

# TOWN OF MAMARONECK - VILLAGE OF LARCHMONT COASTAL ZONE MANAGEMENT COMMISSION Monday, February 24, 2020 7:30 PM, Mamaroneck Town Center, 1st Floor - Conference Room D, 740 W. Boston Post Road, Mamaroneck, NY 10543

# **Approval of Minutes**

1. Approval of Minutes - January 27, 2020

### **Agenda Items**

- 1. 251 Murray Avenue
- 2. 44 Edgewood Avenue Residential Site Plan
- 3. Judson Avenue

### **Old Business**

### **New Business**

### **Meeting Adjournment**

Any physically handicapped person needing special assistance in order to attend the meeting should call the Town Administrator's office at 381-7810.



# Town of Mamaroneck — Village of Larchmont

# COASTAL ZONE MANAGEMENT COMMISSION

TOWN CENTER: 740 West Boston Post Road, Mamaroneck, NY 10543-3353TEL: 914-381-7845FAX: 914-381-8473conservationdept@townofmamaroneck.org

# CZMC Minutes-Draft January 27, 2020

A meeting of the Coastal Zone Management Commission (CZMC) was held on Monday, January 27, 2020 in the Mamaroneck Town Center, Conference Room D, 1st Floor, 740 W. Boston Post Road, Mamaroneck, New York. The meeting was called to order at 7:30 p.m.

# **MEMBERS PRESENT:**

C. Alan Mason, Chairman Matthew Teitsch Robert Fletcher Kanan Sheth Sara Hanna

# **OTHERS PRESENT:**

Elizabeth Aitchison, Environmental Planner, Town of Mamaroneck Jaine Elkind Eney, Town Councilwoman, Liaison to CZMC Jeffrey M. Schwartz, Nautilus Diner, 1240 W. Boston Post Road Joseph Pajonas, 1 Spanish Cove Robert Keller, 1 Spanish Cove David Carlos, 1 Spanish Cove Jeremy Rainato, 14 Wildwood Circle & 220 Hommocks Road Benedict Salanitro, 14 Wildwood Circle & 220 Hommocks Road Martin Harwood, 220 Hommocks Road Azure Dee Sleicher, 220 Hommocks Road Christopher Eggers, 220 Hommocks Road Tim DeBartolomeo, 220 Hommocks Road Neil J. Alexander, 220 Hommocks Road Bryan Martin, 220 Hommocks Road

# 1. Approval of Minutes

The minutes of the October 28, 2019 meeting were approved as submitted.

# 2. Referral – Nautilus Diner, 1240 Boston Post Road, Site Plan Approval, Special Use Permit

Jeffrey Schwartz presented the application to legalize the site plan for the property as well as obtain a special use permit. The business has been in operation at the location for 22 years. Mr. Schwartz described the operation of the business as well as maintenance of the property including the collection of grease, solid waste, and litter from the site, extermination and the maintenance of the storm drains in the parking area. CZMC found

the operation of the Diner and the use of the property to be consistent with the policies in the Local Waterfront Revitalization Program (LWRP).

# 3. Referral – 1 Spanish Cove, Residential Site Plan Approval

Robert Keller and Joseph Pajonas presented the proposal to demolish the existing home and construct a new single family home on the property. The proposed home will be elevated above the base flood elevation by utilizing pilings. Insufficient engineering data was available to determine the number or depth of pilings required to support the structure and will have to be determined by the applicant as work on the design progresses. No infiltrators are proposed due to the shallow water table, so stormwater quality will be enhanced by utilizing 2 rain gardens. A view easement exists on the property which limits the available space for landscaping in the rear yard, therefore proposed planting will be concentrated along the side property lines. In addition, the landscaping plan includes a wood burning fire pit in the rear yard, which may not be permitted. Brush fires have occurred in the vicinity and an alternative to a wood fire pit should be required. With this amendment to the proposal, CZMC found the proposal to be consistent with the policies in the LWRP.

# 4. Referral – 14 Wildwood Circle, Residential Site Plan Approval/Wetlands and Watercourses Permit

Benedict Salanitro and Jeremy Rainato presented the proposal to replace the existing septic system located in the rear yard. The septic system is failing and no municipal sewers are available in the vicinity. The installation of a new system will require raising the grade by three feet in the rear yard but is not expected to impact the existing rain garden, which was installed several years ago to handle runoff from the pool area. The tidal wetlands are located along the Premium River and will be protected by the existing seawall and the installation of reinforced siltfence. In addition the applicant agreed to protect the stormwater inlet located in the driveway by using filter fabric. Overall, water quality will be improved by the installation of a new system which will utilize beneficial bacteria to digest nutrients. CZMC found the proposal to be consistent with the policies in the LWRP.

# 5. Referral – 220 Hommocks Road, Residential Site Plan Approval/Wetlands and Watercourses Permit

The applicant and a team of consultants presented the proposal for improvements to the property at 220 Hommocks Road. The improvements are to include repairs and modifications the sea wall, the construction of a HAR-TRU tennis court, swimming pool, accessory structures, a new septic system, a pier and floating dock, a gazebo, tree removal grading and landscaping. The existing house and garage will be repaired and renovated, but their footprints are expected to remain unchanged.

In addition to Town permits, the proposal requires permits from the New York State Department of Environmental Conservation (NYSDEC), the US Army Corps of Engineers (USACOE) and the Westchester County Department of Health. The applicant has been working with these agencies on these approvals. CZMC has been asked by the

NYS Department of State for a local consistency determination as a part of the requirements for the NYSDEC and USACOE approval process.

The applicant stated to CZMC that the project will be conducted in harmony with their surroundings, using best practices during construction to protect the surrounding wetlands, and will work on the seawall repairs in small sections to minimize disturbance. The proposed landscaping plan includes the removal of mature but invasive Norway maple trees and the planting of small native trees. Lighting will be done using low level, down lighting and the seawall will be repaired using stone to match the existing wall.

The applicant will provide to the Planning Board and the NYSDOS documentation on the existence of any underwater land grant, patent or deed allowing for the siting and construction of the pier and dock in the waters adjacent to the property. If allowed, the pier and dock will not be permitted to obstruct navigation. CZMC found the proposal to be consistent with the policies in the LWRP.

# 6. **Old Business**

No old business to discuss.

# 7. **New Business**

No new business to discuss.

The meeting was adjourned at 9:00 p.m.

# Town of Mamaroneck - Village of Larchmont Coastal Assessment Form (CAF)

Applicants, or the appropriate municipal agency, shall complete this Coastal Assessment Form (CAF) for proposed actions which are subject to Local Consistency Review (see Waterfront Revitalization Law §§234-1 through 234-5 in the Code of the Town of Mamaroneck and §§292-1 through 292-4 in the Code of the Village of Larchmont). This assessment is intended to supplement other information used by the Bi-Municipal Coastal Zone Management Commission in making a determination of consistency with the Town of Mamaroneck and Village of Larchmont Local Waterfront Revitalization Program.

Upon completion of this form, it should be submitted as part of a complete application package for review. If assistance or further information is required for Town of Mamaroneck matters, please contact the Town of Mamaroneck Environmental Planner at (914) 381-7845. For Village of Larchmont matters, please contact the Village of Larchmont Building Inspector at (914) 834-6210.

# PLEASE PRINT OR TYPE ALL ANSWERS.

### A. GENERAL INFORMATION

Will the proposed action be undertaken by a municipal agency?	Yes [	]	No [ 🖌 ]	
If yes, please list agency or agencies and contact person(s):				

If no, please complete	e the applicant information:		
Name of Applicant:	PDF02, LLC		
Street Address:	4 Edgehill Clse		
City, State, Zip:	Bronxville, NY 10708		
Phone: (917) - 450	- 0813 <sub>Fax:</sub>	Email: deo@brhld.com	2

### Location and ownership of property for which action is proposed:

Section: 1	Block: 13		Lot: <u>103</u>	
Owner of Property:	PDF02, LLC			
Street Address:	4 Edgehill Clse			
City, State, Zip:	Bronxville, NY 10708	~		
Phone: (917) - 450 -	- 0813 <sub>Fax:</sub>		Email: deo@brhld.com	

Size of property (square	feet): <u>10,938</u>	Is the property now developed?	Yes [ 🗸 ]	No [	]
Will project require a zo	0				
If yes, briefly describe:	Pending decision of t	he Building Inspector.		12	

Describe any unique/unusual landforms on the project site (rock outcroppings, swales, etc.): A rock outcropping is present within the front yard.

Percentage of site which	contains slopes of 25% or greater:	0%
0	1	

Are there streams, lakes, ponds or wetlands e	xisting within or contiguous to the project area?
If so, describe (name, size, characteristics):	No.

Will the action require approval by a state or federal agency? Yes [ ] No [ . ] If yes, specify which state or federal agency and attach a copy of pending application and any relevant information and/or documentation to this form:

# **B. DESCRIPTION OF SITE AND PROPOSED ACTION**

Provide a written description of the nature and the extent of the proposed action. Attach plans or additional information as necessary and/or required by application procedures.

The proposed action consists of additions and alterations to an existing single-family dwelling, driveway and patio along with the associated stormwater practice.

# **C. COASTAL ASSESSMENT**

Check either "Yes" or "No" for each of the following questions:

1. Will the proposed action be located in, or contiguous to, or have a **potentially adverse effect** upon any of the following designated resource areas?

		Y	es	No	Maybe
a.	Significant fish or wildlife habitat or designated critical environmental area	[	]	[ / ]	[ ]
b.	Scenic resources of local significance	[	]	[ 🗸 ]	[ ]
c.	Natural protective features in an erosion hazard area	[	]	[ / ]	[ ]

**NOTE:** If the answer to any of the above questions is "Yes", please explain in Section D any measures which will be undertaken to mitigate the adverse effects.

2. Will the proposed action have a significant effect upon:

۷.	win the proposed action have a significant effect upon.	Yes	No	Maybe
a.	Commercial or recreational use of fish and wildlife resources	[]	[ / ]	[]
b.	Scenic quality of the coastal environment		[ ]	[]
c.	Development of future, or existing water dependent uses	[ ]	[, ✓]	[ ]
d.	Land or water uses within a small harbor area		[ / ]	[ ]
e.	Stability of the shoreline	[ ]	[ / ]	[ ]
f.	Surface or groundwater quality		[ / ]	[ ]
g.	Existing or potential public recreation opportunities	[]	[ 🗸 ]	[ ]
h.	Structures, sites or districts of historic, archeological or cultural significance			
	to the local area, state or nation	[]	[ / ]	[]
3.	Will the proposed action involve or result in any of the following:			
5.	will the proposed action <b>myorye or result in</b> any of the following.	Yes	No	Maybe
a.	Physical alteration of land along the shoreline,			·
	land underwater or coastal waters	[ ]	[ 🗸 ]	[ ]
b.	Expansion of existing public services or infrastructure in or near			
	undeveloped or low density areas of the coastal area?	[]	[ 🖌 ]	[ ]
c.	Filling, dredging, excavation or mining in coastal waters	[]	[ / ]	[ ]
d.	Reduction of existing or potential public access to or along the shore		[ / ]	[ ]
e.	Development within a designated flood or erosion hazard area		[ / ]	[ ]
f.	Development of a natural feature that protects against flooding or erosion		[ 🖌 ]	[ ]
g.	Replacement of eroded sand or soil		[ / ]	[ ]
h.	Construction or reconstruction of erosion protective structures		[ / ]	[ ]
i.	Any change in surface or groundwater quality		[ / ]	[ ]
j.	Removal of trees from the site	[]	[ / ]	[]
4.	Project details:			
	-	Yes	No	Maybe
a.	If the project is to be located adjacent to the shore:			

	1 5 5				
1.	Does the project require a waterfront site in order to function	]	[ / ]	[	]
2.	Will water-related recreation be provided[	]	[ / ]	[	]
3.	Will public access to shore or state owned underwater lands be provided[	]	[ / ]	[	]
4.	Will it replace a recreational or maritime use	]	[ / ]	[	]
5.	Do essential public services and facilities presently exist at or near the site[	]	[ / ]	[	]

	<ul> <li>6. Is the site located near a flood prone area</li></ul>	[]	]	]
b.	Is the site presently used by the community as an open space or	[ < ]	L	1
	recreation area	[ 🗸 ]	[	]
с.	Does the project site offer or include scenic views/vistas known to be			
	important to the community or the state	[ / ]	[	]
d.	Will the surface area of any waterways or wetland areas be increased or			
	decreased by the project	[ 🗸 ]	[	]
e.	Will the project involve any waste discharges into coastal waters	[ / ]	[	]
f.	Does the project involve discharge of toxins, hazardous substances or other			
	pollutants into coastal waters[]	[ 🗸 ]	[	]
g.	Will the project affect any area designated as a tidal or freshwater wetland[]	[ 🗸 ]	[	]
h.	Will the project result in an alteration of drainage flow patterns or surface			
	water runoff on or from the site	[ / ]	[	]
i.	Will best management practices (BMPs) be utilized to control			
	stormwater runoff[ / ]	[]	[	]
j.	Will any aspect of the proposed project result in emissions which exceed			
	federal or state air quality standards or generate significant amounts of			
	nitrates or sulfates	[ • ]	[	]

# Please explain any of the above answers that may need further clarification in Section D.

# D. COMMENTS AND ADDITIONAL INFORMATION: (continue on back if necessary)

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D. COMMENTS AND ADDITIONAL INFORMATION: (continued)					
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	<u></u>				
		h.			

I certify that I am the above described applicant and that the information contained on this form and on the attached survey/site plan(s) is(are) accurate to the best of my knowledge.

Date: February 14th 2020

Signature of Applicant

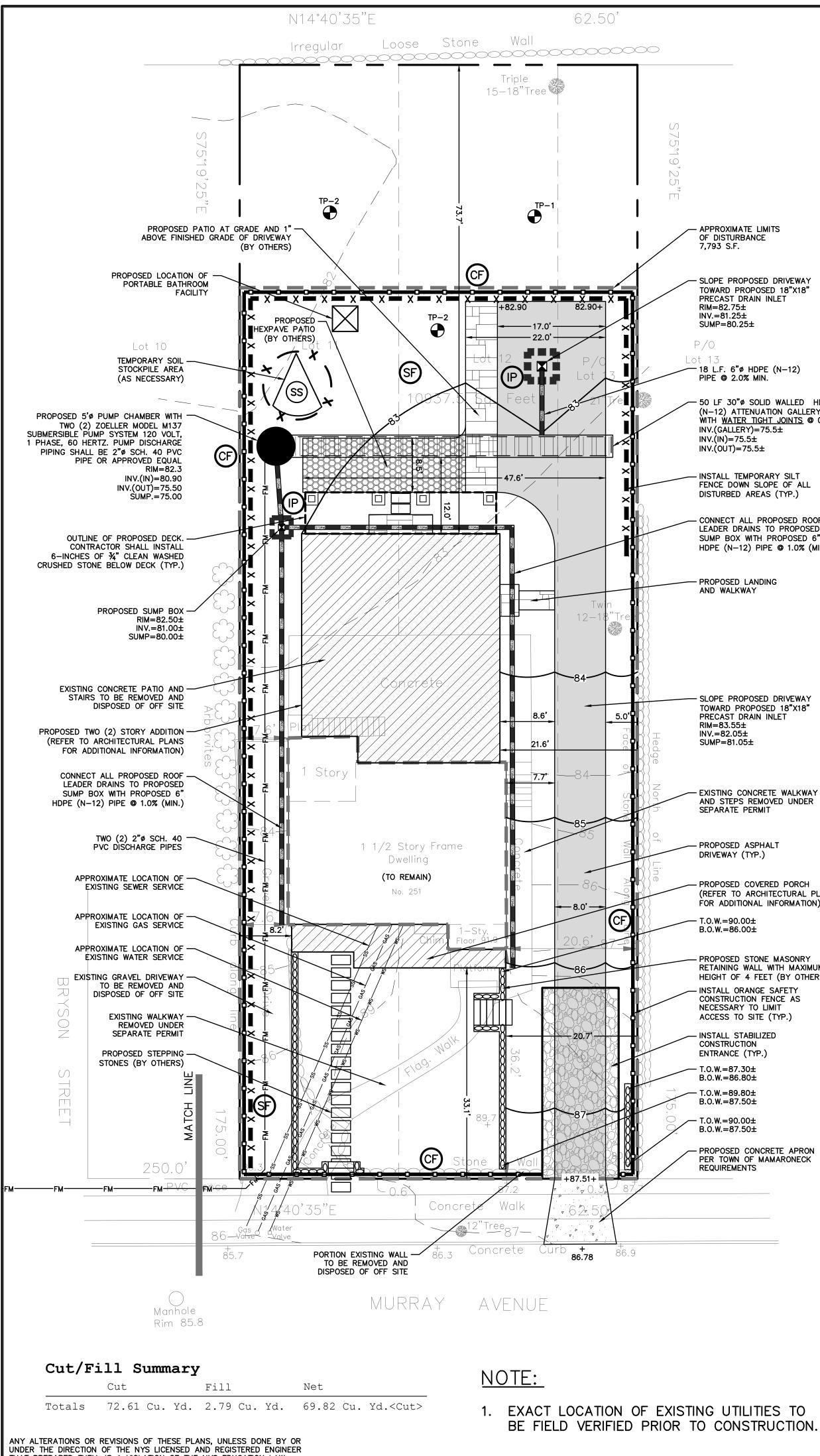
**Prepared by:** (if different than the applicant)

Name and Title:	Hudson Engineering & Consul	Ison Engineering & Consulting, P.C.			
Agency/Company: Hudson Engineering & Consulting, P.C.					
Street Address:	Address: 45 Knollwood Road				
City, State, Zip:	Elmsford, NY 10523				
Phone: (914) - 90	09 - 0420 <sub>Fax:</sub>	Email: Michael@Hudsonec.com			

I certify that I prepared this Coastal Assessment Form for the above described applicant and that the information contained on this form and on the attached survey/site plan(s) is(are) accurate to the best of my knowledge.

Date: February 14th 20 20

Signature of Preparer



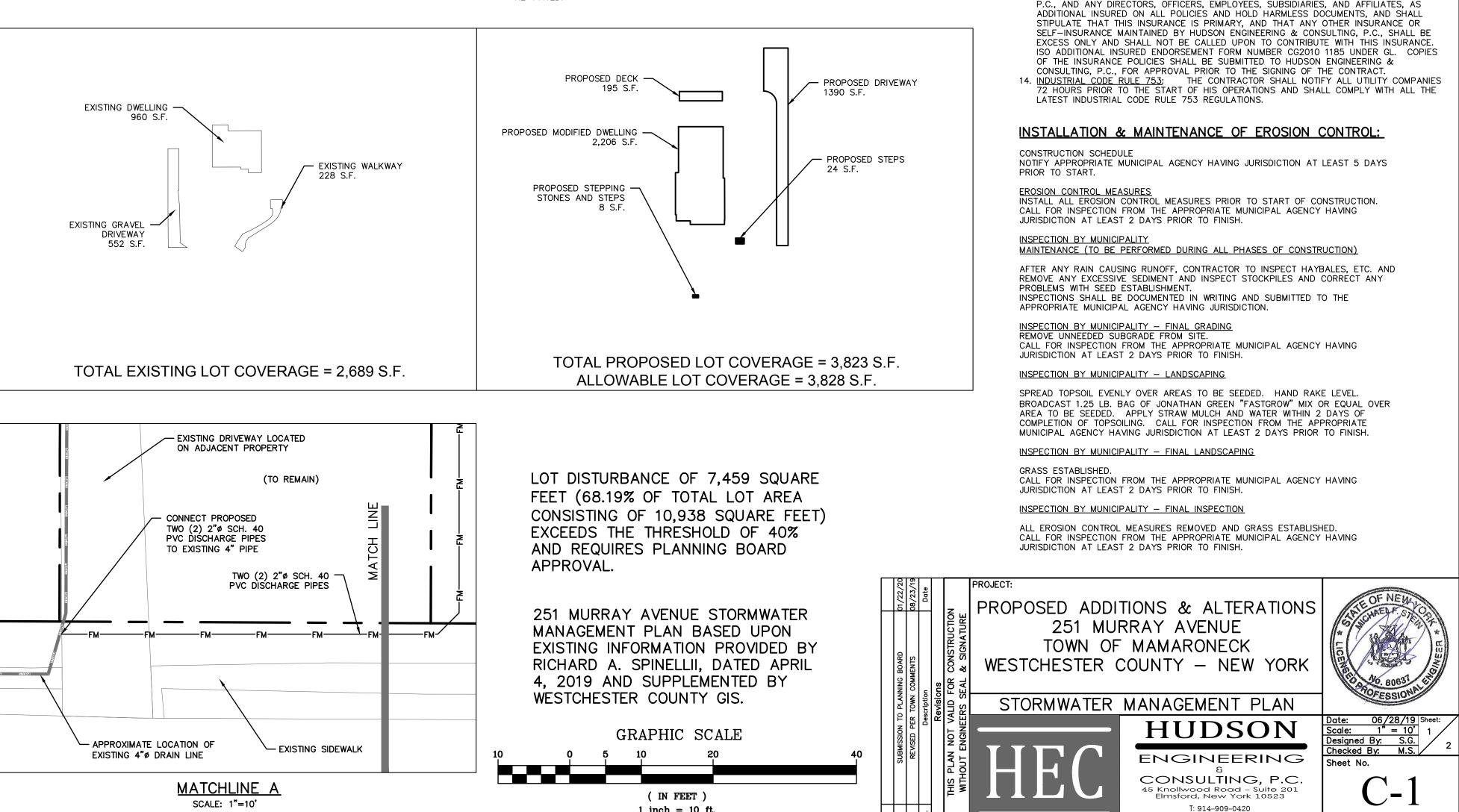
THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

MEASURE	DATES FOR INSPECTION	TIMING,
GENERAL MAINTENANCE (STORM SEWER, CATCH BASINS/ DRAIN INLETS, MANHOLES, PRE-TREATMENT DEVICE AND INFILTRATION BASIN)	ALL	ALL STOP COMPLETIC (3) MONT FIRST THR FOLLOWING OF RAIN ( AS DESCI IMMEDIATE AREAS E) RESTORED ON THE A UPON EAC TO, TWIGS OVERFLOW STRUCTUR
SUMPS – CATCH BASIN/DRAIN INLETS AND DRAIN MANHOLES	UPON <u>COMPLETION OF</u> <u>CONSTRUCTION:</u> -ONCE A MONTH FOR THE FIRST THREE (3) MONTHS <u>AFTER FIRST</u> <u>THREE (3)</u> <u>MONTHS</u> : -EVERY FOUR (4) MONTHS THEREAFTER	ALL CATC BEEN DES INFILTRATIO REQUIRE ADEQUATE DULY AUT SUMP DEF IF SEDIME SUMP, AL CAN BE R THE USE ROADWAY
SUBSURFACE ATTENUATION GALLERY	UPON COMPLETION OF CONSTRUCTION: -IMMEDIATELY AFTER CONSTRUCTION -EVERY SIX (6) MONTHS THEREAFTER (SPRING & FALL)	GALLERY DURING DI AN AVERA WATER JE VACUUMEL TO DETER

# NOTES:

- 1. ALL SOIL STOCKPILES SHALL BE A MINIMUM OF 5' FROM ALL ADJACENT PROPERTIES.

- CONSTRUCTION.
- CONDITIONS AT THE COMPLETION OF CONSTRUCTION.
- 375 STANDARDS.
- EXISTING SIDEWALK AND TOWN CURB. CONSTRUCTION
- THE TOWN ENGINEER.
- RF-PAVFD.



1 inch = 10 ft.

TOWARD PROPOSED 18"X18" PRECAST DRAIN INLET

- 18 L.F. 6"ø HDPE (N-12)

- 50 LF 30"ø SOLID WALLED HDPE (N-12) ATTENUATION GALLERY WITH WATER TIGHT JOINTS @ 0.0%  $INV.(GALLERY) = 75.5 \pm$ 

- INSTALL TEMPORARY SILT FENCE DOWN SLOPE OF ALL DISTURBED AREAS (TYP.)

CONNECT ALL PROPOSED ROOF LEADER DRAINS TO PROPOSED SUMP BOX WITH PROPOSED 6" HDPE (N-12) PIPE @ 1.0% (MIN.)

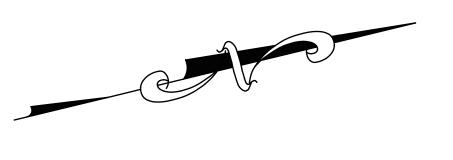
SLOPE PROPOSED DRIVEWAY TOWARD PROPOSED 18"X18" PRECAST DRAIN INLET

EXISTING CONCRETE WALKWAY AND STEPS REMOVED UNDER

PROPOSED COVERED PORCH (REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION)

PROPOSED STONE MASONRY RETAINING WALL WITH MAXIMUM HEIGHT OF 4 FEET (BY OTHERS) INSTALL ORANGE SAFETY CONSTRUCTION FENCE AS NECESSARY TO LIMIT ACCESS TO SITE (TYP.)

PROPOSED CONCRETE APRON PER TOWN OF MAMARONECK



LEGEND PROPERTY LINE \_\_\_\_\_ PROPOSED ASPHALT PROPOSED STONE MASONRY WALL PROPOSED SPOT +526.25 STORM PIPE PROPOSED DRAIN 

TEMPORARY INLET PROTECTION

DRIVEWAY

PROPOSED

PROPOSED

CONTOUR

GRADE

INLET

FENCE TEMPORARY

TEMPORARY SILT

CONSTRUCTION FENCE

TEMPORARY SOIL

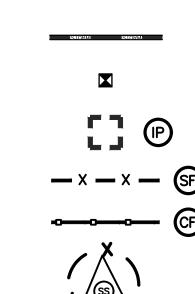
STOCKPILE AREA

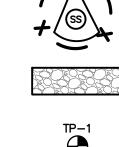
STABILIZED CONSTRUCTION

ENTRANCE TEST PIT

LOCATION

PROPOSED LIMIT OF DISTURBANCE





DEPTH - 78" 0-6" TOPSOIL 6-42" DARK BROWN CLAY LOAM 42–78" GRAY CLAY GROUNDWATER @ 42" NO LEDGE ROCK

TEST HOLE #1

TEST HOLE DATA:

PERFORMED IN THIS LOCATION TEST HOLE #2 DEPTH - 105"

0-6" TOPSOIL 6-28" DARK BROWN CLAY LOAM 28-96" DARK BROWN CLAY GROUNDWATER @ 28"

PERFORMED IN THIS LOCATION

0-6" TOPSOIL 6-30" DARK BROWN CLAY LOAM 30-105" GRAY CLAY GROUNDWATER @ 30" NO LEDGE NO PERCOLATION TESTING WAS PERFORMED IN THIS LOCATION

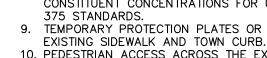
# TEST HOLE #3 DEPTH – 96"

NO LEDGE NO PERCOLATION TESTING WAS

NO PERCOLATION TESTING WAS

INSTALLED TO THE SATISFACTION OF THE TOWN OF MAMARONECK. STRUCTURES PRIOR TO BACKFILL.

# DISTURBANCE IS PLANNED WITHIN 14 DAYS.



# STORMWATER MANAGEMENT FACILITIES MAINTENANCE PROGRAM

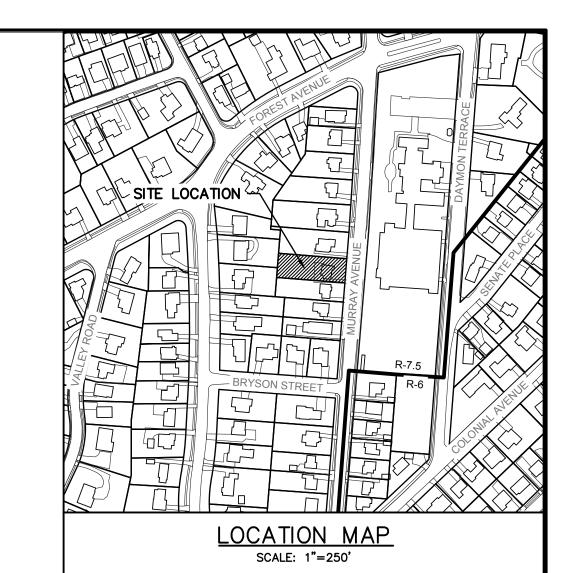
ACTIVITY, AND LOCATION RMWATER FACILITIES SHALL BE INSPECTED IMMEDIATELY AFTER ON OF CONSTRUCTION, AND THEN MONTHLY FOR THE FIRST THREE THS FOLLOWING THE COMPLETION OF THE PROJECT. WITHIN THE REE (3) MONTHS, INSPECTIONS SHALL IMMEDIATELY BE PERFORMED G A LARGE STORM EVENT (I.E. PRODUCING 1/2" (ONE-HALF INCH) OR GREATER. THEREAFTER, THESE FACILITIES SHALL BE INSPECTED RIBED AS FOLLOWS. UPON INSPECTION, FACILITIES SHALL B LY MAINTAINED AND/OR CLEANED AS MAY BE REQUIRED. ANY SIT XHIBITING SOIL EROSION OF ANY KIND SHALL BE IMMEDIATELY AND STABILIZED WITH VEGETATION, MULCH OR STONE, DEPENDING AREA TO BE STABILIZED. ACH INSPECTION, ALL VISIBLE DEBRIS INCLUDING, BUT NOT LIMITED S, LEAF AND FOREST LITTER SHALL BE REMOVED FROM THE BASIN, DISCHARGE POINTS AND FRAMES AND GRATES OF DRAINAGE CH BASIN/DRAIN INLETS AND DRAIN MANHOLES WITH SUMPS HAVE SIGNED TO TRAP SEDIMENT PRIOR TO ITS TRANSPORT TO THE ION PRACTICE AND, ULTIMATELY, DOWNSTREAM. THESE SUMPS WIL PERIODIC INSPECTION AND MAINTENANCE TO ENSURE THAT DEPTH IS MAINTAINED WITHIN THE SUMPS. THE OWNER, OR THEIF THORIZED REPRESENTATIVE, SHALL TAKE MEASUREMENTS OF THE ENT HAS ACCUMULATED TO 1/2 (ONE—HALF) THE DEPTH OF THE . SEDIMENT SHALL BE REMÓVED FROM THE SUMP. SEDIMENTS REMOVED WITH HAND-LABOR OR WITH A VACUUM TRUCK. OF ROAD SALT SHALL BE MINIMIZED FOR MAINTENANCE OF AND DRIVEWAY AREAS.

SHALL BE INSPECTED FOR EXCESS SEDIMENT ACCUMULATION. DRY WEATHER CONDITIONS, WHEN SEDIMENT HAS ACCUMULATED TO AGE DEPTH EXCEEDING 3" (THREE INCHES), THE GALLERY SHALL BE TTED CLEAN, AND ALL ACCUMULATED SEDIMENTS SHALL BE D OUT OR REMOVED MANUALLY. A STADIA ROD MAY BE INSERTED RMINE THE DEPTH OF THE SEDIMENT.

2. ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH CHAPTER 5 SOIL RESTORATION STANDARDS AS OUTLINED IN THE NYSDEC STORMWATER MANAGEMENT DESIGN MANUAL. 3. THE PROPOSED DETENTION PRACTICE AND STORMWATER STRUCTURES SHALL BE CONSTRUCTED AND 4. THE TOWN OF MAMARONECK SHALL BE CONTACTED TO INSPECT THE DETENTION PRACTICE AND

5. ALL DISTURBED SOILS SHALL RECEIVE TEMPORARY STABILIZATION/FINAL RESTORATION WHEN NO FURTHER 6. ALL DISTURBED AREAS SHALL BE RESTORED TO MATCH EXISTING GRADES AT THE COMPLETION OF 7. SURFACE GRADING, EXCEPT WHERE NOTED TO BE MODIFIED, MUST BE RESTORED TO MATCH EXISTING

8. ALL IMPORTED CONSTRUCTION FILL AND AGGREGATES SHALL BE CLEAN AND CONFORM WITH SOIL CONSTITUENT CONCENTRATIONS FOR UNRESTRICTED USE AS SPECIFIED BY THE NYSDEC DER-10 AND PART 9. TEMPORARY PROTECTION PLATES OR ALTERNATIVE PROTECTIVE MEASURES SHALL BE INSTALLED OVER THE 10. PEDESTRIAN ACCESS ACROSS THE EXISTING SIDEWALK MUST BE MAINTAINED AT ALL TIMES DURING 11. NO DISCHARGE OF EXCAVATION DE-WATERING SHALL BE UNDERTAKEN WITHOUT PRIOR APPROVAL FROM 12. NEIGHBORING PROPERTY OWNER SHALL BE NOTIFIED A MINIMUM OF THREE DAYS IN ADVANCED OF CONSTRUCTION. ADDITIONALLY, PLATES SHALL BE KEPT ON SITE FOR EMERGENCY DRIVEWAY ACCESS DURING CONSTRUCTION. PLATES SHALL BE PLACED OVER TRENCH POST BACKFILL UNTIL THE TRENCH IS

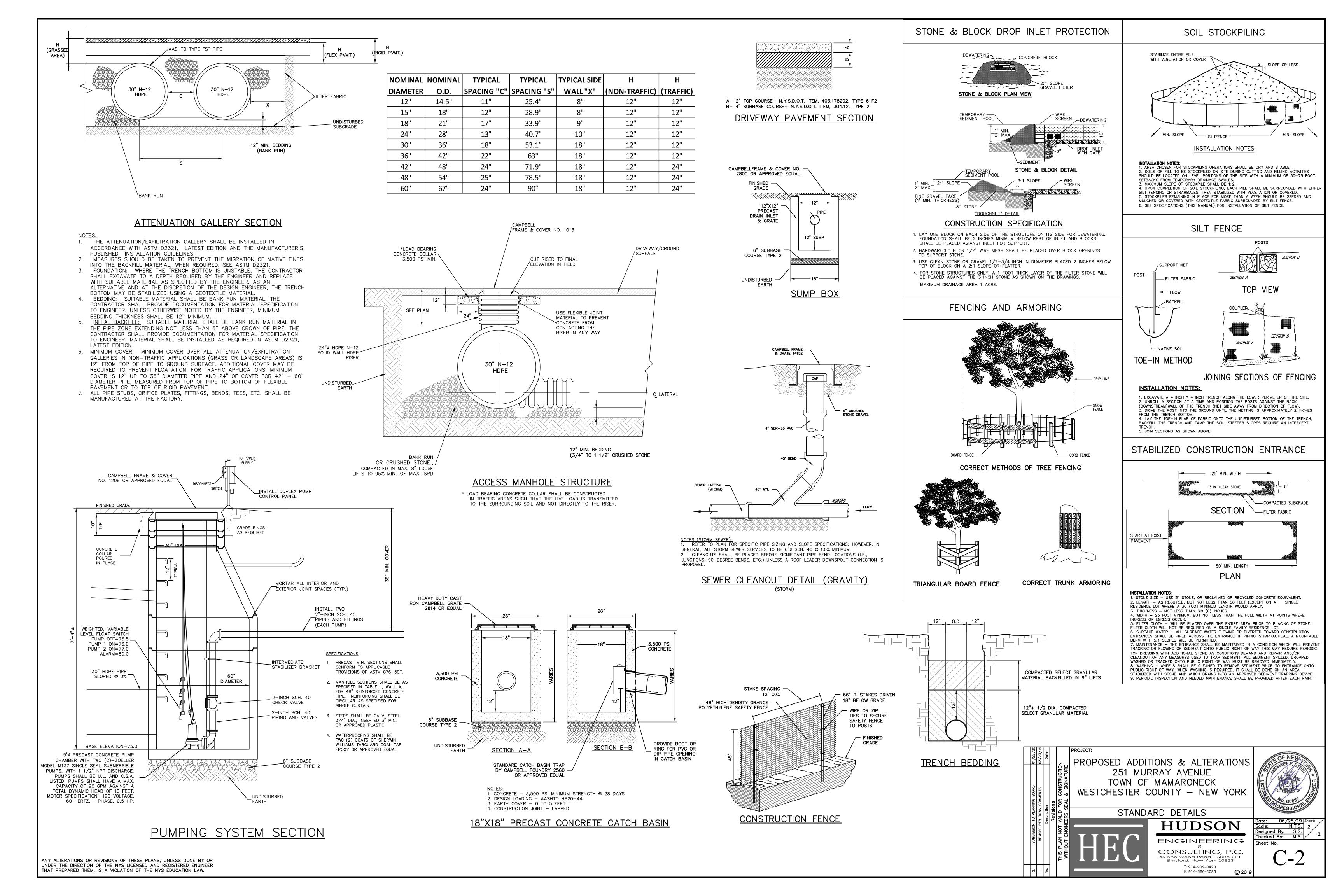


# **GENERAL NOTES:**

- . THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE SUPERVISION OF THE CONSTRUCTION. NO CHANGES SHALL BE MADE TO THESE PLANS EXCEPT AS PER NYS LAW CHAPTER 987. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO ACI, AISC, ZONING, AND THE NEW YORK STATE BUILDING CODE.
- 4. ALL CONDITIONS, LOCATIONS AND DIMENSIONS SHALL BE FIELD VERIFIED AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES.
- 5. ALL CHANGES MADE TO THE PLANS SHALL BE APPROVED BY THE ENGINEER AND ANY SUCH CHANGES SHALL BE FILED AS AMENDMENTS TO THE ORIGINAL BUILDING PERMIT. 6. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL
- PORTIONS OF THE WORK UNDER THE CONTRACT. 7. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND OTHER
- PERSONS PERFORMING ANY OF THE WORK UNDER A CONTACT WITH THE CONTRACTOR. 8. SAFETY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL AGENCIES IN EFFECT DURING THE PERIOD OF CONSTRUCTION.
- 9. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL MAKE APPLICATION TO RECEIVE ALL NECESSARY PERMITS TO PERFORM THE WORK UNDER CONTRACT. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL BE LICENSED TO DO ALL WORK AS REQUIRED BY THE LOCAL. COUNTY, AND STATE AGENCIES WHICH MAY HAVE JURISDICTION OVER THOSE TRADES, AND SHALL PRESENT THE OWNER WITH COPIES OF ALL LICENSES AND INSURANCE CERTIFICATES.
- 10. FINAL GRADING AROUND THE BUILDING AREA SHALL SLOPE AWAY FROM THE STRUCTURE. 11. ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS 12. ADJOINING PUBLIC AND PRIVATE PROPERTY SHALL BE PROTECTED FROM DAMAGE DURING
- CONSTRUCTION, REMODELING AND DEMOLITION WORK. PROTECTION MUST BE PROVIDED FOR FOOTINGS, FOUNDATIONS, PARTY WALLS, CHIMNEYS, SKYLIGHTS AND ROOFS. PROVISIONS SHALL BE MADE TO CONTROL WATER RUNOFF AND EROSION DURING CONSTRUCTION OR DEMOLITION ACTIVITIES. THE PERSON MAKING OR CAUSING AN EXCAVATION TO BE MADE SHALL PROVIDE WRITTEN NOTICE TO THE OWNERS OF ADJOINING BUILDINGS ADVISING THEM THAT THE EXCAVATION IS TO BE MADE AND THAT THE
- ADJOINING BUILDING SHOULD BE PROTECTED. SAID NOTIFICATION SHALL BE DELIVERED NOT LESS THAN 10 DAYS PRIOR TO THE SCHEDULED STARTING DATE OF THE EXCAVATION. 13. OWNER SHALL INSURE THAT THE INSURANCE PROVIDED BY THE CONTRACTOR HIRED TO PERFORM THE WORK SHALL BE ENDORSED TO NAME HUDSON ENGINEERING & CONSULTING, P.C., AND ANY DIRECTORS, OFFICERS, EMPLOYEES, SUBSIDIARIES, AND AFFILIATES, AS

F: 914–560–2086

© 2019



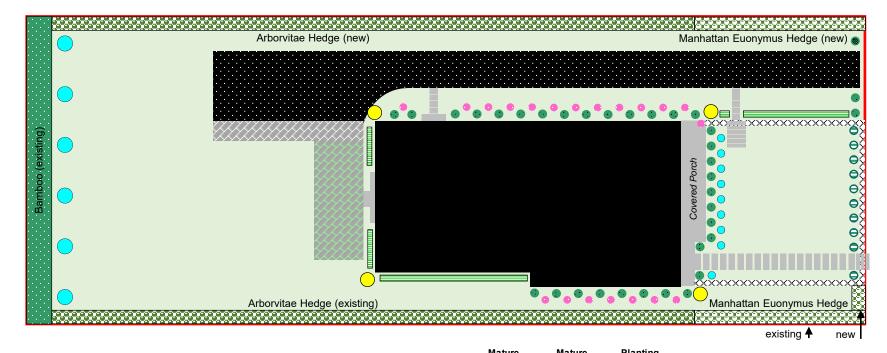
### 251 MURRAY Avenue Landscaping Plan

- Green Velvet Boxwood
- English Laurel
- Perennial
- Big Daddy Hydrangea
- Endless Summer Hydrangea
- Steeds Upright Japanese Holly

888888	Arborvitae
833333	Manhattan Euonymus
• • • • •	Bamboo
	Blue Liriope
<u> </u>	Retaining wall
$\times$	Hardscape pavers
4444	Pervious hardscape







PROSPERO

	Mature Height	Width	Planting Size
Green Velvet Boxwood	3-4'	3-4'	3-5 gal
English Laurel	8-10'	5'	7 gal
Manhattan Euonymus	6'	5-6'	7 gal
Arborvitae Thin Man	3-5'	10-12'	5 gal
Steeds Upright Japanese Holly	8-10'	4'	7 gal
Big Daddy Hydrangea (blue)	5-6'	5-6'	3 gal
Endless Summer Hydrangea (blue)	3-4'	3-4'	3 gal
Blue Liriope	12-18"	12-18"	3" pots

# STORMWATER MANAGEMENT PLAN & DRAINAGE ANALYSIS

# 251 Murray Avenue Town of Mamaroneck - New York

June 28, 2019 Revised: January 22, 2020



Hudson Engineering & Consulting, P.C.

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# STORMWATER MANAGEMENT PLAN & DRAINAGE ANALYSIS 251 Murray Avenue Town of Mamaroneck - New York

# INTRODUCTION

This Stormwater Management Plan presents the proposed Best Management Practices (BMPs) to control erosion and sedimentation and manage stormwater during and upon construction of the proposed additions and alterations at 251 Murray Avenue in the Town of Mamaroneck, Westchester County, New York.

This Plan consists of this narrative and a plan set entitled: "Proposed Additions & Alterations, 251 Murray Avenue, Town of Mamaroneck, Westchester County - New York", all as prepared by Hudson Engineering and Consulting, P.C., Elmsford, New York, last revised January 22, 2020. The design is in accordance with the Town of Mamaroneck requirements. Since the project disturbance is less than one acre the New York State Department of Environmental Conservation [NYSDEC] stormwater regulations are not applicable.

# **METHODOLOGY**

The stormwater analysis was developed utilizing the Soil Conservation Service (SCS) TR-20, 24-hour Type III storm events (HydroCad®) to assist with the design of the mitigating practices. The "Complex Number" (CN) value determination is based on soil type, vegetation and land use. The design is in accordance with the Town of Mamaroneck's stormwater regulations. The "Time of Concentration" (T<sub>c</sub>) was determined as a direct entry of one-minute. The CN and T<sub>c</sub> data are input into the computer model. The project site was modeled for the 2-year, 5-year, 10-year and 25-year Type III – 24-hour storm event.

# BACKGROUND INFORMATION

The project site consists of 10,938 square feet situated on Murray Avenue. The site contains an existing dwelling, driveway, walkway, retaining walls and patio. The soil classification, based upon Westchester County Soils Mapping, is primarily Urban Land-Charlton-Chatfield complex, rolling, very rocky (Hydrologic soil group B). The site vegetation can be characterized as grass. The site is characterized as sloping from the east and west.

# PRE-DESIGN INVESTIGATIVE ANALYSIS

A pre-design investigative analysis was performed consisting of deep tests in the location shown on the plans. Due to the presence of high ground water, it was unnecessary to perform percolation testing. A series of Deep test holes were excavated and labeled TP-1, TP-2 and TP-3 as shown on the plans.

- TP-1 was excavated to a depth of 78-inches. The test revealed topsoil to a depth of 6-inches, dark brown clay loam to a depth of 42-inches, and grey clay to the invert. Ground water was observed at a depth of 42-inches. No ledge rock was encountered for the entire depth.
- TP-2 was excavated to a depth of 105-inches. The test revealed topsoil to a depth of 6-inches, dark brown clay loam to a depth of 30-inches, and grey clay to the invert. Groundwater was observed at a depth of 30-inches. No Ledge rock was encountered for the entire depth.
- TP-3 was excavated to a depth of 96-inches. The test revealed topsoil to a depth of 6-inches, dark brown clay loam to a depth of 28-inches, and dark brown clay to the invert. Groundwater was observed at a depth of 28-inches. No Ledge rock was encountered for the entire depth.

The Deep test data sheet is attached.

# PRE-DEVELOPED CONDITION

In the pre-developed condition, the site is modeled as one watershed, Watershed 1 which contains 10,938 square feet of area in the form of 8,235 square feet of pervious area consisting of grass cover and 2,703 square feet of impervious area consisting dwelling, driveway, walkway, patio and retaining walls. The weighted Complex Number (CN) value is calculated as 70 and the Time of Concentration (Tc) is calculated as 9.3 minutes. The runoff originates from the eastern portion of the property, flows overland in a western direction and exits the site along the southwestern corner of the property at DP-1.

# POST-DEVELOPED CONDITION

Watershed 1A contains 7,192 square feet of tributary area which is made up of 6,892 square feet of pervious area in the form of grass pave and grass cover and 300 square feet of impervious area in the form of retaining walls, walkways, and steps. The weighted Curve Number (CN) value is calculated as 63 and the Time of Concentration (Tc) is calculated as 9.8 minutes. The runoff originates from the eastern portion of the property, flows west overland and exits the site along the southwestern corner at drainage point DP-1.

The proposed altered dwelling and driveway were modeled as one watershed, Watershed 1B, containing approximately 3,746 square feet of impervious area. The CN value for this area is 98 and the  $T_c$  is a direct entry of 1 minute. The stormwater runoff from this tributary area is conveyed via a comprehensive drainage system and released into a proposed attenuation gallery consisting of 50 LF of 30" HDPE pipe. The runoff volume for storm events greater than the water quality storm event is released at a rate that is equal to or less than the existing peak rate up to and including the 25-year storm event. The flows from

watershed 1A combine with the flows from watershed 1B and exit the site at drainage point DP-1.

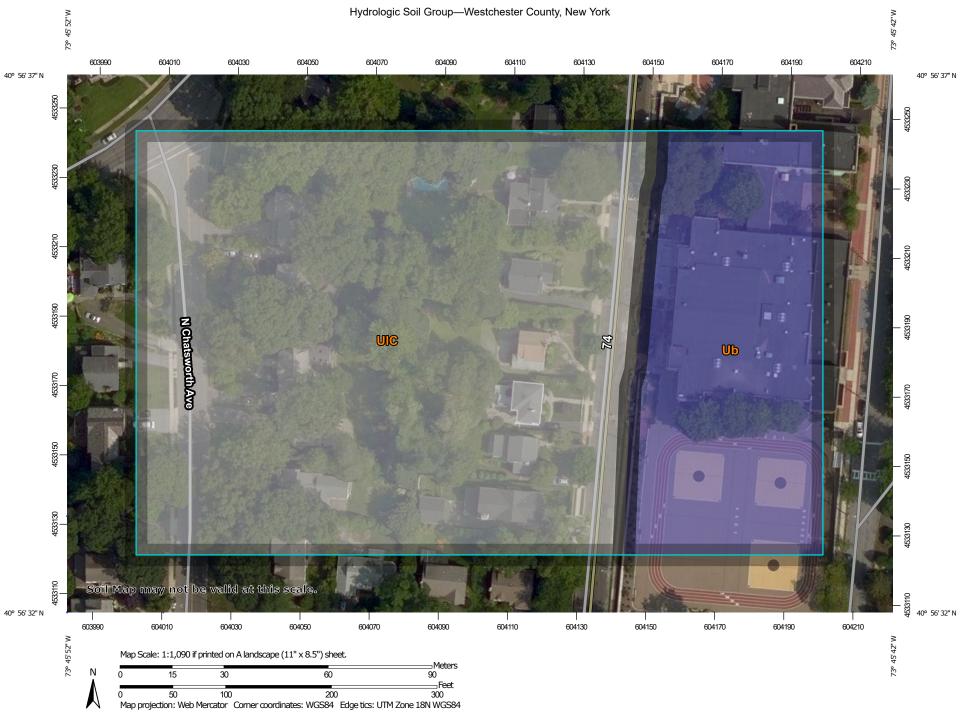
Design Point						
	2-year	5-year	10-year	25-year		
DP-1						
Pre-[cfs]	0.23	0.39	0.55	0.82		
Post-[cfs]	0.19	0.38	0.47	0.65		

The peak rates of runoff from the Watershed were calculated to be as follows:

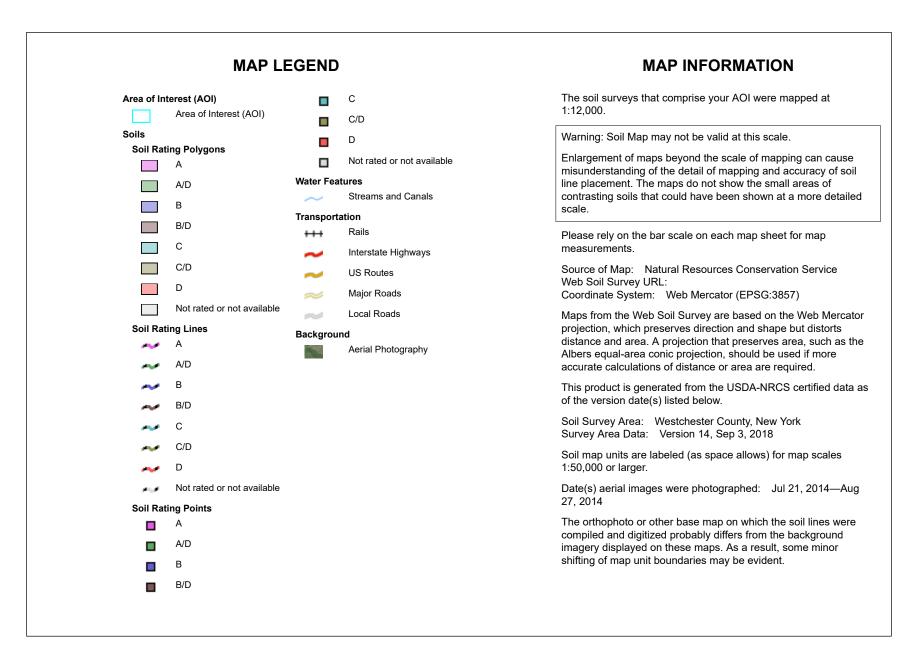
# CONCLUSION

The stormwater management plan proposed meets all the requirements set forth by the Town of Mamaroneck. Design modification requirements that may occur during the approval process will be performed and submitted for review to the Town of Mamaroneck.

Soils Maps & Soils Data



USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey





# Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI			
Ub	Udorthents, smoothed	В	1.6	26.9%			
UIC	Urban land-Charlton- Chatfield complex, rolling, very rocky		4.4	73.1%			
Totals for Area of Intere	est	6.0	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

USDA

Component Percent Cutoff: None Specified Tie-break Rule: Higher



**Extreme Precipitation Tables** 

# **Extreme Precipitation Tables**

# Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

Smoothing	Yes
State	New York
Location	
Longitude	73.763 degrees West
Latitude	40.943 degrees North
Elevation	0 feet
Date/Time	Wed, 12 Jun 2019 16:17:14 -0400

# **Extreme Precipitation Estimates**

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.34	0.51	0.64	0.84	1.04	1.30	1yr	0.90	1.23	1.50	1.86	2.31	2.85	3.22	1yr	2.53	3.10	3.59	4.31	4.94	1yr
2yr	0.40	0.62	0.77	1.02	1.28	1.60	2yr	1.11	1.50	1.84	2.28	2.80	3.44	3.87	2yr	3.05	3.72	4.27	5.07	5.75	2yr
5yr	0.47	0.74	0.92	1.24	1.58	2.00	5yr	1.37	1.85	2.31	2.86	3.52	4.31	4.89	5yr	3.81	4.70	5.45	6.38	7.12	5yr
10yr	0.53	0.84	1.05	1.43	1.86	2.37	10yr	1.61	2.18	2.74	3.40	4.18	5.11	5.84	10yr	4.52	5.62	6.55	7.59	8.38	10yr
25yr	0.62	0.98	1.25	1.73	2.31	2.97	25yr	1.99	2.70	3.45	4.29	5.27	6.40	7.40	25yr	5.66	7.11	8.37	9.55	10.38	25yr
50yr	0.70	1.13	1.45	2.02	2.72	3.52	50yr	2.35	3.18	4.11	5.11	6.26	7.59	8.85	50yr	6.72	8.51	10.07	11.36	12.22	50yr
100yr	0.80	1.29	1.66	2.35	3.21	4.18	100yr	2.77	3.75	4.88	6.08	7.45	9.01	10.58	100yr	7.98	10.18	12.12	13.52	14.39	100yr
200yr	0.90	1.48	1.91	2.74	3.79	4.97	200yr	3.27	4.42	5.81	7.25	8.87	10.70	12.67	200yr	9.47	12.18	14.60	16.10	16.95	200yr
500yr	1.08	1.78	2.32	3.37	4.72	6.24	500yr	4.07	5.51	7.31	9.13	11.16	13.44	16.07	500yr	11.90	15.45	18.69	20.29	21.06	500yr

# **Lower Confidence Limits**

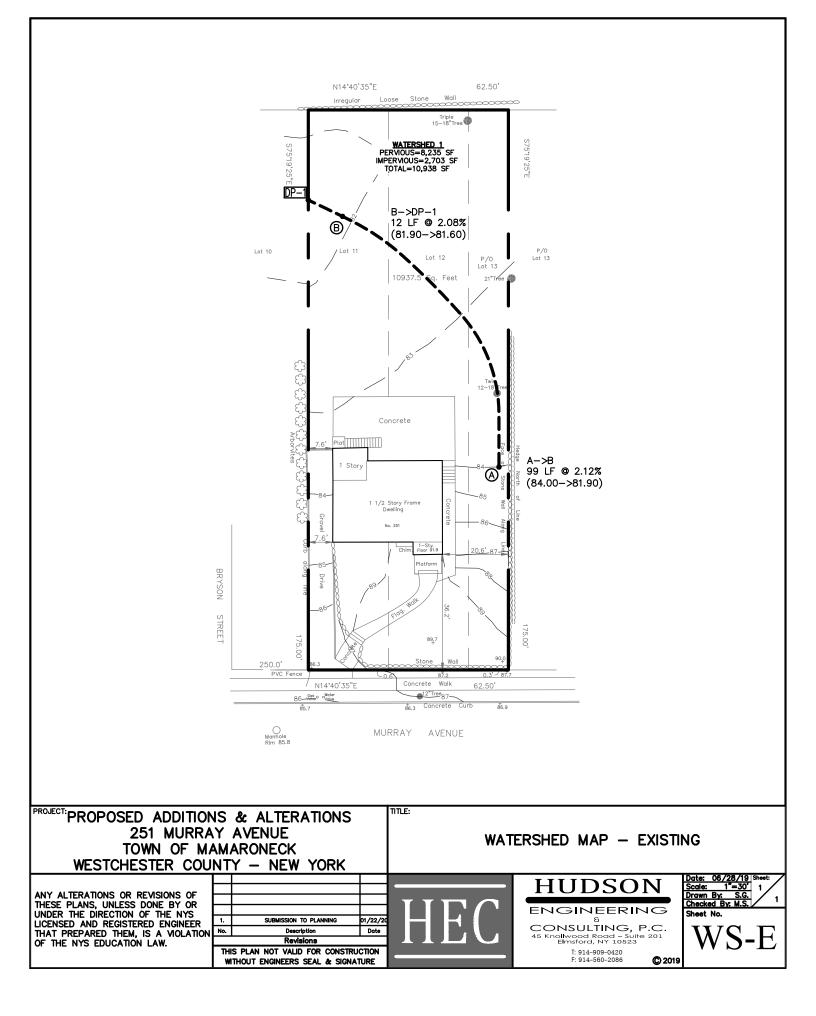
	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.26	0.41	0.50	0.67	0.82	0.94	1yr	0.71	0.92	1.25	1.52	1.97	2.59	3.01	1yr	2.29	2.90	3.34	4.02	4.61	1yr
2yr	0.39	0.61	0.74	1.01	1.24	1.50	2yr	1.07	1.47	1.70	2.18	2.71	3.35	3.76	2yr	2.97	3.61	4.15	4.94	5.61	2yr
5yr	0.44	0.68	0.84	1.15	1.47	1.78	5yr	1.27	1.74	2.02	2.58	3.20	4.03	4.54	5yr	3.56	4.37	5.07	5.95	6.70	5yr
10yr	0.49	0.75	0.93	1.30	1.67	2.03	10yr	1.45	1.99	2.30	2.92	3.55	4.62	5.19	10yr	4.09	5.00	5.92	6.85	7.64	10yr
25yr	0.56	0.85	1.06	1.51	1.98	2.40	25yr	1.71	2.35	2.73	3.44	4.08	5.53	6.18	25yr	4.89	5.94	7.24	8.25	9.08	25yr
50yr	0.62	0.94	1.17	1.68	2.26	2.71	50yr	1.95	2.65	3.13	3.93	4.49	6.31	7.04	50yr	5.58	6.77	8.47	9.48	10.35	50yr
100yr	0.69	1.04	1.31	1.89	2.59	3.06	100yr	2.23	2.99	3.60	4.50	4.98	7.20	7.99	100yr	6.37	7.68	9.89	10.89	11.80	100yr
200yr	0.77	1.16	1.47	2.13	2.98	3.48	200yr	2.57	3.40	4.14	5.16	5.48	8.22	9.09	200yr	7.27	8.74	11.58	12.52	13.47	200yr
500yr	0.91	1.35	1.74	2.52	3.59	4.15	500yr	3.10	4.06	5.01	6.25	8.46	9.77	10.76	500yr	8.64	10.35	14.27	15.04	16.02	500yr

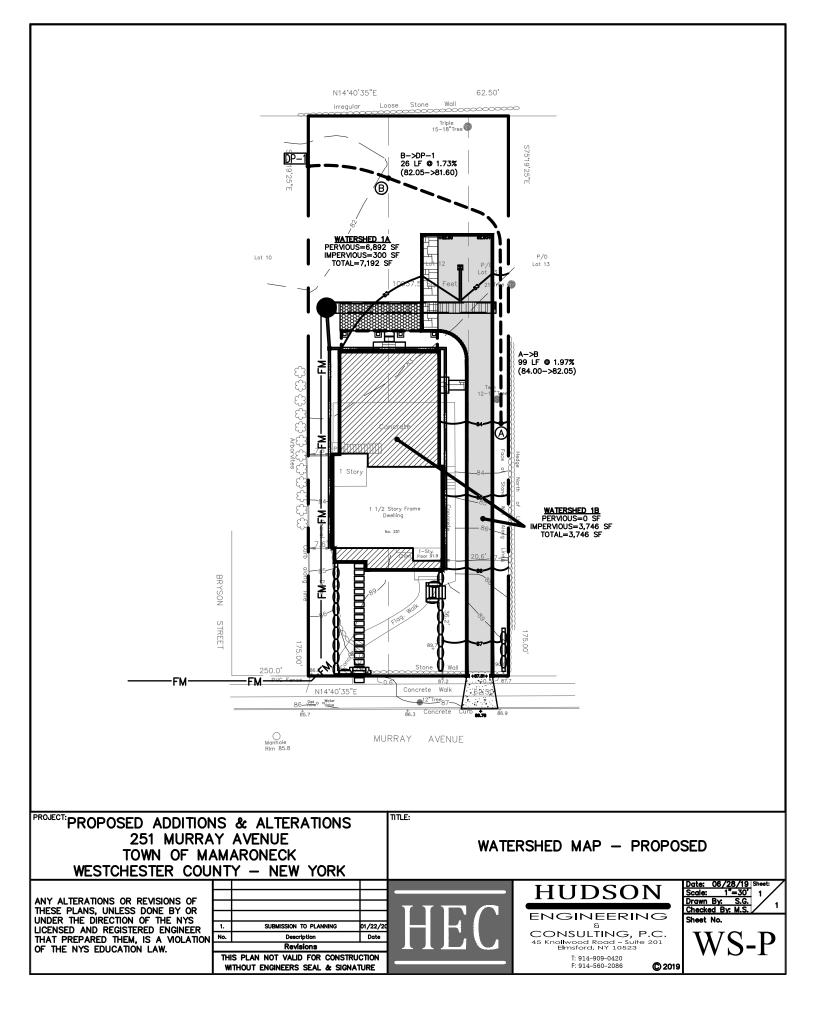
# **Upper Confidence Limits**

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.38	0.59	0.72	0.96	1.19	1.39	1yr	1.02	1.36	1.63	2.13	2.61	3.12	3.46	1yr	2.76	3.32	3.84	4.62	5.25	1yr
2yr	0.42	0.65	0.79	1.08	1.33	1.63	2yr	1.15	1.60	1.88	2.37	3.01	3.55	4.03	2yr	3.14	3.87	4.40	5.23	5.92	2yr
5yr	0.51	0.78	0.97	1.33	1.69	1.99	5yr	1.46	1.95	2.31	3.02	3.75	4.60	5.21	5yr	4.07	5.01	5.84	6.81	7.53	5yr
10yr	0.59	0.91	1.13	1.58	2.04	2.39	10yr	1.76	2.33	2.80	3.66	4.54	5.62	6.38	10yr	4.98	6.14	7.24	8.34	9.08	10yr
25yr	0.73	1.12	1.39	1.99	2.61	3.02	25yr	2.25	2.95	3.60	4.71	5.86	7.30	8.36	25yr	6.46	8.04	9.62	10.92	11.60	25yr
50yr	0.86	1.31	1.63	2.34	3.15	3.62	50yr	2.72	3.54	4.37	5.72	7.11	8.94	10.23	50yr	7.91	9.84	11.92	13.39	13.98	50yr
100yr	1.01	1.53	1.92	2.77	3.80	4.33	100yr	3.28	4.24	5.27	6.92	8.63	10.93	12.57	100yr	9.67	12.09	14.77	16.42	16.86	100yr
200yr	1.19	1.79	2.27	3.29	4.59	5.19	200yr	3.96	5.07	6.37	8.39	10.47	13.36	15.46	200yr	11.82	14.87	18.30	20.17	20.32	200yr
500yr	1.49	2.21	2.85	4.14	5.88	6.57	500yr	5.08	6.43	8.19	10.82	13.32	17.45	20.34	500yr	15.44	19.56	24.31	26.45	26.03	500yr

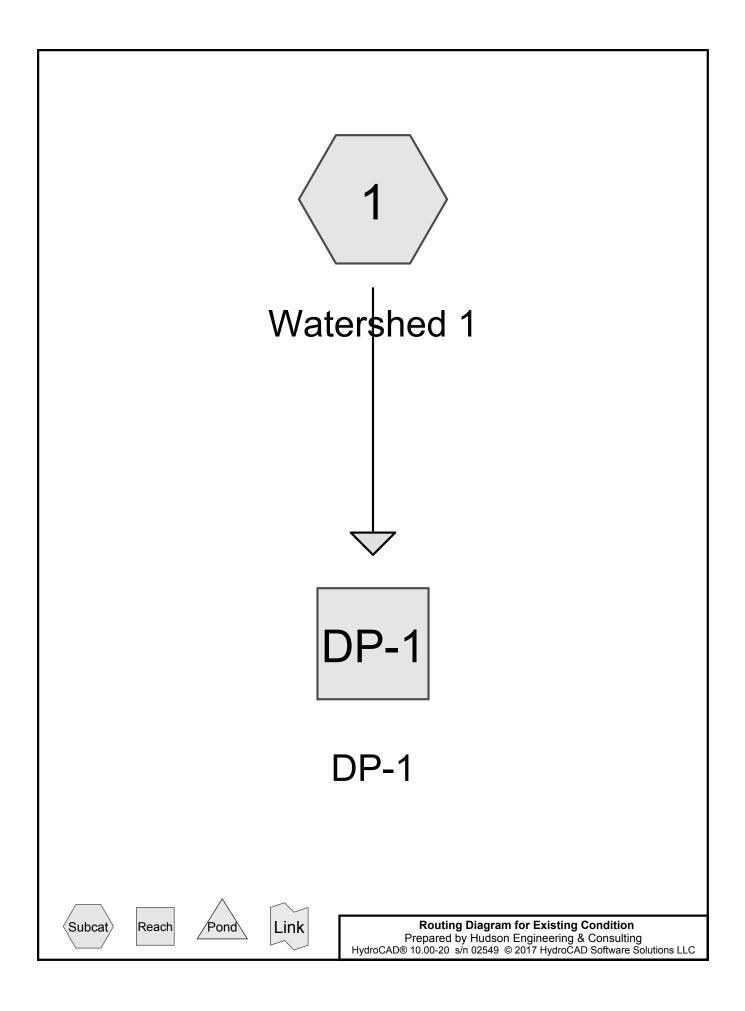


Watershed Maps





# Pre-Development Analysis of the 2, 5, 10, and 25-year Storm Events



### Summary for Subcatchment 1: Watershed 1

Runoff 0.23 cfs @ 12.14 hrs, Volume= 885 cf, Depth= 0.97" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 2-Year Rainfall=3.44"

	A	rea (sf)	CN E	Description		
*		2,703	98 li	mpervious	Surfaces	
		8,235	61 >	75% Gras	s cover, Go	ood, HSG B
		10,938	70 V	Veighted A	verage	
		8,235	7	5.29% Per	vious Area	
	2,703 24.71% Impervious Area					
	_				<b>-</b>	
	Tc	Length	Slope	Velocity	Capacity	Description
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	9.1	99	0.0212	0.18		Sheet Flow, A -> B
						Grass: Short n= 0.150 P2= 3.50"
	0.2	12	0.0250	1.11		Shallow Concentrated Flow, B->DP-1
						Short Grass Pasture Kv= 7.0 fps
	9.3	111	Total			

### Summary for Reach DP-1: DP-1

Inflow Are	a =	10,938 sf, 24.7	1% Impervious,	Inflow Depth =	0.97"	for 2-Year event
Inflow	=	0.23 cfs @ 12.14	hrs, Volume=	885 c	f	
Outflow	=	0.23 cfs @ 12.14	hrs, Volume=	885 c	f, Atter	n= 0%, Lag= 0.0 min

### Summary for Subcatchment 1: Watershed 1

Runoff 0.39 cfs @ 12.14 hrs, Volume= 1,404 cf, Depth= 1.54" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 5-Year Rainfall=4.31"

_	A	rea (sf)	CN E	escription			
*		2,703	98 Ir	npervious	Surfaces		
_		8,235	61 >	75% Gras	s cover, Go	bod, HSG B	
		10,938	70 V	Veighted A	verage		
		8,235	7	5.29% Per	vious Area		
	2,703 24.71% Impervious Area						
	_						
	Tc	Length	Slope	Velocity	Capacity	Description	
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
	9.1	99	0.0212	0.18		Sheet Flow, A -> B	
						Grass: Short n= 0.150 P2= 3.50"	
	0.2	12	0.0250	1.11		Shallow Concentrated Flow, B->DP-1	
_						Short Grass Pasture Kv= 7.0 fps	
	9.3	111	Total				

### Summary for Reach DP-1: DP-1

Inflow Are	a =	10,938 sf, 24.71% Impervious, Inflow Depth = 1.54" for 5-Year event
Inflow	=	0.39 cfs @ 12.14 hrs, Volume= 1,404 cf
Outflow	=	0.39 cfs @ 12.14 hrs, Volume= 1,404 cf, Atten= 0%, Lag= 0.0 min

### Summary for Subcatchment 1: Watershed 1

Runoff 0.55 cfs @ 12.14 hrs, Volume= 1,931 cf, Depth= 2.12" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 10-Year Rainfall=5.11"

_	A	rea (sf)	CN E	escription		
*		2,703	98 Ir	npervious	Surfaces	
_		8,235	61 >	75% Gras	s cover, Go	bod, HSG B
		10,938		Veighted A		
		8,235	7	5.29% Per	vious Area	
	2,703 24.71% Impervious Area					
	_					
	Tc	Length	Slope	Velocity	Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	9.1	99	0.0212	0.18		Sheet Flow, A -> B
						Grass: Short n= 0.150 P2= 3.50"
	0.2	12	0.0250	1.11		Shallow Concentrated Flow, B->DP-1
_						Short Grass Pasture Kv= 7.0 fps
	9.3	111	Total			

### Summary for Reach DP-1: DP-1

Inflow Are	a =	10,938 sf, 24.71% Impervious, Inflow Depth = 2.12" for 10-Year event	
Inflow	=	0.55 cfs @ 12.14 hrs, Volume= 1,931 cf	
Outflow	=	0.55 cfs @ 12.14 hrs, Volume= 1,931 cf, Atten= 0%, Lag= 0.0 mi	n

### Summary for Subcatchment 1: Watershed 1

Runoff 0.82 cfs @ 12.13 hrs, Volume= 2,849 cf, Depth= 3.13" =

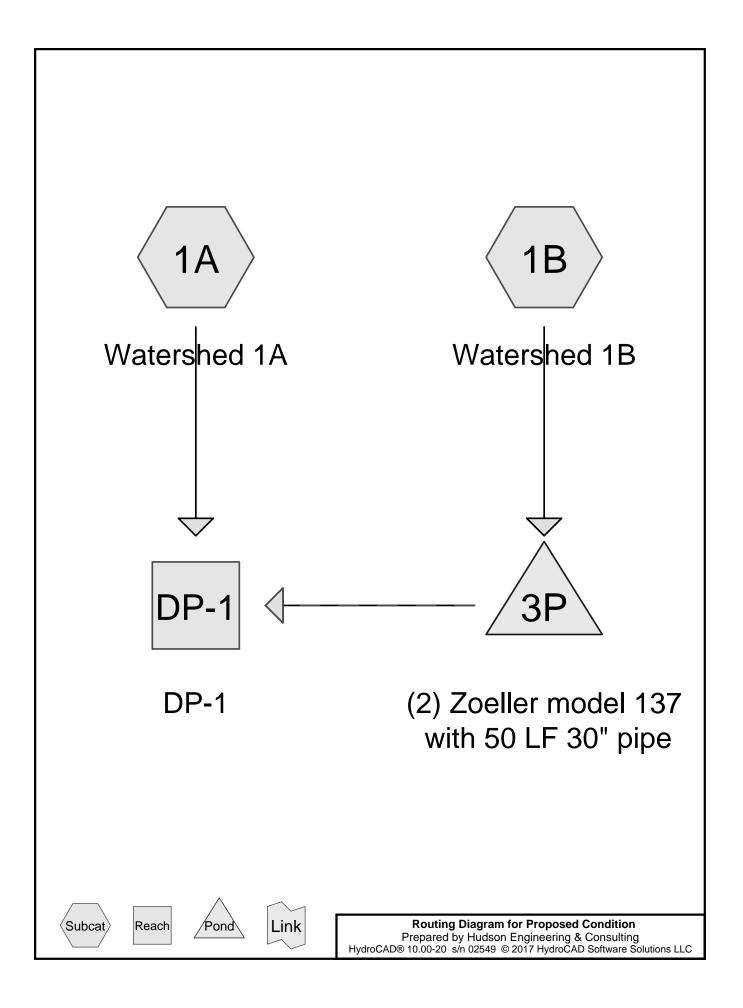
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 25-Year Rainfall=6.40"

_	A	rea (sf)	CN E	Description			
*		2,703	98 l	mpervious	Surfaces		
		8,235	61 >	75% Gras	s cover, Go	ood, HSG B	
		10,938	70 V	Veighted A	verage		
		8,235	7	5.29% Per	vious Area		
		2,703	2	4.71% Imp	pervious Are	ea	
	_						
	Tc	Length	Slope	Velocity	Capacity	Description	
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
	9.1	99	0.0212	0.18		Sheet Flow, A -> B	
						Grass: Short n= 0.150 P2= 3.50"	
	0.2	12	0.0250	1.11		Shallow Concentrated Flow, B->DP-1	
						Short Grass Pasture Kv= 7.0 fps	
	9.3	111	Total				

### Summary for Reach DP-1: DP-1

Inflow Are	a =	10,938 sf,	24.71% Impervious,	Inflow Depth = 3.13"	for 25-Year event
Inflow	=	0.82 cfs @	12.13 hrs, Volume=	2,849 cf	
Outflow	=	0.82 cfs @	12.13 hrs, Volume=	2,849 cf, Atte	en= 0%, Lag= 0.0 min

# Post-Development Analysis of the 2, 5, 10, and 25-Year Storm Events



### Summary for Subcatchment 1A: Watershed 1A

0.08 cfs @ 12.16 hrs, Volume= 378 cf, Depth= 0.63" Runoff =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 2-Year Rainfall=3.44"

	А	rea (sf)	CN I	Description						
		6,674	61 :	>75% Grass cover, Good, HSG B						
*		183	98	Existing Wa	alkway and	Steps				
*		117	98	Retaining V	Valls	·				
*		218	84 (	Grass Patio						
_		7,192	63	63 Weighted Average						
		6,892	ļ	95.83% Pei	vious Area					
		300	4	4.17% Impervious Area						
	Tc	Length	Slope	Velocity	Capacity	Description				
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	9.3	99	0.0197	0.18		Sheet Flow, A -> B				
						Grass: Short n= 0.150 P2= 3.50"				
	0.5	26	0.0173	0.92		Shallow Concentrated Flow, B -> DP-1				
						Short Grass Pasture Kv= 7.0 fps				
	9.8	125	Total							

### Summary for Subcatchment 1B: Watershed 1B

0.34 cfs @ 12.01 hrs, Volume= 1,001 cf, Depth= 3.21" Runoff =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 2-Year Rainfall=3.44"

_	A	rea (sf)	CN	Description				
*		2,206	98	Proposed A	Itered Dwe	lling		
*		1,540	98	Proposed Patio & Driveway				
		3,746 98 Weighted Average						
		3,746		100.00% Impervious Area				
	Tc (min)	Length (feet)	Slop (ft/ft		Capacity (cfs)	Description		
_	1.0	(1001)	(10/1	.) (14000)	(0.0)	Direct Entry,		

### Summary for Reach DP-1: DP-1

Inflow Area =	10,938 sf,	, 36.99% Impervious,	Inflow Depth = 1.48"	for 2-Year event
Inflow =	0.19 cfs @	12.16 hrs, Volume=	1,350 cf	
Outflow =	0.19 cfs @	12.16 hrs, Volume=	1,350 cf, Atter	n= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs

### Summary for Pond 3P: (2) Zoeller model 137 with 50 LF 30" pipe

Inflow Area =	3,746 sf,100.00% Impervious,	Inflow Depth = 3.21" for 2-Year event
Inflow =	0.34 cfs @ 12.01 hrs, Volume=	1,001 cf
Outflow =	0.11 cfs @ 12.24 hrs, Volume=	972 cf, Atten= 69%, Lag= 13.3 min
Primary =	0.11 cfs @ 12.24 hrs, Volume=	972 cf
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Peak Elev= 76.76' @ 12.24 hrs Surf.Area= 0.003 ac Storage= 0.004 af

Plug-Flow detention time= 40.6 min calculated for 972 cf (97% of inflow) Center-of-Mass det. time= 22.4 min (772.7 - 750.3)

Volume	Invert	Avail.Stora	ge Storage Description
#1 #2	75.00' 75.50'	0.003 0.006	af <b>5.00'D x 7.50'H Vertical Cone/Cylinder</b> af <b>30.0" Round Pipe Storage</b> L= 50.0'
		0.009	af Total Available Storage
Device	Routing	Invert	Outlet Devices
#1	Primary	76.00'	Zoeller Model 270 Discharges@85.00' Turns Off@75.50' 2.0" Diam. x 150.0' Long Discharge, Hazen-Williams C= 130 Flow (gpm)= 8.0 36.0 58.0 79.0 90.0 Head (feet)= 25.00 20.00 15.00 10.00 5.00 -Loss (feet)= 0.31 4.97 12.03 21.32 27.14 =Lift (feet)= 24.69 15.03 2.97 -11.32 -22.14
#2	Secondary	77.00'	<b>Zoeller Model 270</b> Discharges@85.00' Turns Off@75.50' 2.0" Diam. x 150.0' Long Discharge, Hazen-Williams C= 130 Flow (gpm)= 8.0 36.0 58.0 79.0 90.0 Head (feet)= 25.00 20.00 15.00 10.00 5.00 -Loss (feet)= 0.31 4.97 12.03 21.32 27.14 =Lift (feet)= 24.69 15.03 2.97 -11.32 -22.14

Primary OutFlow Max=0.11 cfs @ 12.24 hrs HW=76.76' TW=0.00' (Dynamic Tailwater) -1=Zoeller Model 270 (Pump Controls 0.11 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=75.00' TW=0.00' (Dynamic Tailwater) 2=Zoeller Model 270 (Controls 0.00 cfs)

### Summary for Subcatchment 1A: Watershed 1A

Runoff = 0.16 cfs @ 12.15 hrs, Volume= 654 cf, Depth= 1.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 5-Year Rainfall=4.31"

	A	rea (sf)	CN [	CN Description						
		6,674	61 >	61 >75% Grass cover, Good, HSG B						
*		183	98 E	Existing Wa	alkway and	Steps				
*		117		Retaining V						
*		218		Grass Patic						
		7,192	63 \	Veighted A	verage					
		6,892	ç	95.83% Pei	vious Area					
		300	2	1.17% Impe	ervious Are	a				
	Тс	Length	Slope	Velocity	Capacity	Description				
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
		0								
	(min)	(feet)	(ft/ft)	(ft/sec)		Description Sheet Flow, A -> B Grass: Short n= 0.150 P2= 3.50"				
	(min)	(feet)	(ft/ft)	(ft/sec)		Sheet Flow, A -> B Grass: Short n= 0.150 P2= 3.50"				
	<u>(min)</u> 9.3	(feet) 99	(ft/ft) 0.0197	(ft/sec) 0.18		Sheet Flow, A -> B				

### Summary for Subcatchment 1B: Watershed 1B

Runoff = 0.43 cfs @ 12.01 hrs, Volume= 1,272 cf, Depth= 4.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 5-Year Rainfall=4.31"

_	A	rea (sf)	CN	Description					
*		2,206	98	Proposed A	Itered Dwe	lling			
*		1,540	98	Proposed P	atio & Driv	eway			
		3,746	98	Weighted Average					
		3,746		100.00% Impervious Area					
	Tc (min)	Length (feet)	Slop (ft/ft		Capacity (cfs)	Description			
_	1.0	(1001)	(10/1	.) (14000)	(0.0)	Direct Entry,			

### Summary for Reach DP-1: DP-1

Inflow Area =	10,938 sf, 36.99% Impervious,	Inflow Depth = 2.08"	for 5-Year event
Inflow =	0.38 cfs @ 12.15 hrs, Volume=	1,900 cf	
Outflow =	0.38 cfs @ 12.15 hrs, Volume=	1,900 cf, Atter	n= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs

### Summary for Pond 3P: (2) Zoeller model 137 with 50 LF 30" pipe

Inflow Area =	3,746 sf,100.00% Impervious,	Inflow Depth = 4.07" for 5-Year event
Inflow =	0.43 cfs @ 12.01 hrs, Volume=	1,272 cf
Outflow =	0.22 cfs @ 12.10 hrs, Volume=	1,246 cf, Atten= 50%, Lag= 5.1 min
Primary =	0.11 cfs @ 12.10 hrs, Volume=	1,060 cf
Secondary =	0.11 cfs @ 12.10 hrs, Volume=	186 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Peak Elev= 77.01' @ 12.10 hrs Surf.Area= 0.003 ac Storage= 0.004 af

Plug-Flow detention time= 32.9 min calculated for 1,246 cf (98% of inflow) Center-of-Mass det. time= 19.9 min (765.9 - 746.0)

Volume	Invert	Avail.Stora	ge Storage Description
#1 #2	75.00' 75.50'	0.003 0.006	af 5.00'D x 7.50'H Vertical Cone/Cylinder af 30.0" Round Pipe Storage L= 50.0'
		0.009	af Total Available Storage
Device	Routing	Invert	Outlet Devices
#1	Primary	76.00'	<b>Zoeller Model 270</b> Discharges@85.00' Turns Off@75.50' 2.0" Diam. x 150.0' Long Discharge, Hazen-Williams C= 130 Flow (gpm)= 8.0 36.0 58.0 79.0 90.0 Head (feet)= 25.00 20.00 15.00 10.00 5.00 -Loss (feet)= 0.31 4.97 12.03 21.32 27.14 =Lift (feet)= 24.69 15.03 2.97 -11.32 -22.14
#2	Secondary	77.00'	<b>Zoeller Model 270</b> Discharges@85.00' Turns Off@75.50' 2.0" Diam. x 150.0' Long Discharge, Hazen-Williams C= 130 Flow (gpm)= 8.0 36.0 58.0 79.0 90.0 Head (feet)= 25.00 20.00 15.00 10.00 5.00 -Loss (feet)= 0.31 4.97 12.03 21.32 27.14 =Lift (feet)= 24.69 15.03 2.97 -11.32 -22.14

Primary OutFlow Max=0.11 cfs @ 12.10 hrs HW=77.01' TW=0.00' (Dynamic Tailwater) -1=Zoeller Model 270 (Pump Controls 0.11 cfs)

Secondary OutFlow Max=0.11 cfs @ 12.10 hrs HW=77.01' TW=0.00' (Dynamic Tailwater) 2=Zoeller Model 270 (Pump Controls 0.11 cfs)

### Summary for Subcatchment 1A: Watershed 1A

Runoff = 0.25 cfs @ 12.15 hrs, Volume= 946 cf, Depth= 1.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 10-Year Rainfall=5.11"

	A	rea (sf)	CN [	CN Description						
		6,674	61 >	61 >75% Grass cover, Good, HSG B						
*		183	98 E	Existing Wa	alkway and	Steps				
*		117		Retaining V						
*		218		Grass Patic						
		7,192	63 \	Veighted A	verage					
		6,892	ç	95.83% Pei	vious Area					
		300	2	1.17% Impe	ervious Are	a				
	Тс	Length	Slope	Velocity	Capacity	Description				
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
		0								
	(min)	(feet)	(ft/ft)	(ft/sec)		Description Sheet Flow, A -> B Grass: Short n= 0.150 P2= 3.50"				
	(min)	(feet)	(ft/ft)	(ft/sec)		Sheet Flow, A -> B Grass: Short n= 0.150 P2= 3.50"				
	<u>(min)</u> 9.3	(feet) 99	(ft/ft) 0.0197	(ft/sec) 0.18		Sheet Flow, A -> B				

### Summary for Subcatchment 1B: Watershed 1B

Runoff = 0.51 cfs @ 12.01 hrs, Volume= 1,521 cf, Depth= 4.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 10-Year Rainfall=5.11"

	A	rea (sf)	CN	Description					
*		2,206	98	Proposed Altered Dwelling					
*		1,540	98	Proposed F	atio & Driv	reway			
		3,746	98	Weighted Average					
		3,746		100.00% Impervious Area					
	Тс	Length	Slop	e Velocity	Capacity	Description			
_	(min)	(feet)	(ft/ft	) (ft/sec)	(cfs)				
	1.0					Direct Entry,			

### Summary for Reach DP-1: DP-1

Inflow Area =	10,938 sf, 36.99% Impervious,	Inflow Depth = 2.69" for 10-Year ever	nt
Inflow =	0.47 cfs @ 12.15 hrs, Volume=	2,450 cf	
Outflow =	0.47 cfs @ 12.15 hrs, Volume=	2,450 cf, Atten= 0%, Lag= 0.0 n	nin

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs

### Summary for Pond 3P: (2) Zoeller model 137 with 50 LF 30" pipe

Inflow Area =	3,746 sf,100.00% Impervious,	Inflow Depth = 4.87" for 10-Year event
Inflow =	0.51 cfs @ 12.01 hrs, Volume=	1,521 cf
Outflow =	0.22 cfs @ 12.11 hrs, Volume=	1,504 cf, Atten= 57%, Lag= 6.0 min
Primary =	0.11 cfs @ 12.11 hrs, Volume=	1,249 cf
Secondary =	0.11 cfs @ 12.11 hrs, Volume=	255 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Peak Elev= 77.30' @ 12.11 hrs Surf.Area= 0.003 ac Storage= 0.005 af

Plug-Flow detention time= 30.3 min calculated for 1,503 cf (99% of inflow) Center-of-Mass det. time= 22.6 min (765.6 - 743.0)

Volume	Invert	Avail.Storag	ge Storage Description
#1 #2	75.00' 75.50'	0.003 0.006	af 5.00'D x 7.50'H Vertical Cone/Cylinder af 30.0" Round Pipe Storage L= 50.0'
		0.009	af Total Available Storage
Device	Routing	Invert	Outlet Devices
#1	Primary		<b>Zoeller Model 270</b> Discharges@85.00' Turns Off@75.50' 2.0" Diam. x 150.0' Long Discharge, Hazen-Williams C= 130 Flow (gpm)= 8.0 36.0 58.0 79.0 90.0 Head (feet)= 25.00 20.00 15.00 10.00 5.00 -Loss (feet)= 0.31 4.97 12.03 21.32 27.14 =Lift (feet)= 24.69 15.03 2.97 -11.32 -22.14
#2	Secondary	77.00'	<b>Zoeller Model 270</b> Discharges@85.00' Turns Off@75.50' 2.0" Diam. x 150.0' Long Discharge, Hazen-Williams C= 130 Flow (gpm)= 8.0 36.0 58.0 79.0 90.0 Head (feet)= 25.00 20.00 15.00 10.00 5.00 -Loss (feet)= 0.31 4.97 12.03 21.32 27.14 =Lift (feet)= 24.69 15.03 2.97 -11.32 -22.14

Primary OutFlow Max=0.11 cfs @ 12.11 hrs HW=77.30' TW=0.00' (Dynamic Tailwater) -1=Zoeller Model 270 (Pump Controls 0.11 cfs)

Secondary OutFlow Max=0.11 cfs @ 12.11 hrs HW=77.30' TW=0.00' (Dynamic Tailwater) 2=Zoeller Model 270 (Pump Controls 0.11 cfs)

### Summary for Subcatchment 1A: Watershed 1A

Runoff = 0.41 cfs @ 12.14 hrs, Volume= 1,475 cf, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 25-Year Rainfall=6.40"

_	A	rea (sf)	CN I	Description						
		6,674	61 :	>75% Grass cover, Good, HSG B						
*		183	98 I	Existing Wa	alkway and	Steps				
*		117		Retaining V		•				
*		218		Grass Patic						
		7,192	63	Neighted A	verage					
		6,892	ç	95.83% Pei	vious Area					
		300	4	4.17% Impe	ervious Area	a				
	Тс	Length	Slope	Velocity	Capacity	Description				
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	•				
	9.3	99	0.0197	0.18		Sheet Flow, A -> B				
						Grass: Short n= 0.150 P2= 3.50"				
	0.5	26	0.0173	0.92		Shallow Concentrated Flow, B -> DP-1				
						Short Grass Pasture Kv= 7.0 fps				
_	9.8	125	Total			· · · · ·				

### Summary for Subcatchment 1B: Watershed 1B

Runoff = 0.64 cfs @ 12.01 hrs, Volume= 1,923 cf, Depth= 6.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 25-Year Rainfall=6.40"

_	A	rea (sf)	CN	Description		
*		2,206	98	Proposed A	Itered Dwe	lling
*		1,540	98	Proposed P	atio & Driv	eway
		3,746	98	Weighted A	verage	
		3,746		100.00% Impervious A		rea
	Тс	Length	Slop		Capacity	Description
_	(min)	(feet)	(ft/ft	) (ft/sec)	(cfs)	
	1.0					Direct Entry,

### Summary for Reach DP-1: DP-1

Inflow Area =	10,938 sf, 36.99% Impervious,	Inflow Depth = 3.71" for 25-Year event	
Inflow =	0.65 cfs @ 12.14 hrs, Volume=	3,380 cf	
Outflow =	0.65 cfs @ 12.14 hrs, Volume=	3,380 cf, Atten= 0%, Lag= 0.0 min	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs

### Summary for Pond 3P: (2) Zoeller model 137 with 50 LF 30" pipe

Inflow Area =	3,746 sf,100.00% Impervious,	Inflow Depth = 6.16" for 25-Year event
Inflow =	0.64 cfs @ 12.01 hrs, Volume=	1,923 cf
Outflow =	0.24 cfs @ 12.16 hrs, Volume=	1,906 cf, Atten= 63%, Lag= 8.7 min
Primary =	0.12 cfs @ 12.16 hrs, Volume=	1,522 cf
Secondary =	0.12 cfs @ 12.16 hrs, Volume=	383 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Peak Elev= 79.68' @ 12.16 hrs Surf.Area= 0.000 ac Storage= 0.008 af

Plug-Flow detention time= 27.9 min calculated for 1,906 cf (99% of inflow) Center-of-Mass det. time= 21.7 min (761.3 - 739.6)

Volume	Invert	Avail.Stora	ge Storage Description
#1 #2	75.00' 75.50'	0.003 0.006	af 5.00'D x 7.50'H Vertical Cone/Cylinder af 30.0" Round Pipe Storage L= 50.0'
0.009 af		0.009	af Total Available Storage
Device	Routing	Invert	Outlet Devices
#1	Primary	76.00'	<b>Zoeller Model 270</b> Discharges@85.00' Turns Off@75.50' 2.0" Diam. x 150.0' Long Discharge, Hazen-Williams C= 130 Flow (gpm)= 8.0 36.0 58.0 79.0 90.0 Head (feet)= 25.00 20.00 15.00 10.00 5.00 -Loss (feet)= 0.31 4.97 12.03 21.32 27.14 =Lift (feet)= 24.69 15.03 2.97 -11.32 -22.14
#2	Secondary	77.00'	<b>Zoeller Model 270</b> Discharges@85.00' Turns Off@75.50' 2.0" Diam. x 150.0' Long Discharge, Hazen-Williams C= 130 Flow (gpm)= 8.0 36.0 58.0 79.0 90.0 Head (feet)= 25.00 20.00 15.00 10.00 5.00 -Loss (feet)= 0.31 4.97 12.03 21.32 27.14 =Lift (feet)= 24.69 15.03 2.97 -11.32 -22.14

Primary OutFlow Max=0.12 cfs @ 12.16 hrs HW=79.68' TW=0.00' (Dynamic Tailwater) **1=Zoeller Model 270** (Pump Controls 0.12 cfs)

Secondary OutFlow Max=0.12 cfs @ 12.16 hrs HW=79.68' TW=0.00' (Dynamic Tailwater) 2=Zoeller Model 270 (Pump Controls 0.12 cfs)

### Deep Hole Test Logs



SITE ADDRESS: <u>251</u> Murray Ave. TOWN/VILLAGE: <u>Manaroreck (T)</u> DATE: <u>4-23-19</u> TIME: <u>11:00 AM</u> WEATHER: <u>Survey</u> TEMP. <u>64°F</u> WITNESSED BY: <u>Nicholas Shirriah</u>

### DEEP TEST HOLE DATA SHEET – STORMWATER MANAGEMENT SYSTEM

HUDSON

CONSULTING, P.C.

DEPTH	HOLE NO	HOLE NO	HÔLE NO HOLE NO
G.L.	Topsoil 0-6"	Topsoil 0-6"	Topsoil 0-6"
6"			
12"			
18"			
24"			
30"		6-30" Dark	6-28" Dark
36"	6-42"	Brown Clay	Clay Loam
42"	Dorric Brown	Loam	Gwat 283
48"	Clay Loan	GW at 30"	
54"	Gwat 42"		
60"	-		
66"			
72"			
78"	42-78"		
84"	Grey Clary		
90"			No Ledge
96"	No Ledge	No Ledge	23-96"
102"		30-105	Dark Brown
108"		Grey Clay	RINY

• Indicate level at which Ground Water (GW), Mottling and/or Ledge Rock is encountered.

• Indicate level for which water level rises after being encountered.

EXCAVATION PERFORMED BY:

### Town of Mamaroneck - Village of Larchmont Coastal Assessment Form (CAF)

Applicants, or the appropriate municipal agency, shall complete this Coastal Assessment Form (CAF) for proposed actions which are subject to Local Consistency Review (see Waterfront Revitalization Law §§234-1 through 234-5 in the Code of the Town of Mamaroneck and §§292-1 through 292-4 in the Code of the Village of Larchmont). This assessment is intended to supplement other information used by the Bi-Municipal Coastal Zone Management Commission in making a determination of consistency with the Town of Mamaroneck and Village of Larchmont Local Waterfront Revitalization Program.

Upon completion of this form, it should be submitted as part of a complete application package for review. If assistance or further information is required for Town of Mamaroneck matters, please contact the Town of Mamaroneck Environmental Planner at (914) 381-7845. For Village of Larchmont matters, please contact the Village of Larchmont Building Inspector at (914) 834-6210.

### PLEASE PRINT OR TYPE ALL ANSWERS.

### A. GENERAL INFORMATION

Will the proposed action	be undertaken by a m	unicipal agency? Yes [ ] No [ ]
If yes, please list agency	or agencies and conta	ct person(s):
If no, please complete th	e applicant informatio	n.
Characte A. Jaharana		
•		Email
	Fax:	Email:
Location and ownershi	n of property for wh	ich action is proposed:
		Lot:
o 15		
Street Address		
City, State, Zip:		
Phone:	Fax:	Email:
Size of property (square	feet):	Is the property now developed? Yes [ ] No [ ]
Will project require a zo		
		][]

Describe any unique/unusua	landforms on th	e project site (rock	coutcroppings, swales, etc.)	:
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Percentage of site which contains slopes of 25% or greater:	Percentage	of site	which	contains	slopes	of 25%	or greater:	
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Are there streams, lakes, ponds or wetlands ex	sisting within or contiguous to the project area?
If so, describe (name, size, characteristics):	

Will the action require approval by a state or federal agency? Yes [ ] No [ ] If yes, specify which state or federal agency and attach a copy of pending application and any relevant information and/or documentation to this form:

### **B. DESCRIPTION OF SITE AND PROPOSED ACTION**

Provide a written description of the nature and the extent of the proposed action. Attach plans or additional information as necessary and/or required by application procedures.

### C. COASTAL ASSESSMENT

Check either "Yes" or "No" for each of the following questions:

1. Will the proposed action be located in, or contiguous to, or have a **potentially adverse effect** upon any of the following designated resource areas?

		Y	es	Ν	0	May	<b>be</b>
a.	Significant fish or wildlife habitat or designated critical environmental area	[	]	[	]	[	]
b.	Scenic resources of local significance	[	]	[	]	[	]
c.	Natural protective features in an erosion hazard area	[	]	[	]	[	]

**NOTE:** If the answer to any of the above questions is "Yes", please explain in Section D any measures which will be undertaken to mitigate the adverse effects.

2. Will the proposed action have a **significant effect** upon:

2.	to in the proposed denon have a significant effect apon.	Yes	No	Maybe
a.	Commercial or recreational use of fish and wildlife resources	.[]	[ ]	[]
b.	Scenic quality of the coastal environment	.[ ]	[ ]	[ ]
с.	Development of future, or existing water dependent uses	.[ ]	[ ]	[ ]
d.	Land or water uses within a small harbor area	.[ ]	[ ]	[ ]
e.	Stability of the shoreline	.[ ]	[ ]	[ ]
f.	Surface or groundwater quality	.[ ]	[ ]	[ ]
g.	Existing or potential public recreation opportunities	.[ ]	[ ]	[ ]
h.	Structures, sites or districts of historic, archeological or cultural significance			
	to the local area, state or nation	.[ ]	[ ]	[ ]
3.	Will the proposed action <b>involve or result in</b> any of the following:			
		Yes	No	Maybe
a.	Physical alteration of land along the shoreline,			
	land underwater or coastal waters	.[ ]	[ ]	[ ]
b.	Expansion of existing public services or infrastructure in or near			
	undeveloped or low density areas of the coastal area?		[ ]	[ ]
c.	Filling, dredging, excavation or mining in coastal waters		[ ]	[ ]
d.	Reduction of existing or potential public access to or along the shore		[ ]	[ ]
e.	Development within a designated flood or erosion hazard area		[ ]	[ ]
f.	Development of a natural feature that protects against flooding or erosion		[ ]	[ ]
g.	Replacement of eroded sand or soil		[ ]	[ ]
h.	Construction or reconstruction of erosion protective structures		[ ]	[ ]
i.	Any change in surface or groundwater quality		[ ]	[ ]
j.	Removal of trees from the site	.[ ]	[ ]	[ ]
4.	Project details:			
		Yes	No	Maybe
a.	If the project is to be located adjacent to the shore:			

1. Does the project require a waterfront site in order to function	]	[	]	[	]
2. Will water-related recreation be provided[	]	[	]	[	]
3. Will public access to shore or state owned underwater lands be provided[	]	[	]	[	]
4. Will it replace a recreational or maritime use	]	[	]	[	]
5. Do essential public services and facilities presently exist at or near the site[	]	[	]	[	]

	6. Is the site located near a flood prone area	]	[	]	[	]
	7. Is the site located in an area of high erosion	]	[	]	[	]
b.	Is the site presently used by the community as an open space or					
	recreation area[	]	[	]	[	]
c.	Does the project site offer or include scenic views/vistas known to be					
	important to the community or the state	]	[	]	[	]
d.	Will the surface area of any waterways or wetland areas be increased or					
	decreased by the project	]	[	]	[	]
e.	Will the project involve any waste discharges into coastal waters	]	[	]	[	]
f.	Does the project involve discharge of toxins, hazardous substances or other					
	pollutants into coastal waters	]	[	]	[	]
g.	Will the project affect any area designated as a tidal or freshwater wetland[	]	[	]	[	]
h.	Will the project result in an alteration of drainage flow patterns or surface					
	water runoff on or from the site	]	[	]	[	]
i.	Will best management practices (BMPs) be utilized to control					
	stormwater runoff[	]	[	]	[	]
j.	Will any aspect of the proposed project result in emissions which exceed					
	federal or state air quality standards or generate significant amounts of					
	nitrates or sulfates[	]	[	]	[	]

### Please explain any of the above answers that may need further clarification in Section D.

### D. COMMENTS AND ADDITIONAL INFORMATION: (continue on back if necessary)

D.	COMMENTS	AND AD	DITIONAL	<b>INFORMATION:</b>	(continued)
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I certify that I am the above described applicant and that the information contained on this form and on the attached survey/site plan(s) is(are) accurate to the best of my knowledge.

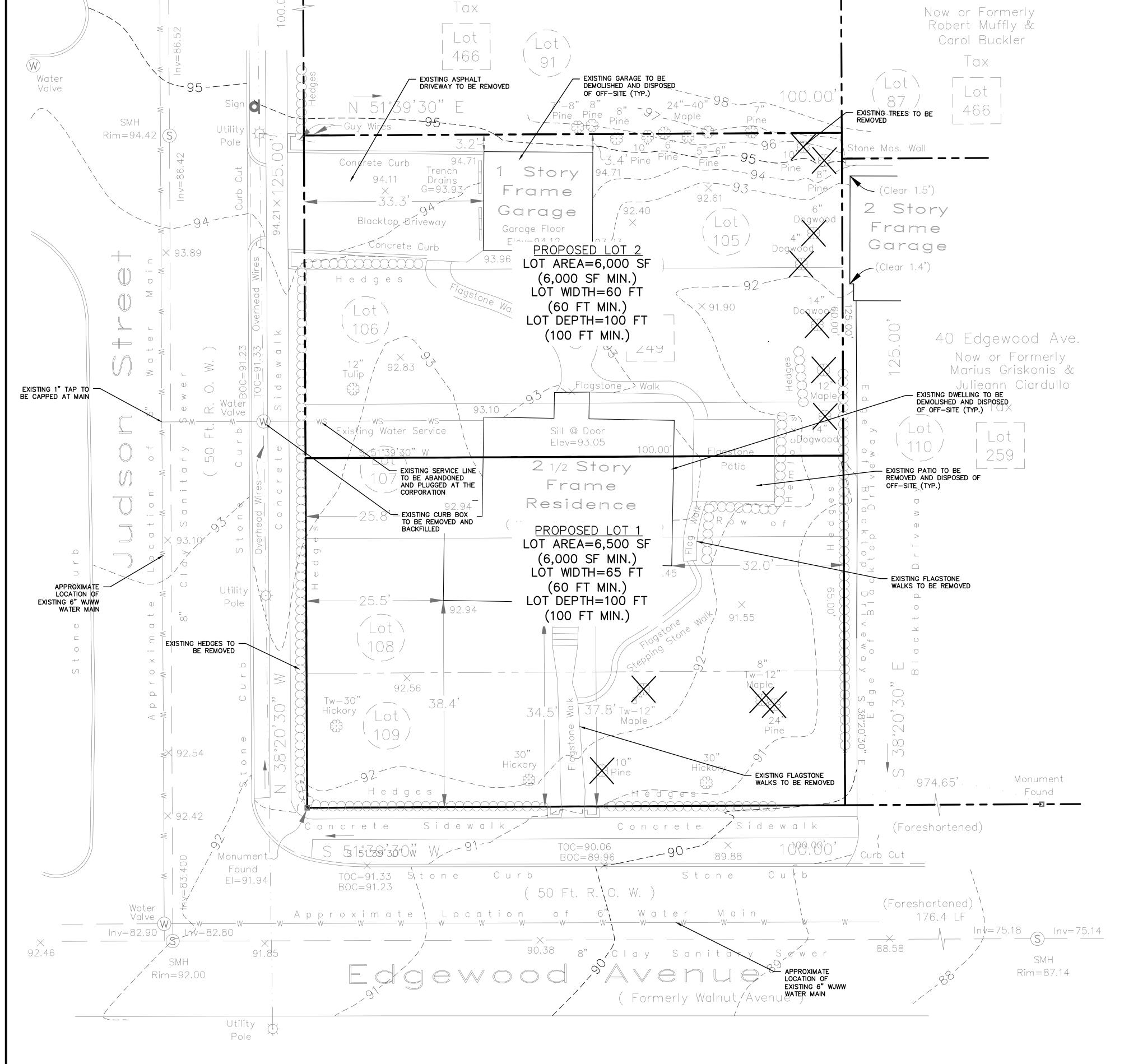
20	Signature of Applicant	
erent than the applicant)		
Fax:	Email:	
	erent than the applicant)	Signature of Applicant erent than the applicant)

I certify that I prepared this Coastal Assessment Form for the above described applicant and that the information contained on this form and on the attached survey/site plan(s) is(are) accurate to the best of my knowledge.

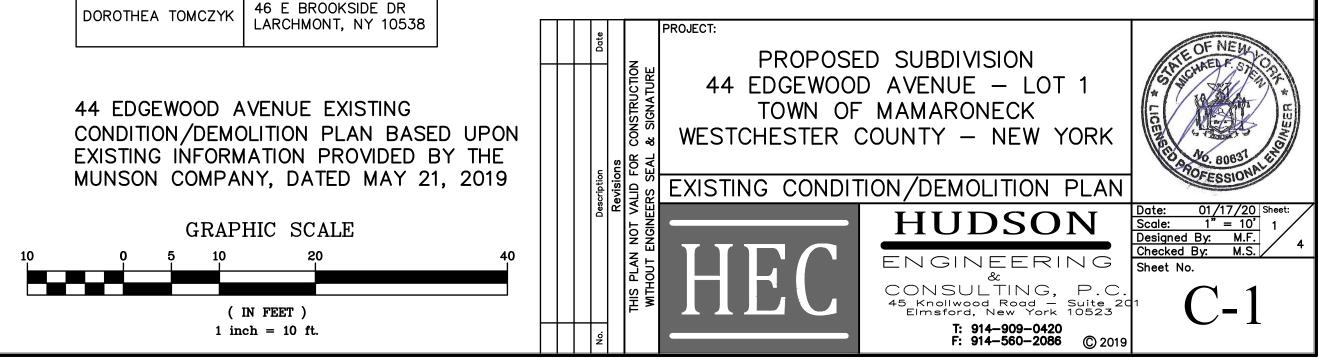
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Date: \_\_\_\_\_\_ 20 \_\_\_\_\_

Signature of Preparer



14 Judson Street



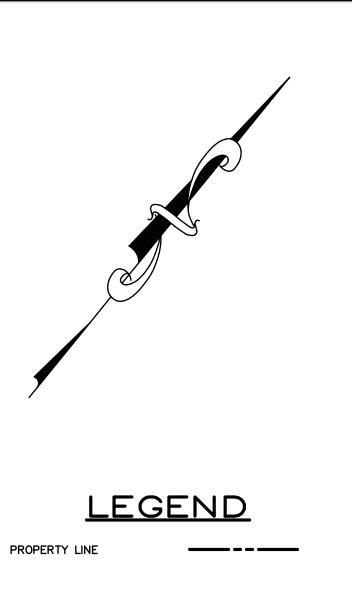
OWNER OF RECORD

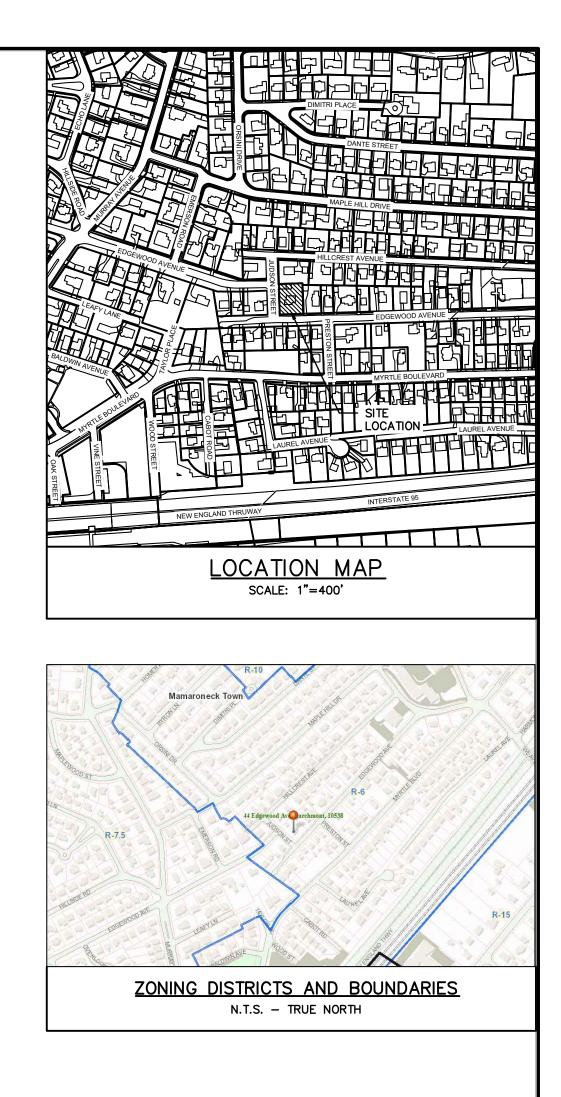
MAILING ADDRESS

NAME

Now or Formerly Andre & Jacqueline Kaplan

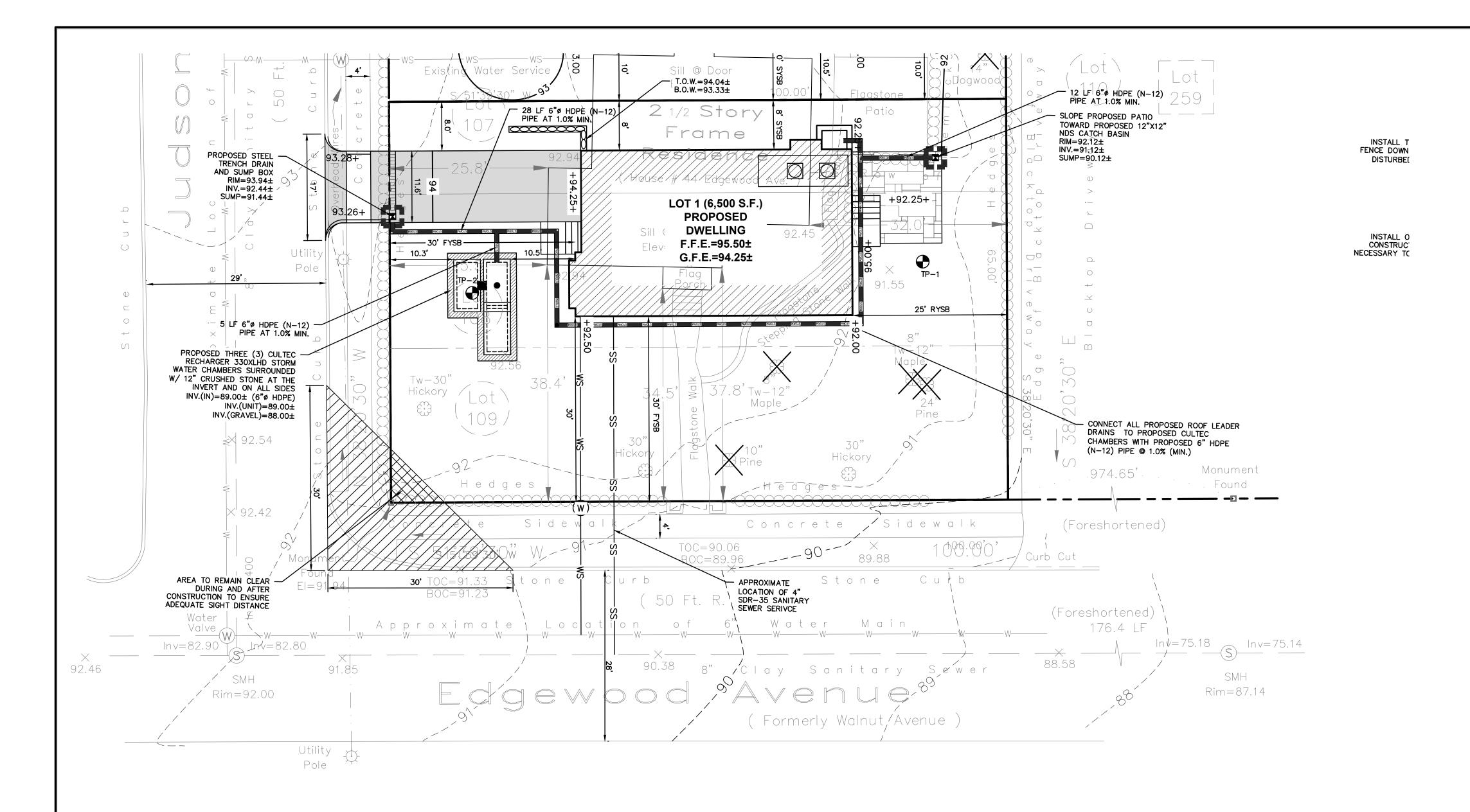
32 Hillcrest Ave.



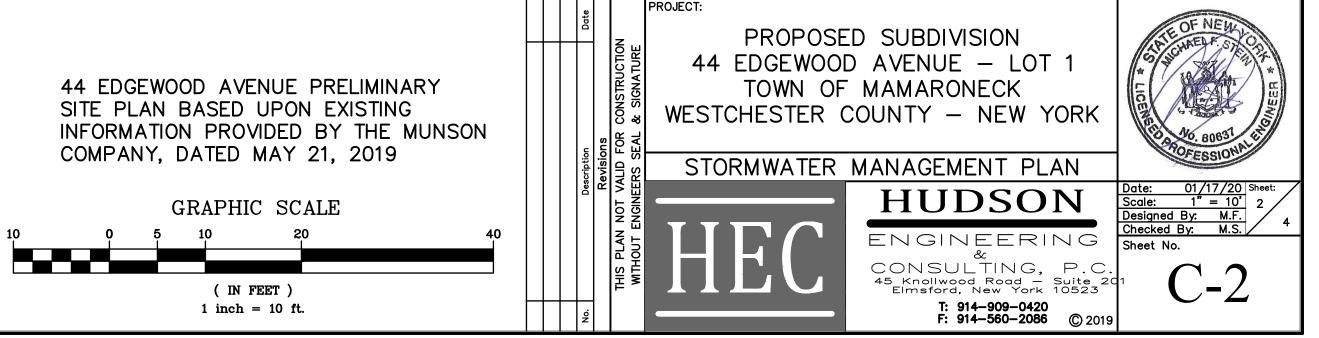


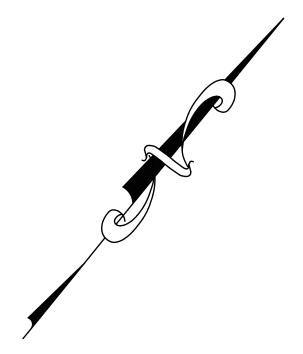
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- 14. INDUSTRIAL CODE RULE 753: THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO THE START OF HIS OPERATIONS AND SHALL COMPLY WITH ALL THE LATEST INDUSTRIAL CODE RULE 753 REGULATIONS.



ZONING ANALYSIS TABLE							
BLOCK: 123 LOT: 249.2	ZONE:	R-6 (Residenti	al Zoning)				
	Deguined	Eviatin a	Proposed				
REGULATION	Required	Existing	Lot 1				
Min. Lot Area (S.F.)	6,000	12,500	6,500				
Min. Lot Width (ft.)	60	100	65				
Min. Lot Depth (ft.)	100	100	100				
Min. Yards							
- Front (ft.)	30	37.8	30				
- Side (ft.)	8	32.0	8				
- Both Sides (ft.)	18	57.8	-				
- Rear (ft.)	25	42.03	25				
Height							
- Feet	35	≤ 35	28				
- Stories	2.5	2.5	2.5				
Max. Lot Coverage	35.0%	24.0%	24.2%				
Building Coverage (S.F.)	Per Lot Size	1,623	1,215				
Building Coverage (%)	Per Lot Size	37.8%	18.7%				





## LEGEND

PROPERTY LINE	• •
PROPOSED BELGIAN BLOCK CURB	
PROPOSED ASPHALT DRIVEWAY	
PROPOSED WALKWAY/PATIO	
PROPOSED CONTOUR	94
PROPOSED SPOT GRADE	+94.25
PROPOSED TRENCH DRAIN	
PROPOSED WATER SERVICE	
PROPOSED SANITARY SEWER SERVICE	ss
EXISTING WATER MAIN	W
EXISTING SANITARY	

SEWER MAIN

\_\_\_\_( S )\_\_\_\_

### **GENERAL NOTES:**

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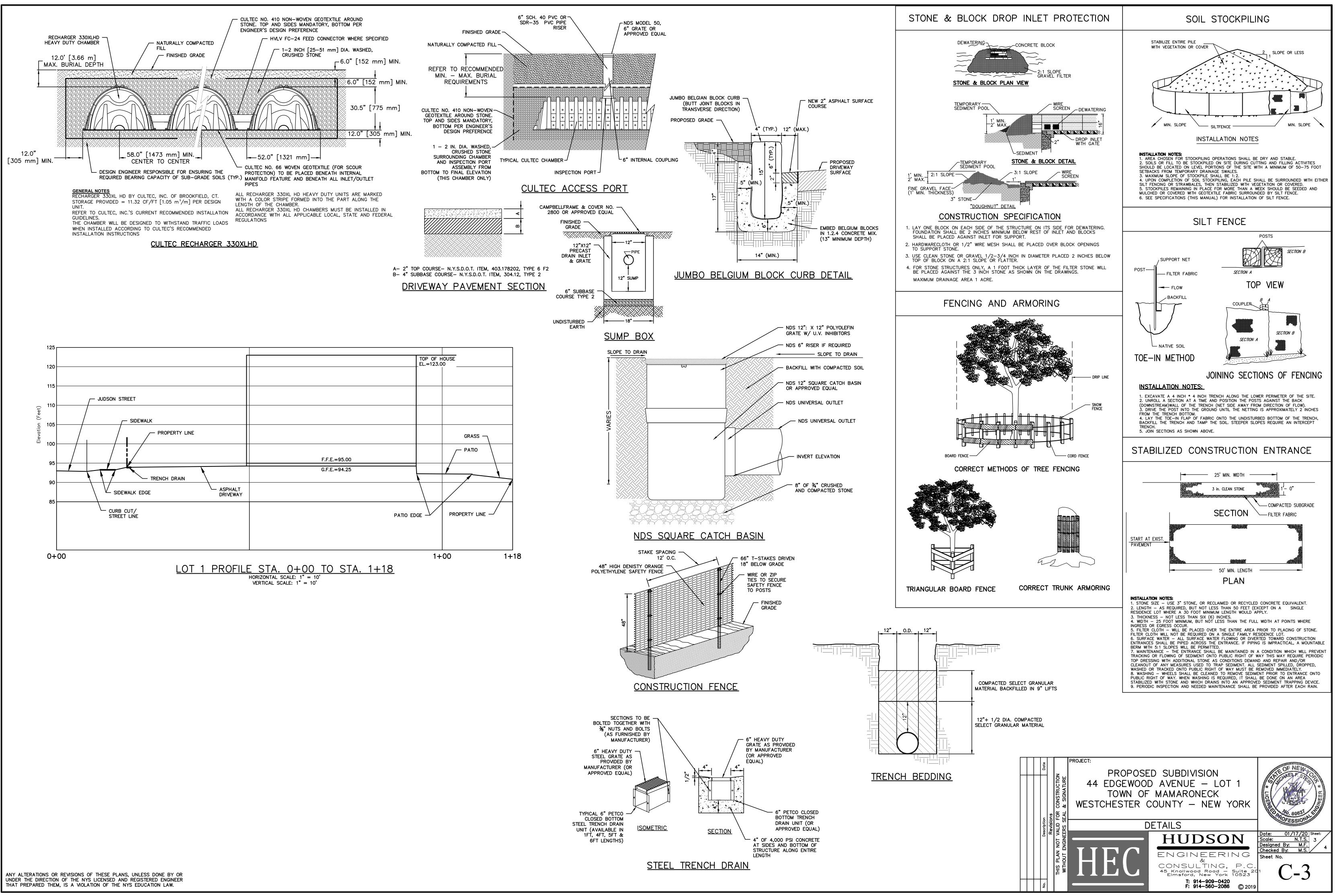
TEST HOLE DATA;

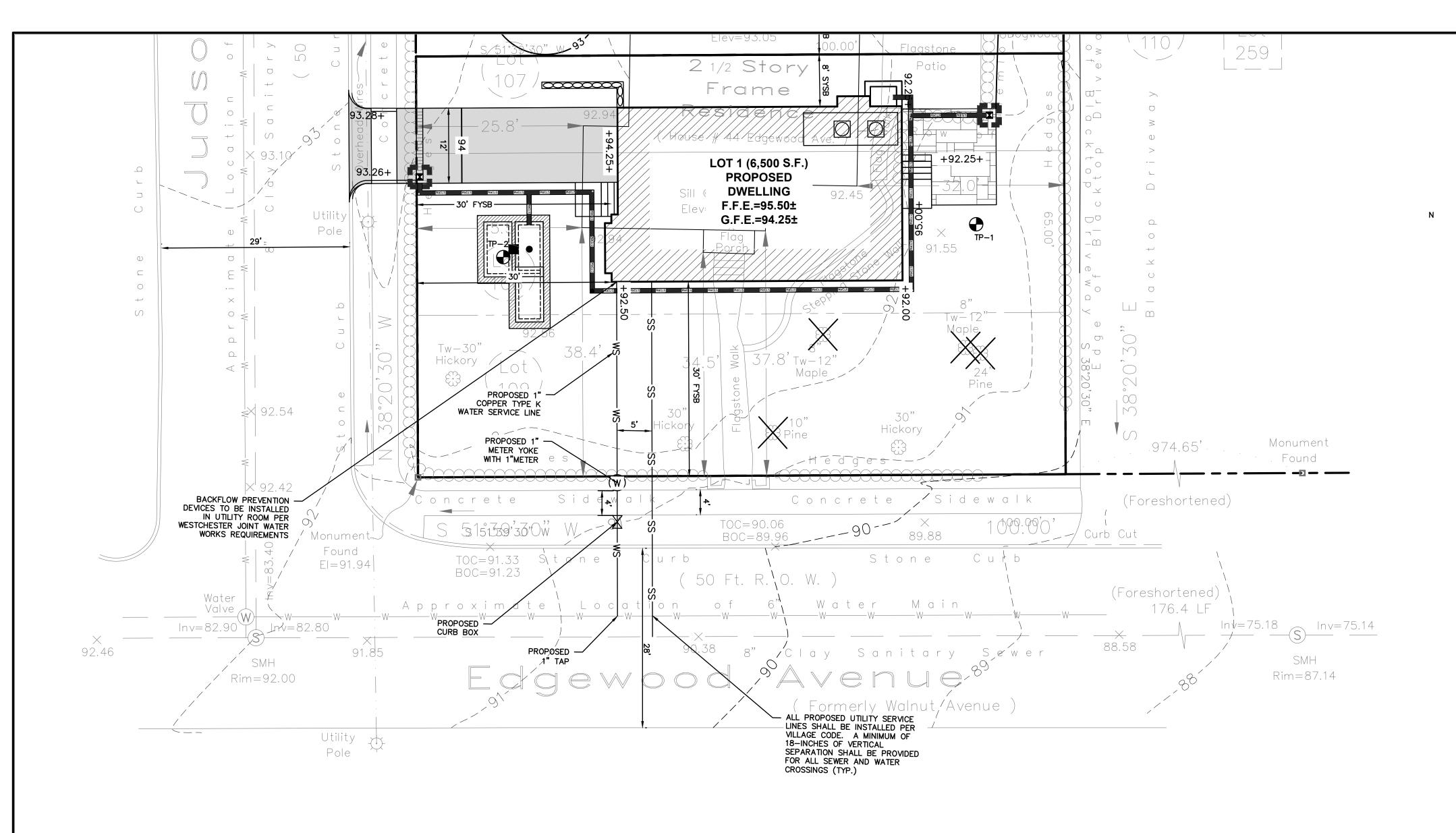
TEST HOLE #1 DEPTH - 78" 0-6" TOPSOIL

6-78" BROWN LOAM NO GROUNDWATER LEDGE ROCK AT 78" PERC. = 13.85" INCHES/HOUR

TEST HOLE #2 DEPTH – 84" 0-8" TOPSOIL 8-84" BROWN LOAM

NO GROUNDWATER LEDGE ROCK AT 84" PERC. = 11.25" INCHES/HOUR





PROPERTY LINE

DRIVEWAY

PROPOSED BELGIAN BLOCK CURB PROPOSED ASPHALT

PROPOSED WALKWAY/PATIO PROPOSED CONTOUR

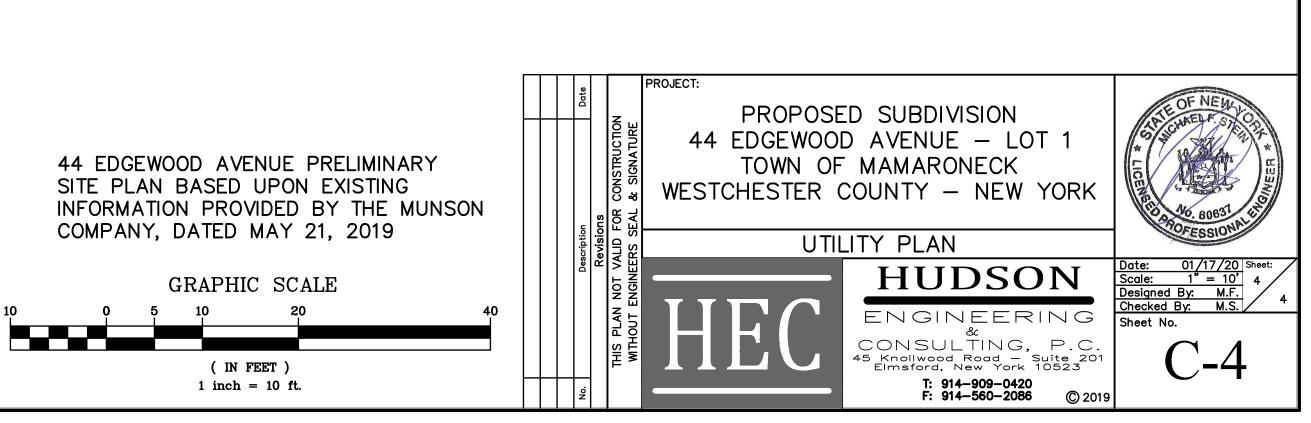
PROPOSED SPOT GRADE PROPOSED TRENCH DRAIN

PROPOSED WATER SERVICE

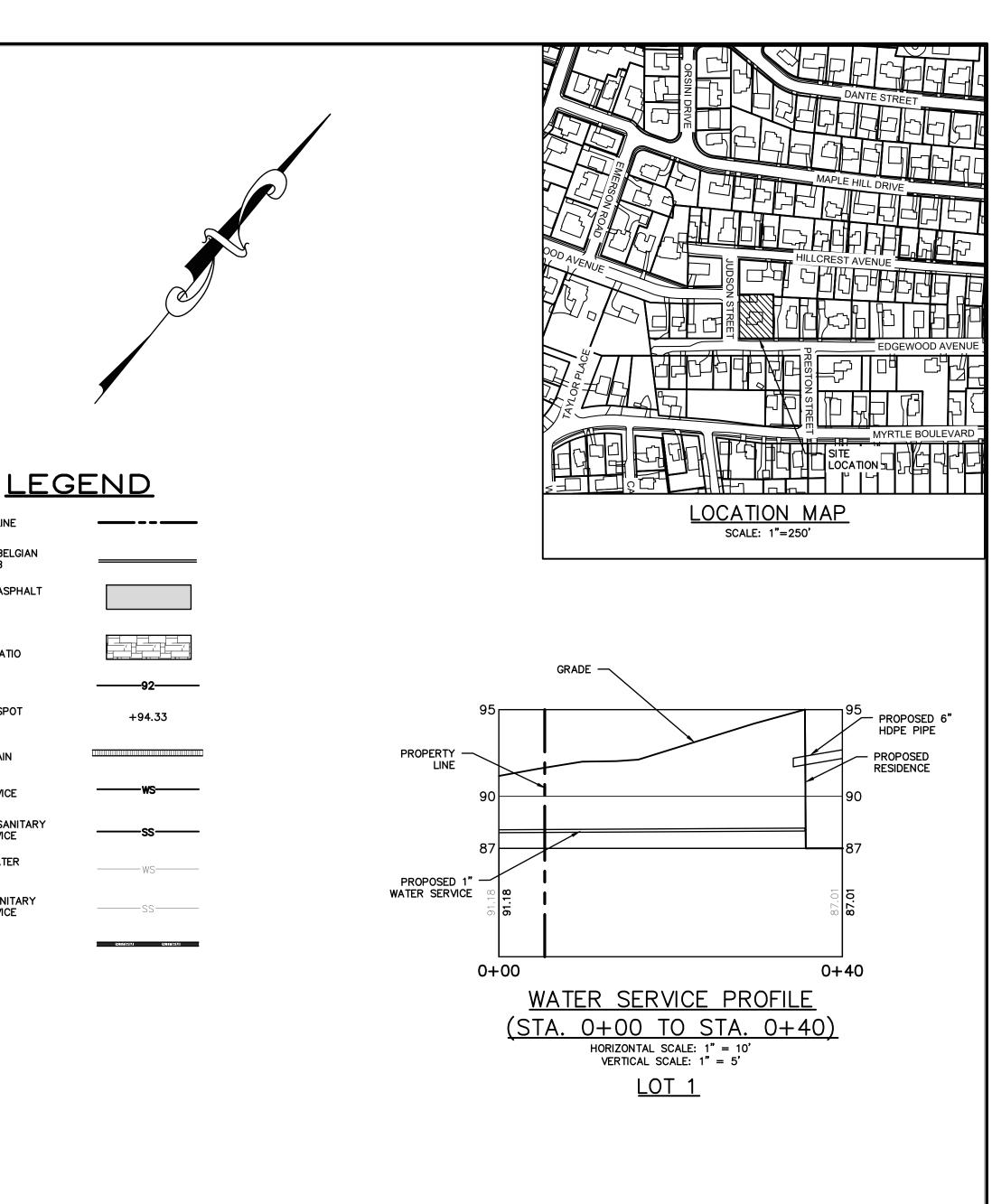
PROPOSED SANITARY SEWER SERVICE EXISTING WATER SERVICE

EXISTING SANITARY SEWER SERVICE PROPOSED STORM PIPE

NOTES: WILL BE BASED ON THE POTENTIAL HAZARD.



THE INSTALLATION OF BACKFLOW PREVENTION DEVICES SHALL BE REQUIRED IN ACCORDANCE WITH WJWW REGULATIONS. THE TYPE OF BACKFLOW DEVICE(S)



### Town of Mamaroneck - Village of Larchmont Coastal Assessment Form (CAF)

Applicants, or the appropriate municipal agency, shall complete this Coastal Assessment Form (CAF) for proposed actions which are subject to Local Consistency Review (see Waterfront Revitalization Law §§234-1 through 234-5 in the Code of the Town of Mamaroneck and §§292-1 through 292-4 in the Code of the Village of Larchmont). This assessment is intended to supplement other information used by the Bi-Municipal Coastal Zone Management Commission in making a determination of consistency with the Town of Mamaroneck and Village of Larchmont Local Waterfront Revitalization Program.

Upon completion of this form, it should be submitted as part of a complete application package for review. If assistance or further information is required for Town of Mamaroneck matters, please contact the Town of Mamaroneck Environmental Planner at (914) 381-7845. For Village of Larchmont matters, please contact the Village of Larchmont Building Inspector at (914) 834-6210.

### PLEASE PRINT OR TYPE ALL ANSWERS.

### A. GENERAL INFORMATION

Will the proposed action	be undertaken by a m	unicipal agency? Yes [ ] No [ ]
If yes, please list agency	or agencies and conta	ct person(s):
If no, please complete th	e applicant informatio	n.
Characte A. Jaharana		
•		Email
	Fax:	Email:
Location and ownershi	n of property for wh	ich action is proposed:
		Lot:
o 15		
Street Address		
City, State, Zip:		
Phone:	Fax:	Email:
Size of property (square	feet):	Is the property now developed? Yes [ ] No [ ]
Will project require a zo		
		][]

Describe any unique/unusua	landforms on th	e project site (rock	coutcroppings, swales, etc.)	:
----------------------------	-----------------	----------------------	------------------------------	---

Percentage of site which contains slopes of 25% or greater:	Percentage	of site	which	contains	slopes	of 25%	or greater:	
---	------------	---------	-------	----------	--------	--------	-------------	--

Are there streams, lakes, ponds or wetlands ex	sisting within or contiguous to the project area?
If so, describe (name, size, characteristics):	

Will the action require approval by a state or federal agency? Yes [ ] No [ ] If yes, specify which state or federal agency and attach a copy of pending application and any relevant information and/or documentation to this form:

### **B. DESCRIPTION OF SITE AND PROPOSED ACTION**

Provide a written description of the nature and the extent of the proposed action. Attach plans or additional information as necessary and/or required by application procedures.

### C. COASTAL ASSESSMENT

Check either "Yes" or "No" for each of the following questions:

1. Will the proposed action be located in, or contiguous to, or have a **potentially adverse effect** upon any of the following designated resource areas?

		Y	es	Ν	0	May	<b>be</b>
a.	Significant fish or wildlife habitat or designated critical environmental area	[	]	[	]	[	]
b.	Scenic resources of local significance	[	]	[	]	[	]
c.	Natural protective features in an erosion hazard area	[	]	[	]	[	]

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**NOTE:** If the answer to any of the above questions is "Yes", please explain in Section D any measures which will be undertaken to mitigate the adverse effects.

2. Will the proposed action have a **significant effect** upon:

		Yes	No	Maybe
a.	Commercial or recreational use of fish and wildlife resources	.[]	[ ]	[ ]
b.	Scenic quality of the coastal environment	.[ ]	[]	[ ]
c.	Development of future, or existing water dependent uses	.[ ]	[]	[ ]
d.	Land or water uses within a small harbor area	.[]	[ ]	[ ]
e.	Stability of the shoreline	.[]	[ ]	[ ]
f.	Surface or groundwater quality	.[ ]	[]	[ ]
g.	Existing or potential public recreation opportunities	.[]	[ ]	[ ]
h.	Structures, sites or districts of historic, archeological or cultural significance			
	to the local area, state or nation	.[]	[ ]	[ ]
3.	Will the proposed action <b>involve or result in</b> any of the following:			
		Yes	No	Maybe
a.	Physical alteration of land along the shoreline,			
	land underwater or coastal waters	.[ ]	[]	[ ]
b.	Expansion of existing public services or infrastructure in or near			
	undeveloped or low density areas of the coastal area?	.[ ]	[]	[ ]
c.	Filling, dredging, excavation or mining in coastal waters	.[]	[ ]	[ ]
d.	Reduction of existing or potential public access to or along the shore	.[]	[ ]	[ ]
e.	Development within a designated flood or erosion hazard area	.[]	[ ]	[ ]
f.	Development of a natural feature that protects against flooding or erosion	.[]	[ ]	[ ]
g.	Replacement of eroded sand or soil		[ ]	[ ]
h.	Construction or reconstruction of erosion protective structures	.[]	[ ]	[ ]
i.	Any change in surface or groundwater quality	.[]	[ ]	[ ]
j.	Removal of trees from the site	.[]	[ ]	[ ]
4.	Project details:			
		Yes	No	Maybe
a.	If the project is to be located adjacent to the shore:			

	6. Is the site located near a flood prone area	]	[	]	[	]
	7. Is the site located in an area of high erosion	]	[	]	[	]
b.	Is the site presently used by the community as an open space or					
	recreation area[	]	[	]	[	]
c.	Does the project site offer or include scenic views/vistas known to be					
	important to the community or the state	]	[	]	[	]
d.	Will the surface area of any waterways or wetland areas be increased or					
	decreased by the project	]	[	]	[	]
e.	Will the project involve any waste discharges into coastal waters	]	[	]	[	]
f.	Does the project involve discharge of toxins, hazardous substances or other					
	pollutants into coastal waters	]	[	]	[	]
g.	Will the project affect any area designated as a tidal or freshwater wetland[	]	[	]	[	]
h.	Will the project result in an alteration of drainage flow patterns or surface					
	water runoff on or from the site	]	[	]	[	]
i.	Will best management practices (BMPs) be utilized to control					
	stormwater runoff[	]	[	]	[	]
j.	Will any aspect of the proposed project result in emissions which exceed					
	federal or state air quality standards or generate significant amounts of					
	nitrates or sulfates[	]	[	]	[	]

### Please explain any of the above answers that may need further clarification in Section D.

### D. COMMENTS AND ADDITIONAL INFORMATION: (continue on back if necessary)

D.	COMMENTS	AND AD	DITIONAL	<b>INFORMATION:</b>	(continued)
----	----------	--------	----------	---------------------	-------------


I certify that I am the above described applicant and that the information contained on this form and on the attached survey/site plan(s) is(are) accurate to the best of my knowledge.

20	Signature of Applicant	
erent than the applicant)		
Fax:	Email:	
	erent than the applicant)	Signature of Applicant erent than the applicant)

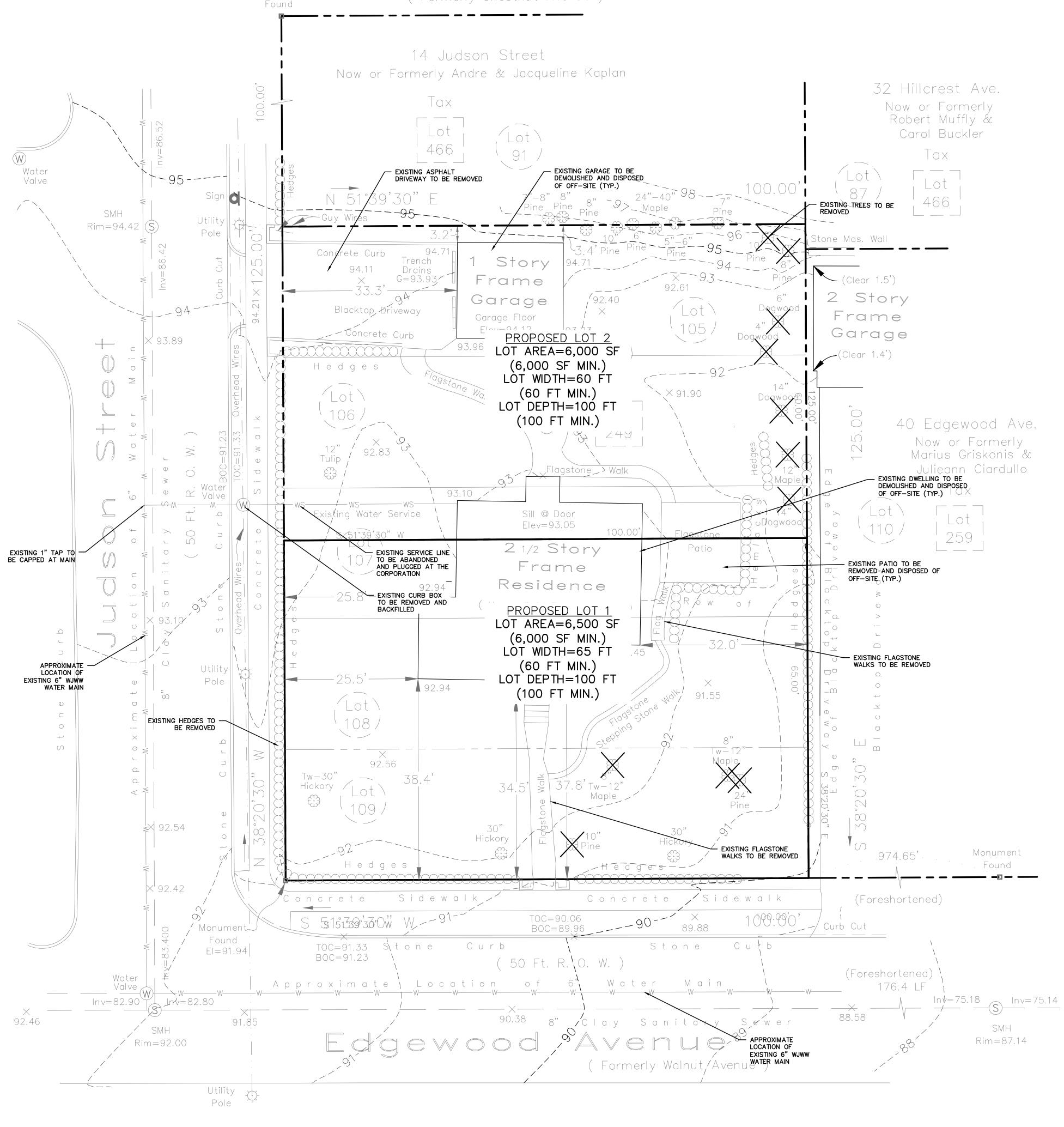
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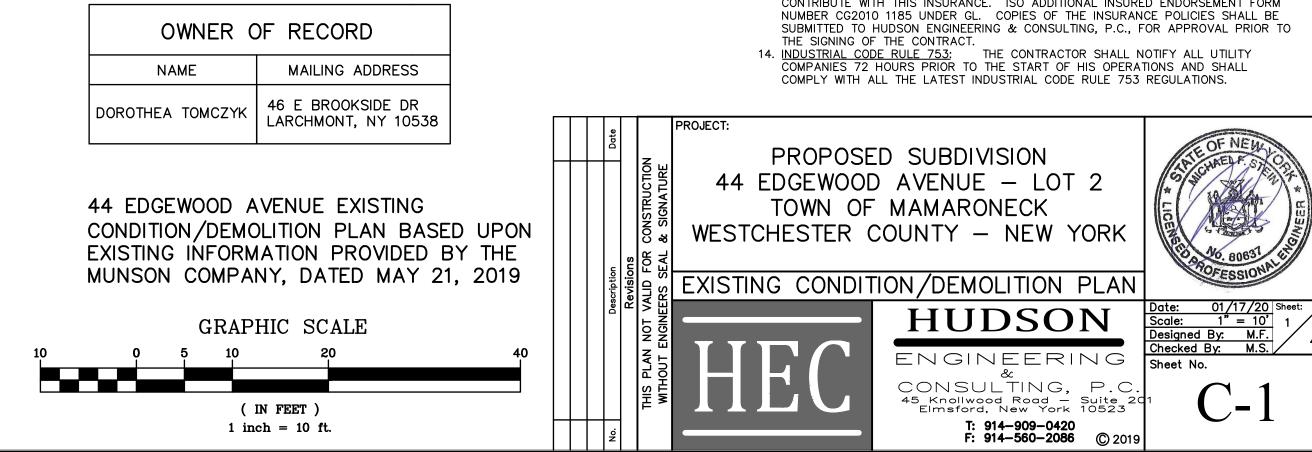
Date: \_\_\_\_\_\_ 20 \_\_\_\_\_

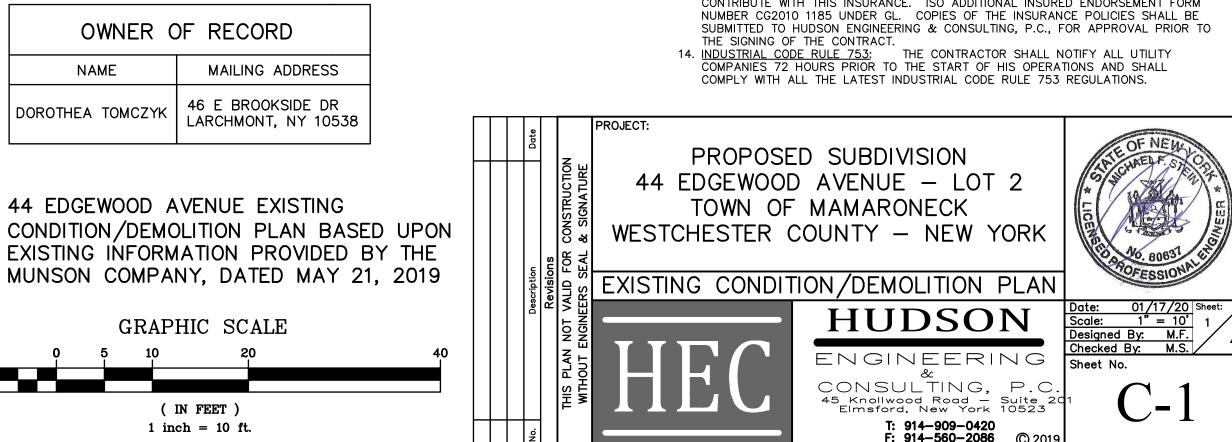
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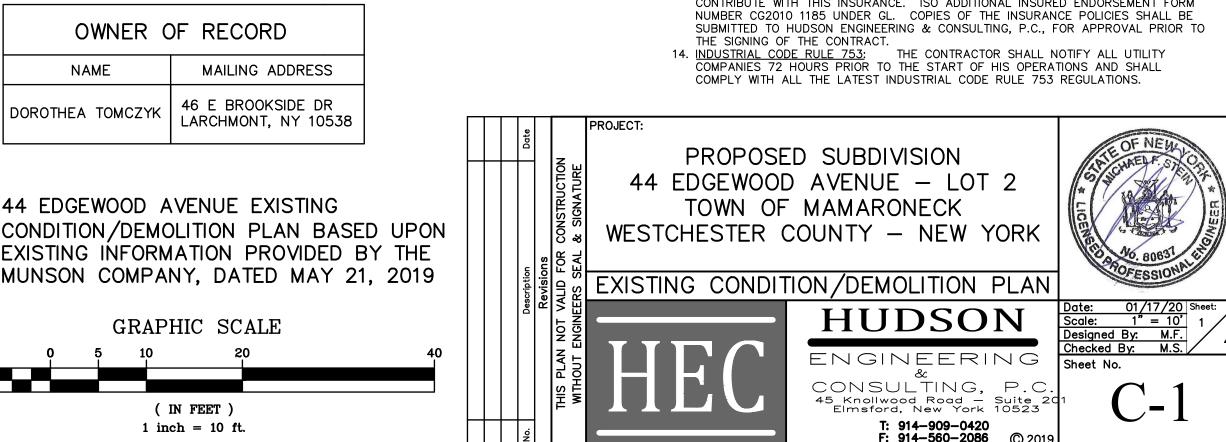




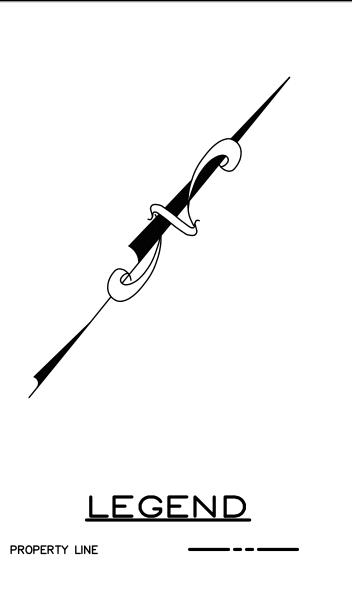
ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

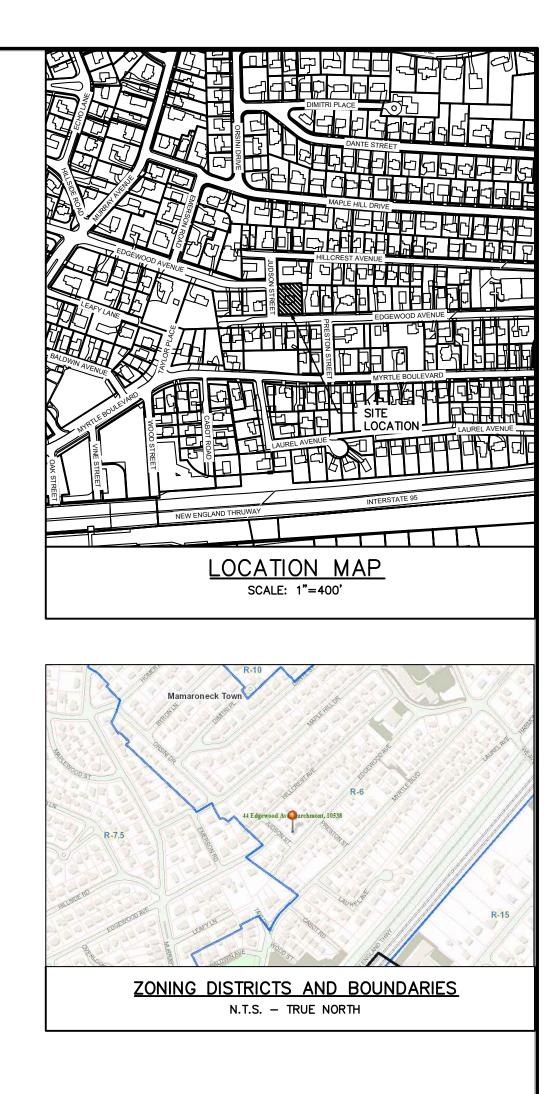






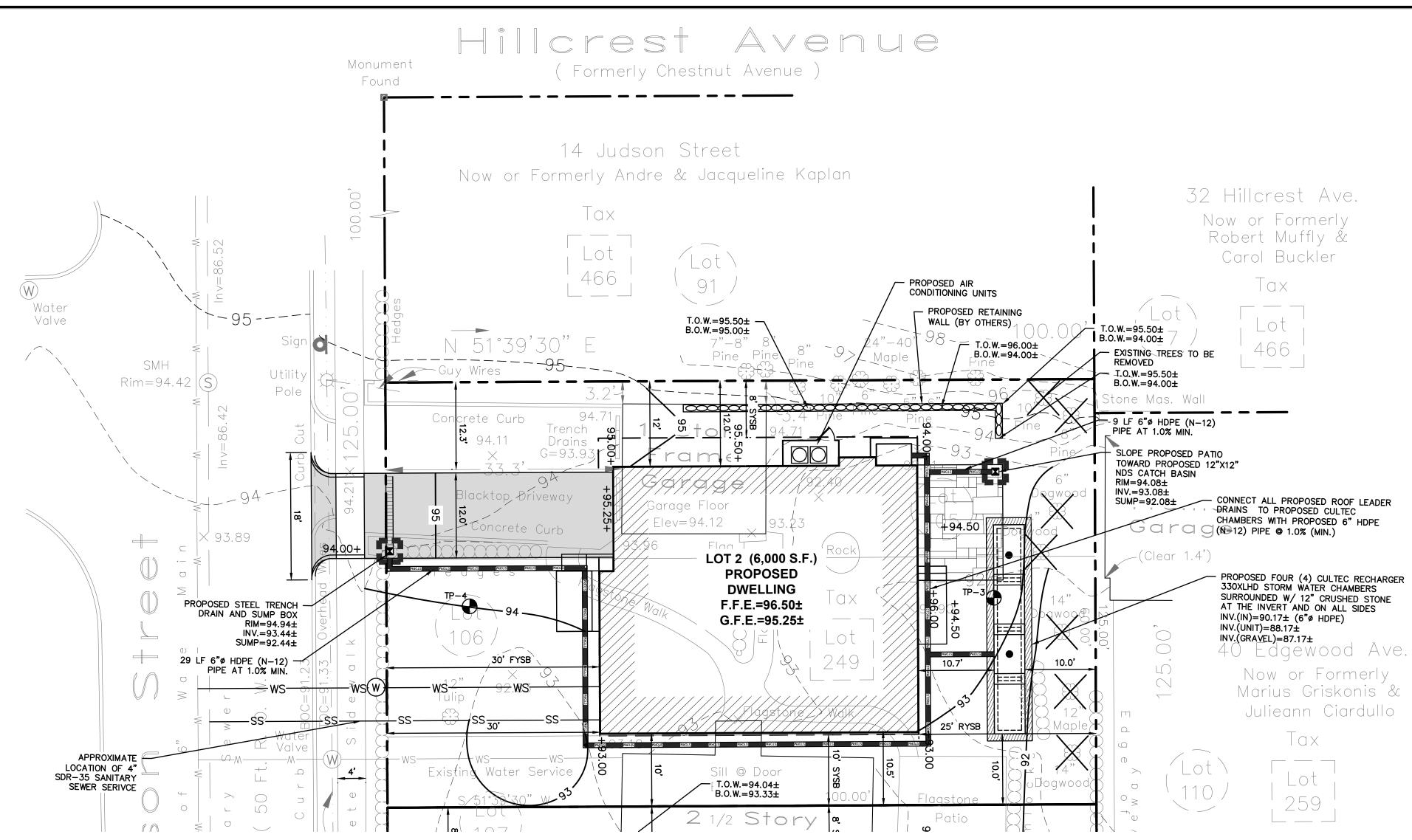






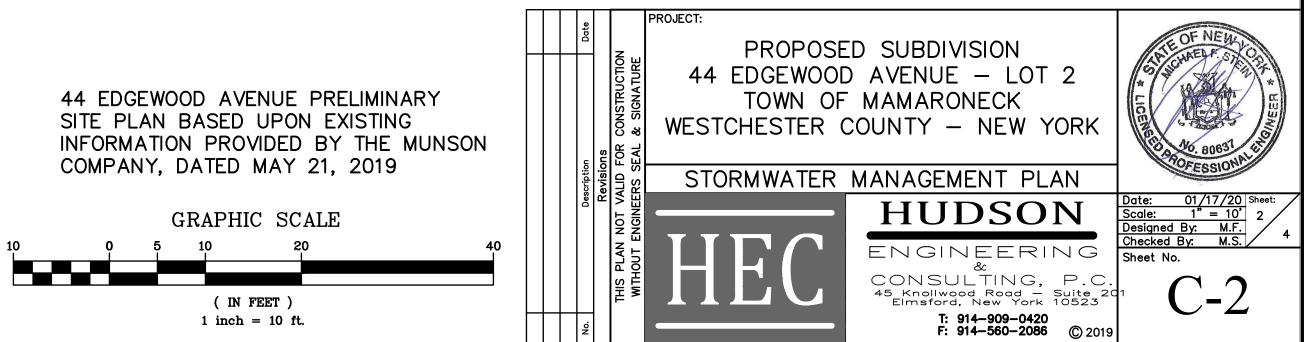
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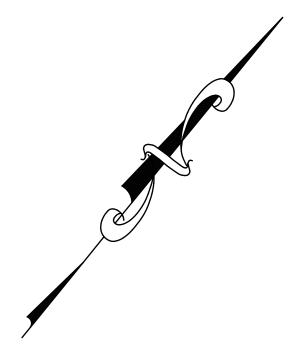
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BLOCK: 123 LOT: 249.2	ZONE:	ZONE: R-6 (Residential Zoning)			
	Dequired	Evicting	Proposed		
REGULATION	Required	Existing	Lot 2		
Min. Lot Area (S.F.)	6,000	12,500	6,000		
Min. Lot Width (ft.)	60	100	60		
Min. Lot Depth (ft.)	100	100	100		
Min. Yards					
- Front (ft.)	30	37.8	30		
- Side (ft.)	8	32.0	10.5		
- Both Sides (ft.)	18	57.8	22.5		
- Rear (ft.)	25	42.03	25		
Height					
- Feet	35	≤ 35	24.67		
- Stories	2.5	2.5	2.5		
Max. Lot Coverage	35.0%	24.0%	34.2%		
Building Coverage (S.F.)	Per Lot Size	1,623	1,667		
Building Coverage (%)	Per Lot Size	37.8%	27.8%		

### **ZONING ANALYSIS TABLE**





### LEGEND

PROPERTY LINE

PROPOSED BELGIAN BLOCK CURB PROPOSED ASPHALT

PROPOSED

DRIVEWAY

PROPOSED CONTOUR

WALKWAY/PATIO

PROPOSED SPOT GRADE

PROPOSED TRENCH DRAIN

PROPOSED WATER SERVICE

PROPOSED SANITARY SEWER SERVICE EXISTING WATER

MAIN

EXISTING SANITARY SEWER MAIN

+95.25

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**GENERAL NOTES:** 

- 1. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE SUPERVISION OF THE CONSTRUCTION.
- 2. NO CHANGES SHALL BE MADE TO THESE PLANS EXCEPT AS PER NYS LAW CHAPTER
- 3. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO ACI, AISC, ZONING, AND THE NEW YORK STATE BUILDING CODE. 4. ALL CONDITIONS, LOCATIONS AND DIMENSIONS SHALL BE FIELD VERIFIED AND THE
- ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES. 5. ALL CHANGES MADE TO THE PLANS SHALL BE APPROVED BY THE ENGINEER AND
- ANY SUCH CHANGES SHALL BE FILED AS AMENDMENTS TO THE ORIGINAL BUILDING PERMIT.
- 6. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND FROCEDORES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
  7. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND
- EMPLOYEES, AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTACT WITH THE CONTRACTOR.
- 8. SAFETY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL AGENCIES IN EFFECT DURING THE PERIOD OF CONSTRUCTION. 9. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL MAKE APPLICATION TO RECEIVE
- ALL NECESSARY PERMITS TO PERFORM THE WORK UNDER CONTRACT. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL BE LICENSED TO DO ALL WORK AS REQUIRED BY THE LOCAL, COUNTY, AND STATE AGENCIES WHICH MAY HAVE JURISDICTION OVER THOSE TRADES, AND SHALL PRESENT THE OWNER WITH COPIES OF ALL LICENSES AND INSURANCE CERTIFICATES. 10. FINAL GRADING AROUND THE BUILDING AREA SHALL SLOPE AWAY FROM THE
- STRUCTURE. 11. ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY
- SCALED DIMENSIONS. 12. ADJOINING PUBLIC AND PRIVATE PROPERTY SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION, REMODELING AND DEMOLITION WORK. PROTECTION MUST BE PROVIDED FOR FOOTINGS, FOUNDATIONS, PARTY WALLS, CHIMNEYS, SKYLIGHTS AND ROOFS. PROVISIONS SHALL BE MADE TO CONTROL WATER RUNOFF AND EROSION DURING CONSTRUCTION OR DEMOLITION ACTIVITIES. THE PERSON MAKING OR CAUSING AN EXCAVATION TO BE MADE SHALL PROVIDE WRITTEN NOTICE TO THE OWNERS OF ADJOINING BUILDINGS ADVISING THEM THAT THE EXCAVATION IS TO BE MADE AND THAT THE ADJOINING BUILDING SHOULD BE PROTECTED. SAID NOTIFICATION SHALL BE DELIVERED NOT LESS THAN 10 DAYS PRIOR TO THE SCHEDULED STARTING DATE OF THE EXCAVATION.
- 13. OWNER SHALL INSURE THAT THE INSURANCE PROVIDED BY THE CONTRACTOR HIRED TO PERFORM THE WORK SHALL BE ENDORSED TO NAME HUDSON ENGINEERING & CONSULTING, P.C., AND ANY DIRECTORS, OFFICERS, EMPLOYEES, SUBSIDIARIES, AND AFFILIATES, AS ADDITIONAL INSURED ON ALL POLICIES AND HOLD HARMLESS DOCUMENTS, AND SHALL STIPULATE THAT THIS INSURANCE IS PRIMARY, AND THAT ANY OTHER INSURANCE OR SELF-INSURANCE MAINTAINED BY HUDSON ENGINEERING & CONSULTING, P.C., SHALL BE EXCESS ONLY AND SHALL NOT BE CALLED UPON TO CONTRIBUTE WITH THIS INSURANCE. ISO ADDITIONAL INSURED ENDORSEMENT FORM NUMBER CG2010 1185 UNDER GL. COPIES OF THE INSURANCE POLICIES SHALL BE SUBMITTED TO HUDSON ENGINEERING & CONSULTING, P.C., FOR APPROVAL PRIOR TO
- THE SIGNING OF THE CONTRACT. 14. INDUSTRIAL CODE RULE 753: THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO THE START OF HIS OPERATIONS AND SHALL COMPLY WITH ALL THE LATEST INDUSTRIAL CODE RULE 753 REGULATIONS.

TEST HOLE DATA;

TEST HOLE #3 DEPTH – <sup>"</sup>98**"** 0-8" TOPSOIL 8-98" BROWN LOAM GROUNDWATER AT 94" LEDGE ROCK AT 98" PERC. = 25.7" INCHES/HOUR

TEST HOLE #4 DEPTH – <sup>"</sup>40" 0-6" TOPSOIL 6-40" BROWN LOAM NO GROUNDWATER LEDGE ROCK AT 40" PERC. = NOT PERFORMED

