

ADDENDUM NO. 1  
TO  
CITY OF AUBURN, MAINE  
2022-Septic Replace 2 Dunlap  
June 2, 2022

This addendum amends and /or supplements the bid documents as indicated below. Only these items alter the bid documents. Any verbal discussions or responses are hereby declared null and void. Please acknowledge this addendum on the attached Bid Form – Addendum #1.

**Clarifications to the Bid Documents:**

The following changes have been made to the Bid Documents:

**The Bid window has been changed and will remain open until:  
12:00PM Friday, June 10<sup>th</sup>, 2022.**

Question: Are there Variances for any of the following, Dug-Well (x4) Building (x1)?

Answer: Yes, Variance request was made and granted totaling four. (1) Reduce setback from Disposal field to property line (10' down to +/- 6'); (2) Reduce Set back from septic tank to well (50' down to 32'); (3) Reduce setback from disposal field to 3 dug wells (100' down to min. 40'); (4) Reduced setback from Shed on ground (offsite)to disposal field 915' down to 6').

Question: Is there an approved Subsurface Wastewater Disposal System design or existing design should be replicated?

Answer: Approved design is now available for review and attached with addendum to RFP.

Any pre-bid questions should be directed to Kevin Bean as there will be no further on-site conferences prior to bid closing.

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
Division of Health Engineering, 10 SHS  
(207) 287-5672 Fax: (207) 287-3165

## PROPERTY LOCATION >> CAUTION: LPI APPROVAL REQUIRED <<

City, Town, or Plantation	<b>Auburn</b>	Town/City _____	Permit # _____
Street or Road	<b>2 Dunlap St</b>	Date Permit Issued ____/____/____	Fee: \$ _____ Double Fee Charged <input type="checkbox"/>
Subdivision, Lot #		Local Plumbing Inspector Signature _____	L.P.I. # _____

## OWNER/APPLICANT INFORMATION

Name (last, first, MI) <b>Dan, Cindy</b>	<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant	The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. This Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.
Mailing Address of Owner/Applicant		
Daytime Tel. #	<b>207-576-1615</b>	

Municipal Tax Map # \_\_\_\_\_ Lot # \_\_\_\_\_

<p style="font-size: x-small; text-align: center;">OWNER OR APPLICANT STATEMENT</p> <p style="font-size: x-small;">I state and acknowledge 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.</p> <p style="text-align: right; font-size: x-small;">Signature of Owner or Applicant _____ Date _____</p>	<p style="text-align: center; font-size: x-small;">CAUTION: INSPECTION REQUIRED</p> <p style="font-size: x-small;">I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.</p> <p style="text-align: right; font-size: x-small;">Local Plumbing Inspector Signature _____ (1st) date approved _____ Local Plumbing Inspector Signature _____ (2nd) date approved _____</p>
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## PERMIT INFORMATION

<p style="text-align: center; font-size: x-small;">TYPE OF APPLICATION</p> <p><input type="checkbox"/> 1. First Time System</p> <p><input checked="" type="checkbox"/> 2. Replacement System</p> <p>Type replaced: <u>Concrete Chamber</u></p> <p>Year installed: <u>C. 1980</u></p> <p><input type="checkbox"/> 3. Expanded System</p> <p style="padding-left: 20px;"><input type="checkbox"/> a. &lt;25% Expansion</p> <p style="padding-left: 20px;"><input type="checkbox"/> b. &gt;= 25% Expansion</p> <p><input type="checkbox"/> 4. Experimental System</p> <p><input type="checkbox"/> 5. Seasonal Conversion</p>	<p style="text-align: center; font-size: x-small;">THIS APPLICATION REQUIRES</p> <p><input type="checkbox"/> 1. No Rule Variance</p> <p><input type="checkbox"/> 2. First Time System Variance</p> <p style="padding-left: 20px;"><input type="checkbox"/> a. Local Plumbing Inspector Approval</p> <p style="padding-left: 20px;"><input type="checkbox"/> b. State &amp; Local Plumbing Inspector</p> <p><input checked="" type="checkbox"/> 3. Replacement System Variance</p> <p style="padding-left: 20px;"><input type="checkbox"/> a. Local Plumbing Inspector Approval</p> <p style="padding-left: 20px;"><input checked="" type="checkbox"/> b. State &amp; Local Plumbing Inspector</p> <p><input type="checkbox"/> 4. Minimum Lot Size Variance</p> <p><input type="checkbox"/> 5. Seasonal Conversion Permit</p>	<p style="text-align: center; font-size: x-small;">DISPOSAL SYSTEM COMPONENTS</p> <p><input checked="" type="checkbox"/> 1. Complete Non-engineered System</p> <p><input type="checkbox"/> 2. Primitive System (graywater &amp; alt. toilet)</p> <p><input type="checkbox"/> 3. Alternative Toilet, specify: _____</p> <p><input type="checkbox"/> 4. Non-engineered Treatment Tank (only)</p> <p><input type="checkbox"/> 5. Holding Tank, _____ gallons</p> <p><input type="checkbox"/> 6. Non-engineered Disposal Field (only)</p> <p><input type="checkbox"/> 7. Separated Laundry System</p> <p><input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more)</p> <p><input type="checkbox"/> 9. Engineered Treatment Tank (only)</p> <p><input type="checkbox"/> 10. Engineered Disposal Field (only)</p> <p><input type="checkbox"/> 11. Pre-treatment, specify: _____</p> <p><input type="checkbox"/> 12. Miscellaneous Components</p>
<p style="text-align: center; font-size: x-small;">SIZE OF PROPERTY</p> <p style="font-size: x-small;">±0.26 <input type="checkbox"/> SQ. FT. <input checked="" type="checkbox"/> ACRES</p>	<p style="text-align: center; font-size: x-small;">DISPOSAL SYSTEM TO SERVE</p> <p><input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____</p> <p><input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____</p> <p><input checked="" type="checkbox"/> 3. Other: <u>Duplex (2) 2-Bedroom Apartments</u></p> <p style="font-size: x-small; text-align: center;">(specify)</p> <p style="font-size: x-small;">Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped</p>	<p style="text-align: center; font-size: x-small;">TYPE OF WATER SUPPLY</p> <p><input type="checkbox"/> 1. Drilled Well <input checked="" type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private</p> <p><input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other</p>

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

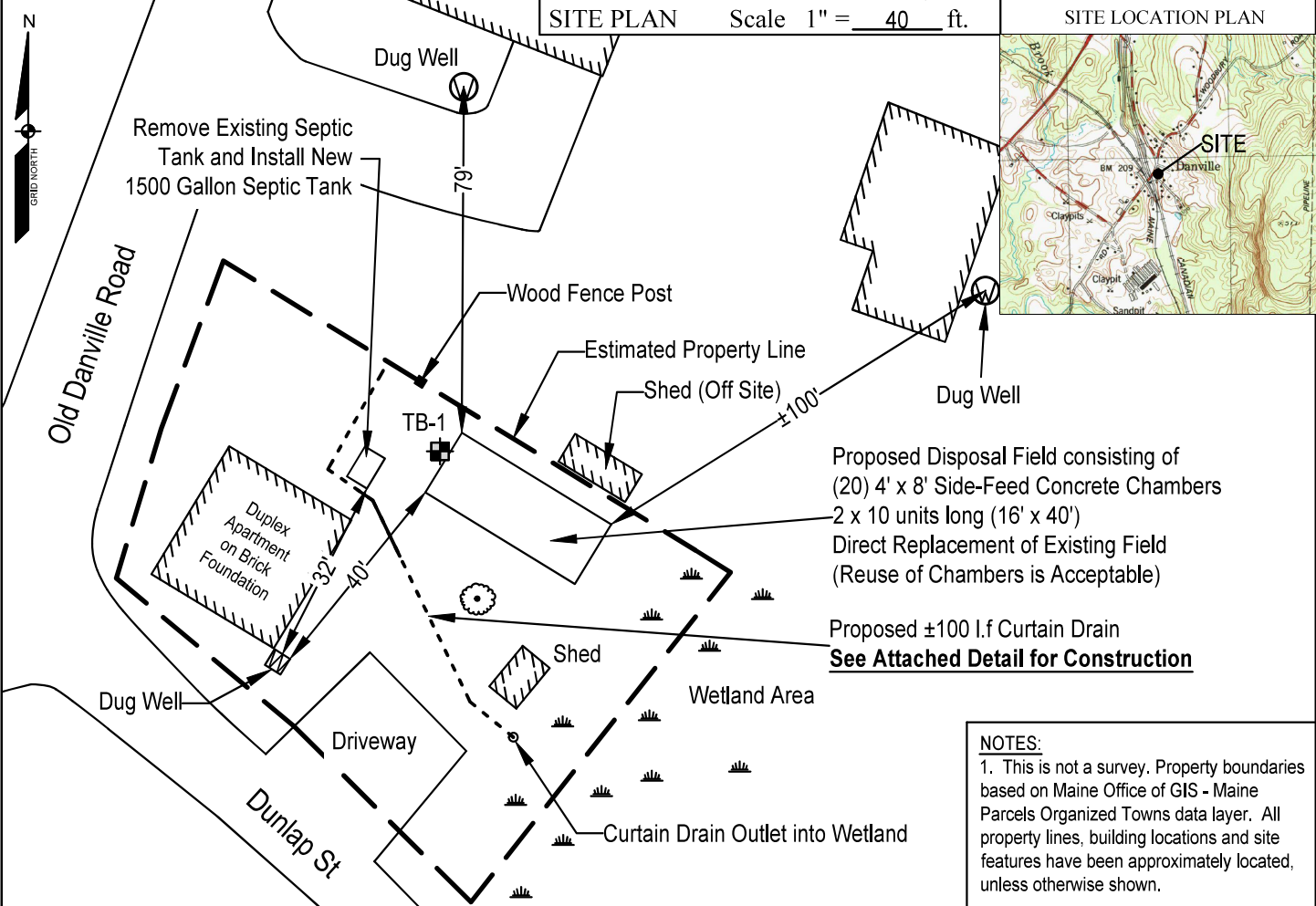
<p style="text-align: center; font-size: x-small;">TREATMENT TANK</p> <p><input checked="" type="checkbox"/> 1. Concrete</p> <p style="padding-left: 20px;"><input checked="" type="checkbox"/> a. Regular</p> <p style="padding-left: 20px;"><input type="checkbox"/> b. Low Profile</p> <p><input type="checkbox"/> 2. Plastic</p> <p><input type="checkbox"/> 3. Other: _____</p> <p style="font-size: x-small;">CAPACITY: <u>1,500</u> GAL</p>	<p style="text-align: center; font-size: x-small;">DISPOSAL FIELD TYPE &amp; SIZE</p> <p><input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench</p> <p><input checked="" type="checkbox"/> 3. Proprietary Device</p> <p style="padding-left: 20px;"><input checked="" type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear</p> <p style="padding-left: 20px;"><input checked="" type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load</p> <p><input type="checkbox"/> 4. Other: _____</p> <p style="font-size: x-small;">SIZE: <u>1280</u> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.</p>	<p style="text-align: center; font-size: x-small;">GARBAGE DISPOSAL UNIT</p> <p><input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe</p> <p style="font-size: x-small;">If Yes or Maybe, specify one below:</p> <p><input type="checkbox"/> a. multi-compartment tank</p> <p><input type="checkbox"/> b. ___ tanks in series</p> <p><input type="checkbox"/> c. increase in tank capacity</p> <p><input type="checkbox"/> d. Filter on Tank Outlet</p>	<p style="text-align: center; font-size: x-small;">DESIGN FLOW</p> <p style="font-size: x-small;">_____ <b>360</b> _____ gallons per day</p> <p style="text-align: center; font-size: x-small;">BASED ON:</p> <p><input checked="" type="checkbox"/> 1. Table 4A (dwelling unit(s))</p> <p><input type="checkbox"/> 2. Table 4C (other facilities)</p> <p style="text-align: center; font-size: x-small;">SHOW CALCULATIONS</p> <p style="text-align: center; font-size: x-small;">— for other facilities —</p>
<p style="text-align: center; font-size: x-small;">SOIL DATA</p> <p style="font-size: x-small;">PROFILE <u>7/12</u> CONDITION <u>C</u></p> <p style="font-size: x-small;">at Observation Hole # <u>TP-1</u></p> <p style="font-size: x-small;">Depth <u>16"</u></p> <p style="font-size: x-small;">of Most Limiting Soil Factor</p> <p style="text-align: center; font-size: x-small;">Groundwater</p>	<p style="text-align: center; font-size: x-small;">DISPOSAL FIELD SIZING</p> <p><input type="checkbox"/> 1. Medium—2.6 sq. ft. / gpd</p> <p><input checked="" type="checkbox"/> 2. Medium—Large 3.3 sq. ft. / gpd</p> <p><input type="checkbox"/> 3. Large—4.1 sq. ft. / gpd</p> <p><input type="checkbox"/> 4. Extra Large—5.0 sq. ft. / gpd</p>	<p style="text-align: center; font-size: x-small;">EFFLUENT/EJECTOR PUMP</p> <p><input checked="" type="checkbox"/> 1. Not Required</p> <p><input type="checkbox"/> 2. May Be Required</p> <p><input type="checkbox"/> 3. Required</p> <p style="font-size: x-small;">Specify only for engineered systems:</p> <p style="font-size: x-small;">DOSE: _____ gallons</p>	<p style="text-align: center; font-size: x-small;">ATTACH WATER METER DATA</p> <p style="text-align: center; font-size: x-small;">LATITUDE AND LONGITUDE</p> <p style="font-size: x-small;">at center of disposal area</p> <p style="font-size: x-small;">Lat. <u>N44</u> d <u>1</u> m <u>20.1</u> s</p> <p style="font-size: x-small;">Lon. <u>W70</u> d <u>15</u> m <u>54.5</u> s</p> <p style="font-size: x-small;">if g.p.s. state margin of error: <u>20</u></p>

## SITE EVALUATOR STATEMENT

I certify that on 9/24/2021 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

<p style="margin: 0;">Site Evaluator Signature</p>	<p style="margin: 0;"><u>387</u></p> <p style="margin: 0;">SE #</p>	<p style="margin: 0;"><u>09/25/21</u></p> <p style="margin: 0;">Date</p>
<p style="margin: 0;"><b>Stephen B. Marcotte</b></p> <p style="margin: 0;">Site Evaluator Name Printed</p>	<p style="margin: 0;"><u>(207) 939-2600</u></p> <p style="margin: 0;">Telephone Number</p>	<p style="margin: 0;"><u>stephen.marcotte@gmail.com</u></p> <p style="margin: 0;">Email Address</p>

Town, City, Plantation: **Auburn** Street, Road, Subdivision: **2 Dunlap St** Owner or Applicant Name: **Cindy Dan**



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

Observation Hole # TB-1     Test Pit     Boring

0 " Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0				
6				
12	Loam to Silt Loam Disturbed/Fill	Friable	Dark Brown to Olive Brown	
18				Common & Distinct
24				
30				
36	Stratified Sand and Silt	Friable	Olive / Gray	Free Water
42				
48				
Limit of Excavation at 42 inches				
Soil Profile	Classification	Slope	Limiting Factor	<input checked="" type="checkbox"/> Groundwater
<u>7/12</u>	<u>C</u>	<u>3</u>	<u>16"</u>	<input type="checkbox"/> Restrictive Layer
	Condition	Percent	Depth	<input type="checkbox"/> Bedrock

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

\_\_\_\_\_ " Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0				
6				
12				
18				
24				
30				
36				
42				
48				
Limit of Excavation at 42 inches				
Soil Profile	Classification	Slope	Limiting Factor	<input type="checkbox"/> Groundwater
_____	_____	_____	_____	<input type="checkbox"/> Restrictive Layer
	Condition	Percent	Depth	<input type="checkbox"/> Bedrock

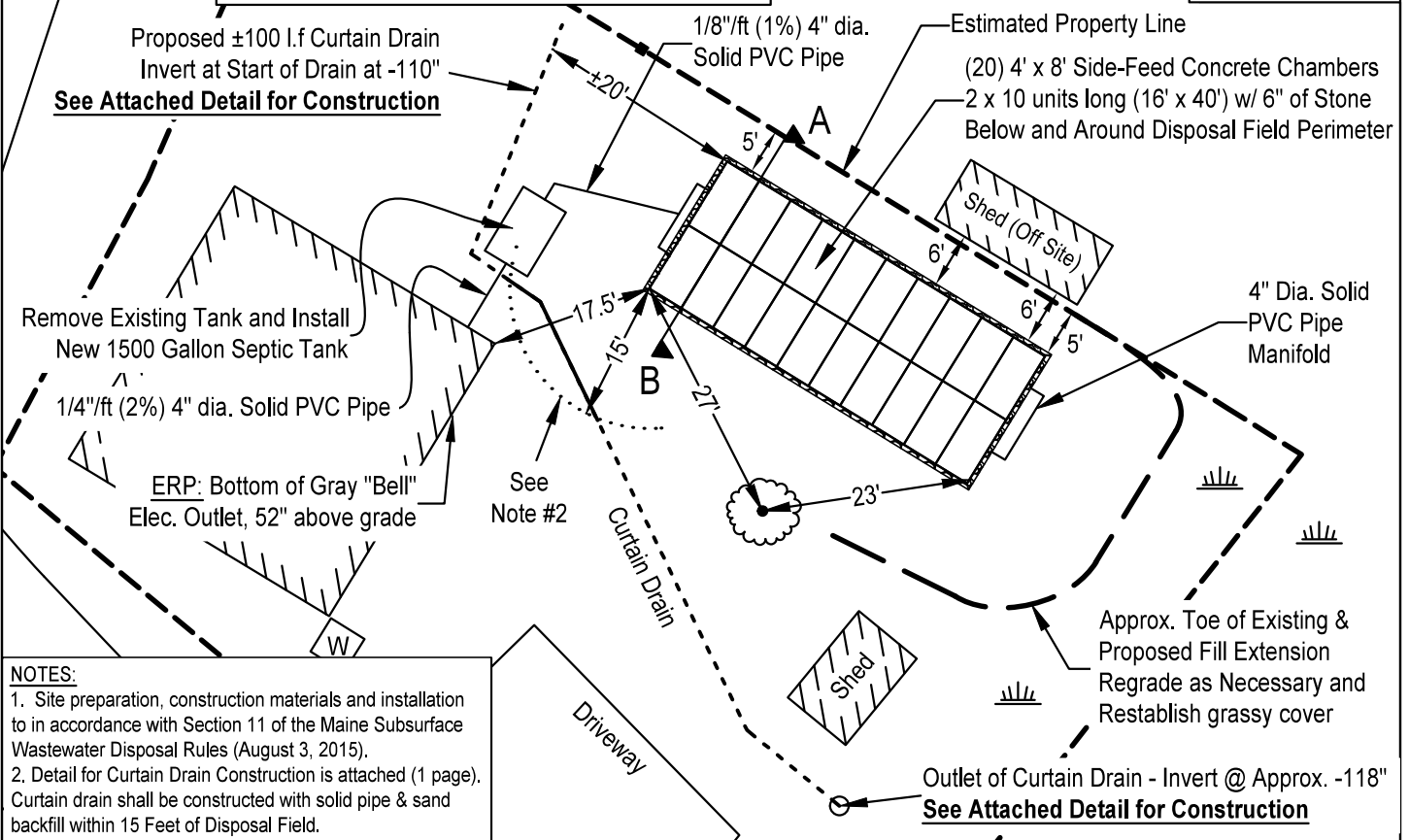
**SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION**

Maine Department of Human Services  
 Division of Health Engineering, Station 10  
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation <b>Auburn</b>	Street, Road, Subdivision <b>2 Dunlap St</b>	Owner or Applicant Name <b>Cindy Dan</b>
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**SUBSURFACE WASTEWATER DISPOSAL PLAN**

Scale: 1" = 20 ft



**NOTES:**

1. Site preparation, construction materials and installation to in accordance with Section 11 of the Maine Subsurface Wastewater Disposal Rules (August 3, 2015).
2. Detail for Curtain Drain Construction is attached (1 page). Curtain drain shall be constructed with solid pipe & sand backfill within 15 Feet of Disposal Field.

**BACKFILL REQUIREMENTS**

Depth of Backfill (upslope) Same As  
 Depth of Backfill (downslope) Existing

**CONSTRUCTION ELEVATIONS**

Finished Grade Elevation (at Row 1)	-53"
Top of Chamber (at Row 1)	-61"
Bottom of Chamber (at Row 1)	-72"
Bottom of Stone (at Row 1)	-78"

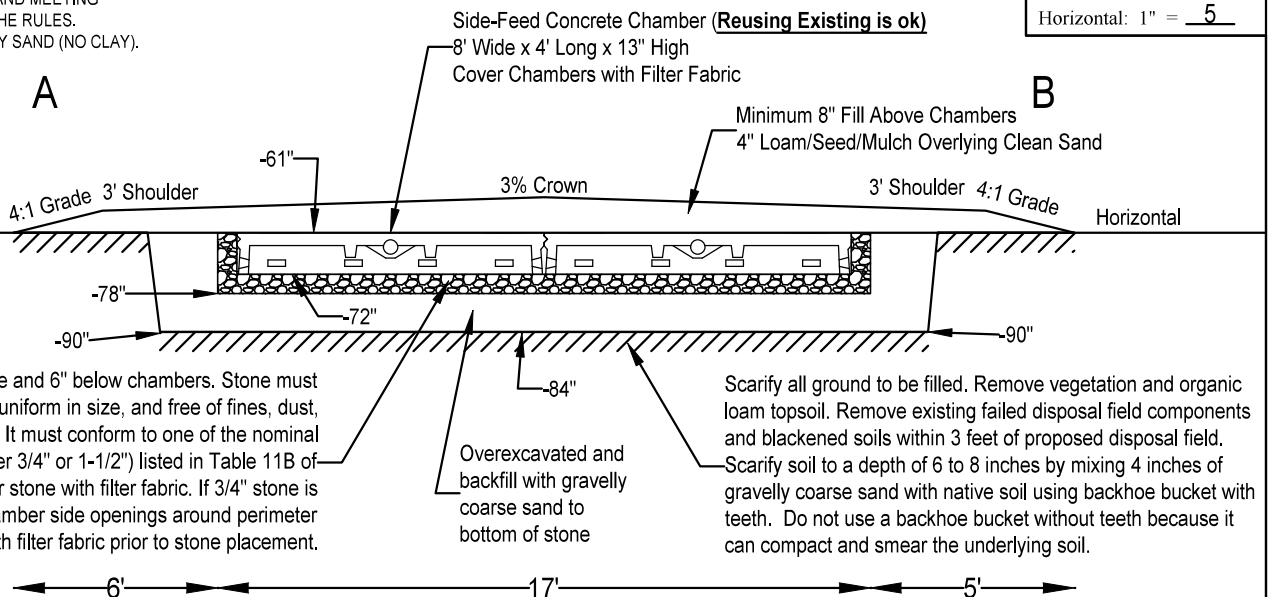
**ELEVATION REFERENCE POINT**

Location & Description: Bottom of gray "Bell" electrical outlet, 52" above grade (see above)  
 Reference Elevation: 0.0"

NOTE: BACKFILL MATERIAL PLACED BELOW OR WITHIN 3' OF THE CHAMBERS OR STONE BESIDE CHAMBERS MUST BE GRAVELLY COARSE SAND MEETING SECTION 11(E)(2) OF THE RULES. REMAINING FILL LOAMY SAND (NO CLAY).

**DISPOSAL FIELD CROSS SECTION**

Scales:  
 Vertical: 1" = 5  
 Horizontal: 1" = 5

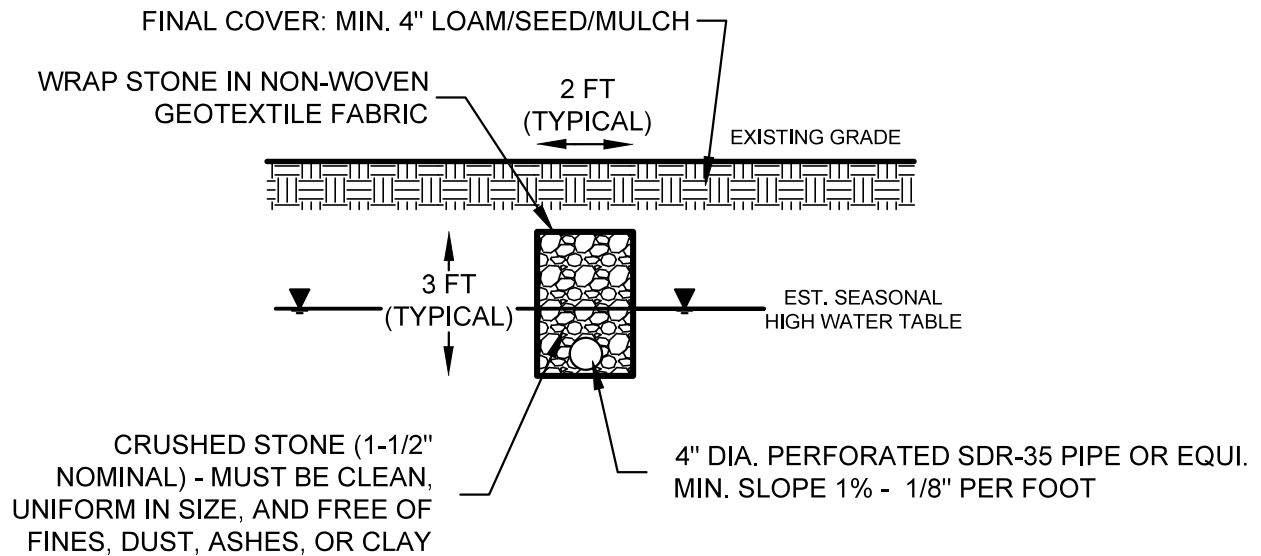


*[Signature]*  
 Site Evaluator Signature

387  
 SE #

09/25/21  
 Date

# CURTAIN DRAIN DETAIL



## GENERAL CONSTRUCTION NOTES

- SETBACKS:** TO PREVENT UNDER-DRAINING OF THE DISPOSAL FIELD, THE MINIMUM SETBACK DISTANCES BETWEEN THE CURTAIN DRAIN AND THE DISPOSAL FIELD SHALL BE MET:

(A) **SETBACK UPSLOPE:** MIN. 10 FT SETBACK UP-SLOPE FROM THE UP-SLOPE EDGE OF A DISPOSAL FIELD.

(B) **SETBACK CROSS-SLOPE:** MIN. 15 FT SETBACK FROM ENDS/SIDES OF A DISPOSAL FIELD.

(C) **DRAIN SECTIONS WITHIN SETBACKS:** SOLID SECTIONS OF 4" PIPE BEDDED IN SAND (AS OPPOSED TO PERFORATED PIPE AND STONE) MAY BE USED FOR AREAS ALONG THE CURTAIN DRAIN THAT DO NOT MEET THE MINIMUM SETBACKS.
- FREE-FLOWING OUTLETS:** FREE-FLOWING OUTLETS MUST BE PROVIDED DOWN-SLOPE OF THE CURTAIN DRAIN EXTENSIONS. OUTLETS MAY EMPTY INTO A DRAINAGE SWALE DISCHARGING TO A SURFACE WATER BODY, A GROUNDWATER RECHARGE BASIN, OR A GRAVEL BED. OUTLETS MUST BE DESIGNED, INSTALLED, LOCATED, AND MAINTAINED IN A MANNER THAT DOES NOT CAUSE SOIL EROSION, SURFACE FLOODING, OR DAMAGE TO ADJACENT PROPERTIES, DOES NOT CREATE A PUBLIC NUISANCE, AND DOES NOT VIOLATE ANY APPLICABLE FEDERAL, STATE, OR LOCAL LAWS OR REGULATIONS
- RODENT CONTROL:** ADEQUATE MEASURES MUST BE TAKEN TO PROTECT EACH OUTLET FROM THE ENTRY OF RODENTS OR OTHER SMALL ANIMALS.



Department of Health and Human Services  
Maine Center for Disease Control and Prevention  
286 Water Street  
# 11 State House Station  
Augusta, Maine 04333-0011  
Tel: (207) 287-5672  
Fax: (207) 287-4172; TTY: 1-800-606-0215

## SUBSURFACE WASTEWATER DISPOSAL SYSTEM VARIANCE REQUEST

This form must accompany an application (HHE-200 Form) for any subsurface wastewater disposal system which requires a variance to provisions of the Subsurface Wastewater Disposal Rules. The Local Plumbing Inspector must not issue a permit for the installation of a subsurface wastewater disposal system requiring a variance from the Department of Health and Human Services until approval has been received from the Department.

<b>GENERAL INFORMATION</b>	Town of <u>Auburn</u>
Property Owner's Name: <u>Cindy Dan</u>	Tel. No.: <u>207-576-1615</u>
System's Location: _____	
Property Owner's Address: _____	Zip Code _____
e-mail address: <u>cindysdan@yahoo.com</u>	

The subsurface wastewater disposal system design for the subject property requires a  replacement system variance  first time system variance to the Subsurface Wastewater Disposal Rules. This variance requires  local approval  local and state approval.

<b>SPECIFIC VARIANCE REQUESTED</b> (To be filled in by Site Evaluator. Use additional sheets if needed.)	<b>SECTION OF RULE</b>
<p>Four variances to Table 8A: (1) Reduce setback from disposal field to property line (10' down to +/- 6'); (2) Reduce setback from septic tank to well (50' down to 32'); (3) Reduced setback from disposal field to 3 dug wells (100' down to min. 40'); (4) Reduced setback from shed on ground (offsite) to disposal field (15' down to 6').</p>	
<b>SITE EVALUATOR</b>	
<p>When a property is found to be unsuitable for subsurface wastewater disposal by a licensed Site Evaluator, the Evaluator shall so inform the property owner. If the property owner, after exploring all other alternatives, wishes to request a variance to the Rules, and the Evaluator in his professional opinion feels the variance request is justified and the site limitations can be overcome, he shall document the soil and site conditions on the Application. The Evaluator shall list the specific variances necessary plus describe below the proposed system design and function. The Evaluator shall further describe how the specific site limitations are to be overcome, and provide any other support documentation as required prior to consideration by the Department. Attach a separate sheet if necessary.</p> <p>The system is proposed in the same footprint and elevation as the existing disposal field. A curtain drain is proposed hydraulically upgradient and cross gradient of the disposal area to lower the water table under the disposal field and to direct shallow groundwater flow away from the dug well.</p>	
<p>I, <u>Stephen B. Marcotte</u>, S.E., certify that a variance to the Rules is necessary since a system cannot be installed which will completely satisfy all the Rule requirements. In my judgment, the proposed system design on the attached Application is the best alternative available; enhances the potential of the site for subsurface wastewater disposal; and that the system should function properly.</p>	
<p>_____ <i>Steve Marcotte</i> _____</p>	<p><u>9/25/2021</u> DATE</p>

<b>PROPERTY OWNER</b>	
<p>I, _____, am the <input type="checkbox"/> owner <input type="checkbox"/> agent for the owner of the subject property. I understand that the installation on the Application is not in total compliance with 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.</p>	
<p>_____</p> <p><input type="checkbox"/> SIGNATURE OF OWNER <input type="checkbox"/> AGENT FOR THE OWNER</p>	<p>_____</p> <p>DATE</p>

**LOCAL PLUMBING INSPECTOR - Approval at local level**

The local plumbing inspector shall review all variance requests prior to rendering a decision.

I, \_\_\_\_\_, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (  does  does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (  do  do not) approve the requested variance. I (  will  will not) issue a permit for the system's installation as proposed by the application.

\_\_\_\_\_ LPI Signature

\_\_\_\_\_ Date

**LOCAL PLUMBING INSPECTOR - Referral to the Department**

The local plumbing inspector shall review all variance requests prior to forwarding to the Division of Environmental Health.

I, \_\_\_\_\_, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (  does  does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (  do  do not) recommend the issuance of a permit for the system's installation as proposed by the application.

\_\_\_\_\_ LPI Signature

\_\_\_\_\_ 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

- Notes:
1. Variances for soil conditions may be approved at the local level as long as the total point assessment is at least the minimum allowed. (See Section 7.B.4 of the Subsurface Wastewater Disposal Rules for Municipal Review.)
  2. Variances for other than soil conditions or soil conditions beyond the limit of the LPI's authority are to be submitted to the Department for review. (See Section 7.B.3 for Department Review.) The LPI's signature is required on these variance requests prior to sending them to the Department.

**SOIL, SITE AND ENGINEERING FACTORS FOR FIRST TIME SYSTEM VARIANCE ASSESSMENT WITH LIMITING SOIL DRAINAGE CONDITIONS (SEE TABLES 7C THROUGH 7M).**

	CHARACTERISTIC	POINT ASSESSMENT
Soil Profile		
Depth to Groundwater/Restrictive Layer		
Terrain		
Size of Property		
Waterbody Setback		
Water Supply		
Type of Development		
Disposal Area Adjustment		
Vertical Separation Distance		
Additional Treatment		
<b>TOTAL POINT ASSESSMENT:</b>		

Minimum Points (Check One):  Outside Shoreland Zone-50  Inside Shoreland Zone-65  Subdivision-65