EXTERIOR LIGHTING LEGEND

	LUMINAIRE - EXTERIOR WALL PACK - WALL MOUNTED - LED
	LUMINAIRE - EXTERIOR SCONCE - WALL MOUNTED - LED
	LUMINAIRE - EXTERIOR DOWNLIGHT - SURFACE MOUNTED - LED
	LUMINAIRE - EXTERIOR CYLINDER - DOWN - WALL MOUNTED - LED
	LUMINAIRE - EXTERIOR POLE LIGHT - SINGLE HEAD - RECTANGULAR HEAD - LED
	LUMINAIRE - EXTERIOR BOLLARD - LED
	LUMINAIRE - EXTERIOR POST LAMP - LED

(MASTER-E) Lighting Fixture Schedule - Exterior - (New)

Level	Type	Qty.	Description	Fixture Finish	Color Temperature	Lumens	Voltage	Power	Manufacturer	Part #	Lamping	Elevation of Light Source	Mounting Comments	Accessory 1	Accessory 2	Supplied By	Approved Alternate	Comments (Controls)
Ground Floor	B1	18	LUMINAIRE / OUTDOOR / BOLLARD / 4 - WAY / LED DIRECT	BLACK	3000 K	1021 lm	120 V	32 VA	INVUE	ABB-B2-LED-D1-S-8030-BK	LED 32W					DIV. 26	NOT PERMITTED	
Ground Floor	C2	7	LUMINAIRE / OUTDOOR / CYLINDER / UP & DOWN / WALL / LED DIRECT	BLACK	3000 K	3438 lm	120 V	40 VA	LUMIERE	9004-W2-FL-LED3090-W-BK-L2-UNV	LED 40.2W	9' - 10"	WALL			DIV. 26	NOT PERMITTED	
Ground Floor	P1	2	LUMINAIRE / OUTDOOR / POLE LIGHT / SINGLE / RECT. HEAD / LED DIRECT	BLACK	3000 K	5329 lm	120 V	57 VA	McGRAW-EDISON	GALN-SA1C-730-U-SL4-BK-HSS	LED 57W	20' - 0"				DIV. 26	NOT PERMITTED	
Ground Floor	P2	2	LUMINAIRE / OUTDOOR / POST LAMP / LED DIRECT	BLACK	3000 K	4192 lm	120 V	41 VA	INVUE	ARB-B2-LED-D1-T5-BK-7030	LED 41W	12' - 0"				DIV. 26	NOT PERMITTED	
		29																
Mezzanine	C	1	LUMINAIRE / OUTDOOR / DOWNLIGHT / SURFACE / 4" / LED DIRECT	BLACK	3000 K	1800 lm	120 V	22 VA	PORTFOLIO	LER6C20D010MB EC6C10259030 6LBMB	LED 22W		CEILING / SURFACE			DIV. 26	NOT PERMITTED	
		1																
U/S 2nd Floor	C	40	LUMINAIRE / OUTDOOR / DOWNLIGHT / SURFACE / 4" / LED DIRECT	BLACK	3000 K	1800 lm	120 V	22 VA	PORTFOLIO	LER6C20D010MB EC6C10259030 6LBMB	LED 22W		CEILING / SURFACE			DIV. 26	NOT PERMITTED	
		40																
U/S 2nd Floor Balcony	C	7	LUMINAIRE / OUTDOOR / DOWNLIGHT / SURFACE / 4" / LED DIRECT	BLACK	3000 K	1800 lm	120 V	22 VA	PORTFOLIO	LER6C20D010MB EC6C10259030 6LBMB	LED 22W		CEILING / SURFACE			DIV. 26	NOT PERMITTED	
		7																
MECH/ROOF	C3	23	LUMINAIRE / OUTDOOR / CYLINDER / DOWN / WALL / LED DIRECT	BLACK	3000 K	702 lm	120 V	23 VA	INVUE	ABW-B2-8030-LED-D1-A-BK	LED 23W	8' - 2 1/2"	WALL			DIV. 26	NOT PERMITTED	
MECH/ROOF	W1	4	LUMINAIRE / OUTDOOR / WALL PACK / WALL / LED DIRECT	BLACK	3000 K	4522 lm	120 V	34 VA	McGRAW-EDISON	IST-SA1C-740-U-T4W-BK	LED 34.2W	8' - 2 1/2"	WALL			DIV. 26	NOT PERMITTED	
		27																
		104																

(02324) PROJECT DRAWING REGISTER

Sheet #	Sheet Name
E-1	Electrical Site Lighting Plan
E-2	Electrical - U/G Parking P2
E-3	Electrical - U/G Parking P1
E-4	Electrical - Roof Plan



TYPE W1



TYPE P2



TYPE C2



TYPE C



TYPE P1



TYPE C3

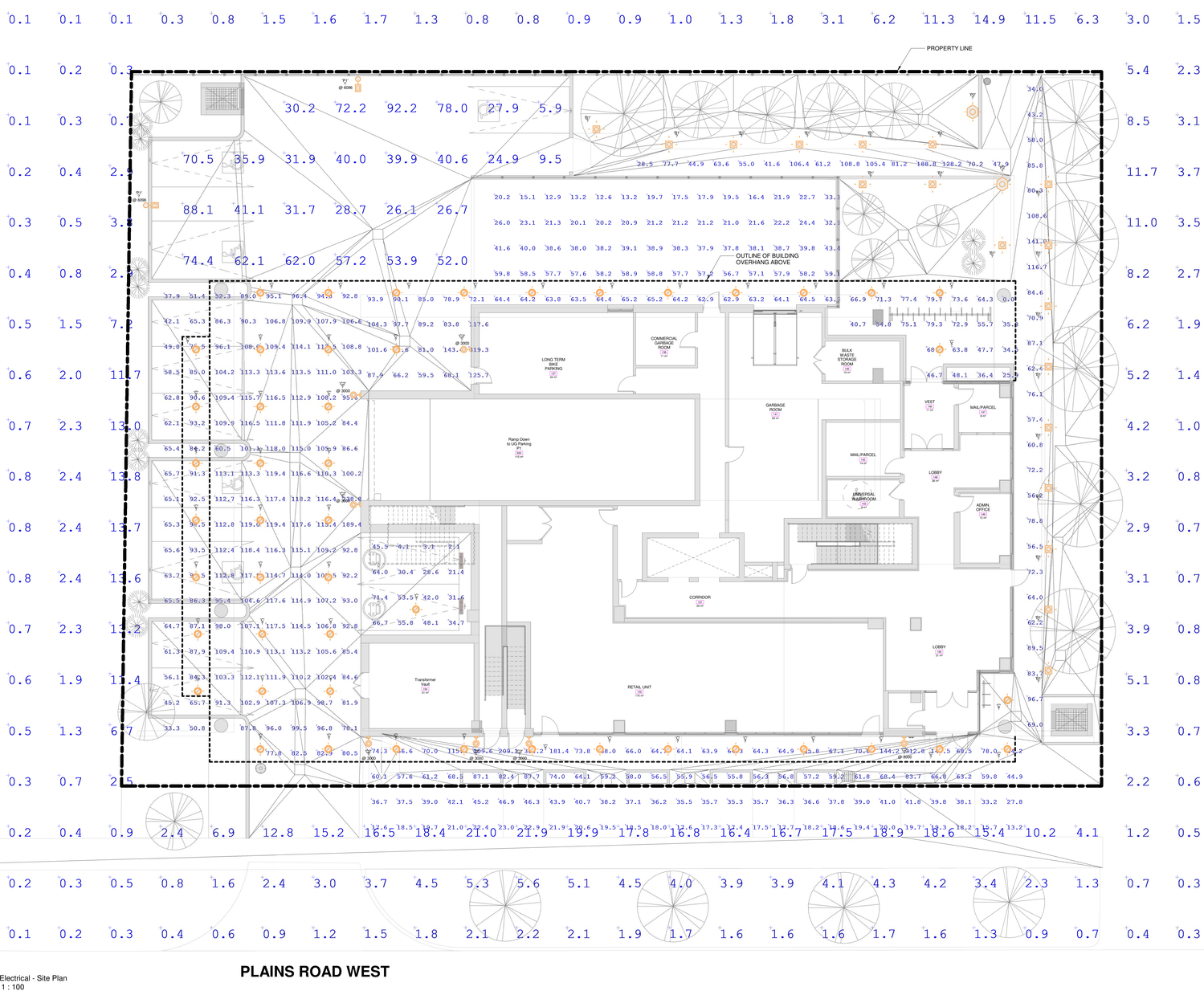


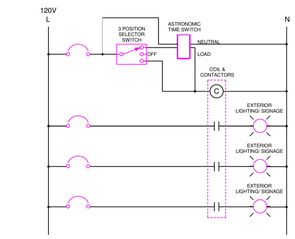
TYPE B1

LIGHT FIXTURES DESIGNED FOR EXTERIOR ILLUMINATION MUST BE "DARK SKY" COMPLIANT & INSTALLED WITH THE LIGHT DIRECTED DOWNWARD & DEFLECTED AWAY FROM ADJACENT LOTS & STREETS

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
EAST SIDE	Illuminance	Lux	97.40	238.8	33.3	2.92	7.17
NORTH SIDE	Illuminance	Lux	54.52	319.3	0.0	N.A.	N.A.
SOUTH SIDE	Illuminance	Lux	58.52	312.8	13.2	4.43	23.70
EAST WALKWAY	Illuminance	Lux	75.69	141.0	34.0	2.23	4.15
NORTH WALKWAY	Illuminance	Lux	80.63	188.8	28.5	2.83	6.62
PARKING AREA	Illuminance	Lux	46.29	92.2	5.9	7.85	15.63
E-CHARGE PARKING	Illuminance	Lux	37.69	71.4	2.1	17.95	34.00
TRESPASS	Illuminance	Lux	3.53	21.9	0.1	35.30	219.00

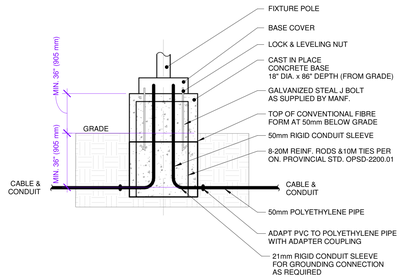




NOTES:

- 3 POSITION SELECTOR SWITCH, COIL & CONTACTORS LOCATE IN ELECTRICAL ROOM
- • MOUNT THE TIME SWITCH & CONTACTOR IN NEMA RATED
- • HINGED DOOR ENCLOSURE. MOUNT PILOT LIGHT 3 POSITION SWITCH & LEGEND PLATE ON FACE OF DOOR. PROVIDE LAMACOID NAMEPLATE ON DOOR INDICATING "EXTERIOR LIGHTING CONTROL"
- • MOUNT ENCLOSURE ON PLYWOOD BACKBOARD.
- • ASTRONOMICAL TIME SWITCH C/W BATTERY BACK-UP. INTERMATIC ET8000 SERIES.
- • REFER TO PANEL SCHEDULES FOR ALL EXTERIOR LIGHTING/ SIGNAGE CIRCUIT

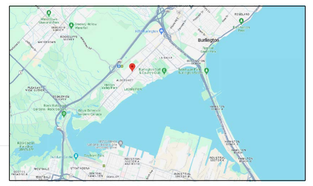
2 / E-1 Exterior Lighting Control - Astronomic Timer
N.T.S.



3 / E-1 Light Pole Standard
N.T.S.

1 / E-1 Electrical - Site Plan
1 : 100

PLAINS ROAD WEST



(02324) Google Map for Project

PRIME CONSULTANT:
aaa architects
SUITE 1018 130 QUEENS QUAY EAST TORONTO, ON.
TEL. # : 647 948 4889

MECHANICAL & ELECTRICAL CONSULTANT:
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DRAWING REVISIONS

No.	Description	Date
1	SAN Stack Concept	Mar. 28/24
2	Issued for SPA	Sep. 12/24

Engineer's Seal:



Client: AAA Architects

Address: 141-153 Plains Rd. Burlington, ON

Project Name: New Apartment Building

Dwg. Name: Electrical Site Lighting Plan

NSET Project #: 02324

Drawn by: Northstar Eng. | Checked by:

Scale: As indicated | Revision #: 2.0

Drawing #: E-1

Project Date: Dec. 10/23 | Arch-E (36" x 48")

LIGHTING LEGEND

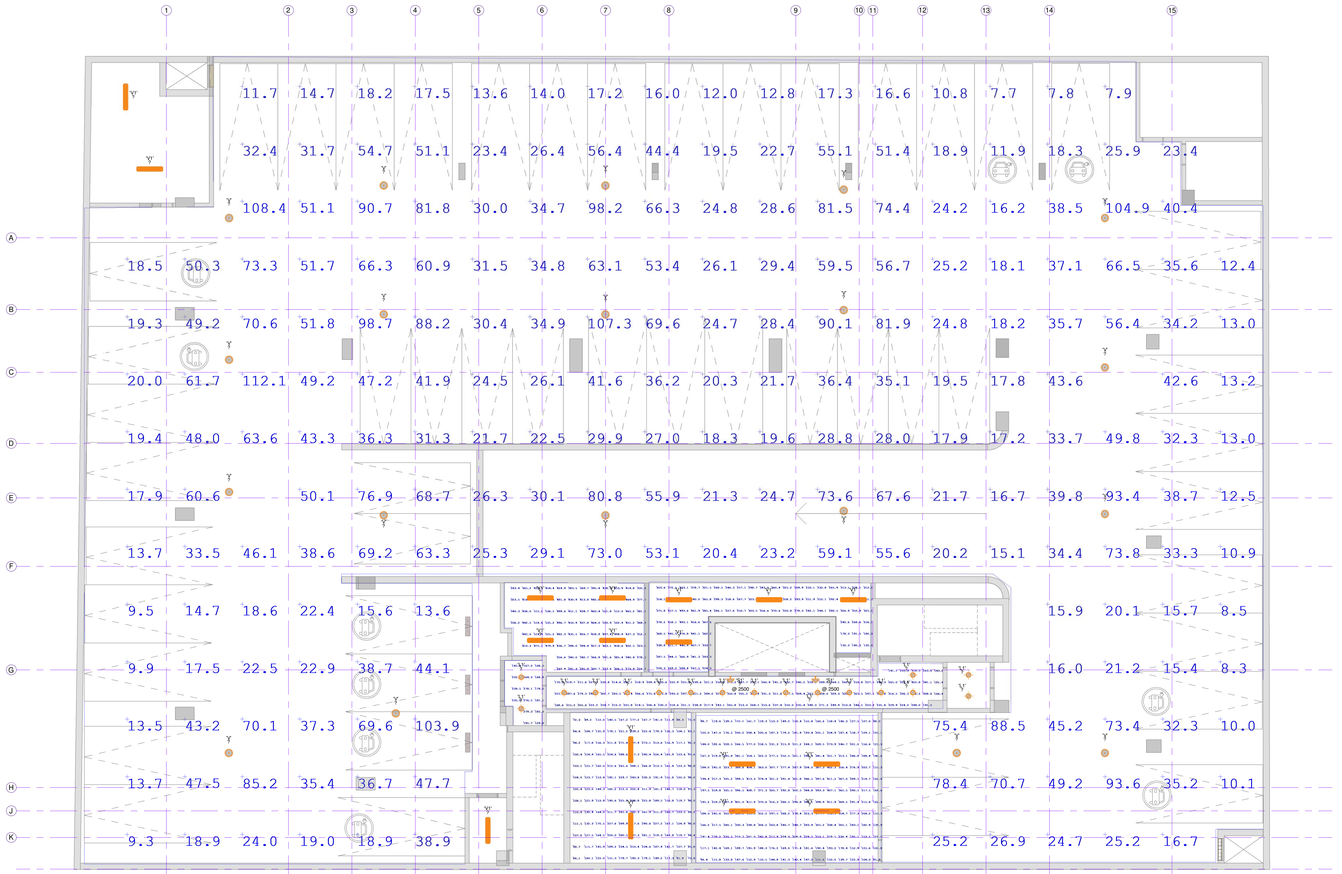
	LUMINAIRE - INTERIOR DOWNLIGHT - SURFACE MOUNTED - LED
	LUMINAIRE - INTERIOR GARAGE - SURFACE MOUNTED - LED
	LUMINAIRE - INTERIOR SCONCE - WALL MOUNTED - LED
	LUMINAIRE - INTERIOR VAPOUR PROOF - SURFACE MOUNTED - LED

NOT ALL SYMBOLS APPLY TO FLOOR PLANS / DRAWINGS
SEE SPECIFICATIONS FOR ALL CABLE TYPES

(MASTER-E) Lighting Fixture Schedule - Interior - Parking Level 2 - (New)

Level	Type	Qty.	Description	Fixture Finish	Color Temperature	Lumens	Voltage	Power	Manufacturer	Part #	Lamping	Elevation of Light Source	Mounting Comments	Accessory 1	Accessory 2	Supplied By	Approved Alternate	Comments (Controls)
U/G Parking P2	S1	2	LUMINAIRE / INDOOR / SCONCE / WALL / LED DIRECT	SILVER GRAY	3000 K	871 lm	120 V	17 VA	DALS LIGHTING	170228002	LED 16.5W	8' - 2 1/2"	WALL			DIV. 26	NOT PERMITTED	
		2																
U/S P1 Floor	L1	17	LUMINAIRE / INDOOR / DOWNLIGHT / SURFACE / 4" / LED DIRECT	BLACK	3000 K	1011 lm	120 V	9 VA	3G LIGHTING	3G-DZ03R-07-S80-30K-40D-UNV-DIM-BT-BLV-NCF	LED 8.5W		CEILING / SURFACE			DIV. 26	NOT PERMITTED	
U/S P1 Floor	V	19	LUMINAIRE / INDOOR / GARAGE / SURFACE / 12.6" / LED DIRECT	BLACK	4000 K	4337 lm	120 V	33 VA	McGRAW-EDISON	TTN-D1-740-U-MO-BK-UPL3	LED 33.2W		CEILING / SURFACE			DIV. 26	NOT PERMITTED	
U/S P1 Floor	V1	17	LUMINAIRE / INDOOR / VAPOUR PROOF / SURFACE / 48" LENGTH / LED DIRECT	WHITE	4000 K	6241 lm	120 V	45 VA	METALUX	4APVTLD-SL3C3 - 080083266371 - HIGH POWER	LED 44.5W		CEILING / SURFACE			DIV. 26	NOT PERMITTED	
		53																
		55																

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Corridor_Floor	Illuminance	Lux	261.25	422.8	141.1	1.85	3.00
Fire Pump_Floor	Illuminance	Lux	418.04	536.5	226.2	1.85	2.37
Locker Room_Floor	Illuminance	Lux	241.33	413.3	85.9	2.81	4.81
Long Term Bike Parking_Floor	Illuminance	Lux	168.42	317.6	71.0	2.37	4.47
Mechanical Room_Floor	Illuminance	Lux	324.49	493.6	130.3	2.49	3.79
Pkg Garage Lvl 2_Floor	Illuminance	Lux	38.30	112.1	7.7	4.97	14.56
Vestibule_Floor	Illuminance	Lux	204.07	279.3	108.0	1.89	2.59



2 / E-2 U/G Parking P2 - Electrical Lighting
1 : 100

(02324) PROJECT DRAWING REGISTER

Sheet #	Sheet Name
E-1	Electrical Site Lighting Plan
E-2	Electrical - U/G Parking P2
E-3	Electrical - U/G Parking P1
E-4	Electrical - Roof Plan

PRIME CONSULTANT:
aaa architects
SUITE 1018 130 QUEENS QUAY EAST TORONTO, ON.
TEL. # : 647 948 4889

MECHANICAL & ELECTRICAL CONSULTANT:
NORTHSTAR ENGINEERING & TECHNOLOGIES LTD.
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DRAWING REVISIONS

No.	Description	Date
1	SAN Stack Concept	Mar. 28/24
2	Issued for SPA	Sep. 12/24

Engineer's Seal:

Client: AAA Architects

Address: 141-153 Plains Rd. Burlington, ON

Project Name: New Apartment Building

Dwg. Name: Electrical - U/G Parking P2

NSET Project #: 02324

Drawn by: Northstar Eng.	Checked by:
Scale: As indicated	Revision #: 2.0

Drawing #: E-2

Project Date: Dec. 10/23 Arch-E (36" x 48")

LIGHTING LEGEND

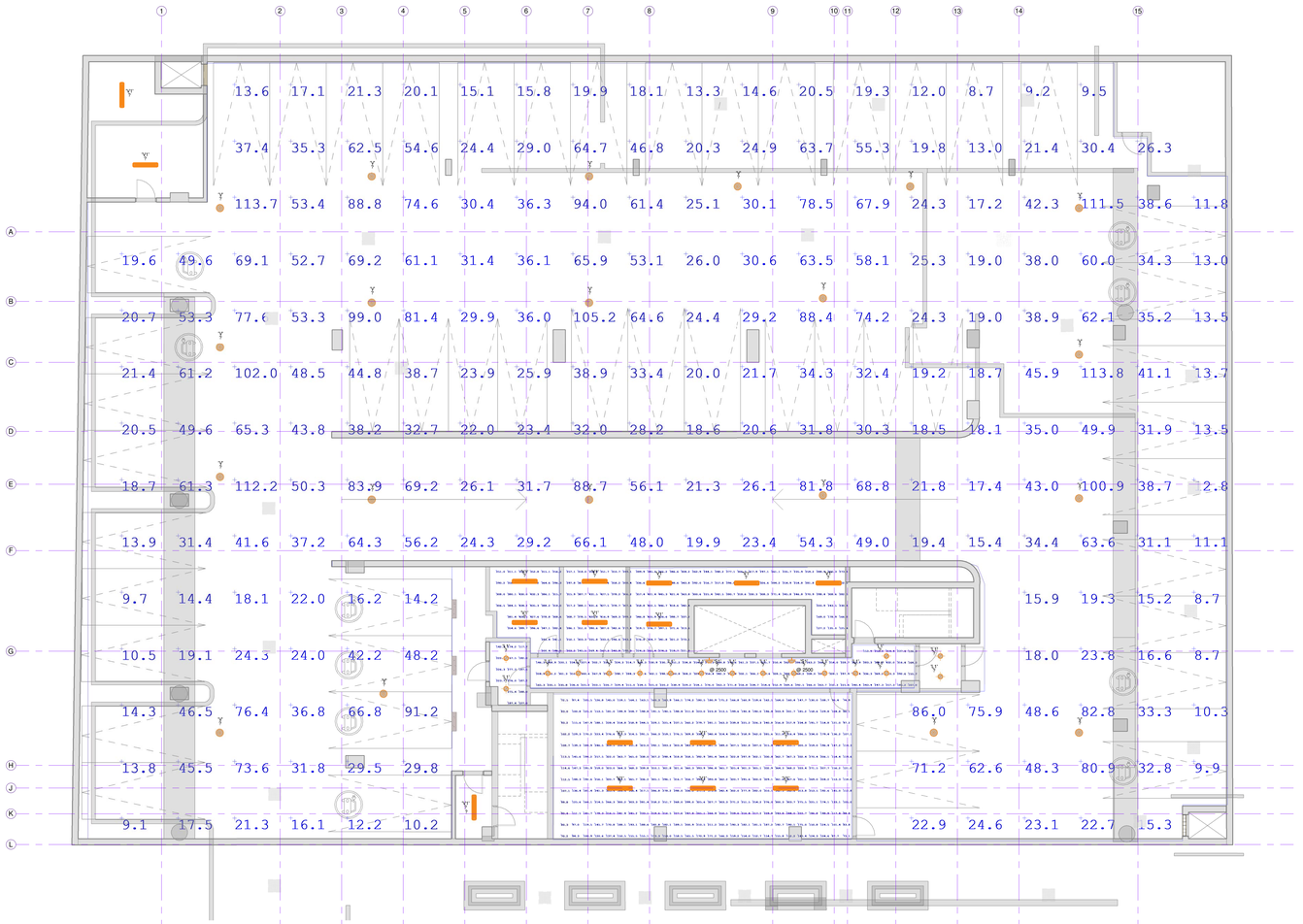
	LUMINAIRE - INTERIOR DOWNLIGHT - SURFACE MOUNTED - LED
	LUMINAIRE - INTERIOR GARAGE - SURFACE MOUNTED - LED
	LUMINAIRE - INTERIOR SCONCE - WALL MOUNTED - LED
	LUMINAIRE - INTERIOR VAPOUR PROOF - SURFACE MOUNTED - LED

NOT ALL SYMBOLS APPLY TO FLOOR PLANS / DRAWINGS
SEE SPECIFICATIONS FOR ALL CABLE TYPES

(MASTER-E) Lighting Fixture Schedule - Interior - Parking Level 1 - (New)

Level	Type	Qty.	Description	Fixture Finish	Color Temperature	Lumens	Voltage	Power	Manufacturer	Part #	Lamping	Elevation of Light Source	Mounting Comments	Accessory 1	Accessory 2	Supplied By	Approved Alternate	Comments (Controls)
U/G Parking P1	S1	2	LUMINAIRE / INDOOR / SCONCE / WALL / LED DIRECT	SILVER GRAY	3000 K	871 lm	120 V	17 VA	DALS LIGHTING	170228002	LED 16.5W	8' - 2 1/2"	WALL			DIV. 26	NOT PERMITTED	
		2																
U/S Ground Floor	L1	17	LUMINAIRE / INDOOR / DOWNLIGHT / SURFACE / 4" / LED DIRECT	BLACK	3000 K	1011 lm	120 V	9 VA	3G LIGHTING	3G-DZD3R-07-S80-30K-40D-UNV-DIM-BT-BLV-NCF	LED 8.5W		CEILING / SURFACE			DIV. 26	NOT PERMITTED	
U/S Ground Floor	V	20	LUMINAIRE / INDOOR / GARAGE / SURFACE / 12.6" / LED DIRECT	BLACK	4000 K	4337 lm	120 V	33 VA	McGRAW-EDISON	TTN-D1-740-U-MO-BK-UPL3	LED 33.2W		CEILING / SURFACE			DIV. 26	NOT PERMITTED	
U/S Ground Floor	V1	17	LUMINAIRE / INDOOR / VAPOUR PROOF / SURFACE / 48" LENGTH / LED DIRECT	WHITE	4000 K	6241 lm	120 V	45 VA	METALUX	4APVTLD-SL3C3 - 080083266371 - HIGH POWER	LED 44.5W		CEILING / SURFACE			DIV. 26	NOT PERMITTED	
		54																
		56																

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Corridor_Floor	Illuminance	Lux	264.78	432.0	107.0	2.47	4.04
Electrical Room_Floor	Illuminance	Lux	330.94	431.6	198.3	1.67	2.18
Level 1 Parking_Floor	Illuminance	Lux	38.74	113.8	8.7	4.45	13.08
Locker Room_Floor	Illuminance	Lux	228.48	396.4	70.2	3.25	5.65
Mechanical Room_Floor	Illuminance	Lux	302.27	446.7	125.4	2.41	3.56
Vestibule_Floor	Illuminance	Lux	203.86	277.3	117.7	1.73	2.36
Water Meter Room_Floor	Illuminance	Lux	345.08	435.3	196.0	1.76	2.22



2 / E-3 U/G Parking P1 - Lighting
1 : 100

(02324) PROJECT DRAWING REGISTER

Sheet #	Sheet Name
E-1	Electrical Site Lighting Plan
E-2	Electrical - U/G Parking P2
E-3	Electrical - U/G Parking P1
E-4	Electrical - Roof Plan

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DRAWING REVISIONS

No.	Description	Date
1	SAN Stack Concept	Mar. 28/24
2	Issued for SPA	Sep. 12/24

Engineer's Seal:
DAVID BURG — 100135774 — PROVINCE OF ONTARIO

Client: AAA Architects

Address: 141-153 Plains Rd. Burlington, ON

Project Name: New Apartment Building

Dwg. Name: Electrical - U/G Parking P1

NSET Project #: 02324

Drawn by: Northstar Eng. | Checked by:

Scale: As indicated | Revision #: 2.0

Drawing #: E-3

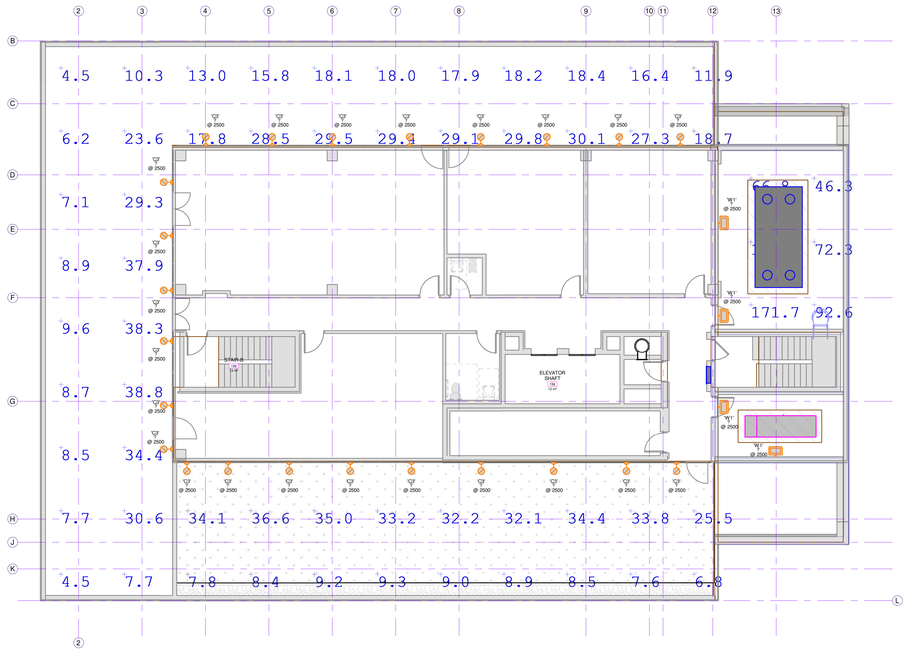
Project Date: Dec. 10/23 | Arch-E (36" x 48")

EXTERIOR LIGHTING LEGEND

	LUMINAIRE - EXTERIOR WALL PACK - WALL MOUNTED - LED
	LUMINAIRE - EXTERIOR SCONCE - WALL MOUNTED - LED
	LUMINAIRE - EXTERIOR DOWNLIGHT - SURFACE MOUNTED - LED
	LUMINAIRE - EXTERIOR CYLINDER - DOWN - WALL MOUNTED - LED
	LUMINAIRE - EXTERIOR POLE LIGHT - SINGLE HEAD - RECTANGULAR HEAD - LED
	LUMINAIRE - EXTERIOR BOLLARD - LED
	LUMINAIRE - EXTERIOR POST LAMP - LED

(MASTER-E) Lighting Fixture Schedule - Exterior - (New)

Level	Type	Qty.	Description	Fixture Finish	Color Temperature	Lumens	Voltage	Power	Manufacturer	Part #	Lamping	Elevation of Light Source	Mounting Comments	Accessory 1	Accessory 2	Supplied By	Approved Alternate	Comments (Controls)
Ground Floor	B1	18	LUMINAIRE / OUTDOOR / BOLLARD / 4 - WAY / LED DIRECT	BLACK	3000 K	1021 lm	120 V	32 VA	INVUE	ABB-B2-LED-D1-S-8030-BK	LED 32W					DIV. 26	NOT PERMITTED	
Ground Floor	C2	7	LUMINAIRE / OUTDOOR / CYLINDER / UP & DOWN / WALL / LED DIRECT	BLACK	3000 K	3438 lm	120 V	40 VA	LUMIERE	9004-W2-FL-LED3099-W-BK-L2-UNV	LED 40.2W	9' - 10"	WALL			DIV. 26	NOT PERMITTED	
Ground Floor	P1	2	LUMINAIRE / OUTDOOR / POLE LIGHT / SINGLE / RECT. HEAD / LED DIRECT	BLACK	3000 K	5329 lm	120 V	57 VA	McGRAW-EDISON	GALN-SA1C-730-U-SL4-BK-HSS	LED 57W	20' - 0"				DIV. 26	NOT PERMITTED	
Ground Floor	P2	2	LUMINAIRE / OUTDOOR / POST LAMP / LED DIRECT	BLACK	3000 K	4192 lm	120 V	41 VA	INVUE	ARB-B2-LED-D1-T5-BK-7030	LED 41W	12' - 0"				DIV. 26	NOT PERMITTED	
		29																
Mezzanine	C	1	LUMINAIRE / OUTDOOR / DOWNLIGHT / SURFACE / 4" / LED DIRECT	BLACK	3000 K	1800 lm	120 V	22 VA	PORTFOLIO	LER6C20D010MB EC6C10259030 6LBMB	LED 22W		CEILING / SURFACE			DIV. 26	NOT PERMITTED	
		1																
U/S 2nd Floor	C	40	LUMINAIRE / OUTDOOR / DOWNLIGHT / SURFACE / 4" / LED DIRECT	BLACK	3000 K	1800 lm	120 V	22 VA	PORTFOLIO	LER6C20D010MB EC6C10259030 6LBMB	LED 22W		CEILING / SURFACE			DIV. 26	NOT PERMITTED	
		40																
U/S 2nd Floor Balcony	C	7	LUMINAIRE / OUTDOOR / DOWNLIGHT / SURFACE / 4" / LED DIRECT	BLACK	3000 K	1800 lm	120 V	22 VA	PORTFOLIO	LER6C20D010MB EC6C10259030 6LBMB	LED 22W		CEILING / SURFACE			DIV. 26	NOT PERMITTED	
		7																
MECH/ROOF	C3	23	LUMINAIRE / OUTDOOR / CYLINDER / DOWN / WALL / LED DIRECT	BLACK	3000 K	702 lm	120 V	23 VA	INVUE	ABW-B2-8030-LED-D1-A-BK	LED 23W	8' - 2 1/2"	WALL			DIV. 26	NOT PERMITTED	
MECH/ROOF	W1	4	LUMINAIRE / OUTDOOR / WALL PACK / WALL / LED DIRECT	BLACK	3000 K	4522 lm	120 V	34 VA	McGRAW-EDISON	IST-SA1C-740-U-T4W-BK	LED 34.2W	8' - 2 1/2"	WALL			DIV. 26	NOT PERMITTED	
		27																
		104																



1 / E-4 Electrical - Roof Plan
1 : 100

(02324) PROJECT DRAWING REGISTER

Sheet #	Sheet Name
E-1	Electrical Site Lighting Plan
E-2	Electrical - U/G Parking P2
E-3	Electrical - U/G Parking P1
E-4	Electrical - Roof Plan

PRIME CONSULTANT:
aaa architects
SUITE 1018 130 QUEENS QUAY EAST TORONTO, ON.
TEL. # : 647 948 4839

MECHANICAL & ELECTRICAL CONSULTANT:
NORTHSTAR ENGINEERING & TECHNOLOGIES LTD.
92 Caplan Ave., Suite #517
Barrie, Ontario L4N 9J2
Tel. (705) 719-1003 Fax (705) 719-0490
dburg@nset.ca www.nset.ca

GENERAL DRAWING / DESIGNER NOTES:

[1] ALL CONSTRUCTION METHODS AND MATERIALS TO CONFORM TO THE LATEST EDITION OF THE PROVINCE ONTARIO'S "BUILDING CODE", LOCAL REGULATIONS AND AUTHORITIES HAVING JURISDICTION.

[2] THE CONSULTANT RESERVES THE RIGHT TO MAKE REASONABLE CHANGES IN CONSTRUCTION DETAILS AND SPECIFICATIONS. THE CONTRACTOR FOR ADDITIONAL FEES, ADDITIONAL CONSTRUCTION COSTS ARRIVING FROM SUCH CHANGES MAY APPLY AND ARE TO BE NEGOTIATED BETWEEN THE OWNER AND CONTRACTOR.

[3] DRAWINGS ONLY SHOW GENERAL INTENT AND SCOPE OF WORK. EXACT DETAILS OF INSTALLATIONS ARE TO BE PROVIDED BY CONTRACTOR(S). DO NOT SCALE DRAWINGS.

[4] CONTRACTOR/AGENT/OWNER TO REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE DESIGNER.

[5] PROCEED WITH CONSTRUCTION ONLY USING THE LATEST REVISED DRAWINGS MARKED "ISSUED FOR CONSTRUCTION".

[6] THIS DRAWING IS SPECIFIC TO THIS PROJECT AND CANNOT BE USED FOR OTHER "SIMILAR" PROJECTS.

[7] THIS DRAWING IS THE PROPERTY OF NORTHSTAR ENGINEERING & TECHNOLOGIES LTD. UN-AUTHORIZED RE-PRODUCTION OR USE IS PROHIBITED.

[8] SHOP DRAWINGS:
BASED ON CONTRACT WITH OWNER, THE ENGINEER WILL REVIEW SHOP SUBMISSION DWGS FROM THE CONTRACTOR TO CHECK FOR GENERAL CONFORMANCE WITH THE DESIGN (DESIGN DWGS). THE SHOP DWG REVIEW WILL NOT RELEASE THE CONTRACTOR FROM RESPONSIBILITY TO MAKE A FEASIBLE WORKING SYSTEM. THESE SHOP DRAWINGS SHALL CONSIST OF PLUMBING FIXTURES, HVAC EQUIPMENT, HVAC DIFFUSERS. ALLOW MINIMUM 1-2 WEEKS FOR COMPLETION (BASED ON COMPLEXITY).

[9] THE DESIGNER DOES NOT ACCEPT RESPONSIBILITY FOR OTHER DESIGNER'S WORK IN ASSOCIATION WITH THIS PROJECT.

[10] RESPONSIBILITY FOR ANY FINAL ASSEMBLY(S) THAT VIOLATE APPLICABLE BUILDING CODES IS NOT ACCEPTED BY THE DESIGNER.

[11] REQUESTS FOR CHANGES OR SUBSTITUTIONS TO EQUIPMENT, PLANS AND / OR SPECIFICATIONS WILL BE SUBJECT TO ADDITIONAL FEES CHARGED BY THE CONSULTANT.

[12] SITE VISITS TO REVIEW IMPLEMENTED DESIGNS WITHIN THE SCOPE OF THIS PROJECT TO BE ARRANGED WITH THE OWNER.

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