



REQUEST FOR DETERMINATION OF APPLICABILITY APPLICATION

For the Upgrade of a Septic System
Within the Buffer Zone
To a Bordering Vegetated Wetland

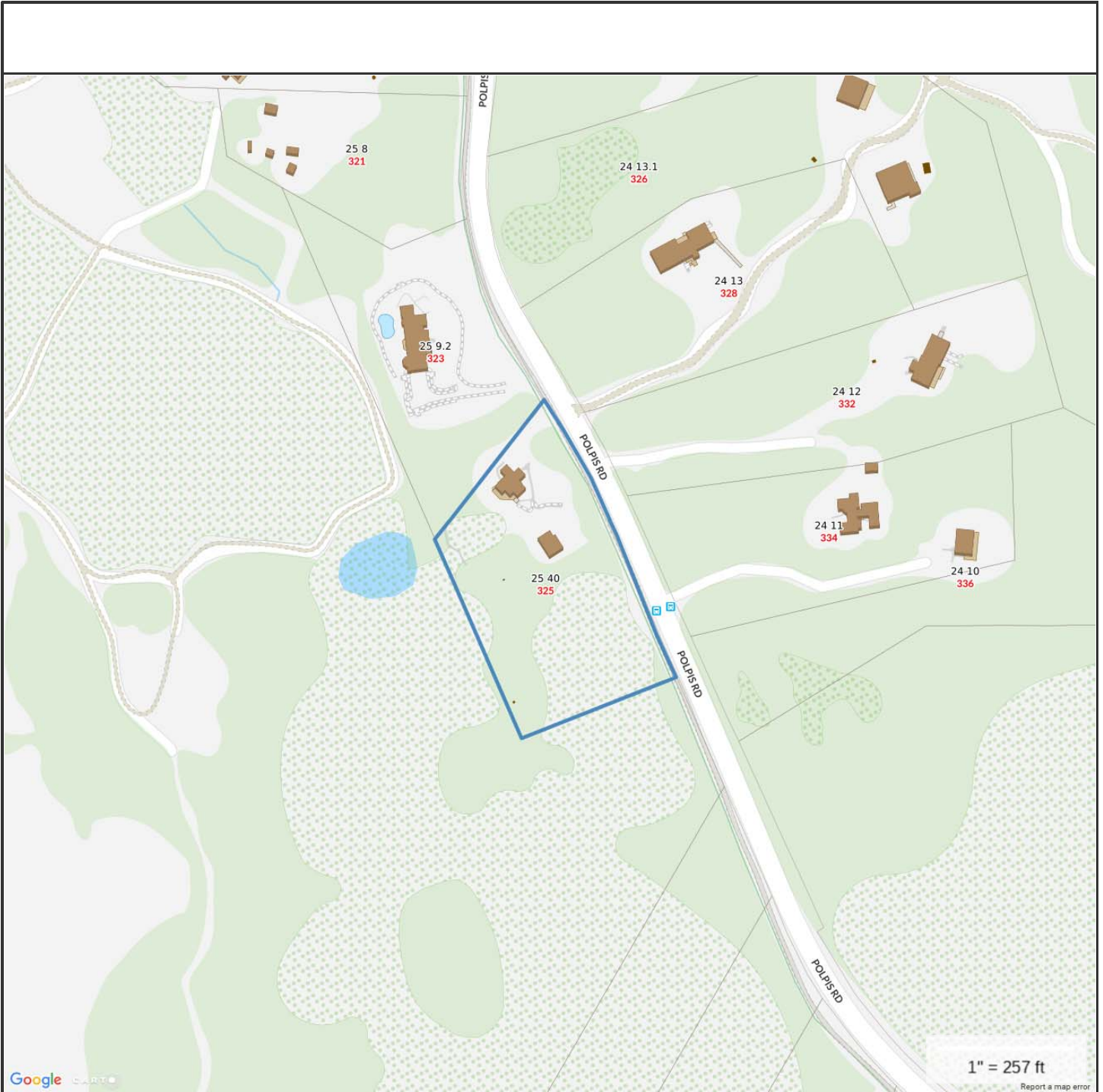
At

325 Polpis Road
Nantucket, MA

September 2018

Prepared For

Ted Godfrey & Joyce Jaskula



Google CART

1" = 257 ft

[Report a map error](#)

Property Information

Property ID 25 40
Location 325 POLPIS RD
Owner GODFREY TED & JASKULA JOYCE



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

Town and County of Nantucket, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Parcels updated 09/14/2018
Properties updated 09/28/2018



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:

Ted Godfrey & Joyce Jaskula

Name

E-Mail Address

325 Polpis Road

Mailing Address

Nantucket

City/Town

MA
State

02554
Zip Code

Phone Number

Fax Number (if applicable)

2. Representative (if any):

Nantucket Engineering & Survey, P.C.

Firm

Arthur D. Gasbarro, PE, PLS

Contact Name

art@NantucketEngineer.com

E-Mail Address

20 Mary Ann Drive

Mailing Address

Nantucket

City/Town

MA
State

02554
Zip Code

508-825-5053

Phone Number

Fax Number (if applicable)

B. Determinations

1. I request the Nantucket _____ make the following determination(s). Check any that apply:
Conservation Commission

- 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:

Nantucket

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

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

<u>325 Polpis Road</u>	<u>Nantucket</u>
Street Address	City/Town
<u>25</u>	<u>40</u>
Assessors Map/Plat Number	Parcel/Lot Number

b. Area Description (use additional paper, if necessary):

The subject property is located in the Poplis area of Nantucket. The area is developed residentially, with properties served by on-site wells & septic systems. The Bordering Vegetated Wetland resource area boundary is along the southern side of the property as shown on the site plan.

c. Plan and/or Map Reference(s):

<u>Site Plan of Land For an Upgrade of an Onsite Septic System</u>	<u>8/2/18</u>
Title	Date
<u> </u>	<u> </u>
Title	Date
<u> </u>	<u> </u>
Title	Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

The Applicant proposes to upgrade an onsite septic system partially within the buffer zone to the vegetated wetland. A new septic tank and pump chamber will be installed outside of the 50-foot buffer zone, and a new leach field outside of the 100-foot buffer zone. The existing septic tank will continue to be used as part of the system.



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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).

All work is located greater than 25-feet from the resource area. No waivers are required from applicable regulations.

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:

Ted Godfrey & Joyce Jaskula

Name

325 Polpis Road

Mailing Address

Nantucket

City/Town

MA

State

02554

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.

Agent

Signature of Applicant

9/28/18

Date

Signature of Representative (if any)

9/28/18

Date

SITE PLAN OF LAND
325 POLPIS ROAD
MAP 25 PARCEL 40
NANTUCKET, MA
AUGUST 2, 2018
SCALE: 1"=30'

LOT AREA=141,532± S.F.

THIS PLOT PLAN WAS PREPARED FOR PERMITTING PURPOSES ONLY AND SHOULD NOT BE CONSIDERED A PROPERTY LINE SURVEY. THIS PLAN SHOULD NOT BE USED TO ESTABLISH PROPERTY LINES, FENCES, HEDGES OR ANY ANCILLARY STRUCTURES ON THE PREMISES. THE PROPERTY LINES SHOWN RELY ON CURRENT DEEDS AND PLANS OF RECORD. THIS PLOT PLAN IS NOT A CERTIFICATION AS TO TITLE OR OWNERSHIP OF THE PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE SHOWN ACCORDING TO CURRENT ASSESSOR RECORDS. LAYOUT SHOWN HEREON DOES NOT IMPLY CONFORMANCE WITH ZONING BY-LAWS.

PROPERTY DATA

OWNER:
 TED GODFREY
 JOYCE JASKULA
 CERT. 14,736
 LC PLAN 7300-5, LOT 44

*LOCAL UPGRADE APPROVAL REQUIRED FOR TANKS WITHIN 10-FEET OF A PROPERTY LINE AND FOUNDATION

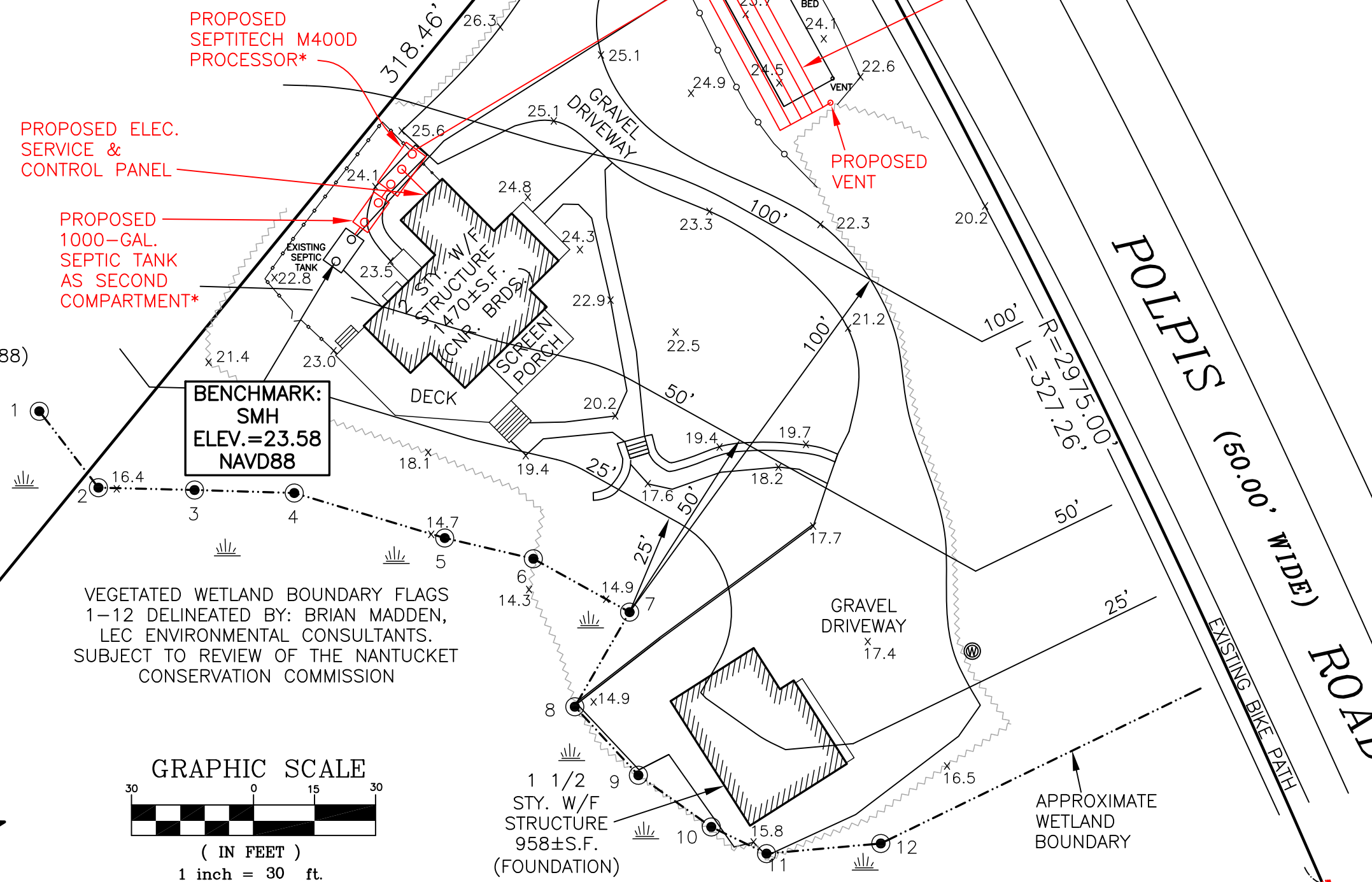
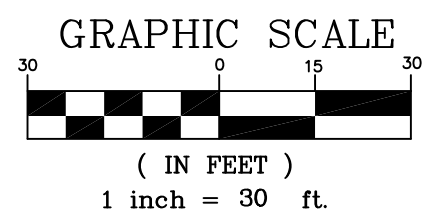
LEGEND

- x 24.3 DENOTES EXISTING SPOT ELEVATION (NAVD88)
- 1 ● DENOTES EXISTING WETLAND FLAG
- ⊙ DENOTES EXISTING WELL

25-9.2 N/F DAVID KOWITZ

25-38 N/F NANTUCKET CONSERVATION FOUNDATION

VEGETATED WETLAND BOUNDARY FLAGS 1-12 DELINEATED BY: BRIAN MADDEN, LEC ENVIRONMENTAL CONSULTANTS. SUBJECT TO REVIEW OF THE NANTUCKET CONSERVATION COMMISSION

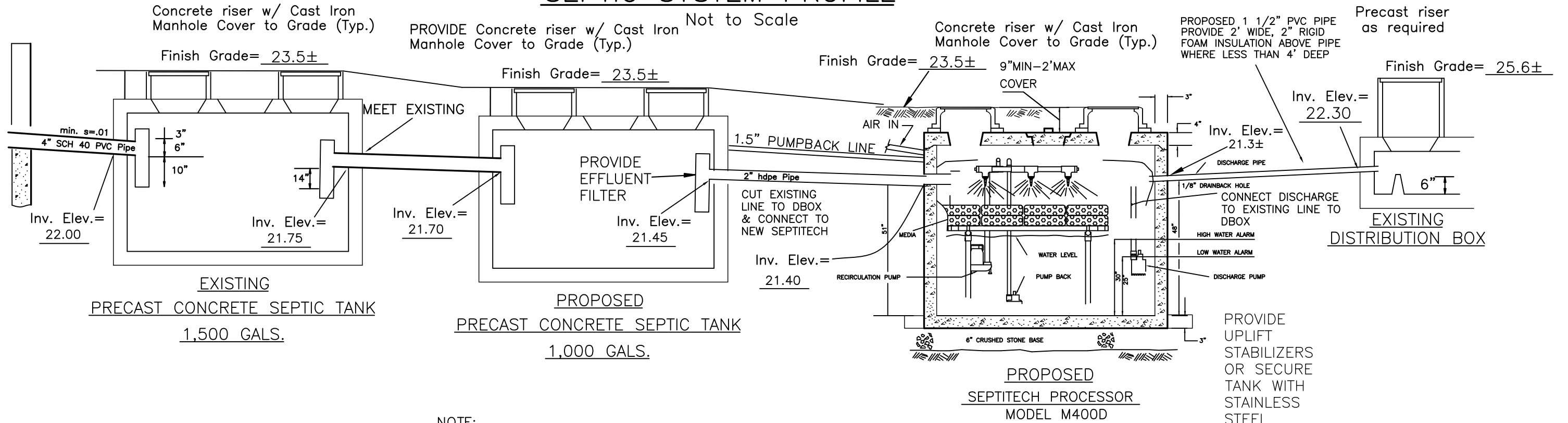


REMOVE EXISTING LEACH BED & DELETERIOUS MATERIAL. REPLACE WITH CLEAN TITLE 5 SAND.

PROPOSED LEACH BED 12'x38' W/24 CHAMBERS

MAINTAIN EXISTING GRADES.

SEPTIC SYSTEM PROFILE



NOTE:
SYSTEM TO BE INSTALLED IN ACCORDANCE
WITH ALL MANUFACTURER'S SPECIFICATIONS

SEPTITECH NOTES

- SEPTITECH PROCESSOR SHALL BE INSTALLED IN ACCORDANCE WITH SEPTITECH INSTALLATION INSTRUCTIONS.
- TANK(S) SHALL NOT BE INSTALLED AT A DEPTH ANY GREATER THAN 24-INCHES. TANK INSTALLATION REQUIRING A DEPTH GREATER THAN 24-INCHES SHALL DO SO WITH PRIOR APPROVAL BY SEPTITECH ONLY.
- TANK(S) SHALL BE INSTALLED WITH A MINIMUM OF 6-INCHES OF COMPACTED CRUSHED PEA STONE OR SAND BEDDING. SELECT FILL SHALL BE USED BACKFILLING AROUND TANKS.
- EXTERIOR PIPING: CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL EXTERIOR PIPING PER SEPTITECH INSTALLATION DRAWINGS.
- AIR INTAKE PIPING: AIR INTAKE SNORKEL SHALL BE INSTALLED WITHIN 100 FEET OF THE PROCESSOR TANK. AIR INTAKE PIPING SHALL BE INSTALLED SUCH THAT A POSITIVE PITCH IS PROVIDED BACK TOWARDS THE PROCESSOR TANK SUCH THAT ANY CONDENSATION BUILD UP IS FREE TO DRAIN.
- PIPE INSULATION: CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL PIPING EXTERIOR TO THE SEPTITECH PROCESSOR INCLUDING THE DISCHARGE LINE FROM THE PROCESSOR TO THE DISPOSAL FIELD.
- TANK INSULATION: AFTER TANK HAS BEEN INSTALLED, CONTRACTOR SHALL INSULATE THE TOP AND SIDES OF THE PROCESSOR TANK BELOW FROST DEPTH (4- FEET MINIMUM) WITH 2" RIGID FOAM(BLUE) BOARD INSULATION AND THEN COMPLETE BACKFILLING.
- ELECTRICAL: ALL ELECTRICAL WORK IS THE RESPONSIBILITY OF THE CONTRACTOR'S LICENSED ELECTRICIAN AND IS NOT PROVIDED BY SEPTITECH. SYSTEM CONTROLLER SHOULD BE INSTALLED IN A HEATED BUILDING WHERE AN AMBIENT TEMPERATURE RANGE OF 60 TO 90 DEGREES F IS MAINTAINED. IF THE CONTROL PANEL MUST BE LOCATED OUTSIDE, PLEASE NOTIFY SEPTITECH, INC. SO A HEATER MAY BE INSTALLED WITHIN THE ENCLOSURE.

NOTES

- (-) Chambers and riser sections shall be made water tight.
- (-) The piping shall be secured from movement in all directions with mountings designed to withstand working forces.
- (-) Force main to have constant pitch with no sags.
- (-) Pipe to be set in clean fill material with no stones larger than 2 inches.
- (-) Thrust blocks to be installed where required or where shown.
- (-) All underground pipes, power and control lines to have continuous marker 1 foot above line.
- (-) There are to be no wiring splices within the pump chamber or risers

NOTE:
ALL WORK TO CONFORM TO
310CMR15.00 (TITLE 5) & THE
REGULATIONS OF THE TOWN OF
NANTUCKET

CONTRACTOR TO CONTACT DIGSAFE
AND PROTECT ANY UNDERGROUND
UTILITIES FROM DISRUPTION

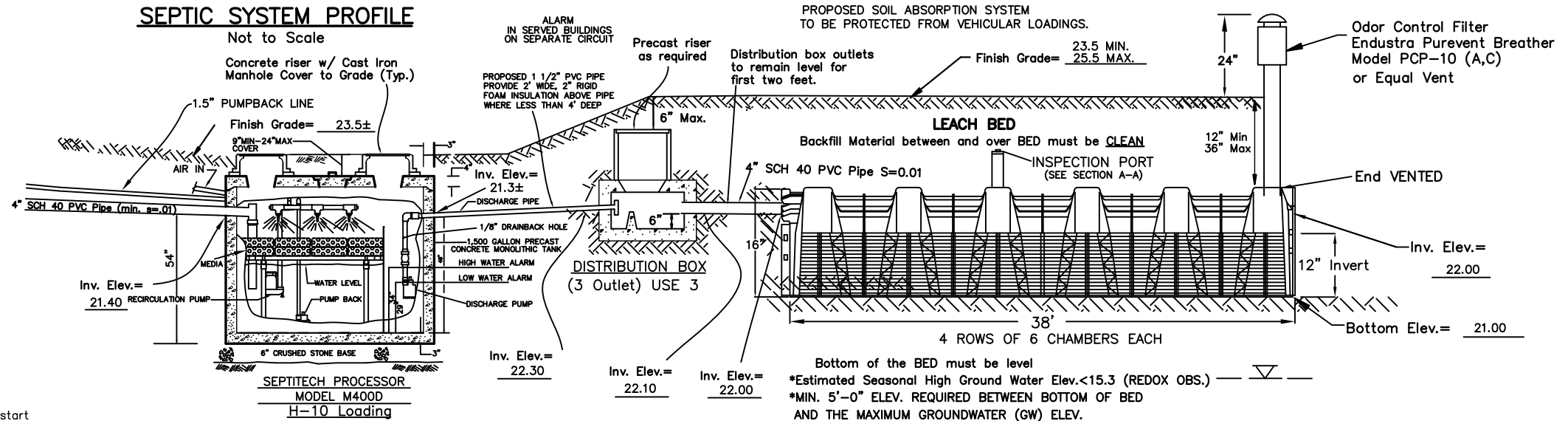
CONTACT DESIGN ENGINEER IN THE
EVENT OF ANY UNCERTAINTY
ON-SITE OR WITH THE DESIGN
PLANS.
NO DEVIATIONS FROM THE PLANS
ARE PERMITTED WITHOUT THE
WRITTEN CONSENT OF THE DESIGN
ENGINEER

PROPOSED UPGRADE OF A SUBSURFACE WASTEWATER TREATMENT AND DISPOSAL SYSTEM

OWNER:
TED GODFREY
JOYCE JASKULA
CERT. 14,736
LC PLAN 7300-5, LOT 44
AUGUST 2, 2018
NO SCALE

NANTUCKET
ENGINEERING
& SURVEY, PC
20 Mary Ann Drive Nantucket, MA 02554
NantucketEngineer.com 508-825-5053

SEPTIC SYSTEM PROFILE



GENERAL CONSTRUCTION NOTES

- All construction to conform to 310 CMR 15.00, TITLE 5 and Regulations of the Nantucket Board of Health.
- Any deviation or alteration in the construction from the approved plan without the expressed permission of the Design Engineer may invalidate the design and endanger the issuance of a certificate of compliance.
- Nantucket Engineering & Survey shall be contacted three (3) days prior to the start of construction by the Installer. (508) 825-5053
- This plan does not warrant or imply any subsurface conditions other than those observed at the immediate testpit locations. In the event impervious or unsuitable material is encountered during construction, said impervious or unsuitable material is to be removed and replaced. See Title 5, 15.255 Construction in Fill.
- Delivery piping from the building wall to the Distribution Box shall be SCH40, 4 inch diameter PVC placed at a minimum 2% slope (2% = 0.02 feet per foot or 2' per 100'). All PVC to PVC connections are to be SOLVENT WELDED. Backfill material in proximity to delivery and/or distribution lines is to be free from tailings, clay or similar materials.
- A cleanout is to be provided in proximity to the building wall to enable a Pumper to clear the house to tank line.
- Distribution lines are to be PVC Schedule 40 NSF or PVC Schedule 35 may be used for systems designed for less than 2000 gpd and where no vehicular traffic is anticipated. PVC end caps are to be provided on Distribution Line ends that do not require venting. All Distribution Lines over fifty (50') feet in length are to be vented.
- Any fill required in proximity to delivery piping shall be clean and free of stones larger than 2" dia and be hand tamped to reduce settlement and assure alignment.
- The septic tank shall be pre-cast reinforced concrete in compliance w/Title 5, 15.223 & 15.226 with an H-10 loading. A Schedule 40 Tee is to be installed in both the inlet and outlet baffles of the Precast Concrete Septic Tank. A gas baffle is to be installed over OUTLET BAFFLE.
- The tank shall have three 20 inch minimum diameter manholes with readily removable impermeable covers within 6 inches of finish grade.
- The base of the Distribution Box shall be set on a compacted, suitable, stable base.
- The Distribution Box shall be fitted with an inlet tee (cut-off 1 inch above the outlet invert). Distribution Boxes shall be a minimum 3 Outlets.
- The first length (minimum 2 feet) of each pipe outlet pipe from the Distribution Box shall be laid level. All outlet pipes should draw equally, A WATER TEST WILL BE REQUIRED.
- Topsoil, peat or other impervious (or unsuitable) material shall be removed from below and for a distance of 5 feet in all directions around the disposal works footprint and replaced with clean, suitable material as described in TITLE 5, 15.255:(3) Construction in Fill.
- Trench bottoms excavated in natural material must be scarified to off-set any machine compaction of the bottom surface.
- All fill used in conjunction of the system construction must conform to Title 5, 15.255:(3) Construction in Fill.
- All stone used in disposal trench construction must conform to Title 5, 15.247 Aggregate for size and quality.
- Any impermeable material used for the construction of an impervious barrier must be impermeable. (Will not pass water, swells upon contact with water, fine sand is not impervious).
- Areas disturbed by construction shall loamed, seeded, mulched or otherwise stabilized to minimize erosion. The general system area shall be graded with a minimum 2% grade to provide positive surface drainage. Compliance with any Order of Conditions issued by the local Conservation Commission or DEP shall be considered requirements of this design.
- The property lines depicted here-on are GRAPHIC, it is strongly recommended that the actual property lines be field established prior to construction. Conformance to local by-laws shall be determined by the Owner (Client) prior to construction. This disposal works design is not a property line, bank mortgage or title survey.
- In the event that evidence or article of human remains is found during the excavation or construction of this proposed works, all activity on-site is to stop. Immediately contact the State Police (508) 228-0706, Nantucket Police 228-1212 (or 911) and DESIGN ENGINEER
- To prevent the carry over of solids and particulates from the septic tank to soil surfaces in the disposal trenches that are prone to clogging, the septic tank should be inspected periodically to determine the depth of sludge and floatables (grease) accumulation. The tank should be pumped, by a Licensed Pumper, when the sludge volume fills one quarter (1/4) of the tank clear space (or approx every 2 years).
- The Design Engineer will refuse to issue a positive ASBUILT COMPLIANCE certificate if any portion of the construction is covered prior to adequate inspection by DESIGN ENGINEER and the local Health Agent. The Disposal Works is not to be covered until it is authorized by DESIGN ENGINEER
- Asbuilt and inspection time has not been included in the billing for this design. Multiple inspections and analysis to correct deviations from the approved design will be billed as add'l charges. Call (508) 825-5053 when you are ready for your inspection.

DESIGN CRITERIA

- TYPE OF ESTABLISHMENT: 4 BEDROOMS
- DESIGN FLOW: 4 BEDROOMS AT 110 GALS./BEDROOM/DAY = 440 GPD
- SEPTIC TANK SIZE: 1,500 GALLONS: 440 x 200%=880 GAL MIN. - USE EXISTING
PROPOSED 2nd, 1000 GAL. SEPTIC TANK: 440x100%=440 MIN.
PROPOSED SEPTITECH PROCESSOR: M4000
NO ADDITIONAL CAPACITY HAS BEEN PROVIDED FOR GARBAGE DISPOSAL.
- DESIGN PERCOLATION RATE: <5 MINUTES/INCH - SOIL CLASS I (C2 SOIL HORIZON) FROM TITLE 5 SECTION 15.242: LTAR-EFFLUENT LOADING RATES:
- SOIL ABSORPTION SYSTEM (SAS): 440 GPD / 0.74 GPD/SF= 595 SF REQ'D
PROVIDE: 12'x38' LEACH BED: 4 ROWS OF 6 CHAMBERS
24 CHAMBERS x 28.5 SF/CHAMBER = 684 S.F.
- LEACHING CAPACITY PROVIDED (BY TITLE 5): 506 GPD= 684 SF x 0.74 GPD/SF
- MAXIMUM ALLOWABLE LOADING (BY TITLE 5)= 506 GALLONS/DAY
ACTUAL HYDRAULIC LOADING (DESIGN FLOW)= 440 GALLONS/DAY

NOTES:

SEPTITECH 1/A SYSTEM M4000 PER MASSDEP PROVISIONAL USE APPROVAL TO SATISFY TON HEALTH REG. 64.00 - NANTUCKET HARBOR WATERSHED

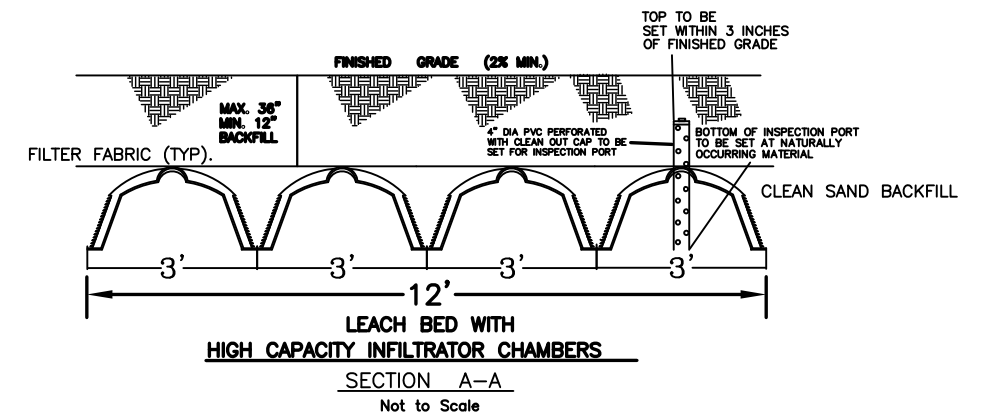
SOIL LOGS

SOIL EVALUATION BY: FRANK HOLGATE
DATE OF TESTING: 6/3/10, WITNESSED BY: RICHARD RAY, NAN. HEALTH DEPT
REMOVE TO ELEVATION 20.3, C1 LAYER, OR UNTIL ALL UNSUITABLE MATERIAL IS REMOVED AND REPLACE TO ELEVATION 21.3 WITH TITLE V SAND 5- FEET ALL AROUND SYSTEM.

DEEP OBS. HOLE # 1 EL.=24.3±

DEPTH	HORIZON	TEXTURE	COLOR	
12'	15"	A	MEDIUM LOAMY SAND	10YR4/2 23.1
	31"	B	MEDIUM LOAMY SAND	10YR5/8 21.7
	120"	C1	MEDIUM SAND	10YR7/4 14.3
	144"	C2	MED. LOAMY SAND	10YR5/6 12.3

MOTTLES @ 108" EL.=15.3
OBS. SEASONAL HIGH GW ELEV. = 12.3



PROPOSED UPGRADE OF A SUBSURFACE WASTEWATER TREATMENT AND DISPOSAL SYSTEM

OWNER:
TED GODFREY
JOYCE JASKULA
CERT. 14,736
LC PLAN 7300-5, LOT 44
AUGUST 2, 2018
NO SCALE

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