of a mercury float switch w/PLCA alarm control w/separate circuit for pump.
- Equipment shall be installed in accordance w/ manufacturers specifications.
- The alarm shall be readily observable by the occupants.
- Float bells shall be installed to prevent entanglements.

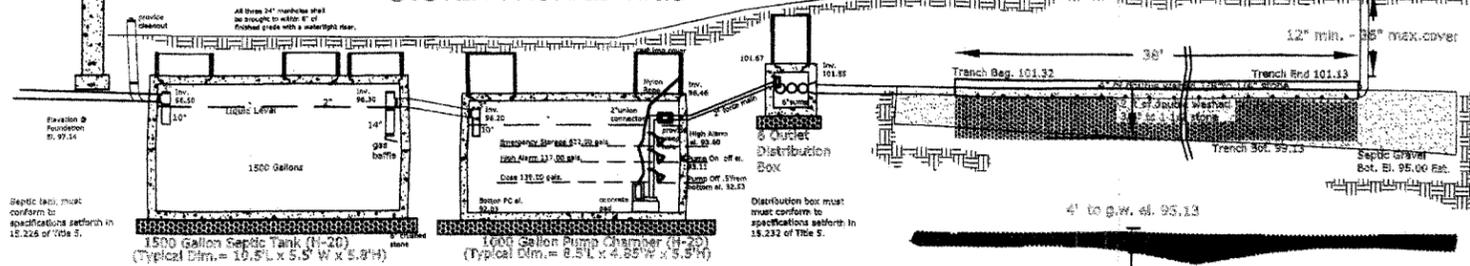
Pump Curve



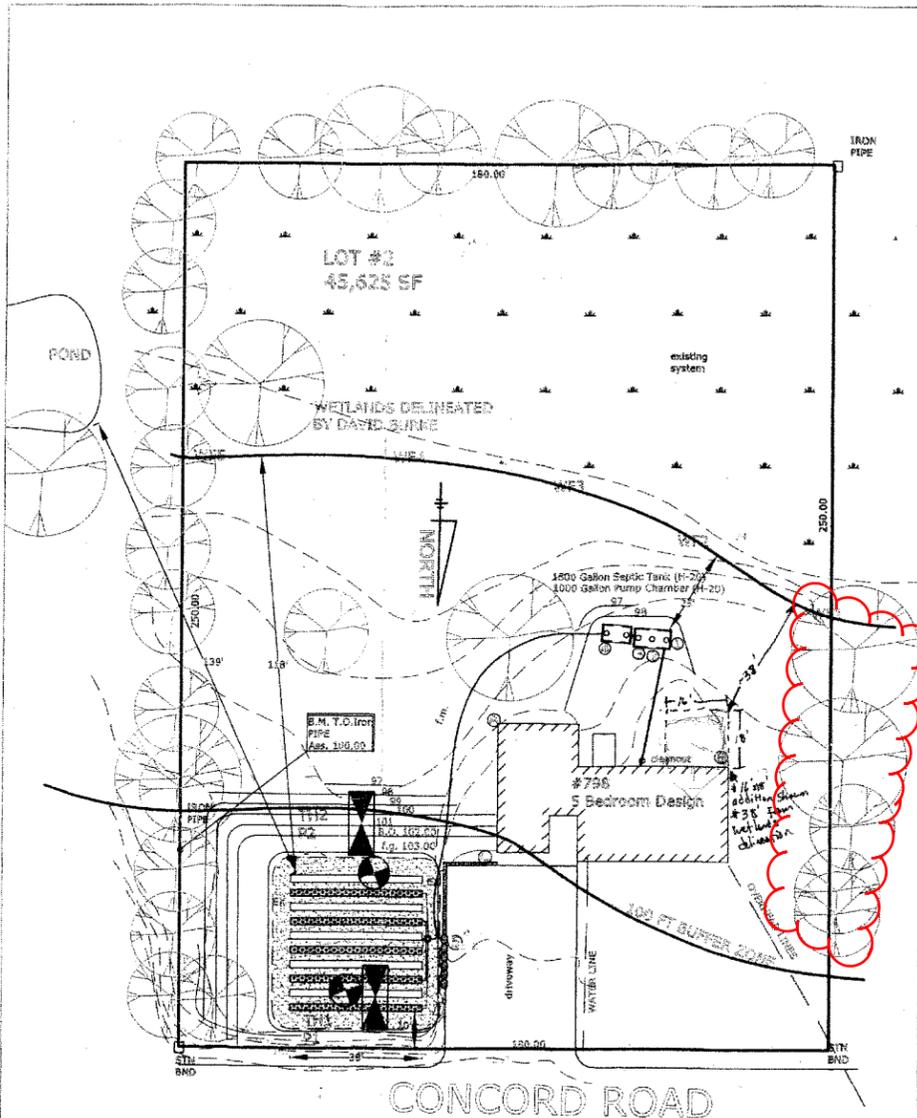
Leaching Trench Detail n.t.s.



SYSTEM PROFILE n.t.s.



AS-BUILT CERTIFICATION
 I, William Murphy, certify that the septic system installed at #798 Concord Road, Sudbury, by David Poor was installed in accordance with the design plan dated 2/2/04. The septic system installed conforms with Title 5 and falls within all acceptable tolerances set forth by Title 5 and the Sudbury Health Department regulations.



Design Criteria

Design Flow:
 5 Bedrooms @ 110 Gal./Day/Bed
 = 550 Gallons/Day
 Soil Class: I
 Effluent Loading Rate: .68 Gal./Day/Sq.Ft.
 Type of Soil Absorption System (SAS): Leaching Trenches
 Garbage Disposal Allowance: NO (The use of garbage disposals may cause the premature failure of the SAS) Increase Leaching Area
 Leaching Area Required: 150 SF
 Sidewall/Bedroom x 5 = 750 SF
 Leaching Area Provided: 1140 SF
 5 Trenches (2'x2') 38 R
 long = Total = 1140 SF
 Sidewall = 760 SF

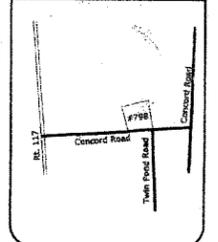
Other Notes

- The contractor shall notify the engineer of any site plan modifications.
- The property is not located within a ZONE II.

General Notes

- All engineering and fabrication of the septic system shall be in accordance with Title 5 and the Sudbury Board of Health Regulations.
 - The contractor must have a valid license in the Town of Sudbury.
 - All survey information was obtained from owner. The plot plan is for specific design purposes only and shall not be used to establish lot lines.
 - The contractor is responsible for contacting DigSafe 1-888-344-7233.
 - Elevations are based on assumed datum unless otherwise noted.
 - The design is based upon soil being consistent throughout the area. Any observation that differs from the test holes must be brought to the attention of the designer. The designer is not responsible for untested areas.
 - The contractor is responsible for contacting the design engineer and the local Board of Health 48 hours prior to any requested inspection.
 - After the installation and prior to backfilling, the contractor must stake and flag the outer boundaries of the soil absorption system. These markings must remain in place until the Certificate of Completion is issued by the Board of Health. No heavy equipment shall pass over the system.
 - The existing system shall be pumped, collapsed, and filled with clean sand.
 - It is recommended that the septic tank be pumped a minimum of every two years, annually with a garbage disposal.
- System Notes**
- All piping shall be schedule 40 pipe unless otherwise specified.
 - All piping (with the exception of the soil absorption system) shall be bedded in fill free from stones and rocks. The bedding on the pipe shall be visible to verify pipe specifications.
 - Extension manholes shall be required for the soil absorption system to extend within 6 inches of finished grade. The tank shall have a minimum cover of 8 inches.
 - An extension manhole for the distribution box shall be brought to within 6 inches of finished grade.
- Construction in Fill**
- Fill for the system shall be comprised of clean granular sand, free from organic matter and deleterious substances. Shales and layers of different soil classes shall not be used. The fill shall not contain any material larger than two inches. A sieve analysis, using a #4 sieve shall be performed on a representative sample of the fill. Up to 45 % by weight of the fill sample may be retained on the #4 sieve. Sieve analysis shall also be performed on a fraction of the fill sample passing through the #4 sieve, such analysis also shall be demonstrated that the material meets each of the specifications of 310 CMR 15.235 (3).
 - Where fill is required to replace unsuitable or compressible soils, the excavation of the unsuitable material (topsoil, subsoil, and any deleterious material) shall extend a minimum of five feet laterally in all directions beyond the outer perimeter of the soil absorption system to a depth of 6 inches into the naturally occurring various material as required by 310 CMR 15.240 and replaced with the fill specified above.
 - The bottom of the excavation shall be scarified and relatively dry. Fill shall not be placed in rain or snow storms. If the water table elevation is above the elevation to the bottom of the excavation, the excavation shall be dewatered.
- Soil Absorption System**
- All piping shall be schedule 40 pipe and shall be connected with joints that are weathertight and in sound condition.
 - The first two feet of the distribution lines (from D-Box) shall be level.
 - The orifices shall be evenly spaced along two rows curving the length of the line, on each side, midway between the invert, and the centerline which separates the upper and lower halves of the pipe. For gravity systems, the orifices shall be no smaller than 1/2 inch and no larger than 3/4 inch in diameter.
 - The slope must be maintained over the SAS for a finished grade so that the water will drain away.
 - No permanent structures must be placed over the SAS or 100% reserve area.
 - The ends of the distribution lines must be capped or plugged if unvented.
- STONE**
- Only double washed stone is permitted to be used for the soil absorption system (less than .2% material finer than the number 200 sieve as determined by ASTM method 7-12 and 7-27).

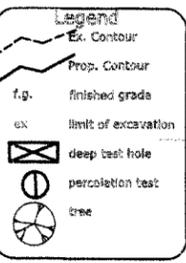
Locus Map



Firm Name and Address
 PureGround, Inc.
 William C. Murphy
 P.O. Box 512
 Weston, MA
 (781) 259-9900

Project Name and Address
 SEPTIC SYSTEM
 at
 #798 Concord Road
 Sudbury, MA
 Map D11 Parcel 16
 Lou Gianetti
 (978) 443-2941

Project 798 Concord Road
Date 2/2/04
Scale 1" = 20 feet
Sheet Page 1 of 1

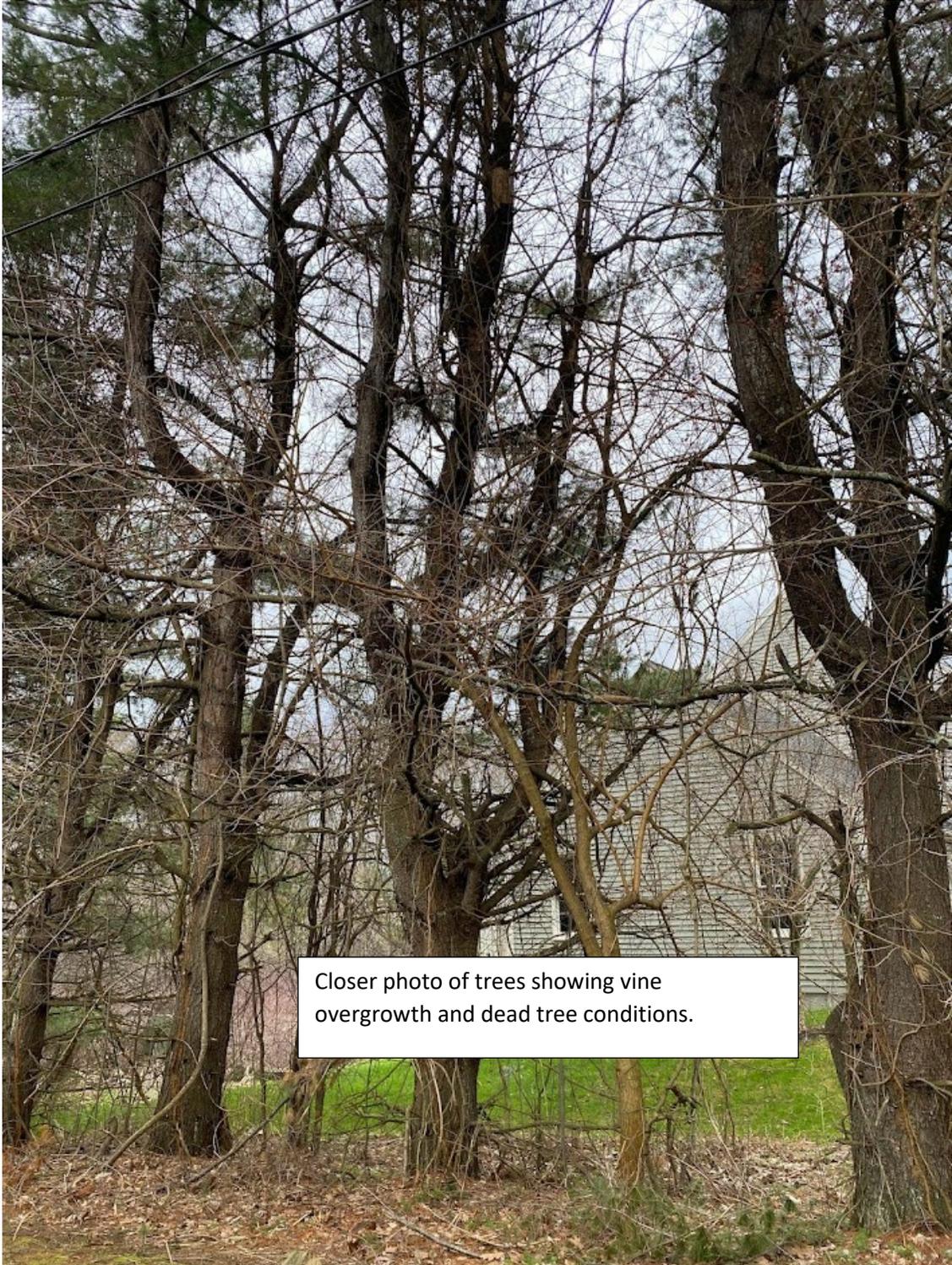


= Area of Tree Removal and Replacement



Daughter's bedroom

Subject trees to be removed
and replaced with eastern
arborvitae.



Closer photo of trees showing vine overgrowth and dead tree conditions.



Reverse angle of subject trees. Photographer is in back yard looking towards Concord Road.