TOWN OF NORTH CASTLE

WESTCHESTER COUNTY
17 Bedford Road
Armonk, New York 10504-1898

RESIDENTIAL PROJECT
REVIEW COMMITTEE
Adam R. Kaufman AICP, Chair

Telephone: (914) 273-3000 x 43
Fax: (914) 273-3554
www.nortcastleny.com

RESIDENTIAL PROJECT REVIEW COMMITTEE (RPRC) APPLICATION

Section I- PROJECT

ADDRESS: 5 HOBBY FARM DRIVE

Section III- DESCRIPTION OF WORK:

INSTALL IN-GROUND CONCRETE POOL WITH SPA, PATIO, WALKS, WALL, & STEPS, PAVILION

Section III- CONTACT INFORMATION:

APPLICANT: SHORELINE POOLS INC. (JOHN DEFEO LA.)
ADDRESS: 393 WEST AVE., STAMFORD, CT 06902
PHONE: (203) 967-1203 MOBILE: _____ EMAIL: JDEFEO@SHORELINEPOOLS.COM

PROPERTY OWNER: NAOMI & ROBERT SILPE
ADDRESS: 5 HOBBY FARM DRIVE, BEDFORD, NY 10506
PHONE: _____ MOBILE: 917 364 4948 EMAIL: ROBERT.SILPE@GMAIL.COM

PROFESSIONAL:: FRANGIONE ENGINEERING, LLC (ROB FRANGIONE)
ADDRESS: 15 SNOWBERRY LANE, NEW CANAAN, CT 06840
PHONE: (203) 554-9551 MOBILE: _____
EMAIL: ROB.FRANGIONE@FRANGIONE.NET

Section IV- PROPERTY INFORMATION:

Zone: R-2A Tax ID (lot designation) SEC 1, BLOCK 5, LOT 15-24

Town of North Castle
Residential Project Review Committee
17 Bedford Road Armonk, New York 10504
(914) 273-3542 (914) 273-3554 (fax)

RPRC COMPLETENESS REVIEW FORM

This form represents the standard requirements for a completeness review for all Residential Project Review Committee submissions. Failure to provide all of the information requested will result in a determination that the application is incomplete.

Project Name on Plan: Naomi & Robert Silpe

■ Initial Submittal ☐ Revised Preliminary

Street Location: 5 Hobby Farm Drive

Zoning District: R-2A Property Acreage: +/-2.11 Tax Map Parcel ID: sec 1, Bl 5, Lot 15-24

Date: 11/9/2020

DEPARTMENTAL USE ONLY

Date Filed: _____ Staff Name: _____

Preliminary Plan Completeness Review Checklist
Items marked with a ☐ are complete, items left blank ☐ are incomplete and must be completed, "NA" means not applicable.

☐ 1. Plan prepared by a registered architect or professional engineer

☐ 2. Aerial photo (Google Earth) showing the applicant's entire property and adjacent properties and streets

☐ 3. Map showing the applicant's entire property and adjacent properties and streets

☐ 4. A locator map at a convenient scale

☐ 5. The proposed location, use and design of all buildings and structures

☐ 6. Existing topography and proposed grade elevations

☐ 7. Location of drives

☐ 8. Location of all existing and proposed site improvements, including drains, culverts, retaining walls and fences

- [ ] 9. Description of method of water supply and sewage disposal and location of such facilities
- [ ] 10. The name and address of the applicant, property owner(s) if other than the applicant and of the planner, engineer, architect, surveyor and/or other professionals engaged to work
- [ ] 11. Submission of a Zoning Conformance Table depicting the plan's compliance with the minimum requirements of the Zoning District
- [ ] 12. If a tree removal permit is being sought, submission of a plan depicting the location and graphical removal status of all Town-regulated trees within the proposed area of disturbance. In addition, the tree plan shall be accompanied by a tree inventory includes a unique ID number, the species, size, health condition and removal status of each tree.
- [ ] 13. If a wetlands permit is being sought, identification of the wetland and the 100-foot wetland buffer.

More information about the items required herein can be obtained from the North Castle Planning Department. A copy of the Town Code can be obtained from Town Clerk or on the North Castle homepage: http://www.northcastleny.com/townhall.html

_____ On this date, all items necessary for a technical review of the proposed site plan have been submitted and constitute a COMPLETE APPLICATION.

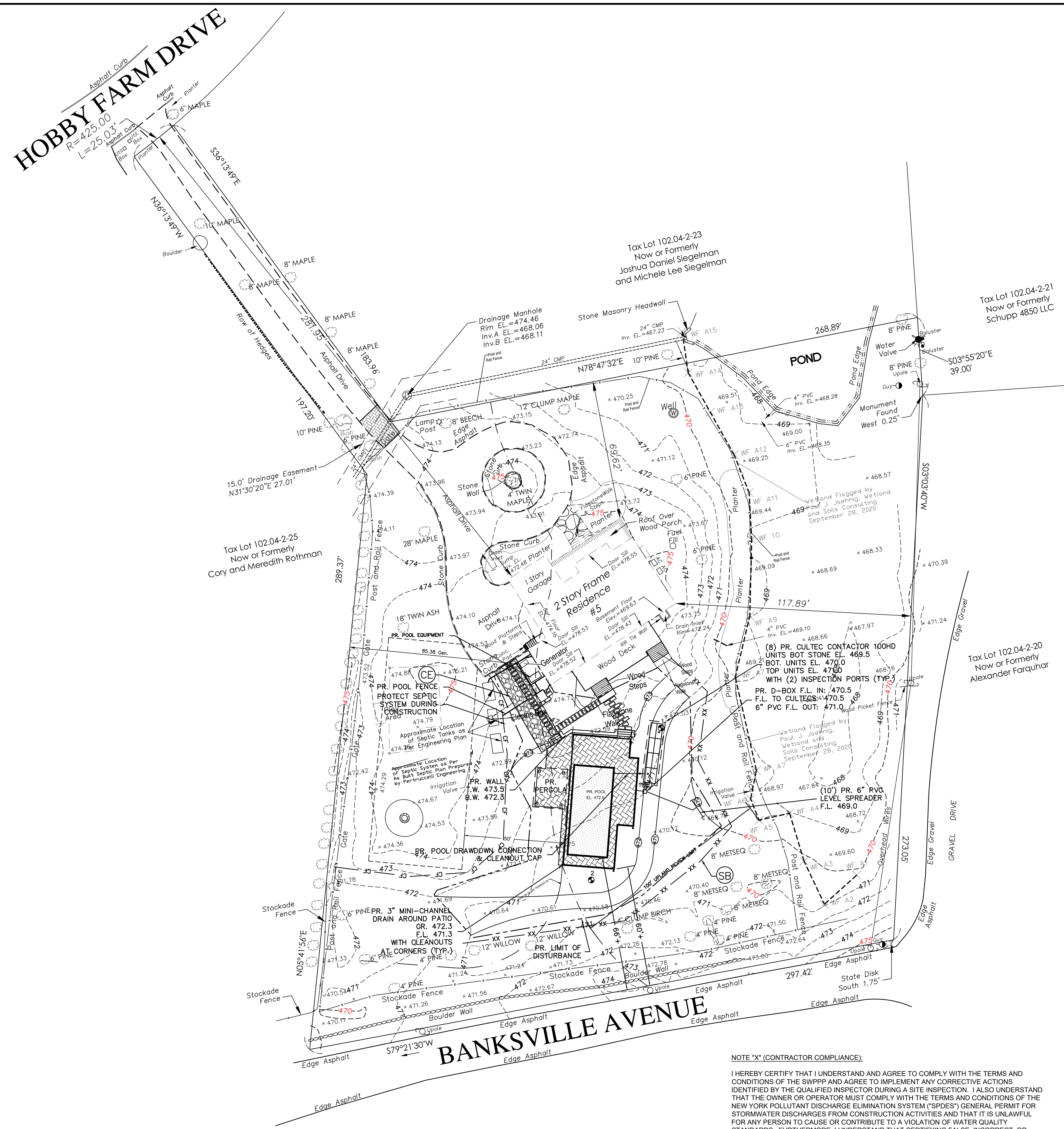
5 Hobby Farm Drive

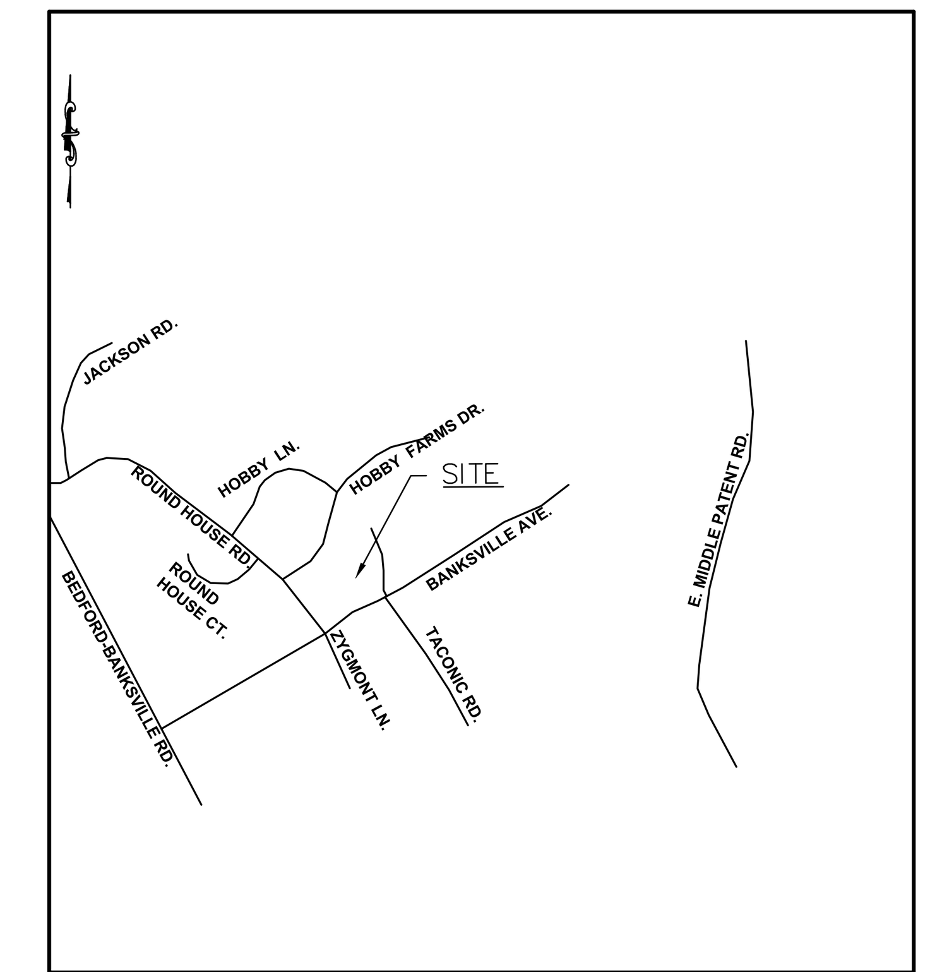
PRINTS NOT VALID WITHOUT ORIGINAL SIGNATURE & SEAL.

LEGEND:—

A/C	AIR CONDITIONER
B.C.	BOTTOM OF CURB
BOT.	BOTTOM
F.L.	FLOW LINE
EL.	ELEVATION
EX.	EXISTING
HP	HIGH POINT
T.B.R.	TO BE REMOVED
PR.	PROPOSED
S.M.H.	SEWER MAN HOLE
TYP.	TYPICAL
DMH	DRAIN MANHOLE
Y.D.	YARD DRAIN
V.I.F.	VERIFY IN FIELD

—— RL ——	ROOF LEADER
—— FD ——	FOOTING DRAIN
	STONE WALL
11	EX. CONTOUR LINE
(11)	PR. CONTOUR LINE
x 10.8	EX. SPOT ELEVATION
(x 10.8)	PR. SPOT ELEVATION
	TREE
	TREE T.B.R.
—— X ——	SEDIMENT BARRIER
—— CF ——	CONSTRUCTION FENCE
—— GAS ——	GAS LINE
—— OHW ——	OVERHEAD WIRES
—— W ——	WATER SUPPLY LINE





LOCATION MAP SCALE: 1"= 200'

ZONING ANALYSIS

SECTION: 102.04 BLOCK: 2 LOT: 24

5 HOBBY FARM DR.	REQUIRED	EXISTING	PROPOSED
ZONE: R-1A LOT SIZE:	43,560 SF (1.0 AC.)	92,310 SF (2.119± AC.)	92,310 SF (2.119± AC.)
FRONT YARD:	50'	281.95'	281.95'
RIGHT SIDE:	25'	117.89'	117.89'
LEFT SIDE:	25'	85.38'+	83.38'
SIDE ON CORNER:			
REAR:	40'	150.8'	60'+
LOT COVERAGE BUILDING: IMPERVIOUS:	11,077 SF (12%)	4,366 SF (4.7%)	5,604 SF (6.07%)
GROSS LAND COVERAGE:	15,978.5 SF	12,260 SF	15,114 SF

CUT/FILL VOLUME ESTIMATES:

THE FOLLOWING QUANTITIES ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR CONSTRUCTION ESTIMATION.

ESTIMATED FILL VOLUME: 168 CY
ESTIMATED CUT VOLUME: 211.3 CY

NET CUT VOLUME: 43.3 CY±

DRAINAGE NOTES:

1. ALL PR. DRAIN PIPES SHALL BE 6" SDR-35 PVC ASTM D3034 WITH MINIMUM 1% PITCH UNLESS OTHERWISE NOTED.
2. POSITIVE PITCH SHALL BE MAINTAINED AWAY FROM THE HOUSE AND POOL AT ALL TIMES.
3. EX. ROOF LEADERS SHALL NOT TIE INTO PR. CULTEC SYSTEM.

GENERAL PROJECT NOTES:

1. THE TOWN ENGINEER AND BUILDING INSPECTOR MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES IF DEEMED APPROPRIATE TO MITIGATE UNFORESEEN SILTATION AND EROSION OF DISTURBED SOILS.
2. AS-BUILT DRAWINGS OF THE SITE IMPROVEMENTS SHALL BE SUBMITTED TO THE TOWN ENGINEER AND BUILDING INSPECTOR FOR REVIEW PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY.
3. PROPOSED SOIL SLOPES EXCEEDING 1 ON 2 SHALL REQUIRE APPROVAL OF THE BUILDING INSPECTOR.
4. APPROXIMATE LIMIT OF DISTURBANCE =11,000 SQ. FT.± DISTURBANCE LIMITS SHALL BE STAKED IN THE FIELD PRIOR TO CONSTRUCTION.
5. ALL TREE STUMPS SHALL BE HAULED OFF-SITE AND LEGALLY DISPOSED OF AS SOON AS POSSIBLE. THERE SHALL BE NO BURYING OF REFUSE OR DEBRIS ON-SITE.
6. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR(S) AND SUBCONTRACTOR(S) THAT WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE STORMWATER PRACTICES MUST BE IDENTIFIED. EACH OF THE CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED MUST INCLUDE AT LEAST ONE "TRAINED INDIVIDUAL" THAT WILL BE ONSITE ON A DAILY BASIS WHEN SOIL DISTURBANCE ACTIVITIES ARE BEING PERFORMED.
7. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED SHALL SIGN NOTE "X".
8. NO TOWN-REGULATED TREES ARE PROPOSED TO BE REMOVED AS A RESULT OF THIS PROPOSAL.

STATE OF NEW YORK
ROBERT MICHAEL FRANGIONE JR
079261-1
LICENSED PROFESSIONAL ENGINEER

SURVEYOR'S NOTES:

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAWS.

POSSESSION ONLY WHERE INDICATED.

ADJACENT PROPERTY LINES AND EASEMENTS NOT SURVEYED OR CERTIFIED. ACCESS TO ADJACENT RIGHTS OF WAY, EASEMENTS AND PUBLIC OR PRIVATE LANDS NOT GUARANTEED OR CERTIFIED.

THE ELEVATIONS SHOWN HEREON GENERALLY IN ACCORDANCE WITH "NAVD 88", (NORTH AMERICAN VERTICAL DATUM 1988).

UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND SHOULD BE VERIFIED BEFORE EXCAVATING. ADDITIONAL UNDERGROUND UTILITIES ARE NOT SHOWN OR CERTIFIED. ENCROACHMENTS AND STRUCTURES BELOW GRADE, IF ANY, NOT SHOWN OR CERTIFIED.

SUBJECT TO COVENANTS, EASEMENTS, RESTRICTIONS, CONDITIONS AND AGREEMENTS OF RECORD.

THIS MAP IS PREPARED TO SHOW TOPOGRAPHY ONLY AND IS NOT TO BE USED FOR TITLE TRANSFER PURPOSES. MAP MAY NOT BE CERTIFIED TO TITLE COMPANIES AND/OR BANKS.

TREE SPECIES SHOWN HEREON TO BE VERIFIED BY A LICENSED ARBORIST AND ARE NOT CERTIFIED BY SURVEYOR.

PREMISES HEREON BEING LOT 15-24 AS SHOWN ON A CERTAIN MAP ENTITLED, "SUBDIVISION MAP OF NORTHBROOK KNOLL IN THE TOWN OF NORTH CASTLE, WESTCHESTER COUNTY, NEW YORK." SAID MAP FILED IN WESTCHESTER COUNTY CLERK'S OFFICE, DIVISION OF LAND RECORDS JULY 27, 1988 AS MAP NUMBER 23331.

BURIED UTILITIES (GAS, WATER) SHOWN HEREON ARE BASED ON SURFACE INDICATIONS AND ARE APPROXIMATE ONLY.

ORIGINAL TOPOGRAPHIC INFORMATION OBTAINED FROM SURVEY PREPARED BY TC MERRITS LAND SURVEYORS, 394 BEDFORD ROAD, PLEASANTVILLE, NY 10570 ENTITLED "TOPOGRAPHY OF PROPERTY PREPARED FOR ROBERT SILPE - SITUATE IN THE TOWN OF NORTH CASTLE, WESTCHESTER COUNTY, NEW YORK ", LAST REVISED OCTOBER 1, 2020. SURVEYOR'S NOTES SHOWN HEREON TAKEN FROM SAID SURVEY. FRANGIONE ENGINEERING, LLC TAKES NO RESPONSIBILITY FOR THE ACCURACY OF THE ORIGINAL SURVEY INFORMATION.

UTILITY NOTE:

Underground utilities, facilities and structures have been plotted from surface indications and record sources. The locations of all underground utilities are approximate only. Additionally, there may be other underground utilities the existence of which is presently unknown. Any party utilizing the utility information and data depicted on this survey shall call "DIG SAFELY NEW YORK" at 811 a minimum of forty eight (48) hours prior to any construction activities to verify the location of underground utilities.

POOL DRAWDOWN VOLUME CALCULATION:

AREA OF PR. POOL = 900 SF

DRAWDOWN VOLUME = 900 SF X 6" /12 IN./FT. = 450 CF

CULTEC UNIT VOLUME = 8 UNITS X 28.81 CF/UNIT = 230.5 CF

DRAWNDOWN WILL TAKE PLACE OVER TWO (2) DAYS.

TOTAL LOT AREA = 2.1192 AC. +/-
(92,310 SQ. FT.)
ZONE IS "R-1A"

NOTE "X" (CONTRACTOR COMPLIANCE):

I HEREBY CERTIFY THAT I UNDERSTAND AND AGREE TO COMPLY WITH THE TERMS AND CONDITIONS OF THE SWPPP AND AGREE TO IMPLEMENT ANY CORRECTIVE ACTIONS IDENTIFIED BY THE QUALIFIED INSPECTOR DURING A SITE INSPECTION. I ALSO UNDERSTAND THAT THE OWNER OR OPERATOR MUST COMPLY WITH THE TERMS AND CONDITIONS OF THE NEW YORK POLLUTANT DISCHARGE ELIMINATION SYSTEM ("SPDES") GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES AND THAT IT IS UNLAWFUL FOR ANY PERSON TO CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS. FURTHERMORE, I UNDERSTAND THAT CERTIFYING FALSE, INCORRECT, OR INACCURATE INFORMATION IS A VIOLATION OF THE REFERENCE PERMIT AND THE LAWS OF THE STATE OF NEW YORK AND COULD SUBJECT ME TO CRIMINAL, CIVIL, AND/OR ADMINISTRATIVE PROCEEDINGS.

NAME	SIGNATURE	DATE

OWNER/APPLICANT:
ROBERT SILPE
5 HOBBY FARM DRIVE
BEDFORD, NY 10506

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS ENGINEERING DOCUMENT IS A VIOLATION OF TITLE VIII, ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

No	DATE	DESCRIPTION	DWG	

REVISIONS

PROJECT

PROPOSED SITE PLAN PREPARED FOR
ROBERT SILPE
5 HOBBY FARM DRIVE
BEDFORD NEW YORK

DRAWING NAME

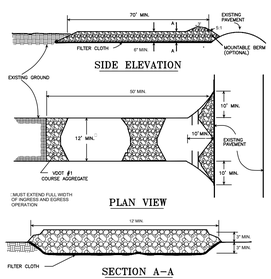
OVERALL SITE PLAN

SCALE 1" = 30'	MUNICIPALITY NORTH CASTLE	SHEET No
DATE NOVEMBER 2, 2020	SHEET 1 OF 2	S1
DRAWN R.M.F.	SEC. 102.04 BLOCK 2	
	LOT 24	

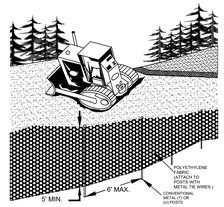
FILE NAME:
Z:\BEDFORD, NY\SILPE 5 HOBBY FARM DR\SILPE 5 HOBBY FARM SITE.DWG

FRANGIONE ENGINEERING, LLC
CIVIL ENGINEERING
STRUCTURAL ENGINEERING
LAND DEVELOPMENT
15 SNOWBERRY LANE
NEW CANAAN, CT 06840
(203) 554-9551 (PHONE)
(203) 966-6957 (FAX)

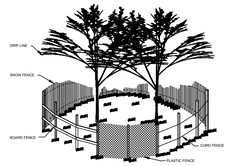
PRINTS NOT VALID WITHOUT ORIGINAL SIGNATURE & SEAL.



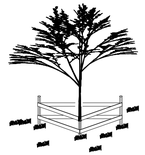
CE **CONSTRUCTION ENTRANCE**
NO SCALE



CF **SAFETY FENCE**
NO SCALE

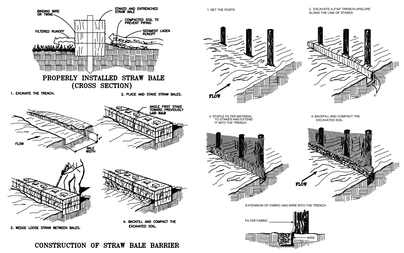


CORRECT METHODS OF TREE FENCING



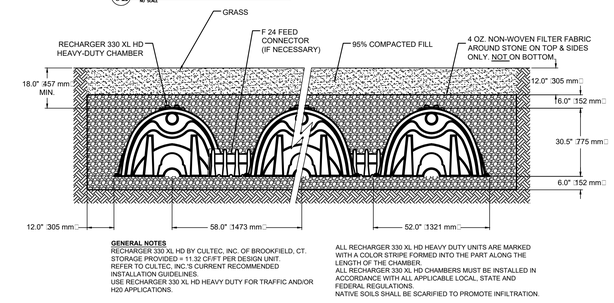
TRIANGULAR BOARD FENCE

TP **TREE PROTECTION**
NO SCALE



CONSTRUCTION OF STRAW BALE BARRIER

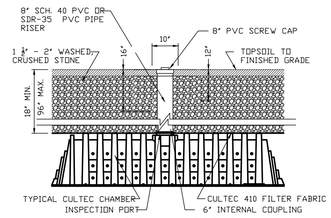
SB **SEDIMENT BARRIER**
NO SCALE



GENERAL NOTES
RECHARGER 330 XL HD BY CULTEC, INC. OF BROOKFIELD, CT.
STORAGE PROVIDED = 11.32 CF/FT PER DESIGN UNIT.
REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
USE RECHARGER 330 XL HD HEAVY DUTY FOR TRAFFIC AND/OR H20 APPLICATIONS.

ALL RECHARGER 330 XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
ALL RECHARGER 330 XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
NATIVE SOILS SHALL BE SCARIFIED TO PROMOTE INFILTRATION.

RECHARGER 330XL - H-20 LOADING UNPAVED
NOT TO SCALE

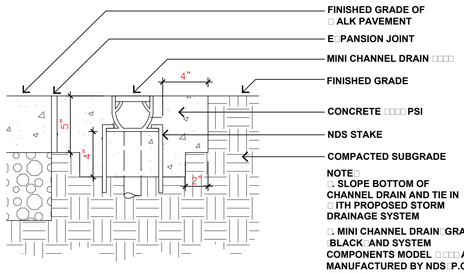


TYPICAL INSPECTION PORT DETAIL
NO SCALE

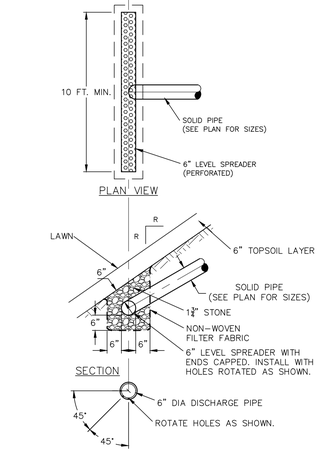
INSTALLATION NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

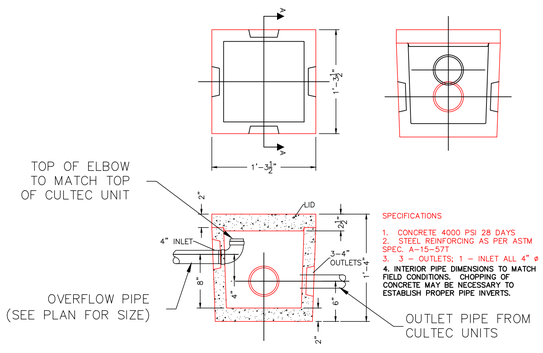
TEMPORARY STOCKPILE DETAIL
NOT TO SCALE



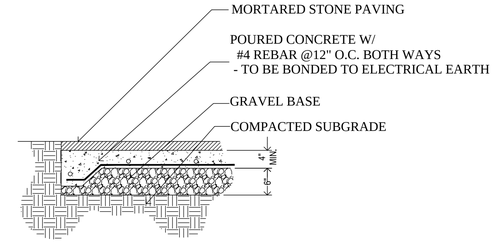
5 MINI CHANNEL DRAIN
SCALE = N.T.S.



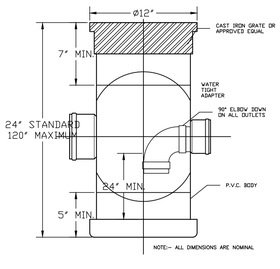
10 FT LEVEL SPREADER
NO SCALE



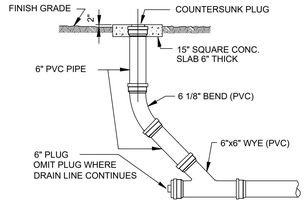
OVERFLOW D-BOX FOR DRAINAGE
NO SCALE



PATIO DETAIL
NO SCALE



12" YARD DRAIN WITH OUTLET TRAP
NO SCALE



CLEANOUT
NO SCALE

GENERAL SEDIMENTATION AND EROSION CONTROL NOTES

1. A SEDIMENT BARRIER WILL BE ERECTED AROUND THE DOWNSLOPE PERIMETER OF ALL CONSTRUCTION ACTIVITIES. IN ADDITION TO THOSE SHOWN ON THE PLAN, ADDITIONAL CONTROLS WILL BE INSTALLED AS DEEMED NECESSARY BY THE GENERAL CONTRACTOR IN RESPONSE TO SITE CONDITIONS.
2. CUT AND/OR FILL SLOPES OF GREATER THAN 2 ON 1 REMAINING IN ROUGH GRADE WILL BE MULCHED AND SEEDED.
3. THE AMOUNT OF NATURAL VEGETATION REMOVED WILL BE MINIMIZED. ALL DISTURBED AREAS NOT SCHEDULED FOR CONSTRUCTION WITHIN 60 DAYS WILL BE MULCHED WITH UNROTTED STRAW OR HAY AND SEEDED. MULCH WILL BE APPLIED AT 90 LBS. PER 1000 SQ. FT.
4. ALL STOCKPILES LEFT FOR MORE THAN 1 MONTH WILL BE RINGED WITH SEDIMENT BARRIERS.
5. AT LEAST 50 FEET OF SILT FENCE AND/OR 50 FT. OF HAYBALES WILL BE STOCKPILED ON SITE FOR EMERGENCY USE.
6. SEDIMENT REMOVED FROM CONTROL STRUCTURES WILL BE PLACED IN AN APPROVED UPLAND SITE, A SUFFICIENT DISTANCE FROM ALL CONTROLLED ENVIRONMENTS.
7. UPON FINAL GRADING THE OPEN SOIL HORIZONS ARE TO BE IMMEDIATELY PLACED IN SEED. OPTIMUM SUCCESS IN ESTABLISHING PLANTS ON SLOPES IS ACHIEVED WHERE SLOPE ANGLES DO NOT EXCEED 3 HORIZONTAL TO ONE VERTICAL. THESE SOILS SHOULD NOT CONTAIN GREATER THAN 85% CLAY.
8. CONSTRUCTION ENVELOPES ARE TO BE DELINEATED WITH HIGH VISIBILITY BARRICADE TAPE, SNOW FENCE OR PLASTIC NETTING.
9. TREES IN A CLOSE PROXIMITY TO CONSTRUCTION ACTIVITIES ARE TO BE PROTECTED WITH SNOW FENCE OR A COMPARABLE BARRIER PLACED AT THE DRIPLINE.
10. METHODS FOR PROPER DESIGN AND INSTALLATION OF CONTROL MEASURES MAY BE FOUND IN THE NEW YORK STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
11. UTILITY TRENCHES ARE TO BE COMPLETED, SEEDED AND MULCHED WITHIN 15 DAYS AFTER BACKFILL.
12. ANY DISTURBED AREA NOT PAVED, SEEDED OR BUILT UPON BY NOVEMBER 1ST IS TO BE SEEDED ON THAT DATE WITH OATS, ABRUZZI RYE, OR EQUIVALENT AND MULCHED WITH HAY OR STRAW.
13. DRAINAGE OUTLETS ARE TO BE PROTECTED WITH SPLASH GUARDS OR STONE AND/OR LEVEL SPREADERS.
14. ALL EROSION CONTROL DEVICES SHALL BE INSPECTED (AND REPAIRED IF NECESSARY) EVERY TWO WEEKS AND/OR AFTER EVERY RAIN STORM OF 0.5" OR GREATER.

PROJECT NOTES

1. ALL SEDIMENTATION AND EROSION CONTROLS ARE TO BE INSTALLED PRIOR TO START OF DEMOLITION AND CONSTRUCTION.
2. MACHINERY ACCESS WILL BE VIA THE EXISTING DRIVEWAY.
3. ALL FILL & EXCAVATION WILL BE LIMITED TO PROPOSED ACTIVITIES.
4. PROPOSED ACTIVITIES ARE GENERALLY SITED WHERE CONCEPTUALLY APPROVED.

GENERAL CONSTRUCTION SEQUENCE

1. EMPLACEMENT OF THE SEDIMENTATION & EROSION CONTROLS - NOTE MULTIPLE ROWS OF SILT FENCE TO COORDINATE WITH SEPARATE AREAS OF SITE DISTURBANCE;
2. DELINEATION OF THE CONSTRUCTION ENVELOPES WITH HIGH-VISIBILITY BARRICADE TAPE OR SNOW FENCE;
3. CLEARING WITHIN THE AREA FOR THE PROPOSED ACTIVITY;
4. TOPSOIL REMOVAL AND STOCKPILING IN STABILIZED AREA, STABILIZED WITH MULCH AND/OR RINGED WITH SEDIMENT BARRIER;
5. EXCAVATION FOR CULTEC UNITS;
6. CULTEC UNIT AND OVERFLOW STRUCTURE INSTALLATION;
7. EXCAVATE FOR POOL AND RETAINING WALLS;
8. POOL, WALL AND PATIO CONSTRUCTION;
9. FINAL DRAINAGE CONNECTIONS;
10. FINAL GRADING & LANDSCAPING.
11. CONSTRUCTION PHASES WILL OCCUR SIMULTANEOUSLY AS LONG AS THE SITE IS STABLE AND EROSION CONTROLS ARE FUNCTIONING.

POST-CONSTRUCTION MAINTENANCE PROCEDURES:

1. CLEAN DRIVEWAY SURFACE AND ROOF GUTTERS 2 X PER YEAR - SPRING & FALL - TO REMOVE SEDIMENT AND ORGANIC DEBRIS ON THE DRIVEWAY SURFACE VIA A BROOM AND TARPAULIN, AND FROM THE GUTTERS BY HAND.

2. INSPECT CATCH BASINS, YARD DRAINS, CULTEC INSPECTION PORTS, CLEANOUTS, AND OUTLETS 4 X PER YEAR TO ENSURE THAT THEY ARE NOT BLOCKED.

3. REMOVE DEBRIS IF BLOCKED FROM ANY OF THE ABOVE-REFERENCED ITEMS.

Soil Data	DEEP TEST ⊕ PERCOLATION TEST ◑		10/19/2020
Soil Type \ Hole #		1	2
TOPSOIL		0-12"	0-8"
ORANGE BROWN SILTY LOAM		12"-36"	
DARK GRAY MOTTLED SANDY SILT		36"-43"	
MOTTLED GRAY HARDPAN		43"-60"	
GRAY MOTTLED SANDY SILT			8"-56"
MOTTLES/RESTRICTIVE		36"	8"
AGW		-	-
LEDGE		-	-
ROOTS		-	-
INFILTRATION RATE		1.25 in./hr.	
5 HOBBY FARM DRIVE			

No	DATE	DESCRIPTION	DWG

REVISIONS

PROJECT

PROPOSED SITE PLAN PREPARED FOR ROBERT SILPE

5 HOBBY FARM DRIVE

BEDFORD NEW YORK

DRAWING NAME

DETAILS & NOTES

FRANGIONE ENGINEERING, LLC
CIVIL ENGINEERING
STRUCTURAL ENGINEERING
LAND DEVELOPMENT
15 SNOWBERRY LANE
NEW CANAAN, CT 06840
(203) 554-9551 (PHONE)
(203) 966-6957 (FAX)

SCALE	AS NOTED
DATE	NOVEMBER 2, 2020
DRAWN	R.M.F.
MUNICIPALITY	NORTH CASTLE
	SHEET 2 OF 2
	SEC. 102.04 BLOCK 2
	LOT 24

SHEET No **S2**

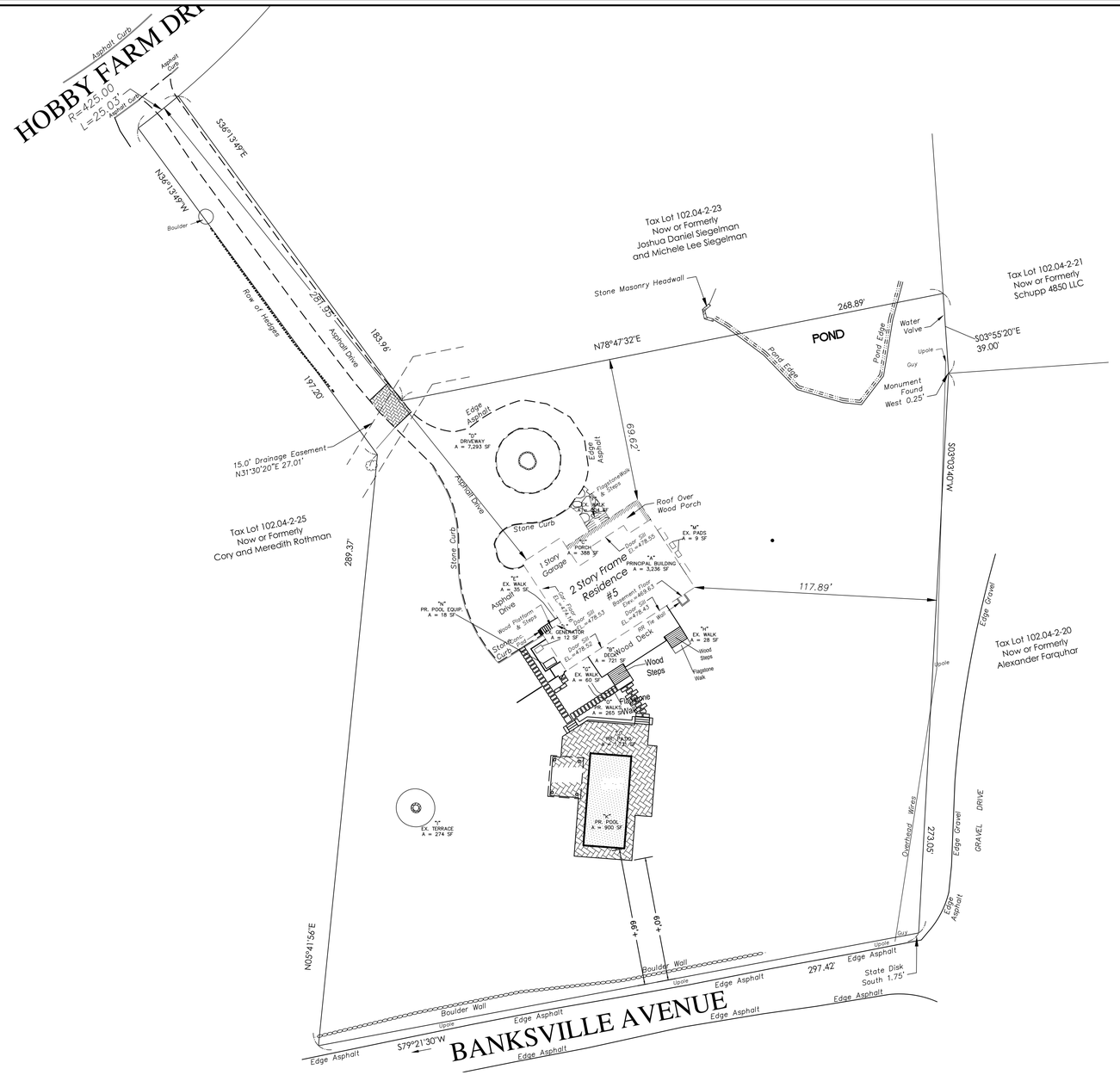
FILE NAME: Z:\BEDFORD, NY\SILPE 5 HOBBY FARM DR\SILPE 5 HOBBY FARM SITE.DWG

PRINTS NOT VALID WITHOUT ORIGINAL SIGNATURE & SEAL.

LEGEND: –

A/C	AIR CONDITIONER
B.C.	BOTTOM OF CURB
BOT.	BOTTOM
F.L.	FLOW LINE
EL.	ELEVATION
EX.	EXISTING
HP	HIGH POINT
T.B.R.	TO BE REMOVED
PR.	PROPOSED
S.M.H.	SEWER MAN HOLE
TYP.	TYPICAL
DMH	DRAIN MANHOLE
Y.D.	YARD DRAIN
V.I.F.	VERIFY IN FIELD

RL — ROOF LEADER
FD — FOOTING DRAIN
STONE WALL
11 — EX. CONTOUR LINE
(11) — PR. CONTOUR LINE
x 10.8 — EX. SPOT ELEVATION
(x 10.8) — PR. SPOT ELEVATION
TREE
TREE T.B.R.
X — SEDIMENT BARRIER
CF — CONSTRUCTION FENCE
GAS — GAS LINE
OHW — OVERHEAD WIRES
W — WATER SUPPLY LINE



GROSS LAND COVERAGE CALCULATIONS WORKSHEET		
SEGMENT ID	Existing	Proposed
	(SF)	(SF)
A	3,236	3,236
B	721	721
C	388	388
D	7,293	7,293
E	35	35
F	204	204
G	60	
H	28	28
I	274	274
J		1,731
K		900
L	12	12
M	9	9
N		18
O		265
TOTAL (SF)	12,260	15,114

ORIGINAL TOPOGRAPHIC INFORMATION OBTAINED FROM SURVEY PREPARED BY TC MERRITS LAND SURVEYORS, 394 BEDFORD ROAD, PLEASANTVILLE, NY 10570 ENTITLED "TOPOGRAPHY OF PROPERTY PREPARED FOR ROBERT SILPE - SITUATE IN THE TOWN OF NORTH CASTLE, WESTCHESTER COUNTY, NEW YORK ", LAST REVISED OCTOBER 1, 2020. SURVEYOR'S NOTES SHOWN HEREON TAKEN FROM SAID SURVEY. FRANGIONE ENGINEERING, LLC TAKES NO RESPONSIBILITY FOR THE ACCURACY OF THE ORIGINAL SURVEY INFORMATION.

UTILITY NOTE:

Underground utilities, facilities and structures have been plotted from surface indications and record sources. The locations of all underground utilities are approximate only. Additionally, there may be other underground utilities the existence of which is presently unknown. Any party utilizing the utility information and data depicted on this survey shall call "DIG SAFELY NEW YORK" at 811 a minimum of forty eight (48) hours prior to any construction activities to verify the location of underground utilities.

TOTAL LOT AREA = 2.1192 AC. +/-
(92,310 SQ. FT.)
ZONE IS "R-1A"

OWNER/APPLICANT:
ROBERT SILPE
5 HOBBY FARM DRIVE
BEDFORD, NY 10506

STATE OF NEW YORK
MICHAEL FRANGIONE JR.
076201-1
LICENSED PROFESSIONAL ENGINEER

No	DATE	DESCRIPTION	DWG	
		REVISIONS		

PROJECT

LAND COVERAGE PLAN PREPARED FOR ROBERT SILPE

5 HOBBY FARM DRIVE

BEDFORD NEW YORK

DRAWING NAME

LAND COVERAGE WORKSHEET

FRANGIONE ENGINEERING, LLC
CIVIL ENGINEERING
STRUCTURAL ENGINEERING
LAND DEVELOPMENT
15 SNOWBERRY LANE
NEW CANAAN, CT 06840
(203) 554-9551 (PHONE)
(203) 966-6957 (FAX)

SCALE:	1" = 30'	MUNICIPALITY: NORTH CASTLE
DATE	NOVEMBER 2, 2020	SHEET 1 OF 1
DRAWN	R.M.F.	SEC. 102.04 BLOCK 2
		LOT 24
FILE NAME:	Z:\BEDFORD, NY\SILPE 5 HOBBY FARM DR\SILPE 5 HOBBY FARM SITE.DWG	

SHEET No **L1**

TOWN OF NORTH CASTLE

WESTCHESTER COUNTY
17 Bedford Road
Armonk, New York 10504-1898

PLANNING DEPARTMENT
Adam R. Kaufman, AICP
Director of Planning

Telephone: (914) 273-3542
Fax: (914) 273-3554
www.northcastleny.com

GROSS LAND COVERAGE CALCULATIONS WORKSHEET

Application Name or Identifying Title: Silpe Date: 11/4/2020

Tax Map Designation or Proposed Lot No.: Sec. 102.04, Block 2, Lot 24

Gross Lot Coverage

1.	Total lot Area (Net Lot Area for Lots Created After 12/13/06):	92,310 SF
2.	**Maximum** permitted gross land coverage (per Section 355-26.C(1)(b)):	13,659 SF
3.	**BONUS** maximum gross land cover (per Section 355-26.C(1)(b)):	
	Distance principal home is beyond minimum front yard setback 231.95 x 10 =	2,319.5 SF
4.	**TOTAL Maximum Permitted gross land coverage** = Sum of lines 2 and 3	15,978.5 SF
5.	Amount of lot area covered by **principal building:** 3,236 existing + 0 proposed =	3,236 SF
6.	Amount of lot area covered by **accessory buildings:** 0 existing + 0 proposed =	0
7.	Amount of lot area covered by **decks:** 721 existing + 0 proposed =	721 SF
8.	Amount of lot area covered by **porches:** 388 SF existing + 0 proposed =	388 SF
9.	Amount of lot area covered by **driveway, parking areas and walkways:** 7,620 existing + 205 SF proposed =	7,825 SF
10.	Amount of lot area covered by **terraces:** 274 existing + 1731 proposed =	2,005 SF
11.	Amount of lot area covered by **tennis court, pool and mechanical equip:** 21 existing + 918 proposed =	939 SF
12.	Amount of lot area covered by **all other structures:** 0 existing + 0 proposed =	0 SF
13. Proposed	**gross land coverage:** Total of Lines 5 – 12 =	15,114 SF

If Line 13 is less than or eq ual to Line 4, your proposal **complies** with the Town's maximum gross land coverage regulations and the project may proceed to the Residential Project Review Committee for review. If Line 13 is greater than Line 4 your proposal does not comply with the Town's regulations.

STATE OF NEW YORK ROBERT MICHAEL FRANGIONE JR 079261 LICENSED PROFESSIONAL ENGINEER

Signature and Seal of Professional Preparing Worksheet

11/5/2020
Date

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information

Name of Action or Project:
Silpe

Project Location (describe, and attach a location map):
5 Hobby Farm Drive, Bedford, NY 10506

Brief Description of Proposed Action:
Proposed pool, patio, pergola, and stormwater detention system with associated grading

Name of Applicant or Sponsor:	Telephone: 917-364-4948
Robert Silpe	E-Mail: robert.silpe@gmail.com

Address:
5 Hobby Farm Drive

City/PO:	State:	Zip Code:
Bedford	NY	10506

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: Residential Project Review Committee, Conservation Board	☐	☑

3. a. Total acreage of the site of the proposed action? 2.1192 acres
   b. Total acreage to be physically disturbed? 0.25 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 2.1192 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:

5. ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☑ Residential (suburban)
   ☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other(Specify):
   ☐ Parkland

	NO	YES	N/A
5. Is the proposed action,			
a. A permitted use under the zoning regulations?	☐	☑	☐
b. Consistent with the adopted comprehensive plan?	☐	☑	☐

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	☑

	NO	YES
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		
If Yes, identify: _____	☑	☐

	NO	YES
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation services available at or near the site of the proposed action?	☑	☐
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	☑	☐

	NO	YES
9. Does the proposed action meet or exceed the state energy code requirements?		
If the proposed action will exceed requirements, describe design features and technologies: _____ _____	☐	☑

	NO	YES
10. Will the proposed action connect to an existing public/private water supply?		
If No, describe method for providing potable water: _____ _____	☐	☑

	NO	YES
11. Will the proposed action connect to existing wastewater utilities?		
If No, describe method for providing wastewater treatment: _____ _____	☐	☑

	NO	YES
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	☑	☐
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	☑	☐

	NO	YES
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☐	☑
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	☑	☐
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____		

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☐ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-successional

☐ Wetland ☐ Urban ☑ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	☑	☐
16. Is the project site located in the 100-year flood plan?	☑	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources?	☐	☑
If Yes,		
a. Will storm water discharges flow to adjacent properties?	☐	☑
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	☑	☐
If Yes, briefly describe:		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?	☐	☑
If Yes, explain the purpose and size of the impoundment: Eight (8) proposed Cultec Contactor units will detain 230.5 CF of storm water stormwater runoff on-site		
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?	☑	☐
If Yes, describe:		
20.Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?	☑	☐
If Yes, describe:		

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

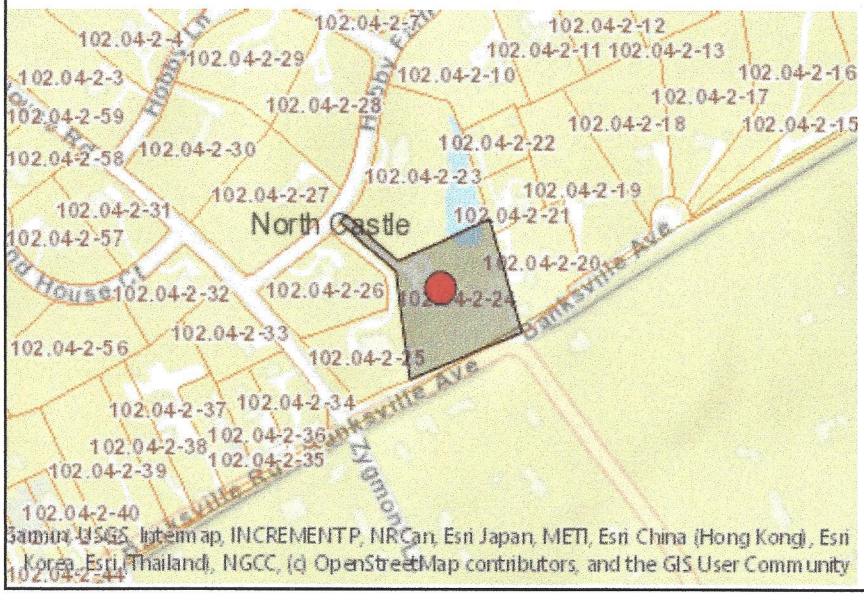
Applicant/sponsor/name: Frangione Engineering, LLC - Rob Frangione, P.E. Date: November 5, 2020

Signature: _____ Title: Owner & Chief Engineer

PRINT FORM

EAF Mapper Summary Report

Thursday, November 5, 2020 4:24 PM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	No
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	No

Frangione Engineering, LLC
15 Snowberry Lane
New Canaan, CT 06840
Phone: 203.554.9551
Fax: 203.966.6957
Web: www.frangione.net

Drainage Summary Report
Property of Robert Silpe – 5 Hobby Farm Drive, Bedford, NY

The owners propose constructing a pool and patio on their property on Hobby Farm Drive. The site presently consists of a residence, patios, walkways and driveway. The proposed improvements to the 2.1192-acre site site will create approximately 2,800 SF of new impervious area. This report will show that the runoff from the pool patio can be routed through underground storage structures and will not have an adverse impact on downslope properties or drainage facilities.

Presently runoff from the site flows generally from west to northeast across the property towards and on-site wetland and pond. Runoff from the existing house, driveway and all other impervious surfaces flows unabated across the site and towards the wetlands. The proposed construction will not alter the existing drainage paths onto or off of this site.

Our office has analyzed the runoff rates generated by the 1-, 2-, 5-, 10- and 25-Year, 24-Hour Storm for the site. The property has been identified as "Site" in the enclosed existing conditions analysis. Under proposed conditions, the proposed pool and patio area has been included in the "Pool and Patio" sub-catchment, while the remainder of the site has been included in the "Site" sub-catchment. Using the Soil Conservation Service TR-20 Method, the runoff rates were calculated for the pre- and post-development conditions from the site including the new proposals. Table I below summarizes the existing and proposed runoff rates for the design storms.

Table I – Summary of Runoff Rates from Site

Storm Event	Flow	Existing	Proposed	Δ	Δ(%)
1-Year	q (cfs)	2.49	2.42	-0.07	-2.81%
2-Year	q (cfs)	3.23	3.17	-0.06	-1.86%
5-Year	q (cfs)	4.60	4.59	-0.01	-0.22%
10-Year	q (cfs)	5.84	5.82	-0.02	-0.34%
25-Year	q (cfs)	7.87	7.83	-0.04	-0.51%

The runoff rates for the storms depicted in Table I are the result of detaining runoff from the pool and patio in eight (8) Cultec Contactor 100HD units with a storage volume of 230.5 CF. Once the Cultec units fill up they will overflow via a level spreader in the side yard. Soil testing performed on the site shows that the Cultec units will be set in the better-draining soils compared to the rest of the parcel. The remainder of the site

will continue to allow runoff to flow along existing drainage paths. Please refer to the enclosed calculations for further information.

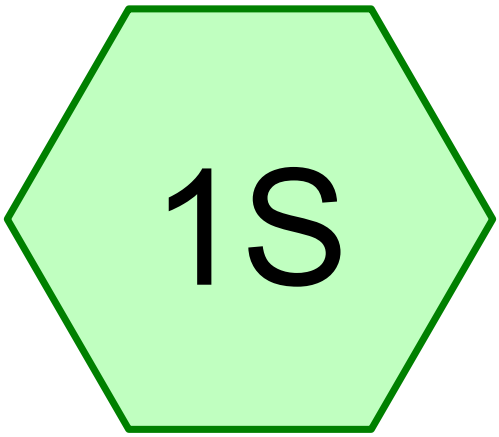
With these drainage structures in place, it is our professional opinion that there will be no adverse hydrological or hydraulic impacts caused to surrounding or downstream properties or drainage facilities by this development. Under the New York State Department of Environmental Conservation (NYSDEC) regulations, a Notice of Intent (NOI) is not required for this project because the amount of on-site disturbance is less than one (1) acre. To the best of my knowledge, this drainage proposal complies with the NYSDEC Stormwater Regulations.

Respectfully submitted,

Frangione Engineering, LLC

Robert M. Frangione, P.E.
Owner & Chief Engineer
November 5, 2020

Enclosures



Site

Subcat Reach Pond Link

Routing Diagram for Silpe Existing Drainage
Prepared by Microsoft, Printed 11/2/2020

Events for Subcatchment 1S: Site

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)
1-Year	2.90	2.49	10,993
2-Year	3.40	3.23	14,189
5-Year	4.30	4.60	20,220
10-Year	5.10	5.84	25,780
25-Year	**6.40**	**7.87**	**35,065**

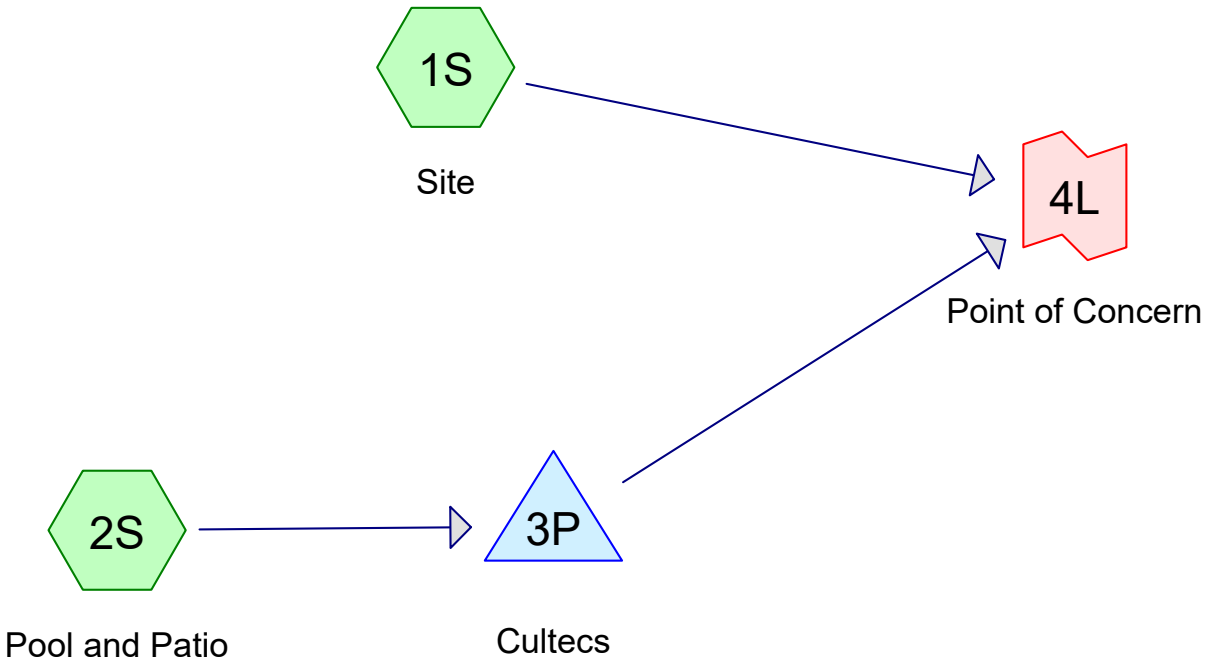
Summary for Subcatchment 1S: Site

Runoff = 7.87 cfs @ 12.24 hrs, Volume= 35,065 cf, Depth> 4.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.03 hrs
Type III 24-hr 25-Year Rainfall=6.40"

	Area (sf)	CN	Description
*	3,236	98	Ex. House
*	8,060	98	Ex. Drive
*	327	98	Ex. Walks
*	721	98	Ex. Deck
*	388	98	Ex. Porch
*	21	98	Ex. Pads
*	274	98	Ex. Patio
*	22,339	89	<50% Grass cover, Poor, HSG D (wetlands)
	2,886	61	>75% Grass cover, Good, HSG B
	54,058	80	>75% Grass cover, Good, HSG D
	92,310	84	Weighted Average
	79,283		85.89% Pervious Area
	13,027		14.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	97	0.0120	0.10		**Sheet Flow, Sheet** Grass: Dense n= 0.240 P2= 3.50"
1.7	258	0.0239	2.49		**Shallow Concentrated Flow, Shallow Concentrated** Unpaved Kv= 16.1 fps
18.0	355	Total			



Subcat Reach Pond Link

Routing Diagram for Silpe Proposed Drainage
Prepared by Microsoft, Printed 11/5/2020

Events for Link 4L: Point of Concern

Event	Inflow (cfs)	Primary (cfs)	Volume (cubic-feet)
1-Year	2.42	2.42	10,690
2-Year	3.17	3.17	13,855
5-Year	4.59	4.59	19,831
10-Year	5.82	5.82	25,346
25-Year	**7.83**	**7.83**	**34,563**

Summary for Subcatchment 1S: Site

Runoff = 7.65 cfs @ 12.24 hrs, Volume= 34,066 cf, Depth> 4.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.03 hrs
Type III 24-hr 25-Year Rainfall=6.40"

	Area (sf)	CN	Description
*	3,236	98	Ex. House
*	7,293	98	Ex. Drive
*	532	98	Ex. & Pr. Walks
*	721	98	Ex. Deck
*	388	98	Ex. Porch
*	39	98	Ex. & Pr. Pads
*	274	98	Ex. Patio
*	22,339	89	<50% Grass cover, Poor, HSG D (wetlands)
	2,886	61	>75% Grass cover, Good, HSG B
	51,971	80	>75% Grass cover, Good, HSG D
	89,679	84	Weighted Average
	77,196		86.08% Pervious Area
	12,483		13.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	97	0.0120	0.10		**Sheet Flow, Sheet** Grass: Dense n= 0.240 P2= 3.50"
1.7	258	0.0239	2.49		**Shallow Concentrated Flow, Shallow Concentrated** Unpaved Kv= 16.1 fps
18.0	355	Total			

Summary for Subcatchment 2S: Pool and Patio

Runoff = 0.38 cfs @ 12.08 hrs, Volume= 1,350 cf, Depth> 6.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.03 hrs
Type III 24-hr 25-Year Rainfall=6.40"

	Area (sf)	CN	Description
*	900	98	Pr. Pool
*	1,731	98	Pr. Patio & Pergola
	2,631	98	Weighted Average
	2,631		100.00% Impervious Area

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

Summary for Pond 3P: Cultecs

Inflow Area = 2,631 sf,100.00% Impervious, Inflow Depth > 6.16" for 25-Year event
Inflow = 0.38 cfs @ 12.08 hrs, Volume= 1,350 cf
Outflow = 0.36 cfs @ 12.10 hrs, Volume= 1,317 cf, Atten= 4%, Lag= 1.2 min
Discarded = 0.02 cfs @ 12.10 hrs, Volume= 819 cf
Primary = 0.35 cfs @ 12.10 hrs, Volume= 498 cf

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.03 hrs / 2
Peak Elev= 471.39' @ 12.10 hrs Surf.Area= 260 sf Storage= 264 cf

Plug-Flow detention time= 98.0 min calculated for 1,317 cf (98% of inflow)
Center-of-Mass det. time= 82.3 min (826.0 - 743.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	469.50'	167 cf	**8.00'W x 32.50'L x 2.04'H Field A** 531 cf Overall - 114 cf Embedded = 417 cf x 40.0% Voids
#2A	470.00'	114 cf	**Cultec C-100HD** x 8 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 2 rows
		280 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	469.50'	**1.250 in/hr Exfiltration over Surface area** Conductivity to Groundwater Elevation = 468.00'
#2	Primary	471.00'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.02 cfs @ 12.10 hrs HW=471.38' (Free Discharge)
↑—**1=Exfiltration** (Controls 0.02 cfs)

Primary OutFlow Max=0.34 cfs @ 12.10 hrs HW=471.38' (Free Discharge)
↑—**2=Orifice/Grate** (Orifice Controls 0.34 cfs @ 2.11 fps)

Summary for Link 4L: Point of Concern

Inflow Area = 92,310 sf, 16.37% Impervious, Inflow Depth > 4.49" for 25-Year event
Inflow = 7.83 cfs @ 12.24 hrs, Volume= 34,563 cf
Primary = 7.83 cfs @ 12.24 hrs, Volume= 34,563 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.03 hrs

Hydrologic Soil Group—State of Connecticut, and Westchester County, New York
(5 Hobby Farm Soil Map)

Map Scale: 1:1,160 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 15 30 60 90

Feet
0 50 100 200 300

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

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A
A/D
B
B/D
C
C/D
D
Not rated or not available

Soil Rating Lines

A
A/D
B
B/D
C
C/D
D
Not rated or not available

Soil Rating Points

A
A/D
B
B/D
C
C/D
D
Not rated or not available

Water Features

Streams and Canals

Transportation

Rails
Interstate Highways
US Routes
Major Roads
Local Roads

Background

Aerial Photography

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
Survey Area Data: Version 20, Jun 9, 2020

Soil Survey Area: Westchester County, New York
Survey Area Data: Version 16, Jun 11, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

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

Date(s) aerial images were photographed: Dec 31, 2009—Oct 16, 2017

MAP LEGEND

MAP INFORMATION

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
2	Ridgebury fine sandy loam, 0 to 3 percent slopes	D	0.1	1.9%
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	D	0.1	2.5%
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes	C	0.0	0.4%
Subtotals for Soil Survey Area			**0.1**	**4.8%**
Totals for Area of Interest			**2.8**	**100.0%**

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CrC	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	B	0.3	12.1%
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	C	0.2	5.9%
RdB	Ridgebury complex, 3 to 8 percent slopes	D	1.4	48.3%
Sm	Sun loam, extremely stony	C/D	0.7	26.4%
W	Water		0.1	2.5%
Subtotals for Soil Survey Area			**2.7**	**95.2%**
Totals for Area of Interest			**2.8**	**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

www.turf-tec.com

Project Identification:		Silpe			Hole 1		
Test Location:		5 Hobby Farm Drive			Depth = 24"		
Liquid Used:		Water	**pH:**	7.0			
Tested By:		RMF					
Depth to water table:		>36"					
							Remarks
Trial #	**Start / End**	**Date MM/DD/YY**	**Time HR:MIN**	**Elapsed Time Chg/(Total) Min**	Gauge Depth, in.	**Inner Infiltration Rate in/Hr.**	**Weather conditions Etc...**
	Start Test	10/19/2020	12:57	0:15	0.13		
1	End Test	"	13:12	**0:15**	**0.75**	2.50	64 degrees & sunny
	Start Test	"	13:13	**0:15**	0.13		
2	End Test	"	1:28	**0:30**	**0.75**	2.50	
	Start Test	"	1:29	0:15	0.13		
3	End Test	"	1:44	**0:45**	**0.75**	2.50	
					Average	2.50	
					Design rate (50% Clog)	1.25	