

DESIGN CRITERIA

- 7,500 MAXIMUM DESIGN FLOW FOR DPH REVIEW (GALLONS)
- 150 GALLONS PER BEDROOM
- 50 NUMBER OF PROPOSED BEDROOMS
- 10 PERCOLATION RATE (MINUTES PER INCH) (ASSUMED VALUE)
- >60 DEPTH TO RESTRICTIVE LAYER (INCHES)

MLSS ANALYSIS:

- N/A HYDRAULIC FACTOR (HF) (RESTRICTIVE LAYER > 60 INCHES)
- 21.24 FLOW FACTOR (FF)
- 1.0 PERCOLATION FACTOR (PF)
- MLSS = HF x FF x PF
- N/A LF LEACHING SYSTEM SPREAD REQUIRED
- 100% OF MINIMUM LEACHING SYSTEM SPREAD PROVIDED

PROPOSED SYSTEM DESIGN:

330 LINEAL FEET OF 62 INCH WIDE BY 36 INCH HIGH GEOMATRIX GST 6236 LEACHING FIELDS.

8,250 EFFECTIVE LEACHING AREA REQUIRED (SQUARE FEET) (495 x 165 x 47) = 8,250

8,646 EFFECTIVE LEACHING AREA PROVIDED (SQUARE FEET) (330 LF x 26.2 SF/LF = 8,646 SF PROVIDED)

RESERVE SEPTIC SYSTEM DESIGN:

330 LINEAL FEET OF 62 INCH WIDE BY 36 INCH HIGH GEOMATRIX GST 6236 LEACHING FIELDS.

8,646 EFFECTIVE LEACHING AREA PROVIDED (SQUARE FEET) (330 LF x 26.2 SF/LF = 8,646 SF PROVIDED)

SPECIFIC NOTES:

- ADDITIONAL SOIL TESTING WITNESSED BY THE HOUSATONIC VALLEY HEALTH DISTRICT WOULD BE REQUIRED PRIOR TO ANY DESIGN.
- PERCOLATION RATE IS ASSUMED AND IS NOT BASED ON ACTUAL INVESTIGATION.
- NEIGHBORING SEPTIC SYSTEMS AND DRINKING WATER WELLS HAVE NOT BEEN TAKEN INTO CONSIDERATION FOR THIS SKETCH.
- THE PROPOSED DRINKING WATER SUPPLY IS ASSUMED TO BE SUPPLIED BY THE EXISTING COMMUNITY WATER SYSTEM ON THE NEIGHBORING PROPERTY.

SOIL INSPECTION RESULTS

11/29/2023

OBSERVATION PIT: NO. 1

- 0' - 7" TOPSOIL
- 7' - 17" MED. BROWN SAND & GRAVEL FILL
- 17' - 40" ORIGINAL TOPSOIL
- 40' - 84" ORANGE BROWN SAND & GRAVEL
- 84' - 100" LT. BROWN VERY FINE SAND
- NO LEDGE OBSERVED
- 84" MOTTLING OBSERVED
- NO GROUNDWATER OBSERVED
- 72" ROOTS OBSERVED

OBSERVATION PIT: NO. 2

- 0' - 4" TOPSOIL
- 4' - 15" LT. BROWN SAND & GRAVEL FILL
- 15' - 18" ORIGINAL TOPSOIL
- 18' - 72" LT. BROWN SAND & GRAVEL
- 72' + LT. BROWN VERY FINE SAND
- NO LEDGE OBSERVED
- NO MOTTLING OBSERVED
- NO GROUNDWATER OBSERVED
- 60" ROOTS OBSERVED

OBSERVATION PIT: NO. 3

- 0' - 18" TOPSOIL
- 18' - 46" YELL. BROWN FINE SANDY LOAM
- 46' - 80" MED. BROWN SAND & GRAVEL
- 80' - 96" LT. BROWN VERY FINE SAND
- NO LEDGE OBSERVED
- 80" MOTTLING OBSERVED
- NO GROUNDWATER OBSERVED
- 46" ROOTS OBSERVED

OBSERVATION PIT: NO. 4

- 0' - 8" TOPSOIL
- 8' - 44" YELL. BROWN FINE SANDY LOAM
- 44' - 96" MED. BROWN SAND & GRAVEL
- NO LEDGE OBSERVED
- NO MOTTLING OBSERVED
- NO GROUNDWATER OBSERVED
- 44" ROOTS OBSERVED

OBSERVATION PIT: NO. 5

- 0' - 55" BURY HOLE (TOPSOIL, SAND & GRAVEL & ORGANIC DEBRIS)
- 55" REFUSAL OBSERVED
- 65" MOTTLING OBSERVED
- NO GROUNDWATER OBSERVED
- 48" ROOTS OBSERVED

OBSERVATION PIT: NO. 6

- 0' - 32" FILL- ASPHALT
- 32' - 46" ORIGINAL TOPSOIL
- 46' - 72" MED. BROWN SAND & GRAVEL
- 72' - 90" MED. BROWN VERY FINE SAND
- NO LEDGE OBSERVED
- 72" MOTTLING OBSERVED
- NO GROUNDWATER OBSERVED
- 46" ROOTS OBSERVED

OBSERVATION PIT: NO. 7

- 0' - 30" FILL- GRAVEL
- 30' - 33" ORIGINAL TOPSOIL
- 33' - 68" MED. BROWN SAND & GRAVEL
- NO LEDGE OBSERVED
- NO MOTTLING OBSERVED
- NO GROUNDWATER OBSERVED
- NO ROOTS OBSERVED

OBSERVATION PIT: NO. 8

- 0' - 7" TOPSOIL
- 7' - 95" MED. BROWN SAND & GRAVEL
- NO LEDGE OBSERVED
- NO MOTTLING OBSERVED
- NO GROUNDWATER OBSERVED
- NO ROOTS OBSERVED

SEPTIC #2 DESIGN CRITERIA

- 32 NUMBER OF PROPOSED BEDROOMS
- 150 GALLONS PER BEDROOM
- 4,800 DESIGN FLOW FOR DPH REVIEW (GALLONS)
- 10 PERCOLATION RATE (MINUTES PER INCH) (ASSUMED VALUE)
- >60 DEPTH TO RESTRICTIVE LAYER (INCHES)

MLSS ANALYSIS:

- N/A HYDRAULIC FACTOR (HF) (RESTRICTIVE LAYER > 60 INCHES)
- 13.68 FLOW FACTOR (FF)
- 1.0 PERCOLATION FACTOR (PF)
- MLSS = HF x FF x PF
- N/A LF LEACHING SYSTEM SPREAD REQUIRED
- 100% OF MINIMUM LEACHING SYSTEM SPREAD PROVIDED

SEPTIC #2- PROPOSED SYSTEM DESIGN:

205 LINEAL FEET OF 62 INCH WIDE BY 36 INCH HIGH GEOMATRIX GST 6236 LEACHING FIELDS.

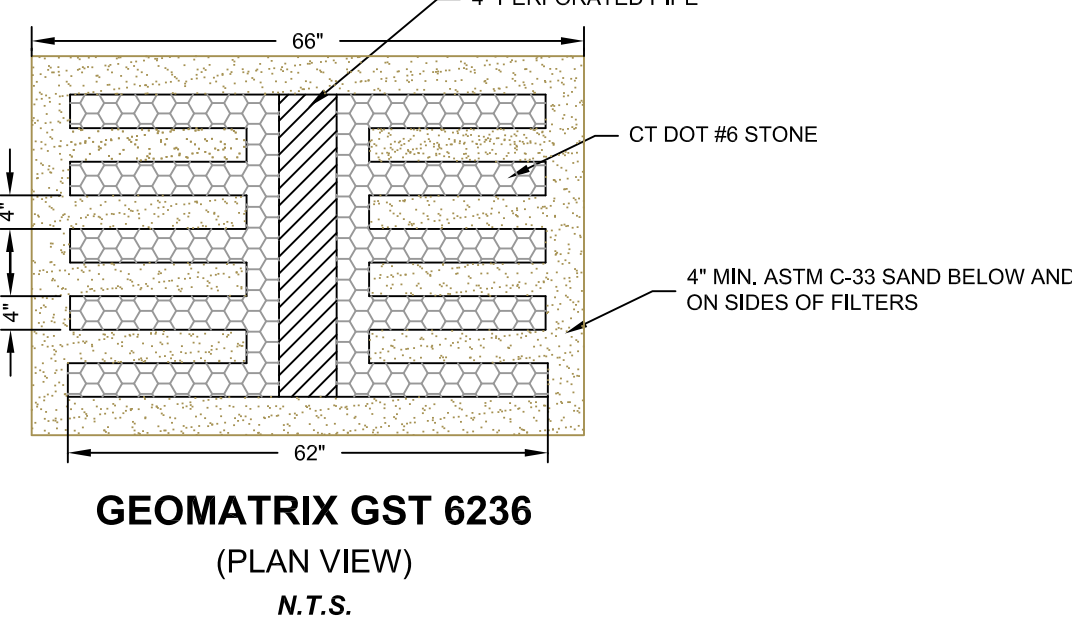
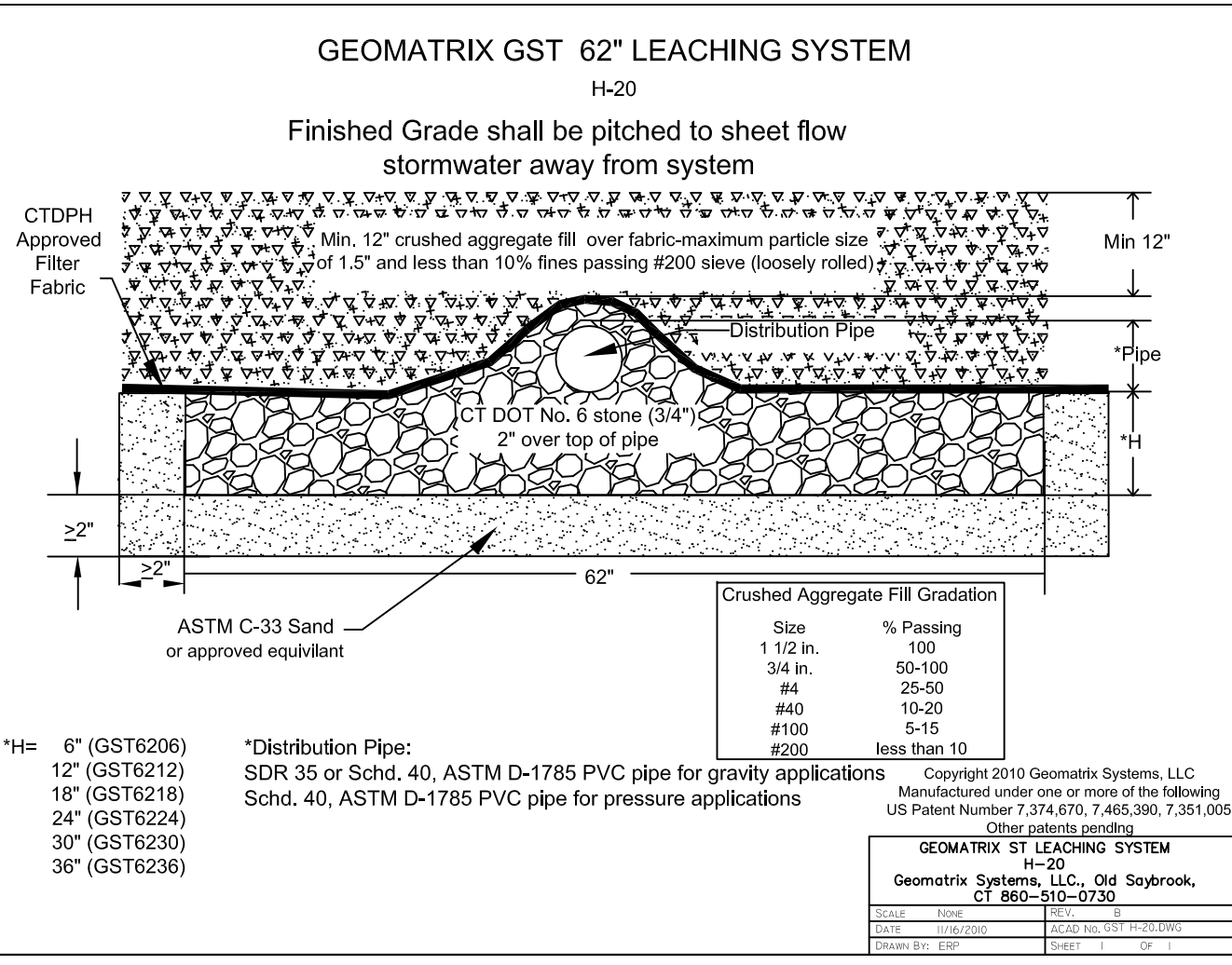
5,280 EFFECTIVE LEACHING AREA REQUIRED (SQUARE FEET) (495 x 165 x 29) = 5,280

5,371 EFFECTIVE LEACHING AREA PROVIDED (SQUARE FEET) (205 LF x 26.2 SF/LF = 5,371 SF PROVIDED)

RESERVE SEPTIC SYSTEM DESIGN:

202 LINEAL FEET OF 62 INCH WIDE BY 36 INCH HIGH GEOMATRIX GST 6236 LEACHING FIELDS.

5,292 EFFECTIVE LEACHING AREA PROVIDED (SQUARE FEET) (202 LF x 26.2 SF/LF = 5,292 SF PROVIDED)



1) COPIES NOT BEARING THE EMBOSSED SEAL OF THE SURVEYOR OR ENGINEER SHALL BE RENDERED NULL AND VOID.
 2) REVISIONS TO THESE PLANS BY ANYONE OTHER THAN ARTHUR H. HOWLAND, P.C. SHALL MAKE THESE PLANS NULL AND VOID. ARTHUR H. HOWLAND, P.C. SHALL TAKE NO RESPONSIBILITY FOR SAID REVISIONS.

REVISIONS:

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Proposed Site Development Plan Layout #1

for
NPA Associates LLC

329 Kent Road
 Town of New Milford
 County of Litchfield
 State of Connecticut

DATE: **December 13, 2023**

SCALE: **1" = 30'**



SHEET: **SD.L3**

Underground utility, structure and facility locations shown have been determined from record maps provided by utility companies, governmental agencies, testimony, field locations, and other sources. Other utilities may exist on site or in the area shown. The size, location, and existence of all underground features must be field verified by the appropriate providers prior to construction. Call Before You Dig, 1-800-322-4455.