

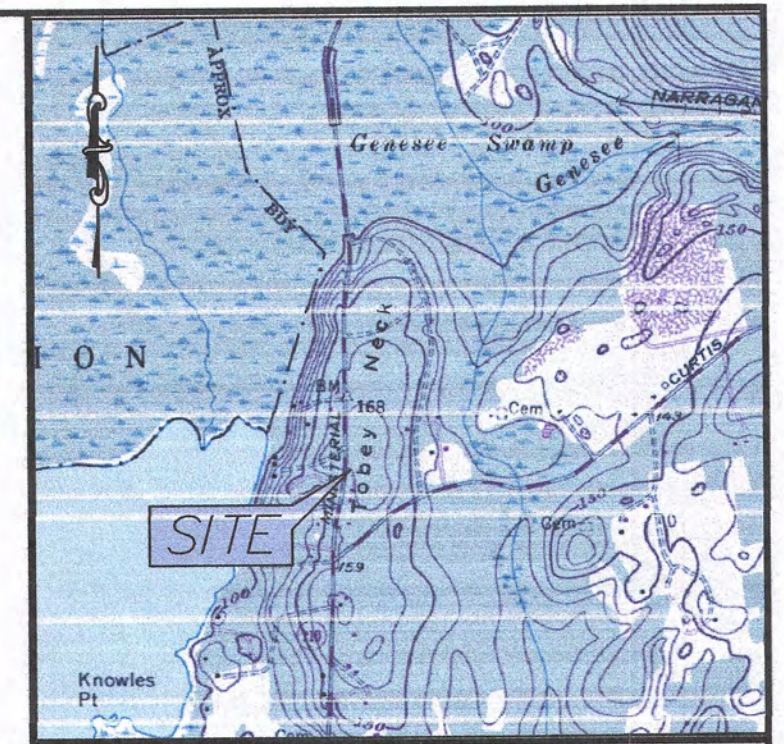
G:\Land Projects\8483001 PERSSON MINISTERIAL RD SK.dwg, 2/14/2023 5:54:21 PM, Canon IPF785-18x24.pcs

MAP 46
LOT II #2014
N/F
JOSEPH R.
KOSIAREK
.0998/0178

MAP 46
LOT 71
N/F
DONNA MAY
(VACANT LAND)
BK.1416/0629

MAP 46
LOT 71
BK.1832/Pg.0184
168,577 SF
3.87 AC

MAP 46
LOT 70 # 2005
N/F
KRISTI MARESCO &
GREG CRAWFORD
BK.1577/0674



LOCUS MAP N.T.S.

LEGEND

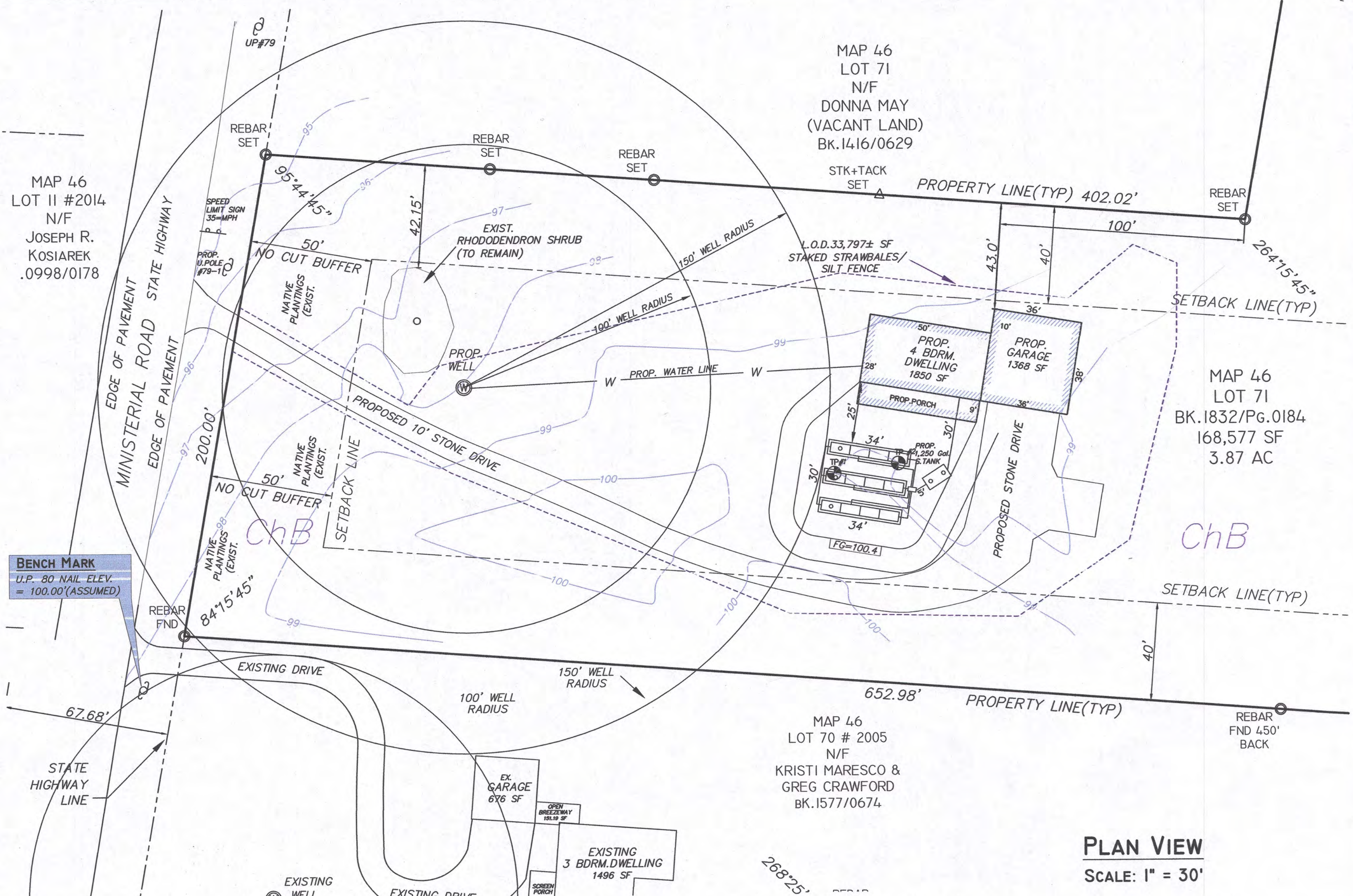
- 21- - - EXISTING CONTOUR
- 21- - - PROPOSED CONTOUR
- - - ROAD EDGE
- - - PROPERTY LINE
- - - ABUTTERS PROPERTY LINE
- I.P. IRON PIN FND
- U.P. 24 UTILITY POLE
- W WELL
- T TEST PIT LOCATION
- D.H. DRILL HOLE FND

OWTS SITE PLAN PROPOSED HOUSE

PREPARED FOR:
ROBERT PERSSON
3683 TOWER HILL RD
WAKEFIELD RI 02879

FOR PROPERTY LOCATED ON:
MINISTERIAL ROAD

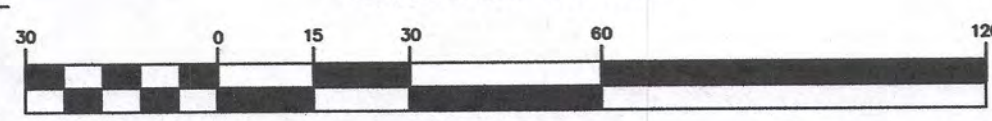
IN THE TOWN OF:
SOUTH KINGSTOWN, RHODE ISLAND
MAP 46, LOT 71
R 80 ZONING



PLAN VIEW

SCALE: 1" = 30'

GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.

PROPERTY OWNERS OF RECORD:

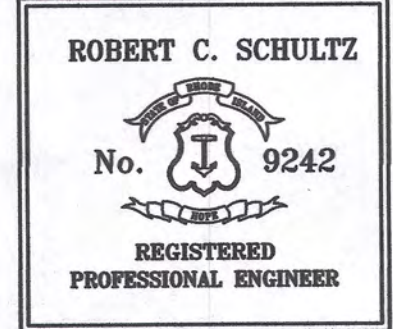
ROBERT PERSSON & MARY D. PIERCE
3683 TOWER HILL ROAD
WAKEFIELD, RI 02879

R80 ZONING DATA

BUILDING SETBACKS:
REQUIRED PROPOSED

FRONT: 50' >50'
SIDE : 40' >40'
REAR : 50' >50'
FRONTAGE: 200' 200'

MIN.LOT SIZE : 80,000 SF
EXISTING LOT SIZE: 168,577 SF (3.87 AC)
MAX.ALLOWABLE LOT COVERAGE: 20%
PROP.LOT COVERAGE: 1.64% (2,768 SF±)



CLASS II DESIGNER NOTES

- A. THE INSTALLER IS REQUIRED TO NOTIFY THIS DESIGNER OF INTENTION TO START CONSTRUCTION OR GRADING OF THIS SITE 10 (TEN) DAYS PRIOR TO START OF SITE WORK. THE INSTALLER'S TELEPHONE NUMBER & LICENSE NUMBER SHALL BE FURNISHED TO THIS DESIGNER FOR COORDINATION OF PROPOSED WORK.
- B. SITE LAYOUT & REQUIREMENTS TO BE MADE BY THIS DESIGNER ARE AS FOLLOWS:
 1. STAKEOUT OF LEACHING FIELD.
 2. AND ALL ADDITIONAL CIRCLED TERMS OF APPROVAL AS STATED ON APPROVED OWTS APPLICATION.
- C. THE APPLICANT AND THE INSTALLER ARE RESPONSIBLE FOR ANY AND ALL CHANGES IN THE SHOWN DESIGN & INCLUDE THE FOLLOWING:
 1. NEW APPLICATIONS AS REQUIRED BY DEM GUIDELINES.
 2. AS-BUILT LOCATIONS, REQUIRED PLANS & ALL ASSOCIATED COSTS.
 3. COMMUNICATION OR COORDINATION WITH THIS DESIGNER & STAFF.
- D. THE INSTALLER IS TO PROVIDE DESIGNER W/ MATERIALS RECEIPTS FOR ALL CONSTRUCTION MATERIALS PRIOR TO DESIGNER ISSUING CERTIFICATE OF CONSTRUCTION.
- E. THE ABOVE ARE MINIMUM REQUIREMENTS & SHALL BE REVISED AS THIS DESIGNER DEEMS NECESSARY FOR PROPER FUNCTIONING OF THE SHOWN DESIGN.

NOTES:

- 1.) THIS SITE IS NOT LOCATED WITHIN AN IDENTIFIED FLOOD ZONE ACCORDING TO FLOOD INSURANCE RATE MAP FOR THE WASHINGTON COUNTY COMMUNITY PANEL NUMBER 44009C0193J. MAP EFFECTIVE DATE OCTOBER 16, 2013.
- 2.) THE SUBJECT SITE DOES NOT LIE WITHIN A NATURAL HERITAGE AREA. SUBJECT SITE DOES NOT LIE WITHIN A COASTAL POND CRITICAL RESOURCE AREA.
- 3.) REFERENCE PLAN ENTITLED "LOT PLAN FOR A LAND LOCATED MINISTERIAL ROAD SOUTH KINGSTOWN, RHODE ISLAND FOR FRANK MAY, SALMON BROOK CORPORATE PARK, 655 WINDING BROOK DRIVE, GLASTONBURY, CT.06033-5087.
BY: ENVIRONMENTAL CONSULTANTS INC. DUGWAY BRIDGE ROAD, WEST KINGSTON RI. 02892.
DATE: 3/9/1988. SCALE: 1" = 50'."

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#	DATE	DESCRIPTION	BY
1	11/24/22	CLIENT CHANGES (NOTES)	ZMD

DRAWN BY: **AHH/ZMD** DATE: **NOV., 2022**

CHECKED BY: **WGIII** DRAWING #: **8483001**

JOB #: **8483001** SHEET: **1 OF 2**

ENVIRONMENTAL PLANNING & SURVEYING, INC.



CIVIL ENGINEERING
SURVEYING
CAD DRAFTING

52 DUGWAY BRIDGE RD., WEST KINGSTON, RI 02892 (401) 789-3628

SYSTEM ELEVATIONS

INV. OUT BLDG.	99.90
INV. IN SEPTIC TANK	98.60
INV. OUT SEPTIC TANK	98.35
INV. IN D-BOX	98.30
INV. OUT D-BOX	98.13
INV. OF FLOW DIFFUSORS	97.96
BOTTOM OF FLOW DIFFUSORS	97.00
BOTTOM OF STONE	96.00
WATER TABLE (8.0')	91.00
MINIMUM COVER OVER SYSTEM	99.46
MAXIMUM COVER OVER SYSTEM	100.46

TEST HOLE RESULTS

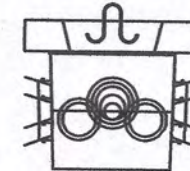
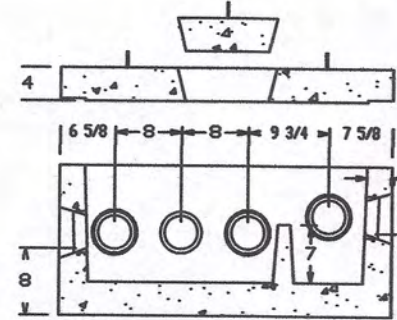
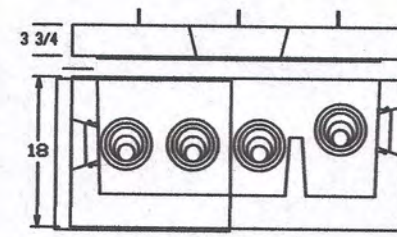
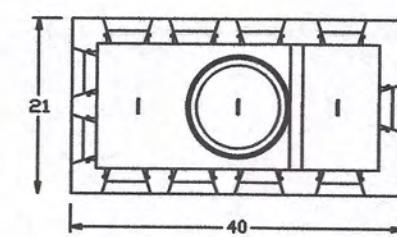
DATE OF TEST 8-10-22
TEST HOLE -1. EL 99.00

WATER TABLE 8'
LEDGE N/F@ 8'

TEST HOLE -2. EL 98.99

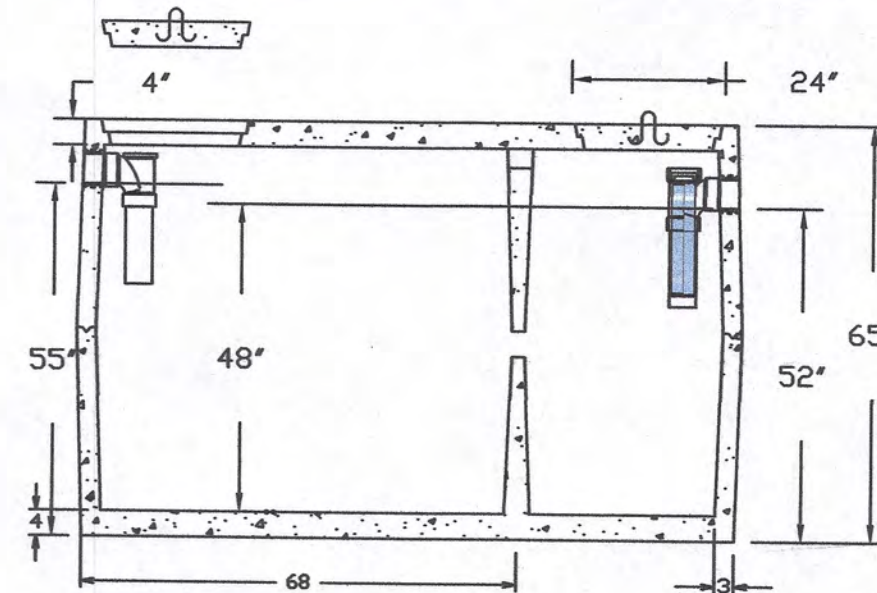
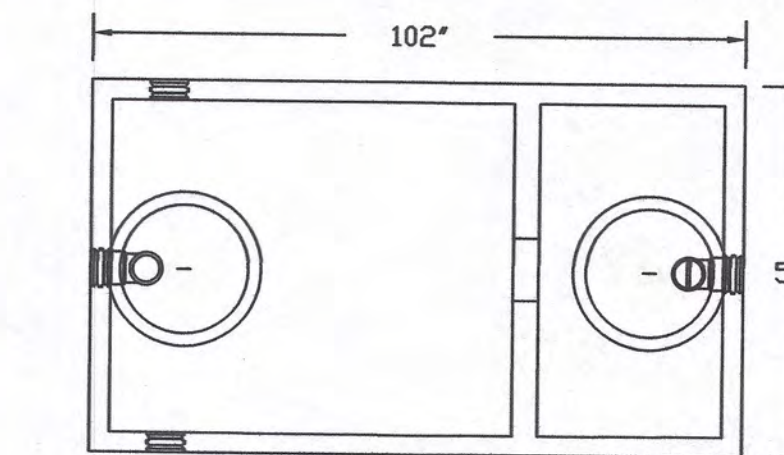
WATER TABLE 8'
LEDGE N/F@ 8'

DESIGN RATE= 0.61 GPD/SF
SOIL CAT. 1m



II HOLE DISTRIBUTION BOX
N.T.S.

- DESIGN NOTES**
- 1) THREE INLETS EIGHT OUTLETS.
 - 2) INLETS AND OUTLETS HAVE STATE APPROVED SEALS THAT ACCEPT 4" S-40, 4" SDR-35, 3" AND 2" PIPE
 - 3) TYPE II CEMENT ASTM C150-81
 - 4) CONCRETE STRENGTH 5000 PSI. MIN. 28 DAYS
 - 5) MEETS H-20 WHEEL LOAD



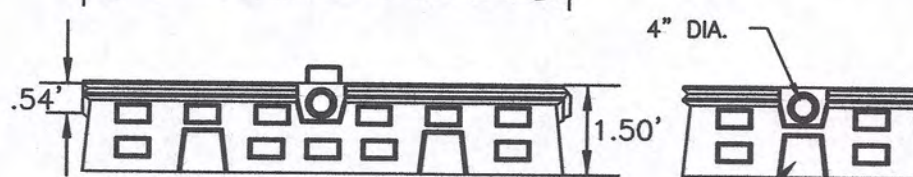
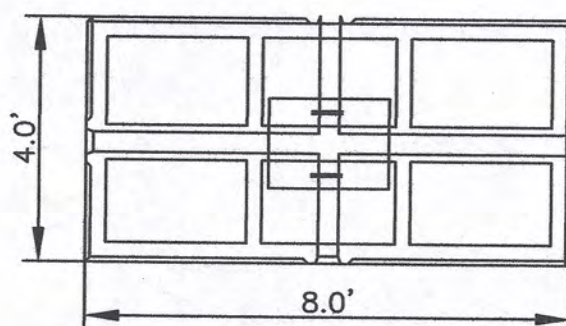
TYPICAL 1,250 GAL. DUAL COMPARTMENT SEPTIC TANK

DESIGN CALCULATIONS:

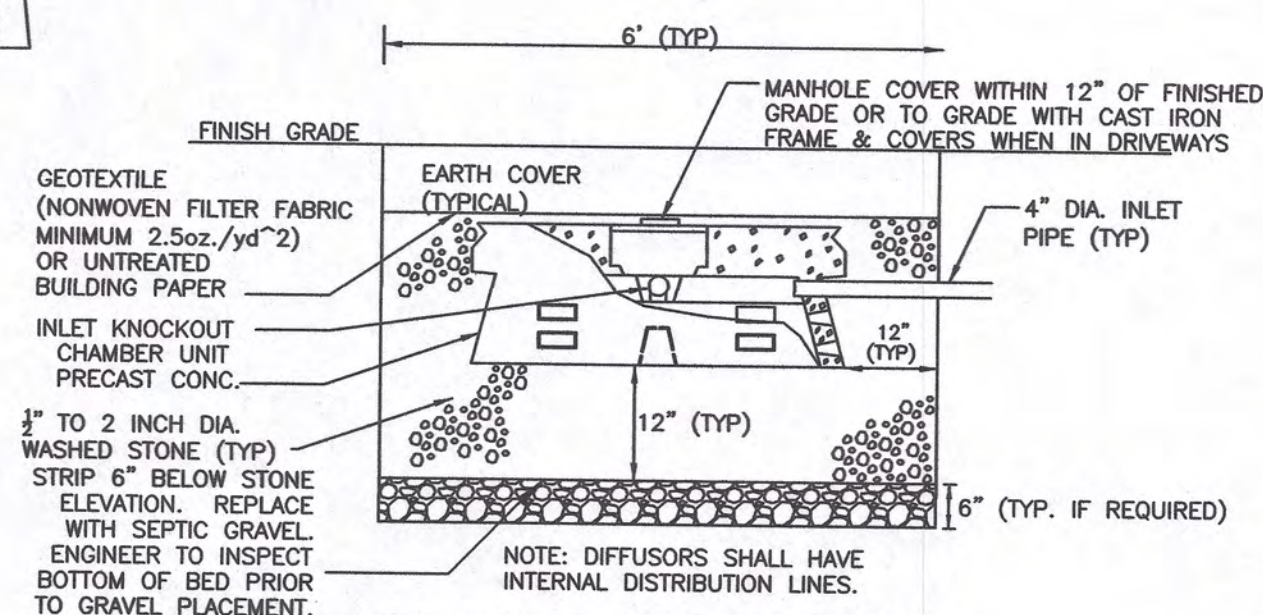
4 BEDROOMS x 115 GPD/BED = 460 GPD + 0.61 GPD/SF = 754 SF REQUIRED
(6 ENDS @ 78 = 658 SF + 6 INT. @ 64 = 384 SF) TOTAL = 852 SF
3 ROWS OF 4 FLOW DIFFUSERS W/ 12" OF STONE = 852 SF PROVIDED

NOTES

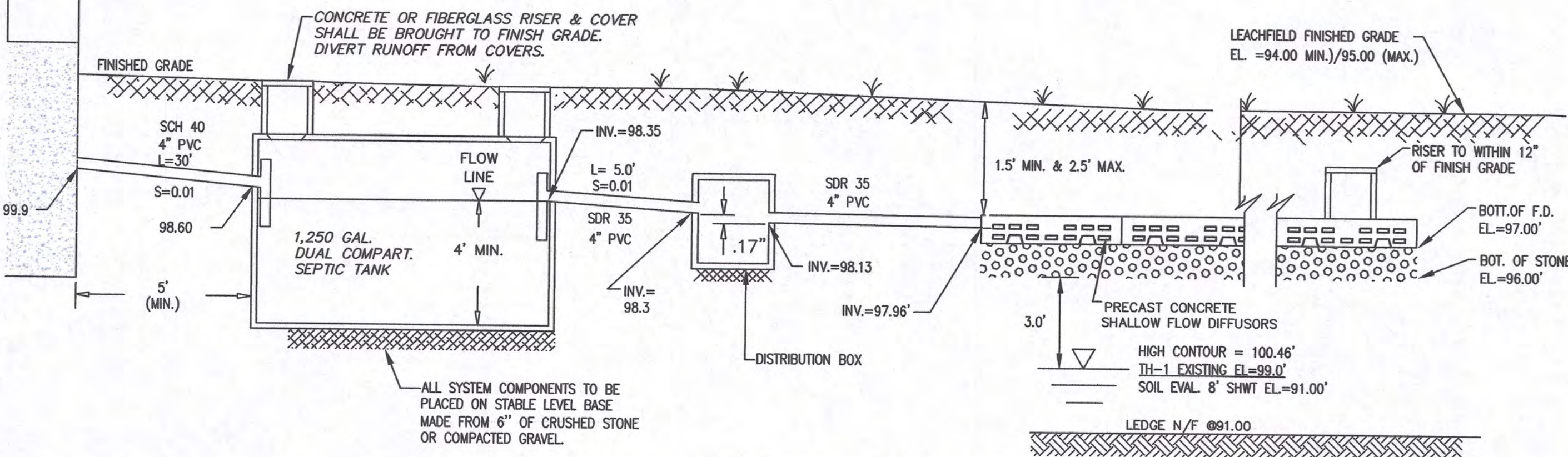
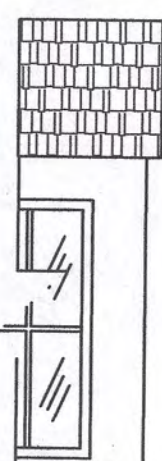
1. SEPTIC TANKS, GREASE TANKS, PUMP TANKS, HOLDING TANKS, CONCRETE CHAMBERS AND CESSPOOLS THAT ARE NO LONGER IN USE SHALL BE PROPERLY ABANDONED. THE STRUCTURE SHALL BE EMPTIED OF ALL WASTES AND THEN EITHER REMOVED, FILLED WITH CLEAN SAND OR CRUSHED AND THE AREA BACKFILLED WITH CLEAN SOIL.
2. THERE ARE NO WELLS EXISTING OR PROPOSED WITHIN 200 FEET OF THE PROPOSED OWTS NOR ANY OTHER OWTS WITHIN 100 FEET OF PROPOSED WELLS, EXCEPT AS NOTED.
3. BENCHMARK TO BE SET WITHIN 150 FEET OF THE PROPOSED OWTS PRIOR TO CONSTRUCTION.
4. CLEAR ALL TREES, BRUSH AND STUMPS WITHIN 10 FEET OF THE PROPOSED SYSTEM.
5. THERE SHALL BE NO ON-SURFACE, FOUNDATION DRAIN, OR ANY OTHER TYPE OF DRAIN WITHIN 25 FEET OF THE PROPOSED SYSTEM.
6. MAINTAIN MINIMUM INVERT ELEVATION OF 105.00 FOR 10 FEET AROUND SYSTEM PERIMETER.
7. THERE SHALL BE ONE FOOT OF PROCESSED STONE UNDER, AND ONE FOOT OF PROCESSED STONE AROUND FLOW DIFFUSERS.
8. ALL PIPE TO BE SCHEDULE SDR35 OR EQUAL FOR ENTIRE SYSTEM UNLESS SUBJECT TO VEHICULAR TRAFFIC IN WHICH CASE SCHEDULE 40 PVC SHALL BE REQUIRED OR AS OTHERWISE NOTED.
9. LOAM AND SEED SYSTEM AREA.
10. DETAILED OWTS SPECIFICATIONS ARE SHOWN ON THIS DRAWING.
11. ALL WASTEWATER TREATMENT SYSTEMS SHALL CONFORM TO THE TERMS AND CONDITIONS SPECIFIED IN THE LATEST EDITION OF: RULES ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS OF THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS, DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
12. COMPLY WITH ANY ADDITIONAL TERMS OF APPROVALS AS MAY BE REQUIRED BY THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
13. NO PUBLIC SEWERS WITHIN 200' OF PROPERTY.
14. THERE ARE NO PUBLIC WELLS EXISTING OR PROPOSED WITHIN 500 FEET OF THE PROPOSED SYSTEM.



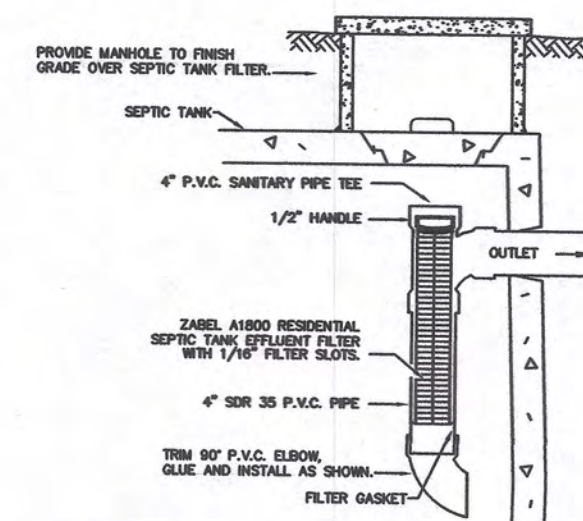
TYPICAL FLOW DIFFUSER
N.T.S.



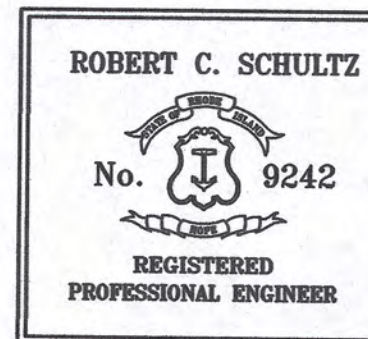
TYPICAL CROSS-SECTION THRU FLOW DIFFUSERS
N.T.S.



TYPICAL PROFILE OF FLOW DIFFUSER SYSTEM
N.T.S.



TYPICAL ZABEL FILTER
N.T.S.



OWTS DETAIL PLAN
PROPOSED HOUSE
PREPARED FOR:
ROBERT PERSSON
3683 TOWER HILL RD
WAKEFIELD RI 02879
FOR PROPERTY LOCATED ON:
MINISTERIAL ROAD
IN THE TOWN OF:
SOUTH KINGSTOWN, RHODE ISLAND
MAP 46, LOT 71
R 80 ZONING

#	DATE	DESCRIPTION	BY
DRAWN BY:	AHH/ZMD	DATE:	NOV., 2022
CHECKED BY:	WGIII	DRAWING #:	8483001
JOB #:	8483001	SHEET:	2 OF 2



ENVIRONMENTAL PLANNING & SURVEYING, INC.
CIVIL ENGINEERING
SURVEYING
CAD DRAFTING



**RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
ON-SITE WASTEWATER TREATMENT SYSTEM CONSTRUCTION PERMIT**



www.dem.ri.gov/septic

FOR RIDEM USE ONLY

APPLICATION No. _____ DATE RECEIVED ____/____/____ AMOUNT RECEIVED \$ _____ CHECK # _____ NOTE _____

TYPE OF APPLICATION (CHECK ALL THAT APPLY)

- | | |
|---|--|
| <input checked="" type="checkbox"/> NEW BUILDING CONSTRUCTION | <input type="checkbox"/> A/E TECHNOLOGY TYPE _____ |
| <input type="checkbox"/> ALTERATION | <input type="checkbox"/> VARIANCE |
| <input type="checkbox"/> REPAIR | <input type="checkbox"/> REDESIGN |
| <input type="checkbox"/> TRANSFER | <input type="checkbox"/> JOINT OWTS / WETLANDS PD |

CERTIFICATION

I, Robert C. Schultz Jr. (print), the undersigned licensed OWTS designer, certify that I prepared this application and accompanying forms, submittals, plans and sketches in accordance with the RULES of the RIDEM pertaining to OWTS and that all the information provided on this application and accompanying forms, submittals, plans and sketches is true and accurate.

Designer's Signature _____ License # 3104

Designer's Email environmentalplanning@aol.com Phone # 401-789-3628

Business/Company Name Environmental Planning + Surveying, Inc.

I certify that a) I am the owner of the property indicated under the site information on this application, b) I will hire a licensed OWTS installer to install the system proposed herein, c) the system will be installed in strict accordance with this application, d) I will hire and retain the licensed OWTS designer of record to witness and inspect the installation of the system, e) I assume all responsibility for the truth and accuracy of this application and all liability and responsibility for any improper installations of the system on this site and agree to hold the RIDEM harmless from any and all claims relating whatsoever to the system. In the case of a transfer application, I acknowledge that the permit application and plans previously approved and accompanying this application are the operative documents subject to certification.

SITE INFORMATION

MINISTERIAL ROAD. SOUTH KINGSTOWN WP 80
NO. STREET CITY/TOWN POLE #
PLAT NUMBER 46 LOT NUMBER 71 SUBDIVISION LOT NUMBER _____
LOT SIZE 168,577 SF/ACRES
SUBDIVISION NAME N/A
SUBDIVISION SITE SUITABILITY CERTIFICATION # N/A

OWNER INFORMATION

PERSON ROBERT E.
LAST NAME FIRST NAME M.I.
MINISTERIAL ROAD. SOUTH KINGSTOWN. 02879
NO. STREET CITY/TOWN ZIP CODE

Owner's Phone Number _____

Owner's Email _____

Owner(s) Signature 

PERMIT APPROVAL SECTION: DO NOT WRITE BELOW THIS LINE

Based upon the representations of the owner and the owner's agents, including the representations of the owner's OWTS designer, and the truth and accuracy of all information submitted, this application for an OWTS is hereby approved. The RIDEM assumes no responsibility or liability for the future safe operation or maintenance of the aforesaid system, of the fitness or suitability of this system to this site, nor does it assume any responsibility for the accuracy and truth of the owner's, or the owner's agent's representations. This approval is subject to future suspension or revocation in the event that subsequent examination reveals any data indicated on any application, form, submittal, plan or sketch to be incorrect, or not in compliance with the RULES or any conditions at the site are such that the approved design is not in accordance with the RULES, or in the event that the system discharges inadequately treated wastewater to waters of the State or fails to operate satisfactorily in any other manner.

IMPORTANT: Additional terms of approval as circled.

- A. Bottom of leaching area excavation must be inspected by the RIDEM prior to placement of any gravel or stone.
- B. System installation must be inspected by RIDEM prior to covering any component of the system with backfill.
- C. Applicant shall comply with all requirements, conditions and stipulations of variance(s) approved on _____
- D. Joint Permit: Designer of record must contact RIDEM prior to start of any site construction.
- E. A/E Technology: additional installation, operation or maintenance requirements may apply (see A/E Technology Certification.)
- F. Copy of this form and Operation/Maintenance contract must be filed in land evidence records prior to conformance.
- G. Proposed construction falls within "Coastal Zone". Contact Rhode Island Coastal Resources Management Council.
- H. Proper erosion and sedimentation controls must be installed prior to start of construction.
- I. Transfer: See original permit for all applicable conditions.
- J. Other

RIDEM APPLICATION HISTORY

PREVIOUS SITE TESTING YES NO APPLICATION # _____
DEPTH TO APPROVED WATER TABLE 96" HOW DETERMINED SOIL TEST
TEST HOLE # 2 DATE EXCAVATED 8/10/22 WETLANDS within 200' OF OWTS YES NO
WETLAND DETERMINATION YES NO RIDEM FILE # _____ DATE ____/____/____
LARGE SYSTEM YES NO OCI FILE # IF APPLICABLE _____

DESIGN INFORMATION

BUILDING USE: Residential Commercial _____
 Other _____
WATER SUPPLY: public water public well private well
OF DESIGN UNITS 4
UNIT DESIGN FLOW _____ gallons per _____ (unit) TOTAL DAILY FLOW 460 gallons
TANK SIZE 1250 gallons DESIGN LOADING RATE 115 gpd/sf
MINIMUM REQUIRED LEACHFIELD AREA 852 ~~254~~ square feet
LEACHFIELD TYPE FLOW DIFFUSERS
TOTAL AREA OF LEACHFIELD PROVIDED 852 square feet

Signature of RIDEM Official _____	Date of Approval _____	Date of Expiration _____
-----------------------------------	------------------------	--------------------------



OWTS Permit#: 2232-0917

Location: Ministerial Road, South Kingstown

Plat/Lot: 46/71

Owner: Robert E. Persson

Designer: Robert Schultz

Total Daily Flow: Not available

For residential use, calculate approved number of bedrooms by dividing the Total Daily Flow by 150 gallons/bedroom for systems approved before 2008 or by 115 gallons/bedroom for systems approved in or after 2008.

Conformed File: No conformed file is available for download for this permit.

Historical Information:

03/28/2023	Cover Inspection Required
03/28/2023	Bottom Inspection Required
03/28/2028	Application Expiration Date
03/29/2023	Approval Mailed
03/28/2023	Application Approved
03/28/2023	Application Review
03/17/2023	New Building Construction App. Rec'd
08/23/2022	Site Evaluation Report Mailed

RECEIVED IN
PLANNING DEPARTMENT
MAR 30 2023
TOWN OF
SOUTH KINGSTOWN



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Environmental Management
Office of Water Resources
Onsite Wastewater Treatment System Program



Site Evaluation Form

Part A - Soil Profile Description

Application Number 2232-0917

Property Owner: ROBERT PERSSON

Property Location: MINISTERIAL ROAD, APT 46 LOT 71 SOUTH KINGSTOWN

Date of Test Hole: AUGUST 10, 2022

Soil Evaluator: David Kalen

License Number: D4052

Weather: OVERCAST 71°F/-

Shaded: Yes [checked] No []

Time: 8:30 AM

Table with 11 columns: TH Horizon, Depth, Horizon Boundaries (Dist, Topo), Soil Colors (Matrix, Re-Dox Features), Re-Dox (Ab., S., Contr.), Texture, Structure, Consistence, Soil Category. Contains two sections of soil profile data (TH 1 and TH 2).

TH 1 Soil Class B Total Depth 96" Impervious/Limiting Layer Depth N/A (og) GW Seepage Depth N/A SHWT 96t (og)

TH 2 Soil Class B Total Depth 96" Impervious/Limiting Layer Depth N/A (og) GW Seepage Depth N/A SHWT 96t (og)

Comments: (Do not use these results for other than designing onsite wastewater treatment or drainage systems)

N/R: Not reached VERY DRY SOILS

RECEIVED IN PLANNING DEPARTMENT

MAR 30 2023

TOWN OF SOUTH KINGSTOWN

Part B

Site Evaluation - to be completed by Soil Evaluator or Class II or III Designer

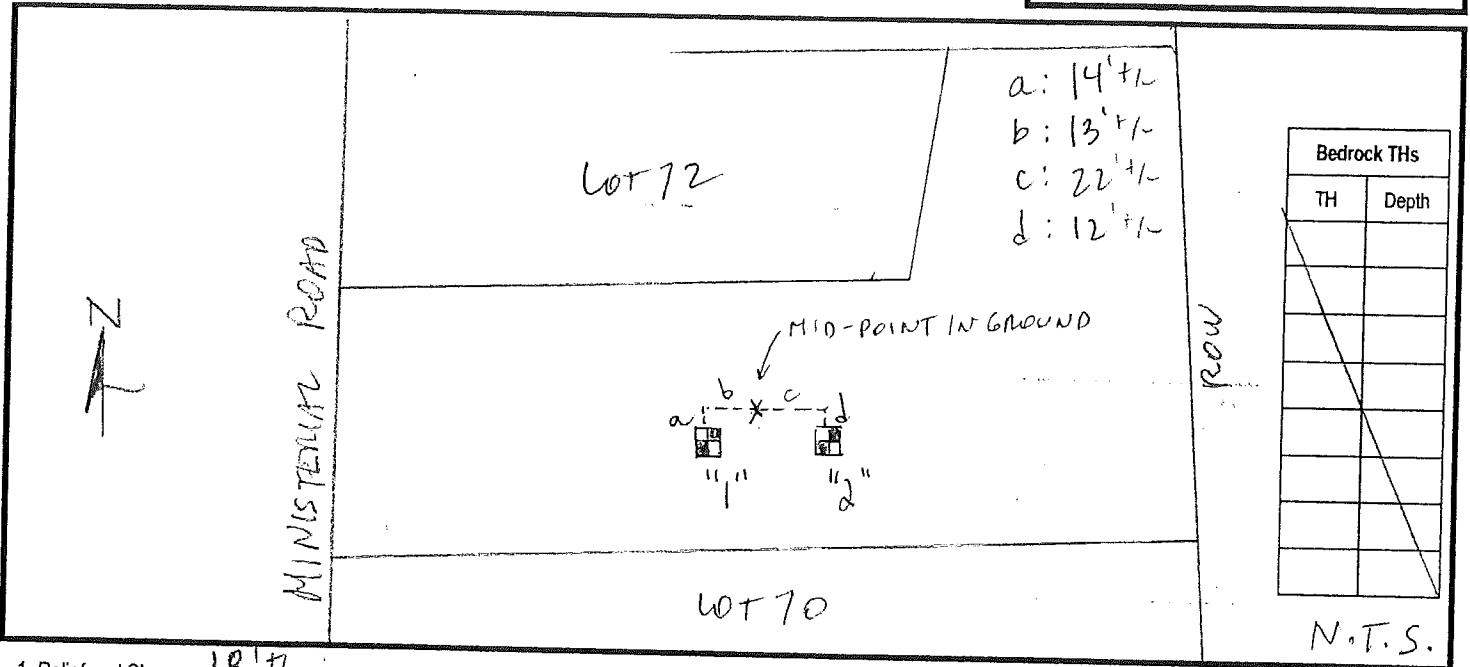
Please use the area below to locate:

1. Test holes and bedrock test holes,
2. Approximate direction of due north,
3. Offsets from all test holes to fixed points such as street, utility pole, or other permanent, marked object.*

*OFFSETS MUST BE SHOWN

Key:

- Approximate location of test holes
- Approximate location of bedrock test holes
- Estimated gradient and direction of slope
- Approximate direction of due north



1. Relief and Slope: 18' +/-
2. Presence of any watercourse, wellands or surface water bodies, within 200 feet of test holes? If yes, locate on above sketch. NO YES
3. Restrictive Layer or Bedrock within 4' below original ground within 25 feet of test hole? Provide all test hole locations & depths above. NO YES
4. Presence of existing or proposed private drinking water wells within 200 feet of test holes? If yes, locate on above sketch. NO YES
5. Public drinking water wells within 500 feet of test holes? If yes, locate on above sketch. NO YES
6. Is site within the watershed of a public drinking water reservoir or other critical area defined in Rule 38? NO YES
7. Has soil been excavated from or fill deposited on site? If yes, locate on above sketch. NO YES
8. Site's potential for flooding or ponding: NONE SLIGHT MODERATE SEVERE
9. Landscape position: BACK SLOPE
10. Vegetation: UPLAND DECIDUOUS FOREST, OAKS, MOUNTAIN LAUREL, WHITE PINE
LOW BUSH BLUEBERRIES.
11. Indicate approximate location of property lines and roadways.
12. Additional comments, site constraints or additional information regarding site: NONE

Certification

The undersigned hereby certifies that all information on this application and accompanying forms, submittals and sketches are true and accurate and that I have been authorized by the owner(s) to conduct these necessary field investigations and submit this request.

Part A prepared by: [Signature] License # 04052 Part B prepared by: [Signature] License # 04052

DO NOT WRITE IN THIS SPACE

Witnessed Soil Evaluation Decision: Concur Inconclusive Disclaim

Unwitnessed Soil Evaluations Decision: Accept Inconclusive Disclaim

Wet Season Determination required Additional Field Review Required

Explanation: _____

Signature Authorized Agent _____ Date _____