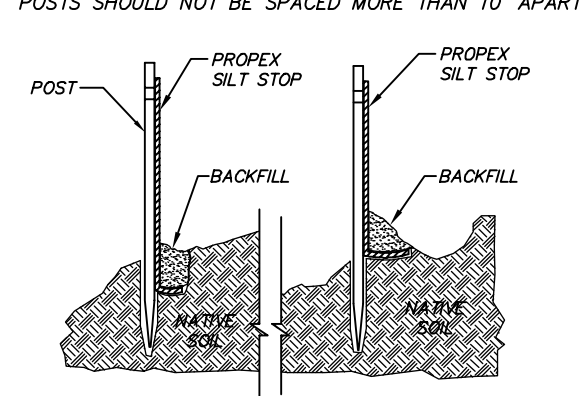


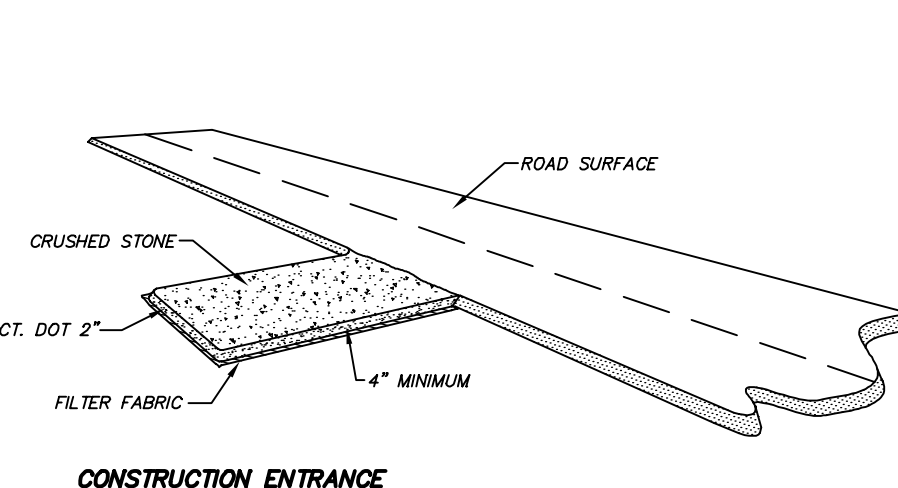
SEDIMENTATION AND EROSION CONTROLS
CONSTRUCTION STAGING

1. Install sedimentation and erosion controls and coordinate inspection by the engineer of record and the Environmental Commission staff before proceeding further.
2. Remove existing dwelling.
3. Mark and cut trees to be removed.
4. Rough in proposed driveways.
5. Strip topsoil and stockpile it with appropriate sedimentation control measures.
6. Excavate for proposed foundation.
7. Construct building foundation.
8. Backfill and rough grade around building foundation, stabilize all slopes.
9. Construct septic system.
10. Install water service, utilities, storm drainage and detention system.
11. Rough grade around septic system.
12. Construct driveway.
13. Fine grade and stabilize all slopes.
14. Landscape.
15. Remove sedimentation and erosion controls.

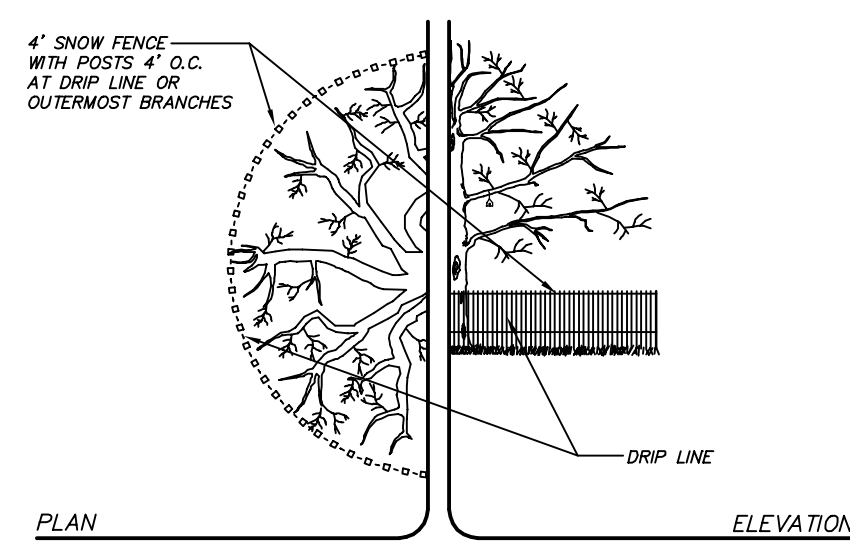
NOTE:
POSTS SHOULD NOT BE SPACED MORE THAN 10' APART



INSTALLATION DETAIL
SEDIMENT CONTROL FABRIC
N.T.S.



CONSTRUCTION ENTRANCE
N.T.S.



TREE PROTECTION
N.T.S.

Test Pit Data
30 Huckleberry Hill Road
New Canaan, Connecticut
Pits 30-1 & 30-2
Rocco V. D'Andrea w/ NCHD
April 13, 2005

Test Pit (30-1)
0" Topsoil
4" Red Brown Silty Loam
18" Yellow Brown Silty Loam
29" Compact Tan Gravel with Stones (Boney)
77" Roots to 35"
No Mottles
No Ledge
No GW
Restrictive Layer at 29"

Test Pit (30-2)
0" Topsoil
3" Red Brown Silty Loam
32" Yellow Brown Silty Loam
45" Compact Sand with Interlocking Stones
80" Roots to 45"
No Mottles
No Ledge
No GW
Restrictive Layer at 45"

Test Pit Data
30 Huckleberry Hill Road
New Canaan, Connecticut
Pits 1 & 2
Test pits were performed by Palladino
Septic Services and witnessed by the
NCHD FEB./MARCH OF 2005.

Test Pit (1)
0" Topsoil
9" Yellow Brown Silty Sand
36" Grey Hardpan
62" Ledge at 62"

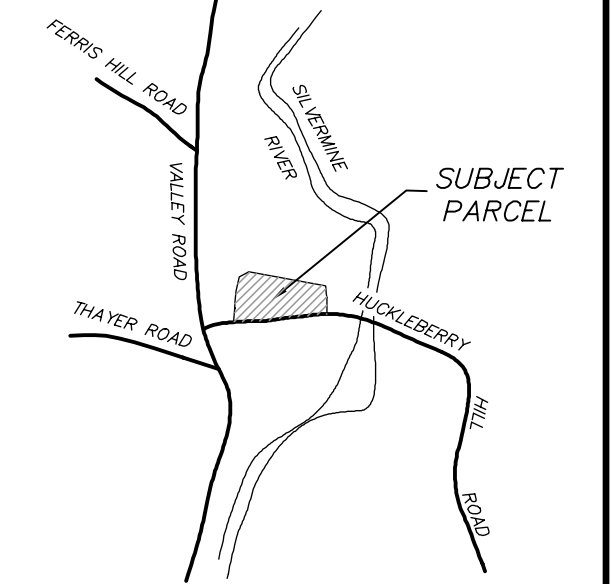
Test Pit (2)
0" Topsoil
6" Yellow Brown Silty Sand
38" Grey Hardpan
60" Ledge/Boulders at 60"

Test Pit Data
30 Huckleberry Hill Road
New Canaan, Connecticut
Pits 30-1 & 30-2
Rocco V. D'Andrea
June 22, 2006

Test Pit (6-22-1)
0" Topsoil
10" Red Brown Silty Loam
29" Tan Sandy Gravel
48" Ledge at 48"
Roots to 42"
No Mottles
No GW
Restrictive Layer at 48"

Test Pit (6-22-2)
0" Topsoil
6" Red Brown Silty Loam
24" Tan Sandy Gravel
53" Ledge at 53"
Roots to 36"
No Mottles
No GW
Restrictive Layer at 53"

ASSESSORS MAP 45 BLOCK 117 LOT T10
2-ACRE RESIDENCE ZONE, MAP NO. 2404 N.C.L.R.
AREA=2.001 ACRES



LOCATION MAP - 1" = 1000'±

LEGEND:

- 180 EXISTING CONTOUR
- 180.3 EXISTING SPOT ELEVATION
- 180 PROPOSED CONTOUR
- 180.3 PROPOSED SPOT ELEVATION
- 180.3 TREE, DECIDUOUS
- 180.3 DECIDUOUS TREE TO BE REMOVED
- 180.3 TREE, CONIFER
- 180.3 INSTALL TREE PROTECTION
- 180.3 SILT FENCE
- 180.3 ROCK OUTCROP
- 180.3 FENCE
- 180.3 TEST PIT
- 180.3 PERCOLATION TEST
- 180.3 AS ORDERED BY ENGINEER
- 180.3 V.I.F. VERIFY IN FIELD

SEDIMENTATION AND EROSION CONTROL NOTES:

1. Temporary soil and erosion control measures inclusive of filter barriers and anti-tracking areas shall remain in place for as long as necessary to permanently stabilize developed areas.
2. Erosion and sediment control devices shall be installed in their proper sequence. No clearing or grading may be done in any area until the erosion control devices for that area, as shown on the plan, are in place and functional and coordinate inspection by the engineer of record and the Environmental Commission staff before proceeding further.
3. Natural vegetation shall be maintained and protected where practical.
4. All sediment and erosion control devices and provisions shall be maintained in operational condition by the contractor until final acceptance of the project.
5. No changes of this soil erosion and sediment control plan may be made without prior approval of the supervising engineer.
6. Land disturbance is to be kept to a minimum and reestablishment and/or stabilization of disturbed areas shall be scheduled as soon as practical.
7. Erosion controls shall be monitored periodically to verify that they are maintained in effective working order. If, during construction, additional control measures are necessary, they shall be installed by that contractor.
8. Sediment or debris shall be removed from the drainage pipes and structures as it accumulates during construction. It shall be disposed of in a manner which is consistent with the intent of this plan.
9. Sediment fencing shall be installed where required prior to commencing construction, and shall remain in place for the duration of the project. Fencing shall be Propex Silt Stop (TM) as manufactured by Amoco or approved equivalent. Fencing shall not be removed until final site stabilization has been inspected and approved by the Environmental Commission staff.
10. The contractor may provide alternate means of sediment control, but he may not eliminate placement of protection in the areas indicated hereon.
11. The contractor shall regrade topsoil and seed all disturbed areas immediately after construction has been completed.
12. Refer to Erosion and Sedimentation Control Handbook-Connecticut for additional details and specifications for sedimentation control.
13. Additional protection measures shall be implemented should site conditions warrant them.
14. Splash pads shall be placed under all new roof leader down spouts or be piped.
15. Crushed stone shall be placed under any exterior decks and/or open stairways which are more than 30" above finished grade.
16. Copies of permits and the Sedimentation and Erosion Control Plan are to be maintained at the site, and provided to the project foreman and subcontractors prior to the start of work.

DRAINAGE REVIEW:

- a. Existing impervious area = 5,236 s.f.
- b. Proposed impervious area = 6,453 s.f.
- c. 0.9 = coefficient of runoff
- d. 10-year storm: 5.0 in./24 hr. = rainfall intensity

Storage needed = $(b-a)(c)(d/12)$
= $(6,453 \text{ s.f.} - 5,236 \text{ s.f.})(0.9)(5.0 \text{ in.}/12 \text{ in.}/\text{ft.})$
= 457 c.f.

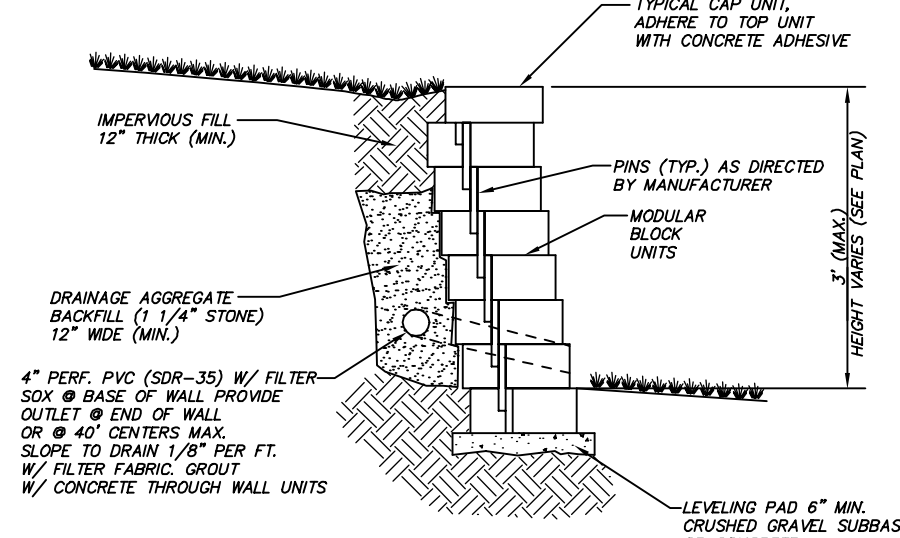
Volume of 4'x8'x24" gallery = 40.1 c.f.
16 galleries plus 12" of stone = $16(40.1 \text{ c.f./gallery}) + [(8'x2'x1')(0.4)]$
= 708.8 c.f.

Storage provided = 708.8 c.f. > 457 c.f., Therefore O.K.

NOTE: DETENTION SYSTEM OVERFLOW WILL DISCHARGE OVER A RIPRAP SPLASH PAD, IT WILL THEN FLOW OVERLAND TOWARDS SILVERMEAD RIVER. WITH THE PROPOSED DRAINAGE DESIGN THERE WILL BE NO IMPACT TO ADJACENT PROPERTIES.

NOTES:

1. DETAIL SHOWS TYPICAL MODULAR BLOCK WALL. ACTUAL CONSTRUCTION TECHNIQUES WILL VARY DEPENDENT ON MANUFACTURER. IN ALL CASES CONTRACTOR MUST PROVIDE DETAILED ENGINEERING SHOP DRAWINGS BEARING THE SEAL AND SIGNATURE OF A P.E. LICENSED IN THE STATE OF CONNECTICUT.
2. COLOR AND TEXTURE OF MODULAR BLOCKS WITH STONE APPEARANCE SHALL BE APPROVED BY OWNER.
3. PRECAST INTERLOCKING WALL SYSTEM SHALL BE SIMILAR TO VERSA-LOCK RETAINING WALL SYSTEMS OR ENGINEER APPROVED EQUAL.



TYPICAL SECTION
UNREINFORCED MODULAR BLOCK
RETAINING WALL
N.T.S.

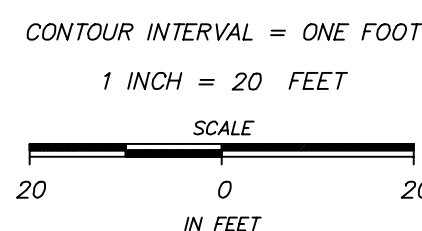
NOTE: BEDROOMS AND SEPTIC SYSTEM SIZE (TANK AND LEACHING AREA)
IT IS THE RESPONSIBILITY OF THE OWNER/DEVELOPER TO VERIFY WITH THE HEALTH DEPARTMENT THE ACTUAL BEDROOM COUNT OF THE PROPOSED DWELLING. FLOOR PLANS SHOWING ALL LEVELS OF THE PROPOSED DWELLING WITH BATHTUB SIZES SHALL BE REVIEWED AND APPROVED BY THE HEALTH DEPARTMENT. ACCORDING TO THE HEALTH CODE, BATHTUBS OF 100-199 GALLONS REQUIRE AN INCREASE OF ONE BEDROOM CAPACITY TO THE SEPTIC SYSTEM AND BATHTUBS WITH CAPACITIES OF 200 GALLONS OR MORE REQUIRE AN INCREASE IN LEACHING CAPACITY EQUIVALENT TO TWO BEDROOMS.

NOTE:
THE EXISTING SEPTIC TANK AND D-BOX SHALL BE PUMPED AND REMOVED PRIOR TO THE CONSTRUCTION OF THE PROPOSED DETENTION SYSTEM

NOTE:
ALL PVC DRAIN PIPE SHALL BE SDR-35 WITH RUBBER GASKET JOINTS, REFER TO CONSTRUCTION NOTES ON SHEET 2 OF 2.

NOTE:
UNDERGROUND SPRINKLER SYSTEMS SHALL NOT BE INSTALLED WITHIN 10' OF THE SEPTIC SYSTEM INCLUDING THE SEPTIC TANK.

NOTE: FINAL INSPECTION/SURVEY
THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS PRIOR TO THE TIME OF THE FINAL INSPECTION. AT THE TIME OF FINAL INSPECTION THE SYSTEM SHALL BE ENTIRELY COMPLETE INCLUDING SEPTIC TANK, SOIL LINE, ALL PIPING, PUMP CHAMBER, ETC. IF THE CONTRACTOR REQUESTS A PARTIAL FINAL INSPECTION, HE SHALL REQUEST IN WRITING THE PARTIAL FINAL INSPECTION INCLUDING THE REASON FOR SAME.



TREE LEGEND

- A ASH
- C CEDAR
- DG DOGWOOD
- HE HEMLOCK
- LO LOCUST
- M MAPLE
- O OAK
- P PINE
- TW TWIN
- MU MULTIPLE

NOTE:
THE STREET AND PROJECT FRONTAGE AREA SHALL BE SWEEPED CLEAN AT THE END OF EACH DAY AS REQUIRED. IN PARTICULAR, THE CONSTRUCTION ENTRANCE SHALL BE KEPT FREE OF DUST AND SEDIMENT.

ROCCO V. D'ANDREA, INC.

- LAND PLANNERS
- ENGINEERS
- SURVEYORS

P.O. BOX 549 RIVERSIDE, CT 06878 6 NEIL LANE TEL. 637-1779

PROJECT	SUBSURFACE SEWAGE DISPOSAL SYSTEM
PREPARED FOR	KARP ASSOCIATES
LOCATION	30 HUCKLEBERRY HILL ROAD NEW CANAAN, CONNECTICUT
1 OF 2	SITE PLAN

1	6-22-06	WELL, ADDITIONAL TEST PITS
		REVISE SYSTEM
0	05-24-05	SUBMISSION
REV.	DATE	DESCRIPTION
		RICHARD A. REGAN, CT PE No. 13247
	6-22-06	DATE
		ONLY COPIES OF THIS PLAN BEARING AN ORIGINAL IMPRINT OF THE ENGINEER'S EMBOSSED SEAL ARE TRUE, VALID COPIES.