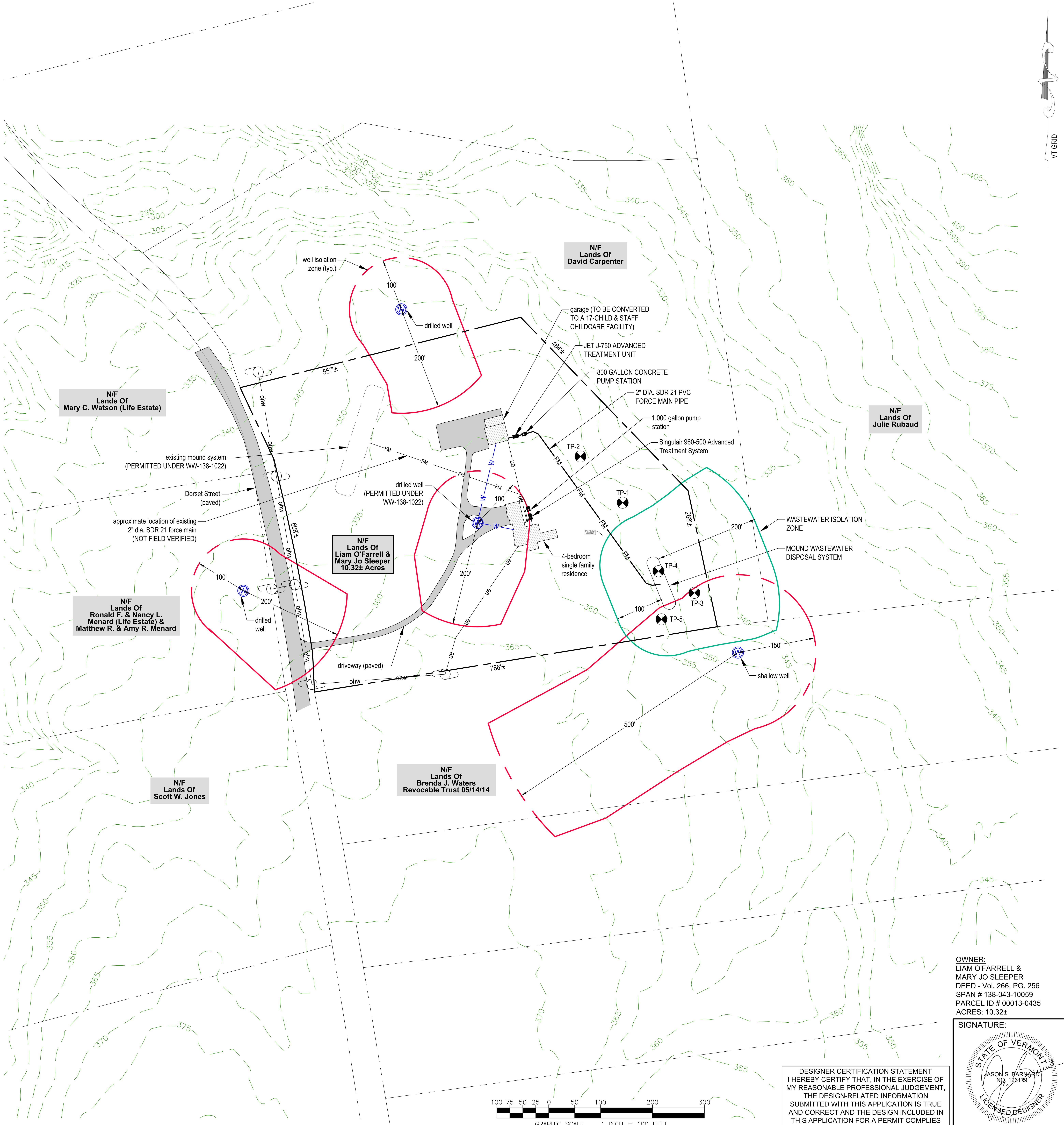
Project Location Map
Not to Scale



LEGEND

- BOUNDARY LINE/ R.O.W. (EXISTING)
- BOUNDARY LINE/ R.O.W. (ABUTTING)
- 100 — 1-FOOT LIDAR CONTOUR (OBTAINED FROM VCGI DATABASE)
- 100 — 1-FOOT GROUND SURVEY CONTOUR
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- ZONING SETBACKS
- TREE LINE
- PROPOSED LIMITS OF CLEARING
- STONE WALL (EXISTING)
- dl — DITCHLINE
- S — GRAVITY SEWER (EXISTING)
- S — GRAVITY SEWER (PROPOSED)
- FM — FORCE MAIN
- W — 1-INCH DIAMETER CL200 POLYETHYLENE PLASTIC WATER LINE (UNLESS OTHERWISE NOTED)
- WELL ISOLATION
- WASTEWATER ISOLATION
- WL — WETLAND BOUNDARY
- WB — WETLAND BUFFER
- UE — UNDERGROUND ELECTRICAL CONDUIT
- GAS — UNDERGROUND GAS LINE
- tel — UNDERGROUND TELEPHONE LINE
- ohw — UTILITY POLE/ OVERHEAD WIRES
- SURVEY TRAVERSE STATION
- TEMPORARY BENCHMARK (TYPE AND ELEVATION NOTED)
- TEST PIT (TP-01)
- DRILLED WELL (UNLESS OTHERWISE NOTED)

PROJECT NOTES:

1. THIS IS NOT A BOUNDARY SURVEY AND DOES NOT MEET THE LEGAL REQUIREMENTS OF A BOUNDARY SURVEY AS DESCRIBED IN 27 V.S.A. § 1403. PROJECT PERIMETER LINES ARE BASED ON CHARLOTTE TAX MAPS SHOWN ON THE AGENCY OF NATURAL RESOURCES (ANR) ENVIRONMENTAL INTEREST LOCATOR, EVIDENCE FOUND DURING THE FEBRUARY 2025 TOPOGRAPHIC SURVEY, AND A PLAN ENTITLED "PART OF ROLAND J. & BLANCHE M. AUBE PROPERTY, CHARLOTTE, VERMONT" BY G.E. BEDARD, INC., DATED JULY 21, 1984, REVISED AUGUST 27, 1984 AND RECORDED IN MAP SLIDE 37 OF THE CHARLOTTE LAND RECORDS. NO WARRANTY IS MADE TO THE ACCURACY OF THE BOUNDARY LINES SHOWN HEREON.

2. THE LOCATIONS OF EXISTING PHYSICAL FEATURES ON THIS PLAN ARE BASED ON A TOPOGRAPHIC SURVEY COMPLETED BY BARNARD AND GERVAIS, LLC IN FEBRUARY 2025 AND A RECORD DRAWING ENTITLED "OVERALL SITE PLAN RECORD DRAWING, ADAM AND SARAH HERGENROTHER 10.32 +/- ACRE PARCEL, 435 DORSET STREET, CHARLOTTE, VERMONT" BY JASON BARNARD CONSULTING, LLC., DATED OCTOBER 27, 2010.

3. THE ELEVATIONS ON THIS PLAN WITHIN THE DASHED BOUNDARIES SHOWN ARE 1-FOOT CONTOURS BASED ON NAVD88 (GEOID18) ESTABLISHED FROM SURVEY GRADE GNSS READINGS COLLECTED WITH A TRIMBLE R12i GNSS RECEIVER ADJUSTED TO VERMONT GRID ON RANDOM CONTROL POINTS USING REAL TIME KINEMATIC CORRECTIONS FROM A VIRTUAL REFERENCE STATION OF THE VT CORS NETWORK. THE ELEVATIONS ON THIS PLAN OUTSIDE THE DASHED BOUNDARIES SHOWN ARE 1-FOOT LIDAR CONTOURS OBTAINED FROM THE STATE OF VERMONT VCGI OPEN DATA PORTAL DATABASE.

4. FOR CLARITY, TEXT IDENTIFYING EXISTING ITEMS IS LOWER CASE; TEXT IDENTIFYING PROPOSED ITEMS IS UPPER CASE.

5. NO ATTEMPT HAS BEEN MADE TO LOCATE ANY UNDERGROUND UTILITIES BY BARNARD AND GERVAIS, LLC. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING DIG SAFE TO HAVE ANY UNDERGROUND UTILITIES MARKED PRIOR TO ANY EXCAVATION OR SITE WORK. THE CONTRACTOR SHALL NOTIFY THE DIG SAFE NETWORK AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.

6. THIS 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 NOVEMBER 6, 2023.

7. NO WETLANDS WERE SHOWN ON THE SUBJECT PARCEL ON THE "VERMONT NATURAL RESOURCES ATLAS" AND NO OTHER WETLAND DELINEATION OF SAID PARCEL HAD BEEN CONDUCTED OF WHICH BARNARD & GERVAIS, LLC IS AWARE. BARNARD & GERVAIS, LLC MAKES NO WARRANTIES THAT WETLANDS OR ASSOCIATED BUFFERS DO OR DO NOT EXIST ON SAID PARCEL. IT IS RECOMMENDED THAT THE LANDOWNER OR CONTRACTOR CONTACT A WETLAND SPECIALIST TO CONFIRM NO WETLANDS EXIST PRIOR TO ANY EARTH WORK OR CONSTRUCTION.

8. BARNARD & GERVAIS, LLC IS NOT RESPONSIBLE FOR ANY ASPECTS OF HEALTH AND SAFETY ASSOCIATED WITH THIS PROJECT.

9. ALL EXCAVATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE STATE OF VERMONT, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (VOSHA) GUIDELINES FOR TRENCH EXCAVATIONS.

10. THE CONTRACTOR AND/OR LANDOWNER SHALL ADHERE TO THE GUIDELINES SET FORTH IN THE STATE OF VERMONT EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION SITES. IT IS THE RESPONSIBILITY OF THE LANDOWNER OR SITE CONTRACTOR TO ENSURE THESE GUIDELINES ARE FOLLOWED AND EROSION/SEDIMENT CONTROL MEASURES ARE MAINTAINED THROUGHOUT THE COURSE OF THE PROJECT.

DESIGNER CERTIFICATION STATEMENT

I HEREBY CERTIFY THAT, IN THE EXERCISE OF MY REASONABLE PROFESSIONAL JUDGEMENT, THE DESIGN-RELATED INFORMATION SUBMITTED WITH THIS APPLICATION IS TRUE AND CORRECT AND THE DESIGN INCLUDED IN THIS APPLICATION FOR A PERMIT COMPLIES WITH THE VERMONT WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES.

OWNER:
LIAM O'FARRELL &
MARY JO SLEEPER
DEED - Vol. 266, PG. 256
SPAN # 138-043-10059
PARCEL ID # 00013-0435
ACRES: 10.32±

SIGNATURE:
STATE OF VERMONT
JASON S. BARNARD
NO. 126179
LICENSED DESIGNER
JASON S. BARNARD
LICENSED DESIGNER #126179

DATE	DESCRIPTION	BY
	REVISIONS	

BARNARD & GERVAIS, LLC
Land Surveying
Water & Wastewater
Environmental Consulting
167 Main Street, P.O.Box 820
Enosburg Falls, VT 05450
Telephone: (802) 933-5168
10523 VT Route 116, P.O.Box 133
Hinesburg, VT 05461
Telephone: (802) 482-2597

CHILDCARE FACILITY POTABLE WATER SUPPLY & WASTEWATER SYSTEM DESIGNS

LIAM O'FARRELL & MARY JO SLEEPER

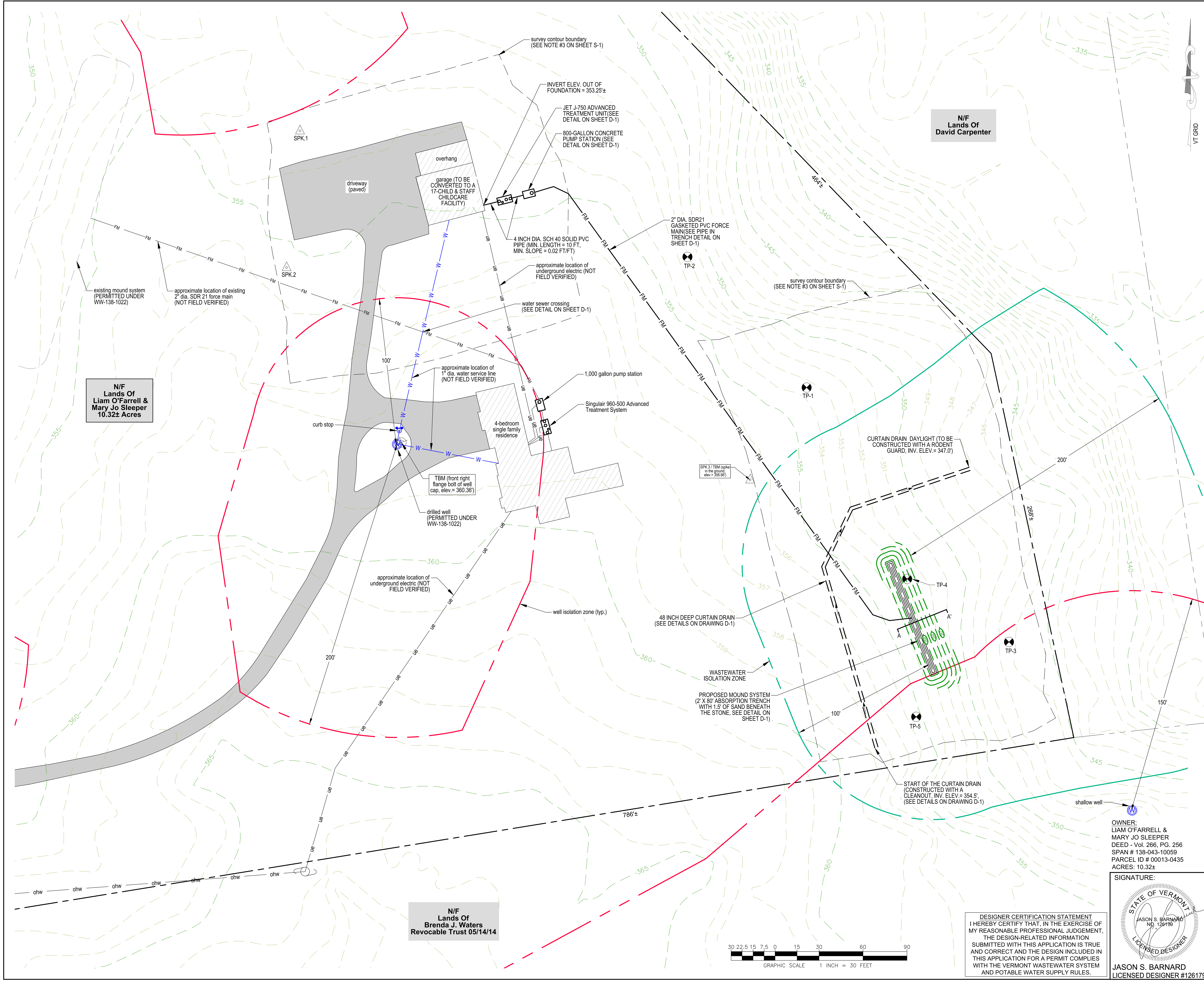
435 DORSET STREET, CHARLOTTE, VERMONT

OVERALL SITE PLAN

THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:

☐ PRELIMINARY DRAFT ■ FINAL STATE REVIEW

PROJECT NO.: 24378
DATE: 02-26-2025
SCALE: 1" = 100'
SURVEY: JG
DRAWN: JG
CHECKED: JB
DRAWING NO.: S-1



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- TEMPORARY BENCHMARK (TYPE AND ELEVATION NOTED)
- TEST PIT (TP-01)
- DRILLED WELL (UNLESS OTHERWISE NOTED)
- WATER SHUT-OFF

OWNER:
LIAM O'FARRELL &
MARY JO SLEEPER
DEED - Vol. 266, PG. 256
SPAN # 138-043-10059
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DATE	DESCRIPTION	BY

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SITE PLAN

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DRAWN: JG
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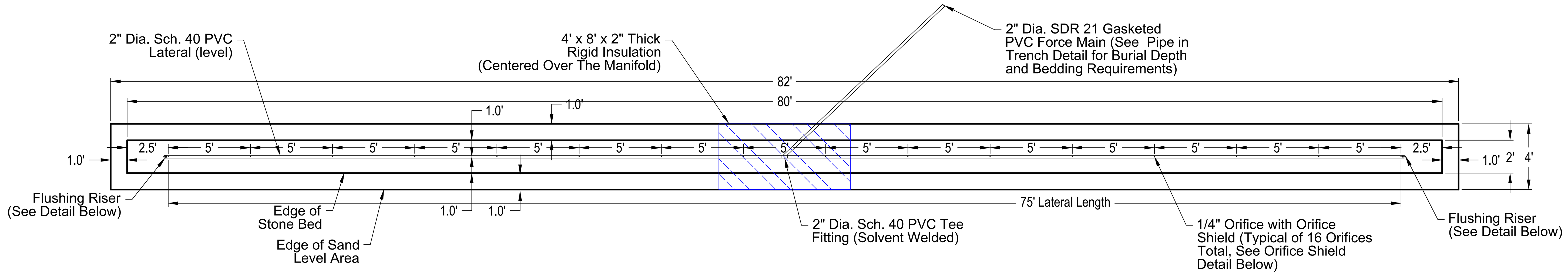
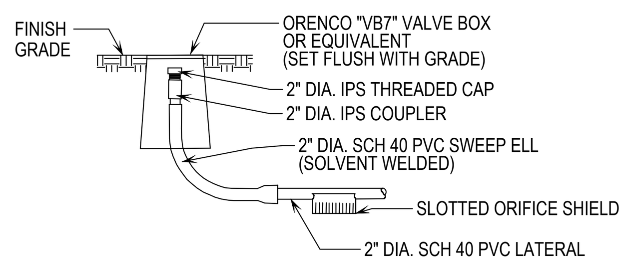
SHEET 2 OF 3



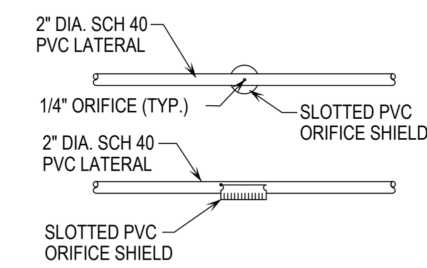
MOUND WASTEWATER DISPOSAL SYSTEM PLAN VIEW

SCALE: 1-INCH = 5-FEET



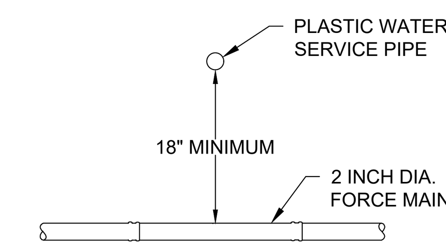
FLUSHING RISER DETAIL

NOT TO SCALE



ORIFICE SHIELD DETAIL

NOT TO SCALE



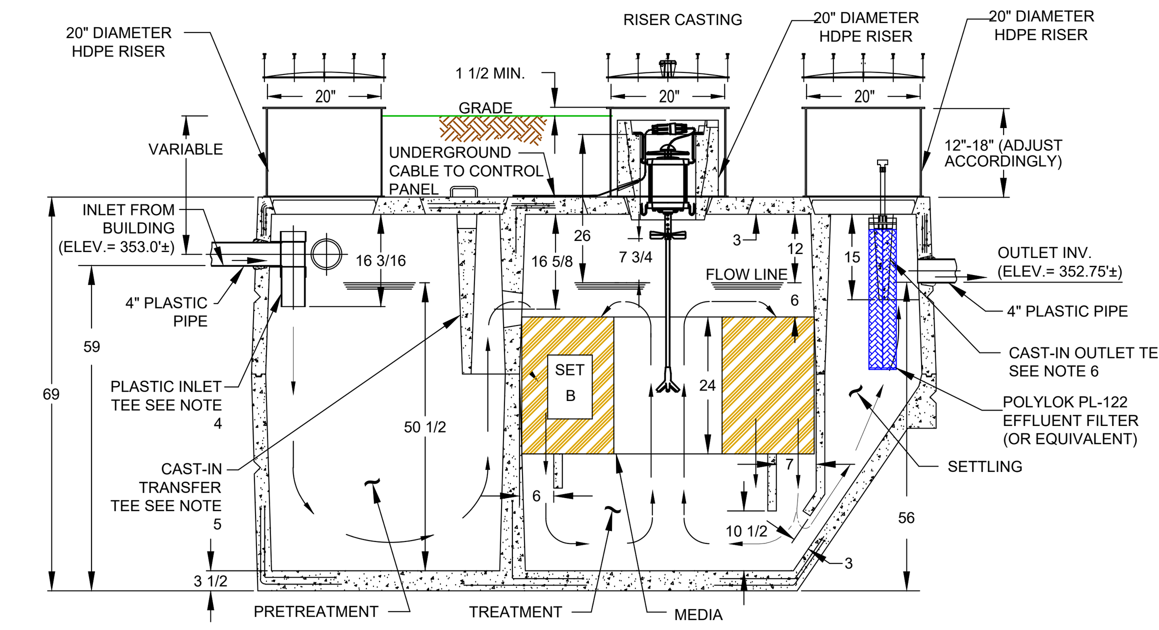
NOTES:

1. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IF THE SEWER MAIN IS OVER THE WATER MAIN, THEN THE SEWER MAIN MUST BE ENCASED BY CONCRETE EXTENDING BEYOND THE FIRST SEWER PIPE JOINTS AND REST ON UNDISTURBED SOIL ON EACH SIDE OF THE WATER MAIN, OR THE SEWER LINE SHALL BE INSTALLED TO MEET THE SECRETARY'S SEWER LINE STANDARDS FOR SOURCE PROTECTION AREAS.

2. IF 18 INCHES OF VERTICAL SEPARATION IS NOT ABLE TO BE ACHIEVED, THE DESIGNER SHALL BE CONTACTED.

WATER OVER SEWER CROSSING

NOT TO SCALE

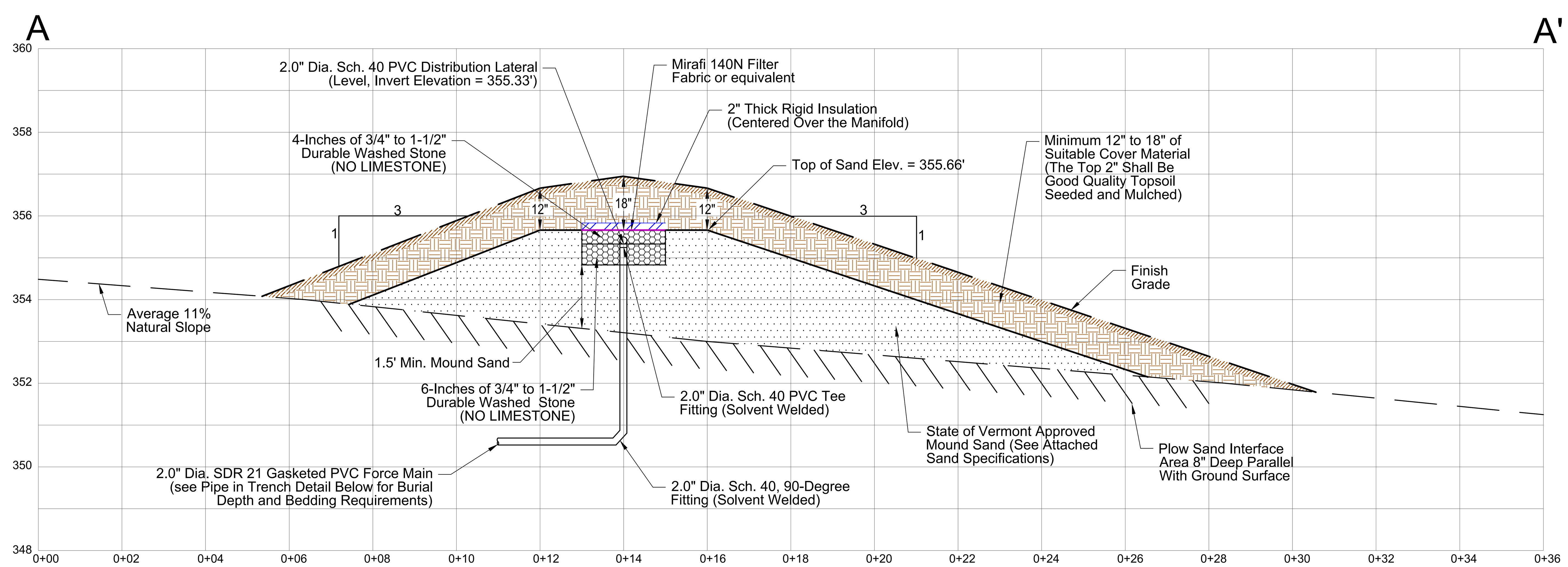


SECTION

1. AERATOR MODEL 700LL IN CYCLED OR CONTINUOUS OPERATION MUST BE USED.
2. IF AERATOR MOUNTING CASTING HAS NO RISER, RISERS ARE NOT REQUIRED HERE. REMOVABLE CONCRETE COVERS ARE REQUIRED.
3. IF AERATOR MOUNTING CASTING HAS A RISER(S), COVERED RISERS ARE REQUIRED HERE. RISERS SHOULD BE DEVELOPED TO GRADE OR TO 6"-12" BELOW GRADE.
4. PLANTS WHICH DO NOT USE A PLASTIC INLET TEE IN THE PRETREATMENT COMPARTMENT MAY USE AN OPTIONAL CAST-IN INLET TEE. SEE DETAIL 1.
5. PLANTS WHICH DO NOT HAVE A CAST-IN TRANSFER TEE IN THE PRETREATMENT COMPARTMENT MAY USE AN OPTIONAL PLASTIC TRANSFER TEE. SEE DETAIL 2.
6. PLANTS WHICH DO NOT HAVE A CAST-IN OUTLET TEE IN THE SETTLING COMPARTMENT MAY USE AN OPTIONAL PLASTIC OUTLET TEE. SEE DETAIL 3.

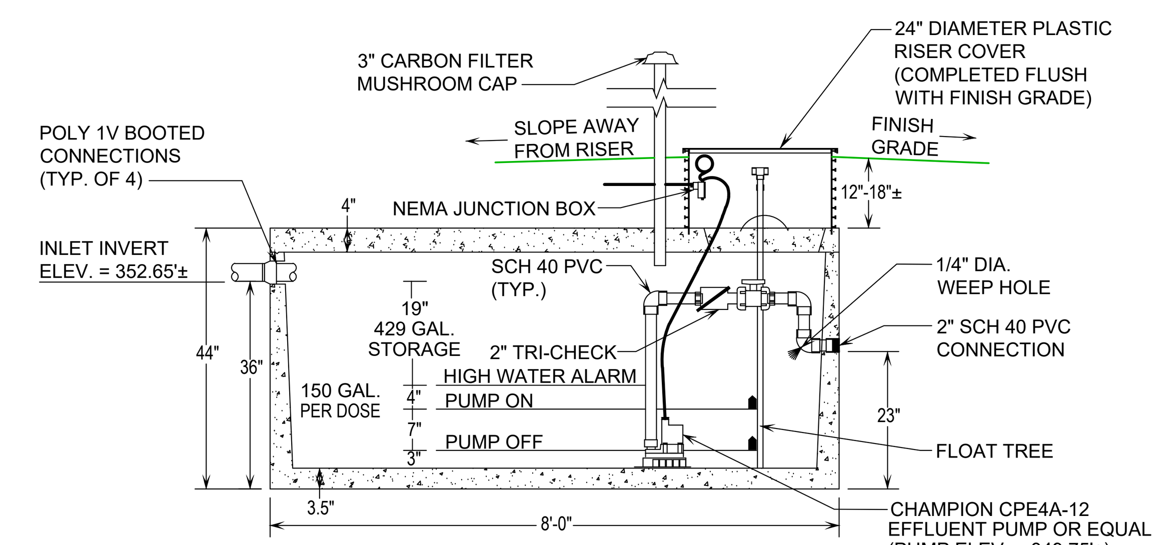
JET J-750 ADVANCED TREATMENT SYSTEM

NOT TO SCALE



MOUND WASTEWATER DISPOSAL SYSTEM SECTION

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



SECTION

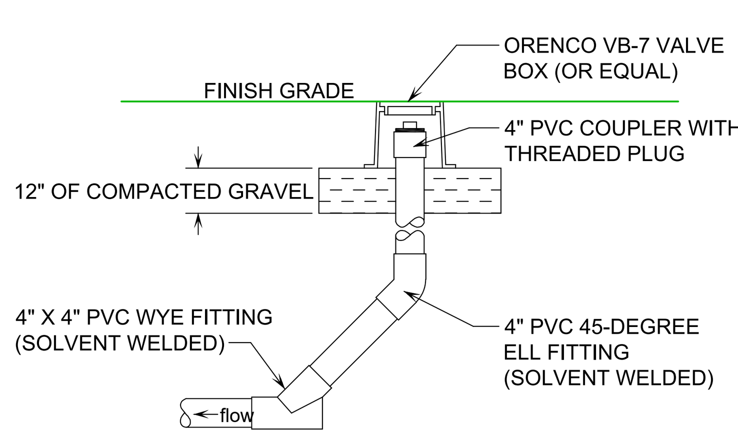
NOTES:
1. PUMP STATION SHALL BE SET LEVEL ON A MINIMUM OF SIX INCHES OF COMPACTED GRANULAR BASE.
2. PUMP STATION SECTIONS SHALL HAVE BUTYL RUBBER JOINT SEALER.
3. IF WATER-PROOF BOOTED CONNECTIONS ARE NOT USED, ALL PIPE PENETRATIONS SHALL BE SEALED WITH A "WATER PLUG" NON-SHRINK HYDRAULIC CEMENT.
4. ON/OFF FLOAT SWITCH TO BE SET WITH A 6-INCH SWING SETTING TO PROVIDE A 150 GALLON DOSE VOLUME.
5. HIGH WATER LEVEL ALARM AND PUMP STATION SHALL BE WIRED BY A LICENSED ELECTRICIAN.
6. THE HIGH WATER LEVEL ALARM SHALL BE MOUNTED AT A VISIBLE LOCATION.
7. THE EFFLUENT PUMP SHALL BE CAPABLE OF 30.5 GPM VS. 22 TDH.

800 GALLON TOP-SEAM CONCRETE PUMP STATION

NOT TO SCALE

WASTEWATER DISPOSAL SYSTEM CONSTRUCTION AND MAINTENANCE NOTES

1. THE WASTEWATER DISPOSAL SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STATE OF VERMONT, AGENCY OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES.
2. 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 REPLACEMENT MOUND-TYPE WASTEWATER SYSTEM.
4. THE DESIGNER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR INSPECTIONS OF THE SEPTIC TANK, PUMP STATION, PLOWED LAYER, AND PLACEMENT OF THE MOUND SAND.
5. THE DESIGNER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR A PRESSURE TEST OF THE MOUND SYSTEM PRESSURE DISTRIBUTION NETWORK.
6. WASTEWATER SYSTEM FINISH GRADES WILL VARY WITH NATURAL TOPOGRAPHY PRIORITY IS TO MAINTAIN 3 ON 1 MOUND TOE SLOPES.
7. SEPTIC TANK EFFLUENT FILTER SHOULD BE REMOVED AND RINSED BACK INTO THE SEPTIC TANK ANNUALLY.
8. THE SEPTIC TANK AND PUMP STATION SHOULD BE INSPECTED ANNUALLY AND PUMPED OUT AT LEAST EVERY THREE (3) YEARS OR AS NECESSARY TO PREVENT SOLIDS FROM CARRYING OVER TO THE DISPOSAL SYSTEM.
9. FOLLOWING THE MOUND WASTEWATER SYSTEM INSTALLATION, FINISH GRADE SHALL BE SEEDED AND MULCHED WITH A CONSERVATION GRASS SEED MIX.
10. WATER SOFTENER BACKWASH, SEPTIC TANK ADDITIVES, GREASE OR SANITIZERS SHALL NOT BE INTRODUCED INTO THE WASTEWATER DISPOSAL SYSTEM.

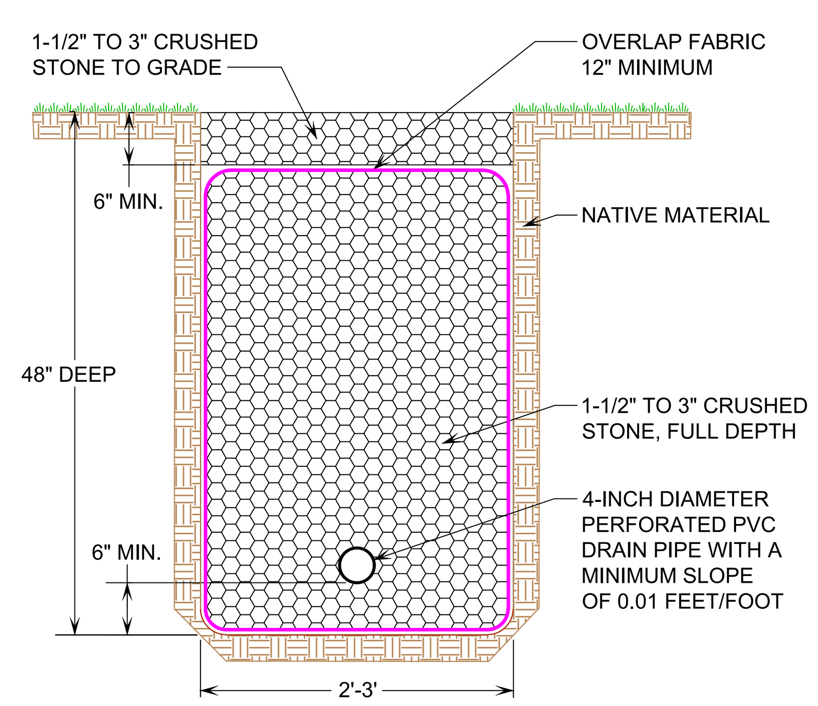


SECTION

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

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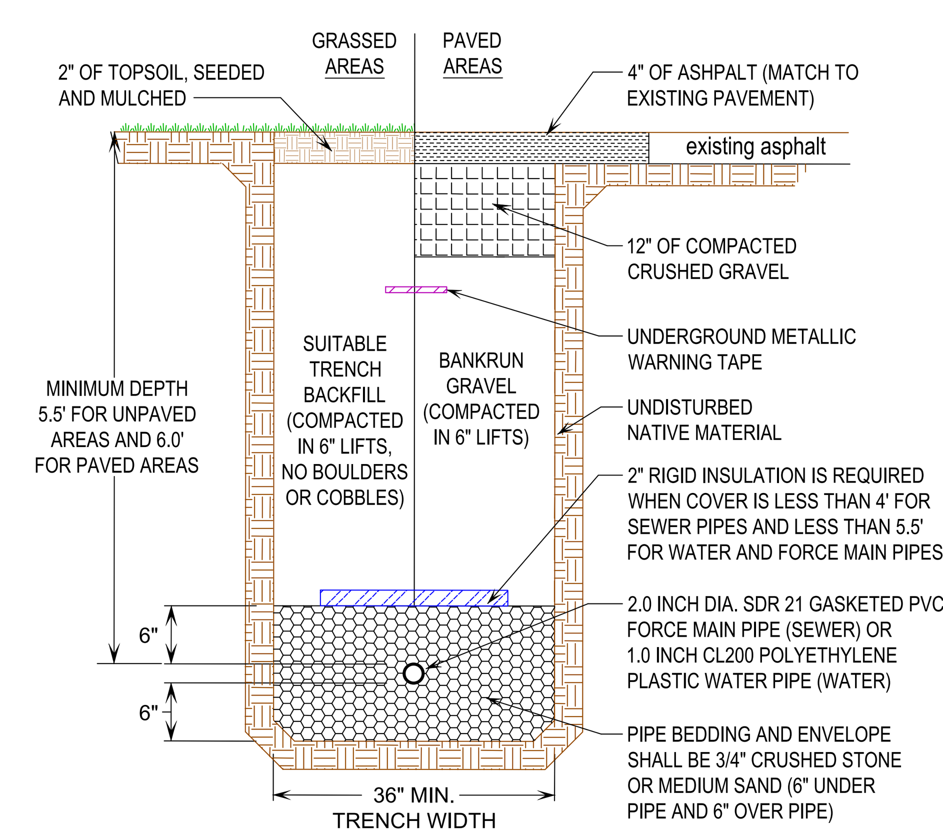
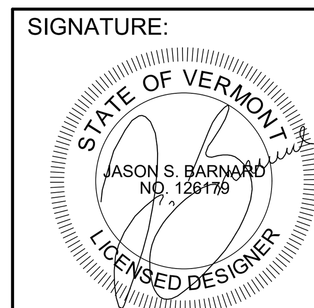


GRASSED / PAVED AREA PIPE IN TRENCH DETAIL

NOT TO SCALE

SIGNATURE:



JASON S. BARNARD
LICENSED DESIGNER #126179

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WASTEWATER SYSTEM DETAILS AND NOTES

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