

## TOWN OF SOUTHBOROUGH

PLAN NAME & ADDRESS

MAPLOT #

DESIGN FIRM & PHONE #

SIGNATURE OF PREPARER

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**NOTE: CHECK ITEMS THAT CONFORM WITH TITLE 5 AND THE SOUTHBOROUGH BOARD OF  
HEALTH REGULATIONS. ATTACH SHEET WITH EXPLANATION FOR EACH ITEM NOT CHECKED.**

### DESIGN CHECKLIST -- SEPTIC SYSTEM DESIGN PLANS

#### A. PLAN INFORMATION

- ASSESSOR MAP/LOT #.
- STREET NAME; NUMBER IF KNOWN.
- OWNER NAME/ADDRESS
- FIRM NAME/ADDRESS
- APPLICATION AND FEE HAVE ABOVE INFORMATION

#### B. BASEPLAN / TOPOGRAPHIC SURVEY

- PROPERLY CONTOURED.
- PROPERTY LINE DEFINED.
- PROPERTY CORNER. MONUMENTS OR REFERENCES.
- WETLANDS, STREAMS, BROOKS, PONDS;  
RE: 310 CMR 10.00.
- EXISTING UTILITIES; WATERLINES, STORM DRAINS, GAS MAINS, UNDERGROUND ELECTRIC & TELEPHONE.
- PHYSICAL SITE FEATURES; STONE WALLS, LEDGE OUTCROPS, LARGE TREES, TELEPHONE POLES.
- TEST HOLE LOCATIONS.
- ABUTTING PROPERTIES; LOCATION OF WELLS, SEPTIC SYSTEM, WETLANDS...
- BENCHMARK IDENTIFIED WITH LOCATION AND ELEVATION.

#### C. SYSTEM SIZING AND DESIGN CALCULATIONS

- PERCOLATION TESTS; RATES, LOCATIONS, DEPTHS, AND APPLICABILITY TO SYSTEM.
- DESIGN FLOW RATE 15.02(13).
- LEACHING AREA REQUIREMENTS 15.03(4).
- SYSTEM TYPE; TRENCHES, PITS, GALLEYS, CHAMBERS, FIELDS (CALCULATE SIDEWALL AND BOTTOM AREA).
- SPACING BETWEEN COMPONENTS.
- SEPTIC TANK SIZE; 1500 GALLON
- FLOW OVER 2000 GPD; PERC OF 20 MPI OR BETTER.
- FLOW OVER 5000 GPD; ALTERNATING LEACHING AREAS.
- FLOW OVER 15,000 GPD; NOT PERMITTED.
- SANITARY TEES REQUIRED.

#### D. SYSTEM ELEVATIONS.

- DEEP TEST HOLES; SOIL STRATIGRAPHY AND WATER TABLE.
- PERCOLATION TEST DEPTHS.
- DO DEEP TESTS AND PERCOLATION TESTS
- DEMONSTRATE 4 FEET OF PERVERSIVE MATERIAL PER 15.03(4) AND 15.03(6).
- DO DEEP TESTS ESTABLISH A GROUND WATER PROFILE THROUGHOUT THE SYSTEM?
- SYSTEM BOTTOM 4 FEET ABOVE HIGH WATER TABLE.
- LEACHING LINES; MINIMUM SLOPE OF 0.005 FT/FT.
- BUILDING SEWER; MINIMUM SLOPE OF

0.01 FT/FT.

- TOP OF FOUNDATION; ADEQUATE COVER OVER BUILDING SEWER.

#### E. EXPANSION SYSTEM

- SEPARATE AREA OR BETWEEN TRENCHES.
- SUFFICIENT TESTING.

#### F. SYSTEM OFFSETS

- DISTANCE TO WELLS.
- DISTANCE TO PUBLIC WATER SERVICE.
- DISTANCE TO WETLANDS.
- DISTANCE TO DRAINS.
- DISTANCE TO FOUNDATION.
- OFFSET TO PROPERTY LINES.

#### G. SYSTEM GRADING

- FILL SYSTEM? 10 FOOT GRUB? 25 FOOT GRUB?  
SEE 15.02(17).
- COVER OVER SYSTEM; INVERT PLUS 1.5 FEET.
- BREAKOUT SLOPE; BREAKOUT ELEVATION =  
INVERT + 0.5 FEET AT A DISTANCE OF 150/SLOPE RATIO.
- DRAINAGE; 2 PERCENT SLOPE OVER SYSTEM.
- EASEMENTS REQUIRED?

#### H. SITE GRADING

- GRADING AROUND HOUSE.
- DRIVEWAY GRADING.
- GARAGE; UNDER OR ATTACHED AND IMPACT UPON SYSTEM.
- DRAINAGE; OVERALL GRADING PLAN TO HANDLE DRAINAGE IMPACT ON ABUTTING LOTS.

#### I. VARIANCES REQUESTED

LOCAL UPGRADE APPROVAL ONLY  
D.E.P. AND B.O.H. APPROVAL

**[Form Rev. 11/8/93 6/23/93 (8/11/92)]**