

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

**PROPERTY ADDRESS**

Town Or Plantation: BROOKLIN

Street: BACK RD.

Subdivision Lot #: \_\_\_\_\_

**PROPERTY OWNERS NAME**

Last: McCLAIN First: CHARLES

Applicant Name: MIKE ALLEN

Mailing Address of Owner/Applicant (If Different):  
BOX 1  
BROOKLIN, ME 04616

**PERMIT INFORMATION**

TOWN: BROOKLIN PERMIT #: 88 STATE COPY

Date Permitted: 12-7-85 FEE: \$ 401 Double Fee Charged:

Local Plumbing Inspector Signature: Cubrey P. Allen L.P.I. # 2512

**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 Local Plumbing Inspector to deny a Permit.

Signature of Owner/Applicant: [Signature] Date: 12/7/85

**Caution: Inspection Required**

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

Local Plumbing Inspector Signature: Cubrey P. Allen Date Approved: 12-9-85

## PERMIT INFORMATION

**THIS APPLICATION IS FOR:**

- NEW SYSTEM
- REPLACEMENT SYSTEM
- EXPANDED SYSTEM
- SEASONAL CONVERSION
- EXPERIMENTAL SYSTEM

**THIS APPLICATION REQUIRES:**

- NO RULE VARIANCE REQUIRED
- NEW SYSTEM VARIANCE  
Attach New System Variance Form
- REPLACEMENT SYSTEM VARIANCE  
Attach Replacement System Variance Form
- Requiring Local Plumbing Inspector Approval
- Requires State and Local Plumbing Inspector Approval

**INSTALLATION IS:**

**COMPLETE SYSTEM**

- NON-ENGINEERED SYSTEM
- PRIMITIVE SYSTEM (Includes Alternative Toilet)
- ENGINEERED (+ 2000 gpd)

**INDIVIDUALLY INSTALLED COMPONENTS:**

- TREATMENT TANK (ONLY)
- HOLDING TANK
- ALTERNATIVE TOILET (ONLY)
- NON-ENGINEERED DISPOSAL AREA (ONLY)
- ENGINEERED DISPOSAL AREA (ONLY)
- SEPARATED LAUNDRY SYSTEM

**IF REPLACEMENT SYSTEM:**

YEAR FAILING SYSTEM INSTALLED: \_\_\_\_\_

THE FAILING SYSTEM IS:

- BED
- CHAMBER
- TRENCH
- OTHER: \_\_\_\_\_

**DISPOSAL SYSTEM TO SERVE:**

- SINGLE FAMILY DWELLING
- MODULAR OR MOBILE HOME
- MULTIPLE FAMILY DWELLING
- OTHER: \_\_\_\_\_ SPECIFY \_\_\_\_\_

**SIZE OF PROPERTY**: 40 ACRES

**ZONING**: \_\_\_\_\_

**TYPE OF WATER SUPPLY**: SHARED DUG WELL

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

**TREATMENT TANK**

- SEPTIC:  Regular  Low Profile
- AEROBIC

SIZE: 750 or 1000 GALS.

**WATER CONSERVATION**

- NONE
- LOW VOLUME TOILET
- SEPARATED LAUNDRY SYSTEM
- ALTERNATIVE TOILET

SPECIFY: \_\_\_\_\_

**PUMPING**

- NOT REQUIRED
- MAY BE REQUIRED (DEPENDENT ON TREATMENT TANK LOCATION AND ELEVATION)
- REQUIRED

DOSE: \_\_\_\_\_ GALS.

CRITERIA USED FOR DESIGN FLOW (BEDROOMS, SEATING, EMPLOYEES, WATER RECORDS, ETC.)

**2 BEDROOM SINGLE FAMILY DWELLING**

MINIMUM

- 10% (LOW VOLUME FLUSH TOILET)

DESIGN FLOW: 162 GPD (GALLONS/DAY)

**SOIL CONDITIONS USED FOR DESIGN PURPOSES**

PROFILE: 4 | CONDITION: C

DEPTH TO LIMITING FACTOR: 23

**SIZE RATINGS USED FOR DESIGN PURPOSES**

- SMALL
- MEDIUM
- MEDIUM-LARGE
- LARGE
- EXTRA LARGE

**DISPOSAL AREA TYPE/SIZE**

- BED 420 Sq. Ft.
- CHAMBER \_\_\_\_\_ Sq. Ft.
- TRENCH \_\_\_\_\_ Linear Ft.
- OTHER: \_\_\_\_\_

REGULAR  H-20

## SITE EVALUATOR STATEMENT

On NOV 8, 1985 (date) I conducted a site evaluation for this project and certify that the data reported is accurate. The system I propose is in accordance with the Subsurface Wastewater Disposal Rules.

Site Evaluator Signature: Teresa L. Davis SE# #203 Date: 11-19-85

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering

Town, City, Plantation:

**BROOKLIN**

Street, Road, Subdivision:

**BACK RD.**

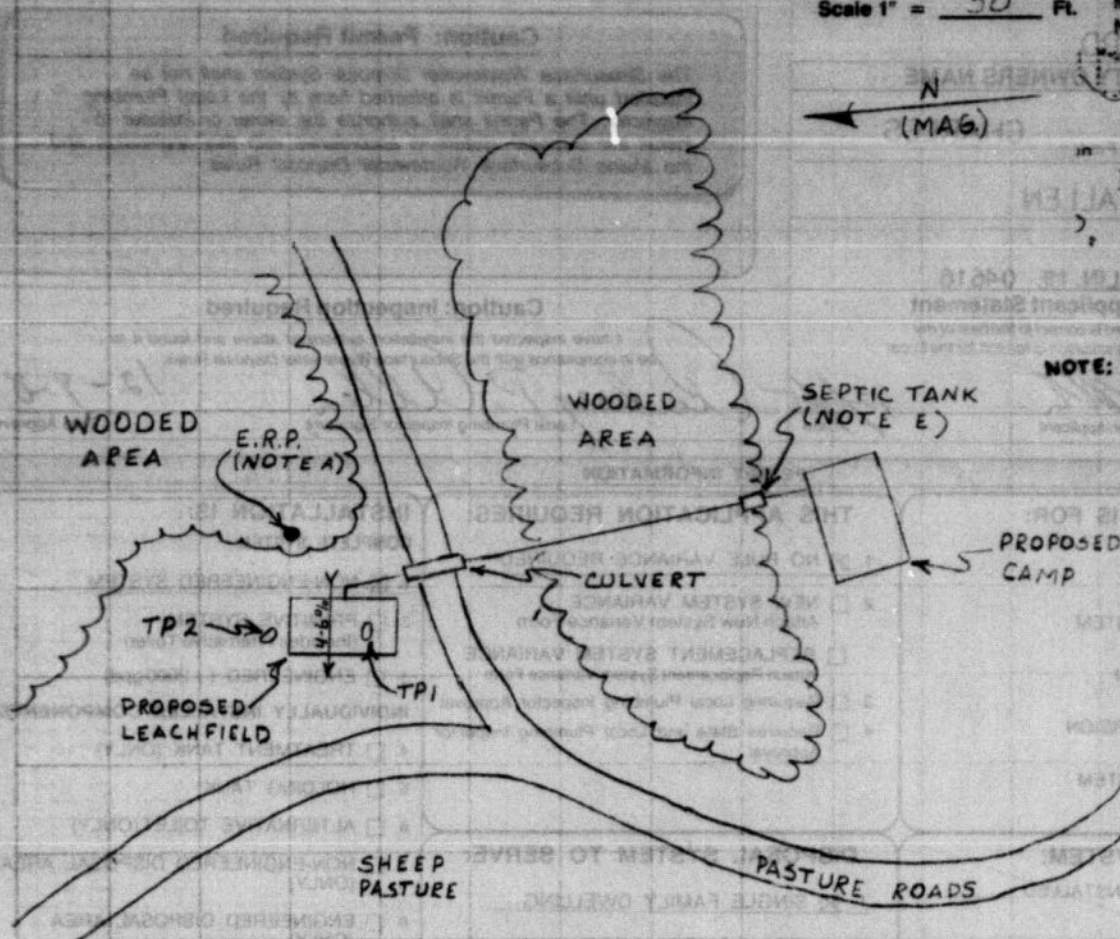
Owners Name:

**CHARLES McCLAIN**

## SITE PLAN

Scale 1" = 50 Ft.

SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)



NOTE: NO PROPERTY LINES LIE WITHIN AREA SHOWN

- KEY:
- ↓ ARROWS DESIGNATE DIRECTION OF DOWNHILL SLOPE
  - DESIGNATES ELEVATION REFERENCE POINT (E.R.P.)
  - DESIGNATES OBSERVATION HOLE (TP)

NOTE:

CULVERT SHOULD BE INSTALLED UNDER PASTURE ROAD TO PROTECT EFFLUENT LINE FROM BREAKING IF TRAFFIC WILL BE USING ROAD.

### SOIL DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole TP1  Test Pit  Boring

0 " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
Ap SANDY LOAM	FRIABLE	DARK BROWN	
B LOAMY SAND		REDDISH BROWN	
B <sub>2</sub> GRAVELLY LOAMY COARSE SAND		VL. RED. BROWN	
B <sub>3</sub> LOAMY SAND		MED. BROWN	COMMON COARSE DISTINCT GRAY AND REDDISH BROWN
C		OLIVE BROWN	

Soil Profile	Classification	Slope	Limiting Factor	<input checked="" type="checkbox"/> Ground Water
<u>4</u>	<u>C</u>	<u>~4%</u>	<u>26</u>	<input type="checkbox"/> Restrictive Layer
	Condition			<input type="checkbox"/> Bedrock

Observation Hole TP2  Test Pit  Boring

0 " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
Ap COARSE SANDY LOAM	FRIABLE	DARK BROWN	
B SANDY LOAM		REDDISH BROWN	
B <sub>2</sub> GRAVELLY LOAMY COARSE SAND		MEDIUM BROWN	COMMON COARSE DISTINCT
B <sub>3</sub> LOAMY SAND		YELLOWISH BROWN	LIGHT GRAY
C		OLIVE BROWN	

Soil Profile	Classification	Slope	Limiting Factor	<input checked="" type="checkbox"/> Ground Water
<u>4</u>	<u>C</u>	<u>~6%</u>	<u>23</u>	<input type="checkbox"/> Restrictive Layer
	Condition			<input type="checkbox"/> Bedrock

*Teresa G. Davis*  
Site Evaluator Signature

#203  
SE#

11-19-85  
Date

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City, Plantation  
**BROOKLIN**

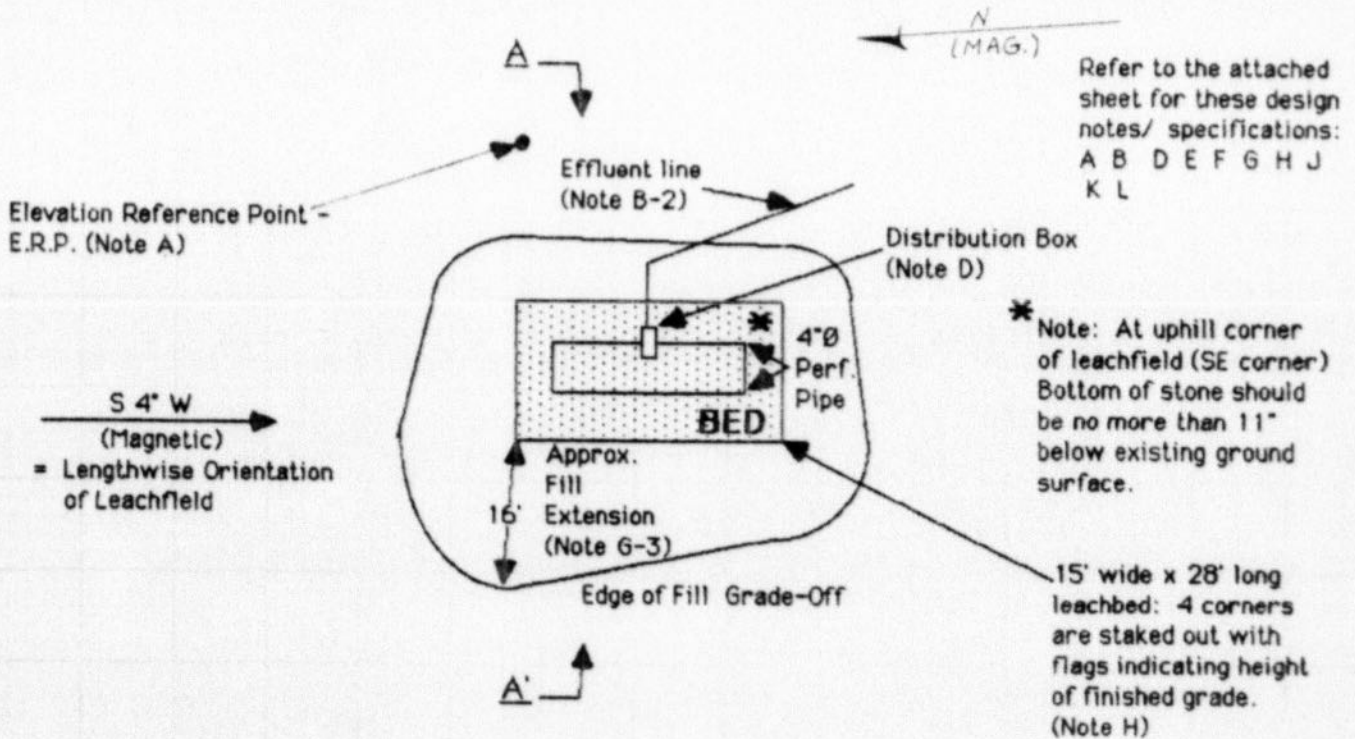
Street, Road, Subdivision  
**BACK RD.**

Department of Human Services  
 Division of Health Engineering  
 Owners Name

**CHARLES McLELLAIN**

## SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20 Ft.

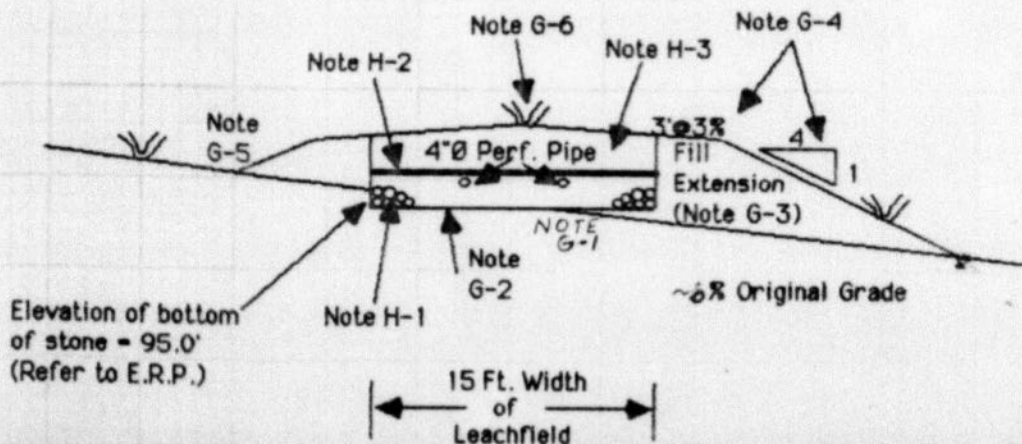


FILL REQUIREMENTS	CONSTRUCTION ELEVATIONS	ELEVATION REFERENCE POINT LOCATION & DESCRIPTION
Depth of Fill (Upslope) <u>13-17"</u>	Reference Elevation is <u>102.0'</u>	E.R.P. IS A NAIL 27" UP ON A 13" DIA. SPOULE LOCATED 34' AT N 35° E FROM SE COR. AND 18' FROM NE COR. OF PROPOSED BED.
Depth of Fill (Downslope) <u>20-28"</u>	Bottom of Disposal Area <u>95.0'</u>	
	Top of Distribution Lines or Chambers <u>95.7'</u>	

Note: 16 Cu. Yds. of stone required. (Note H)

### DISPOSAL AREA CROSS SECTION (Across A - A' Above)

Scale:  
 Vertical: 1 inch = 5 Ft.  
 Horizontal: 1 inch = 10 Ft.



*Teresa L. Davis*  
 Site Evaluator Signature

#203  
 SE#

11-19-85  
 Date

Ralph S. Baker  
Cert. Soil Scientist  
Lic. Site Evaluator

Allan E. Ott 244-5119  
Lic. Site Evaluator  
Southwest Harbor, Maine



# Ralph S. Baker Associates

Star Route Box 24  
Penobscot, Maine 04476  
(207)326-4254

## DESIGN NOTES/SPECIFICATIONS

for Subsurface Wastewater

Disposal System

Attachment to HBE-200 form for:

CHARLES McCLAIN / MIKE ALLEN  
owner/applicant

### NOTE

- (A) Elevation Reference Point (ERP) is ~~at the same elevation as~~ / 60" inches above / ~~below~~ // the bottom of the stone / ~~the bottom of the chambers~~ within the proposed disposal area as staked. Disposal area (leachfield) shall be no lower than indicated.
- (B) Sewer Pipes: Use 4" diameter approved materials (watertight). Insulate as necessary to protect from freezing; bury at least 1' deep; see:
1. Building sewer: For gravity flow from building to septic tank, maintain minimum pitch of 1/4"/ft. (1/8"/ft. with LPI's approval).
  2. Effluent line: For gravity flow below septic tank, maintain minimum pitch of 1/16"/ft.
- (C) Pump Needed: Gravity flow to disposal area is not feasible. See DESIGN NOTES/SPECIFICATIONS for PUMPED SYSTEMS for details.
- (D) Distribution Box: Serves as worthwhile access point to disposal area. Set box properly on firm base, and protect from freezing by covering with soil or insulation.
- (E) Septic Tank:
1. Setback requirements which must be met when installing a septic tank include the following (unless reduced by waiver): 100 ft. from wells, except 75 ft. from owner's well; 100 ft. from high watermark of perennial waterbodies (may be reduced to 75 ft. if tank tested for water tightness in LPI's presence); 50 ft. from intermittent waterbodies; 25 ft. from man-made drainage ditches; 10 ft. from property lines; and 8 ft. from buildings.
  2. Pumping of the septic tank every 3 to 4 years is generally considered good maintenance practice. Otherwise, clogging of the disposal area could result, necessitating costly replacement. Installation of a riser over the cleanout cover of the tank greatly facilitates maintenance.
- (F) Setbacks for Disposal Areas: Same as for septic tanks (NOTE E above) except for the following (unless waived): 100 ft. from owner's well; 100 ft. from perennial waterbodies; 20 ft. from buildings with basements; 15 ft. from buildings without basements.

## NOTE

G

Disposal Area Construction Details:

1. The vegetation in the proposed disposal area and fill extensions shall be removed leaving as much of the original topsoil in place as possible. The ground surface shall then be raked/scarified to minimize glazing or smearing of the original soil.
2. The disposal area bottom and distribution line shall be level with a maximum grade tolerance of 1"/100 ft.
3. Clean fill (sandy loam or coarser) is to be placed in 8" lifts.
4. The finished grade of the backfill over the disposal area shall be crowned from the center of the disposal area at a 3% slope extending 3 ft. beyond the edge of the disposal area. At that point the fill shall be sloped at a uniform grade of no greater than 25% (4:1) to the original ground.
5. The land adjacent to the disposal area shall be graded to prevent both the accumulation of surface water on the disposal area, and the flow of surface water across it. Make sure that cellar drain line discharges away from disposal area also.
6. The finished disposal area and fill extensions shall be seeded to establish vegetation to prevent erosion: a) grass, clover, trefoil, vetch, perennial wildflowers, or other herbaceous perennials may be utilized for disposal area surfaces; woody shrubs are unacceptable; b) woody shrubs in conjunction with a hardy perennial ground cover may be used on fill extensions.

H

Bed or Trench Area Details:

1. A minimum total of 12" of stone of uniform size, 3/4" to 3" size range, and free of fines, dust, ashes or clay, shall be used on the bottom of the disposal area. The distribution pipes shall be installed totally within the stone.
2. The stone shall be completely covered with one of the following materials: a) a minimum 2" layer of compressed hay; b) one layer of an approved non-woven filter fabric; c) 1" of fiberglass insulation.
3. Clean backfill, 8 to 12" in depth, shall be carefully placed over the hay layer or approved substitute.

I

Chamber Disposal Area Details: Install approved chambers in accordance with manufacturer's recommendations and specifications.

J

Seeding: (Recommended quantities per 1000sq. ft.) Rake in 90 lbs. lime, 30 lbs. 5-10-10 fertilizer (or 1/4 ton manure); seed with 2 to 4 lbs. "Conservation Mix" available at garden centers; then mulch with 1 1/2 bales hay to prevent erosion and aid establishment of vegetative cover.

K

Maintenance: Conserve water whenever possible. Low volume plumbing fixtures or flow reducers on showers, toilets, and sinks are strongly recommended. Also, do not drive or park vehicles over septic system. Also see NOTE E-2.

L

For further information: Contact me, or your town's Local Plumbing Inspector (LPI), or Div. of Health Engineering, Dept. of Human Services, Augusta, ME 04333, Tel. 289-3826, which administers the Subsurface Wastewater Disposal Rules, from which most of these specifications are derived.