

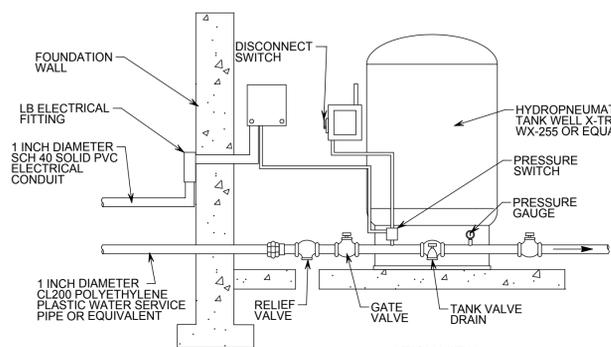
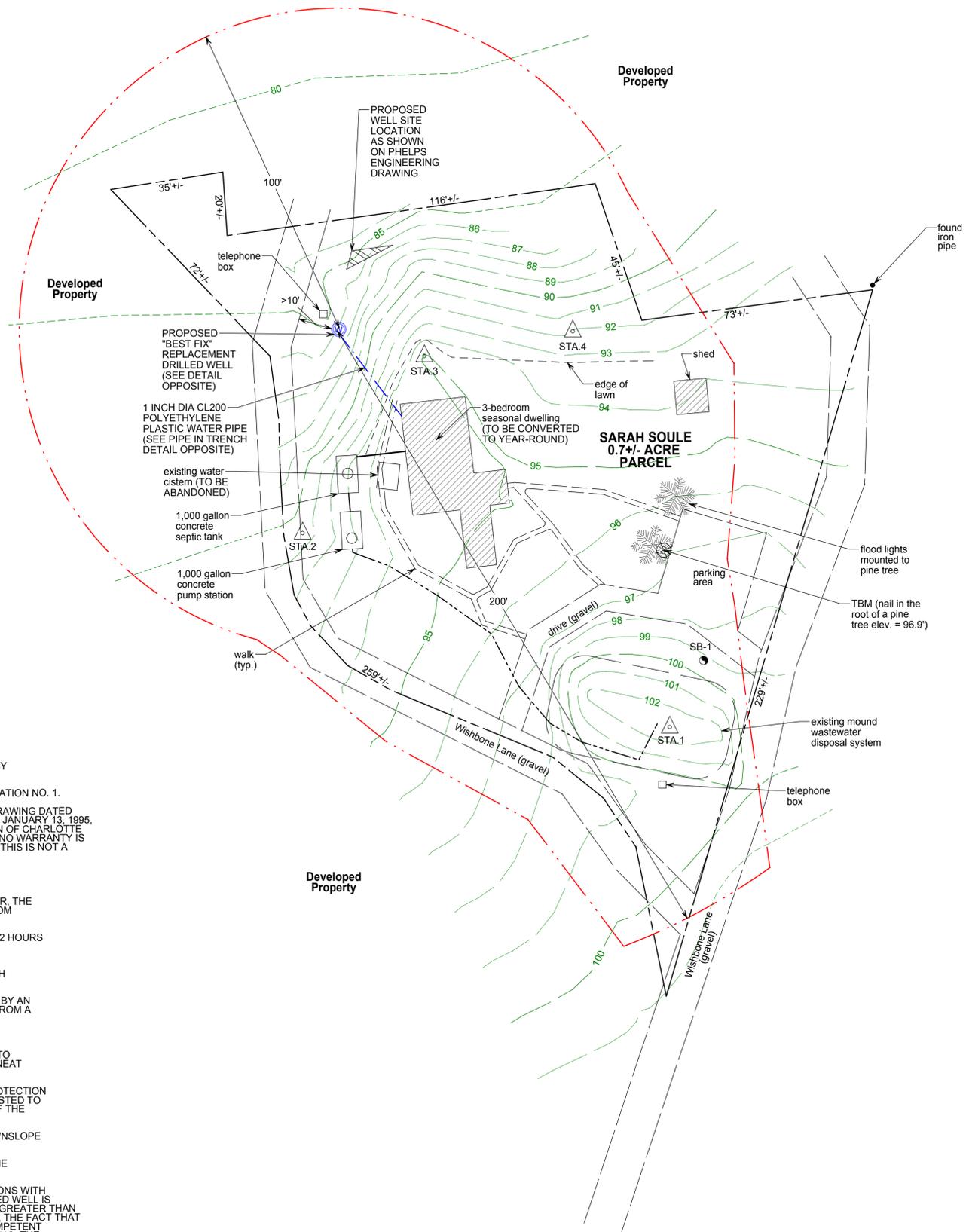


Project Location Map
Not to Scale

- LEGEND**
- Boundary Line/ROW
 - Edge of Road (Surface Labeled)
 - Edge of Drive (Surface Labeled)
 - 100 --- 1 Foot Ground Surface Contour
 - 100 --- Finish Grade
 - 100 --- Interpolated Ground Contour (Based on USGS Data From The ANR Environmental Interest Locator)
 - Gravity Sewer
 - 1-Inch Diameter CL200 Polyethylene Plastic Water Line (Unless Otherwise Noted)
 - Well Isolation
 - Wastewater Isolation
 - Zoning Setbacks
 - SF --- Silt Fence
 - UE --- Electrical Conduit
 - Tree Line
 - Proposed Limits of Clearing
 - Utility Pole
 - △ Survey Traverse Station
 - △ Temporary Bench Mark (Type and Elevation Noted)
 - ⊙ Test Pit (TP-01)
 - ⊙ Soil Boring (SB-01)
 - ⊙ Percolation Test (PT-01)
 - ⊙ Drilled Well (Unless Otherwise Noted)

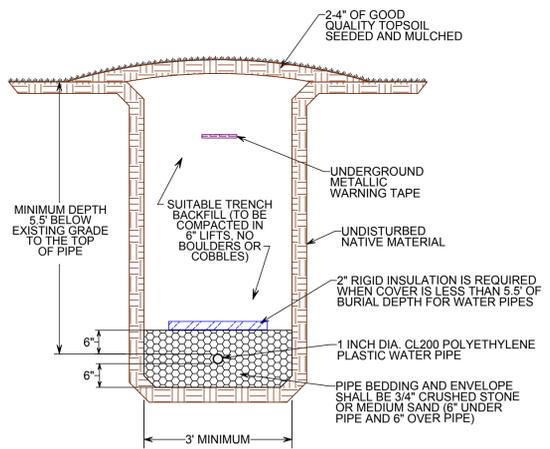
PROJECT NOTES

1. THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY CONDUCTED BY BARNARD AND GERVAIS, LLC ON APRIL 20, 2016.
2. ELEVATIONS ARE BASED ON AN ASSUMED ELEVATION OF 103.00' AT STATION NO. 1.
3. PROPERTY LINES ARE BASED ON A PHELPS ENGINEERING RECORD DRAWING DATED DECEMBER 7, 1994. A SURVEY BY VERMONT LAND SURVEYORS DATED JANUARY 13, 1995. A SURVEY BY McINTOSH & CRANDALL DATED OCTOBER 26, 1926. TOWN OF CHARLOTTE TAX MAPS AND INFORMATION PROVIDED BY THE PROPERTY OWNER. NO WARRANTY IS MADE TO THE ACCURACY OF THE BOUNDARY LINES SHOWN HEREON. THIS IS NOT A BOUNDARY SURVEY.
4. FOR CLARITY, TEXT IDENTIFYING EXISTING ITEMS ARE LOWER CASE, AND TEXT IDENTIFYING PROPOSED ITEMS ARE UPPER CASE.
5. BASED ON VERBAL INFORMATION PROVIDED BY THE PROPERTY OWNER, THE 0.7+- ACRE PARCEL WAS CREATED AND DEVELOPED WITH A 3-BEDROOM SINGLE-FAMILY RESIDENCE PRIOR TO JANUARY 1, 2007.
6. THE CONTRACTOR SHALL NOTIFY THE DIG SAFE NETWORK AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
7. ALL EXCAVATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE STATE OF VERMONT, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (VOSH) GUIDELINES FOR TRENCH EXCAVATIONS.
8. THE EXISTING 3-BEDROOM SEASONAL DWELLING IS PROVIDED WATER BY AN EXISTING ON-SITE CISTERN. IN ORDER TO CONVERT THE STRUCTURE FROM A SEASONAL TO A YEAR-ROUND DWELLING, A "BEST FIX" REPLACEMENT WASTEWATER SYSTEM IS BEING PROPOSED.
9. THE PROPOSED "BEST FIX" REPLACEMENT DRILLED WELL SHALL BE CONSTRUCTED WITH A MINIMUM OF 50 FEET OF CASING INSTALLED INTO COMPETENT BEDROCK. THE WELL CASING SHALL BE SEALED WITH A NEAT CEMENT GROUT.
10. IN ACCORDANCE WITH THE STATE OF VERMONT, ENVIRONMENTAL PROTECTION RULES, EFFECTIVE SEPTEMBER 29, 2007, A VARIANCE IS BEING REQUESTED TO INSTALL THE "BEST FIX" REPLACEMENT DRILLED WELL AS A RESULT OF THE FOLLOWING CONDITIONS:
 - 10A. THE PROPOSED DRILLED WELL IS LOCATED WITHIN 200 FEET DOWNSLOPE OF THE EXISTING MOUND WASTEWATER DISPOSAL SYSTEM.
 - 10B. THE PROPOSED DRILLED WELL IS LOCATED WITHIN 50 FEET OF THE EXISTING SEPTIC TANK.
 - 10C. BASED ON A REVIEW OF THE SURROUNDING AREA AND DISCUSSIONS WITH ADJOINING LANDOWNERS, THE PROPOSED REPLACEMENT DRILLED WELL IS LOCATED GREATER THAN 100 FEET FROM ANY DOWNSLOPE AND GREATER THAN 200 FEET FROM ANY NEARBY WASTEWATER SYSTEMS. FURTHER, THE FACT THAT THE DRILLED WELL CASING WILL BE INSTALLED 50 FEET INTO COMPETENT BEDROCK AND WILL BE GROUTED THE FULL LENGTH OF THE CASING, THE PROPOSED DRILLED WELL IS NOT AT SIGNIFICANT RISK OF BEING IMPACTED BY SURROUNDING WASTEWATER DISPOSAL SYSTEMS.

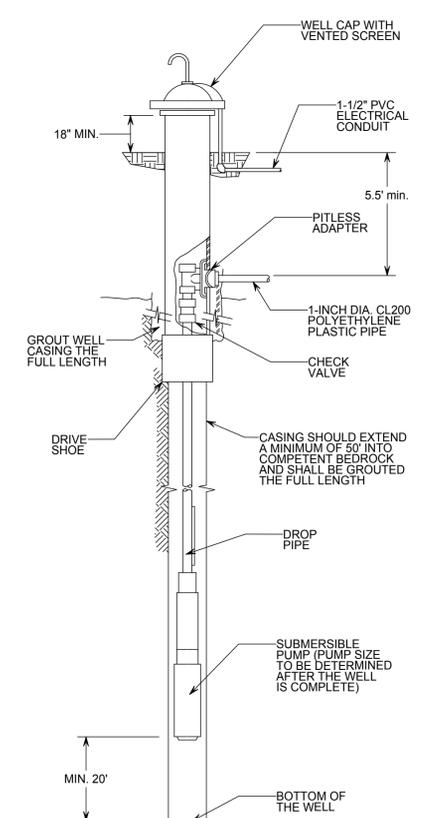


- NOTES:**
1. HYDROPNEUMATIC TANK TO BE A WELL X-TROL WX-255 OR EQUAL.
 2. PRESSURE SWITCH SETTING 30-50 PSI.
- SCHEMATIC ONLY**
- NOTE:**
- ALL INTERIOR PLUMBING AND WATER DISTRIBUTION DESIGN TO BE PERFORMED ACCORDING TO APPLICABLE PLUMBING CODE BY A LICENSED PROFESSIONAL

TYPICAL COMPONENTS FOR A DRILLED WELL SUBMERSIBLE WELL PUMP WATER SYSTEM
NOT TO SCALE

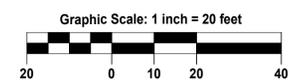


GRASSED AREA WATER PIPE IN TRENCH DETAIL
NOT TO SCALE



- NOTES:**
1. THE DRILLED WELL SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPENDIX A PART 12 OF THE VERMONT WATER SUPPLY RULE.
 2. THE DRILLED WELL SHALL BE CONSTRUCTED WITH A MINIMUM OF 50 FEET OF CASING INSTALLED INTO COMPETENT BEDROCK AND THE CASING SHALL BE GROUTED WITH A NEAT CEMENT GROUT THE FULL LENGTH OF THE WELL CASING.
 3. THE PROPOSED REPLACEMENT DRILLED WELL IS CONSIDERED A "BEST FIX" IS LOCATED WITHIN 200 FEET DOWNSLOPE OF THE EXISTING SYSTEM AND MAYBE LOCATED WITH 100 FEET OF OTHER OFF-SITE DISPOSAL SYSTEMS.

DRILLED WELL CONSTRUCTION DETAIL
NOT TO SCALE



PERMITTING TITLE: SITE PLAN AND WATER SYSTEM DETAILS SIGNATURE: JASON S. BARNARD LICENSED DESIGNER #430-B	BARNARD & GERVAIS, LLC Land Surveying Water & Wastewater Environmental Consulting 167 Main Street Errol, VT 05450 Telephone: (802) 933-5168 email: michael@barnardandgervais.com 4400 VT Route 17 Starksboro, VT 05487 Telephone: (802) 433-2597 email: jason@barnardandgervais.com	
	SARAH SOULE REPLACEMENT WATER SYSTEM AND SEASONAL DWELLING CONVERSION 42 WISHBONE LANE CHARLOTTE, VERMONT	
DATE: MAY 27, 2016 SCALE: 1" = 20' DRAWN BY: CS CHECKED BY: JB	REVISIONS:	DRAWING NO. <div style="text-align: center; font-size: 2em; font-weight: bold;">1</div> SHEET 1 OF 1