



**2023079 Innes Road - Electrical Drawing List**  
 INNES ROAD, OTTAWA, ONTARIO

DESCRIPTION	DRAWING NO.	SHEET NO.
Electrical Cover Page	E0.0	1
Electrical Legend, Single Line Diagram, Schedules & Details	E0.1	2
Electrical Site Lighting Photometrics	E1.0	3
Electrical Site Lighting Plan	E1.1	4



P: 780 244 0252 F: 780 244 0252  
 Suite 1250 10130 103 St NW  
 Edmonton, AB T5J 3N9  
 info@designworksend.com  
 www.designworksend.com  
 COPYRIGHT 2024  
 DESIGN WORKS ENGINEERING LTD.

**COPYRIGHT RESERVED**  
 THESE DRAWINGS AND DESIGN ARE THE EXCLUSIVE PROPERTY OF DESIGN WORKS ENGINEERING LTD. AND MAY NOT BE REPRODUCED IN ANY WAY OR FORM WITHOUT THE DIRECT WRITTEN PERMISSION OF DESIGN WORKS ENGINEERING LTD.

**NOTES**  
 THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SIGNED AND SEALED, AND DRAWINGS HAVE BEEN ISSUED FOR CONSTRUCTION IN THE TABLE BELOW.  
 DO NOT SCALE THIS DRAWING.

No.	Description	Date
1	ISSUED FOR REVIEW 30%	2023-05-30
2	ISSUED FOR REVIEW 50%	2023-07-28
3	ISSUED FOR REVIEW 75%	2024-01-03
4	ISSUED FOR SPA REV.2	2024-02-22

ARCHITECT

CLIENT

SEAL: PERMIT

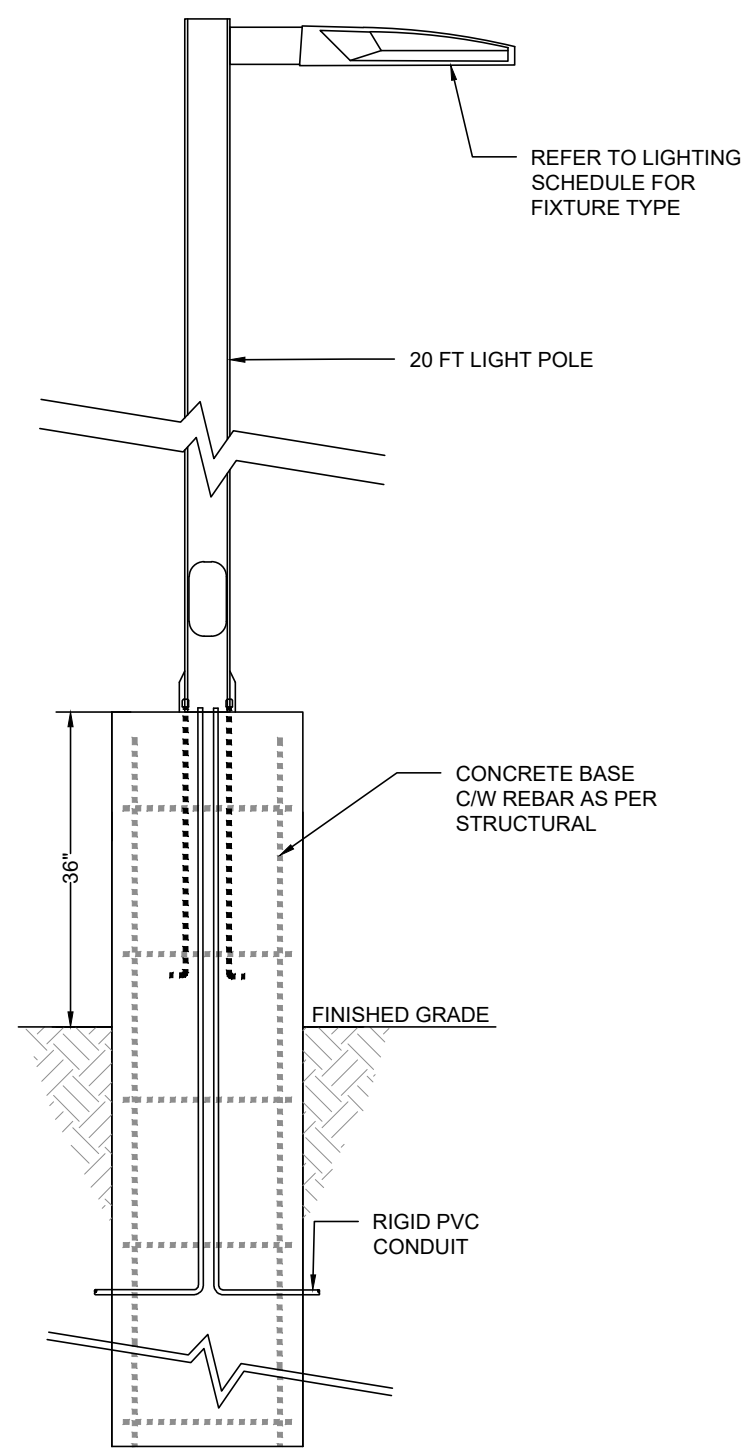
DRAWN BY: ACF  
 CHECKED BY: SHERRY KALDAS  
 ENGINEER: MOSES NORGA, P.ENG.  
 PROJECT #: 2023079  
 SCALE: AS NOTED

PROJECT  
**Innes Road**  
 INNES ROAD, OTTAWA, ONTARIO

DESCRIPTION  
**Electrical Cover Page**  
 DRAWING NO. **E0.0** SHEET **1** / **4**


**ELECTRICAL SYMBOL LEGENDS**

LIGHTING / SWITCHING	
○	SURFACE CEILING MOUNTED LUMINAIRE
◐	SURFACE CEILING MOUNTED EMERGENCY POWERED LUMINAIRE
○	RECESSED CEILING MOUNTED LED DOWNLIGHT
◐	RECESSED CEILING MOUNTED EMERGENCY POWERED LUMINAIRE
○	SUSPENDED CEILING MOUNTED LUMINAIRE
◐	SUSPENDED CEILING MOUNTED EMERGENCY POWERED LUMINAIRE
○	WALL MOUNTED LUMINAIRE
◐	WALL MOUNTED EMERGENCY POWERED LUMINAIRE
○	SURFACE OR SUSPENDED MOUNTED LUMINAIRE
◐	SURFACE OR SUSPENDED MOUNTED EMERGENCY POWERED LUMINAIRE
▭	RECESSED MOUNTED LUMINAIRE
▭	TRACK TYPE LUMINAIRE (REFER TO FIXTURE SCHEDULE FOR HEAD COUNTS AND TRACK LENGTHS)
□	POLE MOUNTED LUMINAIRE (QUANTITY OF HEADS AS SHOWN ON PLAN)
⊗	BOLLARD TYPE LUMINAIRE
⚡	SINGLE POLE SWITCH
⚡ <sub>3</sub>	THREE WAY OR FOUR WAY SWITCH
⚡ <sub>K</sub>	KEY-OPERATED SWITCH
⚡ <sub>D</sub>	DIMMER SWITCH
⚡ <sub>V</sub>	SWITCH CW VACANCY SENSOR
⚡ <sub>V</sub> <sub>D</sub>	DIMMER SWITCH CW VACANCY SENSOR
⚡ <sub>O</sub>	SWITCH CW OCCUPANCY SENSOR
⚡ <sub>T</sub>	TIMER SWITCH
⊙	OCCUPANCY SENSOR - CEILING MOUNTED (PROVIDE TYPE SUIT COVERAGE)
⊙	VACANCY SENSOR - CEILING MOUNTED (PROVIDE TYPE SUIT COVERAGE)
⌚	TIMECLOCK CONTROLLER
☀	PHOTOCELL CONTROLLER




NOTE:  
REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL REINFORCING AND ALL DIMENSIONS RELATED TO THE CONCRETE BASES.

**2 Pole Mounted Luminaire Base Detail**  
E0.1 Scale NTS


	LUMINAIRES	CROSSTOUR WALL MOUNT LED
	LAMP	LED, 4000K
	LUMENS	6037 LM
	BALLAST	LED DRIVER
	HOUSING	-
	LENS	-
	INPUT WATTAGE	58 W
	MOUNTING	EXTERIOR WALL SURFACE
	SPECIAL REQUIREMENTS	-
	ACCEPTABLE PRODUCTS	LUMARK - XT0R6B-W (OR APPROVED EQUIVALENT)
	LUMINAIRE TYPE	104

	LUMINAIRES	GALLEON AREA AND ROADWAY LUMINAIRE
	LAMP	LED, 4000K
	LUMENS	14372 LM
	BALLAST	-
	HOUSING	-
	LENS	-
	INPUT WATTAGE	113 W
	MOUNTING	20FT POLE
	SPECIAL REQUIREMENTS	-
	ACCEPTABLE PRODUCTS	McGRAW-EDISON - GLEON-SA2C-740-U-T4W (OR APPROVED EQUIVALENT)
	LUMINAIRE TYPE	110

	LUMINAIRES	CROSSTOUR WALL MOUNT LED
	LAMP	LED, 5000K
	LUMENS	2134 LM
	BALLAST	LED DRIVER
	HOUSING	-
	LENS	-
	INPUT WATTAGE	18.2 W
	MOUNTING	EXTERIOR WALL SURFACE
	SPECIAL REQUIREMENTS	-
	ACCEPTABLE PRODUCTS	LUMARK - XT0R2B (OR APPROVED EQUIVALENT)
	LUMINAIRE TYPE	111

	LUMINAIRES	GALLEON AREA AND ROADWAY LUMINAIRE
	LAMP	LED, 4000K
	LUMENS	10490 LM
	BALLAST	-
	HOUSING	-
	LENS	-
	INPUT WATTAGE	113 W
	MOUNTING	20FT POLE
	SPECIAL REQUIREMENTS	-
	ACCEPTABLE PRODUCTS	McGRAW-EDISON - GLEON-SA2C-740-U-T4W-HSS (OR APPROVED EQUIVALENT)
	LUMINAIRE TYPE	114

**3 Luminaire Schedules**  
E0.1 Scale NTS




**DesignWorks Engineering**  
P: 780 244 0252 F: 780 244 0252  
Suite 1250 10130 103 St NW  
Edmonton, AB T5J 3N9  
info@designworksend.com  
www.designworksend.com  
COPYRIGHT 2024  
DESIGN WORKS ENGINEERING LTD.

**COPYRIGHT RESERVED**  
THESE DRAWINGS AND DESIGN ARE THE EXCLUSIVE PROPERTY OF DESIGN WORKS ENGINEERING LTD. AND MAY NOT BE REPRODUCED IN ANY WAY OR FORM WITHOUT THE DIRECT WRITTEN PERMISSION OF DESIGN WORKS ENGINEERING LTD.  
**NOTES**  
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SIGNED AND SEALED, AND DRAWINGS HAVE BEEN ISSUED FOR CONSTRUCTION IN THE TABLE BELOW.  
DO NOT SCALE THIS DRAWING.

No.	Description	Date
1	ISSUED FOR REVIEW 30%	2023-05-30
2	ISSUED FOR REVIEW 50%	2023-07-28
3	ISSUED FOR REVIEW 75%	2024-01-03
4	ISSUED FOR SPA REV.2	2024-02-22

ARCHITECT

CLIENT

SEAL	PERMIT
 W. TOUMEH 100604333 PROVINCE OF ONTARIO Feb. 22 2024	

DRAWN BY:	ACF
CHECKED BY:	SHERRY KALDAS
ENGINEER:	MOSES NORGA, P.ENG.
PROJECT #:	2023079
SCALE:	AS NOTED

PROJECT  
**Innes Road**  
  
INNES ROAD, OTTAWA, ONTARIO

DESCRIPTION  
**Electrical Legend, Single Line Diagram, Schedules & Details**

DRAWING NO.	<b>E0.1</b>	SHEET	<b>2</b>
			<b>4</b>



P: 780 244 0252 F: 780 244 0252  
 Suite 1250 10130 103 St NW  
 Edmonton, AB T5J 3N9  
 info@designworksend.com  
 www.designworksend.com  
 COPYRIGHT 2024  
 DESIGN WORKS ENGINEERING LTD.

**COPYRIGHT RESERVED**  
 THESE DRAWINGS AND DESIGN ARE THE EXCLUSIVE PROPERTY OF DESIGN WORKS ENGINEERING LTD. AND MAY NOT BE REPRODUCED IN ANY WAY OR FORM WITHOUT THE DIRECT WRITTEN PERMISSION OF DESIGN WORKS ENGINEERING LTD.

**NOTES**  
 THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SIGNED AND SEALED, AND DRAWINGS HAVE BEEN ISSUED FOR CONSTRUCTION IN THE TABLE BELOW.  
 DO NOT SCALE THIS DRAWING.

No.	Description	Date
1	ISSUED FOR REVIEW 30%	2023-05-30
2	ISSUED FOR REVIEW 50%	2023-07-28
3	ISSUED FOR REVIEW 75%	2024-01-03
4	ISSUED FOR SPA REV.2	2024-02-22

ARCHITECT

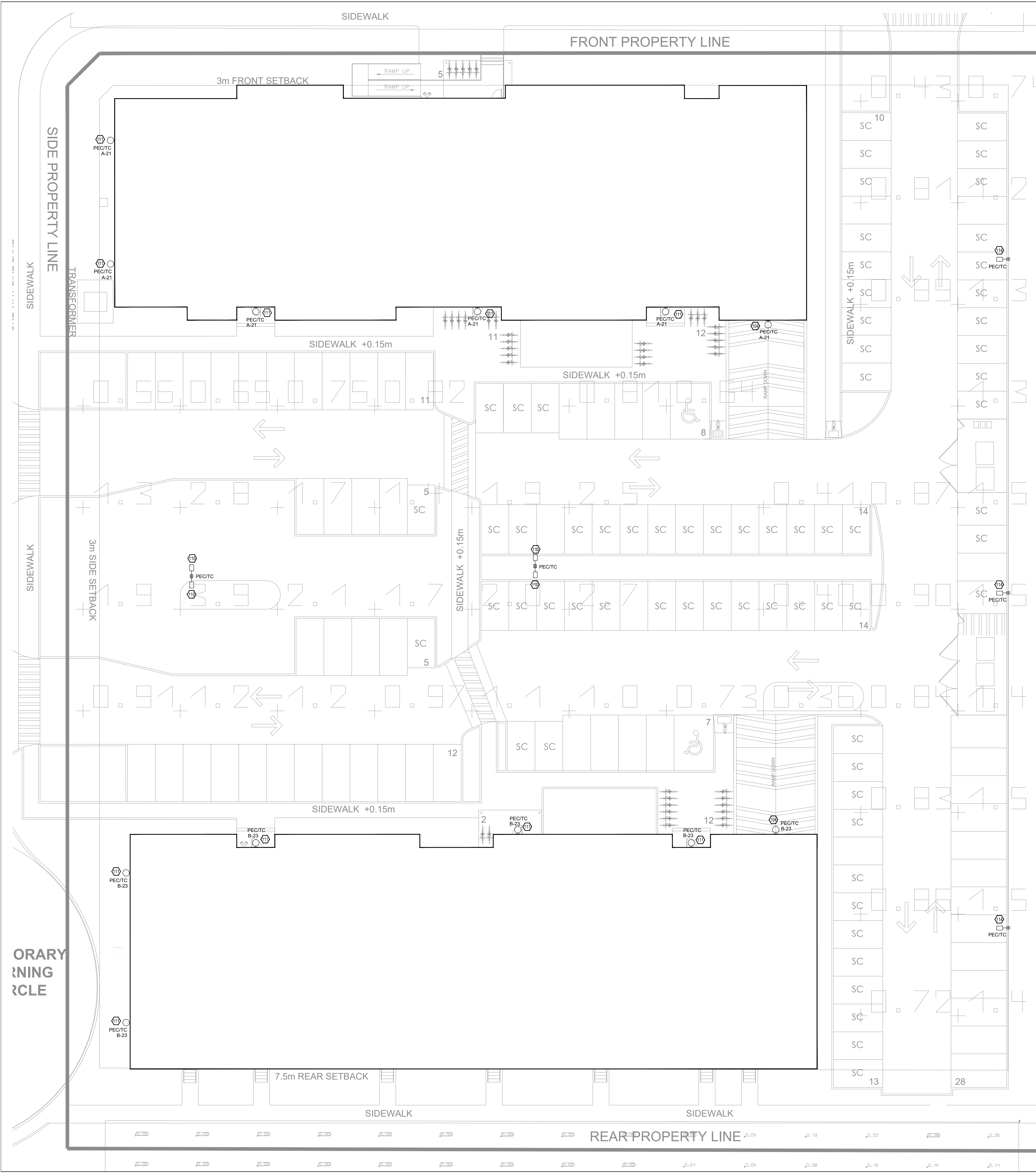
CLIENT

SEAL  
  
 PERMIT

DRAWN BY: ACF  
 CHECKED BY: SHERRY KALDAS  
 ENGINEER: MOSES NORGA, P.ENG.  
 PROJECT #: 2023079  
 SCALE: AS NOTED

PROJECT  
**Innes Road**  
 INNES ROAD, OTTAWA, ONTARIO

DESCRIPTION  
**Electrical Site Lighting Photometrics**  
 DRAWING NO. **E1.0** SHEET **3** OF **4**



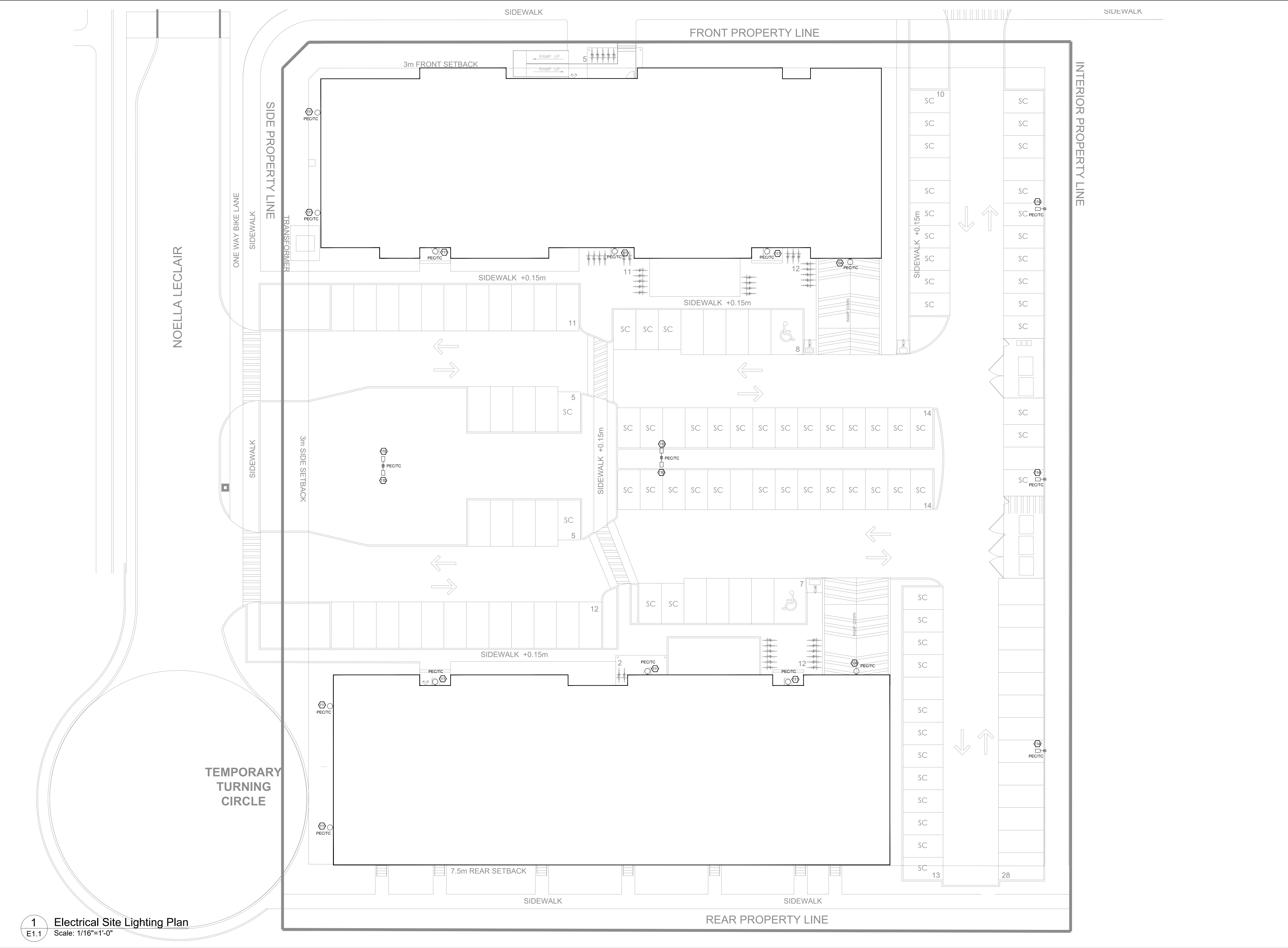
Callout	Name	Parameter	Min	Max	Average	Min/Average	Min/Max
114	Calculation surface 1	Perpendicular illuminance	0.001 fc	0.10 fc	0.011 fc	0.103	0.11
111	Calculation surface 2	Perpendicular illuminance	0.000 fc	0.12 fc	0.011 fc	0.00	0.00
110	Calculation surface 3	Perpendicular illuminance	0.000 fc	0.28 fc	0.026	0.00	0.00
104	Calculation surface (Outdoor space 1)	Perpendicular illuminance (Adaptive)	0.20 fc	5.30 fc	1.37 fc	0.142	0.037

**2** Lighting Calculations  
 Scale: NTS

**1** Electrical Site Lighting Photometrics  
 Scale: 1/16"=1'-0"

DOT-12-23-0095 #19033





1 Electrical Site Lighting Plan  
 Scale: 1/16"=1'-0"

**DesignWorks**  
Engineering

P: 780 244 0252 F: 780 244 0252  
 Suite 1250 10130 103 St NW  
 Edmonton, AB T5J 3N9  
 info@designworkseng.com  
 www.designworkseng.com

COPYRIGHT 2024  
 DESIGN WORKS ENGINEERING LTD.

**COPYRIGHT RESERVED**  
 THESE DRAWINGS AND DESIGN ARE THE EXCLUSIVE PROPERTY OF DESIGN WORKS ENGINEERING LTD. AND MAY NOT BE REPRODUCED IN ANY WAY OR FORM WITHOUT THE DIRECT WRITTEN PERMISSION OF DESIGN WORKS ENGINEERING LTD.

**NOTES**  
 THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SIGNED AND SEALED, AND DRAWINGS HAVE BEEN ISSUED FOR CONSTRUCTION IN THE TABLE BELOW.  
 DO NOT SCALE THIS DRAWING.

No.	Description	Date
1	ISSUED FOR REVIEW 30%	2023-05-30
2	ISSUED FOR REVIEW 50%	2023-07-28
3	ISSUED FOR REVIEW 75%	2024-01-03
4	ISSUED FOR SPA REV.2	2024-02-22

ARCHITECT

CLIENT

SEAL

PERMIT

DRAWN BY: ACF  
 CHECKED BY: SHERRY KALDAS  
 ENGINEER: MOSES NORGA, P.ENG.  
 PROJECT #: 2023079  
 SCALE: AS NOTED

PROJECT

**Innes Road**

INNES ROAD, OTTAWA, ONTARIO

DESCRIPTION

**Electrical Site Lighting Plan**

DRAWING NO. **E1.1** SHEET **4** OF **4**