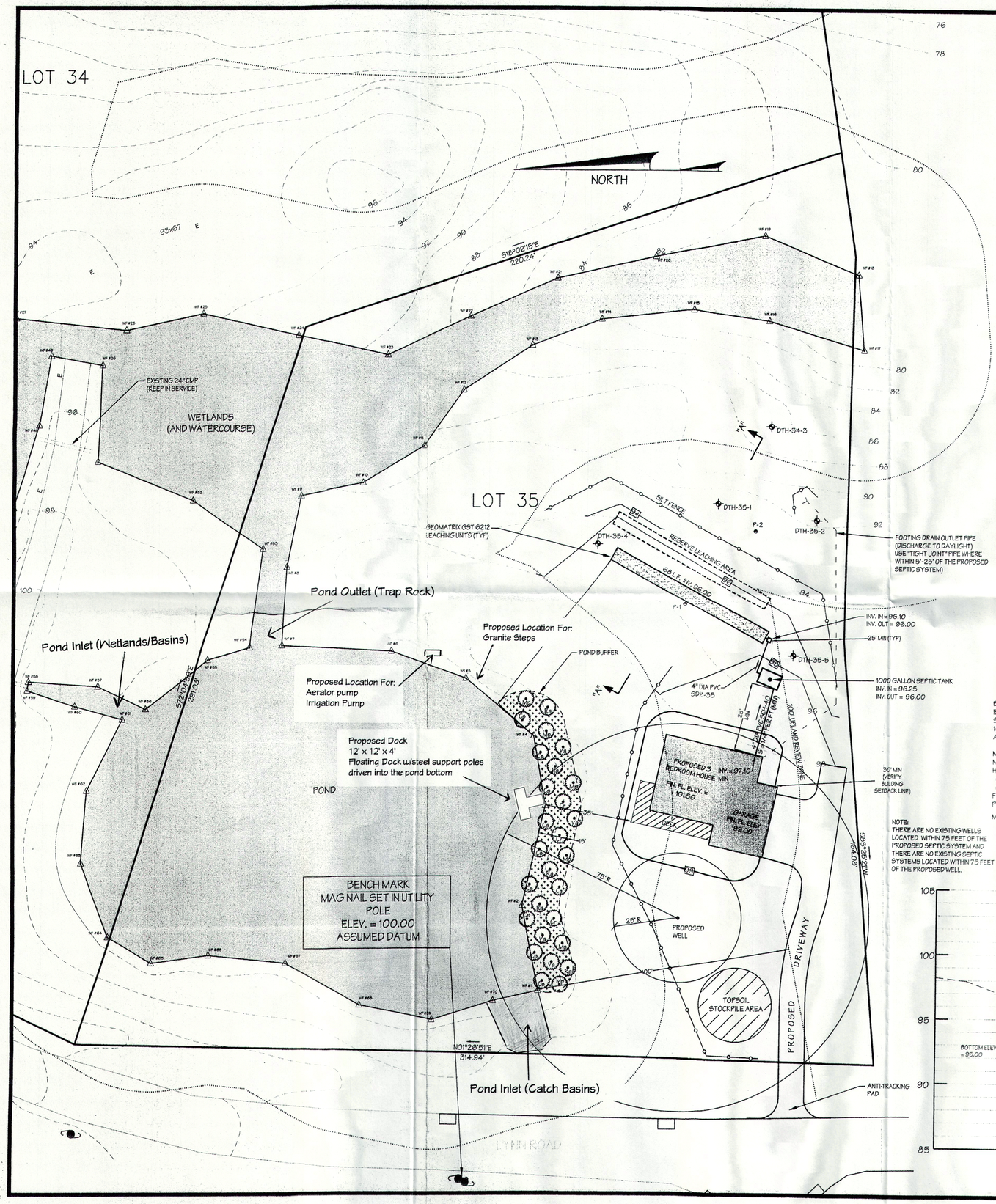


SOIL TEST RESULTS (2-22-17)
COSTA SUBDIVISION (LOT 35)
LYNN ROAD, ESSEX CT
CONDUCTED BY: ROGER NEMERGUT, NEMERGUT CONSULTING &
LISA FASULO, ESSEX HEALTH DIRECTOR

DEEP TEST HOLE 35-1
0"- 4" TOPSOIL
4"-30" ORANGE BROWN SILTY LOAM, LOOSE, DAMP
30"-56" LIGHT BROWN FINE TO MEDIUM SILTY SAND FIRM, DAMP
REFUSAL AT 56" (NORTH SIDE OF HOLE)
REFUSAL AT 82" (SOUTH SIDE OF HOLE)
GROUNDWATER AT 38"
MOTTLING/REDOX AT 30"
ROOTS TO 30"

DEEP TEST HOLE 35-2
0"- 3" TOPSOIL
3"-26" ORANGE BROWN SILTY LOAM, LOOSE, DAMP
26"-82" LIGHT BROWN FINE TO MEDIUM SILTY SAND FIRM, DAMP
REFUSAL AT 82"
GROUNDWATER AT 48"
MOTTLING/REDOX AT 51"
ROOTS TO 45"

SOIL TEST RESULTS (5-02-18)
COSTA SUBDIVISION (LOT 35)
LYNN ROAD, ESSEX CT
CONDUCTED BY: ROGER NEMERGUT, NEMERGUT CONSULTING &
LISA FASULO, ESSEX HEALTH DIRECTOR

DEEP TEST HOLE 35-3
0"- 3" TOPSOIL
3"-27" ORANGE BROWN SANDY LOAM
27"-55" LIGHT BROWN MEDIUM TO COARSE SAND, LITTLE SILT
REFUSAL AT 55"
GROUNDWATER AT 34"
NO MOTTLING/REDOX
ROOTS TO 26"

DEEP TEST HOLE 35-4
0"- 4" TOPSOIL
4"-29" ORANGE BROWN FINE SANDY LOAM
29"-45" LIGHT BROWN (GREY) FINE TO MEDIUM SILTY SAND
45"-81" MOTTLED MEDIUM TO COARSE SAND AND GRAVEL, SILTY
NO REFUSAL
GROUNDWATER AT 37"
MOTTLING/REDOX AT 26"
ROOTS TO 42"

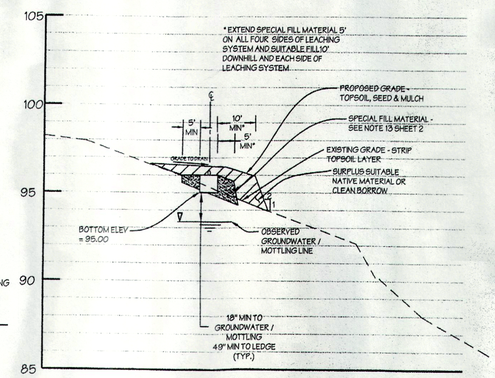
DEEP TEST HOLE 35-5
0"- 3" TOPSOIL
3"-29" ORANGE BROWN FINE SANDY LOAM
29"-80" LIGHT BROWN (GREY) MEDIUM TO COARSE SILTY SAND
REFUSAL AT 80"
GROUNDWATER AT 35"
MOTTLING/REDOX AT 28"
ROOTS TO 45"

BASIS FOR SEPTIC SYSTEM DESIGN
EFFECTIVE LEACHING SYSTEM AREA REQUIRED BY THE STATE HEALTH CODE TECHNICAL STANDARDS FOR A 3 BEDROOM HOUSE AND
10.1 - 20.0 MINUTE PER INCH PERCOLATION RATE = 675 S.F. EFFECTIVE LEACHING SYSTEM AREA PROVIDED 68 L.F. OF GST 6212 LEACHING UNITS AT10.0 S.F./L.F. = 680. S.F.

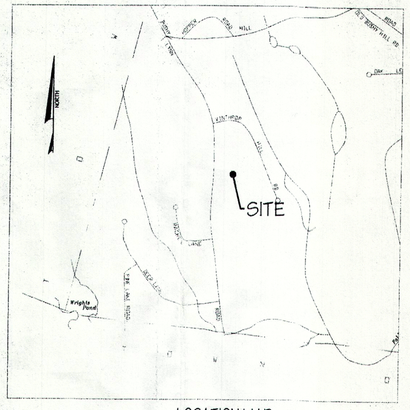
MINIMUM LEACHING SYSTEM SPREAD (M.L.S.S.)
MLSS = HYDRAULIC FACTOR X FLOW FACTOR X PERCOLATION FACTOR
HYDRAULIC FACTOR = 28
(RECEIVING SOIL DEPTH = 26.1" - 30.0")
(HYDRAULIC GRADIENT = 6.1 - 8.0%)
FLOW FACTOR = 1.5 (3 BEDROOMS)
PERCOLATION FACTOR = 1.25 (10.1 TO 20.0 MINUTES PER INCH)

MLSS = 28 X 1.5 X 1.25 = 53 L.F.

NOTE:
THERE ARE NO EXISTING WELLS LOCATED WITHIN 75 FEET OF THE PROPOSED SEPTIC SYSTEM AND THERE ARE NO EXISTING SEPTIC SYSTEMS LOCATED WITHIN 75 FEET OF THE PROPOSED WELL.



SECTION "A - A"
SCALE: 1"= 20' H. & 1"= 4' V.



LOCATION MAP
SCALE: 1"= 1000'

PERCOLATION TEST RESULTS
(BY NEMERGUT CONSULTING)
MAY 8, 2018
LOCATION: P-1
HOLE DEPTH = 18"

TIME	READING	CHANGE
10:25	7 4/8	---
10:30	8 5/8	11/8
10:35	9 1/8	4/8
10:40	9 5/8	4/8
10:45	10	3/8
10:50	10 3/8	3/8
10:55	10 6/8	3/8
11:00	11 1/8	3/8
11:05	11 4/8	3/8
11:10	11 7/8	3/8
11:15	12 2/8	3/8
11:20	12 5/8	3/8
11:25	13	3/8

PERCOLATION RATE =
13.3 MINUTES PER INCH

PERCOLATION TEST RESULTS
(BY NEMERGUT CONSULTING)
MAY 8, 2018
LOCATION: P-2
HOLE DEPTH = 19"

TIME	READING	CHANGE
10:26	8 2/8	---
10:31	10 2/8	2
10:36	11 4/8	12/8
10:41	12 3/8	7/8
10:46	13 1/8	6/8
10:51	13 5/8	4/8
10:56	14 1/8	4/8
11:01	14 5/8	4/8
11:06	15 1/8	4/8
11:11	15 4/8	3/8
11:16	15 7/8	3/8
11:21	16 2/8	3/8
11:26	16 4/8	2/8

PERCOLATION RATE =
20.0 MINUTES PER INCH

POND BUFFER PLANTING SCHEDULE

SHRUBS:

SYMBOL	BOTANICAL NAME	COMMON NAME	HEIGHT	QUANTITY
Mp	MORELLA PENSYLVANICA	BAYBERRY	3'-4'	6
Cs	CORNUS SERICEA	REDOSIER DOGWOOD	3'-4'	9
Cr	CORNUS RACEMOSA	GRAY DOGWOOD	3'-4'	4
Ra	RHUS AROMATIC	FRAGRANT SUMAC	3'-4'	5
Va	VACCINIUM ANGUSTIFOLIUM	LOWBUSH BLUEBERRY	2'	4

GROUND COVER:

BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
PANICUM VIRGATUM	SWITCHGRASS	2" PLUG	200
SCHIZACHYRIUM SCORPARIUM	LITTLE BLUESTEM	2" PLUG	200

NOTES:
1. POND BUFFER PLANTING PLAN AS PREPARED BY R. RICHARD SNARSKI, C.P.S.S.
2. THE GROUND COVER PLANT PLUGS SHALL BE PLANTED 2 FEET ON CENTER ALTERNATING THE PLANT SPECIES DURING INSTALLATION.

Revised Site Plan
Mark Reeves
12/08/2020

LEGEND:
EXISTING CONTOUR
PROPOSED CONTOUR
DEEP TEST HOLE
PERCOLATION TEST
SILT FENCE
WETLAND BOUNDARY
LIMIT OF UPLAND REVIEW ZONE

20 10 0 20 40 60

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DEC 10 2020
BY:

NIC
NEMERGUT CONSULTING

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NEMERGUTCONSULTING.COM

STATE OF CONNECTICUT
ROGER D. NEMERGUT
NO. 10008
REGISTERED
PROFESSIONAL ENGINEER

ROGER D. NEMERGUT
PROFESSIONAL ENGINEER
LIC. NO. 10008

JASON A. NEMERGUT
PROFESSIONAL ENGINEER
LIC. NO. 26088

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THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS THE DESIGN ENGINEER'S RAISED PROFESSIONAL SEAL APPEARS ON THE PLAN; AND THE OWNER/CONTRACTOR HAS CONTACTED THE DESIGN ENGINEER TO VERIFY THAT THEY ARE IN POSSESSION OF THE LATEST APPROVED DESIGN PLANS.

SITE PLAN & EROSION AND SEDIMENT CONTROL PLAN

MARK REEVES
LOT 35 COSTA SUBDIVISION - LYNN ROAD
IVORYTON CONNECTICUT

MAP: 84 LOT: 1-35

DATE: 7-25-18
DESIGNED BY: J.A.N.
CHECKED BY: R.D.N.
SCALE: 1" = 20'

CAD FILE: 426-18-03

NO.	DATE	REVISIONS
1	9/21/18	HOUSE FOOTPRINT
2	10/31/18	HEALTH DEPT. REV.
3	12/20/18	IWC REV. COMM.

SHEET