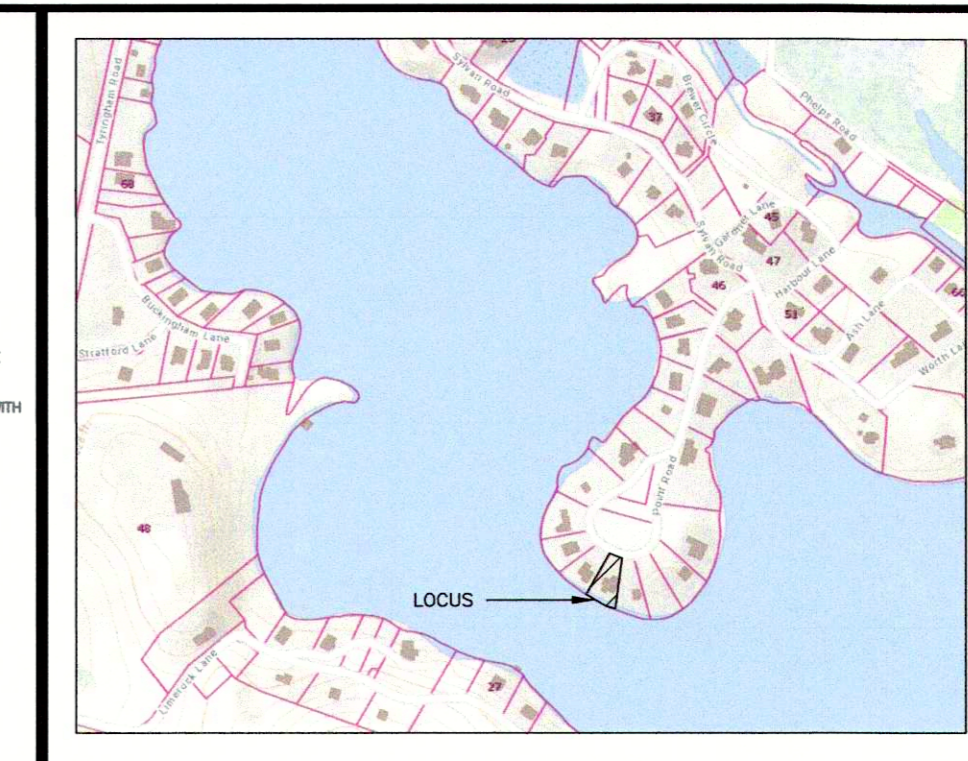
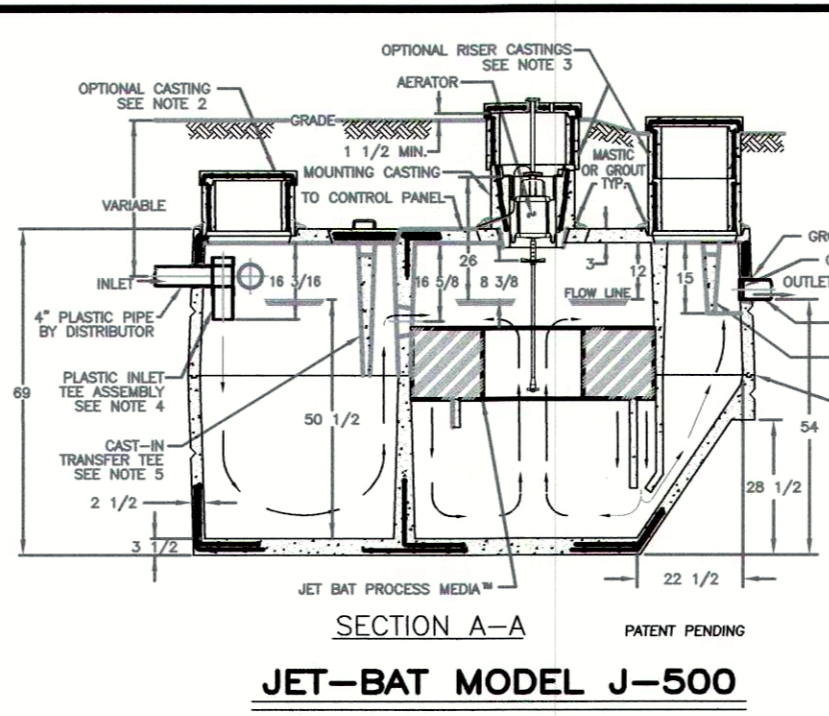


DESIGN DATA
 DAILY DESIGN FLOW:
 (5) BEDROOMS @ 110 GPD = 550 GPD
 PERCOLATION DESIGN RATE: 30 MPI
 SOIL CLASS: II
 LONG TERM ACCEPTANCE RATE: 0.33 GPD/SF
 550 GPD/33 GPD PER SQFT=1666.67 SQFT REQ'D
 USE OAKSON PERC-RITE DRIP DISPERSAL SYSTEM
 1671 SF CUSTOM ZONE DESIGN

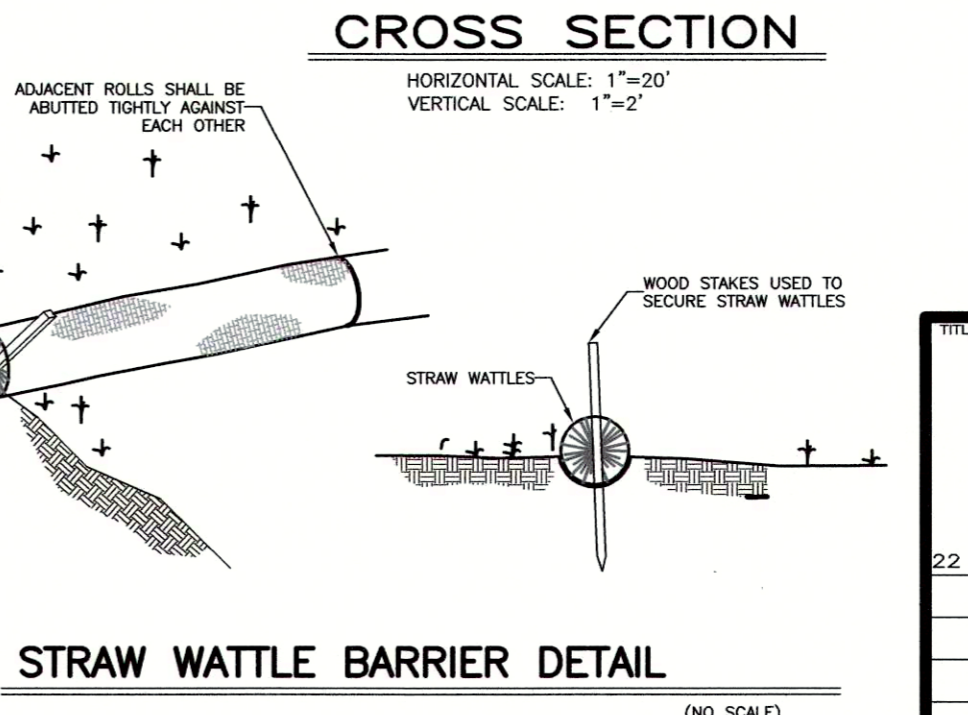
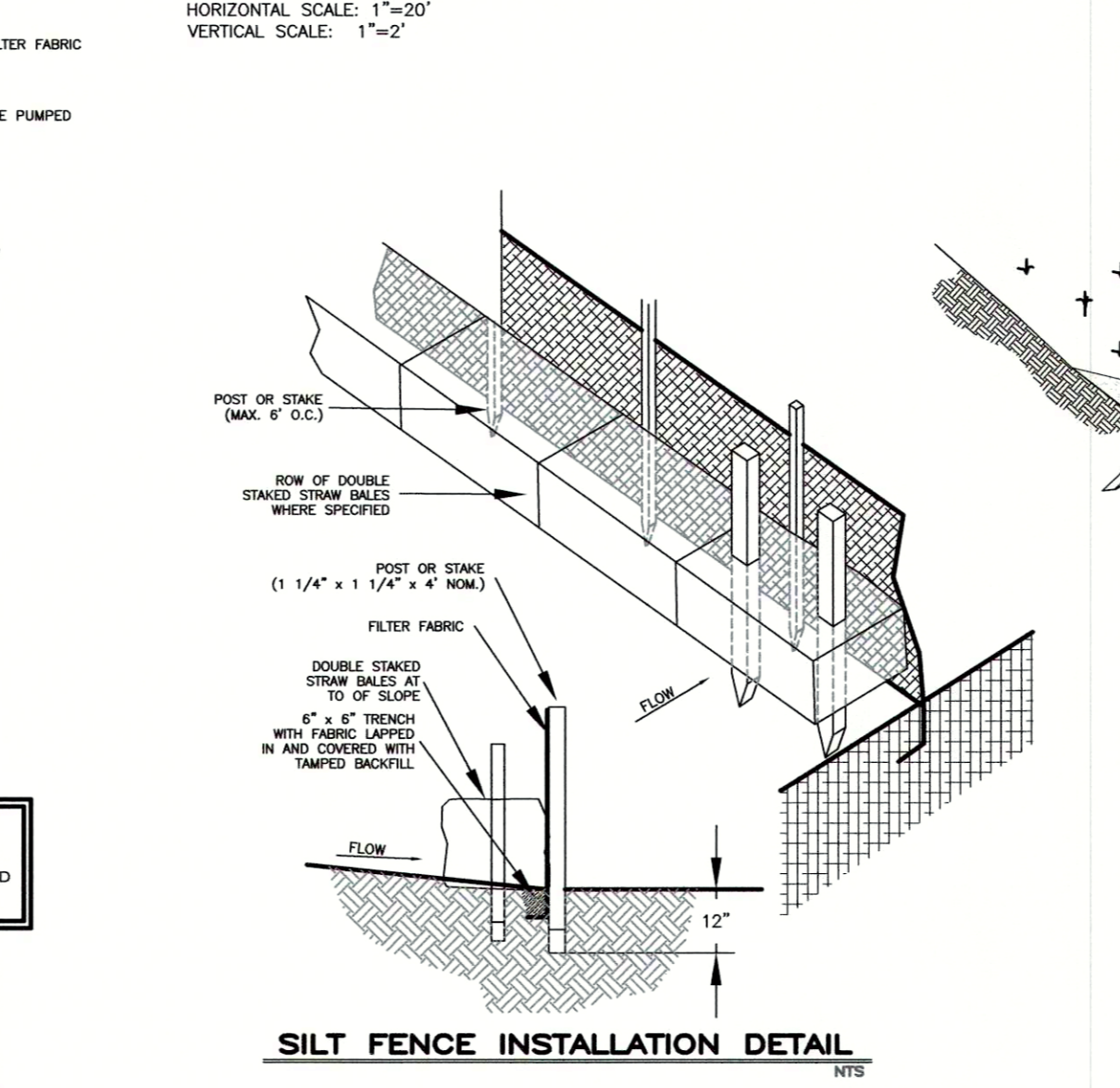
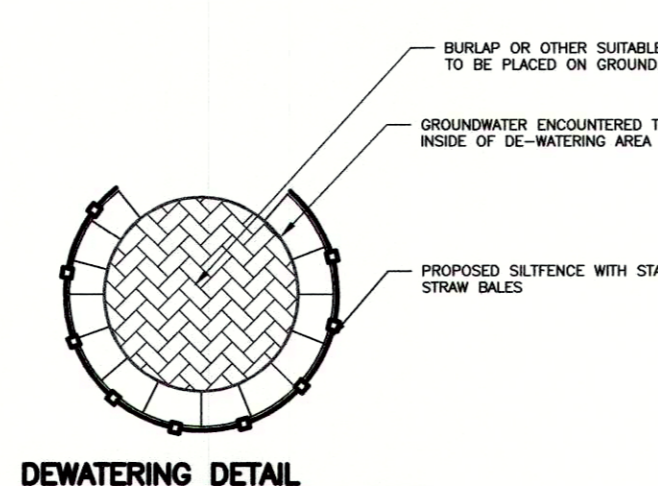
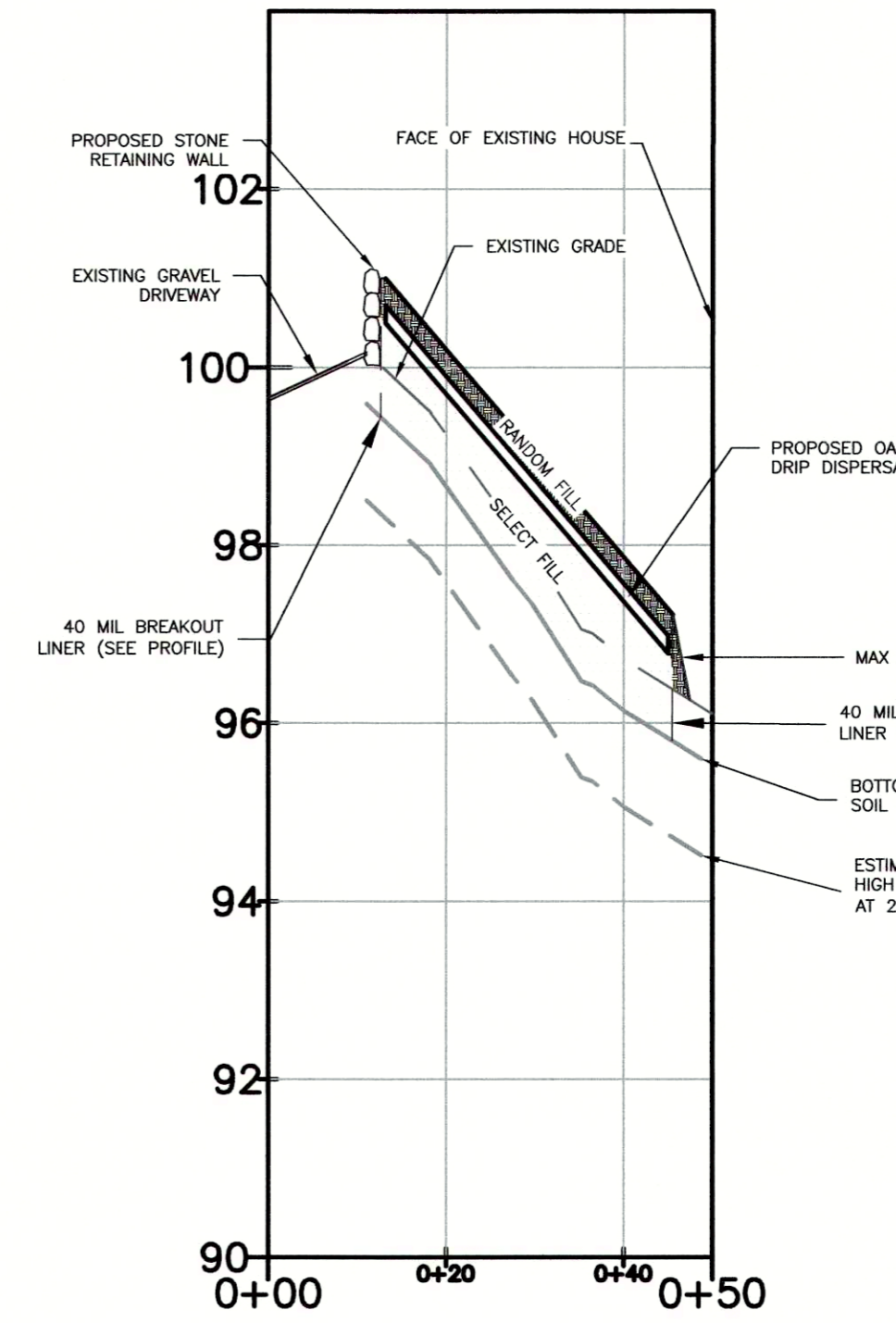
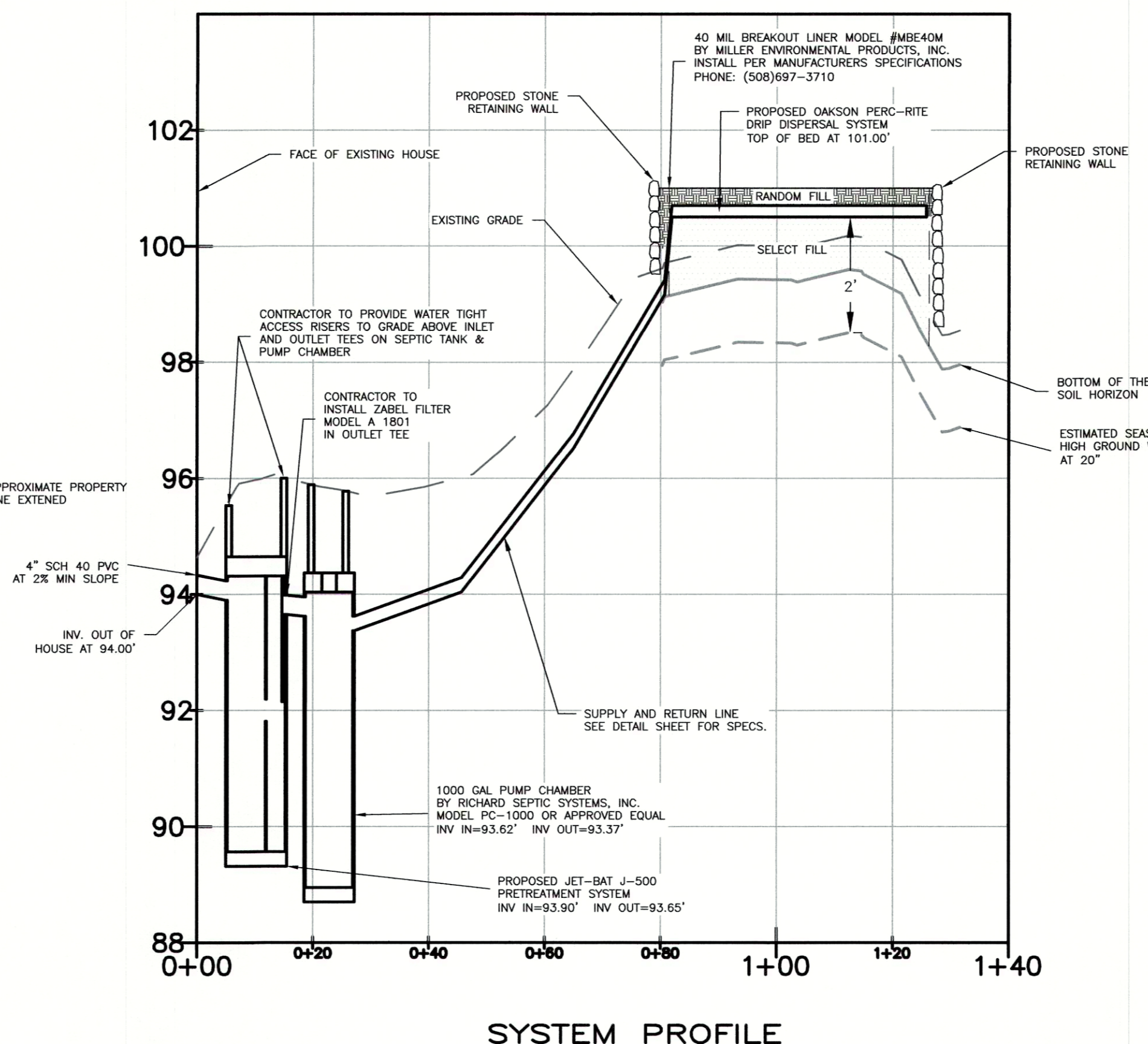
PLANTING LIST

- PLANTING AREA 1:
 22 GIANT GREEN ARBORVITAE (THUJA PLICATA)
 5-6' IN HEIGHT
- PLANTING AREA 2:
 4 FLOWERING DOGWOOD (CORNUS FLORIDA)
 4-5' IN HEIGHT



INTENSITY REGULATIONS

| ZONE: LAKE SHORE | REQUIRED | EXISTING | PROPOSED |
|------------------|----------|-----------------------------------|-----------------------------------|
| LOT AREA | 4 ACRES | 0.23 ACRES | 0.23 ACRES |
| LOT FRONTAGE | 300' | 45' | 45' |
| FRONT SETBACK | 15' | +/- 65.7' | +/- 65.7' |
| SIDE SETBACK | 15' | NORTH +/- 20.4' SOUTH +/- 7.6' | NORTH +/- 13.8' SOUTH +/- 7.6' |
| REAR SETBACK | 15' | +/- 25.3' | +/- 24.7' |
| LOT COVERAGE | 20% MAX | 19.1% | 19.9% |



LOCAL UPGRADE APPROVAL

PER 310 CMR 15.405(1)(a)(LOCAL UPGRADE APPROVAL)--
 THE APPROVING AUTHORITY ALLOWED FOR ONE DEEP HOLE TO ADEQUATELY CHARACTERIZE THE SOILS FOR THE PURPOSE OF DESIGNING THE SOIL ABSORPTION SYSTEM

PER 310 CMR 15.405(1)(b)(LOCAL UPGRADE APPROVAL)--
 APPLICANT REQUESTS 2' REDUCTION IN REQUIRED SEPARATION FROM BOTTOM OF LEACHING AREA TO SEASONAL HIGH GROUND WATER. ACTUAL PROVIDED SEPARATION IS 4'.

PER 310 CMR 15.405(1)(c)(LOCAL UPGRADE APPROVAL)--
 APPLICANT REQUESTS 5' REDUCTION IN REQUIRED 10' SETBACK FROM A S.S. TO A PROPERTY LINE. ACTUAL DISTANCE PROVIDED IS 5.7'.

PRESSURE DISTRIBUTION SYSTEM NOTES

- ALL LEACHING FACILITY ORIFICES ARE TO BE 1/4" DIAMETER.
- HOLES SHALL BE CLEAN AND FREE OF BURRS, HOWEVER THERE IS TO BE NO REAMING.
- ALL PIPING IN THE DISTRIBUTION NETWORK SHALL BE SCH40 PVC UNLESS OTHERWISE NOTED.
- INSTALL CLEANOUTS AT ENDS OF EACH LATERAL, WITH DRAIN HOLE NEAR INVERT OF END CLEANOUT.
- PRIOR TO INSTALLATION OF END CAPS ON LATERALS, CONTRACTOR IS TO PRESSURIZE THE SYSTEM TO FLUSH OUT THE LATERALS. ALL PLASTIC PIECES AND SHAVINGS FROM THE DRILLING OF THE ORIFICES ARE TO BE COMPLETELY REMOVED.
- FOR TESTING OF PRESSURE DISTRIBUTION SYSTEM, THE CONTRACTOR SHALL INSTALL TEMPORARY CAPS ON THE CLEANOUTS FOR THE LATERALS LOCATED AT EACH SIDE OF THE FIELD. A 1/4" HOLE SHALL BE DRILLED IN THE TEMPORARY CAP TO ALLOW FOR VERIFICATION OF ADEQUATE HEAD IN THE DISTRIBUTION SYSTEM DURING DOSING. TEMPORARY CAP IS TO BE REMOVED UPON COMPLETION OF SYSTEM TESTING AND REPLACED WITH A WATER TIGHT THREADED CAP.
- SYSTEM TO BE TESTED WITH ENGINEER ON SITE PRIOR TO USE.

ALTERNATIVE TECHNOLOGY NOTES:

- THIS DESIGN EMPLOYS A 2' REDUCTION IN SEPARATION TO HIGH SEASONAL GROUNDWATER AS ENTITLED BY RIGHT UNDER THE JET BAT REMEDIAL APPROVAL BY THE DEPT. OF ENVIRONMENTAL PROTECTION.
- JET BAT UNIT IS TO BE INSTALLED PER MANUFACTURERS AND DISTRIBUTORS INSTRUCTIONS.
- OWNER IS TO PROVIDE COPY OF JET-BAT OPERATION AND MAINTENANCE AGREEMENT TO THE TRI TOWN HEALTH DEPARTMENT UPON EXECUTION OF CONTRACT.

SOIL EVALUATION

PERFORMED BY: AARON J BIASIN SE14367
 WHITE ENGINEERING, INC.
 DATE: 12/4/2020
 WITNESSED BY: JAMES WILUZZ
 AGENT FOR: MONTEREY BOARD OF HEALTH

TEST PIT #1

| HORIZON | FILL | TEXTURE | COLOR | MOISTURE | REMARKS |
|---------|------|------------|--------------|---|---------|
| "A" | 4" | LOAMY SAND | 2.5 YR 2.5/1 | GRANULAR/FRIABLE | |
| "Bw1" | 7" | FINE SAND | 10 YR 4/4 | MOTTLED >3% BELOW 20" | |
| "Bw2" | 23" | SANDY LOAM | 10 YR 3/2 | SINGLE GRAIN/LOOSE | |
| "C" | 36" | SANDY LOAM | 2.5 Y 5/4 | SINGLE GRAIN/LOOSE/DENSE COMPACTED SOIL | |

BOH=8.4'
 ESTIMATED SEASONAL HIGH GROUND WATER: 20" DEPTH TO REFUSAL: +8.4"

PERC TEST #1

DEPTH OF PERC: 46"
 PERC RATE: 30 MIN/INCH PER SOIL ANALYSIS SAMPLE

SELECT FILL SHALL CONFORM TO STANDARDS AS DESCRIBED IN 310 CMR 15.255(3). A SIEVE ANALYSIS SHALL BE PROVIDED TO THE ENGINEER SHOWING A REPRESENTATIVE SAMPLE OF SELECT FILL. THIS ANALYSIS SHALL DEMONSTRATE THAT THE MATERIAL MEETS THE FOLLOWING SPECIFICATIONS. NO MATERIAL IS LARGER THAN 2" UP TO 45% BY WEIGHT OF THE SAMPLE MAY BE RETAINED ON THE #4 SIEVE AND THE FRACTION OF THE FILL SAMPLE PASSING SHALL MEET THE FOLLOWING CRITERIA

| SIEVE SIZE | EFFECTIVE PARTICULATE SIZE | % PASSING |
|------------|----------------------------|-----------|
| # 4 | 4.75 mm | 100 |
| # 50 | 0.30 mm | 10-100 |
| #100 | 0.15 mm | 0-20 |
| #200 | 0.075 mm | 0-5 |

PROPOSED SITE DEVELOPMENT PLAN
 for
ARLEN GELBARD

22 POINT ROAD TAX MAP #102 LOT #25 MONTEREY, MA

| NO. | DESCRIPTION | DATE | BY |
|-----|--|--------------|-----|
| 3 | INCLUDED ABUTTERS SETBACKS, AND VERIFIED PROPERTY LINES | 08/26/2021 | AJB |
| 2 | CLARIFIED NOTES ON BEDROOM COUNT, ADDED 40' ZONING SETBACK | JULY 7, 2021 | AJB |
| 1 | CORRECTED NORTH ARROW | JULY 2, 2021 | AJB |

WHITE ENGINEERING INC.
 CIVIL & ENVIRONMENTAL
 55 SOUTH MERRIAM STREET, PITTSFIELD, MA 01201
 PHONE: (413) 443-8011 WEB: WHITEEN.COM FAX: (413) 443-8012
 LICENSED IN CONNECTICUT, MASSACHUSETTS, NEW YORK AND VERMONT

DATE: AUGUST 27, 2021 DRN: AJB APVD: BMW DWG NO: 20-09-04C
 ORGN: AJB CKD: BMW SCALE: AS NOTED SHEET 1 OF 2

