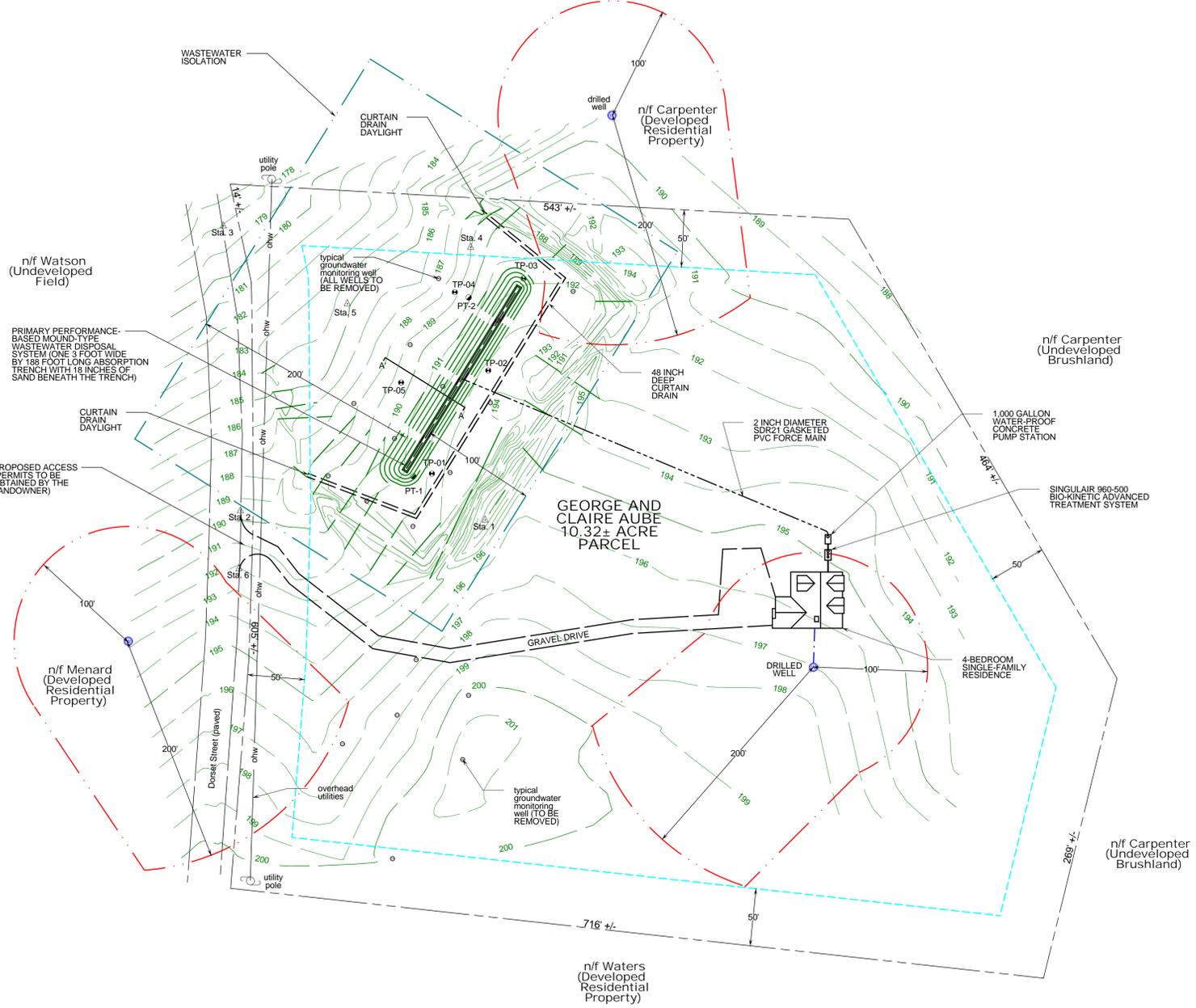


**Project Location Map**  
Not to Scale

**LEGEND**

- Boundary Line/ROW
- Edge of Road (surface labeled)
- Edge of Drive (surface labeled)
- 1 Foot Ground Surface Contour
- 1 Foot Finish Grade Contour
- Gravity Sewer
- 1-Inch Diameter Polyethylene Plastic Water Line
- Well Isolation
- Wastewater Isolation
- Zoning Setback
- Tree Line
- Proposed Limits of Clearing
- Utility Pole
- Traverse Station
- TBM
- Temporary Bench Mark (type and elevation noted)
- Test Pit (TP-01)
- Percolation Test (PT-01)
- Drilled Well (Unless Otherwise Noted)
- Groundwater Monitoring Well



**PROJECT NOTES**

1. THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY CONDUCTED BY JASON BARNARD CONSULTING, LLC WITH NIKON NPL-522 THREE SECOND TOTAL STATION ON AUGUST 20 AND OCTOBER 12, 2010.
2. ELEVATIONS ARE BASED ON AN ASSUMED ELEVATION OF 200.00' AT STATION NO. 1.
3. THIS IS NOT A BOUNDARY SURVEY.
4. FOR CLARITY, TEXT NOTING EXISTING ITEMS ARE LOWER CASE, AND TEXT NOTING PROPOSED ITEMS ARE UPPER CASE.
5. THE PROPERTY BOUNDARIES ARE BASED ON THE TOWN OF CHARLOTTE TAX MAPS, A GEORGE BEDARD SURVEY PLAT DATED JULY 21, 1984 AND PHYSICAL EVIDENCE FOUND DURING THE THE AUGUST 20, 2010 TOPOGRAPHIC SURVEY. NO WARRANTY IS MADE TO THE ACCURACY OF THE BOUNDARY LINES SHOWN HEREON.
6. THE WASTEWATER DISPOSAL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE STATE OF VERMONT, AGENCY OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, "WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES" EFFECTIVE ON SEPTEMBER 29, 2007.
7. THE LICENSED DESIGNER IS NOT RESPONSIBLE FOR THE WATER SUPPLY WELL YIELD, SINCE A SCIENTIFIC EVALUATION HAS NOT BEEN PERFORMED AS PART OF THIS PROJECT.
8. THE DESIGNER IS NOT RESPONSIBLE FOR THE LAYOUT OF THE PROPOSED SINGLE-FAMILY RESIDENTIAL STRUCTURES AND/OR ANY OTHER BUILDINGS ASSOCIATED WITH THE PROJECT.
9. THE DESIGNER IS NOT RESPONSIBLE FOR THE DESIGN, LAYOUT OR CONSTRUCTION OF THE PROPOSED DRIVEWAY THAT SERVES THE PROJECT. IT IS THE RESPONSIBILITY OF THE LANDOWNER TO OBTAIN ALL NECESSARY ACCESS/CURB CUT PERMITS FOR THE PROPERTY.
10. THE CONTRACTOR SHALL NOTIFY THE DIG SAFE NETWORK (1-888-344-7233) AT LEAST 72 HOURS IN ADVANCE OF PERFORMING EXCAVATING ACTIVITIES AT THE SITE.
11. THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF HEALTH AND SAFETY, AND THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE VERMONT OCCUPATIONAL HEALTH AND SAFETY AGENCY (VOSHA) GUIDELINES.

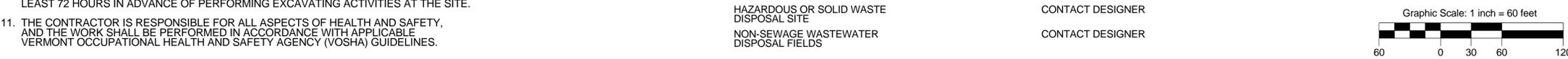
**DRILLED WELL REQUIRED MINIMUM ISOLATION DISTANCES**

1. THESE DISTANCES APPLY TO DRILLED WELLS SERVING A SINGLE-FAMILY RESIDENCE, WITH A MAXIMUM DAILY DEMAND OF LESS THAN 1.9 GPM.
2. WELL LOCATION AND CONSTRUCTION MUST COMPLY WITH THE STATE OF VERMONT, AGENCY OF NATURAL RESOURCES, WATER SUPPLY RULE, CHAPTER 21.

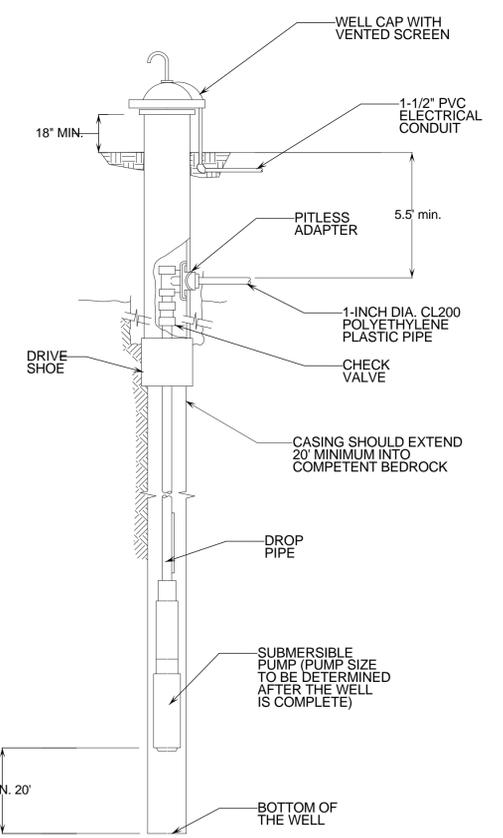
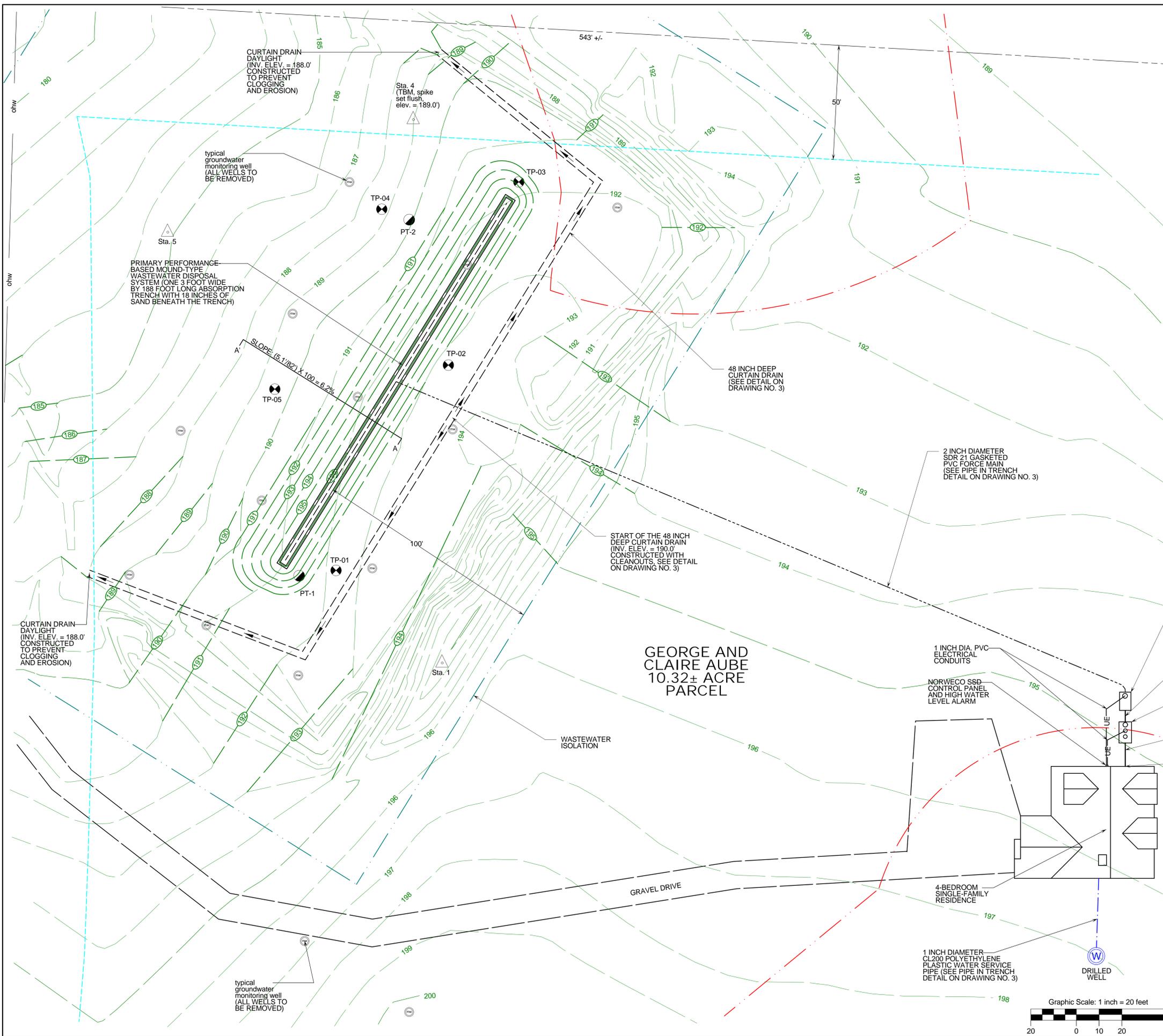
POTENTIAL SOURCE OF CONTAMINATION	SEPARATION DISTANCE
SEWAGE DISPOSAL FIELD WITH FLOWS <2000 GPD	200 FEET IF WELL IS DOWNSLOPE 100 FEET IF WELL IS UPSLOPE
SUBSURFACE WASTEWATER PIPING	50 FEET
EDGE OF ROADWAY OR PARKING LOT	25 FEET
EDGE OF RESIDENTIAL DRIVE SERVING 3 RESIDENCES OR LESS	15 FEET
PROPERTY LINE	10 FEET (50 FEET IF ADJACENT TO CROPLAND)
BUILDINGS	10 FEET
LIMIT OF HERBICIDE APPLICATION ON UTILITY RIGHT-OF-WAY SURFACE WATER	200 FEET
CONCENTRATED LIVESTOCK HOLDING AREAS AND MANURE STORAGE	10 FEET
HAZARDOUS OR SOLID WASTE DISPOSAL SITE	200 FEET
NON-SEWAGE WASTEWATER DISPOSAL FIELDS	CONTACT DESIGNER
	CONTACT DESIGNER

- TOWN OF CHARLOTTE ZONING REGULATION SETBACKS**
1. THESE SETBACK DISTANCES ARE BASED ON THE LAND USE REGULATIONS FOR THE TOWN OF CHARLOTTE APPROVED ON MARCH 3, 2009.
  2. THESE MINIMUM REQUIRED SETBACKS ARE FOR THE RURAL (RUR) ZONING DISTRICT AND APPLY TO RESIDENTIAL USES.

RURAL (RUR) ZONING DISTRICT	
SETBACKS	DISTANCE
MINIMUM LOT AREA	5 ACRES
MINIMUM DENSITY (RESIDENTIAL)	5 ACRES
MINIMUM FRONTAGE	300 FEET
FRONT YARD SETBACK	50 FEET
FRONT YARD SETBACK ON ROUTE 7	100 FEET
SIDE YARD	50 FEET
REAR YARD	50 FEET
BUILDING HEIGHT MAXIMUM	35 FEET
MAXIMUM BUILDING COVERAGE	20 PERCENT
MAXIMUM LOT COVERAGE	30 PERCENT



<b>PERMITTING</b> TITLE:  OVERALL SITE PLAN  SIGNATURE:  JASON S. BARNARD LICENSED DESIGNER #430-B	<h2 style="margin: 0;">Jason Barnard Consulting, LLC</h2> <p style="font-size: small; margin: 0;">4400 VT Route 17 Starksboro, VT 05487 Telephone: (802) 453-2597 Fax number: (802) 453-8497 E-mail: jbsitotech@hotmail.com</p> <h3 style="margin: 0;">GEORGE AND CLAIRE AUBE 10.32+/- ACRE PARCEL DORSET STREET, CHARLOTTE, VERMONT</h3>
DATE: OCTOBER 27, 2010  SCALE: 1" = 60'  DRAWN BY: JB	REVISIONS:     DRAWING NO.  <b style="font-size: 2em;">1</b>  SHEET 1 OF 3



- 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 LOCATION SHALL ADHERE TO THE ISOLATION DISTANCES SHOWN ON THE DRILLED WELL ISOLATION TABLE SHOWN ON DRAWING NO. 1.

**DRILLED WELL CONSTRUCTION DETAIL**  
NOT TO SCALE

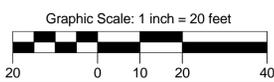
PERMITTING  
TITLE:  
**SITE PLAN AND DRILLED WELL CONSTRUCTION DETAIL**

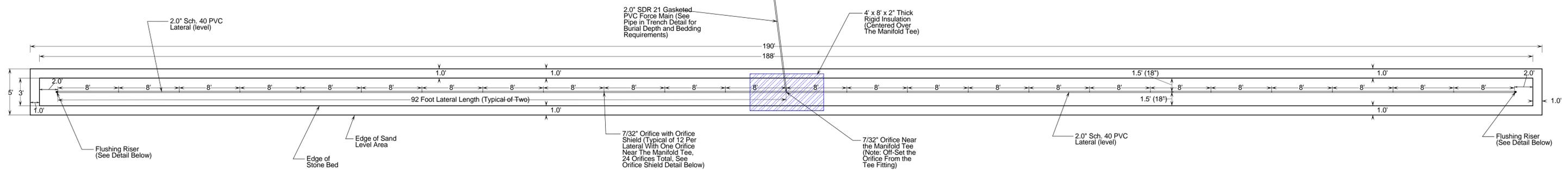
SIGNATURE:  
  
JASON S. BARNARD  
LICENSED DESIGNER #430-B

**Jason Barnard Consulting, LLC**  
4400 VT Route 17  
Starksboro, VT 05487  
Telephone: (802) 453-2597  
Fax number: (802) 453-8497  
E-mail: jbsitotech@hotmail.com

**GEORGE AND CLAIRE AUBE  
10.32+/- ACRE PARCEL  
DORSET STREET,  
CHARLOTTE, VERMONT**

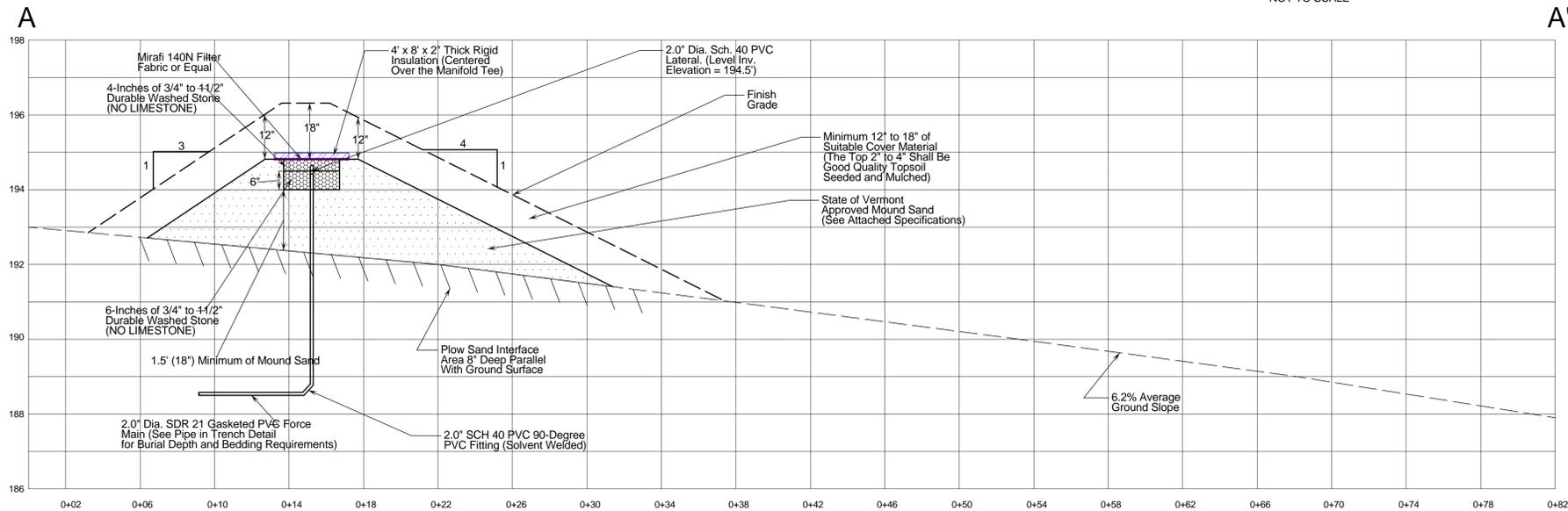
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SCALE: 1" = 20'		SHEET 2 OF 3
DRAWN BY: JB		





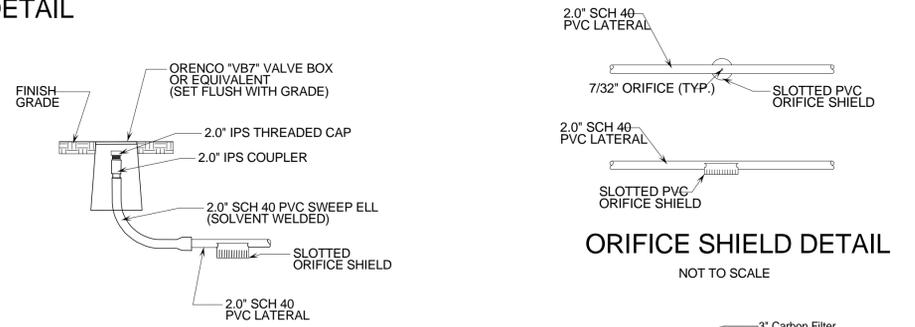
**MOUND WASTEWATER DISPOSAL SYSTEM ABSORPTION BED PLAN VIEW DETAIL**

NOT TO SCALE



**MOUND WASTEWATER DISPOSAL SYSTEM SECTION**

VERTICAL SCALE: 1-INCH = 2- FEET  
HORIZONTAL SCALE: 1-INCH = 4- FEET

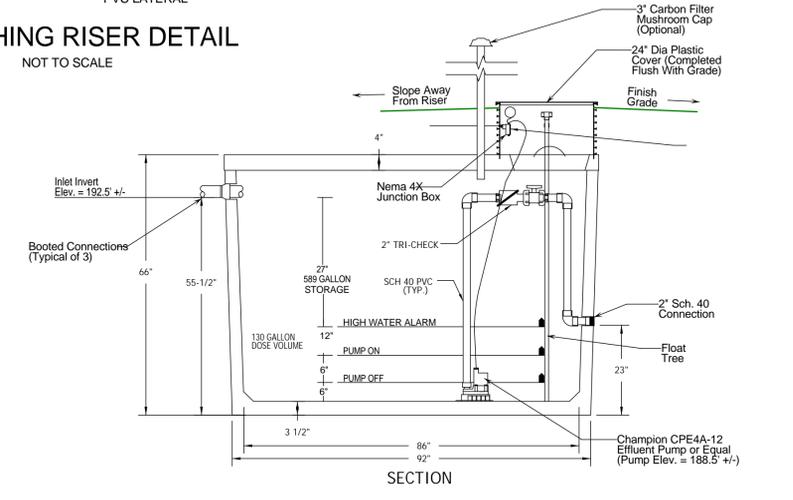


**ORIFICE SHIELD DETAIL**

NOT TO SCALE

**FLUSHING RISER DETAIL**

NOT TO SCALE



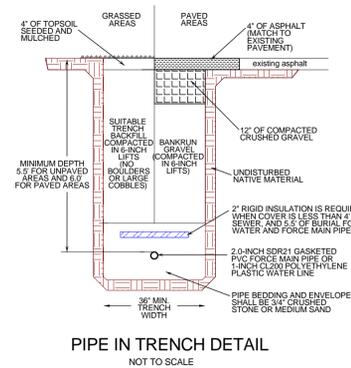
**SECTION**

DESIGNER NOTES:

1. PUMP STATION SHALL BE SET LEVEL ON A MINIMUM OF 6-INCHES OF COMPACTED GRANULAR BASE.
2. PUMP STATION SECTIONS SHALL HAVE BUTYL RUBBER JOINT SEALER.
3. IF WATER-PROOF BOOTED PIPE CONNECTIONS ARE NOT USED, PIPE PENETRATIONS SHALL BE SEALED WITH "WATER PLUG" NON-SHRINK HYDRAULIC CEMENT.
4. THE ON/OFF FLOAT SHALL BE SET AT A 6 INCH SWING SETTING TO PROVIDE A 130 GALLON DOSE VOLUME.
5. HIGH WATER LEVEL ALARM, PUMP STATION AND CONTROL PANEL SHALL BE WIRED BY A LICENSED ELECTRICIAN.
6. THE HIGH WATER ALARM SHALL BE MOUNTED AT A VISIBLE LOCATION.
7. THE PUMP STATION SHALL BE EQUIPPED WITH AN ANTI SIPHON DEVICE.

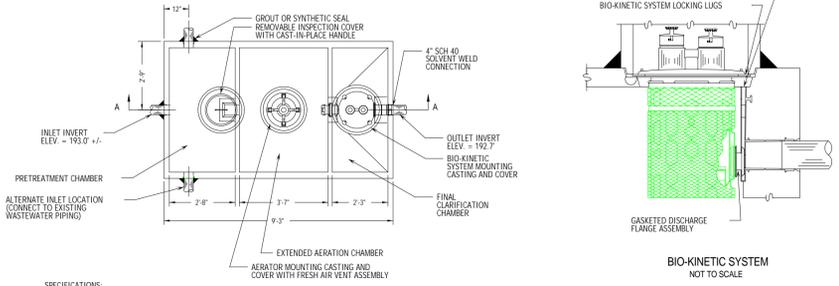
**1,000-GALLON CONCRETE PUMP STATION (TOP SEAM)**

NOT TO SCALE



**PIPE IN TRENCH DETAIL**

NOT TO SCALE

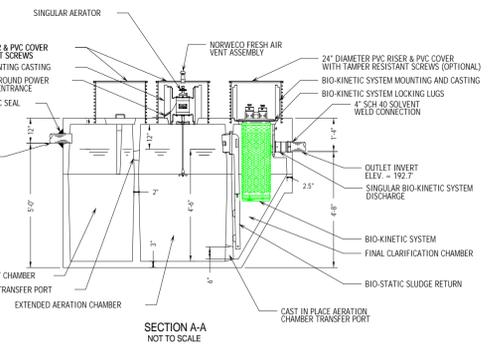


**BIO-KINETIC SYSTEM**

NOT TO SCALE

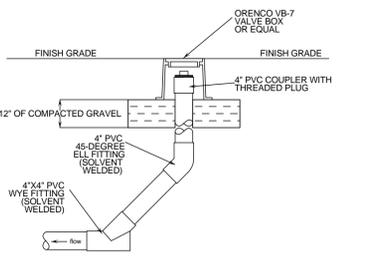
SPECIFICATIONS:  
1. JOINT SEALANT IS BUTYL RUBBER MASTIC, TYPICAL OF CONCRETE CS-102.

NOTES:  
1. TOTAL SYSTEM CAPACITY: 1,300 GALLONS  
2. RATED CAPACITY: 600 GALLONS PER DAY  
3. LINEAR NETWORK NOT TO EXCEED 800 FEET



**MODEL 960-500 GPD SINGLAIR BIO-KINETIC WASTEWATER TREATMENT SYSTEM**

PRODUCT # 960-500

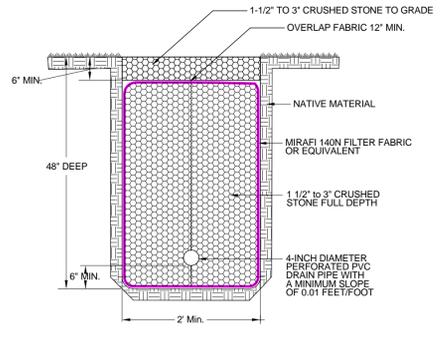


**SECTION**

NOTES:  
1. A CLEANOUT IS REQUIRED AT THE START OF THE CURTAIN DRAIN.  
2. CLEANOUTS SHALL BE COMPLETED FLUSH WITH FINISH GRADE.  
3. THE CONTRACTOR IS RESPONSIBLE FOR COLLECTING TIES TO THE CLEANOUT.

**CURTAIN DRAIN CLEANOUT DETAIL**

NOT TO SCALE



**CURTAIN DRAIN DETAIL**

NOT TO SCALE

**WASTEWATER DISPOSAL SYSTEM CONSTRUCTION AND MAINTENANCE NOTES**

1. THE PRIMARY MOUND-TYPE WASTEWATER DISPOSAL SYSTEM IS DESIGNED IN ACCORDANCE WITH THE STATE OF VERMONT AGENCY OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION RULES, CHAPTER 1 - WASTEWATER SYSTEMS AND POTABLE WATER SUPPLY RULES' EFFECTIVE SEPTEMBER 29, 2007 AND THE SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF CHARLOTTE APPROVED DESIGN DRAWINGS.
2. THE PRIMARY MOUND-TYPE WASTEWATER DISPOSAL SYSTEM LOCATION SHALL BE STAKED OUT BY THE DESIGNER PRIOR TO START OF CONSTRUCTION.
3. ATTACHED MOUND SYSTEM CONSTRUCTION INSTRUCTIONS SHALL BE FOLLOWED DURING THE INSTALLATION OF THE PRIMARY MOUND-TYPE WASTEWATER SYSTEM.
4. THE DESIGNER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR INSPECTIONS OF THE ADVANCED TREATMENT SYSTEM, PUMP STATION, PLOWED LAYER, AND PLACEMENT OF THE MOUND SAND.
5. THE DESIGNER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR A FLOW TEST OF THE MOUND SYSTEM'S PRESSURE DISTRIBUTION NETWORK.
6. WASTEWATER SYSTEM FINISH GRADES WILL VARY WITH NATURAL TOPOGRAPHY, PRIORITY IS TO MAINTAIN 4 ON 1 MOUND FRONT TOE SLOPES AND 3 ON 1 SIDE AND UPHILL TOE SLOPES.
7. IN ACCORDANCE WITH STATE OF VERMONT EPRS, AN ANNUAL SERVICE AND MAINTENANCE CONTRACT FOR THE SINGLAIR MODEL 960-500 ADVANCED TREATMENT SYSTEM SHALL BE IN PLACE AT ALL TIMES.
8. ANNUAL SERVICE AND MAINTENANCE OF THE ADVANCED TREATMENT SHALL BE PERFORMED BY A MANUFACTURER APPROVED SERVICE TECHNICIAN.
9. FOLLOWING THE MOUND WASTEWATER SYSTEM INSTALLATION, FINISH GRADE SHALL BE SEEDED WITH A CONSERVATION GRASS SEED MIX AND MULCHED.
10. WATER SOFTENER BACKWASH, SEPTIC TANK ADDITIVES, GREASE OR SANITIZERS SHALL NOT BE INTRODUCED INTO THE WASTEWATER DISPOSAL SYSTEM.

<p>PERMITTING</p> <p>TITLE:</p> <p><b>WASTEWATER SYSTEM DETAILS AND NOTES</b></p> <p>SIGNATURE:</p> <p>JASON S. BARNARD LICENSED DESIGNER #430-B</p>		<p>4400 VT Route 17 Starksboro, VT 05487</p> <p>Telephone: (802) 453-2597 Fax number: (802) 453-8497 E-mail: jbsittech@hotmail.com</p> <p><b>Jason Barnard Consulting, LLC</b></p> <p><b>GEORGE AND CLAIRE AUBE</b> 10.32+/- ACRE PARCEL DORSET STREET, CHARLOTTE, VERMONT</p>	
DATE:	REVISIONS:	DRAWING NO.	
OCTOBER 27, 2010		3	
SCALE: AS NOTED		DRAWN BY: JB	
		SHEET 3 OF 3	