LEGEND:

EXISTING / PROPOSED

EXISTING		PROPOSED
100	CONTOURS	100
100X0	SPOT SHOTS	100 FG
	APPROX. PROPERTY LINES	
—W—	WATER SERVICE LINE & WELL	
	STONE WALL	
	LIMIT BORDERING VEGETATED WETLAND	
100	LIMIT OF 100-FOOT BUFFER ZONE	
50	LIMIT OF 50-FOOT BUFFER ZONE	
25	LIMIT OF 25-FOOT NO DISTURB ZONE	
	SILTATION BARRIER	
T-1	TEST PIT & NO.	
P-1	PERC TEST	
	BUILDING	
	EDGE OF PAVEMENT	
	FORCE MAIN	
	DECIDUOUS TREE	
	CONIFEROUS TREE	
	DIRECTION OF SURFACE FLOW	
	TO BE ABANDONED	TBA
	TO BE REMOVED	TBR

VARIANCES/WAIVERS:

REGULATIONS:	REQUIRED:	PROVIDED:
310CMR15.227(5)	LOCATE SEPTIC TANK AND PUMP CHAMBER INLET & OUTLET INVERTS, 12" ABOVE ESHGW	TANK INVERTS BELOW ESHGW INSTALLED W/ RUBBER BOOTS.
310CMR15.104(4)	PERCOLATION TEST REQUIRED IN LEACH AREA	SOIL ANALYSIS (PENNSYLVANIA STATE UNIVERSITY SOILS LAB)

SOILS INFORMATION:

SOIL EVALUATOR: JAMES SCANLAN, P.E. (SE#2159 – APRIL 1995)
TOWN WITNESS: KENDELL LONGO
DATE: 11/18/21

SOIL PERCOLATION RATE:
SOIL ANALYSIS BY PENN STATE SOILS LAB
(2) SAMPLES DETERMINED TO BE SANDY LOAM (CLASS II)

SOIL ELEVATIONS:

TESTPIT	T-1	T-2
GRADE	100.9	101.5
E.S.H.G.W.	99.4	100.0
OBS. G.W.	98.9	99.5
BOTTOM PIT	94.6	95.3

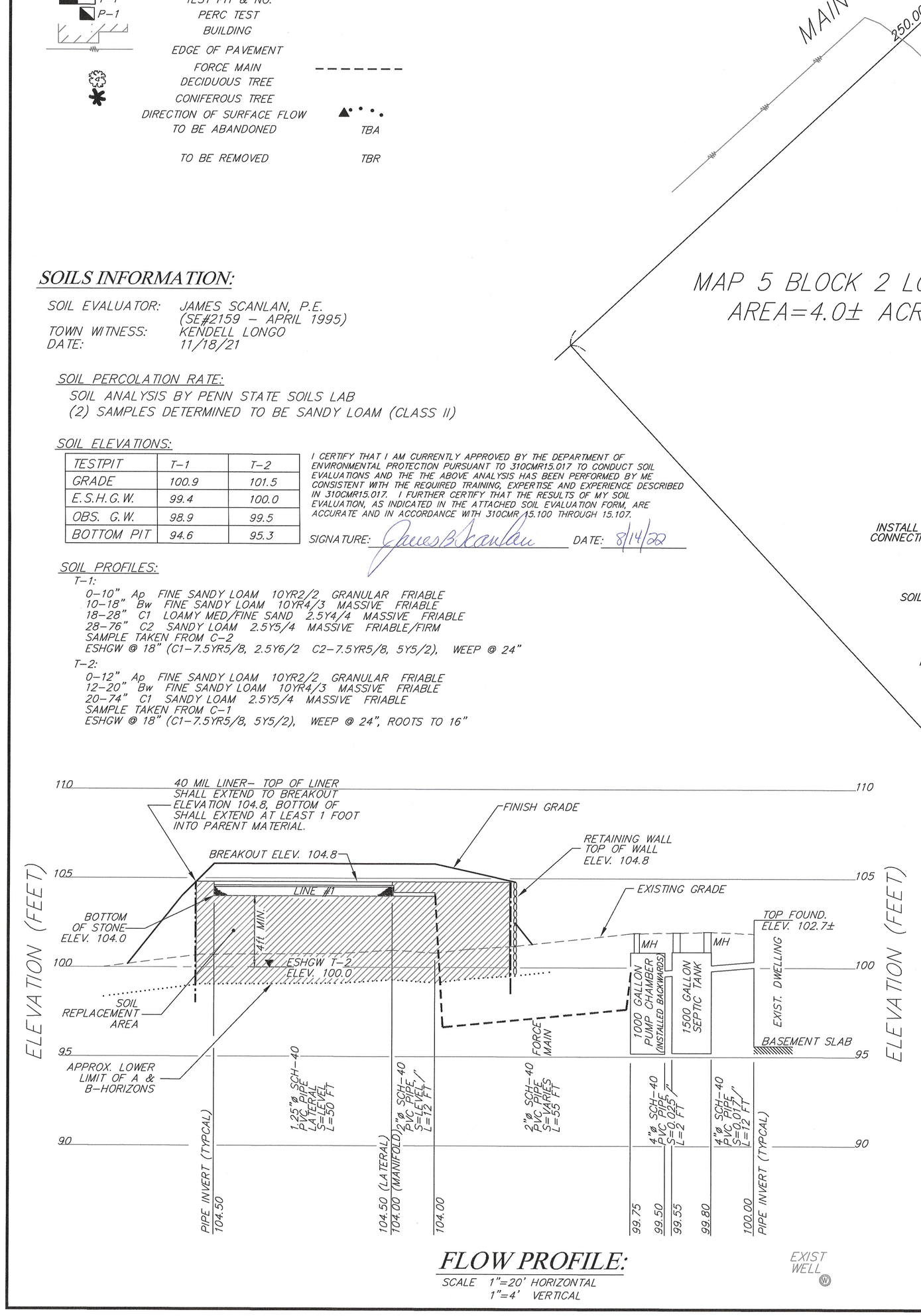
I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310CMR15.017 TO CONDUCT SOIL EVALUATIONS AND THE THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310CMR15.017. I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, AS INDICATED IN THE ATTACHED SOIL EVALUATION FORM, ARE ACCURATE AND IN ACCORDANCE WITH 310CMR 15.100 THROUGH 15.107.

SIGNATURE: James B Scanlan DATE: 8/14/22

SOIL PROFILES:

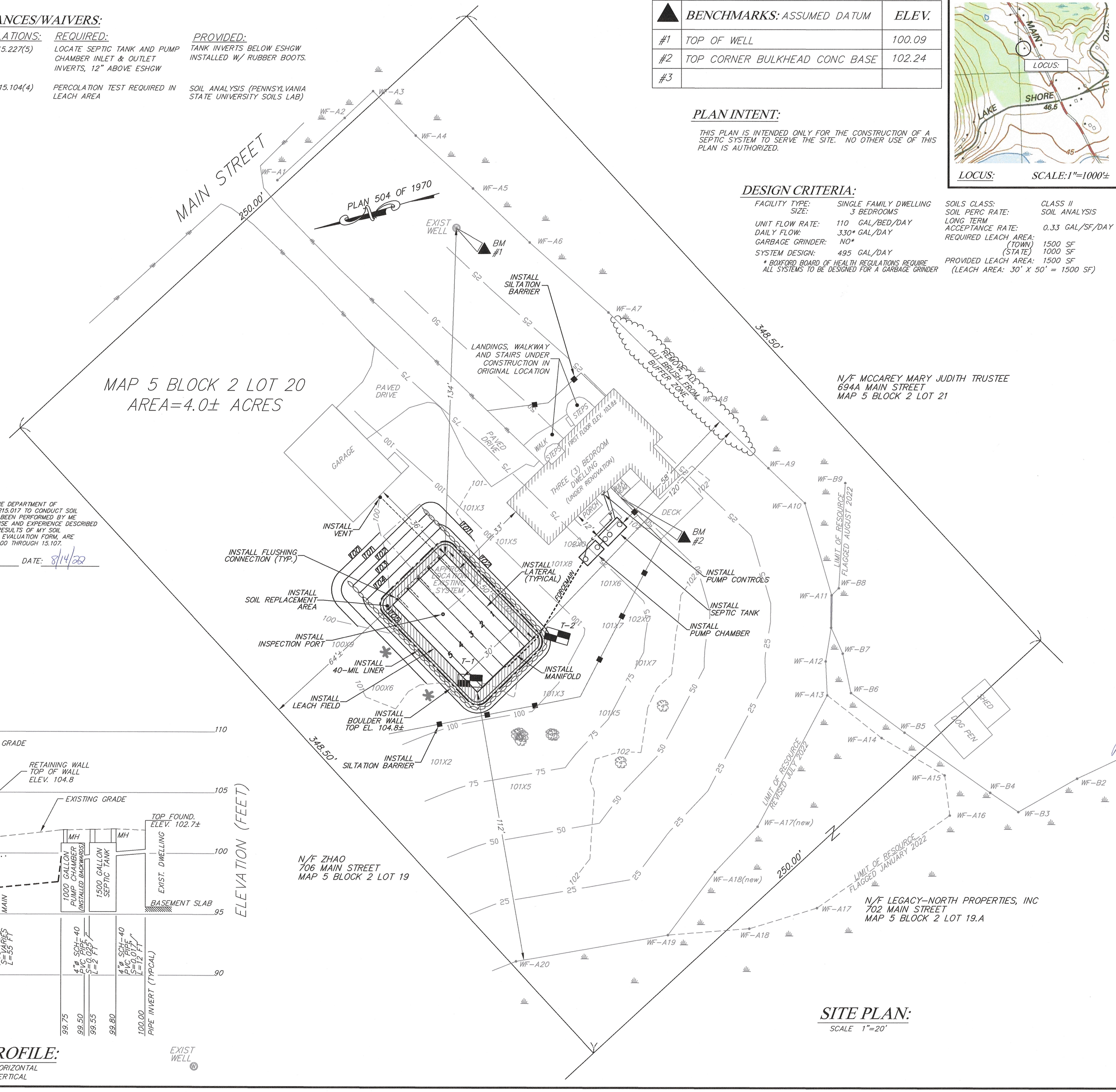
T-1:
0–10" Ap FINE SANDY LOAM 10YR2/2 GRANULAR FRIABLE
10–18" Bw FINE SANDY LOAM 10YR4/3 MASSIVE FRIABLE
18–28" C1 LOAMY MED/FINE SAND 2.5Y4/4 MASSIVE FRIABLE
28–75" C2 SANDY LOAM 2.5Y5/4 MASSIVE FRIABLE/FIRM
SAMPLE TAKEN FROM C-2
ESHGW @ 18" (C1–7.5YR5/8, 2.5Y6/2 C2–7.5YR5/8, 5Y5/2), WEEP @ 24"

T-2:
0–12" Ap FINE SANDY LOAM 10YR2/2 GRANULAR FRIABLE
12–20" Bw FINE SANDY LOAM 10YR4/3 MASSIVE FRIABLE
20–74" C1 SANDY LOAM 2.5Y5/4 MASSIVE FRIABLE
SAMPLE TAKEN FROM C-1
ESHGW @ 18" (C1–7.5YR5/8, 5Y5/2), WEEP @ 24", ROOTS TO 16"



FLOW PROFILE:

SCALE 1"=20' HORIZONTAL
1"=4' VERTICAL



SITE PLAN:

SCALE 1"=20'

BENCHMARKS: ASSUMED DATUM		ELEV.
#1	TOP OF WELL	100.09
#2	TOP CORNER BULKHEAD CONC BASE	102.24
#3		

PLAN INTENT:

THIS PLAN IS INTENDED ONLY FOR THE CONSTRUCTION OF A SEPTIC SYSTEM TO SERVE THE SITE. NO OTHER USE OF THIS PLAN IS AUTHORIZED.

LOCUS: SCALE:1"=1000'±

DESIGN CRITERIA:

FACILITY TYPE:	SINGLE FAMILY DWELLING	SOILS CLASS:	CLASS II
SIZE:	3 BEDROOMS	SOIL PERC RATE:	SOIL ANALYSIS
UNIT FLOW RATE:	110 GAL/BED/DAY	LONG TERM ACCEPTANCE RATE:	0.33 GAL/SF/DAY
DAILY FLOW:	330* GAL/DAY	REQUIRED LEACH AREA: (TOWN)	1500 SF
GARBAGE GRINDER:	NO*	(STATE)	1000 SF
SYSTEM DESIGN:	495 GAL/DAY	PROVIDED LEACH AREA:	1500 SF

* BOXFORD BOARD OF HEALTH REGULATIONS REQUIRE ALL SYSTEMS TO BE DESIGNED FOR A GARBAGE GRINDER

(LEACH AREA: 30' X 50' = 1500 SF)

SUBSURFACE SEWAGE DISPOSAL SYSTEM UPGRADE

702 MAIN STREET
BOXFORD, MA

REGISTRY INFORMATION:
DEED:
BOOK NO.: 40272
PAGE NO.: 155

ASSESSORS INFORMATION:
MAP: 5
BLOCK: 2
LOT: 20

PREPARED FOR:
LEGACY-NORTH PROPERTIES INC
4 ASHBURY LANE
ANDOVER MA 01810

SCANLAN ENGINEERING LLC
PO BOX 906-GEORGETOWN, MA 01833
PHONE: (978) 372-3440
FAX: (978) 891-3888
EMAIL: info@scanlanengineering.com
WEB: www.scanlanengineering.com

COMMONWEALTH OF MASSACHUSETTS
JAMES B SCANLAN
CIVIL
No. 46289
REGISTERED PROFESSIONAL ENGINEER
James B Scanlan 8/14/22

#	BY	DATE	REVISIONS TO PLANS
3	JBS	8/14/22	ADD BARN & B FLAGS
2	JBS	8/11/22	CONSERVATION REVISIONS
1	JBS	7/18/22	CONSERVATION FILING

DATE: JANUARY 26, 2022
DESIGN BY: JBS
DRAWN BY: JBS

PLAN & FLOW PROFILE

SHEET 1 OF 2 | SCALE: 1"= 20'

PROJECT # 1109