

CONSTRUCTION SEQUENCE (SANITARY SYSTEM)

1. NOTIFY TOWN HEALTH DEPARTMENT AND THE ENGINEER 24 - 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION FOR INSPECTION.
2. THE LICENSED INSTALLER SHALL BE ON SITE DURING SYSTEM CONSTRUCTION. WORK WILL BE STOPPED BY THE HEALTH DEPARTMENT IF THIS REQUIREMENT IS NOT COMPLIED WITH.
3. PLACE SYNTHETIC BARRIER AS SHOWN ON THE DRAWING AND IN THE DETAIL. REMOVE ALL TREES, STUMPS AND DELETERIOUS MATERIAL FROM SYSTEM AREA. STOCKPILE TOPSOIL FOR REUSE. DO NOT STOCKPILE TOPSOIL IN SANITARY SYSTEM AREA. REMOVE EXISTING SANITARY SYSTEM FROM SITE. SANITARIAN SHALL INSPECT REMOVAL OF AND SANITARY SYSTEM.
5. ENGINEER TO FIELD STAKE SEPTIC SYSTEM PRIOR TO CONSTRUCTION.
6. EXCAVATE FOR SANITARY SYSTEM. CONTACT SANITARIAN AND ENGINEER TO INSPECT STRIPPED AREA.
7. PREPARED AREA TO BE INSPECTED BY THE SANITARIAN OR ENGINEER BEFORE PLACING FILL.
8. PLACE FILL TO THE HORIZONTAL AND VERTICAL LIMITS SHOWN. THE FILL SHOULD BE PLACED AND COMPACTED IN 12 INCH LIFTS.
9. SELECT FILL MATERIAL SHALL MEET CRITERIA SET FORTH BELOW AND IN THE CONNECTICUT PUBLIC HEALTH CODE:

SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER. SELECT FILL EXCEEDING 6 PERCENT PASSING THE #200 SIEVE BASED ON A WET SIEVE TEST CANNOT BE APPROVED BY THE DESIGN ENGINEER.

A. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE(3) INCH SIEVE.

B. UP TO 45 PERCENT OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED IN THE #4 SIEVE. NOTE: THIS IS THE GRAVEL PORTION OF THE SAMPLE.

C. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTS AT THE #20 SIEVE.

D. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

SIEVE SIZE	PERCENT PASSING WET SIEVE	DRY SIEVE
#4	100	100
#10	70-100	70-100
#40	10-50*	10-75
#100	0-20	0-5
#200	0-5	0-2.5

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

- E. THE RESPONSIBILITY FOR THE PREPARATION OF A LEACHING AREA UTILIZING "SELECT MATERIAL" IS THAT OF THE LICENSED INSTALLER. THE INSTALLER SHALL TAKE THE NECESSARY STEPS TO PROTECT THE UNDERLYING NATURALLY OCCURRING SOILS FROM OVER COMPACTION AND SILTATION ONCE EXPOSED."
- F. FILL PLACEMENT MUST BE INSPECTED BY THE ENGINEER AND THE SANITARIAN.
- G. A SIEVE ANALYSIS OF THE FILL WILL BE REQUIRED AFTER IT IS DELIVERED TO THE SITE.
- H. THE COMMISSIONER OF PUBLIC HEALTH MUST APPROVE MANUFACTURED FILL. ROCK USED TO PRODUCE MANUFACTURED FILL MUST HAVE A LOSS OF ABRASION OF NOT MORE THAN 50 PERCENT USING AASHTO METHOD T-96. SUPPLIERS OF MANUFACTURED FILL MUST MAKE APPLICATION FOR APPROVAL TO THE COMMISSIONER OF PUBLIC HEALTH. DOCUMENTATION MUST BE SUBMITTED ON THE QUARRY OPERATION, AND PRODUCTION PROCESS. FILL SPECIFICATIONS (GRADATION, PERMEABILITY, ETC) AND A NARRATIVE OF THE QUALITY CONTROL/QUALITY ASSURANCE PROGRAM MUST ALSO BE INCLUDED. THE MANUFACTURED FILL PRODUCERS MUST PROVIDE ANNUAL PRODUCT REGISTRATIONS TO THE COMMISSIONER OF PUBLIC HEALTH.
10. INSTALL SEPTIC TANK
- A. IF SOIL CONDITIONS OTHER THAN THOSE SHOWN IN THE SOIL LOGS ARE ENCOUNTERED DURING THE INSTALLATION OF THE SANITARY SYSTEM, THE DESIGN ENGINEER OR THE SANITARIAN SHALL BE NOTIFIED AND THE WORK WILL BE HALTED PENDING REVIEW OF THOSE CONDITIONS. IF NECESSARY THE SANITARY SYSTEM SHALL BE REVISED.
- B. A MINIMUM OF 4 FEET MUST BE MAINTAINED BETWEEN THE BOTTOM OF THE SYSTEM AND LEDGE. A MINIMUM OF 2.0 FEET MUST BE MAINTAINED BETWEEN THE BOTTOM OF THE SYSTEM AND SEASONAL HIGH GROUNDWATER.
- C. THE SANITARY SYSTEM SHOWN HEREON MUST BE CONSTRUCTED TO THE HORIZONTAL ALIGNMENT AND VERTICAL ALIGNMENT SHOWN, UNLESS EXPRESSLY DIRECTED BY THE ENGINEER IN WRITING AND WITH THE APPROVAL OF THE TOWN SANITARIAN.
11. THE INSTALLER SHOULD NOTIFY THE ENGINEER AND SANITARIAN AS SOON AS POSSIBLE, BUT AT LEAST 24 HOURS IN ADVANCE OF BEING READY FOR A FINAL INSPECTION. THE ENGINEER AND SANITARIAN SHALL CONDUCT THE FINAL INSPECTION TOGETHER WITH THE LICENSED INSTALLER.
12. NO SYSTEM IS TO BE BACKFILLED UNTIL THE SANITARIAN HAS APPROVED THE INSTALLATION. THE APPROVAL WILL NOT BE GIVEN UNTIL THE ENGINEER HAS PROVIDED WRITTEN OR VERBAL COMMUNICATION THAT THE SYSTEM IS INSTALLED IN COMPLIANCE WITH THE HEALTH CODE AND THEIR DESIGN, OR WITH ACCEPTABLE MODIFICATIONS.
13. THE LICENSED INSTALLER SHALL, PROPERLY COVER THE LEACHING SYSTEM WITHIN TWO (2) WORKING DAYS FOLLOWING THE LOCAL HEALTH DEPARTMENTS AND THE DESIGN ENGINEERS FINAL INSPECTION AND APPROVAL.
14. REPLACE TOPSOIL, GRADE, SEED AND MULCH ALL DISTURBED AREAS.
15. MAINTAIN SYNTHETIC FILTER BARRIER UNTIL ALL DISTURBED AREAS ARE STABILIZED.
16. THE ENGINEER SHALL PROVIDE THE SEPTIC SYSTEM AS-BUILT (RECORD DRAWING), CERTIFYING THAT THE SYSTEM IS CODE COMPLIANT, THE AS-BUILT SHALL HAVE THE FOLLOWING ELEVATIONS: HOUSE SEWER AT HOUSE AND TANK. TANK PIPE INVERTS, PIPE INVERTS IN AND OUT OF ALL D-BOXES, HIGH LEVEL OVERFLOWS, TOP OR BOTTOM LEACHING ELEVATIONS.

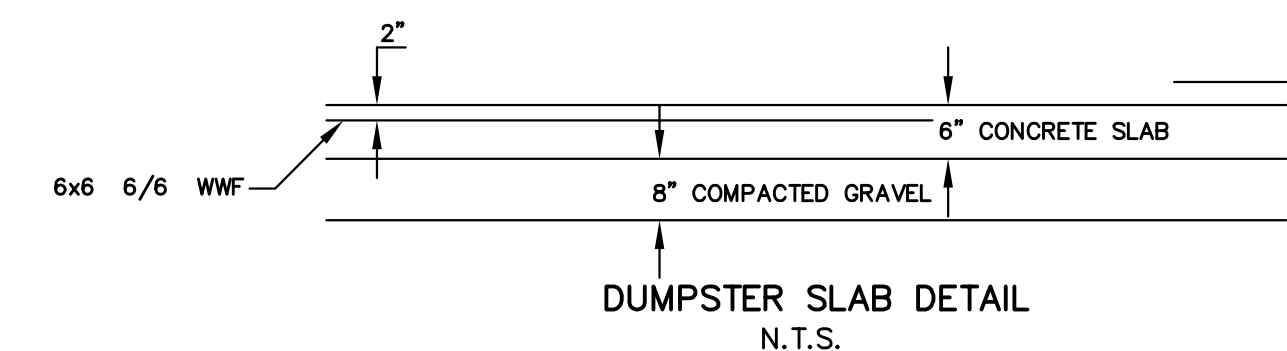
BUILT RIGHT HOMES
GROUND WATER MONITORING '09
1961 BOSTON POST ROAD
WESTBROOK,CT

MW 1
TOP OF PIPE TO GRADE = 2.12
TOP OF PIPE TO BOTTOM OF PIPE = 9.66
GRADE ELEVATION AT PIPE = 14.0

DATE	TOP OF PIPE TO GROUND WATER	DEPTH BELOW GRADE	GROUND WATER ELEVATION
03/16/09	8.27	6.15	7.85
03/23/09	8.47	6.35	7.65
03/30/09	8.39	6.27	7.73
04/06/09	8.19	6.07	7.93
04/13/09	7.90	5.78	8.22
04/20/09	7.71	5.59	8.41
04/27/09	7.97	5.67	8.33
05/04/09	8.28	6.16	7.84
05/11/09	8.24	6.12	7.88

MW 2
TOP OF PIPE TO GRADE = 2.25
TOP OF PIPE TO BOTTOM OF PIPE = 9.45
GRADE ELEVATION AT PIPE = 15.5

DATE	TOP OF PIPE TO GROUND WATER	DEPTH BELOW GRADE	GROUND WATER ELEVATION
03/16/09	DRY		<8.3
03/23/09	DRY		<8.3
03/30/09	DRY		<8.3
04/06/09	DRY		<8.3
04/13/09	DRY		<8.3
04/20/09	9.31	7.06	8.44
04/27/09	9.43	7.18	8.32
05/04/09	DRY		<8.3
05/11/09	DRY		<8.3



Test Hole Data
Performed by Mary Jane Engle, R.S. & Joseph Wren
3/17/05

TP 1
0 - 11" Topsoil
11 - 28" Brown, sandy loam
28 - 101" Stratified layers of tan, fine sand and medium to coarse sand
No ledge observed
No water observed
No mottling observed

TP 2
0 - 11" Topsoil
11 - 28" Brown sandy loam
28 - 109" Stratified layers of tan, fine sand and medium to coarse sand
No ledge observed
No water observed
No mottling observed

TP 3
0 - 10" Topsoil & black fill
10 - 28" Brown sandy loam
28 - 44" Tan, fine to medium sand
44 - 67" Gray/brown, very fine sand
No ledge observed
Groundwater observed at 62"
No mottling observed

Test Hole Data
Performed by Doane-Collins Eng. Assoc., LLC
& Richard E. Leighton, Town of Westbrook
7/10/07

TH A
0 - 13" Topsoil
13 - 38" Very fine, silty sand subsoil
38 - 56" Fine/medium, red/brown, silty sand
56 - 72" Medium, tan sand
No ledge observed
Groundwater observed at 56"
Mottling observed at 38"

TH B
0 - 12" Topsoil
12 - 28" Fine, silty, sand subsoil
28 - 48" Fine/medium, tan sand, medium/coarse sand stratified layers
48 - 91" Red sand
No ledge observed
No groundwater observed
No mottling observed

TH C
0 - 11" Topsoil
11 - 25" Fine, silty, sand subsoil
25 - 96" Stratified layers of medium/coarse, tan sands
42 - 55" Layer of red sand
No ledge observed
No groundwater observed
No mottling observed

TH D
0 - 9" Topsoil
9 - 34" Fine, silty, sand subsoil
34 - 100" Stratified layers of medium/coarse tan sands
No ledge observed
No groundwater observed
Mottling observed at 76" (rusty gravel)

TH E
0 - 9" Topsoil
9 - 25" Fine, silty, sand subsoil
25 - 58" Light brown, fine/medium sand
58 - 62" Very fine, silty sand with roots
62 - 91" Stratified layers of sands & gravels
No ledge observed
Groundwater observed at 89"
No mottling observed

TH F
0 - 9" Topsoil
9 - 42" Fine, silty, sand subsoil
42 - 90" Medium/coarse stratified sands & gravels
No ledge observed
Groundwater observed at 90"
Mottling observed at 53"

TH G
0 - 12" Topsoil
12 - 35" Fine, silty, sand subsoil
35 - 91" Tan, medium/coarse sand, stratified layers of gray fine sand
No ledge observed
No groundwater observed

TH H
0 - 9" Topsoil
9 - 34" Fine, silty, sand subsoil
34 - 97" Stratified layers of medium sands
No ledge observed
No groundwater observed
No mottling observed

MW 3
TOP OF PIPE TO GRADE = 2.55
TOP OF PIPE TO BOTTOM OF PIPE = 9.51
GRADE ELEVATION AT PIPE = 15.5

DATE	TOP OF PIPE TO GROUND WATER	DEPTH BELOW GRADE	GROUND WATER ELEVATION
03/16/09	DRY		<8.54
03/23/09	DRY		<8.54
03/30/09	DRY		<8.54
04/06/09	DRY		<8.54
04/13/09	DRY		<8.54
04/20/09	DRY		<8.54
04/27/09	DRY		<8.54
05/04/09	DRY		<8.54
05/11/09	DRY		<8.54

MW 4
TOP OF PIPE TO GRADE = 2.09
TOP OF PIPE TO BOTTOM OF PIPE = 9.27
GRADE ELEVATION AT PIPE = 15.3

DATE	TOP OF PIPE TO GROUND WATER	DEPTH BELOW GRADE	GROUND WATER ELEVATION
03/16/09	DRY		<8.12
03/23/09	DRY		<8.12
03/30/09	DRY		<8.12
04/06/09	DRY		<8.12
04/13/09	DRY		<8.12
04/20/09	DRY		<8.12
04/27/09	DRY		<8.12
05/04/09	DRY		<8.12
05/11/09	DRY		<8.12

Percolation Rate
Performed by Joseph Wren
3/17/05

PT 1
D = 28" (in subsoil)
Diameter = 7"
Pre - Soak Depth 12"
Pre - Soak Time = 55 Minutes to Dry

TIME (MIN)	READING (IN)
0	12
6	9
12	7 1/2
18	6 1/8
24	4 7/8
30	3 3/4
36	2 3/4
42	DRY/SILTED

Percolation Rate = 6.0 min/in
Percolation test
Performed by Doane-Collins Eng. Assoc., LLC
7/19/07

PT1
d=38" Presoak - 28 min.

Time	Depth (in)	Change Depth (in)
10:59	24 1/2	
11:01	25 1/2	1
11:03	26 3/8	7/8
11:05	27	5/8
11:07	27 5/8	5/8
11:09	28 1/8	1/2
11:11	28 3/4	1/2
11:13	29 1/8	3/8
11:15	29 3/4	5/8
11:17	30	1/4
11:19	30 3/8	3/8
11:21	30 3/4	3/8
11:23	31	1/4
11:25	31 1/2	1/2
11:27	31 3/4	1/4
11:29	32	1/4
11:31	32 3/8	3/8
11:33	32 5/8	1/4

Percolation Rate = 8.0 min/in

PT2
d=34" Presoak - 27 min.

Time	Depth (in)	Change Depth (in)
1:12	21 1/4	
1:14	22 3/8	1 1/2
1:16	24 1/8	1 3/8
1:18	25 1/2	1 3/8
1:20	26 3/8	7/8
1:22	27 1/8	3/4
1:24	28	7/8
1:26	28 1/2	1/2
1:28	29	1/2

Percolation Rate = 2.67 min/in

PT3
d=30" Presoak - 27 min.

Time	Depth (in)	Change Depth (in)
1:13	16	
1:15	17 1/2	1 1/2
1:17	18 3/4	1 1/4
1:19	19 7/8	1 1/8
1:21	20 5/8	3/2
1:23	21 7/8	1 1/4
1:25	22 1/8	1/4
1:27	22 7/8	3/4
1:29	23 1/4	5/8
1:31	23 7/8	5/8

Percolation Rate = 2.67 min/in

Test Hole Data
Performed by Doane-Collins Eng. Assoc., LLC
Richard E. Leighton, Town of Westbrook
6/23/11

TH J
0 - 7" Topsoil
7 - 20" Fine silty sandy subsoil
20 - 62" Medium/coarse sand & gravel, stratified,
some red layers (not mottling)
62 - 72" Gray, fine/medium sand
72 - 96" Red/brown medium/coarse sand & gravel
96 - 108" Gray, medium sand
No ledge observed
Groundwater observed at 106"
Mottling observed at 90"

TH K
0 - 18" Topsoil
18 - 36" Red/brown, fine sandy subsoil
36 - 90" Stratified layers of medium sand and gravel-gray, medium/fine sand
90 - 96" Red coarse sand & gravel
No ledge observed
Groundwater observed at 90"
Mottling observed at 74"

Test Hole Data
Performed by Mary Jane Engle, R.S. & Joseph Wren
3/17/05

TP 4
0 - 15" Topsoil
15 - 33" Brown silt with little sand
33 - 47" Gray, fine sand, & silt
47 - 73" Brown, medium sand, wet
No ledge observed
Groundwater observed at 57"
Mottling observed at 47"

TP 5
0 - 10" Topsoil
10 - 32" Brown, sandy loam
32 - 90" Stratified layers of fine and medium to coarse sands
No ledge observed
Groundwater observed at 81"
No mottling observed

TP 6
0 - 16" Topsoil
16 - 42" Brown, sandy loam
42 - 47" Gray, very fine sand with silt
47 - 82" Gray/brown, very fine to fine sand
No ledge observed
Groundwater observed at 63"
Mottling observed at 47"

TP 7
0 - 12" Topsoil
12 - 21" Brown, silty sand
21 - 33" Gray/brown, fine sand, little silt
33 - 72" Stratified layers of medium to coarse, tan sands, trace gravel
No ledge observed
Groundwater observed at 29"
Mottling is assumed perched based on groundwater monitoring

TP 8
0 - 12" Topsoil
12 - 21" Brown, silty sand
21 - 33" Gray/brown, fine sand, little silt
33 - 72" Stratified layers of medium to coarse, tan sands, trace gravel
No ledge observed
Groundwater observed at 29"
Mottling is assumed perched based on groundwater monitoring

Percolation Rate = 16.0 min/in

Percolation Test
Performed by Joseph Wren
3/17/05

PT 3
D = 25" (in subsoil)
Diameter = 7"
Pre - Soak Depth 12"
Pre - Soak Time = ± 85 Minutes to Dry

TIME (MIN)	READING (IN)
0	12
6	10 3/4
12	9 7/8
18	9 1/8
24	8 1/2
30	7 7/8
36	7 3/8
42	6 7/8
48	6 3/8
54	5 7/8
60	5 1/2
66	5 1/8
END OF PERC TEST	

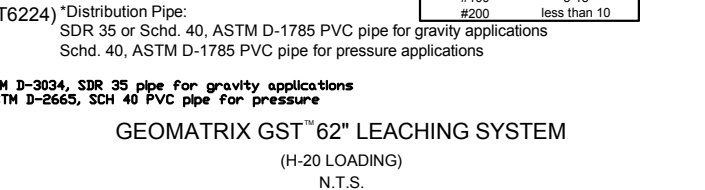
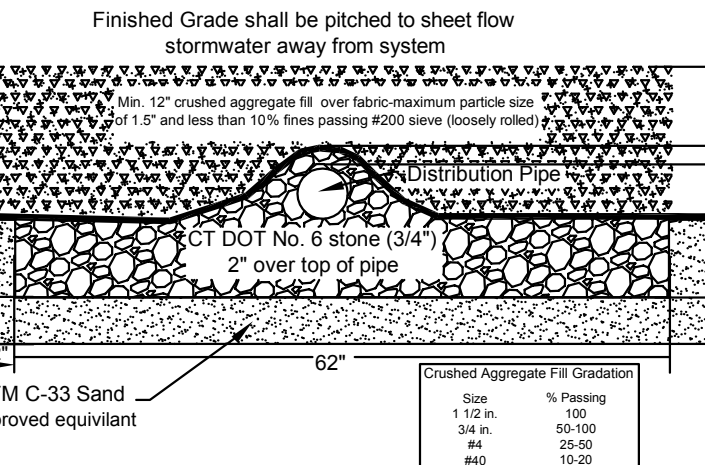
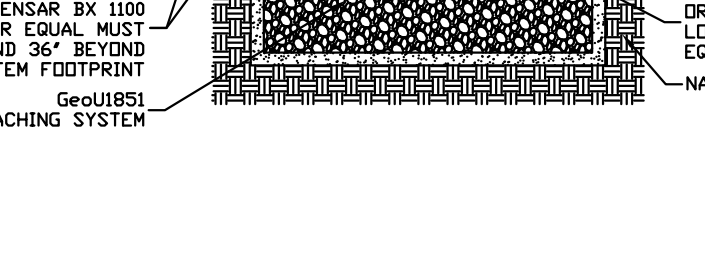
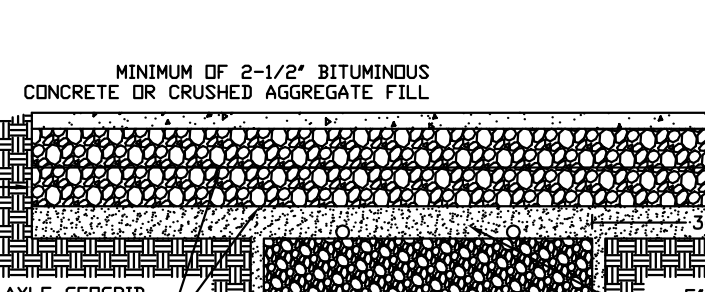
Percolation Rate = 16.0 min/in

Percolation Test
Performed by Joseph Wren
3/17/05

Sanitary System Design Criteria:
A. 1,443 SF - OFFICE BUILDING
DESIGN FLOW: 200 SF/EMPLOYEE
8 EMPLOYEES AT 20 GAL/DAY/EMPLOYEE = 160 GPD
PERCOLATION RATE = 6 MIN/IN
APPLICATION RATE = 1.5 GAL/SF
REQUIRED EFFECTIVE LEACHING AREA = 160 GPD/1.5 GAL/SF = 107 SF
PROVIDE 1,000 GALLON SEPTIC TANK
PROVIDE 100 PERCENT RESERVE AREA (INCLUDED WITH RESIDENTIAL BUILDING)

B. RESIDENTIAL BUILDING:
16 - 1 BEDROOM UNITS
8 - 2 BEDROOM UNITS
32 BEDROOMS TOTAL
REQUIRED EFFECTIVE LEACHING FROM TABLE 6
660 SF + (28)(165) = 660 + 4,620 = 5,280 SF + (OFFICE BUILDING) 107 SF = 5,387 SF TOTAL
2-150 LF ROWS OF GEOMATRIX - GST 6224
EFFECTIVE LEACHING PROVIDED = 2 X 150 LF X 18.1 SF = 5,430 SF
PROVIDE 6,000 GALLON SEPTIC TANK & A 3,500 GALLON SEPTIC TANK
PROVIDE 100 PERCENT RESERVE (GEOMATRIX GEOU 1851 H-20 LOADING)
3 ROWS (50', 60' AND 75') TOTAL 185 LF X 29.9 SF/LF=5,531 SF

DEPTH TO RESTRICTIVE LAYER > 60"
THEREFORE, MLLS NEED NOT BE CONSIDERED



Percolation Test
Performed by Joseph Wren
3/17/05

PT 1
D = 28" (in subsoil)
Diameter = 7"
Pre - Soak Depth 12"
Pre - Soak Time = 55 Minutes to Dry

TIME (MIN)	READING (IN)
0	12
6	9
12	7 1/2
18	6 1/8
24	4 7/8
30	3 3/4
36	2 3/4
42	DRY/SILTED

Percolation Rate = 6.0 min/in

Percolation Test
Performed by Joseph Wren
3/17/05

PT 2
D = 29" (in subsoil)
Diameter = 7"
Pre - Soak Depth 12"
Pre - Soak Time = 70 Minutes to Dry

TIME (MIN)	READING (IN)
0	12
6	9 3/4
12	8 3/4
18	7 5/8
24	6 3/4
30	6
36	5 1/4
42	4 5/8
48	4
54	3 3/8
60	2 7/8
66	2 1/2
72	DRY/SILTED

Percolation Rate = 16.0 min/in

Percolation Test
Performed by Joseph Wren
3/17/05

PT 3
D = 25" (in subsoil)
Diameter = 7"
Pre - Soak Depth 12"
Pre - Soak Time = ± 85 Minutes to Dry

TIME (MIN)	READING (IN)
0	12
6	10 3/4
12	9 7/8
18	9 1/8
24	8 1/2
30	7 7/8
36	7 3/8
42	6 7/8
48	6 3/8
54	5 7/8
60	5 1/2
66	5 1/8
END OF PERC TEST	

Percolation Rate = 16.0 min/in

Percolation Test
Performed by Joseph Wren
3/17/05

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16 - 1 BEDROOM UNITS
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EFFECTIVE LEACHING PROVIDED = 2 X 150 LF X 18.1 SF = 5,430 SF
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