

## Meeting Notice

TO: Board Members

FROM: Andrew Santillo

DATE: January 10, 2023

### **RE:** Planning Board Meeting

The regular meeting of the Montgomery County Planning Board is scheduled for <u>Thursday</u>, <u>January 12</u>, <u>2023</u> at <u>6:30</u> p.m. at the Montgomery County Business Development Center, 9 Park Street, Fonda, NY.

Please call Karl at (518) 853-8334 between 8:30 a.m. and 4:00 p.m. if you have any questions.

cc: The Recorder Montgomery Co. Legislature DPW The Leader Herald Daily Gazette



### MONTGOMERY COUNTY PLANNING BOARD MEETING

### Thursday, January 12, 2023

### 6:30 PM – Montgomery County Business Development Center

- I. Pledge of Allegiance
- II. Role Call
- III. Adoption of Agenda
- IV. 2023 Organizational Items
- V. Approval of previous meeting minutes
- VI. Public comments on agenda items (3 minute limit per person)
- VII. Village of Canajoharie Special Use Permit (E-29 Labs)
- VIII. Village of Canajoharie Special Use Permit (Canajoharie Falls Cemetery Association)
- IX. Town of Florida Site Plan Review
- X. Any other business

Montgomery County Planning Board Meeting Minutes December 8<sup>th</sup>, 2022

### **MEMBERS PRESENT:**

Wayne DeMallie, Chairman Erin Covey, Member David Wiener, Member Betty Sanders, Alternate Irene Collins, Member

### **STAFF MEMBERS PRESENT:**

Alex Kuttesch, Senior Planner Karl Gustafson Jr., Grant Assistant Andrew Santillo, Assistant

### **ABSENT:**

Mark Hoffman, Vice Chairman Ron Jemmott, Member Doug Stahura, Member Angela Frederick, Member

### **OTHERS PRESENT:**

Scott Kitchner- Stewarts Engineer Adam Yagelski- Delaware Engineering Joe Danible- Delaware Engineering Stan Waddle- Village of Fonda

### I. Call to Order

The meeting was called to order by Chairman Wayne DeMallie at 6:31 p.m.

### II. Roll Call

The roll call of board members was done by Chairman DeMallie.

### III. Adoption of the Agenda

Irene Collins made a motion to adopt the agenda, Dave Wiener seconded. All members present were in favor.

### IV. Approval of Previous Meeting's Minutes

Dave Wiener made a motion to accept previous meeting minutes, Irene Collins seconded the motion. The previous minutes were approved.

### V. Public Comment

There was no public comments.

### VI. Village of Fonda- Site Plan Review

Alex Kuttesch stated to the board that this was a site plan review for the Stewarts expansion project. Scott Kitchner, the engineer on the project, explained that the new project will be taking down the existing condemned house next to the current location and building a 16'x66' addition. Stewarts will also be adding 5 new parking spots to the location. Dave Wiener asked if the ally comes with the purchase of the house. Scott stated that the ally does come with the purchase of the house.

Dave Wiener made a motion to approve the referral, Seconded by Erin Covey. All were in favor.

The referral was approved.

### VII. Village of Canajoharie- Special Use Permit

Alex Kuttesch explained that this referral is a special use permit regarding a tattoo parlor in a residential area. Alex stated that is it an allowed use within the village, the applicant would need a special use permit. It will be appointment only as well.

Erin Covey made a motion to approve the referral, seconded by Irene Collins. All were in favor.

The referral was approved.

### VIII. Town of Amsterdam- Zoning Update

Alex Kuttesch explained that it is a zoning amendment to the PUD project that the board had already approved in a previous meeting. Alex stated that the project would need a zoning update on a separate parcel to be zoned as a PUD. Alex also added that the project would need to come back to the board if they wanted to expand on this said parcel.

Adam Yagelski from Delaware Engineering explained the proposed action involves a rezoning in accordance with the Town's planned unit development regulations in order to provide for the construction of 168 apartments and related site improvements on the 16.5-acre project site. Specifically, the proposed action would amend a previously approved PUD to encompass the project site, which had previously received site plan approval for 60,000 SF of light industrial space and 74 apartments, and modify the plan of development as above-mentioned. As proposed, the action would ultimately provide for the development in the entire amended approximately 108-acre PUD area of four single family dwelling units, 82 condo/townhouse units, and 168 apartments. An additional 63.4 acre Future Development

area provides for a density of 4 units/acre and could potentially involve development of 254 residential units.

Erin Covey made a motion to approve the referral, Seconded by Irene Collins. All were in favor.

The referral was approved.

### IX. Other Business

There was no other business.

### X. Adjournment

Betty Sanders made a motion to adjourn the meeting at 7:02 p.m., seconded by Erin Covey. All were in favor.

Respectfully submitted,

Karl Gustafson Jr. Economic Development Grant Assistant

### **REFERRAL FORM** MONTGOMERY COUNTY PLANNING BOARD

Referral Number\_\_\_\_

assigned by the MCPB upon acceptance of referral for review

This Referral must be received SEVEN CALENDAR DAYS prior to the MCPB meeting date in order for it to be placed on the agenda.

TO: Montgomery County Planning Board, Old County Courthouse, PO Box 1500, Fonda, New York 12068 Phone: 518-853-8334 Fax: 518-853-8336	<b>FROM:</b> Municipal Board: V/Canajoharie Planning Board Referring Officer: Kylie Ferguson, Chairperson Mail original resolution to: 75 Erie Blvd., Canajoharie, NY 13317
1. Applicant: E-29, Inc. 2. Site Address: 91 East Ma	ain Street 3. Tax Map Number(s): SBL 63.14-1-9
<b>4. Acres:</b> 19	
5. Is the site currently serviced by public water?	Yes
6. On-site waste water treatment is currently prov	vided by: Public Sewer
7. Current Zoning: M-1 Manufacturing 8. Current	t Land Use: vacant manufacturing
9. Project Description: Cannabis Cultivation and former Beech-Nut property located at 91 East Main sf building into a processing/manufacturing buildin together with a 3-acre solar array as well as connec 10. MCPB Jurisdiction:	Manufacturing Facility proposed by E-29 Labs, Inc. on the n Street. The project includes repurposing of an existing 63,000 ng and construction of a new 50,000 sf cultivation building ctions to the Village's water and sewer systems
Text Adoption or Amendment Site is	located within 500' of: muni boundary and state rd/thruway
<ul> <li>a State or County thruway/highway/roadwa</li> <li>an existing or proposed State or County par</li> <li>an existing or proposed County-owned stree</li> <li>a State or County-owned parcel on which a</li> <li>a farm operation within an Agricultural Dis</li> <li><b>11. PUBLIC HEARING:</b> Date Jan 3, 2023: T</li> </ul>	ark/recreation area earn or drainage channel a public building or institution is situated strict (Incl. Ag data Statement) (does not apply to area variances) "ime: <u>5:30 PM</u> Location: <u>Fire Hall, 75 Erie Blvd</u> . Leferred action(s) lentify the referring municipal board if different from above.
12 Text Adoption or Amondment	Referring Roard.
Comprehensive Plan  Local Law  Zor	aing Ordinance
13. Zone Change	Referring Board:
Proposed Zone District:	Number of Acres:
Purpose of the Zone Change:	
14. X Site Plan Project Site Review	Referring Board:
Proposed Improvements: New Building, parking, road	s, loading, landscape, lighting, solar field
Proposed Use: Manufacturing	
Will the proposed project require a variance?	Yes X No Type Area Use
Specify:	
Is a State of County DOT work permit needed? Yes Specify: work permit for entrance	If Yes : X State or County No

15. 🛛 X Special Permit	X Special Permit Referring Board: Planning Board				
ection of local zoning code that requires a special permit for this use: Chapter 126 - solar					
Will the proposed project require a variance?  Yes X No <b>Referring</b> Type: Area U					
16. Variance Board:					
Area Use					
Section(s) of local zoning code to which the vari	ance is being sought:				
Describe how the proposed project varies from the	ne above code section:				
	SEQR Determination				
Action:	Finding:				
X Type I	Positive Declaration – Draft EIS				
Type II	Conditional Negative				
Unlisted Action	X Declaration Negative Declaration				
Exempt	No Finding (Type II Only)				
SEQR determination made by (Lead Agency)	V/Canajoharie Planning Board Date: 12/12/23				

## **REQUIRED MATERIAL**

### Send 3 copies of a "Full Statement of the Proposed Action" which includes:

All materials required by and submitted to the referring body as an application

- If submitting site plans, please submit only 1 large set of plans, and 12 11x17 packets.
- All material may be submitted digitally as well at <u>http://www.mcbdc.org/planning-services/montgomery-county-planning-board-referrals/</u>

This referral, as required by GML §239 1 and m, includes complete information, and supporting materials to assist the Montgomery County Planning Board (MCPB) in its review. Recommendations by MCPB shall be made to the Referring Body within thirty days of receipt of the Full Statement.

Mary Beth Bianconi, Partner, Delaware Engineering, DPC 518-452-1290 Name, Title & Phone Number of Person Completing this Form December 7, 2023 Transmittal Date This side to be completed by Montgomery County Planning.

### **REFERRAL FORM** MONTGOMERY COUNTY PLANNING BOARD

TO:

Receipt of 239-m referral is acknowledged on \_\_\_\_\_\_. Please be advised that the Montgomery County Planning Board has reviewed the proposal stated on the opposite side of this form on \_\_\_\_\_\_ and makes the following recommendation.

Approves
Approves (with Modification)
Disapproves:
No significant County-wide or inter-community input
Not subject to Planning Board review
Took no action

Section 239-m of the General Municipal Law requires that within thirty days after final action by the municipality is taken; a report of the final action shall be filed with the County Planning Board.

Date

Kenneth F. Rose, Director Montgomery County Dept. of Economic Development and Planning

### VILLAGE OF CANAJOHARIE APPLICATION FOR SPECIAL USE PERMIT

Date Filed:		
Name of Applicant:		
Address of Applicant:		
Business Phone:	Fax:	
Home Phone:	Mobile Phone:	
Email:		
Property Interest of Applica	t:	
Name of Owner (Owner, Co	ntract Purchaser, Owner Representative, if different from App	olicant):
Address of Owner:		
Business Phone:	Fax:	
Home Phone:	Mobile Phone:	
Email:		
Property Address & SBL#		
Legal Description of Proper	y:	
SWIS Code:	[Attach evidence of ownership.]	·

Present Use (*Existing structures and their location, existing topography, location and distance to the nearest state/county/town/maintained road*): \_\_\_\_\_

.

Requested Use/Construction (*Proposed structures, location, proposed changes, setbacks, location and distance to the nearest state/county/town/maintained road):* 

[Attach photographs of the projected site.]

Estimated Date to Begin New Use/Construction:

For Each of the Following Designers and Contractors (including, but not limited to *Architect/Engineer; General Contractor; Electrical Contractor; Plumbing Contractor; Mechanical Contractor)*, please list the following information:

- Name: \_\_\_\_\_
- Phone Number: \_\_\_\_\_\_

Please provide a Narrative Statement evaluating the economic effects on adjoining property the effect of such elements as noxious or offensive by reason of the production or emission of smoke, noise, odor, dust, glare, fumes and vibration on adjoining property; a discussion of the general compatibility with the adjacent and other properties in the district; the effect of traffic; and the relationship of the proposed use to the Comprehensive Plan, and how it fulfills the requirements of paragraph A two (A(2)) of Section 157-15 of the Zoning Code:

(Attach additional pages if needed.)

\_\_\_\_\_.

### For All That Apply, Describe How the Special Use:

(Attach additional pages, if needed.)

- 1. Will be harmonious with and in accordance with the general objectives, or within a specific objective of the Comprehensive Plan and/or this Zoning Code:
- 2. Will be designed, constructed, operated, and maintained so as to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity and that such use will not change the essential character of the same area:

3. Will not be hazardous or disturbing to existing or future neighborhood uses:

Will be served adequately by essential public facilities and services such as highways, streets, police and fire protection, drainage structure, refuse disposal, water, sewers and schools, or that the persons or agencies responsible for the established of the proposed use shall be able to provide adequately any such services:

- 4. Will not create excessive additional requirements at public cost for public facilities and services, and will not be detrimental to the economic welfare of the Village:
- 5. Will not involve uses, activities, processes, materials, equipment and/or conditions of operation that will be detrimental to any persons, property or the general welfare by reason of excessive production of traffic, smoke, fumes, glare or odors:
- 6. Will have vehicular approaches to the property, which shall be so designed as not to create an undue interference with traffic on surrounding public streets or roads:
- 7. Will not increase the potential for flood damage to adjacent property or require additional public expense for floor protection, rescue or relief:
- 8. Will not result in destruction, lose or damage of natural, scenic or historic features of major importance to the community:

I/We certify that all of the statements and documents submitted as part of this application are true to the best of my/our knowledge and belief.

I/We consent to the entry in or upon the premises described in this application by any authorized official of the Village of Canajoharie for the purpose of inspection.

I/We consent to pay the Village of Canajoharie all costs incurred for transcribing the public hearing on this application.

I/We understand that no final action shall be taken by the Village Board subsequent to the public hearing until transcribing and all other applicable costs or fees have been paid.

Date

Print Name

Signature of Applicant

Date

Print Name

Signature of Applicant

### Project Narrative Proposed E29 Labs Cannabis Cultivation and Manufacturing Facility 91 East Main Street Village of Canajoharie, Montgomery County, NY March 1, 2022

### **Introduction**

The Applicant, E29 Labs, Inc. is proposing to redevelop a  $\pm$ 19-acre parcel at 91 East Main Street (A.K.A. NYS Route 5S). The property is further identified as tax map parcel # 63.14-1-9 and is located in the Village of Canajoharie, Montgomery County, NY.

The existing  $\pm 19$ - acre parcel was previously developed with a former Beechnut facility, that is proposed to be remodeled. Access to the site is currently provided via a full access drive located along East Main Street that is proposed to be relocated to the east.

The Applicant is proposing to repurpose the existing  $\pm 63,000$  SF building into a processing/manufacturing building and construction of a new  $\pm 50,000$  SF cultivation building is proposed. The site lies within the "Manufacturing" zoning district where warehousing and distribution uses are allowed subject to Site Plan Review by the Planning Board.

The subject site is surrounded by other commercial uses and the proposed use is in harmony with the neighborhood. In addition to the cultivation and manufacturing facility, new parking, lighting, curbing, utilities, and other appurtenances are proposed as depicted on the accompanying Conceptual Layout Plan prepared by Bohler Engineering dated March 1, 2022.

### **Existing Conditions**

The existing  $\pm 19$ -acre parcel was once part of the former Beechnut facility but now is now typified by remnant building foundations and slabs, paved areas, access driveways and associated appurtenances. The portion of the former Beechnut facility located to the west of Canajoharie Creek is proposed to remain untouched.

The existing  $\pm 63,000$  is serviced by public utilities. It is anticipated that the existing utility services will be available for reuse for the proposed project. Stormwater from the site currently flows to a series of existing culverts and underground pipes located throughout the site and continues in a northerly direction.

A portion of stormwater from the site travels directly via overland sheet flow into the Canajoharie Creek, which runs through the westerly portion of the property. The creek eventually flows in a northerly direction and connects to the Mohawk River. Existing drainage patterns are expected to remain after the proposed development.

### **Proposed Project**

The redevelopment project proposes to remodel the existing  $\pm 63,000$  SF building into a processing and manufacturing building and to construct a new  $\pm 50,000$  SF cultivation building along with utilities, parking lot improvements, landscaping, lighting, 10 sprinter van parking spaces, 150 employee parking spaces, and other appurtenances.

A new 50,000 SF cultivation building will be situated approximately sixty feet north of the existing building on-site and will be connected to the existing building by a fully enclosed internal walkway. Additionally, a photo-voltaic electricity generation plant is being proposed within the northeast "finger" of the site.

Access to the proposed facility is provided from East Main Street via a full-access drive that also connects to the existing Incinerator Road to the north. Access to the facility will be limited to employees and deliveries only and will be managed via a security booth station prior to the proposed parking and delivery areas.

Two-way circulation through the subject site is proposed for optimum parking, circulation efficiencies, and truck delivery. New energy efficient onsite lighting, trash enclosures, sidewalks, and other appurtenances are also proposed onsite as depicted on the accompanying Conceptual Layout Plan prepared by Bohler Engineering dated March 1, 2022.

# **BOHLER**//

The E29 team understands the need for development of an aesthetically sensitive and pleasing facility. The goal is the design of a facility complimenting the aesthetics of community and site history. Renovations to the existing building will strive to align with its historic aesthetics.

This renovation will not be accomplished in accordance with the Department of Interior Standards for Historic Preservation, but will be accomplished to accentuate the language, materials, and colors originally utilized. The new facility will be designed in a manner that aesthetically compliments the historic structure. The goal is not to duplicate materials or aesthetic language utilized.

Rather, the goal is to develop an aesthetic that illustrates a separation of historic and new, while also creating an integration between the two structures. This approach will be holistic between building and site. Thereby, the team will ensure materials for use in security fencing and lighting are complimentary to the building and community.

### Sanitary Sewer

Sanitary sewer service is provided by a main that is located within East Main Street. Preliminary approximate wastewater generation will be between 20,000 and 55,000 gpd dependent on the applicant's choice of equipment and operational systems, which have yet to be determined. Sanitary service from the proposed building will be provided via a 6" PVC gravity service to connect to the existing main.

Detailed building plans and calculations will be supplied to the Village to support the design and sewer generation for the facility as the project moves forward.

### Water Flows and Pressure

Water service is provided by a main located within East Main Street. There are several existing water service stubs located on-site from the previous development that are anticipated to be available for reuse. Preliminary approximate water usage will be between 25,000 and 60,000 gpd, dependent on the applicant's choice of equipment and operational systems, which have yet to be determined.

Detailed building plans and calculations will be supplied to the Village to support the design and water demand for the facility as the project moves towards issuance of a Building Permit.

### **Stormwater**

The redevelopment project proposes to disturb more than an acre of land while maintaining existing flow patterns and reducing peak flows by substantially decreasing on-site impervious cover and by providing necessary on-site stormwater treatment areas in accordance with NYSDEC standards and requirements. A Stormwater Pollution Prevention Plan (SWPPP) for the site will be provided in subsequent submissions once complete design is underway to further analyze the existing and proposed stormwater conditions.

### **Traffic/Circulation**

Access to the proposed facility is proposed by a full access drive on East Main Street that connects to Incinerator Road to the north. A security booth is proposed prior to entering the proposed parking and delivery areas to ensure that the facility is only accessible to employees and deliveries.

It is not anticipated that traffic into and out of the proposed site would be significantly increased from when the former Beechnut facility on-site was in use. Two-way circulation through the subject site is proposed for optimum parking, circulation efficiencies, and truck delivery.

### Lighting

Energy-efficient LED dark sky area lights will be proposed as needed to meet all state and local lighting requirements.

### **Landscaping**

The proposed redevelopment results in a significant increase in greenspace over existing conditions. Additional plantings and trees will be provided within greenspace areas of the site per code requirements.







1"= 80'

ORG. DATE - 03/07/2022



USGS MAP

# **PROPOSED SITE PLAN** DOCUMENTS

– FOR ––––

# E29 LABS

# PROPOSED **CANNABIS CULTIVATION AND PROCESSING** FACILITY

**LOCATION OF SITE: 102 CHURCH STREET, VILLAGE OF CANAJOHARIE** MONTGOMERY COUNTY, NEW YORK STATE MAP #63, BLOCK #1, LOT #9



SCALE: 1" = 500' SOURCE: NYS GIS

# PREPARED BY **BOHLER**//

### REFERENCES

OUNDARY & TOPOGRAPHIC SURVEY RAVI ENGINEERING & LAND SURVEYING, P.C. 2110 S. CLINTON AVE, ROCHESTER, NY 14618 DATE: JUNE 2019 **REVISED: NONE LISTED** 

PHASE II ESA REPORT:

DRAWING SHEET INDEX

SHEET TITLE

COVER SHEET

UTILITY PLAN

SITE LAYOUT PLAN

LANDSCAPE PLAN

**VEHICLE TURNING PLAN** 

ALTA SURVEY (BY OTHERS)

LIGHTING PLAN

DETAIL SHEET

**GRADING & DRAINAGE PLAN** 

SOIL EROSION AND SEDIMENT CONTROL PLAN

SHEET

C-101

C-301

C-401

C-501

C-601

C-701

C-703

C-801

C-901

1 SHEET

NUMBER

CDM SMITH

14 WALL STREET, SUITE 1702, NEW YORK, NY DATE: 03/03/2017 REVISED: NONE LISTED

\* THE ABOVE REFERENCED DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THESE PLANS, HOWEVER, BOHLER ENGINEERING DOES NOT CERTIFY THE ACCURACY OF THE WORK REFERENCED OR DERIVED FROM THESE DOCUMENTS, BY OTHERS.

MT		SITE CIVIL AND CONSULTING ENGINEERING LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES	THE INFORMATION, DESIGN AND CONTENT OF THIS PLAN ARE FROPRIETARY AND SHALL NOT BE COPIED OR USED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM BOHLER, ONLY APPROVED, SIANEL AND SEALED PLANS SHALL BE UTILIZED FOR CONSTRUCTION FURPOSES © BOHLER
	F	REVISIONS	55 AV40
REV	DATE	COMMENT	CHECKED BY
1	03/30/2022	TOWN SUBMISSION	AKD SRW
2	05/03/2022	TOWN SUBMISSION	RMC SRW
3	06/08/2022	TOWN SUBMISSION	RMC
	00/40/0000		RMC
4	08/10/2022	TOWN SUBMISSION	0.00

5 09/30/2022 TOWN SUBMISSION

6 11/04/2022 TOWN SUBMISSION

Know what's <b>below.</b> <b>Call</b> before you dig.
ALWAYS CALL 811
It's fast. It's free. It's the law.

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENC EVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCT DOCUMENT UNLESS INDICATED OTHERWISE.

ROJECT No.:	B210226
RAWN BY:	AKE
HECKED BY:	SRW
DATE:	03/04/2022
AD I.D.:	B210226-SPPD-00
ROJECT:	

### **PROPOSED SITE PLAN DOCUMENTS**

E29 LABS

PROPOSED CANNABIS CULTIVATION AND PROCESSING FACILITY MAP: 63.14 SECTION: 1 LOT: 9 **102 CHURCH STREET CANAJOHARIE, NEW YORK** 



**17 COMPUTER DRIVE WEST ALBANY, NY 12205** Phone: (518) 438-9900 Fax: (518) 438-0900 www.BohlerEngineering.com



SHEET TITLE:



SHEET NUMBER: **C-101** 

**REVISION 6 - 11/04/2022** 



### SITE INFORMATION

- APPLICANT: E29 LABS, INC 91 EAST MAIN STREET
- STEAST MAIN STREET CANAJOHARIE, NY, 13317
- 2. OWNER: MONTGOMERY COUNTY 9 PARK STREET, PO BOX 1500 FONDA, NY, 12068
- PARCEL: 63.14-1-9 102 CHURCH STREET VILLAGE OF CANAJOHARIE

MONTGOMERY COUNTY, NY

NEW YORK STATE THRUWAY AUTHORITY PROP. 8FT COATED CHAIN LINK PERIMETER FENCE ATTACHED TO MALL DIVISIONAL VALVE 65A EXIST. LANDSCAPED. AREA TO REMAIN FEXIST. CONC. AREA TO REMAIN 6 of and thington with post HOLES / CATE ÆXIST. CONC. AREA TO REMAIN-PROP. SAWCUT EXIST. CONCRETE7 -PROP-SECURITY BOOTH PROP. LANDSCARED AREA--– AŘEA FOR – 🗸 🗕 ARE'A FOR – SNOW \* ↓ ŠNOŴ <u>\*</u> \* <u>REMOVAL</u> \* REMOVAL\* PROP.-VEHICLE ACCESS TO- 8'X20'-SECURE DUMPSTER INV: 296.5 PROP. 8FT COATED CHAIN LINK PERIMETER FENCE مسلسه PROP. PAVEMENT STRIPING \_\_\_\_\_ \_\_\_\_  $\bigcirc$ 1938555F N.Y.S. THRUWAY 20.0 4PROP. COOLING TOWER EXIT 29 \_\_\_\_ 24.0 PROP. CO2 TANK \_\_\_\_ 54• \_\_\_\_ LPROP. GAS FIRED CHILLER PROP. OVERHEAD DOOR ENTRANCE \_\_\_\_ PROP. PAVEMENT STRIPING (TYP 20.0' 24.0' 40.0' 24.0' 20.0' PROP. 20' WIDE CORRIDOR 28.00 24.0' 20.0' \_\_\_\_ BETWEEN BUILDINGS ----- L A - 1 4 -371.4 PROP. EMPLOYEE PARKING ▋▋▋▋▋▋ PROP. EV PARKING 0 → WITH CHARGING STATIONS PROP. CATCH BASIN (TYP)-PROP. CROSSWALK-380.0' PROP. SPRINTER VAN PARKING-₽ROP.-LANDSCAPED \* AREA \* PROP. FREE STANDTING SIGN E-29 SIGN **REFER TO DETAIL** ON SHEET C-901 PROP. ACCESS DRIVE TO CONFORM TO NYSDOT REGULATIONS. NYSDOT HIGHWAY PERMIT WILL BE REQUIRED PRIOR TO ANY

WORK.







1/IB210226/CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\B210226-SPPD-0G----->LAYOUT: C-501-L









### **LIGHTING NOTES**

- 1. THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S). ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- 2. THE LIGHT LOSS FACTORS USED IN THESE LIGHTING CALCULATIONS ARE 0.90 FOR ALL LED LUMINAIRES, 0.80 FOR ALL HIGH PRESSURE SODIUM LUMINAIRES OR 0.72 FOR ALL METAL HALIDE LUMINAIRES UNLESS OTHERWISE SPECIFIED. THESE FACTORS ARE INDICATIVE OF TYPICAL LIGHTING INDUSTRY MODELING STANDARDS.
- 3. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOTCANDLES.
- 4. THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT NOT BE LIMITED TO, FREQUENT VISUAL INSPECTIONS, CLEANING OF LENSES, AND RELAMPING (IF NECESSARY) AT LEAST ONCE EVERY SIX (6) MONTHS. FAILURE TO FOLLOW THE ABOVE STEPS COULD CAUSE THE LUMINAIRES, LAMPS AND LENSES TO FAIL PROPERLY TO FUNCTION.
- 5. WHERE APPLICABLE, THE EXISTING CONDITION LIGHT LEVELS ILLUSTRATED ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES, UNLESS ACTUAL FIELD MEASUREMENTS ARE TAKEN WITH A LIGHT METER AND ARE, CONSEQUENTLY, APPROXIMATIONS ONLY. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC, ACTUAL LIGHT LEVELS MAY DIFFER. EXISTING LIGHT LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED APPROXIMATE.
- 6. THIS LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. POWER SYSTEM, CONDUITS, WIRING, VOLTAGES AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT, MEP AND/OR LIGHTING CONTRACTOR, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. LIGHT POLE BASES ARE THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES AND ALL OTHER APPLICABLE RULES, REGULATIONS, LAWS AND STATUTES.
- 7. CONTRACTOR MUST BRING TO DESIGNER'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES.
- 8. IT IS THE LIGHTING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROJECT ARCHITECT OR OWNER REGARDING THE POWER SOURCE(S) FROM WITHIN THE BUILDING, AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT.
- 9. THE LIGHTING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE SITE PLAN, INCLUDING BUT NOT LIMITED TO, GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL GOVERNMENTAL RULES, LAWS, ORDINANCES, REGULATIONS AND THE LIKE.
- 10. THE CONTRACTOR MUST VERIFY THAT INSTALLATION OF LIGHTING FIXTURES COMPLIES WITH THE REQUIREMENTS FOR SEPARATION FROM OVERHEAD ELECTRICAL WIRES PER STATE REGULATIONS.
- 11. WHEN A BANK ATM IS INCLUDED IN THE PLAN, THE LIGHTING DESIGN REPRESENTS BOHLER'S UNDERSTANDING AND INTERPRETATION OF THE REGULATORY LIGHTING LEVELS INTENDED BY PUBLISHED STANDARDS.
- 12. UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL TIMES.

NUMERIC SUMMARY							
ABEL	CALCTYPE	UNITS	AVG	MAX	MIN	MAX/AVG	
REA SUMMARY	ILLUMINANCE	FC	3.45	27	0.0	7.8	

LUMINAIRE SCHEDULE							
SYMBOL	QTY	HEIGHT	ARRANGEMENT	LUMENS	LLF	DESCRIPTION	
⊕⊟ A	2	28'	SINGLE	16503	1.0	MANUFACTURED BY CREE LIGHTING XSPLG-D-HT-3ME-24L-40K7-UL-SV	
⊕ B	5	28'	SINGLE	23095	1.0	MANUFACTURED BY CREE LIGHTING XSPLG-D-HT-4ME-24L-40K7-UL-SV	
⊕⊟ C	17	28'	SINGLE	22800	1.0	MANUFACTURED BY CREE LIGHTING XSPLG-D-HT-5SH-24L-40K7-UX-XX	
D	28	25'	SINGLE	22745	1.0	MANUFACTURED BY CREE LIGHTING C-WP-D-TR-23L-50K_R2DG1903150	



NOTE: THIS DETAIL IS FOR BID AND BUDGETARY PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A FOUNDATION DESIGN PREPARED BY A QUALIFIED STRUCTURAL ENGINEER CONSIDERING LIGHTING MANUFACTURER REQUIREMENTS, LOCAL WIND LOADS AND SITE SPECIFIC SOIL PARAMETERS.

SOME SITE CONDITIONS AND/OR LOCATIONS MAY REQUIRE VIBRATION DAMPENING MEASURES AS DETERMINED BY A STRUCTURAL ENGINEER.
THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF THE INTENT TO MOUNT ANYTHING TO THE POLE, ASIDE FROM THE LIGHT FIXTURES, INCLUDING BUT NOT LIMITED TO CAMERAS, BANNERS, FLAGS, SIGNAGE, ETC. AS IT WILL IMPACT THE POLE AND FOUNDATION DESIGN.

> THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY



**C-703** 

**REVISION 6 - 11/04/2022** 



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WB-40 TRUCK TURN PLAN





EMERGENCY FIRE TRUCK TURN PLAN LENGTH: 45.29 FT WHEELBASE 21.25 FT







1 03/30/2022 TOWN SUBMISSION 2 05/03/2022 TOWN SUBMISSION 06/08/2022 TOWN SUBMISSION 4 08/10/2022 TOWN SUBMISSION 5 09/30/2022 TOWN SUBMISSION 6 11/04/2022 TOWN SUBMISSION Call before you dig ALWAYS CALL 811 It's fast. It's free. It's the law. **/INAR**` THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCT DOCUMENT UNLESS INDICATED OTHERWISE. B210226 AK SRW 03/04/202 B210226-SPPD-00 **PROPOSED SITE PLAN DOCUMENTS** E29 LABS CANNABIS CULTIVATION AND PROCESSING FACILITY MAP: 63.14 SECTION: 1 LOT: 9 **102 CHURCH STREET** CANAJOHARIE, NEW YORK **BOHLER 17 COMPUTER DRIVE WEST ALBANY, NY 12205** Phone: (518) 438-9900 Fax: (518) 438-0900 www.BohlerEngineering.com W.D. GOEBEL PROFESSIONAL ENGINEER MASSACHUSETTS LICENSE No. 42644-C RHODE ISLAND LICENSE No. 7268 CONNECTICUT LICENSE No. 21854 NEW HAMPSHIRE LICENSE No. 10280 MAINE LICENSE No. 9490 NEW YORK LICENSE No. 071284-1 FLORIDA LICENSE No. 66202



SHOWN ON A SURVEY TITLED "MILNOT/BEECH-NUT NUTRITION SURVEYS"

- 2. SURVEY TITLED "MILNOT/BEECH-NUT NUTRITION SURVEYS" LAST REVISION
- 2004, FILED IN THE MONTGOMERY COUNTY CLERK'S OFFICE AT LIBER 734
- 4. ROW FILE PROVIDED BY NYSTA, FILE NAME MP 188.81-200.24-ROW-2014.
- 5. DEED BETWEEN TD DEVELOPMENT, LLC, AND TD DEVELOPMENT, INC. DATED DECEMBER 29, 2014, AND FILED IN THE MONTGOMERY COUNTY CLERK'S

80 SCAL	0 80 E IN FEET
102 CHURCH STREET CANAJOHARIE, NY 13317	LIRO JOB NO.: 18-216-1806 SHEET OF
DRAWING TITLE: SITE SURVEY PLAN	FIGURE NO.



















### Full Environmental Assessment Form Part 1 - Project and Setting

### **Instructions for Completing Part 1**

**Part 1 is to be completed by the applicant or project sponsor.** Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

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

### A. Project and Applicant/Sponsor Information.

Name of Action or Project:				
E29 Labs Cannabis Cultivation and Manufacturing Facility				
Project Location (describe, and attach a general location map):				
91 East Main Street, Canajoharie NY				
Brief Description of Proposed Action (include purpose or need):				
E29 Labs, Inc is proposing to build an approximately 110,000 sf cannabis production and manufacturing facility that specializes in producing pre-packaged regulated cannabis products pursuant to the New York Cannabis Law. The proposed redevelopment of the existing 19 +/- acre parcel (parcel ID 63.14-1-9) will include a new 50,000 +/- building, updates to the existing 60,000 +/- 2 story masonry building along the property frontage on East Main Street, and associated parking, utilities, landscaping, lighting and stormwater management. A 3+/- acre solar array to help support the energy needs of the project is also included.				
Name of Applicant/Sponsor:	Telephone: 646-713-5052			
E29 Labs, Inc	E-Mail: sheldon@e29labs.com			
Address: 91 East Main Street				
City/PO: Canajoharie	State: NY	Zip Code: 13317		
Project Contact (if not same as sponsor; give name and title/role):	Telephone: 518-438-9900	•		
Bohler Engineering MA, LLC (contact: Steven Wilson) E-Mail: steven.wilson@bohlereng.com				
Address:				
		7' 0 1		
City/PO: Albany	State:	Zip Code:		
Property Owner (if not same as sponsor).	Telephone: 510 952 9224	12203		
Property Owner (In not same as sponsor): Telephone: 518-853-8334				
E-Mail: krose@co.montgomery.ny.us				
Address: 9 Park Street				
City/PO: Fonda	State: NY	Zip Code: <sub>12068</sub>		

### **B.** Government Approvals

assistance.)		
Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, ℤYes□No or Village Board of Trustees	Village of Canajoharie Village Board - Site Plan Review and Special Use Permit (Solar)	
b. City, Town or Village	Village of Canajoharie Planning Board - Site Plan Review and Special Use Permit (Solar)	
c. City, Town or Yes No Village Zoning Board of Appeals		
d. Other local agencies □Yes☑No		
e. County agencies	Montgomery County IDA; Montgomery County Planning Board; Montgomery County Legislature	
f. Regional agencies		
g. State agencies ZYes No	NYSDEC; NYSDOT; Empire State Development Cannabis Control Board; Dept of Ag and Markets;	
h. Federal agencies Ves No		
i. Coastal Resources. <i>i</i> . Is the project site within a Coastal Area.	, or the waterfront area of a Designated Inland Wa	tterway? □Yes ☑No
<i>ii.</i> Is the project site located in a communitie. Is the project site within a Coastal Erosid	ty with an approved Local Waterfront Revitalization on Hazard Area?	on Program? □ Yes☑No □ Yes☑No

B. Government Approvals, Funding, or Sponsorship.	("Funding" includes grants, loans, tax relief, and any other forms of financial
assistance.)	

ii.	Is the project site located in a community with an approved Local Waterfront Revitalization Program
iii.	Is the project site within a Coastal Erosion Hazard Area?

### C. Planning and Zoning

C.1. Planning and zoning actions.	
<ul> <li>Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed?</li> <li>If Yes, complete sections C, F and G.</li> <li>If No, proceed to question C.2 and complete all remaining sections and questions in Part 1</li> </ul>	
C.2. Adopted land use plans.	
a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located?	□Yes <b>☑</b> No
If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located?	□Yes□No
<ul> <li>b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?)</li> <li>If Yes, identify the plan(s): NYS Heritage Areas:Mohawk Valley Heritage Corridor</li> </ul>	<b>∠</b> Yes <b></b> No
<ul> <li>c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan?</li> <li>If Yes, identify the plan(s):</li> </ul>	∐Yes <b>∏</b> No

C.3. Zoning	
<ul> <li>a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance.</li> <li>If Yes, what is the zoning classification(s) including any applicable overlay district?</li> <li><u>M1 (Manufacturing) Zoning District</u></li> </ul>	<b>⊘</b> Yes⊡No
b. Is the use permitted or allowed by a special or conditional use permit?	☑ Yes □ No
<ul> <li>c. Is a zoning change requested as part of the proposed action?</li> <li>If Yes,</li> <li><i>i</i>. What is the proposed new zoning for the site?</li> </ul>	☐ Yes <b>Z</b> No
C.4. Existing community services.	
a. In what school district is the project site located? <u>Canajoharie Central School District</u>	
b. What police or other public protection forces serve the project site? <u>Canajoharie Police Department</u>	
c. Which fire protection and emergency medical services serve the project site? Canajoharie Fire Department	
d. What parks serve the project site? Riverfront Park, Boiling Pot Park, and Wintergreen Park	
D. Project Details	

D.1. Proposed and Potential Development		
a. What is the general nature of the proposed action (e.g., residential, industricomponents)? Industrial Agriculture	rial, commercial, recreational;	if mixed, include all
b. a. Total acreage of the site of the proposed action?	19 acres	
b. Total acreage to be physically disturbed?	13.9 acres	
c. Total acreage (project site and any contiguous properties) owned		
or controlled by the applicant or project sponsor?	19 acres	
<ul> <li>c. Is the proposed action an expansion of an existing project or use?</li> <li><i>i</i>. If Yes, what is the approximate percentage of the proposed expansion a square feet)? % Units:</li> </ul>	nd identify the units (e.g., acro	☐ Yes <b>☑</b> No es, miles, housing units,
<ul> <li>d. is the proposed action a subdivision, or does it include a subdivision?</li> <li>If Yes,</li> <li><i>i</i>. Purpose or type of subdivision? (e.g., residential, industrial, commercial</li> <li><i>ii</i>. Is a cluster/conservation layout proposed?</li> <li><i>iii</i>. Number of lots proposed?</li> </ul>	; if mixed, specify types)	☐ Y es ☑No
<i>iv.</i> Minimum and maximum proposed lot sizes? Minimum N	Maximum	
<ul> <li>e. Will the proposed action be constructed in multiple phases? <ol> <li>If No, anticipated period of construction:</li> <li>If Yes:</li> <li>Total number of phases anticipated</li> <li>Anticipated commencement date of phase 1 (including demolition)</li> <li>Anticipated completion date of final phase</li> <li>Generally describe connections or relationships among phases, includetermine timing or duration of future phases:</li> </ol> </li> </ul>	months ) month y month ye luding any contingencies wher	☐ Yes ☑ No rear ear re progress of one phase may

f. Does the project	et include new resid	lential uses?			☐ Yes <b>7</b> No
If Yes, show num	bers of units propo	osed.			
	One Family	<u>Two</u> Family	Three Family	<u>Multiple Family (four or more)</u>	
Initial Phase					
At completion					
of all phases					
g. Does the prope	osed action include	new non-residenti	al construction (inclu	iding expansions)?	<b>⊅</b> Yes No
If Yes,			,		
<i>i</i> . Total number	of structures	1_			
<i>ii</i> . Dimensions (	in feet) of largest p	roposed structure:	<u>35 height;</u>	<u>175 width; and</u> <u>285 length</u>	
	extent of building	space to be neated	or cooled:	50,000 square teet	
h. Does the propo	osed action include	construction or oth	her activities that will	l result in the impoundment of any	☐Yes <b>Z</b> No
liquids, such a If $V_{PS}$	s creation of a wate	r supply, reservoir	, pond, lake, waste is	agoon or other storage?	
<i>i</i> . Purpose of the	e impoundment:				
<i>ii.</i> If a water imp	oundment, the prin	cipal source of the	water:	Ground water Surface water stream	ns Other specify:
<i>iii</i> . If other than v	vater. identify the t	vne of impounded/	contained liquids an	d their source.	
	······································	· P · · · · ·	1	••••••••	
<i>iv.</i> Approximate	size of the propose	d impoundment.	Volume:	million gallons; surface area:	acres
v. Dimensions o	f the proposed dam	or impounding st	ructure:	_ height; length	
vi. Construction	method/materials	for the proposed as	am or impounding su	ructure (e.g., earth fill, rock, wood, cond	crete):
D.2. Project Op	erations				
a. Does the prope	osed action include	any excavation, m	ining, or dredging, d	uring construction, operations, or both?	<b>Yes ∕</b> No
(Not including	general site prepara	ation, grading or ir	stallation of utilities	or foundations where all excavated	
materials will r	remain onsite)				
If Yes:	0.4	1 1.1.9			
<i>i</i> . What is the pu	irpose of the excava	ation or dredging?	te te ) ie managad t	1 1 from the site?	
<i>ll</i> . How much ma	terial (including ro	ck, earth, seaiment	ts, etc.) is proposed i	o be removed from the site?	
• Over wh	(specify ions of time)	9			
<i>iii</i> . Describe natu	re and characteristic	cs of materials to l	be excavated or dred	ged. and plans to use, manage or dispose	e of them.
	······································	ing of a			
1 <i>v</i> . W III there be If yes descri	onsite dewatering	or processing of ea	cavated materials?		
11 yes, accert					
<i>v</i> . What is the to	otal area to be dredg	red or excavated?		acres	
vi. What is the m	aximum area to be	worked at any one	e time?	acres	
vii. What would b	be the maximum de	pth of excavation	or dredging?	feet	
viii. Will the exca	avation require blas	ting?			☐Yes ☐No
ix. Summarize sit	e reclamation goals	and plan:			
1 W1d the mea		1t in alterati			
b. Would the pro	posed action cause	or result in alterau	on of, increase of us	crease in size oi, or encroachment	Y es V INO
If Yes:	lig wenand, maters	ouy, shorenne, ee.	toli or acqueent area.		
<i>i</i> . Identify the w	vetland or waterbod	ly which would be	affected (by name, v	water index number, wetland map numb	er or geographic
description):			· -		

<i>ii.</i> Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square	of structures, or feet or acres:
<i>iii.</i> Will the proposed action cause or result in disturbance to bottom sediments?	□Yes <b>Z</b> No
<i>iv.</i> Will the proposed action cause or result in the destruction or removal of aquatic vegetation? If Yes:	☐ Yes <b>∕</b> No
<ul> <li>acres of aquatic vegetation proposed to be removed:</li> <li>expected acreage of aquatic vegetation remaining after project completion:</li> <li>purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):</li> </ul>	
<ul> <li>proposed method of plant removal:</li></ul>	
c. Will the proposed action use, or create a new demand for water? If Yes:	<b>√</b> Yes <b>N</b> o
<i>i.</i> Total anticipated water usage/demand per day: 25,000-60,000 gallons/day <i>ii.</i> Will the proposed action obtain water from an existing public water supply? If Yes:	<b>ℤ</b> Yes <b>□</b> No
<ul> <li>Name of district or service area: <u>Village of Canajoharie</u></li> <li>Does the existing public water supply have capacity to serve the proposal?</li> <li>Is the project site in the existing district?</li> <li>Is expansion of the district needed?</li> <li>Do existing lines serve the project site?</li> </ul>	✓ Yes No ✓ Yes No ✓ Yes No ✓ Yes No ✓ Yes No
<ul> <li><i>iii.</i> Will line extension within an existing district be necessary to supply the project?</li> <li>If Yes:</li> <li>Describe extensions or capacity expansions proposed to serve this project:</li></ul>	∐Yes <b>⊠</b> No
Source(s) of supply for the district:	
<i>iv.</i> Is a new water supply district or service area proposed to be formed to serve the project site? If, Yes:	☐ Yes <b>√</b> No
<ul> <li>Applicant/sponsor for new district:</li> <li>Date application submitted or anticipated:</li> <li>Proposed source(s) of supply for new district:</li> </ul>	
<i>v</i> . If a public water supply will not be used, describe plans to provide water supply for the project:	
<i>vi.</i> If water supply will be from wells (public or private), what is the maximum pumping capacity:N/A gall	ons/minute.
<ul><li>d. Will the proposed action generate liquid wastes?</li><li>If Yes:</li><li><i>i</i>. Total anticipated liquid waste generation per day: 20,000-55,000 gallons/day</li></ul>	<b>✓</b> Yes <b>□</b> No
<i>ii.</i> Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all comproximate volumes or proportions of each):	mponents and
1. 1,800/g/day in agricultural runoff wastewater (contains highly diluted nutrient solution). Plus 7,200/g/day in clean condensate from humidity produced in the cultivation rooms. Plus 12,000-46,000 gpd at peak heat times with cooling tower.	runoff water generated
<ul> <li>iii. Will the proposed action use any existing public wastewater treatment facilities?</li> <li>If Yes:</li> </ul>	<b>√</b> Yes No
<ul> <li>Name of wastewater treatment plant to be used: <u>Village of Callajonane wastewater freatment plant</u></li> <li>Name of district: <u>NA</u></li> </ul>	
<ul> <li>Does the existing wastewater treatment plant have capacity to serve the project?</li> <li>Is the project site in the existing district?</li> <li>Is expansion of the district needed?</li> </ul>	☑ Yes □No ☑ Yes □No □ Yes ☑No

• Do existing sewer lines serve the project site?	<b>⊘</b> Yes □	No
• Will a line extension within an existing district be necessary to serve the project?	$\square$ Yes $\square$	No
If Ves:		
<ul> <li>Describe extensions or canacity expansions proposed to serve this project;</li> </ul>		
• Describe extensions of capacity expansions proposed to serve this project.		
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site?	□Yes <b>Z</b>	No
If Yes:		
Applicant/sponsor for new district:		
Date application submitted or anticipated:		
What is the receiving water for the wastewater discharge?		
<i>v</i> . If public facilities will not be used, describe plans to provide wastewater treatment for the project, including spec receiving water (name and classification if surface discharge or describe subsurface disposal plans):	ifying prop	osed
vi Describe any plans or designs to conture, recycle or reuse liquid waste:		
<i>W.</i> Describe any plans of designs to capture, recycle of reuse inquid waste.	ill he concid	
After project completion, ongoing analysis of the facility will be conducted to improve efficiency. Capture/reuse of condensate runoif w	III de consid	erea.
e Will the proposed action disturb more than one acre and create stormwater runoff, either from new point		No
sources (i.e. ditches nines swales curbs gutters or other concentrated flows of stormwater) or non-point		110
source (i.e. sheet flow) during construction or post construction?		
If Yes:		
<i>i</i> . How much impervious surface will the project create in relation to total size of project parcel?		
Square feet or 4.6 acres (impervious surface)		
Square feet or 19 acres (parcel size)		
<i>ii.</i> Describe types of new point sources. Stormwater runoff from new parking areas and new building		
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<ul> <li><i>ii.</i> Describe types of new point sources. Stormwater runoff from new parking areas and new building</li> <li><i>iii.</i> Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent pr groundwater, on-site surface water or off-site surface waters)?</li> </ul>	roperties,	
<ul> <li>ii. Describe types of new point sources. Stormwater runoff from new parking areas and new building</li> <li>iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent pr groundwater, on-site surface water or off-site surface waters)?</li> <li>Stormwater would be directed to onsite stormwater facilities. There will be an overall reduction in impervious surface upon completion</li> </ul>	roperties, n of the proje	≥ct
<ul> <li><i>ii.</i> Describe types of new point sources. Stormwater runoff from new parking areas and new building</li> <li><i>iii.</i> Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent progroundwater, on-site surface water or off-site surface waters)?</li> <li>Stormwater would be directed to onsite stormwater facilities. There will be an overall reduction in impervious surface upon completion Today, over 80% of the site is covered in impervious surface. The proposed project reduces that footprint by 25%.</li> </ul>	roperties, n of the proje	≥ct
<ul> <li><i>ii.</i> Describe types of new point sources. Stormwater runoff from new parking areas and new building</li> <li><i>iii.</i> Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent progroundwater, on-site surface water or off-site surface waters)?</li> <li>Stormwater would be directed to onsite stormwater facilities. There will be an overall reduction in impervious surface upon completion Today, over 80% of the site is covered in impervious surface. The proposed project reduces that footprint by 25%.</li> <li>If to surface waters, identify receiving water bodies or wetlands:</li> </ul>	roperties, n of the proje	≥ct
<ul> <li><i>ii.</i> Describe types of new point sources. Stormwater runoff from new parking areas and new building</li> <li><i>iii.</i> Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent pr groundwater, on-site surface water or off-site surface waters)?</li> <li>Stormwater would be directed to onsite stormwater facilities. There will be an overall reduction in impervious surface upon completion Today, over 80% of the site is covered in impervious surface. The proposed project reduces that footprint by 25%.</li> <li>If to surface waters, identify receiving water bodies or wetlands:</li> </ul>	roperties, n of the proje	ect.
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<ul> <li><i>ii.</i> Describe types of new point sources.Stormwater runoff from new parking areas and new building</li> <li><i>iii.</i> Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent pr groundwater, on-site surface water or off-site surface waters)?</li> <li>Stormwater would be directed to onsite stormwater facilities. There will be an overall reduction in impervious surface upon completion Today, over 80% of the site is covered in impervious surface. The proposed project reduces that footprint by 25%.</li> <li>If to surface waters, identify receiving water bodies or wetlands:</li> <li>Will stormwater runoff flow to adjacent properties?</li> <li><i>iv.</i> Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?</li> <li>f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations?</li> <li>If Yes, identify: <ul> <li><i>i.</i> Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)</li> <li><i>iii.</i> Stationary sources during operations (e.g., process emissions, large boilers, electric generation)</li> <li>(1) Diesel generator; (2) standard building HVAC emissions</li> <li>g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit?</li> <li>If Yes: <ul> <li><i>i.</i> Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year)</li> <li><i>ii.</i> In addition to emissions as calculated in the application, the project will generate:</li> <li>Tons/year (short tons) of Nitrous Oxide (N<sub>2</sub>O)</li> <li>Tons/year (short tons) of Nitrous Oxide (N<sub>2</sub>O)</li> </ul> </li> </ul></li></ul>	roperties, n of the proje Yes Yes Yes Yes Yes	ect.
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<ul> <li><i>ii.</i> Describe types of new point sources. Stormwater runoft from new parking areas and new building</li> <li><i>iii.</i> Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent pr groundwater, on-site surface water or off-site surface waters)?</li> <li>Stormwater would be directed to onsite stormwater facilities. There will be an overall reduction in impervious surface upon completion Today, our 80% of the site is covered in impervious surface. The proposed project reduces that footprint by 25%.</li> <li>If to surface waters, identify receiving water bodies or wetlands:</li> <li>Will stormwater runoff flow to adjacent properties?</li> <li><i>iv.</i> Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?</li> <li>f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations?</li> <li>If Yes, identify: <ul> <li><i>i.</i> Mobile sources during project operations (e.g., power generation, structural heating, batch plant, crushers)</li> <li><i>iii.</i> Stationary sources during operations (e.g., process emissions, large boilers, electric generation)</li> <li>(1) Diesel generator; (2) standard building HVAC emissions</li> <li>g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit?</li> <li>If Yes:</li> <li><i>i.</i> In addition to emissions as calculated in the application, the project will generate:</li> <li>Tons/year (short tons) of Carbon Dioxide (CO<sub>2</sub>)</li> <li>Tons/year (short tons) of Perfluorocarbons (PFCs)</li> <li>Tons/year (short tons) of Sulfur Hexafluoride (SF<sub>6</sub>)</li> <li>Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)</li> </ul> </li> </ul>	roperties, n of the proje	ect.

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants,	☐Yes <b>√</b> No
If Ves	
<i>i</i> Estimate methane generation in tons/year (metric):	
<i>ii.</i> Describe any methane capture, control or elimination measures included in project design (e.g., combustion to g	enerate heat or
electricity, flaring):	
i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as	☐Yes <b>√</b> No
quarry or landfill operations?	
If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):	
j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial	<b>Y</b> es No
new demand for transportation facilities or services?	
If Yes:	
<i>i</i> . When is the peak traffic expected (Check all that apply): 🛛 Morning 🖓 Evening 🗍 Weekend	
Randomly between hours of to	`
<i>ii.</i> For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump truck	(s):
10 delivery vans exiting in the morning, returning in the evening.	
iii. Parking spaces: Existing0 Proposed 150 Net increase/decrease	+150
<i>iv.</i> Does the proposed action include any shared use parking?	Yes No
v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing	access, describe:
vi. Are public/private transportation service(s) or facilities available within <sup>1</sup> / <sub>2</sub> mile of the proposed site?	<b>∑</b> Yes <b>□</b> No
<i>vii</i> Will the proposed action include access to public transportation or accommodations for use of hybrid, electric	<b>∑</b> Yes No
or other alternative fueled vehicles?	
viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing	<b>√</b> Yes No
pedestrian or bicycle routes?	
k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand	<b>√</b> Yes No
for energy?	
If Yes:	
<i>i</i> . Estimate annual electricity demand during operation of the proposed action:	
$\frac{18,000,000 \text{ kWh}}{1.000,000 \text{ kWh}}$	1
<i>ii.</i> Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/i other):	local utility, or
(1) National Grid: (2) on-site photovoltaic facility	
<i>iii.</i> Will the proposed action require a new, or an upgrade, to an existing substation?	<b>Y</b> es <b>/</b> No
1. Hours of operation. Answer all items which apply.	
<i>i</i> . During Construction: <i>ii</i> . During Operations:	
Monday - Friday:5am-6pm      Monday - Friday:24 hours/day	
Saturday: 5am-6pm     Saturday: 24 hours/day	-
Sunday: 5am-6pm Sunday: 24 hours/day	
Holidays: N/A      Holidays: 24 hours/day	

m. Will the pr	pposed action produce noise that will exceed existing ambient noise levels during construction,	☐ Yes <b>Z</b> No
If ves:		
<i>i</i> Provide det	ails including sources, time of day and duration.	
<i>i</i> . 110 flue det	ins norwang sources, this of any and datation	
<i>ii</i> . Will the pr	popsed action remove existing natural barriers that could act as a noise barrier or screen?	Yes No
Describe:	· -	
n. Will the pro	posed action have outdoor lighting?	<b>✓</b> Yes <b>□</b> No
If yes:		
<i>i</i> . Describe so	urce(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	
The facility will be	equipped with standard exterior lighting that is compliant with all local regulations.	
<i>ii</i> . Will propo	sed action remove existing natural barriers that could act as a light barrier or screen?	$\Box$ Yes $\blacksquare$ No
Describe:		
o Does the pr	prosed action have the notential to produce odors for more than one hour per day?	<b>ℤ</b> Yes <b>□</b> No
If Yes des	cribe possible sources potential frequency and duration of odor emissions and proximity to nearest	
occupied s	tructures:	
Regulated canna	pis cultivation produces an identifiable odor. The E29 Labs proposed project however, is a fully self contained structu	ure that controls the
flow of air through	out the facility. All air that is discharged from the facility will have been filtered to mitigate against odor. Closest occu	pied residential
structure is appro	ximately 200' south of the site and is located on Front Street.	
p. Will the pro	posed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons)	🗌 Yes 🛛 No
or chemical	products 185 gallons in above ground storage or any amount in underground storage?	
If Yes:		
<i>i</i> . Product(s)	o be stored	
<i>ii</i> . Volume(s)	per unit time (e.g., month, year)	
<i>iii</i> . Generally,	lescribe the proposed storage facilities:	
q. Will the pro	posed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides,	🗹 Yes 🗖 No
insecticides	) during construction or operation?	
If Yes:		
<i>i</i> . Describe	proposed treatment(s):	
As in <u>any agric</u>	Itural use, the use of certain pesticides to ensure healthy crop development is appropriate. The NYS C	annabis Control
Board will issue	regulations governing the use of pesticides and pesticide applications. E29 Labs will comply with all law	ws and regulations
related to pesti		
$\frac{1}{11}$ Will the a	remarked entire was Interneted Dest Management Dreations?	
<i>II.</i> Will the provide	roposed action use integrated Pest Management Practices?	
r. will the pro	sosed action (commercial or industrial projects only) involve or require the management or disposal	
If Ves:	e (excluding nazardous materials)?	
<i>i</i> Describe a	ny solid waste(s) to be generated during construction or operation of the facility:	
	relation waste(s) to be generated during construction of operation of the facility.	
Cons	ation is tons per week (unit of time)	
<i>ii</i> Describe a	nuon . <u>veek</u> (unit of time)	
	iny proposals for on-site minimization, recycling of reuse of materials to avoid disposal as solid waste.	oritoria Concrata
• Colls	container for recyclable materials. Instructions to all builders that waste minimization shall be a priority on s	site
	Tion: Efficient ordering and processing of operational materials. "Minimizing Westel" to be a materials calentian	vitaria Instructions to
• Oper	all staff and management that waste minimization shall be a priority in the ongoing operation of the facilitie	s Recycling program
iii Proposed o	isnosal methods/facilities for solid waste generated on-site.	
	ruction: Poll-off dumpetere	
- Colls		
• Oper	ation: Contract commercial garbage and recycling haulers	
		· · · · · · · · · · · · · · · · · · ·

	<u> </u>		
s. Does the proposed action include construction or modi If Yes:	fication of a solid waste man	agement facility?	Yes 🖌 No
<i>i</i> . Type of management or handling of waste proposed	for the site (e.g., recycling or	transfer station, composting	g, landfill, or
<i>ii.</i> Anticipated rate of disposal/processing:			
Tons/month, if transfer or other non-o	combustion/thermal treatmen	t, or	
• Tons/hour, if combustion or thermal t	treatment		
<i>III.</i> If fanding, anticipated site fife:	years	1	
t. Will the proposed action at the site involve the commen waste?	rcial generation, treatment, st	orage, or disposal of hazard	ous V Y es No
If Yes:			
<i>i</i> . Name(s) of all hazardous wastes or constituents to be Ethanol & Butane (in minimal amounts)	generated, handled or manag	ged at facility:	
<i>ii.</i> Generally describe processes or activities involving h	nazardous wastes or constitue	nts:	
Plant essential oil extraction using an ethanol-based extraction	ion process.		
<i>iii.</i> Specify amount to be handled or generated <1 to	ons/month		
<i>iv.</i> Describe any proposals for on-site minimization, rec	ycling or reuse of hazardous	constituents:	
Facility will recapture 98% of ethanol used in extraction processes. H handled pursuant to strict internal written policies and procedures. En	az. materials will be handled in compli nployees handling haz. materials will u	ance with applicable laws and regula indergo specific training. Health and	ations. Materials will be safety notices will be posted
v. Will any hazardous wastes be disposed at an existing	g offsite hazardous waste faci	lity?	<b>V</b> Yes No
If Yes: provide name and location of facility:			
If No: describe proposed management of any hazardous	wastes which will not be sent	to a hazardous waste facilit	y:
Any hazardous waste will be stored and maintained in accordance	e with all federal, state, and local	standards, including regulations	and guidance
promulgated by the New York Office of Canhabis Management.			
E. Site and Setting of Proposed Action			
<b>F</b> 1 L and uses on and surrounding the project site			
2. Evisting land uses			
<i>i</i> . Check all uses that occur on, adjoining and near the	project site.		
Urban Industrial Z Commercial Z Resid	lential (suburban) 🔲 Rura	(non-farm)	
<i>ii.</i> If mix of uses, generally describe:	(specify):		
b. Land uses and covertypes on the project site.		1	
Land use or	Current	Acreage After	Change $(A \operatorname{cres} + /)$
Roads, buildings, and other paved or impervious	Acteage		(Actes 17-)
surfaces	13.8	10.3	-3.5
• Forested	0	0	0
<ul> <li>Meadows, grasslands or brushlands (non- agricultural, including abandoned agricultural)</li> </ul>	5.2	8.7	+3.5
Agricultural	0	0	0
(includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes ponds streams rivers etc.)	0	0	0
Wetlands (freshwater or tidal)	0	0	0
Non-vegetated (bare rock, earth or fill)	0	0	0
Other	~		~
Describe:			

c. Is the project site presently used by members of the community for public recreation? <i>i</i> . If Yes: explain:	□Yes☑No
<ul> <li>d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site?</li> <li>If Yes, <ul> <li>i. Identify Facilities:</li> <li>St. Mary's Healthcare Canajoharie Health; Bassett Health Center; Arkel Hall</li> </ul> </li> </ul>	<b>⊘</b> Yes <b></b> No
e. Does the project site contain an existing dam? If Yes: <i>i</i> . Dimensions of the dam and impoundment:	∐Yes <b>∑</b> No
Dam height:feet     Dam length:feet     Surface area:acres     Volume impounded:gallons OR acre-feet      ii. Dam's existing hazard classification:	
<i>iii.</i> Provide date and summarize results of last inspection:	
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facil	☐Yes <b>∕</b> No lity?
<ul> <li>If Yes:</li> <li><i>i</i>. Has the facility been formally closed?</li> <li>If yes, cite sources/documentation:</li> </ul>	□Yes□ No
<i>ii.</i> Describe the location of the project site relative to the boundaries of the solid waste management facility:	
<i>iii.</i> Describe any development constraints due to the prior solid waste activities:	
<ul> <li>g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste?</li> <li>If Yes: <ul> <li><i>i</i>. Describe waste(s) handled and waste management activities, including approximate time when activities occurred</li> </ul> </li> </ul>	∐Yes <b>∑</b> No ed:
h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site?	✔Yes No
<ul> <li>If Yes: While there are no reported spills on the site, it had been subject to remedial action. See below.</li> <li>i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply:</li> </ul>	∐Yes <b>∠</b> No
Yes - Spills Incidents database       Provide DEC ID number(s):         Yes - Environmental Site Remediation database       Provide DEC ID number(s):         Neither database       Provide DEC ID number(s):	
<i>ii</i> . If site has been subject of RCRA corrective activities, describe control measures:	mediated.
<i>iii.</i> Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? If yes, provide DEC ID number(s):	☐ Yes <b>∕</b> No
<i>iv.</i> If yes to (i), (ii) or (iii) above, describe current status of site(s):	
v. Is the project site subject to an institutional control limiting property uses?	☐ Yes Z No
--	-----------------------
<ul> <li>If yes, DEC site ID number:</li> <li>Describe the type of institutional control (e.g., deed restriction or easement):</li> </ul>	
Describe any use limitations:	
<ul> <li>Describe any engineering controls:</li> <li>Will the project affect the institutional or engineering controls in place?</li> </ul>	☐ Yes ☐ No
• Explain:	
E.2. Natural Resources On or Near Project Site	
a. What is the average depth to bedrock on the project site? >6.5	feet
b. Are there bedrock outcroppings on the project site?	<b>V</b> Yes No
If Yes, what proportion of the site is comprised of bedrock outcroppings?	<u>0.7</u> %
c. Predominant soil type(s) present on project site: CFL	94.5 %
FL RI F	0.9 %
d What is the average donth to the water table on the project site? Average, 2.4 fee	/0
d. what is the average depth to the water table on the project site? Average	
e. Drainage status of project site soils: Well Drained: 99 % of site	
$\square Poorly Drained \qquad \ \% of site$	
f. Approximate proportion of proposed action site with slopes: 🔽 0-10%:	<u>9.3</u> % of site
□ 10-15%: □ 15% or greater:	-% of site
g. Are there any unique geologic features on the project site?	
If Yes, describe:	
<ul><li>h. Surface water features.</li><li><i>i</i>. Does any portion of the project site contain wetlands or other waterbodies (including stream)</li></ul>	ms, rivers,
ponds or lakes)? <i>ii</i> . Do any wetlands or other waterbodies adjoin the project site?	<b>↓</b> Yes No
If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i.	
<i>iii.</i> Are any of the wetlands or waterbodies within or adjoining the project site regulated by a state or local agency?	ny federal,  Yes∐No
<i>iv.</i> For each identified regulated wetland and waterbody on the project site, provide the follo	wing information:
Streams: Name 070-201	
Wetlands: Name Federal Waters, Federal Waters, Federal Waters, A	pproximate Size
• Wetland No. (if regulated by DEC)	lity-impaired Ves ZNo
waterbodies?	
If yes, name of impaired water body/bodies and basis for listing as impaired:	
i. Is the project site in a designated Floodway?	∐Yes <b>∏</b> No
j. Is the project site in the 100-year Floodplain?	 ✓Yes ∏No
k. Is the project site in the 500-year Floodplain?	Vyes No
1 Is the project site located over or immediately adjoining a primary principal or sole source	e aquifer?
If Yes:	
<i>i</i> . Name of aquifer: Principal Aquifer	

m. Identify the predominant wildlife species that occupy or use the proj Small rodents	lect site:	
n. Does the project site contain a designated significant natural commun If Yes:	ity?	Yes <b>V</b> No
<i>i</i> . Describe the habitat/community (composition, function, and basis for	or designation):	
<i>ii</i> Source(s) of description or evaluation:		
<i>iii.</i> Extent of community/habitat:		
• Currently:	acres	
• Following completion of project as proposed:	acres	
• Gain or loss (indicate + or -):	acres	
<ul> <li>o. Does project site contain any species of plant or animal that is listed be endangered or threatened, or does it contain any areas identified as ha If Yes:</li> <li><i>i.</i> Species and listing (endangered or threatened):</li></ul>	by the federal government or NYS as bitat for an endangered or threatened spec	vy Yes∐No ies?
p. Does the project site contain any species of plant or animal that is lis	ted by NYS as rare, or as a species of	∐ Y es <b>√</b> No
special concern?		
If Yes:		
i. Species and listing:		
q. Is the project site or adjoining area currently used for hunting, trapping	ig, fishing or shell fishing?	Y es No
If yes, give a brief description of now the proposed action may affect the	at use:	
E.3. Designated Public Resources On or Near Project Site		
a. Is the project site, or any portion of it, located in a designated agricult	tural district certified pursuant to	Yes <b>7</b> No
Agriculture and Markets Law, Article 25-AA, Section 303 and 304?	1	
If Yes, provide county plus district name/number:		
<i>i</i> . If Ves: acreage(s) on project site?		Y es VINO
<i>ii</i> Source(s) of soil rating(s):		·····
c. Does the project site contain all or part of, or is it substantially contig	guous to, a registered National	_Yes <b>√</b> No
Natural Landmark?		
i Nature of the natural landmark: Dislogical Community	Geological Feature	
<i>ii</i> . Provide brief description of landmark including values behind desi	gnation and approximate size/extent:	
the result of the reservation of randmark, including values bellind desi	snaron and approximate SIZE/Extent.	·····
d. Is the project site located in or does it adjoin a state listed Critical En	vironmental Area?	☐Yes <b>∑</b> No
If Yes:		
<i>I.</i> CEA name:		· · · · · · · · · · · · · · · · · · ·
<i>ii.</i> Designating agency and date:		

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district	Yes No
which is listed on the National or State Register of Historic Places, or that has been determined by the Commission	oner of the NYS
Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Pla	aces?
If Yes:	
<i>i</i> . Nature of historic/archaeological resource: Archaeological Site	
ii. Name: New York State Barge Canal Historic District, Canajoharie Historic District (2014), US Post OfficeCanajoharie	
<i>iii.</i> Brief description of attributes on which listing is based:	
Barge Canal: nationally significant work of early 20th century engineering; Canajoharie: notable examples of various architectural styles; Post Office: Colo	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for	<b>√</b> Yes No
archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	
g. Have additional archaeological or historic site(s) or resources been identified on the project site?	∐Yes <b>√</b> No
If Yes:	
<i>i</i> . Describe possible resource(s):	
ii. Basis for identification:	
h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local	<b>V</b> Yes No
scenic or aesthetic resource?	
If Yes:	
<i>i</i> . Identify resource: Riverfront Park, Boiling Pot Park, Wintergreen Park, Haslett Park	
ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or	scenic byway,
etc.): Local parks	
<i>iii</i> . Distance between project and resource: 0.3, 0.6, 2.0, 3.6 miles.	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers	☐ Yes <b>Z</b> No
Program 6 NYCRR 666?	
If Yes:	
<i>i</i> . Identify the name of the river and its designation:	
<i>ii</i> . Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	□Yes □No

#### F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

#### G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Steven R. Wilson

Date 3/7/22

Signature

Ath	Will
/	

Title Project Manager



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



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EMENTP, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri clon@penStreetNap contributors, and the GIS User Community

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:Mohawk Valley Heritage Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	876-261
E.2.h.iv [Surface Water Features - Stream Classification]	C
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes

E.2.k. [500 Year Floodplain]	Yes
E.2.I. [Aquifers]	Yes
E.2.I. [Aquifer Names]	Principal Aquifer
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Northern Long-eared Bat, Bald Eagle
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	New York State Barge Canal Historic District, Canajoharie Historic District (2014), US Post OfficeCanajoharie
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

	REFERRAL FORM MONTGOMERY COUNTY PLANNING BOARD Referral Number assigned by the MCPB upon acceptance of referral for review
	This Referral must be received SEVEN CALENDAR DAYS prior to the MCPB meeting date in order for it to be placed on the agenda.
TO:	Montgomery County Planning Board, Old County Courthouse, PO Box 1500, Fonda, New York 12068 Fax: 518-853-8336FROM: Municipal Board: Village of Carajoharie Planning Referring Officer: Kylling Targuzn - Chair Board Mail original resolution to: Canajoharie Village Ha T5 Erie Blvcf Canajoharie, NY 13317
1.	Applicant: Canajoharie Falls Aumetral Site Address: 6339 St. HWY 10, Canajoharie, NY 13317 Association
3.	Tax Map Number(s):         74-4-5         4. Acres:
5.	Is the site currently serviced by public water? Yes X No
6.	On-site waste water treatment is currently provided by: Public Sewer or Septic System
7.	Current Zoning: <u>Pes</u> <u>8. Current Land Use: <u>Residential home [Climetery</u></u>
9.	Project Description: The ASSociation would like to convert the residential
<u>00</u>	itetaker huse into professional offices.
11.	Text Adoption or Amendment       Isite is located within 500' of:         Imaunicipal boundary.       Imaunicipal boundary.         Imaunicipal boundary.       Imaunicipal board if different from above.         Imaunicipal board if different from above.       Imaunicipal board if different from above.
12.	Text Adoption or Amendment Referring Board:
	Comprehensive Plan Docal Law Zoning Ordinance Other
13.	Zone Change Referring Board:
Pro	posed Zone District: Number of Acres:
Pu	pose of the Zone Change:
14	Site Plan Project Site Review Referring Board:
Pro	posed Improvements:
Pro	posed Use:
Wi	Il the proposed project require a variance?  Yes No Type: Area Use
L.	Specify:
15 6	Specify

15. 🔊 Special Permit	Refer	ring Board: \	lillage of Canaj	oharic Planning	
Section of local zoning code that requires a speci	al permit for this u	ise: Zoning	Schedule A	Board	k
Will the proposed project require a variance?	Yes	K No	Type: 🔲 Area	Use Use	
16. Variance	Refer	ring Board:			
Area Use					
Section(s) of local zoning code to which the varia	ince is being soug	ht:			
Describe how the proposed project varies from the	e above code sect	ion:			
	SEOR Determi	nation			
Action:	Finding:				
Type I	-	D Positive	Declaration - Draft EIS	5	
Туре II		Condition	onal Negative Declaratio	m	
Unlisted Action		🗌 Negativ	e Declaration		
Exempt		🕅 No Find	ling (Type II Only)		
SEQR determination made by (Lead Agency):	Village of C	anájuhari Plan Erial	e Date: [2 DingBoard	112/22	
Send 3 copies of a "Full Statement of the Prop	osed Action" wh	ich includes:			
All materials required by and submitted to the ret	ferring body as an	application			

- If submitting site plans, please submit only 1 large set of plans, and 12 11x17 packets. ٠
- All material may be submitted digitally as well at http://www.mcbdc.org/planning-services/montgomery-county-٠ planning-board-referrals/

This referral, as required by GML §239 I and m, includes complete information, and supporting materials to assist the Montgomery County Planning Board (MCPB) in its review. Recommendations by MCPB shall be made to the Referring Body within thirty days of receipt of the Full Statement.

Kylie Fergusun, Chair 518.774-8341 Name, Title & Phone Number of Person Completing this Form

12/14/22 Transmittal Date

# REFERRAL FORM MONTGOMERY COUNTY PLANNING BOARD

TO:

Receipt of 239-m referral is acknowledged on \_\_\_\_\_\_. Please be advised that the Montgomery County Planning Board has reviewed the proposal stated on the opposite side of this form on \_\_\_\_\_\_ and makes the following recommendation.

Approves
Approves (with Modification)
Disapproves:
No significant County-wide or inter-community input
Not subject to Planning Board review
Took no action

Section 239-m of the General Municipal Law requires that within thirty days after final action by the municipality is taken; a report of the final action shall be filed with the County Planning Board.

Date

Kenneth F. Rose, Director Montgomery County Dept. of Economic Development and Planning

Canajoharie Cemetery-Falls Association VILLAGE OF CANAJOHARIE APPLICATION FOR SPECIAL USE PERMIT

Code of Village of Canajoharie, §157-15

Special uses are considered to be uses which may be appropriate in the district in which they are located, but which possess special characteristics which may pose land use problems or conflicts if controlled only by the district regulation applicable to permitted uses. Please refer to attached "Schedule A: Schedule of Use Regulations" for permitted Special Uses within the Village. Section 157-15 is included for your reference. This Application must be submitted to the Planning Board.

Application for a Special Use pursuant to \$157-15 of the Village Code of the Village of Canajoharie shall be upon this form and shall contain a written description of the proposed use, with reference to the appropriate use and bulk regulations herein. The following general procedures shall be applied:

Applications for special use permits may also require site plan approval in accordance with the site plan regulations in accordance with Chapter 124, Site Plan Review, of the Code of Village of Canajoharie. The Planning Board may waive site plan approval for a special use permit application that will involve no physical alteration or disturbance of a site.

In its review, the Planning Board may consult with legal, engineering, planning or environmental consultants and agency representatives to render professional opinions regarding the verification of data shown in the application, the possible effects of the proposed use upon the surrounding properties, the general harmony with the essential character of the area, the aesthetic and design qualities of the proposed use, and such other factors or considerations as may be appropriate in considering the merits of the proposal. ANY EXPENSES ASSOCIATED WITH HIRING SUCH PROFESSIONALS SHALL BE THE RESPONSIBILITY OF THE APPLICANT.

The approval of a special use permit shall be limited to the use described and approved in such permit. If all conditions and standards of the approval are not complied with throughout the duration of the special permit, or if the approved use is discontinued for a period of one year, the special permit shall be deemed revoked.

## VILLAGE OF CANAJOHARIE APPLICATION FOR SPECIAL USE PERMIT

Name of Applicant: <u>NONOLO</u> <u>E. L. MONC. e III, <u>IV2SID</u> <u>ENT</u> Address of Applicant: <u>IU2 Grayette</u> <del>St., <u>P</u>O-DOXISG, <u>lalatine</u> <u>M.,</u> <u>NY</u>19488 Business Phone: <u>Fax:</u> Home Phone: <u>S16-673-5139</u> Mobile Phone: <u>S18-774-1585</u> Email: <u>Property Interest of Applicant: <u>Resident of Canajohanie falls Comptery</u> <u>ASSOC</u>, Name of Owner (Owner, Contract Purchaser, Owner Representative, if different from Applicant): <u>Canajohanie Falls CEMOTANY ASSOCIATION</u> Address of Owner: <u>6399 State High Way</u> <u>10</u>, <u>Canajohanie</u>, <u>MY</u>19311 Business Phone: <u>S18-673-510</u> Home Phone: <u>S18-673-510</u> Home Phone: <u>S18-673-510</u> Home Phone: <u>S18-673-510</u> Home Phone: <u>S18-673-510</u> Home Phone: <u>S18-673-510</u> Email: <u>Property Address &amp; SBL#: <u>6339</u> <u>State Highway</u> <u>10</u>, <u>Canajohanie</u>, <u>N.Y</u>13317 Legal Description of Property: <u>CeMeteRy</u></u></u></del></u>	Date Filed:
Address of Applicant: <u>14</u> L <u>G</u> Fay <u>e</u> + t. <u>e</u> <u>St.</u> , <u>P.O. BOX 156</u> , <u>Balatine M.</u> , N.Y. 19488 Business Phone: <u>Fax:</u> Home Phone: <u>S16-673-5139</u> Mobile Phone: <u>S18-774-1585</u> Email: <u>Property Interest of Applicant: <u>Presci d ient of Capa johanie Falls Cametery</u> <u>ASSOC</u>, <b>Name of Owner</b> (Owner, Contract Purchaser, Owner Representative, if different from Applicant): <u>Cana johquire Falls CEMetiany ASSOCiation</u> Address of Owner: <u>6399 State Highway</u> 10, <u>Canajohanie</u>, <u>My</u> 13914 Business Phone: <u>S18-774-7063</u> Fax: Home Phone: <u>S18-673-5101</u> Mobile Phone: <u>Email:</u> <b>Property Address &amp; SBL#:</b> <u>6339 State Highway</u> 10, <u>Canajohanie</u>, <u>My</u> 13314 Legal Description of Property: <u>CleMetery</u></u>	Name of Applicant: RONALD E. LIMONCELLI, PRESIDENT
Business Phone:	Address of Applicant: 14 La Fayette St., P.O. DOX 156, Palatine M., N.Y. 1948
Home Phone: <u>S18-673-5139</u> Email: Property Interest of Applicant: <u>Phe Sid ENT OF CANA johanie Falls Clustery</u> ASSOC, Name of Owner (Owner, Contract Purchaser, Owner Representative, if different from Applicant): <u>Cana johanie Falls CEMPETAN</u> ASSOCIATION Address of Owner: <u>63999State High Way</u> 10, <u>Cana johanie</u> , <u>My</u> 13915 Business Phone: <u>S18-774-7062</u> Fax: Home Phone: <u>S18-679-1101</u> Mobile Phone: <u></u> Email: <u>Property Address &amp; SBL#: 6339 State High Way 10, Cana johanie</u> , <u>Ny</u> 13317 Legal Description of Property: <u>Clemetery</u>	Business Phone: Fax:
Email: Property Interest of Applicant: <u>Presid i=Nt of Capa johanis falls Cempterry</u> ASSOC, Name of Owner (Owner, Contract Purchaser, Owner Representative, if different from Applicant): <u>Canajohanie</u> , Falls <u>CEMPeterry</u> ASSO <u>Ciation</u> Address of Owner: <u>63999State</u> <u>HighWay</u> 10, <u>Canajohanie</u> , <u>My</u> 19313 Business Phone: <u>518-679-10</u> Mobile Phone: Email: Property Address & SBL#: <u>6339</u> <u>State</u> <u>HighWay</u> 10, <u>Canajohanie</u> , <u>My</u> 13319 Legal Description of Property: <u>Cemeterry</u>	Home Phone: 518-673-5139 Mobile Phone: 518-774-1585
Property Interest of Applicant: Presid int of Cana johanie Falls Computery ASSOC, Name of Owner (Owner, Contract Purchaser, Owner Representative, if different from Applicant): Cana johanie Falls CEME tony ASSOCiation Address of Owner: 6399 State High Way 10, Cana johanie, My 13314 Business Phone: <u>S18-774-7062</u> Fax: Home Phone: <u>S18-679-3101</u> Mobile Phone: Email: Property Address & SBL#: 6339 State High Way 10, Cana johanie, N.Y. 13319 Legal Description of Property: <u>CLMETERY</u>	Email:
Name of Owner (Owner, Contract Purchaser, Owner Representative, if different from Applicant): <u>Canajohanie</u> Falls <u>CEMETAN</u> <u>ASSOCIATION</u> Address of Owner: <u>63999State High Way 10</u> , <u>Canajohanie</u> , <u>My</u> 13911 Business Phone: <u>S18-774-7062</u> Fax: Home Phone: <u>S18-673-2101</u> Mobile Phone: Email: Property Address & SBL#: <u>6339</u> <u>State Highway 10</u> , <u>Canajohanie</u> , <u>My</u> 13317 Legal Description of Property: <u>CEMETERY</u>	Property Interest of Applicant: Presidient of Canajohanis Falls Cemetery ASSOC,
Cana junchanie Falls CEMetiny Association Address of Owner: 6399 State High Way 10, Canajohanie, 144 13317 Business Phone: <u>518-679-101</u> Mobile Phone: Home Phone: <u>518-679-101</u> Mobile Phone: Email: Property Address & SBL#: 6339 State Highway 10, Canajohanie, N.Y. 13317 Legal Description of Property: <u>CleMetery</u>	Name of Owner (Owner, Contract Purchaser, Owner Representative, if different from Applicant):
Address of Owner: <u>63999 State High Way</u> 10, <u>Canajohanie</u> , <u>My</u> 13911 Business Phone: <u>S18-774-7062</u> Fax: Home Phone: <u>S18-679-J101</u> Mobile Phone: Email: <b>Property Address &amp; SBL#:</b> <u>6339 State Highway</u> 10, <u>Canajohanii</u> , <u>N.Y</u> , 13317 Legal Description of Property: <u>CLEMETERY</u>	Canajohanie Falls CEMPETERY Association
Business Phone: <u>518-774-706</u> Fax: Home Phone: <u>518-673-1101</u> Mobile Phone: Email: Property Address & SBL#: 6339 State Highway 10, Canajahani, N.Y. 13319 Legal Description of Property: <u>CLEMETERY</u>	Address of Owner: 6339 State High Way 10, Canajohanie, 14.1/13311
Home Phone: <u>518-673 5101</u> Mobile Phone: Email: Property Address & SBL#: 6339 State Highway 10, Canajohanie, N.Y. 13317 Legal Description of Property: <u>CLMETERY</u>	Business Phone: <u>518-774-7064</u> Fax:
Email: Property Address & SBL#: 6.33 9 State Highway 10, Canajahani, N.Y. 1331 Y Legal Description of Property: <u>CLMETERY</u>	Home Phone: <u>518-673 \$101</u> Mobile Phone:
Property Address & SBL#: 633   State Highway 10, Canajahani, N.Y. 1331 Y Legal Description of Property: <u>ClMettery</u>	Email:
Legal Description of Property: <u>CLMUTERY</u>	Property Address & SBL#: 6339 State Highway 10, Canajahani, N.Y. 13317
· · · · ·	Legal Description of Property: <u>CLMUTERY</u>
SWIS Code:[Attach evidence of ownership.]	SWIS Code:

Present Use (Existing structures and their location, existing topography, location and distance to the nearest state/county/town/maintained road): \_\_\_\_\_

2

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Requested Use/Construction (Proposed structures, location, proposed changes, setbacks, locat istance to the hearest state/county/town/maintained road): [////// (and enables Uneah worn GAAd [Attach photographs of the projected site ] make Guilder Handica Estimated Date to Begin New Use/Construction: For Each of the Following Designers and Contractors (including, but not limited to Architect/Engineer; General Contractor; Electrical Contractor; Plumbing Contractor; Mechanical Contractor), please list the following information:

achitects Address: City, State, Zip: //// Phone Number: 5

Please provide a Narrative Statement evaluating the economic effects on adjoining property; the effect of such elements as noxious or offensive by reason of the production or emission of smoke, noise, odor, dust, glare, fumes and vibration on adjoining property; a discussion of the general compatibility with the adjacent and other properties in the district; the effect of traffic; and the relationship of the proposed use to the Comprehensive Plan, and how it fulfills the requirements of paragraph A two (A(2)) of Section 157-15 of the Zoning Code:

(Attach additional pages if needed.)

### For All That Apply, Describe How the Special Use:

(Attach additional pages, if needed.)

1. Will be harmonious with and in accordance with the general objectives, or within a specific objective of the Comprehensive Plan and/or this Zoning Code:



2. Will be designed, constructed, operated, and maintained so as to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity and that such use will not change the essential character of the same area:

- 3. Will not be hazardous or disturbing to existing or future neighborhood uses:
- 4. Will be served adequately by essential public facilities and services such as highways, streets, police and fire protection, drainage structure, refuse disposal, water, sewers and schools, or that the persons or agencies responsible for the established of the proposed use shall be able to provide adequately any such services:
  - $\gamma$

IV O

- 4. Will not create excessive additional requirements at public cost for public facilities and services, and will not be detrimental to the economic welfare of the Village:
- 5. Will not involve uses, activities, processes, materials, equipment and/or conditions of operation that will be detrimental to any persons, property or the general welfare by reason of excessive production of traffic, smoke, fumes, glare or odors:

\_\_\_\_\_

6. Will have vehicular approaches to the property, which shall be so designed as not to create an undue interference with traffic on surrounding public streets or roads:

\_\_\_\_\_

7. Will not increase the potential for flood damage to adjacent property or require additional public expense for floor protection, rescue or relief:

. .....

8. Will not result in destruction, lose or damage of natural, scenic or historic features of major importance to the community:

I/We certify that all of the statements and documents submitted as part of this application are true I/We certify that an or me summer to the best of my/our knowledge and belief.  $\bigvee ES$ 

I/We consent to the entry in or upon the premises described in this application by any authorized official of the Village of Canajoharie for the purpose of inspection. VES

I/We consent to pay the Village of Canajoharie all costs incurred for transcribing the public hearing on this application. VFS

I/We understand that no final action shall be taken by the Village Board subsequent to the public hearing until transcribing and all other applicable costs or fees have been paid.  $\forall ES$ 

9-13-2022

Date

9-13-2019

Date

Rohald E. Limoncelli, Pres. Print Name Ronald E. Jon Mucelli

Signature of Applicant

EDGENE FEITER

Print Name

Signature of Applicant (Baard Member)

# Short Environmental Assessment Form Part 1 - Project Information

#### **Instructions for Completing**

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

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

		,		
Part 1 - Project and Sponsor Information				
unavalin of analash toune				
6339 State Highwah 10. Constance, N.Y.	13314	· · · · · · · · · · · · · · · · · · ·		
Project Location (describe, and attach a location map):	·			
Brief Description of Proposed Action:	10,10	- All -		
Caretake Home will be reversed to make	rde Reception Co	ner, offices,		
Board Room, and employee break	Noom addition	al parking		
for 5 to 6 Cans, Make Buildin Handicap	accessible	v ()		
	•			
Name of Applicant of Sponsor	The Fice AL			
A 1/MI D 1/ L	$\frac{1 \text{ elephone: } \sqrt{8 - 1}}{2}$	4-1983		
Ronald ELimoncelli VresidENT	E-Mail:			
14 Lerhabetto & P.D. Pox 156				
Citypa: PAUL, NUI 17429	State: Z	in Gode:		
1. Does the proposed action only involve the legislative adoption of a plan, loca	l law, ordinance,	NO YES		
administrative rule, or regulation? If Ves, attach a narrative description of the intent of the proposed action and the e	nvironmental resources that			
may be affected in the municipality and proceed to Part 2. If no, continue to ques	tion 2.			
2. Does the proposed action require a permit, approval or funding from any other	er government Agency?	NO YES		
If Yes, list agency(s) name and permit or approval:				
3. a. Total acreage of the site of the proposed action?	SO acres			
b. Total acreage to be physically disturbed?	10 acres			
or controlled by the applicant or project sponsor?	6 O acres			
4. Check all land uses that occur on, are adjoining or near the proposed action:		,		
5. Urban I Rural (non-agriculture) I Industrial Commercia	al 🔀 Residential (suburba	n)		
Forest Agriculture Aquatic Other(Spec	cify):			
Der Parkland				

Page 1 of 3

5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?		Ø	
b. Consistent with the adopted comprehensive plan?			Ø
6 Is the proposed action consistent with the predominant character of the existing built or natural landses	ne?	NO	YES
6. Is the proposed action consistent with the predominant character of the existing out of natural fundset	фо.		
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area	1?	NO	YES
If Yes, identify:		$\square$	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?		NO	YES
b. Are public transportation services available at or near the site of the proposed action?		R	
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	1		$\square$
9. Does the proposed action meet or exceed the state energy code requirements?		NO	YES
If the proposed action will exceed requirements, describe design features and technologies:			Ø
10. Will the proposed action connect to an existing public/private water supply?		NO	YES
If No, describe method for providing potable water:	<u></u>		Ø
11. Will the proposed action connect to existing wastewater utilities?		NO	YES
If No, describe method for providing wastewater treatment: Septre MMA	·	Ø	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or dis	strict	NO	YES
which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on State Register of Historic Places? $W_{10} M_{10} - M_{10} M_{10}$	the		Ø
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?		$\square$	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	1	NO	YES
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?		M	
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:			

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14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:		
Shoreline K Forest Agricultural/grasslands Early mid-successional		
🗌 Wetland 🔲 Urban 🖾 Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or	NO	YES
Federal government as threatened or endangered?	$\square$	
16. Is the project site located in the 100-year flood plan?	NO	YES
		$\square$
17. Will the proposed action create storm water discharge, either from point or non-point sources?	NO	YES
If Yes,	K	
a. Will storm water discharges flow to adjacent properties?	$\square$	
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	$\square$	
If Yes, briefly describe:		
	· .	
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?	NO	YES
If Yes, explain the purpose and size of the impoundment:		·
	р	
10. Here the site of the proposed action or an adjoining property been the location of an active or closed solid waste	NO	VFS
management facility?		120
If Yes, describe:	M	
· · · · · · · · · · · · · · · · · · ·		
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or	NO	YES
completed) for hazardous waste? If Yes describe:		
	Щ	
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BE MY KNOWLEDGE	ST OF	
munder and an Fall Consta and the a 9-12-	89	
Applicant/sponsor/name		···· • · ·
Signature: WUMALA & AMMACELLA MARTINE Title: 11/14/10/14		

PRINT FORM

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# **REFERRAL FORM** MONTGOMERY COUNTY PLANNING BOARD

Referral Number\_\_\_\_\_\_ assigned by the MCPB upon acceptance of referral for review

This Referral must be received SEVEN CALENDAR DAYS prior to the MCPB meeting date in order for it to be placed on the agenda.

TO:Montgomery County Planning Board, Old County Courthouse, PO Box 1500, Fonda, New York 12068 Phone: 518-853-8334 Fax: 518-853-8336FROM	I: Municipal Board: <u>Town of Florida Planning Board</u> Referring Officer: <u>Michael Taylor - Chairman</u> Mail original resolution to: <u>214 Fort Hunter Road</u> Amsterdam NY 12010
1. Applicant: Dollar General Corporation 2. Site Addres	ss: Route 5 S, Town of Florida Business Park
3. Tax Map Number(s): <u>542-2.31</u>	4. Acres: 21.47 after subdivision
5. Is the site currently serviced by public water? 🗌 Yes	X No
6. On-site waste water treatment is currently provided by:	Public Sewer or Septic System
7. Current Zoning: IBP 8. Current	Land Use: Vacant - unused
9. Project Description: Construction of a 167,500 Cold Storage	Varehouse with truck entrance, guardhouse, pump
house with water reservoir, trailer parking, tractor parking and emplo	byee parking.
10. MCPB Jurisdiction:	
Text Adoption or Amendment X Site is located with	hin 500' of: <u>County land, State Route 5S</u>
🔲 a municipal boundary.	(Specify by Name)
X a State or County thruway/highway/roadway	
All an existing or proposed State or County park/recreation a	rea
Apply an existing or proposed County-owned stream or drainag	e channel
X a State or County-owned parcel on which a public buildin	g or institution is situated
a farm operation within an Agricultural District (Incl. Ag	data Statement) (does not apply to area variances)
11. PUBLIC HEARING: Date: <u>11/7/2022</u> Time: <u>6:30pm</u>	Location: 167 Ft Hunter Road
<b>Referred Action</b> If referring multiple, related actions, please identify the referr	(s) ng municipal board if different from above.
12. Text Adoption or Amendment	Referring Board:
Comprehensive Plan Local Law Zoning Ordinand	e Other
13. 🗌 Zone Change	Referring Board:
Proposed Zone District:	Number of Acres:
Purpose of the Zone Change:	
14. X Site Plan X Project Site Review	Referring Board:
Proposed Improvements: 167,500 sf Cold Storage Warehous	Se
Proposed Use: 167,500 sf Cold Storage Warehouse	
Will the proposed project require a variance?	X No Type: Area Use
Specify:	
Is a State of County DOT work permit needed? If Yes :	State or County No
Specify:	

15. Special Permit	Ref	ferring Board:		
Section of local zoning code that requires a speci	al permit for thi	s use:		
Will the proposed project require a variance?	Yes	🗌 No	Type: 🗌 Area	Use
16. Variance	Ref	ferring Board:		
Area Use				
Section(s) of local zoning code to which the variance is being sought:				
Describe how the proposed project varies from the above code section:				

#### **SEQR** Determination

Action:		Finding:
	X Type I	Positive Declaration – Draft EIS
Check	Type II	Conditional Negative Declaration
One	Unlisted Action	Negative Declaration
	Exempt	No Finding (Type II Only)
SEQR det	ermination made by (Lead Agency):	Will be done at January 9th mtg Date:

## **REQUIRED MATERIAL**

#### Send 13 copies of a "Full Statement of the Proposed Action" which includes:

All materials required by and submitted to the referring body as an application (

- If submitting site plans, please submit only 1 large set of plans, and 12 11x17 packets.
- All material may be submitted digitally as well at <u>http://www.mcbdc.org/planning-services/montgomery-county-planning-board-referrals/</u>

This referral, as required by GML §239 1 and m, includes complete information, and supporting materials to assist the Montgomery County Planning Board (MCPB) in its review. Recommendations by MCPB shall be made to the Referring Body within thirty days of receipt of the Full Statement.

Emily Staly

Emily Staley - Town Clerk/Secretary 518-843-6372 x1

12/12/2022

Transmittal Date

Name, Title & Phone Number of Person Completing this Form

#### **Dollar General Fresh Distribution Center Written Statement:**

The proposed development is for a new cold storage distribution center within the Florida Business Park. The site is currently part of a larger parcel of land totaling 54.4 acres that will be subdivided and replatted. The existing parcel is located east of Fort Hunter Road and north of Interstate 90 along NYS Highway 5S in the Town of Florida. The development is proposed on approximately 21.5 acres located along the 2000 block of NYS Hwy 5S. The land is zoned Industrial with Industrial uses to both the south and west of the property. The land to the east is being used as residential. The leftover land to the north is undeveloped with a good portion of this identified as an archaeologically sensitive area.

The site is currently an undeveloped former agricultural field and is served by a paved access road to be platted as right of way. The site is served by the necessary utilities, including watermain and sanitary sewer infrastructure. There is an existing delineated wetland that traverses the center of the site from the south to the north. This half-acre wetland is fed from a 24-inch culvert and a ditch along Highway 5S. The development will require removal of the narrow ditch portion of the wetland for placement of the building. The site planning has sited the stormwater management and program in such a way as to maintain the larger bulb shape of the wetland that amounts to about half of the original wetland size.

The site development includes a 167,500 sf cold storage warehouse that would include administration and dispatch offices. Beyond the principal building, the distribution center will have accessory uses that include a fuel island, guardhouse, and pumphouse with water tank reservoir. The site components include tractor parking, trailer parking, and employee parking, as well as truck scale. The warehouse has 28 dock positions with two of those positions being occupied by compactors. Trash and recycling are handled within the facility and will not be stored on the site. At the northwest corner of the dock wall will be a drive-in wash bay for trailers.

The site is configured so that the docks are located on the north side of the building to utilize the natural topography of the site. The site slopes from the southeast corner to the northwest with a grade differential of almost 75 feet. The stormwater management facilities are all located on the north side of the site to utilize the grade differential as best as possible. The docks for the building are 50-inches below the finished floor elevation (FFE) and so the south and east sides of the building are at a higher elevation to ease the grading transition. As a result, it was difficult to create flat surface features such as vegetated swales to treat the water before routing to the pond. The topography and shape of the property allowed space at the east side of the parcel to berm excess material that will provide a nice buffer between the new warehouse and the existing residential land use.

Truck traffic will enter the facility from the northwestern corner of the property along the local street through a 24-hour, 7-days per week staffed guardhouse. The truck entrance into the site has been designed at a skew to ease truck movements into and out of the site as the site area to the north is an

archaeologically sensitive area that will not be developed. A second entry and exit into the site has been provide at the southwest corner of the site for employee access, as well as parking for tractors and fire access. There is a second gate along the south side of the building to allow fire truck movements around the facility. This drive will be gated and equipped with a knox box.

The site is surrounded by an 8-foot chainlink security fence. Access to the site will be with key cards or entry through the guardhouse. Employees will enter through a separate driveway along the local street into the employee parking lot accessed through an arm gate. Employees will enter the secure side of the facility through a turnstile with the use of a key card. The site and building layout has separated the employee parking and entrance from the truck and trailer area and as a result pedestrians do not need to cross the path of the trucks to enter the building. Visitor, management, and accessible parking stalls are also located within the employee lot. The parking lot will have lighting poles similar in nature to the original development across the street. The light pole locations and information on the pole bases and lighting fixture can be reviewed on the Site Plan, Sheet C-101.

A single monument sign is proposed at the southwest corner of the property at the same size as located with the original facility. Additionally, two directional signs are proposed that direct traffic to the employee and visitor parking lot or to the main truck entrance. Signage location and details can be found on the Site Plan on Sheet C-101.

Stormwater management has been designed to adhere to the New York State (NYS) Stormwater Management Design Manual (January 2015). Pavement and roof areas will be handled with surface runoff to storm sewer inlets and will move through conveyance pipe to designated forebays. The forebays are utilized for pretreatment before being released to the main pond located west of the existing wetland and east of the archaeologically sensitive area. The wet pond was selected for the stormwater BMP due to the poor permeability of the soils and the relatively higher groundwater. A more detailed approach to the stormwater management can be reviewed in the attached stormwater management technical memorandum.

There is an existing sanitary sewer manhole at the southwest corner of the site that crosses Highway 5 S and is routed to the west to the existing lift station. The lift station then routes a forcemain on the south side of Hwy 5S to the east. The proposed development will connect with a new manhole to the existing sanitary sewer at the north side of Hwy 5S. The manhole is fairly shallow, but the main warehouse will drain by gravity mains to this manhole. In order to serve the guardhouse and pumphouse, however, a grinder pump will be required with forcemain that will break in this manhole. The load of these two uses is relatively small and can be handled with a grinder pump. There is also an existing 12-inch watermain that exists at the northern side of the right of way of Highway 5S. Additionally, there is an existing hydrant located at the southwest corner of the property near the access street. The development will have two separate connections to this watermain. The first will be an 8-inch connection for fire that feeds the pumphouse. The second connection will be for a 4-inch domestic watermain.



The development will have an approximate 300,000 gallon water tank reservoir equipped with two fire pumps to supply the required flow to the 10-inch fire main loop that surrounds the warehouse. Final design will determine the ultimate size of the tank and loop required based on system design and current flow data. Two sets of duplicate 10-inch fire service risers have also been provided at the south side of the warehouse outfitted with PIVs to provide for redundant supply. Hydrants have been located around the warehouse, as well as at the Pumphouse and Guardhouse.

Known landscaping requirements from Town of Florida have been incorporated into the development. The development has a total landscaped area of 41 percent of the property area and incorporates the required street trees, perimeter landscaping and plantings for the wetland mitigation area. The large berm at the east will be planted at the top to provide additional buffer between the residential neighbor.

Known requirements from the Town of Florida are incorporated into the site parking, circulation, building layout, and landscaping.



October 14, 2022

Michael Taylor, Planning Board Chairman Town of Florida 214 Fort Hunter Road Amsterdam, New York 12010

Re: Concept Review & Preliminary SEQRA Determination 2000 Route 5S Dollar General

File: 1631.008.001

Dear Mr. Taylor:

Barton & Loguidice, D.P.C. (B&L) has completed a concept site plan review of the following reports and information for the Dollar General 2000 Route 5S project proposed by Elan Design Lab Inc.:

- 1. Site Plan Application dated August 31, 2022, prepared by Dollar General Corporation;
- 2. Stormwater Management Plan dated September 1, 2022, prepared by Elan Design Lab Inc.;
- 3. Project Narrative, dated September 1, 2022 prepared by Elan Design Lab Inc.;
- Response to DCC comments dated May 25, 2022, prepared by Advance Engineering & Surveying PLLC;
- 5. Full EAF date dated August 31, 2022 prepared by Dollar General Corporation;
- 6. Concept Site Plans, dated September 1, 2022 prepared by Elan Design Lab Inc.;
- 7. Building floor plans and elevations dated August 30, 2022 prepared by Elan Design Lab.

Based on our review of the above information we have the following comments:

General:

- 1. Does the facility have a sprinkler system that operates in the case of an emergency?
- 2. Where are the easements located on the survey? Show/label them.
- 3. Label property zoning and adjacent landowners with tax map and address numbers.
- 4. Coordinate grading near the property line with adjacent NYS DOT HWY 5S Widening Project.
- 5. Add SB to the legend. Why are there two SB2's and SB10's on the plans?
- 6. Include door and gate symbols in the legend.
- 7. On page C-101, the setbacks on the east side of the lot appear to have been switched, the 50' setback is said to be closer to the property line than the 20' setback.
- 8. Confirm the height of the light poles are per town code.
- 9. Sign E2 should be moved closer to the road so that truck drivers and people coming into the property can better see where they are being directed to go.

Michael Taylor, Planning Board Chairman Town of Florida October 14, 2022 Page 2 of 3



- 10. A local snowmobile trail would be impacted by the proposed site development. Are there areas to re-locate this trail on the site? Coordinate with the Town of Florida.
- 11. Black Widow trees are susceptible to root intrusions and a concern near drainage inlets and outlets, consider using shallow rooted wetland seed mixes in these areas.

Water/Sewer:

- 1. Need correspondence from City of Amsterdam agreeing to furnish water and sewer to this site and their confirmation that adequate capacity to provide proposed demands exist for sanitary sewer and water/fire flow demands.
- 2. Show means of sanitary sewer service in detail.

### SEQRA:

- 1. Confirm the site does not contain wetlands and any evidence of refuse dumping. Locate federal wetlands on the mapping and provide documentation from the Army Corps.
- 2. Include any permitting required for fuel storage and dispensers.

### Stormwater:

- 1. What is happening with the drainage offsite? What storm is the bypass stormwater conveyance sized for and are there overflows onto the site during extreme events such as the 100 year storm?
- 2. Show the extent of sub catchment 3E and include in hydrologic modeling to ensure adequately conveyed, see comment 1.
- 3. Water quality volume storm rainfall in Hydrocad likely needs to be higher to equal 24 hour volume of the NYS DEC water quality volume calculations to establish more accurate peak runoff rate of WQv storm.
- 4. Show overflows from the wet pool. We recommend broad crested weirs with generous widths that overflow to stable areas to supplement any grate or piped outflow device. Rip-rap channel or otherwise reinforced channel capable of an erosion resistant surface on a sloped area is needed to protect the basin embankment(s).
- 5. How will the fuel island be protected from transporting runoff potentially in contact with spilled fuels to stormwater management devices? Is the area incorporate a roof and emergency shut-off to pumps?

If you have any questions, please feel free to contact our office.

Sincerely,

BARTON & LOGUIDICE, D.P.C.

Bradley D. Hart

Bradley D. Grant Senior Project Manager

Michael Taylor, Planning Board Chairman Town of Florida October 14, 2022 Page 3 of 3



BDG/bdg

Application #:\_\_\_\_\_ Date: Project Name:

Page 1 of 2

## Town of Florida **Planning Board Application to the Planning Board**

A completed Application must be filed at least ten (10) days prior to the meeting at which it is to be considered by the Planning Board, including all applicable attached information.

Applicant: Dollar General Corporation, Kacey Levine	Property Owner:MCIDA, Ken Rose
Address: 100 Mission Ridge	(if different) Address: 9 Park Street, P.O. Box 1500
Goodlettsville, TN 37072	Fonda, NY 12068
Phone: (404) <u>309-9846</u>	Phone:(518) 853-8334
Professional	Other:
Advisor: Marcelle Weslock, Elan Design Lab	(if appropriate, please specify)
Address: 310 S 4th Avenue, Suite 1006	Address:
Minneapolis, MN 55415	
Phone: (612)260-7981	Phone: ( )
1) Property Location: Address: 2000 block of NY State Hw	y 5S
General Location: <u>North side of Hwy 5S, east c</u> Highway 5S from Dollar Ger	of Fort Hunter Road across the street from Vida Blend and across heral Distribution Center
Zoning District: Industrial Park	
Tax Parcel ID# (SBL): 542-2.31	

2) Type of Application (please check appropriate box(s)):

Major Subdivision/	\$500
Minor Subdivision	\$100
X Major Site Plan	\$500
Minor Site Plan	\$100
Special Permit	\$100
🗌 Lot Line Adjustment	\$100

3) Project Description: Construction of a 167,500 sf Cold Storage Warehouse with truck entrance, guardhouse, pump house with water reservoir, trailer parking, tractor parking, and employee parking. See attached for additional information. For each type of application a checklist detailing the required information has been attached. These checklists are only intended to be a guide to the applicant, for specifics on submission requirements, procedures, timeframes, etc., the applicant should refer to the applicable Town Ordinance (Zoning, Subdivision, etc.), and or State Law (SEQR, Ag & Markets, etc.) Applicant Signature:

Date: August 31, 2022

Property Owner's Signature: \_\_\_\_\_

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

ŗ

Application #:\_\_\_\_\_ Date:\_\_\_\_\_ Project Name:\_\_\_\_\_

Page 2 of 2

## For Office Use Only

Total Amount received: \$	
Check # (s)/Date:	
Received By:	

Zoning Enforcement Officer's certification that application is complete and in conformance with Zoning Regulations.

(Zoning Enforcement Officer)

# For Planning Board Use Only

The Planning Board held a Public Hearing on	(day) of	(date),
(year) in consideration of this application	on.	

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The application is hereby:

Approved
Approved with modifications
Disapproved

Modifications and comments:

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Chairman, Town of Florida Planning Board

Date

Application #:	
Date :	
Project Name:_	

# Town of Florida Site Plan Submission Requirement Checklist

Site Plan shall be prepared by a surveyor, registered professional engineer, architect, or landscape architect at a scale of one inch (1") equals twenty feet (20') or less, on standard 24"x 36" sheets.

- X 1) A completed and signed application to the Planning Board (including this checklist and all information required hereon).
- X 2) If the property is a farm operation within a NYS Agricultural District <u>or</u> with boundaries within 500 feet of a farm operation located in a NYS Agricultural District, the applicant must complete and submit ( with this application) an Agricultural Data Statement (NYS Ag. & Markets) (see attached Appendix A).
- X 3) A completed part 1 of an Environmental Assessment Form (either <u>short or full</u> form, depending upon the nature of the proposal and in conformance with the New York State Environmental Quality Review Act SEQR (6 NYCRR 617), (see attached forms in Appendix B).

# In addition each submitted site plan shall include:

- X 4) Name of the project, boundaries, location maps showing site's location in the town, date, north arrow and scale of the plan.
- X 5) Name and address of the owner of record, developer, and seal of the engineer, architect, surveyor or landscape architect.
- X 6) Name and address of all owners of record of abutting parcels and those within five hundred feet (500°) of the property line.
- X 7) All existing lot lines, easements, and right-of-ways. Include areas in acres or square feet, abutting land uses, and the location and size of structures within five hundred feet (500') of the site.
- X 8) The location and use of all existing and proposed buildings and structures within the development. Include all dimensions of height and floor area, and showing all exterior entrances, and all anticipated future additions and alterations.
- X 9) The location of all present and proposed public and private ways, parking areas, driveways, sidewalks, ramps, curbs, fences, paths, landscaping and walls. Location, type and screening details for all waste disposal containers shall also be shown.
- X 10) The location, height, intensity and bulk type (ie. Fluorescent, sodium incandescent) of all external lighting fixtures. The direction of illumination and methods to eliminate glare onto adjoining properties must be shown.
- X 11) The location, height, size, materials and design of all proposed signage.
- X 12) The location of all present and proposed utility systems including:

- a. Sewage or septic systems
- b. Water supply systems
- c. Telephone, cable and electrical systems
- d. Storm drainage systems including existing and proposed drainage lines, culverts, catch basins, headwalls, end walls, hydrants, manholes, and drainage swales

The planning board may also require soil logs, soil profile analysis (deep hole test pits), percolation tests and storm water run-off calculations for large developments or developments in environmentally sensitive areas.

- Plans to prevent the pollution of surface or groundwater, erosion of soil both during and after X 13) construction, excessive runoff, excessive raising or lowering of the water table, and flooding of other properties, as applicable. There shall be pre and post drainage calculations for the site done by a certified engineer. From this the engineer must show how there will be no increase in runoff from the site. The use of ponds, dry wells, ect. Shall be used, but all sites shall have zero increase in runoff so as not to disturb neighboring properties.
- Existing and proposed topography at five foot (5') contour intervals. All elevations shall refer to X 14) the nearest US Coastal and Geodetic Bench Mark. If any portion of the parcel is within the 100year floodplain, the area will be shown, and base flood elevation given. Indicate areas within site where ground removal or filling is required, and give its approximate volume in cubic yards.
  - X 15) A landscape plan showing all existing natural land features, trees, forest cover and water sources, and all proposed changes to these features, including size and type of plant material, and erosion control measure. Water sources will include ponds, lakes, brooks, streams, wetlands, floodplains, and drainage retention areas.
  - Traffic flow patterns within the site, entrances and exits, loading and unloading areas, curb cuts on X 16) the site and within two hundred feet (200') of the site.

The planning board may require a detailed traffic study for large developments or for those in heavy traffic areas to

- a. The projected number of motor vehicle trips to enter or leave the site, estimated for daily and peak hour traffic level;
- b. The projected traffic flow pattern including vehicular movements at all major intersections likely to be affected by the proposed use of the site;
- The impact of this traffic upon existing abutting public and private ways in C. relation to existing road capacities. Existing and proposed daily and peak hour traffic levels as well as road capacity levels shall also be given.
- For new construction or alterations to any existing building, a table containing the following X 17) information must be included:
  - a. Area of building to be used for a particular use such as retail operation, office storage, ect.;
  - b. Maximum number of employees;
  - c. Maximum seating capacity, where applicable;
  - d. Number of parking spaces existing and required for the intended use
- X\_\_\_18) Elevation plans at a scale of 1/2"=1' for all exterior facades of the proposed structure(s) and/or existing facades, plus addition(s) showing design features and indicating the type and color of materials to be used.

include:

Application #:\_\_\_\_\_ Date:\_\_\_\_\_ Project Name:\_\_\_\_\_

# Town of Florida Site Plan Approval Checklist

Ap	plicant:	Date Completed
0	Pre-Submission Conference is held between the Code Enforcement Officer and the Applican	nt
٥	Nine (9) copies of the Site Plan and Application are submitted to the Code Enforcement Officer accompanied by the required fee	
	Code Enforcement Officer:	
	(signature)	
C	Within ten (10) days of submission by the applicant, the Code Enforcement Officer certifies Whether or not the application is complete and is in conformance with the Town's Zoning Ordinance	
C	The Code Enforcement Officer forwards the complete application to the Planning Board Chairman no later than twenty (20) days prior to its meeting	
٥	Planning Board reviews Site Plan Application and declares intent to be Lead Agency (SEQI sets public hearing date and notifies applicant	۲); 
0	Planning Board refers Site Plan to County Planning Board (if applicable)	
D	Hold Public Hearing	
	Planning Board completes SEQR process, and files all documents as required by law	
	Planning Board approves, conditionally approves, disapproves Site Plan	÷.
0	Planning Board files all documents as necessary	

# **State Environmental Quality Review Act** (SEQR) Forms

## All Downloadable SEQR Forms are PDF Files

The Environmental Assessment Forms (Appendices A and B) should be used (as of October 7, 2013) for applications to be submitted to reviewing, funding or approving agencies. If you are new to filling out the EAFs or using the EAF Mapper, or have questions about how to use them, we recommend that you begin with the Environmental Assessment Form (EAF) Workbooks at http://www.dec.ny.gov/permits/90125.html. You may also want to view The New EAFs for the 21st Century (PDF) at EAFs http://www.dec.ny.gov/docs/permits ej operations\_pdf/eafwebinar.pdf, which is a training program on using the new (2013) Environmental Assessment Forms, Workbooks and EAF Mapper. EAF forms can be filled out and saved with Acrobat Reader.

- EAF Mapper Application at http://www.dec.ny.gov/eafmapper/, (will generate partially filled-in EAFs) The EAF Mapper Application is an Internet-based Geographic Information System (GIS) specifically designed to facilitate the NY State Environmental Quality Review (SEQR) process by answering geographic or place-based questions on the Short and Full Environmental Assessment Forms (EAFs). The EAF Mapper will provide its results by directly filling out many place-based questions in Part 1 of an electronically fillable SEAF or FEAF form and returning the partially completed form to the applicant or sponsor to finish. If you are using the EAF, Mapper, do not complete any part of a PDF for either the SEAF or FEAF first. Rather, start with the EAF Mapper and wait for the program to fill in the various answers, then save the document to your computer and continue completing the forms from there. If you start a PDF before running the EAF Mapper, any information entered will be lost when the program applies Help in using the EAF Mapper application its GIS data. http://www.dec.ny.gov/EAFHelp/, is located on the EAF Mapper Application's main page next to "feedback". Additional guidance can be found in the EAF Workbook at http://www.dec.ny.gov/permits/90201.html, under the subsection "Using the EAF Mapper".
- Short Environmental Assessment Form (SEAF) (Appendix B to 6 NYCRR 617.20)
  - <u>SEAF Part 1 (PDF)</u> at <u>http://www.dec.ny.gov/docs/permits\_ej\_operations\_pdf/seafpartone.pdf</u>
  - <u>SEAF Part 2 & 3 (PDF)</u> at <u>http://www.dec.ny.gov/docs/permits\_ej\_operations\_pdf/seafpartwo.pdf</u>
- Full Environmental Assessment Form (FEAF) (Appendix A to 6 NYCRR 617.20)
  - <u>FEAF Part 1 (PDF)</u> at http://www.dec.ny.gov/docs/permits ej operations pdf/feafpart1.pdf
  - <u>FEAF Part 2 (PDF)</u> at <u>http://www.dec.ny.gov/docs/permits\_ej\_operations\_pdf/feafpart2.pdf</u>
  - <u>FEAF Part 3 (PDF)</u> at <u>http://www.dec.ny.gov/docs/permits\_ej\_operations\_pdf/feafpart3.pdf</u>

Town of Florida Site Plan Approval Flow Chart





3

LOCATION MAP

1



# PROJECT CONT

4

OWNER	D 11 G
CIVIL ENGINEER	E 3 №
LAND SURVEYOR	S 1 D
CONTRACTOR	C 2 B S
PLANNING BOARD	T 2 A
BUILDING DEPARTMENT	Т 2 4

# COLD STORAGE **DISTRIBUTION CENTER**

5

# DOLLAR GENERAL FRESH

AMSTERDAM, NEW YORK

SHEET INDEX

				SPR RESUBMITTAL - OCTOBER 26, 2022	SITE PLAN REVIEW - SEPTEMBER 1, 2022	<ul> <li>ISSUED FOR REFERENCE ONLY</li> <li>ISSUED</li> </ul>	
				٠	•	C-000	COVER SHEET
						C-001	ALTA SURVEY - SHEET 1 OF 2
						C-002	ALTA SURVEY - SHEET 2 OF 2
						C-010	EXISTING CONDITIONS AND DEMOLITION PLAN
						C-101	SITE PLAN
						C-201	GRADING PLAN
						C-211	EROSION & SEDIMENT CONTROL PLAN
						C-301	UTILITY PLAN
						L-101	LANDSCAPE PLAN

Ā	C	ΤS

DLLAR GENERAL	KACEY LEVINE
) MISSION RIDGE DODLETTSVILLE, TN 37072	T (404) 309-9846 klevine@dollargeneral.com
AN DESIGN LAB, INC.	MARCIE WESLOCK, PE
0 4TH AVENUE S, SUITE 1006 NNEAPOLIS, MN 55415	T (612) 260-7981 MWESLOCK@ELANLAB.COM
ISAN M. ANACKER, PLS, PLLC 182 DAVIS ROAD FAST	SUSAN ANACKER, PLS
ERFIELD, NY 13502	T (315) 724-6800
	DARREN LACKEY
ISINESS CENTER DRIVE . LOUIS, MO 63114	T (312) 239-1282 LACKEYD@CLAYCORP.COM
WN OF FLORIDA 4 FORT HUNTER RD	MIKE TAYLOR
ISTERDAM, NY 12010	T (518) 729-8090
WN OF FLORIDA 4 FORT HUNTER RD	
ISTERDAM NY 12010	T (518) 843-6372





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**DOLLAR GENERAL** DOLLAR GENERAL CORPORATION 100 MISSION RIDGE GOODLETTSVILLE, TN 37072 PROJECT COLD STORAGE WAREHOUSE 20XX NY HWY 5S AMSTERDAM, NEW YORK SHEET INDEX SITE PLAN REVIEW RESUBMITTAL 10/26/2022 SITE PLAN REVIEW 09/01/2022 SPR RESUBMITTAL 10/26/2022 CERTIFICATION CONSTRUC. UNAUTHORIZED ALTERATION OR ADDITION TO ENGINEERING TECHNICAL DOCUMENTS BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF CHAPTER 16, TITLE VIII, ARTICLE 145 § 7209.2 OF THE NEW YORK STATE EDUCATION LAW. SHEET ALTA SURVEY SHEET 1 OF 2 C-001 PROJECT NO. DGC20025



1

2

# NOTES

Underground utilities exist on this parcel. Due to their unknown underground location they are subject to field verification. Call "UDIG NY" @ 811 at least two (2) working days prior to any digging.

Only observed utilities shown are from field evidence found and located. Also historical mapping provided by The Town of Florida and UDIG NY were available for use.

Horizontal datum is based on NAD83. The New York State Coordinate System is in Eastern Zone.

Contour interval = 1.0'.

3

# FLOOD ZONE

Said described property is located within an area having a Zone Designation X by the Secretary of Housing and Urban Development, on Flood Insurance Rate Map No. 36057C0184E & 36057C0195E, with a date of identification of January 19, 2018, for Community Number 360445, Montgomery County, State of New York, which is the current Flood Insurance Rate Map for the community in which said property is situated.



New York State Route 55 All that piece or parcel of land situate at New York State Route 55, Town of Florida, County of Montgomery, State of New York bounded and described as follows:

4

Beginning at a point in the northeasterly boundary of an existing Town Road (New York State Route 55) as shown on an appropriation for New York State Route 55 as shown on Fultonville-Amsterdam, Pt. 2, Map No. 10 A,B by New York State Department of Public Works, dated April 30, 1928 and on file in the N.Y.S. D.O.T., Region 2, Utica, N.Y., at its intersection with the remaining lands of Montgomery County Industrial Development Agency (Instrument Number 2009-00032873) on the west and the property herein described on the east, said point being 5 76° 08' 25" E, 451.61 feet, from a capped iron rod found in the Southwest Corner of the lands of Douglas C. Burroughs and Joann Burroughs as Trustee of the Burroughs Family Irrevocable Trust-2009 (Instr. #2009-00035238), said point being the point of beginning, Thence the following seven courses and distances through the remaining lands of the above referenced Montgomery

County Industrial Development Agency: N 13° 47' 42" E, 625.37 feet to a point,

S 75° 58' 35" E, 63.93 feet to a point,

S 83° 02' 39" E, 51.45 feet to a point,

N 85° 08' 11" E, 158.20 feet to a point,

N 66º 13' 24" E, 56.10 feet to a point,

N 13° 35' 11" E, 131.13 feet to a point, and N 48° 59' 49" E, 43.87 feet to a point in the line between the lands of Mark E. Quiri (Instrument Number

2005-00004478) on the northeast and the property herein described on the southwest; Thence S 52° 04' 48" E along the lands of the said Quiri 1148.81 feet to a point in the line between the lands of Bernard Mars and Kristin Mars (Liber 682 of Deeds at Page 164) on the east and the property herein described on the west; Thence S 10° 44' 04" W along the lands of the said Mars 470.00 feet to a point in the northeasterly boundary of the above referenced New York State Route 55, said point also being shown on the above referenced appropriation for New York State Route 55; Thence the following ten courses and distances along the said New York State Route 55;

N 79° 40' 25" W, 127.37 feet to a point, On a curve to the right having a radius of 1401.00 feet, an arc length of 283.45 feet, and a delta angle of 11° 35' 32" to a point,

N 68° 18' 16" W, 390.01 feet to a point, On a curve to the right having a radius of 1261.00 feet, an arc length of 101.23 feet, and a delta angle of 04° 35' 58" to a point,

N 29º 01' 18" E, 188.24 feet to a point,

N 62° 51' 00" W, 10.00 feet to a point,

S 28° 58' 05" W, 190.00 feet to a point, On a curve to the right having a radius of 1261.00 feet, an arch

On a curve to the right having a radius of 1261.00 feet, an arc length of 104.77 feet, and a delta angle of 04° 45' 37" to a point, N 78° 26' 55" W, 212.08, feet to a point, and

On a curve to the right having a radius of 5697.00 feet, an arc length of 184.31 feet, and a delta angle of 01°51'13" to the point of beginning, containing 21.47 acres.

All bearings are referred to Grid North of Central Meridian. Being a part of the premises conveyed to Montgomery County Industrial Development Agency by deed recorded June 11, 2009 in the Montgomery County Clerk's Office as Instrument Number 2009-00032873.

SHEET 2 OF 2

# TITLE REPORT ITEMS

1

Referencing Title Number NLT-32778A-MONT-22 by Stewart Title Insurance Company, Effective Date: 3/7/2022 Schedule B:

9.) Grant of Easement made by Montgomery County Industrial Development Agency to Niagara Mohawk Power Corporation dated 9/16/2010, recorded 10/13/2020 in Instrument No. 2010–3966. Does Not Affect Property

10.) Easement agreement made by Montgomery County Industrial Agency and Town of Florida dated 3/30/2010, recorded 12/29/2010 in Instrument No. 2010–40635. Does Not Affect Property

11) Grant of Easement made by Montgomery County Industrial Development Agency to Niagara Mohawk Power Corporation dated 4/4/2017, recorded 5/15/2017 in Instrument No. 2017–72960. Shown as plotted

12) Grant of Easement made by Montgomery County Industrial Development Agency to Niagara Mohawk Power Corporation dated 4/4/2017, recorded 5/15/2017 in Instrument No. 2017–72960. Does Not Affect Property

Items 1-8, and 13 are not survey matters.

5

Current	Zonina	Inform	nation
WWITE WITE	and the second s		

Source of Information:	Town of Florida	Website				
Name of Contact: Emily Staley						
Address: 214 Fort Hunter Road, Amsterdam, NY 12010						
Phone: 518-843-6372	Fax: N/A	Email: emilystaley.tofclerk@outlook.com				
Zoning District(s): Indutrial Business Park (IBP)						
Building Setback Requirements						
	Existing	Required/Allowed	Notes			
Front Setback	0'	50'				
Side Setback	0'	One: 20' Both: 50'				
Rear Setback	0'	30'				
Parking Requirements: None						
Height Restrictions: None						
Floor Space Area Restrictions: None						

# ALTA/NSPS Land Title Survey of property of MONTGOMERY COUNTY

INDUSTRIAL DEVELOPMENT AGENCY T.M. #54.-2-2.31 (part of) TOWN OF FLORIDA, COUNTY OF MONTGOMERY STATE OF NEW YORK Dated: April 25, 2022 Scale: 1" = 80' Drawn By: Katrina Talbot Survey and Map by: Susan M. Anacker, Professional Land Surveyor Susan M. Anacker, L.S. Lic # 50321 11082 Davis Road East, Deerfield, New York 13502 (315) 724-6800

22-09

**OLLAR GENER** DOLLAR GENERAL CORPORATION **100 MISSION RIDGE** GOODLETTSVILLE, TN 37072 PROJECT COLD STORAGE WAREHOUSE 20XX NY HWY 5S AMSTERDAM, NEW YORK SHEET INDEX SITE PLAN REVIEW RESUBMITTAL 10/26/2022 SITE PLAN REVIEW 09/01/2022 SPR RESUBMITTAL 10/26/2022 CERTIFICATION const. UNAUTHORIZED ALTERATION OR ADDITION TO ENGINEERING TECHNICAL DOCUMENTS BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF CHAPTER 16, TITLE VIII, ARTICLE 145 § 7209.2 OF THE NEW YORK STATE EDUCATION LAW. ALTA SURVEY SHEET 2 OF 2 C-002 PROJECT NO. DGC20025



3

2

(A1) EXISTING CONDITIONS/ DEMOLITION PLAN

1

# LEGEND

	PROPERTY LINE
ψ ψ ψ ψ ψ ψ	EXISTING WETLAND
* * * * * * * *	WETLAND FILL
	REMOVE VEGETATION
• "SB0"	SOIL BORING

# DEMOLITION NOTES

- BACKGROUND INFORMATION AND TOPOGRAPHIC SURVEY TAKEN FROM SURVEY PERFORMED BY SUSAN M. ANACKER, PREOFSSIONAL LAND SURVEYOR, PLLC ON APRIL 25, 2022. ELAN DESIGN LAB CANNOT GUARANTY THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. VERIFY ALL FIELD CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. IF ANY DISCREPANCIES OR UNKNOWN UTILITIES ARE FOUND THAT IMPACT DESIGN OR IMPAIR CONSTRUCTION, THE ENGINEER AND OWNER SHOULD BE IMMEDIATELY NOTIFIED. 2. EROSION CONTROL MEASURES IDENTIFIED IN THE SWPPP SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS.
- SEE SHEET C-211 FOR EROSION AND SEDIMENT CONTROL REQUIREMENTS AND SEQUENCING.
- 3. CONTRACTOR SHALL BRING ANY CHANGED OR UNFORESEEN CONDITIONS THAT COULD RESULT IN ADDITIONAL COST TO THE ATTENTION OF THE OWNER AND ENGINEER AS SOON AS THEY ARE DISCOVERED SO THAT THEY CAN BE PROPERLY DOCUMENTED. FAILURE TO NOTIFY OR COVERING UN-WITNESSED WORK SHALL RESULT IN REJECTION OF CLAIMS FOR ADDITIONAL COMPENSATION.

**DOLLAR GENERAL** 

DOLLAR GENERAL CORPORATION 100 MISSION RIDGE GOODLETTSVILLE, TN 37072



COLD STORAGE

PROJECT

SITE PLAN REVIEW RESUBMITTAL 10/26/2022

ISSUE SITE PLAN REVIEW 09/01/2022 SPR RESUBMITTAL 10/26/2022








3

(A1) GRADING PLAN

ш

1

2

|

# SPDES AREA SUMMARY

4

	EXISTING	PROPOSED
IMPERVIOUS		
BUILDING	0.00 ACRES	3.92 ACRES
PAVEMENT	0.00 ACRES	8.82 ACRES
TOTAL IMPV	0.00 ACRES	12.24 ACRES
STORMWATER AREA	0.00 ACRES	0.95 ACRES
WETLANDS	0.49 ACRES	0.70 ACRES
PERVIOUS	21.72 ACRES	9.48 ACRES
TOTAL	21.72 ACRES	21.72 ACRES

LEGEND

\_\_\_\_\_

966.3' ±

MATCH

966.35' HP

966.35' LP

966.35' TC

966.35' TW

966.35' BW

LEGEND	
1086	MINOR PROPOSED CONTOUR
	MAJOR PROPOSED CONTOUR
<u> </u>	MINOR EXISTING CONTOUR
<u> </u>	MAJOR EXISTING CONTOUR
<<	STORM SEWER

------- W -------- DOMESTIC WATERMAIN FIRE MAIN ------ NATURAL GAS

5

----- COMM ------ TELECOM/DATA UE UE UNDERGROUND ELECTRIC

> HIGH POINT LOW POINT

MATCH EXISTING

TOP OF CURB TOP OF WALL

BOTTOM OF WALL

NOTES

- 1. CONTRACTOR SHALL UTILIZE THE DIGITAL FILE SUPPLIED BY THE ENGINEER FOR LAYOUT.
- 2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ASSESSING THE STABILITY OF AND EXECUTING PROJECT EXCAVATIONS USING SAFE METHODS. CONTRACTOR IS ALSO RESPONSIBLE FOR NAMING THE "COMPETENT INDIVIDUALS" AS PER SUBPART P OF CFR 1926.6 (FEDERAL REGISTER - OSHA)
- 3. THE TOP OF ALL EXCAVATIONS LEFT OPEN OVERNIGHT SHALL BE MARKED WITH ORANGE SAFETY FENCE.
- 4. CONTRACTOR, SUB-CONTRACTORS, SUPERVISORY PERSONNEL AND OPERATORS MUST ALL READ, UNDERSTAND AND FOLLOW THE TEXT OF THE EROSION AND SEDIMENT CONTROL PLAN, SHEET C-221 THERE IS CRITICAL INFORMATION ON THAT PLAN THAT AFFECTS GRADING CONSTRUCTION.
- 5. SUFFICIENT HIGH QUALITY TOPSOIL SHALL BE PRESERVED TO INSTALL 12 INCHES OVER ALL GREENSPACES OF THE SITE..
- 6. CONSTRUCTION LIMITS: THE CONSTRUCTION LIMITS ARE TO BE ESTABLISHED WITH A PERIMETER SILT FENCE AS SHOWN.
- 7. INGRESS AND EGRESS TO THE SITE SHALL AT ALL TIMES BE LIMITED TO THE CONSTRUCTION ENTRANCE FROM NY STATE ROAD 5S
- 8. NO GRADING SHALL OCCUR WITHIN WETLAND. CONTRACTOR SHALL STAKE AND PROTECT LIMITS PRIOR TO ANY EARTH MOVING.

**DOLLAR GENERAL** 

DOLLAR GENERAL CORPORATION 100 MISSION RIDGE GOODLETTSVILLE, TN 37072



PROJECT

SHEET INDEX

SITE PLAN REVIEW RESUBMITTAL 10/26/2022

SITE PLAN REVIEW	09/01/2022
SPR RESUBMITTAL	10/26/2022

Civil Engineering 310 S 4TH AVENUE, SUITE 1006 MINNEAPOLIS, MN 55415 p 612.260.7980 | www.elanlab.com f 612.260.7990 | CERTIFICATION - ONS C POFESSIONAL UNAUTHORIZED ALTERATION OR ADDITION TO ENGINEERING TECHNICAL DOCUMENTS BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF CHAPTER 16, TITLE VIII, ARTICLE 145 § 7209.2 OF THE NEW YORK STATE EDUCATION LAW. SHEET GRADING PLAN C-201



PROJECT NO.

DGC20025



**DOLLAR GENERAL** DOLLAR GENERAL CORPORATION 100 MISSION RIDGE GOODLETTSVILLE, TN 37072 PROJECT COLD STORAGE WAREHOUSE 20XX NY HWY 5S AMSTERDAM, NEW YORK SHEET INDEX SITE PLAN REVIEW RESUBMITTAL 10/26/2022 ISSUE SITE PLAN REVIEW 09/01/2022 SPR RESUBMITTAL 10/26/2022 Civil Engineering | Land 310 S 4TH AVENUE, SUITE 1006 MINNEAPOLIS, MN 55415 p 612.260.7980 | www.elanlab.com f 612.260.7990 | CERTIFICATION - CNS C POFESSIONAL UNAUTHORIZED ALTERATION OR ADDITION TO ENGINEERING TECHNICAL DOCUMENTS BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF CHAPTER 16, TITLE VIII, ARTICLE 145 § 7209.2 OF THE NEW YORK STATE EDUCATION LAW. SHEET **EROSION & SEDIMENT** CONTROL PLAN C-211 PROJECT NO. DGC20025



NECTIONS TO EXISTING UTILITY SERVICES PRIOR TO ANY DISCREPANCIES BETWEEN LOCATED UTILITIES IG CONDITIONS PLAN SHOULD BE NOTED AND THE ENGINEER.					
NS TO PUBLIC UTIL STERDAM DESIGN S	ITIES TO BE IN ACCORDANCE WITH STANDARDS.				
) PROVIDE ADEQUATE MEANS AND METHODS TO NT PROPERTY IS NOT DAMAGED DURING UTILITY					
HOWN ARE MEASURED FROM CENTER OF STRUCTURE TRUCTURE.					
SERVICE LOCATIO D PLUMBING PLAN	ONS AND INVERTS WITH THE S PRIOR TO COMMENCING UTILITY				
EWER	SCHEDULE 40 OR SDR 26 PVC OR CLASS III RCP				
AIN C	SCHEDULE 80 OR C900 PVC DR 18 C900 PVC DR 14				

	STORM SEWER
	- SANITARY SEWER
W	- DOMESTIC WATERMAIN
F	- FIRE MAIN
G	- NATURAL GAS
СОММ ———	- TELECOM/DATA
UE	- UNDERGROUND ELECTRIC
	- RIGHT OF WAY
	CATCH BASIN MANHOLE (CBMH)
$\bigcirc$	STORM MANHOLE (STMH)
	FLARED END SECTION (FES)
$\bigcirc$	SANITARY MANHOLE (SSMH)
¥	FIRE HYDRANT
$\otimes$	GAS OR WATER VALVE
<b>***</b>	FIRE DEPARTMENT CONNECTION



**DOLLAR GENERAL** 

DOLLAR GENERAL CORPORATION 100 MISSION RIDGE GOODLETTSVILLE, TN 37072

COLD STORAGE WAREHOUSE 20XX NY HWY 5S AMSTERDAM, NEW YORK

PROJECT

# SITE PLAN REVIEW RESUBMITTAL 10/26/2022

SITE PLAN REVIEW SPR RESUBMITTAL \_\_\_\_\_

SHEET INDEX

09/01/2022 10/26/2022





# STORMWATER MEMORANDUM



DATE: September 1, 2022

TO: Town of Florida Planning Board

FROM: Stephen M. Johnston, PE

RE: Dollar General Fresh Conceptual Stormwater Management Plan, Town of Florida, NY

Dollar General (DG) Fresh Distribution Center will include the construction of a 167,500 square foot cold storage warehouse with dispatch and administrative offices, along with associated employee, truck, and trailer parking, loading docks, a 420 square foot guard house, a pumphouse with water tank, and an above ground fuel station.

The 21.47-acre site is currently entirely pervious and is used for agricultural purposes. The existing topography slopes from the southeast corner of the site at an elevation of 544 feet to the northwest corner at an elevation of 470 feet. Similar to the larger distribution center located across Highway 5S from the new cold storage warehouse, the site will be used for a large-scale warehousing and distribution facility. By their nature these facilities need to be relatively flat to readily enable truck movement and parking. As a result, large flat sites with significant impervious areas generate significant runoff that must be collected and disposed of quickly to minimize disruption of the facility.

The site includes an existing wetland that totals 0.49 acres. This wetland stretches along a narrow ditch that drains from the south where it picks up the drainage ditch and existing 24-inch culvert along Highway 55. The drainage continues north through the center of the site to the northern, widened portion of this wetland that is intended to be preserved. A wetland mitigation area is proposed to the west side of the site, however, the site will likely require in-lieu wetland mitigation credits to achieve the total required wetland replacement. Wetland impacts amount to ~0.25 acres due to the construction of the warehouse. The wetland mitigation shown equals ~0.22 acres and is proposed to be located partially within the Town of Florida right of way.

The geotechnical investigation indicated large amounts of dense clayey silts (ML) not ideal for infiltration. Infiltration was then discarded from the realm of stormwater treatment possibilities on this site. The geotechnical report was also consistent with the USDA Soil Survey which indicated largely Hydrologic Soil Group C/D and trace amounts of B soils, see Figure 1 below. The Geotechnical Report is included in this memorandum.

The significant grade differential across the site along with the existing wetlands and poor draining soils start to limit stormwater options on the site. Given the nature of the site and proposed project it appears the best solution for managing stormwater on the site is to maintain as close as possible to existing, predevelopment drainage subcatchments and to provide rate control where needed through the use of a wet pond. Pretreatment will be managed through forebays. The conceptual stormwater management plan for this site is intended to meet the Criteria in the New York Stormwater Management Design Manual dated January 2015. RE: DG Fresh Conceptual Stormwater Management Plan, Town of Florida, NY

Date: September 1, 2022

Page 2 of 4





Figure	2:	USDA	Web	Soil	Survey	Kev	/ and	Soil	Types
- Barc	<u> </u>	0000		5011	Juivey	ne,	ana	5011	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Map Unit Symbol	Map Unit Name	Percent of AOI	Hydrologic Soil Group
DaB	Darien silt loam 3-8% slopes	71.2%	C/D
DaC	Darien silt loam 8-15% slopes	3.8%	C/D
LaB	Lansing silt loam 3-8% slopes	18.4%	В
LaC	Lansing silt loam 8-15% slopes	6.5%	В

The site is to have a proposed impervious surface area of approximately 12.58 acres. This is 58% impervious cover. The water quality volume (WQv) to be treated as a result of this new impervious cover is approximately 53,460 cubic feet. The proposed stormwater management solution will be a combination of a wet pond and three forebays for pretreatment. This pond will be the destination for all impervious runoff on site except small portions of driveway that will be infeasible to route that direction due to the steep grades required to tie into the existing street. These small impervious areas will be routed to a swale prior to discharging to the wetland mitigation area.

Due to the nature of the drainage on site three separate forebays will be provided as pretreatment before the wet pond. Doing so will also mimic existing drainage patterns. Currently runoff drains northwest to the wetland and ultimately offsite to the northwest. The forebays and wet pond combined have a permanent ponding volume that exceeds that of the required WQv. The proposed system shall manage the runoff rate of the following larger events: the Channel Protection Volume (CPv: 1-year storm), Overbank Flood (Qp: 10-year storm), and the Extreme Storm (Qfh: 100-year storm). The existing and proposed drainage maps are included in this memorandum for reference.



RE: DG Fresh Conceptual Stormwater Management Plan, Town of Florida, NYDate: September 1, 2022Page 3 of 4

The water quality volume requirements are broken down by subcatchment below. Each forebay is required to pretreat a minimum of 10% the provided volume of the wet pond and is calculated as such. Two of the forebays will be managed by an outlet control device routed to the wet pond and the third will be controlled by an overflow spillway directly connected to the pond. Subcatchment P1, which consists of the perimeter of the site and is 98% pervious routes directly offsite, the 0.102 acres of impervious in subcatchment P1 will route northwest to the wetland remediation area. Although the WQv required by P1's impervious runoff will be provided in the total volume of the pond and forebays. The formula used to determine WQv (ac-ft) is calculated as follows:

BMP/Subcatchment	Impervious	A (Total	I (%	Required WQv	Provided WQv	
	Area (Acres)	Area, Acres)	Impervious)	(cu ft)	(cu ft)	
Forebay 1 (3P)	N/A	N/A	N/A	2,180	9,290	
Forebay 2 (2P)	N/A	N/A	N/A	2,180	16,300	
Forebay 3 (4P)	N/A	N/A	N/A	2,180	14,085	
Wet Pond (2P, 3P &	12.474	17.102	73%	47,920	21,790	
4P)						
Offsite (1P)	0.102	4.414	2%	1,180	0	
Total:	12.576	21.516	58%	53,460	61,465	

#### Figure 3: WQv Summary

The total required WQv in the table above is 53,460 cubic feet. This volume is the sum of the required volume for each forebay and the wet pond combined as calculated from each BMP's respective drainage area. This could be calculated from the total area of 21.516 and the overall 58% impervious on site, which would include P1, but the 98% pervious P1 subcatchment drains directly offsite. This calculation would give a less stringent total required WQv of 49,220 cubic feet, thus the more stringent calculation method was used as the required WQv for this site.

The post-construction runoff rates shall not exceed existing conditions in the CPv, Qp, and Qfh events. Ultimately in both the proposed and existing conditions on site, the runoff will flow offsite in the northwest direction. In the proposed condition, the only difference is that the impervious runoff will be routed through the stormwater management forebays and wet pond prior to discharge offsite. Attached to this memorandum is the HydroCAD analysis prepared to ensure the sizing of the stormwater facilities. This breakdown is summarized in Figure 4 below.

Figure 4: Rate	Control	Summary
----------------	---------	---------

Sub-Catchment	CPv (1 year: CFS)	Qp (10 year: CFS)	Qfh (100 year: CFS)
Existing Conditions	18.0	50.4	115.2
Proposed Conditions	11.7	24.5	46.7
Difference	-6.3	-25.9	-68.5



RE: DG Fresh Conceptual Stormwater Management Plan, Town of Florida, NYDate: September 1, 2022Page 4 of 4

We believe that our design meets the intent of the New York State SPDES Permit for stormwater retention, rate control, and water quality treatment. A more detailed stormwater management plan and stormwater pollution prevention plan will be provided in a subsequent design phase. Please direct any questions regarding this report and the design of the project to Marcie Weslock, PE, <u>mweslock@elanlab.com</u>.

Encl: Proposed and Existing Drainage Maps HydroCAD Model Geotechnical Report



cc: Élan File No.: DGC22025





EXISTING DRAINAGE MAP

( )

SCALE IN FEET

# LEGEND



PERVIOUS AREA 21.516 AC

IMPERVIOUS AREA 0 AC

TOTAL 21.516 AC



310 4TH SOUTH, SUITE 1 MINNEAPOLIS, MN 55 p 612.260.7980 www.elanlab f 612.260.7990 www.elanlab





PROPOSED DRAINAGE MAP

 $( \mathbf{f} )$ 

# LEGEND



PERVIOUS AREA 8.940 AC

IMPERVIOUS AREA 12.576 AC

TOTAL 21.516 AC







ngineering | Landscape Architecture | Const e r v i c e



Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1 yr (Cpv)	Type II 24-hr		Default	24.00	1	2.20	2
2	10 yr (Qp)	Type II 24-hr		Default	24.00	1	3.75	2
3	100 yr (Qf)	Type II 24-hr		Default	24.00	1	6.50	2
4	Water Quality (WQv)	Type II 24-hr		Default	24.00	1	1.10	2

# **Rainfall Events Listing**

## Area Listing (selected nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
30.456	80	>75% Grass cover, Good, HSG D (S-1E, S-1P, S-2E, S-2P, S-3E, S-3P, S-4P)
11.740	98	Paved parking, HSG D (S-1P, S-2P, S-3P, S-4P)
0.836	98	Roofs, HSG D (S-2P)
43.032	85	TOTAL AREA

# Soil Listing (selected nodes)

Area	Soil	Subcatchment
(acres)	Group	Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
43.032	HSG D	S-1E, S-1P, S-2E, S-2P, S-3E, S-3P, S-4P
0.000	Other	
43.032		TOTAL AREA

# DGC025\_HydroCAD

0.000

0.000

0.000

0.000

0.000

0.000

0.836

43.032

Prepared by Elan I	Design La	ab, Inc	
HydroCAD® 10.20-2f	s/n 07437	© 2022 HydroCAD	Software Solutions LLC

Printed 8/30/2022 Page 5

S-2P

						-,	
HSG-A	HSG-B	HSG-C	HSG-D	Other	Total	Ground	Subcatchment
 (acres)	(acres)	(acres)	(acres)	(acres)	(acres)	Cover	Numbers
0.000	0.000	0.000	30.456	0.000	30.456	>75% Grass cover, Good	S-1E,
							S-1P,
							S-2E,
							S-2P,
							S-3E,
							S-3P,
							S-4P
0.000	0.000	0.000	11.740	0.000	11.740	Paved parking	S-1P,
							S-2P,
							S-3P,
							S-4P

0.000

0.000

0.836

Roofs

43.032 TOTAL AREA

#### Ground Covers (selected nodes)

			•	0.		,			
 Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	5P	471.00	475.00	38.0	-0.1053	0.010	0.0	18.0	0.0
2	5P	475.00	474.00	38.0	0.0263	0.010	0.0	24.0	0.0
3	6P	480.00	479.00	156.0	0.0064	0.010	0.0	18.0	0.0
4	9P	482.00	477.00	169.0	0.0296	0.010	0.0	18.0	0.0

# Pipe Listing (selected nodes)

DGC025_HydroCAD Prepared by Elan Design Lab, Inc	Type II 24-hr 1	<i>yr (Cpv) Rainfall=2.20"</i> Printed 8/30/2022
HydroCAD® 10.20-2f s/n 07437 © 2022 Hydr	OCAD Software Solutions LLC	Page 7
Time span=0.00 Runoff by SCS T Reach routing by Dyn-Stor-In	-48.00 hrs, dt=0.05 hrs, 961 points x 3 R-20 method, UH=SCS, Weighted-CN d method - Pond routing by Dyn-Stor-	Ind method
Subcatchment S-1E: SUB 1 TO OFFSITE Flow Length=764	Runoff Area=8.472 ac 0.00% Imper V Slope=0.0430 '/' Tc=12.4 min CN=80	vious Runoff Depth=0.69" Runoff=7.88 cfs  0.486 af
Subcatchment S-1P: SUB 1P TO OFFSIT Flow Length=10	E Runoff Area=4.414 ac 2.31% Imper 04' Slope=0.1540 '/' Tc=1.3 min CN=80	vious Runoff Depth=0.69" Runoff=5.92 cfs 0.253 af
Subcatchment S-2E: SUB 2 TO ONSITE Flow Length=1,273	Runoff Area=11.168 ac 0.00% Imper 3' Slope=0.0540 '/' Tc=16.6 min CN=80	vious Runoff Depth=0.69" Runoff=8.94 cfs 0.640 af
Subcatchment S-2P: SUB 2P TO FOREB Flow Length=1,620'	<b>AY</b> Runoff Area=9.583 ac 70.13% Imper Slope=0.0360 '/' Tc=15.2 min CN=93	vious Runoff Depth=1.50" Runoff=18.06 cfs 1.197 af
Subcatchment S-3E: SUB 3 TO OFFSITE Flow Length=63	Runoff Area=1.876 ac 0.00% Imper 33' Slope=0.0660 '/' Tc=8.6 min CN=80	vious Runoff Depth=0.69" Runoff=2.01 cfs 0.108 af
Subcatchment S-3P: SUB 3P TO FOREB Flow Length=1,531	<b>AY</b> Runoff Area=3.707 ac 58.86% Imper ' Slope=0.0350 '/' Tc=16.1 min CN=91	vious Runoff Depth=1.34" Runoff=6.14 cfs 0.414 af
Subcatchment S-4P: SUB 4P TO FOREB Flow Length=520	<b>AY</b> Runoff Area=3.812 ac 93.68% Imper )' Slope=0.0560 '/' Tc=4.0 min CN=97	vious Runoff Depth=1.87" Runoff=11.95 cfs 0.593 af
Reach 1R: OFFSITE	C	Inflow=17.99 cfs 1.234 af Dutflow=17.99 cfs 1.234 af
Reach 2R: ONSITE WETLAND		Inflow=8.94 cfs 0.640 af Outflow=8.94 cfs 0.640 af
Reach 7R: OFFSITE	C	Inflow=11.74 cfs 2.894 af Dutflow=11.74 cfs 2.894 af
Reach 8R: ONSITE WETLAND	C	Inflow=10.32 cfs 2.641 af Dutflow=10.32 cfs 2.641 af
Pond 5P: FOREBAY 1 & WET POND	Peak Elev=477.22' Storage=53,498 cf	Inflow=29.83 cfs 2.642 af Dutflow=10.32 cfs 2.641 af
Pond 6P: FOREBAY 2 Discarded=0.00 cf	Peak Elev=488.00' Storage=16,298 cf s 0.000 af Primary=21.75 cfs 1.635 af C	Inflow=18.06 cfs
Pond 9P: FOREBAY 3	Peak Elev=488.60' Storage=17,717 cf	Inflow=11.95 cfs 0.593 af Outflow=9.59 cfs 0.593 af
Total Runoff Area = 43.032	ac Runoff Volume = 3.691 af Aver	age Runoff Depth = 1.03"

70.78% Pervious = 30.456 ac 29.22% Impervious = 12.576 ac

## Summary for Subcatchment S-1E: SUB 1 TO OFFSITE WETLAND

Runoff = 7.88 cfs @ 12.05 hrs, Volume= Routed to Reach 1R : OFFSITE 0.486 af, Depth= 0.69"

Area (a	c) C	N De	scription			
8.47	72 8	so >75	5% Grass co	over, Good,	, HSG D	
8.47	72	100	.00% Pervi	ous Area		
Tc L (min)	.ength (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
12.4	764	0.0430	1.03		Lag/CN Method,	

#### Summary for Subcatchment S-1P: SUB 1P TO OFFSITE

[49] Hint: Tc<2dt may require smaller dt

Runoff = 5.92 cfs @ 11.92 hrs, Volume= Routed to Reach 7R : OFFSITE 0.253 af, Depth= 0.69"

Area (	(ac)	CN	Desc	ription				
4.3	312	80	>75%	6 Grass co	over, Good,	, HSG D		
0.1	102	98	Pave	ed parking,	HSG D			
4.4	414	80	Weig	hted Aver	age			
4.3	312	97.69% Pervious Area						
0.1	102		2.31	% Impervio	ous Area			
Тс	l enath	, ,	Slone	Velocity	Canacity	Description		
(min)	(feet		(ft/ft)	(ft/sec)	(cfs)	Description		
1 3	10/	<u>,</u> 0	15/0	1 31	(010)	Lag/CN Method		
1.5	104	· U.	1040	1.51				

# Summary for Subcatchment S-2E: SUB 2 TO ONSITE WETLAND

Runoff = 8.94 cfs @ 12.10 hrs, Volume= Routed to Reach 2R : ONSITE WETLAND 0.640 af, Depth= 0.69"

Area (	(ac) (	CN	Desc	ription					
11.	168	80	>75%	6 Grass co	ver, Good,	, HSG D			
11.	11.168 100.00% Pervious Area								
Tc (min)	Length (feet)	S	lope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description			
16.6	1,273	0.0	0540	1.28		Lag/CN Method,			

# Summary for Subcatchment S-2P: SUB 2P TO FOREBAY 2

Runoff = 18.06 cfs @ 12.07 hrs, Volume= Routed to Pond 6P : FOREBAY 2 1.197 af, Depth= 1.50"

Area (	ac)	CN	Desc	ription					
2.8	362	80	>75%	6 Grass co	over, Good,	HSG D			
5.2	252	98	Pave	d parking,	HSG D				
0.8	336	98	Roof	s, HSG D					
0.6	633	98	Pave	d parking,	HSG D				
9.5	583	93	Weig	Weighted Average					
2.8	362		29.87	7% Pervio	us Area				
6.7	721		70.13	3% Imperv	vious Area				
Tc	Length	1 8	Slope	Velocity	Capacity	Description			
(min)	(feet)	)	(ft/ft)	(ft/sec)	(cfs)				
15.2	1,620	0.	0360	1.78		Lag/CN Method,			

# Summary for Subcatchment S-3E: SUB 3 TO OFFSITE

Runoff = 2.01 cfs @ 12.01 hrs, Volume= 0.7 Routed to Reach 1R : OFFSITE

0.108 af, Depth= 0.69"

Area (a	ac) C	N I	Desc	ription			
1.8	876 8	80 ;	>75%	6 Grass co	over, Good,	, HSG D	
1.8	876		100.0	0% Pervi	ous Area		
Tc (min)	Length (feet)	Slo (f	ope t/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
8.6	633	0.06	660	1.23		Lag/CN Method,	

# Summary for Subcatchment S-3P: SUB 3P TO FOREBAY 1

Runoff = 6.14 cfs @ 12.08 hrs, Volume= Routed to Pond 5P : FOREBAY 1 & WET POND 0.414 af, Depth= 1.34"

Area (a	ac) C	N	Desc	ription					
1.5	25	80	>75%	6 Grass co	over, Good,	, HSG D			
2.1	82	98	Pave	d parking,	HSG D				
3.7	07 9	91	Weig	hted Aver	age				
1.5	25		41.14% Pervious Area						
2.1	82		58.86	3% Imperv	rious Area				
Tc (min)	Length (feet)	S (	lope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description			
16.1	1,531	0.0	)350	1.59		Lag/CN Method,			

#### Summary for Subcatchment S-4P: SUB 4P TO FOREBAY 3

[49] Hint: Tc<2dt may require smaller dt

Runoff = 11.95 cfs @ 11.94 hrs, Volume= Routed to Pond 9P : FOREBAY 3 0.593 af, Depth= 1.87"

Area	(ac)	CN	Desc	Description						
0.	241	80	>75%	6 Grass co	over, Good,	, HSG D				
3.	571	98	Pave	d parking,	HSG D					
3.	812	97	Weig	hted Aver	age					
0.	241		6.32	% Perviou	s Area					
3.	571		93.68	3% Imperv	vious Area					
Тс	l enati	ר ה ו	Slope	Velocity	Capacity	Description				
(min)	(feet	)	(ft/ft)	(ft/sec)	(cfs)					
4.0	520	) 0.	0560	2.17		Lag/CN Method,				

# Summary for Reach 1R: OFFSITE

[40] Hint: Not Described (Outflow=Inflow)

Inflow Ar	rea =	21.516 ac,	0.00% Impervious,	Inflow Depth = $0.6$	69" for 1 yr (Cpv) event
Inflow	=	17.99 cfs @	12.07 hrs, Volume	= 1.234 af	
Outflow	=	17.99 cfs @	12.07 hrs, Volume	= 1.234 af,	Atten= 0%, Lag= 0.0 min

# Summary for Reach 2R: ONSITE WETLAND

[40] Hint: Not Described (Outflow=Inflow)

 Inflow Area =
 11.168 ac, 0.00% Impervious, Inflow Depth = 0.69" for 1 yr (Cpv) event

 Inflow =
 8.94 cfs @
 12.10 hrs, Volume=
 0.640 af

 Outflow =
 8.94 cfs @
 12.10 hrs, Volume=
 0.640 af, Atten= 0%, Lag= 0.0 min

 Routed to Reach 1R : OFFSITE
 0.640 af, Atten= 0%, Lag= 0.0 min

## Summary for Reach 7R: OFFSITE

[40] Hint: Not Described (Outflow=Inflow)

Inflow Are	ea =	21.516 ac, 5	58.45% Impe	ervious,	Inflow De	epth = 1.	61" for 1 y	vr (Cpv) event
Inflow	=	11.74 cfs @	11.94 hrs,	Volume	=	2.894 af		
Outflow	=	11.74 cfs @	11.94 hrs,	Volume	=	2.894 af,	Atten= 0%,	Lag= 0.0 min

# Summary for Reach 8R: ONSITE WETLAND

[40] Hint: Not Described (Outflow=Inflow)

 Inflow Area =
 17.102 ac, 72.94% Impervious, Inflow Depth =
 1.85" for 1 yr (Cpv) event

 Inflow =
 10.32 cfs @
 12.31 hrs, Volume=
 2.641 af

 Outflow =
 10.32 cfs @
 12.31 hrs, Volume=
 2.641 af

 Routed to Reach 7R : OFFSITE
 0
 0
 0

# Summary for Pond 5P: FOREBAY 1 & WET POND

Inflow Area	a =	17.102 ac, 7	2.94% Imp	ervious,	Inflow Depth =	1.85"	for 1 yr (	Cpv) event
Inflow	=	29.83 cfs @	12.02 hrs,	Volume=	= 2.642	af		
Outflow	=	10.32 cfs @	12.31 hrs,	Volume=	= 2.641	af, Atte	en= 65%,	Lag= 17.3 min
Primary	=	10.32 cfs @	12.31 hrs,	Volume=	= 2.641	af		-
Routed	to Read	ch 8R : ONSIT	E WETLAN	1D				

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs / 3 Starting Elev= 475.00' Surf.Area= 6,000 sf Storage= 22,390 cf Peak Elev= 477.22' @ 12.31 hrs Surf.Area= 23,524 sf Storage= 53,498 cf (31,108 cf above start)

Plug-Flow detention time= 305.8 min calculated for 2.080 af (79% of inflow) Center-of-Mass det. time= 49.9 min (724.7 - 674.8)

Volume	Inve	ert Avail.Sto	orage Storage	Description	
#1	468.0	00' 171,7	28 cf Custom	n Stage Data (Pr	i <b>smatic)</b> Listed below (Recalc)
Elevatio	on	Surf.Area	Inc.Store	Cum.Store	
(fee	et)	(sq-ft)	(cubic-feet)	(cubic-feet)	
468.0	00	1,610	0	0	
469.0	00	2,000	1,805	1,805	
470.0	00	2,410	2,205	4,010	
471.0	00	2,840	2,625	6,635	
472.0	00	3,290	3,065	9,700	
473.0	00	3,770	3,530	13,230	
474.0	00	4,275	4,023	17,253	
475.0	00	6,000	5,138	22,390	
476.0	00	11,675	8,838	31,228	
477.0	00	22,610	17,143	48,370	
478.0	00	26,720	24,665	73,035	
479.0	00	30,590	28,655	101,690	
480.0	00	35,215	32,903	134,593	
481.0	00	39,055	37,135	171,728	
Device	Routing	Invert	Outlet Device	S	
#1	Device 4	480.00'	48.0" Horiz	Orifice/Grate C	= 0.600
			l imited to we	ir flow at low hea	ds
#2	Device 4	478 00'	3.0' long x 0.	75' rise Sharp-C	rested Rectangular Weir
			2 End Contra	ction(s)	
#3	Device 4	475.00'	18.0" Round	d Culvert	
			L= 38.0' RC	P. end-section co	onforming to fill. Ke= 0.500
			Inlet / Outlet I	nvert= 471.00' /	475.00' S= -0.1053 '/' Cc= 0.900
			n= 0.010 PV	C. smooth interio	r. Flow Area= 1.77 sf
#4	Primarv	475.00'	24.0" Round	d Culvert	,
	, <b>,</b>		L= 38.0' RC	P. end-section co	onforming to fill. Ke= 0.500
			Inlet / Outlet I	nvert= 475.00' /	474.00' S= 0.0263 '/' Cc= 0.900
			n= 0.010 PV	C. smooth interio	r. Flow Area= 3.14 sf
				,	, -

**Primary OutFlow** Max=10.32 cfs @ 12.31 hrs HW=477.22' TW=0.00' (Dynamic Tailwater)

-4=Culvert (Passes 10.32 cfs of 16.71 cfs potential flow)

1=Orifice/Grate (Controls 0.00 cfs) 2=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)

-3=Culvert (Inlet Controls 10.32 cfs @ 5.84 fps)

#### Summary for Pond 6P: FOREBAY 2

[44] Hint: Outlet device #2 is below defined storage[87] Warning: Oscillations may require smaller dt or Finer Routing (severity=117)

Inflow Area	a =	9.583 ac, 7	0.13% Impervious,	Inflow Depth = 1	1.50" for 1 yr (Cpv) event
Inflow	=	18.06 cfs @	12.07 hrs, Volume	= 1.197 a	f
Outflow	=	21.75 cfs @	0.00 hrs, Volume	= 1.635 a	f, Atten= 0%, Lag= 0.0 min
Discarded	=	0.00 cfs @	0.00 hrs, Volume	= 0.000 a	f
Primary	=	21.75 cfs @	0.00 hrs, Volume	= 1.635 a	f
Routed	to Pone	d 5P : FOREB	AY 1 & WET POND		

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs / 3 Starting Elev= 488.00' Surf.Area= 6,200 sf Storage= 16,298 cf Peak Elev= 488.00' @ 0.00 hrs Surf.Area= 6,200 sf Storage= 16,298 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow) Center-of-Mass det. time= (not calculated: outflow precedes inflow)

Volume	Inver	t Avail.Sto	orage	Storage	Description	
#1	484.00	' 40,6	73 cf	Custom	Stage Data (Pr	ismatic)Listed below (Recalc)
Elevatio (feet	n S t)	urf.Area (sq-ft)	Inc.s (cubic-	Store feet)	Cum.Store (cubic-feet)	
484.0	0	2,205		0	0	
485.0	0	3,040	2	2,623	2,623	
486.0	0	4,000	3	3,520	6,143	
487.0	0	5,055	4	1,528	10,670	
488.0	0	6,200	5	5,628	16,298	
489.0	0	7,445	6	5,823	23,120	
490.0	0	8,770	8	8,108	31,228	
491.0	0	10,120	ç	9,445	40,673	
Device	Routing	Invert	Outlet	t Device	S	
#1	Discarded	488.00'	<b>32.0"</b> L imite	Horiz. C	<b>Drifice/Grate</b> C	= 0.600 ids
#2	Primary	480.00'	<b>18.0"</b> L= 15 Inlet / n= 0.0	Round 6.0' RC Outlet I 010 PV(	<b>Culvert</b> CP, end-section ( nvert= 480.00' / C, smooth interic	conforming to fill, Ke= 0.500 479.00' S= 0.0064 '/' Cc= 0.900 or, Flow Area= 1.77 sf

**Discarded OutFlow** Max=0.00 cfs @ 0.00 hrs HW=488.00' (Free Discharge) **1=Orifice/Grate** (Controls 0.00 cfs)

Primary OutFlow Max=21.75 cfs @ 0.00 hrs HW=488.00' TW=475.28' (Dynamic Tailwater) ←2=Culvert (Barrel Controls 21.75 cfs @ 12.31 fps)

## Summary for Pond 9P: FOREBAY 3

Inflow Are	ea =	3.812 ac, 9	3.68% Impervious,	Inflow Depth =	1.87" for	r 1 yr (Cpv) event
Inflow	=	11.95 cfs @	11.94 hrs, Volume	= 0.593 a	af	
Outflow	=	9.59 cfs @	11.99 hrs, Volume	= 0.593 a	af, Atten=	20%, Lag= 2.9 min
Primary	=	9.59 cfs @	11.99 hrs, Volume	= 0.593 a	af	
Route	d to Pon	d 5P : FOREB	AY 1 & WET POND			

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs / 3 Starting Elev= 488.00' Surf.Area= 5,680 sf Storage= 14,085 cf Peak Elev= 488.60' @ 11.99 hrs Surf.Area= 6,390 sf Storage= 17,717 cf (3,632 cf above start)

Plug-Flow detention time= 273.8 min calculated for 0.270 af (45% of inflow) Center-of-Mass det. time= 14.8 min (785.7 - 770.9)

Volume	Inve	ert Avail.	Storage	Storage	Description				
#1	484.0	)0' 2	7,833 cf	Custom	Stage Data (Pi	rismatic)Listed below (Recalc)			
Elevatio	on	Surf.Area	Inc	Store	Cum.Store				
(fee	et)	(sq-ft)	(cubio	c-feet)	(cubic-feet)				
484.0	00	1,510		0	0				
485.0	00	2,445		1,978	1,978				
486.0	00	3,490		2,968	4,945				
487.0	00	4,555		4,023	8,968				
488.0	00	5,680		5,118	14,085				
489.0	00	6,860		6,270	20,355				
490.0	00	8,095		7,478	27,833				
Device	Routing	Inv	ert Outle	et Device	S				
#1	Device 2	488.0	00' <b>24.0</b> '	' Horiz. (	Drifice/Grate	C= 0.600			
			Limit	ed to wei	r flow at low hea	ads			
#2	Primary	482.0	00' <b>18.0</b> '	' Round	Culvert				
			L= 10	69.0' RC	CP, end-section	conforming to fill, Ke= 0.500			
			Inlet	Inlet / Outlet Invert= 482.00' / 477.00' S= 0.0296 '/' Cc= 0.900					
			n= 0.	010 PV	C, smooth interio	or, Flow Area= 1.77 sf			

**Primary OutFlow** Max=9.40 cfs @ 11.99 hrs HW=488.59' TW=476.49' (Dynamic Tailwater) **2=Culvert** (Passes 9.40 cfs of 20.57 cfs potential flow)

**1=Orifice/Grate** (Weir Controls 9.40 cfs @ 2.52 fps)

DGC025_HydroCAD Prepared by Elan Design Lab, Inc	Type II 24-hr 1	0 yr (Qp) Rainfall=3.75" Printed 8/30/2022
HydroCAD® 10.20-2f s/n 07437 © 2022 Hydr	roCAD Software Solutions LLC	Page 23
Time span=0.00 Runoff by SCS T Reach routing by Dyn-Stor-In	-48.00 hrs, dt=0.05 hrs, 961 points x 3 R-20 method, UH=SCS, Weighted-CN id method - Pond routing by Dyn-Stor	l -Ind method
Subcatchment S-1E: SUB 1 TO OFFSITE Flow Length=764'	Runoff Area=8.472 ac 0.00% Impe Slope=0.0430 '/' Tc=12.4 min CN=80	ervious Runoff Depth=1.84" Runoff=21.82 cfs 1.297 af
Subcatchment S-1P: SUB 1P TO OFFSIT Flow Length=104	E Runoff Area=4.414 ac 2.31% Impe 4' Slope=0.1540 '/' Tc=1.3 min CN=80	ervious Runoff Depth=1.84" Runoff=15.92 cfs 0.676 af
Subcatchment S-2E: SUB 2 TO ONSITE Flow Length=1,273'	Runoff Area=11.168 ac 0.00% Impe Slope=0.0540 '/' Tc=16.6 min CN=80	ervious Runoff Depth=1.84" Runoff=25.06 cfs 1.710 af
Subcatchment S-2P: SUB 2P TO FOREB Flow Length=1,620'	AY Runoff Area=9.583 ac 70.13% Impe Slope=0.0360 '/' Tc=15.2 min CN=93	ervious Runoff Depth=2.98" Runoff=34.75 cfs 2.377 af
Subcatchment S-3E: SUB 3 TO OFFSITE Flow Length=63	Runoff Area=1.876 ac 0.00% Impe 33' Slope=0.0660 '/' Tc=8.6 min CN=8	ervious Runoff Depth=1.84" D Runoff=5.52 cfs 0.287 af
Subcatchment S-3P: SUB 3P TO FOREB Flow Length=1,531'	AY Runoff Area=3.707 ac 58.86% Impe Slope=0.0350 '/' Tc=16.1 min CN=91	ervious Runoff Depth=2.78" Runoff=12.42 cfs 0.858 af
Subcatchment S-4P: SUB 4P TO FOREB Flow Length=520	AY Runoff Area=3.812 ac 93.68% Impe )' Slope=0.0560 '/' Tc=4.0 min CN=97	ervious Runoff Depth=3.40" Runoff=20.97 cfs 1.081 af
Reach 1R: OFFSITE		Inflow=50.38 cfs 3.294 af Outflow=50.38 cfs 3.294 af
Reach 2R: ONSITE WETLAND		Inflow=25.06 cfs 1.710 af Outflow=25.06 cfs 1.710 af
Reach 7R: OFFSITE		Inflow=24.47 cfs 5.445 af Outflow=24.47 cfs 5.445 af
Reach 8R: ONSITE WETLAND		Inflow=17.11 cfs 4.769 af Outflow=17.11 cfs 4.769 af
Pond 5P: FOREBAY 1 & WET POND	Peak Elev=478.47' Storage=86,052 c	f Inflow=44.78 cfs 4.771 af Outflow=17.11 cfs 4.769 af
Pond 6P: FOREBAY 2 Discarded=0.00 cf	Peak Elev=488.00' Storage=16,298 c s 0.000 af Primary=21.75 cfs 2.832 af	f Inflow=34.75 cfs 2.377 af Outflow=21.75 cfs 2.832 af
Pond 9P: FOREBAY 3	Peak Elev=488.98' Storage=20,207 c	f Inflow=20.97 cfs 1.081 af Outflow=14.96 cfs 1.081 af
Total Runoff Area = 43.032	ac Runoff Volume = 8.286 af Ave	rage Runoff Depth = 2.31"

70.78% Pervious = 30.456 ac 29.22% Impervious = 12.576 ac

## Summary for Subcatchment S-1E: SUB 1 TO OFFSITE WETLAND

Runoff = 21.82 cfs @ 12.05 hrs, Volume= Routed to Reach 1R : OFFSITE 1.297 af, Depth= 1.84"

Area (	(ac)	CN	Desc	ription			
8.4	472	80	>75%	6 Grass co	over, Good,	, HSG D	
8.4	472		100.0	00% Pervi	ous Area		
Tc (min)	Length (feet	n 5 )	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
12.4	764	1 0.	0430	1.03		Lag/CN Method,	

## Summary for Subcatchment S-1P: SUB 1P TO OFFSITE

[49] Hint: Tc<2dt may require smaller dt

Runoff = 15.92 cfs @ 11.91 hrs, Volume= Routed to Reach 7R : OFFSITE 0.676 af, Depth= 1.84"

Area	(ac)	CN	Desc	cription		
4.	312	80	>75%	6 Grass co	over, Good,	, HSG D
0.	102	98	Pave	ed parking,	HSG D	
4.	414	80	Weig	hted Aver	age	
4.312 97.69% Pervious Area						
0.	0.102 2.31% Impervious Area					
т.	1	. (	01	Mala altri	<b>O</b> = = = = : <b>t</b> = :	Description
IC	Lengti	า เ	Slope	velocity	Capacity	Description
(min)	(feet	)	(ft/ft)	(ft/sec)	(cfs)	
1.3	104	4 0.	.1540	1.31		Lag/CN Method,

# Summary for Subcatchment S-2E: SUB 2 TO ONSITE WETLAND

Runoff = 25.06 cfs @ 12.09 hrs, Volume= Routed to Reach 2R : ONSITE WETLAND 1.710 af, Depth= 1.84"

Area	(ac)	CN	Desc	ription			
11.	168	80	>75%	6 Grass co	over, Good,	, HSG D	
11.	168		100.0	0% Pervi	ous Area		
Tc (min)	Length (feet)	S	lope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
16.6	1,273	0.0	0540	1.28		Lag/CN Method,	
# Summary for Subcatchment S-2P: SUB 2P TO FOREBAY 2

Runoff = 34.75 cfs @ 12.07 hrs, Volume= Routed to Pond 6P : FOREBAY 2 2.377 af, Depth= 2.98"

Area (ac	;) C	N Des	cription						
2.862	28	0 >75	% Grass co	over, Good	, HSG D				
5.252	29	8 Pav	ed parking	HSG D					
0.836	69	8 Roo	Roofs, HSG D						
0.63	3 9	8 Pav	ed parking	HSG D					
9.583	3 9	3 We	ghted Aver	age					
2.862	2.862 29.87% Pervious Area								
6.72 <sup>2</sup>	1	70.	13% Imperv	vious Area					
Tc Le	ength	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
15.2 1	1,620	0.0360	1.78		Lag/CN Method,				

# Summary for Subcatchment S-3E: SUB 3 TO OFFSITE

Runoff = 5.52 cfs @ 12.00 hrs, Volume= 0.287 af, Depth= 1.84" Routed to Reach 1R : OFFSITE

Area (a	c) C	N Des	cription			
1.87	76 8	80 >75	% Grass co	over, Good,	HSG D	
1.87	76	100	.00% Pervi	ous Area		
Tc L (min)	ength. (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
8.6	633	0.0660	1.23		Lag/CN Method,	

# Summary for Subcatchment S-3P: SUB 3P TO FOREBAY 1

Runoff = 12.42 cfs @ 12.08 hrs, Volume= Routed to Pond 5P : FOREBAY 1 & WET POND 0.858 af, Depth= 2.78"

Area (a	ac) C	N	Desc	ription							
1.5	25	80	>75%	>75% Grass cover, Good, HSG D							
2.1	82	98	Pave	Paved parking, HSG D							
3.7	07 9	91	Weig	hted Aver	age						
1.5	1.525 41.14% Pervious Area										
2.1	82		58.86	3% Imperv	rious Area						
Tc (min)	Length (feet)	S (	lope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
16.1	1,531	0.0	)350	1.59		Lag/CN Method,					

#### Summary for Subcatchment S-4P: SUB 4P TO FOREBAY 3

[49] Hint: Tc<2dt may require smaller dt

Runoff = 20.97 cfs @ 11.94 hrs, Volume= 1.081 af, Depth= 3.40" Routed to Pond 9P : FOREBAY 3

Area	(ac)	CN	Desc	ription							
0.	241	80	>75%	·75% Grass cover, Good, HSG D							
3.	571	98	Pave	Paved parking, HSG D							
3.	812	97	Weig	hted Aver	age						
0.1	0.241 6.32% Pervious Area										
3.571 93.68% Impervious Area											
Tc (min)	Length (feet)	1 S	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
4.0	520	0.0	0560	2.17		Lag/CN Method,					

# Summary for Reach 1R: OFFSITE

[40] Hint: Not Described (Outflow=Inflow)

Inflow A	Area =	21.516 a	c, 0.00% Imp	pervious, In	flow Depth = 1	1.84" for 10	yr (Qp) event
Inflow	=	50.38 cfs	@ 12.06 hrs,	Volume=	3.294 a	f	
Outflow	/ =	50.38 cfs	@ 12.06 hrs,	Volume=	3.294 a	f, Atten= 0%,	Lag= 0.0 min

# Summary for Reach 2R: ONSITE WETLAND

[40] Hint: Not Described (Outflow=Inflow)

 Inflow Area =
 11.168 ac, 0.00% Impervious, Inflow Depth =
 1.84" for 10 yr (Qp) event

 Inflow =
 25.06 cfs @
 12.09 hrs, Volume=
 1.710 af

 Outflow =
 25.06 cfs @
 12.09 hrs, Volume=
 1.710 af, Atten= 0%, Lag= 0.0 min

 Routed to Reach 1R : OFFSITE
 0
 0

# Summary for Reach 7R: OFFSITE

[40] Hint: Not Described (Outflow=Inflow)

Inflow Are	a =	21.516 ac, 5	58.45% Impe	ervious,	Inflow Depth	= 3.0	04" for 10	yr (Qp) event
Inflow	=	24.47 cfs @	11.92 hrs,	Volume	= 5.44	15 af		
Outflow	=	24.47 cfs @	11.92 hrs,	Volume	= 5.44	15 af,	Atten= 0%,	Lag= 0.0 min

# Summary for Reach 8R: ONSITE WETLAND

[40] Hint: Not Described (Outflow=Inflow)

 Inflow Area =
 17.102 ac, 72.94% Impervious, Inflow Depth =
 3.35" for 10 yr (Qp) event

 Inflow =
 17.11 cfs @
 12.54 hrs, Volume=
 4.769 af

 Outflow =
 17.11 cfs @
 12.54 hrs, Volume=
 4.769 af, Atten= 0%, Lag= 0.0 min

 Routed to Reach 7R : OFFSITE
 0
 0
 0

# Summary for Pond 5P: FOREBAY 1 & WET POND

Inflow Area	a =	17.102 ac, 7	2.94% Impe	ervious, Inf	low Depth = 🔅	3.35"	for 10 yr	(Qp) event	
Inflow	=	44.78 cfs @	12.05 hrs,	Volume=	4.771 a	af	-	,	
Outflow	=	17.11 cfs @	12.54 hrs,	Volume=	4.769 a	af, Atter	n= 62%,	Lag= 29.2 mi	n
Primary	=	17.11 cfs @	12.54 hrs,	Volume=	4.769 a	af		-	
Routed	to Rea	ch 8R : ONSI	E WETLAN	ID					

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs / 3 Starting Elev= 475.00' Surf.Area= 6,000 sf Storage= 22,390 cf Peak Elev= 478.47' @ 12.54 hrs Surf.Area= 28,543 sf Storage= 86,052 cf (63,662 cf above start)

Plug-Flow detention time= 202.2 min calculated for 4.211 af (88% of inflow) Center-of-Mass det. time= 52.8 min (771.2 - 718.4)

. . .

#1       468.00'       171,728 cf       Custom Stage Data (Prismatic)Listed below (Recalc)         Elevation       Surf.Area       Inc.Store       Cum.Store         (feet)       (sq-ft)       (cubic-feet)       (cubic-feet)	
ElevationSurf.AreaInc.StoreCum.Store(feet)(sq-ft)(cubic-feet)(cubic-feet)	
(feet) (sq-ft) (cubic-feet) (cubic-feet)	
468.00 1,610 0 0	
469.00 2,000 1,805 1,805	
470.00 2,410 2,205 4,010	
471.00 2,840 2,625 6,635	
472.00 3,290 3,065 9,700	
473.00 3,770 3,530 13,230	
474.00 4,275 4,023 17,253	
475.00 6,000 5,138 22,390	
476.00 11,675 8,838 31,228	
477.00 22,610 17,143 48,370	
478.00 26,720 24,665 73,035	
479.00 30,590 28,655 101,690	
480.00 35,215 32,903 134,593	
481.00 39,055 37,135 171,728	
Device Routing Invert Outlet Devices	
#1 Device 4 480.00' <b>48.0" Horiz. Orifice/Grate</b> C= 0.600	
Limited to weir flow at low heads	
#2 Device 4 478.00' 3.0' long x 0.75' rise Sharp-Crested Rectangular Weir	
2 End Contraction(s)	
#3 Device 4 475.00' 18.0" Round Culvert	
L= 38.0' RCP, end-section conforming to fill, Ke= 0.500	
Inlet / Outlet Invert= 471.00' / 475.00' S= -0.1053 '/' Cc= 0.90	)
n= 0.010 PVC, smooth interior, Flow Area= 1.77 sf	
#4 Primary 475.00' <b>24.0" Round Culvert</b>	
L= 38.0' RCP, end-section conforming to fill, Ke= 0.500	
Inlet / Outlet Invert= 475.00' / 474.00' S= 0.0263 '/' Cc= 0.900	
n= 0.010 PVC, smooth interior, Flow Area= 3.14 sf	

**Primary OutFlow** Max=17.06 cfs @ 12.54 hrs HW=478.47' TW=0.00' (Dynamic Tailwater)

-**4=Culvert** (Passes 17.06 cfs of 23.76 cfs potential flow)

**1=Orifice/Grate** (Controls 0.00 cfs) **2=Sharp-Crested Rectangular Weir** (Weir Controls 3.03 cfs @ 2.23 fps)

-3=Culvert (Inlet Controls 14.03 cfs @ 7.94 fps)

### Summary for Pond 6P: FOREBAY 2

[44] Hint: Outlet device #2 is below defined storage[87] Warning: Oscillations may require smaller dt or Finer Routing (severity=116)

Inflow Area	ı =	9.583 ac, 7	0.13% Impervious,	Inflow Depth =	2.98" for	r 10 yr (Qp) event
Inflow	=	34.75 cfs @	12.07 hrs, Volume	= 2.377	af	
Outflow	=	21.75 cfs @	0.00 hrs, Volume	= 2.832	af, Atten=	37%, Lag= 0.0 min
Discarded	=	0.00 cfs @	0.00 hrs, Volume	= 0.000	af	-
Primary	=	21.75 cfs @	0.00 hrs, Volume	= 2.832	af	
Routed	to Pone	d 5P : FORĔB	AY 1 & WET POND			

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs / 3 Starting Elev= 488.00' Surf.Area= 6,200 sf Storage= 16,298 cf Peak Elev= 488.00' @ 0.00 hrs Surf.Area= 6,200 sf Storage= 16,298 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow) Center-of-Mass det. time= (not calculated: outflow precedes inflow)

Volume	Invert	: Avail.Sto	age Storage Description					
#1	484.00	40,6	73 cf <b>Cus</b> t	om Stage Data (Pris	matic)Listed below (Recalc)			
Elevatio	n S	urf.Area	Inc.Store	Cum.Store				
(tee	t)	(sq-ft)	(cubic-feet)	(cubic-feet)				
484.0	0	2,205	C	0				
485.0	0	3,040	2,623	2,623				
486.0	0	4,000	3,520	6,143				
487.0	0	5,055	4,528	10,670				
488.0	0	6,200	5,628	16,298				
489.0	0	7,445	6,823	23,120				
490.0	0	8,770	8,108	31,228				
491.0	0	10,120	9,445	40,673				
Device	Routing	Invert	Outlet Dev	vices				
#1	Discarded	488.00'	32.0" Hor	z. Orifice/Grate C=	0.600			
#2	Primary	480.00'	<b>18.0" Round Culvert</b> L= 156.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 480.00' / 479.00' S= 0.0064 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 1.77 sf					

**Discarded OutFlow** Max=0.00 cfs @ 0.00 hrs HW=488.00' (Free Discharge) **1=Orifice/Grate** (Controls 0.00 cfs)

Primary OutFlow Max=21.75 cfs @ 0.00 hrs HW=488.00' TW=475.28' (Dynamic Tailwater) ←2=Culvert (Barrel Controls 21.75 cfs @ 12.31 fps)

# Summary for Pond 9P: FOREBAY 3

Inflow Area	a =	3.812 ac, 9	3.68% Impe	ervious, I	nflow Depth =	3.40	)" for	10 yr	(Qp) event
Inflow	=	20.97 cfs @	11.94 hrs,	Volume=	1.081	af		-	
Outflow	=	14.96 cfs @	12.00 hrs,	Volume=	1.081	af, /	Atten=	29%,	Lag= 3.5 min
Primary	=	14.96 cfs @	12.00 hrs,	Volume=	1.081	af			-
Routed	to Pond	5P : FOREB	AY 1 & WE	F POND					

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs / 3 Starting Elev= 488.00' Surf.Area= 5,680 sf Storage= 14,085 cf Peak Elev= 488.98' @ 12.00 hrs Surf.Area= 6,834 sf Storage= 20,207 cf (6,122 cf above start)

Plug-Flow detention time= 181.2 min calculated for 0.757 af (70% of inflow) Center-of-Mass det. time= 12.6 min (769.1 - 756.5)

Volume	Inve	ert Avail.	Storage	Storage	Description	
#1	484.0	00' 27	7,833 cf	Custom	Stage Data (Pi	r <b>ismatic)</b> Listed below (Recalc)
Elevatio	on	Surf.Area	Inc	Store	Cum.Store	
(fee	et)	(sq-ft)	(cubic	-feet)	(cubic-feet)	
484.0	00	1,510		0	0	
485.0	00	2,445		1,978	1,978	
486.0	00	3,490		2,968	4,945	
487.0	00	4,555		4,023	8,968	
488.0	00	5,680		5,118	14,085	
489.0	00	6,860		6,270	20,355	
490.0	00	8,095		7,478	27,833	
Device	Routing	Inve	ert Outle	t Device	S	
#1	Device 2	488.0	0' <b>24.0'</b>	' Horiz. (	Drifice/Grate	C= 0.600
			Limit	ed to wei	r flow at low hea	ads
#2	Primary	482.0	0' <b>18.0'</b>	' Round	Culvert	
			L= 10	69.0' RC	CP, end-section	conforming to fill, Ke= 0.500
			Inlet	/ Outlet I	nvert= 482.00' /	477.00' S= 0.0296 '/' Cc= 0.900
			n= 0.	010 PV	, smooth interio	or, Flow Area= 1.77 st

**Primary OutFlow** Max=14.95 cfs @ 12.00 hrs HW=488.98' TW=477.18' (Dynamic Tailwater) **2=Culvert** (Passes 14.95 cfs of 21.23 cfs potential flow)

**1=Orifice/Grate** (Orifice Controls 14.95 cfs @ 4.76 fps)

DGC025_HydroCAD	7777 Type II 24-hr 100 yr (Qf) Rainfall=6.50
Prepared by Elan Design Lab, Inc	Printed 8/30/2022
HydroCAD® 10.20-2f s/n 07437 © 2022 Hydro	CAD Software Solutions LLC Page 39
Time span=0.00-4	48.00 hrs, dt=0.05 hrs, 961 points x 3
Runoff by SCS TR	R-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind	I method . Pond routing by Dyn-Stor-Ind method
Subcatchment S-1E: SUB 1 TO OFFSITE	Runoff Area=8.472 ac 0.00% Impervious Runoff Depth=4.24"
Flow Length=764'	Slope=0.0430 '/' Tc=12.4 min CN=80 Runoff=49.58 cfs 2.990 af
Subcatchment S-1P: SUB 1P TO OFFSITE	Runoff Area=4.414 ac 2.31% Impervious Runoff Depth=4.24"
Flow Length=104'	Slope=0.1540 '/' Tc=1.3 min CN=80 Runoff=35.61 cfs 1.558 af
Subcatchment S-2E: SUB 2 TO ONSITE	Runoff Area=11.168 ac 0.00% Impervious Runoff Depth=4.24"
Flow Length=1,273'	Slope=0.0540 '/' Tc=16.6 min CN=80 Runoff=57.36 cfs 3.942 af
Subcatchment S-2P: SUB 2P TO FOREBA	Y Runoff Area=9.583 ac 70.13% Impervious Runoff Depth=5.68"
Flow Length=1,620'	Slope=0.0360 '/' Tc=15.2 min CN=93 Runoff=63.91 cfs 4.533 af
Subcatchment S-3E: SUB 3 TO OFFSITE	Runoff Area=1.876 ac 0.00% Impervious Runoff Depth=4.24"
Flow Length=633'	Slope=0.0660 '/' Tc=8.6 min CN=80 Runoff=12.46 cfs 0.662 af
Subcatchment S-3P: SUB 3P TO FOREBA	Y Runoff Area=3.707 ac 58.86% Impervious Runoff Depth=5.45"
Flow Length=1,531'	Slope=0.0350 '/' Tc=16.1 min CN=91 Runoff=23.51 cfs 1.683 af
Subcatchment S-4P: SUB 4P TO FOREBA	Y Runoff Area=3.812 ac 93.68% Impervious Runoff Depth=6.14"
Flow Length=520'	Slope=0.0560 '/' Tc=4.0 min CN=97 Runoff=36.80 cfs 1.951 af
Reach 1R: OFFSITE	Inflow=115.17 cfs 7.594 af Outflow=115.17 cfs 7.594 af
Reach 2R: ONSITE WETLAND	Inflow=57.36 cfs 3.942 af Outflow=57.36 cfs 3.942 af
Reach 7R: OFFSITE	Inflow=46.66 cfs 9.690 af Outflow=46.66 cfs 9.690 af
Reach 8R: ONSITE WETLAND	Inflow=27.27 cfs 8.132 af Outflow=27.27 cfs 8.132 af
Pond 5P: FOREBAY 1 & WET POND	Peak Elev=479.46' Storage=116,322 cf Inflow=66.45 cfs 8.134 af Outflow=27.27 cfs 8.132 af
Pond 6P: FOREBAY2 Discarded=28.48 cfs	Peak Elev=489.12' Storage=24,032 cf Inflow=63.91 cfs 4.533 af 0.479 af Primary=23.32 cfs 4.499 af Outflow=51.80 cfs 4.979 af
Pond 9P: FOREBAY 3	Peak Elev=489.92' Storage=27,192 cf Inflow=36.80 cfs 1.951 af Outflow=20.97 cfs 1.951 af
Total Runoff Area = 43.032 a	c Runoff Volume = 17.319 af Average Runoff Depth = 4.83"

70.78% Pervious = 30.456 ac 29.22% Impervious = 12.576 ac

# Summary for Subcatchment S-1E: SUB 1 TO OFFSITE WETLAND

Runoff = 49.58 cfs @ 12.04 hrs, Volume= Routed to Reach 1R : OFFSITE 2.990 af, Depth= 4.24"

Area (	(ac)	CN	Desc	ription			
8.4	472	80	>75%	6 Grass co	over, Good,	, HSG D	
8.4	472		100.0	00% Pervi	ous Area		
Tc (min)	Length (feet	n 5 )	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
12.4	764	<b>1</b> 0.	0430	1.03		Lag/CN Method,	

### Summary for Subcatchment S-1P: SUB 1P TO OFFSITE

[49] Hint: Tc<2dt may require smaller dt

Runoff = 35.61 cfs @ 11.90 hrs, Volume= 1.558 Routed to Reach 7R : OFFSITE

1.558 af, Depth= 4.24"

Area (	(ac)	CN	Desc	ription		
4.3	312	80	>75%	6 Grass co	over, Good,	, HSG D
0.1	102	98	Pave	ed parking,	HSG D	
4.4	414	80	Weig	hted Aver	age	
4.3	312		97.69	9% Pervio	us Area	
0.1	102		2.31	% Impervio	ous Area	
Тс	l enath		Slone	Velocity	Canacity	Description
(min)	(feet)		(ft/ft)	(ft/sec)	(cfs)	Description
1.3	104	0.	1540	1.31	(0.0)	Lag/CN Method.
		•.				

# Summary for Subcatchment S-2E: SUB 2 TO ONSITE WETLAND

Runoff = 57.36 cfs @ 12.09 hrs, Volume= Routed to Reach 2R : ONSITE WETLAND 3.942 af, Depth= 4.24"

Area (a	ac) (	CN I	Desc	ription			
11.1	68	80 ;	>75%	6 Grass co	over, Good,	, HSG D	
11.1	68		100.0	0% Pervi	ous Area		
Tc (min)	Length (feet)	Slo (f	ope t/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
16.6	1,273	0.05	540	1.28		Lag/CN Method,	

# Summary for Subcatchment S-2P: SUB 2P TO FOREBAY 2

Runoff = 63.91 cfs @ 12.06 hrs, Volume= Routed to Pond 6P : FOREBAY 2 4.533 af, Depth= 5.68"

Area (a	ac) C	N E	)es	cription			
2.8	362 8	30 >	759	% Grass co	over, Good,	HSG D	
5.2	252	98 F	ave	ed parking	, HSG D		
0.8	36 9	98 F	00	fs, HSG D			
0.6	533 <u>(</u>	98 F	ave	ed parking	, HSG D		
9.5	583 9	93 V	Veig	ghted Aver	age		
2.8	362	2	9.8	7% Pervio	us Area		
6.7	'21	7	0.1	3% Imperv	/ious Area		
Тс	Length	Slo	ре	Velocity	Capacity	Description	
(min)	(feet)	(ft	′ft)	(ft/sec)	(cfs)		
15.2	1,620	0.03	60	1.78		Lag/CN Method,	

# Summary for Subcatchment S-3E: SUB 3 TO OFFSITE

Runoff = 12.46 cfs @ 12.00 hrs, Volume= Routed to Reach 1R : OFFSITE

0.662 af, Depth= 4.24"

Area (	ac)	CN	Desc	ription			
1.8	876	80	>75%	6 Grass co	over, Good,	, HSG D	
1.8	876		100.0	00% Pervi	ous Area		
Tc (min)	Length (feet)	S	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
8.6	633	0.0	0660	1.23		Lag/CN Method,	

# Summary for Subcatchment S-3P: SUB 3P TO FOREBAY 1

Runoff = 23.51 cfs @ 12.07 hrs, Volume= Routed to Pond 5P : FOREBAY 1 & WET POND 1.683 af, Depth= 5.45"

Area (a	ac) C	N D	escription		
1.5	25 8	30 >	75% Grass c	over, Good	, HSG D
2.1	82 9	98 P	aved parking	, HSG D	
3.7	07 9	91 W	eighted Ave	rage	
1.5	25	4	1.14% Pervic	ous Area	
2.1	82	5	3.86% Imper	vious Area	
Tc I (min)	Length (feet)	Slop (ft/	e Velocity (ft) (ft/sec)	Capacity (cfs)	Description
16.1	1,531	0.035	50 1.59		Lag/CN Method,

#### Summary for Subcatchment S-4P: SUB 4P TO FOREBAY 3

[49] Hint: Tc<2dt may require smaller dt

Runoff = 36.80 cfs @ 11.94 hrs, Volume= 1.951 af, Depth= 6.14" Routed to Pond 9P : FOREBAY 3

Area	(ac)	CN	Desc	ription		
0.	241	80	>75%	6 Grass co	over, Good,	, HSG D
3.	571	98	Pave	ed parking,	HSG D	
3.	812	97	Weig	hted Aver	age	
0.	241		6.32	% Perviou	s Area	
3.	571		93.68	8% Imperv	vious Area	
То	Lonat	h (	Slone	Velocity	Capacity	Description
(min)	Lengu (foot	1 v v	(#/#)			Description
(11111)	(leel)	.)	$(\mathbf{u}\mathbf{u})$	(it/sec)	(CIS)	
4.0	52	0.0	.0560	2.17		Lag/CN Method,

# Summary for Reach 1R: OFFSITE

[40] Hint: Not Described (Outflow=Inflow)

Inflow A	rea =	21.516 ac,	0.00% Impervious,	Inflow Depth = $4.2$	24" for 100 yr (Qf) event
Inflow	=	115.17 cfs @	12.05 hrs, Volume	= 7.594 af	
Outflow	=	115.17 cfs @	12.05 hrs, Volume	= 7.594 af,	Atten= 0%, Lag= 0.0 min

# Summary for Reach 2R: ONSITE WETLAND

[40] Hint: Not Described (Outflow=Inflow)

 Inflow Area =
 11.168 ac, 0.00% Impervious, Inflow Depth = 4.24" for 100 yr (Qf) event

 Inflow =
 57.36 cfs @ 12.09 hrs, Volume=
 3.942 af

 Outflow =
 57.36 cfs @ 12.09 hrs, Volume=
 3.942 af, Atten= 0%, Lag= 0.0 min

 Routed to Reach 1R : OFFSITE
 0

# Summary for Reach 7R: OFFSITE

[40] Hint: Not Described (Outflow=Inflow)

Inflow Are	ea =	21.516 ac, 5	58.45% Impervious,	Inflow Depth = $5.4$	40" for 100 yr (Qf) event
Inflow	=	46.66 cfs @	11.91 hrs, Volume	= 9.690 af	
Outflow	=	46.66 cfs @	11.91 hrs, Volume	= 9.690 af,	Atten= 0%, Lag= 0.0 min

# Summary for Reach 8R: ONSITE WETLAND

[40] Hint: Not Described (Outflow=Inflow)

 Inflow Area =
 17.102 ac, 72.94% Impervious, Inflow Depth =
 5.71" for 100 yr (Qf) event

 Inflow =
 27.27 cfs @
 12.54 hrs, Volume=
 8.132 af

 Outflow =
 27.27 cfs @
 12.54 hrs, Volume=
 8.132 af, Atten= 0%, Lag= 0.0 min

 Routed to Reach 7R : OFFSITE
 0
 0
 0

# Summary for Pond 5P: FOREBAY 1 & WET POND

[95] Warning: Outlet Device #2 rise exceeded

Inflow Area	a =	17.102 ac, 7	2.94% Impe	ervious, Inflow D	epth = 5.71	" for 100 y	/r (Qf) event
Inflow	=	66.45 cfs @	12.07 hrs,	Volume=	8.134 af		
Outflow	=	27.27 cfs @	12.54 hrs,	Volume=	8.132 af, A	tten= 59%,	Lag= 28.1 min
Primary	=	27.27 cfs @	12.54 hrs,	Volume=	8.132 af		•
Routed	to Read	ch 8R : ONŠI1	E WETLAN	<b>I</b> D			

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs / 3 Starting Elev= 475.00' Surf.Area= 6,000 sf Storage= 22,390 cf Peak Elev= 479.46' @ 12.54 hrs Surf.Area= 32,728 sf Storage= 116,322 cf (93,932 cf above start)

Plug-Flow detention time= 143.1 min calculated for 7.574 af (93% of inflow) Center-of-Mass det. time= 50.6 min (787.2 - 736.6)

Volume	Inve	rt Avail.Sto	rage Storage	Description	
#1	468.0	0' 171,72	28 cf Custon	n Stage Data (Pris	smatic)Listed below (Recalc)
Elevatio	n	Surf.Area	Inc.Store	Cum.Store	
(fee	et)	(sq-ft)	(cubic-feet)	(cubic-feet)	
468.0	0	1,610	0	0	
469.0	0	2,000	1,805	1,805	
470.0	0	2,410	2,205	4,010	
471.0	0	2,840	2,625	6,635	
472.0	0	3,290	3,065	9,700	
473.0	0	3,770	3,530	13,230	
474.0	0	4,275	4,023	17,253	
475.0	0	6,000	5,138	22,390	
476.0	0	11,675	8,838	31,228	
477.0	0	22,610	17,143	48,370	
478.0	0	26,720	24,665	73,035	
479.0	0	30,590	28,655	101,690	
480.0	0	35,215	32,903	134,593	
481.0	0	39,055	37,135	171,728	
Device	Routing	Invert	Outlet Device	S	
#1	Device 4	480.00'	48.0" Horiz.	Orifice/Grate C=	= 0.600
			Limited to we	ir flow at low head	ls
#2	Device 4	478.00'	3.0' long x 0.	75' rise Sharp-Ci	rested Rectangular Weir
			2 End Contra	ction(s)	C C
#3	Device 4	475.00'	18.0" Round	l Culvert	
			L= 38.0' RC	P, end-section co	nforming to fill, Ke= 0.500
			Inlet / Outlet I	nvert= 471.00' / 4	75.00' S= -0.1053 '/' Cc= 0.900
			n= 0.010 PV	C, smooth interior	, Flow Area= 1.77 sf
#4	Primary	475.00'	24.0" Round	l Culvert	
	-		L= 38.0' RC	P, end-section co	nforming to fill, Ke= 0.500
			Inlet / Outlet I	nvert= 475.00' / 4	74.00' S= 0.0263 '/' Cc= 0.900
			n= 0.010 PV	C, smooth interior	, Flow Area= 3.14 sf

**Primary OutFlow** Max=27.26 cfs @ 12.54 hrs HW=479.46' TW=0.00' (Dynamic Tailwater)

-4=Culvert (Passes 27.26 cfs of 28.14 cfs potential flow)

**1=Orifice/Grate** (Controls 0.00 cfs) **2=Sharp-Crested Rectangular Weir** (Orifice Controls 10.87 cfs @ 5.09 fps)

-3=Culvert (Inlet Controls 16.39 cfs @ 9.28 fps)

#### Summary for Pond 6P: FOREBAY 2

[44] Hint: Outlet device #2 is below defined storage[87] Warning: Oscillations may require smaller dt or Finer Routing (severity=113)

Inflow Area	ı =	9.583 ac, 7	0.13% Impervious,	Inflow Depth =	5.68" for	<sup>-</sup> 100 yr (Qf) event
Inflow	=	63.91 cfs @	12.06 hrs, Volume	= 4.533	af	
Outflow	=	51.80 cfs @	12.15 hrs, Volume	= 4.979	af, Atten=	19%, Lag= 5.0 min
Discarded	=	28.48 cfs @	12.15 hrs, Volume	= 0.479	af	
Primary	=	23.32 cfs @	12.15 hrs, Volume	= 4.499	af	
Routed	to Pone	d 5P : FOREB	AY 1 & WET POND			

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs / 3 Starting Elev= 488.00' Surf.Area= 6,200 sf Storage= 16,298 cf Peak Elev= 489.12' @ 12.15 hrs Surf.Area= 7,606 sf Storage= 24,032 cf (7,734 cf above start)

Plug-Flow detention time= (not calculated: outflow precedes inflow) Center-of-Mass det. time= (not calculated: outflow precedes inflow)

Volume	Invert	Avail.Sto	rage Storage	e Description	
#1	484.00'	40,6	73 cf Custon	n Stage Data (Pr	ismatic)Listed below (Recalc)
Elevatio (fee	on S t)	urf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	
484.0	0	2,205	0	0	
485.0	0	3,040	2,623	2,623	
486.0	0	4,000	3,520	6,143	
487.0	0	5,055	4,528	10,670	
488.0	0	6,200	5,628	16,298	
489.0	0	7,445	6,823	23,120	
490.0	0	8,770	8,108	31,228	
491.0	0	10,120	9,445	40,673	
Device	Routing	Invert	Outlet Device	es	
#1	Discarded	488.00'	32.0" Horiz. Limited to we	Orifice/Grate C eir flow at low hea	= 0.600 ds
#2	Primary	480.00'	<b>18.0" Round</b> L= 156.0' R Inlet / Outlet n= 0.010 PV	d <b>Culvert</b> CP, end-section of Invert= 480.00' / 4 'C, smooth interio	conforming to fill, Ke= 0.500 479.00' S= 0.0064 '/' Cc= 0.900 r, Flow Area= 1.77 sf

**Discarded OutFlow** Max=28.40 cfs @ 12.15 hrs HW=489.11' (Free Discharge) **1=Orifice/Grate** (Orifice Controls 28.40 cfs @ 5.08 fps)

Primary OutFlow Max=23.31 cfs @ 12.15 hrs HW=489.12' TW=478.88' (Dynamic Tailwater) ←2=Culvert (Barrel Controls 23.31 cfs @ 13.19 fps)

# Summary for Pond 9P: FOREBAY 3

Inflow Are	ea =	3.812 ac, 9	3.68% Impervious,	Inflow Depth =	6.14"	for 100 y	r (Qf) event
Inflow	=	36.80 cfs @	11.94 hrs, Volume	= 1.951	af	-	
Outflow	=	20.97 cfs @	12.02 hrs, Volume	= 1.951	af, Atte	n= 43%,  I	Lag= 4.7 min
Primary	=	20.97 cfs @	12.02 hrs, Volume	= 1.951	af		
Routed	d to Pon	d 5P : FOREB	AY 1 & WET POND				

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs / 3 Starting Elev= 488.00' Surf.Area= 5,680 sf Storage= 14,085 cf Peak Elev= 489.92' @ 12.02 hrs Surf.Area= 7,997 sf Storage= 27,192 cf (13,107 cf above start)

Plug-Flow detention time= 141.3 min calculated for 1.626 af (83% of inflow) Center-of-Mass det. time= 11.6 min (756.3 - 744.8)

Volume	Inve	ert Avail.S	Storage	Storage	Description	
#1	484.0	0' 27	7,833 cf	Custom	n Stage Data (Pi	rismatic)Listed below (Recalc)
Elevatio	on	Surf.Area	Inc	.Store	Cum.Store	
(fee	et)	(sq-ft)	(cubio	c-feet)	(cubic-feet)	
484.0	00	1,510		0	0	
485.0	00	2,445		1,978	1,978	
486.0	00	3,490		2,968	4,945	
487.0	00	4,555		4,023	8,968	
488.0	00	5,680		5,118	14,085	
489.0	00	6,860		6,270	20,355	
490.0	00	8,095		7,478	27,833	
Device	Routing	Inve	ert Outle	et Device	s	
#1	Device 2	488.0	0' <b>24.0</b> '	" Horiz. (	Orifice/Grate	C= 0.600
			Limit	ed to we	ir flow at low hea	ads
#2	Primary	482.0	0' <b>18.0</b> '	" Round	l Culvert	
			L= 10	69.0' R(	CP, end-section	conforming to fill, Ke= 0.500
			Inlet	/ Outlet I	nvert= 482.00' /	477.00' S= 0.0296 7' Cc= 0.900
			n= 0.	.010 PV	c, smooth interio	Dr, FIOW Area= 1.77 ST

**Primary OutFlow** Max=20.77 cfs @ 12.02 hrs HW=489.89' TW=478.12' (Dynamic Tailwater) **2=Culvert** (Passes 20.77 cfs of 22.73 cfs potential flow)

**1=Orifice/Grate** (Orifice Controls 20.77 cfs @ 6.61 fps)

DGC025_HydroCAD Prepared by Elan Design Lab, Inc	Type II 24-hr Water Qual	<i>ity (WQv) Rainfall=1.10"</i> Printed 8/30/2022
HydroCAD® 10.20-2f s/n 07437 © 2022 Hydro	CAD Software Solutions LLC	Page 55
Time span=0.00-4 Runoff by SCS TR Reach routing by Dyn-Stor-Ind	8.00 hrs, dt=0.05 hrs, 961 points x 3 -20 method, UH=SCS, Weighted-CN method - Pond routing by Dyn-Stor	l r-Ind method
Subcatchment S-1E: SUB 1 TO OFFSITE	Runoff Area=8.472 ac 0.00% Impe	ervious Runoff Depth=0.12"
Flow Length=764'	Slope=0.0430 '/' Tc=12.4 min CN=80	0 Runoff=0.78 cfs 0.082 af
Subcatchment S-1P: SUB 1P TO OFFSITE	Runoff Area=4.414 ac 2.31% Impe	ervious Runoff Depth=0.12"
Flow Length=104	Slope=0.1540 '/' Tc=1.3 min CN=80	0 Runoff=0.74 cfs 0.043 af
Subcatchment S-2E: SUB 2 TO ONSITE	Runoff Area=11.168 ac 0.00% Impe	ervious Runoff Depth=0.12"
Flow Length=1,273'	Slope=0.0540 '/' Tc=16.6 min CN=80	0 Runoff=0.86 cfs 0.108 af
Subcatchment S-2P: SUB 2P TO FOREBA	Y Runoff Area=9.583 ac 70.13% Impe	ervious Runoff Depth=0.53"
Flow Length=1,620'	Slope=0.0360 '/' Tc=15.2 min CN=93	3 Runoff=6.46 cfs 0.423 af
Subcatchment S-3E: SUB 3 TO OFFSITE	Runoff Area=1.876 ac 0.00% Impe	ervious Runoff Depth=0.12"
Flow Length=633	' Slope=0.0660 '/' Tc=8.6 min CN=80	0 Runoff=0.21 cfs 0.018 af
Subcatchment S-3P: SUB 3P TO FOREBA	Y Runoff Area=3.707 ac 58.86% Impe	ervious Runoff Depth=0.43"
Flow Length=1,531'	Slope=0.0350 '/' Tc=16.1 min CN=9	1 Runoff=1.95 cfs 0.133 af
Subcatchment S-4P: SUB 4P TO FOREBA	Y Runoff Area=3.812 ac 93.68% Impe	ervious Runoff Depth=0.80"
Flow Length=520	' Slope=0.0560 '/' Tc=4.0 min CN=9	7 Runoff=5.42 cfs 0.254 af
Reach 1R: OFFSITE		Inflow=1.73 cfs 0.208 af Outflow=1.73 cfs 0.208 af
Reach 2R: ONSITE WETLAND		Inflow=0.86 cfs 0.108 af Outflow=0.86 cfs 0.108 af
Reach 7R: OFFSITE		Inflow=6.89 cfs 1.288 af Outflow=6.89 cfs 1.288 af
Reach 8R: ONSITE WETLAND		Inflow=6.89 cfs 1.245 af Outflow=6.89 cfs 1.245 af
Pond 5P: FOREBAY 1 & WET POND	Peak Elev=476.39' Storage=36,683 c	f Inflow=21.75 cfs 1.247 af Outflow=6.89 cfs 1.245 af
Pond 6P: FOREBAY 2	Peak Elev=488.00' Storage=16,298	cf Inflow=6.46 cfs 0.423 af
Discarded=0.00 cfs	0.000 af Primary=21.75 cfs 0.860 af	Outflow=21.75 cfs 0.860 af
Pond 9P: FOREBAY 3	Peak Elev=488.34' Storage=16,062	cf Inflow=5.42 cfs 0.254 af Outflow=4.01 cfs 0.254 af
Total Runoff Area = 43.032 a	ac Runoff Volume = 1.061 af Ave	rage Runoff Depth = 0.30"
70	.78% Pervious = 30.456 ac  29.22	% Impervious = 12.576 ac

### Summary for Subcatchment S-1E: SUB 1 TO OFFSITE WETLAND

Runoff = 0.78 cfs @ 12.09 hrs, Volume= Routed to Reach 1R : OFFSITE 0.082 af, Depth= 0.12"

Area (	(ac) (	CN	Desc	ription				
8.4	472	80	>75%	6 Grass co	over, Good,	, HSG D		
8.4	8.472 100.00% Pervious Area							
Tc (min)	Length (feet)	Slo (f	ope ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description		
12.4	764	0.04	430	1.03		Lag/CN Method,		

### Summary for Subcatchment S-1P: SUB 1P TO OFFSITE

[49] Hint: Tc<2dt may require smaller dt

0.74 cfs @ 11.94 hrs, Volume= Runoff = Routed to Reach 7R : OFFSITE

0.043 af, Depth= 0.12"

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Area (	(ac)	CN	Desc	cription			
4.3	312	80	>75%	6 Grass co	over, Good,	I, HSG D	
0.1	102	98	Pave	ed parking,	HSG D		
4.4	414	80	Weig	hted Aver	age		
4.3	4.312 97.69% Pervious Area						
0.1	102		2.31	% Impervio	ous Area		
Тс	Lonat	- ·	Slone	Velocity	Capacity	Description	
(min)	(foot		(#/#)			Description	
(11111)	(leel	)	$(\mathbf{u}\mathbf{u})$	(it/sec)	(CIS)		
1.3	104	40.	.1540	1.31		Lag/CN Method,	

# Summary for Subcatchment S-2E: SUB 2 TO ONSITE WETLAND

Runoff = 0.86 cfs @ 12.15 hrs, Volume= Routed to Reach 2R : ONSITE WETLAND 0.108 af, Depth= 0.12"

Area	(ac)	CN	Desc	ription			
11.	168	80	>75%	6 Grass co	over, Good,	, HSG D	
11.	168		100.0	0% Pervi	ous Area		
Tc (min)	Length (feet)	S	lope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
16.6	1,273	0.0	0540	1.28		Lag/CN Method,	

#### Summary for Subcatchment S-2P: SUB 2P TO FOREBAY 2

Runoff = 6.46 cfs @ 12.08 hrs, Volume= Routed to Pond 6P : FOREBAY 2 0.423 af, Depth= 0.53"

Area (ac)	CN	N Desc	cription			
2.862	80	) >75%	% Grass co	over, Good,	, HSG D	
5.252	98	B Pave	ed parking,	HSG D		
0.836	98	B Roof	fs, HSG D			
0.633	98	B Pave	ed parking,	HSG D		
9.583	33 93 Weighted Average					
2.862		29.8	7% Pervio	us Area		
6.721		70.1	3% Imperv	vious Area		
Tc Ler	ngth	Slope	Velocity	Capacity	Description	
<u>(min)</u> (f	eet)	(ft/ft)	(ft/sec)	(cfs)		
15.2 1,	620	0.0360	1.78		Lag/CN Method,	

### Summary for Subcatchment S-3E: SUB 3 TO OFFSITE

Runoff = 0.21 cfs @ 12.04 hrs, Volume= 0.018 af, Depth= 0.12" Routed to Reach 1R : OFFSITE

Area (ac)	) C	N De	scription				
1.876	6 8	0 >75	5% Grass co	over, Good,	, HSG D		
1.876 100.00% Pervious Area							
Tc Le (min) (	ngth feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description		
8.6	633	0.0660	1.23		Lag/CN Method,		

#### Summary for Subcatchment S-3P: SUB 3P TO FOREBAY 1

Runoff = 1.95 cfs @ 12.09 hrs, Volume= 0.133 af, Depth= 0.43" Routed to Pond 5P : FOREBAY 1 & WET POND

(ac)	CN	Desc	ription				
.525	80	>75%	6 Grass co	over, Good,	, HSG D		
.182	98	Pave	d parking,	HSG D			
.707	91	Weig	hted Aver	age			
.525 41.14% Pervious Area							
.182		58.86	6% Imperv	rious Area			
Lengt (fee	h	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description		
1,53	1 0.	.0350	1.59		Lag/CN Method,		
	(ac) .525 .182 .707 .525 .182 Lengt (fee 1,53	(ac)         CN           .525         80           .182         98           .707         91           .525         .182           Length         .162           1,531         0.1531	(ac)         CN         Desc           .525         80         >75%           .182         98         Pave           .707         91         Weig           .525         41.14           .182         58.86           Length         Slope           (feet)         (ft/ft)           1,531         0.0350	(ac)         CN         Description           .525         80         >75% Grass co           .182         98         Paved parking,           .707         91         Weighted Aver           .525         41.14% Pervior           .525         58.86% Impervior           .182         58.86% Impervior           .182         58.86% Impervior           .182         51.14% Pervior           .182         58.86% Impervior           .182         51.20% Pervior           .182         .11.20% Pervior           .182         .11.20% Pervior           .182         .11.20% Pervior <td>(ac)CNDescription.52580&gt;75% Grass cover, Good.18298Paved parking, HSG D.70791Weighted Average.52541.14% Pervious Area.18258.86% Impervious AreaLengthSlopeVelocity(feet)(ft/ft)(ft/sec)1,5310.03501.59</td>	(ac)CNDescription.52580>75% Grass cover, Good.18298Paved parking, HSG D.70791Weighted Average.52541.14% Pervious Area.18258.86% Impervious AreaLengthSlopeVelocity(feet)(ft/ft)(ft/sec)1,5310.03501.59		

#### Summary for Subcatchment S-4P: SUB 4P TO FOREBAY 3

[49] Hint: Tc<2dt may require smaller dt

5.42 cfs @ 11.94 hrs, Volume= 0.254 af, Depth= 0.80" Runoff = Routed to Pond 9P : FOREBAY 3

Area	(ac)	CN	Desc	ription					
0.	241	80	>75%	6 Grass co	over, Good,	, HSG D			
3.	571	98	Pave	ed parking,	HSG D				
3.	812	97	Weig	hted Aver	age				
0.	241		6.32	6.32% Pervious Area					
3.571 93.68% Impervious Area					vious Area				
Та	Longth	_ (	Slope	Volocity	Consoity	Description			
(min)	Lengu				Capacity	Description			
<u>(min)</u>	(leet	)	(11/11)	(it/sec)	(CIS)				
4.0	520	0.	0560	2.17		Lag/CN Method,			
### Summary for Reach 1R: OFFSITE

[40] Hint: Not Described (Outflow=Inflow)

Inflow <i>J</i>	Area =	21.516 ac,	0.00% Impervious,	Inflow Depth =	0.12"	for Wa	ter Quality (WQv)	event
Inflow	=	1.73 cfs @	12.11 hrs, Volume	= 0.208	af		• • • •	
Outflov	v =	1.73 cfs @	12.11 hrs, Volume	= 0.208	af, Atte	en= 0%,	Lag= 0.0 min	

### Summary for Reach 2R: ONSITE WETLAND

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 11.168 ac, 0.00% Impervious, Inflow Depth = 0.12" for Water Quality (WQv) event Inflow = 0.86 cfs @ 12.15 hrs, Volume= 0.108 af Outflow = 0.86 cfs @ 12.15 hrs, Volume= 0.108 af, Atten= 0%, Lag= 0.0 min Routed to Reach 1R : OFFSITE

## Summary for Reach 7R: OFFSITE

[40] Hint: Not Described (Outflow=Inflow)

Inflow A	Area =	21.516 ac, 58	8.45% Impe	ervious,	Inflow Depth >	0.72"	for Water Quality (WQv) event
Inflow	=	6.89 cfs @	0.26 hrs,	Volume	= 1.288	8 af	
Outflov	v =	6.89 cfs @	0.26 hrs,	Volume	= 1.288	8 af, Att	en= 0%, Lag= 0.0 min

### Summary for Reach 8R: ONSITE WETLAND

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 17.102 ac, 72.94% Impervious, Inflow Depth > 0.87" for Water Quality (WQv) event Inflow = 6.89 cfs @ 0.26 hrs, Volume= 1.245 af Outflow = 6.89 cfs @ 0.26 hrs, Volume= 1.245 af, Atten= 0%, Lag= 0.0 min Routed to Reach 7R : OFFSITE

### Summary for Pond 5P: FOREBAY 1 & WET POND

Inflow Area	=	17.102 ac, 7	2.94% Impervious,	Inflow Depth =	0.87"	for Water Quality (WQv) event
Inflow	=	21.75 cfs @	0.00 hrs, Volume	= 1.247	af	2 . , ,
Outflow	=	6.89 cfs @	0.26 hrs, Volume	= 1.245	af, Atter	n= 68%, Lag= 15.6 min
Primary	=	6.89 cfs @	0.26 hrs, Volume	= 1.245	af	-
Routed	to Read	ch 8R : ONSIT	E WETLAND			

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs / 3 Starting Elev= 475.00' Surf.Area= 6,000 sf Storage= 22,390 cf Peak Elev= 476.39' @ 0.26 hrs Surf.Area= 15,988 sf Storage= 36,683 cf (14,293 cf above start)

Plug-Flow detention time= 667.6 min calculated for 0.686 af (55% of inflow) Center-of-Mass det. time= 56.2 min ( 600.8 - 544.6 )

. . .

Volume	Inve	ert Avail.Sto	orage Sto	rage Description			
#1	468.0	0' 171,7	28 cf <b>Cu</b>	stom Stage Data (Prismatic)Listed below (Recalc)			
Elevatio	on	Surf.Area	Inc.Sto	te Cum.Store			
	»()		(Cubic-lee				
468.0	00	1,610	4.00				
469.0	00	2,000	1,80	5 1,805			
470.0	00	2,410	2,20	5 4,010			
471.0	00	2,840	2,62	5 6,635			
472.0	00	3,290	3,06	5 9,700			
473.0	00	3,770	3,53	0 13,230			
474.0	00	4,275	4,02	3 17,253			
475.0	00	6,000	5,13	8 22,390			
476.00 11,675		8,83	8 31,228				
477.0	00	22,610	17,14	3 48,370			
478.0	00	26,720	24,66	5 73,035			
479.0	00	30,590	28,65	5 101,690			
480.0	00	35,215	32,90	3 134,593			
481.0	00	39,055	37,13	5 171,728			
Device	Routing	Invert	Outlet De	evices			
#1	Device 4	480.00'	48.0" Ho	riz. Orifice/Grate C= 0.600			
			Limited to	o weir flow at low heads			
#2	Device 4	478.00'	3.0' long	x 0.75' rise Sharp-Crested Rectangular Weir			
	<b>.</b>	175 001	2 End Co	ntraction(s)			
#3	Device 4	475.00'	18.0" R	ound Culvert			
#4	Primary	475.00'	L= 38.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 471.00' / 475.00' S= -0.1053 '/' Cc= 0.90' n= 0.010 PVC, smooth interior, Flow Area= 1.77 sf <b>24.0'' Round Culvert</b> L= 38.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 475.00' / 474.00' S= 0.0263 '/' Cc= 0.900 n= 0.010 PVC smooth interior. Flow Area= 3.14 sf				
				_,,,			

**Primary OutFlow** Max=6.84 cfs @ 0.26 hrs HW=476.39' TW=0.00' (Dynamic Tailwater)

-4=Culvert (Passes 6.84 cfs of 9.31 cfs potential flow)

1=Orifice/Grate (Controls 0.00 cfs) 2=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)

-3=Culvert (Inlet Controls 6.84 cfs @ 4.01 fps)

### Summary for Pond 6P: FOREBAY 2

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 9.583 ac, 70.13% Impervious, Inflow Depth = 0.53" for Water Quality (WQv) event 6.46 cfs @ 12.08 hrs, Volume= Inflow = 0.423 af 0.860 af, Atten= 0%, Lag= 0.0 min Outflow = 21.75 cfs @ 0.00 hrs, Volume= Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af Primary = 21.75 cfs @ 0.00 hrs. Volume= 0.860 af Routed to Pond 5P : FOREBAY 1 & WET POND

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs / 3 Starting Elev= 488.00' Surf.Area= 6,200 sf Storage= 16,298 cf Peak Elev= 488.00' @ 0.00 hrs Surf.Area= 6,200 sf Storage= 16,298 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow) Center-of-Mass det. time= (not calculated: outflow precedes inflow)

Volume	Invert	Avail.Stor	rage	Storage [	Description	
#1	484.00'	40,67	73 cf	Custom	Stage Data (P	rismatic)Listed below (Recalc)
Elevation	ı Sı	urf.Area	Inc.	Store	Cum.Store	
(feet)	)	(sq-ft)	(cubic	-feet)	(cubic-feet)	
484.00	)	2,205		0	0	
485.00	)	3,040		2,623	2,623	
486.00	)	4,000	3	3,520	6,143	
487.00		5,055	4	4,528	10,670	
488.00		6,200	Ę	5,628	16,298	
489.00	)	7,445	6	5,823	23,120	
490.00		8,770	8	8,108	31,228	
491.00		10,120	ç	9,445	40,673	
Device	Routing	Invert	Outle	t Devices		
#1	Discarded	488.00'	32.0"	Horiz. O	rifice/Grate	C= 0.600
#2	Primary	480.00'	<b>18.0</b> " L= 15 Inlet / n= 0.0	60.0' RCI 66.0' RCI Outlet In 010 PVC	Culvert , end-section vert= 480.00' / , smooth interio	conforming to fill, Ke= 0.500 479.00' S= 0.0064 '/' Cc= 0.900 or, Flow Area= 1.77 sf

**Discarded OutFlow** Max=0.00 cfs @ 0.00 hrs HW=488.00' (Free Discharge) **1=Orifice/Grate** (Controls 0.00 cfs)

Primary OutFlow Max=21.75 cfs @ 0.00 hrs HW=488.00' TW=475.28' (Dynamic Tailwater) -2=Culvert (Barrel Controls 21.75 cfs @ 12.31 fps)

### Summary for Pond 9P: FOREBAY 3

Inflow Area	=	3.812 ac,	93.68% Impe	ervious,	Inflow Depth =	÷ 0.8	30" for Wate	r Quality (WQv) event
Inflow	=	5.42 cfs @	11.94 hrs,	Volume	= 0.25	4 af		
Outflow	=	4.01 cfs @	12.00 hrs,	Volume	= 0.25	4 af,	Atten= 26%,	Lag= 3.4 min
Primary	=	4.01 cfs @	12.00 hrs,	Volume	= 0.25	4 af		-
Routed	to Pond	5P : FORE	BAY 1 & WE	T POND				

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs / 3 Starting Elev= 488.00' Surf.Area= 5,680 sf Storage= 14,085 cf Peak Elev= 488.34' @ 12.00 hrs Surf.Area= 6,077 sf Storage= 16,062 cf (1,977 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow) Center-of-Mass det. time= 18.9 min (812.9 - 794.0)

Volume	Inve	ert Avail.S	torage S	Storage	Description				
#1	484.0	0' 27	,833 cf <b>(</b>	Custom	Stage Data (P	rismatic)Listed below (Recalc)			
Elevatio	on	Surf.Area	Inc.S	tore	Cum.Store				
(fee	et)	(sq-ft)	(cubic-	feet)	(cubic-feet)				
484.0	00	1,510		0	0				
485.0	00	2,445	1	,978	1,978				
486.0	00	3,490	2	,968	4,945				
487.0	00	4,555	4	,023	8,968				
488.0	00	5,680	5	,118	14,085				
489.0	00	6,860	6	,270	20,355				
490.0	00	8,095	7	,478	27,833				
Device	Routing	Inve	rt Outlet	Devices	S				
#1	Device 2	488.00	)' <b>24.0''</b>	Horiz. C	Drifice/Grate	C= 0.600			
#2	Primary	482.00	linite 18.0" L= 169 Inlet / n= 0.0	<b>18.0" Round Culvert</b> L= 169.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 482.00' / 477.00' S= 0.0296 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 1.77 sf					

**Primary OutFlow** Max=4.00 cfs @ 12.00 hrs HW=488.34' TW=475.74' (Dynamic Tailwater) **2=Culvert** (Passes 4.00 cfs of 20.11 cfs potential flow)

**1=Orifice/Grate** (Weir Controls 4.00 cfs @ 1.90 fps)

# DANIEL G. LOUCKS, P.E. GEOTECHNICAL ENGINEERING

Geotechnical Report For MCIDA Warehouse Site Rt 5S, Town of Florida, New York

File No. 3960

Prepared For:

Prime AE Group of NY



14 AMBER WAY, BALLSTON SPA, NY 12020 = 518-369-9453 = E-MAIL: DGLGEOENG@GMAIL.COM

#### INTRODUCTION:

The subsurface investigation for the proposed MCIDA Warehouse Facility, Town of Florida, New York has been completed. Aztech Environmental Technologies Inc. of Ballston Spa, New York has completed ten (10) soil borings at the site. Soil boring B-1 was not performed. The logs of these borings, along with a location diagram, have been included in the appendix of this report.

It is my understanding that the final design for the site hasn't been completed, but the estimated construction may include one to two single-story warehouse building(s) located approximately as indicated on the boring location diagram. The building(s) will have a steel frame design.

The maximum column loadings could range from 150 to 200 kips. The settlement tolerances are normal. Settlement tolerances are considered to include up to 1 inch of total settlement and 3/4 inch of differential settlement between column locations.

The current preliminary plan has an estimated first floor slab will be established at between elevations 490 and 495. This would require up to approximately 25 feet of cut and fill over the site.

The purpose of this report is to describe the investigation conducted and the results obtained; to analyze and interpret the data obtained; and to make preliminary recommendations for the design and construction of the feasible foundation types and earthworks for the project. The preliminary recommendations contained in this report are based on the information that was provided up to the date the report was completed. Any changes in the design of the project or changes to the recommendations provided in this report should be brought to my attention to determine if there needs to be any revision of the geotechnical recommendations. I am not responsible for any changes made to the recommendations provided in this report unless I have provided written approval of the changes.

The scope of my services has been limited to coordinating the boring and laboratory investigation, analyzing the soils geotechnical report with providing а information, and foundation recommendations and seismic site preliminary classifications as per NYS Building Code. Environmental aspects of the project as well as grading and site design should be performed by qualified others. Additional soil borings may be required depending on the final building placement and grading.

#### FIELD INVESTIGATION PROCEDURES:

The borings were extended by means of 3.75 inch ID, hollow-stem augers, by using various cutting bits using circulating drilling fluid to remove the cuttings from the casing and by continuous sampling with a split-spoon sampler.

Representative samples were obtained from the boring holes by means of the split-spoon sampling procedure performed in accordance with ASTM D 1586. The standard penetration values obtained from this procedure have been indicated on the soil boring logs.

Soil samples obtained from these procedures were examined in the field, sealed in containers, and shipped to the laboratory for further examination, classification, and testing, as applicable.

During the investigation, water level readings were obtained at various times where water accumulated in the boring hole. The water level readings, along with an indication of the time of the reading relative to the boring procedure, have been indicated on the soil boring logs.

#### LABORATORY INVESTIGATION:

All samples were examined in the laboratory by the soil engineer and classified according to the Unified Soil Classification System. In this system, the soils are visually classified according to texture and plasticity. The appropriate group symbol is indicated on the soil boring logs.

Atterberg limit tests were performed on representative samples in accordance with ASTM D 4318. The results of these tests are included in the appendix of this report.

Sieve Analyses were performed on representative samples in accordance with ASTM Specification D 422. These tests were performed to verify the visual soil classifications. Results of the tests can be found in the appendix of the report.

#### SITE CONDITIONS:

The site is currently a farm field. The ground surface at the site slopes down from approximately elevation 520 down to 470.

Geologic mapping of the area indicates upper silt/clay soils with bedrock consisting of sales and some siltstone.

#### SUBSURFACE CONDITIONS:

The specific subsurface conditions encountered at each boring location are indicated on the individual soil boring logs. However, to aid in the evaluation of this data, I have prepared a generalized description of the soil conditions based on the boring data. Ground surface elevations as shown on the boring logs, when available, have be estimated from the existing topographic mapping as shown on the site plan provided to this office.

The borings generally encountered an upper layer of clayey silt topsoil that extends to between approximately 1 and 2 feet below the existing ground surface.

Beneath the topsoil is clayey silt soils with varying amounts of sand and gravel. These soils extended to the bottom of the borings at between 10 and 42 feet below the existing ground surface and they are loose to very dense. Borings B-10 and B-11 encountered split spoon/auger refusal at 20.2 and 12.6 feet below the existing ground surface respectively. No rock core was able to be taken due to site limitations. I recommend that when available, the borings be extended and rock core be taken at these locations to determine if refusal was on bedrock of very dense glacial till soils with possible cobbles/boulders.

#### GROUNDWATER CONDITIONS:

Accurate groundwater levels are difficult to determine in clayey silt soils with only short term readings or observations. Clayey silt soils typically do not allow an adequate amount of water to flow through the soil to produce a water level reading during the drilling operation. I have indicated where water was observed on the boring logs.

Based on the groundwater levels observed during the boring investigation, the moisture condition of the samples recovered from the boring holes and coloration of the soil samples, I judge that the groundwater level was located below depth of 6 feet. Perched groundwater tables may occur at higher elevations in the soil profile due to groundwater being retained by layers or lenses of silt or clay soils.

Some fluctuation in hydrostatic groundwater levels and perched water conditions should be anticipated with variations in the seasonal rainfall and surface runoff.

It should be noted that the groundwater levels were obtained during the drilling procedure. Actual water levels may vary at the time of construction. Some groundwater could be encountered in soil layers labeled moist to wet on the boring logs.

#### ANALYSIS AND RECOMMENDATIONS:

The purpose of this investigation and report was to perform soil borings spaced across the potential building areas at the site to provide a better understanding of the subsurface conditions and look at possible foundation types for proposed building(s). It also was performed to identify possible geotechnical issues that may occur at the site.

I understand that the current preliminary plan includes on long warehouse building with a possible finished floor elevation of between 490 and 495. Depending on the size of the building this could require up to approximately 25 feet of cut and fill at the site. Borings B-8, B-9, B-10 and B-11 were all performed where the ground surface is currently higher than elevation 500. The other borings were performed at elevations of 489 or lower. Boring B-8 extended to approximately elevation 483, boring B-9extended to approximately elevation 465, boring B-10 extended to approximately elevation 487 all of which are below the estimated proposed finished floor elevation of 490. Boring B-11 extended to approximately elevation 502 where power auger refusal was encountered. Depending on the final grading plan, I recommend at this boring be extended and possibly additional borings performed to more accurately determine the subsurface conditions in this area and if bedrock may be encountered.

Depending on the proposed grading, the lower portion of the site may require up to 25 feet of fill. The borings in this area indicate the soils are loose to dense clayey silt soils with varying amounts of sand and gravel. In my experience these soils generally consolidate fairly quickly (within 30 to 45 days of loading). I would recommend monitoring this area with settlement plates during the placement of the fill to determine the rate of consolidation of the virgin soils. This will help determine when the rate has slowed to within allowable tolerances to allow the construction of the proposed building.

The other potential issue would be using on site soils as controlled fill in the proposed fill locations. These soils are predominantly clayey silt soils and will therefore be very sensitive to moisture content when placing them. If these soils become wet, they can be very difficult to place and achieve proper compaction. They also can become easily disturbed by construction traffic. Proper placement of these soils as controlled fill in the fall, winter and spring will be difficult. A summer placement of these soils as controlled fill would offer the best opportunity for success.

#### Site Work:

The proposed construction areas should be cleared and grubbed and all organic topsoil and vegetation along with any uncontrolled fill and debris. The subgrade should be proof-rolled with a 10-ton roller and the proof rolling should be observed by the soil engineer. This proof rolling will compact the subgrade and reveal the presence of soft spots. If saturated subgrade conditions exist, I recommend that the subgrade be observed and probed by the soil engineer in place of proof rolling. Any soft spots should be excavated and backfilled with controlled fill material.

A way to stabilize a spongy, but suitable, footing subgrade would be to spread a reinforcement or separation type of geotextile (Mirafi 600X or approved equal) on the subgrade and follow with a lift of clean, granular fill or uniform crushed stone. The thickness of the controlled fill can range from 0.5 to 1.5 feet, as necessary, to achieve a working mat upon which to place footings. If uniform crushed stone is used as controlled fill a layer of geotextile should be placed between the crushed stone and any sand/gravel controlled fill or virgin soil.

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#### Building Foundations:

Based on the estimated loading, it is my preliminary opinion that the proposed structure(s) may be supported by spread footing foundations resting on firm virgin, inorganic, soils or on controlled fill which, in turn, rests on these virgin materials. Footings can be preliminarily designed for a maximum, net, allowable soil bearing pressure of 2000 psf. When a final plan has been developed and additional soil borings performed, a final recommendation can be provided.

A minimum footing width of 2.0 feet is recommended for load bearing strip footings. Isolated footings should be at least 3.0 feet wide.

Exterior footings or footings in unheated areas should have a minimum of 4.0 feet of embedment for protection from frost action. Interior footings should have a minimum embedment of 2.0 feet below finished grade to develop the bearing value of the soils.

All walls that retain soil on only one side should have a drain tile placed along the base of the wall. The drain tile should be a minimum of 4 inches in diameter, surrounded by a minimum of 6 inches of properly graded washed sand or crushed stone wrapped with a non-woven filter fabric with a maximum apparent opening size of 70 and a minimum trapezoid tearing strength of 100 lbs. The drain tile should drain to a stormwater sewer, daylight, or a sump equipped with a pump.

The wall should then be backfilled with a controlled, well graded, free-draining granular material. The material should extend away from the wall a horizontal distance of two-thirds the height of the fill being placed. The upper 1 foot of material should be a fairly impermeable material to shed surface water and should be pitched away from the building to provide proper drainage.

If these procedures are used, a static lateral soil pressure of 40 psf per foot of retained soil can be used for preliminary design of the wall. This static, active lateral soil pressure is based on a moist unit weight of 125 pcf and an angle of internal friction of 32 degrees. A wall soil friction angle of 18 degrees and a coefficient of base sliding of 0.35 can also be used for preliminary design. If the retaining wall is braced or if the deflection is limited prior to backfilling so the active soil pressure is not achieved, a static, at-rest lateral soil pressure of 63 psf per foot of retained soil can be used for preliminary design.

To resist overturning and sliding a static lateral passive pressure of 250 psf per foot of embedment can be used for preliminary design, provided foundations are backfilled with controlled fill. This static, passive pressure resistance value has been reduced from the calculated full passive pressure because of stress/strain characteristics of the soil. To develop the full, calculated resistance a certain amount of movement or deflection in the structure is required. The amount of movement required to generate this resistance generally greater than is acceptable for structures. I therefore recommend that the full passive pressure not be used.

The passive resistance of the upper two feet of soil, not in floor slab areas, should be ignored due to surface effects of frost and moisture.

Any surcharge loading of existing adjacent building foundations or other adjacent structures/utilities should be addressed by the structural engineer using Boussinesq charts.

#### Floor Slabs:

Concrete floor slabs can be preliminarily designed to rest on controlled fills resting on virgin materials. A layer of wellgraded, free-draining, granular material should be placed beneath the floor slab to provide drainage, act as a capillary break, and to provide better and more uniform support. The thickness of this layer will depend on the loading and differential settlement tolerances. I would preliminarily estimate that a minimum of 6 inches would be required in office floor areas and up to 18 inches in warehouse slab locations.

#### Seismic Conditions:

The potential seismic conditions at the proposed site have been investigated using the information provided in the NYS Building Code, ASCE-7 and the boring information obtained during my investigation and past experience with soils in the area.

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Based on the soil boring information, estimated proposed finished floor elevations and my experience it is my opinion that the Site Soil Classification (ASCE-7 Table 20.3-1) could be assumed to be D. Using data from Reference Document ASCE7-16, Risk Category I, I estimate that the MCE spectral acceleration (SMS) at short periods is 34.7 and the MCE spectral acceleration (SM1) at 1 s period is 15.0. I have included a copy of the spectral accelerations for other Hazard Levels in the appendix of this report.

The probabilistic ground motion values are expressed in %g for rock site class B. Peak ground accelerations in the upper soil profile may vary. If specific peak ground accelerations or shear wave velocities are required for the upper soil profile additional testing would be required. If it is determined by the structural engineer that the Seismic Design Category is D, E or F additional geotechnical recommendations can be provided.

The soil borings and my analysis do not indicate any significant potential seismic hazards such as liquefaction, sensitive clays, weakly cemented soil, or surface rupture.

#### CONSTRUCTION PROCEDURES AND PROBLEMS:

The NYS Building Code Section 17 requires special inspections and follow up reports. These inspections should be performed to verify compliance with the recommendations contained in this report.

All excavations of more than a few feet should be sheeted and braced or laid back to prevent sloughing in of the sides.

Excavations should not extend below adjacent footings or structures unless properly designed sheeting and bracing or underpinning is installed.

Sump-pit and sump-pump-type dewatering may be required in excavations or low areas during wet weather or if groundwater is encountered. If large quantities of groundwater are encountered vacuum wells maybe required to stabilize the subgrade soils. All excavations should be dewatered to a minimum of 1 foot below the bottom of the excavation. All dewatering programs should be designed to prevent bottom heave. Any dewatering program should be performed with properly designed filtration protection on all pumps to prevent loss of ground.

As previously noted, the on-site soils contain clayey silt which will make the soils sensitive to moisture content. If the material becomes wet or saturated, it will become spongy and easily disturbed. It will also be difficult to place as controlled fill if it becomes too wet. Imported well draining sand and gravel or possibly crushed stone may be required to prevent disturbance of the subgrade soils during construction and in roadway areas. Additional subbase, up to 24 inches of total thickness, may be required to support traffic loadings. Any areas of the pavement subgrades that become disturbed during construction should be removed and replaced with subbase materials.

Temporary paving using coarse fill material or separation/ reinforcement geotextile and coarse fill material will be required for moving about the site during wet or thaw weather. MCIDA Warehouse Site Rt 5S, Town of Florida, New York File No. 3960

#### CONTENTS OF APPENDIX:

1. General Notes

2. Boring Location Diagram

3. Boring Logs

4. Seismic Design Values

5. Laboratory Test Results

6. Unified Soil Classification System

7. Soil Use Chart

8. General Qualifications

### GENERAL NOTES

### DRILLING & SAMPLING SYMBOLS

- SS : Split-Spoon 1<sup>3/4</sup> "I.D., 2" O.D., except where noted
- S : Shelby Tube 2" O.D., except where noted
- PA : Power Auger Sample

DB : Diamond Bit — NX: BX: AX:

- CB : Carboloy Bit NX: BX: AX:
- OS : Osterberg Sampler 3" Shelby Tube
- HS : Housel Sampler
- WS : Wash Sample
- FT : Fish Tail
- RB : Rock Bit
- WO : Wash Out

Standard "N" Penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2 inch OD split spoon, except where noted

### WATER LEVEL MEASUREMENT SYMBOLS

- WL : Water Level
- WCI: Wet Cave In
- DCI : Dry Cave In
- WS : While Sampling
- WD : While Drilling
- BCR: Before Casing Removal
- ACR : After Casing Removal
- AB : After Boring

Water levels indicated on the boring logs are the levels measured in the boring at the times indicated. In pervious soils, the indicated elevations are considered reliable ground water levels. In impervious soils the accurate determination of ground water elevations is not possible in even several day's observation, and additional evidence on ground water elevations must be sought.

### **CLASSIFICATION**

#### COHESIONLESS SOILS

"Trace"	:	1% to $10%$		
"Trace to some"	:	10% to 20%		
"Some"	:	20% to 35%		
"And"	:	35% to 50%		
Loose	:	0 to 9 Blows	3	
Medium Dense	:	10 to 29 Blows		or
Dense	:	30 to 59 Blows	ſ	equivalent
Very Dense	:	≥60 Blows	J	

COHESIVE SOILS

If clay content is sufficient so that clay dominates soil properties, then clay becomes the principle noun with the other major soil constituent as modifiers: i.e., silty clay. Other minor soil constituents may be added according to classification breakdown for cohesionless soils; i.e., silty clay, trace to some sand, trace gravel.

Soft Medium Stiff Very Stiff Hard :  $0.00 - 0.59 \text{ tons/ft}^2$ :  $0.60 - 0.99 \text{ tons/ft}^2$ :  $1.00 - 1.99 \text{ tons/ft}^2$ :  $2.00 - 3.99 \text{ tons/ft}^2$ :  $\geq 4.00 \text{ tons/ft}^2$ 



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### **BORING NO: 2**

PRO	JECT NA	ME: MCIE	DA Project			FILE NUMBER: 3960
LOCA	ATION: TO	own of Flo	orida, New York			OFFSET: None
DATE	E STARTI	ED/COMF	LETED: Januar	2022		SURFACE ELEV.: 475 +/- ft
ENGI	NEER/AF	RCHITEC	т:			DRILL CONTRACTOR: Aztech Environmental Technology
DRIL	LING ME	THOD: H	ollow Stem Auge	r	г	
DRIL	L RIG TY	PE: ATV				Daniel G Loucks PE
HAMI	MER WEI	GHT: 140	) Lbs			Ballston Spa New York 12020
DRO	P: 30 Incl	nes				Phone: 518-371-7622
CASI	NG DIAM	ETER: O	D/ID: 3.75 inch I	D		Fax: 518-383-2069
WATI	ER LEVE	L DEPTH	: None Observed	TIME: \	ws	
DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
-						Topsoil
1-	1	SS	8-12-10-11	22	-	Clayey Silt, trace Sand, Brown, Moist, Medium Dense (ML)
2-	2	00	7576	10		Clayey Silt, some Sand, trace Gravel, Brown, Moist, Medium
- 4	2	33	0-1-6	12		
- 5-	3	SS	11-16-14-19	30		
6-						
7-	4	SS	16-22-26-18	48		
8-						Clavey Silt, some Sand, trace to some Gravel, Dark Brown, Moist,
9-	5	SS	16-16-20-27	36		Dense (ML)
10	-					End of Boring at 10.0 Feet
11-	- - -					
12-	-					
14						
15-	-					
16-	-					
- 17-	-					
- 18–	-					
19-	-					
20-	-					
21-	-					
22-	-		,			
23-	1					
24-	1					
25-						
20-						
21-						

### **BORING NO: 3**

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PRO	JECT NA	ME: MCII	DA Project			FILE NUMBER: 3960			
LOC	ATION: To	own of Fl	orida, New York			OFFSET: None			
DATE	E STARTE	ED/COM	PLETED: Januar	y 2022		SURFACE ELEV.: 485 +/- ft			
ENGI	NEER/AF	RCHITEC	т:			DRILL CONTRACTOR: Aztech Environmental Technology			
DRIL	LING ME	THOD: H	ollow Stem Auge	er	ſ	Devial O Levels DE			
DRIL	L RIG TY	PE: ATV				PO Box 163			
HAM	MER WEI	GHT: 14	0 Lbs			Ballston Spa, New York 12020			
DROI	P: 30 Incl	nes				Phone: 518-371-7622			
CASI	NG DIAM	ETER: O	D/ID: 3.75 inch I	D		Fax: 518-383-2069			
WAT	ER LEVE	L DEPTH	I: None Observed	TIME:	WS				
DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	''N'' Value	Recovery	DESCRIPTION			
-	1		47610	12		Topsoil			
2-		33	4-7-0-12	13		Clayey Silt, trace to some Sand, trace Gravel, Brown, Moist, Medium Dense (ML)			
3-	2	SS	7-7-7-7	14					
4-									
5-	3	SS	10-12-17-19	29					
6-									
7-	4	SS	6-8-19-15	27					
8-			40.40.04.00			Clayey Silt, some Sand, trace to some Gravel, Dark Brown, Moist,			
9- - 10-	5	55	18-18-21-20	39					
 11-	-					End of Boring at 10.0 Feet			
- 12	-								
13-	-								
14-	-								
15-									
16-	-								
17-									
18-									
20-									
20 21-	-								
- 22-	-								
23-	-								
24-									
25-	-			ļ					
26-	4								
27-	<b>-</b>								

PROJ	ECT NA	NE: MCIE	DA Project			FILE NUMBER: 3960				
LOCA	ATION: To	own of Flo	orida, New York			OFFSET: None				
DATE	STARTE	D/COMF	PLETED: January	/ 2022		SURFACE ELEV.: 482 +/- ft				
ENGI	NEER/AR	CHITEC	т:			DRILL CONTRACTOR: Aztech Environmental Technology				
DRILI	LING ME	THOD: H	ollow Stem Auge	r	Г	Daniel G Loucke PE				
DRILI	L RIG TY	PE: ATV				PO Box 163				
HAM	MER WEI	GHT: 140	) Lbs			Ballston Spa, New York 12020				
DROF	P: 30 Inch	nes				Phone: 518-371-7622				
CASI	NG DIAM	ETER: O	D/ID: 3.75 inch II	) TIMET, \	MC	T ax. 310-303-2003				
WATE			: None Observed		ws					
DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION				
1-	1	SS	14-14-8-2	22		Clayey Silt, trace to some Sand, trace Gravel, Dark Brown, Moist, Medium Dense (ML) Topsoil				
2	2	SS	4-4-4-4	8		Clayey Silt, trace to some Sand, trace Gravel, Brown, Moist, Loose to Medium Dense (ML)				
	3	SS	7-7-12-13	19						
	4	SS	11-11-11-13	22		Clayey Silt, some Sand, trace Gravel, Brown, Moist, Medium Dense to Dense (ML)				
9_ 10_	5	SS	12-12-21-16	33						
11-	6	SS	8-11-7-14	- 18		Clayey Silt, some Sand, trace to some Gravel, Dark Gray, Moist, Medium Dense (ML)				
12		PA				Clayey Silt, some Gravel, trace to some Sand, Dark Gray, Moist, Medium Dense (ML)				
16-	7	SS	12-12-13-12	25						
- 18						End of Boring at 17.0 Feet				
	4									
20-	4									
21-										
22-	-									
23-	4									
24-	- -									
25-	-									
26-	1									
27-	1									

PRO	JECT NA	ME: MCI	DA Project			FILE NUMBER: 3960				
LOC	ATION: T	own of Fl	orida, New York			OFFSET: None				
DATI	E STARTI	ED/COMI	PLETED: Januar	y 2022		SURFACE ELEV.: 487 +/- ft				
ENG	INEER/AF	RCHITEC	T:			DRILL CONTRACTOR: Aztech Environmental Technology				
DRIL	LING ME	THOD: H	ollow Stem Auge	er	ſ					
DRIL	L RIG TY	PE: ATV				Daniel G Loucks PE				
НАМ	MER WEI	GHT: 14	0 Lbs			Ballston Spa, New York 12020				
DRO	P: 30 Incl	nes				Phone: 518-371-7622				
CASI	NG DIAM	ETER: O	D/ID: 3.75 inch I	D		Fax: 518-383-2069				
WAT	ER LEVE	L DEPTH	I: None Observed	TIME:	WS					
DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION				
1-	- 1	SS	16-13-4-4	17		Clayey Silt, trace Sand, Dark Brown, Moist to Wet, Medium Dense (ML) Topsoil				
2- 3-	2	SS	3-3-2-6	5		Clayey Silt, trace Sand, Brown, Moist to Wet, Loose (ML)				
4- 5-	3	SS	8-3-3-5	6		Clayey Silt, trace to some Sand, Gravel, Brown, Moist, Loose (ML)				
7-	4	SS	8-16-10-10	26		Clayey Silt, some Sand, trace Gravel, Brown, Moist, Medium Dense to Dense (ML)				
9- 10-	5	SS	10-10-20-31	30						
10 11- 12-	6	SS	6-6-11-9	17		Clayey Silt, trace to some Sand, trace Gravel, Brown, Moist, Medium Dense (ML)				
- 14-		PA				Clayey Silt, some Sand, trace to some Gravel, Dark Brown, Moist, Dense (ML)				
15-										
- 16- - 17-	7	SS	14-26-27-20	53						
18- - 19-		PA								
20- - 21- -	8	SS	11-5-7-8	12						
22- 23- 24-		PA				Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)				
- 25-										
26- 27-	9	SS	5-8-7-9	15						
	I			1						

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### **BORING NO: 5**

SHEET 2 of 2

PRO	JECT NA	ME: MCII	DA Project			FILE NUMBER: 3960
LOC	ATION: T	own of Fl	orida, New York			OFFSET: None
DATE	E STARTI	ED/COM	PLETED: Januar	y 2022		SURFACE ELEV.: 487 +/- ft
ENG	NEER/AF	RCHITEC	т:			DRILL CONTRACTOR: Aztech Environmental Technology
DRIL	LING ME	THOD: H	ollow Stem Auge	r	ſ	Deviat O Levels DE
DRIL	L RIG TY	PE: ATV				PO Box 163
HAM	MER WEI	GHT: 14	0 Lbs			Ballston Spa, New York 12020
DRO	P: 30 Incl	nes				Phone: 518-371-7622
CASI		ETER: O	D/ID: 3.75 inch II	D		Fax: 518-383-2069
WAT			I: None Observed		ws	
DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
28- 29-		PA				Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)
30 31- 32-	10	SS	5-5-8-9	13		
33- 34-		PA				
35- - 36- 37-	11	SS	5-7-8-8	15		
38- 39-		PA			-	Clayey Silt, some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)
40 41 42	12	SS	5-8-8-11	16		
43- 44- 45						Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)
43- 46- 47-						
48- 49-						
50- - 51- -						
52- 53- 54-				-		

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PRO.	JECT NAI	ME: MCII	DA Project			FILE NUMBER: 3960
LOC	ATION: To	own of Fle	orida, New York			OFFSET: None
DATE	E STARTE	ED/COMF	PLETED: Januar	y 2022		SURFACE ELEV.: 484 +/- ft
ENGI	NEER/AF	RCHITEC	T:			DRILL CONTRACTOR: Aztech Environmental Technology
DRIL	LING ME	THOD: H	ollow Stem Auge	r	ſ	Devial O Levelse DE
DRIL	L RIG TY	PE: ATV				Daniel G Loucks PE
НАМ	MER WEI	GHT: 14	0 Lbs			Ballston Spa, New York 12020
DRO	P: 30 Inch	nes				Phone: 518-371-7622
CASI	NG DIAM	ETER: O	D/ID: 3.75 inch II	D		Fax: 518-383-2069
WATI	ER LEVE	L DEPTH	I: None Observed	TIME: \	ws	
DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
-			0 0 40 47	10		Topsoil
		55	0-0-13-17	19		Clayey Silt and Sand, trace to some Gravel, Brown, Moist to Wet, Loose to Medium Dense (ML-SM)
3-	2	SS	3-2-2-2	4		
4-	-					
5-	3	SS	2-2-5-4	7		Clayey Slit, some Sand, trace Gravel, Brown, Moist, Loose (ML)
6-				1		
7-	4	SS	6-5-5-5	10		
8	-					Clayey Silt, trace to some Sand, trace Gravel, Brown, Moist,
9-	5	SS	7-11-13-15	24		Medium Dense (ML)
10-						End of Boring at 10.0 Feet
12-						
13-						
- 14-						
- 15–						
16-						
17-						
18 -						
19-						
20						
21- - 22-						
23-						
24-		•	:			
- 25-						
26-						
27	-					

#### **BORING NO: 7**

PRO	IECT NA	NE: MCIE	DA Project			FILE NUMBER: 3960
LOCA	TION: To	own of Flo	orida, New York			OFFSET: None
DATE	STARTE	D/COMF	LETED: January	/ 2022		SURFACE ELEV.: 489 +/- ft
ENG	NEER/AR	CHITEC	т:			DRILL CONTRACTOR: Aztech Environmental Technology
DRILI		THOD: H	ollow Stem Auge	r	ſ	Daniel C Laueka PE
DRILI	L RIG TY	PE: ATV				PO Box 163
HAM	MER WEI	GHT: 140	) Lbs			Ballston Spa, New York 12020
DROF	P: 30 Inch	nes				Phone: 518-371-7622
CASI	NG DIAM	ETER: O	D/ID: 3.75 inch II	D		Fax: 518-383-2069
WATE	ER LEVEI	L DEPTH	: None Observed	TIME: \	NS	
DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
-			40.0.4.4	10		Topsoil
		55	16-6-4-4	10		Clayey Silt, some Sand, trace Gravel, Moist, Medium Dense (ML)
3-	2	SS .	4-4-4-4	8		Clayey Silt, trace to some Sand, trace Gravel, Brown, Moist, Loose (ML)
4- - 5- 6-	3	SS	12-15-17-36	32		Clayey Silt, some Sand, trace Gravel, Brown, Moist, Dense (ML)
7-	4	SS	12-16-27-21	43	-	Clayey Silt, some Sand, trace to some Gravel, Dark Brown, Moist,
8 - 9	5	SS	27-33-40-46	73		Very Dense (ML)
10						End of Boring at 10.0 Feet
11-						
12-						
13- - 14-						
15-						
- 16–						
- 17-						
18-						
19-						
20-						
21-	-					
22-	4					
23						
2 <del>4</del>	- - 					
_0	-					
27-	4					

**BORING NO: 8** 

PRO	JECT NAI	ME: MCI	DA Project			FILE NUMBER: 3960
LOCA	ATION: TO	own of Fl	orida, New York			OFFSET: None
DATE	E STARTE	ED/COMF	PLETED: January	y 2022		SURFACE ELEV.: 501 +/- ft
ENGI	NEER/AF	RCHITEC	T:			DRILL CONTRACTOR: Aztech Environmental Technology
DRIL	LING ME	THOD: H	oliow Stem Auge	٢	Г	
DRIL	L RIG TY	PE: ATV				Daniel G Loucks PE
HAMI	MER WEI	GHT: 14	0 Lbs			Ballston Spa. New York 12020
DRO	P: 30 Inch	nes				Phone: 518-371-7622
CASI	NG DIAM	ETER: O	D/ID: 3.75 inch II	D		Fax: 518-383-2069
WATI	ER LEVE	L DEPTH	l: 5 ft	TIME: \	WS	
DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
1-	1	SS	10-4-4-4	8		Clayey Silt, trace Sand, Dark Brown, Moist to Wet, Loose (ML) Topsoil
2	2	SS	4-4-4-4	8		Clayey Silt, trace to some Sand, Brown, Moist, Loose (ML)
4 5	3	SS	12-16-17-17	33		Clayey Silt, trace to some Sand, Gravel, Brown, Moist, Dense (ML)
6 - 7 0	4	SS	17-22-21-32	43		
8- 9-	5	SS	22-22-27-43	49		Clayey Silt, some Sand, trace to some Gravel, Dark Brown, Moist, Dense (ML)
10	6	SS	29-28-23-27	51		Clayey Silt, some Sand, trace to some Gravel, Dark Gray, Moist, Dense (ML)
12-  13-  14-		PA				
16-	7	SS	19-20-19-20	39		
18- 19- 20-						End of Boring at 17.0 Feet
21- 22- 23-						
20 24 25-						
26- 27-						· · · · · · · · · · · · · · · · · · ·

**BORING NO: 9** 

PRO	JECT NA	ME: MCII	DA Project			FILE NUMBER: 3960
LOC	ATION: To	own of Fle	orida, New York			OFFSET: None
DATE	STARTE	ED/COMF	PLETED: Januar	y 2022		SURFACE ELEV.: 502 +/- ft
ENGI	NEER/AF	CHITEC	т:			DRILL CONTRACTOR: Aztech Environmental Technology
DRIL	LING ME	THOD: H	ollow Stem Auge	er	I	Daniel G Loucks PE
DRIL	L RIG TY	PE: ATV				PO Box 163
HAMI	MER WEI	GHT: 14	0 Lbs			Ballston Spa, New York 12020
DRO	P: 30 Inch	ies				Phone: 518-371-7622
CASI		ETER: O	D/ID: 3.75 inch I			T ax. 310-303-2003
WAII			ι: 18 π		vv3	
DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
- 1	1	99	14 2 4 2	7		Topsoil
2-			14-3-4-3			Clayey Silt, trace to some Sand, trace Gravel, Brown, Moist, Loose to Medium Dense (ML)
3-	2	SS	6-4-4-3	8		
4-						
5-	3	SS	8-8-7-6	15		
0 7 -	4	SS	27-27-33-46	60		Clayey Silt, some Sand, trace Gravel, Brown, Moist, Dense to Very Dense (ML)
9- 10-	5	SS	18-21-21-27	42		
10-	6	SS	18-23-20-38	43		Clayey Silt and Sand, some Gravel, Brown, Moist, Dense (ML-SM)
13- 14-		PA				Clayey Silt, some Sand, trace Gravel, Dark Gray, Moist, Dense (ML)
15- - 16- 17-	7	SS	32-26-27-22	53		
18- 19-		РА				Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)
20	8	SS	5-7-8-7	15		
22 - 23 - 24 -		PA				
25- 26- 27-	9	SS	4-6-5-8	11		

### BORING NO: 9 SHEET 2 of 2

LOCATION: Town of Florida, New York     OFFSET: None       DATE STARTED/COMPLETED: January 2022     SURFACE ELEV:: 502 +/- ft       ENGINEER/ARCHITECT:     DRILL CONTRACTOR: Azlech Environmental Technology       DRILL NG TYPE: ATV     Daniel G Loucks PE       PO Box 163     Ballston Spa, New York 12020       PROP: 30 Inches     CASING DIAMETER: OD/ID: 3.75 inch ID       VATER LEVEL DEPTH: 18 ft     TIME: WS       DEPTH     Sample Sample 6 inches       0     0       28     PA       30     PA       31     10       33     PA       34     PA       35     11       36     11       37     PA       38     PA       39     PA       40     PA       41     PA       42     PA       44     PA       44     PA       44     PA       44     PA       45     PA   End of Boring at 37.0 Feet	PRO.	JECT NAI	ME: MCIE	DA Project			FILE NUMBER: 3960
DATE STARTED/COMPLETED: January 2022       SURFACE ELEV: 502 +/- ft         ENGINEER/ARCHITECT:       DRILL CONTRACTOR: Aztech Environmental Technology         DRILL RIG TYPE: ATV       Daniel G Loucks PE PO Box 163         HAMMER WEIGHT: 140 Lbs       DROP: 30 Inches         CASING DIAMETER: OD/ID: 3.75 Inch ID WATER LEVEL DEPTH: 18 ft       TIME: WS         DEPTH       Sample       Sample Sample         28- 29- 30- 31- 34- 34- 34- 34- 34- 34- 34- 34- 34- 34	LOCA	ATION: To	own of Flo	orida, New York			OFFSET: None
DRILL CONTRACTOR: Aztech Environmental Technology         DRILL CONTRACTOR: Aztech Environmental Technology         DRILL RIG TYPE: ATV         HAMMER WEIGHT: 140 Lbs         DROP: 30 Inches         CASING DIAMETER: OD/ID: 3.75 inch ID         WATER LEVEL DEPTH: 18 ft       TIME: WS         DEPTH Sample Sample COUNTS per 6 inches       "N" Value Recovery COUNTS per 6 inches         28       PA         28       PA       PA       Clayery Silt, trace to some Sand, trace Gravel, Dark Gray, Molist to Wet, Medium Dense (ML)         28       PA       PA       Clayery Silt, trace to some Sand, trace Gravel, Dark Gray, Molist to Wet, Medium Dense (ML)         30       PA       PA       PA       PA         33       PA       PA       PA       PA         34       PA       PA       PA       PA         35       FA       PA       PA       PA         36       11       SS       6-5-5-9       10       End of Boring at 37.0 Feet         39       PA       PA       PA       PA       PA         34       PA       PA       PA       PA       PA <td< td=""><td>DATE</td><td>STARTE</td><td>ED/COMF</td><td>LETED: January</td><td>y 2022</td><td></td><td>SURFACE ELEV.: 502 +/- ft</td></td<>	DATE	STARTE	ED/COMF	LETED: January	y 2022		SURFACE ELEV.: 502 +/- ft
DRILLING METHOD: Hollow Stem Auger         DANIEL RIG TYPE: ATV         HAMMER WEIGHT: 140 Lbs         DROP: 30 Inches         CASING DIAMETER: OD/ID: 3.75 Inch ID         WATER LEVEL DEPTH: 18 ft         TIME: WS         DESCRIPTION         Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to         Wet, Medium Dense (ML)         Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to         Wet, Medium Dense (ML)         End of Boring at 37.0 Feet         End of Boring at 37.0 Feet	ENGI	NEER/AF	RCHITEC	Т:			DRILL CONTRACTOR: Aztech Environmental Technology
DAILL RIG TYPE: ATV         HAMMER WEIGHT: 140 Lbs         DROP: 30 Inches         CASING DIAMETER: OD/ID: 3.75 inch ID         WATER LEVEL DEPTH: 18 ft       TIME: WS         DECRIPTION         Sample       Sample       BLOW 6 inches       "N" value       Recovery       DESCRIPTION         28- 29- 30- 30- 30- 30- 30- 30- 30- 30- 30- 30	DRIL	LING ME	THOD: H	ollow Stem Auge	r	г	
HAMMER WEIGHT: 140 Lbs         DROP: 30 Inches         CASING DIAMETER: OD/ID: 3.75 inch ID         WATER LEVEL DEPTH: 18 ft       TIME: WS         Ballston Spa, New York 12020       Phone: 518-371-7622         Fax: 518-383-2069       Fax: 518-383-2069         DEPTH       Sample       Sample       BLOW COUNTS per 6 inches       rwn       Recovery       DESCRIPTION         28- 29- 30- 30- 30- 30- 30- 30- 30- 30- 30- 30	DRIL	L RIG TY	PE: ATV				Daniel G Loucks PE
BROP: 30 Inches     Column Status       CASING DIAMETER: OD/ID: 3.75 inch ID     TIME: WS       DEPTH     Sample     Sample     Sample       Sample     Sample     Sample     Column Sper     "N" Value       OEPTH     Sample     Sample     Sample     Column Sper     "N" Value     Recovery       DEPTH     Sample     Sample     Sample     Sample     Sample     Sample       28- 29- 30- 30- 30- 30- 30- 30- 30- 30- 30- 30	НАМІ	MER WEI	GHT: 140	) Lbs			PO Box 163 Ballston Sna, New York 12020
Fax: 518-383-2069         Fax: 518-383-2069         Fax: 518-383-2069         DEPTH       Sample Sample OUNTS per 6 inches       "N" Value Recovery 6 inches         28       PA       PA       COUNTS per 6 inches       "N" Value       Recovery 6 inches       Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)         28       PA       PA       Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)       Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)         30       PA       PA       End of Boring at 37.0 Feet         30       Fax: 518-383-2069       End of Boring at 37.0 Feet	DRO	<b>:</b> 30 Incl	nes				Phone: 518-371-7622
WATER LEVEL DEPTH: 18 ft     TIME: WS       Sample Number     Sample Type     BLOW CUNTS per 6 inches     "N" Value     Recovery     DESCRIPTION       28     PA     PA     Image: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)     Vet, Medium Dense (ML)       30     10     SS     6-6-11-13     17     Image: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)       31     10     SS     6-6-11-13     17     Image: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)       33     PA     PA     Image: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)       34     PA     Image: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)       35     PA     Image: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)       36     11     SS     6-5-5-9     10       37     Image: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)     Image: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)       38     PA     Image: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)       40     Image: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)       41	CASI	NG DIAM	ETER: O	D/ID: 3.75 inch II	D		Fax: 518-383-2069
Sample NumberSample TypeBLOW COUNTS per 6 inches"N" ValueRecoveryDESCRIPTION28 29 30 30 31 31 32 33 34 34 35 36 36 36 31PAImage: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)28 30 30 31 32 33 34 35 36 36 36 36 37 37 38 39 40 40 41- 41- 42- 43- 44- 45-PAImage: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)29 30 30 31 32 33 34 34 35PAImage: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)10 33 34 35 36 36 36 37 37 37 38 39 40- 40- 41- 41- 41- 41- 44- 44- 44- 44- 45-PA11 42 44- 44- 45-PAImage: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)20 41 44- 45-PAImage: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)33 44- 44- 44-PAImage: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)44- 45-PAImage: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)44- 45-PAImage: Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)	WATI	ER LEVE	L DEPTH	: 18 ft	TIME: \	ws	
28- 29- 30     PA     PA     Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to Wet, Medium Dense (ML)       30- 30- 30- 30- 30- 30- 31- 32- 33- 34- 34- 35- 36- 11     PA     17       32- 33- 34- 35- 36- 36- 36- 37- 39- 40- 41- 41- 42- 43- 43- 44- 45-     PA     10       5     6-5-5-9     10	DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	''N'' Value	Recovery	DESCRIPTION
28-     PA     PA       30     -       30     -       31     10       32     -       33-     PA       34-     PA       35-     -       36-     11       37-     -       38-     -       39-     -       40-     -       41-     -       43-     -       43-     -       43-     -       44-     -       43-     -		-					Clayey Silt, trace to some Sand, trace Gravel, Dark Gray, Moist to
23-       10       SS       6-6-11-13       17         32-       94-       PA       94-       94-         35-       11       SS       6-5-5-9       10         37-       94-       94-       94-       94-         40-       14-       14-       14-       14-         42-       14-       14-       14-       14-         43-       14-       14-       14-       14-         43-       14-       14-       14-       14-         44-       14-       14-       14-       14-	28-		PA				Wet, Medium Dense (ML)
31     10     SS     6-6-11-13     17       32	29-						
32	31-	10	SS	6-6-11-13	17		
33     PA     PA       34     PA       35     11       36     11       37     SS       38     SS       39       40       40       41       42       43       43       44       45	32-						
34-     PA     End of Boring at 37.0 Feet       36-     11     SS     6-5-5-9     10       37-     -     -     -       38-     -     -     -       39-     -     -     -       40-     -     -     -       41-     -     -     -       42-     -     -     -       43-     -     -     -       43-     -     -     -       44-     -     -     -       45-     -     -     -	33-	-					
35     -     -     -       36     11     SS     6-5-5-9     10       37     -     -     -       38     -     -     -       39     -     -     -       40     -     -     -       41     -     -     -       42     -     -     -       43     -     -     -       44     -     -     -	34-	4	PA				
36       11       SS       6-5-5-9       10         37	35-						
37       End of Boring at 37.0 Feet         38       39         40       41         41       42         43       44         45       45	36-	11	SS	6-5-5-9	10		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	37-						End of Boring at 37.0 Feet
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	38-	-					
40 - 41 - 41 - 42 - 43 - 43 - 44 - 45 - 45 - 45 - 45 - 45	39-	-					
$41^{-}$ $42^{-}$ $43^{-}$ $44^{-}$ $45^{-}$	40-						
43 - 44 - 45 - 45 - 45 - 45 - 45 - 45 -	41-						
	43-	-					
	44-	-					
	45-	-					
46	46-	4					
47-]	47-						
48-	48-						
49	49-	1					
	50-	4					
	51-						
	52-	1					
	53-						

### **BORING NO: 11**

PRO	JECT NAI	NE: MCIE	DA Project			FILE NUMBER: 3960
LOCA	ATION: To	own of Flo	orida, New York			OFFSET: None
DATE	STARTE	ED/COMF	PLETED: Januar	/ 2022		SURFACE ELEV.: 515 +/- ft
ENGI	NEER/AF	RCHITEC	т:			DRILL CONTRACTOR: Aztech Environmental Technology
DRIL	LING ME	THOD: H	ollow Stem Auge	r	٦	Daniel G Loucks PE
DRILI	L RIG TY	PE: ATV				PO Box 163
HAM	MER WEI	GHT: 140	) Lbs			Ballston Spa, New York 12020
DROF	<b>P: 30 Inc</b> ł	nes				Phone: 518-371-7622
CASI	NG DIAM	ETER: O	D/ID: 3.75 inch I	D		Fax. 516-363-2009
WATI			: 6 ft		ws	
DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
-	4	00	4222	6		Topsoil
2-		55	4-3-3-2	0		Clayey Silt, trace to some Sand, trace Gravel, Brown, Moist, Loose (ML)
3-	2	SS	5-4-3-3	7		Clayey Silt and Sand, trace Gravel, Brown, Moist to Wet, Loose
4-						
5-	3	SS	2-4-6-8	10		
6- - 7-	4	SS	12-27-19-23	46		Clayey Silt, some Sand, trace Gravel, Brown, Moist to Wet, Medium Dense to Dense (ML)
8- 9-	5	SS	11-11-13-10	23		
10-	6	SS	7-9-9-11	18		Clayey Silt, some Sand, trace to some Gravel. Dark Brown, Moist to Wet, Medium Dense (ML)
12-	7			100+		No Recovery
13- - 14-	1					End of Boring at 12.6 Feet Power Auger Refusal
- 15-						
- 16–	-					
17-						
18-						
19-	-					
20	-					
21-						
22 - 23-						
_0 24-	-					
25-	4					
26-	1					
27-	1					

### **BORING NO: 10**

PRO	JECT NA	ME: MCI	DA Project			FILE NUMBER: 3960
LOC	ATION: To	own of Flo	orida, New York			OFFSET: None
DATE	E STARTE	ED/COMF	PLETED: January	/ 2022		SURFACE ELEV.: 507 +/- ft
ENG	NEER/AF	RCHITEC	T:			DRILL CONTRACTOR: Aztech Environmental Technology
DRIL	LING ME	THOD: H	ollow Stem Auge	r	ſ	
DRIL	L RIG TY	PE: ATV				Daniel G Loucks PE
HAM	MER WEI	GHT: 14	0 Lbs			Ballston Spa. New York 12020
DRO	P: 30 Inch	nes				Phone: 518-371-7622
CASI	NG DIAM	ETER: O	D/ID: 3.75 inch II	D		Fax: 518-383-2069
WAT	ER LEVE	L DEPTH	I: None Observed	TIME: \	WS	
DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
			0 - 0 4			Topsoil
1- - 2-	1	55	9-5-3-4	8		Clayey Silt, trace to some Sand, trace Gravel, Brown, Moist, Loose (ML)
3-	2	SS	6-5-6-12	11		Clayey Silt, some Sand, trace Gravel, Brown, Moist, Medium Dense (ML)
5-	3	SS	11-12-13-15	25		
6- 7-	4	SS	15-17-24-23	41		Clayey Silt, some Sand, trace to some Gravel, Brown, Moist, Dense (ML)
8- 9-	5	SS	15-18-30-30	48		Clayey Silt, some Sand, trace Gravel, Dark Brown, Moist, Dense (ML)
10- - 11- 12	6	SS	14-14-43-31	57		Clayey Silt, some Sand, trace Gravel, Dark Gray, Moist, Dense to Very Dense (ML)
12- - 13- - 14-		PA				
15- 16-	7	SS	20-23-27-17	50		
17 - 18 19		PA				
20-	8	SS	30-50	80+		Clayey Silt and Gravel, trace to some Sand, Dark Gray, Moist,
21-						Very Dense (ML-GM) End of Boring at 21.0 Feet
22-						Split Spoon Řefusal
_0 24-						
25-						
- 26-						
27-						



### **Search Information**

Address:	2018 NY-5S, Amsterdam, NY 12010, USA
Coordinates:	42.93706189999999, -74.26052969999999
Elevation:	489 ft
Timestamp:	2022-02-04T16:02:29.891Z
Hazard Type:	Seismic
Reference Document:	ASCE7-16
Risk Category:	I
Site Class:	D







### **Basic Parameters**

Name	Value	Description
SS	0.217	MCE <sub>R</sub> ground motion (period=0.2s)
S <sub>1</sub>	0.063	MCE <sub>R</sub> ground motion (period=1.0s)
S <sub>MS</sub>	0.347	Site-modified spectral acceleration value
S <sub>M1</sub>	0.15	Site-modified spectral acceleration value
S <sub>DS</sub>	0.231	Numeric seismic design value at 0.2s SA
S <sub>D1</sub>	0.1	Numeric seismic design value at 1.0s SA

### Additional Information

Name	Value	Description
SDC	В	Seismic design category
Fa	1.6	Site amplification factor at 0.2s



**Design Horizontal Response Spectrum** 



Fv	2.4	Site amplification factor at 1.0s
CR <sub>S</sub>	0.945	Coefficient of risk (0.2s)
CR <sub>1</sub>	0.922	Coefficient of risk (1.0s)
PGA	0.12	MCE <sub>G</sub> peak ground acceleration
F <sub>PGA</sub>	1.56	Site amplification factor at PGA
PGA <sub>M</sub>	0.187	Site modified peak ground acceleration
TL	6	Long-period transition period (s)
SsRT	0.217	Probabilistic risk-targeted ground motion (0.2s)
SsUH	0.23	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.063	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.068	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGAd	0.5	Factored deterministic acceleration value (PGA)

Hazard loads are provided by the U.S. Geological Survey Seismic Design Web Services.

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# CONSTRUCTION TECHNOLOGY

INSPECTION & TESTING DIVISION, P.D.& T.S., INC. 4 William Street, Ballston Lake, New York 12019 Phone: (518) 399-1848 Email: constructiontech@live.com

#### CLIENT: DANIEL LOUCKS, P.E.

POST OFFICE BOX 163 BALLSTON SPA, NEW YORK 12020 REPORT DATE: 02/02/22 SAMPLE NUMBER: 21648 OUR FILE NO: 750.001 *Robert Behan* REVIEWED BY: ROBERT BEHAN, NICET

ATTN: MR. DANIEL LOUCKS, P.E. PROJECT: MCIDA: AMSTERDAM, NEW YORK

ASTM C136 / C117 / D422: SIZE DISTRIBUTION OF SOIL & AGGREGATES: SIEVE ANALYSIS

MATERIAL SOURCE:CLIENT ID: SB-8, 2'-4'MATERIAL DESCRIPTION:SILT/CLAY; and fine Sand; trace fine GravelMATERIAL PROJECT USE:PER CLIENT:EVALUATION SPECIFICATION:PER CLIENT:

COARSE SIEVE SERIES: US STANDARD				MEDIUM SIEVE SERIES: US STANDARD				FINE SIEVE SERIES: US STANDARD			
SIEVE	PERCENT F	PERCENT	SPECIFICATION	SIEVE	PERCENT	PERCENT	SPECIFICATION	SIEVE	PERCENT	PERCENT	SPECIFICATION
SIZE	RETAINED	PASSING	ALLOWANCE	SIZE	RETAINED	PASSING	ALLOWANCE	SIZE	RETAINED	PASSING	ALLOWANCE
4"				1/4"	3.6	96.4		#50	22.7	77.3	
3"				#4	5.6	94.4		#60			
2 1/2"				1/8"				#80			
2"				#8	9.2	90.8		#100	33.7	66.3	
1 1/2"				#10				#140			
1"				#16	12.0	88.0		#200	42.7	57.3	
3/4"				#20				SILT			
1/2"		100.0		#30	16.0	84.0		CLAY			
3/8"	2.3	97.7		#40	18.9	81.1		COLLOID			


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### CLIENT: DANIEL LOUCKS, P.E.

POST OFFICE BOX 163 BALLSTON SPA, NEW YORK 12020

ATT'N: MR. DANIEL LOUCKS, P.E. PROJECT: MCIDA: AMSTERDAM, NEW YORK

	Robert Behan	
OUR FILE NO:	750.001	
SAMPLE NUMBER:	21649	
REPORT DATE:	02/02/22	

REVIEWED BY: ROBERT BEHAN, NICET

### ASTM C136 / C117 / D422: SIZE DISTRIBUTION OF SOIL & AGGREGATES: SIEVE ANALYSIS

MATERIAL SOURCE:CLIENT ID: SB-9, 4'-6'MATERIAL DESCRIPTION:SILT/CLAY; and fine Sand; trace fine GravelMATERIAL PROJECT USE:PER CLIENT:EVALUATION SPECIFICATION:PER CLIENT:

COA	RSE SIEVE	SERIES: U	S STANDARD	MEI	DIUM SIEVE	SERIES:	US STANDARD	FINE	SIEVE SE	RIES: US S	TANDARD
SIEVE	PERCENT	PERCENT	SPECIFICATION	SIEVE	PERCENT	PERCENT	SPECIFICATION	SIEVE	PERCENT	PERCENT	SPECIFICATION
SIZE	RETAINED	PASSING	ALLOWANCE	SIZE	RETAINED	PASSING	ALLOWANCE	SIZE	RETAINED	PASSING	ALLOWANCE
4"				1/4"	6.0	94.0		#50	28.2	71.8	
3"				#4	7.6	92.4		#60			
2 1/2"				1/8"				#80			
2"				#8	12.0	88.0		#100	38.7	61.3	
1 1/2"				#10				#140			
1"				#16	16.1	83.9		#200	46.8	53.2	
3/4"		100.0		#20				SILT			
1/2"	1.9	98.1		#30	21.0	79.0		CLAY			
3/8"	4.1	95.9		#40	24.1	75.9		COLLOID			



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#### CLIENT: DANIEL LOUCKS, P.E.

POST OFFICE BOX 163 BALLSTON SPA, NEW YORK 12020

ATTN: MR. DANIEL LOUCKS, P.E. PROJECT: MCIDA: AMSTERDAM, NEW YORK

REPORT DATE:	02/02/22
SAMPLE NUMBER:	21650
OUR FILE NO:	750.001
	Robert Behan
REVIEWED BY:	ROBERT BEHAN, NICET

### ASTM C136 / C117 / D422: SIZE DISTRIBUTION OF SOIL & AGGREGATES: SIEVE ANALYSIS

MATERIAL SOURCE:	CLIENT ID: SB-10, 4'-6'
MATERIAL DESCRIPTION:	SILT/CLAY; and fine Sand; little fine Gravel
MATERIAL PROJECT USE:	PER CLIENT:
EVALUATION SPECIFICATION:	PER CLIENT:

COA	RSE SIEVE	SERIES: U	S STANDARD	MEI	DIUM SIEVE	SERIES: U	JS STANDARD	FINE	SIEVE SE	RIES: US	STANDARD
SIEVE	PERCENT	PERCENT	SPECIFICATION	SIEVE	PERCENT	PERCENT	SPECIFICATION	SIEVE	PERCENT	PERCENT	SPECIFICATION
SIZE	RETAINED	PASSING	ALLOWANCE	SIZE	RETAINED	PASSING	ALLOWANCE	SIZE	RETAINED	PASSING	ALLOWANCE
4"				1/4"	12.0	88.0		#50	32.6	67.4	
3"				#4	13.4	86.6		#60			
2 1/2"				1/8"				#80			
2"				#8	18.7	81.3		#100	42.3	57.7	
1 1/2"				#10				#140			
1"		100.0		#16	22.3	77.7		#200	50.7	49.3	
3/4"	9.5	90.5		#20				SILT			
1/2"			Í	#30	26.7	73.3		CLAY			
3/8"	10.5	89.5		#40	_29.3	70.7		COLLOID			



## CONSTRUCTION TECHNOLOGY

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### CLIENT: DANIEL LOUCKS, P.E.

POST OFFICE BOX 163 BALLSTON SPA, NEW YORK 12020 REPORT NUMBER: 1 : PAGE: 1 REPORT DATE: 02/02/22 OUR FILE NUMBER: 750.001 LAB CONTROL NUMBER: 21651

### ATT'N: MR. DANIEL LOUCKS, P.E.

### PROJECT: MCIDA: AMSTERDAM, NEW YORK

### DETERMINATION OF PLASTICITY INDEX & WATER (MOISTURE) CONTENT IN SOILS

SAMPLE ID: CLIENT ID: SB-5, 35'-37' ASTM D-4318 LIQUID LIMIT 23.1%

ASTM D-4318 PLASTIC LIMIT **14.3%**  ASTM D-4318 PLASTICITY INDEX 9

REPORT DISTRIBUTION	RESPECTFULLY SUBMITTED,
1: FILE	CONSTRUCTION TECHNOLOGY
2:	Robert Behan
3:	ROBERT BEHAN (NICET)
4:	MANAGER TECHNICAL SERVICES

Table 3.5 Unified Soil Classification

J

	icics larger i estima	than 3 in. and t ted weights)	basing fraction	ro s	Symbols	Typical Names	Information Required for Describing Soils		L L	aboratory Classification	
f coarse size size sed as	fines) an gravels fines)	Wide range i amounts o sizes	n grain size al f all interme	nd substantial diate particle	ЯЮ	Well graded gravels, gravel- sand mixtures, little or no fines	Give typical name; indicate ap- proximate percentazes of said	szis ń .oV n :swol	Jo es	$C_{\rm U} = \frac{D_{\rm f0}}{D_{\rm 10}} = \frac{0}{\rm Greater than 4}$ $C_{\rm 0} = \frac{D_{\rm 20}}{10^{20} {\rm ^3}} = 0$ Between 1 z	and 3
vels y bc us i larger vels vels	Clei	Predominantl with some	y one size or a intermediate.	range of sizes sizes missing	GP	Poorly graded gravels, gravel- sand mixtures, little or no fines	and gravel; maximum size; angularity, surface condition, and hardness of the coarse	n grain ler thai let thai	n Suit	Vot meeting all gradation requiren	ments for GW
Gra Bre than action is No. 4 size ma size ma	es) coindic coindic tint of coindic co	Nonplastic fit cedures see	nes (for ident ML below)	ification pro-	ВM	Silty gravels, poorly graded gravel-sand-silt mixtures	grains; local or geologic name and other pertinent descriptive information; and symbols in parentheses	1 and fron classified Classified	si ses redni SC	Atterberg limits below Above	e "A" line h PI between
Mc fr fr fr fr fr fr fr fr fr fr	NEIÐ IG IG IG IG IG IG IG IG IG	Plastic fines (fi see CL belo	or identificatio w)	n procedures,	ບບ	Claycy gravels, poorly graded gravel-sand-clay mixtures	For undisturbed soils add informa- tion on stratification, degree of	rification el and s es (fract soils are GP, SW	al symbo alline can GC, SM	Atterberg limits above bore	and 7 are <i>derline</i> cases uiring use of al symbols
f coarse st than ize saification, valent to th	fic or no tic or no sands	Wide range in amounts of sizes	t grain sizes ar f all intermet	id substantial diate particle	ALS	Well graded sands, gravelly sands, little or no fines	The second secon	r field iden ses of grav riage of fin riage of fin riage grained: GW, i	np snp sprog WD	$\partial_{U} = \frac{D_{60}}{D_{10}}  \text{Greater than 6}$ $\partial_{0} = \frac{(D_{30})^{3}}{(D_{30})^{3}}  \text{Between 1 a}$	and 3
Sands half o small sicve s sicve s viug clau equiv	Cie Cie	Predominantly with some	y one size or a intermediate	range of sizes sizes missing	SP	Poorly graded sands, gravelly sands, little or no fines	hard, angular gravel particles 4-in. maximum size; rounded and subangular sand grains	n 5% room ercents ercents ercents room room room room room room room roo	%71 ut	V10 × V60 Not meeting all gradation require:	ments for SW
nsdi ərc action i No. 4 Vo. 4	ines ines innt of innt of innt of innt of	Nonplastic fin cedurcs, s	tes (for identi ce ML below)	ification pro-	MS	Silty sands, poorly graded sand- silt mixtures	coarse to fine, about 15% non- plastic fines with low dry strength; well compacted and moist in place: allivits leard.	s as give via 25 : ve ve ve via 20 vibr via 22 via	1 of %	Atterberg limits below Above "A" line or PI less than with	c "A" line h PI between
i) I	dqe) f aqqe) f	Plastic fines (fc see CL belov	or identificatio w)	n procedures,	sc	Clayey sands, poorly graded sand-clay mixtures	(WS)	Dete Dete Dete Dete	s c	Atterberg limits below bore "A." line with pr	and 7 arc derline cases uiring use of
Identification P	rocedures of	n Fraction Sma	lier than No.	40 Sieve Size				IT SI		greater than 7 dua	al symbols
s.	1	Dry Strength, (crushing character- istica)	Dilatancy (reaction to shaking)	Toughness (consistency near plastic limit)				irill contrying th	Comparing s	cols at equal figuid fimit	
alo bas s Juid limi R nad 22	<b>ا</b>	None to slight	Quick to slow	None	TM	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands with slight plasticity	Give typical name; indicate degree and character of plasticity, arnount and maximum size of	xsbni Xsbni S 5	Toughness al	nd dry strength increase	
ilis Iid Iid		Mcdium to high	None to very slow	Medium	5	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, slity clays, lean, claus	coarse grains; colour in wet condition, odour if any, local or geologic name, and other perti- nent descriptive information,	in size ci			
		Slight to medium	Slow	Slight	07	Organic silts and organic silt- clave of low monthly.	and symbol in parentheses For indisturbed soils and inc.	818 3 			
िटीबपुड गिलार राम्रत		Slight to medium	Slow to none	Slight to medium	НИ	Inorganic silts, micaccous or diatomaccous fine sandy or	mation on structure, stratifica- tion, consistency in undisturbed and removided states moiouve	يں م			
or duid ne s: ne s:		High to very high	None	High	CH	Inorganic clays of high plas-	and drainage conditions	<b>.</b>	07 0T	0 30 40 50 60 70 80 Liauid limit	90 100
1112 1112 118		Medium to high	None to very slow	Slight to medium	HO	Organic clays of medium to high	Clayey silt, brown; slightly			Plasticity chart	
ghly Organic Sol	ils	Readily ident spongy feel texture	ified by collard	our, odour, y by fibrous	ä	Peat and other highly organic soils	plastic; small percentage of fine sand; numerous vertical root holes; firm and dry in place; hores; fMr)	for	laborato	ry classification of fine grain	ned soils
ner, 1957. • classifications. sizes on this cha	Soils posses	ssing characteris standard	stics of two gi	roups are desig	mated by	combinations of group symbols. F	For example GW-GC well and d				
procedures are to Reaction to shak	) be perform ding):	ed on the minus	s No. 40 sieve :	size particles, aj Di	Field I pproximat	tentification Procedure for Fine Gra siy 364 in. For field classification pi t (Crushing characteristics)	ained Solls or Fractions urposes, screening is not intended, sin	rel-same mixtur ply remove by ]	c with cla hand the c	ly bunder. Soarse particles that interfere with	1 the tests.
	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	All of the state of the sta	estimated weights) Sands With More than half of coarse More than half of coarse amount of high of more More than half of coarse amount of high of more More than half of coarse amount of high of more amount of high to Non plasting high to high to hi	estimated weights) certated weights) certates with some intermediate certated weights) certates see ML below) certates see ML b	Contracted weights)         Contracted weights)           Contract of a contract of	Citimated Weights)         Convols           Convols	Anti- climated weights)         Anti- climated servels, include servels, include servels, include servels and anxies, intle or no manual server any of all intermediate particle and any of all intermediate stars missing any of an intermediate stars missing and any of an intermediate stars missing and any of all intermediate stars and substantial and and any of all intermediate stars and substantial and any of all intermediate stars and and and any of all intermediate stars and and and any of all and and and any of and and and and and any of and and and	Contraction	John Amerikan Description Biology Biolo	Array contract is the state of states in the state of states	Antender Statistic         Antende

After removing particles larger than No. 40 sieve size, prepare a pat of Miler removing particles larger than No. 40 sieve size, prepare a pat of water if necessary to make the soil soft turbic inck. Add enough water if necessary to make the soil soft but not sticky. Place the pat in the opean path of one hand and shake horizontally, striking vigorously against the other hand several times. A positive reaction consists of the appearance of water on the surface of the raw which stranges to a livery consistency and becomes glossy. When the sample is squeezed between the fingers, the water and gloss disappear from the surface, the pat siftens and finally it creates or trumbles. The rapidity of appearance of water on the surface the rapidity squeezing assist in fleatifying the charactes or the fines in a soil. Very fine clean stands give the quickett and most disting reaction whereas a plastic chan an or reaction. Intogrante slits, such as a typical rock flour, show a moderately quick reaction.

Dry Strength (Crushing characteristics). After removing particles larger than No. 40 sieve size, mould a pat of soil dry completely by oven, part of adding water firecessary. Allow the pat to breaking and crumbling between the fingers. This strength is a measure of the character and quantity of the colloidal fraction contained in the High dry strength increases with increasing plasticity. Argin fraction soft is possesses only very slight dry strength, is and increasing silfs have about the same silfs dry strength. Silfy fine sands by the feel when powdering the dried apeciment. Fine sand fiscinguished whereas a typical slift has the smooth feel of flour.

Torgimess (Consistency near plastic limit): After removing particles larger than the No. 40 size size, a specimen of putty. If too dry, water must be added and if sticky, the specimen should be spread out in a thin layer and allowed to lose some moisture by evaporation. Then the specimen is rolled out by hand on a smooth aimeter. The thread is than layer and allowed to lose some moisture by evaporation. Then the specimen is rolled out by hand on a smooth diameter. The thread is that foolded and te-rolled repeatedly. During this manupulation the moisture content is gradually reduced and the predimen stiffer thanky loses its plasticity, and crumbles when the main this reached. The torget in analy loses its plasticity, and crumbles when sight kneading ston continued until the lump cumbles. The tougher the thread near the plastic limit and due to lose the lump when sight kneading ston continued until the lump cumbles. The tougher the thread near the plastic limit and due to lose the softence of the lump below the plastic limit and due to lose clay of low plasticily or materials such as kaolin-type clays and organic days when down the Alme.

					Soil Charac	teristics Perfinent to	9 Roads and Airfield	į					
Major Div	isions.	Letter	Name	Value as	Value oc								
		Ξ		Subgrade When Not Subject to Frost Action	Subbase When Not Subject to Frost Action	Base When Not Subject to Freed Action	Fotential Frost Action	Compressibility and Expansion	Drainage Characteristics	Compaction Equipment	Unit Dry Weight	Typical Des CBR	sign Values Subgrade
-		ΔW	Well-graded gravels or gravel-sand mixtures. little or no fines	Excellent	Excellent	Good	None to very	Almost none	Rrellant	· · · · · · · · · · · · · · · · · · ·	G. P.	8	b. per cu. in.
		8	Poorly graded gravels of oravel-sand	Gond to evcellant			slight		1UAUAA	roller, steel-wheeled roller	125-140	40-80	300-500
	GRAVEL AND		mixtures, little or no fines		0000	Fair to good	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired roller, steel-wheeled roller	110-140	30-60	300-500
	GRAVELLY SOILS	B NB	mix gravets, gravet-sund-suit mixtures	Good to excellent	Good	Fair to good	Slight to medium	Very slight	Fair to poor	Rubber-tired roller, sheepsfoot roller; close control of moisture	125-145	40-60	300-500
		·		0000	Fair	Poor to not suitable	Slight to medium	Slight	Poor to practically impervious	Rubber-tired roller, sheepsfoot roller	115-135	20-30	200-500
COARSE-		3	Luiyey gravels, gravel-sand-clay mixtures	Good	Fair	Poor to not suitable	Slight to medium	Slight	Poor to practically impervious	Rubber-tired roller, sheepsfoot roller	130-145 ·	20-40	200-500
GRAINED SOILS		SW	Well-graded sands or gravely sands, little or no fines	Good	Fair to good	Poor	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired	110-130	20-40	200-400
	SAND	сs С	Poorly graded sands or gravely sands, little or no fines	Fair to good	Fair	Poor to not suitable	None to very	Almost none	Excellent	router Crawler-type tractor, rubber-tired	. 135	10 40	
	SANDY	σ	Silty sands, sand-silt mixtures	Fair to good.	Fair to good	Poor	Stight to high			roller		0t-01	004-001
	SUIDS	SM u					ugin ol mgue	Very slight	Fair to poor	Rubber-tired roller, sheepsfoot roller; close control of moisture	120-135	15-40	150-400
				Hair	Poor to fair	Not suitable	Slight to high	Slight to medium	Poor to practically immervious	Rubber-tired roller, sheepsfoot roller	100-130	10-20	100-300
		SC	Clayey sands, sand-clay mixtures	Poor to fair	Poor	Not suitable	Slight to high	Slight to medium	Poor to practically	Rubber-tired roller, sheepsfoot	100-135		000
		ML	Inorganic silts and very fine sands,	Poor to fair	Not suitable	Not suitable	Medium to verv	Slight to medium	impervious	roller		17-0	
	SILTS AND		or clayey silts with slight plasticity				high		Fair to poor	Rubber-tired roller, sheepsfoot roller; close control of moisture	051-06	15 or less	100-200
	CLAYS LL IS LESS THAN 50	ರ	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	Poor to fair	Not suitable	Not suitable	Medium to high	Medium	Practically impervious	Rubber-tired roller, sheepsfoot roller	90-130	15 or less 5	0-150
FINE- GRAINED SOILS		6	Organic silts and organic silt-clays of low plasticity	.P'oor	Not suitable	Not suitable	Medium to high	Medium to high	Poar	Rubber-tited roller, sheepsfoot coller	90-105	i or less 5	0-100
	SILTS	НМ	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	Poor	Not suitable	Not suitable	Medium to very high	High	Fair to poor	Sheepsfoot roller, rubber-tired roller	80-105	0 or less 5	0-100
	CLAYS LL IS GREATER	£	Inorganic clays of medium to high plasticity, organic silts	Poor to fair	Not suitable	Not suitable	Medium	High	Practically	Sheepsfoot roller, rubber-tired	90-115	5 or less 5	0-150
	THAN 50	ЮН	Organic clays of high plasticity, fat clays	Poor to very poor	Not suitable	Not suitable	Medium	High	Tactically	Sheepsfoot roller, rubber-tired	80-110	or less 3	5-100
HIGHLY ORGAN	tic Soirs	z	Peat and other highly organic soils	Not suitable	Not suitable	Vot suitable	Slight	Very high	apervious 1	foller Ommartion not musical			201-2
											<u>'</u>	<u>-</u>	 

(2) The maximum value that can be used in design of airfields is, in some cases, limited by gradation and plasticity requirements.

1

Note: (1) Unit Dry Weights are for compacted soil at optimum moisture content for molified AASPO compacted neffort. Division of GM and SM groups into subdivision of and u are for neas and airfields only. Subdivision is basis of Aureberg limits suffix d (e.g., GMd) will be used when the liquid limit (LL) is 25 or less and the plasticity index is 6 or less, the suffix u will be used otherwise.

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### GENERAL QUALIFICATIONS

This report has been prepared in order to aid in the evaluation of this property and to assist the architect and/or engineer in the design of this project. The scope of the project and location described herein, and my description of the project represents my understanding of the significant aspects relevant to soil and foundation characteristics. In the event that any changes in the design or location of the proposed facilities, as outlined in this report, are planned, I should be informed so the changes can be reviewed and the conclusions of this report modified or approved in writing by myself.

It is recommended that all construction operations dealing with earthwork and foundations be inspected by an experienced soil engineer to assure that the design requirements are fulfilled in the actual construction. If you wish, I would welcome the opportunity to review the plans and specifications when they have been prepared so that I may have the opportunity of commenting on the effect of soil conditions on the design and specifications.

The analysis and recommendations submitted in this report are based upon the data obtained from the soil borings and/or test pits performed at the locations indicated on the location diagram and from any other information discussed in the report. This report does not reflect any variations which may occur between these boring and/or test pits. In the performance of subsurface investigations, specific information is obtained at specific locations at specific times. However, it is a well-known fact that variations in soil and rock conditions exist on most sites between boring locations and also such situations as groundwater conditions vary from time to time. The nature and extent of variations may may not become evident until the course of construction. If variations then appear evident, it will be necessary for a reevaluation of the recommendations of this report after performing on-site observations during the construction period and noting the characteristics of any variations.



1 DEPARTMENTAL AREA PLAN +A2.102 1" = 30'-0"



Schematic Design

**PROJECT GOOSE** Florida, NY | 8/30/2022



# Departmental Measured Areas

- Admin + HR Offices Welfare Amenities + Support Entry + Driver Welfare
- Dispatch Office Battery Charge - Ambient WH Maintenance FP/Elect Trailer Wash Cold Dock S+R Office 50degF Fresh Cooler RF/Print Riser Room 35degF Cooler -10degF Freezer
- -20degF Freezer

Area Schedule (De	partmental Areas)
Area_Department	Area
Admin + HR Offices	4,928 SF
Welfare Amenities + Support	6,910 SF
Entry + Driver Welfare	1,898 SF
Dispatch Office	2,504 SF
Trailer Wash	1,653 SF
Cold Dock	28,262 SF
35degF Cooler	44,657 SF
-10degF Freezer	30,929 SF
-20degF Freezer	11,203 SF
50degF Fresh Cooler	11,646 SF
RF/Print	359 SF
Maintenance	4,807 SF
FP/Elect	543 SF
Battery Charge - Ambient WH	15,514 SF
S+R Office	1,356 SF
Riser Room	171 SF
Riser Room	171 SF
Grand total	167,511 SF

Maximum Number of Employees: 160

Seating Capcity: • Dining: 120 • Training: 24 • Conference: 14

Parking Requirements: See Civil Drawings for Summary













### EAST ELEVATION 1" = 20'-0"

1" = 20'-0"

Schematic Design





Conc Foundation
 Paint Gray-2



Lamar Johnson Collaborative っ Copyright © 2019 Lamar Johnson Collaborative







Schematic Design

**PROJECT GOOSE** Florida, NY | 8/30/2022













ENLARGED WEST ELEVATION 1/4" = 1'-0"

Schematic Design











LOCATION MAP

1



# PROJECT CONT

4

OWNER	D 10 G
CIVIL ENGINEER	E 3 №
LAND SURVEYOR	S 1 D
CONTRACTOR	C 2 B S
PLANNING BOARD	T 2 A
BUILDING DEPARTMENT	T 2

# COLD STORAGE **DISTRIBUTION CENTER**

5

# DOLLAR GENERAL FRESH

AMSTERDAM, NEW YORK

SHE	ET	DEX					
					E PLAN REVIEW - SEPTEMBER 1, 2022		<ul> <li>ISSUED FOR REFERENCE ONLY</li> <li>ISSUED</li> </ul>
					SITE	SHT NO.	SHEET TITLE
						C-000	COVER SHEET
						C-001	ALTA SURVEY - SHEET 1 OF 2
						C-002	ALTA SURVEY - SHEET 2 OF 2
					•	C-010	EXISTING CONDITIONS AND DEMOLITION PLAN
						C 101	
						0-101	SITE PLAN
					•	C-201	GRADING PLAN
					•	C-211	EROSION & SEDIMENT CONTROL PLAN
					•	C-301	UTILITY PLAN
						L-101	LANDSCAPE PLAN

LLAR GENERAL	KACEY LEVINE
MISSION RIDGE ODLETTSVILLE, TN 37072	T (404) 309-9846 klevine@dollargeneral.com
AN DESIGN LAB, INC.	MARCIE WESLOCK, PE
) 4TH AVENUE S, SUITE 1006 INEAPOLIS, MN 55415	T (612) 260-7981 MWESLOCK@ELANLAB.COM
SAN M. ANACKER, PLS, PLLC 82 DAVIS ROAD EAST	SUSAN ANACKER, PLS
ERFIELD, NY 13502	T (315) 724-6800
AYCO, INC	DARREN LACKEY
SINESS CENTER DRIVE LOUIS, MO 63114	T (312) 239-1282 LACKEYD@CLAYCORP.COM
WN OF FLORIDA	MIKE TAYLOR
STERDAM, NY 12010	T (518) 729-8090
WN OF FLORIDA	
FORT HUNTER RD STERDAM. NY 12010	T (518) 843-6372





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**DOLLAR GENERAL** DOLLAR GENERAL CORPORATION 100 MISSION RIDGE GOODLETTSVILLE, TN 37072 PROJECT COLD STORAGE WAREHOUSE 20XX NY HWY 5S AMSTERDAM, NEW YORK SHEET INDEX SITE PLAN REVIEW 09/01/2022 SITE PLAN REVIEW 09/01/2022 CERTIFICATION CONSTRUC. UNAUTHORIZED ALTERATION OR ADDITION TO ENGINEERING TECHNICAL DOCUMENTS BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF CHAPTER 16, TITLE VIII, ARTICLE 145 § 7209.2 OF THE NEW YORK STATE EDUCATION LAW. SHEET ALTA SURVEY SHEET 1 OF 2 C-001 PROJECT NO. DGC20025



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# NOTES

Underground utilities exist on this parcel. Due to their unknown underground location they are subject to field verification. Call "UDIG NY" @ 811 at least two (2) working days prior to any digging.

Only observed utilities shown are from field evidence found and located. Also historical mapping provided by The Town of Florida and UDIG NY were available for use.

Horizontal datum is based on NAD83. The New York State Coordinate System is in Eastern Zone.

Contour interval = 1.0'.

3

# FLOOD ZONE

Said described property is located within an area having a Zone Designation X by the Secretary of Housing and Urban Development, on Flood Insurance Rate Map No. 36057C0184E & 36057C0195E, with a date of identification of January 19, 2018, for Community Number 360445, Montgomery County, State of New York, which is the current Flood Insurance Rate Map for the community in which said property is situated.



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New York State Route 55 All that piece or parcel of land situate at New York State Route 55, Town of Florida, County of Montgomery, State of New York bounded and described as follows:

Beginning at a point in the northeasterly boundary of an existing Town Road (New York State Route 5S) as shown on an appropriation for New York State Route 5S as shown on Fultonville-Amsterdam, Pt. 2, Map No. 10 A,B by New York State Department of Public Works, dated April 30, 1928 and on file in the N.Y.S. D.O.T., Region 2, Utica, N.Y., at its intersection with the remaining lands of Montgomery County Industrial Development Agency (Instrument Number 2009-00032873) on the west and the property herein described on the east, said point being S 76° 08' 25" E, 451.61 feet, from a capped iron rod found in the Southwest Corner of the lands of Douglas C. Burroughs and Joann Burroughs as Trustee of the Burroughs Family Irrevocable Trust-2009 (Instr. #2009-00035238), said point being the point of beginning, Thence the following seven courses and distances through the remaining lands of the above referenced Montgomery

County Industrial Development Agency: N 13° 47' 42" E, 625.37 feet to a point,

S 75° 58' 35" E, 63.93 feet to a point,

S 83° 02' 39" E, 51.45 feet to a point,

N 85° 08' 11" E, 158.20 feet to a point,

N 66° 13' 24" E, 56.10 feet to a point,

N 13° 35' 11" E, 131.13 feet to a point, and

N 48° 59' 49" E, 43.87 feet to a point in the line between the lands of Mark E. Quiri (Instrument Number 2005-00004478) on the northeast and the property herein described on the southwest; Thence S 52° 04' 48" E along the lands of the said Quiri 1148.81 feet to a point in the line between the lands of Bernard Mars and Kristin Mars (Liber 682 of Deeds at Page 164) on the east and the property herein described on the west; Thence S 10° 44' 04" W along the lands of the said Mars 470.00 feet to a point in the northeasterly boundary of the above referenced New York State Route 55, said point also being shown on the above referenced appropriation for New York State Route 55; Thence the following ten courses and distances along the said New York State Route 55:

N 79° 40' 25" W, 127.37 feet to a point, On a curve to the right having a radius of 1401.00 feet, an arc length of 283.45 feet, and a delta angle of 11° 35' 32" to a point,

N 68° 18' 16" W, 390.01 feet to a point, On a curve to the right having a radius of 1261.00 feet, an arc length of 101.23 feet, and a delta angle of 04° 35' 58" to a

point, N 29° 01' 18" E, 188.24 feet to a point,

N 62° 51' 00" W, 10.00 feet to a point,

S 28° 58' 05" W, 190.00 feet to a point,

On a curve to the right having a radius of 1261.00 feet, an arc length of 104.77 feet, and a delta angle of 04° 45' 37" to a point, N 78° 26' 55" W, 212.08, feet to a point, and

On a curve to the right having a radius of 5697.00 feet, an arc length of 184.31 feet, and a delta angle of 01° 51' 13" to the point of beginning, containing 21.47 acres.

All bearings are referred to Grid North of Central Meridian. Being a part of the premises conveyed to Montgomery County Industrial Development Agency by deed recorded June 11, 2009 in the Montgomery County Clerk's Office as Instrument Number 2009-00032873.

SHEET 2 OF 2

### TITLE REPORT ITEMS

Referencing Title Number NLT—32778A—MONT—22 by Stewart Title Insurance Company, Effective Date: 3/7/2022 Schedule B:

9.) Grant of Easement made by Montgomery County Industrial Development Agency to Niagara Mohawk Power Corporation dated 9/16/2010, recorded 10/13/2020 in Instrument No. 2010–3966. Does Not Affect Property

10.) Easement agreement made by Montgomery County Industrial Agency and Town of Florida dated 3/30/2010, recorded 12/29/2010 in Instrument No. 2010–40635. Does Not Affect Property

11) Grant of Easement made by Montgomery County Industrial Development Agency to Niagara Mohawk Power Corporation dated 4/4/2017, recorded 5/15/2017 in Instrument No. 2017–72960. Shown as plotted

12) Grant of Easement made by Montgomery County Industrial Development Agency to Niagara Mohawk Power Corporation dated 4/4/2017, recorded 5/15/2017 in Instrument No. 2017–72960. Does Not Affect Property

Items 1–8, and 13 are not survey matters.

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Current 2	Zonina I	Inform	ation
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Source of Information:	Town of Florida	Website	
Name of Contact: Emily	Staley		
Address: 214 Fort Hunter Road, Amsterdam, NY 12010			
Phone: 518-843-6372	Fax: N/A Email: emilystaley.tofclerk@outlook.com		
Zoning District(s): Indutrial Business Park (IBP)			
Building Setback Requirements			
	Existing	Required/Allowed	Notes
Front Setback	0'	50'	
Side Setback	0'	One: 20' Both: 50'	
Rear Setback	0'	30'	
Parking Requirements: None			
Height Restrictions: None			
Floor Space Area Restrictions: None			

# ALTA/NSPS Land Title Survey of property of MONTGOMERY COUNTY

INDUSTRIAL DEVELOPMENT AGENCY T.M. #54.-2-2.31 (part of) TOWN OF FLORIDA, COUNTY OF MONTGOMERY STATE OF NEW YORK Dated: April 25, 2022 Scale: 1" = 80' Drawn By: Katrina Talbot Survey and Map by: Susan M. Anacker, Professional Land Surveyor Susan M. Anacker, L.S. Lic # 50321 11082 Davis Road East, Deerfield, New York 13502 (315) 724-6800

22-09

**OLLAR GENER** DOLLAR GENERAL CORPORATION 100 MISSION RIDGE GOODLETTSVILLE, TN 37072 PROJECT COLD STORAGE WAREHOUSE 20XX NY HWY 5S AMSTERDAM, NEW YORK SHEET INDEX SITE PLAN REVIEW 09/01/2022 SITE PLAN REVIEW 09/01/2022 CERTIFICATION -0NS1. C UNAUTHORIZED ALTERATION OR ADDITION TO ENGINEERING TECHNICAL DOCUMENTS BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF CHAPTER 16, TITLE VIII, ARTICLE 145 § 7209.2 OF THE NEW YORK STATE EDUCATION LAW. ALTA SURVEY SHEET 2 OF 2 C-002 PROJECT NO. DGC20025



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## LEGEND

	PROPERTY LINE
¥ ¥ ¥ ¥ ¥ ¥	EXISTING WETLAND
* * * * * * *	WETLAND FILL
$\boxtimes$	REMOVE VEGETATION

## DEMOLITION NOTES

- BACKGROUND INFORMATION AND TOPOGRAPHIC SURVEY TAKEN FROM SURVEY PERFORMED BY SUSAN M. ANACKER, PREOFSSIONAL LAND SURVEYOR, PLLC ON APRIL 25, 2022. ELAN DESIGN LAB CANNOT GUARANTY THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. VERIFY ALL FIELD CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. IF ANY DISCREPANCIES OR UNKNOWN UTILITIES ARE FOUND THAT IMPACT DESIGN OR IMPAIR CONSTRUCTION, THE ENGINEER AND OWNER SHOULD BE IMMEDIATELY NOTIFIED.

- OFF-SITE AREAS DISTURBED DIRECTLY OR INDIRECTLY DUE TO CONSTRUCTION SHALL BE RETURNED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION. CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY CIVIL PENALTIES RESULTING FROM THEIR WORK UNDER
- ABATEMENT OF ANY MATERIALS DETERMINED BY THE ENVIRONMENTAL ENGINEER TO BE HAZARDOUS SHALL BE REMOVED IN ACCORDANCE

**DOLLAR GENERAL** 

DOLLAR GENERAL CORPORATION 100 MISSION RIDGE GOODLETTSVILLE, TN 37072

COLD STORAGE WAREHOUSE 20XX NY HWY 5S AMSTERDAM, NEW YORK

PROJECT

SHEET INDEX

# SITE PLAN REVIEW 09/01/2022

SITE PLAN REVIEW 09/01/2022

![](_page_193_Picture_22.jpeg)

![](_page_193_Picture_23.jpeg)

![](_page_193_Picture_24.jpeg)

![](_page_194_Figure_1.jpeg)

![](_page_195_Figure_0.jpeg)

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## SPDES AREA SUMMARY

	EXISTING	PROPOSED
IMPERVIOUS		
BUILDING	0.00 ACRES	3.92 ACRES
PAVEMENT	0.00 ACRES	8.82 ACRES
TOTAL IMPV	0.00 ACRES	12.24 ACRES
STORMWATER AREA	0.00 ACRES	0.95 ACRES
WETLANDS	0.49 ACRES	0.70 ACRES
PERVIOUS	21.72 ACRES	9.48 ACRES
TOTAL	21.72 ACRES	21.72 ACRES

IEGEND

966.35' BW

LEGEND	
1086	MINOR PROPOSED CONTOUR
	MAJOR PROPOSED CONTOUR
<u> </u>	MINOR EXISTING CONTOUR
<u> </u>	MAJOR EXISTING CONTOUR
<<	STORM SEWER
W	DOMESTIC WATERMAIN
——— F ———	FIRE MAIN
	NATURAL GAS
СОММ	TELECOM/DATA
UE	UNDERGROUND ELECTRIC
966.3' ± MATCH	MATCH EXISTING
966.35' HP	HIGH POINT
966.35' LP	LOW POINT
966.35' TC	TOP OF CURB
966.35' TW	TOP OF WALL

BOTTOM OF WALL

5

NOTES

- 1. CONTRACTOR SHALL UTILIZE THE DIGITAL FILE SUPPLIED BY THE ENGINEER FOR LAYOUT.
- 2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ASSESSING THE STABILITY OF AND EXECUTING PROJECT EXCAVATIONS USING SAFE METHODS. CONTRACTOR IS ALSO RESPONSIBLE FOR NAMING THE "COMPETENT INDIVIDUALS" AS PER SUBPART P OF CFR 1926.6 (FEDERAL REGISTER - OSHA)
- 3. THE TOP OF ALL EXCAVATIONS LEFT OPEN OVERNIGHT SHALL BE MARKED WITH ORANGE SAFETY FENCE.
- 4. CONTRACTOR, SUB-CONTRACTORS, SUPERVISORY PERSONNEL AND OPERATORS MUST ALL READ, UNDERSTAND AND FOLLOW THE TEXT OF THE EROSION AND SEDIMENT CONTROL PLAN, SHEET 0C2.20. THERE IS CRITICAL INFORMATION ON THAT PLAN THAT EFFECTS GRADING CONSTRUCTION.
- 5. SUFFICIENT HIGH QUALITY TOPSOIL SHALL BE PRESERVED TO INSTALL 12 INCHES OVER ALL GREENSPACES OF THE SITE..
- 6. CONSTRUCTION LIMITS: THE CONSTRUCTION LIMITS ARE TO BE ESTABLISHED WITH A PERIMETER SILT FENCE AS SHOWN.
- 7. INGRESS AND EGRESS TO THE SITE SHALL AT ALL TIMES BE LIMITED TO THE CONSTRUCTION ENTRANCE FROM NY STATE ROAD 5S
- 8. NO GRADING SHALL OCCUR WITHIN WETLAND. CONTRACTOR SHALL STAKE AND PROTECT LIMITS PRIOR TO ANY EARTH MOVING.

**DOLLAR GENERAL** 

DOLLAR GENERAL CORPORATION 100 MISSION RIDGE GOODLETTSVILLE, TN 37072

COLD STORAGE WAREHOUSE 20XX NY HWY 5S AMSTERDAM, NEW YORK

PROJECT

SHEET INDEX

# SITE PLAN REVIEW 09/01/2022

I S S U E D A T E
SITE PLAN REVIEW 09/01/2022

![](_page_195_Picture_22.jpeg)

![](_page_195_Picture_24.jpeg)

![](_page_196_Figure_0.jpeg)

![](_page_196_Picture_10.jpeg)

![](_page_197_Figure_1.jpeg)

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## UTILITY NOTES

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- VERIFY ALL CONNECTIONS TO EXISTING UTILITY SERVICES PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN LOCATED UTILITIES AND THE EXISTING CONDITIONS PLAN SHOULD BE NOTED AND FORWARDED TO THE ENGINEER.
- 2. ALL CONNECTIONS TO PUBLIC UTILITIES TO BE IN ACCORDANCE WITH THE CITY OF AMSTERDAM DESIGN STANDARDS.

- 10. PROVIDE ADDITIONAL BENDS WITH THRUST RESTRAINT AND OTHER APPURTENANCES TO ENSURE PROPER INSTALLATION OF WATER MAIN AND SERVICES.
- 11. PROVIDE MECHANICAL THRUST RESTRAINT OR THRUST BLOCKS AT ALL WATER AND FIRE LINE BENDS, TEES, HYDRANTS, ETC.

![](_page_197_Figure_24.jpeg)

	STORM SEWER
>	SANITARY SEWER
W	DOMESTIC WATERMAIN
———— F ————	FIRE MAIN
G	NATURAL GAS
——— СОММ ————	TELECOM/DATA
UE	UNDERGROUND ELECTRI
	RIGHT OF WAY
	CATCH BASIN MANHOLE (
$\bigcirc$	STORM MANHOLE (STMH)
	FLARED END SECTION (FI
$\bigcirc$	SANITARY MANHOLE (SSN
W	FIRE HYDRANT
$\otimes$	GAS OR WATER VALVE

**DOLLAR GENERAL** 

DOLLAR GENERAL CORPORATION 100 MISSION RIDGE GOODLETTSVILLE, TN 37072

(CBMH)

COLD STORAGE WAREHOUSE 20XX NY HWY 5S AMSTERDAM, NEW YORK

PROJECT

SHEET INDEX

# SITE PLAN REVIEW 09/01/2022

SITE PLAN REVIEW 09/01/2022

![](_page_197_Picture_35.jpeg)

![](_page_197_Figure_36.jpeg)

SCALE IN FEET

![](_page_198_Figure_0.jpeg)

Know what's below.

Call before you dig

**DOLLAR GENERAL** 

DOLLAR GENERAL CORPORATION 100 MISSION RIDGE GOODLETTSVILLE, TN 37072

COLD STORAGE WAREHOUSE 20XX NY HWY 5S AMSTERDAM, NEW YORK

PROJECT

SHEET INDEX

# SITE PLAN REVIEW 09/01/2022

SITE PLAN REVIEW 09/01/2022

310 S 4TH AVENUE, SUITE 1006 MINNEAPOLIS, MN 55415 p 612.260.7980 | f 612.260.7990 | www.elanlab.com CERTIFICATION -ONS' C POFESSIONAL UNAUTHORIZED ALTERATION OR ADDITION TO ENGINEERING TECHNICAL DOCUMENTS BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF CHAPTER 16, TITLE VIII, ARTICLE 145 § 7209.2 OF THE NEW YORK STATE EDUCATION LAW. SHEET

![](_page_198_Picture_10.jpeg)

PROJECT NO. DGC20025

OVERALL LANDSCAPE PLAN

![](_page_198_Picture_12.jpeg)

![](_page_198_Picture_22.jpeg)