

TEST HOLE 2 - TH2

YELLOW BROWN FINE TO VERY FINE SANDY LOAM 28" - 97" GRAY MEDIUM SAND WITH SOME SILT AND GRAVEL

TOTAL TEST HOLE DEPTH - 97" - NO LEDGE REDOX/GW MOTTLING - 24" GROUNDWATER SEEPAGE - 70"

0 - 11" 11" - 32" YELLOW BROWN FINE TO VERY FINE SANDY LOAM 32" - 99" GRAY MEDIUM SAND WITH SOME SILT AND GRAVEL

TOTAL TEST HOLE DEPTH - 99" - NO LEDGE REDOX/GW MOTTLING - 32" GROUNDWATER SEEPAGE - 74" ROOTS - 34"

TEST HOLE 4 - TH4

0 - 12" 12" - 25"

YELLOW BROWN FINE TO VERY FINE SANDY LOAM 25" - 108" GRAY MEDIUM SAND WITH SOME SILT AND GRAVEL

TOTAL TEST HOLE DEPTH - 108" - NO LEDGE REDOX/GW MOTTLING - 25" GROUNDWATER SEEPAGE - 69" ROOTS - 17"

LOT 1A - SEPTIC DESIGN CALCULATIONS:

BASIS OF DESIGN - 4BR SINGLE FAMILY RESIDENTIAL PERCOLATION RATE - LESS THAN 10.1 MIN/IN MINIMUM LEACHING SYSTEM SPREAD MLSS = HF X PF X FFHF = 42 (SLOPE = 3.9%)(DEPTH TO RESTRICTIVE = 24IN.)

• FF = 1.75 (4BR) $MLSS = 42 \times 1.0 \times 1.75$ MLSS = 73.5 LF (84 LF PROVIDED)

ELA REQUIRED - 577.5 SF ELA PROVIDED - 840 SF (GST 6212)

1250 GAL SEPTIC TANK 100% RESERVE LEACHING AREA PROVIDED

### BULK REQUIREMENTS/ZONING COMPLIANCE TABLE R-40 ZONE - REAR LOTS (Sections 8 & 4.11.4)

LOT 1A

		LOTT	LOTIA
	REQUIRED	PROVIDED	PROVIDED
MINIMUM LOT AREA (BEYOND 150 FT LOT WIDTH):	60,000 FT <sup>2</sup>	122,467 FT <sup>2</sup>	64,817 FT <sup>2</sup>
MINIMUM LOT FRONTAGE:	25 FT	25 FT	25 FT
MINIMUM FRONT YARD SETBACK:	60 FT	332 FT	75 FT
MINIMUM SIDE YARD SETBACK	15 FT	33 FT	86 FT
MINIMUM REAR YARD SETBACK:	40 FT	58 FT	101 FT
MAXIMUM BUILDING HEIGHT:	35 FT	<35 FT	<35 FT
MINIMUM ACCESSORY BUILDING SETBACK:	10 FT	11 FT	N/A

#### GENERAL NOTES:

1) Reference is made to the following plans:

A) "Lot Line Adjustment/Site Plan For Proposed Addition, Property Belonging To: John M. & Lynette S. Crowley, 137 Gay Hill Road, Montville, Connecticut, Zone: R-40, Scale: 1"-40", May 8, 2016, Revised: June 28, 2016, Sheet 1 of

B) "Property Map for Lindsay Szczygiel, Gay Hill Road, Montville, CT, Scale: 1"=20', Dated: 3/1/01." Plan surveyed and mapped by Kratzert, Jones & Associates, Inc. Plan recorded on the Montville Land Records as Map #1939. C) Map Showing Transfer Of Property From Leopold A. & Jennie S Szczygiel to Leonard & Jacqueline Szczygiel, Gay Hill Road, Montville, CT, Scale: 1"=60', Dated: August 16, 2004. Plan surveyed and mapped by Jones Engineering,

LLC. Plan provided to Florek Surveying, LLC by the client. D) Plan Showing Property Of John M. & Lynette S. Crowley, 137 Gay Hill Road, Montville, Connecticut, Scale: 1"=40', Dated: October 24, 1993. Map surveyed and mapped by William F. Kent. Plan in Florek Surveying, LLC

2) Underground utilities are not shown on this plan. Call Before You Dig (C.B.Y.D.) should be called prior to any construction. Surveyor makes no guarantee of items not shown on plan.

3) Existing septic system data taken from an as-built map provided to Florek Surveying, LLC by the client.

4) Subject property was conveyed subject to a 50' right of way in favor of the grantor, their heirs, successors and assigns for the purpose of ingress and egress to other remaining lands of the grantor.

137 GAY HILL ROAD SUBDIVISION PROPERTY BELONGING TO: JOHN M. & LYNETTE S. CROWLEY 137 GAY HILL ROAD MONTVILLE, CONNECTICUT **ZONE**: R - 40 SCALE: 1" = 40'

**REVISIONS:** 

October 11, 2021 June 22, 2022 JULY 26, 2022 AUGUST 15, 2022

SHEET 2 OF 3

PERCOLATION TEST DATA

137 GAY HILL ROAD, MONTVILLE, CT DATE - NOVEMBER 5, 2021

ENGINEER - DAVID COOLEY, P.E., DLC ENGINEERING SERVICES, LLC

PERCOLATION TEST 1 - PT1

DEPTH - 15" PRE-SOAK - 11:50AM

TIME	READING	WATER LEVEL DROI	CIRATE MIN.
1:05	5.40"		
1:10	6.72"	1.32"	3.79
1:15	7.92"	1.20"	4.17
1:20	8.88"	0.96"	5.21
1: 25	9.60"	0.72"	6.94
1: 30	10.32"	0.72"	6.94
1: 35	10.92"	0.60"	8.33
1:40	11.52"	0.60"	8.33
1:50	12.72"	1.20"	8.33
2:00	13.80"	1.08"	9.26
2:10	14.88"	1.08"	9.26
2: 20	FULLY DR	AINFD	

PERCOLATION RATE AT 15" DEPTH = < 10.1 MINUTES/INCH

PERCOLATION TEST 2 - PT2

DEPTH - 15"

PRE-SOAK - 11:50AM

TIME	READING	WATER LEVEL I	ROP (IRATE MIN./
1:03	7.44"		
1:08	9.60"	2.16"	2.32
1:13	10.68"	1.08"	4.63
1:18	11.76"	1.08"	4.63
1:23	12.60"	0.84"	5.95
1:28	13.56"	0.96"	5.21
1: 33	14.16"	0.60"	8.33
1: 38	14.88"	0.72"	6.94
1: 43	15.48"	0.60"	8.33
1:53	16.56"	1.08"	9.26
2:03	17.64"	1.08"	9.26
2:13	FULLY	DRAINED	

PERCOLATION RATE AT 15" DEPTH = < 10.1 MINUTES/INCH

## CONSTRUCTION SEQUENCE:

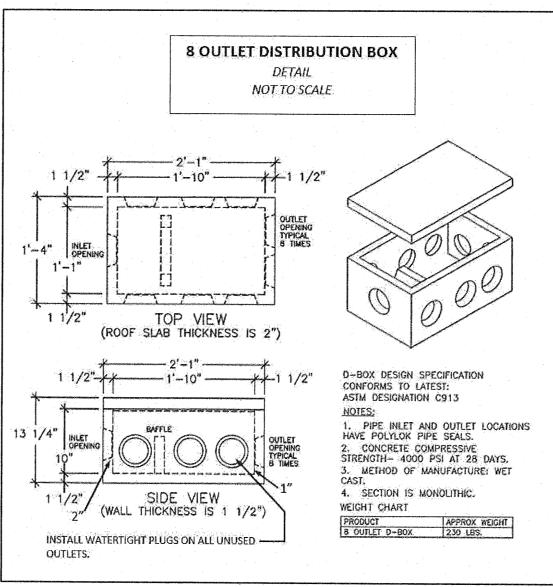
- 1. SURVEYOR TO MARK LIMITS OF CLEARING AND THE AREA OF DISTURBANCE
- INSTALL SILT FENCE AS INDICATED ON THE SITE PLAN AND PER EROSION AND SEDIMENT CONTROL PLAN.
   INSTALL CONSTRUCTION ENTRANCE AS INDICATED ON THE SITE PLAN AND PER EROSION AND SEDIMENT
- 4. SURVEYOR TO MARK LIMITS OF FOUNDATION FOR PROPOSED BUILDING.
- EXCAVATE FOR AND CONSTRUCT FOUNDATION FOR PROPOSED BUILDING.
- EXCAVATE FOR AND INSTALL UTILITY SERVICE TO THE PROPOSED BUILDING.
- CONSTRUCT PROPOSED BUILDING.
- 8. COMPLETE FINAL GRADING WITHIN THE AREA OF DISTURBANCE.
- 9. INSTALL SEPTIC SYSTEM. 10. INSTALL DRIVEWAY AND PARKING AREAS.
- TOPSOIL OF EXPOSED SOILS TO PREPARE FOR RESEEDING.
- 12. RESEED ALL EXPOSED AREAS PER EROSION AND SEDIMENT CONTROL PLAN. COVER WITH STRAW.
- 13. SILT FENCE TO REMAIN IN PLACE UNTIL ALL UP-GRADIENT AREAS ARE PERMANENTLY ESTABLISHED TO THE SATISFACTION OF THE TOWN.

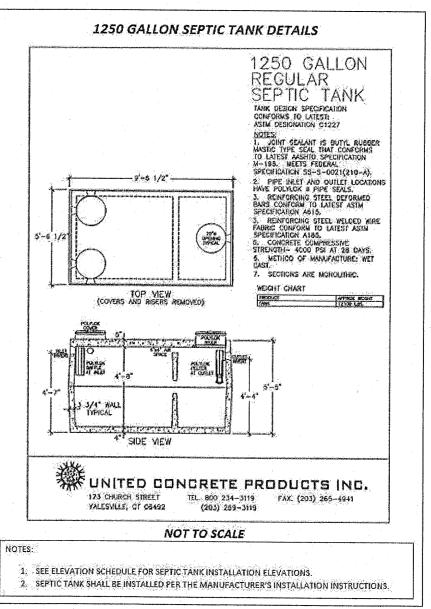
# EROSION AND SEDIMENT CONTROL PLAN:

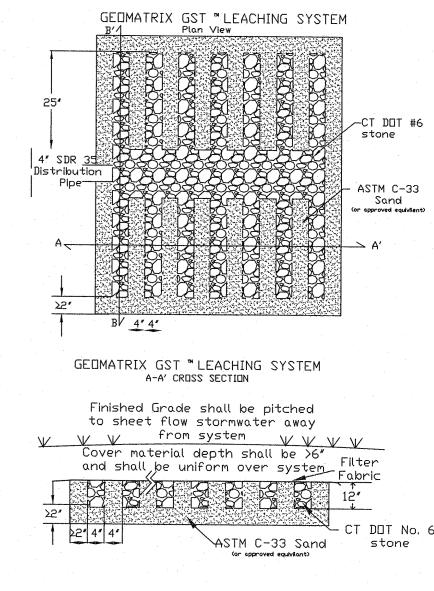
EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AND INSTALLED PER THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

- 1. ESTIMATED DURATION OF MAJOR CONSTRUCTION ACTIVITIES 90 DAYS.
- 2. SURVEYOR TO MARK WETLAND SETBACK LIMITS ON THE PROPERTY AS APPLICABLE.
  3. SILT FENCE IS TO BE INSTALLED, AS INDICATED ON THE SITE PLAN, PRIOR TO ANY CONSTRUCTION ACTIVITY AND INSPECTED BY TOWN STAFF. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN FOR
- THE PURPOSE OF INSPECTION PRIOR TO ANY CONSTRUCTION ACTIVITIES.

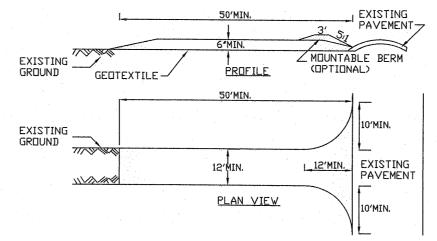
  4. CONSTRUCTION ENTRANCE TO BE INSTALLED, AS INDICATED ON THE SITE PLAN, PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS INDICATED IN THE CONSTRUCTION SEQUENCE ON THE SITE PLAN.
- 6. STOCKPILE AREAS MUST BE DIRECTLY CONTAINED WITHIN SILT FENCE AROUND THE COMPLETE PERIMETER.
- 7. EXCESS SPOILS SHALL BE DISPOSED OF OFF SITE AT AN APPROPRIATELY LICENSED FACILITY.
  8. ALL REMAINING DISTURBED AREAS SHALL BE SEEDED UPON COMPLETION OF CONSTRUCTION IF DURING THE PLANTING SEASON, RECOMMENDED SEEDING DATES SHALL BE BETWEEN APRIL 15 AND SEPTEMBER 15. SEED MIX WILL CONSIST OF 0.45 LB PER 1,000 S.F. OF CREEPING RED OR TALL FESCUE, 0.05 LB PER 1,000 S.F. OF REDTOP AND 0.20 LB PER 1,000 S.F. OF BIRD'S FOOT TREFOIL WITH INNOCULENT. FERTILIZER MAY BE APPLIED AT THE RATE OF 7.5 LB PER 1,000 S.F. OF 10-10-10.
- 9. SILT FENCE BARRIER TO BE MAINTAINED AND LEFT IN PLACE UNTIL ALL DISTURBED AREAS HAVE ESTABLISHED VEGETATION TO THE SATISFACTION OF TOWN STAFF.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTION AND MAINTENANCE OF SILT FENCE
   AND EROSION AND SEDIMENT CONTROL CONDITIONS ONSITE DURING CONSTRUCTION.
   11. PROJECT ENGINEER MAY BE CALLED FOR SPECIAL INSPECTIONS TO ASSESS EROSION AND
- SEDIMENT CONTROL PLAN EFFECTIVENESS AND MAKE REVISIONS AS NECESSARY.
- 12. PROJECT ENGINEER MAY ALSO BE CALLED IN TO ASSESS EMERGENCY SITUATIONS (I.E. SEVERE FLOODING, RAINS OR OTHER ENVIRONMENTAL PROBLEMS).







CONSTRUCTION ENTRANCE DETAIL



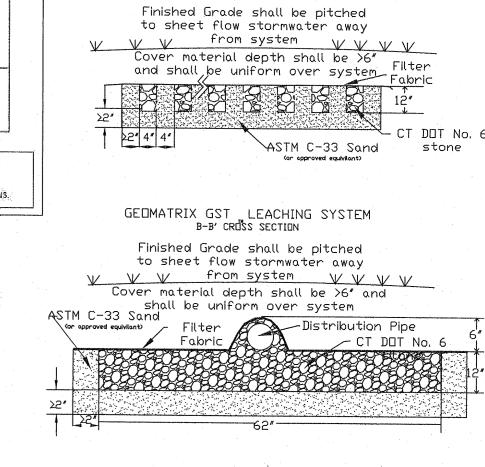
### CONSTRUCTION SPECIFICATIONS

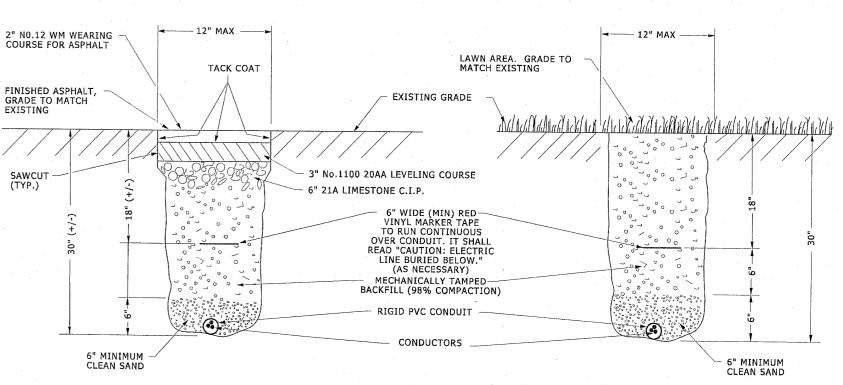
- 1. STONE SIZE USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE
- 2. LENGTH NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 30 FOOT MINIMUM LENGTH WOULD APPLY),

  3. THICKNESS NOT LESS THAN SIX (6) INCHES,
- 4. WIDTH TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- 5. GEOTEXTILE WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
  6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CON-
- STRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE, IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

  MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR SEDIMENT ON THE PROPERTY OF THE PROPERTY OF
- SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

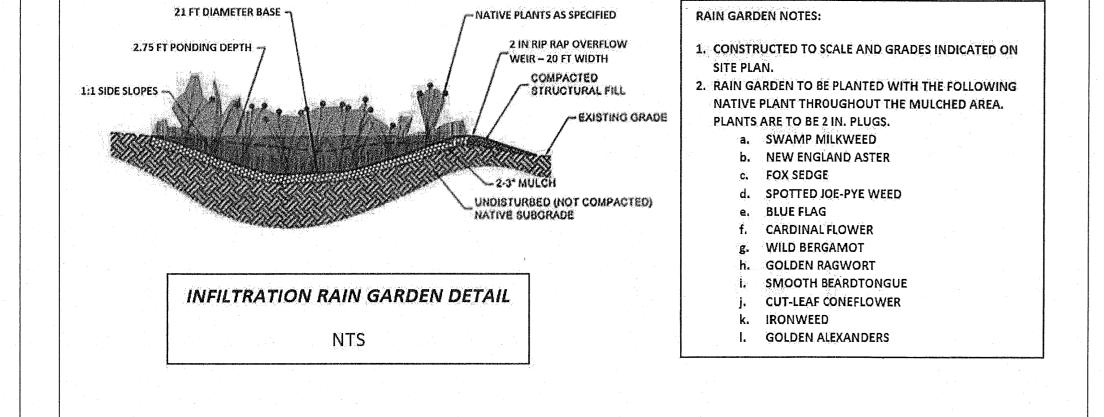
  8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE
- 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
   9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH





ELECTRIC/COMMUNICATIONS TRENCH DETAIL

NOT TO SCALE



### WATER QUALITY VOLUME

THE WATER QUALITY VOLUME (WQV) FOR THE SUBDIVISION IS CALCULATED TO BE 2,071 FT<sup>3</sup> AS PRESENTED BELOW. THE WQV IS TREATED WITH A PROPOSED RAIN GARDEN ON LOT 1A WITH MINIMUM 2,100 FT<sup>3</sup> OF TREATMENT CAPACITY.

$$WQV = \frac{(1")(R)(A)}{12}$$

 $WQV = 0.0475 \ acre - foot$  $WQV = 2.071 \ ft^3$  Where,

R = 0.05 + 0.009(1)

Where,

I = percent impervious cover

I = 6.06% (6.06) R = 0.05 + 0.009(6.06)

R = 0.1045A = 5.46 acres

# 137 GAY HILL ROAD - EXISTING STRUCTURE DATA

TEST HOLE DATA — EXISTING STRUCTURE 137 GAY HILL ROAD, MONTVILLE, CT

DATE - JUNE 22, 2016

PRESENT - BILL BOND, JOHN & LYNETTE CROWLEY
HEALTH DEPARTMENT - KIMBERLY HAMLEY, SANITARIAN, UNCAS HD

0 - 15" TOPSOIL 15" - 35" BROWN FINE SANDY LOAM

TEST HOLE 1 - TH1

35" - 75" WET SAND AND GRAVEL

TOTAL TEST HOLE DEPTH - 75" - NO LEDGE REDOX/GW MOTTLING - 35"

PERCOLATION TEST DATA — EXISTING STRUCTURE

137 GAY HILL ROAD, MONTVILLE, CT

DATE — JUNE 22, 2016

PRESENT — BILL BOND, JOHN & LYNETTE CROWLEY

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HEALTH DEPARTMENT - KIMBERLY HAMLEY, SANITARIAN, UNCAS HD

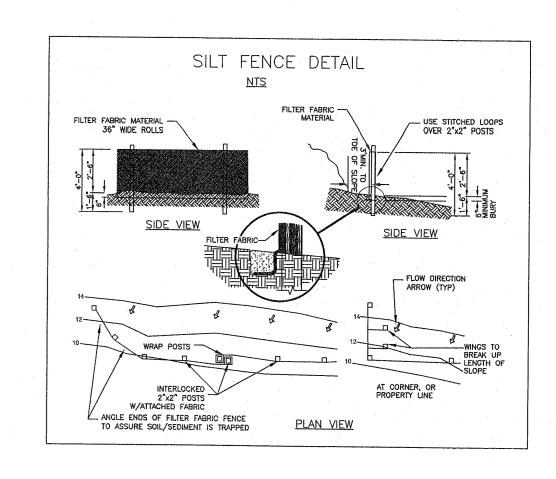
PERCOLATION TEST 1 - PT1

DEPTH - 24"

PRE-SOAK - 9:10AM

TIME	READING	WATER LEVEL DRE	IP (IIRATE MIN./II
9: 45	4.50"		
9: 51	15.50"	11.00"	0.55
9:59	18.00"	2.50"	3.20
10:06	19.50"	1.50"	4.67
10:20	21.00"	1.50"	9.33
10:25	21.50"	0.50"	10.00
10:30	21.50"	0.00"	0.00
10: 35	22.00"	0.50"	10.00
10:40	23.00"	1.00"	5.00
10: 45	23.50"	0.50"	10.00

PERCOLATION RATE AT 24" DEPTH = 10 MINUTES/INCH



DETAIL DRAWINGS

137 GAY HILL ROAD SUBDIVISION

PROPERTY BELONGING TO:

JOHN M. & LYNETTE S. CROWLEY

137 GAY HILL ROAD

MONTVILLE, CONNECTICUT

**REVISIONS:**June 27, 2022
JULY 26, 2022
AUGUST 15, 2022

SHEET 3 DF 3