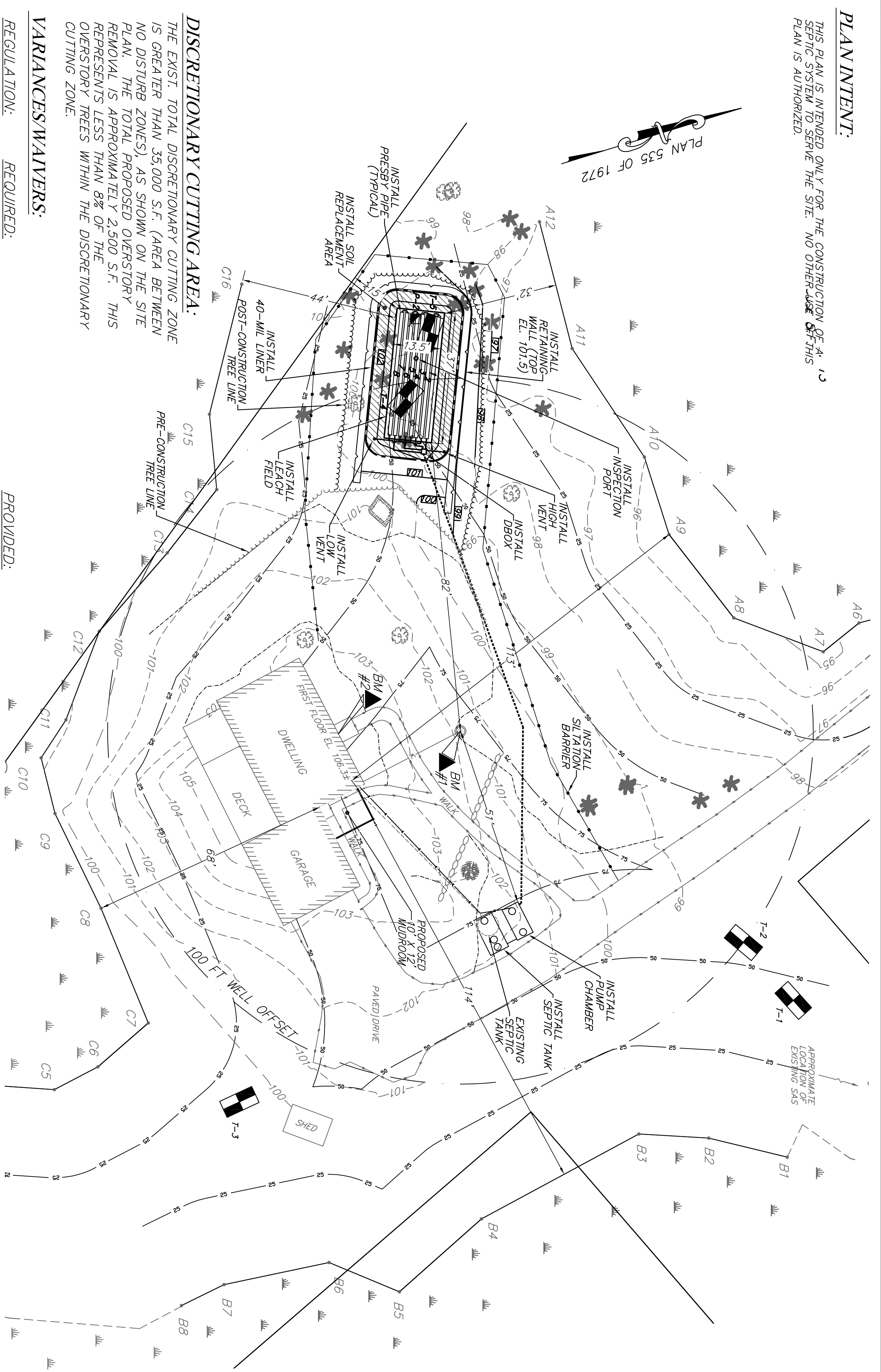
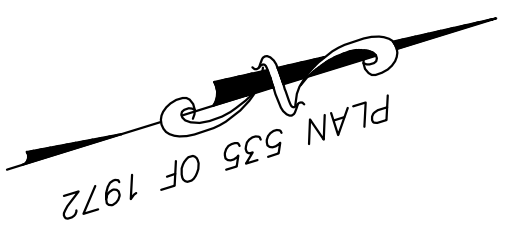


PLAN INTENT:
THIS PLAN IS INTENDED ONLY FOR THE CONSTRUCTION OF A SEWAGE DISPOSAL SYSTEM. THE ENGINEER HAS CONDUCTED A VISUAL INSPECTION OF THE SITE. NO OTHER SURVEY DATA OR PLAN IS AUTHORIZED.



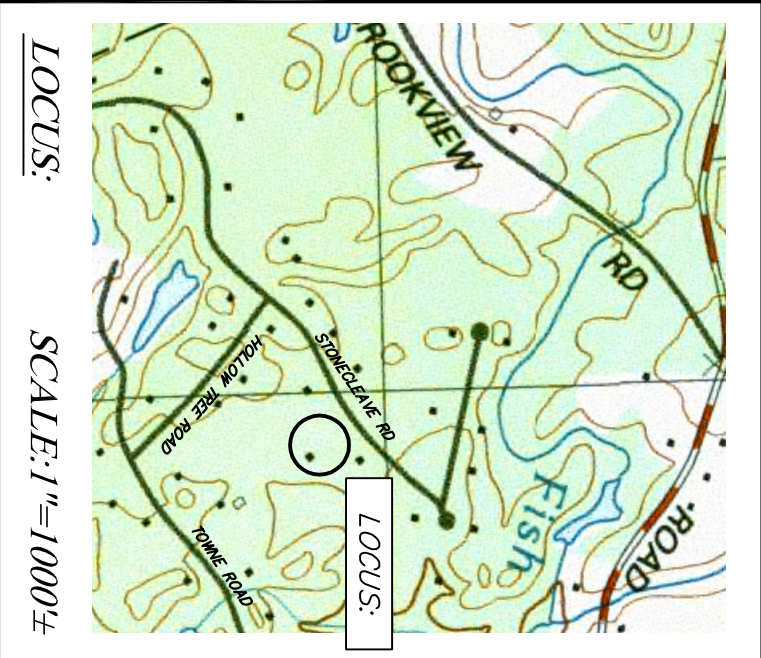
BENCHMARKS: ASSUMED DATUM	ELEV.
#1 TOP OF WELL	102.60
#2 FRONT DOOR THRESHOLD	106.35
#3	

SOILS INFORMATION:		
SOIL EVALUATOR: JAMES SCANLAN, P.E. (SE#2159 - APRIL 1995) KENDALL LONGO DATE: 10/9/2018 & 10/25/2018		
I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310CMR.017 TO CONDUCT SOIL EVALUATIONS AND THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME OR A CONSULTANT WITH THE REQUIRED TRAINING AND QUALIFICATIONS. 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: _____	DATE: _____	

SOIL PERCOLATION RATE:		
P-1: DEPTH TO 12" = 42"	SOIL PERC RATE= PERC HOLE 100 CLOSE TO DEEP HOLE	
P-2: DEPTH TO 12" = 38"	SOIL PERC RATE= 19 MIN/IN	

SOIL ELEVATIONS:		
TEST PIT	T-4	T-5
GRADE	98.6	98.6
E.S.H.G.W.	93.9	93.6
OBS. G.W.	93.1	92.4
BOTTOM PIT	92.6	92.1

SOIL PROFILES:		
T-1: (10/9/2018)	0-16" FILL	10YR3/2
	16-20" Ab	10YR3/2
	20-28" Bw	10YR3/6
	28-64" A132" (BEDROCK 7.5YR5/8)	2.5Y4/4
	ESHOW @ 30" (END HOLE)	
	KEEP @ 80" STANDING @ 78" LEDGE COMES UP TO 3 FT. IN CENTER OF DEEP HOLE	
T-2: (10/9/2018)	LEDGE @ 3 FT	
T-3: (10/9/2018)	0-12" Ab	10YR3/3
	12-18" Bw	10YR3/6
	18-50" Bw	2.5Y4/4
	ESHOW @ 41.50"	
	ESHOW @ 22" (16L/16/10Y, 5YR/1, & 7.5YR5/8)	
T-4: (10/9/2018)	0-13" Ab	10YR3/2
	13-22" Bw	10YR3/6
	22-70" Bw	2.5Y4/4
	ESHOW @ 30" (5Y6/2 & 7.5YR5/8)	
	STANDING @ 64"	
T-5: (10/25/2018)	0-7" Ab	10YR3/2
	7-15" Bw	10YR3/6
	15-78" Bw	5Y5/4
	ESHOW @ 36" (5Y6/2 & 7.5YR5/8)	
	STANDING @ 74" ROOTS TO 44"	



DESIGN CRITERIA:

FACILITY TYPE:	SIZE:	SINGLE FAMILY DWELLING
UNIT FLOW RATE:	110 GAL/BED/DAY	
DAILY FLOW:	110 GAL/DAY	
GARAGE GRINDER:	NO (SEE VARIANCES)	
SYSTEM DESIGN:	110 GAL/DAY	

SITE PLAN:

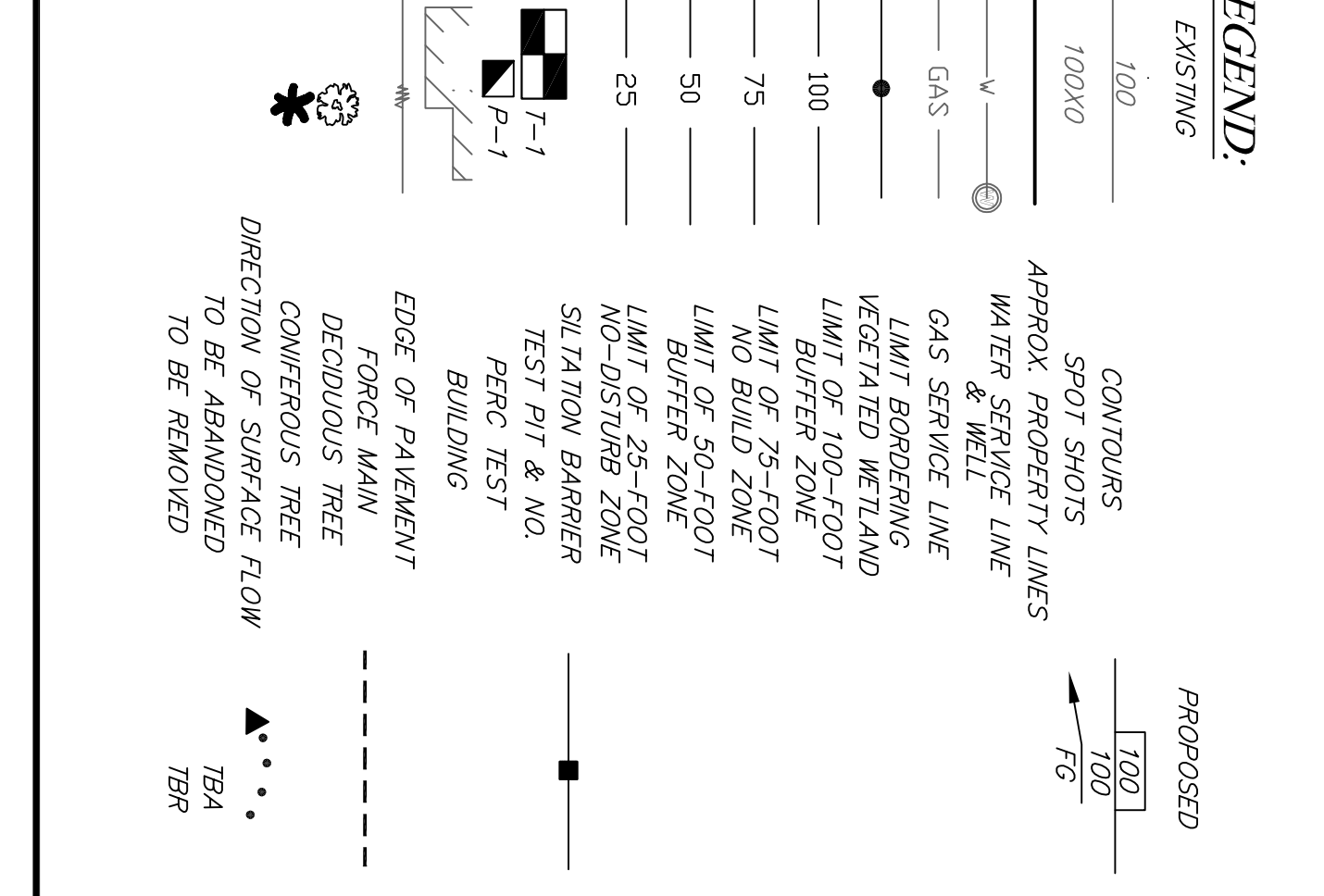
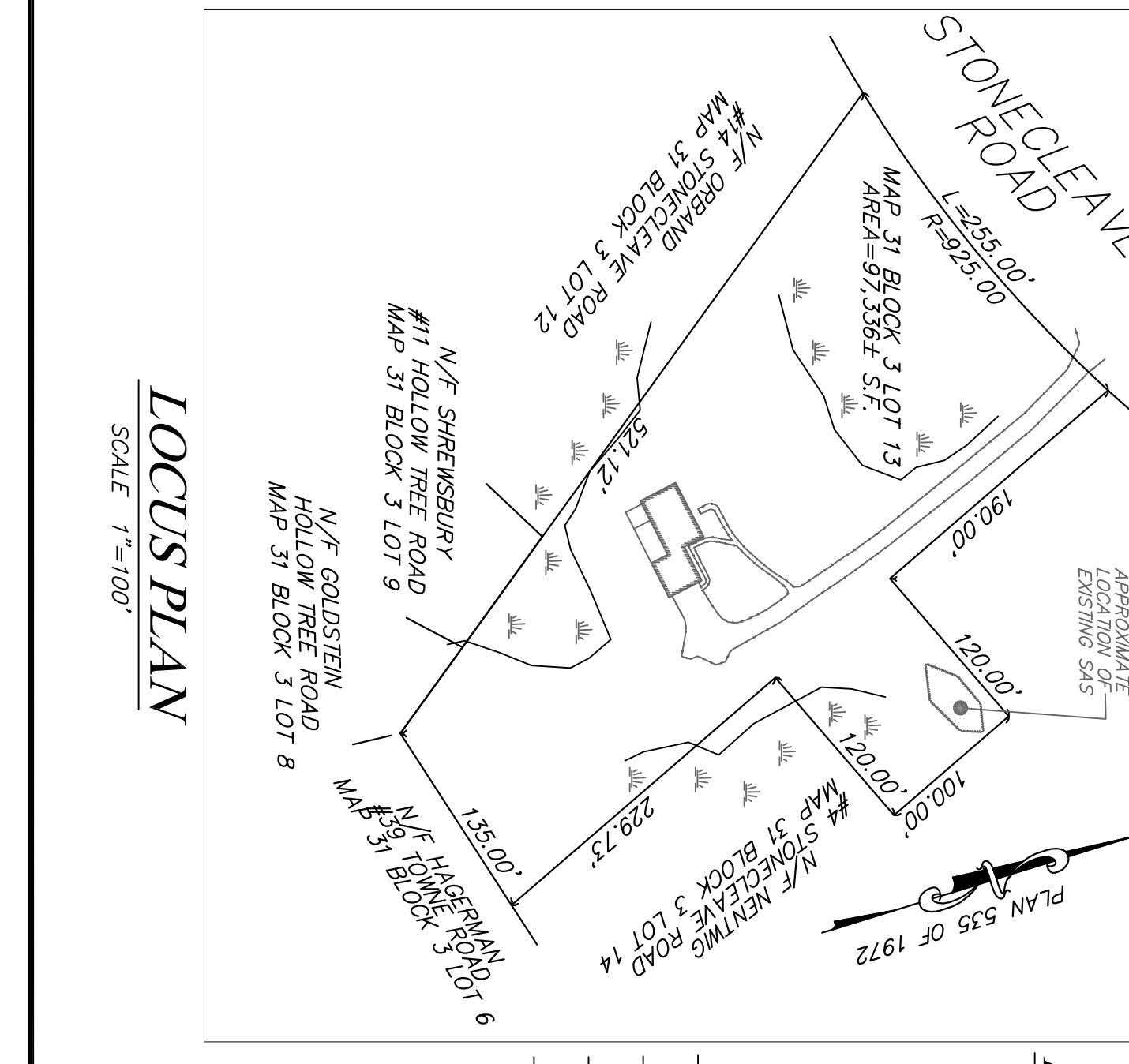
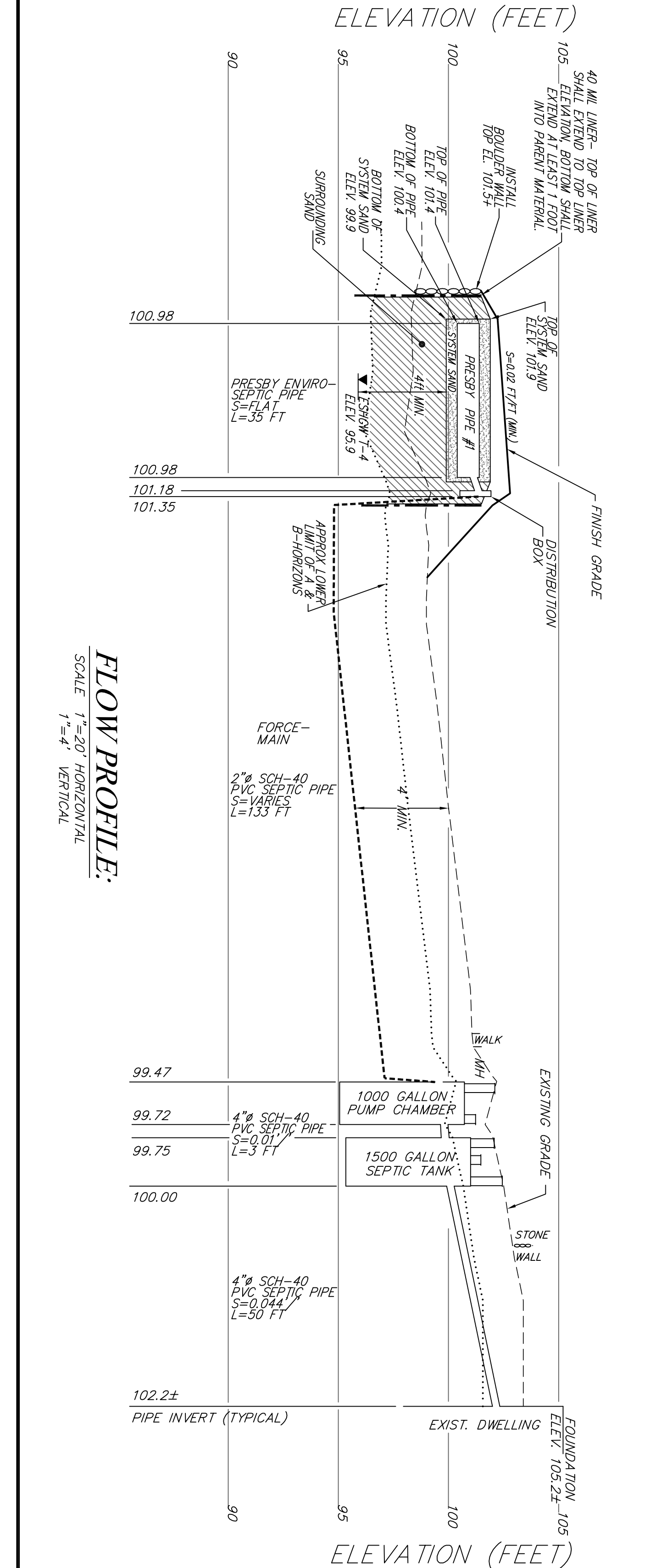
REGULATION:	REQUIRED:	PROVIDED:
BOXFORD REG 201-9(A)	50' MIN SEPARATION BETWEEN WETLAND AND ALL SEPTIC COMPONENTS	32 FEET
BOXFORD REG 201-9(B)	100' MIN SEPARATION BETWEEN WETLAND AND SAS	32 FEET
BOXFORD REG 201-10	SYSTEMS TO BE DESIGNED FOR A GARAGE GRINDER	SYSTEM DESIGNED FOR NO GRINDER (110 GAL/DAY/BDRM)
310CMR15.211(1)	SETBACK BETWEEN SAS AND WETLANDS	32 FEET
310CMR15.211(1)	50' MIN SETBACK BETWEEN SAS AND WELLS	82 FEET
310CMR15.211(1)	100' MIN	

DISCRETIONARY CUTTING AREA:

THE EXIST. TOTAL DISCRETIONARY CUTTING ZONE IS GREATER THAN 35,000 S.F. (AREA BETWEEN NO DISTURB ZONES), AS SHOWN ON THE SITE PLAN. THE TOTAL PROPOSED OVERSTORY REMOVAL IS APPROXIMATELY 2,500 S.F. THIS REPRESENTS LESS THAN 8% OF THE OVERSTORY TREES WITHIN THE DISCRETIONARY CUTTING ZONE.

VARIANCES/WAIVERS:

PROVIDED: 32 FEET SETBACK BETWEEN SAS AND WELLS



#	BY	DATE	REVISIONS TO PLANS
1	JBS	FEBRUARY 1, 2019	DESIGN BY
2	JBS	JAN 2020	DRAWN BY

PLAN & FLOW PROFILE

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WEB: www.scanlanengineering.com

PREPARED FOR:
ROBERT & BEVERLY SCHWARTZ
6 STONECLEAVE ROAD
BOXFORD, MA 01921

ASSASSORS INFORMATION:
MAP: 31
BLOCK: 3
LOT: 13

DEED:
BOOK NO.: 30425
PAGE NO.: 222

REGISTRY INFORMATION:
6 STONECLEAVE ROAD
BOXFORD, MA

SUBSURFACE SEWAGE DISPOSAL SYSTEM UPGRADE

SCALE: 1"=20'

SHEET 1 OF 2

PROJECT # 0913