

**EROSION CONTROL REQUIREMENTS**

THE FOLLOWING SPECIFICATIONS FOR INSTALLATION AND MAINTENANCE OF EROSION CONTROLS ARE FROM THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (REVISED 2002) BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION:

**FILTER FENCE (SILT FENCE)**

**1) MATERIALS**

(A) **SYNTHETIC FILTER FABRIC**  
SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE FILAMENTS AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:

PHYSICAL PROPERTY	REQUIREMENTS
FILTERING EFFICIENCY	75% (MIN.)
TENSILE STRENGTH AT 20% (MAX.) ELONGATION	EXTRA STRENGTH - 50 LBS./LIN. IN. (MIN.)
FLOW RATE	0.3 GAL./SQ. FT./MIN. (MIN.)

(B) **SYNTHETIC FILTER FABRIC REQUIREMENTS**  
FABRIC SHALL BE 10 OUNCE PER SQUARE YARD (MIN.).

POSTS FOR FILTER FENCE SHALL BE EITHER 2 x 2 OR 2 x 3 INCH STUDS OR 0.5 POUNDS (MINIMUM) PER LINEAR FOOT STEEL WITH A MINIMUM LENGTH OF 4 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.

SOME SILT FENCES REQUIRE A WIRE BACKING. CONSULT MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION REQUIREMENTS.

**2) INSTALLATION REQUIREMENTS**  
THIS SEDIMENT BARRIER UTILIZED EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED. IN SPECIAL CASES IT MAY BE USED IN DRAINAGEWAYS.

(A) THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES (HIGHER BARRIERS MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE). IDEALLY THE FILTER FENCE SHALL BE PLACED 10 FEET AWAY FROM THE TOE OF SLOPE.

(B) WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATIONS.

(C) POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES).

(D) A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

(E) THE FILTER FABRIC IS STAPLED, WIRED, OR TIED DIRECTLY TO THE POSTS WITH 8 INCHES OF THE FABRIC EXTENDING INTO THE TRENCH.

(F) THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FENCE.

(G) FILTER BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

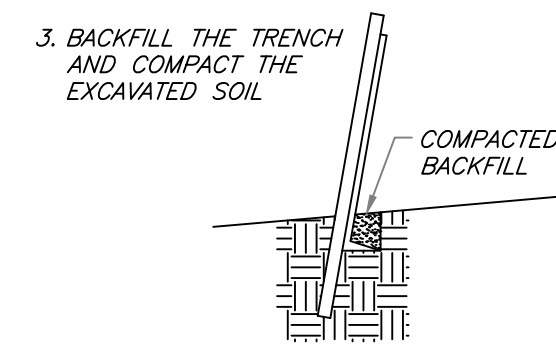
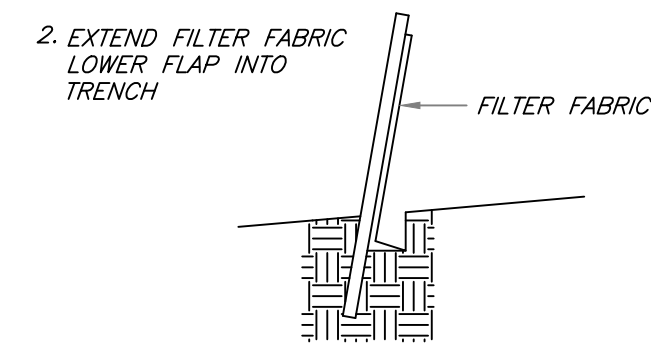
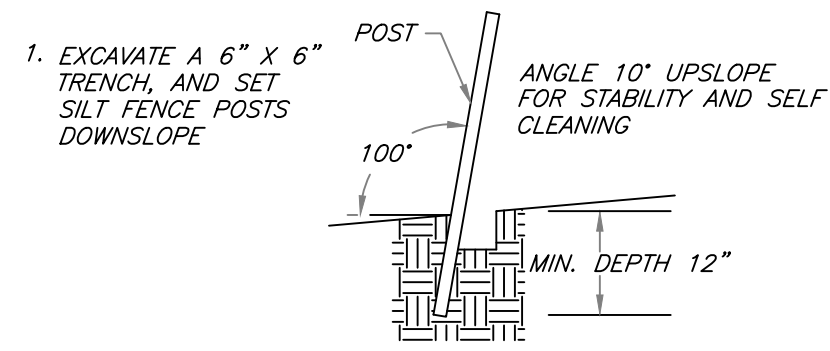
**3) MAINTENANCE**

(A) FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

(B) SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

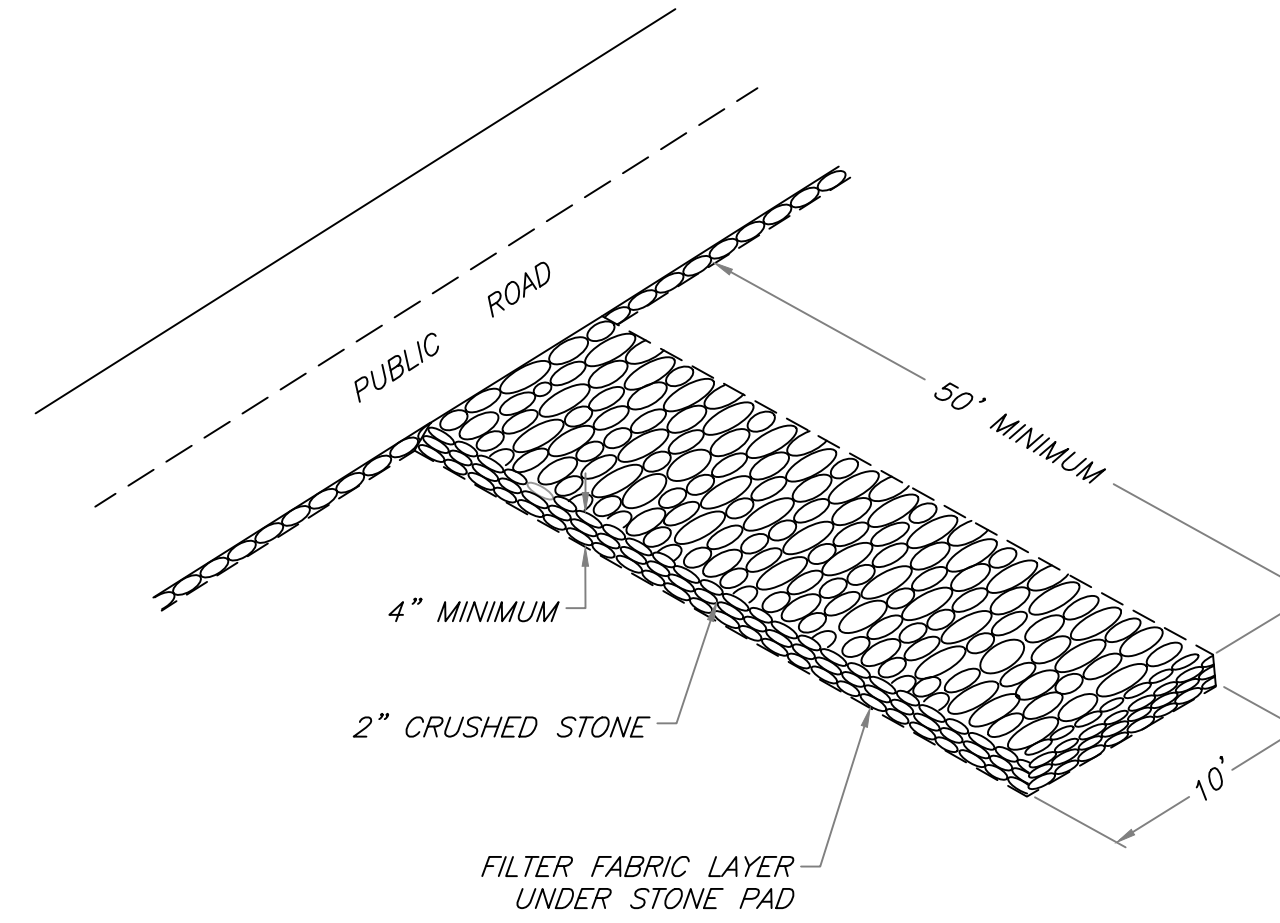
(C) SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

(D) ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



**SILT FENCE INSTALLATION DETAIL**

SCALE: NONE



**DRIVEWAY ENTRANCE ANTI-TRACKING PAD**

SCALE: NONE

**SOIL EROSION & SEDIMENT CONTROL NOTES**

SILT FENCE EROSION BARRIER SHALL BE INSTALLED DOWN-GRADIENT OF THE CONSTRUCTION AREA PRIOR TO THE START OF CONSTRUCTION.

THE MATERIAL SPECIFICATIONS, INSTALLATION REQUIREMENTS AND MAINTENANCE PROCEDURES FOR EROSION CONTROLS SHALL BE IN ACCORDANCE WITH THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (REVISED 2002) BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION, INSPECTION AND MAINTENANCE OF EROSION CONTROLS. EROSION BARRIERS SHALL BE INSPECTED AFTER HEAVY RAINFALL FOR DAMAGE AND CLOGGING. REPAIRS SHALL BE MADE IMMEDIATELY.

AFTER FINAL GRADING, ALL DISTURBED SOIL AREAS SHALL BE SEEDED AND HAY MULCHED.

SILT FENCE EROSION BARRIERS MAY BE REMOVED AFTER THE AREA IS WELL VEGETATED AND FULLY STABILIZED.

**IMPERVIOUS SURFACES CALCULATION**

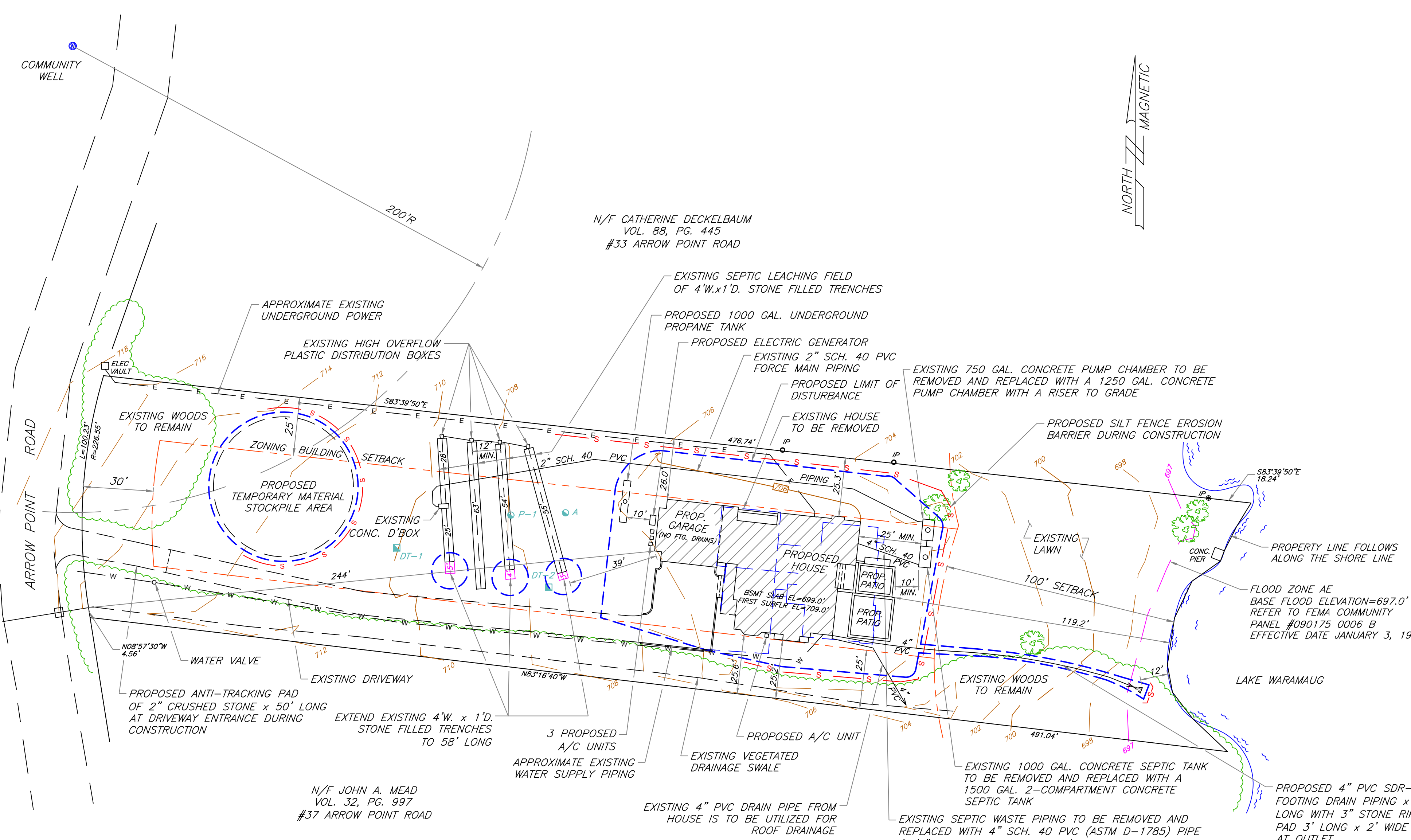
LOT AREA = 50,416 SQ. FT.

DESCRIPTION	AREA
HOUSE, PORCHES, DECKS, PATIOS & STEPS	4110 SQ. FT.
A/C UNITS & GENERATOR	35 SQ. FT.
DRIVEWAY	3545 SQ. FT.
LAKESIDE CONC. PIER	20 SQ. FT.
TOTAL =	7710 SQ. FT.
IMPERVIOUS SURFACE RATIO =	$\frac{7710 \text{ SQ. FT.}}{50416 \text{ SQ. FT.}} \times 100 = 15.3\%$

**NOTES**

- LOT SIZE: 1.16± ACRES
- TAX ASSESSOR MAP 41, LOT 2
- ZONING DISTRICT: SOUTH ZONE
- SUBDIVISION: LOT 25
- PROPERTY OWNERS: DOUGLAS A. BROWN  
LAURA G. BROWN

- REVISION  $\Delta$ : UPDATED HOUSE FOOTPRINT 10-29-18
- REVISION  $\Delta$ : ADDED PATIO, BBQ ISLAND, A/C CONDENSERS, GENERATOR 11-5-18
- REVISION  $\Delta$ : CHANGED SEPTIC TANK & PUMP CHAMBER SIZE 11-23-18
- REVISION  $\Delta$ : EXTENDED FOOTING DRAIN FOR GRAVITY FLOW 2-16-20



**PROPOSED PLAN**

SCALE: 1" = 30'

SURVEY AND TOPOGRAPHIC DATA IS FROM CLASS A-2 MAP BY T. MICHAEL ALEX, LLS

PROPOSED HOUSE DATA IS FROM PLANS BY JAMES PARAGANO, ARCHITECT

**LEGEND**

	EXISTING ELEVATION CONTOURS
	PROPOSED ELEVATION CONTOURS
	SILT FENCE EROSION BARRIER
	TREE LINE
	PERCOLATION TEST HOLE
	SOIL INSPECTION PIT
	PROPOSED LIMIT OF DISTURBANCE

**PROPOSED SITE PLAN**

**BROWN RESIDENCE RECONSTRUCTION**

35 ARROW POINT ROAD  
WARREN, CONNECTICUT

DATE: 8-30-18	BRIAN E. NEFF LICENSED ENGINEER 128 BACON ROAD ROXBURY, CT 06783 (860) 354-2246	DRAWN BY: B.E. NEFF
REVISED: 2-16-20 $\Delta$		DRAWING NUMBER: SHEET 1 OF 1