

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY ADDRESS

Town Or Plantation: **AUGUSTA**

Street: **Sanford Road**

division Lot #: _____

PROPERTY OWNERS NAME

Last: **Merrick** First: **Ben**

Applicant Name: _____

Mailing Address of Owner/Applicant (If Different): **Sanford Road
Augusta, Maine 04330**

M/L80A

AUGUSTA PERMIT # **573** TOWN COPY

Date Permit Issued: **10/1/85** \$ **400.00** FEE Double Fee Charged

Robert B. St Pierre L.P.I. # **667**

Local Plumbing Inspector Signature

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.

B. Merrick 10/1/85

Signature of Owner/Applicant Date

Caution: Inspection Required

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

George St Pierre

Local Plumbing Inspector Signature Date Approved **9/3/86**

PERMIT INFORMATION

THIS APPLICATION IS FOR:

- NEW SYSTEM
- REPLACEMENT SYSTEM
- EXPANDED SYSTEM
- SEASONAL CONVERSION
- EXPERIMENTAL SYSTEM

THIS APPLICATION REQUIRES:

- NO RULE VARIANCE REQUIRED
- 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

INSTALLATION IS:

COMPLETE SYSTEM

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

INDIVIDUALLY INSTALLED COMPONENTS:

- TREATMENT TANK (ONLY)
- HOLDING TANK
- ALTERNATIVE TOILET (ONLY)
- NON-ENGINEERED DISPOSAL AREA (ONLY)
- ENGINEERED DISPOSAL AREA (ONLY)
- SEPARATED LAUNDRY SYSTEM

IF REPLACEMENT SYSTEM:

YEAR FAILING SYSTEM INSTALLED _____

THE FAILING SYSTEM IS:

- BED
- CHAMBER
- TRENCH
- OTHER: _____

DISPOSAL SYSTEM TO SERVE:

- SINGLE FAMILY DWELLING
- MODULAR OR MOBILE HOME
- MULTIPLE FAMILY DWELLING
- OTHER _____ SPECIFY

SIZE OF PROPERTY
2.7 Ac.

ZONING
Rural (RU)

TYPE OF WATER SUPPLY
Proposed Drilled Well

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

- SEPTIC: Regular Low Profile
- AEROBIC

SIZE: **1,000** GALS.

WATER CONSERVATION

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

SPECIFY: _____

PUMPING

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

DOSE: _____ GALS.

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

4 Bedroom multiple family dwelling

minimum design flow

DESIGN FLOW: **360** (GALLONS/DAY)

SOIL CONDITIONS USED FOR DESIGN PURPOSES

PROFILE	CONDITION
5	C

DEPTH TO LIMITING FACTOR: **31**

SIZE RATINGS USED FOR DESIGN PURPOSES

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

DISPOSAL AREA TYPE/SIZE

- BED **940** Sq. Ft.
- CHAMBER _____ Sq. Ft.
 REGULAR H-20
- TRENCH _____ Linear Ft.
- OTHER: _____

SITE EVALUATOR STATEMENT

SITE EVALUATION WAIVED BY LOCAL OPTION

On **9/5/85** (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.

Thomas A. Wendell

Site Evaluator Signature

178

SE#

9/7/85

Date

* Local Plumbing Inspectors Signature if a Local Site Evaluation Waiver under a Local Option

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Town, City, Plantation
AUGUSTA

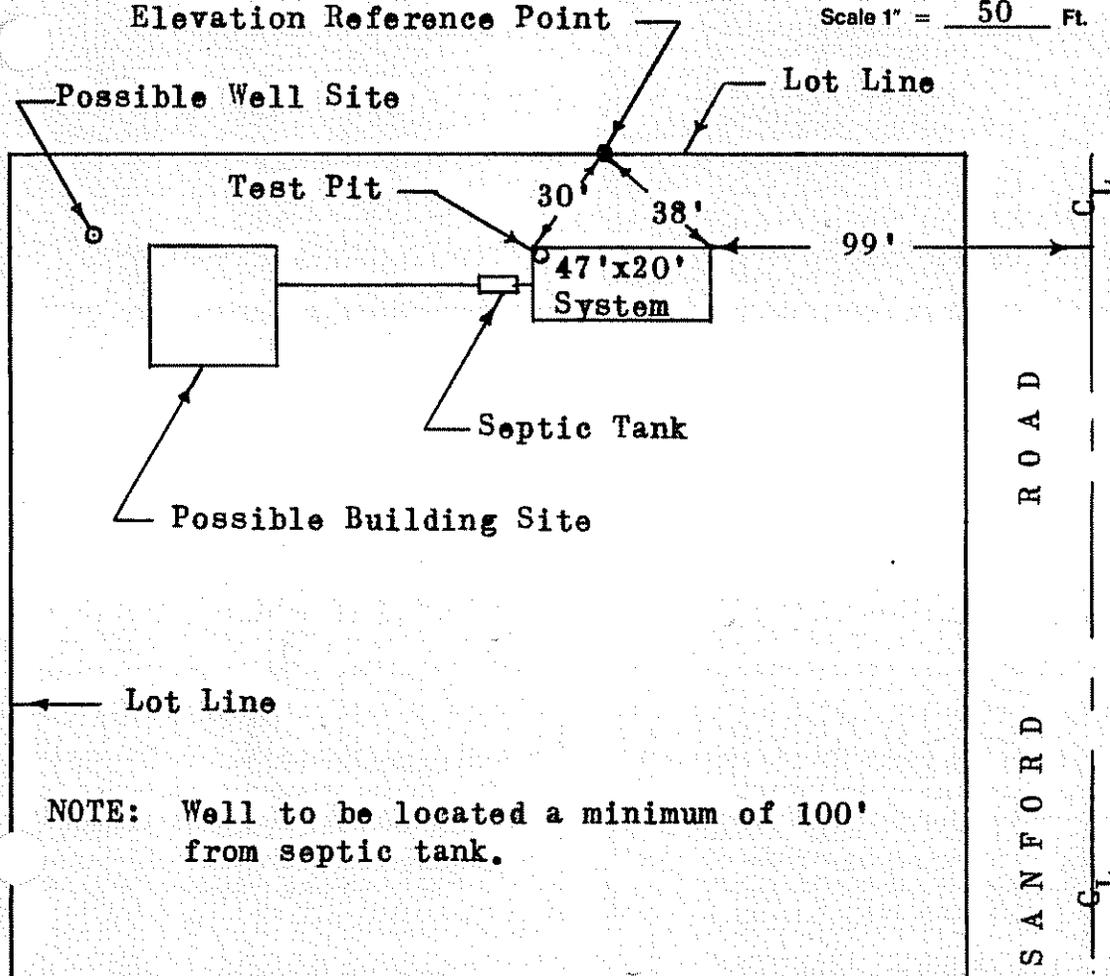
Street, Road, Subdivision
Sanford Road

Owners Name
Ben Merrick

SITE PLAN

Scale 1" = 50 Ft.

SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)



NOTE: Well to be located a minimum of 100' from septic tank.

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			dark	
6	loamy		brown	
10			reddish	
15	sand		brown	
20		friable	light	
30			brown	
35	sand		olive	few
40			brown	
45			to	
50			gray	

Soil Profile 5	Classification Condition C	Slope 11 %	Limiting Factor 31	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock
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Observation Hole Test Pit Boring

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0				
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30				
40				
50				

Soil Profile	Classification Condition	Slope %	Limiting Factor	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock
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Thomas A. Wendell

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Town, City, Plantation
AUGUSTA

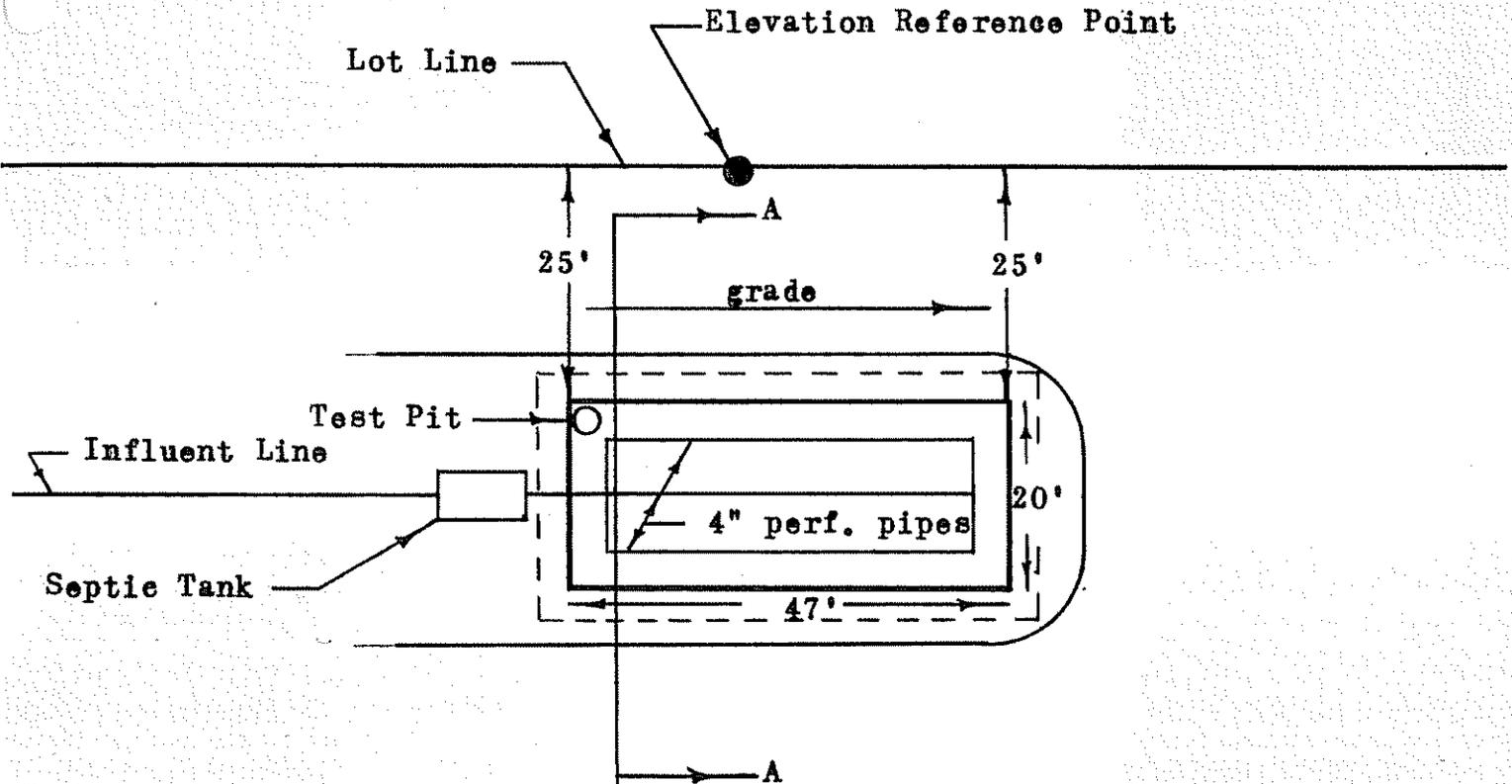
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SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20 Ft.



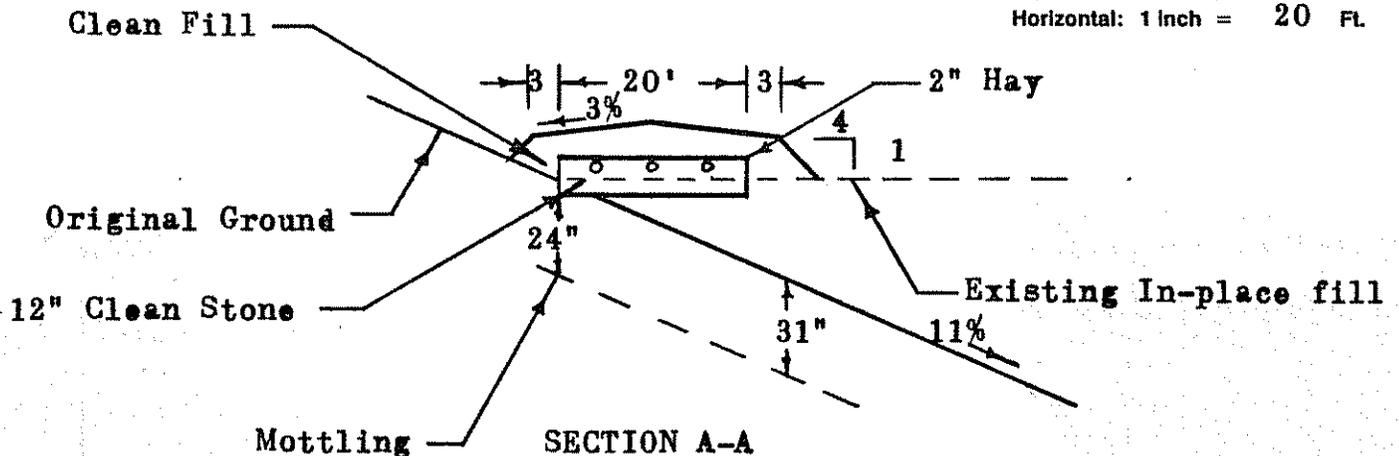
NOTE: Elevation Reference Point is a nail 12" above ground in a 10" dbh pine tree and is 33" above finish grade for the bed system as staked out.

FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT LOCATION & DESCRIPTION
Depth of Fill (Upslope)	<u>17"</u>	Reference Elevation is	<u>0"</u>	see note above
Depth of Fill (Downslope)	<u>44"</u>	Bottom of Disposal Area	<u>-57"</u>	
		Top of Distribution Lines or Chambers	<u>-46"</u>	

DISPOSAL AREA CROSS SECTION

Scale:

Vertical: 1 inch = 5 Ft.
 Horizontal: 1 inch = 20 Ft.



Thomas A. Wendell

[b] Small diameter pressure pipe in a pressure distribution system.

[3] A minimum total of 12 inches of stone free of fines, dust, ashes, or clay or other similar durable and insoluble material of uniform size, 3/4 to 3 inches shall be used on the bottom of the trench. The distribution line shall be installed totally within the stone.

[4] The stone shall be completely covered with one of the following materials:

[a] a minimum 2 inch layer of compressed hay.

[b] one layer of an approved non-woven filter fabric.

[c] one inch of fiberglass insulation.

[5] Clean backfill, 8-12 inches in depth, shall be carefully placed over the hay layer or approved substitute.

B. Bed Disposal Area Details

[1] A bed disposal area shall be sized in accordance with Table 12-2, and constructed in compliance with design standards of Section 11 and Table 11-1.

TABLE 12-2
Multiplying Factor for
Determining Bed Bottom Area

Disposal Area Rating From Table 6-1	Minimum Bed Bottom Area [square feet]
Small [ⓐ]	1.3 x Design Flow GPD
Medium	2.6 x Design Flow GPD
Medium Large	3.3 x Design Flow GPD
Large	4.1 x Design Flow GPD
Extra Large	5.0 x Design Flow GPD

[ⓐ] Conservative design flows in Table 7-1 shall be used for small size rated bed disposal areas serving single family dwellings.

[2] The distribution system shall be designed to uniformly distribute wastewater throughout the entire bed disposal area using one of the following distribution methods:

[a] perforated distribution pipe installed and aligned so that the holes are located in the lower half of the pipe and meet the materials standards listed in Table 8-1.

[b] Small diameter pressure pipe in a pressure distribution system.

[3] Distribution lines shall be installed a maximum of 5 feet from the bed's stone edge and equally spaced with a maximum separation distance between lines of 5 feet.

[4] A minimum total of 12 inches of stone free of fines, dust, ashes, or clay or other similar durable and insoluble material of uniform size, 3/4 to 3 inches shall be used on the bottom of the bed disposal area. The distribution system shall be installed totally within the stone.

[5] The stone shall be completely covered with one of the following materials:

[a] a minimum 2 inch layer of compressed hay.

[b] one layer of an approved non-woven filter fabric.

[c] one inch of fiberglass insulation.

[6] Clean backfill, 8-12 inches in depth, shall be carefully placed over the hay layer or approved substitute.

C. Chamber Disposal Area Details.

[1] Chamber disposal areas shall be sized in accordance with Table 12-3, and constructed in compliance with design standards of Section 11 and Table 11-1.

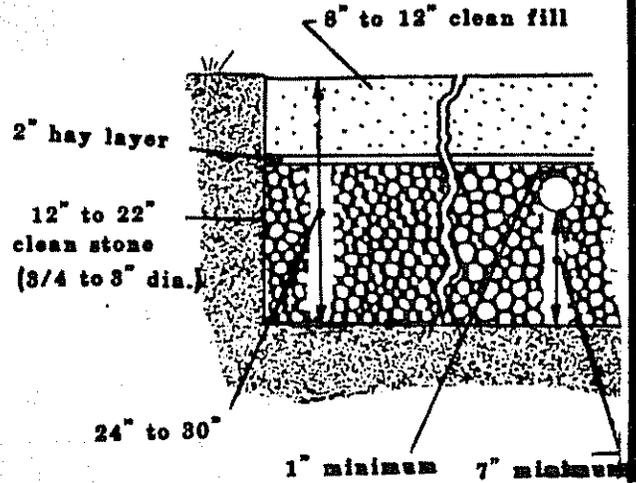
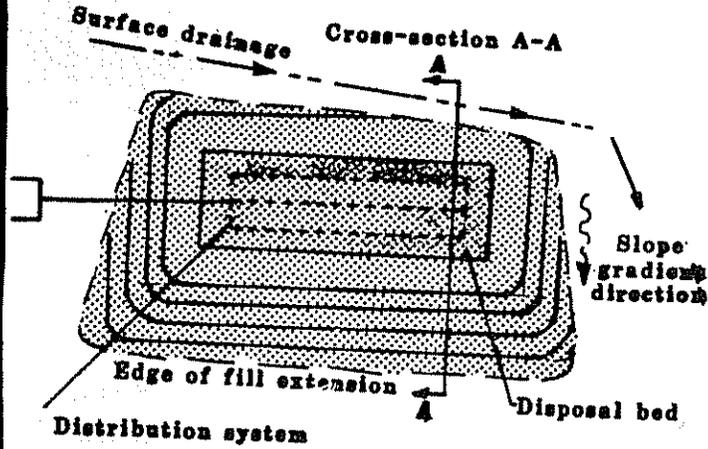
FROM MAINE PLUMBING CODE

FROM MAINE PLUMBING CODE

TYPICAL

Plan of Bed Area

Detail #1



CROSS-SECTION A-A

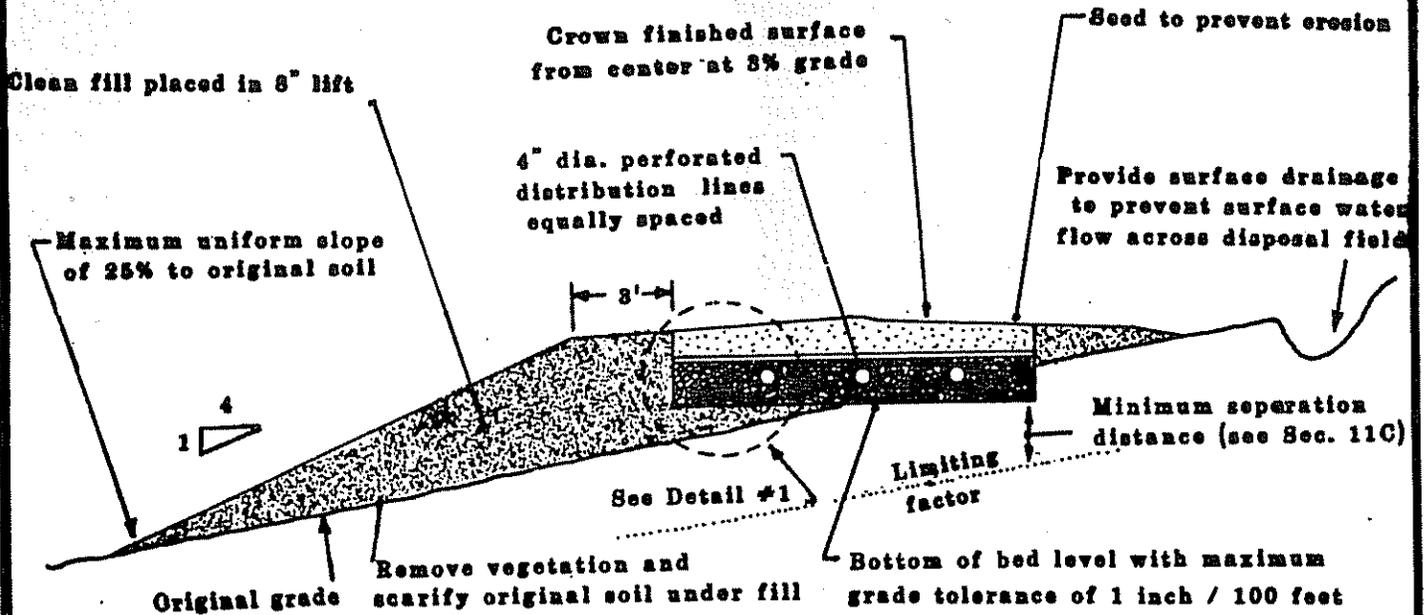


FIGURE 12-2 BED DISPOSAL AREA