19111

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, 10 SHS
(207) 287-5672 Fax: (207) 287-4172

PROPERTY LOCATION

City, Town, or Plantation	Durham
Street or Road	615 Halllowell Road
Subdivision, Lot #	Durham Fire Station

OWNER/APPLICANT INFORMATION

Name (last, first, MI): Town of Durham (Fire Station) — [X] Owner [ ] Applicant

Mailing Address of Owner/Applicant	615 Hallowell Road Durham, ME 04222
Daytime Tel. #	(207) 353-2473

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 _____

>> CAUTION: LPI APPROVAL REQUIRED <<

Town/City _____ Permit # _____

Date Permit Issued ___/___/___ Fee: $_____ Double Fee Charged [ ]

Local Plumbing Inspector Signature _____ L.P.I. # _____

[Owner [Town [State

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The 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 # _____ Lot # _____

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: unknown
Year installed: 1980± (?)
[X] 3. Expanded System
[ ] a. <25% Expansion (Minor)
[X] b. >25% Expansion (Major)
[ ] 4. Experimental System
[ ] 5. Seasonal Conversion

THIS APPLICATION REQUIRES

[X] 1. No Rule Variance
[ ] 2. First Time System Variance
[ ] a. Local Plumbing Inspector Approval
[ ] b. State & Local Plumbing Inspector Approval
[ ] 3. Replacement System Variance
[ ] a. Local Plumbing Inspector Approval
[ ] b. State & Local Plumbing Inspector Approval
[ ] 4. Minimum Lot Size Variance
[ ] 5. Seasonal Conversion Permit

DISPOSAL SYSTEM COMPONENTS

[X] 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

SIZE OF PROPERTY

2.0± [ ] SQ. FT. [X] ACRES

SHORELAND ZONING

[ ] Yes [X] No

DISPOSAL SYSTEM TO SERVE

[ ] 1. Single Family Dwelling Unit, No. of Bedrooms: ____
[ ] 2. Multiple Family Dwelling, No. of Units: _____
[X] 3. Other: 2-bdrm mobile (future) up to 6 employees (w/shower) (specify)
Current Use [ ] Seasonal [X] Year Round [ ] Undeveloped

TYPE OF WATER SUPPLY

[ ] 1. Drilled Well [X] 2. Dug Well [ ] 3. Private
[ ] 4. Public [ ] 5. Other
*may be updated to a drilled well in near future

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

[X] 1. Concrete
[X] a. Regular
[ ] b. Low Profile
[ ] 2. Plastic
[ ] 3. Other: _____
CAPACITY: (2) 1,000 GAL.

DISPOSAL FIELD TYPE & SIZE

[X] 1. Stone Bed [ ] 2. Stone Trench
[ ] 3. Proprietary Device
[ ] a. cluster array [ ] c. Linear
[ ] b. regular load [ ] d. H-20 load
[ ] 4. Other: _____
SIZE: 800 [X] sq. ft. [ ] lin. ft.

GARBAGE DISPOSAL UNIT

[X] 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

up to 300 gallons per day
BASED ON:
[X] 1. Table 4A (dwelling unit(s))
[ ] 2. Table 4C(other facilities)
SHOW CALCULATIONS for other facilites
2-bdrm mobile @ 180gpd
up to 6-empl: @ 20gpd/ea=120gpd
[ ] 3. Section 4G (meter readings)
ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS

PROFILE CONDITION DESIGN
5 / C
at Observation Hole # B-2/B-3
Depth 24 "
of Most Limiting Soil Factor

DISPOSAL FIELD SIZING

[X] 2. Medium---2.6 sq. ft. / gpd
[ ] 3. Medium---Large 3.3 sq. f.t / gpd
[ ] 4. Large---4.1 sq. ft. / gpd
[ ] 5. Extra Large---5.0 sq. ft. / gpd

EFFLUENT/EJECTOR PUMP

[ ] 1. Not Required
[ ] 2. May Be Required
[X] 3. Required from Fire Station tank
Specify only for engineered systems:
DOSE: _____ gallons

LATITUDE AND LONGITUDE

at center of disposal area
Lat. 43 d 58 m 30 s
Lon. 70 d 07 m 33 s
if g.p.s, state margin of error: _____

SITE EVALUATOR STATEMENT

I certify that on 10/24/19 (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).

Bonnie J.S. Cobb — Site Evaluator Signature
368 — SE #
10/31/19 — Date

Bonnie J.S. Cobb — Site Evaluator Name Printed
(207) 899-8397 — Telephone Number
b.cobb@comcast.net — E-mail Address

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

HHE-200 Rev. 02/2011

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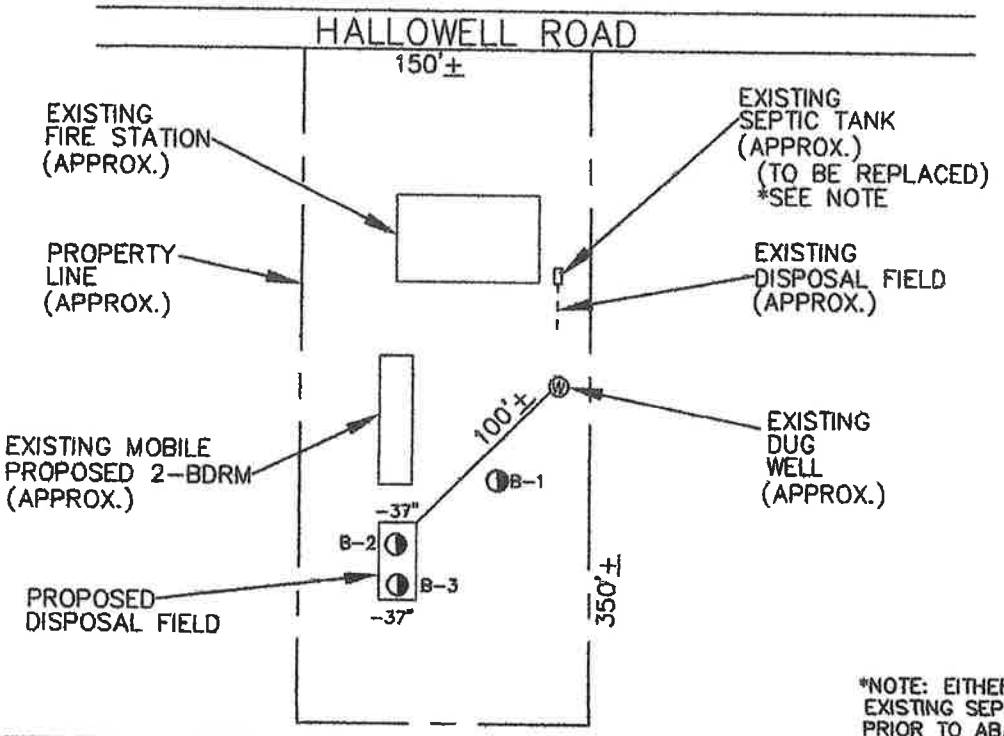
IPF=IRON PIN FOUND
B=SOIL BORING

SITE PLAN

Scale 1" = 100 Ft. or as shown



SITE LOCATION PLAN

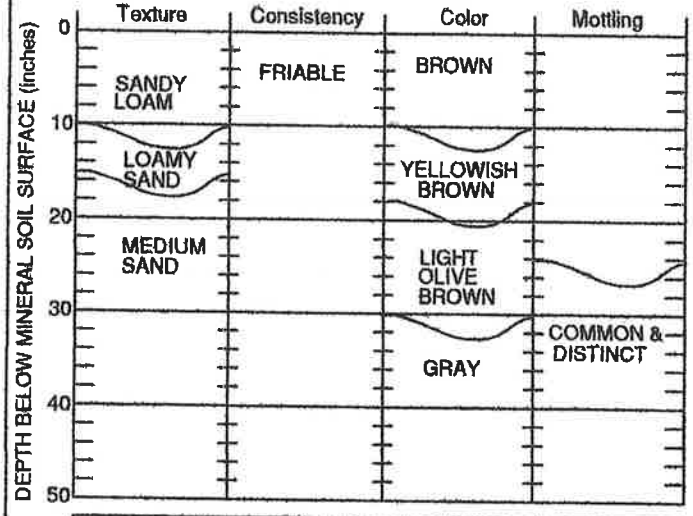
*NOTE: PROPERTY LINE IS APPROX. DATA AT THE TOWN OFFICE WAS UNCLEAR. VERIFY PRIOR TO CONSTRUCTION.

*NOTE: EITHER REMOVE, CRUSH, OR FILL EXISTING SEPTIC TANK WITH SOIL OR STONE PRIOR TO ABANDONING TO PREVENT COLLAPSE.

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

Observation Hole B-2/B-3 ☐ Test pit ☒ Boring

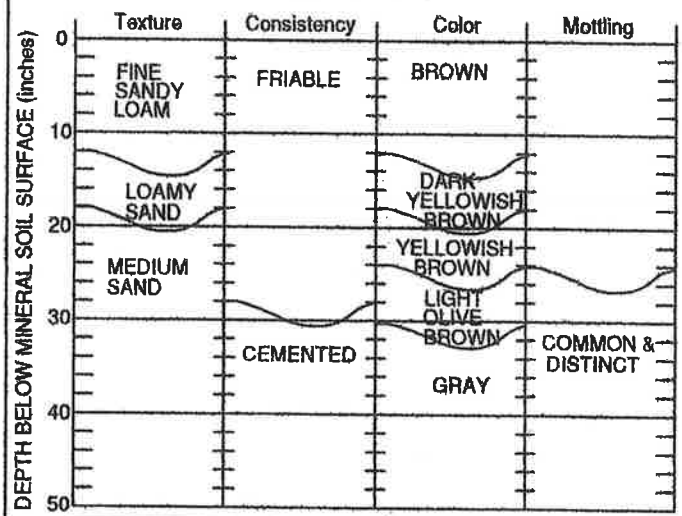
1-2 " Depth of Organic Horizon Above Mineral Soil



Soil Classification	Slope	Limiting Factor	
5 Profile / C Condition	0-3 %	24 "	☒ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Observation Hole B-1 ☐ Test pit ☒ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil



Soil Classification	Slope	Limiting Factor	
5 Profile / C Condition	0-3 %	24 "	☒ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Site Evaluator Signature

368
SE #

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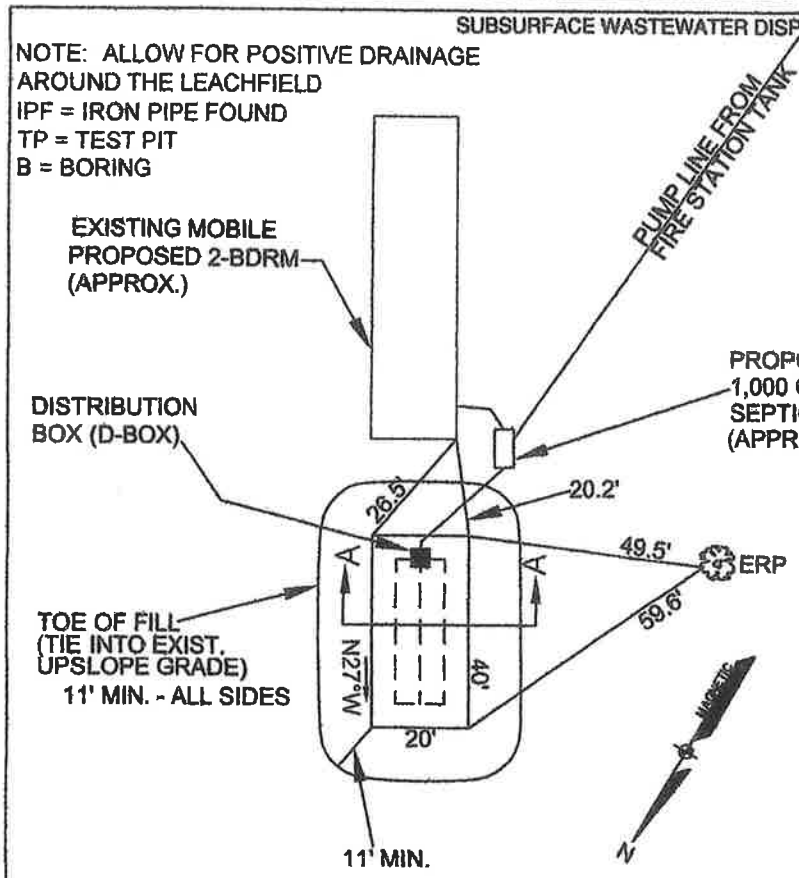
SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 40 FT.

NOTE: ALLOW FOR POSITIVE DRAINAGE AROUND THE LEACHFIELD
IPF = IRON PIPE FOUND
TP = TEST PIT
B = BORING



NOTE: CONTRACTOR TO VERIFY PROPERTY LINE PRIOR TO CONSTRUCTION.

NOTE: THIS SYSTEM IS NOT DESIGNED FOR BACKWASH FROM A WATER TREATMENT SYSTEM.

NOTE: IF A GARBAGE DISPOSAL IS USED, THEN CHANGES TO THIS DESIGN ARE NECESSARY.

NOTE: CONTRACTOR TO CONTACT SITE EVALUATOR IF GRAVITY FLOW CANNOT BE MET FROM MOBILE WITH GIVEN ELEVATIONS.

NOTE: CONTRACTOR MAY USE SEPARATE SEPTIC TANK & PUMP STATION OR A COMBINATION TANK/PUMP AT THE FIRE STATION

PROPOSED DISPOSAL FIELD

20' X 40' STONE BED

NOTE: ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MAINE SUBSURFACE WASTEWATER DISPOSAL RULES DATED 8/15, AS AMENDED AND SUPPLEMENTED BY THE ATTACHED GENERAL NOTES WHICH BECOME A PART OF THIS DESIGN.

BACKFILL REQUIREMENTS

Depth of Fill (Upslope)	24"+
Depth of Fill (Downslope)	24"+

CONSTRUCTION ELEVATIONS

Finished Grade Elevation	-13"
Top of Distribution Pipe or Proprietary Device	-26"
Bottom of Disposal Area (Bottom of Stone)	-37"

ELEVATION REFERENCE POINT

Location & Description Nail up 31" in an 18" dia. W.Pine.
Reference Elevation 0"

DISPOSAL FIELD CROSS SECTION

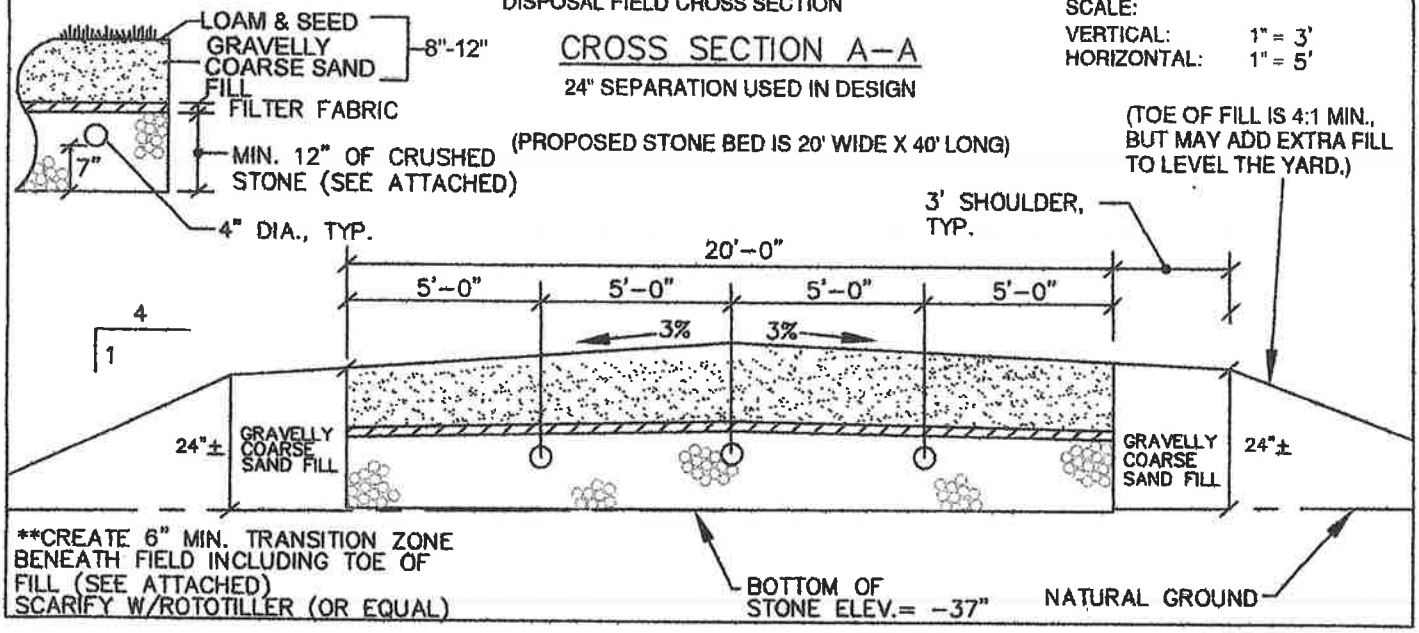
SCALE:
VERTICAL: 1" = 3'
HORIZONTAL: 1" = 5'

CROSS SECTION A–A

24" SEPARATION USED IN DESIGN

(PROPOSED STONE BED IS 20' WIDE X 40' LONG)

(TOE OF FILL IS 4:1 MIN., BUT MAY ADD EXTRA FILL TO LEVEL THE YARD.)



Barrie S Webb
Site Evaluator Signature

368
SE #

10/31/19
Date

GENERAL NOTES
(ATTACHMENT TO HHE-200 FORM)
<1,000 gpd Septic System

1. The nature of the site evaluation profession is one of interpretation of soil and site conditions. We, in the field, attempt to provide both a satisfactory service to our client and to comply with the rules by which we are bound – The Maine Subsurface Wastewater Disposal Rules.
2. This design is based on representative test pits/borings; however, upon excavation, variations in soils between test pits/borings may require changes to this design.
3. Property information is supplied by the owner, applicant or representative. Such information presented herein shall be verified as correct by the owner or applicant prior to application and construction.
4. All work shall be done in accordance with the Maine Subsurface Wastewater Disposal Rules dated 8/15, as amended.
5. All work should be preformed under dry conditions only (for disposal field area).
6. No vehicular or equipment traffic (other than rototiller) is to be allowed on the disposal area. Disposal field shall be constructed from outside the corner stakes located in the field. The downslope area is also to be protected in the same manner to prevent compaction.
7. Backfill, if required, is to be gravelly coarse sand to coarse sand texture and to be free of foreign debris. If backfill is coarser than original soil, then a **transition horizon** is to be created: 4" of backfill must be mixed with the original soil with a rototiller (or equal).
8. No neighboring wells are apparent (unless so indicated) within 100' of the disposal area. Owner or applicant shall verify this prior to signing the application.
9. The disposal field stone shall be **clean, uniform** in size, and free of fines, dust, ashes, or clay. It shall conform to one of the nominal sizes listed in Section 11, Table 11B of the Maine Subsurface Rules (¾ inch or 1½ inches).
10. Minimum separation distances required (unless reduced by variance or special circumstance):
    a. Wells with water usage of 2000 or more gpd or public water supply wells:
        a. Disposal fields: 300'
        b. Septic tanks and Holding Tanks: 150'
    b. Any well <2000 gpd to disposal area: 100'
    c. Any well <2000 gpd to septic tank: 50'
    d. Septic tank or disposal area to lake, river, stream or brook:
        a. Major watercourse: 100'
        b. Minor watercourse: 50'
    e. House to septic tank: 8'
    f. House to disposal area:
        a. Full foundation: 20'
        b. Slab foundation: 15'
    - For all other separation distances, use separations for less than 1,000 gpd per the Maine Subsurface Disposal Rules Table 7B (1ST-time system) or Table 8A (replacement system).
11. Location of septic system near a wetland may require a separate permit. As such, the owner, prior to the construction of the septic system, shall hire a professional to evaluate proximity of adjacent wetlands and prepare necessary permit applications.
12. Garbage disposals are not recommended, and if installed, are done so at the owner's risk. The additional waste load requires increased maintenance frequency and larger septic tanks. Additionally, they increase the potential for failure.
13. Pump stations, when required, shall be installed watertight to prevent infiltration of ground and/or surface water.
14. Force mains and pressure lines shall be flushed of any foreign material and pumps shall be checked for proper on/off cycle before being put into service.
15. For mains, pump stations, and/or gravity piping subject to freezing shall be installed below the frost line or adequately insulated.