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

City, Town or Plantation	Orland
Street or Road	Winkumpaugh Corners
Subdivision, Lot #	Lot 7

OWNER/APPLICANT INFORMATION

Name (last, first, MI): Three Guys LLC Me. ■ Owner ☐ Applicant

Mailing Address of Owner/Applicant: 21 Alexis Rd. Ellsworth, Me. 04605

Daytime Tel. #: 207 521 4699

OWNER OR APPLICANT STATEMENT
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

Signature of Owner or Applicant — Date: 5/16/25

>> CAUTION: LPI APPROVAL REQUIRED <<

Town/City: Orland Permit #: 25-11

Date Permit Issued: 05/06/25 Fee: $ 327.50 Double Fee Charged ☐

Local Plumbing Inspector Signature — LPI #: 1219

☐ Owner ☐ Town ☐ State

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

Municipal Tax Map #: 12 Lot #: 10-7

CAUTION: INSPECTION REQUIRED
I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application

(1st) date approved

Local Plumbing Inspector Signature — (2nd) date approved

PERMIT INFORMATION

TYPE OF APPLICATION
■ 1. First Time System
☐ 2. Replacement System
Type replaced: _____
Year installed: _____
☐ 3. Expanded System
☐ a. <25% Expansion
☐ b. >= 25% Expansion
☐ 4. Experimental System
☐ 5. Seasonal Conversion

THIS APPLICATION REQUIRES
■ 1. No Rule Variance
☐ 2. First Time System Variance
☐ a. Local Plumbing Inspector Approval
☐ b. State & Local Plumbing Inspector
☐ 3. Replacement System Variance
☐ a. Local Plumbing Inspector Approval
☐ b. State & Local Plumbing Inspector
☐ 4. Minimum Lot Size Variance
☐ 5. Seasonal Conversion Permit

DISPOSAL SYSTEM COMPONENTS
■ 1. Complete Non-engineered System
☐ 2. Primitive System (graywater & alt. toilet)
☐ 3. Alternative Toilet, specify _____
☐ 4. Non-engineered Treatment Tank (only)
☐ 5. Holding Tank, _____ gallons
☐ 6. Non-engineered Disposal Field (only)
☐ 7. Separated Laundry System
☐ 8. Complete Engineered System (2000 gpd or more)
☐ 9. Engineered Treatment Tank (only)
☐ 10. Engineered Disposal Field (only)
☐ 11. Pre-treatment, specify _____
■ 12. Miscellaneous Components: Effluent Filter

SIZE OF PROPERTY
1.18(+ -) ☐ SQ. FT. ■ ACRES

SHORELAND ZONING
■ Yes ☐ No

DISPOSAL SYSTEM TO SERVE
■ 1. Single Family Dwelling Unit, No. of Bedrooms: 3
☐ 2. Multiple Family Dwelling, No. of Units: _____
☐ 3. Other _____ (specify)
Current Use: ☐ Seasonal ☐ Year Round ■ Undeveloped

TYPE OF WATER SUPPLY
■ 1. Drilled Well ☐ 2. Dug Well ☐ 3. Private
☐ 4. Public ☐ 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
■ 1. Concrete
☐ a. Regular
■ b. Low Profile
☐ 2. Plastic
☐ 3. Other _____
CAPACITY: 1,000 GAL

DISPOSAL FIELD TYPE & SIZE
■ 1. Stone Bed ☐ 2. Stone Trench
☐ 3. Proprietary Device
☐ a. cluster array ☐ c. Linear
☐ b. regular load ☐ d. H-20 load
☐ 4. Other _____
SIZE: 900 ■ sq. ft ☐ lin. ft.

GARBAGE DISPOSAL UNIT
■ 1. No ☐ 2. Yes ☐ 3. Maybe
if Yes or Maybe specify one below
☐ a. multi-compartment tank
☐ b. ___ tanks in series
☐ c. increase in tank capacity
☐ d. Filter on Tank Outlet

DESIGN FLOW
273 gallons per day
BASED ON
■ 1. Table 5A (dwelling unit(s))
☐ 2. Table 5C (other facilities)
SHOW CALCULATIONS
— for other facilities —
See pg. 4 notes
☐ 3. Section 5G (meter readings)
ATTACH WATER METER DATA

SOIL DATA
PROFILE: 2 CONDITION: AIII
at Observation Hole #: TP-1
Depth: 29 "
of Most Limiting Soil Factor: Bedrock

DISPOSAL FIELD SIZING
☐ 1. Medium---2.6 sq. ft. / gpd
■ 2. Medium---Large 3.3 sq. f.t / gpd
☐ 3. Large---4.1 sq. ft. / gpd
☐ 4. Extra Large---5.0 sq. ft. / gpd

EFFLUENT/EJECTOR PUMP
■ 1. Not Required
☐ 2. May Be Required
☐ 3. Required
Specify only for engineered systems
DOSE _____ gallons

LATITUDE AND LONGITUDE
at center of disposal area
Lat. 44 d 37 m 34 s
Lon. 68 d 37 m 43 s
if g.p.s. state margin of error: 20'

SITE EVALUATOR STATEMENT

I certify that on 8/30/24 (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).

Site Evaluator Signature	SE #	Date
Marc Swartz	438	9/12/24

Site Evaluator Name Printed	Telephone Number	Email Address
Marc Swartz	207 949 6832	marc.r.swartz@proton.me

Designed with SeptiCAD v5

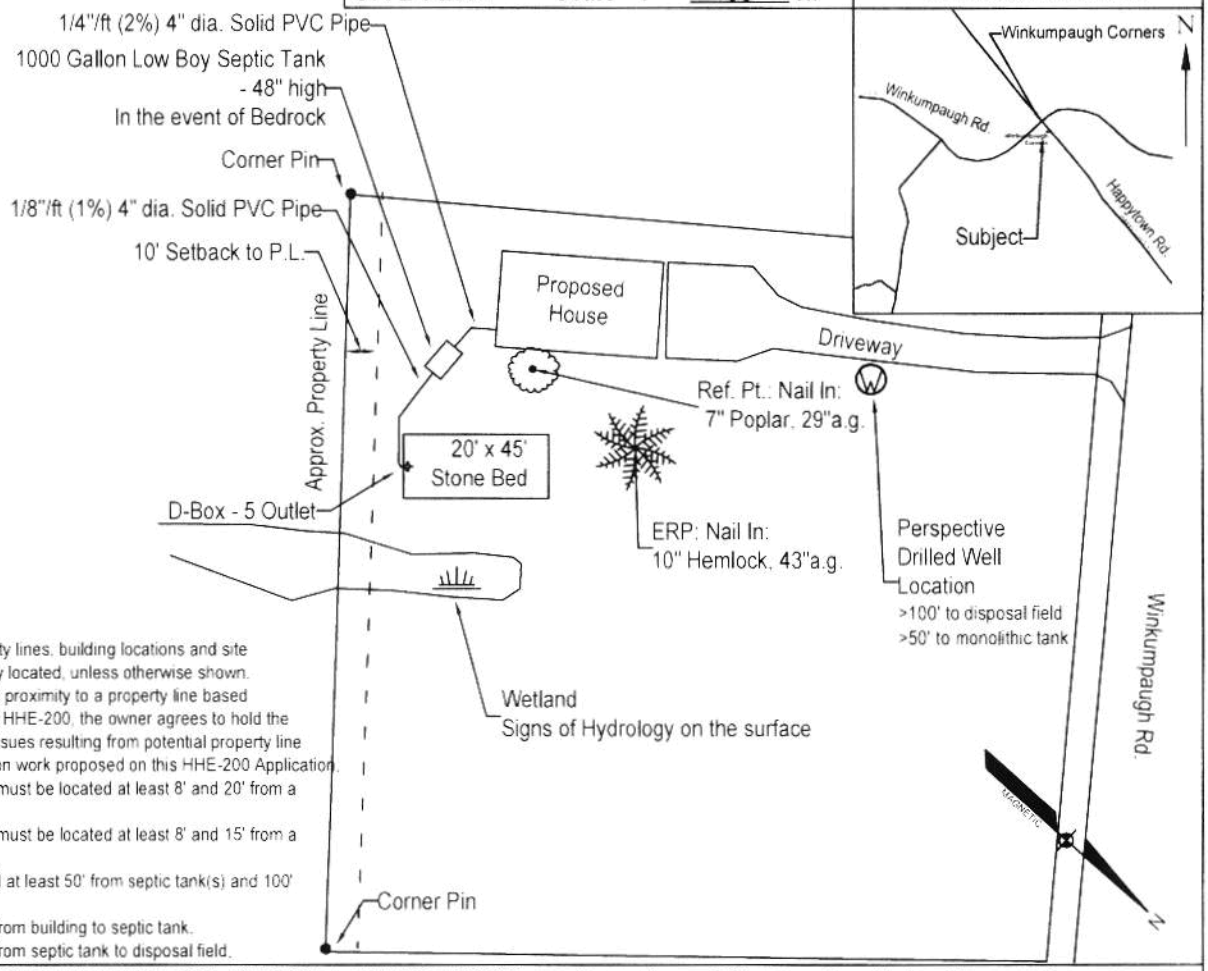
Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

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Orland	Winkumpaugh Corners	Three Guys LLC Me.

SITE PLAN Scale 1" = 60 ft.



SITE LOCATION PLAN

NOTES

1. This is not a survey. All property lines, building locations and site features have been approximately located, unless otherwise shown.
2. This system is located in close proximity to a property line based on Survey. By signing this HHE-200, the owner agrees to hold the Site Evaluator harmless for any issues resulting from potential property line disputes regarding the construction work proposed on this HHE-200 Application.
3. Septic tank and disposal field must be located at least 8' and 20' from a full foundation, respectively.
4. Septic tank and disposal field must be located at least 8' and 15' from a non-full foundation, respectively.
5. Proposed well must be located at least 50' from septic tank(s) and 100' from disposal field(s).
6. Min. 1/4"/ft (2%) pitch of pipe from building to septic tank.
7. Min. 1/8"/ft (1%) pitch of pipe from septic tank to disposal field.

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

Observation Hole # TP-1 ■ Test Pit □ Boring

0 " Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0				
6	Sandy Loam	Friable	Brown	
12	Sandy Loam	Friable	Dark Yellowish Brown	
18				
24	Sandy Loam	Friable	Dark Yellowish Brown	
30				
36	Bedrock at 29 inches			
42				
48				

56"

Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	
2	AIII	4.2%	29"	□ Groundwater □ Restrictive Layer ■ 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				

Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	
				□ Groundwater □ Restrictive Layer □ Bedrock

Marc Swartz
Site Evaluator Signature

438
SE #

9/12/24
Date

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SUBSURFACE WASTEWATER DISPOSAL PLAN

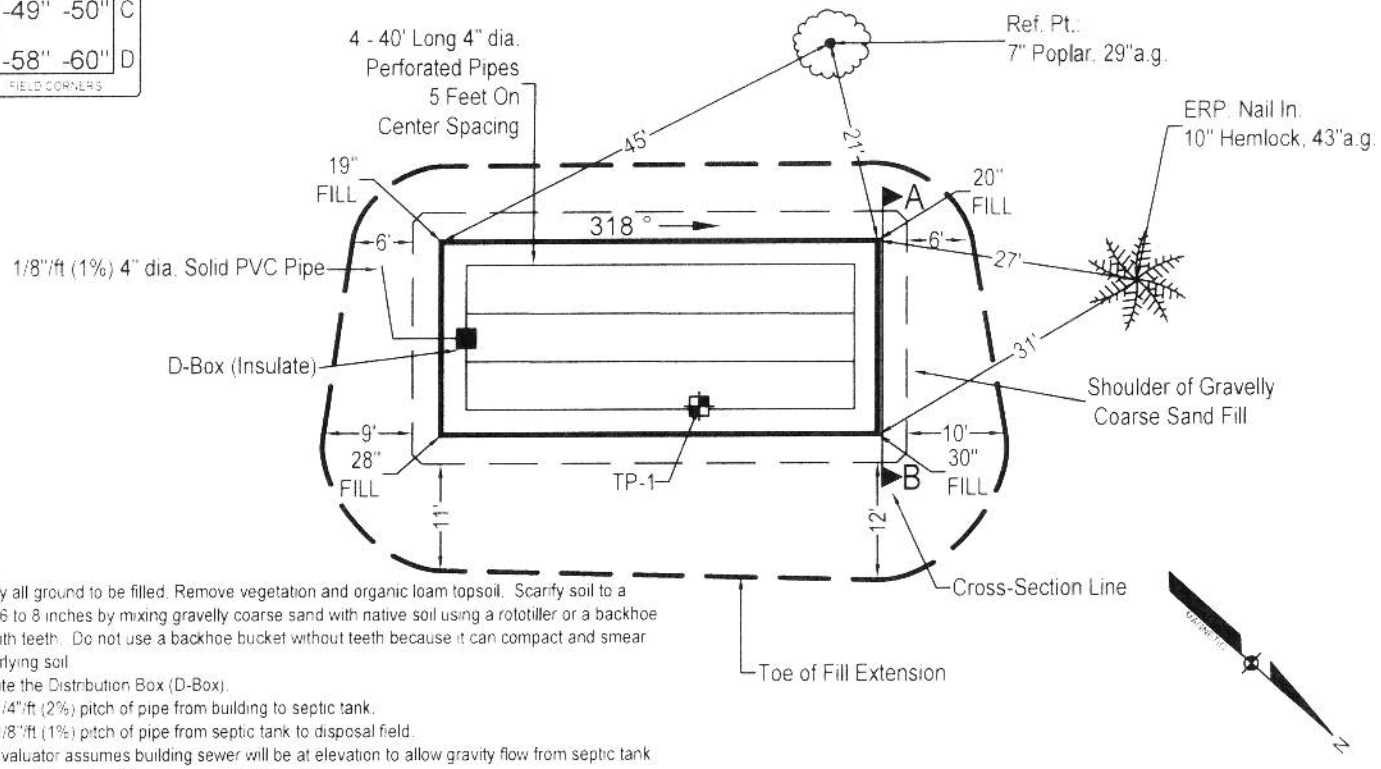
Scale: 1" = 20 ft

Existing Grade Elevations

A	-49" -50"	C
B	-58" -60"	D

FIELD CORNERS

20' x 45' Stone Bed



NOTES

1. Scarify all ground to be filled. Remove vegetation and organic loam topsoil. Scarify soil to a depth of 6 to 8 inches by mixing gravelly coarse sand with native soil using a rototiller or a backhoe bucket with teeth. Do not use a backhoe bucket without teeth because it can compact and smear the underlying soil.
2. Insulate the Distribution Box (D-Box).
3. Min. 1/4"/ft (2%) pitch of pipe from building to septic tank.
4. Min. 1/8"/ft (1%) pitch of pipe from septic tank to disposal field.
5. Site Evaluator assumes building sewer will be at elevation to allow gravity flow from septic tank to the disposal field, therefore a pump is not required.

BACKFILL REQUIREMENTS

Depth of Backfill (upslope) 19" to 20"
Depth of Backfill (downslope) 28" to 30"

CONSTRUCTION ELEVATIONS

Finished Grade Elevation (at Edge of Stone) -30"
Top of Stone Bed -42"
Top of Perforated Pipe -43"
Bottom of Stone -54"

ELEVATION REFERENCE POINT

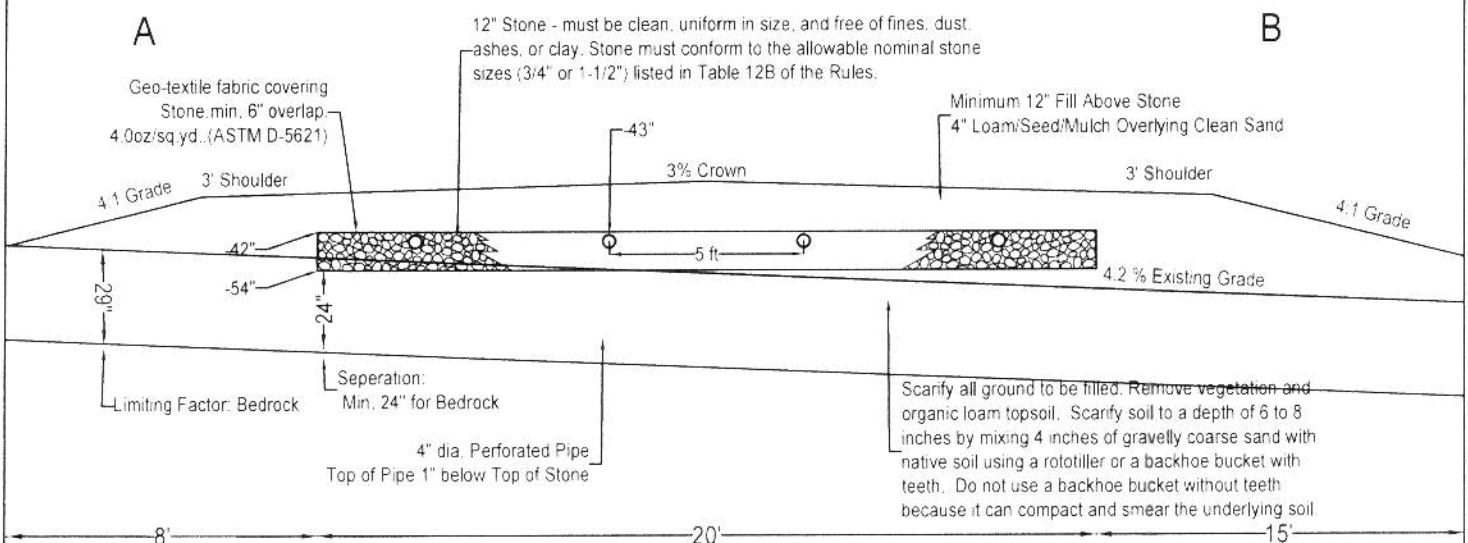
Location & Description Nail In: 10" Hemlock
334° NW, Stake C, marked w/ Or. & Gr. flagging
Reference Elevation 0.0"

NOTE: BACKFILL MATERIAL PLACED BELOW OR WITHIN 3' OF THE STONE BED MUST BE GRAVELLY COARSE SAND MEETING SECTION 12(E)(2) OF THE RULES. REMAINING FILL LOAMY SAND (NO CLAY)

DISPOSAL FIELD CROSS SECTION

APPROXIMATE ABOVE GRADE FILL REQUIRED:
49.1 cubic yards of LOAM
158.1 cubic yards of SAND
Compaction +30% Loam & +25% Sand
Volume of Stone Not Considered

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



Site Evaluator Signature	SE #	Date	
Marc Swartz	438	9/12/24	Page 3 of 4

HHE-200 Rev. 10/02

Design and Installation Notes
Three Guys LLC.
Winkumpaugh Rd., Orland

System Setbacks

			Disposal Field				
Drainage Ditches	Potable Water Supply	Water Supply Line	Major Water Body(a)	Basement/ Foundation	No Foundation, slabs, posts	Wetponds, Retention Ponds	Property Lines
25'	100'	10'	100'	20'	15'	50'	10'
			Treatment Tank				
25'	50'[a]	10'	50'[a]	8'	8'	50'	10'

[a] tanks with monlithic construction

Notes

General

1) This system complies with and must be installed in accordance with the Maine Subsurface Rules Chapter 241.
2) Installation shall not take place when the ground is frozen or saturated.
3) Disposal field and fill extensions must be free of topsoil, organics or trees, including the drip-line of tree canopy extent, prior to installation.
4) **This system in not designed for backwash from any water treatment units.**
5) "As-Built" should be provided to client upon completion of installation, of location of system components.

Page 1

1) 20'x45' Stone Bed 900sq.ft., 3bdrm(90gal/bdrm)=270gal. (3.3sq.ft./gal.) = 900sq.ft./3.3sq.ft./gall. =270gpd.
2) Disposal system to serve 3bdrm, single family dwelling. As found in Tables 5A, 5D and 5E. (Pg's. 40 & 56-58; Maine Subsurface Waterwater Rules)
3) This system is designed to handle the additional loading of a garbage disposal.

Page 2

1) Access to the septic tank, 2023 Rules, require at least one watert-tight riser to installed on the tank opens, to finish grade. Clean-outs pumps and filters shall have access.
2) Pipes carrying solids, shall not have an angle on a fitting of greater than 22 degrees.
3) Septic tanks, is to be level, and bedded in 4" or more of crushed stone and 4" beyond foot print of tank. Tank, upon installation, must be prevented from floating. 1,000gal. Tanks come in low-profile, if needed to account for bedrock. H-20 construction is required in areas with vehicular traffic. Septic tanks shall be fitted with an effluent filter on the tank outlet. A Polylok PL-250 or equivalent. Clean filter annually.
4) The invert, of the outlet of the septic tank to be above the seasonal high water table. Minimum pitch of effluent line is 1/8"/ft. If minimum cannot be maintained an effluent pump will have to be installed. Pipe runs of >100' require surface clean-outs.
5) Effluent pumps to fitted w/ 2" pressure line. Pump tanks above frost-line need to be covered with rigid polystyrene insulation. Pump tanks require watert-tight risers to grade with adequate space to service tank equipment.
6) 2" pressure line will need to be installed below frost level or require insulation to protect against freezing.

Page 3

1) Top of existing mineral soil shall be scarified by rototiller, harrow or backhoe teeth, to a depth of 6-8" below the entire disposal field. EstablishTransitional Horizon, thoroughly mix a minimum of 4" of back-fill material with existing mineral soil.
2) Back-fill shall be gravelly coarse sand and shall meet specifications of Table 12A of the Maine Subsurface Rules.
3) Washed crushed stone, shall meet specifications of Table 12B, of the Maine Subsurface Rules.
4) 2023 Rules. Stone must be covered with geo-textile fabric, **not hay.**
5) Systems requiring pumping, D-Box, outlets invert, must be placed, > or = to 1", or 2% slope, which ever is greater, above the distribution pipes .
6) Distribution boxes, shall be placed on 6" of compacted gravelly coarse sand or crushed stone, and be covered with 2" of rigid foam insulation. Each distribution pipe exiting the distribution box, is to be fitted with flow equalizers.
7) Distribution pipes shall be rigid 4" perforated Sch. 35 or 20 pipe, with perforations oriented at 4 and 8 o'clock. & laid level.
8) Distribution pipes, from D-Box to each of the laterals shall be solid: All subsequent piping perforated, so as to not overload the D-Box side of field.
9) Final grades shall be loamed (4"), seeded and mulched, with proper erosion protection and control measures in place.