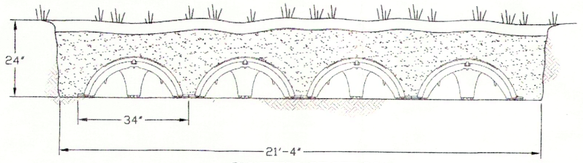
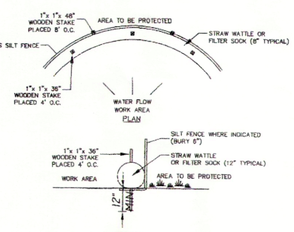


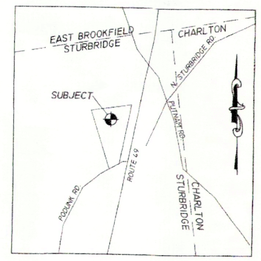
SYSTEM SECTION

SCALE = NONE



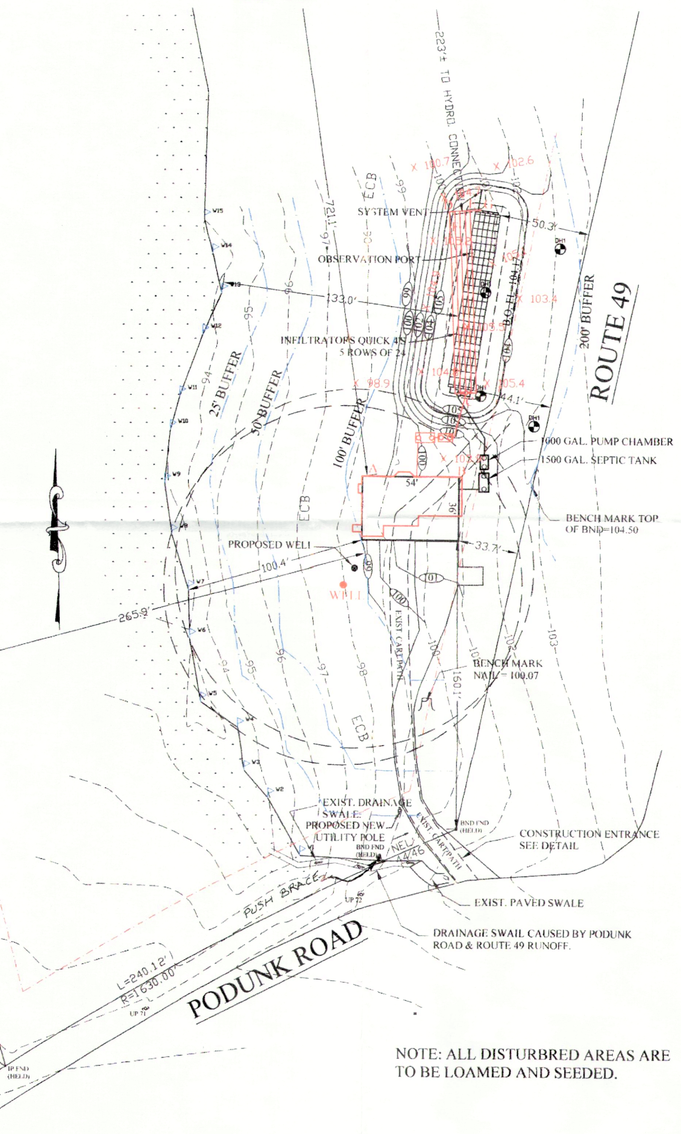
EROSION CONTROL BARRIER (ECB)

SCALE: N.T.S.

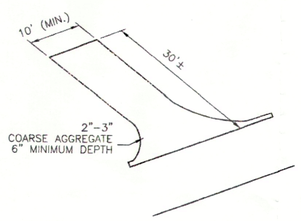


LOT LOCUS

SCALE: NONE

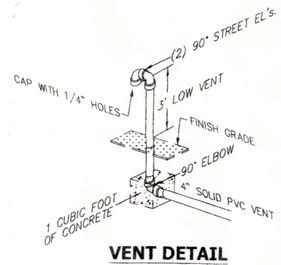


NOTE: ALL DISTURBRED AREAS ARE TO BE LOAMED AND SEEDED.



CRUSHED STONE, TRACK PAD CONSTRUCTION ENTRANCE

NOT TO SCALE



VENT DETAIL

SCALE = NONE

"As-Built" SWINGER CHART

POINT	DESC.	HSE CORNER	
		A	B
C	DIST. BOX	74.2'	46.3'
D	LINE END	154.9'	147.1'
E	LINE END	159.3'	147.4'
F	OBS. PORT	148.9'	138.4'
G	SYSTEM VENT	161.9'	148.0'

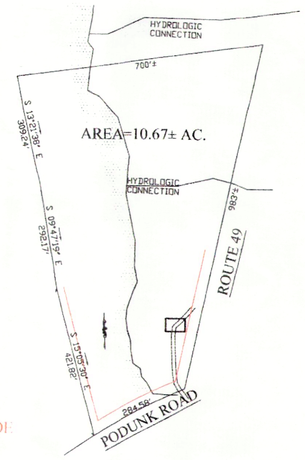
INSTALLER: 13 GABLES INC.

BOTTOM INSPECTION: 12/12/23

COMPONENT INSPECTION: 12/21/23

FINAL INSPECTION: 1/12/24

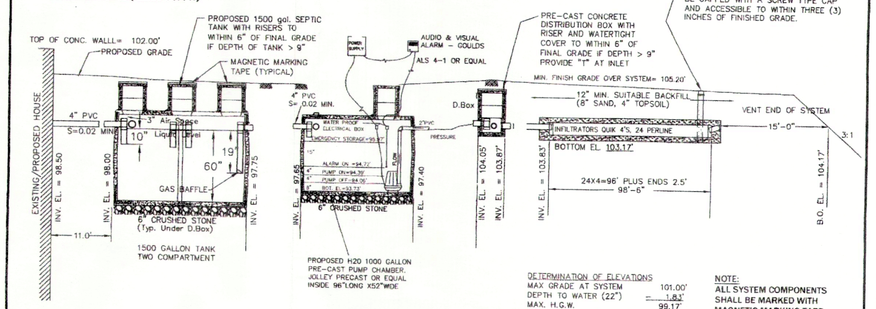
X 100.0 = DENOTES AS-BUILT SPOT GRADE



PLOT PLAN

SCALE: 1"=200'

DOSING INFORMATION:
DOSE 4 TIMES DAILY
REQUIRED DOSING VOLUME = 330/4= 82.5 GALS (11.0 CU.FT.)
EMERGENCY STORAGE=330 GALS (44.11 CU.FT.)
SUMP= 171 GALS (22.86 CU. FT.)



DETERMINATION OF ELEVATIONS

MAX GRADE AT SYSTEM	101.00'
DEPTH TO WATER (22")	- 1.83'
MAX. H.G.W.	99.17'
REQ'D. SEPARATION	+ 4.00'
MINIMUM BOTTOM ELEV.	103.17

NOTE:
ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE PLACED AT A DEPTH OF 1' BELOW THE FINISHED GRADE.

SCHEDULE OF ELEVATIONS

DESCRIPTION	PROPOSED	AS-BUILT
TOP OF FOUNDATION	102.00'	104.72'
INVERT AT FOUNDATION	98.50'	102.83'
INVERT IN SEPTIC TANK	98.00'	102.39'
INVERT OUT SEPTIC TANK	97.75'	102.15'
INVERT IN PUMP CHAMBER	96.65'	102.03'
INVERT OUT PUMP CHAMBER	96.40'	101.65'
INVERT IN DBOX	104.05'	104.33'
INVERT OUT DBOX	103.87'	104.07'
INVERT BEGINING	103.83'	103.94'
INVERT END	103.83'	103.90'

------ 100 ------ DENOTES EXISTING CONTOUR
——— (100) ——— DENOTES PROPOSED CONTOUR

PERCOLATION TEST AND DEEP HOLE OBSERVATIONS

TEST PERFORMED AS PER TITLE 5.
DATE OF TEST: 7/21/20
TEST TAKEN 46"&36"± BELOW EXISTING GRADE.
RESULT: 45 & 8 MINUTES PER INCH
DESIGNED AT 50 MINUTES PER INCH.
PERFORMED BY: PETER C. ENGLE,P.E.
WITNESSED BY: KENNETH B. LACEY

OBSERVATION PITS

PIT DH1 EL=X

	Depth 0"-8"	Horizon Ap	Soil Texture S.L.	Color 10YR 3/2	Mottles None	Remarks
52	4-20"	Bw	S.L.	10YR 4/4	18"	MASSIVE, FIRM
	20-94"	C	S.L.	7.5YR 4/4		MASSIVE, VERY FIRM

PIT DH2 EL=X

	Depth 0"-8"	Horizon Ap	Soil Texture S.L.	Color 10YR 3/2	Mottles None	Remarks
52	4-26"	Bw	S.L.	10YR 4/4	22"	MASSIVE, FIRM
	26-96"	C	S.L.	7.5YR 4/4		MASSIVE, VERY FIRM

PIT DH3 EL=X'

	Depth 0"-8"	Horizon Ap	Soil Texture S.L.	Color 10YR 3/2	Mottles None	Remarks
52	6-24"	Bw	S.L.	10YR 4/4	None	
	24-48"	C1	S.L.	2.5YR 5/4	30"	MASSIVE, FIRM
	48-96"	C2	S.L.	2.5YR 4/4		MASSIVE, FIRM

PIT DH4 EL=X

	Depth 0"-8"	Horizon Ap	Soil Texture S.L.	Color 10YR 3/2	Mottles None	Remarks
52	4-24"	Bw	S.L.	10YR 4/4	None	
	24-42"	C1	S.L.	2.5YR 5/4	30"	MASSIVE, FIRM
	42-84"	C2	S.L.	2.5YR 4/4		MASSIVE, FIRM

COMMONWEALTH OF MASSACHUSETTS
LEONARD STANLEY JALBERT
No. 25300
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Leonard S. Jalbert

DESIGN CRITERIA:

DESIGN FLOW FOR # BEDROOMS
4 Bedrooms x 110 gal./bedroom/day= 440 gallons/day

THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL. THE USE OF GARBAGE DISPOSALS IS NOT RECOMMENDED WITH SUBSURFACE DISPOSAL FACILITIES.

SEPTIC TANK CAPACITY: 1500 GALLON

DESIGN CALCULATIONS

SOIL CLASSIFICATION: CLASS II
LTAR: 0.20

SQUARE FOOTAGE REQUIRED:
440 GPD/0.20 GPD/SF=2200 S.F.

LEACHING CAPACITY PROVIDED:
120 CHAMBERS@ 4' X 4.72 SF/LF=2,265.6 S.F.
2,265.6 S.F. X .20 GPD/SF= 453 GPD

GENERAL NOTES

1. ALL WORK TO BE CONCEALED MUST BE INSPECTED BY THE BOARD OF HEALTH OR ITS AGENT PRIOR TO BEING BACKFILLED.
2. THE BUILDING SEWER (THE PIPE FROM 10' OUTSIDE THE BUILDING TO THE SEPTIC TANK) MUST BE CONSTRUCTED OF SCHEDULE 40 PVC PIPE AND MUST BE WATER-TIGHT.
3. SEPTIC TANK AND DISTRIBUTION BOX TO BE PRE-CAST CONCRETE AS PER TITLE 5.
4. SEPTIC TANK AND D.BOX MUST BE SET ON A LEVEL STABLE BASE AND MUST BE WATER TIGHT.
5. THE FINISH GRADE ABOVE AND ADJACENT TO THE FIELD SHALL SLOPE AT LEAST 2% TO PREVENT THE ACCUMULATION OF SURFACE WATER.
6. FILL MATERIAL REQUIRED SHALL CONSIST OF CLEAN GRANULAR SAND FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT CLASSES OF MATERIALS SHALL NOT BE USED. A SEIVE ANALYSIS SHALL BE PERFORMED IN ACCORDANCE WITH 310 CMR 15.255 (3).
7. STONE SHALL CONSIST OF DOUBLE-WASHED STONE AND SHALL BE FREE OF IRON, FINES AND DUST IN PLACE.
8. ALL DISTURBED AREAS TO BE LOAMED (3" MIN.), FINE RAKED AND SEEDED.
9. ALL WELLS WITHIN 200' OF THE PROPOSED SYSTEM ARE SHOWN OR REFERRED TO BY NOTATION.
10. ALL WETLANDS WITHIN 100' OF THE CONSTRUCTION ARE SHOWN,
11. OFFSETS ARE NOT TO BE USED FOR THE REPRODUCTION OF PROPERTY LINES.
12. THE PROPOSED WELL IS NOT WITHIN 100' OF ANY KNOWN LEACHING FACILITIES. (NOT APPLICABLE - EXISTING WELL).
13. REMOVE TOPSOIL, PEAT AND OTHER IMPERVIOUS MATERIALS FROM ALL AREAS BENEATH THE LEACH FIELD AND FOR A DISTANCE OF 5' THEREFROM (AS SHOWN) AND REPLACE WITH FILL MATERIAL AS SPECIFIED NOTE 6 COMPACTED IN 6" LIFTS TO AN ELEVATION EQUAL TO THE TOP OF PEA STONE WITHIN THE SYSTEM.

ZONING: RURAL RESIDENTIAL

LOT SIZE	REQ'D.	PLAN
AREA:	1 AC.	10.67 AC
FRONTAGE:	150'	240'
SETBACKS		
STREET:	30'	160.1'
SIDE LINE:	20'	33.7'
REAR:	20'	721.1'

F.I.R.M. REFERENCE

COMMUNITY NO: 25027C
PANEL NO.: 0763E
DATE: 7/4/2011

THE DESIGN SHOWN HEREON DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE.

SCOPE OF WORK

THE CONTRACTORS SCOPE OF WORK INCLUDES BUT IS NOT LIMITED TO:
1. ALL LABORS AND MATERIALS TO INSTALL THE SEWAGE DISPOSAL SHOWN, COMPLETE AND PLACED IN SERVICE.
2. INSURING ALL PERMITS HAVE BEEN OBTAINED.
3. PERFORMING ALL WORK IN ACCORDANCE WITH TITLE 5.
4. ANY MEASURES TO PROTECT THE WETLAND, IF ANY.
5. TIMELY EXECUTION OF THE WORK.

AS-BUILT

ORIGINAL		REVISIONS					
Date: 5/30/23		Rev	Date	Description	Made	Check	App.
Designed	AMT	1	6/13/23	ADD FLAGS, OWNERS NAME	AMT	LSJ	LSJ
Checked	LSJ	2	6/20/23	CHANGE TO 4 BEDROOM	AMT	LSJ	LSJ
Drawn	AMT	3	7/6/23	SITE VISIT COMMENTS	AMT	LSJ	LSJ
Reviewed		4	1/18/24	SEPTIC AS-BUILT	AMT	LSJ	LSJ
Reviewed	LSJ	5	3/12/24	PUSH BRACE INSTALLATION	LSJ	ML.J	LSJ
Approved	LSJ						

MAINTENANCE NOTE

THE STATE ENVIRONMENTAL CODE, STATES: "SEPTIC TANKS SHOULD BE INSPECTED AND CLEANED AT LEAST ANNUALLY."
NO PERMANENT STRUCTURES ARE TO BE ERECTED IN THE RESERVE AREA.
DO NOT PLANT TREES OVER OR NEAR THE FIELD.
AVOID VEHICULAR TRAFFIC OVER SYSTEM.

DEED REFERENCE: BOOK 64922, PAGE 286
SEE PLAN BOOK 953, PLAN 111 FOR PARCELS A,B,C AND D.

JALBERT ENGINEERING, INC.
CIVIL ENGINEERS & SURVEYORS
54 Main Street
Sturbridge, Massachusetts 01566-1244
Telephone: (508) 347-5136 • Toll Free: 1-800-339-5136
Fax: (508) 347-7962

Soil Absorption System - "NEW"
Located At: 244 Podunk Road
Sturbridge, Massachusetts
For: John J. & Christina I. Rice

0 40' 80' 120'
(IN FEET)
1 inch = 40' ft.

5/30/23
PLAN NUMBER
23027
REV. 5