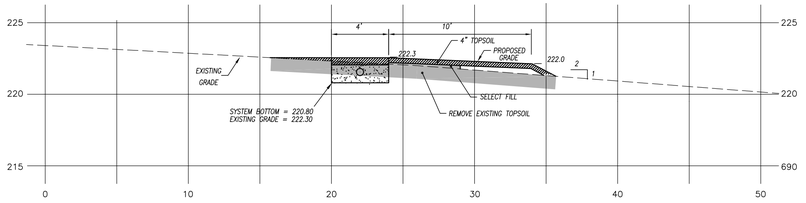
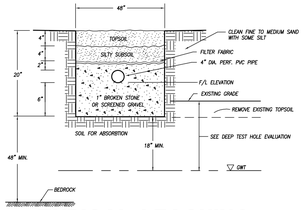


CROSS SECTION 'A-A'

SCALE; 1" = 5'



TYPICAL LEACHING TRENCH SECTION

NOT TO SCALE

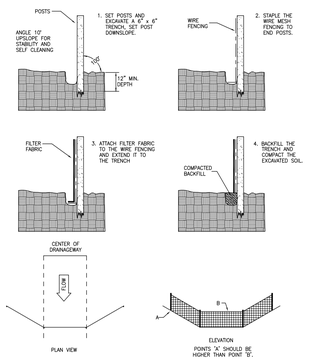
EROSION & SEDIMENTATION NOTES AND SEQUENCE OF OPERATIONS

1. The proposed activity consists of the construction of a commercial building, driveway, septic system and well.
2. Prior to any construction, excavation or filling, all improvements shall be accurately staked in the field by a land surveyor registered in the State of Connecticut.
3. After field staking all erosion sedimentation control devices as shown on the plan and as detailed shall be installed. Properly installed haybales maybe used in lieu of silt fence.
4. All trees and brush within the areas of disturbance shall be removed. All limbs and saplings less than 4" in caliper shall be chipped and stockpiled for later reuse as slope stabilization and mulch material. All trees in excess of 4" in caliper shall be removed from the site and disposed of in a manner consistent with State, Federal, and local regulations. Stumps shall be excavated from the area of disturbance and likewise disposed of in a manner consistent with all applicable laws.
5. Final grades shall be achieved as quickly as possible, and immediately thereafter, sideslopes shall be stabilized with 4" of topsoil. The area shall be seeded and mulched with straw mulch in accordance with the specifications contained herein.
6. All erosion and sedimentation control measures shall be constructed in accordance with standards and specifications of the "Connecticut Guidelines for Soil Erosion and Sedimentation Control (1985)", as amended
7. All control measures shall be maintained in effective conditions throughout the construction period and shall be inspected periodically but not less than once per month, and after a total rainfall in one storm event of 1 inch in 24 hours. Sediment shall be promptly removed from control structures and disposed of on-site in upland areas outside the buffer zone of wetlands. Any silt fence or hay bales damaged as a result of a storm event or construction activities, shall be immediately repaired.
8. The Town of Pomfret shall be notified prior to commencement of construction and at key point during construction so that inspections of erosion and sedimentation control measures can be scheduled.
9. The responsibility for implementation of this plan shall rest with Town of Pomfret, 5 Haven Road, Pomfret, CT, 06259 Telephone: (860) 974-0191
10. Seed Mixture:

UPON ACHIEVEMENT OF FINAL GRADES, 4" OF TOPSOIL SHALL BE SPREAD AND SEEDED WITH FOLLOWING MIX:	
SEED	LBS./1000 S.F.
CREEPING RED FESCUE	0.45
REDTOP	0.05
PERENNIAL RYEGRASS	0.20
KENTUCKY BLUEGRASS	0.15
	TOTAL: 0.85
AFTER SEEDING IS COMPLETE SPREAD MULCH AT THE RATE OF 1 HAYBALE/500 S.F.	

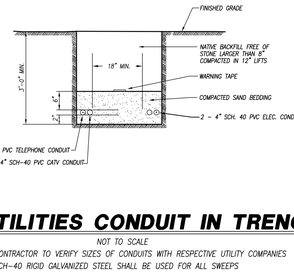
11. Schedule of construction actuaries:

Lot Clearing:	May 1 – June 1
Site Grading and Foundation Construction: Driveway and Septic	June 1 – June 15
System Installation:	June 15 – July 1
Building Construction:	July 1 – Aug 1
Loam and Seeding:	Aug 1 – Aug 15



SILT FENCE

NOT TO SCALE



U/G UTILITIES CONDUIT IN TRENCH

NOT TO SCALE

NOTE: 1. CONTRACTOR TO VERIFY SIZES OF CONDUITS WITH RESPECTIVE UTILITY COMPANIES
2. SCH-40 RIGID GALVANIZED STEEL SHALL BE USED FOR ALL SWEEPS

SEPTIC SYSTEM CONSTRUCTION NOTES

1. The building and septic system shall be accurately staked in the field prior to construction by a licensed Land Surveyor in the State of Connecticut.
2. Topsoil shall be removed and the area of primary leaching field scarified prior to placement of fill. Fill shall meet the gradation requirements noted below. Fill material shall be approved by the engineer or the sanitarian prior to placement. It shall be compacted in six-inch lifts and shall extend a minimum of fifteen feet (15') beyond the last leaching trench before tapering off.

   Septic System Fill Gradation Requirements

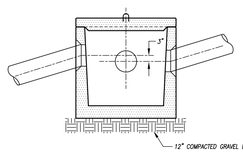
   Coarse Fraction (less than 3" and greater than No. 4 sieve): 45% Max.

   Fine Fraction:

Sieve	Percent Passing WET	DRY
No. 4	100	100
No. 10	70–100	70–100
No. 40	10–50*	10–75
No. 100	0–20	0–5
No. 200	0–5	0–2.5

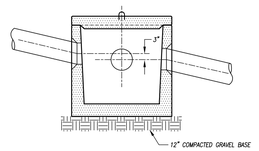
   Percent passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%.
3. All precast structures such as septic tanks, distribution boxes, etc. shall be set level on six inches (6") of compacted gravel base at the elevations specified on the plans.

   Solid distribution pipe shall be 4" diameter SDR-35 PVC MEETING ASTM D-3034 with compression gasket joints. It shall be laid true to the lines and grades shown on the plans and in no case have a slope less than 0.125 inches per foot.
4. Perforated distribution pipe shall be 4" diameter PVC meeting ASTM D-2729 or D-3350, 1500 lb. minimum crush.
5. Sewer pipe from the foundation wall to the septic tank shall be centrifically cast iron meeting the requirements of ASTM A 74 or schedule 40 PVC meeting ASTM-1785.
6. Foundation drain outlet shall be 4" diameter SDR-35 PVC meeting the requirements of ASTM D-3034 with rubber compression gasket joints and backfilled with a non free-draining material.



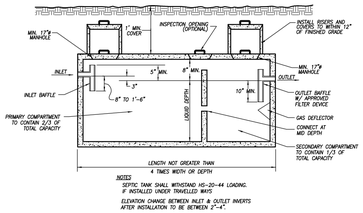
OVERFLOW / DISTRIBUTION BOX DETAIL

NOT TO SCALE



DISTRIBUTION BOX DETAIL

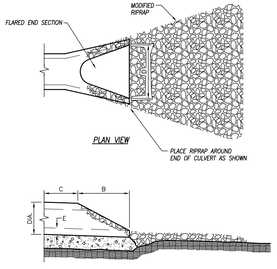
NOT TO SCALE



1,000 GALLON TWO-COMPARTMENT SEPTIC TANK

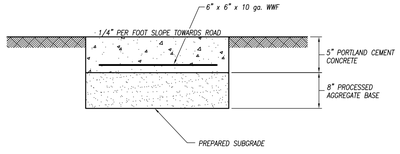
NOT TO SCALE

DIA.	A	B	C	D	E
12"	4"	2'-0"	4'-0 7/8"	2'-0"	2"
15"	6"	2'-3"	3'-10"	2'-6"	2 1/4"
18"	9"	2'-3"	3'-10"	3'-0"	2 1/2"
24"	9 1/2"	3'-7 1/2"	2'-6"	4'-0"	3"
30"	12"	5'-3"	1'-7 3/4"	5'-0"	3 1/2"
36"	15"	5'-3"	2'-10 3/4"	6'-0"	4"
42"	21"	6'-0"	2'-11"	6'-6"	4 1/2"



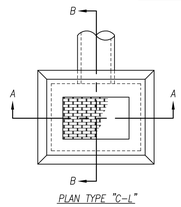
REINFORCED CONCRETE CULVERT END

NOT TO SCALE

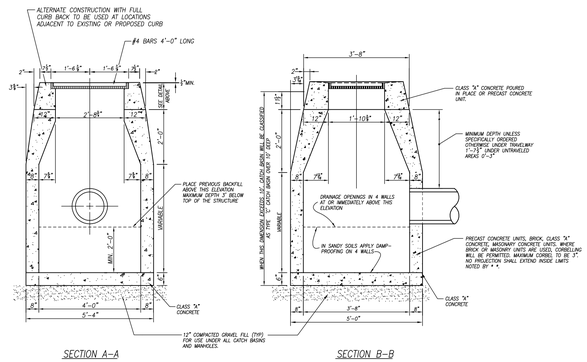


SECTION THRU CONCRETE SIDEWALK

NOT TO SCALE

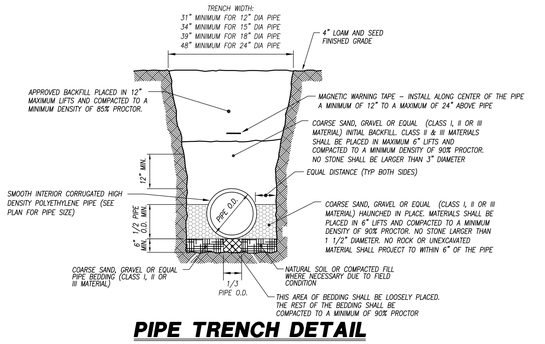


PLAN TYPE "C-L"



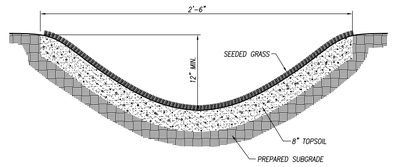
TYPE 'C-L' CATCH BASIN DETAIL

NOT TO SCALE



PIPE TRENCH DETAIL

NOT TO SCALE



GRASS - LINED SWALE

NOT TO SCALE

SOIL PIPE @ F/L = 226.60
SEPTIC TANK
1000 GALLON TWO COMPARTMENT F/L IN = 225.30 F/L OUT = 225.05
DISTRIBUTION BOXES
D-1 (OVERFLOW) F/L IN = 221.55 F/L OUT = 221.30

BASIS OF SANITARY DESIGN

Design Flow: Office = 20 gpd / employee = 20 x 13 = 260 gpd

Percolation Rate	=	2 min. / in.
Area Required	=	173 s.f. effective leaching area
Effective Leaching area	=	3 s.f. / l.f. of trench
Length Required	=	173/3 = 58 l.f.
Length Provided	=	75 l.f.
Min. Leaching system Spread (MLSS)	=	30 X 1.5 X 1.0 = 45'
MLSS Provided	=	75'

LEACHING FIELD

1 Trench @ 75 l.f. each

Maximum depth into existing grade = 20"

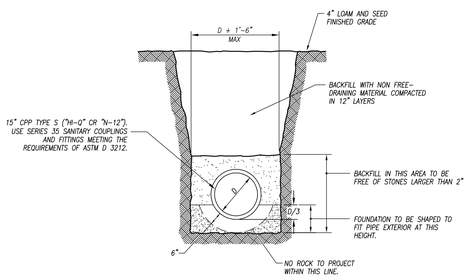
DEEP TEST HOLE EVALUATION – May 27, 2015
Northeast District Department of Health

TEST PIT	DEPTH	PROFILE
TP 1	0" – 8"	Topsoil with Organics
	8" – 30"	Reddish Brown Fine Loamy Sand
	30" – 83"	Gray Very Fine Sandy Loam, Mottled, Wet
	Ground Water	78" Seeps 68"
	Mottling	30"
	Ledge	N/A
	Roots	28"
TP 2	0" – 11"	Topsoil with Organics
	11" – 29"	Reddish Brown Fine Loamy Sand
	29" – 38"	Yellow Brown Fine Sand to Course Loamy Sand
	38" – 61"	Tan Fine Loamy Sand
	61" – 90"	Gray Very Fine Sandy Loam, Mottled
	Ground Water	N/A
	Mottling	61"
	Ledge	N/A
	Roots	38"
TP 3	0" – 8"	Topsoil with Organics
	8" – 28"	Yellow Brown Fine Sandy Loam
	28" – 93"	Gray Moderate Compact Very Fine Sandy Loam, Mottled
	Ground Water	N/A
	Mottling	28"
	Ledge	N/A
	Roots	27"

PERCOLATION TEST DATA – May 27, 2015
Performed by: Northeast District Department of Health

HOLE	TIME	READING
BB	9:48	7"
	9:49	10 3/4"
	9:50	15 3/4"
	9:51	18 3/4"
	9:52	21"
	9:53	23 3/4"
	9:54	25 1/4"
	9:55	26 3/4"
	9:56	28"
	9:57	28 3/4"
	10:01	30 3/4"
	Depth	35"

Minimum Percolation Rate = 2 min/inch



TIGHT PIPE TRENCH DETAIL

NOT TO SCALE

REVISIONS		
DATE	DESCRIPTION	BY
4/2/2018	RELOCATED GATE, DOT ENTRANCE IMPROVEMENTS	JES
3/26/2018	SEPTIC DESIGN	JES

Detail Sheet
Prepared For

TOWN OF POMFRET
EMERGENCY RESPONSE CENTER

MASHAMOQUET ROAD (ROUTE #44)
POMFRET, CONNECTICUT

KWP associates
SURVEYING ~ ENGINEERING ~ SITE PLANNING
250 Killingly Road
Pomfret Center, Ct. 06259-0106

SCALE:	AS NOTED
DATE:	1/11/2018
SHEET:	2 OF 2
PROJ #	01005
FB:	
Dwn:	JES
Chk:	