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# FOREST PRESERVE DETAILED PROJECT WORK PLAN

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**Fiscal Year 2025**  
**Project # 2025-RB-005**  
**CO-WP-377**

<u>Region</u> 5	<u>Project Title</u> John Brown Farm Septic System Replacement
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<u>Project Type</u> Modification of Existing Structure/Improvement	<u>Town(s)</u> North Elba	<u>County</u> Essex	<u>Management Unit</u> John Brown Farm Historic Area
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Description of Desired Condition(s) for Project

The desired condition for the project is to ensure proper sanitary facilities exist at the John Brown Farm Historic Area, Caretaker's Cottage. To achieve this goal, a new septic system will be installed at the Caretaker's Cottage.

Description of Project Specifications

Construction of a new septic system to replace the existing system for the John Brown Farm Caretakers' Cottage. This includes installing plumbing to intercept and connect to the existing sanitary lateral, installing a 1,000-gallon concrete septic tank, and installing a distribution box with speed levelers and absorption field. The existing septic tank will be removed or perforated and filled with sand. The current septic system does not include an absorption field. See attached engineering plans for system details.

Description of Measures Taken to Avoid, Mitigate and Minimize Impacts to Natural Resources

The septic system will be located in an existing cleared area. This will minimize the number of trees required to be cut. This action involves cutting and removal of one tree between one and three inches in diameter at breast height (DBH), and six trees three-inches DBH and above. See attached tree tally for further details.

Erosion and sediment control best management practices will be used to prevent erosion and sedimentation. There will be no negative impacts to water resources from this project.

Upon completion of construction, the site will be restored by placing topsoil, seeding, and mulching over disturbed areas. The earth work will occur at area previously disturbed by human activity.

No rare, threatened, or endangered species are documented within 0.25 miles of the project location.

Analysis of Project Location and Design Alternatives

The current septic system which serves the Caretaker’s Cottage needs to be replaced, so the no action alternative is not viable. It is necessary to replace the sanitary facilities, to achieve environmental compliance with Department of Health (DOH) regulations and to mitigate septic system failure and associated environmental quality issues.

Description of Use of Motorized Equipment and/or Motor Vehicles (if any)

The project will require the use motor vehicles including an excavator, dump truck, and front-loader. Power tools and chainsaws will be used for the project.

Description of Applicable Standards for Accessibility by People with Disabilities

The nature of the septic system is not intended to provide public access. As part of this project, the ground surface and terrain at this site will be restored to their current condition.

Other Relevant Considerations

Review by the State Historic Preservation Office has found that the project will not impact nearby historic resources.

Prepared by (Name & Title): Steve Guglielmi  
Phone: (518) 897-1286

Date: 9/17/2024

Approvals:

Comments:



Regional Program Manager  
Date: 3/7/2025



Regional Director  
Date: 6/2/2025



On behalf of Fiona Watt

Division Director  
Date: 5/29/2025

**REGULATORY CLEARANCE CHECKLIST – STATE LANDS and CONSERVATION EASEMENT PROJECTS**

PROGRAM	PERMIT	REQUIRED		SECURED BY	COMMENTS
		YES	NO	(NAME)	
Air Resources	Restricted Burning	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Mineral Resources	Mining	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Materials Management	Solid Waste Mgt. Fac.	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Water	Dam Safety Review	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Const. in Flood Hazard	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Public Water Supply	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	SPDES	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Spills Management	Petro. Bulk Storage	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Lands and Forests	Unit Management Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Tree Cutting	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Included in work plan
	Protected Native Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Historic Preservation	<input type="checkbox"/>	<input checked="" type="checkbox"/>		SHPO has reviewed project
Fish and Wildlife	Freshwater Wetlands	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Wild Scenic & Rec. River	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Compliance Services	Other Protection of Waters	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	EAF	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Negative Declaration	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Env. Impact Statement	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Water Quality Cert.	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
DEC (other)	CP-17	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Commissioner (aircraft, motorized equipment)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Flight Request	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Contract Clearance Sh.	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	DOB Exemption	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Other Agencies	APA MOU	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Allowed under MOU	State Land consultation #SL20-24-0019
	APA Wetlands Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Corps. of Engineers	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Building Permits	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Local Permits	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Easements	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Highway Enter DOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Wastewater Disposal	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

**FOREST PRESERVE WORK PLAN TREE TALLY**

Project Name: John Brown Farm Septic System Replacement

State Land Unit: John Brown Farm Historic Area

County: Essex

Town: North Elba

Date Talled: 9/6/2024

Talled By: Steve Guglielmi

Species	Diameter															Total
	1 to 3	4	6	8	10	12	14	16	18	20	22	24	26	28	30	
Black cherry	1			3	1											
Quaking Aspen			2													
Total	1		2	3	1											7

Note: 1"- 3" size class are trees from 1.0" to 2.9" DBH. 4" size class are trees from 3.0" to 4.9". 6" size class are trees from 5.0" to 6.9".



Absorption field, facing west.

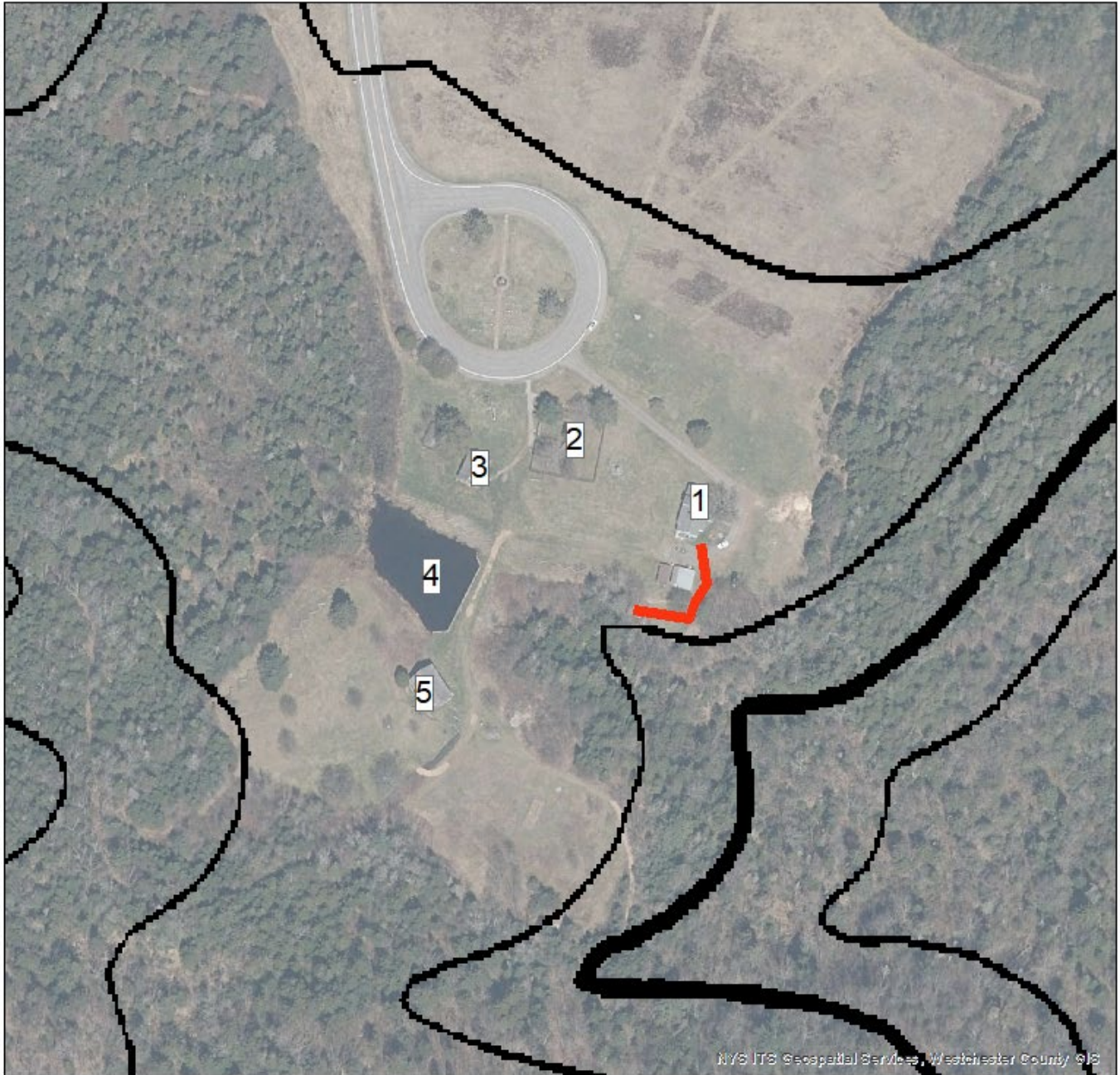


Absorption field, facing west.



Clump of trees to be removed for instalation of absorption field.

# John Brown Farm Septic System Replacement



## Legend

 New Septic Sytem Location

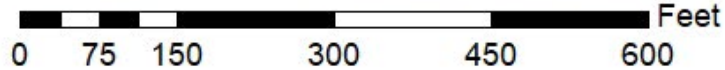
1- Caretaker's Residence

2- John Brown Grave

3- Farm House

4- Pond

5- Barn

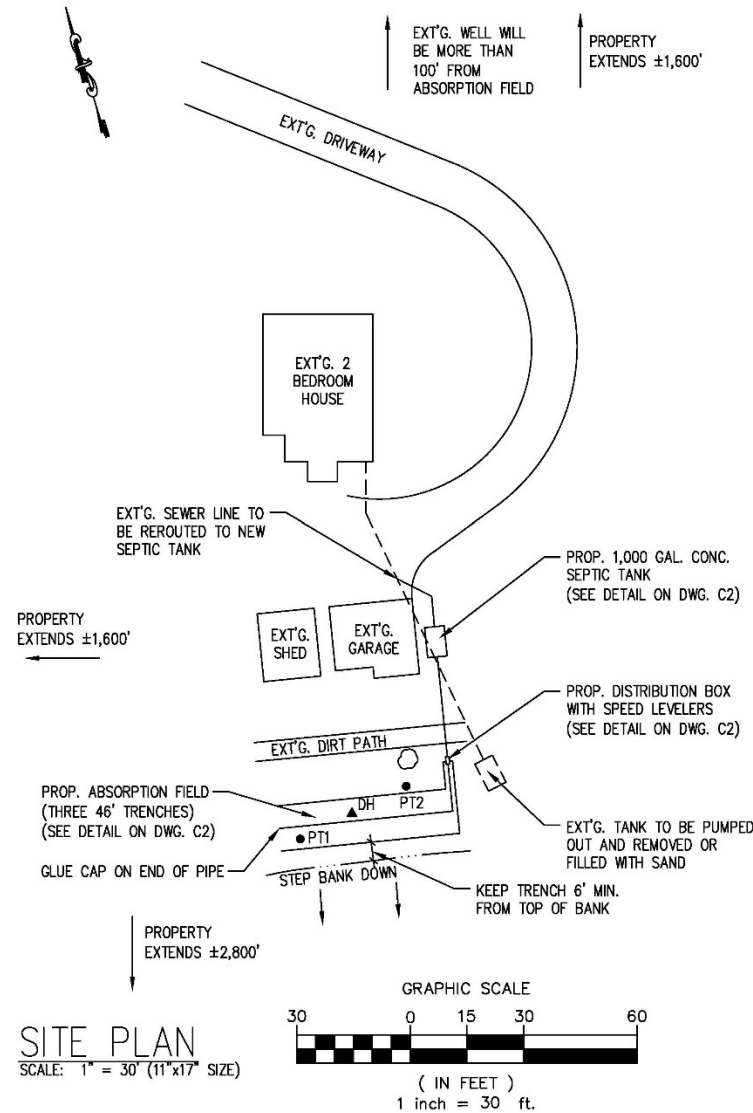


09/17/2024



**NOTES:**

1. SEPTIC SYSTEM TO COMPLY WITH ALL NYSDOH REQUIREMENTS, THE INDIVIDUAL RESIDENTIAL WASTEWATER TREATMENT SYSTEMS DESIGN HANDBOOK & ANY MANUFACTURE'S REQUIREMENTS AND BE INSTALLED AS PER THEIR RECOMMENDATIONS.
2. SYSTEM INSTALLER SHALL ENSURE REQ'D. SEPARATION DISTANCES ARE MET PRIOR TO AND DURING INSTALL.
3. SEE DRAWING C2 FOR DETAILS
4. THE ENGINEER RECOMMENDS INSTALLING AN EFFLUENT FILTER IN THE SEPTIC TANK. CONTRACTOR TO VERIFY W/ OWNER IF FILTER SHALL BE INSTALLED AND IF SO CONTRACTOR SHALL PROVIDE HOMEOWNER WITH NECESSARY INFORMATION TO MAINTAIN ROUTINE EFFLUENT FILTER CLEANING.
5. A GARBAGE DISPOSAL SHALL NOT BE USED WITH THIS SYSTEM. IF OWNER INSISTS ON A GARBAGE DISPOSAL, A DUAL COMPARTMENT SEPTIC TANK SHALL BE INSTALLED AND THE SIZE OF THE TANK SHALL BE INCREASED BY 250 GALLONS.
6. ANY TREE WITHIN 10' OF ANY SEPTIC SYSTEM COMPONENT SHALL BE REMOVED.
7. IF, AT ANY POINT DURING INSTALLATION, SOIL CONDITIONS ARE ENCOUNTERED THAT VARY FROM THE DEEP HOLE TEST DATA, STOP WORK AND CONTACT ENGINEER.
8. THE SEPTIC TANK SHALL BE PUMPED OUT EVERY 3-5 YEARS.
9. SUMP PUMPS, WATER SOFTENERS, AND ANY OTHER WATER TREATMENT SYSTEMS SHALL NOT DISCHARGE INTO THE SEPTIC TANK.
10. ALL PIPING BETWEEN HOUSE, SEPTIC TANK AND D-BOX SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE AND ANY BEND SHALL NOT EXCEED 45 DEGREES.
11. PRIOR TO EXCAVATING CONTACT DIG SAFELY NEW YORK AT 1-800-962-7962 OR 811.
12. SNOW SHALL NOT BE STOCKPILED ON THE ABSORPTION FIELD



DEEP HOLE TEST DATA				
DEPTH (IN.)	SOIL HORIZON	COLOR	TEXTURE	MOTTLING
0-4	TOPSOIL	BLACK	FINE	NO
4-22	LOAMY SAND	REDDISH BROWN	FINE	NO
22-60	SAND	BROWN	FINE	NO
TOTAL DEPTH OF USABLE SOIL: 60"				
STABILIZED PERC RATE AT 36" DEEP: 4 MINUTES				

KEEP BOTTOM OF TRENCH AS HIGH AS POSSIBLE WHILE MAINTAINING GRAVITY FLOW (BOTTOM OF TRENCH TO BE NO MORE THAN 36" BELOW EXT'G. GRADE (BOTTOM OF PIPE NO MORE THAN 30" BELOW EXT'G. GRADE)

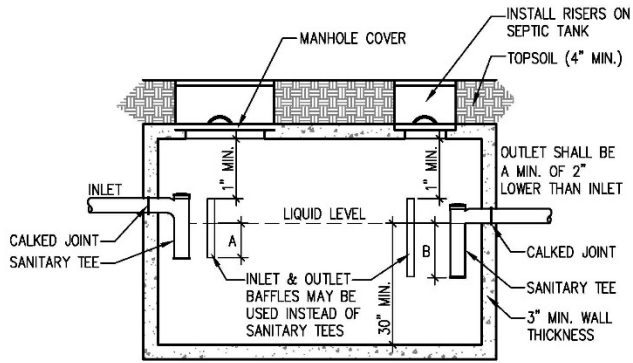
4" OF TOPSOIL & SEED TO BE PLACED OVER ENTIRE ABSORPTION FIELD AFTER INSPECTION

DO NOT INSTALL ANY PART OF THE SEPTIC SYSTEM UNTIL THE CODE OFFICIAL HAS ISSUED A PERMIT

ANY CHANGE FROM THE PLAN NEEDS TO HAVE APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION



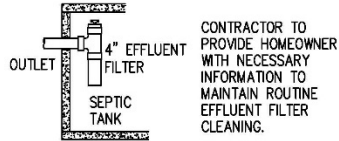
<b>SITE PLAN</b>	<b>MOSER ENGINEERING</b> 73 BUGBY ROAD CHAZY, NY 12521 518-548-3150 MOSERENGINEERING@YAHOO.COM WWW.MOSERENGINEERING.COM
<b>NYS PARKS - JOHN BROWN FARM CARETAKER'S COTTAGE SEWAGE TREATMENT SYSTEM 115 JOHN BROWN ROAD, LAKE PLACID NY 12946</b>	<b>C1</b>
<small>DATE: 5-23-23</small>	<small>PROJECT NO: 23-141</small>



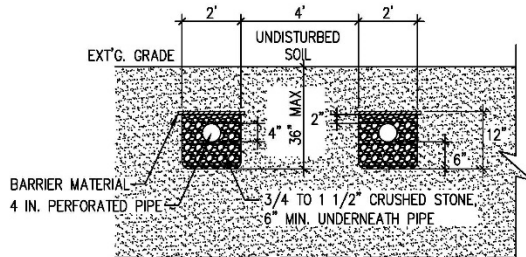
A = 12" MIN. FOR LIQUID DEPTH < 40" AND  
16" MIN. FOR LIQUID DEPTH ≥ 40"

B = 14" MIN. FOR LIQUID DEPTH < 40" AND  
18" MIN. FOR LIQUID DEPTH ≥ 40"

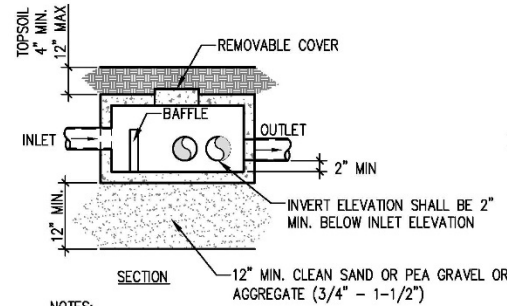
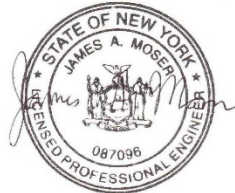
**SEPTIC TANK DETAIL**  
SEE SITE PLAN FOR REQUIRED SIZE



**EFFLUENT FILTER DETAIL (OPTIONAL)**  
N.T.S.



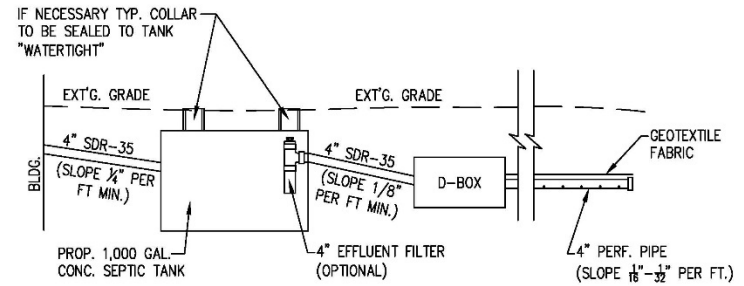
**TRENCH ABSORPTION FIELD**  
SCALE: N.T.S.



NOTES:

1. PIPE JOINTS TO BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT.
2. INVERT ELEVATION OF ALL OUTLET PIPES MUST BE EQUAL. USE OF SPEED LEVELING DEVICES IS RECOMMENDED.
3. THE PIPE FROM THE SEPTIC TANK TO THE DISTRIBUTION BOX INLET SHALL BE SLOPED AT 1/8" PER FOOT MIN.
4. THE SLOPE OF OUTLET PIPES BETWEEN THE DISTRIBUTION BOX AND DISTRIBUTION LATERALS SHOULD BE AT LEAST 1/32" PER FOOT.
5. BAFFLE REQUIRED FOR SIPHON OR AUTOMATIC DOSING OR IF INLET PIPE SLOPE EXCEEDS 1/2" PER FOOT.

**DISTRIBUTION BOX DETAIL**  
N.T.S.



**HYDRAULIC PROFILE**  
N.T.S.

<b>SITE PLAN</b>		<b>MOSE ENGINEERING</b> 73 BALSBY ROAD CHAZY, NY 12021 518-946-3160 MOSEENGINEERING@AOL.COM WWW.MOSERENGINEERING.COM
<b>NYS PARKS - JOHN BROWN FARM CARETAKERS COTTAGE SEWAGE TREATMENT SYSTEM 115 JOHN BROWN ROAD, LAKE PLACID NY 12946</b>		
DATE: 5-23-23	PROJECT NO. 23-141	<b>C2</b>