

GENERAL NOTES:

- TOPOGRAPHIC INFORMATION IS BASED UPON AVAILABLE TOWN MAPPING.
- EXISTING BOUNDARY IS BASED UPON FIELD SURVEY CONDUCTED BY MILONE AND MACBROOM INC.
- MILONE & MACBROOM INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
- ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM 6" TOPSOIL AND BE SEEDED WITH GRASS.
- THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO THE EXECUTION OF THE WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
- ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE TOWN OF CHESHIRE REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 817 AND ADDENDUMS.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR DETERMINATION.
- ALL UTILITY SERVICES ARE TO BE UNDERGROUND. THE EXACT LOCATION, MEANS OF CONSTRUCTION, AND SIZE OF ELECTRIC, TELEPHONE, AND CABLE ARE TO BE DETERMINED BY THE RESPECTIVE UTILITY COMPANIES.
- INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG" (800) 922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLAN SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION HAS BEEN ESTABLISHED.
- ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
- A STABLE BENCH MARK SHALL BE SET BY THE ENGINEER PRIOR TO CONSTRUCTION OF THE PROPOSED LEACHING SYSTEM.
- NO EXISTING WELLS ARE LOCATED WITHIN 75' OF THE PROPOSED LEACHING SYSTEM.
- COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITEE.
- FF=FINISH FLOOR ELEVATION, GF=GARAGE FLOOR ELEVATION, BF=BASEMENT FLOOR ELEVATION

SOIL TESTING DATA

Test Pit: 13
Date: 2/25/2015
00'-08" TOPSOIL
08"-22" BROWN SANDY LOAM
22"-41" DECOMPOSED SANDSTONE
41"-78" TIGHT SANDSTONE

Test Pit: 17
Date: 2/25/2015
00'-06" TOPSOIL
06"-21" BROWN FINE SANDY LOAM
21"-49" DECOMPOSED SANDSTONE
49"-80" DENSE ARKOSE

MOTTLING @ 22"
GROUNDWATER-N/A
LEDGE-ATYPICAL 22"
ROOTS-48"
RESTRICTIVE-22"

PERC-N/A

Test Pit: 14
Date: 2/25/2015
00'-07" TOPSOIL
07"-16" BROWN SANDY LOAM
16"-66" DECOMPOSED SANDSTONE
66"-83" DENSE ARKOSE

MOTTLING @ 26"
GROUNDWATER-60"
LEDGE-ATYPICAL 16"
ROOTS-60"
RESTRICTIVE-16"

PERC-N/A

Test Pit: 15
Date: 2/25/2015
00'-07" TOPSOIL
07"-23" BROWN SANDY LOAM
23"-36" DECOMPOSED SANDSTONE
36"-76" DENSE ARKOSE

MOTTLING @ 23"
GROUNDWATER-N/A
LEDGE-ATYPICAL 23"
ROOTS-40"
RESTRICTIVE-23"

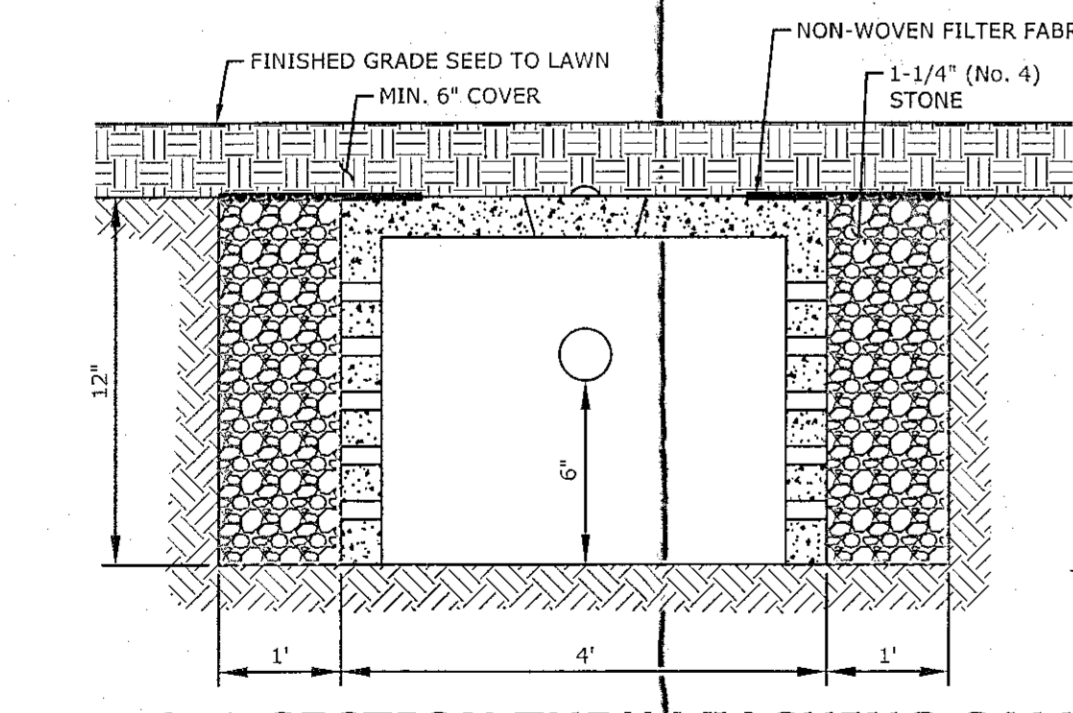
PERC-N/A

Test Pit: 16
Date: 2/25/2015
00'-07" TOPSOIL
08"-23"/29"/32" BROWN FINE SANDY LOAM
23"/29"/32"-48" DECOMPOSED SANDSTONE
48"-73" DENSE ARKOSE

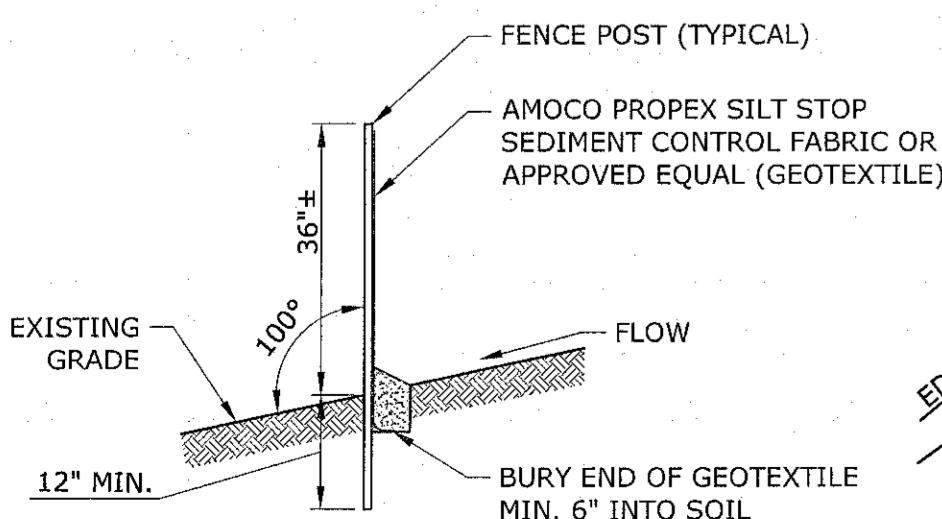
MOTTLING @ 23"
GROUNDWATER-N/A
LEDGE-ATYPICAL 23"
ROOTS-48"
RESTRICTIVE-23"

PERC-16
DEPTH-17"
PERC RATE-10.0-20.0

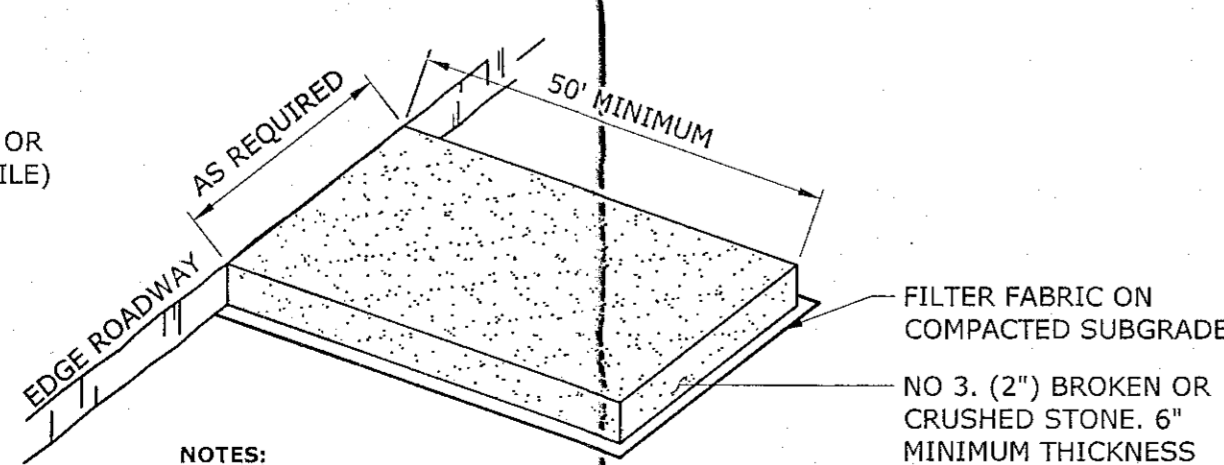
No. 4 STONE AGGREGATE (1 1/4" STONE)	
SIEVE SIZE	PERCENT PASSING (BY WEIGHT)
2-INCH	100
1.5-INCH	90-100
1-INCH	20-55
3/4-INCH	0-15
1/2-INCH	N/A
3/8-INCH	0-5
#4	N/A



TYPICAL SECTION THRU LEACHING GALLERY
NOT TO SCALE



SEDIMENT FILTER FENCE
NOT TO SCALE



CONSTRUCTION ENTRANCE PAD
NOT TO SCALE

- NOTES:**
- CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH GENERATE VEHICULAR TRACKING OF MUD.

SYSTEM DESIGN

DESIGN BASIS: CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS REVISED JANUARY 2018.

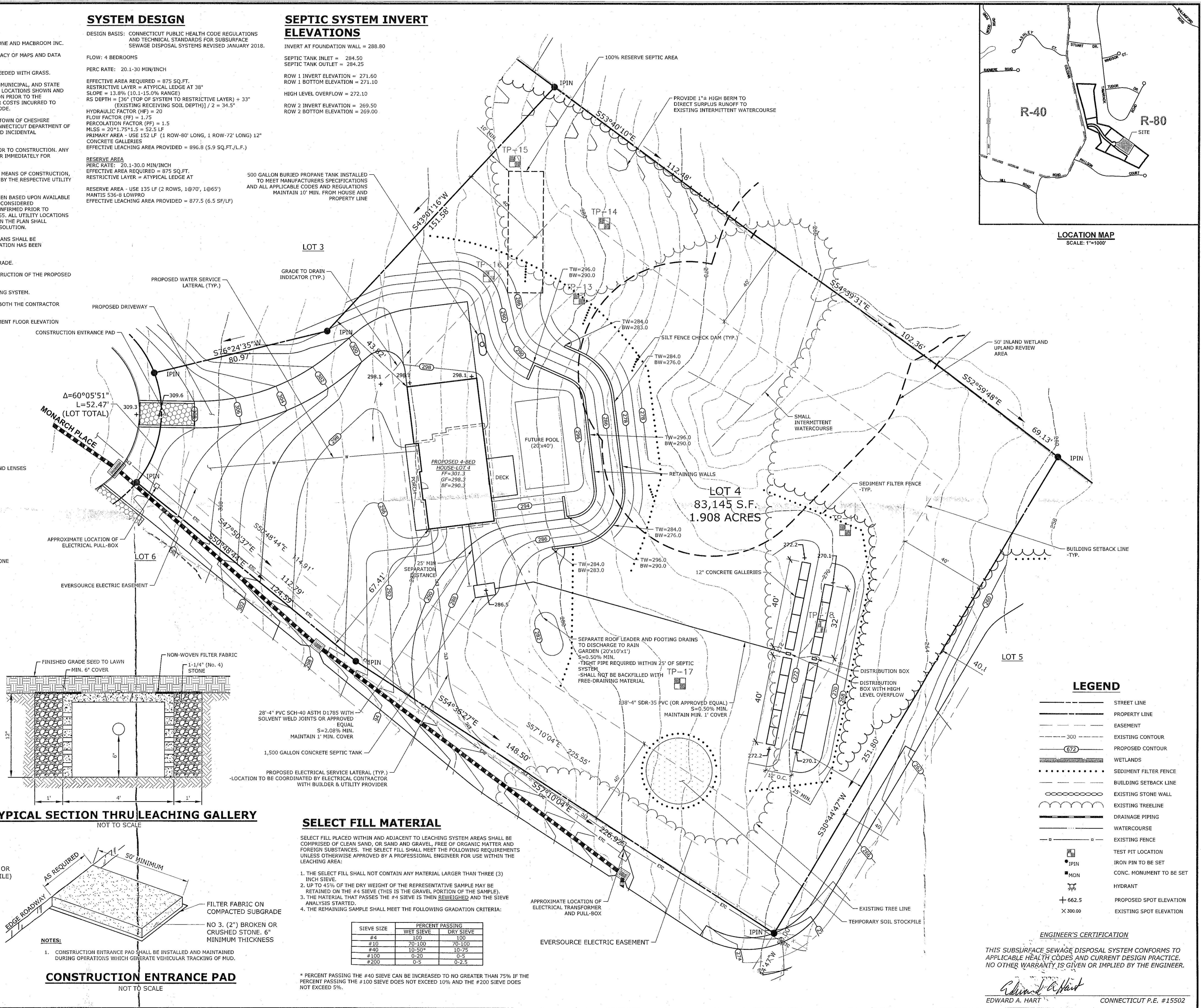
FLOW: 4 BEDROOMS
PERC RATE: 20.1-30 MIN/INCH
EFFECTIVE AREA REQUIRED = 875 SQ.FT.
RESTRICTIVE LAYER = ATYPICAL LEDGE AT 38"
SLOPE = 13.8% (10.1-15.0% RANGE)
RS DEPTH = [36" (TOP OF SYSTEM TO RESTRICTIVE LAYER) + 33" (EXISTING RECEIVING SOIL DEPTH)] / 2 = 34.5"
HYDRAULIC FACTOR (HF) = 1.75
PERCOLATION FACTOR (PF) = 1.5
MLSS = 20 * 1.75 * 1.5 = 52.5 LF
PRIMARY AREA - USE 152 LF (1 ROW-80' LONG, 1 ROW-72' LONG) 12" CONCRETE GALLERIES
EFFECTIVE LEACHING AREA PROVIDED = 896.8 (5.9 SQ.FT./L.F.)

RESERVE AREA
PERC RATE: 20.1-30.0 MIN/INCH
EFFECTIVE AREA REQUIRED = 875 SQ.FT.
RESTRICTIVE LAYER = ATYPICAL LEDGE AT 38"
RESERVE AREA - USE 135 LF (2 ROWS, 1@70', 1@65')
MAMTS 536-8 LOWPRO
EFFECTIVE LEACHING AREA PROVIDED = 877.5 (6.5 SF/LF)

SEPTIC SYSTEM INVERT ELEVATIONS

INVERT AT FOUNDATION WALL = 288.80
SEPTIC TANK INLET = 284.50
SEPTIC TANK OUTLET = 284.25
ROW 1 INVERT ELEVATION = 271.60
ROW 1 BOTTOM ELEVATION = 271.10
HIGH LEVEL OVERFLOW = 272.10
ROW 2 INVERT ELEVATION = 269.50
ROW 2 BOTTOM ELEVATION = 269.00

500 GALLON BURIED PROPANE TANK INSTALLED TO MEET MANUFACTURER'S SPECIFICATIONS AND ALL APPLICABLE CODES AND REGULATIONS MAINTAIN 10' MIN. FROM HOUSE AND PROPERTY LINE



LEGEND

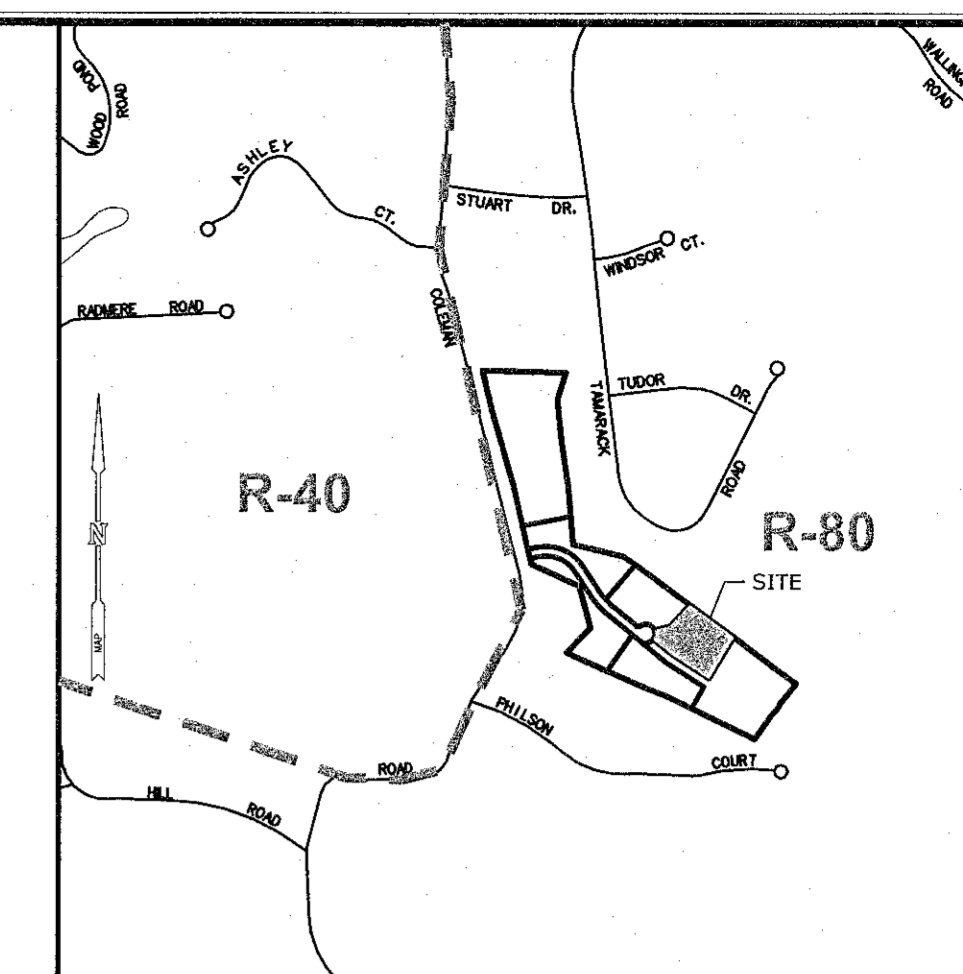
- STREET LINE
- PROPERTY LINE
- EASEMENT
- EXISTING CONTOUR
- PROPOSED CONTOUR
- WETLANDS
- SEDIMENT FILTER FENCE
- BUILDING SETBACK LINE
- EXISTING STONE WALL
- EXISTING TREELINE
- DRAINAGE PIPING
- WATERCOURSE
- EXISTING FENCE
- TEST PIT LOCATION
- IRON PIN TO BE SET
- CONC. MONUMENT TO BE SET
- HYDRANT
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION

SELECT FILL MATERIAL

- SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE OF ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY A PROFESSIONAL ENGINEER FOR USE WITHIN THE LEACHING AREA:
- THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THREE (3) INCH SIEVE.
 - UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
 - THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
 - THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

SIEVE SIZE	PERCENT PASSING WET SIEVE	PERCENT PASSING DRY SIEVE
#4	100	100
#10	70-100	70-100
#40	10-50*	10-75
#100	0-20	0-5
#200	0-5	0-2.5

* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.



LOCATION MAP
SCALE: 1"=1000'

MILONE & MACBROOM
18 BEAULT DRIVE
CHESHIRE, CT 06810
203.271.1773
WWW.MJMINC.COM

RECEIVED
Town of Cheshire
JUL 15 2020
Planning Dept.

SITE PLAN - SUBSURFACE SEWAGE DISPOSAL SYSTEM
MONARCH ESTATES SUBDIVISION
LOT 4
30 MONARCH PLACE
CHESHIRE, CONNECTICUT

VEH	STN	EAH
DESIGNED	DRAWN	CHECKED

SCALE: 1" = 20'
DATE: JULY 15, 2020
PROJECT NO: 6793-02
SHEET NO: 1 OF 1
SHEET NAME: LOT 4

EDWARD A. HART
CONNECTICUT P.E. #15502