



AMENDED

Truro Board of Health

Tuesday October 3, 2023

Remote Meeting start at 4:30 PM

Executive Session starts at 5:30 PM

Truro Board of Health Regular Meeting

Remote Meeting start time is 4:30 PM

Remote Meeting Access Instructions This will be a remote meeting. Citizens in Truro can view the meeting on Channel 8 and on the homepage of the Town of Truro website on the "Truro TV Channel 8" button found under "Helpful Links". Once the meeting has started, click on the green "Watch" button in the upper right of the page. **To join the meeting by phone or to provide comment during the meeting, please call-in toll free at 1 309 205 3325 and enter the following Meeting ID when prompted: Meeting ID: 820 4967 1786** To join this Zoom meeting from your computer, tablet or smartphone <https://us02web.zoom.us/j/82049671786> Please note that there may be a slight delay between the meeting and the live-stream (and television broadcast). If you are watching the meeting and calling in, please lower the volume on your computer or television during public comment so that you may be heard clearly. We ask that you identify yourself when calling in; citizens may also provide public comment for this meeting by emailing the Health Agent at ebeebe@truro-ma.gov with your comments.

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. **Proposed change of on-site manager-** White Village Condominium, Pamela Beshold, new on-site Manager; Deborah Bonneru
2. **Local Variance Request:** 6 Katherine Road, Anne Marshall Trustee, The Anne E Marshall 1999 Revocable Trust
3. **Cesspool Upgrade program – Discussion about enforcement schedule and strategy**
4. **Proposed Stormwater Management bylaw- discussion and recommendation**

III. MINUTES

IV. REPORTS

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



Truro Board of Health Executive Session

Expected Start time is 5:30 PM

Executive Session with Town Counsel and Board of Health at approximately 5:30 PM will follow the normally scheduled Board of Health meeting. After the Board votes to enter executive session, individuals that are on the call and not invited to attend the executive session will need to leave the meeting. **Motion:** *the Chair Moves that the Board of Health enter into Executive Session, in accordance with the provisions of Massachusetts General Law, Chapter 30A, §21 (a) 3 to discuss strategy with respect to litigation if an open meeting may have a detrimental effect on the litigating position of the Board and the chair so declares, re: Delgizzi v. Town of Truro, Massachusetts Superior Court, C.A. No. 2172CV0049 and Town of Truro v. Delgizzi, Massachusetts Housing Court, C.A. No. 19H83CV00357CI; and to not reconvene in open session.*

PAID 148

TOWN OF TRURO

HEALTH DEPARTMENT
TOWN OF TRURO



Health Department
P.O. Box 2030, Truro, MA 02666
PH: 508-349-7004, Ext. 131 Fax: 508-349-5508
Email: ebeebe@truro-ma.gov or adavis@truro-ma.gov

SEP 05 2023

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APPLICATION TO NAME A MANAGER

This application is used for a Change of Manager, Add Co-Managers or to Name a Property Management Company as Manager with the Board of Health

Team Ins. 9/19/23

Section 1 - Business Information

Date: _____
Print Name of Applicant: HARRY PALMER
Business Name or DBA to be managed: White Village Condominium Assoc Number of Units: 16
Street Address of Business: 334 Shore Rd Business Email: _____
Mailing Address of Business: (Check if New Address) PO Box 830 North Truro, MA 02652

Section 2 - Manager Information

Name of Previous Manager: Martin Young unit 13
Grant LaPlant On-Site Manager Unit #: 9

Name of New Onsite Manager: Deborah Bonneau On-Site Manager Unit #: 2

Name of Property Management (10 Units or less): [Redacted]

Mailing Address of New Manager and/or Property Management Company: West Boylston, MA 01583
02652 Phone (24 hours/day): _____ Email: _____

Name of Co-Managers:
Harry Palmer Unit # 5 Phone (24hrs/day): [Redacted]
William LaPlant Unit # 9 Phone (24hrs/day): [Redacted]
Peter's Property Management Unit # OFF SITE Phone (24hrs/day): [Redacted]

I have read & understand the Board of Health Manager Regulation, Section III, Article 4. Signature of New Manager, Co-Managers or Contact Person for Property Management is required.

Harry Palmer SIGNATURE HARRY PALMER PRINT NAME 9/3/23 DATE
Martin Young SIGNATURE William LaPlant PRINT NAME 9/3/23 DATE
Ronnie Pinan SIGNATURE Laurie Ferrari PRINT NAME 9/5/23 DATE

Section 3 - **Office Use Only**

	Scheduled	Date	Fee	Paid
Team Inspection (If over 3yrs since last one)	<input checked="" type="checkbox"/>	<u>9/19/23</u>	\$45.00	<input checked="" type="checkbox"/>
Board of Health Hearing	<input checked="" type="checkbox"/>	<u>10/3/23</u>	\$75.00	<input checked="" type="checkbox"/>



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

PROFESSIONAL ENGINEERING, LAND SURVEYING & ENVIRONMENTAL SERVICES

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

September 21, 2023

JMO # 9509

Truro Board of Health
24 Town Hall Road
Truro, MA 02536

RE: **Board of Health Variance Request**
6 Katharine Road, Truro, MA
Map: 59 Parcel: 59

Dear Board Members,

On behalf of our clients, Alec and Anne Marshall, J.M. O'REILLY & ASSOCIATES, INC. is filing a request for Variance from Truro Board of Health Regulations for the proposed sewage system upgrade at the above referenced property. The property is currently served by cesspools.

The project proposes to replace the cesspools currently serving the existing 3-bedroom dwelling with a Title 5 sewage disposal system with NitROE-2KS wastewater treatment tank. The southerly portion of the lot is within a wetland resource area. As such, the following variance is being requested from Truro Board of Health Regulations:

VARIANCE: Truro Board of Health Regulations, Section VI, Article 9:

Variance requested from the above referenced regulation, which requires 150' setback from Soil Absorption System to Wetlands. Setback distance of 105' is provided, 45' variance is requested. NitROE-2KS I/A treatment unit provided.

No Title 5 variances are requested. No additions, changes in habitable space or additional bedrooms are proposed. A representative from our office will be present at the October 3, 2023 public hearing so as to further review the proposal and answer any questions the Board may have.

Very truly yours,
J.M. O'REILLY & ASSOCIATES, INC.

Robert Reedy, P.E.
Project Engineer

Cc: Client
John M. O'Reilly, PE, PLS

Encl: Variance Application Package
RFR/ak

HEALTH DEPARTMENT
TOWN OF TRURO

SEP 22 2023

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Fee: \$75.00



APPLICATION FOR BOARD OF HEALTH VARIANCES

Date: 9/21/2023

Property Owner's Name: Anne Marshall, Trustee, The Anne E. Marshall 1999 Revocable Trust

Mailing Address: P.O. Box 360, Truro, MA 02666

Address of Property: 6 Katharine Road

Map and Parcel Number: Map # 59 Parcel # 59

Design Engineer/Sanitarian Robert Reedy, P.E.

Firm/Company Name: J.M. O'Reilly & Associates, Inc. Phone #: (508) 896-6601

Address: 1573 Main Street, 2nd Floor, Brewster, MA 02631

Please check type of variance requested:

Title 5 Variance Request: Section n/a

Board of Health Variance Request: Section/Article Section VI, Article 9: Setbacks

[Signature]
Signature (Representative)

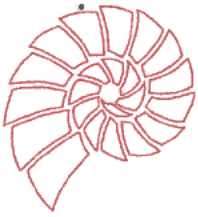
9/21/2023
Date

(for owner)
Signature (Property Owner)

HEALTH DEPARTMENT
TOWN OF TRURO

SEP 22 2023

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

PROFESSIONAL ENGINEERING, LAND SURVEYING & ENVIRONMENTAL SERVICES

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

TO: Abutters

FROM: J. M. O'REILLY & ASSOCIATES, INC.
1573 MAIN STREET
BREWSTER, MA 02631

RE: 6 Katharine Road, Truro, MA
Board of Health Variance Request

DATE: September 21, 2023

On behalf of our clients, Alec and Anne Marshall, J. M. O'REILLY & ASSOCIATES, INC. is requesting the Truro Board of Health to review and grant the following Variance from the Truro Board of Health regulations for the proposed sewage system upgrade at the above referenced property.

The following is the variance being requested from the Truro Board of Health Regulations:

VARIANCE: Truro Board of Health Regulations, Section VI, Article 9:

Variance requested from the above referenced regulation, which requires 150' setback from Soil Absorption System to Wetlands. Setback distance of 105' is provided, 45' variance is requested. NitROE-2KS I/A treatment unit provided.

A meeting has been scheduled with the Board of Health at Truro Town Hall on October 3, 2023 at 4:30 pm to discuss the proposal in greater detail. If you plan to attend, please contact the Town or visit the Truro Health Department webpage for further details.

HEALTH DEPARTMENT
TOWN OF TRURO

SEP 22 2023

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TRURO ASSESSORS OFFICE
PO Box 2012 Truro, MA 02666
Telephone: (508) 214-0921
Fax: (508) 349-5506

Date: September 19, 2023

To: Alyson Wright, JM O'Reilly & Associates)

From: Assessors Department

Certified Abutters List: 6 Katharine Road (Map 59 Parcel 59)

Board of Health

Attached is a combined list of abutters for 6 Katharine Road (Map 59 Parcel 59).
The current owner is the 6 Katharine Road Realty Trust.

The names and addresses of the abutters are as of September 15, 2023 according to the most recent documents received from the Barnstable County Registry of Deeds.

Certified by: _____

Laura Geiges
Assistant Assessor / Data Collector

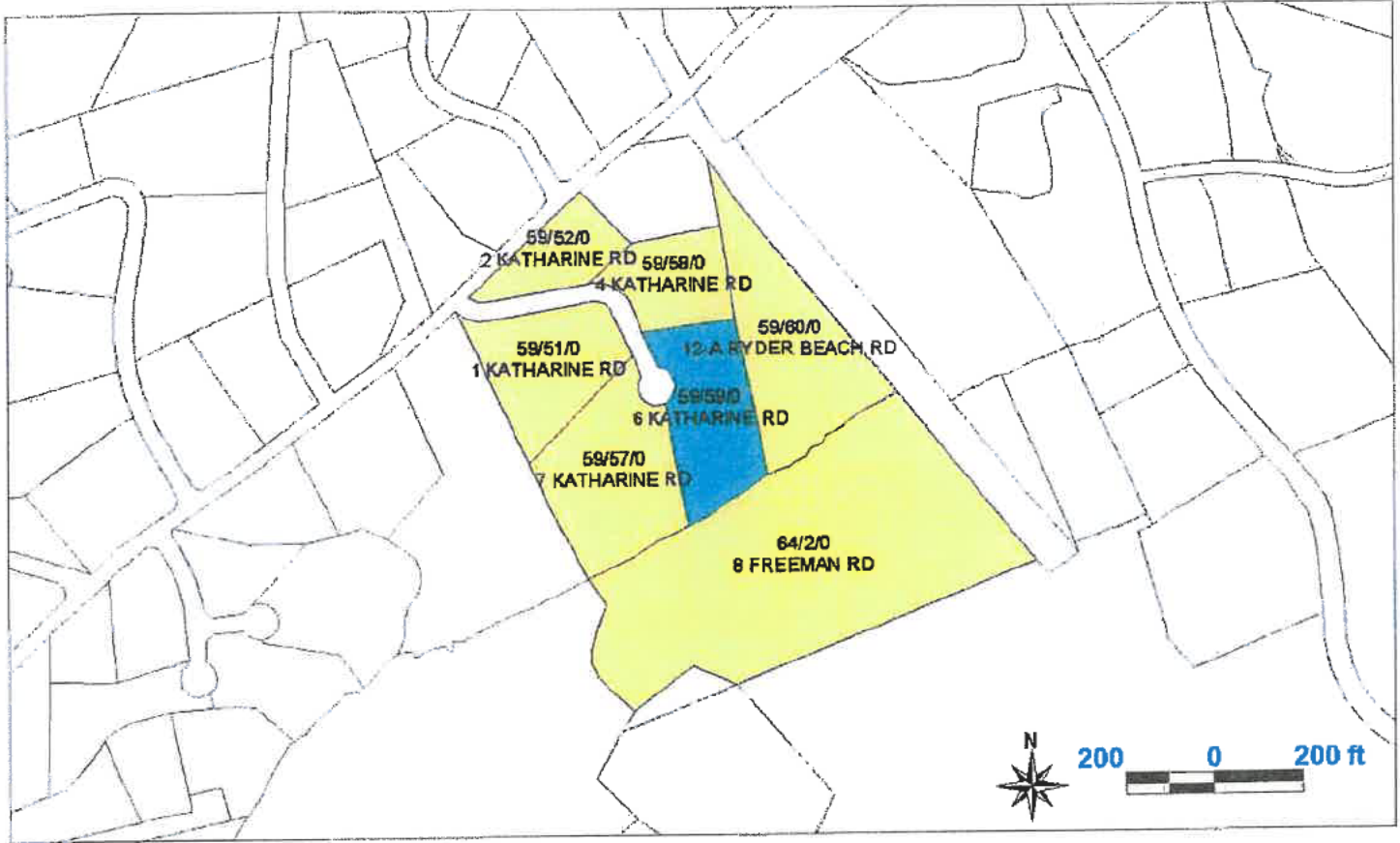
HEALTH DEPARTMENT
TOWN OF TRURO

SEP 22 2023

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TOWN OF TRURO, MA
BOARD OF ASSESSORS
P.O. BOX 2012, TRURO MA 02666

Custom Abutters List



Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
3504	59-51-0-R	KROLL JOHN J & NANCY L	1 KATHARINE RD	778 F SOUTH FRONT ST	PHILADELPHIA	PA	19147
3505	59-52-0-R	CARBOY ANDREW J & MARIAN J	2 KATHARINE RD	459 RIDGEWOOD RD	MAPLEWOOD	NJ	07040
3509	59-57-0-R	MCCONNELL JANE A & THOMAS M	7 KATHARINE RD	787 BEACOM LN	MERION STATION	PA	19066
3510	59-58-0-R	MARSHALL JOHN & JOAN LIFE EST RMNDR: MARSHALL FAM IRREV TRST	4 KATHARINE RD	PO BOX 832	TRURO	MA	02666
3512	59-60-0-E	TRURO CONSERVATION TRUST TRS: BETSEY BROWN ET AL	12-A RYDER BEACH RD	PO BOX 327	NO TRURO	MA	02652-0327
3642	64-2-0-R	FREEMAN FARM REALTY TRUST ETAL TRS: MADDEN LAUREN F	8 FREEMAN RD	PO BOX 426	TRURO	MA	02666-0426

HEALTH DEPARTMENT
TOWN OF TRURO

SEP 22 2023

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LG 9/19/23

59-51-0-R

KROLL JOHN J & NANCY L
778 F SOUTH FRONT ST
PHILADELPHIA, PA 19147

59-52-0-R

CARBOY ANDREW J & MARIAN J
459 RIDGEWOOD RD
MAPLEWOOD, NJ 07040

59-57-0-R

MCCONNELL JANE A & THOMAS M
787 BEACOM LN
MERION STATION, PA 19066

59-58-0-R

MARSHALL JOHN & JOAN LIFE EST
RMNDR: MARSHALL FAM IRREV TRST
PO BOX 832
TRURO, MA 02666

59-60-0-E

TRURO CONSERVATION TRUST
TRS: BETSEY BROWN ET AL
PO BOX 327
NO TRURO, MA 02652-0327

64-2-0-R

FREEMAN FARM REALTY TRUST ETAL
TRS: MADDEN LAUREN F
PO BOX 426
TRURO, MA 02666-0426

HEALTH DEPARTMENT
TOWN OF TRURO

SEP 22 2023

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10 9/19/23

RESIDENTIAL NITROGEN LOADING CALCULATIONS - PROPOSED (3 BR + NitROE)

Home: 330 GPD
 Impervious Surfaces: Roof Area: 1,300 ft² Paving Area: 0 ft²
 Lot Size: 73,181 ft²
 Natural Area: 71,881 ft² Lawn Area: - ft²
 Title V Flow:

Job - #9509

WASTEWATER

Title V

$$\underline{3} \text{ bedrooms} \times \frac{110}{\text{bedroom}} \times \frac{3.785}{\text{gal}} = \underline{1,249.1} \text{ L/d} \times 11 \frac{\text{mg}}{\text{L}} = \underline{13,739.6} \text{ mg/d}$$

Actual (assume 2.5 people/unit average occupancy within the town)

$$\underline{3} \text{ bedrooms} \times \frac{110}{\text{bedroom}} \times \frac{3.785}{\text{gal}} \times \frac{2.5}{6} = \underline{520.4} \text{ L/d} \times 11 \frac{\text{mg}}{\text{L}} = \underline{5,724.8} \text{ mg/d}$$

IMPERVIOUS SURFACES

Roof

$$\underline{1,300} \times \frac{40 \text{ in}}{\text{yr}} \times \frac{\text{ft}}{12 \text{ in}} \times \frac{28.32 \text{ L}}{\text{ft}^3} \times \frac{1 \text{ yr}}{365 \text{ d}} = \underline{336.2} \text{ L/d} \times 0.75 \frac{\text{mg}}{\text{L}} = \underline{252.2} \text{ mg/d}$$

Paving

$$\underline{0} \times \frac{40 \text{ in}}{\text{yr}} \times \frac{\text{ft}}{12 \text{ in}} \times \frac{28.32 \text{ L}}{\text{ft}^3} \times \frac{1 \text{ yr}}{365 \text{ d}} = \underline{0.0} \text{ L/d} \times 1.5 \frac{\text{mg}}{\text{L}} = \underline{0.0} \text{ mg/d}$$

LAWN

$$\underline{-} \times \frac{3 \text{ lbs}}{1,000 \text{ ft}^2/\text{yr}} \times \frac{1 \text{ yr}}{365 \text{ d}} \times \frac{454,000}{\text{lb}} \times 0.25 = \underline{0.0} \text{ mg/d}$$

NATURAL

$$73,181 - 1,300 = 71,881 \text{ ft}^2$$

$$\underline{71,881} \times \frac{1.33}{\text{yr}} \times \frac{28.32 \text{ L}}{\text{ft}^3} \times \frac{1 \text{ yr}}{365 \text{ d}} = \underline{7,417.6} \text{ L/d}$$

HEALTH DEPARTMENT
TOWN OF TRURO

SEP 22 2023

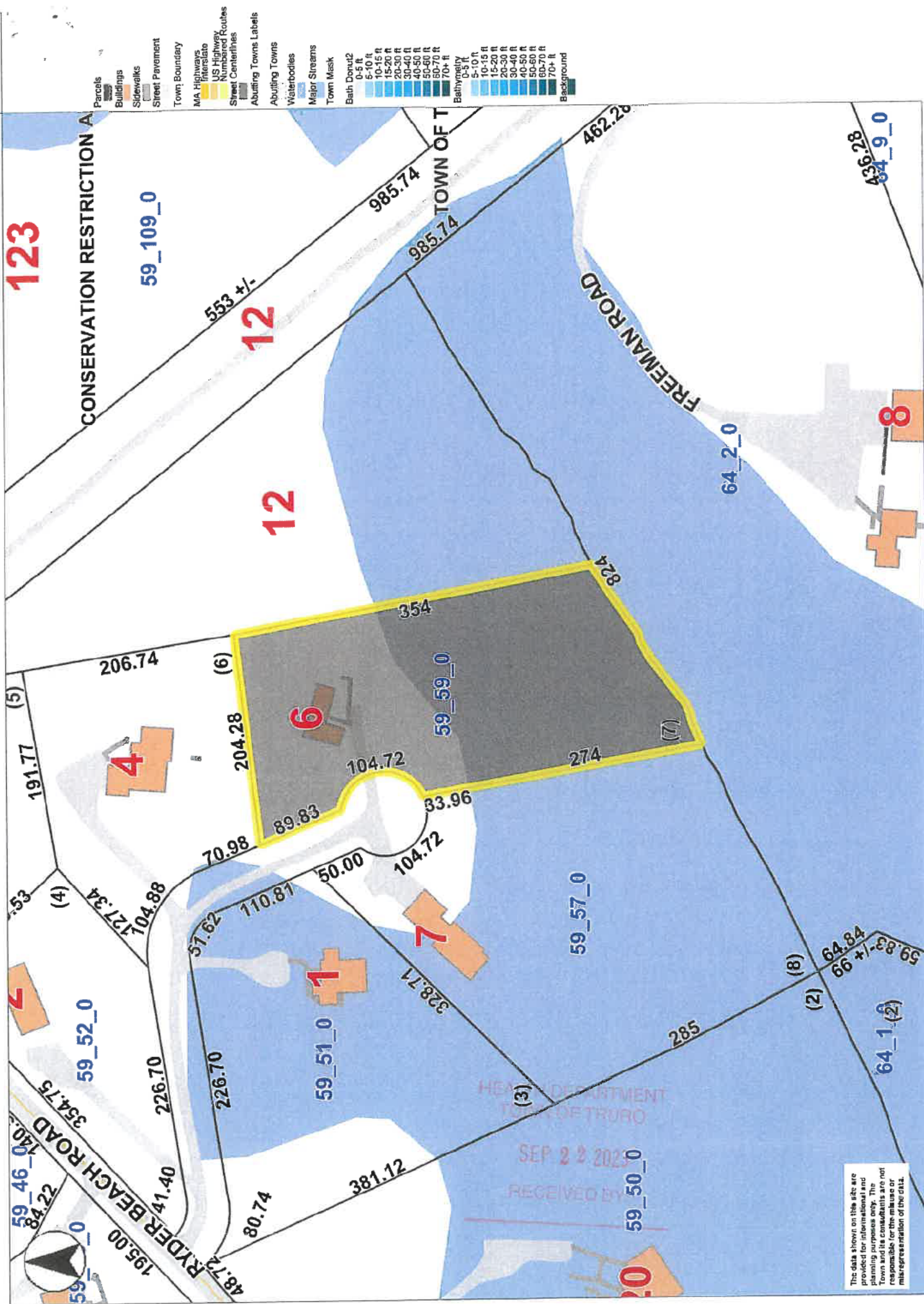
RECEIVED BY:

SUMMARY

Title V Flow	$\frac{13,739.6}{1,249.1}$	+	$\frac{252.2}{336.2}$	+	$\frac{0.0}{0.0}$	+	$\frac{0.0}{7,417.6} \frac{\text{mg}}{\text{L}}$	=	$\frac{13,991.7}{9,002.9} \frac{\text{mg}}{\text{L}}$	=	1.55 ppm
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Actual	$\frac{5,724.8}{520.4}$	+	$\frac{252.2}{336.2}$	+	$\frac{0.0}{0.0}$	+	$\frac{0.0}{7,417.6} \frac{\text{mg}}{\text{L}}$	=	$\frac{5,977.0}{8,274.3} \frac{\text{mg}}{\text{L}}$	=	0.72 ppm
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Final Calculation = 1.14 ppm

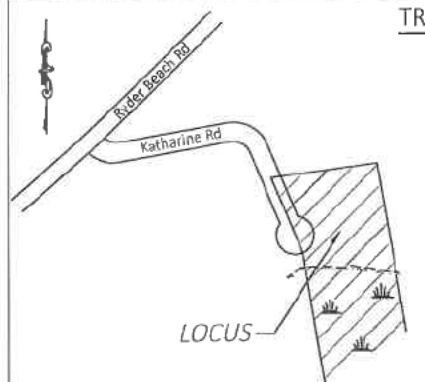


MapsOnline - Truro, MA

Printed on 08/22/2023 at 10:15 AM



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KEY MAP
SCALE 1"=400'

LAND COURT PLAN 26480A
CERTIFICATE 224275
ASSESSORS' MAP 59 PARCEL 59

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- WATER SERVICE LINE
- OVERHEAD UTILITY SERVICE
- ELECTRIC SERVICE LINE
- COMMUNICATIONS SERVICE LINE
- TEST HOLE / BORING LOCATION
- SEPTIC TANK
- DISTRIBUTION BOX
- SOIL ABSORPTION SYSTEM
- NiTRO2KS TREATMENT TANK
- UTILITY POLE
- CATCH BASIN
- FIRE HYDRANT
- WELL
- LIGHTPOST
- CONCRETE BOUND, FOUND
- LIMIT OF WORK
- FENCE
- EDGE OF CLEARING

SHEET 1 OF 2

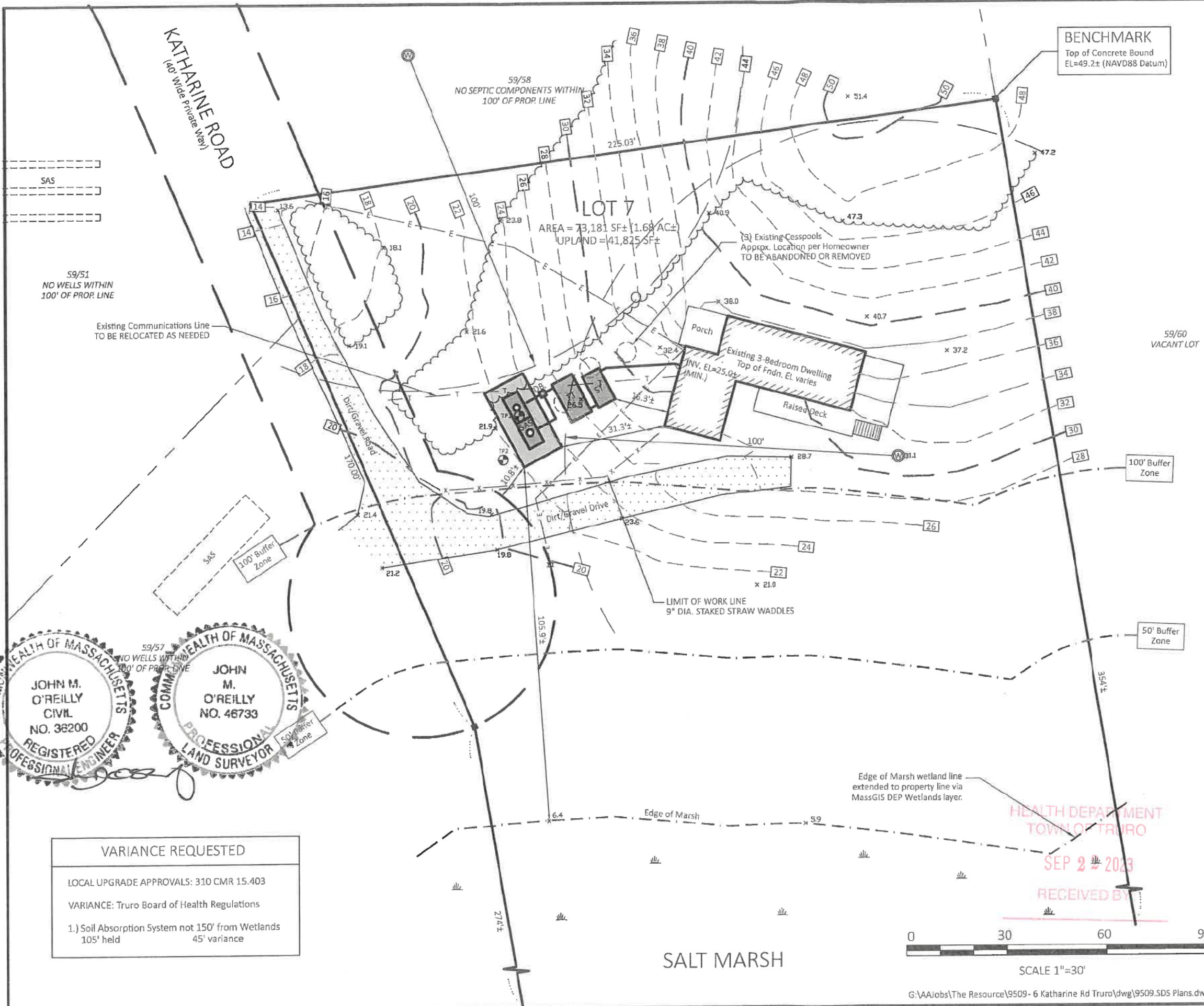
The 6 Katharine Road Realty Trust
c/o Jean Stanley, Director of Housing Rehab Programs, The Resource Inc.
23 White's Path Suite G2, South Yarmouth, MA 02664

SITE PLAN
6 KATHARINE ROAD, TRURO, MA

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

1673 Main Street - Route 6A
P.O. Box 1778
(508)896-8801 Office Brewster, MA 02631 (508)896-8602 Fax

DATE:	SCALE:	BY:	CHECK:	JOB NUMBER:
9/19/2023	As Noted	RFR	JMO	JMO-9509



BENCHMARK
Top of Concrete Bound
EL=49.2± (NAVD88 Datum)

LOT 7
AREA = 73,181 SF ± [1.68 AC ±]
UPLAND = 41,825 SF ±

SALT MARSH



HEALTH DEPARTMENT
TOWN OF TRURO
SEP 20 2023
RECEIVED BY

JOHN M. O'REILLY
CIVIL
NO. 38200
REGISTERED PROFESSIONAL ENGINEER

JOHN M. O'REILLY
NO. 46733
PROFESSIONAL LAND SURVEYOR

VARIANCE REQUESTED

LOCAL UPGRADE APPROVALS: 310 CMR 15.403

VARIANCE: Truro Board of Health Regulations

1.) Soil Absorption System not 150' from Wetlands
105' held 45' variance

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 AREAS.
- 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.

KLEANTU NitROE 2KS WWTS NOTES:

- 1.) ALL MEASUREMENTS FROM OUTSIDE EDGE OF TANK TOP.
- 2.) CONFIRM ALL HOLE LOCATIONS PRIOR TO INSTALLATION.
- 3.) NITROE 2KS TANK TOP TO HAVE FOUR-24" AND MULTIPLE 4" HOLES WITH RISERS AND COVERS FOR MAINTENANCE AND SAMPLING.
- 4.) FOR THE 24" HOLES, PROVIDE 24" DIA. ADS PIPE (CORRUGATED) WITH POLYLOK (OR EQUIVALENT) COVER (OR EQUIVALENT CONCRETE RISER AND COVER) TO 6" BELOW GROUND SURFACE AND SECURE TO TANK TOP.
- 5.) INSTALL 4" DIA. PIPE (3" BELOW GROUND SURFACE) WITH FERNCO RUBBER CAP. INSTALL A 6" ROUND VALVE BOX AND COVER TO BE FLUSH WITH THE GROUND SURFACE.
- 6.) HOLES H5 THROUGH H10 ARE 4" DIAMETER HOLES FOR AERATION TUBING AND PULL CORDS. INSTALL 4" DIA. PIPE (6" BELOW GROUND SURFACE) WITH PVC CAP.
- 7.) FOR EXISTING SEPTIC TANK, PROVIDE 2" DIA. SAMPLING PIPE THAT IS CEMENTED OR ANCHORED TO THE TANK TOP AND EXTEND 2" BELOW THE TANK TOP AND BE POSITIONED 6-12" FROM THE EDGE OF THE OUTLET END OF THE SEPTIC TANK OR IN THE SEPTIC TANK CONCRETE OUTLET COVER, ON THE TOP SIDE OF THE SEPTIC TANK, THE 2" DIA. SAMPLING PIPE SHOULD EXTEND TO 2" BELOW THE GROUND SURFACE AND HAVE A 6" DIA. PLASTIC ROUND BOX AND COVER AT GROUND SURFACE

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. REQUIRED

SEPTIC TANK CAPACITY PROVIDED:
1500 GALLON SEPTIC TANK (MIN. ALLOWED)

LEACHING CAPACITY PROVIDED:
ONE (1) 25.0' X 12.83' X 2.0' LEACHING CHAMBER CAN LEACH:
 $V_L = [(25.0 \times 12.83) + (25.0 \times 2.0)2 + (12.83 \times 2.0)2] \times 0.74 \text{ GPD/SF} = 349.28 \text{ GPD}$
349 GPD > 330 GPD REQUIRED

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

INSTALL:
ONE (1) - 1500 GALLON SEPTIC TANK (H10)
ONE (1) - 2,000 GALLON NitROE TREATMENT TANK MODEL N-ASST20M-H10 (H10) BY ACME SHOREY PRECAST WITH NitROE 2KS WWTS BY KLEANTU
ONE (1) - 120-VOLT/20-AMP GFI ELECTRICAL OUTLET BOX
ONE (1) - NitROE 2KS WWTS EXTERNAL AIR PUMP & REMOTE MONITORING TRANS.
ONE (1) - 3 OUTLET DISTRIBUTION BOX (H-20 RATED)
TWO (2) - 500 GALLON LEACH CHAMBERS WITH 4" OF STONE ALL AROUND
EIGHT (8) - 24" RISERS, BUILT UP TO WITHIN 6" FINISH GRADE
THREE (3) - 4" PVC PIPES WITH RUBBER CAP & 6" VALVE BOX COVERS TO GRADE

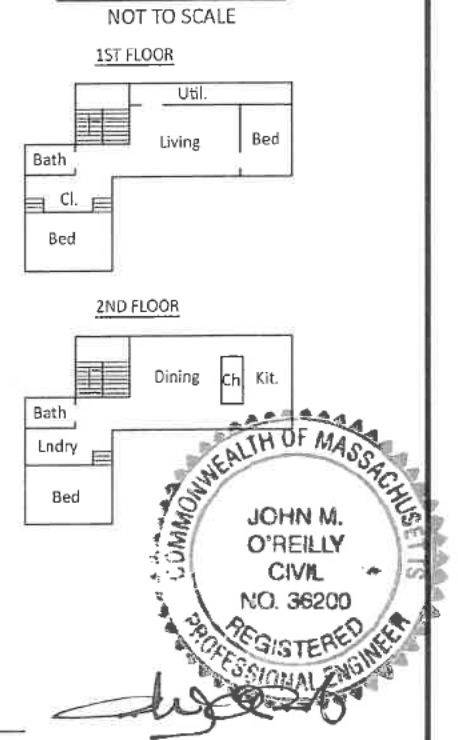
SOIL TEST LOGS:

TEST HOLE 1: EL=23.4±						
DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER	
0-15	A	Fine Loamy Sand	10YR3/2	NONE		
15-22	B	Loamy Sand	10YR6/8	NONE		
22-138	C1	Coarse Sand	10YR7/6	NONE	PERC @ 48"; <2 MIN/IN	

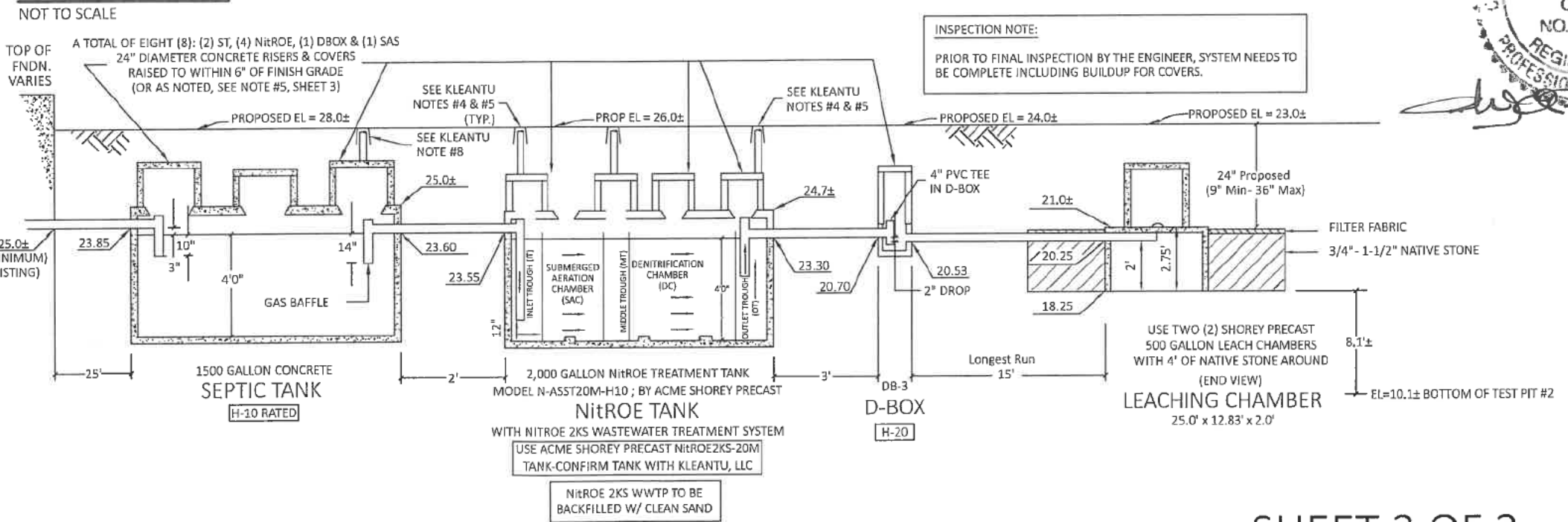
TEST HOLE 2: EL=21.6±						
DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER	
0-15	A	Fine Loamy Sand	10YR3/2	NONE		
15-24	B	Loamy Sand	10YR6/8	NONE		
24-138	C1	Coarse Sand	10YR7/6	NONE		

DATE OF TESTING: 9/12/2023
PERCOLATION RATE: LESS THAN 2 MIN/INCH IN 'C1' LAYER.
WITNESSED BY: ROBERT REEDY, J.M. O'REILLY & ASSOCIATES, INC.
ARZANA DAVIS, TRURO HEALTH DEPARTMENT
NO WATER ENCOUNTERED
USE A LOADING RATE OF 0.74 GPD/SF FOR SIZING OF SOIL ABSORPTION SYSTEM.

FLOOR PLAN

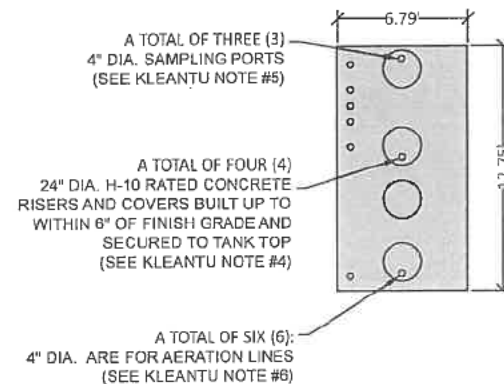


FLOW PROFILE:



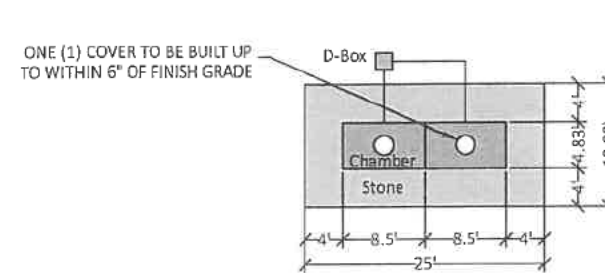
NitROE 2KS WWTS TANK DETAIL

SCALE: 1" = 10'



SAS DETAIL:

SCALE: 1" = 20'



SHEET 2 OF 2

The 6 Katharine Road Realty Trust
c/o Jean Stanley, Director of Housing Rehab Programs, The Resource Inc.
23 White's Path Suite G2, South Yarmouth, MA 02664

SEWAGE DISPOSAL SYSTEM DESIGN & NOTES
6 KATHARINE ROAD, TRURO, MA

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

1573 Main Street - Route 6A
P.O. Box 1773
(508)896-8601 Office Brewster, MA 02631 (508)896-8602 Fax

DATE:	SCALE:	BY:	CHECK:	JOB NUMBER:
9/19/2023	As Noted	FRF	JMO	JMO-9509

GENERAL BYLAW ARTICLES**Article X: Amend General Bylaws to Add New Chapter IX Stormwater Management by Drainage, Erosion and Sediment Control**

To see if the Town will vote to amend the General Bylaws of the Town of Truro by adding new Chapter IX Stormwater Management by Drainage, Erosion and Sediment Control and enumerating the subsequent Chapters of the Bylaw accordingly by adding new language as follows (new language shown **bold underline**):

CHAPTER IX STORMWATER MANAGEMENT by DRAINAGE, EROSION AND SEDIMENT CONTROL

§ 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. The Select Board may also enact regulations to carry out the intent and the purpose of this bylaw, including establishing an approval process for any activities subject to this bylaw, setting fees, and designating a Town board or officials to administer and enforce this bylaw.

§ 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 through the soil 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 such as a driveway.

Storm, 50-year: refers to a storm that has a 2% chance of occurring on any given year and will produce 6.60 inches of rain in a certain area within a 24-hour period.

Stormwater: surface water that collects 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 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

Violation of this bylaw shall be punishable by a fine as established in Appendix A. Each day a violation exists shall be deemed a separate offense, unless substantial progress or unforeseen delays are demonstrated by the owner/applicant. Pursuant to MGL c. 1 §1.1.4 such fines may be enforced either through a criminal complaint or through the non-criminal disposition process pursuant to MGL c. 40, §21D.

and further to amend the General Bylaws by inserting, in Appendix A, the following terms in a new row corresponding to the above Section 7, Stormwater management by drainage, erosion and sediment control Bylaw:

<u>Chapter & Section</u>	<u>Subject</u>	<u>Fine \$</u>	<u>Enforcing Authority</u>
<u>x-x-8</u>	<u>Stormwater mgmt</u>	<u>\$300 day/vltn</u>	<u>Bldg Com., H&Cons Agent, DPW Dir</u>

Requested by the Health & Conservation Agent and Town Planner

Explanation: The proposed Stormwater Management by Drainage, Erosion and Sediment Control bylaw will promote the stewardship of our groundwater resources, by introducing the citizenry of Truro to the importance of controlling stormwater on their own property. The bylaw requires property owners to meet the performance standards for stormwater by keeping rainfall from washing from their roofs and driveways onto private or public ways.

Board of Health Recommendation			
Select Board Recommendation			

Minutes of the Truro Board of Health, Tuesday September 5, 2023

This was a remote meeting.

Board members in attendance:

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

The meeting was called to order at 4:35 PM by the Chair, who described the remote meeting procedures and the process for public participation.

PUBLIC COMMENT There was no public comment.

Temporary Food Service Permit: Truro Treasures, Meghan O'Leary

Megan O'Leary represented the application submitted for a temporary food service permit. Truro Treasures, will be held on September 16-17, 2023, and the application specifies serving food at this annual event, the same food offerings as in previous year are proposed. The Agent has discussed the ServSafe requirements for this event with Meghan, as well as time/temperature control. The Chair asked that the names of the ServSafe trained employees be added to the permit. Board member Brian Koll asked about the hot holding section of the application. The Agent responded that she would fill that section out with the applicant.

Motion: Board member Brian Koll moved to approve the Temporary Food Service Permit; Second: Board member Jason Silva; Vote: 5-0; the motion carried.

Local Variance Request for 34 Sandpiper Road, Ave Rosenthal

John Schnaible represented the variance request, and explained that the septic system was in failure when inspected last year in preparation for sale. They are requesting a variance to the wetland setbacks and are proposing to mitigate this variance by use of a MicroFAST I/A system. There is no increase in flow proposed with the bedroom count remaining at four. Chair Tracey Rose reminded the Board remember the standards of review that is asked of them when reviewing a site plan with a variance request. The Board discussed reducing nitrogen loading by conditioning their approval. **Motion: Board member Jason Silva moved to approve the variances as requested with the condition that nitrogen loading shall not be increased by the installation of a lawn or any other work that would increase nitrogen loading; Second: Board member Brian Koll; Vote: 4-0-1 with Chair Tracey Rose abstaining; the motion carried.**

Local Variance Request for 19 Knowles Heights Road, E. Hope MacEwen Trust

Jason Ellis represented request. He described the lot and the 29-foot variance from the wetland that is being requested. They are proposing to install an Advantex I/A system. The Health Agent added that the proposed project meets the standard of review. Alternate Candida Monteith was curious why the system wasn't moved farther back on the property. Jason Ellis explained that the 100-foot well set back takes precedence in determining septic locations. **Motion: Board member Jason Silva moved to approve the variance as requested with the condition that nitrogen loading shall not be increased by the installation of a lawn or any work that would increase nitrogen loading. Second: Helen Grimm. Vote: 5-0; the motion carried.**

Local Variance Request for 5 Valentina Way, Estate of Marguerite Yannety

Laura Schofield represented the local variance request and explained that the homeowners have decided to upgrade now to an enhanced I/A system rather than pushing it off until a regulation change requires it. These changes are reflected in the amended plan. There was brief discussion about runoff from the upland area of the property into the pond. Laura Schofield described the land restoration and stabilization plan that would be implemented after the system was installed. The Health Agent reminded the Board of the abutter's letters that were submitted into the record.

Motion: Board member Jason Silva moved to approve the variances as requested.; Second: Board member Brian Koll.; Vote: 5-0; the motion carried.

Local Upgrade Approval& Local Variance Request for 7 Amity Lane, Irene Selver.

Laura Schofield represented the local variance request. The homeowners are asking to upgrade now to a conventional Title 5 system but to leave room in the design to add enhanced I/A when regulations require it. The variances were explained and include the request for temporary relief from installing I/A. Laura Schofield also explained that the homeowner is amenable to a deed restriction limiting the dwelling to seasonal use only. Chair Tracey Rose asked whether the property was for sale. Laura Schofield answered that the property is a family property that will not be up for sale any time soon. Board member Jason Silva added that the cesspool upgrade proposal provides improvement to the area.

Motion: Board member Jason Silva moved to approve the variances as requested with the following conditions: No additional lawn area will be created; A deed restriction will be recorded stating that the system will be updated to I/A upon change to year-round use, deed transfer, or when required by regulation.; Second: Board member Helen Grimm; Vote: 5-0; the motion carried.

Local Variance Requests: 1 Mill Pond Road, owner Mill Pond Road Investment Trust

Bob Rego, the engineer for the project, described the changes to the plan since the last meeting. The bedroom count for the proposed structure is now clearly three , a Nitroe enhanced I/A system is included in the design. **Motion: Board member Helen Grimm moved to approve the variances as requested with the condition that no lawn shall be established on the property; Second: Board member Brian Koll; vote: 4-0-1 with Chair Tracey Rose abstaining; the motion carried.**

Discussion on Occupancy and Rental Registration Violations at 522 Shore Road

Eric Shapiro and Priscilla Silva were on the call. The Health Agent reviewed the violations that were reported, including over-occupancy of two units and a lack of rental certificates by numerous condominium owners who rented their property. There had been some misunderstandings, but Trustee Eric Shapiro explained that all unit owners impacted by the 2012 variance were contacted and all unit owners have confirmed compliance. Priscilla Silva explained that all unit owners have been informed that they must comply with town rental regulations. Thirteen of the units do not rent at all and the other 16 have all completed the rental registration process. The Board thanked Eric Shapiro and Priscilla Silva for their prompt responses.

Board Member Brian Koll and Alternate Candida Monteith left the meeting at 6:00 pm.

Discussion on proposed Administrative Consent Order for 398 Shore Road, Mike and Judy Powers

The Health Agent briefly described the purpose of issuing Administrative Consent Orders, and the status of these discussions. The Board was presented with a draft ACO and Mike and Judy Powers were on the call to discuss the matter with the Board. The Health Agent described the document as a “bridge” while the feasibility of a sewer extension into Truro’s Beach point area is determined. The Town of Provincetown and Truro will need to discuss the escrow amounts and where the money will be held. Chair Tracey Rose thanked the Powers. The Powers were concerned with the timing of the process and offered to submit interim inspection reports; they were concerned about evolving nitrogen loading regulations and want to avoid additional engineering expenses. Judy Powers added that the property is seasonal. Board member Jason Silva added that the financials should stay in Truro to simplify things. Mike Powers asked about expiration dates for their variances that have already been granted. The Health Agent will be in contact with the Powers and Town Counsel to answer some of their questions. The Powers would like some written documentation about the December 31, 2023, deadline for upgrading their cesspool and how the ACO process impacts that. The Chair and the Health Agent agreed to continue the discussion to better assist the Powers in officially filing a variance for the Board to review.

Minutes: August 1, 2023.

Motion: Chair Tracey Rose moved to approve the August 1 minutes as amended; **Second:** Board member Jason Silva; **Vote:** 3-0; the motion carried

Report of the Chair-

The Chair had no report.

Health Agent's Report -

The Health Agent reported that:

- Flu Shot clinic is on Tuesday September 26, 2023, from 2:00 PM – 4:00 PM at the Community Center.
- Council on Aging has a Health Fair scheduled for October 26, 2023.
- There was a discussion about where in Town Nalox boxes should be placed, and Narcan training.
- In Eastham, West Nile Virus positive mosquitos have been detected in the Fort Hill Area.

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

The meeting was adjourned at 6:31 P.M.

Respectfully submitted by Nina Richey.