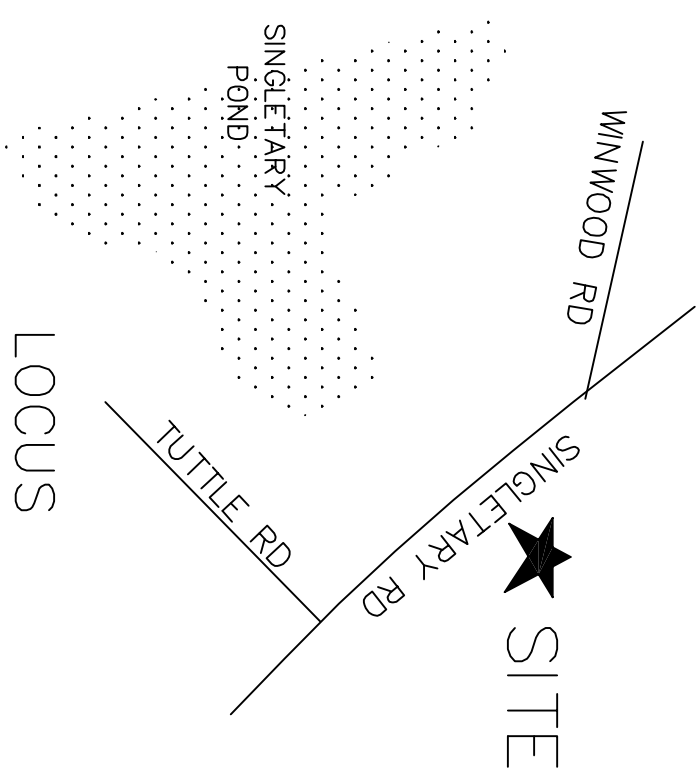
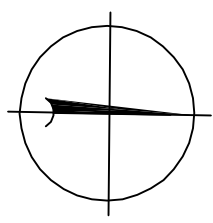


SUTTON



LOT SIZE
14,408± S.F.

BENCHMARK
BOTTOM OF SIDING
EL. 100.23 (ASSUMED)

PROPOSED PROPRAL ENJOINT
INV IN (AT EX. SEWER MAIN OUT) = 97.0
INV OUT = 95.4

PROPOSED 1,500 GALLON CONCRETE SEPTIC TANK
USE OUTLETTERS AND OUTLET GAS BARFIE
SET ON LEVEL, COMPACTED AGGREGATE BASE
CAST IRON OR CONCR. MANHOLE COVER
OVER INLET AND OUTLET TO GRADE

PROPOSED DISTRIBUTION BOX
SET ON LEVEL, COMPACTED AGGREGATE BASE
SET C.I. OR CONCR. MANHOLE COVER AT GRADE

LIMIT OF EXCAVATION AREA, EXCAVATION
INCLUDES THE EXCAVATION OF ALL
AND ENCOUNTERED DURING EXCAVATION
MAY DIFFER FROM SOIL EVALUATION RECORD

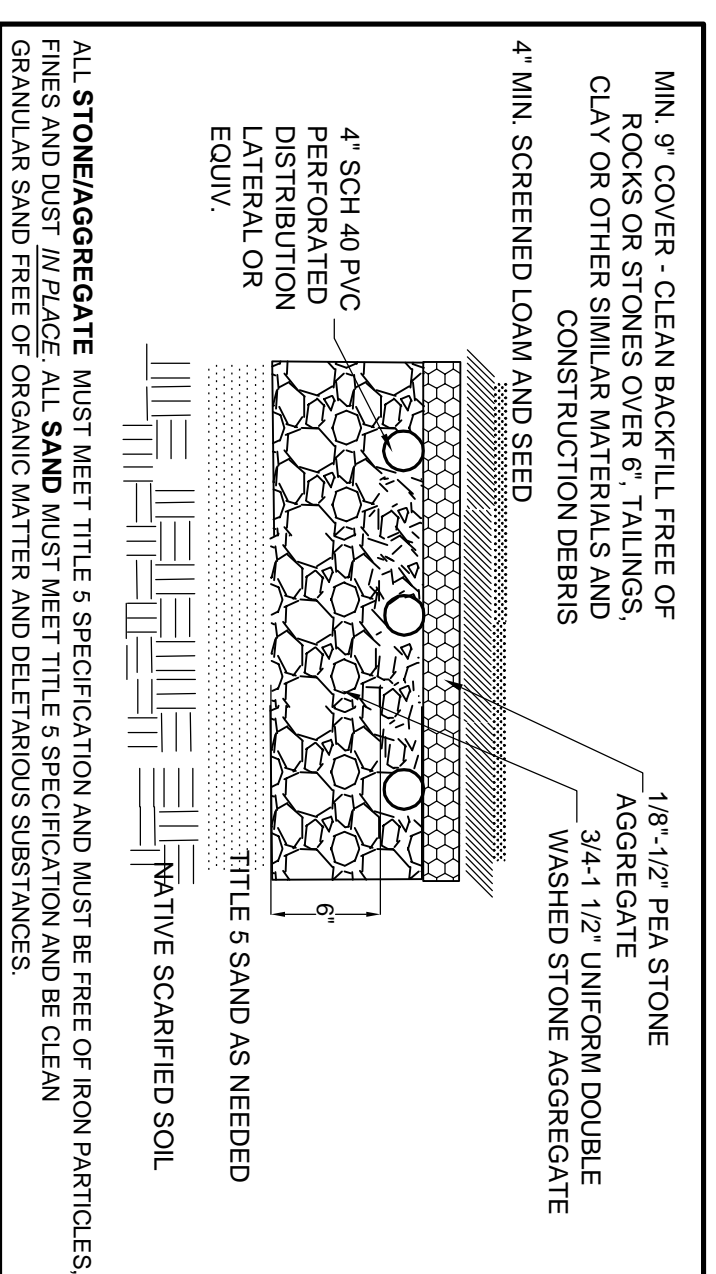
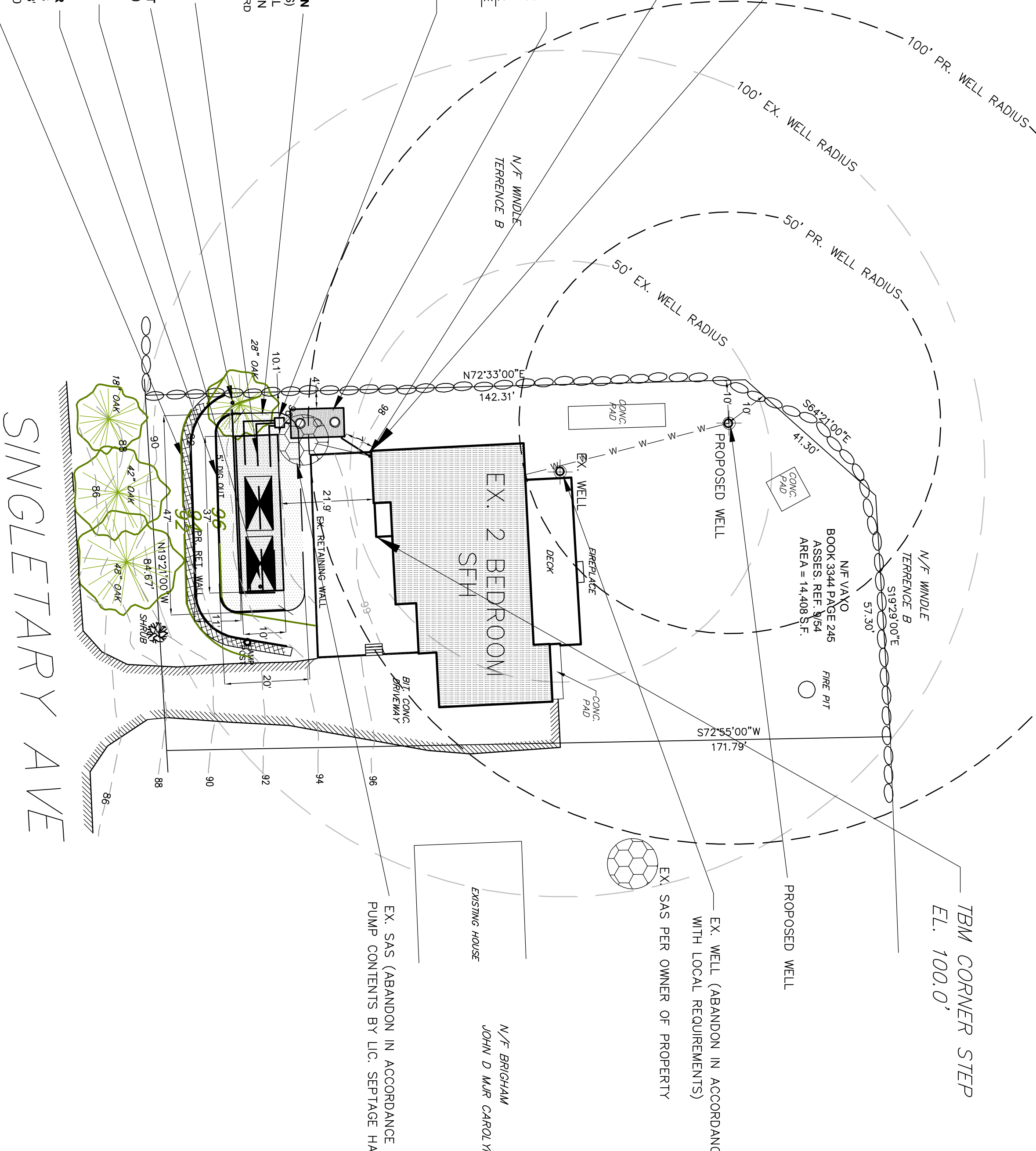
PROPOSED SOIL ABSORPTION SYSTEM
USE PREPARED SCHEDULE 40 PVC LATERALS
(RECOMMEND USING A PACQUA VENT)

PROPOSED SEPTIC VENT
PROPOSED INSPECTION PORT
(SEE SCHEMATIC FOR DETAIL)

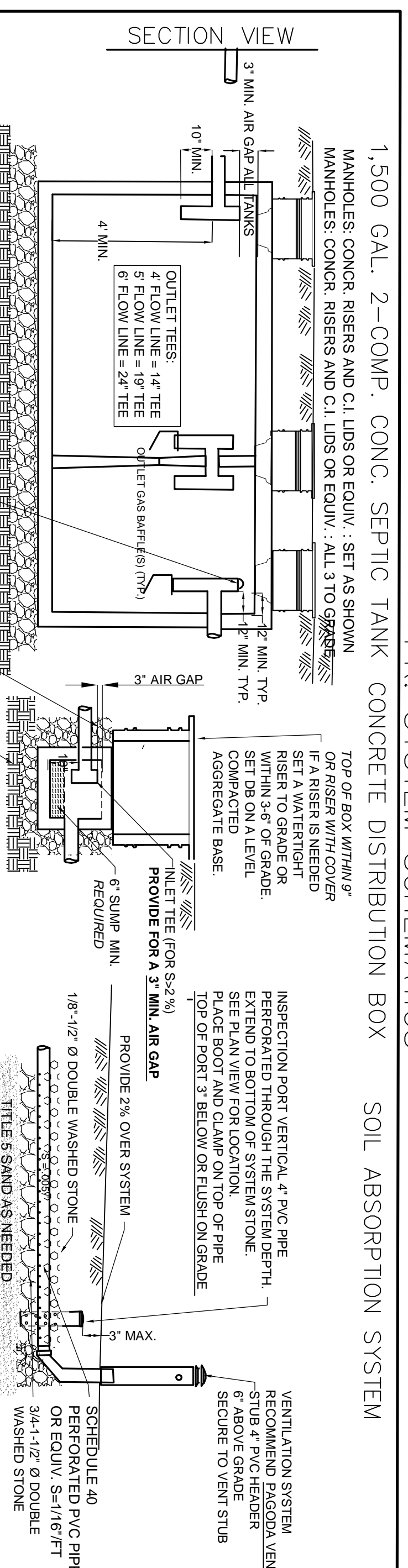
PROPOSED BARRIER
40 MIL POLYVINYL BARRIER / BEGIN 3'x3'
TOP EL. (B.O.) = 95.18
FIN. GRADE EL. 96.0

PROPOSED 2H REMAINING WALL
TOP EL. 94. BOTTOM EL. 92
WITH 40 MIL POLYVINYL BARRIER USE
INTERLOCKING BLOCK, STONE OR EQUIV.

SINGLETARY AVE



SAS DETAIL



PR. SYSTEM SCHEMATICS

SCHEDULE OF ELEVATIONS

LOCATION	ELEVATION	FIN. GRADE
FOUNDATION INVERT OUT	EX. 97.05	VERIFY BEFORE SETTING SEPTIC TANK
SEPTIC TANK INVERT IN	95.3	97.1 MIN.
SEPTIC TANK INVERT OUT	95.1	99.3 MAX.
PUMP CHAMBER INVERT IN	---	---
PUMP CHAMBER INVERT OUT	---	---
DISTRIBUTION BOX INVERT IN	95.0	96.5 MIN.
DISTRIBUTION BOX INVERT OUT	94.8	98.8 MAX.
HIGHEST CONTOUR AT SAS	96.0	---
INVERT BEGINNING	94.68	---
INVERT END	94.5	96.0 MIN.
BOTTOM OF SAS	94.0	98.1 MAX.
ESTIMATED SEASONAL HIGH WATER	91.0	---
BREAKOUT AT 15'	95.18	---

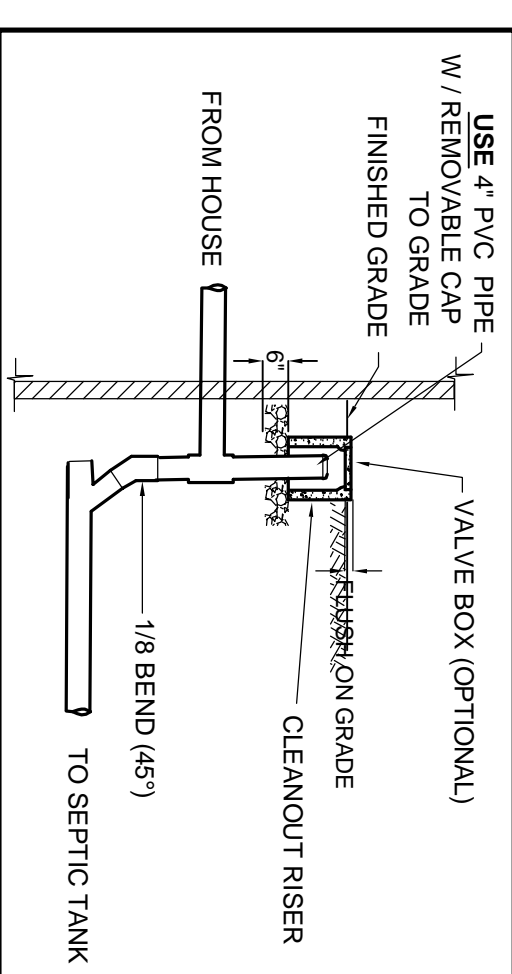
GENERAL NOTES

- REGULATIONS**
1. This design is in accordance with the latest edition of Commonwealth of Massachusetts regulations 310 CMR 15.000 Title 5, of the State Environmental Code and the requirements of the local Board of Health, unless noted.
ii. The contractor is responsible to comply with all inspections and material requirements of Title 5 and have a valid installer's license.
- CHANGES**
i. Variation from this plan shall be made only with the direction from the Engineer and approval of the local BOH.
ii. The Design Engineer is to be notified of any discrepancies.
- EXCAVATION & BACKFILLING**
i. In excavation of the disposal system distribution area care must be taken to not compact or smear the bottom or sides of the excavation.
ii. 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.
iii. It is the responsibility of the contractor to contact DIG SAFE before operating machinery on this property.
- GENERAL NOTES**
All known wells and wetlands and water courses within 100' of the septic system are shown or noted.
- CERTIFICATE OF COMPLIANCE**
The Contractor shall notify the Engineer and the local Board of Health to coordinate the following inspections (unless otherwise notified):
1) At completion of the SAS excavation 2) completion of component installation. All pipes and components must be VISIBLE, magnetic tape in place and 3) after backfilling system and components with final grade, loam and stabilization complete.
- WARRANTY**
The Design Engineers warranty is 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 wall). No certification is made with regard to zoning, property line, structure placement or location or retaining walls. Owner is responsible for all permit and approval acquisitions. RLS or PE requirements or certifications and variance or local upgrade requests.

SIZING CALC'S

Hydraulic Loading 2 BEDROOMS @ 110 GPD = 220 GPD
This design does not allow for the use of a garbage grinder
OR water filtration backwash discharge connection.
SEPTIC TANK SIZE
NO FIELD RATE = 440 gal. MIN.
Leaching Area
NO FIELD RATE = 220 GPD
TOWN MIN. 0.6
2200/0.6 = 367 SF
AREA PROVIDED = 370 SF
MIN FLOW RATE PER STATE = 220 GPD
LOADING PROVIDED = 222 GPD
BOTTOM ONLY BED 37' x 10'

DROP WYE DETAIL



CERTIFIED SOIL TESTING RESULTS

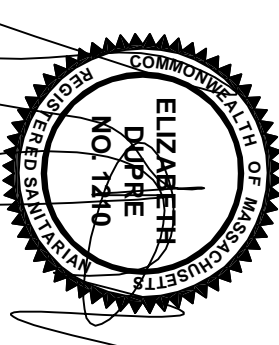
DATE: 4-14-20
SOIL EVALUATOR: LIZ DUPRE
AGENT: STEVE DONATELLI
OPERATOR: JEFF HELGENSEN

TEST PIT #1	TEST PIT #2
GR. EL. = 91.5' +/-	GR. EL. = 92.5' +/-
FILL 0-35	FILL 0-35
Ab 35-40	Ab 35-40
FINE SANDY LOAM	FINE SANDY LOAM
10YR 3/2	10YR 3/2
ABK-FR	ABK-FR
Bw 40-50	Bw 40-50
FINE SANDY LOAM	FINE SANDY LOAM
7.5YR 4/6	7.5YR 4/6
ABK-FR	ABK-FR
C 50-100	C 50-100
LOAMY SAND	LOAMY SAND
2.5Y 4/4	2.5Y 4/4
ABK-FR	ABK-FR
WEET 60"	WEET 60"
MIS# 60 2.5Y 6/1	MIS# 60 2.5Y 6/1

PERCOLATION TEST DATA
LIZ DUPRE, CERTIFIED MA SOIL EVALUATOR #S22256
N/A W/ FIELD RATE
LOCAL TANK 0.66 57.0/5E

PROPOSED SEPTIC SYSTEM REPAIR

EX. 2 BEDROOM SFH
ASSESS. REF. 9/54
88 SINGLETARY ROAD
SUTTON, MASSACHUSETTS



APPLICANT: MARK YAHO
76 DODGE HILL RD
SUTTON, MA 01590
CONTACT: MARK YAHO
774-420-9174

CLEAR WATER ENVIRONMENTAL
SEPTIC SYSTEM DESIGN | LAND PLANNING
Serving Greater MA Since 1999

87 Bartlett Road
Kittery Point
Maine 03905

O (888) 439-0032
C (508) 868-0838
info@clearwater-env.com

DATE: MAY 14, 2020

SCALE 1" = 20'
UNLESS OTHERWISE NOTED

DRAWN BY: SDD/ED
CHECKED BY: SDD/ED
APPROVED BY: ED

DATE REVISION
5-28-20 PER BOTH COMMENTS

88 SINGLETARY RD 01590
SHEET: 1 OF 1

LOCAL UPGRADE APPROVAL REQUESTS
ALL SANS WITH 1' REDUCTION TO SHOW FOR A 3'
SEPARATION
2' S.T. 4' TO PROPERTY LINE & 7' TO FOUNDATION
THIS PROPERTY REQUIRES A 2-BEDROOM DEED RESTRICTION.

ADDITIONAL NOTES:
THERE ARE NO SEPTIC SYSTEMS WITHIN 100' OF PROPOSED WELL
WATER SOFTENERS MAY NOT BE CONNECTED TO THE SEPTIC TANK.
PROJECT DOES NOT FALL WITHIN A FLOOD HAZARD ZONE.