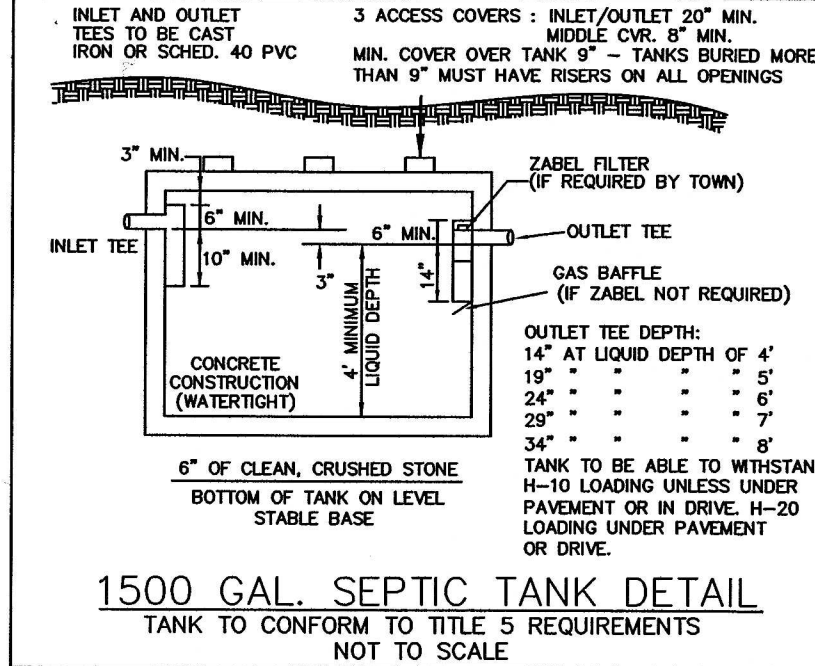
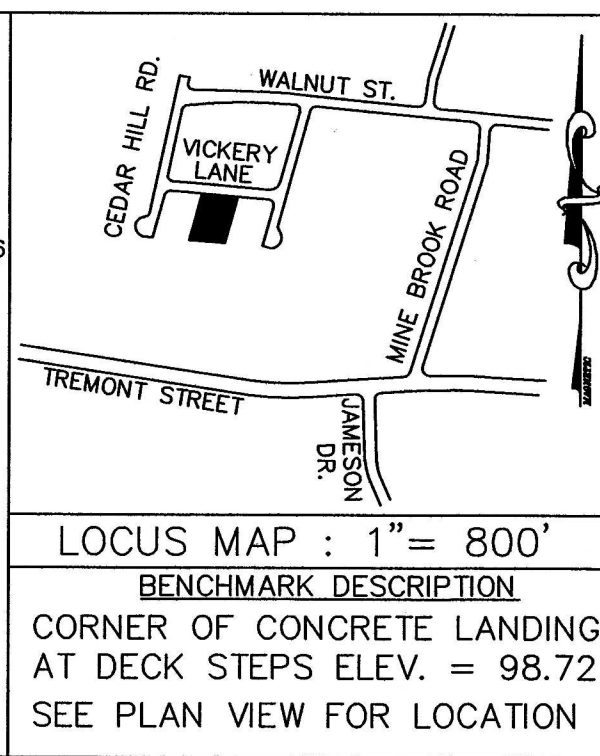
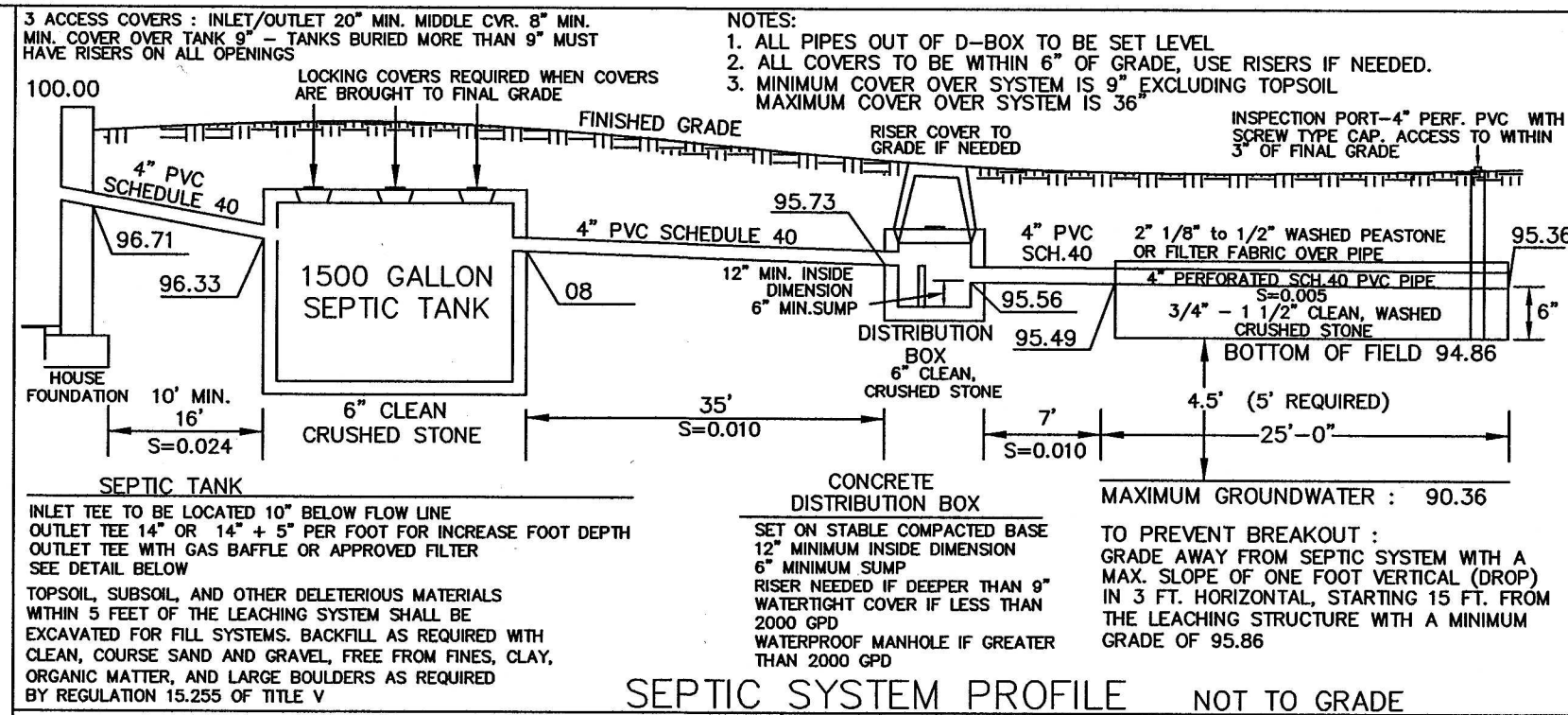
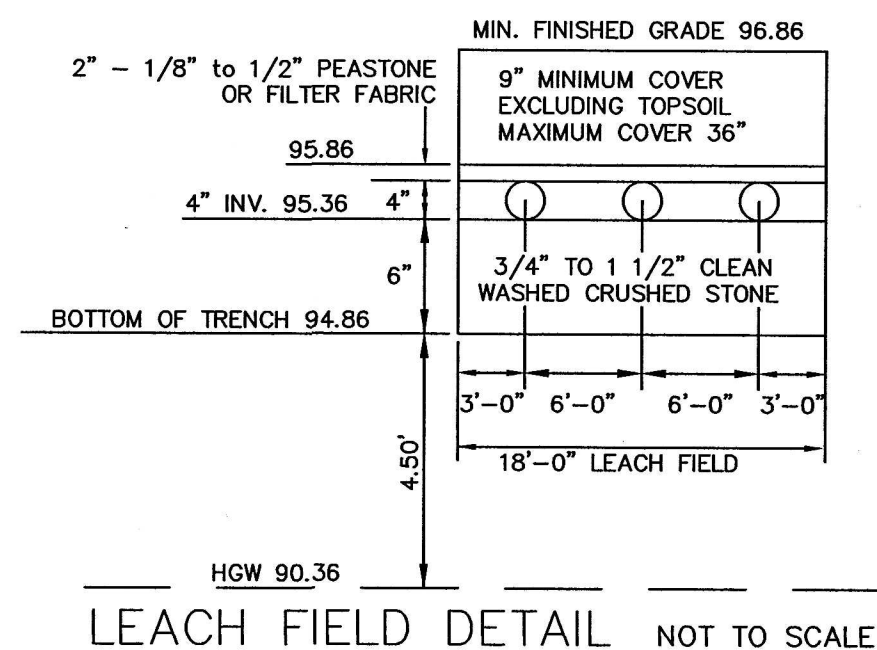


LOCAL UP-GRADES ARE REQUESTED FOR THE FOLLOWING :

310 CMR 15.212 DEPTH TO GROUNDWATER
5' IN SOILS WITH PERC RATE OF LESS THAN 2 MPI
> 2 MPI FOUND ON SITE
4.5' OVER HIGH GROUNDWATER = 0.5' VARIANCE

TOWN OF REHOBOTH WELL REGULATIONS
3.1.2 PERCOLATION RATE LESS THAN 3 MPI
MINIMUM DISTANCE FROM DRILLED WELL TO SEPTIC
150' REQUIRED / 106.1' REQUESTED



SEPTIC SYSTEM PROFILE NOT TO GRADE

TO PREVENT BREAKOUT : GRADE AWAY FROM SEPTIC SYSTEM WITH A MAX. SLOPE OF ONE FOOT VERTICAL (DROP) IN 3 FT. HORIZONTAL, STARTING 15 FT. FROM THE LEACHING STRUCTURE WITH A MINIMUM GRADE OF 95.86

SCHEDULE OF ELEVATIONS

TOP OF FOUNDATION ELEVATION	100.00
BASEMENT FLOOR ELEVATION	93.46
EXISTING INV. AT HOUSE FOUNDATION	96.71
INV. INTO SEPTIC TANK	96.33
INV. OUT OF SEPTIC TANK	96.08
INV. INTO D-BOX	95.73
INV. OUT OF D-BOX	95.56
INV. AT BEGINNING OF LEACH FIELD	95.49
INV. AT END OF LEACH FIELD	95.36
INV. AT BASE OF LEACH FIELD	94.86
MAXIMUM GROUNDWATER FROM TH 3	90.36

SOIL TESTS BY RIM ENGINEERING CO., INC. JOHN CHARTIER SE 14116
TOWN WITNESS : KARL DROWN HEALTH INSPECTOR

T.H.1 03-30-21 ELEVATION= 97.31	T.H.2 03-30-21 ELEVATION= 97.68	T.H.3 03-30-21 ELEVATION= 97.19
0' HOR.Ap SL 10YR 3/2 VERY FRIABLE, GRANULAR 10"	0' HOR.Ap SL 10YR 3/2 VERY FRIABLE, GRANULAR 12"	0' HOR.Ap SL 10YR 3/2 VERY FRIABLE, GRANULAR 12"
2' HOR.Bw LS 10YR 6/8 FRIABLE, MASSIVE, ROOTS 22"	2' HOR.Bw LS 10YR 6/8 FRIABLE, MASSIVE, ROOTS 22"	2' HOR.Bw LS 10YR 6/8 FRIABLE, MASSIVE, ROOTS 22"
4' HOR.C1 CS 2.5Y 6/3 25 % GRAVEL 10% COBBLES, STONES LOOSE SINGLE GRAIN 75"	4' HOR.C1 CS 2.5Y 6/3 25 % GRAVEL 10% COBBLES, STONES LOOSE SINGLE GRAIN 75"	4' HOR.C1 CS 2.5Y 6/3 25 % GRAVEL 10% COBBLES, STONES LOOSE SINGLE GRAIN 80"
6' HOR.C2 MS 2.5Y 6/2 5 % GRAVEL LOOSE SINGLE GRAIN 92"	6' HOR.C2 MS 2.5Y 6/2 5 % GRAVEL LOOSE SINGLE GRAIN 103"	6' HOR.C2 MS 2.5Y 6/2 5 % GRAVEL LOOSE SINGLE GRAIN 103"
8' HOR.C3 CS 2.5Y 5/4 25 % GRAVEL LOOSE SINGLE GRAIN 118"	8' HOR.C3 CS 2.5Y 5/4 25 % GRAVEL LOOSE SINGLE GRAIN 117"	8' HOR.C3 CS 2.5Y 5/4 25 % GRAVEL LOOSE SINGLE GRAIN 117"
10' PERC SHELF : 24" - 42" PERC RATE : > 2 MPI WATER WEEPING AT : NONE FOUND WATER PONDING AT : NONE FOUND MOTTILING FOUND : 103" (ELEV.88.73)	10' PERC SHELF : 28" - 46" PERC RATE : > 2 MPI WATER WEEPING AT : NONE FOUND WATER PONDING AT : NONE FOUND MOTTILING FOUND : 92" (ELEV. 90.01)	12' WATER WEEPING AT : NONE FOUND WATER PONDING AT : NONE FOUND MOTTILING FOUND : 82" (ELEV. 90.36)

ZONING RES. / AGRI.

ASSESSOR'S INFO. :
MAP 69 PARCEL 67

LEGEND

- WF 1 WETLAND LINE
- WF 2 WETLAND LINE
- WF 3 WETLAND LINE
- 100 EXISTING CONTOUR
- (100) PROPOSED CONTOUR
- HYDRANT
- WG WATER GATE
- CB CATCH BASIN
- DMH DRAIN MANHOLE
- TH 1 99.96 TEST HOLE

DESIGN CALCULATIONS

3 BEDROOM x 110 GL./BEDROOM = 330 G.P.D.
NO GARBAGE DISPOSAL
TOTAL DAILY VOLUME = 330 G.P.D.
SEPTIC TANK 1500 GL. TWO CHAMBERS
CLASS 1 2 MPI SOIL ABSORPTION RATE 0.74
330 / 0.74 = 446 S.F. SAS REQUIRED
FIELD CONFIGURATION : 0.5' D. x 18' W. x 25' L.
BOTTOM FIELD 18' W. x 25' L. = 450 S.F.
450 x 0.74 = 333 GPD

330 G.P.D. REQUIRED / 333 G.P.D. PROVIDED
446 S.F. SAS REQUIRED / 450 S.F. PROVIDED

NOTES :

ALL COMPONENTS OF THE PROPOSED S.A.S. MUST BE MARKED WITH MAGNETIC MARKING TAPE PRIOR TO BACKFILL.

ANY COMPONENTS OF THE EXISTING S.A.S. IN THE AREA OF THE PROPOSED S.A.S. ARE TO BE REMOVED

PROPOSED S.A.S. IS TO HAVE ONE INSPECTION PORT

THIS ISTE IS LOCATED IN A GROUNDWATER PROTECTION DISTRICT

THERE ARE NO PRIVATE WELLS WITHIN 100 FEET, AND NO PUBLIC WELLS WITHIN 400 FEET OF THE PROPOSED SAS

UPGRADE
SEWAGE DISPOSAL PLAN
FOR
NO.5 VICKERY LANE
IN
REHOBOTH, MA.
SCALE : 1"=20'
APRIL 13, 2021

REVISIONS

I CERTIFY THAT THE SEWAGE DISPOSAL FACILITY IS DESIGNED IN ACCORDANCE WITH TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND THE REGULATIONS OF THE LOCAL BOARD OF HEALTH.

DESIGNED BY: C.C.
DRAFTED BY: C.C.
APPROVED BY: R.I.M.

APPLICANT :
CASEY HOLT
5 VICKERY LANE
REHOBOTH, MA. 02769

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