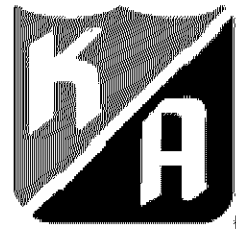


CASE #PL2020-191

On-Site Lighting
& Survey, LLC

1111 HIGHWAY 25 NORTH
SUITE 201
BUFFALO, MN 55313
PH: 763.684.1548
FAX: 763.682.9048



KRAUS-ANDERSON

VALLEY WEST
CENTER
NEW END CAP

10520-10608 FRANCE AVENUE
BLOOMINGTON, MN 55431

RICHARD L.J. KLUZAK
PROFESSIONAL ENGINEER

715 FLORIDA AVENUE SOUTH
SUITE 310
GOLDEN VALLEY, MN 55426

PH: 763.270.5499

I hereby certify that this plan, specification,
or report was prepared by me or under my
direct supervision, and that I am a duly
Licensed Professional Engineer under the
laws of the State of Minnesota.
Printed Name: RICHARD L.J. KLUZAK

Signature:

Date: 12/08/2020 License #: 23463

#	DATE	INIT	DESCRIPTION
1	12.07.2020	ZPN	ADD INITIAL LED PAGES
2	12.08.2020	ZPN	LUMINAIRE SCHEDULE .81
3			
4			
5			
6			
7			
8			
9			

EXISTING
PHOTOMETRIC
PLAN

KA180129

12.04.2020

2

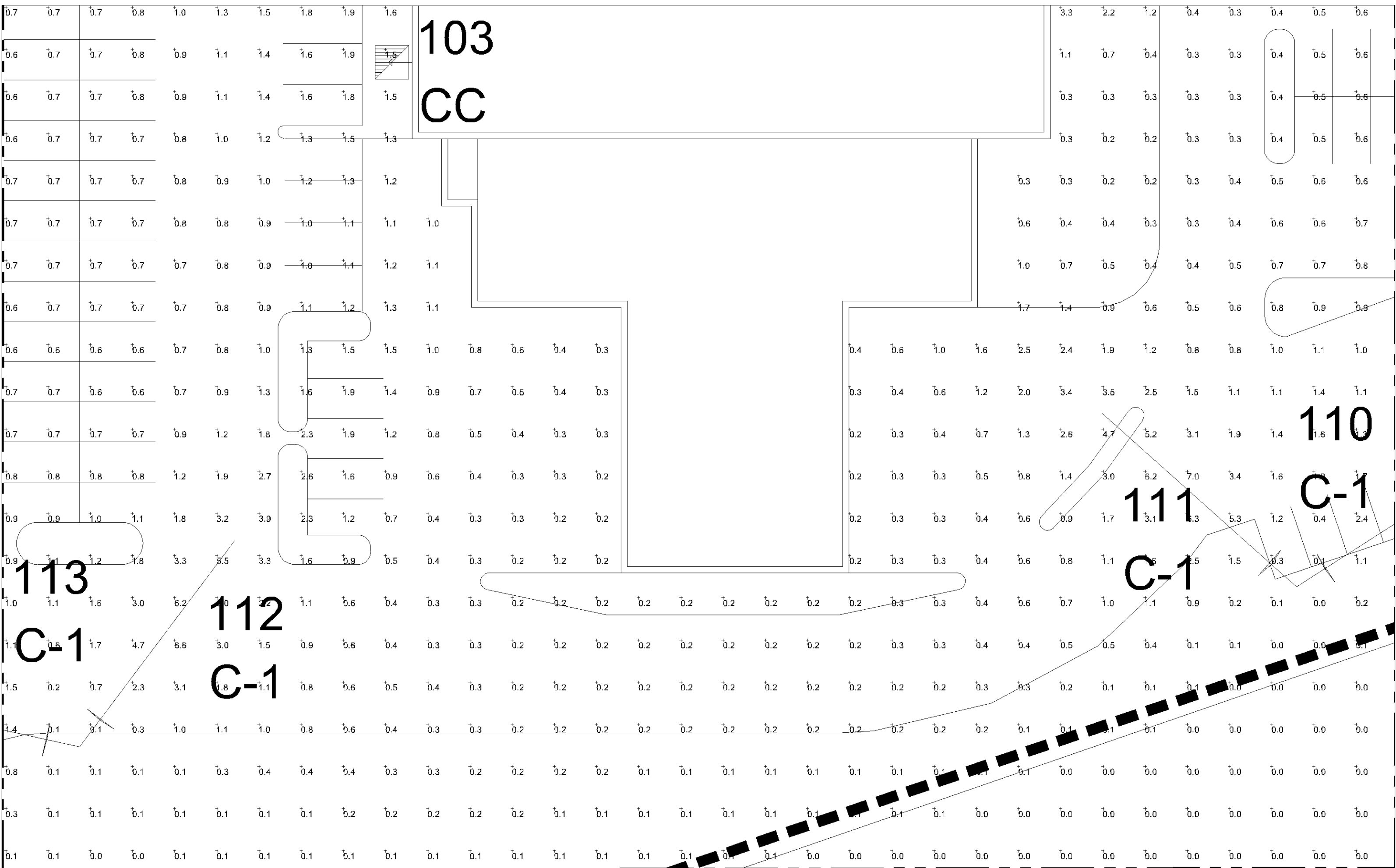
Z.NORDIN

Z.NORDIN

SL1.0

REV #

2



1 EXISTING PHOTOMETRIC PLAN
SCALE: 1"= 20'



Calculation Summary

Label	Avg	Max	Min	Avg/Min	Max/Min
Retail Entrance	13.28	15.4	10.5	1.26	1.47
Parking Redevelopment	3.78	6.0	2.0	1.89	3.00

Luminaire Schedule

Symbol	Qty	Label	Arrangement	TLL	LLF	Description	BUG Rating
	4	C-1	SINGLE	140000	0.450	Existing 1000W HPS Flood 29' Mtg Ht	N.A.
	1	CC	SINGLE	34200	0.650	Existing Fixt 400W MH, 42' Mtg. Ht.	B3-U3-G4

BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS.

THE LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER THE CONTROLLED CONDITIONS UTILIZING CURRENT INDUSTRY STANDARD LAMP DATA. IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS, ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.

FOR ADDITIONAL LIGHTING INFORMATION CONTACT:

**On-Site Lighting
& Survey, LLC**

PH: 763.684.1548

CASE #PL2020-191

LIGHTING PLAN APPROVED



NMJ

12/09/2020

On-Site Lighting
& Survey, LLC

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BUFFALO, MN 55313
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laws of the State of Minnesota.
Printed Name: RICHARD L.J. KLUZAK

Signature:
Digitally signed by Richard L.J. Kluzak
DN: cn=Richard Kluzak, o=On-Site Lighting & Survey, LLC, ou=On-Site Lighting & Survey, LLC, email=richard@on-site-lighting.com
Date: 12/08/2020, License #: 23463

#	DATE	INIT	DESCRIPTION
1	12.07.2020	ZPN	ADD INITIAL LED PAGES
2	12.08.2020	ZPN	LUMINAIRE SCHEDULE .81
3			
4			
5			
6			
7			
8			
9			

LED
PHOTOMETRIC
PLAN

KA180129

12.04.2020

2

Z.NORDIN

Z.NORDIN

SL2.0

REV #:

2

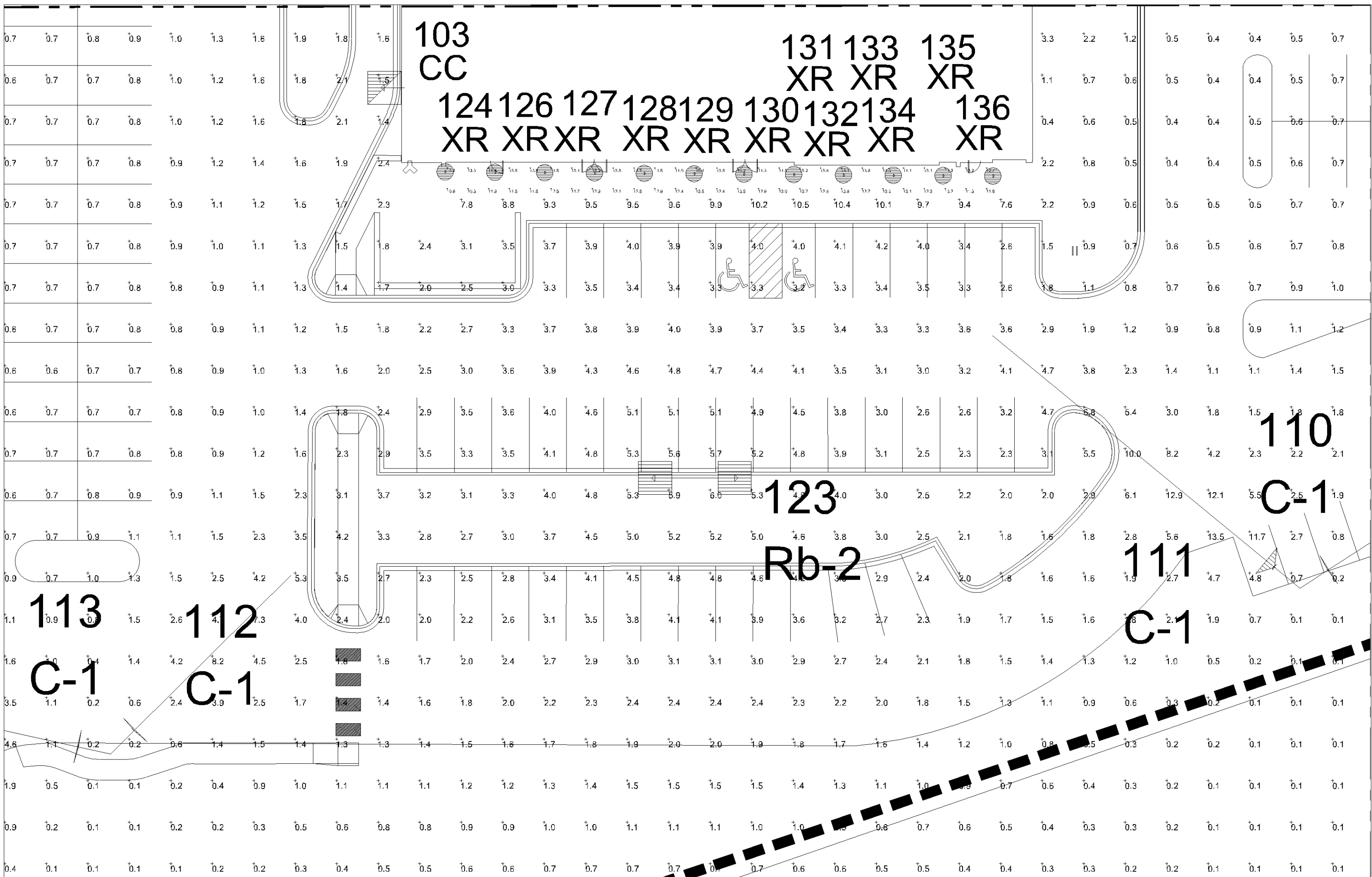
Calculation Summary

Label	Avg	Max	Min	Avg/Min	Max/Min
Retail Entrance	13.28	15.4	10.5	1.26	1.47
Parking Redevelopment	3.78	6.0	2.0	1.89	3.00

BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS.

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FOR ADDITIONAL LIGHTING INFORMATION CONTACT:
**On-Site Lighting
& Survey, LLC**
PH: 763.684.1548



1 LED PHOTOMETRIC PLAN

SCALE: 1"= 20'



Luminaire Schedule

Symbol	Qty	Label	Arrangement	TLL	LLF	Description	BUG Rating
	4	C-1	SINGLE	140000	0.450	Existing 1000W HPS Flood 29' Mtg Ht	N.A.
	1	CC	SINGLE	34200	0.650	Existing Fixt 400W MH, 42' Mtg. Ht.	B3-U3-G4
	1	Rb-2	BACK-BACK	N.A.	0.810	New Base, Pole, Fixt 391W LED T5WQ 29' Mtg Ht (4000K/44347 Lumens/1000mA) Cooper GLEON-AF-07-LED-E1-5WQ	B5-U0-G5
	12	XR	SINGLE	N.A.	0.810	New Recessed Can 35W LED 11'-0 Mtg Ht (4000K/3398 Lumens) Sylvania 72628	B2-U0-G0

CASE #PL2020-191

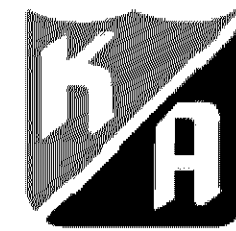
LIGHTING PLAN APPROVED



NMJ
12/09/2020

On-Site Lighting
& Survey, LLC

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2	12.08.2020	ZPN	LUMINAIRE SCHEDULE .81
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8			
9			

INITIAL LED
PHOTOMETRIC
PLAN

KA180129

12.04.2020

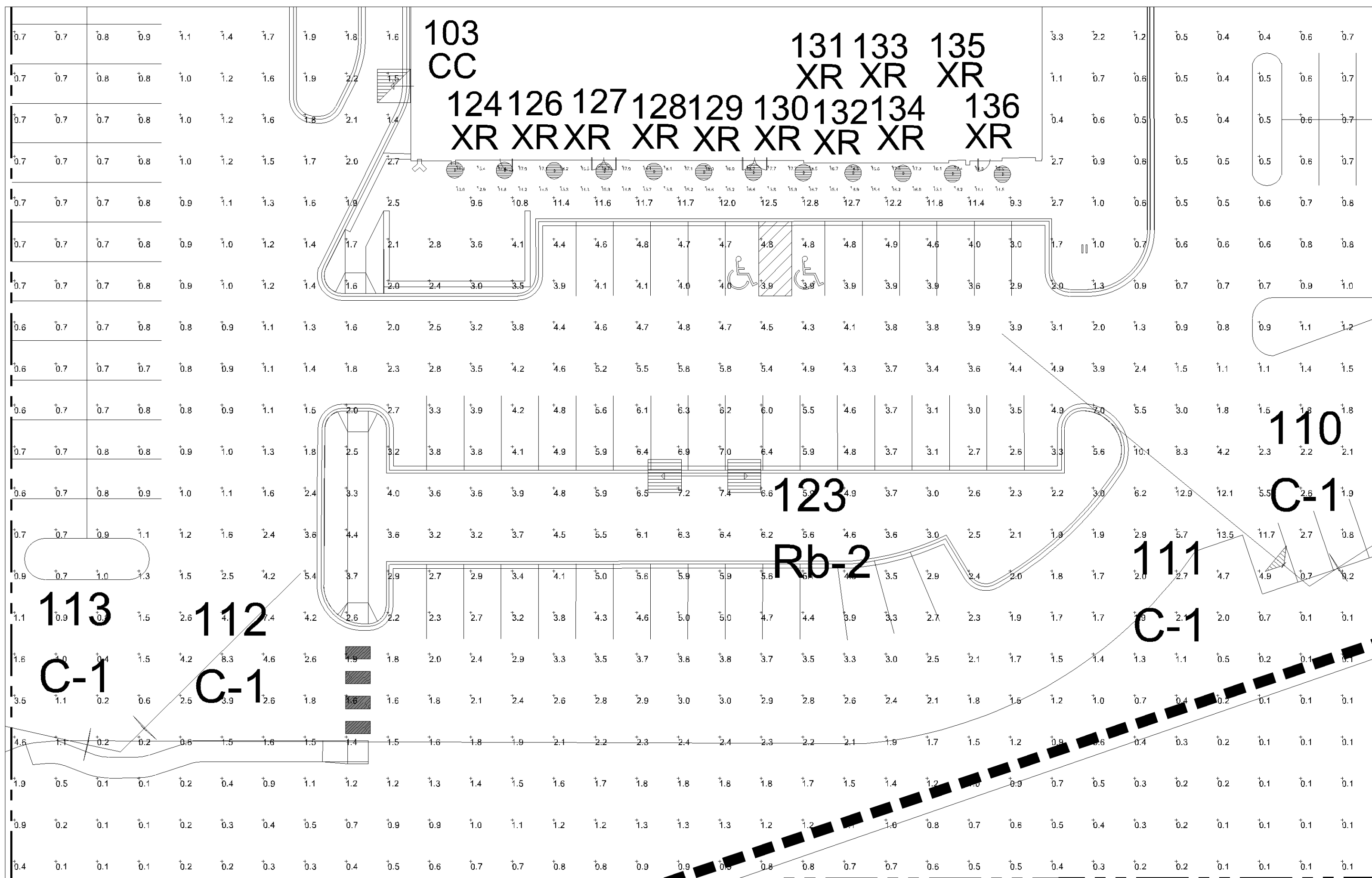
2

Z.NORDIN

Z.NORDIN

SL3.0

1



1 INITIAL LED PHOTOMETRIC PLAN
SCALE: 1"= 20'



Luminaire Schedule						
Symbol	Qty	Label	Arrangement	TLL	LLF	Description
	4	C-1	SINGLE	140000	0.450	Existing 1000W HPS Flood 29' Mtg Ht
	1	CC	SINGLE	34200	0.650	Existing Fixt 400W MH, 42' Mtg. Ht.
	1	Rb-2	BACK-BACK	N.A.	1.000	New Base, Pole, Fixt 391W LED T5WQ 29' Mtg Ht (4000K/44347 Lumens/1000mA) Cooper GLEON-AF-07-LED-E1-5WQ
	12	XR	SINGLE	N.A.	1.000	New Recessed Can 35W LED 11'-0 Mtg Ht (4000K/3398 Lumens) Sylvania 72628
						BUG Rating
						N.A.
						B3-U3-G4
						B5-U0-G5
						B2-U0-G0

Calculation Summary

Label	Avg	Max	Min	Avg/Min	Max/Min
Retail Entrance	16.28	18.9	12.9	1.26	1.47
Parking Redevelopment	4.47	7.4	2.2	2.03	3.36

BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS
SHOWN REPRESENT RECOMMENDED POSITIONS. THE ENGINEER AND/OR ARCHITECT
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