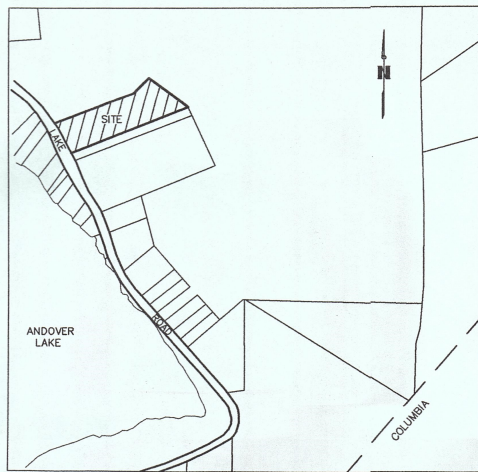




LOCATION MAP
SCALE: 1"=400'

SANITARY SYSTEM DESIGN

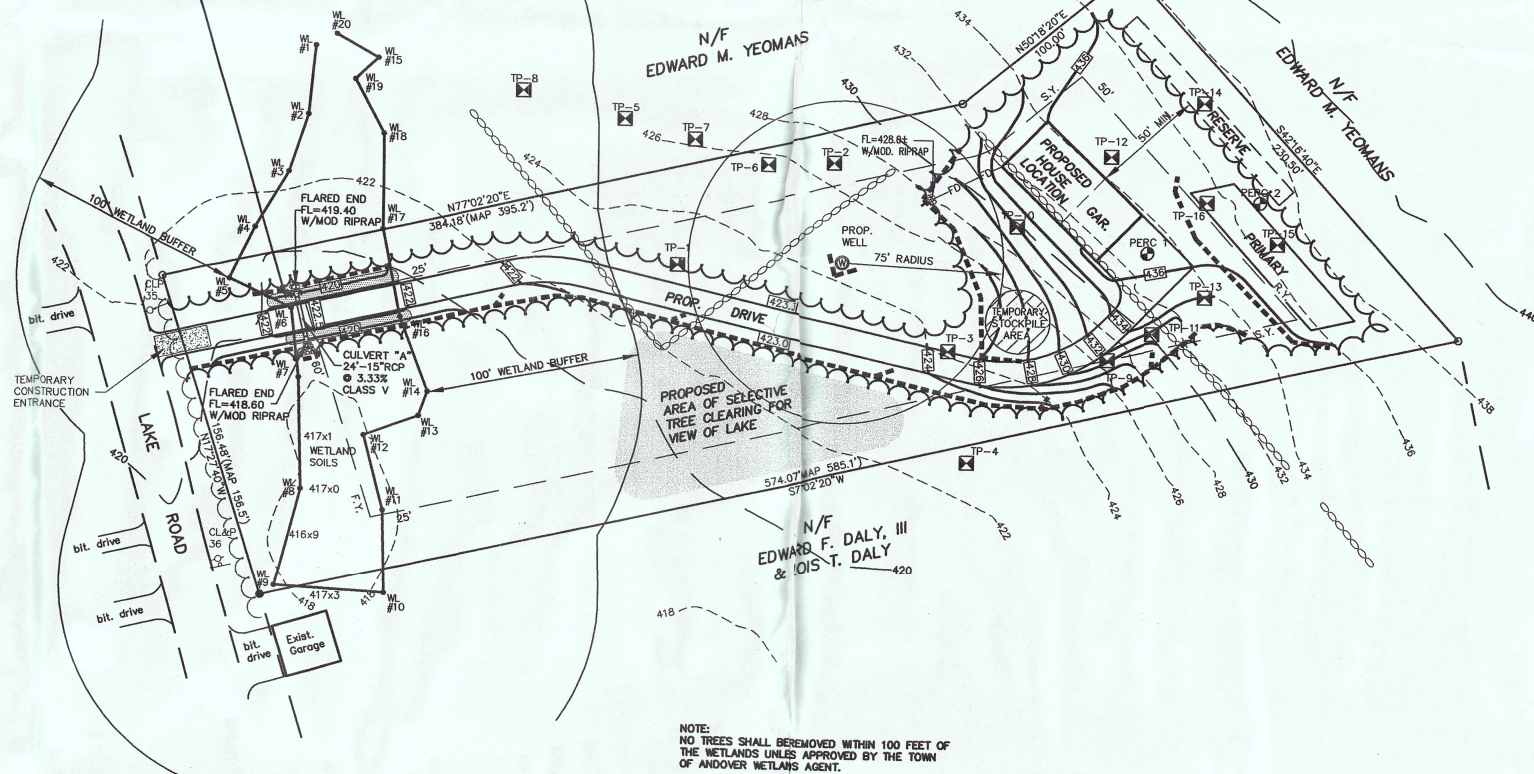
NUMBER OF BEDROOMS	4
PERCOLATION RATE	1.0-10 MIN./IN.
ABSORPTION AREA REQUIRED	660 S.F. (MIN.)
USE 4' WIDE TRENCHES	220 L.F. REQ'D
USE 3 TRENCHES @	74 L.F. EACH
SEPTIC TANK CAPACITY	1,250 GAL. (MIN.)

MLSS CALCULATION

BEDROOMS: 4
SLOPE: 6.1%
REST LAYER: 25"
PERC. RATE: 10 MIN./IN.

$$HF(30) \times FF(2.0) \times PF(1.2) = 72 \text{ L.F.}$$

NOTE: WETLAND SHRUBS SUCH AS WINTERBERRY AND HIGH BUSH BLUEBERRY TO BE PLANTED ALONG BOTH SIDES OF THE DRIVEWAY THROUGH THE WETLAND CORRIDOR.



NOTE: NO TREES SHALL BE REMOVED WITHIN 100 FEET OF THE WETLANDS UNLESS APPROVED BY THE TOWN OF ANDOVER WETLANDS AGENT.

PERC. INFORMATION

PERC HOLE: 1
DATE: 3-31-05
DEPTH: 22"
RATE: 10.0 MIN./IN.

PERC HOLE: 2
DATE: 3-31-05
DEPTH: 22"
RATE: 10.0 MIN./IN.

TEST PIT DATA

TEST PIT: 1
DATE: 1996
DEPTH: 48"
MOTTLING: 20"
GROUNDWATER: 12"
MATERIAL: 0-10" TOPSOIL
10-24" SILTY FINE S.L.
24-48" GLACIAL TILL

TEST PIT: 2
DATE: 1996
DEPTH: 24"
MOTTLING: 20"
GROUNDWATER: 24"
MATERIAL: -

TEST PIT: 3
DATE: 1996
DEPTH: 18"
MOTTLING: 9"
GROUNDWATER: 12"
MATERIAL: 0-10" T.S. BLACK (HARDPAN 18")

TEST PIT: 4
DATE: 1996
DEPTH: 7"
MOTTLING: -
GROUNDWATER: 13"
MATERIAL: 0-8" T.S.
8-26" F.S.L.
26-7" G.T.

TEST PIT: 5
DATE: 1996
DEPTH: 8"
MOTTLING: 26-28"
GROUNDWATER: 30"
MATERIAL: 0-8" T.S.
8-29" S.L.
29-8" SANDY TILL -FIRM

TEST PIT: 6
DATE: 1996
DEPTH: 52"
MOTTLING: 18"
GROUNDWATER: 22"
MATERIAL: 0-11" T.S.
11-22" F.S.L.
22-52" GLACIAL TILL

TEST PIT: 7
DATE: 1996
DEPTH: 24"
MOTTLING: -
GROUNDWATER: 22"
MATERIAL: 24" HARD PAN (CONTROL HOLE FOR MOTTLING)

TEST PIT: 8
DATE: 1996
DEPTH: 88"
MOTTLING: 26"
GROUNDWATER: -
MATERIAL: 0-9" T.S.
9-27" F.S.L.
27-88" SANDY TILL -FIRM

TEST PIT: 9
DATE: 3-31-05
DEPTH: 49"
MOTTLING: 32"
GROUNDWATER: 39"
LEDGE: 49"
ROOTS: 32"
MATERIAL: 0-10" TOPSOIL
10-32" FINE SANDY LOAM
32-49" SANDY TILL COMPACT

TEST PIT: 10
DATE: 3-31-05
DEPTH: 57"
MOTTLING: 28"
GROUNDWATER: 28"
LEDGE: 57"
ROOTS: 28"
MATERIAL: 0-10" TOPSOIL
10-29" FINE SANDY LOAM
29-57" SANDY COMPACT TILL

TEST PIT: 11
DATE: 3-31-05
DEPTH: 58"
MOTTLING: 35"
GROUNDWATER: 46"
LEDGE: 58"
ROOTS: 42"
MATERIAL: 0-7" TOPSOIL
7-37" SANDY LOAM
37-58" SANDY TILL COMPACT

TEST PIT: 12
DATE: 3-31-05
DEPTH: 62"
MOTTLING: 27"
GROUNDWATER: 27"
LEDGE: 62"
ROOTS: 27"
MATERIAL: 0-10" TOPSOIL
10-27" F.S.L.
27-62" SANDY TILL

TEST PIT: 13
DATE: 3-31-05
DEPTH: 49"
MOTTLING: 25"
GROUNDWATER: 28"
LEDGE: 49"
ROOTS: 27"
MATERIAL: 0-8" TOPSOIL
8-27" SILT LOAM
27-49" SANDY TILL COMPACT

TEST PIT: 14
DATE: 3-31-05
DEPTH: 68"
MOTTLING: 29"
GROUNDWATER: 30"
LEDGE: 68"
ROOTS: 29"
MATERIAL: 0-10" TOPSOIL
10-30" F.S.L.
30-68" COMPACT SANDY TILL

TEST PIT: 15
DATE: 3-31-05
DEPTH: 87"
MOTTLING: 30"
GROUNDWATER: 49"
LEDGE: 87"
ROOTS: 36"
MATERIAL: 0-9" TOPSOIL
9-33" BR. F.S.L.
33-87" COMPACT SANDY TILL (SOME ROTTEN ROCK)

TEST PIT: 16
DATE: 3-31-05
DEPTH: 55"
MOTTLING: 28"
GROUNDWATER: 28"
LEDGE: 55"
ROOTS: 25"
MATERIAL: 0-6" TOPSOIL
6-28" SILT LOAM
28-55" COMPACT TILL



WETLAND PLANTINGS

AREAS ALONG SIDES OF DRIVEWAY THROUGH WETLAND CORRIDOR TO BE PLANTING WITH THE FOLLOWING SPECIES. ALL NON-NATIVE, INVASIVE PLANT SPECIES SHALL BE IDENTIFIED AND REMOVED FROM THIS AREA PRIOR TO PLANTING. ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE TOWN OF ANDOVER WETLANDS AGENT.

COMMON NAME	BOTANICAL NAME	SPACING	SIZE
WINTERBERRY HOLLY	ILEX VERTICILLATA	5 FEET	18"-24"
HIGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	5 FEET	18"-24"

AREA TO BE PLANTED

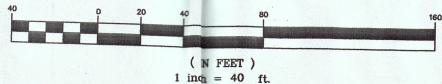
LOT AREA = 86,254 S.F.
= 1.98 AC.

ZONE: ANDOVER LAKE DISTRICT

LEGEND

EXIST. IRON PIN ●
PROP. IRON PIN ○
EXIST. STONE WALL ○○○○○○○○○○○
PROP. FTG/FDN DRAIN —FD—
EXIST. TREE LINE ————
PROP. CLEARING ————
EXIST. CONTOUR ————
PROP. CONTOUR ————
EXIST. SPOT ELEV. 387.7
PROP. SPOT ELEV. 387.5

GRAPHIC SCALE



REFERENCE MADE TO MAP TITLED:

"LAND TO BE CONVEYED TO WINFRED W. AND BERNICE F. DEMAY AND RONALD S. BOCKUS BY THE ANDOVER LAKE CORPORATION ANDOVER, CONN. SCALE: 1"=100' APRIL 1943" BY WINFRED W. DEMAY, C.E.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTION 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC., ON SEPTEMBER 26, 1996. TYPE OF SURVEY: PROPERTY/BOUNDARY SURVEY BOUNDARY DETERMINATION CATEGORY: RESURVEY CLASS OF ACCURACY: A-2

JOHN L. HEAGLE

P.E. & L.S. # 9396

I HAVE REVIEWED THE WETLAND BOUNDARIES AS SHOWN ON THIS PLAN AND AM OF THE OPINION THAT THEY REPRESENT THE SOIL BOUNDARIES MARKED IN THE FIELD.

MARK W. FRIEND
SOIL SCIENTIST

MEGSON & HEAGLE
CIVIL ENGINEERS & LAND SURVEYORS, LLC
81 RANKIN ROAD
GLASTONBURY, CONN. 06033
PHONE (860)-659-0587

SITE PLAN
LAKE ROAD
PREPARED FOR
ROBERT RICHARDS
ANDOVER, CONN.

REV. 8-25-03
CONDITIONS OF APPROVAL
BY TOWN OF ANDOVER

CK. BY: JLH
DRW. BY: JHS
DATE: 6-6-05
SCALE: 1"=40'
SHEET 1 OF 2
MAP NO. 212-95-1SP