

NOTES:

- MAP REFERENCE: THE EXISTING CONDITIONS BASE MAP WAS DIGITIZED FROM A SCANNED PDF OF THE MAP ENTITLED "TOPOGRAPHIC MAP SIMONI SUBDIVISION (RESIDENTIAL LOT) PREPARED FOR ANGELO SIMONI EAST HAMPTON, CONN". DATED: 7-23-10, SHEET 1 OF 1, MAP NO 053-10-IT, PREPARED BY: CHATHAM ENGINEERING INC.
- WETLAND SOILS FIELD LOCATED BY CASEY MRACHEK, SOIL SCIENTIST PER MAP REFERENCE IN NOTE 1.
- SEE SHT SP-2 FOR SITE DESIGN

TEST PIT # 1

DATE: 5-27-10
 DEPTH: 76"
 GROUNDWATER: NONE
 MOTTLING: 49"
 LEDGE: NONE
 ROOTS: 49"
 RESTRICTIVE: 49"
 MATERIALS: 0-12" TOPSOIL
 12-20" ORANGE BROWN FINE SANDY LOAM (LOOSE)
 20-49" BROWN COARSE SAND AND GRAVEL W/ ROCKS (LOOSE)
 49-76" GREYISH SANDY TILL

TEST PIT # 2

DATE: 5-27-10
 DEPTH: 93"
 GROUNDWATER: NONE
 MOTTLING: 35"
 LEDGE: NONE
 ROOTS: 36"
 RESTRICTIVE: 35"
 MATERIALS: 0-9" TOPSOIL
 9-24" ORANGE BROWN LOAMY SAND (LOOSE)
 24-35" BROWN COARSE SAND AND GRAVEL (LOOSE)
 35-93" GREYISH SANDY TILL

TEST PIT # 3

DATE: 5-27-10
 DEPTH: 70"
 GROUNDWATER: NONE
 MOTTLING: NONE SEEN
 LEDGE: NONE
 ROOTS: 29"
 RESTRICTIVE: 34"
 MATERIALS: 0-8" TOPSOIL AND LEAF LITTER
 8-20" ORANGE BROWN LOAMY FINE SAND, ROCKS IN LAYER (LOOSE)
 20-34" TAN MEDIUM SAND AND GRAVEL
 34-70" GREY SANDY TILL W/ ROCKS AND BOULDERS

TEST PIT # 4

DATE: 5-27-10
 DEPTH: 76"
 GROUNDWATER: NONE
 MOTTLING: NONE SEEN
 LEDGE: NONE
 ROOTS: 37"
 RESTRICTIVE: 37"
 MATERIALS: 0-8" TOPSOIL AND LEAF LITTER
 8-25" ORANGE BROWN FINE SANDY LOAM (LOOSE)
 25-37" TAN MEDIUM SAND AND GRAVEL (LOOSE)
 37-76" GREYISH SANDY TILL

PERC TEST # 1

DATE: 6-03-10
 DEPTH: 18.5"
 RATE: 2.1 MIN./IN

PERC TEST # 2

DATE: 6-03-10
 DEPTH: 20.75"
 RATE: 3.3 MIN./IN

LOT 2

TEST PIT # 5

DATE: 5-27-10
 DEPTH: 78"
 GROUNDWATER: NONE
 MOTTLING: 43"
 LEDGE: NONE
 ROOTS: MOST 38", SOME 54"
 RESTRICTIVE: 43"
 MATERIALS: 0-3" LEAF LITTER
 3-13" TOPSOIL
 13-29" ORANGE BROWN LOAMY SAND (LOOSE)
 29-78" GREYISH SANDY TILL

TEST PIT # 6

DATE: 5-27-10
 DEPTH: 77"
 GROUNDWATER: NONE
 MOTTLING: 39"
 LEDGE: NONE
 ROOTS: 36"
 RESTRICTIVE: 39"
 MATERIALS: 0-9" TOPSOIL AND LEAF LITTER
 9-28" ORANGE BROWN FINE SAND LOAM (LOOSE)
 28-35" TAN FINE SAND
 35-77" GREYISH SANDY TILL

TEST PIT # 7

DATE: 5-27-10
 DEPTH: 75"
 GROUNDWATER: NONE
 MOTTLING: 30"
 LEDGE: NONE
 ROOTS: 41"
 RESTRICTIVE: 30"
 MATERIALS: 0-10" TOPSOIL AND LEAF LITTER
 10-25" ORANGE BROWN FINE SAND LOAM (LOOSE)
 25-39" TAN FINE SAND, SOME GRAVEL
 39-75" GREYISH BROWN SANDY TILL

TEST PIT # 8

DATE: 5-27-10
 DEPTH: 68"
 GROUNDWATER: NONE
 MOTTLING: 35"
 LEDGE: NONE
 ROOTS: 30"
 RESTRICTIVE: 35"
 MATERIALS: 0-10" TOPSOIL AND LEAF LITTER
 10-28" ORANGE BROWN LOAMY FINE SAND (LOOSE)
 28-32" TAN FINE SAND, SOME SILT (LOOSE)
 32-68" GREYISH SANDY TILL

PERC TEST # 3

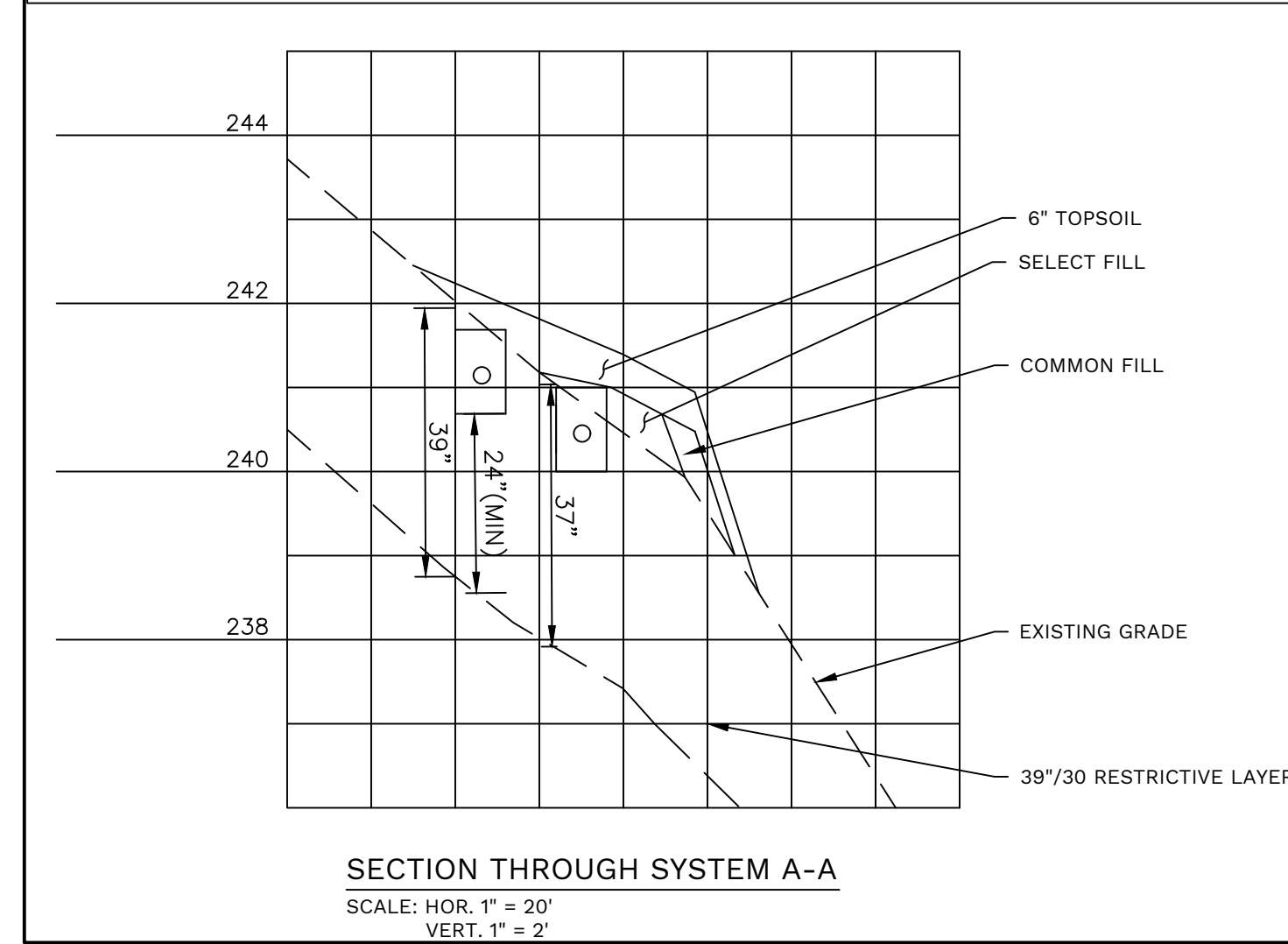
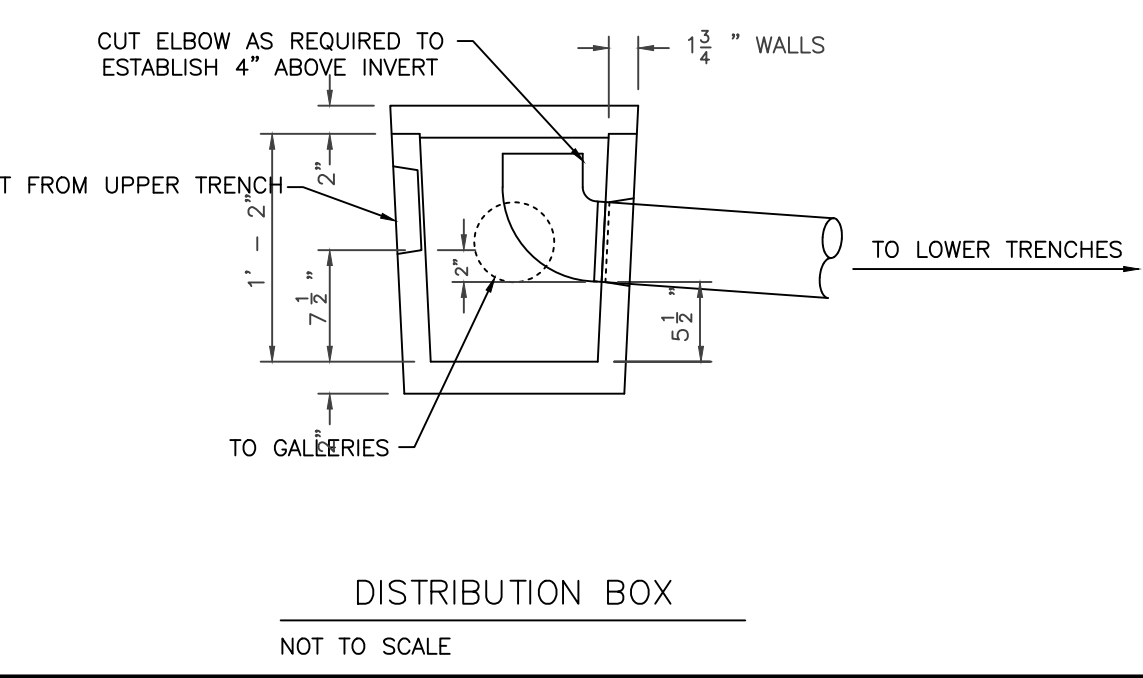
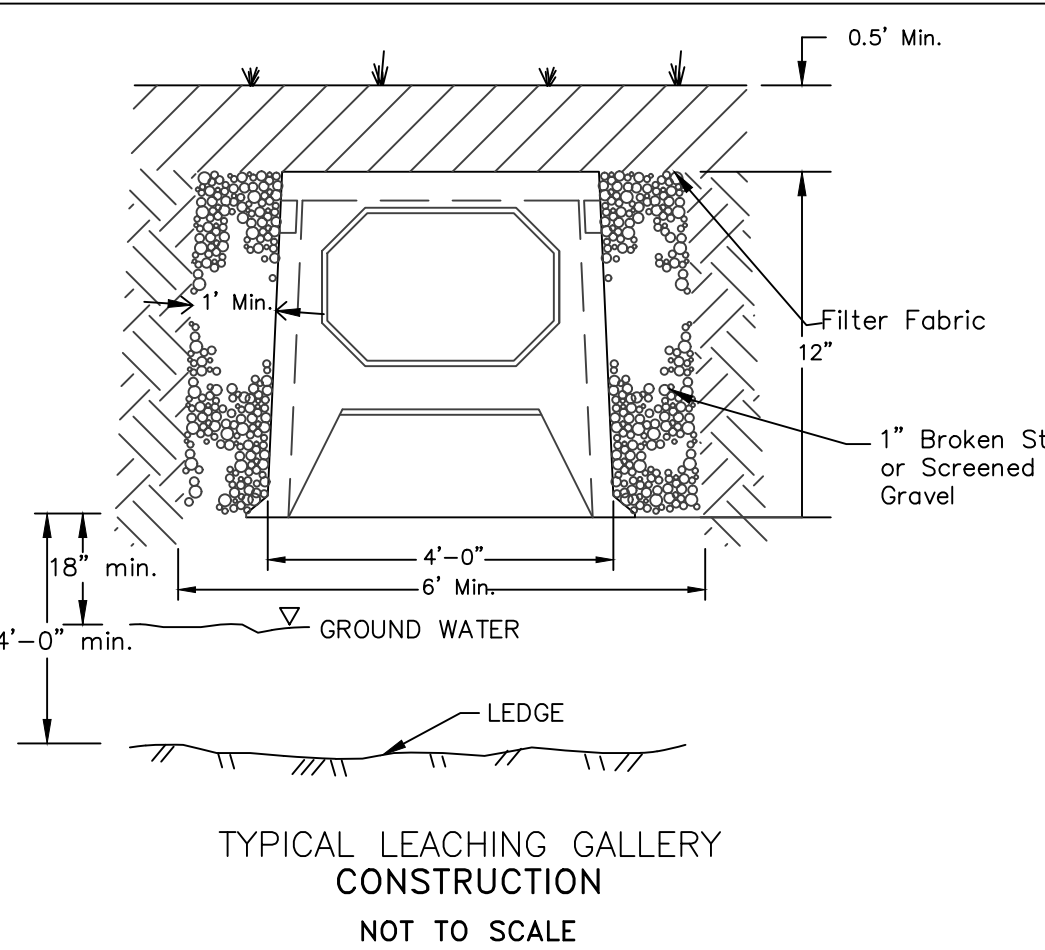
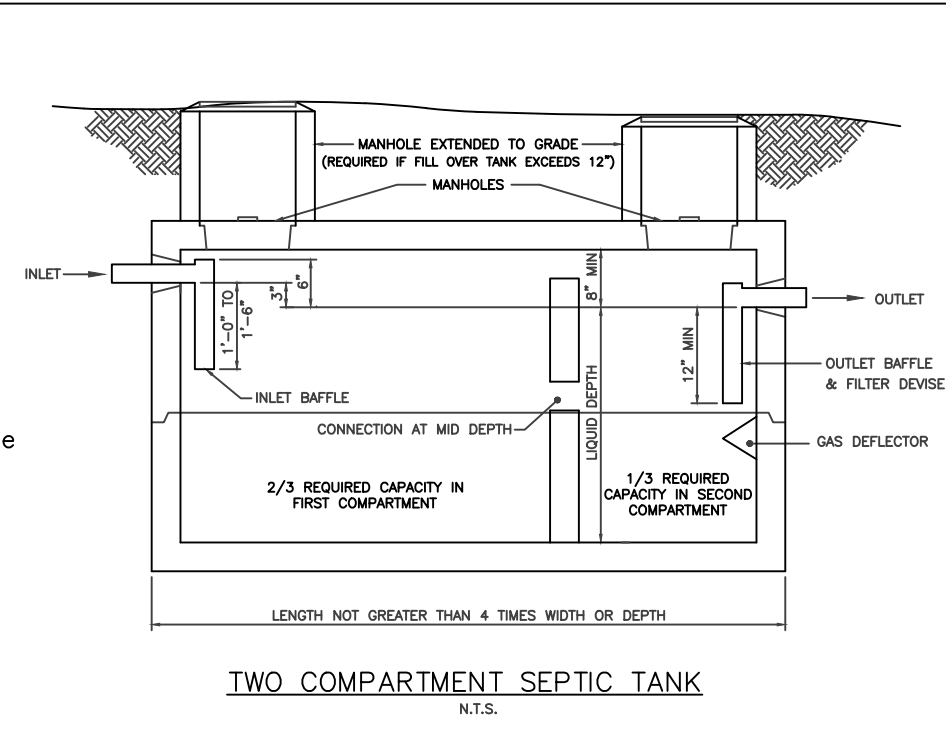
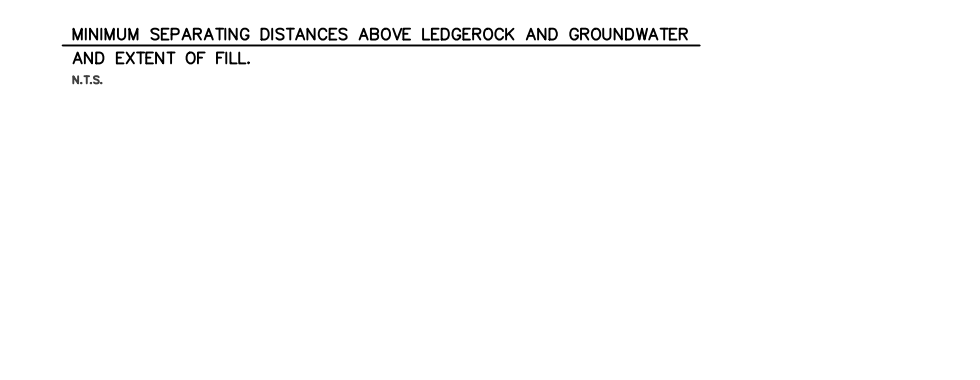
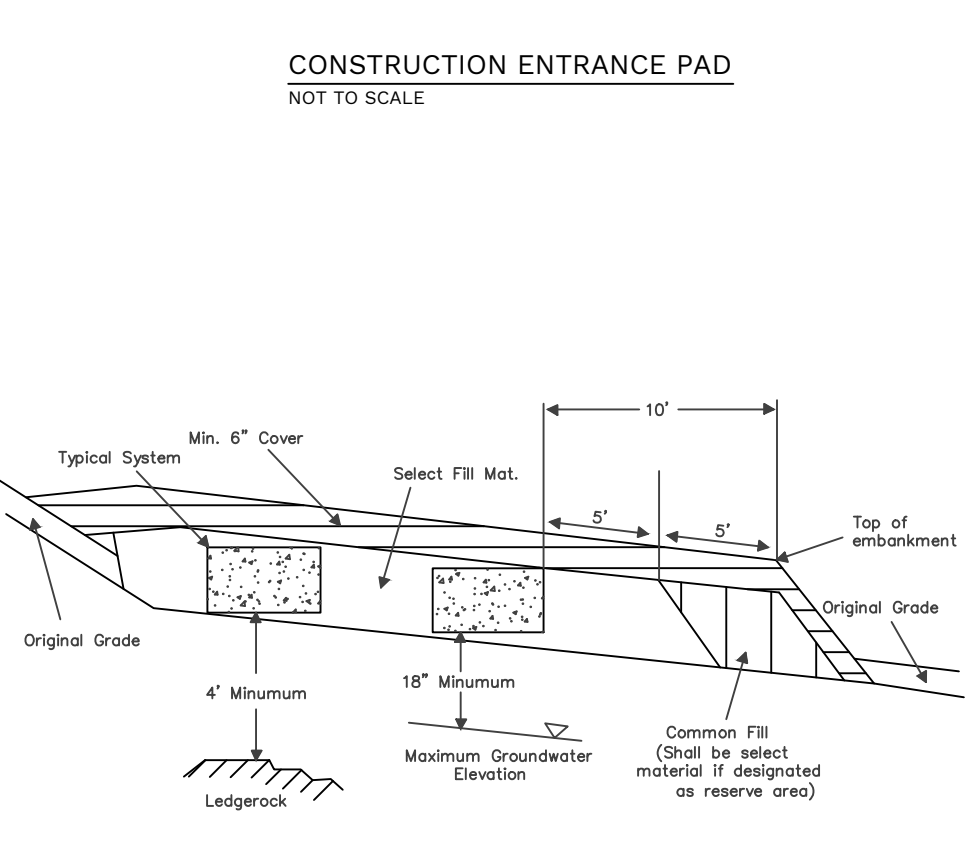
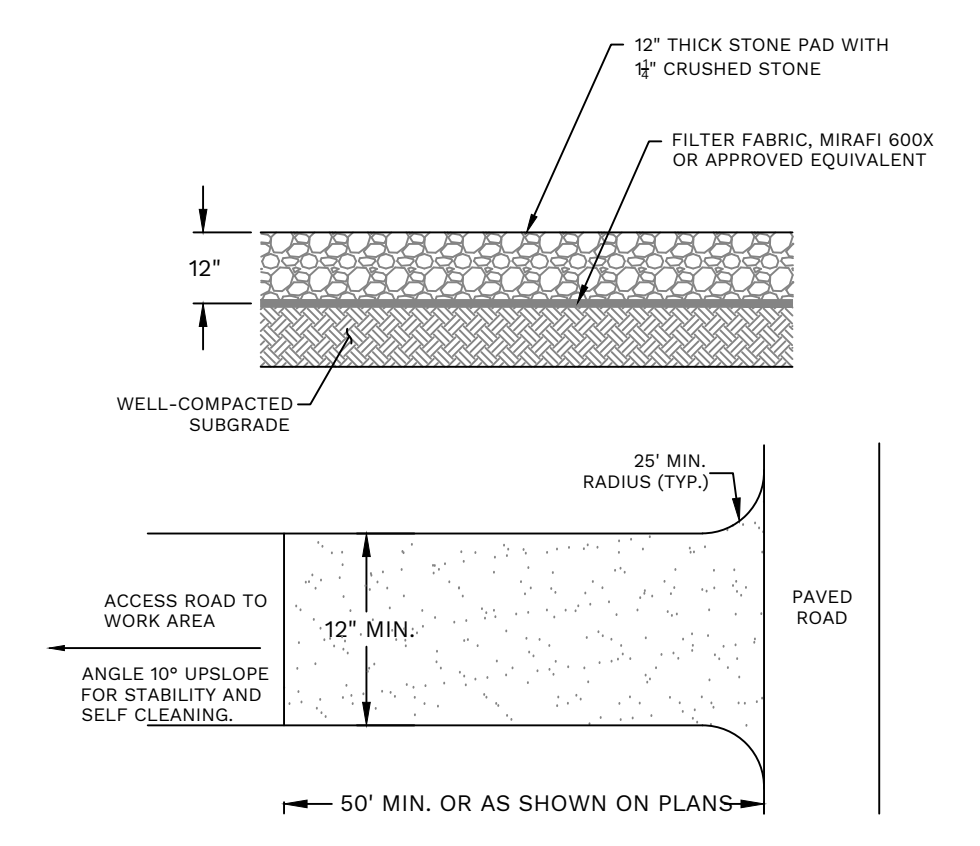
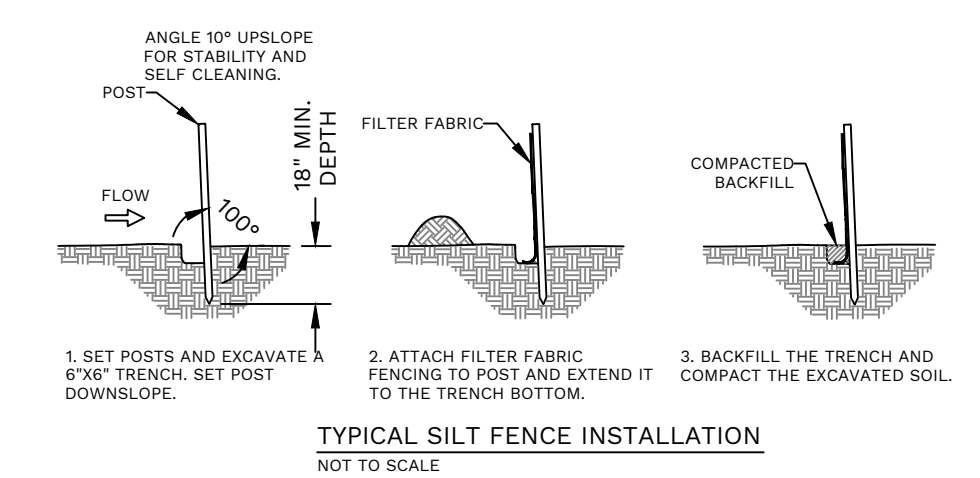
DATE: 6-03-10
 DEPTH: 24"
 RATE: 5.7 MIN./IN

PERC TEST # 4

DATE: 6-03-10
 DEPTH: 22.5"
 RATE: 3.3 MIN./IN

SOIL DATA TABLE

SYMBOL	SYMBOL NAME
60B	CANTON AND CHARLTON FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES
60C	CANTON AND CHARLTON FINE SANDY LOAMS, 8 TO 15 PERCENT SLOPES
60D	CANTON AND CHARLTON SOILS, 15 TO 25 PERCENT SLOPES
109	CANTON AND CHARLTON FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES



SELECT FILL:

- 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 RESTARTED.
- THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

FOR WET SIEVE ANALYSES:

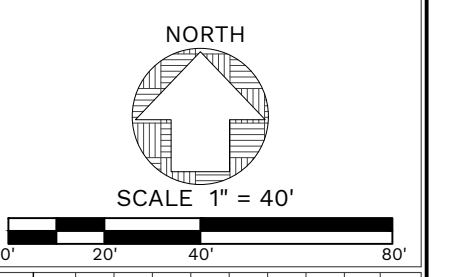
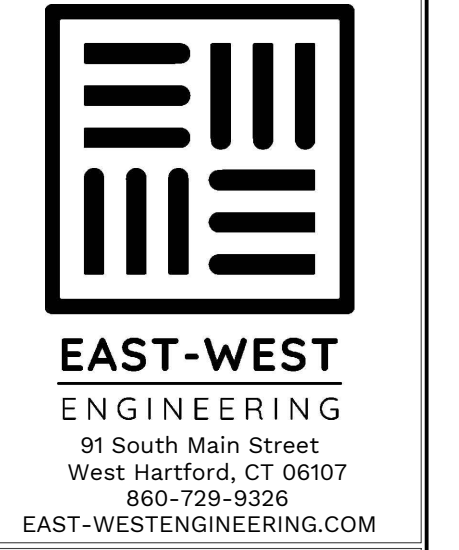
SIEVE SIZE:	% PASSING:
#4	100
#10	70 - 100
#40	10 - 50 (SEE NOTE BELOW)
#100	0 - 20
#200	0 - 5

FOR DRY SIEVE ANALYSES:

SIEVE SIZE:	% PASSING:
#4	100
#10	70 - 100
#40	10 - 50
#100	0 - 5
#200	0 - 2.5

NOTE: PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.

THE RESPONSIBILITY FOR THE PREPARATION OF A LEACHING AREA UTILIZING "SELECT MATERIAL" IS THAT OF THE LICENSED INSTALLER. THE INSTALLER SHALL TAKE THE NECESSARY STEPS TO PROTECT THE UNDERLYING NATURALLY OCCURRING SOILS FROM OVERCOMPACTION AND SILTATION ONCE EXPOSED.



REVISIONS

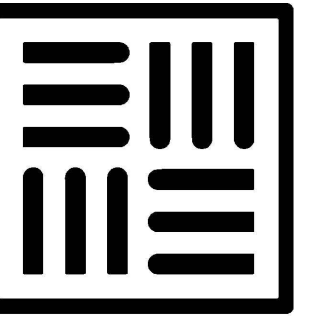
NO.	DATE	DESCRIPTION
1	08.07.2023	PER HEALTH DEPT. COMMENTS.

DATE: 06.14.2023
 SCALE: 1" = 40'
 PROJECT NO.: 1116
 DESIGNED BY: GBS
 DRAWN BY: Y.T.
 REVIEWED BY: GBS

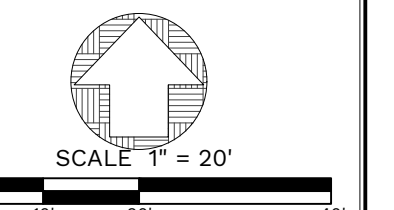
D SIROIS
 292 W HIGH STREET
 EAST HAMPTON, CONNECTICUT

OVERALL SITE LAYOUT PLAN
 SHEET NUMBER
SP-1

DRAWING NAME: SP-1.dwg LAYOUT: SP-1 PLOT DATE: Aug 07, 2023 - 8:28am



**EAST-WEST
ENGINEERING**
91 South Main Street
West Hartford, CT 06107
860-729-9326
EAST-WESTENGINEERING.COM



NO.	DATE	DESCRIPTION
1	08.07.2023	PER HEALTH DEPT. COMMENTS
2	08.23.2023	ADDED PERC TEST A

NO.	DATE	DIVISION	DESCRIPTION
1	01.01.2023	SCALE	1" = 20'
1	08.07.2023	GBS	DESIGNED BY: GBS
2	08.23.2023	GBS	DRAWN BY: YT
			REVIEWED BY: GBS

D SIROIS

292 W HIGH STREET
EAST HAMPTON, CONNECTICUT

**SITE
LAYOUT
PLAN**

SHEET NUMBER
SP-2

NOTES:
1. SITE TO BE OFF-GRID. NO ELECTRIC LINES TO BE INSTALLED FROM STREET TO BE POWERED BY ON-SITE SOLAR ARRAY.

SEPTIC SYSTEM NOTES:

- PIPE FROM FOUNDATION TO SEPTIC TANK SHALL BE PVC SCHEDULE 40 ASTM D-1785.
- PIPE BETWEEN TANK AND GALLERIES SHALL BE PVC ASTM D-3034 SDR-35 OR ASTM D-3033.
- SEPTIC TANK TO BE 4000 PSI CONCRETE DESIGNED ACCORDING TO CONNECTICUT PUBLIC HEALTH CODE SECT. 19-13-B103V.
- NO UNDERGROUND FUEL TANKS, BURY HOLES, OR OTHER SOURCES OF POLLUTION TO BE WITHIN 75' OF A WELL.
- SOIL TESTING INFORMATION FROM MAP REFERENCE 1.
- IF SOIL CONDITIONS ARE ENCOUNTERED THAT ARE DIFFERENT THAN AS DEPICTED ON THIS PLAN, THE INSTALLER SHALL STOP WORK AND NOTIFY THE HEALTH DEPARTMENT AND THE DESIGN ENGINEER IMMEDIATELY.
- IT IS RECOMMENDED THAT THE HEALTH DEPARTMENT BE CONTACTED BEFORE ANY SITEWORK IS PERFORMED.
- SEPTIC SYSTEM IS TO BE STAKED AND GRADED BY A LICENSED LAND SURVEYOR UNDER THE SUPERVISION OF THE DESIGN ENGINEER. A BENCH MARK IS TO BE SET AT THE TIME OF THE HOUSE AND SEPTIC SYSTEM TAKE OUT.
- SEPTIC SYSTEM AREA SHALL HAVE ALL STUMPS AND TOPSOIL REMOVED.
- SUBSOIL IN THIS AREA SHOULD NOT BE DISTURBED.
- ONCE THE TOPSOIL HAS BEEN REMOVED FROM THE AREA OF THE SYSTEM, THE CONTRACTOR SHALL SCARIFY THE TOP 3 TO 4 INCHES OF THE ENTIRE AREA PRIOR TO PLACEMENT OF FILL. SCARIFICATION SHALL ONLY TAKE PLACE WHEN THE SOIL IS DRY AND UNSATURATED.
- THE FILL IS TO BE DUMPED AT THE EDGE OF THE STRIPPED AREA AND SPREAD AND COMPACTED WITH TRACK DRIVEN VEHICLES IN 6" LIFTS TO 90% DENSITY BEFORE TRENCH EXCAVATION. NO TRAFFIC OTHER THAN TRACK DRIVEN EQUIPMENT IS TO CROSS, DUMP, UNLOAD OR OTHERWISE COMPACT THE FILL.
- THE BOTTOM OF THE TRENCHES SHALL BE ADJUSTED AS NEEDED TO MAINTAIN A MINIMUM OF 18" TO MOTTLING AND 48" TO LEDGEROCK. ALL ADJUSTMENTS MUST BE APPROVED BY THE HEALTH DEPARTMENT AND THE DESIGN ENGINEER.
- SYSTEM AREA TO BE LOAMED, SEDED, AND GRADED TO SHED SURFACE RUNOFF AWAY FROM SYSTEM.
- THE CONTRACTOR SHALL FURNISH SUFFICIENT INFORMATION (LOCATION & ELEVATION) TO THE ENGINEER FOR THE PURPOSE OF CREATING AN AS-BUILT DRAWING FOR THE HEALTH DEPARTMENT.

PERC TEST A
PERFORMED ON 8/23/23
WITNESSED BY GALEN SEMPREBON, P.E., LEED AP, EAST-WEST ENGINEERING
DEPTH = 21"
PRESOAK AT 9:52 AM TO 9:01, DRY AT 10:23 AM

PERC TEST RESULTS:

TIME (AM)	WATER LEVEL (MEASURED DOWN FROM SURFACE)	RATE (MINUTES/INCH)	
10:25	8"	1	
10:27	8"	2	
10:29	9"	2.67	
10:31	9"	4	
10:33	10"	5.33	
10:35	11"	3.2	
10:37	11"	2.4	
10:39	11"	4.8	
10:41	12"	4.8	
10:44	13"	6	
10:47	14"	6	
10:50	15"	6	
10:53	15"	6	
10:56	16"	6	
10:59	16"	6	
11:02	17"	6	
11:05	17"	6	
11:08	18"	6	
11:11	18"	6	
11:14	19"	6	
11:17	19"	6	
11:20	20"	6	
11:23	20"	(DRY)	

RATE: LESS THAN 10.1 MINUTES/INCH

SEPTIC SYSTEM DESIGN:

NO. BEDROOMS = 4
NO. LARGE CAPACITY TUB/JACUZZI = 0
100 - 200 GAL. = 0 >200 GAL. = 0 GAL
4 BDRM = 1125 GAL. (SEPTIC TANK)
GARBAGE DISPOSAL (YES) = 250
WTW (POSSIBLE) *250 (UNKNOWN)

REQUIRED TANK CAPACITY = 1500*
PERC RATE = LESS THAN 10.1 MIN/INCH
REQUIRED LEACHING AREA = 577.50 SF
USE SYSTEM WITH EFF. AREA = 5.9 SF/FT.
TOTAL TRENCH LENGTH REQUIRED = 97.9 LF
PROVIDE: 2, 12" GALLERIES @ 56 LF (112 LF)

* IF WTW IS REQUIRED INCREASE SEPTIC TANK CAPACITY TO 2000 GALS.

M. L. S. S.

HYDRAULIC FACTOR (HF) = 28
(DEPTH= 30" SLOPE= 8%)

FLOW FACTOR (FF) = 1.75
(# BEDROOMS= 4)

PERCOLATION FACTOR (PF) = 1.0
(PERCOLATION RATE= LESS THAN 10.1)

M.L.S.S.= HF X FF X PF = 49.0



