CHRISTOPHER S. ANDRZEJEWSKI, P.E.

S6887 Taylor Road • Hamburg, New York 14075 • (716) 628-6120

Milex.chris@gmail.com

May 22, 2022

Town of West Seneca
Attention: Jeffrey Schieber – Code Enforcement Officer
1250 Union Road
West Seneca, New York 14224

RE: Beauty Salon and parking area
1420 Union Road, West Seneca, NY 14224
Parking Lot Expansion

Dear Mr. Schieber,

Attached you shall find the Site Plan Review Approval form, Letter of Intent and review fee check in the amount of $600 for the subject matter project (See Attachment A). We also include three copies of the Engineers Report which includes the NYSDOT Perm 33 Application and Highway Safety Detail for stormwater connection and driveway widening in the NYSDOT ROW found in Attachment B. Twenty copies of the site plans and SEQR Short Environmental Assessment Forms are also being provide under this cover as Attachment C for distribution.

Should you need additional information or have questions on this submittal, please do not hesitate to contact us. We wish to be on the next Planning Board agenda possible.

Sincerely,

Christopher S. Andrzejewski, P.E.

cc w/o attachments: Michelle and Martino Monaco – Owner
Frank Wailand – F.J. Wailand and Associates

Attachment A

May 17, 2022

Town of West Seneca
Attention: Jeffrey Schieber – Code Enforcement Officer
1250 Union Road
West Seneca, New York 14224

RE: LETTER of INTENT
Beauty Salon and parking area
1420 Union Road
West Seneca, New York 14224

Dear Mr. Schieber,

We respectfully submit this Letter of Intent to make you aware of our request to seek site plan approval for the above referenced property renovation and expansion of an existing structure into a beauty salon and required parking. The parking expansion area has caused us to provide stormwater calculations in order to request a connection the NYS Department of Transportation stormwater system along Union Road.

If you should have any questions in regards to this submittal, please feel free to contact my Civil Engineer at (716) 628-6120 or via email at Milex.chris@gmail.com

Please also let us know when we will be on the agenda with the Planning Board for this Project.

Sincerely,

Michelle M Monaco

Michelle and Martino Monaco
Owners

cc: Frank Wailand – Project Manager

TOWN OF WEST SENECA

APPLICATION FOR SITE PLAN REVIEW APPROVAL

TO BE COMPLETED BY APPLICANT

DATE **May 10, 2022** FILE#_____

PROJECT NAME **1420 Union Road - Beauty Salon**

PROJECT LOCATION **1420 Union Road, West Seneca**

APPLICANT **Michelle and Martino Monaco**

2855 Clinton Street Inc.

PH/FAX'(716) 827-3003

ADDRESS **1420 Union Road, West Seneca 14224**

PROPERTY OWNER_____--"PH/FAX _____

ADDRESS _____

ENGINEER/ ARCHITECT **Milex Engineering** PH/FAX (716)628-6120

SBL**# 134.67-5-5.1**

PROJECT DESCRIPTION (Include all uses and any required construction)

Renovation of a multi- family residence into a beauty salon and additional parking area

SIZE OF LOT (acres) **0.48** ACREAGE TO BE REZONED NA

ADJACENT ROAD NAMES AND AMOUNT OF FRONTAGE ON EACH

Graymont Street (90 feet frontage)

EXISTING ZONING **C-1 commercial** **PROPOSED ZONING C-1 commercial**

EXISTING USE(S) ON PROPERTY **Multi family**

PROPOSED USE(S) ON PROPERTY **Commercial**

EXISTING USE(S) AND ZONING ON ALL PROPERTY WITHIN 500 FEET

Both commercial and residential

PUBLIC SEWER ✓ YES NO PUBLICWATER ✓ YES NO

VARIANCES AND OTHER APPROVALS OR PERMITS REQUIRED

NYSDOT Perm 33

APPLICATIONS WILL NOT BE ACCEPTED WITHOUT COMPLETION OF ALL REQUIREMENTS LISTED HEREIN

TO BE COMPLETED BY THE TOWN OF WEST SENECA

DATE RECEIVED _____ BY _____

PLANNING BOARD MEETING DATE _____

TOWN BOARD MEETING DATE _____

TOWN BOARD RESOLUTION DATE _____

NON - REFUNDABLE FILING FEE (Payable to the Town Clerk): $

Attachment B

ENGINEERING REPORT

BEAUTY SALON PARKING AREA EXPANSION
1420 UNION ROAD
WEST SENECA, NEW YORK 14224

PREPARED FOR:

2855 CLINTON STREET INC.

MICHELLE & MARTINO MONACO

1420 UNION ROAD

WEST SENECA, NEW YORK 14224

PREPARED BY:

CHRISTOPHER S. ANDRZEJEWSKI, P.E.

MAY 2022

ENGINEERING REPORT

BEAUTY SALON PARKING AREA EXPANSION
1420 UNION ROAD
WEST SENECA, NEW YORK 14224

TABLE OF CONTENTS

I INTRODUCTION

This Engineering Report describes the civil design, specifically the stormwater management calculations required for the proposed expansion of the eXisting parking lot area. The project will consist of renovations to the existing residential structure and expansion of the existing parking area, creating a total of 10 parking spaces, which will include a handicapped accessible access area. The increase in parking area (impervious area) is needed to accommodate client parking.

The intent of this report is to convey sufficient information to the Town of West Seneca Planning Board to gain approval to move forward with site development. The site property is owned by 2855 Clinton St Inc.

The SBL number on record is 134.67-5-5.1 which is a 0.48 acre parcel located on the western side of Union Road, approximately 260 feet south from the intersection of Union Road and Center Road in West Seneca, New York. The project will develop approximately 0.21 acres of the total site area, with development constrained to roughly half of the property. The eastern portion of the site (fronting Union Road) will be developed while the western portion of the site will remain as green space.

Site History

The site has historically been operated as a multi residential property, containing a single two story building, concrete single lane driveway, and green space. Currently the site operates as a two family residential property.

II REGULATORY

As part of the site planning process and the state environmental quality review act (SEQRA) a short environmental assessment form (EAF) was requested and completed to assess impacts on the local environs. Attachment A contains the completed EAF form also submitted under separate cover to the Town Planning Board.

As part of a coordinated review under the SEQRA, the following regulatory agencies/authorities have been contacted or will be applied to throughout the course of this Project:

- Town of West Seneca Planning Board
- NYSDOT Perm 33 Highway Work Permit

III SANITARY SEWER

Sanitary Sewer System

An existing sanitary sewer line currently services the structure to be renovated. There will be no changes to the existing sanitary service as it contains adequate capacity for the site.

IV POTABLE AND WATER SUPPLY AND DEMAND

There will be no modifications or additional need for water as part of this project therefore the existing water service will not be altered during this project.

V STORMWATER COLLECTION AND MANAGEMENT SYSTEM

The existing site and associated parking areas currently have no stormwater collection or management system. Stormwater runoff currently sheet flows to the periphery of the site where it is received by roadside collection systems and transported away from the site.

The proposed stormwater system will collect runoff from the impervious parking lot area and direct it toward two new catch basins, located within the proposed parking area. Stormwater will then be managed in a subsurface stormwater detention system for water quantity.

The subsurface detention system will retain runoff from the site and discharge into the existing stormwater conveyance system, located along the western portion of the site and Union Road.

A subsurface detention system was chosen to manage the stormwater quantity volumes due to the site's topography and lack of open green space for a traditional stormwater management system. The proposed system was designed to limit the post construction stormwater runoff to below the existing runoff volumes, as shown in the table below.

While water quality treatment of stormwater is not required for this project, this form of stormwater management is considered to be "green infrastructure" due to potential infiltration means. It is anticipated that much of the stormwater runoff within the subsurface system will infiltrate into the pipe bedding stone and adjacent soils while being retained, resulting in a natural form of treatment and further reduction of discharge from the site.

Stormwater Management

Hydraulic calculations have been completed for the design of the stormwater management system using Hydrocad v 9.10, 2010. A subsurface stormwater system utilizing a SC-310 Stormtech Chamber system by ADS has been chosen to manage the stormwater quantity generated from the site. The designed subsurface stormwater management system will successfully reduce the post construction 25 year storm event discharge rate (0.56 cfs) to below pre-construction discharge rates (0.41 cfs) for the 10 year storm event.

Complete stormwater design and erosion and sedimentation control details are shown on the Civil Site Plans for the **1420 Union Road Beauty Salon Parking Area Expansion May 2022.** The hydraulic stormwater calculations can be found in Attachment B - Hydraulic Stormwater Calculations. The summary table of those calculations is shown below.

Stormwater Runoff Volumes Pre and Post Construction

Modeled Storm Event	Off Site Discharge Rate (cfs)*
Pre-developed 10-year Storm	0.56
Post-developed 25-year Storm	**0.41**

*cfs – cubic feet per second

The stormwater design provides appropriate stormwater detention that will limit or reduce the site runoff prior it being discharged to the NYSDOT catch basin in the front of the Property. The connection to the NYSDOT catch basin and stormwater system and widening of the driveway entrance will require a NYSDOT Perm 33 and is located in Attachment C. This catch basin is connected laterally to the main collector line on the east side of Union Road. The total volume of storage area provided is 918.8 cubic feet (cf).

A Stormwater Pollution Prevention Plan (SWPPP) was not required as part of this project, however, standard practice erosion and sediment controls and contractor oversite will be implemented within the project plan. These controls will adequately control and manage site conditions and prevent the off-site migration of sediments from the site.

Attachment A

SEQR Documentation

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

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

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

Part 1 – Project and Sponsor Information

Name of Action or Project:
1420 Union Road Beauty Salon and parking area expansion

Project Location (describe, and attach a location map):
1420 Union Road, West Seneca, New York 14224

Brief Description of Proposed Action:
The project will consist of the removal of an existing structure and convert an existing residential structure into a beauty salon and associated parking area at 1420 Union Road, in the Town of West Seneca.

Name of Applicant or Sponsor:	Telephone: (716) 827-3003
2855 Clinton Street Inc. Michelle & Martino Monaco	E-Mail: martymonaco@shellfab.com

Address:
1420 Union Road

City/PO:	State:	Zip Code:
West Seneca	New York	14224

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

3. a. Total acreage of the site of the proposed action? 0.48 acres
   b. Total acreage to be physically disturbed? .12 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0.48 acres

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Wetland ☐ Urban ☑ Suburban

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

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

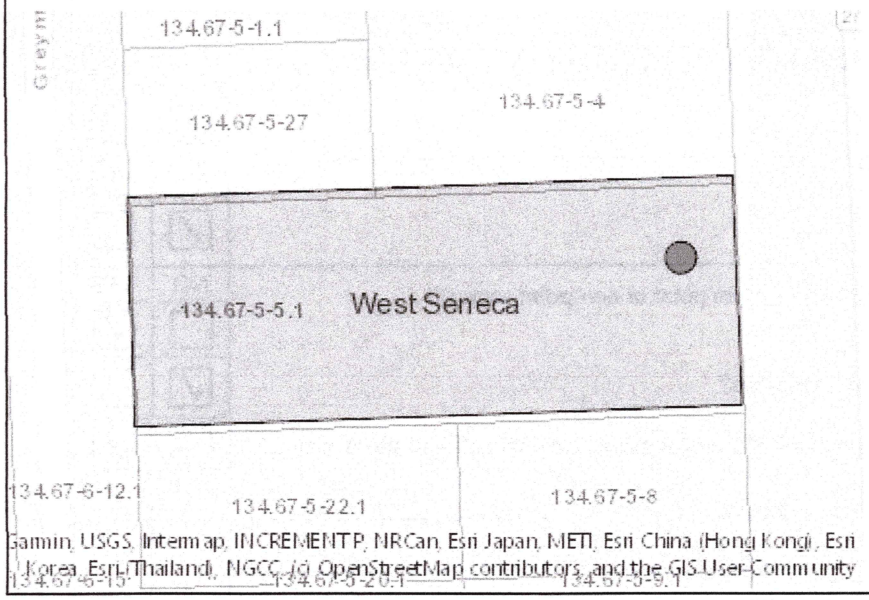
Applicant/sponsor/name: Michelle M. Monaco Date: 5-18-22

Signature: Michelle M Monaco Title: Owner

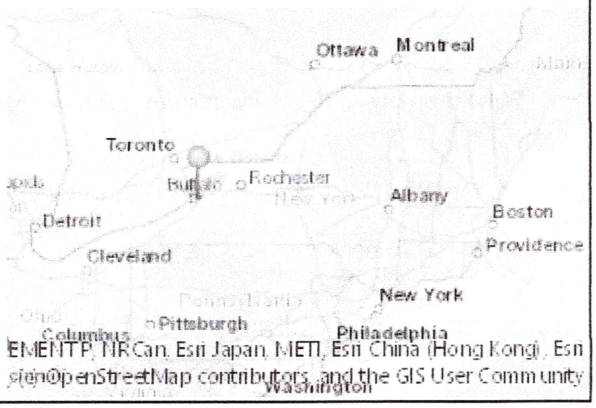
PRINT FORM

EAF Mapper Summary Report

Tuesday, April 12, 2022 7:56 PM



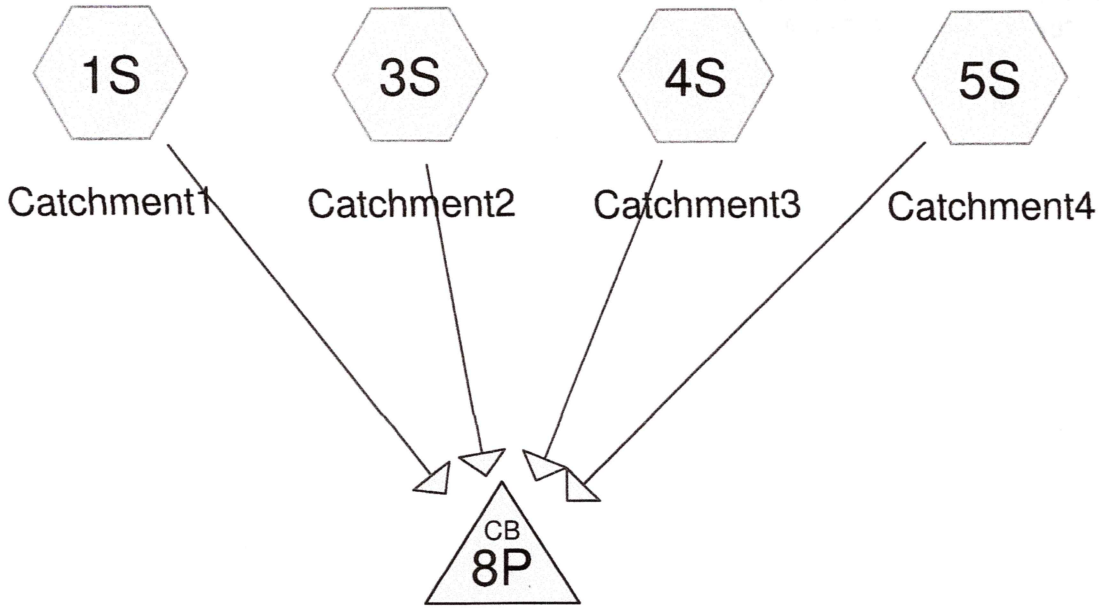
Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the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



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

Attachment B

Hydraulic Stormwater Calculations



DOT CatchBasin

Subcat Reach Pond Link

Drainage Diagram for 10YearPre
Prepared by Milex Engineering, Printed 5/5/2022

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.118	84	50-75% Grass cover, Fair, HSG D (5S)
0.044	98	Paved parking, HSG D (4S)
0.027	98	Roofs, HSG C (1S)
0.018	98	Roofs, HSG D (3S)
0.207		**TOTAL AREA**

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Catchment1 Runoff Area=1,162 sf 100.00% Impervious Runoff Depth>2.93"
Flow Length=88' Slope=0.0200 '/' Tc=1.3 min CN=98 Runoff=0.14 cfs 0.007 af

Subcatchment 3S: Catchment2 Runoff Area=779 sf 100.00% Impervious Runoff Depth>2.93"
Flow Length=90' Slope=0.0200 '/' Tc=1.3 min CN=98 Runoff=0.09 cfs 0.004 af

Subcatchment 4S: Catchment3 Runoff Area=1,927 sf 100.00% Impervious Runoff Depth>2.93"
Flow Length=100' Slope=0.0200 '/' Tc=1.5 min CN=98 Runoff=0.23 cfs 0.011 af

Subcatchment 5S: Catchment4 Runoff Area=5,160 sf 0.00% Impervious Runoff Depth>1.70"
Flow Length=100' Slope=0.0200 '/' Tc=17.2 min CN=84 Runoff=0.26 cfs 0.017 af

Pond 8P: DOT CatchBasin Peak Elev=640.41' Inflow=0.58 cfs 0.038 af
12.0" Round Culvert n=0.011 L=60.0' S=0.0250 '/' Outflow=0.58 cfs 0.038 af

Total Runoff Area = 0.207 ac Runoff Volume = 0.038 af Average Runoff Depth = 2.23"
57.16% Pervious = 0.118 ac 42.84% Impervious = 0.089 ac

Summary for Subcatchment 1S: Catchment1

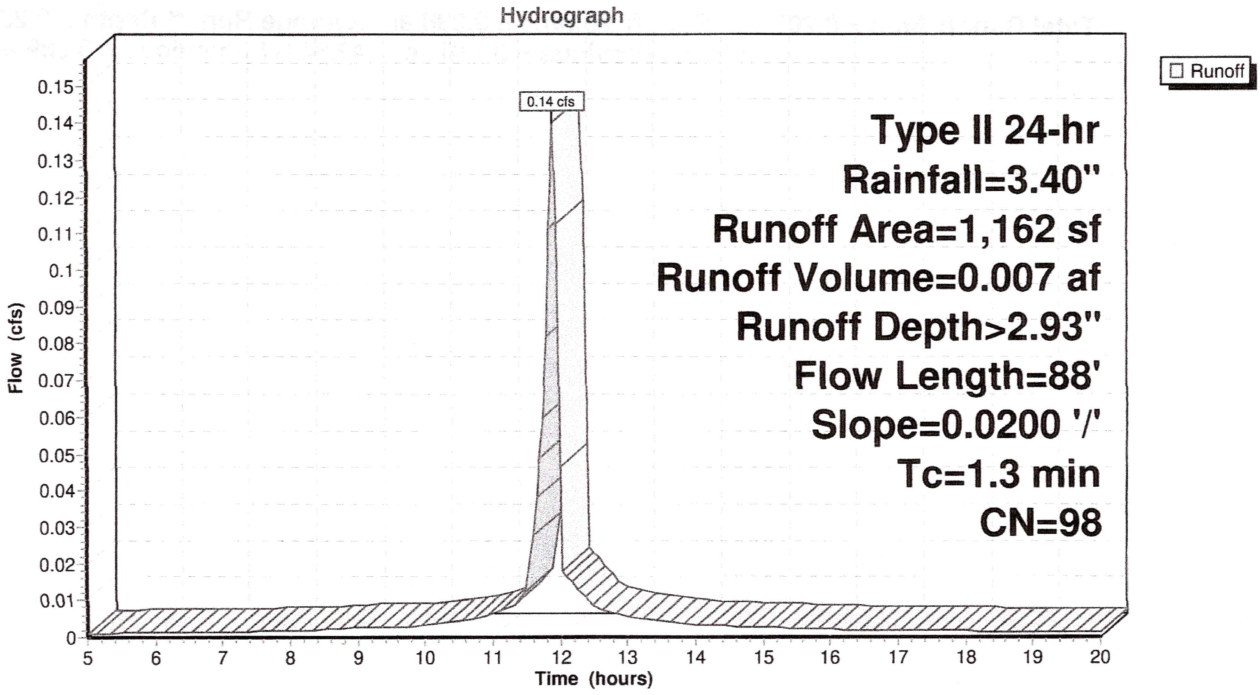
Runoff = 0.14 cfs @ 11.90 hrs, Volume= 0.007 af, Depth> 2.93"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr Rainfall=3.40"

Area (sf)	CN	Description
1,162	98	Roofs, HSG C
1,162		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	88	0.0200	1.11		**Sheet Flow, Roof** Smooth surfaces n= 0.011 P2= 2.20"

Subcatchment 1S: Catchment1



Summary for Subcatchment 3S: Catchment2

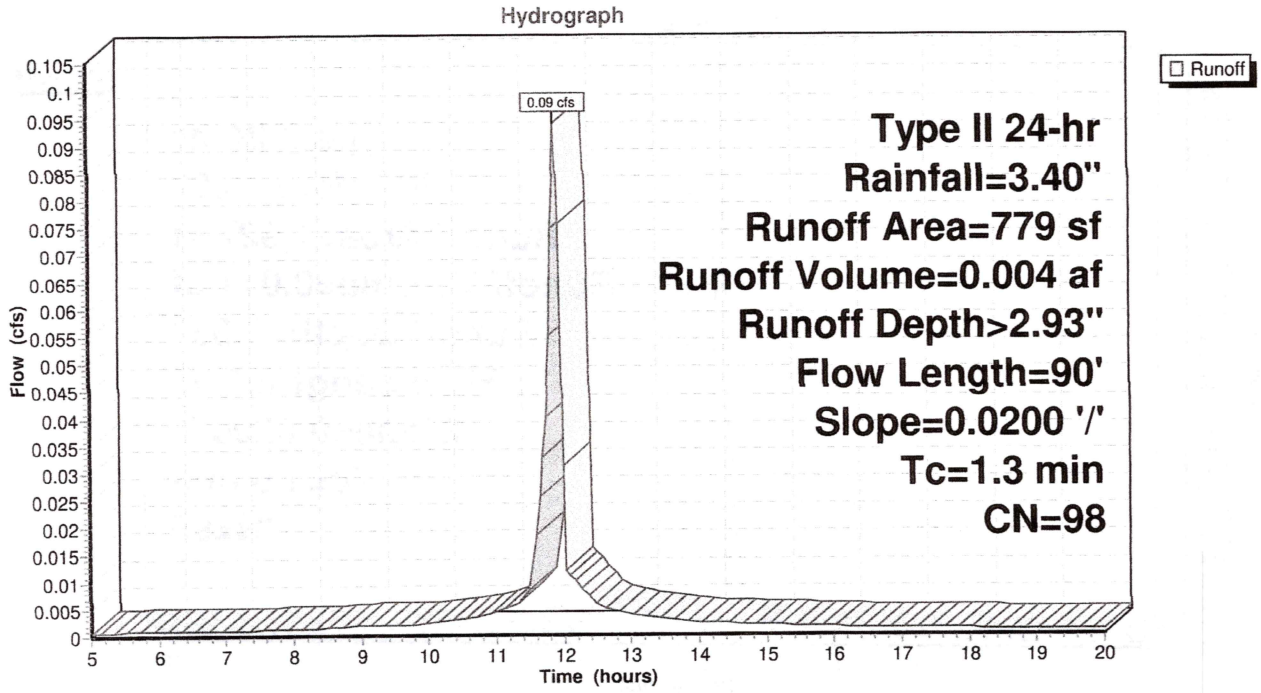
Runoff = 0.09 cfs @ 11.90 hrs, Volume= 0.004 af, Depth> 2.93"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr Rainfall=3.40"

Area (sf)	CN	Description
779	98	Roofs, HSG D
779		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	90	0.0200	1.12		**Sheet Flow, Roof** Smooth surfaces n= 0.011 P2= 2.20"

Subcatchment 3S: Catchment2



Summary for Subcatchment 4S: Catchment3

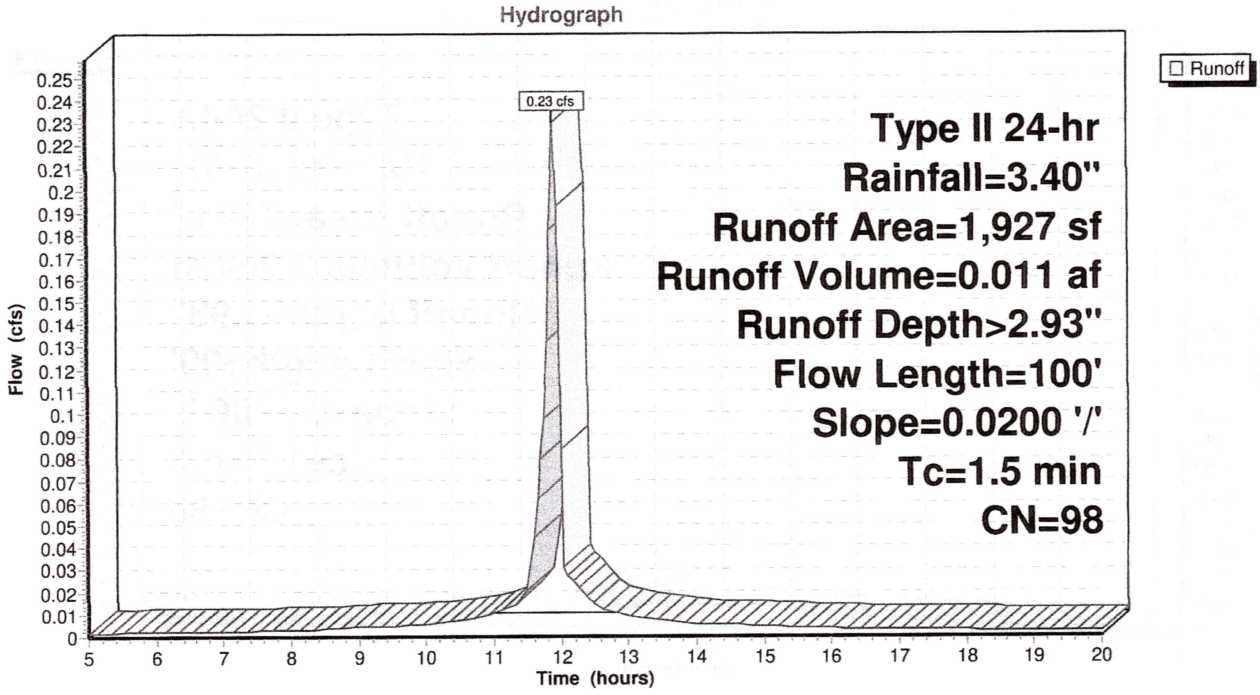
Runoff = 0.23 cfs @ 11.90 hrs, Volume= 0.011 af, Depth> 2.93"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr Rainfall=3.40"

Area (sf)	CN	Description
1,927	98	Paved parking, HSG D
1,927		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0200	1.14		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 2.20"

Subcatchment 4S: Catchment3



Summary for Subcatchment 5S: Catchment4

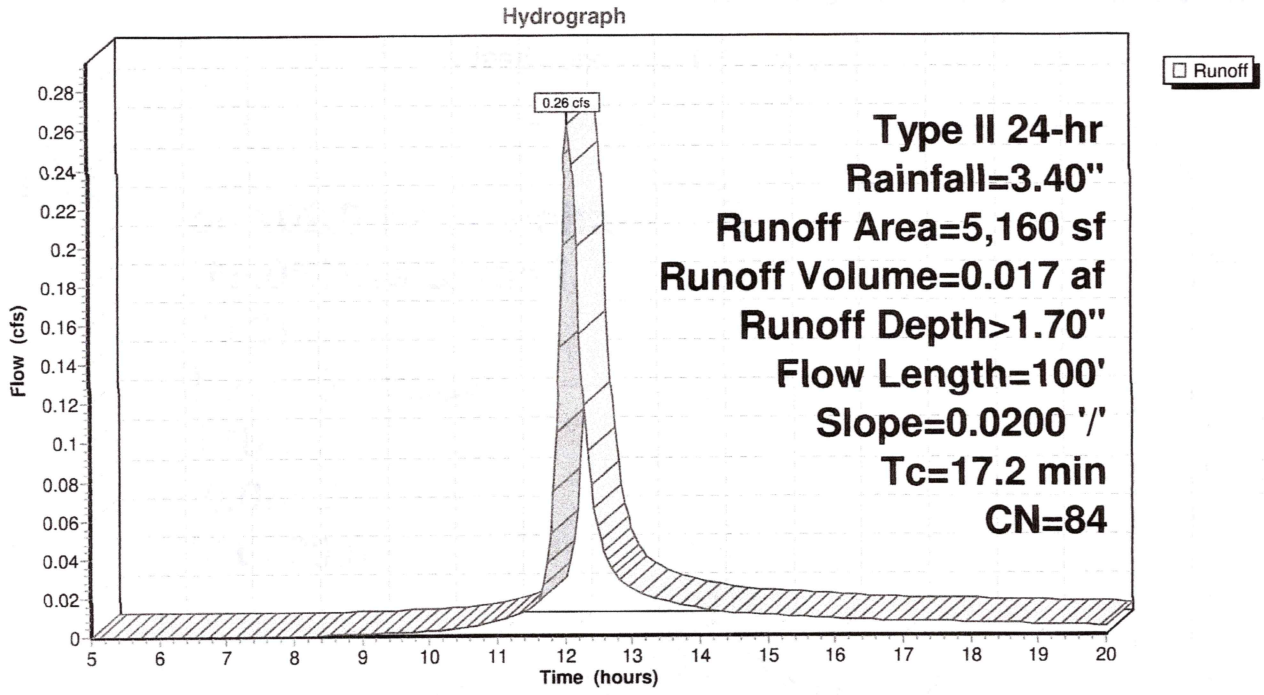
Runoff = 0.26 cfs @ 12.10 hrs, Volume= 0.017 af, Depth> 1.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr Rainfall=3.40"

Area (sf)	CN	Description
5,160	84	50-75% Grass cover, Fair, HSG D
5,160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	100	0.0200	0.10		**Sheet Flow, Grass** Grass: Dense n= 0.240 P2= 2.20"

Subcatchment 5S: Catchment4



Summary for Pond 8P: DOT CatchBasin

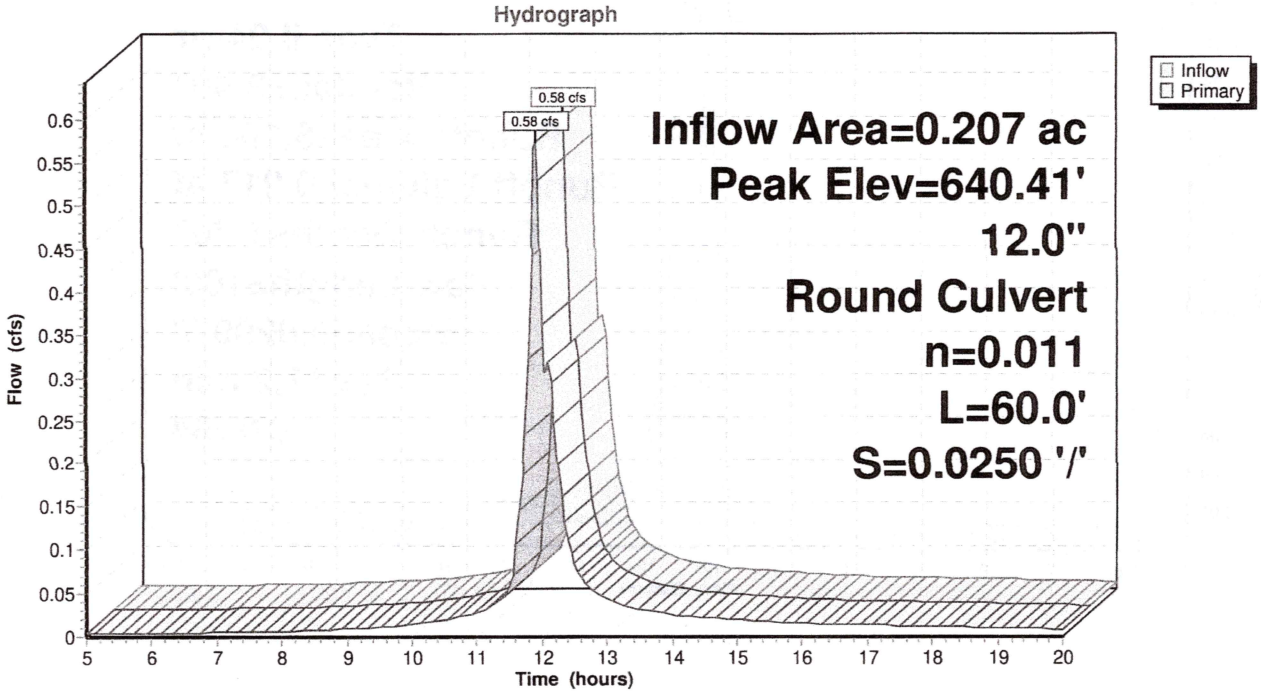
Inflow Area = 0.207 ac, 42.84% Impervious, Inflow Depth > 2.23"
Inflow = 0.58 cfs @ 11.91 hrs, Volume= 0.038 af
Outflow = 0.58 cfs @ 11.91 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
Primary = 0.58 cfs @ 11.91 hrs, Volume= 0.038 af

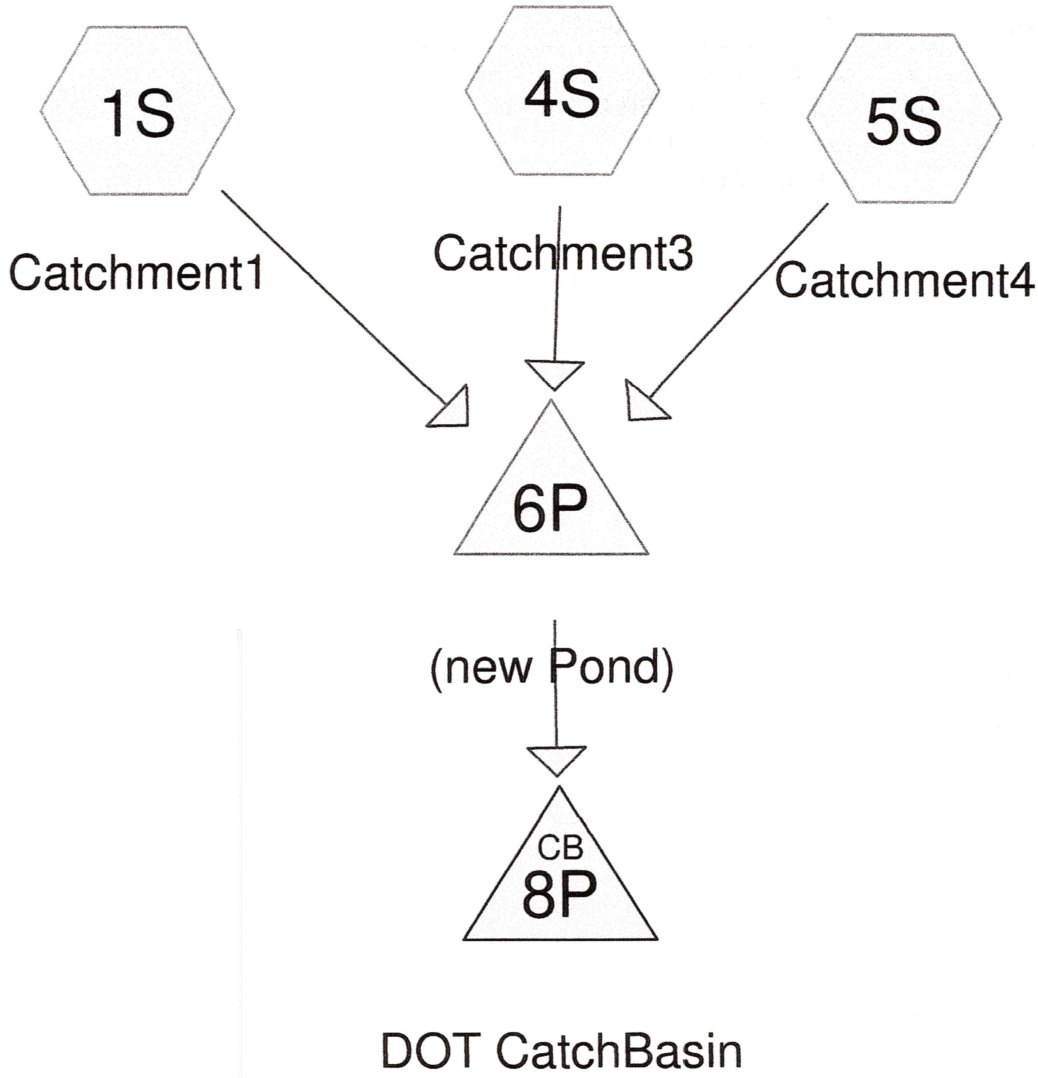
Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 640.41' @ 11.91 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	640.00'	**12.0" Round Culvert** L= 60.0' Box, 0° wingwalls, square crown edge, Ke= 0.700 Inlet / Outlet Invert= 640.00' / 638.50' S= 0.0250 '/' Cc= 0.900 n= 0.011 PVC, smooth interior

Primary OutFlow Max=0.56 cfs @ 11.91 hrs HW=640.40' (Free Discharge)
1=Culvert (Inlet Controls 0.56 cfs @ 1.90 fps)

Pond 8P: DOT CatchBasin





DOT CatchBasin

Subcat Reach Pond Link

Drainage Diagram for 25YearPost
Prepared by Milex Engineering, Printed 5/5/2022
HydroCAD® 9.10 s/n 02181 © 2010 HydroCAD Software Solutions LLC

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.079	84	50-75% Grass cover, Fair, HSG D (5S)
0.101	98	Paved parking, HSG D (4S)
0.027	98	Roofs, HSG C (1S)
0.208		**TOTAL AREA**

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Catchment1 Runoff Area=1,176 sf 100.00% Impervious Runoff Depth>3.60"
Flow Length=88' Slope=0.0200 '/' Tc=1.3 min CN=98 Runoff=0.17 cfs 0.008 af

Subcatchment 4S: Catchment3 Runoff Area=4,403 sf 100.00% Impervious Runoff Depth>3.60"
Flow Length=100' Slope=0.0200 '/' Tc=1.5 min CN=98 Runoff=0.65 cfs 0.030 af

Subcatchment 5S: Catchment4 Runoff Area=3,463 sf 0.00% Impervious Runoff Depth>2.32"
Flow Length=100' Slope=0.0200 '/' Tc=17.2 min CN=84 Runoff=0.24 cfs 0.015 af

Pond 6P: (new Pond) Peak Elev=640.35' Storage=0.021 af Inflow=0.92 cfs 0.054 af
Discarded=0.02 cfs 0.022 af Primary=0.44 cfs 0.013 af Outflow=0.46 cfs 0.035 af

Pond 8P: DOT CatchBasin Peak Elev=640.35' Inflow=0.44 cfs 0.013 af
12.0" Round Culvert n=0.011 L=60.0' S=0.0250 '/' Outflow=0.44 cfs 0.013 af

Total Runoff Area = 0.208 ac Runoff Volume = 0.054 af Average Runoff Depth = 3.11"
38.30% Pervious = 0.079 ac 61.70% Impervious = 0.128 ac

Summary for Subcatchment 1S: Catchment1

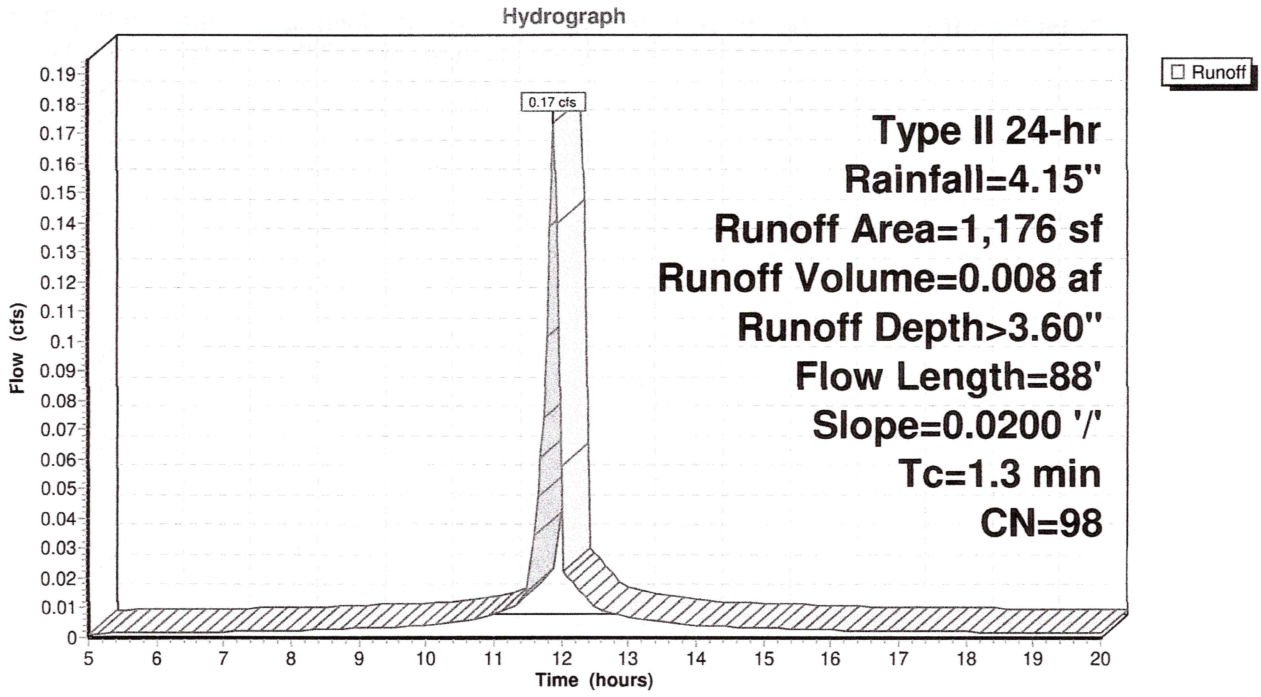
Runoff = 0.17 cfs @ 11.90 hrs, Volume= 0.008 af, Depth> 3.60"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr Rainfall=4.15"

Area (sf)	CN	Description
1,176	98	Roofs, HSG C
1,176		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	88	0.0200	1.11		**Sheet Flow, Roof** Smooth surfaces n= 0.011 P2= 2.20"

Subcatchment 1S: Catchment1



Summary for Subcatchment 4S: Catchment3

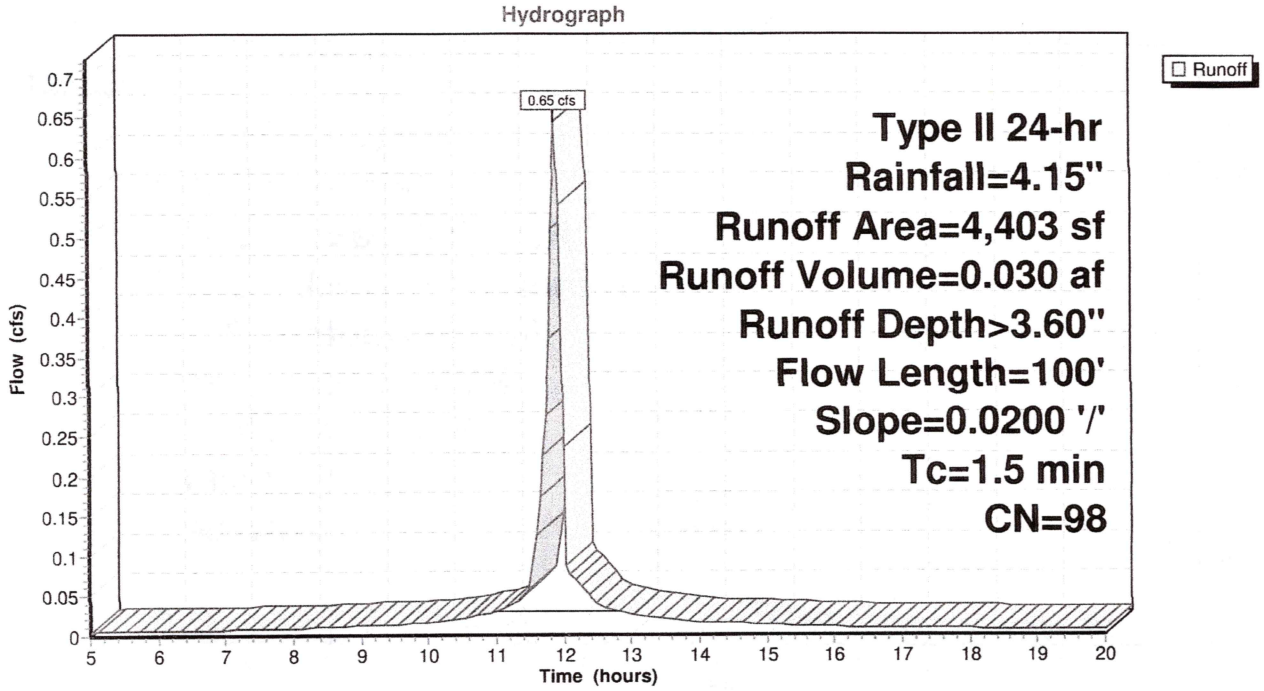
Runoff = 0.65 cfs @ 11.90 hrs, Volume= 0.030 af, Depth> 3.60"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr Rainfall=4.15"

Area (sf)	CN	Description
4,403	98	Paved parking, HSG D
4,403		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0200	1.14		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 2.20"

Subcatchment 4S: Catchment3



Summary for Subcatchment 5S: Catchment4

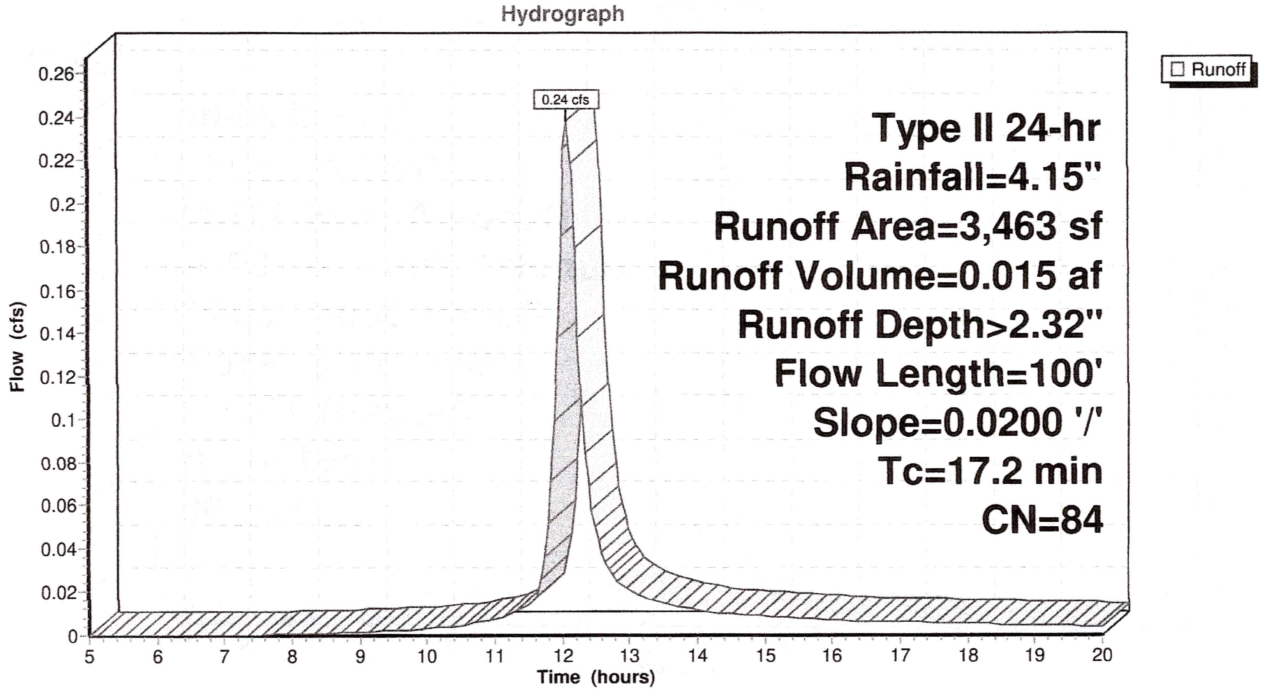
Runoff = 0.24 cfs @ 12.09 hrs, Volume= 0.015 af, Depth> 2.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr Rainfall=4.15"

Area (sf)	CN	Description
3,463	84	50-75% Grass cover, Fair, HSG D
3,463		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	100	0.0200	0.10		**Sheet Flow, Grass** Grass: Dense n= 0.240 P2= 2.20"

Subcatchment 5S: Catchment4



Summary for Pond 6P: (new Pond)

Inflow Area = 0.208 ac, 61.70% Impervious, Inflow Depth > 3.11"
Inflow = 0.92 cfs @ 11.91 hrs, Volume= 0.054 af
Outflow = 0.46 cfs @ 12.04 hrs, Volume= 0.035 af, Atten= 50%, Lag= 7.9 min
Discarded = 0.02 cfs @ 12.05 hrs, Volume= 0.022 af
Primary = 0.44 cfs @ 12.04 hrs, Volume= 0.013 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 640.35' @ 12.05 hrs Surf.Area= 0.023 ac Storage= 0.021 af

Plug-Flow detention time= 127.2 min calculated for 0.035 af (66% of inflow)
Center-of-Mass det. time= 55.5 min (799.6 - 744.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	637.00'	0.014 af	**8.17'W x 73.20'L x 2.33'H Field A Z=1.0** 0.043 af Overall - 0.007 af Embedded = 0.036 af x 40.0% Voids
#2A	637.50'	0.007 af	**StormTech SC-310** x 20 Inside #1 Effective Size= 28.9"W x 16.0"H => 2.07 sf x 7.12'L = 14.7 cf Overall Size= 34.0"W x 16.0"H x 7.56'L with 0.44' Overlap
		0.021 af	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	640.00'	**12.0" Round Culvert** L= 20.0' Box, 0° wingwalls, square crown edge, Ke= 0.700 Inlet / Outlet Invert= 638.00' / 640.00' S= -0.1000 '/' Cc= 0.900 n= 0.011 PVC, smooth interior
#2	Discarded	637.00'	**1.000 in/hr Exfiltration over Surface area** Conductivity to Groundwater Elevation = 0.00'

Discarded OutFlow Max=0.02 cfs @ 12.05 hrs HW=640.35' (Free Discharge)
↑—**2=Exfiltration** (Controls 0.02 cfs)

Primary OutFlow Max=0.41 cfs @ 12.04 hrs HW=640.34' (Free Discharge)
↑—**1=Culvert** (Inlet Controls 0.41 cfs @ 1.75 fps)

Pond 6P: (new Pond) - Chamber Wizard Field A

Chamber Model = StormTech SC-310
Effective Size= 28.9"W x 16.0"H => 2.07 sf x 7.12'L = 14.7 cf
Overall Size= 34.0"W x 16.0"H x 7.56'L with 0.44' Overlap

34.0" Wide + 6.0" Spacing = 40.0" C-C

10 Chambers/Row x 7.12' Long = 71.20' + 12.0" End Stone x 2 = 73.20' Base Length
2 Rows x 34.0" Wide + 6.0" Spacing x 1 + 12.0" Side Stone x 2 = 8.17' Base Width
6.0" Base + 16.0" Chamber Height + 6.0" Cover = 2.33' Field Height

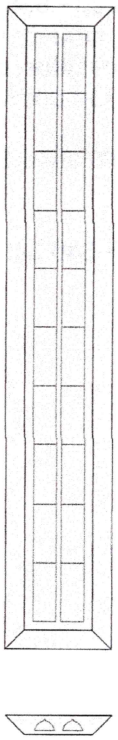
1.0 '/' Side-Z x Height = 28.0" Flare/Side
Base Length + Flare x 2 = 77.87' Top Length
Base Width + Flare x 2 = 12.83' Top Length

20 Chambers x 14.7 cf = 294.8 cf Chamber Storage

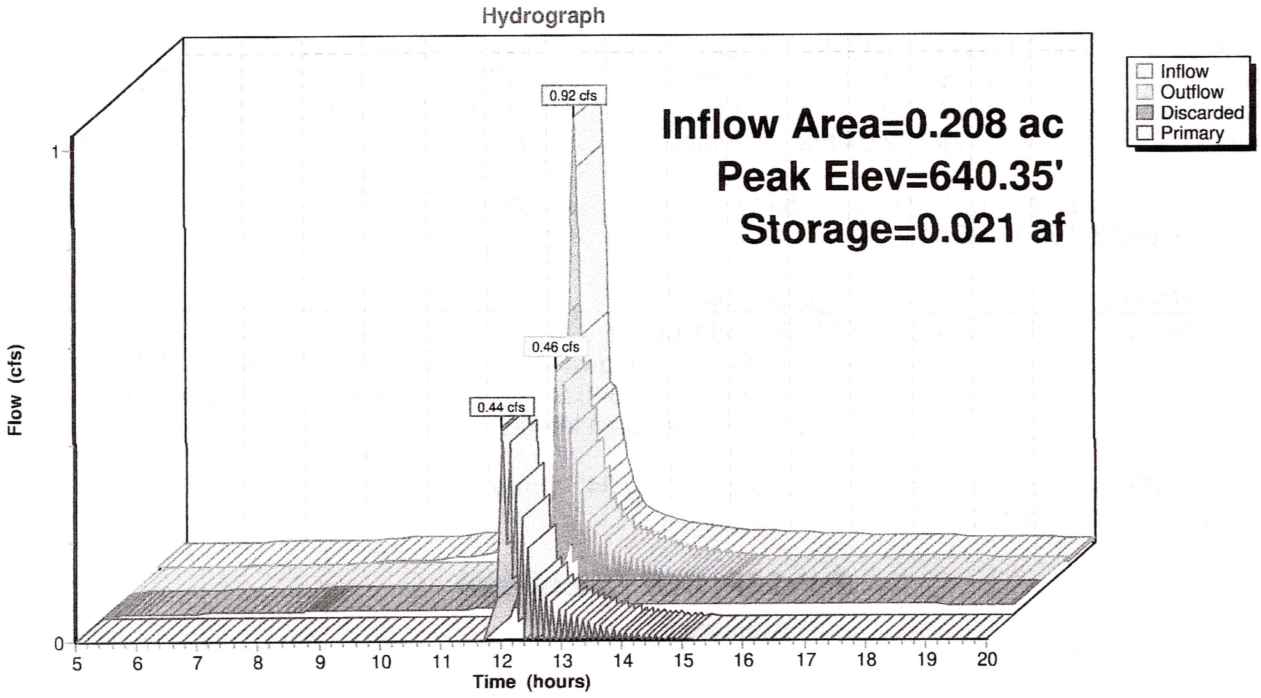
1,854.8 cf Field - 294.8 cf Chambers = 1,560.0 cf Stone x 40.0% Voids = 624.0 cf Stone Storage

Stone + Chamber Storage = 918.8 cf = 0.021 af

20 Chambers
68.7 cy Field
57.8 cy Stone



Pond 6P: (new Pond)



Summary for Pond 8P: DOT CatchBasin

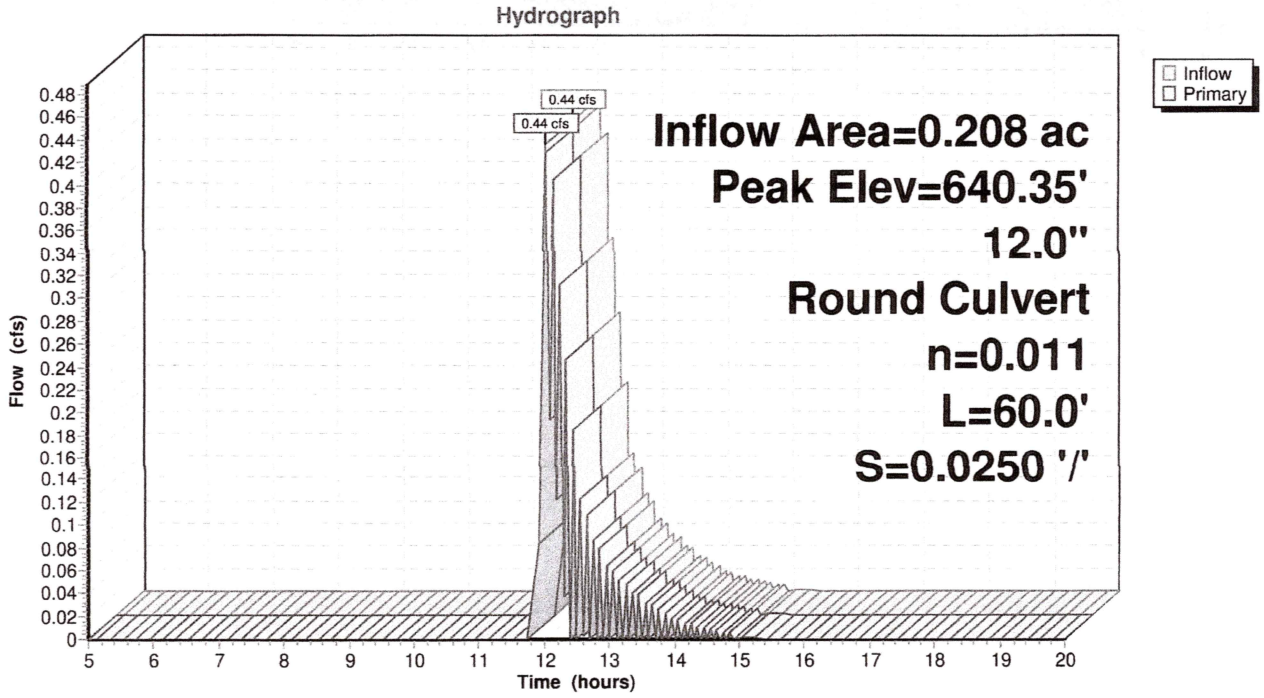
Inflow Area = 0.208 ac, 61.70% Impervious, Inflow Depth = 0.77"
Inflow = 0.44 cfs @ 12.04 hrs, Volume= 0.013 af
Outflow = 0.44 cfs @ 12.04 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.44 cfs @ 12.04 hrs, Volume= 0.013 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 640.35' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	640.00'	**12.0" Round Culvert** L= 60.0' Box, 0° wingwalls, square crown edge, Ke= 0.700 Inlet / Outlet Invert= 640.00' / 638.50' S= 0.0250 '/' Cc= 0.900 n= 0.011 PVC, smooth interior

Primary OutFlow Max=0.41 cfs @ 12.04 hrs HW=640.34' (Free Discharge)
1=Culvert (Inlet Controls 0.41 cfs @ 1.75 fps)

Pond 8P: DOT CatchBasin



Attachment C

NYSDOT Perm 33 Application

Stage 1: Initial Proposal Review

In the Initial Proposal Review, an applicant should provide the following basic information about the proposed project concept and scope. A face-to-face meeting with the applicant is typically held during this review, and a representative of the impacted municipality is invited to attend. Your NYSDOT Regional Permit Coordinator can provide answers to any questions concerning the driveway design and the permit review process.

Complete questions 1.1 through 1.7 and submit this application/checklist, along with plans to the Regional Permit Coordinator. The Department will review the submission and respond with comments and recommendations that need to be addressed before continuing to Stages 2 (Design Review) and 3 (Final Submission).

1.1 Contact Information

A. Name of Applicant Michelle & Martino Monaco

Number and Street (mailing address) 1420 Union Road

City West Seneca Zip Code 14224

Daytime phone (716) 827-3003 E-mail address

B. Name of Property Owner *(if different)* 2855 Clinton Street ☐ Same as Applicant

Number and Street (mailing address) 3260 Clinton Street

City West Seneca Zip Code 14224

Daytime phone (716) 827-3003 E-mail address

C. Firm Name of Consultant *(if applicable)* Milex Engineering ☒ Agent for Applicant

Contact Name Christopher S. Andrzejewski, P.E.

Number and Street (mailing address) S 6887 Taylor Road

City Hamburg Zip Code 14075

Daytime phone (716) 628-6120 E-mail address milex.Chris@gmail.com

1.2 Property Location Information

Number and Street *(include State Route Number)*

1420 Union Road

City/Town/Village West Seneca **Zip Code** 14224

Nearest Cross Street with Distance and Direction:

Approx. 260 feet South of Center Road

Between State Highway Reference Markers:

77 5301 1115 **to** 277 5301 1116

NYSDOT Reference Marker Manual

Approximate Latitude and Longitude of Proposed Driveway:

42.83876, -78.75424

Find Latitude and Longitude

Comment:

1.3 Project Name and Brief Description of Proposed Work

Project or Development Name 1420 Union Road Parking Lot Expansion

State Highway Number 277N **Municipality** West Seneca

Brief Description of Proposed Work

The project will consist of the expansion of an existing parking area for a multi residential property located at 1420 Union Road, in the Town of West Seneca, New York. The project will increase the site's impervious area in order to create additional parking spaces.

1.4 Anticipated Permit Type and Fees

Permit fees are payable at Final Submision (except 5a4).

MINOR COMMERCIAL: Less than 100 vehicles/hour entering volume and no anticipated mitigation on state highway:

- [X] 5a2 Minor Commercial - Permit Fee $550
- [ ] 5a2a Minor Commercial (Home Business) - Permit Fee $100

MAJOR COMMERCIAL: 100 + vehicles/hour entering volume and/or anticipated mitigation on state highway:

- [ ] 5a3 Major Commercial (<100K sq. ft. GBA) - Permit Fee $1,400
- [ ] 5a4 Major Commercial (100K sq. ft.+ GBA) - Permit Fee $2,000
  $2,000 fee due at time of application, with balance of actual design review costs payable when billed.

SUBDIVISION STREET:

- [ ] 5a5 Permit Fee $900

Comment:

1.5 Maps and Plans

The following maps and plan information should be submitted. Check all that are included with the Initial Proposal Review Submission:

- [X] Location map with subject property identified (Google or Bing mapping is suitable)
- [X] Tax map showing the subject parcel and all parcels immediately adjacent to it
- [ ] Survey of property (a plat is acceptable)
  - [ ] Right-of-way acquisition or donation is anticipated
- [ ] Available record plans
- [ ] Limits and legal description of any easements on the property, as well as on any adjacent parcels, must be clearly depicted on the submitted plans.
- [X] Initial Proposal Plan (sketch)

  It is recommended that this be shown on an aerial photo. The sketch should show the following, with labels:

  - proposed driveways
  - type of driveway (one-way or two-way)
  - existing and proposed parking areas
  - existing and proposed buildings
  - dimensions for building offsets from property lines
  - distances from proposed driveway(s) to any intersection within 1000 ft. (300 m)
  - distances to any other driveways within 500 ft. (150 m)
  - streets, roads and properties opposite the subject property

Comment:

1.6 Traffic Impacts

A. Briefly describe the type of development that will be served by the driveway(s):

Commercial beauty salon and parking area.

Comment:

B. Average Annual Daily Traffic (AADT) for the highway: 28,978

AADT is available online through the NYSDOT Traffic Data Viewer.

Comment:

C. Posted speed on state highway where entrance will be placed:

40 mph

Comment:

D. Number of one-way vehicular trips for the proposed driveway:

AM Peak Hour: 8 : 00 a.m. to 12 : 00 p.m.

AM Peak Volume: 16

PM Peak Hour: 12 : 00 p.m. to 6 : 00 p.m.

PM Peak Volume: 16

If the proposed access is for retail use, please provide:

Saturday Peak Hour: 8 : 00 a.m. to 4 : 00 p.m.

Saturday Peak Volume: 32

Trips generated should not be reduced by pass-by or other credits.

Comment:

Limited traffic patterns anticipated for this location due to the nature of the commercial business and limited residential apartments. Traffic is anticipated to be intermittent with limited impacts to surrounding traffic patterns.

E. How was the number of vehicular trips determined?

- ☐ Similar development history
- ☐ ITE *Trip Generation Manual*
- ☒ Estimate from a NYS Licensed Professional Engineer

Comment:

F. Is a Traffic Impact Study (TIS) required?

- ☒ A TIS is not required
- ☐ A TIS is required, and is in progress
- ☐ A TIS is required, and is attached
- ☐ Not sure if a TIS is required, need more information

Guidance on how to determine if a Traffic Impact Study is needed, and what elements should be included, can be found at https://www.dot.ny.gov/CommercialHWP/traffic-impact.

Comment:

Do to the nature of the site and limited capacity, it is not anticipated that a TIS would be required.

1.7 Environmental Impact

A.	**State Environmental Quality Review (SEQR) Lead Agency:** Town of West Seneca	**Comment:**
B.	**SEQR Type** *Select one*: ☐ Type I ☐ Type II ☒ Unlisted	**Comment:**
C.	**SEQR Status:** *SEQR (State Environmental Quality Review) documentation must be complete before a permit will be issued.* ☐ The lead agency has not yet been notified of the action ☒ The lead agency has been notified of the action and the SEQR process is underway ☐ The SEQR process is complete and the lead agency has made a declaration (*Attach a copy of the determination, if available*) Highway Design Manual (HDM) Section 5A.2.1.3 – SEQRA Coordination	**Comment:**

ACKNOWLEDGMENT: I HEREBY REQUEST A HIGHWAY WORK PERMIT, AND DO ACKNOWLEDGE AND AGREE TO THE RESPONSIBILITIES OF PERMITTEE AND OTHER OBLIGATIONS SET FORTH IN THIS PERMIT AND WARRANT COMPLIANCE THEREWITH.

Michelle M Monaco — APPLICANT SIGNATURE

5-18-22 — DATE

Michelle M. Monaco — PRINTED APPLICANT NAME

STOP

STOP HERE for an Initial Proposal Review Stage Submission

Print this application/checklist, sign above and submit along with plans to the Regional Permit Coordinator. Save this document on your computer to update for future stage submissions.

Stage 2: Design Review and Plan Requirements

After satisfactorily addressing all comments received in the Initial Proposal Review, continue to develop your application by submitting plans for Stage 2, Design Review. Please be sure to include all elements listed in this checklist and outlined in the Plan Requirements.

2.1 Number and Spacing

Does the proposed number of driveways, spacing of driveways and spacing to intersections meet the criteria of Figure 5A-3 – Driveway Location Standards?

☒ Yes ☐ No

Highway Design Manual (HDM) Section 5A.4.1 - Spacing

Comment:

2.2 Sight Distance

Comment:

A. **From the proposed driveway, at a point 14-18 ft. from the edge of the travel lane, identify the sight distance (42 in. eye and object height) to the**

Right: _____ ft. Left: _____ ft.

B. **Using a 2 ft. object height, identify the stopping sight distance (SSD) to the**

Right: _____ ft. Left: _____ ft.

C. **Do the minimum stopping sight distances conform to Highway Design Manual Appendix 5B - Vertical Highway Alignment Sight Distance Charts and Highway Design Manual Exhibit 7-7 - Minimum Stopping Sight Distance (SSD)?**

☐ Yes ☐ No

D. **Do the intersection sight distances conform to Highway Design Manual (HDM) Section 5.9.5 – Intersection Sight Distances and Highway Design Manual (HDM) Appendix 5C - Intersection Sight Distance Charts?**

☐ Yes ☐ No

Highway Design Manual (HDM) Section 5A.4.2 – Sight Distances

2.3 Width

A.

Permissible Range of Driveway Widths		
Driveway Classification	**Within 30 ft. of traveled way, for roads posted 40 mph or less**	**Within 30 ft. of traveled way, for roads posted 45 mph or more**
Minor Commercial Shared Two-way Driveway	22 ft. to 30 ft.	28 ft. to 35 ft.
Minor Commercial Divided or One-way Driveway	12 ft. to 24 ft.	12 ft. to 24 ft.
Minor Commercial Multi-lane Driveway	12 ft. to 15 ft. lanes	14 ft. to 16 ft. lanes

Select a driveway width: Select One

Comment:

B. *The design vehicle is the largest vehicle that frequently uses a facility. Refer to Highway Design Manual (HDM) 5.7.1 - Design Vehicle and AASHTO's "A Policy on Geometric Design of Highways and Streets."*

What is the design vehicle for the driveway?

- ☐ SU-30/Bus
- ☐ WB-50 (*Requires turning movements to be shown on plans*)
- ☐ WB-62/67 (*Requires turning movements to be shown on plans*)

2.4 Corner Angle and Layout Method

Refer to Driveway Entrance Type Selection table (NYSDOT 608-03 Standard Sheets, Sheet 2 of 7, Table 4)

Comment:

Entrance type and angle:

- ☐ Radius
  - Select corner angle: Select One °
  - **or**
- ☐ Taper
  - Select corner angle: Select One °

2.5 Complete Streets and Americans with Disabilities Act (ADA)

Projects must be designed to provide safe, convenient accessible accommodations for all road users (including pedestrians, bicyclists, public transportation riders) where warranted, in the public right-of-way.

Proposed pedestrian accommodations must comply with the Americans with Disabilities Act, as described in Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way.

Comment:

- ☐ The proposed work will maintain or enhance accommodations for pedestrians, bicyclists and/or public transit users in the public right-of-way.
- ☐ The proposed work will have little or no effect on pedestrians, bicyclists and/or public transit users in the public right-of-way.

Highway Design Manual (HDM) 5A.4.6 - Sidewalks, Walkways and Stairways | NYSDOT Complete Streets website

2.6 Maximum Grade

Maximum grade of proposed driveway, within 30 ft. of the edge of the travel lane : Select One

In urban areas, the maximum grade is 6%. In rural areas, the maximum grade is 10%.

Maximum Slope table (NYSDOT 608-03 Standard Sheets, Sheet 2 of 7, Table 2)

Comment:

2.7 Underground Utilities

Any existing underground utilities within the right-of-way should be identified and located during design of the proposed driveway and shown on the proposed driveway plan(s).

Identify all methods/resources used to locate utilities:

- ☐ Existing records and drawings
- ☐ Ground survey of utility facilities
- ☐ Information obtained from utility company(ies)
- ☐ Subsurface Utility Engineering (SUE)
  - ☐ 2D mapping
  - ☐ 3D mapping
- ☐ None

Comment:

2.8 Drainage

A. **Is the proposed drainage** ☐ closed **or** ☐ open?

B. *If the drainage is open, and the driveway will cross a ditch, a culvert with a tapered/flared end section is needed.*

Culverts shall be designed using the Rational Method (Q=CiA) and shall be no less than 15 in. in diameter.

Inside diameter of proposed culvert: Select One

Culvert pipe material: Select One

C. *If over 2,000 sq. ft. of impervious area on the site will drain to the state right-of-way, refer to Highway Design Manual (HDM) 5A.6.3 – Drainage Study to determine if a drainage study is required. If so, use the standardized Drainage Report shell to develop the study.*

Is a drainage study required?

- ☐ No
- ☐ Yes. A drainage study is required and is attached.

D.

- ☐ **Applicable NYSDOT 603 Standard Sheet details are shown on the plans**
- ☐ **Details other than those shown on the NYSDOT 603 Standard Sheets are being used** (*Please identify in "Comment" area to the right*)

Highway Design Manual (HDM) Section 5A.4.5 – Drainage

Comment:

2.9 Curb

A. *Sloped curb (T-100 curb) is preferred where the posted speed is 40 mph or more. 6" vertical curb is not permitted where the posted speed is 50 mph or more.*

Type of curb to be used: Select One

Comment:

B. ☐ **Applicable** NYSDOT 609 Standard Sheet **details are shown on the plans**

☐ **Details other than those shown on the 609 NYSDOT Standard Sheets are being used** (*Please identify in "Comment" area to the right*)

Highway Design Manual (HDM) 5A.4.5.2 - Curbing

Comment:

2.10 Guide Rail

A. **Will guide rail need to be modified or installed?**

☐ No

☐ Yes

Comment:

B. *If yes:*

What is the length (including end sections) and type of guide rail?

☐ ≥ 200' – cable*

☐ ≥ 100' – weak post w-beam with anchors

☐ ≥ 200' – weak post w-beam without anchors

☐ ≥ 125' – box beam

☐ ≥ 100' – heavy post blocked-out

**Cable guide rail should not be used on roads with AADT over 5,000 vehicles per lane per day, unless NYSDOT Maintenance agrees to assume the increased time and cost of maintenance.*

C. **What is the deflection distance behind the guide rail (i.e., distance to objects or drop-offs)?**

Select One

For post spacing to achieve minimum deflection distances, refer to Highway Design Manual (HDM) Table 10-3 –Barrier Deflections for Standard Impacts.

D. **Select the guide rail end-section type:**

Select One

NOTE: Please ensure that the type of guide rail system matches in all of the above responses

E. ☐ **Applicable** NYSDOT 606 Standard Sheet **details are shown on the plans**

☐ **Details other than those shown on the 606 NYSDOT Standard Sheets are being used** (*Please identify in "Comment" area to the right*)

Highway Design Manual (HDM) Chapter 10 – Roadside Design, Guide Rail, and Appurtenances | Guide Rail Quick Reference Sheet

2.11 Driveway Materials

A. *Refer to* Driveway Materials and Thickness table (NYSDOT 608-03 Standard Sheets, Sheet 2 of 7, Table 3)

Select the proposed driveway material within the first 10 feet from traveled way:

- ☐ Concrete
  - Thickness of concrete: Select One
  - Thickness of sub-base: Select One
- ☐ Asphalt
  - Thickness of top course: Select One
  - Thickness of binder course: Select One
  - Thickness of base course: Select One
  - Thickness of sub-base course: Select One

B. **Select the proposed driveway material from 10 feet to 30 feet from traveled way:**

- ☐ Concrete
  - Thickness of concrete: Select One
  - Thickness of sub-base: Select One
- ☐ Asphalt
  - Thickness of top course: Select One
  - Thickness of binder course: Select One
  - Thickness of base course: Select One
  - Thickness of sub-base course: Select One
- ☐ Precast Pavers
  - Thickness of pavers: Select One
  - Thickness of bedding course: Select One
  - Thickness of base course: Select One
  - Thickness of sub-base course: Select One
- ☐ Stone
  - Thickness of stone course: Select One

C. **Is shoulder reconstruction needed?**

- ☐ Yes [Use NYSDOT Standard Sheet 608-03, Sheet 5 of 7]
- ☐ No

Comment:

2.12 Work Zone Traffic Control

Work zone traffic control (WZTC) must be employed to provide a safe work area while facilitating the safe and orderly flow of all road users.

Provide or identify WZTC drawings meeting site-specific WZTC needs and documenting that WZTC conforms to the Manual on Uniform Traffic Control Devices (MUTCD), NYS Supplement to the MUTCD, NYSDOT 619 Standard Sheets and any other applicable details furnished by the NYSDOT Regional Traffic Group.

Comment:

A. What WZTC specification items will be used? *(Check all that apply)*

- ☐ NYSDOT Standard Specification 619 items
- ☐ Special Specification items *(Please identify items and provide justification in "Comment" area to the right)*

B.

- ☐ **Applicable 619 NYSDOT Standard Sheet details are shown on the plans.** *(Refer to the WZTC Standard Sheet Selection tool to determine which Standard Sheets are applicable.)*
- ☐ **Details other than those shown on the 619 NYSDOT Standard Sheets are being used** *(Please identify in "Comment" area to the right)*

Highway Design Manual (HDM) 5A.3.5 - Traffic Control and Work Site Safety

2.13 Specifications

Identify the NYSDOT Specifications to be used for construction within the state highway boundary and within 30' of driveway opening: *(Check all that apply)*

Comment:

- ☐ 554.50000015 Low Height Retaining Wall System
- ☐ 608.0105NN15 Curb Ramp
- ☐ 608.01100015 Concrete Sidewalk
- ☐ 608.01101015 Concrete Driveway Apron
- ☐ 609.10010015 Curbing
- ☐ 609.10010415 Asphalt Curbing
- ☐ 610.10000015 Landscape Development
- ☐ 645.86000015 Signs and Supports
- ☐ 680.01030015 Pedestrian Signal Systems
- ☐ 680.01040015 Traffic Signal Systems
- ☐ 685.20000015 Pavement Markings
- ☐ Other (*Please identify in "Comment" area to the right*)

2.14 Plan Requirements

A digital file (.pdf format) must be submitted. Contact your Regional Permit Coordinator (RPC) to determine if hard copies are required. The plans should be in US Customary units, at a scale of at least 1"=50' or larger, on 11" x 17" paper. A scale of 1"=20' should be used for closed drainage work.

Refer to Highway Design Manual (HDM) Chapter 20 (CADD Standards and Procedures) and Highway Design Manual (HDM) Chapter 21 (Contract Plans, Specifications and Estimate) for minimum text size, font and other drafting standards.

A. Plans shall include:

- Name and contact information of applicant
- State route number and adjacent highway reference markers
- Names of reputed owners of subject property and adjacent properties
- Tax map number of subject property
- North directional arrow
- Scale
- Note referencing NYSDOT 608-03 Standard Sheets

Comment:

B. Location and dimensions of existing features (as applicable):

Included	Not Present		Included	Not Present	
		-- Highway travel lanes (label edge of lanes)			Bus stops
		-- Road shoulder (label edge of shoulder)			-- All utilities and DOT cable (both public and private, overhead and/or underground)
		Curbs (identify material)			Traffic signs (include sign text)
		Guide rail (include type)			Traffic signals, poles and highway lighting
		Medians			-- Pavement markings within entire roadway section
		Sidewalk and curb ramps			-- Right-of-way, property lines and easements
		Stairways			Existing buildings or structures (bridges, retaining walls, etc.)
		Bike paths			Existing landscape features
		Bike lanes			
		Shared driveways or cross-access (include agreement signed by all parties involved)			

Comment:

C. Design features to be incorporated in proposed construction or reconstruction (as applicable)

Provided	Not Proposed		Comment:
☐	--	Edge of proposed driveway (include width and radii)	
☐	☐	Location of proposed median openings and guide rail	
☐	☐	Proposed buildings or structures	
☐	☐	Proposed privately owned utility connections in the right-of-way *(Note: an additional plan set and/or separate permit may be required for any proposed utility connections.* Information and applications for Highway Work Permits for Utility Work.*)*	
☐	☐	Dimensions of roadside islands and driveway medians	
☐	☐	Dimensions and elevations of curbs and sidewalks relative to the pavement edge	
☐	☐	Location of authorized traffic signs and/or pavement markings	
☐	☐	Location of commercial (advertising) signs	
☐	☐	Proposed walkways, stairways, and curb ramps	
☐	☐	Proposed landscape features	
☐	--	Reference to 608-03 NYSDOT Standard Sheets for driveway profile, or elevation view of driveway	
☐	--	Reference to 608-03 NYSDOT Standard Sheets for driveway typical section, or site-specific typical section	

D. Existing and proposed drainage features (as applicable):

Refer to Highway Design Manual (HDM) Section 5A.4.5 - Drainage

Provided	Not Present/ Proposed		Comment:
☐	☐	Driveway culverts (include size, type, grade, location of end section, and direction of flow)	
☐	☐	Highway drainage structures	
☐	☐	Grade and pipe invert elevations	
☐	--	Direction of surface water flow on applicant's property	
☐	☐	Contours (if there is any proposed modification of paved areas)	

E. Distance from each existing and proposed driveway on the site to:

Refer to Highway Design Manual (HDM) Section 5A.4.1- Spacing and Figure 5A-3

Included	Not Present		Comment:
☐	☐	The nearest side road in each direction, if within 1000 ft. (300 m)	
☐	☐	Nearest driveway on adjacent properties, if within 500 ft. (150 m)	
☐	☐	Streets, roads or driveways opposite the subject property	

F. Traffic Signal Plan(s), if required, must show:

Traffic signal plans must be on a separate sheet or sheets. Refer to NYSDOT 680 Standard Sheets.

Not Included	Present		Comment:
☐	☐	Existing features, such as drainage and overhead or underground utilities, which may conflict with the proposed signal	
☐	☐	Poles, power supply, pull boxes, conduit, controller, head layout (including face numbering), detection, output from a span wire analysis	
☐	☐	Right-of-way lines	
☐	☐	Signs (include sign text)	
☐	☐	Pavement markings and turn lanes	
☐	☐	Buildings and driveways	
☐	☐	Sidewalks, curb ramps and crosswalks, pedestrian pushbuttons, countdown timers	
☐	☐	Tables of operations, clearances, switch packs, input wiring, and loop wiring	
☐	☐	Phasing diagram	
☐	☐	Estimate of quantities	

Traffic Signal Permit Information

ACKNOWLEDGMENT: I HEREBY REQUEST A HIGHWAY WORK PERMIT, AND DO ACKNOWLEDGE AND AGREE TO THE RESPONSIBILITIES OF PERMITTEE AND OTHER OBLIGATIONS SET FORTH IN THIS PERMIT AND WARRANT COMPLIANCE THEREWITH.

_____ _____

APPLICANT SIGNATURE DATE

_____

PRINTED APPLICANT NAME

STOP HERE for a Design Review Stage Submission

Print this application/checklist, sign above and submit along with plans to the Regional Permit Coordinator. Save this document on your computer to update for future stage submissions.

Stage 3: Final Submission

After satisfactorily addressing all comments received in the Design Review Stage, finalize your application by submitting this application/checklist along with final sealed plans. Please be sure to include all elements listed in this checklist and outlined in the Plan Requirements.

3.1 Professional Engineer (PE) Sealed Plans

All Final Submission Plans must be sealed and signed by a New York State Licensed Professional Engineer.

3.2 Project Information

A.	**Estimated cost of work in the right-of-way: $** *Submit written estimate.*	**Comment:**
B.	**Anticipated duration of work:** **From** **to**	
C.	**Will overhead or underground (5 ft.+) operations be involved in the proposed work?** ☐ Yes ☐ No	

3.3 SEQR Determination

Date of Final SEQR Determination:

Comment:

3.4 Joint Applicant(s) *If applicable, list up to 3 additional joint applicants.*

Name of Applicant
Number and Street
City **Zip Code**
Daytime phone
E-mail address

Name of Applicant
Number and Street
City **Zip Code**
Daytime phone
E-mail address

Name of Applicant
Number and Street
City **Zip Code**
Daytime phone
E-mail address

Comment:

3.5 24-Hour Emergency Contact

Name

Phone

E-mail address

Comment:

3.6 Return Address

Permit should be returned to:

☐ Permittee identified in Part 1

☐ Other, address below:

Name

Number and Street

City **Zip Code**

Daytime phone

E-mail address

Comment:

3.7 Insurance

A. *Check one form of insurance to be provided:*

General Liability Insurance

A completed Certificate of Liability Insurance is required, evidencing required types and limits of insurance coverage, with the New York State Dept. of Transportation named as Additional Insured on the policy.

☐ **ACORD 25** Certificate of Liability Insurance with **ACORD 855** (New York Construction Addendum) attached

Undertaking (Municipalities, Public Utilities, Authorities, Railroads)

☐ Undertaking Agreement attached

B. **Workers' Compensation Insurance & Disability Benefits Coverage**

New York State Workers' Compensation Law requires that ALL permit applicants provide proof of Workers' Compensation Insurance and Disability Benefits Coverage on one of the following forms. If exempt from coverage, the applicant must provide Form CE-200 Proof of Exemption, which can be obtained on the Workers' Compensation Board website: NYS Workers' Compensation Board Insurance Exemption Form

Certificate of Workers' Compensation Insurance

☐ Form C-105.2
☐ Form U-26.3
☐ Form SI-12
☐ Form CE-200 Exemption

Certificate of Disability Benefits Coverage

☐ Form DB-120.1
☐ Form DB-155
☐ Form CE-200 Exemption

For further information on Insurance Requirements for Highway Work Permits, go to: www.dot.ny.gov/permits-insurance

Comment:

3.8 Performance Security

A. *Check one type of performance security:*

- ☐ **Guarantee Deposit** **AMOUNT $**
- ☐ **Performance Bond** **AMOUNT $**
  - ☐ PERM 44 Surety Bond – Performance is attached
- ☐ **Letter of Credit**

B. **Guarantee Deposit Check or Bond Number:**

C. **Return deposit/bond to:**

- ☐ Permittee identified in Part 1
- ☐ Other, address below:

Name

Number and Street

City **Zip Code**

Daytime phone

E-mail address

Comment:

3.9 Inspection/Supervision Payment Agreement & Consultant Agreement

- ☐ An Inspection/Supervision Payment Agreement (PERM 50) is required and is attached
- ☐ A Consultant Agreement (PERM 36) is required and is attached
- ☐ A Special Conditions for Commercial-Major Non-Utility Highway Work Permit (PERM 55a) is required for work in the highway R.O.W. equal to or exceeding $250,000, and is attached.

Comment:

3.10 Permit Fee

A. *The permit fee is payable by check, paid to the order of "NYSDOT"*

Select Operational Type and Fee amount:

Select One

B. ☐ **A check for the permit fee is attached.**

Check No:

Comment:

NOTE: PERMIT IS ISSUED CONTINGENT UPON ALL LOCAL REQUIREMENTS BEING SATISFIED.

ACKNOWLEDGMENT: I HEREBY REQUEST A HIGHWAY WORK PERMIT, AND DO ACKNOWLEDGE AND AGREE TO THE RESPONSIBILITIES OF PERMITTEE AND OTHER OBLIGATIONS SET FORTH IN THIS PERMIT AND WARRANT COMPLIANCE THEREWITH.

Applicant signature _____ Date _____

Printed applicant name _____

Additional applicant signature _____ Date _____

Printed additional applicant name _____

Additional applicant signature _____ Date _____

Printed additional applicant name _____

Additional applicant signature _____ Date _____

Printed additional applicant name _____

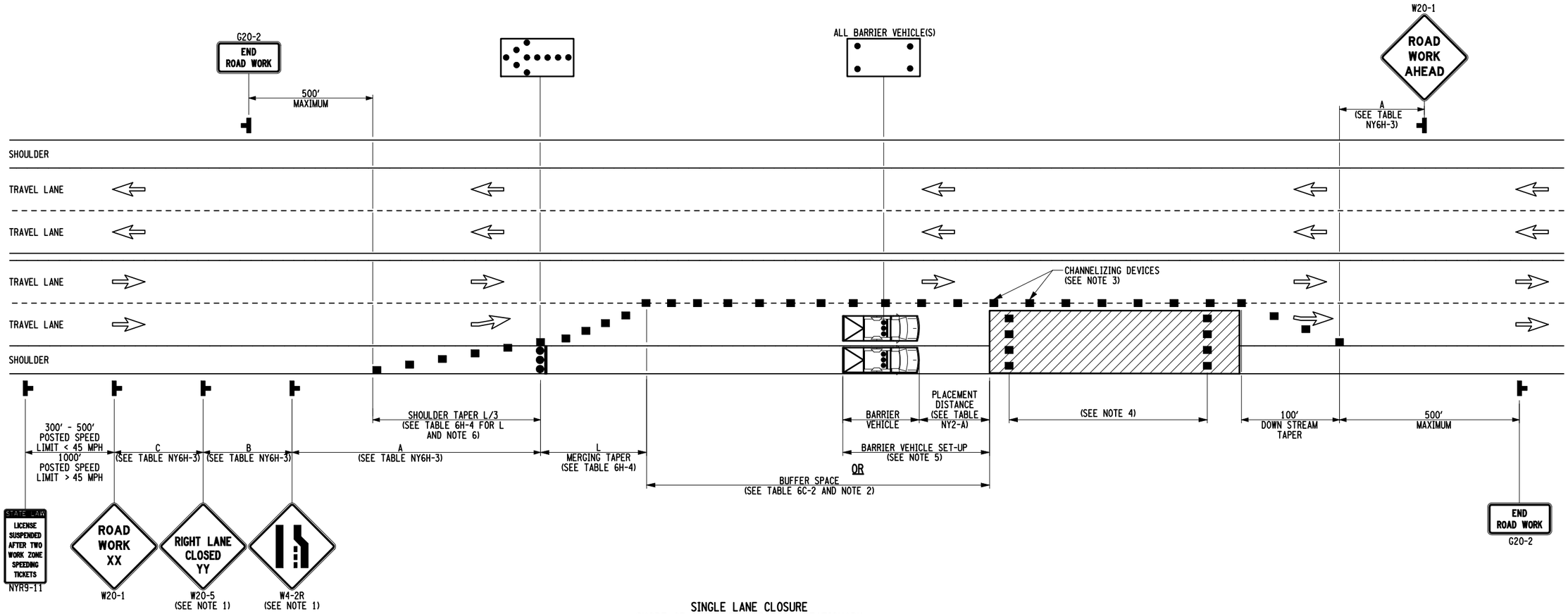
TO BE COMPLETED BY NYSDOT ISSUING OFFICE:

Approval recommended by Resident Engineer: _____

Residency Number: _____ Date: _____

Approval recommended by Regional Traffic Engineer: _____

Region Number: _____ Date: _____



SINGLE LANE CLOSURE
SHORT OR INTERMEDIATE TERM STATIONARY
MULTI LANE HIGHWAY (UNDIVIDED)
(NOT TO SCALE)

NOTES:

1. LEFT LANE CLOSURES ARE SYMMETRICAL TO RIGHT LANE CLOSURES. SUBSTITUTE LEFT LANE CLOSED SIGN (W20-5) AND THE CORRESPONDING LANE ENDS SIGN (W4-2L).
2. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
4. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
5. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
6. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND TO DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVELED WAY.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

SINGLE LANE CLOSURE
MULTI LANE HIGHWAY

APPROVED SEPTEMBER 18, 2008

/S/ DAVID J. CLEMENTS, P.E.
DIRECTOR, OFFICE OF
TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 08-036

619-30

EFFECTIVE DATE: 01/08/09

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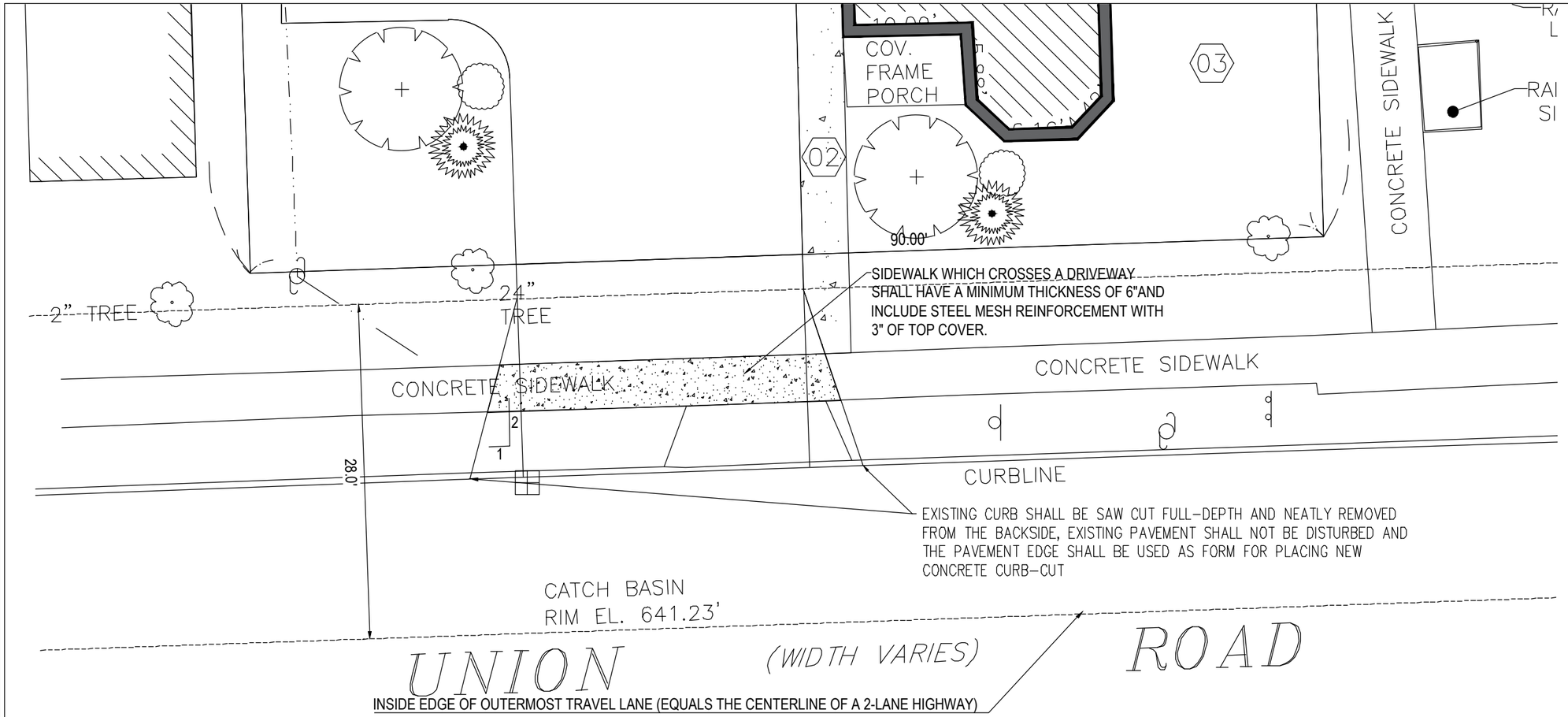

TYPER LAYOUT

1"= 20'

NOTES

1. DRIVEWAY MATERIAL AND THICKNESS SEE SHEET 2
2. NYS DOT TYPICAL DRIVEWAY ENTRANCE DETAILS REF. SHEET 2

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Seal

Revisions / Issues

No.	Description	Date

Client Name
2855 Clinton Street Inc.
1420 Union Rd.
West Seneca NY 14224

Project Name
1420 Union Road Beauty Salon Parking Area Expansion

Sheet Name
DRIVEWAY ENTRANCE

Project number	30.4
Date	5 mAY 2022
Designed by	CA/TZ
Drawn by	TZ
Checked by	CA

1

Scale As Noted

TZ

TABLE 3
DRIVEWAY MATERIALS AND THICKNESS

PROPOSED OR EXISTING DRIVE	WITHIN DRIVEWAY PAVEMENT LENGTH ("PL")			WITHIN TRANSITION LENGTH ("TL")		
	MATERIAL	THICKNESS FOR RESIDENTIAL (IN.)	THICKNESS FOR MINOR COMMERCIAL (IN.)	MATERIAL	THICKNESS FOR RESIDENTIAL (IN.)	THICKNESS FOR MINOR COMMERCIAL (IN.)
DIRT, GRASS, OR GRAVEL	HMA	3	4	SUBBASE COURSE, EXCAVATE AS NECESSARY	6	9
	SUBBASE COURSE	6	8			
STONE	HMA	3	4	STONE, EXCAVATE AS NECESSARY	8	11
	SUBBASE COURSE	6	8			
HMA (RESURFACING)	HMA	1½	1½	NOT APPLICABLE - ALL WORK ON AN EXISTING PAVED DRIVEWAY IS WITHIN THE DRIVEWAY PAVEMENT LENGTH		
	TRUE AND LEVELING COURSE	AS NECESSARY	AS NECESSARY			
HMA (RECONSTRUCTION)	HMA	3	4 (SEE NOTE 8)	NOT APPLICABLE - ALL WORK ON AN EXISTING PAVED DRIVEWAY IS WITHIN THE DRIVEWAY PAVEMENT LENGTH		
	SUBBASE COURSE	6	8 (SEE NOTE 10)			
PCC	PCC	6	6 (SEE NOTE 9)	NOT APPLICABLE - ALL WORK ON AN EXISTING PAVED DRIVEWAY IS WITHIN THE DRIVEWAY PAVEMENT LENGTH		
	SUBBASE COURSE	6	8 (SEE NOTE 10)			

TYPE 3 DRIVEWAY ENTRANCE

FOR RESIDENTIAL OR COMMERCIAL DRIVEWAYS IN URBAN AREAS WITH POSTED SPEEDS OF 45 MPH OR LESS

TAPER METHOD WITH SIDEWALK AWAY FROM CURB OR NO SIDEWALK
NOTE: SEE TAPER METHOD OF LAYOUT NOTES ON SHEET 3

WARNING
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Revisions / Issues

No.	Description	Date

Client Name
2855 Clinton Street Inc.
1420 Union Rd.
West Seneca NY 14224

Project Name
1420 Union Road Beauty Salon Parking Area Expansion

Sheet Name
NYSA DOT Residential and minor commercial driveway 608-03

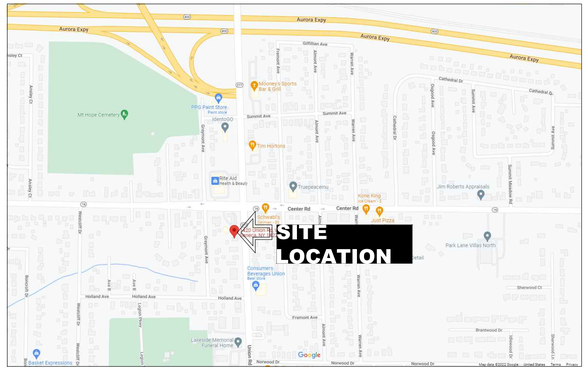
1

Scale As Noted

Attachment C

BEAUTY SALON PARKING AREA EXPANSION
1420 UNION ROAD WEST SENECA, NY 14224

LOCATION MAP



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1420 UNION ROAD
WEST SENECA NY, 14224

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BUFFALO, NY 14202
Telephone: (716) 8498739

SURVEYOR

DRAWING INDEX

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Seal

Revisions / Issues

No.	Description	Date

Client Name
2855 Clinton Street Inc.
1420 Union Rd.
West Seneca NY 14224

Project Name
1420 Union Road Beauty Salon Parking Area Expansion

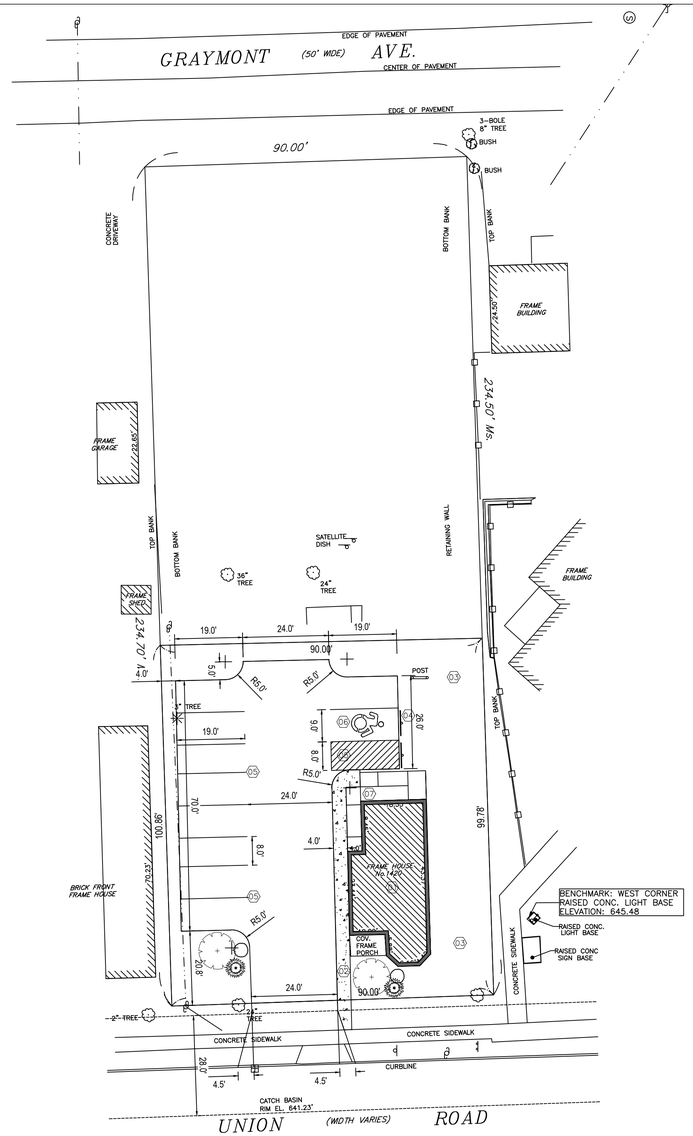
Sheet Name
COVER

Project number	30.4
Date	5 May 2022
Designed by	CA/TZ
Drawn by	TZ
Checked by	CA

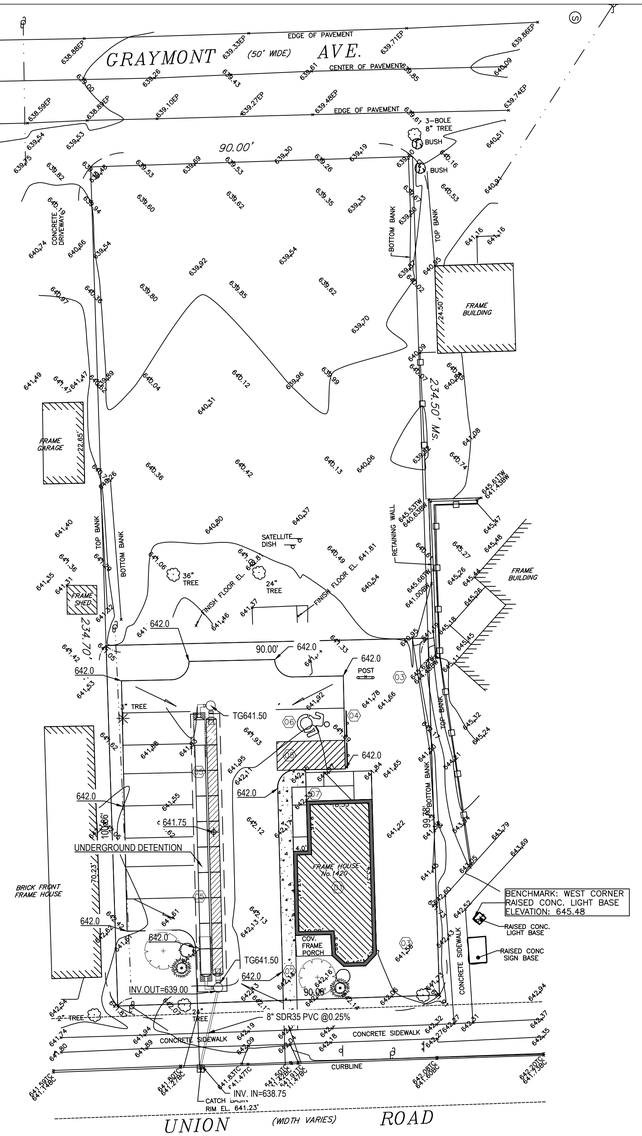
C-100

Scale As Noted

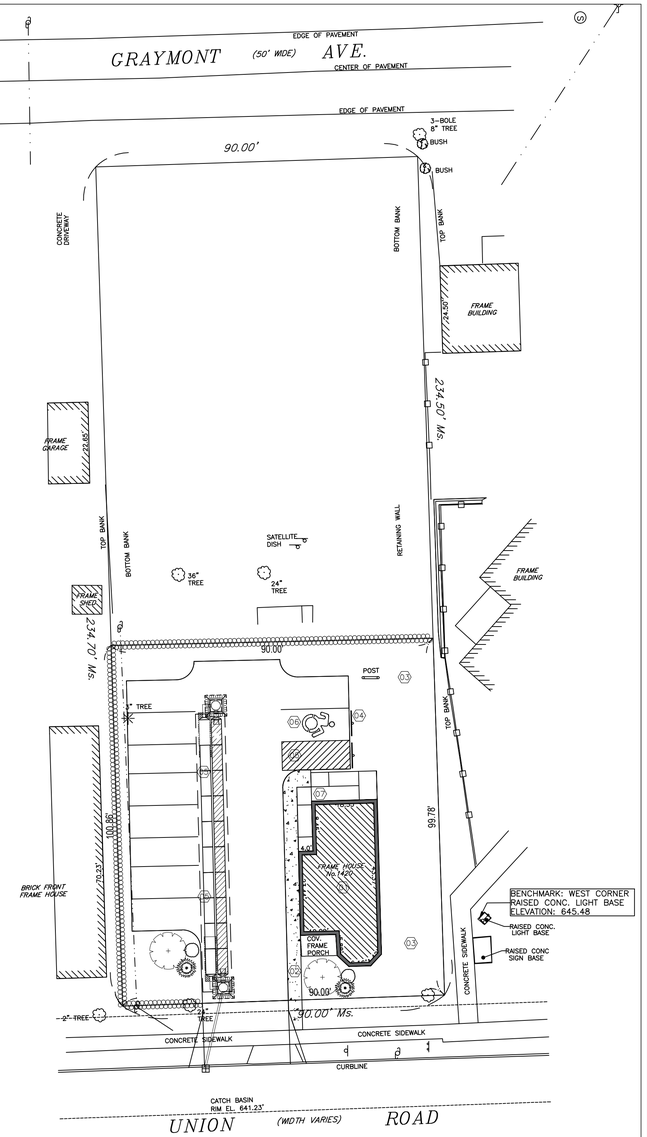
TZ



SITE IMPROVEMENT PLAN
1"= 20'



STORM DRAINAGE PLAN
1"= 20'



EROSION CONTROL PLAN
1"= 20'

SITE DATA

1. TOTAL SITE AREA: 0.48 +/- acres
2. AREA TO BE DEVELOPED: 0.21+/- acres
3. ZONING: C-1 COMMERCIAL
4. USE: COMMERCIAL
5. PROPOSED PARKING : 10PKG
6. IMPERVIOUS AREA: EXISTING 0.089Acres
7. PROPOSED 0.128 Acres

SITE IMPROVEMENT LEGEND

- ⟨01⟩ EXISTING BUILDING
- ⟨02⟩ CONCRETE SIDEWALK INSTALLED BY GC.
- ⟨03⟩ LANDSCAPE AREA INSTALLED BY GC.
- ⟨04⟩ "HANDICAP PARKING" SIGNS, TYPICAL AT EACH HANDICAP STALL, FURNISHED AND INSTALLED BY GC. REF. SHEET C-101
- ⟨05⟩ TRAFFIC STRIPING 4" WIDE PAINTED (SHERWIN WILLIAM'S WHITE TRAFFIC TM 2116) PARALLEL STRIPES AT 16" O.C. FURNISHED AND INSTALLED BY GC.
- ⟨06⟩ PAVEMENT SYMBOL AND LETTERING PER D.O.T. SPECIFICATIONS (TYP), FURNISHED AND INSTALLED BY GC.REF. SHEET C-100
- ⟨07⟩ WHEELCHAIR RAMP EXISTING

LANDSCAPING LEGEND

- THE KATSURA TREE (CERCIDIPHYLLUM JAPONICUM)
- COLORADO BLUE SPRUCE (PICEA PUNGENS 'GLAUCA')
- JUNIPER 'WICHITA BLUE' (JUNIPERUS SCOPULORUM 'WICHITA')

GENERAL NOTES:
SURVEY COMPLETED 3-14-1917 BY KHEOPS ARCHITECTURE, ENGINEERING & SURVEY, DPC

EROSION CONTROL LEGEND

SILT SOCK REF. DETAIL

INLET PROTECTION REF. DETAILS

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Seal

Revisions / Issues

No.	Description	Date

Client Name
2855 Clinton Street Inc.
1420 Union Rd.
West Seneca NY 14224

Project Name
1420 Union Road Beauty Salon Parking Area Expansion

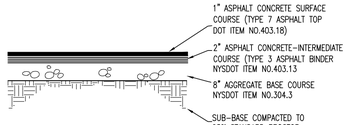
Sheet Name
Site, Storm Drainage and Erosion Control Plans

Project number	30.4
Date	5 mAY 2022
Designed by	CA/TZ
Drawn by	TZ
Checked by	CA

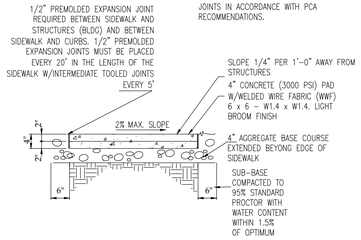
C-101

Scale As Noted

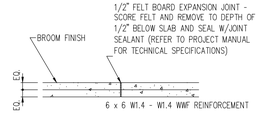
TZ



STANDARD DUTY PAVEMENT
NTSC

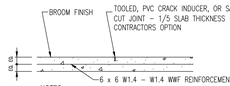


CONCRETE SIDEWALK (SECTION)
NTSC



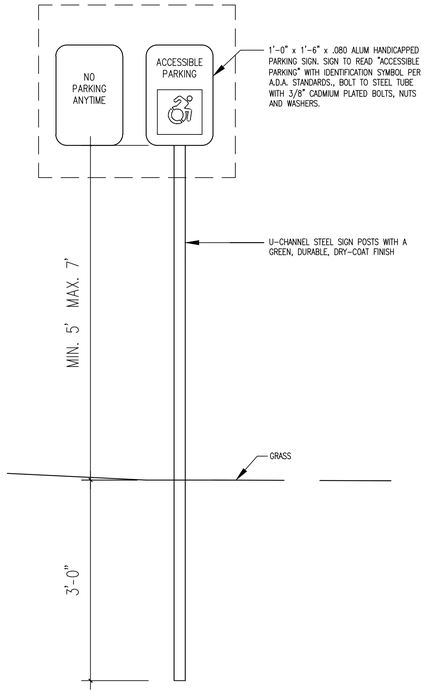
NOTES:
1. PROVIDE CRACK CONTROL JOINTS IN SIDEWALKS EVENLY SPACED AT 5'-0" O.C. MAXIMUM, WITH EVERY FOURTH JOINT TO BE AN EXPANSION JOINT.
2. AGGREGATE BASE COURSE & SUB-BASE NOT SHOWN FOR CLARITY

CONCRETE SIDEWALK-EXPANSION JOINT
NTSC

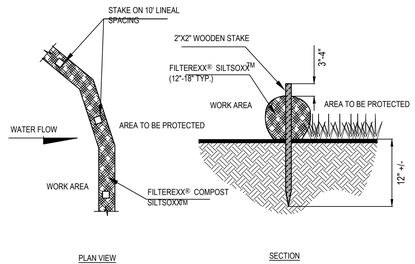


NOTES:
1. PROVIDE CRACK CONTROL JOINTS IN SIDEWALKS EVENLY SPACED AT 5'-0" O.C. MAXIMUM, WITH EVERY FOURTH JOINT TO BE AN EXPANSION JOINT.
2. JOINT MUST BE CUT WITHIN 24 HOURS OF POURING CONCRETE IF CONTRACTOR ELECTS TO SAW-CUT JOINT
3. AGGREGATE BASE COURSE & SUB-BASE NOT SHOWN FOR CLARITY.

CONCRETE SIDEWALK-CRACK CONTROL JOINTS
NTSC



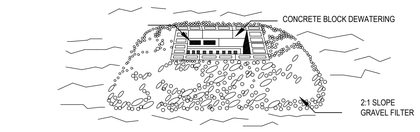
HANDICAPED PARKING SIGN (TYP)
NTSC



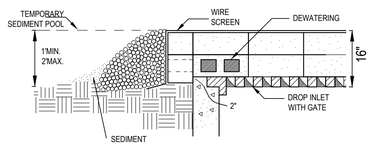
PLAN VIEW SECTION

1. SILT SOCK USED FOR PERIMETER CONTROL OF SEDIMENT AND SOLUBLE POLLUTANTS IN STORM RUNOFF SHALL MEET FILTREXX SOXX™ MATERIAL SPECIFICATIONS OR EQUIVALENT
3. SILT SOCK WILL BE PLACED AT LOCATIONS INDICATED ON PLANS
4. SILT SOCK SHOULD BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER DISTURBED AREA. IN EXTREME CONDITIONS (I.E., 2:1 SLOPES), A SECOND SILT SOCK SHALL BE CONSTRUCTED AT THE TOP OF THE SLOPE.
5. STAKES SHALL BE INSTALLED THROUGH THE MIDDLE OF THE SILT SOCK ON 10 FT (3M) CENTERS, USING 2 IN (50MM) BY 2 IN (50MM) BY 3 FT (1M) WOODEN STAKES. IN THE EVENT STAKING IS NOT POSSIBLE, I.E., WHEN SILT SOCK ARE USED ON PAVEMENT, HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SILT SOCK TO HELP STABILIZE DURING RAINFALL/RUNOFF EVENTS.
6. STAKING DEPTH FOR SAND AND SILT LOAM SOILS SHALL BE 12 IN (300MM), AND 8 IN (200MM) FOR CLAY SOILS.
7. LOOSE COMPOST MAY BE BACKFILLED ALONG THE UPSLOPE SIDE OF THE SILT SOCK FILLING THE SEAM BETWEEN THE SOIL SURFACE AND THE DEVICE, IMPROVING FILTRATION AND SEDIMENT RETENTION.
8. IF THE SILT SOCK IS TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDED AT TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.

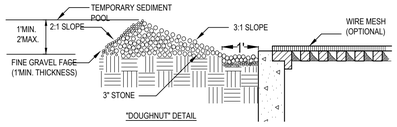
SILT SOCK (TYP.)
NTSC



STONE & BLOCK PLAN VIEW



STONE & BLOCK DETAIL



"DOUGHNUT" DETAIL

CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS. MAXIMUM DRAINAGE AREA 1 ACRE

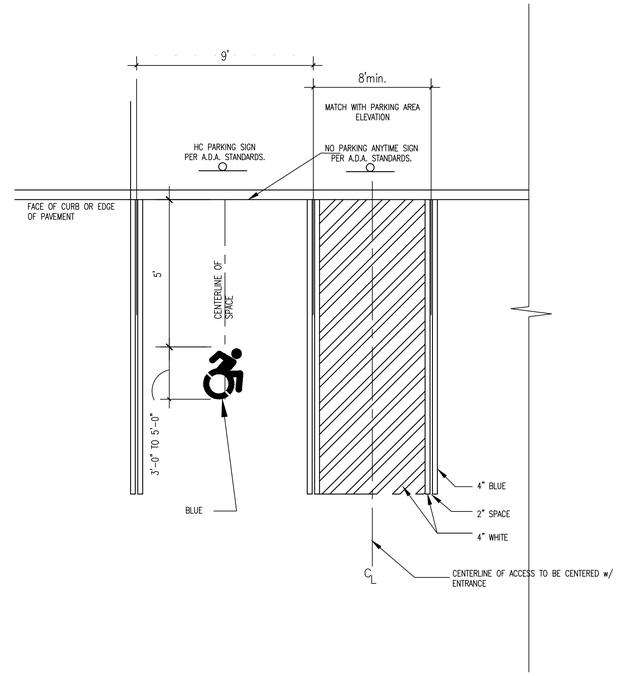
STONE & BLOCK DROP INLET PROTECTION
NTSC

CONSTRUCTION SEQUENCE NOTES

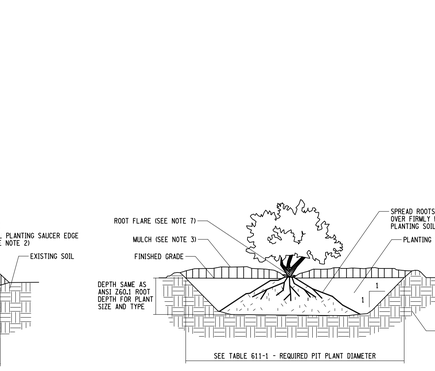
1. THE CONTRACTOR SHALL INSTALL SILT FENCE AND VEHICLE PADS PRIOR TO COMMENCING ANY SITE WORK
2.THE CONTRACTOR SHALL BUILD TEMPORARY SEDIMENT BASIN AS NECESSARY
3. UPON COMPLETION AND ACCEPTANCE OF ALL WORK PLANNED FOR THE SITE, THE CONTRACTOR SHALL REMOVE ALL SEDIMENT IN THE BASIN AND GRADE ACCORDING TO THE GRADING AND STORM SEWER PLAN.
4. EROSION CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL REMOVAL IS APPROVED BY ENGINEER. ALL REMAINING EROSION CONTROL PLAN FEATURES MAY BE REMOVED ON ACCEPTANCE OF THE WORK.

GENERAL SEDIMENT AND EROSIONS CONTROL NOTES

1. ALL WORK AND STANDARD SPECIFICATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE SOIL AND WATER CONSERVATION SOCIETIES, "NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL." ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL OF 0.5"
2. THE CONTRACTOR SHALL PROVIDE THE SEDIMENTATION AND EROSION CONTROL DEVICES SHOWN HERE IN ADDITION TO WHATEVER MEASURES MAY BE NECESSARY TO PREVENT SEDIMENT FROM BEING TRANSPORTED OFF SITE.
4. ALL CURB INLETS, END SECTIONS AND OTHER SIMILAR DRAINAGE INLET STRUCTURES SHALL BE PROTECTED FROM SILTATION BY STAKED BALES AND OTHER FILTER FABRIC AS APPROVED BY THE ENGINEER.
5. CONTRACTOR SHALL MAINTAIN AND BE RESPONSIBLE FOR THE INTEND SET FORTH IN THE STORM WATER POLLUTION PREVENTION PLAN.



HANDICAPED PARKING DETAIL (TYP)
NTSC



GENERAL TREE PLANTING
NTSC

BARE ROOT SHRUB PLANTING
NTSC

REQUIRED PLANT PIT DIAMETER	
ROOT SPREAD / ROOT BALL DIAMETER	PLANT PIT DIAMETER
UNDER 2'-0"	3X THE ROOT SPREAD OR ROOT BALL DIAMETER
FROM 2'-0" TO 4'-0"	2.5X THE ROOT SPREAD OR ROOT BALL DIAMETER
OVER 4'-0"	2X THE ROOT SPREAD OR ROOT BALL DIAMETER

NOTES:

1. PLANTING BALL - ON B&B MATERIAL, BURLAP AND WIRE BASKET OR OTHER CONTAINER SHALL BE REMOVED FROM THE UPPER HALF OF THE ROOT BALL AND DISPOSED OF.
2. HEIGHT OF PLANTING SAUCER SHALL BE 3".
3. MULCH SHALL BE A MAXIMUM OF 3" DEEP AND TAPERED DOWN TO LEAVE THE ROOT FLARE EXPOSED. WHEN PLANTING ON SLOPES, DOWNHILL SIDE MUST BE STABILIZED APPROPRIATELY OR SEEDING ON DOWNHILL SIDE MAY BE SPECIFIED.
4. MATERIALS FOR PROTECTION OF PLANTS SHALL BE A COMMERCIALLY AVAILABLE PRODUCT OR SYSTEM FOR SUPPORTING OF TREES.
5. ALL TAGS, LABELS, ETC. SHALL BE REMOVED FROM THE PLANTS.
6. THIS DETAIL SHOWS ONE ABOVE GROUND TREE SUPPORT METHOD. ANY OTHER METHOD MUST USE COMMERCIALLY AVAILABLE PRODUCTS INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
7. THE ROOT FLARE SHALL BE VISIBLE AND LEVEL WITH SURROUNDING SOIL.

ENGINEER:
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Seal

Revisions / Issues

No.	Description	Date

Client Name
2855 Clinton Street Inc.
1420 Union Rd.
West Seneca NY 14224

Project Name
1420 Union Road Beauty Salon Parking Area Expansion

Sheet Name
Details

Project number	30.4
Date	5 MAY 2022
Designed by	CA/TZ
Drawn by	TZ
Checked by	CA

C-102

Scale As Noted

TZ

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	

Advanced Drainage Systems, Inc.

SiteAssist® FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR APP

1420 UNION ROAD

WEST SENECA, NY

SC-310 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-310.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM

1. STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

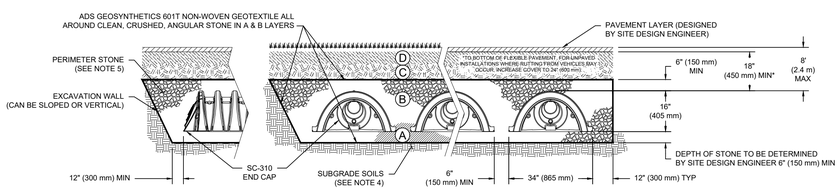
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DESITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

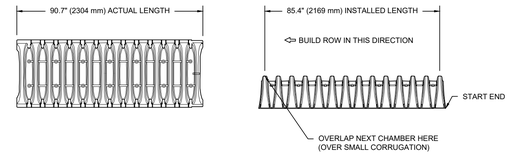


NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

SC-310 TECHNICAL SPECIFICATION

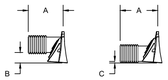
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET	(0.88 m³)
WEIGHT	35.0 lbs.	(16.8 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS



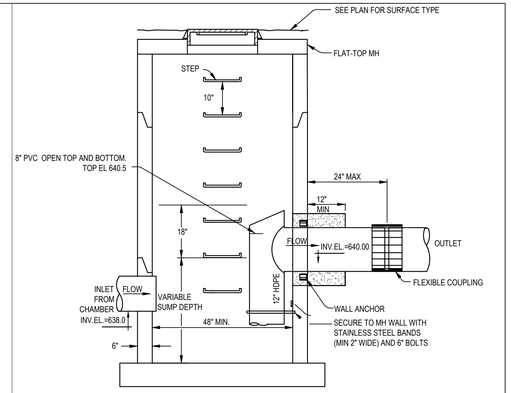
PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE CORED END CAPS END WITH "PC"

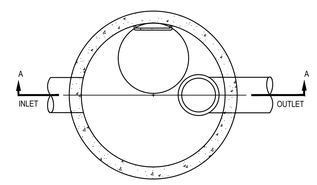
PART #	STUB	A	B	C
SC310EPE06T / SC310EPE06TPC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	---
SC310EPE06B / SC310EPE06BPC			---	0.5" (13 mm)
SC310EPE08T / SC310EPE08TPC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	---
SC310EPE08B / SC310EPE08BPC			---	0.6" (15 mm)
SC310EPE10T / SC310EPE10TPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	---
SC310EPE10B / SC310EPE10BPC			---	0.7" (18 mm)
SC310ECEZ*	12" (300 mm)	13.5" (343 mm)	---	0.9" (23 mm)

ALL STUBS, EXCEPT FOR THE SC310ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310ECEZ THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL





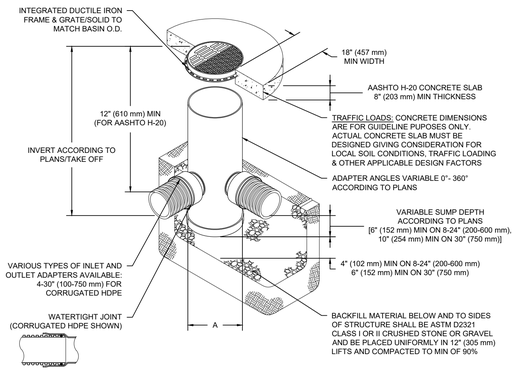
PLAN

SPILL CONTROL MANHOLE

NTSC

NYLOPLAST DRAIN BASIN

NTS



NOTES

1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
6. TO ORDER CALL: **800-821-6710**

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

WARNING
UNAUTHORIZED ALTERATION OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW

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Seal

Revisions / Issues

No.	Description	Date

Client Name

2855 Clinton Street Inc.
1420 Union Rd.
West Seneca NY 14224

Project Name

1420 Union Road Beauty Salon Parking Area Expansion

Sheet Name

Underground Detantion

Project number	30.4
Date	5 MAY 2022
Designed by	CA/TZ
Drawn by	TZ
Checked by	CA

C-103

Scale: As Noted

TZ