



# Truro Board of Health

Tuesday August 15, 2023

Remote Meeting- 4:30 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

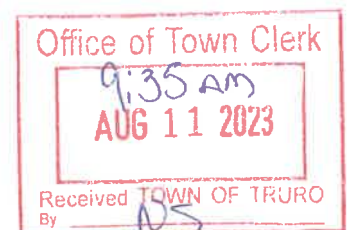
- 1. Local Upgrade Approval - Variance Request:** 25 South Highland Road (40/169) Town of Truro- request for approval of nitrogen aggregate
- 2. Local Variance Request:** 5 Valentina Way, Estate of Marguerite Yannetty (continued from the 8/1/2023 meeting)
- 3. Local Upgrade Approval & Local Variance Request:** 7 Amity Lane, Irene Selver (continued from the 8/1/2023 meeting)
- 4. Local Upgrade Approval & Local Variance Request:** 38 Toms Hill Road, Tina Ryman et al (continued from the 8/1/2023 meeting)
- 5. Local Variance Requests:** 1 Mill Pond Road, Mill Pond Road Investment Trust (continued from the 8/1/2023 meeting)
- 6. 97 Castle Road – discussion on CP upgrade**
- 7. ACO Sample Discussion and pending locations for ACO**

## III. AUGUST Water Resources Report

## IV. MINUTES- July 18

## V. REPORTS

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





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

**To:** Truro Board of Health  
**From:** Emily Beebe, Health & Conservation Agent  
**Date:** August 14, 2023  
**Re:** August 15 meeting: septic upgrades- review notes

### **25 South Highland Road, Town of Truro (40/169) -Approval of Nitrogen Aggregate**

This project includes new construction of a septic system to serve 2 structures being relocated to this property. This is a  $\frac{3}{4}$ -acre parcel located in the Zone 2 of the North Unionfield well. There are no wetland resources in the vicinity. This Town-owned parcel abuts the former "burn-dump", which has been decommissioned and capped. The engineer of the project is Weston and Sampson. They have designed a 5-bedroom system that includes I/A treatment (Advantex AI-235) and seek approval to further mitigate the nitrogen load by using the available area of the abutting property in the form of Nitrogen aggregate credit land. The available (un-used) area of the abutting Town owned parcel will be designated as nitrogen credit land to meet the nitrogen loading standards of title 5.

The italicized text below was taken from "GUIDELINES FOR TITLE 5 AGGREGATION OF FLOWS AND NITROGEN LOADING 310 CMR 15.216"

*Title 5 of the State Environmental Code, 310 CMR 15.000, imposes a nitrogen loading limitation of 440 gallons per day (gpd) per acre design flow for systems serving new construction in nitrogen sensitive areas and for new residential construction where the use of both on-site systems and on-site drinking water supply wells are proposed. Under the provision for "Aggregate Determinations of Flows and Nitrogen Loadings," 310 CMR 15.216, the nitrogen loading limitation may be calculated in the aggregate through a Community Aggregation Plan, or a site-specific, Facility Aggregation Plan.*

*Both the facility and the credit land must be restricted in perpetuity through either an appropriate conservation restriction or a nitrogen loading restriction and easement.*

- *For a facility located in a Zone II, the Board of Health or the Department may require an assessment using a DEP Nitrogen Loading Assessment for projects that could potentially result in impacts at the public supply well.*
- *A Facility Aggregation Plan addresses nitrogen loading on a facility-specific basis and uses non-facility credit land. The plan must be approved by the Approving Authority.*
- *Nitrogen loading deed restrictions, in perpetuity, are required for both the facility land and credit land.*

*Under the Facility Aggregation Plan, the applicant proposes to meet the 440 gpd per acre equivalency standard by establishing nitrogen credit on non-facility land with the consent of the owner of such land. The applicant must demonstrate how it will comply with the nitrogen standard(s) and include proposed restriction documents limiting use of both the facility land and non-facility credit land. The restrictions must be either a conservation restriction or a nitrogen loading restriction and easement. Such plans must be approved by the Approving Authority (TBoH).*

The property has been rigorously evaluated for any environmental impacts from the abutting Town-owned parcel, (the former "burn dump") including water testing. No environmental issues have been identified.

### **5 Valentina Way , Estate of Marguerite Yannetty (60/23): Local Variance Request**

***(revised notes are italicized)***

This upgrade from a cesspool will serve an existing 3-Bedroom dwelling on a 30,056 sf parcel.

- The project includes re-location of the existing well from the southeast side of the property to the northeast side, in order to achieve the required separation between the well and the proposed location of the new SAS (soil absorption system).
- It appears that GW flow is toward the southwest, and the arrangement of the locus well and SAS is suitable. There are no wells in this area downstream of the proposed SAS.
- There are no title 5 variances, however, there is a local variance request for provision of less than the required separation between the SAS (soil absorption system) and the septic tank to the adjacent wetland resource area (inland bank of Ryder Pond).
- The standard of review for the Board of Health is to determine if the design showing reductions to the requirements of TBoH regulations will provide as much environmental and public health protection as would a plan without variances. *A determination (such as a statement of finding) or a motion should be made to declare whether the proposed project meets this standard of review.*
- The property is within the watershed to the Wellfleet Harbor Embayment system with currently accepted MEP reports and Draft total nitrogen TMDL, but not final EPA approved total nitrogen TMDL. This watershed will be designated as a Natural Resource Area Nitrogen Sensitive Area (NSA) upon EPA approval of the total nitrogen TMDL.
  - *We should expect to see the requirement for use of I/A with Nitrogen removal below 10 mg/l in the Wellfleet Harbor Watershed within the next 10 years*
  - *Record a Deed Restriction requiring installation of I/A with Nitrogen removal below 10 mg/l if property is transferred outside of the Family. Install I/A with Nitrogen removal below 10 mg/l when ordered to do so as part of the Wellfleet Harbor Watershed Management Plan.*
  - *This was discussed with the Engineer, who will revise the plans to show a design that will accommodate a Nitro system, to be installed within \_\_\_ years.*
- *A schedule for upgrade to I/A with Nitrogen removal below 10 mg/l could be defined.*

### **7 Amity Lane, Irene Selver (46/18) : Local Upgrade Approval& TBoH Variance Request-**

***(revised notes are italicized)***

This upgrade from cesspools will serve an existing 4-Bedroom dwelling on a 2-acre parcel, with upland (as defined in TBoH regulations) estimated at approximately 25,000 sf.

- Assrs. card specifies a 4-BR house, no increase in flow is proposed.
- The project includes re-location of the existing well from the east side of the dwelling to the north side, to achieve the required separation between the well and the proposed location of the new SAS (soil absorption system).
- It appears that GW flow is toward the south and west, and although the minimum separation is met we are concerned that the proposed arrangement of the locus well and SAS may not be optimal. An alternate upstream location is suggested, but not required by our regulations at this time. There are no other wells in the area downstream of the proposed SAS.
- A local upgrade approval is sought to allow a 21% reduction in the size of the SAS (soil absorption system) which is mitigated by the proposed use of I/A treatment.
- A local variance request from TBoH regulations for reduction to the required separation between the SAS (soil absorption system) and the septic tank to the adjacent wetland resource areas (Riverfront and Coastal Bank)



- The standard of review for the Board of Health is to determine if the design showing reductions to the requirements of title 5 and TBoH regulations will provide as much environmental and public health protection as would a plan without variances. A determination (such as a statement of finding) or a motion should be made to declare whether the proposed project meets this standard of review.
- The property is within the watershed of the Little Pamet /Pamet River.
  - Per discussion with Scott Horsley on 8/10, we should expect to see a requirement for use of I/A with Nitrogen removal below 10 mg/l in the Pamet Watershed
  - Record a Deed Restriction to require installation of I/A with Nitrogen removal below 10 mg/l if property is transferred outside of the Family. Install I/A with Nitrogen removal below 10 mg/l when ordered to do so as part of a Pamet River Watershed Management Plan.
  - This was discussed with the Engineer, who will revise the plans to show the a design that will accommodate a Nitroe system, to be installed within --- years.
- A schedule for upgrade to I/A with Nitrogen removal below 10 mg/l could be defined.

### **38 Toms Hill Rd, Tina Ryman et al (49/14): Local Upgrade Approval & TBoH Variance**

**Requests:** *(revised notes)* This upgrade from cesspools will serve an existing 4-Bedroom seasonal cottage on a 31,363-sf parcel located on the Pamet River with upland (as defined in TBoH regulations) estimated at approximately 7,000 sf.

- The existing well is located north of the dwelling, and parallel (with respect to GW flow direction) with the proposed location of the new SAS (soil absorption system). A 22-foot reduction to the required separation between the well and SAS is requested. A future well location should be shown on the plan for re-location at such time as the current well fails, or water quality declines. A 2022 well water analysis shows normal sodium at 18 mg/l and slightly elevated nitrates, at 1.6 mg/l.
- It appears that GW flow is toward the west. There are no other wells in the area downstream of the proposed SAS.
- Under title 5 local upgrade approvals are sought to allow reduction in required separation between the SAS (soil absorption system) and property lines, the Coastal Bank and the locus well, along with a 21% reduction in the size of the SAS (soil absorption system).
- Under our TBoH regulations, variances are requested for the reduction of the required separation between the SAS (soil absorption system) and the septic tank to the adjacent wetland resource area (Riverfront and Coastal Bank). There is also a variance requested to the requirement that I/A be installed at this location.
  - The I/A Variance request is framed as temporary, as the property is seasonal, and the owners would install I/A when the house becomes year-round or is sold.
  - The I/A variance has been approved at other locations with seasonal use, however, the upgrade trigger was volume of flow on a parcel with considerably more (3+ acres) upland area, as defined in our regulations. Notwithstanding, seasonal use does provide approximately 50% reduction to nutrient loads since the property is not used through the year.
  - The use of I/A treatment would provide suitable mitigation for the variance requests.
  - The property is in Riverfront and within the watershed of the Pamet River.
  - Per a conversation with Scott Horsley on 8/10, we should expect to see a requirement for use of I/A with Nitrogen removal below 10 mg/l in the Pamet Watershed
  - Record a Deed Restriction limiting the use of the property to seasonal (May – October?) unless I/A with Nitrogen removal below 10 mg/l is added. Install I/A with Nitrogen

removal below 10 mg/l if property is transferred outside of the Family. Install I/A with Nitrogen removal below 10 mg/l when ordered to do so as part of a Pamet River Watershed Management Plan.

- This was discussed with the Engineer, who will revise the plans to show the a design that will accommodate a Nitroe system, to be installed within 5-7 years.
- The standard of review for the Board of Health is to determine if the design showing reductions to the requirements of title 5 and TBoH regulations will provide as much environmental and public health protection as would a plan without variances. A determination (such as a statement of finding) or a motion should be made to declare whether the proposed project meets this standard of review.
- A finding could be made about the mitigation provided in the condition of seasonality, and a schedule for upgrade to I/A with Nitrogen removal below 10 mg/l could be defined.

### **1 Mill Pond Rd, Mill Pond Road Investment Trust: Local Variance Request (Revised plans will be available for the meeting) (revised notes)**

This project proposes construction of a 3-BR single-family dwelling on a 51,736 sf parcel adjacent to Mill Pond Road, Old County Road and the Pamet River. The parcel is located within the wetland resource area of Riverfront, reducing the available area of upland to approximately 21, 367 sf; this provides enough area for a 2-bedroom home under our Local Board of Health regulations.

- 150-foot separation is required between the SAS (Soil absorption system or leaching area) and the wetland resource area. 16 'is provided. This is also the case for the reserve area, which also cannot meet the required setback.
- 100' separation is required between the septic tank to Riverfront. 41' is provided.
- A variance to nitrogen loading limitations has been requested to allow construction of a 3- bedroom dwelling, rather than the 2-bedroom allowed under the regulations.

*Installation of a "Nitroe" I/A system is now proposed to mitigate these variance requests.*

The property is located in Riverfront and is within the watershed of the Pamet River. We expect that the Board will need to move to adopt a regulation to trigger upgrades to BAT\* standards within 5-7 years.

The standard of review for the Board of Health is to determine if the design showing reductions to the requirements of local regulations will provide as much environmental and public health protection as would a plan without variances. A determination (such as a statement of finding) or a motion should be made to declare whether the proposed project meets this standard of review.



**DESIGN CRITERIA**  
 RESIDENTIAL - FAMILY DWELLING  
 110 GALLONS PER DAY (GPD) PER BEDROOM  
 PROPOSED USE:  
 13 WALSH WAY COTTAGE = 2 BEDROOMS  
 127 SOUTH PAMENT ROAD COTTAGE = 3 BEDROOMS  
 TOTAL BEDROOMS = 5 BEDROOMS  
 DESIGN FLOW: 5 BEDROOMS X 110 GPD/BEDROOM = 550 GPD  
 DESIGN PERCOLATION RATE <2 MIN./INCH  
 DESIGN SOIL CLASSIFICATION CLASS I  
 EFFLUENT LOADING RATE 0.74 GPD/SF

**LEACHING CHAMBER (DRYWELL) DESIGN**  
 550 GPD  
 0.74 GPD/SF = 743.2 SF (REQUIRED)  
 EFFECTIVE LEACHING AREA  
 INSTALL FOUR (4) 500-GALLON CHAMBERS WITH STONE

**SIDEWALL CAPACITY**  
 (L+W)(2 SIDES)(2' HIGH)  
 (42'x12.83')(2)(2) = 219.32 SF

**BOTTOM CAPACITY**  
 LENGTH X WIDTH  
 42' x 12.83' = 538.86 SF

**TOTALS**  
 TOTAL NUMBER OF CHAMBERS = 5  
 TOTAL LEACHING AREA = 758.18 SF  
 TOTAL LEACHING CAPACITY = 561 GPD

**SEPTIC TANK DESIGN**  
 DESIGN FLOW: 550 GPD  
 DESIGN FLOW X 200% = 1,100 GALLONS

PROVIDE 1,500-GALLON SEPTIC TANK

**PIPE LOADING CALCULATION**  
 (REF: UNI-BELL HANDBOOK OF PVC PIPE)  
 FOR H2O LOADING AND 1' OF COVER:  
 TOTAL LIVE + DEAD LOAD = 1,600 PSF = 11.1 PSI (FIG. 11, PG. 134)  
 FOR H2O LOADING, 1' COVER, HIGHWAY CONDITIONS:  
 IMPACT FACTOR = 1.5 (TABLE 21)  
 SAFETY FACTOR = 1.5  
 PIPE STRESS = (11.1 PSI)(1.5)(1.5) = 25.0 PSI  
 ALLOWABLE PIPE STRESS:  
 SDR 35 = 46 PSI > 25.0 PSI => OK (TABLE 24)

**SOILS EVALUATION**  
 CONDUCTED BY: CHRIS WICKSON, CERTIFIED SOIL EVALUATOR  
 OBSERVED BY: EMILY BEEBE, TRURO BOARD OF HEALTH AGENT  
 SOIL TESTING DATE: AUGUST 20, 2009  
**TEST HOLE #1 GROUND ELEVATION=103.0**  
 DEPTH(INCHES) HORIZON, COLOR, TEXTURE, MOTTLING & NOTES  
 0-37 FILL/HTM  
 37-55 B LOAMY SAND  
 55-132 C MEDIUM SAND  
 DEPTH TO BEDROCK: >11 FEET  
 EST. SEASONAL HIGH G.W.: NONE OBSERVED  
 STANDING WATER: NONE ENCOUNTERED  
 WEEPING WATER: NONE ENCOUNTERED  
 PERCOLATION RATE: <2 MIN./INCH

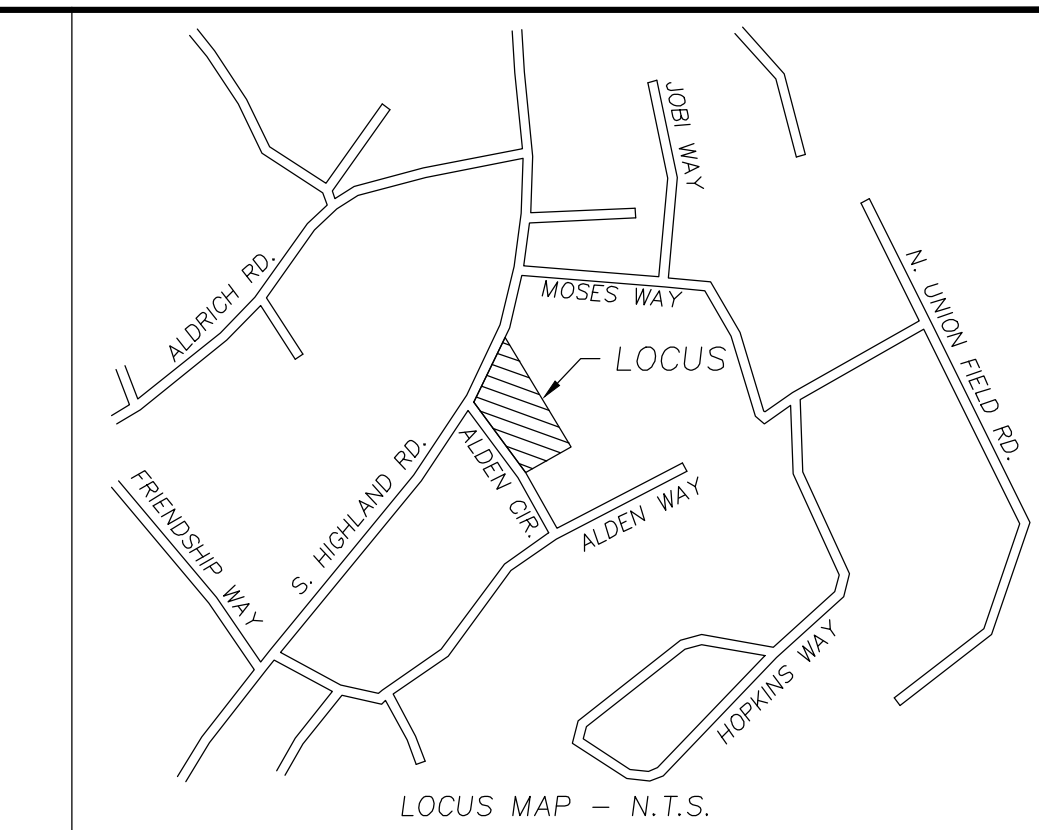
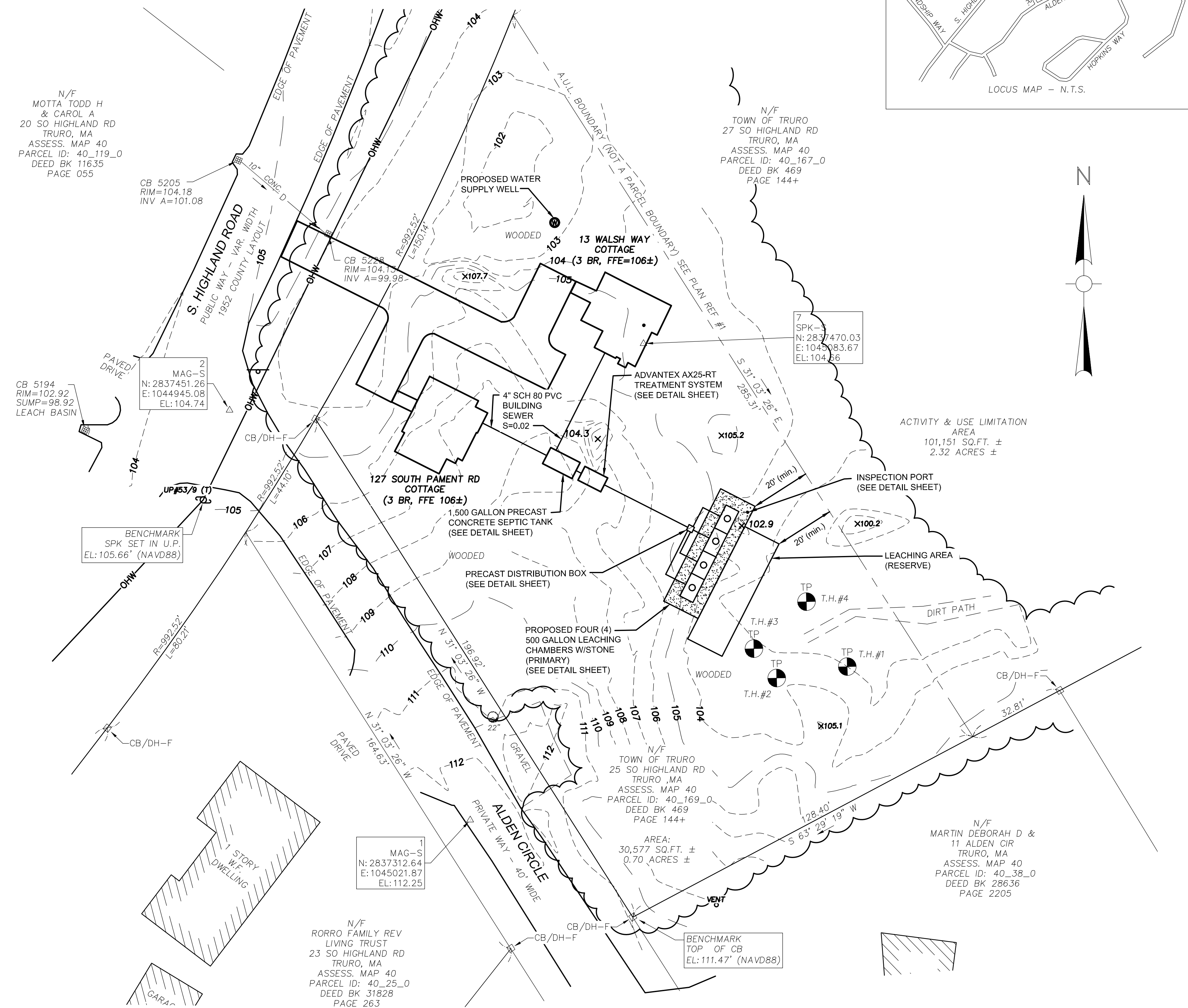
**TEST HOLE #2 GROUND ELEVATION=103.5**  
 DEPTH(INCHES) HORIZON, COLOR, TEXTURE, MOTTLING & NOTES  
 0-36 FILL/HTM  
 36-44 A LOAMY SAND  
 44-50 B LOAMY SAND  
 40-144 C MEDIUM SAND  
 DEPTH TO BEDROCK: >12 FEET  
 EST. SEASONAL HIGH G.W.: NONE OBSERVED  
 STANDING WATER: NONE ENCOUNTERED  
 WEEPING WATER: NONE ENCOUNTERED  
 PERCOLATION RATE: <2 MIN./INCH


**TEST HOLE #3 GROUND ELEVATION=103.0**  
 DEPTH(INCHES) HORIZON, COLOR, TEXTURE, MOTTLING & NOTES  
 0-30 FILL/HTM  
 30-40 A LOAMY SAND  
 40-48 B LOAMY SAND  
 48-144 C MEDIUM SAND  
 DEPTH TO BEDROCK: >12 FEET  
 EST. SEASONAL HIGH G.W.: NONE OBSERVED  
 STANDING WATER: NONE ENCOUNTERED  
 WEEPING WATER: NONE ENCOUNTERED  
 PERCOLATION RATE: <2 MIN./INCH

**TEST HOLE #4 GROUND ELEVATION=102.5**  
 DEPTH(INCHES) HORIZON, COLOR, TEXTURE, MOTTLING & NOTES  
 0-12 FILL/HTM  
 12-22 A LOAMY SAND  
 22-34 B LOAMY SAND  
 34-132 C MEDIUM SAND  
 DEPTH TO BEDROCK: >11 FEET  
 EST. SEASONAL HIGH G.W.: NONE OBSERVED  
 STANDING WATER: NONE ENCOUNTERED  
 WEEPING WATER: NONE ENCOUNTERED  
 PERCOLATION RATE: <2 MIN./INCH

**GROUNDWATER SEPARATION**  
 BOTTOM OF CHAMBER ELEV. 98.0  
 ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION 92.0 (TH#1)  
 SEPARATION REQUIRED 5.0 FT (MIN.)  
 SEPARATION PROVIDED 6.0 FT

**GENERAL NOTES:**  
 1. PROJECT SITE LOCATED AT 25 SOUTH HIGHLAND ROAD, TRURO, MA, ASSESSOR MAP AND PARCEL NO. 40-169.  
 2. FURNISHING AND INSTALLATION OF THE SUBSURFACE DISPOSAL SYSTEM SHALL CONFORM TO THE PROVISIONS OF TITLE 5 OF THE STATE ENVIRONMENTAL CODE (310 CMR 15.000) AND THE TRURO BOARD OF HEALTH REGULATIONS.  
 3. TOPOGRAPHIC INFORMATION BASED UPON A 2022 SURVEY PERFORMED BY ALPHA SURVEY GROUP. HORIZONTAL COORDINATES BASED UPON MASS. STATE PLAN (NAD 83) AND VERTICAL DATUM IS BASED UPON NORTH AMERICAN VERTICAL DATUM (NAVD 88).  
 4. THE LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.  
 5. TREES AND SHRUBS WITHIN THE LIMITS OF WORK SHALL BE REMOVED ONLY UPON THE APPROVAL OF THE ENGINEER OR AS NOTED ON THE PLANS.  
 6. THE CONTRACTOR SHALL CALL DIGSAFE AT 1-888-344-7233 AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DIGSAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.  
 7. NO GARBAGE DISPOSAL OR WATER SOFTENERS TO BE CONNECTED TO THE SEPTIC SYSTEM.  
 8. THE SOIL ABSORPTION SYSTEM IS LOCATED GREATER THAN 100 FEET FROM THE CLOSEST POTABLE OR NON-POTABLE WELL.  
 9. THE SOIL ABSORPTION SYSTEM IS LOCATED GREATER THAN 100 FEET FROM THE CLOSEST WETLAND, WATER COURSE, WATER BODY AND FLOOD PLAIN.  
 10. CONTRACTOR SHALL PLACE TWO TEMPORARY BENCHMARKS WITHIN 75 FEET OF THE SYSTEM PRIOR TO OR AT TIME OF CONSTRUCTION. SITE BENCHMARK IS SPIKE SET IN UTILITY POLE (ELEV. = 105.66).  
 11. DOUBLE-WASHED STONE SHALL BE FREE OF IRON, FINES, AND DUST IN ACCORDANCE WITH 310 CMR 15.247.  
 12. CONTRACTOR MUST HAVE OR OBTAIN A LICENSE TO INSTALL SEPTIC SYSTEMS IN TRURO, MA THROUGH THE TRURO BOARD OF HEALTH.  
 13. CONSTRUCTION OF PERMANENT STRUCTURES UPON THE DISPOSAL SYSTEM AND RESERVE AREA IS PROHIBITED.  
 14. MAGNETIC TRACER TAPE SHALL BE INSTALLED OVER ALL SYSTEM COMPONENTS.  
 15. PROPERTY IS LOCATED WITHIN A MASS DEP APPROVED ZONE II.  
 16. THIS PROJECT IS SUBJECT TO NITROGEN LOADING LIMITATIONS AND AGGREGATION FLOWS ARE REQUIRED PER 310 CMR 15.214 (NITROGEN LOADING LIMITATIONS). TOTAL LAND AREA OF 50,000 S.F. IS REQUIRED FOR A FIVE (5) BEDROOM FACILITY. FACILITY LAND (i.e. 25 SOUTH HIGHLAND ROAD) AREA EQUALS 33,759 S.F. MINIMUM NON-FACILITY CREDIT LAND AREA EQUALS 16,241 S.F. (50,000 - 33,759 = 16,241). AS REQUIRED, EXECUTED RESTRICTION DOCUMENTS WILL BE SUBMITTED TO THE TRURO BOARD OF HEALTH AT THE TIME OF REQUESTING CERTIFICATE OF COMPLIANCE.  
 17. NON-FACILITY CREDIT LAND: NITROGEN LOADING EASEMENT OF 16,241 S.F. OF LAND OVER A PORTION OF THE ADJACENT PARCEL 27 SOUTH HIGHLAND ROAD, (TOWN OF TRURO), ASSESSOR MAP AND PARCEL NO. 40-167, AS SHOWN ON PLAN BOOK 469, PAGE 144 RECORDED AT THE PLYMOUTH COUNTY REGISTRY OF DEEDS.



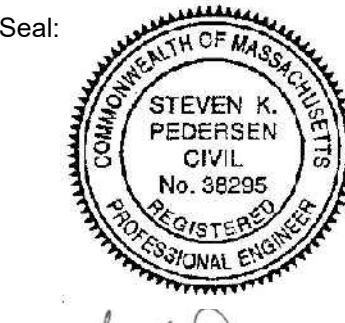
Project:  
 TOWN OF TRURO  
  
 DEPARTMENT OF PUBLIC WORKS  
 25 SOUTH HIGHLAND RD  
 TRURO, MA 02866-2030  
 OWNER: TOWN OF TRURO  
 ASSESSORS MAP: 40  
 PARCEL: 169

Weston & Sampson  
 Weston & Sampson Engineers, Inc.  
 55 Walkers Brook Drive, Suite 100  
 Reading, MA 01867  
 978.532.1900 800.SAMPSON  
 www.westonandsampson.com

Consultants:

Revisions:

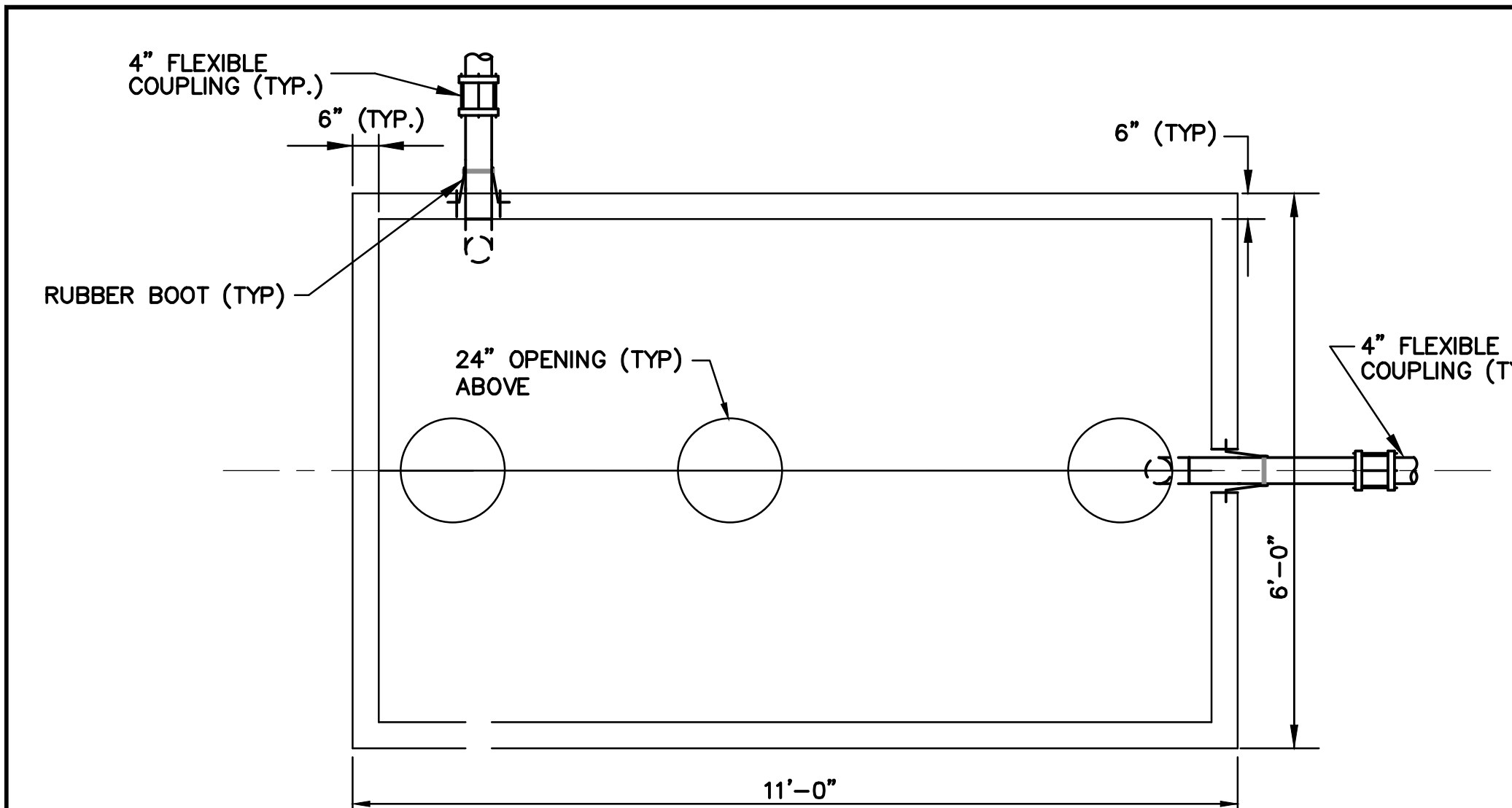
No.	Date	Description

Seal:  
  
 Issued For:  
 PERMITTING

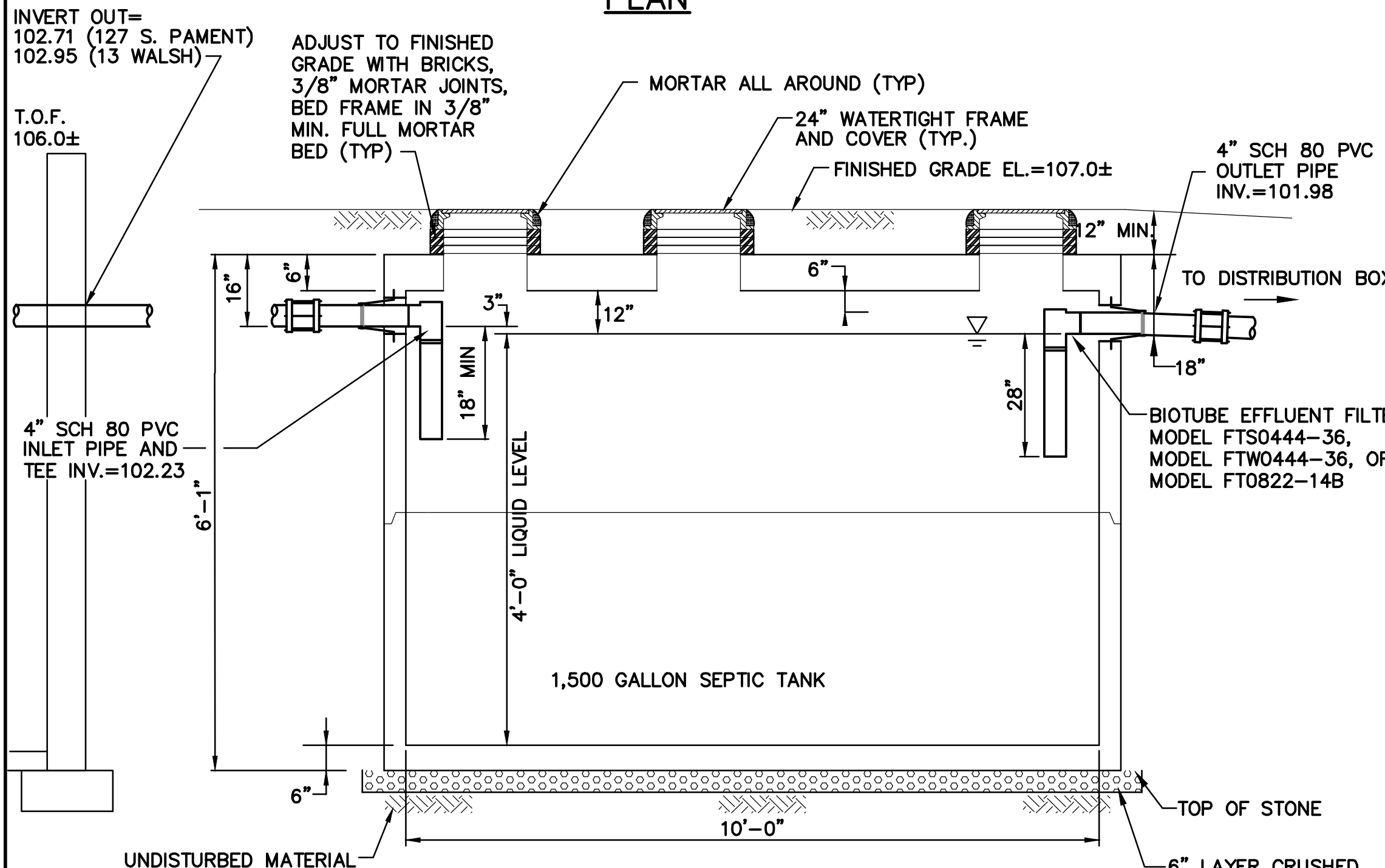
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 Date: AUGUST 14, 2023  
 Drawn By: MEP  
 Reviewed By: SKP  
 Approved By: SKP  
 W&S Project No: ENG22-1122  
 W&S File No: -

Drawing Title:  
**SEPTIC SYSTEM SITE PLAN**  
 Sheet Number:  
**C-1**

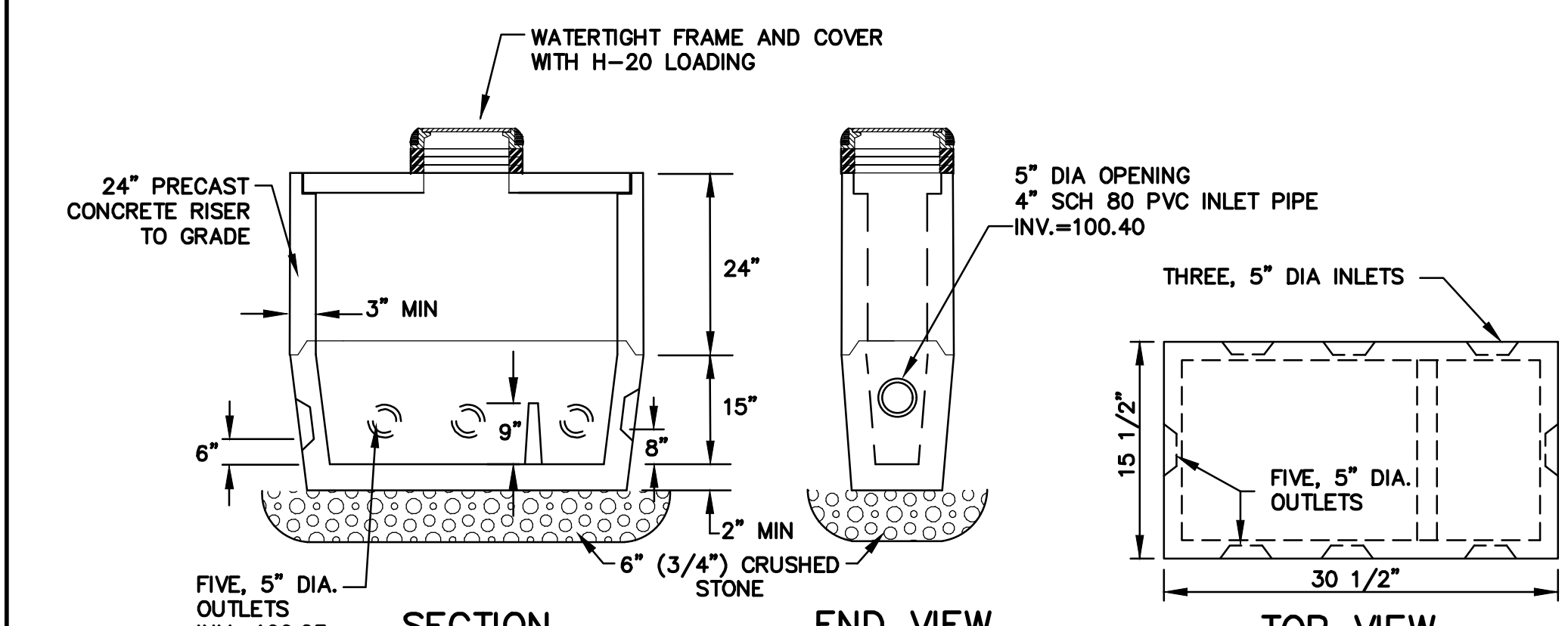
**FOR PERMIT REVIEW ONLY**  
**8/14/23**



**PLAN**

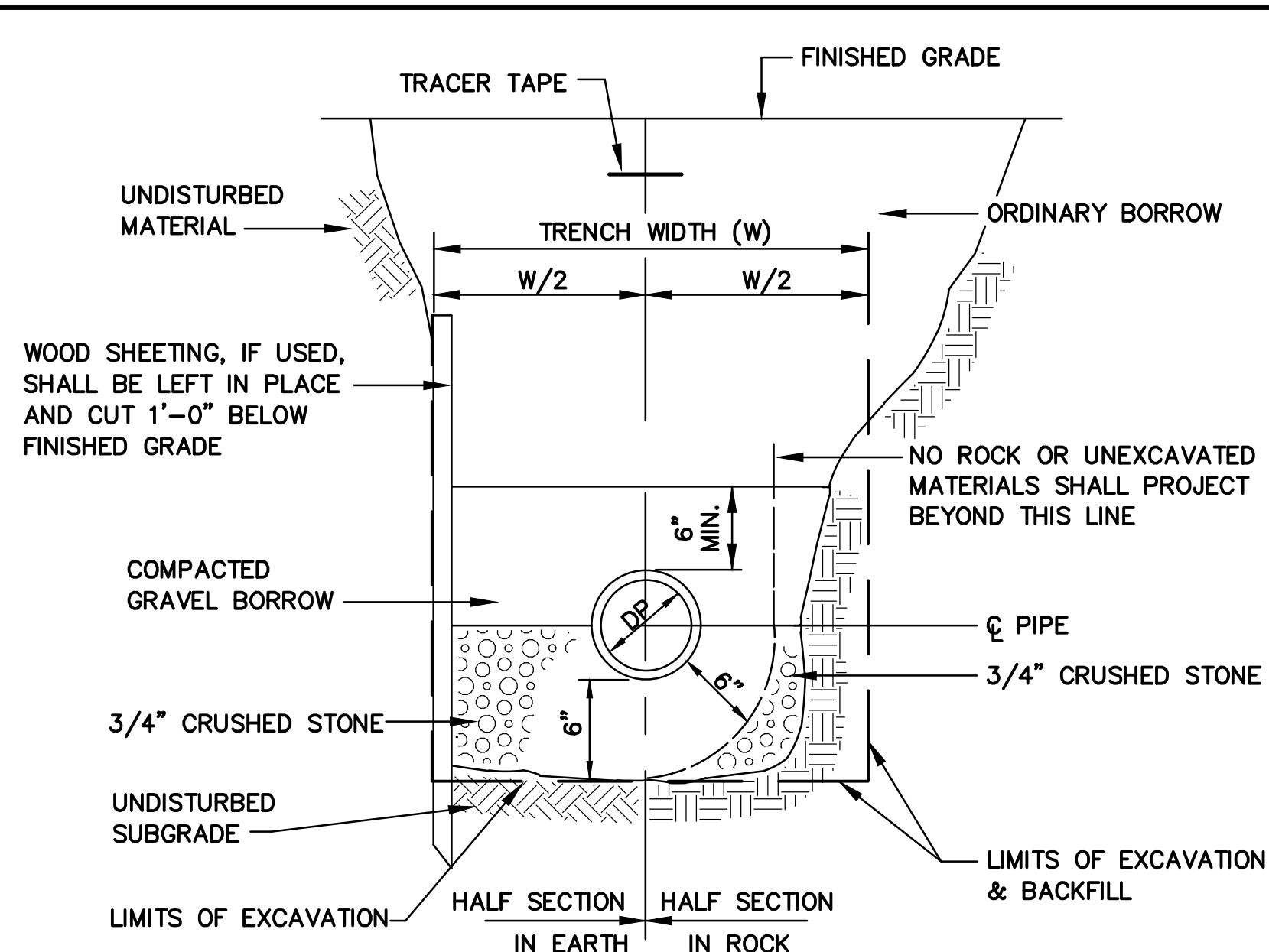


**1,500 GALLON PRECAST SEPTIC TANK**  
N.T.S.



**PRECAST DISTRIBUTION BOX WITH BAFFLE DETAIL**  
N.T.S.

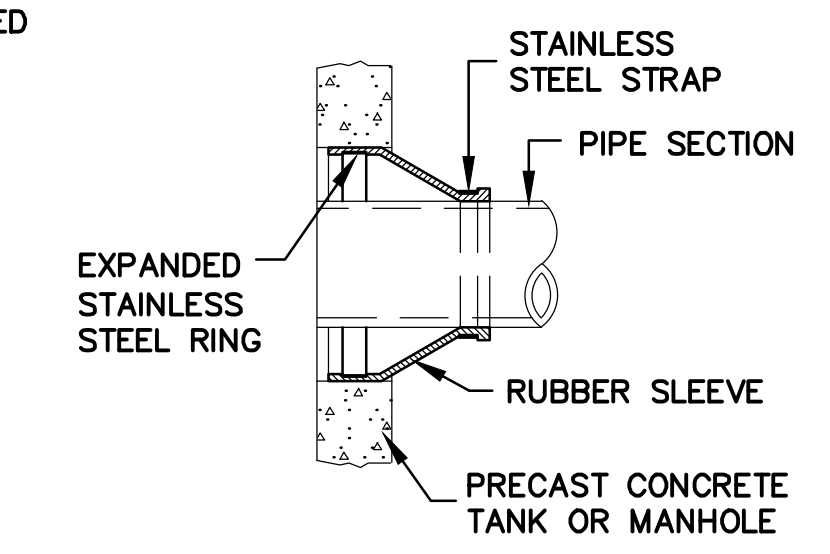
- NOTES:**
- DISTRIBUTION BOX SHALL BE PLACED ON A MINIMUM 6" CRUSHED STONE BASE.
  - UNUSED OUTLETS TO BE PLUGGED WITH GROUT.
  - OUTLET LINES FROM THE DISTRIBUTION BOX SHALL BE INSTALLED LEVEL FOR THE FIRST TWO FEET.
  - CONCRETE: 5000 PSI AFTER 28 DAYS.
  - DISTRIBUTION BOX TO MEET H-20 LOADING.
  - KEYED JOINT TO BE SEALED WITH BUTYL RUBBER.
  - ALL EXCESS SOIL FROM DISTRIBUTION BOX EXCAVATION SHALL BE STOCKPILED ON SITE FOR DISPOSAL BY THE TOWN.
  - HYDRAULIC CEMENT IS REQUIRED TO SEAL ALL CONNECTIONS.



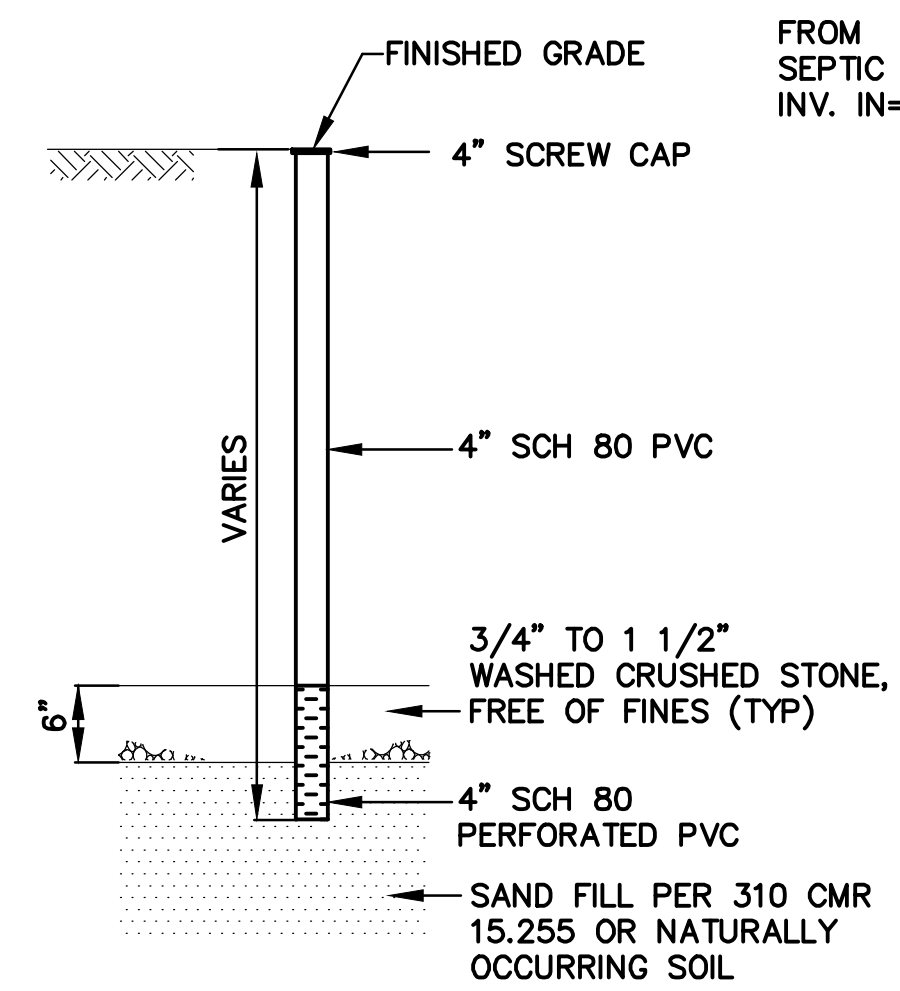
**SEWER TRENCH DETAIL**  
N.T.S.

**SEPTIC TANK NOTES:**

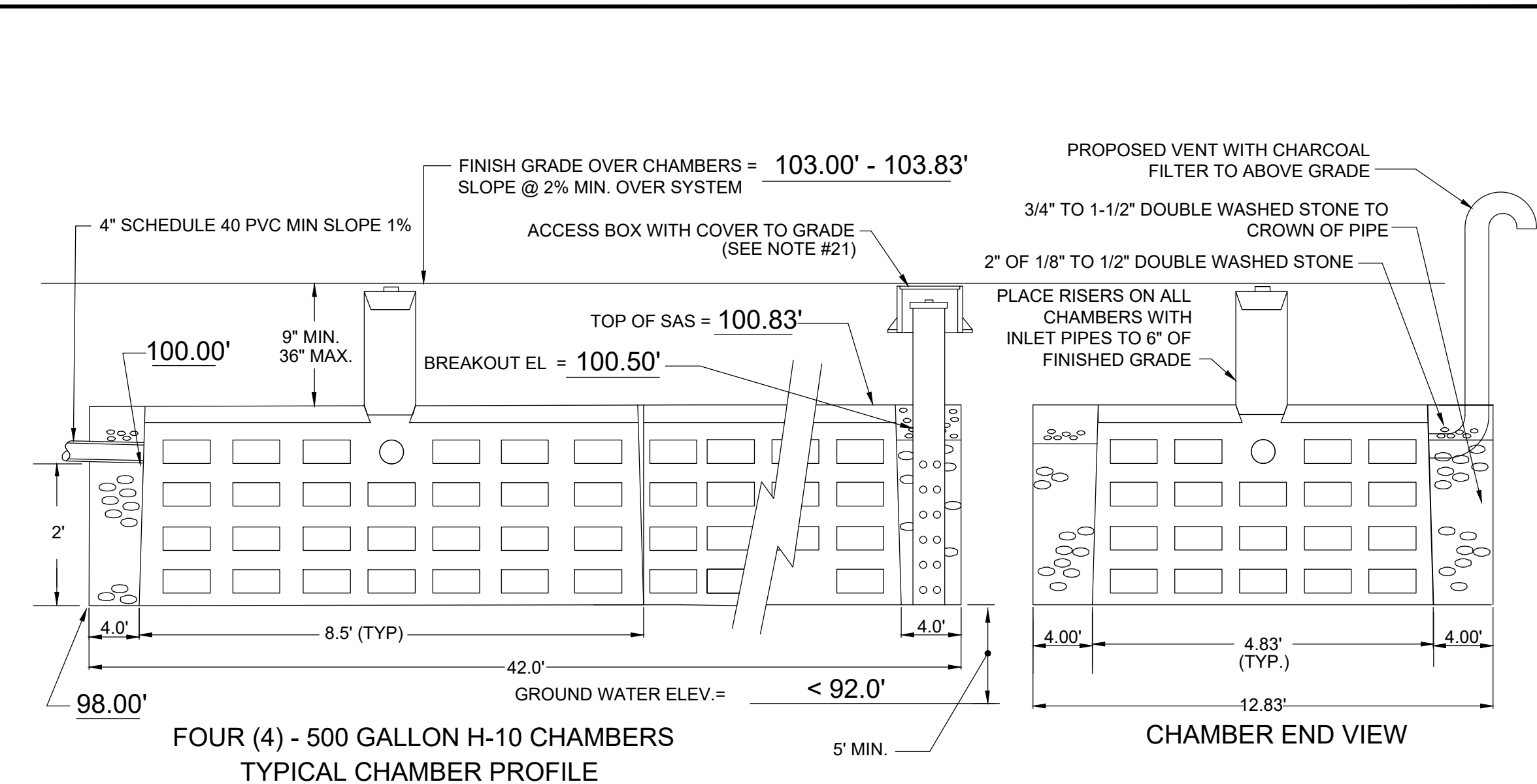
- CONCRETE: 4,000 PSI AFTER 28 DAYS.
- TANK AND COVERS TO MEET AASHTO H-20 LOADING.
- KEYED JOINT TO BE SEALED WITH BUTYL RUBBER.
- PRECAST CONCRETE TANKS SHALL MEET REQUIREMENTS OF 310 CMR 15.223 THROUGH 15.228.
- SEPTIC TANK INLET TEE TO EXTEND BELOW LIQUID LEVEL IN ACCORDANCE WITH 310 CMR 15.227.
- SEPTIC TANK TEES SHALL EXTEND A MINIMUM OF 6" ABOVE THE FLOW LINE.
- ALL MANHOLE FRAMES AND COVERS SHALL BE ADJUSTED TO FINISHED GRADE AS DETAILED ABOVE. FIBER REINFORCED PRECAST CONCRETE MANHOLE DONUTS SHALL BE USED TO ADJUST MANHOLE FRAMES TO GRADE WHEN THE USE OF BRICKS EXCEEDS ONE VERTICAL FOOT.
- HYDRAULIC CEMENT IS REQUIRED TO SEAL ALL CONNECTIONS.



**PIPE SEAL DETAIL**  
N.T.S.

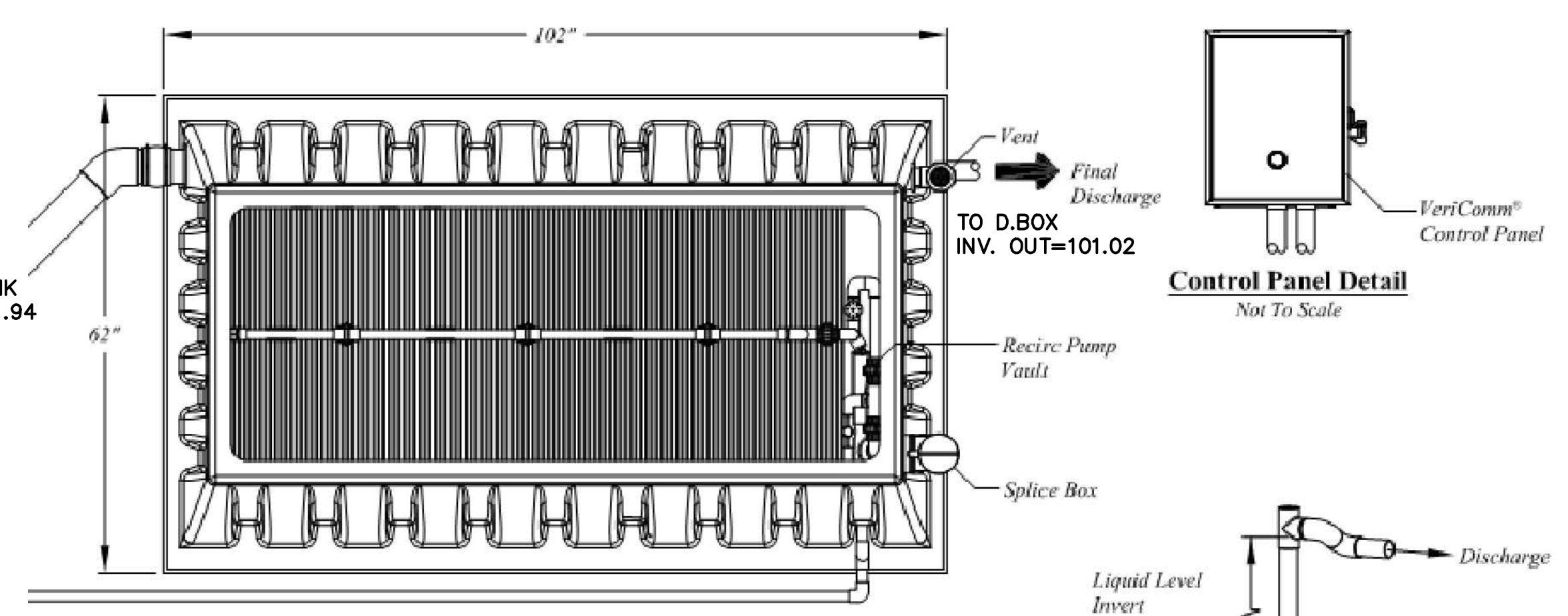


**INSPECTION PORT DETAIL**  
N.T.S.

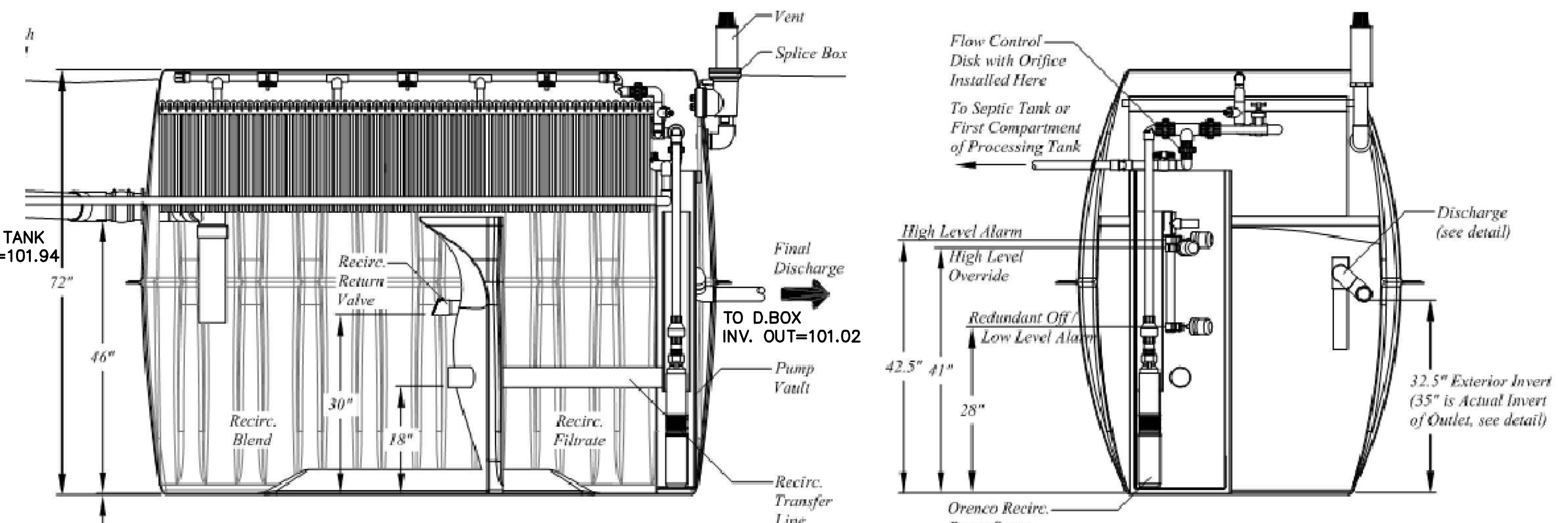


**H-10 LEACHING CHAMBER DETAILS**  
N.T.S.

DEPTH TO INVERT	DIAMETER OF PIPE (DP)	LINE OF NARROW TRENCH LIMIT (SHEETED OR UNSHEETED) MAXIMUM TRENCH WIDTH BELOW
0-12'	TO 4"	5'-0"



**AX25 800 gal. Recirc. Tank - Top View**



**AX25 800 gal. Recirc. Tank - Side View**

**Discharge Chamber - End View**

**ADVANTECH AX25-TREATMENT SYSTEM- GRAVITY DISCHARGE**  
N.T.S.

**FOR PERMIT REVIEW ONLY**  
8/14/23

Project:  
TOWN OF TRURO  
  
DEPARTMENT OF PUBLIC WORKS  
25 SOUTH HIGHLAND RD  
TRURO, MA 02866-2030  
OWNER: TOWN OF TRURO  
ASSESSORS MAP: 40  
PARCEL: 169

**Weston & Sampson**  
Weston & Sampson Engineers, Inc.  
55 Walkers Brook Drive, Suite 100  
Reading, MA 01867  
978.532.1900 800.SAMPSON  
www.westonandsampson.com

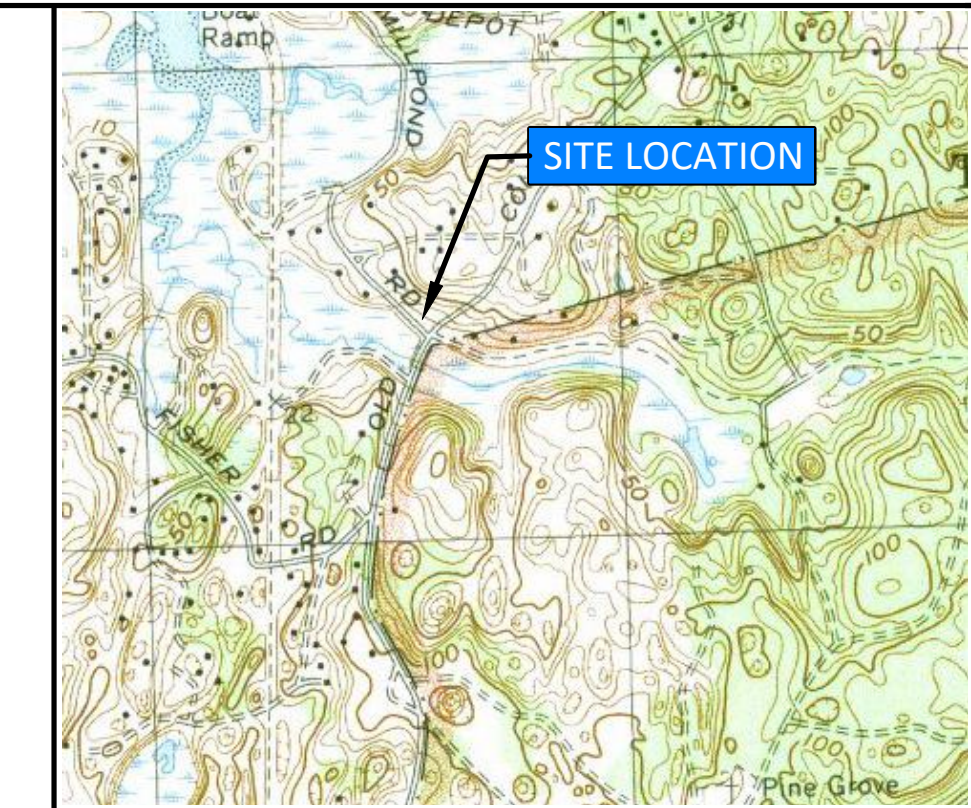
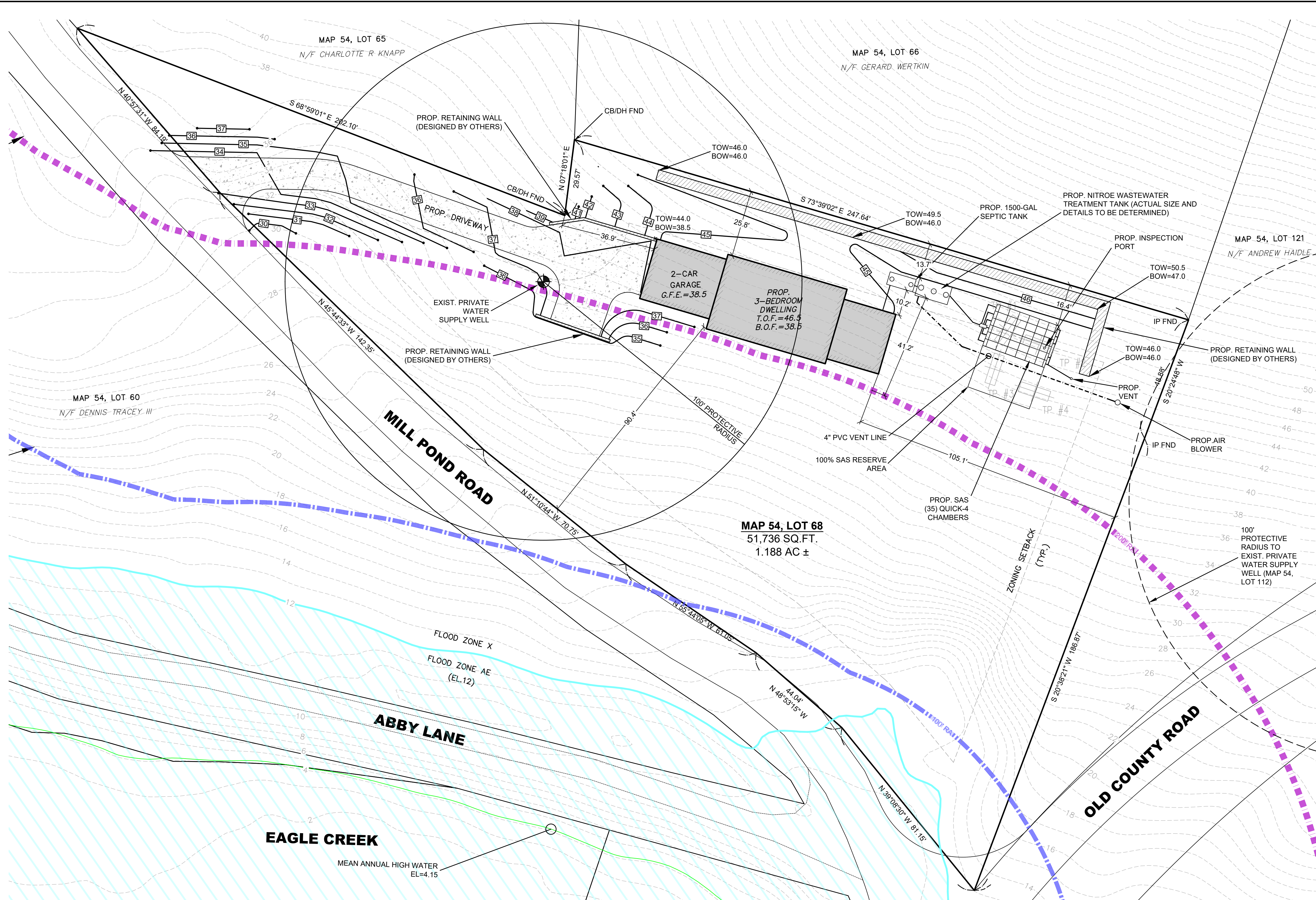
Consultants:  
  
Revisions:  
No. Date Description  


Seal:  
  
Issued For:  
PERMITTING  
Scale: AS NOTED  
Date: AUGUST 14, 2023  
Drawn By: MEP  
Reviewed By: SKP  
Approved By: SKP  
W&S Project No: ENG22-1122  
W&S File No: -

Drawing Title:  
**SEPTIC SYSTEM DETAILS**

Sheet Number:  
**C-2**





**SITE LOCATION**  
NOT TO SCALE

**SITE ADDRESS**  
1 MILL POND RD.  
TRURO, MA 02652

**CURRENT OWNER**  
MILL POND INVESTMENT TRUST  
THOMAS LITTAUER, TRUSTEE  
288 JERUSALEM RD.  
COHASSET, MA 02025

**ASSESSOR'S REFERENCES**  
54-68-0

**DEED REFERENCES**  
BK. 17860 - PG. 326

**TOWN OF TRURO ZONING DESIGNATION**  
RESIDENTIAL

**NOTES**

1. THE EXISTING TOPOGRAPHY IS BASED ON 2021 LIDAR DATA FROM NOAA.
2. THE LOCATION OF THE TOP OF BANK FOR THE PERENIAL STREAM LOCATED SOUTH OF THE SUBJECT PROPERTY WAS DETERMINED BASED ON INTERPRETATION OF LIDAR POINT DATA FROM 2021.
3. PORTIONS OF THE SUBJECT PROPERTY ARE LOCATED IN A PRIORITY HABITATE AS SHOWN ON THE LATEST EDITION OF THE MASSACHUSETTS NATURAL HERITAGE ATLAS.

**DELINEATION ABBREVIATIONS**

BVW - BORDERING VEGETATED WETLAND  
TOB - TOP OF BANK  
MHW - MEAN ANNUAL HIGH WATER  
TOP - TOP OF FOUNDATION  
BFE - BASEMENT FLOOR ELEVATION  
GFE - GARAGE FLOOR ELEVATION  
TOW - TOP OF WALL  
BOW - BOTTOM OF WALL

**IMPACT SUMMARY**

DESCRIPTION	AMOUNT
TOTAL LOT AREA	51,736 SF
LOT AREA OUTSIDE RIVERFRONT AREA	21,367 SF
TOTAL RIVERFRONT AREA ON LOT	30,369 SF
TOTAL RIVERFRONT AREA IMPACT (SF)	3,000 SF
OUTER RIPARIAN RIVERFRONT AREA (SF)	26,724 SF
TOTAL OUTER RIPARIAN IMPACT (SF)	3,000 SF
INNER RIPARIAN RIVERFRONT AREA (SF)	3,645 SF
INNER RIPARIAN IMPACT	0 SF
TOTAL LOT AREA OUTSIDE INNER RIPARIAN	48,091 SF

**ZONING TABLE**  
ZONING DISTRICT: RESIDENTIAL

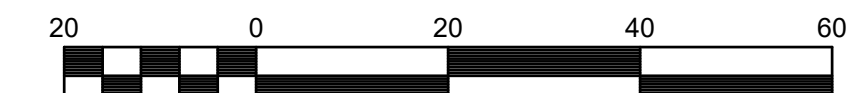
REQUIREMENT	REQUIRED	PROPOSED
MINIMUM LOT AREA (SF)	33,750	51,736±
MINIMUM FRONTAGE (FT)	150	483.35
MINIMUM SETBACKS:		
FRONT (FT)	25	90.4
SIDE (FT)	25	36.9 & 105.1
REAR (FT)	25	25.8

**LOCAL VARIANCE REQUESTS**

VARIANCES FROM THE FOLLOWING PROVISIONS OF THE TRURO BOARD OF HEALTH REGULATIONS ARE REQUESTED:

1. ARTICLE 9 - SAS TO WETLANDS: A REDUCTION FROM 150 TO 16.7' FROM SAS TO THE 200' RIVERFRONT AREA (RA).
2. ARTICLE 9 - SEPTIC TANK TO WETLANDS: A REDUCTION FROM 100' TO 41.2' FROM SEPTIC TANK TO THE 200' RA.
3. ARTICLE 11 - BUILDABLE UPLAND CALCULATIONS FOR NITROGEN LOADING LIMITATIONS: A WAIVER ALLOWING THE USE OF THE OUTER RIPARIAN ZONE OF THE RIVERFRONT AREA TO BE USED IN THE BUILDABLE UPLAND AREA CALCULATIONS.

**SEPTIC AND GRADING LAYOUT:**



Scale 1" = 20'

**LEGEND**

DESCRIPTION	EXISTING
MEAN ANNUAL HIGH WATER	—
LIMIT OF BVW/TOP OF BANK	—
100' RIVERFRONT AREA	—
200' RIVERFRONT AREA	—
CONTOUR	---52---
SPOT ELEVATIONS	84X0
TREE LINE	~
CONSERVATION POST	⊞

REV	DATE	DESCRIPTION	BY	APP.
1	8/14/23	ADDED NITROE WWTSS	RSR	

**MILL POND INVESTMENT TRUST**  
THOMAS W. LITTAUER, TRUSTEE  
288 JERUSALEM ROAD  
COHASSET, MA 02025



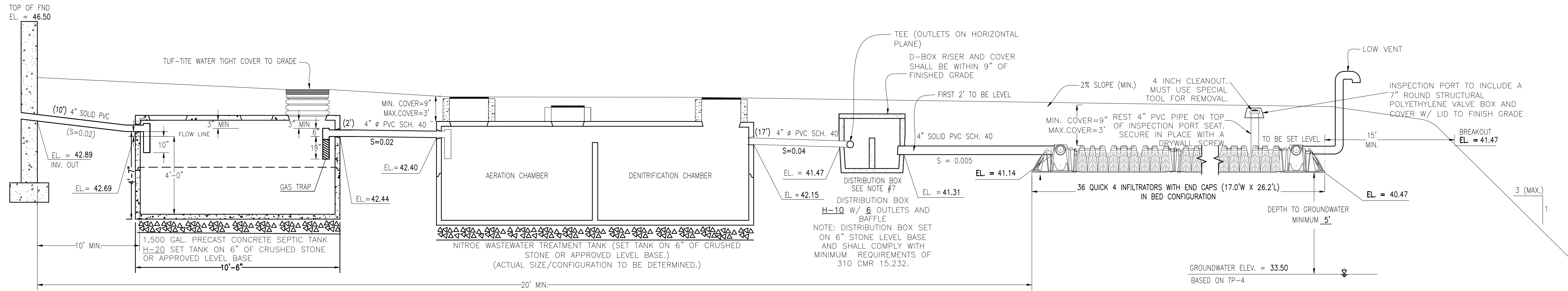
**RiverHawk ENVIRONMENTAL**  
CIVIL ENGINEERING & ENVIRONMENTAL CONSULTING  
2183 OCEAN STREET, MARSHFIELD, MA 02050  
781-536-4639 - www.riverhawkllc.com

**SITE PLAN**  
1 MILL POND ROAD  
TRURO, MA

**SITE LAYOUT PLAN**

PROJECT NO: 00381-03-01  
DATE: JULY 13, 2023  
SCALE: AS SHOWN





**SEPTIC SYSTEM PROFILE**  
NOT TO SCALE

**SOIL DATA:**

DATE: 07/06/2023  
PERFORMED BY: JAKE URETSKY (RIVER HAWK ENVIRONMENTAL, LLC)

WITNESSED BY: COURTNEY WARREN (TRURO BOH)

SOIL HORIZ.	TP-1	DEPTH (INCHES)	ELEV. (FEET)	SOIL HORIZ.	TP-2	DEPTH (INCHES)	ELEV. (FEET)	SOIL HORIZ.	TP-3	DEPTH (INCHES)	ELEV. (FEET)	SOIL HORIZ.	TP-4	DEPTH (INCHES)	ELEV. (FEET)
A	SAND 10YR 2/1	0-6	47.5	ORGANIC	0-1	47.5		ORGANIC	0-1	43.7		ORGANIC	0-1	43.4	
Bw	SAND 7.5YR 5/6	6-28	45.2	A	1-8	46.8		A	1-5	43.4		A	1-8	42.8	
C	SAND 2.5Y 7/4	28-120	37.5	Bw	8-23	45.6		Bw	5-23	41.9		Bw	8-22	41.7	
				C	23-120	37.5		C	23-120	33.8		C	22-120	33.5	

MOTTLING - NOT OBSERVED  
WEEPING - NOT OBSERVED  
STANDING WATER - NOT OBSERVED  
NO REDOX FEATURES  
S.H.G.E. = >37.5  
PERC. = <2 MPI

MOTTLING - NOT OBSERVED  
WEEPING - NOT OBSERVED  
STANDING WATER - NOT OBSERVED  
NO REDOX FEATURES  
S.H.G.E. = >37.5

MOTTLING - NOT OBSERVED  
WEEPING - NOT OBSERVED  
STANDING WATER - NOT OBSERVED  
NO REDOX FEATURES  
S.H.G.E. = >33.8

MOTTLING - NOT OBSERVED  
WEEPING - NOT OBSERVED  
STANDING WATER - NOT OBSERVED  
NO REDOX FEATURES  
S.H.G.E. = >33.5  
PERC. = <2 MPI

NOTE:  
1. THE O, A, AND B LAYERS ARE TO BE REMOVED BELOW THE SAS AND REPLACED WITH CLEAN FILL IN ACCORDANCE WITH 310 CMR 15.255(3). UNSUITABLE SOIL TO BE REMOVED TO A DISTANCE OF 5' BEYOND THE LIMITS OF THE SOIL ABSORPTION SYSTEM.

**DESIGN DATA:**

**DESIGN FLOW:**  
PROP. 3-BEDROOM DWELLING  
3 BEDROOMS x 110 GPD/BEDROOM = 330 GPD  
PERC RATE = <2 MIN/INCH

**SOIL ABSORPTION SYSTEM:**  
PERCOLATION RATE - <2 MIN/INCH (CLASS I SOIL)  
USE DESIGN LOADING RATE = 0.74 GPD/SF  
(330 GPD)  
LEACHING AREA REQ'D = (0.74 GPD/SF) = 446 SF  
USE QUICK 4 PLUS INFILTRATOR CHAMBERS IN BED CONFIGURATION  
(446 S.F.) / (4.73 S.F./FT.) = 94 FT OF CHAMBERS REQUIRED  
FROM TABLE 3 OF CERTIFICATION FOR GENERAL USE:  
EFFECTIVE AREA IS EQUAL TO 4.73 FOR A BED OR FIELD CONFIGURATION  
(94 FT) / (4 FT) = 24 CHAMBERS REQUIRED - USE 36 CHAMBERS AND 12 END CAPS PER MASSDEP APPROVAL

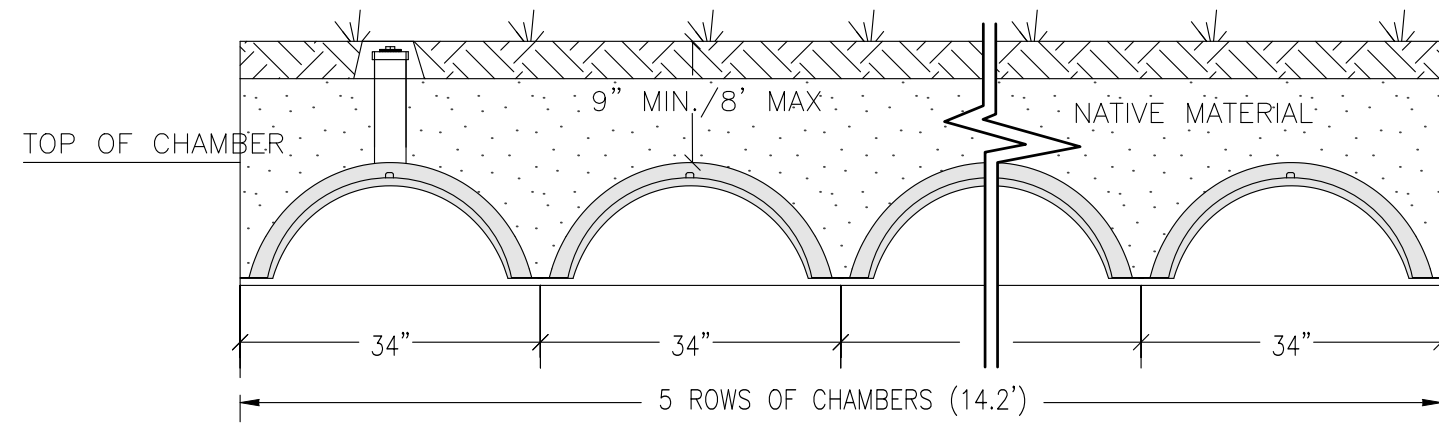
FROM TABLE 1 OF MODIFIED CERTIFICATION FOR GENERAL USE: EFFECTIVE LENGTH IS EQUAL TO 4 FOR A BED OR FIELD CONFIGURATION  
(36 CHAMBERS) X (4.0 FT./CHAMBER) = 144 FT.  
(6 CAPS) X (15"/CAP) = 7.5 FT.  
(6 END CAPS) X (11.5"/END CAP) = 5.75 FT.  
TOTAL AREA = 144' + 7.5' + 5.75' = 157.25 FT  
LEACHING AREA PROVIDED:  
(4.73 S.F./FT.) X (157.25 FT.) = 744 S.F. > 446 S.F.  
DAILY FLOW CAPACITY:  
744 SF X 0.74 GPD/SF = 550 GPD > 330 GPD REQ'D

**PROPERTY NOTES:**

- THE PROPERTY IS SHOWN ON THE TOWN OF TRURO ASSESSORS PARCEL ID 2926 MAP 54 PARCEL 68.
- FOR TITLE REFERENCE TO THE SUBJECT PROPERTY REFER TO BOOK 17860, PAGE 326 AT THE BARNSTABLE COUNTY REGISTRY OF DEEDS.
- SINCE EAGLE CREEK IS TIDAL, THE MEAN ANNUAL HIGH WATER LINE WAS DETERMINED IN ACCORDANCE WITH 310 CMR 10.23.
- PORTIONS OF THE PROPERTY ARE LOCATED IN ZONE AE, AS SHOWN ON THE FLOOD INSURANCE RATE MAPS (F.I.R.M.) OF BARNSTABLE COUNTY, MASSACHUSETTS, MAP NUMBER 25001C0227J DATED JULY 16, 2014. ALL PROPOSED WORK INCLUDING THE SEPTIC SYSTEM IS NOT IN A FLOOD ZONE.

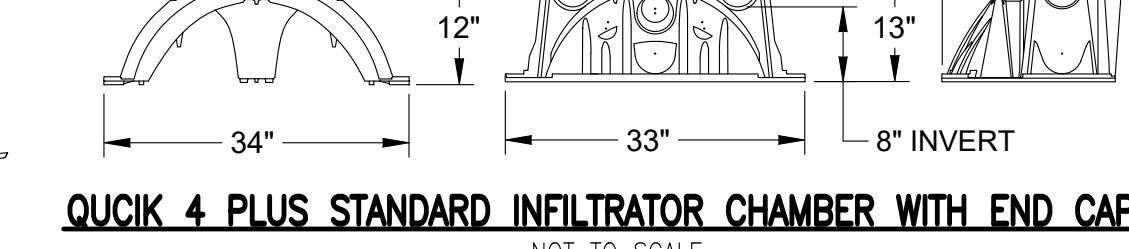
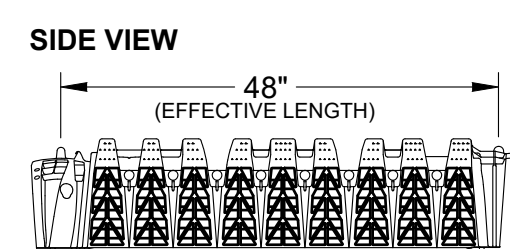
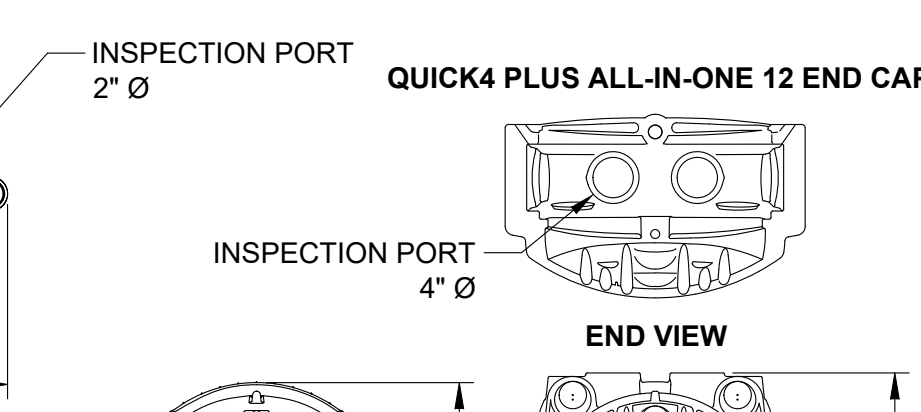
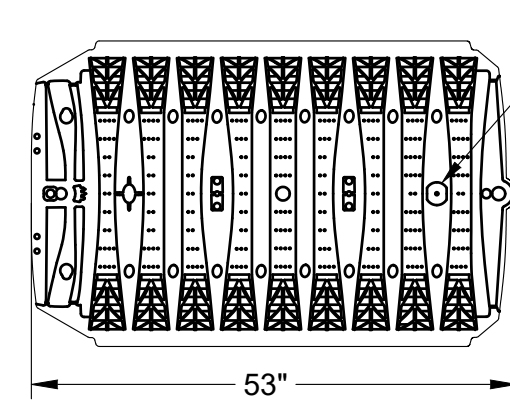
**NOTES:**

- THE CONTRACTOR SHALL NOTIFY THE LOCAL BOARD OF HEALTH AND RIVER HAWK ENVIRONMENTAL, LLC, AT LEAST 48 HOURS PRIOR TO REQUIRED INSPECTIONS. THE REQUIRED INSPECTIONS ARE AS FOLLOWS:  
A. AFTER LEACH FIELD EXCAVATION PRIOR TO PLACEMENT OF SAND  
B. AFTER PLACEMENT OF TANKS AND LEACHING CHAMBERS  
C. PRIOR TO BACKFILL, THE CONTRACTOR IS TO PROVIDE A CURRENT SIEVE ANALYSIS SHOWING THE SAND MEETS 310 CMR 15.255(3) SPECIFICATIONS IF REQUESTED BY THE DESIGN ENGINEER.  
D. DURING BACKFILLING IN ACCORDANCE WITH 310 CMR 15.021 (2)  
E. FINAL INSPECTION AFTER LOAM AND SEED HAVE BEEN PLACED
- BENCHMARK IS TOP OF WELL CASING, AS INDICATED ON PLAN ELEVATION= 37.94 (NAVD88)
- HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO OPERATE OVER THE LIMITS OF THE SEWAGE DISPOSAL FIELD DURING THE COURSE OF CONSTRUCTION OF THE SYSTEM.
- NO FIELD MODIFICATIONS TO THE SEWAGE SYSTEM SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER AND THE LOCAL BOARD OF HEALTH.
- UNLESS OTHERWISE NOTED ALL SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSION OF 310 CMR 15.000 (TITLE V) AND ANY APPLICABLE LOCAL RULES.
- SEPTIC TANK AND D-BOX SHALL BE MANUFACTURED BY ACME SHOREY PRECAST OR APPROVED EQUAL AND SHALL WITHSTAND H-10 OR H-20 (AS INDICATED ON PLAN) LOADING CRITERIA. GROUT TO BE USED AT ALL POINTS WHERE PIPES ENTER OR LEAVE ALL CONCRETE STRUCTURES IN ORDER TO PROVIDE A WATERTIGHT SEAL. MORTAR ALL INLET AND OUTLETS NOT USED ON ALL CONCRETE STRUCTURES.
- THE FIRST TWO FEET OF EACH LINE EXITING THE DISTRIBUTION BOX SHALL BE LEVEL.
- THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE GRINDER.
- THERE ARE NO KNOWN WELLS WITHIN 100' OF THE PROPOSED SOIL ABSORPTION SYSTEM.
- IN ACCORDANCE WITH 310 CMR 15.221, ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE.
- INSTALLER SHALL BE TRAINED AND CERTIFIED BY INFILTRATOR WATER TECHNOLOGIES, LLC FOR INFORMATION ON THE INFILTRATOR QUICK4 CHAMBER. SEE CERTIFICATION FOR GENERAL USE TRANSMITTAL NUMBER X259183 DATE OF ISSUANCE FEBRUARY 19, 2015 REV. JUNE 12, 2015. ALSO SEE STANDARD CONDITIONS FOR ALTERNATIVE SOIL ABSORPTION SYSTEMS WITH GENERAL USE CERTIFICATION AND/OR APPROVED FOR REMEDIAL USE REVISED: MARCH 5, 2018.
- THE PROPERTY IS LOCATED IN A ZONE II (WELL HEAD PROTECTION AREA).
- LOCATION OF UTILITIES ARE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION AND INVERTS OF UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE UNDER MASSACHUSETTS STATE LAW TO NOTIFY DIGSAFE (1.888.DIG.SAFE) TO LOCATE UTILITIES IN THE PROJECT AREA 72 HOURS PRIOR TO THE START OF EXCAVATION.



**CROSS SECTION OF BED**  
NOT TO SCALE

**TOP VIEW**



**QUICK 4 PLUS STANDARD INFILTRATOR CHAMBER WITH END CAP**  
NOT TO SCALE

REV	DATE	DESCRIPTION	BY	APP.
1	8/14/23	ADDED NITROE WWT'S	PJK	RSR

MILL POND INVESTMENT TRUST  
THOMAS W. LITTAUER, TRUSTEE  
288 JERUSALEM ROAD  
COHASSETT, MA 02025

08/14/2023



**RiverHawk**  
ENVIRONMENTAL  
CIVIL ENGINEERING & ENVIRONMENTAL CONSULTING  
2183 OCEAN STREET, MARSHFIELD, MA 02050  
781-536-4639 www.riverhawkllc.com

**SITE PLAN**  
1 MILL POND ROAD  
TRURO, MA

**DETAILS**

PROJECT NO. 00381-03-01  
SCALE: AS SHOWN  
DATE: JULY 13, 2023

**D1.1**



## Emily Beebe

---

**From:** John F. Noons, Inc. <admin@jfnoons.com>  
**Sent:** Tuesday, August 8, 2023 1:30 PM  
**To:** Emily Beebe; Laurie DeCiantis  
**Subject:** 97 Castle Rd informal septic inspection

Good afternoon Emily and Laurie,

The following is the information you requested regarding the cesspool located at 97 Castle Rd. M/P 46-007  
The inspection was done by Jeff Rose of John F. Noons Inc. on 8/1/2023

The cesspool consists of dome and body blocks. It is 4 feet deep and has 6 inches of water in the bottom. The distance from the water level to the inlet pipe is 2 feet, 6 inches. There is no scum layer and the solids in the bottom are 2 to 3 inches deep. The sides of the cesspool are clean with no root infiltration. Sand in holes looks good.

There were a few dome blocks that have fallen in, but this can be repaired. They do not make these blocks anymore, so we would need to dig up the top rows and replace them with the new style blocks. In my opinion with this repair, the cesspool will be adequate for a long time with the same use it has had.

Thanks,  
Linda Noons-Rose

**John F. Noons, Inc**  
(508) 487-1199  
6 Noons Heights Rd  
P.O. Box 23  
N. Truro, MA 02652

**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.



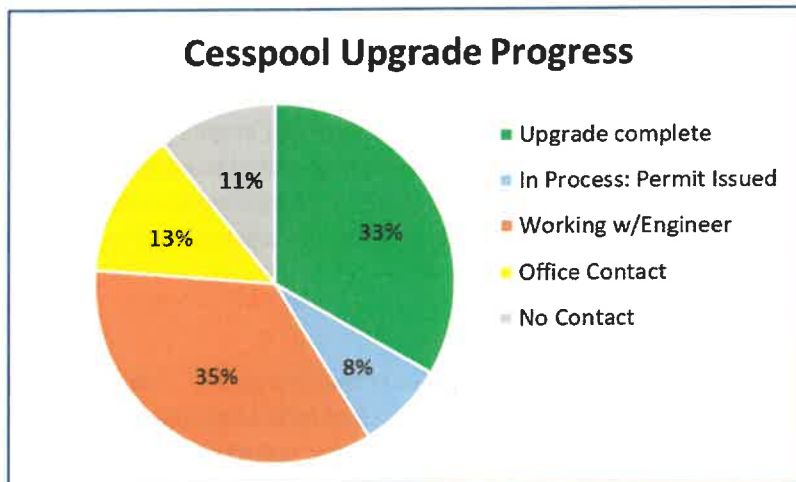


**TOWN OF TRURO**  
**HEALTH & CONSERVATION DEPARTMENT**  
24 Town Hall Road, Truro 02666  
508-349-7004 x119

Memo to: Truro Board of Health  
From: Emily Beebe, Truro Health & Conservation Agent  
Date: August 15, 2023  
Re: **Water Resources Update August 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. 35% are working with engineers and 13% have contacted our office with questions but may not yet be under contract with an Engineer/designer. The number is shrinking, but we still have not been able to make direct contact with 19 homeowners, and we have not yet heard from them. To date, we have verified that none of the 19 properties are registered rental properties, and 4 of them are non-habitable/abandoned.



**Regarding Administrative Consent Orders (ACOs).** An ACO is a legal agreement between the Board of Health and a property owner regarding the timing of upgrades or connection to sewer facilities. Property owners may be required to pay into an escrow account to fund either the upgrade or potential future sewer connection. ACOs will be processed as Board of Health variance requests. We have scheduled 2 draft ACOs to come before the Board on September 5 for discussion. We have numerous property owners, with whom we have been having process-oriented discussions.

**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:

- A draft Stormwater and Sediment control bylaw will be advanced to the Fall Town Meeting on October 21.
- A public meeting was held at the August Conservation Commission meeting for additional discussion and comments.



- Stormwater is currently addressed in our curb-cut policy.
- The goal of the draft Stormwater bylaw is to add accountability for private property owners to properly address stormwater flows on their own property by requiring it not to runoff into public ways.
- This version of the By-Law is meant to be a starting point that can be supported by other local regulations, such as the Conservation Commission regulations and Board of Health regulations. These supplemental regulations can target areas of jurisdiction that are of special concern, such as wetland resource areas, and the Zone II's of Public Water supplies. The general bylaw can also be amended in the future as needed.

#### **Regarding changes to Title 5, and TMDL NSAs**

Changes to Title 5 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.

Truro does not have a TMDL for nitrogen so the change in regulations does not apply to most of Truro at this time. However, a portion of South Truro is in the area covered by the Wellfleet Harbor Watershed permit. This permit is still under review with the DEP but should be approved soon. For a map of this area see [Nitrogen Sensitive Areas Address Lookup \(arcgis.com\)](#)

Since East Harbor and the Pamet River are impaired water bodies, the Town is 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 which will guide 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:**

Health Department staff met with Scott Horsley on August 10<sup>th</sup> to discuss the changes to Title 5 and how they will impact Truro. Discussions revolved around the timing for the use of best available technology (BAT) systems and their costs as well as when Truro would know its targets for reduction of nitrogen pollution. In late July the Health Agent met with Provincetown staff regarding the feasibility of connection to the Provincetown sewer system, and a follow-up meeting with GHD is going to be scheduled during the week of August 21.

#### **Water Resources discussion with Provincetown:**

The Provincetown-Truro staff/consultant team met again in late July to continue discussion around the peer review of past and present modeling. This work is moving forward, and we expect to have detail to report out this fall.

**Minutes of the Truro Board of Health, Tuesday July 18, 2023**

This was a remote meeting.

**Board members in attendance:**

Chair Tracey Rose, Vice Chair Jason Silva; Board Members: Helen Grimm, Brian Koll, Tim Rose and alternate Candida Monteith;

Also Present: Health Agent Emily Beebe, Assistant Health Agent Courtney Warren, Anastasia Rudenko, GHD, Scott Horsley, GW consultant, Dan Gates & Eliza Morrison from CC AIDS Support group, Alex Nelson, Network coordinator for Outer Cape Community Solutions

The meeting was called to order at 4:01 PM by the Chair, who described the remote meeting procedures and the process for public participation.

**PUBLIC COMMENT:** Jack Reimer asked for a future agenda item to discuss what advanced treatment systems are available for use. Karen Ruymann, spoke on behalf of the Friends of the Village Pond Water Shed, requesting the help of the BoH and the Health Department, to promote the passage of the stormwater bylaw together.

Mr. Hickey was at the Local comprehensive planning meeting where there was brief discussion on returning some of the treated wastewater from Provincetown to the Pamet lens, and he was concerned about this and wanted more information. Jack Reimer pointed out that the Truro Motor inn had evicted its last tenant. He would like to see an agenda item about how the Truro Motor inn might be used to support the housing needs of the Town.

**CWWMP Discussion with GHD/Scott Horsley-** Anastasia Rudenko from GHD shared her screen to share a PowerPoint presentation with the Board about development of the Comprehensive management plan.

They will be looking at different options for the Town to manage wastewater, both on-site system options and the feasibility of centralized treatment. They have been meeting with Jim Vincent of Provincetown to discuss possible inclusion of the Beach Point area (between 147 and 706 Shore Road) into the Provincetown wastewater treatment system. They also will look at expansion options and cost effectiveness of different technologies.

She referenced the 604b study done by SMAST at UMASS Dartmouth and the towns of Truro and Provincetown, to evaluate marine water quality impacts.

We have understood that a connection is possible by 2030, based on funding in part by the USDA.

The Town has indicated that they continue to include a placeholder volume that represents Truro's GPD (gallons per day) for existing development.

Scott Horsley added that the possible addition of Truro's wastewater to the Provincetown system would be a great benefit to the environment of East Harbor, and Cape Cod Bay.



Jack Reimer asked Anastasia about the reason there are impacts to East Harbor and Cape Cod Bay. Anastasia stated it was nitrogen from development, as well as the geology of the area, where groundwater is very shallow. Sue Areson asked if the new culvert to East Harbor would improve the water quality. The Health Agent responded that the new culvert was a 1:1 replacement and would improve conditions as the old pipe had been so deteriorated, as to restrict flow- but a more significant exchange is still needed; this will not be possible until the DOT decides to come to the table to address/enlarge their infrastructure. Sue pointed out that she thought the main issue was storm water draining from Route 6 right into East Harbor which was quite visible when kayaking in the water body. Jack Reimer asked if the 150,000 gpd would be a no net increase?

Board member Jason Silva asked if the clean water protection fund would possibly be funding that we could get. Scott Horsley responded that the timing was important, and that it would get much more expensive were we to wait. The Agent pointed out that the opportunity for funding would be enhanced with the addition of Truro to the USDA application.

Board member Brian Koll asked if the letter should include a time frame for the letter to try to frame a schedule. The Agent agreed. The letter would initiate the discussions to determine the feasibility and financial implications. Board member Helen Grimm asked about the environmental/financial difference between I/A and sewerage.

Anastasia's answer was that environmentally, sewerage removes the nutrient load out of the watershed, as opposed to using an I/A to just reduce the load. Once the costs have been outlined the feasibility will become clear. Jason Silva raised his concerns about the flood plain, and sea-level rise. Scott Horsley's opinion was that a sewer line would be much more resilient to changing environmental conditions than would on-site systems.

**Motion: Board member Helen Grimm moved to move the letter of support forward by the end of October; Second: Board member Brian Koll; Vote: 5-0-0; the Motion passed.**

**Presentation by the AIDS Support Group of Cape Cod (ASGCC) - Harm Reduction Services, NARCAN & Syringe Service Programming** Director Dan Gates and Eliza

Morrison presented a power point of ASGCC's Harm Reduction Services, updates on ASGCC work to provide Fentanyl test strips on the Outer Cape, NARCAN distribution and NARCAN training programs, and their mobile outreach services. They also provided information regarding their syringe service programming that they were seeking available funding from MA Department of Public Health and sought a letter of support. Board members were enthusiastically in support.

**Motion: Board member Brian Koll moved to approve a letter of support for funding through Mass DPH; Second: Board member Helen Grimm; Vote: 5-0-0**

**Request to appear before the Board of Health:** 82 Shore Rd, Salt Air Condominium, septic failure – Arnie Greenfield, trustee, and Glenn Harrington, RS, were on the call to represent the condo association. Septic system #1 has failed and septic system #2 needs further evaluation. The original design was for 19 bedrooms but there are only actually 16 bedrooms. A water test

including ammonia has been done and Glen Harrington is beginning to do the new septic design. They are looking into funding for replacing both systems, but they are requesting permission to upgrade in stages depending on funding. The Health Agent noted that this is a mid-1980s system and that she supported upgrading in stages. The Board agreed and since this was simply a discussion, there were no motions were made.

**Local Upgrade Approval/Variance Request:** 398 Shore Rd, Cottage Realty Trust

To accommodate the Conservation Commission, John O'Reilly updated the plan to move the leaching area under the deck and septic tank as far away from the dune as possible.

Consequently, a variance to the crawl space and to the property line are now required. The Agent suggested that the Board develop a finding that the standards of review have been met. The Board discussed whether the design provided environmental protection equivalent to that required by the code, and found that it did. Board member asked the homeowners if the property is seasonal and if it is rented. It is seasonal and is not rented. **Motion: Board member Jason Silva moved to approve the variances has requested with the condition that this be revisited within one year for a potential ACO. Second: Board member Tim Rose; Vote: 5-0-0; Motion carries.**

**Local Upgrade Approval/Variance Request:** 462 Shore Rd, Cousins Family Revocable Trust

Stephanie Sequin from Ryder & Wilcox described the property and the variances that are requested (setback from property lines, water lines, from foundation/slab). The Board discussed whether the design provided environmental protection equivalent to that required by the code and found that it did. **Motion: Board member Jason Silva moved to approve the variances has requested with the condition that this be revisited within one year for a potential ACO. Second: Board member Tim Rose; Vote: 5-0-0; Motion carries.**

**Local Variance Request:** 6 Toms Hill Path, Thomas D. France et al

Stephanie Sequin from Ryder & Wilcox described the large property with two buildings with a total of seven bedrooms. The property is served by one old septic system and two cesspools. They propose to abandon the cesspool serving the main house and connect that flow to the exist '78 code septic system. The guest studio would be served by a separate title 5 system. A variance to the requirement for I/A is being requested for this seasonal property. Various options were discussed including deed restrictions. The representative requested a continuance so that options could be further evaluated. **Motion: Board member Brian Koll moved to continue the matter until the August 1, 2023, meeting. Second: Board member Helen Grimm; Vote: 4-0-0 (Tim Rose had left the meeting); Motion carries.**

At the request of the applicants, the following agenda items are requesting a continuance until the August 1, 2023, meeting. The board acted on all of these together.

**Local Variance Request:** 24 Cliff Rd, Blair & Paul Resika



**Local Variance Request:** 5 Valentina Way, Estate of Marguerite Yannetty

**Local Upgrade Approval/Variance Request:** 7 Amity Ln, Irene Selver

**Local Upgrade Approval/Variance Request:** 38 Toms Hill Rd, Tina Ryman *et al.*

**Motion:** Board member Brian Koll moved to continue 24 Cliff Rd, 5 Valentina Way, 7 Amity Lane, and 38 Toms Hill Rd until the August 1, 2023, meeting. **Second:** Board member Helen Grimm; **Vote:** 4-0-0; **Motion carries.**

**1. Water Resources Update –**

The agent updated the board on the cesspool upgrade process. An enforcement strategy is being developed and ACOs may play an important role in this particularly as some properties have legal issues.

**Stormwater Regulations** – We are moving forward with getting a draft of a proposed stormwater by-law ready for the Fall Special Town Meeting. There will be other opportunities for comment.

**Title 5 Changes** – Most of Truro will not be immediately impacted but some of South Truro falls into the Wellfleet Harbor Watershed and will need to add enhanced I/A sooner than the rest of town.

Jack Riemer asked several questions including about the draft stormwater regulations, about enhanced I/A, and about the Comprehensive Wastewater Management Planning process.

**IV. MINUTES**

Minutes March 2, 2023: **Motion:** Board member Jason Silva moved to approve the minutes as written. **Second:** Board member Helen Grimm. **Vote:** 4-0; **Motion carries.**

Minutes May 2, 2023 : **Motion:** Board member Brian Koll moved to approve the minutes as written. **Second:** Board member Helen Grimm. **Vote:** 4-0; **Motion carries.**

**V. REPORTS** – In the interest of time, both of these reports were advanced to the next meeting.

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

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

**The meeting was adjourned at 7:16 P.M.**

Minutes prepared by Emily Beebe and Courtney Warren.

From the Association to Preserve Cape Cod website:

<https://apcc.org/our-work/advocacy/protecting-cape-cod-bay/>

## Protecting Cape Cod Bay Against Holtec's Radioactive Waste

[Home](#) / [Our Work](#) / [Advocacy](#) / [Protecting Cape Cod Bay...](#)

Issue in brief: As part of the decommissioning of the Pilgrim Nuclear Power Station, an effort APCC supports, Holtec International has proposed discharging over a million gallons of radioactive water into Cape Cod Bay. The Massachusetts Department of Environmental Protection recently issued a preliminary denial of Holtec's permit application to discharge the wastewater into Cape Cod Bay. The denial is based on the Oceans Sanctuaries Act state law, which prohibits new industrial discharges of pollutants into Massachusetts waters designated as ocean sanctuaries. APCC is fully committed to forcing Holtec to respect the law and to preventing the use of Cape Cod Bay as a dumping ground.

The draft denial cannot be finalized until after a 30-day public comment period. The comment period runs through Aug. 28 at 5 p.m.

The public can submit comments electronically to: [massdep.npdes@mass.gov](mailto:massdep.npdes@mass.gov) or written comments can be submitted to: MassDEP Surface Water Discharge Permitting Program, 100 Cambridge St., Suite 900, Boston, MA 02114.

### TAKE ACTION!

The draft decision has it right, the Ocean Sanctuaries Act is clear, DEP's action reflects the law and there is no other basis to do anything other than to finalize this decision. Send your comments to DEP by August 28th. Here's a sample message.

Dear Commissioner Heiple,

I strongly agree with DEP's draft determination to deny Holtec International's permit application to discharge wastewater from Pilgrim Nuclear Power Station into Cape Cod Bay. DEP's permit denial correctly interprets the Ocean Sanctuaries Act, which explicitly states that discharges such as the one pursued by Holtec are prohibited under state law. I urge DEP to move forward in finalizing its draft decision based on state law requirements and issue a permit denial to Holtec that prevents Pilgrim's wastewater from being released into the Cape Cod Bay Ocean Sanctuary.

Thank you,

[Your Name]

[Your Address]