

SOIL EVALUATION:

SOIL EVALUATOR: CHRISTOPHER STODDARD, P.E.
 WITNESS: JAMES ABARE, R.S.
 DATE: 7-30-2018

PERC TEST RESULTS:
 HOLE #1 = 5 MIN/INCH @ 36"
 HOLE #2 = 3 MIN/INCH @ 38"

HOLE #1

DEPTH FROM SURFACE	HORIZON	SOIL MATRIX: COLOR	REDONIMORPHIC FEATURES	SOIL TEXTURE	ELEVATION
EXISTING GROUND ELEVATION: 101.23					
0-5	O				100.81
5-13	Bw	10YR 5/6		LOAMY SAND	100.15
13-78	C	2.5Y 6/2 @ 35° 2.5Y 7/4 10%		LOAMY SAND	94.73 ESHWT 98.31

HOLE #2

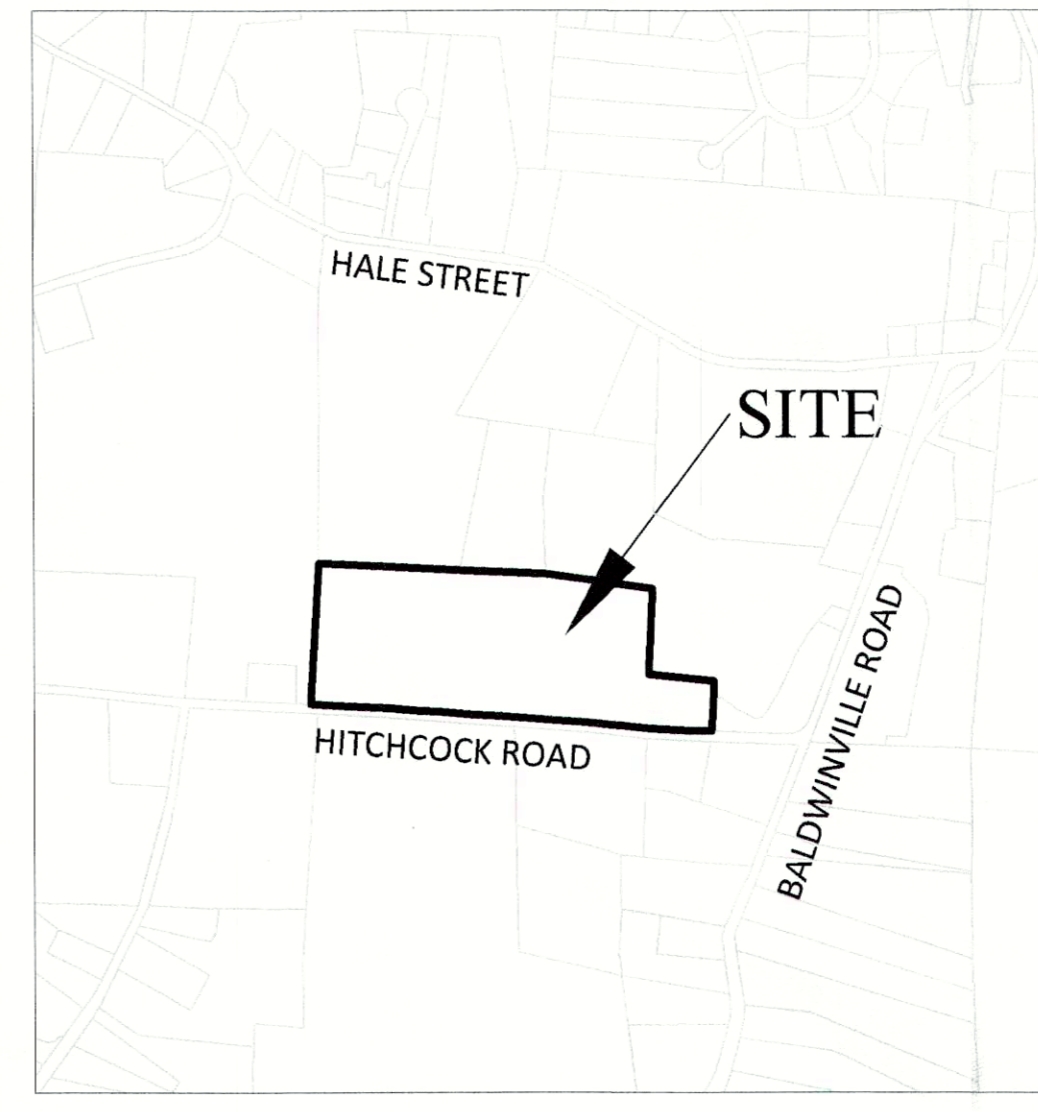
DEPTH FROM SURFACE	HORIZON	SOIL MATRIX: COLOR	REDONIMORPHIC FEATURES	SOIL TEXTURE	ELEVATION
EXISTING GROUND ELEVATION: 101.95					
0-5	O				101.53
5-17	Bw	10YR 5/6		LOAMY SAND	100.53
17-36	C1	2.5Y 7/3		FINE SAND	98.95
36-96	Cd	2.5Y 5/2 @ 40° 7.5YR 5/6 10%		SANDY LOAM	93.95 ESHWT 98.62

HOLE #3

DEPTH FROM SURFACE	HORIZON	SOIL MATRIX: COLOR	REDONIMORPHIC FEATURES	SOIL TEXTURE	ELEVATION
EXISTING GROUND ELEVATION: 99.55					
0-6	O				99.05
6-15	Bw	10YR 4/6		LOAMY SAND	98.30
15-39	C1	2.5Y 6/6 @ 38° 7.5YR 5/8 10%		FINE SAND	96.30 ESHWT 96.38
39-69	Cd	2.5Y 5/1		SANDY LOAM	93.80

HOLE #4

DEPTH FROM SURFACE	HORIZON	SOIL MATRIX: COLOR	REDONIMORPHIC FEATURES	SOIL TEXTURE	ELEVATION
EXISTING GROUND ELEVATION: 99.43					
0-5	O				99.01
5-13	Bw	10YR 5/4		LOAMY SAND	98.35
13-40	C1	2.5Y 5/6 @ 40° 7.5YR 4/6 10%		COARSE SAND	96.10 ESHWT 96.10
40-86	Cd	2.5Y 5/2		SANDY LOAM	92.26



DESIGN CRITERIA:

FLOW:
 3 BEDROOMS @ 110 GPD/BDRM = 330 GPD

TANK REQUIREMENT:
 330 GPD x 200% = 660 GAL MINIMUM
 1500 GALLON TANK WITH PL-122 OR EQUIVALENT EFFLUENT FILTER PROVIDED

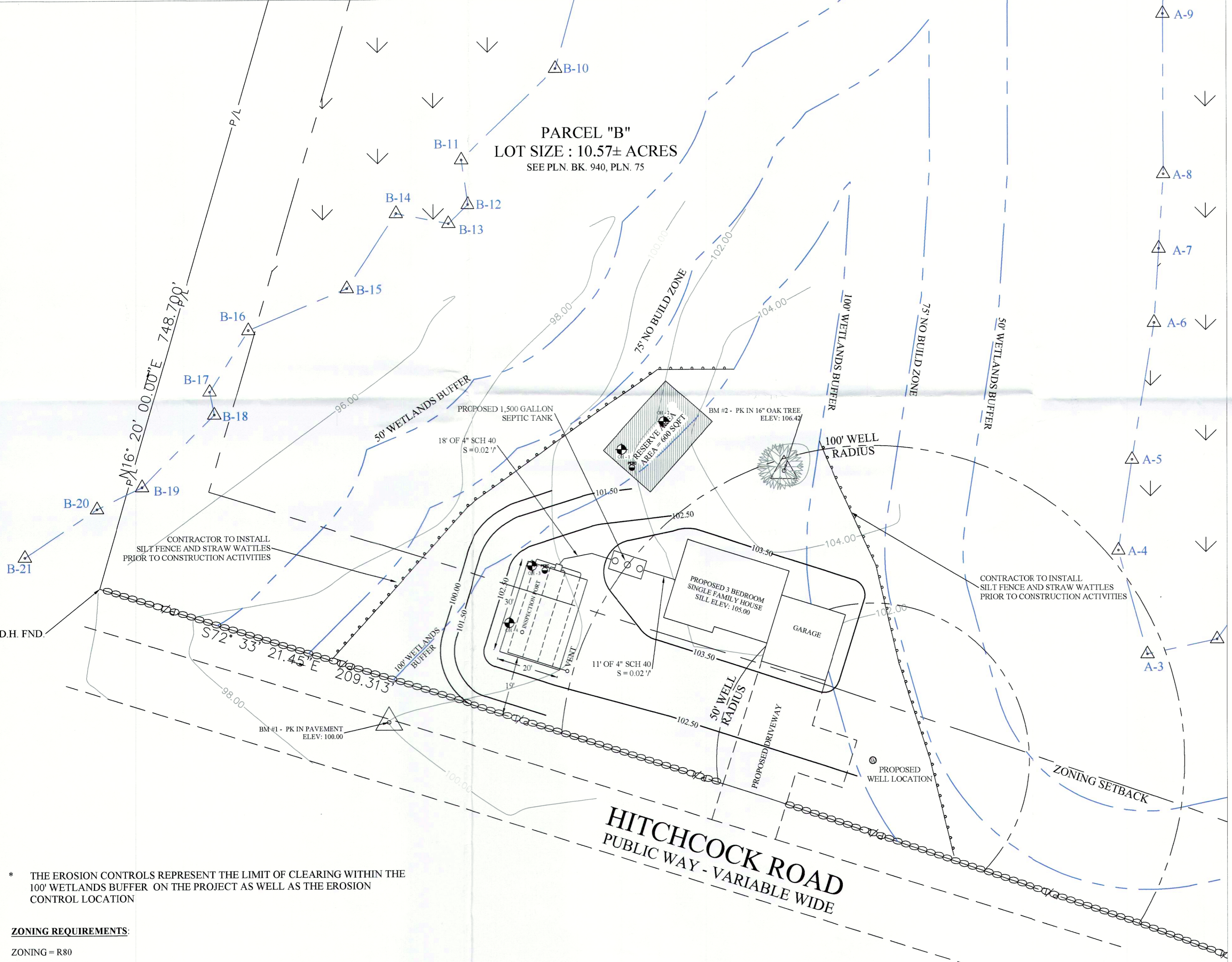
LEACH AREA REQUIREMENT:
 AREA NEEDED: 330 GPD x 0.60 (CLASS II LTR) = 550 S.F.
 AREA PROVIDED: 20' WIDE x 30' LONG LEACH FIELD = 600 S.F.
 GPD CAPACITY PROVIDED: 600 S.F. x 0.60 GPD/S.F. = 360 GPD

COMPONENT NOTES:

- SEPTIC TANK SHALL BE 1,500 GALLONS PLACED LEVEL ON A MINIMUM OF 6" CRUSHED STONE
- SEPTIC TANK CONSTRUCTION SHALL CONFORM TO 310 CMR 15.226
- 24" DIAMETER MANHOLES TO BE INSTALLED TO FINISHED GRADE OVER INLET AND OUTLET ACCESS HOLES
- DISTRIBUTION BOX SHALL BE INSTALLED ON A MINIMUM OF 6" CRUSHED STONE
- DISTRIBUTION BOXES BURIED GREATER THAN NINE (9) INCHES BELOW GRADE SHALL BE EQUIPPED WITH RISERS
- DISTRIBUTION BOX OUTLETS SHALL BE LEVEL FOR A MINIMUM OF THE FIRST TWO (2) FEET OF THEIR LENGTH
- CONTRACTOR TO INSTALL 3-6" OF COARSE GRAVEL BORROW MEETING MASSDOT SPECIFICATION M1.03.0 BETWEEN STONE AND SAND LAYERS MINIMUM BACKFILL OVER THE SYSTEM SHALL BE TWELVE (12) INCHES INCLUDING TOPSOIL AND SHALL BE SLOPED AT A MINIMUM OF 2% AWAY FROM THE SYSTEM
- IN ACCORDANCE WITH 310 CMR 15.221 ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC LOCATING TAPE PRIOR TO BACKFILLING

GENERAL NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 310 CMR
- NO WORK SHALL BE CONDUCTED UNTIL ALL NECESSARY PERMITS ARE OBTAINED
- THIS PLAN IS INTENDED FOR THE INSTALLATION OF THE SEWAGE DISPOSAL SYSTEM ONLY; PROPERTY LINES SHALL BE CONSIDERED APPROXIMATE NO CHANGES SHALL BE MADE TO THE APPROVED PLAN WITHOUT PRIOR APPROVAL OF THE LOCAL APPROVING AUTHORITY AND THE ENGINEER
- THIS SYSTEM IS NOT DESIGNED FOR THE USE OF A GARBAGE DISPOSAL
- THE LOCATION OF THE EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE INTENDED ONLY TO ADVISE THE CONTRACTOR OF THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION OF ALL EXISTING UTILITIES
- CONTRACTOR TO CALL "DIG SAFE" (1-888-344-7233) FOR FIELD LOCATIONS OF ALL EXISTING UTILITIES
- ALL "A" HORIZON AND IMPERVIOUS MATERIAL SHALL BE REMOVED FOR AN ADDITIONAL FIVE (5) FEET IN ALL DIRECTIONS AND REPLACED WITH FILL MATERIAL MEETING 310 CMR 15.255(5) SPECIFICATIONS



* THE EROSION CONTROLS REPRESENT THE LIMIT OF CLEARING WITHIN THE 100' WETLANDS BUFFER ON THE PROJECT AS WELL AS THE EROSION CONTROL LOCATION

ZONING REQUIREMENTS:

ZONING = R80

	REQUIRED	PROVIDED
MINIMUM LOT SIZE	80,000 FT ²	460,429.20 FT ²
MINIMUM LOT FRONTAGE	200'	500.20'
MINIMUM SETBACK FRONT	40'	41'
MINIMUM SETBACK SIDE	25'	177'
MINIMUM SETBACK REAR	50'	670'

**SEWAGE DISPOSAL SYSTEM
 LOT "B" HITCHCOCK ROAD
 WINCHENDON, MA
 MATSON HOMES**

STODDARD ENGINEERING
 1863 OLD KEENE ROAD
 ATHOL, MASSACHUSETTS 01331
 978.790.9731

DATE: 10-27-2022
 SCALE: 1" = 20'
 DRAWN BY: CJS
 SHEET 1 OF 1

