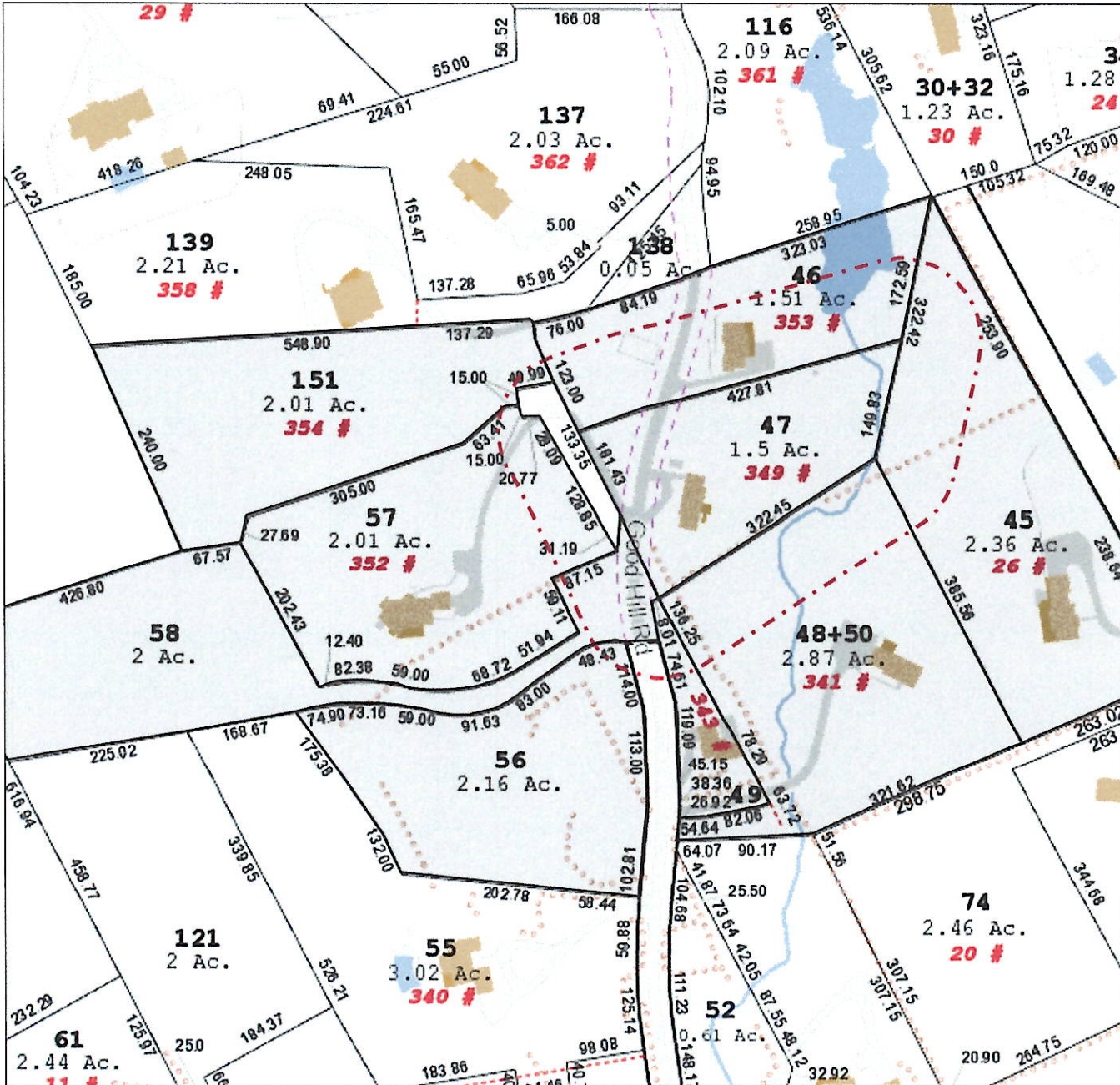


Town of Weston

Geographic Information System (GIS)



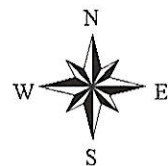
Date Printed: 8/2/2024



MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Weston and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 75 feet



20 2 56
ASPETUCK LAND TRUST INC
P O BOX 444
WESTPORT CT 06880

20 2 46
JACKSON CAROLYN S
20 BOTSFORD HILL ROAD
NEWTOWN CT 06470

20 2 57
ROSENBERG SAMUEL D & YOO-JIN
352 GOODHILL RD
WESTON CT 06883

20 2 58
ASPETUCK LAND TRUST INC
P O BOX 444
WESTPORT CT 06880

20 2 49
CROSBY RAYMOND & CHO
343 GOODHILL ROAD
WESTON CT 06883

20 2 151
AGALLIU LORJAN
540 WEST 163RD STREET
NEW YORK NY 10030

20 2 47
GROVES HARVEY H & BARBARA
349 GOODHILL RD
WESTON CT 06883

20 2 48+50
TERZIAN NUBAR M+MARGUERITE
341 GOODHILL RD
WESTON CT 06883

20 2 45
WEYRAUCH JOHN S & ELLEN R
26 KATYDID LANE
WESTON CT 06883



PAID

DEC 05 2023

ASPETUCK HEALTH DISTRICT

ASPETUCK HEALTH DISTRICT
180 Bayberry Lane, Westport, CT 06880-2855
Telephone: (203) 227-9571

Fee is non-refundable.

\$ 2105.00 Initials: JW

APPLICATION FOR A BUILDING ADDITION, BUILDING CONVERSION, RENOVATION OR ACCESSORY STRUCTURE

Date: Oct. 26, 2023 Owner's Name: Harvey or Barbara Groves

Property Address: 349 Good Hill Rd. Weston 06883 Tel. No.: 203-962-4499

Type of Application: [X] Building Addition [] Renovation [X] Accessory Structure (Deck, Garage, Porch) [] Building Conversion, Change in Use (Winterization)

Give a Brief Description of Proposed Application: (Performing winterization; type and number of rooms being added; square footage of house addition, type of structures to be added, and footprint change, etc.)

demolition of old one car garage + building of a car garage with a new breezeway connecting them + breezeway

Addition/Renovation: [X] No. of bedrooms: 0 No. of bathrooms: 0 No. water use fixtures: 0
Increase in house footprint? [X] Yes [] No No. of other rooms: 0 No. of tubs more than 99 gal.: 0 Heat? [] Yes [X] No
Approximate proposed increase in floor area (in Sq. Ft.) Are footing or foundation drains required? [] Yes [] No?

Existing Structure: [X] Residential [] Non-Residential (Describe): (increase in garage footprint)
No. of bedrooms: 3 No. of bathrooms: 2 1/2 No. of oversized tubs (>99 gal.): 0
Approximate floor area (in Sq. Ft.): 2,000 sq. ft. Water supply: [X] Private well [] Public water
Footing or foundation drains present? [X] Yes [] No

Existing Septic Year system was installed? July [X] New [] Repair Public sewer available? [] Yes [X] No
Size of septic tank: 1000 gals. Size and type of leaching system: 44LF SB-13-36
Curtain drain? [X] Yes [] No Has any soil testing been performed on the property? [X] Yes [] No
If yes, when and by whom? Jim Weisheit + AHD dated 4/10/13

Owner or Duly Authorized Representative (Print) Barbara Groves Contact Phone Number: 203-962-4499
Signed: Barbara Groves Date: Dec. 4, 2023
Harvey or Duly Authorized Representative Harvey Groves Dec 5

ASPETUCK HEALTH DISTRICT REMARKS:

- Compliance with 19-13-B100a required [] Yes [X] No
Possible storm drainage structure required by Engineering..... [X] Yes [] No
Soils evaluation required [] Yes [X] No
SSDS proposal required..... [] Yes [X] No
Wetlands..... [X] Yes [] No [] Don't know

Comments: Existing SSDS appears to be 100% code compliant. Proposed Addition appears to meet the separation distances set forth by the CT PHC. No increase in design flow. Dwelling to remain 3BR per CT PHC, 1 on first 2 on second floor.

APPROVAL: Approved: [Signature] DATE: 12-11-23

FINAL AHD INSPECTION REQUIRED AT COMPLETION OF JOB Yes [X] No []
Final Inspection/Final Approval: Sanitarian Date



Property Information

Property Location	349 GOODHILL ROAD
Mailing Address	349 GOODHILL RD WESTON CT 06883
Land Use	Residential
Zoning Code	R-2AC
Neighborhood	4-5

Owner	GROVES HARVEY H & BARBARA
Co-Owner	
Book / Page	0344/0532
Land Class	Residential
Census Tract	83430
Acreage	1.5

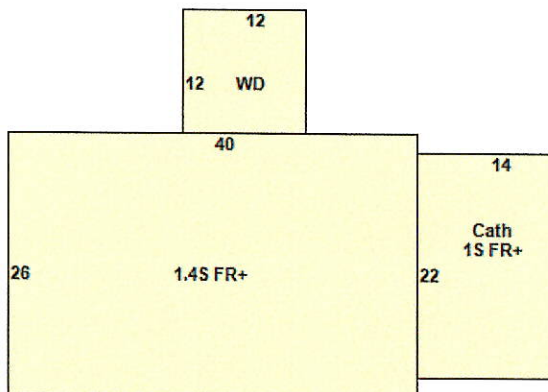
Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	461700	323190
Outbuildings	7400	5180
Land	275500	192850
Total	744600	521220

Building Area Info - sq/ft

Living	1764
Basement	1348
Finished Basement	0
Fin Bsmt Quality	



Primary Construction Details

Year Built	2014
Building Desc.	Residential
Building Style	Cape
Stories	1.4
Exterior Walls	Vinyl Siding
Interior Walls	Drywall
Interior Floors 1	Hardwood

Heating Fuel	Oil
Heating Type	Forced Hot Air
AC Type	Central
Bedrooms	3
Full Bathrooms	2
Half Bathrooms	1
Extra Fixtures	2
Total Rooms	7
Bath Style	NA
Kitchen Style	
Occupancy	1

Building Use	Single Family
Building Condition	Average
Frame Type	Wood Frame
Fireplaces	1
Bsmt Gar	0
Bsmt Access	
Building Grade	0
Roof Style	Gable
Roof Cover	Arch Shingles



Detached Outbuildings

Type	Description	Area (sq ft)	Condition	Year Built
Shed	Frame	160	Excellent	2013
Garage	Detached Garage	264	Poor	1959

Attached Extra Features

Type	Description	Area (sq ft)	Condition	Year Built
Cathedral/Loft	Cath	308	Average	2014
Deck	Wood	144	Average	2014

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
GROVES HARVEY H & BARBARA	0344_0532	4/28/2003	0
GROVES HARVEY H	0132_0494	6/15/1984	0

DRAINAGE ANALYSIS

PREPARED FOR

PROPOSED SITE IMPROVEMENTS

LOCATED AT

349 GOODHILL ROAD

WESTON, CONNECTICUT

GE #24-5758

AUGUST 5, 2024



GRUMMAN ENGINEERING, LLC
CONSULTING CIVIL ENGINEERS
20 KNIGHT STREET
NORWALK, CONNECTICUT 06851
(203) 853-3833
FAX 286-5057

NARRATIVE:

The subject of this report is a 1.5172-acre residential parcel located at 349 Goodhill Road. The purpose of the report is to determine the change in stormwater runoff resulting from the construction of an attached 2-car garage with driveway expansion, and to provide mitigation in accordance with Town of Weston standards.

EXISTING CONDITIONS:

This site which is situated on the eastern side of Goodhill Road, currently contains a single-family residence with paved driveway, shed and detached 1-car garage. There is an existing wetland area which covers a portion of the easterly side of the site. The property slopes from a high point near the existing dwelling to both the east and west with grades ranging from 6-45%. The existing dwelling is served by on-site sewage disposal and private well.

The upland soils at this location are identified in the NRCS Web Soil Survey as being Charlton-Chatfield complex, very rocky, HSG 'B'.

PROPOSED CONDITIONS:

The proposal for this site is to construct a 2-car garage with breezeway onto the north side of the existing dwelling replacing an existing garage, and removal of a shed located north of the existing driveway. The driveway will be expanded to access the new garage. This work is within the 100 ft wetland review area.

PROPOSED DRAINAGE:

In order to account for the change in surface runoff resulting from the proposed improvements, an on-site retention system utilizing Cultec R-150XLHD chambers has been proposed.

The following computations utilize the Hydrocad computer software to determine the post developed runoff for the 50-Year storm event. Rainfall data was taken from the NOAA Atlas 14 table for this location. Only the area west of the flagged wetlands has been reviewed for this analysis.

COMPUTATIONS:

Existing Conditions:

Dwelling -	1,456 s.f.	CN-98
Driveway -	1,433 s.f.	CN-98
Shed -	160 s.f.	CN-98
Garage -	295 s.f.	CN-98
Steps/Walk -	90 s.f.	CN-98
Roadway -	2,264 s.f.	CN-98
Deck -	144 s.f.	CN-98
Lawn -	5,555 s.f.	CN-61
Woods -	34,983 s.f.	CN-55
Total -	46,380 s.f.	

Proposed Conditions:

Dwelling -	2,120 s.f.	CN-98
Driveway -	2,000 s.f.	CN-98
Roadway -	2,264 s.f.	CN-98
Steps/Walk -	90 s.f.	CN-98
Deck -	144 s.f.	CN-98
Lawn -	5,622 s.f.	CN-61
Woods -	34,140 s.f.	CN-55
Total -	46,380 s.f.	

Water Quality Volume (WQV) -

$$WQV = ((1.3'' \times R \times A))/12)$$

$$WQV = (1.3''/12) (0.95) (776 \text{ s.f.}) = 79.9 \text{ c.f.}$$

$$R = 0.05 + 0.009I$$

$$I = \% \text{ Impervious (100\%)}$$

$$A = \text{Site Area}$$

SUMMARY:

Existing Conditions Runoff -	3.22 c.f.s. (11,749 c.f.)
Proposed Conditions Runoff -	3.35 c.f.s. (11,980 c.f.)
Proposed Conditions Runoff – w/ On-Site Retention	3.18 c.f.s. (11,580 c.f.)

CONCLUSIONS:

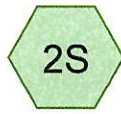
The installation of (2) Cultec R-150XLHD chambers will be adequate to provide temporary storage of the increased runoff resulting from the proposed site improvements. Runoff from the proposed garage roof will be routed into the retention system.

The required water quality volume has also been provided.

The proposal as designed will have no adverse impacts on the wetlands or adjacent properties.



Existing Conditions



Proposed Conditions



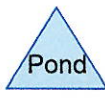
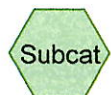
Prop. Runoff Into Retention



On-Site Retention



Total Site Runoff



Routing Diagram for 24-5758 Goodhill Rd

Prepared by GRUMMAN ENGINEERING LLC, Printed 8/2/2024
HydroCAD® 10.00-26 s/n 01412 © 2020 HydroCAD Software Solutions LLC

Summary for Subcatchment 1S: Existing Conditions

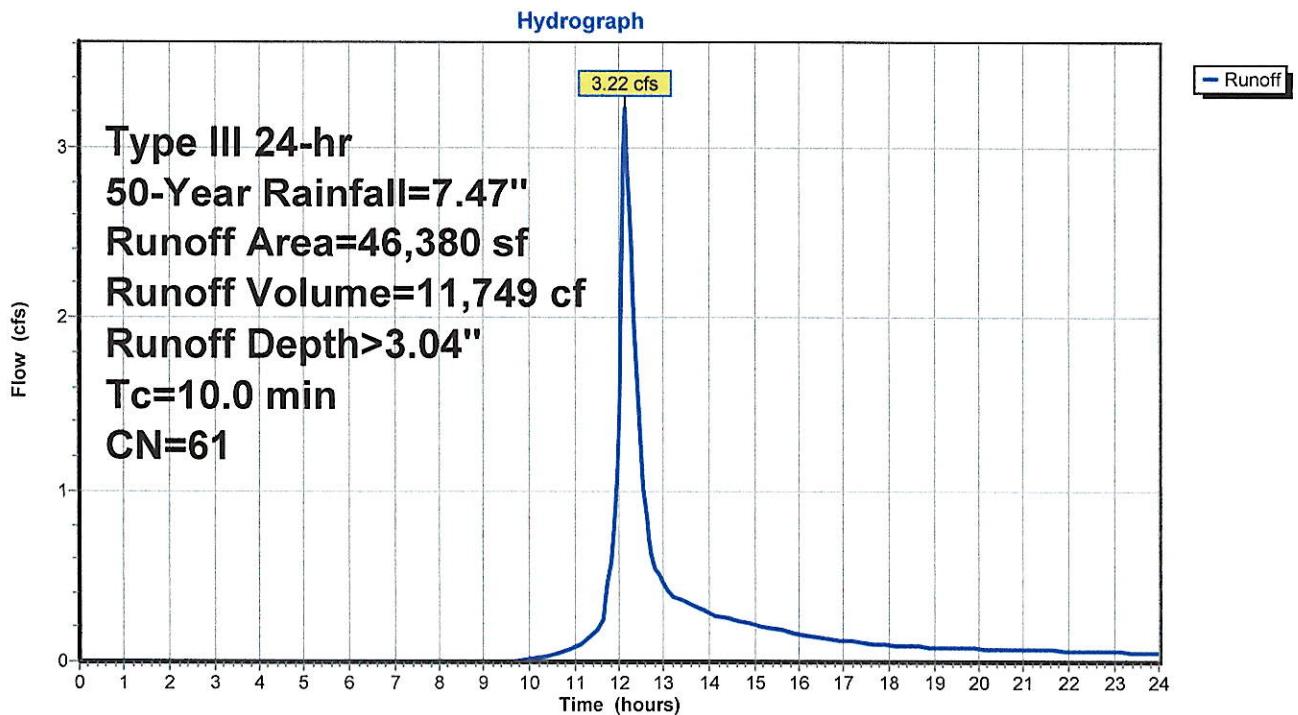
Runoff = 3.22 cfs @ 12.15 hrs, Volume= 11,749 cf, Depth> 3.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 50-Year Rainfall=7.47"

	Area (sf)	CN	Description
*	1,456	98	Dwelling
*	1,433	98	Driveway
*	2,264	98	Roadway
*	160	98	Shed
*	295	98	Garage
*	144	98	Deck
*	90	98	Walk
	5,555	61	>75% Grass cover, Good, HSG B
	34,983	55	Woods, Good, HSG B
	46,380	61	Weighted Average
	40,538		87.40% Pervious Area
	5,842		12.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 1S: Existing Conditions



Summary for Subcatchment 2S: Proposed Conditions

Runoff = 3.18 cfs @ 12.15 hrs, Volume= 11,580 cf, Depth> 3.04"

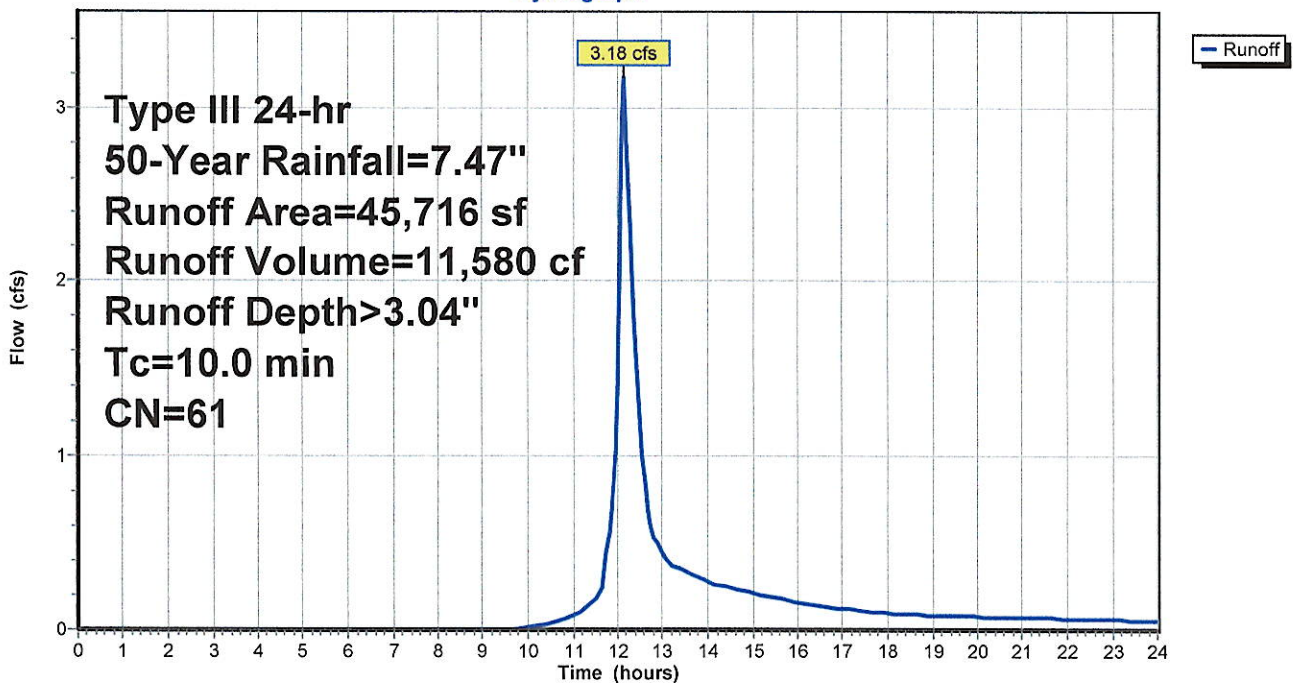
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 50-Year Rainfall=7.47"

	Area (sf)	CN	Description
*	1,456	98	Dwelling
*	2,000	98	Driveway
*	2,264	98	Roadway
*	144	98	Deck
*	90	98	Walk
	5,622	61	>75% Grass cover, Good, HSG B
	34,140	55	Woods, Good, HSG B
	45,716	61	Weighted Average
	39,762		86.98% Pervious Area
	5,954		13.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 2S: Proposed Conditions

Hydrograph



Summary for Subcatchment 3S: Prop. Runoff Into Retention

Runoff = 0.11 cfs @ 12.07 hrs, Volume= 400 cf, Depth> 7.23"

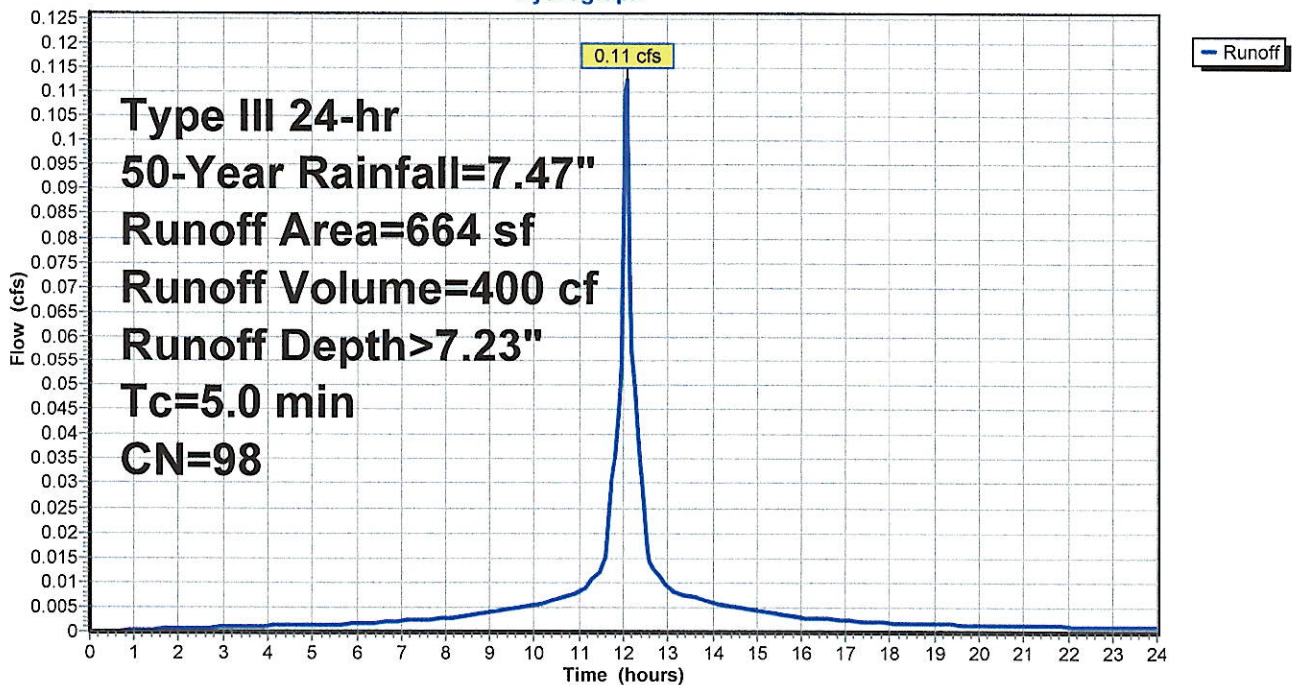
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 50-Year Rainfall=7.47"

Area (sf)	CN	Description
* 664	98	Building Addition
664		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 3S: Prop. Runoff Into Retention

Hydrograph



Summary for Pond 4P: On-Site Retention

Inflow Area = 664 sf, 100.00% Impervious, Inflow Depth > 7.23" for 50-Year event
 Inflow = 0.11 cfs @ 12.07 hrs, Volume= 400 cf
 Outflow = 0.01 cfs @ 11.25 hrs, Volume= 400 cf, Atten= 91%, Lag= 0.0 min
 Discarded = 0.01 cfs @ 11.25 hrs, Volume= 400 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Peak Elev= 367.18' @ 12.96 hrs Surf.Area= 104 sf Storage= 138 cf

Plug-Flow detention time= 98.2 min calculated for 399 cf (100% of inflow)
 Center-of-Mass det. time= 97.8 min (838.7 - 740.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	364.70'	82 cf	8.00'W x 13.00'L x 2.54'H Field A 264 cf Overall - 58 cf Embedded = 206 cf x 40.0% Voids
#2A	365.20'	58 cf	Cultec R-150XLHD x 2 Inside #1 Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap Row Length Adjustment= +0.75' x 2.65 sf x 2 rows
		141 cf	Total Available Storage

Storage Group A created with Chamber Wizard

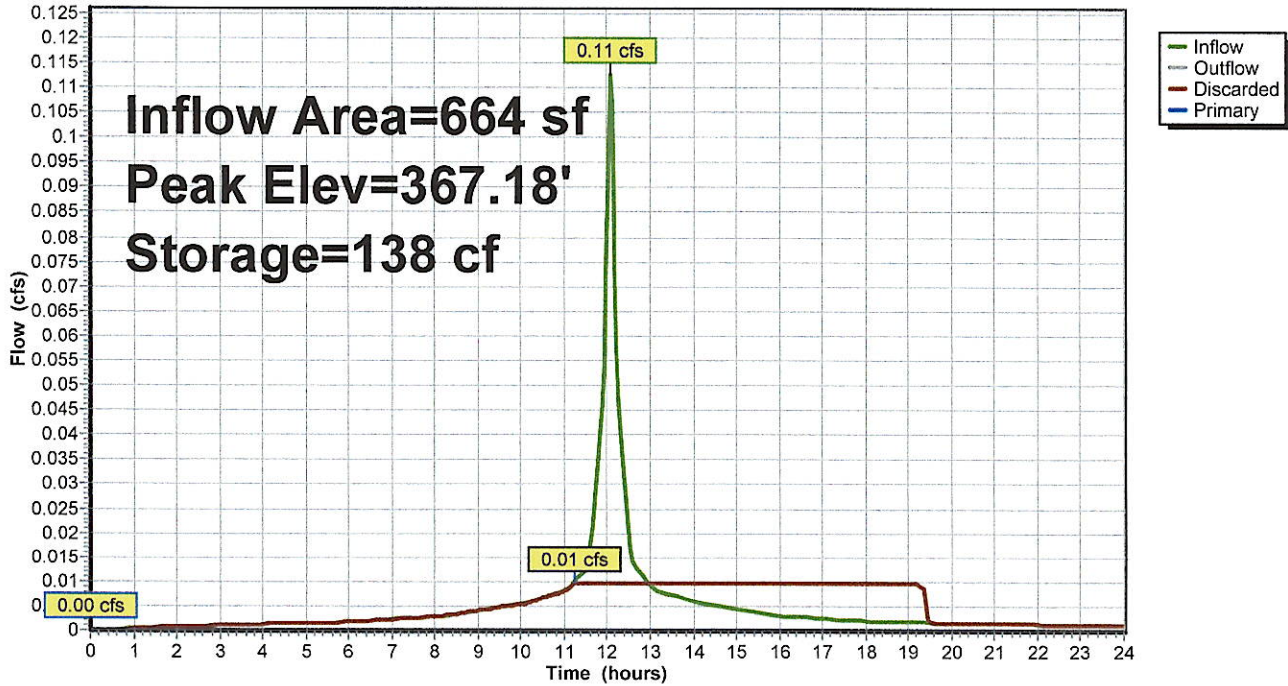
Device	Routing	Invert	Outlet Devices
#1	Discarded	364.70'	4.000 in/hr Exfiltration over Horizontal area
#2	Primary	367.24'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.01 cfs @ 11.25 hrs HW=364.73' (Free Discharge)
 ↑1=Exfiltration (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=364.70' (Free Discharge)
 ↑2=Orifice/Grate (Controls 0.00 cfs)

Pond 4P: On-Site Retention

Hydrograph



Stage-Area-Storage for Pond 4P: On-Site Retention

Elevation (feet)	Horizontal (sq-ft)	Storage (cubic-feet)
364.70	104	0
364.75	104	2
364.80	104	4
364.85	104	6
364.90	104	8
364.95	104	10
365.00	104	12
365.05	104	15
365.10	104	17
365.15	104	19
365.20	104	21
365.25	104	25
365.30	104	28
365.35	104	32
365.40	104	35
365.45	104	39
365.50	104	43
365.55	104	46
365.60	104	50
365.65	104	53
365.70	104	57
365.75	104	61
365.80	104	64
365.85	104	68
365.90	104	71
365.95	104	74
366.00	104	78
366.05	104	81
366.10	104	85
366.15	104	88
366.20	104	91
366.25	104	94
366.30	104	97
366.35	104	100
366.40	104	103
366.45	104	106
366.50	104	109
366.55	104	111
366.60	104	114
366.65	104	116
366.70	104	118
366.75	104	120
366.80	104	122
366.85	104	124
366.90	104	126
366.95	104	129
367.00	104	131
367.05	104	133
367.10	104	135
367.15	104	137
367.20	104	139

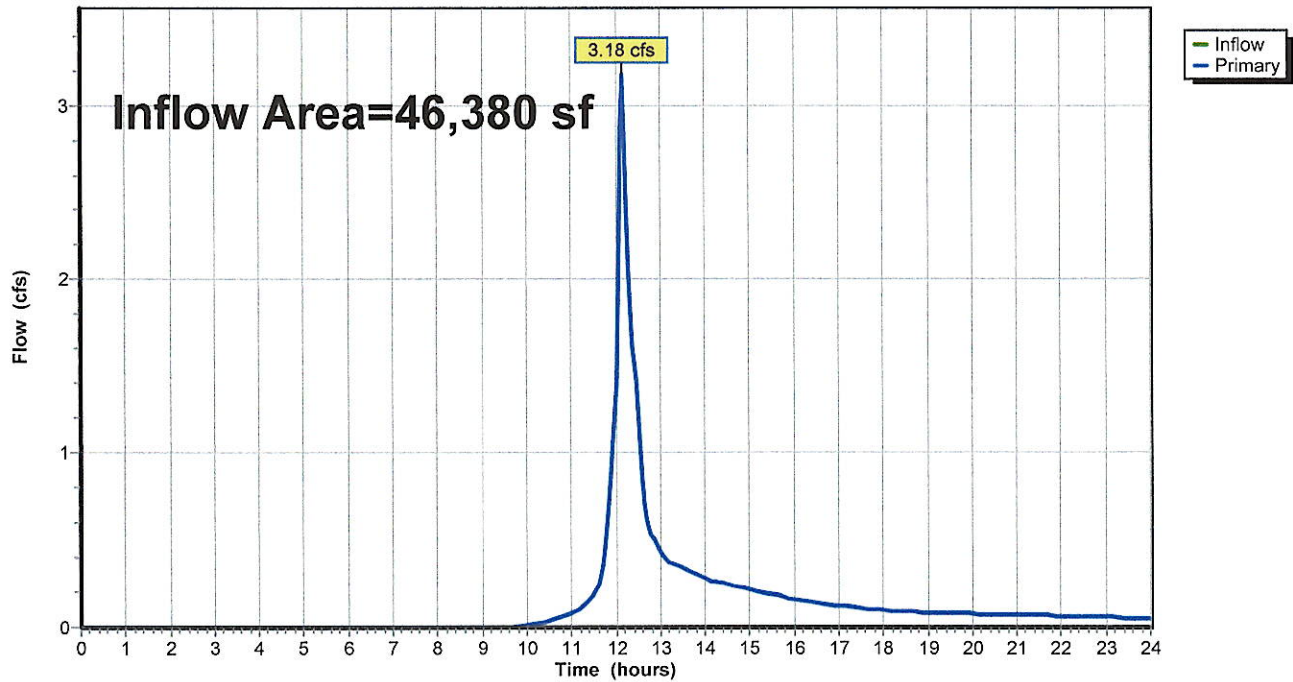
Summary for Link 5L: Total Site Runoff

Inflow Area = 46,380 sf, 14.27% Impervious, Inflow Depth > 3.00" for 50-Year event
Inflow = 3.18 cfs @ 12.15 hrs, Volume= 11,580 cf
Primary = 3.18 cfs @ 12.15 hrs, Volume= 11,580 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Link 5L: Total Site Runoff

Hydrograph





NOAA Atlas 14, Volume 10, Version 3
Location name: Weston, Connecticut, USA*
Latitude: 41.2206°, Longitude: -73.3642°
Elevation: 368 ft**
 * source: ESRI Maps
 ** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sandra Pavlovic, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Orian Wihite

NOAA, National Weather Service, Silver Spring, Maryland

[PF_tabular](#) | [PF_graphical](#) | [Maps & aerials](#)

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.365 (0.280-0.469)	0.425 (0.326-0.547)	0.523 (0.399-0.674)	0.604 (0.459-0.782)	0.716 (0.527-0.955)	0.801 (0.578-1.08)	0.888 (0.623-1.23)	0.981 (0.658-1.39)	1.11 (0.718-1.62)	1.21 (0.765-1.79)
10-min	0.518 (0.397-0.665)	0.602 (0.462-0.774)	0.740 (0.565-0.954)	0.855 (0.650-1.11)	1.01 (0.747-1.35)	1.14 (0.819-1.54)	1.26 (0.882-1.75)	1.39 (0.932-1.97)	1.57 (1.02-2.29)	1.71 (1.08-2.53)
15-min	0.609 (0.467-0.782)	0.709 (0.543-0.911)	0.872 (0.666-1.12)	1.01 (0.765-1.30)	1.19 (0.879-1.59)	1.34 (0.963-1.81)	1.48 (1.04-2.06)	1.64 (1.10-2.32)	1.85 (1.20-2.69)	2.01 (1.28-2.98)
30-min	0.847 (0.650-1.09)	0.986 (0.755-1.27)	1.21 (0.926-1.56)	1.40 (1.06-1.81)	1.66 (1.22-2.21)	1.86 (1.34-2.51)	2.06 (1.44-2.84)	2.26 (1.52-3.21)	2.53 (1.64-3.69)	2.74 (1.73-4.05)
60-min	1.08 (0.832-1.39)	1.26 (0.967-1.62)	1.55 (1.18-2.00)	1.79 (1.36-2.32)	2.12 (1.56-2.82)	2.38 (1.71-3.21)	2.63 (1.84-3.63)	2.89 (1.94-4.09)	3.22 (2.08-4.68)	3.46 (2.19-5.13)
2-hr	1.39 (1.08-1.78)	1.64 (1.26-2.10)	2.05 (1.57-2.62)	2.38 (1.82-3.06)	2.85 (2.11-3.78)	3.20 (2.32-4.31)	3.56 (2.51-4.92)	3.95 (2.66-5.56)	4.48 (2.91-6.48)	4.89 (3.10-7.19)
3-hr	1.60 (1.24-2.04)	1.90 (1.47-2.42)	2.39 (1.84-3.04)	2.79 (2.14-3.57)	3.35 (2.49-4.43)	3.77 (2.75-5.06)	4.21 (2.98-5.80)	4.68 (3.16-6.58)	5.36 (3.48-7.72)	5.89 (3.75-8.63)
6-hr	2.01 (1.57-2.54)	2.41 (1.87-3.04)	3.05 (2.37-3.87)	3.59 (2.77-4.56)	4.32 (3.24-5.69)	4.88 (3.58-6.52)	5.46 (3.90-7.52)	6.12 (4.14-8.54)	7.06 (4.61-10.1)	7.84 (5.00-11.4)
12-hr	2.48 (1.94-3.11)	2.98 (2.34-3.74)	3.81 (2.97-4.79)	4.49 (3.49-5.67)	5.43 (4.09-7.11)	6.14 (4.54-8.17)	6.88 (4.95-9.44)	7.74 (5.26-10.7)	9.00 (5.89-12.8)	10.0 (6.43-14.5)
24-hr	2.90 (2.29-3.61)	3.53 (2.79-4.40)	4.56 (3.59-5.71)	5.42 (4.24-6.80)	6.60 (5.01-8.60)	7.47 (5.56-9.91)	8.42 (6.11-11.5)	9.53 (6.50-13.1)	11.2 (7.36-15.9)	12.6 (8.11-18.1)
2-day	3.24 (2.58-4.01)	4.02 (3.19-4.97)	5.28 (4.18-6.56)	6.33 (4.98-7.89)	7.77 (5.94-10.1)	8.84 (6.63-11.7)	10.0 (7.33-13.7)	11.4 (7.82-15.7)	13.6 (8.99-19.2)	15.6 (10.0-22.2)
3-day	3.52 (2.81-4.34)	4.37 (3.48-5.39)	5.76 (4.57-7.12)	6.91 (5.46-8.58)	8.50 (6.52-11.0)	9.67 (7.28-12.7)	10.9 (8.05-15.0)	12.5 (8.59-17.1)	15.0 (9.89-21.0)	17.1 (11.0-24.3)
4-day	3.79 (3.03-4.66)	4.69 (3.74-5.76)	6.16 (4.90-7.59)	7.38 (5.84-9.13)	9.05 (6.96-11.7)	10.3 (7.76-13.5)	11.6 (8.58-15.8)	13.3 (9.14-18.1)	15.9 (10.5-22.2)	18.1 (11.7-25.6)
7-day	4.56 (3.66-5.57)	5.54 (4.45-6.78)	7.15 (5.72-8.76)	8.48 (6.75-10.4)	10.3 (7.96-13.2)	11.7 (8.83-15.2)	13.2 (9.68-17.7)	14.9 (10.3-20.2)	17.6 (11.6-24.4)	19.8 (12.8-27.9)
10-day	5.30 (4.28-6.46)	6.34 (5.11-7.73)	8.04 (6.45-9.82)	9.45 (7.54-11.6)	11.4 (8.79-14.5)	12.8 (9.71-16.6)	14.4 (10.6-19.2)	16.2 (11.2-21.8)	18.8 (12.5-26.0)	21.0 (13.6-29.5)
20-day	7.53 (6.12-9.11)	8.69 (7.05-10.5)	10.6 (8.56-12.8)	12.2 (9.77-14.8)	14.3 (11.1-18.0)	16.0 (12.1-20.4)	17.7 (12.9-23.1)	19.5 (13.6-26.0)	22.0 (14.7-30.2)	24.1 (15.6-33.5)
30-day	9.36 (7.63-11.3)	10.6 (8.63-12.8)	12.6 (10.3-15.3)	14.3 (11.6-17.4)	16.7 (12.9-20.8)	18.4 (14.0-23.3)	20.2 (14.8-26.2)	22.1 (15.4-29.4)	24.6 (16.4-33.5)	26.5 (17.2-36.7)
45-day	11.6 (9.49-13.9)	12.9 (10.6-15.5)	15.1 (12.3-18.2)	17.0 (13.7-20.5)	19.5 (15.2-24.1)	21.4 (16.3-26.9)	23.3 (17.1-30.0)	25.2 (17.7-33.4)	27.7 (18.6-37.6)	29.4 (19.2-40.7)
60-day	13.5 (11.0-16.1)	14.9 (12.2-17.8)	17.2 (14.0-20.6)	19.1 (15.5-23.0)	21.8 (17.0-26.9)	23.9 (18.2-29.8)	25.9 (18.9-33.1)	27.8 (19.5-36.6)	30.2 (20.3-40.9)	32.0 (20.9-44.1)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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PF graphical



NOAA Atlas 14, Volume 10, Version 3
Location name: Weston, Connecticut, USA*
Latitude: 41.2206°, Longitude: -73.3642°
Elevation: 368 ft**
 * source: ESRI Maps
 ** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sandra Pavlovic, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Orlan Wilhite

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aeriels](#)

PF tabular

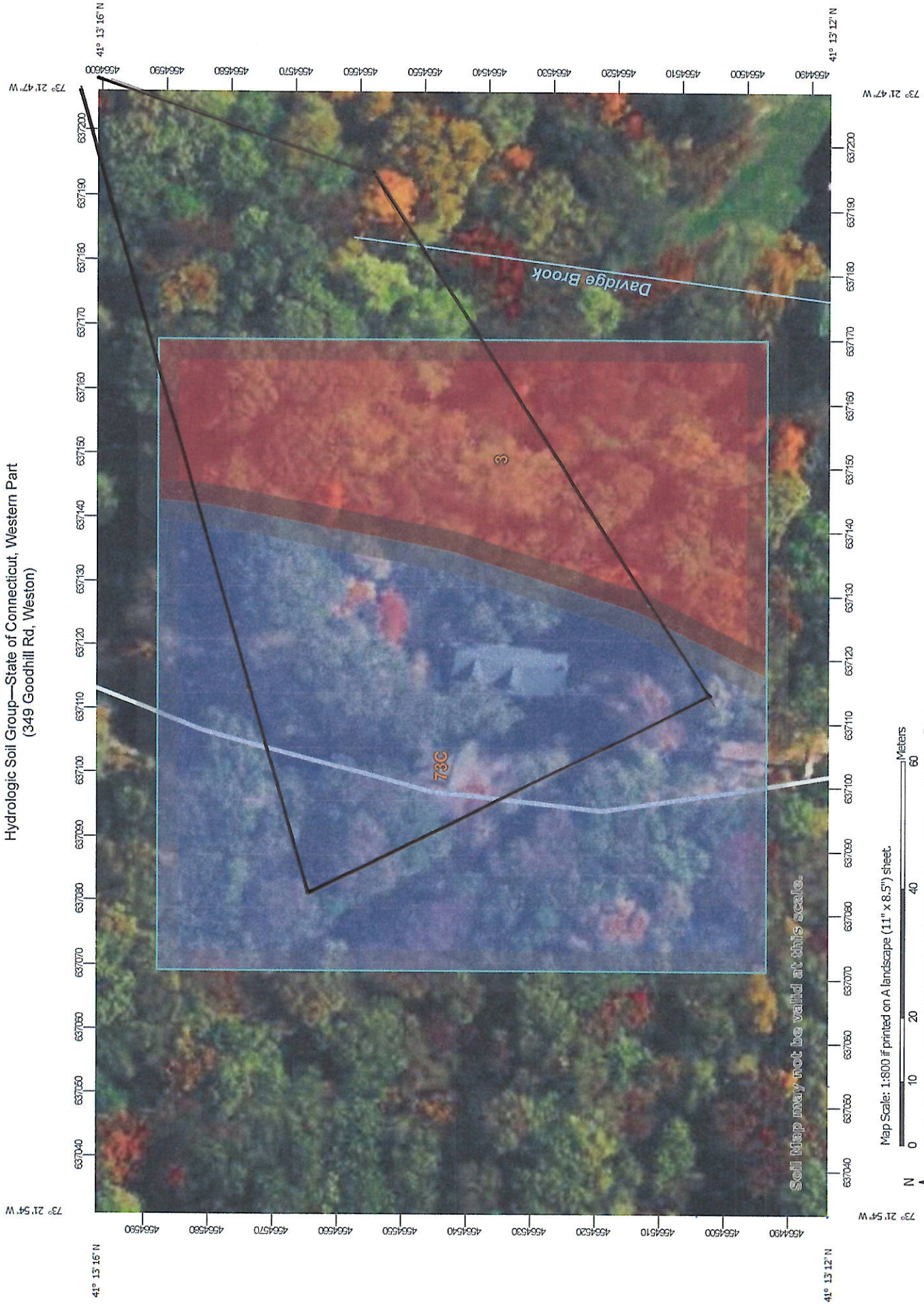
PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.365 (0.280-0.469)	0.425 (0.326-0.547)	0.523 (0.399-0.674)	0.604 (0.459-0.782)	0.716 (0.527-0.955)	0.801 (0.578-1.08)	0.888 (0.623-1.23)	0.981 (0.658-1.39)	1.11 (0.718-1.62)	1.21 (0.765-1.79)
10-min	0.518 (0.397-0.665)	0.602 (0.462-0.774)	0.740 (0.565-0.954)	0.855 (0.650-1.11)	1.01 (0.747-1.35)	1.14 (0.819-1.54)	1.26 (0.882-1.75)	1.39 (0.932-1.97)	1.57 (1.02-2.29)	1.71 (1.08-2.53)
15-min	0.609 (0.467-0.782)	0.709 (0.543-0.911)	0.872 (0.666-1.12)	1.01 (0.765-1.30)	1.19 (0.879-1.59)	1.34 (0.963-1.81)	1.48 (1.04-2.06)	1.64 (1.10-2.32)	1.85 (1.20-2.69)	2.01 (1.28-2.98)
30-min	0.847 (0.650-1.09)	0.986 (0.755-1.27)	1.21 (0.926-1.56)	1.40 (1.06-1.81)	1.66 (1.22-2.21)	1.86 (1.34-2.51)	2.06 (1.44-2.84)	2.26 (1.52-3.21)	2.53 (1.64-3.69)	2.74 (1.73-4.05)
60-min	1.08 (0.832-1.39)	1.26 (0.967-1.62)	1.55 (1.18-2.00)	1.79 (1.36-2.32)	2.12 (1.56-2.82)	2.38 (1.71-3.21)	2.63 (1.84-3.63)	2.89 (1.94-4.09)	3.22 (2.08-4.68)	3.46 (2.19-5.13)
2-hr	1.39 (1.08-1.78)	1.64 (1.26-2.10)	2.05 (1.57-2.62)	2.38 (1.82-3.06)	2.85 (2.11-3.78)	3.20 (2.32-4.31)	3.56 (2.51-4.92)	3.95 (2.66-5.56)	4.48 (2.91-6.48)	4.89 (3.10-7.19)
3-hr	1.60 (1.24-2.04)	1.90 (1.47-2.42)	2.39 (1.84-3.04)	2.79 (2.14-3.57)	3.35 (2.49-4.43)	3.77 (2.75-5.06)	4.21 (2.98-5.80)	4.68 (3.16-6.58)	5.36 (3.48-7.72)	5.89 (3.75-8.63)
6-hr	2.01 (1.57-2.54)	2.41 (1.87-3.04)	3.05 (2.37-3.87)	3.59 (2.77-4.56)	4.32 (3.24-5.69)	4.88 (3.58-6.52)	5.46 (3.90-7.52)	6.12 (4.14-8.54)	7.06 (4.61-10.1)	7.84 (5.00-11.4)
12-hr	2.48 (1.94-3.11)	2.98 (2.34-3.74)	3.81 (2.97-4.79)	4.49 (3.49-5.67)	5.43 (4.09-7.11)	6.14 (4.54-8.17)	6.88 (4.95-9.44)	7.74 (5.26-10.7)	9.00 (5.89-12.8)	10.0 (6.43-14.5)
24-hr	2.90 (2.29-3.61)	3.53 (2.79-4.40)	4.56 (3.59-5.71)	5.42 (4.24-6.80)	6.60 (5.01-8.60)	7.47 (5.56-9.91)	8.42 (6.11-11.5)	9.53 (6.50-13.1)	11.2 (7.36-15.9)	12.6 (8.11-18.1)
2-day	3.24 (2.58-4.01)	4.02 (3.19-4.97)	5.28 (4.18-6.56)	6.33 (4.98-7.89)	7.77 (5.94-10.1)	8.84 (6.63-11.7)	10.0 (7.33-13.7)	11.4 (7.82-15.7)	13.6 (8.99-19.2)	15.6 (10.0-22.2)
3-day	3.52 (2.81-4.34)	4.37 (3.48-5.39)	5.76 (4.57-7.12)	6.91 (5.46-8.58)	8.50 (6.52-11.0)	9.67 (7.28-12.7)	10.9 (8.05-15.0)	12.5 (8.59-17.1)	15.0 (9.89-21.0)	17.1 (11.0-24.3)
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20-day	7.53 (6.12-9.11)	8.69 (7.05-10.5)	10.6 (8.56-12.8)	12.2 (9.77-14.8)	14.3 (11.1-18.0)	16.0 (12.1-20.4)	17.7 (12.9-23.1)	19.5 (13.6-26.0)	22.0 (14.7-30.2)	24.1 (15.6-33.5)
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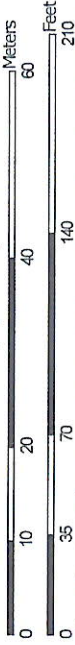
[Back to Top](#)

PF graphical

Hydrologic Soil Group—State of Connecticut, Western Part
(349 Goodhill Rd, Weston)

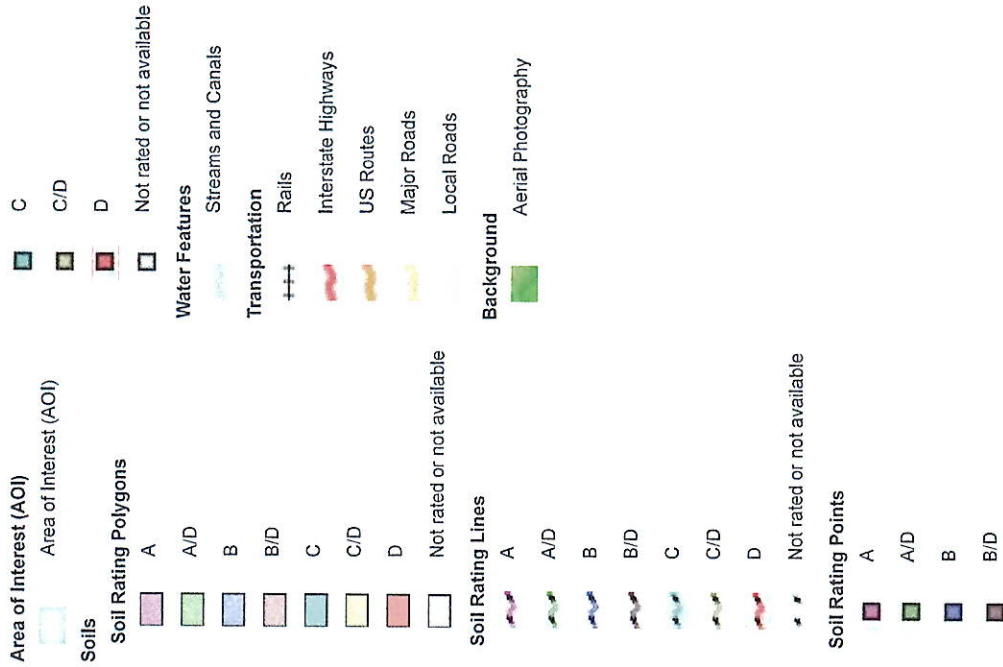


Map Scale: 1:800 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut, Western Part
 Survey Area Data: Version 1, Sep 15, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 21, 2022—Oct 27, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	D	0.8	36.0%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	B	1.5	64.0%
Totals for Area of Interest			2.3	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

GENERAL CONSTRUCTION NOTES:

- CONSTRUCTION AND STRUCTURES SHALL COMPLY WITH ALL MUNICIPAL OR STATE REQUIREMENTS. ALL WORK SHALL BE CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER. THE SUPERVISION OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE ENGINEER. THE ENGINEER'S SUPERVISION IS IN ACCORDANCE WITH THESE PLANS.
- THE ENGINEERING BUREAU OF THE DEPARTMENT OF PUBLIC WORKS AND THE ENGINEER OF RECORD SHALL BE NOTIFIED THREE DAYS PRIOR TO THE COMMENCEMENT OF EACH PHASE OF CONSTRUCTION.
- NO CERTIFICATE OF CONFORMANCE TO STANDARDS SHALL BE ISSUED BY THE DESIGN ENGINEER IF PROPER NOTICE IS NOT PROVIDED FOR INSPECTIONS OR IF INSPECTIONS ARE NOT MADE PRIOR TO BACKFILLING OF BELOW GROUND STRUCTURES AND APPEARANCES.
- SUBSURFACE STRUCTURES AND UTILITIES HAVE BEEN DETERMINED FROM EXISTING RECORDS AND ARE NOT TO BE DISTURBED. ALL UTILITIES TO BE EXCAVATED SHALL BE PROTECTED BY SHIELDING AND EXISTING UTILITIES THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES BY EXCAVATING TEST HOLES. IF THE CONTRACTOR DETERMINES THAT A CONFLICT EXISTS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER, WHO WILL MAKE THE NECESSARY ADJUSTMENTS.
- EXISTING SITE INFORMATION WAS TAKEN FROM A ZONING/LOCATION SURVEY DATED 10-10-10, REV. 6-25-22, BY WALTER H. SWIDD, LAND SURVEYOR LLC DATED 8-10-10, REV. 6-25-22.
- ALL HIGH-DENSITY POLYETHYLENE (HDPE) STORM DRAIN PIPE SHALL BE "SMOOTH INTERIOR" TYPE AND MEET THE REQUIREMENTS OF ASTM F405 & F667 AND ASHTO M252 & M234.
- THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455, PRIOR TO START OF CONSTRUCTION.
- TOTAL SITE AREA = 66,090 SQ. FT. ~ 1,5172 AC.
- THE PROPERTY IS SERVED BY A PRIVATE SEWAGE DISPOSAL SYSTEM AND PRIVATE WELL.
- PROPERTY IS SHOWN ON ASSESSORS MAP 20, BLOCK 2, TAX LOT 47.
- LOCATIONS OF CRITICAL UTILITIES SHALL BE VERIFIED IN THE FIELD, BY THE CONTRACTOR, AT THE START OF CONSTRUCTION.
- VERTICAL DATUM = NAVD, 88 (TOWN OF WESTON GIS MAPS) (CONTOURS SHOWN AT 2 FOOT INTERVALS)

SEDIMENTATION AND EROSION CONTROL NOTES

- LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. PERMANENT STABILIZATION SHALL BE SCHEDULED AS SOON AS FINAL GRASSES ARE ESTABLISHED.
- ALL DISTURBED AREAS SHALL BE FINE GRADED AND SEEDDED WITH AN APPROVED SEED MIXTURE. COVER NEWLY SEEDD AREAS WITH MULCH HAY OR SALT HAY.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE 2002 CONNECTICUT "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" HANDBOOK.
- ALL CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. CHECK AFTER EACH STORM EVENT.
- ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF REQUIRED BY TOWN AUTHORITIES.
- SEDIMENT DEPOSITS REMOVED FROM FILTER BARRIERS SHALL BE PLACED IN FILL AREAS OR SPREAD WHERE THERE IS PROPOSED VEGETATIVE COVER. ANY SEDIMENT DEPOSITS REMAINING AFTER THE FILTER BARRIER IS REMOVED SHALL BE FINE GRADED AND PLANNED ACCORDING TO PLAN.
- THE OWNER IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND MONITORING AND MAINTAINING THE CONTROL MEASURES. THE CONSERVATION COMMISSION OF ANY TRANSFER OF THIS RESPONSIBILITY AND CONVERTING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED TO A NEW OWNER.

(2) CULTEC R-150XLHD BOT. 364.7 (STONES) BOT. 365.2 (UNITS) W/ H.L. OVERFLOW

SILT FENCE/ LIMIT OF DISTURBANCE

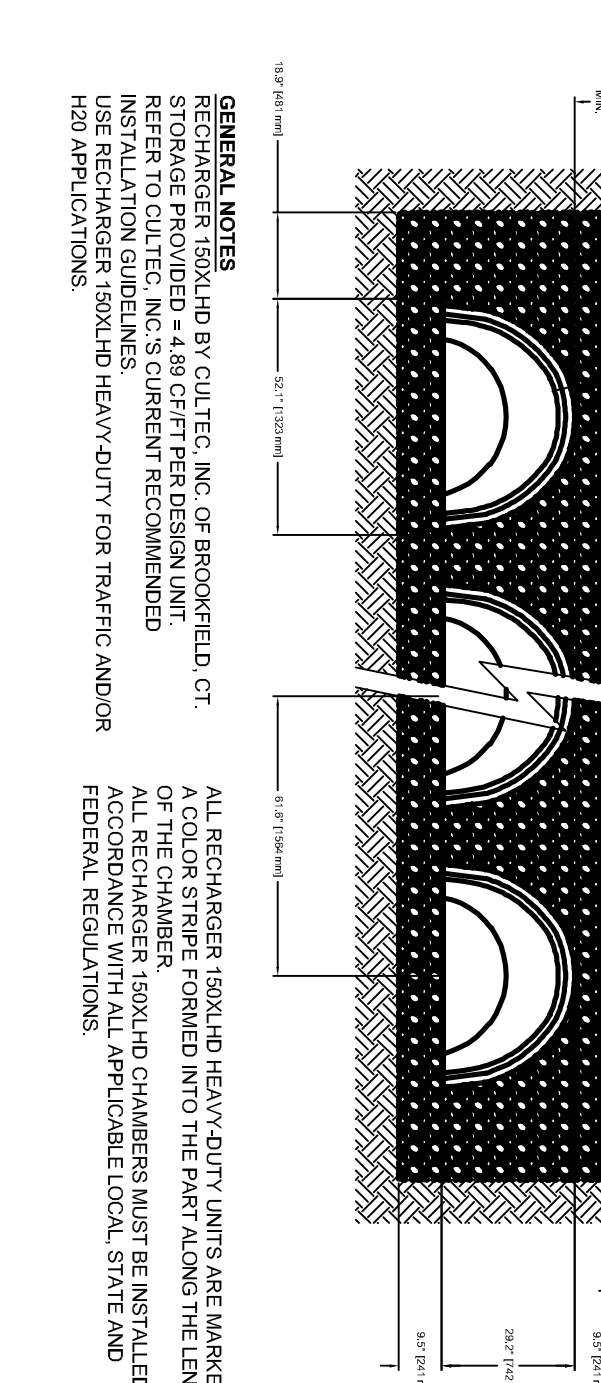
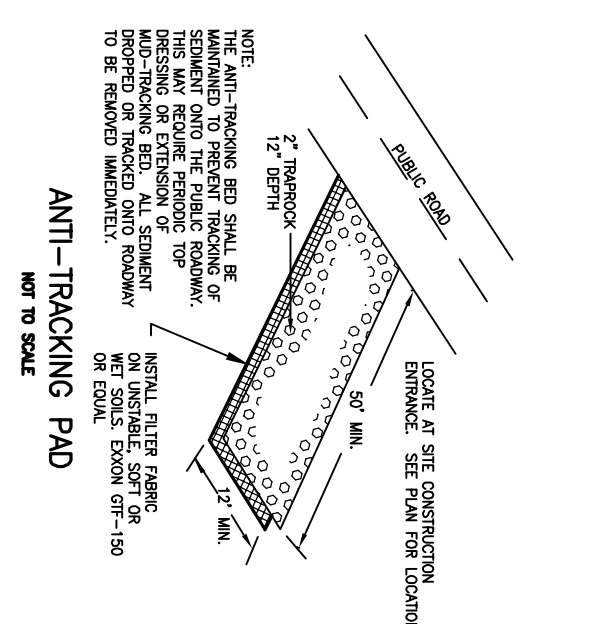
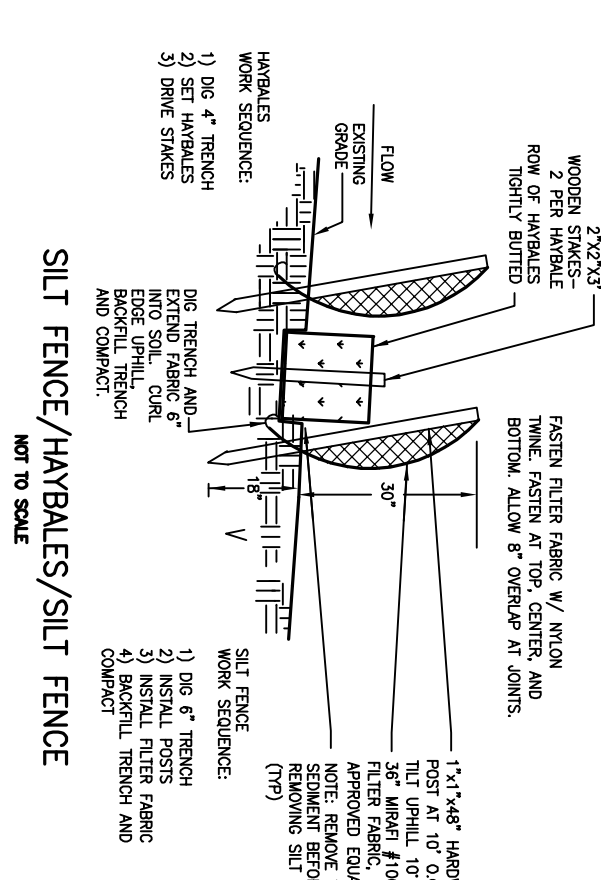
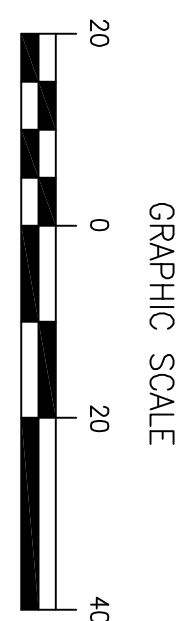
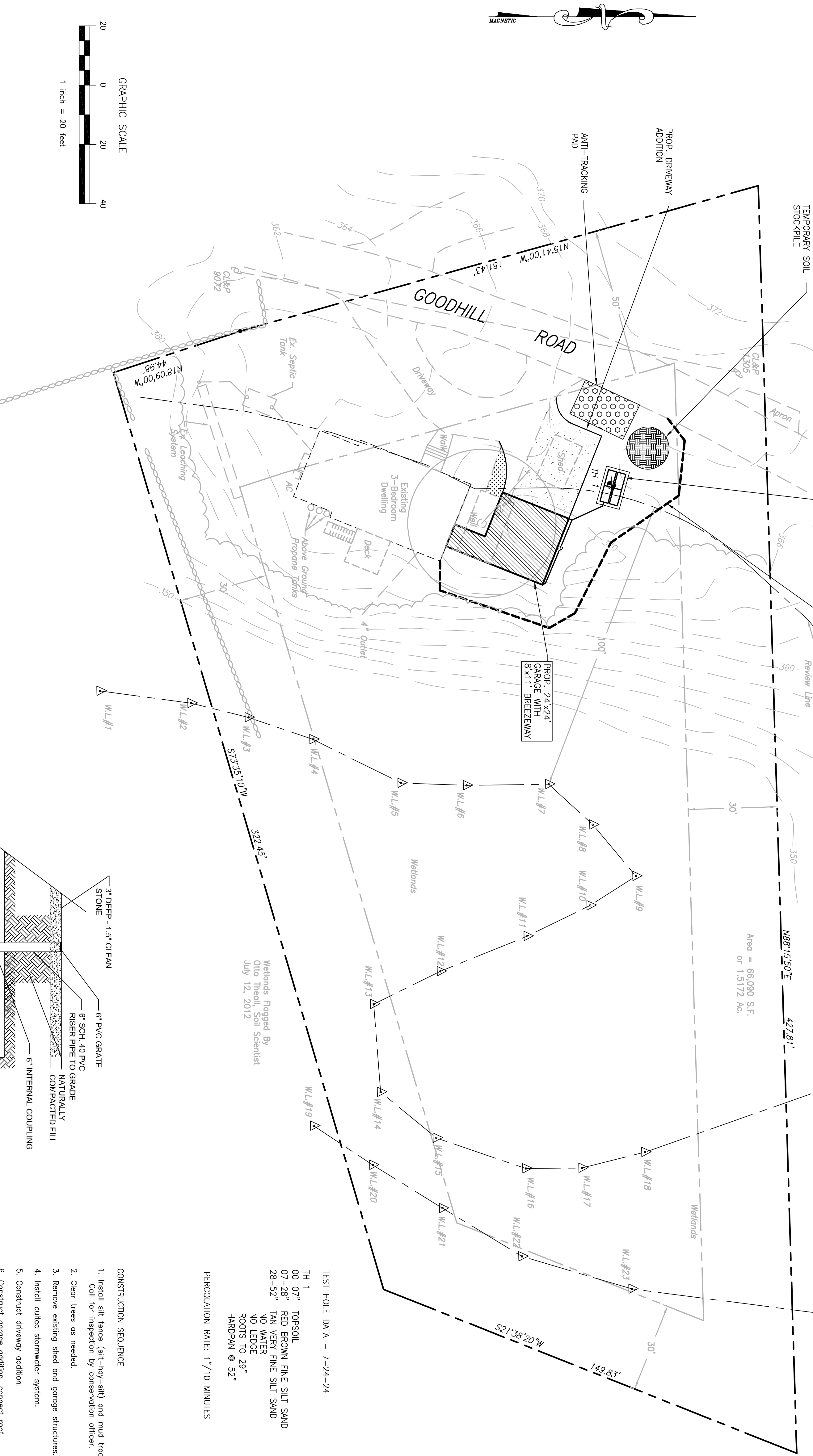
Area = 66,090 S.F. or 1,5172 Ac.

TEST HOLE DATA - 7-24-24

TH 1 TOPSOIL 00-07" RED BROWN FINE SILT SAND 07-28" TAN VERY FINE SILT SAND 28-52" NO WATER NO LEVEE ROOTS TO 28" HARDPAN @ 52"

PERCOLATION RATE: 1" / 10 MINUTES

Wells are Flagged By Otto Theall, Soil Scientist July 12, 2012

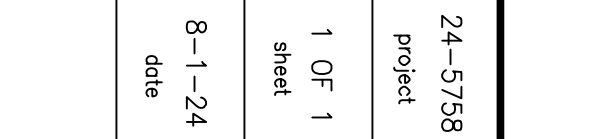


HARVEY H. GROVES & BARBARA GROVES
WESTON, CONNECTICUT

SITE IMPROVEMENT PLAN

24-5758
project
1 OF 1
sheet
8-1-24
date

GRIMMAN ENGINEERING L.L.C.
CONSULTING CIVIL ENGINEERS
20 KNIGHT STREET, NORWALK, CONNECTICUT 06851
PH: (203) 853-3833 FAX: (203) 286-5057





Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete this form in accordance with the instructions on pages 2 and 3 and mail to:
DEEP Land & Water Resources Division, Inland Wetlands Management Program, 79 Elm Street, 3rd Floor, Hartford, CT 06106
Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.

PART I: Must Be Completed By The Inland Wetlands Agency

- DATE ACTION WAS TAKEN: year: _____ month: _____
- ACTION TAKEN (see instructions - one code only): _____
- WAS A PUBLIC HEARING HELD (check one)? yes no
- NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:
(print name) _____ (signature) _____

PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

- TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Weston
does this project cross municipal boundaries (check one)? yes no
if yes, list the other town(s) in which the activity is occurring (print name(s)): _____
- LOCATION (see instructions for information): USGS quad name: Westport or number: _____
subregional drainage basin number: 7200
- NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Harvey H. Groves & Barbara Groves
- NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): 349 Goodhill Road, Weston, CT
briefly describe the action/project/activity (check and print information): temporary permanent description: construct 2-car garage, driveway extension, stormwater retention
- ACTIVITY PURPOSE CODE (see instructions - one code only): A
- ACTIVITY TYPE CODE(S) (see instructions for codes): 2, 9, 10, 12
- WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):
wetlands: 0 acres open water body: 0 acres stream: 0 linear feet
- UPLAND AREA ALTERED (must provide acres): 0.05 acres
- AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): 0 acres

DATE RECEIVED:

PART III: To Be Completed By The DEEP

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO



Incorporated 1787

Conservation Commission

INLAND WETLANDS AND WATERCOURSES APPLICATION

This Application is for a five-year permit to conduct a regulated activity or activities pursuant to the Inland Wetlands and Watercourses Regulations of the Town of Weston ("The Regulations")

PROPERTY ADDRESS: 349 Goodhill Road

Assessor's Map # 20 Block # 2 Lot # 47

PROJECT DESCRIPTION (general purpose) Proposed garage and breezeway construction

Total Acres 1.5172 Total Acres of Wetlands and Watercourses 0.0663

Acreage of Wetlands and Watercourses Altered 0 Upland Area Altered 2000 SF

Acres Linear Feet of Stream Alteration 0 Total Acres Proposed Open Space 0

OWNER(S) OF RECORD: (Please list all owners, attach extra sheet if necessary)

Name: Harvey H. Groves & Barbara Groves Phone: 203-962-4499

Address: 349 Goodhill Road, Weston, CT 06883

Email: bgroves20@gmail.com

APPLICANT/AUTHORIZED AGENT:

Name: Dean Martin, P.E. Phone: 203-853-3833

Address: 20 Knight Street, Norwalk, CT 06853

Email: dean@grummanengineering.com

CONSULTANTS: (Please provide, if applicable)

Engineer: Dean Martin, P.E. Phone: 203-853-3833

Address: 20 Knight St, Norwalk, CT Email: dean@grummanengineering.com

Soil Scientist: Otto Theall Phone: 203-845-0278

Address: Norwalk, CT Email: Soilwetlandsci@aol.com

Legal Counsel: _____ Phone: _____

Address: _____ Email: _____

Surveyor: Walter H. Skidd Phone: 203-373-0401

Address: Fairfield, CT Email: ws Kidd@optonline.net

PROPERTY INFORMATION

Property Address: 349 Goodhill Road, Weston

Existing Conditions (Describe existing property and structures): Single-family dwelling w/ paved driveway, shed & detached garage

Provide a detailed description and purpose of proposed activity (attach sheet with additional information if needed): Construct new 2-car garage, expand driveway for access.

Is this property within a subdivision (circle): Yes or No

Square feet of proposed impervious surfaces (roads, buildings, parking, etc.): _____

Subject property to be affected by proposed activity contains:

- wetlands soils
- bog
- swamp
- lake or pond
- floodplain
- stream or river
- marsh
- other upland review area.

The proposed activity will involve the following within wetlands, watercourse, and/or review area:

- Alteration
- Construction
- Pollution
- Discharge to
- Discharge from
- Bridge or Culvert
- Removal of
- Deposition of
- Other _____
- Materials
- Materials

Amount, type, and location of materials to be removed, deposited, or stockpiled: _____

Description, work sequence, and duration of activities:
remove shed, detached garage, construct new garage w/ breezeway, expand driveway, install stormwater retention system.

Describe alternatives considered and why the proposal described herein was chosen: _____

Does the proposed activity involve the installation and/or repair of an existing septic system(s) (circle): Yes or No

The Westport/Weston Health District Approval: 12-18-23

ADJOINING MUNICIPALITIES AND NOTICE:

If any of the situations below apply, the applicant is required to give written notice of his/her application to the Inland Wetlands Agency of the adjoining municipality, on the same day that he/she submits this application. Notification must be sent by Certified Mail with Return Receipt Requested.

The property is located within 500 feet of any town boundary line;

A significant portion of the traffic to the completed project will use streets within the adjoining municipality to enter or exit the site;

A portion of the water drainage from the project site will flow through and significantly impact the sewage system or drainage systems within the adjoining municipality; or

Water runoff from the improved site will impact streets or other municipal or private property within the adjoining municipality

AQUARION WATER COMPANY

Pursuant to Section 8.4 of the Weston regulations, the Aquarion Water Company must be notified of any regulated activity proposed within its watersheds. Maps showing approximate watershed boundaries are available at the office of the Commission. If the project site lies within these boundaries, send notice, site plan, and grading and erosion control plan via certified mail, return receipt requested, within seven (7) days of submitting application to the Commission, to:

George S. Logan, Director – Environmental Management
Aquarion Water Company
714 Black Rock Turnpike
Easton, CT 06612

The Commissioner of the Connecticut Department of Public Health must also be notified in the same manner in a format prescribed by that commissioner.

The undersigned, as owner(s) of the property, hereby consents to necessary and proper inspections of the above mentioned property by Commissioners and agents of the Conservation Commission, Town of Weston, at reasonable times, both before and after a final decision has been issued by the Commission.

The undersigned hereby acknowledges to have read the "Application Requirements and Procedures" in completing this application.

The undersigned hereby certifies that the information provided in this application, including its supporting documentation is true and he/she is aware of the penalties provided in Section 22a-376 of the Connecticut General Statutes for knowingly providing false or misleading information.

Barbara Groves

Signature of Owner(s) of Record

August 6, 2024

Date

Dean E. Martin, P.E.

Signature of Authorized Agent

8-5-24

Date

FOR OFFICE USE ONLY

Administrative Approval

Initials

Date

August 5, 2024

Weston Conservation Commission
Town Hall Annex
24 School Road
Weston, CT 06883

Re: 349 Goodhill Road
Weston

As the owner at the above referenced property, I hereby authorize Dean Martin, P.E., Grumman Engineering, to act on my behalf as Agent to submit application and plans for permitting for a proposed pool.

Thank you