

THE PROPOSED FILL MATERIAL SHALL MEET THE REQUIREMENTS OF 310 CMR 15.255, CONSTRUCTION IN FILL.

FILL SPECIFICATIONS

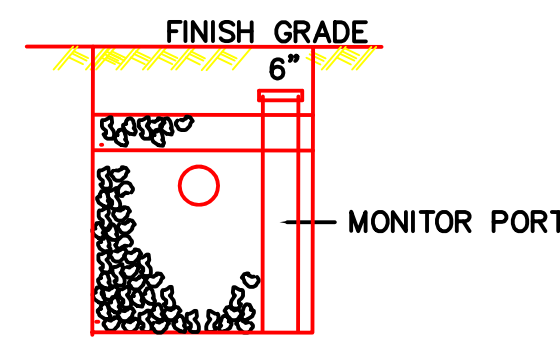
THE FILL SHALL BE COMPRISED OF CLEAN GRANULAR SAND, FREE OF ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOIL SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN TWO INCHES. A SIEVE ANALYSIS, USING A #4 SIEVE, SHALL BE PERFORMED ON REPRESENTATIVE SAMPLES OF THE FILL, UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED ON THE #4 SIEVE. SIEVE ANALYSIS SHALL BE PERFORMED ON THE FRACTION OF THE FILL SAMPLE PASSING THE #4 SIEVE, SUCH ANALYSIS MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS.

SIEVE SIZE	EFFECTIVE PARTICLE SIZE	% THAT MUST PASS SIEVE
#4	4.75 mm	100%
#50	0.30 mm	10% - 100%
#100	0.15 mm	0% - 20%
#200	0.075 mm	0% - 5%

Stabilization

- Max sloping is to be 3:1
- All sloping and disturbed areas to be loamed, seeded, fertilized and mulched.
- Stabilization of disturbed areas shall be checked throughout construction phases until vegetation is established and repaired as needed.

INSPECTION PORT DETAIL



OBSERVATION MONITOR PORT

PERFORATED OBSERVATION MONITOR PORT SHALL BE INSTALLED TO THE BOTTOM LEACHING INTERFACE OF ALL SEGMENTS OF THE LEACHING AREA, AND EXTENDED TO WITHIN 6 INCHES OF THE FINISHED GRADE WITH A CAP, AND SHALL BE AVAILABLE FOR SYSTEM INSPECTION WHEN REQUIRED.

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.017 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.017. I FURTHER CERTIFY I CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, AS INDICATED ON THE ATTACHED SOIL EVALUATION FORM, ARE ACCURATE AND IN ACCORDANCE WITH 310CMR 15.100 THROUGH 15.107.

SIGNATURE _____ DATE _____

CONSERVATION COMMISSION LEGEND

- EDGE OF BORDERING VEGETATED WETLAND
- EDGE OF 100' BUFFER ZONE
- STAKED SILTATION FENCE & STRAW WATTLE

TEST HOLE 16-1

0	398.7
2"	398.5
18"	397.2
30"	396.2
42"	395.2
60"	393.7
96"	390.7

TEST HOLE 16-2

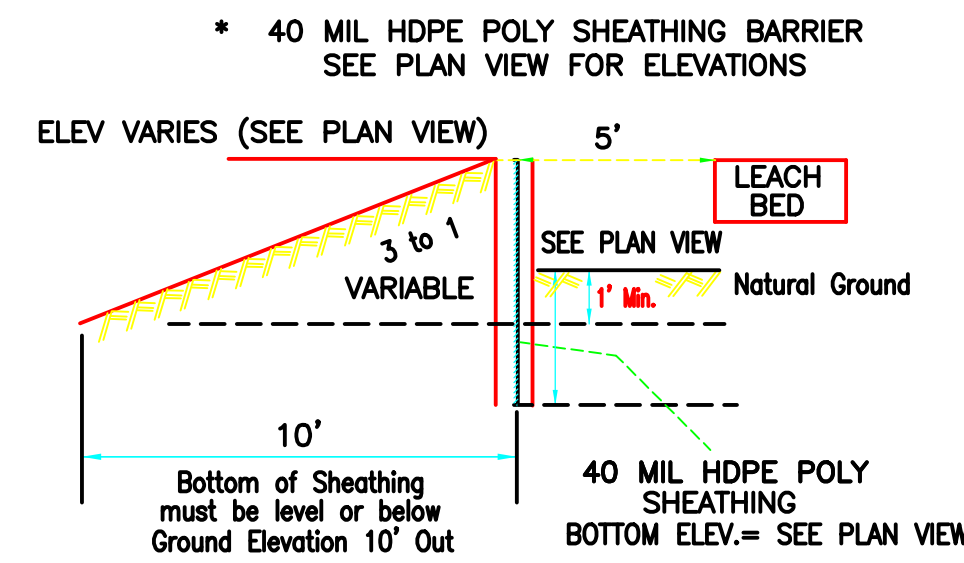
0	398.1
20"	396.4
30"	395.6
66"	392.6
78"	391.6
108"	389.1

TEST HOLE 16-3

0	400.7
2"	400.5
6"	400.2
20"	399.0
26"	398.5
96"	392.7

Soil Evaluator - STEVEN DONATELLI
 Witness - LENNY IZZO
 Date of Test - 8/08/2020
 Perc Rate - 30 M.P.I.
 Design Rate - 0.33 LTAR
 Design G.W. - ELEV. = 425.8
 Mottling - 20" @ T.H. 16-3

IMPERVIOUS BARRIER DETAIL



ZONING - RURAL RESIDENTIAL

MINIMUM SETBACKS
 FRONT - 50'
 SIDE - 20'
 REAR - 20'

IN ACCORDANCE WITH 310 CMR 15.211, GENERAL CONSTRUCTION REQUIREMENTS SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED. MAGNETIC MARKING TAPE SHALL BE PLACED ABOVE THE OUTSIDE PERIMETER OF THE SEPTIC TANK, PUMP CHAMBER, DISTRIBUTION BOX, LEACH BED AND ABOVE ALL PIPING BEGINNING AT THE FOUNDATION THROUGH TO THE DISTRIBUTION BOX.

NOTE: WATER CONSERVATION IS RECOMMENDED (LOW FLUSH TOILETS, LOW FLOW SHOWERS ETC.)

ABANDONMENT OF THE EXISTING SEPTIC SYSTEM IS TO BE IN ACCORDANCE WITH 310 CMR 15.364, ABANDONMENT OF SYSTEMS

(SEPTIC TANK AND OUTLET EFFLUENT FILTER TO BE PUMPED AND CLEANED EVERY ONE - TWO YEARS)

ANY UNDERGROUND UTILITIES TO BE LOCATED BY CONTRACTOR PRIOR TO CONSTRUCTION.

THERE WERE NO WETLANDS OBSERVED WITHIN 100' OF ANY PROPOSED CONSTRUCTION.

THERE ARE NO KNOWN SEWAGE DISPOSAL SYSTEMS WITHIN 100' OF THE PROPOSED WELL.

THERE ARE NO KNOWN WELLS WITHIN 200' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.

AN AS-BUILT PLAN WILL BE REQUIRED

The tees in the septic tank shall be brought to the middle of the manhole openings.

Manhole is to be placed over the outlet end of the Septic Tank for access & maintenance of Effluent Filter. Manhole Cover is to be locking or bolted securely.

BUOYANCY CALCULATIONS

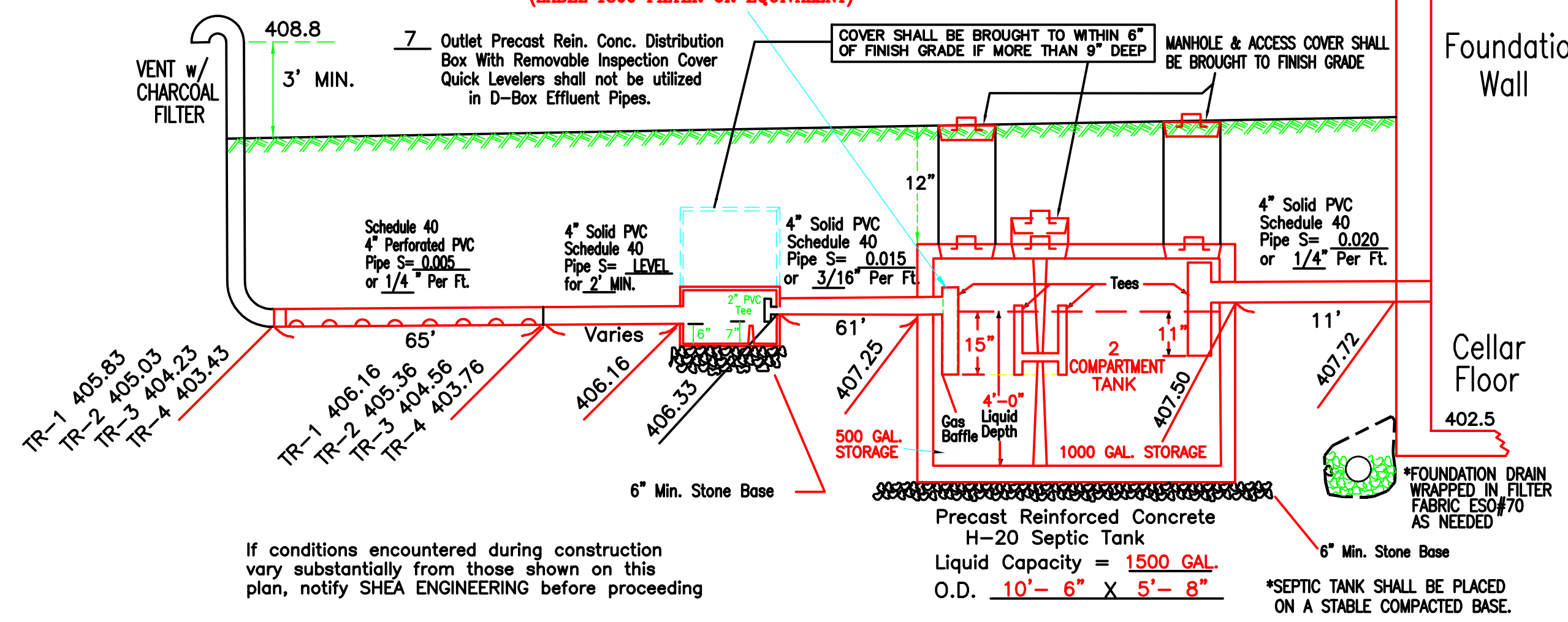
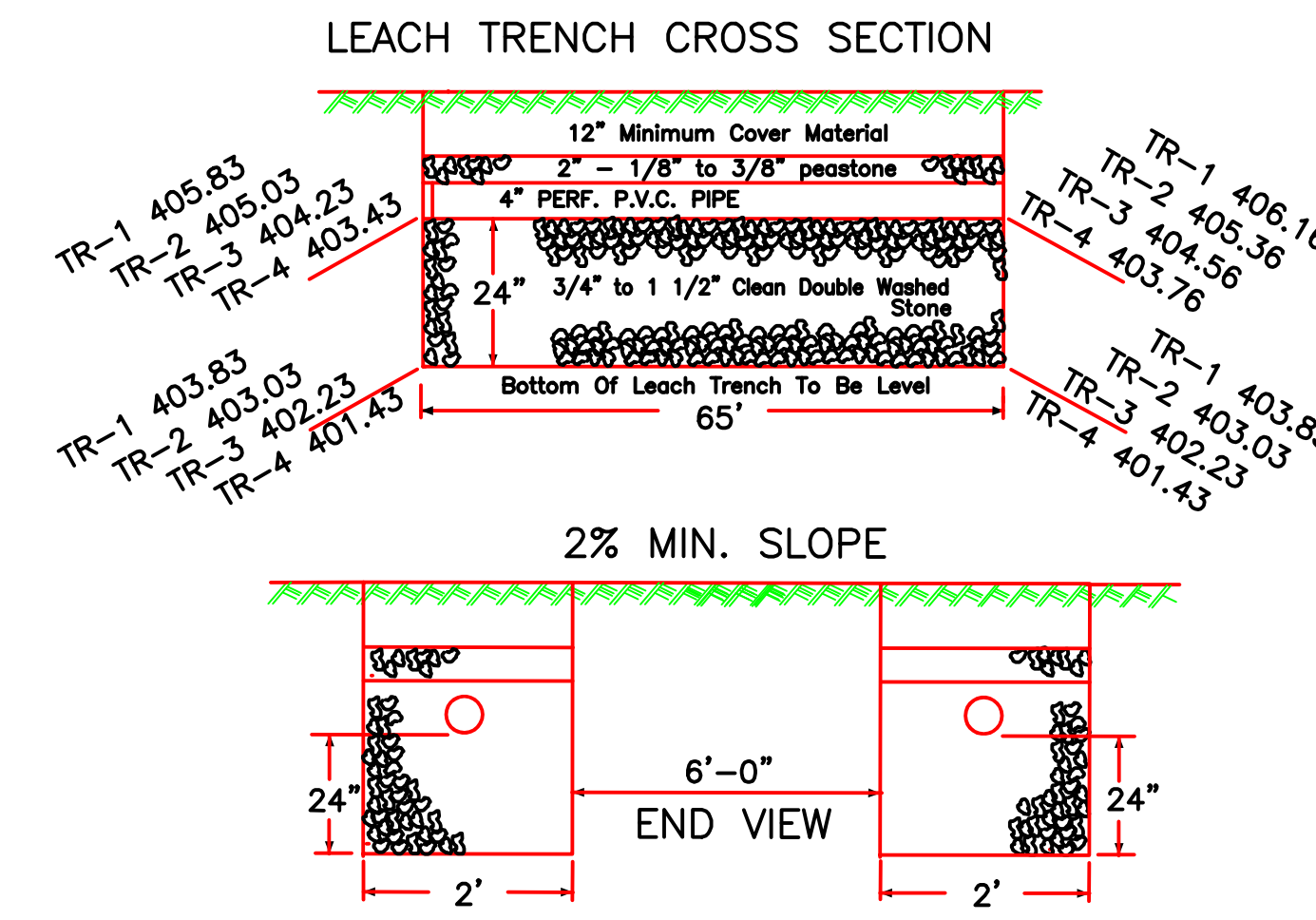
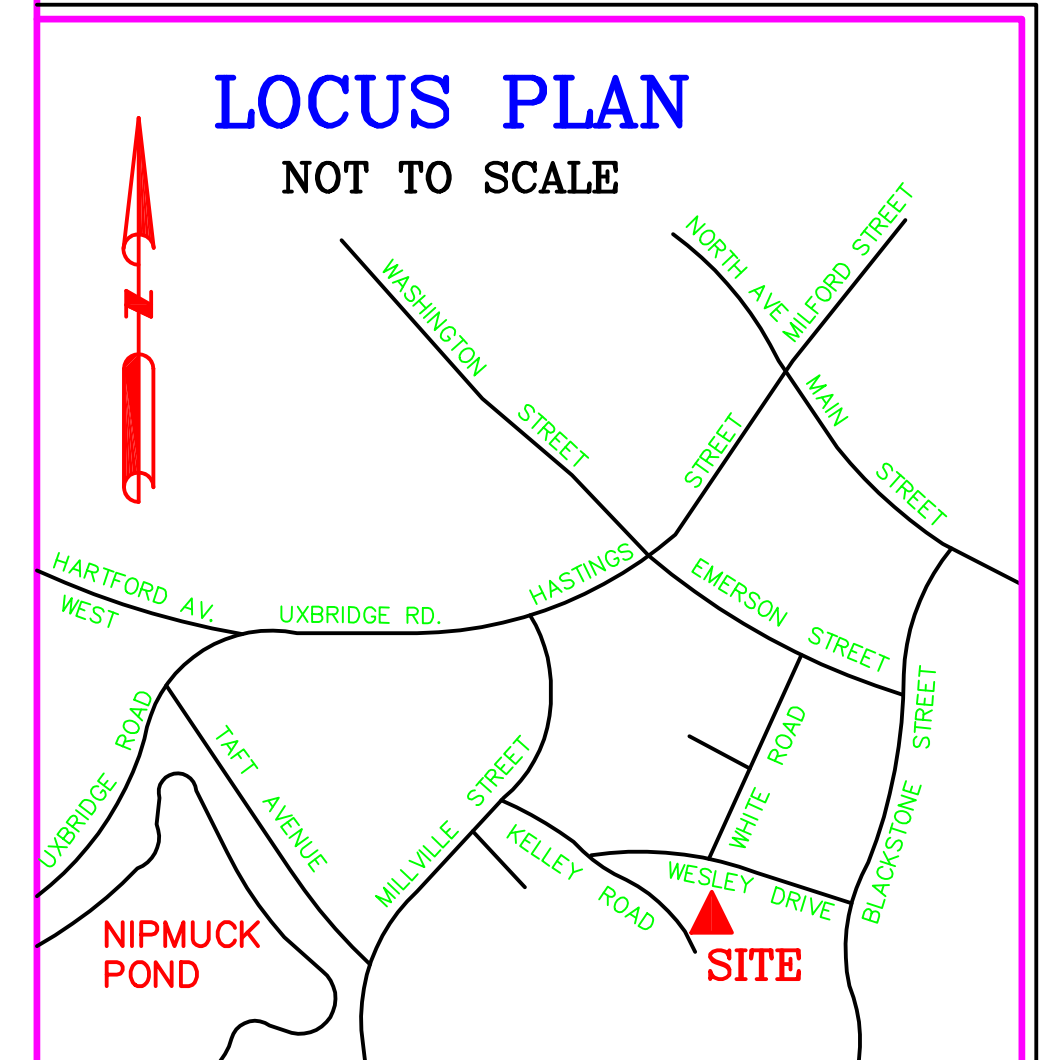
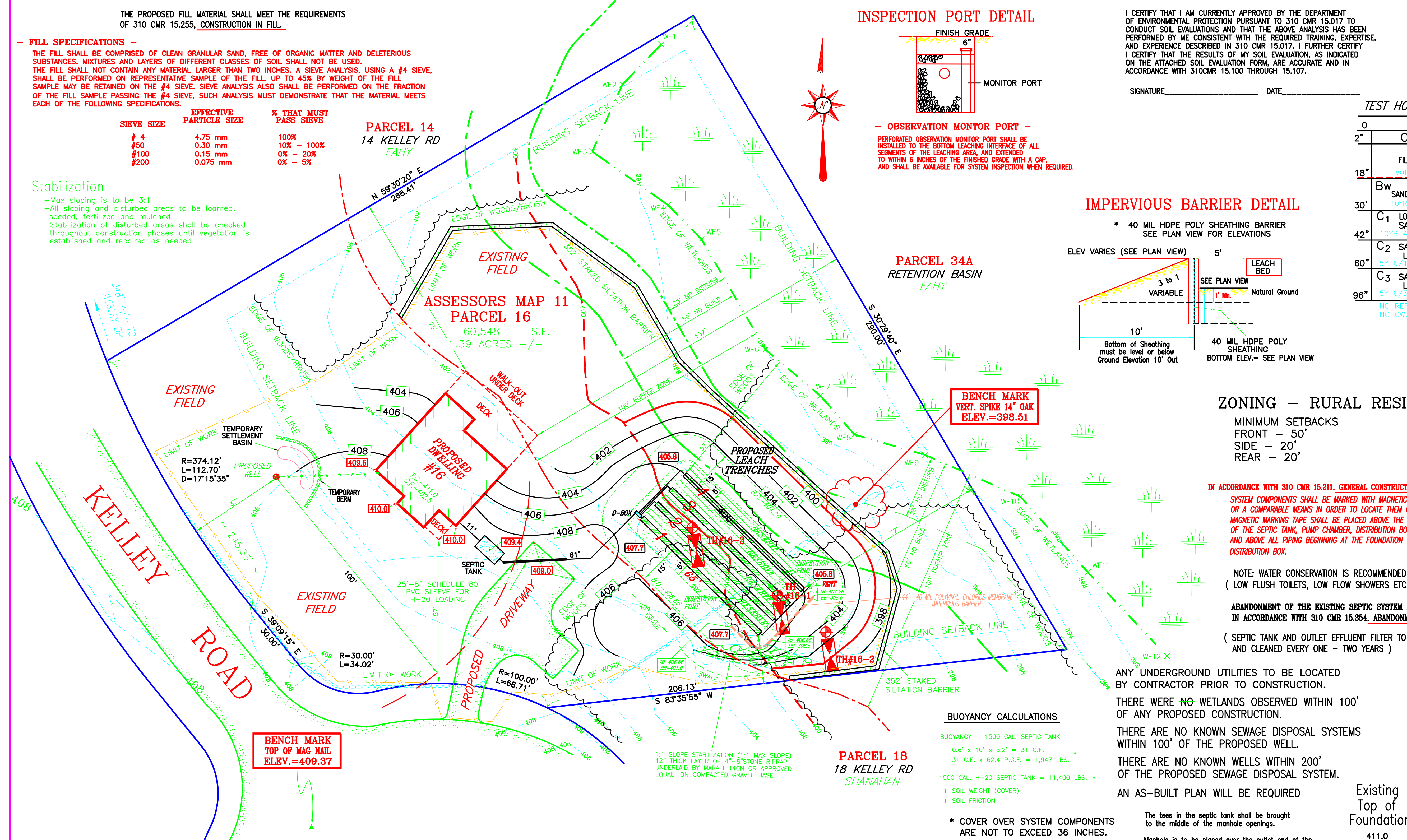
BUOYANCY - 1500 GAL. SEPTIC TANK
 $0.6' \times 10' \times 5.2' = 31 \text{ C.F.}$
 $31 \text{ C.F.} \times 62.4 \text{ P.C.F.} = 1,947 \text{ LBS.}$
 1500 GAL. H-20 SEPTIC TANK = 11,400 LBS.
 + SOIL WEIGHT (COVER)
 + SOIL FRICTION

* COVER OVER SYSTEM COMPONENTS ARE NOT TO EXCEED 36 INCHES.

*OUTLET FILTER & REGULAR PUMPING REQUIRED (ZABEL 1800 FILTER OR EQUIVALENT)

PARCEL 18
 18 KELLEY RD
 SHANAHAN

1:1 SLOPE STABILIZATION (1:1 MAX SLOPE)
 12" THICK LAYER OF 4"-8" STONE RIPRAP UNDERLAIN BY MARAFI 140N OR APPROVED EQUAL, ON COMPACTED GRAVEL BASE.

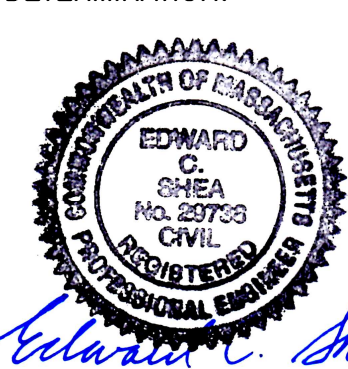


APPLICANT	LEGEND	IMPERVIOUS BARRIER TOP & BOTTOM ELEVS
THOMAS D'ALIO 128A Blackstone St. MENDON, MASS. 01756	100 100.00 100.00	100 100.00 100.00
SITE	100.00 100.00	100.00 100.00
16 KELLEY ROAD MENDON, MASS.	100.00 100.00	100.00 100.00

SEWAGE DISPOSAL PLAN
 IN
MENDON, MASS.
 SCALE 1" = 20' MARCH 30, 2020

I CERTIFY THAT THE SEWAGE DISPOSAL FACILITY IS DESIGNED IN ACCORDANCE WITH TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND THE REGULATIONS OF THE MENDON BOARD OF HEALTH.
 NOTE: THIS PLAN WAS NOT MADE FROM AN INSTRUMENT PROPERTY LINE SURVEY AND IS DRAWN FOR SEWAGE DISPOSAL PURPOSES ONLY AND NOT FOR PROPERTY LINE DETERMINATION.

APPROVAL _____
 DISAPPROVAL _____
 SIGNATURE _____
 DATE _____



Shea ENGINEERING & SURVEYING, INC.
 76 UXBRIDGE ROAD, MENDON, MASS. - (508) 473-1163
 D'ALIO 16 KELLEY ROAD - MENDON