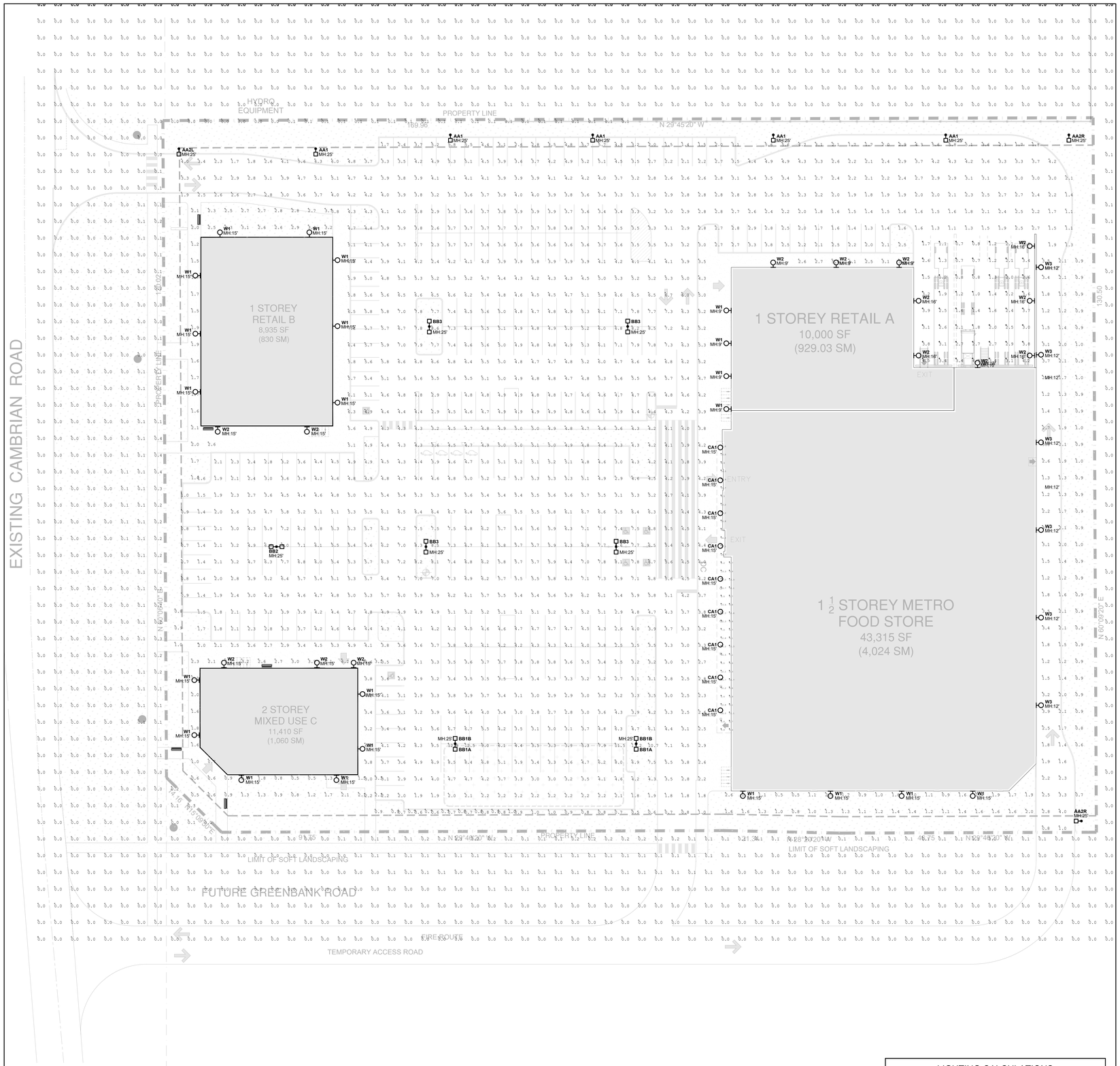


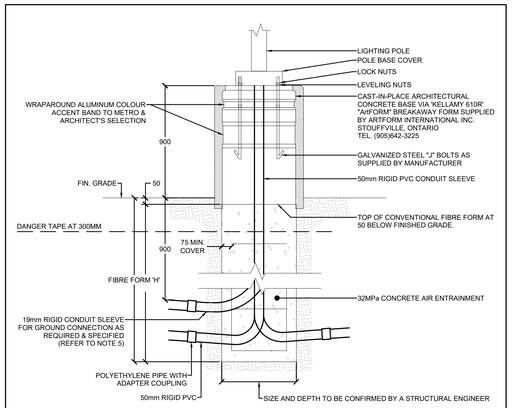
1 ELECTRICAL SITE LIGHTING PHOTOMETRICS
ESP1.0 SCALE = 1:300

LIGHTING CALCULATIONS

AREA	AVERAGE	MAXIMUM	MINIMUM	AVG/MIN	MAX/MIN
SITE (PARKING)	4.24 fc	13.2 fc	0.5fc	8.48	26.40
CANOPY	10.17 fc	16.2 fc	2.6 fc	3.91	6.23
TRUCK/LOADING	2.32 fc	4.5 fc	0.7fc	3.31	6.43
PERIMETER	1.86 fc	6.5 fc	0.5fc	3.72	13.00
LIGHT TRESPASS	0.01 fc	0.4 fc	0.0fc	-	-

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION
AA1	POLE MOUNTED LED SINGLE HEAD LUMINAIRE WITH FULL CUT OFF. SINGLE LED LUMINAIRE WITH BACKLIGHT CONTROL, SUITABLE FOR 347V OPERATION, ON A 22'-0' POLE WITH A POLE BASE COVER ON A 36" HIGH CONCRETE BASE. COLOUR OF FINISH FOR POLE AND HEAD TO ARCHITECT & OWNER'S SELECTION. 64 LED/4 MODULE @ 800mA DRIVE CURRENT, NEUTRAL WHITE 4000K, 70 CRI, ARM MOUNT WITH BACKLIGHT CONTROL DISTRIBUTION. NOMINAL 16000 LUMEN, 153 WATTS. PROVIDE BACKLIGHT SHIELD. SIGNIFY CAT.# P26-64L-800-NW-G2-BLC
AA2L	POLE MOUNTED LED SINGLE HEAD LUMINAIRE WITH FULL CUT OFF. SINGLE LED LUMINAIRE WITH LEFT SIDE LIGHT CONTROL, SUITABLE FOR 347V OPERATION, ON A 22'-0' POLE WITH A POLE BASE COVER ON A 36" HIGH CONCRETE BASE. COLOUR OF FINISH FOR POLE AND HEAD TO ARCHITECT & OWNER'S SELECTION. 64 LED/4 MODULE @ 800mA DRIVE CURRENT, NEUTRAL WHITE 4000K, 70 CRI, ARM MOUNT WITH LEFT SIDE LIGHT CONTROL DISTRIBUTION. NOMINAL 5200 LUMEN, 153 WATTS. PROVIDE LIGHT CONTROL SHIELD. SIGNIFY CAT.# P26-64L-800-NW-G2-LCL (LEFT)
AA2R	POLE MOUNTED LED SINGLE HEAD LUMINAIRE WITH FULL CUT OFF. SINGLE LED LUMINAIRE WITH RIGHT SIDE LIGHT CONTROL, SUITABLE FOR 347V OPERATION, ON A 22'-0' POLE WITH A POLE BASE COVER ON A 36" HIGH CONCRETE BASE. COLOUR OF FINISH FOR POLE AND HEAD TO ARCHITECT & OWNER'S SELECTION. 64 LED/4 MODULE @ 800mA DRIVE CURRENT, NEUTRAL WHITE 4000K, 70 CRI, ARM MOUNT WITH RIGHT SIDE LIGHT CONTROL DISTRIBUTION. NOMINAL 5200 LUMEN, 153 WATTS. PROVIDE LIGHT CONTROL SHIELD. SIGNIFY CAT.# P26-64L-800-NW-G2-LCR (RIGHT)
BB1A	POLE MOUNTED LED SINGLE HEAD LUMINAIRE WITH FULL CUT OFF. TWO LED LUMINAIRES MOUNTED BACK TO BACK, SUITABLE FOR 347V OPERATION, ON A 22'-0' POLE WITH A POLE BASE COVER ON A 36" HIGH CONCRETE BASE. COLOUR OF FINISH FOR POLE AND HEAD TO ARCHITECT & OWNER'S SELECTION. 64 LED/4 MODULE @ 800mA DRIVE CURRENT, NEUTRAL WHITE 4000K, 70 CRI, ARM MOUNT WITH TYPE 2 LIGHT DISTRIBUTION. NOMINAL 21000 LUMEN, 153 WATTS. SIGNIFY CAT.# P26-64L-800-NW-G2-2
BB1B	POLE MOUNTED LED SINGLE HEAD LUMINAIRE WITH FULL CUT OFF. LED LUMINAIRES MOUNTED TO POLE, SUITABLE FOR 347V OPERATION, ON A 22'-0' POLE WITH A POLE BASE COVER ON A 36" HIGH CONCRETE BASE. COLOUR OF FINISH FOR POLE AND HEAD TO ARCHITECT & OWNER'S SELECTION. 64 LED/4 MODULE @ 800mA DRIVE CURRENT, NEUTRAL WHITE 4000K, 70 CRI, ARM MOUNT WITH TYPE 4 LIGHT DISTRIBUTION. NOMINAL 21000 LUMEN, 153 WATTS. SIGNIFY CAT.# P26-64L-800-NW-G2-4
BB2	POLE MOUNTED LED DOUBLE HEAD (BACK TO BACK) LUMINAIRE WITH FULL CUT OFF. TWO LED LUMINAIRES MOUNTED BACK TO BACK, SUITABLE FOR 347V OPERATION, ON A 22'-0' POLE WITH A POLE BASE COVER ON A 36" HIGH CONCRETE BASE. COLOUR OF FINISH FOR POLE AND HEAD TO ARCHITECT & OWNER'S SELECTION. 64 LED/4 MODULE @ 800mA DRIVE CURRENT, NEUTRAL WHITE 4000K, 70 CRI, ARM MOUNT WITH TYPE 3 LIGHT DISTRIBUTION. NOMINAL 20000 LUMEN, 153 WATTS. SIGNIFY CAT.# P26-64L-800-NW-G2-3
BB3	POLE MOUNTED LED DOUBLE HEAD (BACK TO BACK) LUMINAIRE WITH FULL CUT OFF. TWO LED LUMINAIRES MOUNTED BACK TO BACK, SUITABLE FOR 347V OPERATION, ON A 22'-0' POLE WITH A POLE BASE COVER ON A 36" HIGH CONCRETE BASE. COLOUR OF FINISH FOR POLE AND HEAD TO ARCHITECT & OWNER'S SELECTION. 128 LED/8 MODULE @ 1050mA DRIVE CURRENT, NEUTRAL WHITE 4000K, 70 CRI, ARM MOUNT WITH TYPE 5W LIGHT DISTRIBUTION. NOMINAL 48000 LUMEN, 414 WATTS. SIGNIFY CAT.# P34-128L-1050-NW-G2-5W
CA1	CANOPY DOWNLIGHT LED LUMINAIRE. 6" ROUND DOWNLIGHT, NOMINAL 2500 LUMEN, 80CRI, 3500K COLOUR TEMPERATURE WITH MEDIUM DISTRIBUTION, WITH SPECULAR CLEAR FINISH AND WHITE FLANGE. FLANGE TO BE CONFIRMED BY ARCHITECT AND OWNER. SIGNIFY FRAME CAT.# C6RN SIGNIFY ENGINE CAT.# C6L-25-8-35-M- SIGNIFY TRIM CAT.# C6-R-DL-CL--
W1	LED WALL SCONCE LUMINAIRE WITH FULL CUT OFF. 16 LED/1 MODULE @ 200mA DRIVE CURRENT, NEUTRAL WHITE 4000K, 70 CRI WITH TYPE 2 LIGHT DISTRIBUTION. NOMINAL 1500 LUMEN, 12 WATTS. BLACK FINISH TO BE CONFIRMED BY ARCHITECT AND OWNER. SIGNIFY CAT.# 121-16L-200-NW-G4-2
W2	LED WALL SCONCE LUMINAIRE WITH FULL CUT OFF. 16 LED/1 MODULE @ 530mA DRIVE CURRENT, NEUTRAL WHITE 4000K, 70 CRI WITH TYPE 4 LIGHT DISTRIBUTION. NOMINAL 3200 LUMEN, 28 WATTS. BLACK FINISH TO BE CONFIRMED BY ARCHITECT AND OWNER. SIGNIFY CAT.# 121-16L-530-NW-G4-4
W3	LED WALL SCONCE LUMINAIRE WITH FULL CUT OFF. 16 LED/1 MODULE @ 530mA DRIVE CURRENT, NEUTRAL WHITE 4000K, 70 CRI WITH TYPE 3 LIGHT DISTRIBUTION. NOMINAL 3200 LUMEN, 28 WATTS. BLACK FINISH TO BE CONFIRMED BY ARCHITECT AND OWNER. SIGNIFY CAT.# 121-16L-530-NW-G4-3



NOTES:

1. DIMENSIONS SHOWN ARE IN MILLIMETRES, UNLESS OTHERWISE NOTED.
2. CLASS OF CONCRETE SHALL BE 32mPa AIR ENTRAINMENT.
3. MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONC. FOUNDATION UNLESS OTHERWISE SHOWN.
4. CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES. CONTRACTOR TO PROVIDE STRUCTURAL ENGINEER APPROVAL FOR BASE DESIGN.
5. SUBJECT TO SOIL CONDITIONS, REFER TO SOIL REPORT.
6. FORM RELEASE AGENT HAS BEEN FACTORY-APPLIED TO INSIDE SURFACE OF "ArtFORM".
7. WHERE APPLICABLE, THIS DETAIL DRAWING SHOULD BE MODIFIED TO MEET LOCAL REQUIREMENTS. RETAIN STRUCTURAL ENGINEER TO PROVIDE CONCRETE SPECIFICATIONS AND SUPPORT.

POLE LENGTH m	BURIAL DEPTH H m	ROD LENGTH m	A mm	NO. OF 10M TIES @450mm C/C	BOLT CIRCLE DIA FOR METAL POLES		
					ALUMINUM	STEEL	SECTIONAL STEEL
5.6	2.15	2.00	100	3	N/A	N/A	449
7.0	2.15	2.00	100	3	N/A	N/A	449
7.5	2.15	2.00	100	3	406	406	N/A
8.7	2.45	2.30	250	3	N/A	N/A	449
9.0	2.45	2.30	0	4	406	406	N/A
10.5	2.60	2.45	100	4	406	406	449
12.0	2.75	2.60	150	4	406	406	N/A
13.6	2.90	2.75	0	5	406	406	N/A
15.1	3.05	2.90	100	5	406	406	N/A

2 TYPICAL CONCRETE BASE FOR POLE MOUNTED SITE LUMINAIRE
ESP1.0 SCALE = N.T.S.

DO NOT SCALE DRAWINGS. OBTAIN INFORMATION INVOLVING ACCURATE DIMENSIONS TO STRUCTURE FROM DIMENSIONS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS, OR BY SITE MEASUREMENTS. SITE PLAN LAYOUT TO BE OBTAINED FROM ARCHITECT OR CIVIL ENGINEER. CONSULT GENERAL CONSTRUCTION DRAWINGS AS WELL AS DETAIL DRAWINGS TO BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE WORK, AND VERIFY SPACES IN WHICH THE WORK WILL BE INSTALLED.

NO.	REVISION	DATE	BY

NO.	ISSUED FOR	DATE	BY
3.	ISSUED FOR CITY REVIEW	2021.04.09	AH
2.	ISSUED FOR REVIEW	2021.01.29	AH
1.	ISSUED FOR REVIEW	2020.12.18	AH

STAMP:

PROJECT:
SITE DEVELOPMENT
GREENBANK & CAMBRIAN ROAD,
OTTAWA, ON

TITLE:
ELECTRICAL SITE
LIGHTING PHOTOMETRICS

PROJECT NO.: 20-044-024

DATE: DEC/2020 DRAWN BY: AH

SCALE: AS SHOWN CHK'D BY: AH

SHEET NO.:

ESP1.0