TOWN OF
FAIRFIELD VT

zoning@fairfieldvermont.us
802-827-3261 x3
PO Box 5
Fairfield VT 05455

Town of Fairfield Zoning Permit Application

Owner / Applicant: Mike and Carol Rainville
Mailing Address: 9089 Rte 36 East Fairfield Vermont
Phone Number: 8023094206 Email: fabianrainville@gmail.com
Physical Address of Parcel: 75 Egypt Rd East Fairfield, VT 05448 United States
District: Agricultural Lot Size: 220.00 Parcel ID: 213-069-10686

Project Information

New Residential	X	Seasonal Camp		Replacement Dwelling		House Addition	
Garage/Carport		Deck/Porches		Storage/Shed/Gazebo		Outside Furnace	
Daycare		Pool		Sign		Agricultural	X
Commercial Minor		Commercial Major		Conditional Use		Camp Conversion	

REQUIRED: Attach a sketch and/or floor plans (include all setbacks and identify all water bodies or wetlands).

Existing Use of Parcel: Residential Agricultural Existing Square Footage: ~2500
Proposed Use: New Residential Agricultural Housing
Dimensions of Proposed Construction: 54' x 35', _____ x _____, _____ x _____
Height: 27 Number of Stories: 2 Number of Rooms: 12 Total
Total Square Feet of All New Construction: 1800
Square Footage: (Exclude attics < 7 ½ feet high and below grade basements)
Number of Bedrooms: Existing: 4 New: 3
Number of Bathrooms: Existing: 1 New: 2.5
Water Source: Well Wastewater disposal type: Septic WWP#: WW-6-4603
Setbacks: Front: 440 Rear: 350 Side: 350 Side: 350
Setbacks: Measured from the existing/proposed building(s) to the property lines for side and rear and from center of road for the front setback.

***Note: Other State permits may be required. Please inquire with the DEC Permit Specialist: 802-879-5676**

Signature of Owner / Applicant: Michael Rainville Date: 6-17-26
Signature of Owner / Applicant: Carol Rainville Date: 6-17-26

FOR USE BY ADMINSTRATIVE OFFICER ONLY

Date Application Filed:	Hearing Date:
Fee Information:	Payment Received:
Date Approved:	Date Effective (Approved + 15 days):
Date Denied:	Reason Denied:
Appeal Date:	Appeal Decision:
Signature:	Date:

Zoning Application Fee Information

Effective 7/24/2023

PLEASE NOTE: THERE IS A $15 RECORDING FEE WITH EVERY PERMIT

Type of Permit	Fee
New Residential Build	$505 + 0.15 per sq ft
Seasonal Camp	$505
Replacement Dwelling / Camp (fire/other disaster free)	$505 +0.15 per sq ft
Certificate of Compliance / Occupancy	$55
House Addition	$80 + 0.15 per sq ft
Garage / Carport	$80 + 0.15 per sq ft
Deck / Porch	$55
Storage / Shed/ Gazebo	$45 + 0.10 per sq ft
Accessory Dwelling	$250
Daycare	$55
Pool	$55
Sign	$40
Agricultural (Recording Fee Only)	$15
Minor & Major Commercial	$1 per sq ft
Conditional Use	Set By Board
Camp Conversion	$505
Subdivision Minor	$130 (Recording fee for map additional $25)
Subdivision Major (Sketch Plan Review & Final Plat Review)	Sketch: $90 Final Plat: $105 / lot (Recording fee for mylar additional $25)
Appeal of Permit	$35
Renewal of Permit (Recording Fee Only)	$15
After the Fact Permit	Double Permit Fee
Abutter Notification (stamp, certified mailing, return receipt)	$20 + Postage

Please contact the Zoning Administrator with any questions

VERMONT

State of Vermont
Department of Environmental Conservation

Agency of Natural Resources
Drinking Water and Groundwater Protection Division

WASTEWATER SYSTEM AND POTABLE WATER SUPPLY PERMIT

LAWS/REGULATIONS INVOLVED

10 V.S.A. Chapter 64, Potable Water Supply and Wastewater System Permit
Wastewater System and Potable Water Supply Rules, Effective November 6, 2023

Permittee(s): Mike and Carol Rainville
9089 Rt. 36
E. Fairfield, VT 05448

Permit Number: WW-6-4603

This permit affects the following property/properties in Fairfield, Vermont:

Lot	Parcel	SPAN	Acres	Book(s)/Page(s)#
1	S36-9089000	213-069-10686	220	Book:51 Page(s):427-429

This application, consisting of the construction of a 4-bedroom accessory dwelling unit with new individual drilled well water supply and new on-site mound wastewater disposal system, with no changes to the existing house and farm located at 9098 Rt. 36 in Fairfield, Vermont, is hereby approved under the requirements of the regulations named above subject to the following conditions. Any person aggrieved by this permit may appeal to the Environmental Court within 30 days of the date of issuance of this permit in accordance with 10 V.S.A. Chapter 220 and the Vermont Rules of Environmental Court Proceedings.

1. GENERAL

1.1. The permittee is responsible for recording this permit in the Fairfield Land Records within 30 days of issuance of this permit and prior to the conveyance of any lot subject to the jurisdiction of this permit.

1.2. The permittee is responsible for recording the design and installation certifications and other documents that are required to be filed under these Rules or under a permit condition in the Fairfield Land Records.

1.3. Each assign or successor in interest shall be shown a copy of the Wastewater System and Potable Water Supply Permit and the stamped plan(s) prior to the conveyance of a lot.

1.4. The landowner is responsible for establishing any easement(s) shown on the approved plans. The land deeds that establish and transfer ownership of the approved lot(s) shall allow future owner(s) the right to construct, maintain, and repair the wastewater and/or potable water supply systems approved herein. If the landowner does not properly execute said easement(s), this permit becomes null and void for any subject lot conveyed without easement(s).

1.5. By acceptance of this permit, the permittee agrees to allow representatives of the State of Vermont access to the property covered by the permit, at reasonable times, for the purpose of ascertaining compliance with the Vermont environmental and health statutes and regulations, and permit conditions.

1.6. The Drinking Water and Groundwater Protection Division relied upon the Vermont Licensed Designer's certification that the design-related information submitted is true and correct and complies with the Wastewater System and Potable Water Supply Rules. This permit may be revoked if it is determined the design of the wastewater system or potable water supply does not comply with these rules.

1.7. This permit does not relieve the landowner from obtaining all other approvals and permits from other State Agencies or Departments or local officials prior to construction.

2. CONSTRUCTION

2.1. Construction shall be completed as shown on the plans and/or documents prepared by Jeffrey Olesky P.E., with the stamped plans listed as follows:

Title	Sheet #	Plan Date	Revision
Overall Existing Conditions Site Plan	C1.0	03/25/2026	--
Partial Proposed Site Plan	C2.0	03/25/2026	--
Proposed Site Details Plan	C3.0	03/25/2026	--
Proposed Site Details Plan	C3.1	03/25/2026	--
Proposed Site Details Plan	C3.2	03/25/2026	--

2.2. Construction of wastewater systems or potable water supplies, or buildings or structures (as defined by the Wastewater System and Potable Water Supply Rules), or campgrounds, not depicted on the stamped plans, or identified in this permit, is not allowed without prior approval by the Drinking Water and Groundwater Protection Division.

2.3. No buildings, roads, water pipes, sewer services, earthwork, re-grading, excavation, or other construction that might interfere with the operation of a wastewater system or a potable water supply are allowed on or near the site-specific wastewater system, wastewater replacement area, or potable water supply depicted on the stamped plans. Adherence to all isolation distances that are set forth in the Wastewater System and Potable Water Supply Rules are required.

3. INSPECTIONS

3.1. No permit issued by the Secretary shall be valid for a substantially completed potable water supply and wastewater system until the Secretary receives a signed and dated certification from a qualified Vermont Licensed Designer (or where allowed, the installer) on a Secretary-approved form that states:

"I hereby certify that, in the exercise of my reasonable professional judgment, the installation-related information submitted is true and correct and the potable water supply and wastewater system were installed in accordance with the permitted design and all permit conditions, were inspected, were properly tested, and have successfully met those performance tests."

or which satisfies the requirements of §1-311 of the referenced rules.

3.2. Prior to the use of the potable water supply, the permittee shall collect untreated water and test for Arsenic, Escherichia coli (E. coli), Fluoride, Lead, Manganese, Nitrate as N, Nitrite as N, Total Coliform Bacteria, Uranium, Adjusted Gross Alpha Particle Activity, Chloride, Sodium, Iron, and pH. The Lead sample shall be a first-draw. All water quality tests shall be conducted at a laboratory certified by the Vermont Department of Health (a list of which can be found on the VDH website). Results of the water tests shall be submitted to the Vermont Department of Health prior to use or at the time of submission of the Installation Certification required in Condition 3.1, whichever comes first.

4. DESIGN FLOW

4.1. The following table provides the flows that the wastewater system and potable water supply are designed to accept based on existing and proposed lot and building uses. The design flows in gallons per day (gpd) in the following table are derived from section 1-803 of the Rules:

Lot	Building	Building Use / Design Flow Basis	Wastewater	Water
1	Existing	Residential Living Unit with 4-bedrooms (based on 7-person occupancy)	490	490
1	Proposed	Accessory Dwelling Unit with 4-bedrooms (based on 7-person occupancy)	490	490

4.2. The table above reflects the designed capacity for wastewater systems and potable water supplies derived from the uses documented in the permit application. If additional capacities are needed, a permit amendment will be required for the total design flows.

5. WASTEWATER SYSTEM

5.1. Prior to construction or site work, a designer shall flag the proposed leachfield, and the owner shall maintain the flags until commencement of construction of the system.

5.2. Should the wastewater system fail and not qualify as a minor repair or for an exemption, the landowner shall engage a qualified Licensed Designer to evaluate the cause of the failure and submit an application to the Drinking Water and Groundwater Protection Division, and obtain approval thereof, prior to correcting the failure.

5.3. This permit does not relieve the permittee of the obligations of Title 10, Chapter 48, Subchapter 4, for the protection of groundwater.

6. POTABLE WATER SUPPLY

6.1. Prior to construction or site work, a designer shall flag the center of the proposed potable water source, and the owner shall maintain the flag until commencement of construction of the source.

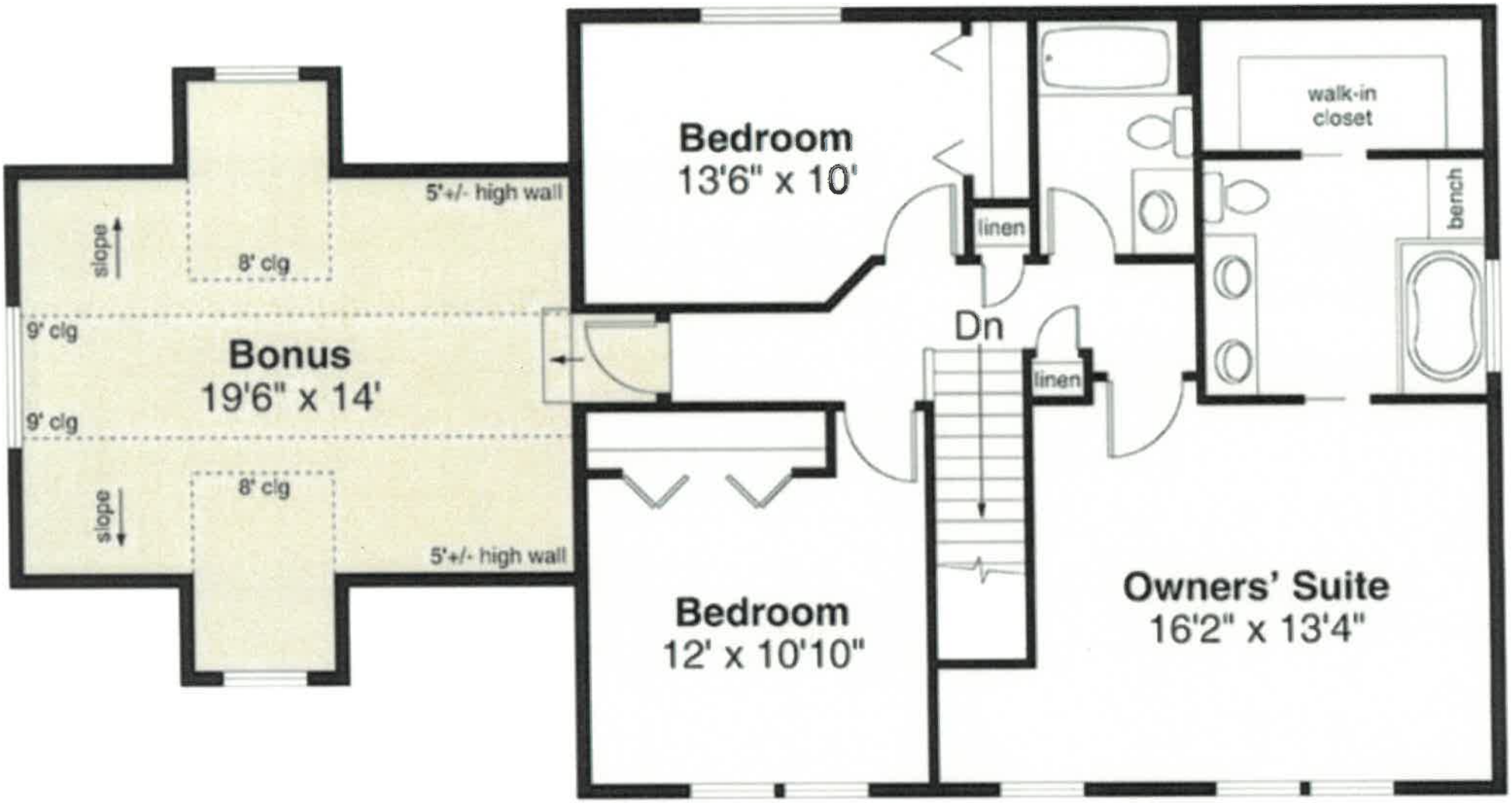
6.2. Should the potable water supply fail and not qualify as a minor repair or for an exemption, the landowner shall engage a qualified Licensed Designer to evaluate the cause of the failure and submit an application to the Drinking Water and Groundwater Protection Division, and obtain approval thereof, prior to correcting the failure.

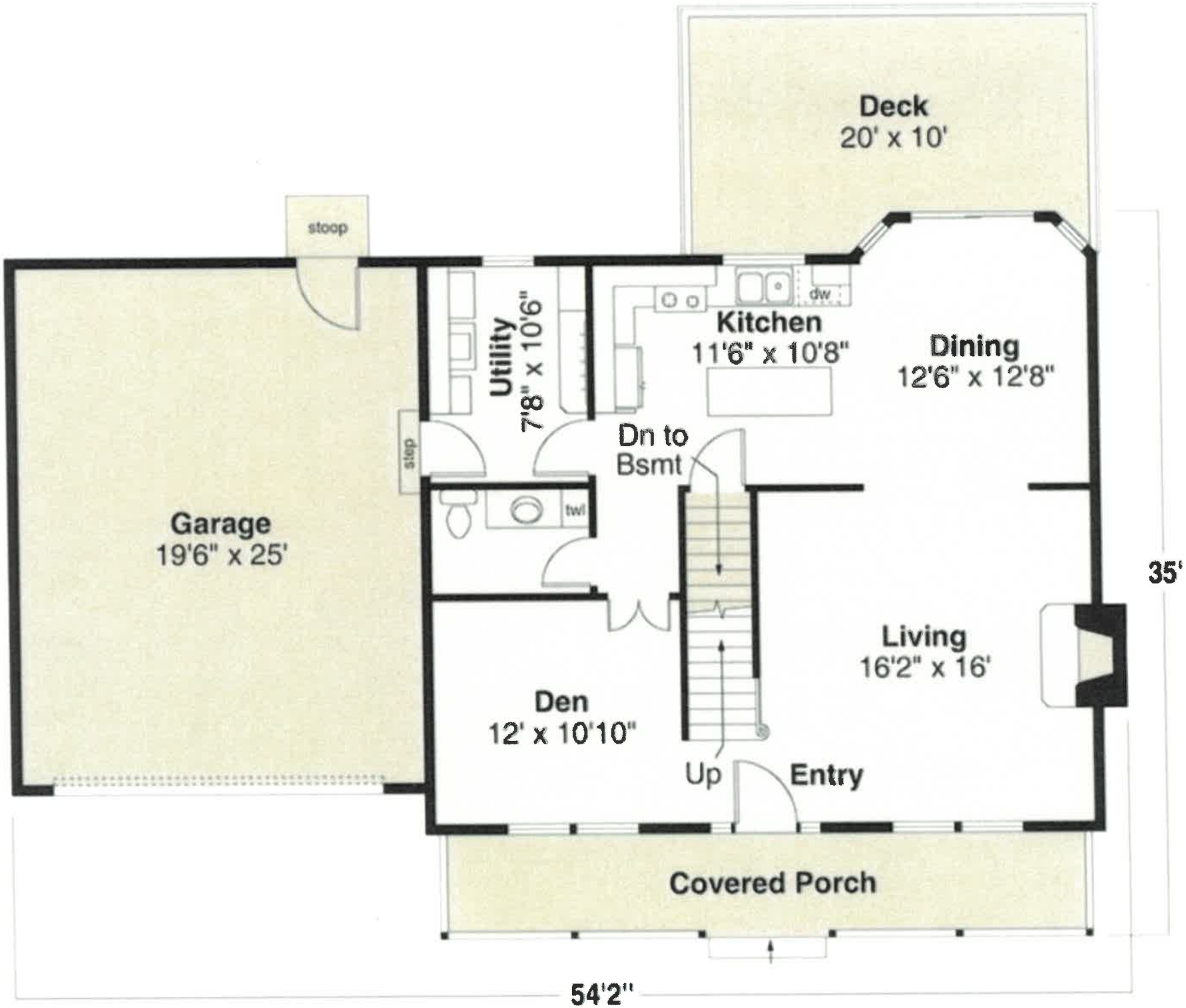
Julia S. Moore, Secretary
Agency of Natural Resources

By _____ Dated June 16, 2026

Evan Bollman
Environmental Analyst VI
Essex Junction Regional Office
Drinking Water and Groundwater Protection Division

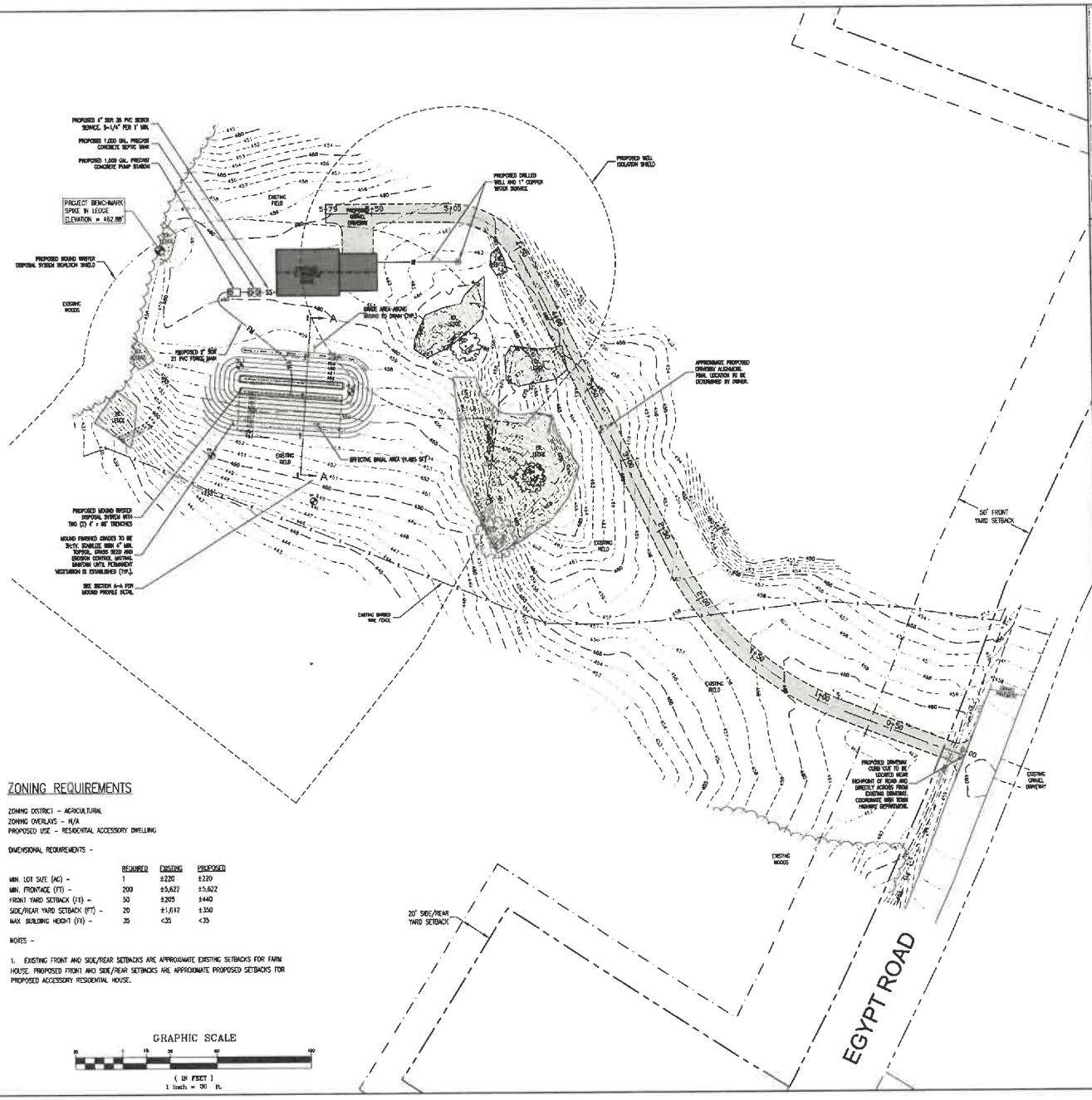
cc: Jeffrey Olesky P.E.


Bedroom
13'6" x 10'
walk-in
closet
bench
linen
Dn
linen
5'+/- high wall
slope
8' clg
9' clg
Bonus
19'6" x 14'
9' clg
8' clg
slope
5'+/- high wall
Bedroom
12' x 10'10"
Owners' Suite
16'2" x 13'4"


Deck
20' x 10'
stoop
Utility
7'8" x 10'6"
Kitchen
11'6" x 10'8"
dw
Dining
12'6" x 12'8"
step
Dn to
Bsmt
twl
Garage
19'6" x 25'
35'
Living
16'2" x 16'
Den
12' x 10'10"
Up
Entry
Covered Porch
54'2"

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SETBACK LINE
- APPROXIMATE EASEMENT LINE
- APPROXIMATE GRAVITY SEWER LINE
- APPROXIMATE SEWER FORCE MAIN
- APPROXIMATE STORM DRAINAGE LINE
- APPROXIMATE WATER LINE
- APPROXIMATE OVERHEAD ELEC./TEL./COM. LINE
- APPROXIMATE UNDERGROUND ELEC./TEL./COM. LINE
- APPROXIMATE GAS LINE
- FENCE
- DRAINAGE SWALE/DITCH
- APPROXIMATE 100 YEAR FLOODPLAIN
- APPROXIMATE EDGE OF WOODS
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB/PLANTING
- SEWER MANHOLE
- DRAINAGE MANHOLE
- DRAINAGE CATCH BASIN
- HYDRANT
- WATER VALVE
- DRILLED WELL
- POWER POLE
- GUY WIRE
- LIGHT POLE
- SIGN POST
- TEST PIT
- PERCOLATION TEST
- IRON PIPE/ROD FOUND/SET
- CONCRETE MONUMENT FOUND/SET
- PROJECT BENCHMARK



DESIGN SUMMARY

PROPOSED DESIGN FLOWS (FOR PROPOSED ACCESSORY STRUCTURE) –
- PROPOSED 4-BEDROOM HOUSE –
  - (3 BR'S @ 140 GPD/BR) + (1 BR @ 70 GPD/BR) = 490 GPD

SEPTIC TANK (FOR PROPOSED ACCESSORY STRUCTURE) –
- DESIGN FLOW IS LESS THAN 667 GPD = USE 1,000 GAL. SEPTIC TANK

SYSTEM DESIGN (FOR PROPOSED ACCESSORY STRUCTURE) –
- BASED ON SOILS INVESTIGATION, USE MOUND SYSTEM DESIGN, APPLICATION RATE = 1 GPD/SF
- SYSTEM SIZE REQUIREMENT = 490 GPD @ 1 GPD/SF = 490 SF REQUIRED
- USE TWO 65' LONG, 4' WIDE, TRENCHES = 520 SF PROVIDED
- BASAL AREA REQUIRED = 1 GPD/SF @ 490 GPD = 490 SF
- BASAL AREA PROVIDED = 65 LF x 23 LF = 1,495 SF

DESKTOP MOUNDING ANALYSIS

REQUIRED DEPTH FROM BOTTOM TRENCH TO SHWT FOR STANDARD EFFLUENT = 36"
PROPOSED DEPTH TO SHWT = 30" MOUND SAND + 15" LOAM = 45"
DEPTH AVAILABLE FOR INDUCED GROUNDWATER MOUNDING = h = 45" – 36" = 9" = 0.75'
LINEAR LOADING RATE FACTOR WITH 1.0AM @ ±12% SLOPE = f = 14.0
LINEAR LOADING RATE = LLR = h x f = 0.75 x 14 = 10.5 GPD/LF
DESIGN FLOW = 490 GPD
REQUIRED SYSTEM LENGTH = 490 GPD / 10.5 GPD/LF = 47 LF
PROPOSED SYSTEM LENGTH = 65 LF

PUMP STATION REQUIREMENTS

PUMP DESIGN –
- DESIGN FLOW = 490 GPD
- TWO (2) 65' LATERALS WITH TWENTY-SIX (26) TOTAL ORIFICES 1/8" IN SIZE
- DISCHARGE RATE = 26 x 0.85 GPM = 22 GPM
- TDH CALCULATION @ 22 GPM –
  - ELEVATION = 461' – 452' = ±9'
  - FRICTION = ±75 OF 2" FM @ 1.31'/100 LF = ±1'
  - RESIDUAL = 1 PS = ±1'
  - TOTAL TDH @ 22 GPM = ±13'
- USE COULDS SUBMERSIBLE EFFLUENT PUMP 2E0(C) (½ Hp) PUMP OR APPROVED EQUAL
- CONFIRM PUMP SELECTION WITH ENGINEER PRIOR TO CONSTRUCTION

ZONING REQUIREMENTS

ZONING DISTRICT – AGRICULTURAL
ZONING OVERLAYS – N/A
PROPOSED USE – RESIDENTIAL ACCESSORY DWELLING

DIMENSIONAL REQUIREMENTS –

	REQUIRED	EXISTING	PROPOSED
MIN. LOT SIZE (AC) –	1	±220	±220
MIN. FRONTAGE (FT) –	200	±5,622	±5,622
FRONT YARD SETBACK (FT) –	50	±205	±440
SIDE/REAR YARD SETBACK (FT) –	20	±1,612	±350
MAX BUILDING HEIGHT (FT) –	35	<35	<35

NOTES –

1. EXISTING FRONT AND SIDE/REAR SETBACKS ARE APPROXIMATE EXISTING SETBACKS FOR FARM HOUSE. PROPOSED FRONT AND SIDE/REAR SETBACKS ARE APPROXIMATE PROPOSED SETBACKS FOR PROPOSED ACCESSORY RESIDENTIAL HOUSE.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CATAMOUNT
consulting engineers, pllc

OWNER:

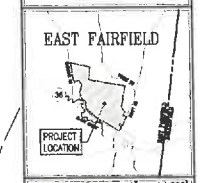
Mike & Carol Rainville
9089 Route 36
E. Fairfield, Vermont 05448

PROJECT:

Proposed Residential Accessory Dwelling
9089 Route 36
E. Fairfield, Vermont 05448

SHEET TITLE:

Partial Proposed Conditions Site Plan



LOCATION MAP 1" = ±4,000'

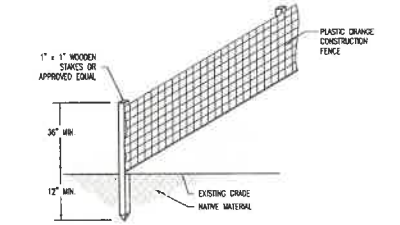
- ☐ PRELIMINARY
- ☒ FINAL
- ☐ NOT FOR CONSTRUCTION
- ☐ FOR CONSTRUCTION

PROJECT NO.: 25073
DATE: MARCH 25, 2026
SCALE: 1" = 30'

REV. NO.	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

SHEET NUMBER:

C2.0



NOTES:

1. PROJECT DEMARCATION FENCE TO BE INSTALLED IN ACCORDANCE WITH AOT SPEC 653.06.

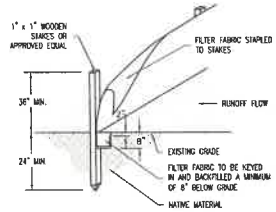
2. WOODEN STAKES TO BE INSTALLED A MINIMUM OF 5' O/C.

3. PROJECT DEMARCATION FENCE TO BE INSTALLED PRIOR TO ANY CONSTRUCTION AND MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.

PROJECT DEMARCATION FENCE DETAIL

1 / C3.0

N.T.S.



NOTES:

1. SILT FENCE TO BE INSTALLED IN ACCORDANCE WITH AOT SPEC 653.08(b) AND USING MATERIAL MEETING AOT SPEC 720.01 FOR SILT FENCE.

2. WOODEN STAKES TO BE INSTALLED A MINIMUM OF 5' O/C.

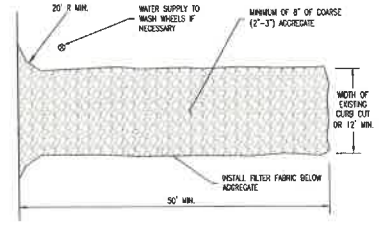
3. INSTALL SILT FENCES AT TOES OF ALL UNPROTECTED SLOPES AND AS PARALLEL TO CONTOURS AS POSSIBLE THIS INCLUDES ALL FILLED OR UNPROTECTED SLOPES CREATED DURING CONSTRUCTION, NOT NECESSARILY REFLECTED ON THE FINAL PLANS. CURVE THE ENDS OF THE FENCE UP INTO THE SLOPE WHEN SILT FENCE IS INSTALLED ON MINOR CROSS SLOPES. "J" HOOKS SHALL BE INSTALLED EVERY 50' MINIMUM TO MINIMIZE SEDIMENT LOAD AT BOTTOM OF SLOPE. WHEN TWO SECTIONS OF FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6", FOLDED AND STAPLED.

4. SILT FENCE TO BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED UNTIL SLOPES ARE STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED. REMOVE SEDIMENT WHEN ACCUMULATED TO HALF THE HEIGHT OF THE FENCE.

SILT FENCE DETAIL

2 / C3.0

N.T.S.



NOTES:

1. STONE CONSTRUCTION ENTRANCE TO BE INSTALLED IN ACCORDANCE WITH AOT SPEC 653.08(a) AND USING MATERIAL MEETING AOT SPEC 704.17. FILTER FABRIC TO MEET AOT SPEC 720.01 FOR GEOTEXTILE FOR ROADBED SEPARATOR.

2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ONTO THE PUBLIC ROW. THIS MAY REQUIRE MAINTENANCE AND REPAIR OF ANY MEASURES USED TO TRAP SEDIMENT.

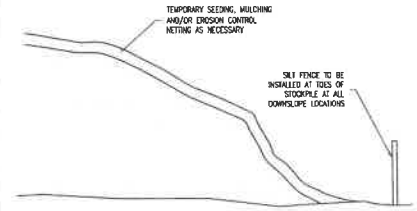
3. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO THE PUBLIC ROW.

4. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AGGREGATE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP.

CONSTRUCTION ENTRANCE DETAIL

3 / C3.0

N.T.S.



NOTES:

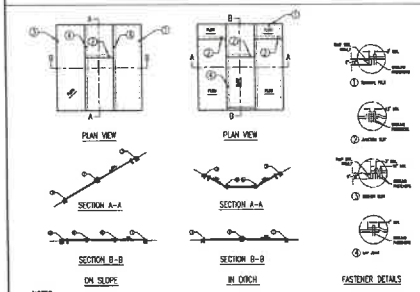
1. THE STOCKPILE, OR PORTIONS THEREOF, THAT WILL NOT BE USED OR DISTURBED WITHIN 14 DAYS SHALL BE TEMPORARY STABILIZED WITH MULCH. THE STOCKPILE, OR PORTIONS THEREOF, THAT WILL NOT BE USED OR DISTURBED WITHIN 3 MONTHS SHALL BE STABILIZED WITH GRASS SEED AND MULCH OR EROSION CONTROL NETTING AS NECESSARY TO MINIMIZE THE POTENTIAL FOR EROSION.

2. SILT FENCE TO BE INSTALLED IN ACCORDANCE WITH AOT SPEC 653.08(b) AND USING MATERIAL MEETING AOT SPEC 720.01 FOR SILT FENCE.

TOPSOIL STOCKPILE DETAIL

4 / C3.0

N.T.S.



NOTES:

1. EROSION CONTROL PRODUCT TO BE INSTALLED IN ACCORDANCE WITH AOT SPEC 653.07(b) AND USING MATERIAL MEETING AOT SPEC 755.11 FOR ROLLED EROSION CONTROL PRODUCT TYPE I (RECP).

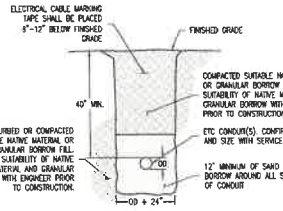
2. RECP TO BE INSTALLED ON ALL SLOPES GREATER THAN 1V:3H OR WHERE NECESSARY OR DIRECTED BY ENGINEER.

3. FASTENERS ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 3' APART AND IN ROWS APPROXIMATELY 3' APART AND PER MANUFACTURERS SPECIFICATIONS TO ENSURE PROPER INSTALLATION.

EROSION CONTROL MATTING DETAIL

5 / C3.0

N.T.S.



NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES FOR SLEEVES FOR ELECTRICAL, TELEPHONE AND COMMUNICATION SERVICES SHALL MEET AOT SPEC 625.

2. SAND BORROW TO MEET AOT SPEC 703.03.

3. GRANULAR BORROW FILL TO MEET AOT SPEC 703.04

4. COMPACTION OF MATERIALS TO MEET AOT SPEC 301.06.

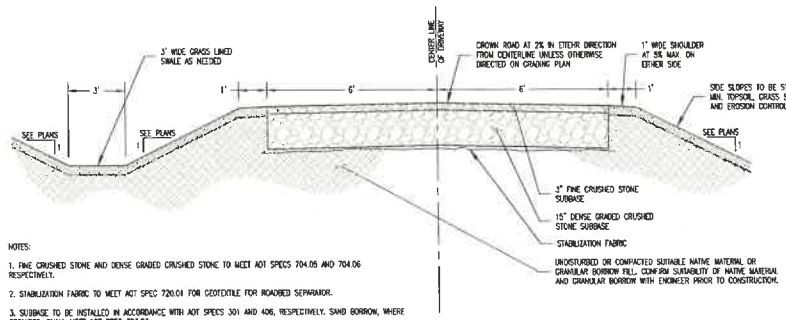
5. REFER TO ELECTRICAL PLAN FOR CONDUIT TYPE AND SCHEDULE AND CONFIRM CONDUIT REQUIREMENTS WITH LOCAL SERVICE PROVIDERS.

6. CONDUIT SHALL BE ENCASED IN 4" OF CLASS B CONCRETE FOR PORTIONS INSTALLED UNDER THE ROADWAY OR WITHIN 10' OF WATER, SEWER, GAS AND/OR DRAINAGE CROSSINGS.

ELECTRICAL CONDUIT TRENCH DETAIL

6 / C3.0

N.T.S.



NOTES:

1. FINE CRUSHED STONE AND DENSE GRADED CRUSHED STONE TO MEET AOT SPECS 704.05 AND 704.06 RESPECTIVELY.

2. STABILIZATION FABRIC TO MEET AOT SPEC 720.01 FOR GEOTEXTILE FOR ROADBED SEPARATOR.

3. SUBBASE TO BE INSTALLED IN ACCORDANCE WITH AOT SPECS 301 AND 406, RESPECTIVELY. SAND BORROW, WHERE REQUIRED, SHALL MEET AOT SPEC 703.03.

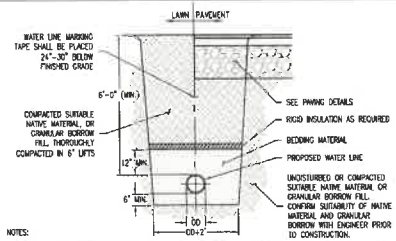
4. GRANULAR BORROW FILL TO MEET AOT SPEC 703.04.

5. COMPACTION OF SUBBASE MATERIALS TO MEET AOT SPEC 301.06.

DRIVEWAY CROSS SECTION DETAIL

7 / C3.0

N.T.S.



NOTES:

1. WATER LINES, VALVES AND FITTINGS TO MEET AOT SPEC 740 AND BE INSTALLED AND TESTED IN ACCORDANCE WITH AOT SPEC 629.

2. BEDDING MATERIAL SHALL BE SAND, GRAVEL OR CRUSHED STONE WITH NO STONES GREATER THAN 1". BEDDING MATERIAL SHALL NOT BE PLACED ON FROZEN SUBGRADE.

3. IN TRENCHES WITH UNSTABLE MATERIALS, THE TRENCH BOTTOM SHALL BE STABILIZED WITH FILTER FABRIC AND 4" OF 3/4" CRUSHED STONE MEETING AOT SPEC 704.02B

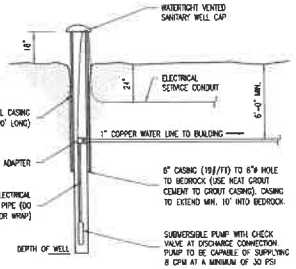
4. GRANULAR BORROW FILL TO MEET AOT SPEC 703.04.

5. WHEN 6' OF COVER CANNOT BE MAINTAINED INSTALL 2" OF RIGID INSULATION, FOR EVERY 1' OF COVER THAT CANNOT BE MAINTAINED, OVER THE PIPE EXTENDING A MINIMUM OF 2' BEYOND THE OUTER EDGES OF THE PIPE

WATER TRENCH DETAIL

8 / C3.0

N.T.S.



NOTES:

1. WELL TO BE INSTALLED BY A LICENSED WELL DRILLER IN THE STATE OF VERMONT.

2. WELL TO BE INSTALLED AND TESTED IN ACCORDANCE WITH SECTION 11 AND 12 OF THE VERMONT WASTEWATER SYSTEM & POTABLE WATER SUPPLY RULES.

DRILLED WELL DETAIL

9 / C3.0

N.T.S.

VERMONT WATER SUPPLY RULE - CHAPTER 21
TABLE A11-1 - REQUIRED MINIMUM SEPARATION DISTANCES

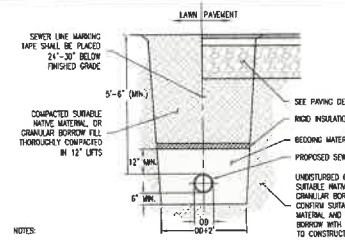
POTENTIAL SOURCE OF CONTAMINATION AND OTHER SITING LIMITATIONS	SEPARATION DISTANCE
ROADWAY, PARKING LOT (OUTER EDGE OF SHOULDER)	25'
DRIVEWAY (<3 RESIDENCES)	15'
SEWAGE SYSTEM DISPOSAL FIELDS	SEE WELL SHIELD LOCATION
SUBSURFACE WASTEWATER PIPING AND RELATED TANKS	50'
PROPERTY LINE	10' b
LIMIT OF HERBICIDE APPLICATION ON UTILITY R.O.W.	100' c
SURFACE WATER	10' d
FLOOD WAYS	e
BUILDINGS	10'
CONCENTRATED LIVESTOCK HOLDING AREA AND MANURE STORAGE SYSTEMS	200'
HAZARDOUS OR SOLID WASTE DISPOSAL SITE	f
NON-SEWAGE WASTEWATER DISPOSAL FIELDS	f

b. INCREASED TO 50' WHEN ADJACENT TO AGRICULTURAL CROPLAND.
c. APPLIES TO RIGHTS-OF-WAY (ROW) WHERE HERBICIDES HAVE BEEN APPLIED IN THE PAST 12 MONTHS OR MAY BE APPLIED IN THE FUTURE. THIS DISTANCE MAY BE INCREASED TO 200' DEPENDING ON THE ACTIVE INGREDIENT IN THE HERBICIDE ACCORDING TO VERMONT REGULATIONS FOR CONTROL OF PESTICIDES.
d. FOR PUBLIC WATER SOURCES, SEE APPENDIX A, PART 3, SUBPART 3.4.
e. WATER SOURCES SHALL NOT BE LOCATED IN A FLOOD WAY.
f. IF A WATER SOURCE IS POTENTIALLY DOWN GRADIENT OF A SOURCE OF CONTAMINATION, THE AGENCY SHALL APPLY THE CRITERIA IN 11.4.2.2.

PRIVATE WELL ISOLATION REQUIREMENTS

10 / C3.0

N.T.S.



NOTES:

1. SEWER LINES AND FITTINGS TO MEET AOT SPEC 710.06 AND BE INSTALLED AND TESTED IN ACCORDANCE WITH SECTION 10 OF THE VERMONT WASTEWATER SYSTEM & POTABLE WATER SUPPLY RULES.

2. BEDDING MATERIAL SHALL BE 3/4" CRUSHED STONE MEETING AOT SPEC 704.02B. BEDDING MATERIAL SHALL NOT BE PLACED ON FROZEN SUBGRADE.

3. IN TRENCHES WITH UNSTABLE MATERIALS, THE TRENCH BOTTOM SHALL BE STABILIZED WITH FILTER FABRIC AND 4" OF 3/4" CRUSHED STONE MEETING AOT SPEC 704.02B.

4. GRANULAR BORROW FILL TO MEET AOT SPEC 703.04.

5. WHEN 6' OF COVER CANNOT BE MAINTAINED INSTALL 2" OF RIGID INSULATION, FOR EVERY 1' OF COVER THAT CANNOT BE MAINTAINED, OVER THE PIPE EXTENDING A MINIMUM OF 2' BEYOND THE OUTER EDGES OF THE PIPE.

SEWER TRENCH DETAIL

11 / C3.0

N.T.S.

CATAMOUNT
consulting engineers, pllc

OWNER:

Mike & Carol Rainville
9089 Route 36
E. Fairfield, Vermont 05448

PROJECT:

Proposed Residential Accessory Dwelling
9089 Route 36
E. Fairfield, Vermont 05448

SHEET TITLE:

Proposed Site Details Plan

LOCATION MAP 1" = ±4,000'

- [ ] PRELIMINARY
- [x] FINAL
- [ ] NOT FOR CONSTRUCTION
- [ ] FOR CONSTRUCTION

PROJECT NO.: 26023
DATE: MARCH 25, 2026
SCALE: AS SHOWN

REV. NO.	DESCRIPTION	DATE
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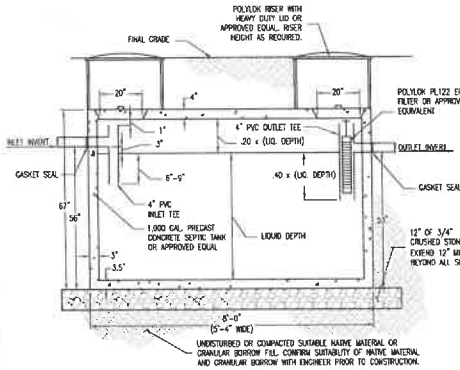
SHEET NUMBER:

C3.0



SEPTIC TANK DETAIL

1 / C3.1

N.T.S.

NOTES:

1. TANK TO BE INSTALLED AND TESTED IN ACCORDANCE WITH AOT SPEC 628.

2. 3/4" STONE FOR BEDDING TO MEET AOT SPEC 704.02B.

3. SEPTIC TANKS SHALL BE WATERTIGHT, STRUCTURALLY SOUND, AND CONSTRUCTED OF MATERIALS NOT SUBJECT TO EXTENSIVE CORROSION OR DECAY. PRECAST CONCRETE TANKS SHALL HAVE A MINIMUM WALL THICKNESS OF 3 INCHES AND SHALL BE ADEQUATELY REINFORCED TO FACILITATE HANDLING. WHEN PRECAST SLABS ARE USED AS COVERS, THEY SHALL BE WATERTIGHT, HAVE A THICKNESS OF AT LEAST 3 INCHES AND BE ADEQUATELY REINFORCED. FOR TANKS HAVING STRAIGHT, VERTICAL SIDES, THE DISTANCE BETWEEN THE TOP OF THE TANK AND THE LIQUID LINE SHOULD BE EQUAL TO APPROXIMATELY 20% OF THE LIQUID DEPTH. IN HORIZONTAL, CYLINDRICAL TANKS, AN AREA EQUAL TO APPROXIMATELY 15% OF THE TOTAL CIRCLE SHOULD BE PROVIDED ABOVE THE LIQUID LEVEL.

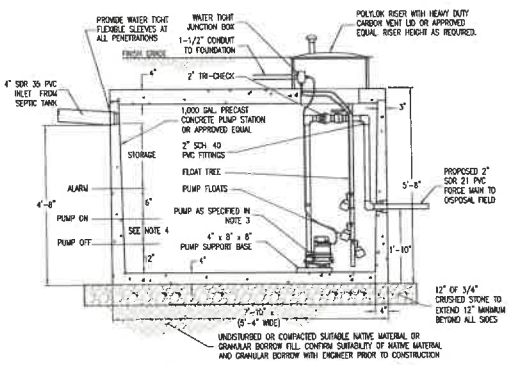
4. ADEQUATE ACCESS MUST BE PROVIDED TO EACH COMPARTMENT OF THE TANK FOR INSPECTION AND CLEANING. BOTH INLET AND OUTLET DEVICES SHALL BE ACCESSIBLE. ACCESS SHALL BE PROVIDED TO EACH COMPARTMENT BY MEANS OF EITHER A REMOVABLE COVER OR A MANHOLE OF AT LEAST 16 INCHES IN DIAMETER. EACH TANK SHALL HAVE AT LEAST ONE MANHOLE ACCESS TO GRADE. IF ONLY ONE ACCESS TO GRADE IS PROVIDED IT SHALL PROVIDE ACCESS TO THE OUTLET FILTER. COVERS SHOULD BE TIGHT FITTING AND DESIGNED TO PREVENT ENTRY BY CHILDREN. FINAL GRADING AROUND THE COVERS SHALL BE SUCH THAT STORMWATER DOESN'T POOL OVER THE COVER AND INFILTRATE INTO THE SYSTEM.

5. THE INLET INVERT SHALL BE AT LEAST 3 INCHES ABOVE THE LIQUID LEVEL IN THE TANK. A VENTED INLET TEE OR BAFFLE SHALL SHALL BE PROVIDED TO DIRECT THE INCOMING WASTEWATER DOWNWARD. IT SHALL PENETRATE AT LEAST 6 INCHES BELOW THE LIQUID LEVEL, BUT IN NO CASE SHALL THE PENETRATION BE GREATER THAN THAT ALLOWED FOR THE OUTLET DEVICE. THE OUTLET TEE SHALL EXTEND BELOW THE LIQUID SURFACE A DISTANCE EQUAL TO 40% OF THE LIQUID DEPTH FOR STRAIGHT WALLED RECTANGULAR TANKS. FOR HORIZONTAL, CYLINDRICAL TANKS, THIS SHOULD BE REDUCED TO 35%. A ZOELLER EFFLUENT FILTER OR APPROVED EQUIVALENT SHALL BE INSTALLED IN THE OUTLET TEE TO LIMIT THE PASSAGE OF PARTICLES GREATER THAN 1/16".

6. A MINIMUM OF 1" SHALL BE PROVIDED FOR GASES TO VENT BACK TO THE INLET.

7. THE USE OF GARBAGE GRINDERS IS STRONGLY DISCOURAGED. THE SEPTIC TANK CAPACITY SHALL BE INCREASED BY A MINIMUM OF 25% IF A GARBAGE GRINDER IS USED. IF A GARBAGE GRINDER IS USED PUMPING WILL BE REQUIRED MORE FREQUENTLY.

8. AT LEAST ONCE A YEAR, THE DEPTH OF SLUDGE AND SCUM IN THE SEPTIC TANK SHOULD BE MEASURED. THE TANK SHOULD BE PUMPED IF THE SLUDGE IS CLOSER THAN TWELVE INCHES TO THE OUTLET TEE OR OUTLET BAFFLE, OR THE SCUM LAYER IS CLOSER THAN THREE INCHES TO THE SEPTIC TANK OUTLET BAFFLE.



PUMP STATION DETAIL

3 / C3.1

N.T.S.

NOTES:

1. PUMP STATION TO BE INSTALLED AND TESTED IN ACCORDANCE WITH AOT SPEC 628.

2. 3/4" STONE FOR BEDDING TO MEET AOT SPEC 704.02B.

3. PROVIDE COULDS SUBMERSIBLE EFFLUENT PUMP 2EDE(E) (½ Hp) OR APPROVED EQUAL. THE CONTRACTOR SHALL VERIFY PUMP SELECTION WITH ENGINEER IF FINAL SITE SELECTION IS OTHER THAN SHOWN ON PLANS.

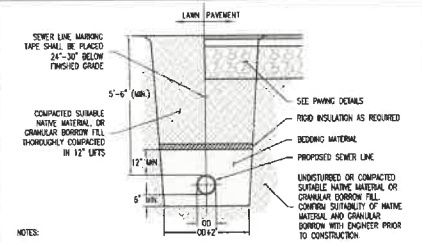
4. SET PUMP FLOATS FOR 120 GALLON DISCHARGE PER PUMP CYCLE (±5.75").

5. CONCRETE PUMP STATION SHALL BE WATERTIGHT, STRUCTURALLY SOUND, AND CONSTRUCTED OF MATERIALS NOT SUBJECT TO EXTENSIVE CORROSION OR DECAY. PRECAST CONCRETE TANKS SHALL HAVE A MINIMUM WALL THICKNESS OF 3 INCHES AND SHALL BE ADEQUATELY REINFORCED TO FACILITATE HANDLING. WHEN PRECAST SLABS ARE USED AS COVERS, THEY SHALL BE WATERTIGHT, HAVE A THICKNESS OF AT LEAST 3 INCHES AND BE ADEQUATELY REINFORCED.

6. ADEQUATE ACCESS MUST BE PROVIDED TO THE PUMP STATION FOR INSPECTION AND CLEANING. ACCESS SHALL BE PROVIDED BY MEANS OF EITHER A REMOVABLE COVER OR A MANHOLE OF AT LEAST 16 INCHES IN DIAMETER. COVERS SHOULD BE TIGHT FITTING AND DESIGNED TO PREVENT ENTRY BY CHILDREN. FINAL GRADING AROUND THE COVERS SHALL BE SUCH THAT STORMWATER DOESN'T POOL OVER THE COVER AND INFILTRATE INTO THE SYSTEM.

7. EMERGENCY STORAGE –

- REQUIRED EMERGENCY STORAGE = ONE DAY = 490 GAL.
- PROP. EMERGENCY STORAGE = (56"-4"-12"-5.75"-6") x 86" x 56" = 78.75 CF = 589 GAL.



NOTES:

1. SEWER LINES AND FITTINGS TO MEET AOT SPEC 710.06 AND BE INSTALLED AND TESTED IN ACCORDANCE WITH SECTION 10 OF THE VERMONT WASTEWATER SYSTEM & POTABLE WATER SUPPLY RULES.

2. BEDDING MATERIAL SHALL BE 3/4" CRUSHED STONE MEETING AOT SPEC 704.02B. BEDDING MATERIAL SHALL NOT BE PLACED ON FROZEN SUBGRADE.

3. IN TRENCHES WITH UNSUITABLE MATERIALS, THE TRENCH BOTTOM SHALL BE STABILIZED WITH FILTER FABRIC AND 4" OF 3/4" CRUSHED STONE MEETING AOT SPEC 704.02B.

4. GRANULAR BORROW FILL TO MEET AOT SPEC 703.04.

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SEWER TRENCH DETAIL

3 / C3.1

N.T.S.

CONTACT THE DESIGNER SHOULD SITE CONDITIONS NOT MEET THE FOLLOWING ENVIRONMENTAL PROTECTION RULES CITED FROM CHAPTER 1 OF THE WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES.

FEATURES AND OBJECTS	HORIZONTAL DISTANCE (FEET) SEWER LINES & MANHOLES	WASTEWATER TANKS	IN-GROUND LEACHFIELDS	LEACHFIELDS IN MOUNDS	MOUND FILL
CURTAIN DRAINS DOWNSLOPE	N/A	10	75	75	50
CURTAIN DRAINS UPSLOPE	N/A	10	35	35	35
DRAINAGE SWALES WITH SEEPS DOWNSLOPE	N/A	25	75	75	50
DRAINAGE SWALES WITH SEEPS UPSLOPE	N/A	25	35	35	10
DRAINAGE SWALES WITHOUT SEEPS	N/A	N/A	25	25	10
FOUNDATION OR PERIMETER DRAIN DOWNSLOPE	N/A	10	75	75	50
FOUNDATION OR PERIMETER DRAIN UPSLOPE	N/A	10	20	20	10
FOUNDATION DOWNSLOPE	N/A	10	20	35	35
FOUNDATION UPSLOPE	N/A	10	20	20	20
POTABLE WATER SOURCE IN BEDROCK	50	(a)	(a)	(a)	(a)
POTABLE WATER SOURCE IN UNCONFINED SURFICIAL AQUIFER	75	(a)	(a)	(a)	(a)
PROPERTY LINES	10	10	25	25	(c)
ROADWAYS, DRIVEWAYS & PARKING LOTS	N/A	5	10	10	(c)
SLOPES EXCEEDING 30%	N/A	10	25	25	25
SURFACE WATER AT NORMAL HIGH WATER ELEVATION	10	25	50	50	50
STORMWATER PRACTICES	10	25	50	50	50
WELLS	10	10	10	10	0
WATER MAINS	(b)	50	50	50	(c)
WATER SERVICE PRESSURE LINES	(b)	25	25	25	(c)
WATER SERVICE SUCTION LINES	(b)	50	100	100	(c)
NON-POTABLE WATER SOURCE	10	50	100	100	(c)
WATER STORAGE TANKS	50	50	50	50	25

FOOTNOTES (GENERAL CRITERIA REGARDING ISOLATION DISTANCES)

(a) SEPARATION BETWEEN POTABLE WATER SUPPLIES AND LEACHFIELDS SHALL BE DETERMINED BY TABLE 9-6 OF CHAPTER 1 (WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES) OF THE STATE OF VERMONT ENVIRONMENTAL PROTECTION RULES.

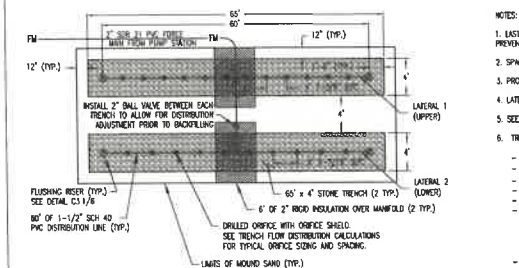
(b) SEPARATION BETWEEN WATER MAINS/LINES AND SEWER MAINS/LINES SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1-1007 OF CHAPTER 1 (WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES) OF THE STATE OF VERMONT ENVIRONMENTAL PROTECTION RULES.

(c) FOR MOUND WASTEWATER DISPOSAL SYSTEMS, THE LIMIT OF MOUND FILL MUST BE 25 FEET FROM ANY DOWNSLOPE FEATURE OR OBJECT AND 10 FEET FROM ANY SIDE OR UPSLOPE FEATURE OR OBJECT.

WASTEWATER ISOLATION REQUIREMENTS

4 / C3.1

N.T.S.



MOUND SYSTEM MANIFOLD DETAIL

5 / C3.1

N.T.S.

NOTES:

1. LAST ORIFICE AT THE END OF EACH TRENCH TO BE ON THE UNDERSIDE OF THE DISTRIBUTION PIPE TO PREVENT FREEZING. ALL OTHER ORIFICES TO BE FACING UP.

2. SPACE ORIFICES AS SHOWN. LAST ORIFICE TO BE NEAR THE END OF THE CAPPED LATERAL.

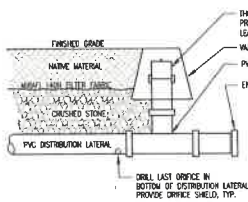
3. PROVIDE ORIFICE SHIELDS FOR EACH ORIFICE FACING UP.

4. LATERALS TO BE LAID LEVEL AND ALL JOINTS SHALL BE SOLVENT WELDED.

5. SEE SITE PLAN FOR FURTHER DETAIL. SYSTEM TO BE LAID OUT BY ENGINEER PRIOR TO CONSTRUCTION.

6. TRENCH FLOW DISTRIBUTION CALCULATIONS –

- TWO (2) TRENCHES AT DIFFERENT ELEVATIONS
- ELEVATIONS EQUAL TO 461.0' (LATERAL 1) AND 461.0' (LATERAL 2)
- CHOOSEN PUMP = ½ Hp
- ESTIMATED DISCHARGE RATE = 22 GPM
- ESTIMATED TDH W/ 22 GPM DISCHARGE = 22'
- ESTIMATED TDH AVAILABLE FOR DISTRIBUTION –
  - 22' - 9' (ELEVATION) - 1' (FRICTION) - 3' (RESIDUAL) = ±9'
- TDH DISTRIBUTION –
  - LATERAL 1 (461.0') = 4.0'
  - LATERAL 2 (461.0') = 5.0'
- DISCHARGE IN LATERAL 1 –
  - FOURTEEN (14) ⅜" ORIFICES @ 0.83 GPM (4.0 TDH) = 11.62 GPM
- DISCHARGE IN LATERAL 2 –
  - TWELVE (12) ⅜" ORIFICES @ 0.93 GPM (5.0 TDH) = 11.16 GPM
- PERCENTAGE DIFFERENCE –
  - BETWEEN LATERALS 1 & 2 = 11.62/11.16 = 1.041 = 4.1% (<10% REQUIRED)



NOTES:

1. FLUSHING RISER TO BE OF SAME SIZE AND MATERIAL AS THE DISTRIBUTION LINE. REFER TO PLANS AND MOUND DETAILS.

2. VALVE BOX TO SIT ON TOP OF CRUSHED STONE.

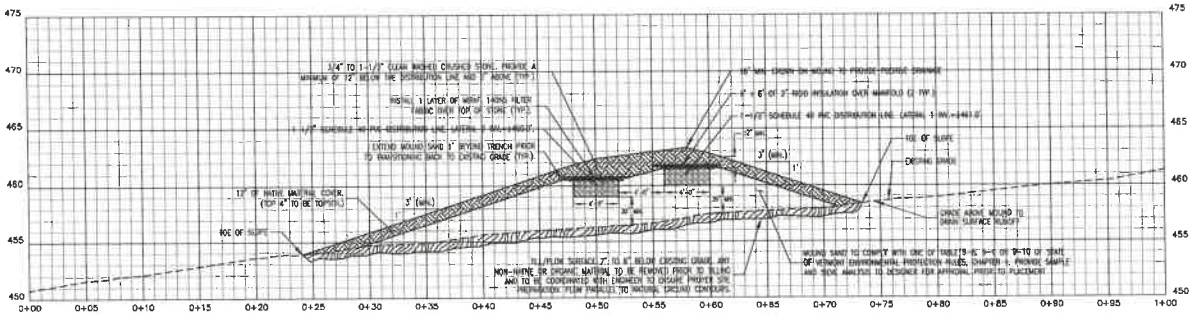
3. IT IS RECOMMENDED THAT THE LATERALS BE FLUSHED DURING EACH SEPTIC TANK PUMPING.

4. REFER TO MANIFOLD DETAIL FOR ORIFICE SPACING AND LOCATION.

TYPICAL FLUSHING RISER DETAIL

6 / C3.1

N.T.S.



WASTEWATER MOUND SECTION A–A

7 / C3.1

HORIZONTAL SCALE: 1"=5' VERTICAL SCALE: 1"=5'

CATAMOUNT consulting engineers, pllc

OWNER:

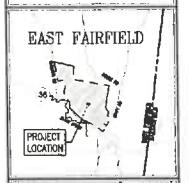
Mike & Carol Rainville
9089 Route 36
E. Fairfield, Vermont 05448

PROJECT:

Proposed Residential Accessory Dwelling
9089 Route 36
E. Fairfield, Vermont 05448

SHEET TITLE:

Proposed Site Details Plan



LOCATION MAP 1" = ±4,000'

- ☐ PRELIMINARY
- ☒ FINAL
- ☐ NOT FOR CONSTRUCTION
- ☐ FOR CONSTRUCTION

PROJECT NO.: 26023
DATE: MARCH 25, 2026
SCALE: AS SHOWN

REV. NO.	DESCRIPTION	DATE
1		
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SHEET NUMBER:

C3.1

1) THE SYSTEM SHALL BE INSPECTED BY A QUALIFIED CONSULTANT AT THE CRITICAL STAGES OF CONSTRUCTION. THIS SHALL INCLUDE, AT A MINIMUM, AN INSPECTION OF THE TILLED MOUND AREA SURFACE PRIOR TO PLACING ANY SAND FILL MATERIAL, AND AN INSPECTION OF THE EXPOSED PRESSURE DISTRIBUTION PIPE PRIOR TO TO HAVING THE ORIFICE SHIELDS INSTALLED, WITH THE SYSTEM IN FULL OPERATION USING CLEAN WATER PROVIDED BY THE CONTRACTOR TO ENSURE THAT THE PRESSURE DISTRIBUTION OPERATES AS DESIGNED. THE INSPECTION SHALL ALSO INCLUDE A THOROUGH CHECK OF THE PUMP STATION ALARM ELEVATIONS TO ENSURE THEY ARE SET AS DESIGNED. UPON COMPLETION OF CONSTRUCTION, THE QUALIFIED CONSULTANT SHALL SUBMIT A REPORT IN WRITING TO THE SECRETARY INCLUDING THE CERTIFICATION REQUIRED IN SECTION 1-308 OF THE MOST RECENT WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES. THE REPORT MUST INCLUDE CERTIFICATION THAT THE SYSTEM MEETS THE REQUIREMENTS OF SECTION 1-913.

2) THE CONTRACTOR IS RESPONSIBLE FOR ALL FIELD WORK, INCLUDING LAYOUT AND CONSULTANT INSPECTIONS OF THE SYSTEM AT THE CRITICAL STAGES OF CONSTRUCTION.

3) THE BOTTOM OF ANY ABSORPTION TRENCH SHALL BE LEVEL AND RUN PARALLEL TO THE CONTOUR.

4) ABSORPTION TRENCHES SHALL HAVE CRUSHED STONE EXTENDING A MINIMUM OF 2" ABOVE AND 12" BELOW THE DISTRIBUTION PIPE. MIRAFI 140NS FILTER FABRIC SHALL BE INSTALLED BETWEEN THE CRUSHED STONE AND THE NATIVE COVER MATERIAL.

5) ALL DISTRIBUTION PIPE SHALL BE LAID LEVEL.

6) SUBMIT A SIEVE ANALYSIS REPORT OF THE MOUND SAND PROPOSED FOR USE TO THE QUALIFIED CONSULTANT WHO WILL BE PERFORMING THE INSTALLATION INSPECTIONS PRIOR TO PLACEMENT.

7) THE MOUND SAND AND TRENCHES SHALL BE COVERED WITH 12" OF NATIVE MATERIAL, WITH THE UPPERMOST 4" BEING TOPSOIL.

8) TO PREVENT COMPACTION, CONSTRUCTION EQUIPMENT SHALL NOT BE MOVED ACROSS THE PLOWED SURFACE OR THE EFFLUENT DISPERSAL AREA. HOWEVER, AFTER PLACEMENT OF A MINIMUM OF SIX INCHES OF SAND FILL OVER THE PLOWED AREA, CONSTRUCTION EQUIPMENT MAY BE DRIVEN OVER THE PROTECTED SURFACE TO EXPEDITE CONSTRUCTION. CONSTRUCTION AND/OR PLOWING SHALL NOT BE INITIATED WHEN THE SOIL MOISTURE CONTENT IS HIGH. IF A SAMPLE OF SOIL OBTAINED FROM APPROXIMATELY 9 INCHES BELOW THE SURFACE CAN BE EASILY ROLLED INTO A WIRE, THE SOIL MOISTURE CONTENT IS TOO HIGH FOR CONSTRUCTION PURPOSES.

9) ABOVEGROUND VEGETATION SHALL BE CLOSELY CUT AND REMOVED FROM THE GROUND SURFACE THROUGHOUT THE AREA USED FOR PLACEMENT OF FILL MATERIAL. THE AREA SHALL THEN BE PLOWED TO A DEPTH OF SEVEN TO EIGHT INCHES, PARALLEL TO THE LAND CONTOUR WITH THE PLOW THROWING THE SOIL UP SLOPE, TO PROVIDE A PROPER INTERFACE BETWEEN THE FILL AND NATURAL SOILS. TREE STUMPS SHOULD BE CUT FLUSH WITH THE SURFACE OF THE GROUND AND ROOTS SHOULD NOT BE PULLED. ONCE PLOWING IS COMPLETED, THE AREA SHOULD BE FENCED TO PREVENT VEHICLES AND EQUIPMENT FROM ENTERING THE PLOWED AREA, UNLESS THE FILL IS GOING TO BE IN PLACE WITHIN 24 HOURS OF PLOWING. IF THE SITE CANNOT BE PLOWED, A BACKHOE BUCKET FITTED WITH CHISEL TEETH MAY BE USED TO "TILL" THE SITE BY CREATING FURROWS THAT ARE PARALLEL TO THE GROUND CONTOUR.

10) THE AREA SURROUNDING THE MOUND WASTEWATER DISPOSAL SYSTEM SHALL BE GRADED TO PROVIDE DIVERSION OF SURFACE RUN-OFF WATERS.

11) CONSTRUCTION SHOULD BE INITIATED IMMEDIATELY AFTER PREPARATION OF THE SOIL INTERFACE BY PLACING THE SAND FILL. AFTER CONSTRUCTION OF THE DISTRIBUTION SYSTEM, BUT PRIOR TO COVERING THE DISTRIBUTION SYSTEM, A DESIGNER SHALL DIRECT THE TESTING OF THE DISTRIBUTION SYSTEM. AFTER SUCCESSFUL TESTING OF THE DISTRIBUTION SYSTEM, FILTER FABRIC SHALL BE INSTALLED AND THE SYSTEM COMPLETED. THE ENTIRE MOUND WASTEWATER DISPOSAL SYSTEM IS TO BE COVERED WITH TOPSOIL NATIVE TO THE SITE, OR OF SIMILAR CHARACTERISTICS, TO SUPPORT VEGETATION FOUND IN THE AREA. THE INSTALLER SHALL CROWN THE ENTIRE MOUND WASTEWATER DISPOSAL SYSTEM WITH A COVER OF SOIL LESS PERMEABLE THAN THE MOUND FILL, COVERING WITH 12" ON THE SIDES OF THE MOUND. NATIVE SOIL FROM THE SITE IS NORMALLY SUITABLE FOR COVER MATERIAL, THOUGH THE TOP 4" OF THIS COVER MUST BE TOPSOIL. THE ENTIRE MOUND SHALL BE SEEDED OR SODDED TO ASSURE STABILITY OF THE INSTALLATION. THE GRASS COVER SHALL BE MAINTAINED AND SHOULD BE MOWED ON AT LEAST AN ANNUAL BASIS.

12) THE CONTRACTOR SHALL ALWAYS BE AWARE OF EROSION AND TAKE RESPONSIBILITY OF EROSION ISSUES CAUSED BY THE CONSTRUCTION. AT A MINIMUM, SILT FENCE SHOULD BE PLACED ON THE DOWNHILL SIDE OF THE SITE WHERE CONSTRUCTION ACTIVITY TAKES PLACE UPSLOPE OF A NEARBY WATERWAY OR WETLAND. REFER TO THE MOST RECENT PUBLICATION OF THE VERMONT EROSION CONTROL HANDBOOK.

MOUND SYSTEM CONSTRUCTION NOTES (1 / C3.2)

N.T.S.

MOUND SAND FILL:
THE MOUND SAND FILL FROM THE NATURAL PLOWED SURFACE TO THE TOP OF THE TRENCH OR BED SHALL BE CLEAN WASHED SILICA SAND MEETING ONE OF THE FOLLOWING SIEVE ANALYSIS. INTERPOLATION OF THE THREE ANALYSES IS NOT PERMITTED. FILL MATERIAL (2) IS ASTM SPECIFICATION C-33 AND IS INTENDED FOR MANUFACTURED MATERIAL.

(1)

SIEVE NUMBER:	OPENING (MM):	% PASSING BY WT:
3/8	9.500	85-100
40	0.420	25-75
80	0.240	0-30
100	0.149	0-10
200	0.074	0-5

(2)

SIEVE NUMBER:	OPENING (MM):	% PASSING BY WT:
4	4.750	95-100
8	2.380	80-100
16	1.190	50-85
30	0.590	25-60
50	0.297	10-30
100	0.149	2-10

(3)

SIEVE NUMBER:	OPENING (MM):	% PASSING BY WT:
3/8	9.500	85-100
40	0.420	30-50
200	0.074	0-5

MOUND SAND REQUIREMENTS (2 / C3.2)

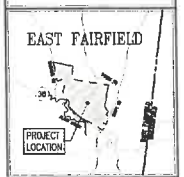
N.T.S.

CATAMOUNT
consulting engineers pllc

OWNER:
Mike & Carol Rainville
9089 Route 36
E. Fairfield, Vermont 05448

PROJECT:
Proposed Residential Accessory Dwelling
9089 Route 36
E. Fairfield, Vermont 05448

SHEET TITLE:
Proposed Site Details Plan



LOCATION MAP 1" = ±4,000'

- [ ] PRELIMINARY
- [x] FINAL
- [ ] NOT FOR CONSTRUCTION
- [ ] FOR CONSTRUCTION

PROJECT NO.: 26023
DATE: MARCH 25, 2026
SCALE: AS SHOWN

REV. NO.	DESCRIPTION	DATE
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SHEET NUMBER:
C3.2

LEGEND

- EXISTING CONTOUR
- 965 PROPOSED CONTOUR
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SETBACK LINE
- APPROXIMATE EASEMENT LINE
- SS APPROXIMATE GRAVITY SEWER LINE
- FM APPROXIMATE SEWER FORCE MAIN
- ST APPROXIMATE STORM DRAINAGE LINE
- W APPROXIMATE WATER LINE
- OETC APPROXIMATE OVERHEAD ELEC./TEL./CDM. LINE
- UETC APPROXIMATE UNDERGROUND ELEC./TEL./CDM. LINE
- G APPROXIMATE GAS LINE
- X FENCE
- DRAINAGE SWALE/DITCH
- APPROXIMATE 100 YEAR FLOODPLAIN
- APPROXIMATE EDGE OF WOODS
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB/PLANTING
- SEWER MANHOLE
- DRAINAGE MANHOLE
- DRAINAGE CATCH BASIN
- HYDRANT
- WATER VALVE
- DRILLED WELL
- POWER POLE
- GUY WIRE
- LIGHT POLE
- SIGN POST
- TEST PIT
- PERCOLATION TEST
- IRON PIPE/ROD FOUND/SET
- CONCRETE MONUMENT FOUND/SET
- PROJECT BENCHMARK

GENERAL NOTES

1) UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SITE SHOWN. EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONTACT DIGSAFE (1-888-344-7233) PRIOR TO CONSTRUCTION, FIELD VERIFY ALL UTILITY CONFLICTS AND REPORT THEM TO THE DESIGNER. ANY EXISTING UTILITIES NOT INCORPORATED INTO THE FINAL DESIGN SHALL BE REMOVED OR ABANDONED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

2) THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK AND SHALL COORDINATE ALL REQUIRED INSPECTIONS.

3) THE CONTRACTOR IS RESPONSIBLE FOR SAFE CONSTRUCTION OPERATIONS AND SHALL CONFORM TO ALL APPLICABLE REGULATIONS FOR SITE SAFETY.

4) THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL APPLICABLE EROSION CONTROL MEASURES. REFER TO THE MOST RECENT PUBLICATION OF THE STATE OF VERMONT EROSION CONTROL HANDBOOK.

5) THE CONTRACTOR SHALL NOTIFY THE DESIGNER OF ANY SITE CONDITIONS NOT REPRESENTED ON THE PLANS THAT INFLUENCE THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

6) THE CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS AS A DIRECT OR INDIRECT RESULT OF THE CONSTRUCTION TO THEIR ORIGINAL CONDITIONS. ALL GRASS LAWN AREAS SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED. MAINTAIN ALL TREES OUTSIDE OF THE CONSTRUCTION LIMITS.

7) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY FOR COMPLETE AND OPERABLE FACILITIES AND UTILITIES.

8) THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL ITEMS AND MATERIALS INCORPORATED INTO THE SITE WORK AND UTILITIES. WORK SHALL NOT COMMENCE ON ANY ITEM UNTIL SHOP DRAWING APPROVAL IS GRANTED.

9) IN ADDITION TO THE REQUIREMENTS IN THESE PLANS, THE CONTRACTOR SHALL COMPLETE THE WORK IN ACCORDANCE WITH ALL LOCAL AND STATE PERMIT CONDITIONS, AS WELL AS THE MOST RECENT EDITION OF THE STATE OF VERMONT ENVIRONMENTAL PROTECTION RULES. UNLESS OTHERWISE NOTED, ALL MATERIALS, ITEMS AND INSTALLATION PROCEDURES SHALL CONFORM TO THE LATEST EDITION OF THE VERMONT AGENCY OF TRANSPORTATION (AOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION.

10) THE TOLERANCE FOR ALL FINISHED GRADES SHALL BE 0.1 FEET

11) THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AS-BUILT DRAWINGS WITHIN 10 DAYS FOLLOWING THE COMPLETION OF THE PROJECT.

12) ELEVATIONS AND COORDINATES SHOWN ARE BASED UPON THE VERMONT STATE PLANE COORDINATE SYSTEM, REFERENCE NAVD88 AND NAD83 RESPECTIVELY AND ARE DERIVED FROM GNSS OBSERVATIONS TAKEN AT THE TIME OF SURVEY.

13) PROPERTY LINE INFORMATION BASED UPON EXISTING TAX MAP INFORMATION. THE PROPERTY LINES, EASEMENTS, AND OTHER REAL PROPERTY DESCRIPTIONS PROVIDED IN THIS PERMIT APPLICATION ARE FOR PERMITTING PURPOSES ONLY. THEY DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN 26 V.S.A. & 2502(4), AND SHALL NOT BE USED IN LIEU OF A SURVEY AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHTS. THIS IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS ONE.

CATAMOUNT consulting engineers, llc

OWNER:

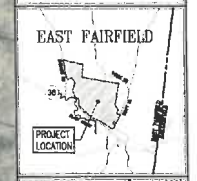
Mike & Carol Rainville
9089 Route 36
E. Fairfield, Vermont 05448

PROJECT:

Proposed Residential Accessory Dwelling
9089 Route 36
E. Fairfield, Vermont 05448

SHEET TITLE:

Overall Existing Conditions Site Plan



LOCATION MAP 1" = ±4,000'

- [ ] PRELIMINARY
- [x] FINAL
- [ ] NOT FOR CONSTRUCTION
- [ ] FOR CONSTRUCTION

PROJECT NO.: 26023
DATE: MARCH 25, 2026
SCALE: 1" = 250'

REV. NO.	DESCRIPTION	DATE
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SHEET NUMBER:

C1.0