

| AREAS | R.L. (INCH) | S (%) | PERCOLATION (M.P.I.) | H.F. | F.F. | P.F. | R.M.L.S.S. (L.F.) | P.L.S.S. (L.F.) | R.T.E.L.L. (L.F.) | P.T.E.L.L. (L.F.) |
|-------|-------------|-----------|----------------------|------|------|------|-------------------|-----------------|-------------------|-------------------|
| A | 24.8 | 10.1-15.0 | 10-20 | 26 | 16.5 | 1.5 | 643.5 | 648.0 | 1,141 | 1,252 |
| B | 24.5 | 10.1-15.0 | 10-20 | 26 | 15.0 | 1.5 | 585.0 | 594.0 | 1,037 | 1,162 |
| C | 32.2 | 8.1-10.0 | 10-20 | 24 | 14.0 | 1.5 | 504.0 | 514.0 | 968 | 970 |
| D | 36.4 | 8.1-10.0 | 20-30 | 20 | 8.0 | 2.0 | 320.0 | 334.0 | 646 | 668 |

SEPTIC SYSTEM DESIGN:

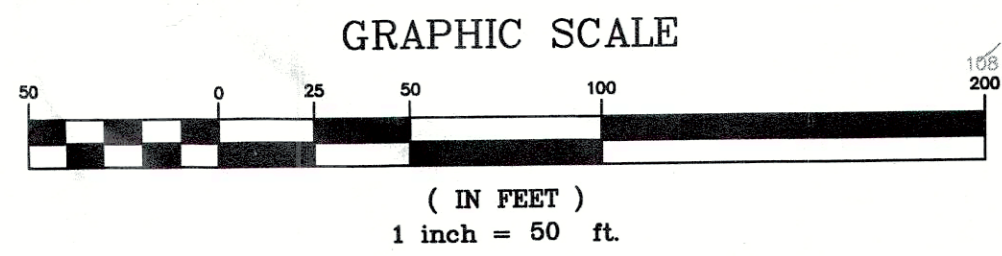
LOT "A"
 REQUIRED:
 1. DESIGN FLOW: 33 BEDROOMS @ 150 GPD = 4,950 GPD
 2. APPLICATION RATE: PERCOLATION RATE - 10.1 TO 20 MIN/INCH FROM TABLE 7 = 0.7 GPD/S.F.
 3. REQUIRED EFFECTIVE LEACHING AREA: DESIGN FLOW / APPLICATION RATE = 4,950 GPD / 0.7 GPD/S.F. = 7,071.43 S.F.
 4. UNIT SIZE USED FOR SEPTIC SYSTEM DESIGN: 18" HEIGHT CONCRETE GALLERIES WITH UNIT EFFECTIVE LEACHING AREA = 6.2 S.F./L.F.
 5. REQUIRE TOTAL LEACHING TRENCH LENGTH = REQUIRED EFFECTIVE LEACHING AREA / UNIT EFFECTIVE LEACHING AREA = 7,071.43 S.F. / 6.2 S.F./L.F. = 1,141 L.F.
 PROVIDED:
 1. PROVIDED TOTAL LEACHING TRENCH LENGTH = 1,292.0 L.F.
 2. PROVIDED EFFECTIVE LEACHING AREA: TOTAL LEACHING TRENCH LENGTH X UNIT EFFECTIVE LEACHING AREA = 1,292 L.F. X 6.2 S.F./L.F. = 8,010.4 S.F.
 3. DESIGN FLOW: EFFECTIVE LEACHING AREA X APPLICATION RATE = 8,010.4 S.F. X 0.7 GPD/S.F. = 5,607 GPD

LOT "B"
 REQUIRED:
 1. DESIGN FLOW: 30 BEDROOMS @ 150 GPD = 4,500 GPD
 2. APPLICATION RATE: PERCOLATION RATE - 10.1 TO 20 MIN/INCH FROM TABLE 7 = 0.7 GPD/S.F.
 3. REQUIRED EFFECTIVE LEACHING AREA: DESIGN FLOW / APPLICATION RATE = 4,500 GPD / 0.7 GPD/S.F. = 6,428.57 S.F.
 4. UNIT SIZE USED FOR SEPTIC SYSTEM DESIGN: 18" HEIGHT CONCRETE GALLERIES WITH UNIT EFFECTIVE LEACHING AREA = 6.2 S.F./L.F.
 5. REQUIRE TOTAL LEACHING TRENCH LENGTH = REQUIRED EFFECTIVE LEACHING AREA / UNIT EFFECTIVE LEACHING AREA = 6,428.57 S.F. / 6.2 S.F./L.F. = 1,037 L.F.
 PROVIDED:
 1. PROVIDED TOTAL LEACHING TRENCH LENGTH = 1,162.0 L.F.
 2. PROVIDED EFFECTIVE LEACHING AREA: TOTAL LEACHING TRENCH LENGTH X UNIT EFFECTIVE LEACHING AREA = 1,162 L.F. X 6.2 S.F./L.F. = 7,204.4 S.F.
 3. DESIGN FLOW: EFFECTIVE LEACHING AREA X APPLICATION RATE = 7,204.4 S.F. X 0.7 GPD/S.F. = 5,043 GPD

LOT "C"
 REQUIRED:
 1. DESIGN FLOW: 28 BEDROOMS @ 150 GPD = 4,200 GPD
 2. APPLICATION RATE: PERCOLATION RATE - 10.1 TO 20 MIN/INCH FROM TABLE 7 = 0.7 GPD/S.F.
 3. REQUIRED EFFECTIVE LEACHING AREA: DESIGN FLOW / APPLICATION RATE = 4,200 GPD / 0.7 GPD/S.F. = 6,000.0 S.F.
 4. UNIT SIZE USED FOR SEPTIC SYSTEM DESIGN: 18" HEIGHT CONCRETE GALLERIES WITH UNIT EFFECTIVE LEACHING AREA = 6.2 S.F./L.F.
 5. REQUIRE TOTAL LEACHING TRENCH LENGTH = REQUIRED EFFECTIVE LEACHING AREA / UNIT EFFECTIVE LEACHING AREA = 6,000 S.F. / 6.2 S.F./L.F. = 968 L.F.
 PROVIDED:
 1. PROVIDED TOTAL LEACHING TRENCH LENGTH = 970 L.F.
 2. PROVIDED EFFECTIVE LEACHING AREA: TOTAL LEACHING TRENCH LENGTH X UNIT EFFECTIVE LEACHING AREA = 970 L.F. X 6.2 S.F./L.F. = 6,014.0 S.F.
 3. DESIGN FLOW: EFFECTIVE LEACHING AREA X APPLICATION RATE = 6,014 S.F. X 0.7 GPD/S.F. = 4,210 GPD

LOT "D"
 REQUIRED:
 1. DESIGN FLOW: 6 BEDROOMS @ 150 GPD = 2,400 GPD
 2. APPLICATION RATE: PERCOLATION RATE - 20.1 TO 30 MIN/INCH FROM TABLE 7 = 0.6 GPD/S.F.
 3. REQUIRED EFFECTIVE LEACHING AREA: DESIGN FLOW / APPLICATION RATE = 2,400 GPD / 0.6 GPD/S.F. = 4,000.0 S.F.
 4. UNIT SIZE USED FOR SEPTIC SYSTEM DESIGN: 18" HEIGHT CONCRETE GALLERIES WITH UNIT EFFECTIVE LEACHING AREA = 6.2 S.F./L.F.
 5. REQUIRE TOTAL LEACHING TRENCH LENGTH = REQUIRED EFFECTIVE LEACHING AREA / UNIT EFFECTIVE LEACHING AREA = 4,000.0 S.F. / 6.2 S.F./L.F. = 645.2 L.F.
 PROVIDED:
 1. PROVIDED TOTAL LEACHING TRENCH LENGTH = 972.0 L.F.
 2. PROVIDED EFFECTIVE LEACHING AREA: TOTAL LEACHING TRENCH LENGTH X UNIT EFFECTIVE LEACHING AREA = 972 L.F. X 6.2 S.F./L.F. = 6,026.4 S.F.
 3. DESIGN FLOW: EFFECTIVE LEACHING AREA X APPLICATION RATE = 6,026.4 S.F. X 0.6 GPD/S.F. = 3,616 GPD

R.M.L.S.S. = REQUIRED MINIMUM LEACHING SYSTEM SPREAD
 S = HYDRAULIC GRADIENT
 R.L. = DEPTH OF RESTRICTIVE LAYER
 H.F. = HYDRAULIC FACTOR
 F.F. = FLOW FACTOR
 P.F. = PERCOLATION FACTOR
 R.T.E.L.L. = REQUIRED TOTAL EFFECTIVE LEACHING LENGTH
 P.T.E.L.L. = PROPOSED TOTAL EFFECTIVE LEACHING LENGTH
 P.L.S.L. = PROPOSED LEACHING SYSTEM SPREAD



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 Telephone: (860) 436-4364
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PROPOSED AFFORDABLE HOUSING DEVELOPMENT
 320 KINGS HIGHWAY
 NORTH HAVEN, CONNECTICUT 06473
 OWNER/APPLICANT:

| NO. | DATE | REVISIONS | BY | CHK | APPV |
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DRAWN BY: FV CHECKED BY: RL SCALE: 1"=50' DATE: 12/XX/2014

THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND SEAL
 RICHARD E. COUCH P.E.

| SITE PLAN | | |
|-----------------------------------|---------------------------------|-------|
| SUBSURFACE SEWAGE DISPOSAL SYSTEM | | |
| JOB NO. | DRAWING NUMBER | SHEET |
| 33-328 | 2014_12_17 Concept Site Plan FV | C-3 |