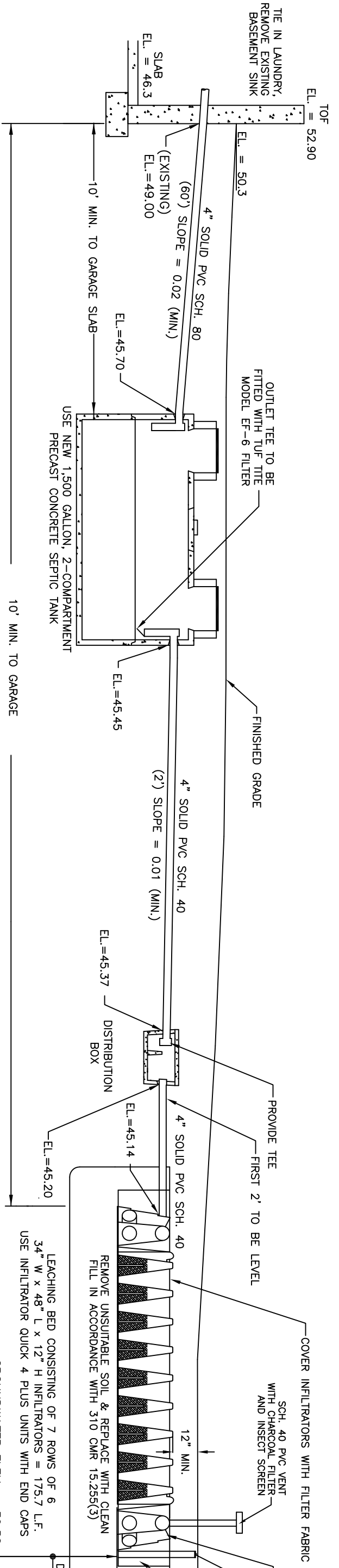




LOCUS PLAN

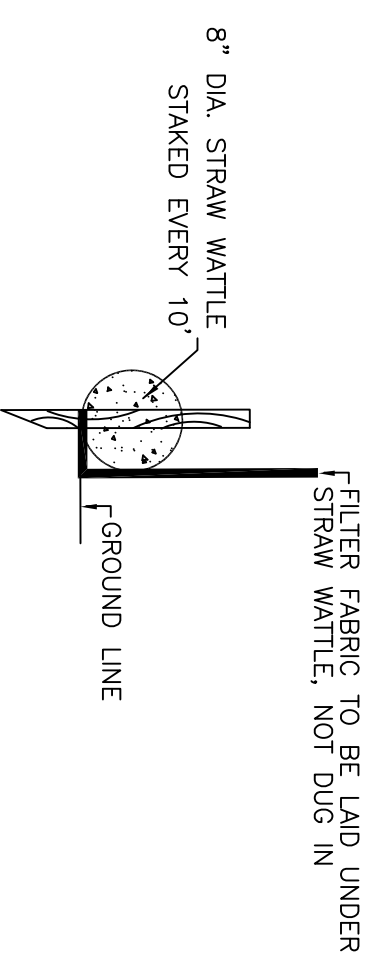


SEPTIC SYSTEM PROFILE
NOT TO SCALE

ELEVATION SCHEDULE:

DESCRIPTION	ELEVATION
4" INV. AT HOUSE (EXISTING)	49.00
4" INV. AT SEPTIC TANK (IN)	45.70
4" INV. AT SEPTIC TANK (OUT)	45.45
4" INV. AT DIST. BOX (IN)	45.37
4" INV. AT DIST. BOX (OUT)	45.20
4" INV. INTO SAS	45.14
ELEVATION AT BOTTOM OF SAS	44.70
GROUNDWATER ELEVATION	39.50

ELEVATION SCHEDULE:

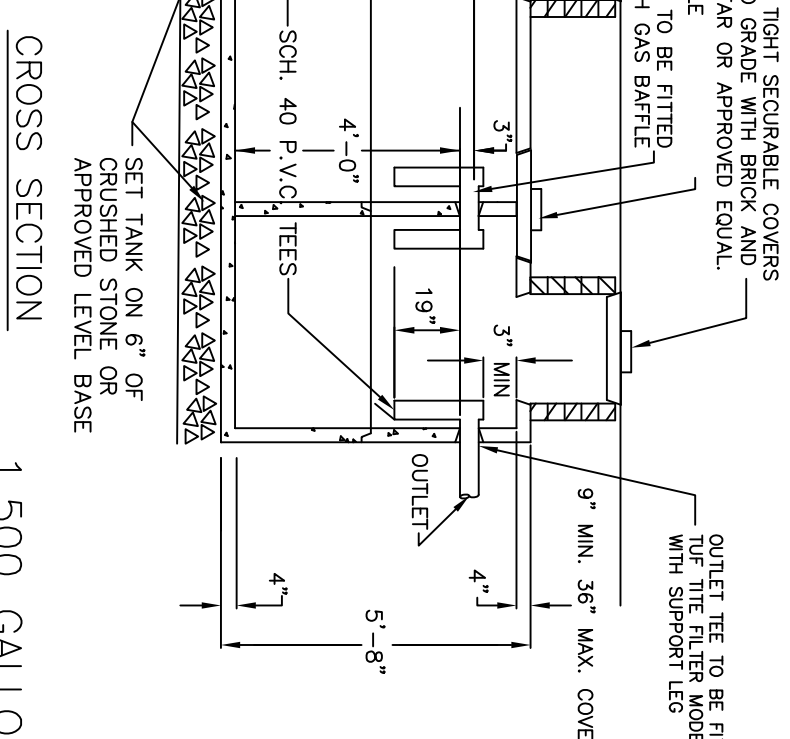


EROSION CONTROL DETAILS
NOT TO SCALE

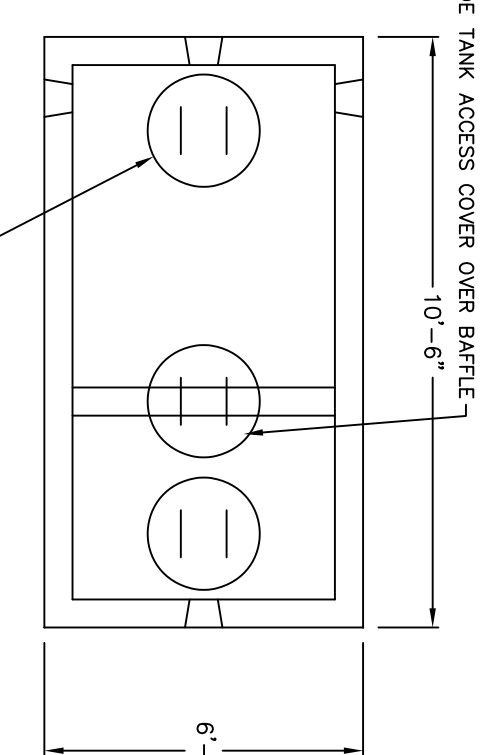
- WETLAND AND EROSION CONTROL NOTES**
1. WETLAND DELINEATION PERFORMED BY GEORGE R. COLLINS, P.E.
 2. EROSION CONTROL TO BE INSTALLED PRIOR TO ANY ACTIVITY AND REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
 3. CONTRACTOR RESPONSIBLE FOR IMPLEMENTING ALL CONSERVATION COMMISSION AND BOARD OF HEALTH DIRECTIVES.
 4. THE SITE IS NOT LOCATED IN AN AREA OF CRITICAL ENVIRONMENTAL CONCERN.
 5. CONTRACTOR TO SWEEP STREET AT THE END OF EACH WORK DAY.
 6. THE NAME AND CONTACT NUMBERS OF THE GENERAL CONTRACTOR MUST BE PROVIDED TO THE ENGINEER AND CONSERVATION COMMISSION PRIOR TO STARTING WORK.
 7. CONTRACTOR TO MONITOR, REPAIR AND MODIFY EROSION CONTROL TO ASSURE THAT THERE IS NO WETLAND RESOURCE AREA OR ADJUTER ENCROACHMENT.
 8. NO SOILS OR MATERIAL TO BE STORED WITHIN 100' BUFFER AS SHOWN ON PLAN.

LOCAL UPGRADE APPROVAL REQUESTS:

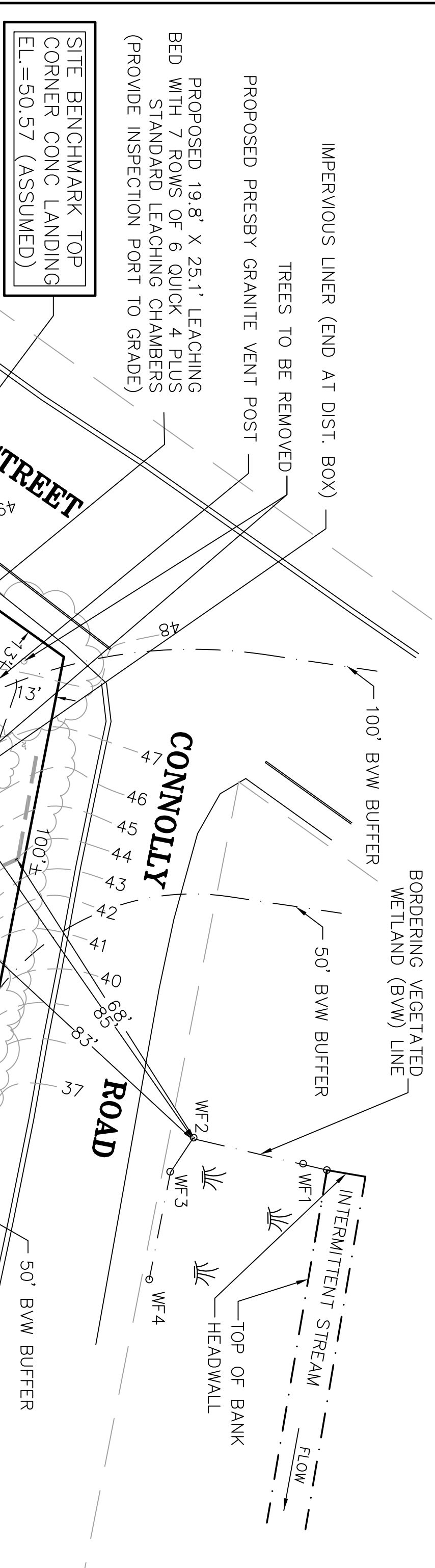
1. USE OF A GRAIN SIZE DISTRIBUTION ANALYSIS ACCORDANCE WITH DEP GUIDANCE POLICY #BRP/DWM/PP-P-000-1 TO ESTABLISH DESIGN LOADING RATE.



1,500 GALLON 2-COMPARTMENT PRECAST SEPTIC TANK
NOT TO SCALE

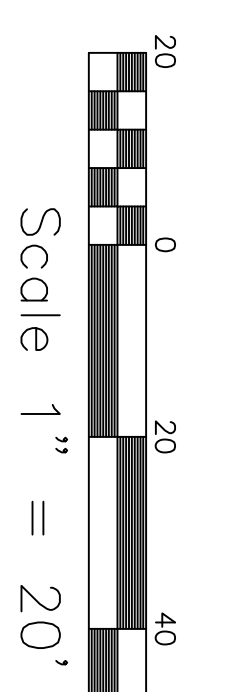


PLAN VIEW



SITE BENCHMARK TOP CORNER CONC LANDING
EL.=50.57 (ASSUMED)

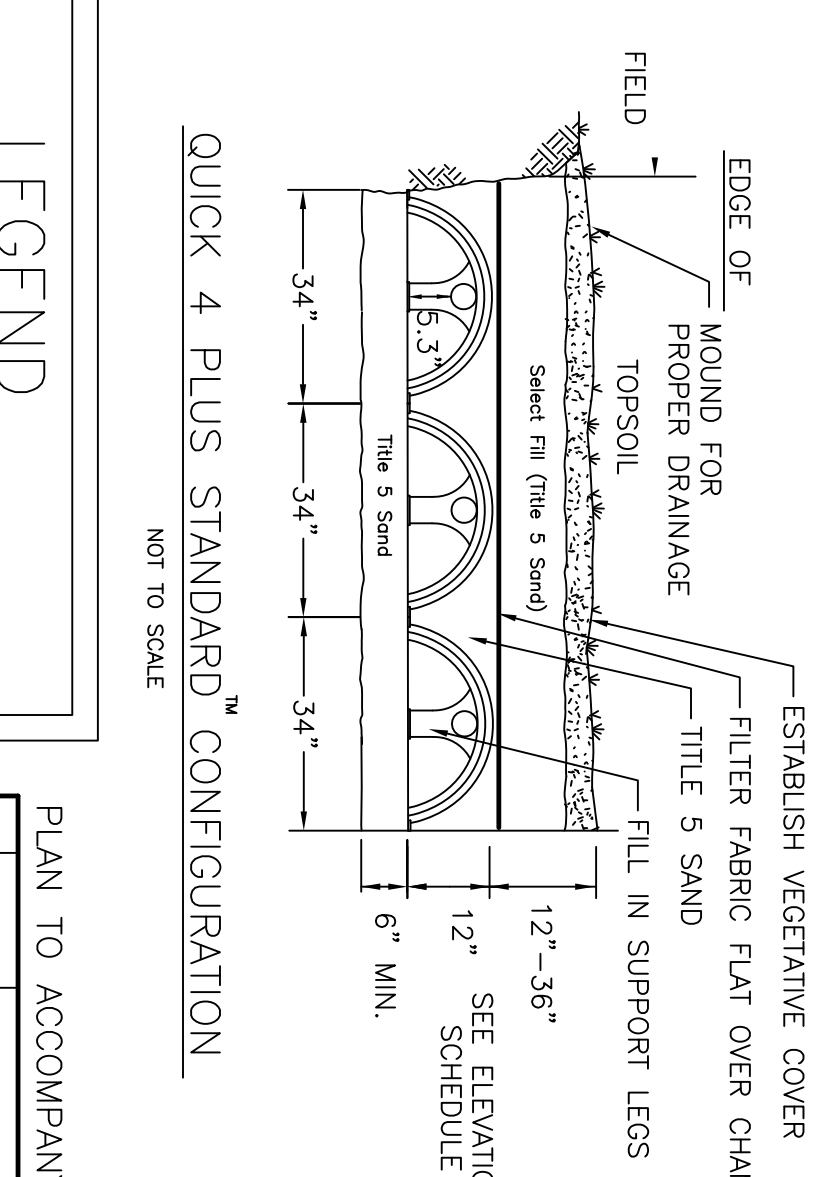
IMPERVIOUS LINER (END AT DIST. BOX)
TREES TO BE REMOVED
PROPOSED PRESBY GRANITE VENT POST
PROPOSED 19.8' X 25.1' LEACHING BED WITH 7 ROWS OF 6 QUICK 4 PLUS STANDARD LEACHING CHAMBERS (PROVIDE INSPECTION PORT TO GRADE)



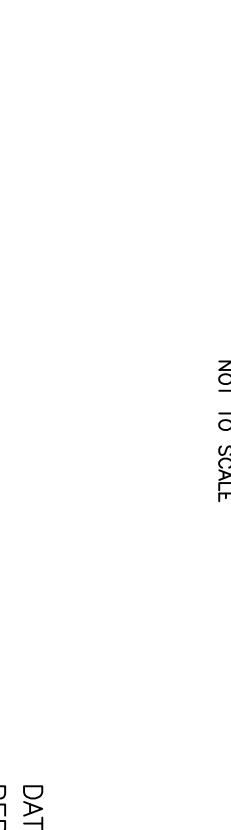
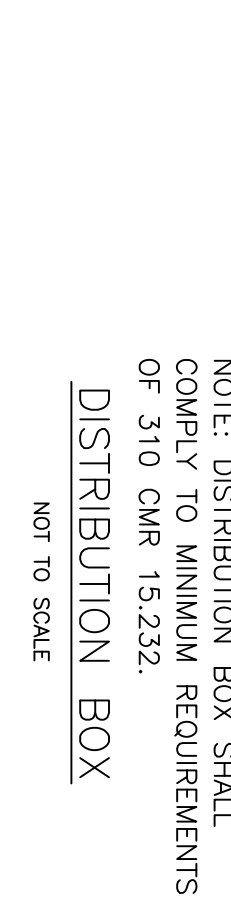
Scale 1" = 20'

SAW-CUT AND REMOVE TRENCH FOR 4" SCH. 80 SEWER LINE BACKFILL WITH CLEAN MATERIAL AND REPAIR AND SEAL ASPHALT TO MATCH EXISTING THICKNESS.
PROVIDE 2" SWEEP WITH CLEANOUT TO GRADE AT BEND.
(ALL TO BE SCH. 80 PVC PIPE)

PUMP AND FILL EXISTING LEACHING PITS



PLAN TO ACCOMPANY A CONSERVATION FILING



SOIL DATA:

TP	DEPTH	ELEV.	SOIL	SOIL	SOIL
			HORIZ.	COLOR	
TP-1	0	47.00	Bw	10R8 5/6	SANDY LOAM
TP-2	0	45.50	Bw	10R8 5/6	SANDY LOAM
TP-3	0	47.50	Bw	10R8 5/6	SANDY LOAM

PERCOLATION RATE = <2 MIN./INCH
PERCOLATION RATE DETERMINED FROM A SEVE ANALYSES PERFORMED ON SOIL SAMPLES COLLECTED FROM LAYER C AT TEST PIT TP-3 TESTS REVEALED SOIL IS A CLASS 1 SAND DESIGN LOADING RATE SELECTED FOR CLASS 1 SOILS IN ACCORDANCE WITH DEP GUIDANCE POLICY #BRP/DWM/PP-P-000-1. DESIGN LOADING RATE = 0.66 GPD/SF (440 GPD)

LEACHING AREA REQ'D = 0.66 GPD/SF = 666 SF
USE 19.8' X 25.1' LEACHING BED WITH 7 ROWS OF 6 INFLTRATOR QUICK 4 PLUS LEACHING CHAMBERS WITH END CAPS = 175.7 L.F.
LEACHING AREA PROVIDED: 175.7 L.F. X 4.73 S.F./L.F. = 831 SF > 666 SF REQUIRED DAILY FLOW CAPACITY.
831 SF X 0.66 GPD/SF = 548 GPD > 440 GPD REQ'D

NOTE: LAYERS FILL/A, B, AND C TO BE REMOVED TO A DEPTH ELEVATION 39.0 AND REPLACED WITH CLEAN FILL IN ACCORDANCE WITH 310 CMR 15.255(3). UNSATURATED SOIL TO BE REMOVED TO A DISTANCE OF 5'-0" BEYOND THE LIMITS OF THE SOIL ABSORPTION SYSTEM.

ESTIMATED SEASONAL HIGH GROUNDWATER ELEV. = 39.50 (TP-3 NEAR TANK AND SAS)
DESIGN PERC RATE DETERMINED FROM SEVE ANALYSIS FROM TP-3 C LAYER

PLAN AND DETAILS
SUBSURFACE SEWAGE DISPOSAL SYSTEM UPGRADE
470 EAST MAIN STREET
AVON, MA

CLIENT: WILLIAM WEBBER
47 ROCKVILLE AVE EAST FALMOUTH 02536

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DATE: JUNE 9, 2021
PERFORMED BY: GEORGE R. COLLINS, P.E.
WITNESSED BY: KATHLEEN WALDRON, AVON BOH

SCALE: AS SHOWN
DATE: 6-21-21
DRAWN BY: GRC
DESIGNED BY: FJL
CHECKED BY: GRC
APPROVED BY: GRC

DRAWING NO.: 21-17-3336
PROJECT NO.: 21-17-3336