OWT 100: Conventional Onsite Wastewater Treatment Basics for Installers

DEM OWTS Installer License Exam Preparation







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www.dem.ri.gov/septic

OWTS Permitting Program Overview

DEM Provides Regulatory Oversight in Three Areas

- Site Suitability: A preliminary stage which assesses the suitability of a parcel of land for on-site sewage treatment
- Treatment System Design Review: To review and approve a design's compliance with the OWTS Rules
- System Installation: Field inspections are conducted by DEM staff during the key stages of system siting and installation

Septic / OWTS Program	
Angelone, Thomas Senior Environmental Scientist, Permitting & Subdivision Suitability Determinations	222-3961 ext. 7607
DeRiso, Andrew Senior Environmental Scientist, Field Inspections & System Repair Permitting	222-3961 ext. 7704
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Mayberry, Katelyn Senior Environmental Scientist, Permitting	222-3961 ext. 7720
Senior Environmental Scientist, Field Inspections & System Repair Permitting	222-3961 ext. 7714
Pittman, Alan Senior Environmental Scientist, Field Inspections & System Repair Permitting	222-3961 ext. 7716

DEM OWTS Program Contacts

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Email: <u>DEM.OWTS@dem.ri.gov</u>

Phone: (401) 222 - 3961

Sorensen, Karen Applications Coordinator, OWTS Administrative Support	222-3961 ext. 7050
➤ Tedesco, Jacqueline Sanitary Engineer, Permitting	222-3961 ext. 7606
Washington, Linda Chief Implementation Aide, Adminstrative Support Services Manager	222-3961 ext. 7718

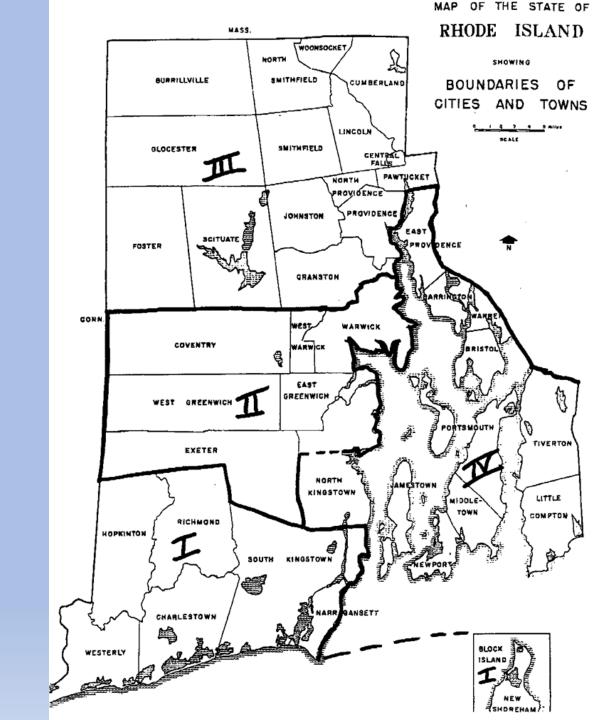
Field Inspection Districts

District I - Peter O'Rourke - ext. 7714

District II – David Duranleau – ext. 7711

District III – Alan Pittman – ext. 7716

District IV – Andy DeRiso – ext. 7704



The OWTS Rules
 Establish Standards for
 Locating, Designing,
 Construction and
 Maintenance of Septic
 Systems in RI

 Be familiar with these for the exam!

 Available on web: www.dem.ri.gov/septic

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS DEPARTMENT OF ENVIRONMENTAL MANAGEMENT Office of Water Resources

Rules Establishing Minimum Standards Relating to

Location, Design, Construction and Maintenance of Onsite Wastewater

Treatment Systems



November 25, 2018

OWTS Construction Permit Application Types

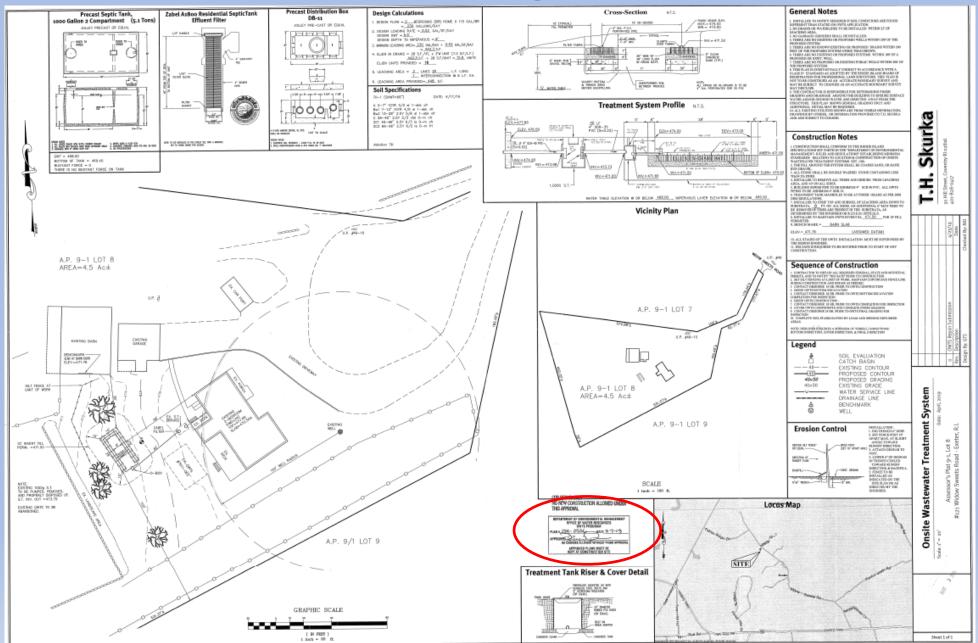
- New Building Construction (New Construction/ Adding 2 or More Bedrooms to Existing Home/ >25% Increase in Flow for Commercial)
- Alteration (Adding 1 Bedroom to Existing Home/≤25% Increase in Flow for Commercial)
- Repair (No Change of Use/Design Flow)
- Suitability Determination (Evaluation of Existing OWTS)
- Subdivision Suitability (Needed for Subdivision Approval by Cities and Towns)

OWTS Construction Design and Installation Permitting Process

DEM Approved OWTS Construction Permit Application

ONSITE WASTEWATER TREAT	TOF ENVIRONMENTAL MANAGEMENT IMENT SYSTEM CONSTRUCTION PERMIT dem.ri.gov/septic				
APPLICATION No. 1911-0536 DATE RECEIVED 5 3	RIDEM USE ONLY AMOUNT RECEIVED \$ 160 CHECK # 44	79 NOTE	014		
TYPE OF APPLICATION (CHECK ALL THAT APPLY)	CERTIFICATION				
☐ NEW BUILDING CONSTRUCTION ☐ ALTERATION ☐ REPAIR ☐ TRANSFER ☐ JOINT OWTS / WETLANDS PD	I, GLEN SKURKA. (print), the undersigned licen application and accompanying forms, submittals, plans and sketches in accordance with the RULEs information provided on this application and accompanying forms, submittals, plans and sketches is to Designer's Signature	of the RIDEM pertaining to rue and accurate.	fy that I prepared this o OWTS and that all the		
SITE INFORMATION	Designer's Email GRNCD-AMBRA. COM Phone	# 486-74	63		
121 WIDOW SWEETS RD. EXETER 49 NO. STREET CITYTOWN POLE#	Business/Company Name T-H - SKURKA	100 11	0.5		
PLAT NUMBER 9- LOT NUMBER 8 SUBDIVISION LOT NUMBER LOT SIZE 4.5 SFIACRES. SUBDIVISION NAME -	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 installar 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 claims reliability whatsoever to the system. In the case of a transfer application, a cknowledge that the permit application and plans previously approved and accompanying this				
SUBDIVISION SITE SUITABILITY CERTIFICATION #	application are the operative documents subject to certification.	STATE OF THE PARTY	and accompanying this		
OWNER INFORMATION GRANN JOHN W. LAST NAME FIRST NAME M.I. 121 WIDOW SWEETS RD. EXETER 02822	Owner's Phone Number 401 55 (69897 401 55) Owner's Email Lamnn & Cox. net Owner(s) Signature Gauss A Rans	3-5181			
NO. STREET CITY/TOWN ZIP CODE	PERMIT APPROVAL SECTION: DO NOT WRITE E		Marie Committee		
PREVIOUS SITE TESTING ☑ YES ☐ NO APPLICATION # 7611 - 063 DEPTH TO APPROVED WATER TABLE 5.51 HOW DETERMINED ≤EV TEST HOLE # ☐ DATE EXCAVATED ☐ 17, 19 WETLANDS within 200' OF OWTS ☐ YES ☐ NO	Based upon the representations of the owner and the owner's agents, including the represent that hand accuracy of all information submitted, this application for an OWTS is I responsibility or liability for the future safe operation or maintenance of the aforesaid system to this site, nor does it assume any responsibility for the accuracy and truth of the owner. This approval is subject to future suspension or revocation in the event that subsequent any application, form, submittal, plan or sitesful to be incorrect, or not in compliance with such that the approved design is not in accordance with the RULES, or in the event that wastewater to waters of the State or fails to operate satisfactorily in any other manner.	nereby approved. The intermonal the filters or such that owner's agent as armination reveals at the RULES or any con-	RIDEM assumes no atability of this system it's representations, ny data indicated on ditions at the site are		
WETLAND DETERMINATION ☐ YES ☑ NO RIDEM FILE # DATE	IMPORTANT: Additional terms of approval as Bottom of leaching area excavation must be inspected by the RIDEM prior to place Bystem installation must be inspected by RIDEM prior to covering any component	ement of any gravel or of the system with bac			
BUILDING USE: A Residential Commercial Other WATER SUPPLY: public water public well private well way 3 2019 # OF DESIGN UNITS Z-BR UNIT DESIGN FLOW 115 gallons per BR (unit) TOTAL DAILY FLOW 230 gallons TANK SIZE 1000 gallons DESIGN LOADING RATE 0.5Z gpd/sf	C. Applicant shall comply with all requirements, conditions and stipulations of varianc D. Joint Permit: Designer of record must contact RIDEM prior to start of any <u>site</u> const. A RE Technology: additional installation, operation or maintenance requirements me F. Copy of this form and Operation/Maintenance contract must be filled in land eviden G. Proposed construction falls within "Coastal Zone". Contact Rhode Island Coastal F. Composer erosion and sedimentation controls must be installed prior to start of constructions. Transfer: See original permit for all applicable conditions. The Proper arcsion and sedimentation controls must be installed prior to start of constructions. Dither Vent req. L. when were exceeds 18.	truction. by apply (see A/E Tech ce records prior to con Resources Manageme	nformance.		
MINIMUM REQUIRED LEACHFIELD AREA 442.3 square feet		5.4.11	10.00		
TOTAL AREA OF LEACHFIELD PROVIDED 446 square feet	Signature of RIDISM Official Certification of RIDISM Official	5-7-19	Date of Expiration		

DEM Approved Design Plan and Details



Licensed Designer Notifies DEM of Start of Construction



Rhode Island Department of Environmental Management

Onsite Wastewater Treatment System Program

Phone: 401-222-6820 Fax: 401-222-6177

NSPECTION REPORT

REET: 121 Widow Sweets Road	INSPECTOR: Duranieau
TY/TOWN:	INSPECTION DATE: 07/09/2019
AT/LOT: POLE NO:	11 100
VTS INSTALLER: Oleon 1.0642 Designer: D	ARRIVAL TIME: 1 00 WEATHER CONDITIONS:
ONE NO: 401-855-3245 INSPECTION NUMBER:	Grana
PE OF INSPECTION: Bottom Inspection	Sunny
Division Higheston	
FINDINGS/COMMENTS	
BoHom excounted to	And the second
	encu
material is gs	
O T	
OK TO PRICETE	0
RESULTS OF INSPECTION/ACTION R	REQUIRED
RESULTS OF INSPECTION/ACTION R	REQUIRED SITE TESTING
Contract and the Contract of t	
OCONSTRUCTION - DESIGNER MUST	□ SITE TESTING
CONSTRUCTION - DESIGNER MUST INSPECT/APPROVE PRIOR TO DEM INSPECTION	SITE TESTING Soli Evaluation - Concur
CONSTRUCTION - DESIGNER MUST INSPECT/APPROVE PRIOR TO DEM INSPECTION Bottom inspected	Soil Evaluation - Concur Soil Evaluation - Do not concur
CONSTRUCTION - DESIGNER MUST INSPECT/APPROVE PRIOR TO DEM INSPECTION Bottom inspected Cover inspected	Soil Evaluation - Concur Soil Evaluation - Do not concur Soil Evaluation - Inconclusive
CONSTRUCTION - DESIGNER MUST INSPECT/APPROVE PRIOR TO DEM INSPECTION Bottom inspected Cover inspected Correct items listed	□ SITE TESTING □ Soil Evaluation - Concur □ Soil Evaluation - Do not concur □ Soil Evaluation - Inconclusive □ Alteration Test Hole - Verified □ Alteration Test Hole - Unacceptable □ Ledge Test
CONSTRUCTION - DESIGNER MUST INSPECT/APPROVE PRIOR TO DEM INSPECTION Bottom inspected Cover inspected Correct items listed (RFA) Address items listed and call for re-inspection.	□ SITE TESTING □ Soil Evaluation - Concur □ Soil Evaluation - Do not concur □ Soil Evaluation - Inconclusive □ Alteration Test Hole - Verified □ Alteration Test Hole - Unacceptable □ Ledge Test □ Fill Tests
CONSTRUCTION - DESIGNER MUST INSPECT/APPROVE PRIOR TO DEM INSPECTION Bottom inspected Cover inspected Correct items listed (RFA) Address items listed and call for re-inspection. (ASB) Designer must submit As-Builts (RPREQ) Redesign required. Submit new application.	□ SITE TESTING □ Soil Evaluation - Concur □ Soil Evaluation - Do not concur □ Soil Evaluation - Inconclusive □ Alteration Test Hole - Verified □ Alteration Test Hole - Unacceptable □ Ledge Test
CONSTRUCTION - DESIGNER MUST INSPECT/APPROVE PRIOR TO DEM INSPECTION Bottom inspected Cover inspected Correct items listed (RFA) Address items listed and call for re-inspection. (ASB) Designer must submit As-Builts (RPREO) Redesign required, Submit new application. (RFAD) Stop Construction, Contact OWTS office, DO NOT CONTINUE.	□ SITE TESTING □ Soil Evaluation - Concur □ Soil Evaluation - Do not concur □ Soil Evaluation - Inconclusive □ Alteration Test Hole - Verified □ Alteration Test Hole - Unacceptable □ Ledge Test □ Fill Tests
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Designer Calls to Schedule DEM "Bottom Inspection"

Designer Calls to Schedule DEM "Cover Inspection"



Rhode Island Department of Environmental Management Onsite Wastewater Treatment System Program

Phone: 401-222-6820 Fax: 401-222-6177

INSPECTION REPORT

APPLICATION NUMBER: 1911-0536 STREET: INSPECTOR: CITY/TOWN: INSPECTION DATE: PLAT/LOT: POLE NO: 45 ARRIVAL TIME: 1:00 OWTS INSTALLER: 01son 1.0642 Designer: D115 WEATHER CONDITIONS PHONE NO: INSPECTION NUMBER:

TYPE OF INSPECTION:

FINDINGS/COMMENTS

- Outlet tee of filter installed in tank.
- D-box t field installed per plon Maintain max core 30" over system, many need to cut down bank noor d-box
- Vent installed

OK TO COURR

RESULTS OF INSPECTION/ACTION REQUIRED

□ CONSTRUCTION - DESIGNER MUST INSPECT/APPROVE PRIOR TO DEM INSPECTION

- □ Bottom inspected
- Cover inspected
- ☐ Correct items listed
- (RFA) Address items listed and call for re-inspection.
- (ASB) Designer must submit As-Builts
- (RPREQ) Redesign required. Submit new application.
- (RFAD) Stop Construction. Contact OWTS office. DO NOT CONTINUE.
- (COC) Designer submit COC
- (O&M) O&M agreement and permit must be recorded in Earl Evidence
- (Fee) A \$100.00 fee is required before re-inspection.
- Inspection waived

Signature of Inspector

☐ SITE TESTING

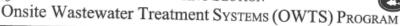
- ☐ Soil Evaluation Concur
- ☐ Soil Evaluation Do not concur
- ☐ Soil Evaluation Inconclusive
- ☐ Alteration Test Hole Verified
- ☐ Alteration Test Hole Unacceptable
- ☐ Ledge Test
- ☐ Fill Tests
- ☐ Repair Test Hole

Designer's Certificate of Construction

- Designer is responsible for overseeing the construction of the OWTS and serves as the system inspector
- Designer certifies that the system was installed in accordance with the approved plan
- This is the last step in the construction process



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES PERMITTING SECTION



DESIGNER'S CERTIFICATE OF CONSTRUCTION FOR OWTS

I, Glen Skurko , as the designer of record f (Street) 121 Widow Sweets Rd.	in the City or Town of fy that the installation of the OWTS was ny information, knowledge and belief, was es, and that, in my professional opinion, the ations, applicable statutes, regulations, and hode Island Department of Environmental tallation in accordance with RIDEM/OWTS
S.T. 10.1' 50.9' D.B. 45.7' 63.4' 1 57.3' 75.3' 2 60.9' 91.8' S.T. 2.4' A 2.5' D.B. 1.0.B. 1.	Graphic Scale 0 30 60 1"= 30"
Installer's Name Mott Olson	License NoL-0642
Designer's Name Glen Skurka	License NoD-1159
Designer's Signature Glen Skarka	Date Signed 7/12/19
Designer Request of Change (DROC) Approval Date(s)	



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES PERMITTING SECTION 235 PROMENADE STREET PROVIDENCE, RI 02908

July 15, 2019

TO: John W Grann 1221 Widow Sweets Road Exeter, RI 02822

SITE INFORMATION:

Application No.: 1911-0536 Street: 121 Widow Sweets Road

Town: Exeter Plat: 9-1 Lot: 8 Subdivision: Subdivision Lot No:

CERTIFICATE OF CONFORMANCE

This Certificate of Conformance means that the Onsite Wastewater Treatment System (OWTS), which has been installed under the above application number, appears to substantially conform with the design requirements and other requirements as indicated on the application, and associated plans and specifications. **PERMISSION IS THEREFORE GRANTED FOR UTILIZATION OF THE SEWAGE DISPOSAL SYSTEM.** A copy of this certificate has been forwarded to the building official of the municipality having jurisdiction over the subject site; he/she may issue a Certificate of Occupancy for the building provided all other local requirements have been met. The building official must receive a copy of the Certificate of Conformance prior to his or her issuing any required certificate of occupancy for the building or facility to be served by the OWTS.

This Certificate is based upon the representations of the Owner and his/her agents, who are responsible for the proper installation of this system. This Department has approved the OWTS installation in reliance upon those representations and is not responsible for any of the construction, design details, specifications, distances or elevations indicated on the application, plan or specifications. This approval is subject to future suspension and revocation in the event that: subsequent examination reveals that any of the data indicated on the application, plan or specifications is incorrect or not in compliance with applicable regulations; or the OWTS system discharges sewage to the surface of the ground or to any watercourse, fails to otherwise operate satisfactorily or is altered in a manner which deviates from the terms of the approved application.

Authorized Agent: Mohamed J. Freij, PE, PLS, Supervising Sanitary Engineer

ONSITE WASTEWATER TREATMENT SYSTEM PROGRAM

SEE REVERSE SIDE FOR IMPORTANT INFORMATION ON CARE AND MAINTENANCE

Certificate of Conformance

- Issued by DEM when all paper work is in, including (Certificate of Construction, Recorded Deed Restrictions, Recorded A/E Technology O&M Contracts, etc.)
- Required for Certificate of Occupancy
- Final Step in the OWTS Permitting Process

OWTS Installer Requirements

- OWTS Installers Must Be Licensed in RI
- Licenses Are In Effect for 3 Years
- Licenses May Be Denied, Suspended, or Revoked for Non-Compliance with OWTS Rules
- Installers Are Professionally Liable For Poor Workmanship.
- Be Honest, Treat People Right, Success Will Follow

Licensed Installers Must:

- (1) Perform all work in compliance with approved plans and specifications only.
- (2) Report any discrepancies on an approved plan, which he or she may note during construction to the Designer.
- (3) Utilize only quality grade construction materials approved by the DEM.
- (4) Use only the best construction techniques to provide for the best possible installations.
- (5) Work only under valid plans approved by the DEM with the approval stamp clearly indicated, and commence work only after completely reviewing the entire approval including the application, the layout plans, all typical specification sheets, and other attachments.
- (6) Adhere to each and every term of approval as stipulated by the DEM

Penalties for Non-Compliance

The penalties for noncompliance are as follows: any person who knowingly and willfully violates any rule or regulation adopted pursuant to authority granted to the DEM, upon conviction, shall be punished by a fine of not more than five hundred dollars (\$500), or by imprisonment for not more than thirty (30) days, or both, for each offense or violation, and each day's failure to comply with any rule or regulation shall constitute a separate offense.

Common Non-Compliance Issues During Installation

- -Designer of record fails to call DEM 24 hrs prior to the start of construction (OWTS Rule 6.47.E)
- -System design changes are authorized by the designer and completed without DEM notification/approval (OWTS Rule 6.47.G).
- -Designer missing installation deficiencies during inspections, for example:
 - Dirty Stone
 - **Smeared Bottom**
 - Incorrect Leachfield Location or Elevation
- -DEM not called to request bottom or cover inspection as required by permit conditions.
- -Installer starting work without designer authorization.
- -Installer calling DEM for notice of start of construction

Exam Preparation

Exam Specifics

- Closed Book (No Books, Notes, Documents Allowed)
- 3-Part Exam (50% Fundamentals & Regulations, 30% Plan Interpretation, 20% Surveyor's Level Transit Questions)
- 110 Multiple Choice Questions
- Time Limit= 2 ½ Hours
- Bring driver's license (photo ID needed) and simple calculator with you (can't use cell phone)
- DEM provides pencils and scrap paper
- Passing Score= 70%
- Exam Results Mailed in 6-8 Weeks

Topics You Will Not See on the Installers Exam

- Pumps
- Commercial systems

Examples of Topics You Will See on the Installers Exam

- Design and Function of Septic System Components
- Required Separation Distances to SHWT and Restrictive Layer/Bedrock
- Minimum Setback Distances
- Definitions
- Know the difference between an OWTS and a Cesspool
- OWTS Permitting Process
- Firm Understanding of the OWTS Rules
- Section 6.47 of OWTS Rules OWTS Installation

Sample Exam Question 1

```
A leach field must be at least _____ feet from the water supply line.
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- A) 10
- B) 15
- C) 25
- D) 50

Answer 1:

C -25ft.

OWTS Rule 6.23.B

– Minimum Setback

Distances - General

B. Minimum Setback Distances – General

	Building Sewer, Grease Tank, Distribution Box, Pump Tank, Septic Tank, Septic Tank Effluent Pipe (ft) (Note 12)		Leachfield (ft) (Note 12)		
Well Serving Non-potable Uses (Note 13)	25		50		
Water Supply Line	10 (Note	1)	25		
Property Line	10 (Note 2)		Design Flow (gpd) 0-2000 >2000-5000 Note (3) > 5000 Note (4)	(ft) 10 50 min. 50 (Note 5)	
Foundation		5 (Not applicable to building sewer)		25 (Note 6)	
Subsurface drains, foundation drains, or storm drains (see also Tables 22.2 and 22.3): Upgradient and side gradient of the OWTS:	15 (Note 7) 25		(No	5 te 8)	
Downgradient of the OWTS:	(Note 7)		(Note 9)		
Edge of any land at a level lower than the invert of the distribution line	10		10		
Stormwater Infiltration System	25 (Note 10)		25 (Note 10)		
Swimming Pools: In-ground:	10		2	5	
Above ground:	10		10		
	Design Flow <5000 gpd ≥5000 gpd (Note 4)		Design Flow <5000 gpd	Design Flow ≥5000 gpd (Note 4)	

Sample Exam Question 2

- 2) A restrictive layer within a soil profile can be:
 - A) Rotten Rock
 - B) Decomposed Shale
 - C) Ledge
 - D) All of the Above
 - E) None of the Above

Answer 2: D – All of the Above – All Three Are Considered Restrictive Layers: Ledge, Rotten Rock, Decomposed Shale

OWTS Rule 6.8 – Definitions

9. "Bedrock" means rock, commonly called ledge, that forms the earth's crust. Bedrock includes rotten rock

66. "Rotten rock" means any decomposed but still coherent rock. Rotten rock is greater than fifty percent (50%) coherent rock and lies above equal or more coherent rock.

Answer 2: Soil Cat. 10

OWTS Rule 6.8 – Definitions

65. "Restrictive layer" means a soil horizon that is assigned to a soil category 10 as defined in § 6.16(L) of this Part.

OWTS Rule 6.16.L Soil Category 10

L. Soil Categor

Soil Category	Loading Rate (gals/sq ft/day) Pursuant to Rule 32.2 Starred items (*) are for	Soil Texture	Soil Structure	Soil Consistence				Typical Soil Class
	soils with coarse fragment modifiers			Consistence In-Hand Using Soil Clods	Excavation Difficulty			
1	.70	cos, s,	structureless- single grain	loose		Outwash (Class C), ice contact		
1	.61*	leos, ls, eosl, fs	subangular blocky	friable	N/A	(Class D) and coarse ablation till (Class B) deposits		
2	.61	vfs, lvfs	structureless- single grain	loose	N/A	Outwash (Class C) and ice contact (Class D) deposits		
3	.70	ls, sl, l	granular, subangular blocky	very friable to friable	low	Lodgement Till (Class A), Ablation Till (Class B), Outwash (Class C), or Ice Contact (Class D)		
4	.61	lfs, lvfs,	granular, subangular	very friable to	low	Lodgement Till (Class A), Ablation Till (Class B),		
	.70*	fsl, vfs	blocky	friable		Outwash (Class C), or Ice Contact (Class D)		
5	.52	sil, si, vfsl	subangular blocky	very friable to friable	low	Typically Eolian deposits (Class G)		
6	.61	lcos, cosl, lfs,	structureless massive	very friable to	low	Ablation till (Class B)		
	.70*	ls, sl, l, fsl, vfsl,		friable		` ′		
7	.52 fsl, v		structureless- massive	very fiiable to	low to	Ablation till (Class B)		
,	.61*	vfs	Junior Landson	fiiable	moderate			
8	.46	all	structureless-massive	firm to very	moderate	Lodgement till (Class A)		
	.48*	textures	structureiess-massive	firm	moderate	Lougement (III (Class A)		
9	.40	all	platy, structureless-	firm to very	high	Lodgement till (Class A)		
,	.43*	textures	massive	firm		Lougement un (Class A)		
10	Jot Allowed Impervious)	all textures	platy, structureless- massive	extremely firm	very high to extremely high	Lodgement till (Class A)		

OWTS Rule 6.16.L - Soil Category 10

L. Soil Category

Soil Category	Loading Rate (gals/sq ft/day) Pursuant to Rule 32.2 Starred items (*) are for	Soil Texture	Soil Structure	Soil Consistence		Typical Soil Class
	soils with coarse fragment modifiers			Consistence In-Hand Using Soil Clods	Excavation Difficulty	
10	Not Allowed (Impervious)	all textures	platy, structureless- massive	extremely firm	very high to extremely high	Lodgement till (Class A)

Sample Exam Question 3

- 3) A repair permit is valid for:
 - A) 2 years
 - B) 5 years
 - C) 1 year
 - D) Depends on if water supply is public or a well
 - E) None of the above

Answer 3: C - 1 Year

OWTS Rule 6.46.C – Permit Expiration

- C. Expiration of Permits for OWTS Repairs All permits for repairs to OWTSs issued in accordance with § 6.18(G) of this Part shall expire as follows:
 - Where a permit for OWTS repair is issued following the property owner's receipt of a Notice of Violation issued by the Department, all repair work must be completed within the time periods set forth in the Notice of Violation; and
 - In all other cases, permits for OWTS repair shall expire as specified in the permit itself. In no case shall
 any permit for a repair to an OWTS be valid for more than one (1) year from the date of issuance of the
 permit.

Plan Interpretation

Key System Components

Installation Notes

Invert Elevations

Areas of Cuts and Fill

Size of Leaching Area

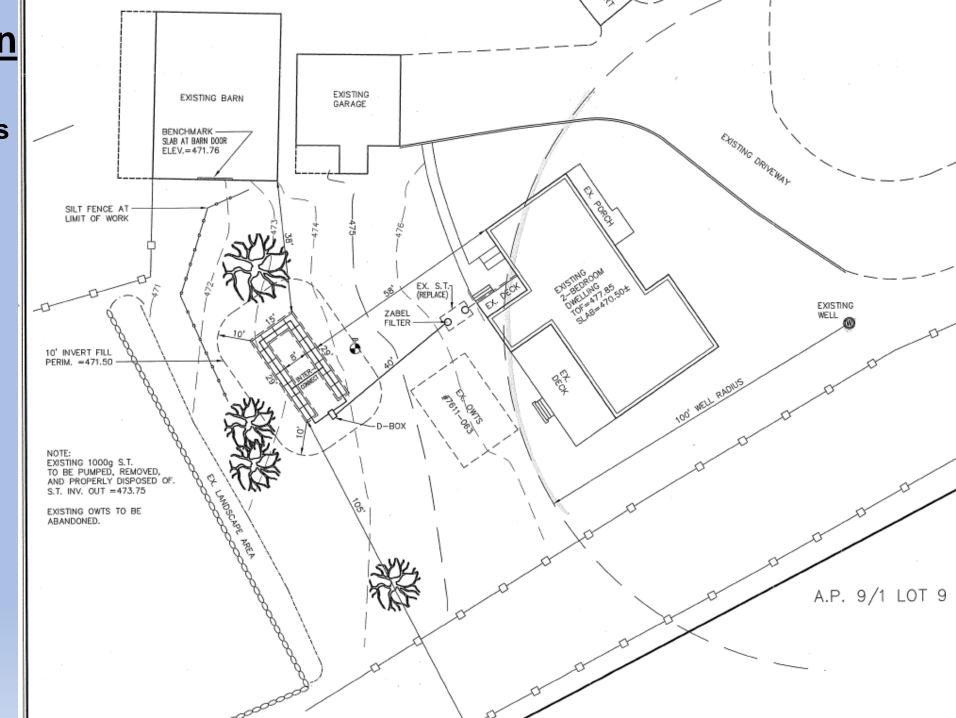
Depth of Stone/Sand

Depth of Cover

Plan Scale

Offset Distances

Fill Perimeter Elevation



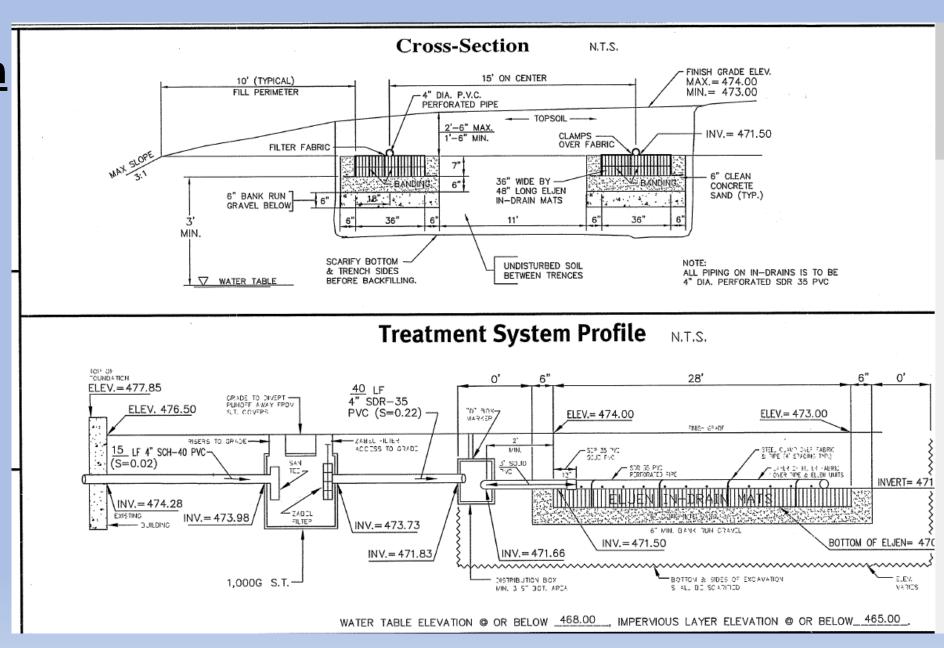
Plan Interpretation

Calculating Pipe Slope

Material Elevations/Types/Depths

Pipe Sizes/Type

Separation to SHWT/Impervious Layer



Questions on Installer Licensing and Exam Logistics

Contact: Linda Washington at RIDEM

linda.washington@dem.ri.gov

401 -222 - 3961 EXT. 7718