

## TOWN OF SOUTHBOROUGH

PLAN NAME & ADDRESS

MAPLOT #

DESIGN FIRM & PHONE #

SIGNATURE OF PREPARER

**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 PERVIOUS 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)]**