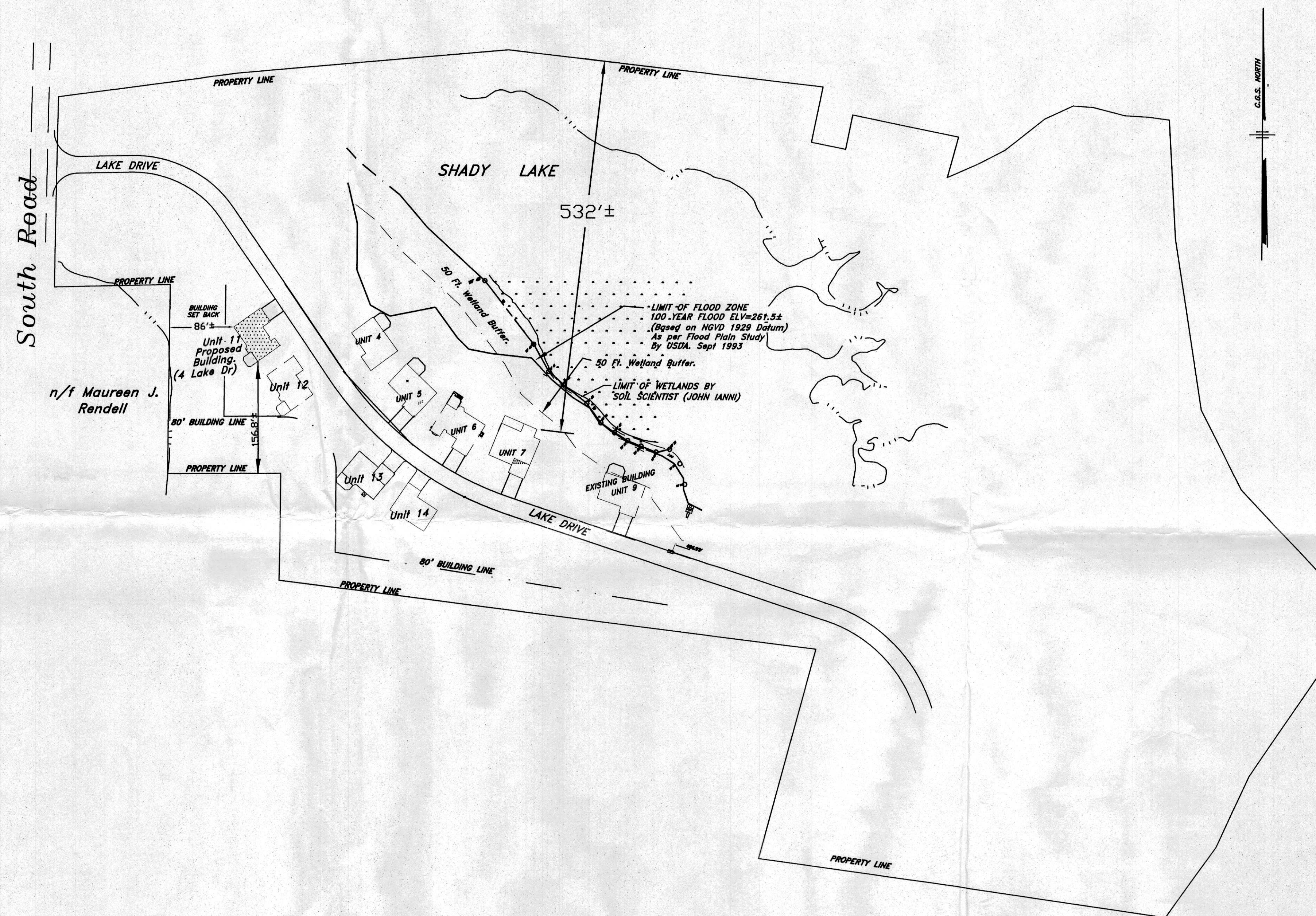


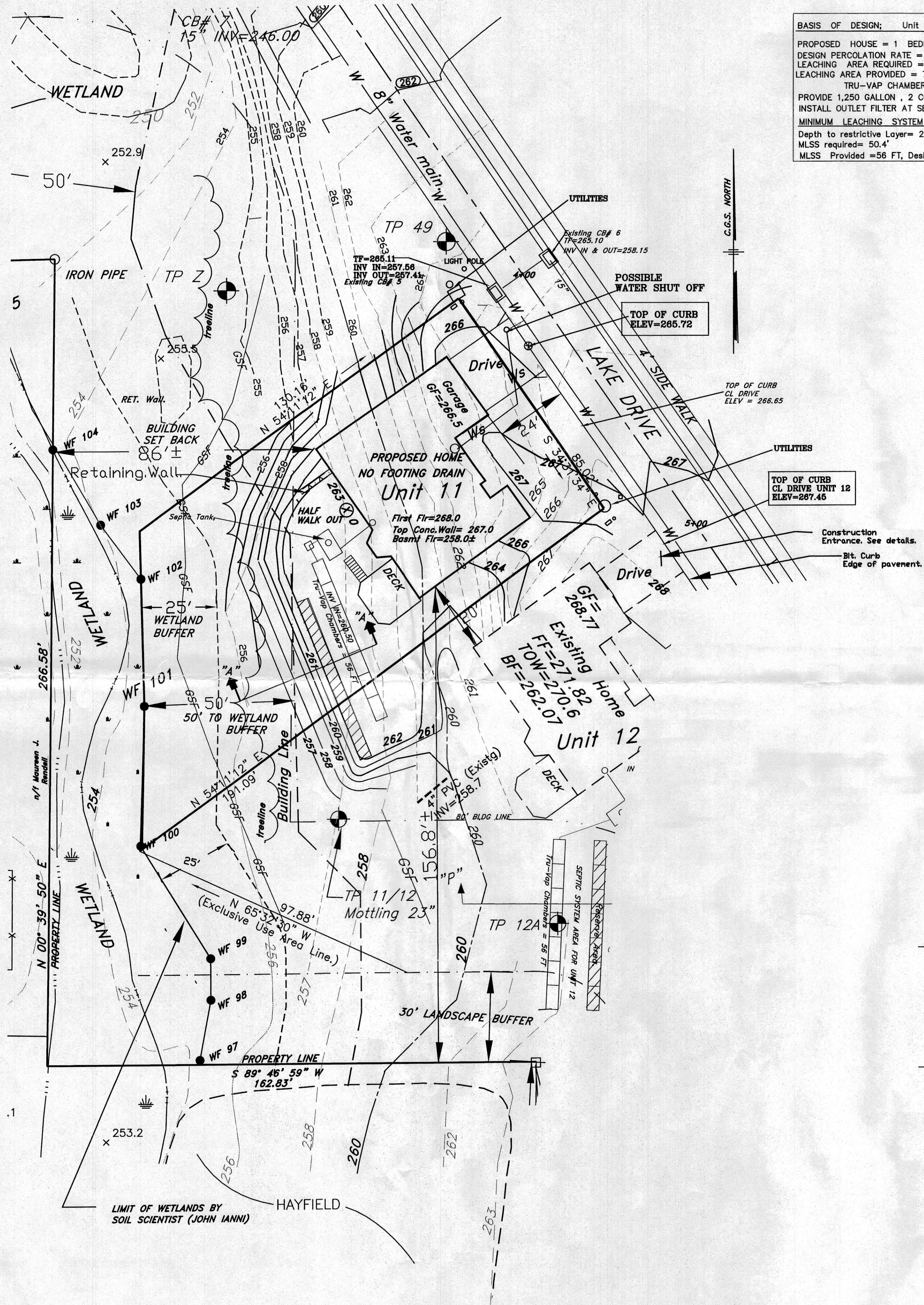


# **NOTES.**

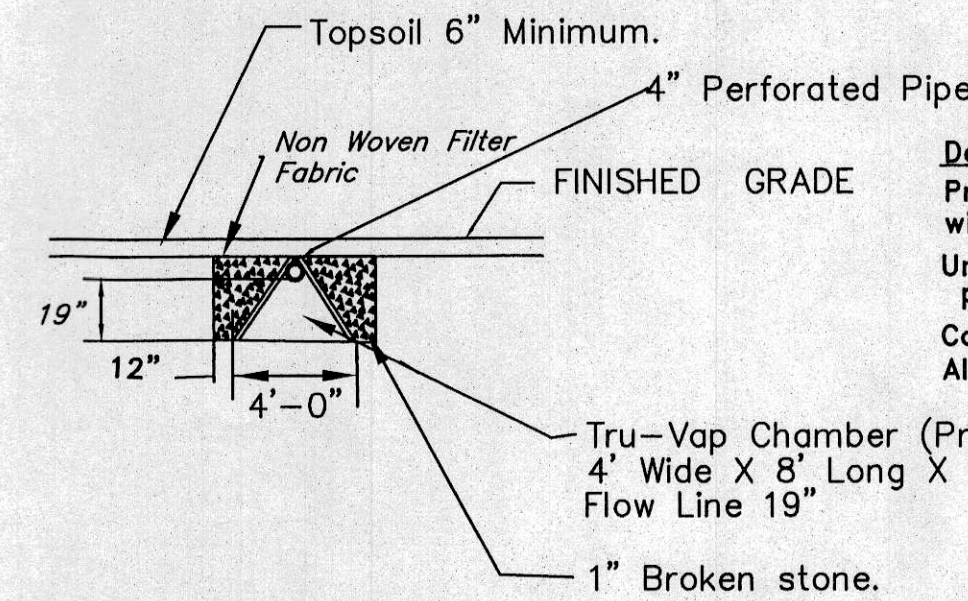
1. Property line information taken from approved subdivision map on file in Somers Town.
2. The intent of this map is to show approximate distances to the property line.

ACTIVE ADULT COMMUNITY  
SHADY LAKE

|                                                                                                          |                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>SCALE: 1"=100'</p> <p>0 100' FEET</p> <p>REVISED</p> <p># 12/8/2020 Revised Unit # 11 Shady Lake.</p> | <p>Prepared for:</p> <p>Roger Frangiamore.</p> <p>C:/1 Shady Lake/RF5805-Unit 11 Locumap</p> <p>S.(Nat) Sreenath, P.E.<br/>Professional Engineer.</p> | <p>LOCUS MAP</p> <p>Unit 11,<br/>4 LAKE DRIVE, SOMERS, CT</p> <p><b>SREENATH ASSOCIATES</b></p> <p>CIVIL ENGINEERS &amp; LAND SURVEYORS</p> <p>11 ROYAL MANOR, SOMERS, CONNECTICUT.</p> <p>Project No: C:/1 Shady Lake/RF5805-Unit 11 Locumap</p> <p>Date: 8/1/15 Sheet No: 4</p> <p>This drawing shall not be used for construction except under the supervision of the Engineers.</p> |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

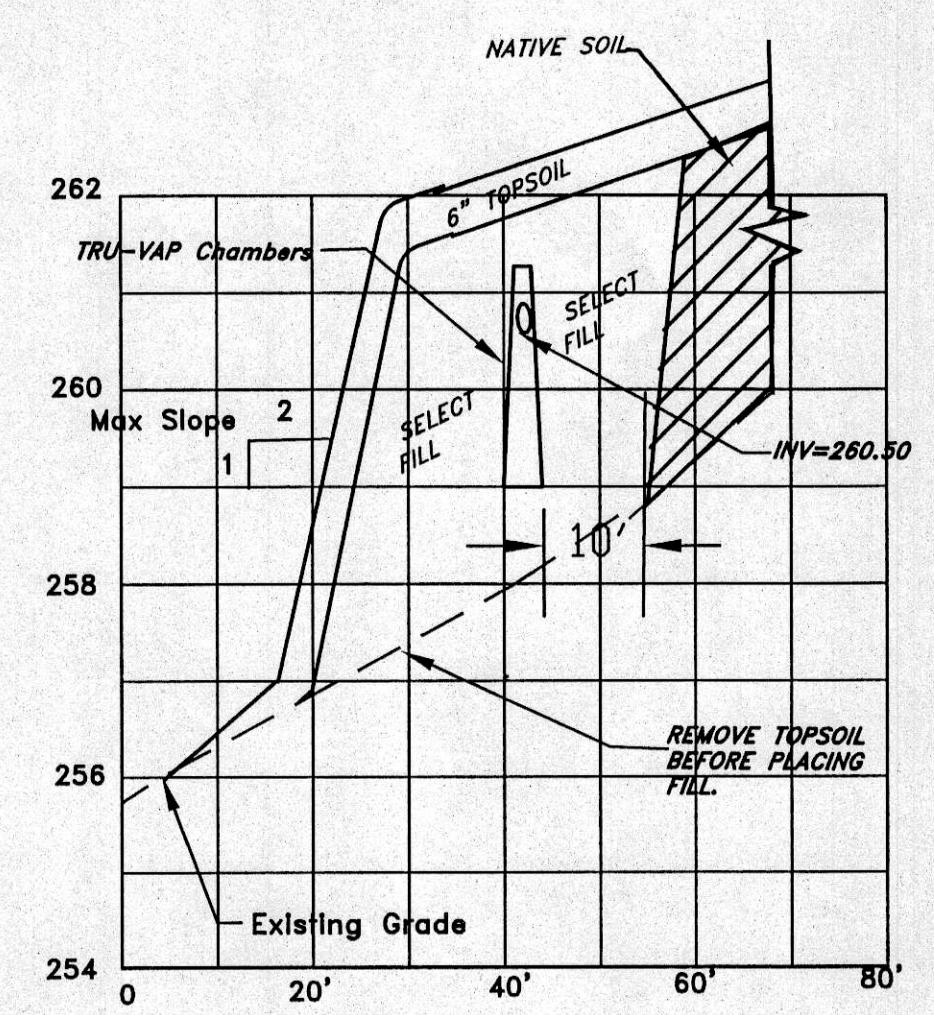
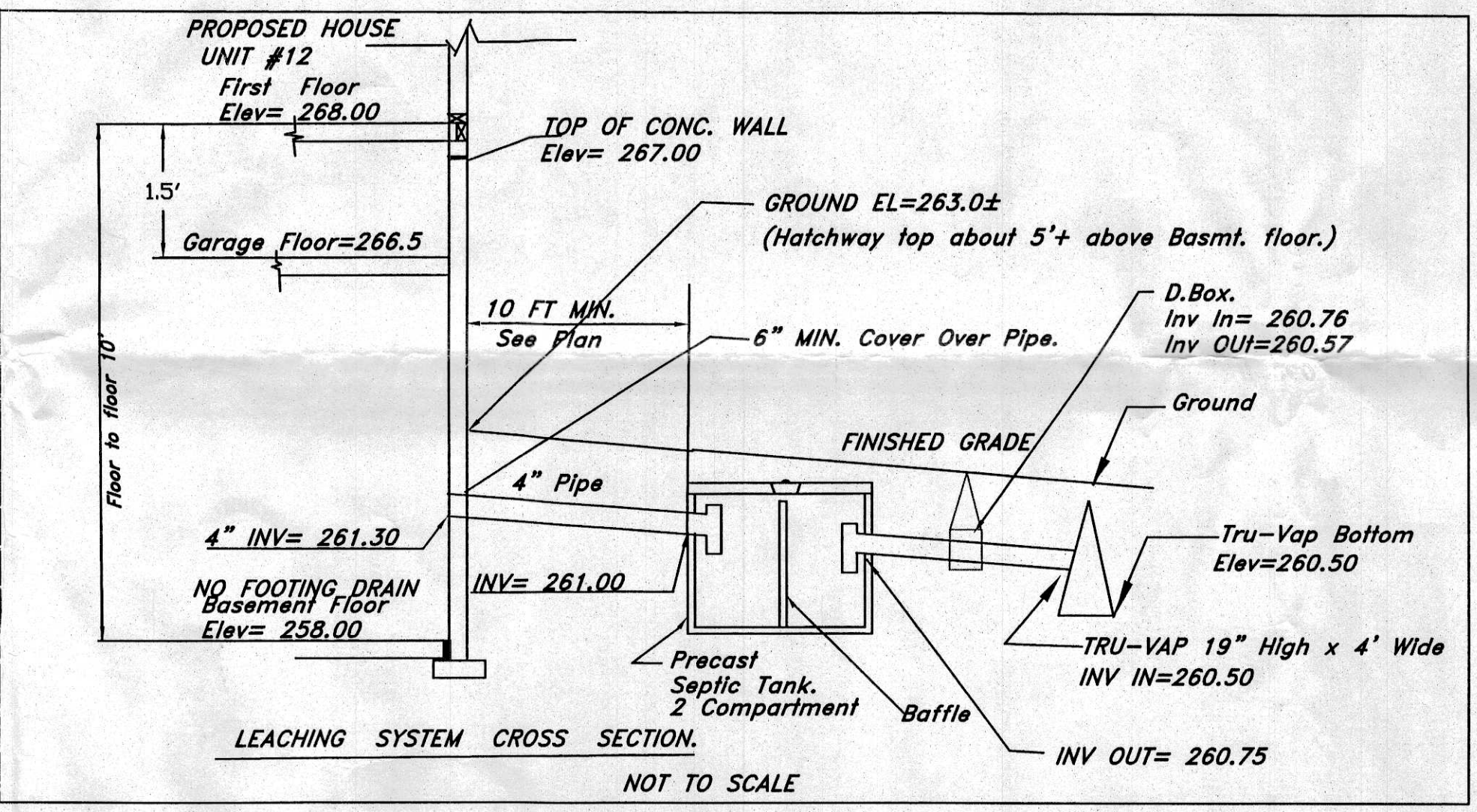
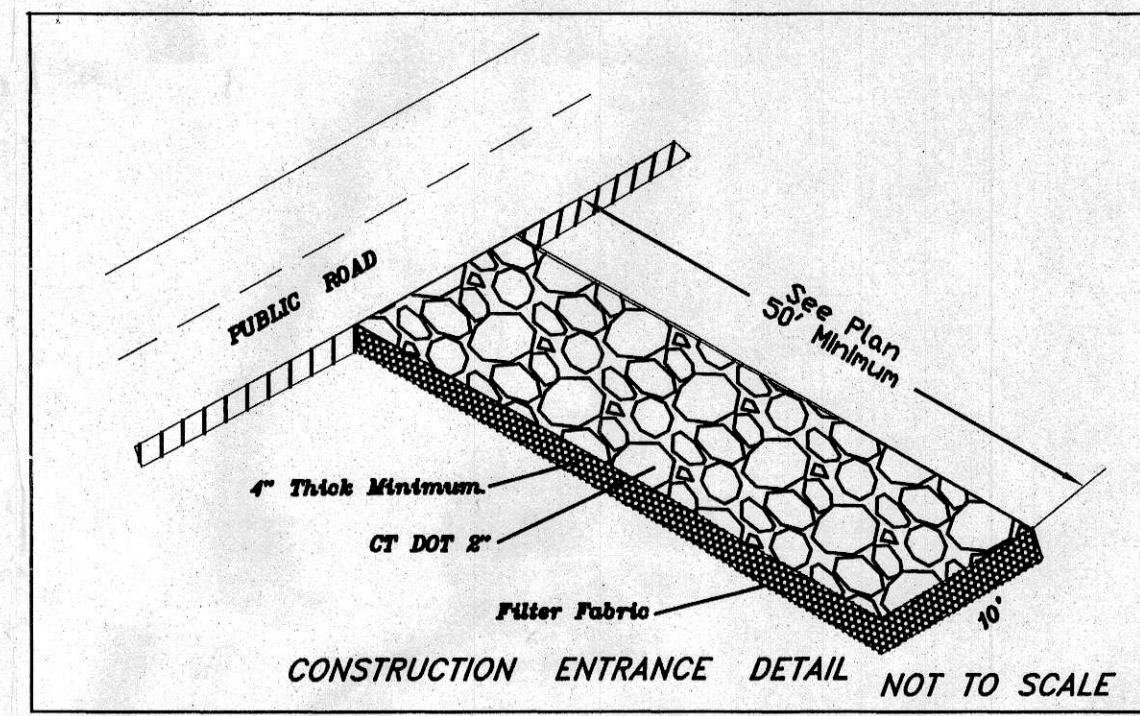


**BASIS OF DESIGN; Unit 11**  
PROPOSED HOUSE = 1 BEDROOM  
DESIGN PERCOLATION RATE = 2-10 MINUTES/INCH  
LEACHING AREA REQUIRED = 375 Sq.Ft  
LEACHING PROVIDED = 7.1 Sq.Ft/LF x 56' x #1 Row=397 q.Ft  
TRU-VAP CHAMBERS. 4'wide x 27" deep.  
PROVIDE 1,250 GALLON, 2 COMPARTMENT SEPTIC TANK  
INSTALL OUTLET FILTER AT SEPTIC TANK OUTLET.  
**MINIMUM LEACHING SYSTEM SPREAD REQUIRED**  
Depth to restrictive Layer= 23", Slope=4%, HF=42, PF=1.2, FF=1.0  
MLSS required= 50.4'  
MLSS Provided =56 FT, Design adequate.



**Design Features.**  
Precast Concrete reinforced with 3/8" Welded Steel Rods  
Units to be installed with perforated pipe.  
Concrete 4,000 PSI  
All walls 3" Thick

**TRU-VAP LEACHING CHAMBER**  
NO SCALE.  
Tru-Vap Chambers manufactured by J.J. Mottos Concrete Products Company, Stafford, CT or Approved Equal.



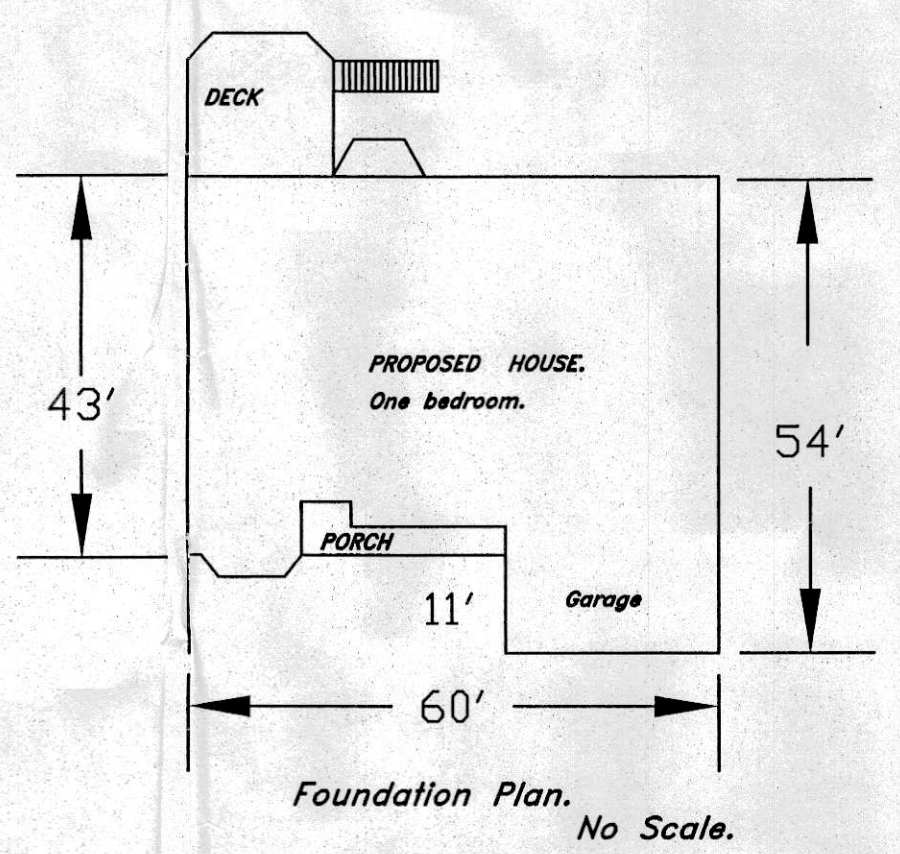
**CROSS SECTION "AA"**  
NOTE: Mottling @ 23"  
Scale: Hor. 1"=20'  
Vert 1"=2'

**TEST PIT DATA:** Taken by Town of Somers Environmental Health during March 7 and 8, 2008 (Steven R. Jacobs, R.S.)  
Ground Water Table: Seasonally High.

**Test Pit # 11/12**  
Ap 13" Topsoil  
Bw 28" Friable Sandy Loam  
Bw2 40" Slightly cemented Sandy Loam  
C 58" Loose Fine-Med. Sand  
C2 82" Loose Coarse Sand  
Water 39" Mottling: 23", Common Prominent, No ledge  
Roots: 24", Slope: B

**TEST PIT DATA:** Taken by Town of Somers Environmental Health during April 2, 2015 by Steven R. Jacobs, R.S.  
Ground Water Table: Seasonally High.

**Test Pit 12A**  
C 36" Compact Sandy Loam, Fill  
Bwb 49" 5 YR 4/4 Friable, Buried Sandy Loam.  
C1 75" 7.5 YR 4/6 Loose Loamy Sand.  
C2 88" 5 YR 4/4 Loose, Coarse Sand.  
No water, no ledge,  
Note: Maintain 10FT min. to up-grade propane fuel tank.



- NOTES:**
- See other sheets for Construction Details and erosion/sediment control details.
  - Water Service connections, materials and construction methods shall conform to Connecticut Water Company Standards and details. Connect water lateral to the proposed house to existing water valve in the street.
  - Dwelling unit shall be served by a public water supply connection. Public water supply provided by Connecticut Water Company.
  - See other sheets for septic system notes and additional details.
  - Excavate test pits to verify soil condition assumed during the design before excavation for foundation. Testpit 11/12 excavated during the approval of the project more than 5 years back. Existing ground elevation at the septic system (True-Vap Galleries) is approximate.
  - Dwelling Unit 11 requires a Flood Elevation Certificate prior to Issuance of a Certificate of Occupancy.
  - For erosion and sediment control measures see other sheets.
  - Erosion and Sediment control measures shall meet State of Connecticut Erosion/Sediment Control Hand Book.
  - The building and septic system location and elevations to be staked by a Registered Land Surveyor.
  - Information showing existing Topography and Utilities provided by Landmark Surveys, Ellington, CT. Garage Floor Elevation must be maintained. Basement and First floor elevations are approx.
  - Testpit 12A location by Dan Avery and Town Sanitarian.
  - Testpit 11/12 was excavated during the original design of the project more than 5 years ago.

| LEGEND   |                       |
|----------|-----------------------|
| Existing | Proposed              |
| 103 x 3  | 103 x 3               |
| 244      | 220                   |
| TP       | TP                    |
|          | SPOT GRADE            |
|          | CONTOUR               |
|          | TEST PIT              |
|          | SEPTIC TANK           |
|          | DISTRIBUTION BOX      |
|          | Geotextile Silt Fence |
|          | Water Lateral.        |
|          | Water Main            |
|          | Wetlands Flag         |

**ACTIVE ADULT COMMUNITY SHADY LAKE**

**PROPOSED SEPTIC SYSTEM, Units 11, 4 LAKE DRIVE SOMERS, CT**

**SREENATH ASSOCIATES**

CIVIL ENGINEERS & LAND SURVEYORS  
11 ROYAL MANOR, SOMERS, CONNECTICUT.

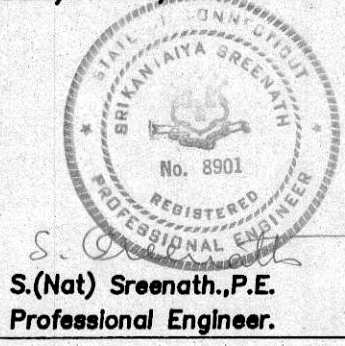
Project No: One-Shady Lake/Unit 11/RF5637.Site Plan

Date: 7/30/2015 Sheet No: 1 of 2

This drawing shall not be used for construction except under the supervision of the Engineers.

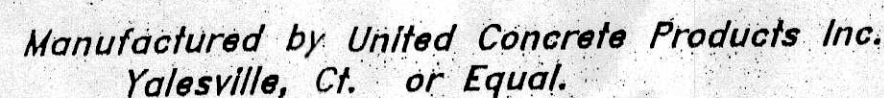
|                                                 |
|-------------------------------------------------|
| SCALE: 1"=20'                                   |
| 0 20' 40' FEET                                  |
| Revisions:                                      |
| # 1 12/7/2021 House dimensions & Septic System. |

|                                         |
|-----------------------------------------|
| Prepared for:<br><b>SHADY LAKE LLC.</b> |
| One-Shady Lake/Unit 11/RF5637.Site Plan |



S.(Nat) Sreenath, P.E.  
Professional Engineer.

NOT VALID WITHOUT AN ORIGINAL SIGNATURE AND EMBOSSED SEAL AFFIXED



- A. Contractor and or the owner shall comply with all pertinent Town and State Health Department Regulations.
- B. Installation order and procedures shall be as directed by the Town Health Department, the Town and the Engineer.
- C. House sewer from foundation wall to septic tank within 25 feet of the building served shall be extra-strength PVC pressure water pipe AWWA C-900 75-100 PSI with rubber compression couplings or 4"HDPE.
- D. The septic tank shall be built with integral baffles and with an outlet cast 5' below the inlet. Septic tank shall be two compartment tank.
- E. It is the responsibility of the Installer (Lic. drain layer) to construct the final approved plan without revision, unless prior approval has been obtained by the Health Department.
- F. If the installer finds any mottling, water or ledge or conditions worse than what is shown on this plan, he shall immediately stop work and contact the Health Department/Agency and the Engineer for revisions.
- G. The design is based upon field testing by those listed in the notes, and it is possible that conditions may be found during construction that will increase the system cost.
- H. All treated areas shall be loamed (4"thick Min.) and seeded as soon as possible after the system construction. All areas to be protected against erosion during construction, using hay bales/silt fences and mulch as required.
- I. Truck and construction equipment traffic should be kept to a minimum in area of system.



**DESIGN NOTES**

1. Concrete - 4000 p.s.i., 28 days
2. Reinforcement - steel wire mesh 6" x 6", 10 ga
3. Height - available in 1', 2' and 3' lengths

SEPTIC TANK RISER.  
(Manufacturer: Arrow Concrete, Granby, CT)

1. Sanitary sewer from house to septic tank shall have a slope of 1/4" per ft, or greater.
2. Select Fill and Select Backfill material, placed within and adjacent to proposed leaching areas shall be comprised of clean sand and gravel, free from organic matter and foreign substances. The fill material shall meet the following requirements (State of CF, Public Health Code), unless otherwise approved by the design engineer: Town sanitary Select fill exceeding 6% passing the #20 sieve based on a wet sieve test cannot be approved by the design engineer.

The fill shall not contain any material larger than three (3) inches.  
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)

The material that passes the #4 sieve is then reweighed and the sieve analysis started. The remaining sample shall meet the following gradation criteria:

*Middlesex Connecticut Public Health*

For more details see Connecticut Public Health Code Regulations Section 19-13-B100a (dated January 2007)  
Section VIII (Page 41)

3. Erosion and sediment control measures shall be taken during the construction as outlined in the 2002 Connecticut Salate Erosion and Sediment Control Guide Book.
4. Installation of septic tank and leaching trench shall be done only after the approval of the septic system design by the Sanitation.
5. Ground control for Topography by Martin Post, Reg.L.S., Somers : Aerial Survey by Golden Aerial Survey, Newton, CT Property line information by map on file in Land Records.
6. The Developer/Builder/Owner must check the grading plan and make sure there are no conflicts with the proposed grades before commencing foundation excavation and bring any discrepancy to the attention of the Design Engineer. This step is necessary due to incomplete information being supplied to the design engineer by the owner of property/developer in terms of Aerially certified building footprint.
7. Basement windows are not shown. adjust grading as required to provide adequate clearance. Adjust grading as required to provide a minimum of 8" from finished grade to structural wood, between window sills and finished grade or provide window wells and drains to protect window openings.
8. Adverse ground water and/or soil conditions may require the proposed basement elevation to be higher than indicated on these drawings.
9. Site work shall not commence until the site plan has been reviewed and found to meet the requirements of the zoning regulations by the TOWN OFFICIALS.
10. the septic installer shall check the existing grades at the leaching trench location and shall contact the design engineer if there is any discrepancy.
11. Design of septic system does not take into account a Garbage Disposal or a large capacity discharge type tub.
12. Proposed Drive Way to be paved stone pavers. Base and subbase as per manufacturer.

Existing underground utilities shown are approximate. All existing underground utilities may not have been shown. Indicated underground utilities are based on available data. The contractor shall call "Call before you dig," Tel # 800-922-4455 and locate the utilities in the field and notify the engineer should there be any conflict between the existing and proposed utilities.

● All dimensions, materials and specifications are to be verified by the Contractor prior to the commencement of Work. The contractor shall be responsible for construction methods, means techniques, sequences and safety precautions in connection with the work.

1. Remove topsoil in driveway area and install 20ft long Stone pad.
2. Install Silt fence as shown on the drawings and protect disturbed areas from erosion with mulch/hay etc until area is stabilized.
3. Strip topsoil and stockpile away from the area of the house.
4. Excavate foundation and pour concrete footing and foundation wall.
5. Back fill foundation, loam and seed disturbed area and protect area from erosion with mulch/hay etc until area is stabilized.
6. Install septic system and stockpile away in an area shown on site plan.
7. Strip topsoil in septic system area and stockpile away in an area shown on site plan.
8. Install septic system & water service line.
9. Loam & Seed all disturbed areas to protect from erosion.
9. Erosion and sediment control measures shall be maintained till all disturbed areas are stabilized.

Witnessed by: \_\_\_\_\_  
 Notary Public for the State of Maryland  
 My commission expires: \_\_\_\_\_  
 \_\_\_\_\_, person: Shady Loke LLC & OR Roger Framingham, 22 Royal Manor, Somers, CT

Responsible person: Shady Lake LLC & OR Roger Frangiamore, 22 Royal Manor, Somers, CT



NO SCALE

- ALL FILL AREAS AND OTHER DISTURBED AREAS SHALL BE STABILIZED. SPREAD TOPSOIL (4" MINIMUM DEPTH ) AND FINE GRADE. APPLY SEED AND LIME FERTILIZER AND MULCH IN ACCORDANCE WITH THE FOLLOWING:

SEED MIXTURE:  
 CREEPING RED FESCUE 0.45 LBS PER 1,000 SQ.FT.  
 REDTOP 0.05  
 TALL FESCUE 0.45  
 TOTAL 0.95 LBS.PER 1,000 SQ.FT.

FERTILIZER: 10-10-10 APPLY AT 7.5 LBS PER 1,000 SQ.FT.  
 LIMESTONE: 150 LBS PER 1,000 SQ.FT

SEEDING DATES: APRIL 15 THROUGH JUNE 15.  
 AUGUST 15 THROUGH SEPTEMBER 15

**MULCHING: SPREAD HAY/STRAW OVER ALL AREAS AFTER SEEDING.  
USE 1 1/2 TO 2 BALES PER 1,000 SQ.FT.  
ANCHOR MULCH BY USING NETTING OR TRACKING.**

- NO CHANGES TO THE PLAN APPROVED BY THE TOWN SANITARIAN SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE TOWN HEALTH DEPARTMENT.
- ROOF LEADERS SHALL DRAIN ON TO LAWN AREAS AND DRAINAGE SWALES SHALL DRAIN AROUND THE LEACHING AREA.
- SEPTIC TANK SHALL BE INSPECTED ONCE EVERY 2 YEARS AND PUMPED IF NECESSARY. KITCHEN SINK DISPOSAL UNIT IS NOT RECOMMENDED.

(AA.) Water Service connections materials and construction methods shall conform to Connecticut Water Company Standards and details.

(BB.) An Elevation Certificate will be required for each structure(Home) prior to issuance of a Certificate of occupancy.

(DD) Leaching systems proposed cut/fill areas will require additional testing prior to individual system construction permits being issued. Filled areas will require verification of the leachate property and volume. Slave testing will be required for all areas being prepared with select fill material. Cut areas shall require additional percolation tests and test pits in order to verify design parameters. Bottom of leaching systems must be located a minimum 24 inches above maximum ground water in areas where percolation rates are faster than 1 min./inch. Additional testing should be arranged through the local health department in conjunction with the State of CT Department of Public Health.

(EE.) All septic tanks shall be provided with cleanout manholes no less than 12 inches from finished grade and be equipped with approved outlet filter devices. Tanks located deeper than 2 feet below finished grade shall be provided with a minimum 24 inch diameter access riser.

(GG.) Party responsible for the pumping, maintenance and repair of the individual septic systems:  
Shady Lake LLC, 22 Royal Manor, Somers, CT. OR If sold the future Owners/Shady Lake Association.

(HH.) The design engineer and or Somers Town Sanitarian should oversee the site preparation in the leaching system area to insure conformance with approved plans.  
A plan and drawing of each subsurface sewage system be prepared and stamped by an engineer or land surveyor and submitted to the Town of Somers Health Department before the permit to discharge is issued.  
The septic installer shall prepare a sketch with distances to the building to show the D.Box, Septic Tank and Leaching Gallies or Leaching Trenches.

SHADY LAKE ESTATES  
ACTIVE ADULT COMMUNITY

PROPOSED SEPTIC SYSTEM,  
4 LAKE DRIVE, UNIT 11  
SOMERS, CT

*SREENATH ASSOCIATES*

CIVIL ENGINEERS & LAND SURVEYORS  
11 ROYAL MANOR, SOMERS, CONNECTICUT.

|                 |                              |
|-----------------|------------------------------|
| SCALE: AS SHOWN | Project No: D009E-RF5605-SP1 |
|-----------------|------------------------------|

Date: 07/7/2015 Sheet No: 2 of 2

|                                                                                                |        |
|------------------------------------------------------------------------------------------------|--------|
| This drawing shall not be used for construction except under the supervision of the Engineers. | Page 2 |
|------------------------------------------------------------------------------------------------|--------|

Page 2