

M94 U6

# 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

Permit No. 36076 E Town of AUGUSTA  
 Date Permit Issued 12/5/96  
MONTH/DAY/YEAR

Property Owner's Name: DONALD GALLAGHER Tel. No. \_\_\_\_\_

System's Location: TOGUS STREAM ROAD  
STREET  
AUGUSTA ME 04330 Maine \_\_\_\_\_  
TOWN ZIP

Town Copy

Property Owner's Address: \_\_\_\_\_  
 (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.

Donald Gallagher 12-6-96  
 PROPERTY OWNER'S SIGNATURE DATE

AUGUSTA

TOGUS STREAM ROAD

DONALD GALLEGHAN

12-4-96

VARIANCE CATEGORY	VARIANCE REQUESTED	LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
SOILS Soil Profile <i>2C</i> 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'	25'	50'
	3. Water Supply Line	See note 'a'			
Waterbodies	1. Perennial	50'	60'		60'
	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'	5'	10'
Property Line		4'	5'		

OTHER

1. Fill extension Grade—to 3:1

2.

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 top of the fill does not extend to the 3:1 slope.

*David Studer*  
SIGNATURE OF APPLICATOR'S SIGNATURE

12-4-96  
DATE

LPI STATEMENT

*Way R. Laska*, LPI for the Town of *Augusta* 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.

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

Comments:

*Way R. Laska*  
LPI'S SIGNATURE

12/5/96  
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

David L. Studer, LSE  
93 Sprague Rd.  
Washington, ME 04574  
1-800-763-4088

## SEPTIC SYSTEM USER NOTES

1. This septic system has been designed to meet requirements of the State of Maine Subsurface Waste disposal rules, 10-144A CMR 241. Because site Evaluators are not notified when local ordinances are enacted which exceed state requirements, it is the homeowner's responsibility to ensure that this system design (HHE-200 form) is in compliance with local ordinances. This can be done by contacting your local LPI and asking about local ordinances which differ from those required in the Rules.
2. It is the homeowner's responsibility to obtain any local, state or federal permit(s) that may be required for the installation of this septic system (work within or adjacent to a wetland may require a state and/or federal permit). Contact the Maine Dept. of Environmental Protection at 289-2111 or the Army Corps of Engineers at 623-8367, if you have any questions.
3. The use of a garbage grinder on a septic system is not recommended. If a garbage grinder is to be used, additional tank capacity, filters such as the Zabel A-100, and more frequent tank pumping is recommended.
4. It is recommended that the homeowner install low volume toilets (1 1/2 gallon or less per flush) and other flow reducing fixtures to minimize water consumption. This should extend the life of the system, all other things being equal.
5. It is the homeowners responsibility to limit water consumption and waste water so that the septic system design capacity is not exceeded on any day. Activities which generate large amounts of wastewater, such as laundries, should be spread out over several days rather than doing a number of them on a particular day. Excessive use of a system on any day (typically weekends for working couples) can cause the system to fail, even if the flow averaged out over the month or week is below design volume.
6. Do not connect roof or floor drains to a septic system. The system is not designed to handle this water and may cause premature failure. Do not dispose of backwash from water softeners or water treatment devices for the same reason.
7. Do not dispose of any hazardous or toxic substances in a septic system, such as paint, paint thinners & solvents, varnishes, photographic solutions, pesticides, insecticides, organic solvents or degreasers, and drain cleaners or openers. Instead of a commercial degreaser or drain opener, use one of the following:
  - a. A plunger or mechanical snake, or
  - b. Pour 1 handful of baking soda and 1/2 cup of white vinegar down the drain pipe and cover for one minute. Repeat as necessary, or
  - c. Pour 1/2 cup salt and 1/2 cup baking soda down the drain followed by 6 cups of boiling water. Let sit several hours or overnight. Then flush with water.
8. Do not dispose of any inert or non-biodegradeable substances into your septic system such as disposable diapers, cat box litter, coffee grounds, cigarette filters, sanitary napkins, facial tissues and wet strength paper towels.
9. Do not dispose of large quantities of fats or grease into your septic system unless an external grease trap has been installed for that purpose. Generally, an internal grease trap is inadequate to handle excessive amounts of grease or fat.
10. Do not add any septic tank cleaner or additive to your septic system to improve its function or prolong its useful operating life. This includes yeast, horse manure, or commercial products. No effective product or material is recognized by State authorities and some products may cause your system to fail.
11. Maintain your septic system by regularly having the septic tank pumped. Some biological breakdown of solid and grease occurs in the tank but the rate of accumulation virtually always exceeds the rate of breakdown. If your tank is not pumped often enough, solids and greases may build up to the point where they enter the disposal area. Once this material reaches the disposal area it will clog the soil surface and likely cause premature failure.

I recommend having your septic tank pumped or inspected after one year of use. The pumper can advise you how often you need to have the tank pumped based on what he finds at this inspection. Typically a tank is pumped every 2 to 5 years. Adjust the pumping frequency with changes in how you use the system--the more you use the system, the more frequently the tank should be pumped.
12. Do not drive or store heavy materials on any part of your septic system, unless it is designed specifically to handle heavy loads. Otherwise, crushed components may result in system failure.
13. Divert all surface water away from the septic tank and disposal area. Roof area that contributes runoff water to septic system site should have gutters installed to divert water to another location.
14. PLEASE- If you have any questions about your system or how to use it call and ask me for advice at (207) 845-2352. You can also call the Division of Health Engineering at 289-5672.

DAVID STUDER, LSE #275

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering  
(207) 287-5672 FAX (207) 287-4172

**PROPERTY LOCATION**

Town or Plantation: AUGUSTA

Street Subdivision Lot #: TOGUS STREAM RD

**PROPERTY OWNERS NAME**

Last: GALLAGHER First: DONALD

Mailing Address of Owner: TOGUS STREAM RD  
AUGUSTA, ME, 04330

Daytime Tel. #: 623-5728

AUGUSTA 3607 TOWN COPY

Date Permit Issued: 12-5-96

Local Plumbing Inspector Signature: [Signature]

FEE: \$14.00  Double Fee Charged

L.P.I. #: 850

Municipal Tax Map # 4523 Page # 308

**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: 12-5-96

**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: 12/17/96

**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 A C I

**SHORELAND ZONING**  
 Yes  No

**DISPOSAL SYSTEM TO SERVE:**

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

**EXISTING TYPE OF WATER SUPPLY**  
DRILLED WELL

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

**TREATMENT TANK**

Concrete WITH  
 Regular ZABEL  
 Low Profile A-1800

Plastic FILTER

SIZE 1000 Gallons

**DISPOSAL AREA TYPE/SIZE**

- Stone Bed \_\_\_\_\_ Sq.Ft.
- Proprietary Device \_\_\_\_\_ Sq.Ft.
  - Clustered  Linear
  - Regular  H-20
- Trench \_\_\_\_\_ Lin. Ft.
- Other EL JEN IN-DRAIN

**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)

3 BEDROOMS  
270  
3:3  
871 ≈ 900  
900/48 = 18.75  
21 TYPE "B" UNITS  
3 ROWS OF 7 UNITS

DESIGN FLOW: 305  
(Gallons/Day)

**PROFILE & DESIGN CLASS**

PROFILE: 2 DESIGN: C

DEPTH TO MOST LIMITING FACTOR: 24"

**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 \_\_\_\_\_ Gallons

**SITE EVALUATOR'S STATEMENT**

On 12, 4, 96 (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: [Signature]  
Site Evaluator Signature

SE #: 275  
845-2352  
Telephone

Date: 12-4-96

David L. Studer, LSE  
83 Sprague Rd.  
Winchester, ME

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City or Plantation

Street, Road or Subdivision

Name of Owner

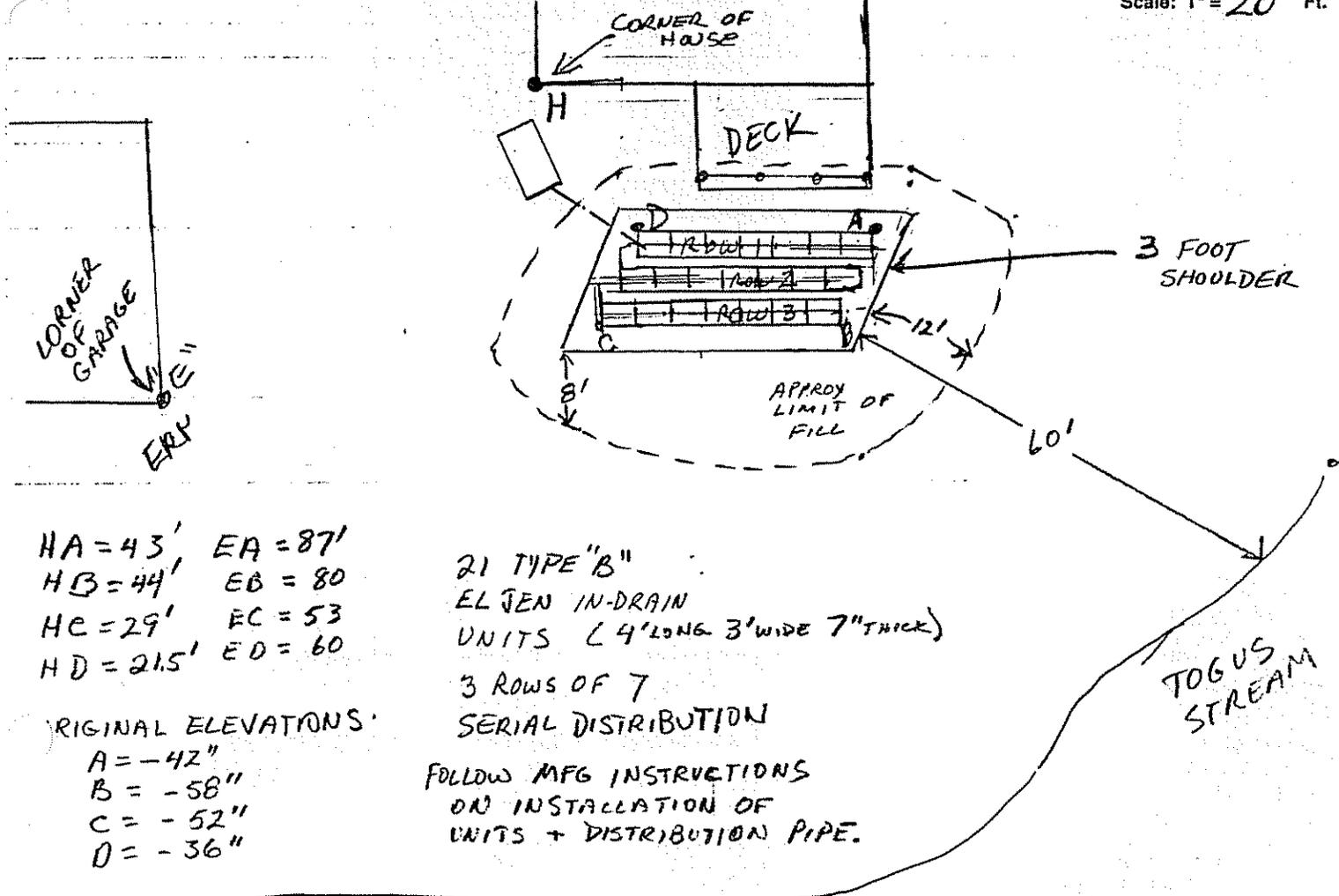
AUGUSTA

TOGUS STREAM ROAD

DONALD GALLAGHER

## SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale: 1" = 20 Ft.



HA = 43' EA = 87'  
 HB = 44' EB = 80'  
 HC = 29' EC = 53'  
 HD = 21.5' ED = 60'

21 TYPE "B"  
 ELJEN IN-DRAIN  
 UNITS (4' LONG 3' WIDE 7" THICK)

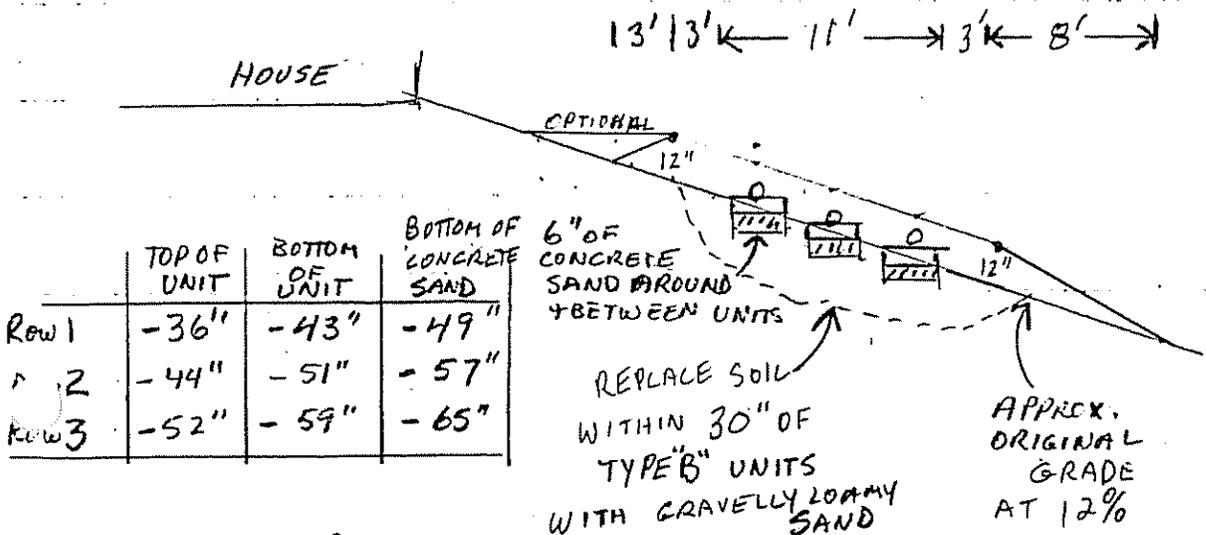
ORIGINAL ELEVATIONS:  
 A = -42"  
 B = -58"  
 C = -52"  
 D = -36"

3 ROWS OF 7  
 SERIAL DISTRIBUTION  
 FOLLOW MFG INSTRUCTIONS  
 ON INSTALLATION OF  
 UNITS + DISTRIBUTION PIPE.

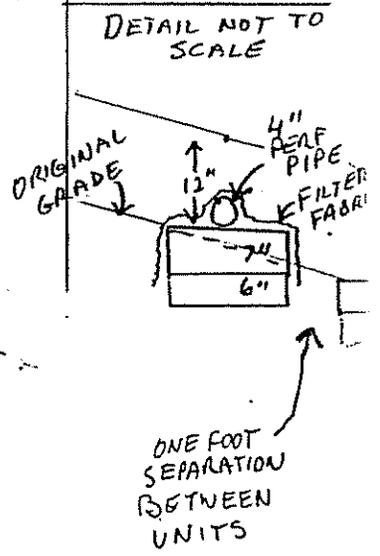
FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT	
Depth of Fill (Upslope)	12" - 20"	Finished Grade Elevation	12" OVER UNIT	Location & Description	FLAGGED NAIL IN CORNER OF GARAGE 56" ABOVE
Depth of Fill (Downslope)	12" - 18"	Top of Distribution Pipe or Proprietary Device	SEE BELOW	Reference & Elevation	0" GRADE
		Bottom of Disposal Area	SEE BELOW		

### DISPOSAL AREA CROSS SECTION THRU D → C

Scale:  
 Vertical: 1" = 5 Ft.  
 Scale: 1" = 10 Ft.



	TOP OF UNIT	BOTTOM OF UNIT	BOTTOM OF CONCRETE SAND
Row 1	-36"	-43"	-49"
Row 2	-44"	-51"	-57"
Row 3	-52"	-59"	-65"



David Studer  
 Site Evaluator Signature

275  
 SE #

12-4-96  
 Date

