



**LEGEND**

- □ ARM MOUNTED AREA LIGHT ON POLE
- WALL PACK
- AFG WALL PACK

- GENERAL SHEET NOTES**
- PHOTOMETRIC DATA POINTS ARE PROVIDED IN FOOTCANDLES (fc). ANALYSIS PERFORMED BY OMNILUMEN TECHNICAL PRODUCTS IN AG32 SOFTWARE WITH 0.9 LIGHT LOSS FACTOR (LLF). CALCULATION GRID SPACING 3.0 m x 3.0 m (10 FOOT X 10 FOOT) GRID AT GROUND LEVEL.
  - CITY OF OTTAWA PROPERTY STANDARDS BY-LAW NO. 2013-416 PART II - RESIDENTIAL PROPERTY STANDARDS SECTION 6 - YARDS
    - IN RESPECT TO MULTIPLE DWELLINGS AND NON-RESIDENTIAL PROPERTIES, EVERY AREA OF A YARD WHICH IS USED FOR VEHICULAR TRAFFIC OR PARKING INCLUDING A LOADING AREA SHALL BE:
      - KEPT FREE FROM DIRT AND REFUSE;
      - ADEQUATELY LIGHTED; AND
      - MAINTAINED IN GOOD REPAIR.
    - LIGHTS USED TO ILLUMINATE ANY AREA USED FOR VEHICULAR AND PEDESTRIAN TRAFFIC, OR PARKING SHALL BE ARRANGED, INSTALLED OR DESIGNED SO AS TO DEFLECT AWAY FROM ABUTTING RESIDENTIAL PROPERTIES.
  - CITY OF OTTAWA OFFICIAL PLAN, VOLUME 1, SECTION 5 - IMPLEMENTATION 5.2 - IMPLEMENTATION MECHANISMS, BY AUTHORITY UNDER THE PLANNING ACT AIR QUALITY
    - [...] SUBMISSIONS MAY NEED TO INCLUDE INDICATION OF ANY OR ALL OF THE FOLLOWING:
      - LOCATION, SITE, COLOUR, AND TYPE OF ALL BUILDING EXTERIOR SIGNAGE AND LIGHTING;
  - BEST PRACTICES (NOT CITED BY CITY OF OTTAWA BY-LAW)
    - IES RP-8-18, CHAPTER 17 PARKING AREAS AND DRIVES MINIMUM 0.5 FC.
    - DARK SKY FRIENDLY LUMINAIRES
      - CCT OF MAX 3000 K CCT
      - MINIMIZE UPLIGHT
  - EXTERIOR LIGHTING MANUFACTURER TO SUBMIT PHOTOMETRIC ANALYSIS PLAN OF PROPOSED LUMINAIRES SHOWING DELIVERED LIGHT LEVELS (MEASURED IN FOOTCANDLES), AND DEMONSTRATING MUNICIPALLY COMPLIANT LIGHT TRESPASS.
  - UNDERGROUND LIGHTING CONDUCTORS MINIMUM #6 AWG.

**LUMINAIRE SCHEDULE**

ZA1	ARM MOUNTED AREA LIGHT, TYPE 3 DISTRIBUTION BASIS OF DESIGN: HUBBELL AIRO MICRO STRIKE ASL1-80L-50-3K7-5-0 6329 LUMENS, 49.7 WATTS, 3000 K CCT, MIN 70 CRI, 120 VOLT MOUNTING 6000 mm AFG (Ø100 mm POLE ON 900 mm ARTFORMS KELLAMY 610R BASE) B1-U0-C2
ZA2	ARM MOUNTED AREA LIGHT, TYPE 2 DISTRIBUTION BASIS OF DESIGN: HUBBELL AIRO MICRO STRIKE ASL1-80L-50-3K7-2-0 1898 LUMENS, 26.59 WATTS, 3000 K CCT, MIN 70 CRI, 120 VOLT MOUNTING 6000 mm AFG (Ø100 mm POLE ON 900 mm ARTFORMS KELLAMY 610R BASE) B0-U0-G1
ZW1	WALL MOUNT LUMINAIRE, TYPE 4 DISTRIBUTION BASIS OF DESIGN: HUBBELL GEOPAK SERIES 1, SIZE 1 TRP1-12L30-3K7-4 MOUNTING HEIGHT 3700 mm AFG 2774 LUMENS, 26.1 WATTS, 3000 K CCT, MIN 70 CRI, 120 VOLT B1-U0-G1
ZW2	WALL MOUNT LUMINAIRE, TYPE 2 DISTRIBUTION BASIS OF DESIGN: HUBBELL GEOPAK SERIES 1, SIZE 1 TRP1-12L15-3K7-2 MOUNTING HEIGHT 2700 mm AFG 1497 LUMENS, 13.9 WATTS, 3000 K CCT, MIN 70 CRI, 120 VOLT B1-U0-G1

**NOTES:**

- WHERE AN INCOMPLETE MODEL CAT NO. IS LISTED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.
- WHERE NOTED ABOVE THAT FIXTURES ARE TO HAVE FINISH TO SUIT ARCHITECT THE FINISH WILL BE SELECTED FROM MANUFACTURER'S OPTIONAL COLOUR CHART (i.e. RAL COLOURS OR EQUAL). PROVIDE THIS COLOUR CHART WITH SHOP DRAWING SUBMITTAL.
- SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.
- SEQUENCE OF OPERATION  
EACH LUMINAIRE SHALL BE CONTROLLED BY A PHOTOCELL OR TIME CLOCK DEVICE THAT AUTOMATICALLY TURNS OFF THE LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE. (ASHRAE 90.1-2013 9.4.1.4.a.)

**CALCULATION SUMMARY**

LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
BARRIER FREE PARKING	ILLUMINANCE	FC	3.49	4.0	3.0	1.16	1.33
DRIVE LANES	ILLUMINANCE	FC	1.03	1.6	0.4	2.58	4.00
PARKING	ILLUMINANCE	FC	1.76	3.1	0.8	2.20	3.88
RAMP	ILLUMINANCE	FC	1.73	4.2	1.0	1.73	4.20
SITE	ILLUMINANCE	FC	1.56	6.5	0.0	N.A.	N.A.
SPILL OF LIGHT BEYOND FENCE LINE	ILLUMINANCE	FC	0.00	0.1	0.0	N.A.	N.A.

No.	DATE	DESCRIPTION	CH'D
1	2021-MAY-27	ISSUED FOR SITE PLAN CONTROL	CB
1	2021-MAY-25	ISSUED FOR CLIENT REVIEW	CB

REVISIONS

BRIDOR  
Developments

BRIDOR DEVELOPMENTS  
996-B ST. AUGUSTIN RD  
EMBRUN, ON  
K0A 1W0

THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.

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PROJECT NORTH

2021-05-27  
C. K. BORCSOK  
100123244  
PROFESSIONAL ENGINEER  
PROVINCE OF ONTARIO

FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:  
NCR-21-RE-007@QUASARCG.COM

PROJECT

**2308 and 2396  
CLEROUX CRESCENT**

OTTAWA, ON

TITLE

**SITE LIGHTING PHOTOMETRIC PLAN**

CHECKED	CB	PROJECT No.	NCR-21-RE-007
SCALE	1:250	DRAWING No.	E101