

MOTTLES @ 60"
STANDING GW @ 80"
EST. GW @ 60"

7 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, EXPERTISE,
AND EXPERIENCE DESCRIBED IN 30 CFR 15.018 (2):

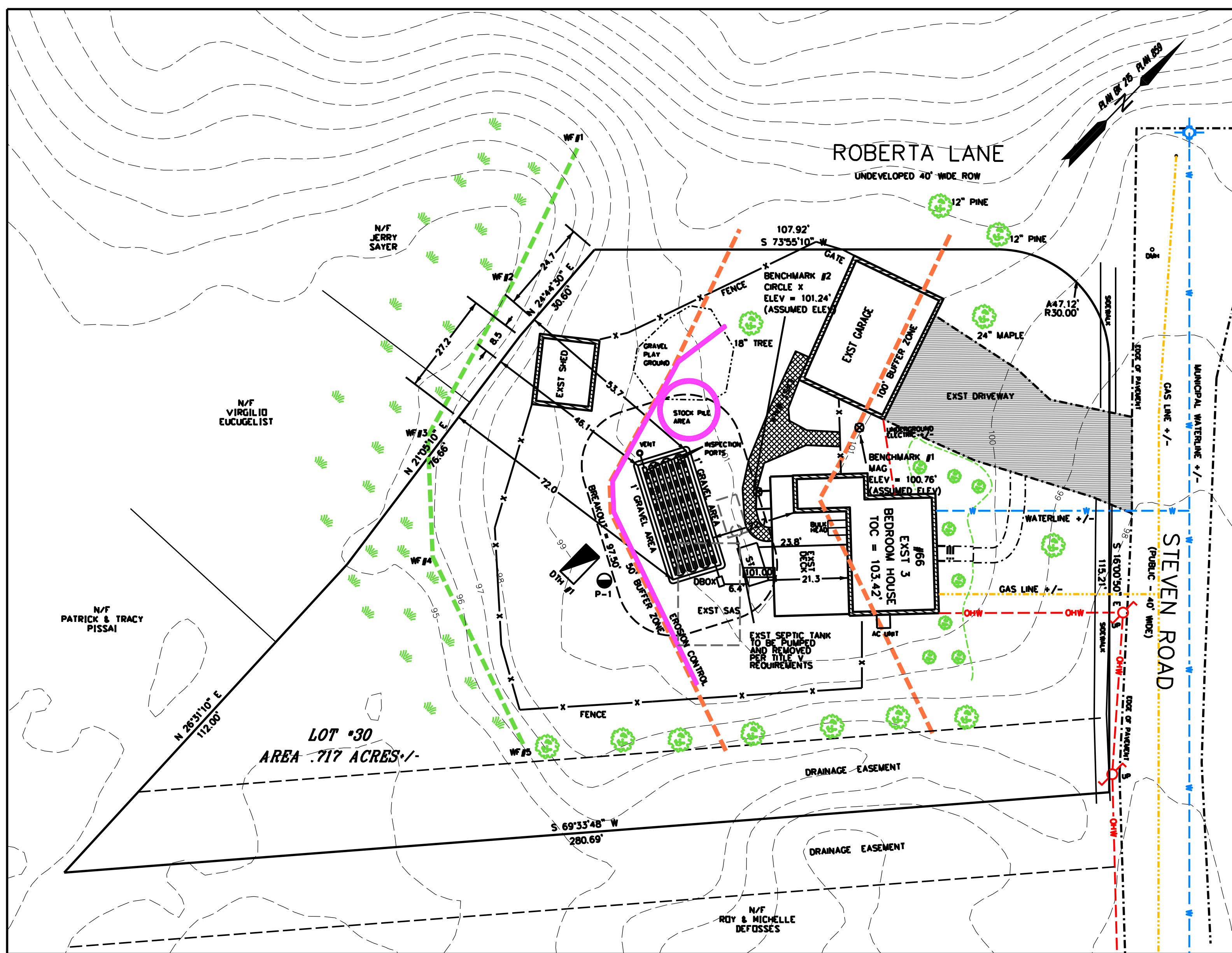
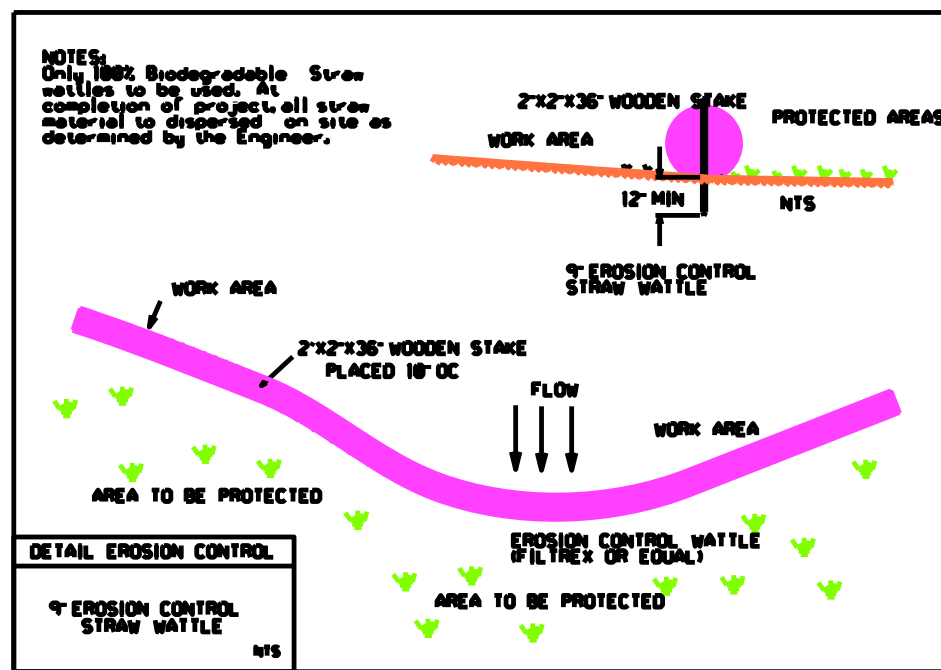
1. EXCAVATE ALL IMPERVIOUS MATERIAL INCLUDING TOP & SUB SOILS, CLAY, ETC.
TO PERVIOUS MATERIAL IN TRENCH AREA AND IN FIVE FOOT (5') GRAVEL AREA.
2. THE GRAVEL SHALL BE PLACED ACCORDING TO SEC. 15.255 SUB-SECTION 3 TO 6.
3. ELEVATION OF TITLE V CONCRETE SAND TOP OF SAND 99.50'
4. PREPARE ENVIRO. LINES TO BE 175.00'
5. DESIGN OF SYSTEM ACC. TO S.D.O. BOTTOM OF SAND 97.50'

- 6.0 ALL OUTLET PIPES FROM THE DISTRIBUTION BOX TO HAVE A MIN. DROP OF 1/4" TO INLET OF EXISTING PIPE.
7.0 NO SURFACE SUBSTANCES OR OPEN DRAINS THAT INTERCEPT GROUNDWATER WITHIN 25' OF THE SEPTIC TANK OR 50' FEET FROM THE LEACHING SYSTEM.
8.0 BENCHMARK TO INSPECT BOTTOM ELEVATION OF LEACHING AREA PRIOR TO GRAVEL PLACEMENT
9.0 HYDRAULIC CEMENT TO BE USED TO SEAL CONNECTIONS AT THE FOUNDATION, SEPTIC TANK, DIST. BOX, & ALL UNUSED OUTLETS.
10.0 LAY & SEED ALL DISTURBED AREAS (ENVIRONMENTAL MATTING ON SLOPES > 50%)
12.0 CONSTRUCTION OF SEPTIC TANK LINDSAY CHAMBER & DISTRIBUTION BOX SHALL CONFORM WITH 300 CMR § 22.02 THROUGH § 22.05

1. TOWN PERMIT # _____
2. SEPTIC TANK TO BE PUMPED ANNUALLY
3. SITE SERVICED BY MUNICIPAL WATER
4. PLAN ☐ IS ☒ IS NOT LOCATED WITHIN
A FLOOD HAZARD ZONE. FEMA MAP #2502IC0303E
5. KNOWN EASEMENTS ON LOT. YES ☒ NO ☐
6. SYSTEM LOCATED IN NITROGEN SENSITIVE AREA
AS DEFINED BY THE MA DEP OR TITLE V. YES ☐ NO ☒

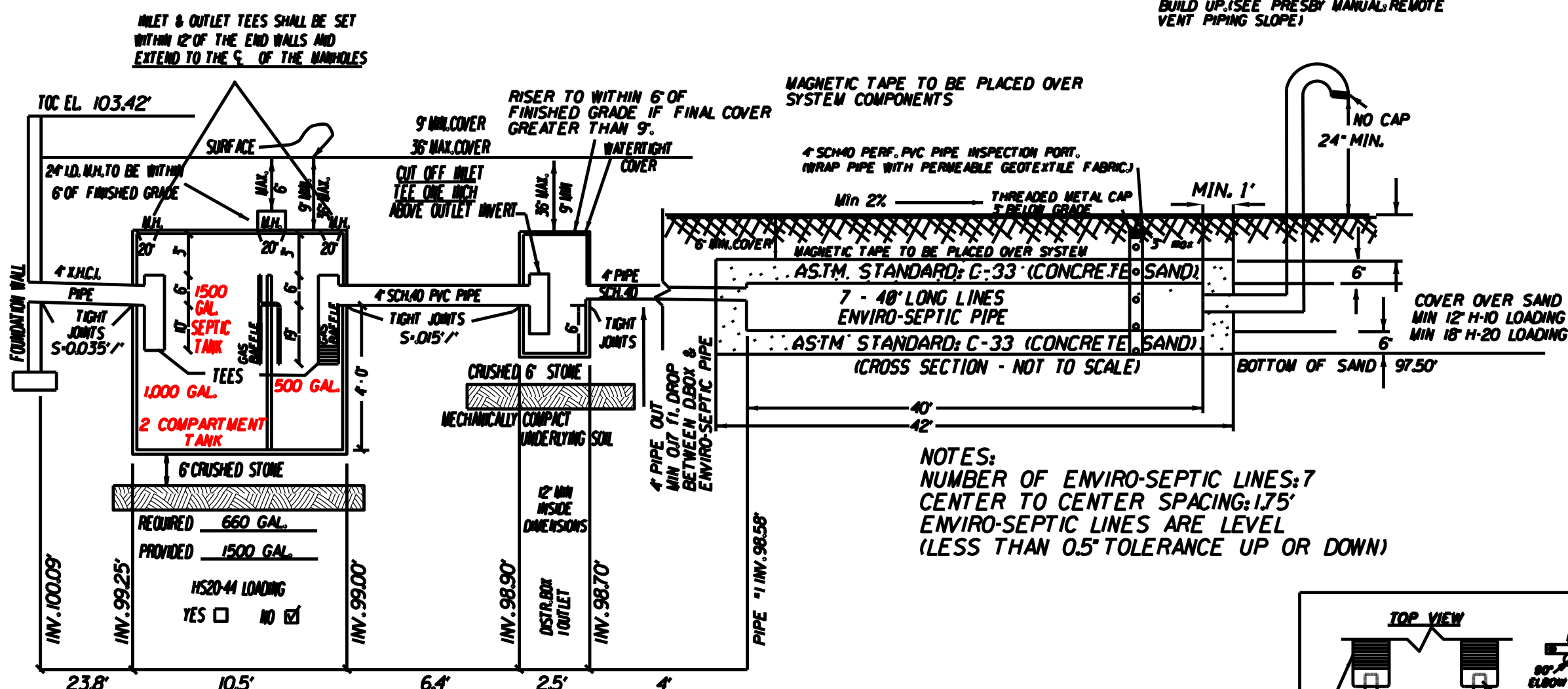
DESIGN RATE 22 MPI
2. SLOPE OF PIPE TO BE LEVEL.
3. 200 LINEAL FEET OF 4" W/NO PIPE REQUIRED
4. USE 210 LINEAR FEET
5. NO GARBAGE DISPOSAL UNIT
6. 3 BEDROOM WATER; DAILY FLOW 330 GPD
7. NO OTHER WELL WITHIN 200 FEET OF THE PROPOSED SYSTEM
OTHER THAN SHOWN ON PLAN, NO OTHER SYSTEM WITHIN 200 FEET
OF THE PROPOSED WELL OTHER THAN SHOWN ON PLAN.
8. WATER SOFTENERS SHALL NOT CONNECT TO SEPTIC TANK.
9. DISPERSED DRAINAGE ON SITE, YES ☒ NO ☐
10. RECLAIMABLE WATER SUPPLY (PUBLICATION SITE), YES ☐ NO ☒
11. ILLU. AREA ☒ ILLU. IS NOT THREATENED BY A PUBLIC
WATER SUPPLY. WATER SUPPLY NOT LOCATED IN A ZONE 2 OF PUBLIC WELLS
12. ALL KNOWN UTILITY LOCATIONS APPROX. ON SITE ARE SHOWN.
13. CONTRACTOR SHALL NOTIFY DIG-SAFE AT 1-888-344-7213
PRIOR TO CONSTRUCTION.

NOTE: ALL SEWER STRUCTURES ARE ABOVE MAXIMUM GROUND WATER.
YES ☒ : NO ☐ SEE HYDRAULIC CALCULATIONS

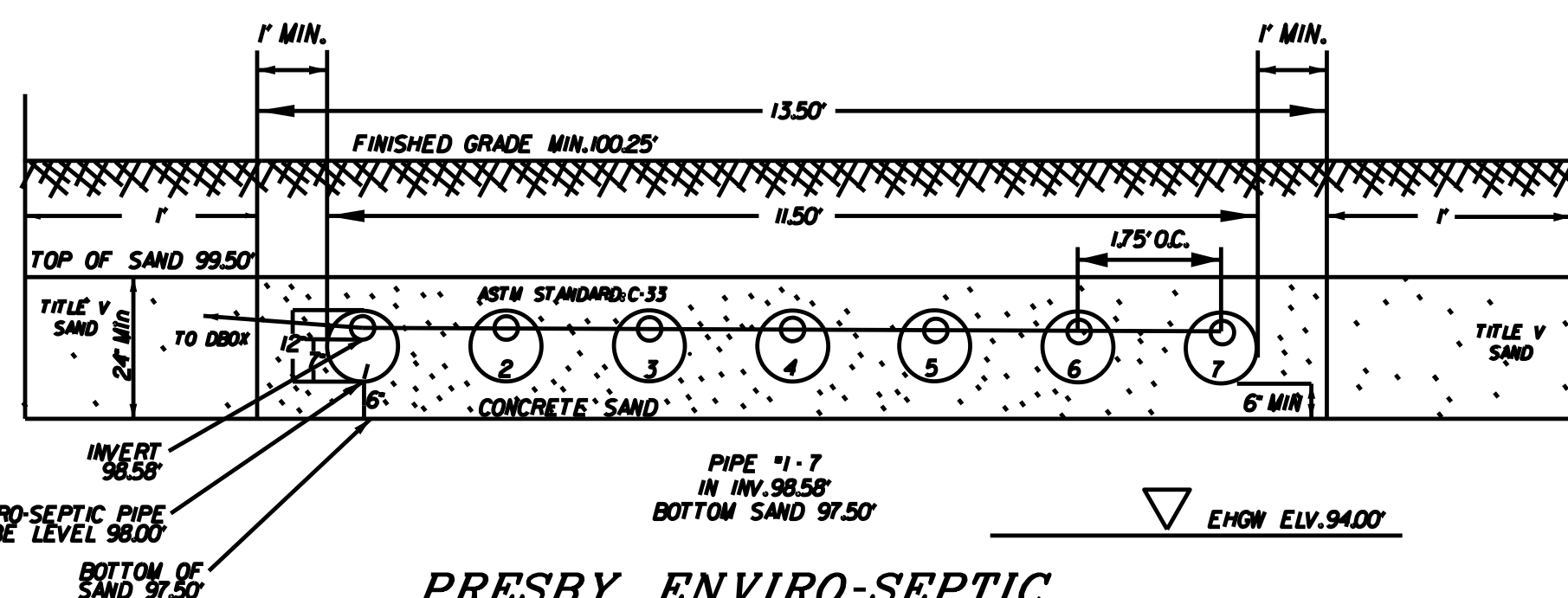
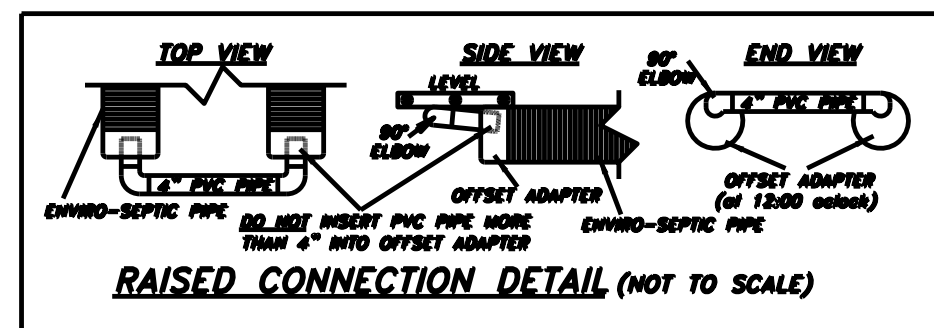


LEGEND	
DEEP TEST HOLE	
PERCOLATION TEST HOLE	
EXISTING CONTOURS	--- 100 ---
PROPOSED CONTOURS	— 100 —
BENCH MARK	
SPOT ELEVATIONS (proposed)	
SPOT ELEVATIONS (exist.)	1000.0
WATERLINE	--- blue ---
OVERHEAD WIRE	--- orange ---
GAS LINE	--- yellow ---

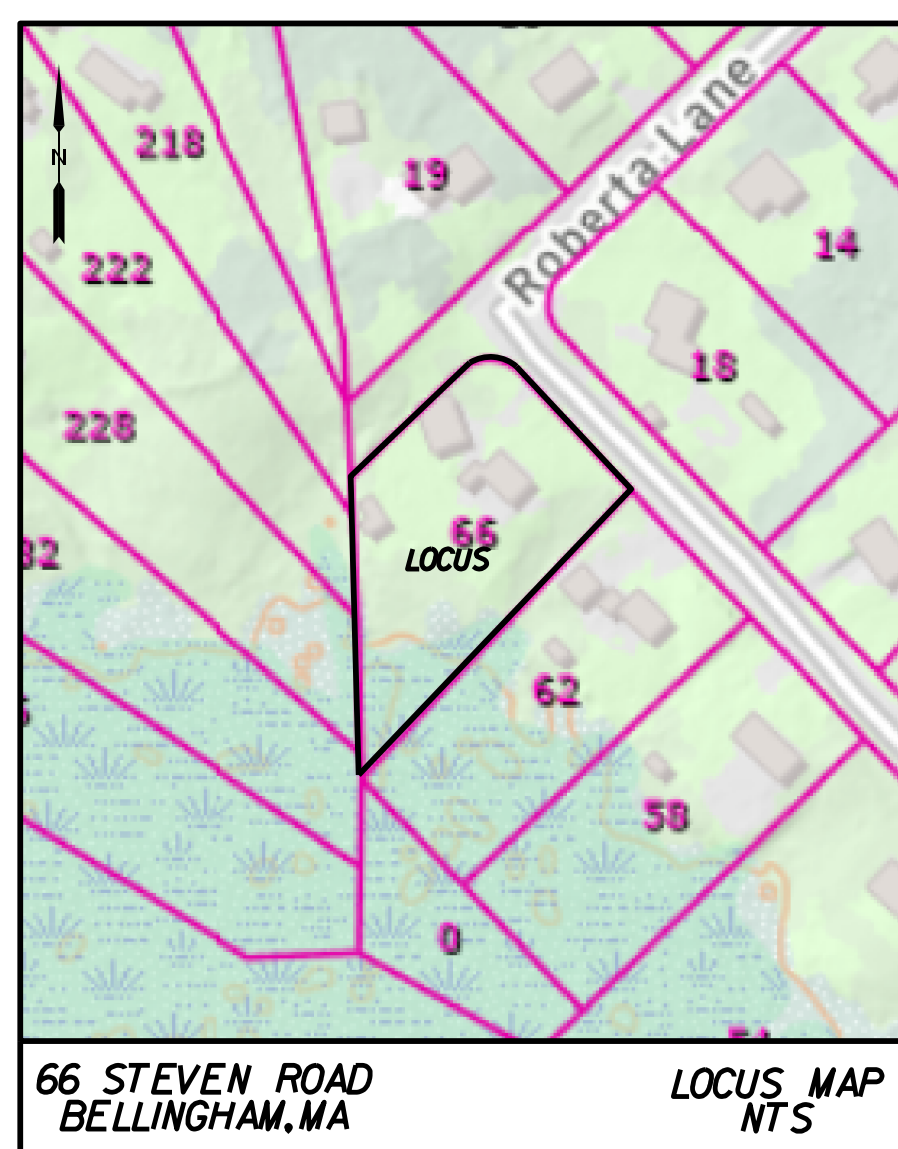
ENVIRO-SEPTIC PIPE DIAMETER 12"
PER TITLE V MIN OF 400 S.F. FOR LEACHING AREA 20 LF OF ENVIRO
PIPE FOR 3 BORN DESIGN WITH A PERC RATE OF 10 MFL
LENGTH OF PIPE 210 LF @ 30' LENGTHS AT 1.75' O.C.
BED AREA PER DEP MINIMUM EFFECTIVE
LEACHING AREA 400 S.F.
LAYOUT 7 LINES AT 30' LONG, SPACED 175' ON CENTER.
13.5' WIDE x 32' LONG x 432 S.F.



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



PRESBY ENVIRO-SEPTIC
EFFLUENT DISPOSAL AREA
CROSS SECTION - NOT TO SCALE



INSTALLER SHALL INSTALL THE SYSTEM IN ACCORDANCE WITH THE PRESBY WASTEWATER TREATMENT SYSTEM'S MAINTENANCE, OPERATION, AND REPAIR MANUAL, ENVIRO-SEPTIC DESIGN AND INSTALLATION MANUAL AND THE CONDITIONS AS SET FORTH IN DEPARTMENT OF ENVIRONMENTAL PROTECTION'S CERTIFICATION FOR THE PRESBY ENVIRO-SEPTIC SYSTEM ISSUED ON MARCH 19, 2019.

PER 310 CMR 15.405 A LOCAL UPGRADE IS REQUIRED TO REDUCE THE ESTIMATED GROUNDWATER OFFSET FROM THE BOTTOM OF THE SOIL ABSORPTION SYSTEM FROM 5' TO 3'. UNDER THE PRESBY ENVIRONMENTAL INC.'S DEP'S REMEDIAL USE APPROVAL LETTER, DATED 9/12/2015, A 2' GROUNDWATER SEPARATION IS CONDITIONALLY APPROVED IF IT MEETS THE REQUIREMENTS UNDER SPECIAL CONDITIONS *4.

ALL EXST. SUBSURFACE UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. THE ENGINEER DOES NOT CERTIFY LOCATIONS OR ELEVATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM LOCATION AND ELEVATION OF EXISTING SEWER,

TOPOGRAPHIC SURVEY WAS CONDUCTED IN JUNE, 2024.

WETLANDS WERE DELINEATED BY MARGARET BACON, PWS IN JUNE 2024.

THIS PLAN TO BE USED FOR A SEPTIC DESIGN PLAN ONLY. THIS PLAN IS NOT TO USED TO ESTABLISH PROPERTY LINES. PROPERTY INFORMATION WAS COMPILED FROM RECORDED DEEDS AND PLANS. SEE PLAN BOOK 215, PLAN 859.

ANY EXISTING GARBAGE DISPOSALS TO BE REMOVED

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

NEITHER ENGINEER OR BOARD OF HEALTH CAN OFFER A GUARANTEE OF LONGEVITY OF THE SEWAGE DISPOSAL SYSTEM. SYSTEM WAS DESIGNED IN ACCORDANCE WITH TITLE V AND STANDARD ENGINEERING PRACTICES. PROPER USE AND MAINTENANCE ARE KEY IN ENSURING THE LIFE AND FUNCTIONALITY OF THIS SYSTEM.

[illegible]

SEWAGE DISPOSAL SYSTEM

FOR

MICHAEL & SHUIKEE R

66 STEVEN ROAD

DATE : AUGUST 6, 2024

SCALE : 1" = 20'

**ENGINEERING LLC**

133 CHES TNUT ST.

FO BOX 248
DOUGLAS MA 01516

SITE PLANNING SEPTIC DESIGN WETLANDS

PROJ. S24107.DGN