



- Notes:
- All construction activities are outside wetland or watercourse areas. Wetland soils flagged by Freshwater Wetland Services, Kate Bednaz, PWS #1906.
 - All construction activities besides minor grading for driveway entrance are outside regulated setback areas.
 - The soil profile is consistent throughout the site.
 - All activities on this site shall follow procedures set forth in the 2002 Sediment and Erosion Control Guidelines (DEEP Bulletin 34) prepared by the Connecticut Council on Soil and Water Conservation in cooperation with the Connecticut Department of Energy and Environmental Protection as amended through 2012.
 - All erosion control devices shall be in-place prior to commencement of work.
 - The Contractor shall notify the Town's inland wetlands agent one week prior to construction in writing prior to commencement of work.
 - All necessary modifications arising from the Town's initial visit to the site shall be addressed prior to commencement of work.
 - Inspection of sediment and erosion control devices shall be performed weekly and within 24 hrs of a precipitation event greater than 0.5".
 - If any sediment and erosion control devices are deficient or require maintenance all construction operations shall be suspended and recommence upon repair of such devices.
 - Once final grade is completed, any excess materials shall be removed from the site.
 - Owner is prohibited from discharging any future water system to the septic system.
 - Select Fill Source shall be approved only if sieve test is less than two weeks old. Engineer shall perform a minimum of two percolation test on the in-situ select fill and field verify system location prior to installing leaching system.
 - All adjacent property wells are further than 75-ft from proposed system.
 - Construction of the leaching trenches is based on maintaining a minimum distance of 18-inches above the restrictive layer. If Contractor finds conditions differ, then the design engineer shall be so informed prior to proceeding with trench layout.
 - Building locations, driveway and septic system shall be staked out by a licensed professional surveyor.

BASIS OF DESIGN SUBSURFACE SEWAGE DISPOSAL SYSTEM
 Proposed Dental Office Building
 "Prepared By: MGS Engineering, LLC"

Gross Area of Building: 6,500 sf
 Design Flow (0.2 gal/day/sf for dental/medical office with examination rooms) = 0.2gal/day*6500 = 1300 gal/day
 Septic Tank Size: 1300 Gallons (Required)
 1500 Gallons (Provided)
 Percolation Rate: Field measured by Bushnell Associates, LLC
 Design Percolation Rate: 1-10 Min./Inch
 Depth to Restrictive Layer: 30" (mottling TP #6)
 Hydraulic Gradient: > .081 Ft./Ft.
 Hydraulic Factor: 26
 Flow Factor: 4 bedroom = (1300)/(300) = 4.33
 Percolation Factor: 1
 MLSS Required: 26 * 4.33 * 1. = 112.6 ft.
 MLSS Provided: 112.8 ft.

Leaching Area Required: 1300/1.5 = 866.67 sf
 Primary System: (18" High GST 6218)
 62 LF*14 SF/LF*1 TRENCHES =868 SF
 Reserve Area: Shown on Plan

LEGEND

PROPERTY LINE SURVEY CONTROL POINT EX. 2 FT. CONTOUR PR. 2 FT. CONTOUR EX. EDGE OF PWMT. EXISTING WELL PROPOSED WELL EXISTING SEPTIC TANK PROPOSED SEPTIC TANK DISTRIBUTION BOX	PROPOSED LEACHING TRENCH SSD SEPARATING DISTANCE WETLAND REGULATED AREA FLAGGED WETLAND SOILS PROPOSED CATCH BASIN PROPOSED MANHOLE (WITH HYDRODYNAMIC STORMWATER SEPARATOR) PROPOSED STORM LINE	SLOPE LIMITS SILT FENCE SOIL TEST LOCATIONS DEEP HOLE LOCATION
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BM ASSUMED ELEV. 605.35' P.K. AT CONTROL POINT HUB

SOIL TEST DATA

Performed By: Clark Engineering 4/21/20

DP#1	0-10" 10"-20" 20"-38" 38"-80"	Topsoil Fill Dark yellowish brown fine sandy loam, some fine gravel Brown sandy loam, firm, mottled Mottling @ 38" No groundwater or refusal	DP#6	0-12" 12-31" 31-72" 38"-80"	Topsoil Dark yellowish brown fine sandy loam, some fine gravel Brown sandy loam, firm, mottled Brown sandy loam, firm, mottled Mottling @ 30", No refusal Groundwater seeping @ 36", heavy flow @ 50"
DP#2	0-24" 24-31" 31-74"	Topsoil Dark yellowish brown fine sandy loam, some fine gravel Brown sandy loam, firm, mottled Mottling @ 38" No groundwater or refusal	DP#7	0-11" 11-28" 28-60"	Topsoil Dark yellowish brown fine sandy loam, some fine gravel Brown sandy loam, firm, mottled Mottling @ 32", No Refusal Groundwater seeping @ 50", Roots to 36"
DP#3	0-5" 5-28" 28-30" 30-72"	Topsoil Gravel Fill Trace original topsoil and subsoil Brown sandy loam, firm, mottled Mottling @ 30", no refusal Groundwater seeping @ 30", heavy flow @ 68"	DP#8	0-23" 23-34" 34-70"	Topsoil Dark yellowish brown fine sandy loam, some fine gravel Brown sandy loam, firm, mottled Mottling @ 34", no refusal No Groundwater
DP#4	0-20" 20-32" 32-64"	Topsoil Dark yellowish brown fine sandy loam, some fine gravel Brown sandy loam, firm, mottled Mottling @ 32", no refusal Groundwater seeping @ 32", standing @ 64"	DP#9	0-8" 8-30" 30-67"	Topsoil Dark yellowish brown fine sandy loam, some fine gravel Brown sandy loam, firm, mottled Mottling @ 36", no refusal No Groundwater
DP#5	0-15" 15-24" 24-68"	Topsoil Dark yellowish brown fine sandy loam, some fine gravel Brown sandy loam, firm, mottled Mottling @ 24", no refusal Groundwater seeping @ 29", heavy flow @ 43"			

Design Depth to Restrictive Layer: 30"
 Design Depth to Ledge: No Ledge Present

GENERAL NOTES

Lot Area: 1.133 Acres
 Zone: C
 Tax Assessor Map: 21/ / 128/ /

Map Reference: Topographic Survey information provided by Dufour Surveying, 575 N. Main St., Bristol, CT 06001.

Boundary Information Obtained from Dufour Surveying, 575 N. Main St., Bristol, CT 06001.

SSDS Plan
Commercial Lot Development
1572 Boston Turnpike
 Prepared For
LADA, PC

Coventry Connecticut

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Scale: 1" = 20'	Project No.: 21-105	Drawing No. 1
Drawn By: MGS	File Name: 2886 GR....dwg	
Revised Through: 03/07/22	Submitted: 02/11/22	