October 16, 2024

Weston Zoning Board of Appeals Weston Planning & Zoning Commission Weston Conservation Commission Weston Department of Public Works 56 Norfield Rd, Town Hall Weston, CT 06883

Aspetuck Health District 180 Bayberry Lane Westport, CT 06880

Subject: Applications for 126 Steephill Road, Weston

To whom it may concern,

I hereby authorize LANDTECH to act as our agents in matters pertaining to the submission of applications and securing permits for my properties at 126 Steephill Road in Weston, CT.

Very Truly Yours,

Julie and James Migliaccio

Julie and James Migliaccio



### **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: 126 Steephill Road	
Assessor's Map # 19 Block # 1	Lot # <u>28</u>
PROJECT DESCRIPTION (general purpose) Pro	posed pool and deck.
Total Acres2 Total Acres of We	etlands and Watercourses0.971 acres
Acreage of Wetlands and Watercourses Altered	d0 Upland Area Altered0.06 acres
	 Total Acres Proposed Open Space
OWNER(S) OF RECORD: (Please list all owners, a	
Name: Julie and James Migliaccio	Phone:
Address:126 Steephill Road, Weston CT	
jmigs63@gmail.com	
APPLICANT/AUTHORIZED AGENT:	
Name: Peter Romano	Phone:
Address:518 Riverside Avenue, Westport CT	06880
Email:promano@landtechconsult.com	
CONSULTANTS: (Please provide, if applicable)	
Engineer:	Phone:
Address: 518 Riverside Avenue, Westport CT 068	
Soil Scientist: Chris Allen	Phone:

Address: 518 Riverside Ave.	callen@landtechconsult.com Email:
Legal Counsel:	Phone:
Address:	Email:
Surveyor:	Phone:
Address: 518 Riverside Avenue	promano@landtechconsult.com
PROPERTY INFORMATION	
Property Address:126 Steephil	Road, Weston CT
Existing Conditions (Describe existing presidence).	roperty and structures):Existing single family
Provide a detailed description and pu	rpose of proposed activity (attach sheet with additional
information if needed): Propos	ed 10' x 20' pool and deck.
Is this property within a subdivision (cir Square feet of proposed impervious s	cle): Yes or <mark>No</mark> orfaces (roads, buildings, parking, etc.):
Subject property to be affected by positive wetlands soils  swamp floodplain marsh	oposed activity contains:
	ollowing within wetlands, watercourse, and/or review
<ul><li>Discharge to</li><li>Removal of</li><li>Materials</li></ul>	Construction
Amount, type, and location of materi 40 CY Fill, 30 CY	als to be removed, deposited, or stockpiled: Cut
Description, work sequence, and dura See attached narrative	tion of activities:
Describe alternatives considered and	why the proposal described herein was chosen:
Does the proposed activity involve th (circle): Yes or No	e installation and/or repair of an existing septic system(s)
The Westport/Weston Health District A	oproval: Yes

### **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 Statues for knowingly providing false or misleading information.

Attached			
Signature of Owner(s) of Recor	d	Date	
mn		11.13.2024	
Signature of Authorized Agent		Date	
	FOR OFFICE US	SE ONLY	
Administrative Approval	 Initials	Date	

# TOWN OF WESTON INLAND WETLANDS AND WATERCOURSE AREA APPLICATION REQUIREMENTS AND PROCEDURES

In addition to the application form for permission to conduct a regulated activity within inland wetlands and watercourse area, applicants must submit the following information in accordance to scheduled submittal date. An incomplete application may result in a delay:

- 1. A signed letter of permission from the Owner of Record.
- 2. Fee in accordance to the Conservation Commission fee schedule.
- 3. Nine (9) collated copies of the following:
  - □ Completed Inland Wetland and Watercourses Application
  - □ Two (2) 24" x 36" Original and Seven (7) 24" x 36" Copies of the following
    - A-2 Survey map and/or site plan of at least 1" = 40'
      - Title of project
      - Name, signature, and Connecticut license professional seal(s).
      - Date map prepared, date of most recent revision, and brief description of revision.
      - <u>Show locations of wetlands boundary, watercourses</u> (with direction of flow, water depth, and bottom characteristics) and other pertinent features and structures such as rock ledges, stonewalls, utility lines.
      - Show location and extent of proposed activities including material and soil stockpiles, erosion and sedimentation controls, ingress and egress patterns.
      - Indicate in acres or square feet of wetlands/watercourse disturbance.
      - North arrow, Scale Bar, Legend, Property lines.
      - Edge of 100' Upland Review Area.
      - Existing and Proposed <u>Conditions</u>, <u>Grading</u> and <u>Drainage Location</u>
      - Double Silt fence detail (slit fence/hay bale/slit fence) configuration.
      - Construction Sequence.
      - Contour lines 2 foot intervals.
      - Topographic (This area may be enlarged for certain activities on/or above steep slopes or other physical conditions that may adversely impact wetlands).
  - Drainage report prepared by a professional engineer registered in the State of Connecticut.
- 4. One electronic copy of all submitted materials emailed to conservationplanner@westonct.gov
- 5. Westport/ Weston Health District Approval, including a copy of the septic plan or B100 plan stamped and signed by the Health Department (if applicable).
- 6. If a Soil Scientist is involved, his/her name, written report, and field sketch.
- 7. List of names and addresses of adjacent property owners and abutters, include addressed and stamped business envelopes.
- 8. Proof of certified mailings to Aquarion Water Company and adjoining municipalities, if applicable.
- 9. All deeds, conservation easements, or restrictions associated with the property.
- 10. Location of the 100 year flood line, if applicable.
- 11. Tree removal plan of all trees greater than 12" in diameter.
- 12. Diagrams of alternatives considered.
- 13. Completed Part II of the DEEP Statewide Inland Wetlands & Watercourses Activity Reporting Form.



### Town of Weston, CT **Property Listing Report**

Map Block Lot

Developer Map 1261

19 1 28

Unique Identifier R02299

Developer Lot **D** 

Building #

**Property Information** 

Property Location	126 STEEPHILL ROAD		
	126 STEEPHILL RD		
Mailing Address	WESTON CT 06883		
Land Use	Residential		
Zoning Code	R-2AC		
Neighborhood	3-5		

Owner	MIGLIACCIO JAMES V + JULIE E
Co-Owner	
Book / Page	0228/0625
Land Class	Residential
Census Tract	83430
Acreage	2

**Valuation Summary** 

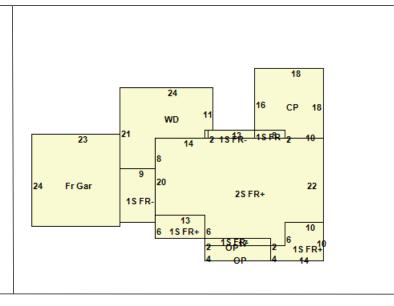
(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	750800	525560
Outbuildings	5000	3500
Land	270000	189000
Total	1025800	718060

### Building Area Info - sq/ft

Living	2464
Basement	1228
Finished Basement	720
Fin Bsmt Quality	Average Quality





### **Primary Construction Details**

Year Built	1955
Building Desc.	Residential
Building Style	Colonial
Stories	2
Exterior Walls	Wood Shingles
Exterior Walls 2	
Interior Walls	Drywall
Interior Walls 2	
Interior Floors 1	Hardwood
Interior Floors 2	

Heating Fuel	Oil
Heating Type	Hot Water
AC Type	Central
Bedrooms	4
Full Bathrooms	3
Half Bathrooms	2
Extra Fixtures	0
Total Rooms	8
Bath Style	NA
Kitchen Style	Modern
Occupancy	1

Building Use	Single Family
<b>Building Condition</b>	Very Good
Frame Type	Wood Frame
Fireplaces	2
Bsmt Gar	0
Bsmt Access	Walkout
Building Grade	0
Roof Style	Gable
Roof Cover	Asphalt
Report Created On	11/13/2024



### Town of Weston, CT

Map Block Lot 19 1 28

Unique Identifier R02299

Developer Lot **D** 

Building #

**Property Listing Report** 

Developer Map 1261

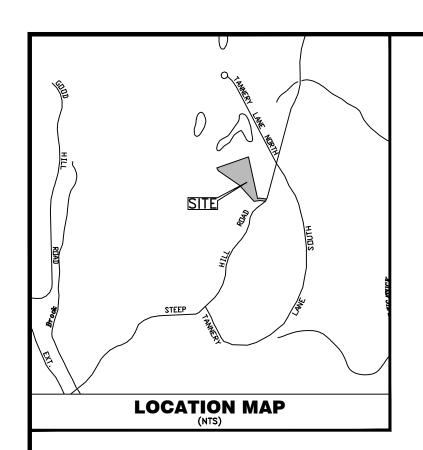
Type	Description	Area (sq ft)	Condition	Year Built
Other	Generator	1	Average	2018
Outside	Pergola	324	Average	2008
Outside	Fireplace	0	Average	1955

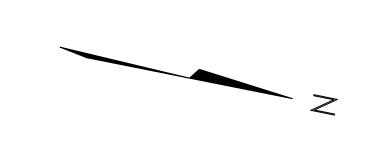
### **Attached Extra Features**

Type	Description	Area (sq ft)	Condition	Year Built
Garage	Frame	552	Very Good	1955
Patio	Concrete Patio	308	Very Good	1955
Patio	Concrete Patio	16	Very Good	1955
Deck	Wood	382	Very Good	1955
Porch	Open	34	Very Good	2005
Porch	Open	68	Very Good	2005

### **Sales History**

Owner of Record	Book/ Page	Sale Date	Sale Price
MIGLIACCIO JAMES V + JULIE E	0228_0625	5/2/1995	0
MARENAKOS, JOHN P. & RUTH S.	0225_0700	11/15/1994	0
MARENKOS, JOHN P. & RUTH S.	0182_0343	6/12/1990	0
CREWE, DANIEL N.	0170_0498	9/15/1988	0





ZONING DATA								
ZONIN	ZONING DISTRICT: 2 ACRE RESIDENTIAL ZONE R-2A							
DIMENSION	AL	REQUIRED/ALLOWED	<b>EXISTING</b>					
LOT AREA		2 ACRE	2.007 ACRES					
LOT RECTANGLE		170' X 200'	170' X 200'					
LOT FRONTAGE	LOT FRONTAGE		26.36'					
BUILDING COVERAGE	MAX.	15.0%	3.4%					
	FRONT	50'	211'±					
YARDS	SIDE	30'	36.1'±					
	REAR	30'	211'±					
BUILDING HEIGHT	MAXIMUM	35'	EXISTING					

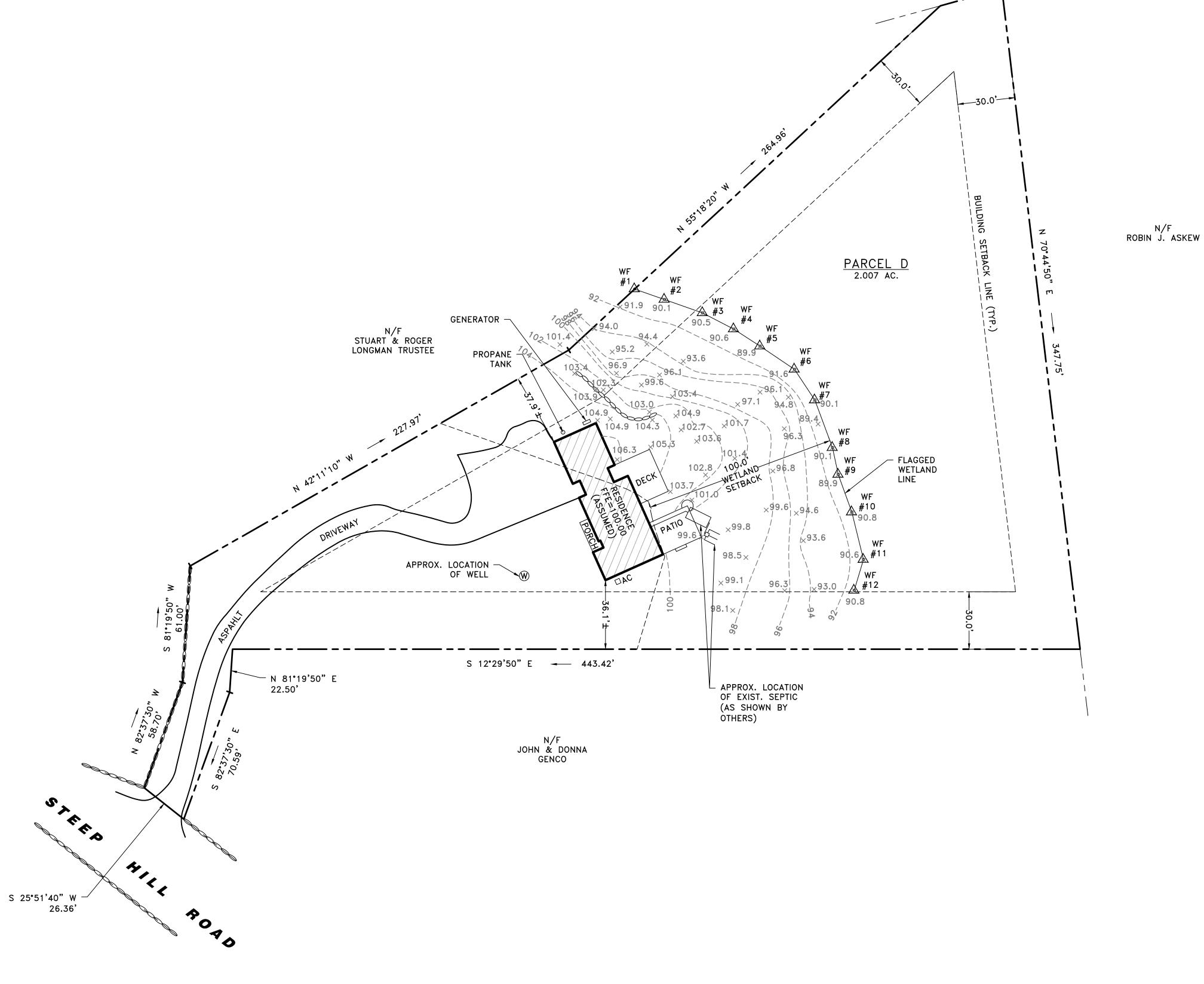
### PROPERTY INFORMATION:

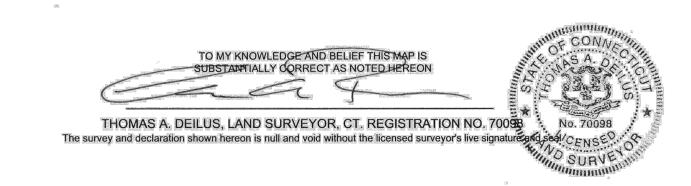
OWNER: JIM MIGLIACCIO
ADDRESS: 126 STEEP HILL ROAD
WESTON, CT.

LOT AREA: 2.007 A.C. ZONE: R-2A

### SURVEY NOTES:

- 1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THROUGH 20-300b-20, AND THE "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC., ON SEPTEMBER 26, 1996.
- 2. THE TYPE OF SURVEY PERFORMED IS A BUILDING LOCATION MAP, ZONING. THE MAIN PURPOSE OF THIS SURVEY IS TO SHOW THE INFORMATION NECESSARY TO ENABLE DETERMINATION OF COMPLIANCE OR NON-COMPLIANCE WITH THE APPLICABLE ZONING SETBACK REQUIREMENTS. AS SUCH, IT MAY BE NECESSARY TO DEPICT ONLY A PORTION OF THE PROPERTY. THE ONLY IMPROVEMENT THAT NEED TO BE SHOWN IS THE EXISTING OR PROPOSED BUILDING RELATING TO THE MATTER OF ZONING COMPLIANCE BEING ADDRESSED.
- 3. THE BOUNDARY DETERMINATION IS BASED UPON THE DEPENDENT RESURVEY METHOD.
- 4. THE SURVEY CONFORMS TO HORIZONTAL CLASS A-2 ACCURACY STANDARDS.
- 5. THIS SURVEY WAS PREPARED FOR A SPECIFIC PURPOSE. ANY USE OTHER THAN WHICH IT WAS ORIGINALLY INTENDED IS A MISUSE OF THIS INFORMATION AND RENDERS THE PREPARER'S DECLARATION NULL AND VOID.
- 6. UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS IF ANY ARE NOT SHOWN.
- 7. UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS SURVEY, WHICH BEARS THE SURVEYORS STAMP OF SEAL, RENDERS ANY DECLARATION SHOWN HEREON NULL AND VOID.
- 8. THIS DECLARATION SHOWN RUNS TO THE PERSON, OR PERSONS FOR WHOM THE SURVEY WAS PREPARED FOR THIS DECLARATION IS NOT TRANSFERABLE.
- 9. REFER TO MAP NO. 1261 IN WESTON LAND RECORDS.
- 10. TOPOGRAPHIC INFORMATION BASED UPON AN ASSUMED DATUM.
- 11. WETLANDS LINE FLAGGED BY XXXXXX, DATE.





N &	Z	ONING MAP OF PROPI		
W E	126 STEEP HILL ROAD  PREPARED BY:  SM  10/9/20		WESTON, CT.  DD NO.:	
S	REVIEW: THOMAS A. DEILUS	10/9/20	SHEET NO.: 1	
SC <i>F</i>	ALE: 1"=30'		JS - LAND SURVEYORS FLOOR, NORWALK, CT. 06851	

SHOWN ON THE PLANS.

LANDTECH

2. DATUM: ASSUMED THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UNDERGROUND PIPING, UTILITIES, AND OTHER FEATURES ARE TAKEN FROM EXISTING AS-BUILT MAPPING AND OTHER SOURCES OF INFORMATION AND ARE APPROXIMATE. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. IN ADDITION, THERE MAY BE OTHER UNDERGROUND PIPING, UTILITIES, AND OTHER FEATURES PRESENT THAT ARE NOT SHOWN. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE PRESENCE OF ANY OF THESE EXISTING ELEMENTS BY WHATEVER MEANS NECESSARY AND PROTECTING THESE ELEMENTS AS REQUIRED OR RELOCATING THEM

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALL "CALL BEFORE YOU DIG," 1-800-922-4455, THREE FULL WORKING DAYS PRIOR TO ANY EXCAVATION WORK ON THE PROPERTY.

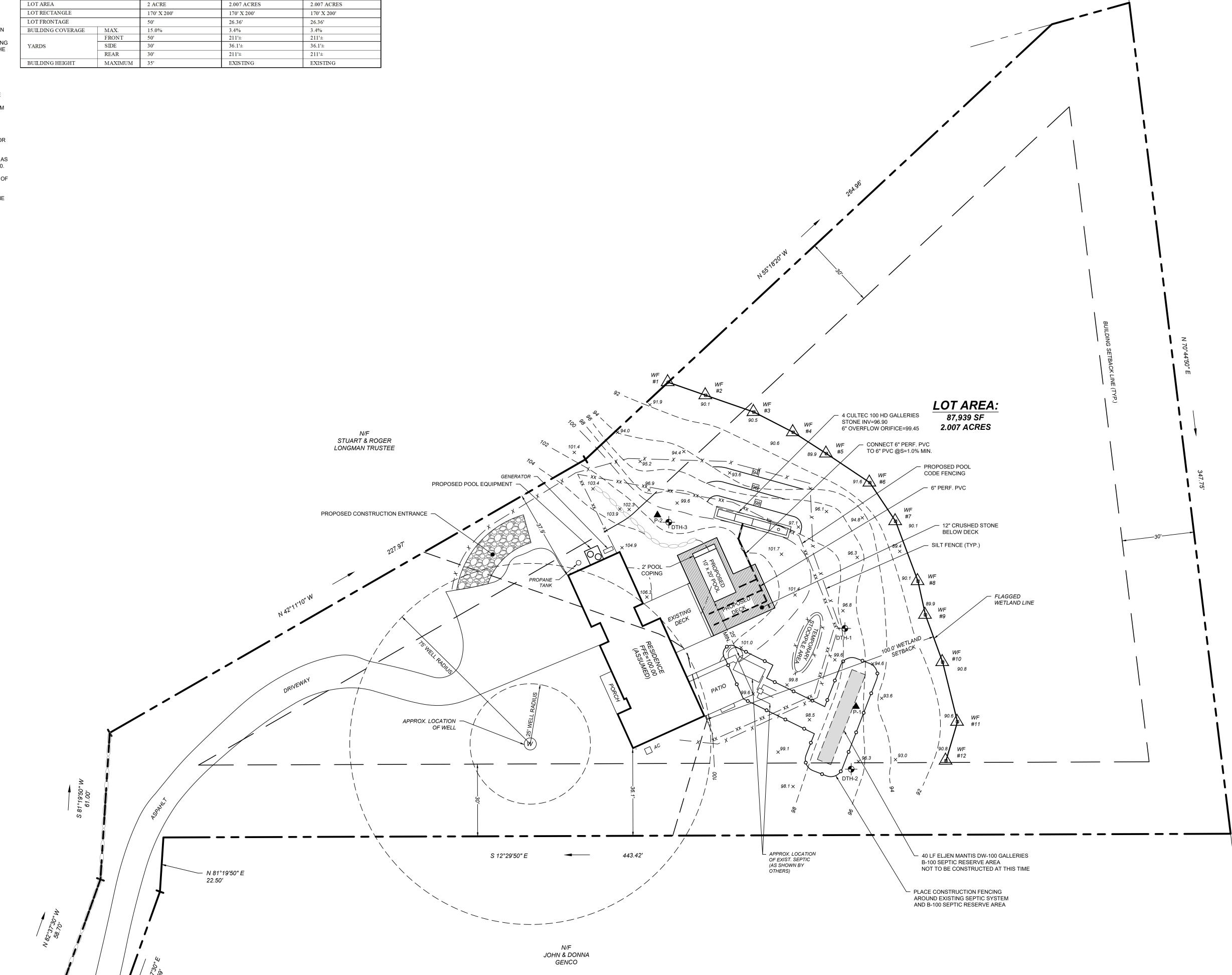
IF THEY ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS

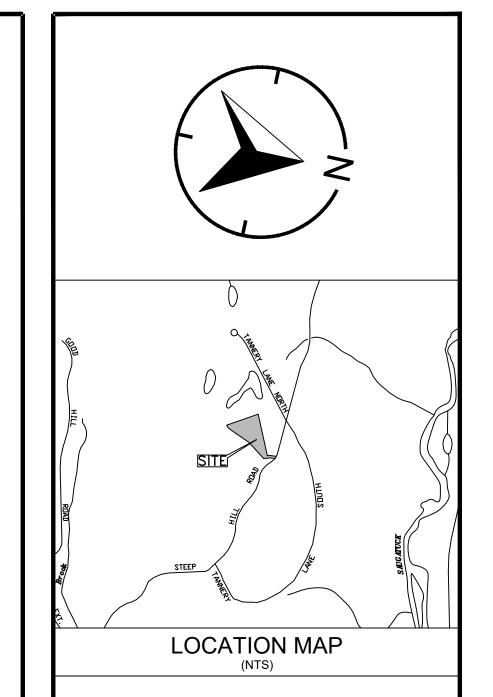
SUBJECT PROPERTY IS LOCATED IN FEMA FLOOD HAZSRD ZONE "X" AS SHOWN ON FEMA FIRM PANEL NO. 09001C 0401F EFFECTIVE 6/18/2010. A NEW BENCHMARK SHALL BE SET PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

ALL EROSION AND SEDIMENT CONTROL MEASURES SPECIFIED IN THE PLAN SHALL BE MAINTAINED UNTIL DISTURBED AREAS.

S 25°51'40" W 26.36'

ZONING DATA						
	ZONIN	G DISTRICT: 2 ACRE RESI	DENTIAL ZONE R-2A			
DIMENSION	AL	REQUIRED/ALLOWED	EXISTING	PROPOSED		
LOT AREA		2 ACRE	2.007 ACRES	2.007 ACRES		
LOT RECTANGLE		170' X 200'	170' X 200'	170' X 200'		
LOT FRONTAGE		50'	26.36'	26.36'		
BUILDING COVERAGE	MAX.	15.0%	3.4%	3.4%		
	FRONT	50'	211'±	211'±		
YARDS	SIDE	30'	36.1'±	36.1'±		
	REAR	30'	211'±	211'±		
BUILDING HEIGHT	MAXIMUM	35'	EXISTING	EXISTING		





REVISION DATE

SITE/CIVIL ENVIRONMENTAL SURVEYING PLANNING

518 RIVERSIDE AVENUE WESTPORT, CT 06880 203-454-2110 HELLO@LANDTECHCONSULT.COM WWW.LANDTECHCONSULT.COM

ISSUE

JIM MIGLIACCIO

126 STEEP HILL ROAD WESTON, CT

PROJECT TITLE:

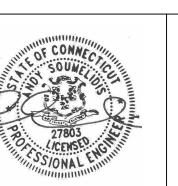
SITE IMPROVEMENTS FOR A PROPOSED POOL & DECK

RAWING TITLE:

SITE DEVELOPMENT PLAN

PROJECT No.	24267-01					
DATE:	DESIGNED BY:	CHECKED BY:				
07/19/2024	CM	PR				
SCALE: 1" = 20'	•					
IN FEET						

DESIGN DEVELOPMENT NOT FOR CONSTRUCTION



C-1.0

LAND DISTURBANCE WILL BE KEPT TO A MINIMUM; RESTABILIZATION WILL BE SCHEDULED AS SOON AS POSSIBLE.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- SILT FENCE WILL BE INSTALLED ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES, SOIL STOCKPILE AREAS, AND IN THOSE AREAS SHOWN ON THE PLAN.
- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE STATE OF CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. 2002.
- EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO LAND DISTURBANCE WHENEVER POSSIBLE.
- ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED UNTIL STABILIZATION HAS BEEN ACHIEVED.
- ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF NECESSARY OR REQUIRED. A MINIMUM OF 50 FEET OF SILT FENCE SHALL BE STORED AT THE SITE FOR EMERGENCY USE.
- ANY EXCAVATIONS THAT MUST BE DEWATERED WILL BE PUMPED INTO A 15'x15' DIRTBAG ON-SITE. THE INLETS OF ALL PUMPS ARE TO BE FLOATED A MINIMUM OF 24 INCHES OFF THE BOTTOM OF THE EXCAVATION. THE CONTRACTOR SHALL KEEP A MINIMUM OF (2) 15'x15' DIRTBAGS ON-SITE THROUGHOUT THE EXCAVATION OF PROPOSED FOUNDATIONS.
- WATER AND CALCIUM CHLORIDE SHALL BE APPLIED TO UNPAVED ACCESSWAYS TO PREVENT WIND GENERATED SEDIMENTS AND DUST.
- DEBRIS AND OTHER WASTES RESULTING FROM EQUIPMENT MAINTENANCE AND CONSTRUCTION ACTIVITIES WILL NOT BE DISCARDED ON-SITE.
- SEDIMENT REMOVED FROM CONTROL STRUCTURES WILL BE DISPOSED OF IN A

MANNER WHICH IS CONSISTENT WITH INTENT OF THE PLAN.

- SILT FENCES SHALL HAVE SEDIMENT REMOVED WHEN THE DEPTH OF THE SEDIMENT IS EQUAL TO 1/2 TO 1/2 THE HEIGHT OF THE FENCE. FENCES SHALL BE PROPERLY INSTALLED AND RIPPED FENCE OR BROKEN POSTS REPAIRED AS SOON
- ANTI-TRACKING PADS AND GRAVEL CHECK DAMS SHALL BE REPLACED WHEN VOID SPACES ARE FULL OR STRUCTURES ARE BREACHED, AS APPLICABLE.
- TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND THE SOIL SURFACE STABILIZED WHEN CONSTRUCTION IS COMPLETE AND THE SOIL SURFACES ARE PERMANENTLY STABILIZED. STRUCTURAL COMPONENTS SHALL BE CLEANED OF ALL SEDIMENT UPON COMPLETION OF CONSTRUCTION.
- THE OWNER IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES INSTALLATION AND MAINTENANCE OF CONTROL MEASURES. INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN. NOTIFYING THE PLANNING AND ZONING COMMISSION OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT PLAN IF AND WHEN THE TITLE OF LAND IS TRANSFERRED.

### GENERAL NOTES

THE REQUIRED CODE COMPLIANT SEPTIC LEACHING SYSTEM IS BASED ON 4 BEDROOMS PER WESTON CT GIS.

### B100A CODE COMPLYING NOTES

- THERE HAVE BEEN NO OBSERVED SEWERAGE BREAKOUTS FOR THE EXISTING SEPTIC
- THE EXISTING SEPTIC SYSTEM SHALL BE INSPECTED PRIOR TO ISSUANCE OF CERTIFICATION OF OCCUPANCY FOR THE PROPOSED POOL.
- EXISTING SEPTIC SYSTEM AND WELL LOCATION TAKEN FROM INFORMATION ON FILE WITH THE ASPETUCK HEALTH DISTRICT
- THE PURPOSE OF THIS PLAN IS TO DEMONSTRATE THAT A CODE COMPLYING SEPTIC SYSTEM AREA IS AVAILABLE ON THE PROPERTY TO ACCOMMODATE A PROPOSED POOL IN ACCORDANCE WITH SECTION 19-13-B100A OF THE CONNECTICUT PUBLIC HEALTH CODE. AN ENGINEERED SEPTIC SYSTEM DESIGN WILL BE REQUIRED AT THE TIME OF SEPTIC SYSTEM REPLACEMENT IF NEEDED IN THE FUTURE.
- BASED ON A VISUAL INSPECTION OF NEIGHBORING PROPERTIES AND A REVIEW OF AVAILABLE RECORDS, NO PART OF THE EXISTING SEPTIC SYSTEM AND CODE COMPLYING AREA IS WITHIN THE REQUIRED SEPARATION DISTANCE FROM A WATER SUPPLY WELL, STORM WATER STRUCTURE, GROUNDWATER DRAIN, STORM WATER SYSTEM, OR CLOSED LOOP GEOTHERMAL SYSTEM BOREHOLE/TRENCH AS DEFINED IN TABLE 1 OF THE "TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS", LATEST REVISION.

### MLSS CALCULATION - PRIMARY

HYDRAULIC GRADIENT = 10.1 - 15.0%

DRAULIC FACTOR (HF): HYDRAULIC GRADIENT AT BOTH ENDS OF SYSTEM: (98.4 - 92.5) / 50 = 11.8%; (98.6 - 90.8) / 66 = 15.6%AVG. HYDRAULIC GRADIENT = (11.8 + 15.6) / 2 = 13.7%

AVERAGE DEPTH OF TEST HOLES WITHIN THE SYSTEM: DTH-1 = 48". DTH-2= 48" (48 + 48) / 2 = 48"

LOW FACTOR (FF): NUMBER OF BEDROOMS = 4

FF = 1.75 PERCOLATION FACTOR (PF):

PERCOLATION RATE = 1" IN 10.1 - 20.0 MINUTES PF = 1.25

MLSS = HF X FF X PF MLSS = 18 X 1.75 X 1.25 MLSS = 39.375 FEET

PRIMARY LEACHING SYSTEM SPREAD = 40 FEET

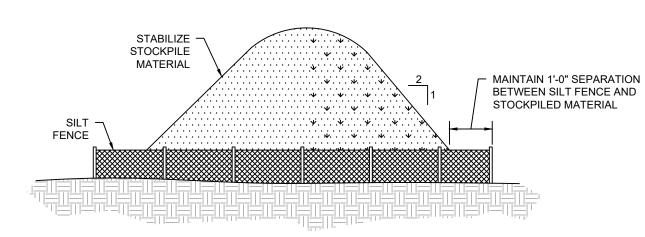
## B100A CODE COMPLYING AREA CALCULATIONS

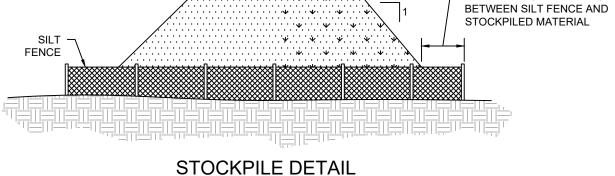
# OF BEDROOMS = 4 PERCOLATION RATE = 1 INCH IN 10.1-20.0 MINUTES

(OBSERVED PERCOLATION RATE OF 1 INCH IN 13.33 MINUTES) SQUARE FEET OF LEACHING AREA REQUIRED = 787.5 SF

## PROPOSED CODE COMPLYING AREA 40 LF OF ELJEN MANTIS DW-100 GALLERIES

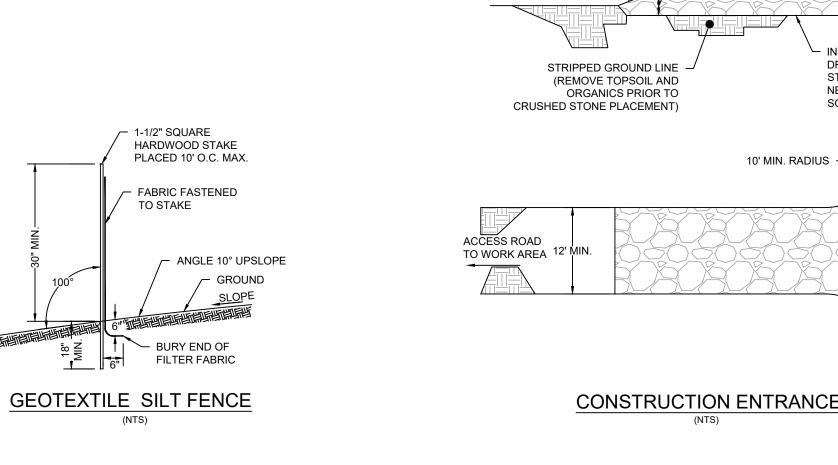
40 LF X 20.0 SF/LF = 800 SF OF LEACHING AREA PROVIDED





## GENERAL SEPTIC FEASIBILITY NOTES

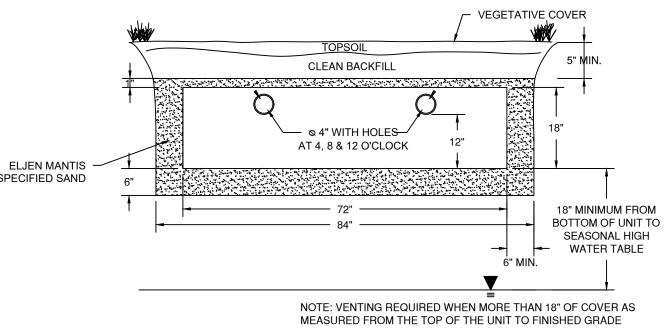
- BASED ON AN OBSERVED PERCOLATION RATE OF 1" IN 10.1-20.0 MINUTES AND A 4 BEDROOM DWELLING 787.5 SQ. FT. OF EFFECTIVE LEACHING AREA IS REQUIRED AS PER THE STATE OF CONNECTICUT HEALTH CODE. INSTALL 40 LINEAR FEET (40 LF OF TRENCHING) OF ELJEN MANTIS DW-100 GALLERIES (20.0 SQ. FT. PER FT.) PROVIDING 800 SQ. FT. OF EFFECTIVE LEACHING AREA.
- 2. HOUSE SEWER TO BE CONSTRUCTED OF 4" PVC, SCHED, 40, ASTM D1785 WITH RUBBER COMPRESSION GASKETED JOINTS OR EQUAL. MINIMUM PITCH ON HOUSE SEWER FROM HOUSE TO SEPTIC TANK TO BE ONE-QUARTER-INCH PER FOOT AND SEWER FROM SEPTIC TANK TO LEACHING SYSTEM TO BE ONE- EIGHTH PER FOOT. ALL EFFLUENT PIPES DISPERSING FLOWS TO DISTRIBUTION BOXES TO BE 4" SOLID PVC ASTM D3034 SDR 35 WITH SOLVENT SEALED JOINTS OR EQUAL. CHANGES IN DIRECTION TO BE MADE WITH THE APPROPRIATE COMMERCIALLY MANUFACTURED FITTINGS. ALL PIPES TO BE PROPERLY CONNECTED TO SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOXES
- PROVIDE A 1 250 GALLON, TWO COMPARTMENT SEPTIC TANK MADE OF CONCRETE WITH A MINIMUM 4,000 PSI CONCRETE PER ASTM STANDARDS WITH 5 TO 7 PERCENT AIR ENTRAINMENT. MANHOLES SHALL EXTEND TO FINISHED GRADE WHERE COVER OVER THE TANK EXCEEDS 12 INCHES. SEAL ALL JOINTS. ALL TANK INLET AND OUTLET PIPING SHALL BE SEALED WITH A POLYETHYLENE GASKET, "POLYLOK" OR EQUAL.
- 4. DISTRIBUTION BOXES ARE TO BE SET ON A STABLE FOOTING OF 12" MINIMUM DEPTH OF
- 5. APPROVED AGGREGATE (STONE) SHALL BE USED FOR BACKFILLING.
- 6. IT IS THE RESPONSIBILITY OF THE INSTALLER TO KEEP BOTH THE ENGINEER OF RECORD AND THE LOCAL HEALTH DEPARTMENT INFORMED OF CONSTRUCTION PROGRESS.
- THE INSTALLATION OF THE SEPTIC SYSTEM SHALL BE UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER.
- 8. EROSION AND SEDIMENT CONTROL MEASURES SPECIFIED IN THE PLAN SHALL BE MAINTAINED UNTIL DISTURBED AREAS HAVE BEEN STABILIZED.
- PRIOR TO CONSTRUCTION ACTIVITIES THE LEACHING SYSTEM AREAS SHALL BE ROPED OFF OR OTHERWISE DELINEATED SO AS TO KEEP CONSTRUCTION TRAFFIC OFF THE
- 10. THE DESIGN CONFORMS TO APPLICABLE CODE AND ACCEPTED PRACTICE. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED.
- 11. THE DISCHARGE FROM GARBAGE DISPOSALS OR WATER TREATMENT DEVICES MUST NOT BE DISCHARGED TO THE SYSTEM.
- 12. LANDTECH ASSUMES NO RESPONSIBILITY FOR SEPTIC SYSTEM SITE PREPARATION, LOCATION OR INVERT ELEVATIONS IN COMPLIANCE WITH THE APPROVED PLAN, UNLESS IT SUPERVISES EACH PHASE OF SYSTEM INSTALLATION.
- 13. IT IS THE RESPONSIBILITY OF THE INSTALLER TO CALL "CALL BEFORE YOU DIG," 1-800-922-4455, PRIOR TO ANY EXCAVATION WORK ON THE PROPERTY.



GRADATION SHALL BE DOT -

No. 3 OR ASTM C-33 No. 3

→ ACCESS →



ELJEN MANTIS DW-100 TYPICAL CROSS SECTION

SPECIFIED SAND

### - CULTEC NO. 410 NON-WOVEN GEOTEXTILE CULTEC HVLV SFCx2 FEED CONNECTOR - 1-2 INCH [25-51 mm] DIA. AROUND STONE. TOP AND SIDES WHERE SPECIFIED WASHED, CRUSHED STONE MANDATORY. BOTTOM PER ENGINEER DESIGN CULTEC CONTACTOR 100HD - NATURALLY COMPACTED FILL **HEAVY DUTY CHAMBER** FINISHED GRADE 6.0" [152mm] MIN. 12.0' [3.65m] MAX. BURIAL DEPTH ~6.0" [152mm] MIN 12.5" [318 mm] ~6.0" [152mm] MIN. CULTEC NO. 4800 WOVEN GEOTEXTILE (FOR SCOUR PROTECTION) TO BE PLACED BENEATH 12.0" [305mm] MIN. — ----36.0" [914mm] ------40.0" [1016mm] MIN. MANIFOLD FEATURE AND BENEATH ALL CENTER-TO-CENTER INLET/OUTLET PIPES - DESIGN ENGINEER RESPONSIBLE FOR ENSURING THE REQUIRED BEARING CAPACITY OF SUB-GRADE SOILS (TYP.)

GENERAL NOTES
CONTACTOR 100HD BY CULTEC, INC. OF BROOKFIELD, CT. STORAGE PROVIDED = 3.84 CF/FT [0.82 M<sup>3</sup>/3] PER DESIGN UNIT. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES. MAXIMUM ALLOWED COVER ON TOP OF UNIT SHALL BE 12.0' [3.66 m] THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS

WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.ALL CONTACTOR 100HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER. ALL CONTACTOR 100 CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL,

CULTEC CONTACTOR 100HD HEAVY DUTY (NON-TRAFFIC APP.) TYPICAL CROSS SECTION

TEST HOLE DATA

ROAD

INSTALL SUB-BASE OF FREE

NECESSARY ON UNSTABLE

DRAINING BACKFILL OR ROAD

STABILIZATION GEOTEXTILE AS

- PAVED -

-25' LENGTH MIN.-

TEST HOLE DATA TAKEN FROM INFORMATION ON FILE AT THE ASPETUCK HEALTH DISTRICT SOIL TEST CONDUCTED ON JUNE 25, 2004

TEST HOLE 1 TOPSOIL

0 - 10" ORANGE BROWN SANDY LOAM 10 – 40" DARK GRAY SAND

ROOTS TO 48" NO MOTTLING, NO GROUNDWATER, NO LEDGE RESTRICTIVE LAYER AT 48"

TEST HOLE 2 0 – 12" ORANGE BROWN SANDY LOAM 12 - 48"

12 – 50"

Final Rate:

ROOTS TO 48" NO MOTTLING, NO GROUNDWATER, NO LEDGE RESTRICTIVE LAYER AT 48"

SOIL TEST CONDUCTED ON SEPTEMBER 4, 2024

DARK GRAY SAND

TEST HOLE 1 0 – 12"

DARK GRAY SAND 50 – 78" ROOTS TO 53" NO MOTTLING, NO GROUNDWATER, NO LEDGE

RESTRICTIVE LAYER AT 50"

ORANGE BROWN SANDY LOAM

PERCOLATION TEST DATA

PERC TEST DATAT TAKEN FROM INFORMATION ON FILE WITH THE ASPETUCK HEALTH DISTRICT Perc Hole 1 Date: 6/25/2004 Presoak: 2 hr Drop Interval 3:02 5.00 1.25 00:10 8.00 5.50 0.50 00:05 10.00 1.00 00:08 3:25 6.50 8.00 3:31 7.00 0.50 00:06 12.00 7.375 3:36 0.375 00:05 13.33 Final Rate 1" in 13.33 minutes Perc Hole 2 Date: 9/4/2024 30 in. Presoak: 1 hr Drop Interval 10:30 10:40 12.50 5.50 00:10 4.00 00:10 2.50 11:00 19.50 3.00 00:10 3.33 11:10 22.00 2.50 00:10 4.00 11:20 1.50 00:10 23.50 6.67 11:30 24.50 1.00 00:10 10.00

1" in 10.00 minutes

SITE/CIVIL ENVIRONMENTAL SURVEYING PLANNING 518 RIVERSIDE AVENUE WESTPORT, CT 06880 203-454-2110 HELLO@LANDTECHCONSULT.COM WWW.LANDTECHCONSULT.COM

JIM MIGLIACCIO

PROJECT LOCATION:

126 STEEP HILL ROAD WESTON, CT

PROJECT TITLE:

SITE IMPROVEMENTS FOR A PROPOSED POOL & DECK

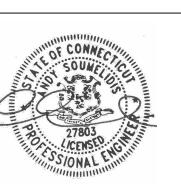
RAWING TITLE:

NOTES AND DETAILS

PROJECT No. 24267-01 CHECKED BY: **DESIGNED BY** 07/19/2024 CM SCALE:

N.T.S.

DESIGN DEVELOPMENT NOT FOR CONSTRUCTION



**C-2.0** 





August 4, 2020

Inland Wetland & Watercourse Delineation 126 Steep Hill Road Weston, Connecticut

An on-site investigation of the property at 126 Steep Hill Road in Weston, CT was conducted on August 3, 2020. The purpose of the site investigation was to identify and delineate Connecticut inland wetlands and watercourses on the project site. The project site is a developed, 2.0 acre, residential property on the west side of Steep Hill Road.

According to the Connecticut General Statutes (CGS Sections 22a-36 to 22a-45), inland wetlands are defined as areas of poorly drained, very poorly drained, floodplain and alluvial soils as delineated by a soil scientist. Watercourses are rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs, and all other bodies of water, natural or artificial, vernal or intermittent, public or private. Intermittent Watercourses are recognized by a defined permanent channel and bank and the occurrence of two or more of the following characteristics: 1) evidence of scour or deposits of recent alluvium or detritus, 2) the presence of standing or flowing water for a duration longer than a particular storm incident, and 3) the presence of hydrophytic vegetation.

The evaluation was conducted by walking the property and examining the upper 24 inches of the soil profile with a spade and auger in selected areas. Wetland boundaries were marked in the field using sequentially numbered surveyors flagging labeled "Wetland Delineation". The approximate location of the flagged wetland boundary is shown on the attached sketch.

Wetlands were identified and delineated at the base of a moderately steep slope northwest of the existing house. These forested wetlands are part of a larger wetland complex that extends off the property to the east and west. The wetland was delineated with flagging numbered WL-1 through WL-14.

The site's wetland soils are identified as Catden and Freetown soils. The Catden and Freetown series consists of very deep, very poorly drained soils formed in highly decomposed woody and herbaceous organic materials in depressions on till plains, lake plains, outwash plains, and flood plains.

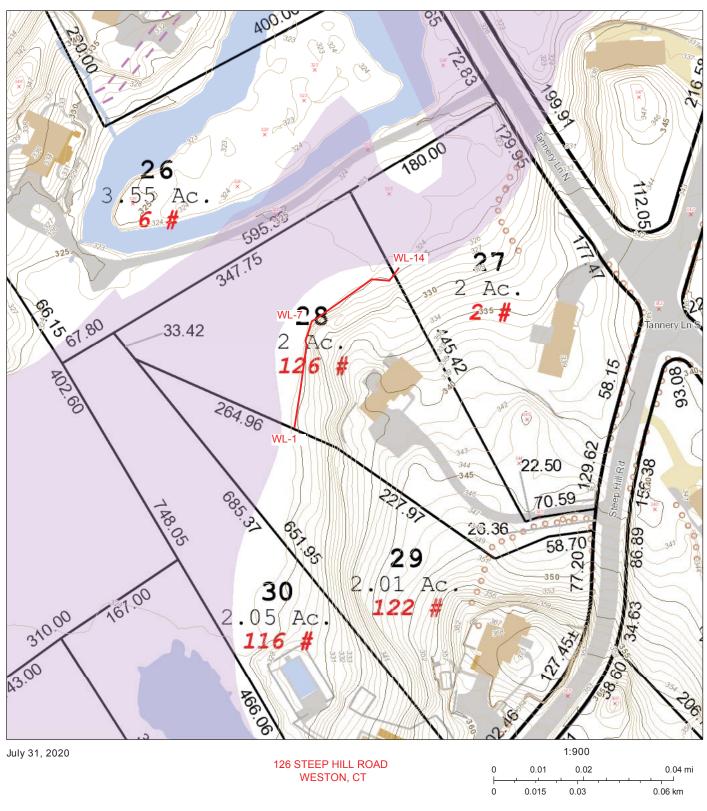
The sites non-wetland soils were not evaluated in detail. Observations regarding non-wetland soils were made in the process of identifying and delineating the wetland soils. Upland soils on the project site are identified as Charlton-Chatfield complex. The Charlton series consists of very deep and moderately deep to bedrock, well drained soils formed in loamy melt-out till. They are nearly level to very steep soils on moraines, hills, and ridges.

Christopher P. Allan

Collon.

Professional Registered Soil Scientist Professional Wetland Scientist (No. 266)

### Town of Weston, CT



APPROXIMATE LOCATION OF FLAGGED WETLAND BOUNDARY

AUGUST 3, 2020

USDA - NRCS



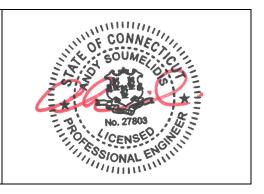
Civil & Structural Engineers Environmental Engineers & Scientists Site Planners Permit Coordination & Management Construction Management Construction Finance

## STORMWATER MANAGEMENT REPORT

for

### 126 Steep Hill Road

Weston, CT October 17, 2024



### Narrative:

The owner of 126 Steep Hill Road, Weston, CT proposes to construct a new pool, deck, and related improvements on an existing developed property. Improvements are limited to the areas related to the construction of the above-listed structures and lawn areas as shown on the site plans prepared by LANDTECH.

The property is 2.007± acres in size, it is located to the west of Steep Hill Road. There are wetlands located on the northern portion of the property.

The NRCS soils map indicates the upland soils in the vicinity of the proposed improvements to be Charlton-Chatfield complex which is a well-drained soil in Hydrologic Soil Group B. The site also contains Catden and Freetown soils which is a well-drained soil in Hydrologic Soil Group B/D. Deep test results confirm the hydrologic rating of this area. Based on field observation, a conservative infiltration rate of 3.0"/hour (observed infiltration rate of 1" in 10 min.) was utilized in the design for the proposed drainage system. It is assumed that the underlying soils will allow the detained storm water to infiltrate within 72 hours, per CT DEEP guidance (requires a 0.17"/hour infiltration rate).

For the purposes of modeling the pre- and post-development we have analyzed one (1) drainage area in the pre-development condition and two (2) subareas in the post-development conditions. Existing drainage area 1 currently discharges via sheet flow towards the wetlands located on the northern portion of the property and contains the entire site including the existing residence, driveway, deck, and patio.

Proposed Subarea 1A contains the proposed pool and deck and will discharge via crushed stone below the deck and collection piping to a proposed underground detention system located to the north of the proposed deck. Proposed subarea 1B contains the remainder of the site including the existing residence, driveway, deck, and patio and will discharge via sheet flow towards the wetlands located on the northern portion of the property matching existing conditions.

The proposed underground detention system is only intended to capture runoff from the proposed deck and pool. The proposed underground detention system is sized based on the required water quality volume as well as runoff control for the 50-year storm event.

Table 1 summarizes the required and proposed water quality volumes (WQv) and runoff control for the 50-year storm event.

TABLE 1 – WQv & 50 YEAR STORM						
	PRE-DEV/	POST DEV				
	REQUIRED					
PEAK RATE STORMWATER RUNOFF FROM SITE (cfs)	6.01	5.95				
WATER QUALITY (cf)	68.97	166.80				

It is our professional opinion that upon construction of the proposed improvements, stormwater discharge from the site will comply with the applicable rules and regulations of the Town of Weston.

### Exhibits:

- ➤ NRCS Soils Report
- Watershed Maps
- ➤ Water Quality Volume Calculations
- > Stormwater Runoff Computations

## NRCS Soils Report



### MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) С 1:12.000. Area of Interest (AOI) C/D Soils Warning: Soil Map may not be valid at this scale. D Soil Rating Polygons Enlargement of maps beyond the scale of mapping can cause Not rated or not available Α misunderstanding of the detail of mapping and accuracy of soil **Water Features** line placement. The maps do not show the small areas of A/D Streams and Canals contrasting soils that could have been shown at a more detailed Transportation B/D Rails ---Please rely on the bar scale on each map sheet for map measurements. Interstate Highways C/D Source of Map: Natural Resources Conservation Service **US Routes** Web Soil Survey URL: D Major Roads Coordinate System: Web Mercator (EPSG:3857) Not rated or not available -Local Roads Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Soil Rating Lines Background distance and area. A projection that preserves area, such as the Aerial Photography 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 2, Aug 30, 2024 Soil map units are labeled (as space allows) for map scales 1:50.000 or larger. Not rated or not available Date(s) aerial images were photographed: Oct 21, 2022—Oct 27. 2022 **Soil Rating Points** The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background A/D imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. B/D

### **Hydrologic Soil Group**

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
18	Catden and Freetown soils, 0 to 2 percent slopes	B/D	0.7	36.6%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	В	1.3	63.4%
Totals for Area of Interest			2.0	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

# Watershed Maps

NOT FOR CONSTRUCTION FOR REVIEW AND APPROVAL BY PUBLIC AGENCIES ONLY

# Water Quality Volume Calculations

Project: 126 Steep Hill Road By: SM Date: 10/17/2024

Weston, CT Checked: AS Revised:

### 1. Water Quality Volume

a. Compute volumetric runoff coefficient, R	R = 0.05 + 0.009(I)
---	---------------------

	Proposed		
Total Drainage Area, A	0.020	acres	
Total Impervious Area	0.020	acres	
Percentage of Impervious Area, I	100.0%		
Runoff Coefficient, R	0.950		

### **b.** Compute water quality volume, WQV WQV = [(1")(R)(A)]/12

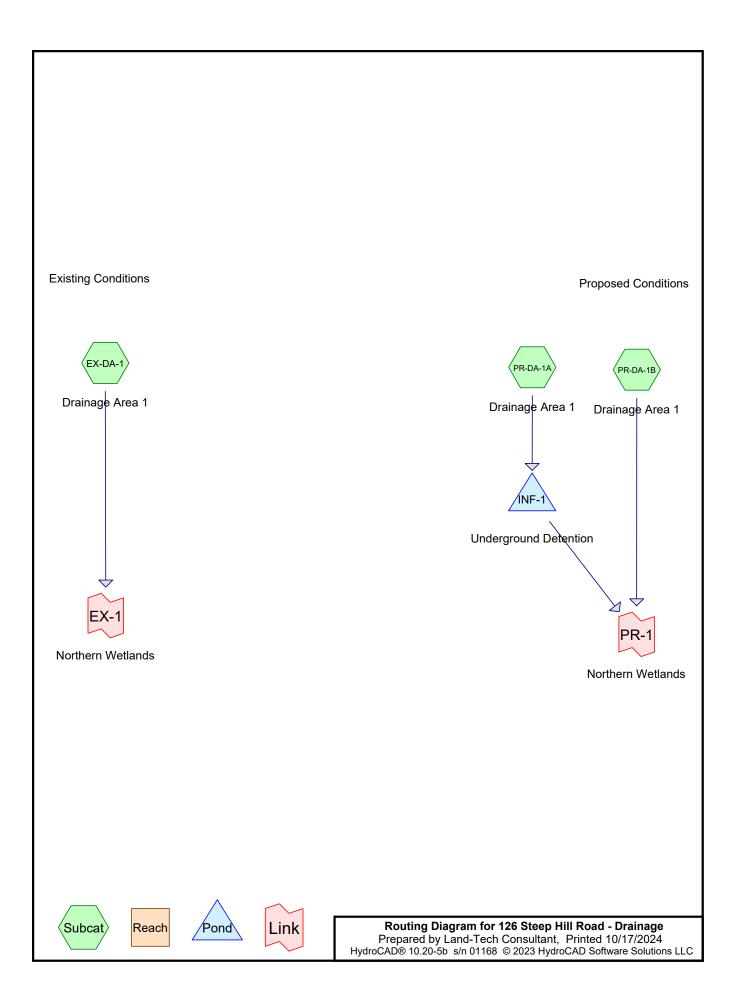
Total Project Area, A	0.020	acres	
Runoff Coefficient, R	0.950		
Water Quality Volume, WQV	0.002	acre-foot	
Water Quality Volume, WQV	68.97	cf	Required

WQV in Underround Detention 166.80 cf

Total WQV 166.80 cf Provided

Water Quality Volume provided > required

## Stormwater Runoff Computations



126 Steep Hill Road - Drainage
Prepared by Land-Tech Consultant
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### **Rainfall Events Listing**

Event#	Event	Storm Type	Curve	Mode	Duration	B/B	Depth	AMC
	Name				(hours)		(inches)	
1	50yr Storm	Type III 24-hr		Default	24.00	1	7.50	2

126 Steep Hill Road - Drainage
Prepared by Land-Tech Consultant
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### **Area Listing (selected nodes)**

Area	CN	Description
(sq-ft)		(subcatchment-numbers)
74,141	61	>75% Grass cover, Good, HSG B (EX-DA-1, PR-DA-1B)
896	98	Existing Deck To Remain (EX-DA-1, PR-DA-1B)
10,274	98	Existing Driveway To Remain (EX-DA-1, PR-DA-1B)
852	98	Existing Patio To Remain (EX-DA-1, PR-DA-1B)
178	98	Existing Porch To Remain (EX-DA-1, PR-DA-1B)
4,080	98	Existing Residence To Remain (EX-DA-1, PR-DA-1B)
663	98	Proposed Deck (PR-DA-1A)
220	98	Proposed Pool & Coping (PR-DA-1A)
84,574	55	Woods, Good, HSG B (EX-DA-1, PR-DA-1B)
175,878	62	TOTAL AREA

### **Summary for Subcatchment EX-DA-1: Drainage Area 1**

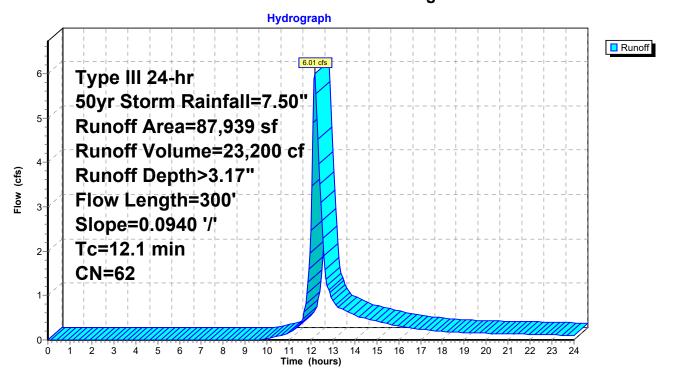
Runoff = 6.01 cfs @ 12.17 hrs, Volume= 23,200 cf, Depth> 3.17"

Routed to Link EX-1: Northern Wetlands

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 50yr Storm Rainfall=7.50"

	Α	rea (sf)	CN	Description				
*		2,040	98	Existing Re	sidence To	Remain		
*		89	98	Existing Po	rch To Ren	nain		
*		5,137	98	Existing Dri	veway To F	Remain		
*		448	98	Existing De	ck To Rem	ain		
*		426	98	Existing Pa	tio To Rem	ain		
		37,512	61	>75% Ğras	s cover, Go	ood, HSG B		
		42,287	55	Woods, Go	od, HSG B			
		87,939	62	Weighted A	verage			
	79,799 90.74% Pervious Area							
		8,140		9.26% Impe	ervious Are	а		
				•				
	Tc	Length	Slope	Velocity	Capacity	Description		
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)			
	12.1	300	0.0940	0.41		Sheet Flow,		
						Grass: Short	n= 0.150	P2= 3.55"

### **Subcatchment EX-DA-1: Drainage Area 1**



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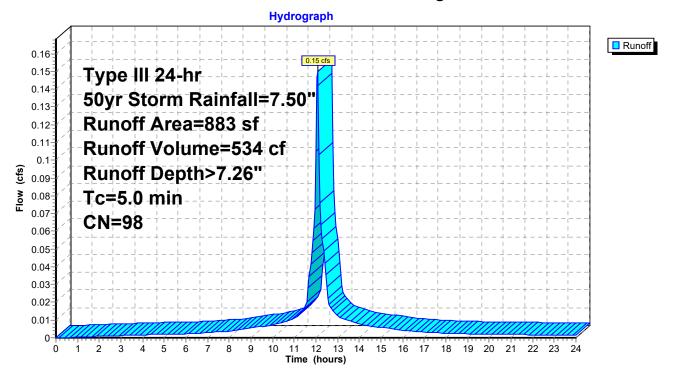
### Summary for Subcatchment PR-DA-1A: Drainage Area 1

Runoff = 0.15 cfs @ 12.07 hrs, Volume= 534 cf, Depth> 7.26" Routed to Pond INF-1 : Underground Detention

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 50yr Storm Rainfall=7.50"

	Α	rea (sf)	CN	Description						
*		220	98	Proposed P	ool & Copi	ing				
*		663	98	Proposed D	Proposed Deck					
_		883	98	Weighted A	verage					
		883		100.00% Impervious Area						
_	Tc (min)	Length (feet)	Slop (ft/f	,	Capacity (cfs)	Description				
	5.0					Direct Entry,				

### Subcatchment PR-DA-1A: Drainage Area 1



### Summary for Subcatchment PR-DA-1B: Drainage Area 1

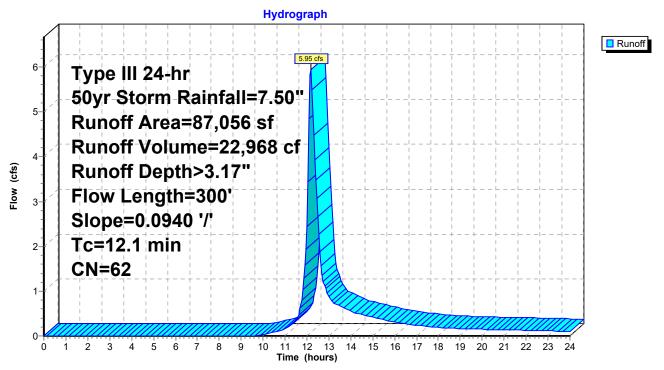
Runoff = 5.95 cfs @ 12.17 hrs, Volume= 22,968 cf, Depth> 3.17"

Routed to Link PR-1: Northern Wetlands

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 50yr Storm Rainfall=7.50"

	Α	rea (sf)	CN I	Description					
*		2,040	98	Existing Re	sidence To	Remain			
*		89	98	Existing Po	rch To Ren	nain			
*		5,137	98	Existing Dri	veway To F	Remain			
*		448	98	Existing De	ck To Rem	ain			
*		426	98	Existing Pa	tio To Rem	ain			
		36,629	61	>75% Ğras	s cover, Go	ood, HSG B			
		42,287	55	Woods, Go	od, HSG B				
		87,056	62	Weighted A	verage				
		78,916	9	90.65% Per	rvious Area	l			
		8,140	9	9.35% Impe	ervious Are	а			
				-					
	Tc	Length	Slope	Velocity	Capacity	Description			
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
	12.1	300	0.0940	0.41		Sheet Flow,			_
						Grass: Short	n= 0.150	P2= 3.55"	

### Subcatchment PR-DA-1B: Drainage Area 1



### 126 Steep Hill Road - Drainage

Prepared by Land-Tech Consultant

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### **Summary for Pond INF-1: Underground Detention**

Inflow Area = 883 sf,100.00% Impervious, Inflow Depth > 7.26" for 50yr Storm event
Inflow = 0.15 cfs @ 12.07 hrs, Volume= 534 cf
Outflow = 0.05 cfs @ 12.36 hrs, Volume= 534 cf, Atten= 64%, Lag= 17.5 min
Discarded = 0.01 cfs @ 11.15 hrs, Volume= 505 cf
Primary = 0.04 cfs @ 12.36 hrs, Volume= 29 cf
Routed to Link PR-1 : Northern Wetlands

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Peak Elev= 101.49' @ 12.35 hrs Surf.Area= 163 sf Storage= 167 cf

Plug-Flow detention time= 98.5 min calculated for 534 cf (100% of inflow) Center-of-Mass det. time= 98.2 min (839.0 - 740.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	98.90'	110 cf	5.00'W x 32.50'L x 2.04'H Field A
			332 cf Overall - 57 cf Embedded = 275 cf x 40.0% Voids
#2A	99.40'	57 cf	Cultec C-100HD x 4 Inside #1
			Effective Size= 32.1"W x 12.0"H => 1.86 sf x 7.50'L = 14.0 cf
			Overall Size= 36.0"W x 12.5"H x 8.00'L with 0.50' Overlap
			Row Length Adjustment= +0.50' x 1.86 sf x 1 rows
		167 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	98.90'	3.000 in/hr Exfiltration over Surface area
#2	Primary	101.45'	<b>6.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

**Discarded OutFlow** Max=0.01 cfs @ 11.15 hrs HW=98.93' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.04 cfs @ 12.36 hrs HW=101.49' (Free Discharge) 2=Orifice/Grate (Weir Controls 0.04 cfs @ 0.63 fps)

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### Pond INF-1: Underground Detention - Chamber Wizard Field A

### Chamber Model = Cultec C-100HD (Cultec Contactor® 100HD)

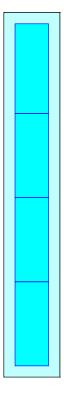
Effective Size= 32.1"W x 12.0"H => 1.86 sf x 7.50'L = 14.0 cf Overall Size= 36.0"W x 12.5"H x 8.00'L with 0.50' Overlap Row Length Adjustment= +0.50' x 1.86 sf x 1 rows

- 4 Chambers/Row x 7.50' Long +0.50' Row Adjustment = 30.50' Row Length +12.0" End Stone x 2 = 32.50' Base Length
- 1 Rows x 36.0" Wide + 12.0" Side Stone x 2 = 5.00' Base Width 6.0" Stone Base + 12.5" Chamber Height + 6.0" Stone Cover = 2.04' Field Height
- 4 Chambers x 14.0 cf +0.50' Row Adjustment x 1.86 sf x 1 Rows = 56.8 cf Chamber Storage

331.8 cf Field - 56.8 cf Chambers = 275.0 cf Stone x 40.0% Voids = 110.0 cf Stone Storage

Chamber Storage + Stone Storage = 166.8 cf = 0.004 af Overall Storage Efficiency = 50.3% Overall System Size = 32.50' x 5.00' x 2.04'

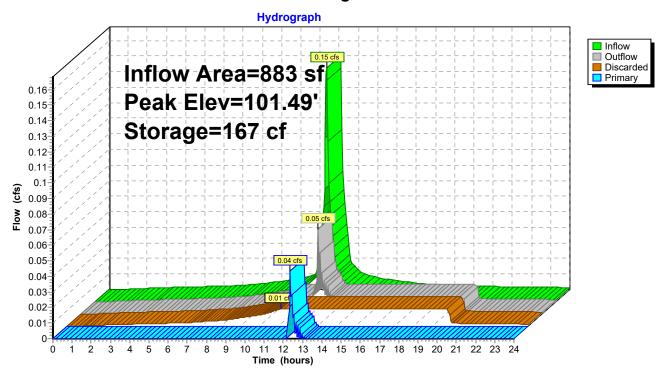
4 Chambers 12.3 cy Field 10.2 cy Stone





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### **Pond INF-1: Underground Detention**



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### **Summary for Link EX-1: Northern Wetlands**

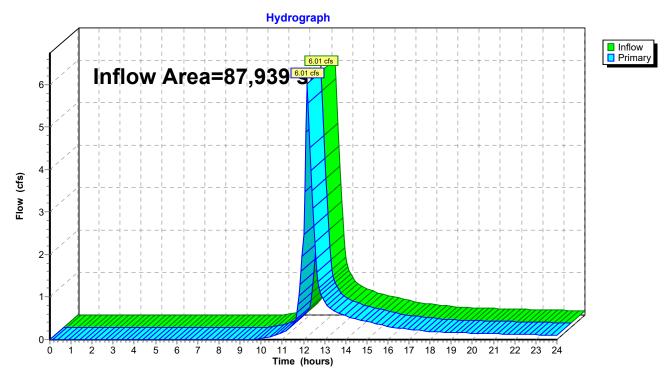
Inflow Area = 87,939 sf, 9.26% Impervious, Inflow Depth > 3.17" for 50yr Storm event

Inflow = 6.01 cfs @ 12.17 hrs, Volume= 23,200 cf

Primary = 6.01 cfs @ 12.17 hrs, Volume= 23,200 cf, Atten= 0%, Lag= 0.0 min

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

### **Link EX-1: Northern Wetlands**



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### **Summary for Link PR-1: Northern Wetlands**

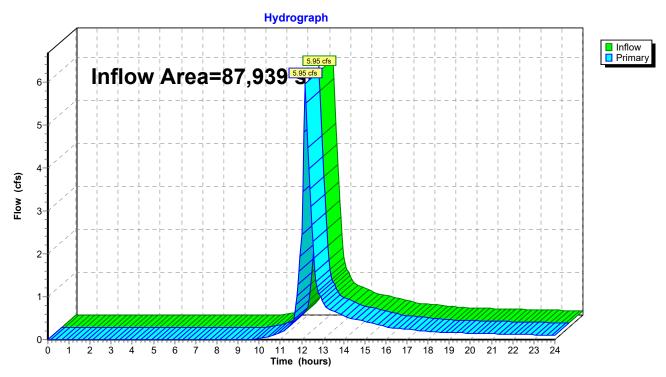
Inflow Area = 87,939 sf, 10.26% Impervious, Inflow Depth > 3.14" for 50yr Storm event

Inflow = 5.95 cfs @ 12.17 hrs, Volume= 22,996 cf

Primary = 5.95 cfs @ 12.17 hrs, Volume= 22,996 cf, Atten= 0%, Lag= 0.0 min

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

### **Link PR-1: Northern Wetlands**



19 1 30 19 1 26 1921 **MINER DIANA ZHANG JUN VIVALO KATHLEEN & MICHAEL** 116 STEEPHILL ROAD **6 TANNERY LANE N 7 TANNERY LANE SOUTH WESTON** CT 06883 WESTON CT 06883 WESTON CT 06883 19 1 27 19 1 29 19 1 28 **MAHFOUDIA LYES TR & LONGMAN ROGER A & LONGMAN BLACK** MIGLIACCIO JAMES V + JULIE E **2 TANNERY LANE NORTH** 122 STEEPHILL RD 126 STEEPHILL RD WESTON WESTON WESTON CT 06883 CT 06883 CT 06883 19 1 40 **ZHAO FANNY & JI YING** 

1947 79TH STREET

**BROOKLYN** 

NY 11214

79 Elm Street • Hartford, CT 06106-5127

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## STATEWIDE INLAND WETLANDS & WATERCOURSES ACTIVITY REPORTING FORM

Pursuant to section 22a-39(m) of the General Statutes of Connecticut and section 22a-39-14 of the Regulations of Connecticut State Agencies, inland wetlands agencies must complete the Statewide Inland Wetlands & Watercourses Activity Reporting Form for **each** action taken by such agency.

This form may be made part of a municipality's inland wetlands application package. If the municipality chooses to do this, it is recommended that a copy of the Town and Quadrangle Index of Connecticut and a copy of the municipality's subregional drainage basin map be included in the package.

Please remember, the inland wetlands agency is responsible for ensuring that the information provided is **accurate** and that it reflects the **final** action of the agency. Incomplete or incomprehensible forms will be mailed back to the agency. Instructions for completing the form are located on the following pages.

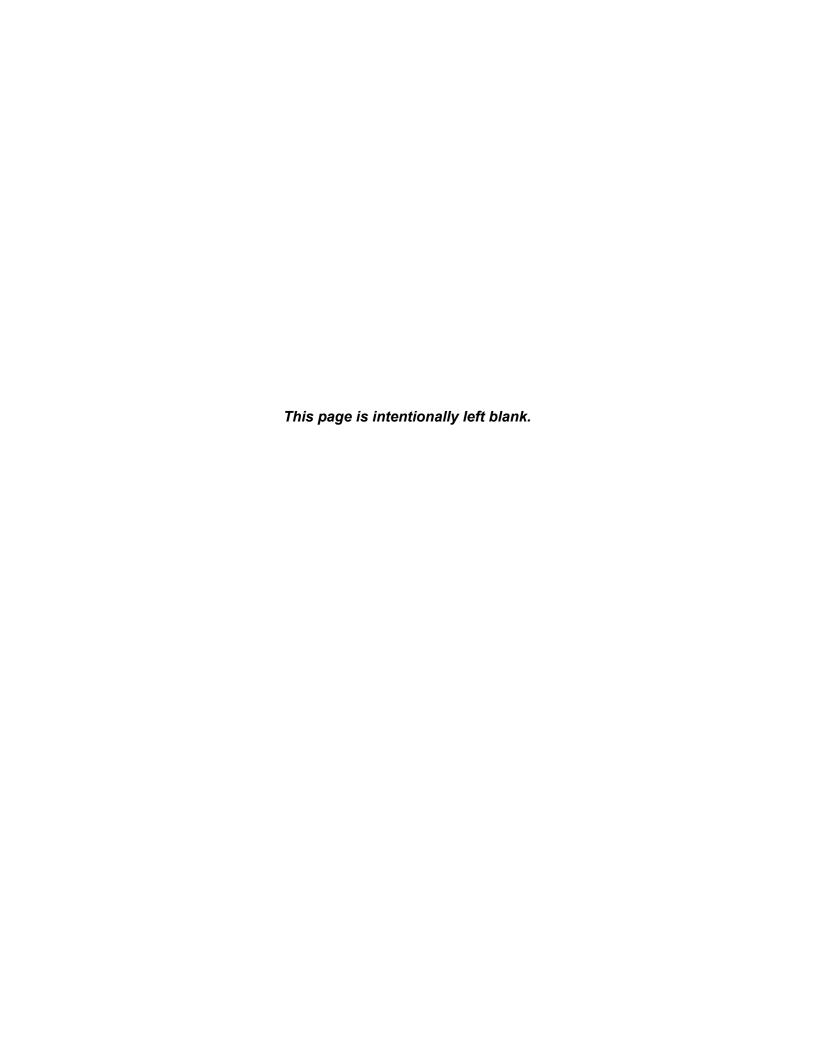
The inland wetlands agency shall mail completed forms for actions taken during a calendar month no later than the 15<sup>th</sup> day of the following month to the Department of Energy and Environmental Protection (DEEP). Do **not** mail this cover page or the instruction pages. Please mail **only** the **completed** reporting form to:

DEEP Land & Water Resources Division Inland Wetlands Management Program 79 Elm Street, 3<sup>rd</sup> Floor Hartford, CT 06106

Questions may be directed to the DEEP's Inland Wetlands Management Program at (860) 424-3019.

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### INSTRUCTIONS FOR COMPLETING

### THE STATEWIDE INLAND WETLANDS & WATERCOURSES ACTIVITY REPORTING FORM

Use a separate form to report EACH action taken by the Agency. Complete the form as described below.

Do NOT submit a reporting form for withdrawn actions.

### PART I: Must Be Completed By The Inland Wetlands Agency

- 1. Choose the year and month the Inland Wetlands Agency took the action being reported. If multiple actions were taken regarding the same project or activity then multiple forms need to be completed.
- 2. Choose ONE code letter to describe the final action or decision taken by the Inland Wetlands Agency. Do NOT submit a reporting form for withdrawn actions. Do NOT enter multiple code letters (for example, if the same project or activity had both a permit issued and enforcement action, submit two forms for the two separate actions).
  - A = A Permit Granted by the Inland Wetlands Agency (not including map amendments, see code D below)
  - **B** = Any Permit Denied by the Inland Wetlands Agency
  - **C** = A Permit Renewed or Amended by the Inland Wetlands Agency
  - D = A Map Amendment to the Official Town Wetlands Map or An Approved/Permitted Wetland or Watercourse Boundary Amendment to a Project Site Map
  - E = An Enforcement Action: Permit Revocation, Citation, Notice of Violation, Order, Court Injunction, or Court Fines
  - **F** = A Jurisdictional Ruling by the Inland Wetlands Agency (activities "permitted as of right" or activities considered non-regulated)
  - **G** = An Agent Approval pursuant to CGS 22a-42a(c)(2)
  - $\mathbf{H}$  = An Appeal of Agent Approval Pursuant to 22a-42a(c)(2)
- 3. Check "yes" if a public hearing was held in regards to the action taken; otherwise check "no".
- **4.** Enter the name of the Inland Wetlands Agency official verifying that the information provided on this form is accurate and that it reflects the FINAL action of the agency.

**PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant** - If Part II is completed by the applicant, the applicant MUST return the form to the Inland Wetlands Agency. The Inland Wetlands Agency MUST ensure that the information provided is accurate and that it reflects the FINAL action of the Agency.

- **5.** Enter the name of the municipality for which the Inland Wetlands Agency has jurisdiction and in which the action/project/activity is occurring.
  - Check "yes" if the action/project/activity crosses municipal boundaries and enter the name(s) of the other municipality(ies) where indicated. Check "no" if it does not cross municipal boundaries.
- 6. Enter the USGS Quad Map name or number (1 through 115) as found on the Connecticut Town and Quadrangle Index Map (the directory to all USGS Quad Maps) that contains the location of the action/project/activity. USGS Quad Map information is available at: <a href="https://portal.ct.gov/-/media/deep/gis/resources/IndexNamedQuadTownpdf.pdf">https://portal.ct.gov/-/media/deep/gis/resources/IndexNamedQuadTownpdf.pdf</a>
  ALSO enter the four-digit identification number of the corresponding Subregional Drainage Basin in which the action/project/activity is located. If located in more than one subregional drainage basin, enter the number of the basin in which the majority of the action/project/activity is located. Town subregional drainage basin maps can be found at UConn CLEAR's website: <a href="https://media.clear.uconn.edu/data/watershed\_maps/index.htm">https://media.clear.uconn.edu/data/watershed\_maps/index.htm</a> (no roads depicted) or at CTECO: <a href="https://www.cteco.uconn.edu/map\_catalog.asp">https://www.cteco.uconn.edu/map\_catalog.asp</a> (depicts roads, choose town and a natural drainage basin map).
- 7. Enter the name of the individual applying for, petitioning, or receiving the action.
- 8. Enter the name and address or location of the action/project/activity. Check if the action/project/activity is TEMPORARY or PERMANENT in nature. Also provide a brief DESCRIPTION of the action/project/activity. It is always best to provide as much information as possible (for example, don't state "forestry," provide details such as "20 acre forest harvest, permit required for stream crossing.")

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- **9.** Carefully review the list below and enter ONLY ONE code letter which best characterizes the action/project/activity. All state agency projects must code "N".
  - **A** = Residential Improvement by Homeowner
  - **B** = New Residential Development for Single Family Units
  - **C** = New Residential Development for Multi-Family / Condos
  - **D** = Commercial / Industrial Uses
  - **E** = Municipal Project
  - **F** = Utility Company Project
  - **G** = Agriculture, Forestry or Conservation
  - **H** = Wetland Restoration, Enhancement, Creation

- I = Storm Water / Flood Control
- **J** = Erosion / Sedimentation Control
- **K** = Recreation / Boating / Navigation
- L = Routine Maintenance
- **M** = Map Amendment
- **N** = State Agency Project
- **P** = Other (this code includes the approval of concept, subdivision or similar plans with no on-the-ground work)
- 10. Enter between one and four code numbers to best characterize the action/project/activity being reported. Enter "NA" if this form is being completed for the action of map amendment. You MUST provide code 12 if the activity is located in an established upland review area. You MUST provide code 14 if the activity is located beyond the established upland review area or no established upland review area exists.
  - 1 = Filling
  - 2 = Excavation
  - **3** = Land Clearing / Grubbing (no other activity)
  - 4 = Stream Channelization
  - **5** = Stream Stabilization (includes lakeshore stabilization)
  - **6** = Stream Clearance (removal of debris only)
  - **7** = Culverting (not for roadways)

- **8** = Underground Utilities Only (no other activities)
- **9** = Roadway / Driveway Construction (including related culverts)
- **10** = Drainage Improvements
- 11 = Pond, Lake Dredging / Dam Construction
- 12 = Activity in an Established Upland Review Area
- 14 = Activity in Upland

**Examples:** Jurisdictional ruling allowing construction of a parking lot in an upland where the municipality does not have an established upland review area must use code 14, other possible codes are 2 and 10. Permitted construction of a free standing garage (residential improvement by homeowner) partially in an established upland review area with the remainder in the upland must use code 12 and 14, other possible codes are 1 and 2.

- 11. Leave blank for TEMPORARY alterations but please indicate action/project/activity is temporary under question #8 on the form. For PERMANENT alterations, enter in acres the area of wetland soils or watercourses altered. Include areas that are permanently altered, or are proposed to be, for all agency permits, denials, amendments, renewals, jurisdictional rulings, and enforcement actions. For those activities that involve filling or dredging of lakes, ponds or similar open water bodies enter the acres filled or dredged under "open water body." For those activities that involve directly altering a linear reach of a brook, river, lakeshore or similar linear watercourse, enter the total linear feet altered under "stream." Remember, these figures represent only the acreage altered, not the total acreage of wetlands or watercourses on the site. You MUST provide all information in ACRES (or linear feet as indicated) including those areas less than one acre. To convert from square feet to acres, divide square feet by the number 43,560. If this report is being completed for an agency jurisdictional ruling and detailed information is not available, provide an estimate. Enter zero if there is no alteration.
- 12. Enter in acres the area of upland altered as a result of an ACTIVITY REGULATED BY the inland wetlands agency, or as a result of an AGENT APPROVAL pursuant to CGS section 22a-42a(c)(2). Leave blank for TEMPORARY alterations but please indicate action/project/activity is temporary under question #8 on the form. Include areas that are permanently altered, or proposed to be permanently altered, for all agent approvals, agency permits, denials, amendments, renewals, jurisdictional rulings, and enforcement actions. You MUST provide all information in ACRES including those areas less than one acre. See directions above (#11) for conversion factor. If this report is being completed for an agent approval or an agency jurisdictional ruling and detailed information is not available, provide an estimate. Enter zero if there is no alteration.
- 13. Enter the acres that are, or are proposed to be, restored, enhanced or created for all agency permits, denials, amendments, renewals, jurisdictional rulings and enforcement actions. NOTE restored or enhanced applies to previously existing wetlands or watercourses. Created applies to a non-wetland or non-watercourse area which is converted into wetlands or watercourses. For created question #10 must provide 12 and/or 14 as an answer, and question #12 must also be answered. You MUST provide all information in ACRES including those areas less than one acre. See directions above (#11) for conversion factor. Enter zero if there is no restoration, enhancement or creation.

**PART III: To Be Completed By The DEEP** - Please leave this area blank. Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.

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GIS CODE #:	 	 	 	 
For DEEP Use Only				

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### 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, 3<sup>rd</sup> 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
1.	DATE ACTION WAS TAKEN: year: month:
2.	ACTION TAKEN (see instructions - one code only):
3.	WAS A PUBLIC HEARING HELD (check one)? yes  no
4.	NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:
4.	
	(print name) (signature)
	PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant
5.	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)):,,
6.	LOCATION (see instructions for information): USGS quad name: or number: or number:
	subregional drainage basin number:
7.	NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Peter Romano
8.	NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): 126 Steephill Road
	briefly describe the action/project/activity (check and print information): temporary permanent and description:
	Proposed pool & deck.
	ACTIVITY PURPOSE CODE (see instructions - one code only):
10.	ACTIVITY TYPE CODE(S) (see instructions for codes): 1 2 9 14
11.	. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):
	wetlands: 0.971 acres open water body: 0 acres stream: 0 linear feet
12.	. UPLAND AREA ALTERED (must provide acres): acres
13.	. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres):0 acres
DA	ATE RECEIVED: PART III: To Be Completed By The DEEP DATE RETURNED TO DEEP:
FC	DRM COMPLETED: YES NO FORM CORRECTED / COMPLETED: YES NO