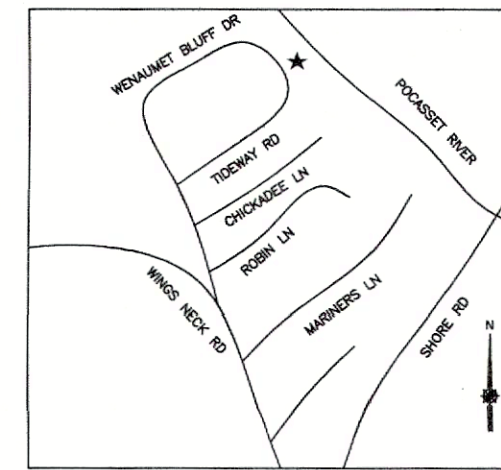
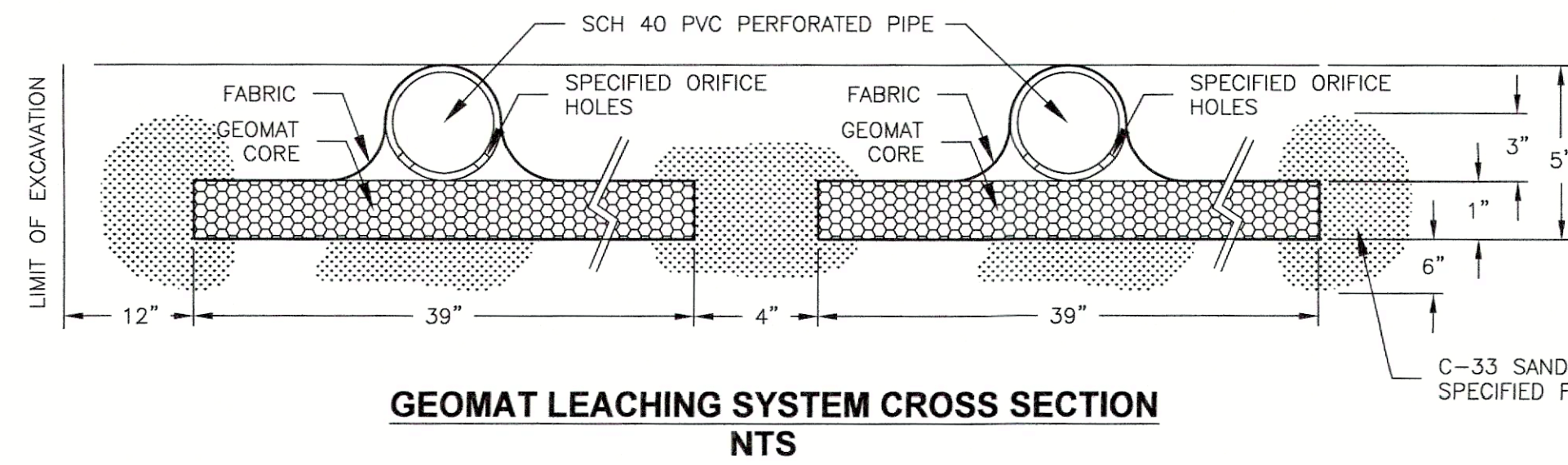
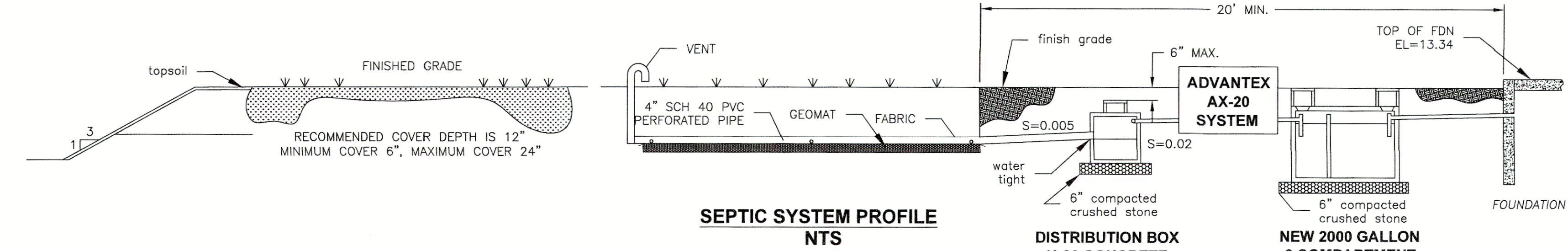
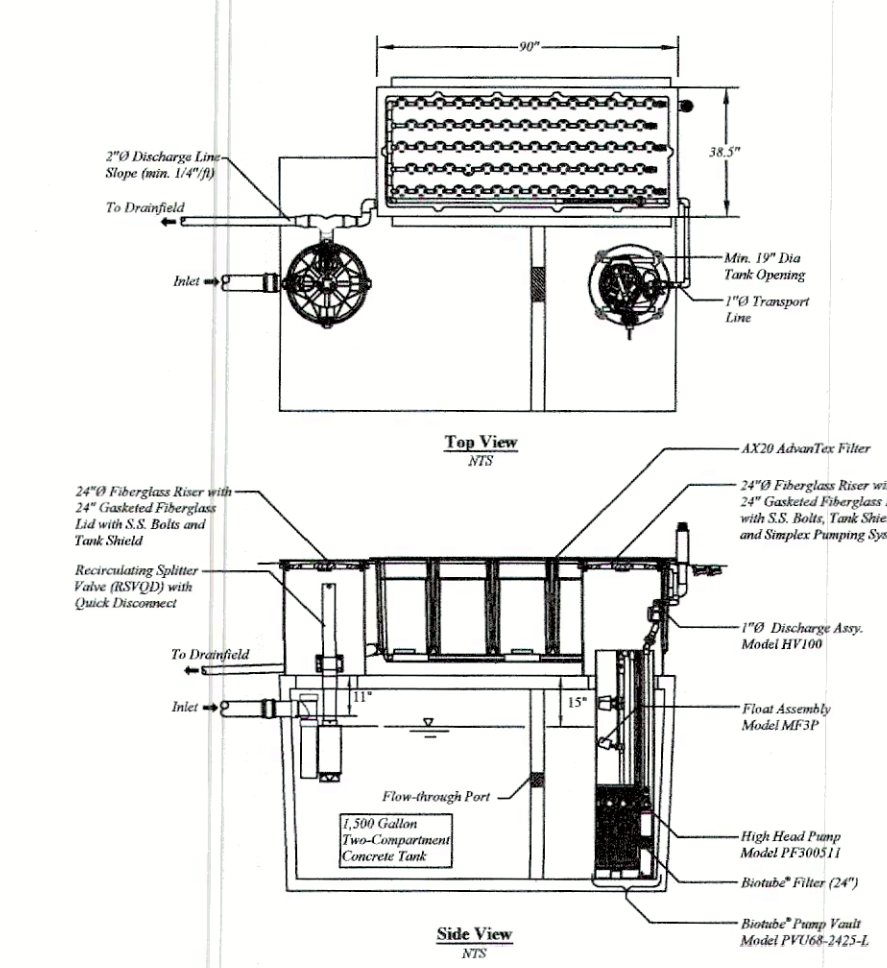


LOCAL UPGRADE APPROVAL REQUESTS
 310 CMR 15.405(1)(g)-TO REDUCE REQUIRED SETBACK FROM SAS
 TO PROPERTY LINE FROM 10 FEET TO 5 FEET
 310 CMR 15.405(1)(f)-TO REDUCE REQUIRED SETBACK FROM SYSTEM
 TO TOP OF BANK FROM 50 FEET TO 18 FEET

SITE IS LOCATED IN FEMA ZONE AE

MASS DEP REMEDIAL APPROVAL OF ADVANTEX AX-20 SYSTEM ALLOWS
 UP TO 50% REDUCTION IN LEACH AREA-PROPOSED LEACH AREA=290 SQUARE FEET
 MASS DEP GENERAL APPROVAL OF ADVANTEX AX-20 SYSTEM ALLOWS
 EFFLUENT TOTAL NITROGEN LIMIT OF 19 MG/L
 ONGOING CONTINUOUS OPERATIONS AND MAINTENANCE CONTRACT
 WITH CERTIFIED OPERATOR IS REQUIRED

AdvanTex® AX20 Mode 3A



Soil Suitability Assessment for On-Site Sewage Disposal

DEEP OBSERVATION HOLE LOG #1

Depth from Surface (feet)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Moisture	Notes (Structure, Stone, Boulder, Contaminant, etc.)
0-6	FILL	-	-	-	PEASTONE DRIVEWAY
6-32	A/B	SANDY LOAM	10YR3/2	-	FRABLE
32-50	C1	MEDIUM TO COARSE SAND	2.5Y6/4	NONE	LOOSE, SINGLE GRAIN, <5% GRAVEL, FEW COBBLES
50-98	C2	MEDIUM TO COARSE SAND	2.5Y7/3	NONE	LOOSE, SINGLE GRAIN, <5% GRAVEL, FEW COBBLES CAVING IN

ELEVATION SCHEDULE

ELEVATION PROPOSED FLOW LINE	ELEVATION "AS-BUILT"
INVERT AT FOUNDATION	9.92 EXISTING
INVERT INTO PRIMARY TANK	9.18
INVERT OUT OF ADVANTEX TANK	10.33
INVERT INTO D-BOX	9.11
INVERT OUT OF D-BOX	8.94
INVERT AT BEGINNING OF FIELD	8.83
BOTTOM OF FIELD	8.63
WATER TABLE (BY HIGH TIDE MONITORING)	3.63
FINISH GRADE OVER FIELD	10.0

STRUCTURE LOCATIONS

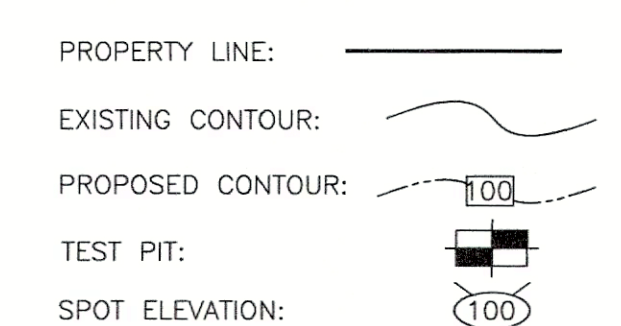
- HOUSE CORNER "A" TO SEPTIC TANK COVER
- HOUSE CORNER "B" TO SEPTIC TANK COVER
- HOUSE CORNER "A" TO DISTRIBUTION BOX
- HOUSE CORNER "B" TO DISTRIBUTION BOX
- HOUSE CORNER "A" TO END OF FIELD
- HOUSE CORNER "B" TO END OF FIELD
- HOUSE CORNER "A" TO OBSERVATION PORT
- HOUSE CORNER "B" TO OBSERVATION PORT

Percolation Test*

Date:	8/11/2022
Observation Hole#:	1
Rate Min./Inch:	<2 MIN/INCH

PERC RATE DETERMINED BY STEPHEN B NELSON REHS/RS WITNESSED BY TERRI GUARINO RS HEALTH AGENT

Certification
 I certify that on 10/27/97 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience in 310 CMR 15.017.
 Signature: *[Signature]* Date: 9/11/2022



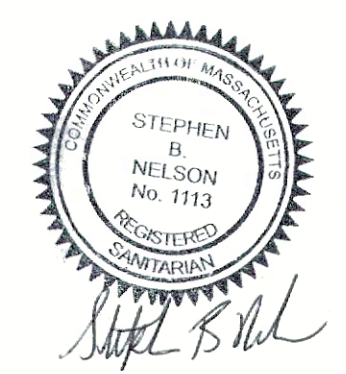
I certify that this subsurface disposal system was inspected on _____ and found to have been in compliance with Title 5 of the State Environmental Code, Board of Health requirements, and the approved plan.
 Stephen B. Nelson
 Registered Sanitarian

I certify that this subsurface disposal system was constructed in compliance with Title 5 of the State Environmental Code, Board of Health requirements, and the approved plan.

 Installing Contractor

- NOTES:
- CONSTRUCT SEPTIC SYSTEM REPAIR IN ACCORDANCE WITH STATE ENVIRONMENTAL CODE - TITLE 5, AND RULES AND REGULATIONS OF THE BOURNE BOARD OF HEALTH.
 - SEPTIC SYSTEM IS NOT DESIGNED FOR A GARBAGE GRINDER.
 - ESTIMATED SEWAGE FLOW EQUALS 330 GPD BASED ON 3 BEDROOMS AT 110 GPD.
 - INSTALL NEW 2000 GALLON 2 COMPARTMENT PRECAST CONCRETE TANK.
 - ALL PIPING SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE NOTED.
 - BENCHMARK HAS BEEN ESTABLISHED AS TOP OF FOUNDATION AS SHOWN. ELEVATION = 13.34
 - SYSTEM CONSTRUCTION MUST BE INSPECTED BY THE BOARD OF HEALTH AND/OR ITS AGENT AND THE SYSTEM DESIGNER ACCORDING TO THE FOLLOWING SCHEDULE (24 HOUR NOTICE REQUIRED)-
 - A. EXCAVATION INSPECTION PRIOR TO INSTALLATION.
 - B. INSPECTION OF SAND REFILL AS REQUIRED.
 - C. FINAL CONSTRUCTION INSPECTION BEFORE BACKFILLING.
 - D. FINAL GRADING INSPECTION.
 - WATER SUPPLY SETBACK DISTANCES TO PROPOSED LEACH AREA...
 - PUBLIC WATER SUPPLY (SURFACE OR GRAVEL PACKED WELLS)- LESS THAN 400 FEET - NONE FOUND.
 - SYSTEM NOT LOCATED IN DEP ZONE II.
 - PRIVATE WELLS - LESS THAN 200 FEET - NONE FOUND.
 - DESIGN CALCULATIONS-
 - TOTAL DAILY FLOW = 330 GPD - 3 BEDROOMS
 - SOIL TEXTURAL CLASS I LTAR = 0.74 GPD/SQ FT
 - LEACHING AREA = 330 GPD / 0.74 GPD/SQ FT = 446 SQ FT.
 - GEOMAT IS MASS DEP APPROVED FOR 40% LEACHING AREA REDUCTION
 - ADVANTEX AND GEOMAT ARE MASS DEP APPROVED FOR 2 FT GROUNDWATER SEPARATION REDUCTION
 - MINIMUM LEACH AREA - 267.6 SQ FT W/40% MASS DEP REDUCTION
 - GEOMAT LOADING RATE (TABLE 1) 1.5 GPD/SF
 - GEOMAT FLAT 3900 EFFECTIVE LEACHING AREA - 3.42 SQ FT/LIN FT
 - GEOMAT REQUIRED 330 GPD/1.5 GPD/SF = 220 SQ FT
 - 220 SF/3.42 SF/LF = 64.4 LIN FT (MIN)
 - 3 ROWS @ 21.5 FT PER ROW PLUS 1 FT OVERDIG = 23.5 FT LONG
 - 10.4 FT WIDE PLUS 1 FT OVERDIG = 12.4 FT WIDE
 - 3 ROWS SPACED 4 INCHES APART
 - TOTAL GEOMAT 64.5 LINEAR FEET
 - TOTAL AREA = 23.5 FT X 12.4 FT = 291.4 SQ FT
 - PROPERTY LINE INFORMATION TAKEN FROM "SITE PLAN"
 - BY WM M WARRICK & ASSOCIATES
 - DATE 1/18/98 REVISED 2/9/00
 - ASSESSOR MAP PARCEL ID 38.3-89-0

RECEIVED
 By Bourne Health Department at 9:42 am, Nov 30, 2022



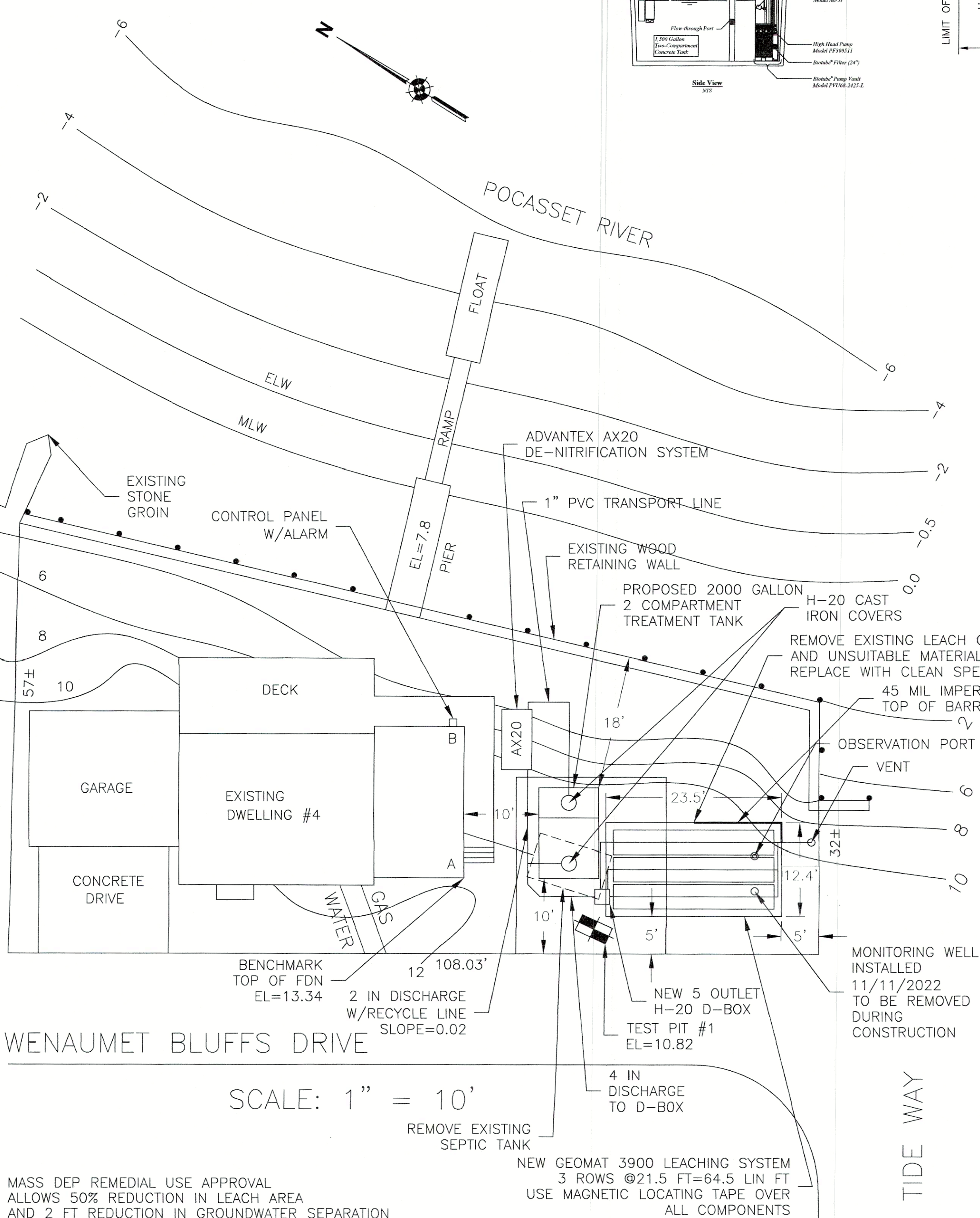
STEPHEN B. NELSON REHS/RS

SEPTIC SYSTEM REPAIR PLAN
 KRISTIN SEASTRAND
 4 WENAUMET BLUFFS DRIVE BOURNE MA
 PARCEL ID 38.3-89-0

DWG. NO.: BOUR4WENAMUET
 SCALE: AS NOTED
 DATE: 11/28/2022
 SHEET 1 OF 1

DESIGNED BY: *[Signature]*
 DRAWN BY: *[Signature]*
 CHECKED BY: *[Signature]*
 APPROVED BY: *[Signature]*

STEPHEN B. NELSON LLC
 175 SPRING STREET
 ROCKLAND, MA 02370
 IBWaterman@a1.com



MASS DEP REMEDIAL USE APPROVAL
 ALLOWS 50% REDUCTION IN LEACH AREA
 AND 2 FT REDUCTION IN GROUNDWATER SEPARATION

NEW GEOMAT 3900 LEACHING SYSTEM
 3 ROWS @21.5 FT=64.5 LIN FT
 USE MAGNETIC LOCATING TAPE OVER
 ALL COMPONENTS

SCALE: 1" = 10'