

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 an existing septic system with a tight tank within the 100-foot Buffer Zone at 316 Boston Post Road, in Sudbury, MA. Mark Alexander, Applicant. The meeting will be held on Monday, August 26, 2024 at 7:00 pm, via Zoom.

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

 $\underline{https://sudbury.ma.us/conservationcommission/meeting/conservation-commission-meeting-monday-August-26-2024/}$

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

SUDBURY CONSERVATION COMMISSION 8/5/2024



Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

General Information

WPA Form 1- Request for Determination of Applicability Sudbury

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

Municipality

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:		
Mark	Alexander	
First Name	Last Name	
316 Boston Post Road		
Address		
Sudbury	MA	01776
City/Town	State	Zip Code
978 443 2001	mark@alexande	erautomotiveservice.com
Phone Number	Email Address	
2. Property Owner (if different from Applica	nnt):	
Testwork Revocable Trust		
First Name	Last Name	
316 Boston Post Road		
Address		
Sudbury	MA	01776
City/Town	State	Zip Code
Phone Number	Email Address (if ki	nown)
3. Representative (if any)		
Michael	DiModica	
First Name	Last Name	- 100, 700, 700, 700, 700, 700, 700, 700,
M. J. DiModica Excavating		
Company Name	1	
19 Christopher Lane		
Address		
Sudbury	MA	01776
City/Town	State	Zip Code
978 443 8433	midimodica@ve	arizon net

В. **Project Description**

216 Poston Bost Bood

Phone Number

1.	a.	Project Location	(use maps an	ia pians to ia	entity the location	n of the area subject	ct to this request):
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3 10 BUSTOIT FUST ROAU	Sudbury
Street Address	City/Town
Latitude (Decimal Degrees Format with 5 digits after decimal	Longitude (Decimal Degrees Format with 5 digits after
e.g. XX.XXXXX)	decimal e.gXX.XXXXX)
K09	405
Assessors' Map Number	Assessors' Lot/Parcel Number

How to find Latitude and Longitude

and how to convert to decimal degrees

wpaform1.doc • rev, 4/28/2023

b. Area Description (use additional paper, if necessary): Commercial Automotive Repair Shop

c. Plan and/or Map Reference(s): (use additional paper if necessary)

Tight Tank System October 25, 2018 Title Date

Title Date

Email Address (if known)

Cudhun

Received

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Massachusetts Department of Environmental Protection Bureau of Water Resources - Wetlands

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

Project Description (cont.) B.

2.	Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary): e Attached Narrative
	Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant in having to file a Notice of Intent for all or part of the described work (use additional paper, if sessary).
3.	If this application is a Request for Determination of Scope of Alternatives for work in the erfront 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.
	Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification ove (use additional paper and/or attach appropriate documents, if necessary.)



Massachusetts Department of Environmental ProtectionBureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Sudbury Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Municipality

C.	Determinations
1. Ire	equest the Sudbury make the following determination(s). Check any that apply:
	a. whether the area depicted on plan(s) and/or map(s) referenced above 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 above are accurately delineated.
	c. whether the Activities depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.
	d. whether the area and/or Activities depicted on plan(s) referenced above 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 Activities in the Riverfront Area as depicted on referenced plan(s).
D.	Signatures and Submittal Requirements
I hereb	by certify under the penalties of perjury that the foregoing Request for Determination of Applicability companying plans, documents, and supporting data are true and complete to the best of my
Office	er certify that the property owner, if different from the applicant, and the appropriate DEP Regional were sent a complete copy of this Request (including all appropriate documentation) uneously with the submittal of this Request to the Conservation Commission.
Failure Determ	by the applicant to send copies in a timely manner may result in dismissal of the Request for ination of Applicability.
Signatu	ures:
Sign	anderstand that notification of this Request will be placed in a local newspaper at my expense ordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations. 7 30 24 Date 7 30 24 Date

316 Boston Post Road

Sudbury, MA

Tight Tank

Narrative

The site consists of an Auto Repair shop (Service Garage) with two (2) bays. There are no more than three (3) employees currently and the restrooms are not open to the public. The structure is located on a very small lot (8,829 s.f.) with high water table and very little room to work with. The site is located on Boston Post Road with no sewer available in town and catch basins in the Right of Way on Boston Post Road. After review with the town health agent the proposed use of the tight tank was the most effective way to provide on-site service for the facility.

The owner proposes the waste be monitored visually every 30 days and pumped as needed.

Pumping By:

Fairbanks Septic Pumping

239 Nobscot Road

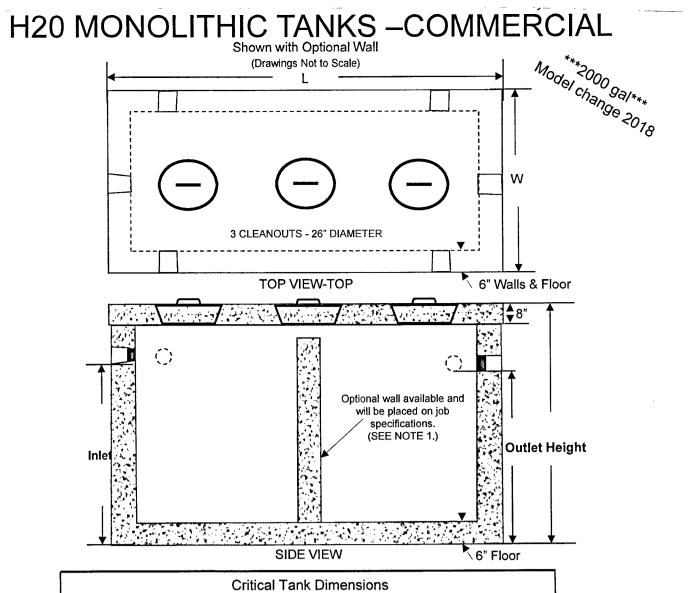
Sudbury, MA 01776

The waste shall be disposed of at:

Fitchburg Wastewater Treatment Plant

401 Princeton Road

Fitchburg, MA



Critical Tank Dimensions				
Liquid Capacity	Inlet/Outlet	Height	L×W	Excavation Size
1000	58"/56"	76"	9' 4" × 5' 4"	11' 4" × 7' 4"
1500	58"/56"	76"	11' x 6'	13' x 8"
2000	Call	Call	12' 9½" x 6' 11½"	14' x 11'

Special purpose Mono Tanks also available including FAST tanks & 2-Compartment tanks (wall placement & cleanout to be determined by job specs.)(*Cleanout cover placement varies.) Concrete strength f'c 5000PSI@28 days. Density 150 PCF.

Cement, Portland Type II or III, ASTM C150-81 Admixtures, air & plasticizers per ASTM C233-82 Reinforcement per ASTM C1227-latest revision

Design Loading AASHTO HS20-40
Constructions joints sealed with butyl rubber

Design conforms to 310 CMR 15.00, Mass Title V regs. for septic tanks

2,000 GALLON TIGHT TANK

BUDYANCY CALCULATIONS

I, WT OF TIGHT TANK

ENDS: (2)(7')(6')(.5) = 42 CF

SIDES: (2)(13')(6')(.5) = 78 CF

BOTTOM: (12.75)(6.9)(.5) = 44 CF

TOP : (12.75)(6.9)(.67) = 59 CF

223 CF

223 CF x 150 #/CF = 33,450 #

WT OF SOIL -> 4"

 $(12.75)(6.9)(\frac{4}{12})(95 \#/cF) = \frac{2,786}{}$

2. TIGHT TANK DISPLACEMENT 36,236 +

FB = VV X

V=(12.75)(6.9)(6.2) = 546 CF

V = 5/6 => ASSUMING 5 FT SUBMERGED = 0.83

8 = 62.4 #/CF

FB = 546 CF x 5/6 x 62.4 #/cF = 28,280 #

36, 236# > 28, 280 # .'. TANK WILL NOT FLOAT

BOSTON

POST

FS = 1.28

ELEVATIONS

INV & FDN

INV @ HOLDING TANK 99.4 1/-

99.67-

CONSTRUCTION NOTES

- All Elevations refer to Benchmark concrete sidewalk corner elevation 100.
 All construction shall conform to the requirements of Title 5 of the Massachusetts
- All construction shall conform to the requirements of Title 5 of the Massachusetts State environmental code and the board of health regulations of the town of Sudbury.
- 3. All tight joint piping shall consist of polyvinyl chloride (PVC) schedule 40 or as
- 4. Any alteration to the approved plan must be approved by the design engineer and the board of health prior to construction.
- 5. The contractor shall be responsible for verifying the location, size, and elevations of all existing utilities shown or not shown on these plans prior to and/or during construction. The design engineer shall be notified in writing of any utilities found interfering with the proposed construction so that remedial action may be taken before proceeding with construction.
- 6. Compliance with all applicable regulations of the board of health, conservation commission, and other town agencies is mandatory and is the responsibility of the owner and not the designer. The owner is hereby notified that any construction within 100 feet of a regulated wetland usually requires an order of conditions from the conservation commission or Mass DEP.
- 7. All precast structures shall be H-20 wheel loading, waterproof and water tight.8. Audio and visual signals shall be set to activate when 3/5 of the capacity of the tight tank has been reached. The alarm panel shall be located in a conspicuous location.
- 9. The tight tank shall be serviced by a licensed septage hauler in the town of Sudbury upon the alarm being activated. The contents of the tank shall be properly disposed of at a licensed sewage treatment plant.
- properly disposed of at a licensed sewage treatment plant.

 10. The contents of the tight tank shall be strictly sanitary sewage.
- 11. The tight tank shall have (1) 24" diameter cast iron cover and frame to grade for pumping. There shall be no surface water entering the tank through the cast iron cover or frame.
- FROM PLAN BY SULLIVAN, CONNORS AND ASSOCIATES DATED OCT 7,2020.

TIGHT TANK DESIGN

SERVICE GARAGE 2BAYS D 125 GPD = 250 GPD

MIN TIGHT TANK CAPACITY
500 % X 250 6PD

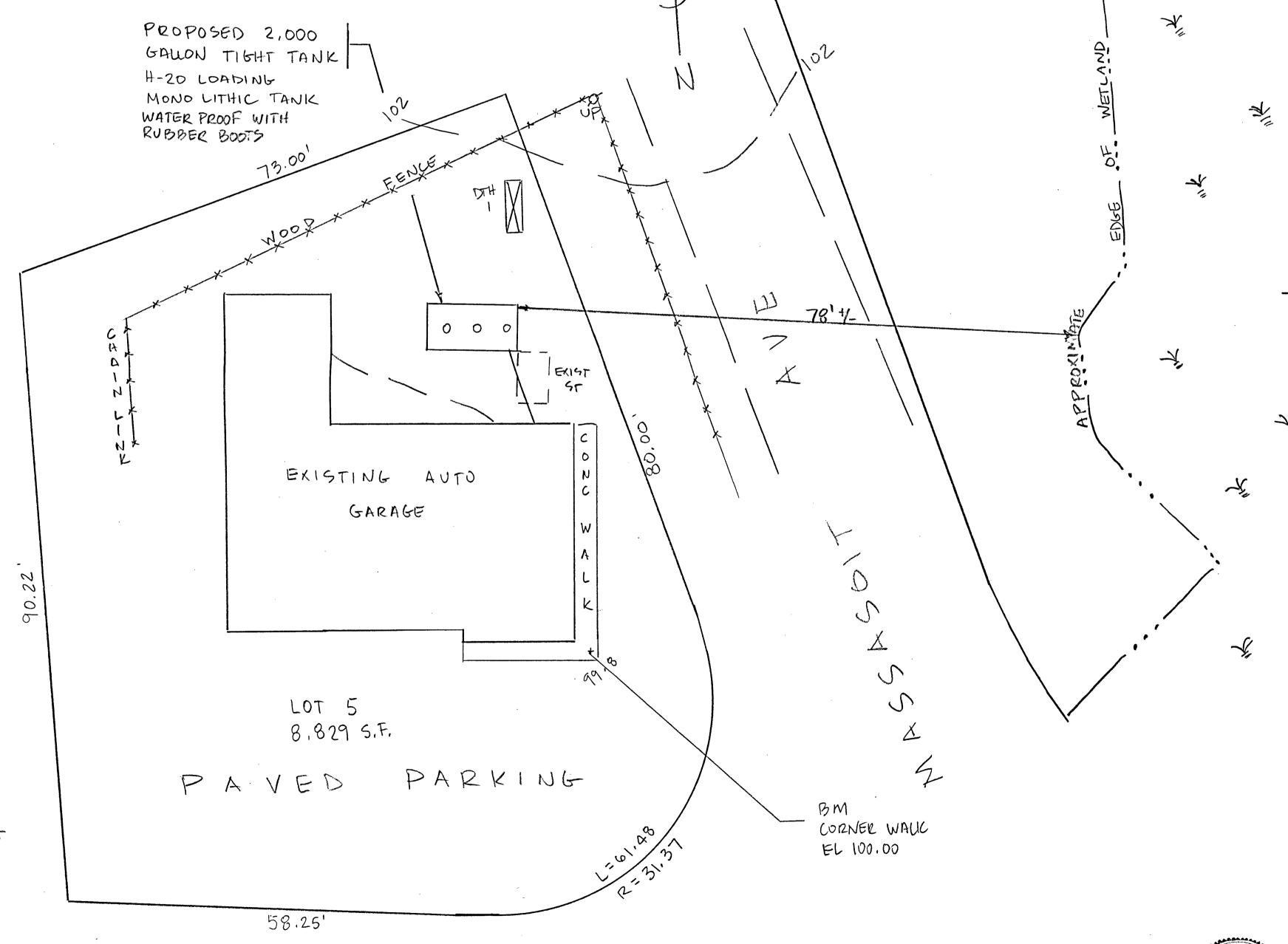
500 % X 250 6PD = 1250 GALLONS

PER TITLE 5 SEC 15.260 MIN 2,000 TIGHT

H-20

EL 101,5%- DTH 1 8.3.18 0-54" FILL 54"-70" PEAT 70"-120" L.S.

H.C. MOTTLES 2 30" EL 99.01/-



ROAD

TIGHT TANK SYSTEM
316 BOSTON POST ROAD
SUDBURY, MA

PREPARED FOR:
MARK ALEXANDER
316 BOSTON POST ROAD
SUDBURY, MA
PREPARED BY;
M. I. DI MODICA EXC.

M.J. DI MODICA EXC. 19 CHRISTOPHER LN SUDBURY MA 01776

OCTOBER 25, 2013

SCALE: 1" = 10'