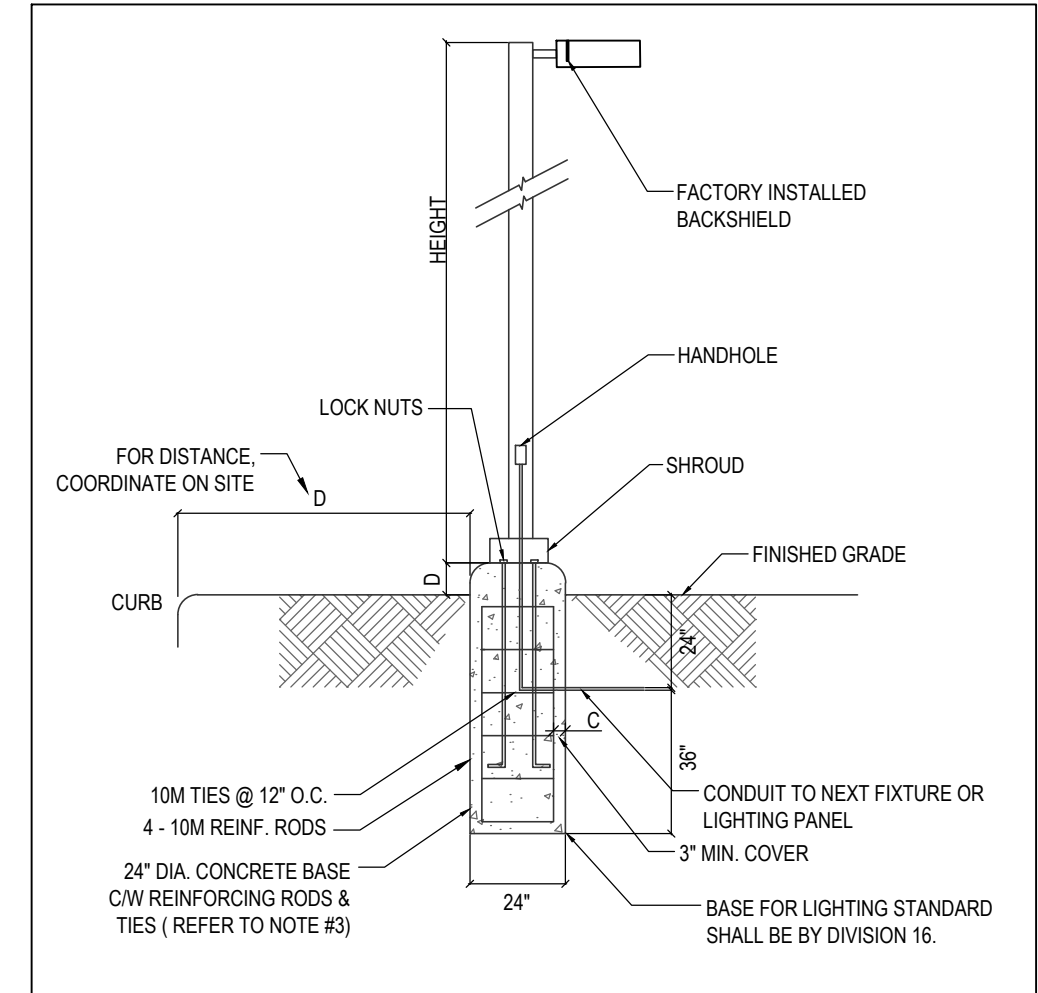
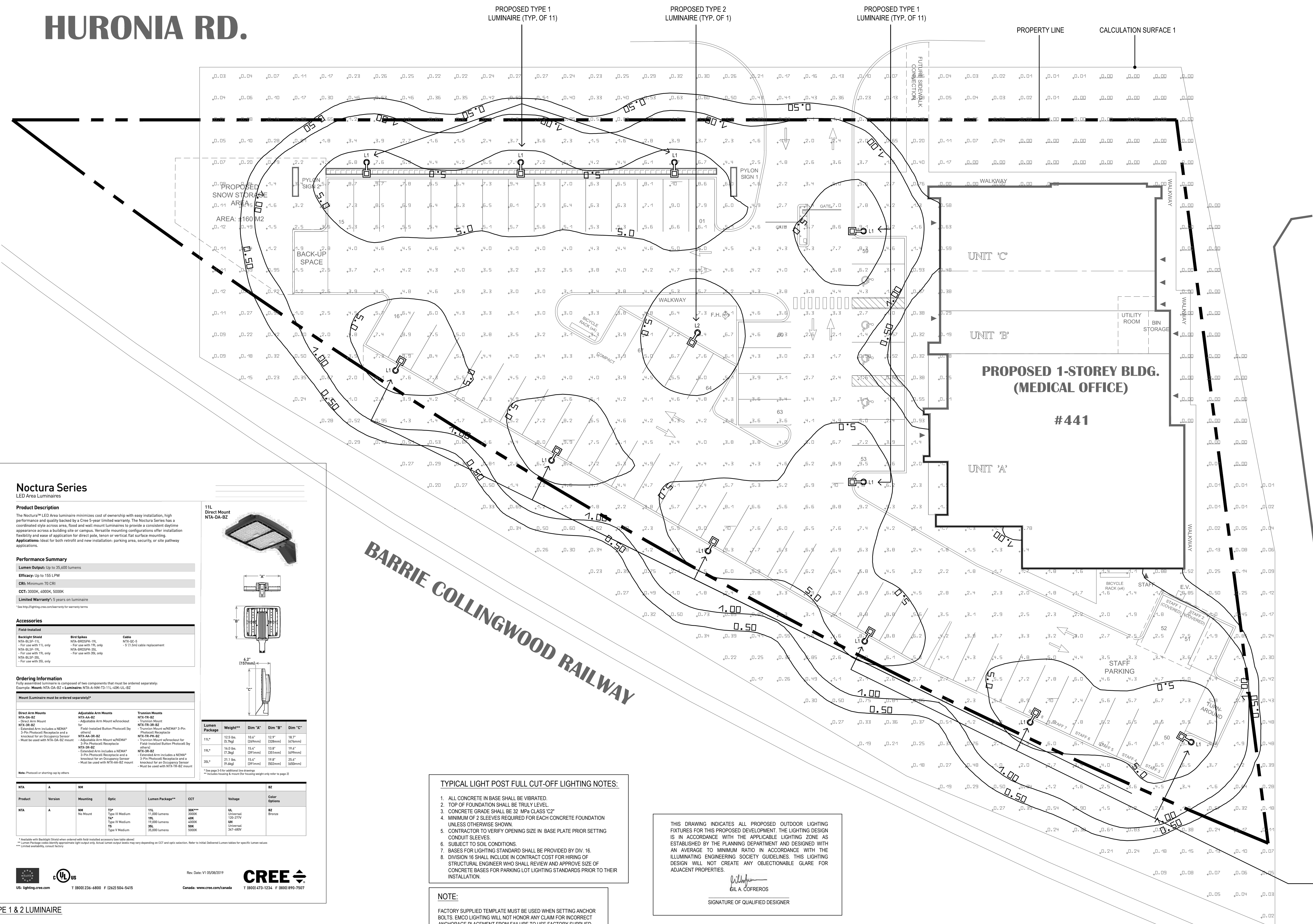


# HURONIA RD.



TYPICAL LIGHT POST FULL CUT-OFF LIGHTING  
SCALE: N.T.S.

REVISIONS		
NO.	DATE	DESCRIPTION
1		
2		
3		
2		
1	APR 2020	ISSUED FOR PERMIT.
NO.	DATE	TO

**ISSUED**

**DESIGNER:**  
GAC ENGINEERING SERVICES INC.  
695 MARHAM RD UNIT 12  
TORONTO, ON M1H 2A5  
OFFICE No. - (647) 748-5366  
CELL No. - (416) 710-8274  
gac.engineering@yahoo.ca

- DRAWING NOTES:**
- THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY DIMENSIONS ON SITE AND REPORT ERRORS AND OMISSIONS.
  - DRAWINGS MUST NOT BE SCALED. DRAWINGS ARE DIAGRAMMATIC CONCEPT OF THE DESIGN.
  - CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CONSISTENCY WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.

**CLIENT:**

**PROJECT TITLE:**  
COMMERCIAL DEVELOPMENT  
441 HURONIA RD  
BARRIE, ONTARIO

**DRAWING TITLE:**  
PHOTOMETRIC PLAN

**DRAWN BY:**  
A. C.

**CHECKED BY:**  
G. C.

**SCALE:**  
1/16" = 1'-0"

**DATE:**  
APRIL 2020

**PROJECT NO:**  
020029

**DRAWING NO:**  
SE-1

**Noctura Series**  
LED Area Luminaires

**Product Description**  
The Noctura™ LED Area luminaire minimizes cost of ownership with easy installation, high performance and quality backed by a Cree 5-year limited warranty. The Noctura Series has a coordinated style across area, flood and wall mount luminaires to provide a consistent daytime appearance across a building site or campus. Versatile mounting configurations offer installation flexibility and ease of application for direct pole, tenon or vertical flat surface mounting.

**Applications:** Ideal for both retrofit and new installation: parking area, security, or site pathway applications.

**Performance Summary**

- Lumen Output: Up to 35,000 lumens
- Efficiency: Up to 155 LPW
- CRI: Minimum 90 CRI
- CCT: 3000K, 4000K, 5000K
- Limited Warranty: 5 years on luminaire

**Accessories**

Field-installed	Best Back	Color
Backlight Shield NTA-BL-01-11L For use with 11L only NTA-BL-01-19L For use with 19L only NTA-BL-01-25L For use with 25L only	NTA-SH05PM-19L NTA-SH05PM-25L	NTX-02-5 * 3 1/2 inch color replacement

**Ordering Information**  
Fully assembled luminaires are composed of two components that must be ordered separately.  
Example: NTA-AA-B2 + Luminaire NTA-A-NM-T4-19L-40K-UL-BZ

**Mount (Luminaires must be ordered separately)\***

Direct Arm Mounts	Adjustable Arm Mounts	Truss Arm Mounts
NTA-AA-B2 Direct Arm Mount	NTA-AA-B2 Adjustable Arm Mount w/lockout 19" NTA-AA-3R-B2 Adjustable Arm Mount w/lockout 3-Pin NTA-AA-B2 Adjustable Arm Mount w/lockout 3-Pin NTA-AA-B2 Adjustable Arm Mount w/lockout 3-Pin	NTA-TR-B2 Truss Arm Mount NTA-TR-PR-B2 Truss Arm Mount w/lockout 3-Pin NTA-TR-B2 Truss Arm Mount w/lockout 3-Pin NTA-TR-B2 Truss Arm Mount w/lockout 3-Pin

Product	Version	Mounting	Optic	Lumen Package**	CCT	Voltage	BZ	Color Options
NTA	A	NM	T4*	11L 11,000 lumens 19L 19,000 lumens 25L 25,000 lumens	3000K 4000K 5000K	UL 120V/277V MH 120V/277V SAL-480V	BZ	Bronze

Rev. Date: V1 05/09/2019

USA: lighting.cree.com | 1 (800) 234-4800 | F (262) 504-5415 | Canada: www.cree.com/canada | T (800) 473-1234 | F (800) 890-7507

**BARRIE COLLINGWOOD RAILWAY**

- TYPICAL LIGHT POST FULL CUT-OFF LIGHTING NOTES:**
- ALL CONCRETE IN BASE SHALL BE VIBRATED.
  - TOP OF FOUNDATION SHALL BE TRULY LEVEL.
  - CONCRETE GRADE SHALL BE 32 MPa CLASS C2\*
  - MINIMUM OF 2 SLEEVES REQUIRED FOR EACH CONCRETE FOUNDATION UNLESS OTHERWISE SHOWN.
  - CONTRACTOR TO VERIFY OPENING SIZE IN BASE PLATE PRIOR SETTING CONDUIT SLEEVES.
  - SUBJECT TO SOIL CONDITIONS.
  - BASES FOR LIGHTING STANDARD SHALL BE PROVIDED BY DIV. 16.
  - DIVISION 16 SHALL INCLUDE IN CONTRACT COST FOR HIRING OF STRUCTURAL ENGINEER WHO SHALL REVIEW AND APPROVE SIZE OF CONCRETE BASES FOR PARKING LOT LIGHTING STANDARDS PRIOR TO THEIR INSTALLATION.

THIS DRAWING INDICATES ALL PROPOSED OUTDOOR LIGHTING FIXTURES FOR THIS PROPOSED DEVELOPMENT. THE LIGHTING DESIGN IS IN ACCORDANCE WITH THE APPLICABLE LIGHTING ZONE AS ESTABLISHED BY THE PLANNING DEPARTMENT AND DESIGNED WITH AN AVERAGE TO MINIMUM RATIO IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY GUIDELINES. THIS LIGHTING DESIGN WILL NOT CREATE ANY OBJECTIONABLE GLARE FOR ADJACENT PROPERTIES.

*Gil A. Cofreiros*  
GIL A. COFREROS  
SIGNATURE OF QUALIFIED DESIGNER

**NOTE:**

FACTORY SUPPLIED TEMPLATE MUST BE USED WHEN SETTING ANCHOR BOLTS. EMCO LIGHTING WILL NOT HONOR ANY CLAIM FOR INCORRECT ANCHORAGE PLACEMENT FROM FAILURE TO USE FACTORY SUPPLIED TEMPLATES.

**STATISTICS**

NAME	PARAMETER	MIN	MAX	AVERAGE
CALCULATION SURFACE 1	PERPENDICULAR ILLUMINANCE	0.00 FC	10.33 FC	2.8 FC

**LUMINAIRE SCHEDULE**

TYPE	MANUFACTURER	DESCRIPTION	MODEL NUMBER	AVERAGE WATTAGE	LUMEN OUTPUT	LIGHT LOSS FACTOR	CCT	DISTRIBUTION TYPE	QUANTITY	MOUNTING HEIGHT
L1	CREE	NOCTURA SERIES LED AREA LUMINAIRES	NTA-A-NM-T4-19L-40K-UL-BZ	130 W	19,000 lm	0.80	40K	4	11	20 FT
L2	CREE	NOCTURA SERIES LED AREA LUMINAIRES	NTA-A-NM-T5-19L-40K-UL-BZ	130 W	19,000 lm	0.80	40K	5	1	20 FT

EQUIPMENT AS LISTED OR EQUIVALENT