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:

ILLINOIS PROPERTIES 26 LLC

Village of New Hempstead, Rockland 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.

Date: April 12, 2024
Job No. 5030

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

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ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND 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
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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 Stormwater 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:

Illinois Properties 26 LLC
Village of New Hempstead
Rockland County, New York
Village of New Hempstead Tax Map: Section 42.18, Block 2, Lot 24.

2.2 Owner/Operator Name & Address:

Illinois Properties 26, LLC
Attention: Hillel Kahan
51 Forest Road, Unit 316-84
Monroe, NY 10950
Phone: 845-293-3570
Email: hkahan@platinumdevlp.com

2.3 General Contractor*:

_____
(Company Name)

_____
(Street Address)

_____
(City, State, Zip Code)

_____
(Phone Number)

*Note – General Contractor shall be identified prior to commencement of work.

2.4 Description:

The project is located at 775 North Main Street, in the Village of New Hempstead, Rockland County, New York. The site has an area of about 3.11 acres. The existing site consists of a two-story masonry building, one-story building, parking lot, wood/grass cover and some landscaping areas. The proposed development includes the construction of a two-story addition on the west side of the existing two-story masonry building, parking lot, and some landscaping areas.

Soil Name	Soil Map Symbol	Hydrological Soil Group
Watchaug fine sandy loam	Wc	C
Wethersfield gravelly silt loam, 3 to 8 percent slopes	WeB	C

* Source: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx
** HSG "C" was used in the drainage calculations.

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:

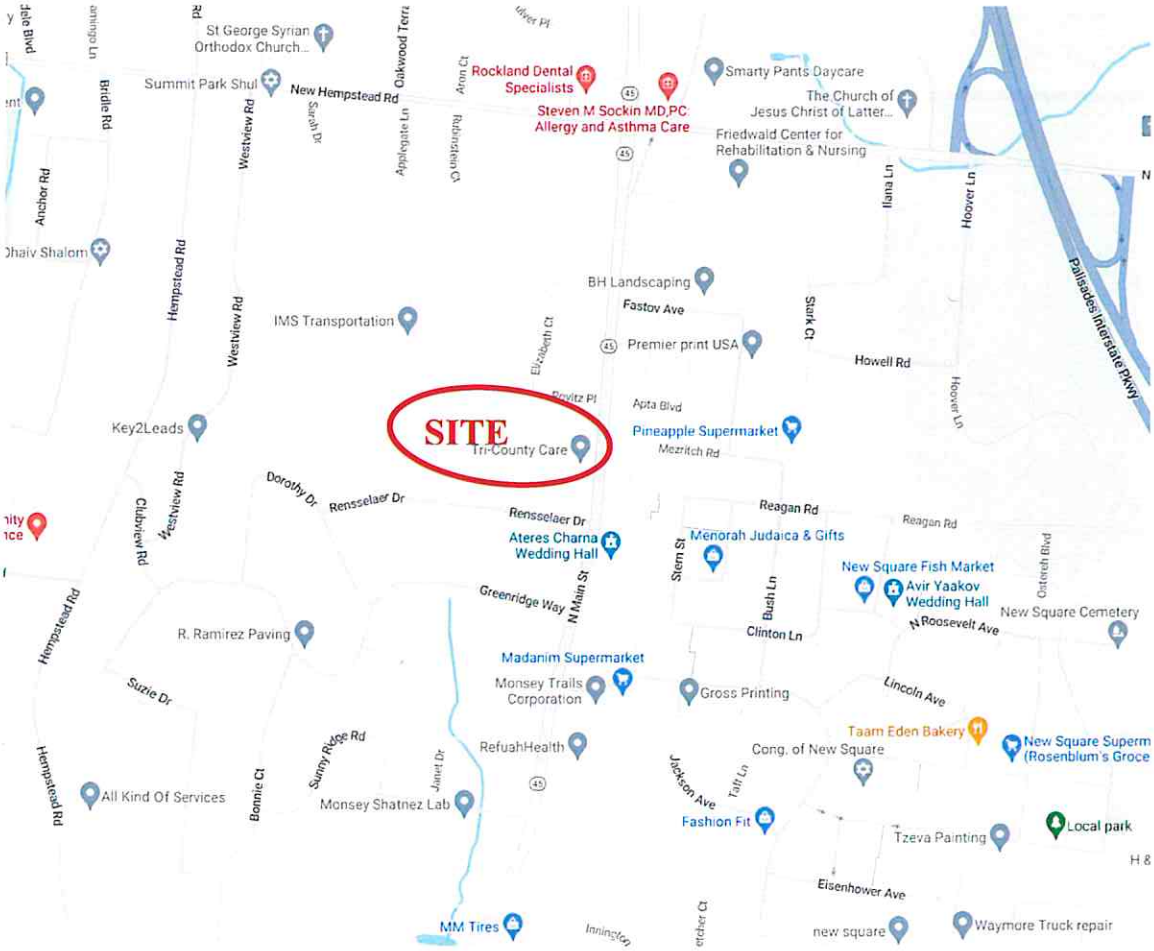
Impervious cover within the planned disturbance will increase from 0.834 acres in the existing condition to 1.227 acres in the proposed condition.

2.6 Site Area:

The site is approximately 3.11 acres, and 1.054 acres will be disturbed by the proposed construction activities.

2.7 Location Map:

NORTH



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: Paving and utilities construction

Phase 5: Final Grading, landscaping

The general order of activities will be as follows:

1. 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 topsoil and stabilize.
8. Perform rough grading/cut & fill and stabilize inactive areas.
9. 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.
13. 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, super silt fence, storm inlet protection, stockpile, concrete washout, and stabilized construction entrance.

3.3 Stormwater Management Water Quality:

Stormwater runoff generated by parking, and the rooftop will be directed towards the proposed underground infiltration system through a combination of sheet flow, catch basin, pipes, and a pretreatment system.

The stormwater management system has been designed to comply with the most recent NYSDEC design manual requirements. The underground infiltration system is designed to treat the first flush water quality volume of the 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 Village of New Hempstead.

3.3.1 Name of Receiving Waters:

Tributary watercourse to PASCACK BROOK. The site is not located in a designated TMDL watershed area.

3.4 Peak Flow Attenuation:

In order to provide the zero net increase of peak runoff an Underground Infiltration System has been proposed.

3.5 Runoff Conveyance Systems:

The stormwater pipes 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 metal dumpsters rented from _____, a solid waste management company located in Rockland County (name of carting company to be identified 30 days prior to commencement of work). The dumpsters will meet Village of New Hempstead, Rockland 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. Notices 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 Certification of Compliance With Federal, State And Local Regulations:

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
9. 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)

_____
(Printed Name & Title)

_____

_____

_____
(Company Name, Address & Telephone Number)

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:

Illinois Properties 26 LLC, Village of New Hempstead, Rockland 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 March 08, 2023):

'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** _____	_____
Name of Construction Site	*DEC Permit ID*	*Municipality (MS4)*

"I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version 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. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Responsible Corporate Officer/Partner Signature	Date
Name of above Signatory	Name of Company
Title of above Signatory	Mailing Address
Telephone of Company	City, State, and Zip

Identify the specific elements of the SWPPP the contractor or subcontractor is responsible for:

***'TRAINED CONTRACTOR'* FOR THE CERTIFIED CONTRACTOR OR SUBCONTRACTOR**		
_____	_____	_____
Name of Trained Employee	*Title of Trained Employee*	*NYSDEC SWT #*

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

Appendix - A

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND COUNTY
NEW YORK

APPENDIX-A

CONSTRUCTION SITE LOGBOOK

BY

ATZL, NASHER & ZIGLER
ENGINEERS-SURVEYORS-PLANNERS
232 NORTH MAIN STREET
NEW CITY, NY 10956
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E-MAIL: rnasher@anzny.com

NY STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM
FOR CONSTRUCTION ACTIVITIES

SWPPP CONSTRUCTION SITE LOG BOOK

For

ILLINOIS PROPERTIES 26 LLC

Village of New Hempstead
Rockland County, New York

ATZL, NASHER & ZIGLER
232 North Main Street, New City, NY 10956
Tel: (845) 634-4694, Fax: (845) 634-5543, Email: rnasher@anzny.com

Table of Contents

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.

I. PRE-CONSTRUCTION MEETING DOCUMENTS

Project Name Illinois Properties 26 LLC
Permit No. _____ **Date of Authorization** _____
Name of Operator _____
Prime Contractor _____

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 professional[1] conduct an assessment of the site prior to the commencement of construction[2] 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 stabilization[3] 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. Qualified Professional's Credentials & Certification

"I hereby certify that I meet the criteria set forth in the General Permit to conduct site inspections for this project and that the appropriate erosion and sediment controls described in the SWPPP and as described in the following Pre-construction Site Assessment Checklist have been adequately installed or implemented, ensuring the overall preparedness of this site for the commencement of construction."

Name (Please Print):_____

Title _____**Date:**_____

Address: _____

Phone: _____ **Email:**_____

Signature:_____

d. Pre-construction Site Assessment Checklist (NOTE: Provide comments below as necessary)

1. Notice of Intent, SWPPP, and Contractors Certification:

Yes No NA

[ ] [ ] [ ] Has a Notice of Intent been filed with the NYS Department of Conservation?
[ ] [ ] [ ] Is the SWPPP on-site? Where?_____
[ ] [ ] [ ] Is the Plan current? What is the latest revision date?_____
[ ] [ ] [ ] Is a copy of the NOI (with brief description) onsite? Where?_____
[ ] [ ] [ ] Have all contractors involved with stormwater related activities signed a contractor's certification?

Pre-construction 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;

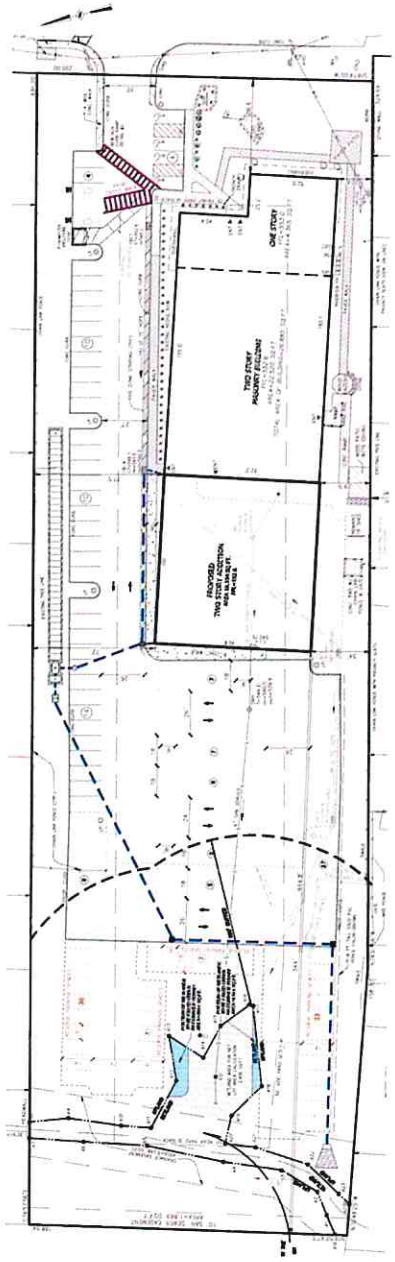
(3) Indicate all disturbed site areas that have not undergone active site work during the previous 14-day period;

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.

CONSTRUCTION DURATION INSPECTIONS



SITE PLAN/SKETCH

Inspector (Print Name) _____ **Date of Inspection** _____

Qualified Professional (Print Name) _____ **Qualified 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

Maintaining Water Quality

Yes No NA

[ ] [ ] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural 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?

Housekeeping

1. General Site Conditions

Yes No NA

[ ] [ ] [ ] 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?
[ ] [ ] [ ] Is construction impacting the adjacent property?
[ ] [ ] [ ] Is dust adequately controlled?

2. Temporary 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 Control Practices

1. Excavation 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.
[ ] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.
[ ] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader

Yes No NA

[ ] [ ] [ ] Installed per plan.
[ ] [ ] [ ] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [ ] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA

[ ] [ ] [ ] 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

Yes No 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?.

5. Rock Outlet Protection

Yes No NA

[ ] [ ] [ ] Installed per plan.
[ ] [ ] [ ] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

[ ] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[ ] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

[ ] [ ] [ ] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [ ] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control

1. Stabilized Construction Entrance

Yes No 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?

2. Silt Fence

Yes No NA

[ ] [ ] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[ ] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[ ] [ ] [ ] Fabric buried 6 inches minimum.
[ ] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [ ] Sediment accumulation is ___% of design capacity.

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No 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 1acre 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 max 8-inch spacing.
[ ] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [ ] Sediment accumulation ___% of design capacity.

4. Temporary 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. Temporary Sediment Basin

Yes No NA

[ ] [ ] [ ] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [ ] 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.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
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:

III. Monthly Summary of Site Inspection Activities

Name of Permitted Facility:	Today's Date:	Reporting Month:
Location:	Permit Identification #:	
Name and Telephone Number of Site Inspector:		

Date of Inspection	Regular / Rainfall based Inspection	Name of Inspector	Items of Concern

Owner/Operator 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. I am aware that false statements made herein are punishable as a class A misdemeanor pursuant to Section 210.45 of the Penal Law."

Signature of Permittee or Duly Authorized Representative

Name of Permittee or Duly Authorized Representative date

Duly authorized representatives must have written authorization, submitted to DEC, to sign any permit documents.

Appendix - B

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND 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: **ILLINOIS PROPERTIES 26 LLC**
Location: Village of New Hempstead, Rockland County, NY

Site Status: _____

Date of Inspection: _____

Time of Inspection: _____

Weather Conditions (including recent rainfall): _____

Inspector's Name: _____

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
1. Pre-Construction/Materials and Equipment		
Pre-construction meeting		
Pipe and appurtenances on-site prior to construction and dimensions checked		
1. Material (including protective coating, if specified)		
2. Diameter		
3. Dimensions of metal riser or pre-cast concrete outlet structure		
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		
8. Outlet drain valve		
Project benchmark near pond site		
Equipment 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		
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		
B. Pipe placement		
Metal / plastic pipe		
1. Watertight connectors and gaskets properly installed		
2. Anti-seep collars properly spaced and having watertight connections to pipe		
3. Backfill placed and tamped by hand under "haunches" of pipe		
4. 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		
1. Pipe set on blocks or concrete slab for pouring of low cradle		
2. Pipe installed with rubber gasket joints with no spalling in gasket interface area		
3. Excavation for lower half of anti-seep collar(s) with reinforcing steel set		

4. Entire area where anti-seep collar(s) will come in contact with pipe coated with mastic or other approved waterproof sealant		
5. Low cradle and bottom half of anti-seep collar installed as monolithic pour and of an approved mix		
6. Upper half of anti-seep collar(s) formed with reinforcing steel set		
7. Concrete for collar of an approved mix and vibrated into place (protected from freezing while curing, if necessary)		
8. Forms stripped and collar inspected for honeycomb prior to backfilling. Parge if necessary.		
C. Backfilling		
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		
CONSTRUCTION SEQUENCE	**SATISFACTORY/ UNSATISFACTORY**	**COMMENTS**
Set on blocks to design elevations and plumbed		
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		
B. Pre-cast concrete structure		

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		
1. Fill placed in specified lifts and compacted with appropriate equipment		
2. Constructed to design cross-section, side slopes and top width		
3. 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		
7. Earth Emergency Spillway Construction		
Spillway located in cut or structurally stabilized with riprap, gabions, concrete, etc.		
Excavated to proper cross-section, side slopes and bottom width		
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		
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:

Appendix- C

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND COUNTY
NEW YORK

APPENDIX-C

SPILL CONTROL AND PREVENTION LOG

BY

ATZL, NASHER & ZIGLER
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232 NORTH MAIN STREET
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E-MAIL: rnasher@anzny.com

SPILL CONTROL & PREVENTION LOG

ILLINOIS PROPERTIES 26 LLC

Village of New Hempstead

Rockland County, New York

Date of Spill	Material Spilled	Spill Location	Cause	Cleanup	Agency Reported (Toxic/Hazardous)	Reoccurance Prevention Measure

Appendix-D

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND COUNTY
NEW YORK

APPENDIX-D
MAINTENANCE AGREEMENT

BY

ATZL, NASHER & ZIGLER
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232 NORTH MAIN STREET
NEW CITY, NY 10956
TEL: (845) 634-4694
FAX: (845) 634-5543
E-MAIL: rnasher@anzny.com

STORMWATER FACILITIES MAINTENANCE PLAN AGREEMENT
RE: ILLINOIS PROPERTIES 26 LLC
(TAX MAP DESIGNATION: 42.18-2-24)

Whereas, the Village of Hempstead ("Village") and Illinois Properties 26 LLC ("Facility Owner") want to enter into an agreement to provide for the long term maintenance and continuation of stormwater control measures approved by the Village for the above named project, and

Whereas, the Village 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 Village and the Facility Owner agree as follows:

1. This agreement 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 erect or post, in the immediate vicinity of the stormwater management facilities, a conspicuous and legible sign of not less than (18" X 24") or (10" X 12" for footprints smaller than 400 sq.ft.) bearing information shown on Schedule B.

3. The Facility Owner shall maintain, clean, repair, replace and continue the stormwater control measures as listed in Schedule C 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: drainage pipes, catch basins, pre-treatment systems, underground infiltration systems, control structures etc., but only to the extent that the same are shown on Schedule C.

4. 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.

5. The Facility Owner shall provide for the annual inspection of the stormwater control measures, in perpetuity, to determine the condition and integrity of the measures. A Professional Engineer licensed by the State of New York shall perform such inspection. The inspecting engineer shall prepare and submit to the Village 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.

6. 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 Village.

7. The Facility Owner shall undertake all necessary repairs and replacement of the stormwater control measures at the direction of the Village or in accordance with the recommendations of the inspecting engineer within 60 days of the directive or inspection.

8. The Facility Owner shall provide to the Village, prior to Mayor's endorsement, a

security for the maintenance and continuation of the stormwater control measures in the form of a letter of credit or escrow account in the amount of $_____ for a period of 5 years.

9. This agreement shall be recorded in the Office of the County Clerk, County of Rockland.

10. If ever the Village 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 Village or by the inspecting engineer, the Village 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 tax lien against the property.

11. This agreement is effective as of the date of issuance of the first certificate of occupancy for the above referenced project.

Village of New Hempstead **Illinois Properties 26 LLC**

By: _____ By: _____
Abe Sicker, Mayor Hillel Kahan

State of New York, County of Rockland ss.:

On _____, before me, the undersigned, personally appeared Abe Sicker personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public

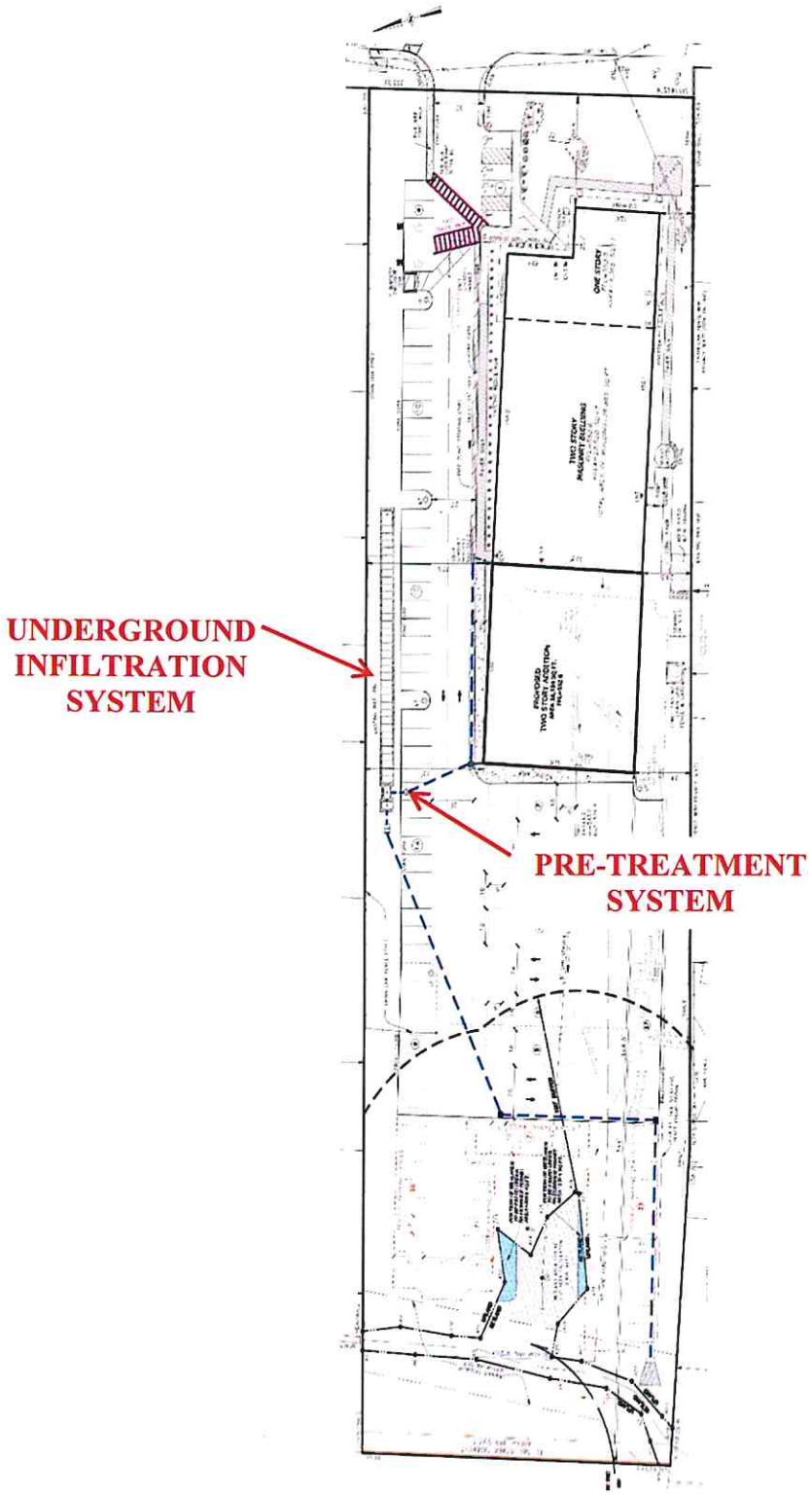
State of New York, County of _____) ss.:

On _____, before me, the undersigned, personally appeared Hillel Kahan personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public

SCHEDULE "A"

STORMWATER MANAGEMENT FACILITIES
(UNDERGROUND INFILTRATION SYSTEMS)
LAYOUT & LOCATION



SCHEDULE "B"

STORMWATER MANAGEMENT SYSTEM
INSPECTION AND MAINTENANCE SCHEDULE

Stormwater Structures:

- Stormwater pipe
- Catch Basins
- Pretreatment System (First Defense)
- Underground Infiltration System

Inspections Schedule:

- Stormwater Pipes:
  - Annual, after major storms: Check for debris at inlets, outlets, and cleanouts.
- Catch Basins:
  - Biannual, after major storms (check for trash, excessive sediment, and oil sheen).
- Pre-Treatment System (First Defense):
  - Biannual, after major storms (check for trash, excessive sediment, and oil).
- Underground Infiltration System:
  - Annual, after major storm: Check that pipes are clear of debris.
  - Annual, after major storm: Check that sediment storage does not exceed 15% capacity.
  - Annual, after major storm: Check that pipe dewaters.
  - Annual, after major storm: Check for oil accumulation.

Maintenance Schedule:

- Stormwater Pipes.
  - Clean as found necessary by inspection.
- Catch Basins:
  - Must be cleaned of sediment at least once per year during the month of April and at all other times as necessary to prevent the discharge of pollutants from the system.
- Pretreatment device (First Defense):
  - Clean out trash, sediment, and oil when necessary.
- Underground Infiltration System:
  - Clear inlets, outlets, and control structure of debris.

- Clean out oil, trash, and sediment.
- In subsequent years, inspections can be based on first year observations or local requirements.
- Inspect the unit immediately after an oil, fuel or chemical spill.
- A licensed waste management company shall remove oil and sediment and dispose responsibly per NYSDEC and Town of Clarkstown regulations.

Stormwater Piping
Inspection and Maintenance Checklist

Project: _____

Location: _____

Site Status: _____

Date: _____ **Time:** _____

Inspector Signature: _____ **Inspector Name (print):** _____

Inspection/Maintenance Items	Satisfactory or Unsatisfactory	Comments/Corrective Action
1. Inspection (Quarter-annually, After Major Storms)		
1. Accumulated sediment exceeds 10% of the diameter of the pipe.		
2. Vegetation the reduces free movement of water through pipes.		
3. Pipe damage: Any dent that increases flow area by more than 10% or puncture that impacts performance		
4. 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:

_____
_____
_____
_____
_____

Catch Basin
Inspection and Maintenance Checklist

Project: _____

Location: _____

Site Status: _____

Date: _____ **Time:** _____

Inspector Signature: _____ **Inspector Name (print):** _____

Inspection/Maintenance Items	Satisfactory or Unsatisfactory	Comments/Corrective Action
1. Inspection (Quarter-annually, After Major Storms)		
1. Accumulated debris or sediment depth exceed sump or impedes flow from inlet or outlet pipes		
2. Inlet or outlet pipe damaged		
3. Contaminants & pollutants visible		
4. Cover/grate functioning properly		
5. Structure: no cracks larger than 1/2"		
6. Ladder		
7. Mosquito breeding habitat		
2. Sediment		
1. Depth of sediment (inches)*		
2. Depth of oil (inches)**		
3. Sediment and oil have been removed		

*If measured depth of sediment is greater than 3 inches, the system shall be cleaned as per the manufacturer recommendations.
**Any presence of oil shall be removed immediately.

Inspector shall use one sheet for each catch basin/manhole.
(Provide sketch to show location of unsatisfactory items.)

ACTIONS TO BE TAKEN:

COMMENTS:

Pre-Treatment (First Defense) System
Inspection and Maintenance

Project: _____

Location: _____

Site Status: _____

Date: _____ **Time:** _____

Inspector Signature: _____ **Inspector Name (print):** _____

Inspection/Maintenance Items	Satisfactory or Unsatisfactory	Comments/Corrective Action
1. Inlet/Outlet Structures (Quarter-annually, After Major Storms)		
1. Clear of debris and functional?		
2. Trash rack clear of debris and functional?		
3. Sediment accumulation?		
4. Condition of concrete/masonry?		
5. Outfall channels function, not eroding?		
6. If confined space entry is required; OSHA regulations should be followed.		
7. Other? (describe)		
2. Basin Bottom (Quarter-annually, After Major Storms)		
1. Excessive sedimentation?		
2. Any standing water?		
3. Structural Condition (Monthly or as needed)		
1. Structural repairs to inlet and outlets as needed?		
2. Any differential settlement?		

3. Other? (describe)		
4. Sediment		
1. Depth of sediment (inches)*		
2. Depth of oil (inches)**		
3. Sediment and oil have been removed		

*If measured depth of sediment is greater than 3 inches, the system shall be cleaned as per the manufacturer recommendations.
**Any presence of oil shall be removed immediately.

If any of the above inspection items are UNSATISFACTORY, list corrective actions and the corresponding completion dates below:

ACTIONS TO BE TAKEN:

COMMENTS:

Underground Infiltration System
Inspection and Maintenance

Project: _____

Location: _____

Site Status: _____

Date: _____ **Time:** _____

Inspector Signature: _____ **Inspector Name (print):** _____

Inspection/Maintenance Items	Satisfactory or Unsatisfactory	Comments/Corrective Action
1. Inlet/Outlet Structures (Quarter-annually, After Major Storms)		
1. Clear of debris and functional?		
2. Trash rack clear of debris and functional?		
3. Sediment accumulation?		
4. Condition of concrete/masonry?		
5. Outfall channels function, not eroding?		
6. If confined space entry is required; OSHA regulations should be followed.		
7. Other? (describe)		
2. Basin Bottom (Quarter-annually, After Major Storms)		
1. Excessive sedimentation?		
2. Any standing water?		
3. Structural Condition (Monthly or as needed)		
1. Structural repairs to inlet and outlets as needed?		
2. Any differential settlement?		

3. Other? (describe)		
4. Sediment		
1. Depth of sediment (inches)*		
2. Depth of oil (inches)**		
3. Sediment and oil have been removed		

*If measured depth of sediment is greater than 3 inches, the system shall be cleaned as per the manufacturer recommendations.
**Any presence of oil shall be removed immediately.

If any of the above inspection items are UNSATISFACTORY, list corrective actions and the corresponding completion dates below:

ACTIONS TO BE TAKEN:

COMMENTS:

Appendix-E

ILLINOIS PROPERTIES 26 LLC

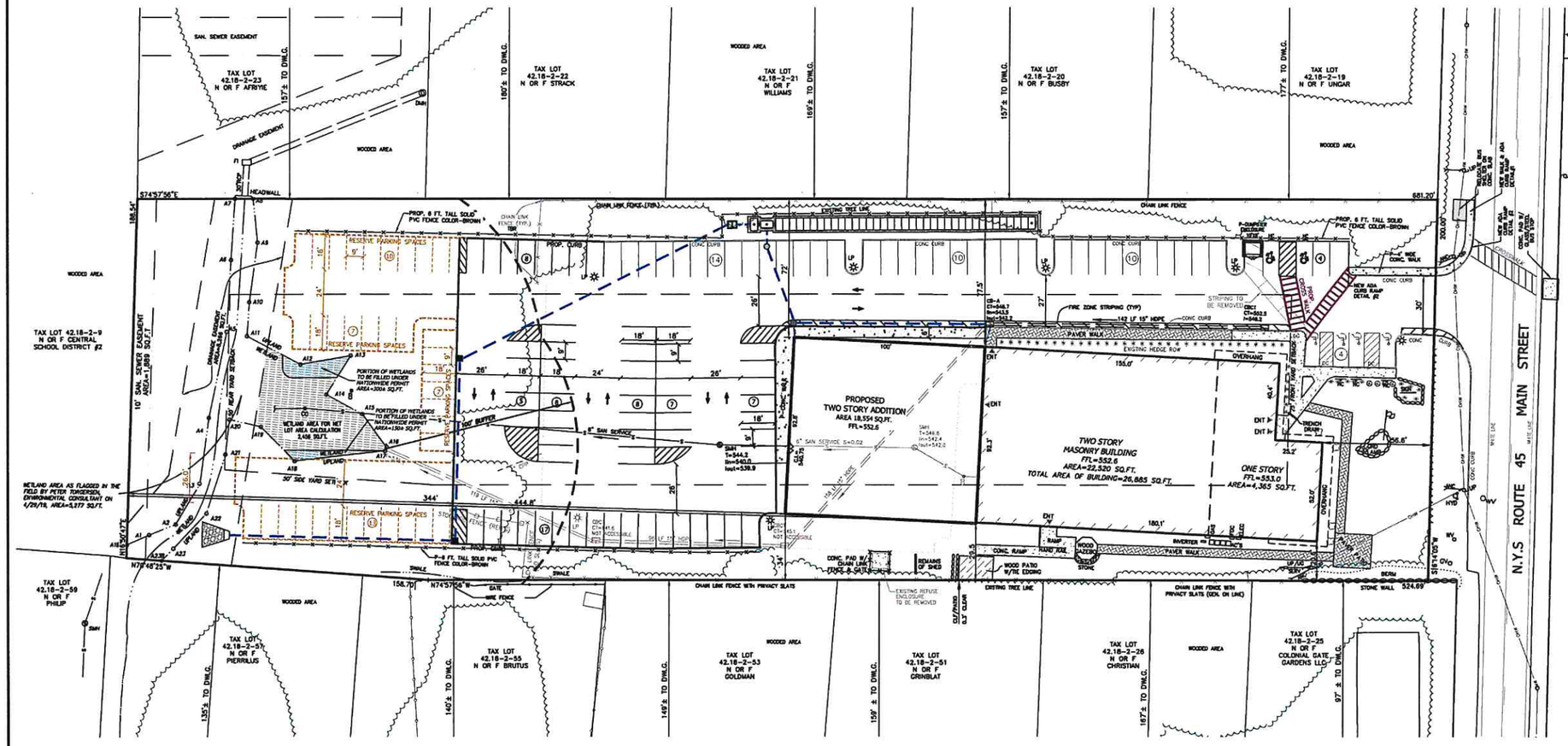
VILLAGE OF HEMPSTEAD
ROCKLAND COUNTY
NEW YORK

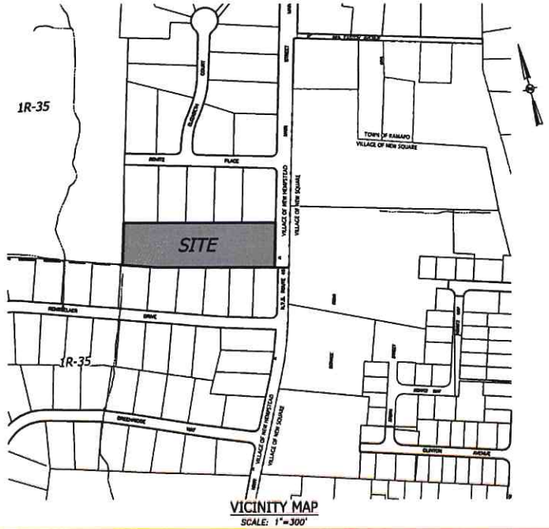
APPENDIX-E

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





VICINITY MAP
SCALE: 1"=300'

NOTES:

1. THE TAX MAP DESIGNATION FOR THE PARCEL THAT IS THE SUBJECT OF THIS SITE PLAN IS SECTION 42.18, BLOCK 2, AND LOT 24, AS SHOWN ON THE VILLAGE OF NEW HEMPSTEAD TAX MAP.
2. AREA OF TRACT: 135,511 SQ.FT.
3. ZONE: NCD
4. PROPOSED USE: PROFESSIONAL OFFICE
5. RECORD OWNER: ILLINOIS PROPERTIES 26 LLC
   51 FOREST ROAD, UNIT 316-24
   MONROE, NY 10950
6. APPLICANT: ILLINOIS PROPERTIES 26 LLC
   51 FOREST ROAD, UNIT 316-24
   MONROE, NY 10950
7. SCHOOL DISTRICT: EAST RAMAPO CENTRAL
8. FIRE DISTRICT: MOLESTON
9. WATER SUPPLY BY: VEOLIA WATER NEW YORK, INC.
10. DATUM: NAVD
11. BEFORE ANY WORK SHALL BE AUTHORIZED, A PRE-CONSTRUCTION MEETING (PCM) SHALL BE HELD ON-SITE WITH THE VILLAGE ENGINEER. AT SUCH TIME A FULL CONSTRUCTION SCHEDULE WILL BE REQUIRED AND STRICTLY ENFORCED. ANY CHANGES OR AMENDMENTS TO THE SCHEDULE MUST BE FILED WITH THE VILLAGE ENGINEER AS DIRECTED DURING THE PCM.
12. ALL UTILITIES UNDERGROUND, ELECTRIC SERVICE SHALL BE IN CONDUIT OF NOT LESS THAN TWO-INCH DIAMETER.
13. THERE ARE NO COVENANTS, DEED RESTRICTIONS, EASEMENTS OR OTHER RESERVATIONS OF LAND RELATIVE TO THIS SITE, EXCEPT AS SHOWN ON THIS PLAN, SUBJECT TO THE FINDINGS OF A COMPLETE AND UP-TO-DATE TITLE SEARCH.
14. NO SIGN(S) OTHER THAN THOSE SHOWN ON THESE DRAWINGS ARE PERMITTED WITHOUT PRIOR APPROVAL OF THE PLANNING BOARD. TENANTS ARE TO BE ADVISED OF THIS.
15. ALL CONSTRUCTION SHALL ADHERE TO ALL APPLICABLE NEW YORK STATE BUILDING CODES, AND CURRENT VILLAGE OF NEW HEMPSTEAD SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
16. ALL DRAWINGS AND PLANS, REQUIRED BY SUBSECTION B(1) OF THIS SECTION SHALL BE SIGNED AND SEALED/STAMPED BY A NEW-YORK-STATE-LICENSED PROFESSIONAL ENGINEER, REGISTERED ARCHITECT OR LAND SURVEYOR, THE PROFESSION OF WHICH LICENSED SIGNATORY SHALL BE DETERMINED BY THE VILLAGE ENGINEER. ADDITIONALLY, PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, AN AS-BUILT LANDSCAPING DRAWING SHALL BE SUBMITTED WHICH IS CERTIFIED BY A LANDSCAPE ARCHITECT LICENSED TO PRACTICE IN THE STATE OF NEW YORK. SAID CERTIFIED LANDSCAPING DRAWING SHALL INDICATE DEGREE OF COMPLETION OF SAID LANDSCAPING IMPROVEMENTS IN ACCORDANCE WITH THE APPROVED SITE PLAN. SAID AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE BUILDING INSPECTOR, VILLAGE PLANNER AND VILLAGE ENGINEER FOR APPROVAL.
17. NO LAND DISTURBANCE ACTIVITIES WILL BE PERMITTED UNTIL ALL EROSION CONTROL MEASURES REQUIRED AS PART OF THE EROSION CONTROL PLAN ARE INSTALLED TO THE SATISFACTION OF THE VILLAGE ENGINEER.
18. ALL TRAFFIC SIGNS SHALL CONFORM TO NEW YORK STATE DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
19. IF ANY EXISTING TREES THAT ARE DESIGNATED TO REMAIN ON THESE PLANS ARE DESTROYED DURING CONSTRUCTION, OR OTHERWISE, THEY SHALL BE REPLACED IN KIND WITH A MINIMUM OF 1.5 TIMES THE CALIPER OF THE TREE REMOVED. MINIMUM CALIPER OF EACH INDIVIDUAL REPLACEMENT TREE SHALL BE FOUR INCHES.
20. INSTALLATION OF ALL UTILITIES AND SITE WORK SHALL BE IN CONFORMANCE WITH OSHA REGULATIONS.
21. RETAINING WALLS OVER FOUR FEET IN HEIGHT SHALL BE DESIGNED AND INSPECTED BY A NEW-YORK-STATE-LICENSED PROFESSIONAL ENGINEER DURING INSTALLATION AND THE ADEQUACY OF THE RETAINING WALL SHALL BE CERTIFIED IN WRITING PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. WALLS HIGHER THAN FOUR FEET WILL ALSO REQUIRE A BARRIER FENCE ALONG THE TOP OF THE ENTIRE WALL.
22. IT IS THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR(S) TO PROTECT A PROPERTY SITE, AND ITS PERIMETER, UNDER/DURING CONSTRUCTION IN ACCORDANCE WITH THE RELEVANT OSHA REGULATIONS, AS WELL AS THE CONTROLLING NEW YORK STATE AND LOCAL LAWS/REGULATIONS/CODES, AS DETERMINED BY THE VILLAGE'S ENGINEER, BUILDING INSPECTOR AND/OR THE GOVERNING VILLAGE BOARDS, IN ORDER TO MAINTAIN THE HEALTH AND SAFETY OF WORKERS AND THE GENERAL PUBLIC, AS WELL AS PREVENTING UNAUTHORIZED ACCESS, THE SAME NOT LIMITED TO REQUIRING A MINIMUM SIX-FOOT-HIGH TEMPORARY FENCE WITH A LOCKED GATE.
23. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TEMPORARY FENCING TO PROTECT ANY AREA WITH AN EXCAVATION EXCEEDING FOUR FEET IN DEPTH IF LEFT UNATTENDED OVERNIGHT.
24. IN THE EVENT OF UNPLANNED/UNSCHEDULED CONSTRUCTION INACTIVITY FOR A DURATION GREATER THAN 30 CONSECUTIVE CALENDAR DAYS WITHOUT WRITTEN APPROVAL FROM THE VILLAGE ENGINEER, CODE ENFORCEMENT OFFICER OR BUILDING INSPECTOR, THE BOND ESTABLISHED FOR THE PROJECT UPON SITE PLAN APPROVAL MAY BE FORFEITED TO THE VILLAGE FOR SITE RESTORATION ENHANCEMENT ACTIVITIES AND A STOP-WORK ORDER WILL BE ISSUED FOR THE PROJECT UNTIL SUCH TIME THAT THE REAUTHORIZES WORK UNDER THE PREVIOUS APPROVAL AND A NEW BOND IS PROVIDED.
25. THE ZONING BOARD OF APPEALS OF THE VILLAGE OF NEW HEMPSTEAD, ON _____, AS CASE NUMBER _____, IN THE APPLICATION OF _____ GRANTED A VARIANCE(S) FOR _____.
26. THE APPLICATIONS TO THE PLANNING BOARD, ZONING BOARD OF APPEALS AND BOARD OF TRUSTEES, OF THE VILLAGE OF NEW HEMPSTEAD, AS MAY BE APPLICABLE, SHALL BE REVIEWED IN COMPLIANCE WITH ARTICLE 12-B OF NEW YORK STATE GENERAL MUNICIPAL LAW.
27. THE UNDERSIGNED, OWNER AND/OR APPLICANT, AS A CONDITION OF APPROVAL OF THIS SITE PLAN, HEREBY AGREES TO COMPLETE THE WITHIN SITE DEVELOPMENT PLAN AS DRAWN AND ALL IMPROVEMENTS SHOWN THEREON. THE APPLICANT/OWNER IS AWARE THAT NO CHANGES IN THIS PLAN MAY BE MADE UNLESS APPROVED BY THE PLANNING BOARD.

BULK REQUIREMENTS:

ZONE NCD	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	2 ACRES	126,998 SF/2.915 ACS. (NET)	126,998 SF/2.915 ACS. (NET)
MINIMUM LOT FRONTAGE	150 FT.	200 FT.	200 FT.
MINIMUM LOT WIDTH	150 FT.	200 FT.	200 FT.
MINIMUM FRONT YARD	75 FT.	56.6 FT.	56.6 FT.
MINIMUM SIDE YARD	50 FT.	20.6 FT.	29.5 FT. *
MINIMUM TOTAL SIDE YARD	100 FT.	98.1 FT.	92.6 FT. *
MINIMUM REAR YARD	50 FT.	444.8 FT.	344 FT.
MAXIMUM FLOOR AREA RATIO	0.30	0.21	0.36
MAXIMUM IMPERVIOUS SURFACE RATIO	0.75	0.52	0.66
MAXIMUM BUILDING STORIES	2 STORIES	2 STORIES	2 STORIES
MAXIMUM BUILDING HEIGHT	35 FT.	35 FT.	35 FT.

ZONE CHANGE GRANTED BY THE VILLAGE BOARD ON OCTOBER 31, 2023
* DENOTES VARIANCE REQUIRED
VARIANCE REQUIRED BUILDING LARGER THAN 20,000 SQ.FT.
PLANING BOARD APPROVAL REQUIRED FOR WORK WITHIN 100 FT. WETLANDS BUFFER

LOT AREA CALCULATION:

GROSS LOT AREA	=135,511 SQ.FT.
– 25% AREA OF SANITARY SEWER EASEMENT	= 472 SQ.FT.
– 75% AREA OF DRAINAGE EASEMENT	= 6,199 SQ.FT.
– 75% WETLAND AREA	= 1,842 SQ.FT.
NET LOT AREA	=126,998 SQ.FT.

LOT COVERAGE CALCULATION:

EXISTING		PROPOSED	
BUILDING	15,597 SQ.FT.	BUILDING	15,597 SQ.FT.
GAZEBO	214 SQ.FT.	ADDITION	9,277 SQ.FT.
CONCRETE WALK	2,185 SQ.FT.	GAZEBO	112 SQ.FT.
PAVER WALK	2,035 SQ.FT.	CONCRETE WALK	2,682 SQ.FT.
MACADAM AREA	45,462 SQ.FT.	PAVER WALK	2,035 SQ.FT.
TOTAL	65,493 SQ.FT.	MACADAM AREA	53,908 SQ.FT.
		TOTAL	83,611 SQ.FT.

PARKING:

1 SPACE/250 SQ.FT.

EXISTING:
26,885 SQ.FT./ 250 SQ.FT. = 107.5 OR 108 SPACES REQUIRED
113 SPACES PROVIDED

PROPOSED:
26,885 SQ.FT.(EXISTING) + 18,554 SQ.FT.(ADDITION) = 45,439 SQ.FT.
45,439 SQ.FT./ 250 SQ.FT. = 181.8 OR 182 SPACES REQUIRED
139 SPACES PROVIDED
VARIANCE FOR 43 SPACES REQUESTED

102 SPACES TO BE CONSTRUCTED
37 SPACES TO BE HELD IN RESERVE

SITE ADDRESS:

775 ROUTE 45 (NORTH MAIN STREET)
SPRING VALLEY, NY 10977

DRAWING LIST

DRAWING No.	TITLE	ORIGIN DATE	REVISION DATE
DRAWING 1	– SITE PLAN	10-31-2022	04-12-2024
DRAWING 2	– EXISTING CONDITION PLAN	10-31-2022	04-12-2024
DRAWING 3	– AERIAL NEIGHBORHOOD PLAN	10-31-2022	04-12-2024
DRAWING 4	– GRADING PLAN	11-15-2023	04-12-2024
DRAWING 5	– EROSION & SEDIMENT CONTROL PLAN	11-15-2023	04-12-2024
DRAWING 6	– DRAINAGE DETAILS	04-12-2024	04-12-2024
DRAWING 7	– LIGHTING PLAN	11-15-2023	04-12-2024
DRAWING 8	– FIRE TRUCK RADIUS PLAN	11-15-2023	04-12-2024
DRAWING 9	– TREE REMOVAL PLAN	11-15-2023	04-12-2024
DRAWING L-701	– PLANTING PLAN	06-24-2024	

LEGEND

- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- EXISTING WATER MAIN
- EXISTING FIRE HYDRANT
- EXISTING GAS LINE
- CB EXISTING CATCH BASIN
- DMH EXISTING DRAINAGE MANHOLE
- EXISTING STORM DRAIN LINE
- SMH EXISTING SEWER MANHOLE
- EXISTING SEWER LINE
- EXISTING SPOT ELEVATION
- EXISTING SIGN
- LP EXISTING LIGHT POLE
- UP EXISTING UTILITY POLE
- EXISTING WATER VALVE
- EXISTING GAS VALVE
- EXISTING CHAIN LINK FENCE
- EXISTING STONEWALL

THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON, ALTERED ANYTHING ON THESE DRAWINGS AND/OR ANY ACCOMPANYING SPECIFICATIONS, UNLESS IT IS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER WHERE SUCH ALTERATIONS ARE MADE. THE PROFESSIONAL ENGINEER MUST SIGN, SEAL, DATE AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS. (NYS EDUCATION LAW SECTION 7209-2)

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209 SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."
"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES."
"CERTIFICATION INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE DELAWARE – HUDSON LAND SURVEYOR'S ASSOCIATION. SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR ENTITIES FOR WHOM THE SURVEY WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS OR SUBSEQUENT OWNERS."

STATE OF NEW YORK RYAN A. NASHER LICENSED PROFESSIONAL ENGINEER
RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

STATE OF NEW YORK JOHN R. ATZL LICENSED LAND SURVEYOR
JOHN R. ATZL
N.Y.S. L.S. LIC. NO. 50228

REVISION	DATE	DESCRIPTION
6	4-12-24	FOR PB SUBMISSION
5	11-15-23	PER TOWN DPW & NYSDOT COMMENTS
4	4-18-23	NOTE ADDITION TWO STORIES
3	3-30-23	WETLAND BUFFER & RESERVE PARKING
2	2-15-23	ADD TREE LINES, DIST. TO ADJ. DWLGS.
1	2-6-23	REVISE ADDITION & PARKING

ATZL, NASHER & ZIGLER P.C.
ENGINEERS-SURVEYORS-PLANNERS
232 North Main Street
New City, New York 10956
Tel: (845) 634-4894
Fax: (845) 634-5643
E-mail: info@anzny.com
Web: www.ANZNY.com

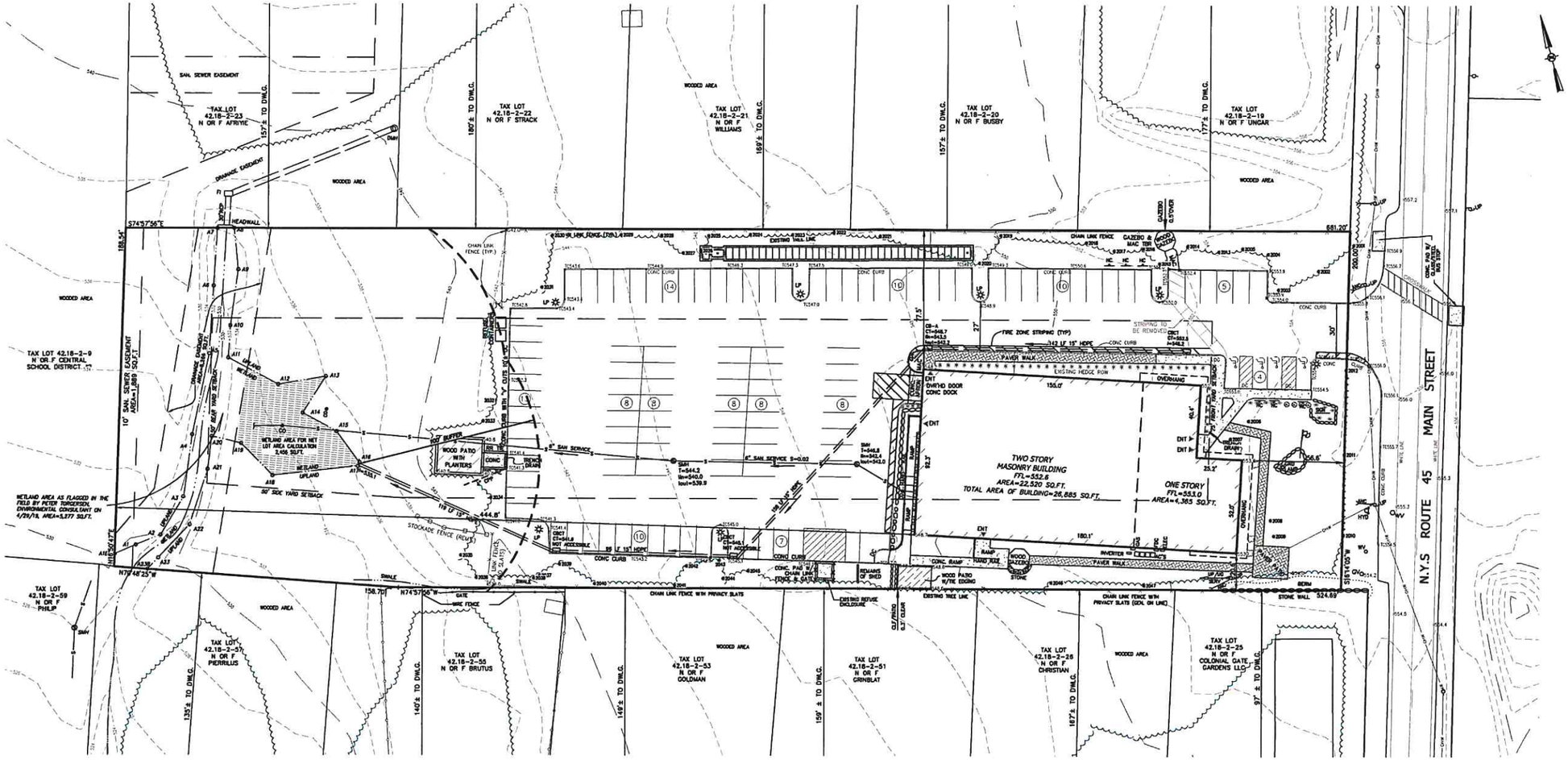
PROJECT:
ILLINOIS PROPERTIES 26 LLC

VILLAGE OF NEW HEMPSTEAD
ROCKLAND COUNTY, NEW YORK

TITLE:
SITE PLAN

DRAWN BY: LF	CHECKED BY: JRA
DATE: OCTOBER 31, 2022	SCALE: 1 IN. = 30 FT.
PROJECT NO: 5030	DRAWING NO: 1

P:\DRAWINGS\5030\5030 SITE PLAN & TEST HOLE 04-12-24.DWG



TREE LIST

NO.	SIZE	TYPE	CONDITION
2001	15"	LINDEN	GOOD
2002	15"	PINE	GOOD
2003	14"	LINDEN	GOOD
2004	10"	PINE	GOOD
2005	9"	PINE	GOOD
2006	9"	BERRY	GOOD
2007	11"	BERRY	GOOD
2008	8"	BERRY	GOOD
2009	9"	BERRY	GOOD
2010	13"	LINDEN	GOOD
2011	17"	LINDEN	GOOD
2012	15"	LINDEN	GOOD
2013	11"	PINE	GOOD
2014	10"	PINE	GOOD
2015	15"	OAK	GOOD
2016	8"	PINE	GOOD
2017	14"	PINE	GOOD
2018	10"	PINE	POOR
2019	23"	OAK	GOOD
2020	13"	OAK	GOOD
2021	24"	PINE	POOR
2022	14"	ELM	POOR
2023	26"	PINE	GOOD
2024	18"	PINE	POOR
2025	14"	ELM	POOR
2026	8"	PINE	POOR
2027	10"	PINE	POOR
2028	14"	PINE	POOR
2029	18"	PINE	POOR
2030	28"	PINE	POOR
2031	10"	MAPLE	GOOD
2032	12"	TWN MAPLE	GOOD
2033	12"	QUAD POPLAR	POOR
2034	10"	MAPLE	POOR
2035	12"	LOCUST	POOR
2036	14"	MAPLE	POOR
2037	48"	MAPLE	GOOD
2038	8"	MAPLE	POOR
2039	14"	ELM	POOR
2040	10"	HICKEY	GOOD
2041	19"	MAPLE	GOOD
2042	13"	MAPLE	GOOD
2043	10"	MAPLE	GOOD
2044	35"	MAPLE	GOOD
2045	10"	PINE	GOOD
2046	14"	MAPLE	GOOD
2047	17"	MAPLE	GOOD

TREE LEGEND

- ○ DENOTES EXISTING TREE TO REMAIN
- ✕ DENOTES EXISTING TREE TO BE REMOVED
- (○) DENOTES EXISTING TREE TO BE REMOVED

BULK REQUIREMENTS:

ZONE NCD	REQUIRED	EXISTING
MINIMUM LOT AREA	2 ACRES	126,998 SF/2.915 ACRES
MINIMUM LOT FRONTAGE	150 FT.	200 FT.
MINIMUM LOT WIDTH	150 FT.	200 FT.
MINIMUM FRONT YARD	75 FT.	56.6 FT.
MINIMUM SIDE YARD	50 FT.	20.6 FT.
MINIMUM TOTAL SIDE YARD	100 FT.	98.1 FT.
MINIMUM REAR YARD	50 FT.	444.8 FT.
MAXIMUM FLOOR AREA RATIO	0.30	0.21
MAXIMUM IMPERVIOUS SURFACE RATIO	0.75	0.52
MAXIMUM BUILDING STORIES	2 STORIES	2 STORIES
MAXIMUM BUILDING HEIGHT	35 FT.	35 FT.

SPECIAL PERMIT REQUIRED FROM THE VILLAGE BOARD
VARIANCE REQUIRED BUILDING LARGER THAN 20,000 SQ.FT.
PLANING BOARD APPROVAL REQUIRED FOR WORK WITHIN 100 FT. WETLANDS BUFFER

LOT AREA CALCULATION:

GROSS LOT AREA	=135,511 SQ.FT.
– 25% AREA OF SANITARY SEWER EASEMENT	= 472 SQ.FT.
– 75% AREA OF DRAINAGE EASEMENT	= 6,199 SQ.FT.
– 75% WETLAND AREA	= 1,842 SQ.FT.
NET LOT AREA	=126,998 SQ.FT.

LOT COVERAGE CALCULATION:

EXISTING	
BUILDING	15,597 SQ.FT.
GAZEBO	214 SQ.FT.
CONCRETE WALK	2,185 SQ.FT.
PAVER WALK	2,035 SQ.FT.
MACADAM AREA	45,462 SQ.FT.
TOTAL	65,493 SQ.FT.

PARKING:

1 SPACE/250 SQ.FT.

EXISTING:
26,885 SQ.FT./ 250 SQ.FT. = 107.5 OR 108 SPACES REQUIRED
113 SPACES PROVIDED

LEGEND

- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- EXISTING WATER MAIN
- EXISTING FIRE HYDRANT
- EXISTING GAS LINE
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"I/WE CERTIFY TO THOSE INDICATED HERE ON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYOR'S ADOPTED BY THE DELAWARE – HUDSON LAND SURVEYOR'S ASSOCIATION. SAID CERTIFICATIONS SHALL RUN ONLY TO THE PERSONS FOR WHOM THE SURVEY IS PREPARED, AND ON THE MONUMENTS, BOUNDARIES AND IMPROVEMENTS SHOWN THEREON. SAID CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS OR SUBSEQUENT OWNERS."

RYAN A. NASHER P.E.
N.Y.S. P.E. LIC. NO. 89066

JOHN R. ATZL
N.Y.S. L.S. LIC. NO. 50228

REVISION	DATE	DESCRIPTION
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New City, New York 10956
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Fax: (845) 634-5543
E-mail: info@anzny.com
Web: www.ANZNY.com

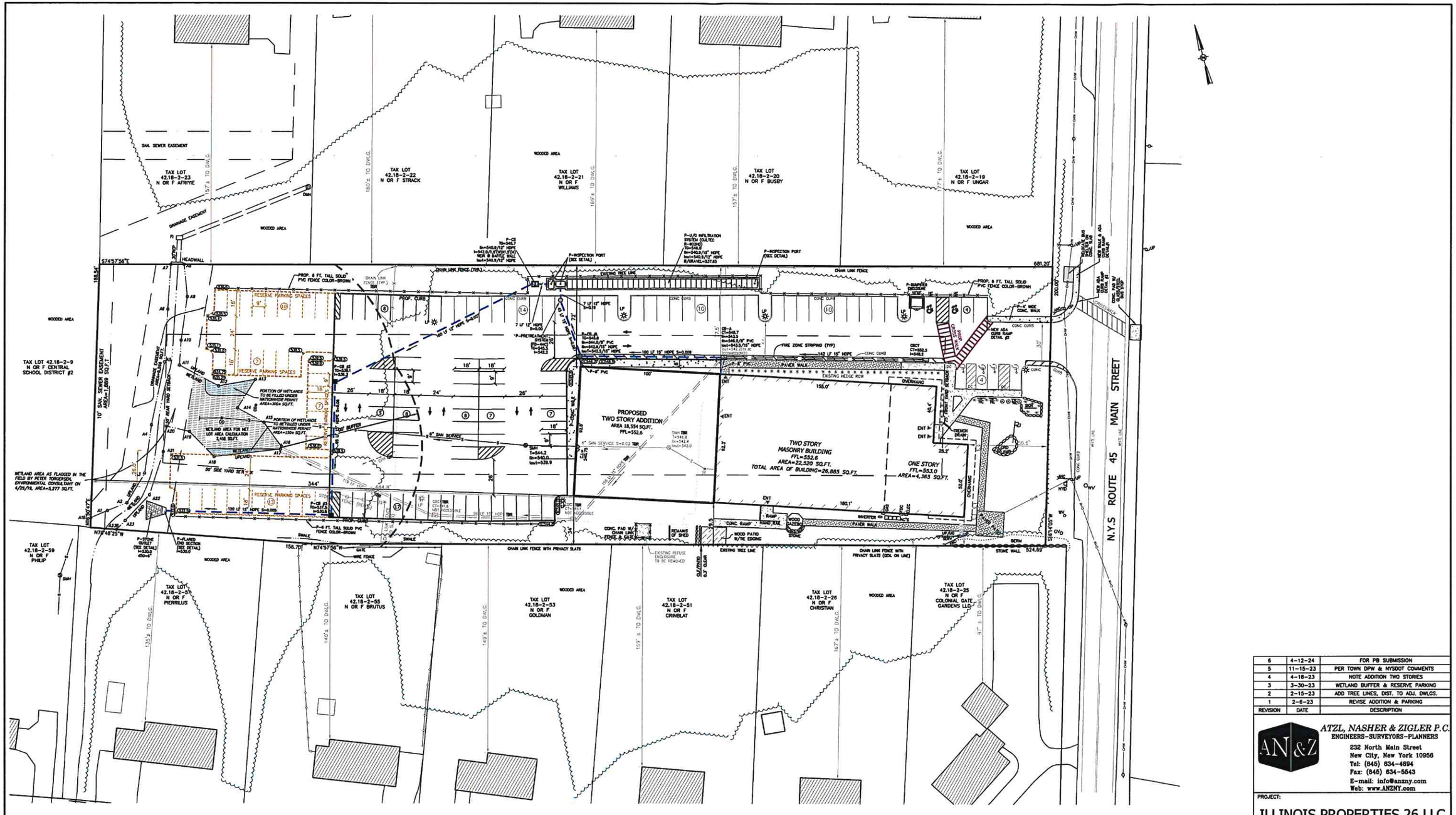
PROJECT:
ILLINOIS PROPERTIES 26 LLC

VILLAGE OF NEW HEMPSTEAD
ROCKLAND COUNTY, NEW YORK

TITLE:
EXISTING CONDITION

DRAWN BY: LF	CHECKED BY: JRA
DATE: OCTOBER 31, 2022	SCALE: 1 IN. = 30 FT.
PROJECT NO: 5030	DRAWING NO: 2

P:\DRAWINGS\5030\5030 SITE PLAN & TEST HOLE 04-12-24.DWG



REVISION	DATE	DESCRIPTION
6	4-12-24	FOR PB SUBMISSION
5	11-15-23	PER TOWN DPW & NYSDOT COMMENTS
4	4-18-23	NOTE ADDITION TWO STORIES
3	3-30-23	WETLAND BUFFER & RESERVE PARKING
2	2-15-23	ADD TREE LINES, DIST. TO ADJ. DWLGS.
1	2-6-23	REVISE ADDITION & PARKING

ATZL, NASHER & ZIGLER P.C.
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New City, New York 10956
Tel: (845) 634-4694
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E-mail: info@anzny.com
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PROJECT:

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF NEW HEMPSTEAD
ROCKLAND COUNTY, NEW YORK

TITLE:

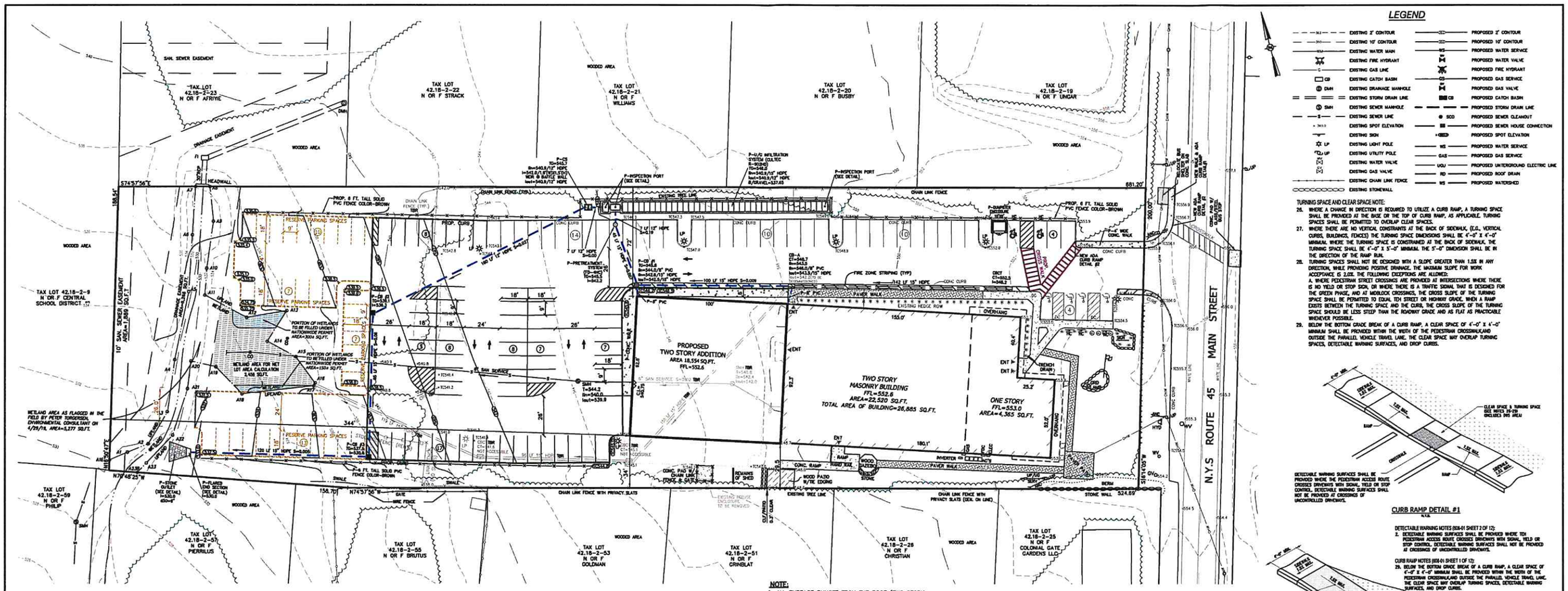
AERIAL NEIGHBORHOOD PLAN

DRAWN BY: LF	CHECKED BY: JRA
DATE: OCTOBER 31, 2022	SCALE: 1 IN. = 30 FT.
PROJECT NO: 5030	DRAWING NO: 3

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

JOHN R. ATZL
N.Y.S. L.S. LIC. NO. 50228

P:\DRAWINGS\5030\5030 SITE PLAN & TEST HOLE 04-12-24.DWG



LEGEND

- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- EXISTING WATER MAIN
- EXISTING FIRE HYDRANT
- EXISTING GAS LINE
- EXISTING CATCH BASIN
- EXISTING DRAINAGE MANHOLE
- EXISTING STORM DRAIN LINE
- EXISTING SEWER MANHOLE
- EXISTING SEWER LINE
- EXISTING SPOT ELEVATION
- EXISTING SIGN
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- EXISTING WATER VALVE
- EXISTING GAS VALVE
- EXISTING CHAIN LINK FENCE
- EXISTING STONEWALL
- PROPOSED 2' CONTOUR
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- PROPOSED GAS SERVICE
- PROPOSED GAS VALVE
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- PROPOSED STORM DRAIN LINE
- PROPOSED SEWER CLEANOUT
- PROPOSED SEWER HOUSE CONNECTION
- PROPOSED SPOT ELEVATION
- PROPOSED WATER SERVICE
- PROPOSED GAS SERVICE
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED ROOF DRAIN
- PROPOSED WATERSHED

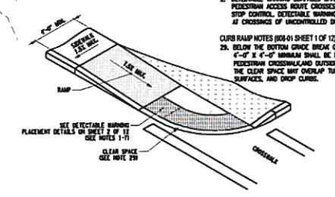
TURNING SPACE AND CLEAR SPACE NOTE:

26. WHERE A CHANGE IN DIRECTION IS REQUIRED TO UTILIZE A CURB RAMP, A TURNING SPACE SHALL BE PROVIDED AT THE BASE OF THE TOP OF CURB RAMP, AS APPLICABLE. TURNING SPACES SHALL BE PERMITTED TO OVERLAP CLEAR SPACES.
27. WHERE THERE ARE NO VERTICAL CONSTRAINTS AT THE BACK OF SIDEWALK, (E.G., VERTICAL CURBS, BUILDINGS, FENCES) THE TURNING SPACE DIMENSIONS SHALL BE 4'-0" X 4'-0" MINIMUM. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF SIDEWALK, THE TURNING SPACE SHALL BE 4'-0" X 5'-0" MINIMUM. THE 5'-0" DIMENSION SHALL BE IN THE DIRECTION OF THE RAMP RUN.
28. TURNING SPACES SHALL NOT BE DESIGNED WITH A SLOPE GREATER THAN 1.5% IN ANY DIRECTION, WHILE PROVIDING POSITIVE DRAINAGE. THE MAXIMUM SLOPE FOR WORK ACCEPTANCE IS 2.0%. THE FOLLOWING EXCEPTIONS ARE ALLOWED:
A. WHERE PEDESTRIAN STREET CROSSINGS ARE PROVIDED AT INTERSECTIONS WHERE THERE IS NO YIELD OR STOP SIGN, OR WHERE THERE IS A TRAFFIC SIGNAL THAT IS DESIGNED FOR THE GREEN PHASE, AND AT MIDBLOCK CROSSINGS, THE CROSS SLOPE OF THE TURNING SPACE SHALL BE PERMITTED TO EQUAL TEH STREET OR HIGHWAY GRADE, WHEN A RAMP EXISTS BETWEEN THE TURNING SPACE AND THE CURB, THE CROSS SLOPE OF THE TURNING SPACE SHOULD BE LESS STEEP THAN THE ROADWAY GRADE AND AS FLAT AS PRACTICABLE WHENEVER POSSIBLE.
29. BELOW THE BOTTOM GRADE BREAK OF A CURB RAMP, A CLEAR SPACE OF 4'-0" X 4'-0" MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN CROSSWALKS OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. THE CLEAR SPACE MAY OVERLAP TURNING SPACES, DETECTABLE WARNING SURFACES, AND DROP CURBS.

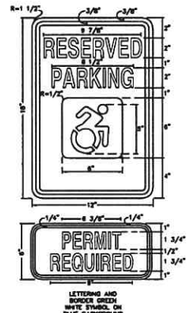
CURB RAMP DETAIL #1
N.T.S.

DETECTABLE WARNING NOTES (608-01 SHEET 2 OF 12):
2. DETECTABLE WARNING SURFACES SHALL BE PROVIDED WHERE TEH PEDESTRIAN ACCESS ROUTE CROSSES DRIVEWAYS WITH SIGNAL, YIELD OR STOP CONTROL. DETECTABLE WARNING SURFACES SHALL NOT BE PROVIDED AT CROSSINGS OF UNCONTROLLED DRIVEWAYS.

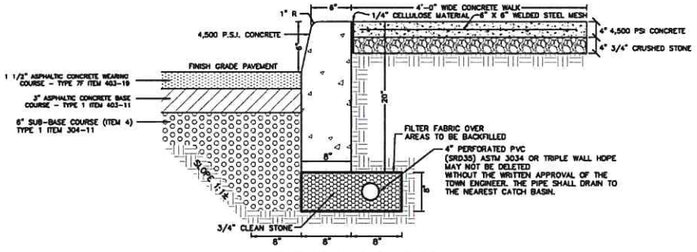
CURB RAMP NOTES (608-01 SHEET 1 OF 12):
29. BELOW THE BOTTOM GRADE BREAK OF A CURB RAMP, A CLEAR SPACE OF 4'-0" X 4'-0" MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN CROSSWALKS OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. THE CLEAR SPACE MAY OVERLAP TURNING SPACES, DETECTABLE WARNING SURFACES, AND DROP CURBS.



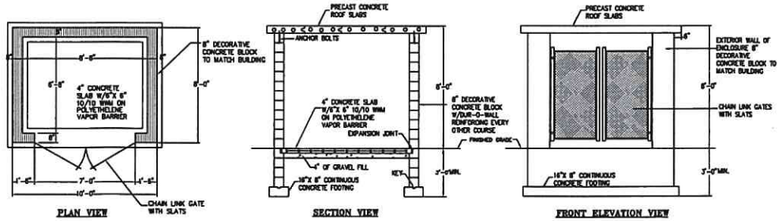
CURB RAMP DETAIL #2
N.T.S.



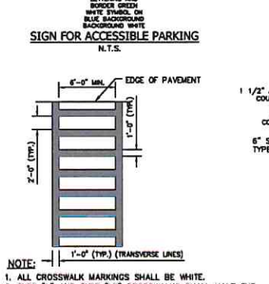
SIGN FOR ACCESSIBLE PARKING
N.T.S.



CONCRETE CURB & OFFSITE SIDEWALK DETAIL
N.T.S.

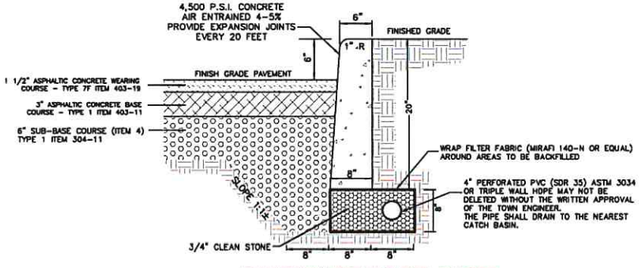


REFUSE DUMPSTER ENCLOSURE DETAIL
N.T.S.

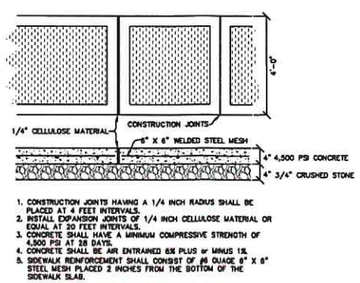


NOTE:
1. ALL CROSSWALK MARKINGS SHALL BE WHITE.
2. TYPE "L" AND TYPE "LS" CROSSWALKS SHALL HAVE THE LONGITUDINAL LINES PARALLEL TO THE LANE LINES.

TYPICAL CROSSWALK DETAIL
N.T.S.

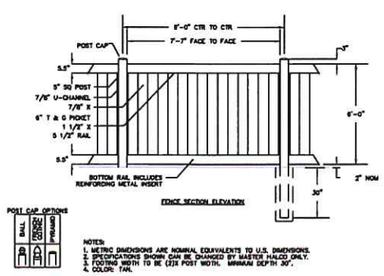


ASPHALTIC CONCRETE PAVEMENT & CONCRETE CURB DETAIL FOR PARKING AREAS
N.T.S.



1. CONSTRUCTION JOINTS HAVING A 1/4 INCH RADIUS SHALL BE PLACED AT 4 FEET INTERVALS.
2. INSTALL EXPANSION JOINTS OF 1/4 INCH CELLULOSE MATERIAL OR EQUAL AT 20 FEET INTERVALS.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
4. CONCRETE SHALL BE AIR ENTRAINED 6% PLUS or MINUS 1%.
5. SIDEWALK REINFORCEMENT SHALL CONSIST OF #6 QUAGE 6" X 6" STEEL MESH PLACED 2 INCHES FROM THE BOTTOM OF THE SIDEWALK SLAB.

4 FEET WIDE CONCRETE WALK DETAIL
N.T.S.



NOTES:
1. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
2. SPECIFICATIONS SHOWN CAN BE ENHANCED BY MASTER HALCO ONLY.
3. FOOTING WIDTH TO BE (2)X POST WIDTH. MINIMUM DEPTH 30".
4. COLOR: TAN.

6 FT. TALL PVC FENCE DETAIL
N.T.S.

REVISION	DATE	DESCRIPTION
6	4-12-24	FOR PB SUBMISSION
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3	3-30-23	WETLAND BUFFER & RESERVE PARKING
2	2-15-23	ADD TREE LINES, DIST. TO ADJ. DWLGS.
1	2-6-23	REVISE ADDITION & PARKING

THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON ALTERING ANYTHING ON THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS UNLESS IT IS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR. IF ANY ALTERATIONS ARE MADE BY THE PROFESSIONAL, THEY MUST SIGN, SEAL, DATE, AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWING AND/OR IN THE SPECIFICATIONS (NYS EDUCATION LAW SECTION 7209-2)

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."
"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY MAP MARKED WITH THE LAND SURVEYOR'S INKED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES."
"CERTIFICATION INDICATED HERE ON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYOR'S ADOPTED BY THE ASSOCIATION OF NEW YORK STATE LAND SURVEYORS. THIS CERTIFICATION SHALL RUN ONLY TO THOSE NAMED HEREUNDER AND/OR INSTITUTIONS FOR WHOM THE SURVEY WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS OR SUBSEQUENT OWNERS."

JOHN R. ATZL
N.Y.S. L.S. LIC. NO. 50228

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ENGINEERS-SURVEYORS-PLANNERS
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E-mail: info@anzny.com
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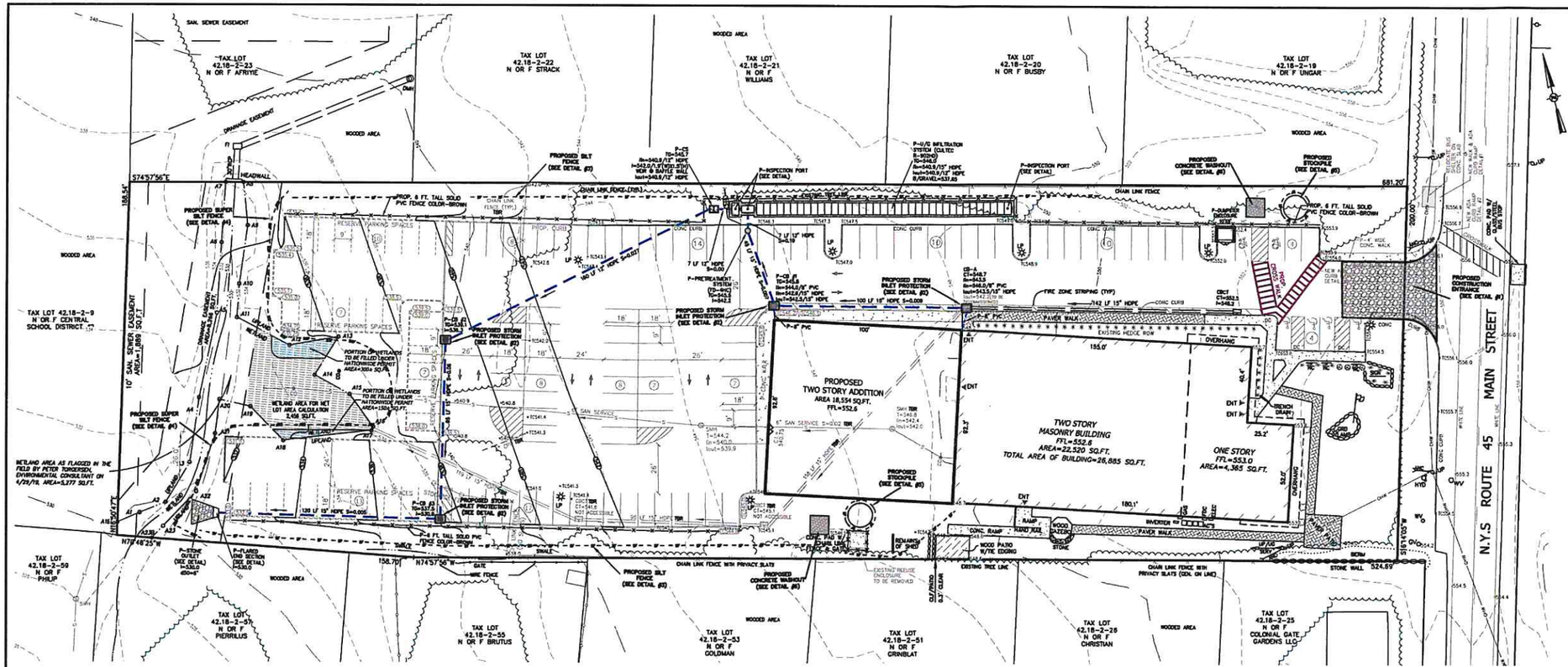
PROJECT:
ILLINOIS PROPERTIES 26 LLC

VILLAGE OF NEW HEMPSTEAD
ROCKLAND COUNTY, NEW YORK

TITLE:
GRADING PLAN

DRAWN BY: LF	CHECKED BY: JRA
DATE: OCTOBER 31, 2022	SCALE: 1 IN. = 30 FT.
PROJECT NO: 5030	DRAWING NO: 4

P:\DRAWINGS\5030\PLOT\5030 SITE PLAN & TEST HOLE 04-12-24.DWG



LEGEND

EXISTING 2' CONTOUR
EXISTING 10' CONTOUR
EXISTING WATER MAIN
EXISTING FIRE HYDRANT
EXISTING GAS LINE
EXISTING CATCH BASIN
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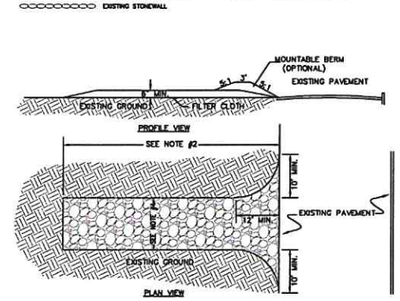


SPECIFICATIONS FOR CONSTRUCTION ENTRANCE

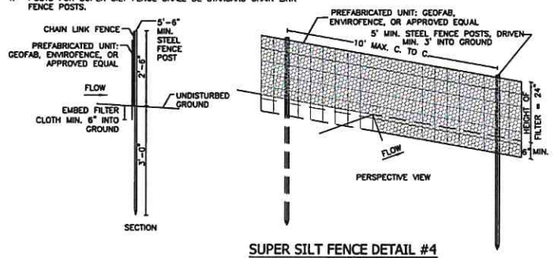
1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FT. (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FT. MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN 6 IN..
4. WIDTH – 12 FT. MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR. 24 FT. IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO THE PLACEMENT OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS TO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION ENTRANCE DETAIL #1
N.T.S.

CONSTRUCTION NOTES FOR PRE FABRICATED SILT FENCE

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

1. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
2. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
3. THE FABRIC SHALL BE PLACED AGAINST CHAIN LINK FENCE AS SUPPORT BACKING WITH POSTS DRIVEN 3 FEET IN THE GROUND.
4. POSTS FOR SUPER SILT FENCE SHALL BE STANDARD CHAIN LINK FENCE POSTS.



SUPER SILT FENCE DETAIL #4
N.T.S.

CONSTRUCTION NOTES FOR PRE FABRICATED SILT FENCE

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

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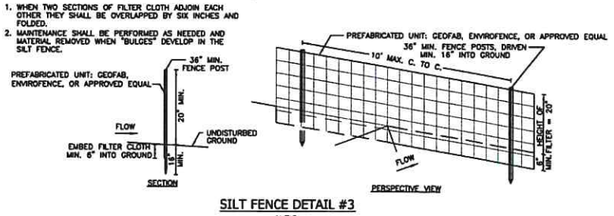
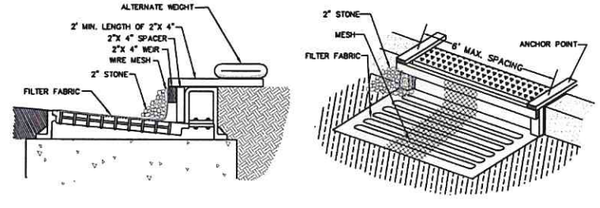


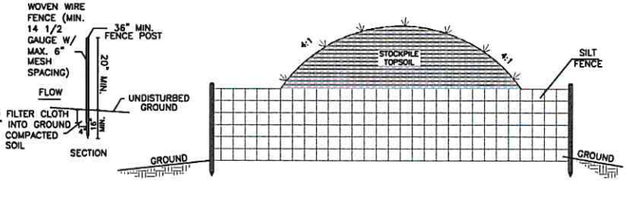
SILT FENCE DETAIL #3
N.T.S.

SPECIFICATIONS FOR CURB INLET PROTECTION

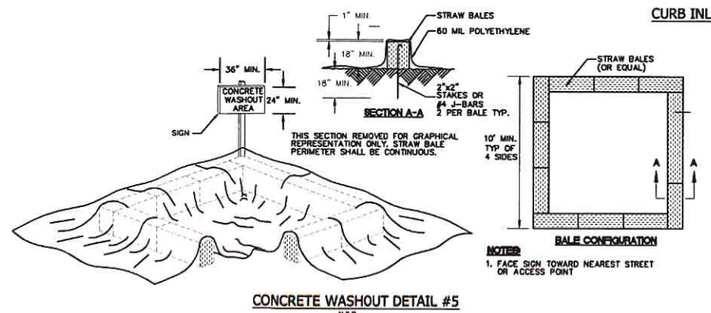
1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85.
2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2"X4" CONSTRUCTION GRADE LUMBER.
3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30" MINIMUM WIDTH WITH A LENGTH 4' LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2"X4" WEIR.
4. THE WEIR SHALL BE SECURLEY NAILED TO 2"X4" SPACERS 9" LONG SPACED NO MORE THAN 6' APART.
5. THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2"X4" ANCHORS 2' LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.



CURB INLET PROTECTION DETAIL #2
N.T.S.



STOCKPILE DETAIL #6
N.T.S.



CONCRETE WASHOUT DETAIL #5
N.T.S.

REVISION	DATE	DESCRIPTION
6	4-12-24	FOR PB SUBMISSION
5	11-15-23	PER TOWN DPW & NYSDOT COMMENTS
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PROJECT:
ILLINOIS PROPERTIES 26 LLC

VILLAGE OF NEW HEMPSTEAD
ROCKLAND COUNTY, NEW YORK

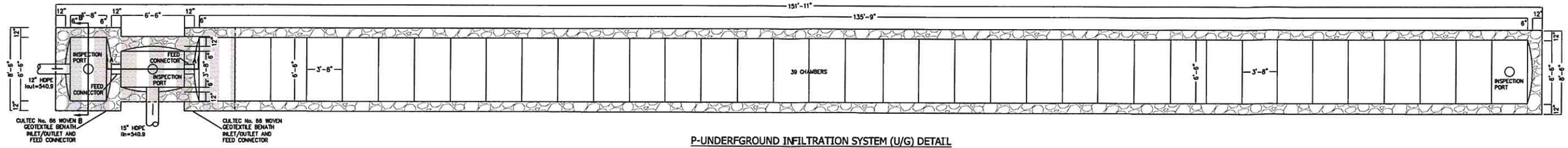
TITLE:
EROSION & SEDIMENT CONTROL PLAN

DRAWN BY: LF	CHECKED BY: JRA
DATE: OCTOBER 31, 2022	SCALE: 1 IN. = 30 FT.
PROJECT NO: 5030	DRAWING NO: 5

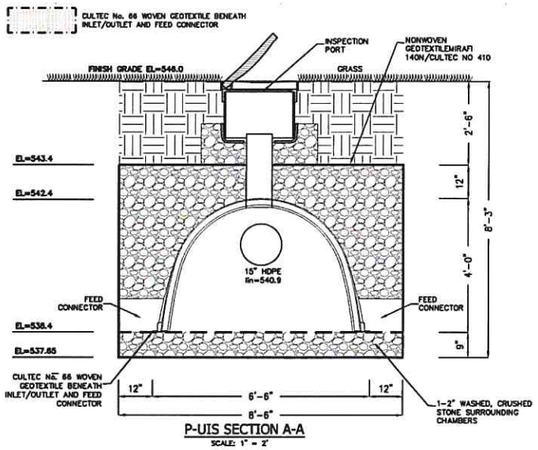
RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

JOHN R. ATZL
N.Y.S. L.S. LIC. NO. 50228

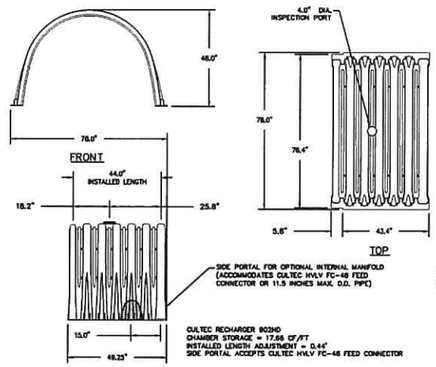
P:\DRAWINGS\5030\5030 SITE PLAN & TEST HOLE 04-12-24.DWG



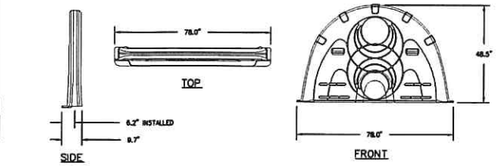
P-UNDERFGROUND INFILTRATION SYSTEM (U/G) DETAIL
SCALE: 1" = 5'



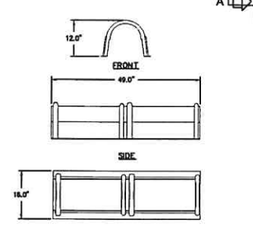
P-UIS SECTION A-A
SCALE: 1" = 2'



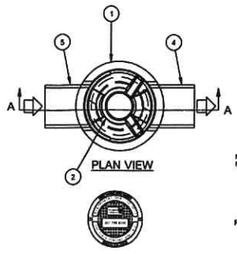
CULTEC RECHARGER 902HD HEAVY DUTY
N.T.S.

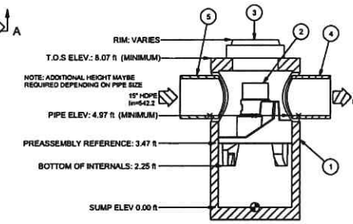


CULTEC RECHARGER 902HD HEAVY DUTY END CAP
N.T.S.



CULTEC HVLV FC-48 FEED CONNECTOR
N.T.S.

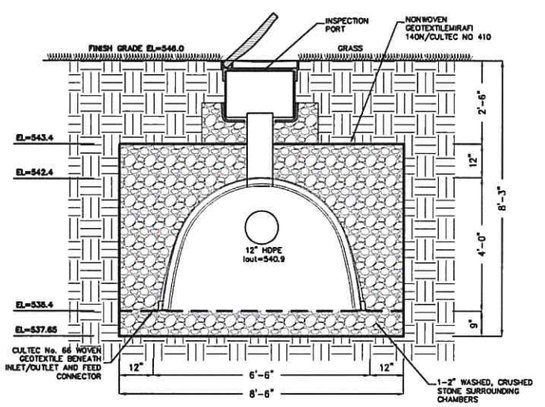




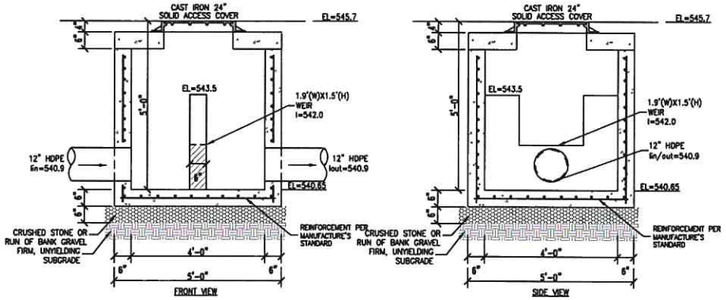
SECTION A-A

PARTS LIST			
ITEM	QTY	SIZE (in)	DESCRIPTION
1	1	48	I.D. PRECAST MANHOLE
2	1		INTERNAL COMPONENTS (PRE-INSTALLED)
3	1	30	FRAME AND COVER (ROUND)
4	1	24 (MAX)	OUTLET PIPE (BY OTHERS)
5	1	24 (MAX)	INLET PIPE (BY OTHERS)

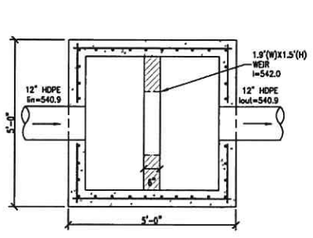
PRE-TREATMENT SYSTEM (FIRST DEFENSE FD-4HC OR EQUAL) DETAIL
N.T.S.



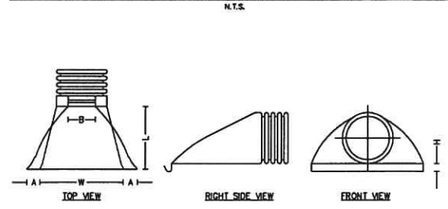
P-UIS SECTION B-B
SCALE: 1" = 2'



P-CS DETAIL
SCALE: 1/2"= 1'

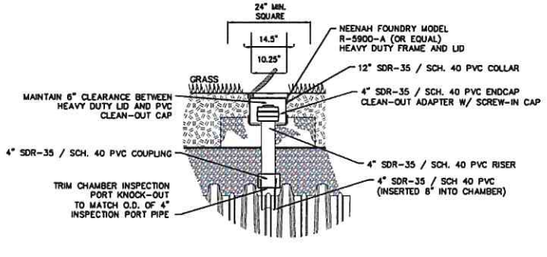


TOP VIEW

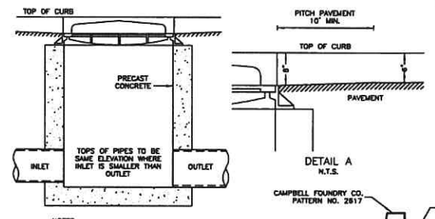


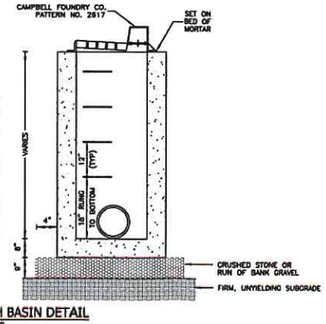
PIPE SIZE	A	B (MAX)	H	L	W
15 IN.	6.5 IN.	10 IN.	6.5 IN.	25 IN.	29 IN.

15" FLARED END SECTION DETAIL
N.T.S.

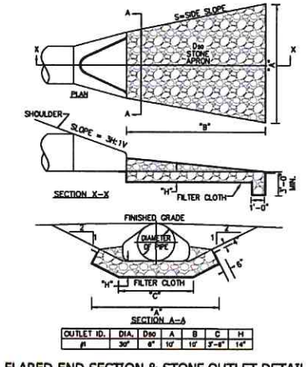


INSPECTION PORT DETAIL
N.T.S.





PRECAST CATCH BASIN DETAIL
N.T.S.



OUTLET ID.	DIA.	Dso	A	B	C	H
#1	30"	6"	10'	10'	3'-8"	14"

FLARED END SECTION & STONE OUTLET DETAIL
N.T.S.

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

JOHN R. ATZL
N.Y.S. L.S. LIC. NO. 50228

REVISION	DATE	DESCRIPTION
6	4-12-24	FOR PB SUBMISSION
5	11-15-23	PER TOWN DPW & NYSDOT COMMENTS
4	4-16-23	NOTE ADDITION TWO STORIES
3	3-30-23	WETLAND BUFFER & RESERVE PARKING
2	2-15-23	ADD TREE LINES, DIST. TO ADJ. DWLGS.
1	2-6-23	REVISE ADDITION & PARKING

ATZL, NASHER & ZIGLER P.C.
ENGINEERS-SURVEYORS-PLANNERS
232 North Main Street
New City, New York 10956
Tel: (845) 634-4694
Fax: (845) 634-5543
E-mail: info@anzny.com
Web: www.ANZNY.com

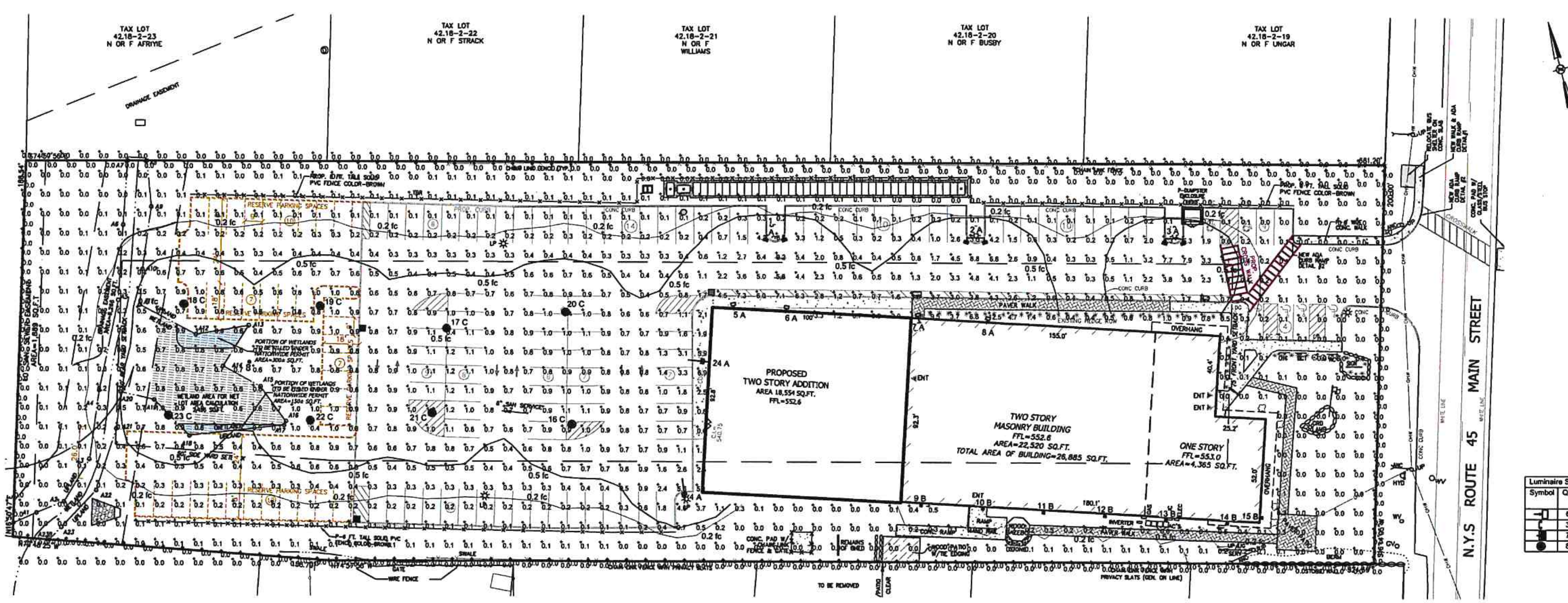
PROJECT:
ILLINOIS PROPERTIES 26 LLC

VILLAGE OF NEW HEMPSTEAD
ROCKLAND COUNTY, NEW YORK

TITLE:
DRAINAGE DETAILS

DRAWN BY: LF	CHECKED BY: JRA
DATE: APRIL 04, 2024	SCALE: AS SHOWN
PROJECT NO: 5030	DRAWING NO: 6

P:\DRAWINGS\5030\5030 SITE PLAN & TEST HOLE 04-12-24.DWG



Expanded Luminaire Location Summary

LumNo	Orient	Tilt	Tag	X	Y	MTG HT
1	290	50	A	457.655	366.296	16
1	250	50	A	454.655	366.296	16
2	290	50	A	561.085	365.797	16
2	250	50	A	558.085	365.797	16
3	290	50	A	663.766	366.047	16
3	250	50	A	660.766	366.047	16
4	98	30	A	410.792	230.746	16
5	98	0	A	435.273	328.7	15
6	80	0	A	461.972	327.29	14.5
7	100	0	A	530.711	323.921	12
8	75	0	A	565.783	322.314	12
9	265	0	B	532.926	228.242	11
10	265	0	B	564.605	226.664	11
11	265	0	B	596.283	224.944	11
12	265	0	B	627.962	223.327	11
13	265	0	B	659.64	221.753	11
14	265	0	B	691.319	220.096	11
15	355	0	B	708.639	222.849	11
16	35	0	C	351.964	268.45	16
17	35	0	C	286.913	317.653	16
18	35	0	C	150.832	329.323	16
19	35	0	C	221.393	328.743	16
20	35	0	C	348.228	326.422	16
21	35	0	C	279.736	273.979	16
22	35	0	C	216.681	269.685	16
23	35	0	C	143.331	271.883	16
24	175	30	A	421.541	301.247	15
Total Quantity: 27						

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	PtSpcLr	PtSpcTb	Meter Type
Property Line	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.	10	N.A.	Horizontal
Site	Illuminance	Fc	0.29	12.5	0.0	N.A.	N.A.	10	10	Horizontal

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	6	X17XFU80 @40W_3K	Single	EXISTING FLOODLIGHT	A	1.000	5361	40.98	245.88
	3	X17XFU80 @40W_3K + BULL2	TWIN @ 40	EXISTING FLOODLIGHT	A	1.000	5361	40.98	245.88
	7	WPLED5N	Single	NEW WALLPACK	B	1.000	155	5.19	36.33
	8	ALED5T26Y	Single	NEW POST TOP	C	1.000	3395	26.3789	211.031

WPLED5Y

RAB

Project: Type:

Prepared By: Date:

Driver Info

Type	Constant Current
120V	0.18A
208V	0.18A
240V	0.18A
277V	N/A
Input Watts	5.3W

LED Info

Watts	5W
Color Temp	3000K (Warm)
Color Accuracy	88 CRI
L70 Lifespan	100,000 Hours
Lumens	128 lm
Efficacy	24.2 lm/W

LED 5W Wall packs, patent-pending thermal management system, 100,000 hour L70 lifespan. 5-year, no-compromise warranty.

Color: Bronze Weight: 2.0 lbs

Technical Specifications

Compliance

UL Listed: Suitable for wet locations in downlight position only. Suitable for mounting within 4ft (1.2m) of the ground.

IP Rating: Ingress protection rating of IP66 for dust and water

IESNA LM-79 & LM-80 Testing: RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

Dark Sky Conformance: Allows for conformance to the IDA's fully shielding requirement, emitting no light above 90 degrees.

Performance

Lifespan: 100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Wattage Equivalency: Equivalent to 13W CFL or 60W Incandescent

Other

Patents: The WPLED design is protected by patents pending in the U.S., Canada, China, Taiwan and Mexico.

Warranty: RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance: RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

LED Characteristics

LEDs: 5W, high-output, long life LED

Color Temperature: 3000K

Color Consistency: 3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability: LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

Color Uniformity: RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Construction

Ambient Temperature: Suitable for use in up to 40°C (104°F)

Cold Weather Starting: The minimum starting temperature is -40°C (-40°F)

Housing: Precision die-cast aluminum housing and mounting plate. 1 1/2" backbox with three 1/2" conduit entry points.

Gaskets: High-temperature silicone gaskets

Finish: Formulated for high durability and long lasting color

Green Technology: Mercury and UV free. RoHS-compliant components.

Need help? Tech help line: (888) 722-1000 Email: sales@rablighting.com Website: www.rablighting.com

ALED5T52Y

RAB

Project: Type:

Prepared By: Date:

Driver Info

Type	Constant Current
120V	0.45A
208V	0.26A
240V	0.23A
277V	0.19A
Input Watts	53.5W

LED Info

Watts	52W
Color Temp	3000K (Warm)
Color Accuracy	70 CRI
L70 Lifespan	100,000 Hours
Lumens	6,498 lm
Efficacy	121.5 lm/W

High-output LED pole top area light with IES type V circular distribution. Wide and uniform 360 degree pattern ideal for large outdoor areas such as parking lots, corporate parks, and retail settings.

Color: Bronze Weight: 21.1 lbs

Technical Specifications

Compliance

UL Listed: Suitable for wet locations

IESNA LM-79 & LM-80 Testing: RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Listed: This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements. DLC Product Code: PHOARKSJ

LED Characteristics

LEDs: 4x13W high-output, long-life LEDs

Color Consistency: 3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability: LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

Color Uniformity: RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Performance

Lifespan: 100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Wattage Equivalency: Equivalent to 150W Metal Halide

Construction

Cold Weather Starting: The minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature: Suitable for use in up to 40°C (104°F)

Effective Projected Area: EPA = 1.2

Housing: Precision die-cast aluminum, Type V distribution

Support Arms: Extruded aluminum

Lens: Clear tempered glass lens

Reflector: Specular vacuum-metallized polycarbonate, Type V distribution

Gaskets: High-temperature silicone

Finish: Formulated for high durability and long-lasting color

Green Technology: Mercury and UV free. RoHS-compliant components.

Optical

BUG Rating: B3 U0 G2

Other

Patents: The designs of the ALED5T52 are protected by patents pending in US, Canada, China, Taiwan and Mexico

Need help? Tech help line: (888) 722-1000 Email: sales@rablighting.com Website: www.rablighting.com

PR4-11-15WT

RAB

Project: Type:

Prepared By: Date:

Color: Bronze Weight: 93.3 lbs

Technical Specifications

Compliance

CSA Listed: Suitable for wet locations

Performance

Description: Steel pole 4" round 11 gauge 15 foot welded tenon square base

Construction

Shaft: 46,000 p.s.i. minimum yield.

Hand Holes: Reinforced with grounding lug and removable cover

Base Plates: Slotted base plates 36,000 p.s.i.

Color: Bronze powder coating

Tenon: Welded 2 3/8" tenon included

Height: 15 ft

Gauge: 11

Wall Thickness: 1/8"

Shaft Size: 4"

Anchor Bolt Templates: WARNING Template must be printed on 11" x 17" sheet for actual size. CHECK SCALE BEFORE USING. Templates shipped with anchor bolts and available online.

Max EPA's/Max Weights:
70MPH 11.7 ft/650 lb.
80MPH 8.5 ft/595 lb.
90MPH 6.2 ft/530 lb.
100MPH 4.6 ft/430 lb.
110MPH 3.4 ft/325 lb.
120MPH 2.5 ft/295lb.
130MPH 1.8 ft/220 lb.
140MPH 1.3 ft/200 lb.
150MPH 0.8 ft/165 lb

Accessories:
Base/Cap: BASE-R4
Anchor Bolts: BOLT4/11

Other

Terms of Sale: Pole Terms of Sale is available online

Buy American Act Compliance: RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Need help? Tech help line: (888) 722-1000 Email: sales@rablighting.com Website: www.rablighting.com

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

JOHN R. ATZL
N.Y.S. P.L.S. LIC. NO. 50228

REVISION	DATE	DESCRIPTION
6	4-12-24	FOR PB SUBMISSION
5	11-15-23	PER TOWN DPW & NYSDOT COMMENTS
4	4-18-23	NOTE ADDITION TWO STORIES
3	3-30-23	WETLAND BUFFER & RESERVE PARKING
2	2-15-23	ADD TREE LINES, DIST. TO ADJ. DWLGS.
1	2-6-23	REVISE ADDITION & PARKING

AN&Z
ATZL, NASHER & ZIGLER P.C.
ENGINEERS-SURVEYORS-PLANNERS
232 North Main Street
New City, New York 10956
Tel: (845) 634-4694
Fax: (845) 634-5543
E-mail: info@anzny.com
Web: www.ANZNY.com

PROJECT:

ILLINOIS PROPERTIES 26 LLC

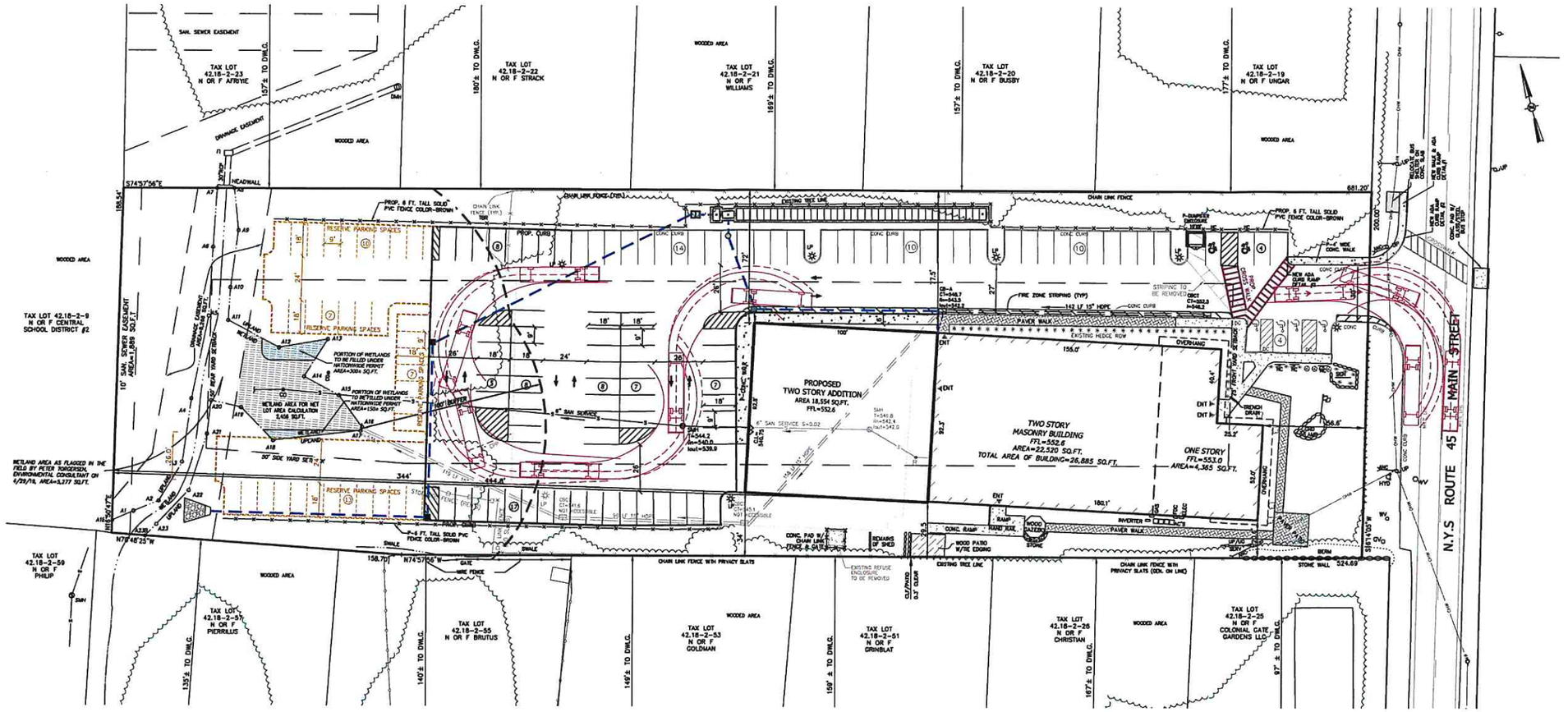
VILLAGE OF NEW HEMPSTEAD
ROCKLAND COUNTY, NEW YORK

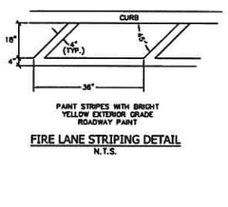
TITLE:

LIGHTING PLAN

DRAWN BY: LF	CHECKED BY: JRA
DATE: OCTOBER 31, 2022	SCALE: 1 IN. = 30 FT.
PROJECT NO: 5030	DRAWING NO: 7

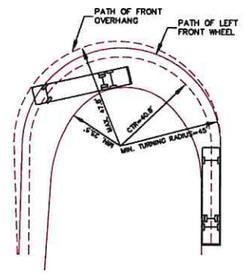
P:\DRAWINGS\5030\5030 SITE PLAN & TEST HOLE 04-12-24.DWG





FIRE LANE STRIPING DETAIL
N.T.S.

SIGN FOR FIRE LANES
N.T.S.



FIRE TRUCK TURNING RADIUS DETAIL
SCALE: 1"=30'

LEGEND

- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- EXISTING WATER MAIN
- EXISTING FIRE HYDRANT
- EXISTING GAS LINE
- CB EXISTING CATCH BASIN
- DMH EXISTING DRAINAGE MANHOLE
- EXISTING STORM DRAIN LINE
- SMH EXISTING SEWER MANHOLE
- EXISTING SEWER LINE
- EXISTING SPOT ELEVATION
- EXISTING SIGN
- LP EXISTING LIGHT POLE
- UP EXISTING UTILITY POLE
- EXISTING WATER VALVE
- EXISTING GAS VALVE
- EXISTING CHAIN LINK FENCE
- EXISTING STONEWALL

P:\DRAWINGS\5030\5030 SITE PLAN & TEST HOLE 04-12-24.DWG

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

JOHN R. ATZL
N.Y.S. L.S. LIC. NO. 50228

REVISION	DATE	DESCRIPTION
6	4-12-24	FOR PB SUBMISSION
5	11-15-23	PER TOWN DPW & NYSDOT COMMENTS
4	4-18-23	NOTE ADDITION TWO STORIES
3	3-30-23	WETLAND BUFFER & RESERVE PARKING
2	2-15-23	ADD TREE LINES, DIST. TO ADJ. DWLGS.
1	2-6-23	REVISE ADDITION & PARKING

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ENGINEERS-SURVEYORS-PLANNERS
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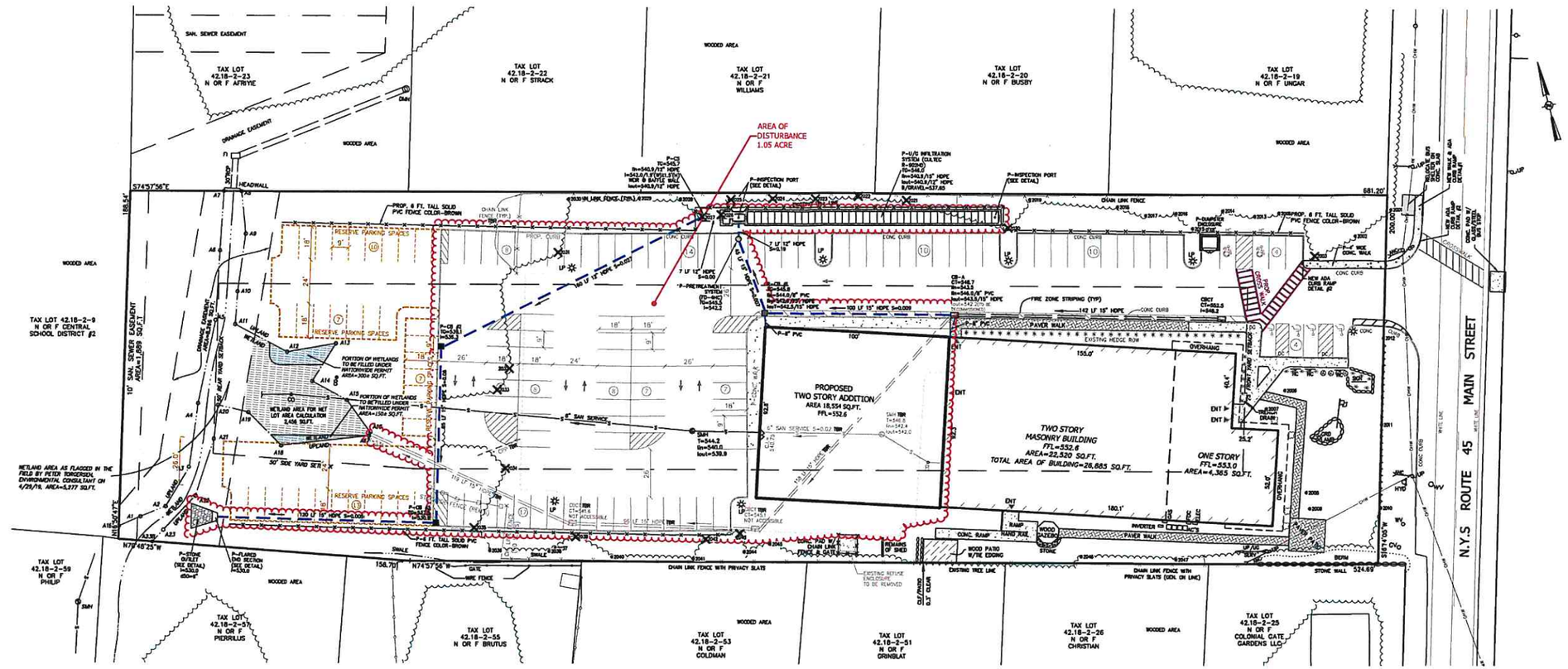
New City, New York 10956
Tel: (845) 634-4694
Fax: (845) 634-5543
E-mail: info@anzny.com
Web: www.ANZNY.com

PROJECT:
ILLINOIS PROPERTIES 26 LLC

VILLAGE OF NEW HEMPSTEAD
ROCKLAND COUNTY, NEW YORK

TITLE:
FIRE TRUCK RADIUS PLAN

DRAWN BY: LF	CHECKED BY: JRA
DATE: OCTOBER 31, 2022	SCALE: 1 IN. = 30 FT.
PROJECT NO: 5030	DRAWING NO: 8



TREE LIST

NO.	SIZE	TYPE	CONDITION
2001	15"	LINDEN	GOOD
2002	15"	PINE	GOOD
~~2003~~	~~14"~~	~~LINDEN~~	~~GOOD~~
2004	10"	PINE	GOOD
2005	9"	PINE	GOOD
2006	9"	BERRY	GOOD
2007	11"	BERRY	GOOD
2008	8"	BERRY	GOOD
2009	9"	BERRY	GOOD
2010	13"	LINDEN	GOOD
2011	17"	LINDEN	GOOD
2012	15"	LINDEN	GOOD
2013	11"	PINE	GOOD
2014	10"	PINE	GOOD
2015	15"	OAK	GOOD
2016	8"	PINE	GOOD
2017	14"	PINE	GOOD
2018	10"	PINE	POOR
2019	23"	OAK	GOOD
~~2020~~	~~15"~~	~~OAK~~	~~GOOD~~
~~2021~~	~~24"~~	~~PINE~~	~~POOR~~
~~2022~~	~~14"~~	~~ELM~~	~~POOR~~
~~2023~~	~~36"~~	~~PINE~~	~~GOOD~~
~~2024~~	~~16"~~	~~PINE~~	~~POOR~~
~~2025~~	~~14"~~	~~ELM~~	~~POOR~~
~~2026~~	~~9"~~	~~PINE~~	~~POOR~~
~~2027~~	~~10"~~	~~PINE~~	~~POOR~~
2028	14"	PINE	POOR
2029	18"	PINE	POOR
2030	28"	PINE	POOR
~~2031~~	~~10"~~	~~MAPLE~~	~~GOOD~~
~~2032~~	~~12"~~	~~TWIN-MAPLE~~	~~GOOD~~
~~2033~~	~~12"~~	~~QUAD-POPLAR~~	~~POOR~~
~~2034~~	~~10"~~	~~MAPLE~~	~~POOR~~
~~2035~~	~~12"~~	~~LOCUST~~	~~POOR~~
2036	14"	MAPLE	POOR
2037	48"	MAPLE	GOOD
2038	8"	MAPLE	POOR
~~2039~~	~~14"~~	~~ELM~~	~~POOR~~
2040	10"	HICKEY	GOOD
2041	19"	MAPLE	GOOD
~~2042~~	~~13"~~	~~MAPLE~~	~~GOOD~~
~~2043~~	~~10"~~	~~MAPLE~~	~~GOOD~~
2044	35"	MAPLE	GOOD
2045	10"	PINE	GOOD
2046	14"	MAPLE	GOOD
2047	17"	MAPLE	GOOD

TREE LEGEND

- ○ DENOTES EXISTING TREE TO REMAIN
- ✕ DENOTES EXISTING TREE TO BE REMOVED
- (○) DENOTES EXISTING TREE TO BE REMOVED

REVISION	DATE	DESCRIPTION
8	4-12-24	FOR PB SUBMISSION
5	11-15-23	PER TOWN DPW & NYSDOT COMMENTS
4	4-18-23	NOTE ADDITION TWO STORIES
3	3-30-23	WETLAND BUFFER & RESERVE PARKING
2	2-15-23	ADD TREE LINES, DIST. TO ADJ. DWLGS.
1	2-8-23	REVISE ADDITION & PARKING

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ENGINEERS-SURVEYORS-PLANNERS
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New City, New York 10956
Tel: (845) 634-4694
Fax: (845) 634-5543
E-mail: info@anzny.com
Web: www.ANZNY.com

PROJECT:

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF NEW HEMPSTEAD
ROCKLAND COUNTY, NEW YORK

TITLE:

TREE REMOVAL PLAN

DRAWN BY: LF	CHECKED BY: JRA
DATE: OCTOBER 31, 2022	SCALE: 1 IN. = 30 FT.
PROJECT NO: 5030	DRAWING NO: 9

STATE OF NEW YORK — RYAN A. NASHER — LICENSED PROFESSIONAL ENGINEER

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

STATE OF NEW YORK — JOHN R. ATZL — LICENSED LAND SURVEYOR

JOHN R. ATZL
N.Y.S. L.S. LIC. NO. 50228

P:\DRAWINGS\5030\5030 SITE PLAN & TEST HOLE D4-22-24.DWG

Section 2: Drainage

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND COUNTY
NEW YORK

SECTION 2:

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

BY

ATZL, NASHER & ZIGLER
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April 12, 2024

Village of New Hempstead
108 Old Schoolhouse Rd
New City, NY 10956

Att.: Glenn McCreedy, P.E.
Village Engineer

Ref.: Illinois Properties 26 LLC (Job #5030)
Village of New Hempstead, Rockland County, New York

Sub: Hydraulic and hydrological study

1.1 INTRODUCTION:

The following hydraulic/hydrological study has been prepared for the above-mentioned project to provide zero net increase of the peak runoff and water quality mitigation for the proposed project in the Village of Hempstead, Rockland County, New York. The project disturbed area is 1.054 acres (45,933 sq.ft) which is greater than 1-acre; therefore, a general construction permit is required according to the NYSDEC 2015 version of the design manual.

1.2 SITE LOCATION:

The project is located at 775 North Main Street, in the Village of New Hempstead, Rockland County, New York.

2.0 HYDROLOGICAL SOIL GROUP:

The soil on site is the following, based on data from United States Department of Agriculture (USDA) soil survey.

Soil Name	Soil Map Symbol	Hydrological Soil Group
Watchaug fine sandy loam	Wc	C
Wethersfield gravelly silt loam, 3 to 8 percent slopes	WeB	C

* Source: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx
** HSG "C" is used in drainage calculation.

3.1 EXISTING CONDITION:

The existing drainage area consists of one watershed (WS#1). The drainage area consists of woods/grass, parking lot, a two-story masonry building, and some impervious areas. The drainage area is delineated on the Existing Condition Drainage Map (E-1)

3.2 DEVELOPED CONDITION:

The proposed drainage area will remain the same as the existing watershed area (2.388 acres). The developed condition consists in the construction of a two-story addition on the west side of the existing two-story masonry building, a parking lot, and some landscaping areas. 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 from 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, and 100-year design storm events.

5.0 MITIGATION MEASURES:

The hydrology and hydraulics study for this project has been undertaken to examine the pre and post construction drainage conditions.

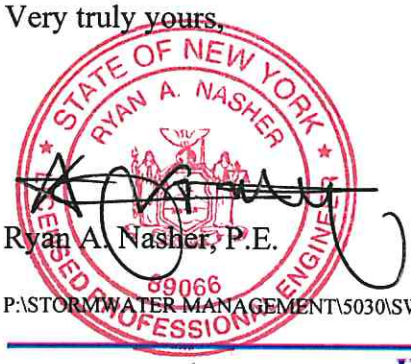
To attenuate the post-developed peak flow to pre-developed peak flow, and address water quality mitigation requirements, an Underground Infiltration System has been proposed. The location of the system is shown on the site plan drawings.

- Underground Infiltration System (Cultec R-902HD).

HydroCAD has been used to calculate peak flows for different storm events at the outlet "Point of Interest", for Existing and Developed Condition and to simulate stormwater being routed through the proposed stormwater management structures in order to determine the final peak runoff of the site. The peak flow in the proposed development site will be decreased by 0.2% to 37.7% at P.O.I.#1 after routing through the proposed SMPs.

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

Very truly yours,



Ryan A. Nasher, P.E.

P:\STORMWATER MANAGEMENT\5030\SWPPP Report\SWPPP Section 2 - Drainage\5030 Drainage Narrative.docx

Summary Table

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND COUNTY
NEW YORK

SUMMARY TABLE

BY

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SUMMARY FLOW

EXSITING AND DEVELOPED CONDITIONS

1, 10, & 100 YEA STORMS PEAK RUNOFF

STORM FREQUENCY (YEAR)	EXISTING CONDITION PEAK FLOW (CFS) (PER HYDROCAD)	DEVELOPED CONDITION PEAK FLOW (CFS) (PER HYDROCAD)	% CHANGE
1	4.43	2.76	-37.7
10	9.93	8.80	-11.4
100	19.41	19.38	-0.2

* Note: Peak flow attenuation and the required water quality treatment volume will be provided by the proposed underground infiltration system (Cultec R-902HD or Approved Equal).

Location Maps

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND COUNTY
NEW YORK

LOCATION MAPS

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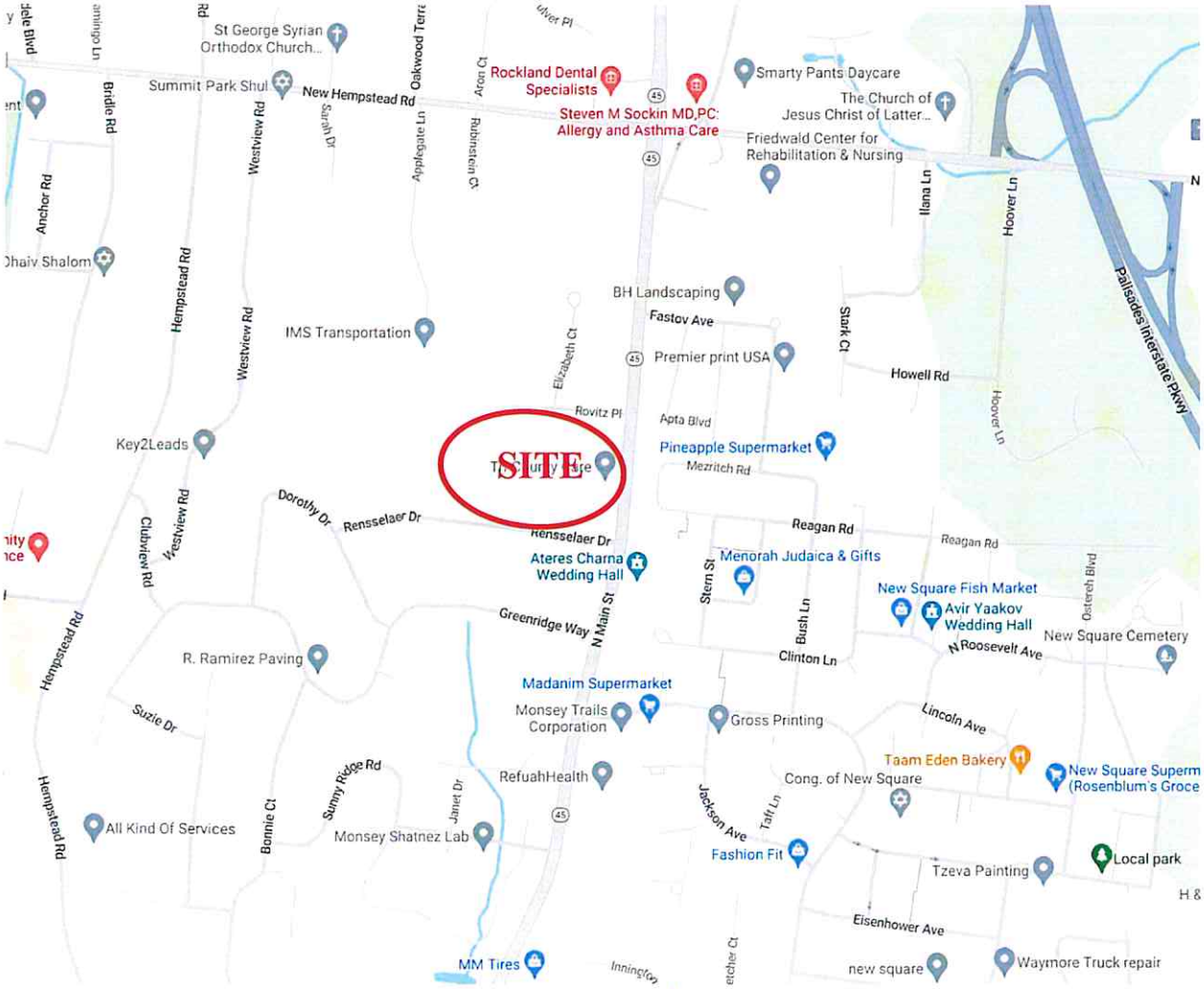
JOB: ILLINOIS PROPERTIES 26 LLC (5030)
CALCULATED BY: WS DATE: 04/12/24
CHECKED BY: RN DATE: 04/12/24

NORTH



Source: maps.google.com

STREET MAP

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NORTH

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

SOIL MAP

Drainage Calculations

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND COUNTY
NEW YORK

DRAINAGE CALCULATION

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EXISTING CONDITION:

The existing drainage area consists of one watershed (WS#1), with an area of about 2.388 acres. The drainage area consists of woods/grass, parking lot, a two-story masonry building, and some impervious areas. The drainage area is delineated on the Existing Condition Drainage Map (E-1).

WS#1:

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

A = 2.388 Acres

Composition	HSG C
$A_{Wood/grass}$=	0.47 acs
A_{Grass}=	0.552 acs
$A_{Impervious}$=	1.366 acs

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

WS#1 → P.O.I.#1

DEVELOPED CONDITION:

The developed condition includes two watersheds (WS#1A & WS#1B). The proposed development includes the construction of a two-story addition on the west side of the existing two-story masonry building, a parking lot, and some landscaping areas. The total drainage area (2.388 acs) will remain the same. The drainage area is delineated on Drainage Map Developed Condition (D-1).

WS#1A:

The soil within WS#1A belongs to Hydrological Soil Group "C".

A = 1.023 Acres

Composition	HSG
A_{Grass}=	0.19 acs
$A_{Impervious}$=	0.833 acs

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

WS#1A → UNDERGROUND INFILTRATION SYSTEM → P.O.I.#1

WS#1B:

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

A = 1.365 Acres

Composition	HSG
A_{Grass}=	0.435 acs
$A_{Impervious}$=	0.93 acs

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

WS#1B → P.O.I.#1

SMP Design

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND COUNTY
NEW YORK

STORMWATER MANAGEMENT PRACTICE DESIGN CALCULATIONS

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STORMWATER MANAGEMENT PRACTICE SIZING CALCULATIONS

The proposed underground infiltration system will provide water quality treatment and peak flow mitigation for the required 1-yr, 10-yr, and 100-yr storm events at the P.O.I.#1

WQv Requirements:

1. **Base Data:**
   - Drainage study area = 2.388 acres
   - Existing Impervious area in disturbance (I_{Ext})= 0.834 acres
   - Proposed impervious area in disturbance = 1.227 acres
   - New Impervious (I_{New})= 1.227 acres – 0.834 acres
   - New Impervious (I_{New})= 0.393 acres

     $Imp_{Treat} = I_{New} + 0.25 * I_{Ext}$

     $Imp_{Treat} = 0.393\ acres + (0.25 * 0.834\ acres)$

     $Imp_{Treat} = 0.602\ acres$
   - 90% Rainfall Depth = 1.5 inches
   - Hydrological Soil Group (HSG): C
   - HSG Specific Reduction Factor, S = 0.3

2. **Water Quality Volume required before Runoff Reduction:**

   The impervious cover,

   $$I = \frac{0.602\ acres}{2.388\ acres} \times 100\% = 25.2\%$$

   The runoff coefficient,

   $R_v = 0.05 + 0.009 \times I$

   $\rightarrow R_v = 0.05 + 0.009 \times 25.2$

   $\rightarrow R_v = 0.28$

Use the 90% rule 1.5" of rainfall in Rockland County,

$$WQ_v = 1.5" \times R_v \times A_{Disturbed}$$

$$\rightarrow WQ_v = 1.5inch\left(\frac{1ft}{12inch}\right) 0.28\ x\ 2.388\ acs$$

$$\rightarrow WQ_v = 0.083\ acs.ft. = 3{,}600.0\ cu.ft.$$

The required water quality volume, (WQv) = 3,600.0 cu.ft or 0.083 acs.ft.

$(WQv)_{Required}$ = 0.083 acs.ft. or 3,600.0 cu.ft

3. **Minimum Runoff Reduction Volume (RRv) Calculations:**

$$RRv = \frac{90\%\ Rainfall\ Amount}{12} * 0.95 * S * AI_{New}$$

$$S = 0.3$$

$$RRv = 1.5inch\left(\frac{1ft}{12inch}\right) * 0.95 * 0.3 * 0.602\ acres$$

$$RRv = 0.021\ acs.ft. = 934.0\ ft^3$$

$(RRv)_{Minimum}$ = 0.021 acs.ft. or 934.0 cu.ft

4. **Area Reduction Practice:**

- No area reduction practice is proposed.

5. **Area Reduction Practice:**

- *N/A*

6. **Recalculate WQv for Site Area Remaining After Area Reduction:**

The impervious cover,

$$I = \frac{0.602\ acres}{2.388\ acres} \times 100\% = 25.2\%$$

The runoff coefficient,

$$R_v = 0.05 + 0.009 \times I$$

$$\rightarrow R_v = 0.05 + 0.009 \times 25.2$$

$$\rightarrow R_v = 0.28$$

Use the 90% rule 1.5" of rainfall in Rockland County,

$WQ_v = 1.5" \times R_v \times A_{Disturbed}$

$\rightarrow WQ_v = 1.5inch\left(\frac{1ft}{12inch}\right) 0.28\ x\ 2.388\ acs$

$\rightarrow WQ_v = 0.083\ acs.ft. = 3{,}600.0\ cu.ft.$

The required water quality volume, (WQv) = 3,600.0 cu.ft or 0.083 acs.ft.

$(WQv)_{Required}$ = 0.083 acs.ft. or 3,600.0 cu.ft

7. **Runoff Reduction Volume (RRv) Calculation Per Area Reduction:**

- The Runoff Reduction Volume (RRv) Credit:

$(RRv)_{Area\ Reduction}$ = (#2 Original WQv - #6 Area Reduced WQv)

$\Rightarrow (RRv)_{Area\ Reduction}$ = (0.083 acs.ft. – 0.083 acs.ft.)

$\Rightarrow (RRv)_{Area\ Reduction}$ = 0.00 acs.ft.

$(RRv)_{Per\ Area\ Reduction}$ = 0.0 acs.ft. or 0.0 cu.ft

8. **Incorporate Impervious Are Disconnection:**

- No rooftop disconnection practices are proposed.

9. **Recalculate WQv with Rv Modified for Impervious Disconnection:**

The impervious cover,

$$I = \frac{0.602\ acres}{2.388\ acres} \times 100\% = 25.2\%$$

The runoff coefficient,

$R_v = 0.05 + 0.009 \times I$

$\rightarrow R_v = 0.05 + 0.009 \times 25.2$

$\rightarrow R_v = 0.28$

Use the 90% rule 1.5" of rainfall in Rockland County,

$WQ_v = 1.5" \times R_v \times A_{Disturbed}$

$\rightarrow WQ_v = 1.5inch\left(\frac{1ft}{12inch}\right) 0.28\ x\ 2.388\ acs$

$\rightarrow WQ_v = 0.083\ acs.ft. = 3{,}600.0\ cu.ft.$

The required water quality volume, (WQv) = 3,600.0 cu.ft or 0.083 acs.ft.

$(WQv)_{Required}$ = 0.083 acs.ft. or 3,600.0 cu.ft

10. <u>Runoff Reduction Volume (RRv) Per Impervious Area Reduction:</u>

- The Runoff Reduction Volume (RRv) Credit:

$(RRv)_{AI\ Reduction}$ = (#6 Area Reduced WQv - #9 Area Reduced WQv)

$\Rightarrow (RRv)_{AI\ Reduction}$ = (0.083 acs.ft – 0.083 acs.ft)

$\Rightarrow (RRv)_{AI\ Reduction}$ = 0.00 acs.ft

$(WQv)_{Per\ Impervious\ Reduction}$ = 0.0 acs.ft. or 0.0 cu.ft

11. <u>Source Control WQv Treatment Practice:</u>

- An underground infiltration system (Cultec R-902HD or approved equal) has been proposed to provide the required WQv.

$\rightarrow WQ_v$ *Provided by the U/G Infiltration System* = 0.084 acs. ft. @ Elv. 542.0 (as per Hydrocad)

- Required WQv = 3,600.0 cu.ft. or 0.083 acs.ft.
- WQv Provided = 3,640.0 cu.ft. or 0.084 acs.ft.

The total provided WQ volume by the U/G infiltration systems is 3,640.0 cu.ft. >= Required WQv = 3,600.0 cu.ft.

<u>(O.K.)</u> √

12. <u>The Total Provided Runoff Reduction Volume (RRv) Calculation:</u>

- The Grand Total RRv:

$(RRv)_{Grand\ Total}$ = (#7 $(RRv)_{Area\ Reduction}$ + #10 $(RRv)_{AI\ Reduction}$ + #11 $(RRv)_{SMP\ Provided}$)

$\Rightarrow (RRv)_{Grand\ Total}$ = (0.0 acs.ft. + 0.0 acs.ft. + 0.084 acs.ft.)

$\Rightarrow (RRv)_{Grand\ Total}$ = 0.084 acs.ft.

$(RRv)_{Grand\ Total}$ = 0.084 acs.ft. or 3,640.0 cu.ft

13. Check if Total Provided RRv is Adequate Compared to the Original WQv:

- The $(RRv)_{Grand\ Total}$ = 0.084 acs.ft > $(WQv)_{Original}$ = 0.083 acs.ft.

↓

(OK – No additional WQv by Standard Practice is required)

14. Check if Total Provided RRv is Adequate Compared to the Minimum RRv:

- The $(RRv)_{Grand\ Total}$ = 0.084 acs.ft >= $(RRv)_{Minimum}$ = 0.021 acs.ft.

↓

(Minimum RRv Requirement is Satisfied)

15. Total Drainage area treated with runoff reduction or source control practices:

- Treated area = #4 DA + #8 DA + #11 DA = 0.0 + 0.00 + 1.023 = 1.023 acres
- Impervious Area = #4 IA + #8 IA + #11 IA = 0.0 + 0.00 + 0.833 = 0.833 acres

16. Are all required areas treated by runoff reduction or source control practices:

Yes, no further action required.

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WATER QUANTITY CALCULATION

The proposed underground infiltration system provides water quantity required for 1-yr, 10-yr, 100-yr storm events at the point of interest. The routing calculation through the proposed systems shows that the zero net increase of peak run off from the site could be achieved as described in the following:

1-yr storm:

Q1 (developed) = 2.76 cfs < Q1 (existing) = 4.43 cfs

U/G Infiltration System 1-yr storage = 2,914 c.f. @ El. 541.08

10-yr storm:

Q10 (developed) = 8.80 cfs < Q10 (existing) = 9.93 cfs

U/G Infiltration System 10-yr storage = 4,069 c.f. @ El. 542.79

100-yr storm:

Q100 (developed) = 19.38 cfs < Q100 (existing) = 19.41 cfs

U/G Infiltration System 100-yr storage = 4,336 c.f. @ El. 543.33

(Please see HydroCad calculations for details)

HydroCAD Model

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND COUNTY
NEW YORK

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

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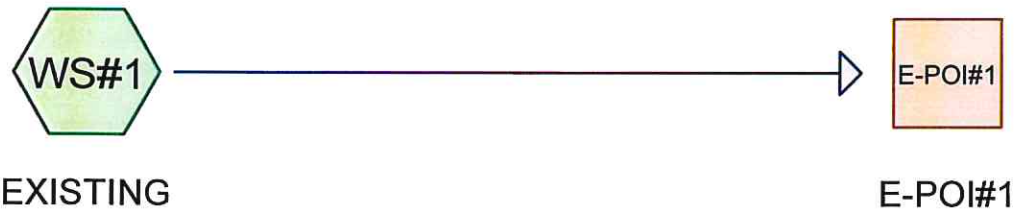
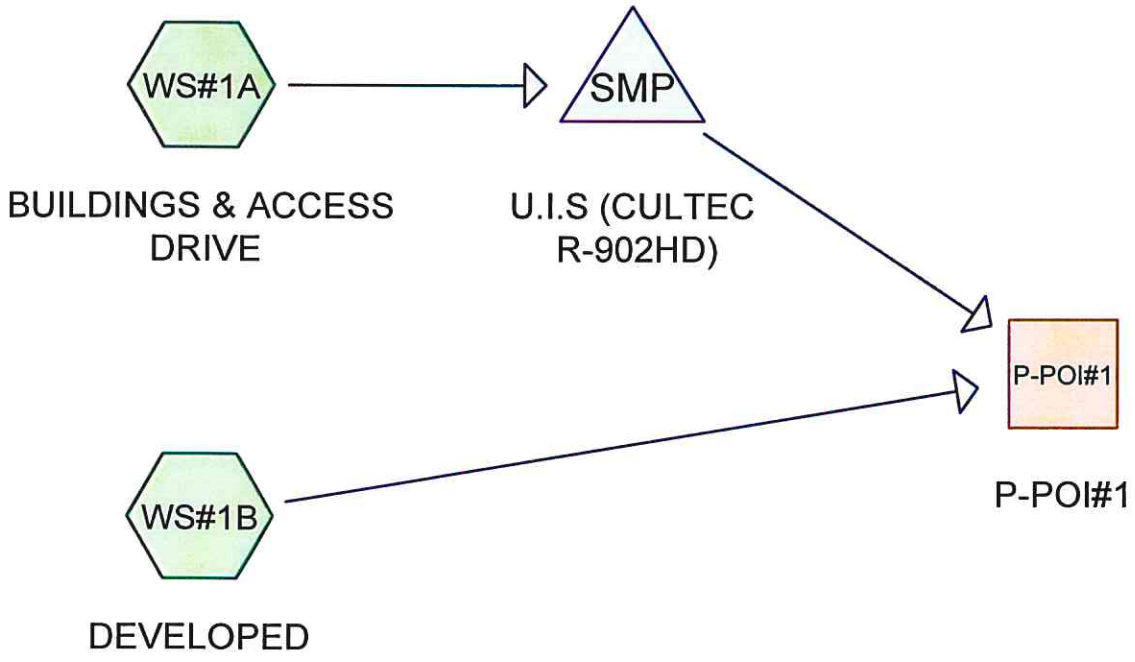
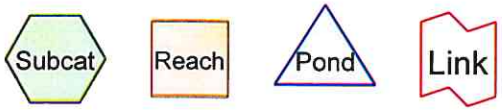
EXISTING CONDITION



DEVELOPED CONDITION





Routing Diagram for 5030 ILLINOIS PROPERTIES 26 LLC
Prepared by ATZL NASHER & ZIGLER, Printed 4/12/2024
HydroCAD® 10.00-20 s/n 03403 © 2017 HydroCAD Software Solutions LLC

Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 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 WS#1: EXISTING Runoff Area=2.388 ac 57.20% Impervious Runoff Depth=1.62"
Tc=6.0 min CN=88 Runoff=4.43 cfs 0.321 af

Subcatchment WS#1A: BUILDINGS & ACCESS Runoff Area=1.023 ac 81.43% Impervious Runoff Depth=2.13"
Tc=6.0 min CN=94 Runoff=2.41 cfs 0.181 af

Subcatchment WS#1B: DEVELOPED Runoff Area=1.365 ac 68.13% Impervious Runoff Depth=1.77"
Tc=6.0 min CN=90 Runoff=2.76 cfs 0.202 af

Reach E-POI#1: E-POI#1 Inflow=4.43 cfs 0.321 af
Outflow=4.43 cfs 0.321 af

Reach P-POI#1: P-POI#1 Inflow=2.76 cfs 0.202 af
Outflow=2.76 cfs 0.202 af

Pond SMP: U.I.S (CULTEC R-902HD) Peak Elev=541.08' Storage=2,914 cf Inflow=2.41 cfs 0.181 af
Discarded=0.31 cfs 0.181 af Primary=0.00 cfs 0.000 af Outflow=0.31 cfs 0.181 af

Total Runoff Area = 4.776 ac Runoff Volume = 0.705 af Average Runoff Depth = 1.77"
34.48% Pervious = 1.647 ac 65.52% Impervious = 3.129 ac

Summary for Subcatchment WS#1: EXISTING

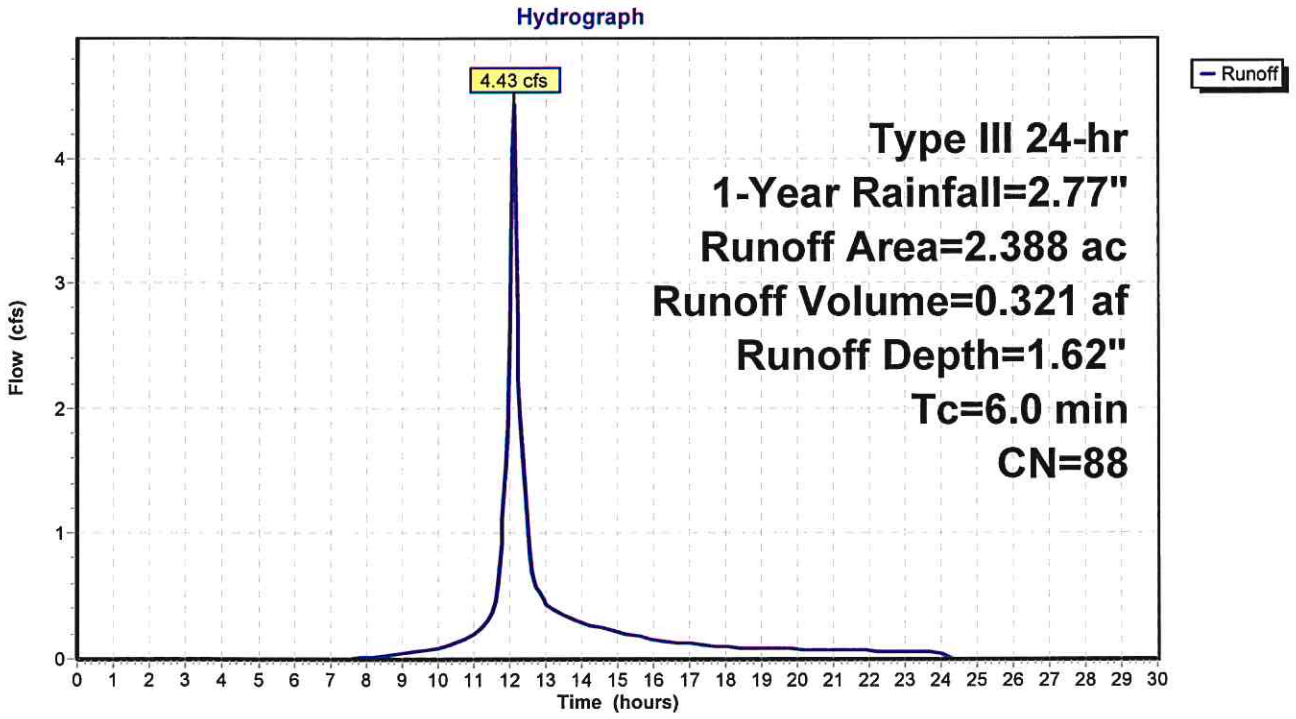
Runoff = 4.43 cfs @ 12.09 hrs, Volume= 0.321 af, Depth= 1.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 1-Year Rainfall=2.77"

	Area (ac)	CN	Description
	0.470	76	Woods/grass comb., Fair, HSG C
	0.552	74	>75% Grass cover, Good, HSG C
*	1.366	98	Impervious Cover, HSG C
	2.388	88	Weighted Average
	1.022		42.80% Pervious Area
	1.366		57.20% Impervious Area

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

Subcatchment WS#1: EXISTING



Summary for Subcatchment WS#1A: BUILDINGS & ACCESS DRIVE

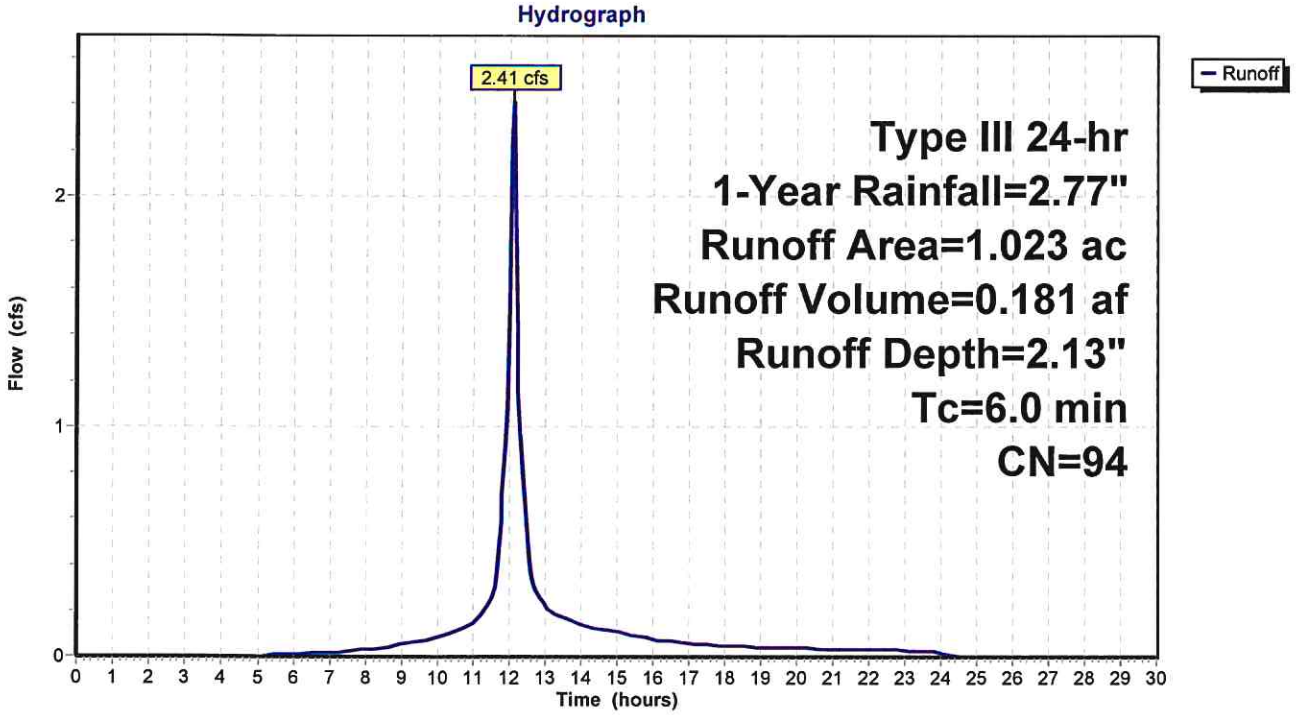
Runoff = 2.41 cfs @ 12.09 hrs, Volume= 0.181 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 1-Year Rainfall=2.77"

Area (ac)	CN	Description
0.833	98	Paved parking, HSG C
0.190	74	>75% Grass cover, Good, HSG C
1.023	94	Weighted Average
0.190		18.57% Pervious Area
0.833		81.43% Impervious Area

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

Subcatchment WS#1A: BUILDINGS & ACCESS DRIVE



Summary for Subcatchment WS#1B: DEVELOPED

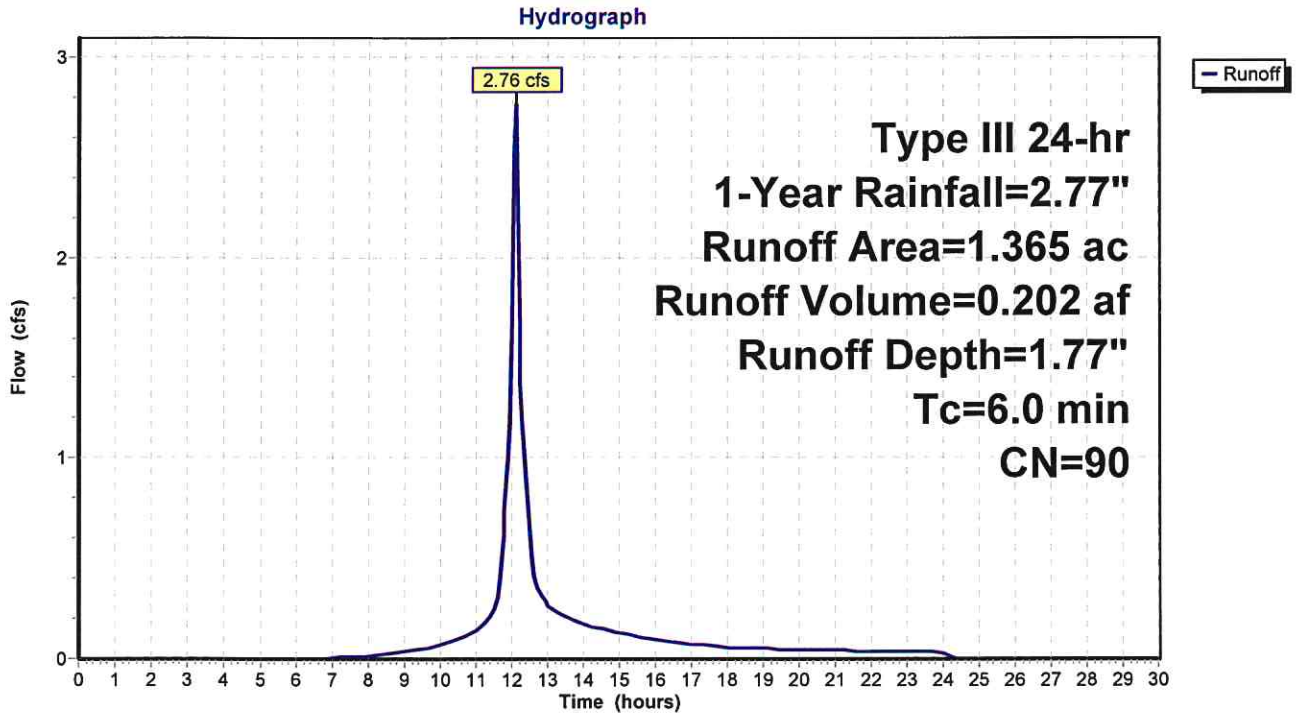
Runoff = 2.76 cfs @ 12.09 hrs, Volume= 0.202 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 1-Year Rainfall=2.77"

Area (ac)	CN	Description
0.930	98	Paved parking, HSG C
0.435	74	>75% Grass cover, Good, HSG C
1.365	90	Weighted Average
0.435		31.87% Pervious Area
0.930		68.13% Impervious Area

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

Subcatchment WS#1B: DEVELOPED

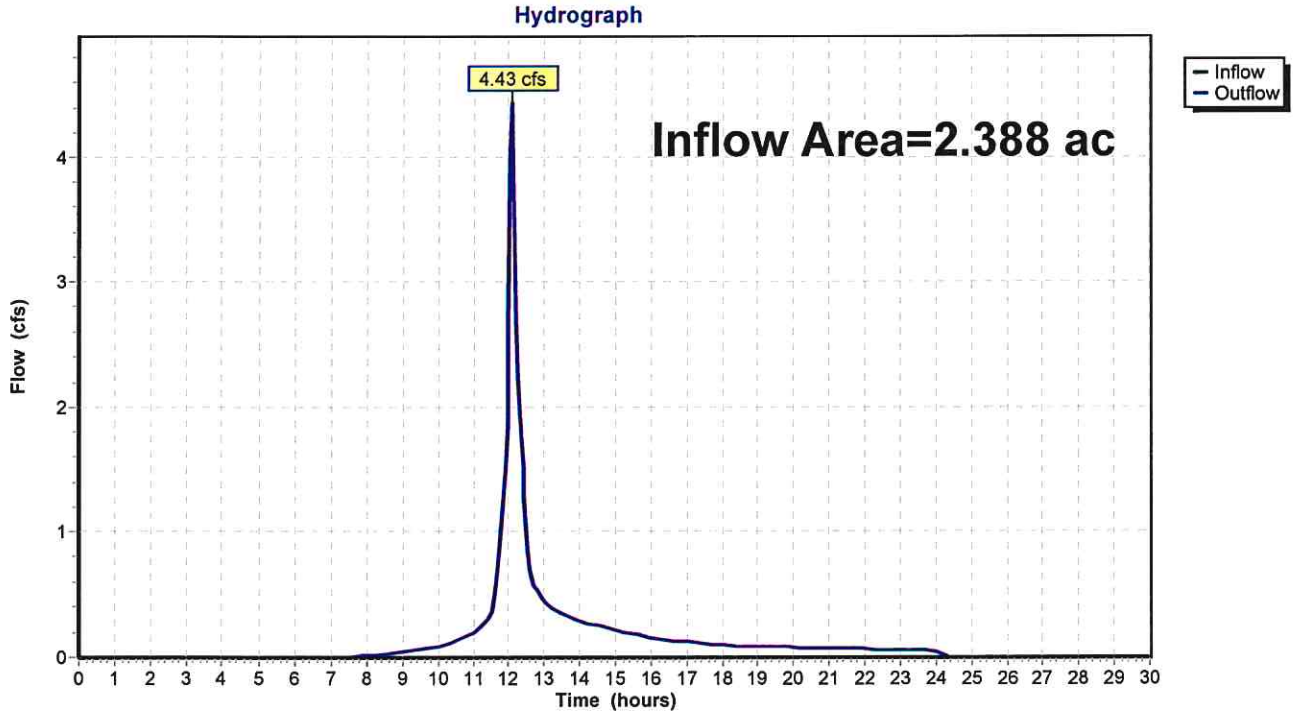


Summary for Reach E-POI#1: E-POI#1

Inflow Area = 2.388 ac, 57.20% Impervious, Inflow Depth = 1.62" for 1-Year event
Inflow = 4.43 cfs @ 12.09 hrs, Volume= 0.321 af
Outflow = 4.43 cfs @ 12.09 hrs, Volume= 0.321 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Reach E-POI#1: E-POI#1

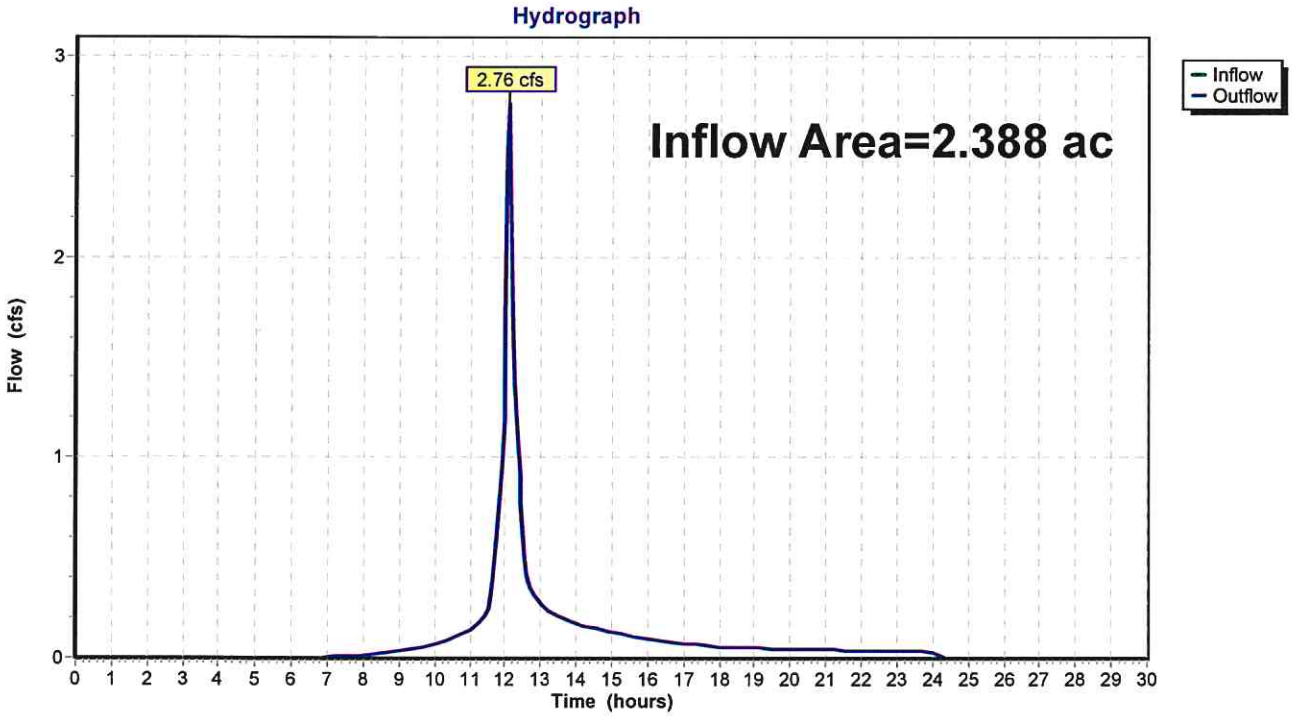


Summary for Reach P-POI#1: P-POI#1

Inflow Area = 2.388 ac, 73.83% Impervious, Inflow Depth = 1.01" for 1-Year event
Inflow = 2.76 cfs @ 12.09 hrs, Volume= 0.202 af
Outflow = 2.76 cfs @ 12.09 hrs, Volume= 0.202 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Reach P-POI#1: P-POI#1



Summary for Pond SMP: U.I.S (CULTEC R-902HD)

Inflow Area = 1.023 ac, 81.43% Impervious, Inflow Depth = 2.13" for 1-Year event
Inflow = 2.41 cfs @ 12.09 hrs, Volume= 0.181 af
Outflow = 0.31 cfs @ 12.67 hrs, Volume= 0.181 af, Atten= 87%, Lag= 34.6 min
Discarded = 0.31 cfs @ 12.67 hrs, Volume= 0.181 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 541.08' @ 12.67 hrs Surf.Area= 1,241 sf Storage= 2,914 cf

Plug-Flow detention time= 83.6 min calculated for 0.181 af (100% of inflow)
Center-of-Mass det. time= 83.5 min (875.5 - 792.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	537.65'	1,843 cf	**8.50'W x 146.03'L x 5.75'H Field A** 7,137 cf Overall - 2,530 cf Embedded = 4,607 cf x 40.0% Voids
#2A	538.40'	2,530 cf	**Cultec R-902HD** x 39 Inside #1 Effective Size= 69.8"W x 48.0"H => 17.65 sf x 3.67'L = 64.7 cf Overall Size= 78.0"W x 48.0"H x 4.10'L with 0.44' Overlap Cap Storage= +2.8 cf x 2 x 1 rows = 5.5 cf
		4,373 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	537.65'	**5.000 in/hr Exfiltration over Surface area** Conductivity to Groundwater Elevation = 534.65' Phase-In= 0.01'
#2	Primary	542.00'	**1.9' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)

Discarded OutFlow Max=0.31 cfs @ 12.67 hrs HW=541.08' (Free Discharge)
↑—**1=Exfiltration** (Controls 0.31 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=537.65' (Free Discharge)
↑—**2=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond SMP: U.I.S (CULTEC R-902HD) - Chamber Wizard Field A

Chamber Model = Cultec R-902HD (Cultec Recharger® 902HD)
Effective Size= 69.8"W x 48.0"H => 17.65 sf x 3.67'L = 64.7 cf
Overall Size= 78.0"W x 48.0"H x 4.10'L with 0.44' Overlap
Cap Storage= +2.8 cf x 2 x 1 rows = 5.5 cf

39 Chambers/Row x 3.67' Long +0.52' Cap Length x 2 = 144.03' Row Length +12.0" End Stone x 2 = 146.03' Base Length
1 Rows x 78.0" Wide + 12.0" Side Stone x 2 = 8.50' Base Width
9.0" Base + 48.0" Chamber Height + 12.0" Cover = 5.75' Field Height

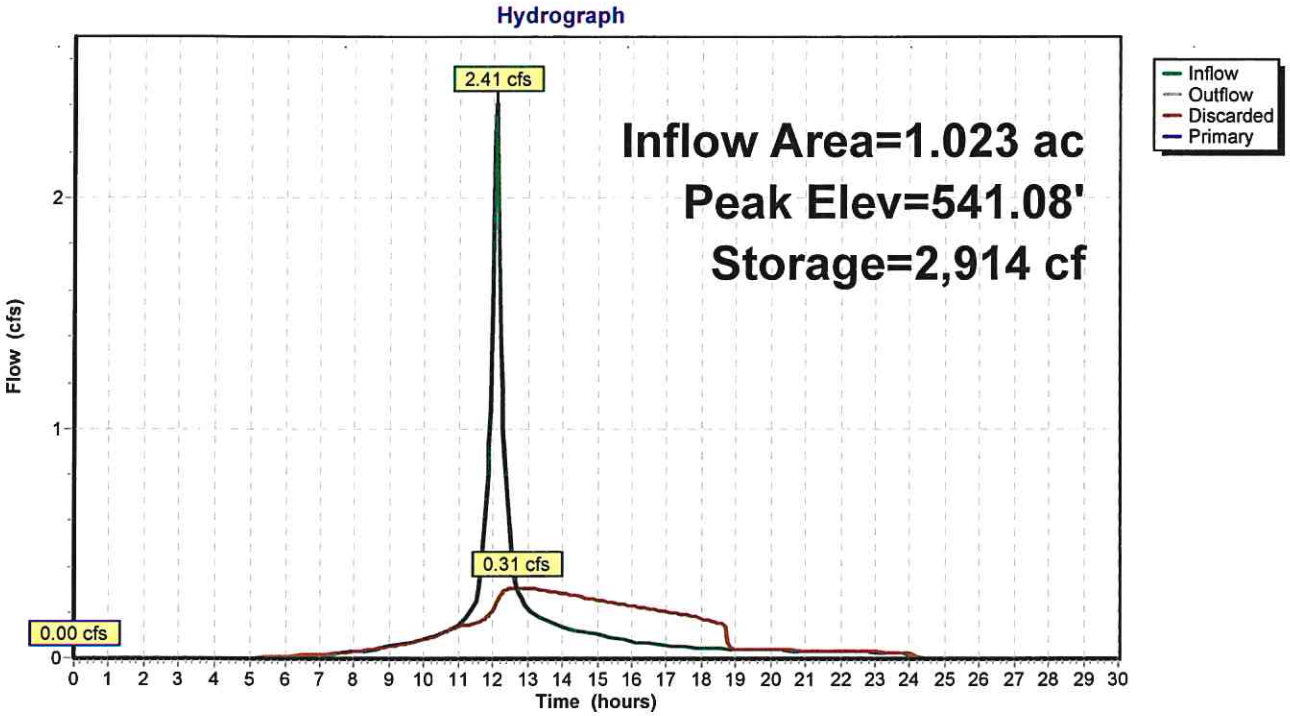
39 Chambers x 64.7 cf + 2.8 cf Cap Volume x 2 x 1 Rows = 2,530.2 cf Chamber Storage

7,137.4 cf Field - 2,530.2 cf Chambers = 4,607.2 cf Stone x 40.0% Voids = 1,842.9 cf Stone Storage

Chamber Storage + Stone Storage = 4,373.1 cf = 0.100 af
Overall Storage Efficiency = 61.3%
Overall System Size = 146.03' x 8.50' x 5.75'

39 Chambers
264.3 cy Field
170.6 cy Stone

Pond SMP: U.I.S (CULTEC R-902HD)



Stage-Discharge for Pond SMP: U.I.S (CULTEC R-902HD)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
537.65	0.00	0.00	0.00
537.75	0.15	0.15	0.00
537.85	0.15	0.15	0.00
537.95	0.16	0.16	0.00
538.05	0.16	0.16	0.00
538.15	0.17	0.17	0.00
538.25	0.17	0.17	0.00
538.35	0.18	0.18	0.00
538.45	0.18	0.18	0.00
538.55	0.19	0.19	0.00
538.65	0.19	0.19	0.00
538.75	0.20	0.20	0.00
538.85	0.20	0.20	0.00
538.95	0.21	0.21	0.00
539.05	0.21	0.21	0.00
539.15	0.22	0.22	0.00
539.25	0.22	0.22	0.00
539.35	0.23	0.23	0.00
539.45	0.23	0.23	0.00
539.55	0.23	0.23	0.00
539.65	0.24	0.24	0.00
539.75	0.24	0.24	0.00
539.85	0.25	0.25	0.00
539.95	0.25	0.25	0.00
540.05	0.26	0.26	0.00
540.15	0.26	0.26	0.00
540.25	0.27	0.27	0.00
540.35	0.27	0.27	0.00
540.45	0.28	0.28	0.00
540.55	0.28	0.28	0.00
540.65	0.29	0.29	0.00
540.75	0.29	0.29	0.00
540.85	0.30	0.30	0.00
540.95	0.30	0.30	0.00
541.05	0.31	0.31	0.00
541.15	0.31	0.31	0.00
541.25	0.32	0.32	0.00
541.35	0.32	0.32	0.00
541.45	0.33	0.33	0.00
541.55	0.33	0.33	0.00
541.65	0.34	0.34	0.00
541.75	0.34	0.34	0.00
541.85	0.34	0.34	0.00
541.95	0.35	0.35	0.00
542.05	0.42	0.35	0.07
542.15	0.71	0.36	0.36
542.25	1.12	0.36	0.76
542.35	1.61	0.37	1.24
542.45	2.16	0.37	1.79
542.55	2.77	0.38	2.39
542.65	3.42	0.38	3.03
542.75	4.10	0.39	3.72
542.85	4.83	0.39	4.43
542.95	5.58	0.40	5.18
543.05	6.35	0.40	5.95
543.15	7.14	0.41	6.73
543.25	7.95	0.41	7.54
543.35	**8.78**	**0.42**	**8.36**

Stage-Area-Storage for Pond SMP: U.I.S (CULTEC R-902HD)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
537.65	**1,241**	0
537.75	1,241	50
537.85	1,241	99
537.95	1,241	149
538.05	1,241	199
538.15	1,241	248
538.25	1,241	298
538.35	1,241	348
538.45	1,241	422
538.55	1,241	521
538.65	1,241	621
538.75	1,241	720
538.85	1,241	818
538.95	1,241	917
539.05	1,241	1,015
539.15	1,241	1,113
539.25	1,241	1,210
539.35	1,241	1,307
539.45	1,241	1,403
539.55	1,241	1,500
539.65	1,241	1,596
539.75	1,241	1,691
539.85	1,241	1,786
539.95	1,241	1,880
540.05	1,241	1,974
540.15	1,241	2,068
540.25	1,241	2,161
540.35	1,241	2,254
540.45	1,241	2,347
540.55	1,241	2,438
540.65	1,241	2,530
540.75	1,241	2,620
540.85	1,241	2,709
540.95	1,241	2,798
541.05	1,241	2,886
541.15	1,241	2,972
541.25	1,241	3,058
541.35	1,241	3,142
541.45	1,241	3,224
541.55	1,241	3,305
541.65	1,241	3,384
541.75	1,241	3,461
541.85	1,241	3,536
541.95	1,241	3,608
542.05	1,241	3,676
542.15	1,241	3,740
542.25	1,241	3,797
542.35	1,241	3,851
542.45	1,241	3,901
542.55	1,241	3,951
542.65	1,241	4,001
542.75	1,241	4,050
542.85	1,241	4,100
542.95	1,241	4,150
543.05	1,241	4,199
543.15	1,241	4,249
543.25	1,241	4,299
543.35	1,241	**4,348**

Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 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 WS#1: EXISTING Runoff Area=2.388 ac 57.20% Impervious Runoff Depth=3.72"
Tc=6.0 min CN=88 Runoff=9.93 cfs 0.740 af

Subcatchment WS#1A: BUILDINGS & ACCESS Runoff Area=1.023 ac 81.43% Impervious Runoff Depth=4.36"
Tc=6.0 min CN=94 Runoff=4.74 cfs 0.371 af

Subcatchment WS#1B: DEVELOPED Runoff Area=1.365 ac 68.13% Impervious Runoff Depth=3.92"
Tc=6.0 min CN=90 Runoff=5.92 cfs 0.446 af

Reach E-POI#1: E-POI#1 Inflow=9.93 cfs 0.740 af
Outflow=9.93 cfs 0.740 af

Reach P-POI#1: P-POI#1 Inflow=8.80 cfs 0.529 af
Outflow=8.80 cfs 0.529 af

Pond SMP: U.I.S (CULTEC R-902HD) Peak Elev=542.79' Storage=4,069 cf Inflow=4.74 cfs 0.371 af
Discarded=0.39 cfs 0.289 af Primary=3.98 cfs 0.082 af Outflow=4.37 cfs 0.371 af

Total Runoff Area = 4.776 ac Runoff Volume = 1.557 af Average Runoff Depth = 3.91"
34.48% Pervious = 1.647 ac 65.52% Impervious = 3.129 ac

Summary for Subcatchment WS#1: EXISTING

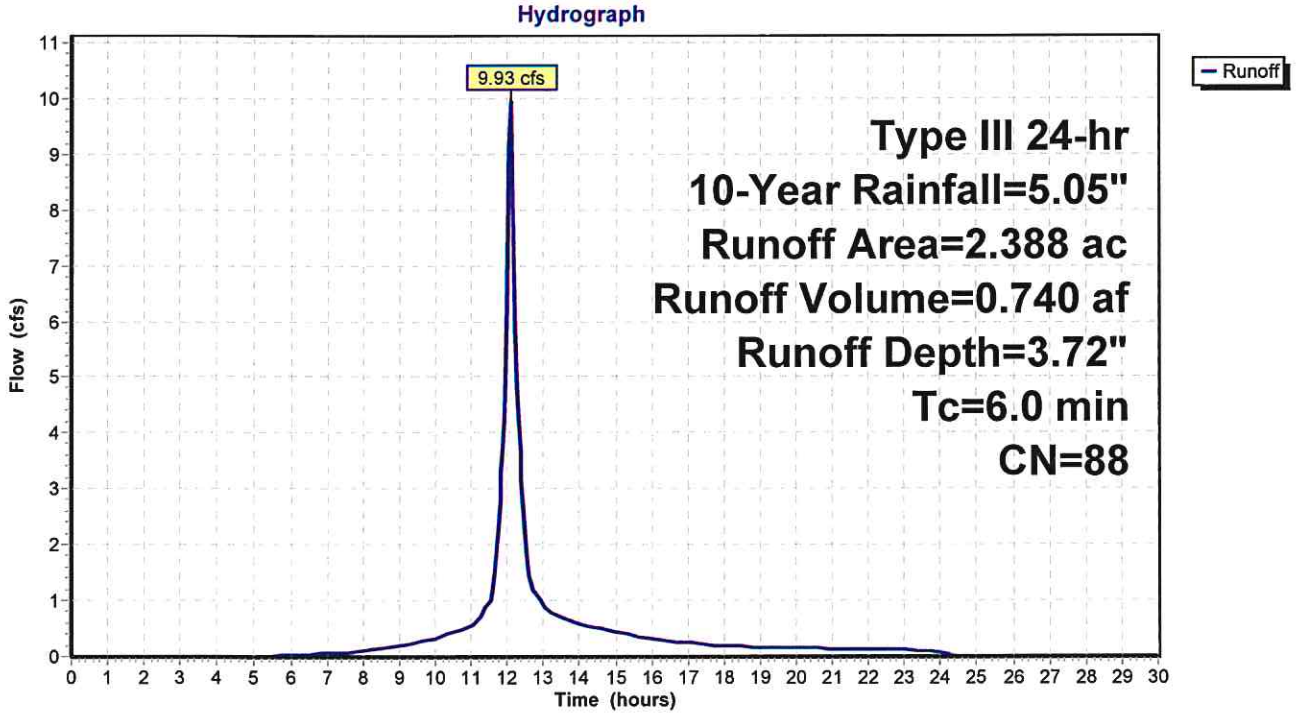
Runoff = 9.93 cfs @ 12.09 hrs, Volume= 0.740 af, Depth= 3.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=5.05"

	Area (ac)	CN	Description
	0.470	76	Woods/grass comb., Fair, HSG C
	0.552	74	>75% Grass cover, Good, HSG C
*	1.366	98	Impervious Cover, HSG C
	2.388	88	Weighted Average
	1.022		42.80% Pervious Area
	1.366		57.20% Impervious Area

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

Subcatchment WS#1: EXISTING



Summary for Subcatchment WS#1A: BUILDINGS & ACCESS DRIVE

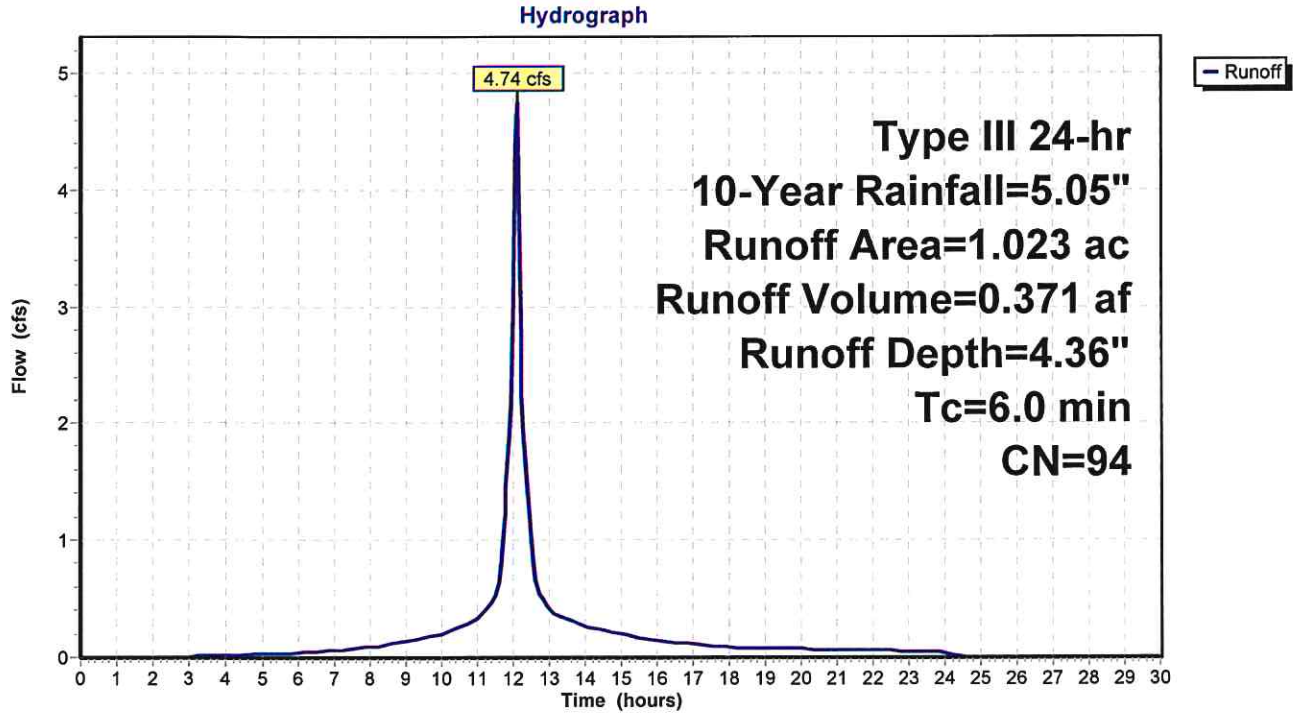
Runoff = 4.74 cfs @ 12.09 hrs, Volume= 0.371 af, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=5.05"

Area (ac)	CN	Description
0.833	98	Paved parking, HSG C
0.190	74	>75% Grass cover, Good, HSG C
1.023	94	Weighted Average
0.190		18.57% Pervious Area
0.833		81.43% Impervious Area

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

Subcatchment WS#1A: BUILDINGS & ACCESS DRIVE



Summary for Subcatchment WS#1B: DEVELOPED

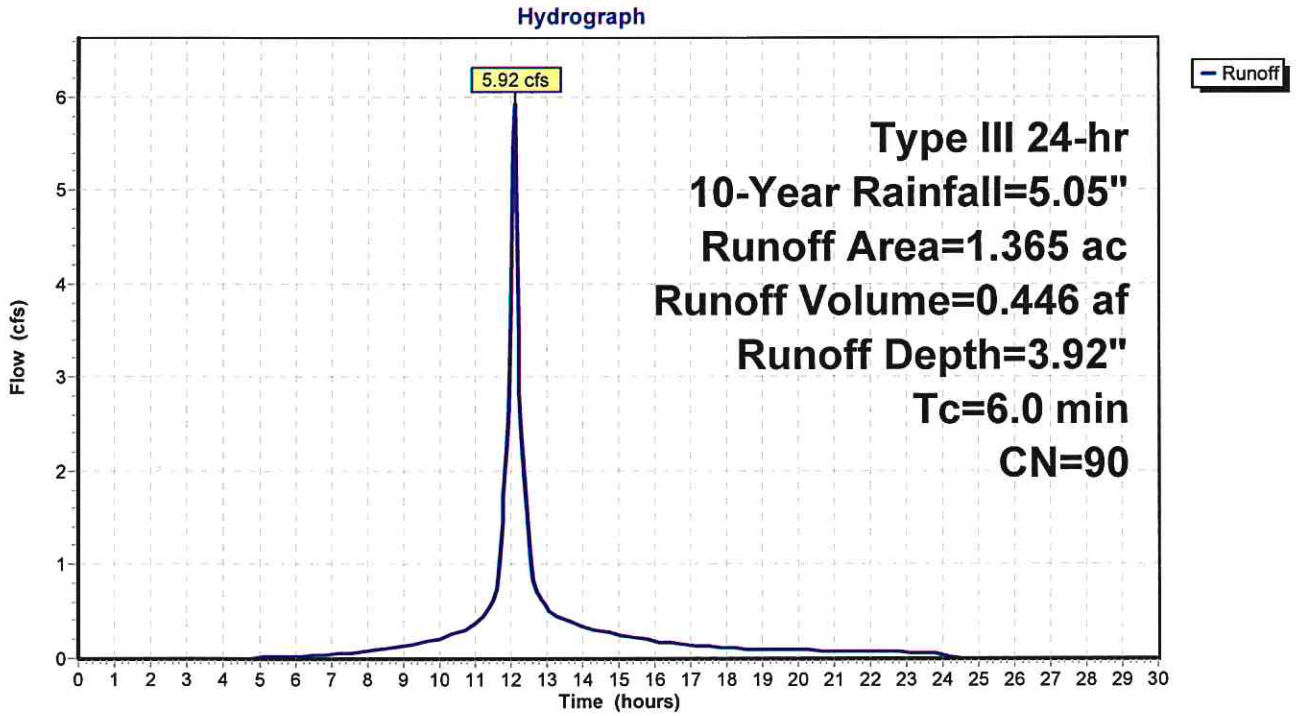
Runoff = 5.92 cfs @ 12.09 hrs, Volume= 0.446 af, Depth= 3.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=5.05"

Area (ac)	CN	Description
0.930	98	Paved parking, HSG C
0.435	74	>75% Grass cover, Good, HSG C
1.365	90	Weighted Average
0.435		31.87% Pervious Area
0.930		68.13% Impervious Area

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

Subcatchment WS#1B: DEVELOPED

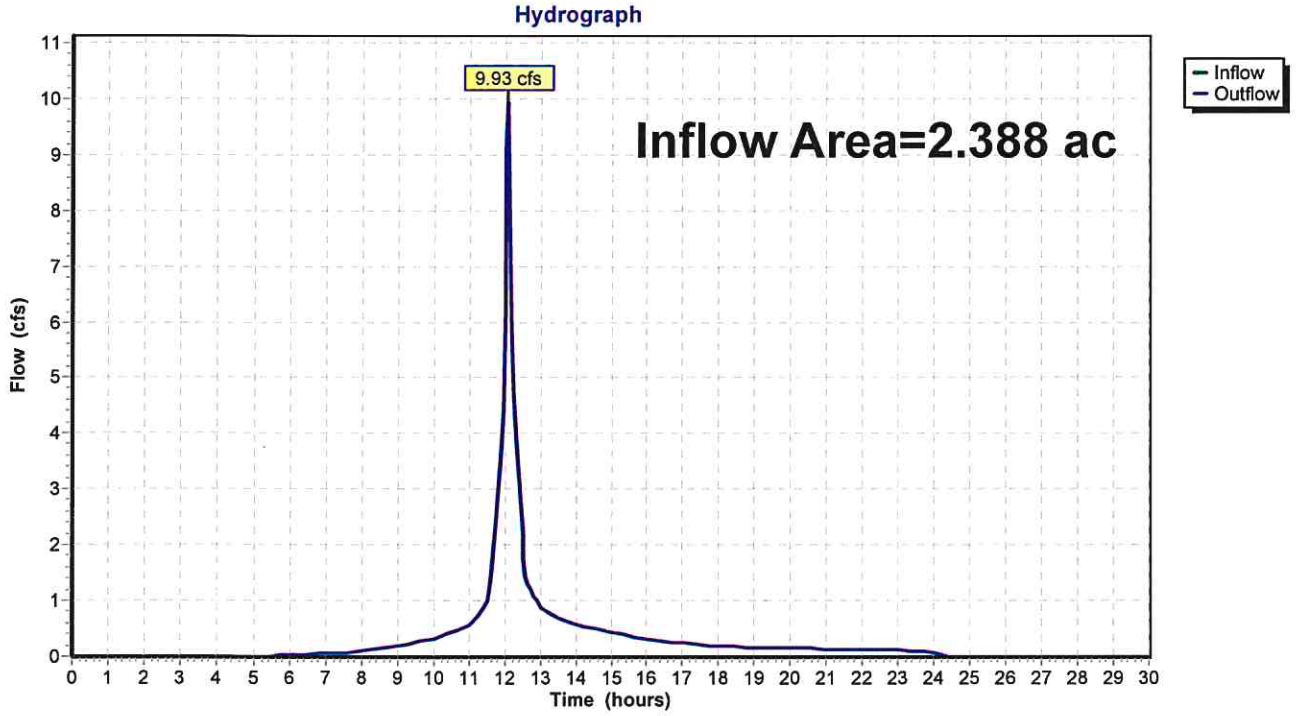


Summary for Reach E-POI#1: E-POI#1

Inflow Area = 2.388 ac, 57.20% Impervious, Inflow Depth = 3.72" for 10-Year event
Inflow = 9.93 cfs @ 12.09 hrs, Volume= 0.740 af
Outflow = 9.93 cfs @ 12.09 hrs, Volume= 0.740 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Reach E-POI#1: E-POI#1

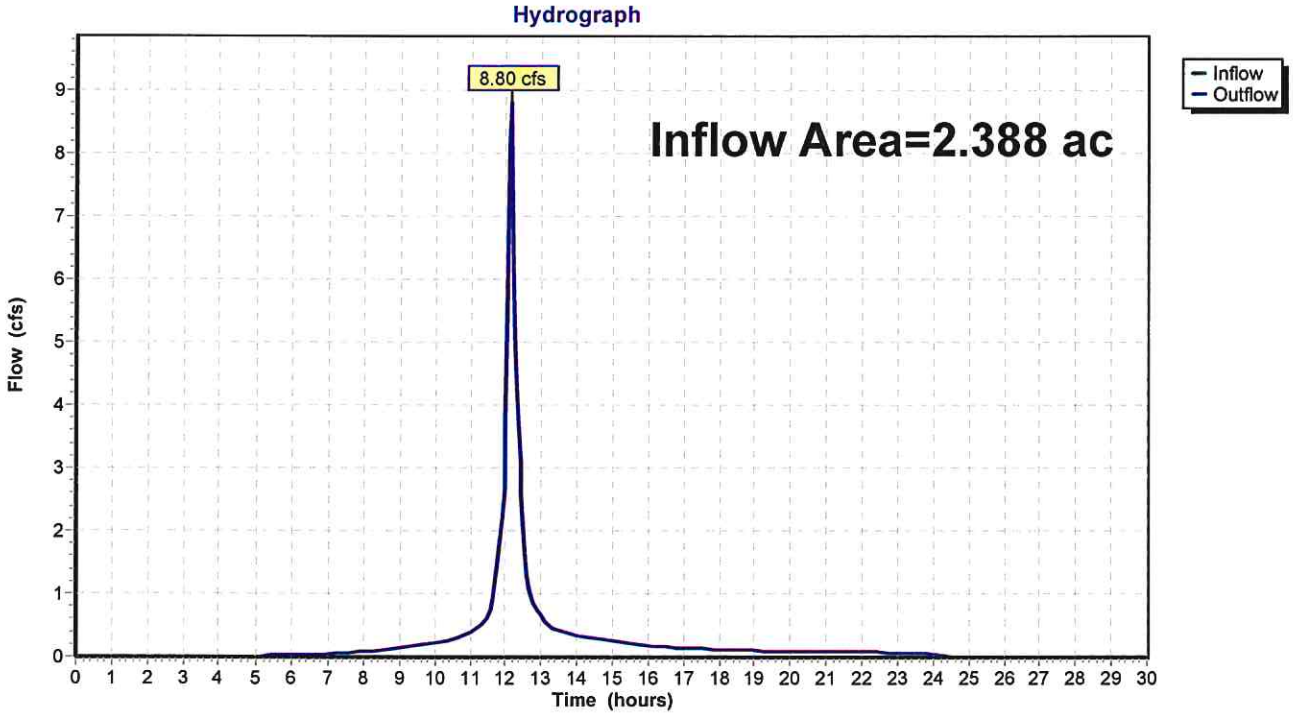


Summary for Reach P-POI#1: P-POI#1

Inflow Area = 2.388 ac, 73.83% Impervious, Inflow Depth = 2.66" for 10-Year event
Inflow = 8.80 cfs @ 12.13 hrs, Volume= 0.529 af
Outflow = 8.80 cfs @ 12.13 hrs, Volume= 0.529 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Reach P-POI#1: P-POI#1



Summary for Pond SMP: U.I.S (CULTEC R-902HD)

Inflow Area = 1.023 ac, 81.43% Impervious, Inflow Depth = 4.36" for 10-Year event
Inflow = 4.74 cfs @ 12.09 hrs, Volume= 0.371 af
Outflow = 4.37 cfs @ 12.15 hrs, Volume= 0.371 af, Atten= 8%, Lag= 4.0 min
Discarded = 0.39 cfs @ 12.15 hrs, Volume= 0.289 af
Primary = 3.98 cfs @ 12.15 hrs, Volume= 0.082 af

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 542.79' @ 12.15 hrs Surf.Area= 1,241 sf Storage= 4,069 cf

Plug-Flow detention time= 80.5 min calculated for 0.371 af (100% of inflow)
Center-of-Mass det. time= 80.4 min (853.6 - 773.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	537.65'	1,843 cf	**8.50'W x 146.03'L x 5.75'H Field A** 7,137 cf Overall - 2,530 cf Embedded = 4,607 cf x 40.0% Voids
#2A	538.40'	2,530 cf	**Cultec R-902HD** x 39 Inside #1 Effective Size= 69.8"W x 48.0"H => 17.65 sf x 3.67'L = 64.7 cf Overall Size= 78.0"W x 48.0"H x 4.10'L with 0.44' Overlap Cap Storage= +2.8 cf x 2 x 1 rows = 5.5 cf
		4,373 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	537.65'	**5.000 in/hr Exfiltration over Surface area** Conductivity to Groundwater Elevation = 534.65' Phase-In= 0.01'
#2	Primary	542.00'	**1.9' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)

Discarded OutFlow Max=0.39 cfs @ 12.15 hrs HW=542.77' (Free Discharge)
↑—**1=Exfiltration** (Controls 0.39 cfs)

Primary OutFlow Max=3.86 cfs @ 12.15 hrs HW=542.77' (Free Discharge)
↑—**2=Sharp-Crested Rectangular Weir** (Weir Controls 3.86 cfs @ 2.87 fps)

Pond SMP: U.I.S (CULTEC R-902HD) - Chamber Wizard Field A

Chamber Model = Cultec R-902HD (Cultec Recharger® 902HD)
Effective Size= 69.8"W x 48.0"H => 17.65 sf x 3.67'L = 64.7 cf
Overall Size= 78.0"W x 48.0"H x 4.10'L with 0.44' Overlap
Cap Storage= +2.8 cf x 2 x 1 rows = 5.5 cf

39 Chambers/Row x 3.67' Long +0.52' Cap Length x 2 = 144.03' Row Length +12.0" End Stone x 2 = 146.03' Base Length
1 Rows x 78.0" Wide + 12.0" Side Stone x 2 = 8.50' Base Width
9.0" Base + 48.0" Chamber Height + 12.0" Cover = 5.75' Field Height

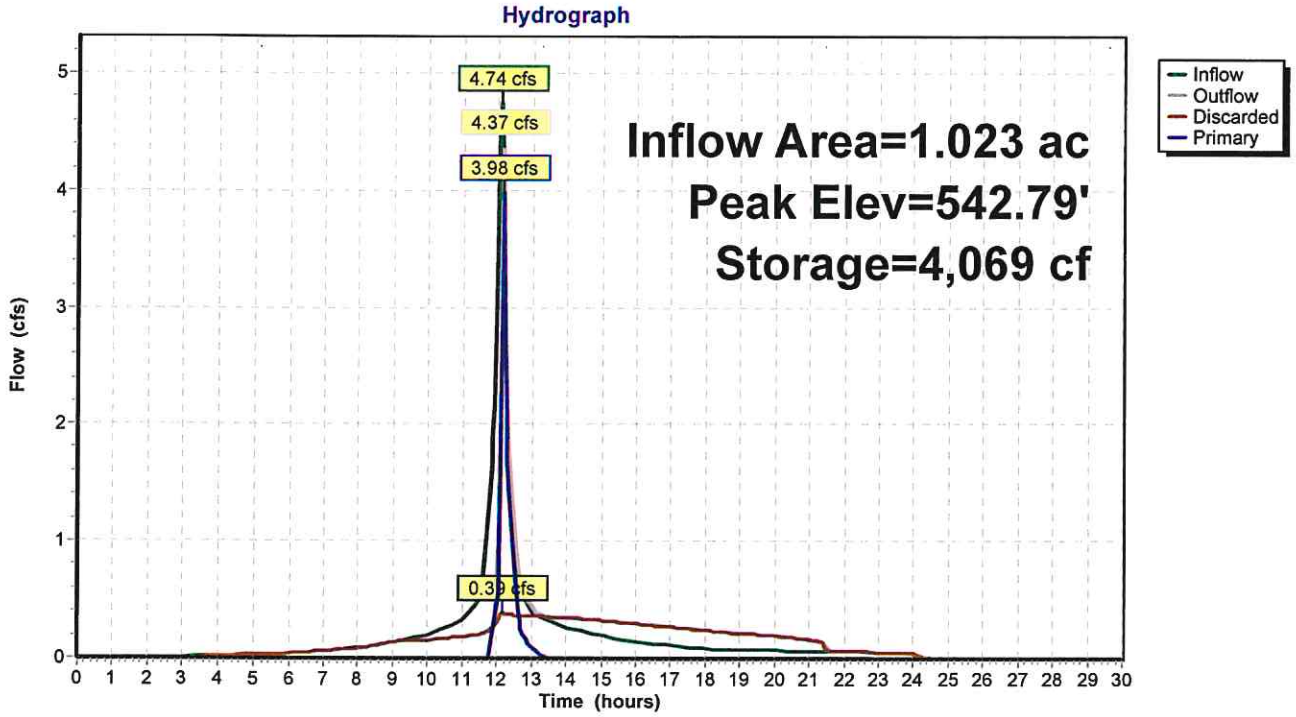
39 Chambers x 64.7 cf + 2.8 cf Cap Volume x 2 x 1 Rows = 2,530.2 cf Chamber Storage

7,137.4 cf Field - 2,530.2 cf Chambers = 4,607.2 cf Stone x 40.0% Voids = 1,842.9 cf Stone Storage

Chamber Storage + Stone Storage = 4,373.1 cf = 0.100 af
Overall Storage Efficiency = 61.3%
Overall System Size = 146.03' x 8.50' x 5.75'

39 Chambers
264.3 cy Field
170.6 cy Stone

Pond SMP: U.I.S (CULTEC R-902HD)



Stage-Discharge for Pond SMP: U.I.S (CULTEC R-902HD)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
537.65	0.00	0.00	0.00
537.75	0.15	0.15	0.00
537.85	0.15	0.15	0.00
537.95	0.16	0.16	0.00
538.05	0.16	0.16	0.00
538.15	0.17	0.17	0.00
538.25	0.17	0.17	0.00
538.35	0.18	0.18	0.00
538.45	0.18	0.18	0.00
538.55	0.19	0.19	0.00
538.65	0.19	0.19	0.00
538.75	0.20	0.20	0.00
538.85	0.20	0.20	0.00
538.95	0.21	0.21	0.00
539.05	0.21	0.21	0.00
539.15	0.22	0.22	0.00
539.25	0.22	0.22	0.00
539.35	0.23	0.23	0.00
539.45	0.23	0.23	0.00
539.55	0.23	0.23	0.00
539.65	0.24	0.24	0.00
539.75	0.24	0.24	0.00
539.85	0.25	0.25	0.00
539.95	0.25	0.25	0.00
540.05	0.26	0.26	0.00
540.15	0.26	0.26	0.00
540.25	0.27	0.27	0.00
540.35	0.27	0.27	0.00
540.45	0.28	0.28	0.00
540.55	0.28	0.28	0.00
540.65	0.29	0.29	0.00
540.75	0.29	0.29	0.00
540.85	0.30	0.30	0.00
540.95	0.30	0.30	0.00
541.05	0.31	0.31	0.00
541.15	0.31	0.31	0.00
541.25	0.32	0.32	0.00
541.35	0.32	0.32	0.00
541.45	0.33	0.33	0.00
541.55	0.33	0.33	0.00
541.65	0.34	0.34	0.00
541.75	0.34	0.34	0.00
541.85	0.34	0.34	0.00
541.95	0.35	0.35	0.00
542.05	0.42	0.35	0.07
542.15	0.71	0.36	0.36
542.25	1.12	0.36	0.76
542.35	1.61	0.37	1.24
542.45	2.16	0.37	1.79
542.55	2.77	0.38	2.39
542.65	3.42	0.38	3.03
542.75	4.10	0.39	3.72
542.85	4.83	0.39	4.43
542.95	5.58	0.40	5.18
543.05	6.35	0.40	5.95
543.15	7.14	0.41	6.73
543.25	7.95	0.41	7.54
543.35	**8.78**	**0.42**	**8.36**

Stage-Area-Storage for Pond SMP: U.I.S (CULTEC R-902HD)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
537.65	**1,241**	0
537.75	1,241	50
537.85	1,241	99
537.95	1,241	149
538.05	1,241	199
538.15	1,241	248
538.25	1,241	298
538.35	1,241	348
538.45	1,241	422
538.55	1,241	521
538.65	1,241	621
538.75	1,241	720
538.85	1,241	818
538.95	1,241	917
539.05	1,241	1,015
539.15	1,241	1,113
539.25	1,241	1,210
539.35	1,241	1,307
539.45	1,241	1,403
539.55	1,241	1,500
539.65	1,241	1,596
539.75	1,241	1,691
539.85	1,241	1,786
539.95	1,241	1,880
540.05	1,241	1,974
540.15	1,241	2,068
540.25	1,241	2,161
540.35	1,241	2,254
540.45	1,241	2,347
540.55	1,241	2,438
540.65	1,241	2,530
540.75	1,241	2,620
540.85	1,241	2,709
540.95	1,241	2,798
541.05	1,241	2,886
541.15	1,241	2,972
541.25	1,241	3,058
541.35	1,241	3,142
541.45	1,241	3,224
541.55	1,241	3,305
541.65	1,241	3,384
541.75	1,241	3,461
541.85	1,241	3,536
541.95	1,241	3,608
542.05	1,241	3,676
542.15	1,241	3,740
542.25	1,241	3,797
542.35	1,241	3,851
542.45	1,241	3,901
542.55	1,241	3,951
542.65	1,241	4,001
542.75	1,241	4,050
542.85	1,241	4,100
542.95	1,241	4,150
543.05	1,241	4,199
543.15	1,241	4,249
543.25	1,241	4,299
543.35	1,241	**4,348**

Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentWS#1: EXISTING Runoff Area=2.388 ac 57.20% Impervious Runoff Depth=7.55"
Tc=6.0 min CN=88 Runoff=19.41 cfs 1.502 af

SubcatchmentWS#1A: BUILDINGS & ACCESS Runoff Area=1.023 ac 81.43% Impervious Runoff Depth=8.28"
Tc=6.0 min CN=94 Runoff=8.70 cfs 0.706 af

SubcatchmentWS#1B: DEVELOPED Runoff Area=1.365 ac 68.13% Impervious Runoff Depth=7.79"
Tc=6.0 min CN=90 Runoff=11.30 cfs 0.886 af

Reach E-POI#1: E-POI#1 Inflow=19.41 cfs 1.502 af
Outflow=19.41 cfs 1.502 af

Reach P-POI#1: P-POI#1 Inflow=19.38 cfs 1.189 af
Outflow=19.38 cfs 1.189 af

Pond SMP: U.I.S (CULTEC R-902HD) Peak Elev=543.33' Storage=4,336 cf Inflow=8.70 cfs 0.706 af
Discarded=0.42 cfs 0.403 af Primary=8.16 cfs 0.302 af Outflow=8.57 cfs 0.706 af

Total Runoff Area = 4.776 ac Runoff Volume = 3.094 af Average Runoff Depth = 7.77"
34.48% Pervious = 1.647 ac 65.52% Impervious = 3.129 ac

Summary for Subcatchment WS#1: EXISTING

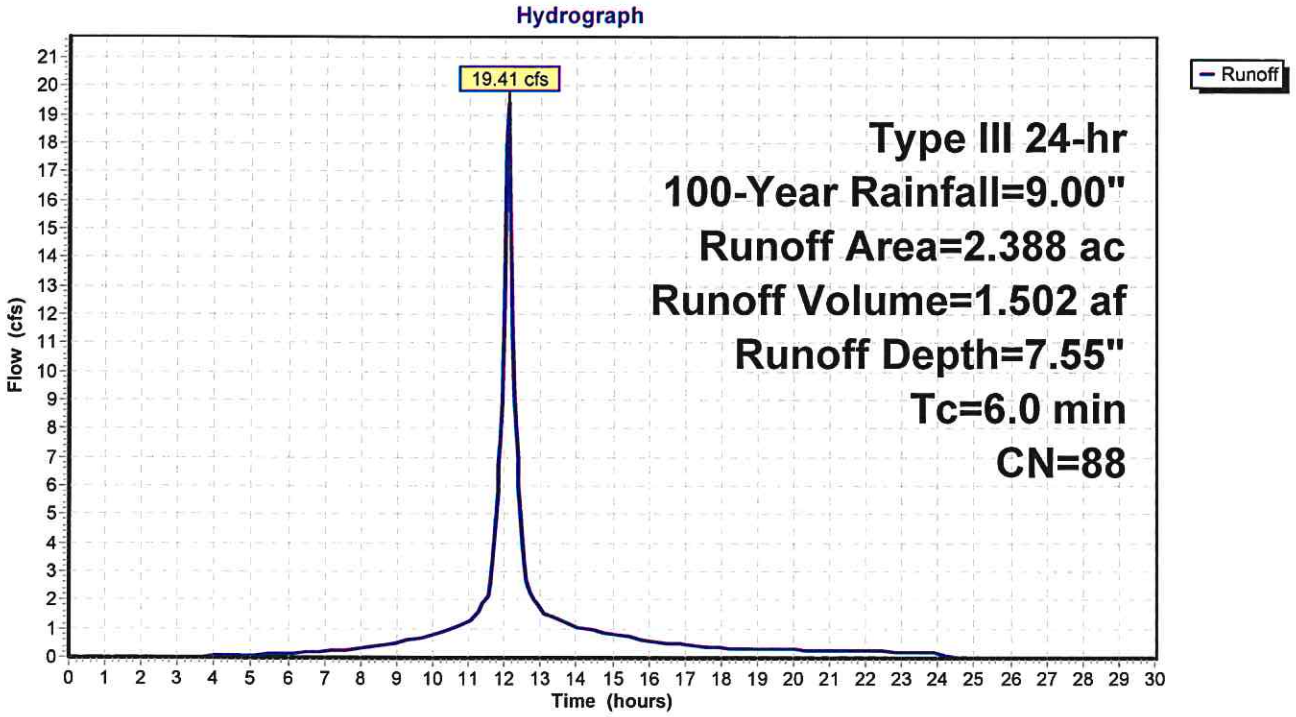
Runoff = 19.41 cfs @ 12.09 hrs, Volume= 1.502 af, Depth= 7.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=9.00"

	Area (ac)	CN	Description
	0.470	76	Woods/grass comb., Fair, HSG C
	0.552	74	>75% Grass cover, Good, HSG C
*	1.366	98	Impervious Cover, HSG C
	2.388	88	Weighted Average
	1.022		42.80% Pervious Area
	1.366		57.20% Impervious Area

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

Subcatchment WS#1: EXISTING



Summary for Subcatchment WS#1A: BUILDINGS & ACCESS DRIVE

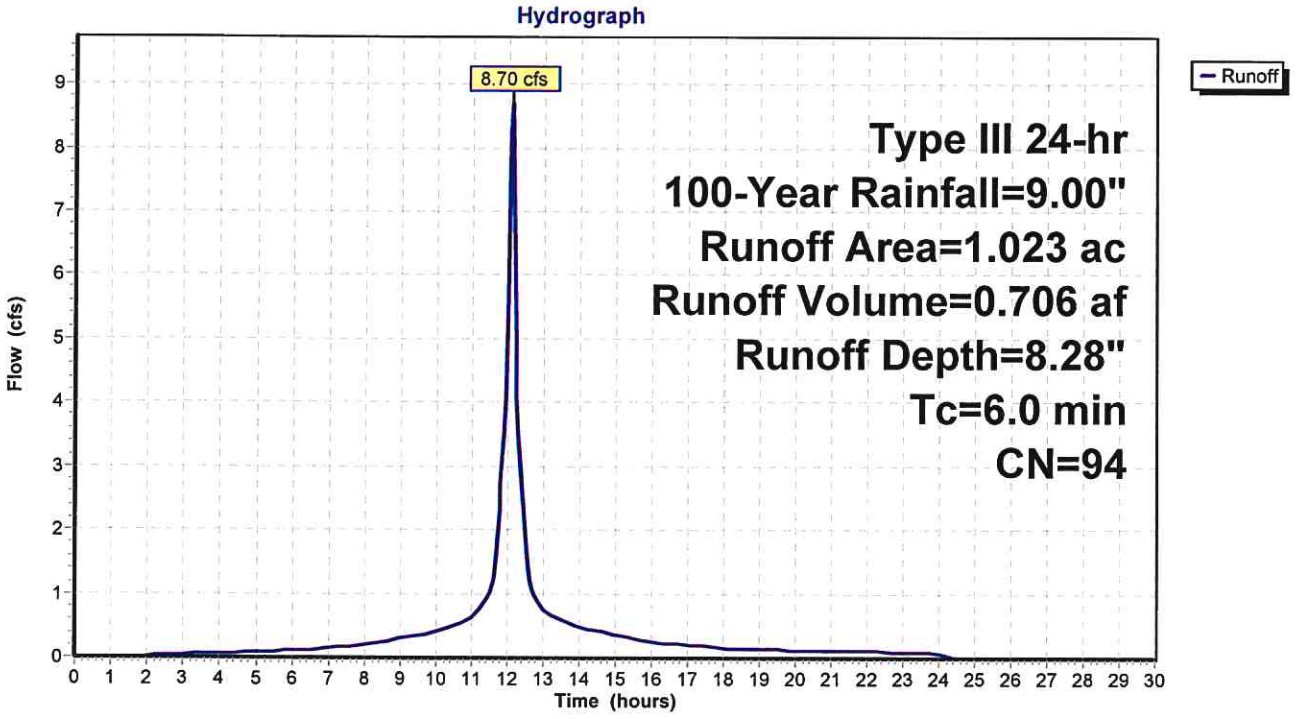
Runoff = 8.70 cfs @ 12.09 hrs, Volume= 0.706 af, Depth= 8.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=9.00"

Area (ac)	CN	Description
0.833	98	Paved parking, HSG C
0.190	74	>75% Grass cover, Good, HSG C
1.023	94	Weighted Average
0.190		18.57% Pervious Area
0.833		81.43% Impervious Area

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

Subcatchment WS#1A: BUILDINGS & ACCESS DRIVE



Summary for Subcatchment WS#1B: DEVELOPED

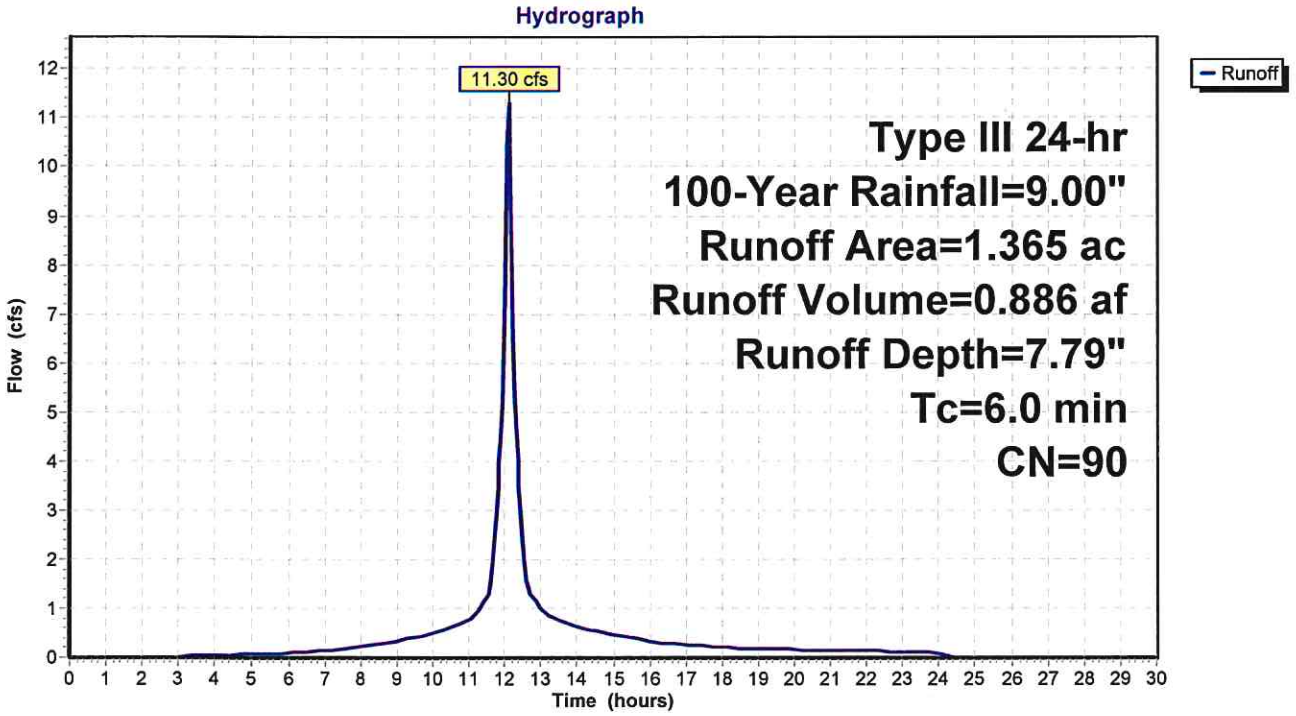
Runoff = 11.30 cfs @ 12.09 hrs, Volume= 0.886 af, Depth= 7.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=9.00"

Area (ac)	CN	Description
0.930	98	Paved parking, HSG C
0.435	74	>75% Grass cover, Good, HSG C
1.365	90	Weighted Average
0.435		31.87% Pervious Area
0.930		68.13% Impervious Area

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

Subcatchment WS#1B: DEVELOPED

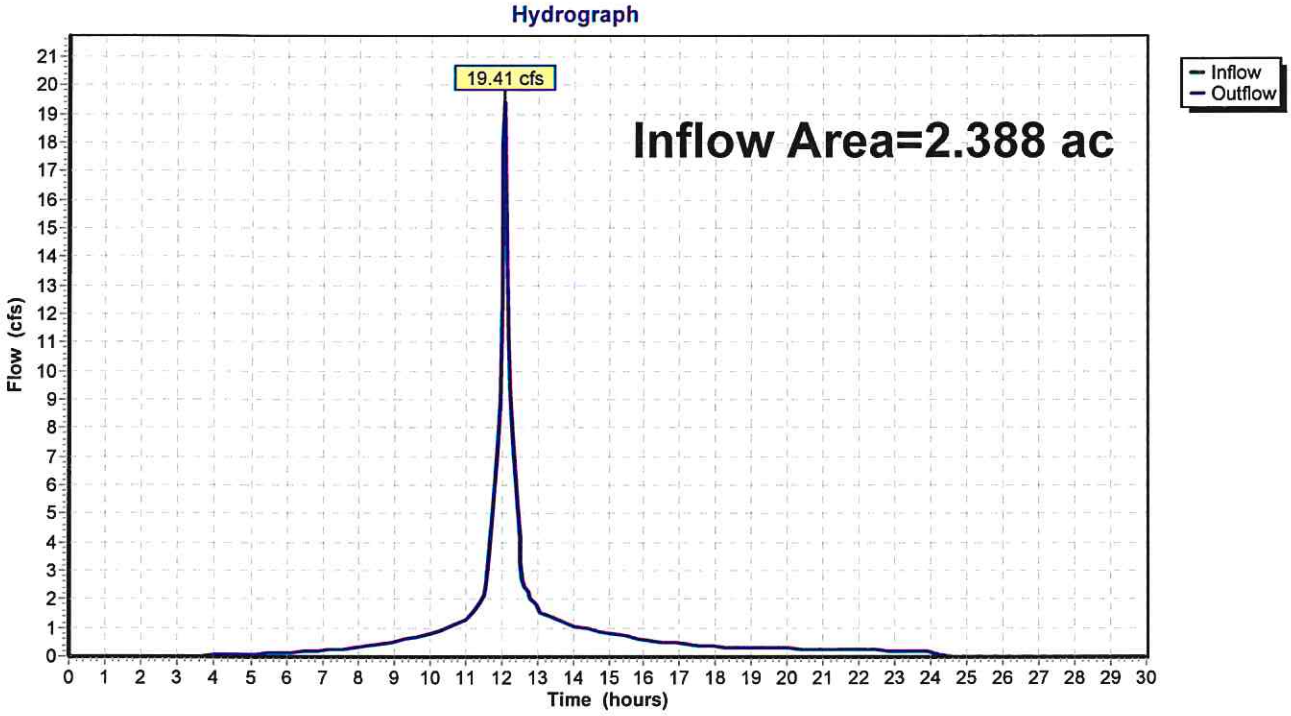


Summary for Reach E-POI#1: E-POI#1

Inflow Area = 2.388 ac, 57.20% Impervious, Inflow Depth = 7.55" for 100-Year event
Inflow = 19.41 cfs @ 12.09 hrs, Volume= 1.502 af
Outflow = 19.41 cfs @ 12.09 hrs, Volume= 1.502 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Reach E-POI#1: E-POI#1

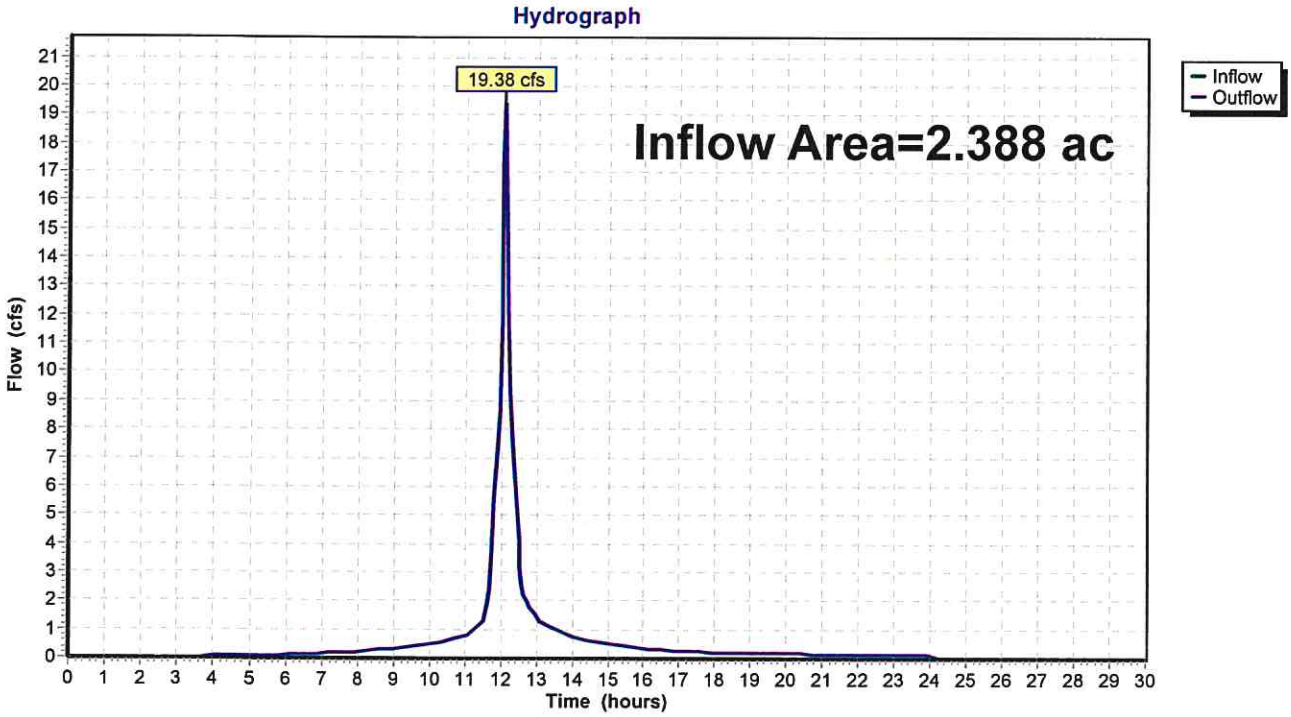


Summary for Reach P-POI#1: P-POI#1

Inflow Area = 2.388 ac, 73.83% Impervious, Inflow Depth = 5.97" for 100-Year event
Inflow = 19.38 cfs @ 12.09 hrs, Volume= 1.189 af
Outflow = 19.38 cfs @ 12.09 hrs, Volume= 1.189 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Reach P-POI#1: P-POI#1



Summary for Pond SMP: U.I.S (CULTEC R-902HD)

Inflow Area = 1.023 ac, 81.43% Impervious, Inflow Depth = 8.28" for 100-Year event
Inflow = 8.70 cfs @ 12.09 hrs, Volume= 0.706 af
Outflow = 8.57 cfs @ 12.10 hrs, Volume= 0.706 af, Atten= 1%, Lag= 1.0 min
Discarded = 0.42 cfs @ 12.10 hrs, Volume= 0.403 af
Primary = 8.16 cfs @ 12.10 hrs, Volume= 0.302 af

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 543.33' @ 12.10 hrs Surf.Area= 1,241 sf Storage= 4,336 cf

Plug-Flow detention time= 67.1 min calculated for 0.704 af (100% of inflow)
Center-of-Mass det. time= 67.0 min (825.7 - 758.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	537.65'	1,843 cf	**8.50'W x 146.03'L x 5.75'H Field A** 7,137 cf Overall - 2,530 cf Embedded = 4,607 cf x 40.0% Voids
#2A	538.40'	2,530 cf	**Cultec R-902HD** x 39 Inside #1 Effective Size= 69.8"W x 48.0"H => 17.65 sf x 3.67'L = 64.7 cf Overall Size= 78.0"W x 48.0"H x 4.10'L with 0.44' Overlap Cap Storage= +2.8 cf x 2 x 1 rows = 5.5 cf
		4,373 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	537.65'	**5.000 in/hr Exfiltration over Surface area** Conductivity to Groundwater Elevation = 534.65' Phase-In= 0.01'
#2	Primary	542.00'	**1.9' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)

Discarded OutFlow Max=0.41 cfs @ 12.10 hrs HW=543.31' (Free Discharge)
↑—**1=Exfiltration** (Controls 0.41 cfs)

Primary OutFlow Max=8.07 cfs @ 12.10 hrs HW=543.32' (Free Discharge)
↑—**2=Sharp-Crested Rectangular Weir** (Weir Controls 8.07 cfs @ 3.75 fps)

Pond SMP: U.I.S (CULTEC R-902HD) - Chamber Wizard Field A

Chamber Model = Cultec R-902HD (Cultec Recharger® 902HD)
Effective Size= 69.8"W x 48.0"H => 17.65 sf x 3.67'L = 64.7 cf
Overall Size= 78.0"W x 48.0"H x 4.10'L with 0.44' Overlap
Cap Storage= +2.8 cf x 2 x 1 rows = 5.5 cf

39 Chambers/Row x 3.67' Long +0.52' Cap Length x 2 = 144.03' Row Length +12.0" End Stone x 2 = 146.03' Base Length
1 Rows x 78.0" Wide + 12.0" Side Stone x 2 = 8.50' Base Width
9.0" Base + 48.0" Chamber Height + 12.0" Cover = 5.75' Field Height

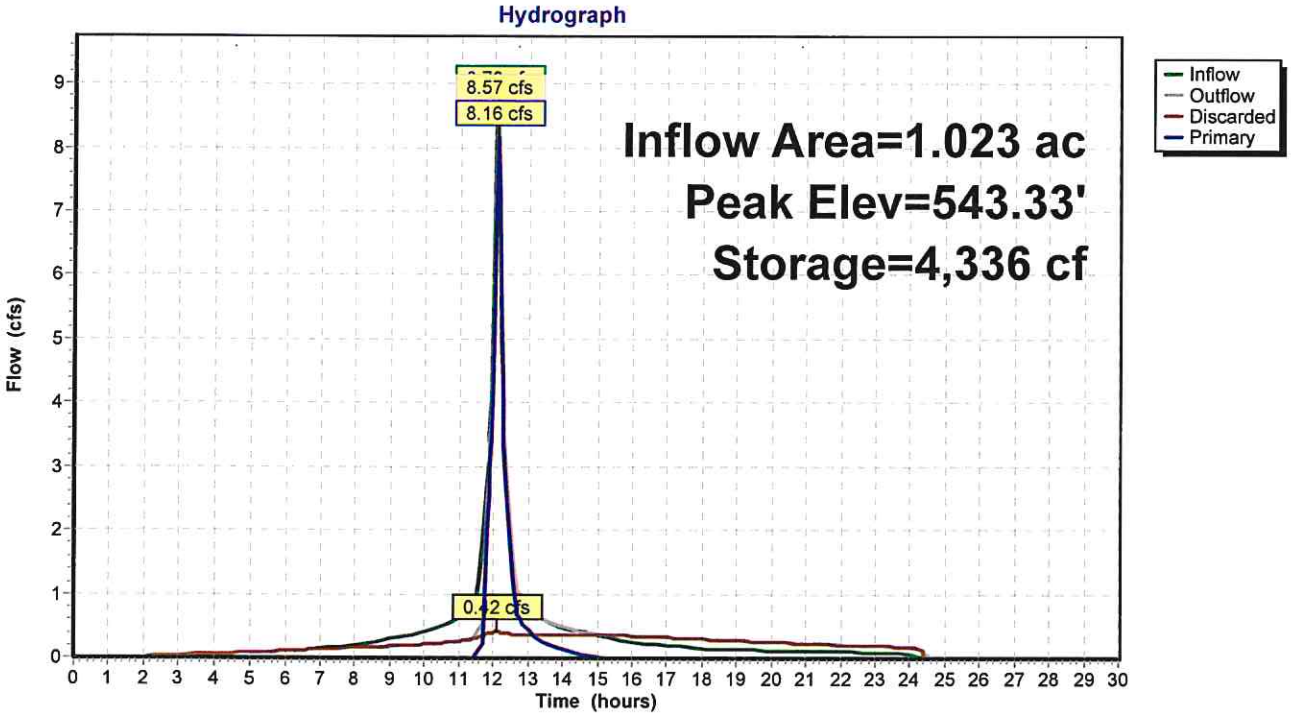
39 Chambers x 64.7 cf + 2.8 cf Cap Volume x 2 x 1 Rows = 2,530.2 cf Chamber Storage

7,137.4 cf Field - 2,530.2 cf Chambers = 4,607.2 cf Stone x 40.0% Voids = 1,842.9 cf Stone Storage

Chamber Storage + Stone Storage = 4,373.1 cf = 0.100 af
Overall Storage Efficiency = 61.3%
Overall System Size = 146.03' x 8.50' x 5.75'

39 Chambers
264.3 cy Field
170.6 cy Stone

Pond SMP: U.I.S (CULTEC R-902HD)



Stage-Discharge for Pond SMP: U.I.S (CULTEC R-902HD)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
537.65	0.00	0.00	0.00
537.75	0.15	0.15	0.00
537.85	0.15	0.15	0.00
537.95	0.16	0.16	0.00
538.05	0.16	0.16	0.00
538.15	0.17	0.17	0.00
538.25	0.17	0.17	0.00
538.35	0.18	0.18	0.00
538.45	0.18	0.18	0.00
538.55	0.19	0.19	0.00
538.65	0.19	0.19	0.00
538.75	0.20	0.20	0.00
538.85	0.20	0.20	0.00
538.95	0.21	0.21	0.00
539.05	0.21	0.21	0.00
539.15	0.22	0.22	0.00
539.25	0.22	0.22	0.00
539.35	0.23	0.23	0.00
539.45	0.23	0.23	0.00
539.55	0.23	0.23	0.00
539.65	0.24	0.24	0.00
539.75	0.24	0.24	0.00
539.85	0.25	0.25	0.00
539.95	0.25	0.25	0.00
540.05	0.26	0.26	0.00
540.15	0.26	0.26	0.00
540.25	0.27	0.27	0.00
540.35	0.27	0.27	0.00
540.45	0.28	0.28	0.00
540.55	0.28	0.28	0.00
540.65	0.29	0.29	0.00
540.75	0.29	0.29	0.00
540.85	0.30	0.30	0.00
540.95	0.30	0.30	0.00
541.05	0.31	0.31	0.00
541.15	0.31	0.31	0.00
541.25	0.32	0.32	0.00
541.35	0.32	0.32	0.00
541.45	0.33	0.33	0.00
541.55	0.33	0.33	0.00
541.65	0.34	0.34	0.00
541.75	0.34	0.34	0.00
541.85	0.34	0.34	0.00
541.95	0.35	0.35	0.00
542.05	0.42	0.35	0.07
542.15	0.71	0.36	0.36
542.25	1.12	0.36	0.76
542.35	1.61	0.37	1.24
542.45	2.16	0.37	1.79
542.55	2.77	0.38	2.39
542.65	3.42	0.38	3.03
542.75	4.10	0.39	3.72
542.85	4.83	0.39	4.43
542.95	5.58	0.40	5.18
543.05	6.35	0.40	5.95
543.15	7.14	0.41	6.73
543.25	7.95	0.41	7.54
543.35	**8.78**	**0.42**	**8.36**

Stage-Area-Storage for Pond SMP: U.I.S (CULTEC R-902HD)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
537.65	**1,241**	0
537.75	1,241	50
537.85	1,241	99
537.95	1,241	149
538.05	1,241	199
538.15	1,241	248
538.25	1,241	298
538.35	1,241	348
538.45	1,241	422
538.55	1,241	521
538.65	1,241	621
538.75	1,241	720
538.85	1,241	818
538.95	1,241	917
539.05	1,241	1,015
539.15	1,241	1,113
539.25	1,241	1,210
539.35	1,241	1,307
539.45	1,241	1,403
539.55	1,241	1,500
539.65	1,241	1,596
539.75	1,241	1,691
539.85	1,241	1,786
539.95	1,241	1,880
540.05	1,241	1,974
540.15	1,241	2,068
540.25	1,241	2,161
540.35	1,241	2,254
540.45	1,241	2,347
540.55	1,241	2,438
540.65	1,241	2,530
540.75	1,241	2,620
540.85	1,241	2,709
540.95	1,241	2,798
541.05	1,241	2,886
541.15	1,241	2,972
541.25	1,241	3,058
541.35	1,241	3,142
541.45	1,241	3,224
541.55	1,241	3,305
541.65	1,241	3,384
541.75	1,241	3,461
541.85	1,241	3,536
541.95	1,241	3,608
542.05	1,241	3,676
542.15	1,241	3,740
542.25	1,241	3,797
542.35	1,241	3,851
542.45	1,241	3,901
542.55	1,241	3,951
542.65	1,241	4,001
542.75	1,241	4,050
542.85	1,241	4,100
542.95	1,241	4,150
543.05	1,241	4,199
543.15	1,241	4,249
543.25	1,241	4,299
543.35	1,241	**4,348**

Section 3: NOI & MS4

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND 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

0644089821

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 use only)

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.

-IMPORTANT-

RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)
ILLINOIS PROPERTIES 26 LLC

Owner/Operator Contact Person Last Name (NOT CONSULTANT)
HILLEL

Owner/Operator Contact Person First Name
KAHAN

Owner/Operator Mailing Address
51 FOREST ROAD, UNIT 316-84

City
MONROE

State
NY

Zip
10950-[ ][ ][ ][ ]

Phone (Owner/Operator)
845-293-3570

Fax (Owner/Operator)
[ ][ ][ ]-[ ][ ][ ]-[ ][ ][ ][ ]

Email (Owner/Operator)
HKAHAN@PLATINUMDEVLP.COM

FED TAX ID
[ ][ ]-[ ][ ][ ][ ][ ][ ][ ] (not required for individuals)

Project Site Information

Project/Site Name
ILLINOIS PROPERTIES 26 LLC

Street Address (NOT P.O. BOX)
775 NORTH MAIN STREET

Side of Street
○ North ○ South ○ East ● West

City/Town/Village (THAT ISSUES BUILDING PERMIT)
VILLAGE OF NEW HEMPSTEAD

State NY | Zip 10950- | County ROCKLAND | DEC Region 3

Name of Nearest Cross Street
RENSSELAER DRIVE

Distance to Nearest Cross Street (Feet)
300

Project In Relation to Cross Street
○ North ● South ○ East ○ West

Tax Map Numbers
Section-Block-Parcel
42.18-2-24

Tax Map Numbers

1. 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)
-74035
Ex. -73.749

Y Coordinates (Northing)
41144
Ex. 42.652

2. What is the nature of this construction project?

○ **New Construction**

● **Redevelopment with increase in impervious area**

○ **Redevelopment with no increase in impervious area**

3. Select the predominant land use for both pre and post development conditions.
SELECT ONLY ONE CHOICE FOR EACH

Pre-Development Existing Land Use	Post-Development Future Land Use
○ FOREST	○ SINGLE FAMILY HOME
○ PASTURE/OPEN LAND	○ SINGLE FAMILY SUBDIVISION
○ CULTIVATED LAND	○ TOWN HOME RESIDENTIAL
○ SINGLE FAMILY HOME	○ MULTIFAMILY RESIDENTIAL
○ SINGLE FAMILY SUBDIVISION	○ INSTITUTIONAL/SCHOOL
○ TOWN HOME RESIDENTIAL	○ INDUSTRIAL
○ MULTIFAMILY RESIDENTIAL	● COMMERCIAL
○ INSTITUTIONAL/SCHOOL	○ MUNICIPAL
○ INDUSTRIAL	○ ROAD/HIGHWAY
● COMMERCIAL	○ RECREATIONAL/SPORTS FIELD
○ ROAD/HIGHWAY	○ BIKE PATH/TRAIL
○ RECREATIONAL/SPORTS FIELD	○ LINEAR UTILITY (water, sewer, gas, etc.)
○ BIKE PATH/TRAIL	○ PARKING LOT
○ LINEAR UTILITY	○ CLEARING/GRADING ONLY
○ PARKING LOT	○ DEMOLITION, NO REDEVELOPMENT
○ OTHER	○ WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
	○ OTHER

Number of Lots

***Note**: for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
3.1	1.1	0.8	1.2

5. Do you plan to disturb more than 5 acres of soil at any one time? ○ **Yes** ● **No**

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

A	B	C	D
%	%	100 %	%

7. Is this a phased project? ○ **Yes** ● **No**

8. Enter the planned start and end dates of the disturbance activities.

Start Date 08/05/2024 – **End Date** 08/08/2025

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

TRIBUTARY WATER COURSE TO PASCACK BROOK

9a. Type of waterbody identified in Question 9?

- ○ Wetland / State Jurisdiction On Site (Answer 9b)
- ○ Wetland / State Jurisdiction Off Site
- ○ Wetland / Federal Jurisdiction On Site (Answer 9b)
- ○ Wetland / Federal Jurisdiction Off Site
- ○ Stream / Creek On Site
- ● Stream / Creek Off Site
- ○ River On Site
- ○ River Off Site
- ○ Lake On Site
- ○ Lake Off Site
- ○ Other Type On Site
- ○ Other Type Off Site

9b. How was the wetland identified?

- ○ Regulatory Map
- ○ Delineated by Consultant
- ○ Delineated by Army Corps of Engineers
- ● Other (identify)

NONE

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-20-001? ○ **Yes** ● **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001? ○ **Yes** ● **No**

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ○ **Yes** ● **No**
If no, skip question 13.

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? ○ **Yes** ● **No**
If Yes, what is the acreage to be disturbed?

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ○ **Yes** ● **No**

15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ● Yes ○ No ○ Unknown

16. What is the name of the municipality/entity that owns the separate storm sewer system?

VILLAGE OF NEW HEMPSTEAD

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ Yes ● No ○ Unknown

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ○ Yes ● No

19. Is this property owned by a state authority, state agency, federal government or local government? ○ Yes ● No

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ○ Yes ● No

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ● Yes ○ No

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)? ● Yes ○ No
If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ● Yes ○ No

24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ● **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer
ATZL, NASHER & ZIGLER

Contact Name (Last, Space, First)
NASHER RYAN

Mailing Address
232 NORTH MAIN STREET

City
NEW CITY

State Zip
NY 10956-

Phone
845-634-4694

Fax
845-634-5543

Email
RNASHER@ANZNY.COM

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.

First Name
RYAN

MI
A

Last Name
NASHER

Signature

Date
04/16/2024

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

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

Temporary Structural

- ○ Check Dams
- ○ Construction Road Stabilization
- ○ Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ● Silt Fence
- ● Stabilized Construction Entrance
- ● Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ○ Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

- ○ Brush Matting
- ○ Dune Stabilization
- ○ Grassed Waterway
- ● Mulching
- ○ Protecting Vegetation
- ○ Recreation Area Improvement
- ● Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ● Topsoiling
- ○ Vegetating Waterways

Permanent Structural

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ● Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ● Rock Outlet Protection
- ○ Streambank Protection

Other

CONCRETE WASHOUT, STOCKPILE

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.

- ○ **Preservation of Undisturbed Areas**
- ○ **Preservation of Buffers**
- ○ **Reduction of Clearing and Grading**
- ● **Locating Development in Less Sensitive Areas**
- ○ **Roadway Reduction**
- ○ **Sidewalk Reduction**
- ○ **Driveway Reduction**
- ○ **Cul-de-sac Reduction**
- ○ **Building Footprint Reduction**
- ○ **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).

- ● 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).
- ○ 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

		0	.	0	8	3	**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 Area (acres)		Total Contributing Impervious Area (acres)
RR Techniques (Area Reduction)			
○ Conservation of Natural Areas (RR-1)		and/or	
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)		and/or	
○ Tree Planting/Tree Pit (RR-3)		and/or	
○ Disconnection of Rooftop Runoff (RR-4)		and/or	
RR Techniques (Volume Reduction)			
○ Vegetated Swale (RR-5)			
○ Rain Garden (RR-6)			
○ Stormwater Planter (RR-7)			
○ Rain Barrel/Cistern (RR-8)			
○ Porous Pavement (RR-9)			
○ Green Roof (RR-10)			
Standard SMPs with RRv Capacity			
○ Infiltration Trench (I-1)			
○ Infiltration Basin (I-2)			
○ Dry Well (I-3)			
● Underground Infiltration System (I-4)			0.833
○ Bioretention (F-5)			
○ Dry Swale (O-1)			
Standard SMPs			
○ Micropool Extended Detention (P-1)			
○ Wet Pond (P-2)			
○ Wet Extended Detention (P-3)			
○ Multiple Pond System (P-4)			
○ Pocket Pond (P-5)			
○ Surface Sand Filter (F-1)			
○ Underground Sand Filter (F-2)			
○ Perimeter Sand Filter (F-3)			
○ Organic Filter (F-4)			
○ Shallow Wetland (W-1)			
○ Extended Detention Wetland (W-2)			
○ Pond/Wetland System (W-3)			
○ Pocket Wetland (W-4)			
○ Wet Swale (O-2)			

Table 2 - Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)

Alternative SMP	Total Contributing Impervious Area (acres)
○ Hydrodynamic	
○ Wet Vault	
○ Media Filter	
○ Other _____	

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name

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

0.084 **acre-feet**

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

● **Yes** ○ **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 Minimum RRv Required (#32)?

○ **Yes** ○ **No**

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 SWPPP.
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 impervious 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

[ ][ ][ ].[ ][ ][ ] **acre-feet**

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)? ○ **Yes** ○ **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

[ ][ ]0.0[ ][ ] **acre-feet**

CPv Provided

[ ][ ]0.0[ ][ ] **acre-feet**

36a. The need to provide channel protection has been waived because:

○ Site discharges directly to tidal waters or a fifth order or larger stream.

● 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

[ ][ ]9.9[3][ ] CFS

Post-development

[ ][ ]8.8[0][ ] CFS

Total Extreme Flood Control Criteria (Qf)

Pre-Development

[ ]19.4[1][ ] CFS

Post-development

[ ]19.3[8][ ] CFS

37a. The need to meet the Qp and Qf criteria has been waived because:

- ○ Site discharges directly to tidal waters or a fifth order or larger stream.
- ○ Downstream analysis reveals that the Qp and Qf controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed? ● Yes ○ No

If Yes, Identify the entity responsible for the long term Operation and Maintenance

THE PROPERTY OWNER

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a) This space can also be used for other pertinent project information.

40. Identify other DEC permits, existing and new, that are required for this project/facility.

- ○ Air Pollution Control
- ○ Coastal Erosion
- ○ Hazardous Waste
- ○ Long Island Wells
- ○ Mined Land Reclamation
- ○ Solid Waste
- ○ Navigable Waters Protection / Article 15
- ○ Water Quality Certificate
- ○ Dam Safety
- ○ Water Supply
- ○ Freshwater Wetlands/Article 24
- ○ Tidal Wetlands
- ○ Wild, Scenic and Recreational Rivers
- ○ Stream Bed or Bank Protection / Article 15
- ○ Endangered or Threatened Species(Incidental Take Permit)
- ○ Individual SPDES
- ○ SPDES Multi-Sector GP [N][Y][R][ ][ ][ ][ ][ ][ ]
- ○ Other [ ]
- ● None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ○ **Yes** ● **No**
If Yes, Indicate Size of Impact. [ ][ ][ ][ ][ ][.][ ]

42. Is this project subject to the requirements of a regulated, traditional land use control MS4? ● **Yes** ○ **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? ● **Yes** ○ **No**

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. [N][Y][R][ ][ ][ ][ ][ ][ ]

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 hereby certify that this document and the corresponding documents were prepared under my direction or supervision. 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 acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. 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 agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name

HILLEL

MI

Print Last Name

KAHAN

Owner/Operator Signature

Date

/ /

NEW YORK STATE OF OPPORTUNITY | 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/Operator Information	
1. Owner/Operator Name:	ILLINOIS PROPERTIES 26 LLC
2. Contact Person:	HILLEL
3. Street Address:	51 FOREST ROAD, UNIT 316-84
4. City/State/Zip:	MONROE, N Y 10950
II. Project Site Information	
5. Project/Site Name:	ILLINOIS PROPERTIES 26 LLC
6. Street Address:	775 NORTH MAIN STREET
7. City/State/Zip:	NEW HEMPSTEAD
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information	
8. SWPPP Reviewed by:	GLENN MCCREEDY, P.E.
9. Title/Position:	VILLAGE ENGINEER
10. Date Final SWPPP Reviewed and Accepted:	
IV. Regulated MS4 Information	
11. Name of MS4:	VILLAGE OF NEW HEMPSTEAD
12. MS4 SPDES Permit Identification Number: NYR20A	324
13. Contact Person:	GLENN MCCREEDY, P.E.
14. Street Address:	19 SQUADRON BOULEVARD, SUITE #4
15. City/State/Zip:	NEW CITY, NEW YORK 10956
16. Telephone Number:	(845) 266-6441 x 101

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: GLENN MCCREEDY, P.E.

Title/Position: VILLAGE ENGINEER

Signature:

Date:

VI. Additional Information

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

Appendix - F

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND 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
ENGINEERS-SURVEYORS-PLANNERS

232 North Main Street, New City, NY 10956
Tel: (845) 634-4694 Fax: (845) 634-5543
Email: rnasher@anzny.com

April 12, 2024

Village of New Hempstead
108 Old Schoolhouse Rd
New City, NY 10956

Att.: Glenn McCreedy, P.E.
Village Engineer

Re: Illinois Properties 26 LLC (Job #5030)
Village of New Hempstead
Rockland County, New York

Dear Mr. McCreedy, P.E.,

A soil infiltration test was performed on March 4, 2024. The infiltration test location map is attached to this report for your reference (Page 6). The infiltration test failed due to the presence of groundwater.

The results are as follows.

Test Hole #1

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

Soil Log	Soil Type
0" to 24"	Top-soil
24" to 60"	Sandy Loam

Groundwater was found at 5.0 feet (60-inch) deep at EL. 532.

Test Hole #2

Infiltration test at a depth of 60-inches (5-feet):

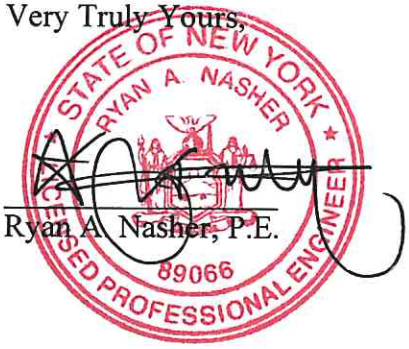
Soil Log	Soil Type
0" to 20"	Top-soil
20" to 60"	Sandy Loam

Groundwater was found at 5.0 feet (60-inch) deep at EL. 529.

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

If you have any questions, please feel free to contact me, thank you.

Very Truly Yours,



Ryan A. Nasher, P.E.

Figure 1: View of the soil profile (TH #1).

Figure 2: View of groundwater at 5.0 feet (60-inches) deep (TH #1).

Figure 3: View of the soil profile (TH #2).

Figure 4: View of groundwater at 5.0 feet (60-inches) deep (TH #2).

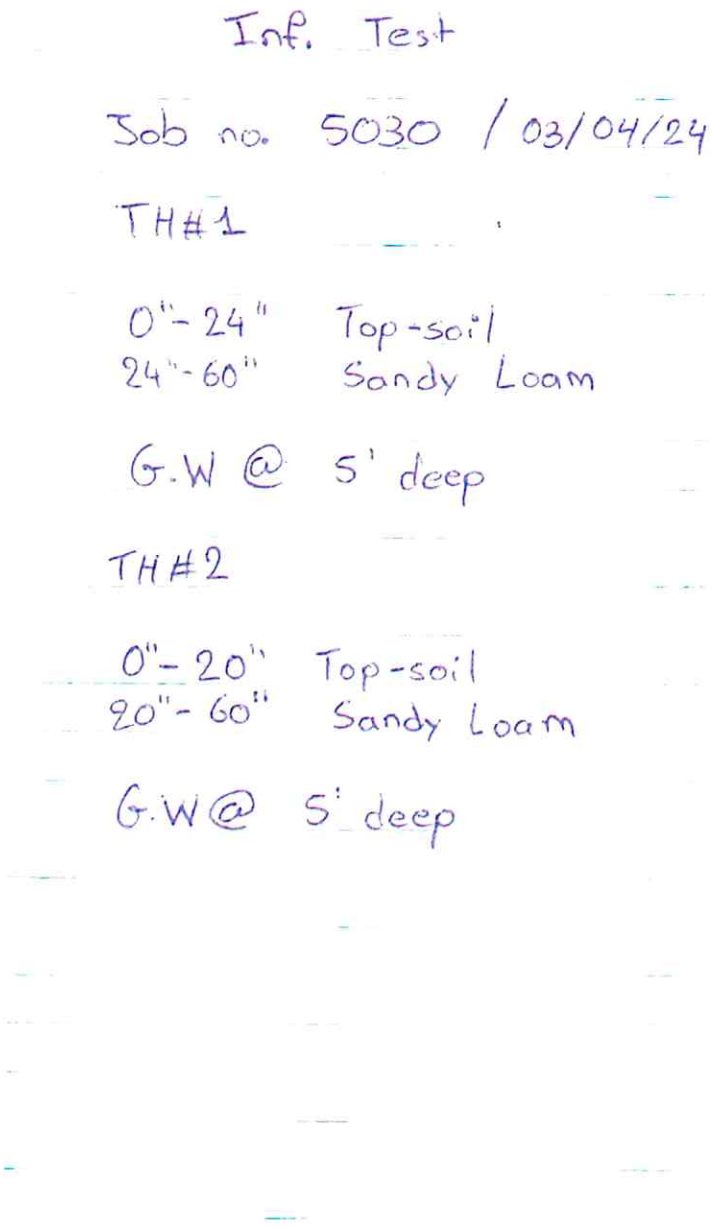
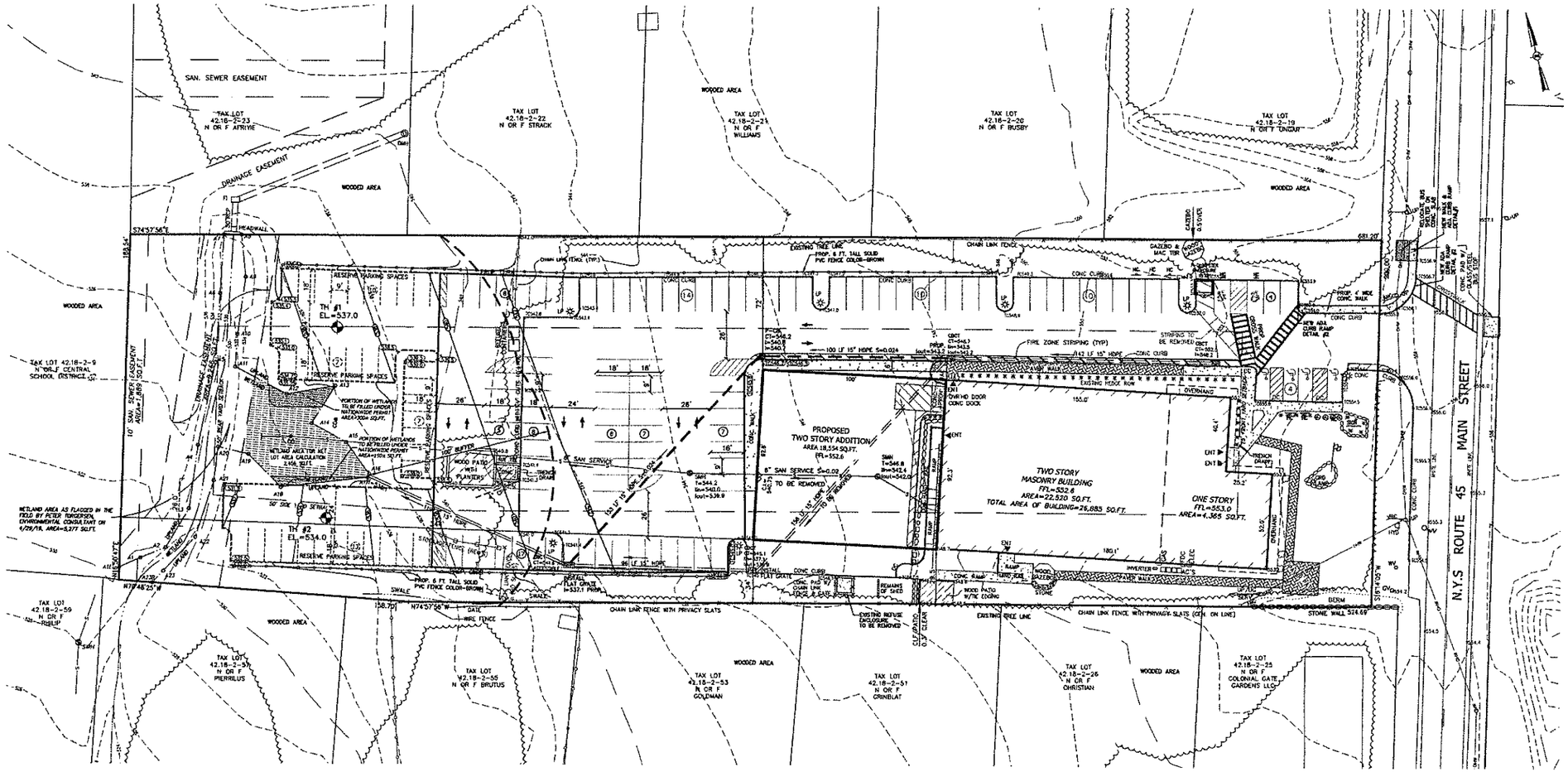
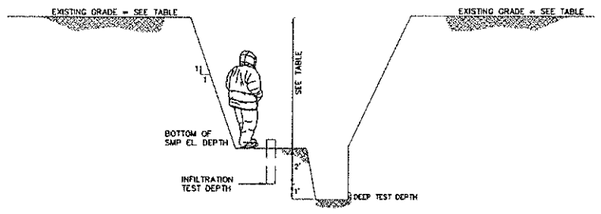


Figure 5: Field notes.





TYPICAL INFILTRATION TEST CROSS SECTION
N.T.S.

INFILTRATION AND DEEP TEST FOR STORMWATER MITIGATION PRACTICE

TEST HOLE ID	EXISTING GRADE EL.	PROPOSED GRADE EL.	INFILTRATION TEST DEPTH	DEEP TEST DEPTH
TH #1	EL.=537.0	EL.=537.0	EL.=530.0 (7' DEEP)	EL.=529.0 (8' DEEP)
TH #2	EL.=534.0	EL.=535.0	EL.=530.0 (5' DEEP)	EL.=529.0 (6' DEEP)

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SAFE AND PRUDENT EXCAVATION OPERATION IN A MANNER SO THAT THE WORKERS, PUBLIC AND AUTHORITIES WILL BE PROTECTED FROM UNREASONABLE HAZARD.
2. SLOPE SIDES OF EXCAVATIONS TO COMPLY WITH LOCAL CODES AND ORDINANCES HAVING JURISDICTION. SHORE AND BRACE WHERE SLOPING IS NOT POSSIBLE BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED. COMPLY WITH OSHA REQUIREMENTS.
3. FOR THE SAFETY OF PERSONNEL, SHEETING SHALL BE USED AS REQUIRED IN ANY TRENCH OR EXCAVATION MORE THAN FIVE (5) FEET ABOVE THE PERSONNEL'S FOOTING.

LEGEND

EXISTING 2' CONTOUR	PROPOSED 2' CONTOUR
EXISTING 10' CONTOUR	PROPOSED 10' CONTOUR
EXISTING WATER MAIN	PROPOSED WATER SERVICE
EXISTING FIRE HYDRANT	PROPOSED WATER VALVE
EXISTING GAS LINE	PROPOSED FIRE HYDRANT
EXISTING CATCH BASIN	PROPOSED GAS SERVICE
EXISTING DRAINAGE MANHOLE	PROPOSED GAS VALVE
EXISTING STORM DRAIN LINE	PROPOSED CATCH BASIN
EXISTING SEWER MANHOLE	PROPOSED STORM DRAIN LINE
EXISTING SEWER LINE	PROPOSED SEWER CLEANOUT
EXISTING SPOT ELEVATION	PROPOSED SEWER HOUSE CONNECTION
EXISTING SIGN	PROPOSED SPOT ELEVATION
EXISTING LIGHT POLE	PROPOSED WATER SERVICE
EXISTING UTILITY POLE	PROPOSED GAS SERVICE
EXISTING WATER VALVE	PROPOSED UNDERGROUND ELECTRIC LINE
EXISTING GAS VALVE	PROPOSED ROOF DRAIN
EXISTING CHAIN LINK FENCE	PROPOSED WATERSHED
EXISTING STONEWALL	TEST HOLE LOCATION

THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON, UNLESS ANYTHING ON THESE DRAWINGS AND/OR INC ACCOMPANYING SPECIFICATIONS, UNLESS IT IS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, FROM ALTERING IN ANY WAY ANY DOCUMENT BEARING THE SEAL, SIGNATURE AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS. NYS EDUCATION LAW SECTION 7209-2).

STATE OF NEW YORK RYAN A. NASHER LICENSED PROFESSIONAL ENGINEER

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL OR A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."

"ONLY COPIES FROM THE ORIGINAL DRAWING OF THIS SURVEY MARKED WITH THE LAND SURVEYOR'S INKED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES."

"ADDITIONS OR DELETIONS TO MAPS OR REPORTS ISSUED BY THE SURVEYOR NAMED HEREON, OR SIGNING BELOW, THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYING ADOPTED BY THE DELAWARE-HUDSON LAND SURVEYORS ASSOCIATION. THIS CERTIFICATE SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS OR SUBSEQUENT OWNERS."

STATE OF NEW YORK JOHN R. ATZL LICENSED LAND SURVEYOR

JOHN R. ATZL
N.Y.S. L.L.S. LIC. NO. 50228

REVISION	DATE	DESCRIPTION

ATZL, NASHER & ZIGLER P.C.
ENGINEERS-SURVEYORS-PLANNERS
232 North Main Street
New City, New York 10956
Tel: (845) 634-4694
Fax: (845) 634-5543
E-mail: info@anzny.com
Web: www.ANZNY.com

PROJECT:
ILLINOIS PROPERTIES 26 LLC

VILLAGE OF NEW HEMPSTEAD
ROCKLAND COUNTY, NEW YORK

TITLE:
INFILTRATION AND DEEP TEST LOCATION

DRAWN BY: IS	CHECKED BY: RN
DATE: DECEMBER 19, 2023	SCALE: 1 IN. = 30 FT.
PROJECT NO: 5030	DRAWING NO: 1

P:\DRAWINGS\5030\5030 SITE PLAN & TES HOLE 12-19-23.DWG

Drainage Maps

ILLINOIS PROPERTIES 26 LLC

VILLAGE OF HEMPSTEAD
ROCKLAND COUNTY
NEW YORK

DRAINAGE MAPS

BY

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ENGINEERS-SURVEYORS-PLANNERS
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FAX: (845) 634-5543
E-MAIL: rnasher@anzny.com