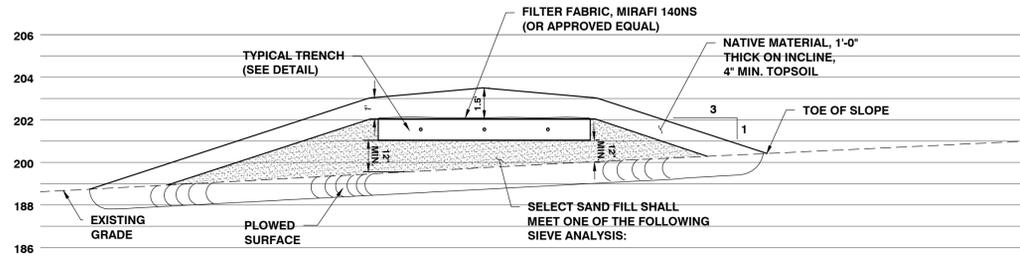


	Horizontal Distance (Feet)		Sewer
	Leach field	Septic Tank	
Drilled Well Serving 1 Home - Up Slope of Disposal Field	100 (Min.) <sup>1</sup>	50	50
Drilled Well Serving 1 Home - Down Slope of Disposal Field	200 (Min.) <sup>1</sup>	50	75
Shallow Well or Spring, Up Slope of Disposal Field	150 (Min.) <sup>1</sup>	50	75
Shallow Well or Spring, Down Slope of Disposal Field	500 (Min.) <sup>1</sup>	25	25
Lakes, Ponds and Impoundment	50	25	10
Rivers, Streams	50	25	10
Drainage Swales, Roadway Ditches	25	-	-
Municipal Water Main	50	50	10
Service Water Lines	25	25	10
Roadways, Driveways, Buildings	10	5	5 <sup>4</sup>
Top of embankment or slope > 30%	25	10	10
Property Line	10 (25 Downslope) <sup>2</sup>	10	10
Trees	10	10	10
Replacement Area	10	-	-
Foundation, Footing Drains	35 (75 Downslope) <sup>3</sup>	10	-

- Isolation distances to well locations may vary due to site conditions - contact Engineer for verification with the Vermont Water Supply Rule Regulations.
- For mound disposal systems, the limit of mound fill must be 25 feet from any downhill property line and 10 feet from side or uphill property lines.
- If a curtain or foundation drain is downslope of the leach field, the leach field cannot be closer than 75 feet to the drain. If the drain is upslope of the leach field, it shall be 35' if possible and 20' minimum.
- Sewers under roads, driveways or parking lots may require protective conduits or sleeves.

**MINIMUM ISOLATION DISTANCES**  
(CONTACT ENGINEER FOR ANY CLARIFICATIONS OR CONFLICTS)



SIEVE #	% PASSING	SIEVE #	% PASSING	SIEVE #	% PASSING
3/8	85-100	4	95-100	3/8	85-100
40	25-75	8	80-100	40	30-50
60	0-30	16	50-85	200	0-10
100	0-10	30	25-60		
200	0-5	50	10-30		
		100	2-10		

**TYPICAL MOUND SECTION**

1/4" = 1'-0"

SWR-100

REVISED 08/01/2014

SWR-024

REVISED 10/31/2014

SITE ENGINEER:



CIVIL ENGINEERING ASSOCIATES, INC.  
10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403  
802-864-2323 FAX: 802-864-2271 web: www.cca-vt.com

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DRAWN  
**MAB**  
CHECKED  
**DSM**  
APPROVED  
**DSM**



CLIENT:

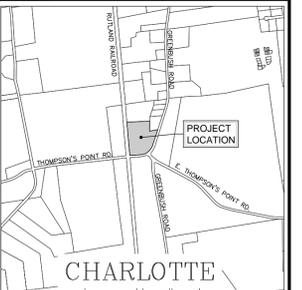
**LaBERGE**

4650 GREENBUSH ROAD  
CHARLOTTE  
VERMONT 05445

PROJECT:

**PROPOSED  
ACCESSORY  
STRUCTURE**

4650 GREENBUSH ROAD  
CHARLOTTE  
VERMONT 05445



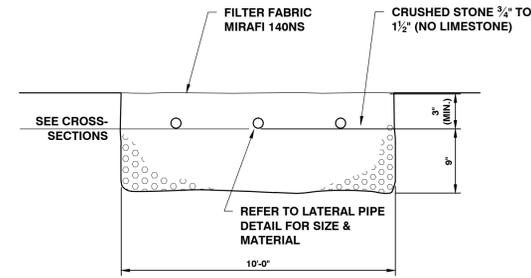
**LOCATION MAP**

1" = 200'

DATE	CHECKED	REVISION

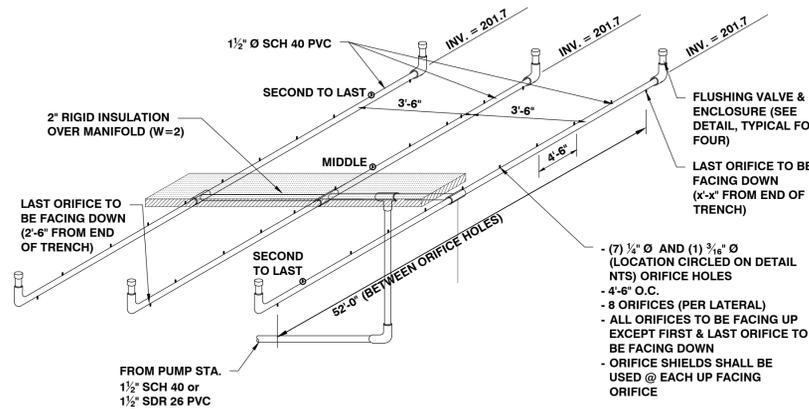
**DETAILS**

DATE	DRAWING NUMBER
--	<b>C2.0</b>
SCALE <b>AS SHOWN</b>	
PROJ. NO. <b>16162</b>	



**TYPICAL DISPOSAL FIELD BED SECTION**

N.T.S.



**TRENCH PIPING DETAIL**

N.T.S.

**Wastewater Disposal System Design  
Laberge Mound Site  
12-Apr-17**

420 GPD Bedrooms = 3  
140 1 - BR Apartment  
560 Total  
0.58 Average Daily Flow (GPM)

10 Allowable application per linear foot (GPD/LF)  
56 Linear feet of Trench Required (FT)  
56 Equivalent Linear feet of Bed Proposed (FT)

**Dosing Requirements**

- 1.5 Diameter of Distribution Pipe (Inches)
- 3 Number of Distribution Pipes
- 162 Length of Distribution Pipe (FT)
- 14.9 Distribution System Volume (Gallons)
- 5.00 Required Dose Volume Factor
- 74 Required Minimum Dose Volume (Gallons)
- 4.00 Minimum Required Doses per Day
- 140 Maximum Dose Allowed (Gallons)
- 75.00 Chosen Dose Volume (Gallons)
- 5.00 Recommended Pumping Duration per Dose (Minutes)
- 15.00 Recommended Pumping Rate w/o Inflow (GPM)
- 15.58 Recommended Pumping Rate with Inflow (GPM)
- 29.00 Chosen Flow Rate (GPM)

**Distribution Requirements**

- 10 Trench width (FT)
- 560 Total Trench Area (SF)
- 25 Maximum Area per orifice Hole (SF)
- 22 Required Number of Orifice Holes
- 27 Number of Orifice Holes Proposed
- 0.56 Avg. Flow per Orifice (GPM)

204.75 Effluent Elevation Head

**Bed 1**

- 24 Total # of orifices
- 560 Total Design Flow (GPD)
- 56 Total Length of Trench (FT)

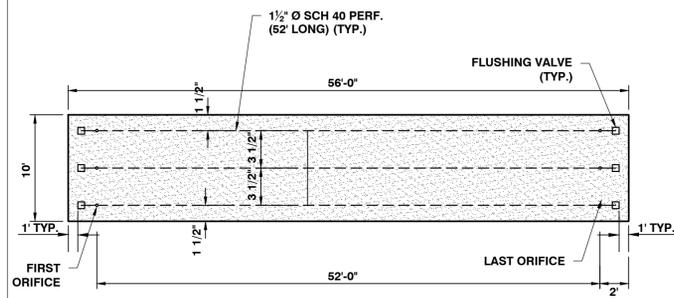
- 29.0 Chosen Design Flow (GPM)
- 28.95 Total Actual Design Flow (GPM)
- 0.17% Percent Delta from Design

SWR-014

REVISED 09/23/2016

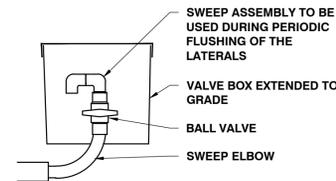
DET-022

REVISED 10/31/2014



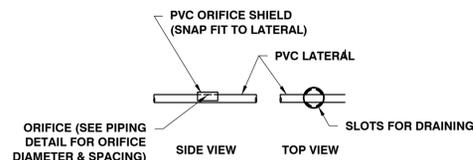
**BED LAYOUT PLAN**

N.T.S.



**FLUSHING VALVE DETAIL**

N.T.S.



**ORIFICE SHIELD DETAIL**

N.T.S.

SWR-023B

REVISED 4/18/2017

SWR-013

REVISED 10/17/2014