SUBSURFACE WASTEWATER

BRENT LAWSON
STATE SITE EVALUATOR/STATE PLUMBING INSPECTOR
ELI PELLEGRINO
ENVIRONMENTAL ANALYST

2/4/2026

Maine Center for Disease Control and Prevention

WHAT WE WILL BE COVERING

- INSPECTIONS OF SEPTIC SYSTEMS
  - First inspection
  - Forms
  - 2nd inspection
  - Septic tank inspection

MALFUNCTIONS

How septic systems work

some reasons of why they malfunction

INSPECTIONS

HERES A FEW ITEMS THAT SHOULD BE NOTED BEFORE WE BEGIN

INSPECTIONS

Notification required: The LPI must be notified at least 24 hours before the system is ready to be inspected.

Preparation for inspection:
When a system is ready for inspection, the installer must make such arrangements as will enable the LPI to inspect all parts of the system. The installer must have present the proper apparatus and equipment for conducting the inspection and shall furnish such assistance as may be necessary in making a proper inspection

Covering of work:
No part of a system may be backfilled until it has been inspected and approved. If any part is covered before being inspected and approved, it must be uncovered at the discretion of LPI and at the expense and risk of the owner.

INSPECTIONS

Defects in materials and workmanship:

If inspection discloses defective material, design, siting, or poor construction that does not conform to the requirements of these Rules, the nonconforming parts must be removed, replaced, and re-inspected.

INSPECTIONS

INTERPRETATION HAS ALWAYS BEEN AN ISSUE

CALL OR EMAIL THE DEPARTMENT WITH ANY QUESTIONS ABOUT THE RULES.

BRENT.LAWSON@MAINE.GOV
592-7376

INSPECTIONS

The LPI must make **2** inspections as follows:

FIRST INSPECTION

After site preparation:

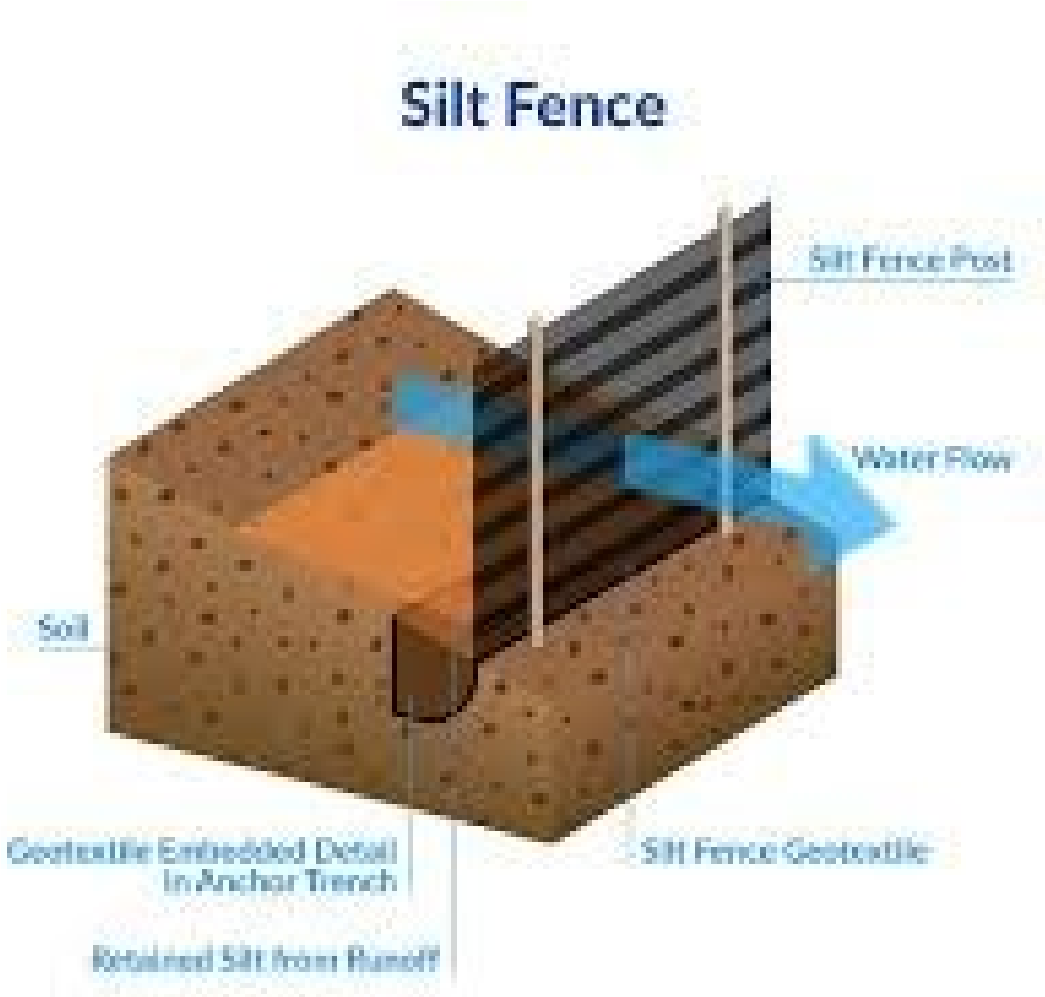
An inspection must be made after site preparation to ascertain that the vegetation has been cut and removed in the disposal field area, the area under the disposal field and backfill extensions has been roughened, a transitional horizon has been established, and the erosion and sedimentation control measures are in place.

INSPECTIONS

THE INSPECTIONS ARE DONE ACCORDING TO THE SUBSURFACE WASTEWATER RULES AND THE PERMITTED DESIGN

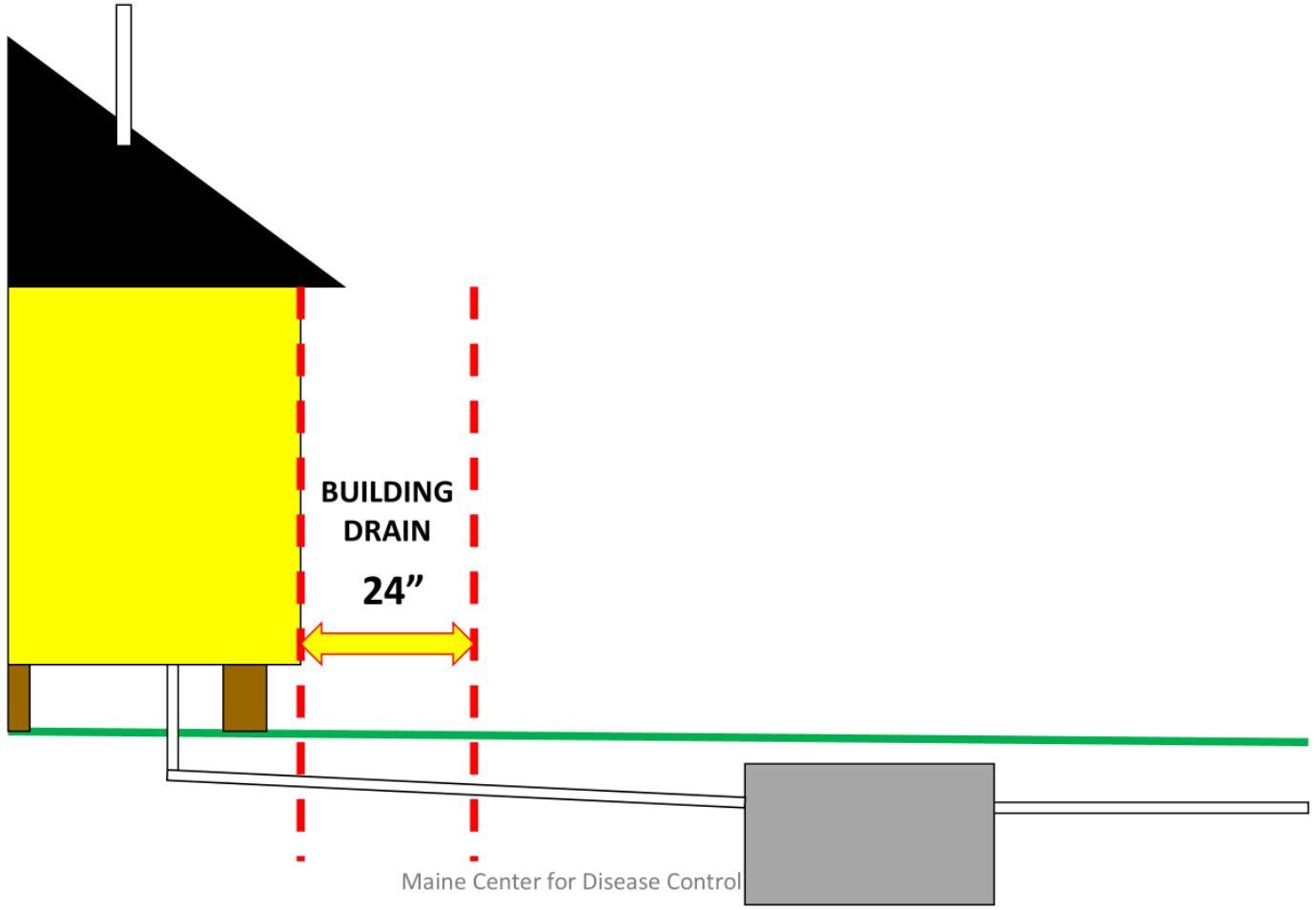
IF THERE IS ANY PART OF THE INSTALLATION THAT IS NOT CONSISTANT WITH THE DESIGN, EITHER THE INSTALLER MUST CORRECT THE INSTALLATION OR THE SE MUST BE NOTIFIED TO REVISE THE DESIGN

EROSION CONTROL MEASURES



THE DEP WEBSITE HAS NUMEROUS EROSION CONTROL MEASURES AND THE CORRECT WAY FOR INSTALLATION

FIRST INSPECTION



FIRST INSPECTION

VERY FIRST THING YOU NEED TO DO IS?

MAKE SURE ITS PERMITTED

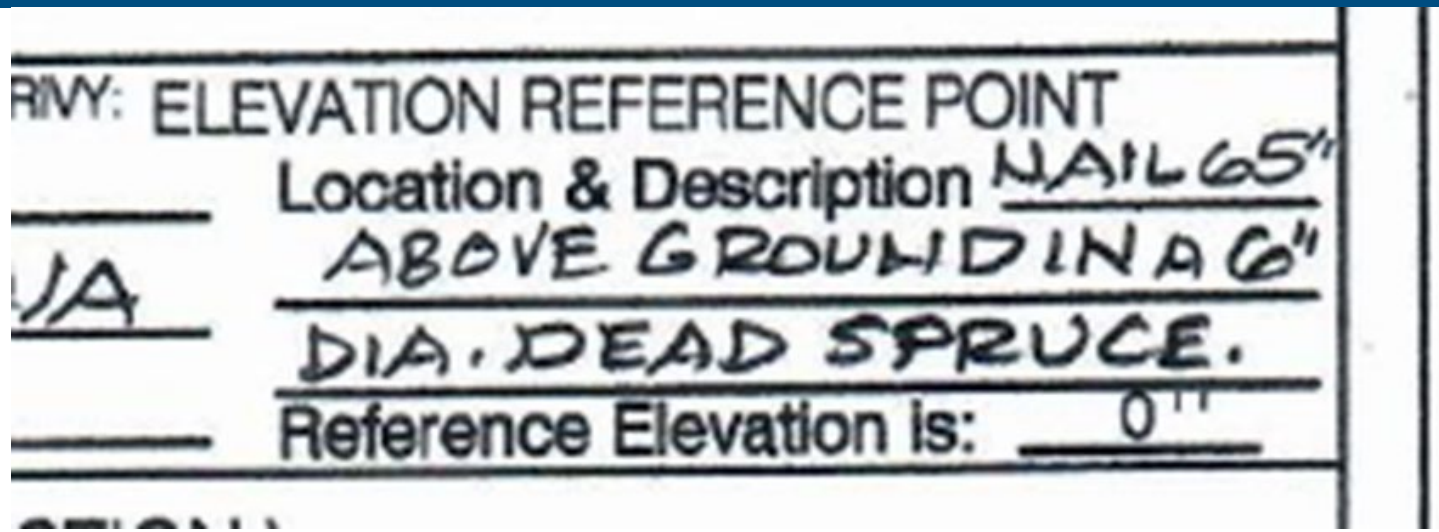
ELEVATION REFERENCE POINT

MAKE SURE ITS IN THE CORRECT PLACE

ERP

Located in the middle of the third page on the right-hand side

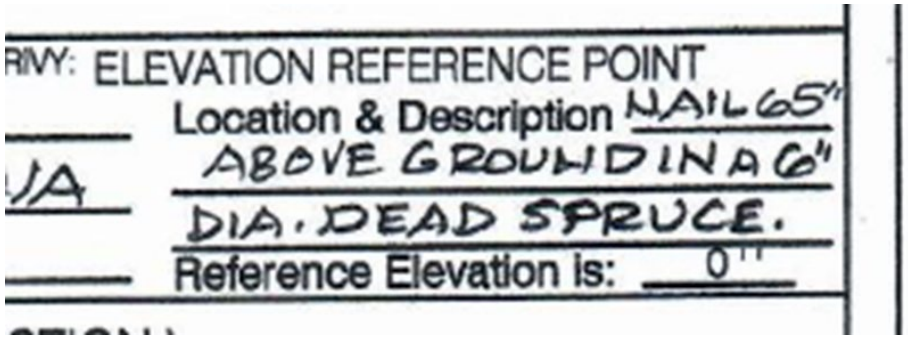
FIRST INSPECTION


RIVY: ELEVATION REFERENCE POINT
Location & Description NAIL 6.5" ABOVE GROUND IN A 6" DIA. DEAD SPRUCE.
Reference Elevation is: 0"

NEW FORMS PAGE 4

Construction Elevations from Elevation Reference Point		Elevation Reference Point	
Finished Grade Elevation	"	Location & Description:	
Top of Distribution Pipe or Proprietary Device	"		
Bottom of Disposal Field	"	Reference Elevation is: 0.0 " or	"

FIRST INSPECTION



THE ERP IS ALWAYS SET AT 0”

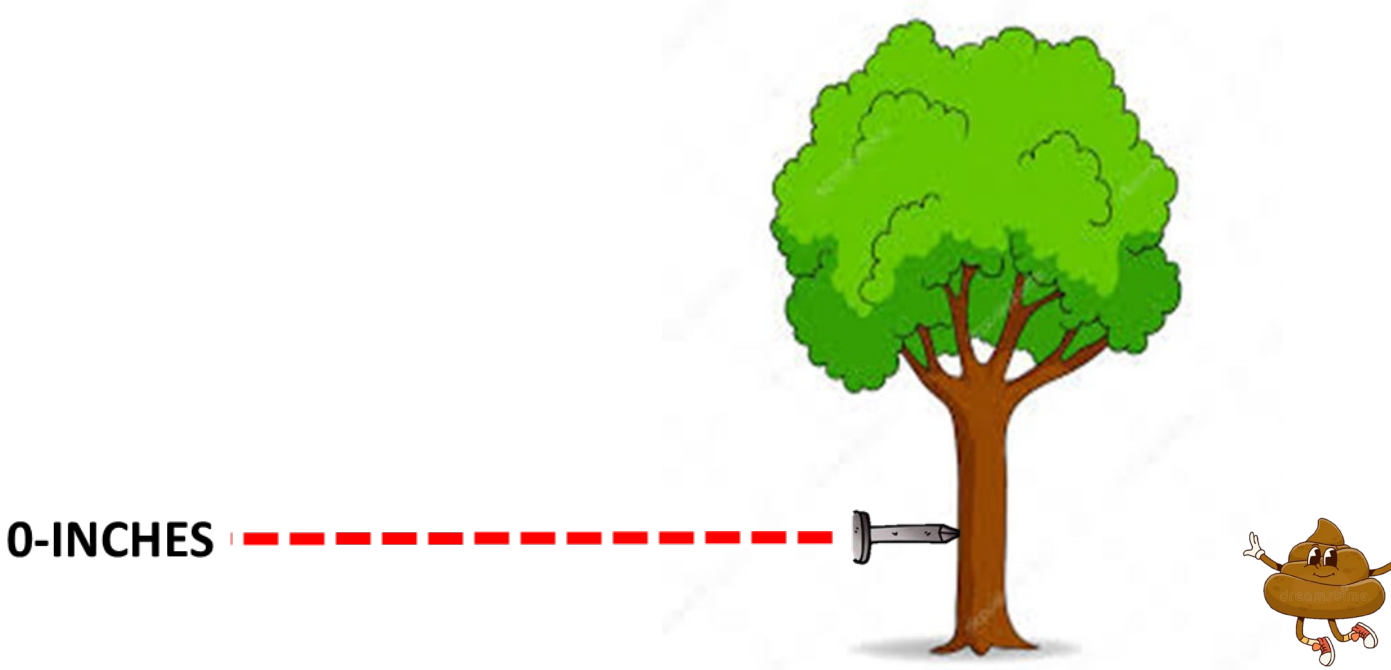
IF THIS ISNT THE CASE WITH YOUR SITE EVALUATION, TALK TO THE SE AND HAVE THEM CHANGE IT AND REVISE THE CALCULATIONS

ANY NUMBERS ABOVE THE ERP ARE POSITIVE (+) NUMBER’S

YOU WILL VERY REARELY SEE (+) NUMBERS IF AT ALL BECAUSE ALL DISPOSAL SYSTEMS SHOULD BE BELOW THE NAIL (ERP)
IF NOT, CALL ME

FIRST INSPECTION

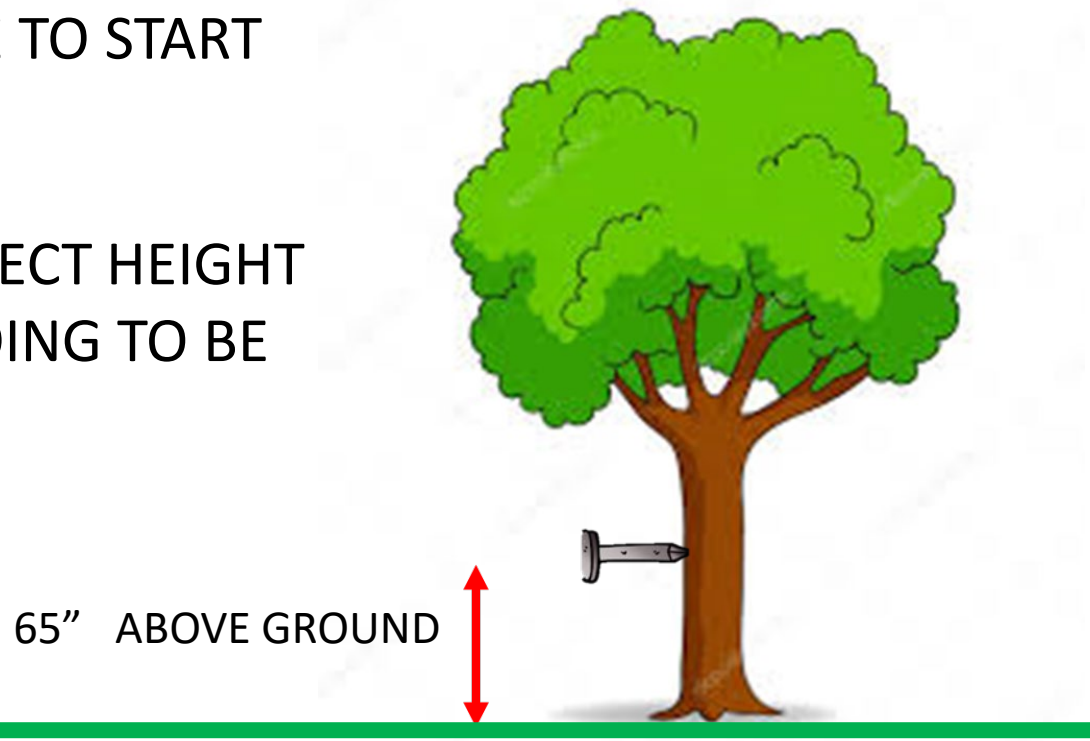
ALL NUMBERS BELOW ARE NEGATIVE (-) NUMBERS



FIRST INSPECTION

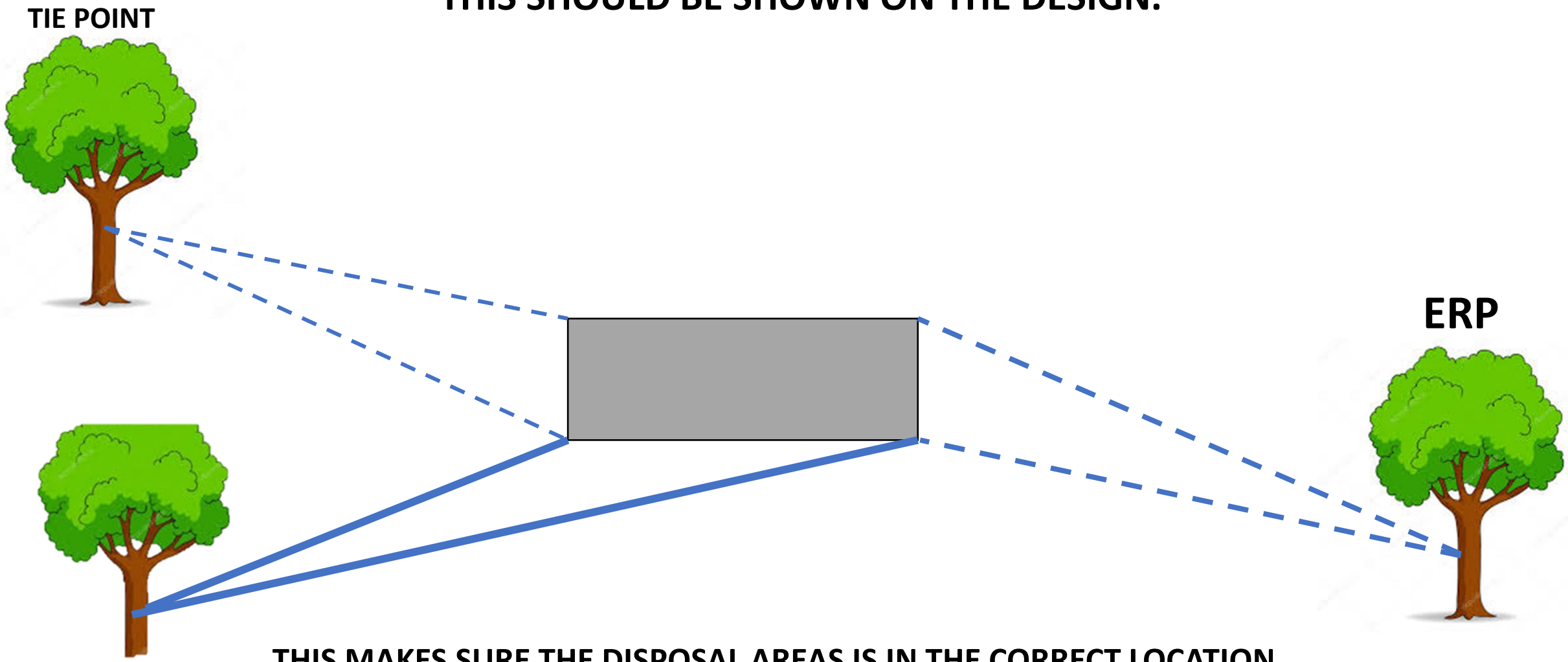
ALL TIE POINTS AND ELEVATIONS OF THE DISPOSAL FIELD HAVE TO START AT THE ERP.

IF THIS IS NOT AT THE CORRECT HEIGHT THE WHOLE SYSTEM IS GOING TO BE INCORRECT



ALONG WITH THE ERP TIE POINTS TO THE DISPOSAL FIELD, THERE MAY BE ANOTHER TIE POINT THAT THE DISPOSAL FIELD WOULD HAVE OTHER MEASUREMENTS FROM.

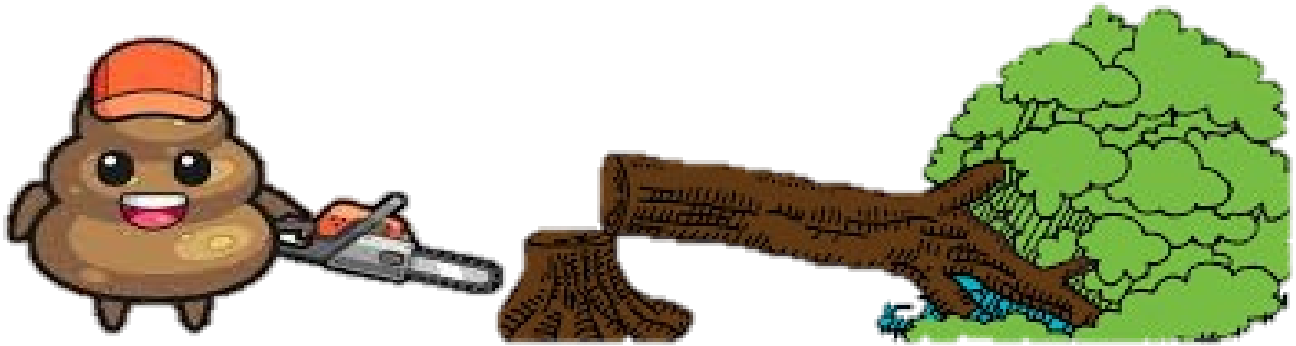
THIS SHOULD BE SHOWN ON THE DESIGN.



THIS MAKES SURE THE DISPOSAL AREAS IS IN THE CORRECT LOCATION

FIRST INSPECTION

THE ONLY PERSON THAT CAN RE-ESTANBLISH A ERP IS THE SITE EVALUATOR THAT DID THE DESIGN



EVEN IF ITS MOVED FROM ONE PLACE TO ANOTHER. IF ITS NOT IN THE SAME PLACE WHERE THE DESIGN SAYS IT IS, THE SE HAS TO COME BACK

FIRST INSPECTION

Grubbing: The area under the disposal area must have the organic soil horizon removed, including but not limited to all stumps and roots.

Disposal area means the **combination of the disposal field, shoulders and fill extensions.**

Transitional horizon: On sites where the backfill material is coarser than the original soil, a minimum of four inches of backfill material must be mixed into the original soil to form a transitional horizon beneath the disposal area.

Grubbing and scarification

FILL EXTENSIONS ALSO MUST BE SCARIFIED

Maine Center for Disease Control and Prevention

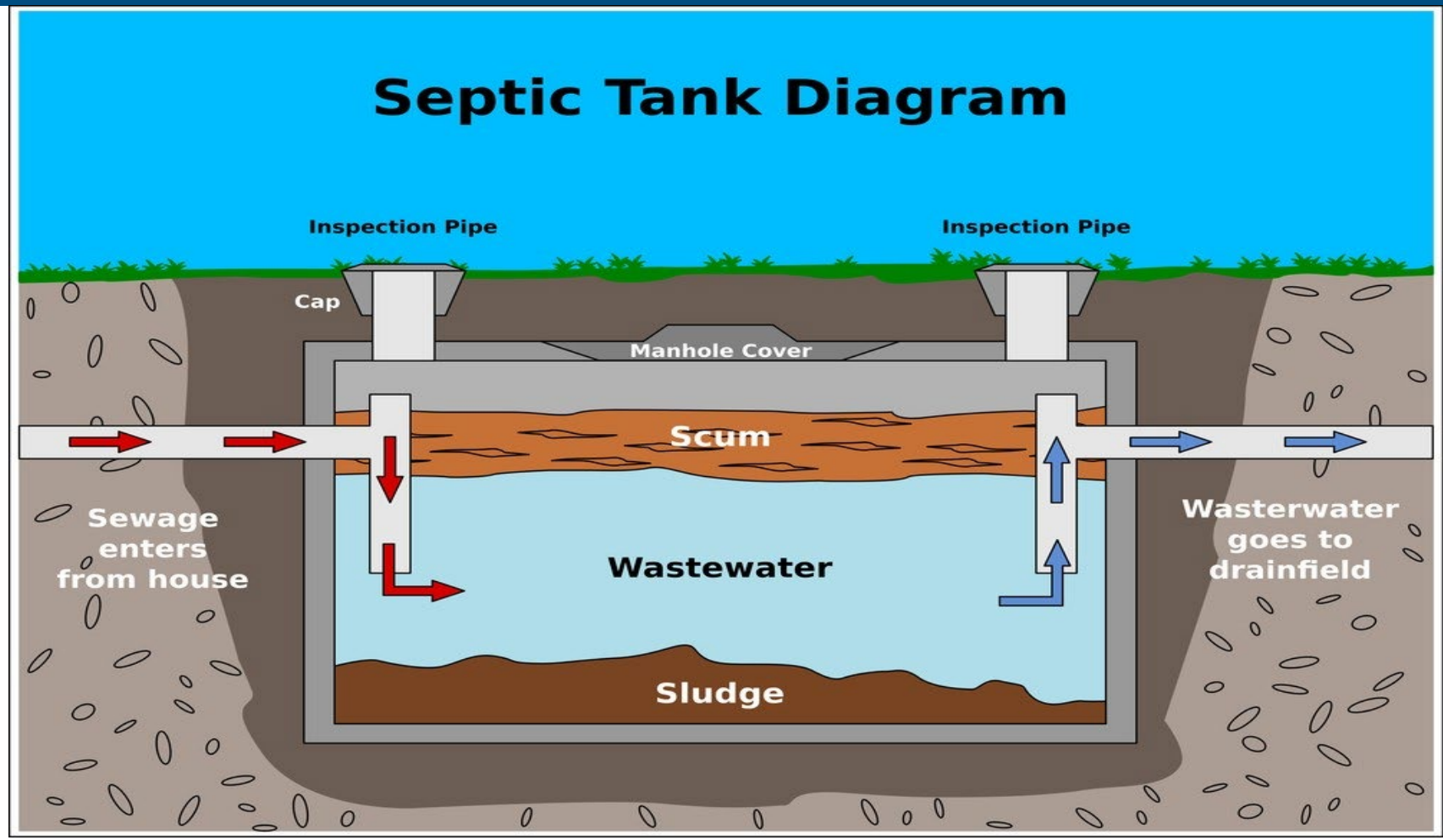
SCARIFICATION

TRANSITIONAL HORIZON

THIS IS CONSIDERED THE BOTTOM OF THE BED ELEVATION

SEPTIC TANK

SEPTIC TANKS MAY BE
PART
OF THE FIRST INSPECTION



SEPTIC TANKS

SUBSURFACE WASTEWATER RULES
PAGE 66

TABLE 7A
SEPTIC TANK CAPACITY
FOR DWELLING UNITS

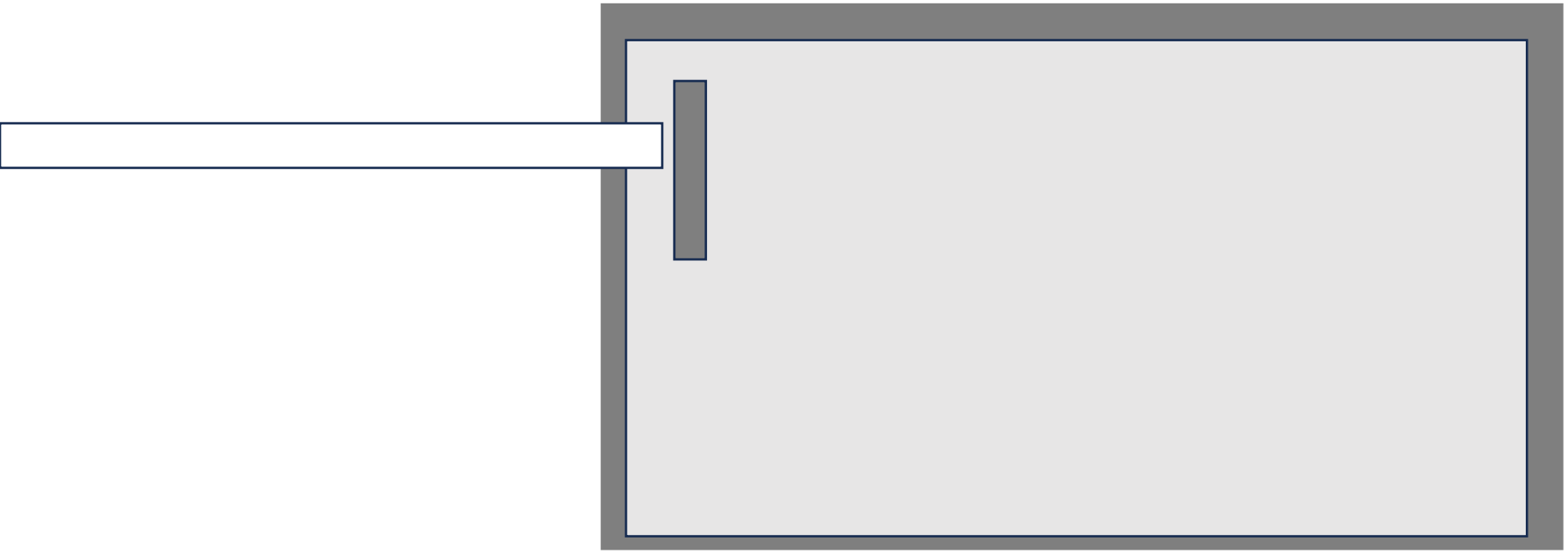
Number of bedrooms per Unit	Minimum septic tank liquid capacity per Unit
1 Bedroom	750 gallons
2 Bedrooms	750 gallons
3 Bedrooms	1,000 gallons
4 Bedrooms	1,000 gallons
5 Bedrooms	1,250 gallons or
For each additional	250 gallons per bedroom

SEPTIC TANKS

Inlet connections:

The invert elevation of the septic tank inlet must be at least 2 inches higher than the invert elevation of the septic tank outlet or the outlet of the first compartment. The inverts of the inlets of subsequent compartments must be at least 1 inch above their outlets. **When a baffle is used, the inlet pipe must be flush with the inside wall of the tank to prevent a buildup of solids between the inlet and the baffle.**

SEPTIC TANKS



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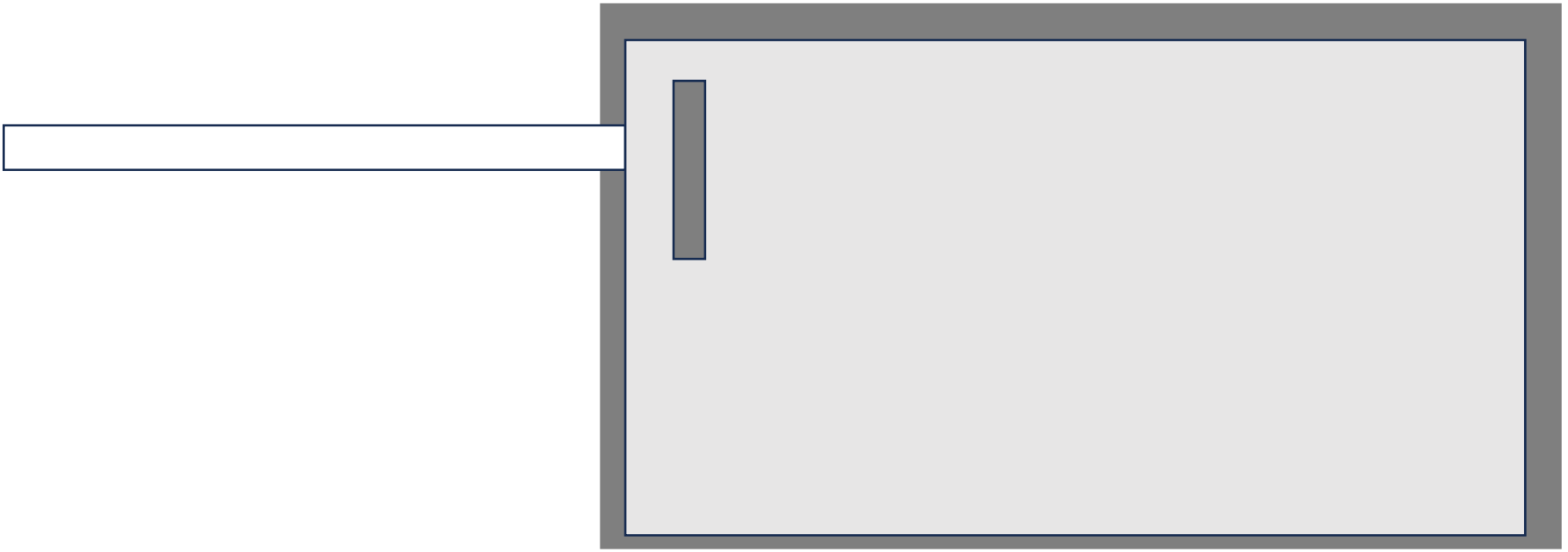
SEPTIC TANKS



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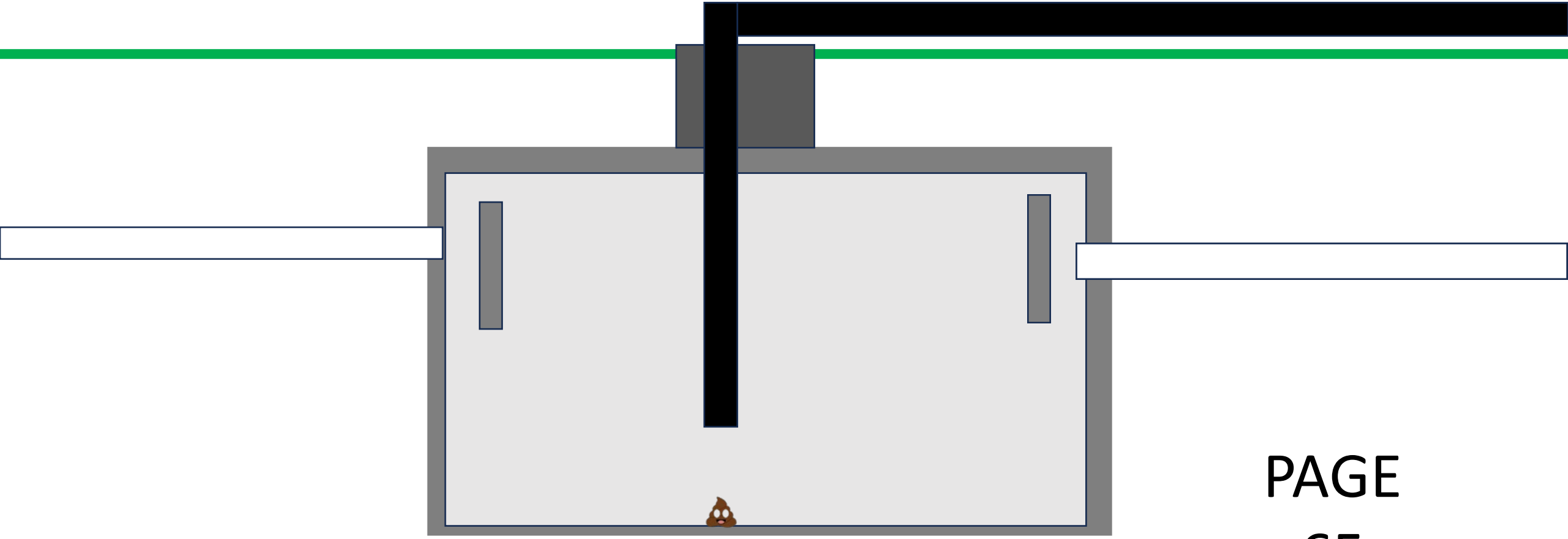
SEPTIC TANKS

Access openings:

Access openings for all septic tanks are required to have **a minimum of one watertight riser to finish grade in order to simplify location and maintenance**. **The riser must be located at the appropriate opening to facilitate pumping**. The riser opening must be at least 18 inches in diameter over the tank cover. **The pump station riser is required to extend to finished grade** and must be sized to accommodate removal and installation of any pump(s) within the tank. Outlet baffles that utilize an effluent filter must have a riser of at least 18 inches in diameter extended to finish grade. Other risers may terminate to within 6 inches of finished grade.

SEPTIC TANKS



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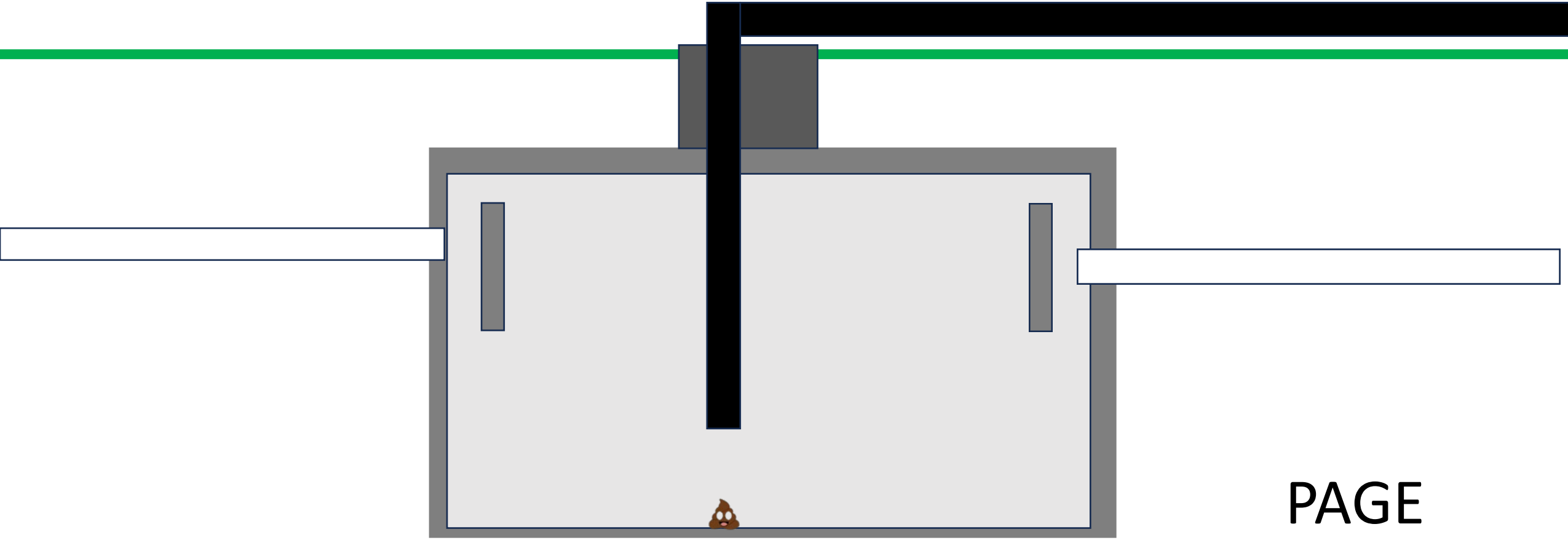
SEPTIC TANKS



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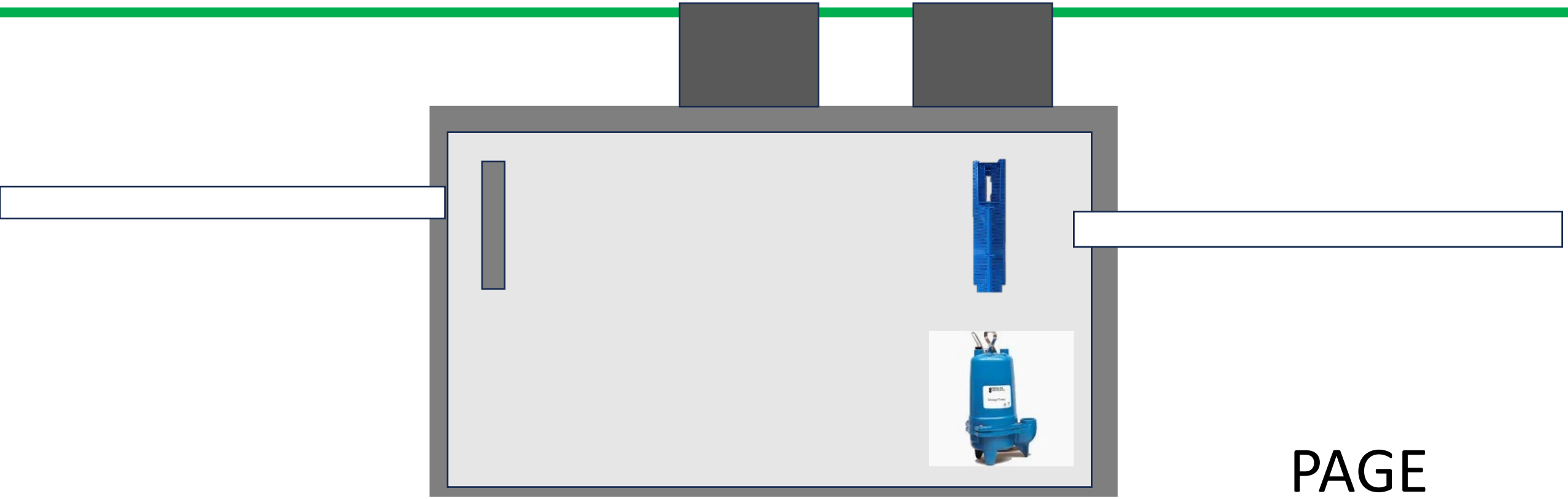
SEPTIC TANKS



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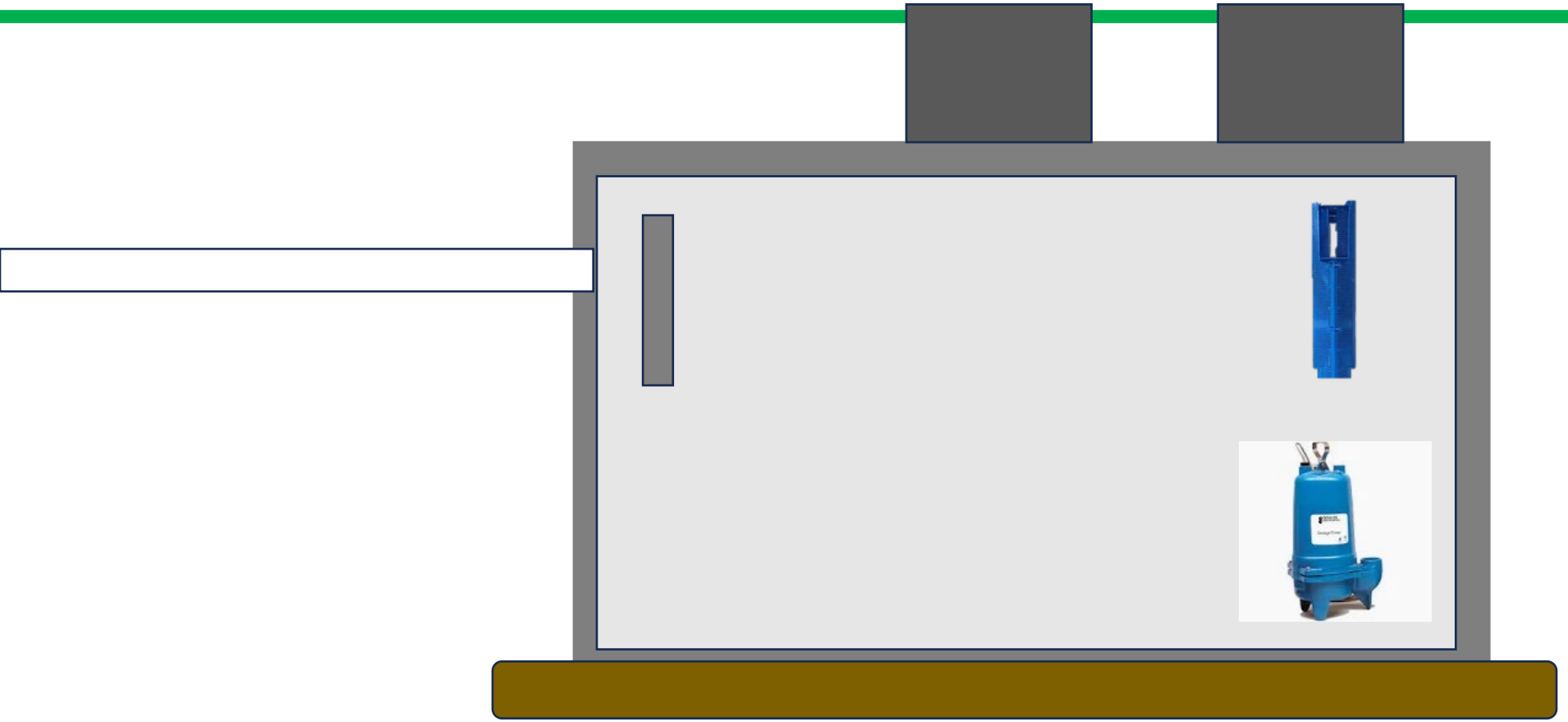
Bedding:

All tanks must be bedded on a 4-inch minimum layer of clean sand, gravel, or stone.
The bedding material must extend at least 4 inches beyond the base of the tank.

SEPTIC TANKS



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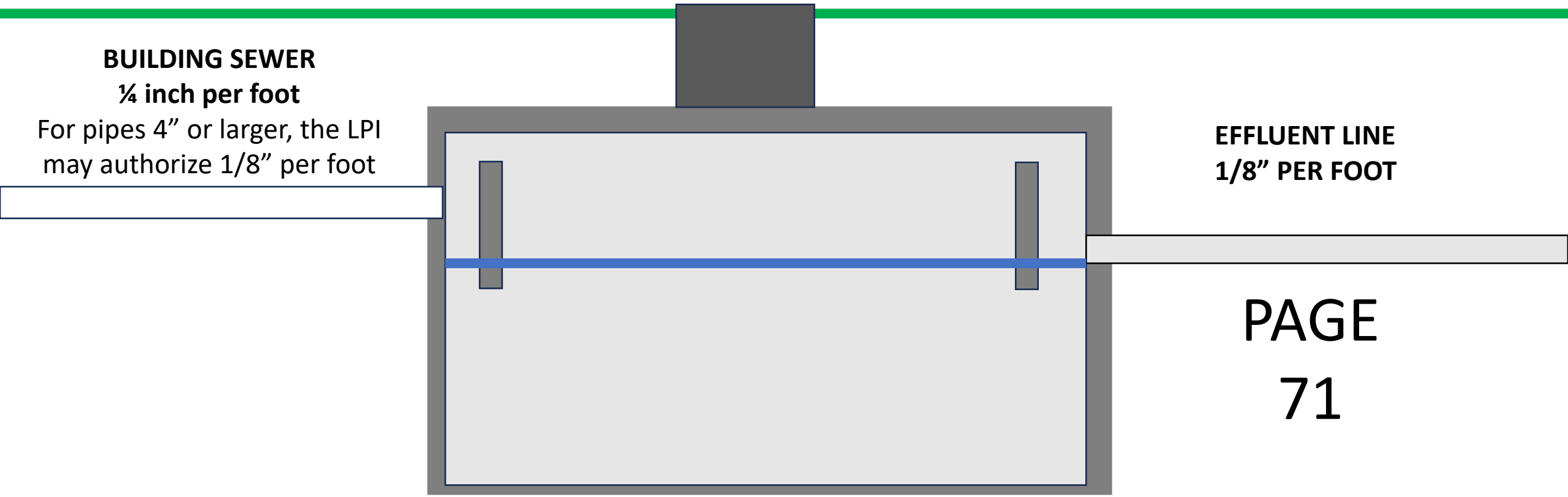
SEPTIC TANKS

BUILDING SEWER
¼ inch per foot
For pipes 4” or larger, the LPI may authorize 1/8” per foot



EFFLUENT LINE
1/8” PER FOOT

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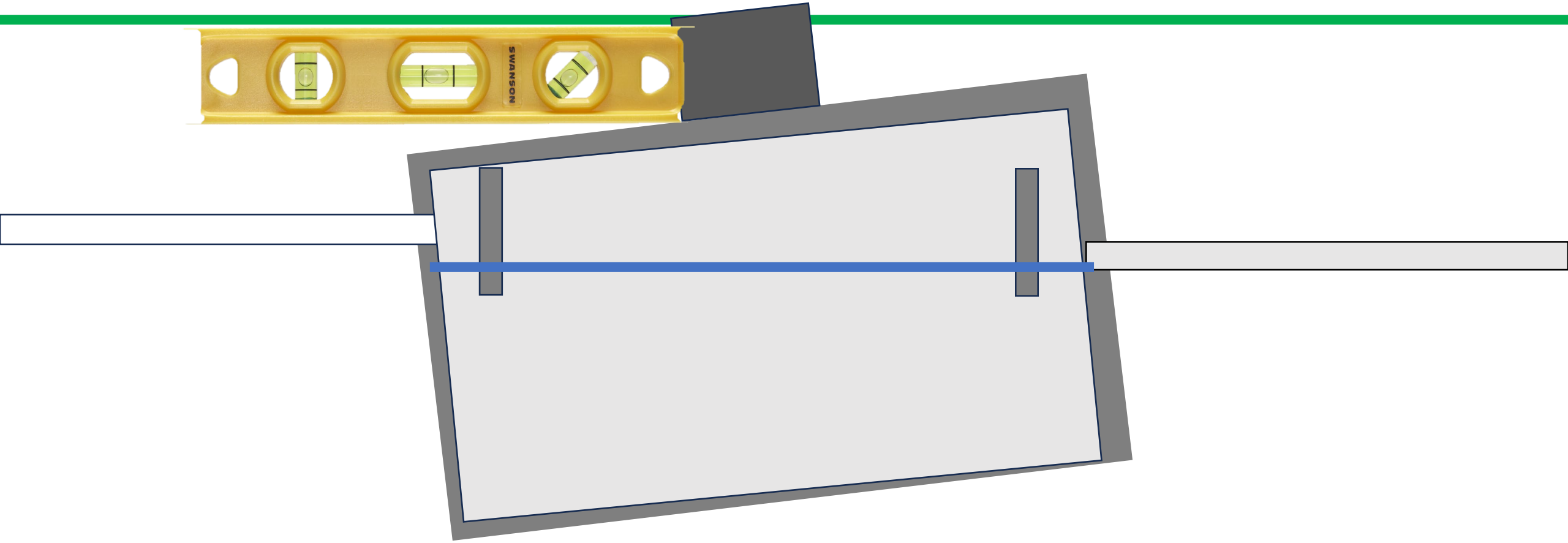
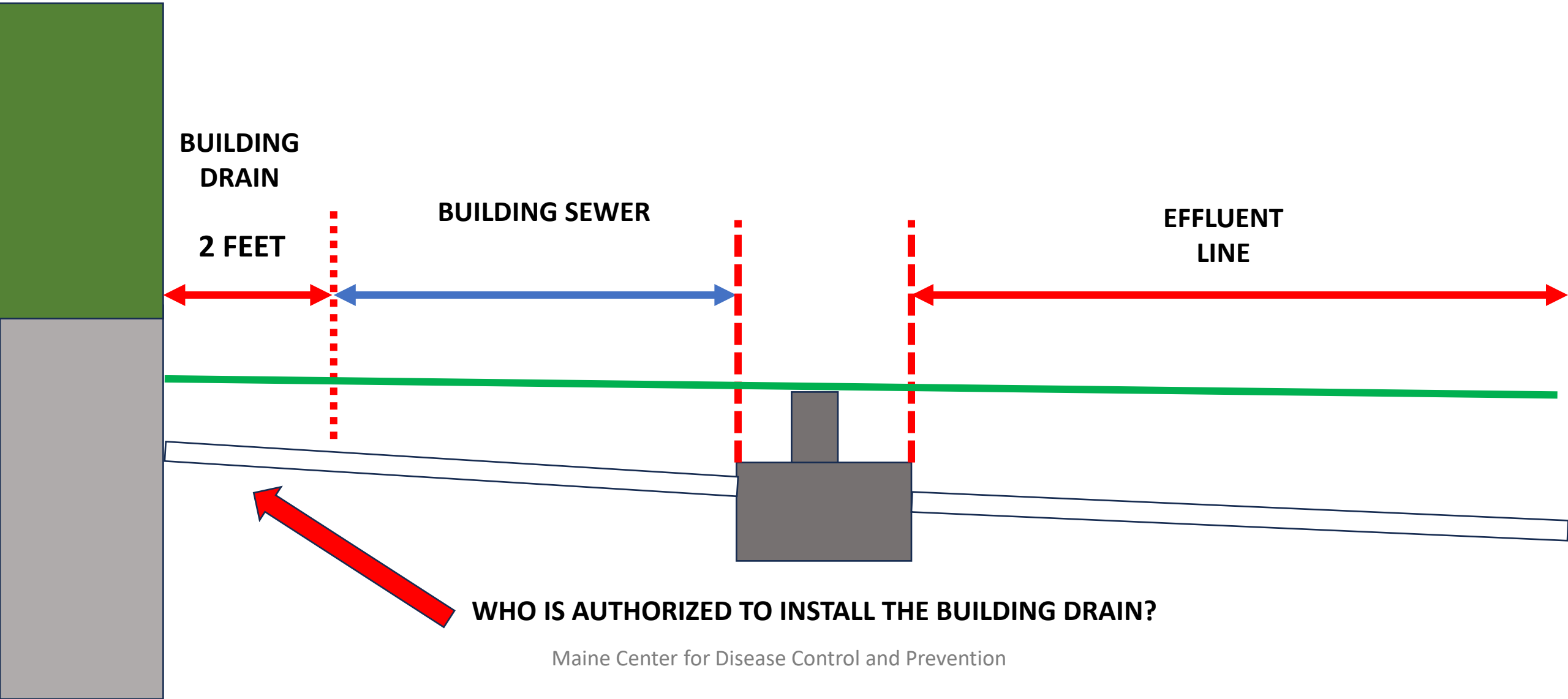
Inlet connections: The invert elevation of the septic tank inlet must be at least 2 inches higher than the invert elevation of the septic tank outlet or the outlet of the first compartment.

SEPTIC TANKS



SEPTIC TANKS



SEPTIC TANKS

Anti-flotation:

The site evaluator must include in the design provisions to prevent the tanks from floating, if empty.

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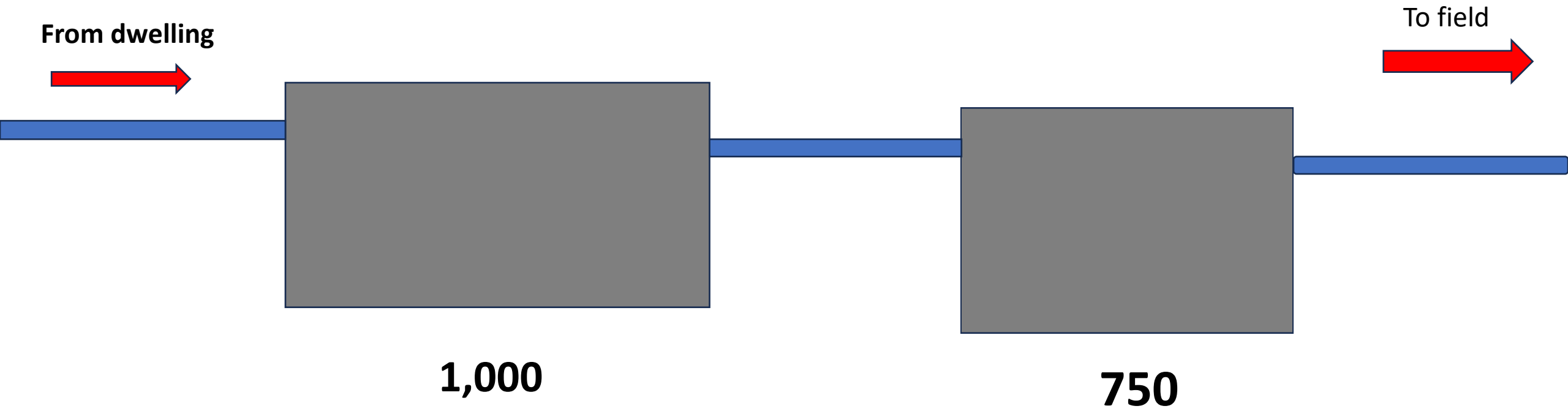
SEPTIC TANKS

Multiple septic tanks:

2 or more septic tanks may be connected in series to obtain the minimum required liquid capacity. When different size septic tanks are used, the greater capacity must be first in the series.



INSPECTIONS

Abandoned septic tanks:

The property owner or property owner's agent is responsible for seeing to it that the contents of all abandoned septic tanks are pumped and disposed of properly.

The top or entire septic tank must be removed and the remaining portion of the septic tank or excavation must be filled **immediately.**

SEPTIC TANKS

YOUR FIRST INSPECTION IS NOW CONCLUDED

State Organization

Subsurface Wastewater Unit

Drinking Water Program

Division of Environmental & Community Health

Maine Center for Disease Control and Prevention
An Office of the Department of Health and Human Services

Department of Health and Human Services

Drinking Water Program

- Data Management & Program Support
- Compliance Assurance
- Data Management
- Rule Administration
- Field Services
- Laboratory Accreditation/ Certification
- Subsurface Wastewater
- Water Resources & Resilience

Subsurface Wastewater Unit

Alex Pugh,
Senior Environmental Hydrogeologist

Section manager of SSWW and WRRT
- Engineered System Review
- Minimum Lot Size Review

Brent Lawson,
State Site Evaluator

- Site visits
- Variance requests

Eli Pellegrino
Environmental Analyst

- SSWW Projects/ Communications
- Permit Processing/ Permit Retrieval

Barrett Cosgrove
Environmental Health Specialist

- Permit Processing/ Permit Retrieval
- Cemeteries & Crematoria

April Bledsoe
Private Well Coordinator

- Private Well Questions
- Installer & Inspector Certification

FORMS

HHE-200 & HHE-204 Forms Now Available!

Services
File a Complaint
Business Services
Maine Public Health Laboratory
Workplace Health & Safety

HHE-200 & HHE-204 Updates

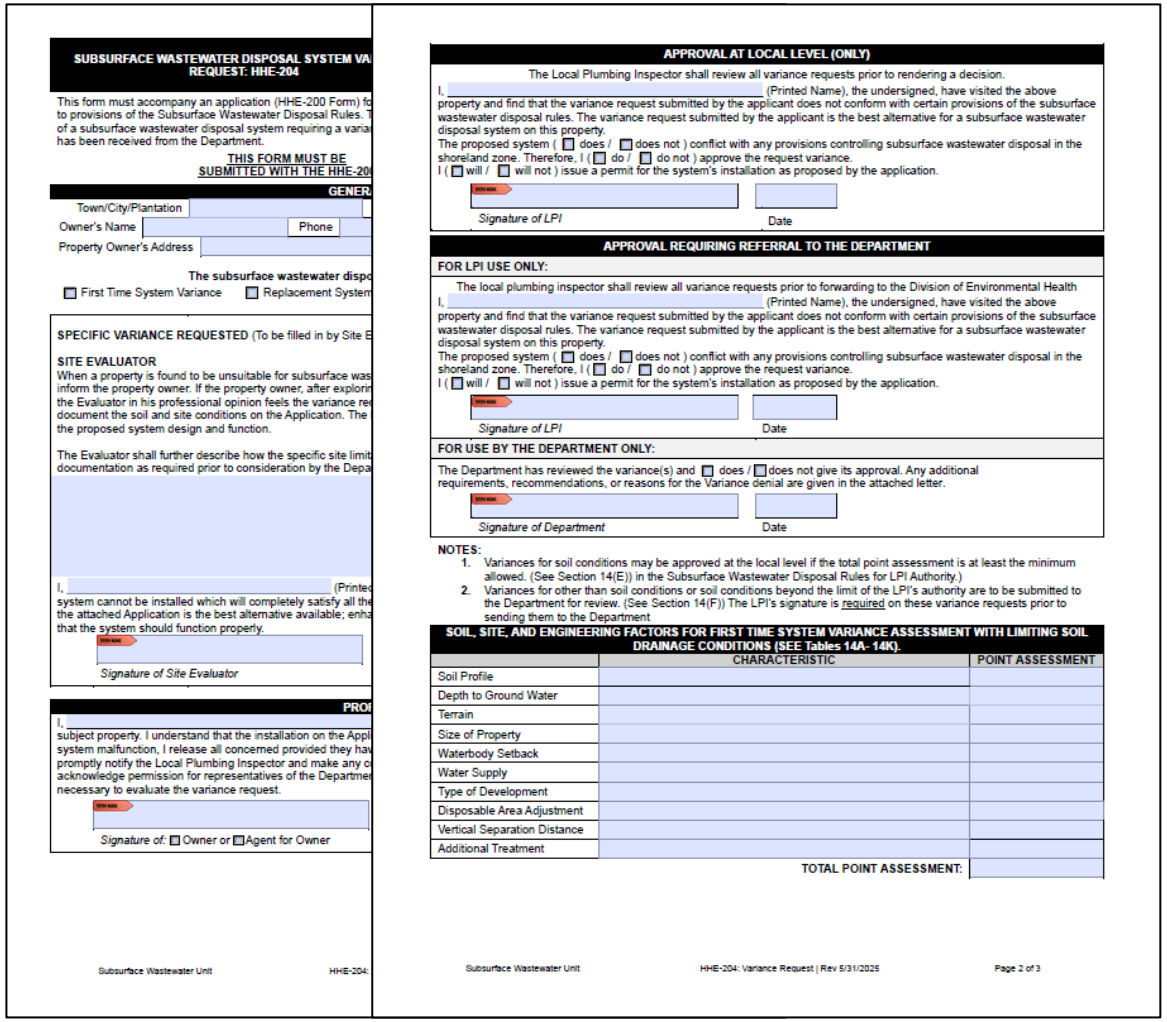
Subsurface Wastewater Disposal System
Permit Application (HHE-200) and Variance Request (HHE-204)

The HHE-200 and HHE-204 forms have been updated and can be used for permitting when released at the beginning of 2026. Previous versions of the forms will be acceptable until January 1, 2028.

Download the New Forms

- HHE-200 (PDF)
- HHE-200 AutoCAD
- HHE-204 (PDF)

HHE-204



SUBSURFACE WASTEWATER DISPOSAL SYSTEM VA
REQUEST: HHE-204

This form must accompany an application (HHE-200 Form) fo
to provisions of the Subsurface Wastewater Disposal Rules. T
of a subsurface wastewater disposal system requiring a varia
has been received from the Department.

THIS FORM MUST BE
SUBMITTED WITH THE HHE-20

GENER

Town/City/Plantation
Owner's Name Phone
Property Owner's Address

The subsurface wastewater dispo
☐ First Time System Variance ☐ Replacement System

SPECIFIC VARIANCE REQUESTED (To be filled in by Site E

SITE EVALUATOR
When a property is found to be unsuitable for subsurface was
inform the property owner. If the property owner, after explorir
the Evaluator in his professional opinion feels the variance re
document the soil and site conditions on the Application. The
the proposed system design and function.

The Evaluator shall further describe how the specific site limit
documentation as required prior to consideration by the Depa

I, (Printe
system cannot be installed which will completely satisfy all the
the attached Application is the best alternative available; enha
that the system should function properly.

Signature of Site Evaluator

PRO

I,
subject property. I understand that the installation on the Appl
system malfunction, I release all concerned provided they hav
promptly notify the Local Plumbing Inspector and make any c
acknowledge permission for representatives of the Departmer
necessary to evaluate the variance request.

Signature of: ☐ Owner or ☐ Agent for Owner

Subsurface Wastewater Unit HHE-204:

APPROVAL AT LOCAL LEVEL (ONLY)

The Local Plumbing Inspector shall review all variance requests prior to rendering a decision.

I, (Printed Name), 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 subsurface 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 request variance.
I (☐ will / ☐ will not) issue a permit for the system's installation as proposed by the application.

Signature of LPI Date

APPROVAL REQUIRING REFERRAL TO THE DEPARTMENT

FOR LPI USE ONLY:

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

I, (Printed Name), 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 subsurface 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 request variance.
I (☐ will / ☐ will not) issue a permit for the system's installation as proposed by the application.

Signature of LPI 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 Department Date

NOTES:
1. Variances for soil conditions may be approved at the local level if the total point assessment is at least the minimum allowed. (See Section 14(E)) in the Subsurface Wastewater Disposal Rules for LPI Authority.)
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 14(F)) 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 14A- 14K).

	CHARACTERISTIC	POINT ASSESSMENT
Soil Profile		
Depth to Ground Water		
Terrain		
Size of Property		
Waterbody Setback		
Water Supply		
Type of Development		
Disposable Area Adjustment		
Vertical Separation Distance		
Additional Treatment		
	TOTAL POINT ASSESSMENT:	

Subsurface Wastewater Unit HHE-204: Variance Request | Rev 5/31/2025 Page 2 of 3

Soils (From HHE-200) Soil Profile | Soil Condition | **Limiting Factors** Ground Water Table | Restrictive Layer | Bedrock

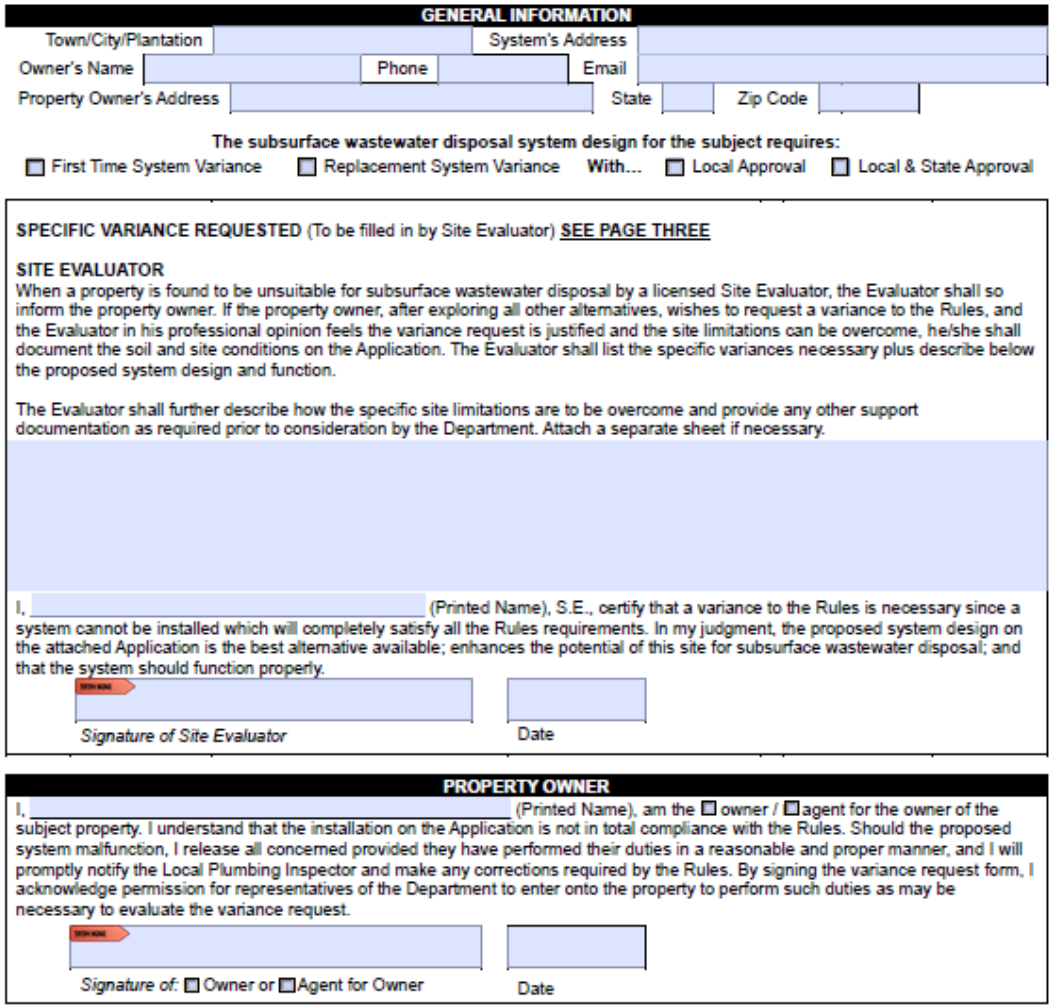
Site Features vs. disposal system components of various sizes	Disposal Fields (total design flow)			Septic Tanks and Holding Tanks (total design flow)			Disposal Fields	Septic Tanks
	Less than 1,000 gpd	1,000 to 1,999 gpd	Over 2,000 gpd	Less than 1,000 gpd	1,000 to 1,999 gpd	Over 2,000 gpd	To:	To:
Wells with water usage of under 2,000 or more gpd or public water supply wells	300 ft	300 ft	300 ft	150 ft	150 ft	150 ft		
Potable Supply Well	100 down to 60 ft	200 down to 100 ft	300 down to 150 ft	50 down to 25 ft [a]	100 down to 50 ft [a]	100 down to 50 ft		
Water supply line	10 ft	20 ft	25 ft	10 ft	10 ft	10 ft		
Water course, major [c]	100 down to 50 ft	200 down to 120 ft	300 down to 180 ft	100 down to 25 ft [a]	100 down to 50 ft	100 down to 50 ft		
Water course, minor [c]	50 down to 25 ft	100 down to 50 ft	150 down to 75 ft	50 down to 25 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	75 down to 35 ft	25 down to 12 ft	25 down to 12 ft	25 down to 12 ft		
Slopes greater than 3:1	10 ft	18 ft	25 ft	N/A	N/A	N/A		
No full basement (e.g. slabs, columns, posts)	15 down to 7 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Full basement (below grade foundation, frost wall)	20 down 10 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down 10 ft		
Property Lines	10 down to 5 ft [b]	18 down to 9 ft [b]	20 down to 10 ft [b]	10 down to 4 ft [b]	15 down to 7 ft [b]	20 down to 10 ft [b]		
Burial sites or graveyard boundaries, measures from the down toe of the fill extension	25 ft	25 ft	25 ft	25ft	25 ft	25 ft		
Stormwater infiltration systems	100 down to 60 ft	200 down to 120 ft	300 down to 180 ft	100 down to 50 ft	100 down to 50 ft	100 down to 50 ft		
Wet-ponds, retention ponds, and detention basis (excavated below grade); Soil filters under-drained swales, under-drained outlets, and similar structures	50 down to 25 ft [d]	100 down to 50 ft [d]	150 down 75 ft [d]	50 down to 25 ft [d]	50 down to 25 ft [d]	50 down to 25 ft [d]		
Stormwater detention basins (basin bottom at, or above, pre-development grade)	25 down to 12 ft	50 down to 25 ft [d]	75 down to 35 ft [d]	25 down to 12 ft	25 down to 12 ft	25 down to 12 ft		

Additional Notes:

Notes:
[a] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the LPI's presence and shown to be watertight pursuant to water tightness standards found in Section 7(H)(8) or of monolithic construction.
[b] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.
[c] All ground disturbance or clearing of woody vegetation necessary for the installation of a subsurface wastewater disposal system that occurs within 100 feet of the normal high-water mark of a major or minor water body/course must comply with this rule pertaining to work adjacent to or within wetlands and water bodies (for more details, see Section 13).
[d] The reduced setback distance may be further reduced down to 12 feet if the stormwater structure has an impervious liner and the fill extensions do not encroach onto the stormwater structure.
[e] The above table comes from Table 9A for **replacement systems. First-time systems may use this form but should refer to Section 8.**

Subsurface Wastewater Unit HHE-204: Variance Request | Rev 5/31/2025 Page 3 of 3

HHE-204: Page 1



GENERAL INFORMATION

Town/City/Plantation | System's Address

Owner's Name | Phone | Email

Property Owner's Address | State | Zip Code

The subsurface wastewater disposal system design for the subject requires:

☐ First Time System Variance ☐ Replacement System Variance **With...** ☐ Local Approval ☐ Local & State Approval

SPECIFIC VARIANCE REQUESTED (To be filled in by Site Evaluator) **SEE PAGE THREE**

SITE EVALUATOR

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/she 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.

I, _____ (Printed Name), S.E., certify that a variance to the Rules is necessary since a system cannot be installed which will completely satisfy all the Rules requirements. In my judgment, the proposed system design on the attached Application is the best alternative available; enhances the potential of this site for subsurface wastewater disposal; and that the system should function properly.

Signature of Site Evaluator | Date

PROPERTY OWNER

I, _____ (Printed Name), am the ☐ owner / ☐ 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.

Signature of: ☐ Owner or ☐ Agent for Owner | Date

HHE-204: Page 2

Top of Page 2

APPROVAL AT LOCAL LEVEL (ONLY)

The Local Plumbing Inspector shall review all variance requests prior to rendering a decision.

I, _____ (Printed Name), 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 subsurface 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 request variance.

I (☐ will / ☐ will not) issue a permit for the system's installation as proposed by the application.

Signature of LPI Date

APPROVAL REQUIRING REFERRAL TO THE DEPARTMENT

FOR LPI USE ONLY:

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

I, _____ (Printed Name), 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 subsurface 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 request variance.

I (☐ will / ☐ will not) issue a permit for the system's installation as proposed by the application.

Signature of LPI 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 Department Date

Bottom of Page 2

NOTES:

1. Variances for soil conditions may be approved at the local level if the total point assessment is at least the minimum allowed. (See Section 14(E)) in the Subsurface Wastewater Disposal Rules for LPI Authority.)
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 14(F)) 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 14A- 14K).

	CHARACTERISTIC	POINT ASSESSMENT
Soil Profile		
Depth to Ground Water		
Terrain		
Size of Property		
Waterbody Setback		
Water Supply		
Type of Development		
Disposable Area Adjustment		
Vertical Separation Distance		
Additional Treatment		
	TOTAL POINT ASSESSMENT:	

HHE-204: Page 3

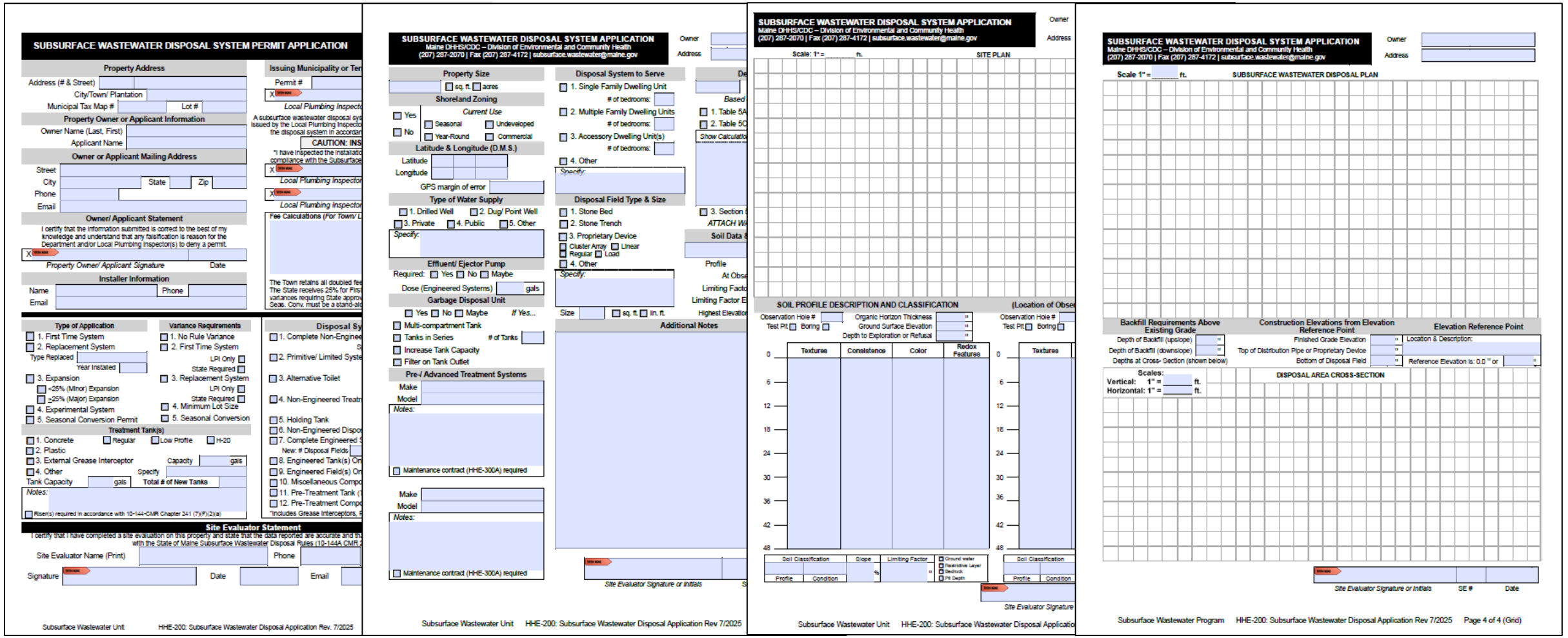
Soils (From HHE-200)	Soil Profile		Soil Condition		Limiting Factors	Ground Water Table		Restrictive Layer		Bedrock	

Site Features vs. disposal system components of various sizes	Disposal Fields (total design flow)			Septic Tanks and Holding Tanks (total design flow)			Disposal Fields	Septic Tanks
	Less than 1,000 gpd	1,000 to 1,999 gpd	Over 2,000 gpd	Less than 1,000 gpd	1,000 to 1,999 gpd	Over 2,000 gpd	To:	To:
Wells with water usage of under 2,000 or more gpd or public water supply wells	300 ft	300 ft	300 ft	150 ft	150 ft	150 ft		
Potable Supply Well	100 down to 60 ft	200 down to 100 ft	300 down to 150 ft	50 down to 25 ft [a]	100 down to 50 ft [a]	100 down to 50 ft		
Water supply line	10 ft	20 ft	25 ft	10 ft	10 ft	10 ft		
Water course, major [c]	100 down to 50 ft	200 down to 120 ft	300 down to 180 ft	100 down to 25 ft [a]	100 down to 50 ft	100 down to 50 ft		
Water course, minor [c]	50 down to 25 ft	100 down to 50 ft	150 down to 75 ft	50 down to 25 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	75 down to 35 ft	25 down to 12 ft	25 down to 12 ft	25 down to 12 ft		
Slopes greater than 3:1	10 ft	18 ft	25 ft	N/A	N/A	N/A		
No full basement (e.g. slabs, columns, posts)	15 down to 7 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Full basement (below grade foundation, frost wall)	20 down 10 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down 10 ft		
Property Lines	10 down to 5 ft [b]	18 down to 9 ft [b]	20 down to 10 ft [b]	10 down to 4 ft [b]	15 down to 7 ft [b]	20 down to 10 ft [b]		
Burial sites or graveyard boundaries, measures from the down toe of the fill extension	25 ft	25 ft	25 ft	25ft	25 ft	25 ft		
Stormwater infiltration systems	100 down to 60 ft	200 down to 120 ft	300 down to 180 ft	100 down to 50 ft	100 down to 50 ft	100 down to 50 ft		
Wet-ponds, retention ponds, and detention basis (excavated below grade); Soil filters under-drained swales, under-drained outlets, and similar structures	50 down to 25 ft [d]	100 down to 50 ft [d]	150 down 75 ft [d]	50 down to 25 ft [d]	50 down to 25 ft [d]	50 down to 25 ft [d]		
Stormwater detention basins (basin bottom at, or above, pre-development grade)	25 down to 12 ft	50 down to 25 ft [d]	75 down to 35 ft [d]	25 down to 12 ft	25 down to 12 ft	25 down to 12 ft		

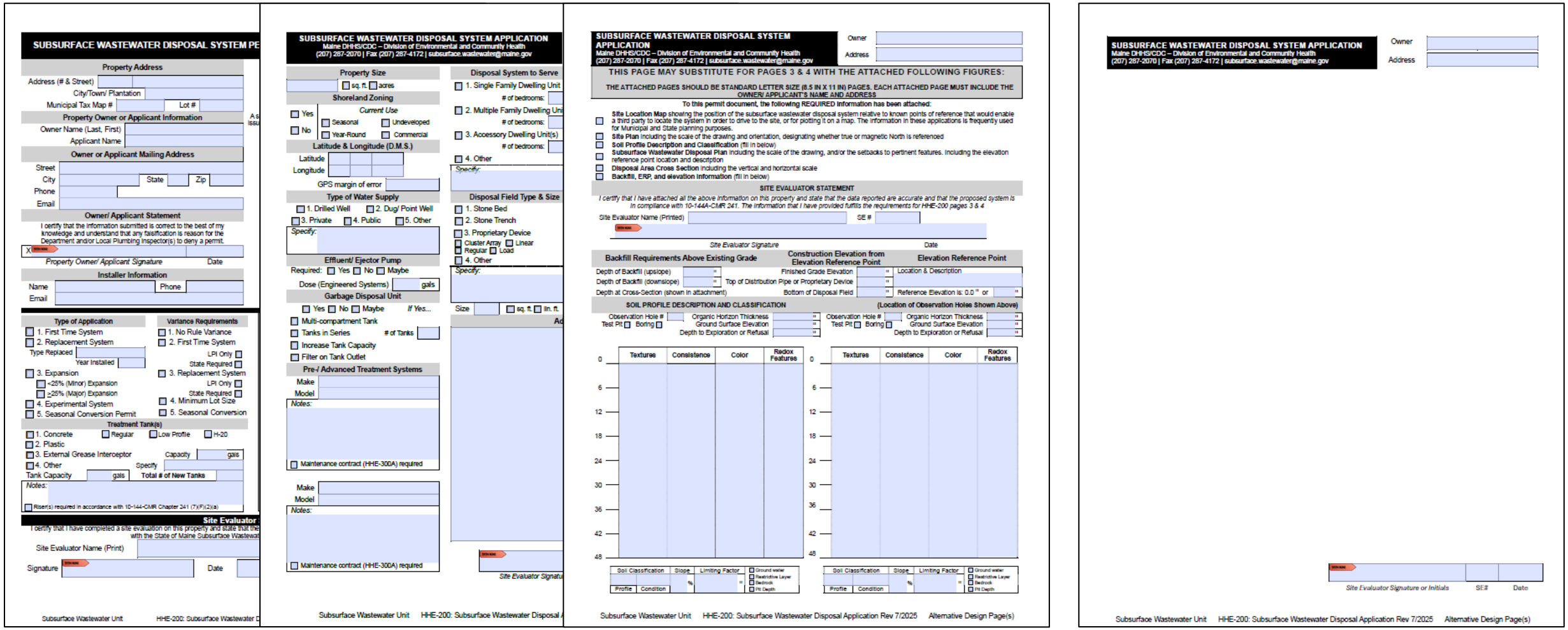
Additional Notes:

Notes:
[a] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the LPI's presence and shown to be watertight pursuant to water tightness standards found in Section 7(H)(8) or of monolithic construction.
[b] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.
[c] All ground disturbance or clearing of woody vegetation necessary for the installation of a subsurface wastewater disposal system that occurs within 100 feet of the normal high-water mark of a major or minor water body/course must comply with this rule pertaining to work adjacent to or within wetlands and water bodies (for more details, see Section 13).
[d] The reduced setback distance may be further reduced down to 12 feet if the stormwater structure has an impervious liner and the fill extensions do not encroach onto the stormwater structure.
[e] The above table comes from Table 9A for **replacement systems. First-time systems may use this form but should refer to Section 8.**

The New HHE-200



HHE-200 Using Alternative Pg 3



SUBSURFACE WASTEWATER DISPOSAL SYSTEM PE

Property Address
Address (# & Street)
City/Town/ Plantation
Municipal Tax Map # Lot #
Property Owner or Applicant Information
Owner Name (Last, First)
Applicant Name
Owner or Applicant Mailing Address
Street
City State Zip
Phone
Email
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 Department and/or Local Plumbing Inspector(s) to deny a permit.
X
Property Owner/ Applicant Signature Date
Installer Information
Name Phone
Email

Type of Application
1. First Time System
2. Replacement System
Type Replaced
Year Installed
3. Expansion
<25% (Minor) Expansion
≥25% (Major) Expansion
4. Experimental System
5. Seasonal Conversion Permit

Variance Requirements
1. No Rule Variance
2. First Time System
LPI Only
State Required
3. Replacement System
LPI Only
State Required
4. Minimum Lot Size
5. Seasonal Conversion

Treatment Tank(s)
1. Concrete Regular Low Profile H-20
2. Plastic
3. External Grease Interceptor Capacity gals
4. Other Specify
Tank Capacity gals Total # of New Tanks
Notes:
Riser(s) required in accordance with 10-144-CMR Chapter 241 (7)(F)(2)(a)

Site Evaluator
I certify that I have completed a site evaluation on this property and state that the with the State of Maine Subsurface Wastewat
Site Evaluator Name (Print)
Signature Date

Subsurface Wastewater Unit HHE-200: Subsurface Wastewater D

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION
Maine DHHS/CDC – Division of Environmental and Community Health
(207) 287-2070 | Fax (207) 287-4172 | subsurface.wastewater@maine.gov

Property Size
sq. ft. acres
Shoreland Zoning
Yes No
Current Use
Seasonal Undeveloped
Year-Round Commercial
Latitude & Longitude (D.M.S.)
Latitude
Longitude
GPS margin of error
Type of Water Supply
1. Drilled Well 2. Dug/ Point Well
3. Private 4. Public 5. Other
Specify:
Effluent/ Ejector Pump
Required: Yes No Maybe
Dose (Engineered Systems) gals
Garbage Disposal Unit
Yes No Maybe If Yes...
Multi-compartment Tank
Tanks in Series # of Tanks
Increase Tank Capacity
Filter on Tank Outlet
Pre-/ Advanced Treatment Systems
Make
Model
Notes:
Maintenance contract (HHE-300A) required
Make
Model
Notes:
Maintenance contract (HHE-300A) required

Disposal System to Serve
1. Single Family Dwelling Unit
# of bedrooms:
2. Multiple Family Dwelling Uni
# of bedrooms:
3. Accessory Dwelling Unit(s)
# of bedrooms:
4. Other
Specify:
Disposal Field Type & Size
1. Stone Bed
2. Stone Trench
3. Proprietary Device
Cluster Array Linear
Regular Load
4. Other
Specify:
Size sq. ft. lin. ft.
Site Evaluator Signatu

Subsurface Wastewater Unit HHE-200: Subsurface Wastewater Disposal A

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION
Maine DHHS/CDC – Division of Environmental and Community Health
(207) 287-2070 | Fax (207) 287-4172 | subsurface.wastewater@maine.gov
Owner
Address

THIS PAGE MAY SUBSTITUTE FOR PAGES 3 & 4 WITH THE ATTACHED FOLLOWING FIGURES:
THE ATTACHED PAGES SHOULD BE STANDARD LETTER SIZE (8.5 IN X 11 IN) PAGES. EACH ATTACHED PAGE MUST INCLUDE THE OWNER/ APPLICANT'S NAME AND ADDRESS
To this permit document, the following REQUIRED information has been attached:
Site Location Map showing the position of the subsurface wastewater disposal system relative to known points of reference that would enable a third party to locate the system in order to drive to the site, or for plotting it on a map. The information in these applications is frequently used for Municipal and State planning purposes.
Site Plan including the scale of the drawing and orientation, designating whether true or magnetic North is referenced
Soil Profile Description and Classification (fill in below)
Subsurface Wastewater Disposal Plan including the scale of the drawing, and/or the setbacks to pertinent features. Including the elevation reference point location and description
Disposal Area Cross Section including the vertical and horizontal scale
Backfill, ERP, and elevation information (fill in below)

SITE EVALUATOR STATEMENT
I certify that I have attached all the above information on this property and state that the data reported are accurate and that the proposed system is in compliance with 10-144A-CMR 241. The information that I have provided fulfills the requirements for HHE-200 pages 3 & 4
Site Evaluator Name (Printed) SE #
Site Evaluator Signature Date

Backfill Requirements Above Existing Grade
Depth of Backfill (upslope)
Depth of Backfill (downslope)
Depth at Cross-Section (shown in attachment)
Construction Elevation from Elevation Reference Point
Finished Grade Elevation
Top of Distribution Pipe or Proprietary Device
Bottom of Disposal Field
Elevation Reference Point
Location & Description
Reference Elevation is: 0.0 or

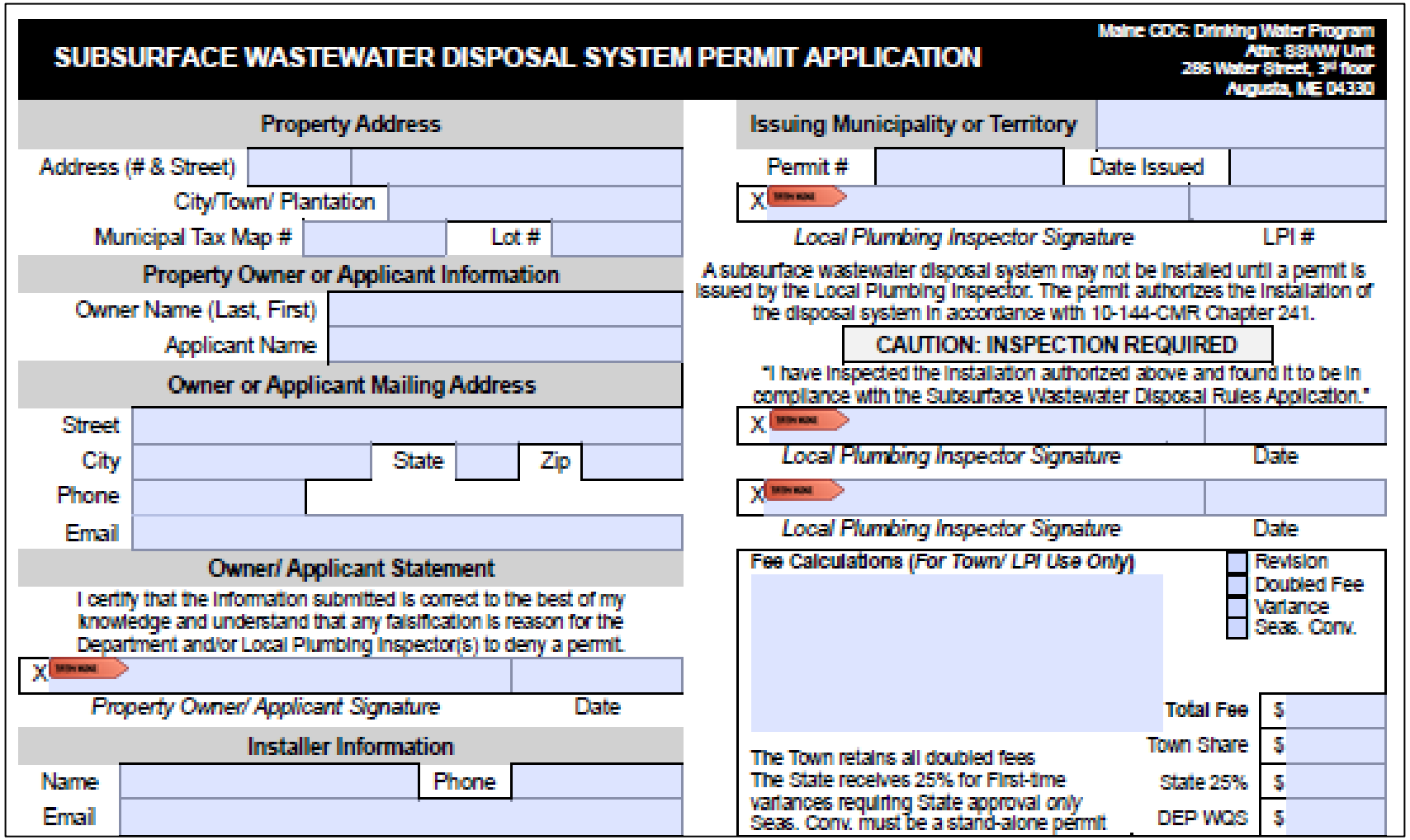
SOIL PROFILE DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)
Observation Hole # Test Pit Boring
Organic Horizon Thickness
Ground Surface Elevation
Depth to Exploration or Refusal
Textures Consistence Color Redox Features
0 6 12 18 24 30 36 42 48
Soil Classification Slope Limiting Factor
Profile Condition
Ground water Restrictive Layer Bedrock Pit Depth

Subsurface Wastewater Unit HHE-200: Subsurface Wastewater Disposal Application Rev 7/2025 Alternative Design Page(s)

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION
Maine DHHS/CDC – Division of Environmental and Community Health
(207) 287-2070 | Fax (207) 287-4172 | subsurface.wastewater@maine.gov
Owner
Address
Site Evaluator Signature or Initials SE# Date

Subsurface Wastewater Unit HHE-200: Subsurface Wastewater Disposal Application Rev 7/2025 Alternative Design Page(s)

HHE-200: Page 1- top



SUBSURFACE WASTEWATER DISPOSAL SYSTEM PERMIT APPLICATION

Maine CDC: Drinking Water Program
Attn: SSWW Unit
286 Water Street, 3rd floor
Augusta, ME 04330

Property Address

Address (# & Street)
City/Town/ Plantation
Municipal Tax Map # | Lot #

Property Owner or Applicant Information

Owner Name (Last, First)
Applicant Name

Owner or Applicant Mailing Address

Street
City | State | Zip
Phone
Email

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 Department and/or Local Plumbing Inspector(s) to deny a permit.

X _____ _____
Property Owner/ Applicant Signature Date

Installer Information

Name | Phone
Email

Issuing Municipality or Territory

Permit # | Date Issued

X _____ _____
Local Plumbing Inspector Signature LPI #

A subsurface wastewater disposal system may not be installed until a permit is issued by the Local Plumbing Inspector. The permit authorizes the installation of the disposal system in accordance with 10-144-CMR Chapter 241.

CAUTION: INSPECTION REQUIRED

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

X _____ _____
Local Plumbing Inspector Signature Date

X _____ _____
Local Plumbing Inspector Signature Date

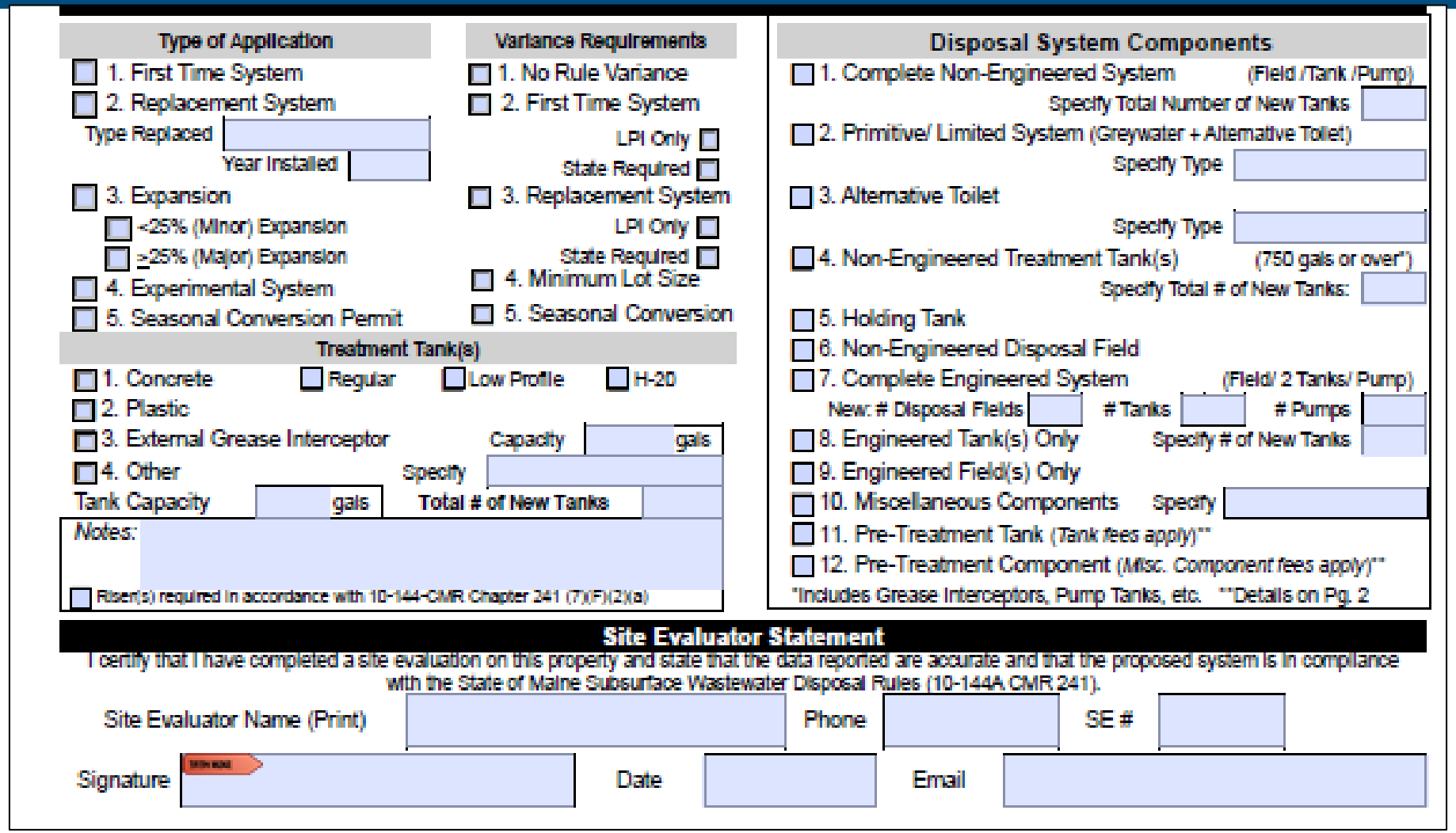
Fee Calculations (*For Town/ LPI Use Only*)

☐ Revision
☐ Doubled Fee
☐ Variance
☐ Seas. Conv.

Total Fee	$
Town Share	$
State 25%	$
DEP WQS	$

The Town retains all doubled fees
The State receives 25% for First-time variances requiring State approval only
Seas. Conv. must be a stand-alone permit

HHE-200: Page 1- bottom



Type of Application

- ☐ 1. First Time System
- ☐ 2. Replacement System
  - Type Replaced
  - Year Installed
- ☐ 3. Expansion
  - ☐ <25% (Minor) Expansion
  - ☐ ≥25% (Major) Expansion
- ☐ 4. Experimental System
- ☐ 5. Seasonal Conversion Permit

Variance Requirements

- ☐ 1. No Rule Variance
- ☐ 2. First Time System
  - LPI Only ☐
  - State Required ☐
- ☐ 3. Replacement System
  - LPI Only ☐
  - State Required ☐
- ☐ 4. Minimum Lot Size
- ☐ 5. Seasonal Conversion

Treatment Tank(s)

- ☐ 1. Concrete ☐ Regular ☐ Low Profile ☐ H-20
- ☐ 2. Plastic
- ☐ 3. External Grease Interceptor — Capacity ____ gals
- ☐ 4. Other — Specify
- Tank Capacity ____ gals — **Total # of New Tanks**
- *Notes:*
- ☐ Riser(s) required in accordance with 10-144-CMR Chapter 241 (7)(F)(2)(a)

Disposal System Components

- ☐ 1. Complete Non-Engineered System (Field /Tank /Pump) — Specify Total Number of New Tanks
- ☐ 2. Primitive/ Limited System (Greywater + Alternative Toilet) — Specify Type
- ☐ 3. Alternative Toilet — Specify Type
- ☐ 4. Non-Engineered Treatment Tank(s) (750 gals or over*) — Specify Total # of New Tanks:
- ☐ 5. Holding Tank
- ☐ 6. Non-Engineered Disposal Field
- ☐ 7. Complete Engineered System (Field/ 2 Tanks/ Pump) — New: # Disposal Fields ____ # Tanks ____ # Pumps ____
- ☐ 8. Engineered Tank(s) Only — Specify # of New Tanks
- ☐ 9. Engineered Field(s) Only
- ☐ 10. Miscellaneous Components — Specify
- ☐ 11. Pre-Treatment Tank (*Tank fees apply*)**
- ☐ 12. Pre-Treatment Component (*Misc. Component fees apply*)**

*Includes Grease Interceptors, Pump Tanks, etc. **Details on Pg. 2

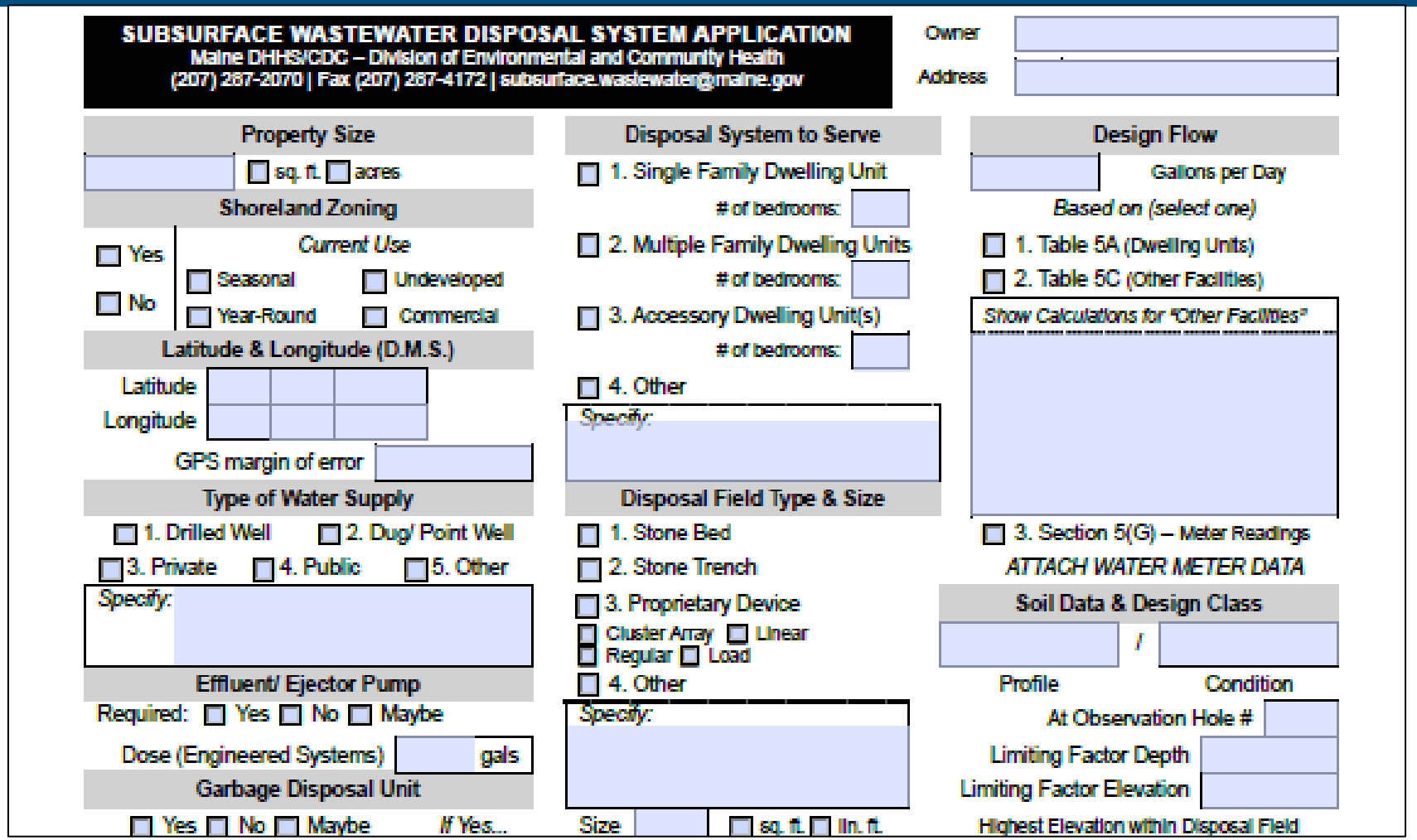
Site Evaluator Statement

I certify that I have 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).

Site Evaluator Name (Print) — Phone — SE #

Signature — Date — Email

HHE-200: Page 2- top



SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION
Maine DHHS/CDC – Division of Environmental and Community Health
(207) 287-2070 | Fax (207) 287-4172 | subsurface.wastewater@maine.gov

Owner
Address

Property Size
sq. ft. acres

Shoreland Zoning
Yes
No
Current Use
Seasonal
Year-Round
Undeveloped
Commercial

Latitude & Longitude (D.M.S.)
Latitude
Longitude
GPS margin of error

Type of Water Supply
1. Drilled Well
2. Dug/ Point Well
3. Private
4. Public
5. Other
Specify:

Effluent/ Ejector Pump
Required: Yes No Maybe
Dose (Engineered Systems) gals

Garbage Disposal Unit
Yes No Maybe *If Yes...*

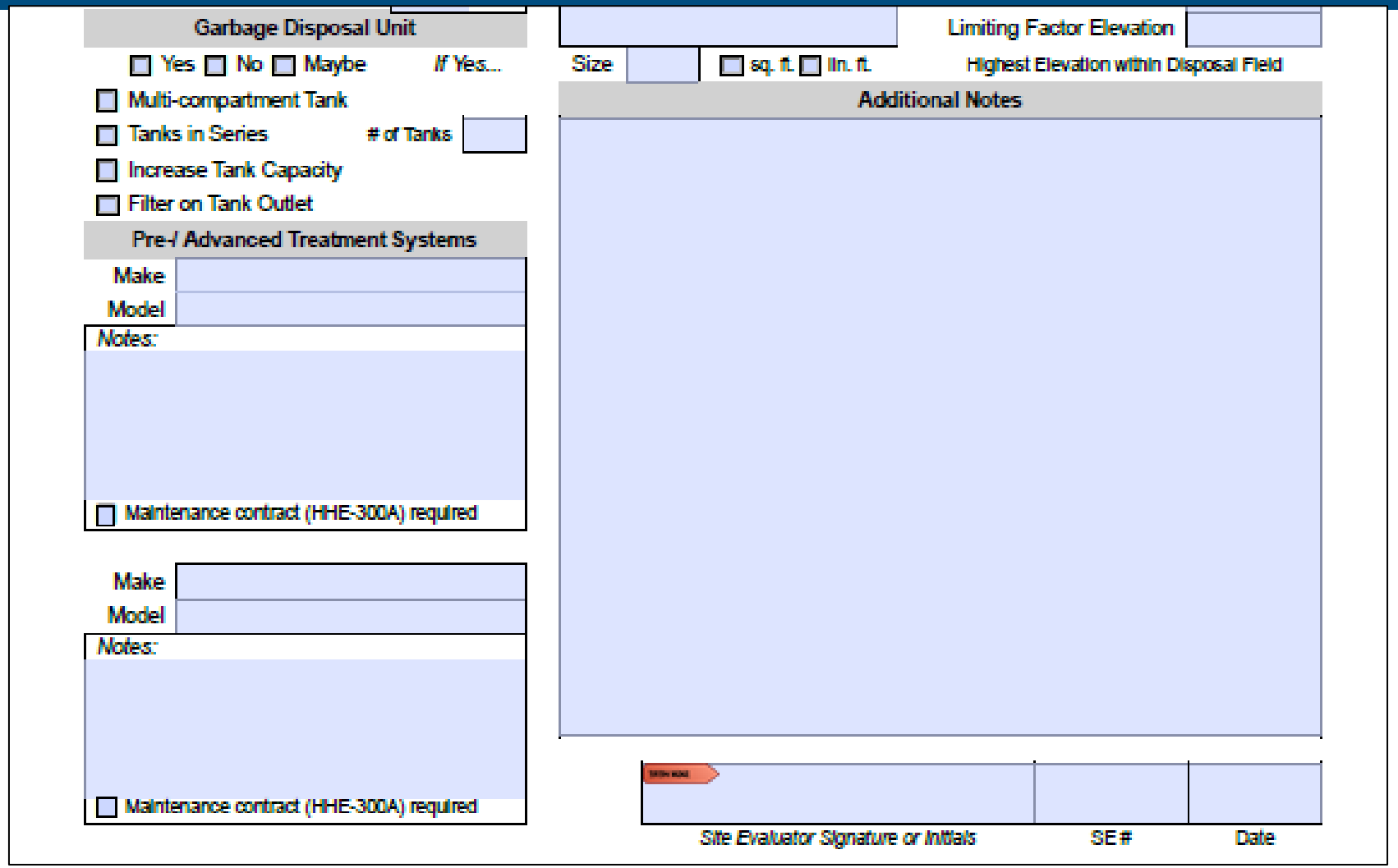
Disposal System to Serve
1. Single Family Dwelling Unit
# of bedrooms:
2. Multiple Family Dwelling Units
# of bedrooms:
3. Accessory Dwelling Unit(s)
# of bedrooms:
4. Other
Specify:

Disposal Field Type & Size
1. Stone Bed
2. Stone Trench
3. Proprietary Device
Cluster Array Linear
Regular Load
4. Other
Specify:
Size sq. ft. lin. ft.

Design Flow
Gallons per Day
Based on (select one)
1. Table 5A (Dwelling Units)
2. Table 5C (Other Facilities)
Show Calculations for "Other Facilities"
3. Section 5(G) – Meter Readings
ATTACH WATER METER DATA

Soil Data & Design Class
/
Profile Condition
At Observation Hole #
Limiting Factor Depth
Limiting Factor Elevation
Highest Elevation within Disposal Field

HHE-200: Page 2- bottom



Garbage Disposal Unit

☐ Yes ☐ No ☐ Maybe *If Yes...*

☐ Multi-compartment Tank

☐ Tanks in Series # of Tanks

☐ Increase Tank Capacity

☐ Filter on Tank Outlet

Pre-/ Advanced Treatment Systems

Make

Model

Notes:

☐ Maintenance contract (HHE-300A) required

Make

Model

Notes:

☐ Maintenance contract (HHE-300A) required

Limiting Factor Elevation

Size ☐ sq. ft. ☐ lin. ft. Highest Elevation within Disposal Field

Additional Notes

Site Evaluator Signature or Initials SE # Date

HHE-200: Alternative Page 3- top

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION
Maine DHHS/CDC – Division of Environmental and Community Health
(207) 287-2070 | Fax (207) 287-4172 | subsurface.wastewater@maine.gov

Owner
Address

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To this permit document, the following REQUIRED information has been attached:

- ☐ **Site Location Map** showing the position of the subsurface wastewater disposal system relative to known points of reference that would enable a third party to locate the system in order to drive to the site, or for plotting it on a map. The information in these applications is frequently used for Municipal and State planning purposes.
- ☐ **Site Plan** including the scale of the drawing and orientation, designating whether true or magnetic North is referenced
- ☐ **Soil Profile Description and Classification** (fill in below)
- ☐ **Subsurface Wastewater Disposal Plan** including the scale of the drawing, and/or the setbacks to pertinent features. Including the elevation reference point location and description
- ☐ **Disposal Area Cross Section** including the vertical and horizontal scale
- ☐ **Backfill, ERP, and elevation Information** (fill in below)

SITE EVALUATOR STATEMENT

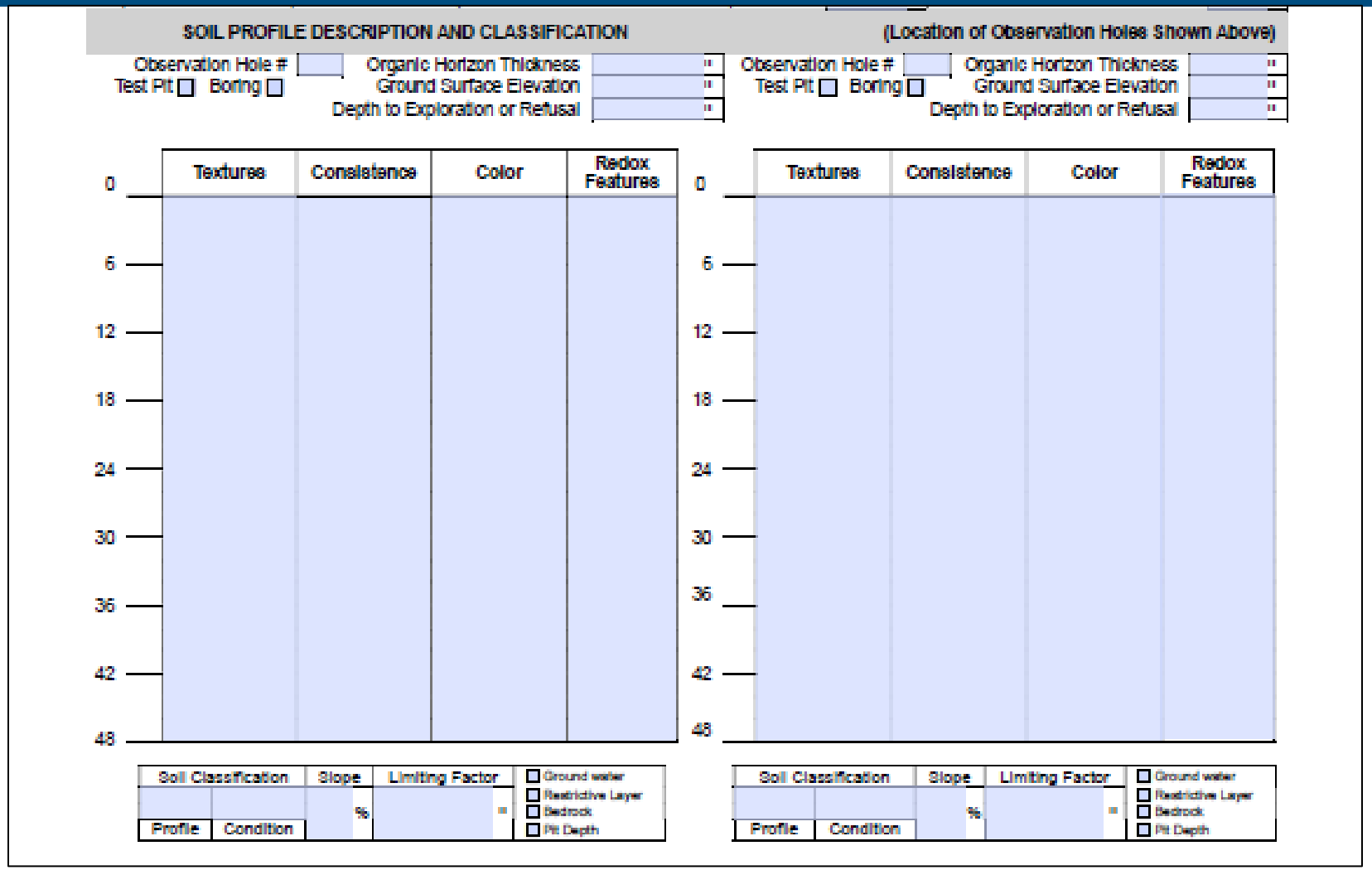
I certify that I have attached all the above information on this property and state that the data reported are accurate and that the proposed system is in compliance with 10-144A-CMR 241. The information that I have provided fulfills the requirements for HHE-200 pages 3 & 4

Site Evaluator Name (Printed) SE #

Site Evaluator Signature Date

Backfill Requirements Above Existing Grade		Construction Elevation from Elevation Reference Point		Elevation Reference Point	
Depth of Backfill (upslope)	"	Finished Grade Elevation	"	Location & Description	
Depth of Backfill (downslope)	"	Top of Distribution Pipe or Proprietary Device	"		
Depth at Cross-Section (shown in attachment)		Bottom of Disposal Field	"	Reference Elevation is: 0.0 " or	"

HHE-200: Alternative Page 3- bottom



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

Observation Hole # ☐ Test Pit ☐ Boring
Organic Horizon Thickness "
Ground Surface Elevation "
Depth to Exploration or Refusal "

	Textures	Consistence	Color	Redox Features
0				
6				
12				
18				
24				
30				
36				
42				
48				

Soil Classification		Slope	Limiting Factor	
		%		=
Profile	Condition			

☐ Ground water
☐ Restrictive Layer
☐ Bedrock
☐ Pit Depth

Observation Hole # ☐ Test Pit ☐ Boring
Organic Horizon Thickness "
Ground Surface Elevation "
Depth to Exploration or Refusal "

	Textures	Consistence	Color	Redox Features
0				
6				
12				
18				
24				
30				
36				
42				
48				

Soil Classification		Slope	Limiting Factor	
		%		=
Profile	Condition			

☐ Ground water
☐ Restrictive Layer
☐ Bedrock
☐ Pit Depth

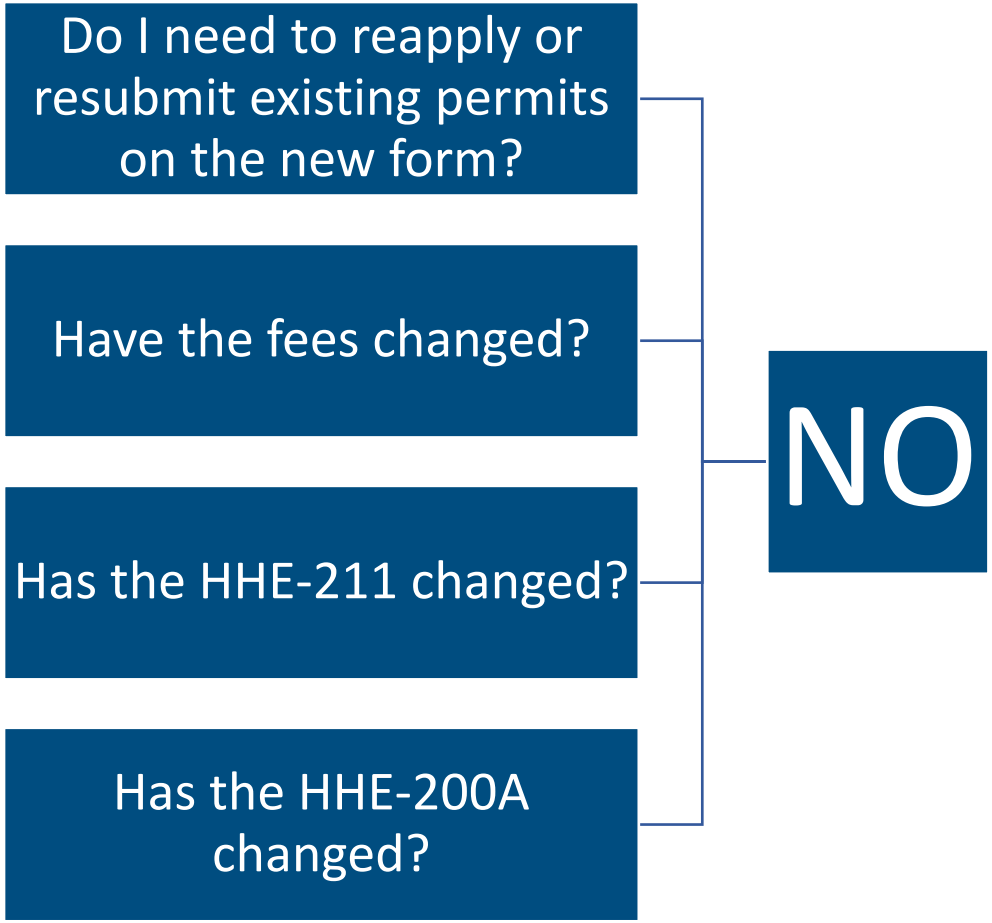
FAQ

- Can I still use the old forms for a while?

  YES

  - The state isn't requiring a full switch to the new forms until 1/1/28
  - After 1/1/28, permits can no longer be on the old form. If a permit was designed in 2026 on the old form and the property owner doesn't permit it until 2028, then the design will need to be redone on the new form.

FAQ


Do I need to reapply or resubmit existing permits on the new form?
Have the fees changed?
Has the HHE-211 changed?
Has the HHE-200A changed?
NO

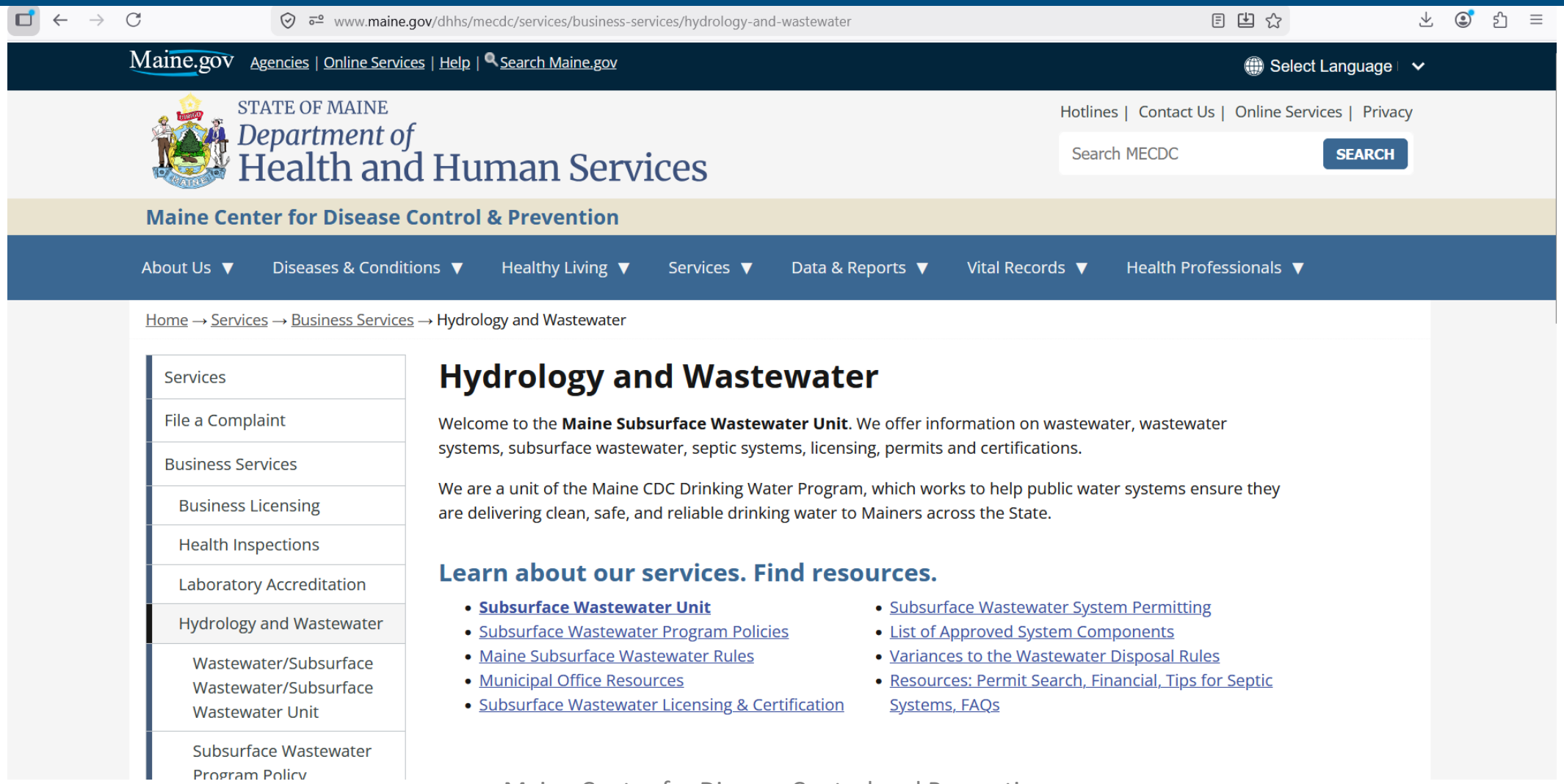
FAQ

- Who fills out the new “Installer Information Box?”
  - The town fills out this box.
  - The purpose is to coordinate installation inspections.
  - The Installer Box does not need to be filled out for the permit to be submitted to the Town or State.
  - Please advise your clients (property owners) not to fill out the Installer Box.

Future Form Updates?

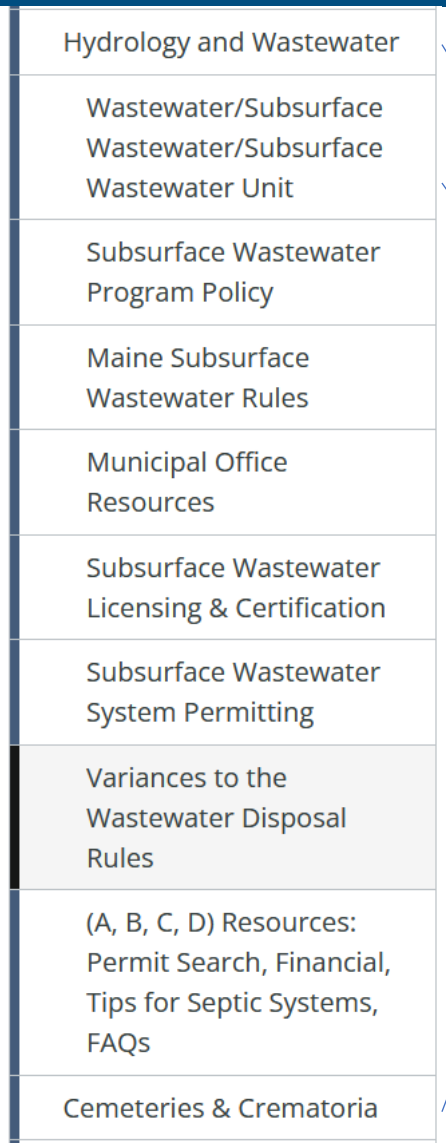
- Minor changes are being collected and an update addressing them will be put out by early May
- Examples of Expected Changes:
  - Adding "Town Use Only" to Installer Information Section
  - Adding a landscape page for adding septic designs
  - Small language adjustments

SSWW Website



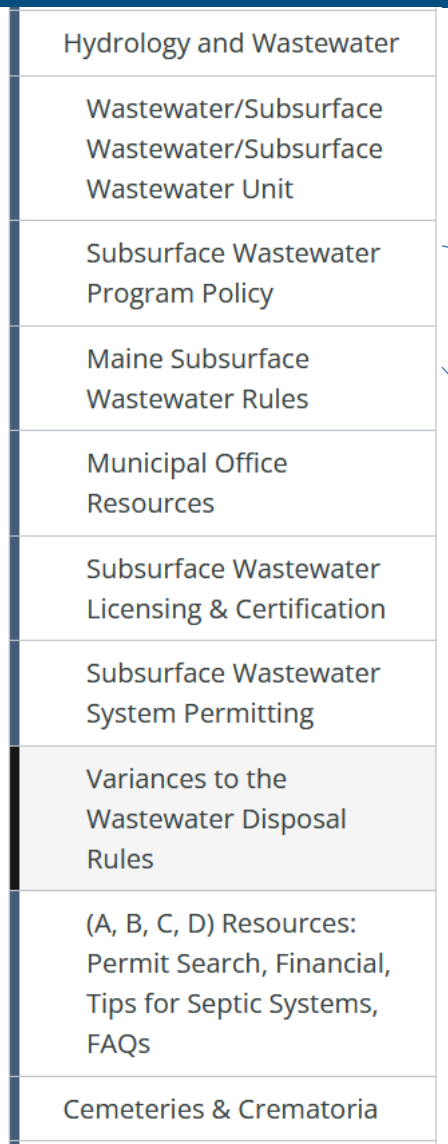
Maine Center for Disease Control and Prevention

Website Navigation



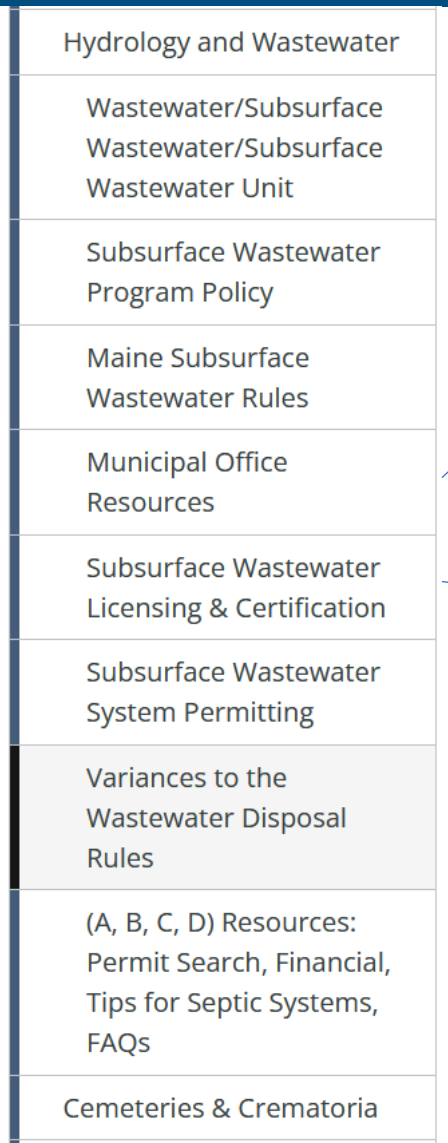
- **Hydrology and Wastewater:** landing page
- **Wastewater/ SSWW/ SSWW Unit:** about page
- **Cemeteries & Crematoria:** info & FAQ on registering a cemetery, crematoria or family burial ground

Website Navigation



- **Subsurface Wastewater Program Policy:** location of SSWW policies
- **Maine SSWW Rules:** link to the SSWW Disposal Rules + notes on the 2023 changes

Website Navigation



- **Municipal Office Resources:** links to SSWW and internal plumbing rules, list of all our forms/ documents, reminders for permit submission, information on the variance process, other links

- **Subsurface Licensing & Certification:** info on licensing and certification processes, active SE/ Installer/ Inspector/ LUPC LPI lists, and Training Schedule

Change to Installer Certification Requirements

Certification:

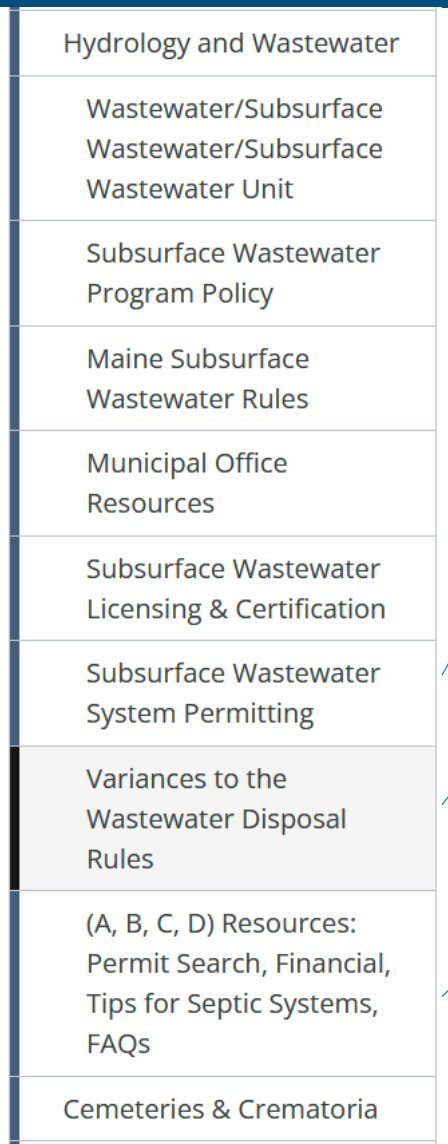
- Attendance at one Maine SSWW unit training session (4 CEUs)* ; and
- Attendance at one Maine DEP erosion control course* ; and
- Submission of two (2) HHE-200 Forms

  * Changed from a full day (8 CEUs) Maine SSWW unit training session

Recertification:

- 6 CEUs within 5 years

Website Navigation



- **Subsurface Wastewater Permitting:** walk through of how to get a SSWW permit (written for the public)
- **Variances to the Wastewater Disposal Rules:** explainer on variances (written for the public)
- **(ABCD) Resources: Permit Search, Financial, Tips for Septic Systems, FAQs:** resources for the public + link and explainers for the permit search database

Searching for Permits

Septic System Permit Search

This free service allows citizens to search for the septic plans (HHE-200 and HHE-200A subsurface wastewater disposal system applications) for a given address.

Start your search

Instructions for Using the SSWW Permit Application Search Tool

View or download (PDF) an illustrated copy of these instructions.

Open the **Permit Search Tool**

SEARCH: Using the drop-down arrows at the far right of your screen, identify your search parameters.

- **Type of Permit** application (HHE-200, disposal systems and/or components, or HHE-200A, replacement septic tanks).
- **Town** (or city) in which the property is located.
- **Year Range** – Unless you are certain of the exact year the system or tank was installed, try searching a multi-year range (for example, 2010-2015).
- **For permits issued in 2019 or after**, additional parameters such as **Street Name** and **Owner's Name*** might be helpful. (*Specifically, the property owner when the permit was issued.)

Click on the **Search** button.

RESULTS: A list of all permit applications issued by the Town of your choosing, within the date range you identified, will appear.

- For permits issued **before 2019**, we recommend sorting by **Filename**. In this single column, the **street address**, the **property owner**, and the Town's **map-and-lot numbers** are identified.

Permit Search Database

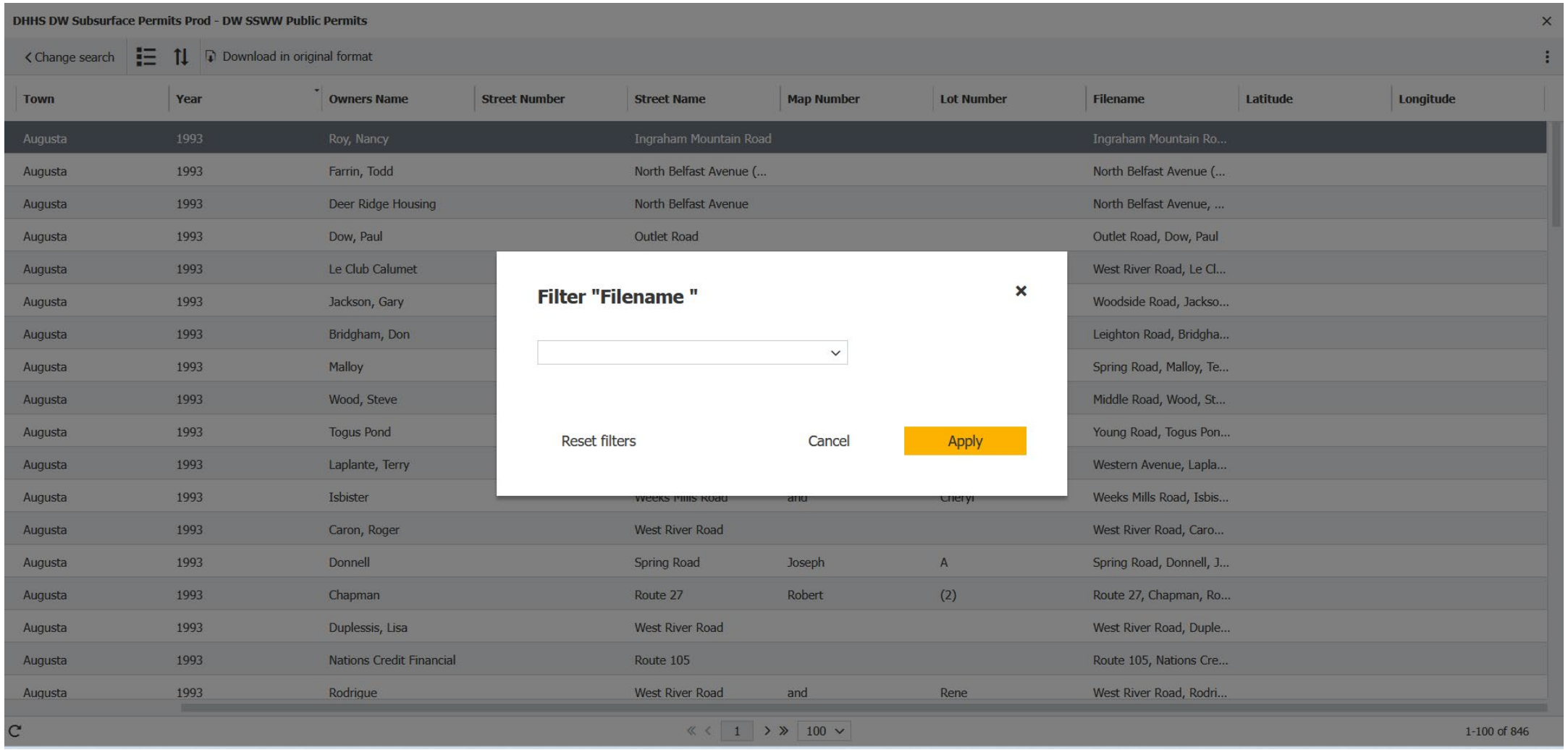
Permit Search Database

DHHS DW Subsurface Permits Prod - DW SSWW Public Permits

< Change search | Download in original format

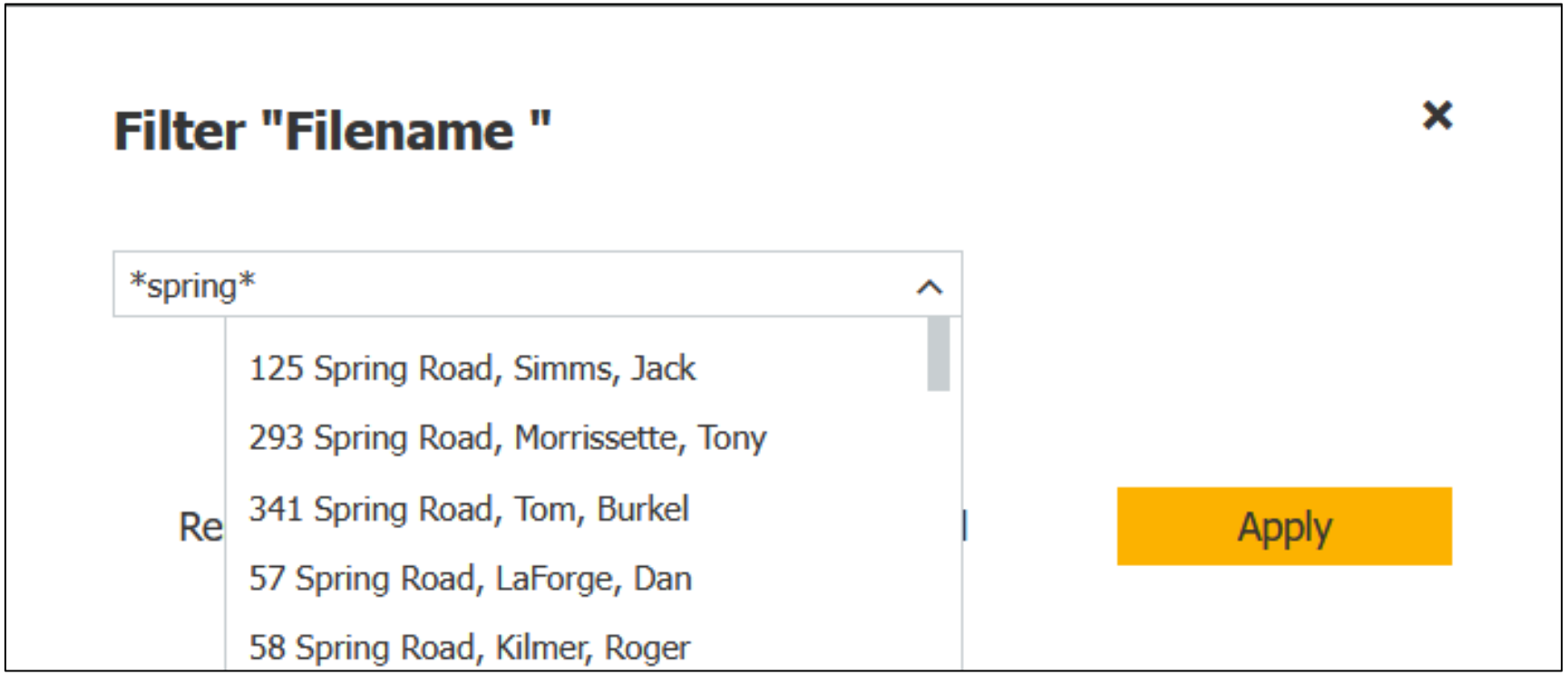
Town	Year	Owners Name	Street Number	Street Name	Map Number	Lot Number	Filename	Latitude	Longitude
Augusta	1993	Roy, Nancy		Ingraham Mountain Road			Ingraham Mountain Ro...		
Augusta	1993	Farrin, Todd		North Belfast Avenue (...			North Belfast Avenue (...		
Augusta	1993	Deer Ridge Housing		North Belfast Avenue			North Belfast Avenue, ...		
Augusta	1993	Dow, Paul		Outlet Road			Outlet Road, Dow, Paul		
Augusta	1993	Le Club Calumet		West River Road			West River Road, Le Cl...		
Augusta	1993	Jackson, Gary		Woodside Road			Woodside Road, Jackso...		
Augusta	1993	Bridgham, Don		Leighton Road			Leighton Road, Bridgha...		
Augusta	1993	Malloy		Spring Road	and	Tanya	Spring Road, Malloy, Te...		
Augusta	1993	Wood, Steve		Middle Road			Middle Road, Wood, St...		
Augusta	1993	Togus Pond		Young Road	Williams	Williams	Young Road, Togus Pon...		
Augusta	1993	Laplante, Terry		Western Avenue			Western Avenue, Lapla...		
Augusta	1993	Isbister		Weeks Mills Road	and	Cheryl	Weeks Mills Road, Isbis...		
Augusta	1993	Caron, Roger		West River Road			West River Road, Caro...		
Augusta	1993	Donnell		Spring Road	Joseph	A	Spring Road, Donnell, J...		
Augusta	1993	Chapman		Route 27	Robert	(2)	Route 27, Chapman, Ro...		
Augusta	1993	Duplessis, Lisa		West River Road			West River Road, Duple...		
Augusta	1993	Nations Credit Financial		Route 105			Route 105, Nations Cre...		
Augusta	1993	Rodrigue		West River Road	and	Rene	West River Road, Rodri...		

Permit Search Database



Maine Center for Disease Control and Prevention

Permit Search Database



The * tells the database “give me all results where *keyword* is included.”

Without the * you might get only the results *starting* with your keyword.

Permit Search Database

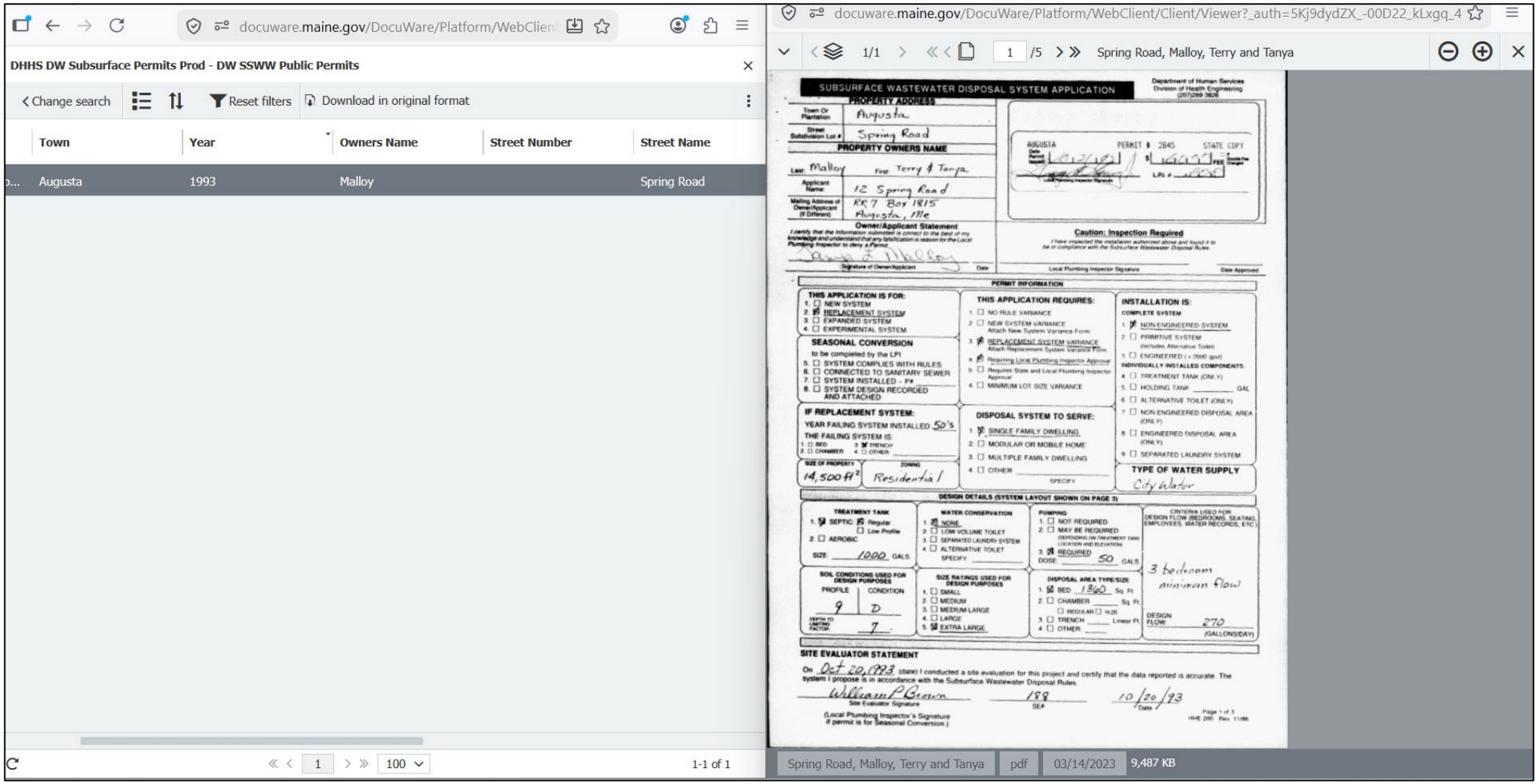
DHHS DW Subsurface Permits Prod - DW SSWW Public Permits

< Change search | Reset filters | Download in original format

Town	Year	Owners Name	Street Number	Street Name	Map Number	Lot Number	Filename	Latitude	Longitude
Augusta	1993	Malloy		Spring Road	and	Tanya	Spring Road, Malloy, Te...		
Augusta	1993	Donnell		Spring Road	Joseph	A	Spring Road, Donnell, J...		
Augusta	1993	Simms, Jack	125	Spring Road			125 Spring Road, Simm...		
Augusta	1993	Tom, Burkel	341	Spring Road			341 Spring Road, Tom, ...		
Augusta	1993	LaForge, Dan	57	Spring Road			57 Spring Road, LaForg...		
Augusta	1993	Kilmer, Roger	58	Spring Road			58 Spring Road, Kilmer,...		
Augusta	1993	Morrissette, Tony	293	Spring Road			293 Spring Road, Morri...		
Augusta	1992	Kilmer, Robert		Spring Road			Spring Road, Kilmer, Ro...		
Augusta	1992	Baker, Gary		Spring Road			Spring Road, Baker, Gary		
Augusta	1991	Quirion		Spring Road	Joseph	L	Spring Road, Quirion, J...		
Augusta	1990	Levesque, Yvette		Spring Road			Spring Road, Levesque,...		
Augusta	1989	Mills, Charles		Spring Road			Spring Road, Mills, Cha...		
Augusta	1989	Spring Hill Lot 3		South Belfast Avenue	Tillson	Tillson	South Belfast Avenue, ...		
Augusta	1988	Saint Pierre		Spring Road	and	Helen	Spring Road, Saint Pier...		
Augusta	1988	Garand, Ben		Spring Road			Spring Road, Garand, B...		
Augusta	1988	Beeckel, Tom		Spring Road			Spring Road, Beeckel, ...		
Augusta	1985	Kilmer, Robert		Spring Road			Spring Road, Kilmer, Ro...		
Augusta	1985	Dunbar, Yvonne		off Spring Road			off Spring Road, Dunba...		

Permit Search Database

Permit Search Database



Maine Center for Disease Control and Prevention

Permit Search Database

When searching the database remember that…

permits are filled out by humans!

- Names get misspelled
- Roads get misspelled
- People will name their driveways like it’s a road
- Not all of the identifying information gets filled out

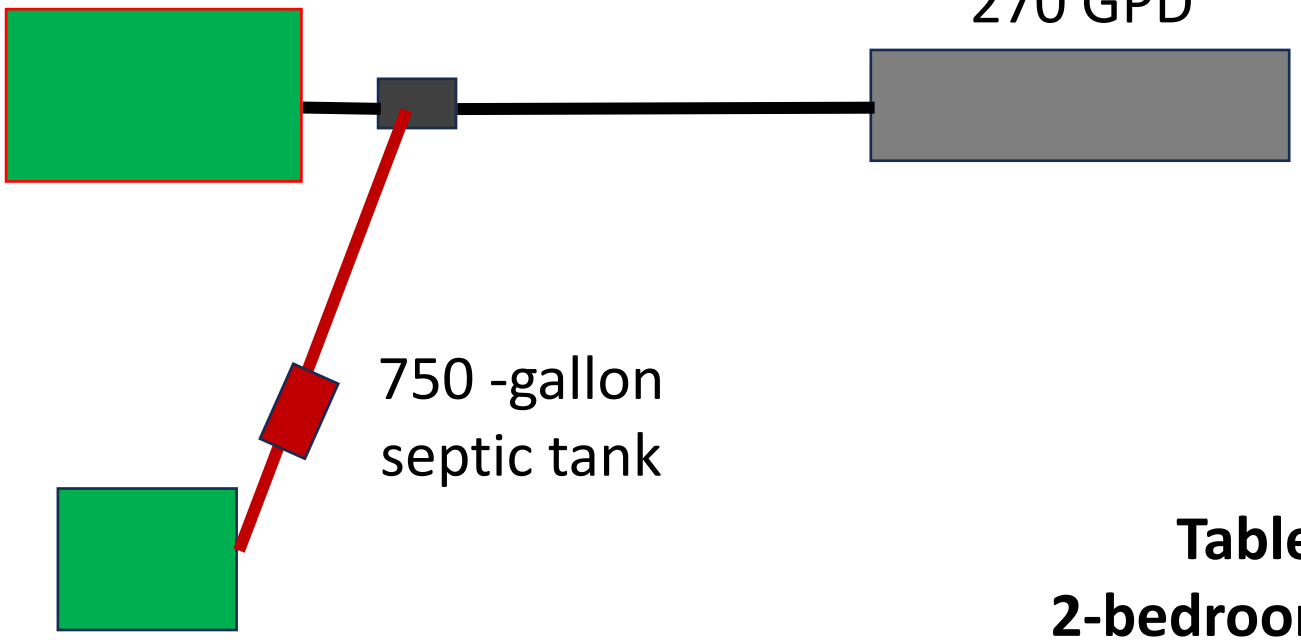
Permit Search Database

When searching the database remember that…

permits are old!

- Road names change
- Some permits predate 911 house numbering
- Houses will exist on roads before they've been named (searching *off nearby road* often works)
- Permits will often refer to federal or state road names (Route 1) over colloquial road names (Mill Street)

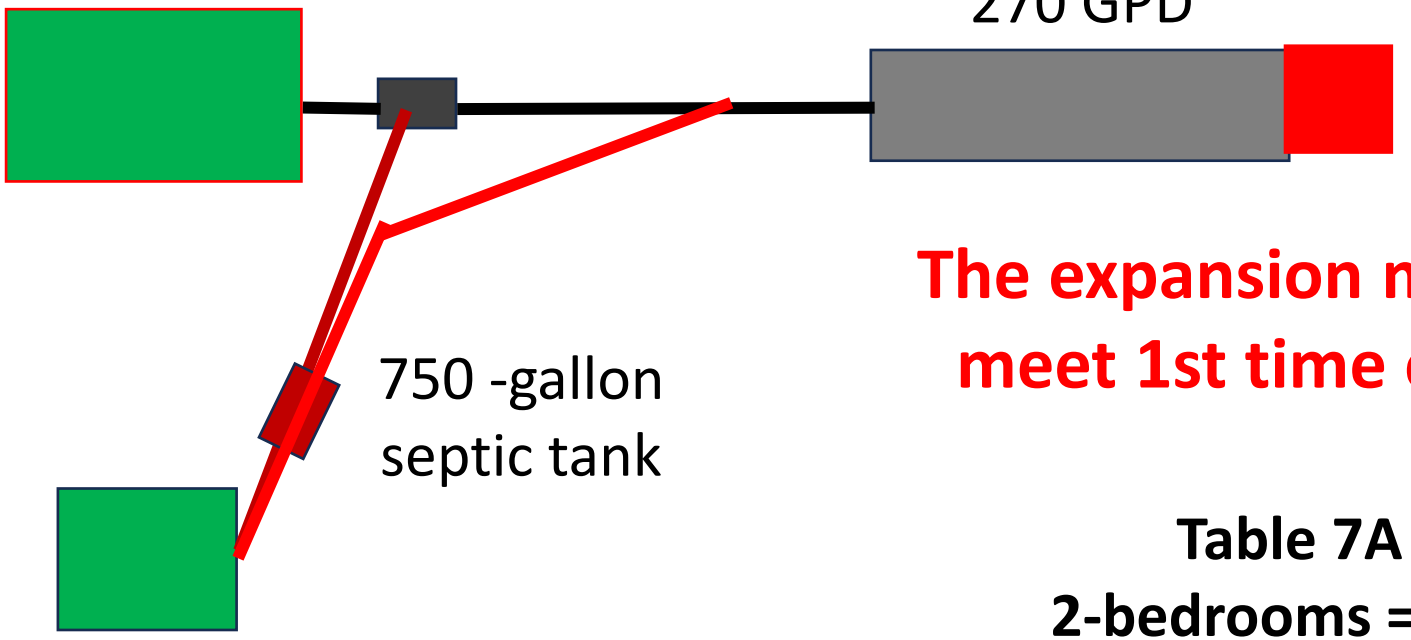
ADUs



ADU requires 1st time criteria
for min. 2-bedrooms

Table 7A
2-bedrooms = 750
3-4 bedrooms = 1,000

ADUs

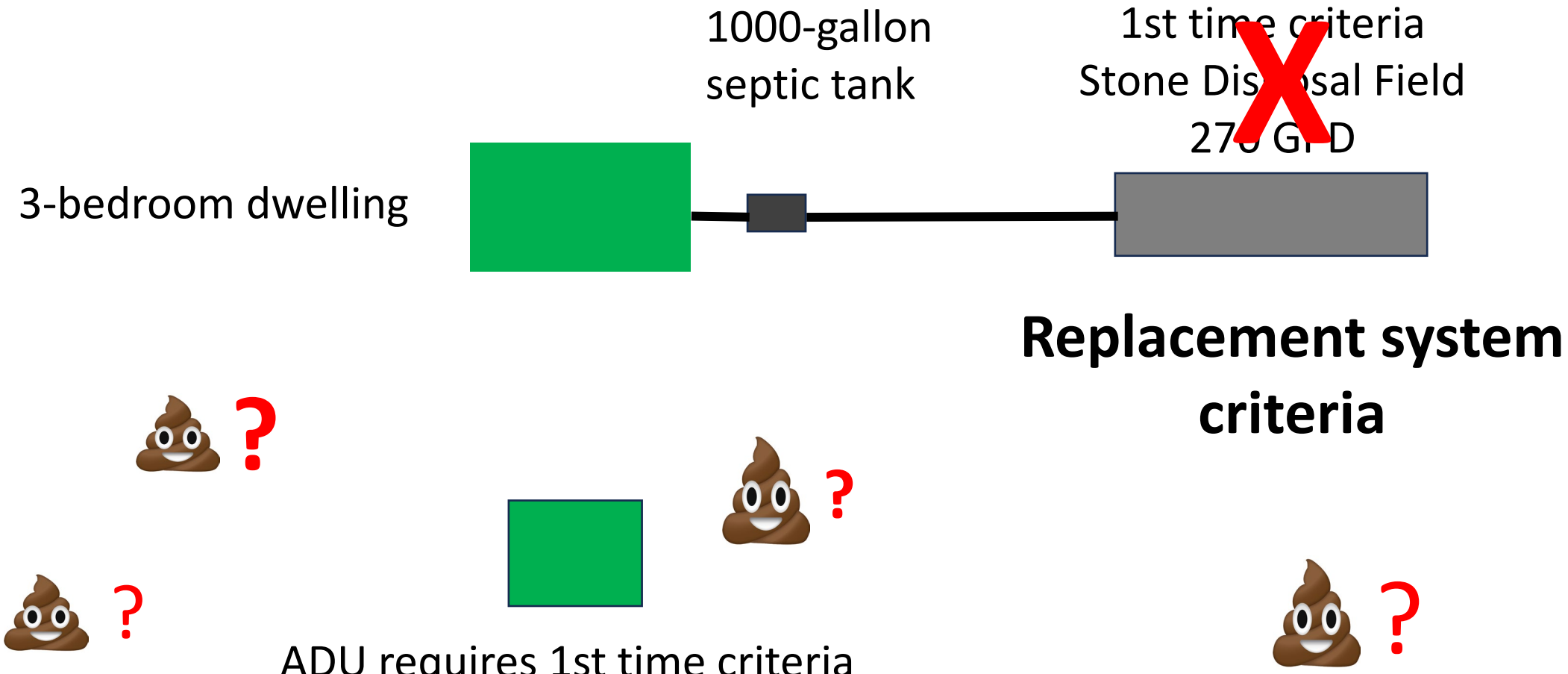


The expansion must still meet 1st time criteria

ADU requires 1st time criteria for min. 2-bedrooms

Table 7A
2-bedrooms = 750
3-4 bedrooms = 1,000

ADUs


1000-gallon
septic tank
1st time criteria
Stone Disposal Field
270 GPD
3-bedroom dwelling
Replacement system
criteria
ADU requires 1st time criteria
for min. 2-bedrooms

Private Water Supplies

IF A POTABLE WATER SUPPLY SETBACK IS THE ONLY THING THAT'S GETTING IN THE WAY...

TABLE 8A

Reduction in setbacks between a Private Potable Water Supply and a disposal field with a design flow of less than 1,000 gpd

Depth of well casing or liner seal below ground level	Reduction in the minimum 100 ft setback distance
40 feet	90 feet
55 feet	80 feet
70 feet	70 feet
90 feet	60 feet

setbacks to wells with jaswell-type seals

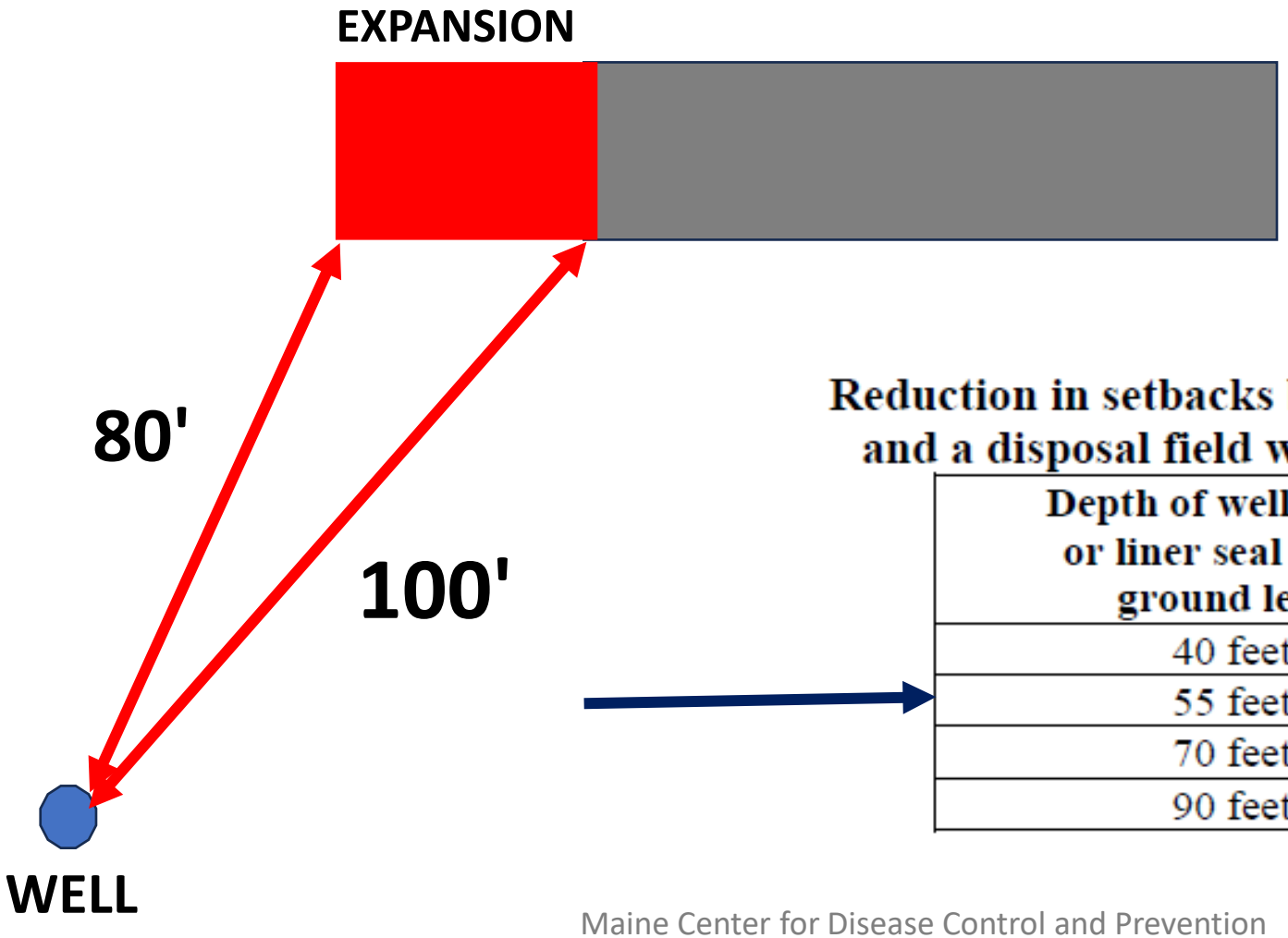


TABLE 8A

Reduction in setbacks between a Private Potable Water Supply and a disposal field with a design flow of less than 1,000 gpd

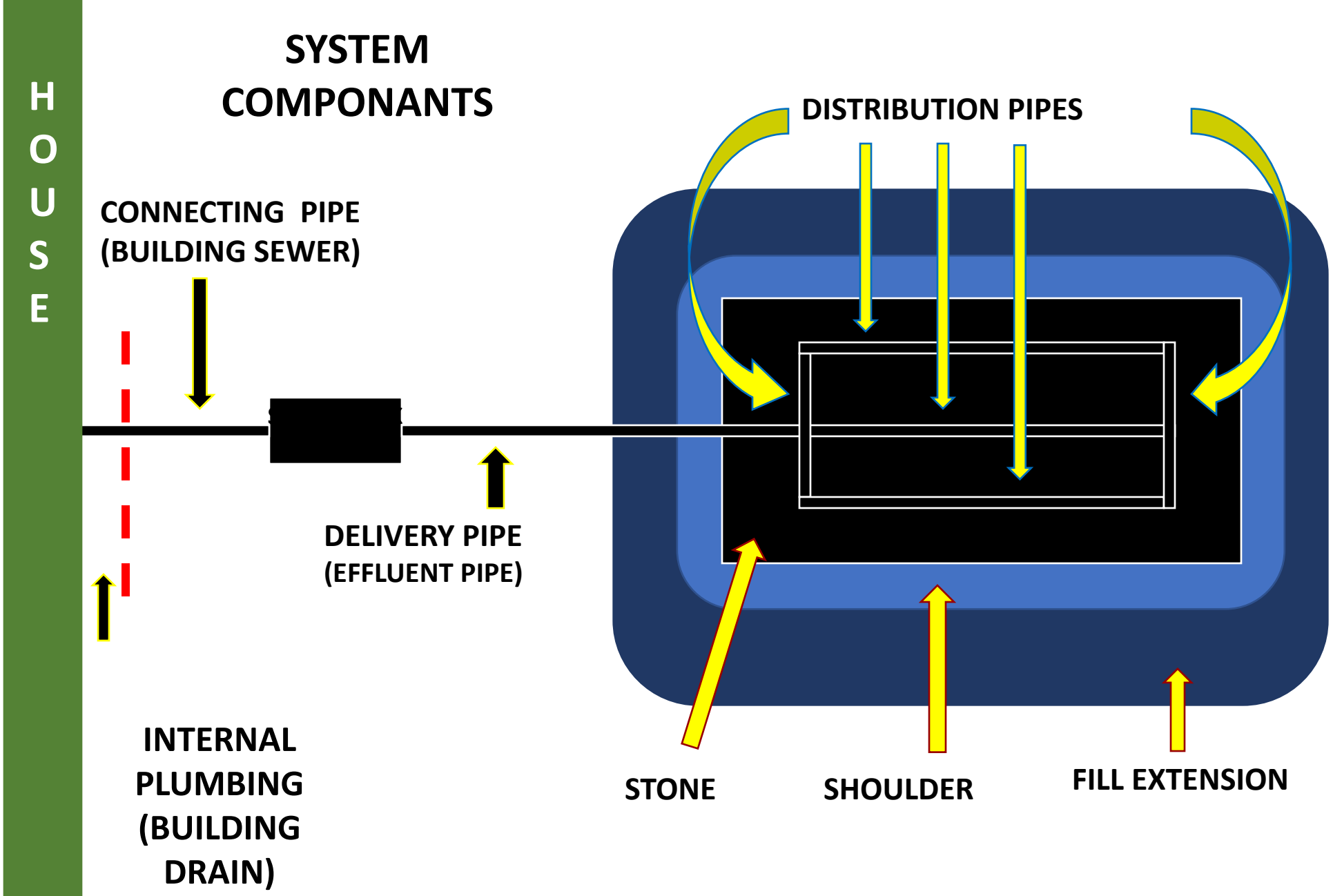
Depth of well casing or liner seal below ground level	Reduction in the minimum 100 ft setback distance
40 feet	90 feet
55 feet	80 feet
70 feet	70 feet
90 feet	60 feet

SECOND INSPECTION

Prior to covering the system:

The LPI must inspect the site after installation of the system components, including stone, pipes or proprietary devices, tanks, filter fabric, and fill beneath and beside of the disposal area, but before backfill is placed above the disposal system components. This inspection must include any curtain drains, diversion ditches, berms or other measures outlined on the design to improve the function of the system.

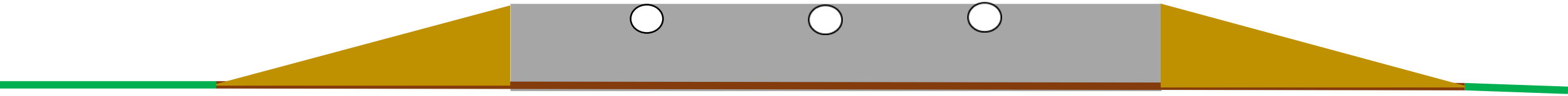
SYSTEM COMPONANTS



Prior to covering the system:

An inspection must be made after installation of the system components, including stone, pipes or proprietary devices, tanks, hay, filter fabric, and fill beneath and beside of the disposal area but before backfill is placed above the disposal system components. This inspection must include any curtain drains, diversion ditches, berms or other measures outlined on the design to improve the function of the system.

PRIOR TO COVERING THE SYSTEM MEANS BEFORE THE MINIMUM OF 4”OF BACKFILL AND 4” OF LOAM AMMENDED MIX IS PLACED ON TOP



Prior to covering the system:

An inspection must be made after installation of the system components, including stone, pipes or proprietary devices, tanks, hay, filter fabric, and fill beneath and beside of the disposal area but before backfill is placed above the disposal system components. This inspection must include any curtain drains, diversion ditches, berms or other measures outlined on the design to improve the function of the system.

THIS IS IN ORDER TO CHECK ELEVATIONS OF COMPONANTS, CLEANLINESS AND SIZE OF STONE AND BACKFILL SPECS OF EXTENSIONS AMONG OTHER THINGS WE WILL BE COVERING

Prior to covering the system:

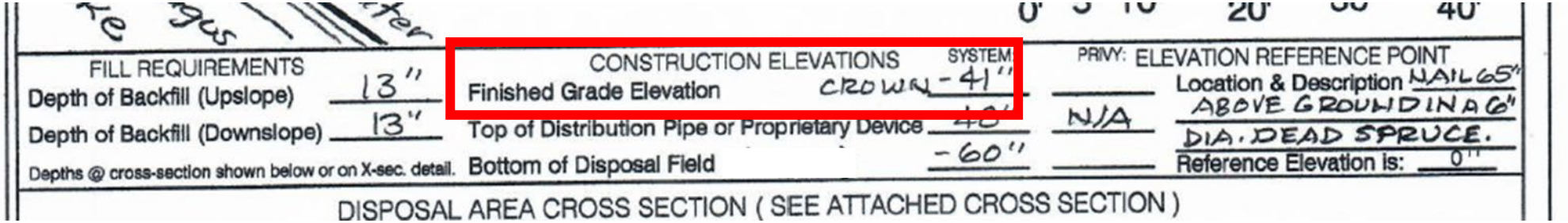
An inspection must be made after installation of the system components, including stone, pipes or proprietary devices, tanks, hay, filter fabric, and fill beneath and beside of the disposal area but before backfill is placed above the disposal system components. This inspection must include any curtain drains, diversion ditches, berms or other measures outlined on the design to improve the function of the system.

IF THE SITE DESIGN CALLS FOR MORE THAN THE MINIMUM OF 4” OF BACKFILL AND 4” OF LOAM, THE SYSTEM MUST BE INSPECTED ACCORDING TO THE DESIGN WHICH IS MORE STRINGENT THAN THE RULES

Prior to covering the system:

An inspection must be made after installation of the system components, including stone, pipes or proprietary devices, tanks, hay, filter fabric, and fill beneath and beside of the disposal area but before backfill is placed above the disposal system components. This inspection must include any curtain drains, diversion ditches, berms or other measures outlined on the design to improve the function of the system.

THIS INSPECTION ALSO INCLUDES CURTAIN DRAINS, DITCHES, BERMS OR ANY OTHER ITEM THAT IS OUTLINED IN THE SYSTEM DESIGN



FILL REQUIREMENTS
Depth of Backfill (Upslope) 13"
Depth of Backfill (Downslope) 13"
Depths @ cross-section shown below or on X-sec. detail.

CONSTRUCTION ELEVATIONS SYSTEM:
Finished Grade Elevation CROWN -41"
Top of Distribution Pipe or Proprietary Device -48"
Bottom of Disposal Field -60"

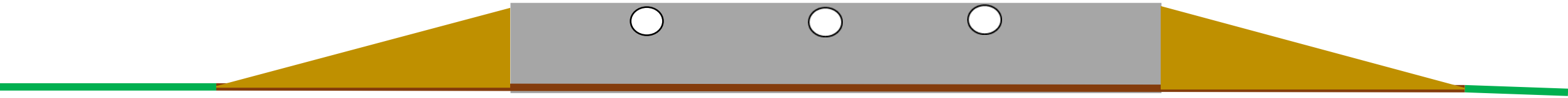
PRIVY: N/A

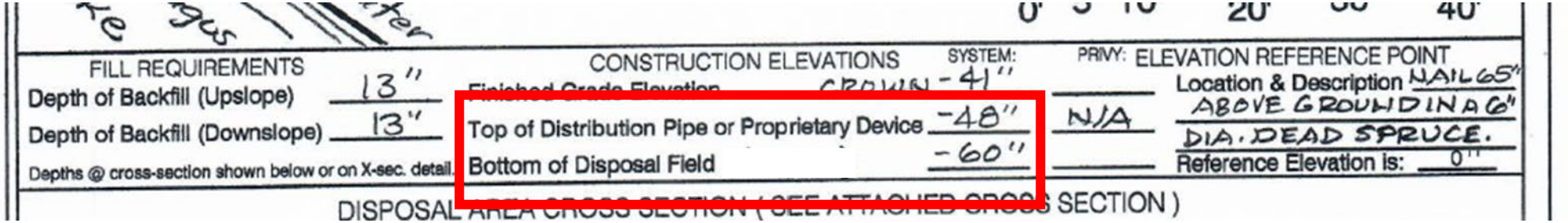
ELEVATION REFERENCE POINT
Location & Description NAIL 65" ABOVE GROUND IN A 6" DIA. DEAD SPRUCE.
Reference Elevation is: 0"

DISPOSAL AREA CROSS SECTION (SEE ATTACHED CROSS SECTION)

UNLESS YOU HAVE ADOPTED A LOCAL ORDINANCE FOR THREE INSPECTIONS, THE FINISH GRADE ELEVATION IS NOT PART OF THE TWO MADATORY INSPECTION.

EVEN SO, THE RULES STATE THAT THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION PER THE RULES AND DESIGN





FILL REQUIREMENTS
Depth of Backfill (Upslope) 13"
Depth of Backfill (Downslope) 13"
Depths @ cross-section shown below or on X-sec. detail.

CONSTRUCTION ELEVATIONS
SYSTEM:
PRIVY:
Finished Grade Elevation CROWN -41"
Top of Distribution Pipe or Proprietary Device -48" N/A
Bottom of Disposal Field -60"

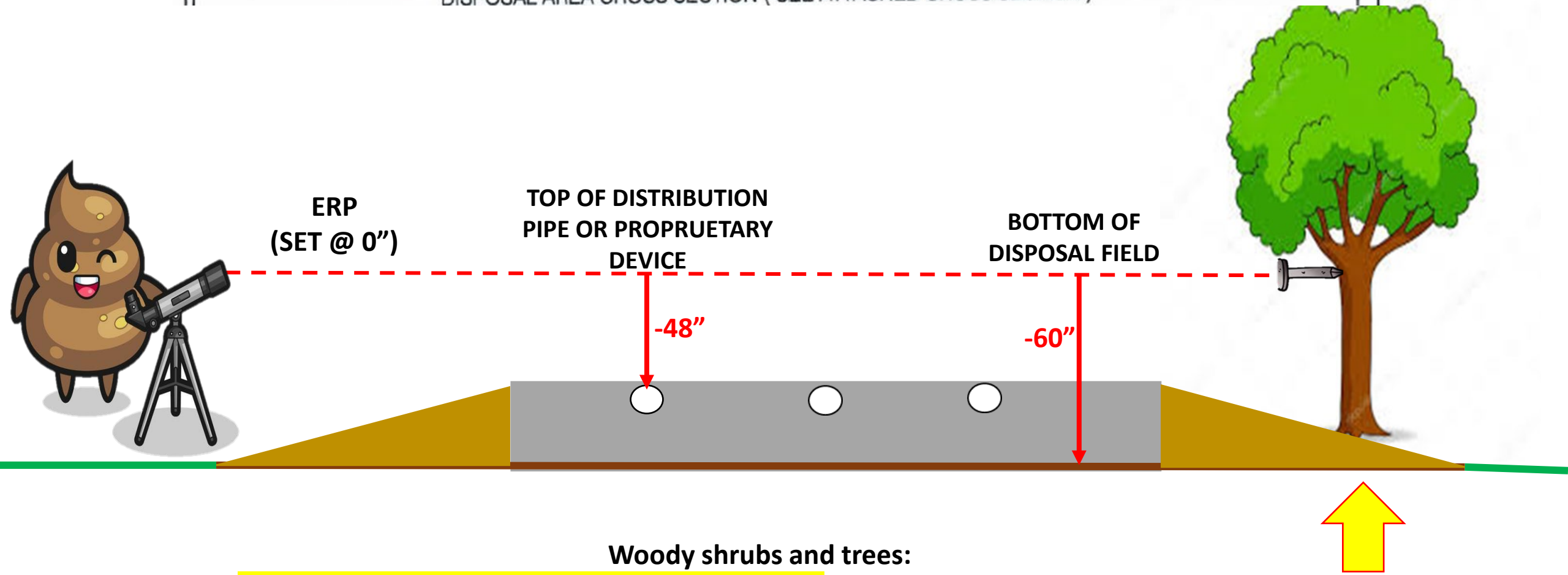
ELEVATION REFERENCE POINT
Location & Description NAIL 65" ABOVE GROUND IN A 6" DIA. DEAD SPRUCE.
Reference Elevation is: 0"

DISPOSAL AREA CROSS SECTION (SEE ATTACHED CROSS SECTION)

TOP OF PIPE OR PROPRIETARY DEVICE AND BOTTOM OF DISPOSAL FIELD ARE PART OF THE TWO MANDATORY INSPECTIONS

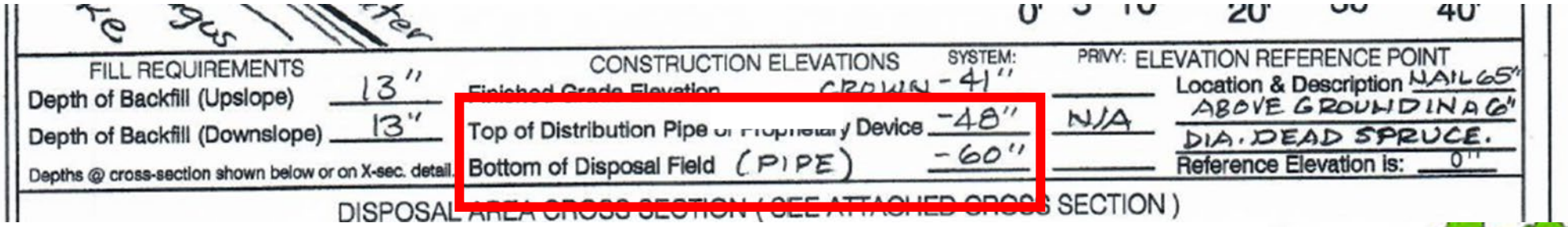
FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS	SYSTEM:	PRIVY:	ELEVATION REFERENCE POINT
Depth of Backfill (Upslope)	13"	Finished Grade Elevation	-41"		Location & Description NAIL 65" ABOVE GROUND IN A 6" DIA. DEAD SPRUCE.
Depth of Backfill (Downslope)	13"	Top of Distribution Pipe or Proprietary Device	-48"	N/A	
Depths @ cross-section shown below or on X-sec. detail.		Bottom of Disposal Field	-60"		Reference Elevation is: 0"

DISPOSAL AREA CROSS SECTION (SEE ATTACHED CROSS SECTION)



Woody shrubs and trees:

Woody shrubs or trees are unacceptable on disposal field surfaces. Woody shrubs may be used in conjunction with a hardy perennial ground cover on backfill material extensions only.

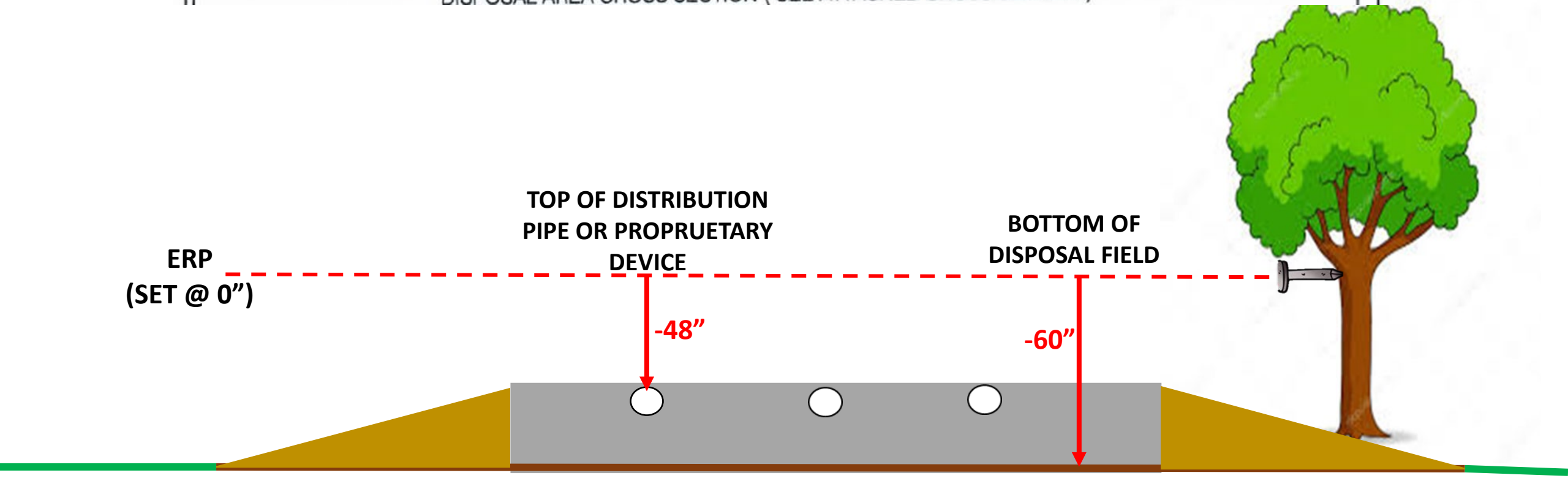


FILL REQUIREMENTS
Depth of Backfill (Upslope) 13"
Depth of Backfill (Downslope) 13"
Depths @ cross-section shown below or on X-sec. detail.

CONSTRUCTION ELEVATIONS SYSTEM: PRIVY:
Finished Grade Elevation CROWN -41"
Top of Distribution Pipe or Proprietary Device -48" N/A
Bottom of Disposal Field (PIPE) -60"

ELEVATION REFERENCE POINT
Location & Description NAIL 65" ABOVE GROUND IN A 6" DIA. DEAD SPRUCE.
Reference Elevation is: 0"

DISPOSAL AREA CROSS SECTION (SEE ATTACHED CROSS SECTION)



-48" FROM -60" IS 12" WHICH REFLECTS THE MINIMUM STONE THICKNESS IN A STONE DISPOSAL FIELD
IT IS REQUIRED THAT THE PIPE BE COVERED BY AT LEAST 1" OF STONE

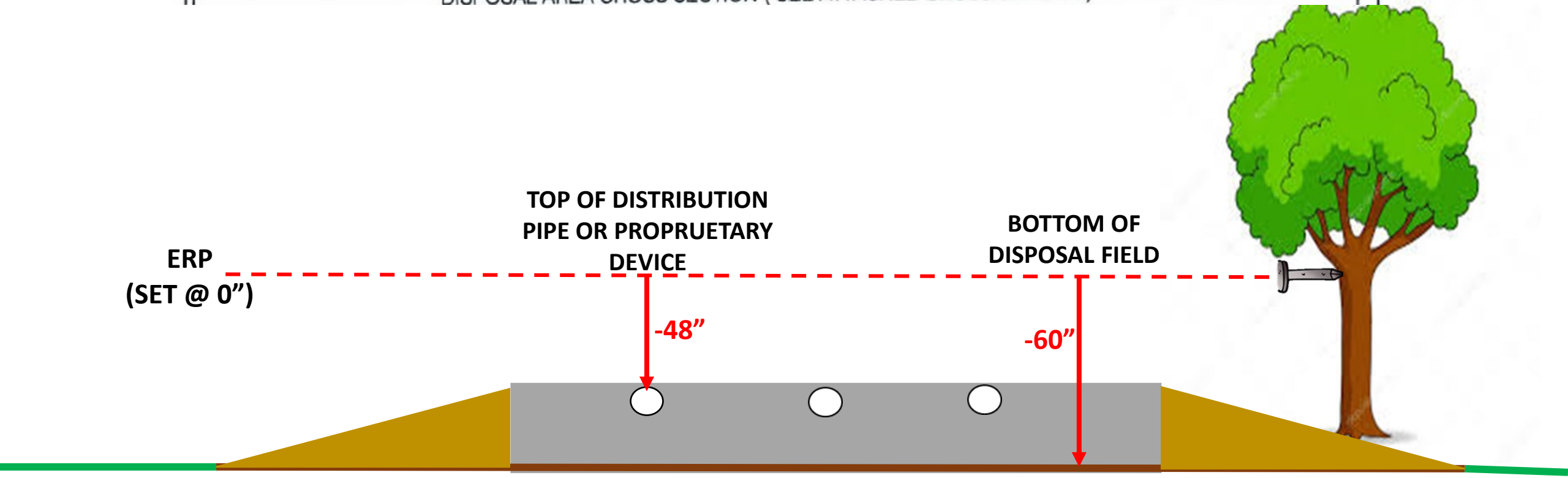
FILL REQUIREMENTS
Depth of Backfill (Upslope) 13"
Depth of Backfill (Downslope) 13"
Depths @ cross-section shown below or on X-sec. detail

CONSTRUCTION ELEVATIONS SYSTEM:
Finished Grade Elevation CROWN -41"
Top of Distribution Pipe or Proprietary Device -48"
Bottom of Disposal Field (PIPE) -60"

PRIVY: N/A

ELEVATION REFERENCE POINT
Location & Description NAIL 65" ABOVE GROUND IN A 6" DIA. DEAD SPRUCE.
Reference Elevation is: 0"

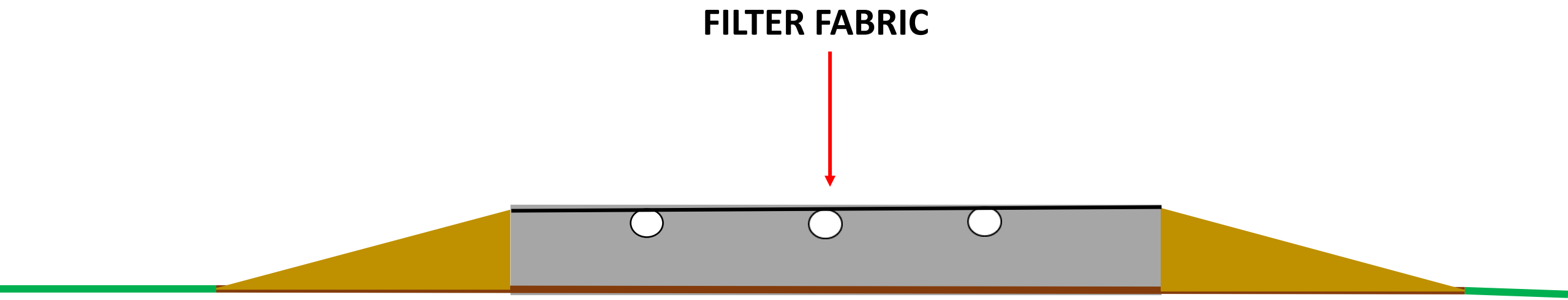
DISPOSAL AREA CROSS SECTION (SEE ATTACHED CROSS SECTION)



-48" FROM -60" IS 12" WHICH REFLECTS THE MINIMUM STONE THICKNESS IN A STONE DISPOSAL FIELD
IT IS REQUIRED THAT THE PIPE BE COVERED BY AT LEAST 1" OF STONE

FFILTER FABRIC

NO MORE HAY



COVER MATERIAL

THE INSTALLER IS RESPONSIBLE FOR:

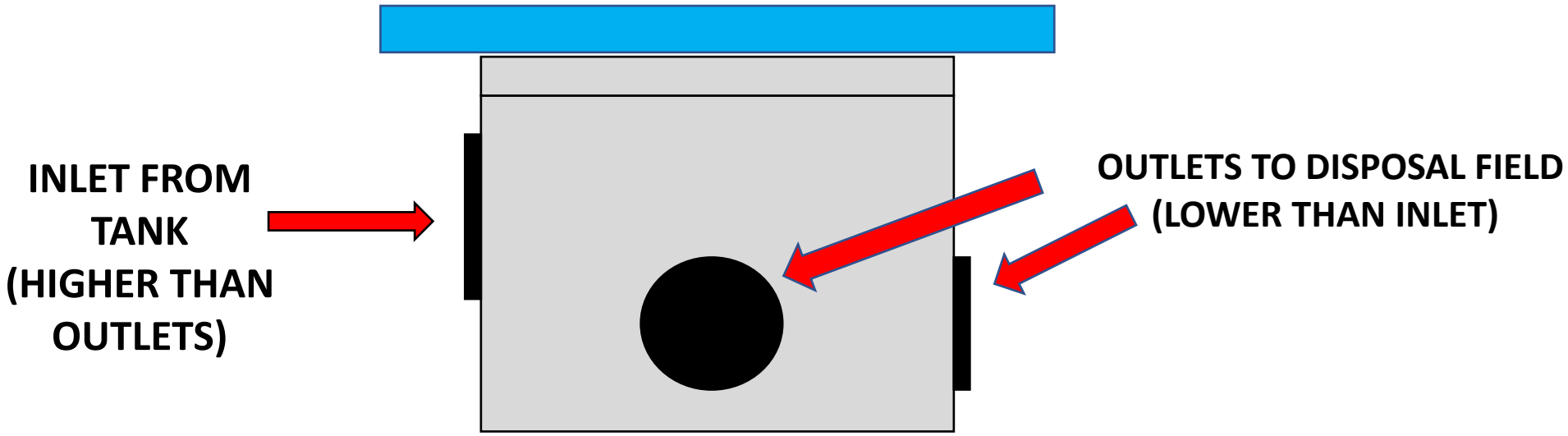
Construction: The installer of the system must make certain that the system and all its component parts are installed in conformance with the requirements of these Rules, the plan prepared by the site evaluator, and with any special engineering design requirements approved or required by the Department, pursuant to an approved variance.

Soil and backfill material: The installer of the system must make certain that the construction and installation are performed without adversely affecting the capacity of the soil or backfill material to adequately absorb or treat the septic tank effluent.

IF THE MINIMUM TWO INSPECTIONS ARE DONE AND NO ORDINANCE IS IN PLACE TO DO A THIRD INSPECTION
(LOAM, GRASS, SEED, 3% CROWN IN THE MIDDLE OF THE DISOSAL AREA FOR WATER RUNNOFF)
THE STATEMENT IN THE RULES ABOVE MAKES SURE IF THIS IS NOT COMPLETED, THE INSTALLER IS RESPONSIBLE.

THIS WOULD BE FOUND IF A MALFUNCTION OCCURS AND THE FIELD IS DUG UP TO FIND OUT WHY

DISTRIBUTION BOXES



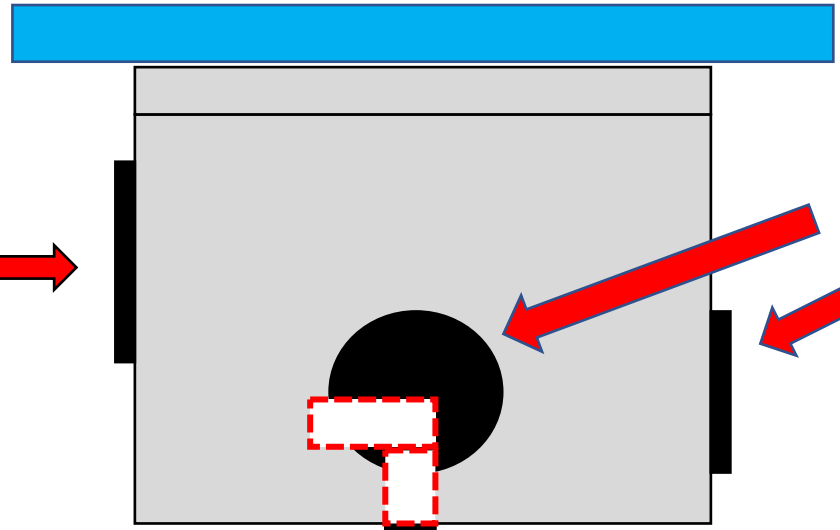
1) INLET MUST BE HIGHER THAN OUTLETS

2) “D” BOXES MUST BE LEVEL

3) SHOULD BE INSTALLED DIRECTLY ON THE DISPOSAL FIELD STONE TO MINIMIZE FROST DISTURBANCE

4) PROTECTED BY A MINIMUM OF 2 INCHES OF HIGH DENSITY EXPANDED RIGID POLYSTYRENE

DISTRIBUTION BOXES



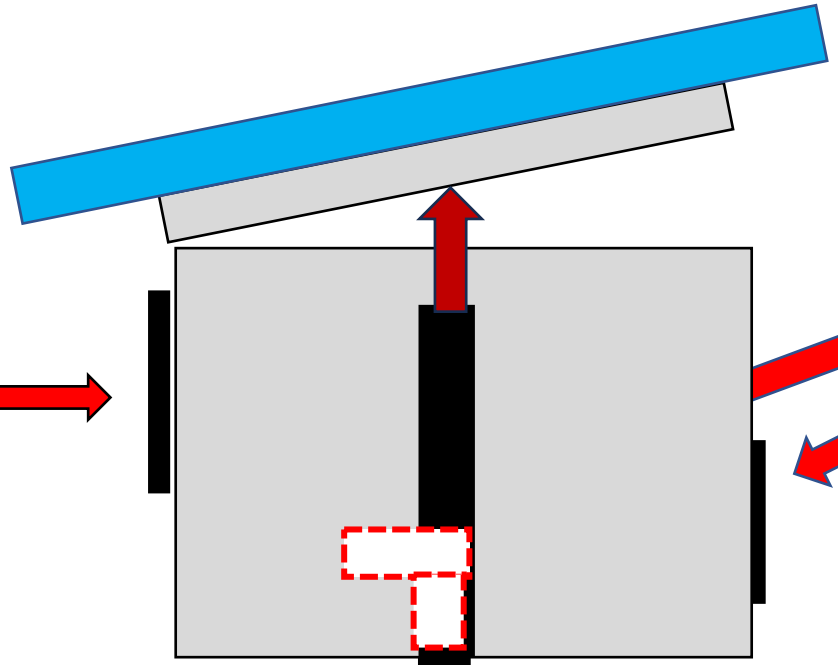
INLET FROM TANK (HIGHER THAN OUTLETS)

OUTLETS TO DISPOSAL FIELD (LOWER THAN INLET)

FROM A PUMP TO A “D” BOX, THE PUMP LINE NORMALLY COMES UP FROM THE BOTTOM OF THE “D” BOX WITH A 90 TO DEFLECT EFFLUENT FROM SPRAYING ONTO THE COVER AND CREATING LEAKS BETWEEN THE COVER AND THE BOX

THE INLET SIDE STAYS PLUGGED WHILE THE OUTLETS STILL GO TO THE DISPOSAL FIELD

DISTRIBUTION BOXES



INLET FROM TANK (HIGHER THAN OUTLETS)

OUTLETS TO DISPOSAL FIELD (LOWER THAN INLET)

FROM A PUMP TO A “D” BOX, THE PUMP LINE NORMALLY COMES UP FROM THE BOTTOM OF THE “D” BOX WITH A 90 TO DEFLECT EFFLUENT FROM SPRAYING ONTO THE COVER AND CREATING LEAKS BETWEEN THE COVER AND THE BOX

THE INLET SIDE STAYS PLUGGED WHILE THE OUTLETS STILL GO TO THE DISPOSAL FIELD

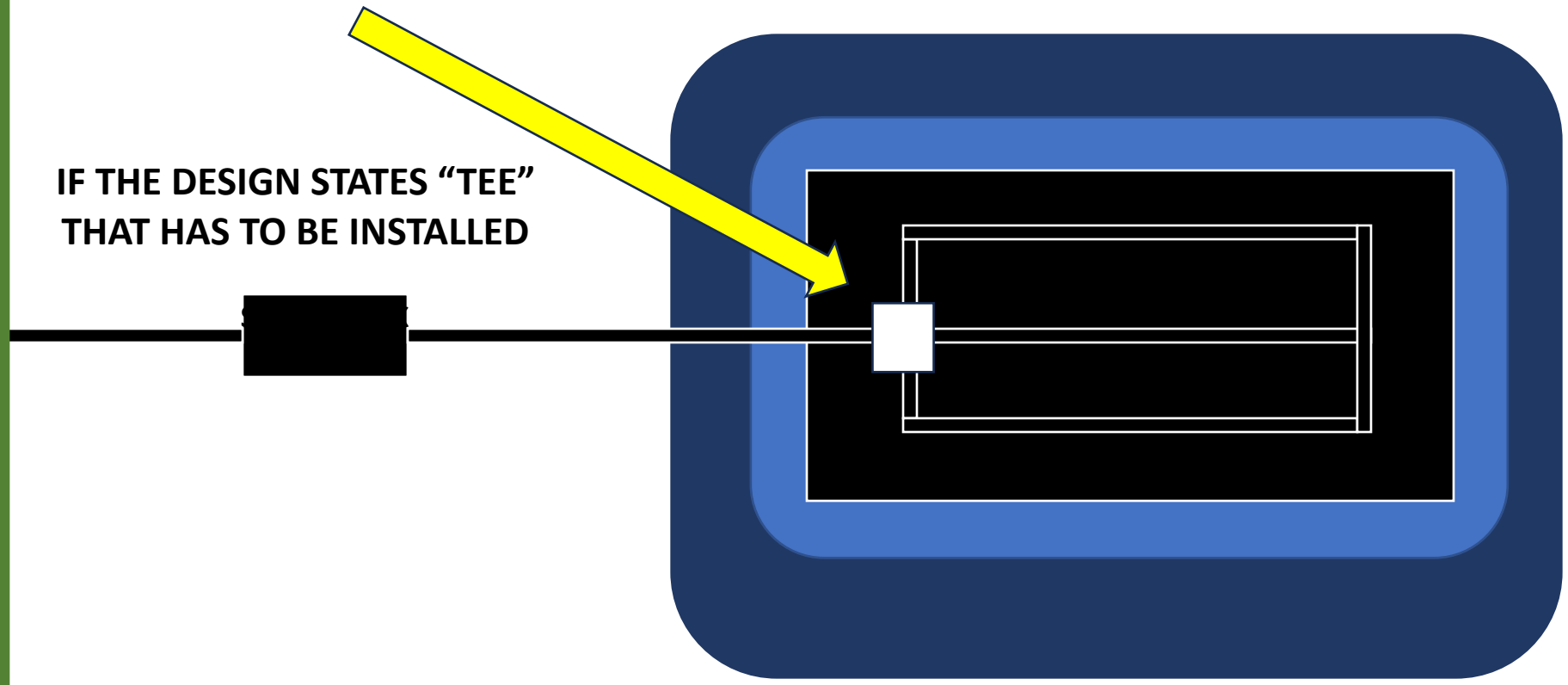
D BOX

Maine Center for Disease Control and Prevention

HOUSE

IF THE DESIGN STATES –BOX
IT HAS TO BE INSTALLED

IF THE DESIGN STATES “TEE”
THAT HAS TO BE INSTALLED



IF THE DESIGN STATES D-BOX OR “TEE”, THE INSTALLER HAS A CHOICE

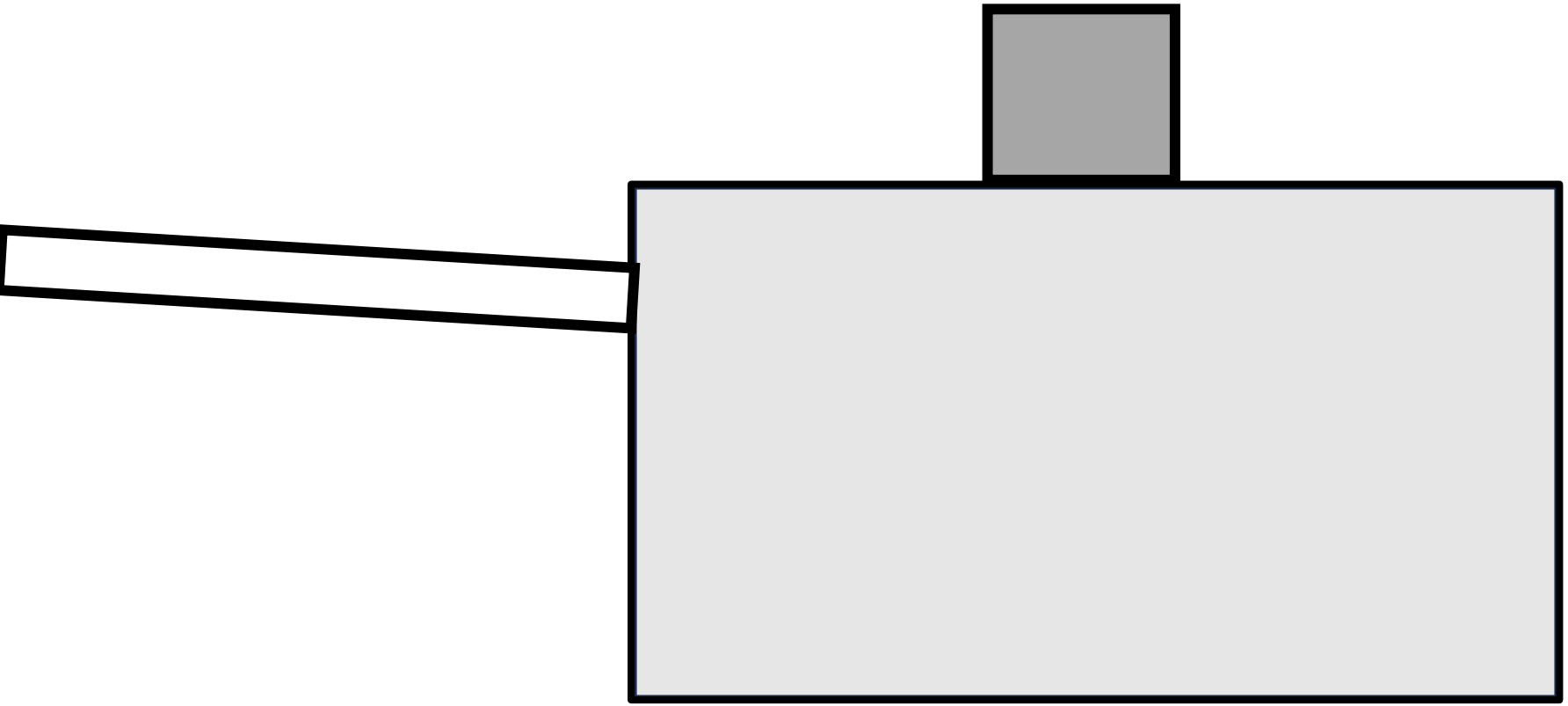
D-BOX

Maine Center for Disease Control and Prevention

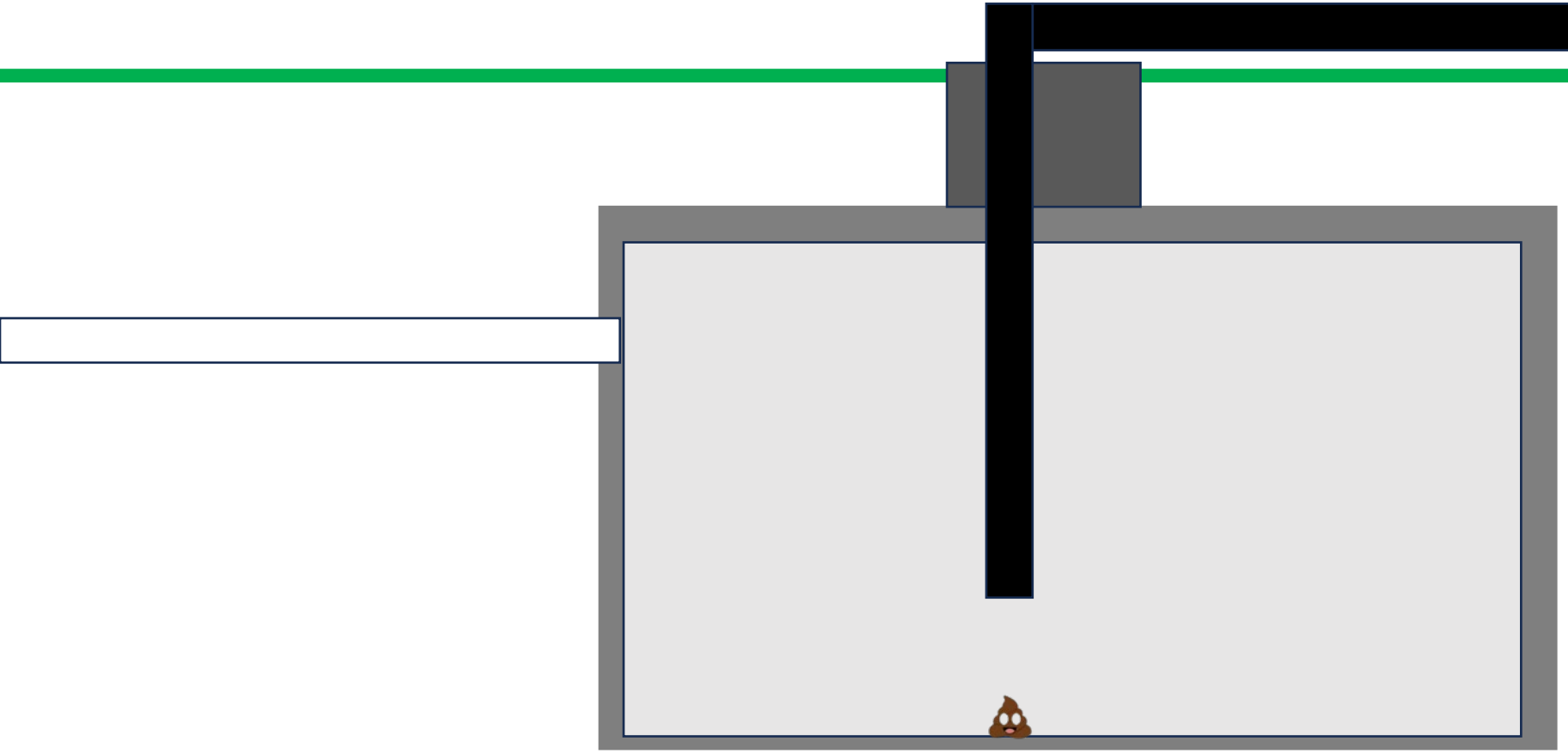
YOUR SECOND INSPECTION IS NOW CONCLUDED

HOLDING TANKS

HOLDING TANKS



HOLDING TANKS



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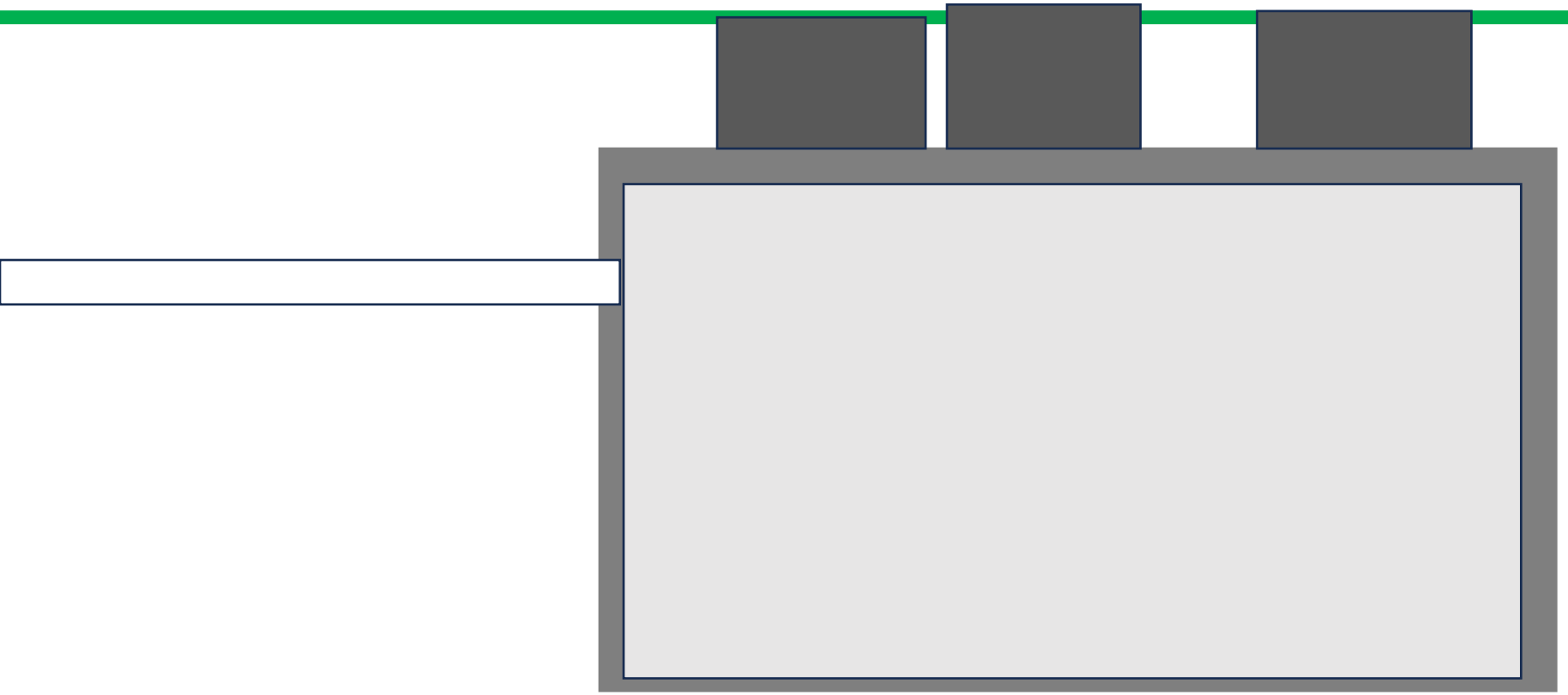
HOLDING / SEPTIC TANKS



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HOLDING TANKS

Holding tanks are allowed for first-time systems under limited conditions, pursuant to Sections 8(C)(4), 8(C)(5), and 8(C)(6), and are subject to the following provisions:

Annual pumping required: Every holding tank must be pumped at least once per year, if the system has been used at all during that year

Holding tanks may not be used as a first-time system located within the shoreland zoned area of major water courses.

Installation: Holding tanks must be installed in accordance with Section 8.

HOLDING TANKS

Setbacks: Must meet the setback requirements for treatment tanks.

Alarm provisions: The holding tank must have visual and audible alarm devices to assure the tank is always pumped before it is full.

Discontinuance of Holding Tank:
Any structure which utilizes a permanent holding tank permitted after July 1, 1974, as a first-time system, is required to meet first-time criteria for alternate means of subsurface wastewater disposal.

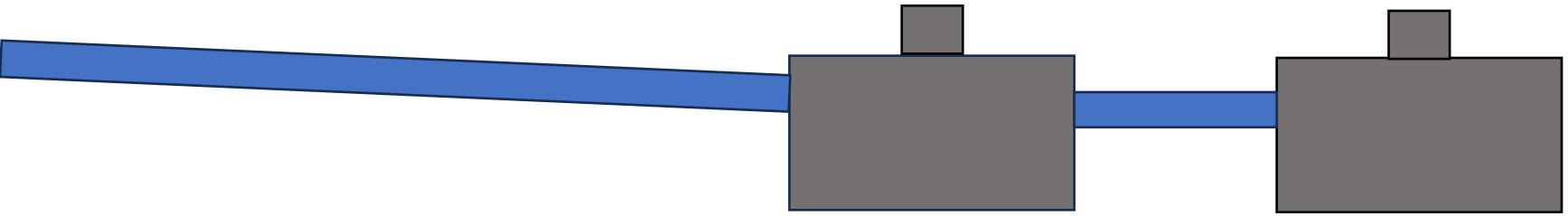
HOLDING TANKS

Number and size of holding tanks:

The installation must have a minimum capacity of at least 7 times the daily flow, but not less than 1,000 gallons. Multiple tanks must be installed in series.

3-BEDROOMS = **270 GPD**

270 X 7 = 1,890



HOLDING TANKS

Discontinuance of Holding Tank:

Any structure which utilizes a permanent holding tank permitted after July 1, 1974, as a first-time system, is required to meet first-time criteria for alternate means of subsurface wastewater disposal.

HOLDING TANKS

Maine Center for Disease Control and Prevention

SEASONAL CONVERSION

Seasonal conversion permit

means a written authorization issued by the LPI to allow the conversion of a seasonal dwelling unit located in a shoreland area of major waterbodies/courses to year-round use.

SEASONAL CONVERSION

Seasonal conversion permit

$50.00

$12.50

SEASONAL CONVERSION

A seasonal conversion permit is required before converting a seasonal dwelling into a year-round or principal dwelling, whenever a subsurface wastewater system is located in the shoreland zone. A seasonal conversion permit must be obtained from the LPI (as required by 30-A MRS § 4215(2)).

SEASONAL CONVERSION

Holding tanks prohibited:

A seasonal conversion permit may not be approved if a holding tank is used as a means of waste water disposal or storage. (30-A MRS. § 4215 (2)).

SEASONAL CONVERSION

The LPI is authorized to issue a permit for conversion of a seasonal dwelling to a year-round or principal dwelling if one of the following requirements is met:

SEASONAL CONVERSION

Existing legal system:

A subsurface waste water disposal application exists, showing that the dwelling's system meets replacement system criteria at the time of application, and applicable municipal ordinances. The system must have been installed with the required permit and a certificate of approval must have been issued;

SEASONAL CONVERSION

Legal replacement system:

A replacement for an existing onsite wastewater disposal system has been installed, so that it complies with Section 9 and applicable municipal ordinances; or

Public sewer available:

The dwelling unit’s waste water is connected to an approved sanitary sewer system.

100 DOWN TO 60

9(F) WORK ADJACENT TO OR WITHIN WETLANDS AND WATER BODIES (cont.)

TABLE 9A
Setback Distances for Replacement System, Limits of LPI Authority

Site features vs. disposal system components of various sizes	Disposal Fields (total design flow)			Septic Tanks and Holding Tanks (total design flow)		
	Less than 1,000 gpd	1,000 to 1,999 gpd	2,000 gpd or over	Less than 1,000 gpd	1,000 to 1,999 gpd	2,000 gpd or over
Wells with water usage of 2,000 or	300 feet	300 feet	300 feet	150 feet	150 feet	150 feet
Potable supply well	100 down to 60 feet	200 down to 100 feet	300 down to 150 feet	50 down to 25 feet [a]	100 down to 50 feet [a]	100 down to 50 feet
Water supply line	10 feet	20 feet	25 feet	10 feet	10 feet	10 feet
Water course, major [c]	100 down to 50 feet	200 down to 120 feet	300 down to 180 feet	100 down to 25 feet [a]	100 down to 50 feet	100 down to 50 feet
Water course, minor [c]	50 down to 25 feet	100 down to 50 feet	150 down to 75 feet	50 down to 25 feet	50 down to 25 feet	50 down to 25 feet
Drainage ditches	25 down to 12 feet	50 down to 25 feet	75 down to 35 feet	25 down to 12 feet	25 down to 12 feet	25 down to 12 feet
Slopes greater than 3:1	10 feet	18 feet	25 feet	N/A	N/A	N/A
No full basement [e.g. slab, columns, posts]	15 down to 7 feet	30 down to 15 feet	40 down to 20 feet	8 down to 5 feet	14 down to 7 feet	20 down to 10 feet
Full basement [below grade foundation, frost wall]	20 down to 10 feet	30 down to 15 feet	40 down to 20 feet	8 down to 5 feet	14 down to 7 feet	20 down to 10 feet
Property lines	10 down to 5 feet [b]	18 down to 9 feet [b]	20 ft down to 10 ft [b]	10 down to 4 feet [b]	15 down to 7 feet [b]	20 down to 10 feet [b]
Burial sites or graveyard boundaries, measured from the toe of the fill extension	25 feet	25 feet	25 feet	25 feet	25 feet	25 feet
Stormwater infiltration systems	100 down to 60 feet	200 down to 120 feet	300 down to 180 feet	100 down to 50 feet	100 down to 50 feet	100 down to 50 feet
Wetponds, retention ponds, and detention basins (excavated below grade); Soil filters, underdrained swales, underdrained outlets, and similar structures	50 down to 25 feet [d]	100 down to 50 feet [d]	150 down to 75 feet [d]	50 down to 25 feet [d]	50 down to 25 feet [d]	50 down to 25 feet [d]
Stormwater detention basins (basin bottom at, or above, predevelopment grade)	25 down to 12 feet	50 down to 25 feet [d]	75 down to 35 feet [d]	25 down to 12 feet	25 down to 12 feet	25 down to 12 feet

Notes:

[a] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the LPI's presence and shown to be watertight pursuant to water tightness standards found in Section 7(H)(8) or of monolithic construction.

[b] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.

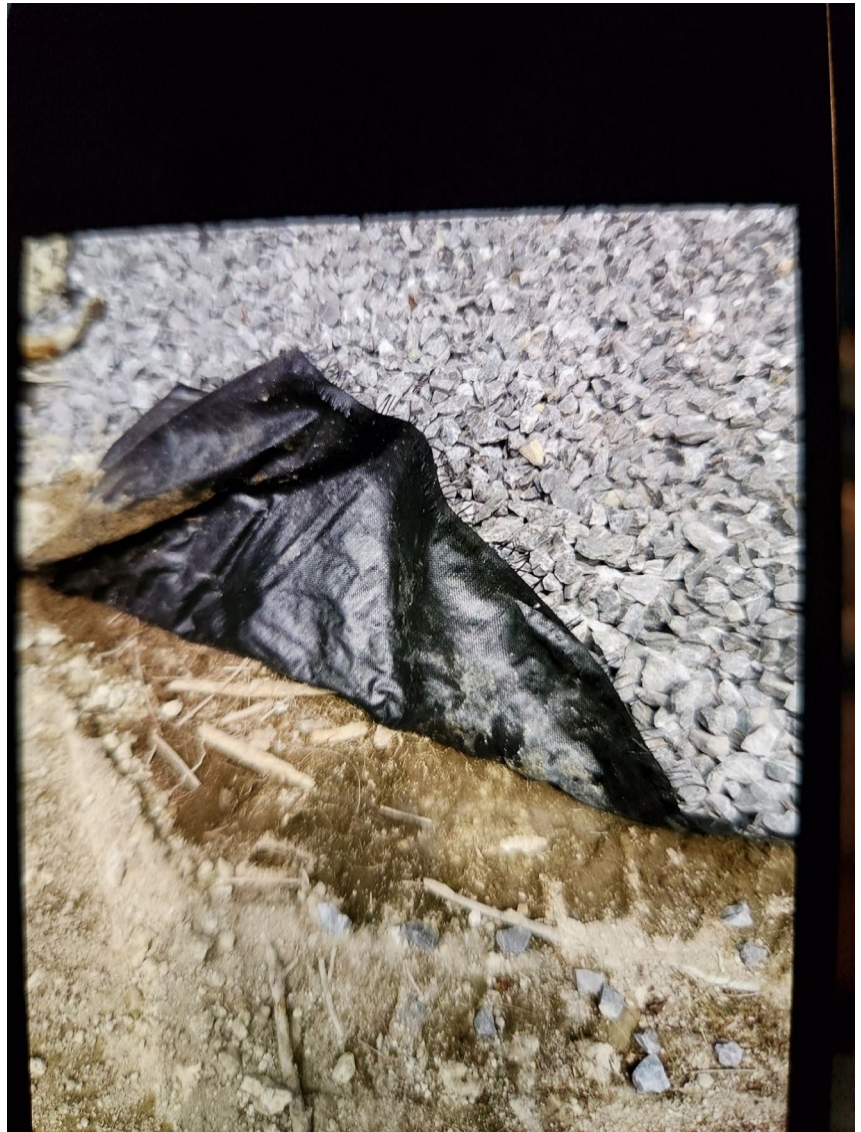
[c] All ground disturbance or clearing of woody vegetation necessary for the installation of a subsurface wastewater disposal system that occurs within 100 feet of the normal high water mark of a major or minor water body/course must comply with this rule pertaining to work adjacent to or within wetlands and water bodies (for more details, see Section 13).

[d] The reduced setback distance may be further reduced down to 12 feet if the stormwater structure has an impervious liner and the fill extensions do not encroach onto the stormwater structure.

MALFUNCTIONS

MALFUNCTIONS

MALFUNCTIONS



MALFUNCTIONS

Maine Center for Disease Control and Prevention

MALFUNCTIONS

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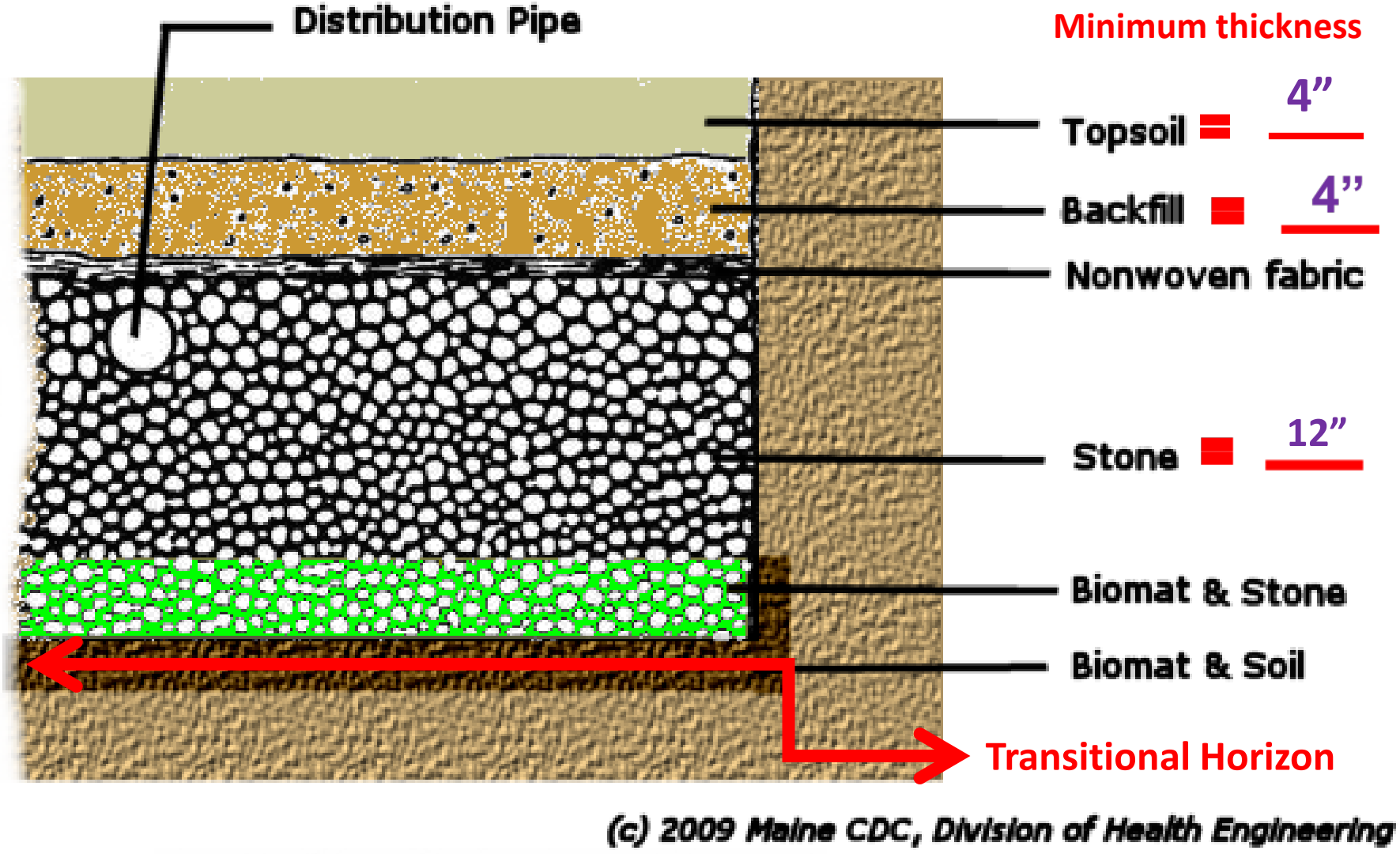
Maine Center for Disease Control and Prevention

DRIVE BY INSPECTIONS


Distribution Pipe
Minimum thickness
Topsoil
4”
Backfill
4”
Nonwoven fabric
Stone
12”
Biomat & Stone
Biomat & Soil
Transitional Horizon
(c) 2009 Maine CDC, Division of Health Engineering


2016/05/11 09:52


05/18/2022 11:50

THE END

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GET YOURS NOW WHILE THEY LAST!!!

Questions?

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