EXHIBIT
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CONSTRUCTION PROCEDURES
CONVENTIONAL DISPOSAL SYSTEM

1. PRIOR TO ANY CONSTRUCTION the owner shall notify the Designer to stake out the septic field. The owner should arrange for the Designer to review the design on-site with the Contractor. Construction is to take place between April 1st and Dec. 1st.
2. When the area is sufficiently dry, the trenches shall be formed to the depth shown on the plans. Rake the bottom and sides of the disposal trenches. Make sure bottom of trenches is level and at the correct elevation.
3. Using a bucket on the crawler, dump the stone in the trenches. Level the stone to the desired elevation.
4. At the location of the distribution pipe, make a channel about 6" deep by using a shovel. Lay the distribution pipe in the stone. The distribution pipe shall be laid level with the holes pointing downward. Remove dips and rises which occur in the pipe. Arrange with the Designer so he may observe the piping in the stone.
5. Construct sewer line appurtenances, including septic tank and pump station. All gravity piping shall be at a minimum slope of 1/4" per foot. All appurtenances shall be inspected for proper materials, construction and watertightness by the Designer. Do not backfill until inspected by the Designer. All force mains shall be pressure and leakage tested in accordance with Appendix 1A of the latest Environmental Protection Rules, Chapter 1. The Designer shall be contacted 48 hours prior to the force main testing.
6. If effluent contaminated soil is encountered during excavations, it shall be removed from the site and disposed of properly or the Designer is to be notified for application to the VT ANR for on-site disposal.
7. Notify the Designer for inspection of the installation and to observe pressure distribution, prior to testing of pump station and piping with clean water. Distribution shall be within 10% throughout the field. Finish placing stone over the distribution pipe.
8. Place filter fabric over the top of the trench.
9. Place 6 inches of soil over the field followed by 6 inches of topsoil on the top of the field, mounding the backfill to allow for settlement. Provide adequate surface water diversion on uphill sides of disposal area and on the disposal area itself.
10. Prior to October 15, landscape the area by fertilizing, planting grasses and mulching the surface. A mixture of 90% Birdsfoot Trefoil and 10% Timothy may be desired if the disposal area will not be manicured. If manicuring is desired, a combination of 60% Bluegrass, 30% Creeping Red Fescue, and 10% Annual Rye Grass may be the desired vegetative cover. Do not place shrubs directly on top of the system. Mow area annually. If system is completed after October 15th temporarily seed with Annual Rye Grass and mulch. After May 15th install permanent plantings. Contact Designer to observe site after completion of final grading, seeding and mulching.
11. The system is not considered complete until it is operating as intended and adequate grading and vegetation has been established.

Test Pit Logs
Observed by Trudell Consulting Engineers, Inc.
December 9, 1985

TP-1
0 – 1.5' Topsoil
1.5' – 3.7' Red brown medium to coarse sand.
3.7' – 6.0' Coarse sand, fine gravel.
No ledge or groundwater to depth.

TP-2
0 – 0.8' Topsoil
0.8' – 2.6' Red brown medium sand.
2.6' – 4.1' Coarse sand, oxidation staining at 4.1' interface.
No ledge or groundwater to depth.

TP-3
0 – 0.8' Topsoil
0.8' – 1.2' Red brown medium sand
1.2' – 3.2' Brown medium sand.
3.2' – 5.5' Coarse sand, fine gravel.
No ledge or groundwater to depth.

TP-10
0' – 1' Sandy topsoil.
1' – 1.2' Red brown medium sand.
1.2' – 3' Lighter brown medium sand.
3' – 4' Denser gray fine sand.
4' – 6' Coarse gray sand.
No ledge or groundwater to depth.

TP-11
0' – 1' Sandy topsoil.
1' – 2.5' Coarse red brown fine gravel, loose
2.5' – 5' Coarse gray sand.
No ledge or groundwater to depth.

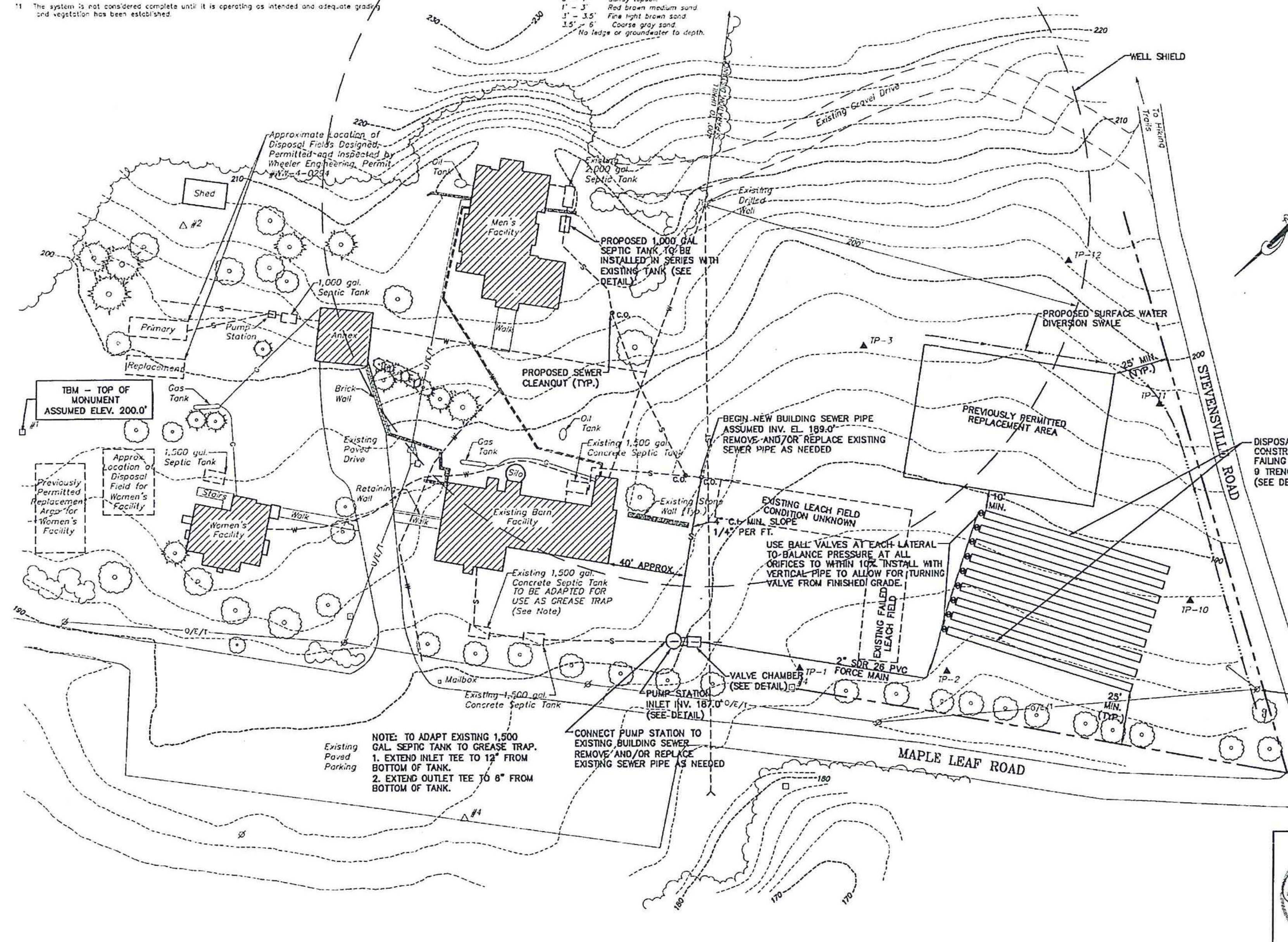
TP-12
0' – 1' Sandy topsoil.
1' – 3' Red brown medium sand.
3' – 3.5' Fine light brown sand.
3.5' – 6' Coarse gray sand.
No ledge or groundwater to depth.

Legend

Approx. Property Line
Overhead Electric/Telephone
Underground Electric/Telephone
Existing Water Line
Existing Sanitary Line
Existing Natural Gas Line
Existing Storm Line
Existing 10' Contour
Existing 2' Contour
Well Shield
Proposed Swale
Concrete Monument Found
Utility Pole
Test Pit
Proposed Cleanout
Percolation Test
Calculated Point, as per Ref. Plan #1
Ball Valve
Edge of Woods
Existing Deciduous Tree
Existing Coniferous Tree

Location Map

PROJECT LOCATION



NOTE: ELEVATIONS OF EXISTING BUILDINGS AND SEWER LINES ARE ASSUMED. CONTRACTOR IS TO CONFIRM THESE ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION. CONSULT ENGINEER IF ACTUAL ELEVATIONS ARE DIFFERENT THAN THE ASSUMED ELEVATIONS.

DISPOSAL FIELD TO BE CONSTRUCTED TO REPLACE FAILING SYSTEMS
9 TRENCHES @ 4' x 100'
(SEE DETAIL)

UTILITY POLE W/ TRANSFORMER

WATER SUPPLY
REQUIRED SEPARATION DISTANCE
As per Vermont Water Supply Rule – Chapter 21

Average Day Demand for Entire Facility:
33 beds max. X 125 gpd/person = 4,125 gpd
20 staff max. X 35 gpd/person = 700 gpd
150 visitors max X 5 gpd/person = 750 gpd
Total Average Day Demand = 5,575 gpd

Low Flow Fixture Credit = 0.9 X 5,575 gpd = 5,018 gpd

Maximum Daily Demand: 5,018 gpd / 720 min. = 6.97 gpm

Disposal Field Design Flow: 4,230 gpd

Downslope Separation: 200 ft

Upslope Separation: 400 ft

Reference Plans:

1. "Utility Plan #1 (Phase II)", Maple Leaf Farm by Trudell Consulting Engineers, Inc. Dated 8/7/87.
2. "Layout Plan (Phase II)", Maple Leaf Farm by Trudell Consulting Engineers, Inc. Dated 8/7/87.
3. "Sewer and Water Details", Maple Leaf Farm by Trudell Consulting Engineers, Inc. Dated 8/7/87.

SCANNED

Design Qualification

This design is intended to amend permit #PB-4-1280-1 to use the previously permitted disposal area for a new barn building as a replacement for the failing septic areas currently used by the men's facility and the existing barn building.

Reference is made to plans referenced in PB-4-1280-1 prepared by Trudell Consulting Engineers which have been stamped approved by the Wastewater Division. Existing septic systems for the Annex and the Women's facility shown approximately as described on reference plans for WW-4-0294 and PB-4-1280-1, respectively.

This design meets the standards of the Environmental Protection Rules of the Agency of Natural Resources. No guarantee is made as to the ability of this system to be constructed, or to function as intended, unless the same is constructed pursuant to plans of greater detail. Furthermore, this design has been prepared for the regulatory permit process and may not sufficiently detail all the items necessary for construction.

The Contractor is to notify Dig-Safe (Tel. 1-888-344-7233) 48 hours prior to any excavation.

The Contractor shall be insured for the work to be performed, and shall be prepared to furnish a Certificate of Insurance.

It is noted that no site assessment of hazardous or other waste materials has been made and Summit Engineering, Inc. takes no responsibility for any materials or conditions that may exist on this site.

0 INCHES 1 2 3

"APPROVED"
Department of Environmental Conservation
Approved By: WC
Permit #: WW-4-0294-1
DATE: 4-1-04
MAR - 9 2004

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 inch = 30 ft.

WW-4-0294-1

STATE OF VERMONT
DOUGLAS F. [illegible]
NO. 74[illegible]
REGISTERED PROFESSIONAL ENGINEER
FILE NAME: WOIR00

SURVEY: OTHERS	SUMMIT ENGINEERING, INC Engineers • Surveyors • Planners • Landscape Architects 50 Joy Drive P.O. Box 2225 South Burlington, VT 05407-2225 Bus. (802) 658-5588 Fax (802) 658-3629	WASTEWATER SITE PLAN	DATE: 2/23/04	
DESIGNED: BTG		MAPLE LEAF FARM MAPLE LEAF ROAD UNDERHILL, VERMONT ©	DRAWING NO. SHEET 1 OF 3	
DRAWN: BTG			PROJECT NO. 7796	
CHECKED: DFH				
SCALE: 1"=30'				