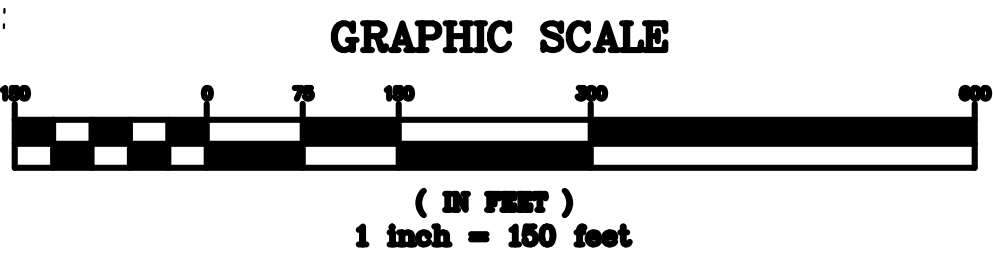
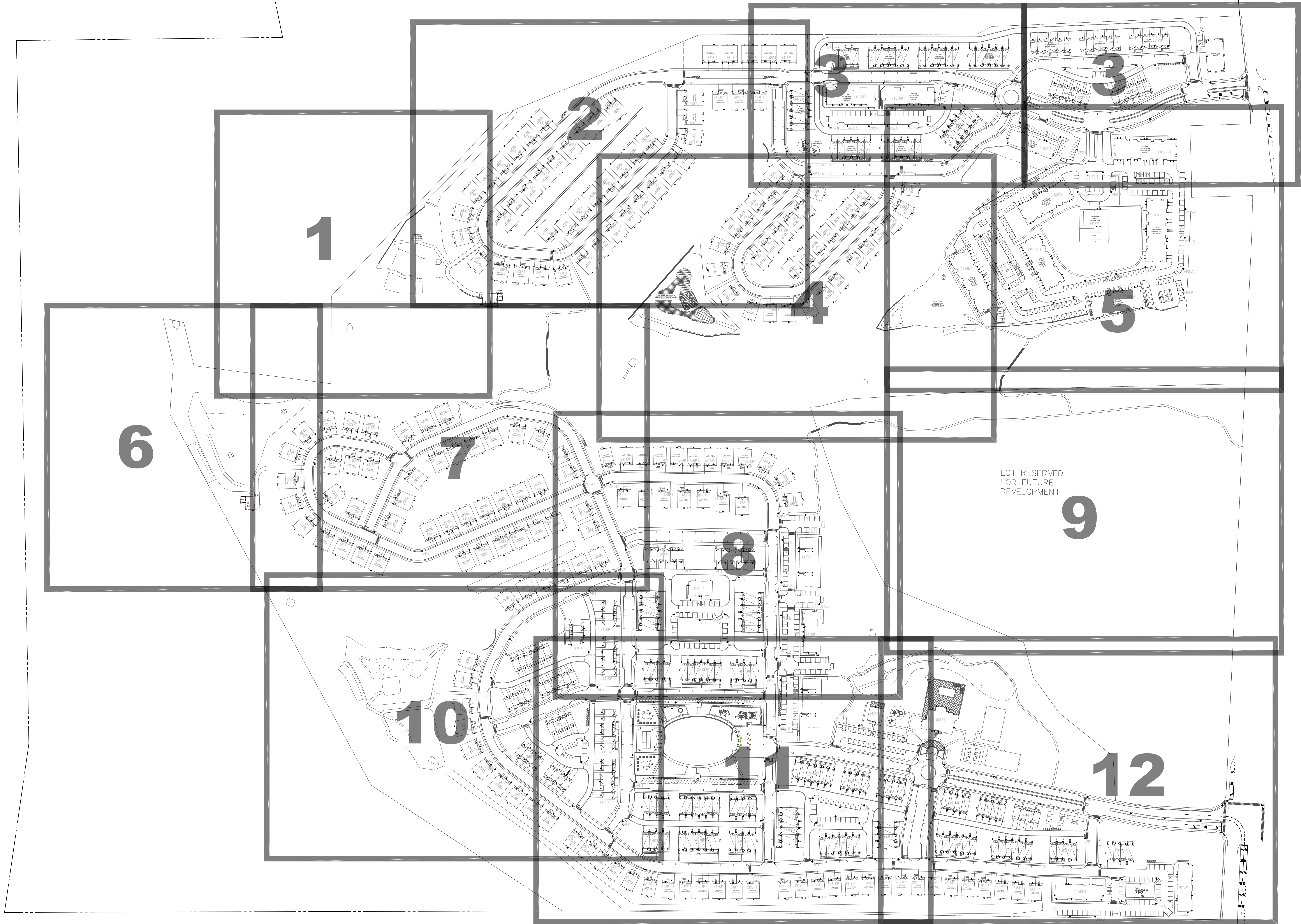


Pre-Marked Exhibit

A-19d Site Lighting Plan - Revised (17 Sheets)



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REV.	DESCRIPTION	DATE	DFT BY	CHK BY

CHRISTINA SPANGLER
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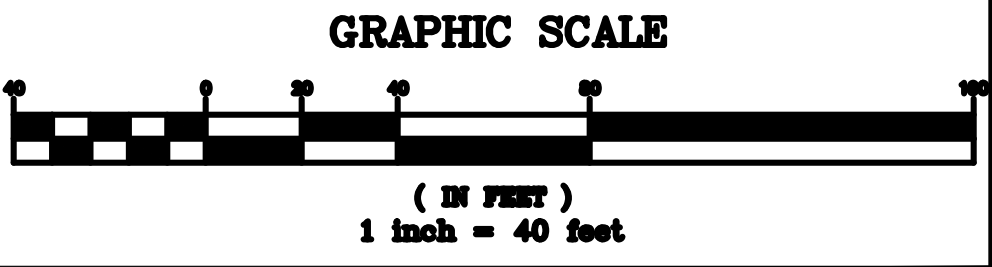
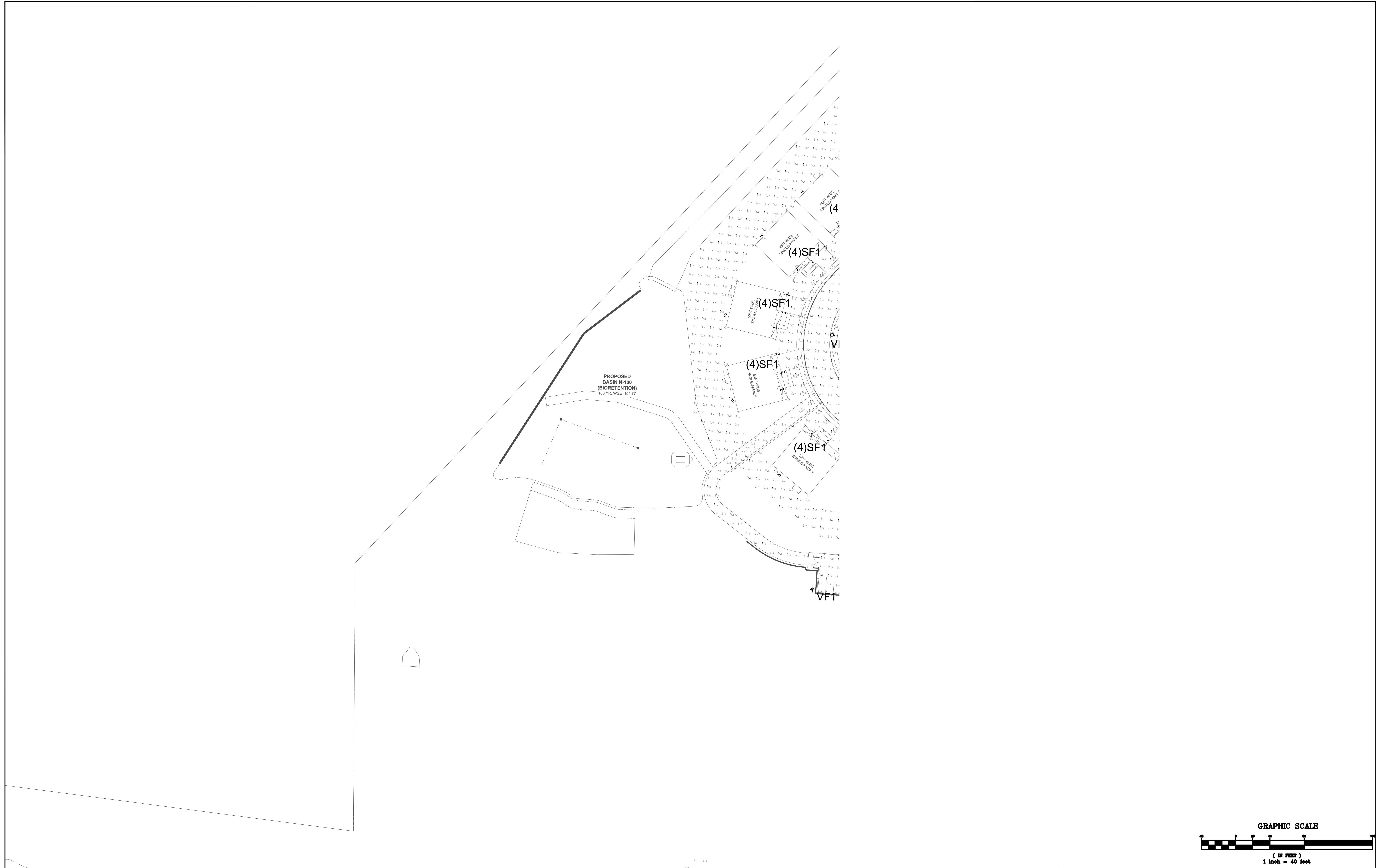


OVERALL SITE LIGHTING PLAN
OF
HOPEWELL PARC
SITUATED IN

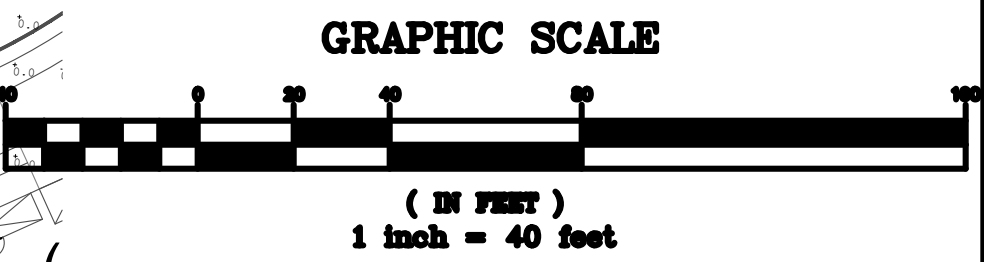
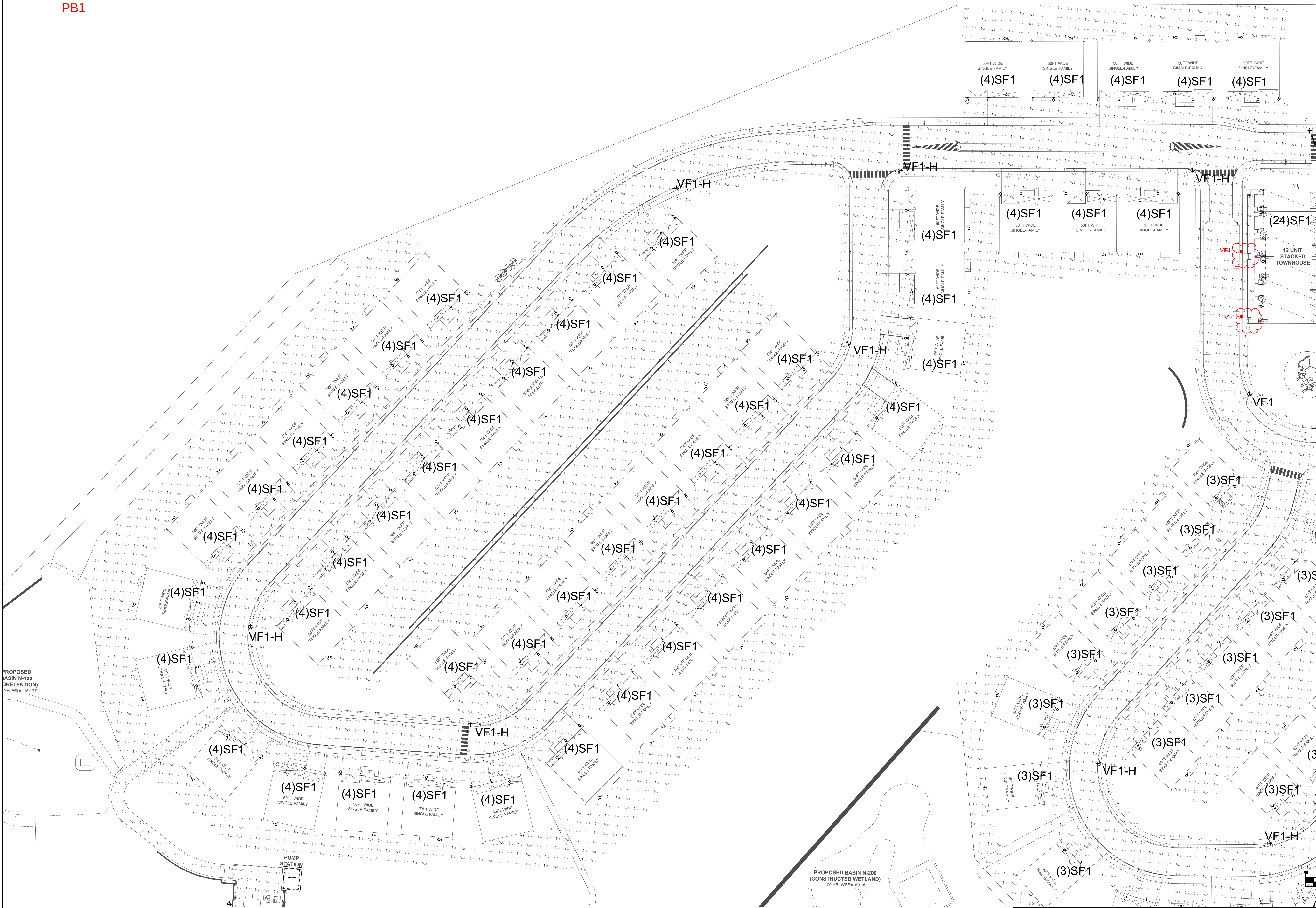
HOPEWELL TOWNSHIP
SCALE 1"= 150'
DRAWN BY JR
DATE 12/16/20
CHECKED BY CS
DATE 12/16/20

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ORDER No. 45051-400-21
FILE No. 203-A-1
SHEET No. LG1.01

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SITE LIGHTING PLAN 1 (MAINTAINED ILLUMINATION LEVELS) OF NORTH SECTION HOPEWELL PARC SITUATED IN																														
BEAM, Ltd. 2220 Mount Carmel Avenue Glenside, PA 19038 T. 215.508.0900 www.beamitd.com	CHRISTINA SPANGLER LIGHTING CERTIFIED BY NCQLP EXPIRATION 12.31.21					HOPEWELL TOWNSHIP SCALE 1" = 40' DRAWN BY JR DATE 12/16/20 CHECKED BY CS DATE 12/16/20	MERCER CO., N.J. DECEMBER 16, 2020	FILE BK PAGE	ORDER No. 45051-400-21	FILE No. 203-A-1	SHEET No. LG2.01																			



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REV.	DESCRIPTION	DATE	DFT.BY	CKD.BY

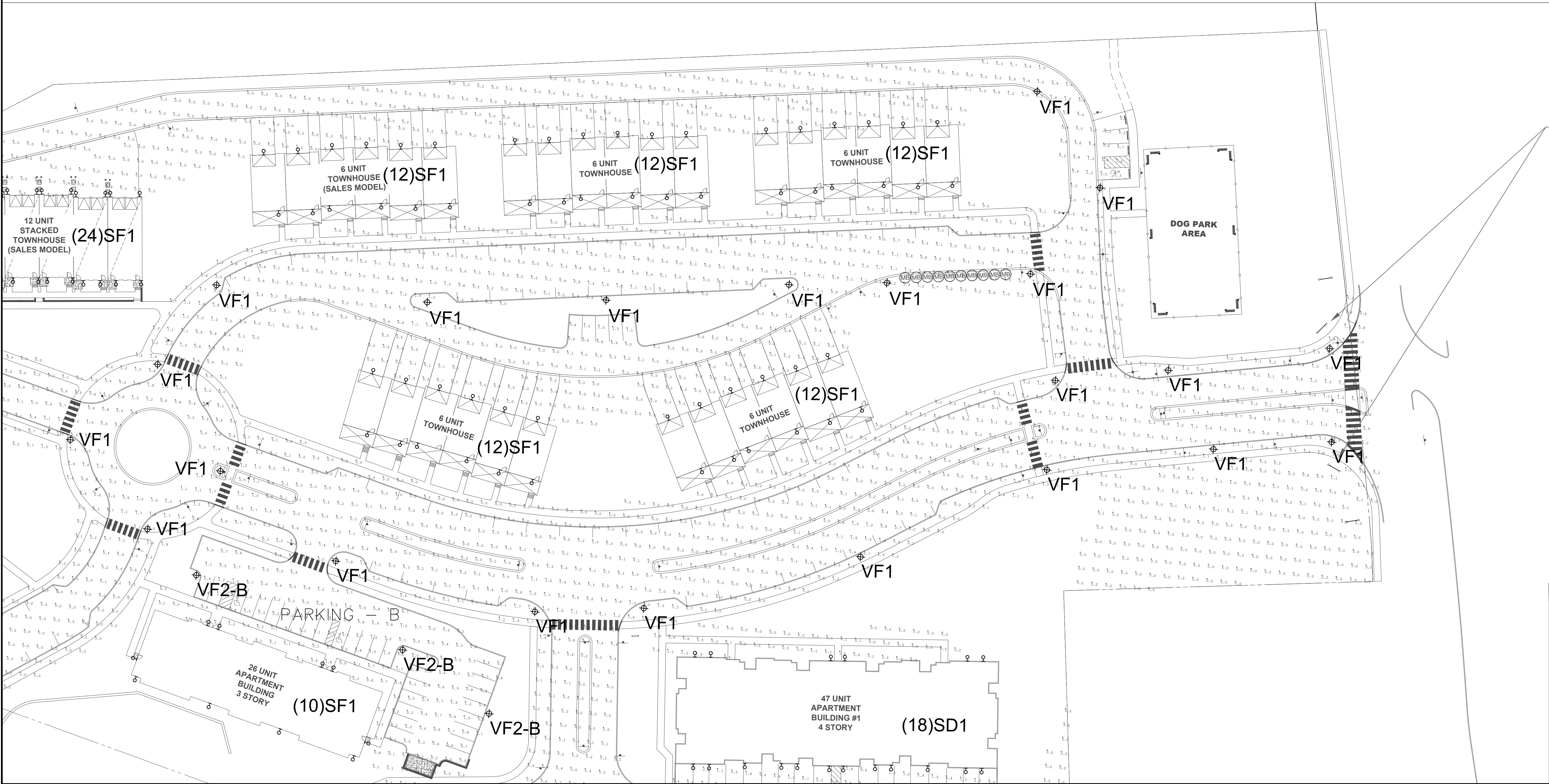
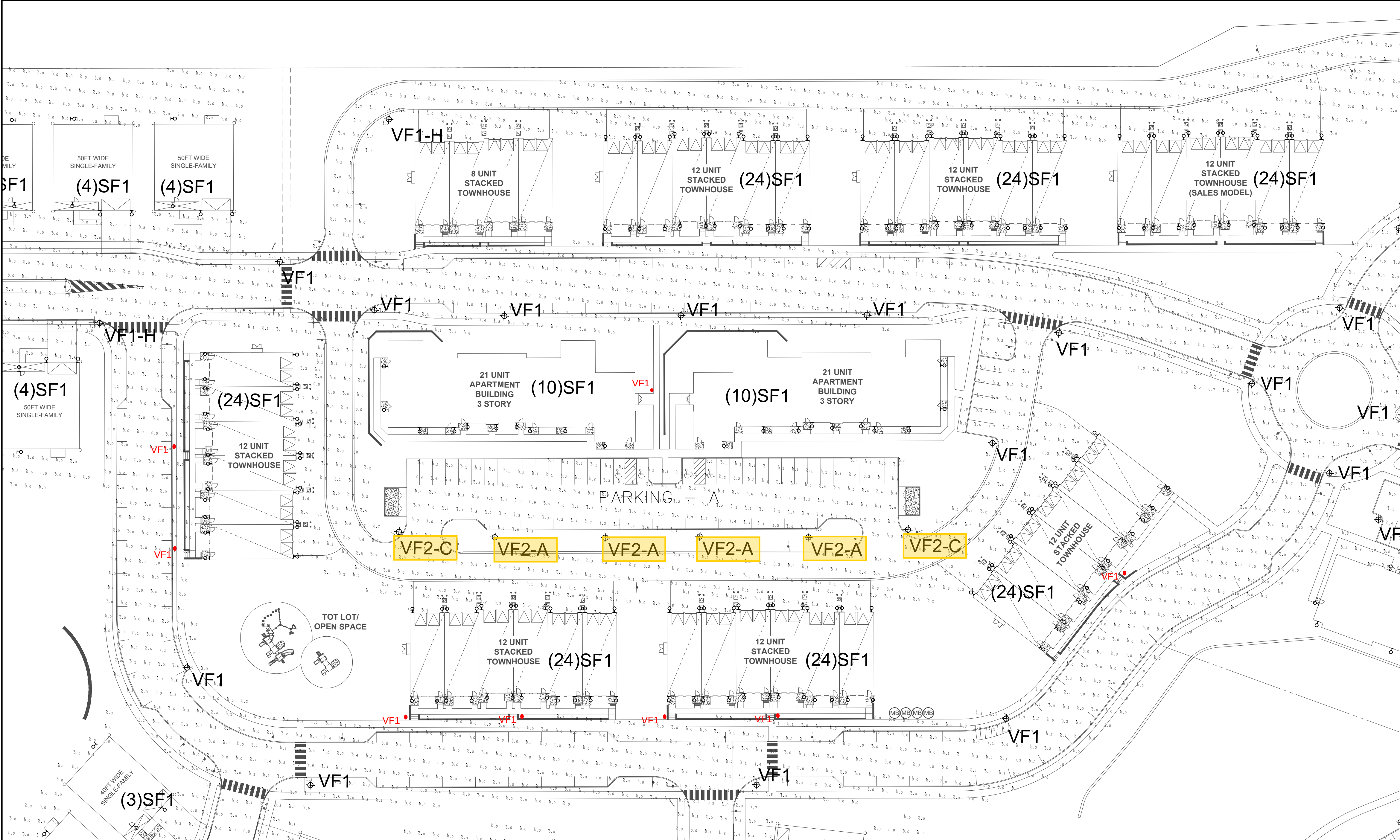
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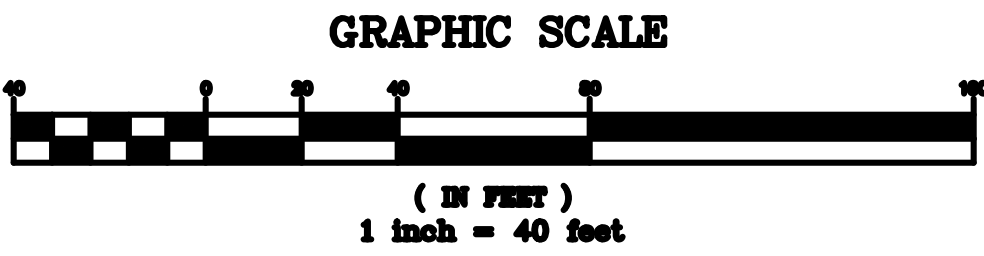
SITE LIGHTING PLAN 2
(MAINTAINED ILLUMINATION LEVELS)
OF
NORTH SECTION
HOPEWELL PARC
SITUATED IN

HOPEWELL TOWNSHIP
DRAWN BY JR
DATE 12/16/20
CHECKED BY CS
DATE 12/16/20

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DECEMBER 16, 2020
FIELD BK ORDER No. FILE No. SHEET No.
PAGE 45051-45051-21 203-A-1 L62.02



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SITE LIGHTING PLAN 3

(MAINTAINED ILLUMINATION LEVELS)

OF

NORTH SECTION

HOPEWELL PARC

SITUATED IN

HOPEWELL TOWNSHIP

SCALE 1" = 40'

DRAWN BY JR

DATE 12/16/20

CHECKED BY

DATE 12/16/20

CHRISTINA SPANGLER

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EXPIRATION 12.31.21

FIELD BK

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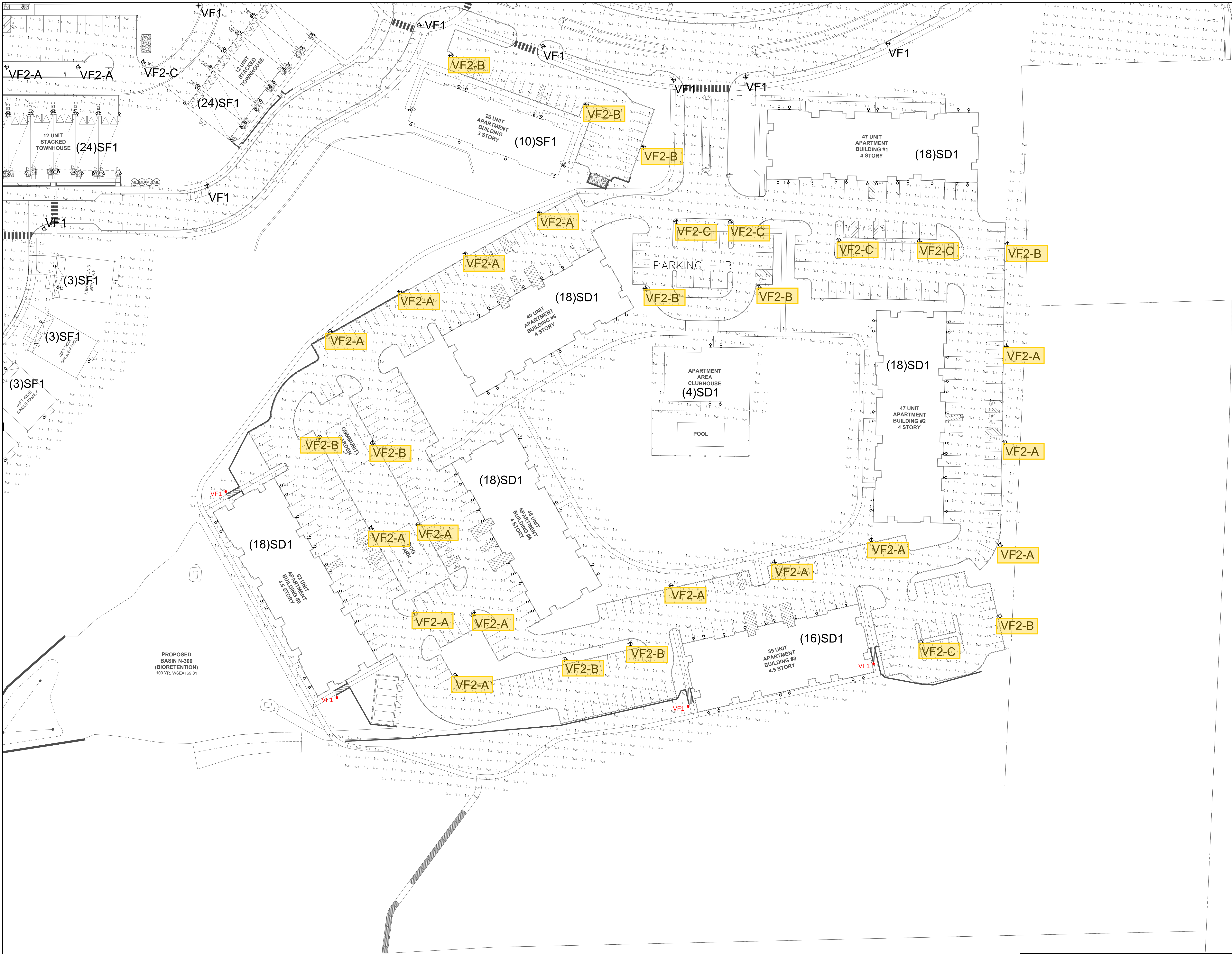
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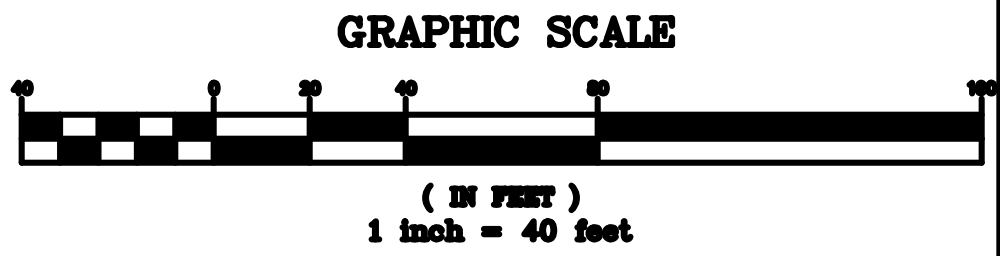
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PB3



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SITE LIGHTING PLAN 5
(MAINTAINED ILLUMINATION LEVELS)
OF
NORTH SECTION
HOPEWELL PARC
SITUATED IN

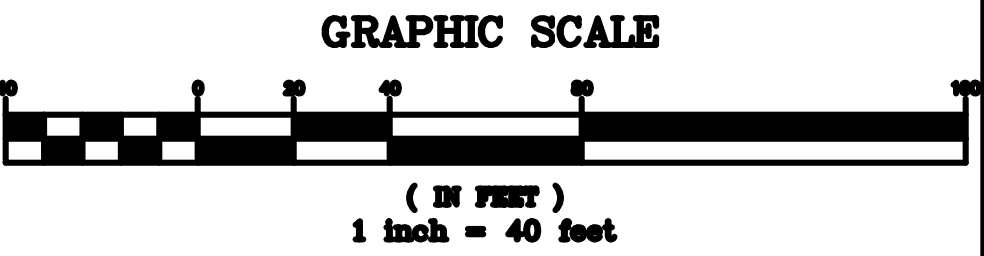
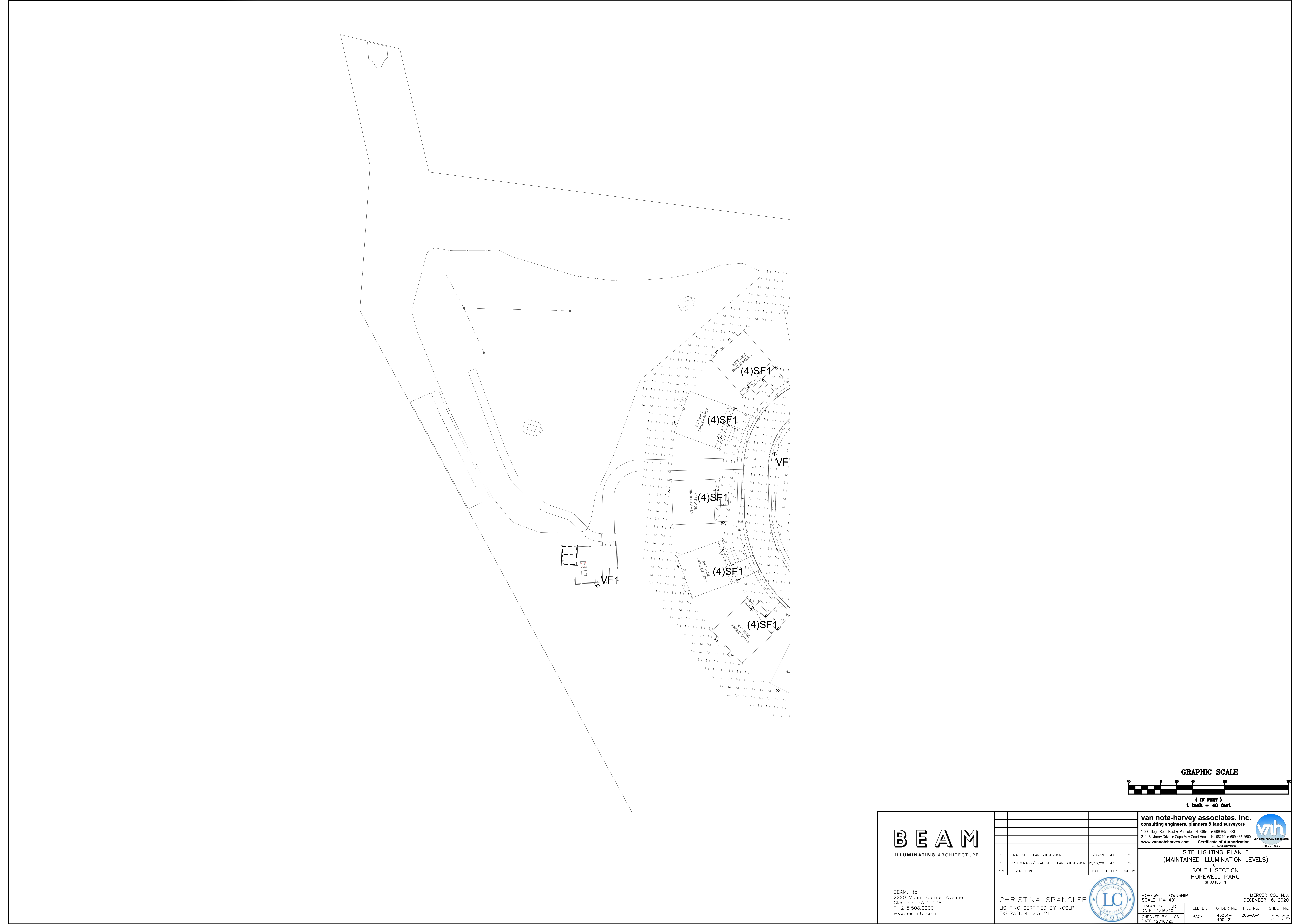
HOPEWELL TOWNSHIP
SCALE 1" = 40'
DRAWN BY JR
DATE 12/16/20
CHECKED BY CS
DATE 12/16/20

CHRISTINA SPANGLER
LIGHTING, CERTIFIED BY NCQLP
EXPIRATION 12.31.21

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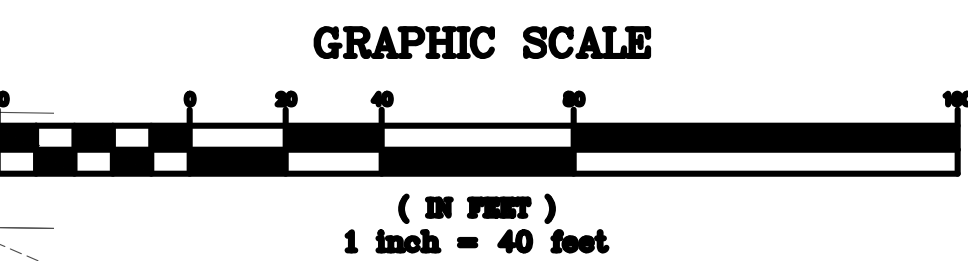
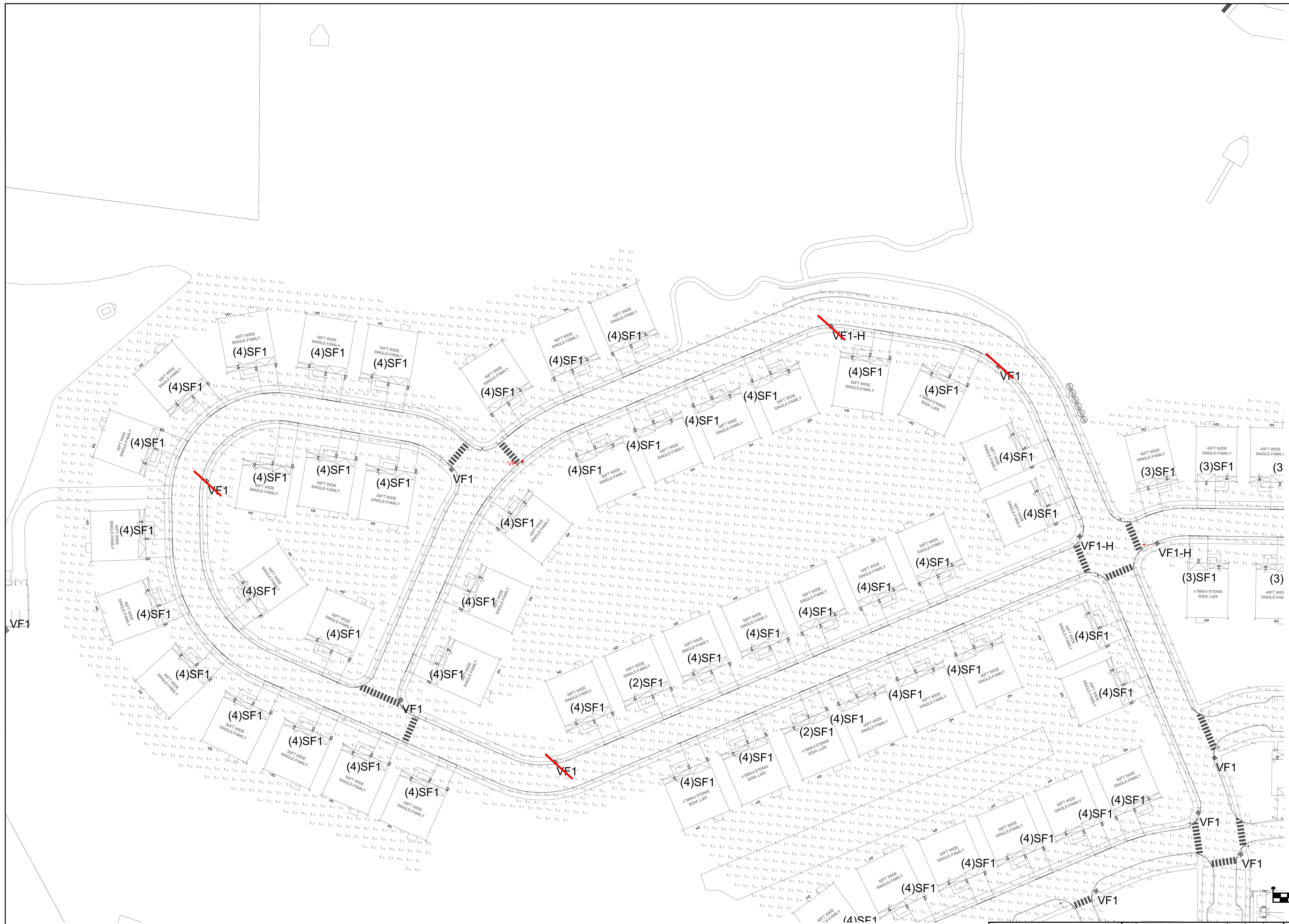
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BEAM, Ltd. 2220 Mount Carmel Avenue Glenside, PA 19038 T. 215.508.0900 www.beamild.com	<table border="1"><tr><td colspan="2">SITE LIGHTING PLAN 6 (MAINTAINED ILLUMINATION LEVELS) OF SOUTH SECTION HOPEWELL PARC SITUATED IN</td></tr><tr><td colspan="2">HOPEWELL TOWNSHIP SCALE 1" = 40'</td></tr><tr><td>DRAWN BY: JR</td><td>MERCER CO., N.J. DECEMBER 16, 2020</td></tr><tr><td>DATE: 12/16/20</td><td></td></tr><tr><td>CHECKED BY: CS</td><td></td></tr><tr><td>DATE: 12/16/20</td><td></td></tr></table>				SITE LIGHTING PLAN 6 (MAINTAINED ILLUMINATION LEVELS) OF SOUTH SECTION HOPEWELL PARC SITUATED IN		HOPEWELL TOWNSHIP SCALE 1" = 40'		DRAWN BY: JR	MERCER CO., N.J. DECEMBER 16, 2020	DATE: 12/16/20		CHECKED BY: CS		DATE: 12/16/20					
SITE LIGHTING PLAN 6 (MAINTAINED ILLUMINATION LEVELS) OF SOUTH SECTION HOPEWELL PARC SITUATED IN																				
HOPEWELL TOWNSHIP SCALE 1" = 40'																				
DRAWN BY: JR	MERCER CO., N.J. DECEMBER 16, 2020																			
DATE: 12/16/20																				
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CHRISTINA SPANGLER LIGHTING CERTIFIED BY NCQLP EXPIRATION 12.31.21				<table border="1"><tr><td>FIELD BK</td><td>ORDER No.</td><td>FILE No.</td><td>SHEET No.</td></tr><tr><td>PAGE</td><td>45051-400-21</td><td>203-A-1</td><td>LG2.06</td></tr></table>		FIELD BK	ORDER No.	FILE No.	SHEET No.	PAGE	45051-400-21	203-A-1	LG2.06							
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PAGE	45051-400-21	203-A-1	LG2.06																	

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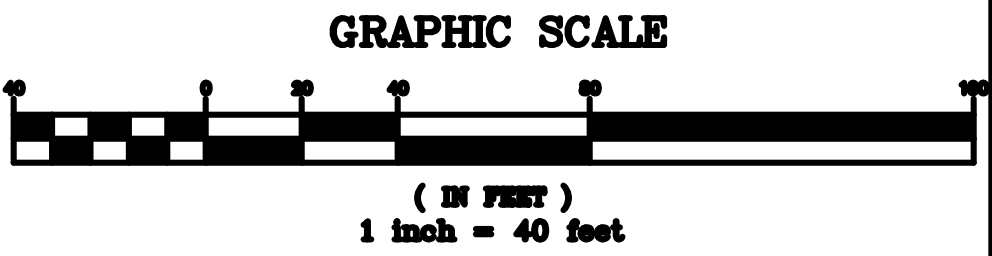
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OF
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HOPEWELL PARC
SITUATED IN

HOPEWELL TOWNSHIP
DRAWN BY: JR
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DATE: 12/16/20

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FIELD BK	ORDER No.	FILE No.	SHEET No.
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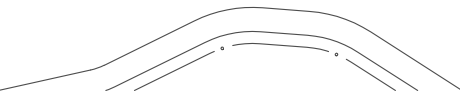
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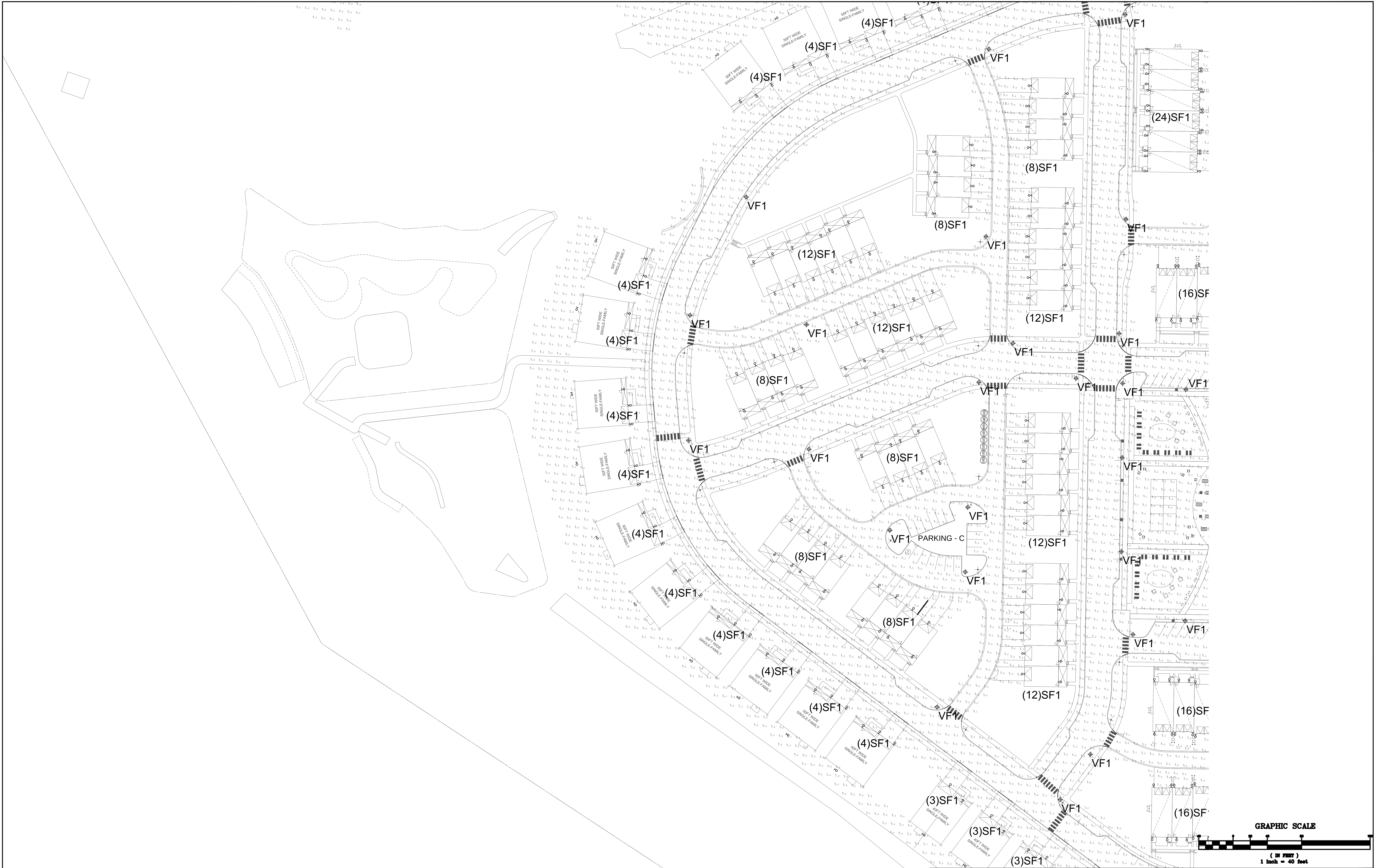
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(MAINTAINED ILLUMINATION LEVELS)
OF
SOUTH SECTION
HOPEWELL PARC
SITUATED IN

HOPEWELL TOWNSHIP
SCALE 1" = 40'
DRAWN BY JR
DATE 12/16/20
CHECKED BY CS
DATE 12/16/20

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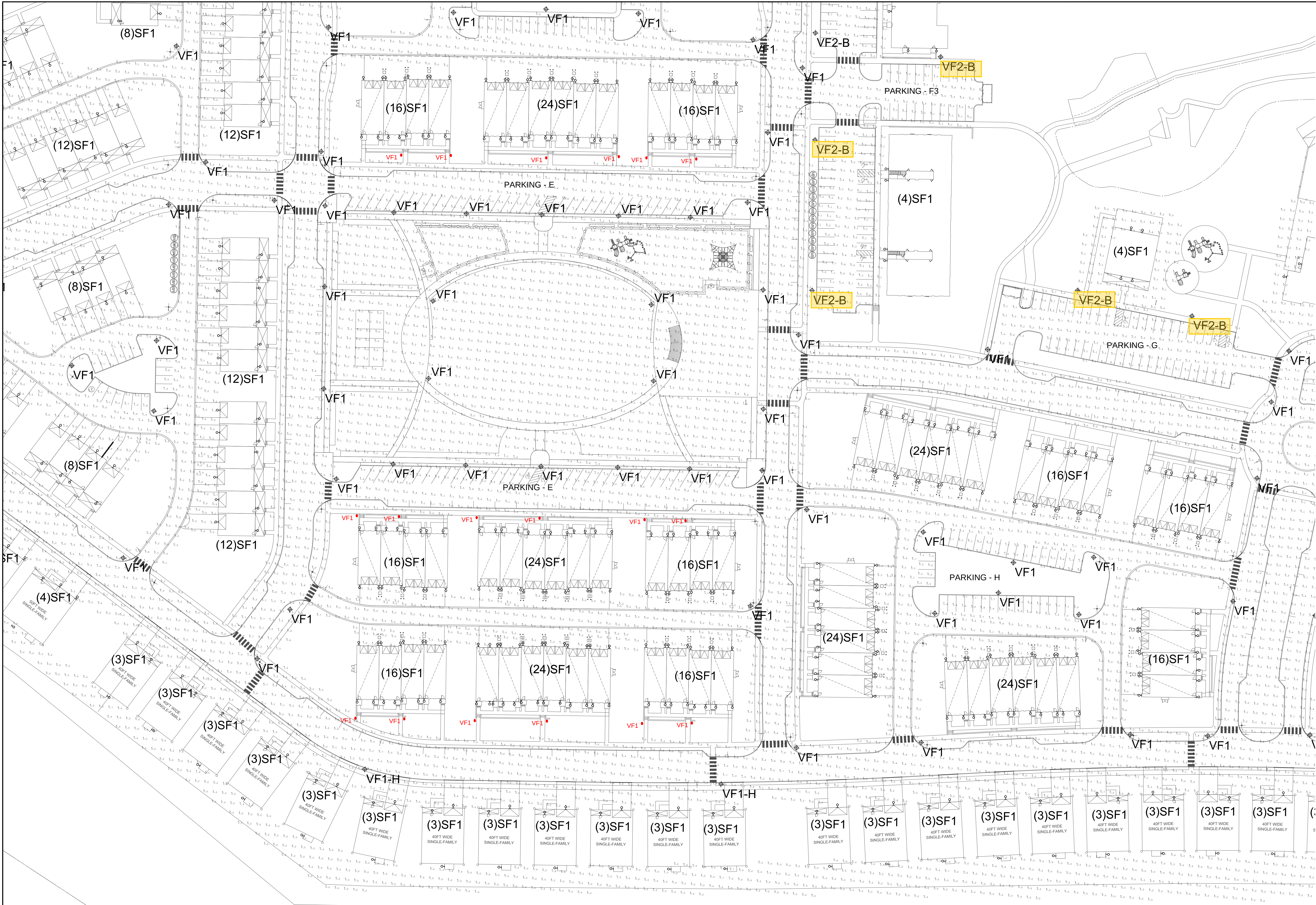
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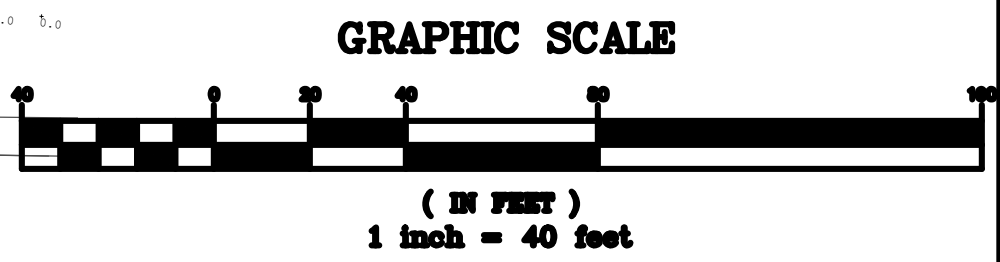
SITE LIGHTING PLAN 10
(MAINTAINED ILLUMINATION LEVELS)
OF
SOUTH SECTION
HOPEWELL PARC
SITUATED IN

HOPEWELL TOWNSHIP
SCALE 1" = 40'
DRAWN BY JR
DATE 12/16/20
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FIELD BK ORDER No. FILE No. SHEET No.
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SITE LIGHTING PLAN 11
(MAINTAINED ILLUMINATION LEVELS)
OF
SOUTH SECTION
HOPEWELL PARC
SITUATED IN

HOPEWELL TOWNSHIP
SCALE 1" = 40'
DRAWN BY JR
DATE 12/16/20
CHECKED BY CS
DATE 12/16/20

CHRISTINA SPANGLER
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EXPIRATION 12.31.21

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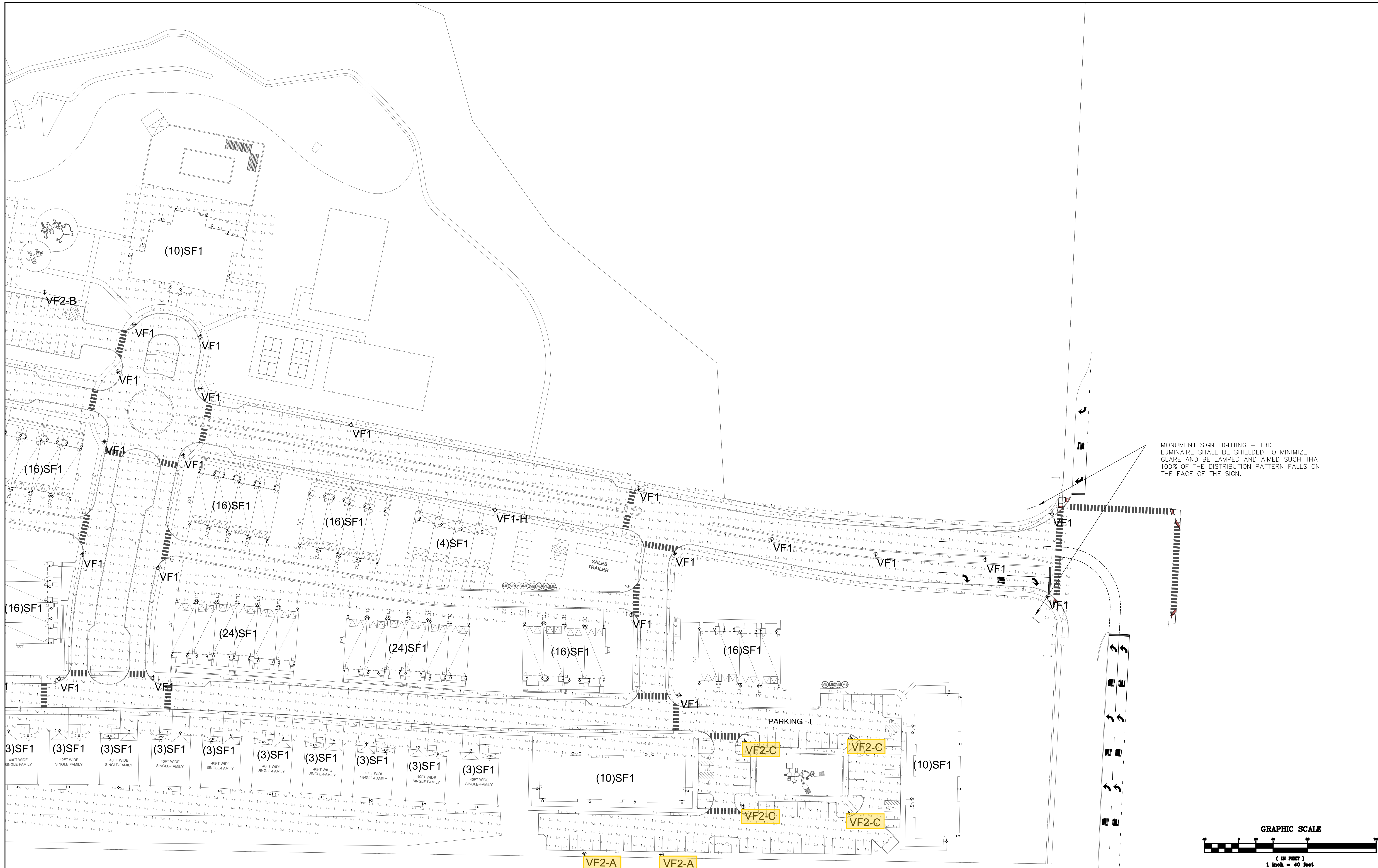
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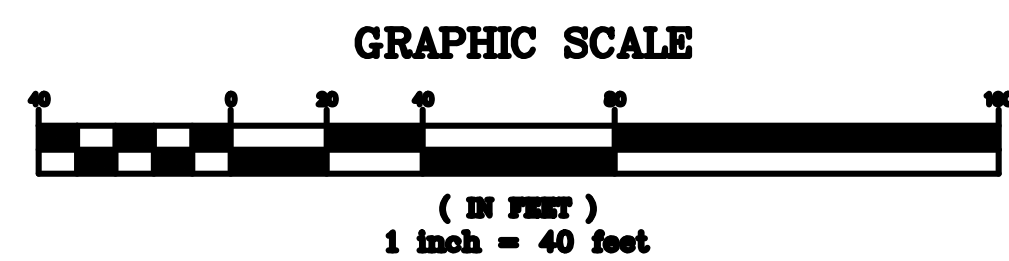
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SHEET No.
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SITE LIGHTING PLAN 12
(MAINTAINED ILLUMINATION LEVELS)
OF
SOUTH SECTION
HOPEWELL PARC
SITUATED IN

HOPEWELL TOWNSHIP
DRAWN BY JR
DATE 12/16/20
CHECKED BY CS
DATE 12/16/20

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TYPE	MANUFACTURER	CATALOG NUMBER	MOUNTING	VOLTAGE	LAMP WATTS	LAMP TYPE	DESCRIPTION
SD1	BEGA (OR EQUAL)	33 224-K27-FINISH19543	SURFACE 8" AFF	TBD	3.9W	LED 2700K 80+ CRI	LED WALL MOUNTED AREA LIGHT, FULL CUT-OFF WITH WIDE-SPREAD DISTRIBUTION, DIFFUSED LENS FOR GLARE CONTROL, 391 DELIVERED LUMENS, LUMINAIRE CONTROLLED VIA REMOTE PHOTOCELL FOR DUSK-TO-DAWN OPERATION.
SF1	GENERATION LIGHTING (OR EQUAL)	8462DEN3-44	SURFACE 8" AFF	120	10W MAX	LED A19 2700K 80+ CRI	LED WALL SCONCE, FULL CUT-OFF DISTRIBUTION, 800 INITIAL LAMP LUMENS, LUMINAIRE CONTROLLED BY HOMECOMER
VF1	AMERICAN ELECTRIC (OR EQUAL)	ARDCL-P25-27K-R5-FINISH	13' POLE	TBD	52W	LED 2700K 80+ CRI	LED DECORATIVE STREET LUMINAIRE, 13'-0" POLE, FULL CUT-OFF WITH TYPE IV DISTRIBUTION, INTEGRAL PHOTOCELL FOR DUSK-TO-DAWN OPERATION, 5174 DELIVERED LUMENS.
VF1-H	AMERICAN ELECTRIC (OR EQUAL)	ARDCL-P25-27K-R5-FINISH-HSS	13' POLE	TBD	52W	LED 2700K 80+ CRI	SAME AS VF1 EXCEPT WITH HOUSE SIDE SHIELD.
VF2-A	AMERICAN ELECTRIC (OR EQUAL)	AVPCL2-P30-27K-R3-FINISH	20' POLE	TBD	46W	LED 2700K 80+ CRI	LED PARKING LOT LUMINAIRE 20'-0" POLE, FULL CUT-OFF WITH TYPE III DISTRIBUTION, INTEGRAL PHOTOCELL FOR DUSK-TO-DAWN OPERATION, 4667 DELIVERED LUMENS.
VF2-B	AMERICAN ELECTRIC (OR EQUAL)	AVPCL2-P30-27K-R4-FINISH	20' POLE	TBD	46W	LED 2700K 80+ CRI	SAME AS VF2-A EXCEPT WITH TYPE IV DISTRIBUTION
VF2-C	AMERICAN ELECTRIC (OR EQUAL)	AVPCL2-P30-27K-R5-FINISH	20' POLE	TBD	46W	LED 2700K 80+ CRI	SAME AS VF2-A EXCEPT WITH TYPE V DISTRIBUTION

NOTES:
1. ALL LUMINAIRES SHALL MEET ALL HOPEWELL TOWNSHIP LIGHTING ORDINANCE REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, BEING FULL CUT-OFF AND CONTAIN A 2700K COLOR TEMPERATURE. REFER TO ORDINANCE FOR ADDITIONAL INFORMATION.
2. BECAUSE THIS IS A RESIDENTIAL DEVELOPMENT WITH 24-HOUR ACCESS ALL STREET AND PARKING LOT LIGHTING SHALL REMAIN ON FROM DUSK-TO-DAWN

CALCULATION SUMMARY (INITIAL)							
LABEL	LLF	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PARKING AREAS							
PARKING - A	1.0	FC	0.85	2.1	0.1	8.5	21.0
PARKING - B	1.0	FC	0.64	2.3	0.1	6.4	23.0
PARKING - C	1.0	FC	0.71	2.0	0.1	7.1	20
PARKING - D	1.0	FC	0.9	2.2	0.1	9.0	22.0
PARKING - E	1.0	FC	1.14	2.3	0.1	11.4	23.0
PARKING - F1	1.0	FC	0.57	2.0	0.1	5.7	20.0
PARKING - F2	1.0	FC	0.50	1.7	0.1	5.0	17.0
PARKING - F3	1.0	FC	0.45	1.6	0.1	4.5	16.0
PARKING - G	1.0	FC	0.5	2.3	0.1	5.0	23.0
PARKING - H	1.0	FC	0.92	2.2	0.1	9.2	22.0
PARKING - I	1.0	FC	0.52	2.0	0.1	5.2	20.0
ROADWAYS							
ROADWAY - NORTH	1.0	FC	0.31	2.3	0.0	N/A	N/A
ROADWAY - SOUTH	1.0	FC	0.33	2.3	0.0	N/A	N/A

CALCULATION SUMMARY (MAINTAINED)							
LABEL	LLF	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PARKING AREAS							
PARKING - A	0.9	FC	0.76	1.9	0.1	7.6	19.0
PARKING - B	0.9	FC	0.58	2.0	0.1	5.8	20.0
PARKING - C	0.9	FC	0.64	1.8	0.1	6.4	18.0
PARKING - D	0.9	FC	0.81	2.0	0.1	8.1	20.0
PARKING - E	0.9	FC	1.02	2.0	0.1	10.2	20.0
PARKING - F1	0.9	FC	0.51	1.8	0.1	5.1	18.0
PARKING - F2	0.9	FC	0.45	1.5	0.1	4.5	15.0
PARKING - F3	0.9	FC	0.41	1.4	0.1	4.1	14.0
PARKING - G	0.9	FC	0.45	2.0	0.1	4.5	20.0
PARKING - H	0.9	FC	0.84	2.0	0.1	8.4	20.0
PARKING - I	0.9	FC	0.47	1.8	0.1	4.7	18.0
ROADWAYS							
ROADWAY - NORTH	0.9	FC	0.28	2.0	0.0	N/A	N/A
ROADWAY - SOUTH	0.9	FC	0.28	2.0	0.0	N/A	N/A

BEAM
ILLUMINATING ARCHITECTURE

FIXTURE
TYPE **SD1**

BEAM
ILLUMINATING ARCHITECTURE

FIXTURE
TYPE **SD1**

BEAM
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FIXTURE
TYPE **SD1**

BEAM
ILLUMINATING ARCHITECTURE

FIXTURE
TYPE **SF1**

LED wall luminaire - directed light

BEGA

Application
This luminaire features flush mounted glass which distributes the light onto the installation surface uniformly with a wide spread light distribution. Luminaires can be mounted with the light output upwards or downwards.

Materials
Luminaire housing constructed of die-cast marine grade, copper free (0.3% copper content) A306 (0 aluminum alloy)
Clear safety glass with crystal texture
High temperature silicone gasket
Mechanically captive stainless steel fasteners
NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Weight: 3.1 lbs

Electrical
Operating voltage: 120-277VAC
Minimum start temperature: 32°F
LED module wattage: 3.9W
System wattage: 10W
Color rendering index: 90
Luminaire lumens: 391 lumens (3000K)
Lumens at 30°: 1070
Lumens at 15°: 1710
Lumens at 0°: 3200
LED color temperature:
□ 4000K - Product number = K4
□ 5000K - Product number = K5
□ 6000K - Product number = K6
□ 6500K - Product number = K7
BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.
Available colors: □ Black (BLK) □ White (WHT) □ RAL: □ Bronze (BRZ) □ Silver (SLV) □ OUS:

Type: BEGA Product:
Project:
Modified:

LED wall luminaire - directed light

3.9W 51% 27% 19543

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 654-0533 info@bega-us.com
This document contains BEGA's proprietary information and trade secrets. Luminaires shown in this document are subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com
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OUTDOOR PHOTOMETRIC REPORT
CATALOG: 33224K27

Manufacturer: BECA Converted by LUMCat V 22.04.2013 / 23.02.2018
Description: 33224K27
Lamp Catalog: LED 3.9W 455 lm
Lamp: LED 3.9W
Lamp Output: Total Luminaire Lumens: 454.7, absolute photometry *
Input Wattage: 6
Luminous Opening: Circular (Dia: 4.68")
Max Cd: 175.3 at Horizontal: 90°, Vertical: 15°
Roadway Class: VERY SHORT, TYPE II

No Photo Available

Isoluminance

Polar Candela
80° 120° 160° 180°

Roadway Summary
Distribution: TYPE II, VERY SHORT
Max Cd, 90 Deg Vert: 0.000
Max Cd, 80 to <90 Deg: 17.5
Lumens % Lamp
Downward Street Side: 227.4 50%
Downward House Side: 227.4 50%
Downward Total: 454.7 100%
Upward Street Side: 0.000 0%
Upward House Side: 0.000 0%
Upward Total: 0.000 0%
Total Lumens: 454.7 100%

LCS Table
BUG Rating
Forward Light
Low(0-30): 66.6 14.7%
Medium(30-60): 120.7 26.5%
High(60-80): 37.5 8.3%
Very High(80-90): 2.5 0.6%
Back Light
Low(0-30): 66.6 14.7%
Medium(30-60): 120.7 26.5%
High(60-80): 37.5 8.3%
Very High(80-90): 2.5 0.6%
Uplight
Low(90-100): 0.000 0%
High(100-180): 0.000 0%
Trapped Light: 0.000 0%

Visual Photometric Tool
This Photometric report has been generated using methods recommended by the IESNA. Calculations are based on Photometric data provided by the manufacturer, and the accuracy of this Photometric report is dependent on the accuracy of the data provided. End-user environment and application (including, but not limited to, voltage variation and dirt accumulation) can cause actual Photometric performance to differ from the performance calculated using the data provided by the manufacturer. This report is provided without warranty as to accuracy, completeness, reliability or otherwise. In no event will Acuity Brands Lighting be responsible for any loss resulting from any use of the report.

*Test based on absolute photometry where lamp lumens=lumens total.
**Cutoff Classification and efficiency cannot be properly calculated for absolute photometry.

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Visual Photometric Tool

PAGE 1 OF 4

OUTDOOR PHOTOMETRIC REPORT
CATALOG: 33224K27

Zonal Lumen Summary
Zone Lumens % Luminaire
0-30 133.2 29.3%
0-40 217.2 47.8%
0-60 374.6 82.4%
60-90 80.1 17.6%
70-100 29.5 6.5%
90-120 0.000 0%
0-90 454.7 100%
90-180 0.000 0%
0-180 454.7 100%

Lumens Per Zone
Zone Lumens % Total Zone Lumens % Total
0-10 15.8 3.5% 90-100 0.000 0%
10-20 46.5 10.2% 100-110 0.000 0%
20-30 70.9 15.6% 110-120 0.000 0%
30-40 84.0 18.5% 120-130 0.000 0%
40-50 84.6 18.6% 130-140 0.000 0%
50-60 72.8 16.0% 140-150 0.000 0%
60-70 50.6 11.1% 150-160 0.000 0%
70-80 24.4 5.4% 160-170 0.000 0%
80-90 5.0 1.1% 170-180 0.000 0%

Roadway Summary
Distribution: TYPE II, VERY SHORT
Max Cd, 90 Deg Vert: 0.000
Max Cd, 80 to <90 Deg: 17.5
Lumens % Lamp
Downward Street Side: 227.4 50%
Downward House Side: 227.4 50%
Downward Total: 454.7 100%
Upward Street Side: 0.000 0%
Upward House Side: 0.000 0%
Upward Total: 0.000 0%
Total Lumens: 454.7 100%

LCS Table
BUG Rating
Forward Light
Low(0-30): 66.6 14.7%
Medium(30-60): 120.7 26.5%
High(60-80): 37.5 8.3%
Very High(80-90): 2.5 0.6%
Back Light
Low(0-30): 66.6 14.7%
Medium(30-60): 120.7 26.5%
High(60-80): 37.5 8.3%
Very High(80-90): 2.5 0.6%
Uplight
Low(90-100): 0.000 0%
High(100-180): 0.000 0%
Trapped Light: 0.000 0%

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Visual Photometric Tool

PAGE 2 OF 4

GENERATION LIGHTING

8462DEN3-44: One Light Outdoor Wall Lantern

Dimensions:
Width: 6.34"
Height: 14.12"
Weight: 3.2 lbs

Extends: 7.12"
Wire: 6.1/2" (color:Black/White)
Mounting Proc: Cap Nuts
Connection: Mounted To Box
Lumens: 800

Bulbs:
1 - LED Medium A19 9.3w Max, 120v - included

Features:
• ENERGY STAR® Qualified
• Dark sky friendly. Designed to emit no light above the 90° horizontal plane. Photometry unavailable.
• LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
• Meets Title 24 energy efficiency standards
• Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.

Material List:
1 Body - Brass - Unfinished

Safety Listing:
Safety Listed for Wet Locations
Safety Listed for Wet Locations

Instruction Sheets:
English (HC-231)
French (F-005)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Panel Glass	Clear Seeded		4									
Panel Aluminum	White		4									

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Back Plate	6	4 3/4			6	8 1/2

Replacement Bulb Data:

Product #	Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
915025	Frosted	A19	Medium	9.3	9.3	120v	15000	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Frt. Class	UPS Ship
Individual	8462DEN3-44	70	785652052934	9.5	9.5	18	0.34	5.35	125	Yes
Box Pallet		70		48	40	72	80	462.5		No

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BEAM, Ltd.
2220 Mount Carmel Avenue
Glenside, PA 19038
T. 215.508.0900
www.beamltd.com

1. FINAL SITE PLAN SUBMISSION 05/03/24 JB CS
1. PRELIMINARY/FINAL SITE PLAN SUBMISSION 12/16/20 JR CS
REV. DESCRIPTION DATE DFT.BY CKD.BY

CHRISTINA SPANGLER
LIGHTING CERTIFIED BY NCQLP
EXPIRATION 12.31.21

van note-harvey associates, inc.
consulting engineers, planners & land surveyors
103 College Road East • Princeton, NJ 08540 • 609-987-2323
211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600
www.vannoteharvey.com Certificate of Authorization No. 3645021106

LIGHTING DETAILS
OF
HOPEWELL PARC
SITUATED IN

HOPEWELL TOWNSHIP
SCALE 1"= 40'
DRAWN BY JR
DATE 12/16/20
CHECKED BY CS
DATE 12/16/20

MERCER CO., N.J.
DECEMBER 16, 2020

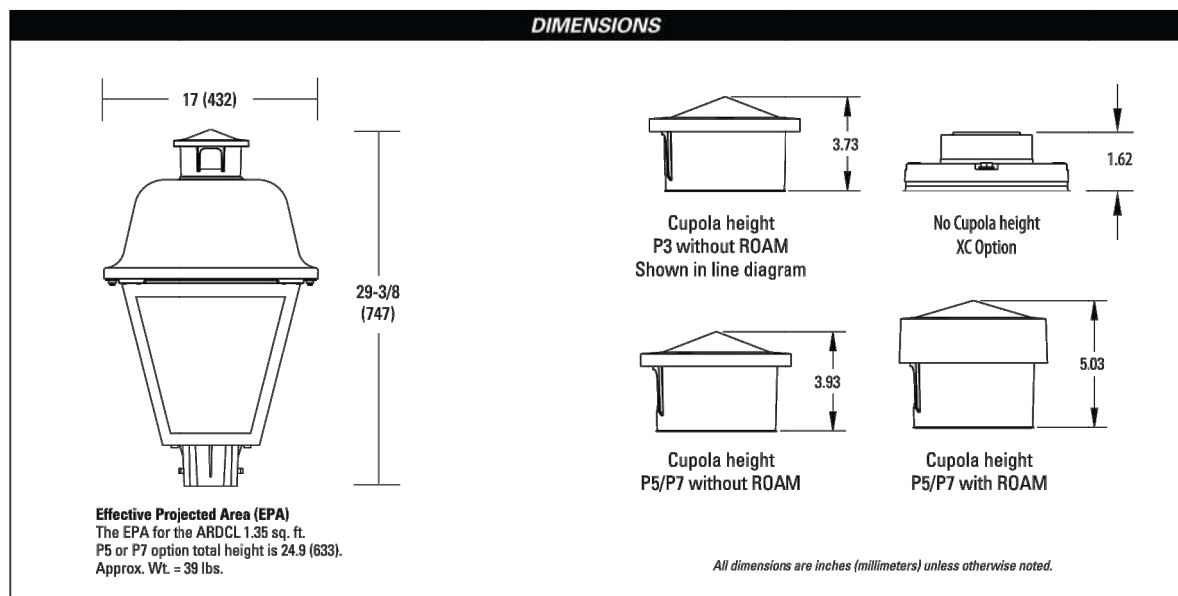
FIELD BK PAGE ORDER No. 45051-400-21 FILE No. 203-A-1 SHEET No. LG3.01

American Revolution Deluxe Full Cutoff LED Series ARDCL

PRODUCT OVERVIEW



Applications:
Streetscapes
Walkways
Parkways
Parks





DIMENSIONS

31-3/4 (806)

Cupola height
P3 without RGAM
Shown in line diagram

2.73

No Cupola height
XC Option

1.62

Cupola height
P5/P7 without RGAM

3.03

Cupola height
P5/P7 with RGAM

9.03

AEL American Electric Lighting
AEL Headquarters, 3825 Columbus Road, Granville, OH 43033
www.americanelectriclighting.com
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Warranty Five-year limited warranty. Complete warranty terms located at www.acuitybrands.com/support/customer-support/terms-and-conditions
Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions. Specifications subject to change without notice.

Please contact your sales representative for the latest product information

RTS

[illegible]

OUTDOOR POLE-RTS



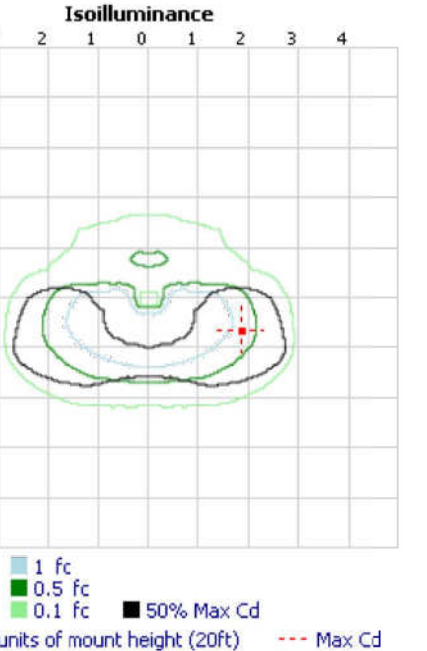
* Test based on absolute photometry where lamp lumens=lumens total.
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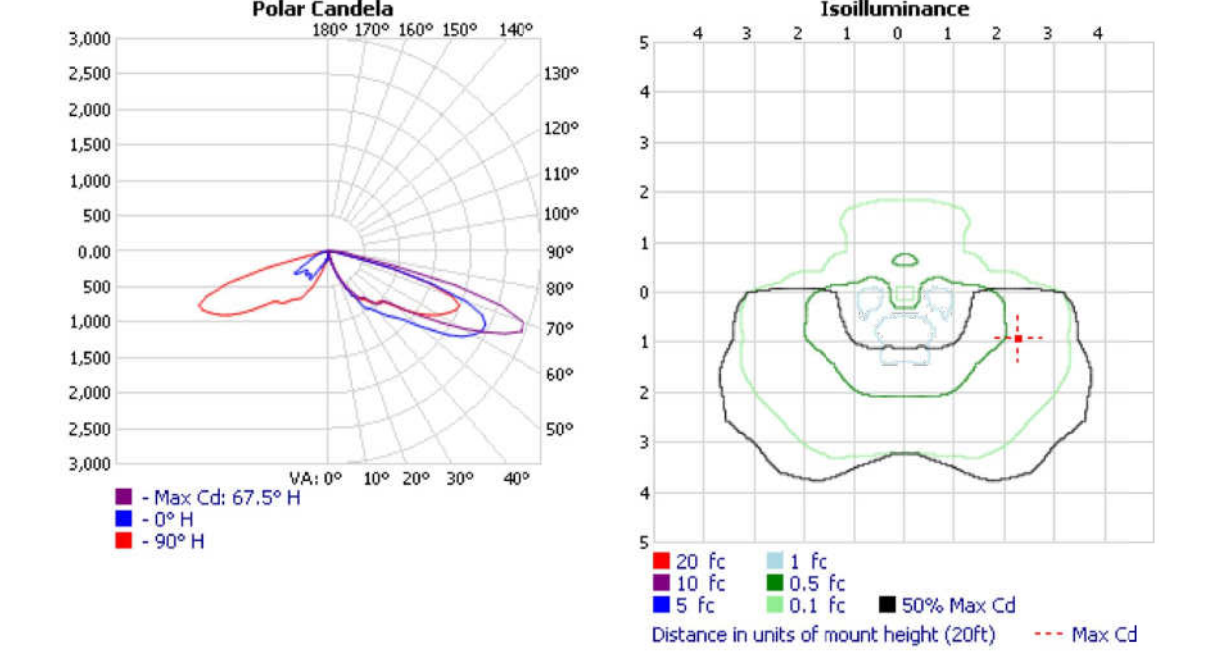
ISSUE 1628137933
 VISUAL PHOTOMETRIC TOOL

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VISUAL PHOTOMETRIC TOOL

LCS Table			
BUG Rating		B1 - U0 - G1	
Forward Light	Lumens	Lumens	%
Low(0-30):	237.1		5.1%
Medium(30-60):	2,110.4		45.2%
High(60-80):	1,139.6		24.4%
Very High(80-90):	52.0		1.1%
Back Light			
Low(0-30):	91.7		2%
Medium(30-60):	629.4		13.5%
High(60-80):	354.5		7.6%
Very High(80-90):	52.0		1.1%
Uplight			
Low(90-100):	0.000		0%
High(100-180):	0.000		0%
Trapped Light:		0.3	0%

PUBLISH
PAGE 2 OF 4



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