Magnetic North

N

150.0'

60.9'

198.0'

202.7'

Approximate Property Line

150.0'

179.9'

Approximate Property Line

Popple Dungeon Road

307.6'

52.5'

LOT 5B

Area = 3± acres

LOT 5A

Area = 8± acres

Approximate Property Line

600.1'

New Lot 5A Wastewater Disposal Mound

New force main

Stone Drive

Stone Parking

Existing Garage

New pump station.

Existing House

Approximate location of existing water service connected to West Wind water system

New Lot 5B Wastewater Disposal Mound

Well shield

New force main

Approximate Property Line

429.4'

300.0' Approximate Property Line

Building envelope for Lot 5B

New pump station

New septic tank

New 1" copper water service.

Building envelope for Lot 5B

Proposed Lot 5B new well

179.8'

332.6'

270.0'

SHELBURNE
CHARLOTTE
HINESBURG
LAKE CHAMPLAIN
SITE
FERRISBURG
MONKTON
Route 7
Route 116
Route 2
Route 4
Route 17
Route 23
Route 30
Route 73
Route 100
Route 125
Route 127
Route 149
Route 279
Route 289
Shelburne Road
Hinesburg Road
Ferry Road
Mt. Philo Road
Spear Street
Dorset Street
Church Hill Road
Ethan Allen Highway
Lake Road
Pond Road
Long View Drive
Commerce Park
Commerce Avenue
Blair Park
Kimball Brook Road
Dugway Road
Silver Maple Drive
Ridge Road
Hillcrest Road
Meadow Drive
Falls Road
Bay Road
Lime Kiln Road
Lime Kiln Road
Lime Kiln

Popple Dungeon Road

PP2

Magnetic North

0' 20' 40' 80' 120'

Bar Scale 1" = 20'

Notes

1. Orientation is based on Magnetic North.
2. An assumed project elevation was established using a Garmin E-Trex GPS as a Reference.
3. This plan was prepared without the benefit of DIG-SAFE. The location of underground utilities is now warranted to be exact or complete. Contact DIG-SAFE prior to any excavation.
4. This plan is in no way a boundary survey.
5. See Sheet 3 for Basis of Design and Soil Log information.

Approximate location of underground power

Stone Drive

LOT 5A
Area = 8± acres

LOT 5B
Area = 3± acres

75' downslope setback to building with foundation drain

Existing ground slope = 1%

25' effluent dispersal area to remain undisturbed.

Effective basal area

New Lot 5B Wastewater Disposal Mound
Use 1, 10' wide x 56' long bed with 8" of stone under the pipe.
Lay line level @ 173.66'.

New 2" Cl 200 PVC force main 5' min. cover.

Well shield

Hub

TBM #1
Wooden Hub
Elev. = 171.81'
FBK 385/ Page 65

TBM #2
Wooden Hub
Elev. = 163.45'
FBK 385/ Page 65

New Lot 5A Wastewater Disposal Mound.
Use 1, 8.5' wide x 75' long bed with 8" of stone under the pipe.
Lay line level @ 164.17'.

New 2" Cl 200 PVC force main 5' min. cover.

25' effluent dispersal area to remain undisturbed.

Effective basal area

Existing ground slope = 6%

Stone Drive

Boulder

Existing Garage
(Drive Through)

Buried Propane

Buried Propane Line

New 4" PVC SDR 35. S=1/4"/ft.

New 1000 gallon precast concrete pump station.

Stone Parking

Transformer

Flower Bed

Chimney

Brick

HVAC

Ex. Septic Tank

Existing House

Porch

Approximate location of existing wastewater disposal system

Approximate location of existing water service connected to West Wind water system

Building envelope for Lot 5B

The locations of the septic tank and pump station are shown for illustrative purposes. The exact location will be determined when the house is sited. Tanks will be a minimum of 50' from any drilled well and a minimum 10' from building foundations.

New 1000 gallon 2 compartment precast concrete septic tank with effluent filter and risers to ground surface.

Maintain a minimum separation distance of 25' between the water service and the wastewater disposal system and wastewater tanks.

New 1" k copper water service. 6' min. cover.

New 4" cast iron sanitary sewer from house. S=1/4"/ft.

New 1000 gallon precast concrete pump station.

New 4" PVC SDR 35. S=1/4"/ft.

Proposed Lot 5B new well

Approximate Property Line

The condition of the existing septic tank shall be inspected by the Engineer. If the tank is satisfactory, install new effluent filter and risers to ground surface. If the tank is unsatisfactory, install new 1000 gallon 2 compartment precast concrete septic tank with effluent filter and risers to ground surface.

Percolation Tests

Test #	Percolation Rate	Depth of Test
1	5 min/inch	20 inches
2	22 min/inch	20 inches
3	14 min/inch	20 inches
4	10 min/inch	20 inches
5	4 min/inch	20 inches

For Percolation rate of 0-60 minutes per inch,
Required effective basal area = Design Flow/0.74 GPD/SF
Required Lot 5B = 560/0.74 GPD/SF = 756.8 SF
Required Lot 5A = 630/0.74 GPD/SF = 851.4 SF

Provided Lot 5B = 1120.0 SF
Provided Combined Replacement = 1500.0 SF

See Sheet 3 for Basis of Design and Soil Log information.

Location Map
N.T.S.

Legend

- Survey control point
- Temporary bench mark
- Iron pipe found
- Soil test pit
- Utility pole
- Percolation test
- Approximate property line
- Easement line
- Primary wastewater area
- Existing water line
- New water line
- Edge of trees
- Existing contour interval
- Finish grade contour
- Approximate property line
- New force main

Date revised	Description	Checked	Date
January 12, 2010	Lot 5B well relocated	swh	1/12/10
August 25, 2009	systems reconfigured to eliminate replacement	swh	8/25/09
June 8, 2007	separation distance to water, replacement area note	swh	6/8/07

Design SWH
Drawn BHO/SWH
Checked
Scale 1" = 20'
Date April 17, 2007
Project 04189

Wastewater Disposal Plan

Mary Beth Olsen
(formerly Mary Beth Freeman)

Popple Dungeon Road — Charlotte, Vermont

KREBS & LANSING Consulting Engineers, Inc.
164 Main Street, Colchester, Vermont 05446

File name: ww-plan-10.dwg
Drawing date: FBK 385