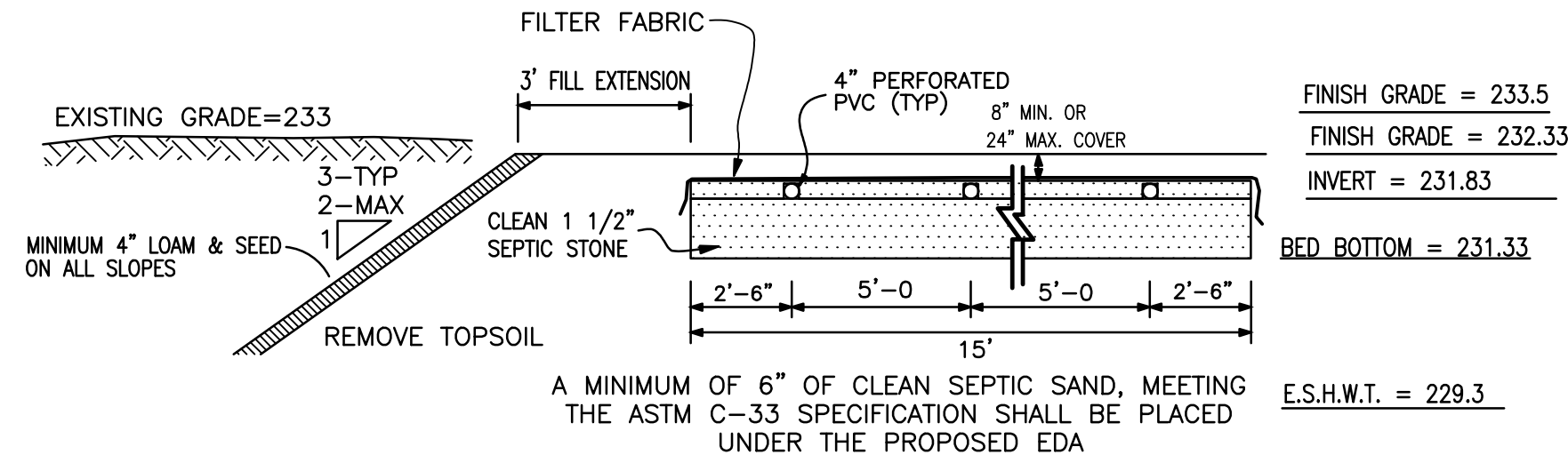


- NOTES:
- PURPOSE OF THIS PLAN IS TO DESIGN A SEPTIC SYSTEM (PIPE & STONE) THAT MEETS CURRENT NHDES AND LOCAL REGULATIONS FOR THE EXISTING 3 BEDROOM HOME W/ A 1 BEDROOM ACCESSORY DWELLING UNIT.
  - TOTAL PARCEL AREA 0.69 ACRES (FROM PLAN REFERENCES)
  - PERMITS PREVIOUS NHDES CONSTRUCTION APPROVAL: N/A PRE-1967  
PREVIOUS NHDES SUBDIVISION APPROVAL NUMBERS: N/A PRE-1967
  - THE MAJORITY OF THIS SITE LIES WITHIN THE 140B SCS SOILS GROUP AS SHOWN ON THE SCS SOILS MAPS FOR THE TOWN OF SALEM NEW HAMPSHIRE. 140B- CHATFIELD/HOLLIS/CANTON COMPLEX
  - SYSTEM LOADING CALCULATIONS:  
TOTAL NUMBER OF EXISTING BEDROOMS = 3  
TOTAL NUMBER OF PROPOSED BEDROOMS = 4  
(3 BEDROOM HOME WITH A 1 BEDROOM ADU)  
4.5 BEDROOMS X 150 GPD = 675 GPD  
PERCOLATION RATE: 8 MIN./INCH  
NHDES MINIMUM LEACHING FIELD SIZE = 1,128 SQ. FT.  
MINIMUM EDA SIZE USING CONCRETE CHAMBERS = 677 SQ. FT.
  - USE 15' X 76' PIPE & STONE FIELD, TOTAL AREA = 1,140 SQ. FT.
  - DESIGN INTENT: BOTTOM OF THE PROPOSED LEACHING FIELD SHALL BE **1.67 FEET** BELOW THE EXISTING GRADE ON THE UPHILL SIDE.
  - SEPTIC TANK: USE (1) 2,500 GALLON PRECAST CONCRETE SEPTIC TANK AS MANUFACTURED AND DISTRIBUTED BY PHEONIX PRECAST CONCRETE, OR APPROVED EQUAL.
  - DISTRIBUTION BOX: USE (1) 3 OUTLET PRECAST CONCRETE DISTRIBUTION BOX AS MANUFACTURED AND DISTRIBUTED BY PHEONIX PRECAST CONCRETE, OR APPROVED EQUAL.
  - EQUALIZER FLOW DIVIDERS ARE NOT TO BE INSTALLED WITH THIS DESIGN.
  - PER TOWN OF SALEM REGULATIONS AN EFFLUENT FILTER IS PROPOSED WITH THIS DESIGN. ZABEL MODEL A1800, OR APPROVED EQUAL, SHALL BE PLACED ON THE OUTLET OF THE PROPOSED SEPTIC TANK. ZABEL FILTERS DISTRIBUTED BY ZABEL ENVIRONMENTAL TECHNOLOGY, LOUISVILLE, KY 40299 - PHONE: (800) 221-5742
  - NEAREST NEIGHBORING WELL OR GROUP 6 SOIL ARE ALL GREATER THAN 75 FEET AWAY FROM THE PROPOSED SYSTEM. NEAREST GROUP 5 SOIL IS GREATER THAN 50 FEET FROM THE PROPOSED EDA. WETLANDS REVIEWED ON SITE IN ACCORDANCE WITH ENV-WQ 1014.06.
  - SHOULD FAILURE OCCUR THIS SYSTEM SHALL BE REBUILT IN-PLACE
  - PIPES LEADING TO AND EXITING FROM THE PROPOSED SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOX SHALL BE SEALED WITH AN APPROVED METHOD AS TO MAKE THE JOINTS WATERTIGHT PER ENV-WQ 1010
  - PRIOR TO THE START OF CONSTRUCTION ALL BENCHMARKS SHALL BE VERIFIED FOR ACCURACY.
  - FOUNDATION DRAINS: NONE OBSERVED, NO FOUNDATION DRAINS SHALL BE INSTALLED WITHIN 15 FEET OF THE PROPOSED SEPTIC SYSTEM OR WITHIN 5 FEET OF THE PROPOSED SEPTIC TANK.
  - NO GARBAGE DISPOSAL IS PROPOSED WITH THIS DESIGN. SHOULD THE PROPOSED HOMEOWNER CHOOSE TO ADD A GARBAGE DISPOSAL THEN THE DESIGN WILL NEED TO BE AMENDED TO INCREASE THE SEPTIC TANK CAPACITY BY 50%. (ENV-WS 1010.01(c))
  - NO SEWAGE GRINDER IS PROPOSED WITH THIS DESIGN. SHOULD THE HOMEOWNER CHOOSE TO ADD A SEWAGE GRINDER THEN THE TANK SIZE SHALL BE TWICE THE SIZE REQUIRED, THIS SHALL BE ACCOMPLISHED BY TANK DUPLICATION OR COMPARTMENTALIZATION. (ENV-WS 1010.01(d))
  - JOINTS ARE TO BE BELLED PVC OR STANDARD SLIP COLLARS.
  - 2' OF COVER OVER THE FIELD SHALL BE PROVIDED WHERE MOTOR VEHICLE TRAFFIC WILL PASS OVER THE SEPTIC SYSTEM.
  - FILL SHALL NOT BE OF SATURATED MATERIAL.
  - ALL TREES, ROOTS, TOPSOIL, AND ORGANIC MATERIAL MUST BE REMOVED FROM THE AREA TO BE FILLED, OUT TO AND INCLUDING THE AREA UNDER THE IMPERMEABLE SOIL BARRIER. FILL MATERIAL TO BE OF CLEAN MEDIUM TO COURSE SAND, FREE OF TOPSOIL, HUMUS, DREDGING OR STONES OVER 6" IN DIAMETER.
  - INSTALLER TO PROVIDE MEASURED TIES TO THE PROPERTY OWNER OF THE LOCATION OF THE SEPTIC TANK ACCESS COVERS.
  - ANY DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE DESIGNER BEFORE CONTINUING WITH THE INSTALLATION.
  - A MINIMUM OF 6" OF MEDIUM TO COURSE SAND WITH LESS THAN 5% PASSING THE #200 SIEVE IS REQUIRED UNDER THE FIELD
  - INSTALLER TO CONTACT DIG-SAFE A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
  - WATER SOFTENERS, JACUZZI TUBS OR SIMILAR AMENITIES SHALL NOT BE DISCHARGED DIRECTLY INTO THE PROPOSED FIELD. IF SUCH AMENITIES ARE PROPOSED THE IN THE STRUCTURE THEN THE CONTRACTOR SHALL NOTIFY THE DESIGNER AND AN ALTERNATIVE FOR THESE SERVICES WILL BE DEVISED AND INSTALLED.
  - MAINTENANCE: RECOMMEND INSPECTION OF THE SEPTIC TANK AT LEAST ONCE EVERY TWO YEARS AND PUMP OUT IF THE COMBINED THICKNESS OF SLUDGE AND SCUM EQUALS MORE THAN 1/4 OF THE LIQUID DEPTH INSIDE THE TANK.
  - THERE ARE NO KNOWN BURIAL SITES OR CEMETERY'S ON THE LOT OR WITHIN 100 FEET OF ANY PART OF THE SEPTIC SYSTEM IN ACCORDANCE WITH ENV-WQ 1003.13(A)(3)
  - EXISTING TANK TO BE PUMPED OUT, CRUSHED AND REMOVED
  - THIS PLAN REQUIRES A WAIVER FROM THE TOWN OF WINDHAM NH BOARD OF HEALTH

NOTE:

FILL MATERIAL IMMEDIATELY UNDER THE BED SHALL BE MEDIUM TO COURSE TEXTURED SAND (0.25MM-2.0MM) WITH NO MORE THAN 5% PASSING THE #200 SIEVE, AND NO PARTICLES SIZE LARGER THAN 3/4 INCH OR MATERIAL MEETING THE ASTM C-33 SPECIFICATIONS. IF BED IS RAISED MORE THAN 3.0 FEET, PLACE COURSE TEXTURED SAND IN 16" LIFTS. CONSOLIDATE AND RAKE SURFACE PRIOR TO SETTING NEXT LIFT. EXTEND 5 FEET AROUND AND UNDER SIDESLOPES.



SEPTIC STONE REQUIREMENTS:

SEPTIC STONE SHALL BE CLEAN, UNIFORM IN SIZE, SHAPE, AND WEIGHT, WASHED ROCK OR SIMILAR WITH A RANGE OF 0.75 INCHES TO 1.5 INCHES. ENV-WQ TABLE 1014-2

REVIEWED AND APPROVED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES' WATER DIVISION

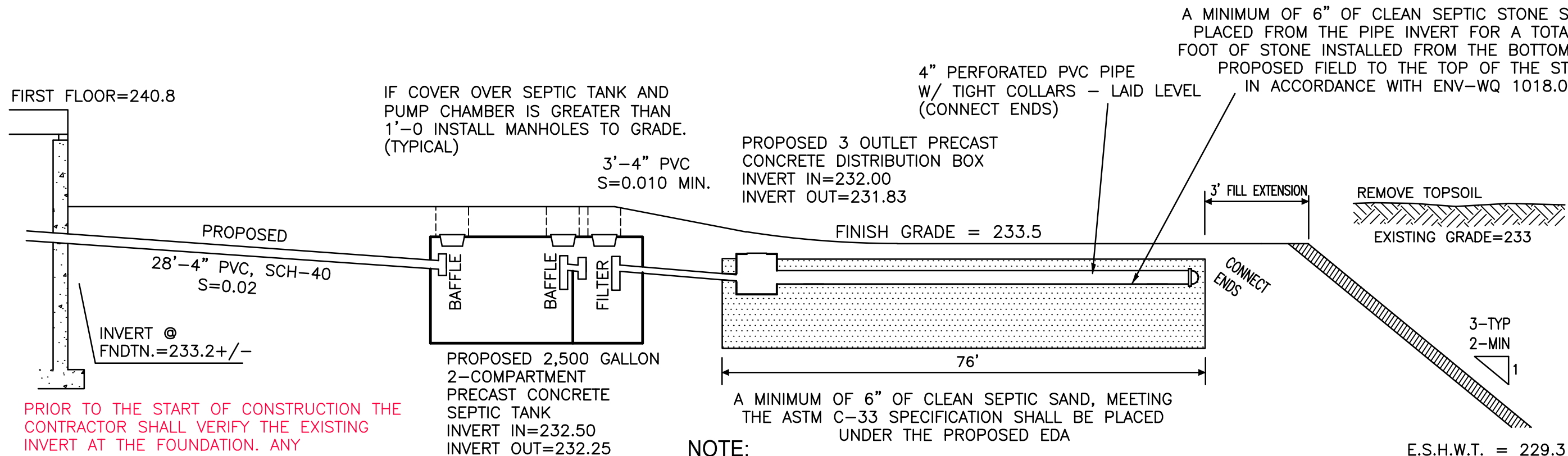
ENV-WQ 1014-2

APPROVED SEPTIC STONE SHALL MEET THE SIEVE SIZE AND WEIGHT REQUIREMENTS IN ACCORDANCE WITH AASHTO T-11-85, WHICH REPLACES AASHTO T-11-85, WHICH APPLIES TO SEPTIC STONE. FOR RETAIL PURCHASE, AS SET FORTH IN ENV-WQ TABLE 1014-2

Date: 1/5/2026

#eCA2026010513

TYPICAL SECTION A-A



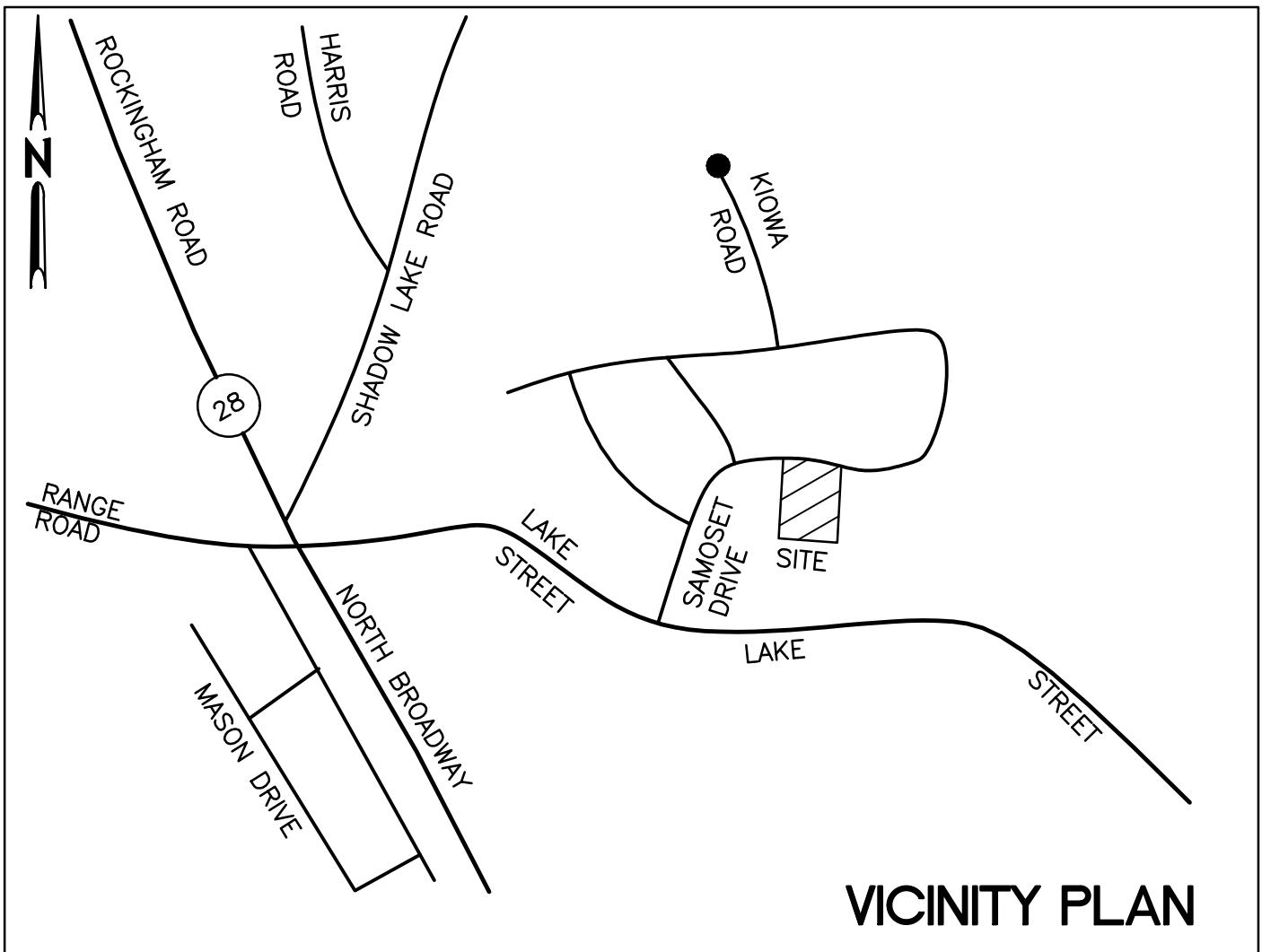
NOTE:

FILL MATERIAL IMMEDIATELY UNDER THE BED SHALL BE MEDIUM TO COURSE TEXTURED SAND (0.25MM-2.0MM) WITH NO MORE THAN 5% PASSING THE #200 SIEVE, AND NO PARTICLES SIZE LARGER THAN 3/4 INCH OR MATERIAL MEETING THE ASTM C-33 SPECIFICATIONS. IF BED IS RAISED MORE THAN 3.0 FEET, PLACE COURSE TEXTURED SAND IN 16" LIFTS. CONSOLIDATE AND RAKE SURFACE PRIOR TO SETTING NEXT LIFT. EXTEND 5 FEET AROUND AND UNDER SIDESLOPES.

TYPICAL SYSTEM PROFILE

SITE LOADING CALCULATION

|                               |   |            |
|-------------------------------|---|------------|
| TOTAL LOT AREA                | = | 0.69 ACRES |
| AREA W/IN WELL RADIUS         | = | 0.25 ACRES |
| AREA USEABLE FOR CALC         | = | 0.44 ACRES |
| 0.44 ACRES * 2,000 GPD/AC     |   |            |
| 1.3 SOIL FACTOR               | = | 677 GPD    |
| TOTAL ALLOWABLE SITE LOADING  | = | 677 GPD    |
| TOTAL PROPOSED SYSTEM LOADING | = | 675 GPD    |



TEST PIT A

(CONDUCTED ON NOVEMBER 15, 2025)

0-4" TOPSOIL (10YR 3/3)  
LOAM, GRANULAR, FRIABLE

4"-44" (10YR 5/4) SANDY FILL  
GRANULAR, FRIABLE.

44"-66" (2.5Y 5/4) SAND  
GRANULAR, FRIABLE

ESHW: 44"  
NO WATER OBSERVED  
NO LEDGE ENCOUNTERED  
PERC. RATE: 8 MIN./INCH



NEW HAMPSHIRE  
Designer of  
Subsurface Disposal  
Systems  
\*\*\*  
Joseph Maynard  
No. 1135  
Water Supply & Pollution Control

SEPTIC SYSTEM PLAN

TAX MAP 55 LOT 6805

#14 SAMOSET DRIVE

SALEM, NEW HAMPSHIRE 03079

OWNER OF RECORD/PREPARED FOR  
JAMES MENIATES JR & GAIL EMANIATES 2019 TRUST

14 SAMOSET DRIVE

SALEM, NEW HAMPSHIRE 03079

RCRD BOOK 6653/PAGE 1045

SCALE: 1"=20'

SHEET 1 OF 1 DECEMBER 12, 2025

|           |      |
|-----------|------|
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
| REVISIONS | DATE |

BENCHMARK LLC  
Consulting Engineers Land Planners  
50 Nashua Road, Suite 305  
Londonderry, New Hampshire 03053  
Phone: (603) 437-5000