

PL201800021
PL2018-21

BCS 3
Multi-Family
8051 33rd Ave S, Bloomington, MN
55425

Me
Medina Electric, LLC.
22510 State Highway 55
Hamel, MN 55340
Phone 763-478-6828
Fax 763-478-6055

esc
ARCHITECTURE & DESIGN

500 Washington Avenue South, Suite 1080
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prepared by me or under my direct supervision
and that I am a duly licensed engineer
under the laws of the State of Minnesota
Signature Steven M. Young
Typed or Printed Name
16544 1/22/19
License # Date

STEEN
ENGINEERING INC.
763-585-6742
763-585-6757 fax
Email: steen@steeneng.com
5430 Douglas Drive North
Crystal, MN 55429

PERMIT SET
1/22/19

PERMIT SET: 01/22/19

REVISIONS:
No. Description Date

MED201801
PROJECT NUMBER

KEY PLAN
PLAN
NORTH
1

BCS 3 Multi-Family
OVERALL SITE
PHOTOMETRIC PLAN -
INITIAL

E0.2b

1 SiteOverallInitial
1" = 20'-0"

1/23/2019 3:00:37 PM

PL201800021
PL2018-21



1 LEVEL 1 PHOTOMETRICS - INITIAL
1/8" = 1'-0"

Schedule										
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Mounting Height
	LT-U	19	RAB LIGHTING INC.	PRT55, PRT55/D10	FROSTED TRANSLUCENT PLASTIC DIFFUSER, SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK. DIFFUSER FROSTED SIDE IN. 4 WHITE CIRCUIT BOARD EACH WITH 50 LEDs. MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH.	120	53	1	57.2	10'
		8	RAB LIGHTING INC.	PRT105, PRT105/D10	FROSTED TRANSLUCENT PLASTIC DIFFUSER, SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK. DIFFUSER FROSTED SIDE IN. 4 WHITE CIRCUIT BOARD EACH WITH 48 LEDs. MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH.	192	61	1	101.9	10'
	BB	2	Lithonia Lighting	DSKW2 LED 30C 1000 50K T4M MVOLT	DSKW2 LED WITH 3 LIGHT ENGINES, 30 LED's, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC	1	11198	1	109	7'

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
35' From Vehicle Entrance/Exit	+	32.7 fc	34.7 fc	31.6 fc	1.1:1	1.0:1
Level 1 Parking	+	9.5 fc	38.2 fc	3.5 fc	10.9:1	2.7:1
Ped Entrance	+	18.4 fc	18.6 fc	18.1 fc	1.0:1	1.0:1
Ped Entrance	+	16.0 fc	16.4 fc	15.7 fc	1.0:1	1.0:1

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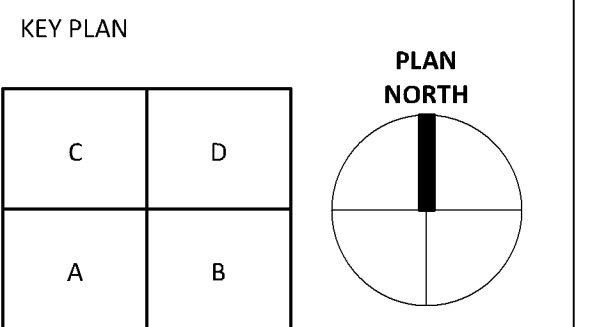
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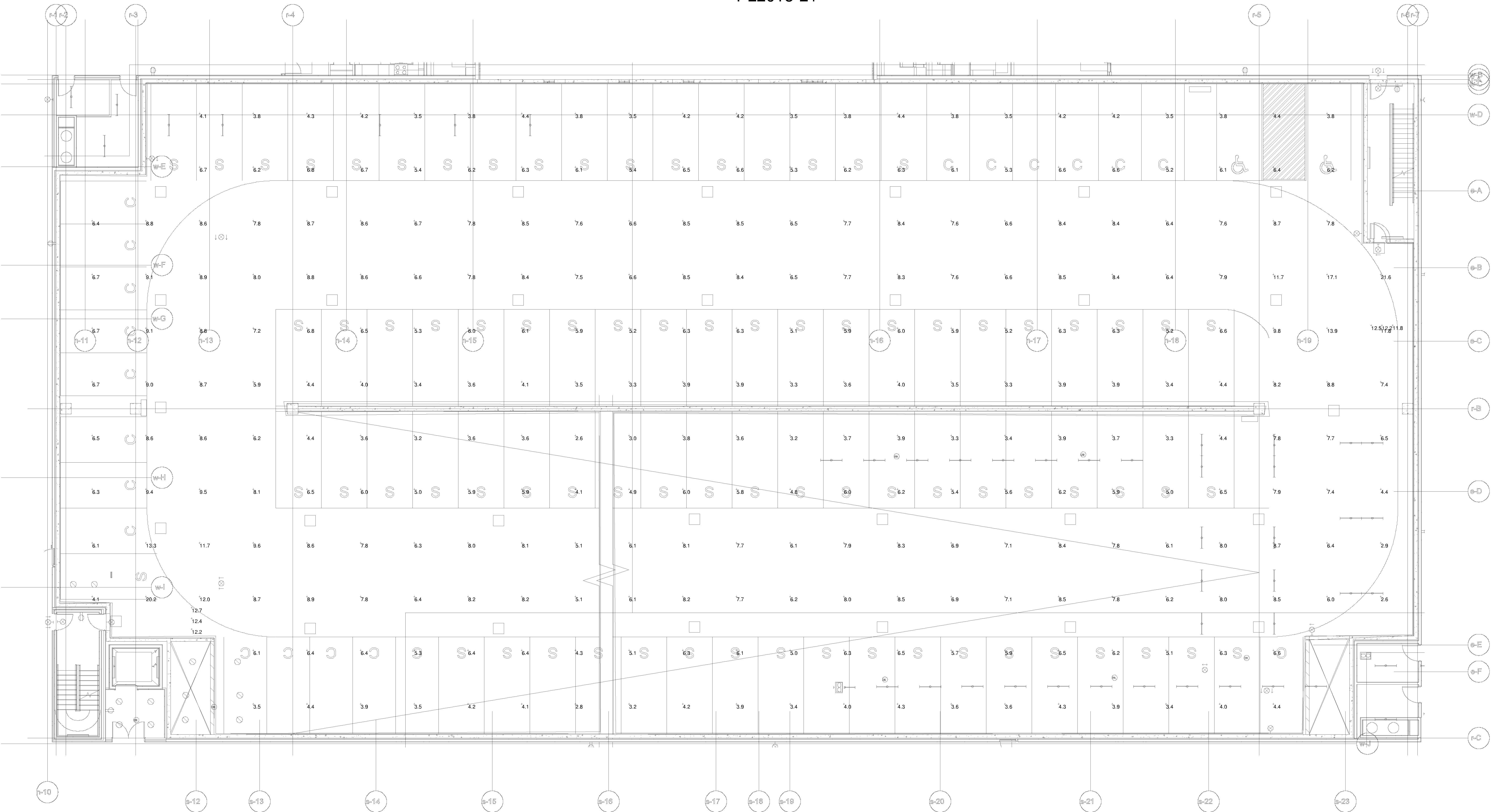
BCS 3 Multi-Family
LEVEL 1 RAMP
PHOTOMETRIC PLAN - INITIAL
E0.3

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Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Level 2	+	6.6 fc	30.2 fc	2.9 fc	10.4:1	2.3:1
Parking	+	14.9 fc	15.1 fc	14.7 fc	1.0:1	1.0:1
Ped Entrance	+	15.3 fc	16.2 fc	14.8 fc	1.1:1	1.0:1

E0.5

PL201800021
PL2018-21



Schedule									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	LT-U	29	RAB LIGHTING INC.	PRT55, PRT55-D10	FROSTED TRANSLUCENT PLASTIC DIFFUSER, SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK; DIFFUSER FROSTED SIDE IN, 4 WHITE CIRCUIT BOARD EACH WITH 30 LEDS, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH.	120	53	1	57.2
	BB	2	Lithonia Lighting	DSXW2 LED 20C 1000 50K T4M 1VOLT	DSXW2 LED WITH 2 LIGHT ENGINES, 20 LED's, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC	1	7646	1	73

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Level 3-5 Parking	+	6.3 fc	21.6 fc	2.6 fc	8.3:1	2.4:1
Ped Entrance	+	12.2 fc	12.5 fc	11.8 fc	1.1:1	1.0:1
Ped Entrance	+	12.4 fc	12.7 fc	12.2 fc	1.0:1	1.0:1

1 LEVEL 3-5 PHOTOMETRICS - INITIAL
1/8" = 1'-0"

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KEY PLAN
PLAN NORTH

BCS 3 Multi-Family
LEVEL 3-5 RAMP
PHOTOMETRIC PLAN - INITIAL

E0.7

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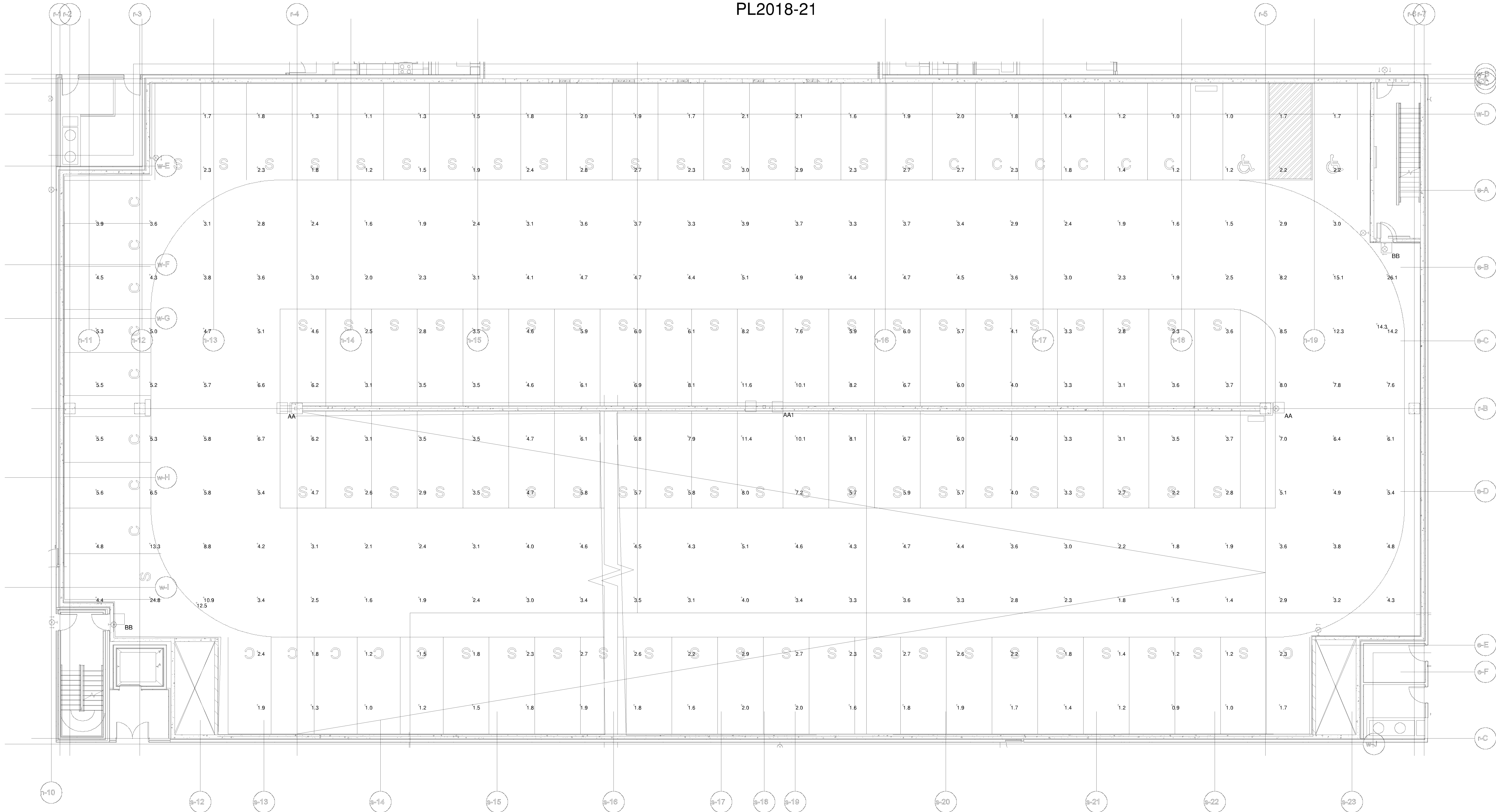
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KEY PLAN
PLAN NORTH
C D
A B

BCS 3 Multi-Family
LEVEL 6 RAMP
PHOTOMETRIC PLAN - INITIAL
E0.9



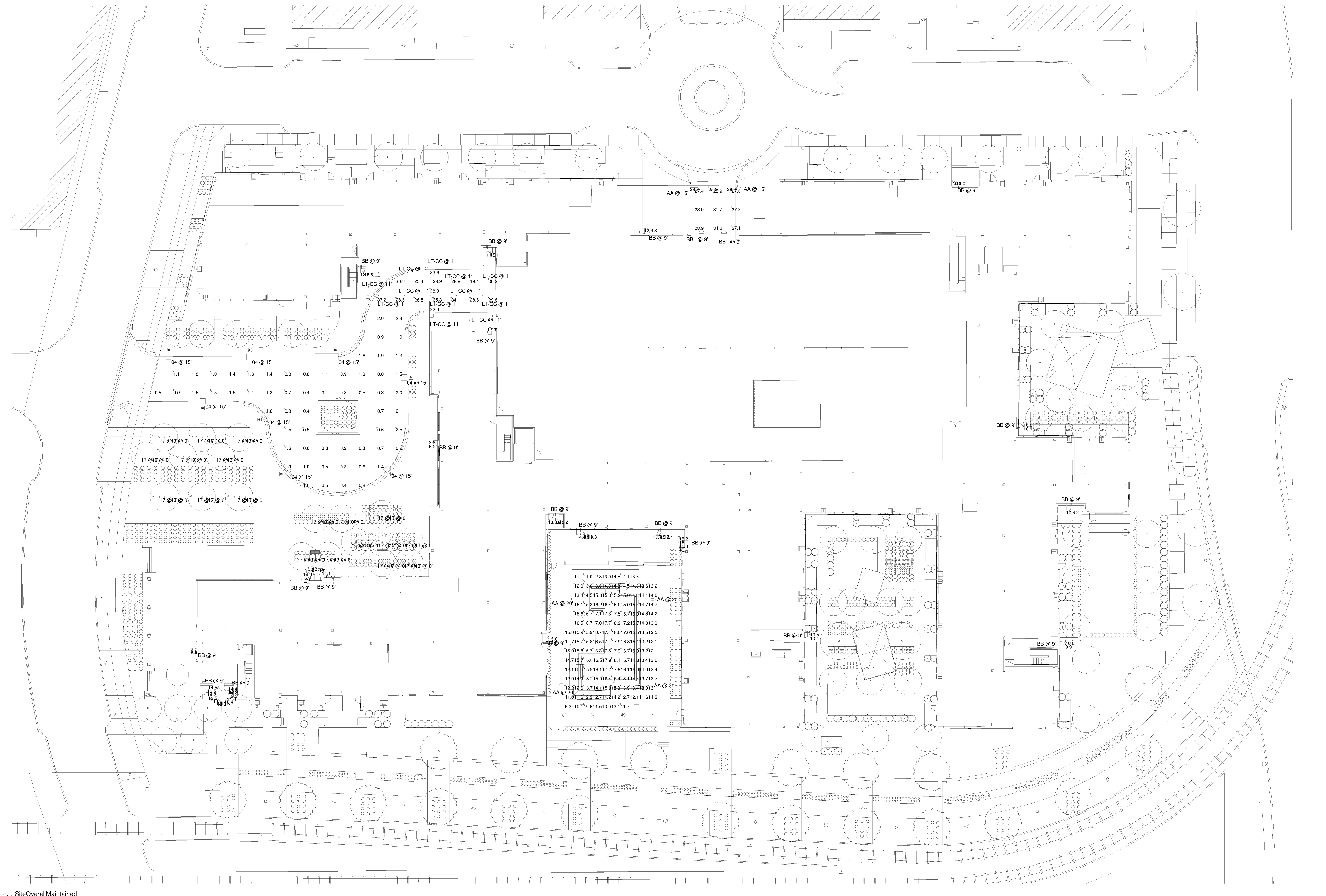
Schedule									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lumens Per Lamp	Light Loss Factor	Wattage	Mounting Height
	AA	2	Lithonia Lighting	DSX2 LED P4 50K TFTM MVOLT	DSX2 LED P4 50K TFTM MVOLT	33810	1	270	25'
	AA1	1	Lithonia Lighting	DSX2 LED P4 50K TFTM MVOLT	DSX2 LED P4 50K TFTM MVOLT	33810	1	540	25'
	BB	2	Lithonia Lighting	DSXW2 LED 30C 1000 50K T4M MVOLT	DSXW2 LED WITH 3 LIGHT ENGINES, 30 LED's, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC	11198	1	109	7'

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Entrance	+	12.5 fc	12.5 fc	12.5 fc	1.0:1	1.0:1
Entrance	+	14.3 fc	14.3 fc	14.3 fc	1.0:1	1.0:1
Level 6	+	4.0 fc	26.1 fc	0.9 fc	29.0:1	4.4:1
Parking	+					

1 LEVEL 6 PHOTOMETRICS - INITIAL
1/8" = 1'-0"

1/23/2019 3:00:45 PM

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1 SiteOverallMaintained
1" = 20'-0"

1/23/2019 3:00:37 PM

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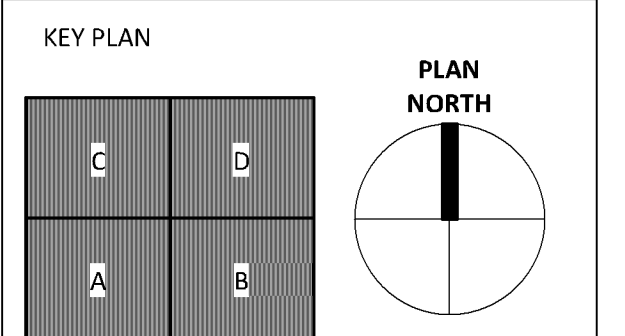
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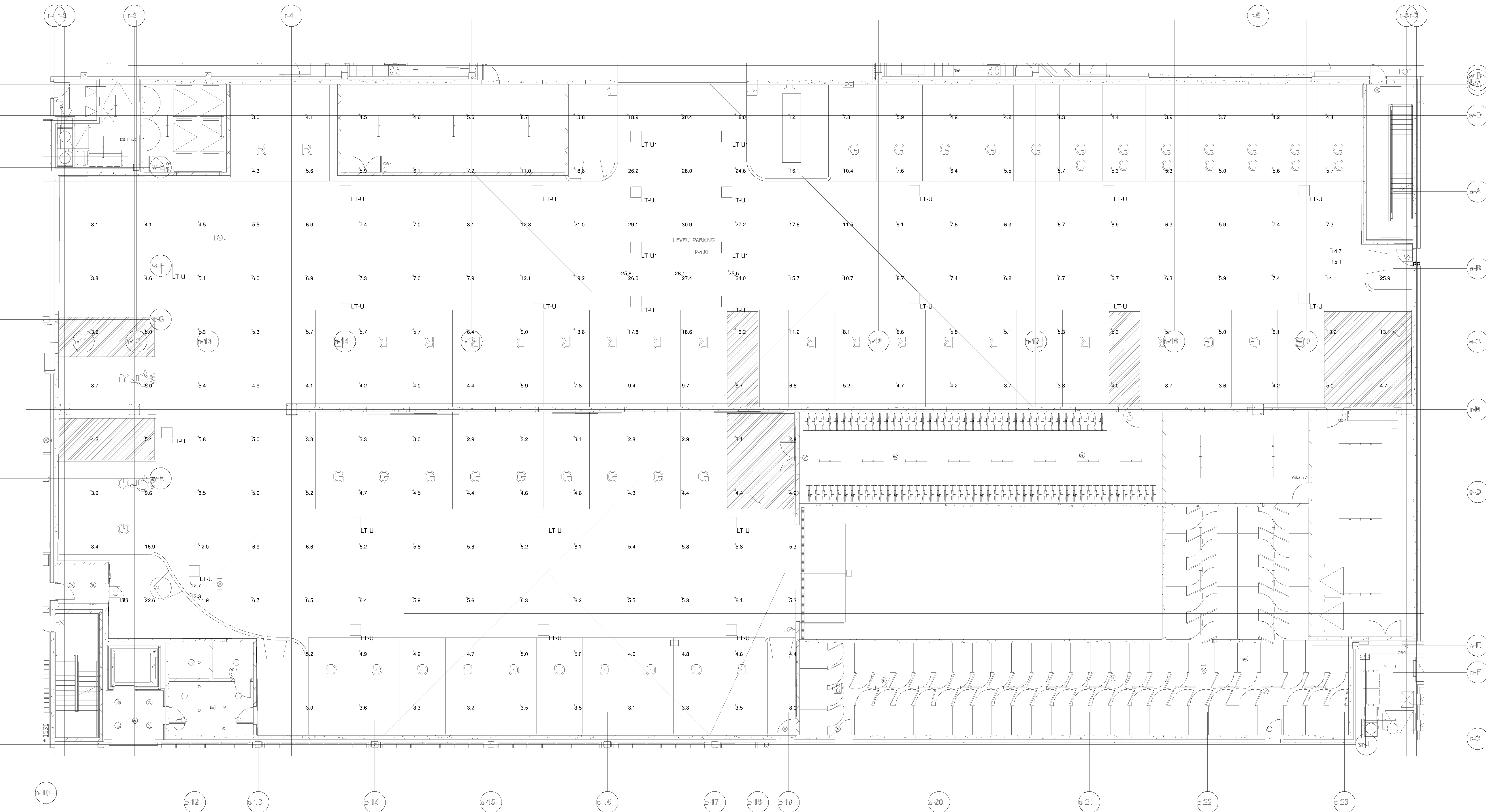
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BCS 3 Multi-Family
OVERALL SITE
PHOTOMETRIC PLAN -
MAINTAINED
E0.2a

PL201800021
PL2018-21



1 LEVEL 1 PHOTOMETRICS - MAINTAINED
1/8" = 1'-0"

Schedule										
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Mounting Height
	LT-U	19	RAB LIGHTING INC.	PRT55, PRT55D10	FROSTED TRANSLUCENT PLASTIC DIFFUSER, SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK. DIFFUSER FROSTED SIDE IN. 4 WHITE CIRCUIT BOARD EACH WITH 50 LENS. MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH.	120	52	0.81	57.2	10'
	LT-U1	8	RAB LIGHTING INC.	PRT105, PRT105D10	FROSTED TRANSLUCENT PLASTIC DIFFUSER, SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK. DIFFUSER FROSTED SIDE IN. 4 WHITE CIRCUIT BOARD EACH WITH 48 LENS. MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH.	192	61	0.81	101.9	10'
	BB	2	Uthoria Lighting	DSKW2 LED 30C 1000 50K T4M MVOLT	DSKW2 LED WITH 3 LIGHT ENGINES, 30 LEDs, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC	1	11198	0.81	109	7'

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
35' From Vehicle Entrance/Exit	+	26.5 fc	28.1 fc	25.6 fc	1.1:1	1.0:1
Level 1 Parking	+	7.7 fc	30.9 fc	2.8 fc	11.0:1	2.8:1
Ped Entrance	+	14.9 fc	15.1 fc	14.7 fc	1.0:1	1.0:1
Ped Entrance	+	13.0 fc	13.3 fc	12.7 fc	1.0:1	1.0:1

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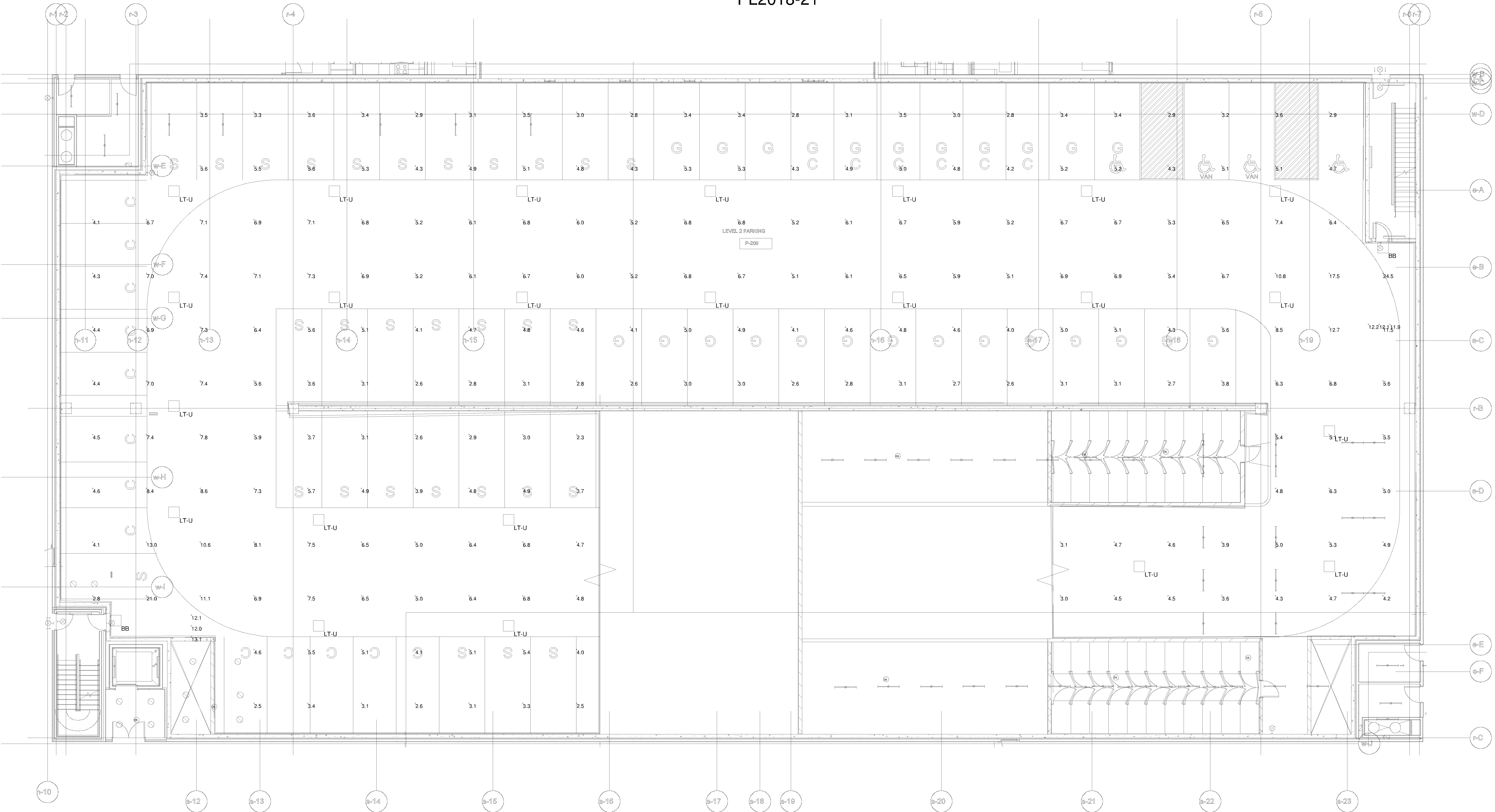
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MED201801
PROJECT NUMBER

KEY PLAN

BCS 3 Multi-Family
LEVEL 1 RAMP
PHOTOMETRIC PLAN - MAINTAINED
E0.4

PL201800021
PL2018-21



Schedule										
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Mounting Height
	LT-U	23	RAB LIGHTING INC.	PRT55, PRT55/D10	FROSTED TRANSLUCENT PLASTIC DIFFUSER, SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK. DIFFUSER FROSTED SIDE IN. 4 WHITE CIRCUIT BOARD EACH WITH 30 LEDS. MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH.	120	53	0.81	57.2	9'
	BB	2	Lithonia Lighting	DSXW2 LED 30C 1000 50K T4M MVOLT	DSXW2 LED WITH 3 LIGHT ENGINES, 30 LED'S, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC	1	11198	0.81	109	7'

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Level 2 Parking	+	5.3 fc	24.5 fc	2.3 fc	10.7:1	2.3:1
Ped Entrance	+	12.1 fc	12.2 fc	11.9 fc	1.0:1	1.0:1
Ped Entrance	+	12.4 fc	13.1 fc	12.0 fc	1.1:1	1.0:1

1 LEVEL 2 PHOTOMETRICS - MAINTAINED
1/8" = 1'-0"

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KEY PLAN

BCS 3 Multi-Family
LEVEL 2 RAMP
PHOTOMETRIC PLAN - MAINTAINED
E0.6

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Level 3-5 Parking	+	5.1 fc	17.5 fc	2.1 fc	8.3:1	2.4:1
Ped Entrance	+	9.8 fc	10.1 fc	9.6 fc	1.1:1	1.0:1
Ped Entrance	+	10.1 fc	10.3 fc	9.9 fc	1.0:1	1.0:1

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E0.8

Architectural floor plan of a large rectangular building, labeled PL2018-21. The plan shows a central corridor, multiple rooms, and a large open area. Dimensions are provided for various sections and rooms. The grid is labeled with letters A through C and numbers 1 through 23. The title "PL2018-21" is at the top center.

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Entrance	+	10.1 fc	10.1 fc	10.1 fc	1.0:1	1.0:1
Entrance Level 6	+	11.5 fc	11.5 fc	11.5 fc	1.0:1	1.0:1
Parking	+	3.2 fc	21.1 fc	0.8 fc	26.4:1	4.0:1

E0.10

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0633 info@bega-us.com
Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change without notice.
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Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	04	8	BEGA Converted by LORCAE V 01.03.2017 / H.R.	88 977 K3		LED 19.2W	1	2352	0.81	23
	17	38	BEGA Converted by LORCAE V 19.02.2015 / 29.08.2017	77752		LED 7.2W	1	411	0.81	10
	AA	6	Lithonia Lighting	DSX2 LED P4 50K T1FM MVOLT	DSX2 LED P4 50K T1FM MVOLT	LED	1	33810	0.81	270
	BB		Lithonia Lighting	DSXW2 LED 20C 1000 50K T4M MVOLT	DSXW2 LED with 2 LIGHT ENGINES, 20 LED's, 1000mA DRIVER, 500K LED, TYPE 4 MEDIUM GPFC	LED	1	7646	0.81	73
	BB1	2	Lithonia Lighting	DSXW2 LED 30C 1000 50K T4M MVOLT	DSXW2 LED with 3 LIGHT ENGINES, 30 LED's, 1000mA DRIVER, 500K LED, TYPE 4 MEDIUM GPFC	LED	1	11196	0.81	109
	LT-CC	12	BEACON	CLO-24L-55-447-5X5-UNV	Recessed Canopy with NEEMA Type 5 Optical	24- Core 4000K LEDs	1	6207	0.81	54.4

Scenarios - MAINTAINED						
Description	Symbol	Avg	Max	Max/Mn	Avg/Mn	
Door A		15.8%	18.6%	1.20	1.41	1.21
Door B		11.3%	15.5%	1.16	1.01	1.01
Door C		13.6%	12.8%	1.24	1.04	1.01
Door D		10.1%	10.5%	1.06	1.01	1.01
Door E		10.2%	10.2%	1.01	1.01	1.01
Door F		10.3%	10.3%	1.02	1.01	1.01
Door G		9.9%	10.0%	0.99%	1.01	1.01
Door H		10.4%	10.5%	1.04%	1.01	1.01
Door I		16.3%	16.4%	1.06%	1.01	1.01
Door J		17.4%	17.6%	1.17%	1.01	1.01
Door K		14.7%	14.8%	1.43%	1.01	1.01
Door L		10.4%	10.8%	1.02%	1.11	1.11
Door M		14.5%	14.8%	1.42%	1.01	1.01
Door N - Retail		12.6%	16.5%	1.62%	1.61	1.29
Door O - Retail		9.8%	9.9%	1.06%	1.01	1.01
Door P - Retail		13.7%	16.9%	1.70%	1.61	1.31
Door Q - Main Bldg		8.6%	8.6%	0.85%	1.01	1.01
Door R - Main Bldg		10.4%	11.0%	1.06%	1.11	1.11
Door S		14.9%	15.0%	1.49%	1.01	1.01
Garage Entrance North		26.5%	26.9%	26.9%	1.01	1.01
Garage Entrance West		29.2%	29.3%	29.0%	1.51	1.31
Garage North Entrance		26.7%	26.4%	26.9%	1.31	1.11
Park Deck - 5th		14.0%	17.7%	1.93%	1.91	1.91
Pool Deck - 5th		16.1%	18.2%	1.74%	1.71	1.71
Pool Deck - 5th		6.1%	6.2%	0.86%	1.01	30.51

16544 1/22/19
License # Date

Descriptor	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Door A		18.1%	21.9%	14.4%	1.51	1.31
Door B		13.9%	14.1%	13.7%	1.01	1.01
Door C		15.6%	14.8%	16.4%	1.01	1.01
Door D		12.4%	12.5%	12.3%	1.01	1.01
Door E		12.6%	12.6%	12.5%	1.01	1.01
Door F		12.8%	12.8%	12.7%	1.01	1.01
Door G		13.3%	13.3%	13.2%	1.01	1.01
Door H		12.9%	13.0%	12.8%	1.01	1.01
Door I		20.1%	20.3%	19.9%	1.01	1.01
Door J		21.5%	21.7%	21.2%	1.01	1.01
Door K		18.1%	18.3%	17.6%	1.01	1.01
Door L		12.7%	12.3%	12.5%	1.11	1.01
Door M		16.2%	16.7%	15.5%	1.01	1.01
Door N - Portal		10.7%	10.8%	10.5%	1.01	1.01
Door O		8.7%	8.7%	8.6%	1.01	1.01
Door P - Hall		17.1%	20.9%	15.0%	1.41	1.13
Door Q - Main Bldg		16.7%	17.0%	16.4%	1.01	1.01
Door R		14.3%	14.5%	14.0%	1.11	1.11
Door S		18.5%	18.5%	18.5%	1.01	1.01
Garage Entrance North 256		32.6%	33.1%	31.8%	1.01	1.01
Garage Entrance West 256		34.8%	35.1%	32.7%	1.31	1.31
Garage Entrance East		35.4%	40.2%	30.0%	1.31	1.11
Pool Deck - 5th		17.3%	21.8%	11.5%	1.91	1.51
Pool Deck - 6th		19.7%	22.4%	18.0%	1.21	1.21
West Driveway		7.6%	4.9%	0.3%	15.01	25.31

[illegible]

Accessories	
<i>Ordered and shipped separately.</i>	
DSP651	Head-of-the-line amplifier
DSP652	Power supply
DSP653	In-line speaker cable
DSP654	Wired part accessory
DSP655	Whole part accessory

E0.2c