

REPLACEMENT SYSTEM VARIANCE REQUEST

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THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application (HHE-200) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request and HHE-200 and may approve the Request if all of following requirements can be met, and the variance(s) requested fall within the limits of the LPI's authority.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 1903)
2. There will be no change in use of the structure except as authorized for one-time exempted expansions outside the shoreland zone of major waterbodies/courses.
3. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
4. The BOD₅ plus S. S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION

Permit No. 3994 Town of AUGUSTA

Date Permit Issued 7-31-98

Property Owner's Name: WILLIAM DANIELS Tel. No.: 622-0093

System's Location: OLD BELGRADE ROAD AUGUSTA

Property Owner's Address: RR 10 BOX 1268

(if different from above) AUGUSTA, ME 0435 1

SPECIFIC INSTRUCTIONS TO THE:

LOCAL PLUMBING INSPECTOR (LPI):
If any of the variances exceed your approval authority and/or do not meet all the requirements listed under the Limitations Section above, then 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, complete the Replacement System 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.

PROPERTY OWNER:

I understand that the proposed system requires a variance to the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.

Patricia M Daniels 7/30/98
SIGNATURE OF OWNER DATE

LOCAL PLUMBING INSPECTOR:

I, Shay R. Sullivan, the undersigned, have visited the above property and have determined to the best of my knowledge that it cannot be installed in compliance with the Rules. As a result of my review of the Replacement 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. --OR--

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/she shall state his/her reasons in Comments Section below as to why the proposed replacement system is not being recommended.

Comments _____

Shay R. Sullivan 7/31/98
LPI SIGNATURE DATE

Replacement System Variance Request

VARIANCE CATEGORY	VARIANCE REQUESTED		LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
SOILS						
Soil Profile	Ground Water Table		to 7"		Inches	
Soil Condition	Restrictive Layer		to 7"		Inches	
from HHE-200	Bedrock		to 12"		Inches	
SETBACK DISTANCES (in feet)	Disposal Fields		Septic Tanks		Disposal Fields	Septic Tanks
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 ^a ft	300 ^a ft	100 ^a ft	100 ^a ft		
Owner's wells	100 down to 50 ft	200 down to 100 ft	100 ^b down to 50 ft	100 down to 50 ft		
Neighbor's wells	100 ^b down to 60 ft	200 ^b down to 120 ft	100 ^b down to 50 ft	100 ^b down to 75 ft		
Water supply line	10 ft ^a	20 ft ^a	10 ft ^a	10 ft ^a		
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 ^d	25 ft ^d	25 ft ^d	25 ft ^d		
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	10'	
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 ^c ft	18 ft down to 9 ^c ft	10 ft down to 4 ^c ft	10 ft down to 7 ^c ft		
Burial sites or graveyards, measured from the downhill toe of the fill extension	25 ft	25 ft	25 ft	25 ft		

OTHER

1. Fill extension Grade - to 3:1 **REDUCE SLOPE TO LESS THAN 25 % NEAR PROPERTY LINE TO MAINTAIN FILL ON PROPERTY**

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.

WILLIAM P BROWN

SITE EVALUATOR'S SIGNATURE

7/29/98

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

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207)287-6672 FAX (207)287-4172

PROPERTY LOCATION

Town or Location: **AUGUSTA**
Street Subdivision Lot #: **OLD BELGRADE ROAD**

AUGUSTA 3994 TOWN COPY
Date Permit Issued: 7/31/98 \$ 120 FEE If Double Fee Charged
Local Plumbing Inspector Signature: [Signature] L.P.I. # 852

PROPERTY OWNERS NAME

Last: **DANIELS** First: **WILLIAM**

Applicant's Name: **RR 10 BOX 1268**

Mailing Address of Owner: **AUGUSTA, ME 04330**

Daytime Tel. #: **622-0093**

Municipal Tax Map # 76 Lot # 18

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: [Signature] Date: _____

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: [Signature] Date Approved: 8/27/98

PERMIT INFORMATION

TYPE OF APPLICATION:

- First Time System
- Replacement System
Type Replaced TRENCH
Year Installed 50'S
- Expanded System
 - a. one-time exempted
 - b. non-exempted
- Experimental System
- Seasonal Conversion

THIS APPLICATION REQUIRES:

- No Rule Variance
- First Time System Variance
 - a. Local Plumbing Inspector approval
 - b. State & Local Plumbing Inspector approval
- Replacement System Variance
 - a. Local Plumbing Inspector approval
 - b. State & Local Plumbing Inspector approval
- Minimum Lot Size Variance
- Seasonal Conversion Variance

DISPOSAL SYSTEM COMPONENT(S):

- Non-Engineered System
- Primitive System (graywater & alt. toilet)
- Alternative Toilet
- 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)
- Pretreatment

SIZE OF PROPERTY

0.4 ACRES

DISPOSAL SYSTEM TO SERVE:

- Single Family Dwelling Unit
- Multiple Family Dwelling Unit
Number of Units _____
- OTHER _____

SHORELAND ZONING

Yes No

TYPE OF WATER SUPPLY

CITY WATER

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

- Concrete
 - a. Regular
 - b. Low Profile
 - Plastic
 - Other _____
- SIZE: 1000 Gallons

DISPOSAL AREA TYPE/SIZE

- Bed _____ Sq. Ft.
- Proprietary Device 900 Sq. Ft.
 - Clustered Linear
 - Regular H-20
- Trench
- Other _____

GARBAGE DISPOSAL UNIT

- No
 - Yes
 - Multi-compartment Tank
 - Tank in Series
 - Increase in tank capacity
 - Filter on Tank Outlet
- RECOMMENDED**

CRITERIA USED FOR DESIGN FLOW (Show Calculations)

2 BEDROOM HOME

PROFILE & DESIGN CLASS

PROFILE: 9 DESIGN: C
DEPTH TO MOST LIMITING FACTOR: 13 "

DISPOSAL AREA SIZING

- Small - 2.00
- Medium - 2.60
- Medium-Large - 3.30
- Large - 4.10
- Extra-Large - 5.00

PUMPING

- Not Required
- May Be Required
- Required

DOSE _____ Gallons

DESIGN FLOW: 180
(Gallons/Day)

SITE EVALUATOR'S STATEMENT

On 7 / 29 / 98 (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]
Site Evaluator Signature

188
SE#

7/29/98
Date

WILLIAM P BROWN
Print Name

293-2110
Telephone

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5872 FAX 207 287-4172

Town, City, Plantation

Street, Road, Subdivision

Owners Name

AUGUSTA

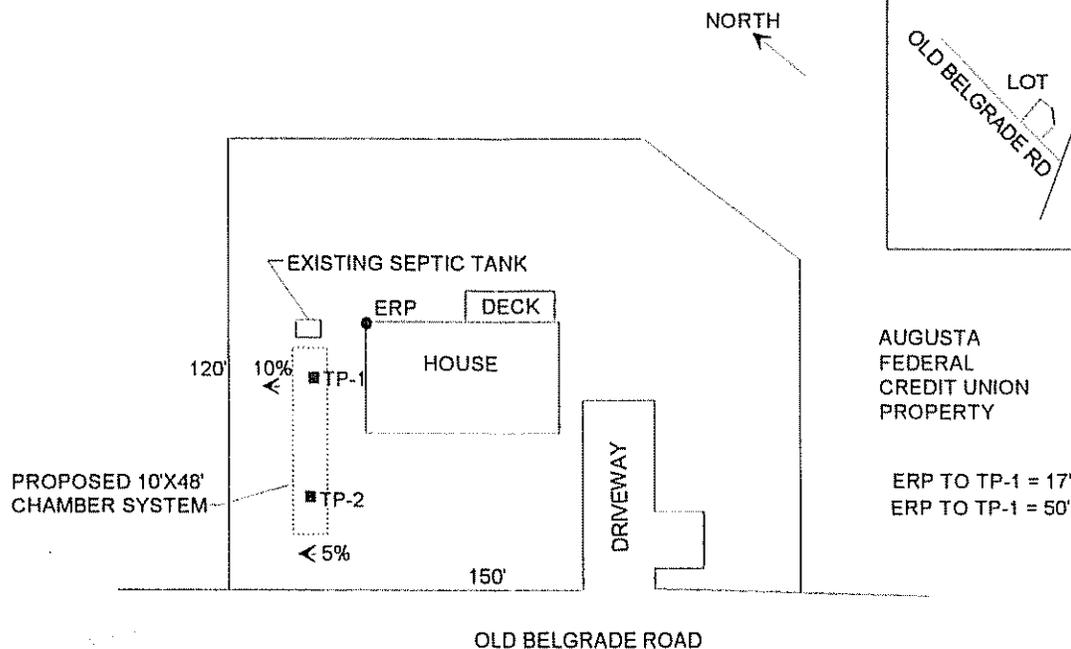
OLD BELGRADE ROAD

WILLIAM DANIELS

SITE PLAN

Scale 1" = 50 Ft.

SITE LOCATION PLAN
(Map from Maine Atlas recommended)



AUGUSTA
FEDERAL
CREDIT UNION
PROPERTY

ERP TO TP-1 = 17'
ERP TO TP-2 = 50'

THE SOILS ENCOUNTERED IN THE TEST PITS CONTAIN FROM 7 TO 12 INCHES OF FILL THAT HAS BEEN ON SITE FOR APPROX 40 YEARS. THE FILL SOIL VARIES FROM SILT LOAM AT TP-2 TO FINE SAND AT TP-1. IT IS MY OPINION THAT THE FILL MATERIAL IS OF A SUITABLE TEXTURE TO BE CONSIDERED EQUIVALENT TO ORIGINAL SOIL FOR DESIGN PURPOSES

SOIL DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole TP-1 Test Pit Boring
0" Depth of Organic Horizon Above Mineral Soil

Observation Hole TP-2 Test Pit Boring
0" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0	SILT & SAND FILL	FRIABLE	MEDIUM BROWN	
10	FINE SAND		LIGHT BROWN	NONE
20	LOAM		MED BRN	COMMON
30	SILT CLAY LOAM	FIRM	OLIVE BRN	
40				
50				

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0	SILT & SAND FILL	FRIABLE	LIGHT BROWN	
10	LOAM		MED BRN	NONE
20	SILT W/SAND	FIRM	OLIVE BRN	COMMON
30				
40				
50				

Soil Classification **9** Slope **10 %** Limiting Factor **15 "**
Profile Condition
 Ground Water
 Restrictive Layer
 Bedrock
 Pit Depth

Soil Classification **8** Slope **5 %** Limiting Factor **15 "**
Profile Condition
 Ground Water
 Restrictive Layer
 Bedrock
 Pit Depth

WILLIAM P BROWN *William P Brown*
Site Evaluator Signature

188
SE #

7/29/98
Date

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SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation

Street, Road, Subdivision

Owners Name

AUGUSTA

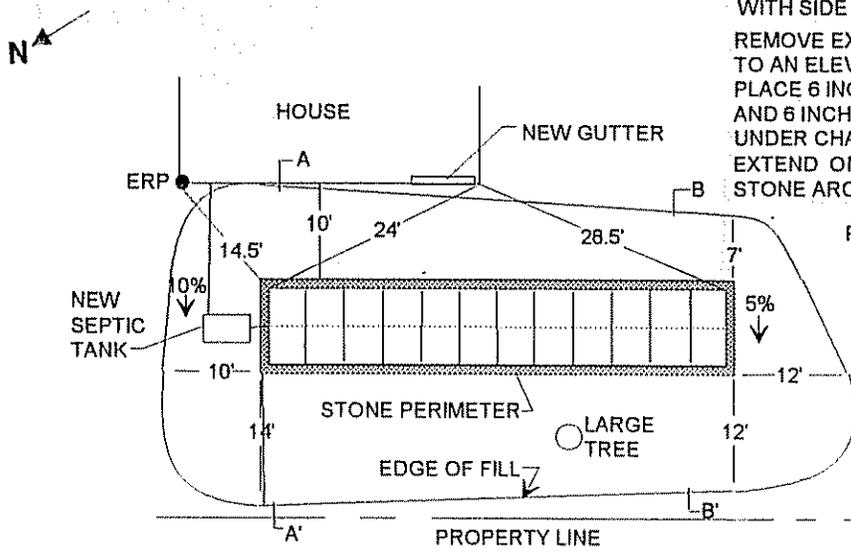
OLD BELGRADE ROAD

WILLIAM DANIELS

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20' Ft.

INSTALL 12- 4' X 8' CONCRETE CHAMBERS WITH SIDE ENTRY DISTRIBUTION PIPING
REMOVE EXISTING SOIL IN AREA OF CHAMBERS AND STONE TO AN ELEVATION OF 50 INCHES BELOW THE NAIL PLACE 6 INCHES OF GRAVELLY COARSE SAND AND 6 INCHES OF VERY COARSE GRAVELLY SAND UNDER CHAMBERS
EXTEND ONE FOOT WIDE PERIMETER OF CRUSHED STONE AROUND THE CHAMBERS



PROTECT LARGE TREE

RAISE INTERNAL PLUMBING TO AVOID PUMP

INSTALL SHORT GUTTER ON EAVE FACING SYSTEM DIRECT RUNOFF AWAY FROM DISPOSAL SYSTEM

STEEPEN SLOPE TO LESS THAN 4:1 NEAR PROPERTY LINE

PUMP OUT AND REMOVE EXISTING CONCRETE TANK
INSTALL NEW 1000 GALLON SEPTIC TANK

MEASUREMENTS FOR LAYOUT PURPOSES ARE FROM EDGE OF CONCRETE CHAMBERS

MEASUREMENTS FOR SET-BACK PURPOSES ARE FROM EDGE OF STONE PERIMETER

FILL REQUIREMENTS

Depth of Fill (Upslope) 14-26"
Depth of Fill (Downslope) 21-31"

CONSTRUCTION ELEVATIONS

Reference Elevation is 00"
Bottom of Disposal Area -38"
Top of distribution Lines or Chambers -25"

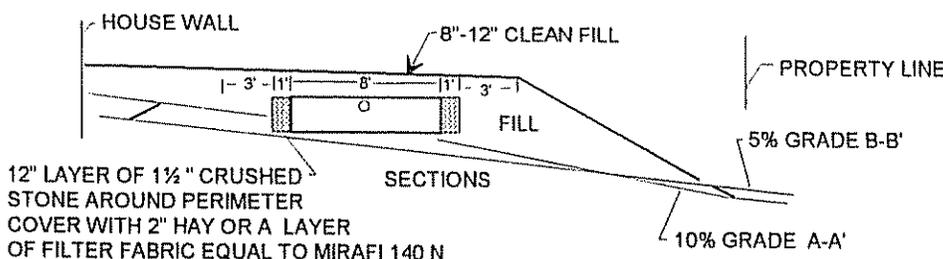
ELEVATION REFERENCE POINT LOCATION & DESCRIPTION

BOTTOM OF ALUMINUM SIDING

DISPOSAL AREA CROSS SECTION

Scale:

Vertical: 1 inch = 5 Ft.
Horizontal: 1 inch = 10 Ft.



REMOVE SOIL TO 50 INCHES BELOW ERP
REPLACE WITH 6 INCHES GRAVELLY COARSE SAND AND 6 INCHES VERY COARSE GRAVEL
MIX FILL MATERIAL WITH EXISTING SOIL TO FORM A TRANSITION ZONE (ACCORDING TO CHAPTER 12, PLUMBING CODE)
ALL FILL SHALL BE GRAVELLY COARSE SAND
CROWN FINISH GRADE FROM CENTER AT 3% OR SLOPE ALL ONE-WAY FROM HOUSE
LOAM, SEED, MULCH

COVER TOP SEAMS BETWEEN CONCRETE CHAMBERS WITH HAY OR FABRIC

WILLIAM P BROWN
Site Evaluator Signature

William P Brown

188
SE #

7/29/98
Date

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