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TOWN OF CARMEL PLANNING BOARD



60 McAlpin Avenue Mahopac, New York 10541 Tel. (845) 628-1500 – Ext.190 www.ci.carmel.ny.us MICHAEL CARNAZZA

Director of Code

Enforcement

RICHARD FRANZETTI, P.E.,BCEE Town Engineer

PATRICK CLEARY, AICP,CEP,PP,LEED AP Town Planner

PLANNING BOARD AGENDA FEBRUARY 8, 2024 – 7:00 P.M.

TAX MAP # PUB. HEARING MAP DATE COMMENTS

PUBLIC HEARING

1. Carmel Terminals – 79 Old Route 6, Carmel 55.11-1-23,24,27 2/8/24 1/24/24 Open Public Hearing (Amended Site Plan)

RESOLUTION

2. Pani, Fabian – 112 Stillwater Road 75.17-1-52 12/10/23 Regrading Application

SITE PLAN

3.	Veolia (formerly Suez) Water – Mahopac Wells	75.20-2-68	1/19/24	Site Plan
4.	Union Energy Center, LLC – 24 Miller Road	86.11-1-14	1/29/24	Site Plan
5.	Rosamilia, Massimo & Robert – 585 Union Valley Rd	87.8-1-2 & 3	1/16/24	Site Plan

SUBDIVISION

6.	Shllaku Development, Inc. – 345 Austin Road	64.9-1-13	1/26/24	Sketch Plan – 2 lots
7.	Kass Subdivision – 90 Mexico Lane	532-17	8/31/23	Sketch Plan – 2 lots

Web: www.anzny.com

January 25, 2024

Planning Board Town of Carmel 60 McAlpin Avenue Mahopac, NY 10541 Attn: Craig Paeprer, Chairman

Re: Veolia (formerly Suez) Water

Mahopac Wells Tax Lot 75.20-2-68

Dear Chairman Paeprer and Honorable Board Members,

Veolia and the Hunter's Run HOA have negotiated an agreement where the HOA has agreed to approve the proposed project if Veolia makes certain changes to the proposed plans. Those changes include relocating the proposed treatment building approximately 62 feet to the south of the originally proposed location, a 5' reduction in the current peak elevation of the treatment building, the removal of the existing treatment trailer, and a robust landscaping plan, amongst other things. The attached site plans reflect the changes agreed to by Veolia and the HOA.

The following is our response to Richard J. Franzetti, P.E., letter dated March 8, 2022:

General Comments

- 1. Comment: The following referrals are required:
 - a. New York State Department of Environmental Conservation (NYSDEC).
 - b. Putnam County Department of Health (PCDOH).
 - c. The Town of Carmel Environmental Conservation Board (ECB).
 - d. The Town of Carmel Highway Department.
 - e. Mahopac Fire Department.

The applicant has previously noted these referrals.

4870 Mahopac Wells c&r 1-25-24_Engineer

Page 1

Response: No response required.

- 2. Comment: The following permits are required.
 - a. NYSDEC for stormwater and wetlands.
 - b. PCDOH for well and treatment system.
 - c. Town of Carmel Highway- work permit.
 - d. ECB for wetlands.

The applicant has previously noted these permit requirements.

Response: No response required.

3. Comment:

The area of disturbance for the work as provided is now 2.07 acres. The threshold criteria of disturbances for the NYSDEC stormwater regulation are between 5,000 square feet and one (1) acre and over one (1) acre. The project will require coverage under the NYSEC SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-20-001) and the development of Stormwater Pollution Prevention Plan (SWPPP) that has permanent stormwater controls.

The applicant has provided a SWPPP, but not for the updated area of disturbance. This document will need to be updated.

The applicant should further note that the threshold for NYCDEP stormwater is 2 acres. A SWPPP will need to be submitted for review and approval by the NYCDEP.

Applicant has noted that a cut and fill analysis will be provided.

Response:

The area of disturbance has been revised to 0.994 acres. This has been noted on sheet 4 – grading plan. An updated SWPPP is being provided with this submission for review by the Town Engineer. Cut fill analysis along with a note regarding fill has also been provided on sheet 4.

4. Traffic and Vehicle Movement Plans should be provided which provide the following:

a. Comment: Slopes at the entrance way need to be defined. It is suggested that slopes of

less than 6% be used for the first 20 feet of entry and that slopes of no greater than 8% be used entering the site. Please refer to AASHTO

guidelines for commercial properties.

A driveway profile should be provided.

Response: Driveway plan profile off of Bucks Hollow Road has been provided.

Entrance conforms with AASHTO requirements. Refer to sheet 4. Asphaltic concrete pavement detail has been updated to match Town's driveway

specification (see sheet 4).

5. Comment: All easement information regarding the areas for the proposed underground

utility service must be provided.

Applicant has provided easement information. This should be reviewed by

Planning Counsel.

Response: No response required.

6. Comment: Should any public improvements be deemed necessary as part of the

development of the tract, a Performance Bond and associated Engineering Fee must eventually be established for the work. The applicant will need to

develop a quantity take off for bonding purposes.

The applicant has noted this requirement. The applicant should note that a Performance Bond and associated Engineering fee is minimally required for

the stormwater management practices, erosion and sediment control

drainage features, landscaping etc. installed on the site. Please see §156-61 J and K of the Town Code for additional information.

Response: No response required.

Detailed Comments

1. Comment:

The rain garden locations have been provided. The applicant should note that they must meet the criteria as defined by the NYSDEC. This includes providing sufficient depth to groundwater.

Applicant indicated that the calculation will be provide prior to construction. Minimally these calculations will need to be provided/approved as part of the Planning Board approval. The applicant has noted that testing for groundwater will be performed as soon as weather permits.

Rain gardens areas should be shown on the drawing as protected.

Response:

Comment:

The drainage plans have been updated to provide a proposed dry pond (see sheet 1). Depth to groundwater has been showcased in the dry pond detail provided on sheet 5.

2. Comment:

3.

The wastewater report should provide loading values (#/dy) for the proposed system.

The applicant has provided a wastewater report. The report should provide the parameters in alphabetical order.

Response: Updated wastewater report has been provided with this submission.

Details for the proposed connection into the Town of Carmel Sewer

system must be provided.

Applicant has provided some additional information which is currently under review. The drawings provided in the water discharge package should be provided as a full size set and included as part of the overall submittal package.

Response: A full size set of these drawings has been provided with this submission.

The following comments are generic and are only applicable if being installed by the

applicant, notes should be added to the drawing as needed:

4. Comment: Gate valves shall be AWWA non-rising stem type, as manufactured by

Mueller Company, Model A-2360-23, or approved equal, conforming to the latest AWWA Standard for Gate Valves - 3" through 48" - for Water and

Other Liquids, AWWA Designation C-509.

Response: No response required.

5. Comment: Sizes up to and including 12" shall be 250 psi working pressure. The valve

body and bonnet shall be ductile iron. All interior and exterior metal surfaces shall be coated with a two-part thermo setting epoxy complying

with AWWA C550.

Response: No response required.

6. Comment: Valves shall have dual "O" ring seals, inside screw, resilient wedge seats in

accordance with AWWA Designation C-550 and shall be constructed so as to provide unobstructed full port clearance when fully open and immediate complete closure when closed. The ends of the valves shall be mechanical

joint.

Response: No response required.

7. Comment: All valves shall be arranged to open in counterclockwise direction unless

otherwise specifically indicated and operating nuts shall be 2" square.

Response: Veolia valves are arranged to open in a clockwise direction.

8. Comment: Valves shall be tested to a pressure of not less than two times the working

pressure.

Response: No response required.

9. Comment: All hydrants shall be six inches in size with six-inch mechanical joint inlet

connection and shall be equal to the Mueller Centurion A-421, with one (1)

4 $\frac{1}{2}$ " pumper nozzle and two (2) $2\frac{1}{2}$ " hose nozzles.

Response: Veolia's standard is the Sigelock Systems Spartan 300. Hydrants will be

green in color to signify they are only for company use.

10. Comment: Water Service Saddles shall be equal to those manufactured by Mueller,

Model 7 ½" x 1" SS Series Stainless Steel Saddle, Double Stud.

Response: No response required.

11. Comment: Corporation stops shall be equal to those as manufactured by Mueller

Company, Model B- 25000Series, NRS and of the size required. Such corporation stops shall meet the requirements of AWWA Specification No.

C800.

Response: No response required.

12. Comment: Curb valves (stops) shall be equal to those as manufactured by Mueller

Company, Model H-15214 and shall conform to AVVWA Specification

No. C800.

Response: No response required.

13. Comment: Curb boxes shall be equal to those as manufactured by Mueller Company

and similar to Mueller extension type with arch pattern base model H-

10314 all extension rods shall be stainless steel.

Response: No response required.

14. Comment: All fire hydrants shall be the approved AWWA type fire hydrants in

conformance with the American Water Works Association Standard for Fire Hydrants for Ordinary Water Works Service, AWWA Designation C502, and shall have a 5-1/4" valve opening, a 6" mechanical joint inlet complete with an auxiliary gate valve (close coupled), a 6" mechanical joint

shoe, and all appurtenances.

Response: No response required.

15. Comment: Fire hydrants shall be rated for a working pressure of 250 Psi. Fire

hydrants shall be sized for a 4'-6" bury.

Response: No response required.

Comment: Applicant has noted these comments. The only exception is comment 11

where the Veolia standard is to open right.

Response: Applicant takes exception to comment 7 and 9. Please see the responses to

these comments above.

SUEZ Water New York, Inc.

PFAS COMPLIANCE PROJECT F MAHOPAC WELLS

Putnam County, New York

TOWN OF CARMEL WASTEWATER DISCHARGE PERMIT PACKAGE

SUEZ Water New York Inc. 162 Old Mill Road West Nyack, NY 10944

Prepared by:



January 2024

Project Number: 068577

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APPENDICES

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APPENDIX B – Design Drawings

APPENDIX C - Backwash Laboratory Results



1. PROJECT DESCRIPTION

1.1. Background

Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) are chemical substances that have been used for decades to manufacture firefighting foam and many common household and consumer products the public uses frequently, including non-stick cookware, fast food packaging, adhesives, paints, shampoo and cosmetics. In late August 2020, the State of New York adopted new drinking water standards that set a Maximum Contaminant Level (MCL) of 10 ppt for these substances in drinking water.

To comply with these new MCLs, SUEZ Water New York, Inc. (SWNY) plans to construct a treatment facility at the existing Mahopac Well site. The planned upgrade will not increase the firm capacity of the wells but add Granular Activated Carbon (GAC) as treatment to remove the PFOS and PFOA prior to entering the distribution system and ensuring compliance with the new regulations. To maintain effectivity, Greensand filters will also be installed to remove the excess iron and manganese from the water and will serve to prevent solids from plugging the GAC and requiring regular backwashing. As a result, the GAC will only be backwashed when it is replaced. SWNY will use frac tanks to contain the spent backwash water during the carbon installation/ replacement process. Backwash from the proposed Greensand filters decant tank is proposed to be discharged into the existing Town's sewer through a new sewer connection.

A pilot system using the well with the highest level of iron and manganese is currently at the site. This pilot system has been used to confirm proof of concept for the iron and manganese removal, as well as to provide specimens to analyze the water quality makeup of both the effluent and the backwash waste. The backwash waste information is presented below as well as the quality of backwash that will enter the Town's sewer system per day.

1.2. Existing Conditions

Mahopac Wells 1, 2, & 3 are located in a residential area 150 feet southwest of 34 Coventry Circle, Mahopac, Putnam County, New York and serve approximately 300 customers. The site is surrounded by Federal and State wetland areas. It is also located in an area with confirmed bog turtle and bat habitats.

The well water comes from three constant speed well pumps that convey water into a 34,200-gallon above ground finished water storage tank. Well No. 2 has been closed for production until iron and manganese mitigation is achieved. An existing temporary iron and manganese treatment trailer is currently in place at the Well No. 2 location. Existing on-site control includes the ability to operate the site remotely through the SCADA system.

The Mahopac Well site has a capacity of 130 gpm that will not be increased. The Standard Industrial Classification (SIC) Code for this facility is 4941, which corresponds to facilities primarily engaged in distributing water for domestic, commercial, and industrial use.



2. PROPOSED SYSTEM

The proposed treatment system will include upsizing of the well pumps. The well water will be conveyed by three variable speed well pumps into Greensand filtration units. Raw water will be dosed with sodium hypochlorite for oxidation before passing thru the filtration units. Backwash waste is transferred to a decant tank to separate the sludge. Decant water is recycled back to the inlet of the Greensand units and sludge will be discharge into the existing sewer thru a new sewer connection.

Following the Greensand units, the water shall pass through the GAC treatment system. Backwash water from the GAC treatment system will be transferred to a frac tank. The treated water will be dosed with sodium hypochlorite after treatment to achieve proper chlorination and will be transferred into an off-site 34,200-gallon aboveground finished water storage tank before distribution.

Sodium hypochlorite will be housed in two 50-gallon double walled chemical storage tanks.

Design drawings for the proposed treatment system are included in Appendix B.

2.1. Greensand Filtration System

A Greensand Plus Catalytic Filtration System will be provided to remove iron and manganese in the well water. Filtration will be provided via four vertical Greensand plus pressure filters operated in parallel and capable of automatic backwashes to clean the media. A 7,400-gallon decant tank for backwashing waste, along with sludge and decant pumps with associated piping and valves, are also included with the system.

Table 1 below summarizes the Greensand filtration criteria.

Table 1. Greensand Filtration Criteria

DESCRIPTION	MAHOPAC WELLS
Number Of Greensand Plus Vessels	4 (3 In Parallel And 1 Redundant)
Vessel Diameter (in)	42
Service Flow (gpm)	130
Filter Surface Area (ft ²)	9.62
Design Surface Loading Rate (gpm/Ft ²)	4.5
Backwash Rate Max Per Vessel (gpm @50f)	125
Rinse Rate (gpm)	130
Vessel Pressure Rating (psi)	150
Total Media Content (ft ³)	120
Backwash Duration	15 Min Plus A 2 Min Rinse



Backwashing is typically performed once every 24 to 48 hours depending on the contaminant levels. It can be performed sequentially or be set to go off at predetermined times. A maximum daily flow of 588.5 gal will be discharge into the sewer in a 6 hour batch, flow calculations are presented below:

Backwash Rate=	125	gal/min*vessel
No. Vessels=	3	vessels
Backwash Duration=	15	min
Backwash Flow=	5625	gal
Rinse Rate=	130	gal/min
Rinse Duration=	2	min
Rinse Flow=	260	gal
Total Flow to Decant Tank=	5885	gal
1 VVIII 1 VVII 1	0022	9
90% Recycled=	5296.5	gal
10% Sewer Discharge=	588.5	gal

3. WATER QUALITY

The temporary iron and manganese treatment system pilot is currently being operated at the Mahopac Wells site. On August 4, 2021, September 3, 2021, and November 22, 2021 representative samples were taken and tested from the backwash water line. Results are included in Appendix C and summarized in Table 2 below.

Table 2. Backwash Test Results

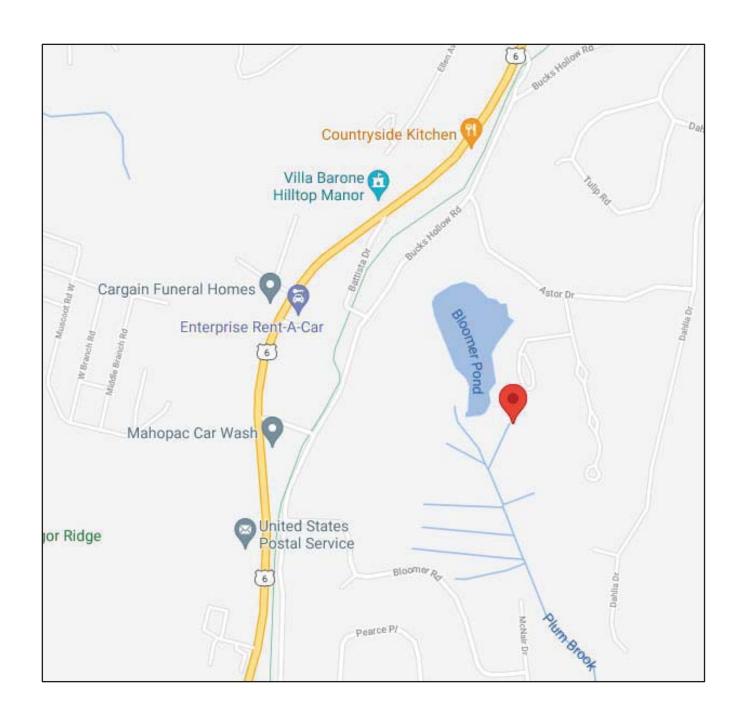
PARAMETER	RESULTS AUGUST SAMPLE	RESULTS SEPTEMBER SAMPLE	RESULTS NOVEMBER SAMPLE
Ammonia as Nitrogen (lb/day)	0.0008	0.00047	-
Arsenic (lb/day)	-	< 0.000009	-
BOD/5day (lb/day)	< 0.0186	< 0.186	-
Cadmium (lb/day)	-	< 0.000005	-
Chlorine Demand (lb/day)	0.0093	-	-
Chromium (lb/day)	-	0.000019	-
COD (lb/day)	0.275	-	-
Copper (lb/day)	-	0.0001	-



PARAMETER	RESULTS AUGUST SAMPLE	RESULTS SEPTEMBER SAMPLE	RESULTS NOVEMBER SAMPLE
Iron (lb/day)	-	-	0.163
Lead (lb/day)	-	0.000014	-
Manganese (lb/day)	-	0.0717	0.239
Mercury (lb/day)	-	< 0.0000009	-
Molybdenum (lb/day)	-	< 0.000017	-
Nickel (lb/day)	-	0.000061	-
Nitrogen (lb/day)	0.0028	-	-
Oil and Grease (lb/day)	< 0.0065	< 0.0065	-
рН	7.92	-	-
Phosphorus as P (lb/day)	0.0005	0.00095	-
Selenium (lb/day)	-	< 0.000023	-
Silver (lb/day)	-	0.000009	-
Total Cyanide (lb/day)	-	< 0.000093	-
Total Suspended Solids (lb/day)	0.466	0.978	-
Zinc (lb/day)	-	0.00137	-



APPENDIX A LOCATION MAP



MAHOPAC WELLS
LOCATION MAP

APPENDIX B CIVIL AND PROCESS DESIGN DRAWINGS

FULL SIZE DRAWINGS HAVE BEEN PROVIDED

SUEZ WATER NEW YORK INC

ONLY CIVIL AND PROCESS DRAWINGS INCLUDED

PUTNAM COUNTY, NEW YORK

PFAS COMPLIANCE MAHOPAC WELLS



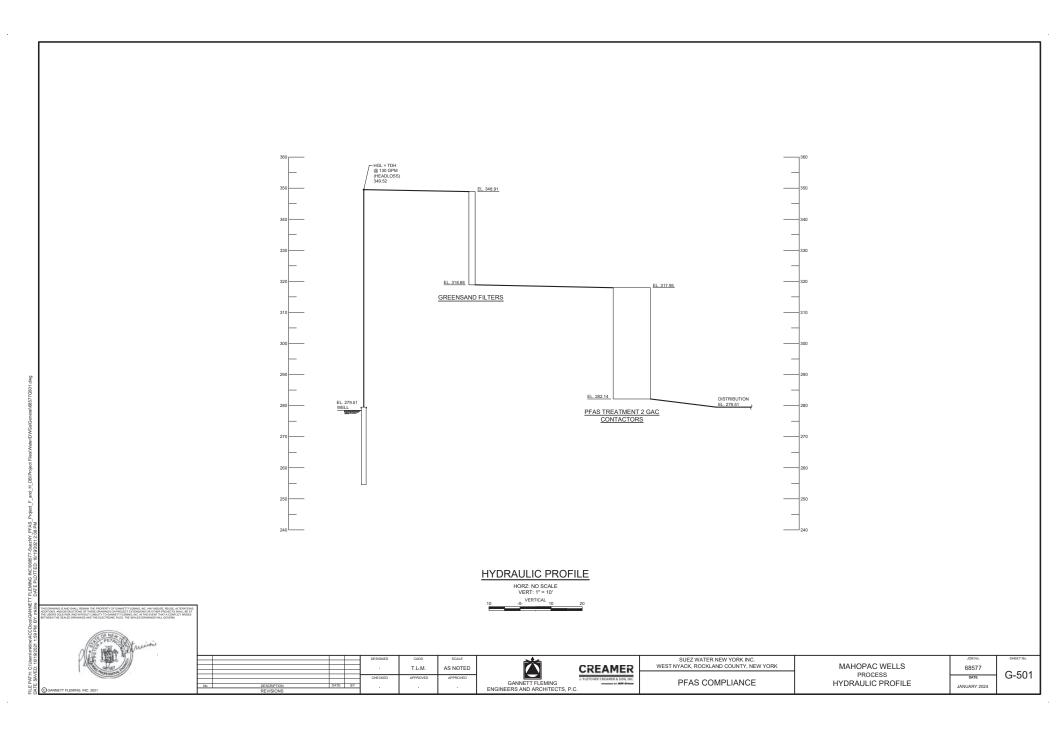
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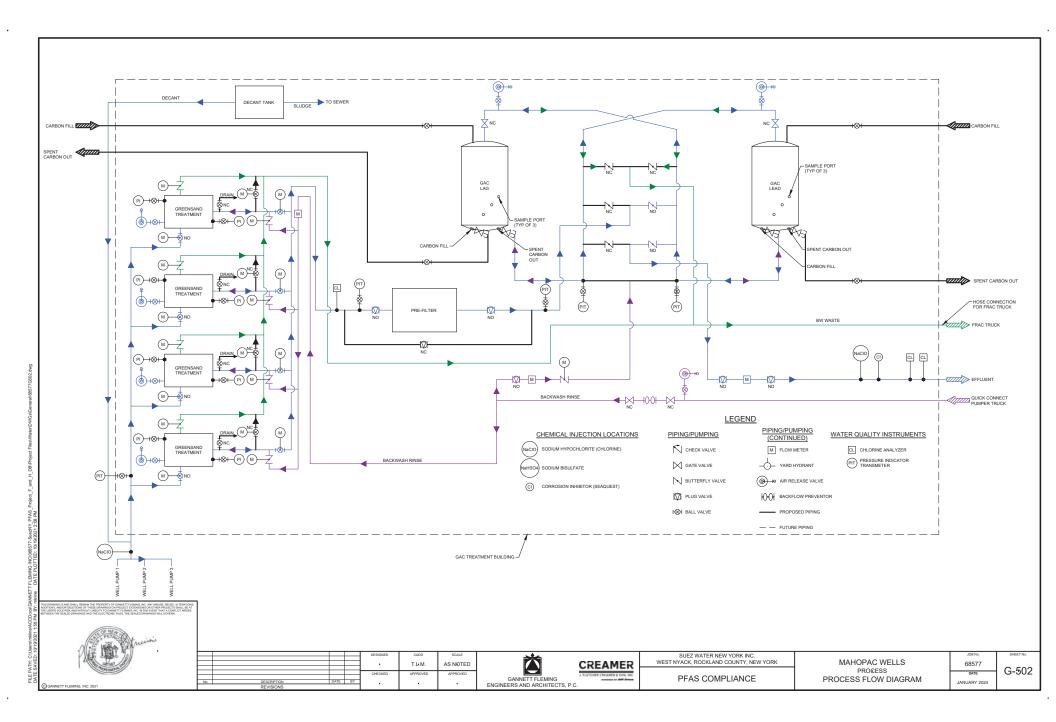
JANUARY 2024





EMING INCLOSESTA Suezvy PFAS_Project_F_and_H_DBIProject Files/WaterIDW Gs/GenerallDOH Permitt857





SHADED FACILITIES

MASONRY WALL (PLANS AND SECTIONS) FILL CONCRETE (USED ON SECTIONS) REINFORCED CONCRETE (USED ON SECTIONS) DEMOLITION

STABILIZED TURF CIVIL/SITE SYMBOLS

0 AIR RELEASE MANHOLE BM NO.1 BENCH MARK • BORING BUTTERFLY VALVE AND VALVE BOX CATCH BASIN/INLET N CHECK VALVE Λ CONTROL POINT \boxtimes EXISTING GAS VALVE EXISTING GAS CURB BOX M GATE VALVE AND VALVE BOX φ-HYDRANT ġ LIGHT 0 MANHOLE $\overline{\circ}$ _ SIGN

UTILITY POLE ð TEST PIT 000 TREES, BUSHES AND SHRUBS

0

0

Ø

0 WATER CURB BOX

 EXISTING WATER VALVE \otimes

ANY BORINGS, SOUNDINGS, TEST PILES. SUBSURFACE CONDITIONS AND LOCATIONS OF AND NATURE OF EXISTING UT ANU NA LURE OF EXISTING UNDERGROUND STRUCTURES SHOWN OR INDICATED ON THIS DRAWING ARE FOR THE INFORMATION OF THE OWNER AND IN NO EVENT IS THIS INFORMATION TO BE CONSIDERED AS PART OF THE CONTRACT. SEE PROJECT MANUAL.

THIS SHEET IS FOR CIVIL/SITE SYMBOLS AND ARREVIATIONS ONLY REFER TO ARCHITECTURAL STRUCTURAL, PROCESS, INSTRUMENTATION MECHANICAL AND ELECTRICAL DRAWINGS FOR SYMBOLS AND ABBREVIATIONS FOR THAT WORK

EXISTING LINE WORK

A — AIR LINE BITUMINOUS ROAD SURFACE AND DRIVES — CENTER LINE CONCRETE SIDEWALK OR RETAINING WALL —— DITCH STREAM OR SWALE ____ × ____ FENCE — — 550 — — FIVE FOOT CONTOUR INTERVAL GAS MAIN AND VALVE

----- MISCELLANEOUS UTILITY - - - TWO FOOT CONTOUR INTERVAL

OVERHEAD FLECTRIC LINE OVERHEAD TELEPHONE LINE — - - PROPERTY LINE

----- RIGHT-OF-WAY LINE — S — SANITARY SEWER AND MANHOLE — ≈ — ≡ ≈ — STORM SEWER AND INLET

 SOIL BOUNDARY LINE — uge — uge — UNDERGROUND ELECTRIC CABLE

── w ── w ── WATER MAIN AND VALVE WOOD OR VEGETATION LINE

PROPOSED LINE WORK

 PROPOSED PIPE (4" DIA. AND LARGER" PROPOSED PIPE (3" DIA. AND SMALLER) STORM SEWER AND INLET - - - PROPERTY LINE ----- RIGHT-OF-WAY LINE ---- TEMP CONSTRUCTION FASEMENT LINE 2:1 GRADING SLOPE SLOPE DIRECTION

LINE COMPOSITION

PROPOSED FACILITIES SHOWN WITH HEAVIER AND BOLDER LINE WORK WITH CALLOUTS IN UPPERCASE LETTERS. EXISTING FACILITIES SHOWN WITH LIGHT LINE WORK WITH CALLOUTS IN UPPER AND LOWERCASE

> Existing Callout PROPOSED CALLOUT

CIVIL SHEET REFERENCE LEGEND



1. ALL ELEVATIONS REFER TO U.S.G.S. NAVD 88 DATUM.

2. HORZONTAL CONTROL IS BASED UPON STATE PLANE COORDINATE SYSTEM.

3. INFORMATION SHOWN HEREIN IS BASED ON FIELD SURVEY PERFORMED BY ATZI. NASHER &

 FROM INVESTIGATIONS AND FIELD SURVEYS, IT IS ASSUMED THAT LOCATIONS OF PHYSICAL CONDITIONS, UTILITIES, ETC., ARE APPROXIMATE AND THE NATURE OF MATERIALS IS NOT GUARANTEED

5. THE CONTRACTOR SHALL BE REQUIRED TO VERIFY ALL CONDITIONS AND DIMENSIONS OF THE JOB SITE BEFORE PROCEEDING WITH THE WORK AND SHALL MAKE MINOR ADJUSTMENTS AS REQUIRED ON THE JOB. SUCH ADJUSTMENTS ARE TO BE APPROVED BY THE ENGINEER AND THE OWNER.

6. LOCATION AND DEPTH OF EXISTING UTILITY LINES INCLUDING SERVICES SHALL BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF THE NEW UTILITIES CONSTRUCTION. EXTREME CARE SHALL BE EXERCISED WHEN EXCAVATION EQISTING UTILITY LINES, HAND EXCAVATION ONLY WILL BE PERMITTED IN THE VICINITY OF EXISTING PIPES ANDIOR CONDUITS. ANY DAMAGE TO UTILITIES SHALL REPAIRED BY CONTRACTOR AT NO ADDIONAL COST TO OWNER.

7. THE CONTRACTOR SHALL SUSTAIN IN THEIR PLACES AND PROTECT FROM DIRECT OR INDIRECT INJURY ALL PIPES, CONDUITS, TRACKS, UTILITY POLES, GUIDE RAILS, GUARD POSTS, WALLS, FOUNDATIONS, BUILDINGS, AND OTHER STRUCTURES OF PROPERTY IN THE VICINITY OF HIS WORK, WHETHER ABOVE OR BELOW GROUND, OR THAT MAY APPEAR IN THE TRENCH. PIPES AND UNDERGROUND CONDUITS EXPOSED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE ADEQUATELY SUPPORTED ALONG THEIR ENTIRE EXPOSED LENGTHS.

AT POINTS OF CONNECTION, CONTRACTOR SHALL EXPOSE EXISTING WATER MAINS TO VERIFY
LOCATION, GEOMETRY, AND MATERIAL REQUIREMENTS PRIOR TO ORDERING MATERIALS OR STARTING
CONSTRUCTION OF ANY MAIN CONNECTING THERE TO.

CIVIL/SITE ABBREVIATIONS **GENERAL ABBREVIATIONS**

ę.	-	CENTERLINE	BIT	-	BITUMINOUS
CMU	-	CONCRETE MASONRY UNIT	CB	-	CATCH BASIN
DIA	-	DIAMETER	CC	-	CHEMICAL CONDUIT
EC	-	ELECTRICAL CONTRACT	CIR	_	CIRCLE
EL or ELEV	-	ELEVATION	CM	-	CONCRETE MONUMENT
EX	_	EXISTING	D	-	DRAIN
FT	-	FOOT OR FEET	DR	_	DRIVE

INSIDE DIAMETER G GAS GAS CURB BOX GV GAS VALVE MAXIMUM MECHANICAL CONTRACT HYD HYDRANT

FIRE HYDRANT

NETWORK CABLE

PROPERTY LINE

POINT ON LINE

POINT OF VERTICAL TANGENT

SHORT WATER SERVICE

LINDERGROUND ELECTRIC

WATER VALVE

UNDERGROUND TELEPHONE

MINIMUM MIN IRON PIN MACADAM NA NOT APPLICABLE MAC NOT TO SCALE МН MANHOLE NTS OD OUTSIDE DIAMETER M.I MECHANICAL JOINT

OF OVERHEAD ELECTRICAL PI ATE SHEET OT OVERHEAD TELEPHONE

NC

POL

PVT

STATION PC POINT OF CURVE TYPICAL WATER PI POINT OF INTERSECTION

POB POINT OF BEGINNING POE POINT OF ENDING LOX LIQUID OXYGEN

PT POINT OF TANGENT **MATERIAL** POINT OF VERTICAL CURVE ALUMINUM

ASBESTOS CEMENT PIPE RD ROAD CAST IRON R.I RESTRAINED JOINT CAST IRON PIPE

CISP CAST IRON SOIL PIPE RAW WATER CORRUGATED METAL PIPE SANITARY SEWER CPVC CHI ORINATED POLYVINYI, CHI ORIDE PIPE

SD STORM DRAIN CH COPPER SEG DI SS STORM SEWER

DIP DUCTILE IRON PIPE ST FIBERGLASS REINFORCED PLASTIC FRP SWS

GI GAI VANIZED IRON LIGE GLDIP GLASS LINED DUCTILE IRON PIPE UGT

HDPE HIGH DENSITY POLYETHYLENE PCCP PRESTRESSED CONCRETE CYLINDER PIPE WARG WEDGE ACTION RETAINING GLAND

CROSS-LINKED POLYETHYLENE WCB WATER CURB BOX PVC POLYVINYL CHLORIDE PIPE ws WATER SERVICE

CIVII

RCCP REINFORCED CEMENT CONCRETE PIPE SS STAINLESS STEEL

SUEZ WATER NEW YORK INC. WEST NYACK ROCKLAND COUNTY NEW YORK

GC

ID

MAX

MC

SHT

SQ

STA

TVP

w

CI

CIP

GENERAL CONTRACT

LIQUID NITROGEN

GENERAL NOTES, LEGENDS AND ABBREVIATIONS

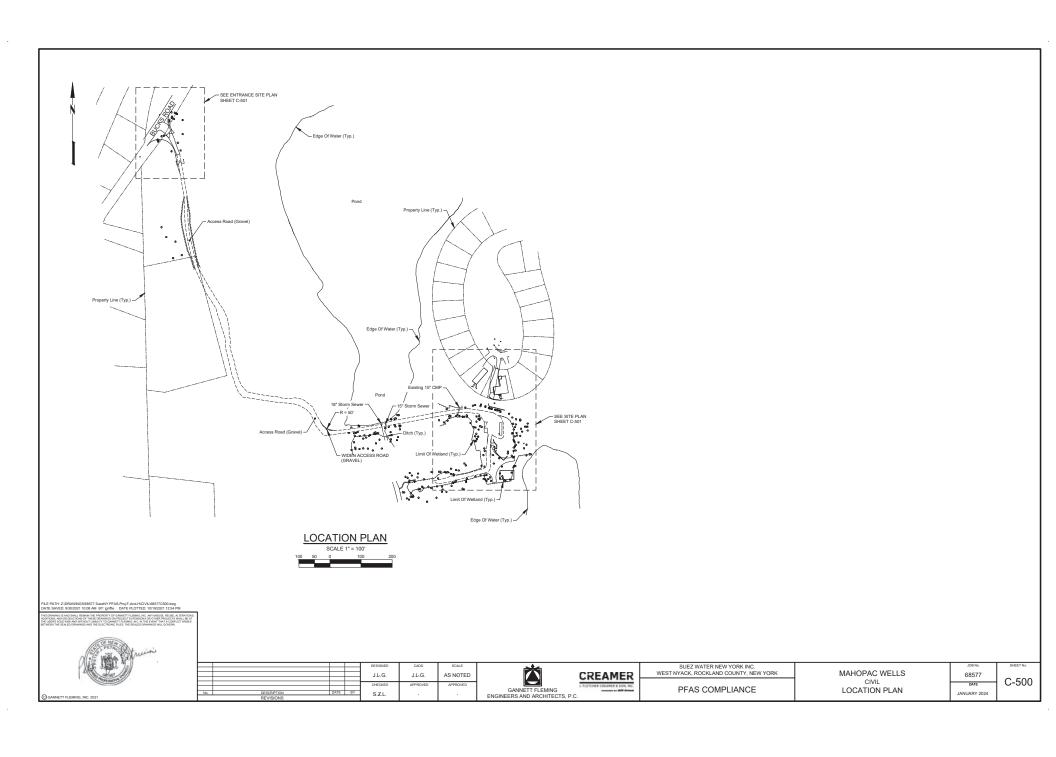
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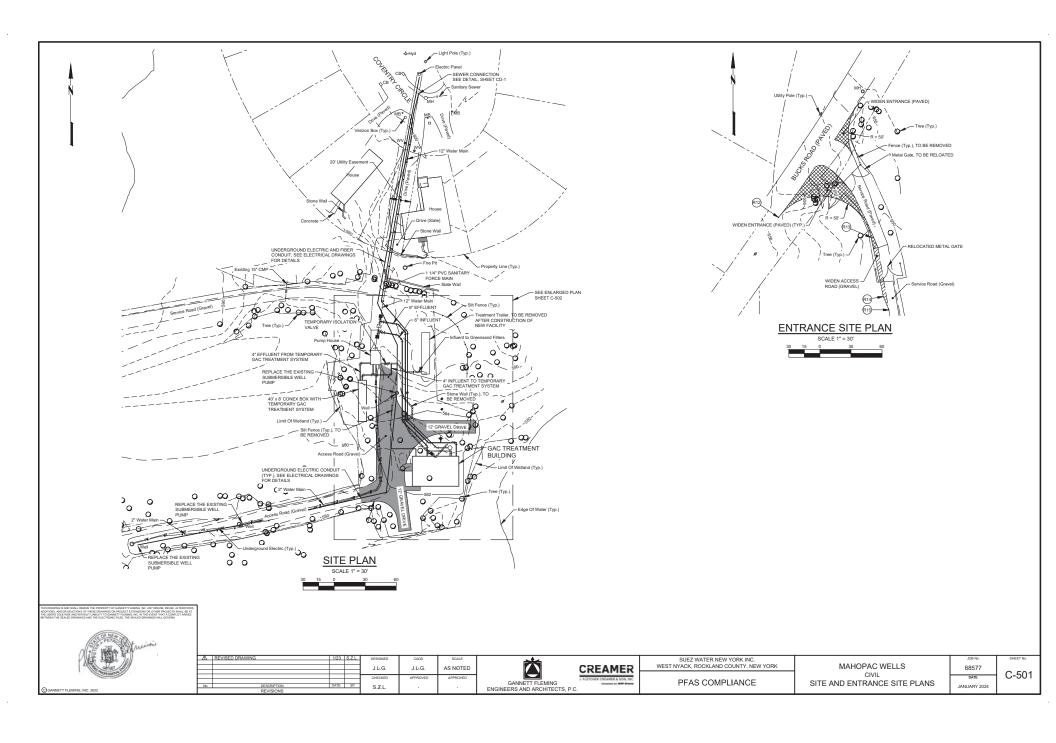
J.L.G. J.L.G. AS NOTED

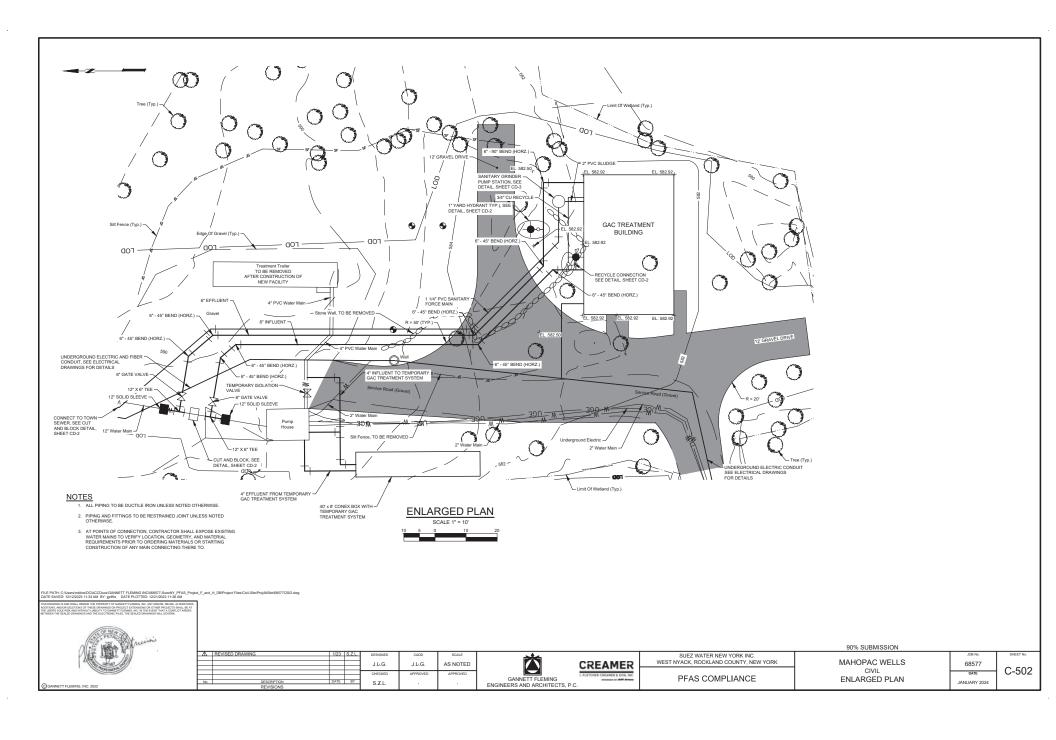


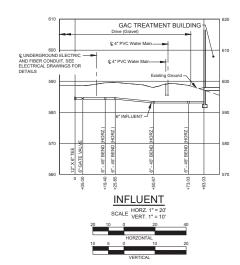
PFAS COMPLIANCE

DRAWINGS/68577 SuezNY PFAS-Proj-F-And-HICIVIL/6857 3/29/2021 11:35 AM BY: jgriffe DATE PLOTTED: 10/19/2



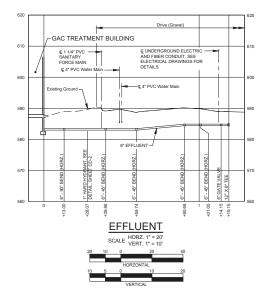






- NOTES

 1. ALL PIPING TO BE DUCTILE IRON UNLESS NOTED OTHERWISE.
 - PIPING AND FITTINGS TO BE RESTRAINED JOINT UNLESS NOTED OTHERWISE.
 - AT POINTS OF CONNECTION, CONTRACTOR SHALL EXPOSE EXISTING WATER MAINS TO VERIEY LOCATION, GEOMETRY, AND MATERIAL REQUIREMENTS PRIOR TO ORDERING MATERIALS OR STARTING CONSTRUCTION OF ANY MAIN CONNECTING THERE TO.





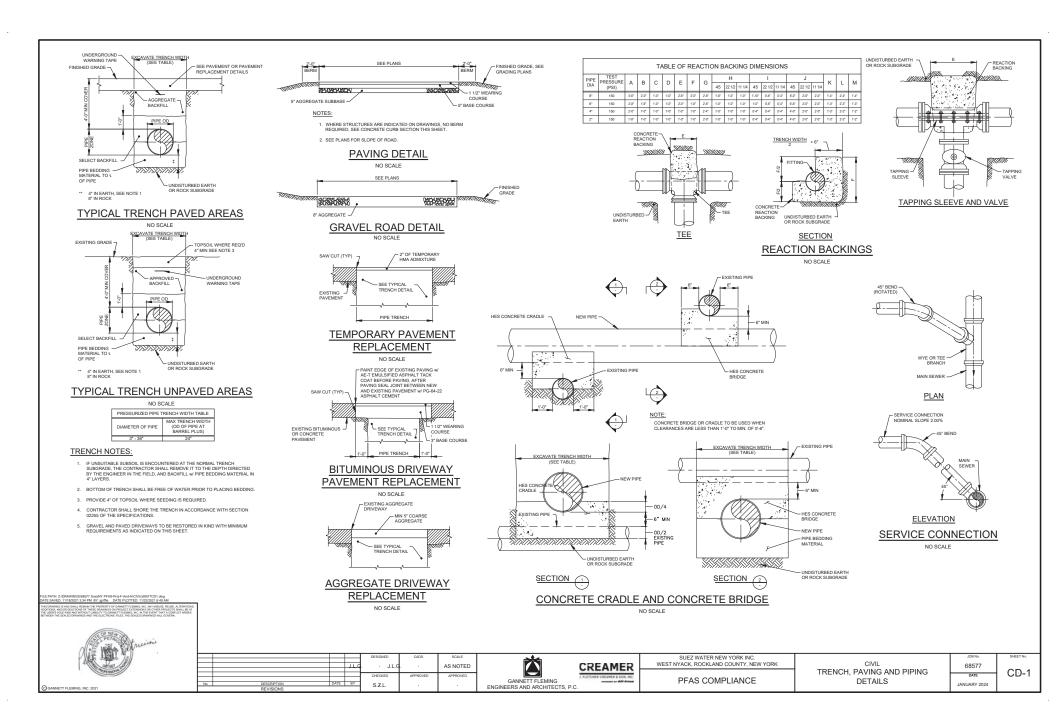
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			J.L.G.	J.L.G.	AS NOTED
			0.2.0.	0.2.0.	710110120
			CHECKED	APPROVED	APPROVED
	l				
DESCRIPTION	DATE	BY	S.Z.L.		
REVISIONS			0.2		

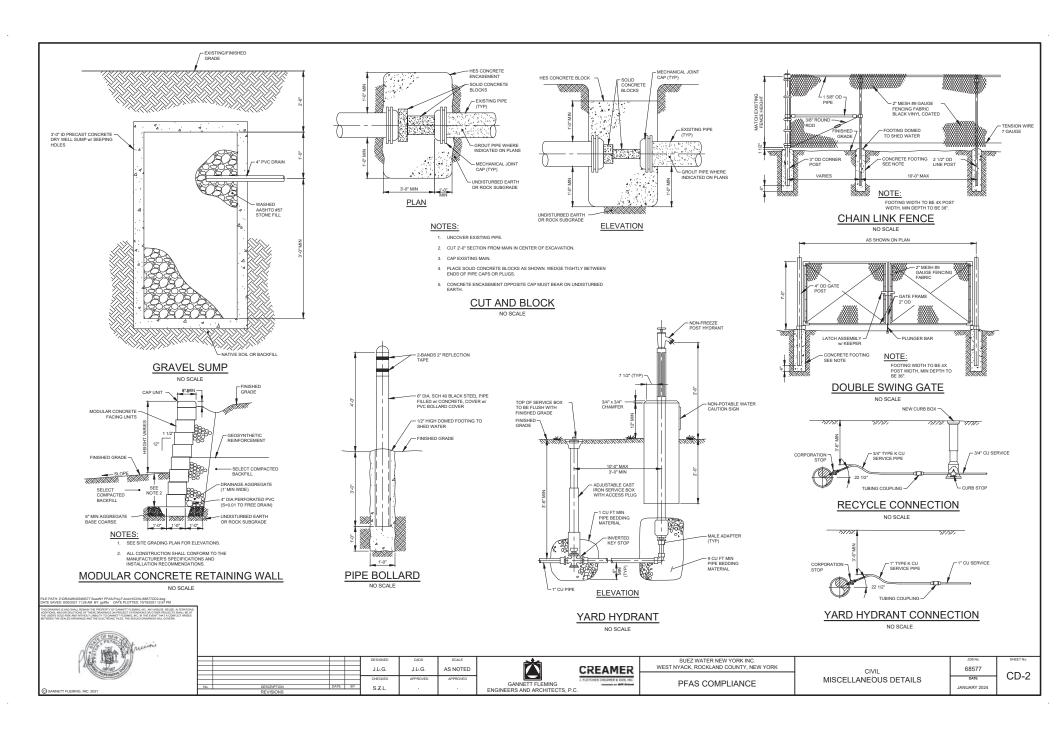


SUEZ WATER NEW YORK INC. WEST NYACK, ROCKLAND COUNTY, NEW YORK	
PFAS COMPLIANCE	

MAHOPAC WELLS
CIVIL
PROFILES
PROFILES

JOB No.	SHEET No.
68577	C-503
DATE	U-303
JANUARY 2024	





CI

MASONRY WALL (PLANS AND SECTIONS)

FILL CONCRETE (USED ON SECTIONS)

REINFORCED CONCRETE (USED ON SECTIONS)

CHEMICAL FEED SYSTEMS

ALUM

AC ALTERNATE COAGULANT

COAGULANT AID

CD CHI ORINE DIOXIDE

CORROSION INHIBITOR

CL

CO CARBON DIOXIDE

CP COAGLII ANT POLYMER

CAUSTIC SODA

FII TER AID FΔ

FERRIC CHI ORIDE

FERRIC SULFATE

HYDROGEN PEROXIDE

HOT WATER

POTASSIUM PERMANGANATE

OXYGEN

ΟZ

POWDERED ACTIVATED CARBON

PACI POLYALUMINUM CHLORIDE SPARE

S

SA

SODIUM BISULFITE

SBP SLUDGE BLANKET POLYMER

SC SODIUM CHI ORITE

SCP SLUDGE CONDITIONER POLYMER

SODIUM HYPOCHLORITE SHC

SULFUR DIOXIDE SO

WCP WASTEWATER CONDITIONER POLYMER

'X' D

'X' F 'X' FILI

'Y' V 'Y' VENT PROCESS PIPING ABBREVIATIONS

BELL

BACKWASH WATER

CE CONTACTOR EFFLUENT

CI CLEARWELL INFLUENT

D

FI FILTER INFLUENT

FLANGE

FLG

FR

FILTER RINSE

GRANIJI AR ACTIVATED CARRON GAC

MJ MECHANICAL JOINT

MIXED WATER

PE PLAIN END

PLANT SERVICE

RJ RESTRAINED JOINT

SI SLUDGE

SW SETTLED WATER

WASTEWATER ww

WATER

SAMPLE LINES

CONTACTOR EFFLUENT SAMPLE

CIS CLEARWELL INFLUENT SAMPLE

FIS FILTER INFLUENT SAMPLE

FES FILTER EFFLUENT SAMPLE

FWS FINISHED WATER SAMPLE MWS MIXED WATER SAMPLE

PES PLANT EFFLUENT SAMPLE

PLANT INFLUENT SAMPLE RWS RAW WATER SAMPLE

PROCESS FLOW ABBREVIATIONS

CFM CUBIC FEET PER MINUTE

CES CUBIC FEET PER SECOND

FPS FEET PER SECOND

MGD MILLION GALLONS PER DAY

GALLONS PER MINUTE

GENERAL ABBREVIATIONS

CLEARANCE

CENTERLINE

CONCRETE MASONRY UNIT CMU

DIA DIAMETER

FC ELECTRICAL CONTRACT

EL or ELEV

EX EXISTING

FT FOOT OR FEET

GC GENERAL CONTRACT

ID

INV INVERT

MAX MAXIMUM

MC MECHANICAL CONTRACT

MIN MINIMUM

NA NOT APPLICABLE

NTS NOT TO SCALE

OD OUTSIDE DIAMETER PLUMBING CONTRACT PC

ΡΙ ΔΤΕ

SO SQUARE

STA STATION

TYP TYPICAL

WASTEWATER ww

MATERIAL

Al ALUMINUM

ACP ASBESTOS CEMENT PIPE

CIP CAST IRON PIPE

CISP CAST IRON SOIL PIPE

CORRUGATED METAL PIPE

CPVC CHLORINATED POLYVINYL CHLORIDE PIPE

CH COPPER

DI DUCTILE IRON

DIP DUCTILE IRON PIPE

FRP FIBERGLASS REINFORCED PLASTIC

GI GAI VANIZED IRON

GLASS LINED DUCTILE IRON PIPE GLDIP

HDPE HIGH DENSITY POLYETHYLENE

PCCP PRESTRESSED CONCRETE CYLINDER PIPE

PEX CROSS-LINKED POLYETHYLENE

PVC

RCCP REINFORCED CEMENT CONCRETE PIPE

SS STAINLESS STEEL

STEEL

PROCESS SHEET REFERENCE LEGEND



PROCESS INSTRUMENTATION **IDENTIFICATION LEGEND**

EQUIPMENT TAGGING



* SEE INSTRUMENTATION DRAWINGS FOR INSTRUMENTATION IDENTIFICATION ABBREVIATIONS

INSTRUMENT & FUNCTION TAGGING

TABLE. YELETTER SLIEFLY TO DISTINGUISH RETWEEN INSTRUMENTS IN LOOP WITH SAME FUNCTIONAL IDENTIFICATION. (USED AS REQ'D)

LINE COMPOSITION

NEW FACILITIES SHOWN WITH HEAVIER LINE WORK AND BOLDER TEXT THAN EXISTING FACILITIES.

SUEZ WATER NEW YORK INC.

PROCESS LEGEND AND ABBREVIATIONS

PROCESS

68577 DATE



NOTE:

'X' - INSERT CHEMICAL ABBREVIATION AS REQUIRED. (EXAMPLE CSV - CAUSTIC SODA VENT)

ABBREVIATIONS ONLY. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SYMBOLS AND ABBREVIATIONS FOR THAT WORK.

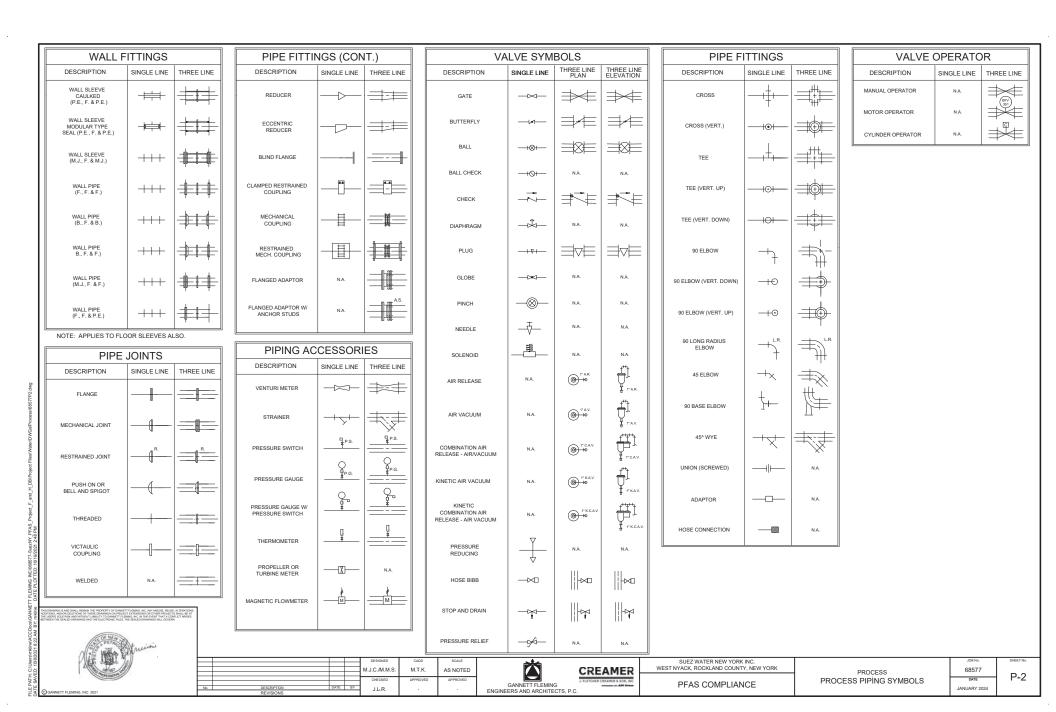
AS NOTED

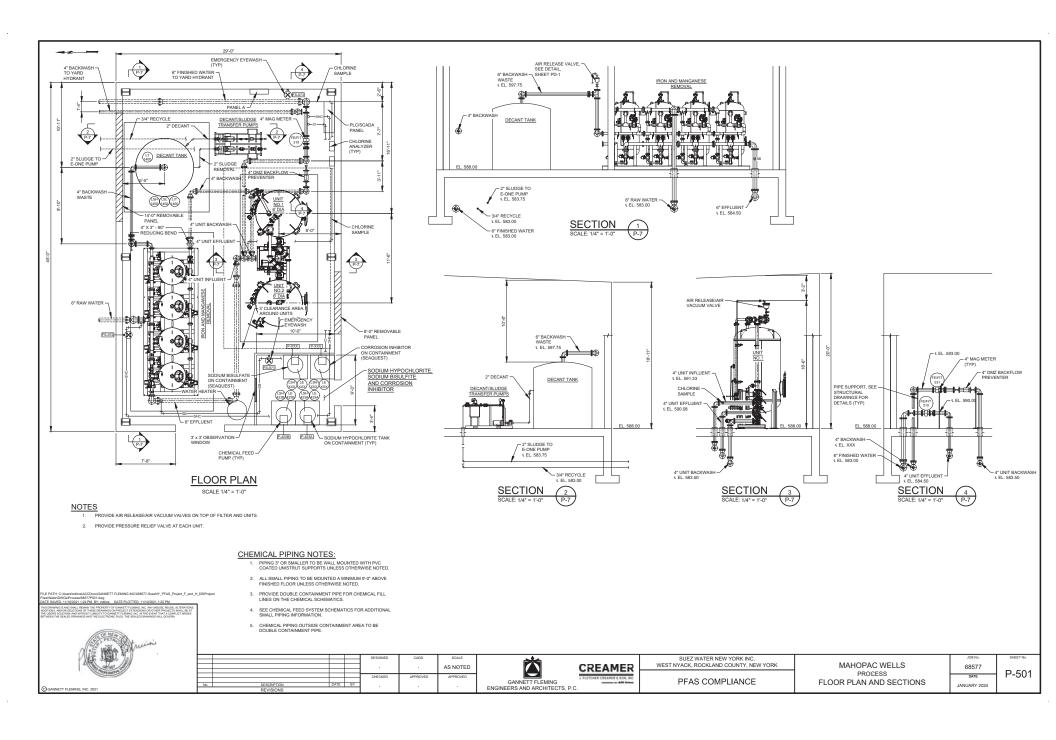
THIS SHEET IS FOR PROCESS SYMBOLS AND

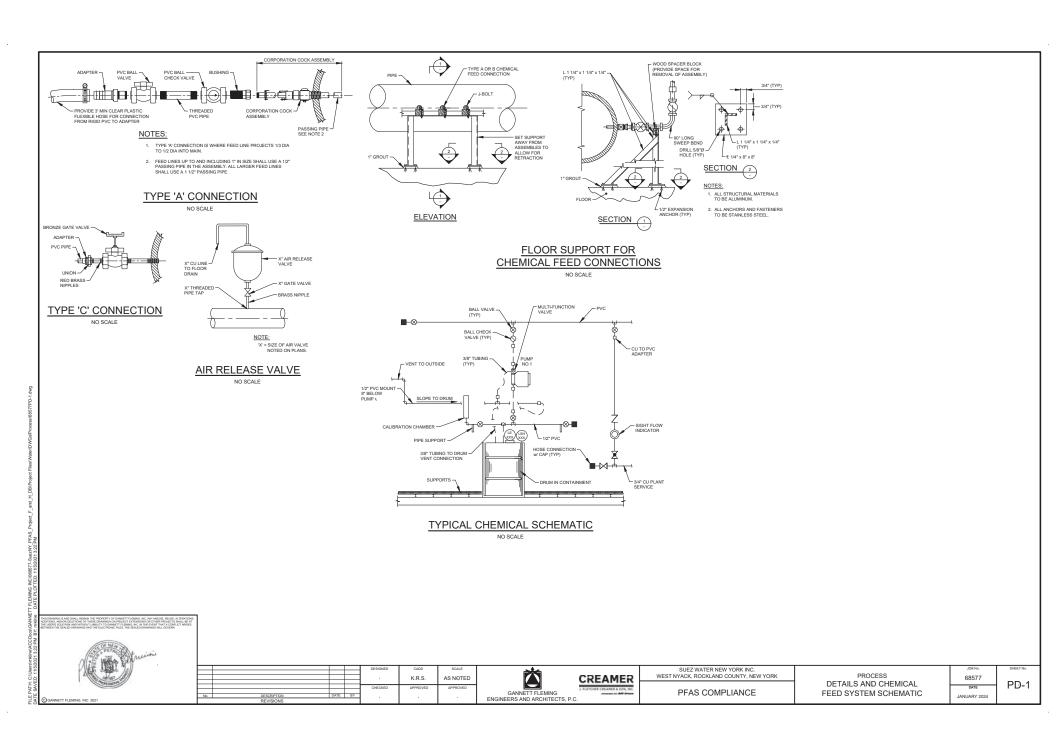
CREAMER

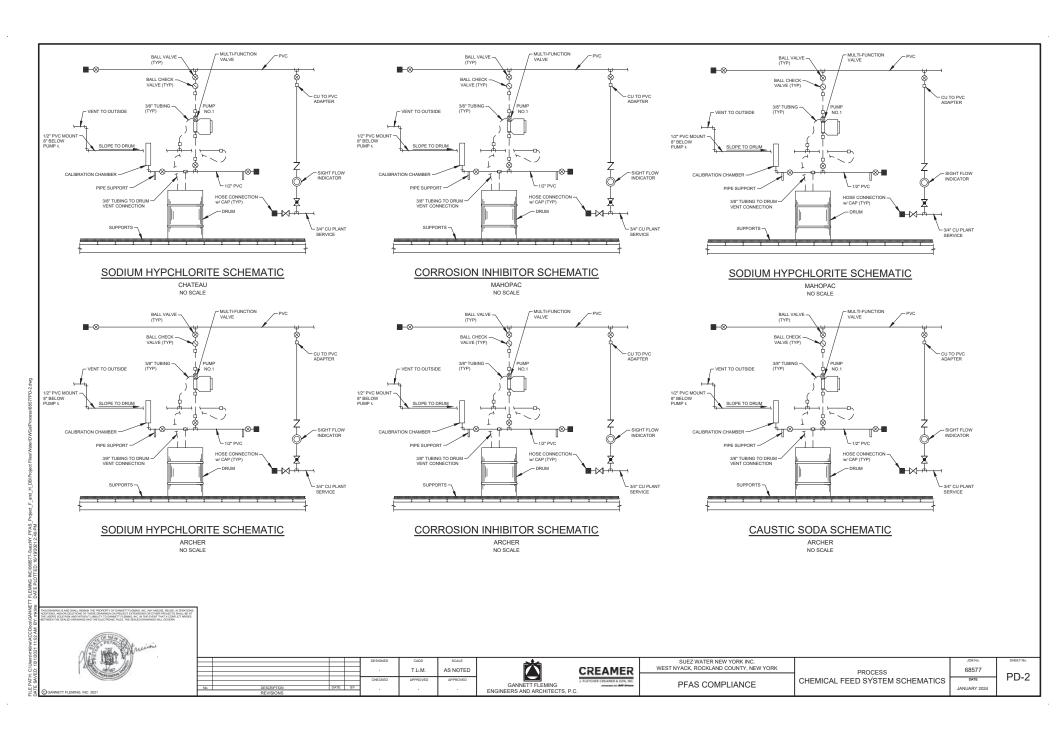
WEST NYACK, ROCKLAND COUNTY, NEW YORK PFAS COMPLIANCE

P-1









APPENDIX C BACKWASH LABORATORY TEST RESULTS



Friday, August 13, 2021

Attn: Roy Barticciotto

CEMCO Water & Wastewater Specialists Inc

59 Healey Lane

Stormville, NY 12582

Project ID: MAHPOPAC TREATMENT TRAILER

SDG ID: GCI88573 **Sample ID#s:** CI88573

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #M-CT007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

UT Lab Registration #CT00007

VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

August 13, 2021

SDG I.D.: GCI88573

Project ID: MAHPOPAC TREATMENT TRAILER

Client Id	Lab Id	Matrix
BACKWASH	CI88573	WATER



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

August 13, 2021

FOR: Attn: Roy Barticciotto

CEMCO Water & Wastewater Specialists Inc

59 Healey Lane Stormville, NY 12582

Sample Information **Custody Information** Date <u>Time</u> 08/04/21 WATER Collected by: Matrix: 11:00 Received by: Location Code: **CEMCO** LB 08/04/21 17:34 Rush Request: Standard Analyzed by: see "By" below

aboratory Data

SDG ID: GCI88573

Phoenix ID: CI88573

MAHPOPAC TREATMENT TRAILER Project ID:

Client ID: **BACKWASH**

P.O.#:

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference	
B.O.D./5 day	< 4.0	4.0	mg/L	2	08/04/21 17:34	J/LJ	SM 5210B-11	
B.O.D./5 day End Incubation					08/09/21 15:00	J/LJ	SM 5210B-11	
Chlorine Demand	2.00	0.1	mg/L	1	08/13/21	KDB	SM2350	1
C.O.D.	59	10	mg/L	1	08/05/21	QH	SM 5220D-11	
Ammonia as Nitrogen	0.18	0.10	mg/L	2	08/11/21	KDB	E350.1	
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	08/06/21	BJA	EPA 1664	
рН	7.92	1.00	pH Units	1	08/05/21 01:25	MW/EG	S SM4500-H B-11	1
Nitrogen Tot Kjeldahl	0.60	0.20	mg/L	2	08/11/21	KDB	E351.1	
Phosphorus, as P	0.11	0.10	mg/L	10	08/06/21	JR	SM4500PE-11	
Total Suspended Solids	100	6.3	mg/L	1.3	08/05/21	MCH/QH	SM 2540D-11	

^{1 =} This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL BRL=Below Reporting Level L=Biased Low

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

August 13, 2021

Reviewed and Released by: Helen Geoghegan, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

QA/QC Data

August 13, 2021				QA/	QC E)ata	sta SDG I.D.: GCI88573							
Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 586491 (pH), QC	Sample	No: Cl	88378 (C	188573)										
рН			8.4	8.16	2.90	97.9						85 - 115	20	
QA/QC Batch 586721 (mg/L), (QC Samp	ole No:	CI88387	(CI88573	3)									
Phosphorus, as P Comment:	BRL	0.01	0.019	0.022	NC	95.2			104			85 - 115	20	
Additional criteria matrix spike ac	ceptance	range is	75-125%.											
QA/QC Batch 586589 (mg/L), 0	QC Samp	ole No:	CI88430	(CI88573	3)									
C.O.D.	BRL	10	31	31	NC	104			105			85 - 115	20	
Comment:														
Additional criteria matrix spike ac	ceptance	range is	75-125%.											
QA/QC Batch 586542 (mg/L), 0	QC Samp	ole No:	CI88558	(CI88573	3)									
Total Suspended Solids	BRL	2.5	<3.3	<3.5	NC	93.0						85 - 115	20	
QA/QC Batch 586394 (mg/L), 0	QC Samp	ole No:	CI88570	(CI88573	3)									
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	100			92.5			70 - 130	20	
B.O.D./5 day GGA BOD						111						84 - 115	20	
QA/QC Batch 586699 (mg/L), 0	QC Samp	ole No:	CI89235	(CI88573	3)									
Oil and Grease by EPA 1664A Comment:	BRL	1.4	<1.4	<1.4	NC	103			97.0			85 - 115	20	
Additional: MS acceptance range	75-125%	6.												
QA/QC Batch 587135 (mg/L), (CI88389	(CI8857:	3)									
Ammonia as Nitrogen	BRL	0.05	21.8	21.9	0.50	96.1			101			90 - 110	20	
Nitrogen Tot Kjeldahl	BRL	0.10	28.8	29.34	1.90	99.0			104			85 - 115	20	
Comment:														
TKN is reported as Organic Nitro	gen in the	Blank, I	CS, DUP	and MS.										

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

August 13, 2021

Friday, August 13, 2021 Criteria: None

Sample Criteria Exceedances Report

GCI88573 - CEMCO

State: NY

RL Analysis SampNo Acode Phoenix Analyte Criteria Result RL Criteria Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

^{***} No Data to Display ***



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

August 13, 2021 SDG I.D.: GCl88573

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

NY Temperature Narration

August 13, 2021

SDG I.D.: GCI88573

The samples in this delivery group were received at 1.4° C. (Note acceptance criteria for relevant matrices is above freezing up to 6° C)

PHOENIX
Environmental Laboratories, Inc.

PHC Environm	PENIX Sental Laboratories, Inc.	587 East Middle Turnpike, P.O. Box 370, Manchester, CT Email: info@phoenixlabs.com Fax (860) 645-082 Client Services (860) 645-8726 Project: Mahopac Treatment Trail								T 0604						ax #:	ery:	Cemco59@gmail.com							
Customer:	Cemco Water and Wastewater S	pecialists,	Inc.			Pro	ject:		Mat	nopa	Trea	atme	ent Tra	iler				F	^o roje	ct P.	0: _				
Address:	59 Healey Lane					Re	port t	o:	Cer	nco								F	Phon	e #:	8	345-8	78-97	11	
	Stormville, NY 12582					lnv	oice t	to:	Cer	nco				_				F	ax #	‡ :	8	345-8	78-65	78	
Sampler's Signature	Client Sample - Information - Id	entification	Date:	IN	_	Anal Req	ysis uest													J. Male 1	, K ^O /				~ /
Matrix Code: DW=drinking water GW=groundwater	WW=wastewater S=soil/solid O=oil SL=sludge A=air X=oth	ner					uest							//	//			Me Had	ine cont				7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	State C	gorin Being
Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampl	ed /		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			/+	/+/	/+/	/+/	+/:								, , , , ,		7 60 2 80	deila
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Comments, Specia	Sample is not	DW	per (ecel	ia	([<u> </u>			* SUI	RCHAR						Sc NY	oil '375 F	Restri	cted		□ил	Hazsite EZ ED		P)
					•	(0))			Sta	ıte wi	here	sampl	es we	re co	llecte	d:		۱Y		.	□ил		ed Deli	v. * SP B) *



Monday, September 13, 2021

Attn: Roy Barticciotto

CEMCO Water & Wastewater Specialists Inc

59 Healey Lane

Stormville, NY 12582

Project ID: MAHOPAC TREATMENT TRAILER

SDG ID: GCJ19988 Sample ID#s: CJ19988

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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Sincerely yours,

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #M-CT007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

UT Lab Registration #CT00007

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

September 13, 2021

SDG I.D.: GCJ19988

Project ID: MAHOPAC TREATMENT TRAILER

Client Id	Lab Id	Matrix
BACKWASH	CJ19988	WASTE WATER



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

September 13, 2021

FOR: Attn: Roy Barticciotto

CEMCO Water & Wastewater Specialists Inc

59 Healey Lane Stormville, NY 12582

Sample InformationCustody InformationDateTimeMatrix:WASTE WATERCollected by:09/03/2111:00Location Code:CEMCOReceived by:LB09/03/2117:05

Rush Request: Standard Analyzed by: see "By" below

<u>Laboratory Data</u>

SDG ID: GCJ19988

Phoenix ID: CJ19988

Project ID: MAHOPAC TREATMENT TRAILER

Client ID: BACKWASH

P.O.#:

		RL/	LOD/					
Parameter	Result	PQL	MDL	Units	Dilution	Date/Time	Ву	Reference
Silver	0.002	0.001		mg/L	1	09/08/21	EK	E200.7
Arsenic	< 0.002	0.002		mg/L	1	09/08/21	EK	E200.7
Cadmium	< 0.001	0.001		mg/L	1	09/08/21	EK	E200.7
Chromium	0.004	0.001		mg/L	1	09/08/21	EK	E200.7
Copper	0.022	0.003		mg/L	1	09/08/21	EK	E200.7
Mercury	< 0.0002	0.0002		mg/L	1	09/08/21	AT	E245.1
Manganese	15.4	0.050		mg/L	100	09/09/21	EK	E200.7
Molybdenum	< 0.003	0.003		mg/L	1	09/08/21	EK	E200.7
Nickel	0.013	0.001		mg/L	1	09/08/21	EK	E200.7
Lead	0.003	0.001		mg/L	1	09/08/21	EK	E200.7
Selenium	< 0.005	0.005		mg/L	1	09/08/21	EK	E200.7
Zinc	0.294	0.002		mg/L	1	09/08/21	EK	E200.7
B.O.D./5 day	< 40	40		mg/L	30	09/03/21 17:05	A/LJ	SM 5210B-11
B.O.D./5 day End Incubation						09/08/21 15:01	A/LJ	SM 5210B-11
Ammonia as Nitrogen	0.10	0.05		mg/L	1	09/10/21	KDB	E350.1
Oil and Grease by EPA 1664A	< 1.4	1.4		mg/L	1	09/11/21	MSF	EPA 1664
Total Cyanide	< 0.020	0.020		mg/L	2	09/13/21	ARC/GE	E335.4
Phosphorus, as P	0.203	0.010		mg/L	1	09/09/21	JR	SM4500PE-11
Total Suspended Solids	210	13		mg/L	2.5	09/08/21	AMM/AR	GSM 2540D-11
Mercury Digestion	Completed					09/05/21	AB/AB	E245.1
Total Metals Digestion	Completed					09/07/21	AG	
Acrolein, Acrylonitrile,	2 CEVE							
2-Chloroethyl vinyl ether	ND	5.0	5.0	ug/L	1	09/03/21	МН	E624.1 As is
Acrolein	ND	5.0	1.0	ug/L	1	09/03/21	МН	E624.1 As is
Acrylonitrile	ND	5.0	0.50	ug/L	1	09/03/21	МН	E624.1 As is
,				J				

Project ID: MAHOPAC TREATMENT TRAILER

Client ID: BACKWASH

RL/ LOD/ Parameter Result **PQL** MDL Units Dilution Date/Time Βv Reference **Volatiles** ug/L ND 5.0 1 1,1,1-Trichloroethane 0.50 09/03/21 MH E624.1 1,1,2,2-tetrachloroethane ND 5.0 0.50 ug/L 1 09/03/21 MH E624.1 ND 5.0 1 0.50 ug/L 09/03/21 MH E624.1 1,1,2-Trichloroethane ND 5.0 0.50 ug/L 1 09/03/21 MH E624.1 1,1-Dichloroethane 1,1-Dichloroethene ND 5.0 0.50 ug/L 1 09/03/21 MH E624.1 ND 5.0 0.50 ug/L 1 09/03/21 MH E624.1 1,2-Dichlorobenzene 1.2-Dichloroethane ND 5.0 0.50 ug/L 1 09/03/21 MH E624.1 ND 5.0 1 09/03/21 1,2-Dichloropropane 0.50 ug/L MH E624.1 ND 5.0 1 0.50 ug/L 09/03/21 MH E624.1 1,3-Dichlorobenzene ND 5.0 5.0 ug/L 1 09/03/21 MH E624.1 1,3-Dichloropropene ND 1,4-Dichlorobenzene 5.0 0.50 ug/L 1 09/03/21 MH E624.1 Benzene ND 5.0 0.50 ug/L 1 09/03/21 MH E624.1 1 9.1 5.0 09/03/21 Bromodichloromethane 0.50 ug/L MH E624.1 1 0.89 5.0 09/03/21 E624.1 Bromoform J 0.50 ug/L MH ND 5.0 0.50 ug/L 1 09/03/21 МН E624.1 Bromomethane Carbon tetrachloride ND 5.0 0.50 ug/L 1 09/03/21 MH E624.1 Chlorobenzene ND 5.0 0.50 ug/L 1 09/03/21 MH E624.1 Chloroethane ND 5.0 0.50 ug/L 1 09/03/21 MH E624.1 9.5 5.0 1 09/03/21 E624.1 Chloroform 0.50 ug/L MH ND 5.0 1 09/03/21 E624.1 0.50 ug/L MH Chloromethane ND 5.0 0.50 ug/L 1 09/03/21 МН E624.1 cis-1,2-Dichloroethene cis-1,3-Dichloropropene ND 5.0 0.50 ug/L 1 09/03/21 МН E624.1 5.0 1 09/03/21 E624.1 Dibromochloromethane 6.3 0.50 ug/L MH Ethylbenzene ND 5.0 0.50 ug/L 1 09/03/21 МН E624.1 ND 5.0 1 09/03/21 E624.1 m&p-Xylenes 0.50 ug/L MH 5.0 ND 1 09/03/21 МН E624.1 Methyl t-butyl ether (MTBE) 0.50 ug/L Methylene chloride ND 5.0 0.50 ug/L 1 09/03/21 МН E624.1 ND 5.0 0.45 ug/L 1 09/03/21 МН E624.1 o-Xylene ND 5.0 1 09/03/21 E624.1 Tetrachloroethene 0.50 ug/L MH 09/03/21 E624.1 Toluene 0.52 J 5.0 0.50 ug/L 1 MH 5.0 ND 1 09/03/21 МН E624.1 Total Xylenes 5.0 ug/L ND 5.0 0.50 ug/L 1 09/03/21 МН E624.1 trans-1,2-Dichloroethene ND 5.0 0.50 1 09/03/21 E624.1 trans-1,3-Dichloropropene ug/L MH Trichloroethene ND 5.0 0.50 ug/L 1 09/03/21 МН E624.1 ND 5.0 ug/L 1 09/03/21 МН E624.1 Trichlorofluoromethane 0.50 Vinyl chloride ND 5.0 0.50 ug/L 1 09/03/21 MH E624.1 **QA/QC Surrogates** 1 70 - 130 % 101 % 09/03/21 MH % 1.2-dichlorobenzene-d4 97 % 1 09/03/21 МН 70 - 130 % % Bromofluorobenzene 106 % 1 09/03/21 МН 70 - 130 % % Dibromofluoromethane 102 % 09/03/21 МН 70 - 130 % % Toluene-d8

Phoenix I.D.: CJ19988

Project ID: MAHOPAC TREATMENT TRAILER Phoenix I.D.: CJ19988

Client ID: BACKWASH

RL/ LOD/

Parameter Result PQL MDL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Total Cyanide:

Chlorine was present; Sample was de-chlorinated prior to digestion/analysis. (EPA requires dechlorination at time of sampling.) A sample bias can not be ruled out.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

September 13, 2021

Reviewed and Released by: Helen Geoghegan, Project Manager

^{1 =} This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



SDG I.D.: GCJ19988

QA/QC Report

September 13, 2021

QA/QC Data

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 590698 (mg/L), Q	C Sam	ole No: (CJ19853	(CJ1998	38)								
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	96.0			99.9			80 - 120	20
Comment:													
Additional Mercury criteria: LCS ad	cceptano	e range f	or waters	is 80-120	% and fo	or soils is	s 70-1309	%. MS a	cceptan	ce range	is 75-1	25%.	
QA/QC Batch 590802 (mg/L), Q	C Sam	ole No: (CJ20437	(CJ1998	88)								
ICP Metals - Aqueous				`	,								
Arsenic	BRL	0.0020	<0.002	<0.0020	NC	97.5	97.0	0.5	96.2			80 - 120	20
Cadmium	BRL	0.0005	< 0.001	<0.0005	NC	97.2	96.8	0.4	93.0			80 - 120	20
Chromium	BRL	0.0005	< 0.001	0.0007	NC	97.6	96.8	0.8	94.3			80 - 120	20
Copper	BRL	0.0025	0.009	0.0084	NC	101	100	1.0	102			80 - 120	20
Lead	BRL	0.0010	< 0.001	<0.0010	NC	98.7	98.6	0.1	95.8			80 - 120	20
Manganese	BRL	0.0005	0.160	0.160	0	98.9	98.6	0.3	95.0			80 - 120	20
Molybdenum	BRL	0.0025	<0.003	<0.0025	NC	100	99.0	1.0	97.2			80 - 120	20
Nickel	BRL	0.0005	0.005	0.0045	10.5	98.7	98.4	0.3	94.8			80 - 120	20
Selenium	BRL	0.0050	<0.005	<0.0050	NC	90.9	90.8	0.1	88.9			80 - 120	20
Silver	BRL	0.0005	< 0.001	<0.0005	NC	95.4	95.8	0.4	96.4			80 - 120	20
Zinc	BRL	0.0020	0.083	0.0819	1.30	95.8	95.4	0.4	94.5			80 - 120	20
Comment:													

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



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SDG I.D.: GCJ19988

QA/QC Report

September 13, 2021

QA/QC Data

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 591319 (mg/L), Q	C Sam	ole No: (CJ21229	(CJ1998	38)								
Total Cyanide	BRL	0.010	0.102	0.103	1.00	102			94.0			90 - 110	20
Comment:													
Additional: LCS acceptance range	is 80-12	0% for s	oils MS ac	ceptance	range 7	75-125%	for soils						
QA/QC Batch 590611 (mg/L), Q	C Sam	ole No: (CJ19902	(CJ1998	38 (10X))							
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	102			104			70 - 130	20
B.O.D./5 day GGA BOD						107						84 - 115	20
QA/QC Batch 590946 (mg/L), Q	C Sam	ole No: (CJ19903	(CJ1998	38)								
Total Suspended Solids	BRL	2.5	6.7	7.3	NC	108						85 - 115	20
QA/QC Batch 591534 (mg/L), Q	C Sam	ole No: (CJ19988	(CJ1998	38)								
Oil and Grease by EPA 1664A Comment:	BRL	1.4				96.0	98.0	2.1				85 - 115	20
	75 4050	,											
Additional: MS acceptance range													
QA/QC Batch 591165 (mg/L), Q				`	,								
Phosphorus, as P	BRL	0.01	4.10	4.19	2.20	97.8			101			85 - 115	20
Comment:													
Additional criteria matrix spike acco	eptance	range is	75-125%.										
QA/QC Batch 591233 (mg/L), Q	C Sam	ole No: (CJ19322	(CJ1998	38)								
Ammonia as Nitrogen	BRL	0.05	<0.10	0.12	NC	94.9			100			90 - 110	20



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SDG I.D.: GCJ19988

QA/QC Report

September 13, 2021

QA/QC Data

Ooptombor 10, 202	- '						obai	.D C	100100	,00
Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 590759 (ug/L),	QC Sampl	le No: CJ19372 (CJ19988)								
Volatiles - Waste Water		, ,								
1,1,1-Trichloroethane	ND	1.0	84	84	0.0				75 - 125	20
1,1,2,2-Tetrachloroethane	ND	0.50	81	80	1.2				60 - 140	20
1,1,2-Trichloroethane	ND	1.0	90	89	1.1				71 - 129	20
1,1-Dichloroethane	ND	1.0	95	92	3.2				72 - 128	20
1,1-Dichloroethene	ND	1.0	81	81	0.0				50 - 150	20
1,2-Dichlorobenzene	ND	1.0	87	86	1.2				63 - 137	20
1,2-Dichloroethane	ND	1.0	91	89	2.2				68 - 132	20
1,2-Dichloropropane	ND	1.0	98	98	0.0				40 - 160	20
1,3-Dichlorobenzene	ND	1.0	92	90	2.2				73 - 127	20
1,4-Dichlorobenzene	ND	1.0	85	84	1.2				63 - 137	20
2 chlorethyl vinyl ether	ND	1.0	84	80	4.9				50 - 150	20
Acrolein	ND	5.0	90	88	2.2				50 - 150	20
Acrylonitrile	ND	5.0	83	80	3.7				50 - 150	20
Benzene	ND	0.70	97	95	2.1				64 - 136	20
Bromodichloromethane	ND	0.50	92	91	1.1				65 - 135	20
Bromoform	ND	1.0	77	75	2.6				71 - 129	20
Bromomethane	ND	1.0	90	89	1.1				40 - 160	20
Carbon tetrachloride	ND	1.0	91	91	0.0				73 - 127	20
Chlorobenzene	ND	1.0	89	87	2.3				66 - 134	20
Chloroethane	ND	1.0	89	89	0.0				40 - 160	20
Chloroform	ND	1.0	90	89	1.1				67 - 133	20
Chloromethane	ND	1.0	93	93	0.0				40 - 160	20
cis-1,2-Dichloroethene	ND	1.0	99	99	0.0				69 - 131	20
cis-1,3-Dichloropropene	ND	0.40	101	99	2.0				40 - 160	20
Dibromochloromethane	ND	0.50	87	83	4.7				67 - 133	20
Ethylbenzene	ND	1.0	91	88	3.4				59 - 141	20
m&p-Xylene	ND	1.0	91	90	1.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	94	92	2.2				70 - 130	30
Methylene chloride	ND	1.0	98	97	1.0				60 - 140	20
o-Xylene	ND	1.0	96	93	3.2				70 - 130	30
Tetrachloroethene	ND	1.0	83	83	0.0				73 - 127	20
Toluene	ND	1.0	93	91	2.2				74 - 126	20
trans-1,2-Dichloroethene	ND	1.0	92	92	0.0				69 - 131	20
trans-1,3-Dichloropropene	ND	0.40	96	94	2.1				50 - 150	20
Trichloroethene	ND	1.0	87	86	1.2				66 - 134	20
Trichlorofluoromethane	ND	1.0	82	82	0.0				48 - 152	20
Vinyl chloride	ND	1.0	93	94	1.1				40 - 160	20
% 1,2-dichlorobenzene-d4	103	%	97	98	1.0				70 - 130	30
% Bromofluorobenzene	99	%	101	100	1.0				70 - 130	30
% Dibromofluoromethane	127	%	101	103	2.0				70 - 130	30
% Toluene-d8	104	%	102	102	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCJ19988

% % RPD Blk LCS LCSD LCS MS MSD MS Rec Blank RL % % RPD % % RPD Limits Limits Parameter

Comment:

The MS/MSD are not reported for this batch.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

September 13, 2021

Monday, September 13, 2021

Sample Criteria Exceedances Report GCJ19988 - CEMCO

Criteria: None State: NY

State: NY

RL Analysis
SampNo Acode Phoenix Analyte Criteria Units
Result RL Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

^{***} No Data to Display ***



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Analysis Comments

September 13, 2021 SDG I.D.: GCJ19988

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



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NY Temperature Narration

September 13, 2021



SDG I.D.: GCJ19988

The samples in this delivery group were received at 1.4°C. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)



NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823

WC
JPK

Temp	۷, ا	<u></u>	Pg	of
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Data Delivery:			
Fax #:			

Environme	ental Laboratories, Inc.		Client Services (860) 645-8726 Project: Mahopac Treatment Trailer										1		X	Email	l:	Cemco59@gmail.com											
Customer:	Cemco Water and Wastewater Spe	ecialists,	Inc.			Proi	iect:		Mah	nopa	c Tre	atm	ent T	raile	r					Proj	ect F	2.0:							
Address:	59 Healey Lane				•	-	ort to		Cer											Pho			845	-878	-971	1			
	Stormville, NY 12582				•		oice t		Cer											Fax	#:		845	-878	-657	 В			
					-																								
Sampler's Signature	Client Sample - Information - Ider	ntification	Date:	3		Analy Requ		/		/	//	/	//	/	//	//	/		/		Septrate				、 // ふ		Ø./ /		
Matrix Code: DW=drinking water GW=groundwater	WW=wastewater S=soil/solid O=oil SL=sludge A=air X=othe	r				/	//	//	//	//		\$ \\ \$ \\	/12/ and/	//					Methan	diles .	dine		A +	Soul	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Soluj Kie		
Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	/&	/ 8/&	5/3	Bride 6			and sti	HOLIO	1 to 1	/+/	/+/						idital S	11/20 11/20	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	XV &	HO'S	10 A	Sori dotte		
19988	backwash	ww	9/3/2021	11am	х												ł												
	backwash	ww	9/3/2021	11am		х																							
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	backwash	ww	9/3/2021	11am					х																				
	backwash	ww	3-Sep	11am						х																			
	backwash	ww	3-Sep	11am							x																		
Relinquished by: Comments, Specia Cl2 residual:	mments, Special Requirements or Regulations: NO PLANOIS PER CODY											30						Res. Criteria act to GW Soil nup Criteria					B F F F F F F F F F F F F F F F F F F F	Excel PDF GIS/K EQuIS NJ Ha NY EZ Other	ey S zsite	EDD (ASF	P)		
										Sta	ate wi	nere	sam	pies '	were	COIL	ec (e (NY Er Other	hance	ed (A	SP B) *		



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



Analysis Report

December 02, 2021

FOR:

Custody Information

Attn: Roy Barticciotto

CEMCO Water & Wastewater Specialists Inc

59 Healey Lane Stormville, NY 12582

Sampl	0	Information
Sallib		IIIIOIIIIauoii

DRINKING WATER

Collected by:

Date 11/22/21

11/23/21

Time

Matrix:

13:09

Location Code: Rush Request: **CEMCO** Standard Received by: Analyzed by:

see "By" below

CP

17:22

P.O.#:

aboratory Data

SDG ID: GCJ84535

Phoenix ID: CJ84537

Project ID:

MAHOPAC TREATMENT TRAILER

Client ID:

TREATMENT TRAILER WASTE

Parameter	Result	RL/ PQL	DIL	Units	AL MCL	MCLG Date/Time	Ву	Reference
Iron	35.1	0.20	1	mg/L	0.3	11/27/21	CPP	E200.7
*** Iron exceeds MCL level: Manganese *** Manganese exceeds MC	51.4	0.20	10	mg/L	0.3	12/01/21	EK	E200.7
Total Metal Digestion	Completed					11/24/21		E200.5/E200.7

RL/PQL=Reporting/Practical Quantitation Level DIL=Dilution (analysis required diluting to evaluate) ND=Not Detected BRL=Below Reporting Level (less than the reporting level, the lowest amount the laboratory can detect and report.) AL = Action Level MCL = Maximum Contaminant Level MCLG = Maximum Contaminant Level Goal

Comments:

Maximum Contaminant Level (MCL): New York State Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

Secondary DW Maximum Contaminant Level Goal (MCLG): 40 CFR Part 143 Secondary Goals. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

December 02, 2021

Reviewed and Released by: Helen Geoghegan, Project Manager

This SWPPP was prepared in accordance with SPDES Permit No. GP-0-20-001 and must be kept on the job site and available for use of contractors and sub-contractors. Certifications by applicant/developer and by the contractors/subcontractors are included. A copy of the Notice of Intent (NOI), which must be filed at least 5 days prior to the commencement of any work along with the MS4 SWPPP acceptance form, is included herein. Notice of Termination (NOT) must be filed when all stormwater management facilities are in place and the site has been stabilized with specified vegetation. Sample inspection forms are included. Operation and maintenance plan is attached and included both temporary and permanent facilities maintenance. This SWPPP, together with all required plans, completed inspection forms and log of activities including any mitigation of items noted on inspection forms must be kept on the job site and available for inspection by all regulatory authorities.

FULL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REPORT

Prepared For:

Mahopac Wells 1, 2, & 3
Town of Carmel, Putnam County, New York

Prepared By:



ATZL, NASHER & ZIGLER Engineers – Surveyors – Planners 232 North Main Street New City, New York 10956 Tel. (845) 634-4694 • Fax (845) 634-5543

This plan has been prepared to comply with the provisions of the SPDES general permit no. GP-0-20-001, issued by the New York State Department of Environmental Conservation for storm water discharges from construction site activities.

I certify under penalty of law that this document and all attachments were prepared and revised under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.

Revision 3: January 19, 2024 Revision 2: May 02, 2022

Revision 1: September 30, 2021

Date: August 27, 2021

Job No. 4870

Ryan A. Nasher, P.E. License No.: 89066 New York State Professional Engineer

7

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- 2.3 General Contractor*:
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5.1 NON-STORMWATER DISCHARGES

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Section 1: 0, I, &M

MAHOPAC WELLS 1, 2, & 3

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

SECTION 1:

OPERATION INSPECTION AND MAINTENANCE PLAN REPORT

BY

ATZL, NASHER & ZIGLER ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

> TEL: (845) 634-4694 FAX: (845) 634-5543 E-MAIL: rnasher@anzny.com

1.0 INTRODUCTION

1.1 Notice of Intent:

Section 402 of the Clean Water Act requires permits for stormwater discharge from construction activities, which disturb one or more acres of land to obtain a permit. To implement this law, the New York State Department of Environmental Conservation (NYSDEC) issued the General Permit GP-0-20-001 for Stormwater Discharges from Construction Activities. The Notice of Intent (NOI) is the means to obtain coverage under this permit.

1.2 SWPPP Goals and Objective:

The goal of the Stormwater Pollution Prevention Plan (SWPPP) is to control runoff of pollutants from the project site during and after construction activities by complying with the NY State Pollutant Discharge Elimination System (SPDES) Stormwater Permit for construction activities and local rules and regulations. The SWPPP will implement the following practices:

- Reduction or elimination of erosion and sediment loading to waterbodies during construction;
- Control of the impact of stormwater runoff on the water quality of the receiving waters;
- Control of the increased volume and peak rate of runoff during and after construction; and
- Maintenance of stormwater controls during and after completion of construction.

The SWPPP will incorporate the proper selection, sizing and siting of the Stromwater Management Practices (SMPs) to protect water resources from stormwater impacts. The design of the proposed SMPs were determined using current engineering methodologies to provide appropriate sizing criteria to avoid overburdening stormwater conveyance structures. Erosion and Sediment Control (ESC), Water Quantity Control, and Water Quality Controls are inter-related components of the SWPPP.

The SWPPP is intended to be a "living" document. The document should be revised and updated by a qualified professional whenever site conditions dictate. Any proposed revisions shall undergo review by the owner or his designated representative prior to incorporation in the SWPPP and implementation at the site. Any proposed modifications shall be in accordance with the New York State Department of Environmental Conservation's technical standards.

2.0 SITE DESCRIPTION

2.1 Project Name & Location:

Mahopac Wells 1, 2, & 3
Town of Carmel
Putnam County, New York
Town of Ramapo Tax Map: Section 75.20, Block 2, Lot 68

2.2 Owner/Operator Name & Address:

Suez Water New York, Inc. Attention: Steven Garabed 162 Old Mill Road West Nyack, NY 10994

Email: steven.garabed@suez.com

2.3 General Contractor*:

(Company Name)	
(Street Address)	
(City, State, Zip Code)	
Phone Number)	

2.4 Description:

The project site is located east of Bucks Hollow Road, $\pm 890 ft$ south of Astor Drive in the Town of Carmel, Putnam County, New York. The site has an area of about 53.382 acres. The existing site consists of a pond, woods, grass, an access gravel area road, and some impervious area. The developed site includes the construction of a building and an increase in the gravel coverage.

^{*}note – General Contractor shall be identified prior to commencement of work.

Soil Name	Soil Map Symbol	Hydrological Soil Group
Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	CrC	В
Natchaug muck, 0 to 2 percent slopes	NcA	D
Sun loam	Sh	D

^{*} Source: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

Soil disturbing activities will include clearing and grubbing; installation of a stabilized construction entrance; grading (cuts & fills); excavation for the installation of drainage pipes, SMPs, sanitary sewer connections, water main connections, building foundations, stormwater management facilities and the preparation for final planting and seeding.

2.5 Impervious Cover:

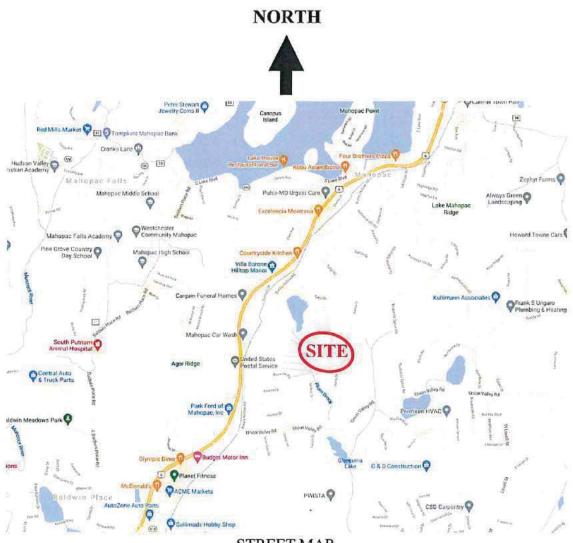
Impervious cover within the planned disturbance will be increased from 0.126 acres in the existing condition to 0.242 acres in the proposed condition.

2.6 Site Area:

The site is approximately 53.382 acres and about 0.994 acres will be disturbed by the proposed construction activities.

^{**} HSG "B & D" were used in the drainage calculation.

2.7 Location Map:



STREET MAP Source: maps.google.com

2.8 Sequence of Major Activities:

Phasing and schedule of construction is as follows (several phases will overlap):

- Phase 1: Clearing and grubbing of designated areas
- Phase 2: Land grading according to the approved site development plan
- Phase 3: Building construction
- Phase 4: Utilities construction
- Phase 5: Final Grading, landscaping

The general order of activities will be as follows:

- Schedule a pre-construction meeting.
- 2. Locate natural resources and the limit of disturbance per approved plans.
- 3. Install perimeter erosion and sediment control practices (silt fences).
- 4. Install construction entrances and temporary staging.
- 5. Limit grading for installation of E&SC practices.
- 6. Dispose clearing and grading materials as construction progresses.
- 7. Stockpile top soil and stabilize.
- 8. Perform rough grading/cut & fill and stabilize inactive areas.
- Install utilities and drainage structures.
- 10. Construct foundation and building structure as per plan.
- 11. Apply soil restoration practices as described in the plan.
- 12. Perform final stabilization, i.e. top soil and landscaping.
- Remove sediment accumulations and complete permanent post construction SMPs per the approved plan.
- 14. Remove E&SC practices and apply for a Notice of Termination (N.O.T.).

3.0 CONTROLS

3.1 Erosion and Sediment Controls Stabilization Practices:

3.1.1 Temporary Stabilization:

Topsoil, stockpiles, and soils that are exposed and left bare for a period of 14 days which are not being graded, not under active construction for 14 days or more, or not scheduled for permanent seeding within 14 days will be stabilized with temporary seed and mulch. All grass seed mixtures and application rates shall comply with Sediment and Erosion Control Plan.

Areas of the site, which are to be paved; will be temporarily stabilized by applying stone sub-base until bituminous pavement can be applied.

3.1.2 Permanent Stabilization:

Disturbed portions of the site where construction activities permanently cease shall be stabilized with permanent seed no later than 14 days after the last construction activity.

3.2 Structural Practices:

Proposed measures will include silt fences, construction fence, concrete washout, stockpile, and stabilized construction entrance.

3.3 Stormwater Management Water Quality:

Stormwater runoff generated by the rooftop will be directed towards the proposed dry pond system through a combination of downspouts and pipes.

The stormwater management system has been designed to comply with the most recent NYSDEC design manual requirements. The dry pond system is designed to treat the first flush water quality volume of required impervious area, according to NYSDEC redevelopment rules.

The property owner shall be responsible for the long-term operation, maintenance and inspection of the proposed stormwater management facilities and provide maintenance records to the Town of Carmel.

3.3.1 Name of Receiving Waters:

The site drains towards a NYSDEC wetland. The site is located in one of the watersheds identified in Appendix C of GP-0-20-001.

3.4 Peak Flow Attenuation:

In order to provide the zero net increase of peak runoff, a Dry Pond System has been proposed.

3.5 Runoff Conveyance Systems:

The stormwater pipes and the 12-inch riser with domed structure are design to convey the 10-year peak flow discharge.

3.6 Other Controls:

3.6.1 Waste Materials:

All waste materials will be collected and stored in securely lidded meta dumpsters rented from , a solid waste managemen
company located in Putnam County (name of carting company to be identified 30 days prior to commencement of work). The dumpsters will meet Town of Carmel, Putnam
County, and New York State solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpsters. The dumpsters will be emptied as necessary, and the trash will be hauled off site to (destination to be identified 30 days prior to
commencement of work). No construction waste materials will be buried on site. All personnel will be instructed regarding the correct procedure for waste disposal. Notice stating these practices will be posted in the office trailer and
the Job Supervisor, individual who is responsible for managing the day to day site operations, will be responsible for seeing that these procedures are followed (Job Supervisor shall be identified 30 days prior to commencement of work).

3.6.2 Hazardous waste:

All hazardous waste materials will be disposed of in the manner specified by local or state regulation or by the manufacturer. Site personnel will be instructed in these practices and _______, Job Supervisor, individual who is responsible for managing the day to day site operations, will be responsible for seeing that these procedures are followed (Job Supervisor shall be identified 30 days prior to commencement of work).

3.6.3 Sanitary Waste:

A licensed sanitary waste management contractor (sanitary waste management contractor to be identified 30 days prior to commencement of work) will collect all sanitary waste from the portable units.

3.6.4 Offsite Vehicle Tracking:

A stabilized construction entrance and gravel pad will be provided to wash or spray-clean trucks over before leaving the site in order to prevent track-out of dirt, mud, debris and dust. In addition, trucks will be covered with a tarp and at least 6 inches of freeboard clearance will be maintained to keep excessive dust from escaping the truck during hauling operations.

3.7 Timing of Control Measures:

As indicated in the Sequence of Major Activities, the stabilized construction entrance and other sediment and erosion control activities will be constructed prior to earthwork activities on any part of the site. Any soil areas that are exposed and left bare for a period of 14 days which are not being graded, not under active construction for 14 days or more, or not scheduled for permanent seeding within 14 days will be treated with temporary seed and mulch. Once construction activity ceases permanently in an area, that area will be stabilized with permanent seed and mulch. After the entire site is stabilized, accumulated sediments will be removed from the sediment and erosion control structures and the controls will be removed.

3.8 <u>Certification of Compliance With Federal, State And Local Regulations:</u>

The stormwater pollution prevention plan reflects New York State Department of Environmental Conservation requirements for storm water management and erosion and sediment control, as established in Article 17, Titles 7, 8 and Article 70 of the Environmental Conservation Law. To ensure compliance, this plan was prepared in accordance with guidelines issued with the SPDES General Permit for Storm Water Discharges from Construction Activities that are Classified as "Associated with Construction Activity", published by the NYSDEC.

4.0 MAINTENANCE & INSPECTION PROCEDURES

4.1 Sediment & Erosion Control Inspection And Maintenance Practices:

The following are inspection and maintenance practices that will be used in coordination with the SWPPP Construction Log Book prepared for this project, the template which is included in Appendix A, to maintain sediment and erosion controls:

- The Operator shall have a qualified professional conduct an assessment of the site prior to the commencement of construction and certify in this inspection report that the appropriate erosion and sediment controls described in the SWPPP, an required by the SPDES General Permit for Stormwater Discharges, have been adequately installed or implemented to ensure overall preparedness of the site for commencement of construction. Qualified professional means a person knowledgeable in the principles and practice of erosion and sediment controls, such as a licensed professional engineer, Certified Professional in Erosion and Sediment Control (CPESC), soil scientist, or someone working under the direction and supervision of a licensed professional engineer, Certified Professional in Erosion and Sediment Control (CPESC), or soil scientist (person must have experience in the principles and practices of erosion and sediment control). The template for the initial inspection and assessment is included in Appendix A.
- All control measures will be inspected by a qualified professional at least once each week (7 days) and immediately following any storm event of 0.5 inches or greater.
- All measures will be maintained in good working order. If a repair is necessary, it will be initiated within 24 hours of discovery.
- Provide sprinkle water on the dirt road during hot summer or when appropriate to prevent particles to be air born.
- Built up sediment to be removed from the silt fence when it has reached 1/3
 the height of the fence. Sediment traps will be cleaned when built up
 sediments reaches 25 percent of design capacity.
- Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
- A maintenance inspection report will be filled out after each inspection and will become part of the SWPPP.
- , Job Supervisor Trained Individual per GP-0-20-001, will select individuals who will be responsible for coordinating efforts with the qualified professional for regular inspections, maintenance and repair activities, and filling out the inspection and maintenance report forms. Inspection reports will summarize:

- 1. Name of Inspector
- 2. Qualifications of Inspector
- 3. Date of Inspection
- 4. Weather Conditions
- 5. Areas inspected, including measurements
- 6. Areas that have undergone temporary and permanent stabilization
- 7. Indicate all disturbed areas that have not undergone active site work during the previous 14-day period
- 8. Observed condition of all erosion and sediment control practices
- Inspect all sediment control practices and record approximate degree of sediment accumulation as a percentage of the sediment storage volume
- 10. Actions Taken to Correct Problems
- 11. Incorporate changes necessary to the SWPPP

The template for regular inspections is included in Appendix A.

- Personnel selected for inspection and maintenance responsibilities will receive training from the Job Supervisor and/or the qualified professional. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used on site in good working order.
- The Operator shall ensure that a record of all inspection reports is maintained in the SWPPP Construction Log Book. The site logbook shall be maintained on site and be made available to the permitting authorities upon request. Prior to the commencement of construction, the Operator shall certify in the site log book that the SWPPP was prepared in accordance with the State's standards and meets all Federal, State and local erosion and sediment control requirements. The Operator shall retain copies of SWPPPs and any reports submitted in conjunction with this permit, and records of all data used to complete the NOI to be covered by this permit, for a period of at least three years from the date that the site is finally stabilized. The Operator shall post at the site, in a publicly accessible location, a summary of the site inspection activities on a monthly basis. The template for SWPPP Construction Log Book is included in Appendix A.
- Prior to filing of the Notice of Termination (NOT) or the end of permit term, the Operator shall have the qualified professional perform a final site inspection. The qualified professional shall certify that the site has undergone final stabilization using either vegetative or structural stabilization methods and that all temporary erosion and sediment controls (such as silt fencing) not needed for long-term erosion control have been removed. Final stabilization means that all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of 80% has been established, or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structure. The template for final inspections is included in Appendix A.

- Clean out all temporary structures and pipes upon completion of the project.
- When the site has been finally stabilized, the operator must submit a Notice of Termination form to terminate coverage under the SPDES General Permit GP 0-20-001. The permittee must identify all of the permanent stormwater management structures that have been constructed. In addition, an manual describing the operation and maintenance practices that will be necessary for the structures to function as designed after the site is stabilized must be finalized and in-place. The permittee must also certify that the permanent structure have been constructed as described in the SWPPP.

The inspection procedures that will be used for the construction of the proposed Stormwater management facilities are included in the CONSTRUCTION INSPECTION CHECKLIST FORM prepared for this project, the template of which is included in Appendix B, to be used to ensure proper construction.

4.2 Summary of SWPPP Required Document Filings:

The following table provides a summary of the required forms and inspections that need to be completed as part of the SWPPP requirements and which checklist or report document forms need to be used for each:

Name of Document	Form to be Used	When to complete
Pre-Construction Meeting Documents Form	Appendix A – SWPPP Construction Site Log Book	Prior to beginning of construction
Owner/Operator Certification	Appendix A, SWPPP Report	Prior to beginning of construction
Prime Contractor Certification	SWPPP Report	Prior to beginning of construction
Sub-Contractor Certification	SWPPP Report	Prior to beginning of construction
Pre-Construction Site Assessment Form	Appendix A	Prior to beginning of construction
Construction Duration Inspection Forms	Appendix A	Every seven days
Three-Month Status Reports	Appendix A	Every three months
SMPs Construction Inspection Checklist Form	Appendix B	During the construction of the proposed stormwater facilities
Final Stabilization and Retention of Records	Appendix B	At completion of project
Spill Control & Prevention Log	Appendix C	Before and after completion of Project
Stormwater Facilities Maintenance Plan and Inspection Checklists	Appendix D	After completion of Project

5.0 NON-STORM WATER DISCHARGES

5.1 Non-Stormwater Discharges:

It is expected that the following non-storm water discharges will occur from the site during the construction period:

- Water from water line flushing.
- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
- Uncontaminated groundwater (from natural springs)

6.0 INVENTORY FOR POLLUTION PREVENTION PLAN

6.1 Material substances:

The materials or substances listed below are expected to be present on the site during construction:

- Concrete
- Detergents
- Paints (enamels and latex)
- Metal Studs
- Roofing Materials
- Tar and Paving Materials
- Fertilizers
- · Petroleum Based Products
- Cleaning Solvents
- Wood
- Masonry Block

7.0 SPILL CONTROL & PREVENTION

7.1 Material Management Practices:

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff:

7.1.1 Good Housekeeping:

The following good housekeeping practices will be followed on site during the construction project:

- An effort will be made to store only enough products required to do the job.
- All materials stored on site will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
- Product will be kept in their original containers with the original manufacturer's label.
- Substances will not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, all of a product will be used up before disposing of the container.
- Manufacturer's recommendations for proper use and disposal will be followed.
- The Job Supervisor will inspect daily to ensure proper use and disposal of materials on site.

7.1.2 Hazardous Products:

The following practices will be used to reduce the risks associated with hazardous materials:

- Products will be kept in original containers unless they are not reseal able.
- Original labels and material safety data will be retained; they contain important product information.
- If surplus product must be disposed of, manufacturer's or local and State recommended methods for proper disposal will be followed.

7.2 Product Specific Practices:

The following product specific practices will be followed on site:

7.2.1 Petroleum Products:

All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers, which are clearly labeled. Any asphalt substances used on site will be applied according to the manufacturer's recommendations.

7.2.2 Fertilizers:

Fertilizers will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to stormwater. Storage will be in a covered shed. The content of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

7.2.3 Paints:

All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm drainage system, but will be properly disposed of according to manufacturer's instructions or State and local regulations.

7.2.4 Concrete Trucks:

Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site.

7.3 Spill Control Practices:

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanups:

- Manufacturer's recommended methods for spill cleanup will be clearly
 posted and site personnel will be made aware of the procedures and the
 location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the
 material storage areas on site. Equipment and materials will include, but not
 be limited to, brooms, dustpans, mops, rags, gloves, goggles, kitty litter,
 sand, sawdust, and plastic and metal trash containers specifically for this
 purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated, and personnel will wear appropriate protective clothing to prevent injury from contact with hazardous substances.
- Spills of toxic or hazardous material will be reported to the appropriate State
 or local government agency, regardless of the size of the spill. The Spill
 Control & Prevention Log form provided in Appendix C should be used for
 this purpose.
- The spill prevention plan will be adjusted to include measures to prevent a
 repetitive type of spill from re-occurring and how to clean up the spill if it
 does re-occur. A description of the spill, what caused it, and the cleanup
 measures will also be included.
- The Job Supervisor responsible for daily site operations, will be designated as the spill prevention and cleanup coordinator. He will designate at least

three other site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of the responsible spill personnel will be posted in the material storage area and in the office trailer on site.

8.0 SUPPORTING PLANS & REPORTS

- 1. Site Plan Drawings prepared by Atzl, Nasher & Zigler
- 2. Soil & Erosion Control Plans prepared by Atzl, Nasher & Zigler
- 3. Stormwater Management Design Report by Atzl, Nasher & Zigler

9.0 POLLUTION PREVENTION PLAN CERTIFICATION

9.1 OWNER/OPERATOR CERTIFICATION

"I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I also certify under penalty of law that this document and all corresponding attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgement that I will receive as a result of submitting this NOI. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction and agree to comply with all the terms and conditions of the general permit for which this NOI is being submitted."

Signed:	Date:	
(Owner/Operator)		
(D.1. 12) 0 mil 1		
(Printed Name & Title)		
August 1980 August		
(Company Name, Address & Telephone N	(umber)	

10.0 CERTIFICATION BY CONTRACTORS

Made pursuant to the State Pollution Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (Permit No. GP 0-20-001) for:

Mahopac Wells 1, 2, & 3, Town of Carmel, Putnam County, New York

10.1 Prime Contractor Certification:

"I certify under penalty of law that I understand and agree to comply with the terms and conditions of the stormwater pollution prevention plan for the construction site identified in this plan as a condition of authorization to discharge stormwater. I also understand that the operator must comply with the terms and conditions of the New York State 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."

Prime Contractor:	
(Signature)	(Company)
(Name)	(Street Address)
(Title)	(City, State, Zip Code)
(Date)	(Phone Number)

10.2 Sub-Contractor Certification:

"I certify under penalty of law that I understand and agree to comply with the terms and conditions of the stormwater pollution prevention plan for the construction site identified in this plan as a condition of authorization to discharge stormwater. I also understand that the operator must comply with the terms and conditions of the New York State 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."

Sub-Contractor:	
(Signature)	(Company)
(Name)	(Street Address)
(Title)	(City, State, Zip Code)
(Date)	(Phone Number)

CONTRACTOR and SUBCONTRACTOR CERTIFICATION STATEMENT

for the New York State Department of Environmental Conservation (DEC) State Pollutant Discharge Elimination System Permit for Stormwater Discharges from Construction Activity (GP-0-20-001)

As per Part III.A.6 on page 13 of GP-0-20-001 (effective January 29, 2020):

'Prior to the commencement of construction activity, the owner or operator must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The owner or operator shall have each of the contractors and sub-contractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the trained contractor. The owner or operator shall ensure that at least one trained contractor is on site on a daily basis when soil disturbance activities are being performed.'

The owner or operator shall have each contractor and subcontractor involved in soil disturbance sign a copy of the following certification statement before they commence any construction activity:

	NYR DEC Permit ID	Municipality (MS4)
implement any corrective actions identified by that the owner or operator must comply with State Pollutant Discharge Elimination System construction activities and that it is unlawful to cause or contribute to a violation of water	y the qualified inspected the terms and condition on ("SPDES") general p for any person quality standards. Fur tion of the referenced	ns of the most current version of the New York ermit for stormwater discharges from thermore, I understand that certifying false, permit and the laws of the State of New York and
Responsible Corporate Officer/Partner S	ignature Date	
Name of above Signatory	Name of C	Company
Title of above Signatory	Mailing A	ddress
Telephone of Company	City, State	, and Zip
Identify the specific elements of the	SWPPP the contrac	tor or subcontractor is responsible for:
MRAINED CONTRACTOR FOR TH	IE CERTIFIED CC	NTRACTOR OR SUBCONTRACTOR
Name of Trained Employee	Tide of Train	ned Employee NYSDEC SWT #

A copy of this signed contractor certification statement must be maintained at the SWPPP on site

Append:x-A

MAHOPAC WELLS 1, 2, & 3

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

APPENDIX-A CONSTRUCTION SITE LOGBOOK

BY

ATZL, NASHER & ZIGLER

ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

> TEL: (845) 634-4694 FAX: (845) 634-5543 E-MAIL: rnasher@anzny.com

NY STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM FOR CONSTRUCTION ACTIVITIES

SWPPP CONSTRUCTION SITE LOG BOOK

For

Mahopac Wells 1, 2, & 3
Town of Carmel
Putnam County, New York

Table of Contents

- I. Pre-Construction Meeting Documents.
 - a. Preamble to Site Assessment and Inspections
 - b. Operator's Certification
 - c. Qualified Professional's Credentials & Certification
 - d. Pre-Construction Site Assessment Checklist
- II. Construction Duration Inspections
 - a. Directions
 - b. Modification to the SWPPP
- III. Monthly Summary Reports
- IV. Monitoring, Reporting, and Three-Month Status Reports
 - a. Operator's Compliance Response Format

Properly completing forms such as those contained in this document meet the inspection requirement of NYSDEC SPDES GP for Construction Activities. Completed forms shall be kept on site at all times and made available to authorities upon request.

L FRE-COI	151 RUCTION MEETING DUCUMENTS
Project Name	MAHOPAC WELLS 1, 2, & 3
Permit No.	Date of Authorization
Name of Operate	or
Prime Contracto	or and the same of
	5005

DDF CONCEDUCATION ASSESSED SOCIATIONS

a. Preamble to Site Assessment and Inspections -the following information to be read by all person's involved in the construction of stormwater related activities:

The Operator agrees to have a qualified professional¹ conduct an assessment of the site prior to the commencement of construction² and certify in this inspection report that the appropriate erosion and sediment controls described in the SWPPP have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction.

Prior to the commencement of construction, the Operator shall certify in this site logbook that the SWPPP has been prepared in accordance with the State's standards and meets all Federal, State and local erosion and sediment control requirements.

When construction starts, site inspections shall be conducted by the qualified professional at least every 7 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater (Construction Duration Inspections). The Operator shall maintain a record of all inspection reports in this site log book. The site log book shall be maintained on site and be made available to the permitting authorities upon request. The Operator shall post at the site, in a publicly accessible location, a summary of the site inspection activities on a monthly basis (Monthly Summary Report).

The operator shall also prepare a written summary of compliance with this general permit at a minimum frequency of every three months (Operator's Compliance Response Form), while coverage exists. The summary should address the status of achieving each component of the SWPPP.

Prior to filing the Notice of Termination or the end of permit term, the Operator shall have a qualified professional perform a final site inspection. The qualified professional shall certify that the site has undergone final stabilization³ using either vegetative or structural stabilization methods and that all temporary erosion and sediment controls (such as silt fencing) not needed for long-term erosion control have been removed. In addition, the Operator must identify and certify that all permanent structures described in the SWPPP have been constructed and provide the owner(s) with an operation and maintenance plan that ensures the structure(s) continuously functions as designed.

- 1 "Qualified Professional means a person knowledgeable in the principles and practice of erosion and sediment controls, such as a Certified Professional in Erosion and Sediment Control (CPESC), soil scientist, licensed engineer or someone working under the direction and supervision of a licensed engineer (person must have experience in the principles and practices of erosion and sediment control).
- 2 "Commencement of construction" means the initial removal of vegetation and disturbance of soils associated with clearing, grading or excavating activities or other construction activities.
- 3 "Final stabilization" means that all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of eighty (80) percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

b. Operators Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Further, I hereby certify that the SWPPP meets all Federal, State, and local erosion and sediment control requirements. I am aware that false statements made herein are punishable as a class A misdemeanor pursuant to Section 210.45 of the Penal Law."

Name (Please	Print):
Title	Date:
Address:	
Phone:	Email:
Signature:	
c. Qualifi	ed Professional's Credentials & Certification
this project and described in the	by that I meet the criteria set forth in the General Permit to conduct site inspections for d that the appropriate erosion and sediment controls described in the SWPPP and as a following Pre-construction Site Assessment Checklist have been adequately installed ed, ensuring the overall preparedness of this site for the commencement of
Name (Please	Print):
Title	Date:
Address:	
Phone:	Email:
necessary)	ent, SWPPP, and Contractors Certification:
Yes No NA	one, 5 wiff, and Confidences Certification.
[] [] [] Is the [] [] [] Is the [] [] [] Is a c [] [] [] Have certi	Notice of Intent been filed with the NYS Department of Conservation? SWPPP on-site? Where? Plan current? What is the latest revision date? opy of the NOI (with brief description) onsite? Where? all contractors involved with stormwater related activities signed a contractor's fication? on Site Assessment Checklist (continued)

2. Resource Protection
Yes No NA
 [] [] Are construction limits clearly flagged or fenced? [] [] Important trees and associated rooting zones, on-site septic system absorption fields, existing vegetated areas suitable for filter strips, especially in perimeter areas, have been flagged for protection.
[] [] Creek crossings installed prior to land-disturbing activity, including clearing and blasting.
3. Surface Water Protection
Yes No NA
[] [] Clean stormwater runoff has been diverted from areas to be disturbed. [] [] Bodies of water located either on site or in the vicinity of the site have been identified and protected.
[] [] Appropriate practices to protect on-site or downstream surface water are installed. [] [] Are clearing and grading operations divided into areas <5 acres?
4. Stabilized Construction Entrance
Yes No NA
[] [] A temporary construction entrance to capture mud and debris from construction vehicles before they enter the public highway has been installed.
[] [] Other access areas (entrances, construction routes, equipment parking areas) are stabilized immediately as work takes place with gravel or other cover.
[] [] Sediment tracked onto public streets is removed or cleaned on a regular basis.
5. Perimeter Sediment Controls Yes No NA
[] [] Silt fence material and installation comply with the standard drawing and specifications.
[] [] Silt fences are installed at appropriate spacing intervals
[] [] Sediment/detention basin was installed as first land disturbing activity.
[] [] Sediment traps and barriers are installed.
6. Pollution Prevention for Waste and Hazardous Materials
Yes No NA
[] [] The Operator or designated representative has been assigned to implement the spill prevention avoidance and response plan.
[] [] The plan is contained in the SWPPP on page
[] [] Appropriate materials to control spills are onsite. Where?

II. CONSTRUCTION DURATION INSPECTIONS

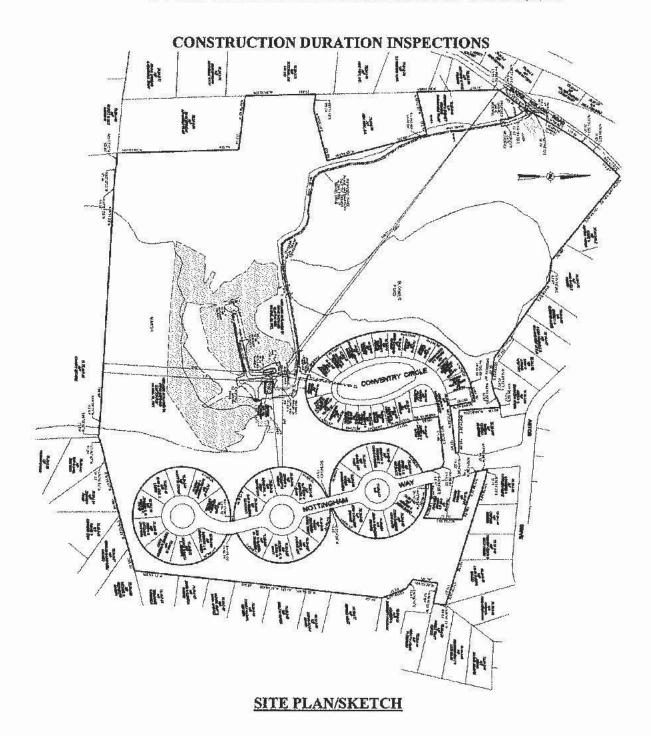
a. Directions:

Inspection Forms will be filled out during the entire construction phase of the project. Required Elements:

- (1) On a site map, indicate the extent of all disturbed site areas and drainage pathways. Indicate site areas that are expected to undergo initial disturbance or significant site work within the next 14-day period;
- (2) Indicate on a site map all areas of the site that have undergone temporary or permanent stabilization;
- (3) Indicate all disturbed site areas that have not undergone active site work during the previous 14-day period;

Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of sediment storage volume (for example, 10 percent, 20 percent, 50 percent);

- (5) Inspect all erosion and sediment control practices and record all maintenance requirements such as verifying the integrity of barrier or diversion systems (earthen berms or silt fencing) and containment systems (sediment basins and sediment traps). Identify any evidence of rill or gully erosion occurring on slopes and any loss of stabilizing vegetation or seeding/mulching. Document any excessive deposition of sediment or ponding water along barrier or diversion systems. Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated riser pipes to pass water; and
- (6) Immediately report to the Operator any deficiencies that are identified with the implementation of the SWPPP.



Date of Inspection
Onalified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

CONSTRUCTION DURATION INSPECTIONS

	ning Water Quality
Yes No	THE PARTY NAME AND ADDRESS OF THE PA
	conditions?
[] []	[] Is there residue from oil and floating substances, visible oil film, or globules or grease?
	[] All disturbance is within the limits of the approved plans. [] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?
LILJ	[] Have receiving take/bay, stream, and/or westand been impacted by site from project:
Houseke	
Yes No	al Site Conditions
	[] Is construction site litter and debris appropriately managed?
	[] Are facilities and equipment necessary for implementation of erosion and sediment
	control in working order and/or properly maintained?
ra fa	[115 dast adequatery controlled.
	orary Stream Crossing
Yes No	NA [] Maximum diameter pipes necessary to span creek without dredging are installed.
	[] Installed non-woven geotextile fabric beneath approaches.
[] []	[] Is fill composed of aggregate (no earth or soil)?
[] []	[] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment
	from entering stream during high flow.
Runoff C	Control Practices
	ation Dewatering
Yes No	NA [] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
	[] Clean water from upstream pool is being pumped to the downstream pool.
AND COMPANY OF THE PARTY OF THE	[] Sediment laden water from work area is being discharged to a silt-trapping device.
	[] Constructed upstream berm with one-foot minimum freeboard.
2. Level: Yes No	-
	[] Installed per plan.
ii ii	[] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden
r1 r1	flow.
[] []	[] Flow sheets out of level spreader without erosion on downstream edge.
3. Interce	eptor Dikes and Swales
Yes No	
	[] Installed per plan with minimum side slopes 2H:1V or flatter.
	[] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring. [] Sediment-laden runoff directed to sediment trapping structure
4. Stone	Check Dam

	[]	NA [] Is channel stable? (flow is not eroding soil underneath or around the structure). [] Check is in good condition (rocks in place and no permanent pools behind the structure).
[]	[]	[] Has accumulated sediment been removed?.
Yes []	No	Outlet Protection NA [] Installed per plan. [] Installed concurrently with pipe installation.
1. To Yes	pso No	pilization il and Spoil Stockpiles NA [] Stockpiles are stabilized with vegetation and/or mulch. [] Sediment control is installed at the toe of the slope.
Yes	No []	etation NA [] Temporary seedings and mulch have been applied to idle areas. [] 4 inches minimum of topsoil has been applied under permanent seedings
1. Sta Yes [] []	abili No [] [] []	t Control zed Construction Entrance NA [] Stone is clean enough to effectively remove mud from vehicles. [] Installed per standards and specifications? [] Does all traffic use the stabilized entrance to enter and leave site? [] Is adequate drainage provided to prevent ponding at entrance?
[] [] []	No [] []	
Yes [] [] []	No [] [] [] []	Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices) NA [] Installed concrete blocks lengthwise so open ends face outward, not upward. [] Placed wire screen between No. 3 crushed stone and concrete blocks. [] Drainage area is lacre or less. [] Excavated area is 900 cubic feet. [] Excavated side slopes should be 2:1.

[]	[]	[] 2" x 4" frame is constructed and structurally sound. [] Posts 3-foot maximum spacing between posts. [] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at
No. of Acres	20002000	max 8-inch spacing. [] Posts are stable, fabric is tight and without rips or frayed areas.
[]	[]	[] Sediment accumulation% of design capacity.
	100	orary Sediment Trap
Yes	No	NA
[]	[]	[] Outlet structure is constructed per the approved plan or drawing.
[]	[]	[] Geotextile fabric has been placed beneath rock fill.
[]	[]	[] Sediment accumulation is% of design capacity.
5. T	emp	orary Sediment Basin
Yes	No	NA
[]	Π	[] Basin and outlet structure constructed per the approved plan.
	100000000000000000000000000000000000000	[] Basin side slopes are stabilized with seed/mulch.
		[] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[]	[]	[] Sediment accumulation is% of design capacity.
Not		Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
	Ī	Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

- 1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
- 2. The SWPPP proves to be ineffective in:
 - a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
 - b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
- 3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:			
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III. Monthly Summary of Site Inspection Activities

Name of Permitted Facility:			l oday's Date:	Reporting Month:		
Location:]	Permit Identification #:		
Name and Telep	hone Number of Site Inspec	tor:				
Date of Inspection	Nome at Inches		of Inspector	Item	ems of Concern	
			5 T S			
			10.0			
"I certify under supervision in acc the information su directly responsib belief, true, accur	penalty of law that this doc cordance with a system design abmitted. Based on my inquir- ple for gathering the informat rate, and complete. I am aw suant to Section 210.45 of the	ned to assure to y of the personion, the infor- are that false	that qualified po on or persons v mation submit	ersonnel properly gath who manage the system ted is, to the best of the	nered and evaluated m, or those persons my knowledge and	
	tee or Duly Authorized Represen			ittee or Duly Authorized	AMERICA AMERICA	
Duly authorized repr	resentatives <u>must</u> have written aul	thorization, sub	mitted to DEC, to	sign any permit docume	nts.	

MAHOPAC WELLS 1, 2, & 3

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

APPENDIX-B

CONSTRUCTION INSPECTION CHECKLISTS

BY

ATZL, NASHER & ZIGLER

ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

> TEL: (845) 634-4694 FAX: (845) 634-5543 E-MAIL: rnasher@anzny.com

STORMWATER MANAGEMENT CONSTRUCTION INSPECTION CHECKLIST FORM

Project:	Mahopac Wells 1, 2, & 3
Location:	Town of Carmel, Putnam County, NY
Site Status:	V
Date of Inspection:	
Time of Inspection:	
Weather Conditions (including recent rain)	fali):
nspector's Name:	

CON	STRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
1. Pr			
Pre-c	onstruction meeting	Contract Contract Section (Contract Sec	
	and appurtenances on-site prior to construction timensions checked		
1.	Material (including protective coating, if specified)		
2.	Diameter		101Mio-481Mo
3.	Dimensions of metal riser or pre-cast concrete outlet structure	90 9000 900	
4.	Required dimensions between water control structures (orifices, weirs, etc.) are in accordance with approved plans		
5.	Barrel stub for prefabricated pipe structures at proper angle for design barrel slope		
6.	Number and dimensions of prefabricated anti-seep collars		
7.	Watertight connectors and gaskets	100000000000000000000000000000000000000	
8.	Outlet drain valve	ga reconscipantement	
Proje	ct benchmark near pond site	00 00 ds 199 ds594,559,498,700,000	
Equip	oment for temporary de-watering		

2. Subgrade Preparation		
Area beneath embankment stripped of all Vegetation, topsoil, and organic matter		
3. Pipe Spillway Installation		
Method of installation detailed on plans		
A. Bed preparation	24 10-000	
Installation trench excavated with specified side slopes		
CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
Stable, uniform, dry subgrade of relatively impervious material (If subgrade is wet, contractor shall have defined steps before proceeding with installation)		
Invert at proper elevation and grade	80.400.0840.004	
B. Pipe placement		
Metal / plastic pipe	87-87-75-02-03-02-04-04-04-04-04-04-04-04-04-04-04-04-04-	
Watertight connectors and gaskets properly installed		
Anti-seep collars properly spaced and having watertight connections to pipe		
Backfill placed and tamped by hand under "haunches" of pipe		
Remaining backfill placed in max. 8 inch lifts using small power tamping equipment until 2 feet cover over pipe is reached		
3. Pipe Spillway Installation		
Concrete pipe		
Pipe set on blocks or concrete slab for pouring of low cradle		
Pipe installed with rubber gasket joints with no spalling in gasket interface area		
Excavation for lower half of anti-seep collar(s) with reinforcing steel set		

	2015 Telephone (BL000000000000000000000000000000000000	22 75 NSA SEC	
Entire area where anti-seep collar(s) will come in contact with pipe coated with mastic or other approved waterproof sealant			
Low cradle and bottom half of anti- seep collar installed as monolithic pour and of an approved mix			
Upper half of anti-seep collar(s) formed with reinforcing steel set			
Concrete for collar of an approved mix and vibrated into place (protected from freezing while curing, if necessary)			
Forms stripped and collar inspected for honeycomb prior to backfilling. Parge if necessary.			
C. Backfilling	-	4	
Fill placed in maximum 8 inch lifts			
Backfill taken minimum 2 feet above top of anti- seep collar elevation before traversing with heavy equipment			
4. Riser / Outlet Structure Installation			
Riser located within embankment		***************************************	
A. Metal riser			
Riser base excavated or formed on stable subgrade to design dimensions			A CONTRACTOR OF THE CONTRACTOR
CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS	
Set on blocks to design elevations and plumbed		SCANNESS (Senanger Source Kala) all Ala	
Reinforcing bars placed at right angles and projecting into sides of riser			
Concrete poured so as to fill inside of riser to invert of barrel		7	
B. Pre-cast concrete structure	State	990 1	ri vizione

A CONTRACTOR OF THE CONTRACTOR	
Dry and stable subgrade	
Riser base set to design elevation	
If more than one section, no spalling in gasket interface area; gasket or approved caulking material placed securely	
Watertight and structurally sound collar or Gasket joint where structure connects to pipe spillway	
C. Poured concrete structure	
Footing excavated or formed on stable Subgrade, to design dimensions with reinforcing steel set	
Structure formed to design dimensions, with reinforcing steel set as per plan	
Concrete of an approved mix and vibrated into place (protected from freezing while curing, if necessary)	
Forms stripped & inspected for "honeycomb" prior to backfilling; parge if necessary	
5. Embankment Construction	
Fill material	
Compaction	
Embankment	
Fill placed in specified lifts and compacted with appropriate equipment	
Constructed to design cross-section, side slopes and top width	
Constructed to design elevation plus allowance for settlement	
6. Impounded Area Construction	
Excavated / graded to design contours and side slopes	
Inlet pipes have adequate outfall protection	
Forebay(s)	

Pond benches		20106 86 166
7. Earth Emergency Spillway Construction		
Spillway located in cut or structurally stabilized with riprap, gabions, concrete, etc.	SOIS - ALLOHANSON - NAVESHAD - NAVENNA - NAVESHAD - NAV	19064 009 09 b
Excavated to proper cross-section, side slopes and bottom width		3
Entrance channel, crest, and exit channel Constructed to design grades and elevations		
CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
8. Outlet Protection		
A. End section		
Securely in place and properly backfilled		
B. Endwall		
Footing excavated or formed on stable Subgrade, to design dimensions and reinforcing steel set, if specified		
Endwall formed to design dimensions with Reinforcing steel set as per plan	·	
Concrete of an approved mix and vibrated into place (protected from freezing, if necessary)		
Forms stripped and structure inspected for "honeycomb" prior to backfilling; parge if necessary		
C. Riprap apron / channel	I	
Apron / channel excavated to design cross- Section with proper transition to existing ground		
Filter fabric in place		
Stone sized as per plan and uniformly place at the thickness specified		
9. Vegetative Stabilization		
Approved seed mixture or sod		
Proper surface preparation and required soil Amendments	***************************************	

Excelsior mat or other stabilization, as per plan	
10. Miscellaneous	
Drain for ponds having a permanent pool	
Trash rack / anti-vortex device secured to outlet structure	
Trash protection for low flow pipes, orifices, etc.	
Fencing (when required)	
Access road	
Set aside for clean-out maintenance	
11. Stormwater Wetlands	
Adequate water balance	
Variety of depth zones present	
Approved pondscaping plan in place reinforcement budget for additional plantings	
Plants and materials ordered 6 months prior to construction	
Construction planned to allow for adequate planting and establishment of plant community (April-June planting window)	
Wetland buffer area preserved to maximum extent possible	
Comments:	
	~
Actions to be Taken:	

MAHOPAC WELLS 1, 2, & 3

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

APPENDIX-C SPILL CONTROL AND PREVENTION LOG

BY

ATZL, NASHER & ZIGLER

ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

> TEL: (845) 634-4694 FAX: (845) 634-5543 E-MAIL: rnasher@anzny.com

SPILL CONTROL & PREVENTION LOG MAHOPAC WELLS 1, 2, & 3

Town of Carmel Putnam County, New York

Date of Spill	Material Spilled	Spill Location	Cause	Cleanup	Agency Reported (Toxic/Hazardous)	December December 15
Date of Shill	material Spilled	Spiri Location	<u> cause</u>	Cleanup	Adelica Keberteo (Toxicinazardons)	Reoccurance Prevention Measure
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MAHOPAC WELLS 1, 2, & 3

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

APPENDIX-D MAINTENANCE AGREEMENT

BY

ATZL, NASHER & ZIGLER

ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

> TEL: (845) 634-4694 FAX: (845) 634-5543 E-MAIL: rnasher@anzny.com

Town of Carmel Stormwater Facility Maintenance Agreement

Whereas, the Town of Carmel, County of Putnam, State of New York ("Municipality") and Suez Water New York, Inc ("facility owner") want to enter into an agreement to provide for the long term maintenance and continuation of stormwater control measures approved by the Municipality for the below named project, Mahopac Wells 1, 2, & 3.

Whereas, the Municipality and the facility owner desire that the stormwater control measures be built in accordance with the approved project plans and thereafter be maintained, cleaned, repaired, replaced and continued in perpetuity in order to ensure optimum performance of the components.

Therefore, the Municipality and the facility owner agree as follows:

- This agreement inures to the benefit of the Municipality and binds the facility owner, its successors and assigns, to the maintenance provisions depicted in the approved project plans which are attached as Schedule A of this agreement.
- 2. The facility owner shall maintain, clean, repair, replace and continue the stormwater control measures depicted in Schedule A-1 and A-2 as necessary to ensure optimum performance of the measures to design specifications. The stormwater control measures shall include, but shall not be limited to, the following: pipes, and dry pond system.
- The facility owner shall be responsible for all expenses related to the maintenance of the stormwater control measures and shall establish a means for the collection and distribution of expenses among parties for any commonly owned facilities.
- 4. The facility owner shall provide for the periodic inspection of the stormwater control measures, not less than once in every five-year period, to determine the condition and integrity of the measures. Such inspection shall be performed by a professional engineer licensed by the State of New York. The inspecting engineer shall prepare and submit to the Municipality, within 30 days of the inspection, a written report of the findings, including recommendations for those actions necessary for the continuation of the stormwater control measures.
- The facility owner shall not authorize, undertake or permit alteration, abandonment, modification or discontinuation of the stormwater control measures except in accordance with written approval of the Municipality.

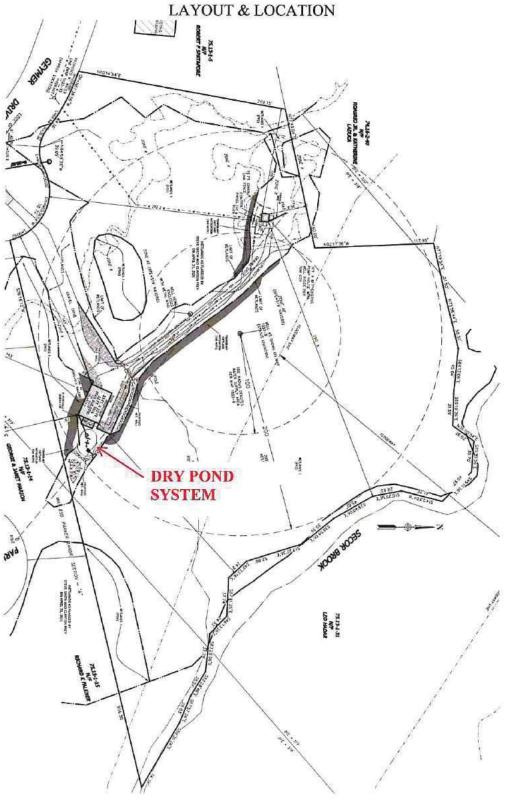
- The facility owner shall undertake necessary repairs and replacement of the stormwater control measures at the direction of the Municipality or in accordance with the recommendations of the Inspecting engineer.
- 7. The facility owner shall provide to the Municipality, within 30 days of the date of this agreement, a security for the maintenance and continuation of the stormwater control measures in the form of a bond, letter of credit or escrow account in the amount not to exceed \$2,500.00.
- This agreement shall be recorded in the Office of the County Clerk, County of Putnam together with the deed for the subject premises.
- 9. In the event that the Municipality determines that the facility owner has failed to construct or maintain the stormwater control measures in accordance with the project plan or has failed to undertake corrective action specified by the Municipality or by the inspecting engineer, the Municipality is authorized to undertake such steps as reasonably necessary for the preservation, continuation or maintenance of the stormwater control measures and to affix the expenses thereof as a lien against the property.
- 10. Nothing within this agreement shall be construed to impose any affirmative obligation or covenant of performance on the Municipality.

11.	This agreement is effective	
	97 E	

racing Owner. Suez water new York, INC
Owner's Representative: Steven Garabed, Manager of Engineering West Nyack Operations
Representative Signature:
ACKNOWLEDGEMENTS
State of New York)
County of) ss:
On the day of in the year before me, the undersigned, personally appeared Christopher Graziano, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.
Signature and office of individual taking acknowledgment
Town of Carmel:
Representative Signature: Richard J. Franzetti. P.E, BCEE, Town Engineer
ACKNOWLEDGEMENTS
State of New York)) ss: County of)
County of
On the day of in the year before me, the undersigned, personally appeared Steven Garabed, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.
Signature and office of individual taking acknowledgment

SCHEDULE "A-1"

STORMWATER MANAGEMENT FACILITIES



SCHEDULE "A-2"

STORMWATER MANAGEMENT SYSTEM INSPECTION AND MAINTENANCE SCHEDULE

Stormwater Management Structures:

- Stormwater Piping
- Dry Pond System

Inspections Schedule:

- Stormwater Pipes, Catch Basins and Control Structures:
 - o Monthly, and after major storms: Check for debris at inlets, outlets, and cleanouts.
- Dry Pond System
 - Monthly inspections during construction and on an annual basis thereafter.

Maintenance Schedule:

- Stormwater Piping: Must be cleaned as found necessary by inspection.
- Dry Pond System
 - Remove accumulated sediment and clean out and/or replace the filter gravel bed at the outfall pipe whenever accumulated sediment reaches a volume of 10% of the available basin capacity.
 - o Restore any eroded embankments.
 - Remove accumulated debris within the basin and at outfall structures.

Stormwater Piping Inspection and Maintenance Checklist

Project: Location: Site Status:		
Date: Time:		
Inspector:		*
Inspection/Maintenance Items	Satisfactory or Unsatisfactory	Comments/Corrective Action
1. Inspection (Quarter-annually, After Major St	orms)	
 Accumulated sediment exceeds 10% of the diameter of the pipe. 		*
Vegetation the reduces free movement of water through pipes.		
Pipe damage: Any dent that increases flow area by more than 10% or puncture that impacts performance		
Trash accumulated to reduce free movement of water through pipes.		
Inspector shall use one sheet for each individual pipe run (Provide sketch to show location of unsatisfactory items) ACTIONS TO BE TAKEN:		
COMMENTS:		E 24

Dry Pond System Inspection and Maintenance Checklist

Project: Location:		
Location:	Moderators (2004) 7.1. (2. 1977) 7.1. (2. 1977) 7.1. (2. 1977) 7.1. (2. 1977) 7.1. (2. 1977) 7.1. (2. 1977) 7.1	
Site Status:		
Status:		
Date:		
Date: Time:		
Inspector:		*****

Inspection/Maintenance Items	Satisfactory or Unsatisfactory	Comments/Corrective
1. Embankment and emergency spillway (Annu	al, After Major St	orms)
Vegetation and ground cover adequate		
2. Embankment erosion	C.2.2	
3. Animal burrows		
4. Unauthorized planting		
5. Cracking, bulging, or sliding of dam		
a) Upstream face		
b) Downstream face		
c) At or beyond toe		
Downstream		
Upstream	30°1980°1°30	
d) Emergency spillway	and secure property to the control of the control o	
6. Pond, toe & chimney drains clear and functioning		
7. Seeps/leaks on downstream face		F
8. Slope protection or riprap failure		
9. Vertical/horizontal alignment of top of dam "As-Built"		*
10. Emergency spillway clear of obstructions and debris		

11. Other (specify)	
2. Riser and principal spillway	(Annual)
Type: Reinforced concrete	
- Corrugated pipe	
- Masonry	
1. Low flow orifice obstructed	
2. Low flow trash rack.	
a) Debris removal necessary	
b) Corrosion control	
3. Weir trash rack maintenance	
a) Debris removal necessary	
b) corrosion control	
Excessive sediment accumulation insider riser	
Concrete/masonry condition riser and barrels	
a) cracks or displacement	
b) Minor spalling (1")	
c) Major spalling (rebars exposed)	
d) Joint failures	
e) Water tightness	
6. Metal pipe condition	
7. Control valve	
a) Operational/exercised	
b) Chained and locked	
8. Pond drain valve	1
a) Operational/exercised	
b) Chained and locked	
9. Outfall channels functioning	
10. Other (specify)	
6. Dry Pond Areas	
1. Vegetation adequate	

	2.	Undesirable vegetative growth		
	3.	Undesirable woody vegetation		972
	4.	Low flow channels clear of obstructions		
	5.	Standing water or wet spots		
	6.	Sediment and / or trash accumulation		
	7.	Other (specify)		· · · · · · · · · · · · · · · · · · ·
4.	Co	ondition of Outfalls	(Annual, After Majo	or Storms)
	1.	Riprap failures		
	2.	Slope erosion		
	3.	Storm drain pipes		
	4.	Endwalls / Headwalls		W. 50.00
	5.	Other (specify)	4.00	
5.	O	her	(Annual)	
80	1.	Encroachment on pond, wetland or easement area		
	2.	Complaints from residents		5-18-18-18-18-18-18-18-18-18-18-18-18-18-
	3.	Aesthetics		600000
		a) Grass growing required		
DO - 50440	20000000	b) Graffiti removal needed		MIN INVALLATION AND A STATE OF THE STATE OF
		c) Other (specify)		
Juriet.	4.	Conditions of maintenance access routes.		
-	5.	Signs of hydrocarbon build-up		
	6.	Any public hazards (specify)		
AC	TIC	ONS TO BE TAKEN:		
cc	MN	MENTS:		
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Appendix - E

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

APPENDIX-E

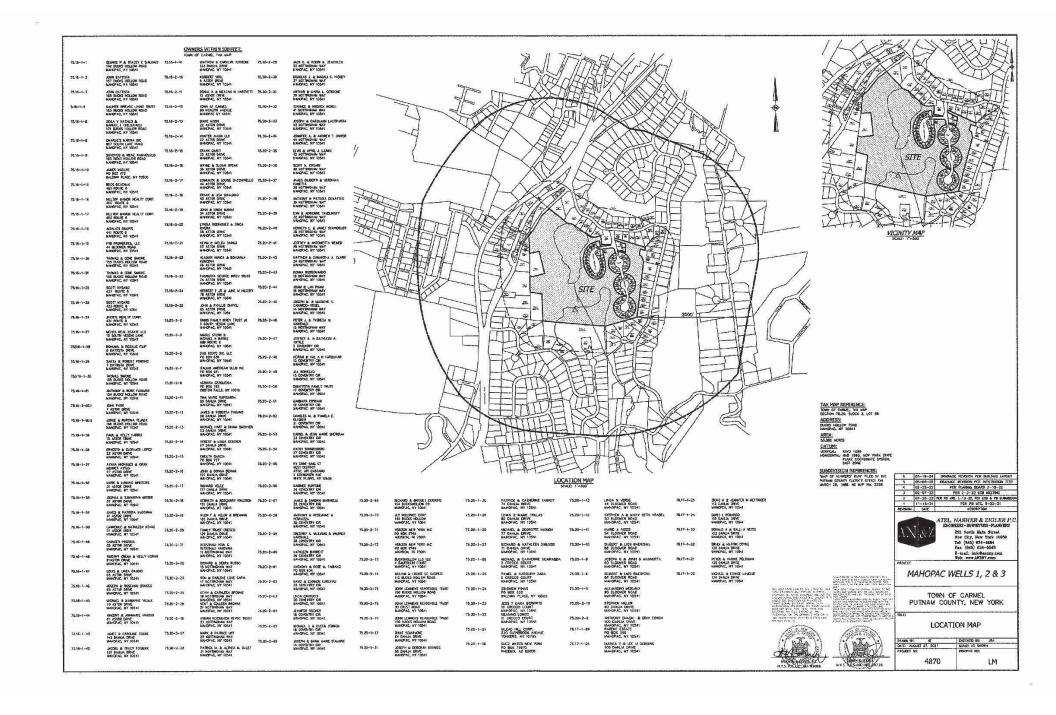
CONSTRUCTION PLANS IN (11"X17") FORMAT

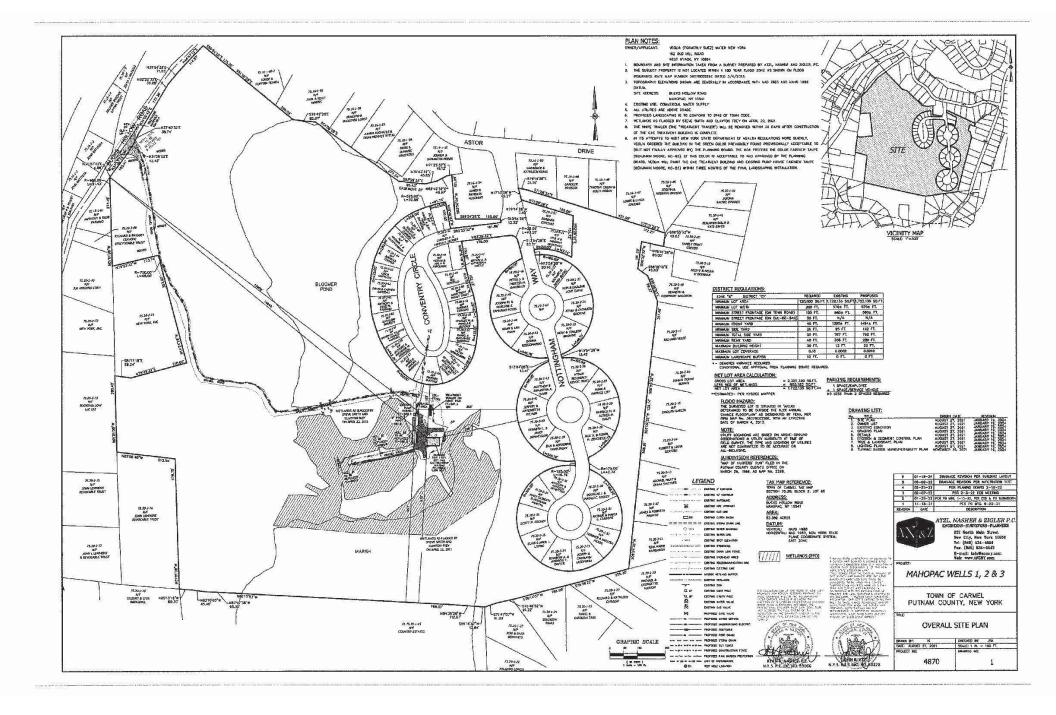
BY

ATZL, NASHER & ZIGLER

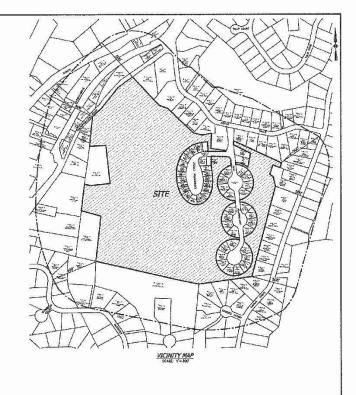
ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

> TEL: (845) 634-4694 FAX: (845) 634-5543 E-MAIL: rnasher@anzny.com





			JOHN OWN	OF CARMEL TAX H	O FEET:				
78.16-1-1	CEORGE P & TRACEY E SINLAND THE BUDGS HOLLOW ROAD MANIPAC, MY 10541	75,16-1-63	JAMES & CANDENE COOKE 145 DATEJA DRIVE WAHOPAC, NY 10541	75.20-2-26	NOT & COLLED BROWN 21 HOTTHIGHALE WAY MANIGERC, MY 10541	75.20-2-81	AMPHONY & ROSE M. FABRANO PD 90% 634 MARKPAC, NY 10641	75.17-1-25	DRAIG H & ZHAFER K 112 GANNA DRAIG WANDPCA, NY 10841
75.16-1-3	JONE BATTISTA 197 BUDKS HOLLOW ROAD MARIOPAC, MY 10541	75.16-1-42	JACOBE & TRACY POSMAN' 137 DANIA DENC MANGPAG, NY 10541	75.20-2-26	HYMAN RECHEACH REVOC TRUST 27 NOTRIGONAL BAY MANIPAC, NY 10541	75.20-2-82	BAND & CARREN GARCEAU 32 CONDITRY CIR WARRYNC, NY 10341	78.17-1-24	DORTE L SERANDO 116 DANLE DRING WANDPAC, NY 18541
75.16-1-3	MANOPAC, WY 10541	75.16~1~41	MATTHEW & CARALYH TUBERONE 135 DUMINA DRIVE MUHOPAC, NY 10541	75,30-2-27	MARK & PATRICE LET 28 NOTINGEHAM MAY MARGEAG, NY 10541	75.20-2-63	ENDA CARTUCO 20 CONDITITY OR HANDPAC, NY 10541	75.17-1-23	DOMALD A & SALU A 122 DAHUA DRIYE MAHDPSA, NY 10545
6.16-7-4	MALINER MREVOC LIVING TRUST 163 BUCKS HOLLEY ROAD MANOPAC, MY 10541	75.16-2-10	NORSERT YORL 6 ASIER DRAYE MAHOPAC, NY 18541	75.20-2-25	PARECK M, & ALTHER M. DALEY 31 NOTTHINHAM WAY MANDPAC, NY 10541	78.20-2-64	JEANNEER CISCHER 18 CONDENTITY CIR MANOPIAC, NY 10541	79.17-1-72	BRIAN & MARTIN COMM EZE DANLIA CIEVE MANUPAC, NY 10549
75.16-1-6	TOTA Y BATARO & HANNEL E CHELOGALI TH BUSICS HOLLOW ROAD MANDPAC MY 10541	75.16-2-11	DOWNER & MEADAN IN MARTHETT 12 ASTOR DRIVE MANOPAC, NY 19541	75-70-2-29	JACK D. & ROBIN W. ZENOVECK 33 NOTHINGHALL BAY MANOPAC, MY 10541	75,20-2-45	MICHAEL & BLEEN OFFREDE NE COVENTRY ON MANOPAC, NY 10541	78.17-1-21	PETER & VACRE PILO 130 SANUA DRIVE MAHOPAC, MY 10541
75.16-1-8	MANOPAC, NY 10541 CHARLE'S MARNA INC 807 SOUTH LINE 80AD MANOPAC, NY 10841	75.18-2-12	TOWN OF CARNES, SO MCALPRI AVENUE MANOPAG NY 10541	75.20+2+30	DOUGLAS 1 & WACALI C, INDICY 37 NOTEROHAM MAY MANOPAG, NY 10841	75.70-9-46	NOSERH & DARM WARR D'AMORE BANCPAC, NY 10541	78.17-1-20	MOSNAEL & BURKOE LAN 134 DRUGIA BRIVE WANDPING, NY 10049
75.16-1-9	SOTEROUS & MEME KANACISKEUS TOU BOOKS HOLLOW ROAD MANDOAC, NY 10541	75.14-2-13	DIAME KISSH 22 ASTOR DRIVE MAHDPAC, NY 10541	75-20-2-31	ARTHUR & MARKA L. CERSONE 39 NOTERCHAR HOLY MARGORAC, HY 10541	75.20-2-89	BIOLARD & BROCET CERVONE 154 BUCKSHOLLOW RD BIAHOPAC, NY 10541		
75.10-1-10	HANDONC, NY 10541 HANDS INCOMBE POLIEDIK 1727 BALDIKKI PLACE, NY 10505	70.16-2-14	HUNDER MARTIN LLC 22 ASTERN DREVE MANOPAC, NY 10541	75.20-2-32	HIMEMUE & MAISTEM MUNES 41 NOTTRICHAM WAY MAINOPAC, MY 10341	75.20-2-70	AUT HOLDMOS CURP SAA SHICKS HOLLOW MANOPAC, NY 10541		
75.16~1~15	BROS BEADON MS ROUTE 6 MAHOPAC, NY 10541	75.16-2-15	TRAME CRIME 32 ASTOR (TRIME MANGEAC, NY TESA)	75,20-2-33	JOSEPH & CAROLAIN LACOPARIA 43 MOTTHISHAW BAY MANOPAC, MY 10541	75.25-2-71	VERRION NEW YORK SHE PO BOOK 2746 ADDRESSA, TX 75000		
75.68~1~16	HALFOF MAKER REALTY CORP. 468 ROUTE 6 MAKERIC, NY 10541	75.16-2-16	WATER & SUSAN SPEAR 36 ASTER DRIVE WANDPAC, MY TIGHT	75.20-2-34	SMOOTER A. & AMERICA T. DWYCH 44 HOTTHIOHAM MAY MAHOPAC, MY 10541	75.20-2-72	YEROZON HEW YORK INC PO SIGN 2740 ADDRESON, TO 75GON		
73.98-1-17	HILTOP MANOR MEALTY CORP. 458 ROUTE 6 MANOPAC, NY 10841	75.16-7-17	DOMENICH & LOUISE SACCHITELLS 44 ASTOR DRIVE MANUFAC, NY 10541	75.10-2-35	MARCHE MA NOW! 43 MOLLEGIUM RVA ETAS W TANKE T L'AMEC	75.20-2-73	BUCKSHOLLDW LLG 122 4 GAUGREEN COURT MANOPAC, NY 10541		
7% id-1-18	ACHILES DOUPES 441 REUTE 5 MANPER, NY 10541	75.15-2-18	Frank & Lisa Gualdero 50 astor Drive Manopag, ny 10641	76.20-2-36	SCOTT M. DROWN 48 NOTHICH MI SAY MANOPAC, MY 10541	75.20-2-74	WALLIAM & LOURSE DE CASPERS 113 BAJOKS HOLLOW ROAD MUNICPAC, NY 10541		
75.15-1-19	FYB PROPERTIES, LLC 44 BLOCKER ROAD MAGPINE, NY 18841	75.15-2-19	ACHER & EMOSA MANNA SA ASTOR DRIVE MANCPAC, NY 19541	78.20-2-57	JAMES CAPRENT & VERDAMA PARETTA 38 MOTORCHAM STAY MANOPAC, NY 10581	75.20+2=75	JOHN LEIBERS REYDCARE TRUST DOS SUDIS HOLLOW ROAD MANOPAC, NY 10241		
75.15~1~20	THOMAS & SENE TIMONE 155 BUDGE HOUGH ROAD MAKEPAC HY 10041	75.16-2-20	LYMBIA RODRICARY A FRICA NAVIRA SS ASTER DIONE NAMERAC, MY 10541	75.20-2-3E	ANTHONY & PATERIA DEMATTED 35 NOTTHIGHAM SAY MANOPAC, MY 10541	75-20-2-74	JOHN LEMETHE REVOCABLE TRUST SO CREST ROAD MAKEPAC, NY 18941		
75,15-1-21	MAHOPAC, NY 10541 THOMAS & ODES SMARK THOMAS & ODES SMARK THOMAS & ODES SMARK	75.16-2-21	NEVAN & BATLEA DANNES 62 ASTOR DRIVE MANOPAC, NY TESHI	75.20-2-39	DAN & AURENCE TAVELNISKY 32 MOTTH/CHAM MAY MANOPAC, NY 10541	75.20-2-77	JOHN LEWISHER REVOCABLE TRUST 100 BUCKS HILLDS ROND MINOPAC, NY TRONS		
75,18-1-22	SCOTT NYCARD 427 ROUTE & MANOPAC, NY 10841	75.16-7-22	MADRIT REPORT & BOHUBLA SCHOOLA SE ASTOR DRIVE MARCHAC, NY 10541	75.28-2-40	ECHACTH L. & LANCE SCHEDGLER 28 MOTTHSHAM MAY MANDPAC, MY 10541	75.20-1-32	DIAME SCHIAVONE E4 DAHLM DRIVE MANOPAC, NY 10541		
7 <u>1.18</u> ~1~73	SCOTT NYCHES 423 ROUTE 6 MANDPAC, NY 1054	75.15-2-23	MAKOPAC, NY 10541 PAGROTTA GEORGE ROSEV TRUST 14 ASTOR DRIVE MAKOPAC, NY 10541	75.20-2-41	ETTREY & ARTUNETIA WENTE 25 MOTINGIAM SAY MANGPAC, MY 10541	75.20-1-31	JOSEPH & DEBORAH MINICE BEI DAHLA DRIVE MANCPAC, NY 10541		
75.18-1-24	JACKYE REALTY CORP. 421 ROUTE 8 MANOPAC, NY 10541	75.15-7-24	MANOPAC, NY 10541 HERSERT F JR & JAME IS HALERY 78 ASTOR DAINY MANOPAC, NY 10541	75.70-2-42	MATTHEW & SAHANTHA R (2.40) 24 MOTTHERIAM MAY LANGEAC, MY NOSAI	75.20-1-30	PARKER & CADERNE TARREY TO DAILLY DIVE MANOPAC, NY 10541		
75.16-1-27	MEHRA REAL ESTATE LLC 10 SOUTH YESON LAHE MANOPAC, NY 10541	75.16-2-25	MANDPAC, NY 19541 JOHN & PAYEUS BIAPOLI 85 ASTOR DRIVE MANDPAC, NY 1954	73-20-2-43	DOWN ROSTOWANCO 18 HOTTHGUAN TWY MANDPAC, NY 19541	75.20-1-29	EDMIN & MARKE TRELAS BO DALLIA DRIVE MANCPAC, NY 10541		
78,316-1-20	BERRILL & ROZAUE FILP 5 DATESTA DRIVE MARCPAC, NY 10641	75.20-2-2	BANCHAC, NY 1054 BANCS FAMILY INDEX 18UST (F S SOUTH VESCOR LANE MANCHAC, NY 10545	75 20-2-44	ADAM & LAN PHAM TE NOTTHINGSM WAY MANUPAC, NT TOGAL	75.20-1-28	MICHAEL & GEORGITE MARRON 77 DAVILM DEVE MARGERAC, NY 10841		
PS 15-1-29	SANSA & ROBERT PORTING 7 BATESIA DRIVE MAKOPAC, NY 10841	75.20-2-3	MANCPAC, NY TECHS MICOLE STEPS & MICOLE A BARRE MICOLE & MANCPAC, NY TOSAS	79.29-2-45	JOSEPH M. & MARLEHE S. CAMARCO-MODEL 24 NOTTHICHAIR WAY MANOPAC, MY 10541	75.20-1-27	RICHARD & KATHEEN BRUSSO TI CANLIA DISYE WANCEYAC, NY 10547		
753,18-1-30	THOMAS SMICHE 155 BUCKS HOLLOW ROAD MANOPAC, NY 10541	73.20-2-5	BAR MOUTE 8 MANOPAC, NY 10841 ENG ROUTE SSC, LLC	75.20-2-46	PETER 1 & THERESA W.	75.20-1-28	MOTACL & CARRENG SCARABRA 2 ORCOSO COURT MAHOPAC, NY 10541		
75.16-1-61	ANTHONY & ROSE FABRAND TON SUCKES WILLOW ROAD MANGPAC, NY 10341	75.20-2-7	ENG ROUTE SIC LLC PG BOX 636 BAHDPAC, NY TOENT ETALIAN AMERICAN CLUB INC	75.20-2-67	12 NOTTHICKEN WAY MANUPAC, NY 10541 EJFREY A. & KATHLEEN A.	75-20-1-26	PANEL & KARCUMA ZARA 8 CRCCCO COURT MANCPAC, NY 18541		
75.15-1-60.1	JOHN PARK T ASTOR EARNE MANOPAG, NY TOS-RI	75.20-2-8	HTALIAN AMERICAN CLUB INC PD BGR 537 MANCPAC, NY 10541 ADRINAN CERCURRA		EFFREY A. & NATHLESS A. TUTTLE S COVENTRY ON MANUFAC, MY 10541	75.20-1-24	ZISCNEW PINAS PO BOX 332 BALDISM PLACE, NY 10505		
75:16-1-60.2	POSTE T LEGENY LETENY TOUTE T LEGENY LETENY	75.20-2-11	ADRIANA CERCLEDIA PO BOX 782 CROPON FALLS, NY 10518 THA MARK RAPICASSA	75-10-1-45	ECDAM & HALL A H FARCEMAR 12 COMMENT OR MANGPAC, MY 100/11	75.20-1-23 75.20-1-22	JESS 7 DARA BERKHITS SO CRECCO COURT MAKEPAC, NY 10547 HALLANG LUNGO		
75,16-1-59	PACK & XOLY HAPPICS IS ASSOCIATED TO THE WHITE ACT HAPPICS	78.29-2-12	THE MARK REPOSABLE SO DARKE BRIVE MAROPAC, NY YOSHI AMINOS & ROBERTE PAGENO	75.10-2-49	SEL BOWELLD 15 CONDITRY CR MARKENE, MY 10541	75-29-1-21	MANGPAC, HT 10041		
>9.16-1-58	DAHESTO & GLORMER LOPEZ 20 ASTOR DRIVE LUNDPAC, NY 10541	75.20-2-13	MANUS & ROBERTA PAGANO BU DAGAN DRIVE BLANDFAC, NY 31541 MICHAEL HART & CHANA SHOTVER	75.70-2-60	DESATTISTA FAMILY TRUST 37 COMEMINY OR MANGPAC, NY 10544	75.20-1-15	GLEND HILL CORP. 250 GLENDROCK ANDRES YOMERS, NY 10705		
25.16-1-37	AYANA MICHALES & GRAN	75.20-2-14	MICHAEL HART & DIANA SHOTVER ST DAVEM BRIVE MAHDRAE, MY 10541 ROBERT & UANA CURTZER	75.70-2-51	Baselara Cetome 19 Comentry CR Mangpac, Ny 10841	75.20-1-13	BUEZ WARER HEM YERN PO BOK 79875 PHOEMIK, AZ BOGGÓ ENNA B YERGE		
7816-1-56	27 ASSOR DRIVE MARCHAL, HY 10541 WARK & LUMANG MHITTERS 3 ASSOR BRIVE MARCHAL, RY 10541	75.20-2-15	RESERT & DANA CONTZER 97 DANEA SENC MANCPAC, NY 10541 CMEDITH CARCIA	75.20-2-52	BLEDGER 21 COMERTEY OR MANUFAC, HY NOSEL	75.80-1-12	ENNA N VERCE 44 BLOOMER ROAD MANDPAC, NY 18641 STIPPIEN A DIMINY REDIC VELANT		
75.16-1-55	MANOPAC, NY 10541 ADSHLA R SAMARINA MOSER 37 ASTOR DRIVE MANOPAC, NY 10541	78.20-2-18	EMELYTH CARCIA PO BOX 757 MAHOPAC, MY 10541 JOHN & DORMA BONNA	75-70-2-53	DANGE & JEAN WARE SHERMAN 23 COMMITTEE COR WARRAC, MY 50541	75.20-1-11	STEPHEN A & MARY BETH WASEL SO BLOOMER ROAD MARCHAC, NY 10541 MARIE & B1770		
75.16~1-54	MANOPAC, NY 10541 ANIES IL PATRICIA MEGORIANI 41 ASTON DRIVE MANOPAC, NY 10641	75.20-2-17	CHIN & DONNA BONNA 107 DANGIA DANG MANDAC, NY 10541 RICHARD VELEZ	75.20-2-54	KATHY SOMHOWERS 27 CONSTRY OR MANIPAC, MY 10541	78-20-1-10	MARSE & BIZZO 54 SCOOMER ROAD MARSERAC, NY 18547 CARRENT & LIOS SAERISME		
78.16-1-50	BLANCHAE, NY TOSAL CAMPENCE & XADRLEN KEARE SI ASTOR DRIVE KANCHAE, NY TOSAI	75.20-2-18	RICHARD VELET 157 DAHEA DRINE MAHOPAC, NY 10541 KENNETH & ROSENARY WALDRON	75.10-2-55	NY CONF-UNC CT WEST DESTRICT ATTO: APT CASTAND 2 SELENDEW AND WITE PLANS, NY 10808	75.20-4-9	CABERT & LOS SAERSNE. 65 ELDONER ROAD MANOPAC, HY 10541 JOSEPH G & JOSE G MASADTE		
76-1-49	CARLORR PROSON SS ASTOR DRIVE MANOPAC, NY 10548	75.20-2-19	KENNETH A ROSENARY WALDRON TOO DAMELA DRIVE HAMMER'AC, NY TOORE HODR I' & HELEY II BREARLAK	75.20-2-58	2 SCRIDVEW AVE WHITE PLANS, HY 10008 MARKET BUFFORE SI COMPATRY OR NAMOPAC, NY 10541	75:20-1-5	JOSEPH G & JOHN G MACHOTTA BO BLOOMER ROAD MANDPAC, NY TOSKY CLIERT & LOS BARRISM. BS BLOOMER ROAD		
7515-1-48	MANDPAC, NY 10541 TINDRY CREAM IR RELLY MORAN BIASSINE CREAE MANSPAC, NY 10541	79.20-2-20	HODY I' & HELEN IN BREWARK 125 DARLIA DRINE WARDAC, NY 10541 FAMILY TRUST CRECCO	75.20-2-57		75.80-1-5	MAHOPAC, NY TOSAT		
75.35-1-47	MANDRAC, NY 16540 ES-ASTOR DENY: MANDRAC, NY 16540	70.20-2-21	FAMILY TRUST CRECCO 129 ORIGINA DRISE NANDPINC, TO TOSHI DEDSTRAND ATUL C	75.20-2-58	JANES & SANDIA MARNELI 32 COMPUTAT CR MARNEPAL, NY 10541 ANTIONALE ROSEANNÉ M. PERROZZA	75.30-2-10	ALEJANDRO MERLINO 90 BLODNET ROAD MANDPAC, NY 10541 STEPHON MRLÉN		
75.16-1-48	MANUPAC, RY 10549 JOSEPH & ROSEANN BRUSSO 69 ASTOR DAVE MANUFAC, RY 10546	75.20-2-22	DEDSTRALL ATUL O DECETABLE VARIOUNA 11 NOTTHOBALL MAY WHICPAC, NY 10511	75,20~2~99	30 COMENTRY OR MANCPAC, MY 10341	75.80-2-1	STEPHEN WILLEN 90 DAYELA DINYE MILHORAC, NY 10543 ANEMONT CHACH, & ENW COREN		
75,16~1~45	MANGPAC, NY 10541 MENARE, IN MARLINNE MCALE 13 ASTOR DRIVE MANGPAC, NY 10541		RICHARD & DEBRA RUSSO 15 NOTENIGHAN WAY WANDING, NY 10845	·210-1-08	GRECORY A WILLIAMS & MILTRED NARSHALL 28 COVENTRY CIR NAROPAC, NY 10541	75,17-1-36	ANDRONT CHACH & ERW COREN TOO DAMEA DRINT MANGREE, NY TOOM PARENT ESTATE PO BOX 200 WANGREE, NY TOOM		
76,16-1-44	WHICHE & ANNAME WASSES STATEMENT & ANNAME WASSES STATEMENT OF THE BANDPAC, NY 10541	70,20-2-23	ROW & DARLDIE LOVE CAFM 17 RETERICHASE WAY HANCPAC, NY 10541	75,20-2-60	KATHLEON BARRETT 26 CONSUMY OR MAHOPAC, NY 10343	76,17-1-28	MANDEA 7 & LEE M DOSSINS 108 BANGIR DRIVE MANDPAC, NY 10541		
	HANDPAC, NY 10541	75.20-2-24	KEVIN & CATALEN BROME 19 HOTTHOHAM WAY UMMEPAC, NY 10541				MAHOPAC, HY 10541		
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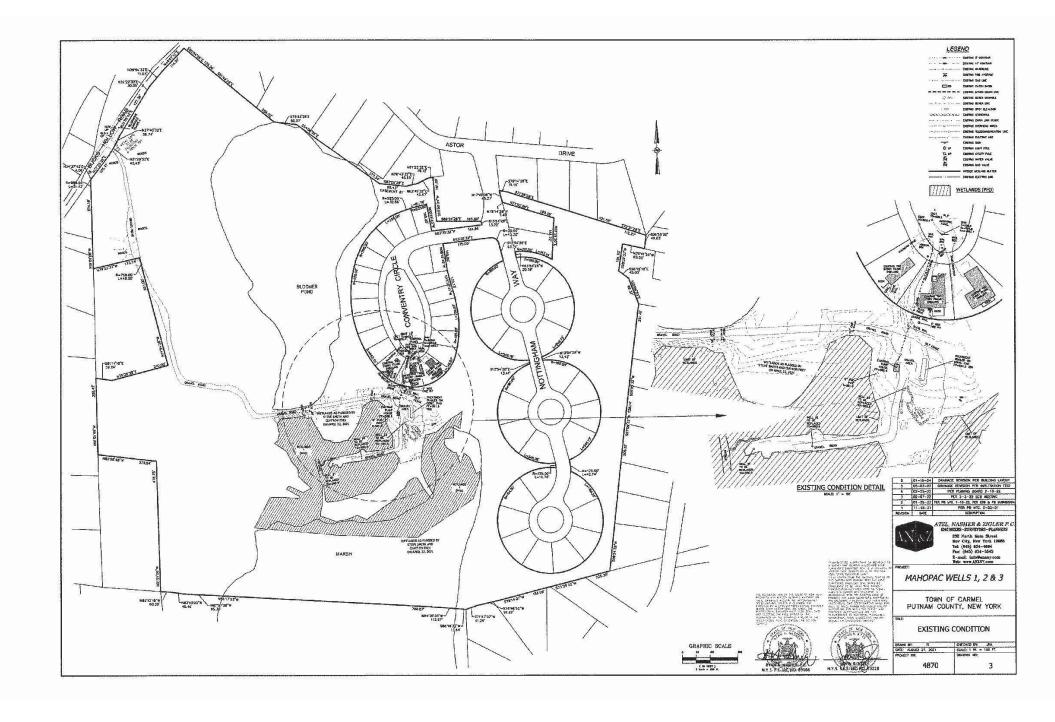


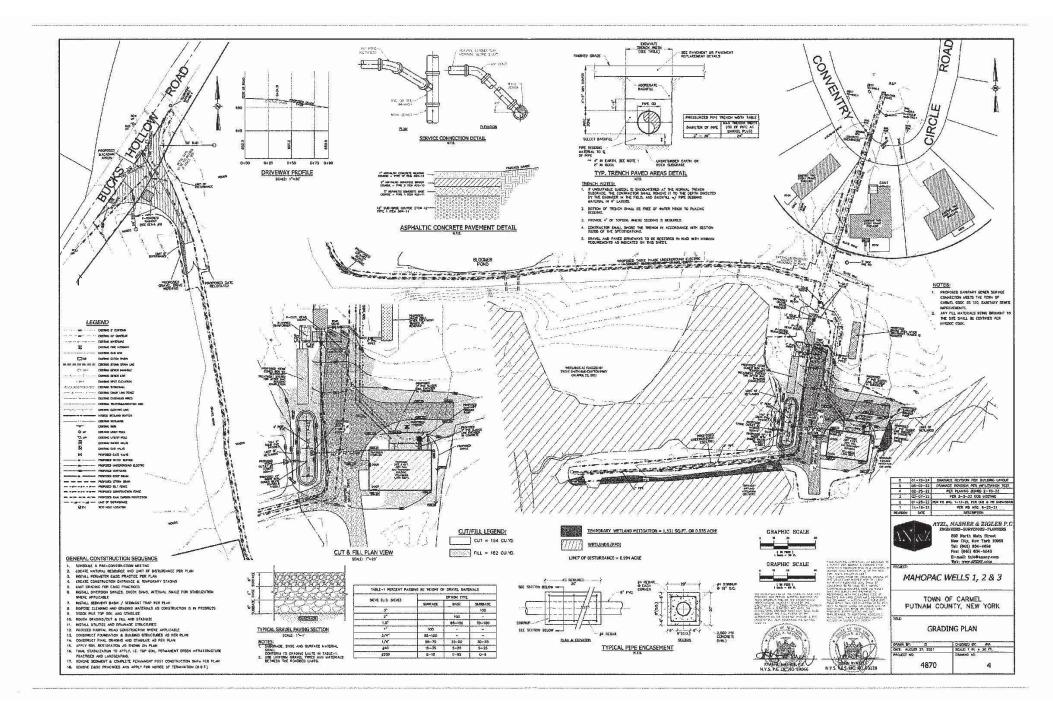
6	01-19-24	DRAMAGE REVISION PER BUILDING LAYOUT
3	05-07-72	DRAMAGE REVISION PER INFILTRATION FEST
4	02-25-22	PER FLANDIG BOARD 2-10-22
3	02-07-22	PER 2-3-22 ECB MEETING
2	01-25-22	PER PE NTC. 1-13-22, PER ECB & PE SUBMISSIO
- 1	11-TB-21	PER PB MIC. 9-22-21
REVISION	BUE	DESCRIPTION

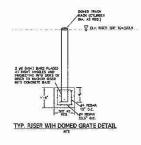
TOWN OF CARMEL PUTNAM COUNTY, NEW YORK

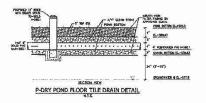
OWNERS WITHIN 500 FT. LIST

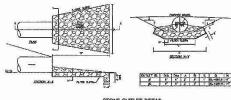
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DATE: AUGUST 27, 2021	SOUE: 1 N 100 FT
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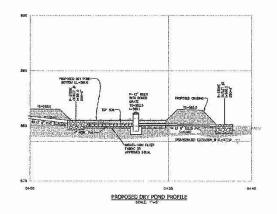








STONE OUTLET DETAIL



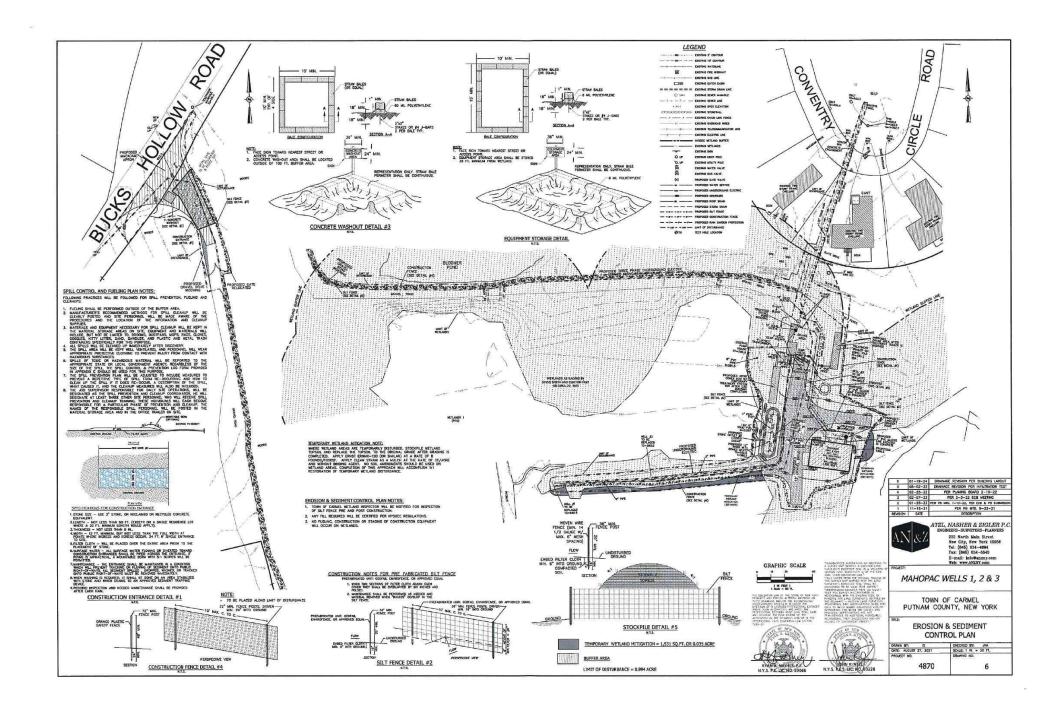


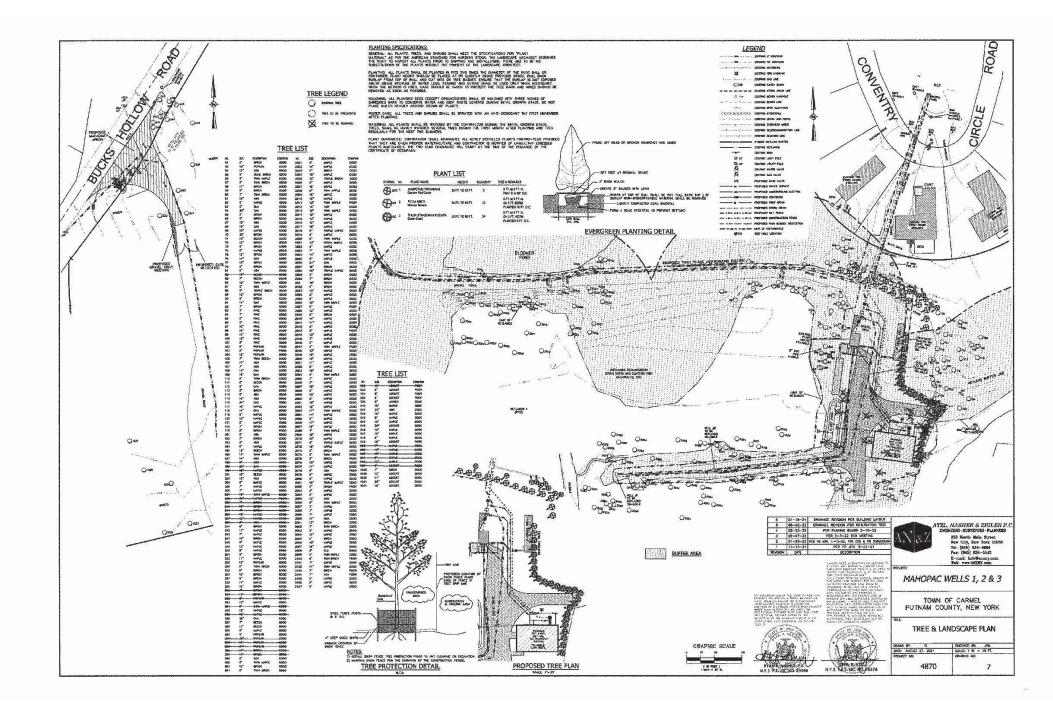
	01-19-24	DRAWAGE REVISION FER BUILDING LANDUT
5	05-02-22	DRUKAGE REVISION PER BUILTRATION TEXT
4	02-25-22	PER PLANNIG BOARD 2-10-22
3	02+07-27	PER 2-3-27 ECB MEETING
2	01-25-22	PER PB MIG. 1-13-23, PCR ECO & PB SUBMISS
1	11-15-21	PER PB NTG, 9-22-21
REVISION	BATE	DESCRIPTION
		ATZL, NASHER & EIGLER P.

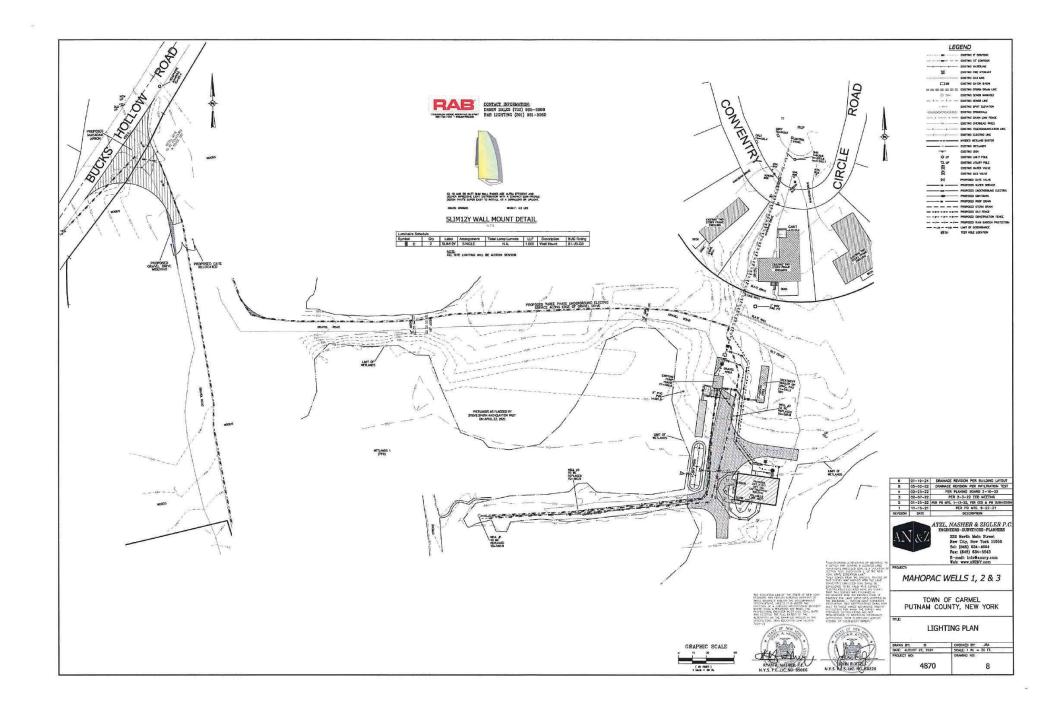
MAHOPAC WELLS 1, 2 & 3

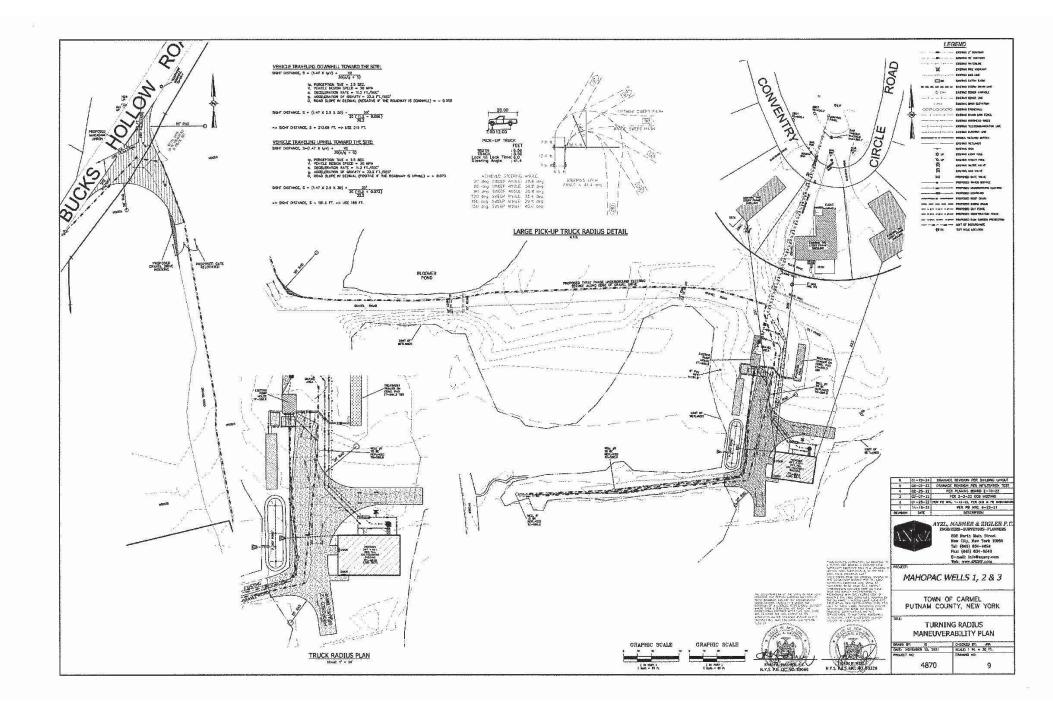
TOWN OF CARMEL PUTNAM COUNTY, NEW YORK

CRAIM BY: 19	CHECOLD IN: JRA
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PROJECT NO:	ORAMING MO:
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Section 2: Drainage

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

SECTION 2:

STORMWATER SYSTEM DESIGN REPORT COMPLYING WITH NYS STORMWATER MANAGEMENT DESIGN MANUAL JANUARY 2015

BY

ATZL, NASHER & ZIGLER

ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

> TEL: (845) 634-4694 FAX: (845) 634-5543 E-MAIL: rnasher@anzny.com



ATZL, NASHER & ZIGLER

ENGINEERS-SURVEYORS-PLANNERS

232 North Main Street, New City, NY 10956 Tel: (845) 634-4694 Fax: (845) 634-5543

Email: rnasher@anzny.com

Revision 3: January 19, 2024

Revision 2: May 02, 2022

Revision 1: September 30, 2021

August 27, 2021

Town of Carmel 60 McAlpin Avenue Mahopac, NY 10541

Att.: Richard Franzetti, PE, LEED

Town Engineer

Ref.: Mahopac Wells 1, 2, & 3 (Job #4870)

Town of Carmel

Putnam County, New York

Sub: Hydraulic and Hydrological Study

1.0 REVISION OVERVIEW:

The previous SWPPP report dated May 02, 2022, proposed a dry pond system to achieve zero net increase of peak runoff. However, the proposed building has been relocated towards the south of its original location. Therefore, the proposed dry pond system has been moved towards the south. We have revised the site plan and the drainage report. Regardless of the revision, the overall hydraulics of the SMP System remains the same.

1.1 INTRODUCTION:

The following hydraulic/hydrological study has been proposed for the above-mentioned project to provide zero net increase of peak runoff for the proposed project. The project disturbed area is 0.994 acres (43,300 sq.ft.), which is smaller than 1 acre. Therefore, a general construction permit is not required according to the NYSDEC 2015 version of the design manual. However, a zero-net increase of peak runoff is required per Town code.

1.2 SITE LOCATION:

The project is located at Bucks Hollow Road, $\pm 890 \ ft$ south of Astor Drive in the Town of Carmel, Putnam County, New York.

2.0 HYDROLOGICAL SOIL GROUP:

The soil onsite is the following, based on data from the Soil Survey of Putnam County, New York, dated October 1994.

Soil Name	Soil Map Symbol	Hydrological Soil Group
Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	CrC	В
Natchaug muck, 0 to 2 percent slopes	NcA	D
Sun loam	Sh	D

^{*} Source: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

3.1 EXISTING CONDITION:

The existing drainage area is 0.536 acres. The land cover of the drainage area consists of woods, gravel and grass area, plus some impervious area. The drainage area delineation is shown on the Existing Condition Drainage Map (E-1).

3.2 DEVELOPED CONDITION:

The proposed development includes the construction of a building and an increase in the gravel coverage. The peak runoff from the study area will be increased upon competition of the proposed development. The drainage area delineation is shown on the Developed Condition Drainage Map (D-1).

4.0 DRAINAGE STUDY:

Due to the proposed improvement the peak runoff of the designated drainage area will be increased. The hydrological software, HydroCAD has been used to calculate pre and post peak runoff rates for 1, 10, 100-year design storm events.

5.0 MITIGATION MEASURES:

To attenuate the post-developed peak flow to pre-developed peak flow, we are proposing a Dry Pond System. The Westchester Method was used to calculate the 10-year storm maximum storage.

The drainage study shows that the required 10-year storage for the site is 1,187.0 cu.ft. The Dry Pond System provides 1,234.0 cu.ft (@ELV= 582.50'), which is more than the required volume. The software HydroCAD was used to calculate peak flows for different storm events at

^{**} HSG "B & D" were used in the drainage calculation.

the outlet "Point of Interest", for the Existing and Developed Condition. The summary table for the peak flow of different storm frequencies (1, 10, & 100-year storms) at the point of interest (P.O.I.), and water quantity design calculations are attached for your reference.

If you have further questions or concerns, feel free to contact me. Thank you.

Very Truly Yours,



P:\STORMWATER MANAGEMENT\4870\CURRENT SWPPP REPORT\SECTION 2 - DRAINAGE\4870 DRAINAGE NARRATIVE.docx

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

SUMMARY TABLE

BY

ATZL, NASHER & ZIGLER ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

TEL: (845) 634-4694 FAX: (845) 634-5543 E-MAIL: rnasher@anzny.com ENGINEERS-SURVEYORS-PLANNERS 232 North Main Street

New City, NY 10956 Tel: (845) 634-4694 Fax: (845) 634-5543 Mahopac Wells 1, 2, & 3 (Job No. 4870)

CALCULATED BY: WS CHECKED BY: RN REVISED: 01/19/24 DATE: 08/27/21 DATE: 08/27/21

SUMMARY FLOW EXSITING AND DEVELOPED CONDITIONS 1, 10, & 100 YEAR STORMS PEAK RUNOFF

STORM FREQUENCY (YEAR)	EXISTING CONDITION PEAK FLOW (CFS) (PER HYDROCAD)	DEVELOPED CONDITION PEAK FLOW, NO ROUTING (CFS) (PER HYDROCAD)	CHANGE IN FLOW, ΔQ (CFS)	REMARK
1	0.16	0.39	+0.23	*
10	0.95	1.37	+0.42	*
100 2.81		3.40	+0.59	*

^{*} Note: Zero net increase of peak runoff will be achieved by the proposed Dry Pond System. The location of the system is shown on the site plan drawings.

Location Maps

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

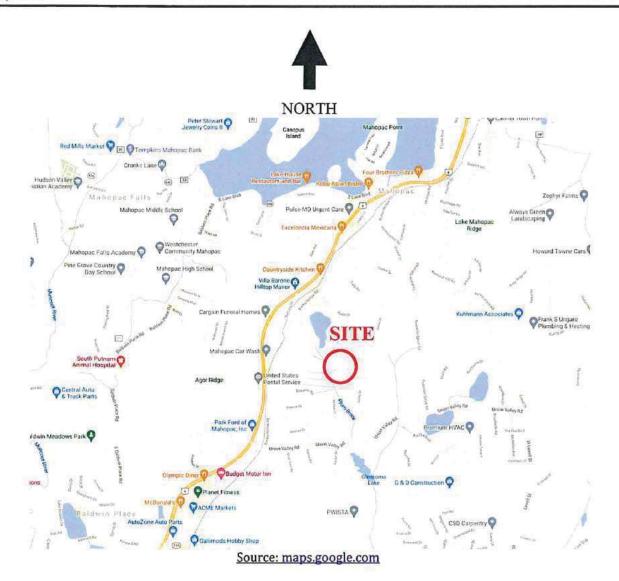
LOCATION MAPS

BY

ATZL, NASHER & ZIGLER ENGINEERS-SURVEYORS-PLANNERS

232 NORTH MAIN STREET NEW CITY, NY 10956

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STREET MAP

ATZL, NASHER & ZIGLER ENGINEERS-SURVEYORS-PLANNERS 232 North Main Street

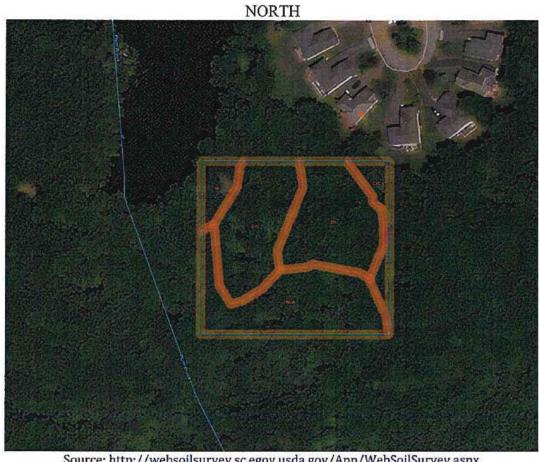
New City, NY 10956 Tel: (845) 634-4694 Fax: (845) 634-5543

Mahopac Wells 1, 2, & 3 (Job No. 4870)

CALCULATED BY: WS CHECKED BY: RN **REVISED: 01/19/24**

DATE: 08/27/21 DATE: 08/27/21





Source: http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

SOIL MAP

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

DRAINAGE CALCULATION

BY

ATZL, NASHER & ZIGLER ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

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Mahopac Wells 1, 2, & 3 (Job No. 4870) CALCULATED BY: WS CHECKED BY: RN REVISED: 01/19/24

DATE: 08/27/21 DATE: 08/27/21

EXISTING CONDITION:

The existing area of interest consists of one watershed (WS#1), with an area of about 0.536 acres. The site consists of woods/grass and gravel, plus some impervious areas. The drainage area is delineated on the Existing Condition Drainage Map (E-1).

WS#1E:

The soil within WS#1E belongs to Hydrological Soil Group "B".

Composition	HSG "B"
A _{Gravel} =	0.116 acres
Almpervious=	0.01 acres
Awood/Grass=	0.41 acres

Due to the small size of the watershed, the time of concentration is considered the minimum of 0.1 hours.

WS#1E \rightarrow P.O.I.#1

DEVELOPED CONDITION:

Upon development of the site, the total area of the developed watershed will remain the same as the existing watershed area (0.536 acres). The developed condition consists of the construction of a building and an increase in gravel coverage. The watershed area is delineated on the Developed Condition Drainage Map (D-1).

WS#1D:

The soil within WS#1D belongs to Hydrological Soil Group "B".

Composition	HSG "B"	
AGravel	0.194 acres	
Almpervious	0.048 acres	
Awood/Grass	0.294 acres	

Due to the small size of the watershed, the time of concentration is considered the minimum of 0.1 hours.

ROOFTOP \rightarrow DRY POND SYSTEM \rightarrow P.O.I.#1.

WS#1 \rightarrow P.O.I.#1.

Ŷ

MAHOPAC WELLS 1, 2, & 3

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

STORMWATER MANAGEMENT PRACTICE DESIGN CALCULATIONS

BY

ATZL, NASHER & ZIGLER

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Fax: (845) 634-5543

Mahopac Wells 1, 2, & 3 (Job No. 4879) CALCULATED BY: WS CHECKED BY: RN **REVISED: 01/19/24**

DATE: 08/27/21 DATE: 08/27/21

WATER QUANTITY CALCULATION WESTCHESTER METHOD

1. Select Design Storm

(Use 1-Year, 24-Hour Storm) Total Rainfall = 4.90 inches

2. Discount Additional Soil Percolation

Use Infiltration rate 0.00 inch/hr

3. Calculate The Storage Volume (Vs):

1-Year, 24-Hour Rainfall = 4.90 inches

Soil: Hydrologic Soil Group (HSG) is "B", see attached Soil Survey Map.

Existing CN (WS#1) = 65,
$$(Q_E)_1 = 0.95$$
 cfs (Hydrocad, attached)
Runoff depth = 1.59 inches

Proposed CN (WS#1) = 73,
$$(Q_D)_1 = 1.37$$
 cfs (Hydrocad, attached)
Runoff depth = 2.20 inches

Drainage Area = 23.349 ft^2

$$\Delta Vr = 2.20 \ in - 1.59 \ in = 0.61 \ in$$

$$\Delta Vr = 0.61 \ in * \frac{1 \ ft}{12 \ in}$$

$$\Delta Vr = 0.05\,ft$$

$$V_S = \Delta Vr * Area$$

$$V_S = 0.05 \, ft * 23,349 \, ft^2$$

$$V_S = 1,187.0 ft^3$$

The 1-year storm storage volume is 1, 187.0 ft^3

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Mahopac Wells 1, 2, & 3 (Job No. 4870) CALCULATED BY: WS CHECKED BY: RN

REVISED: 01/19/24

DATE: 08/27/21 DATE: 08/27/21

SMP SIZING CALCULATION

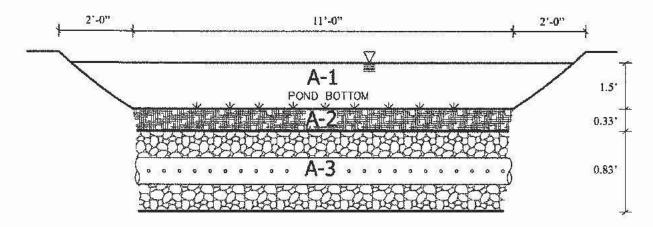
In order to provide zero net increase of peak runoff a dry pond system has been proposed. The storage is calculated as 1,187.0 cu.ft. for the entire WS#1.

Calculate Provided Storage Volume:

The Dry Pond has the following characteristics:

- 34" deep
- 12" of $\frac{3}{4}$ " gravel (porosity = 0.4) on bottom
- 4" of soil (porosity = 0.2) above the gravel
- 18" of freeboard between the top of the catch basin to the surface of the soil

A cross-sectional, not to scale sketch of the dry pond system is shown below:



DRY POND CROSS SECTION

Void space in the dry pond cross-section:

= A1 (Void area above-ground) + A2(Void area in planting soil) + A3(Void area in gravel)

$$= \left[(1.5') \left(\frac{1}{2} \right) (15.0' + 11.0') \right] + (0.2)(11.0')(0.33') + (0.4)(11.0')(0.83')$$

 $= 23.88 ft^2$

Required dry pond length (total):

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Mahopac Weils 1, 2, & 3 (Job No. 4870) CALCULATED BY: WS CHECKED BY: RN REVISED: 01/19/24

DATE: 08/27/21 DATE: 08/27/21

 $=\frac{1,187.0\,ft^3}{23.88\,ft^2}\,=49.7\,\,ft$

Use one (1) dry pond. Required length of the dry pond:

$$= 50.0 ft$$

Provided Storage:

$$= (50.0 ft)(24.0 ft^2) = 1,200.0 ft^3$$

Note: HydroCAD was used to calculate the actual storage provided by the proposed system.

The proposed Dry Pond will provide 1, 234.0 ft^3 (@ ELV= 582.50') > 1, 187.0 ft^3 OK√

(Please see HydroCAD for detailed calculations)

Hydro CAD Model

MAHOPAC WELLS 1, 2, & 3

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

HYDROCAD MODEL FOR EXISTING AND PROPOSED CONDITIONS 1, 10, AND 100 YEAR STORMS

BY

ATZL, NASHER & ZIGLER

ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

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E-MAIL: rnasher@anzny.com

EXISTING CONDITIONS

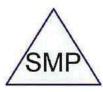
<u>DEVELOPED</u> CONDITIONS



EXISTING



DEVELOPED



P-DRY DETENTION BASIN









Routing Diagram for 4870 MAHOPAC WELLS 1, 2, & 3
Prepared by ATZL NASHER & ZIGLER, Printed 1/24/2024
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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment D-WS#1A: DEVELOPED

Runoff Area=0.536 ac 8.96% Impervious Runoff Depth=0.70" Tc=6.0 min CN=73 Runoff=0.39 cfs 0.031 af

Subcatchment E-WS#1: EXISTING

Runoff Area=0.536 ac 1.87% Impervious Runoff Depth=0.39" Tc=6.0 min CN=65 Runoff=0.16 cfs 0.017 af

Pond SMP: P-DRY DETENTION BASIN

Peak Elev=0.00' Storage=0 cf

Total Runoff Area = 1.072 ac Runoff Volume = 0.048 af Average Runoff Depth = 0.54" 94.59% Pervious = 1.014 ac 5.41% Impervious = 0.058 ac

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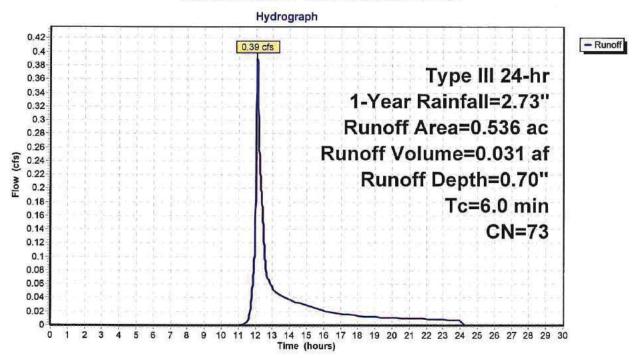
Summary for Subcatchment D-WS#1A: DEVELOPED

Runoff = 0.39 cfs @ 12.10 hrs, Volume= 0.031 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs Type III 24-hr 1-Year Rainfall=2.73"

_	Area (ac) CN Description							
	0.	194	85	Gra	vel roads, I	ISG B		
	0.	048	98	Pave	ed parking,	HSG B		
_	0.	294	61	>75	% Grass co	ver, Good,	HSG B	
	0.536 73 Weighted Average							
	0.	488		91.0	4% Pervio	us Area		
	0.	048		8.96	% Impervi	ous Area		
	Tc (min)	Lengt		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
	6.0						Direct Entry,	

Subcatchment D-WS#1A: DEVELOPED



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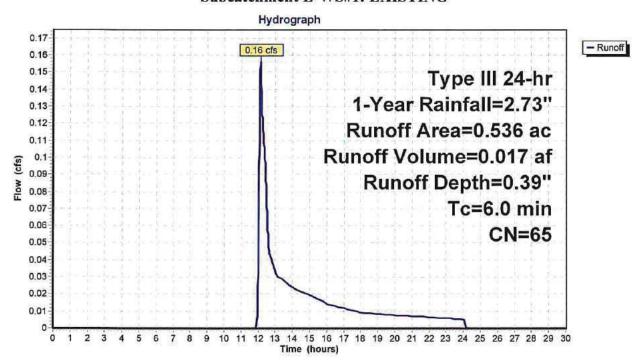
Summary for Subcatchment E-WS#1: EXISTING

Runoff = 0.16 cfs @ 12.12 hrs, Volume= 0.017 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs Type III 24-hr 1-Year Rainfall=2.73"

Area	(ac)	CN Description								
0.	116	85	Grav	vel roads, F	ISG B					
0.	.010	98	Pave	ed parking,	HSG B					
0.	410	58	Woo	ods/grass co	omb., Good	, HSG B				
0.	536	65	Wei	ghted Aver	age					
0.	526		98.1	98.13% Pervious Area						
0.	0.010			% Impervi	ous Area					
Tc (min)	Length (feet)		lope ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
6.0				7/		Direct Entry.				

Subcatchment E-WS#1: EXISTING



4870 MAHOPAC WELLS 1, 2, & 3
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Summary for Pond SMP: P-DRY DETENTION BASIN

Volume	Invert	Avail.Storage		Storage Description				
#1	579.831		1,602 cf	Custom Stage Data (Prismatic)Listed below (Recalc)				
Elevation (feet)		f.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)			
579.83	-	767	0.0	0	0			
580.67		767	40.0	258	258			
581.00		767	20.0	51	308			
581.01		527	100.0	6	315			
583.00		767	100.0	1,288	1,602			

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4870 MAHOPAC WELLS 1, 2, & 3
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Stage-Discharge for Pond SMP: P-DRY DETENTION BASIN

Elevation	Discharge	Elevation	Discharge	Elevation	Discharge
(feet)	(cfs)	(feet)	(cfs)	(feet)	(cfs)
579.83	0.00	580.89	0.00	581.95	0.00
579.85	0.00	580.91	0.00	581.97	0.00
579.87	0.00	580.93	0.00	581.99	0.00
579.89	0.00	580.95	0.00	582.01	0.00
579.91	0.00	580.97	0.00	582.03	0.00
579.93	0.00	580.99	0.00	582.05	0.00
579.95	0.00	581.01	0.00	582.07	0.00
579.97	0.00	581.03	0.00	582.09	0.00
579.99	0.00	581.05	0.00	582.11	0.00
580.01	0.00	581.07	0.00	582.13	0.00
580.03	0.00	581.09	0.00	582.15	0.00
580.05	0.00	581.11	0.00	582.17	0.00
580.07	0.00	581.13	0.00	582.17	0.00
580.09	0.00	581.15	0.00	582.21	0.00
580.11	0.00	581.17	0.00	582.23	0.00
580.13	0.00	581.19	0.00	582.25	0.00
580.15	0.00	581.21	0.00	582.27	0.00
580.17	0.00	581.23	0.00	582.29	
580.17	0.00	581.25	0.00	1	0.00
580.19	0.00			582.31	0.00
580.23	0.00	581.27 581.29	0.00	582.33	0.00
580.25	0.00	581.31	0.00	582.35	0.00
580.27	0.00		974/7576270	582.37	
580.27	0.00	581.33	0.00	582.39	0.00
580.29	0.00	581.35 581.37	1531-49303-533	582.41	0.00
580.33	0.00		0.00	582.43	0.00
580.35	0.00	581.39 581.41	0.00	582.45	0.00
580.37	0.00	581.43	0.00	582.47 582.49	0.00
580.39	0.00	581.45	0.00	582.51	0.00
580.41	0.00	581.47	0.00	582.53	0.00
580.43	0.00	581.49	0.00	582.55	0.00
580.45	0.00	581.51	0.00	582.57	0.00
580.47	0.00	581.53	0.00	582.59	0.00
580.49	0.00	581.55	0.00	582.61	0.00
580.51	0.00	581.57	0.00	582.63	0.00
580.53	0.00	581.59	0.00	582.65	0.00
580.55	0.00	581.61	0.00	582.67	0.00
580.57	0.00	581.63	0.00	582.69	0.00
580.59	0.00	581.65	0.00	582.71	0.00
580.61	0.00	581.67	0.00	582.73	0.00
580.63	0.00	581.69	0.00	582.75	0.00
580.65	0.00	581.71	0.00	582.77	0.00
580.67	0.00	581.73	0.00	582.79	0.00
580.69	0.00	581.75	0.00	582.81	0.00
580.71	0.00	581.77	0.00	582.83	0.00
580.73	0.00	581.79	0.00	582.85	0.00
580.75	0.00	581.81	0.00	582.87	0.00
580.77	0.00	581.83	0.00	582.89	0.00
580.79	0.00	581.85	0.00	582.91	0.00
580.79	0.00	581.87	0.00	582.93	0.00
580.83	0.00	581.89	0.00	582.95	0.00
580.85	0.00	581.91	0.00	582.97	0.00
580.87	0.00	581.91	0.00		0.00
200.07	0.00	701.73	0.00	582.99	0.00

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Stage-Area-Storage for Pond SMP: P-DRY DETENTION BASIN

Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
579.83	767	0	582.48	704	1,220
579.88	767	15	582.53	710	1,255
579.93	767	31	582.58	716	1,291
579.98	767	46	582.63	722	1,327
580.03	767	61	582.68	728	1,363
580.08	767	77	582.73	734	1,400
580.13	767	92	582.78	740	1,437
580.18	767	107	582.83	746	1,474
580.23	767	123	582.88	753	1,511
580.28	767	138	582.93	759	1,549
580.33	767	153	582.98	765	1,587
580.38	767	169			
580.43	767	184			
580.48	767	199			
580.53	767	215			
580.58	767	230			
580.63	767	245			
580.68	767	259			
580.73	767	267			
580.78	767	275			
580.83	767	282			
580.88	767	290			
580.93	767	298			
580.98	767	305			
581.03	529	325			
581.08	535	352			
581.13	541	379			
581.18	548	406			
581.23	554	434			
581.28	560	461			
581.33	566	490			
581.38	572	518			
581.43	578	547			
581.48	584	576			
581.53	590	605			
581.58	596	635			
581.63	602	665			
581.68	608	695			
581.73	614	726			
581.78	620	756			
581.83	626	787			
581.88	632	819			
581.93	638	851			
581.98	644	883			
582.03	650	915			
582.08	656	948			
582.13	662	981			
582.18	668	1,014			
582.23	674	1,047			
582.28	680	1,081			
582.33	686	1,116			
582.38	692	1,150			
502.30	600	1,150			

1,185

582.43

698

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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment D-WS#1A: DEVELOPED Runoff Area=0.536 ac 8.96% Impervious Runoff Depth=2.20"

Tc=6.0 min CN=73 Runoff=1.37 cfs 0.098 af

Subcatchment E-WS#1: EXISTING Runoff Area=0.536 ac 1.87% Impervious Runoff Depth=1.59"

Tc=6.0 min CN=65 Runoff=0.95 cfs 0.071 af

Pond SMP: P-DRY DETENTIONBASIN Peak Elev=0.00' Storage=0 cf

Total Runoff Area = 1.072 ac Runoff Volume = 0.169 af Average Runoff Depth = 1.89" 94.59% Pervious = 1.014 ac 5.41% Impervious = 0.058 ac HydroCAD® 10.00-20 s/n 03403 © 2017 HydroCAD Software Solutions LLC

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Summary for Subcatchment D-WS#1A: DEVELOPED

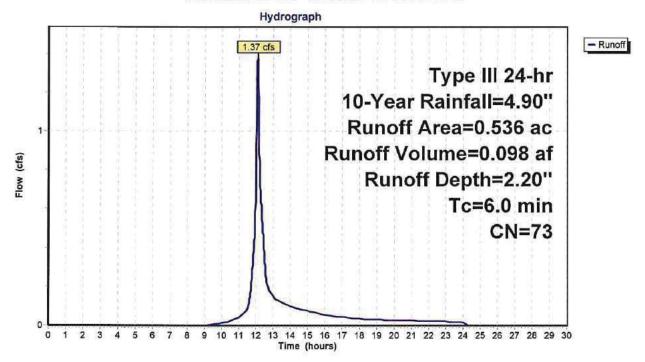
Runoff = 1.37 cfs @ 12.09 hrs, Volume=

0.098 af, Depth= 2.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs Type III 24-hr 10-Year Rainfall=4.90"

Area	(ac)	CN	Des	cription			
0.	.194	85	Gra	vel roads, I	ISG B		
0.	.048						
0.	.294	61	>75	% Grass co	HSG B		
0.	536	73	Wei	ghted Aver	age	J	
0.	488		91.0	4% Pervio	us Area		
0.	.048		8.96	% Impervi	ous Area		
Tc (min)	Lengt (feet		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
6.0						Direct Entry.	

Subcatchment D-WS#1A: DEVELOPED



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Summary for Subcatchment E-WS#1: EXISTING

Runoff = 0.95 cfs @ 12.10 hrs, Volume=

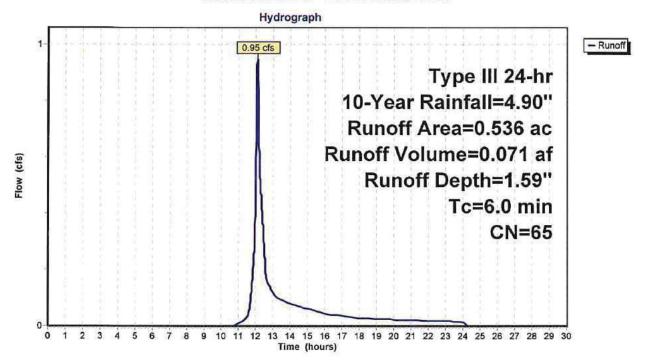
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0.071 af, Depth= 1.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs Type III 24-hr 10-Year Rainfall=4.90"

Area	(ac)	CN	Desc	cription			
0.	116	85	Grav	vel roads, F	ISG B		
0.	010	98	Pave	ed parking,	HSG B		
0.	410	58	Woo	ds/grass co	omb., Good	, HSG B	
0.	536	65	Wei	ghted Aver	rage		-
0.	0.526			3% Pervio	us Area		
0.	010		1.87	% Impervi	ous Area		
Tc (min)	Lengtl (feet		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
6.0						Direct Entry,	

Subcatchment E-WS#1: EXISTING



4870 MAHOPAC WELLS 1, 2, & 3
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Summary for Pond SMP: P-DRY DETENTION BASIN

Volume	Invert	Avail.Storage		Storage Description Custom Stage Data (Prismatic)Listed below (Recalc)				
#1	579.83'		1,602 cf					
Elevation (feet)		:Area sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)			
579.83		767	0.0	0	0			
580.67		767	40.0	258	258			
581.00		767	20.0	51	308			
581.01		527	100.0	6	315			
583.00		767	100.0	1,288	1,602			

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Stage-Discharge for Pond SMP: P-DRY DETENTION BASIN

Elevation	Discharge	Elevation	Discharge	Elevation	Discharge
(feet)	(cfs)	(feet)	(cfs)	(feet)	(cfs)
579.83	0.00	580.89	0.00	581.95	0.00
579.85	0.00	580.91	0.00	581.97	0.00
579.87	0.00	580.93	0.00	581.99	0.00
579.89	0.00	580.95	0.00	582.01	0.00
579.91	0.00	580.97	0.00	582.03	0.00
579.93	0.00	580.99	0.00	582.05	0.00
579.95	0.00	581.01	0.00	582.07	0.00
579.97	0.00	581.03	0.00	582.09	0.00
579.99	0.00	581.05	0.00	582.11	0.00
580.01	0.00	581.07	0.00	582.13	0.00
580.03	0.00	581.09	0.00	582.15	0.00
580.05	0.00	581.11	0.00	582.17	0.00
580.07	0.00	581.13	0.00	582.19	0.00
580.09	0.00	581.15	0.00	582.21	0.00
580.11	0.00	581.17	0.00	582.23	0.00
580.13	0.00	581.19	0.00	582.25	0.00
580.15	0.00	581.21	0.00	582.27	0.00
580.17	0.00	581.23	0.00	582.29	0.00
580.19	0.00	581.25	0.00	582.31	0.00
580.21	0.00	581.27	0.00	582.33	0.00
580.23	0.00	581.29	0.00	582.35	0.00
580.25	0.00	581.31	0.00	582.37	0.00
580.27	0.00	581.33	0.00	582.39	0.00
580.29	0.00	581.35	0.00	582.41	0.00
580.31	0.00	581.37	0.00	582.43	0.00
580.33	0.00	581.39	0.00	582.45	0.00
580.35	0.00	581.41	0.00	582.47	0.00
580.37	0.00	581.43	0.00	582.49	0.00
580.39	0.00	581.45	0.00	582.51	0.00
580.41	0.00	581.47	0.00	582.53	0.00
580.43	0.00	581.49	0.00	582.55	0.00
580.45	0.00	581.51	0.00	582.57	0.00
580.47	0.00	581.53	0.00	582.59	0.00
580.49	0.00	581.55	0.00	582.61	0.00
580.51	0.00	581.57	0.00	582.63	0.00
580.53	0.00	581.59	0.00	582.65	0.00
580.55	0.00	581.61	0.00	582.67	0.00
580.57	0.00	581.63	0.00	582.69	0.00
580.59	0.00	581.65	0.00	582.71	0.00
580.61	0.00	581.67	0.00	582.73	0.00
580.63	0.00	581.69	0.00	582.75	0.00
580.65	0.00	581.71	0.00	582.77	0.00
580.67	0.00	581.73	0.00	582.79	0.00
580.69	0.00	581.75	0.00	582.81	0.00
580.71	0.00	581.77	0.00	582.83	0.00
580.73	0.00	581.79	0.00	582.85	0.00
580.75	0.00	581.81	0.00	582.87	0.00
580.77	0.00	581.83	0.00	582.89	0.00
580.79	0.00	581.85	0.00	582.91	0.00
580.81	0.00	581.87	0.00	582.93	0.00
580.83	0.00	581.89	0.00	582.95	0.00
580.85	0.00	581.91	0.00	582.97	0.00
580.87	0.00	581.93	0.00	582.99	0.00

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Stage-Area-Storage for Pond SMP: P-DRY DETENTION BASIN

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
579.83	767	(cuote-teet)	582.48	704	1,220
579.88	767	15	582.53	710	1,255
579.93	767	31	582.58	716	1,291
579.98	767 767		\$1575364 GTV 2573649U i	722	
580.03	767	46 61	582.63 582.68	728	1,327 1,363
580.08	767	77	2012/04/04/04/05/05/05	734	
580.13	767	92	582.73	740	1,400
580.18	767		582.78	746	1,437
580.23	767	107 123	582.83 582.88	753	1,474
580.28	767	138	582.93	759	1,511 1,549
580.33	767	153	582.98	765	
580.33	767	169	362.98	703	1,587
580.43	767	184			
580.48	767	199			
580.53	767				
580.58	767	215 230			
580.63	767	245			
580.68	767	259			
580.73	767	267			
580.78	767	275			
580.83	767	282			
580.88	767	290	o		
580.93	767	298			
580.98	767	305			
581.03	529	325			
581.08	535	352			
581.13	541	379			
581.18	548	406			
581.23	554	434			
581.28	560	461			
581.33	566	490			
581.38	572	518			
581.43	578	547			
581.48	584	576			
581.53	590	605			
581.58	596	635			
581.63	602	665			
581.68	608	695			
581.73	614	726	\$		
581.78	620	756			
581.83	626	787			
581.88	632	819			
581.93	638	851			
581.98	644	883			
582.03	650	915			
582.08	656	948			
582.13	662	981			
582.18	668	1,014			
582.23	674	1,047			
582.28	680	1,081			
582.33	686	1,116			
582.38	692	1,150			
582.43	698	1,185			
J46.TJ	020	1,102			

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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment D-WS#1A: DEVELOPED

Runoff Area=0.536 ac 8.96% Impervious Runoff Depth=5.43"

Tc=6.0 min CN=73 Runoff=3.40 cfs 0.243 af

SubcatchmentE-WS#1: EXISTING

Runoff Area=0.536 ac 1.87% Impervious Runoff Depth=4.47"

Tc=6.0 min CN=65 Runoff=2.81 cfs 0.200 af

Pond SMP: P-DRY DETENTION BASIN

Peak Elev=0.00' Storage=0 cf

Total Runoff Area = 1.072 ac Runoff Volume = 0.442 af Average Runoff Depth = 4.95" 94.59% Pervious = 1.014 ac 5.41% Impervious = 0.058 ac HydroCAD® 10.00-20 s/n 03403 © 2017 HydroCAD Software Solutions LLC

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Summary for Subcatchment D-WS#1A: DEVELOPED

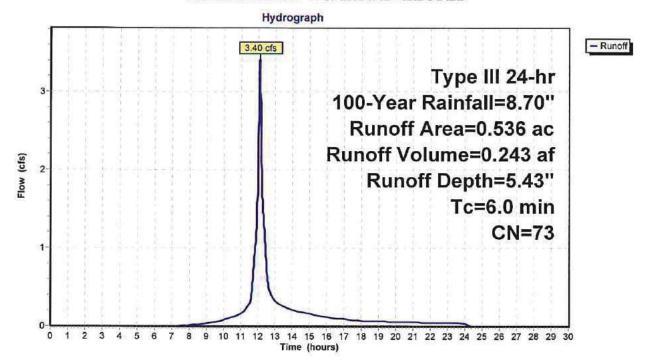
Runoff = 3.40 cfs @ 12.09 hrs, Volume=

0.243 af, Depth= 5.43"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs Type III 24-hr 100-Year Rainfall=8.70"

Area	(ac)	CN	Desc	cription			
0.	194	85	Grav	vel roads, F	ISG B		
0.	048	98	Pave	ed parking,	HSG B		
0.	294	61	>759	% Grass co	ver, Good,	HSG B	
0.	536	73	Wei	ghted Aver	age		
0.	488		91.04% Pervious Are		us Area		
0.	048		8.96	% Impervi	ous Area		
Tc (min)	Length (feet)		lope ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
6.0						Direct Entry,	

Subcatchment D-WS#1A: DEVELOPED



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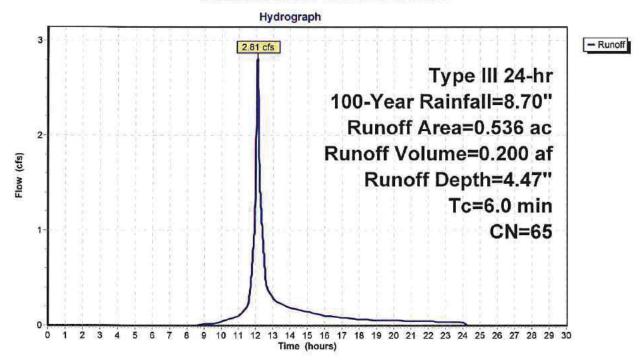
Summary for Subcatchment E-WS#1: EXISTING

Runoff = 2.81 cfs @ 12.09 hrs, Volume= 0.200 af, Depth= 4.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs Type III 24-hr 100-Year Rainfall=8.70"

Area	(ac)	CN	Des	cription							
0.	116	85	Grav	vel roads, H	ISG B						
0.	.010	98	8 Paved parking, HSG B								
0.	410	58	Woo	ds/grass co	omb., Good	, HSG B					
0.	536	65	Wei	ghted Aver	age						
0.	0.526 98.13% Pervious Area				us Area						
0.	010		1.87	% Impervi	ous Area						
Tc (min)	Lengtl (feet		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
6.0						Direct Entry.					

Subcatchment E-WS#1: EXISTING



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Summary for Pond SMP: P-DRY DETENTION BASIN

Volume	Invert	Ava	il.Storage	Storage Descript	tion	
#1	579.83'	50	1,602 cf	Custom Stage I	Data (Prismatic)	Listed below (Recalc)
Elevation (feet)		f.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	
579.83		767	0.0	0	0	
580.67		767	40.0	258	258	
581.00		767	20.0	51	308	
581.01		527	100.0	6	315	
583.00		767	100.0	1,288	1,602	

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Stage-Discharge for Pond SMP: P-DRY DETENTION BASIN

Elevation	Discharge	Elevation	Discharge	Elevation	Discharge
(feet)	(cfs)	(feet)	(cfs)	(feet)	(cfs)
579.83	0.00	580.89	0.00	581.95	0.00
579.85	0.00	580.91	0.00	581.97	0.00
579.87	0.00	580.93	0.00	581.99	0.00
579.89	0.00	580.95	0.00	582.01	0.00
579.91	0.00	580.97	0.00	582.03	0.00
579.93	0.00	580.99	0.00	582.05	0.00
579.95	0.00	581.01	0.00	582.07	0.00
579.97	0.00	581.03	0.00	582,09	0.00
579.99	0.00	581.05	0.00	582.11	0.00
580.01	0.00	581.07	0.00	582.13	0.00
580.03	0.00	581.09	0.00	582.15	0.00
580.05	0.00	581.11	0.00	582.17	0.00
580.07	0.00	581.13	0.00	582.19	0.00
580.09	0.00	581.15	0.00	582.21	0.00
580.11	0.00	581.17	0.00	582.23	0.00
580.13	0.00	581.19	0.00	582.25	0.00
580.15	0.00	581.21	0.00	582.27	0.00
580.17	0.00	581.23	0.00	582.29	0.00
580.19	0.00	581.25	0.00	582.31	0.00
580.21	0.00	581.27	0.00	582.33	0.00
580.23	0.00	581.29	0.00	582.35	0.00
580.25	0.00	581.31	0.00	582.37	0.00
580.27	0.00	581.33	0.00	582.39	0.00
580.29	0.00	581.35	0.00	582.41	0.00
580.31	0.00	581.37	0.00	582.43	0.00
580.33	0.00	581.39	0.00	582.45	0.00
580.35	0.00	581.41	0.00	582.47	0.00
580.37	0.00	581.43	0.00	582.49	0.00
580.39	0.00	581.45	0.00	582,51	0.00
580.41	0.00	581.47	0.00	582.53	0.00
580.43	0.00	581.49	0.00	582.55	0.00
580.45	0.00	581.51	0.00	582.57	0.00
580.47	0.00	581.53	0.00	582.59	0.00
580.49	0.00	581.55	0.00	582.61	0.00
580.51	0.00	581.57	0.00	582.63	0.00
580.53	0.00	581.59	0.00	582.65	0.00
580.55	0.00	581.61	0.00	582.67	0.00
580.57	0.00	581.63	0.00	582.69	0.00
580.59	0.00	581.65	0.00	582.71	0.00
580.61	0.00	581.67	0.00	582.73	0.00
580.63	0.00	581.69	0.00	582.75	0.00
580.65	0.00	581.71	0.00	582.77	0.00
580.67	0.00	581.73	0.00	582.79	0.00
580.69	0.00	581.75	0.00	582.81	0.00
580.71	0.00	581.77	0.00	582.83	0.00
580.73	0.00	581.79	0.00	582.85	0.00
580.75	0.00	581.81	0.00	582.87	0.00
580.77	0.00	581.83	0.00	582.89	0.00
580.79	0.00	581.85	0.00	582.91	0.00
580.81	0.00	581.87	0.00	582.93	0.00
580.83	0.00	581.89	0.00	582.95	0.00
580.85	0.00	581.91	0.00	582.97	0.00
580.87	0.00	581.93	0.00	582.99	0.00

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Stage-Area-Storage for Pond SMP: P-DRY DETENTION BASIN

Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
579.83	767	0	582.48	704	1,220
579.88	767	15	582.53	710	1,255
579.93	767	31	582.58	716	1,291
579.98	767	46	582.63	722	1,327
580.03	767	61	582.68	728	1,363
580.08	767	77	582.73	734	1,400
580.13	767	92	582.78	740	1,437
580.18	767	107	582.83	746	1,474
580.23	767	123	582.88	753	1,511
580.28	767	138	582.93	759	1,549
580.33	767	153	582.98	765	1,587
580.38	767	169			
580.43	767	184			
580.48	767	199			
580.53	767	215			
580.58	767	230			
580.63	767	245	J		
580.68	767	259			
580.73	767	267			
580.78	767	275	}		
580.83	767	282			
580.88	767	290			
580.93	767	298			
580.98	767	305			
581.03	529	325			
581.08	535	352			
581.13	541	379	Ĭ		
581.18	548	406			
581.23	554	434			
581.28	560	461			
581.33	566	490			
581.38	572 578	518			
581.43	578	547	ļ		
581.48	584	576			
581.53	590	605			
581.58	596	635			
581.63 581.68	602 608	665			
581.73		695			
	614	726			
581.78 581.83	620 626	756 787			
581.88	632	819			
581.93	638	851			
581.98	644				
582.03	650	883	ļ		
582.08	656	915 948			
582.13	662				
582.18	668	981			
582.23	674	1,014			
582.28	680	1,047			
582.33	686	1,081			
582.38	692	1,116			
582.43	698	1,150			
302.43	078	1,185			

MAHOPAC WELLS 1, 2, & 3

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

SECTION 3:

SPDES ACKNOWLEDGEMENT LETTER, FILLED OUT NOTICE OF INTENT (N.O.I.), AND MS4 SWPPP ACCEPTANCE FORM

BY

ATZL, NASHER & ZIGLER

ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

TEL: (845) 634-4694 FAX: (845) 634-5543

E-MAIL: rnasher@anzny.com

NOTICE OF INTENT



New York State Department of Environmental Conservation Division of Water

625 Broadway, 4th Floor Albany, New York 12233-3505

NYR					
	/for	DEC	1150	only	15

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-20-001 All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

-IMPORTANTRETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

	W TU					nit.						Ow	ne	r/(Ope	era	to	or :	Inf	or	mat	io	n						W.		W.	ř.	- N	
Owne:	1/0	per	ato	r	(Cc	mp	any	/ N	lam	e/I	ri	vat	e	ON	me	rl	Na	me/	Mu	nio	cip	al:	ity	N	am	e)								
SU		Z	W				R			Ε	W		Y		R		,		T	N	C						9							
Owner	1/0	per	ato	r	con	ita	ct	Pe	ers	on	La	st	Na	ame	. (NO'	Г	CON	ISU:	LTA	ANT)												
The second		A I																																
Owner	1/0	per	ato	r	Con	ita	ct	Pe	rs	on	Fi	rst	- 1	Van	ie		1											I						
ST	E	V	EN									(- 7										
Owner	1/0	per	ato	rN	lai	liı	ng	Ac	ldr	ess																								N Y
1 6	3	(DI	D		М	I	L	L		R	0	A	D																				
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Phone 8 4			er/	T	ra]-	to:	3	1	9				Fa	x	(Ov	vne	r	′0p	era	to	r)													
Email	. ((Own	er/	Ope	ra	tor	-)					_			103																			
ST	E	V	E N		G	A	R	A	В	E	D	@	S	U	E	Z		C	0	M														
						1																	T	T							I			
FED T	FED TAX ID																																	
	(not required for individuals)																																	
(

Project Site Information	1
Project/Site Name	
MAHOPAC WELLS 1,2,&3	
Street Address (NOT P.O. BOX)	
BUCKSHOLLOW ROAD	
Side of Street	
○ North ○ South ● East ○ West	
City/Town/Village (THAT ISSUES BUILDING PERMIT)	
TOWN OF CARMEL	
State Zip County DEC Region	£
NY 10541- PUTNAM 3	
Name of Nearest Cross Street	ķ.,
ASTORDRIVE	
	978 Str. 10
Distance to Nearest Cross Street (Feet) Project In Relation to Cross Street	t
8 9 0 O North South O East O West	
Tax Map Numbers Section-Block-Parcel Tax Map Numbers	2.4
75.20-2-68	

 Provide the Geographic Coordinates for the project site. To do this, go to the NYSDEC Stormwater Interactive Map on the DEC website at:

https://gisservices.dec.ny.gov/gis/stormwater/

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located the centroid of your project site, go to the bottom right hand corner of the map for the X, Y coordinates. Enter the coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting)
-7 3 7 4 0
Ex. -73,749

Y C	COOL	dina	ates	(No:	(Northing					
4	1	3	6	0						
Eκ.	42	652		5 6	- 10 11					

- 2. What is the nature of this construction project?
 - O New Construction
 - Redevelopment with increase in impervious area
 - O Redevelopment with no increase in impervious area

4107089829	
3. Select the predominant land use for SELECT ONLY ONE CHOICE FOR EACH	both pre and post development conditions.
Pre-Development	Post-Development
Existing Land Use O FOREST	O SINGLE FAMILY HOME Number of Lots
O PASTURE/OPEN LAND	O SINGLE FAMILY HOME Number of Lots
O CULTIVATED LAND	O TOWN HOME RESIDENTIAL
O SINGLE FAMILY HOME	O MULTIFAMILY RESIDENTIAL
O SINGLE FAMILY SUBDIVISION	
O TOWN HOME RESIDENTIAL	O INSTITUTIONAL/SCHOOL
O MULTIFAMILY RESIDENTIAL	O INDUSTRIAL
O INSTITUTIONAL/SCHOOL	O COMMERCIAL
O INDUSTRIAL	O MUNICIPAL
O COMMERCIAL	O ROAD/HIGHWAY
O ROAD/HIGHWAY	O RECREATIONAL/SPORTS FIELD
O RECREATIONAL/SPORTS FIELD	O BIKE PATH/TRAIL
O BIKE PATH/TRAIL	O LINEAR UTILITY (water, sewer, gas, etc.)
O LINEAR UTILITY	O PARKING LOT
O PARKING LOT	O CLEARING/GRADING ONLY O DEMOLITION, NO REDEVELOPMENT
• OTHER	O WELL DRILLING ACTIVITY * (Oil, Gas, etc.)
WATER FACILITY	• OTHER
	WATER FACILITY
*Note: for gas well drilling, non-high	volume hydraulic fractured wells only
4. In accordance with the larger common enter the total project site area; to existing impervious area to be distu- activities); and the future impervious disturbed area. (Round to the neares	the total area to be disturbed; arbed (for redevelopment bus area constructed within the st tenth of an acre.)
Total Site Total Area To Be Disturbed 0 9	Existing Impervious Area Within Area To Be Disturbed Disturbed Area 0.1 0.2
5. Do you plan to disturb more than 5 a	acres of soil at any one time? O Yes • No
6. Indicate the percentage of each Hydrony A B 100%	cologic Soil Group(HSG) at the site. C D %
7. Is this a phased project?	O Yes ● No
8. Enter the planned start and end	tart Date 0 3 / 0 4 / 2 0 2 4 - 0 3 / 0 7 / 2 0 2 5

9 Identify the nearest surface waterhedulies) to which	on gite minefe
 Identify the nearest surface waterbody(ies) to which construction discharge. 	w sice randi ATT
Name	
PLUM BROOK	
9a. Type of waterbody identified in Question 9?	
O Wetland / State Jurisdiction On Site (Answer 9b)	
O Wetland / State Jurisdiction Off Site	
O Wetland / Federal Jurisdiction On Site (Answer 9b)	
O Wetland / Federal Jurisdiction Off Site	
O Stream / Creek On Site	
O Stream / Creek Off Site	
River On Site	
O River Off Site	tland identified?
O Lake On Site O Regulatory Map	
O Lake Off Site Delineated by	
	Army Corps of Engineers
	Volume of the resemble of the second state of the second s
O Other Type Off Site O Other (identif	y) :
10. Has the surface waterbody(ies) in question 9 been identified 303(d) segment in Appendix E of GP-0-20-001?	as a 🔾 Yes 📦 No
11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001?	n Yes O No
12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? If no, skip question 13.	O Yes • No
13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? If Yes, what is the acreage to be disturbed?	O Yes 🌘 No
14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent	• Yes O No

15.	Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)?	Unknown
16.	What is the name of the municipality/entity that owns the separate storm system?	sewer
TO	WN OF CARMEL	
17,	Does any runoff from the site enter a sewer classified Oxes No O as a Combined Sewer?	Unknown
18.	Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law?	s 🗣 No
19.	Is this property owned by a state authority, state agency, federal government or local government?	s 🌘 No
20.	Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.)	s) No
21.	Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS • Ye Standards and Specifications for Erosion and Sediment Control (aka Blue Book)?	s ONo
22.	Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? If No, skip questions 23 and 27-39.	s • No
23.	Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS OYe Stormwater Management Design Manual?	s ONo

02	51	ne	00	25

O Soil and Water Conservation District (SWCD) O Registered Landscape Architect (R.L.A) O Certified Professional in Erosion and Sediment Control (CPESC) O Owner/Operator O Cther SWFPF Preparer A T Z L , N A S H E R & Z I G L E R Contact Name (Last, Space, First) N A S H E R , R Y A N , A . Mailing Address 2 3 2 N O R T H M A I N S T R E E T N E W C I T Y Phone 8 4 5 - 6 3 4 - 4 6 9 4 Email R N A S H E R @ A N Z N Y . C O M SWFPF Preparer Certification	24. The Stormwater Pollution Prevention Plan (SWPF Professional Engineer (P.E.)	PP) was prepared by:
O Certified Professional in Erosion and Sediment Control (CPESC) O Owner/Operator O Other SWPPP Preparer A T Z L , NASHER & Z I G L E R Contact Name (Last, Space, First) NASHER, RYAN, A. Mailing Address 2 3 2 NORTH MAIN STREET City NEW C I T Y NEW C I T Y State Zip NY 1 0 9 5 6 -	O Soil and Water Conservation District (SWCD)	
O Other SWPPP Preparer A T Z L , N A S H E R & Z I G L E R Contact Name (Last, Space, First) N A S H E R , R Y A N , A . Mailing Address 2 3 2 N O R T H M A I N S T R E E T City N E W C I T Y State Zip N Y 1 0 9 5 6 - Phone 8 4 5 - 6 3 4 - 4 6 9 4 Email R N A S H E R @ A N Z N Y . C O M	O Registered Landscape Architect (R.L.A)	* 9
O Other SWPPP Preparer A T Z L , N A S H E R & Z I G L E R Contact Name (Last, Space, First) N A S H E R , R Y A N , A . Mailing Address 2 3 2 N O R T H M A I N S T R E E T City N E W C I T Y State Zip N Y 1 0 9 5 6 - Phone 8 4 5 - 6 3 4 - 4 6 9 4 Email R N A S H E R @ A N Z N Y . C O M	O Certified Professional in Erosion and Sediment (Control (CPESC)
SWPPP Preparer A T Z L , N A S H E R & Z I G L E R Contact Name (Last, Space, First) N A S H E R , R Y A N , A . Mailing Address 2 3 2 N O R T H M A I N S T R E E T City N E W C I T Y State Zip N Y 1 0 9 5 6 - Phone 8 4 5 - 6 3 4 - 4 6 9 4 Email R N A S H E R @ A N Z N Y . C O M	O Owner/Operator	
A T Z L , N A S H E R & Z I G L E R Contact Name (Last, Space, First) N A S H E R , R Y A N , A . Mailing Address 2 3 2 N O R T H M A I N S T R E E T City N E W C I T Y State Zip N Y 1 0 9 5 6 - Phone 8 4 5 - 6 3 4 - 4 6 9 4 Email R N A S H E R @ A N Z N Y . C O M	Other	10 A RELATION
A T Z L , N A S H E R & Z I G L E R Contact Name (Last, Space, First) N A S H E R , R Y A N , A . Mailing Address 2 3 2 N O R T H M A I N S T R E E T City N E W C I T Y State Zip N Y 1 0 9 5 6 - Phone 8 4 5 - 6 3 4 - 4 6 9 4 Email R N A S H E R @ A N Z N Y . C O M		
A T Z L , N A S H E R & Z I G L E R Contact Name (Last, Space, First) N A S H E R , R Y A N , A . Mailing Address 2 3 2 N O R T H M A I N S T R E E T City N E W C I T Y State Zip N Y 1 0 9 5 6 - Phone 8 4 5 - 6 3 4 - 4 6 9 4 Email R N A S H E R @ A N Z N Y . C O M		
Contact Name (Last, Space, First) N A S H E R , R Y A N , A . Mailing Address 2 3 2 N O R T H M A I N S T R E E T City N E W C I T Y State Zip N Y 1 0 9 5 6 - Phone 8 4 5 - 6 3 4 - 4 6 9 4 Email R N A S H E R @ A N Z N Y . C O M	SWPPP Preparer	
N A S H E R , R Y A N , A . Mailing Address 2 3 2 N O R T H M A I N S T R E E T	ATZL, NASHER & ZIGLER	
Mailing Address 2 3 2 N O R T H M A I N S T R E E T	Contact Name (Last, Space, First)	A4
2 3 2 N O R T H M A I N S T R E E T	NASHER, RYAN, A.	
City N E W C I T Y State Zip N Y 1 0 9 5 6 - Phone 8 4 5 - 6 3 4 - 4 6 9 4 Email R N A S H E R @ A N Z N Y . C O M	Mailing Address	
N E W C I T Y State Zip N Y 1 0 9 5 6 - Phone 8 4 5 - 6 3 4 - 4 6 9 4 Email R N A S H E R @ A N Z N Y . C O M	232 NORTH MAIN STREET	
State Zip N Y 1 0 9 5 6 -	City	
NY 10956- Fax Phone 845-634-4694 Email RNASHER@ANZNY.COM	NEW CITY	
8 4 5 - 6 3 4 - 4 6 9 4 Email R N A S H E R @ A N Z N Y . C O M	Scace Sip	
Email R N A S H E R @ A N Z N Y . C O M		
RNASHER@ANZNY.COM	8 4 5 - 6 3 4 - 4 6 9 4	5 - 6 3 4 - 5 5 4 3
SWPPP Preparer Certification	RNASHER@ANZNY.COM	
SWPPP Preparer Certification		
SWPPP Preparer Certification		
	SWPPP Preparer Certification	

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

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CONSTRUCTION

25. Has a construction sequence schedule for the planned management practices been prepared? • Yes O No

26. Select all of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural	Vegetative Measures											
O Check Dams	O Brush Matting											
O Construction Road Stabilization	O Dune Stabilization											
O Dust Control	O Grassed Waterway											
O Earth Dike	Mulching											
O Level Spreader	O Protecting Vegetation											
O Perimeter Dike/Swale	O Recreation Area Improvement											
O Pipe Slope Drain	Seeding											
O Portable Sediment Tank	O Sodding											
O Rock Dam	O Straw/Hay Bale Dike											
O Sediment Basin	O Streambank Protection											
O Sediment Traps	O Temporary Swale											
Silt Fence	Topsoiling											
Stabilized Construction Entrance	O Vegetating Waterways											
O Storm Drain Inlet Protection	Permanent Structural											
O Straw/Hay Bale Dike												
O Temporary Access Waterway Crossing	O Debris Basin											
O Temporary Stormdrain Diversion	O Diversion											
O Temporary Swale	O Grade Stabilization Structure											
O Turbidity Curtain	Land Grading											
O Water bars	O Lined Waterway (Rock)											
	O Paved Channel (Concrete)											
Biotechnical	O Paved Flume O Retaining Wall											
O Brush Matting												
O Wattling	O Riprap Slope Protection											
	O Rock Outlet Protection											
Other	O Streambank Protection											
STOCKPILE, CONCRETE W.	ASHOUT,											

FENCE

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required
 if response to Question 22 is No.

- 27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.
 - O Preservation of Undisturbed Areas
 - O Preservation of Buffers
 - O Reduction of Clearing and Grading
 - O Locating Development in Less Sensitive Areas
 - O Roadway Reduction
 - O Sidewalk Reduction
 - O Driveway Reduction
 - O Cul-de-sac Reduction
 - O Building Footprint Reduction
 - O Parking Reduction
- 27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).
 - O All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).
 - O Compacted areas were considered as impervious cover when calculating the **WQV Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.
- 28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

acre-feet

29. Identify the RR techniques (Area Reduction), RR techniques (Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

	Total Contributing	Total Contributing
RR Techniques (Area Reduction)	Area (acres)	Impervious Area (acres
O Conservation of Natural Areas (RR-1)	,	and/or -
O Sheetflow to Riparian Buffers/Filters Strips (RR-2)		and/or .
O Tree Planting/Tree Pit (RR-3)		and/or
O Disconnection of Rooftop Runoff (RR-4)		and/or
RR Techniques (Volume Reduction)		
O Vegetated Swale (RR-5)		
O Rain Garden (RR-6)		
O Stormwater Planter (RR-7)		
○ Rain Barrel/Cistern (RR-8)		,,,,,
O Porous Pavement (RR-9)		
○ Green Roof (RR-10)	******	
Standard SMPs with RRv Capacity		
O Infiltration Trench (I-1)		
O Infiltration Basin (I-2)	-	
O Dry Well (I-3)		
O Underground Infiltration System (I-4)		
O Bioretention (F-5)	, , , , , , , , , , , , , , , , , , , ,	
O Dry Swale (0-1)		
Standard SMPs		
O Micropool Extended Detention (P-1)	*****	
○ Wet Pond (P-2)		
O Wet Extended Detention (P-3)		
O Multiple Pond System (P-4)		
O Pocket Pond (P-5) · · · · · · · · · · · · · · · · · · ·		<u> </u>
O Surface Sand Filter (F-1)	************	
O Underground Sand Filter (F-2)		
O Perimeter Sand Filter (F-3)		
O Organic Filter (F-4)		
O Shallow Wetland (W-1)		E 100 00 00 00 00 00 00 00 00 00 00 00 00
O Extended Detention Wetland (W-2)		
O Pond/Wetland System (W-3)		
O Pocket Wetland (W-4)		NATURE AND DESCRIPTION OF THE PROPERTY OF THE
○ Wet Swale (0-2)		

Table 2 -Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY) Total Contributing Alternative SMP Impervious Area(acres) O Hydrodynamic O Wet Vault O Media Filter Other Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment. Manufacturer Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project. 30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29. Total RRv provided acre-feet 31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28). O Yes O No If Yes, go to question 36. If No, go to question 32. 32. Provide the Minimum RRv required based on HSG. [Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)] Minimum RRv Required acre-feet 32a. Is the Total RRv provided (#30) greater than or equal to the O Yes O No Minimum RRv Required (#32)? If Yes, go to question 33. Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

33.	Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).
	Also, provide in Table 1 and 2 the total <u>impervious</u> area that contributes runoff to each practice selected.
	Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.
33a.	Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29. WQv Provided
Note:	For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice
	- RRv provided by the practice. (See Table 3.5 in Design Manual)
34.	Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a).
35.	Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? O Yes O No If Yes, go to question 36. If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.
36.	Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.
	CPv Required CPv Provided
	acre-feet . acre-feet
36a.	The need to provide channel protection has been waived because: O Site discharges directly to tidal waters or a fifth order or larger stream.
	O Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.
37.	Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.
	Total Overbank Flood Control Criteria (Qp)
	Pre-Development Post-development
	cfs
	Total Extreme Flood Control Criteria (Qf)

Post-development

CFS

Pre-Development

CFS

8.											tenar									Λv-	es () N7	
	dev If	relo _l Yes,	ped?	nti	fy t	the	ent	itv			ement sible									O 16	:5	NO	
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37a. The need to meet the Qp and Qf criteria has been waived because:

O Site discharges directly to tidal waters

4285089826

40.	project/facility.
	O Air Pollution Control
	O Coastal Erosion
	O Hazardous Waste
	O Long Island Wells
	O Mined Land Reclamation
	O Solid Waste
	O Navigable Waters Protection / Article 15
	O Water Quality Certificate
	O Dam Safety
	O Water Supply
	• Freshwater Wetlands/Article 24
	O Tidal Wetlands
	O Wild, Scenic and Recreational Rivers
	O Stream Bed or Bank Protection / Article 15
	O Endangered or Threatened Species (Incidental Take Permit)
	O Individual SPDES
	O SPDES Multi-Sector GP N Y R
	O Other
	O None
41.	Does this project require a US Army Corps of Engineers Wetland Permit? If Yes, Indicate Size of Impact. O No
42.	Is this project subject to the requirements of a regulated, traditional land use control MS4? • Yes O No (If No, skip question 43)
43.	Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI?
44.	If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned.

Owner/o	Operator Certi	ification		
have read or been advised of the permit or nderstand that, under the terms of the per hat this document and the corresponding do ware that there are significant penalties	mit, there may be cuments were pre	e reporting re pared under my	quirements. I her direction or sup	eby certify ervision. I am
ine and imprisonment for knowing violation ill be identified in the acknowledgment th	s. I further und	erstand that co	overage under the	general permit
e as long as sixty (60) business days as pubmitting this NOI, I am acknowledging tha	rowided for in the	he general per	mit. I also under	stand that, by
irst element of construction, and agreeing exmit for which this NOI is being submitte	to comply with a			
Print First Name		MI		
STEVEN		П		
Print Last Name		l —		
GARABED				
Owner/Operator Signature		*		7%
		4		
		Date		7
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Department of Environmental Conservation

NYS Department of Environmental Conservation Division of Water 625 Broadway, 4th Floor Albany, New York 12233-3505

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit *(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

I. Project Owner/Operate	or Information
Owner/Operator Name:	SUEZ WATER NEW YORK, INC
2. Contact Person:	STEVEN GARABED
3. Street Address:	163 OLD MILL ROAD
4. City/State/Zip;	WEST NYACK / NY / 10994
II. Project Site Information	on
5. Project/Site Name:	MAHOPAC WELLS 1, 2, & 3
6. Street Address:	BUCKS HOLLOW ROAD
7. City/State/Zip:	CARMEL / NY / 10541
III. Stormwater Pollution	Prevention Plan (SWPPP) Review and Acceptance Information
8. SWPPP Reviewed by:	RICHARD FRANZETTI, PE, LEED
9. Title/Position:	TOWN ENGINEER
10. Date Final SWPPP Rev	newed and Accepted:
IV. Regulated MS4 Inform	ation
11. Name of MS4:	TOWN OF CARMEL
12. MS4 SPDES Permit Ide	ntification Number: NYR20A 294
13. Contact Person:	RICHARD FRANZETTI, PE, LEED
14. Street Address:	60 MCALPIN AVENUE
15. City/State/Zip;	MAHOPAC, NY 10541
16. Telephone Number:	845-628-1500

MS4 SWPPP Acceptance Form - continued
V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative
I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s). Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.
Printed Name: RICHARD FRANZETTI, PE, LEED
Title/Position: TOWN ENGINEER
Signature:
Date:
VI. Additional Information

(NYS DEC - MS4 SWPPP Acceptance Form - January 2015)

Appendix - F

MAHOPAC WELLS 1, 2, & 3

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

APPENDIX-F INFILTRATION TEST CERTIFICATION

BY

ATZL, NASHER & ZIGLER

ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

> TEL: (845) 634-4694 FAX: (845) 634-5543 E-MAIL: rnasher@anzny.com



ATZL, NASHER & ZIGLER P.C.

ENGINEERS-SURVEYORS-PLANNERS

232 North Main Street, New City, NY 10956

Tel: (845) 634-4694

Fax: (845) 634-5543

Email: rnasher@anzny.com

April 15, 2022

Town of Carmel 60 McAlpin Avenue Mahopac, NY 10541

Attn: Richard Franzetti, PE, LEED

Town Engineer

Re: Infiltration Test Certification

Mahopac Wells 1, 2, & 3 (Job #4870)

Town of Carmel

Putnam County, New York

Dear Mr. Franzetti,

A soil infiltration test was performed on April 11, 2022. The infiltration test location map is attached to this report for your reference (Page F-5). The infiltration test failed due to the presence of groundwater.

The results are as follows.

Test Hole #1

Infiltration test was proposed at a depth of 72-inches (6-feet):

Soil Log

0" to 12"

Topsoil

12" to 96"

Silt & Sand

Groundwater was found at 72-inches (6-feet) deep, El.: 577.0.

Note: An infiltration practice is not acceptable on the site per the infiltration test.

If you have further questions or concerns, feel free to contact our office. Thank you.

Truly Yours

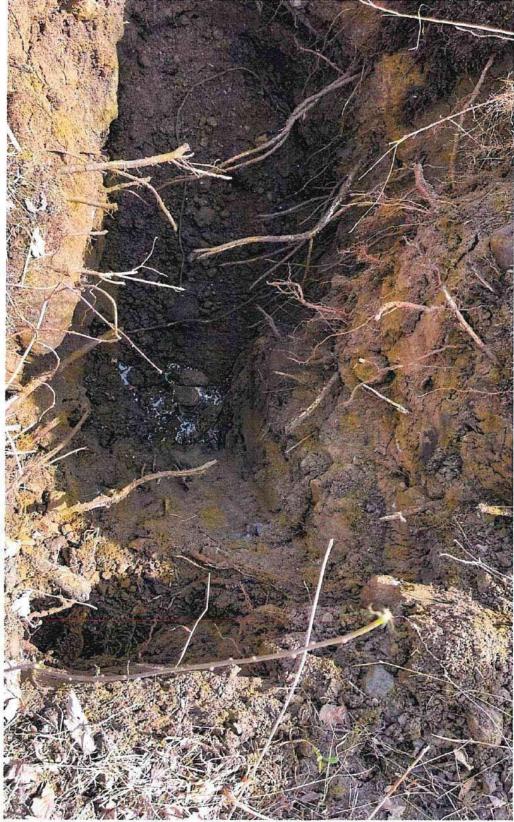


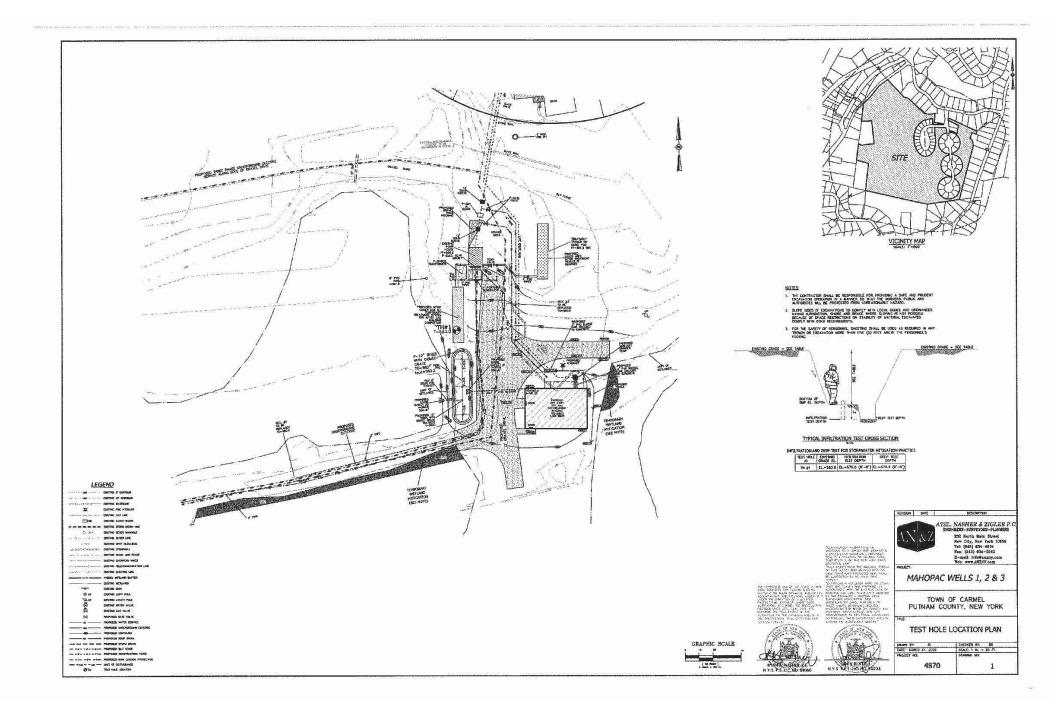
Figure 1: View of deep test hole (Test Hole#1) at 72-inches deep and the 30-inch pvc pipe used to determine the infiltration rate.



Figure 2: View of the soil profile (Test Hole#1).

	11					
					-	
11	Job no	4870	4/11/22	F	PTK	
4	350 770			1	2	
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Figure 3: Field notes (Test Hole #1).



MAHOPAC WELLS 1, 2, & 3

TOWN OF CARMEL PUTNAM COUNTY NEW YORK

DRAINAGE MAPS

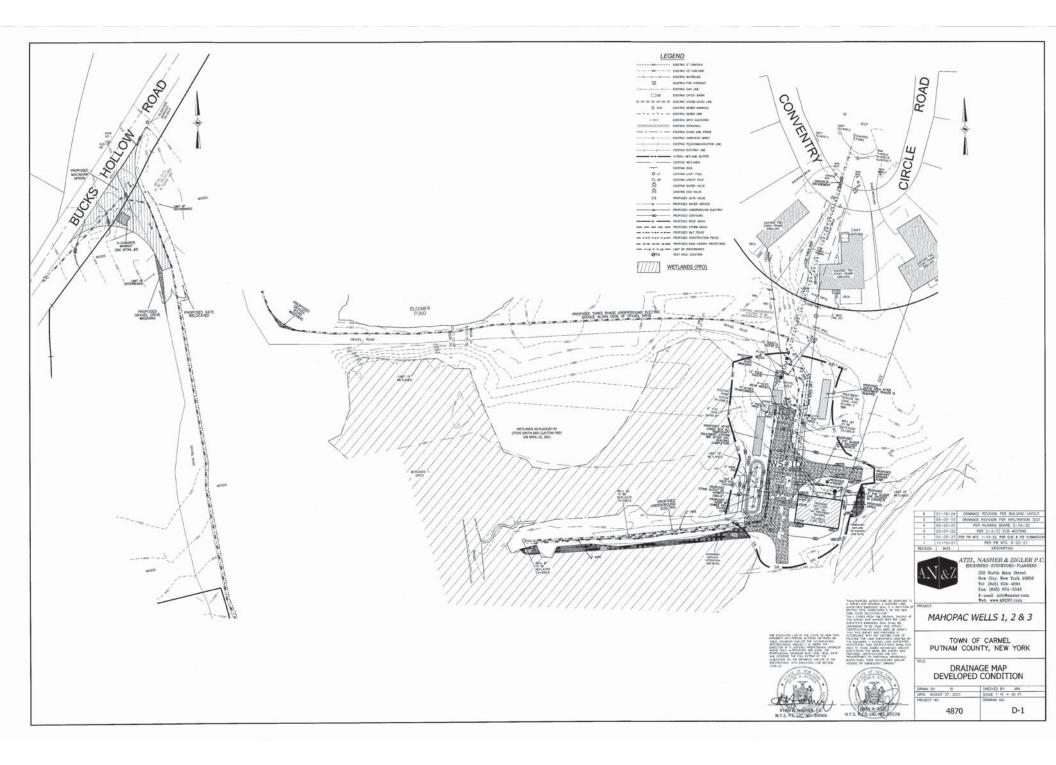
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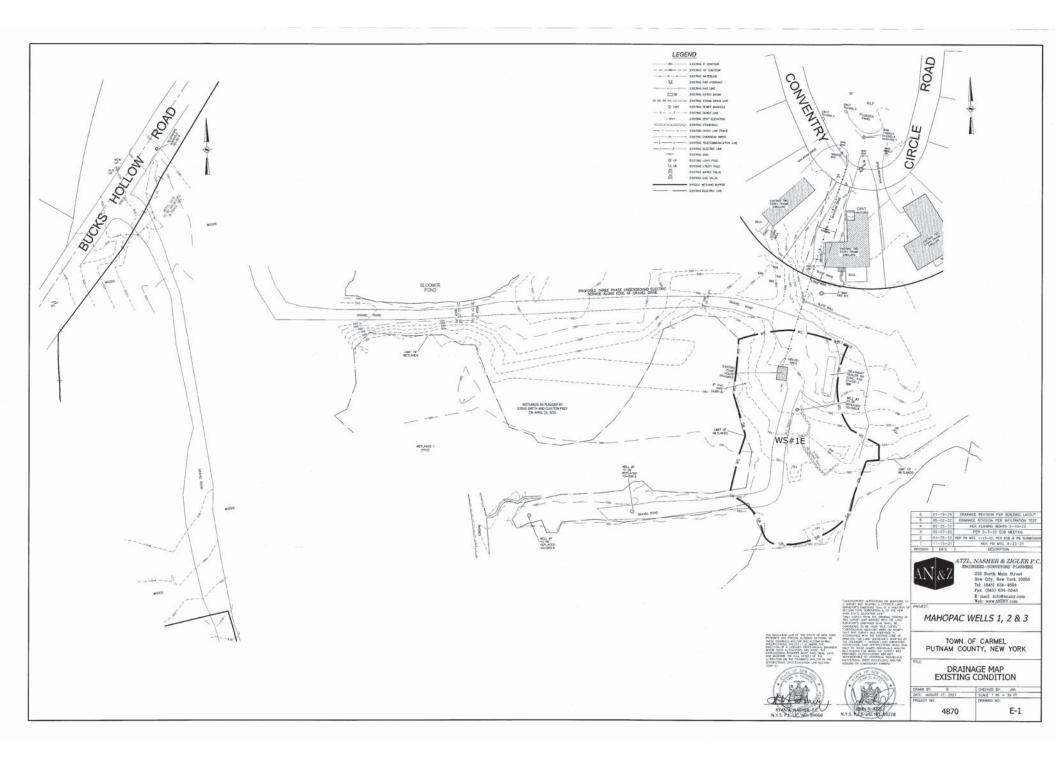
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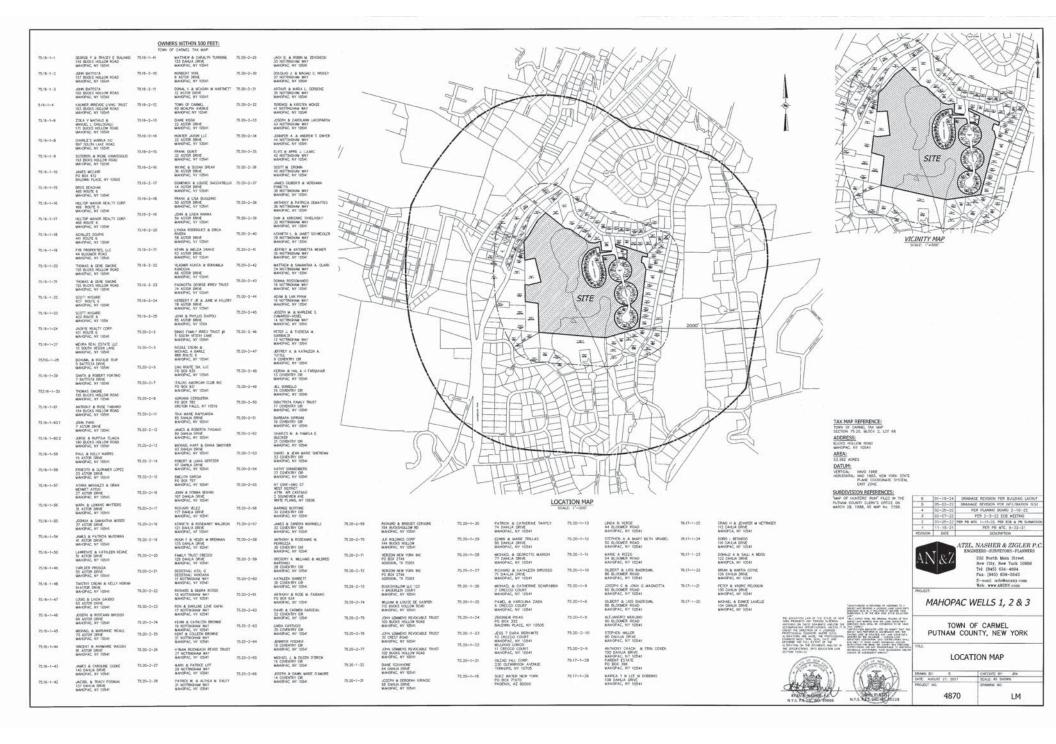
ENGINEERS-SURVEYORS-PLANNERS 232 NORTH MAIN STREET NEW CITY, NY 10956

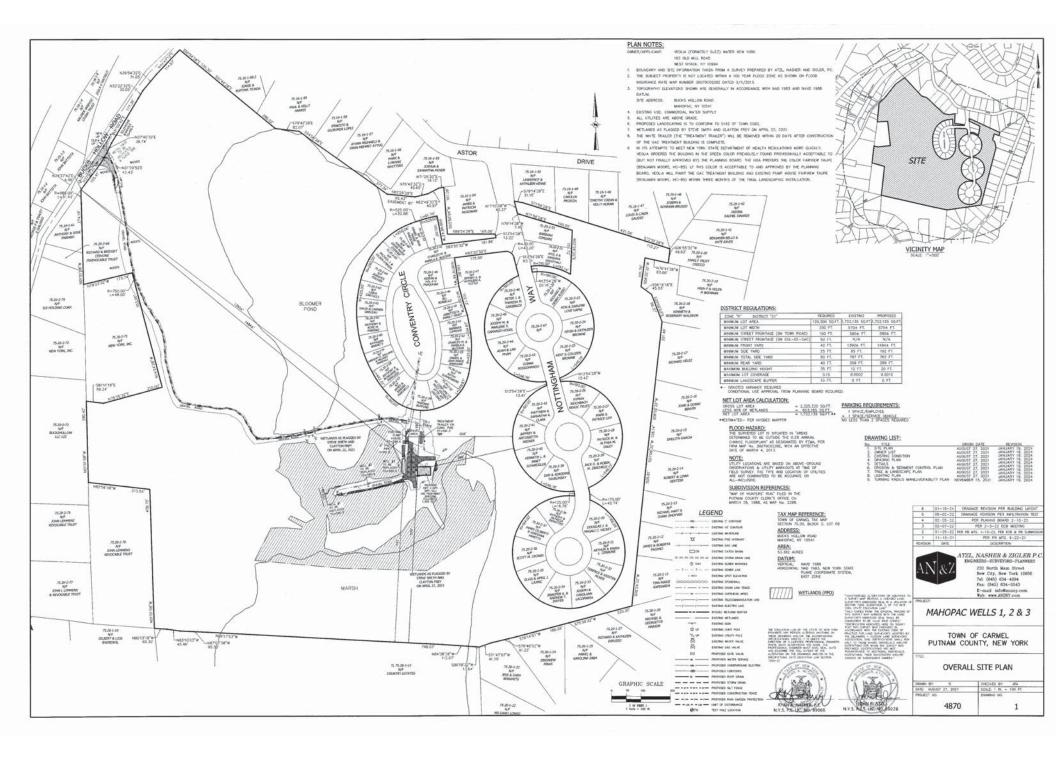
> TEL: (845) 634-4694 FAX: (845) 634-5543

E-MAIL: rnasher@anzny.com



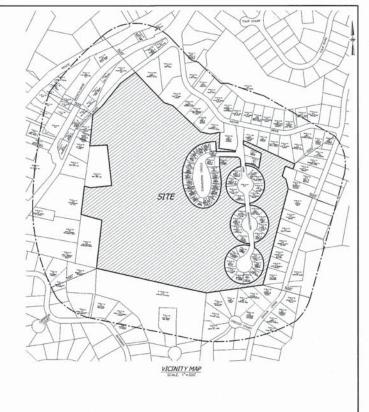






OWNERS WITHIN 500 FEET:

			OWN	OF CARMEL TAX	00 FEET:				
5.16-1-1	GEORGE P & TRACEY E SALIANO 149 BUCKS HOLLOW ROAD MANOPAC, NY 10541	7516-1-43	JAMES & CAROLINE COOKE 145 DAHLIA DRIVE MAHDRAC, NY 10541	75.20-2-25	KENT & COLLEEN BROWNE 21 NOTTINGHAW WAY MAHOPAC, NY 10541	75.20-2-61	ANTHONY & ROSE M. FABRANO PO BOX 654 MANGPAC, NY 10541	76.17-1-25	CRAIG H & JONNER M HI 112 DAHLIA DRIVE MAHOPCA, NY 10541
5.16-1-2	JOHN BATESTA 157 BUCKS HOLLOW ROAD MARKERG, NY 10541	75.16-1-42	JACOBI, & TRACY POSMAN 137 DAMEJA DENE MANCPAC, NY 10541	75 20 - 2 - 26	HYMAN RECHBACH REVOC TRUET 27 NOTTINGHAM WAY MAHOPAC, NY 10541	75.20-2-52	DAVID & CARMEN GARGEAU 22 COVENTRY OR MANOPAC, NY 10541	76,17=1-24	DORIS & BERARDO 116 DANEJA DRIVE MANOPAC, NY 10541
5.16-1-3	JOHN BATTISTA 165 BUCKS HOLLOW ROAD MAROPAC, NY 16541	75.16~1~41	MATTHEW & CARALYN TURRONE 133 DAVEJA ORIVE MAHOPAC, NY 10541	75:20-2-27	MARK & PATROE LIFE 29 NOTTINGHAM RAY MAHCPAC, NY 10541	75 20-2-53	LINDA CARTUCO 20 COVENTRY OR MANOPAC, NY 10541	76.17-1-23	DONALD A & SALLI A MOS 122 DANLIA DRIVE MANCPCA, NY 10541
16-1-4	KALINER IBREVOC LIVING TRUST 163 BUCKS HOLLOW ROAD MAHOPAC, NY 10541	75.16-2-10	NORSERT VOIL 6 ASTOR DRIVE MANDPAC, NY 10541	75.20-2-28	PATRICK M. & ALTHEA M. DALEY 31 NOTINGHAM WAY MAHOPAC, NY 10541	75:20-2-64	JONNER FISCHER 18 COVENTRY OR MANDRAC, NY 10541	76,17=1=22	BRIAN & MARTIN COVINE 126 DAHLIA DRIVE MAHDRAC, NY 10541
5.16-1-6	ZOLA V MATALO & MANUEL L ONLLOGALI 171 BUDIS HOLLOW ROAD MAROPAC, NY 10541	75.16~2=11	DONAL K & MEAGAN W HAPTNETT 12 ASTOR DRIVE MAHORAC, NY 10541	75-20-2-29	JACK D. & ROBH W. ZONOHECK 33 NOTTINGHAM WAY MAHOPAC, NY 10041	75.20-2-65	MICHAEL, 2. & ELLEN O'BREN 15 COMENTRY OR MARCPAC, NY 10541	76.17-1-21	PETER & VACHE PELOCUB 130 DANIJA DRIVE MANDRAC, NY 10541
5.16-1-8	MAROPAC, NY 10541 CHARLE'S MARINA RIC 897 SOUTH LAKE ROAD MAROPAC, NY 10541	75:16-2-12	TOWN OF CARMEL 60 WCALPIN AVENUE MANCRAC NY 10513	75.20-2-30	DOUGLAS J & MAGALI C. HOKEY 37 NOTTINGHAM WAY MAHOPAC, NY 10541	75.20-2-66	JOSEPH & DAIN MATE D'AVORE 14 COVENTRY OR MAHOPAC, NY 10541	M.17-1-20	MICHAEL & EURICE LAWELL 134 CHALIA DRIVE MAHOPAC, NY 105WI
7.16-1-0	MANOPAC, NY 10541 SOTEROS & RENE KAMVOSILIS 193 BOX'S HOLLOW ROAD MANOPAC, NY 10541	75.16-2-13	DIANE KISSIN 22 ASTOR DRIVE WANDPAC, NY 10541	75.20-2-31	ARTHUR & MARIA L. CERSONE 36 NOTENGHAM WAY MAHORAC, NY 10541	75.20-2-68	REHAVE & BREGET CERVONE 154 BUCKSHOLLOW RD BANGPAC, NY 10541		
5.16-1-10	MARCPAC, NY 10541 JAMES MCCABE PO BOX 472 BALDWIN PLACE, NY 10505	75.16-2-14	HUNTER JAKON LLC 22 ASTOR GRINE MAHOPAC, NY 10541	75.20-2-32	TERSNOE & RRISTEN MOKEE 41 NOTTINGHAM BAY MAHCPAC, NY 10541	75.20-2-70	JR HOLDINGS CORP 144 BISCKS MOLDW MAHOPAC, NY 10541		
5.16-1-15	BALDWIN PLACE, NY 10005 BROS BEACHAK 485 ROUTE 6 MAHOPAC, NY 10541	75.16-2-15	FRANK GUNTS 32 ASTOR OFFIR MAHOPAC, NY 10541	75.20-2-33	JOSEPH & CAROLANN LACOPARRA 45 NOTTINGHAM WAY MAHOPAC, NY 10541	75.20-2-71	VERIZON NEW YORK INC YO BOX 2749 400510N, TX 75001		
5.16-1-10	HALTOP MANOR REALTY CORP. 468 ROUTE B WARDPAC, NY 10541	75.16-2-16	WAYNE & SUSAN SPEAR SK ASTOR DRIVE MANDPAC, NY 10541	75.20-2-34	JENNEER A. & ANDREW T. DWYCE 44 NOTTINGHAM MAY MAHOPAC, NY 10541	75-20-2-72	VERSION NEW YORK INC. PO BOX 2749 ADDISON, TX 75001		
5.16-1-17	WARDPAC, NY 10541 HELTOP MANOR REALTY CORP. 466 ROUTE 6 WARDPAC, NY 10541	75.16-2-17	DOMENON & LOUISE SACONTELLO NA ASTOR DRIVE MANOPAC, NY 10541	75:20-2-35	ELVS & APPR J. LJUMC 42 NOTTINGHAM WAY MAHDPAC, NY 10541	75.25-2-73	BUCKSHOLLOW LLC 122 4 BAUGREEN COURT WARDFAC, NY 10541		
5.16-1-18	MANOPAC, NY 10541 ACHILES DOUPS 441 ROUTE 6 MANOPAC, NY 10541	75.16-2-18	FRANK & LISA GUALDINO 50 ASTOR DRIME MAHORAC, NY 10541	75.20-2-36	SCOTT M. CROWN 40 NOTTINGHAM WAY MAHOPAC, NY 10541	75:20-2-78	WELFAW & LOUISE DE GASPERI 112 BLOKS HOLLOW ROAD MANDFAC, NY 10541		
5.16-1-16	WANDFAC, NY 10541 FYB PROPERTIES, LLC 44 BLOOMER ROAD WANDFAC, NY 10541	75.18-2-19	JOHN & LINDA NAMIA 54 ASTOR BRISE MANDRAC, NY 10541	75.20-2-37	JAMES CLIBERTI & VERDANA PANETTA 38 NOTENGHAM WAY MAHOPAC, NY 10541	75.20-2-76	JOHN LEMINUS REVOCABLE TRUST 100 BUCKS HOLLDW ROAD MANOPAC, NY 10541		
5.16-1-20	MANOPAC, NY 10541 THOMAS & GENE SMONE 155 BUCKS HOLLOW ROAD MANOPAC, NY 10541	75.18-2-25	L'HONA HODROUEZ & ERCA RIVERA SA ASTOR DRIVE MAHOPAC, NY 10541	75.20-2-M	MAHOPAC, NY 10541 ARTHONY & PATRICIA DEMAITED 36 HOTTING-IAM WAY MAHOPAC, NY 10541	75:20-2-76	JOHN LEMMENS REVOCABLE TRUST 30 CREST ROAD MARCHAE, NY 10541		
5.16-1-21	MANOPAC, NY 10541 THOMAS & GENE SMONE 155 BUCKS HOLLOW ROAD MANOPAC, NY 10541	75.16-2-21	MAHOPAC, NY 10541 KENIN & IMELDA DARKO 62 ASTOR DRIVE MAHOPAC, NY 10541	75.20-2-39	MAHOPAC, NY 10541 DAN & ADMENNE TAVELNISKY 32 NOTINGHAM NAY MAHOPAC, NY 10541	75.20-2-77	JOHN LEMMENS REVOCABLE TRUST 100 BUCKS HOLLOW ROAD MAHOPAC, NY 10541		
5.16-1-22	SCOTT NYGARD 427 FOUTE 6 WAHOPAC, NY 10541	75.16-2-22	MACRIE ATRICE & BORRARIA	75.20-2-40	MAHOPAC, NY 10541 KENNETH L. A. JANET SCHWEGLER 28 NOTENGHAM WAY MAHOPAC, NY 10541	75.20-1-32	DIANE SCHAVORE 64 DAIGIA DRIVE MAHOPAC, NY 10541		
5.16-1-23	SCOTT NYGARO 423 ROUTE 6 WANDPAC, NY 1054	75.16-2-23	KUNCOVA 66 ASTOR BRINE MAHOPAC, NY 10541 PAGNOTTA GEORGE SIREY TRUST	75.20-2-41	MAHOPAC, NY 10541 JEFFRY & ANIDWETTA MENER 35 NOTINGHAM RAY MAHOPAC, NY 10541	75:30=1=31	JOSEPH & DEBORAH KIRINGC 66 DARUA DRIVE MARCPAC, NY 10541		
5.16-1-24	MANOPAC, NY 1054 JACKYE REALTY CORP. 421 ROUTE 6 MANOPAC, NY 10541	75.16-2-24	PAUNOTTA GEORGE PREV TRUST 78 ASTOR DRIVE MANOPAC, NT 10541 HERBERT F. JR. A. JANE W. HILLERY	75.25-3-42	MAHOPAC, NY 10541 MATTHEW & SAMANIHA A. CLAFR 24 NOTINGHAM NAY MAHOPAC, NY 10541	75:30-1-30	PATRICK & CATHERINE TARPEY 74 DAMEA DRIVE NAHOPAC, NY 10541		
5.16-1-27	WANDPAC NY 10541 WEDRA REAL ESTATE ILE 10 SOUTH VESCH LANE WANDPAC, NY 10541	75.16-2-25	HEMBERT FUR & JUNE W HILLERY 78 ASTOR DRIVE WHIOPAC, NY 10541 JOHN & PHYLUS DIAPOU	75.20-2-43	MAHOPAC, NY 10541 DORBNA HOSSOMANDO 18 NOTTINOHAW WAS MAHOPAC, NY 10541	75:20-1-29	EDWIN & MARIE TRELAS 80 DANILIA DRIVE MAHORAC, NY 10541		
5316-1-28	BOHAME & ROZALE FEP 5 HATESTA DRIVE MANOPAC, NY 10541	75.20-2-2	JOHN & PHYLLIS DIAPOLI 85 ASTOR DRIVE MAHOPAC, NY 1054 BONS FAMILY IRREY TRUST 41	75.20-2-44	MAHOPAC, NY 10541 ACAM & LAN PHAM 16 NOTENDHAM WAY MAHOPAC, NY 10541	75.20-1-28	MONAEL & GEORGITE MARION 77 DANELS DRIVE MARGRAC, NY 10541		
5.16-1-29	MAROPAC, NY 10541 SANTA & ROBERT FORTINO 7 BATESTA DRINE MAROPAC, NY 10541	75.20-2-3	BRNS FAMILY IRREY TRUST #1 5 SOUTH VESCH LAND MAHOPAC, NT 10541	75.20-3-45	MAHOPAC, NY 10541 JOSEPH M. & WAPLENE S.	75-20-1-27	MICHARD & KATHLEEN DRUSSO 71 DARLIA DRIM MARGRAC, NY 10541		
53,16-1-30	MARCEAC, NY 10541 THOMAS SMONE 115 BUCKS HOLLOW ROAD WARDEAC, NY 10541	1040-2-4	NCOLE STEPN & MCHAEL A BARLE 888 ROUTE 6 MANOPAC, NY 10541	75.20-2-46	JOSEPH M. & WARLENE S. CAMARGO-VOCEL 14 MOTTRICHAM WAY MANCPAC, NY 10541	75.20-1-36	MARCHAEL & CATHERINE SCARABRA 2 CREDOD DOURT MARCHAEL NY 19541		
5.10-1-61	156 BUDKS HOLLOW ROAD WAHDFAC, NY 10541 ANTHONY & ROSE FABRANO 154 BUDKS HOLLOW ROAD WAHDFAC, NY 10541	75.20-2-5	DAG ROUTE SIX, LLC PO BOX 836 MAHDPAC, NY 10541	73.20-2-46	PETER J. & THEPESA M. GARSALDR 12 NOTTINGHAW WAY MAHOPAC, NY 10041	75.20-1-25	MANDPAC, NY 10541 PANEL & KAROLINA ZABA 6 ORECCO COUNT MANDPAC, NY 10541		
5.16-5-60.1		75:20-3-7	ITALIAN AMERICAN CLUB INC PO BOX 931 MAHOPAC, NY 10541	75.20-2-47	ETFREY A. & KARLEEN A. TUTTLE B COVENIEVY OR MANGRAC, NY 10541	75.20+1-24	MAHOPAC, NY 10541 ZBICKEW PINAS PO BOX 332 BALDMN PLACE, NY 10505		
5.16-1-60.2	JOHN FARN 7 ASTOR DRIVE MANOPAC, NY 10541 JORGE & RUPTINA TEJAGA	75.20-2-8	ACHIANA CERQUERA PO 80X 782 CROTON FALLS, NY 10519	75.20-2-48	MAHOPAC, NY 10541 KETRAN & HAL A H FARQUHAR 13 COMENTRY CIR MAHOPAC, NY 10541	75.20-1-23	STATE OF TAXABLE PROPERTY.		
5.16-1-56	JORGE & RUFFINA TEJADA TIKO BUCKS HOLLOW ROAD MAROPAC, NY TOSHI PALE & MELLY HARRES	75.20-2-11	THA MARIE RAPISARDA 85 DAHLIA DRIVE MAHOPAC, NY 10541	75:20-2-49	MAHOPAC, NY 10541 JUL BONELLO 15 COMENTRY CIR MAHOPAC, NY 10541	75.20-1-22	1D ORECTO COURT NAMED ACT 10541 NELIMATE LONGO 11 DRECTO COURT NAMED ACT 10541 NAMED ACT 10541		
5.16-1-55	PAIR & RELLY HARRS 15 ASTOR DRIVE MAHOPAC, NY 10541 ERRESTO & GLORIGE LOPEZ	75.20-2-12	JAMES & ROBERTA PAGANO 89 DANLIA DRIVE MAHOPAC, NY 10541	75:20-2-50	MAHOPAC, NY 10541 DISATTISTA FAMILY TRUST 17 CONDITEY OR MAHOPAC, NY 10541	75.20-1-21	GLEAD HELL CORP. 230 GLEMBROOK AVENUE TORKERS, NY 10705		
5.16-1-57	ERNESTO & GLORINER LOPEZ 23 ASTOR DIEVE WANDFAC, NY 10541 AVANA MIDHALES & ORAN	75.20-2-13	MICHAEL HART & DIAMA SMOTHER 93 DAHLIA DRIVE MANOPAC, NY 10541	75.25-2-58	MAYOPAC, NY 10541 BARBARA CIPRIANI 19 CONDITRY CIR MAYOPAC, NY 10541	75.20-1-16	SUEZ WATER HEW YORK PO BOX 71970 PHOENX, AZ 85050		
	AYANA MICHALES & CRAM MEHMET AYTHO 27 ASTOR DRIVE WAHDI'AC, NY 10541	75.20-2-14	ROBERT & LIANA SERTEDR 97 DANILA DRIVE MANGRAC, NY 10541	75.20-3-52	CHARLES M. & PAMILA E.	75.20-1-13	LINDA IN VERDE 44 BLOOWER ROAD MAHORAC, NY 10541		
3.16-1-56	MARK & LUMANG WHITERS 31 ASTOR DRIVE MARGHAC, NY 10541	75:20-2-15	EMELITH GARDIA PO BOX 757 MAHOPAC, NY 10541	75 20-2-53	21 COVENTRY CIR MAHOPAC, NY 10541	75.20-1-12	STEPHEN A & MARY DETH VRADEL SO BLOOMER ROAD MAHORAC, NY 10541		
5.16-1-55	JOSHUA & SAWANTHA MOSER 37 ASTOR DRIVE WANDRAC, NY 10541	75:26-2-16	JOHN & DONNA BOWN 107 DAHLIA DRING MANOPAC, NY 10041	75.20-2-54	DANEL & JEAN MARIE SHERDAN 23 COVENTRY CIR MAHOPAC, NY 10541	75:20-1-11	WARE A RIZZO 54 BLOOWER ROAD WARDPAC, NY 10541		
5.16-1-54	JAMES & PATRICIA NEGONAN 41 ASTOR DRIVE MAHOFAC, NY 10541	75.20~2~17	ROHARD VELEZ 117 DAHLA DRIVE MAHOPAC, NY 10541	75.20-2-55	KATHY SONNENBERG 27 COVENTRY CIR MAHCPAC, NY 10541	75:20-1-10	GLOCAT & LICS BACKSML, 86 BLOOMER ROAD WARDPAC, NY 10541		
5.16-1-50	LAWRENCE & KATHLEEN KEANE ST ASTOR DRIVE MANOFAC, NY 10541	75-20-2-18	KOWETH & ROSEMARY WALDRON 121 DANIJA DRIVE MAHORAC, NT 10541	1020-0-00	NY CONFILINC CT NEST DISTRICT ATTN: API CASTANO 2 SOURDWAY ANE NHTE PLANS, NY 10606	75.20=1=9	MARCHAC, NY 10041 JOSEPH G & JORN G MAGNOTTA BO BLOOMER ROAD MARCHAC, NY 10541		
5.16-1-49	CAPLOCK PROSICIA 55-ASTOR DRIVE WARDPAC, NY 10541	75:20-2-19	HUGH F & HELDH M BRENNAN 125 DAVICIA DRIVE MANOPAC, NY 10541	75 20 - 2 - 56	MARME BUFFONE 34 COVENTRY OR MAHISPAC, NY 10541	75:20-1-6	GLEERT & LOS BAERSME. 86 BLOOMER ROAD. MAHOPAC, NY 10541		
5.16-1-46	TWOTHY CREAM & KELLY HORAN STASTOR DRIVE WANDPAC, NY 10541	75.20-2-20	FAMILY TRUST CRECCO 129 DANLIA DRINE MANOPAC, NY 10541	75.20-2-57	LAMES & SANDRA WARRELLI 32 COVENTRY CR MAHOPAC, NY 10541	75.20-1-5	MAHOPAC, NY 10541 ALEJANDHO MERLING NO BLOOMER ROAD MAHOPAC, NY 10541		
5.16-1-47	LOUIS & LINDA GALDIO 65 ASTOR DRIVE MAHOPAC, NY 10541	75.20-2-21	DOOSTHALF ATUL G DOOSTHALF WANDAMA 11 NOTTHINDHAM WAY MANOPAC, NY 10541	75 20-2-50	MAHENAC, NY 10041 ANTHONY & ROSEANNE M. PERRUZZA 30 CONSTRY OR MAHENAC, NY 10541	75:20-2-10	MAHOPAC, NY 10541 STEPHEN MELLER SO DANALA DRIVE MAHOPAC, NY 10541		
5.16-1-46	JOSEPH & ROSEANN BRUSSO 69 ASTOR DRINE WARDPAC, NY 10541	75.20-2-22		75.20-2-59	30 COVENTRY OR MAHORIC, NY 10541 OREGORY A. WILLIAMS & MILDRED MARGARIL	75.20-2-9	MAHOPAC, NY 10541 ANTHONY CHACH & ERIN COXEN 100 DAHLIA ONNE		
5.16-1-45	WOHAEL & WARRANGE VICALE 73 ASTOR DRIVE WARDPAC, NY 10541	P5-20-2-23	RICHARD & DESIRA RUSSO 15 NOTTINGHAM WAY MAHOPAC, NY 10541 NON & DARLENE LOVE GAYNI		28 COVENTRY OR MAHOPAC, NY 10541	76.17-1-28	ANTHONY CHACH & ERN COXEN 100 DAHLA CHINE NAMERICA, NY 10541 PAROST ESTATE PO BOX 386 NAMERICA, NY 10541		
5.16-1-44	VINCENT & ANNIMARE VIAGGO 81 ASTOR DRIVE MANCPAC, NY 10041	75:20-2-24	NON & DARLENE LOVE GAINS 17 NOTTINGHAM WAY MAHOPAC, NY 10541 NEWN & CATHLED BROWNE 18 NOTTINGHAM WAY MAHOPAC, NY 10541	75.20-2-60	KATHLEEN BARRETT 26 COVENTRY CIR MANCPAC, NY 10541	26.17-1-26	MARIEA T & LEE N DOBBINS 108 DAMLIA DRINE MARIEPAC, NY 10541		



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MAHOPAC WELLS 1, 2 & 3

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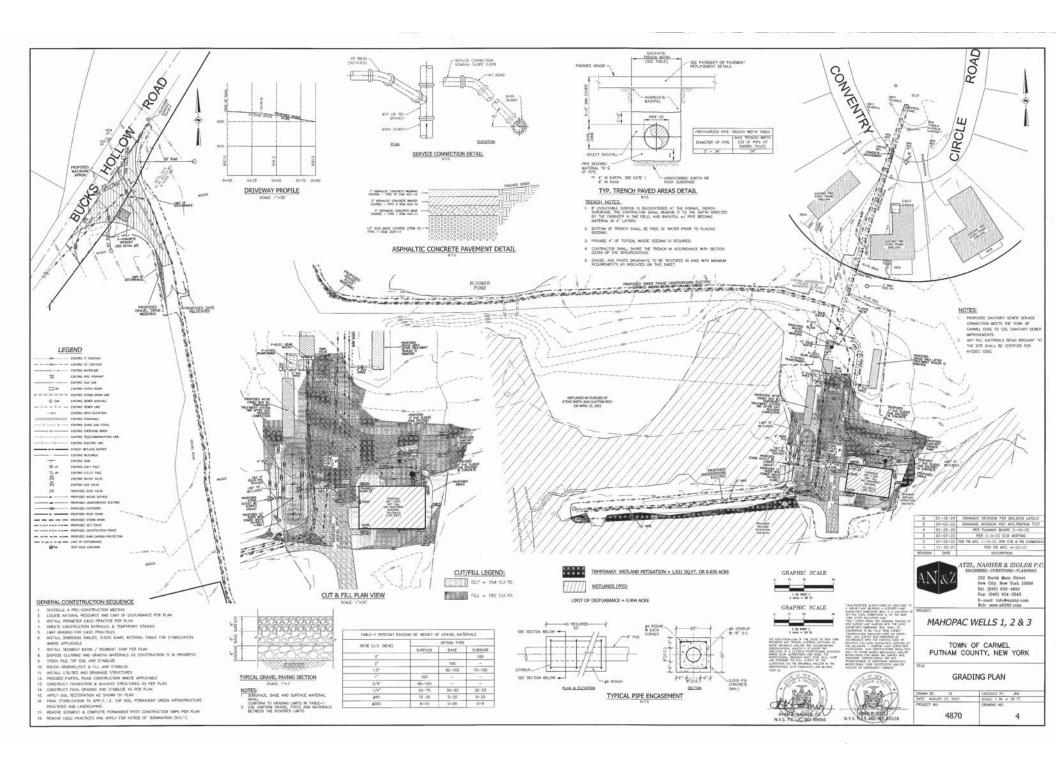
ATZL, NASHER & ZIGLER P.C.
EMUNERS-SURTIVORS-PLANNESS
223 North Main Street
New City, New York 10056
Tel. (945) 624-6949
Fax: (945) 624-6949
Fax: (945) 624-6540
E-mail: info@many.com
Web: www.ANZNY.com

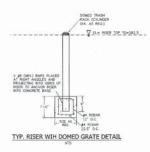
TOWN OF CARMEL PUTNAM COUNTY, NEW YORK

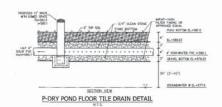
OWNERS WITHIN 500 FT. LIST

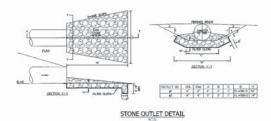
1.	DRAWN BY: 15	OKOKO DY: JIA
- 1/1	DATE: AUGUST 27, 2021	SCALE: 1 IN = 100 FT.
O/I	PROJECT NO:	DRAWING NO
80228	4870	2

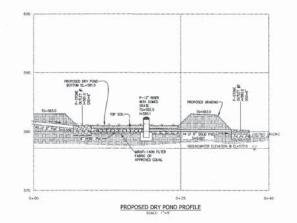












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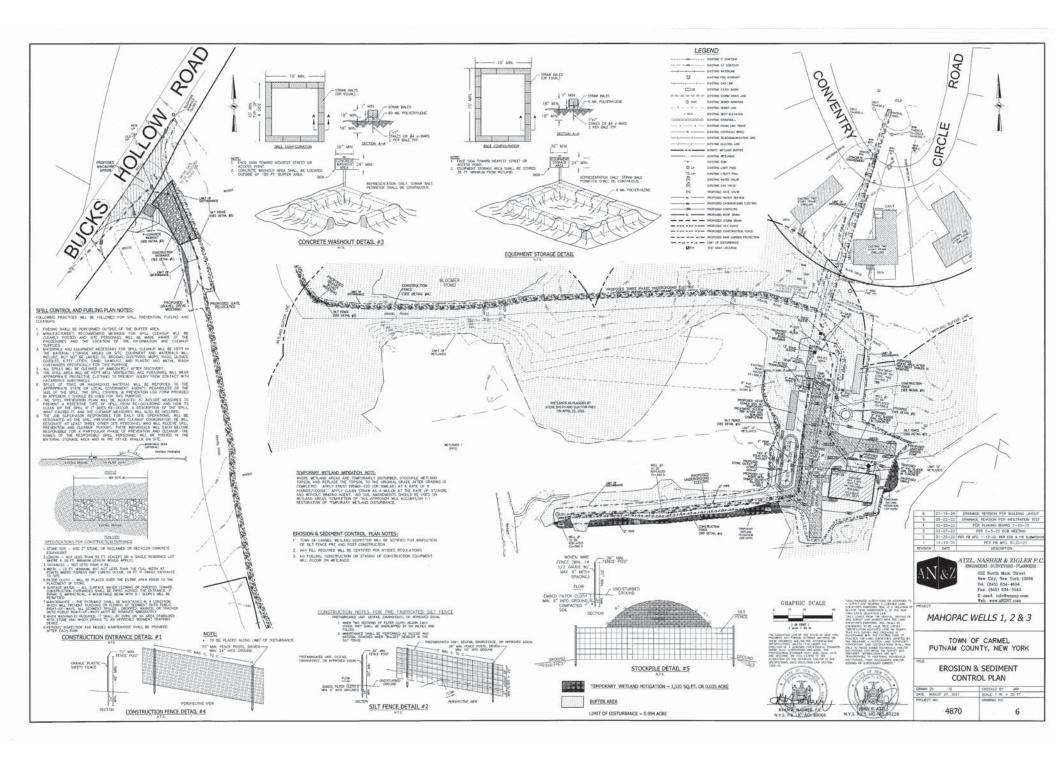


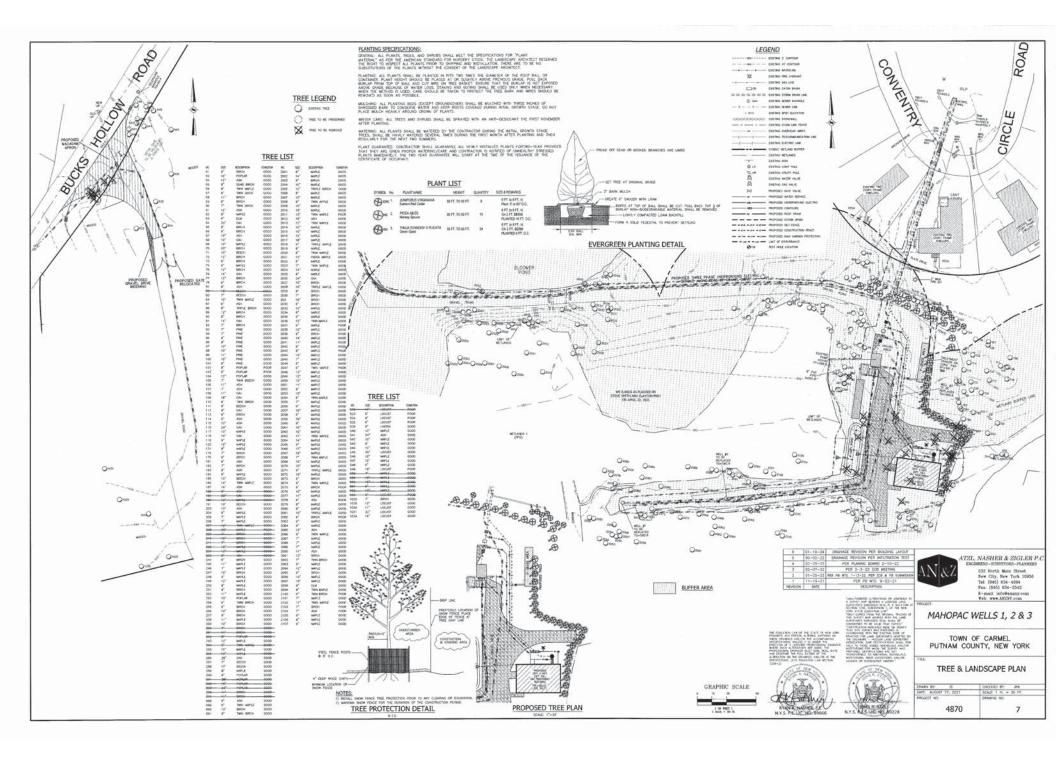


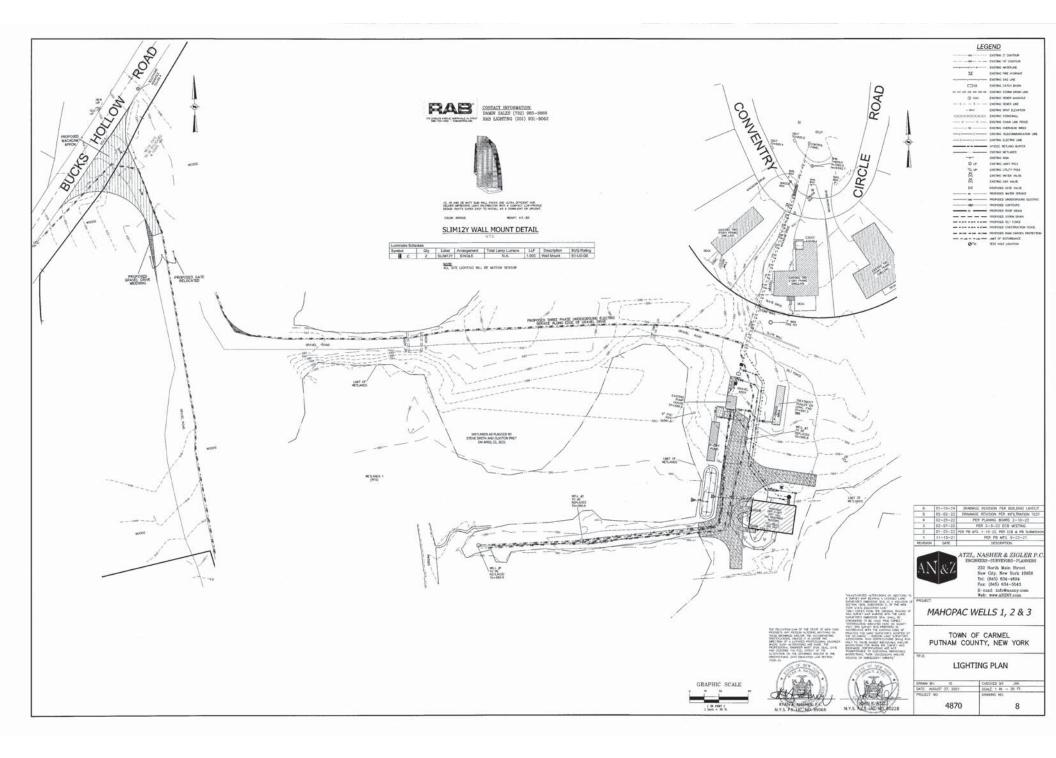
TOWN OF CARMEL PUTNAM COUNTY, NEW YORK

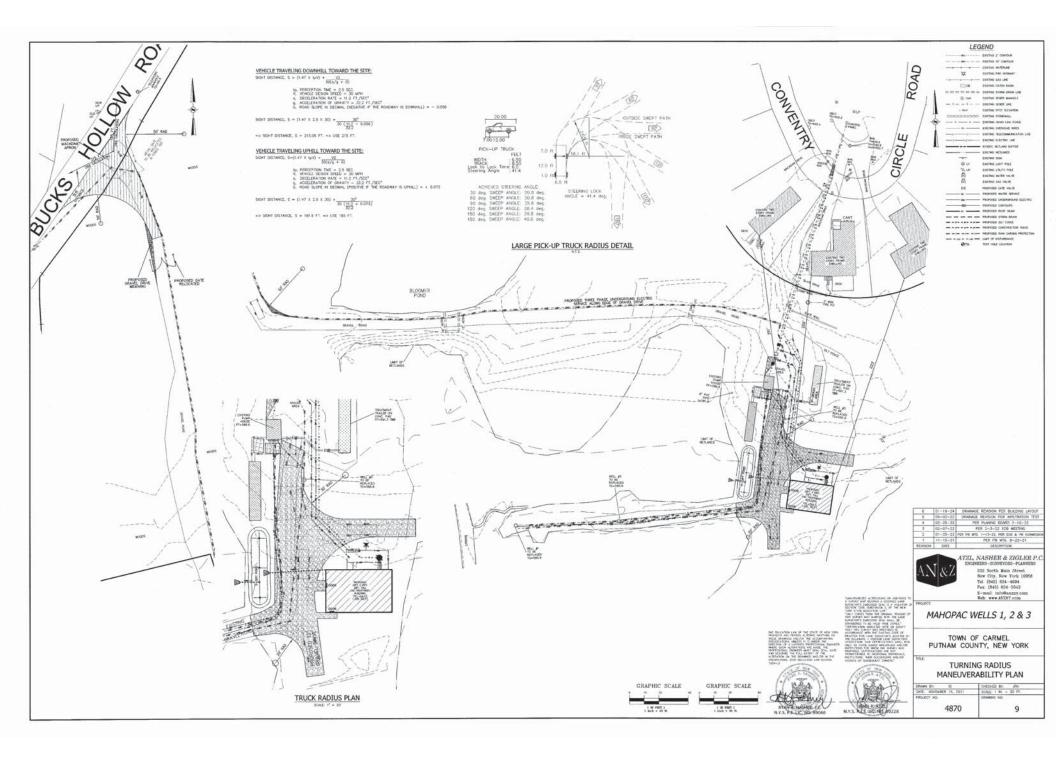
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DATE: AUGUST 27, 2021	SCALE: AS SHOWN
PROJECT NG:	DRAWING NO.
4870	5











January 29, 2024

Town of Carmel Planning Board 60 McAlpin Avenue Mahopac, New York 10541

RE: Union Energy Center, LLC Site Plan 24 Miller Road Mahopac, NY 10541

TM#'s: 86.11-1-14

Dear Chairman Paeprer and Members of the Board:

Please find enclosed the following plans and documents in support of an application for site plan approval for the above referenced project:

- Site Plan Set, last revised January 29, 2024.
- Full EAF, last revised January 29, 2024.

It is our intent with this resubmission to ask the Board to re-declare its intent to act as lead agency under SEQRA and re-circulate to the involved/interested agencies, as the Public Service Commission needs to be included as an involved agency. In addition, we have also responded to previous driveway comments, and wish to update the Board on our recent meeting with the ECB.

In response to open comments received from Director of Code Enforcement, Michael Carnazza, dated December 11, 2023, we offer the below responses:

- 2. The project was introduced to the Environmental Conservation Board on January 18, 2024. It was generally well received and the members acknowledged the advantages of the battery energy storage system (BESS) technology that is proposed for the site, noting its potential to stabilize the grid and improve the viability renewable energy sources. Dialogue will be maintained with the ECB as the applicant pursues permits with NYSDEC and AOCE.
- 3. The applicant was recently asked by the Fire Department to reduce the driveway slope to 8%. Previously the driveway was shown at 12%. The fire code requires that the driveway be a maximum of 10%, but this maximum can be varied by the fire code official. The plans have been revised to show the driveway at the Fire Code prescribed 10%. Further reduction of the slope would cause the driveway to be further lengthened, which would create additional disturbance, including in the wetland buffer/adjacent area. The applicant is seeking approval of the 10% driveway as permitted by the code.

In response to open comments received from Town Engineer Richard Franzetti, PE, dated December 5, 2023, we offer the following responses:

General Comments

- 1. The applicant is requesting that the Public Service Commission be added as an involved agency and that the project be referred to them as well.
- 2. A revised Wetland Function, Value and Impact report will be provided with a future submission addressing these concerns.

Detailed Comments

- 1. Sight distance calculations and a driveway profile will be provided with a future submission.
- 2. Stormwater testing has been scheduled and the stormwater management design and supporting calculations will be provided with a future submission.
- 3. Stormwater testing has been scheduled and the stormwater management design and supporting calculations will be provided with a future submission.

Very truly yours,

INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

By:

Richard D. Williams, Jr., PE Senior Principal Engineer

JJC/adt

Enclosures

cc: (All via email only)
Scott Connuck
Compton Donohue
Frank Smith, Esq
William Shilling, Esq
Mahopac Volunteer Fire Dept

Insite Project#: 21120.100

Full Environmental Assessment Form Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. 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; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project:		
Jnion Energy Center, LLC		
Project Location (describe, and attach a general location map):		
Jnion Valley Road and Miller Road		
Brief Description of Proposed Action (include purpose or need):		
The applicant is seeking to construct a 116-megawatt battery energy storage system. The pro- driveways, two pads for battery storage, two substations, and the associated landscaping and stored in above ground enclosures similar to shipping containers and the project would conne- casement on the site. The 93.5 acre site, where the proposed development would occur is cu	I stormwater management practices ect to NYSEG transmission lines tha	s. The batteries would be
The applicant is also seeking to modify existing property lines between the proposed develop which contains a New York State Electric and Gas (NYSEG) substation. Of the two proposed The proposed lot line adjustment would allow NYSEG ownership of this substation. Additiona LC, would be enlarged into the project site. In the proposed configuration, the proposed device 12.3 acres, and the Teal Door lot would be 4.3 acres. The proposed subdivision would added and deduct the sum of the two from the development lot. There are no water or wastewater in	substations, one would be owned a silly, the adjacent lot known as now o relopment lot would contain 78.9 ac d 10.7 acres to the NYSEG lot, 3.9	and controlled by NYSEG. or formerly The Teal Door, res. the NYSEG lot would
Name of Applicant/Sponsor:	Telephone:	
East Point Energy c/o Scott Connuck	E-Mail: sconnuck@eastpointenergy.com	
Address: 310 4th Street NE, 3rd Floor		
City/PO: Charlottesville	State: VA	Zip Code: 22902
Project Contact (if not same as sponsor; give name and title/role):	Telephone: 845-225-9690	
Jeffrey J. Contelmo, P.E., Insite Engineering, Surveying & Landscape Architecture, P.C.	E-Mail: jcontelmo@insite-eng.com	
Address: 3 Garrett Place		
City/PO:	State:	Zip Code:
Carmel	NY	10512
Property Owner (if not same as sponsor):	Telephone:	
Miller Road, LLC c/o Nicole Stern	E-Mail:	
Address: 388 Route 6		
City/PO: Mahopac	State: NY	Zip Code:

B. Government Approvals

B. Government Approval assistance.)	s, Funding, or Spor	nsorship. ("Funding" includes grants, loans, ta	x relief, and any othe	r forms of financial
Government Entity		If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)	
a. City Counsel, Town Boa or Village Board of Trus				
b. City, Town or Village Planning Board or Comr	✓ Yes□No mission	Planning Board - Site Plan Approval, Subdivision approval		
c. City, Town or Village Zoning Board of	□Yes ☑ No Appeals			
d. Other local agencies	Z Yes□No	Building Permit Town Wetland Permit Permit		
e. County agencies	<u></u> Yes ∠ No			
f. Regional agencies	Z Yes□No	NYCDEP SWPPP Acceptance		
g. State agencies	∠ Yes□No	NYSDEC GP-0-20-001 Coverage; NYSDEC Freshwater Wetlands Permit; NYS Public Service Commission Section 68Certificate of Public Convenience and Need		
h. Federal agencies	Z Yes□No	ACOE Permitting Wetland Fill Permit		
i. Coastal Resources.i. Is the project site with	hin a Coastal Area, o	or the waterfront area of a Designated Inland Wa	aterway?	□Yes ∠ No
ii. Is the project site locaiii. Is the project site with		with an approved Local Waterfront Revitalization Hazard Area?	on Program?	☐ Yes ☑ No ☐ Yes ☑ No
C. Planning and Zoning				
C.1. Planning and zoning				
only approval(s) which mu • If Yes, complete s	est be granted to enal ections C, F and G.	mendment of a plan, local law, ordinance, rule oble the proposed action to proceed? In plete all remaining sections and questions in Particle 1.		∐Yes ⊠ No
C.2. Adopted land use pla	ns.			
a. Do any municipally- ado where the proposed actio	•	lage or county) comprehensive land use plan(s)	include the site	Z Yes□No
		ecific recommendations for the site where the pr	roposed action	□Yes ☑ No
		ocal or regional special planning district (for exatted State or Federal heritage area; watershed n		∠ Yes□No
c. Is the proposed action lo or an adopted municipal If Yes, identify the plan(s):		ially within an area listed in an adopted municipn plan?	oal open space plan,	∐Yes √ No

C.3. Zoning	
a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. If Yes, what is the zoning classification(s) including any applicable overlay district? Commercial / Business Park	∠ Yes□No
b. Is the use permitted or allowed by a special or conditional use permit?	∠ Yes No
c. Is a zoning change requested as part of the proposed action?If Yes,i. What is the proposed new zoning for the site?	☐ Yes Z No
C.4. Existing community services.	
a. In what school district is the project site located? Carmel Central School District	
b. What police or other public protection forces serve the project site? Carmel Police Department	
c. Which fire protection and emergency medical services serve the project site? Mahopac Fire District	
d. What parks serve the project site? Empire State Trail, Donald J. Trump State Park, Baldwin Meadows Park	
D. Project Details	
D.1. Proposed and Potential Development	
a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, components)? Industrial / Utility	include all
b. a. Total acreage of the site of the proposed action? 1.6±, 0.4 & 93.5± acres	
b. Total acreage to be physically disturbed? 18.0± acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 95.5± acres	
c. Is the proposed action an expansion of an existing project or use? i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, square feet)? % Units:	☐ Yes No housing units,
d. Is the proposed action a subdivision, or does it include a subdivision?	Z Yes □No
If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) Lot line adjustments for industrial / utility & commercial use.	
ii. Is a cluster/conservation layout proposed?	□Yes ☑ No
iii. Number of lots proposed?3iv. Minimum and maximum proposed lot sizes? Minimum4.3 Maximum12.3	
e. Will the proposed action be constructed in multiple phases? i. If No, anticipated period of construction: ii. If Yes: 12-18 months	□Yes ☑ No
 Total number of phases anticipated Anticipated commencement date of phase 1 (including demolition) month year Anticipated completion date of final phase month year Generally describe connections or relationships among phases, including any contingencies where progress determine timing or duration of future phases: 	

	t include new resid				☐Yes Z No
If Yes, show num	bers of units propo				
	One Family	Two Family	Three Family	Multiple Family (four or more)	
Initial Phase					
At completion					
of all phases					
g. Does the propo	sed action include	new non-residentia	al construction (inclu	ding expansions)?	Z Yes□No
If Yes,		110 11 11011 1 00100011111		ang inputeres).	
	of structures 180				
ii. Dimensions (in feet) of largest p	roposed structure:		width; and 60' length	
iii. Approximate	extent of building	space to be heated	or cooled:	108,000 square feet	
				result in the impoundment of any	□Yes Z No
	s creation of a wate	r supply, reservoir,	pond, lake, waste la	goon or other storage?	
If Yes,					
i. Purpose of the	impoundment:oundment, the prin	ainal aaymaa af tha	···atam Γ	Ground water Surface water stream	ma DOthan anaifu
ii. II a water imp	oundment, the prin	cipal source of the	water:	_ Ground water _ Surface water stream	msOther specify:
iii. If other than v	vater, identify the ty	ype of impounded/o	contained liquids and	I their source.	
			-		
iv. Approximate	size of the propose	d impoundment.	Volume:	million gallons; surface area:height;length	acres
v. Dimensions o	f the proposed dam	or impounding str	ucture:	height; length	
vi. Construction	method/materials 1	for the proposed da	m or impounding str	ructure (e.g., earth fill, rock, wood, cond	crete):
D.2. Project Op	erations				
a. Does the propo	sed action include	anv excavation, mi	ning, or dredging, di	uring construction, operations, or both?	∏Yes ✓No
				or foundations where all excavated	
materials will r	emain onsite)				
If Yes:					
<i>i</i> . What is the pu	rpose of the excava	ation or dredging?		b be removed from the site?	
ii. How much ma	terial (including ro	ck, earth, sediment	s, etc.) is proposed to	be removed from the site?	
• Volume	(specify tons or cu	bic yards):			
Over wh iii Describe natur	iai duraiion oi iime re and characteristi	(cs of materials to b	e everysted or drede	ged, and plans to use, manage or dispose	e of them
iii. Deserroe natu	re and characteristi	es of materials to o	e excavated of dredg	sed, and plans to use, manage of disposi	e or them.
	onsite dewatering				☐Yes☐No
If yes, descri	be				
v What is the to	tal area to be dredg	red or excavated?		acres	
			time?	acres	
vii. What would b	e the maximum de	pth of excavation of	or dredging?	feet	
	vation require blas		c c		□Yes□No
ix. Summarize sit	e reclamation goals	and plan:			
				crease in size of, or encroachment	✓ Yes No
	ng wetland, waterb	oay, shoreline, bea	ch or adjacent area?		
If Yes: i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic					
				e for access to the site.	
		O TOMANIA I ZO MIM	accordated materiolation		

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of stalteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square fee A culvert and headwall would be constructed to allow for access to the site from Miller Road. The action would r of about 3,000 sf of the wetland. ACOE permitting will be sought for this part of the project. Other portions of the some disturbance within the 100 adjacent area, but these disturbances would primarily be for the construction of management practices. A NYSDEC Freshwater Wetlands Permit will be sought for these disturbances.	t or acres: esult in disturbance e site would create
iii. Will the proposed action cause or result in disturbance to bottom sediments?	✓ Yes □No
If Yes, describe: Culvert and headwalls to be constructed. iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? If Yes: acres of aquatic vegetation proposed to be removed: 3,000 sf±	✓ Yes No
 expected acreage of aquatic vegetation remaining after project completion: 42.8±ac purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): Crossing for access 	cess to the site.
proposed method of plant removal: Mechanical	
if chemical/herbicide treatment will be used, specify product(s): v. Describe any proposed reclamation/mitigation following disturbance: Wetland Mitigation will be provided per A	ACOE.
c. Will the proposed action use, or create a new demand for water?	□Yes Z No
If Yes:	
i. Total anticipated water usage/demand per day: gallons/dayii. Will the proposed action obtain water from an existing public water supply?If Yes: gallons/day	∐Yes ∐No
Name of district or service area:	
 Does the existing public water supply have capacity to serve the proposal? 	☐ Yes☐ No
• Is the project site in the existing district?	☐ Yes☐ No
Is expansion of the district needed?	□Yes□No
• Do existing lines serve the project site?	☐Yes☐No
iii. Will line extension within an existing district be necessary to supply the project?	□Yes □No
If Yes: • Describe extensions or capacity expansions proposed to serve this project: ———————————————————————————————————	
• Source(s) of supply for the district:	
<i>iv.</i> Is a new water supply district or service area proposed to be formed to serve the project site? If, Yes:	☐ Yes☐No
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
 Proposed source(s) of supply for new district: v. If a public water supply will not be used, describe plans to provide water supply for the project: 	
v. If a public water supply will not be used, describe plans to provide water supply for the project:	
vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: gallons	s/minute.
d. Will the proposed action generate liquid wastes? If Yes:	☐ Yes Z No
 i. Total anticipated liquid waste generation per day: gallons/day ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all composition approximate volumes or proportions of each): 	
iii. Will the proposed action use any existing public wastewater treatment facilities? If Yes:	□Yes □No
Name of wastewater treatment plant to be used: Name of district:	
 Name of district: Does the existing wastewater treatment plant have capacity to serve the project? 	Yes □No
 Is the project site in the existing district? 	☐ Yes ☐No
 Is expansion of the district needed? 	☐ Yes ☐No
parameter of the district needed.	

 Do existing sewer lines serve the project site? 	□Yes □No
 Will a line extension within an existing district be necessary to serve the project? 	□Yes □No
If Yes:	
 Describe extensions or capacity expansions proposed to serve this project: 	
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site?	□Yes□No
If Yes:	
 Applicant/sponsor for new district: Date application submitted or anticipated: 	
Date application submitted or anticipated:	
What is the receiving water for the wastewater discharge?	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including spec	ifying proposed
receiving water (name and classification if surface discharge or describe subsurface disposal plans):	
vi. Describe any plans or designs to capture, recycle or reuse liquid waste:	
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point	Z Yes □ No
sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point	
source (i.e. sheet flow) during construction or post construction?	
If Yes:	
i. How much impervious surface will the project create in relation to total size of project parcel?	
56,120 Square feet or1.3 acres (impervious surface)	
4,142,137 Square feet or 95.1 acres (parcel size)	
ii. Describe types of new point sources. Battery enclosure structures.	
iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent p	roperties,
groundwater, on-site surface water or off-site surface waters)?	
Proposed stormwater management practices	
If to surface waters, identify receiving water bodies or wetlands:	
11 to surface waters, identify receiving water bodies of wetlands.	
Will stormwater runoff flow to adjacent properties?	☐ Yes ✓ No
<i>iv.</i> Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel	□Yes Z No
combustion, waste incineration, or other processes or operations?	
If Yes, identify:	
i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	
iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)	
- Will and the minimum and in D.2 f (above) and in	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit?	□Yes Z No
If Yes: i Is the project site lecoted in an Air quality non attainment area? (Area routinely or periodically fails to meet	□Yes□No
i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	□ i es□ino
ambient air quality standards for all or some parts of the year)	
ii. In addition to emissions as calculated in the application, the project will generate:	
•Tons/year (short tons) of Carbon Dioxide (CO ₂)	
•Tons/year (short tons) of Nitrous Oxide (N ₂ O)	
•Tons/year (short tons) of Perfluorocarbons (PFCs)	
•Tons/year (short tons) of Sulfur Hexafluoride (SF ₆)	
•Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)	
Tons/year (short tons) of Hazardous Air Pollutants (HAPs)	

h. Will the proposed action generate or emit methane (includent landfills, composting facilities)? If Yes:		∐Yes ∏ No
i. Estimate methane generation in tons/year (metric):ii. Describe any methane capture, control or elimination melectricity, flaring):	neasures included in project design (e.g., combustion to go	enerate heat or
i. Will the proposed action result in the release of air pollut quarry or landfill operations? If Yes: Describe operations and nature of emissions (e.g., describe)	•	∏Yes ∏ No
 j. Will the proposed action result in a substantial increase in new demand for transportation facilities or services? If Yes: i. When is the peak traffic expected (Check all that apply Randomly between hours of	e): Morning Evening Weekend	Yes . No
 iii. Parking spaces: Existing	ng? isting roads, creation of new roads or change in existing available within ½ mile of the proposed site? portation or accommodations for use of hybrid, electric	□Yes□No
 k. Will the proposed action (for commercial or industrial proposed for energy? If Yes: i. Estimate annual electricity demand during operation of ii. Anticipated sources/suppliers of electricity for the projectother): 	the proposed action:	Yes No
 iii. Will the proposed action require a new, or an upgrade, t l. Hours of operation. Answer all items which apply. i. During Construction: Monday - Friday: 8:00 am - 6:00 pm Saturday: Sunday: Holidays: None None	ii. During Operations: Monday - Friday: Saturday: Sunday: Holidays:	

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction,	✓ Yes □No
operation, or both? If yes:	
i. Provide details including sources, time of day and duration:	
During construction: Typical construction and earthwork noise. During Operation: Sound from HVAC system.	
ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen?	∠ Yes □ No
Describe: Tree removal as needed. Developed area to receive evergreen plantings to mitigate sound.	
n. Will the proposed action have outdoor lighting?	✓ Yes □ No
If yes:	105 110
i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	
Downward facing site lighting, provided for security and safety. Lighting will be limited, motion sensor operated, and dark sky of	ompliant.
ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen?	Z Yes □No
Describe: Tree removal as needed. Developed area to receive evergreen plantings to mitigate light.	
o. Does the proposed action have the potential to produce odors for more than one hour per day?	☐ Yes Z No
If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest	
occupied structures:	
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage?	☐ Yes Z No
If Yes:	
i. Product(s) to be stored	
ii. Volume(s) per unit time (e.g., month, year)	
iii. Generally, describe the proposed storage facilities:	
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation?	☐ Yes ☑ No
If Yes:	
i. Describe proposed treatment(s):	
ii. Will the proposed action use Integrated Pest Management Practices?	☐ Yes ☐No
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal	☐ Yes ☑ No
of solid waste (excluding hazardous materials)? If Yes:	
<i>i.</i> Describe any solid waste(s) to be generated during construction or operation of the facility:	
• Operation : tons per (unit of time)	
 Construction: tons per (unit of time) Operation: tons per (unit of time) ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste 	:
• Construction:	
• Operation:	
• Operation:	
iii. Proposed disposal methods/facilities for solid waste generated on-site:	
• Construction:	
Operation:	

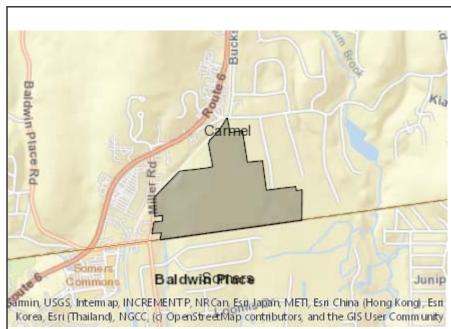
	the proposed action include construction or modi	fication of a solid waste man	agement facility?	☐ Yes ✓ No
oth	pe of management or handling of waste proposed ner disposal activities):	for the site (e.g., recycling or	transfer station, composting	g, landfill, or
•	ticipated rate of disposal/processing: Tons/month, if transfer or other non-comparison or thermal to the comparison of the compari	treatment	t, or	
	andfill, anticipated site life:			
t. Will to waste If Yes:	he proposed action at the site involve the commer	rcial generation, treatment, st	orage, or disposal of hazard	lous ∏Yes ∏ No
	ne(s) of all hazardous wastes or constituents to be	generated, handled or manag	ged at facility:	
ii. Gen	nerally describe processes or activities involving h	nazardous wastes or constitue	nts:	
iii. Spe iv. Des	ecify amount to be handled or generatedto	ons/month ycling or reuse of hazardous	constituents:	
	ll any hazardous wastes be disposed at an existing provide name and location of facility:			□Yes□No
If No: d	escribe proposed management of any hazardous	wastes which will not be sent	to a hazardous waste facili	ty:
E. Site	and Setting of Proposed Action			
E.1. La	and uses on and surrounding the project site			
i. Che ☐ Urba ☑ Fore	ing land uses. eck all uses that occur on, adjoining and near the an Industrial Commercial Residust Agriculture Aquatic Other mix of uses, generally describe:		l (non-farm)	
b. Land	uses and covertypes on the project site.			
	Land use or	Current	Acreage After	Change
	Covertype	Acreage	Project Completion	(Acres +/-)
sur	ads, buildings, and other paved or impervious faces	0.4 ac	9.2 ac±	+8.8 ac
	rested	52.8 ac±	34.8 ac±	-18 ac
agr	eadows, grasslands or brushlands (non- ricultural, including abandoned agricultural)	0 ac	0 ac	No Change
(in	ricultural cludes active orchards, field, greenhouse etc.)	0 ac	0 ac	No Change
	rface water features kes, ponds, streams, rivers, etc.)	0 ac	0 ac	No Change
• We	etlands (freshwater or tidal)	42.3± ac	42.3± ac	Less than 0.1ac change
• No	n-vegetated (bare rock, earth or fill)	0 ac	0 ac	No Change
• Oth De	her scribe: Stormwater Management Practices Lawn/meadow/landscape-buffers	0 AC 0 AC	2.2 ± ac 7 ± ac	+2.2 ± ac +7 ± ac

day care centers, or group homes) within 1500 feet of the project site? Yes. i. Identify Facilities: Creative Kids Chidicare Center Does the project site contain an existing dam? Yes. Does the project site contain an existing dam? Yes. Dam height: Dam height: Dam length: Surface area: Dam length: Dam's existing hazard classification: Iii. Provide date and summarize results of last inspection: Iii. Provide date and summarize results of last inspection: Yes. I. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility? Yes. No or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes, cite sources/documentation: III. Describe the location of the project site relative to the boundaries of the solid waste management facility: III. Describe any development constraints due to the prior solid waste activities: Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes: I. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: In Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? If yes: I. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Press: In Insurportion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Pres	Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? If Yes, i. Identify Facilities: Creative Kids Childcare Center Does the project site contain an existing dam? If Yes: i. Dimensions of the dam and impoundment: Does the project site contain an existing dam? If Yes: i. Dimensions of the dam and impoundment: Dam height: Dam height: Dam length: Dam length: Dam sexisting hazard classification: iii. Provide date and summarize results of last inspection: I. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? If Yes: I. Has the facility been formally closed? If Yes, it is sources/documentation: II. Describe the location of the project site relative to the boundaries of the solid waste management facility: III. Describe any development constraints due to the prior solid waste activities: J. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes: J. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? If Yes: J. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes – Spills Incidents database Provide DEC ID number(s): Neither database Provide DEC ID number(s): If site has been subject of RCRA corrective activities, describe control measures:	Yes☑No
f Yes: i. Dimensions of the dam and impoundment: • Dam height: • Dam length: • Dam length: • Surface area: • Volume impounded: gallons OR acre-feet ii. Dam's existing hazard classification: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Provide date and summarize results of last inspection: iii. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? f Yes: i. Has the facility been formally closed? • If yes, cite sources/documentation: iii. Describe the location of the project site relative to the boundaries of the solid waste management facility: iii. Describe any development constraints due to the prior solid waste activities: iii. Describe any development constraints due to the prior solid waste activities: iii. Describe any development constraints due to the prior solid waste activities: iii. Describe wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? f Yes: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: iii. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: ives Ves No remedial actions been conducted at or adjacent to the proposed site? f Yes: Ves Spills Incidents database Provide DEC ID number(s): Yes No Remediation database Provide DEC ID number(s): Yes No Remediation database Provide DEC ID number(s): Ves Spills Incidents database Provide DEC ID number(s): Ves No Remediation database Provide DEC ID number(s): Ves No Remediation database Provide DEC ID number(s): Ves No Remediation database Provide DEC I	if Yes: i. Dimensions of the dam and impoundment: Dam leight: Dam leight: Dam length: Da	Yes∏No
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☐ Yes - Spills Incidents database Provide DEC ID number(s): ☐ Yes - Environmental Site Remediation database Provide DEC ID number(s): ☐ Neither database If site has been subject of RCRA corrective activities, describe control measures: Itii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes☐No f yes, provide DEC ID number(s): 360023	☐ Yes - Spills Incidents database Provide DEC ID number(s): ☐ Yes - Environmental Site Remediation database Provide DEC ID number(s): ☐ Neither database If site has been subject of RCRA corrective activities, describe control measures: iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database?	Yes□No
Neither database i. If site has been subject of RCRA corrective activities, describe control measures: iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? If yes, provide DEC ID number(s): III. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? III. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database?	Neither database i. If site has been subject of RCRA corrective activities, describe control measures: iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ✓ Yes – Environmental Site Remediation database Provide DEC ID number(s):	
 Neither database i. If site has been subject of RCRA corrective activities, describe control measures: iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ✓ Yes No f yes, provide DEC ID number(s): 360023 	 i. If site has been subject of RCRA corrective activities, describe control measures: iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? 	
iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No f yes, provide DEC ID number(s): 360023	iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database?	
f yes, provide DEC ID number(s): 360023		
	1) - 5, P - 5 - 10 - 10 - 10 - 10 - 10 - 10 - 10	Yes□No
	iv. If yes to (i), (ii) or (iii) above, describe current status of site(s).	

v. Is the project site subject to an institutional control	• 1 1 1	☐Yes☑No
If yes, DEC site ID number:		
Describe the type of institutional control (e.g.	., deed restriction or easement):	
Describe any use fillitations: Describe any engineering controls:		
Will the project affect the institutional or eng	gineering controls in place?	□Yes□No
Explain:		
E.2. Natural Resources On or Near Project Site		
a. What is the average depth to bedrock on the project	site? <u>6.5</u> feet	
b. Are there bedrock outcroppings on the project site?		☐ Yes Z No
If Yes, what proportion of the site is comprised of bed	rock outcroppings?%	
c. Predominant soil type(s) present on project site:	Paxton Fine Sandy Loam, 3-8% slopes 33	%
	Ridgebury Complex, 0-8% slopes 35	
	Woodbridge Loam, 3-8% slopes 11	%
d. What is the average depth to the water table on the p	project site? Average:2 feet	
e. Drainage status of project site soils: Well Drained	d: <u>35</u> % of site	
	Well Drained: 11% of site	
— ·	<u>54</u> % of site	
f. Approximate proportion of proposed action site with		
	☑ 10-15%: <u>15</u> % of site	
	✓ 15% or greater: <u>12</u> % of site	
g. Are there any unique geologic features on the project		☐ Yes Z No
If Yes, describe:		
h. Surface water features.		
i. Does any portion of the project site contain wetland	ds or other waterbodies (including streams, rivers,	✓ Yes No
ponds or lakes)? ii. Do any wetlands or other waterbodies adjoin the pr	roject site?	Z Yes□No
If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i.	oject site:	V 1 CS_1NO
iii. Are any of the wetlands or waterbodies within or a	adjoining the project site regulated by any federal.	✓ Yes □No
state or local agency?	agoning the project site regulated by any reading,	 1 6 5 1 10
	dy on the project site, provide the following information:	
• Streams: Name	Classification	
Lakes or Ponds: Name	Classification Approximate Size NY	0.14/
 Wetlands: Name Federal Waters, NYS Wetland No. (if regulated by DEC) F-26 	Wetland, Federal Waters Approximate Size NY	S vvetland (in a
v. Are any of the above water bodies listed in the mos	t recent compilation of NYS water quality-impaired	☐Yes Z No
waterbodies?	vicesia compilation of the compilation and quantity impanted	
If yes, name of impaired water body/bodies and basis	for listing as impaired:	
i. Is the project site in a designated Floodway?		□Yes ☑ No
j. Is the project site in the 100-year Floodplain?		□Yes Z No
k. Is the project site in the 500-year Floodplain?		□Yes ☑ No
l. Is the project site located over, or immediately adjoint If Yes:	ning, a primary, principal or sole source aquifer?	□Yes ☑ No
i. Name of aquifer:		
1		

m. Identify the predominant wildlife species that occupy or use the proje Fauna typical to northeast forest and wetlands.	ect site:	
n. Does the project site contain a designated significant natural communit If Yes: i. Describe the habitat/community (composition, function, and basis for		□Yes ☑ No
 ii. Source(s) of description or evaluation: iii. Extent of community/habitat: Currently: Following completion of project as proposed: Gain or loss (indicate + or -): o. Does project site contain any species of plant or animal that is listed by endangered or threatened, or does it contain any areas identified as hab If Yes: i. Species and listing (endangered or threatened): 	acres acres acres y the federal government or NYS as itat for an endangered or threatened spec	√ Yes□No ies?
Northern Long-eared Bat		
p. Does the project site contain any species of plant or animal that is listed special concern? If Yes: i. Species and listing:		□Yes □ No
q. Is the project site or adjoining area currently used for hunting, trapping If yes, give a brief description of how the proposed action may affect that		∐Yes Z No
E.3. Designated Public Resources On or Near Project Site		
a. Is the project site, or any portion of it, located in a designated agriculture Agriculture and Markets Law, Article 25-AA, Section 303 and 304? If Yes, provide county plus district name/number:	•	∐Yes Z No
b. Are agricultural lands consisting of highly productive soils present? i. If Yes: acreage(s) on project site? ii. Source(s) of soil rating(s):		∐Yes ∏ No
c. Does the project site contain all or part of, or is it substantially contigued Natural Landmark? If Yes: i. Nature of the natural landmark:	☐ Geological Feature	∐Yes Z No
d. Is the project site located in or does it adjoin a state listed Critical Envi If Yes: i. CEA name: Baldwin Place Area	ironmental Area?	✓ Yes No
ii. Basis for designation: Difficulties w/ portable water sourceiii. Designating agency and date: Agency:Somers, Town of, Date:9-26-90		

e. 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 Commission Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Platf Yes:	
i. Nature of historic/archaeological resource: ☐Archaeological Site ☐Historic Building or District ii. Name:	
iii. Brief description of attributes on which listing is based:	
f. 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?	✓ Yes No
g. Have additional archaeological or historic site(s) or resources been identified on the project site? If Yes: i. Describe possible resource(s):	∏Yes ∏ No
ii. Basis for identification:	
h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? If Yes:	✓ Yes No
 i. Identify resource: Empire Trail ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or etc.): State Trail 	scenic byway,
iii. Distance between project and resource:	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? If Yes:	☐ Yes Z No
i. Identify the name of the river and its designation:ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	∐Yes∏No
F. Additional Information Attach any additional information which may be needed to clarify your project. If you have identified any adverse impacts which could be associated with your proposal, please describe those immeasures which you propose to avoid or minimize them.	npacts plus any
G. Verification I certify that the information provided is true to the best of my knowledge.	
Applicant/Sponsor Name Richard D. Williams, Jr, P.E. Date revised 1/29/24 Insite Engineering, Surveying & Landscape Architecture, P.C.	
Signature Title Senior Principal Engineer	

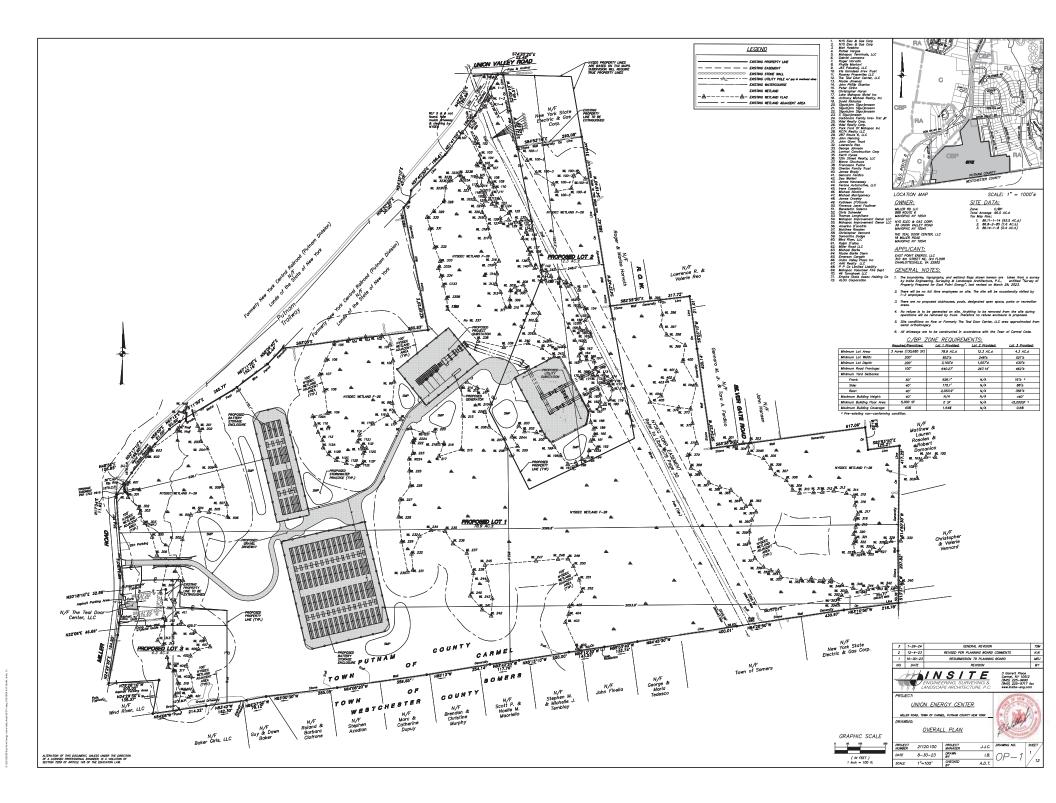


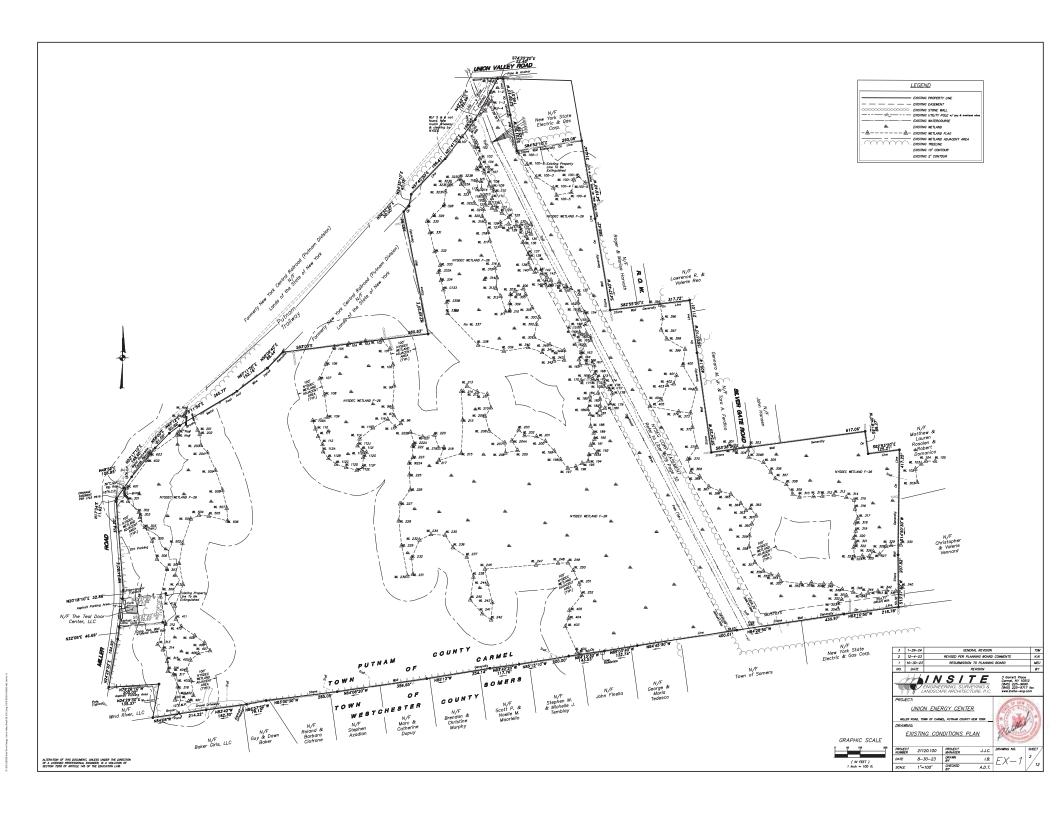
Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the 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.

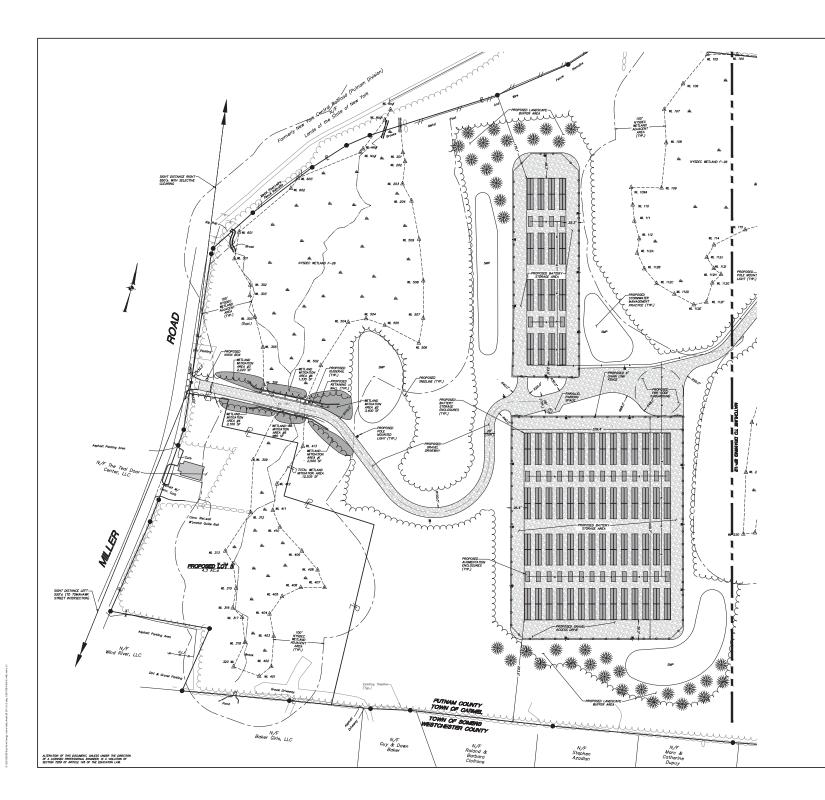


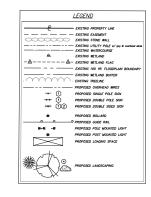
B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYC Watershed Boundary
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	360023
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters, NYS Wetland
E.2.h.iv [Surface Water Features - Wetlands Size]	NYS Wetland (in acres):322.1, NYS Wetland (in acres):42.8
E.2.h.iv [Surface Water Features - DEC Wetlands Number]	F-26
E.2.h.v [Impaired Water Bodies]	No

E.2.i. [Floodway]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.j. [100 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.k. [500 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.I. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Northern Long-eared Bat
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	Yes
E.3.d [Critical Environmental Area - Name]	Baldwin Place Area
E.3.d.ii [Critical Environmental Area - Reason]	Difficulties w/ portable water source
E.3.d.iii [Critical Environmental Area – Date and Agency]	Agency:Somers, Town of, Date:9-26-90
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No









KEY	BOTANICAL/COMMON NAME	SIZE	ROOT
	EVERGREEN TREES		
N	Juniperus virginia / Eastern Redcedar	8"-10" HT.	B&B
PG	Picea glauca / White Spruce	8'-10' HT.	BAB
TO	Relocated Thuja occidentalls / Arborvitae	6'-8' HT.	848
	SHRUBS		
JC	Juniperus chinensis "Sea Green" / Sea Green Juniper		#3 CONT./6' C
WD	Viburnum dentatum / Leatherleaf Viburnum		#3 CONT./6" C
	PERENNIALS/GROUND COVERS		
AC	Aquillegia canadensis / Columbine		#1 CONT./18"
EP	Echinacea purpurea / Purple Coneflower		#T CONT./18"
MV	Mertensia virginica / Virginia Bluebella		AT CONT./18"

QTY	BOTANICAL/COMMON NAME	SIZE	SPACING
35	Amelanchier canadenals / Shadblow	2'-3'	10° a.c.
36	Cornus foeming / Gray Dogwood	2'-3'	10° a.c.
37	Lindera benzoin / Spicebush	2'-3'	10° a.c.
35	Sambucus canadensis / Elderberry	2'-3'	10° a.c.
36	Viburnum dentatum / Arrowood viburnum	2'-3'	10° a.c.
35	Viburnum lentago / Nannyberry	2'-3'	10' 0.0

- 2. All plantings shall be installed per size of the Town of Cormel Town Code.

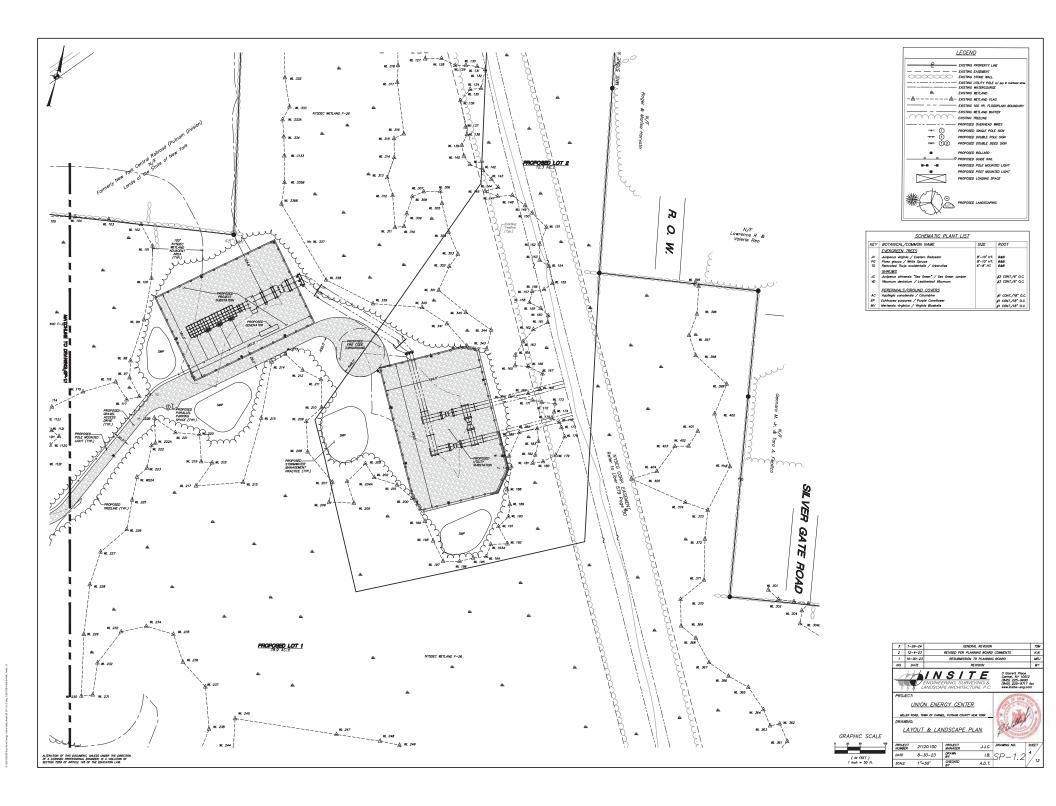
REVISED PER PLANNING BOARD COMMENTS RESUBMISSION TO PLANNING BOARD INSITE

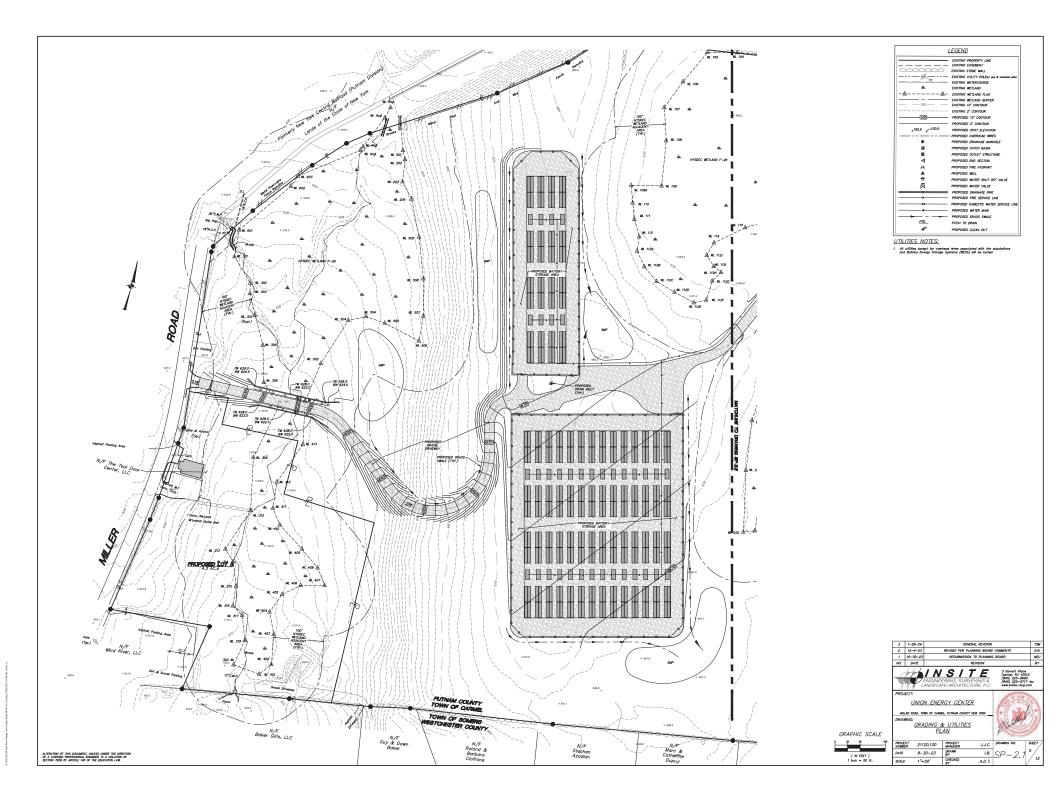
UNION ENERGY CENTER

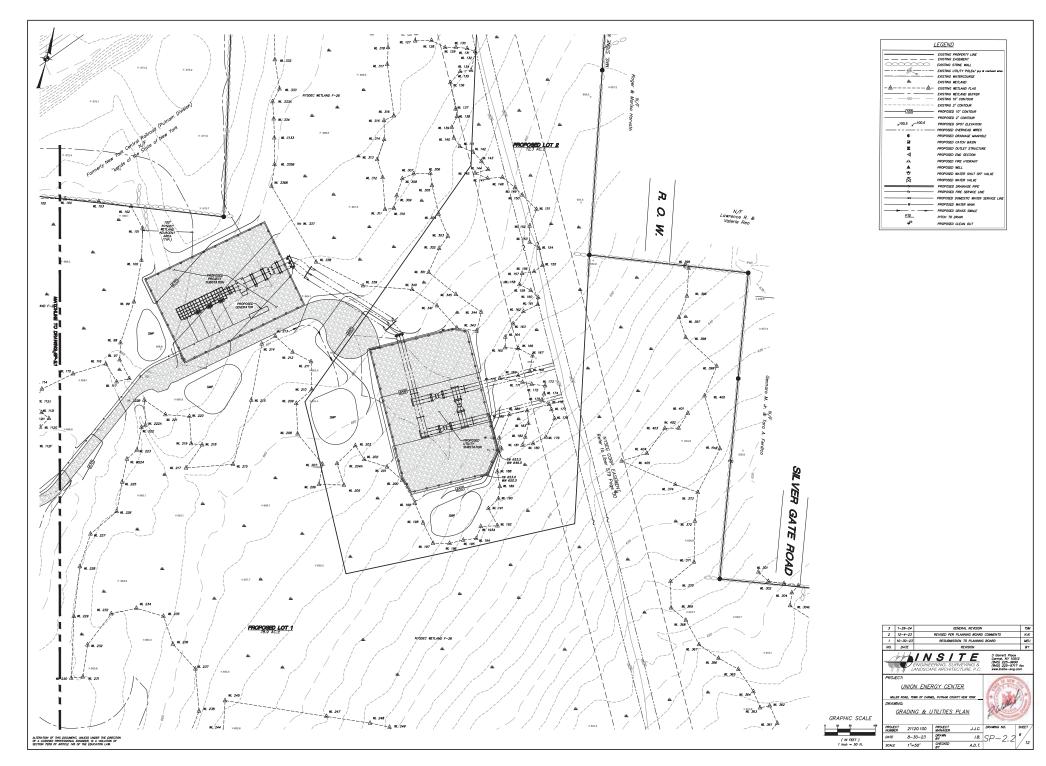
LAYOUT & LANDSCAPE PLAN GRAPHIC SCALE

(IN FEET) 1 Inch = 50 ft.

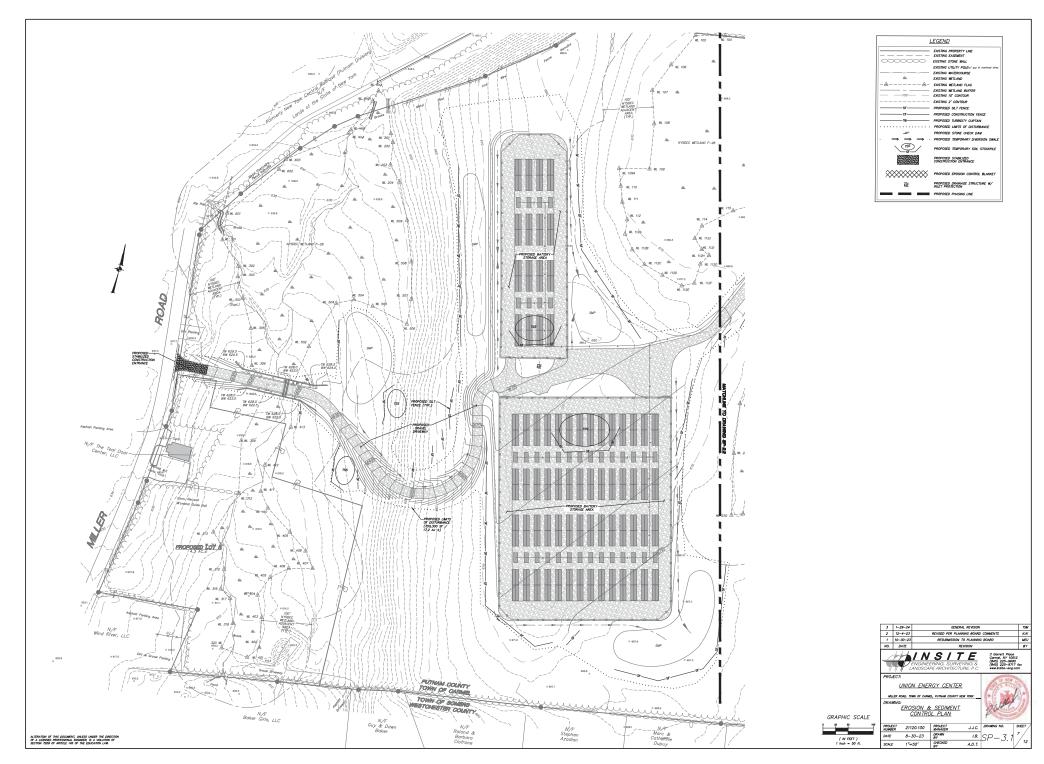
21120.10	O PROJECT MANAGER	YYC.	DRAWING NO.	SHEET
8-30-23	DRAWN BY	I.B.	SP-1.1	3/
1"-50"	CHECKED	A.D.T.		/ 12



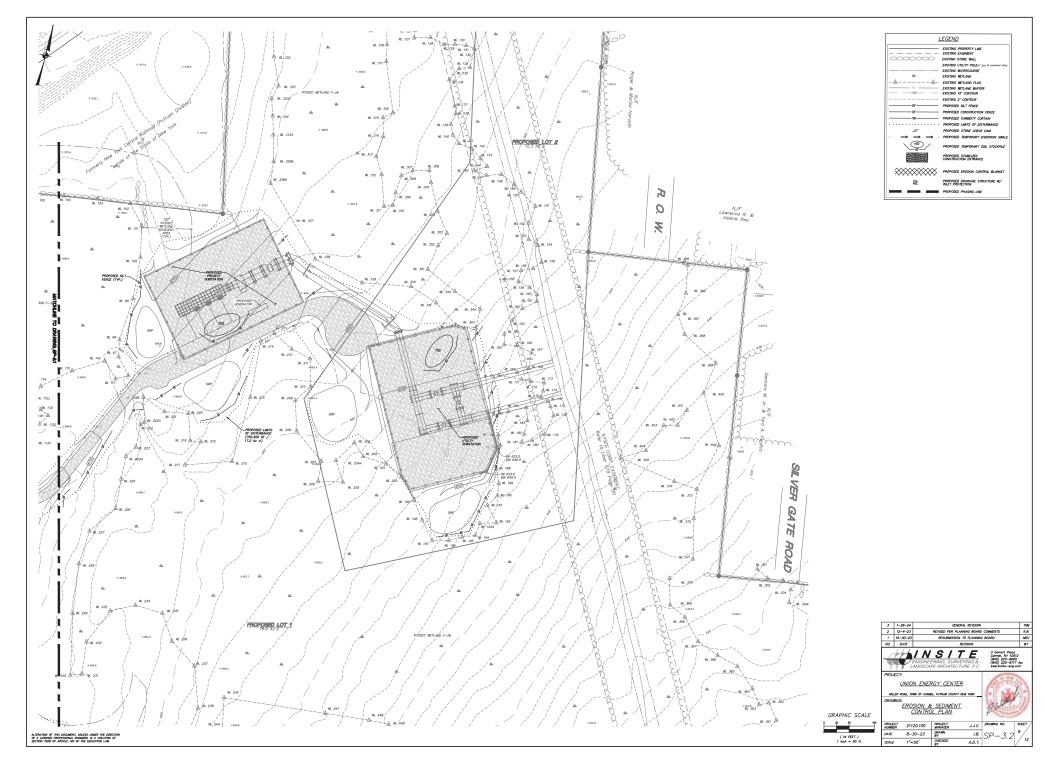




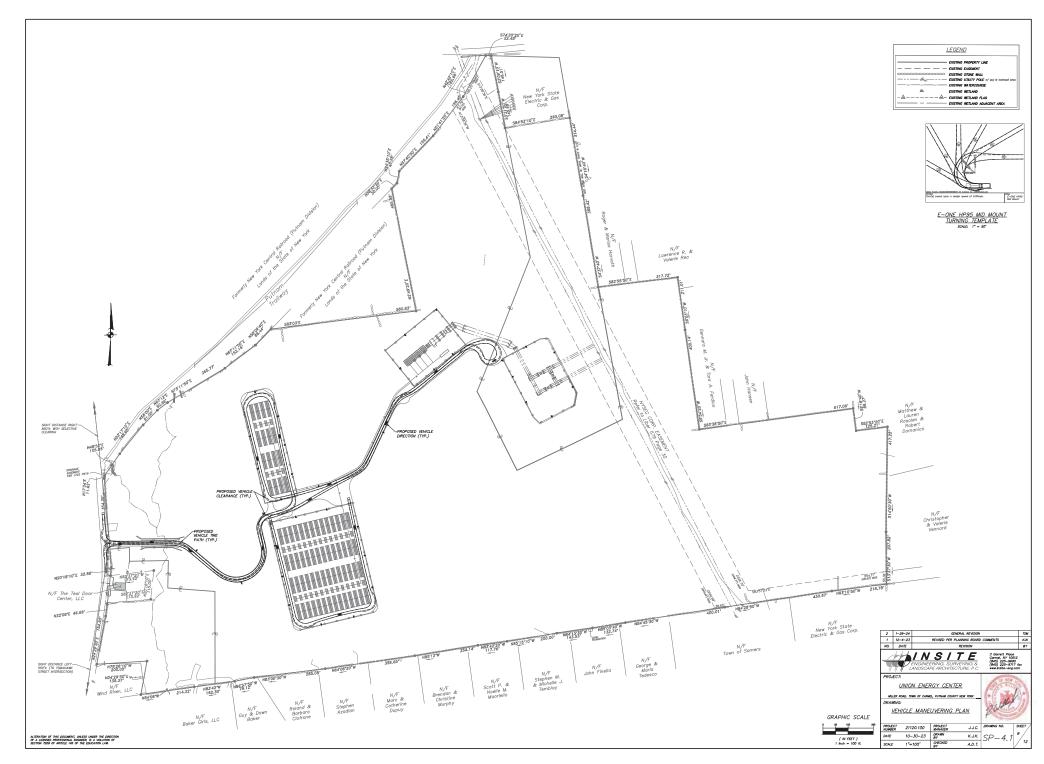
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Z.) EXIIIXXXXX Earl Fear Everys, Uses + Velicy Smeth (6: 18-13-3 Z.drsg, 1/19/2004 6: 20 to AM, vol. 5s. 3s.



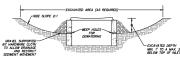
Z/10/330000 East for air Energy , Union Villay Smith 06 (84-43-4-52 eng 3/29/2004 8-2043 AN mill 5, 33

LUMINAIRE SCHEDULE Sym City Catalog Mumber LED 34 RSX2 LED P1 30K R3 EGFV LITHONIA LIGHTING LED POLE MOUNTED LIGHT TYPE 3M DISTRIBUTION 20"-0" LEGEND - FORTING PROPERTY LINE Style and finish of all luminaires owner. EXISTING WETLAND 3. Proposed lights will run on motion hours for security only. EXISTING WETLAND FLAG All light fixtures to be full cutoff to comply with dark sky guidelines. LIGHT CONTOUR LEGEND 0.1 0.10 Foot Condies 1 1.00 Foot Condies THE REAL PROPERTY. 20 geo 300 '00 '00 '00 '00 '00 '00 29 geo 30 '00 '00 '00 '00 '00 '00 6,6 to 6,70 to 100 to 0 to 0 +0.0 00 00 to 0.1 +0.0 02 05 09 08 08 02 05 09 08 08 0 03 13 38 27 03 0 01 05 00 00 00 INSITE UNION ENERGY CENTER LIGHTING PLAN GRAPHIC SCALE
 PROJECT NUMBER
 21120.100
 PROJECT MANAGER

 DATE
 10-30-23
 DRAWN BY
 J.J.C. к.ик. SP-4.2 (IN FEET) 1 Inch = 60 ft.

A.D.T.





- 2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN
- 3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL
- 4. UPON STABILIZATION OF CONTRIBUTING DRAWAGE AREA, SEAL WEEF HOLES, FUL EXCAVATION WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY, AND STABILIZE WITH PERMANENT SEEDING
- 5. MAXIMUM DRAINAGE AREA = 1 ACRE

EXCAVATED DROP INLET PROTECTION DETAIL

EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE MONITORING REQUIREMENTS MAINTENANCE REQUIREMENTS WEEKLY AFTER RAINFALL SILT FENCE BARRIER STABILIZED CONSTRUCTIO ENTRANCE Clean/Replace Stone and Fabric Remove UST CONTRO Mulching/ Spraying Water N/A *VEGETATIVE STABLISHMENT Inspect Inspect Water/Reseed/ Remulch Reseed to 80% Coverage Inspect Inspect Clean/Repair/ Replace Remove Inspect Remove Inspect Sit Fence Repa SWALES Inspect Inspect Clean/Mulch/ Repair Mow Permanent Grass/Replace/ Repair Rip Rap Inspect Clean/Replace CHECK DAMS Clean/Replace Clean Sumps/ Remove Debris/ Repair/Replace Inspect Clean Sumps/ Remove Debris/ Repair/Replace Inspect DRAINAGE PIPES Inspect Clean/Repair See Permanent Stormwater Facilities Maintenance Schedule on Drawing SP-3.1 Clean/Mulch/ Repair/Reseed

Permanent vegetation is considered stabilized when 80% of the plant density is established. Erosion control measures shall remain in place until all disturbed areas area permanently stabilized.

East Point Energy, LLC 310 4th Street NE 3rd Floor Charlottesville, VA 22902

and/or the current owner(s) of the subject property

REQUIRED POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICE COMPONENTS:

- Pursuant to the NYSQCC "SPGS Greend Permit for Stormwater Discharges from Construction Actify" (Co-4-2-2-01), all construction projects exceeding properties received to the standard permit and standard permit and standard permit and standard permit and standard five York State Stormwater Monogament Design Monat ("Desig Monat"). These participations of the standard permit and standard professional permit and standard professional standard in the Standard permit and standard pe
- Identification of all post-construction stormwater management practices to be constructed as part of the project; This plan, and details/hotes shown hereon serve to satisfy this SMPPP requirement.
- b. A site map/construction drawing(a) showing the specific location and size of each post-construction atomiseder management practice; This plan, and details/notes shown hereon serve to autisity this SWPPP requirement.
- soom networn service subury for Service requirement.

 A Stormender Modelskip and Analysis Report Including pre-development post-development conditions, the results of the stormenter modelskip, take demonstrating that each protective has been designed in conference abong criteria, identification of and justification for any development and abong criteria, identification of any design criteria that are not required, required analysis is provided in the report titled Amended Stormenter Prevention Plan for Elevantru Ulma of Committee.
- Soil testing results and locations. This SWPPP requirement is provided in the report titled Amended Stormwater Poliution Prevention Plan for Browner Living at
- An operations and maintenance plan that includes inspection and maintenan schedules and actions to ensure continuous and effective operation of each entity that all be responsible for the long term operation and entity that all be responsible for the long term operation and maintenance soch practice. The Fernancet Stormwater Facilities Maintenance Schedule provided on these plans serves to solicity this requirement.
- Demond Problems on the parts series to saving on requirement.

 Demond Problems of Branch of Studies 1, Sphing on Significan SQL 2005, of Studies 1, Sphing of Significant SQL 2005, of Studies 1, Sphing of Sphin

CONSTRUCTION SEQUENCE:

. Regin clearly and prabbing operations associated all the otherwy and encous. Stip and stockplate (speak on all for follow see it some and individuos encous. Regin construction of the drivency and encourser areas. Regin construction of the drivency and encourser areas. If the construction of the drivency and encourser areas. Upon completion of grading operations, leated Robbed drivency participes with the Tarkon and Seathment Control Motes controlled on this page.

EROSION & SEDIMENT CONTROL NOTES:

- The owner's field representative (C.F.R.) will be responsible for the implementation and maintenance of erasion and sediment control measures on this site prior to and during construction.

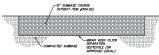
- When land is exposed during development, the exposure shall be kept to the shortest practical period of time. In the areas where and disturbance activity has temporarily by the end of the next business day and completed attiths seven (77) days from the date the current sail disturbance activity ceased. Disturbance shall be miximized to the areas required to perform construction.
- Sit fence shall be installed as shown on the plans prior to beginning any clearing, grubbing or earthwork.
- nee nor annum.

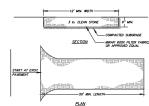
 Any delurated areas not subject to further delurations or construction traffic,
 Any delurated areas not subject to further delurations or construction traffic,
 processing the construction with a subtacle much within Eluciness day of rising
 process. All seeded orms to needed or morbisms 4° secretal (speak from including
 processing to the construction of the constru
- Cut or fill slopes 3:1 and steeper shall be stabilized immediately after grading with Curies I Shale Net Erosian Control Blanket, or approved equal.
- 9. Paved roadways shall be kept clean at all times.
- 10. The alte shall at all times be graded and maintained such that all stormwater runof is diverted to sail erosion and sediment control facilities.
- All storm drainage outlets shall be stabilized, as required, before the discharge points become operationsi.
- Stormeater from disturbed areas must be passed through erosion control barriers before discharge beyond disturbed areas or discharged into other drainage systems.
- 13. Design and sendment control measures shall be happected and mointained on a dail batch by the CLTA, to have that channels, temporary and permanent attaches and that all stress below and all females are intended to female that all stress below and all females are intact. Any follows of enables and all females are intact. Any follows of enables and selfment control measures shall be immediately reported by the contractor and happected for approval by the CLTA, and/or all the engineer.
- Dust shall be controlled by sprinkling or other approved methods as necessary, or as directed by the O.F.R.
- Cut and fills shall not endanger adjoining property, nor divert water onto the property of others.
- All file shall be placed and compacted in 6" lifts to provide stability of material and to prevent settlement.
- The O.F.R. shall inspect downstream conditions for evidence of sedimentation on a seekly books and after rainstorms.
- 18. As warranted by field conditions, special additional erosion and sediment control measures, as specified by the site engineer and/or the Town Engineer shall be installed by the contractor. Erosion and sediment control measures shall remain in place until all disturbed area are suitably stabilized.

REQUIRED EROSION CONTROL SWPPP CONTENTS:

Pursuant to the NYSQC "SYSQS General Permit for Stammaster Discharges from Construction Activity" (GP-0-20-20-01), at Stammaster Distillar Prevention Paris (GP-0-20-20-01), at Stammaster Politician Prevention Paris (GPP) and Internation accounts provides analysis of accordance Systems (GPP) and International Systems

- Background information: The subject project consists of the construction of a battery electric storage facility and two electrical substations
- b. Site map / construction drawing: These plans serve to satisfy this SMPPP





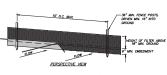
INSTALLATION NOTES 1. STONE SIZE - USE 3" STONE

- LENGTH AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMAL LENGTH WOULD APPLLY
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- MOTH 12 FOOT MINIMUM, BUT HOT LESS THAN THE FULL MOTH AT POINTS WHERE INDRESS OR EGRESS OCCUR. TWENTY FOUR (24) FOOT IF SINGLE ACCESS TO SITE.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESDERVE LOT.
- MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACONIC OR FLOWING OF SEDMENT ONTO PUBLIC RIGHT OF WAY THIS MAY REQUIRE PERSONC TOP DIRECTSING WITH ADDITIONAL STONE AS
- WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABULZED WITH STONE AND WHICH DRAINS INTO AN APPRIVATE STABULYST TRA
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION
ACCESS DETAIL

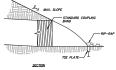


- A AREA CHOCKS FOR STOCKEN ELOCATION SHALL BE DRY AND STARLE
- 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
- UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE IMMEDIATELY SEEDED WITH K31 PERENNIAL TALL FESCUE.
- ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING INSTALLED ON THE DOWNGRADENT SIDE. TEMPORARY SOIL STOCKPILE DETAIL

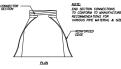




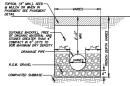
- WOVEN WHE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WHE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MADMAIN MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SX INCHES AND FOLDER, FILTER CLOTH SHALL BE DITHER FILTER X, MRRAFI TOXX, STABLINAK THON, OR APPROVED EQUIVALENT.
- 4. PREFABRICATED UNITS SHALL BE GEOFAB, ENWROFENCE, OR APPROVED EQUIVALENT. 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SET FENCE.
 - STANDARD SILT FENCE DETAIL



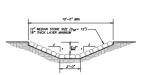




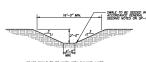
HDPE END SECTION DETAIL



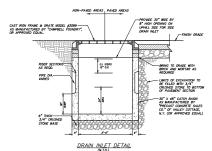
DRAINAGE LINE TRENCH DETAIL



RIP RAP SWALE DETAIL



GRASS SWALE TO BE LINED WITH CHANNEL LINER C-125 AS MANUFACTURED BY "NORTH AMERICAN GREEN" OR APPROVED EQUAL GRASS SWALE DETAIL



(STRUCTURE AND GRATE TO BE DESIGNED FOR H-20 LOADING)

REVISED PER PLANNING BOARD COMMENTS RESUBMISSION TO PLANNING BOARD 2 12-4-23 1 10-30-23

MINSITE

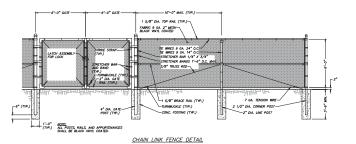
UNION ENERGY CENTER

DETAILS AND NOTES

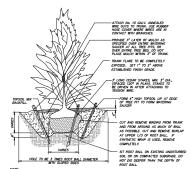
PROJECT 21120.100 PROJECT MANAGER J.J.C. 8-30-23 DRAW I.B. SCALE NTS A.D.T.

D-2

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2309 OF ARTICLE 148 OF THE FOLICATION LAW.

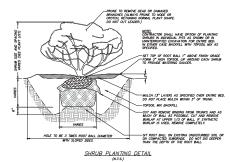


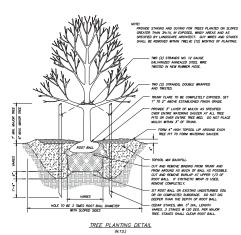
RETAINING WALL DETAIL

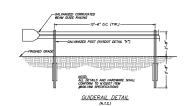


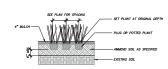
NOTE: PROVIDED STAND CUTTING FOR THEES PLANTED ON SLOPES GREATER PANY BY THE PLANTED ON SLOPES GREATER PANY BY THE PLANTED ON SLOPES GREATER AND AS SPECIFIED BY LANDSCAPE ARCRITICS. OUR WIRDS AND STANDS SHALL BE REMOVED WITHIN THELE MONTHS OF PLANTING.

EVERGREEN TREE PLANTING DETAIL

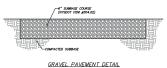




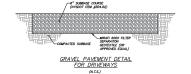




PERENNIAL / ORNAMENTAL GRASS PLANTING DETAIL



FOR ENCLOSURES (N.T.S.)



GENERAL PLANTING NOTES:

- All proposed plonting beds to receive a 12" min. depth of topsoil. Soil amendments and fertilizer application rates shall be determined based on specific testing of topsoil.
- Any new solls added will be amended as required by results of soil testing and placed using a method that will not cause compaction.
- No fertilizer shall be added in stormwater basin plantings. Nutrient requirements to be met by incorporation of acceptable organic matter.
- Plants shall conform with ANSI 280.1 American Standard for Nursery Stock in all ways including dimensions.
- All plants shall be grown under climate conditions similar to those in the locality of the project.
- Plants shall be planted in all locations designed on the plan or as staked in the field by the Landscape Architect.
- The location and layout of landscape plants shown on the site plan shall take precordence in any alterspancies between the quantities of plants shown on the plans and the quantity of plants in the Plant List.
- 10. Provide a 3" layer of shredded pine bark mulch (or as specified) over entire watering source at all tree pills or over entire planting bed. Do not place mulch within 3" of tree or shrub tranks.
- 11. All fonderage plantings shall be moistoined in a healthy condition of all times. Any dead or allessned plants shall immediately be replaced in kind by the contractor (during warrant) period or project owner.

GENERAL SITE SEEDING NOTES:

- All proposed seeded areas to receive 4" min, depth of topsoli. Soli amendments and fertilizer application rates shall be determined based on specific testing of topsoli material.
- 2. For temporary stabilization, apply annual regardes (Lollum perenne asp.) at 30 lbs/ acre.
- For temporary solutions, only others (registers (comm premise say, of x X all, other (Lipper Ring) and opinionems of (spend and any required and mendments, ones to extend seed interest of extend and premised and seeding notice. The comments of the conditions in the control of the mendments recommended rise subject (see a feeling expend of the mendments recommended rise subject (see a feeling expendition). The control of the recommended rise subject (see a feeling expendition) and the control of t

- access and areas sizes from mer Engine recorded Prints, mit, or interest set, Sheed Mirk glif for other disturbed excess not appetited as seed mirk gli or gl. Primarily for lam mess and moe stip doing roads at a rate of 100 lbs, per orne. Recharge Mines and Recharge Mines and Recharge Mines and Perennial Ripagosas 2005.
- Seed mixes to be planted between March 21 and May 20, or between August 15 and October 15 or as directed by project representative.
- Maich: Salt hay or small grain straw applied at a rate of 90 lbs./1000 S.F. or 2 tons/acre, to be applied and anchored occurring to "New York Standards and Specification For Draids and Selfment Control," Insets edition.



J.J.C. .в. D−1

A.D.T.

PROJECT 21120.100 PROJECT MANAGER

DATE 8-30-23 DRAWN
BY

SCALE AS SHOWN CHECKED



January 2, 2024 Revised January 17, 2024

Craig Paeprer Chairman & Members Of The Carmel Planning Board Town of Carmel 60 McAlpin Ave Mahopac, NY 10541

RE: Rosamilia 585 Union Valley Rd Mahopac, NY 10541 TM# 87.8-1-3

Dear Mr Paeprer & Members of the Planning Board

The applicant wishes to continue parking his 12 Tree Service Trucks and parking for 8 employees at the above mentioned property. My clients understand that Site Pan approval is required from the Planning Board and approval of a use variance is required from the Zoning Board Of Appeals. In addition approval from the Conservation Board may also be required due to the location of wetlands.

The wetlands boundary is located on the Site Plan. A remediation plan will be submitted when we apply to the Conservation Board. The attached Site Plan shows the contours as they exist today and no change in grading is proposed. In addition I have attached the Soil Testing Report and I have updated the Site Plan (Easement noted) and the Planning Board Application and the short EAF.

We look forward to discussing the project at your next Planning Board Meeting on Wednesday, January 24, 2024

Joel Greenberg





SITE PLAN APPLICATION INSTRUCTIONS



1 of 3

The Town of Carmel Planning Board meetings are held twice a month, on the second **Thursday** and fourth **Wednesday**, at 7:00 PM at Carmel Town Hall, 60 McAlpin Avenue, Carmel

The submission deadline is 10 days prior to the Planning Board meeting. New site plan applications that have been deemed complete will be placed on the agenda in the order they are received.

No application will be placed on the agenda that is incomplete

Pre-Submission:

Prior to the formal submission of the site plan, a pre-submission conference may be requested by the applicant to be conducted with representatives from the Town, which may include the Town Planner, Town Engineer, Director of Code Enforcement and/or the Planning Board Attorney. This conference will serve to educate the applicant on the process he/she must follow, clarify the information required to submit a complete site plan application, and to highlight any specific areas of concern. You may arrange a presubmission conference through the Planning Board Secretary at (845) 628-1500 extension 190.

Submission Requirements:

At least 10 days prior to the Planning Board meeting, the site plan application shall be submitted to the Planning Board Secretary as follows:

All site plans shall be signed, sealed and folded with the title box legible. The
application package shall include:
□ 5 copies of the Site Plan Application Form, signed and notarized.
5 copies of the SEQR Environmental Assessment Form (use of short form or
long form shall be determined at pre-submission conference).
5 full size sets of the Site Plan (including floor plans and elevations)
1 CD (in pdf. format) containing an electronic version of the Site Plan
2 copies of the Disclosure Statement
5 copies of the Site Plan Completeness Certification Form
All supplemental studies, reports, plans and renderings.
2 copies of the current deed.
2 copies of all easements, covenants and restrictions.
The appropriate fee, determined from the attached fee schedule. Make checks
payable to the Town of Carmel.
allest 1
Kose Twombetta 1/11/24 Kede Att 1/17/24
Planning Board Secretary; Date Town Engineer; Date



TOWN OF CARMEL SITE PLAN APPLICATION



Per Town of Carmel Code - Section 156 - Zoning

SITE IDENTIFICAT	ION INFORMATION	
Application Name: Massimo Rosamilia & Robert Rosamilia	Application #	Date Submitted: 1/8/2024
	mlet: Mahopac, NY 10	541
Property Location: (Identify landmarks, distance from	intersections, etc.)	
585 Union Valley Road		
Town of Carmel Tax Map Designation: Section 87.8 Block 1 Lot(s) 2 & 3	Zoning Designation of Site: R-120	
Property Deed Recorded in County Clerk's Office Date Liber Page	Liens, Mortgages or other E	ncumbrances
Existing Easements Relating to the Site No X Yes Describe and attach copies:	Are Easements Proposed? No Yes X Describe and Cross easements between lot	attach copies: 5 2&3
Have Property Owners within a 500' Radius of the S Yesx No Attached List to this Appl	Site Been Identified? lication Form	
APPLICANT/O	WNER INFORMATION	
Property Owner: Massimo Rosamilia	Phone #: 914-507-6587 Fax#:	Email: massimorosamilia@gmail.com
Owners Address: No. 585 Street: Union Valley Road Tol	wn: Mahopac	State: NY Zip: 10541
Applicant (If different than owner):	Phone #: Fax#:	Email:
Applicant Address (If different than owner): No. Street: Total	vn:	State: Zip:
Individual/ Firm Responsible for Preparing Site	Phone #: 845-628-6613	Email: Joel.greenberg
Plan: Joel Greenberg	Fax#: 845-628-2807	@arch-visions.com
Address: No. 2 Street: Muscoot Road North Tol	wn: Mahopac	State:NY Zip: 10541
Other Representatives: None	Phone #: Fax#:	Email:
Owners Address: No. Street: To	wn:	State: Zip:
	ESCRIPTION	
Describe the project, proposed use and operation t		
Remove debris from Wetlands & permit trucks gravel area on Lot # 3 & 8 employees to park	for tree service business on Lot # 2	to park on existing
There are 8 employees		

TOWN OF CARMEL SITE PLAN APPLICATION

PRO	JECT INFORMATION		
Lot size:	Square footage of all existing structures (by floor):		
Acres: 0.8 Square Feet: 34,96	2,100		
# of existing parking spaces: 2	# of proposed parking spaces: 0		
# of existing dwelling units: 1 # of proposed dwelling units 0			
Is the site served by the following public	private septic system(s) be installed? Existing SSTS		
 Is project in sewer district or will p If yes to Sanitary Sewer answer th 	ne following:		
100m			
Does approval exist to connect to sewer main? Yes: ☐ No: ☒ NA Is this an in-district connection? NA Out-of district connection? What is the total sewer capacity at time of application? NA What is your anticipated average and maximum daily flow NA For Town of Carmel Town Engineer What is the sewer capacity			
 Water Supply 	Yes: □ No: □ N/A		
▶ What is the total wa	st to connect to water main? Yes: No: X Existing Well liter capacity at time of application? NA Dated average and maximum daily demand NA		
Storm Sewer	Yes: ☐ No: ፟፟፟		
Electric Service	Yes: ■ No: □		
■ Gas Service	Yes: □ No: ■		
Telephone/Cable Lines	Yes: ■ No: □		
For Town of Carmel Town Engineer			
Water Flows Sewer Flows			
Town Engineer; Date What is the predominant soil type(s) on t	the What is the approximate depth to water table?		
site?	NA		
Site slope categories: 15-25%	% 100 25-35 %% >35 %%		
	at (C.Y.) None Fill (C.Y.) None		
Is Blasting Proposed Yes:	No: 🖾 Unknown: 🗆		
Is the site located in a designated Critical			
	curb cuts proposed? What is the sight distance?		
site? Yes: ■ No: □ Yes: □ N	lo: Left 200' Right 200'		
Is the site located within 500' of:			
The boundary of an adjoining city, too	wn or village Yes: □ No: 🗹		
The boundary of a state or county par	rk, recreation area or road right-of-way Yes: ☐ No: 🕮		
A county drainage channel line.	Yes: ☐ No: □X		
The boundary of state or county owner	ed land on which a building is located Yes: ☐ No: 🖬		

TOWN OF CARMEL SITE PLAN APPLICATION

		i lace (or sano	antially contiguous)		
Yes: No: I	WOMEN CONTRACTOR OF THE STREET				
Is the site located in a designated flood	plain?				
Yes: ☐ No: 🖹					
Will the project require coverage under	the Current NYSDE	C Stormwater R	egulations		
•			Studio Seas Inclusion		
			Yes: 🗆 No: 🖻		
100 SW			1-4:		
Will the project require coverage under	the Current NYCDE	P Stormwater R	egulations		
			Yes: ☐ No: 面		
			165. L 140. E		
Dear the site disturb many than 5 000 s	a Et	Yes: ■ No: □			
Does the site disturb more than 5,000 s	q II	163.			
Does the site disturb more than 1 acre		Yes: ☐ No: ■			
Does the site distarb more than I dore					
Does the site contain freshwater wetlan	ds?				
Yes: ■ No: □					
Jurisdiction:					
NYSDEC: Town of Carmo	el: 🖾	ne 1888 - V. (1994) - T. (1994) - T. (1994)			
If present, the wetlands must be delineated	ed in the field by a W	etland Professio	nal, and survey located on		
the Site Plan.		10	Yes: ■ No: □		
Are encroachments in regulated wetlan	ds or wetland buffe	rs proposed?			
Does this application require a	referral to the t	=nvironmentai	Yes: No: 🗆		
Conservation Board?		es? Yes:	No: 🖾		
Does the site contain waterbodies, streams or watercourses? Yes: No: No:					
A	Are any encroachments, crossings or alterations proposed? Yes: No:				
Is the site located adjacent to New York	City watershed lan	de? Ves:	No: 🖾		
is the project funded partially or in total	hy grants or loan	s from a public			
Is the project funded, partially or in total, by grants or loans from a public source? Yes: □ No: ☑					
Will municipal or private solid waste disposal be utilized?					
Public: D Private:					
Has this application been referred to the	e Fire Department?	Yes:	No: □		
Has this application been referred to the	e Fire Department?	Yes:	No: □		
8			No: □		
What is the estimated time of construct			No: □		
What is the estimated time of construct 3 Months	ion for the project?		No: □		
What is the estimated time of construct 3 Months					
What is the estimated time of construct 3 Months	ion for the project?		Proposed		
What is the estimated time of construct 3 Months ZONING	ion for the project?	ORMATION	Proposed 71,381 SF		
What is the estimated time of construct 3 Months ZONING Zoning Provision	ion for the project? COMPLIANCE INFO Required	DRMATION Existing	Proposed 71,381 SF 6%		
What is the estimated time of construct 3 Months ZONING Zoning Provision Lot Area	compliance info Required 120,000SF	71,381 SF 6% 92 FT	Proposed 71,381 SF 6% 92 FT		
What is the estimated time of construct 3 Months ZONING Zoning Provision Lot Area Lot Coverage Lot Width Lot Depth	compliance info Required 120,000SF 65%	PRMATION Existing 71,381 SF 6% 92 FT 384 FT	Proposed 71,381 SF 6% 92 FT 384 FT		
What is the estimated time of construct 3 Months ZONING Zoning Provision Lot Area Lot Coverage Lot Width Lot Depth Front Yard	COMPLIANCE INFO Required 120,000SF 65% 200 FT	PRMATION Existing 71,381 SF 6% 92 FT 384 FT 62 Ft	Proposed 71,381 SF 6% 92 FT 384 FT 62 FT		
What is the estimated time of construct 3 Months ZONING Zoning Provision Lot Area Lot Coverage Lot Width Lot Depth Front Yard Side Yard	COMPLIANCE INFO Required 120,000SF 65% 200 FT 200FT	PRMATION Existing 71,381 SF 6% 92 FT 384 FT 62 Ft 25 FT	Proposed 71,381 SF 6% 92 FT 384 FT 62 FT 25 FT		
What is the estimated time of construct 3 Months ZONING Zoning Provision Lot Area Lot Coverage Lot Width Lot Depth Front Yard Side Yard Rear Yard	COMPLIANCE INFO Required 120,000SF 65% 200 FT 200FT 40Ft	PRMATION Existing 71,381 SF 6% 92 FT 384 FT 62 Ft	Proposed 71,381 SF 6% 92 FT 384 FT 62 FT		
What is the estimated time of construct 3 Months ZONING Zoning Provision Lot Area Lot Coverage Lot Width Lot Depth Front Yard Side Yard Rear Yard Minimum Required Floor Area	COMPLIANCE INFORMATION Required 120,000SF 65% 200 FT 200FT 40Ft 25 Ft 40 Ft N/A	PRMATION Existing 71,381 SF 6% 92 FT 384 FT 62 Ft 25 FT	Proposed 71,381 SF 6% 92 FT 384 FT 62 FT 25 FT		
What is the estimated time of construct 3 Months Zoning Provision Lot Area Lot Coverage Lot Width Lot Depth Front Yard Side Yard Rear Yard Minimum Required Floor Area Floor Area Ratio	COMPLIANCE INFO Required 120,000SF 65% 200 FT 200FT 40Ft 25 Ft 40 Ft N/A N/A	PRMATION Existing 71,381 SF 6% 92 FT 384 FT 62 Ft 25 FT 200 Ft	Proposed 71,381 SF 6% 92 FT 384 FT 62 FT 25 FT 200 FT		
What is the estimated time of construct 3 Months Zoning Provision Lot Area Lot Coverage Lot Width Lot Depth Front Yard Side Yard Rear Yard Minimum Required Floor Area Floor Area Ratio Height	COMPLIANCE INFO Required 120,000SF 65% 200 FT 200FT 40Ft 25 Ft 40 Ft N/A N/A 35 FT	PRMATION Existing 71,381 SF 6% 92 FT 384 FT 62 Ft 25 FT 200 Ft	Proposed 71,381 SF 6% 92 FT 384 FT 62 FT 25 FT 200 FT		
What is the estimated time of construct 3 Months Zoning Provision Lot Area Lot Coverage Lot Width Lot Depth Front Yard Side Yard Rear Yard Minimum Required Floor Area Floor Area Ratio	COMPLIANCE INFO Required 120,000SF 65% 200 FT 200FT 40Ft 25 Ft 40 Ft N/A N/A	PRMATION Existing 71,381 SF 6% 92 FT 384 FT 62 Ft 25 FT 200 Ft	Proposed 71,381 SF 6% 92 FT 384 FT 62 FT 25 FT 200 FT		



SITE PLAN COMPLETENSS CERTIFICATION FORM



All Site Plans submitted to the Planning Board for review shall include the following information and details, as set forth in Section 156-61 B of the Town of Carmel Zoning Ordinance.

This form shall be included with the site plan submission

	Requirement Data	To Be Completed by the Applicant	Waived by the Town
1	Name and title of person preparing the site plan	X	
2	Name of the applicant and owner (if different from applicant)	X	
3	Original drawing date, revision dates, scale and north arrow	X	
4	Tax map, block and lot number(s), zoning district	X	
5	All existing property lines, name of owner of each property within a 500' radius of the site	X	
6	Contour lines at two-foot intervals, grades of all roads, driveways, sanitary and storm sewers	X	
7	The location of all water bodies, streams, watercourses, wetland areas, wooded areas, rights-of-way, streets, roads, highways, railroads, buildings, structures	X	
8	The location of all existing and proposed easements	X	
9	The location of all existing and proposed structures, their use, setback dimensions, floor plans, front, side and rear elevations, buildable area.	図	
10	On site circulation systems, access, egress ways and service roads, emergency service access and traffic mitigation measures	X	
11	Sidewalks, paths and other means of pedestrian circulation	N/A 🔲	
12	On-site parking and loading spaces and travel aisles with dimensions	X	
13	The location, height and type of exterior lighting fixtures		
14	Proposed signage	☐ None	
15	For non-residential uses, an estimate of the number of employees who will be using the site, description of the operation, types of products sold, types of machinery and equipment used	X	



SITE PLAN COMPLETENSS CERTIFICATION FORM



16	The location of clubbourses	To Be Completed by the Applicant	Waived by the Town
47	The location of clubhouses, swimming pools, open spaces, parks or other recreational areas, and identification of who is responsible for maintenance	N/A	
17	screening or other landscaping, including grading and water management. A comprehensive landscaping plan in accordance with the Tree Conservation Law	N/A	
	The location of public and private utilities, maintenance responsibilities, trash and garbage areas	X	
	A list, certified by the Town Assessor, of all property owners within 500 feet of the site boundary	X	
0	Any other information required by the Planning Board which is reasonably necessary to ascertain compliance with this chapter	X	

Applicants Certification (to site plan:	be completed by the licensed	professional preparing the
I <u>Joel Greenberg</u> my seal and signature, me Carmel Zoning Ordinance:	hereby certify that the site plets all of the requirements o	an to which I have attached f §156-61B of the Town of

Signature - Applicant

Date
1/8/2024

Professionals Seal

Signature - Owner

Date

1/8/2024



SITE PLAN COMPLETENSS CERTIFICATION FORM



Town Certification (to be completed by the Town)

I hereby confirm that the site plan meets all of the requirements of §156-61B of the Town of Carmel Zoning Ordinance:

Signature - Planning Board Secretary

Signature - Town Engineer

Short Environmental Assessment Form Part 1 - Project Information

Instructions for Completing

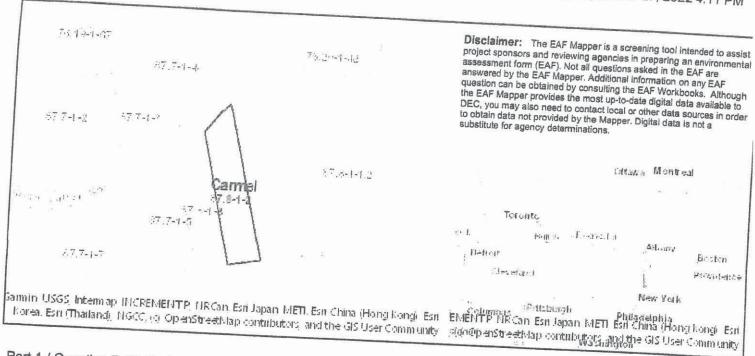
Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. 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:		
Massimo Rosamilia and Robert Rosamilia		
Project Location (describe, and attach a location map):		
585 Union Valley Road Mahopac, NY 10541		
Brief Description of Proposed Action:		
Remove debris from Wetlands & Permit trucks for Tree Service Business to park on existing g 8 Employees	gravel area behind existing ga	rage.
Name of Applicant or Sponsor: Massimo Rosamilia and Robert Rosamilia	Telephone: 914-507-658	7
Massimo Rosamilia and Robert Rosamilia E-Mail: massimorosamilia@gm		a@gmail.com
Address:		
585 Union Valley Road		
City/PO: State: Zip Code:		
Mahopac 1. Does the proposed action only involve the legislative adoption of a plan, local	NY	10541
administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the e may be affected in the municipality and proceed to Part 2. If no, continue to ques 2. Does the proposed action require a permit, approval or funding from any other of Yes, list agency(s) name and permit or approval: ZBA & ECB & Building Department.	nvironmental resources the tion 2. er government Agency?	NO YES NO YES NO YES
If Yes, list agency(s) hame and permit of approval. ZBA & ECB & Building Departmen	11	
a. Total acreage of the site of the proposed action? b. Total acreage to be physically disturbed? c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?	0.8 acres 0.2 acres 0.8 acres	
4. Check all land uses that occur on, are adjoining or near the proposed action: 5. Urban Rural (non-agriculture) Industrial Commercia Forest Agriculture Aquatic Other(Spec		rban)

5.	Is the proposed action,	NO	YES	N/A
	a. A permitted use under the zoning regulations?	/		
	b. Consistent with the adopted comprehensive plan?	V		
	Calculation hall and come	.9	NO	YES
6.	Is the proposed action consistent with the predominant character of the existing built or natural landscape	1	V	
7.	Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		NO	YES
If '	Yes, identify:		V	П
			NO	YES
8.	a. Will the proposed action result in a substantial increase in traffic above present levels?		NO	TES
	b. Are public transportation services available at or near the site of the proposed action?		V	H
	c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed		V	
9.	action? Does the proposed action meet or exceed the state energy code requirements?		NO	YES
If	the proposed action will exceed requirements, describe design features and technologies: NA			
2.00			П	П
10	. Will the proposed action connect to an existing public/private water supply?		NO	YES
	If No, describe method for providing potable water: NA - Existing Wells			
	If no, decented method for providing powers		\checkmark	
		- 10		
11	Will the proposed action connect to existing wastewater utilities?		NO	YES
	If No, describe method for providing wastewater treatment:			
12	a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or distributed in the contains of the	rict	NO	YES
wh	nich is listed on the National or State Register of Historic Places, or that has been determined by the summissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the		V	П
	ate Register of Historic Places?			
arc	b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for chaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?			
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?		NO	YES
				\checkmark
	b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?			\checkmark
If'	Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:			
S				

14. Identify the typical habitat types that occur on or are likely to be 6		
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	y:	
Early mid-successional		
J. Supurban		
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?		
Federal government as threatened or endangered?	NO	YES
16. Is the president if I		
16. Is the project site located in the 100-year flood plan?	100	
	NO	YES
17 Will a	1	
17. Will the proposed action create storm water discharge, either from point or non-point sources?	NO	YES
p-modulees.	V	
a. Will storm water discharges flow to adjacent properties?	V	+ <u></u>
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)?		
or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment:	NO	YES
purpose and size of the impoundment:		
	1	
19. Has the site of the proposed action or an adjaining	Sell-service.	
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste	NO	YES
If Yes, describe:		
20 Hos the site of the	V	
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or		
If Yes, describe:	NO	YES
	1	
I CERTIFY THAT THE INFORMATION PROVIDED A POVIDED		
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BE	ST OF	
Applicant/sponsor/name: Joel; Greenberg		
Date: 1/8/2024		
Signature: 7 M/ 7+100 m/ M/		
Title: Project architect		



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]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital manning info
Part 1 / Question 15 [Threatened or Endangered Animal]	waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal - Name]	Northern Long-eared Bat
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	No
	140

TED KOZLOWSKI 136 BIG ELM ROAD BREWSTER, NY 10509

July 15, 2021

Mr. Massimo Rosamlia PO Box 716 Mahopac, NY

RE: Wetland Delineation, 585 Union Valley Road Mahopac, NY

Dear Mr. Rosamilia:

As per your request I delineated the estimated wetland areas with pink survey flags on the above site on July 12, 2021. As you are aware, this site has been disturbed with a tree processing operation in which portions of the wetland have been covered by a deep layer of wood chips and other debris associated with this operation. I placed 10 survey flags along the delineation boundary.

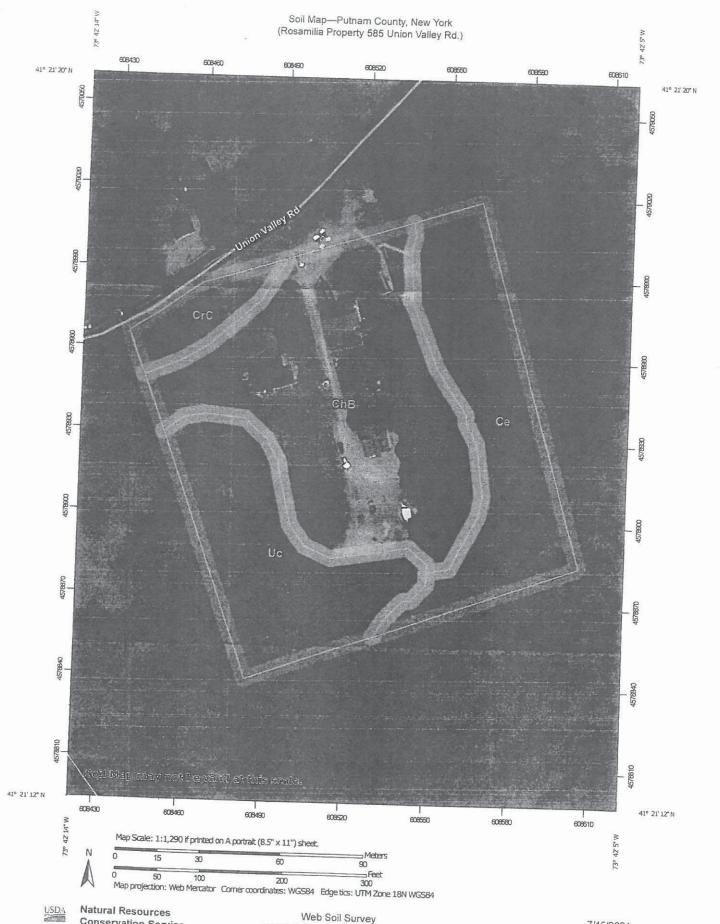
My delineation is an educated estimate of the wetland area affected. I based this delineation upon the enclosed soil survey indicating approximate boundaries of two hydric soil types within the area, Udorthents (Uc) and Catden Muck (Ce), and by estimating the delineation from existing wetland indicator trees (red maple) that have wood chips piled upon their root zones. The wetland areas to the west and east of the disturbance are unaffected and the delineation there is exact.

This wetland is associated with State Wetland F-1 and is likely regulated by both the Town of Carmel and the NYSDEC. You will need to discuss this with the Town and proceed from there.

Please contact me if you have any questions.

Sincerely,

Ted Kozlowski, Sertified Wetland Delineator



MAP LEGEND

Area of Interest (AOI) Spoil Area Area of Interest (AOI) Stony Spot 4 Soils Very Stony Spot 5 Soil Map Unit Polygons Wet Spot . . Soil Map Unit Lines Other 4 П Soil Map Unit Points .-Special Line Features Special Point Features (0) Blowout Water Features Streams and Canals 52 Borrow Pit Transportation Clay Spot ¥5. Rails 1-1-1 Closed Depression Interstate Highways 180001 Gravel Pit US Roules .. Gravelly Spot Major Roads 93 Landfill Local Roads il. Lava Flow Background ,1. Marsh or swamp Aerial Photography . . . Mine or Quarry

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

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: Putnam County, New York Survey Area Data: Version 17, Jun 11, 2020

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 5, 2016

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.

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Miscellaneous Water

Severely Eroded Spot

Rock Outcrop

Satine Spot

Sandy Spot

Sinkhole

Slide or Slin

Sodic Spot

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ce	Catden muck, 0 to 2 percent slopes	1.2	25.7%
ChB	Charlton fine sandy loam, 3 to 8 percent slopes	2.1	45.8%
CrC	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	0.2	5.3%
Jc	Udorthents, wet substratum	1.1	23.3%
Totals for Area of Interest	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4.6	100.0%



Technical Report

prepared for:

Architectural Visions

2 Muscoot Rd North Mahopac NY, 10541

Attention: Joel Greenberg

Report Date: 07/06/2023

Client Project ID: Metals Testing

York Project (SDG) No.: 23F0674

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert, Nos. 10854 and 12058

PA Cert. No. 68-04440

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132-02 89th AVENUE FAX (203) 357-0166 RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 07/06/2023

Client Project ID: Metals Testing York Project (SDG) No.: 23F0674

Architectural Visions

2 Muscoot Rd North Mahopac NY, 10541

Attention: Joel Greenberg

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 12, 2023 and listed below. The project was identified as your project: **Metals Testing**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

Soil	06/08/2023	06/12/2023
		00/12/2023
Soil	06/08/2023	06/12/2023
Soil	06/08/2023	06/12/2023
		Province COAC

General Notes for York Project (SDG) No.: 23F0674

- 1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
- 2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
- 3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
- 4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
- 5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
- 6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
- 7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
- 8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: Och I most

Cassie L. Mosher Laboratory Manager Date: 07/06/2023



Client Sample ID:

York Sample ID:

23F0674-01

York Project (SDG) No. 23F0674

Client Project ID

Metals Testing

Matrix

Collection Date/Time

Date Received

Soil

June 8, 2023 3:00 pm

06/12/2023

Metals, Target Analyte

Sample Prepared by Method: EPA 3050B

625			
1 00	- :	MILLAND	
1.00	-111	Notes:	

Sample Notes:

CAS	No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Referenc	e Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony		ND	M-CCV	mg/kg dry	2.19	1	EPA 6010D Certifications:	CTDOH-PI	06/14/2023 14:07 H-0723,NELAC-NY10	06/19/2023 18:49 854,NJDEP,PADEP	CEG
7440-38-2	Arsenic		ND		mg/kg dry	1.31	1	EPA 6010D Certifications:	CTDOH-PI	06/14/2023 14:07 H-0723,NELAC-NY10	06/19/2023 18:49 854,NJDEP,PADEP	CEG
7440-39-3	Barium		53.6		mg/kg dry	2.19	1	EPA 6010D		06/14/2023 14:07	06/19/2023 18:49	CEG
								Certifications:	CTDOII-P	H-0723,NELAC-NY16	854,NJDEP,PADEP	
7440-41-7	Beryllium		ND		mg/kg dry	0.044	1	EPA 6010D Certifications:	CTDOH-PF	06/14/2023 14:07 I-0723,NELAC-NY108	06/19/2023 18:49 854,NJDEP,PADEP	CEG
7440-43-9	Cadmium		0.349		mg/kg dry	0.263	1	EPA 6010D		06/14/2023 14:07	06/19/2023 18:49	are.
						0.203	55	Certifications:	CTDOH-P	H-0723,NELAC-NY10		CEG
7440-47-3	Chromium		14.6		mg/kg dry	0.438	1	EPA 6010D		06/14/2023 14:07	06/19/2023 18:49	050
						91,131	1.81	Certifications:	CTDOIL-P	1-0723.NELAC-NY10		CEG
7440-50-8	Copper		34.7		mg/kg dry	1.75	1	EPA 6010D	CIDINI	06/14/2023 14:07		000
			5.117		0 0 3	1979	(8)	Certifications:	CTDOH-PI	H-0723,NELAC-NY10	06/19/2023 18:49	CEG
7439-92-1	Lead		24.0		mg/kg dry	0.438	Ĩ.	EPA 6010D	CIDOII-II			000000000
			24.0			0.438	(4)	Certifications:	CTDOU D	1-0723,NELAC-NY10	06/19/2023 18:49	CEG
7440-02-0	Nickel		14.5		mg/kg dry	0.872	29	EPA 6010D	CIBOH-H			
			14.3		mg ng drý	0.872		Certifications:	CTROUR		06/19/2023 18:49	CEG
7782-49-2	Selenium		ND		mg/kg dry	2.19	11.	EPA 6010D Certifications:		I-0723,NELAC-NY10: 06/14/2023 14:07 -0723,NELAC-NY108	06/19/2023 18:49	CEG
7440-22-4	Silver		ND		mg/kg dry	0.441	1	EPA 6010D Certifications:	СТООН-РН	06/14/2023 14:07 -0723,NELAC-NY108	06/19/2023 18:49 54,NJDEP,PADEP	CEG
7440-62-2	Vanadium		37.2	i i	mg/kg dry	0.872	1	EPA 6010D		06/14/2023 14:07	06/19/2023 18:49	CEG
					NAMES COST	ment of the second		Certifications:	CTDOH-PH	I-0723,NELAC-NY108		CEG
7440-66-6	Zinc		35.4	1	mg/kg dry	2.18		EPA 6010D	- 1 - 1 - 1 - 1 - 1		06/19/2023 18:49	ore
			27.705.7		- (10) (10) (10)	2.10		Certifications:	CTDOH-PH	I-0723,NELAC-NY108		CEG

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

CAST	No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Meth	Date/Time od Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury		0.144		mg/kg dry	0.0347	1	EPA 7471B	06/16/2023 10:28	06/19/2023 00:00	AA
								Certifications: CTD	OII-PH-0723 NIDEPNEL	C-NV10854 PADED	

Total Solids

Sample Prepared by Method: % Solids Prep

Sample Prepared by Method: EPA SW846-7471B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reponed to LOO Dilu	ition Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
		Water State of the Control of the Co					Trepared	. that y zea	Analyst

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Page 4 of 11



Client Sample ID: 1

Client Project ID

Matrix

Collection Date/Time

York Sample ID:

23F0674-01 Date Received

York Project (SDG) No. 23F0674

Metals Testing

Soil

June 8, 2023 3:00 pm

06/12/2023

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS	S No.	Parameter	Result	Flag	Units	Reported to	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids		95.1		%	0.100	1	SM 2540G	06/19/2023 15:18	06/20/2023 08:50	
								Certifications: CTDOH	PH-0723		

Sample Information

Client Sample ID:

Client Project ID

23F0674-02

York Project (SDG) No. 23F0674

Metals Testing

Matrix Soil

Collection Date/Time June 8, 2023 3:00 pm

York Sample ID:

Date Received 06/12/2023

Metals, Target Analyte

Sample Prepared by Method: EPA 3050B

Log-in Notes:

Sample Notes:

CAS	No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony		ND	M-CCV	ing/kg dry	2.30	1	EPA 6010D Certifications:	CTDOH-PI	06/15/2023 14:03 I-0723,NELAC-NY 10	06/19/2023 17:40 854,NJDEP,PADEP	CEG
7440-38-2	Arsenic		2.57		mg/kg dry	1.38	1	EPA 6010D		06/15/2023 14:03	06/19/2023 17:40	CEG
								Certifications:	CTDOH-P	H-0723,NELAC-NYI	0854,NJDEP,PADEP	
7440-39-3	Barium		37.4		mg/kg dry	2.29	1	EPA 6010D		06/15/2023 14:03	06/19/2023 17:40	CEG
								Certifications:	CTDOH-P	H-0723,NELAC-NY10	0854,NJDEP,PADEP	
7440-41-7	Beryllium		ND		mg/kg dry	0.046	1	EPA 6010D Certifications:	СТДОН-РН	06/15/2023 14:03 I-0723,NELAC-NY10	06/19/2023 17:40 854,NJDEP,PADEP	CEG
7440-43-9	Cadmium		ND		mg/kg dry	0.276	1	EPA 6010D Certifications:	СТООН-РН	06/15/2023 14:03 -0723,NELAC-NY10	06/19/2023 17:40 854,NJDEP,PADEP	CEG
7440-47-3	Chromium		11.0		mg/kg dry	0.460	1	EPA 6010D		06/15/2023 14:03	06/19/2023 17:40	CEG
7.140 70 11	-							Certifications:	CTDOH-PI	I-0723,NELAC-NY10	1854,NJDEP,PADEP	
7440-50-8	Copper		21.8		mg/kg dry	1.84	1	EPA 6010D		06/15/2023 14:03	06/19/2023 17:40	CEG
7120.02.1	¥.							Certifications:	CTDOH-PI	I-0723,NELAC-NY10	854,NJDEP,PADEP	
7439-92-1	Lead		23.3		mg/kg dry	0.460	1	EPA 6010D		06/15/2023 14:03	06/19/2023 17:40	CEG
								Certifications:	CTDOH-PI	I-0723,NELAC-NY 10	854,NJDEP,PADEP	
7440-02-0	Nickel		12.9		mg/kg dry	0.915	1	EPA 6010D		06/15/2023 14:03	06/19/2023 17:40	CEG
*****	~							Certifications:	CTDOII-PI	I-0723,NELAC-NY10	854,NJDEP,PADEP	
7782-49-2	Selenium		15.7	1	mg/kg dry	2.30	1	EPA 6010D		06/15/2023 14:03	06/19/2023 17:40	CEG
								Certifications:	CTDOH-PH	I-0723,NELAC-NY10	854,NJDEP,PADEP	
7440-22-4	Silver		ND	đ	ng/kg dry	0.463		EPA 6010D Certifications: C	CTDOH-PH-	06/15/2023 14:03 -0723,NELAC-NY108	06/19/2023 17:40 54,NJDEP,PADEP	CEG
440-62-2	Vanadium		27.2	1	ng/kg dry	0.915	ĩ	EPA 6010D		06/15/2023 14:03	06/19/2023 17:40	CEC
										-0723,NELAC-NY10		CEG

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Client Sample ID:

York Sample ID:

23F0674-02

York Project (SDG) No. 23F0674

Client Project ID Metals Testing

Matrix Soil

Collection Date/Time June 8, 2023 3:00 pm Date Received 06/12/2023

Metals, Target Analyte

Sample Prepared by Method: EPA 3050B

Log-in Notes:

Sample Notes:

CAS	No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc		27.8		mg/kg dry	2.29	1	EPA 6010D	06/15/2023 14:03	06/19/2023 17:40	CEG
								Certifications: CTDON	DU 0722 NEL AC NIVI	OUE A NUMBER DA DER	

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471B

CAS	No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Me	Date/Time thod Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury		0.121		mg/kg dry	0.0364	i	EPA 7471B	06/16/2023 10:28	06/19/2023 00:00	AA
								Certifications: C	DOH-PH-0723,NJDEP.NELA	C-NY 10854 PADEP	

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS	S No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids		90.7		%	0.100	1	SM 2540G		06/19/2023 15:18	06/20/2023 08:50	S_S
								Certifications:	CTDOH-P	H-0723		

Sample Information

Client Sample ID:

Client Project ID

Matrix

York Sample ID:

23F0674-03

York Project (SDG) No. 23F0674

Metals Testing

Soil

Collection Date/Time June 8, 2023 3:00 pm Date Received 06/12/2023

Metals, Target Analyte

Sample Prepared by Method: EPA 3050B

Log-in Notes:

Sample Notes:

CAS N	No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference M	Date/Time lethod Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony		ND	M-CCV	mg/kg dry	2.10	1	EPA 6010D Certifications: C	06/15/2023 14:03 TDOH-PH-0723,NELAC-NY10	06/19/2023 17:42 854.NJDEP,PADEP	CEG
7440-38-2	Arsenic		5.75		mg/kg dry	1.26	ï	EPA 6010D Certifications:	06/15/2023 14:03 CTDOII-PH-0723,NELAC-NY10	06/19/2023 17:42 854,NJDEP,PADEP	CEG
7440-39-3	Barium		71.3		mg/kg dry	2.10	1	EPA 6010D Certifications: C	06/15/2023 14:03 TDOH-PH-0723,NELAC-NY10	06/19/2023 17:42 854,NJDEP,PADEP	CEG
7440-41-7	Beryllium		ND		mg/kg dry	0.042	L	EPA 6010D Certifications: C	06/15/2023 14:03 TDOH-PH-0723,NELAC-NY10	06/19/2023 17:42 854,NJDEP,PADEP	CEG
7440-43-9	Cadmium		ND		mg/kg dry	0.252	l.	EPA 6010D Certifications: CT	06/15/2023 14:03 TDOH-PH-0723,NELAC-NY108	06/19/2023 17:42 854,NJDEP.PADEP	CEG

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Client Sample ID:

York Sample ID:

23F0674-03

York Project (SDG) No. 23F0674

Client Project ID Metals Testing

Matrix Soil

Collection Date/Time June 8, 2023 3:00 pm Date Received 06/12/2023

Metals, Target Analyte Sample Prepared by Method: EPA 3050B Log-in Notes:

Sample Notes:

CAS N	io.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analysi
440-47-3	Chromium		19.0		mg/kg dry	0.421	I	EPA 6010D		06/15/2023 14:03	06/19/2023 17:42	CEG
								Certifications:	CTDOH-P	H-0723,NELAC-NYI	0854,NJDEP,PADEP	
440-50-8	Copper		32.7		mg/kg dry	1.68	I	EPA 6010D		06/15/2023 14:03	06/19/2023 17:42	CEG
								Certifications:	CTDOII-P	II-0723.NELAC-NYI	0854,NJDEP,PADEP	
439-92-1	Lead		26.4		mg/kg dry	0.421	1	EPA 6010D		06/15/2023 14:03	06/19/2023 17:42	CEG
								Certifications:	CTDOH-P	H-0723,NELAC-NYI	0854,NJDEP,PADEP	
440-02-0	Nickel		23.0		mg/kg dry	0.837	1	EPA 6010D		06/15/2023 14:03	06/19/2023 17:42	CEG
								Certifications:	CTDOH-P	H-0723,NELAC-NY10	0854,NJDEP,PADEP	
782-49-2	Selenium		ND		mg/kg dry	2.10	1	EPA 6010D		06/15/2023 14:03	06/19/2023 17:42	CEG
								Certifications:	CTD011-PI	I-0723,NELAC-NY10	854,NJDEP,PADEP	
4-10-22-4	Silver		ND		mg/kg dry	0.424	1	EPA 6010D		06/15/2023 14:03	06/19/2023 17:42	CEG
								Certifications:	CTDOH-PF	I-0723,NELAC-NY10		CLO
440-62-2	Vanadium		54.5		mg/kg dry	0.837	į.	EPA 6010D		06/15/2023 14:03	06/19/2023 17:42	CEG
			54.5		6 6 7	0.057	5	Certifications:	CTDOH-P	H-0723,NELAC-NY10		CEG
440-66-6	Zinc		46.2		mg/kg dry	2.09	46	EPA 6010D		06/15/2023 14:03	06/19/2023 17:42	CEC
			40.2			2.09	L		OTRALI N	H-0723,NELAC-NY10		CEG

Mercury by 7470/7471

Sample Prepared by Method: EPA SW846-7471B

*	300 18000		
Lo	g-in	Notes:	

Sample Notes:

CAS	No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Me	Date/Time thod Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury		0.0501		mg/kg dry	0.0333	1	EPA 7471B	06/16/2023 10:28	06/19/2023 00:00	AA
								Certifications: CT	DOH-PH-0723,NJDEP,NELA	C-NY10854,PADEP	

Total Solids

Log-in Notes:

Sample Notes:

Sample Pro	pared by Method: % 8	Solids Prep									
CAS	5 No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids		99.1		%	0.100	1	SM 2540G	06/19/2023 15:18	06/20/2023 08:50	S_S





Sample and Data Qualifiers Relating to This Work Order

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS
	recovery.

The recovery for this element in the Continuing Calibration Verification (CCV) exceeded 110% of the expected value. Positive M-CCV1 detections may be biased high.

Definitions and Other Explanations

 Analyte is not certified or the state of the sample 	s origination does not offer certification for the Analyte.
---	---

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RI. REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located Reported to above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

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For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

YOR!	- 15 miles	K Analytical Laboratoriei This document serves a You	s, Inc. (YORK)'s Standard ' is your written authorization is signature binds you to Yo	Ferms & Conditions are for YORK to proceed	ly Record I listed on the back side of this document, with the analyses requested below. 8. Conditions	ZS/-OG	574
120 Research Drive Stratford, C7 06615 132-02 898	h Ave Queens, NY 11418	58 Church Hill Rd, #2 Ner	wtown, CT 06470 clientser	vices@yorklab.com	www.yorklab.com 800-306-YORK	Orași .	
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		GW - groundwater	New Jersey	QA Report	CT RCP DOA/DUE NYSDEC EQUIS	Regulation(s) (please	Mini
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		WW - wastewater	Pennsylvania	Standard Excel EDD	Deliverables NJDEP SRP HazSite		
Samples Collected by: (print AND sig	n your name)	O - Oil Other	Other:	NY ASP B Package	Otner.		- 1
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Sample ID York ID Sampling Date Client Matrix		Cleanup Objectives- Cleanup Objectives-	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-	1 23F0674-01 6/8/2023 3:00:00 PM Soll		2 23F0674-02 6/8/2023 3:00:00 PM		3 23F0674-03 6/8/2023 3:00:00 PM	
CAS Number	Kesidential	Commercial	Industrial	Result	Q	Result	1 0		1 0
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7440-36-0	2			1	1 1	1	1	1	
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Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

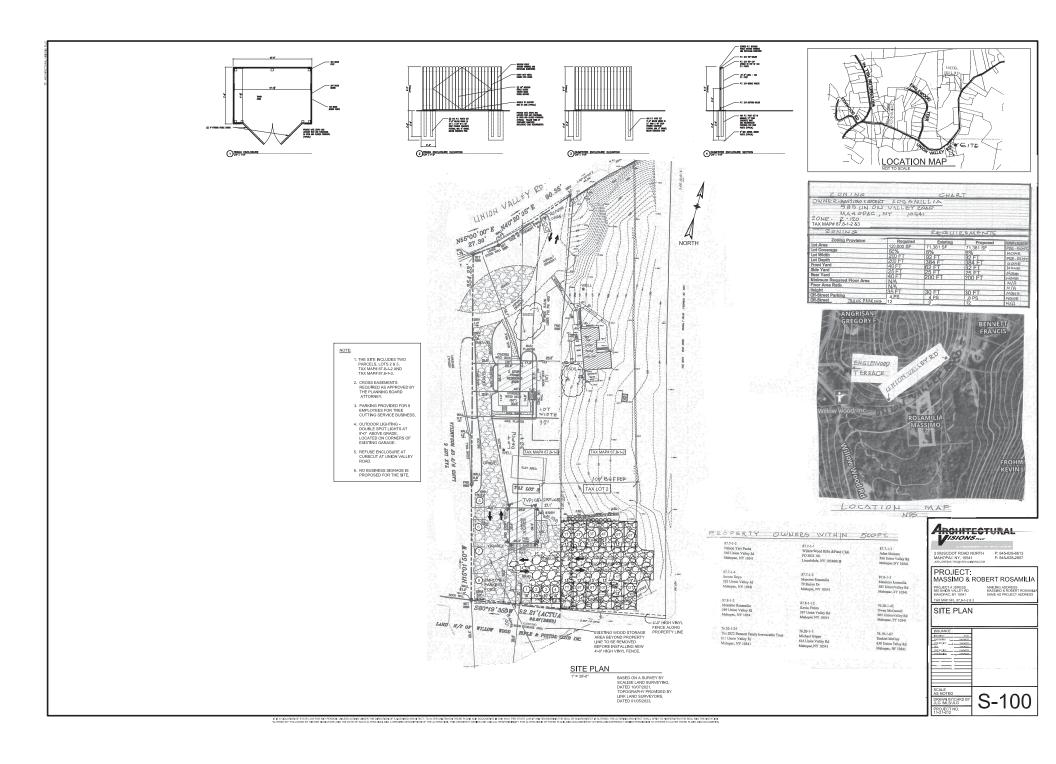
P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

DISCLAIMER:

York Analytical Laboratories, Inc. is providing this information as a convenience to you. York makes no representations or warranties that these data are accurate, complete or represent the latest regulatory authority limits or analytes. York is not responsible for any errors or omissions in these specific regulations. Your use of these data constitute your understanding of these limitations and you agree to hold York harmless from any and all action that may arise from use of said information. As regulations change often, we encourage the user to review the regulatory limits and lists of interest to confirm these data.





January 25, 2024

Mr. Craig Paeprer, Chairman Town of Carmel Planning Board 60 McAlpin Avenue Mahopac, NY 10541

Re:

Shllaku 2 Lot Subdivision

345 Austin Road

(T) Carmel

T.M. 64.9-1-13

Dear Chairman Paeprer and Members of the Board,

This project last appeared before the Planning Board on July 13, 2023. The parcel has a shared driveway with the northern neighbor and easements are in place for both properties to use the existing driveway. We have attached the deeds for both parcels for the Planning Board's attorney to review.

Access comes off Austin Road at 349 which is the adjoining neighbor to the north and then crosses over onto the Shllaku property before splitting off and having a segment of driveway cross back onto the neighbor's land.

We have discussed regrading the entrance and providing adequate site distance with the DeFinos (northern neighbor). We have prepared a grading plan and reviewed the plan with the DeFinos.

The current proposal is to regrade the entrance and comply with the Town driveway standards. A new easement area will be executed for all lots.

I have attached copies of both easements as they appear in each property owner's deed.

Sincerely,

PUTNAM ENGINEERING, PLLC

Paul M. Lynch, P.E.

PML/rrm

Attachments

L2155



PUTNAM COUNTY - STATE OF NEW YORK

MICHAEL C. BARTOLOTTI, COUNTY CLERK 40 GLENEIDA AVENUE, ROOM 100 CARMEL, NEW YORK 10512

COUNTY CLERK'S RECORDING PAGE ***THIS PAGE IS PART OF THE DOCUMENT -- DO NOT DETACH***



BOOK/PAGE: 2300 / 331 INSTRUMENT #: 10470-2022

Receipt#: 2022102350

Clerk: DT

Rec Date: 12/06/2022 03:40:09 PM

Doc Grp: D
Descrip: DEED
Num Pgs: 5

Rec'd Frm: BARTECH TITLE AGENCY INC

Party1: Party2: INZANO FRANK SHLLAKU RICHARD

Town:

CARMEL

64.9-1-13

Recording:

Cover Page	5.00
Recording Fee	40.00
Cultural Ed	14.25
Records Management - Coun	1.00
Records Management - Stat	4.75
Processing Fee	1,.00
Notice of Transfer of Sal	10.00
TP584	5.00
RP5217 - County	9.00
RP5217 Residential Vacant	241.00
Sub Total:	331.00
Transfer Tax	
Transfer Tax - State	1280.00
Sub Total:	1280.00

**** NOTICE: THIS IS NOT A BILL ****

***** Transfer Tax *****
Transfer Tax #: 1067

Transfer Tax

Consideration: 320000.00

Transfer Tax - State 1280.00

Total:

Total:

1280.00

1611.00

WARNING***

*** Information may be amended during the verification process, and may not be reflected on this cover page.

THIS PAGE CONSTITUTES THE CLERK'S ENDORSEMENT, AS REQUIRED BY SECTIONS 315, 316-a(5) & 319 OF THE REAL PROPERTY LAW OF THE STATE OF NEW YORK

Michael C. Bartolotti Putnam County Clerk

Record and Return To:

ALFRED A DELICATA ESQ 484 WHITE PLAINS RD EASTCHESTER NY 10709 Bargain and Sale Deed, with Covenants against Grantor's Acts - Individual or Corporation. CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT - THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

THIS INDENTURE, made the 8th day of November, 2022

BETWEEN

FRANK INZANO, residing at 124 Bullet Hole Road, Mahopac, NY 10541, party of the first part, and

RICHARD SHLLAKU & ARI SHLLAKU, residing at S9THURTON PLACE, party of the second part,

Vom IXE/S, IVEW Vor IC 10704

WITNESSETH, that the party of the first part, in consideration of ten dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected. situate, lying and being in the town of Carmel, County of Putnam and State of New York, more particularly bounded and described as shown on the Schedule A attached hereto and made a part hereof.

SEE SCHEDULED A ATTACHED.

BEING & INTENDED ON BEING the same premises conveyed to the grantor herein by deed made by Lorraine Caruana dated 6/23/2017 recorded on 6/20/2017 in liber 2048 page 191 in the office of the Putnam County Clerk;

TOGETHER with all right, title and interest, if any, of the party of the first part, in and to any streets and roads abutting the above-described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF

Old Republic National Title Insurance Company

SCHEDULE A DESCRIPTION OF PREMISES

Title No. 722-1220051

Section 64.9 Block 1 Lot 13 on the Tax Maps of the Town of Carmel, Putnam County.

1

ALL that certain plot piece or parcel of land, situate, lying and being in the Town of Carmel, County of Putnam and State of New York, being more particularly bounded and described as follows:

BEGINNING at a point on the road face of a stone wall on the westerly line of a public highway known as Austin Road where the said wall is intersected by another stone wall and which said point of beginning is distant 750 feet, more or less, as measured along said line of Austin Road from its intersection with the northerly side of Agor Road, and said point being also where said Austin Road is intersected by the dividing line between lands now or formerly of Edward P. Baker and lands herein described;

RUNNING THENCE along the center of a stone wall and along said lands of Baker, the following three courses and distances:

- 1) North 58 degrees 55 minutes 00 seconds West, 305.17 feet,
- 2) North 26 degrees 09 minutes 00 seconds East, 25.72 feet, and
- 3) North 66 degrees 04 minutes 20 seconds West, 290.52 feet to a point;

RUNNING THENCE South 08 degrees 53 minutes 10 seconds East, 16.13 feet to another point;

RUNNING THENCE along the center of another stone wall and along lands now or formerly of Edward P. Baker, South 18 degrees 14 minutes 30 seconds West, 171.94 feet to an intersecting stone wall;

RUNNING THENCE along the center of said intersecting stone wall and along said lands of Baker, North 55 degrees 30 minutes 40 seconds West, 178.57 feet and North 59 degrees 24 minutes 40 seconds West, 107.79 feet to a corner;

RUNNNG THENCE along the center of another stone wall and lands now or formerly of Edward P. Baker, the following three courses and distances:

- 1) North 16 degrees 42 minutes 50 seconds East, 214.25 feet,
- 2) North 17 degrees 37 minutes 40 seconds East, 249.72 feet, and
- 3) North 18 degrees 14 minutes 50 seconds East, 123.40 to another intersecting stone wall;

-continued-

Old Republic National Title Insurance Company

SCHEDULE A CONTINUED PAGE 2 OF 2 DESCRIPTION OF PREMISES

Title No. 722-1220051

RUNNING THENCE along the center of said stone wall and along lands now or formerly of Edward P. Baker, South 53 degrees 01 minute 40 seconds, East, 338.52 feet to a corner;

RUNNING THENCE along lands now or formerly of Jan H. Jansen and Bo R. Jansen, the following three courses and distances:

- 1) South 25 degrees 07 minutes 15 seconds West, 254.77 feet,
- 2) South 66 degrees 50 minutes 40 seconds East, 292.95 feet, and
- 3) South 58 degrees 55 minutes 00 seconds East, 314.75 feet to the westerly line of Austin Road;

RUNNING THENCE along the westerly line of Austin Road, South 29 degrees 51 minutes 50 seconds West, 148.12 feet to the point or place of BEGINNING.

The policy to be issued under this report will insure the title to such building and improvements erected on the premises which by law constitute real property.

FOR CONVEYANCING ONLY:

TOGETHER with all right, title and interest of the party of the first part, of, in and to the land lying in the street in front of and adjoining said premises.

DESCRIPTION

Acknowledgment Taken Within New York State (RPL 309	(a))
State of New York :	
County of Westchel ss.:	
On the day of in the year 20 FRANK INZANO, personally known to me or proved to rindividual(s) whose name(s) is (are) subscribed to the within executed the same in his/her/their capacity(ies), and that individual(s), or the person upon behalf of which the individual Notary Public	ne on the basis of satisfactory evidence to be the instrument and acknowledged to me that he/she/they by his/her/their signature(s) on the instrument, the
Acknowledgment Taken Outside New York State (RPL 3	09(b))
State, District of Columbia,	
Territory, Possession, or ss.:	
Foreign Country	
On the day of in the y appeared basis of satisfactory evidence to be the individual(s) whose and acknowledged to me that he/she/they executed the his/her/their signature(s) on the instrument, the individual(s) acted, executed the instrument.	e name(s) is (are) subscribed to the within instrument e same in his/her/their capacity(ies), and that by
Notary Public	
	722-1220051
BARGAIN AND SALE DEED WITH COVENANTS	ADDRESS: 345 Austin Road Mahopac, NY
Frank Inzano	SECTION: 64.9 BLOCK:1
Talk (iizaiio	LOT:13
ТО	COUNTY:Putnam
Frank Shilaku Ari Shilaku	Record and Return to: Alfred A. Delicata, Esq. 484 White Plains Road Eastchester, NY 10709

STATE OF NEW YORK COUNTY OF NEW YORK LINEA 72.4 STATE OF NEW YORK COUNTY OF On the 5th day of 1980 , before me On the day of personally came , before me personally came John F. Alberti and Marilyn Alberti to me known to be the individual's described in and who executed the foregoing instrument, and acknowledged that to me known to be the instrument, and acknowledged that to me known to be the individual Helle LIONEL J. HILLBURN Notary Public, State of New York No. 41 1799175 Qualitled in Queens County Commission Expires March 30, 1081 STATE OF NEW YORK, COUNTY OF STATE OF NEW YORK, COUNTY OF On the day of On the , before me day of personally came personally came , before me to me known, who, being by me duly sworn, did depose and say that he resides at No. personally came the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No. that he is the that he knows , the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to be the individual described in and who executed the foregoing instrument; to said instrument is such corporate seal; that it was so he, said subscribing witness, was present and saw that affixed by order of the board of directors of said corporaexecute the same; and that he, said witness, tion, and that he signed h name thereto by like order. at the same time subscribed h name as witness thereto. REAL ESTATE AUG 2 5 1980 TRANSPER = 4 PUTNIAM COUNTY Bargain and Sale Deed SECTION WITH COVENANT AGAINST GRANTOR'S ACTS BLOCK TITLE NO. 10.00 LOT 5A A5 COUNTY OR TOWN Carmel TAX BILLING ADDRESS austin Rd. TO mahapac an 105 81 Recorded At Request of The Title Guarantee Company RETURN BY MAIL TO: Stephen A. Abeli 154 8. Mn. N St. Distributed by

STANDARD FORM OF NEW YORK BOARD OF TITLE UNDERWRITERS



A TICOR COMPANY

Brewster, New York

Zip No. /0509

PUTNAM COUNTY CLERK'S OFFICE RECEIVED ON THE AND DAY OF A 19-

OF RECORDING OFFICE KEDEKYE IMID SYALE PUK USE CONSULT YOUR LAWYER REPORT SIGNING THIS INSTRUMENT—THIS INSTRUMENT STOULD BE USED BY LAWYERS ONLY.

THIS INDENTURE, made the 5th day of August , nineteen hundred and alghty

JOHN F. ALDERTI and MARILYN ALBERTI, His wife, proviously of Mahapag, N.Y., now of Manhamant, N.Y.

TI SHIE

party of the first part, and

STEPHEN DE FINO and MARIANN DE FINO, his wife

party of the second part,

WITNESSETH, that the party of the first part, in consideration of

one hundred

dollars

lawful money of the United States,

to them

paid

by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate,

lying and being in the Town of Carmel, County of Putnam and State of New York being bounded and described as follows:

BEGINNING at a point on the assumed Northwesterly side of Austin Road distant 154.22 feet Northeasterly from a point where said assumed Northwesterly side of Austin Road is intersected by the Northerly line of land now or formerly of Edward P. Baker and which point is also 904.22 feet more or less Northeasterly as measured along said assumed Northwesterly side of Austin Road from the corner formed by the intersection of the same with the Northerly side of Agor Road; thence running North 58° 55' 00" West 314.75 feet and North 66° 50' 40" West 292.95 feet along other lands of Richard H. Sampietro and Evelyn R. Sampietro, his wife; thence running still along said other lands, North 25° 07' 15" 254.77 feet to other lands now or formerly of Edward P. Baker; thence running along said land now or formerly of Edward P. Baker, South 53° 01' 40" East 620.45 feet to the assumed Northwesterly side of Austin Road; thence running along said assumed Northwest line of Austin Road, South 25° 39' 30" West 150.00 feet to the point or place of beginning.

TAX MAP
DESIGNATION
Dist
Sec

BIk

Loi(s)

Together with an easement for all normal purposes of ingress or agress over a 10 foot dirt drive the center of which is described as follows: Beginning at a point which is distant from a point on the assumed Northwesterly side of Austin Road at the Northeesterly corner of the above described parcel, the following courses and distances: Along the said Northwesterly side of Austin Road South 25° 39′ 30″ West 31.24 feet; along the center of the aforesaid dirt drive North 50° 49′ 30″ West 34.19 feet; North 73° 56′ 40″ West 18.32 feet South 84° 45′ 10″ West 31.45 feet and South 60° 46′ 40″ West 114.72 feet: Thence from said point of beginning which is located in the Southwesterly line of the premises described above and continuing along the center line of the said dirt drive the following courses and distances: South 60° 46′ 40″ West 18.55 feet South 67° 49′ 10″ West 112.96 feet North 87° 48′ 40″ West 42.03 feet North 43° 03′ 50″ West 65.30 feet North 71° 21′ 10″ West 52.99 feet North 54° 15′ 50″ West 21.91 feet North 12° 48′ 00″ West 39.72 feet North 12° 30′ 20″ East 75.70 feet to the Southwesterly line of the premises described above. Being and intended to be the premises conveyed to the party of the first part by Richard H. Sampietro and Evelyn R. Sampietro, his wife, by deed dated June 28,1968, and recorded in Putnam County'Clerk's records in Liber 668 of Deeds at pages 885-887.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof,

TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises,

TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been incumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration eration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires:

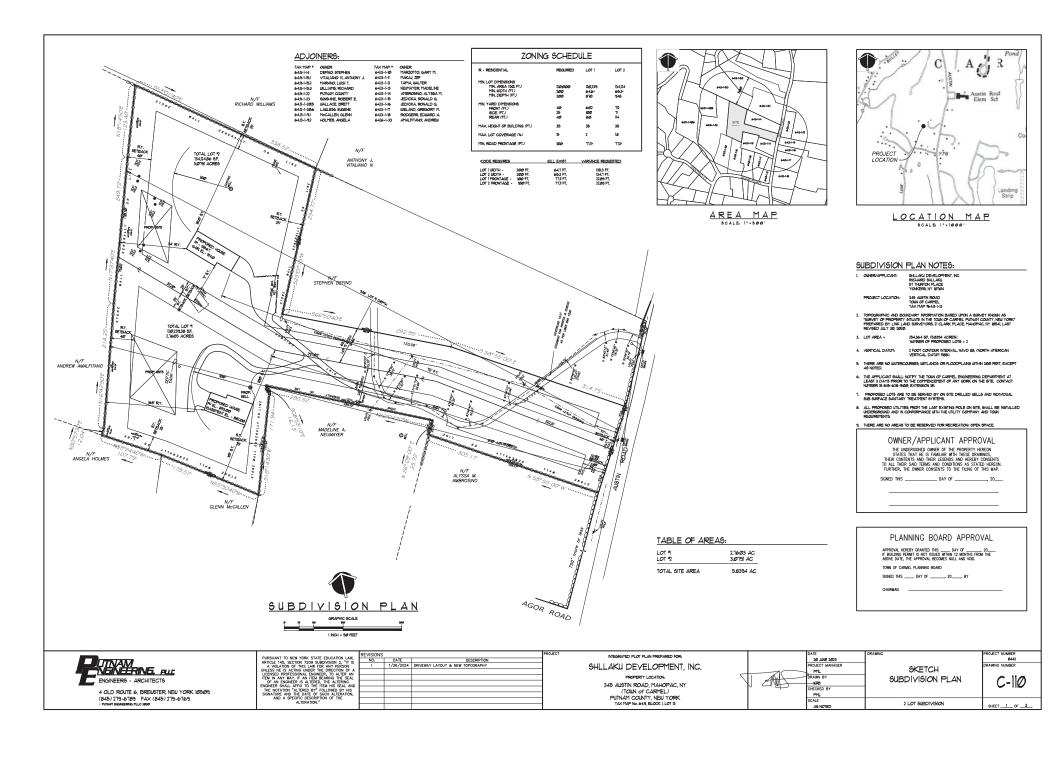
IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above

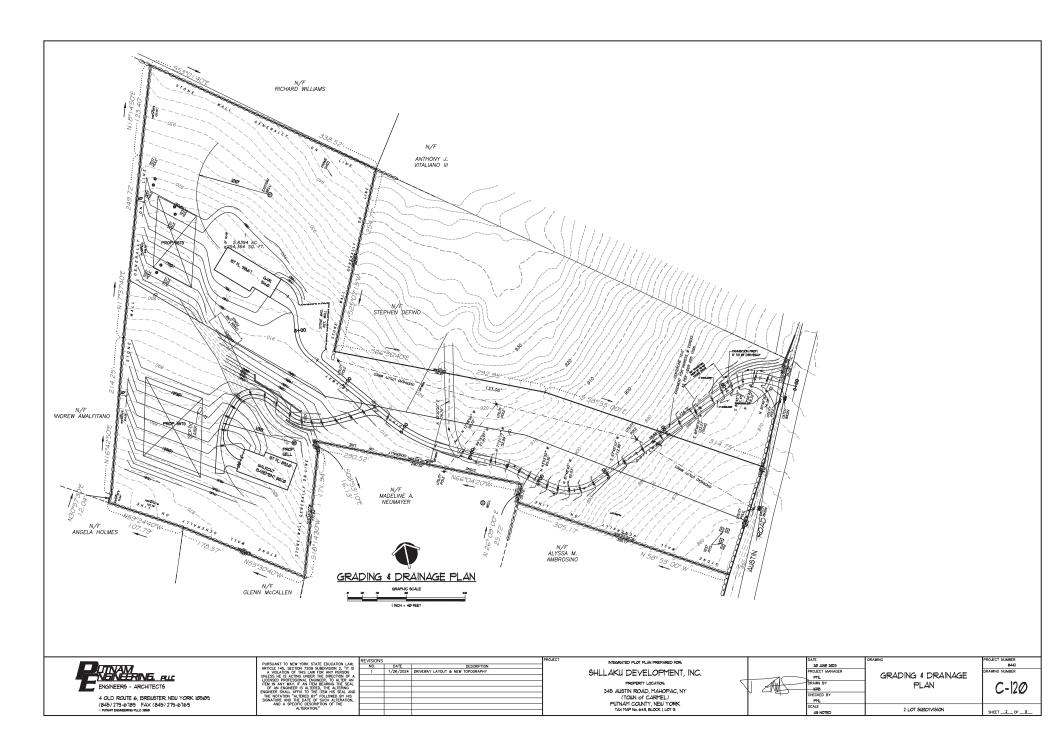
written.

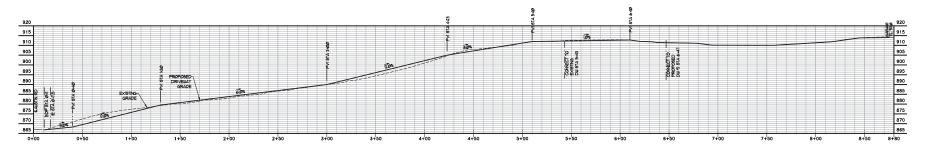
IN PRESENCE OF:

t Joh & Alburosi 8 x Marclyn Celbut.

HBER 771 PAGE 941

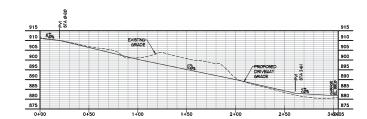






A PROPOSED DRIVEWAY PROFILE LOT *2

CC-121 SCALE HORZ (*-36) YERI, (*-8)*



B PROPOSED DRIVEWAY PROFILE LOT # 6CALE HORZ: 17-367, VERT. 17-367



4 OLD ROUTE 6, BREWSTER, NEW YORK 10509 (845) 219-6189 FAX (845) 219-6169 FUTUAN DISNEEPING PLLC 2000

PURSUANT TO NEW YORK STATE EDUCATION LAW,	H
ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS	ŀ
A VIOLATION OF THIS LAW FOR ANY PERSON	ı
UNLESS HE IS ACTING UNDER THE DIRECTION OF A	Г
LICENSED PROFESSIONAL ENGINEER, TO ALTER AN	H
ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL	ı
OF AN ENGINEER IS ALTERED, THE ALTERING	r
INGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND	ŀ
THE NOTATION "ALTERED BY" FOLLOWED BY HIS	ı
SIGNATURE AND THE DATE OF SUCH ALTERATION.	Г
AND A SPECIFIC DESCRIPTION OF THE	H
ALTERATION *	

KE VISIONS			
NO.	DATE	DESCRIPTION	
1	1/26/2024	DRIVEWAY LAYOUT & NEW TOPOGRAPHY	
	1		

NTEGRATED PLOT PLAN PREPARED FOR SHLLAKU DEVELOPMENT, INC.

PROPERTY LOCATION.

345 AUSTIN ROAD, MAHOPAC, NY
(TOUN OF CARTIEL)
PUTNAM COUNTY, NEW YORK
TAX MAP No. 649, BLOCK (LOT B

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_	DATE	DRAWING
	20 JUNE 2023	
	PROJECT MANAGER	DRIVEWAY PROFILES
_	PML	
_	DRAWN BY	•
_	KZB	DETAILS
	CHECKED BY	DE:////LO
	PML PML	
	SCALE	2 LOT SUBDIVISION
	AS NOTED	2 LOT SUBDIVISION
_		

PROJECT NUMBER
8442
DRAWING NUMBER
C = 121
SHEET 3 OF 3



January 25, 2024

Mr. Craig Paeprer, Chairman Town of Carmel Planning Board 60 McAlpin Avenue Mahopac, NY 10541

Re:

Kass 2 Lot Subdivision

90 Mexico Lane T.M. 53-2-17

Dear Chairman Paeprer and Members of the Board,

As discussed at our last meeting, Putnam Engineering has prepared plans showing the existing tax lots in the vicinity of the Kass property. We have prepared three (3) drawings. The first drawing shows the existing tax map. The second drawing shows the proposed subdivision and how the created lots compare to adjoiners. The third map adds constraints to all the properties. N.Y.C.D.E.P. watershed topography at two (2) foot contour interval was used for this plan. The constraints show lands sloping between 0 and 15 percent, 15 to 25 percent and greater than 25 percent. We also added N.Y.S.D.E.C. regulated wetland OL-52 which was taken from D.E.C. mapping.

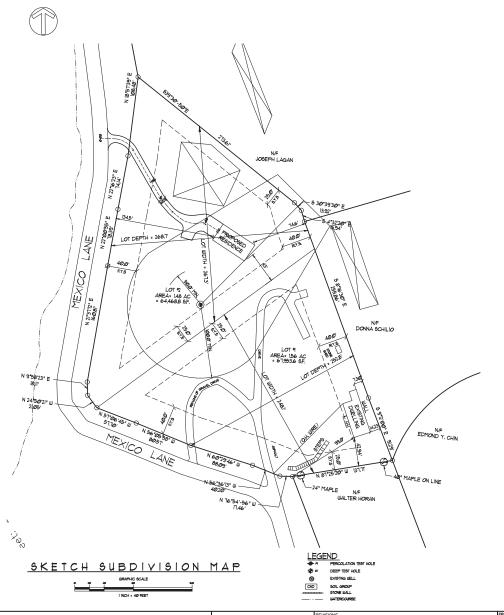
Sincerely,

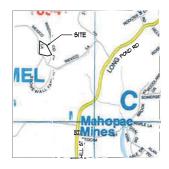
PUTNAM ENGINEERING, PLLC

Paul M. Lynch, P.E.

PML/rrm

Attachments





AREA MAP

ADJOINERS:

53.-2-14

TAX MAP * OMER TAX MA

ZONING SCHEDULE				
R - RESIDENTIAL	REQUIRED	LOT I	LOT 2	
MIN LOT DIMENSIONS				
MIN AREA (SQ. FT.)	20000	67,953,61	64,468,8	
MIN WIDTH (FT.)	200	248.1	2673	
MIN, DEPTH (FT.)	200	252.8	268.7	
MIN, YARD DIMENSIONS				
FRONT (FT.)	40	99	1345	
SIDE (FT.)	25	42.94	43	
REAR (FT.)	40	130	145	
MAX HEIGHT OF BUILDING (FT.)	35	35	38	
MAX, LOT COVERAGE (%)	В	9.84	6.19	
MIN, ROAD PRONTAGE (FT.)	100	284.002	46@98	

53.-2-241

 CODE REQUIRES
 REQUIRED
 ULL EXIST
 VARIANCE REQUESTED

 LOT 1 AREA 100,000 SF.
 61,953.6 SF.
 52,046.4 SF.

 LOT 2 AREA 100,000 SF.
 64,468.6 SF.
 55,5312 SF.

TABLE OF AREAS:

LOT %= 61,953.6 SF. 156 AC LOT %= 64,468.8 SF. 148 AC TOTAL SITE=132,422.4 SF. 3.04 AC

LOT *I NEEDS REAR YARD SETBACK VARIANCE OF 32,70 FEET.



LOCATION MAP

SUBDIVISION PLAN NOTES:

L OWNER/APPLICANT: AARON KA96
25 CAROLAN ROAD I
CARYEL, NY 19592
PROJECT LOCATION: 90 MEXICO LANE

TOUN OF CARMEL TAX MAP 53,-2-1

TOPOGRAPHIC AND BOUNDARY INFORMATION BASED UPON A SURVEY KNOWN AS "SURVEY OF PROPERTY PREPARED FOR ALBERT F, 4 HELEN HICHBOTHEM" PREPAR BY RICHARD H, GORR, PLS, DATED JANUARY 29, 1980.

3. LOT AREA = B2,422.4 9F, (3,0/4 ACRES).
NUMBER OF PROPOSED LOTS = 2

NUMBER OF PROPOSED LOTS :

VERTICAL DATUM: 2 POOT CONTOUR INTERVAL, NAVO 88, (NORTH AMERICAN VERTICAL DATUM 1988).

THERE ARE NO MATERCOURSES, METLANDS OR FLOODPLANS WITHIN 2009 FEET, EXCEPT
AS NOTED.

THE AREM CONT. SHALL NOTEY THE TOTAL OF CARMED ENGAPERISMS DEPARTMENT AT

 THE APPLICANT SHALL NOTIFY THE TOWN OF CARTIEL ENGINEERING DEPARTMENT AT LEAST 3 DAYS PRIOR TO THE CONTENCEMENT OF ANY WORK ON THE SITE. CONTACT NUMBER IS 849-628-8000, EXTENSION ISI.

PROPOSED LOTS ARE TO BE SERVED BY ON SITE DRILLED WELLS AND NOMIDUAL SUB-SURFACE SANITARY TREATMENT SYSTEMS.

ALL PROPOSED UTILITIES, FROM THE LAST EXISTING POLE ON SITE, SHALL BE INSTALL! UIDERSROUND AND IN CONFORMANCE WITH THE UTILITY COMPANY AND TOWN REQUIREMENTS.

9. THERE ARE NO AREAS TO BE RESERVED FOR RECREATION OPEN SPACE.

OWNER/APPLICANT APPROVAL

THE UNDERSIGNED OWNER OF THE PROPERTY HEREON STATES THAT HE IS FAMILIAR WITH THESE DRAWNIGS, THER CONTENTS AND THER LEGENDS AND HEREBY CONSENTS TO ALL THER SAND TERMS AND COMPITIONS AS TATED HEREON, FURTHER, THE OWNER CONSENTS TO THE FILING OF THIS MAP.

)	THIS	 DAY	OF	 20	

PLANNING BOARD APPROVAL

TOWN OF CARNEL PLANNING BOARD
SIGNED THIS _____ DAY OF _____, 20____, BY

CHAIRMAN

PUTNAM NENEERINE. PUT ENGINEERS - ARCHITECTS

4 OLD ROUTE 6, BREWSTER, NEW YORK 10509 (845) 219-6189 FAX (845) 219-6169 FUNAL BISINEEPIN BLUE 2005

PURSUANT TO NEW YORK STATE EDUCATION LAW, AFTICLE 14S, SECTION 7000 SUBBONSON 2, 71 IS WILLIAM TO THE TOWN TO SECTION STATE OF THE TOWN TO NUMESS HE IS AFTIC MORE THE DETECTION OF A LUCKEST PROFESSIONAL DEMERS. TO A LITE AN OF AN ENGAGER IS ALTERION. THE ALTERIOR OF AN ENGAGER IS ALTERION. THE ALTERIOR DEMONSTRATE AND THE ALTERIOR AND A SPECIFIC DESCRIPTION OF THE PROFESSION OF THE PROFESSION AND A SPECIFIC DESCRIPTION OF THE PROFESSION OF

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
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PLAN PREPARED FOR:
AARON KASS

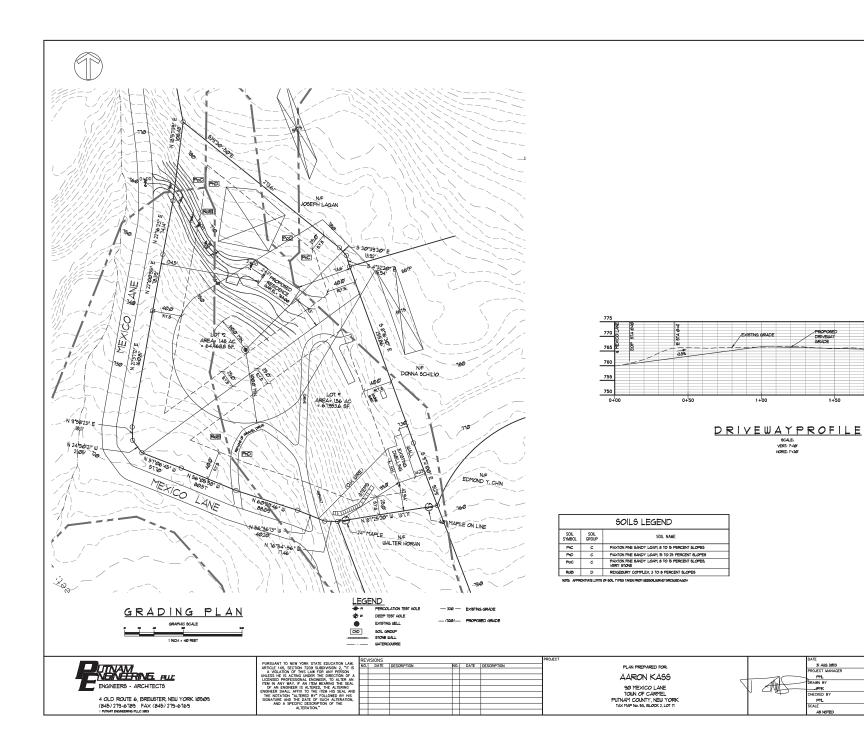
90 MEXICO LANE TOUN OF CARMEL PUTNAM COUNTY, NEW YORK TAX MAP No. 53, BLOCK 2, LOT IT



_	DATE	DRAWIN
	3l AUG 2003	l
	PROJECT MANAGER	1
_	FML	l
_	DRAWN BY	l
_	PMK	l
	CHECKED BY	1
	FML	l
	SCALE	

SKETCH SUBDIVISION MAP PROJECT NUMBER 8443J DRAWING NUMBER

SHEET _ 1 _ 0F _ 2



770

765 760

755

750

GRADING PLAN

PROFILE

SKETCH SUBDIVISION MAP

C-120

SHEET 2 OF 2

