

| PERCOLATION TEST                             |               |       |  | PERCOLATION TEST                                              |               |                   |  |
|----------------------------------------------|---------------|-------|--|---------------------------------------------------------------|---------------|-------------------|--|
| PERFORMED 8/18/07 BY PATRICK LAFAYETTE, P.E. |               |       |  | PERFORMED 8/27/07 BY C. CAULKINS, LEDGE LIGHT HEALTH DISTRICT |               |                   |  |
| DEPTH: 28"                                   |               |       |  | PT-A (ADJ. TH-A)                                              |               |                   |  |
| PRESSURE: 5.00 AM                            |               |       |  | DEPTH: TOTAL 50", 21" BELOW REF.                              |               |                   |  |
| REF: 10.30 AM                                |               |       |  | PRESSURE:                                                     |               |                   |  |
| TIME                                         | MEASURE (in.) | DROP  |  | TIME                                                          | MEASURE (in.) | DROP              |  |
| 10:30                                        | 7 1/2         | ---   |  | TIME                                                          | MEASURE (in.) | DROP              |  |
| 10:40                                        | 12            | 1 1/2 |  | 10:12                                                         | 14.25 = SOAK  | 12" = SOAK        |  |
| 10:45                                        | 13 1/2        | 1 1/2 |  | 10:14                                                         | 12.5 = REFILL | 9:45 13" = REFILL |  |
| 10:50                                        | 14 1/2        |       |  | 10:15                                                         | 15.25         | 10:50 16.5        |  |
| 10:55                                        | 15 1/2        |       |  | 10:16                                                         | 16.5          | 9:51 19           |  |
| 11:00                                        | 16 1/2        |       |  | 10:17                                                         | 17.5          | 9:54 20.5         |  |
| 11:05                                        | 17 1/2        |       |  | 10:18                                                         | 18.25         | 9:57 22 = DRY     |  |
| PERC RATE: 5 MIN/INCH                        |               |       |  | PERC RATE: 1 MIN/INCH                                         |               |                   |  |

1. INSTALLER SHALL SUBMIT SCALED AND/OR TIED AS-BUILT TO LEDGE LIGHT HEALTH DISTRICT UPON 30 DAYS OF COMPLETION WITH DISTANCES TO FLOW LINE AT BUILDING, INLET AND OUTLET COVER OF TANK, D-BOXES, CLEANOUTS AND ENDS OF LEACHING ROWS, WELL, FOOTING/CURTAIN DRAINS AND BETWEEN TEI POINTS. PLAN SHALL INCLUDE NAME OF INSTALLER, DATE, BUILDING LOCATION, STREET NAME, AND NORTH ARROW.
2. A RECORD DRAWING (AS-BUILT) PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER IS TO BE SUBMITTED AND APPROVED BY THE LHLD PRIOR TO ISSUANCE OF A PERMIT TO DISCHARGE.
3. EXISTING SEPTIC SYSTEM INCLUDING TANK AND TRENCHES TO BE ABANDONED TO ACCOMMODATE DEVELOPMENT OF EASTERN LOT TO BE SPLIT FROM PROPERTY. CONSTRUCTION REQUIREMENTS ARE INCORPORATED INTO SITE PLANS FOR PROPOSED CVS/PHARMACY PREPARED BY VHB DATED 8/24/2011 AS REVISED.
4. THE EXISTING WELL SHALL BE ABANDONED IN ACCORDANCE WITH CT. WELL DRILLING CODE REGULATIONS.
5. EXISTING INVERT FROM BUILDING OBTAINED FROM FIELD INVESTIGATION ON SEPT. 29, 2011. A 6" CAST IRON PIPE WAS LOCATED APPROXIMATELY 56 FT FROM SOUTH BUILDING CORNER. THE TOP OF PIPE WAS FOUND TO BE APPROXIMATELY 3 FT± FROM SURFACE GRADE.
6. THE SEPTIC TANK SHALL BE A 5000 GALLON TWO COMPARTMENT TANK AND SHALL BE PROPERLY BAFFLED AT THE INLET AND OUTLET. THE TANK WILL BE WATERTIGHT AND RATED FOR HS-20 LOADING. OPENINGS SHALL BE PROVIDED WITH GASKET FITTINGS OR SHALL BE CORED TO FIT WATERTIGHT COMPRESSION FITTINGS TO ENSURE WATERTIGHT PIPE INSTALLATIONS. TANK SHALL ALSO BE PROVIDED WITH WATERTIGHT MANHOLE RISERS TO FINISH GRADE WITH WATERTIGHT FRAME AND COVERS RATED FOR HS-20 LOADING. TANK, PIPE OPENINGS, AND RISERS SHALL BE TESTED FOR WATERTIGHTNESS.
7. THE PIPE BETWEEN THE BUILDING AND SEPTIC TANK SHALL BE 6" PVC SCHEDULE 40 PIPE AT MINIMUM SLOPE OF 1/8" PER FOOT CONFORMING TO THE LATEST TECHNICAL STANDARDS FOR THE DESIGN AND CONSTRUCTION OF SUBSURFACE DISPOSAL SYSTEMS OF THE PUBLIC HEALTH CODE APPROVED SEWER PIPE.
8. THE BOTTOM OF EACH TRENCH AND LEACHING GALLERY SHALL BE LEVEL THROUGHOUT. DISTAL ENDS OF LEVEL LEACHING GALLERIES SHALL BE CONNECTED WITH 4" SOLID PVC SDR 35 TYPE PIPE. MANHOLE RISERS TO GRADE WITH WATERTIGHT FRAME AND COVER SHALL BE PROVIDED AT LEAST AT ONE END OF EACH ROW OF LEACHING GALLERIES.
9. ALL TOPSOIL IN VICINITY OF THE PROPOSED LEACHING SYSTEM AREA WILL BE REMOVED BEFORE FILLING THE AREA. IN ACCORDANCE WITH TECHNICAL STANDARDS SECTION VIIA THE SUBSOIL SHALL BE SCARIFIED PRIOR TO SELECT FILL PLACEMENT. INSTALLER SHALL TAKE THE NECESSARY STEPS TO PROTECT UNDERLYING RECEIVING SOIL FROM OVER-COMPACTION OR DAMAGE.
10. THE SEPTIC TANK AND LEACHING ROWS ARE TO BE STAKED WITH GRADE STAKES/OFFSETS PRIOR TO APPLYING FOR SEPTIC PERMIT.
11. ALL DISTRIBUTION BOXES SHALL BE PLACED ON 6" COMPACTED GRAVEL BASE TO PREVENT HEAVING OR SETTLING.
12. INLETS AND OUTLETS OF THE SEPTIC TANK AND DISTRIBUTION BOXES WILL BE MORTARED ONCE THE SEWER PIPES ARE INSTALLED.
13. THE CONTRACTOR SHALL VERIFY AND CHECK THE BENCHMARKS AS SHOWN ON THIS PLAN PRIOR TO THE CONSTRUCTION OF THE SYSTEM.
14. THE FILL MATERIAL QUALITY AND ELEVATIONS SHOULD BE CHECKED AND APPROVED PRIOR TO ACTUAL SYSTEM INSTALLATION.
15. THE PROPERTY LINES, BUILDING, AND THE SEPTIC SYSTEM WILL BE STAKED OUT BY A QUALIFIED SURVEYOR PRIOR TO INSTALLATION OF THE SEPTIC SYSTEM.
16. ALL MATERIALS AND CONSTRUCTION WILL BE IN CONFORMANCE WITH THE MOST RECENT STATE AND LOCAL HEALTH CODES.
17. SEPTIC FILL MUST MEET THE FOLLOWING REQUIREMENTS:
  - A. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SIEVE.
  - B. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE. (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
  - C. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN RE-WEIGHED AND THE SIEVE ANALYSIS STARTED.
  - D. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

NOTE: PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.

A. 24,138 S.F. (PER COMPUSSION WITH TOWN PLANNING AND EMAIL CONFIRMATION DATED MAY 31, 2011: DESIGNED FOR FLOW = 0.2 GPD/GROSS S.F. X 24,138 S.F. = 4,830 GPD)

B. 1-5,000 GALLON TWO COMPARTMENT TANK IN SERIES REQUIRED BY CODE AND PROVIDED

C. DESIGN PERCOLATION RATE: 5:1 TO 10 MIN/IN.

D. MINIMUM LEACHING SYSTEM SPREAD; RESTRICTIVE LAYER > 60" MLSS DOES NOT APPLY

E. EFFECTIVE LEACHING AREA REQUIRED PER CODE:  
4,830 / 1.5 APPLICATION RATE = 3,220 S.F. OF EFFECTIVE AREA

F. 24" HIGH X 48" WDE LEACHING GALLERIES (H=20 RATING) SELECTED  
EFFECTIVE LEACHING AREA PROVIDED PER L.F. PER CODE 6.8 S.F.  
MINIMUM LENGTH OF GALLERY REQUIRED: 3,220 SF/6.8 S.F./L.F. = 473.5 L.F.  
512 L.F. PROVIDED (DOSING NOT REQUIRED FOR LESS THAN 600 L.F.)

G. EFFECTIVE LEACHING AREA PROVIDED:  
2- 64' LONG X 24" HIGH X 48" WDE GALLERIES 6 X 64 X 6.8 S.F./L.F. = 2611.2 SF  
2- 48' LONG X 24" HIGH X 48" WDE GALLERIES 2 X 48 X 6.8 S.F./L.F. = 652.8 SF  
3264 SF

1. TEST PIT DATA, BUILDING LOCATION AND EXISTING GRADES DEPICTED ON THIS PLAN FOR THE TOWN PROPERTY IS BASED ON PLAN SHOWING GRADING, DRAINAGE, & UTILITIES FOR MEDICAL CENTER FOR CEFALU DEVELOPMENT 7 HURLBUTT RD MILITARY HIGHWAY DATED AUGUST 2007 REVISED MARCH 25, 2008 PREPARED BY DEITER & GARDNER.
2. DEVELOPMENT DEPICTED ON EASTERN PORTION OF SITE BASED ON PROPOSED CVS/PHARMACY SITE PLANS DATED AUGUST 24, 2011 AS AMENDED PREPARED BY VHB, INC.-SHOWN FOR REFERENCE. LOT LINE & DEVELOPMENT APPROVED AS SHOWN BY LEDYARD ZONING COMMISSION ON 9/22/2011.
3. PROPERTY BOUNDARY BASED ON ALTA/ACSM LAND TITLE SURVEY DATED APRIL 13, 2010 AND REVISED TO 5/19/2011 PREPARED BY VHB.



PROPOSED  
DEVELOPMENT  
SHOWN FOR  
REFERENCE —  
PURPOSES ONLY

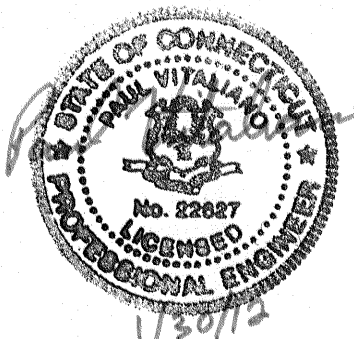
7 Hurlbutt Road

Gales Ferry  
Ledyard, Connecticut

### Local Approval

Not Approved for Construction

## Subsurface Sewage Disposal Plan



C-1

Sheet of  
1 2

Project Number  
41545.29

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