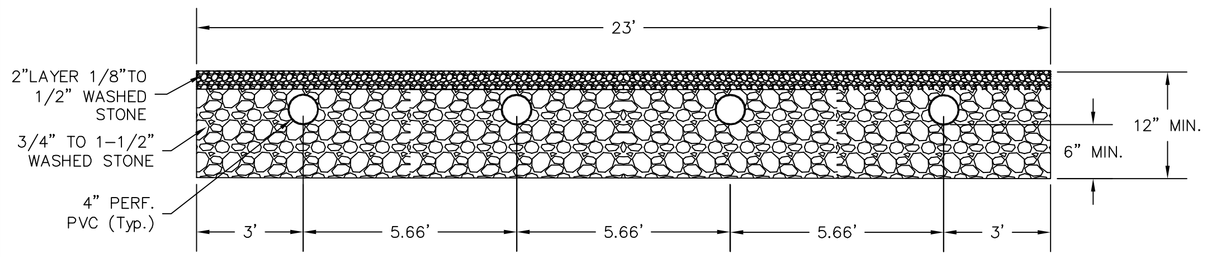
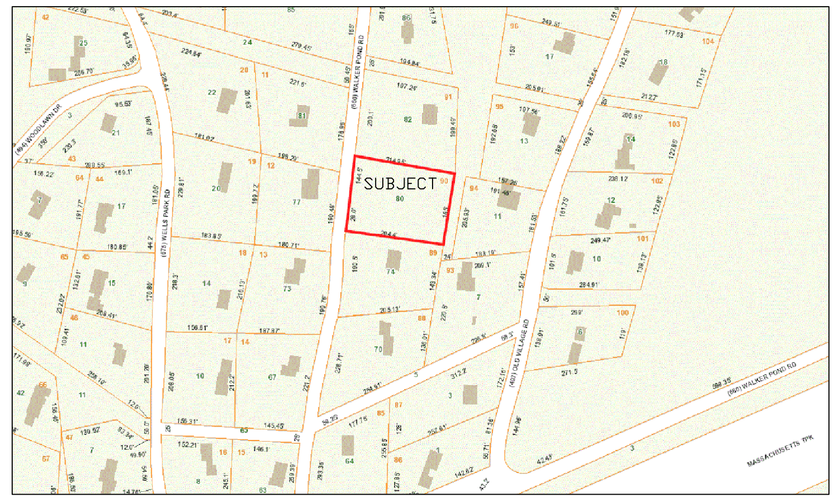
SITE PLAN & DETAILS



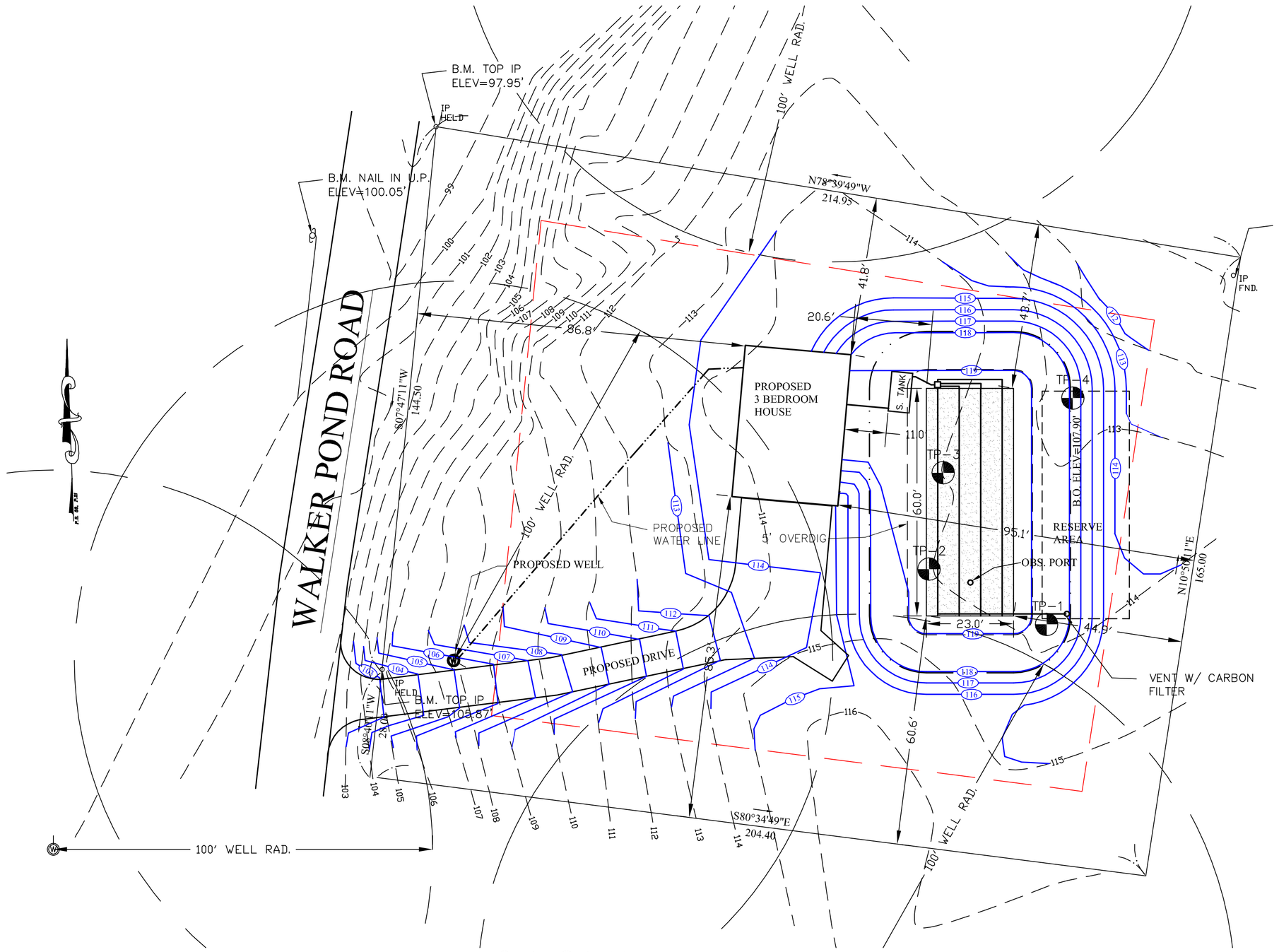
TYPICAL FIELD SECTION

SCALE = NONE



LOCUS MAP

SCALE = NONE

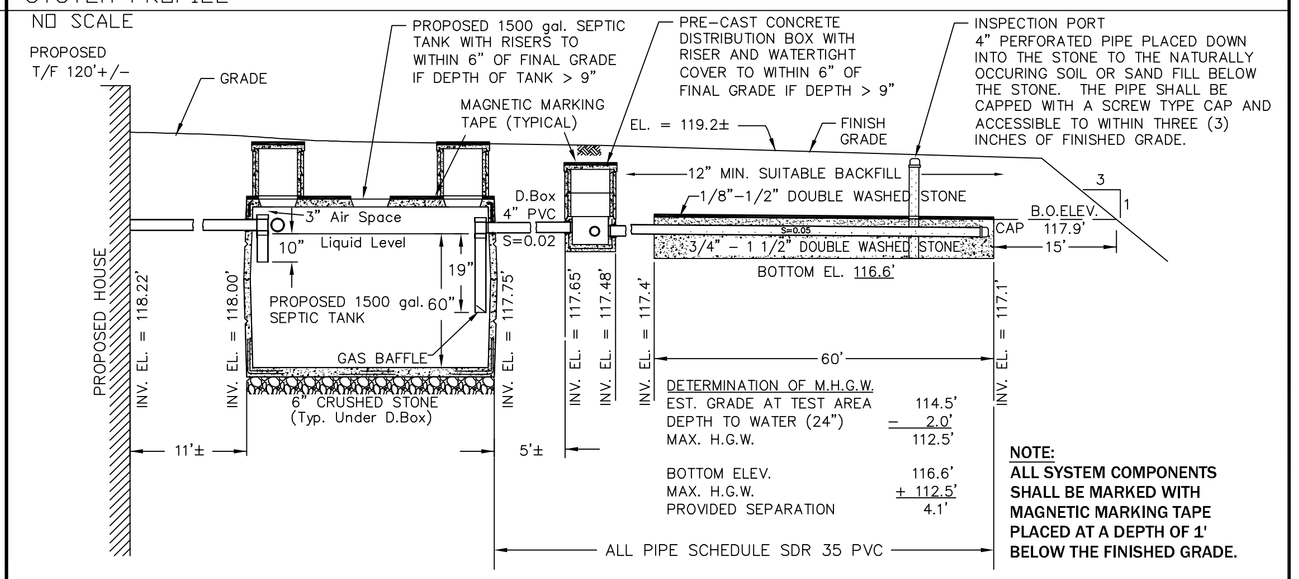


SEPTIC PLAN

SCALE: 1" = 20'

SYSTEM PROFILE

NO SCALE



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	120.0'	
INVERT AT FOUNDATION	118.22'	
INVERT IN SEPTIC TANK	118.00'	
INVERT OUT SEPTIC TANK	117.75'	
INVERT IN D. BOX	117.65'	
INVERT OUT D. BOX	117.48'	
INVERT BEGINNING FIELD	117.40'	

END INVERTS		
	PROPOSED	AS-BUILT
	117.10'	

------ 100 ------ DENOTES EXISTING CONTOUR

100 DENOTES PROPOSED CONTOUR

PERCOLATION TEST AND DEEP HOLE OBSERVATIONS

TEST PERFORMED AS PER TITLE 5.
DATE OF TEST: NOVEMBER 10,2018
TEST TAKEN 31 & 38" BELOW EXISTING GRADE.
RESULT: 36 & 32 MINUTES PER INCH
DESIGNED AT 40 MINUTES PER INCH.
PERFORMED BY: LEONARD JALBERT, PE
INSPECTED BY: JAMIE TERRY

OBSERVATION PITS

G.W. ELEV=111.90' PIT #1

	Depth 0-6"	Horizon A	Soil Structure	Color 10YR 3/3	Mottles None	Remarks
X2	6-24"	B1	S.L.	10YR 4/4	None	GRANULAR/FRIABLE
	24"-36"	B2	S.L.	2.5Y 5/4	@24"	NON-COMPACTED
	36"-82"	C	S.L.	5Y 5/3		COMPACTED

G.W. ELEV=112.0' PIT #2

	Depth 0-6"	Horizon A	Soil Structure	Color 10YR 3/3	Mottles None	Remarks
X2	6-15"	B1	S.L.	10YR 4/4	None	NONE COMPACTED
	15"-48"	B2	S.L.	2.5Y 5/4	@24"	NON-COMPACTED
	48"-88"	C	S.L.	5Y 5/3		COMPACTED

111.33' PIT #3

	Depth 0-8"	Horizon A	Soil Structure	Color 10YR 3/3	Mottles None	Remarks
X2	8"-18"	B1	S.L.	10YR 4/4	None	LOOSE
	18"-36"	B2	S.L.	2.5Y 5/4	@32"	NON-COMPACTED
	36"-88"	C	S.L.	5Y 5/3		COMPACTED

G.W. ELEV=110.68' PIT #4

	Depth 0-8"	Horizon A	Soil Structure	Color 10YR 3/3	Mottles None	Remarks
X2	8"-20"	B1	S.L.	10YR 4/4	None	NONCOMPACTED
	20"-36"	B2	S.L.	2.5Y 5/4	@26"	NON-COMPACTED
	36"-88"	C	S.L.	5Y 5/3		COMPACTED

COMMONWEALTH OF MASSACHUSETTS
LEONARD STANLEY JALBERT
No. 23300
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Leonard Jalbert

DESIGN CRITERIA: SINGLE-FAMILY

DESIGN FLOW FOR 3 BEDROOMS
3 Bedrooms x 110 gal./bedroom/day= 330 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 PROPOSED

LEACHFIELD CALCULATIONS

SQUARE FOOTAGE:
SIDEWALL: NOT APPLICABLE = 0 sq.ft.
BOTTOM: 23 ft. x 60 ft. = 1380 sq.ft.
TOTAL: 1380 sq.ft.

SOIL CLASSIFICATION: 2
LTAR: 0.25

LEACHING CAPACITY:
SIDEWALL: NOT APPLICABLE = 0 gallons
BOTTOM: 0.25 gal./sq.ft. x 1380 sq.ft. = 345 gallons
TOTAL: 345 gallons

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 NOTIN 100' OF THE CONSTRUCTION ARE SHOWN, IF ANY.
11. OFFSETS ARE NOT TO BE USED FOR THE REPRODUCTION OF PROPERTY LINES.
12. THE PROPOSED WELL IS NOT WITHIN 100' OF ANY KNOWN LEACH-ING 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.	0.81 Ac.
FRONTAGE:	150'	174.50
SETBACKS		
STREET:	30'	86.8'
SIDE LINE:	20'	41.8'
REAR:	20'	95.1'

F.I.R.M. REFERENCE

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.

ORIGINAL

Date: 12/6/18

Designed	AMT
Checked	LSJ
Drawn	AMT
Reviewed	MLJ
Reviewed	
Approved	

REVISIONS

Rev	Date	Description	Made	Check	App.

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.

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: 80 Walker Pond Road
STURBRIDGE, MASSACHUSETTS
For: Carl and Lisa Hynes
Scale: 1"= 20' Date: December 6, 2018

12/6/18
PLAN NUMBER
18189