Carmina · Wood · Morris DPC

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Architecture Engineering Interior Design

ENGINEER'S REPORT

for

Proposed Laundromat

1450 Ridge Road
Town of West Seneca, Erie County, New York

Prepared for

Jesco Industries

P.O. Box 1003
Buffalo, NY 14224

Prepared by

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February 2021

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Section 1 - Location & Description

This project is a development of a 0.2 acre site located at 1450 Ridge Road in the Town of West Seneca. Proposed is the construction of a single story, 1,066 sf laundromat. The site is currently vacant (crushed stone and asphalt) and was previously used as contractor's equipment storage area. The existing driveway onto Hilbert Avenue will be upgraded and reused.

Section 2 - Water Service

A new 2" type "k" copper domestic service will be tapped off the existing ECWA water main along Ridge Road. Within the utility room, a 2" Watts LF009 RPZ & 2" meter (by ECWA) will be installed on the domestic service. Heat & light for testing will be provided in the area of the meter & RPZ to prevent freezing. Drainage due to testing or failure will be to the exterior through a drain. The owner will be responsible for keeping the drainage ports clear of snow and debris. The drain will exit 12" above grade & drainage will be via gravity away from the building. There are no existing water services to this site, and therefor none to be killed/abandoned per ECWA requirements.

Domestic Summary:

Peak Operating Demand:	4.5 gpm
Water Main:	ECWA main on Ridge Road
Static Pressure:	80 psi (estimated)
Friction Loss:	0.05 psi
Loss through meter/RPZ:	13.0 psi
Elevation Loss:	0.0 psi
Pressure after RPZ & Meter:	66.9 psi

Repairs to all devices will be made during off hours, dual backflow preventers are not required. The site is not located in a 100-year flood plain. Disinfection of the water service following installation will be continuous feed, according to AWWA C-651, latest revision.

Section 3 - Sanitary Sewer Service

The proposed sanitary sewer service will connect to the existing Town of West Seneca 10" sanitary sewer located on the town owned property to north side of the site. The proposed service will consist of approximately 65 LF of 6" SDR-35 PVC sanitary sewer lateral at a minimum slope of 2.0%.

Design Parameters

Laundromat: 10 machines x 12 gal/cycle x 15 cycles/day/machine = 1,800 gpd

The hydraulic loading rate is per information provided by the washing machine manufacturer, this information is included in Appendix A along with the water and sewer calculations.

Section 4 - Storm Sewer Service

The proposed onsite storm sewer system consists of a system of swales, yard drains and catch basins which will ultimately discharge to the town of West Seneca system on Hilbert Avenue. The site will sheet drain to a swale located on the north and east sides of the parcel. The front portion of the site which slopes to the northwest will be picked up by a yard drain. The gutter downspouts will connect to the on-site storm system. The above items will connect to the catch basin located in the south portion of the driveway and will be connected to the Hilbert Avenue system by an 8" HDPE pipe.

The existing site has a mix of asphalt and crushed stone with a CN of 96. The proposed site will be occupied by the building and parking and will incorporate additional greenspace. With the reduction in impervious area (37% reduction), the proposed site will have a CN of 88. Below is a summary of the existing and proposed 1-year through 100-year storm events. As indicated by the summary below, the runoff following redevelopment of the site will result in a reduction in peak runoff rates and therefore storm water detention is not required.

The site is 0.2 acres therefore NYSDEC storm drainage design requirements do not apply and a SPDES permit is not required.

Storm pipes: 10-year storm

RUNOFF SUMMARY – EAST

EVENT	EX. RUNOFF (cfs)	PRO. RUNOFF (cfs)	RESULT (cfs)
1-year	0.48	0.31	-0.17
2-year	0.59	0.41	-0.18
5-year	0.74	0.55	-0.19
10-year	0.87	0.69	-0.18
25-year	1.08	0.91	-0.17
50-year	1.28	1.11	-0.17
100-year	1.50	1.34	-0.16

See Appendix B for the storm calculations.

Appendix A

Sanitary Sewer and Water Demand Calculations

CARMINA WOOD MORRIS, D.P.C.
487 MAIN STREET, SUITE 600
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: Date: 1/30/2021
Project Name: Laundromat
Project Address: 1450 Ridge Rd
Subject: Sanitary Sewage & Domestic Water Demand Calcs
Sheet: 1 of 1

Sanitary Sewage Demand Calculations:

Proposed Laundromat:

10 machines x 12 gallons/cycle x 15 cycles/day/machine = 1800 gpd

note: average water usage per cycle is 12 gallons, 15 estimated cycles per day per machine (avg cycle is 35 mins)

Total Site Sanitary Demand: = 1,800 gpd

Water Demand Calculations (domestic):

Proposed Mixed Use Building:

Sewer Demand = Water Demand = 1,800 gpd

*use 1.8 peaking factor and assume a 12 hour day

1,800 gpm x 1day/12hr x 1hr/60min = 2.50 gpm

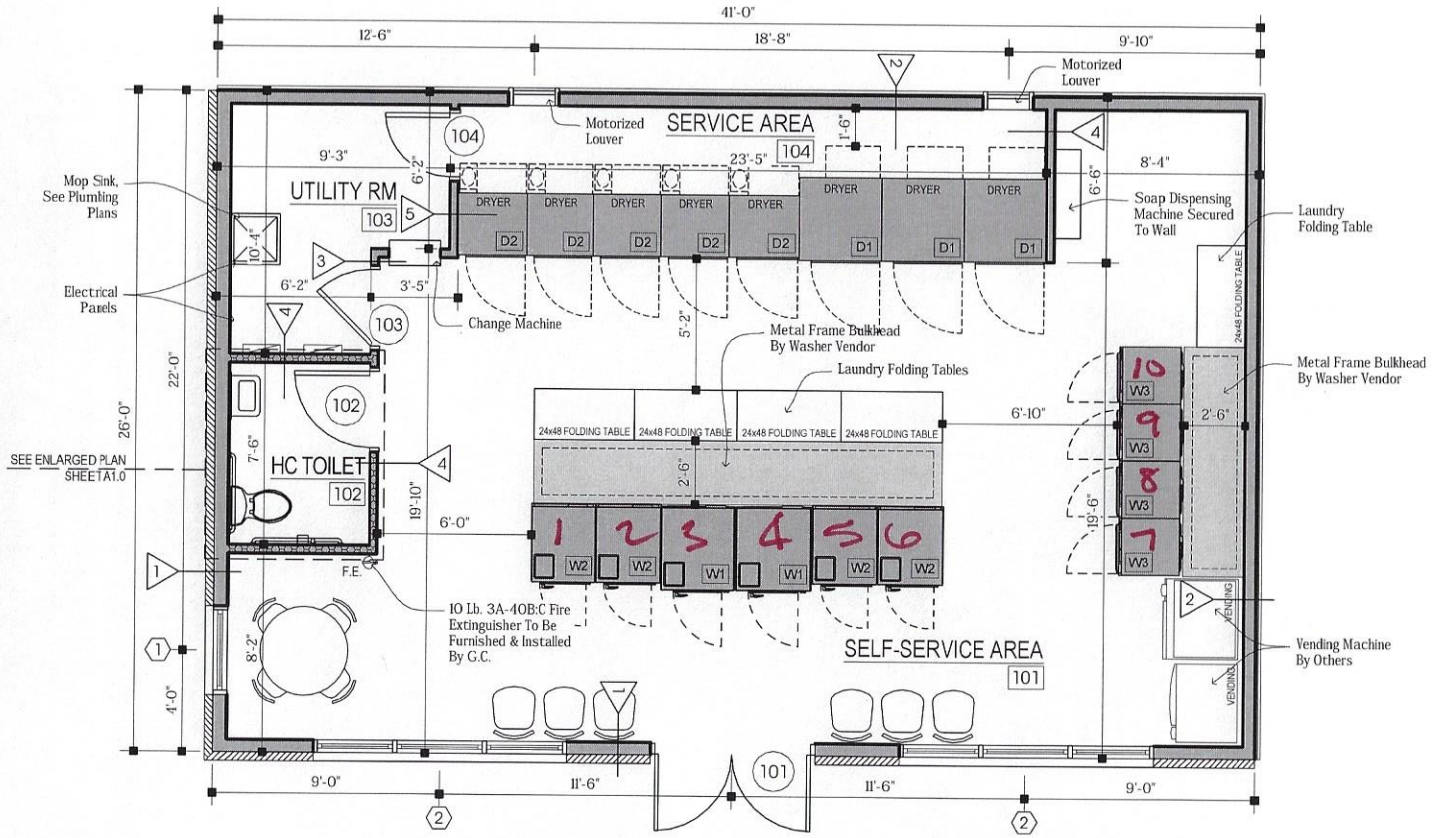
2.50 gpm x 1.8 = 4.50 gpm Q_{peak}

Headlosses:

Q_{peak} = 4.50 gpm
Pipe = 2 inch type "k" copper C = 140
Length = 50 LF (approx. distance from ROW to RPZ)

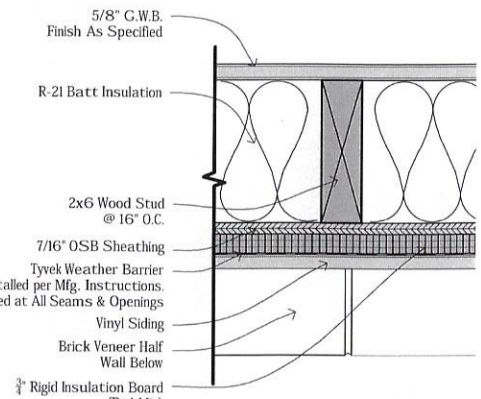
$$H_L = \frac{10.44\, L\, Q^{1.85}}{C^{1.85}\, D^{4.866}} = \frac{10.44(224)(5.84)^{1.85}}{(140)^{1.85}\,(1.5)^{4.866}} = 0.13 \text{ ft} = 0.05 \text{ psi}$$

Δ elev = 0 ft = 0.00 psi
Loss through meter = 1 psi
Loss through RPZ = 12 psi
Total Losses = 13.1 psi
Static Pressure = 80 psi (estimated)
Residual Pressure Following RPZ = 80-13.1 = 66.9 psi (available after rpz & meter)

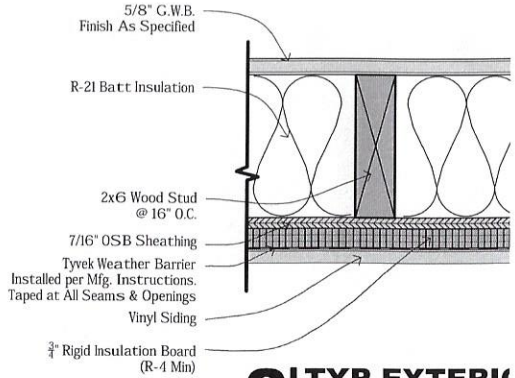


1 FLOOR PLAN
1/4"=1'-0"

WALL TYPES



1 TYP EXTERI
3"=1'-0"



2 TYP EXTERI
3"=1'-0"

DOOR SCHEDULE

No.	Door Opening To	Door Opening From	Type	Opening Size	Mat	Fin	Label	Frame Type	Frame Mat	Frame Fin	Hardware Group	Remarks
101	Exterior	Self Service Area	A	3'-0" x 7'-0"	AL	PF		1	AL	PF	1	
102	HC Toilet	Self Service Area	B	3'-0" x 7'-0"	WD	PT		2	HM	PT	2	

Huebsch

VENDED FRONT LOAD WASHER

Leading-edge. That's what Huebsch® stands for. We continuously develop and manufacture laundry equipment that is ahead of the game—like new front load washers with our leading Galaxy™ 600 controls, featuring advanced cycle modifiers to maximize your revenue. These machines offer a 20% larger capacity, and they're more powerful than ever. Our engineers push them to the limit using our 5-step development process to ensure maximum commercial performance and reliability. They're equipped with innovation that delivers ultimate efficiency, lowering your utility bills and making more money for you over the lifetime of your equipment. For customers, this game-changing equipment is designed to provide a laundry experience that is second to none.

CUTTING-EDGE BALANCE SENSING SYSTEM

An updated suspension and new sensing technologies powerfully combine to redistribute loads and maintain cycle times—resulting in less utility costs, shorter wait times and increased turns through your store.

INCREDIBLE 440 G-FORCE

Increased spin speed exerts high G-Force to maximize moisture removal and lower drying times, getting customers in and out of your store faster and ensuring they leave satisfied.

20% LARGER CAPACITY

Increased capacity means bigger loads, which allow for higher vend pricing. In addition, improved water and energy efficiencies lower utility bills and keep more money in your pocket.

10-DEGREE TILTED CONTROL PANEL

Provides improved control visibility and ease of use for the utmost user experience.

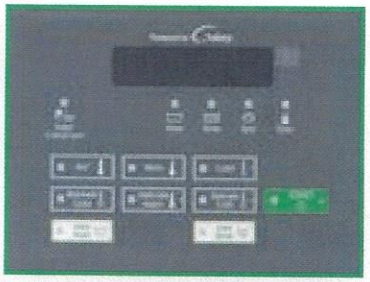
INNER & OUTER STAINLESS STEEL TUBS

Built for virtually indestructible durability.

UNMATCHED DURABILITY

Commercial-grade quality that will deliver reliable, efficient operation load after load. Built with premium materials and tested to meet the demands of the harshest environments, the entire machine receives Huebsch's standard three-year warranty.*

GALAXY™ 600 CONTROLS



Easy-to-use Galaxy 600 controls offer intuitive operation and simple programming throughout your store with revenue-boosting options such as cycle modifiers (extra wash, extra rinse), multi-level vend, time-of-day pricing, 30 programmable water levels and 24 customizable cycle selections.

visit huebsch.com

*Parts only, labor not included. See Huebsch Warranty Bond for specifics.

VENDED FRONT LOAD WASHER

Specifications	Front Control			Rear Control
Galaxy™ 600 Controls Slate - White	Models HFNKCASP113TW01 HFNKDASP113CW01 HFNKXASP113CW01	HFNKYASP113CW01 HFNKCASG113TW01 HFNKDASG113CW01	HFNKXASG113CW01 HFNKYASG113CW01	
Galaxy 600 Controls Slate - Stainless Steel	Models HFNKCASP113TN01 HFNKDASP113CN01 HFNKXASP113CN01	HFNKYASP113CN01 HFNKCASG113TN01 HFNKDASG113CN01	HFNKXASG113CN01 HFNKYASG113CN01	
Galaxy 600 Controls Cityscape - Stainless Steel	Models HFNKCASP113TN31 HFNKDASP113CN31 HFNKXASP113CN31	HFNKYASP113CN31 HFNKCASG113TN31 HFNKDASG113CN31	HFNKXASG113CN31 HFNKYASG113CN31	
Galaxy 600 Controls Citron - Stainless Steel	Models HFNKCASP113TN32 HFNKDASP113CN32 HFNKXASP113CN32	HFNKYASP113CN32 HFNKCASG113TN32 HFNKDASG113CN32	HFNKXASG113CN32 HFNKYASG113CN32	
MDC Controls	Models HFNBCASP113TW01 HFNBCASG113TW01	HFNBYASP113CW01 HFNBYASG113CW01 HFNBDASP113CW01 HFNBDASG113CW01	HFNBEASP113CW01 HFNBXASP113CW01	Models HFNBCRSP113TW01 HFNBYRSP113CW01 HFNBDRSP113CW01 HFNBERSP113CW01
Coin Slide Controls				Models HFNSXRSP113CW01
Capacity - lb (kg)	21.5 (9.5)			21.5 (9.5)
Cylinder Volume - cu. ft. (liters)	3.42 (96.8)			3.42 (96.8)
Width - in (mm)	26 7/8 (683)			26 7/8 (683)
Depth - in (mm)	27 3/4 (704)			27 3/4 (704)
Height - in (mm)	44 3/8 (1126)			43 (1092)
Maximum Spin Speed - G-Force (RPM)	440 (1200)			440 (1200)
Motor Size - HP (kw)	Variable Speed Induction 0.9 (0.67)			Variable Speed Induction 0.9 (0.67)
Water Consumption per Cycle* - g (l)	11.7 (44.3)			11.7 (44.3)
WF (Water Factor)	3.8			3.8
MEF (Modified Energy Factor)	2.98			2.98
Available Water Temperatures	3			3
Available Cycles*	Hot, Warm, Cold, Blankets, Delicate Warm, Delicate Cold			Normal, Perm Press, Delicate
Water Pressure - PSI (Bar)	20-120 (1.4/8.3)			20-120 (1.4/8.3)
Cycle Indicator Lights	Yes			Yes
Cylinder Finish	Stainless Steel			Stainless Steel
Available Colors	White, Stainless Steel			White
Door Type (Solid/Window)	Window			Window
Available Electrical Requirements - (Voltage/Hz/Ph)	120/60/1 - 15 Amp			120/60/1 - 15 Amp
Net Weight - lb (kg)	270 (122)			253 (115)
Shipping Weight - lb (kg)	290 (132)			273 (124)
Shipping Width - in (mm)	29 (737)			29 (737)
Shipping Depth - in (mm)	32 3/4 (832)			32 3/4 (832)
Shipping Height - in (mm)	45 1/2 (1156)			45 1/2 (1156)
Available Agency Approvals	c UL us			c UL us

* Information shown applies to highest end control available.
Note: Not all options are available for all models. Twelfth digit in model number indicates US or Canadian unit. C=Canada & T=US.
Refer to the price list for the available models and options.
Front control unit is ADA Compliant.

ENERGY STAR® Certified Washer

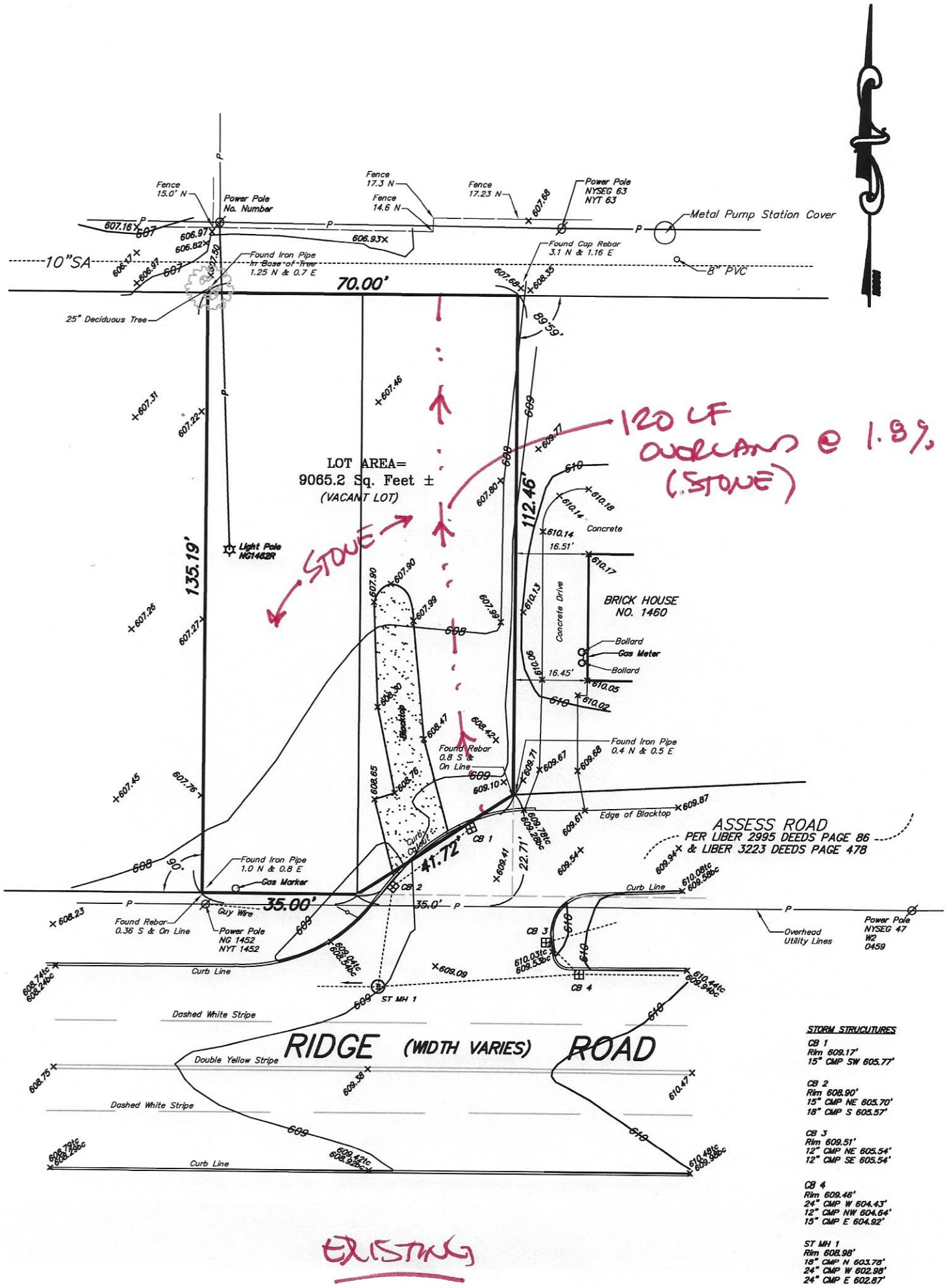
For a complete listing of ENERGY STAR compliant models please visit www.energystar.gov

For the most accurate information, the installation guide should be used for all design and construction purposes. Due to continuous product improvements, design and specifications subject to change without notice. The quality management system of Alliance Laundry Systems' Ripon facility has been registered to ISO 9001:2008.

Appendix B

Storm Sewer System Drainage Calculations

Existing Runoff



STORM STRUCUTURES

CB 1
Rim 609.17'
15" CMP SW 605.77'

CB 2
Rim 608.90'
15" CMP NE 605.70'
18" CMP S 605.57'

CB 3
Rim 609.51'
12" CMP NE 605.54'
12" CMP SE 605.54'

CB 4
Rim 609.46'
24" CMP W 604.43'
12" CMP NW 604.64'
15" CMP E 604.92'

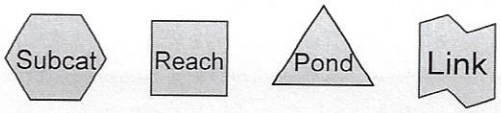
ST MH 1
Rim 608.98'
18" CMP N 603.78'
24" CMP W 602.98'
24" CMP E 602.87'

EXISTING

Events for Subcatchment 1S: Existing

Event	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-Year	0.48	0.024	1.44
2-Year	0.59	0.029	1.77
5-Year	0.74	0.038	2.26
10-Year	0.87	0.045	2.70
25-Year	1.08	0.057	3.41
50-Year	1.28	0.068	4.06
100-Year	**1.50**	**0.080**	**4.81**

Existing



Routing Diagram for Existing-Proposed
Prepared by Hewlett-Packard Company, Printed 1/31/2021

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.010	86	<50% Grass cover, Poor, HSG C (1S)
0.180	96	Gravel surface, HSG C (1S)
0.010	98	Paved parking, HSG C (1S)
0.200	**96**	**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.200	HSG C	1S
0.000	HSG D	
0.000	Other	
0.200		**TOTAL AREA**

Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.010	0.000	0.000	0.010	<50% Grass cover, Poor	1S
0.000	0.000	0.180	0.000	0.000	0.180	Gravel surface	1S
0.000	0.000	0.010	0.000	0.000	0.010	Paved parking	1S
0.000	**0.000**	**0.200**	**0.000**	**0.000**	**0.200**	**TOTAL AREA**	

Summary for Subcatchment 1S: Existing

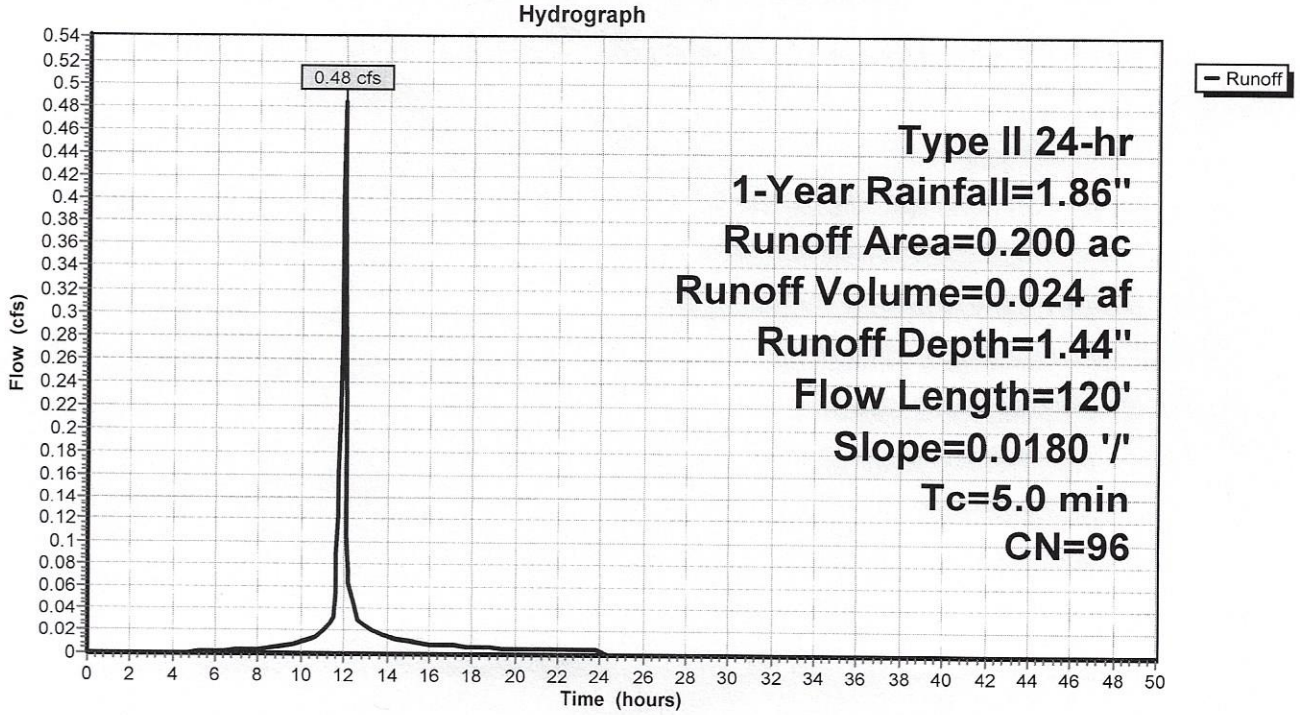
Runoff = 0.48 cfs @ 11.95 hrs, Volume= 0.024 af, Depth= 1.44"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-Year Rainfall=1.86"

Area (ac)	CN	Description
0.180	96	Gravel surface, HSG C
0.010	86	<50% Grass cover, Poor, HSG C
0.010	98	Paved parking, HSG C
0.200	96	Weighted Average
0.190		95.00% Pervious Area
0.010		5.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0180	1.17		**Sheet Flow, stone** Smooth surfaces n= 0.011 P2= 2.50"
0.2	20	0.0180	2.16		**Shallow Concentrated Flow, stone** Unpaved Kv= 16.1 fps
1.6	120	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing



Summary for Subcatchment 1S: Existing

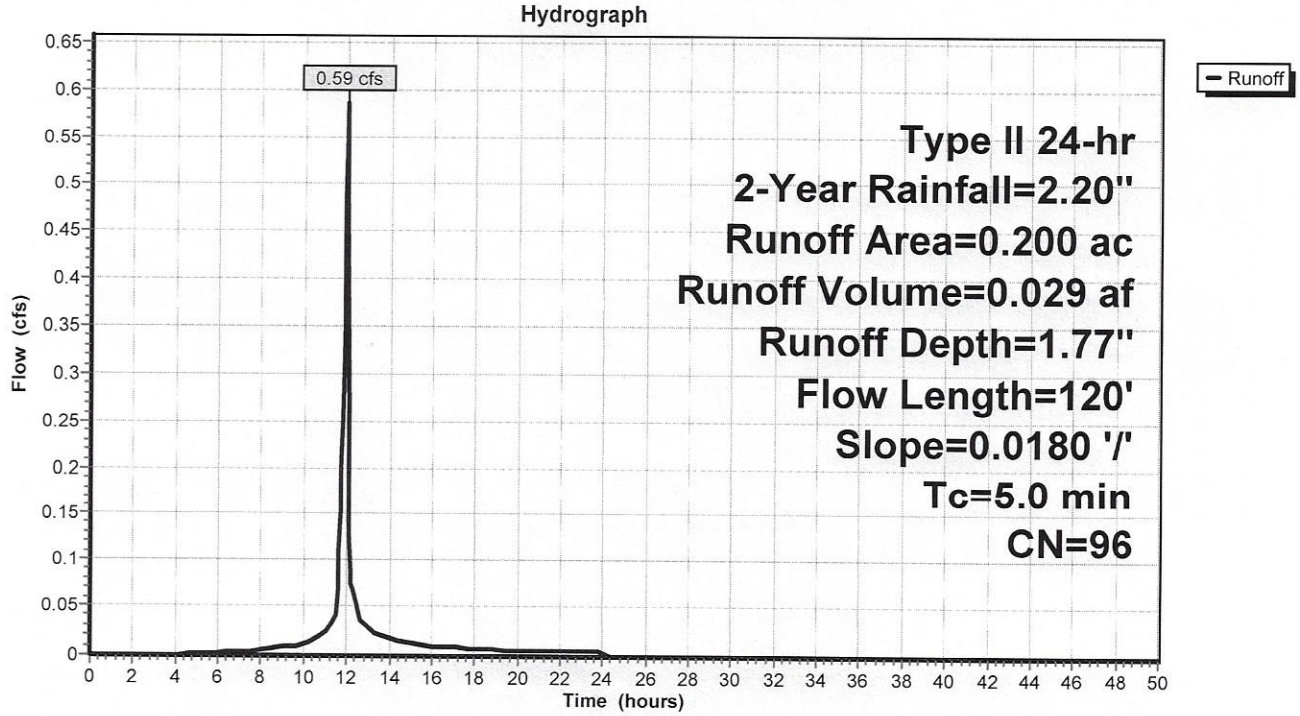
Runoff = 0.59 cfs @ 11.95 hrs, Volume= 0.029 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-Year Rainfall=2.20"

Area (ac)	CN	Description
0.180	96	Gravel surface, HSG C
0.010	86	<50% Grass cover, Poor, HSG C
0.010	98	Paved parking, HSG C
0.200	96	Weighted Average
0.190		95.00% Pervious Area
0.010		5.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0180	1.17		**Sheet Flow, stone** Smooth surfaces n= 0.011 P2= 2.50"
0.2	20	0.0180	2.16		**Shallow Concentrated Flow, stone** Unpaved Kv= 16.1 fps
1.6	120	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing



Summary for Subcatchment 1S: Existing

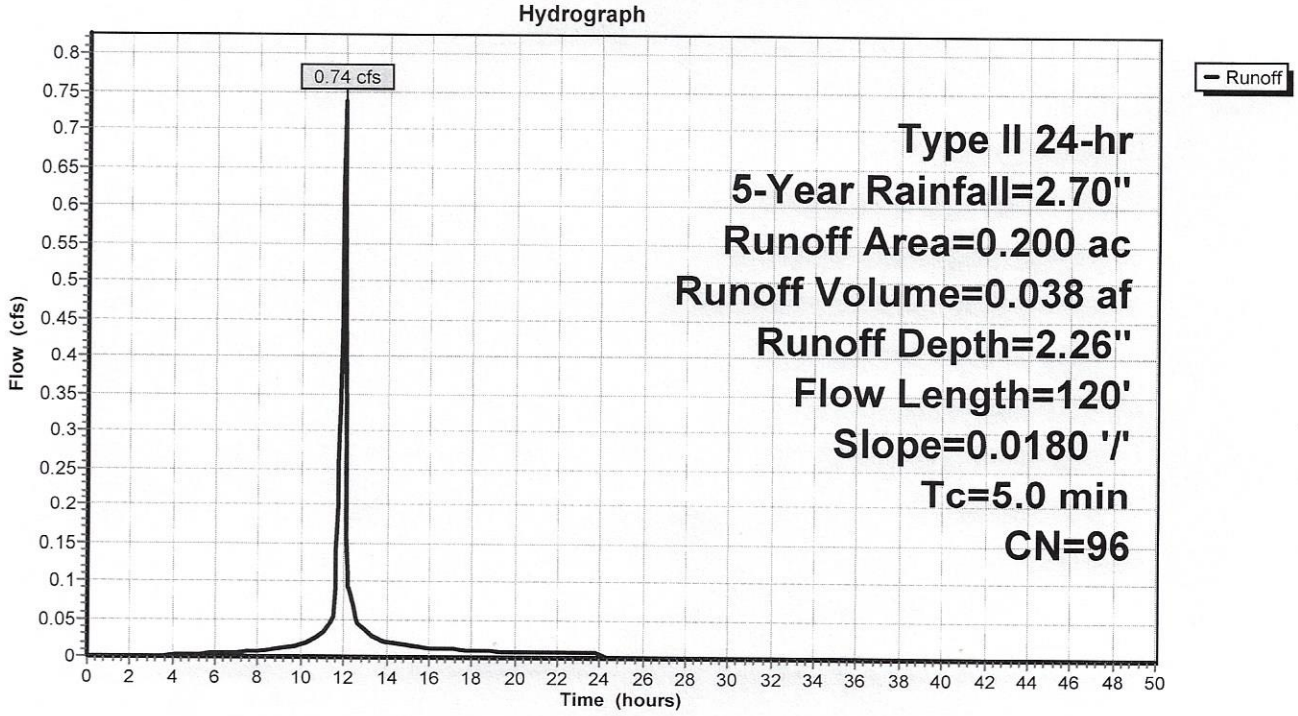
Runoff = 0.74 cfs @ 11.95 hrs, Volume= 0.038 af, Depth= 2.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 5-Year Rainfall=2.70"

Area (ac)	CN	Description
0.180	96	Gravel surface, HSG C
0.010	86	<50% Grass cover, Poor, HSG C
0.010	98	Paved parking, HSG C
0.200	96	Weighted Average
0.190		95.00% Pervious Area
0.010		5.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0180	1.17		**Sheet Flow, stone** Smooth surfaces n= 0.011 P2= 2.50"
0.2	20	0.0180	2.16		**Shallow Concentrated Flow, stone** Unpaved Kv= 16.1 fps
1.6	120	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing



Summary for Subcatchment 1S: Existing

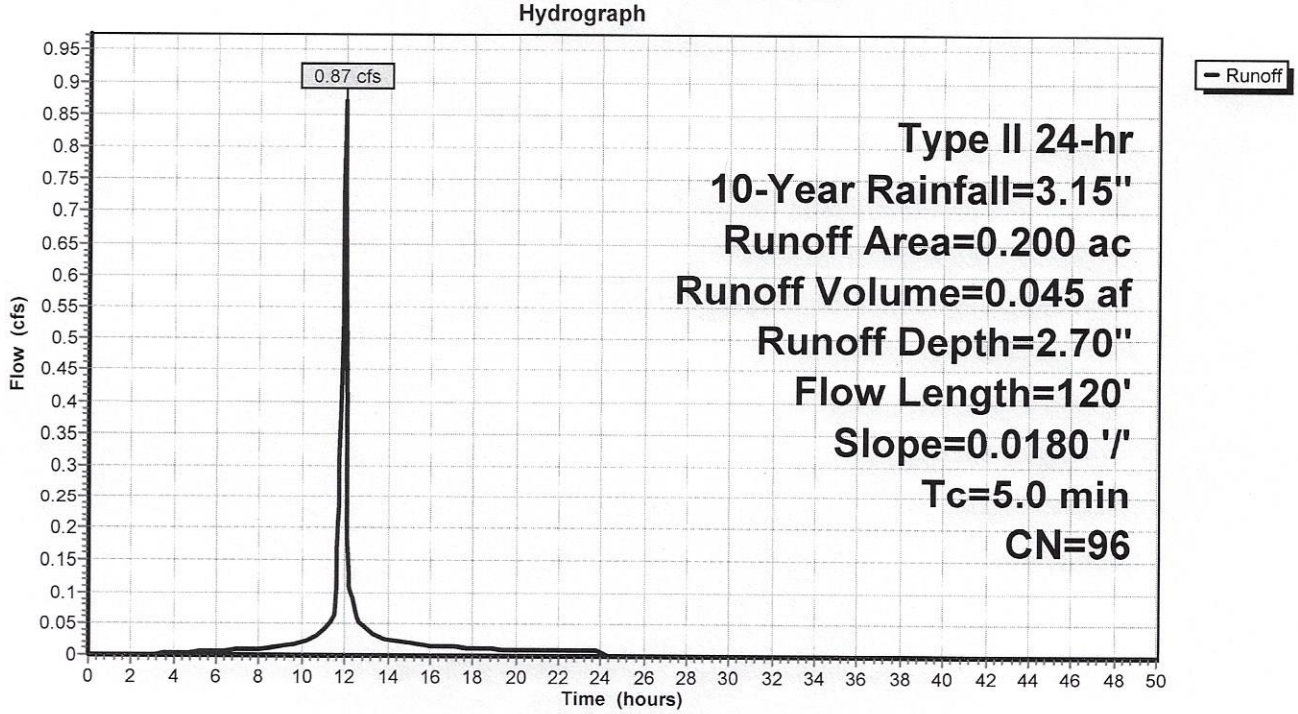
Runoff = 0.87 cfs @ 11.95 hrs, Volume= 0.045 af, Depth= 2.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-Year Rainfall=3.15"

Area (ac)	CN	Description
0.180	96	Gravel surface, HSG C
0.010	86	<50% Grass cover, Poor, HSG C
0.010	98	Paved parking, HSG C
0.200	96	Weighted Average
0.190		95.00% Pervious Area
0.010		5.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0180	1.17		**Sheet Flow, stone** Smooth surfaces n= 0.011 P2= 2.50"
0.2	20	0.0180	2.16		**Shallow Concentrated Flow, stone** Unpaved Kv= 16.1 fps
1.6	120	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing



Summary for Subcatchment 1S: Existing

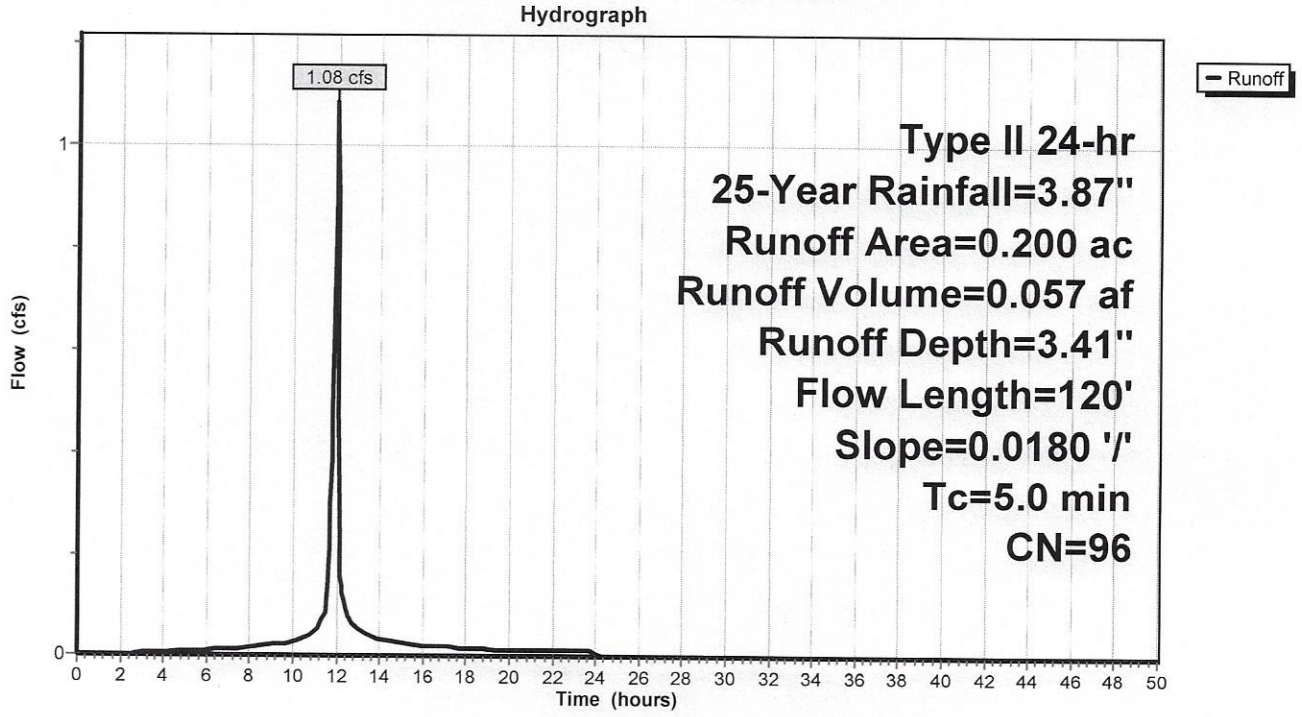
Runoff = 1.08 cfs @ 11.95 hrs, Volume= 0.057 af, Depth= 3.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 25-Year Rainfall=3.87"

Area (ac)	CN	Description
0.180	96	Gravel surface, HSG C
0.010	86	<50% Grass cover, Poor, HSG C
0.010	98	Paved parking, HSG C
0.200	96	Weighted Average
0.190		95.00% Pervious Area
0.010		5.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0180	1.17		**Sheet Flow, stone** Smooth surfaces n= 0.011 P2= 2.50"
0.2	20	0.0180	2.16		**Shallow Concentrated Flow, stone** Unpaved Kv= 16.1 fps
1.6	120	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing



Summary for Subcatchment 1S: Existing

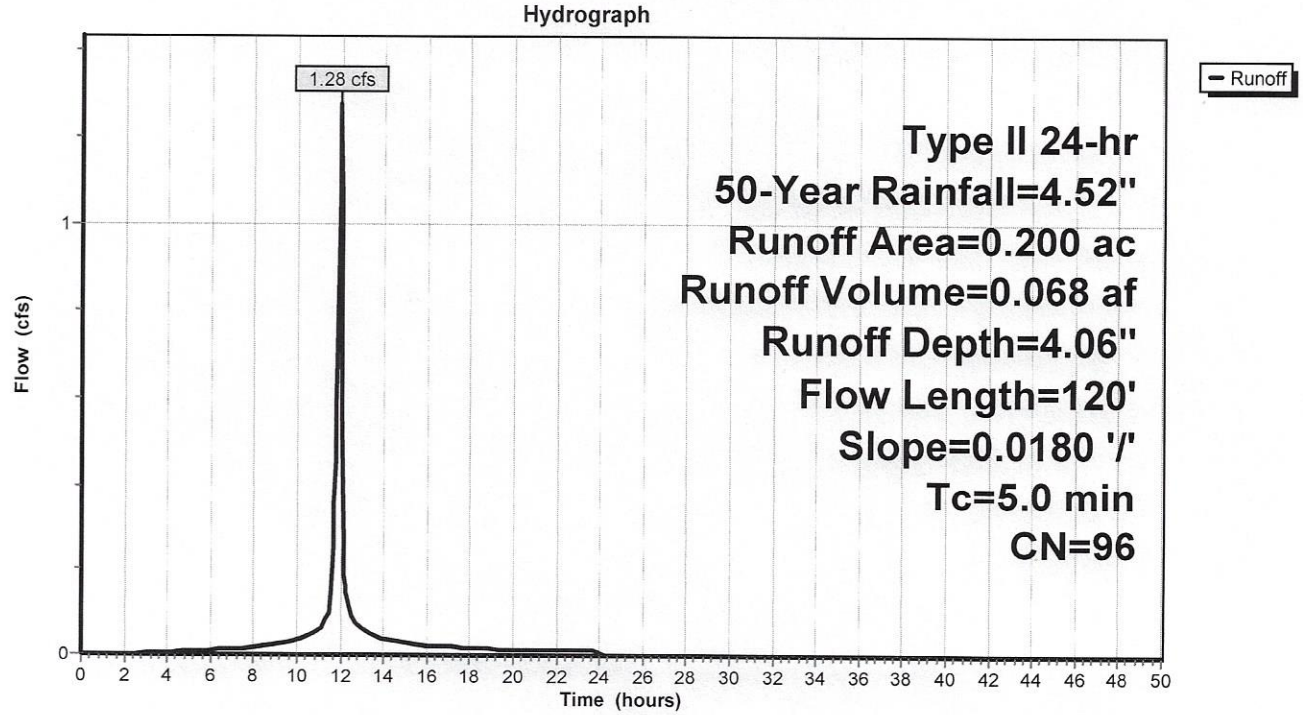
Runoff = 1.28 cfs @ 11.95 hrs, Volume= 0.068 af, Depth= 4.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 50-Year Rainfall=4.52"

Area (ac)	CN	Description
0.180	96	Gravel surface, HSG C
0.010	86	<50% Grass cover, Poor, HSG C
0.010	98	Paved parking, HSG C
0.200	96	Weighted Average
0.190		95.00% Pervious Area
0.010		5.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0180	1.17		**Sheet Flow, stone** Smooth surfaces n= 0.011 P2= 2.50"
0.2	20	0.0180	2.16		**Shallow Concentrated Flow, stone** Unpaved Kv= 16.1 fps
1.6	120	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing



Summary for Subcatchment 1S: Existing

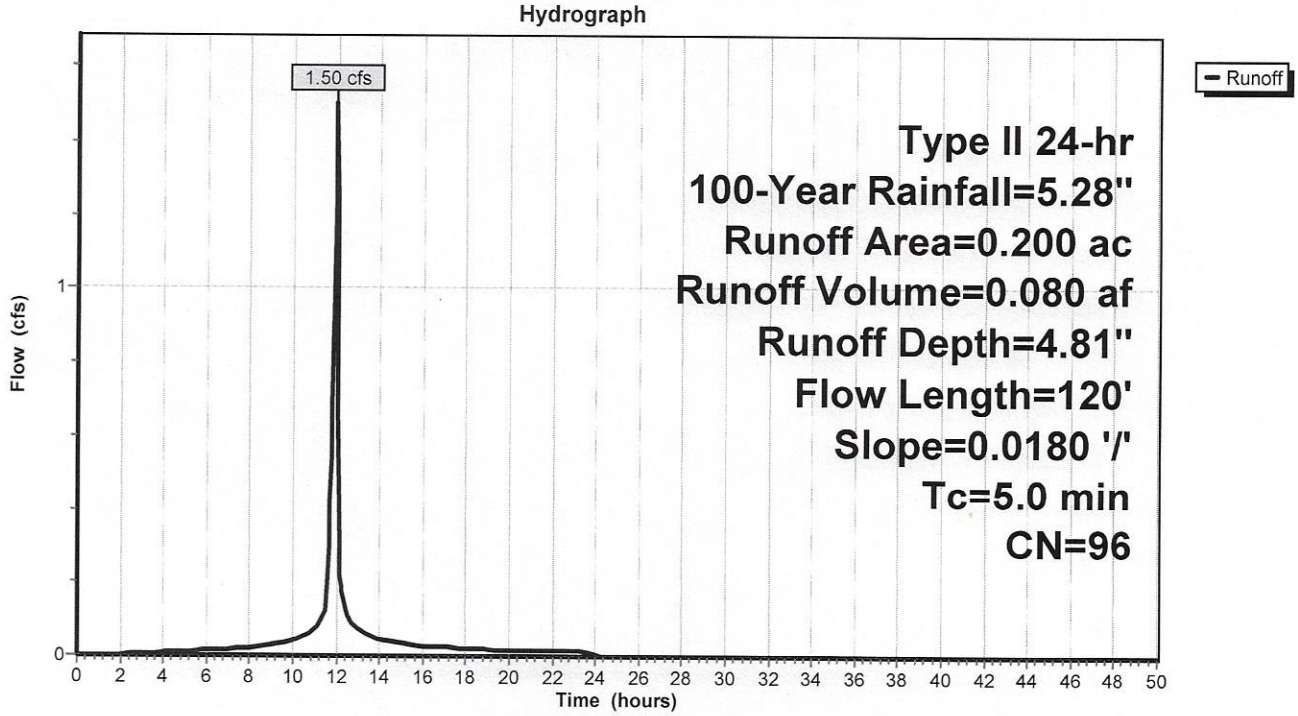
Runoff = 1.50 cfs @ 11.95 hrs, Volume= 0.080 af, Depth= 4.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-Year Rainfall=5.28"

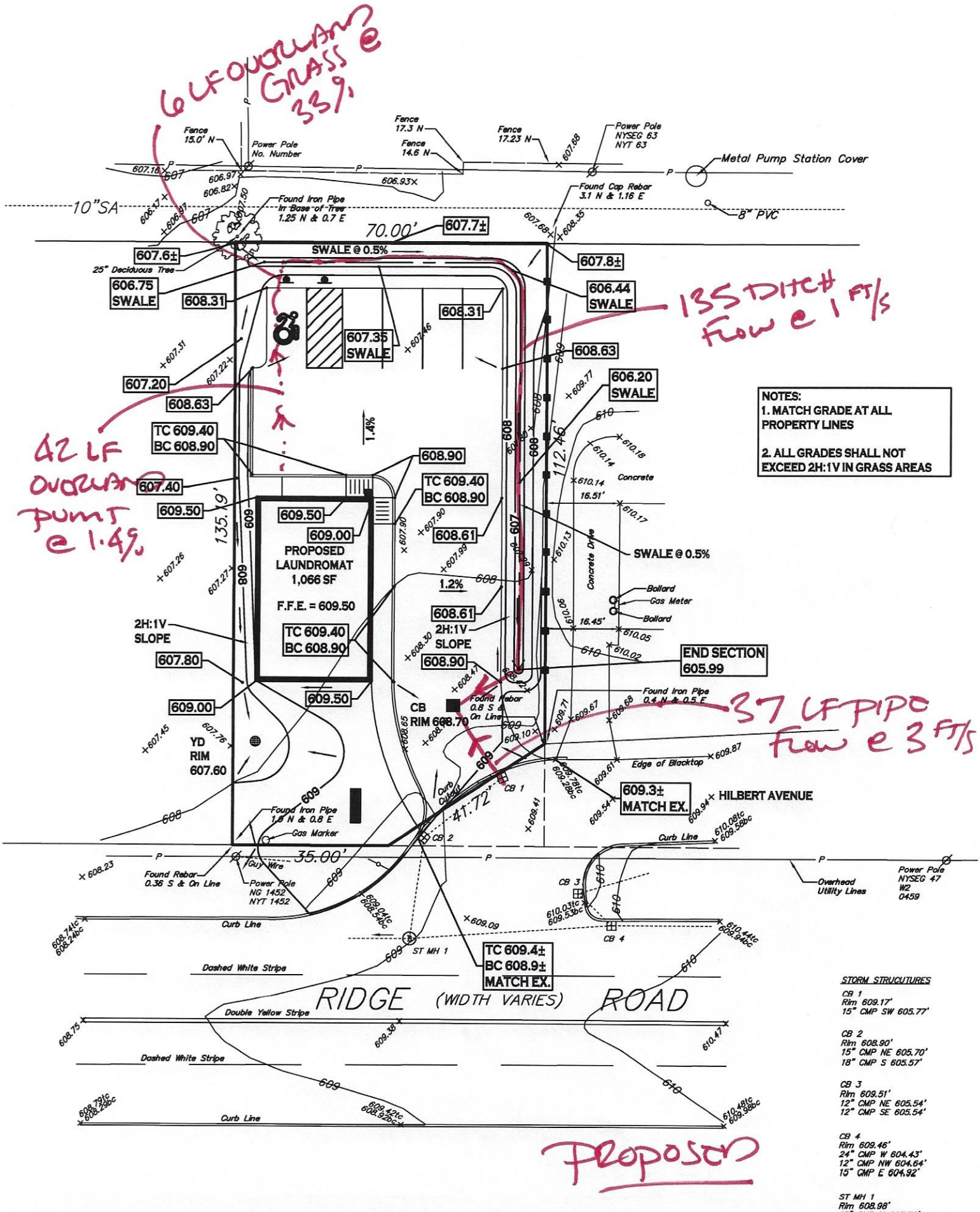
Area (ac)	CN	Description
0.180	96	Gravel surface, HSG C
0.010	86	<50% Grass cover, Poor, HSG C
0.010	98	Paved parking, HSG C
0.200	96	Weighted Average
0.190		95.00% Pervious Area
0.010		5.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0180	1.17		**Sheet Flow, stone** Smooth surfaces n= 0.011 P2= 2.50"
0.2	20	0.0180	2.16		**Shallow Concentrated Flow, stone** Unpaved Kv= 16.1 fps
1.6	120	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing



Proposed Runoff



NOTES:
1. MATCH GRADE AT ALL PROPERTY LINES

2. ALL GRADES SHALL NOT EXCEED 2H:1V IN GRASS AREAS

STORM STRUCUTURES

CB 1
Rim 609.17'
15" CMP SW 605.77'

CB 2
Rim 608.90'
15" CMP NE 605.70'
18" CMP S 605.57'

CB 3
Rim 609.51'
12" CMP NE 605.54'
12" CMP SE 605.54'

CB 4
Rim 609.46'
24" CMP W 604.43'
12" CMP NW 604.64'
15" CMP E 604.92'

ST MH 1
Rim 608.98'
18" CMP N 603.78'
24" CMP W 602.98'
24" CMP E 602.87'

N

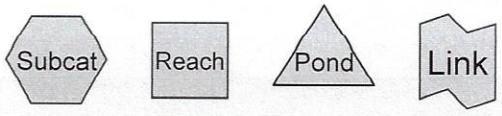
GRADING PLAN

SCALE: 1"=20'

Events for Subcatchment 2S: Proposed

Event	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-Year	0.31	0.014	0.85
2-Year	0.41	0.019	1.13
5-Year	0.55	0.026	1.55
10-Year	0.69	0.033	1.95
25-Year	0.91	0.043	2.61
50-Year	1.11	0.054	3.22
100-Year	**1.34**	**0.066**	**3.94**

Proposed



Routing Diagram for Existing-Proposed
Prepared by Hewlett-Packard Company, Printed 1/31/2021

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.080	74	>75% Grass cover, Good, HSG C (2S)
0.120	98	Paved parking, HSG C (2S)
0.200	**88**	**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.200	HSG C	2S
0.000	HSG D	
0.000	Other	
0.200		**TOTAL AREA**

Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.080	0.000	0.000	0.080	>75% Grass cover, Good	2S
0.000	0.000	0.120	0.000	0.000	0.120	Paved parking	2S
0.000	**0.000**	**0.200**	**0.000**	**0.000**	**0.200**	**TOTAL AREA**	

Summary for Subcatchment 2S: Proposed

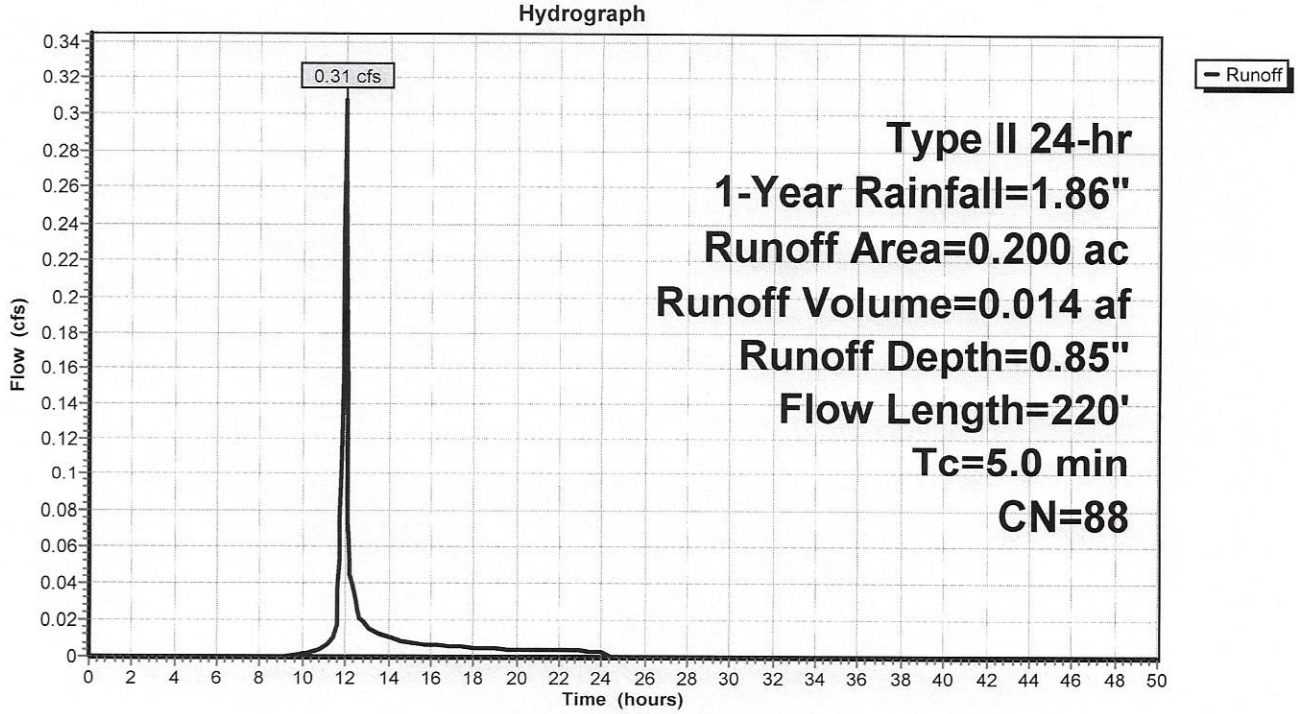
Runoff = 0.31 cfs @ 11.96 hrs, Volume= 0.014 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-Year Rainfall=1.86"

Area (ac)	CN	Description
0.080	74	>75% Grass cover, Good, HSG C
0.120	98	Paved parking, HSG C
0.200	88	Weighted Average
0.080		40.00% Pervious Area
0.120		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	42	0.0140	0.89		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
0.6	6	0.3300	0.18		**Sheet Flow, grass** Grass: Dense n= 0.240 P2= 2.50"
2.2	135		1.00		**Direct Entry, ditch**
0.2	37		3.00		**Direct Entry, pipe flow**
3.9	220	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed



Summary for Subcatchment 2S: Proposed

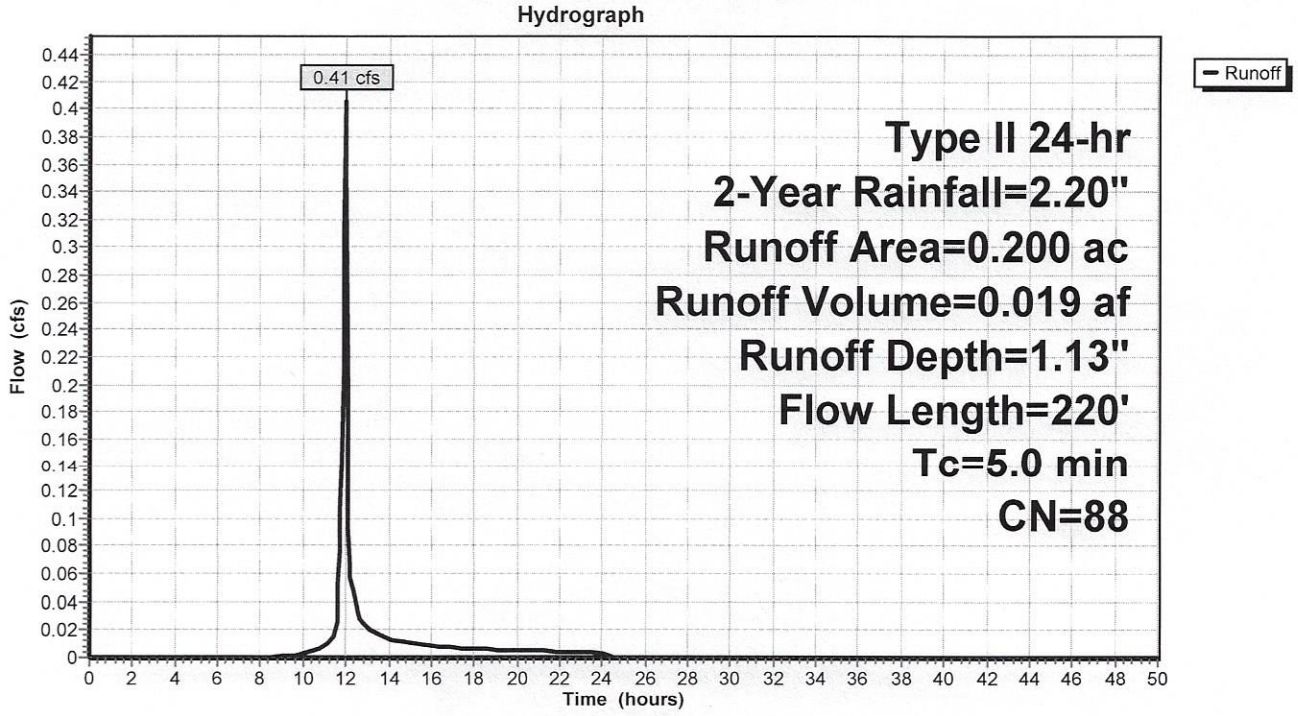
Runoff = 0.41 cfs @ 11.96 hrs, Volume= 0.019 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-Year Rainfall=2.20"

Area (ac)	CN	Description
0.080	74	>75% Grass cover, Good, HSG C
0.120	98	Paved parking, HSG C
0.200	88	Weighted Average
0.080		40.00% Pervious Area
0.120		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	42	0.0140	0.89		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
0.6	6	0.3300	0.18		**Sheet Flow, grass** Grass: Dense n= 0.240 P2= 2.50"
2.2	135		1.00		**Direct Entry, ditch**
0.2	37		3.00		**Direct Entry, pipe flow**
3.9	220	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed



Summary for Subcatchment 2S: Proposed

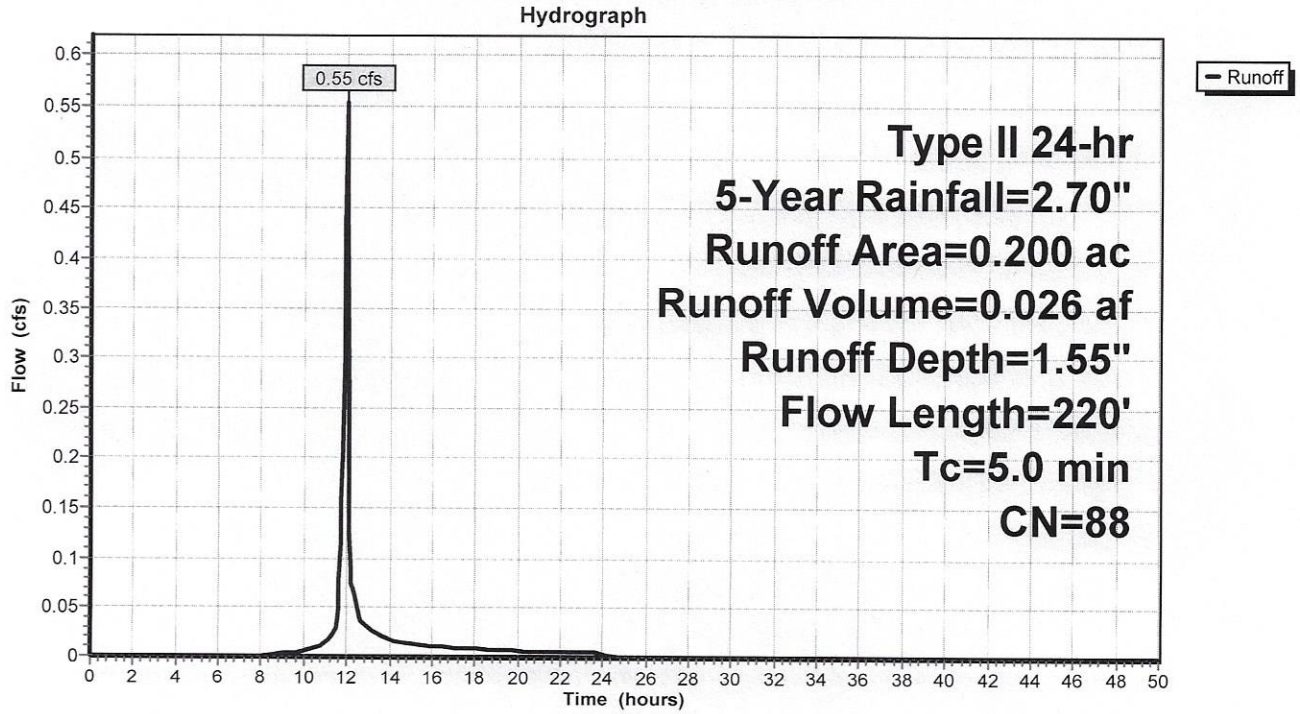
Runoff = 0.55 cfs @ 11.96 hrs, Volume= 0.026 af, Depth= 1.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 5-Year Rainfall=2.70"

Area (ac)	CN	Description
0.080	74	>75% Grass cover, Good, HSG C
0.120	98	Paved parking, HSG C
0.200	88	Weighted Average
0.080		40.00% Pervious Area
0.120		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	42	0.0140	0.89		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
0.6	6	0.3300	0.18		**Sheet Flow, grass** Grass: Dense n= 0.240 P2= 2.50"
2.2	135		1.00		**Direct Entry, ditch**
0.2	37		3.00		**Direct Entry, pipe flow**
3.9	220	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed



Summary for Subcatchment 2S: Proposed

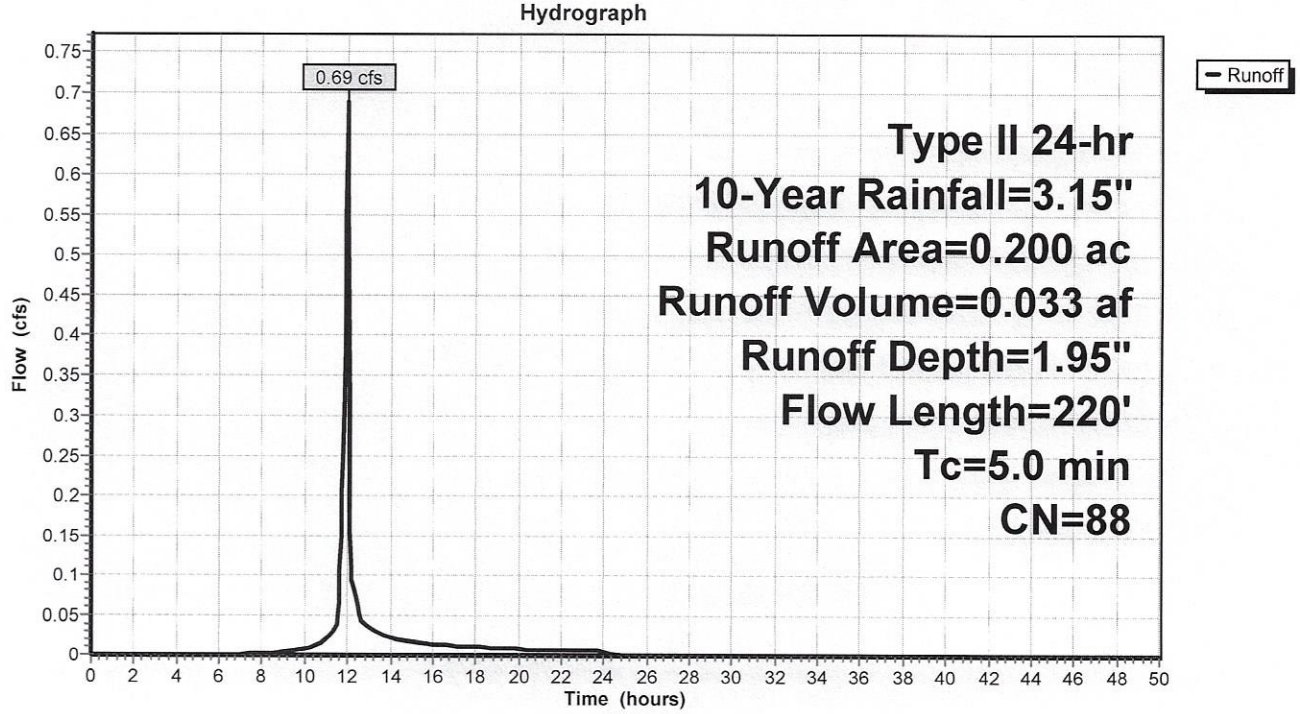
Runoff = 0.69 cfs @ 11.96 hrs, Volume= 0.033 af, Depth= 1.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-Year Rainfall=3.15"

Area (ac)	CN	Description
0.080	74	>75% Grass cover, Good, HSG C
0.120	98	Paved parking, HSG C
0.200	88	Weighted Average
0.080		40.00% Pervious Area
0.120		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	42	0.0140	0.89		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
0.6	6	0.3300	0.18		**Sheet Flow, grass** Grass: Dense n= 0.240 P2= 2.50"
2.2	135		1.00		**Direct Entry, ditch**
0.2	37		3.00		**Direct Entry, pipe flow**
3.9	220	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed



Summary for Subcatchment 2S: Proposed

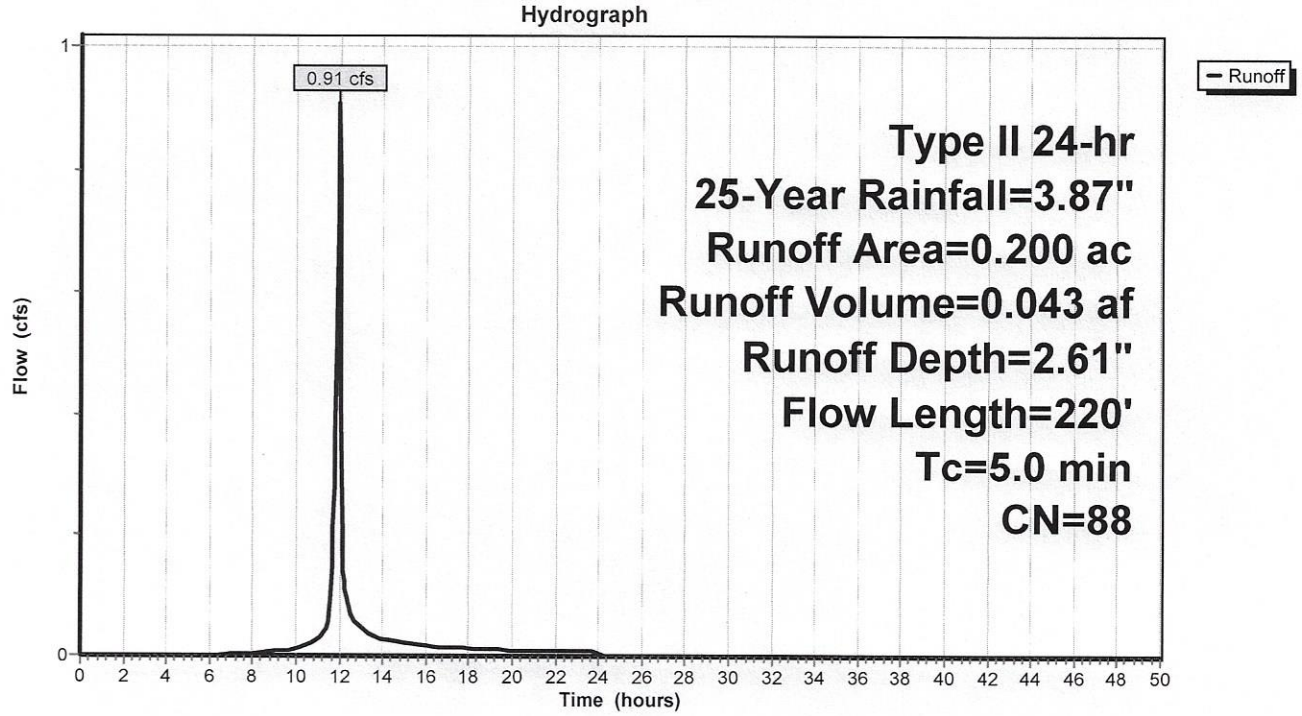
Runoff = 0.91 cfs @ 11.95 hrs, Volume= 0.043 af, Depth= 2.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 25-Year Rainfall=3.87"

Area (ac)	CN	Description
0.080	74	>75% Grass cover, Good, HSG C
0.120	98	Paved parking, HSG C
0.200	88	Weighted Average
0.080		40.00% Pervious Area
0.120		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	42	0.0140	0.89		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
0.6	6	0.3300	0.18		**Sheet Flow, grass** Grass: Dense n= 0.240 P2= 2.50"
2.2	135		1.00		**Direct Entry, ditch**
0.2	37		3.00		**Direct Entry, pipe flow**
3.9	220	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed



Summary for Subcatchment 2S: Proposed

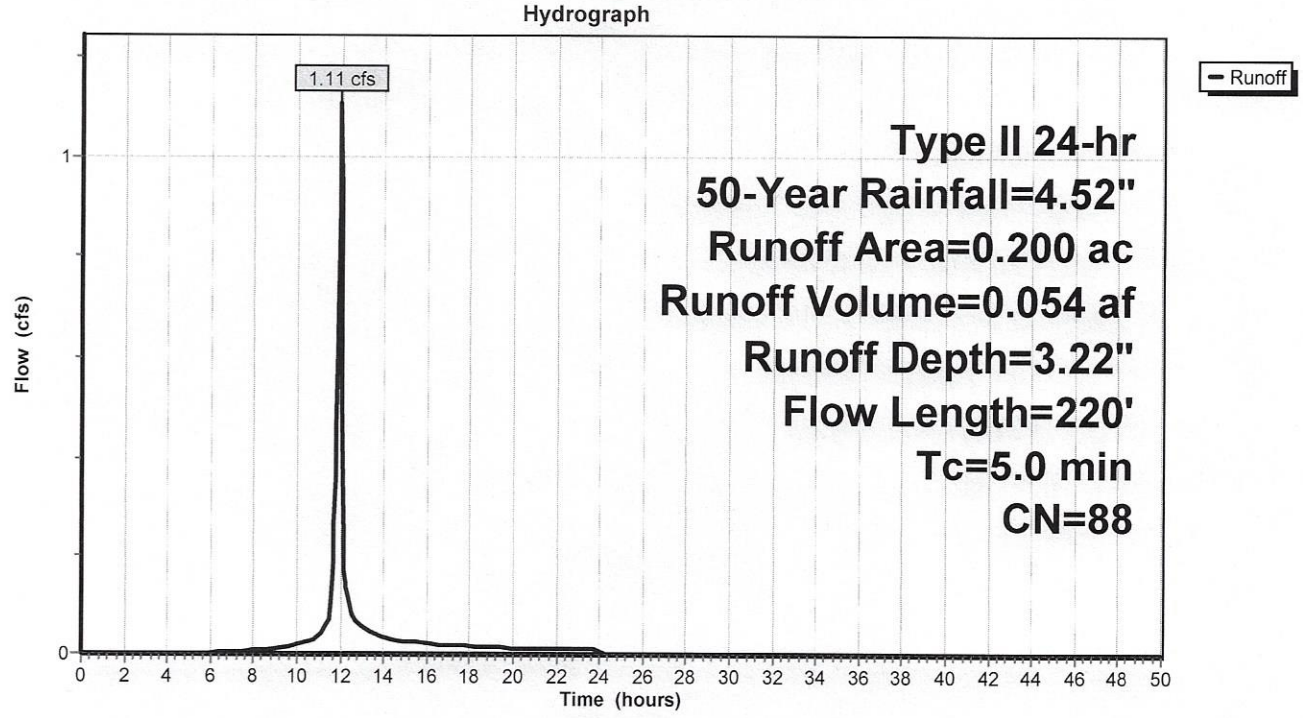
Runoff = 1.11 cfs @ 11.95 hrs, Volume= 0.054 af, Depth= 3.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 50-Year Rainfall=4.52"

Area (ac)	CN	Description
0.080	74	>75% Grass cover, Good, HSG C
0.120	98	Paved parking, HSG C
0.200	88	Weighted Average
0.080		40.00% Pervious Area
0.120		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	42	0.0140	0.89		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
0.6	6	0.3300	0.18		**Sheet Flow, grass** Grass: Dense n= 0.240 P2= 2.50"
2.2	135		1.00		**Direct Entry, ditch**
0.2	37		3.00		**Direct Entry, pipe flow**
3.9	220	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed



Summary for Subcatchment 2S: Proposed

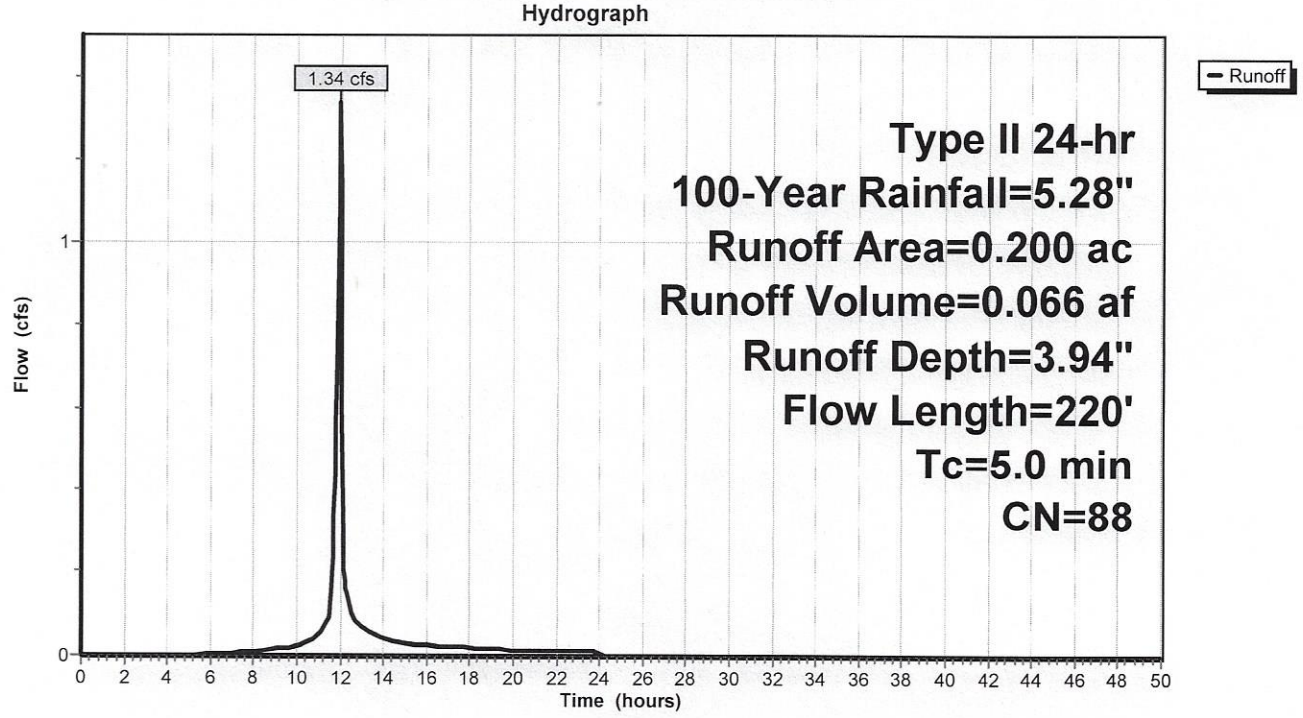
Runoff = 1.34 cfs @ 11.95 hrs, Volume= 0.066 af, Depth= 3.94"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-Year Rainfall=5.28"

Area (ac)	CN	Description
0.080	74	>75% Grass cover, Good, HSG C
0.120	98	Paved parking, HSG C
0.200	88	Weighted Average
0.080		40.00% Pervious Area
0.120		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	42	0.0140	0.89		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
0.6	6	0.3300	0.18		**Sheet Flow, grass** Grass: Dense n= 0.240 P2= 2.50"
2.2	135		1.00		**Direct Entry, ditch**
0.2	37		3.00		**Direct Entry, pipe flow**
3.9	220	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed



Appendix C

Soils Information

Map Scale: 1:241 if printed on A portrait (8.5" x 11") sheet.

N

0 3 7 14 21 Meters

0 10 20 40 60 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 20, Jun 11, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 14, 2019—Jul 27, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
RgA	Rhinebeck silt loam, 0 to 3 percent slopes	C/D	0.2	100.0%
Totals for Area of Interest			**0.2**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

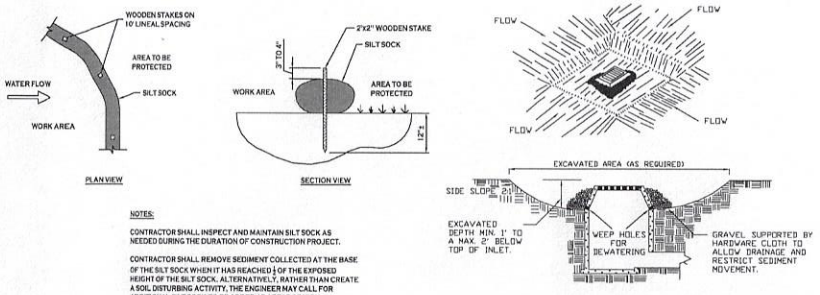
Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Appendix D

Civil Plan Set



NOTES:

CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED ½ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

SILT SOCK DETAIL

N.T.S.

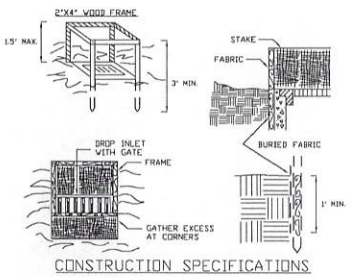
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE



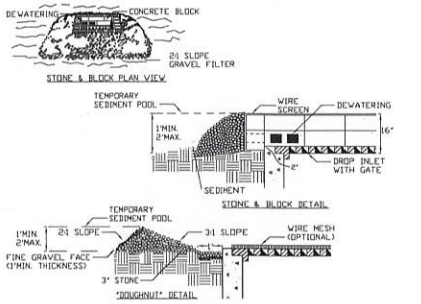
CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 10 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

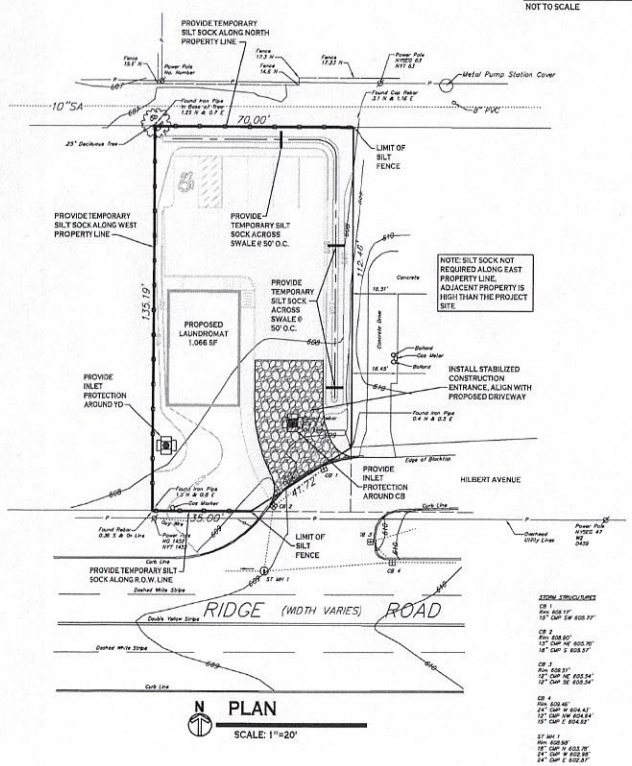
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 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

INLET PROTECTION DETAIL 3

NOT TO SCALE

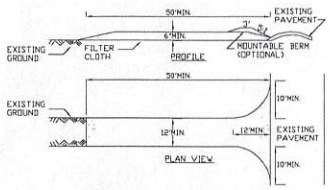
NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN FOLLOWING INSTALLATION OF THE PROPOSED CB'S



N

PLAN

SCALE: 1"=20'



CONSTRUCTION SPECIFICATIONS

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

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

EROSION CONTROL PLAN

THE FOLLOWING EROSION CONTROL PROCEDURE SHALL BE ADHERED TO BY THE CONTRACTOR:

1. INSTALL TEMPORARY EROSION CONTROL DEVICES AS DIRECTED BY THE OWNER AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT FENCE BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
2. THE TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. ALL LOCAL ORDINANCES REGARDING THE SALE OF TOPSOIL MUST BE FOLLOWED. TOPSOIL MAY NOT BE REMOVED WITHOUT A PERMIT.
3. ALL EROSION CONTROL DEVICES SHALL BE REPLACED WHEREVER THEY BECOME CLOGGED OR INOPERABLE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR, AND WATER SPREAD AS NECESSARY AND AS DIRECTED BY THE OWNER IN ORDER TO CONTROL DUST.
6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED AND ROAD SURFACES CLEANED BY THE CONTRACTOR ON A DAILY BASIS.
7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH AND SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE AND AS SOON AS PHYSICALLY POSSIBLE.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES, AND CULVERTS. SILT BUILDUP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE CITY.
9. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION, AS DIRECTED BY THE ENGINEER.
10. INSTALL TEMPORARY SILT SOCK AROUND THE BASE OF STOCKPILES.

NOTES:

1. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THOSE ITEMS TO REMAIN, SUCH AS TREES, PROPERTY CORNER PINS, UTILITY POLES, VALVES, HYDRANTS, CURBS, MANHOLES AND CATCH BASINS.
2. TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED AS DIRECTED BY THE OWNERS FIELD REPRESENTATIVE. MAINTAIN UNTIL VEGETATION IS ESTABLISHED AND PAVEMENT IS INSTALLED.
3. FOR THOSE STRUCTURES TO BE DEMOLISHED, ALL EXISTING UTILITY SERVICES SHALL BE ABANDONED IN ACCORDANCE WITH LOCAL REGULATIONS. ALL METERS SHALL BE RETURNED TO PROPER OWNERS.
4. THE CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES WHERE ACCESSING THE SITE FROM PAVED ROADWAYS.
5. THE CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH NYS M.U.T.C.D. STANDARDS PRIOR TO STARTING WORK.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD MORRIS, D.P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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REVISIONS:

No.	Description	Date

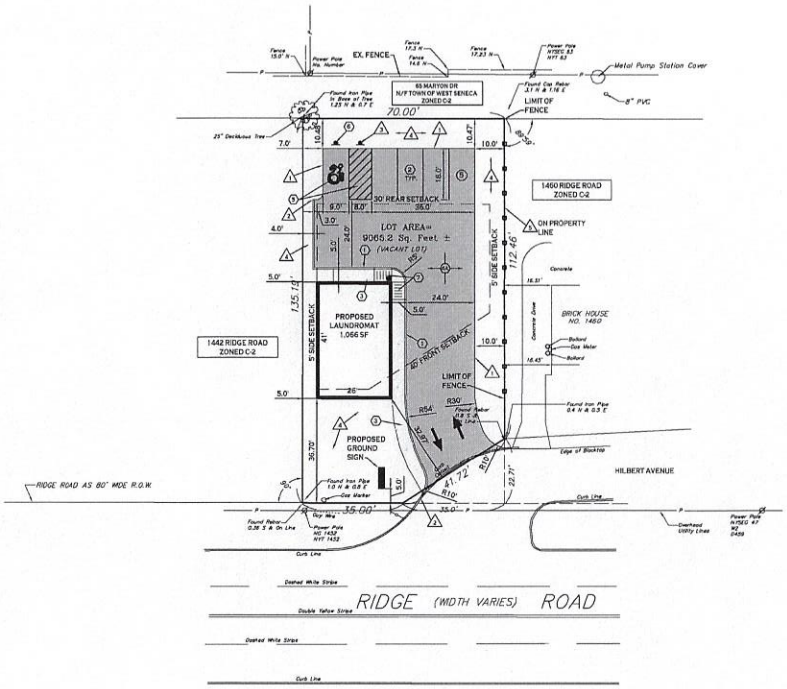
PROJECT NAME:
New Construction
Proposed Laundromat
1450 Ridge Road
West Seneca, New York

Date: 1/30/21
Drawn by: C. Wood
Scale: As Noted

DRAWING NAME:
Erosion & Sediment Control Plan

DRAWING NO.
C-001

Project no.: 20.xxx



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SITE PLAN

SCALE: 1"=20'

SITE DATA		
SITE AREA = 0.21 AC		
ZONED: C-2		
DESCRIPTION: PROPOSED LAUNDROMAT		
SETBACKS - BUILDING	REQUIRED	PROVIDED
FRONT:	40 FT	32.97 FT MIN. *
SIDE/REAR (ABUTTING COMM.):	5 FT / 10 FT	5 FT / N/A
SIDE/REAR (ABUTTING RES.)	10 FT / 30 FT	N/A / XXX FT
SETBACKS - PARKING		
FRONT:	10 FT	> 10 FT
SIDE /REAR (ABUTTING COMM.):	10 FT	4.0 FT MIN. *
SIDE /REAR (ABUTTING RES.)	10 FT	10 FT MIN.
PARKING (STALL SIZE: 9' x 18')		
# OF SPACES - SEE CALCULATION BELOW	3	5
MAX. BUILDING HEIGHT	40 FT MAX.	< 40 FT

* AREA VARIANCE REQUIRED

PARKING CALCULATION:
"LAUNDROMAT"
REQ'D PARKING = 1 SPACE PER 350 GSF
= 1,066 GSF / 350 = 3 SPACES

SITE NOTES:

1. ALL RADII SHALL BE 3'-0" UNLESS OTHERWISE NOTED.
2. ALL DISTURBED AREAS SHALL HAVE 4" MIN. OF TOPSOIL AND SEED. FOR DISTURBED AREAS WITHIN NYSDOT R.O.W. DISTURBED AREAS SHALL BE RESTORED USING ITEM 610.1402 TOPSOIL ROADSIDE AND ITEM 610.1602 - TURF ESTABLISHMENT.
3. ALL DIMENSIONS FROM PROPERTY LINES SHALL BE MEASURED PERPENDICULAR TO THE PROPERTY LINE.
4. CENTER ENTRANCE SIDEWALKS ON DOOR OPENINGS.
5. BUILDING DIMENSIONS ARE APPROXIMATE, REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
6. ALL HANDICAP RAMPS AND/OR SIDEWALKS FLUSH TO PAVEMENT SHALL HAVE ADA COMPLIANT TACTILE WARNING STRIPS WHERE ENTERING PARKING AREAS / DRIVEWAYS.
7. KNOX KEYBOX TO BE INSTALLED TO ALLOW FIRE DEPARTMENT ACCESS TO BUILDING KEYS, LOCATION TO BE COORDINATED WITH OWNER AND TOWN.
8. ALL EDGES OF PAVEMENT SHALL BE CURVED.
9. ALL SIDEWALKS ARE 5' WIDE UNLESS OTHERWISE NOTED.

GENERAL NOTES:

1. INSTALL ALL MATERIALS TO MANUFACTURER'S RECOMMENDATIONS AND BEST STANDARDS OF TRADE INVOLVED.
2. SUBSTITUTIONS SHALL BE MADE ONLY WITH OWNER'S APPROVAL AND BE OF EQUIVALENT QUALITY TO WHAT IS SPECIFIED.
3. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND OSHA SAFETY RULES AND REGULATIONS.
4. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. NOTIFY OWNER & ENGINEER OF DISCREPANCIES IN CONDITIONS SHOWN ON DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ANY EXISTING STRUCTURES TO REMAIN AND ANY FINISH MATERIAL INSTALLED WHILE WORKING ON OTHER COMPONENTS.
6. CONTRACTOR SHALL KEEP JOB FREE OF DEBRIS AND MAKE FINAL CLEANUP TO SATISFACTION OF OWNER.
7. CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THIS WORK WILL NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. ALL OTHER PERMITS REQUIRED BY STATE OF NEW YORK, COUNTY OF ERIE, AND TOWN OF WEST SENECA ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER/OWNER.

DETAIL LEGEND (SEE NOTE DETAIL SHEET)

1. TYPE "A" CONCRETE CURB
2. 90° PARKING STALL
3. CONCRETE SIDEWALK
4. STANDARD DUTY ASPHALT
5. HANDICAPPED PAVEMENT MARKINGS
6. HANDICAPPED PARKING SIGN
7. HANDICAP PAVEMENT RAMP

NOTE LEGEND

A. EDGE OF PROPOSED PAVEMENT
B. RUNOUT CURB IN 2' OR MATCH EXISTING CURB
C. INSTALL "NO PARKING" SIGN, M.U.T.C.D. SIGN NO. R7-1C (TO BE WALL MOUNTED)
D. LANDSCAPED AREA - SEE LANDSCAPE PLAN. IF NO PLANTINGS, INSTALL TOPSOIL & SEED
E. 6' HIGH WHITE VINYL FENCE

SITE LEGEND

- PROPERTY LINE
- PROPOSED CONCRETE CURB
- PROPOSED CONCRETE SIDEWALK
- PROPOSED ASPHALT PAVEMENT
- PROPOSED SIGN
- PROPOSED PARKING NUMBER (27)

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD MORRIS, D.P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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REVISIONS:

No.	Description	Date

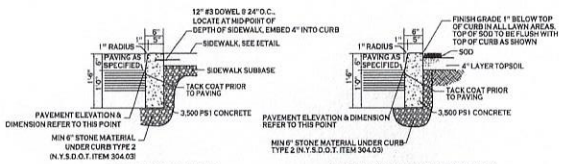
PROJECT NAME:
New Construction
Proposed Laundromat
1450 Ridge Road
West Seneca, New York

Date: 1/30/21
Drawn by: C. Wood
Scale: As Noted

DRAWING NAME:
Site Plan

DRAWING NO.
C-100

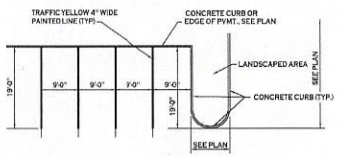
Project no.: 20.xxx



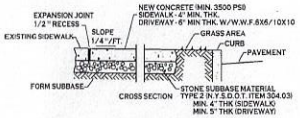
ABUTTING SIDEWALK ABUTTING LANDSCAPE/GRASS

NOTES:
1. CONTROL JOINTS TO BE 2" DEEP AT 15'-0" O.C. - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700
2. WHERE THE CURB DROPS IS FLUSH WITH ASPHALT) THE DEPTH OF CURB BELOW GRADE SHALL BE INCREASED TO 1'-6" AND OTHER DIMENSIONS ADJUSTED ACCORDINGLY

TYPE "A" CONCRETE CURB - 1

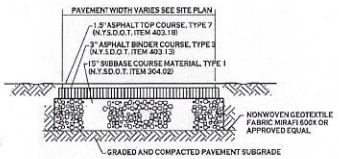


90° PARKING STALL LAYOUT - 2



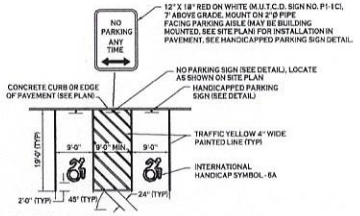
NOTES:
1. CONTROL JOINTS TO BE AT 5'-0" O.C., BOTHWAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 608-3.
3. SUBBASE GRADE SHALL FOLLOW THE PROPOSED GRADE OF THE SIDEWALK AND SLOPE AWAY FROM BUILDING WHERE APPLICABLE. PROVIDE CONTINUOUS STONE PATH TO CURB UNDERDRAIN WHERE PROVIDED.
4. FULL DEPTH EXPANSION JOINTS SHALL BE INSTALLED EVERY 20' O.C., BOTHWAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
5. SEE CURB DETAIL FOR DOWLING REQUIREMENTS WHERE ABUTTING CURB
6. INSTALL 6" LONG #3 DOWELS @ 12" O.C. WHERE SIDEWALK ABUTS A BUILDING WALL AT AN ENTRANCE, THICKEN SIDEWALK TO 6" AT BUILDING WALL AND INSTALL DOWEL CENTERED IN THE 6" DEPTH. DOWELS AND THICKENING OF SIDEWALK SHALL EXTEND 18" EITHER SIDE OF ENTRANCE.
7. INSTALL ½" PREMOLDED EXPANSION JOINT WITH BACKER ROD & SEALANT WHERE SIDEWALK ABUTS BUILDING OR OTHER STRUCTURE

CONCRETE SIDEWALK - 3

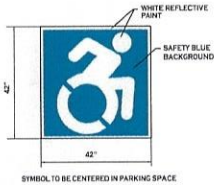


NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 401-3, WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304-3.

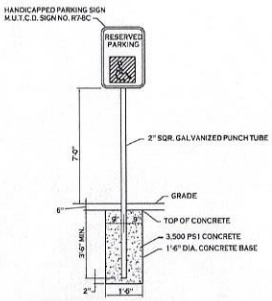
STANDARD DUTY ASPHALT SECTION - 4A



HANDICAPPED PAVEMENT MARKINGS & SIGNAGE - 5



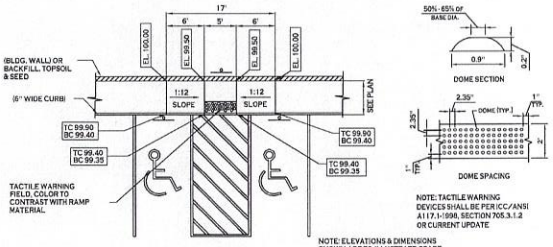
INTERNATIONAL HANDICAP SYMBOL



NOTES:
1. HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.

HANDICAP PARKING SIGNS - 6

INSTALLED IN GRASS/LANDSCAPED AREA



HANDICAPPED PAVEMENT RAMP - 7

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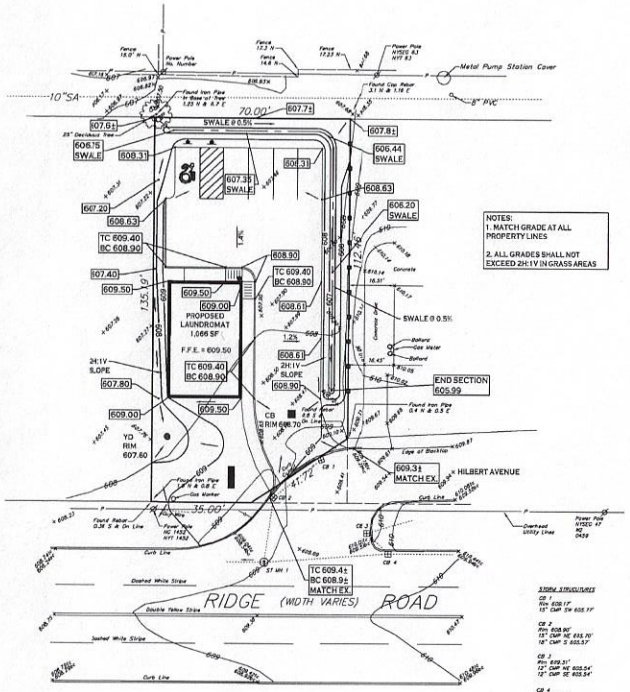
REVISIONS:
No. Description Date:

PROJECT NAME:
New Construction
Proposed Laundromat
1450 Ridge Road
West Seneca, New York

Date: 1/30/21
Drawn by: C. Wood
Scale: As Noted

DRAWING NAME:
Site Details

DRAWING NO.
C-101
Project no.: 20.xxx



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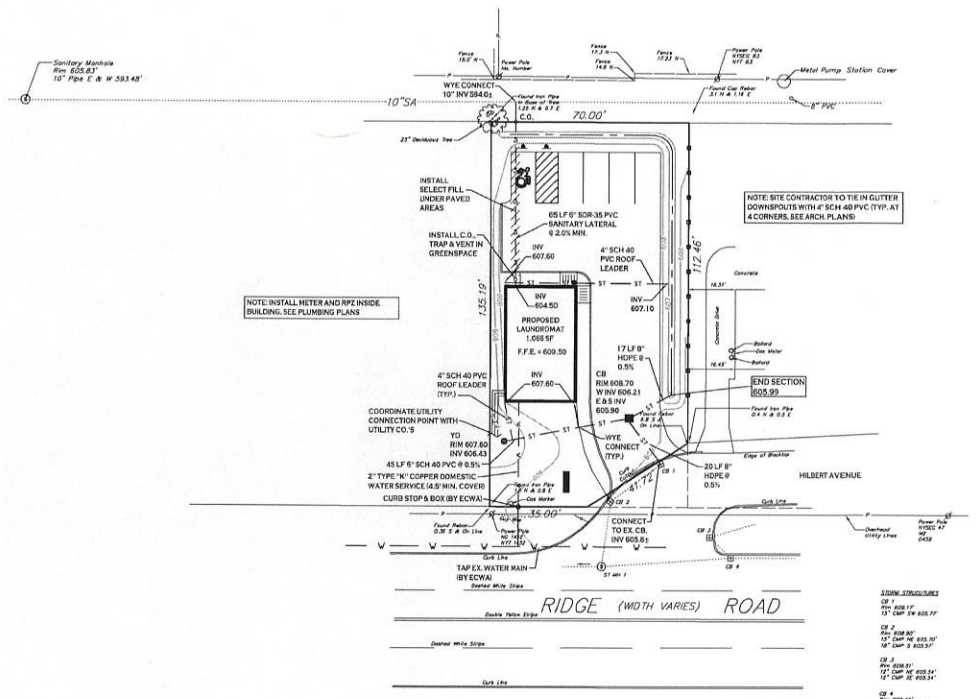
GRADING PLAN

SCALE: 1"=20'



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STORM & UTILITY PLAN

SCALE: 1"=20'

PROPOSED GRADING LEGEND

PROPOSED CONTOUR	101
PROPOSED SPOT ELEVATION	100.80
PROPOSED TOP/BOTTOM OF CURB ELEV.	TC 100.50 BC 100.00
PROPOSED CATCH BASIN	CB
PAVEMENT/GROUND SLOPE	
PROPOSED YARD DRAIN	YD

PROPOSED UTILITY LEGEND

PROPOSED STORM SEWER	ST
PROPOSED SANITARY SEWER	SA
PROPOSED WATERLINE	W
PROPOSED GAS (G), ELECTRIC (E), CABLE (C), & TELEPHONE (T)	
PROPOSED CATCH BASIN	CB
PROPOSED YARD DRAIN	YD

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD MORRIS, D.P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

40' 40 0 40 80FL

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REVISIONS:

No.	Description	Date

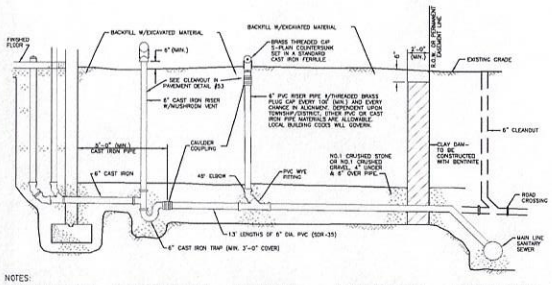
PROJECT NAME:
New Construction
Proposed Laundromat
1450 Ridge Road
West Seneca, New York

Date: 1/30/21
Drawn by: C. Wood
Scale: As Noted

DRAWING NAME:
Grading & Storm/Utility Plan

DRAWING NO.
C-200

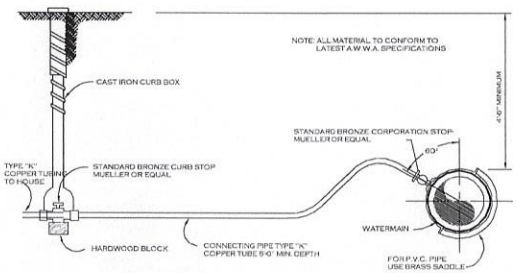
Project no.: 20.xxx



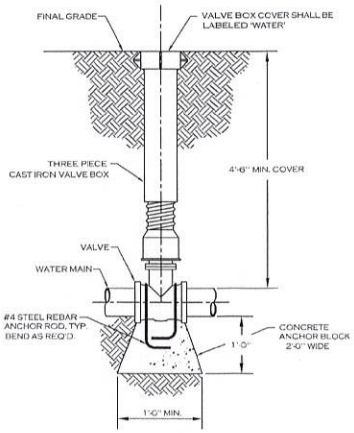
NOTES:

1. THE SERVICE LATERAL MUST BE INSTALLED A MINIMUM OF 10' ABOVE THE BASEMENT FLOOR, (IF BUILDING CONTAINS A BASEMENT), WHERE LOCAL BUILDING ORDINANCES DIFFER FROM THIS REFERENCE, THE CONTRACTOR ARE TO COMPLY WITH THE MORE STRINGENT.
2. PVC PIPE MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST ASTM SPECIFICATION D-3033/D-3034. CAST IRON MATERIALS SHALL CONFORM TO SERA HEAVY CAST IRON MEETING THE REQUIREMENTS OF ASTM A74-42.
3. PURSUANT TO LOCAL RULES & REGULATIONS, PIPE SHALL BE LAID AT 1/4" PER FOOT GRADE, ANY VARIANCE MUST BE APPROVED BY THE DISTRICT ENGINEER IN NO CASE SHALL GRADE BE LESS THAN 1/8" PER FOOT.
4. A MANUAL VALVE SHALL BE INSTALLED ON ALL BASEMENT DRAIN LINES.
5. VENTS INSTALLED IN SIDEWALK OR PAVED AREAS, SHALL BE FLUSH.
6. SELECT BACKFILL REQUIRED UNDER PAVED AREAS.
7. CONCRETE ENCASEMENT IF COVER DEPTH IS LESS THAN 4'-0" UNDER PAVED AREAS.
8. MIN. DEPTH OF COVER 3'-0"
9. A GREASE TRAP AND OIL SEPARATOR REQUIRED WHERE APPLICABLE.

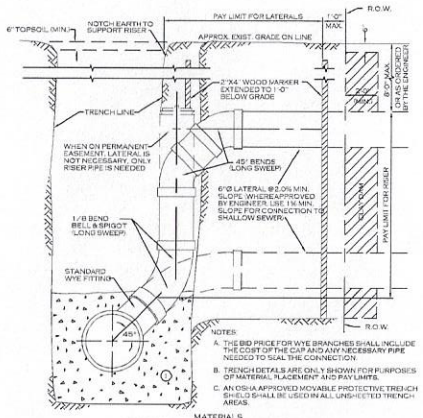
TYPICAL COMMERCIAL SERVICE WITHOUT BASEMENT DETAIL



TYPICAL WATER SERVICE LINE INSTALLATION



TYPICAL GATE VALVE DETAIL



NOTES:

A. THE BID PRICE FOR WYE BRANCHES SHALL INCLUDE THE COST OF THE CAP AND ANY NECESSARY PIPE NEEDED TO SEAL THE CONNECTION.

B. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND PAY LIMITS.

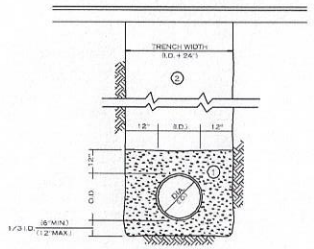
C. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1995 EDITION)

① NO. 1 CRUSHED STONE WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE CRUSHED STONE SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER. NO SLAG WILL BE ALLOWED.

TYPICAL RISER & HOUSE CONNECTION DETAIL FOR SEWERS UP TO 18"Ø



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1995 EDITION)

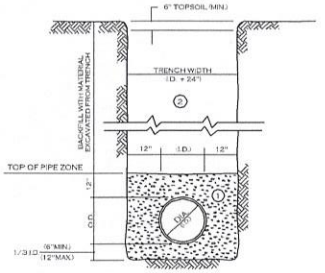
① NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL ①

② TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL ②

UTILITY TRENCH SECTION IN PAVED AREAS



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1995 EDITION)

① NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL ①

② BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL. COMPACTED IN 6" LIFTS.

UTILITY TRENCH SECTION IN UNPAVED AREAS

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REVISIONS:

No.	Description	Date

PROJECT NAME:

New Construction

Proposed Laundromat

1450 Ridge Road
West Seneca, New York

Date: 1/30/21
Drawn by: C. Wood
Scale: As Noted

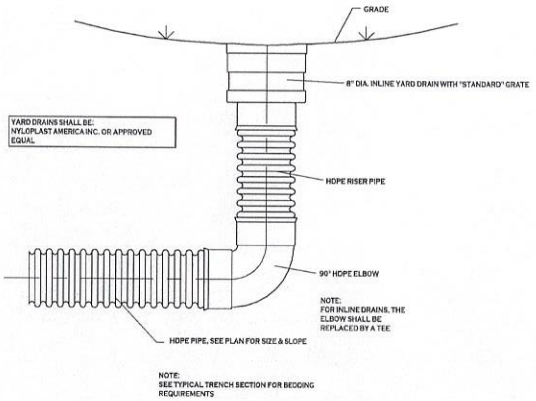
DRAWING NAME:

Storm/Utility Details

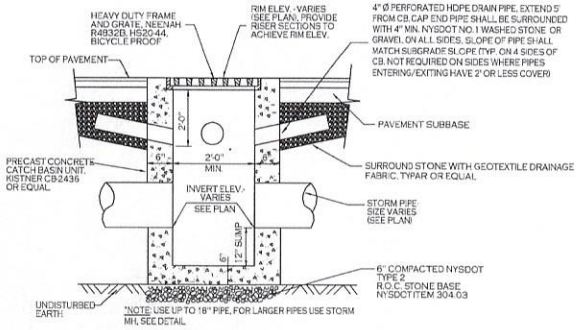
DRAWING NO.

C-201

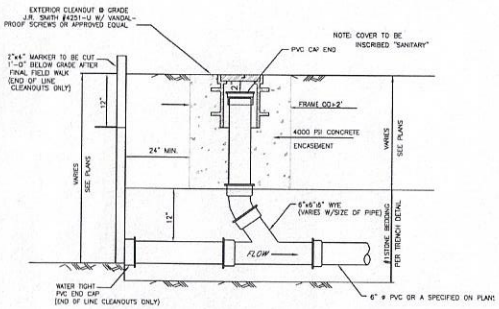
Project no.: 20.xxx



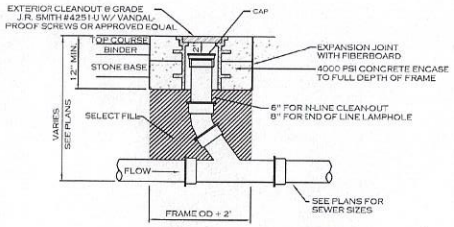
TYPICAL YARD DRAIN DETAIL



TYPICAL PRECAST CATCH BASIN



LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS
NOT TO SCALE



Lamphole/Cleanout in Pavement/Sidewalk
NOT TO SCALE

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REVISIONS:
No. Description Date

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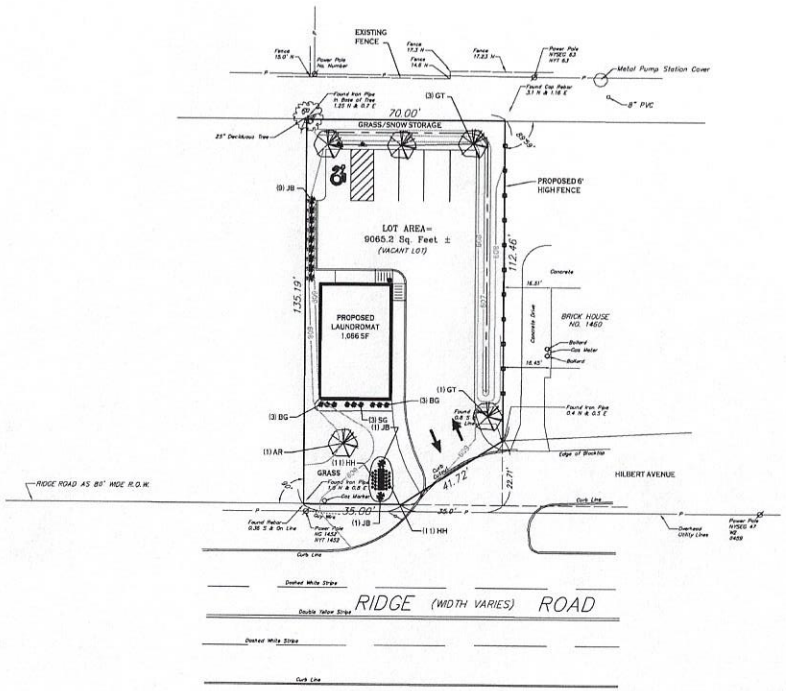
New Construction
Proposed Laundromat
1450 Ridge Road
West Seneca, New York

Date: 1/30/21
Drawn by: C. Wood
Scale: As Noted

DRAWING NAME:
Storm/Utility Details

DRAWING NO.
C-202

Project no.: 20.xxx



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SITE PLAN

SCALE: 1"=20'

SITE DATA		
SITE AREA = 0.21 AC		
ZONED: C-2		
DESCRIPTION: PROPOSED LAUNDROMAT		
SETBACKS - BUILDING	**REQUIRED**	**PROVIDED**
FRONT:	40 FT	32.97 FT MIN. *
SIDE/REAR (ABUTTING COMM.):	5 FT / 10 FT	5 FT / N/A
SIDE/REAR (ABUTTING RES.)	10 FT / 30 FT	N/A / XXX FT
SETBACKS - PARKING		
FRONT:	10 FT	> 10 FT
SIDE /REAR (ABUTTING COMM.):	10 FT	40 FT MIN. *
SIDE /REAR (ABUTTING RES.)	10 FT	10 FT MIN.
PARKING (STALL SIZE: 9'x18')		
# OF SPACES - SEE CALCULATION BELOW	3	5
MAX. BUILDING HEIGHT	40 FT MAX.	< 40 FT

* AREA VARIANCE REQUIRED

PARKING CALCULATION:
"LAUNDROMAT"
REQ'D PARKING = 1 SPACE PER 350 GSF
= 1,066 GSF / 350 = 3 SPACES

PLANTING NOTES:

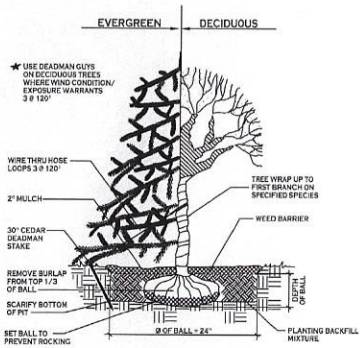
1. ALL INTERIOR LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL FORMS OF CONSTRUCTION DEBRIS AND FOREIGN MATERIAL.
2. ALL TREE PIT SAUCERS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL RECEIVE "PREEN" HERBICIDE AND THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH.
3. ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF TWELVE (12) INCHES DEEP WITH A WELL-BLENDED MIXTURE OF 50% PEAT MOSS & 50% SCREENED TOPSOIL. SEASONAL FLOWER BEDS SHALL RECEIVE "PREEN" HERBICIDE. NO MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS.
4. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.

LANDSCAPE NOTES:

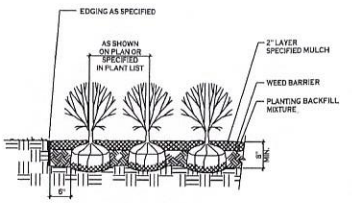
1. ALL PLANTS INSTALLED SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED ON THE PLANS AND IN THE LATEST EDITION ON THE AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI Z60.1
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF. THE QUANTITIES SHOWN ARE A MINIMUM AND ARE FOR REFERENCE ONLY.
3. THE CONTRACTOR SHALL PERFORM A ROUGH FIELD STAKEOUT OF ALL PLANTING MATERIAL LOCATIONS AND CONTACT THE OWNERS FIELD REPRESENTATIVE PRIOR TO ACTUALLY INSTALLING. THE PLANTING MATERIAL LOCATIONS SHOWN ON THE PLANS ARE TO CONVEY THE DESIGN INTENT ONLY. ACTUAL LOCATIONS WILL BE FINALIZED BY THE OWNERS FIELD REPRESENTATIVE AT THE TIME OF INSTALLATION.
4. THE CONTRACTOR IS HEREBY NOTIFIED THAT IF UNDERGROUND UTILITIES EXIST IN THE VICINITY OF THE PLANTINGS, ALL PROPOSED PLANTINGS SHALL BE INSTALLED A MINIMUM OF 5' FROM ANY UNDERGROUND UTILITY. CONTACT THE OWNERS FIELD REPRESENTATIVE IF PLANTINGS SHOWN ON THE PLANS ISOLATE THIS SITUATION.
5. ALL TREES SHALL BE INSTALLED A MINIMUM OF 20' FROM ANY OVERHEAD ELECTRIC LINES.
6. PLANTING BACKFILL MIXTURE SHALL CONSIST OF 4 PARTS TOPSOIL, 1 PART PEAT MOSS, ½ PART WELL ROTTED MANURE, 10 LBS 5-10-5 PLANTING FERTILIZER THOROUGHLY MIXED PER CUBIC YARD.
7. STAKE AND WRAP TREES IMMEDIATELY FOLLOWING INSTALLATION.
8. ALL PLANTED AREAS SHALL RECEIVE A 3" LAYER OF SHREDDED PINE BARK MULCH OVER 10 MIL. WEED MAT EQUAL TO "WEEDBLOCK" BY EASY GARDENER OR DEWITT WEED BARRIER.
9. THE AREAS ON THE PLAN TO BE SEEDED SHALL HAVE 4" MINIMUM OF TOPSOIL, DISK PLOWED, LEVELED AND HAND RAKED SMOOTH. SURFACE SHALL BE ROLLED TO REMOVE LUMPS.
10. ALL SEEDED AREAS SHALL BE HYDROSEEDED IN ACCORDANCE WITH THE SPECIFICATION INDICATED, WHERE REQUIRED BY CLIMATIC CONDITIONS, SLOPE OR SEASON OF PLANTING, SOD MAY BE SUBSTITUTED FOR SEEDING IN ORDER TO ACHIEVE THE REQUIRED COVERAGE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MOWING AND OTHER MAINTENANCE TO SEEDED AREAS UNTIL THE PROJECT IS ACCEPTED BY THE OWNER. THIS SHALL INCLUDE WATERING DAILY FOR 15 DAYS OR AS REQUIRED BY WEATHER CONDITIONS AND RE-SEEDING OF THIN SPOTS FOLLOWING THE GERMINATION OF THE SEEDS.

PLANTING SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	REMARKS
GT	4	GLEDITSIA TRIACANTHOS INERMIS "SKYLINE"	SKYLINE HONEYLOCUST	2.5"-3" CAL.	
AR	1	ACER RUBRUM "RED SUNSET"	RED SUNSET MAPLE	2.5" - 3" CAL.	
BG	6	BUXUS "GREEN VELVET"	GREEN VELVET BOXWOOD	21"-24"	
HH	22	HEMEROCALLIS "HAPPY RETURNS"	HAPPY RETURNS DAYLILLY	NO. 2 CONT.	
JB	11	JUNIPERUS SCOPULORUM "MOFFETTII"	BLUE MOFFET JUNIPER	4" HT.	FULL TO GROUND
SG	3	SPIRAEA BUMALDA "GOLD FLAME"	GOLD FLAME SPIREA	18"-24"	



STD. TREE PLANTING



STD. SHRUB PLANTING

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD MORRIS, D.P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20' 20 0 20 40FT.

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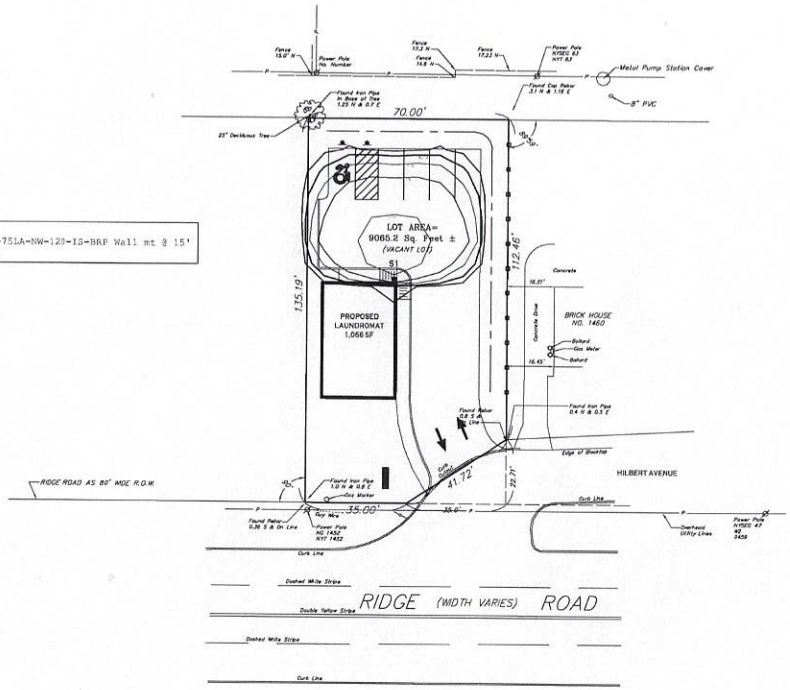
DRAWING NAME:
Landscape Plan

DRAWING NO.
L-100

Project no.: 20.xxx

Site Lights
Wall Lights (S1) - Gardco ECF-WS-4-75LA-NW-120-IS-BRP Wall mt @ 15'



N **SITE PLAN**
SCALE: 1"=20'

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Date: 1/18/21
Drawn by: C. Wood
Scale: As Noted

DRAWING NAME:
Lighting Plan

DRAWING NO.
LP-100
Project no.: 20.xxx