

"SOIL LOC"			
EL 649.00'	D.T.H. "1"	EL 649.00'	D.T.H. "2"
EL 648.00'	0'-12" A SL 10YR 3/2	EL 648.33'	0'-8" A SL 10YR 3/2
EL 647.00'	12'-24" B SL 10YR 5/6	EL 647.00'	8'-24" B SL 10YR 5/6
		EL 643.00'	24'-72" C1 SL W/ 20% GRAVEL 25Y 6/6
EL 642.33'	24'-80" C2 SL 25Y 6/4	EL 641.00'	72'-96" C2 SL W/ 20% GRAVEL 25Y 5/4

MOTTLES @ 36"  
EST. GW. @ 36"

MOTTLES @ 36"  
EST. GW. @ 36"

SOIL EVALUATOR: MARGARET BACON SE 0257

I CERTIFY THAT I HAVE PASSED THE EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.018 (2).

OTHER PERSONS ON SITE AT TESTING WHP TRUCKING (BACKHOE)	
PERCOLATION RATE	9 MPI
DATE DEEP HOLE TEST	11/11/2022
DATE PERCOLATION TEST	11/11/2022
INSPECTOR	STEVE DONATELLI
TESTING APPLICANT	GORDEN WHITTEN

### CONSTRUCTION NOTES

- EXCAVATE ALL IMPERVIOUS MATERIAL INCLUDING TOP & SUB SOIL; SILT; CLAY; ETC. TO PERVIOUS MATERIAL IN TRENCH AREA AND IN FIVE FOOT (5') GRAVEL AREA.
- THE GRAVEL SHALL BE PLACED ACCORDING TO SEC. 15.255 SUB-SECTION 3 TO 6.
- ELEVATION OF GRAVEL 649.50 - 651.50
- TRENCHES TO BE 11.33' O.C.
- BOTTOM OF TRENCHES TO BE LEVEL FOR ENTIRE LENGTH OF SYSTEM 650.17'
- ALL OUTLET PIPES FROM THE DISTRIBUTION BOX TO BE LEVEL FOR A MINIMUM OF ONE PIPE LENGTH OR 2 FEET.
- NO SURFACE, SUBSURFACE OR OPEN DRAINS THAT INTERCEPT GROUNDWATER WITHIN 25 FEET OF THE SEPTIC TANK OR 50 FEET FROM THE LEACHING SYSTEM.
- ENGINEER TO INSPECT BOTTOM EXCAVATION OF LEACHING AREA PRIOR TO GRAVEL PLACEMENT
- HYDRAULIC CEMENT TO BE USED TO SEAL CONNECTIONS AT THE FOUNDATION, SEPTIC TANK, DIST. BOX, & ALL UNUSED OUTLETS.
- LOAM & SEED ALL DISTURBED AREAS. (ENVIRONMENTAL MATING ON SLOPES)
- CONSTRUCTION OF SEPTIC TANK, DOSING CHAMBER & DISTRIBUTION BOX SHALL CONFORM WITH 310 CMR 15.221 THROUGH 15.226

### ADDITIONAL NOTES

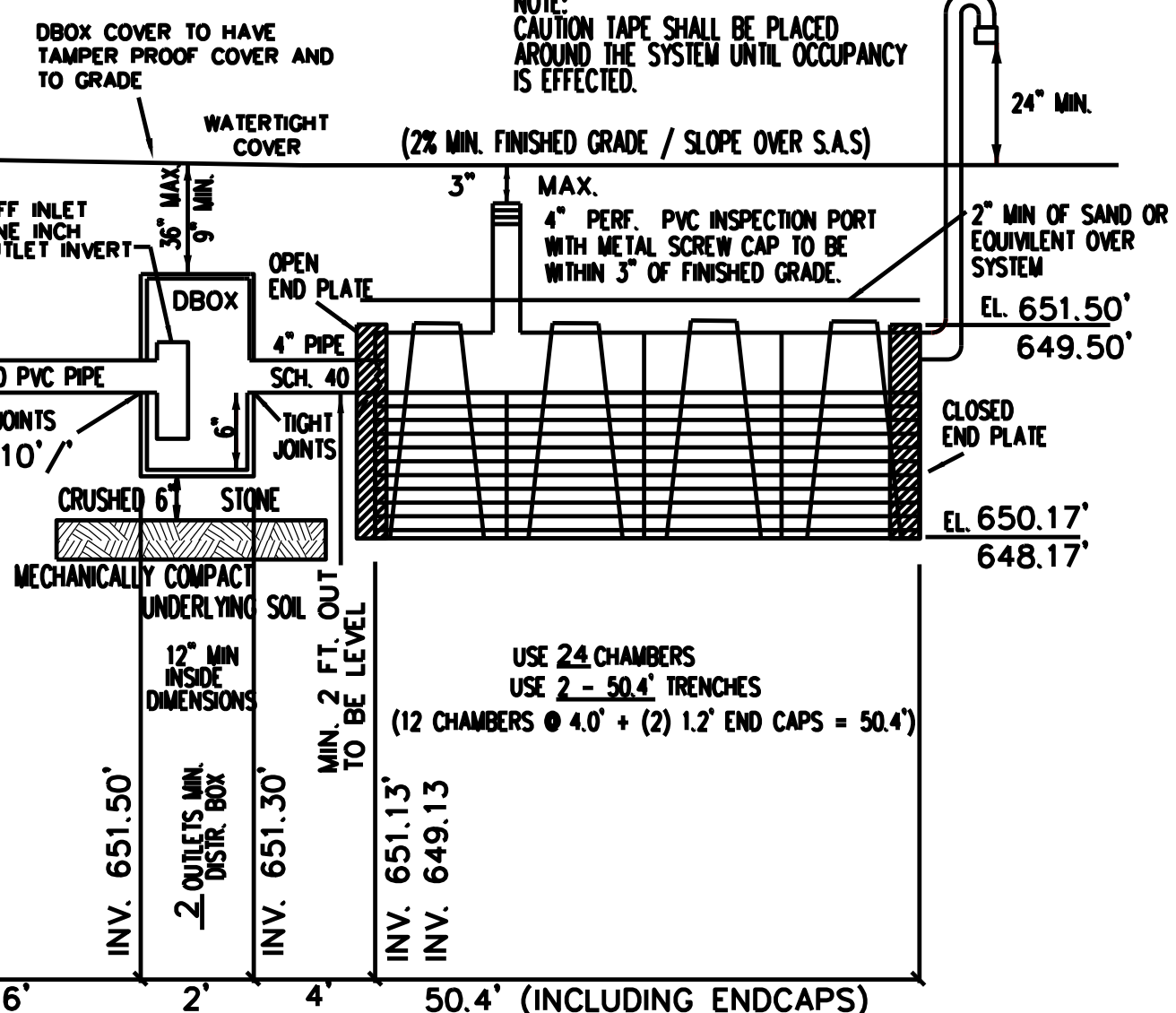
- TOWN PERMIT #22-46
- SEPTIC TANK TO BE PUMPED ANNUALLY
- WELL TO BE TESTED EVERY TWO YEARS
- PLAN ☐ IS, ☒ IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE. PANEL #25027C09B5E
- KNOWN EXCESSIVES ON LOT SITE: ☐ YES ☒ NO
- SYSTEM LOCATED IN NITROGEN SENSITIVE AREA AS DEFINED BY THE MA DEP OR TITLE V. ☐ YES ☒ NO

### DESIGN INFORMATION

- DESIGN RATE: 10 MPI
- SIDWALL AREA: 60 GPD/SF BOTTOM AREA: 60 GPD/SF
- 96' LINEAL FEET OF CHAMBER REQUIRED
- USE 96' LINEAL FEET 4.758 GPD / LF x 96 LF) = 457 GPD
- NO GARBAGE DISPOSAL UNITS ALLOWED
- 4 BEDROOM HOUSE; DAILY FLOW 440 GPD
- NO OTHER WELL WITHIN 150 FEET OF THE PROPOSED SYSTEM OTHER THAN SHOWN ON PLAN.
- WATER SOFTENERS SHALL NOT CONNECT TO SEPTIC TANK
- STORMWATER DRAINAGE ON SITE: ☐ YES ☒ NO
- POTABLE WATER SUPPLY (PUBLIC) ON SITE: YES ☐ NO
- LOT AREA ☐ IS, ☒ IS NOT TRIBUTARY TO A PUBLIC WATER SUPPLY AND IS NOT LOCATED IN A ZONE 2 OF PUBLIC WELLS.
- ALL KNOWN UTILITY LOCATIONS (APPROX.) ON SITE ARE SHOWN.
- CONTRACTOR SHALL NOTIFY DIG-SAFE AT 1-888-344-7233 PRIOR TO CONSTRUCTION.

NOTE: ALL SEWER STRUCTURES ARE ABOVE MAXIMUM GROUND WATER.  
YES ☒ ; NO ☐ SEE BUOYANCY CALCS

INLET & OUTLET TEES SHALL BE SET WITHIN 12" OF THE END WALLS AND EXTEND TO THE CL OF THE MANHOLES



PARTIAL LONGITUDINAL CROSS SECTION -- NO SCALE

NOTE:  
INSPECTIONS TO BE CONDUCTED ACCORDING TO THE REGULATIONS OF THE SUTTON BOARD OF HEALTH

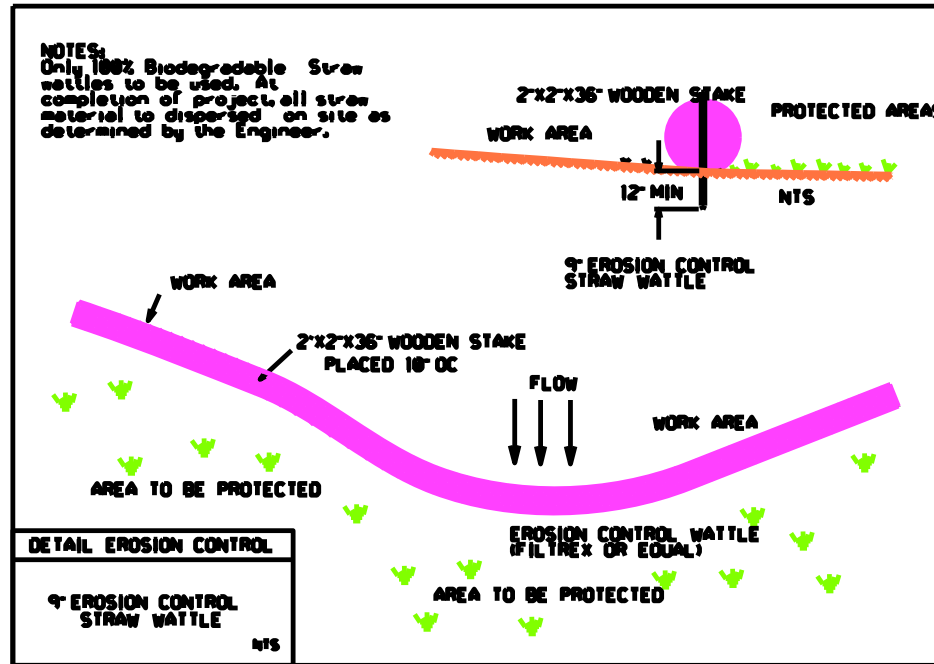
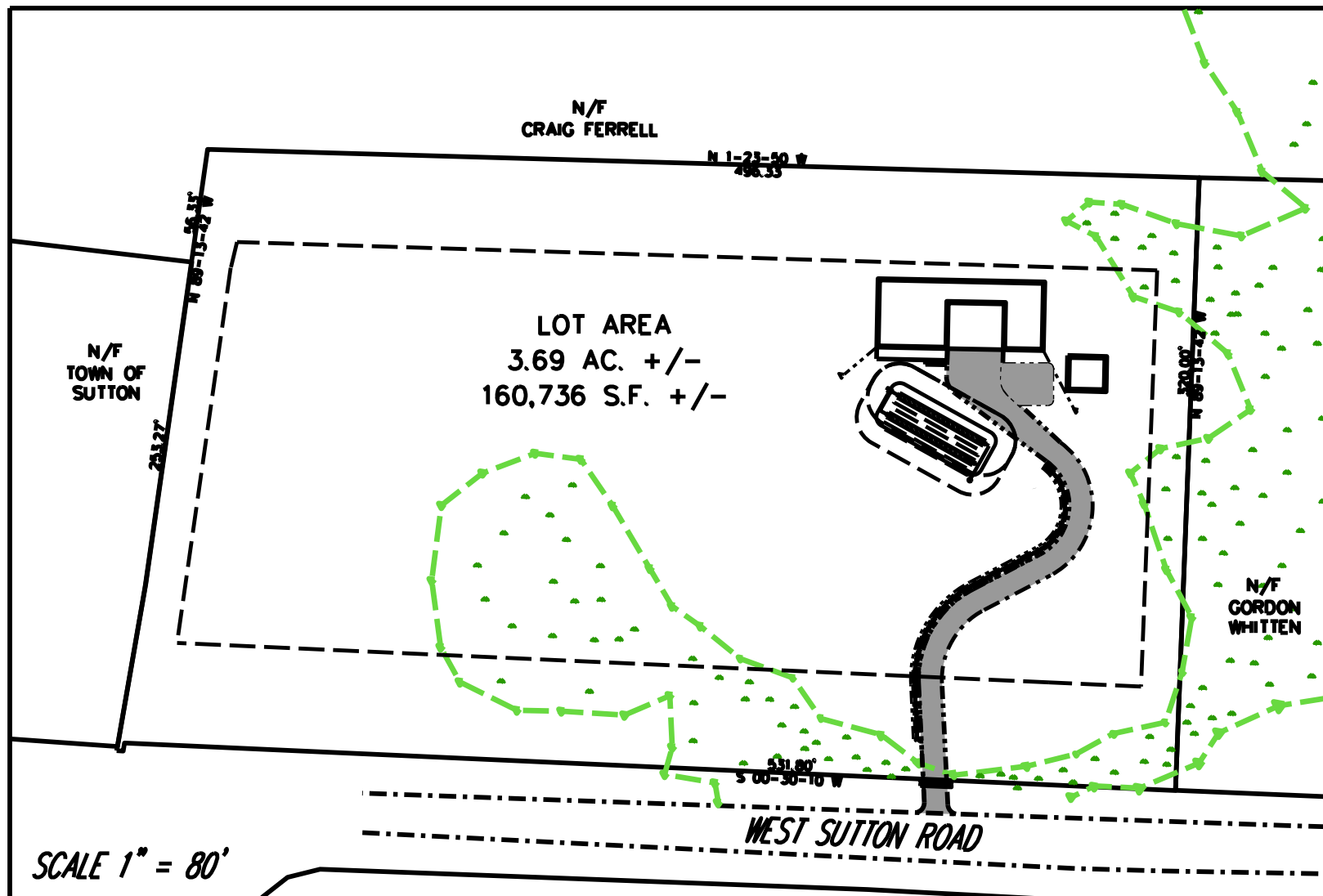
NOTE: CAUTION TAPE SHALL BE PLACED AROUND THE SYSTEM UNTIL OCCUPANCY IS EFFECTED.



QUICK 4  
HIGH CAPACITY  
INFILTRATOR CHAMBER  
SIZE 34"x53"x16"

### INSPECTION SCHEDULE

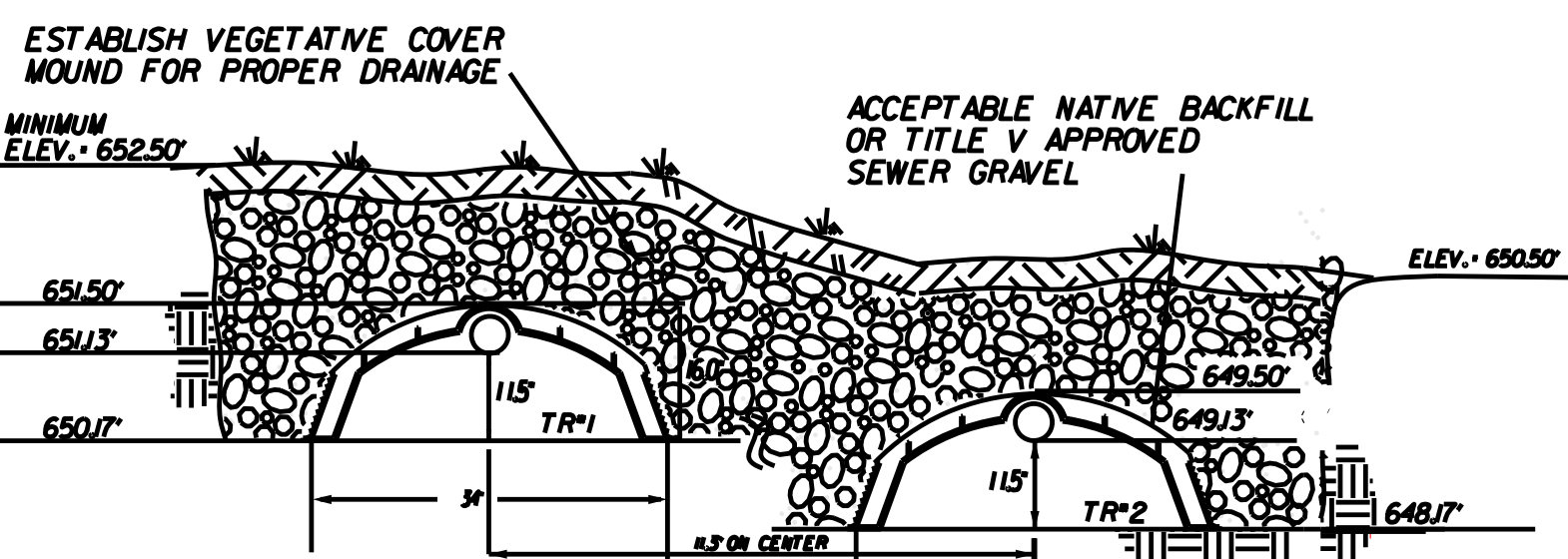
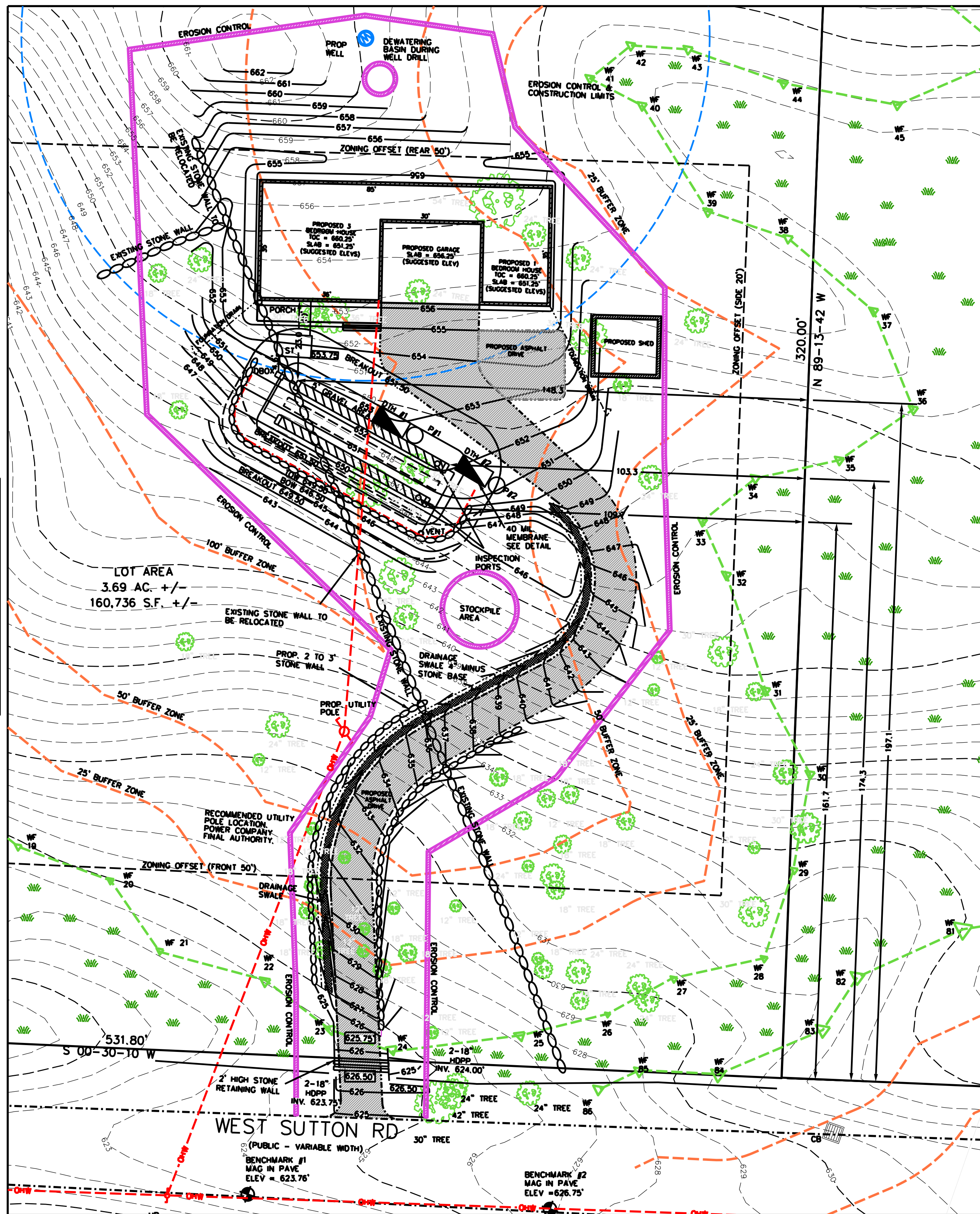
1. BOTTOM OF EXCAVATION PRIOR TO PLACEMENT OF FILL
2. AFTER COMPLETION OF THE SYSTEM PRIOR TO BACKFILLING
3. ROUGH AND/OR FINAL GRADING
4. SLOPE STABILIZATION



### LOADING CALCULATIONS

INFILTRATOR SYSTEMS' HIGH CAPACITY CHAMBER

CHAMBER DIM. 34" x 53" x 16"	
E.L.A. - EFFECTIVE LEACHING AREA PER CHAMBER (7.93 SF/LF)	
E.T.C. - EFFECTIVE TRENCH CAPACITY 7.93 SF/LFX.60GPD/SF=4.758 GPD/LF	
PER TITLE V USE MIN. OF 400 SF FOR CHAMBER BOTTOM AND SIDEWALL AREA	
E.T.C. = 7.93 SF/LFX.60 GPD/SF=4.758 GPD/LF	
E.L.A. = 7.93 SF/LF x 4.0 LF = 31.72 SF/CHAMBER	
440 GPD/60 GPD/SF) / (31.72 SF/CHMB.)	
= 23.12 CHAMBERS REQUIRED	
TRENCH LENGTH: USE 24 CHAMBERS x 4.0 LF/CHAMBER = 96 LF	
96'/2 TRENCHES= 48'/TRENCH + (2.4' FOR END CAPS)=50.4'	

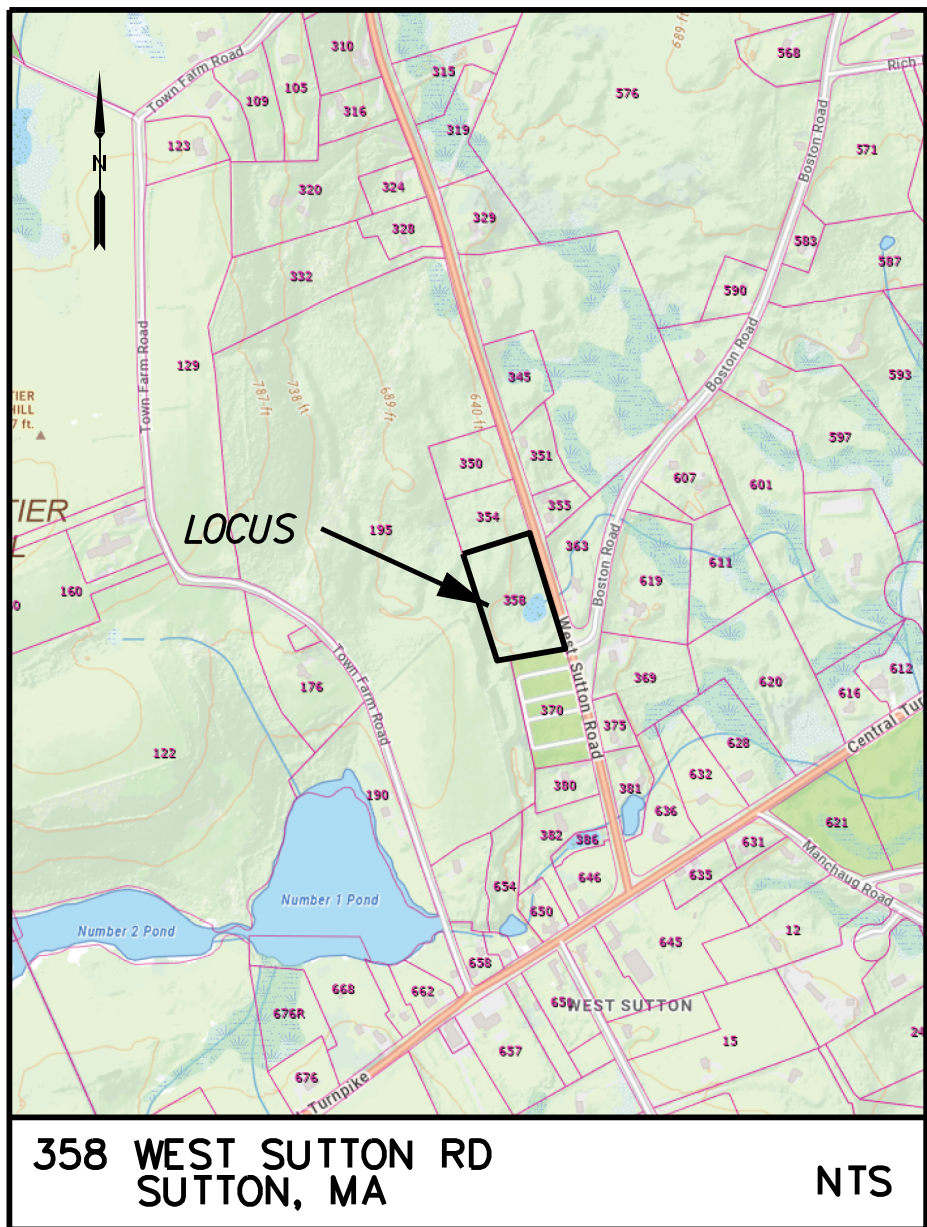


TRENCH DETAIL  
NOT TO SCALE



PLAN BOOK 172 PLAN 116  
DET'D BOOK 28664 PAGE 94  
OWNER BARBARA BABI  
ASSESSORS MAP # 35/12  
LOT # 1  
ZONE R1

REVISION #	DESCRIPTION	DATE



### NOTES:

INSTALLER SHALL INSTALL THE SYSTEM IN ACCORDANCE WITH INFILTRATOR SYSTEM INC.'S "DESIGN AND INSTALLATION MANUAL FOR INFILTRATOR CHAMBERS IN MASSACHUSETTS", AND THE CONDITIONS AS SET FORTH IN DEPARTMENT OF ENVIRONMENTAL PROTECTION'S CERTIFICATION FOR THE QUICK 4 SYSTEM ISSUED ON JUNE 12, 2015.

MAGNETIC TAPE TO BE PLACED OVER ALL SYSTEM COMPONENTS

TOPOGRAPHIC SURVEY WAS CONDUCTED IN DECEMBER, 2022.

WETLANDS WERE DELINEATED BY ROBERT MURPHY AND ASSOCIATES.

THIS PLAN TO BE USED FOR A SEPTIC DESIGN PLAN ONLY. THIS PLAN IS NOT TO BE USED TO ESTABLISH PROPERTY LINES. PROPERTY INFORMATION WAS COMPILED FROM RECORDED DEEDS AND PLANS.

CONTRACTOR TO NOTIFY ENGINEER IF FIELD CONDITIONS CHANGE OR ARE DIFFERENT THAN WHAT IS REPRESENTED ON THIS PLAN.

NEITHER THE ENGINEER OR BOARD OF HEALTH CAN GUARANTEE THE LONGEVITY OF THIS SYSTEM. PROPER USE AND MAINTENANCE ARE KEY IN ENSURING THE LONG TERM FUNCTIONALITY OF THIS SYSTEM.

IT IS RECOMMENDED THAT A WATER METER BE INSTALLED TO MONITOR WATER/WASTEWATER USAGE

PERMIT # 22-46  
NEW CONSTRUCTION

SEWAGE DISPOSAL LAYOUT

FOR

DAVID AND JENNIFER BRIGGS

358 WEST SUTTON ROAD

SUTTON, MA 01590

DATE: APRIL 7, 2023

SCALE: 1" = 20'



ENGINEERING LLC

SUITE 206  
10 RIVER ROAD  
UXBRIDGE, MA 01569

SITE PLANNING SEPTIC DESIGN WETLANDS

PROJ# S2221.00CN