



Truro Board of Health

Tuesday July 18, 2023
Remote Meeting- 4:00 PM

Remote Meeting Access Instructions

This will be a remote meeting. Citizens in Truro can view the meeting on Channel 18 and on the web on the "Truro TV Channel 18" button found under "Helpful Links" on the homepage of the Town of Truro website. To view, click on the green "Watch" button in the upper right of the page. **To provide comment during the meeting, please call in toll free at 1-866-899-4679 and enter the following access code when prompted: 972-302-709; or access the meeting from your computer, tablet or smartphone. <https://global.gotomeeting.com/join/972302709>**

I. PUBLIC COMMENT Please note that the Commonwealth's Open Meeting Law limits any discussion by members of the Board of an issue raised to whether that issue should be placed on a future agenda

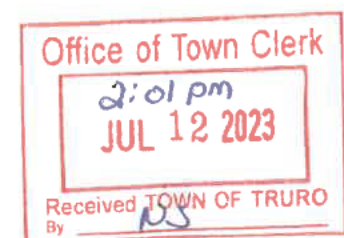
II. AGENDA ITEMS

1. **CWWMP Discussion with GHD/Scott Horsley**- This will be a presentation on the discussions with Provincetown regarding formalizing the Town's request to include Beach Point in Provincetown's sewer expansion
2. **Presentation by the AIDS Support Group of Cape Cod - Harm Reduction Services, NARCAN & Syringe Service Programming** This presentation of ASGCC's Harm Reduction Services, will include updates on Fentanyl in the Outer Cape, NARCAN, mobile outreach services, and information regarding syringe service programming and available funding from MA Department of Public Health.
3. **Request to appear before the Board of Health:** 82 Shore Rd, Salt Air Condominium, septic failure.
4. **Local Upgrade Approval/Variance Request:** 398 Shore Rd, Cottage Realty Trust
5. **Local Upgrade Approval/Variance Request:** 462 Shore Rd, Cousins Family Revocable Trust
6. **Local Variance Request:** 6 Toms Hill Path, Thomas D. France et al
7. **Local Variance Request:** 24 Cliff Rd, Blair & Paul Resika *(at the request of the applicant this item will be continued to the 8/1 2023 meeting)*
8. **Local Variance Request:** 5 Valentina Way, Estate of Marguerite Yannetty *(this item will be continued to the 8/1 2023 meeting)*
9. **Local Upgrade Approval/Variance Request:** 7 Amity Ln, Irene Selver *(this item will be continued to the 8/1 2023 meeting)*
10. **Local Upgrade Approval/Variance Request:** 38 Toms Hill Rd, Tina Ryman et al *(this item will be continued to the 8/1 2023 meeting)*
11. **Water Resources Update**
 - a. **Stormwater Regulations**

IV. MINUTES

V. REPORTS

1. Report of the Chair
2. Health Agent's Report





Truro Comprehensive Wastewater Management Plan

Board of Health Meeting, July 18 2023

Welcome

Truro Comprehensive Wastewater Management Plan

- Wastewater and Nitrogen Management Planning Project focusing on Truro's three coastal estuaries
 - Provincetown Harbor (shared with Provincetown)
 - Pamet River
 - Wellfleet Harbor (shared with Wellfleet Harbor)

WATERSHED MVP
MULTI-VARIANT PLANNER

Dashboard

The Cape Cod Commission developed the WatershedMVP application for professionals, municipal officials and community members in order to assist in creating the most cost-effective and efficient solutions to Cape Cod's wastewater problem.

The application is an informational resource intended to provide regional estimates for planning purposes. WatershedMVP is an initiative of the Cape Cod Commission's Strategic Information Office (SIO). To learn more about the WatershedMVP application and the Cape Cod Commission and its SIO, please [contact us](#).

You can select a watershed from the list below, or click on the map to get started.

Select an embayment

Get Started **Saved Scenarios**

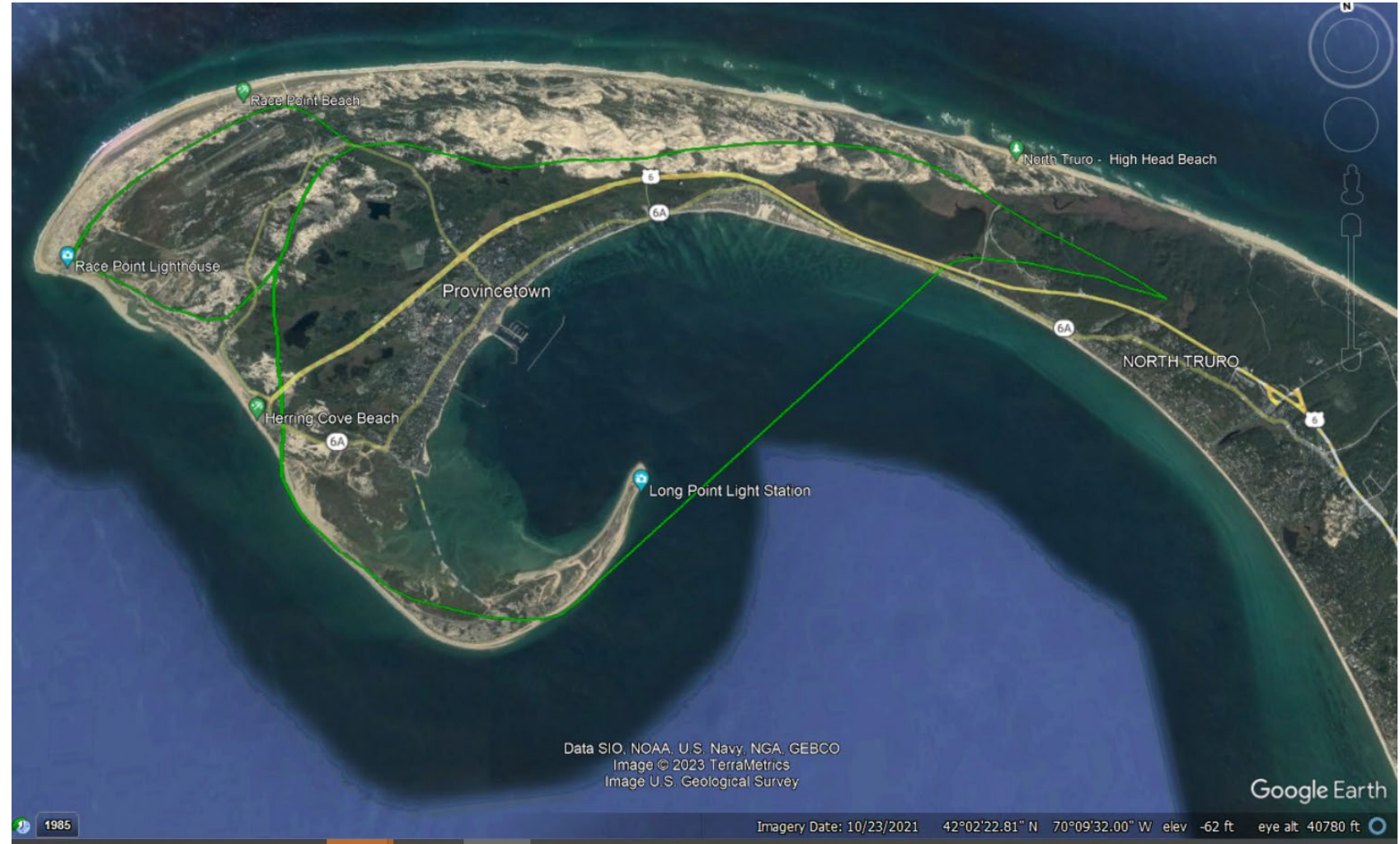
Provincetown Harbor

Pamet River

Wellfleet Harbor

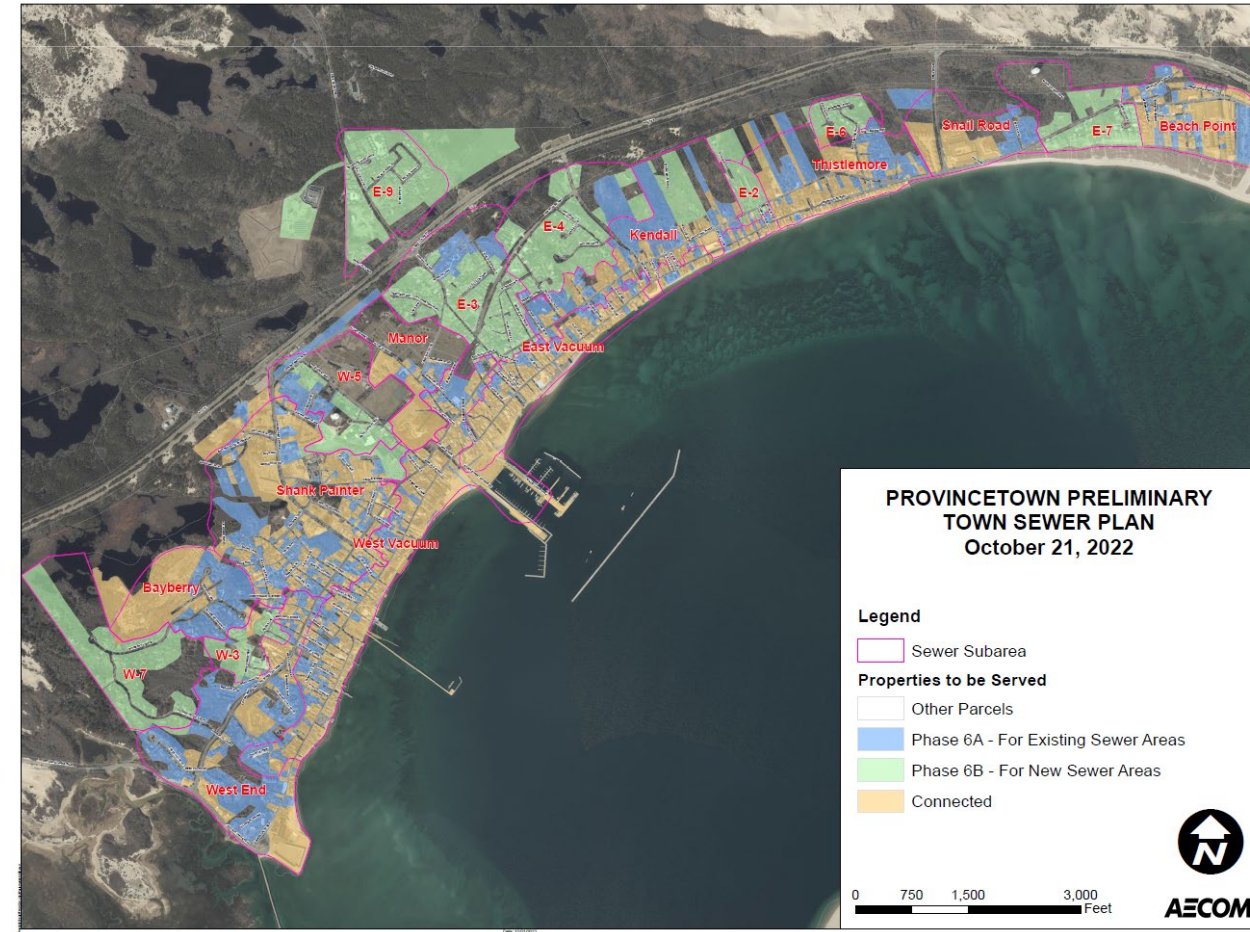
Provincetown Harbor

- Cape Cod Commission Watershed Report estimates:
 - 93% of watershed in Provincetown
 - 7% in Truro
- Beach Point
 - High density neighborhood
 - Cesspools



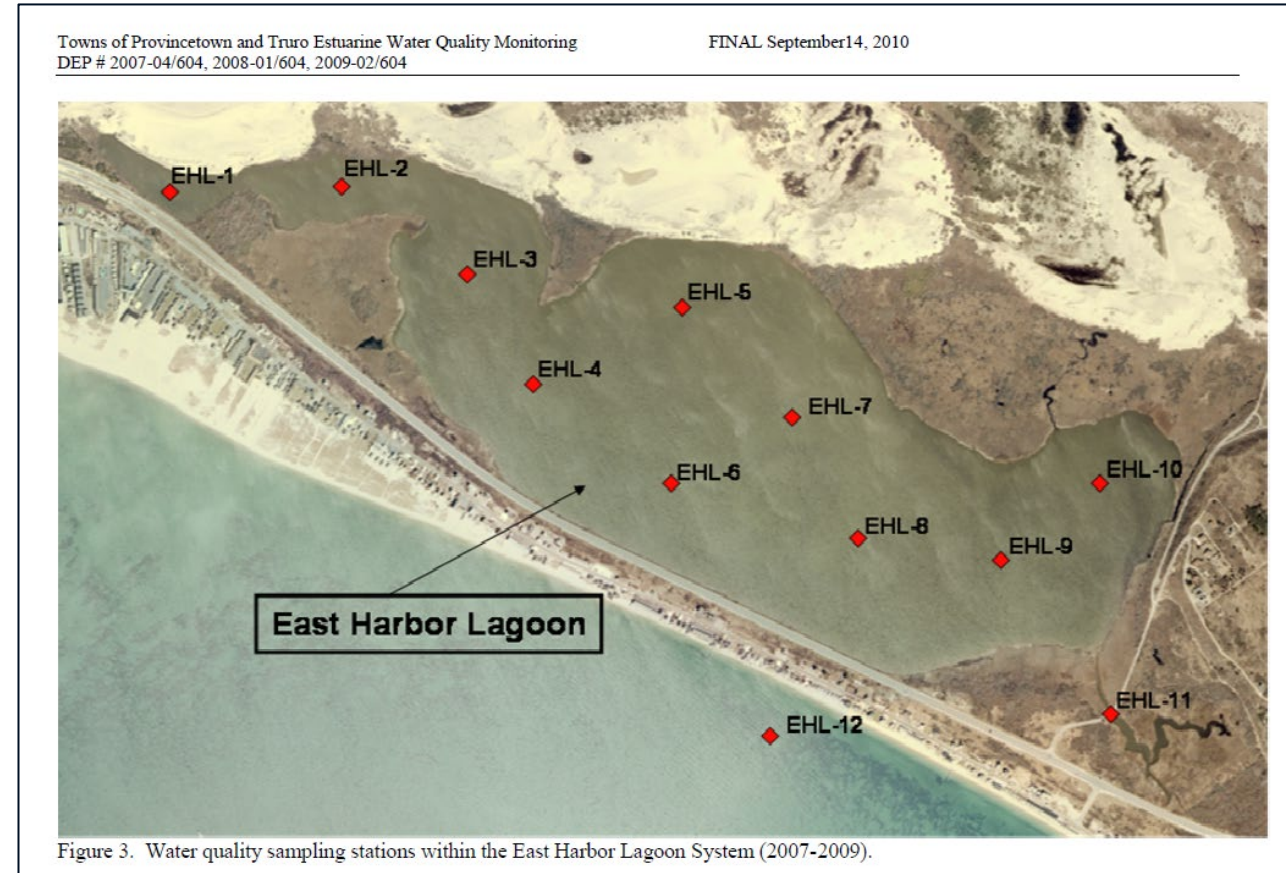
Coordination with Provincetown Planning

- Provincetown sewer expansion planned in two phases:
 - Phase 6A
 - Existing sewer areas
 - Tentative construction through 2026 (contingent on USDA funding schedule)
 - Phase 6B
 - New extensions
 - Tentative construction schedule 2026 – 2030 (contingent on USDA funding schedule)
 - Provincetown planning currently includes 150,000 gpd Title 5 flow allowance for Beach Point connection



Beach Point

- Study Area is 147 to 706 Shore Drive
 - Portion of Study Area in Provincetown Harbor watershed and East Harbor Lagoon embayment system
 - Portion of Study Area in Zone II
 - 2010 SMAST water quality monitoring report funded by 604(b) grant
 - Indicated that East Harbor Lagoon is tidally restricted with fair to poor water quality at all monitoring stations
 - Concluded that management of nutrient loads in East Harbor Lagoon would likely have significant positive effect on the habitat quality
- Sewering this area anticipated to remove 1,300 kg / year of nitrogen along Study Area



Next Steps – For Discussion

- Initiate flow allocation request through letter to Provincetown Town Manager



TOWN OF TRURO

P.O. Box 2030, Truro, MA 02666

Tel: 508-349-7004, Extension: 110 or 124 Fax: 508-349-5505

July 13, 2023

Alex Morse, Town Manager
Town of Provincetown
260 Commercial Street
Provincetown, MA 02657

Dear Town Manager Morse,

The Truro Board of Health and Select Board are pleased to submit this request for inclusion of wastewater flows from the Beach Point in North Truro to the Provincetown wastewater collection and treatment facility. Our water resources consultant Scott Horsley, and the environmental engineering firm GHD have been initiating conversations with Provincetown DPW Superintendent Jim Vincent to coordinate the wastewater management planning efforts between the two Towns.

At this time, we understand that the Provincetown wastewater planning process has been divided into two phases. The first phase (6A) will include expansion of existing sewer areas, and the second phase (6B) will address new extensions, including an allowance for Beach Point (as shown in the Provincetown Preliminary Sewer Plan, prepared by AECOM and dated October 21, 2022). The Town of Truro is aware that the timelines for the project phases depend on USDA funding schedules, and that the current estimated construction window for phase 6B is from 2026 through 2030.

Initial discussions have indicated a Title 5 allowance of 150,000 gpd for Truro has been incorporated into Provincetown's sewer planning process. We respectfully request that formal discussions be initiated on the terms and conditions for an intermunicipal agreement to formally reserve capacity for the Town of Truro.

With Thanks on behalf of the Truro Board of Health and Select Board,

Emily Beebe
Truro Health Agent

Darrin Tangeman
Truro Town Manager

[TOWN LETTERHEAD]

Kevin Cranston, MDiv
Director, Bureau of Infectious Disease
Massachusetts Department of Public Health
250 Washington Street, 3rd Floor
Boston, MA 02108

Subject: AIDS Support Group of Cape Cod

Dear Mr. Cranston,

On behalf of the [TOWN NAME] Board of Health I am writing to you regarding the AIDS Support Group of Cape Cod. On [DATE], the [TOWN NAME] Board of Health voted positively to support the syringe exchange program proposed by the AIDS Support Group of Cape Cod at their proposed location at [AGENCY LOCATION NEAREST THE TOWN].

The Board of Health supports the various AIDS Support Group of Cape Cod programs outlined in their prevention and screening proposal including screenings, overdose prevention education, syringe services, NARCAN distribution, health services and substance abuse referrals and treatment.

If you need anything further regarding this decision don't hesitate to contact me.

Sincerely,

[NAME OF HEALTH AGENT]

Health Agent – Town of [TOWN]

[TOWN NAME] Board of Health:

Board of Health member – Chairperson
Board of Health member
Board of Health member
Board of Health member
Board of Health member - (absent)

[LETTERHEAD FOOTER WITH CONTACT INFORMATION]

HEALTH DEPARTMENT
TOWN OF TRURO

JUN 23 2023

RECEIVED BY:

June 16, 2023

Town of Truro Health Department
P.O Box 2030
Truro, MA 02666

Dear Members of the Board of Health

We (Trustees at SaltAir Cottages) are in receipt of an order to upgrade the septic system at the SaltAir Cottages, 82 Shore Road in Truro. We respectfully request a hearing in front of the Board of Health to discuss this order. Please contact Arnie Greenfield, on of the Trustees at SaltAir Cottages, to schedule the hearing. Contact information for Arnie:



Best regards,
Salt Air Trustees
Arnie Greenfield
Mike Ciulla
Lori Casinghino

Attachment: Upgrade order

A handwritten signature in blue ink, appearing to read "Arnie Greenfield".

JUN 23 2023

RECEIVED BY:



TOWN OF TRURO

HEALTH DEPARTMENT

P.O. Box 2030, Truro MA 02666

Tel: 508-349-7004 Fax: 508-349-5508

June 13, 2023

CERTIFIED MAIL: 7021-2720-0000-1526-3226
AND BY FIRST CLASS MAIL

Salt Air Cottage Condominiums
c/o Charles & Beverly Arnott, Trustees
P.O. Box 688
No. Truro, MA 02652

c/o RKM Property Management
74 Shankpainter Rd.
Provincetown, MA 02657

RE: 82 Shore Rd, Salt Air Condominiums (36/27) ORDER TO CORRECT: UPGRADE SEPTIC SYSTEM

Dear Salt Air Condominium owners:

The Septic System Inspection Report submitted by Christopher Lucy on 6/7/2023, indicated that the leach pit for system #1 is in failure, and system #2 "needs further evaluation". System #2 has a leach pit located within the Zone-1 protective radius of the property's non-community Public Water supply well. Please note that Section 6, Article 3.2 of the Truro Board of Health Regulations specify that in a case of failure with more than one system both systems must be upgraded when the total wastewater design flow for the property exceeds 2000 gallons per day.

You are hereby ordered to complete the upgrade of your septic systems within **6 months (180) days** receipt of this letter. This process includes the submission of the following documents:

- (1) Site and sewage plan prepared by a registered professional engineer or registered sanitarian for the upgrade of the system in conformance with Title 5.
- (2) Application for the installation of the system submitted by a licensed installer.
- (3) A set of stamped floor plans **or** you can schedule a walk through so that our department can confirm the bedroom count of the existing dwelling.

Prior to the installation of a new system, the existing system must be pumped as needed in order to prevent it from overflowing.

Please contact our office upon receipt of this notice (a period not to exceed 10 days from receipt) to discuss the requirements and your timeframe for implementing these requirements.

Should you be aggrieved by this order, you have a right to request a hearing before the Board of Health. A request must be received in writing to the Office of the Board of Health within seven (7) days receipt of this order.

Sincerely,
Emily Beebe, Health Agent

Emily Beebe

From: Arnie Greenfield [REDACTED]
Sent: Tuesday, July 11, 2023 11:30 AM
To: Emily Beebe [REDACTED]
Subject: Re: Notes from today's meeting
Attachments: 3F29057_Salt Air Cottage, TC, TN, NH3, 06-29-23, FINAL.pdf

Hi Emily,

Per our conversation, the results from the most recent well water test are attached. They show no coliform, Nitrogen < 2, and Ammonia not detectable.

To follow on from our conversation of June 22nd.

1. I will be attending the Board of Health meeting on July 18th. Per our conversation, based on these results I plan to ask that we don't have to upgrade System 2 at this time .
2. We have hired Glen Harrington to design new systems for our site. He will design systems to replace both System 1 and System 2. This ensures that when we do upgrade System 2, the design for System 1 will work in concert with System 2.
3. Glen is onsite today supervising a perc test as the first step in the new system design.
4. We will be looking into an Aquifund loan for this work.

Any questions, please let me know. If not, see you next Tuesday.

Arnie

On Fri, Jun 23, 2023 at 9:57 AM Arnie Greenfield [REDACTED] wrote:

Hello Emily. Just an update - we have retained Glen Harrington to design the new systems. He will be scheduling a perc test as the first stage of the work.

Best,
Arnie

On Thu, Jun 22, 2023 at 9:27 PM Arnie Greenfield [REDACTED] wrote:

Hi Emily,

It was nice speaking with you today. Here are the notes and action items I captured from our meeting. If you see anything that is not correct, please let me know.

- We first discussed the Order to correct - Upgrade Septic System letter. At a minimum, we will need to upgrade System 1, given the leach pit has failed. Emily stated that we need to hire an engineer to design a system that complies with the current Title V requirements, which have changed since the original system was installed. Her recommendation was to design new systems for both System 1 and 2, even though we might wind up only replacing System 1. This would allow the System 1 design to accommodate a new System 2 if it were needed in the future.
- Emily noted that White Water's most recent report detailed no bacteria and limited nitrogen (2.2). She said that if we measured the ammonia in a new test and the sum of ammonia and nitrogen was less than 5 (plus there was no bacteria found), there's a good chance the Board of Health would not require us to upgrade System 2. The next board meeting is July 18th - we should have the results by then.

- Arnie noted that the site only has 16 bedrooms instead of the 19 noted in the 1982 site survey. This would result in less than the 2000 gallons per day threshold, and may have an effect on the evaluation of System 2. Arnie and Emily decided to table this until we see the results of White Water's report. If needed, the Board of Health can do a site walkaround to verify the number of bedrooms.
- Arnie noted that he has sent a certified letter requesting a hearing in front of the board. This hearing would occur at the next board meeting.
- Arnie asked about the possibility of connecting to the public water and public sewer. Emily noted that there has been no discussion of availability of both and will not be for at least a year.

My action items:

1. Arnie to request that White Water perform a well water test, testing for bacteria, nitrogen and ammonia. **This has been requested today.**
2. Arnie to hire Glen Harrington to create a system design. **I called Glen and left a message today.**

Please let me know when I am confirmed to speak at the next board meeting.

Best,
Arnie Greenfield
Trustee
SaltAir Cottages

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

BENCHMARK
TOP OF CONCRETE BOUND
EL=15.4± (ASSUMED DATUM)

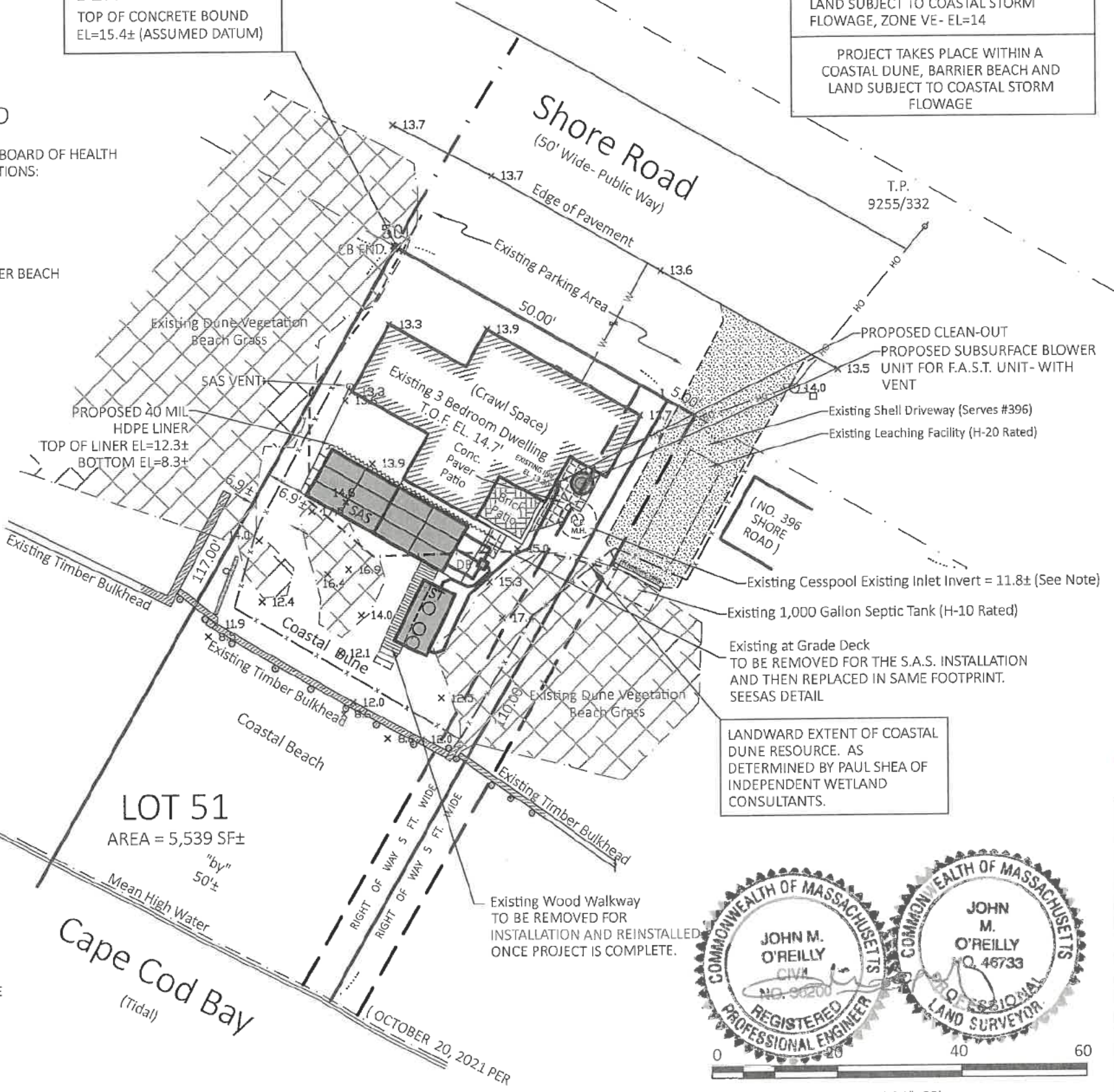
WETLAND RESOURCES:
COASTAL BEACH- 310 CMR 10.27
COASTAL DUNE- 310 CMR 10.28
BARRIER BEACH- 310 CMR 10.29
LAND SUBJECT TO COASTAL STORM FLOWAGE, ZONE VE- EL=14

PROJECT TAKES PLACE WITHIN A COASTAL DUNE, BARRIER BEACH AND LAND SUBJECT TO COASTAL STORM FLOWAGE

VARIANCES REQUESTED

STATE AND LOCAL:
MA STATE SANITARY CODE AND THE TOWN OF TRURO BOARD OF HEALTH REGULATIONS SEWAGE DISPOSAL REGULATIONS:

- 310 CMR 15.211 MIN. SETBACK DISTANCES:
- 1.) SAS NOT 10 FEET TO PROPERTY LINE:
6.5 FEET PROVIDED; 3.5 FOOT VARIANCE REQUESTED
 - 2.) SAS NOT 150 FEET FROM WETLAND RESOURCE:
SAS IS PROPOSED WITHIN COASTAL DUNE AND BARRIER BEACH
 - 3.) SAS NOT 10 FEET TO FOUNDATION (CRAWL SPACE):
1.5 FEET PROVIDED; 8.5 FOOT VARIANCE REQUESTED
 - 4.) SEPTIC TANK NOT 100 FEET FROM WETLAND RESOURCE:
SEPTIC TANK IS PROPOSED WITHIN COASTAL DUNE AND BARRIER BEACH.



- CONSERVATION NOTES:**
- 1.) THE LIMIT OF WORK SHALL BE LOCATED AS SHOWN ON THE PLAN VIEW. THE WORK LIMIT SHALL BE A ROW OF 9-INCH STRAW WATTLES, STAKED IN PLACE. WORK LIMIT SHALL BE INSTALLED PRIOR TO ANY EXCAVATION.
 - 2.) INSTALLER SHALL PLACE STEEL PLATES ON THE ABUTTING DRIVEWAY TO PROTECT THE DRIVEWAY AND EXISTING H-20 LEACHING FACILITY FOR 396 SHORE RD.
 - 3.) ONCE ACCESS AND LIMIT OF WORK LINE IS INSTALLED, THE INSTALLER SHALL CAREFULLY EXCAVATE THE LARGE CLUMPS OF BEACH GRASS, ROOTS AND ALL AND STOCKPILE THE GRASS ON THE ROAD SIDE OF THE DWELLING, FOR PLANTING AFTER THE SYSTEM IS INSTALLED.
 - 4.) UPON THE COMPLETION OF THE INSTALLATION, THE AREA SHALL BE GRADED TO MINIMIZE ANY SHARP BREAKS IN SLOPE AND TO CLOSELY MATCH THE CURRENT TOPOGRAPHY IN THE PROJECT AREA (PRE-CONSTRUCTION).
 - 5.) THE STOCKPILED GRASS SHALL BE REINSTALLED. AREA TO BE IRRIGATED TO ALLOW THE GRASSES TO REESTABLISH.
 - 6.) ADDITIONAL BEACH GRASS SHALL BE ADDED AS NEEDED. NEW BEACH GRASS SHALL BE PLANTED ON A 12-INCH MATRIX.
 - 7.) THE WOOD DECK ATTACHED TO THE COTTAGE SHALL BE REPAIRED AS NEEDED ONCE INSTALLATION IS COMPLETED. FOOTPRINT OF DECK SHALL NOT CHANGE.

HEALTH DEPARTMENT
TOWN OF TRURO
JUL 12 2023
RECEIVED BY:



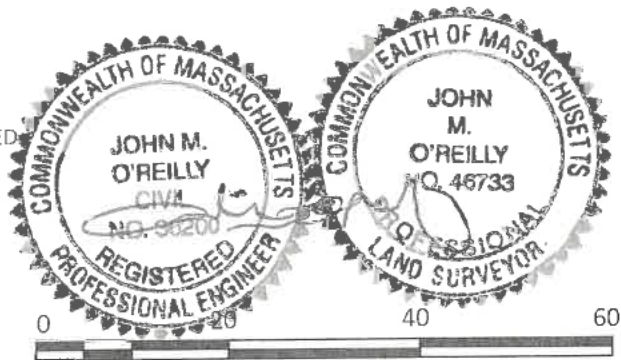
PLAN BOOK 482
DEED BOOK 16139
ASSESSORS' MAP 10

PAGE 43
PAGE 1
PARCEL 23

LEGEND

— 32	EXISTING CONTOUR
— 32	PROPOSED CONTOUR
x 12.34	EXISTING SPOT GRADE
24x5	PROPOSED SPOT GRADE
— W	WATER SERVICE LINE
— OH	OVERHEAD UTILITY SERVICE
— E	ELECTRIC / COMM. SERVICE LINE
— G	GAS SERVICE LINE
TP	TEST HOLE / BORING LOCATION
ST	SEPTIC TANK
DB	DISTRIBUTION BOX
SAS	SOIL ABSORPTION SYSTEM
Reserve	RESERVED FOR FUTURE
U	UTILITY POLE
C	CATCH BASIN
F	FIRE HYDRANT
W	WELL
DM	DRAINAGE MANHOLE
■	CONCRETE BOUND, FOUND
— x	LIMIT OF WORK
—	FENCE
—	EDGE OF CLEARING

SHEET 1 OF 2



G:\AAJobs\9436.Powers\DWG\9436.Site Plan.dwg

REVISED 7-5-2023: REVISED LOCATION OF THE SEWAGE AS REQUESTED BY THE BOARD OF HEALTH. ADJUSTED DESIGN AND DETAILS ACCORDINGLY.

Cottage Realty Trust
603 Sugar Mill Road, Greer, SC 29650

SEWAGE DISPOSAL SYSTEM SITE PLAN
398 SHORE ROAD, TRURO, MA

J.M. O'REILLY & ASSOCIATES, INC.
Professional Engineering & Land Surveying Services

1573 Main Street - Route 6A
P.O. Box 1773
(508)898-8801 Office Brewster, MA 02831 (508)898-8802 Fax

DATE:	SCALE:	BY:	CHECK:	JOB NUMBER:
5-12-2023	As Noted	jmo	JMO	JMO-9436

GENERAL NOTES:

- A.) NEITHER DRIVEWAYS NOR PARKING AREAS ARE ALLOWED OVER SEPTIC SYSTEM UNLESS H-20 COMPONENTS ARE USED.
- B.) THE DESIGNER WILL NOT BE RESPONSIBLE FOR THE SYSTEM AS DESIGNED UNLESS CONSTRUCTED AS SHOWN. ANY CHANGES SHALL BE APPROVED IN WRITING.
- C.) CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCEMENT OF WORK.

CONSTRUCTION NOTES:

- 1.) ALL CONSTRUCTION SHALL CONFORM TO THE STATE ENVIRONMENTAL CODE, TITLE 5, AND THE REQUIREMENTS OF THE LOCAL BOARD OF HEALTH.
- 2.) SEPTIC TANK(S), GREASE TRAP(S), DOSING CHAMBER(S) AND DISTRIBUTION BOX(ES) SHALL BE SET ON A LEVEL STABLE BASE WHICH HAS BEEN MECHANICALLY COMPACTED, OR ON A 6 INCH CRUSHED STONE BASE.
- 3.) SEPTIC TANK(S) SHALL MEET ASTM STANDARD C1127-93 AND SHALL HAVE AT LEAST THREE 20" DIAMETER MANHOLES. THE MINIMUM DEPTH FROM THE BOTTOM OF THE SEPTIC TANK TO THE FLOW LINE SHALL BE 48".
- 4.) SCHEDULE 40 PVC INLET AND OUTLET TEES SHALL EXTEND A MINIMUM OF 6" ABOVE THE FLOW LINE OF THE SEPTIC TANK AND SHALL BE INSTALLED ON THE CENTERLINE OF THE TANK DIRECTLY UNDER THE CLEANOUT MANHOLE.
- 5.) RAISE COVERS OF THE SEPTIC TANK AND DISTRIBUTION BOX WITH PRECAST CONCRETE WATER TIGHT RISERS OVER INLET AND OUTLET TEES TO WITHIN 6" OF FINISH GRADE, OR AS APPROVED BY THE LOCAL BOARD OF HEALTH AGENT.
- 6.) PIPING SHALL CONSIST OF 4" SCHEDULE 40 PVC OR EQUIVALENT. PIPE SHALL BE LAID ON A MINIMUM CONTINUOUS GRADE OF NOT LESS THAN 1%.
- 7.) DISTRIBUTION LINES FOR SOIL ABSORPTION SYSTEM (AS REQUIRED) SHALL BE 4" DIAMETER SCHEDULE 40 PVC LAID AT 0.005 FT/FT. LINE SHALL BE CAPPED AT END OR AS NOTED.
- 8.) OUTLET PIPES FROM DISTRIBUTION BOX SHALL REMAIN LEVEL FOR AT LEAST 2' BEFORE PITCHING TO SOIL ABSORPTION SYSTEM. WATER TEST DISTRIBUTION BOX TO ENSURE EVEN DISTRIBUTION.
- 9.) DISTRIBUTION BOX SHALL HAVE A MINIMUM SUMP OF 6" MEASURED BELOW THE OUTLET INVERT.
- 10.) BASE AGGREGATE FOR THE LEACHING FACILITY SHALL CONSIST OF 3/4" TO 1-1/2" DOUBLE WASHED NATIVE STONE FREE OF IRON, FINES AND DUST AND SHALL BE INSTALLED BELOW THE CROWN OF THE DISTRIBUTION LINE TO THE BOTTOM OF THE SOIL ABSORPTION SYSTEM. BASE AGGREGATE SHALL BE COVERED WITH A LAYER OF FILTER FABRIC OR APPROVED EQUIVALENT.
- 11.) VENT SOIL ABSORPTION SYSTEM WHEN DISTRIBUTION LINES EXCEED 50 FEET; WHEN LOCATED EITHER IN WHOLE OR IN PART UNDER DRIVEWAYS, PARKING AREAS, TURNING AREAS OR OTHER IMPERVIOUS MATERIAL; OR WHEN PRESSURE DOSED.
- 12.) SOIL ABSORPTION SYSTEM SHALL BE COVERED WITH A MINIMUM OF 9" OF CLEAN MEDIUM SAND (EXCLUDING TOPSOIL).
- 13.) FINISH GRADE SHALL BE A MAXIMUM OF 36" OVER THE TOP OF ALL SYSTEM COMPONENTS, INCLUDING THE SEPTIC TANK, DISTRIBUTION BOX, DOSING CHAMBER AND SOIL ABSORPTION SYSTEM. SEPTIC TANKS SHALL HAVE A MINIMUM COVER OF 9".
- 14.) FROM THE DATE OF INSTALLATION OF THE SOIL ABSORPTION SYSTEM UNTIL RECEIPT OF A CERTIFICATE OF COMPLIANCE, THE PERIMETER OF THE SOIL ABSORPTION SYSTEM SHALL BE STAKED AND FLAGGED TO PREVENT THE USE OF SUCH AREA FOR ALL ACTIVITIES THAT MIGHT DAMAGE THE SYSTEM.
- 15.) SUBSURFACE COMPONENTS OF A SYSTEM SHALL NOT BE BACKFILLED OR OTHERWISE CONCEALED FROM VIEW UNTIL A FINAL INSPECTION HAS BEEN CONDUCTED BY THE APPROVING AUTHORITY AND PERMISSION HAS BEEN GRANTED BY THE APPROVING AUTHORITY TO BACKFILL THE SYSTEM. THE DESIGNER SHALL INSPECT THE CONSTRUCTION AFTER THE INITIAL EXCAVATION, PRIOR TO BACKFILLING, AND DURING BACKFILLING. IN ADDITION, THE FINAL INSPECTION OF THE SYSTEM SHALL BE CONDUCTED BY THE APPROVING AUTHORITY, THE SYSTEM INSTALLER AND DESIGNER PRIOR TO THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE PURSUANT TO 310 CMR 15.021(3). ANY COMPONENT OF THE SYSTEM WHICH HAS BEEN COVERED WITHOUT SUCH PERMISSION SHALL BE UNCOVERED UPON REQUEST OF THE APPROVING AUTHORITY OR THE DEPARTMENT.
- 16.) INSTALLER SHALL VERIFY INVERT ELEVATIONS PRIOR TO INSTALLATION OF ANY SEPTIC SYSTEM COMPONENTS.
- 17.) EXISTING CESSPOOL TO BE PUMPED DRY, FILLED WITH CLEAN SAND, AND ABANDONED IN PLACE.
- 18.) ALL 4" PVC CLEANOUTS SHALL BE WITHIN 3" OF FINISH GRADE. CLEANOUTS SHALL BE MARKED WITH A PIECE OF #5 REBAR FOR FUTURE LOCATION.
- 19.) SITE ACCESS:
THE ACCESS FOR THE INSTALLATION OF THE PROPOSED SEWAGE SYSTEM SHALL BE THROUGH THE EXISTING SHELL DRIVEWAY FOR 396 SHORE ROAD.
INSTALLER SHALL PLACE STEEL PLATES OVER THE SHELL DRIVE AND LEACHING FACILITY (H-20 RATED SYSTEM), PRIOR TO STARTING THE INSTALLATION.
DRIVEWAY SHALL BE RETURNED TO PRE-CONSTRUCTION CONDITION (SHELL).
- 20.) ACCESS COVERS:
DUE TO THE EXISTING CONDITIONS, THE ACCESS MANHOLE COVERS SHALL BE CAST IRON AND GASKETED. ALL PVC ACCESS PORTS SHALL BE SCREW CAPPED.

SYSTEM DESIGN CALCULATIONS:

SEWAGE DESIGN FLOW:
3 BEDROOM DWELLING @ 110 GPD = 330 GPD

LEACHING CAPACITY REQUIRED:
3 BEDROOMS (MAX.) @ 110 GPD = 330 GPD REQUIRED

SEPTIC TANK CAPACITY REQUIRED:
DAILY FLOW = 330 GPD @ 200% = 660 GAL.

SEPTIC TANK CAPACITY PROVIDED:
1500 GALLON SEPTIC TANK WITH F.A.S.T. TREATMENT UNIT 0.5

LEACHING CAPACITY PROVIDED:
A ARC 36-HC PROVIDES 4.73 SF/LF AND AT 5 FEET LONG PROVIDES 23.65 GPD/UNIT
Vt=[12 UNITS AT 23.65 GPD/UNIT] x 0.74 GPD/SF = 210.0 GPD (36% REDUCTION)
280 GPD < 330 GPD REQUIRED- 35 % REDUCTION ALLOWED WITH F.A.S.T. UNIT

NOTE: A GARBAGE DISPOSAL IS NOT PERMITTED WITH THIS DESIGN.

INSTALL:
ONE (1)- 1500 GALLON SEPTIC TANK WITH MICRO F.A.S.T. 0.5 TREATMENT UNIT.
ONE (1)- 3 OUTLET DISTRIBUTION BOX (H-20 RATED)
TWELVE (12)- ARC 36-HC CHAMBER BY INFILTRATOR- **NO GRAVEL**

SOIL TEST LOGS:

TEST HOLE 1: EL=13.5±

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0-13"	C	Loamy Sand	10YR4/6	NONE	
13-154"	C2	Coarse Sand	10YR7/2	NONE	Ground Water @ 154" BG

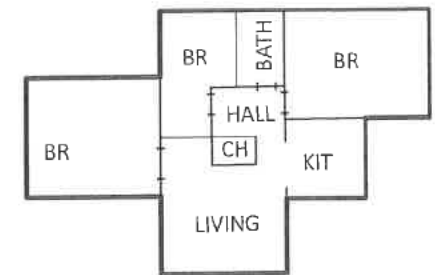
TEST HOLE 2: EL=13.5±

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0-10"	C	Loamy Sand	10YR4/6	NONE	
10-154"	C2	Coarse Sand	10YR7/2	NONE	PERC @ 34"; dRY IN 3:20 Ground Water @ 154" BG

DATE OF TESTING: 3/10/23
PERCOLATION RATE: LESS THAN 2 MIN/INCH IN C2 LAYERS.
WITNESSED BY: ROBERT REEDY, P.E., J.M. O'REILLY & ASSOCIATES, INC.
AROZANA DAVIS, HEALTH AGENT, TRURO HEALTH DEPARTMENT
WATER ENCOUNTERED @ 154"

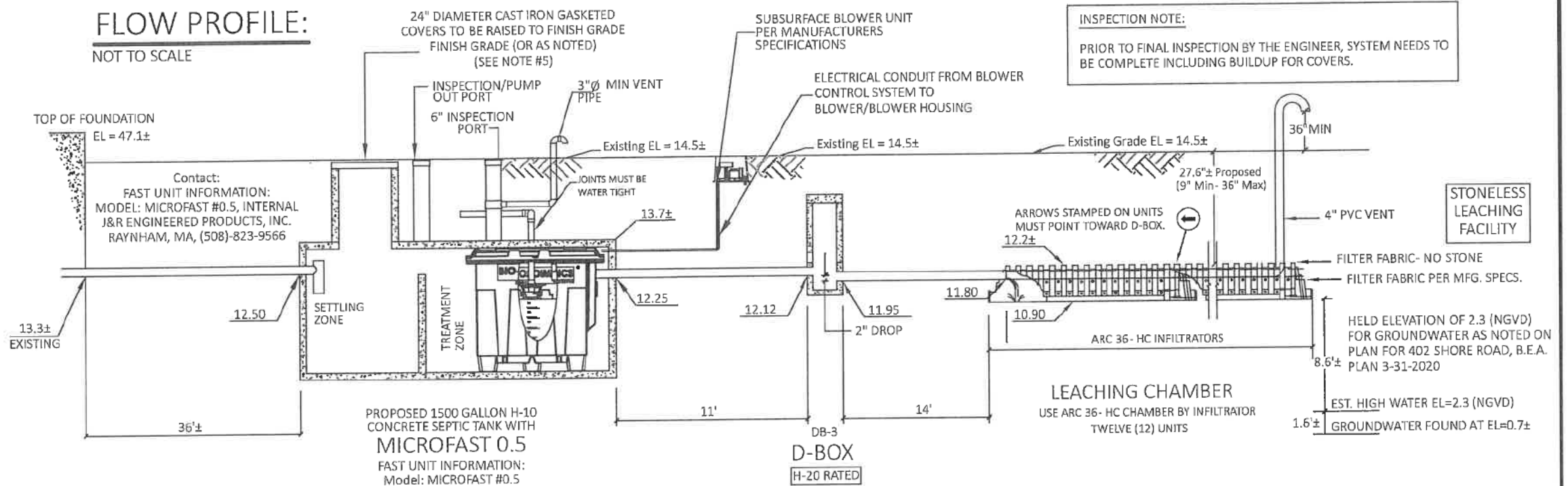
FLOOR PLAN

NOT TO SCALE



FLOW PROFILE:

NOT TO SCALE



INSPECTION NOTE:
PRIOR TO FINAL INSPECTION BY THE ENGINEER, SYSTEM NEEDS TO BE COMPLETE INCLUDING BUILDUP FOR COVERS.

STONELESS LEACHING FACILITY

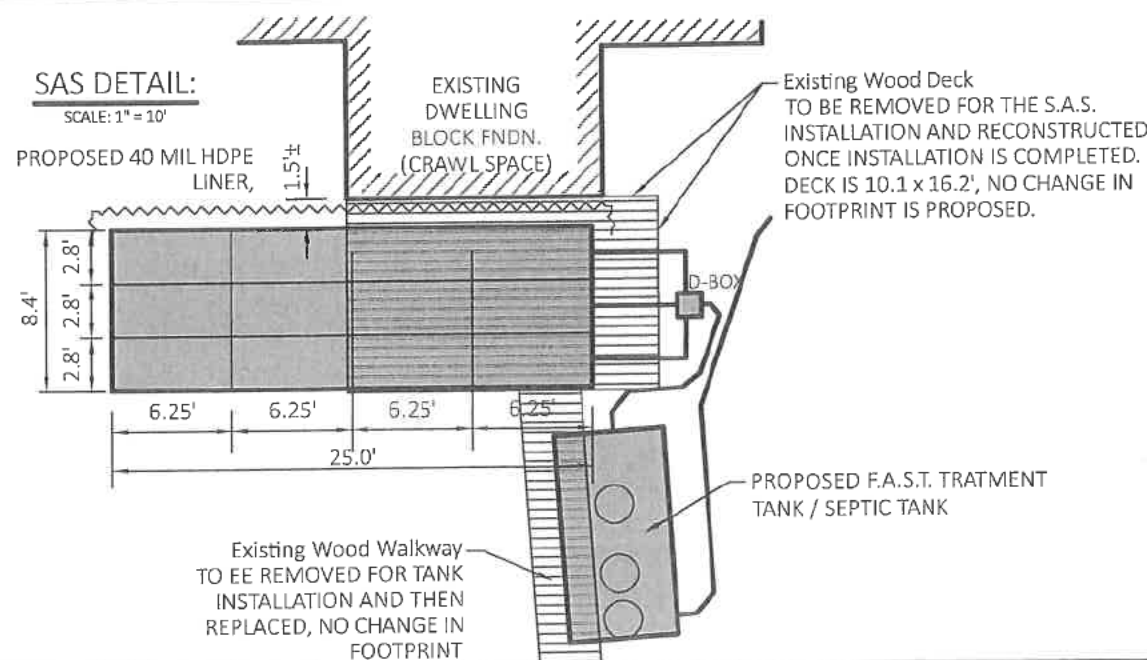
FILTER FABRIC- NO STONE
FILTER FABRIC PER MFG. SPECS.

HELD ELEVATION OF 2.3 (NGVD) FOR GROUNDWATER AS NOTED ON PLAN FOR 402 SHORE ROAD, B.E.A. PLAN 3-31-2020

EST. HIGH WATER EL=2.3 (NGVD)
GROUNDWATER FOUND AT EL=0.7±

SAS DETAIL:

SCALE: 1" = 10'



SHEET 2 OF 2

REVISED 7-5-2023: REVISED LOCATION OF THE SEWAGE AS REQUESTED BY THE BOARD OF HEALTH. ADJUSTED DESIGN AND DETAILS ACCORDINGLY.

Cottage Realty Trust
603 Sugar Mill Road, Greer, SC 29650

SEWAGE DISPOSAL SYSTEM SITE PLAN
398 SHORE ROAD, TRURO, MA

J.M. O'REILLY & ASSOCIATES, INC.
Professional Engineering & Land Surveying Services

1573 Main Street - Route 6A
P.O. Box 1773
Brewster, MA 02631 (508)896-8801 Fax (508)896-8802

DATE:	SCALE:	BY:	CHECK:	JOB NUMBER:
5-12-2023	As Noted	jmo	JMO	JMO-9436

Fee: \$75.00



TRURO HEALTH & CONSERVATION DEPARTMENT
24 Town Hall Road, Truro 02666

APPLICATION FOR BOARD OF HEALTH VARIANCES

Date: 7/24/23

Property Owner's Name: Cousins Family Revocable Trust; c/o Carol Knox, Trustee

Mailing Address: 5569 Compton Lane Eldersburg, MD 21784

Address of Property: 462 Shore Road

Map and Parcel Number: Map # 8 Parcel # 31

Design Engineer/Sanitarian Stephanie J. Sequin, P.E.

Firm/Company Name: Ryder & Wilcox, Inc. Phone #: 508-255-8312

Address: Box 439 S. Orleans, MA 02662

Please check type of variance requested:

Title 5 Variance Request: Section See attached

Board of Health Variance Request: Section/Article See attached

Carol Knox
Signature (Representative)

7/24/2023
Date

Stephanie J. Sequin
Signature (Property Owner)

6/28/23

HEALTH DEPARTMENT
TOWN OF TRURO

JUN 29 2023

RECEIVED BY:

Ryder & Wilcox

SURVEYING · ENGINEERING
HOME PLANNING & DESIGN

3 GIDDIAH HILL ROAD · P.O. BOX 439
SO. ORLEANS, MASSACHUSETTS 02662-0439
TEL: 508.255.8312 · FAX: 508.240.2306
EMAIL: info@ryder-wilcox.com

June 28, 2023

Truro Board of Health
24 Town Hall Road
Truro, MA 02666

Re: 462 Shore Road (Map 8, Parcel 31)

Dear Board Members,

On behalf of our clients, the Cousins Family Revocable Trust, please reserve time at your July 18th hearing to consider a request for variances from 310 CMR 15.00 The State Environmental Code Title 5 and the Truro Board of Health Regulations. The variances are being requested in order to allow the installation of a new Title 5 subsurface sewage disposal system (SDS) to serve the existing two-bedroom dwelling located at the above referenced property.

A new Title 5 SDS is proposed for the subject parcel. The parcel is located on a barrier beach within the Beach Point District of Truro and directly abuts Cape Cod Bay to the South. It also lies within Land Subject to Coastal Storm Flowage. A timber bulkhead creates a barrier between the developed portion of the lot and the beach. The system is being installed as required by the Truro Board of Health Regulations Section 6, Article 3, Part 1h which defines cesspools as failed systems and requires the installation and certification of an upgraded Title 5 system by December 31, 2023. The proposed system will also implement Innovative/Alternative Technology for Nitrogen reduction in order to improve the quality of effluent being discharged. The existing system, which is composed of a single cesspool and a drywell, will be pumped dry and filled with clean sand.

In order to optimize compliance with setbacks contained within both state and local regulations, the major components of the proposed system are located between the front of the existing buildings and the northern property boundary. Soil testing performed in this area showed clean sand from approximately 2' to 10.5' below grade; no groundwater was encountered. While groundwater was not encountered within the soil test holes dug by this office, it had been previously observed at elevation = 1.8 on a neighboring property. The resulting estimated maximum seasonal high groundwater is approximately elevation = 3.2. A low-profile soil absorption system (SAS) is proposed, along with the aforementioned placement of the major system components, in order to provide 5.1 feet of separation from groundwater. The limited suitable space for siting of the proposed SDS, in conjunction with the need to attain prescribed pipe slopes to ensure proper function of the system, necessitates the placement of the SAS deeper than 3 ft. below grade. Given the circumstances described above, the installation of the aforementioned system, as proposed, will provide an improvement to both public health and safety and the environment.

The following variances are requested:

310 CMR 15.00 The State Environmental Code Title 5

310 CMR 15.211(1)

- The proposed septic tank is to be 2.9 ft. from the northern property line (7.1 ft. variance).
- The proposed septic tank is to be 7 ft. from the existing foundation (3 ft. variance).
- The proposed SAS is to be 5 ft. from the northern and eastern property lines (5 ft. variances).
- The proposed SAS is to be 5 ft. from the existing foundation (15 ft. variance) and 6.6' from a garage slab (3.4' variance).
- The proposed septic tank is to be 4.3 ft. from the existing water service (5.7 ft. variance).
- The proposed soil absorption system is to be 6'+/- from an Abutter's water service (4' variance)

310 CMR 15.221(7)

- The top of the proposed SAS is to be greater than 3 ft. below finished grade (6" +/- variance).

Town of Truro Board of Health Regulations

Section 6, Article 9

- The proposed septic tank is to be 80 ft. from a coastal beach (20 ft. variance).
- The proposed SAS is to be 78 ft. from a coastal beach (72 ft. variance).
- The proposed septic tank is to be located within LSCSF and within a Barrier Beach (100' variances)
- The proposed soil absorption system is to be located within LSCSF and within a Barrier Beach (150' variances)

I have included seven (7) sets of the following: Application for Board of Health Variances, an engineered site plan, a Certified List of Abutters, the Abutter's Notice, floor plans, and a check for \$75.00. Please feel free to contact this office if you require any additional information.

Sincerely,



Stephanie J. Sequin, P.E.

cc: Cousins Family Revocable Trust, c/o Carol Knox
Job #12940

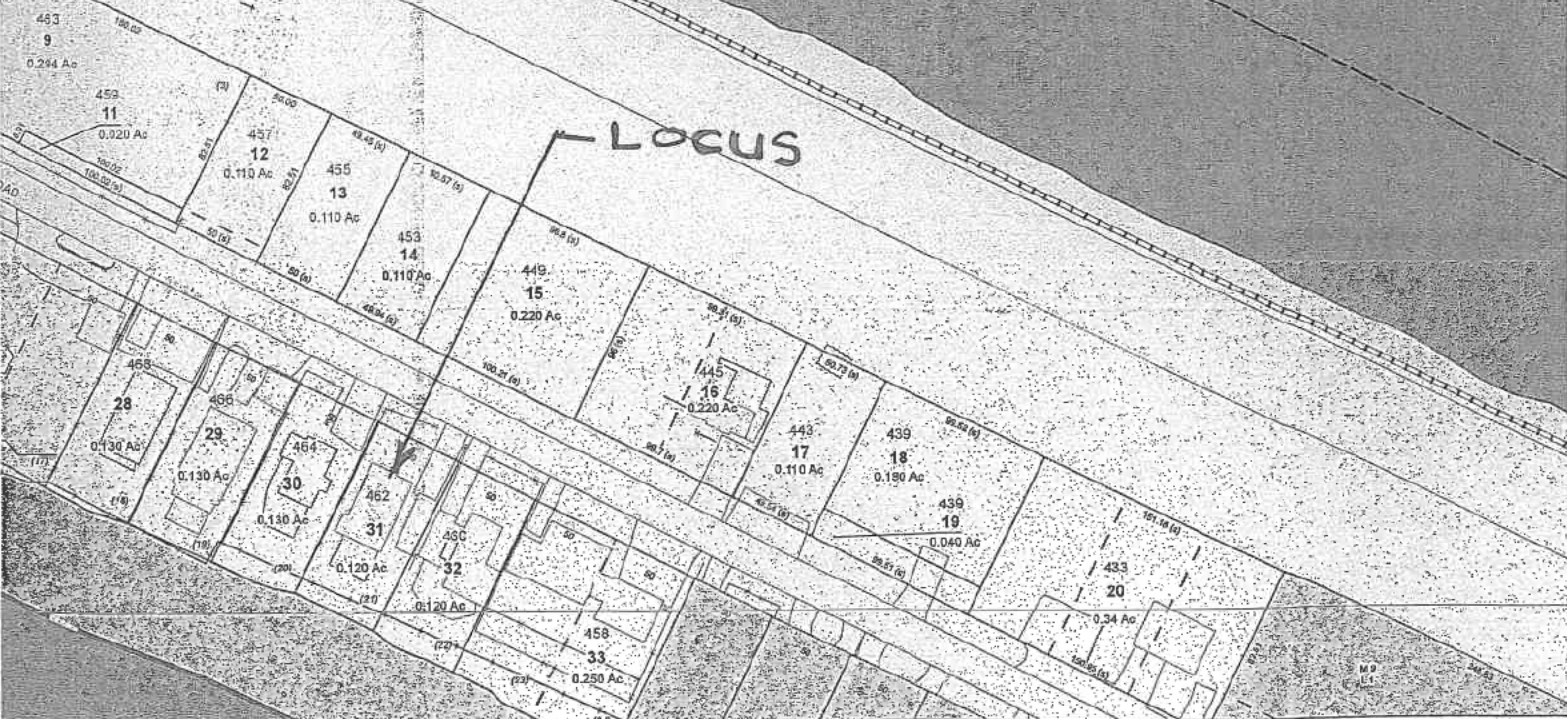
HEALTH DEPARTMENT
TOWN OF TRURO

JUN 29 2023

RECEIVED BY:

ROUTE 6 GRAND ARMY OF THE REPUBLIC HIGHWAY

LOCUS





CONVERSION SCALES



Feet	Meters
1	.3048
2	.6096
3	.9144
4	1.2192
5	1.5240
6	1.8288
7	2.1336
8	2.4384
9	2.7432
10	3.0480

HEALTH DEPARTMENT
TOWN OF TRURO

JUN 29 2023

RECEIVED BY:

4860
5'
4859
4858
(NORTH TRURO) 6968 II SE
NORTH TRURO 6 MI.
EASTHAM 18 MI.
NORTH TRURO 2.5 MI.
4855
2' 30"
4854

To convert feet to meters
multiply by .3048
To convert meters to feet
multiply by 3.2808

Ryder & Wilcox

SURVEYING · ENGINEERING
HOME PLANNING & DESIGN

3 GIDDIAH HILL ROAD · P.O. BOX 439
SO. ORLEANS, MASSACHUSETTS 02662-0439
TEL: 508.255.8312 FAX: 508.240.2306
EMAIL: info@ryder-wilcox.com

June 29, 2023

Re: Proposed septic system upgrade
462 Shore Road - Truro, Mass. (Assrs. Map 8 Pcl. 31)

Dear Abutter:

You are being notified pursuant to the State Environmental Code Title 5 and the Truro Board of Health Regulations that the Board of Health will hold a public hearing to hear requests for variances from applicable State and/or Local regulations. The variances are being requested to allow the installation of a sewage disposal system to replace an existing cesspool serving an existing dwelling.

A copy of the letter requesting a hearing is enclosed. Copies of the Site Plan will be on file with the Board of Health by July 7th and may be viewed prior to the public hearing to be held on July 18, 2023. Variance hearings begin at 4:30 P.M. The estimated time of the hearing for this project may be obtained by contacting the Health Department at [508-214-0920](tel:508-214-0920).

The meeting will be held remotely. The meeting can be viewed on Channel 18 and on the homepage of the Town of Truro website. Instructions for remote participation will be made available on the Town of Truro website, or by contacting the Health Department.

Sincerely,

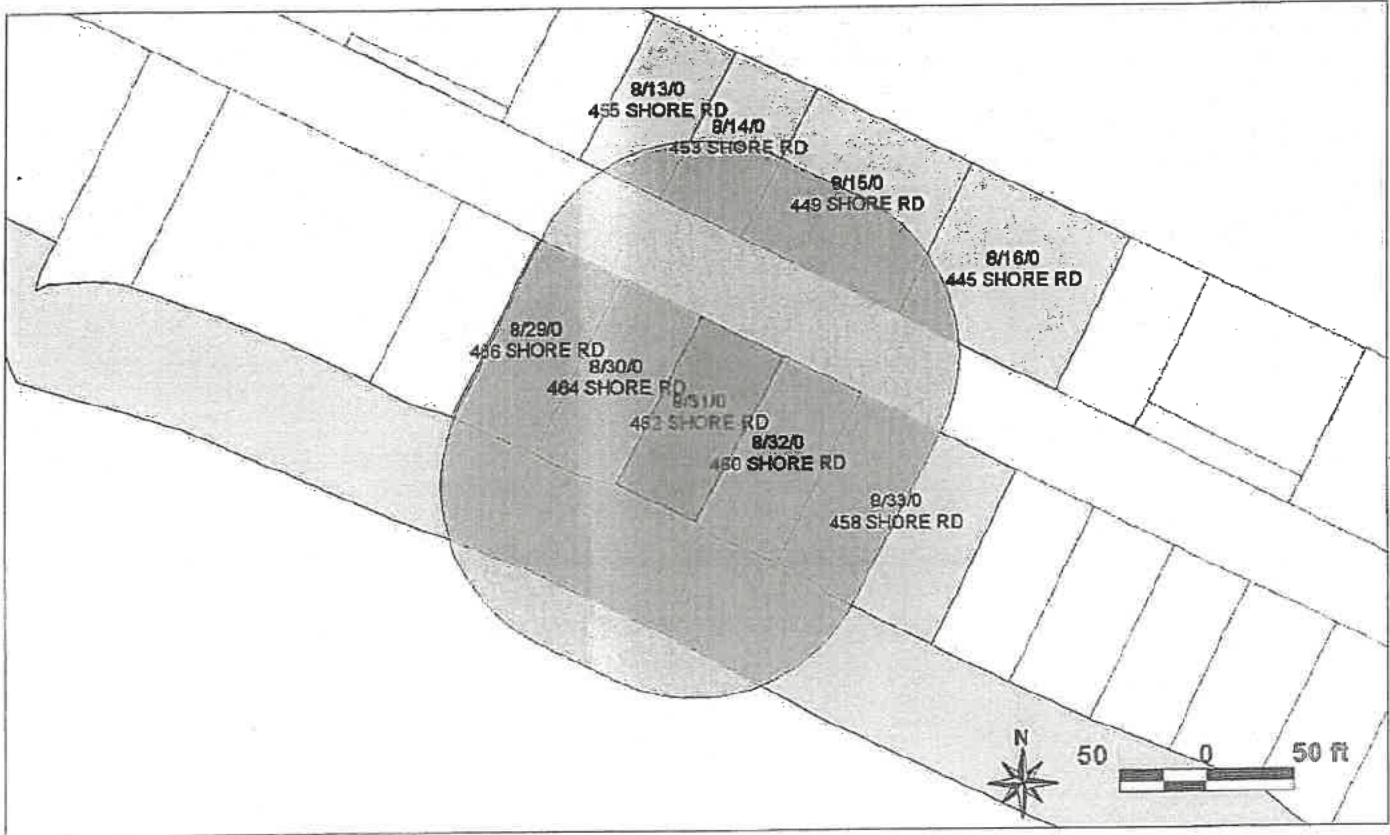


Stephanie J. Sequin, P. E.

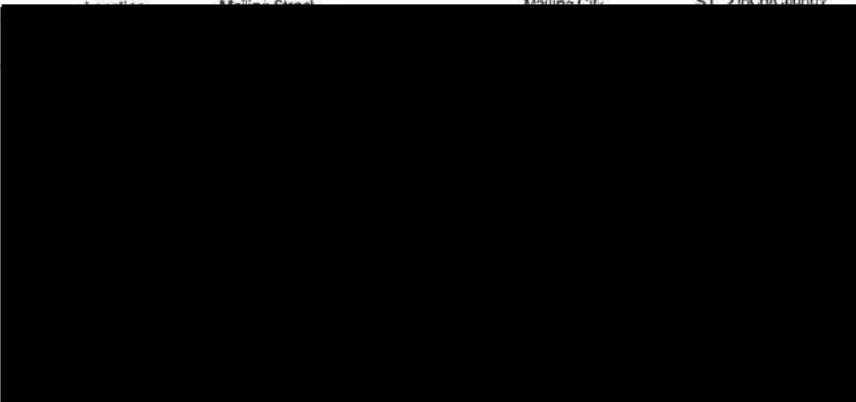
cc: Cousins Family Revocable Trust, c/o Carol Knox

12940

Abutters List Within 100 feet of Parcel 8/31/0



Key	Parcel ID	Owner
258	8-13-0-R	COLLINS ELEANOR
259	8-14-0-R	MURRAY DAVID S
260	8-15-0-R	COUSINS FAMILY REVOC TRUST TRS: COUSINS NORMAN A & MARILYN
261	8-16-0-R	TREE HOLDINGS 445 LLC RES AGT: ERIC SHAPIRO
274	8-29-0-R	COLLINS ELEANOR
275	8-30-0-R	MURRAY DAVID S
276	8-31-0-R	COUSINS FAMILY REVOC TRUST TRS: COUSINS MARILYN
277	8-32-0-R	LOVELAND LISA
278	8-33-0-R	TREE MANAGEMENT LLC RES AGT: ERIC D SHAPIRO



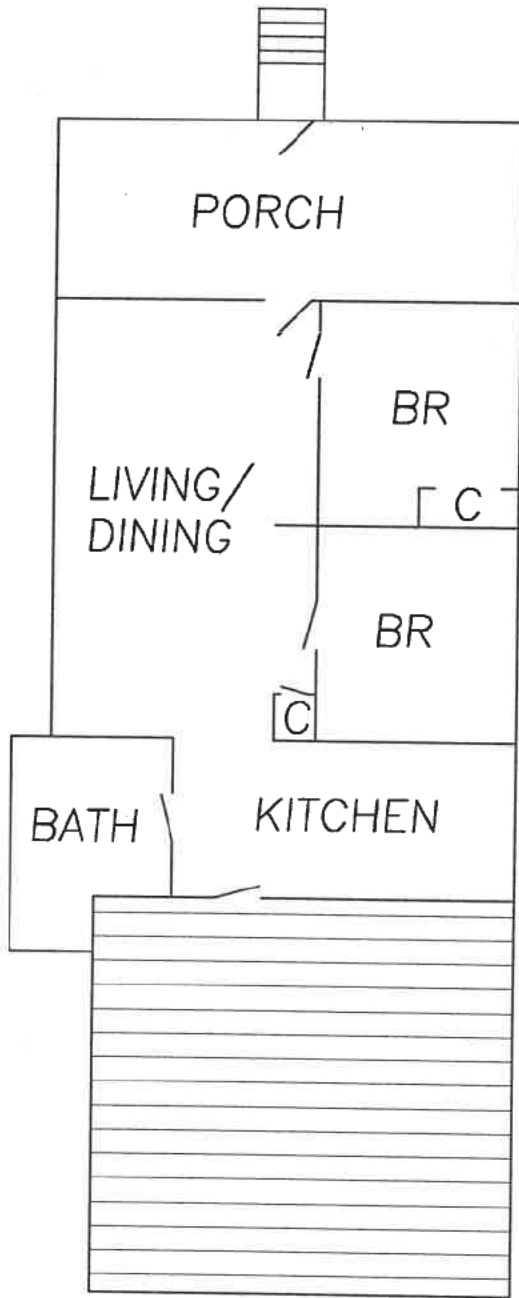
TOWN OF TRURO

JUN 29 2023

RECEIVED BY:

Handwritten signature: DW 5/25/2023

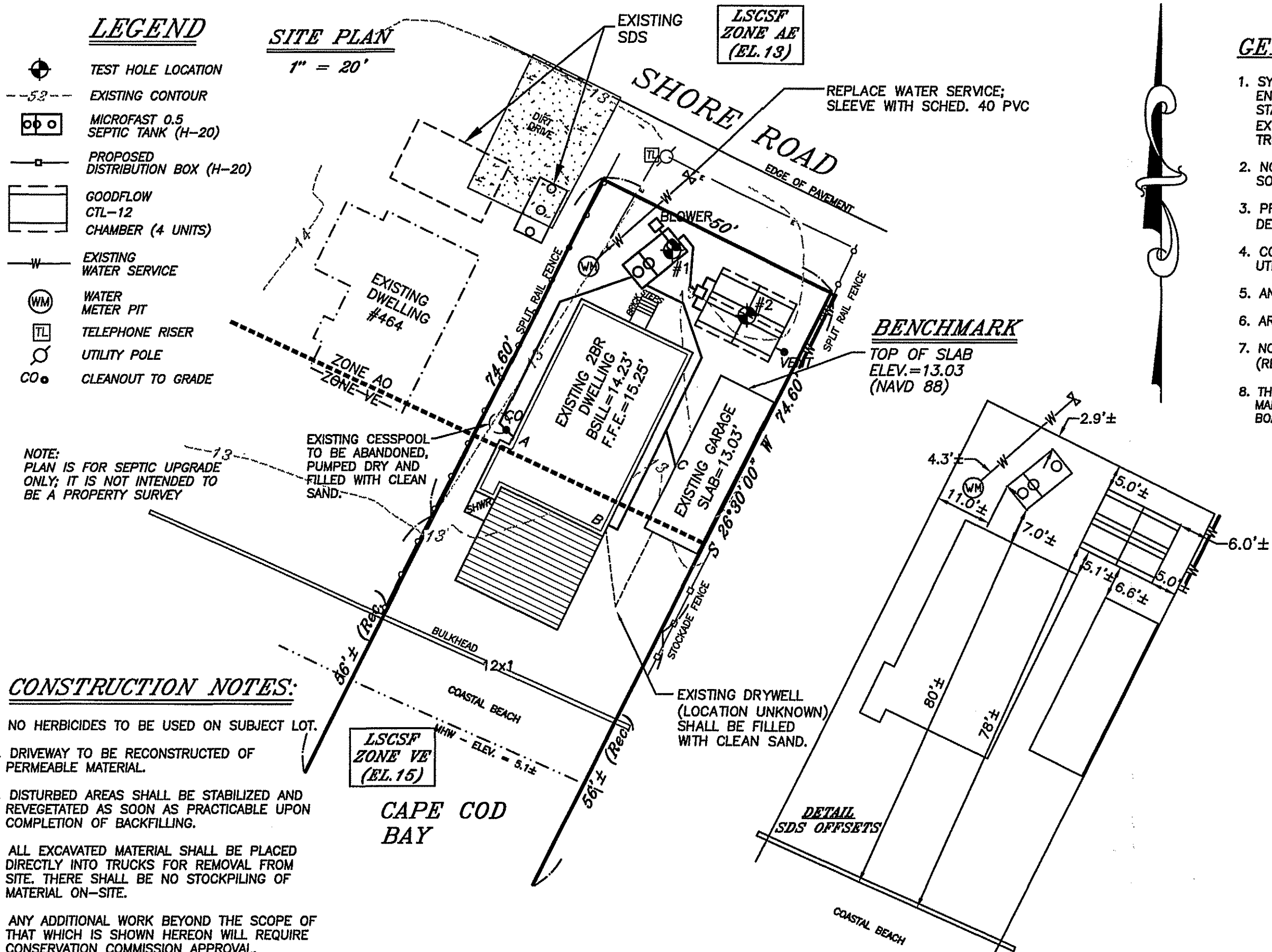
EXISTING DWELLING
462 SHORE ROAD



LEGEND

- ⊕ TEST HOLE LOCATION
- - - - - EXISTING CONTOUR
- ⊙ MICROFAST 0.5 SEPTIC TANK (H-20)
- PROPOSED DISTRIBUTION BOX (H-20)
- GOODFLOW CTL-12 CHAMBER (4 UNITS)
- EXISTING WATER SERVICE
- ⊕ WATER METER PIT
- ⊕ TELEPHONE RISER
- ⊕ UTILITY POLE
- ⊙ CLEANOUT TO GRADE

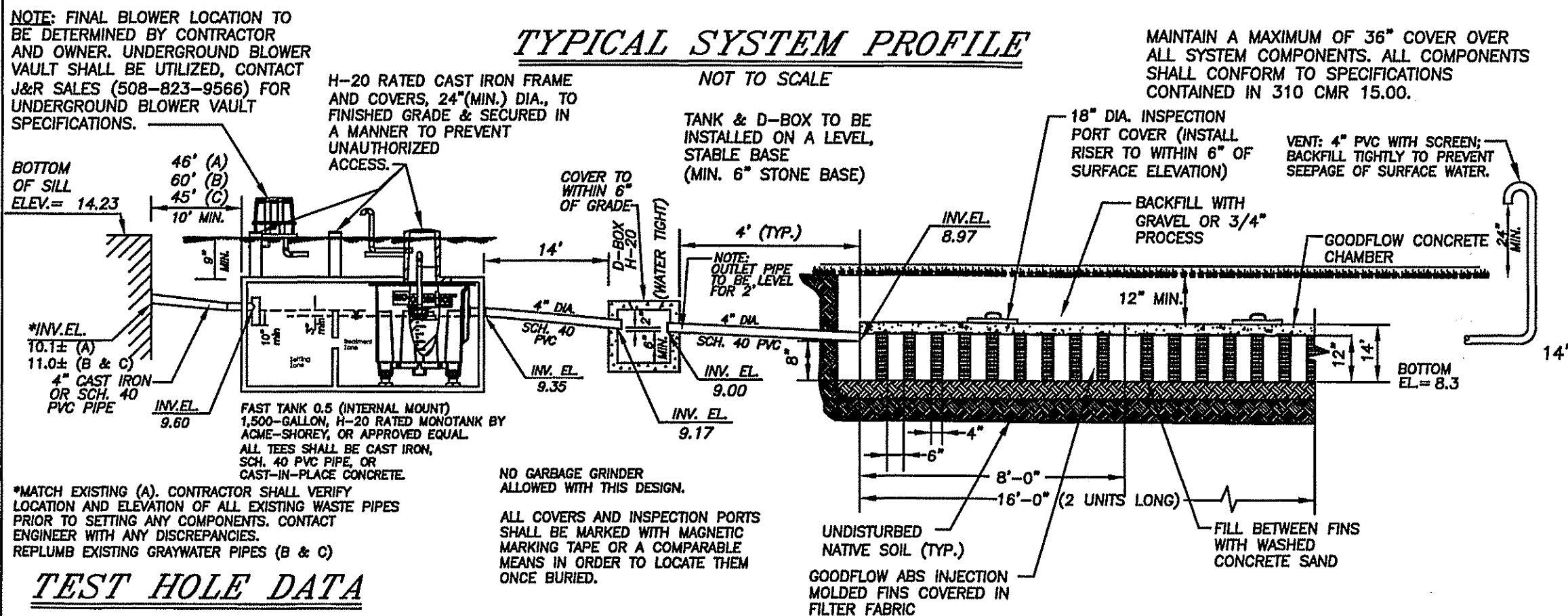
SITE PLAN
1" = 20'



CONSTRUCTION NOTES:

1. NO HERBICIDES TO BE USED ON SUBJECT LOT.
2. DRIVEWAY TO BE RECONSTRUCTED OF PERMEABLE MATERIAL.
3. DISTURBED AREAS SHALL BE STABILIZED AND REVEGETATED AS SOON AS PRACTICABLE UPON COMPLETION OF BACKFILLING.
4. ALL EXCAVATED MATERIAL SHALL BE PLACED DIRECTLY INTO TRUCKS FOR REMOVAL FROM SITE. THERE SHALL BE NO STOCKPILING OF MATERIAL ON-SITE.
5. ANY ADDITIONAL WORK BEYOND THE SCOPE OF THAT WHICH IS SHOWN HEREON WILL REQUIRE CONSERVATION COMMISSION APPROVAL.

TYPICAL SYSTEM PROFILE
NOT TO SCALE



DESIGN DATA

NUMBER OF BEDROOMS: 2
 ESTIMATED DAILY EFFLUENT: 220 GPD
 EFFECTIVE LEACHING AREA AS PROPOSED:
 FIELD: 32 LF X 10.57 SF/LF = 338.2 SF
 LEACHING CAPACITY AS PROPOSED:
 (EFFLUENT LOADING RATE = 0.74 GPD/SF)
 FIELD: 338.2 SF x 0.74 = 250.3 GPD
TOTAL = 250 GPD

TEST HOLE DATA

DATE OF TEST HOLES: 3/31/2022
 NO WATER ENCOUNTERED
 INSP. BY: D. QUINN (R&W), AROZANA DAVIS (HEALTH DEPT.)

No.1			
DEPTH (IN.)	SOIL HORIZON	SOIL TEXTURE	ELEVATION (FT.)
0 - 24	-	FILL	13.2 - 11.2
24 - 120	C	MEDIUM TO COARSE SAND	11.2 - 3.2

No.2			
DEPTH (IN.)	SOIL HORIZON	SOIL TEXTURE	ELEVATION (FT.)
0 - 24	-	FILL	13.1 - 11.1
24 - 124	C	MEDIUM TO COARSE SAND	11.1 - 2.8

TOP OF PERC AT 28" (C-LAYER) <2MIN./IN.

GENERAL NOTES:

1. SYSTEM IS DESIGNED IN ACCORDANCE WITH "COMMONWEALTH OF MASS., DEPT. OF ENVIRONMENTAL PROTECTION, 310 CMR 15.00; THE STATE ENVIRONMENTAL CODE, TITLE 5: STANDARD REQUIREMENTS FOR THE SITING, CONSTRUCTION, INSPECTION, UPGRADE AND EXPANSION OF ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS" AND THE TOWN OF TRURO REGULATIONS, EXCEPT WHERE NOTED.
2. NO WELLS OR WATER SUPPLIES ARE KNOWN TO EXIST WITHIN 100 FEET OF THE PROPOSED SOIL ABSORPTION SYSTEM.
3. PRIOR TO BACKFILLING COMPLETED SYSTEM, NOTIFY THE ENGINEER AND THE HEALTH DEPARTMENT FOR INSPECTION. PROVIDE 24 HOURS (MIN.) NOTICE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
5. ANY CHANGES TO THIS PLAN MUST BE APPROVED BY THE BOARD OF HEALTH.
6. AREA SERVED BY TOWN WATER.
7. NO RESERVE AREA IS PROVIDED. A REPLACEMENT SYSTEM SHALL BE INSTALLED IN PLACE (REFERENCE DEP POLICY DATED 1/3/96).
8. THROUGHOUT ITS LIFE THE MICROFAST SYSTEM (GENERAL USE) SHALL BE UNDER AN OPERATION AND MAINTENANCE AGREEMENT IN ACCORDANCE WITH THE CONDITIONS OF MASS. DEP AND THE TRURO BOARD OF HEALTH.

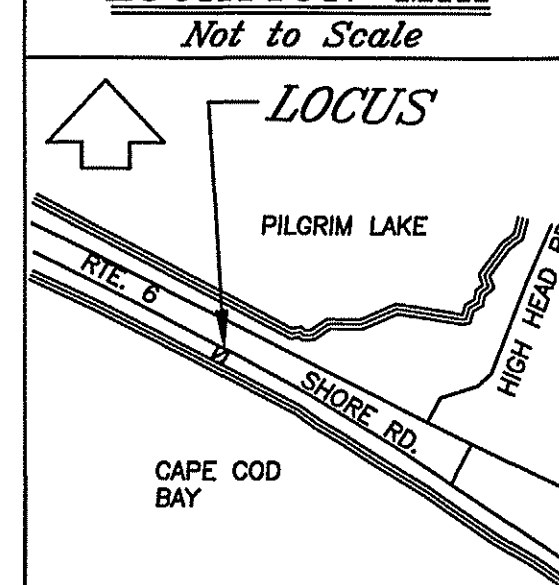
LOCAL UPGRADE APPROVAL FROM 310 CMR 15.00 IS REQUIRED TO ALLOW:

1. PROPOSED SEPTIC TANK LOCATED 2.9' FROM NORTHERN PROPERTY LINE (7.1' VARIANCE).
2. PROPOSED SEPTIC TANK LOCATED 7' FROM FOUNDATION (3' VARIANCE).
3. PROPOSED SAS LOCATED 5' FROM NORTHERN AND EASTERN PROPERTY LINES (5' VARIANCE).
4. PROPOSED SAS LOCATED 5.1' FROM FOUNDATION (14.9' VARIANCE) AND 6.6' FROM GARAGE SLAB (3.4' VARIANCE).
5. PROPOSED SEPTIC TANK LOCATED 4.3' FROM WATER SERVICE (5.7' VARIANCE).
6. PROPOSED SAS LOCATED 6'± FROM ABUTTERS WATER SERVICE (4' VARIANCE).
7. PROPOSED SAS LOCATED MORE THAN 3' BELOW GRADE (6'± VARIANCE).

VARIANCES FROM TRURO BOARD OF HEALTH REGULATIONS ARE REQUIRED TO ALLOW:

1. PROPOSED SEPTIC TANK LOCATED 80' FROM COASTAL BEACH (20' VARIANCE FROM SECTION VI, ARTICLE 9).
2. PROPOSED SAS LOCATED 78' FROM COASTAL BEACH (72' VARIANCE FROM SECTION VI, ARTICLE 9).
3. PROPOSED SEPTIC TANK LOCATED WITHIN LSCSF AND BARRIER BEACH (100' VARIANCE FROM SECTION VI, ARTICLE 9)
4. PROPOSED SAS LOCATED WITHIN LSCSF AND BARRIER BEACH (150' VARIANCE FROM SECTION VI, ARTICLE 9)

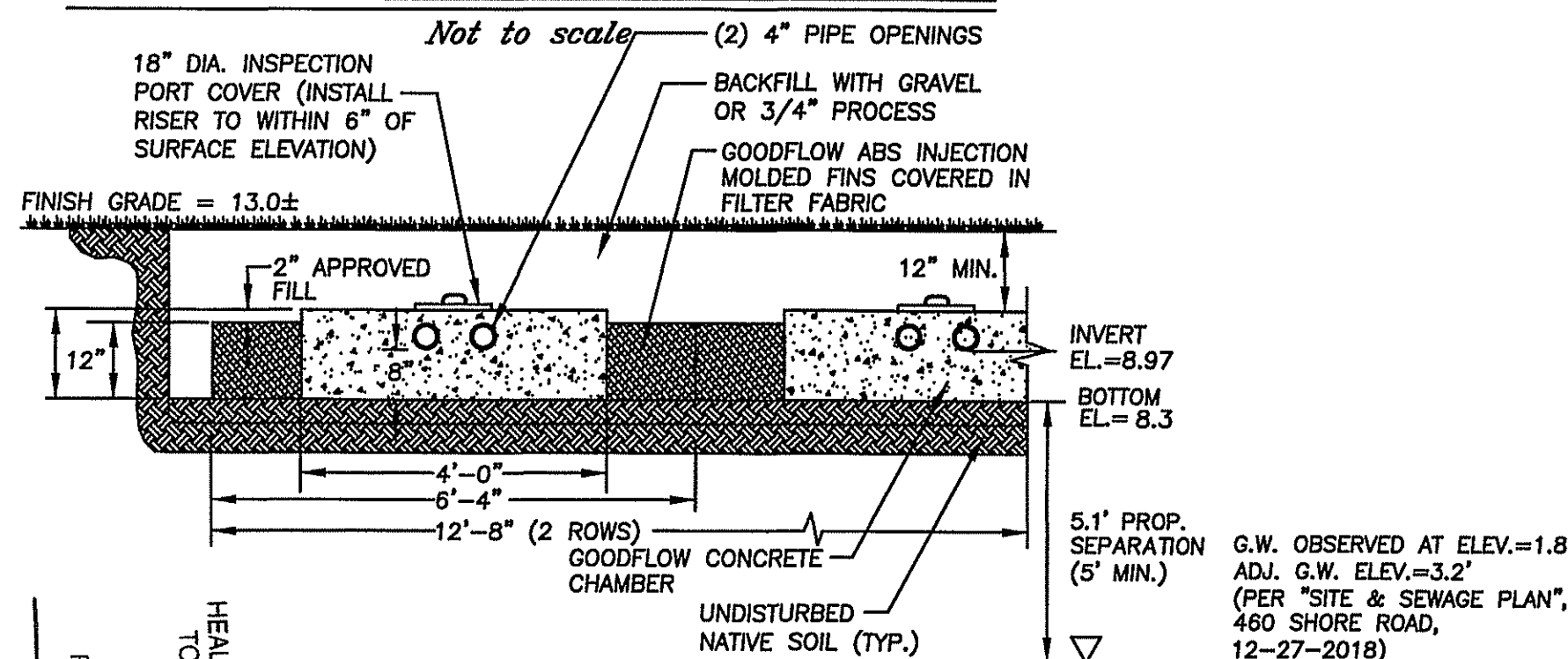
LOCATION MAP
Not to Scale



REFERENCE

ASSR'S MAP 8, PCL. 31
 PL. BK. 33, PG. 127-F2
 UNRECORDED PLAN PREPARED FOR PROCTOR AND MILDRED MURRAY NOVEMBER 1946 BY W.G. SLADE

GOODFLOW CTL-12 CHAMBER DETAIL
Not to scale



HEALTH DEPARTMENT
 TOWN OF TRURO
 RECEIVED BY:
 JUN 9 2023



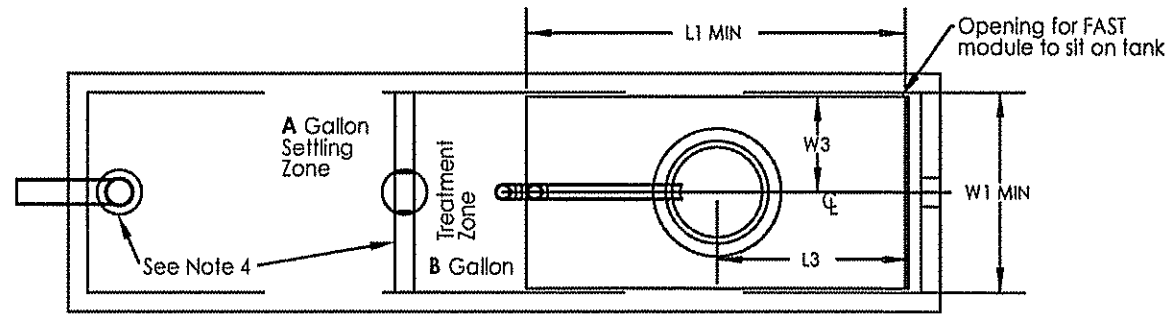
Stephanie J. Secuin
 6/9/23

PROPOSED ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

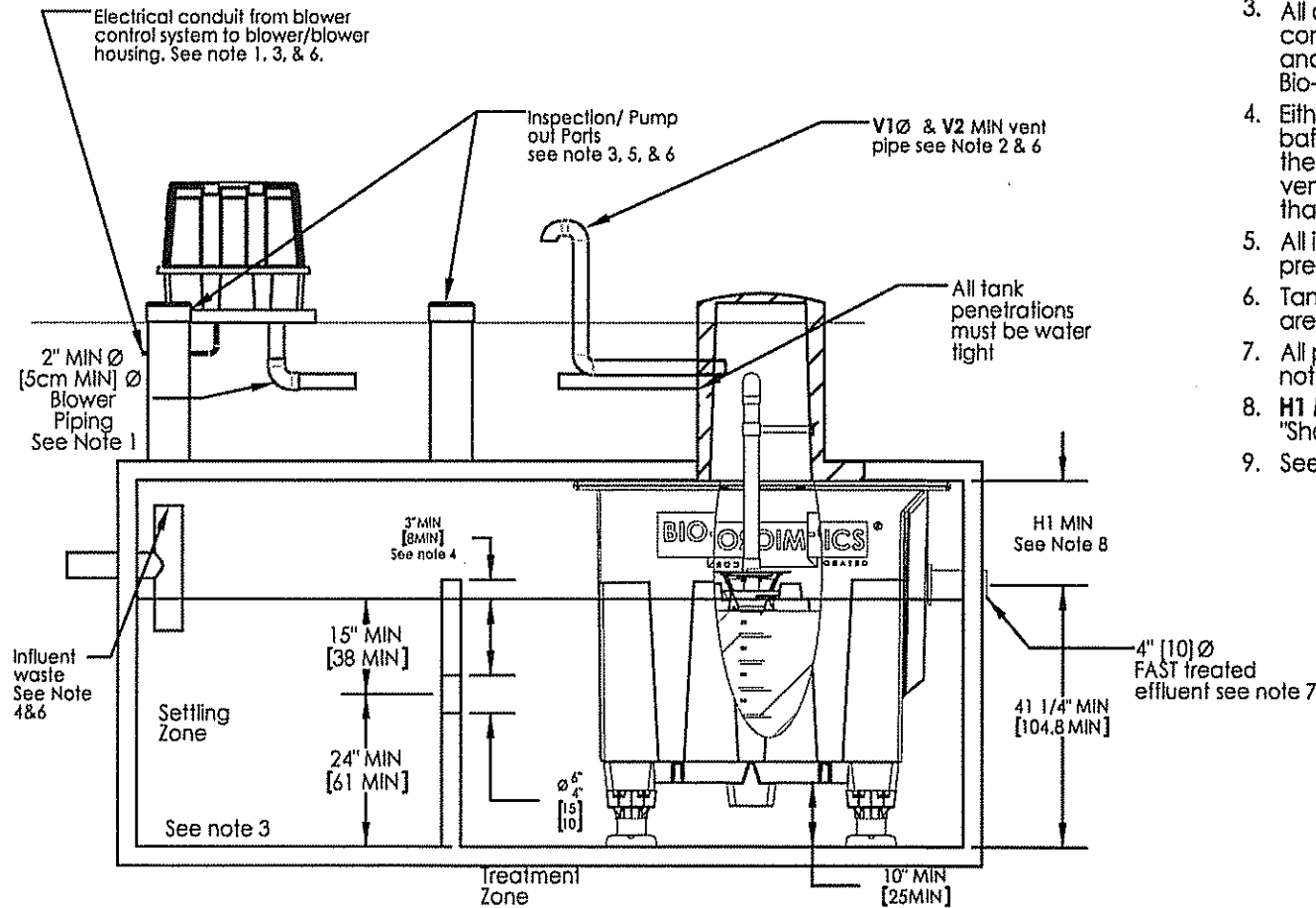
Prepared for: Cousins Family Revocable Trust
 Location: 462 Shore Road - Truro, MA

Ryder & Wilcox, Inc., P.E. & P.L.S.
 3 Giddiah Hill Rd.
 P.O. Box 439
 So. Orleans, MA, 02662
 Tel. (508) 255-8312
 Fax. (508) 240-2306

Scale: 1" = 20'
 Drawn by - SMM
 Date - June 9, 2023



- NOTES**
- Blower piping to FAST® may not exceed 100 FT [30.5m] total length and use 4 elbows maximum. For distances greater than 100 FT [30.5m] - consult factory. Blower must be located above flood/standing water levels on a concrete base.
 - Vent to be located above finish grade or higher to avoid infiltration. Cap with vent grate with at least **V2** sq. in. of open surface area. Secure with stainless steel screws (see sheet 3 of 3 FAST Details.)
or
Run vent to desired location and cover opening with vent grate with at least **V2** sq. in. of open surface area. Secure with stainless steel screws. Vent piping must not allow excess moisture build up or back pressure.
 - All appurtenances to FAST® (e.g. tank pump outs, etc.) must conform to all country, state, province, and local plumbing and electrical codes. The blower control system is provided by Bio-Microbics, Inc.
 - Either the influent pipe tee shall be fitted with a pipe cap or the baffle separating the two zones shall be extended to the top of the tank. If choosing to use the pipe cap; drill a 1/4" [0.6cm] vent hole in the cap and the baffle shall be at least 3" [8] higher than the water level as shown on the drawing.
 - All inspection, viewing and pump out ports must be secured to prevent accidental or unauthorized access
 - Tank, anchors, piping, conduit, blower housing pad and vents are provided by others.
 - All piping and ancillary equipment installed after FAST® must not impede or restrict free flow of effluent.
 - H1 Min** Height may be reduced, consult factory and reference "Short-FASTModule-Procedure.pdf"
 - See sheet 3 of 4 for required dimensions.



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DO NOT SCALE
UNLESS NOTED
DIMENSIONS
ARE IN INCHES
(CENTIMETERS)
TOLERANCES
± 0.02 IN/IN
(± 0.05 CM/CM)

BIO-MICROBICS
INCORPORATED

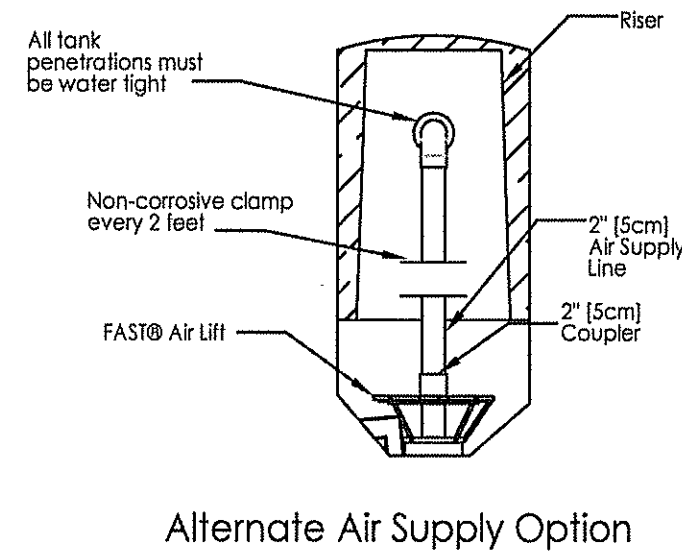
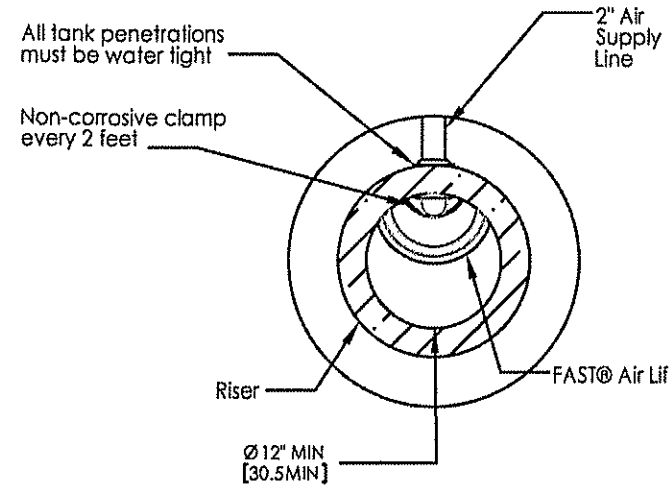
MA 0.5-1.5 FAST Units

WEIGHT	DATE	SIZE	DRAWING NUMBER	SHEET
	2/18/2006	A	FAST® with feet	2 OF 4
CHECKED	4/19/2011		REVISED 4/19/2011	REV. INI-04-D

Unit Size	A MIN	B MIN	V1 MIN	V2 MIN	L1	L2	L3	W1 MIN	W2	W3	H1 MIN
0.5	500	1000	3"	7.1 in sq	59.5"	54"	29.75"	31.25"	25"	15.125"	16.375"
0.75	500	1000	3"	7.1 in sq	60"	54"	31.5"	44.25"	37"	21.5	16.375"
0.9	500	1000	3"	7.1 in sq	59"	54"	31.25"	54.5"	49"	26.625	16.375"
1.0	500	1000	4"	9 in sq	59"	54"	31.25"	54.5"	49"	26.625	16.375"
1.5	750	2000	4"	9 in sq	83.5"	75.75"	42.875"	55.75"	49"	27.625	16.25"

A MIN	Settling Zone (MIN Liquid Capacity)
B MIN	FAST® Chamber (MIN Liquid Capacity)
V1 MIN	Vent Diameter (MIN)
V2 MIN	Vent grate open area (MIN).
L1	FAST® Length and MIN Tank Length
L2	Length of tank opening for hanging FAST®
L3	FAST® Length from edge of liner to center of airline.
W1 MIN	FAST® MIN Tank Width.
W2	Width of tank opening for hanging FAST®.
W3	FAST® Width from edge of liner to center of airline.
H1 MIN	Clearance from center of outlet to inside top of tank (for feet install only)

- Notes**
- Secure leg extension to the FAST® unit by placing two screws on each side of the leg extension (4 screws per foot are included).
 - Cut 4" schd. 40 PVC pipe (not included) to obtain the desired height. Minimum pipe length of 6 1/8" [15.56cm]. For heights greater than 18" [45.7cm] use schd. 80 PVC pipe (not included). Consult factory for extending leg beyond 36" [9cm].
 - Anchor the leg extensions to the tank with non-corrosive hardware (not included) at the provided mounting points.
 - The air supply line into the FAST® unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2' MIN.
 - Tank, anchors, piping conduit, blower housing pad, and tank vents are provided by others.



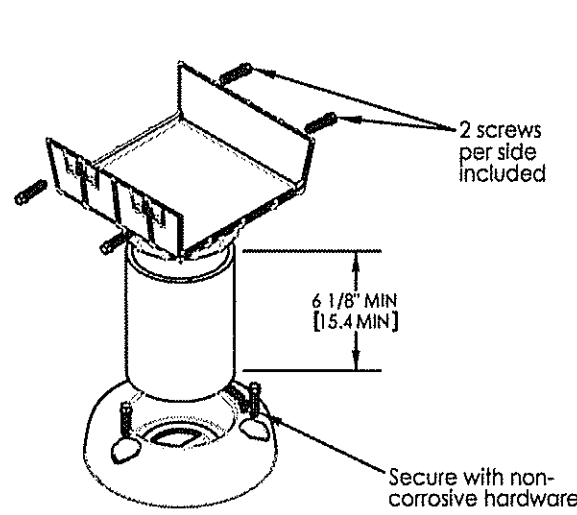
DO NOT SCALE
UNLESS NOTED
DIMENSIONS
ARE IN INCHES
(CENTIMETERS)
TOLERANCES
± 0.02 IN/IN
(± 0.05 CM/CM)

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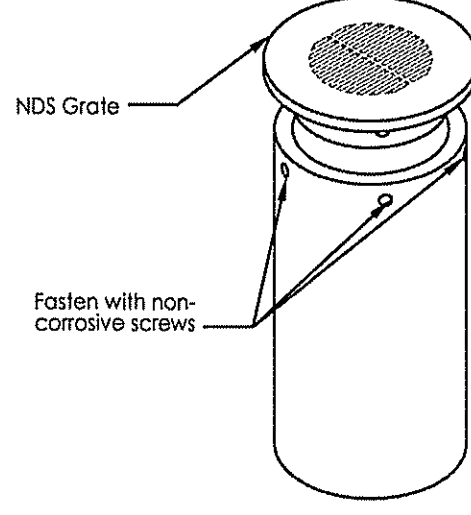
MA 0.5-1.5 FAST Units

WEIGHT	DATE	SIZE	DRAWING NUMBER	SHEET
	2/18/2006	A	FAST® Details	4 OF 4
CHECKED	4/19/2011		REVISED 4/19/2011	REV. INI-04-D

Minimum leg extension assembly see note 2, 3, & 4



FAST® Vent Option



Alternate Air Supply Option

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TOLERANCES
± 0.02 IN/IN
(± 0.05 CM/CM)

BIO-MICROBICS
INCORPORATED

MA 0.5-1.5 FAST Units

WEIGHT	DATE	SIZE	DRAWING NUMBER	SHEET
	2/18/2006	A	Chart	
CHECKED	4/19/2011		REVISED 4/19/2011	REV. INI-04-D

**PROPOSED ON-SITE
SEWAGE TREATMENT AND DISPOSAL SYSTEM**

Prepared for: Cousins Family Revocable Trust
Location: 462 Shore Road - Truro, MA

Ryder & Wilcox, Inc., P.E. & P.L.S.
3 Giddiah Hill Rd.

P.O. Box 439
So. Orleans, MA, 02662
Tel. (508) 255-8312
Fax. (508) 240-2306

Scale: 1" = 20'
Drawn by - SMM
Date - June 9, 2023

Sh. 2 of 2

Job No. 12940

Ryder & Wilcox

SURVEYING · ENGINEERING
HOME PLANNING & DESIGN



3 GIDDIAH HILL ROAD · P.O. BOX 439
SO. ORLEANS, MASSACHUSETTS 02662-0439
TEL: 508.255.8312 FAX: 508.240.2306
EMAIL: info@ryder-wilcox.com

July 3, 2023

Truro Board of Health
24 Town Hall Road
Truro, MA 02666

Re: 6 Tom's Hill Path (Map 45, Parcel 80)

Dear Board Members,

On behalf of the Homeowners, the Thomas D. France and Leslie W. France Revocable Living Trust and Peter Lennarson, please reserve time at your July 18th hearing to consider a request for a variance from the Truro Board of Health Regulations. The variance is being requested in order to allow the installation of a new Title 5 subsurface sewage disposal system (SDS) to replace existing cesspools serving the existing dwelling and guest studio located at the above referenced property.

According to the Assessor's office, the property contains 5.85 acres (250,000 SF+/-) and two buildings. The main house, constructed in 1955, has a living/dining room, kitchen, library, two bedrooms, a full bath and one half bath on the first floor. The library has privacy and could be used as a sleeping area. A fourth bedroom and full bath are located in the basement level. The bedroom is only accessible from an outside door; there is no interior access to the main level. A detached "guest studio" constructed in 1970 contains two bedrooms, a weaving studio, and a full bath. The studio has privacy and could be used as a sleeping area.

There are currently three sewage disposal systems ("SDS") serving the two buildings. The SDS serving the first floor of the dwelling consists of a 1000-gallon septic tank, distribution box, and leaching pit installed in 1987. The approved capacity of the SDS is 440 GPD. The lower level bedroom/bath and the guest studio are each served by cesspools.

The two cesspools are to be replaced as required by the Truro Board of Health Regulations Section 6, Article 3, Part 1h which defines cesspools as failed systems and requires the installation and certification of an upgraded Title 5 system by December 31, 2023. In order to accomplish this, the Applicant proposes to connect the existing lower level bath to the existing Title 5 system serving the main dwelling. A pump system will pump the sewage to the existing septic tank. The existing SDS was inspected by David Quinn, a DEP-approved System Inspector on 12/21/2022. With the exception of a distribution box that needs to be replaced, the system was found to be in good condition with no signs of failure. Since the approved capacity of the SDS is 440 GPD, the addition of the fourth bedroom to the system will not exceed the approved capacity. A separate Title 5-compliant SDS will be installed to serve the guest studio.

Since the total sewage flow on the site is greater than 600 GPD (6 bedrooms total @ 110 GPD/BR = 660 GPD; 7 bedrooms @ 110 GPD/BR = 770 GPD), an Innovative/Alternative ("I/A") technology is required in accordance with the Truro Board of Health Regulations. Incorporating I/A technology would require upgrading the existing 1978-Code Title 5 SDS with a new SDS designed in accordance with the current Code, and would incur significant additional expense. Therefore, on behalf of the Homeowners, I would like to request a variance from the following regulation:

Town of Truro Board of Health Regulations

Section 6, Article 8- Innovative/Alternative technology

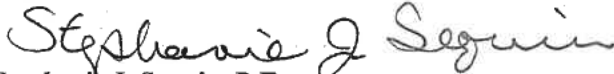
1). **Applicability:** The use of I/A technology is required in the following circumstances:

a) For flows greater than 600 GPD

The property is very large in comparison to most properties in Truro. With 250,000 SF of upland, it contains more than 3.5 times the lot area required to construct a new 7-bedroom dwelling. At approximately 80 feet above mean sea level, the location of the existing/proposed SDS's is well above ground water and is not close to any Resource Areas. The property has been owned by the same family for 60 +/- years and is only used seasonally. The library is used as a library and the weaving studio is used as a weaving studio, leaving only 5 rooms that are used as bedrooms. For these reasons, I believe the requested variance can be granted without posing a threat to Public Health or the environment.

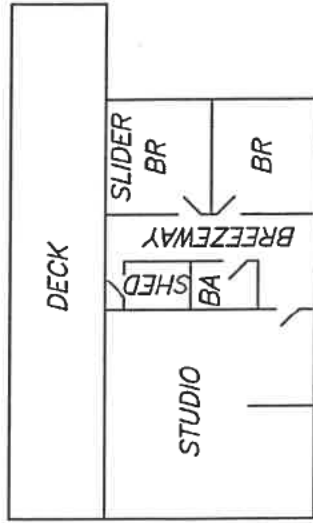
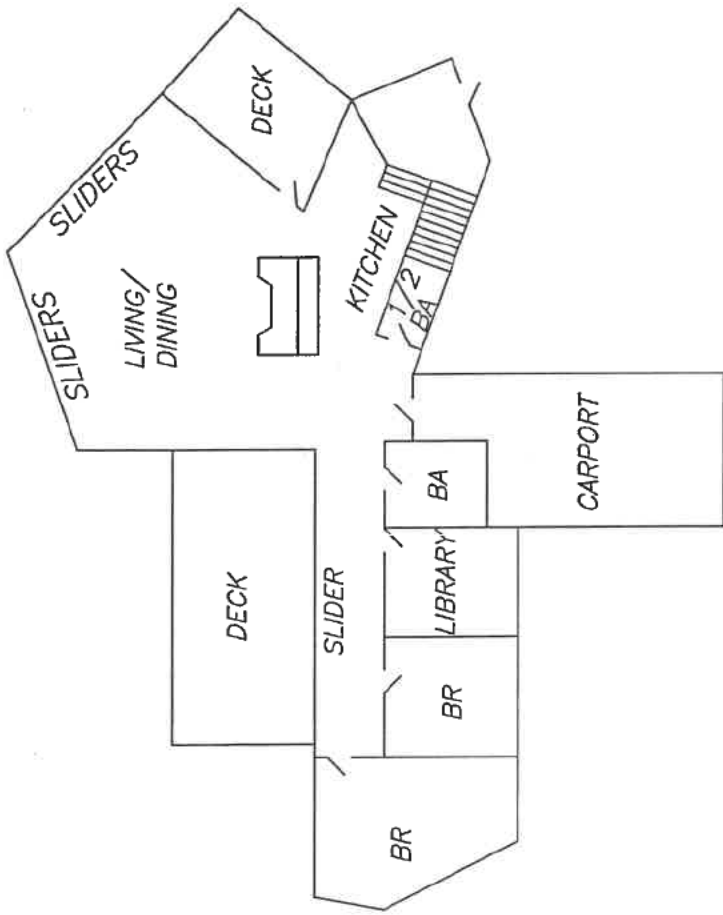
I have included seven (7) sets of the following: Application for Board of Health Variances, a Certified List of Abutters, the Abutter's Notice, floor plan sketches, and a check for \$75.00. Please feel free to contact this office if you require any additional information.

Sincerely,

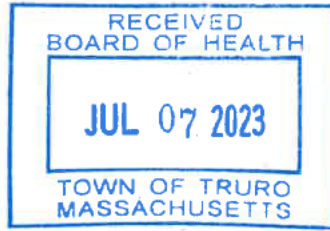

Stephanie J. Sequin, P.E.

cc: France; Lennarson
Job #13102

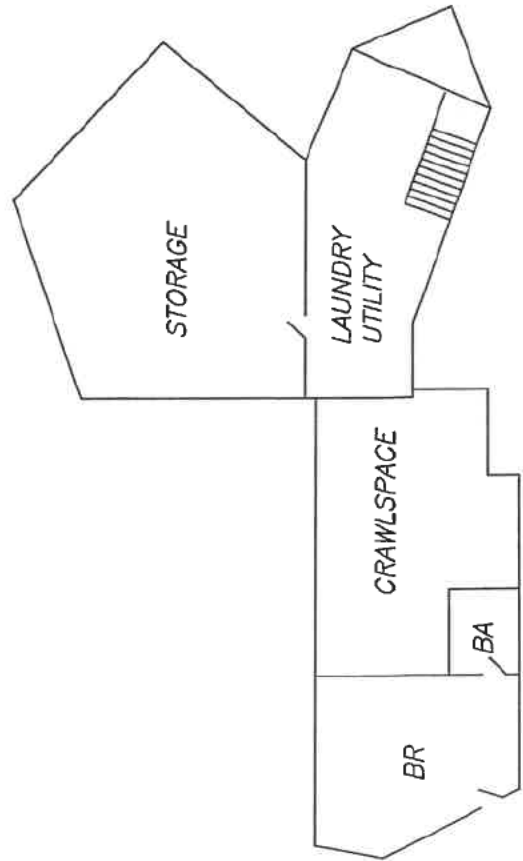
DWELLING FIRST FLOOR



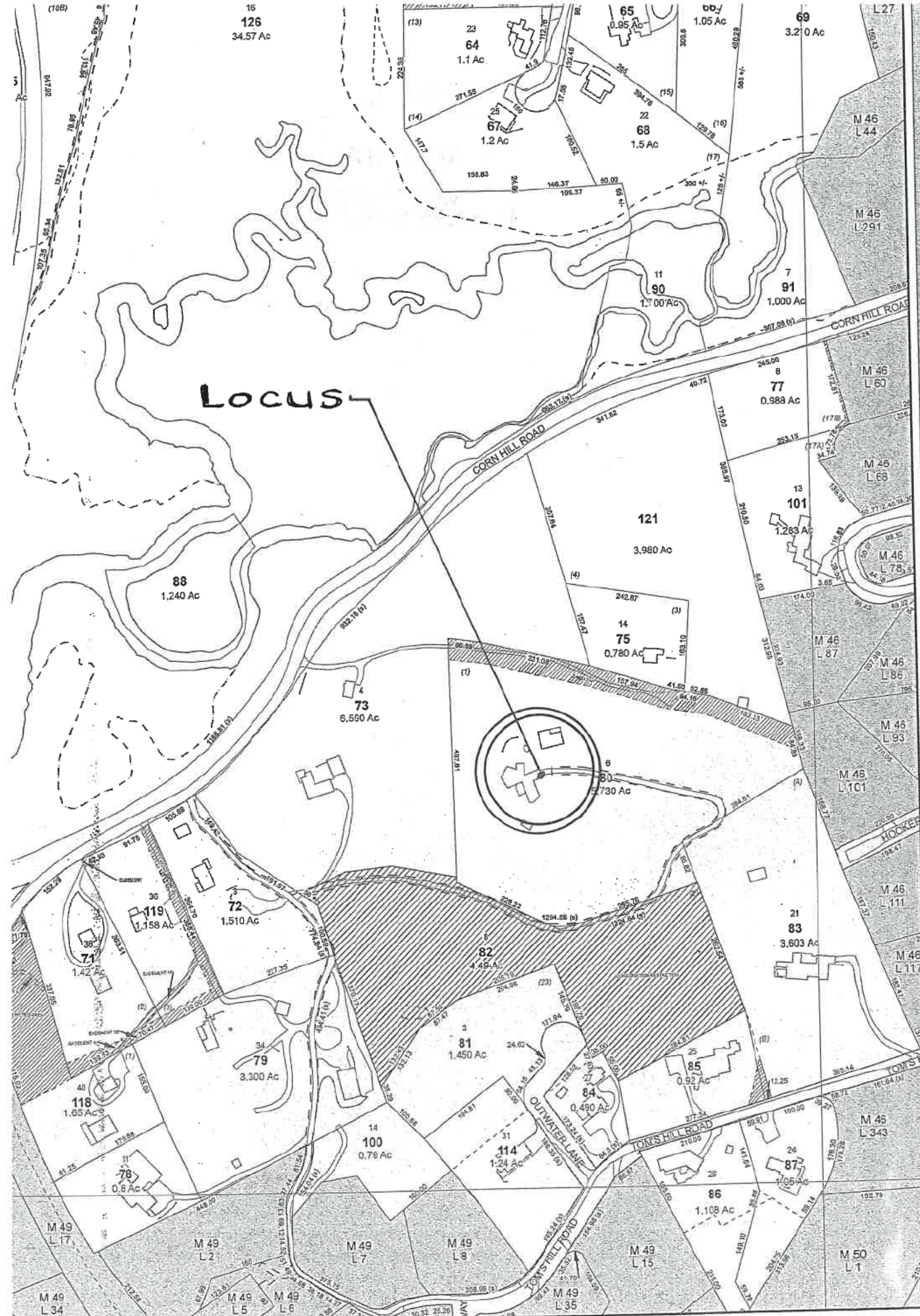
GUEST STUDIO



EXISTING ROOM LAYOUT
 6 TOM'S HILL PATH, TRURO
 (NOT TO SCALE)

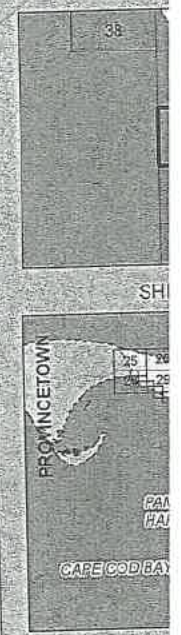


DWELLING LOWER LEVEL



3 Dieje
100 Surv
160(e) Scal
(2) Surv
1.23 Ac Acre
1.23 Ac (c) Calc

INTENDED FOR ASSES
COMPILED FROM TAX M
AND OTHER PUBLIC RE
SHOULD CONSULT THE
DOCUMENTS FOR VER
APPEARING ON THIS M



Completion
Date
11/26/2018
10/30/2019
10/30/2020
9/22/2021

CAIT
11 PLEASANT S
800.322.454
Plot Date: 9/2

Expanded Mans

Fee: \$75.00



APPLICATION FOR BOARD OF HEALTH VARIANCES

Date: 6.28.23

Property Owner's Name: Thomas D. France and Leslie W. France Revocable Living Trust (1/3) and Peter Lennarson (2/3)

Mailing Address: Leslie W. France, Trustee; [REDACTED]

Address of Property: 6 Tom's Hill Path

Map and Parcel Number: Map # 45 Parcel # 80

Design Engineer/Sanitarian Stephanie J. Sequin, P.E.

Firm/Company Name: Ryder & Wilcox, Inc. Phone #: 508-255-8312

Address: Box 439 - S. Orleans, MA 02662

Please check type of variance requested:

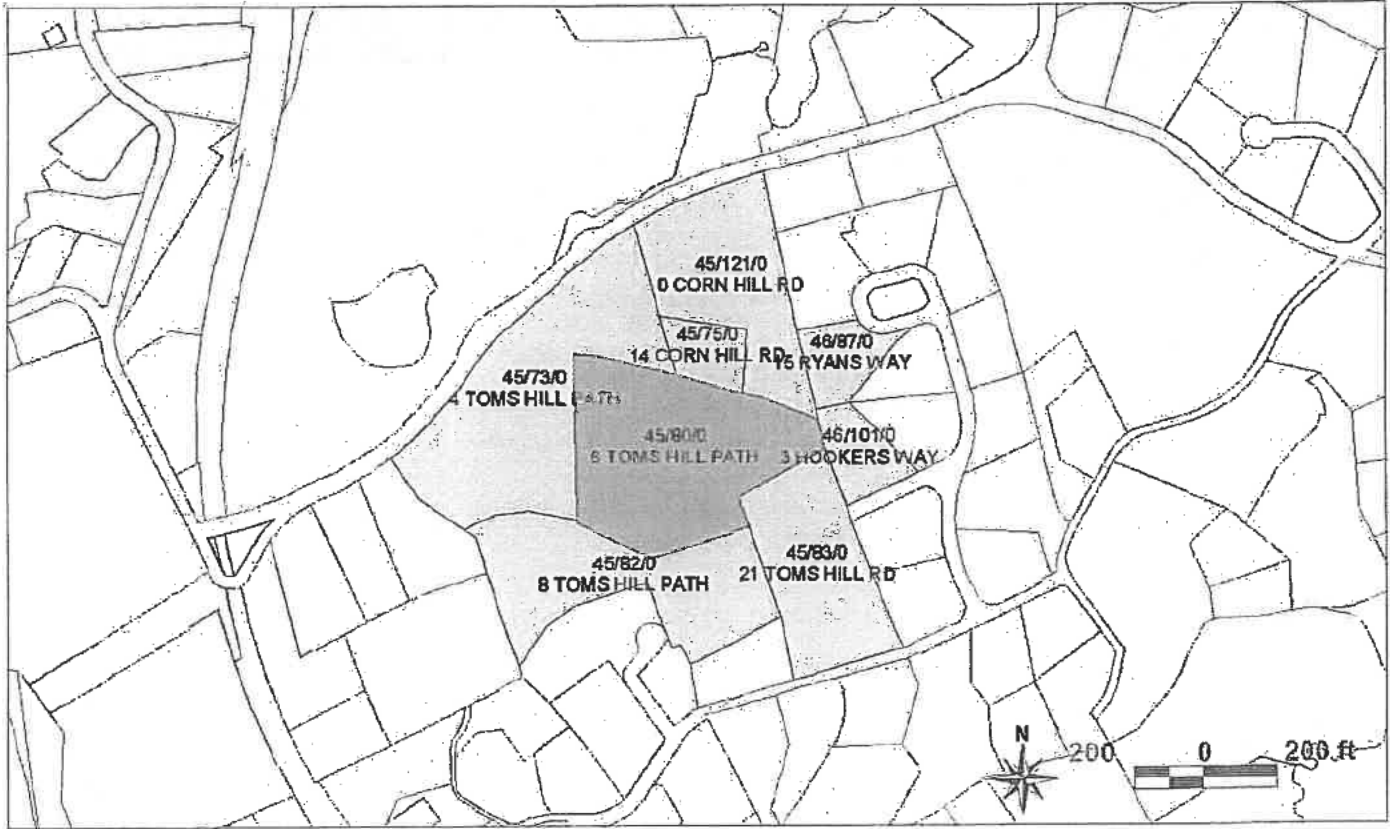
Title 5 Variance Request: Section _____

Board of Health Variance Request: Section/Article ^{8. 1). a) - I/A Technology required for flows > 600 GPD} _____

Signature (Representative) *Stephanie J. Sequin* Date 7/3/23

Signature (Property Owner) *Leslie W France* Date 6/28/23

Custom Abutters List



Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
2182	45-73-0-R	UPLANDS NOMINEE TRUST TRS: RICHARD H P THOMPSON					
2183	45-75-0-R	ROSE SARAH & BOCIAN REBECCA & ROSE ELISABETH					
2189	45-82-0-E	TRURO CONSERVATION TRUST TRS: ROBERT BEDNAREK ET AL					
2190	45-83-0-R	WISOTZKY MARK & LISA K					
2224	45-121-0-E	TRURO CONSERVATION TRUST TRS: BETSEY BROWN ET AL					
2315	46-87-0-R	PESIRI FAMILY INVESTMENT TRUST TRS: PESIRI RICHARD S & CAROL					
2329	46-101-0-R	ROBERT J DAGLIO 1999 REV TST & ELIZ. A DAGLIO 1999 REV TRUST					

TWC 3/10/2023

Ryder & Wilcox

SURVEYING · ENGINEERING
HOME PLANNING & DESIGN



3 GIDDIAH HILL ROAD · P.O. BOX 439
NO. ORLEANS, MASSACHUSETTS 02662-0439
TEL 508.255.8312 FAX: 508.240.2306
EMAIL: info@ryder-wilcox.com

July 3, 2023

Re: Proposed septic system upgrade
6 Toms Hill Path - Truro, Mass. (Assrs. Map 45 Pcl. 80)

Dear Abutter:

You are being notified pursuant to the State Environmental Code Title 5 and the Truro Board of Health Regulations that the Board of Health will hold a public hearing to hear requests for variances from applicable State and/or Local regulations. The variances are being requested to allow the installation of a sewage disposal system to replace existing cesspools serving an existing dwelling and guest studio.

A copy of the letter requesting a hearing is enclosed. Copies of the complete Application will be on file with the Board of Health by July 7th and may be viewed prior to the public hearing to be held on July 18, 2023. Variance hearings begin at 4:30 P.M. The estimated time of the hearing for this project may be obtained by contacting the Health Department at 508-214-0920.

The meeting will be held remotely. The meeting can be viewed on Channel 18 and on the homepage of the Town of Truro website. Instructions for remote participation will be made available on the Town of Truro website, or by contacting the Health Department.

Sincerely,


Stephanie J. Sequin, P. E.

cc: France; Lennarson

13102

Name and Address of Sender

FRANCE #13102

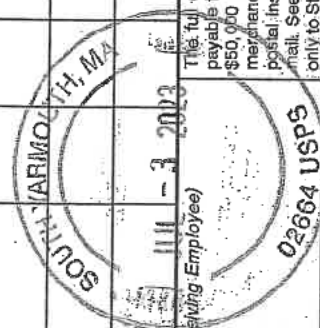
Indicate type of mail:
 Registered
 Insured
 COD
 Certified

Return Receipt for Merchandise
 Int'l Recorded/Del.
 Express Mail

Check appropriate block for Registered Mail:
 With Postal Insurance
 Without Postal Insurance

Affix stamp here if issued as certificate of mailing or for additional copies of this bill.
 Postmark and Date of Receipt

Line	Article Number	Postmaster, Per (Name of Receiving Employee)	Postage	Fee	Handling Charge	Act. Value (If Regls.)	Insured Value	Due Sender If COD	R. R. Fee	S. D. Fee	S. H. Fee	Rest. Del. Fee	Remarks
1	1021 0350 0021 8338 3864	ROBERT J DAGLIO 1999 REV TST & ELIZ. A DAGLIO 1999 REV TRUST PO BOX 579 TRURO, MA 02666	46-101-0-R										
2													
3													
4													
5	3857	UPLANDS NOMINEE TRUST TRS: RICHARD H P THOMPSON 7 PINE GROVE WALTON, MA 02666	45-73-0-R										
6													
7	3871	ROSE SARAH & BOCIAN REBECCA & ROSE ELISABETH 15 HONEY HILL ROAD EAST WARDEN, CT 06420	45-75-0-R										
8													
9													
0	3888	PESIRI FAMILY INVESTMENT TRUST TRS: PESIRI RICHARD S & CAROL PO BOX 12 TRURO, MA 02666	46-87-0-R										
1													
2	3891	TRURO CONSERVATION TRUST TRS: BETSEY BROWN ET AL PO BOX 327 NO. TRURO, MA 02652-0327	45-121-0-E										
3													
4	3895	WISOTZKY MARK & LISA K PO BOX 1091 TRURO, MA 02666											
5													



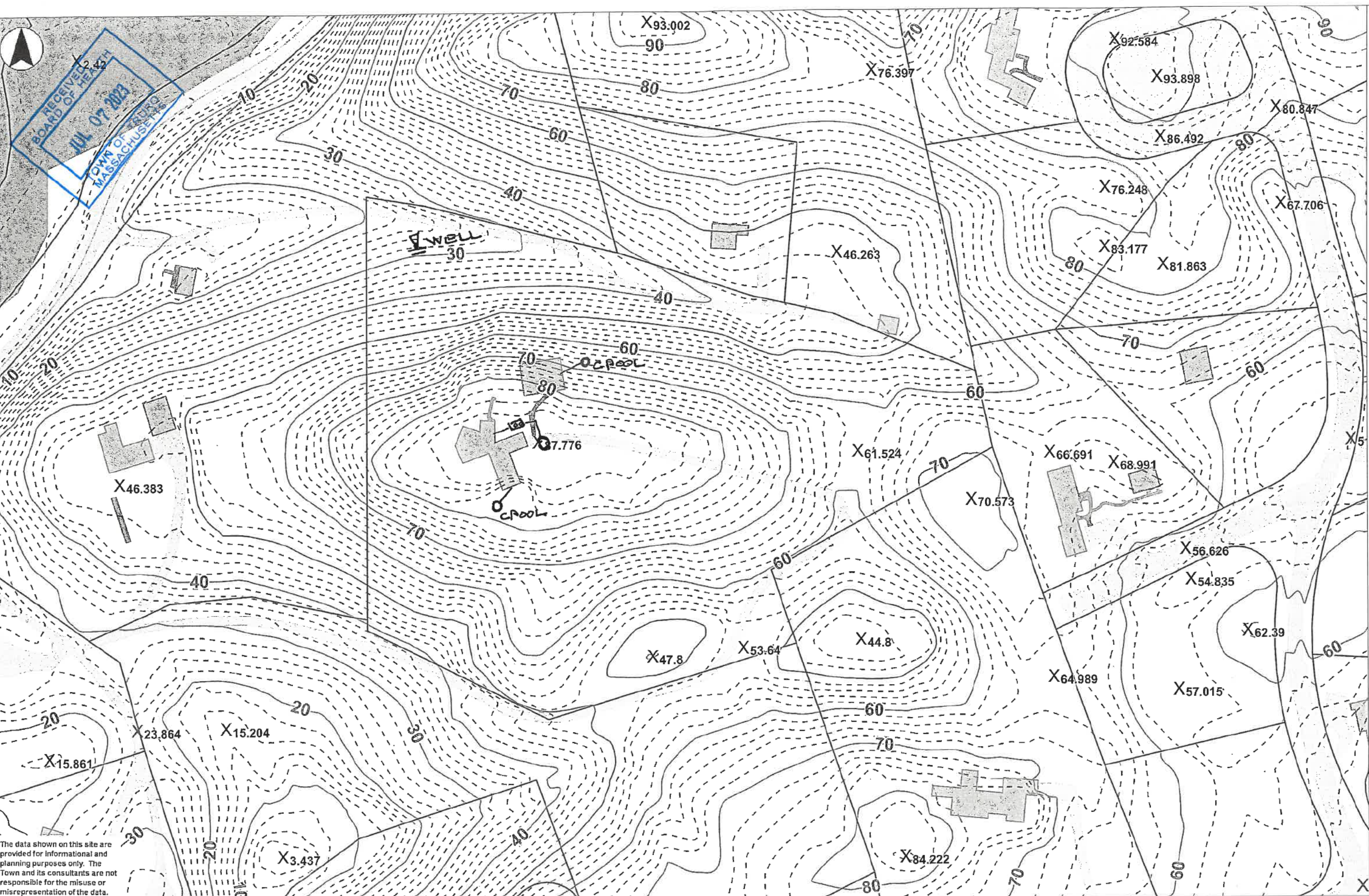
The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstruction insurance is \$50,000 per piece subject to a limit of \$500,000 per occurrence. The maximum indemnity payable on Express Mail merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on insured and COD mail. See International Mail Manual for limitations of coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.

Total Number of Pieces Received at Post Office

6

6

Form Must Be Completed by Typewriter, Ink, or Ball Point Pen



RECEIVED
 BOARD OF HEALTH
 JUL 07 2023
 TOWN OF BRIDGE
 MASSACHUSETTS

- Parcels
- Spot Heights (ft)
- Contours
 - 50ft Contours
 - 10ft Contours
 - 2ft Contours
- Buildings
- Sidewalks
- Street Pavement
- Town Boundary
- MA Highways
 - Interstate
 - US Highway
 - Numbered Routes
- Street Centerlines
- Abutting Towns Labels
- Abutting Towns
- Waterbodies
- Major Streams
- Town Mask
- Bath Donut2
 - 0-5 ft
 - 5-10 ft
 - 10-15 ft
 - 15-20 ft
 - 20-30 ft
 - 30-40 ft
 - 40-50 ft
 - 50-60 ft
 - 60-70 ft
 - 70+ ft
- Bathymetry
 - 0-5 ft
 - 5-10 ft
 - 10-15 ft
 - 15-20 ft
 - 20-30 ft
 - 30-40 ft
 - 40-50 ft
 - 50-60 ft
 - 60-70 ft
 - 70+ ft
- Background

The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.



J.M. O'REILLY & ASSOCIATES, INC.

PROFESSIONAL ENGINEERING, LAND SURVEYING & ENVIRONMENTAL SERVICES

Site Development • Property Line • Subdivision • Sanitary • Land Court • Environmental Permitting

HEALTH DEPARTMENT
TOWN OF TRURO

JUL 11 2023

RECEIVED BY:

July 11, 2023

Truro Board of Health
Attn: Emily Beebe, Agent
24 Town Hall Road
Truro, MA 02666

RE: 24 Cliff Road
Truro, MA
Owner: Resika

Dear Ms. Beebe,

J. M. O'REILLY & ASSOCIATES, INC. respectfully requests a continuance from the Board of Health Hearing scheduled for July 18, 2023 to the Public Hearing scheduled for August 1, 2023.

Thank you for your attention to this matter. Should you have any questions, please do not hesitate to call our office at 508-896-6601.

Very Truly Yours,
J.M. O'REILLY & ASSOCIATES, INC.

John O'Reilly, P.E., P.L.S.
Principal

SCHOFIELD BROTHERS OF CAPE COD
Land Surveying and Environmental Permitting
161 Cranberry Highway
P.O. Box 101
Orleans, MA 02653-0101
508-255-2098 - 508-240-1215 (fax)
E-mail: schobro@capecod.net

July 14, 2023

Truro Board of Health
24 Town Hall Road
Truro, MA 02666

RE: Continuance Requests

Dear Members of the Board;

The purpose of this letter is to request continuances from your July 18, 2023 public hearing until your August 1, 2023 public hearing for the following properties:

- 5 Valentina Way / The Estate of Marguerite Yannetty
- 7 Amity Lane / Irene Selver
- 38 Toms Hill Road / Tina Ryman

Please do not hesitate to contact our office if you have questions or concerns. Thank you.

Sincerely,
Schofield Brothers of Cape Cod

Laura Schofield

Laura Schofield, RS, SE
Project Manager

cc: Christine Bernstein, Irene Selver, Tina Ryman



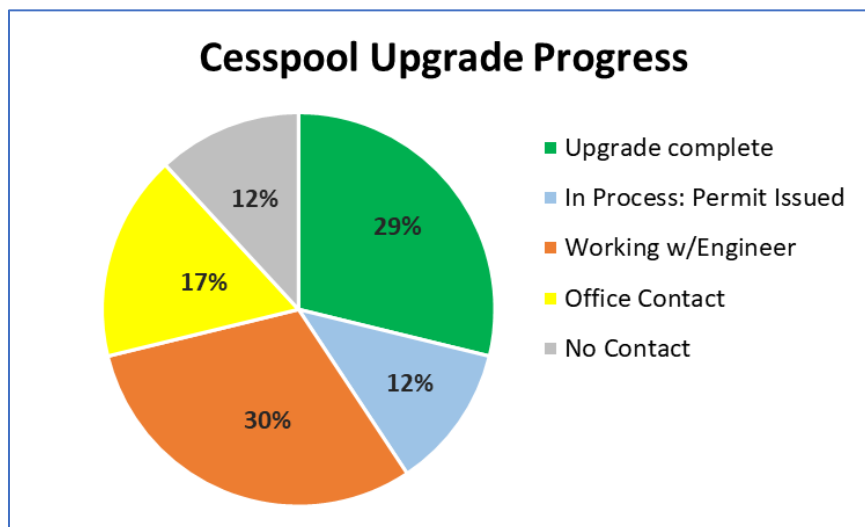


TOWN OF TRURO
HEALTH & CONSERVATION DEPARTMENT
24 Town Hall Road, Truro 02666
508-349-7004 x119

Memo to: Truro Board of Health
From: Emily Beebe, Truro Health & Conservation Agent
Date: July 18, 2023
Re: **Water Resources Update July 2023**

Regarding cesspool upgrades to Title 5

To date, 41% of the properties with cesspools have either completed the upgrade process or have permits issued to do so. 30% are working with engineers and 17% have contacted our office with questions but may not yet be under contract with an Engineer/designer. Our challenge remains making direct contact with the 21 homeowners who we have not yet heard from, so that we may assist them in their efforts to comply. To date, we have verified that none of the 21 properties are registered rental properties, and 4 of them are non-habitable/abandoned.



Regarding Administrative Consent Orders (ACOs) The Board of Health regulations have been revised to incorporate the use of ACOs and are now in effect. The ACO may be used to form legal agreements between the Board of Health and property owners regarding the timing of upgrades or connection to sewer facilities.

ACOs will be processed as variance requests to title 5 as part of the CWMP process.

We anticipate bringing draft ACOs to the Board of Health this August. We have several property owners on Beach Point that we have been in discussions with about the process.

Regarding stormwater management- Stormwater that is directed into or overflows into wetland resource areas contributes significant amounts of nutrients and pathogens. We are working to address how stormwater is managed, on many fronts:

- Sediment control regulations in the form of a general bylaw will be advanced to the Fall Town Meeting in October, for which the warrant closes August 10.
- A public meeting date tbd will be scheduled for additional discussion and comments.
- Stormwater is currently addressed in our curb-cut policy. Adding a degree of accountability for private property owners to properly address stormwater flows on their own property and not allow it to runoff into public ways is the goal of the proposed draft Stormwater Bylaw.

Regarding changes to Title 5, and TMDL NSA's

Changes to Title 5 have been published and became effective on July 7, 2023. MassDEP has also developed final Watershed Permit Regulations. Title 5 now designates watersheds on Cape Cod that include an EPA-approved TMDL as NSAs - which are Nitrogen Sensitive Areas .

Communities with nitrogen TMDLs will have to upgrade all on-site system to use enhanced I/A systems within 7 years unless the community applies to DEP for a watershed permit. The watershed application would contain a proposal describing how the community will meet the transition to enhanced I/A upgrades to reduce the nutrient load to the impacted water body within a 20-year period. If the community files an application for a watershed permit, the upgrade requirements will be stayed or paused.

This regulatory shift does not apply to most of Truro at this time.

There is a small area in South Truro that will be required to act under the terms of the Wellfleet Harbor Watershed permit, which is still under review with the DEP. For a map of this area see [Nitrogen Sensitive Areas Address Lookup \(arcgis.com\)](#)

The Town understands that that East Harbor and the Pamet River are impaired water bodies. We are working proactively, to align our planning process with the new regulations. We have contracted with the engineering firm GHD to prepare our Comprehensive wastewater management plan. The plan will direct our wastewater management activities across town. It is likely that we will be moving into a watershed permit application process within several years, and once we are inside that permit, we will have up to 20 years to meet the enhanced I/A upgrade targets.

Regarding Wastewater Management Planning:

GHD and Scott Horsley will be updating the BoH at this meeting of July 18, 2023, to describe where we stand with Provincetown about sewer planning. At this time, the Board of Health and Selectboard will bring Truro into a more formal level of discussion and agreement with Provincetown. GHD will also be communicating with the DEP about our ACO process.

Water Resources discussion with Provincetown:

The Provincetown-Truro staff/consultant team met in late June to discuss the peer review of past and present modeling that has been used. The work is moving forward, and we expect to have detail to report out in September.



TOWN OF TRURO

PROPOSED GENERAL BYLAW:
STORMWATER MANAGEMENT by DRAINAGE, EROSION
AND SEDIMENT CONTROL

[HISTORY: Proposed as Draft to TBoH 1-17-2023]

[*draft version:* July 1, 2023]

§ 1. Purpose

The purpose of this bylaw is to protect, maintain and enhance the public health, safety, environment and general welfare by establishing minimum requirements to control the adverse effects of stormwater runoff and erosion. Through proper management of stormwater, sediment and erosion controls this bylaw safeguards the public health, safety, environment and general welfare of the public. This bylaw serves to protect surface water and groundwater resources, promote groundwater recharge and prevent flooding.

§ 2. Applicability

The requirements of this bylaw shall apply to existing development, new development, and redevelopment projects to minimize adverse impacts of erosion and stormwater runoff, off-site and downstream, which would be borne by abutters, townspeople, the general public and wetland resource areas. The Select Board may delegate from time-to-time certain duties described in this bylaw to designees who will act on its behalf for the purposes of enforcement.

§ 3. Definitions

New Development: development resulting from the conversion of previously undeveloped land or agricultural land uses.

Nutrient Pollution Sensitive: Nutrient pollution is the process where too many nutrients, mainly nitrogen and phosphorus, are added to bodies of water and can act like fertilizer, causing excessive growth of algae. This process is also known as eutrophication. Excessive amounts of nutrients can lead to more serious problems such as low levels of oxygen dissolved in the water. Severe algal growth blocks light that is needed for plants, such as seagrasses, to grow. When the algae and seagrass die, they decay. In the process of decay, the oxygen in the water is used up and this leads to low levels of dissolved oxygen in the water. This, in turn, can kill fish, crabs, oysters, and other aquatic animals.

Recharge: hydrologic process where water moves downward from surface water to groundwater.

Redevelopment: the action or process of developing something again or differently.

Runoff: the draining away of water (or substances carried in it) from the surface of an area of land, a building or structure.

Storm, 50-year: 6.60 inches of rain will fall in a certain area in a 24-hour period during any given year.

Stormwater: surface water in abnormal quantity resulting from heavy falls of rain or snow.

§ 4. Drainage requirements

- a. Runoff. All runoff from impervious surfaces of a lot shall be recharged on that lot. Runoff shall be diverted towards areas covered with vegetation for surface infiltration.
- b. Stormwater. All stormwater drainage shall be contained on the development site and away from wetland resources. All stormwater shall be treated on site unless there is a public benefit to connecting to another drainage system or allowing stormwater to flow off site. Commercial development shall be required to handle calculated flows from a 25-year storm (change this to 50-year storm?).
- c. Drains. In no instance shall roof drains, subsurface drains, or overflow drains of any kind be directed to the public road layout.

§ 5. Erosion and sediment control requirements

- a. Erosion. Erosion control provisions shall be designed and executed to prevent erosion or excessive uncontrolled surface water runoff from draining onto any public way, both during and after construction. No grading or clearing of land shall begin until all required erosion control measures are in place and fully constructed. Permanent erosion control measures including but not limited to re-vegetation, retention basins and siltation barriers may be required to ensure stormwater will not discharge onto the public way.
- b. Sediment control. The Town may require measures to reduce tracking of sediment from construction vehicles onto the public way. The contractor is required to clean up any sediment inadvertently discharged, through tracking or other means, into the public way or drainage systems. In no case shall sediment be allowed to discharge onto a public way or into public drainage infrastructure.

§ 6. Nutrient Pollution Sensitive Areas

For nutrient pollution sensitive areas, please refer to the Best Management Practices within the Massachusetts Stormwater Handbook, Wetlands regulations, 310 CMR 10.00, and the Water Quality Regulations, 314 CMR 9.00, relating to stormwater.

§ 7. Fines and penalties

Any person violating this chapter shall be punished by a fine of not more than two hundred dollars (\$200.) for each offense and may have their permit revoked. Each day that such offense continues shall constitute a separate offense.

Minutes of the Truro Board of Health, Tuesday March 21, 2023

This was a remote meeting.

Board members in attendance:

Chair Tracey Rose, Vice Chair Jason Silva; Board Members: Brian Koll; Also Present: Health Agent Emily Beebe, Assistant Health Agent Courtney Warren.

Absent: Board Members: Helen Grimm, Tim Rose & Alternate Candida Monteith.

The meeting was called to order at 5:01 PM by the Chair, who described the remote meeting procedures and the process for public participation.

PUBLIC COMMENT:

Alan Dinsfriend asked if the Board would be discussing the proposed changes to the dog control bylaw. The Chair responded that it was not on the agenda. Mr. Dinsfriend continued to present his opinions and ask questions of the Board about the topic.

The Health Agent asked the Chair for a point of order reiterating that the matter was not on the agenda and could not be discussed.

Heather Murray was on the call and asked about what the Cape was doing about the Avian influenza. Cass Johnson commented that she agreed with Mr. Dinsfriend and wants all comments in the public record. Steven Stahl commented about a memo about the dog leash issue.

Change of Manager/General Manager: 640 Shore Road- Lexvest (2/11)

The request before the Board was to allow Lexvest to provide a general manager, Sue Casper. The general manager would oversee the on-site manager, who may change from year-to-year but the general manager would remain the same. **Motion: Board member Jason Silva moved to approve the request; Second: Board member Brian Koll; Vote: 3-0-0; the vote was unanimous, and the motion passed.**

Change of Manager: 596 Shore Rd, Anchorage by the Bay (5/17) The association proposed a new on-site manager- Amy Kelly. They have retained Peters Property management for their off-site managers. **Motion: Board member Jason Silva moved to approve the request; Second: Board member Brian Koll; Vote: 3-0-0; the vote was unanimous, and the motion passed.**

Discussion of Proposed amendments to Truro general by-laws:

Stormwater Management: proposed addition of new Bylaw to would regulate stormwater flows- The Health Agent told the Board that the proposed bylaw would be pushed to the Fall

Special town meeting to allow better public process. Jason Silva asked how would this be applied to existing development? (example- what happens if you have a puddle at the bottom of your driveway) Brian Koll agreed and suggested that separating the 3 categories of development may make the implementation clearer. Pre-existing, New Development, Re-development. Jack Reimer suggested that the board review the 6-28-2022 joint meeting tape to hear Scott Horsley's presentation and suggests that there is the need for a stewardship role in developing the regulation. Assistant Agent Courtney Warren added that this presentation

Karen Ruyman expressed her gratitude about bringing a bylaw together. She also asked if the process could include an assessment of existing homes from an expert on how the homeowners

could best meet standards proactively. She encourages public education about this topic. The Chair thanked Karen Ruyman in return.

Chris Lucy asked how we will deal with existing development, and how to deal with MA DOT who is the most non-compliant about stormwater. Private roads that dump water onto Public ways. What about property in the seashore with dirt roads that washout.

Discussion on development of fertilizer bylaw for Truro

The Health Agent discussed various process options for controlling the use of fertilizers. Fertilizers and Pesticides are very difficult for localities to address, due to the federal regulations. In 2012 CCC conducted a Cape-wide inventory of the fertilizer and pesticide use, determining that homeowner use of the chemicals was 70 and 80% of the users for these types of chemicals, respectively. The agent described several process options, but recommended that right now the Board consider control of the use of fertilizers with a policy, backed up with public education and guidance documents to reduce the use of these substances.

Jason Silva asked about enforcement, and the Agent suggested conversation turned to a discussion about education, and stewardship, which would be a better strategy. Brian suggested that there be a hierarchy of controls established-such as education, enforcement, alternatives. The Board agreed that this was a good frame and should be discussed further.

Chris Lucy said has a pesticide license issued by the State, and he described how enforcement of the pesticide regulations is done. The tree companies have a deep root injection for pesticides. Karen Ruyman asked if fertilizer and pesticide companies have a permit to operate in Truro. She suggested that the Town should subscribe to work with other Towns to develop fertilizer and pesticide regulations when we have another chance. Jack Reimer asked how citizens can report chemical drift.

The Board Chair thanked the group for the discussion and said it would continue at a future meeting.

Water Resources Report for March 2023

The Agent reported that the cesspool upgrade program was progressing, and that many test holes were scheduled, and plans were coming in.

The Agent reported that they had started to meet with property owners about ACO's and would bring those to the Board when they are ready. The Town meeting warrant requests funding for the hydrologic evaluation of a neighborhood pond village, install monitoring wells and look upstream for impact sources.

Stone's Throw condominium has PFAS in their wells, and have requested permission to connect to the Provincetown water system; permission was granted by the Truro BoH and Select Board and the Provincetown Water and Sewer Board, however it was tabled by the Provincetown Select Board and the concern from the Select Board is that Stones Throw should explore their PFAS possibly mitigate the PFAS. The PFAS concentrations at Stones Throw have decreased over the winter. The chemical compounds are in our groundwater from septic systems, since PFAS is in household products that are resistant to water, grease, and stains. PFAS are also in certain firefighting foams and could be present from past use at incidents such as a car-fire, or house fire. However, the Truro fire Chief said that they do not use anything with PFAS compounds in them. The Agent suggested that she would reach out to Scott Horsley to explore what a PFAS investigation would look like. The wells that serve Stones Throw are located within the zone 2 of the South Hollow well field, which is the over-arching concern.

There was a brief discussion on the location of monitoring wells in the area, and that they might be used to determine ground water flow direction more specifically.

Steve Stahl asked how the PFAS contamination could be found inconsistently when we have a sole source aquifer on Cape Cod.

Jack Reimer asked about the Pamet lens, and whether contamination on the Chequesett lens could impact the Pamet lens. Further, he asked what outreach has been provided to residents in the neighborhood of Stones Throw, and does the Barnstable County lab test for PFAS?

The Agent replied that such a hypothetical contamination between the lenses is unlikely as the water is pulled laterally toward the Ocean and Bay. The Agent also stated that there was no notification requirement for abutters regarding PFAS, and that the presence of PFAS in a well does not mean the property is a source of PFAS. Barnstable County Lab does not offer PFAS analysis. Chris Lucy pointed out that septic systems are the source for much of our contamination in our drinking water wells.

On Monday March 20, DPW staff updated the Provincetown Selectboard growth management bylaw – how to move forward with development/wastewater credits. Staff's recommendation is to flatline projects other than affordable housing, and to continue to collaborate with the Town of Truro.

Minutes from January 3 were discussed. **Motion: Board member Brian Koll moved to approve the minutes; Second: Board member Jason Silva; Vote: 3-0-0; the motion passed.**

Report of the Chair: Tracey referenced an article in the CC Times by Laura Kelly.

Health Agents report: There will be a Public meeting on April 12, for the Cape Cod Commissions regional low-lying roads project. At this meeting there will be discussion, looking at possible solutions for segments on Shore Road, and Stotts crossing.

The Barnstable County Public Health nursing department is making their nurses available every week at the COA in Truro and daily across the Outer Cape through the end of June. Each program is free to attend by all Outer Cape residents. At these sessions residents will find pop-up nutrition education and diagnostic screenings for blood pressure & blood glucose checks.

Monday's in Orleans at 10, Eastham at 9 on Tuesdays at the COA. Wellfleet on Thursdays at 10:30 and Provincetown on Wednesdays. In Truro the nurses will be available on Thursday from 1-3 every week through the end of June.

There was also a discussion about the schedule for public hearings about the regulations specifying the transfer station permit change.

Jason asked for a future discussion on the Cape and Islands Water Protection fund. Feb 23 article about the funds budget. There was discussion about having the Town manager come to the meeting to update the Board of Health, and possibly asking Senator Cyr to attend. Brian Koll supported the idea that Senator Cyr be invited, to discuss this with the community.

**Board member Brian Koll moved to adjourn the meeting;
Second: Board member Jason Silva; Vote: 3-0-0, the motion passed.**

The meeting was adjourned at 7:12 P.M.

Minutes compiled by Emily Beebe

Minutes of the Truro Board of Health, Tuesday May 2, 2023

This was a remote meeting.

Board members in attendance:

Chair Tracey Rose, Vice Chair Jason Silva; Board Members: Helen Grimm, Brian Koll and Tim Rose; Also Present: Health Agent Emily Beebe, Assistant Health Agent Courtney Warren.
Absent: Alternate Candida Monteith

The meeting was called to order at 4:32 PM by the Chair, who described the remote meeting procedures and the process for public participation.

PUBLIC COMMENT:

Karen Ruymann commented on behalf of the of the Friends of the Village Pond Watershed thanked the Board Chair, Health Agent, and Assistant Agent for their presence at their Earth-Day celebration/meeting. As a resident, she commented that there has been an increase in transparency and that the Town needs future communications about the wastewater management plan. She also suggested that the Health Agents report is a valuable tool for disseminating information and education about ongoing project data.

AGENDA ITEMS

Request for Local upgrade approval: 70 Shore Road. This matter was continued from April 18, 2023 for the purpose of conducting a walk-through of the property. Sanitarian Dave Coughanowr was on the call for the owner. The Agent performed a walk through at the residence and found 4 bedrooms and more than 1 dwelling unit. The previously permitted 3-bedroom system has failed the septic inspection conducted for purpose of real estate transfer. There is no permit indicating a fourth bedroom had been approved. Local regulations do not allow an expansion due to the lot size. The Agent stated that the owner had come in for a meeting with staff, and reviewed the records held by the Town, and brought her own records, including plans. There was no paper trail showing approval of additional bedrooms, or units. Future use of the property would be single family until the new owners applied for the permits needed to create an additional residential unit. The Agent suggested the Board consider the variance request, and the request for the waiver of time. The original 4-bedroom plan had not been updated to reflect the results of the permitted number of bedrooms. The Chair expressed that she wanted the new design plan submitted that showed the 3-bedroom system. Mr. Coughanowr stated that the same variances would apply. Chair Tracy Rose did not want to approve the original 4-bedroom plan without seeing the bedroom count amended. Board member Jason Silva suggested conditioning approval based on the submittal of a 3-bedroom plan. Chair Tracy Rose was concerned about the liability to the Town if they approved the plan without the correct denotation. Board Member Brian Koll mentioned that the waiver of time request did not include the proposed time frame for the waiver, and there was a question as to whether the buyers or sellers were asking for the waiver of time. **Motion:** Board member Brian Koll made a motion to continue the matter until May 16, 2023; **Second:** Board member Helen Grimm; **Vote: 4-0-1; Chair Tracy Rose abstained from the vote.**

Change of Manager: 670 Shore Road, Pilgrim Colony Condo Association. Proposed new manager Jill Botway was on the call to discuss her role as the off-site manager. She described her background as an attorney, and their intended plan to sublet their unit to the new onsite manager

Terry McCumber, their function will be as co-managers. Chair Tracy Rose explained the role of off-site manager and there was discussion about the significance of an onsite manager. **Motion:** Board member Helen Grimm made a motion to approve the change of manager request; **Second:** Board member Brian Koll; **Vote: 5-0-0; the motion was unanimous.**

Change of Manager at 510 Shore Road, Sea Haven. There are 3 units at this location. RKM proposed as the off-site manager, however no one was present to represent the matter and it was tabled to the end of the meeting.

New Farmers Market Permit: Kohi Coffee Company, Owner James DeRosier. They have a licensed location in Provincetown where they produce the coffee and other products. All certifications and menu were included in the Board member's packets. They have sold their products at various events, although not the farmers markets. The protocol for dispensing the iced drinks was discussed, and the line distinguishing assembly versus preparation was discussed. Member Brian Koll asked how yogurt would be kept at proper temperature, and Mr. DeRosier responded that they maintain a cooler with ice on-site for temperature sensitive products.

Motion: Prefacing his motion as the one who was always in favor of more coffee and pastry, Vice Chair Jason Silva moved to approve the farmers market permit application for Kohi Coffee; **Second:** Board member Helen Grimm; **Vote: 5-0-0; the motion was unanimous.**

Public Hearing on Proposed amendments to Board of Health regulations. Both sections have been discussed at the previous Board of Health meeting, and the hearing was opened to invite public comment to the process.

Section V- transfer station rules and regulations, articles 2 ,7 – proposed changes would remove the category of 6-month transfer station permits, and “swap shop only” permits. These changes would be effective June 1. **Motion:** Board member Brian Koll moved to approve the proposed regulation change; **Second:** Vice Chair Jason Silva; **Vote: 5-0-0; the motion was unanimous.**

Tim Rose left the meeting.

Section VI-local septic regulations to supplement title 5 - proposed changes were discussed section by section. The Board discussed each section to ensure that grammatical cleanup, and formatting had been updated. There was discussion by the Board members about the intent of making changes to reduce nitrogen loading, when possible; sections where language was redundant were modified and content was clarified to make this section more readable. Revisions included clarifying when a reduced sampling schedule could be employed, this included 2 x year minimum for seasonal homes. **Motion:** Board Chair Tracey Rose moved to approve the proposed changes to Section 6_local septic regulations to supplement title 5, as presented in the packet and discussed including the change in article 12, section 3, to be sent to Town Counsel for review and a final vote at the next meeting; **Second:** Vice Chair Jason Silva; **Vote: 4-0-0; the motion was unanimous.**

Proposed Change of Manager at 510 Shore Road, Sea Haven. Representation did not join the meeting by this time, and the Board agreed to continue the discussion. location. **Motion: Board**

member Helen Grimm moved to continue the matter to May 16; Second: Board member Brian Koll. Vote: 4-0-0, the motion passed.

Report of the Chair- Tracey Rose reported to the Board about the Earth Day Celebration held by the Friends of the Village Pond, which was attended by members of the neighborhood who seemed very interested in the health of the Pond. She felt it was important to continue to work with people who have interest in specific topics such as the Friends group. She also reported on the Town meeting article votes. Approved was the study on the watershed at Pond Village, and funding for the wastewater management plan.

Health Agent's Report- The Health Agent reported out about the wastewater management planning process, which will be completed by the engineering firm GHD. GHD also works with Wellfleet and Eastham. Scott attends the meetings with us, and we are scheduling an on-site meeting with them to get a better understanding of the Town. The project is funded largely through ARPA funds, with a supplemental article at Town meeting. The planning process has been front loaded with immediate exploration with Provincetown of the feasibility of sending wastewater from Beach Point to the Provincetown Wastewater treatment plan. The discussions are currently underway. Simultaneously GHD will be developing a broad project scope for wastewater management for the entire town. The planning will likely shift to a targeted watershed management plan where our plan will intercept the trajectory of the new title 5 changes. The planning work will qualify the Town for SRF funding. SRF is the State Revolving Fund, administered by the DEP and offering low and zero interest loans for projects that will address nitrogen loading, and protect freshwater ponds.

Board member Jason Silva moved to adjourn the meeting; Second: Board member Brian Koll. Vote: 4-0-0, the motion passed

The meeting was adjourned at 6:21 P.M.

Minutes prepared by Emily Beebe