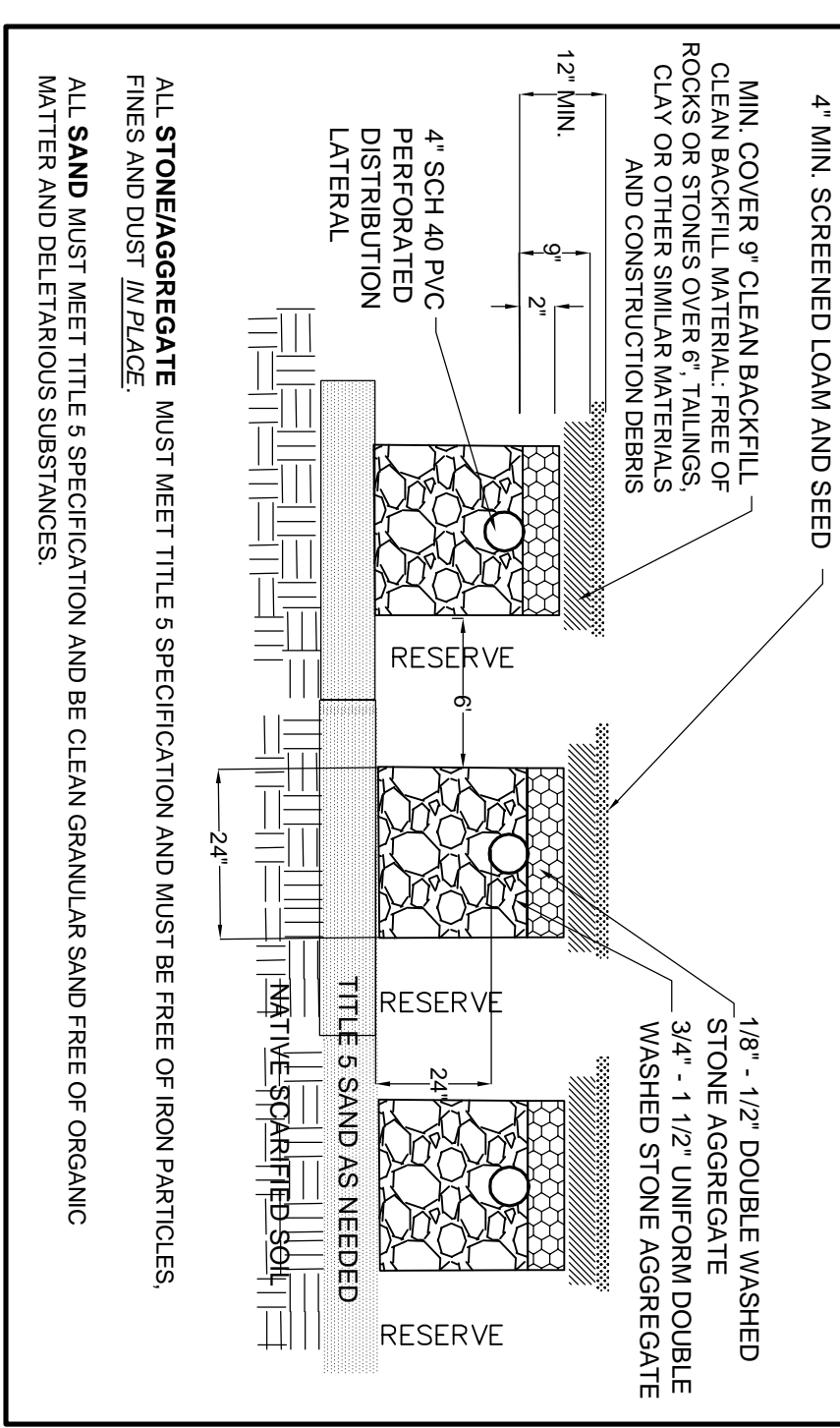
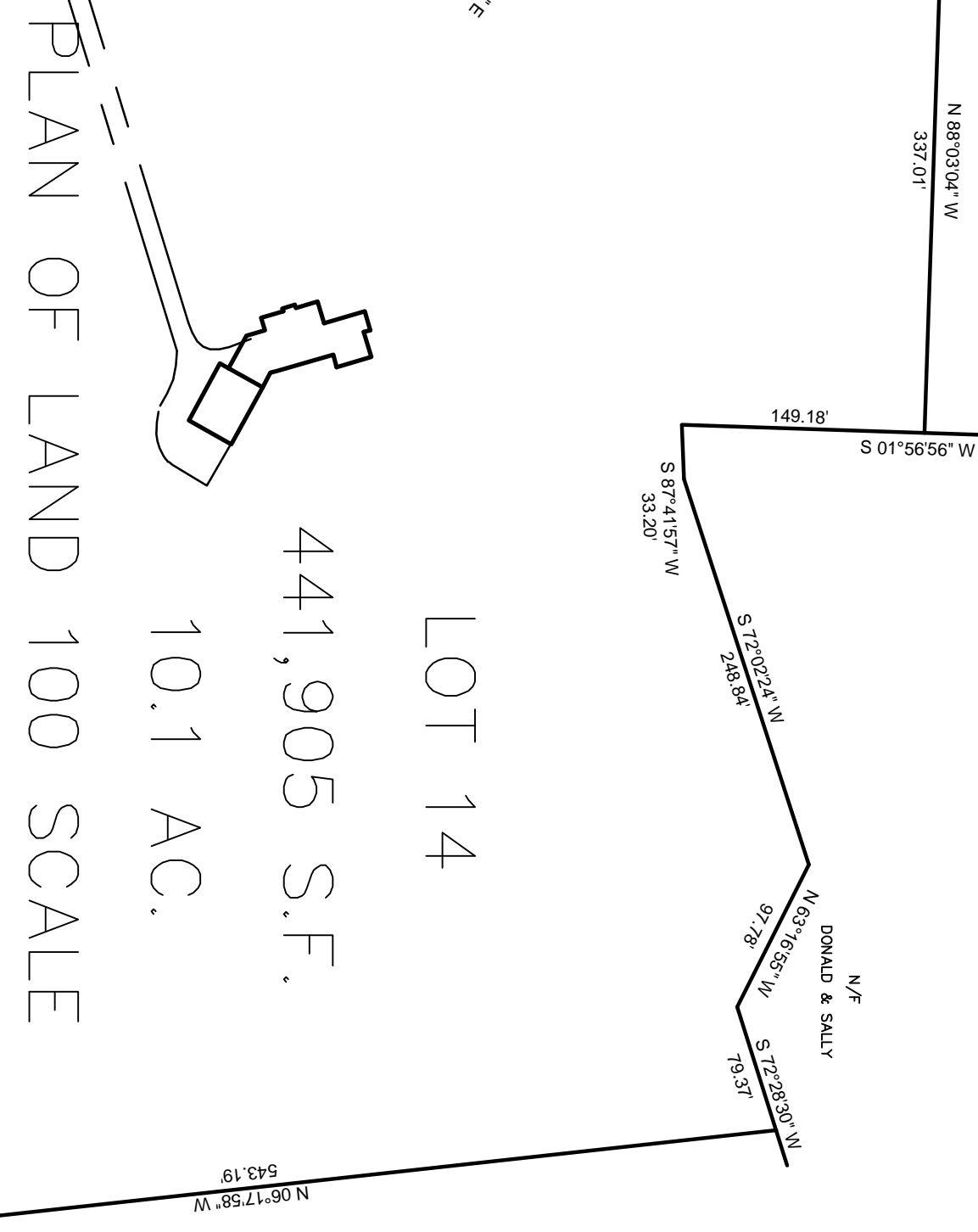
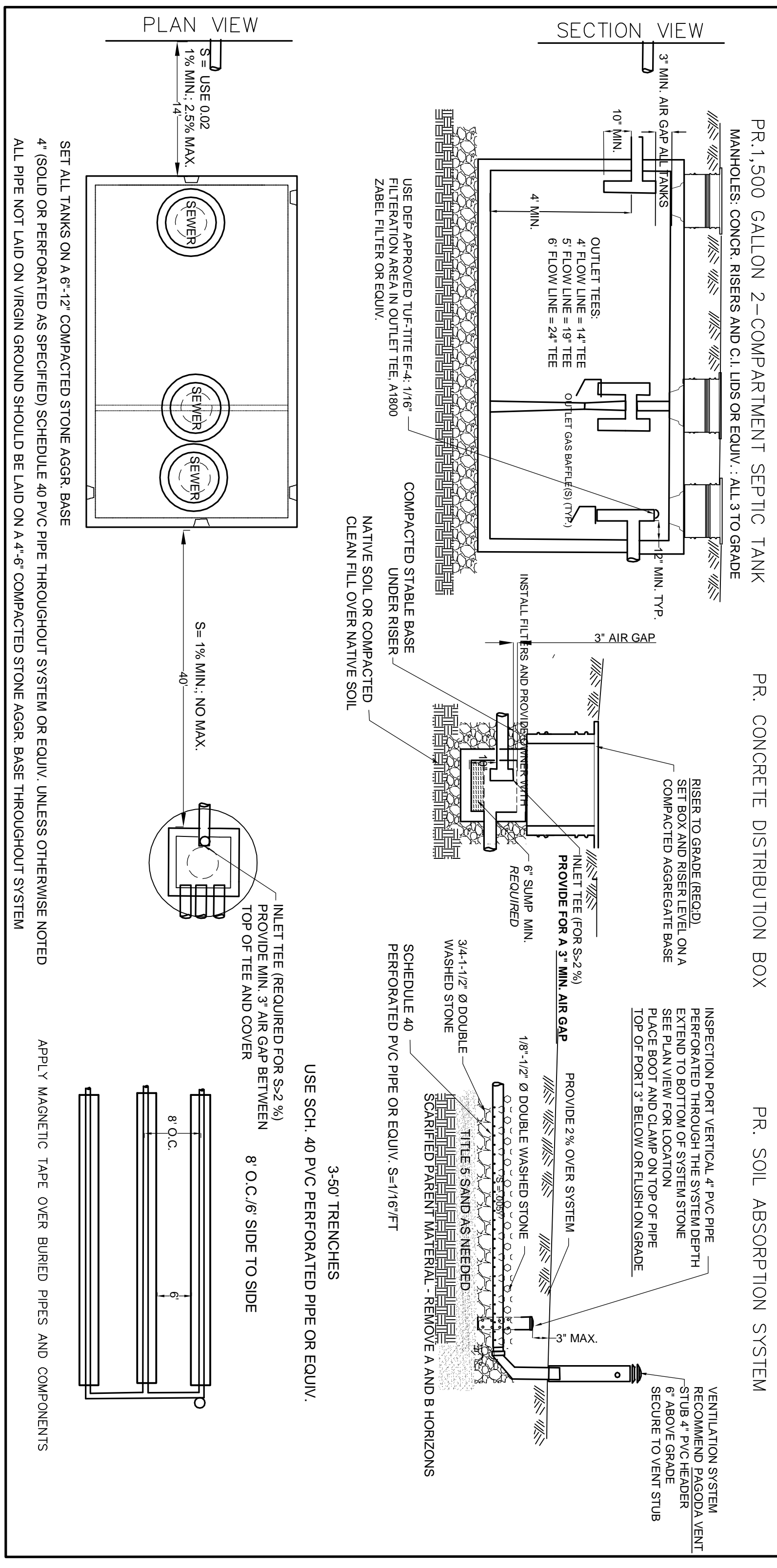


SAS DETAIL



SYSTEM SCHEMATICS



SIZING CALC'S

**HYDRAULIC LOADING RATE**  
 4 Bedrooms @ 110 GPD = 440 GPD  
 This design does not allow for the use of a garbage grinder.  
**SEPTIC TANK SIZE**  
 440 GPD X 20% = 880 gal. USE 1,500 GAL. MIN. TS  
**ON-SITE SYSTEM SIZE DESIGN FACTOR**  
 1.5 MINIMUM DESIGN FACTOR  
**SOIL ABSORPTION SYSTEM**  
 ABERA Req'd: 440 GPD / 0.53 = 830.2 SF MIN.  
 Eff. Area: 50' X 24' X 3TR = 3600 SF  
 SIDE: 50' X 24' X 3TR X 2SIDES = 6000 SF  
 TOTAL = 900 SF

SCHEDULE OF ELEVATIONS

LOCATION	ELEVATION	FIN. GRADE
HOUSE TOC / BF / GF	788.0 / 780.5 / 786.2	
FOUNDATION INVERT OUT	784.89	
SEPTIC TANK INVERT IN	784.6	786.4 MIN.; 788.6 MAX.
SEPTIC TANK INVERT OUT	784.4	
DISTRIBUTION BOX INVERT IN	783.8	785.4 MIN.; 787.6 MAX.
DISTRIBUTION BOX INVERT OUT	783.6	
HIGHEST/LOWEST CONTOURS AT SAS	780.77/78	
DISTRIBUTION LINE INVERT BEG.	783.25	784.5 MIN.; 786.1 MAX.
DISTRIBUTION LINE INVERT END	783.0	
BOTTOM OF STONE	781.0	
EST. SEASONAL HIGH WATER	777.0	
BREAKOUT ELEVATION @ 15'	783.75	

SOIL EVALUATION DATA

DATE: 11-27-19  
 SOIL EVALUATOR: PETER ENGLE SET#4009  
 INSPECTOR: THOMAS PURCELL

TP	TP DH2	TP DH2	TP DH3	TP DH4	PERCOLATION TEST DATA
A SL 0-8	A SL 0-8	A SL 0-8	A SL 0-8	A SL 0-8	DEPTH: #1 36" / #2 20 MP
10YR 3/2 MA-FR	10YR 3/2 MA-FR	10YR 3/2 MA-FR	10YR 3/2 MA-FR	10YR 3/2 MA-FR	FIELD RATE: 15 MP
Bw SL 8-24	Bw SL 8-24	Bw SL 8-24	Bw SL 8-24	Bw SL 8-24	
10YR 4/4 MA-FR	10YR 4/4 MA-FR	10YR 4/4 MA-FR	10YR 4/4 MA-FR	10YR 4/4 MA-FR	
C GR. SL 28-72	C GR. SL 28-72	C GR. SL 28-72	C GR. SL 28-72	C GR. SL 28-72	
2.5Y 5/4 MA-FR	2.5Y 5/4 MA-FR	2.5Y 5/4 MA-FR	2.5Y 5/4 MA-FR	2.5Y 5/4 MA-FR	
WEEPING --	WEEPING --	WEEPING --	WEEPING --	WEEPING --	
STANDING --	STANDING --	STANDING --	STANDING --	STANDING --	
MOTTLES@36"	MOTTLES@36"	MOTTLES@36"	MOTTLES@36"	MOTTLES@36"	DESIGN 20 MP
10YR 58	10YR 58	10YR 58	10YR 58	10YR 58	

GENERAL NOTES

- REGULATIONS**  
 A. This design is in accordance with the latest edition of Commonwealth of Massachusetts regulations 310 CMR (53:000 Title 5, of the State Environmental Code and the requirements of the local Board of Health, unless noted, and is intended specifically for BOH review.  
 B. The contractor is responsible to comply with all inspections and material requirements of Title 5 and the local Board of Health's license.  
 C. All work shall be done in the direction from the Engineer and approval of the local BOH.
- CHANGES**  
 A. All changes from this plan shall be made only with the direction from the Engineer and approval of the local BOH.
- EXCAVATION & BACKFILLING**  
 A. The Design Engineer is to be notified of any discrepancies.  
 B. In excavation of the disposal system distribution area care must be taken to not compact or stress the bottom or sides of the excavation.  
 C. All work should be done in favorable weather conditions, but in NO case shall fill or stone be placed on wet, saturated or frozen soils.  
 D. It is the responsibility of the contractor to contact DIG SAFE before operating machinery on this property.
- GENERAL NOTES**  
 A. All known wells and water courses within 200' of the septic system are shown or noted.  
 B. The Design Engineer is to be notified of any discrepancies.
- CERTIFICATE OF COMPLIANCE**  
 A. The Contractor shall notify the Engineer and the local Board of Health to coordinate the following inspections (unless otherwise notified):  
 1) At completion of SAS excavation for bottom inspection. 2) At completion of the SAS and component installation. All distribution pipes must be backfilled to the crown of the pipe, aggregate tape in place and fill the distribution box with water, or have 5 gallons of water readily available to complete the flow test. 3) After backfilling system and components for final grade, loam and stabilization.
- MAINTENANCE OWNER NOTES**  
 A. Septic tanks should be inspected yearly and cleaned when solids level is more than one (1) foot in depth, but as a minimum once every 2 years unless use of an alternative technology or other system requires additional maintenance.  
 B. The use of toxic, hazardous or flammable materials is not permitted to be disposed of into this system. Disposal of sanitary waste only is permitted. Disposal of grease, garbage and other non-sanitary and insoluble products to the septic system is not allowed. Backwash from water softening or filtering devices and hot tubs are prohibited to discharge into this system. This system has NOT been designed for in-home businesses or activities that produce flows in excess of DESIGN FLOWS or wastewater not characteristic of typical single family home sanitary discharge.
- WARRENTY**  
 A. The Design Engineers warrant that the system is designed according to Title 5 and Local Board of Health regulations unless otherwise noted, which would require a variance or local upgrade approval. The intent of this plan is for the septic system design proposal only (which may or may not include the siting of a well). No certification is made with regard to zoning, property line certification or structure placement.  
 Owner is responsible for all permit acquisitions and variance requests.

**PROPOSED SEPTIC SYSTEM DESIGN**  
 CLEAR WATER ENVIRONMENTAL  
 SEPTIC SYSTEM DESIGN | LAND PLANNING

APPLICANT: KELSEY & JASON FOSKETT  
 52 GILLESPIE ROAD  
 CHARLTON, MA 01507

CONTACT: JASON OR KELSEY FOSKETT  
 508-735-8753

RESIDENTIAL 4 BEDROOM DWELLING  
 BUILDERS LOT 14  
 BOUCHER DRIVE  
 CHARLTON, MASSACHUSETTS  
 PERMIT #2019-58

ELIZABETH DUPRE, RSN#1210  
 O (888) 439-0032  
 M (508) 868-0838  
 info@clearwater-env.com

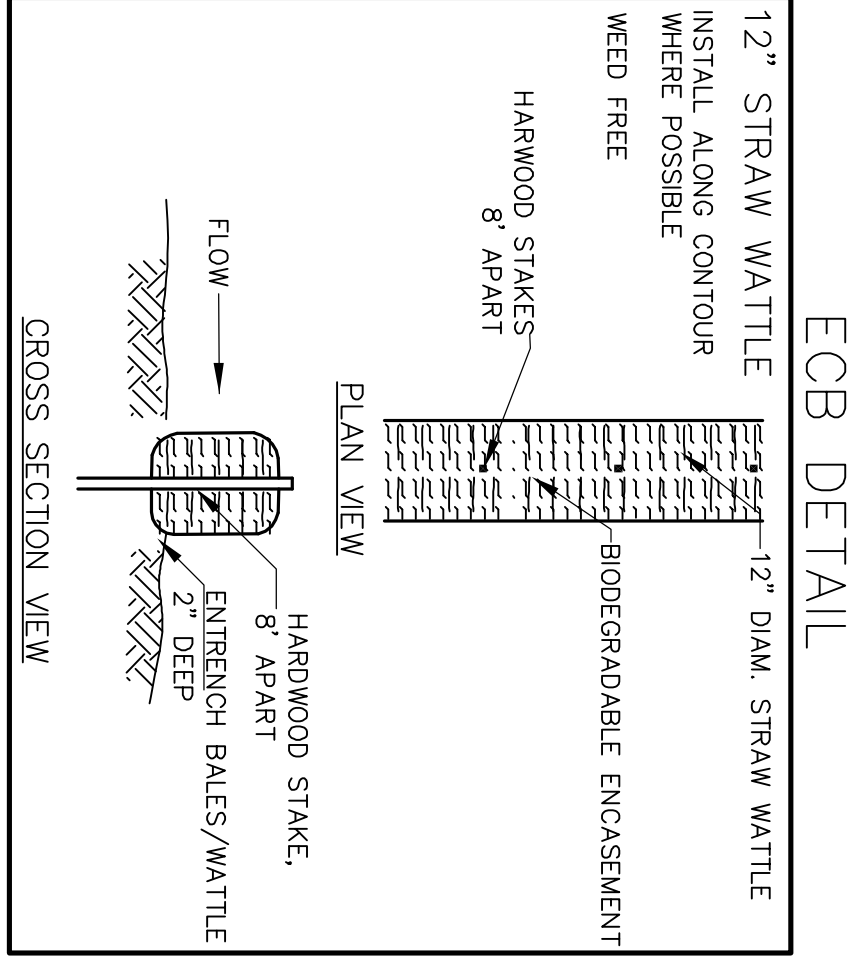
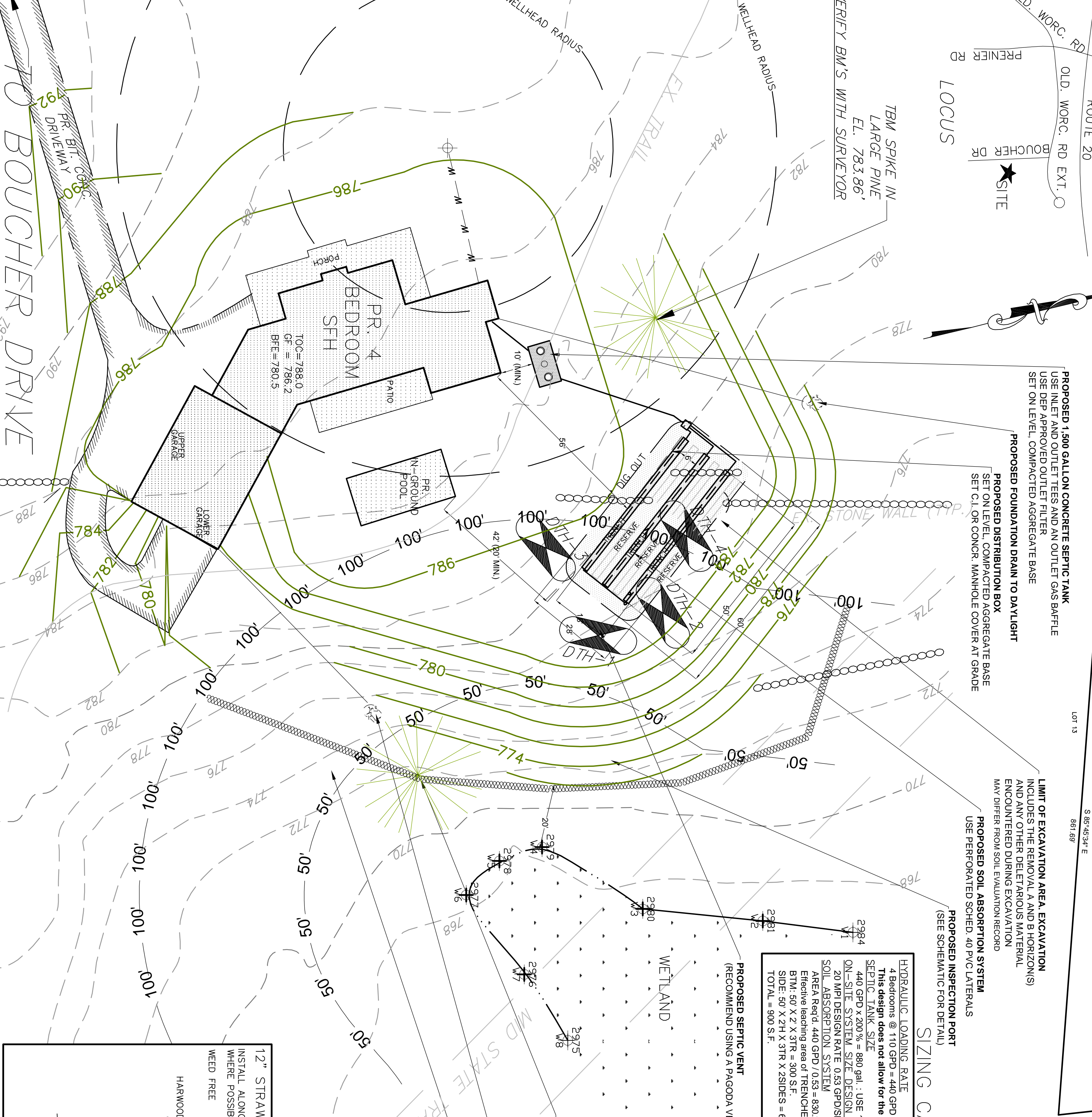
DATE: JUNE 23, 2020

SCALE 1" = 20'

DRAWN BY: CHECKED BY: APPROVED BY:  
 EDSD ED ED

FROM WETLAND PER CC COMMENT

MAIL TO:  
 87 Bartlett Road  
 Kittery Point  
 Maine 03905



BLDR LOT 14 BOUCHER DRIVE 1 OF 1