

# REPLACEMENT SYSTEM VARIANCE REQUEST

## THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application for the proposed replacement system which does not comply with the Rules. The LPI shall review the Replacement System Variance Request and Application and may approve the Request if all of the following requirements can be met, and the variance(s) requested fall within the limits of LPI's authority.

1. The proposed design meets the definition of a Replacement System from the rules.
2. A system cannot be designed and installed in total compliance with the Rules.
3. The design flow is less than 500 GPD.
4. There will be no change in use of the structure.
5. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.

### GENERAL INFORMATION

*Town copy*

Permit No. 2262 E      Town of Augusta  
 Date Permit Issued 9/5/91  
MONTH/DAY/YEAR  
 Property Owner's Name: Leon Dearborn      Tel. No. 622-2831  
 System's Location: RTE. 7 Tasker Road  
STREET  
Augusta      Maine 04330  
TOWN      ZIP  
 Property Owner's Address: Same  
(if different from above)      STREET  
TOWN      STATE      ZIP

### SPECIFIC INSTRUCTIONS TO THE:

#### LPI:

If any of the variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, they you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)

#### SITE EVALUATOR:

If after completing the Application, you find that a variance for the proposed replacement system is needed, then complete the Replacement Variance Request with your signature on reverse side of form.

#### PROPERTY OWNER:

It has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. Both the Site Evaluator and the LPI have considered the site/soil restrictions and have concluded that a replacement system in total compliance with the Rules is not possible.

The OWNER shall sign this statement. Therefore, having read both this Replacement Variance Request and the attached Application, I understand that the proposed system is not in total compliance with the Rules and hereby release all those concerned with this Variance, provided they have performed their duties in a reasonable and proper manner.

Leon E. Dearborn  
PROPERTY OWNER'S SIGNATURE

8/26/91  
DATE

VARIANCE CATEGORY	VARIANCE REQUESTED	LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
SOILS Soil Profile Soil Condition from HHE-200	Ground Water Table	to 6"		inches	
	Restrictive Layer	to 6"		inches	
	Bedrock	to 10"		inches	
SETBACK DISTANCES (IN FEET)	FROM:	TREATMENT TANK	DISPOSAL AREA	TREATMENT TANK	DISPOSAL AREA
Potable Water Supplies	1. Well: > 2000 gal/day	100 <sup>a</sup>	300 <sup>a</sup>		
	2. Well: < 2000 gal/day				
	a. Neighbor's	50 <sup>b</sup>	60 <sup>b</sup>		
	b. Property Owner's	25'	50'	*50'	70'
	3. Water Supply Line	See note 'a'			
Waterbodies	1. Perennial	50'	60'		90'
	2. Intermittent	15'	20'		
	3. Manmade drainage ditch	10'	15'		
Downhill Slope	Greater than 3:1 (33%)	5 <sup>c</sup>	10 <sup>c</sup>		
Buildings	1. With Basement	5'	10'		
	2. Without Basement	5'	10'		12'
Property Line		4'	5'		

**OTHER**

\* IF septic Tank is replaced

1. Fill extension Grade—to 3:1

2. USING Fill for design purposes (over 48" deep)

3. \_\_\_\_\_

**Footnotes:**

- a. This setback distance cannot be reduced by variance. See Table 6-2.
- b. Written Permission from the owner of a well is required when a replacement system will be located less than 100 feet but closer to that well than the system it is replacing.
- c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope.

David P. Roague  
SITE EVALUATOR'S SIGNATURE

8/26/91  
DATE

**LPI STATEMENT**

I, Nay R. Luller, LPI for the Town of Avon have conducted an on-site inspection for the proposed replacement system and have determined to the best of my knowledge, that it cannot be installed in total compliance with the Rules, applicable Municipal Wastewater Disposal Ordinances, or the Local Shoreland Zoning Ordinance. As a result of my review of the Replacement System Variance Request, the Application, and my on-site investigation, I (check and complete either a or b):

- a. ( approve,  disapprove) the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval, he shall list his reasons for denial in Comments Section below and return to the applicant.
- b. find that one or more of the requested Variances exceeds my approval authority as LPI. I ( recommend  do not recommend) the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, he shall state his reasons in Comments Section below as to why the proposed replacement system is not being recommended.

Comments: \_\_\_\_\_

Nay R. Luller  
LPI'S SIGNATURE

7/4/91  
DATE

**FOR USE BY THE DEPARTMENT ONLY**

The Department has reviewed the variance(s) and ( does  does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

Shawn L. Skubicki  
SIGNATURE OF THE DEPARTMENT

9/4/91  
DATE

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering  
(207)289-3826

**PROPERTY ADDRESS**

Town Or Plantation: Augusta

Street Subdivision Lot #: Tasker Road

**PROPERTY OWNERS NAME**

Last: Dearborn First: Leon

Applicant Name: Same

Mailing Address of Owner/Applicant (If Different): RTE. 17 Tasker Rd. Augusta, Maine 04330

Date Permitted: \_\_\_\_\_

Date Issued: 9.5.91

Local Plumbing Inspector Signature: Ray R. Smith

L.P.I. #: 850

Fee: \$ 160.00 (2742) 00 (DWP) 00 (COPY) 00 (Double Fee) 00 (Charged)

**Owner/Applicant Statement**

I certify that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspector to deny a Permit.

Signature of Owner/Applicant: Leon E. Dearborn Date: \_\_\_\_\_

**Caution: Inspection Required**

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules.

Local Plumbing Inspector Signature: Ray R. Smith Date Approved: 9/10/91

## PERMIT INFORMATION

**THIS APPLICATION IS FOR:**

- NEW SYSTEM
- REPLACEMENT SYSTEM
- EXPANDED SYSTEM
- EXPERIMENTAL SYSTEM

**THIS APPLICATION REQUIRES:**

- NO RULE VARIANCE
- NEW SYSTEM VARIANCE  
Attach New System Variance Form
- REPLACEMENT SYSTEM VARIANCE  
Attach Replacement System Variance Form
  - Requiring Local Plumbing Inspector Approval
  - Requires State and Local Plumbing Inspector Approval
- MINIMUM LOT SIZE VARIANCE

**INSTALLATION IS:**

COMPLETE SYSTEM

- NON-ENGINEERED SYSTEM
- PRIMITIVE SYSTEM  
(Includes Alternative Toilet)
- ENGINEERED (+ 2000 gpd)

**SEASONAL CONVERSION**

to be completed by the LPI

- SYSTEM COMPLIES WITH RULES
- CONNECTED TO SANITARY SEWER
- SYSTEM INSTALLED - P#
- SYSTEM DESIGN RECORDED AND ATTACHED

**DISPOSAL SYSTEM TO SERVE:**

- SINGLE FAMILY DWELLING
- MODULAR OR MOBILE HOME
- MULTIPLE FAMILY DWELLING
- OTHER \_\_\_\_\_

SPECIFY

**FILL SOILS**

INDIVIDUALLY INSTALLED COMPONENTS:

- TREATMENT TANK (ONLY)
- HOLDING TANK \_\_\_\_\_ GAL
- ALTERNATIVE TOILET (ONLY)

**IF REPLACEMENT SYSTEM:**

YEAR FAILING SYSTEM INSTALLED: 1958

THE FAILING SYSTEM IS:

- BED
- CHAMBER
- TRENCH
- OTHER: \_\_\_\_\_

**DISPOSAL SYSTEM TO SERVE:**

- SINGLE FAMILY DWELLING
- MODULAR OR MOBILE HOME
- MULTIPLE FAMILY DWELLING
- OTHER \_\_\_\_\_

SPECIFY

**TYPE OF WATER SUPPLY**

Drilled well

**SIZE OF PROPERTY**

25,200 ±

**ZONING**

Shoreland

## DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

**TREATMENT TANK**

- SEPTIC:  Regular  Low Profile
- AEROBIC if needed

SIZE: 1000 GALS.

**WATER CONSERVATION**

- NONE
- LOW VOLUME TOILET
- SEPARATED LAUNDRY SYSTEM
- ALTERNATIVE TOILET

SPECIFY: Existing

**PUMPING**

- NOT REQUIRED
- MAY BE REQUIRED  
(DEPENDENT ON TREATMENT TANK LOCATION AND ELEVATION)
- REQUIRED

DOSE: 45 GALS.

CRITERIA USED FOR DESIGN FLOW (BEDROOMS, SEATING, EMPLOYEES, WATER RECORDS, ETC.)

Two Bedroom Home -

Design flow minimum

Plus 20%

220

DESIGN FLOW: \_\_\_\_\_ (GALLONS/DAY)

**SOIL CONDITIONS USED FOR DESIGN PURPOSES**

PROFILE: Variable CONDITION: Fill

DEPTH TO LIMITING FACTOR: 20

**SIZE RATINGS USED FOR DESIGN PURPOSES**

- SMALL
- MEDIUM
- MEDIUM-LARGE
- LARGE
- EXTRA LARGE

**DISPOSAL AREA TYPE/SIZE**

- BED \_\_\_\_\_ Sq. Ft.
- CHAMBER 375 Sq. Ft.  REGULAR  H-20
- TRENCH \_\_\_\_\_ Linear Ft.
- OTHER: \_\_\_\_\_

## SITE EVALUATOR STATEMENT

On 8/26/91 (date) I conducted a site evaluation for this project and certify that the data reported is accurate. The system I propose is in accordance with the Subsurface Wastewater Disposal Rules.

Signature: David P. Roque

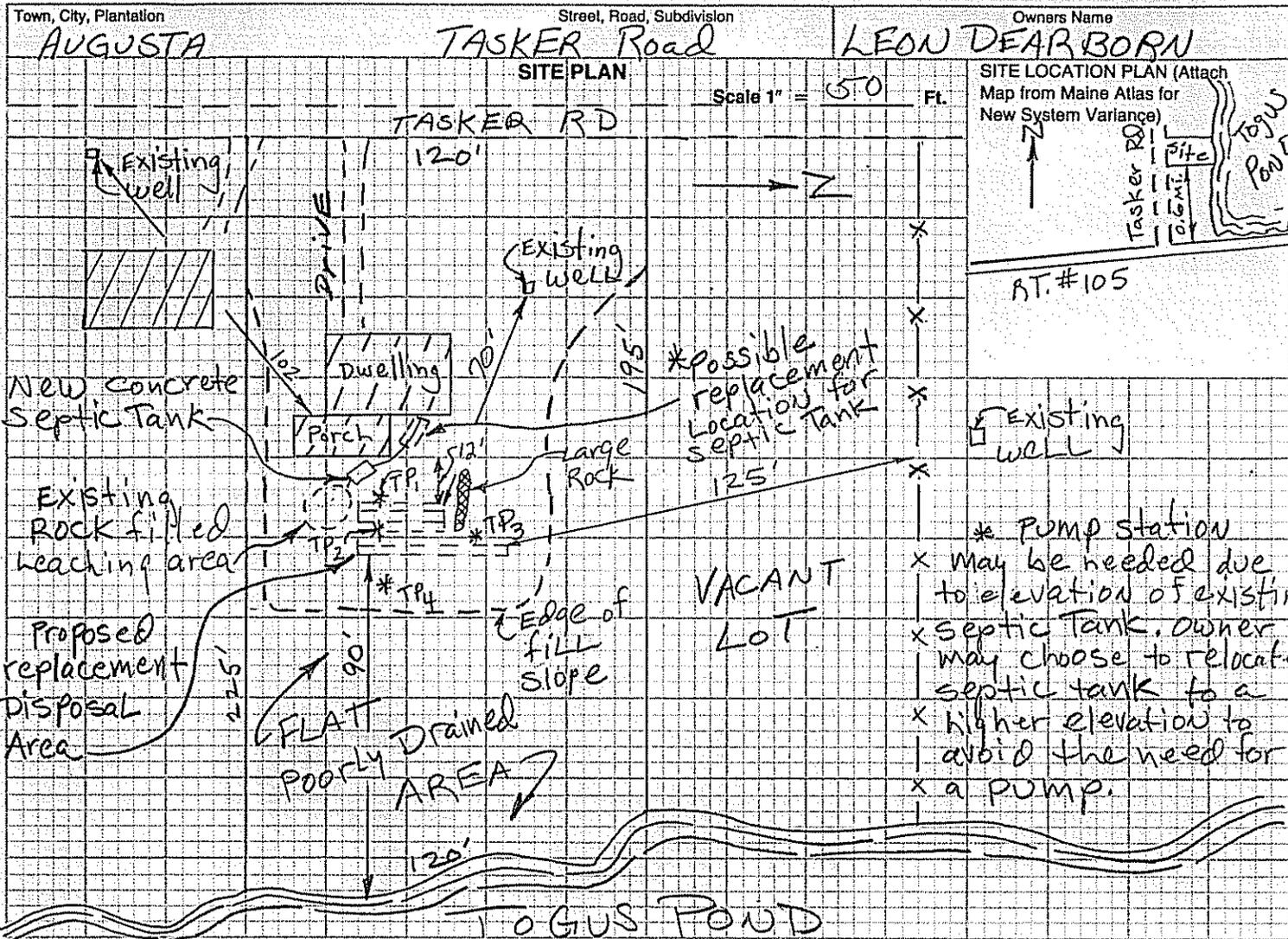
SE#: 154

Date: 8/26/91

(Local Plumbing Inspector's Signature if permit is for Seasonal Conversion.)

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering



## SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole TP  Test Pit  Boring  
SOD " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	Sandy Loam		Dark Grayish	
6	Silt Loam	Friable	Brown	
10	FILL			NONE
15	Sand with pockets of gravel	Loose	Brown	Apparent
20	Sandy Loam	to Friable		
30	Fill gravelly	Friable	olive	Common
40	Sandy Loam		Brown	distinct
50	Fill			(same comment as TP)

Soil Profile: <u>7</u>	Classification: <u>C</u>	Slope: <u>13</u> %	Limiting Factor: <u>36</u>	<input checked="" type="checkbox"/> Ground Water
				<input type="checkbox"/> Restrictive Layer
				<input type="checkbox"/> Bedrock

Observation Hole TP  Test Pit  Boring  
SOD " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	Sandy Loam		Dark	
6	Silt Loam	Friable	Brown	NONE
10	FILL			observed
15	gravelly sand to sandy loam		Brown	
20	Fill			
30	Gravelly sand	Friable		Common
40	with gravelly silt	to Firm		in silt
50	Fill			

Note: mottles may be relic in fill and may be influenced by exist. effluent.

Soil Profile: <u>7</u>	Classification: <u>C</u>	Slope: <u>13</u> %	Limiting Factor: <u>26</u>	<input checked="" type="checkbox"/> Ground Water
				<input type="checkbox"/> Restrictive Layer
				<input type="checkbox"/> Bedrock

Best Fit (Did not reach original)  
 David P. Pogue 154  
 Site Evaluator Signature SE#

Best Fit  
 8/26/91  
 Date

Page 2 of 3  
 HHE-200 Rev. 1/84

**SOIL DESCRIPTION AND CLASSIFICATION** (Location of Observation Holes Shown Above)

Observation Hole TP3  Test Pit  Boring  
SOD \* Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0	gravelly		Dark	
2	Loam			
4	Fill	Friable	Brown	
6	gravelly			NONE
8	Sand		Brown	
10	Fine Sand	Friable		Few
12	Loam to	lo		Faint
14	Silt Loam			
16	Fill	Firm	mottles may be due to redic conditions of fill or effluent	
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
42				
44				
46				
48				
50				

Soil Profile 9 Classification C Condition 0 Slope 13 % Limiting Factor 20  Ground Water  Restrictive Layer  Bedrock

Best Fit

**SOIL DESCRIPTION AND CLASSIFICATION** (Location of Observation Holes Shown Above)

Observation Hole TP4  Test Pit  Boring  
SOD \* Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0	gravelly			COMMON
2	SILT		gray	
4	Loam	Firm	Brown	Dist.
6	Fill			(Some may be mixing)
8	gravelly	Firm	olive	
10	Sand to	to		
12	gravelly	Friable	Brown	
14	Silt Loam			
16	Fill			
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
42				
44				
46				
48				
50				

Soil Profile 9 Classification E Condition 0 Slope 5 % Limiting Factor 0  Ground Water  Restrictive Layer  Bedrock

Best Fit

**SOIL DESCRIPTION AND CLASSIFICATION** (Location of Observation Holes Shown Above)

Observation Hole \_\_\_\_\_  Test Pit  Boring  
 \_\_\_\_\_ \* Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0				
2				
4				
6				
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
42				
44				
46				
48				
50				

Soil Profile \_\_\_\_\_ Classification \_\_\_\_\_ Condition \_\_\_\_\_ Slope \_\_\_\_\_ % Limiting Factor \_\_\_\_\_  Ground Water  Restrictive Layer  Bedrock

**SOIL DESCRIPTION AND CLASSIFICATION** (Location of Observation Holes Shown Above)

Observation Hole \_\_\_\_\_  Test Pit  Boring  
 \_\_\_\_\_ \* Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0				
2				
4				
6				
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
42				
44				
46				
48				
50				

Soil Profile \_\_\_\_\_ Classification \_\_\_\_\_ Condition \_\_\_\_\_ Slope \_\_\_\_\_ % Limiting Factor \_\_\_\_\_  Ground Water  Restrictive Layer  Bedrock

David P. Roque  
 Site Evaluator Signature

154  
 SE#

8/26/91  
 Date

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

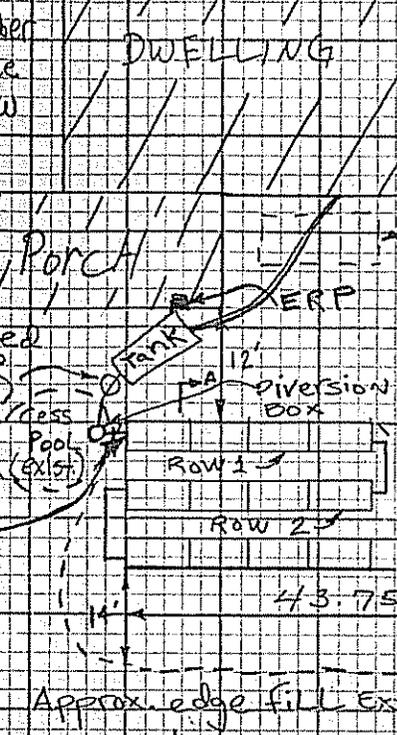
Department of Human Services  
Division of Health Engineering

Town, City, Plantation: **AUGUSTA** Street, Road, Subdivision: **TASKER ROAD** Owners Name: **LEON DEARBORN**

## SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = **20** Ft.

Infiltrator disposal  
area to be 15 chamber  
units placed in three  
rows (4 units in row  
1 and row 2 and  
7 units in row 3)  
connected in  
Serial distribution



Start at  
edge of  
cesspool and  
extend 25'  
toward Large  
rock.

ERP = bottom edge of  
white board just  
beneath porch deck  
marked by ribbon  
attached by thumb tacks.

NOTE: Remove and stockpile topsoil (Sandy Loam to Silt Loam) from disposal area. This can be used at toe of fill extension and for loam on top of disposal area (4" thick) or for other landscaping purposes on the property elsewhere.

### FILL REQUIREMENTS

Depth of Fill (Upslope)  
Depth of Fill (Downslope)

0"  
16"

### CONSTRUCTION ELEVATIONS

Reference Elevation is 0  
Bottom of Disposal Area see below  
Top of Distribution Lines or Chambers

ELEVATION REFERENCE POINT  
LOCATION & DESCRIPTION  
Bottom edge of white  
Board beneath porch.

### DISPOSAL AREA CROSS SECTION

Scale:  
Vertical: 1 Inch = Ft.  
Horizontal: 1 Inch = Ft.

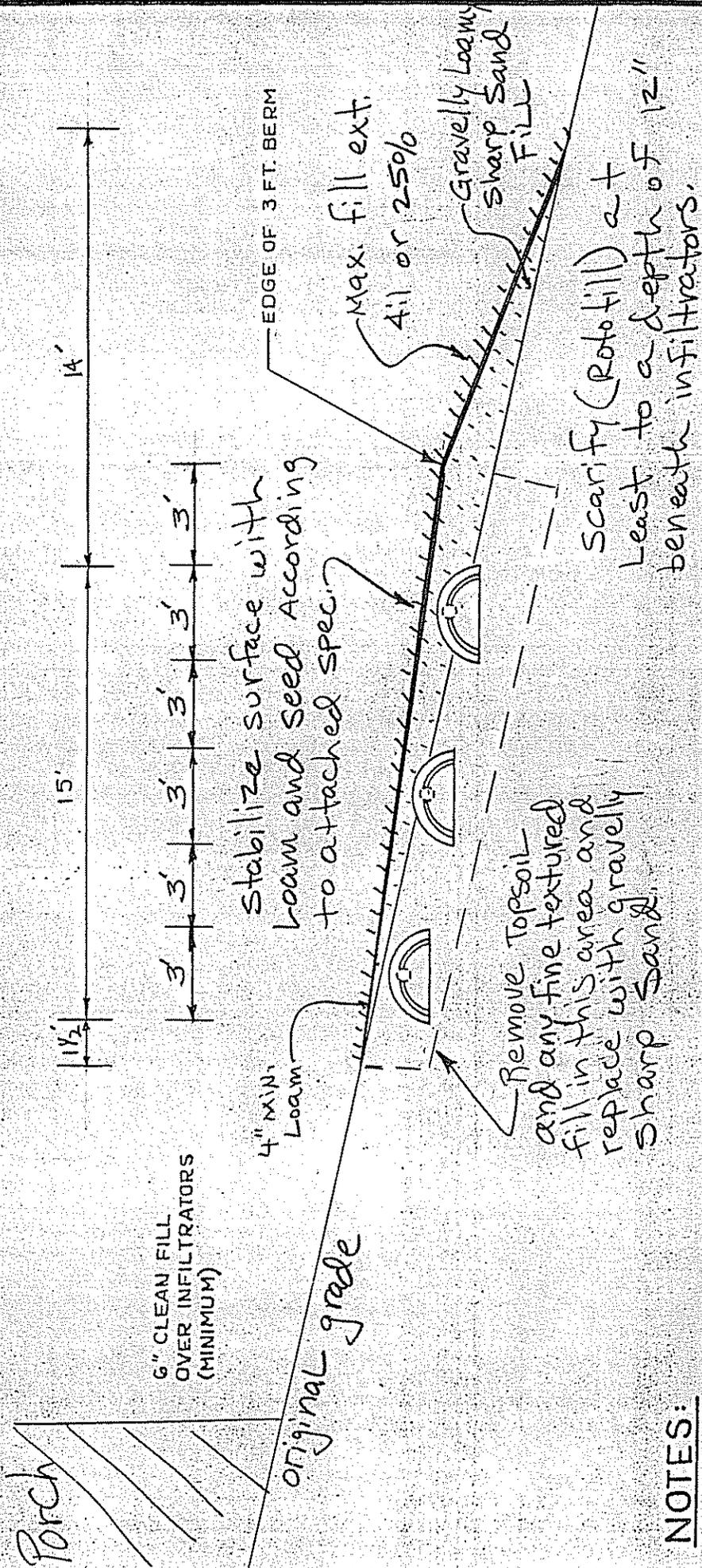
	Top Chambers	Bottom Trench	
Row 1	-45"	-60"	<p>ERP cross-section (Bottom edge of Board)</p>
Row 2	-49"	-64"	
Row 3	-53"	-68"	

David P. Roque  
Site Evaluator Signature

154  
SE#

8/26/91  
Date

# INFILTRATOR CROSS SECTION 13-14%



ORIGINAL GRADE  
 FILL UNDER INFILTRATORS TO BE See above TEXTURE.  
 FILL AROUND INFILTRATORS TO BE 11 TEXTURE.

## NOTES:

1. REMOVE VEGETATION AND SCARIFY ORIGINAL SOIL UNDER INFILTRATORS AND FILL EXTENSION AREAS.
2. BOTTOM OF INFILTRATORS TO BE LEVEL WITH A MAXIMUM GRADE TOLERANCE OF 1" PER 100'.
3. PROVIDE FOR SURFACE DRAINAGE AWAY FROM INFILTRATOR AREA.
4. FINISHED GRADE SHALL BE SEEDED AND MULCHED TO PREVENT EROSION.

SITE EVALUATOR: <b>DAVID P. BOGUE</b>		NUMBER OF INFILTRATORS:	<b>15</b>	PERCENT SLOPE:	<b>13</b>
OWNER: <b>LEON DEARBORN</b>		ELEVATIONS:			
LOCATION: <b>AUGUSTA TASKER ROAD</b>		REFERENCE PT.	<b>0</b>	BOTTOM TRENCH #1	<b>-60"</b>
DATE: <b>8/26/91</b>	SCALE: <b>1 INCH = 5 FEET</b>	BOTTOM TRENCH #2	<b>-64"</b>	BOTTOM TRENCH #3	<b>-68"</b>