



Replacement System Variance Request

VARIANCE CATEGORY	VARIANCE REQUESTED		LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
<b>SOILS</b>						
Soil Profile	Ground Water Table		to 7'		3 inches	
Soil Condition from HHE-200	Restrictive Layer		to 7'		inches	
	Bedrock		to 12'		inches	
<b>SETBACK DISTANCES (in feet)</b>	<b>Disposal Fields</b>		<b>Septic Tanks</b>		<b>Disposal Fields</b>	<b>Septic Tanks</b>
From	Less than 1000 gpd	1000 to 2000 gpd	Less Than 1000 gpd	1000 to 2000 gpd	To	To
Wells with water usage of 2000 or more gpd	300 <sup>a</sup> ft	300 <sup>a</sup> ft	100 <sup>a</sup> ft	100 <sup>a</sup> ft		
Owner's wells	100 down to 50 ft	200 down to 100 ft	100 <sup>b</sup> down to 50 ft	100 down to 50 ft		
Neighbor's wells	100 <sup>b</sup> down to 60 ft	200 <sup>b</sup> down to 120 ft	100 <sup>b</sup> down to 50 ft	100 <sup>b</sup> down to 75 ft		
Water supply line	10 ft <sup>d</sup>	20 ft <sup>d</sup>	10 ft <sup>d</sup>	10 ft <sup>d</sup>		
Water course, major - for replacements only, see Table 400.4 for exempted expansions	100 down to 60 ft	200 down to 120 ft	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to 25 ft	100 down to 50 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	25 down to 12 ft	25 down to 12 ft		
Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams (edge of fill extension)	25 ft <sup>d</sup>	25 ft <sup>d</sup>	25 ft <sup>d</sup>	25 ft <sup>d</sup>		
Slopes greater than 3:1	10 ft	18 ft	N/A	N/A		
No full basement (e.g. slab, frost wall, columns)	15 down to 7 ft	30 down to 15 ft	8 down to 5 ft	14 down to 7 ft		
Full basement (below grade foundation)	20 down to 10 ft	30 down to 15 ft	8 down to 5 ft	14 down to 7 ft		
Property lines	10 down to 5 <sup>c</sup> ft	18 ft down to 9 <sup>c</sup> ft	10 ft down to 4 <sup>c</sup> ft	15 ft down to 7 <sup>c</sup> ft		
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft		

**OTHER**

1. Fill extension Grade - to 3:1

2.

3.

**Footnotes:**

- a. This setback distance cannot be reduced by the LPI, but may be considered for reduction by State variance.
- b. Written Permission from the owner of a well is required when a replacement system will be located less than 100 (or 200 ft. for 1000-2000 gpd) feet and 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 or property line.
- d. Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of disturbance and 100 feet on slopes greater than 20% except for the repair or installation of a replacement system when no practical alternative exists.

*Stephen P. Robinson*  
 \_\_\_\_\_  
 SITE EVALUATOR'S SIGNATURE

25 AUG 97  
 \_\_\_\_\_  
 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.

\_\_\_\_\_  
 SIGNATURE OF THE DEPARTMENT

\_\_\_\_\_  
 DATE



DEPARTMENT OF HEALTH SERVICES  
11 STATE HOUSE STATION  
AUGUSTA, MAINE  
04333-0011

ANGUS S. KING, JR.  
GOVERNOR

KEVIN W. CONCANNON  
COMMISSIONER

September 4, 1997

RECEIVED

SEP 4 1997

Laverne Glazier  
RR 2 Box 25  
Augusta ME 04330

SUBJECT: Approval Replacement System Variance Request, Glazier property, Pleasant Hill Road, Augusta

Dear Ms. Glazier:

The Division has reviewed a replacement system variance request for the subject property. The state variance required is to allow the installation of a subsurface wastewater disposal system in soils with 3 inches to groundwater. The system design prepared by Stephen Robbins, SE, dated 8/25/97, is found to be in compliance with the Maine Subsurface Wastewater Disposal Rules.

We approve the requested variance with the following requirements:

1. A permit for system installation is to be obtained from the Local Plumbing Inspector in advance of the start of system construction.
2. The system is to be installed in accordance with the submitted and approved system design. However, one additional item is to be noted - the fill material is to be mixed into a minimum of 4 inches of original soil as a transitional zone prior to placing the remainder of the fill. Any other alterations to the design which may be required at the time of construction must not be made until the system designer has been notified.
3. Extreme caution must be taken to avoid compaction of the surface layer prior to installing the chambers.

Should you or others have any questions regarding this review and/or approval, please feel free to contact me at 287-5687.

Sincerely,

Linda S. Robinson  
Wastewater & Plumbing Control Program  
Division of Health Engineering

/lsr  
cc: Gary Fuller, LPI  
Stephen Robbins, SE



**PROPERTY LOCATION**

City or Town: AUGUSTA

Street: PLEASANT HILL ROAD

Subdivision Lot #

**PROPERTY OWNERS NAME**

Last: GLAZIER First: LAVERGNE

Mailing Address of Owner: RR#2 BOX 25  
AUGUSTA, ME 04330

Daytime Tel. #: 622-0302

AUGUSTA 3772 TOWN COPY

Date Permit Issued: 9/4/97

Local Plumbing Inspector Signature: Way R. Lumber

FEE: 8.00 (If Double Fee Charged)

L.P.I. #: 8510

**Owner Statement**

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

Signature of Owner/Applicant: Laurie P.D. Glazier Date: 8/29/97

**Caution: Inspection Required**

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

Local Plumbing Inspector Signature: Way R. Lumber Date Approved: 11/10/97

**PERMIT INFORMATION**

**THIS APPLICATION IS FOR:**

- First Time System
- Multi-User System
- Replacement System
- Expanded System
  - One-time exempted
  - Non-exempted
- Experimental System
- Seasonal Conversion

**THIS APPLICATION REQUIRES:**

- No Rule Variance
- First Time System Variance (Municipal)
- First Time System Variance (State)
- Replacement System Variance
  - Local Plumbing Inspector approval
  - State & Local Plumbing Inspector approval
- Minimum Lot Size Variance
- Seasonal Conversion Variance

**DISPOSAL SYSTEM COMPONENT(S)**

- Non-Engineered System
- Primitive System
- Alternative Toilet  
Specify \_\_\_\_\_
- Non-Engineered Treatment Tank
- Holding Tank \_\_\_\_\_ Gallons
- Non-Engineered Disposal Area (only)
- Separated Laundry System
- Engineered System (+2000 gpd)
- Engineered Treatment Tank (only)
- Engineered Disposal Area (only)

**SIZE OF PROPERTY**

1 AC.

**DISPOSAL SYSTEM TO SERVE:**

- Single Family Dwelling Unit
- Multiple Family Dwelling Unit  
Number of Units \_\_\_\_\_
- Other \_\_\_\_\_  
SPECIFY \_\_\_\_\_

**TYPE OF WATER SUPPLY**

PUBLIC

**SHORELAND ZONING**

Yes  No

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

**TREATMENT TANK**

- Concrete
  - Regular
  - Low Profile
- Plastic

SIZE 4000 Gallons

**DISPOSAL AREA TYPE/SIZE**

- Stone Bed \_\_\_\_\_ Sq. Ft.
- Proprietary Device 900 Sq. Ft.
  - Clustered
  - Linear
  - Regular
  - H-20
- Trench \_\_\_\_\_ Lin. Ft.
- Other \_\_\_\_\_

**GARBAGE DISPOSAL UNIT**

- No
- Yes
  - Multi-compartment tank
  - Tank in series
  - Increase in tank capacity
  - Filter on tank outlet

**CRITERIA USED FOR DESIGN FLOW (Show Calculations)**

2 BDRMS

DESIGN FLOW: 180  
(Gallons/Day)

**PROFILE & DESIGN CLASS**

PROFILE	DESIGN
<u>9</u>	<u>E</u>

DEPTH TO MOST LIMITING FACTOR 3

**DISPOSAL AREA SIZING**

- Small 2.0
- Medium 2.60
- Medium-Large 3.30
- Large 4.10
- Extra-Large 5.00

**PUMPING**

- Not required
- May be required
- Required

DOSE 50 Gallons

**SITE EVALUATOR'S STATEMENT**

On 8/20/95 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules.

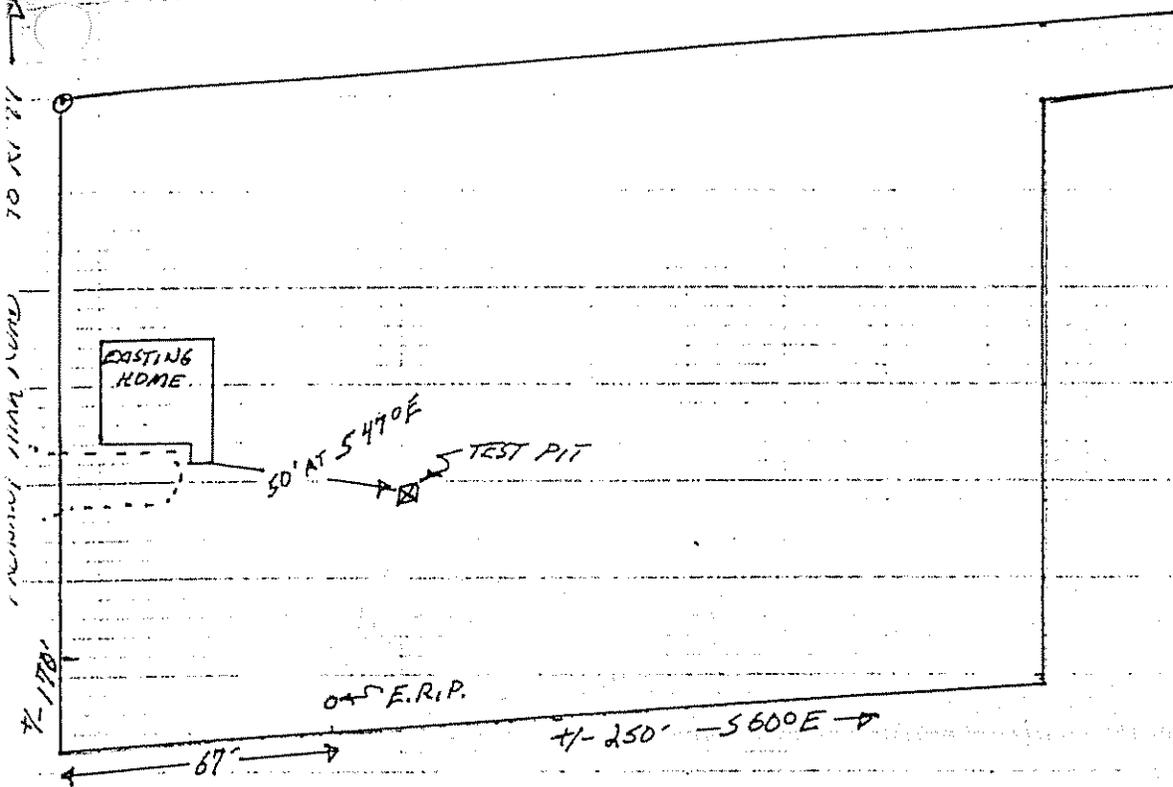
Signature: Stephen P. Robins  
Site Evaluator Signature  
Print Name: STEPHEN P. ROBINS

301 SE #  
377-6707 Telephone

25 AUG 97 Date

SITE PLAN

Scale: 1" = 50 Ft.  
 or as shown



SOIL DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole \_\_\_\_\_  Test Pit  Boring

\* Depth of Organic Horizon Above Mineral Soil \_\_\_\_\_

Texture	Consistency	Color	Mottling
0 SILT LOAM	SOMewhat FIRM	DARK BROWN	
6 SILTY CLAY	FIRM	BLUE GRAY	COMMON
10			
15			
20			
30			
40			
50			

Soil Profile: 9  
 Class: E  
 Slope: 2 %  
 Limiting Factor: 3  
 Ground Water  
 Restrictive Layer  
 Bedrock

Observation Hole \_\_\_\_\_  Test Pit  Boring

\* Depth of Organic Horizon Above Mineral Soil \_\_\_\_\_

Texture	Consistency	Color	Mottling
0			
6			
10			
15			
20			
30			
40			
50			

Soil Profile: \_\_\_\_\_  
 Class: \_\_\_\_\_  
 Slope: \_\_\_\_\_ %  
 Limiting Factor: \_\_\_\_\_  
 Ground Water  
 Restrictive Layer  
 Bedrock

*Steph P. Robbins*  
 Site Evaluator Signature

301  
 SE #

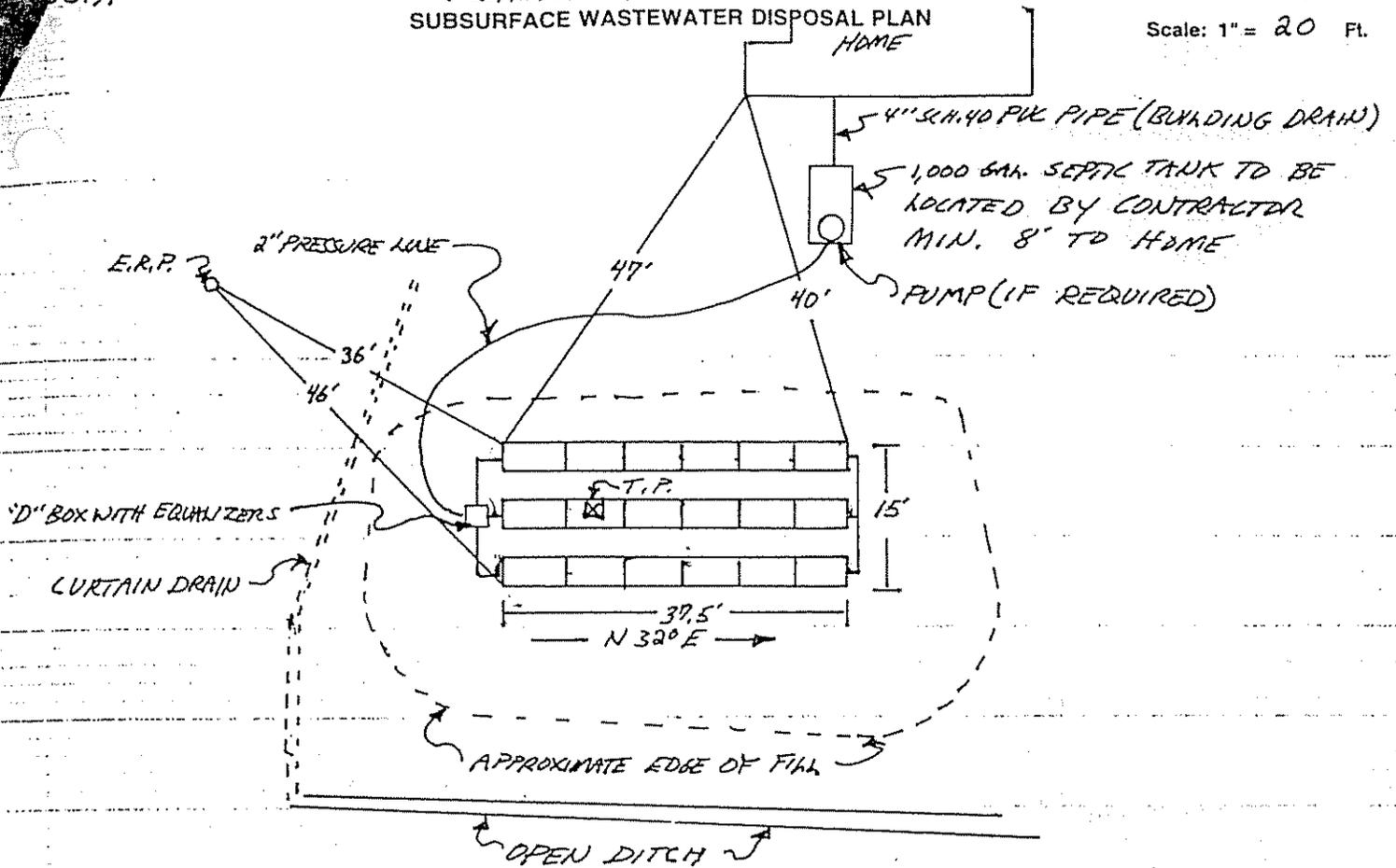
25 AUG 97  
 Date

WSTA

PLEASANT HILL ROAD  
SUBSURFACE WASTEWATER DISPOSAL PLAN  
HOME

NAVENNE GATZIER

Scale: 1" = 20 Ft.



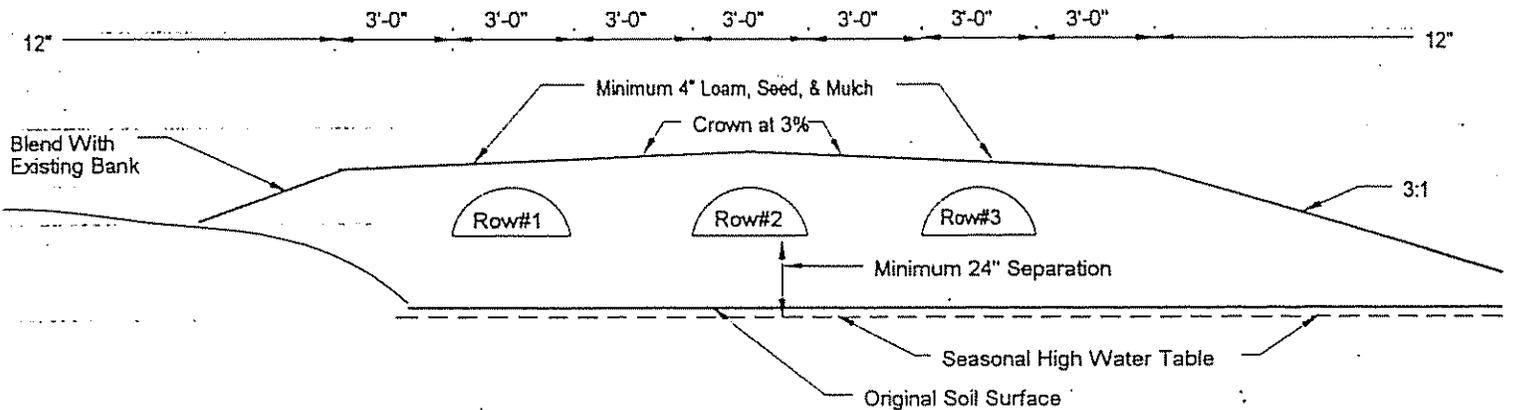
NOTE: REMOVE WITHIN TREES NEAR DISPOSAL AREA

FILL REQUIREMENTS	CONSTRUCTION ELEVATIONS	ELEVATION REFERENCE POINT
Depth of Fill (Upslope) <u>4.5'</u>	Finished Grade Elevation <u>-20"</u>	Location & Description <u>WALK IN 20"</u>
Depth of Fill (Downslope) <u>4.5'</u>	Top of Distribution Pipe or Proprietary Device <u>-28"</u>	<u>TREE, 21" FROM GROUND</u>
	Bottom of Disposal Area <u>-44"</u>	Reference & Elevation _____

DISPOSAL AREA CROSS SECTION

Scale:  
Vertical: 1" = 5 Ft.  
Scale: 1" = 5 Ft.

Note: Use 4-6" Very Coarse Sand or Screened Gravel Around Chambers  
Balance Of Fill To Be Gravelly And Loamy Sand With Sufficient  
Fines For Adequate Compaction. In 8" Lifts, Compacted As Placed.



Stephen P. Robbins  
Site Evaluator Signature

301  
SE #

25 AUG 97  
Date

ATTACHMENT TO HHE-200

Notes:

1. Construction to conform with "State of Maine Subsurface Wastewater Disposal Rules".
2. Property lines shown are as provided by owner, agent, or municipality. No guarantee of accuracy is implied. Actual property lines must be confirmed by survey.
3. Remove organic material and scarify ~~pot till~~ narrow area under drainfield and fill extensions.
4. Unless otherwise specified, all fill will be gravelly and loamy sand with sufficient fines for adequate compaction. In 8" lifts, compacted as placed.
5. Septic tanks and pump stations shall be installed watertight to prevent infiltration of ground and surface water.
6. Force mains, pump stations, and or gravity piping subject to freezing shall be adequately insulated.
7. Unless otherwise specified, septic tank to be located a minimum 8', and drainfield to be located a minimum 20' from proposed or existing home and or buildings.
8. A septic tank outlet filter is recommended.
9. If replacement system with new tank, old tank to be filled with soil or removed. If old tank is to be utilized, is to be thoroughly inspected for condition.
10. Unless otherwise specified, this plan does not allow the placement of pumps between the wastewater source and the septic tank.
11. Water from gutters, driveways, walks, and other surface water to be diverted away from system.
12. Loam, seed and mulch all disturbed areas to prevent erosion and facilitate runoff.
13. Unless otherwise specified, keep traffic heavier than lawn tractor away from all components of system.
14. Keep sanitary napkins, cigarette butts, coffee grounds, paper towels, grease, and nonbiodegradables out of system.
15. Unless otherwise specified, proposed wells shall be located a minimum 100' from disposal system, including tank.
16. Many times it is impossible to locate water supplies. Property owner assumes responsibility of proper setback to any unknown water supplies.
17. Take 3 copies of the plan to your local plumbing inspector for required permit.

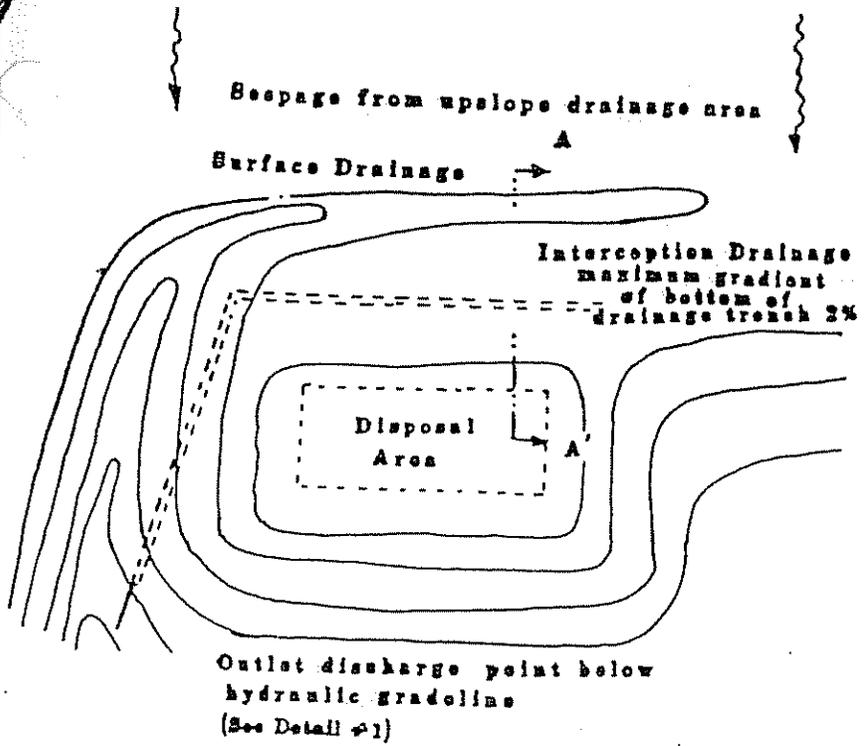
*Steph P Robbin*

*S.E.#301*

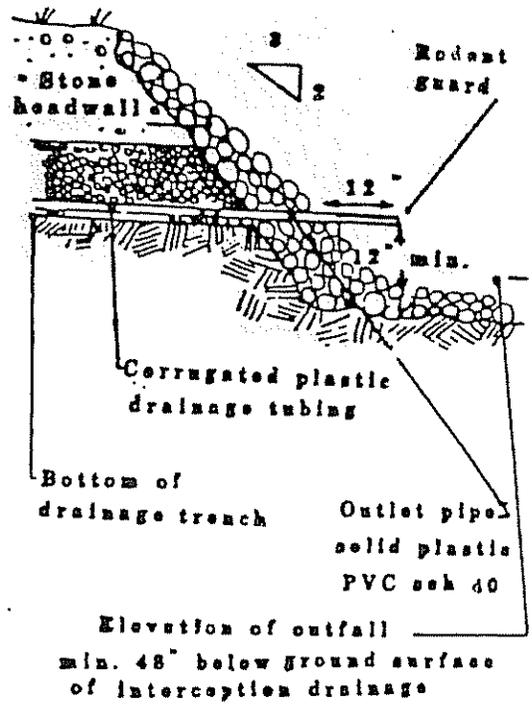
*25 AUG 97*

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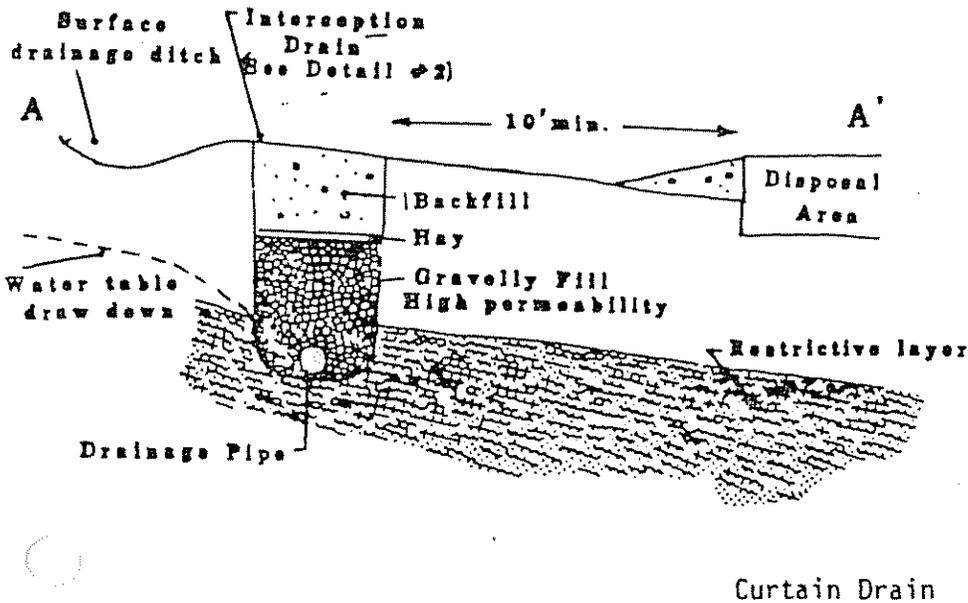
# PLAN VIEW



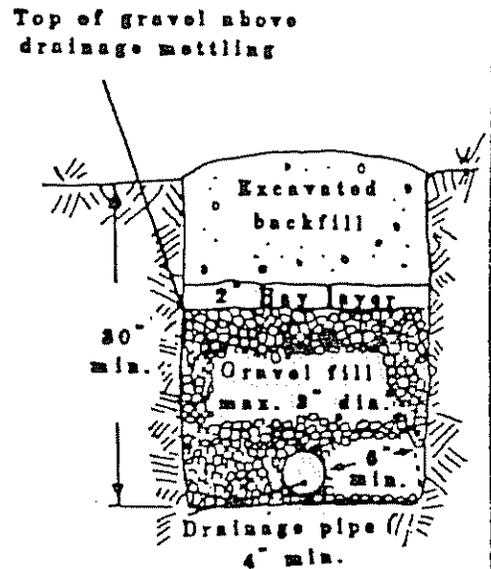
# DETAIL #1



# CROSS-SECTION



# DETAIL #2



*Stephen P. Plakos*  
Site Evaluator Signature

301  
SE#

25 AUG 97  
Date

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