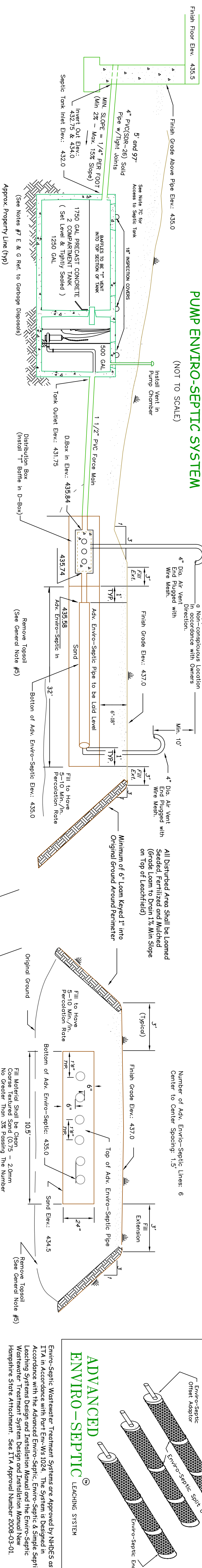


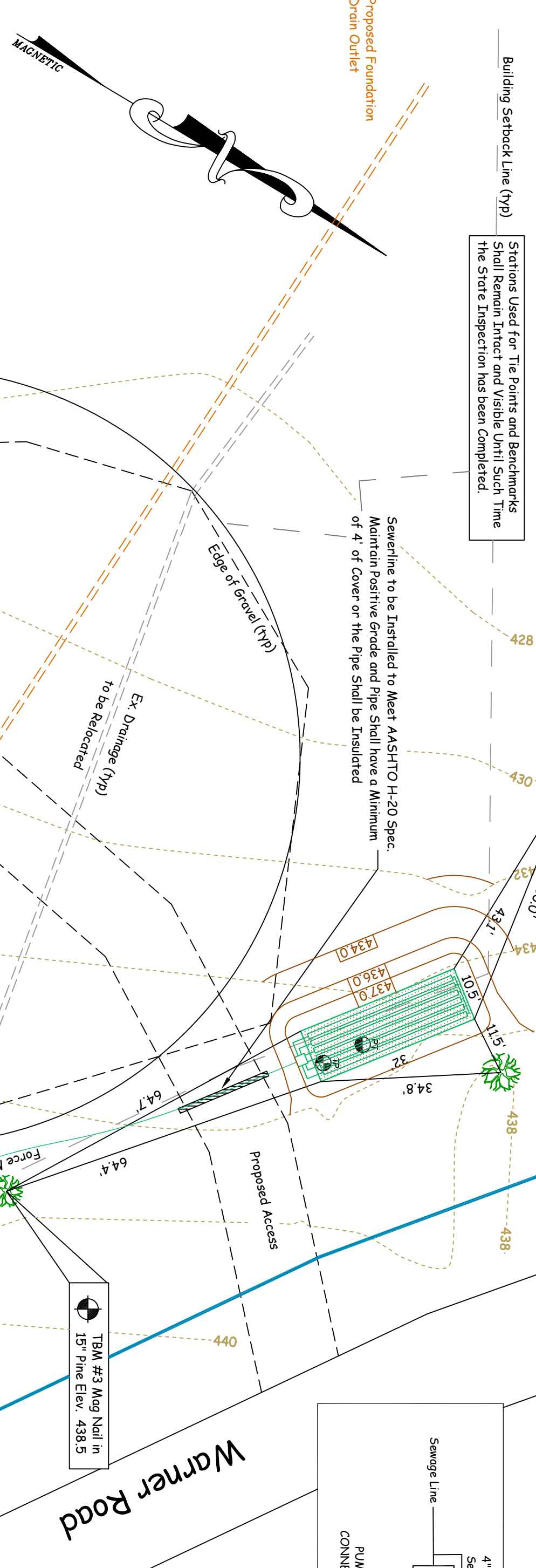
## RAISED ADVANCED PUMP ENVIRO-SEPTIC SYSTEM

(NOT TO SCALE)



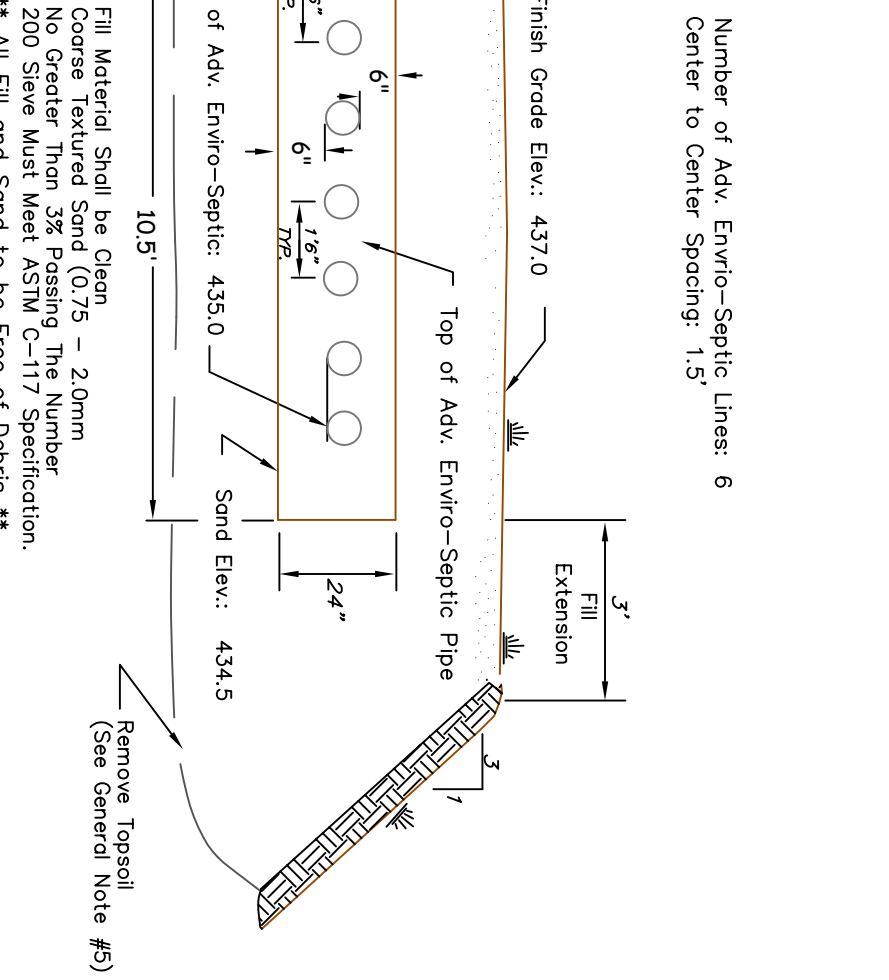
## PROFILE SECTION

(NOT TO SCALE)

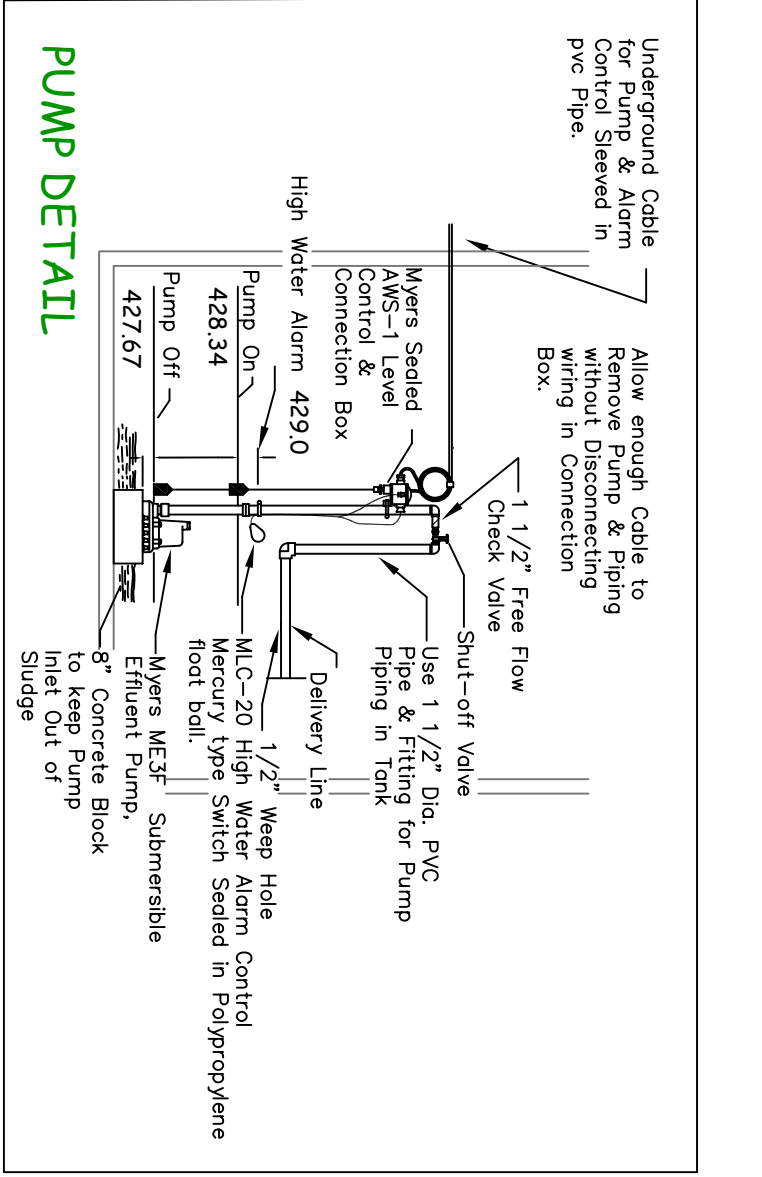


## CROSS SECTION

(NOT TO SCALE)



## PUMP DETAIL



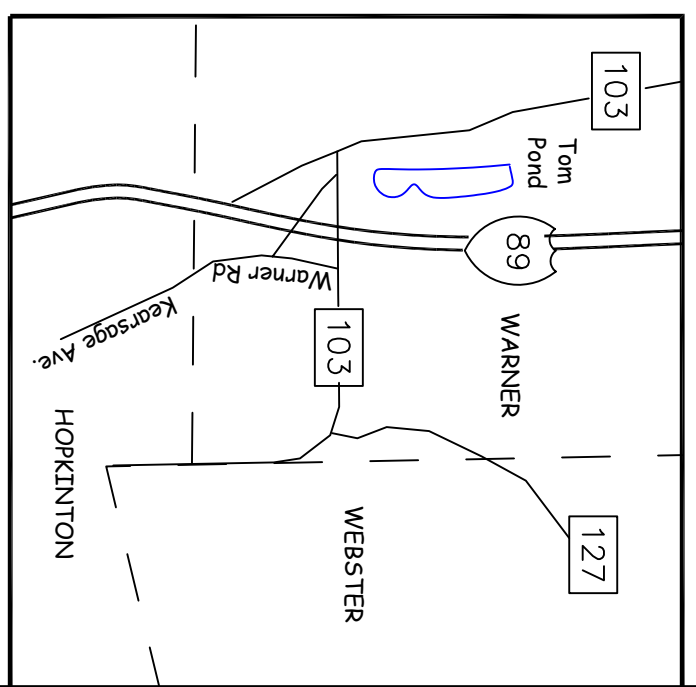
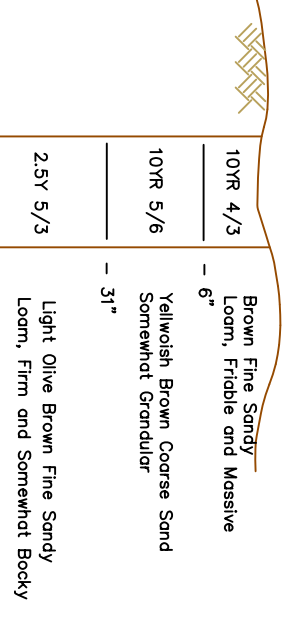
## Project Specific Notes:

300 gpd / 1.5 DOSE / DAY = 85.7 GAL / DOSE  
 ON / OFF SETTINGS = 85.7 GAL / DOSE / 10.75 GAL / INCH  
 PUMP WILL OPERATE APPROXIMATELY 1.5 MINS / DOSE  
 TOTAL HEAD = 8.4'

## Pump System Notes:

1. Provide 1750 gal Combination Tank with Spacer
2. Pump Storage Chamber to be Rerouted Waterlight, or Equivalent.
3. Furnish Myers MCSX Pump or Equivalent Submersible Pump & Install in Accordance with Manufacturer's Recommendations.
4. All Distances shown on Pump Detail. These distances Allow for 85.7 gal/dose Produced. Reflects 10.75 Gal/Inch of Volume in Chambering from Pump Chamber to Effluent Disposal Area.
5. All Underground Wiring to be Property Sized for Distance to be Installed as Shown unless Otherwise Directed.

## SOILS TEST PIT



1. The Contractor Shall Adhere Strictly to these Plans. Along with the Provision Set Forth in the NHDES Subsurface Bureau Manual, Subdivision and Individual Sewage Disposal System Design Rules, Dated October 2016 or the Most Current Updates to these Rules. Any Deviation to these Plans Shall Require Prior Approval From the Designer and NHDES Subsurface Bureau, Amended or Revised Plans Will be Required.
2. If the Contractor Determines, that the Existing Field Conditions are Other than Shown on these Plans, He/She Shall NOT Commence Work and Shall Immediately Notify the Owner and the Designer for Direction.
3. Any Future Replacement System, If Needed, Shall be Located in the Same Location as this Design, Unless Conditions at the Time of Replacement Dictate Otherwise. Repair and Replacements of Any System Requires Prior Approval from NHDES Subsurface Bureau.
4. All Vegetation, Boulder and Other Deleterious Material Shall be Removed from the Original Ground Throughout the Effluent Disposal Area Including the 5 Foot Fill Extension and Slope Embankments Prior to Piling the Fill Material.
5. The Contractor Shall Take Extra Precautions in Preparing the Effluent Disposal Area.
  - a. Protect the Natural Absorption Qualities of the Soil Debris.
  - b. Protect Open Excavation From Storm Runoff to Prevent the Entrance of Silt and Material Before the Fill or Uniform Crushed Stone is Placed or, In the Case of Other Systems, the Sand Bed is Constructed.
  - c. If the Cover Over the Septic Tank or Pumped Chamber is Greater than 12 Inches the Contractor Shall Provide a Raiser for Inspection and Cleaning, and to each Baffle with in the Tank.
  - d. If the Septic Tank Has an Effluent Filter Installed the Cover Over Tank shall be at grade.
  - e. If a Garbage Grinder or Disposal is or will be Installed in the Structure Served by the Septic Tank, The Tank Size shall be Increased by 50 %.
  - f. If Raw Sewage is to be Pumped into the Septic Tank, Whether or Not a Garbage Grinder or Disposal is or Will be used the Tank Size be twice the liquid capacity required by Env-Wq, 1010.02
  - g. Septic Tank Pumping Schedule Should be per NHDES Env-Wq, 1023.01 or More Frequently, If a Garbage Grinder or Disposal is Installed, The Tank Should be Pumped More Often.
8. Sewer Lines Under Wheel Loads Shall be Designed and Installed to Meet AASHTO H-20 Specifications and Buried at Least 4 Feet underground or Insulated.
9. Where Water Lines Must Cross Sewer Lines Must, the Sewer Line shall be at Least 18 Inches Below the Waterline. The Water Lines May be Closer than 18 Inches Above the Sewer Line if the Water Line is Encased in Concrete or Pipe Having an SDR of 26 for a Distance of 20 Feet on Both Sides of the Sewer Line.
10. If a Water Softener Exists or is Proposed to be Installed on the Water System, The Discharge Shall NOT be Connected to the Proposed or Existing Disposal Area. A Min-Dry Well for Grey Water Shall be Installed per NHDES Env-Wq 1022.02.
11. Distribution Box Shall Have Flow Equalizers Installed in the Other Part.
12. This System has NOT Been Designed for Vehicular Traffic, System Should be Protected from Any and All Wheel Traffic.
13. This Plan is NOT a Boundary Survey and is Not to be utilized for Boundary Line Determination or for the Matters Relating to Establishing Lot Lines. Property Lines to be Verified by the Owner Prior to Construction.
14. Site is NOT located within the 250 Feet of the Shoreline of a Great Pond, Unless Otherwise Noted.

## Design Criteria

Sewage Loading: 300 gpd (\*\*\*) See Above)  
 Percolation Rate: 12 Min./Inch  
 6 Rows of Advanced Enviro-Piping Required  
 30' L.F. of Enviro-Piping = 180' S.F.  
 Original Ground Elevation at the High Contour: 435.0  
 Bottom of System Design Elevation: 435.0

## Design Intent:

Bottom of Disposal Area to be Set at Elevation: 435.0 (No More Than 12 Inches Below the Original grade at the High Contour) to Maintain at least 24 Inches Above the Estimated Seasonal High Water Table and Ledger or Impenetrable Layer.

## Sewage Disposal System

RAISED ADVANCED ENVIRO-SEPTIC PUMP SYSTEM

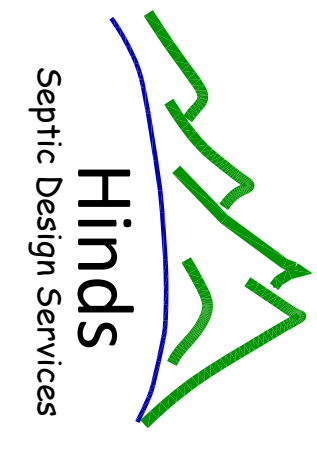
County: Merrimack  
 Dead Ref: Book 3707, Page 1105  
 NHDES Subdivision Approval:  
 NO.: 562008008423  
 Project No.: 230014  
 Date: 07-10-2023  
 Revised: 07-11-2023  
 Checked: DJH

ES&HW T: 36"  
 Depth: 32 Inches  
 DATE: 04-26-23  
 EXAMINED BY: Owner  
 SKEMED BY: Geotechnical Engineer  
 DATE: 04-26-23  
 REFERENCE: See Soil Survey  
 PERCOLATION TEST  
 RATE: 12 Min./Inch

Warner Stone, LLC  
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 Warner, New Hampshire

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Septic System Designs  
 Residential Land Planning  
 Lake Front Site Assessments  
 Wetlands Mapping  
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 Frank, NH 03220  
 Phone: 603-934-3113  
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REVIEWED AND APPROVED  
 IN ACCORDANCE WITH THE  
 REQUIREMENTS OF THE  
 NH DEPT. OF ENVIRONMENTAL SERVICES  
 WATER DIVISION  
 Date: 7/17/2023  
 #cA2023071727

Warner Stone, LLC  
 78 Warner Road  
 Warner, New Hampshire