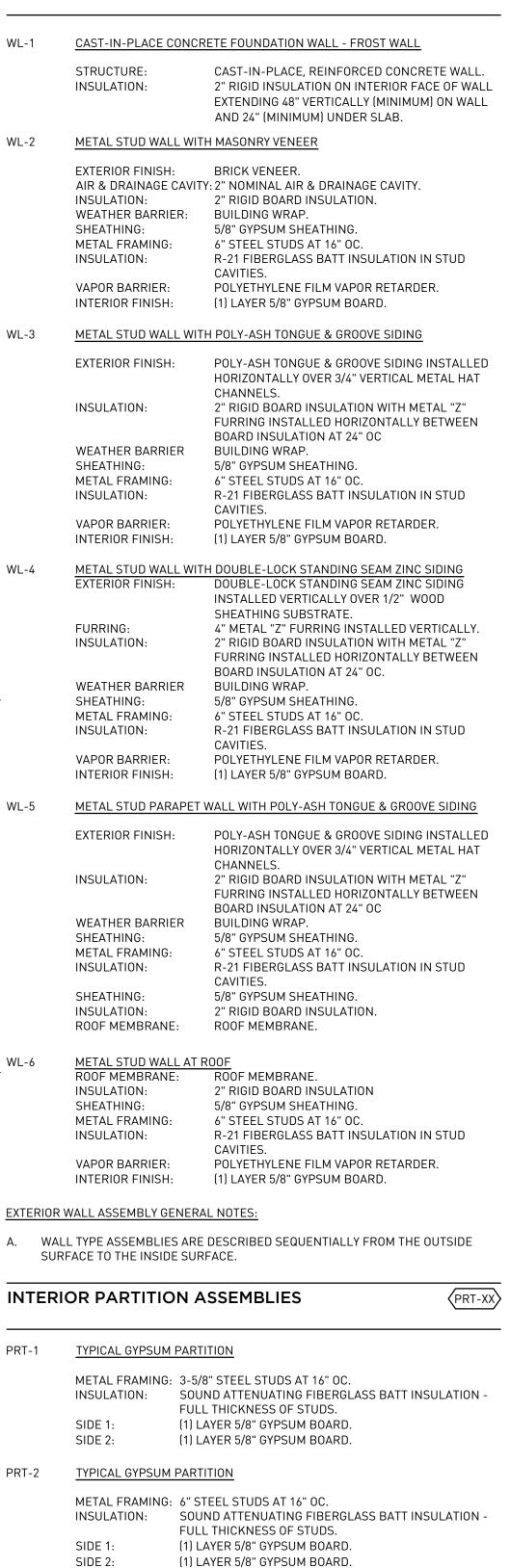


### FLOOR PLAN **GENERAL NOTES**

- A. EXTERIOR DIMENSIONS ON FLOOR PLAN ARE NOMINAL AND ARE BASED ON FACE-OF-MASONRY TO FACE-OF-MASONRY. INTERIOR DIMENSIONS ON FLOOR PLAN ARE NOMINAL AND ARE BASED ON FACE-OF-WALL TO FACE-OF-WALL.
- B. EXTERIOR WALL TYPE ASSEMBLIES ARE DESCRIBED SEQUENTIALLY FROM THE OUTSIDE SURFACE TO THE INSIDE SURFACE.
- C. SEAL ALL WALL PENETRATIONS AT PERIMETER AND FIRESTOP ALL FIRE RATED PARTITIONS.
- D. 100'-0" ELEVATION IS EQUIVALENT TO CIVIL XX'-X", REFER TO CIVIL DRAWINGS.

### **EXTERIOR WALL ASSEMBLIES**





TYPICAL GYPSUM PARTITION

METAL FRAMING: 6" STEEL STUDS AT 16" OC. FURRING: 2 <del>§</del>" WOOD FURRING SIDE 1: (1) LAYER 5/8" GYPSUM BOARD. SIDE 2: (1) LAYER 5/8" GYPSUM BOARD.

GENERAL NOTES:

A. ALL INTERIOR PARTITIONS TO BE PRT-1 UNLESS NOTED OTHERWISE.

TREDO GROUP 219 N MILWAUKEE ST SUITE 630

> 53202 (414) 539 3336 TREDOGROUP.COM

(WL-XX)

MILWAUKEE WISCONSIN

PROJECT NAME LIVING WORD

```
XXX XXXXXXXXXXXXX
WAUKESHA
WISCONSIN 53188
```

DRAWING ISSUE HISTORY CD xx-xx-2019 CONSTRUCTION SET

SET ТҮРЕ CD SET

AA PROJECT NUMBER 16023

DATE 02-25-2019

SHEET TITLE FLOOR PLAN

SHEET NUMBER

WL-3 WL-4 AL-11 (106C)WL-5 WL-3 A200 (WL-3) WL-6 AL-11 (116D) - ₩L-3 \_\_\_\_<u>\</u>\_\_\_ 🔇 WL-2 🔪 PRT-2 AL-04 WL-2 PRT-3 LINE OF TRELLIS ABOVE

\_

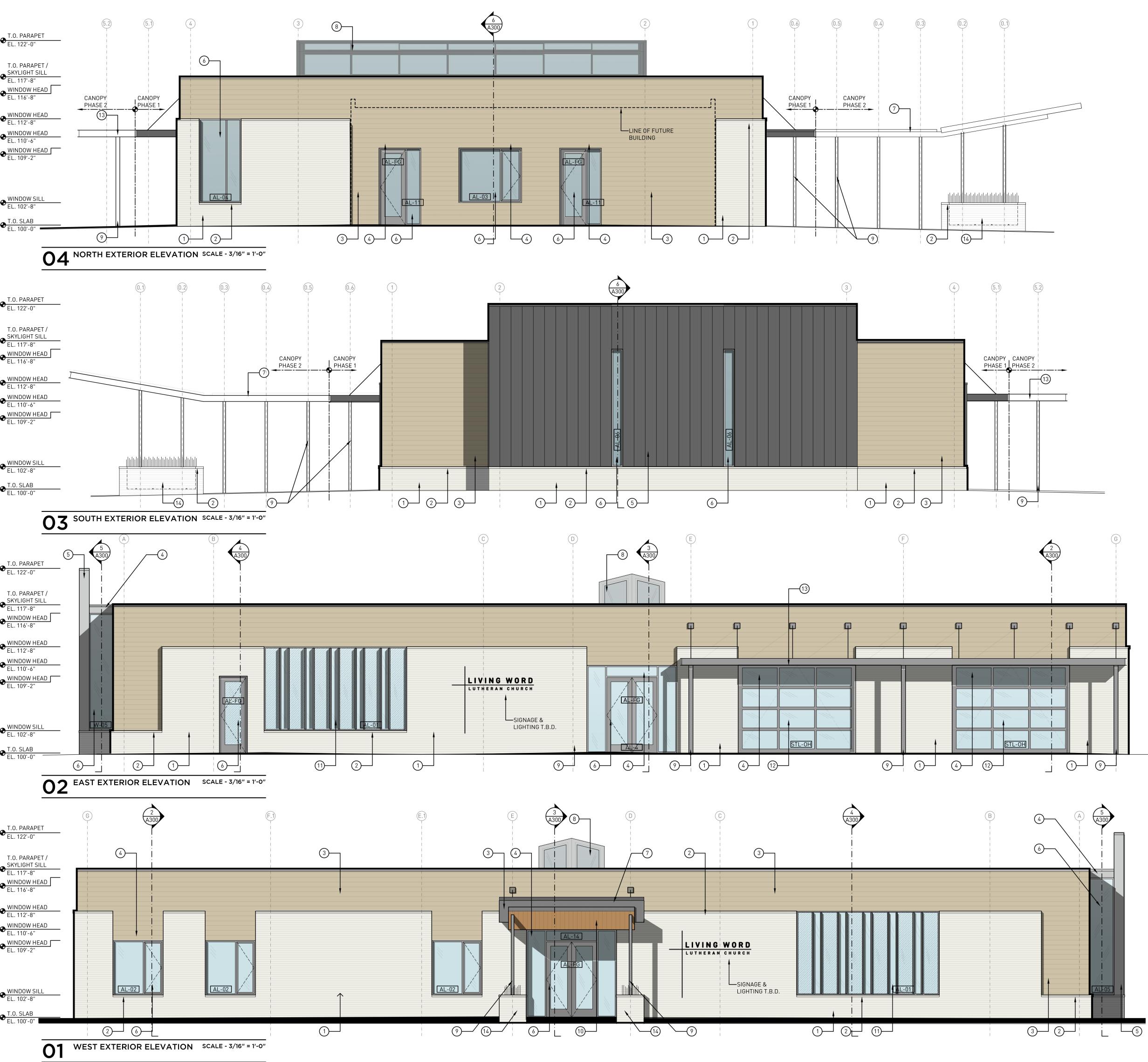
01

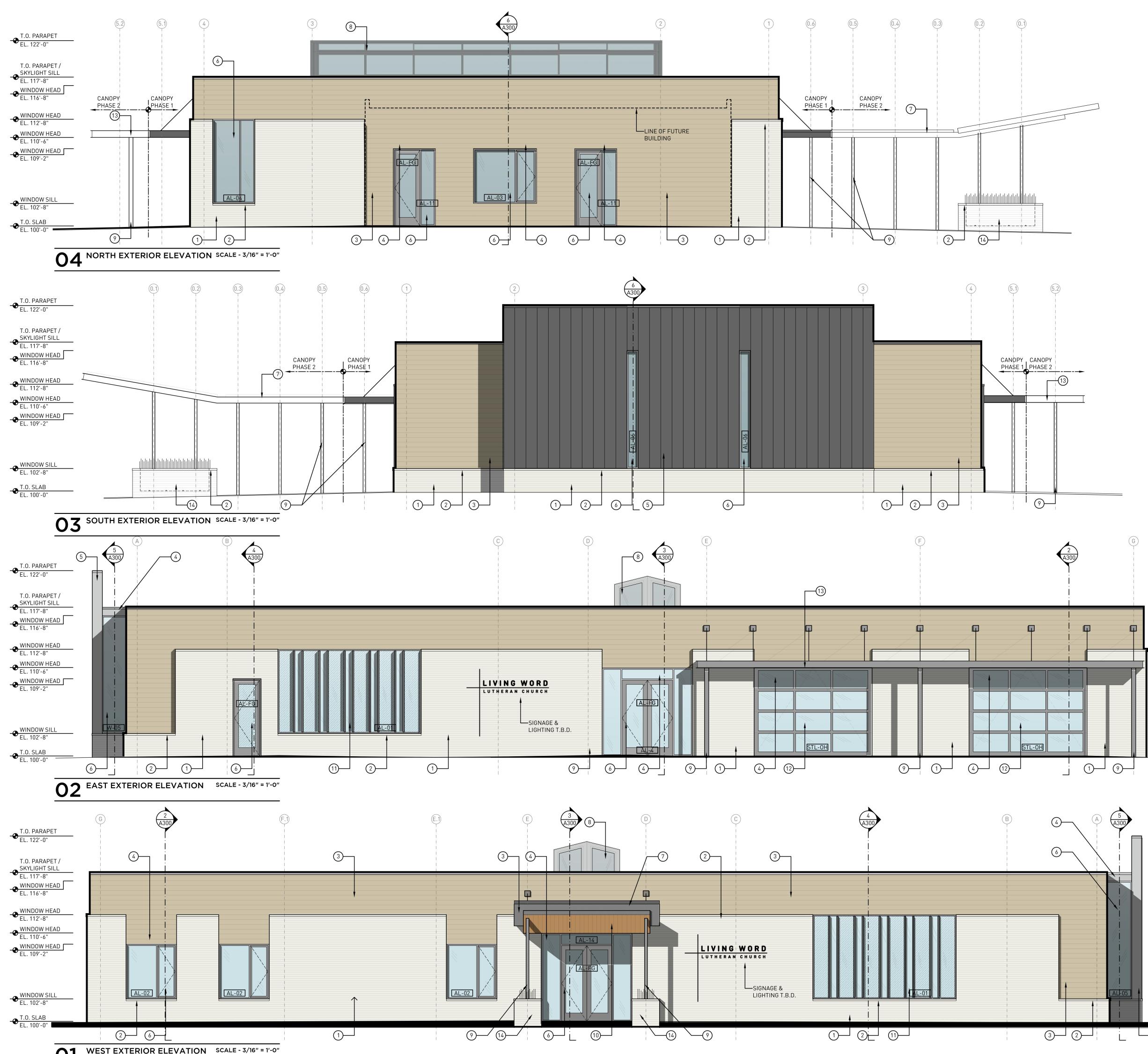


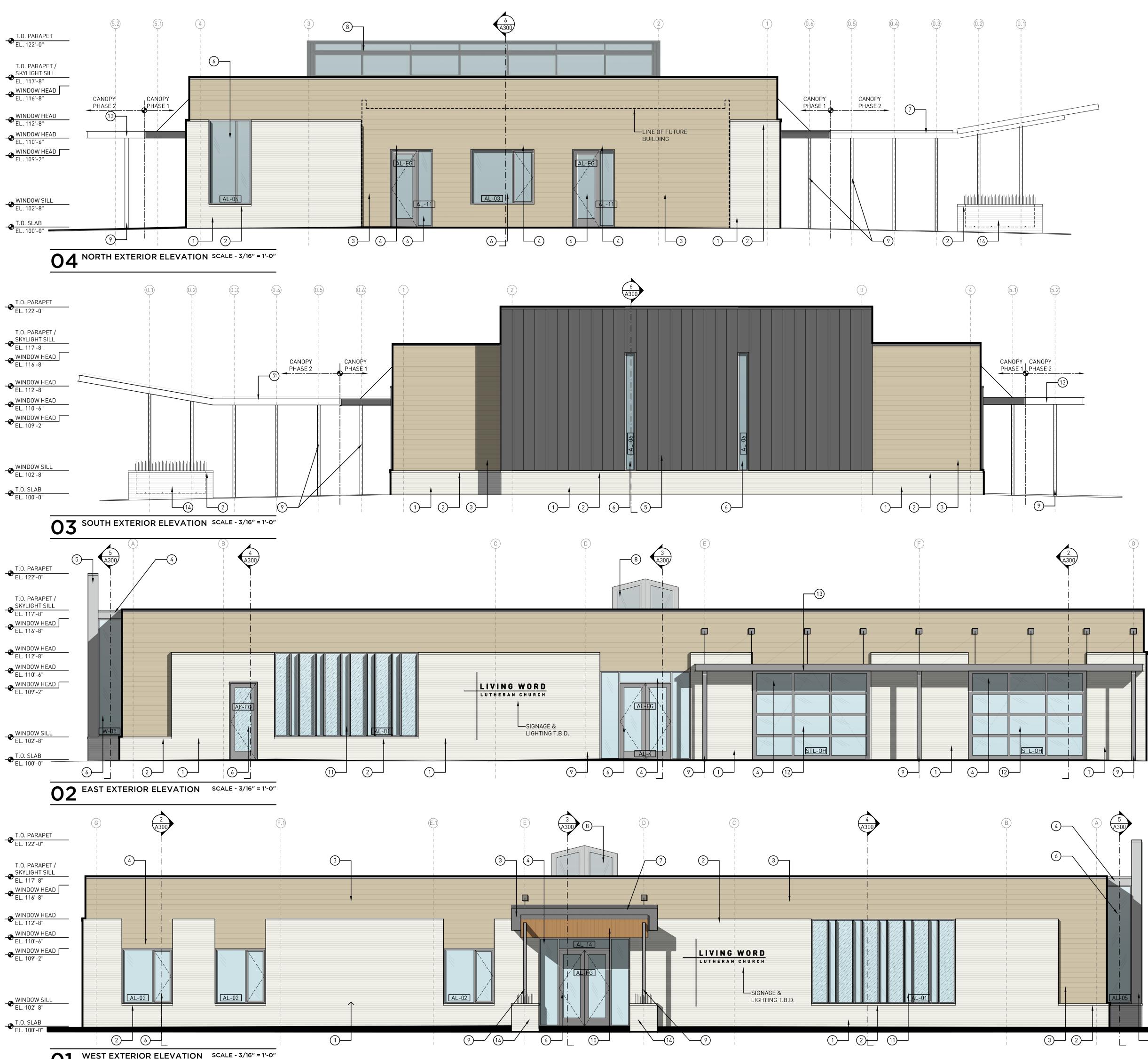
SCALE - 1/8" = 1'-0"

### EXTERIOR ELEVATION KEYNOTES

- 1. MODULAR BRICK VENEER
- 2. PRECAST STONE SILL
- 3. POLY-ASH SIDING
- 4. POLY-ASH TRIM
- 5. DOUBLE-LOCK STANDING SEAM ZINC SIDING
- 6. ALUMINUM STOREFRONT SYSTEM
- 7. METAL CANOPY FASCIA
- 8. SKYLIGHT
- 9. STEEL COLUMN PAINTED
- 10. FLUSH COMPOSITE WOOD SIDING
- 11. ALUMINUM STOREFRONT SYSTEM W/ VERTICAL FINS
- 12. ALUMINUM GARAGE DOOR SYSTEM
- 13. STEEL TRELLIS CANOPY
- 14. MODULAR BRICK VENEER PLANTER WALL









219 N MILWAUKEE ST SUITE 630 MILWAUKEE WISCONSIN 53202

> (414) 539 3336 TREDOGROUP.COM

DRAWING ISSUE HISTORY CD xx-xx-2019 CONSTRUCTION SET

PROJECT NAME

LIVING WORD

XXX XXXXXXXXXXX WAUKESHA WISCONSIN 53188

### SET TYPE CD SET

AA PROJECT NUMBER 16023

DATE 02-25-2019

SHEET TITLE EXTERIOR ELEVATIONS

SHEET NUMBER



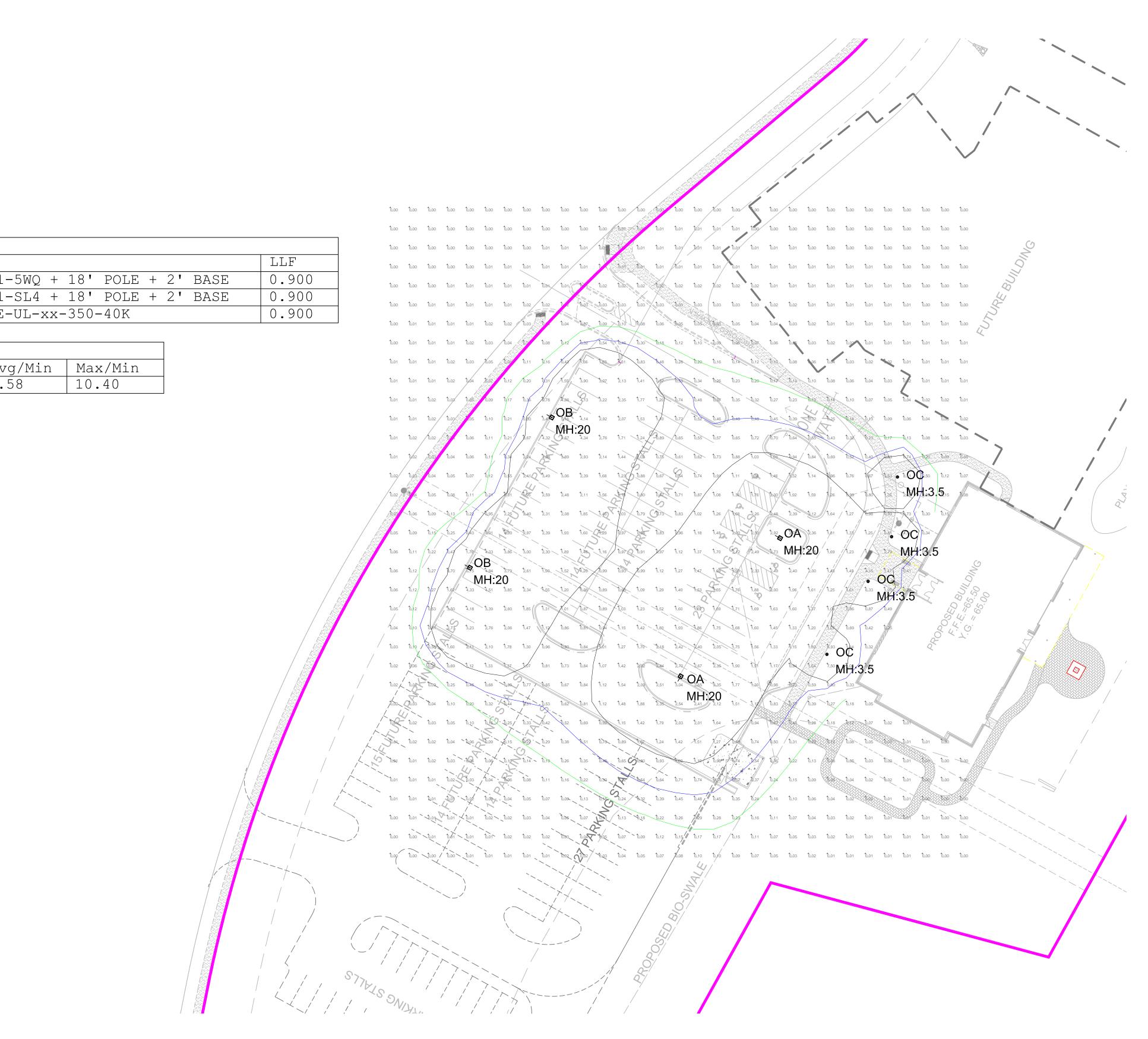
### Luminaire Schedule

Qty	Label	Manufacturer	Description
2	OA	McGraw-Edison	GLEON-AF-03-LED-E1-
2	OB	McGraw-Edison	GLEON-AF-03-LED-E1-
4	OC	Cree	PWY-EDG-5M-P4-02-E-

Calculation Summary

earearaeren eanmarj				
Label	Avg	Max	Min	Avo
Parking Lot	1.79	5.2	0.5	3.5

# SIGHT LIGHTING PLAN CALCS



# Cree Edge<sup>™</sup> Series

LED Pathway Luminaire

#### **Product Description**

Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance. Pole mounts to rugged die cast aluminum internal flange secured by three 3/8" - 16x6" anchor bolts with 1-1/4" hook (provided). **Note:** T45 Torx 3/8" socket required for head installation. Top mounted LEDs for superior optical performance and light control.

Applications: Landscape, walk-ways and general site lighting

#### **Performance Summary**

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

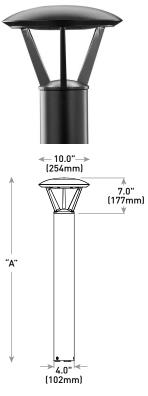
CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty<sup>+</sup>: 10 years on luminaire/10 years on Colorfast DeltaGuard<sup>®</sup> finish

+See http://lighting.cree.com/warranty for warranty terms

#### Accessories

Field-Installed		
Upgrade Kit - Used for replac XA-XBP8RSV XA-XBP8RBK	ement of existing bollards with a bolt ho XA-XBP8RWH XA-XBP8RBZ	le circle of 5.75" (146mm)



Model	Dim. "A"	Weight*			
Landscape (P0)	13" (330mm)	12.7 lbs. (5.8kg)			
Landscape (P1)	18" (457mm)	13.3 lbs. (6.0kg)			
Pathway (P3)	36" (914mm)	17.9 lbs. (8.1kg)			
Pathway (P4)	42" (1068mm)	18.6 lbs. (8.4kg)			
Pedestrian (P8)	96" (2438mm)	28.4 lbs (12.9kg)			
* Add 4.5 lbs. (2.0kg) for 347-480V					

#### Ordering Information

Example: PWY-EDG-2M-P0-02-E-UL-SV-350

PWY-EDG			02	E				
Product	Optic	Mounting	LED Count (x9)	Series	Voltage	Color Options	Drive Current	Options
PWY-EDG	2M Type II Medium 3M Type III Medium 5M Type V Medium 5S Type V Short	P0 13" (330mm) landscape P1 18" (457mm) landscape P3 36" (914mm) pathway P4 42" (1067mm) pathway P8 96" (2438mm) pedestrian	02	E	UL Universal 120-277V UH* Universal 347-480V - Available with P3, P4, and P8 mounts only 12 120V 27 277V	BK Black Bronze SV Silver WH White	350 350mA 525 525mA - Available with P1, P3, P4, and P8 mounts only	<ul> <li>F Fuse         <ul> <li>When code dictates fusing, use time delay fuse</li> <li>Refer to ML spec sheet for availability with ML options</li> </ul> </li> <li>HI Hi/Low (Dual Circuit Input)         <ul> <li>Available with UL voltage and 525mA driver current only</li> <li>Refer to HL spec sheet for details</li> <li>Sensor not included</li> </ul> </li> <li>TL Two-Level (175/525 w/integrated sensor control)         <ul> <li>Available with 12 or 27 voltages only</li> <li>Refer to TL spec sheet for details</li> </ul> </li> <li>Turo-Level (0/350 w/integrated sensor control)         <ul> <li>Available with 12 or 27 voltages only</li> <li>Refer to TL spec sheet for details</li> </ul> </li> <li>TL3 Two-Level (0/525 w/integrated sensor control)         <ul> <li>Available with 12 or 27 voltages only</li> <li>Refer to TL spec sheet for details</li> </ul> </li> <li>TL3 Two-Level (0/525 w/integrated sensor control)         <ul> <li>Available with 12 or 27 voltages only</li> <li>Refer to TL spec sheet for details</li> </ul> </li> <li>WB Welded Base Plate         <ul> <li>Standard on P8 mount option, available with P3 and P4 mount             <ul> <li>Includes welded base cover</li> <li>4000K Color Temperature             <ul> <li>Minum 70 CRI</li> <li>Color temperature per luminaire</li> </ul> </li> </ul></li></ul></li></ul>

\* 347-480V utilizes magnetic step-down transformer. For input power for 347-480V, refer to the Electrical Data table





Rev. Date: V5 08/11/2016



# LIGHT BOLLARD

US: lighting.cree.com/lighting T (8

T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada

# LIGHT BOLLARD

#### Cree Edge™ LED Pathway Luminaire

#### **Product Specifications**

#### **CONSTRUCTION & MATERIALS**

- Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance
- Pole mounts to rugged die cast aluminum internal flange secured by three 3/8"-16x6" anchor bolts with 1-1/4" hook[provided].
   Note: T45 Torx 3/8" socket required for head installation
- Top mounted LEDs for superior optical performance and light control
- Exclusive Colorfast DeltaGuard<sup>®</sup> finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- Weight: See Dimension and Weight Chart on pages 1 and 4

#### ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load at 120V
- Total Harmonic Distortion: < 20% at full load at 120V
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

#### **REGULATORY & VOLUNTARY QUALIFICATIONS**

- cULus Listed
- Suitable for wet locations
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details

Electrical Data* (A)								
			Total Cu	ırrent				
LED Count (x9)	System Watts 120-277V	System Watts 347-480V	120V	208V	240V	277V	347V	480V
350mA								
02	22	28	0.18	0.12	0.10	0.10	0.09	0.13
525mA								
02	34	40	0.29	0.19	0.17	0.15	0.12	0.13

\* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

#### Recommended Cree Edge<sup>™</sup> Series Lumen Maintenance Factors (LMF)<sup>1</sup>

Ambient	Initial LMF	25K hr Projected <sup>2</sup> LMF	50K hr Projected² LMF	75K hr Calculated³ LMF	100K hr Calculated³ LMF
5°C (41°F)	1.04	0.99	0.97	0.95	0.93
10°C (50°F)	1.03	0.98	0.96	0.94	0.92
15°C (59°F)	1.02	0.97	0.95	0.93	0.91
20°C (68°F)	1.01	0.96	0.94	0.92	0.90
25°C (77°F)	1.00	0.95	0.93	0.91	0.89

<sup>1</sup>Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing <sup>2</sup>In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ([DUT] i.e. the packaged LED chip)

Packaged LED chip) <sup>3</sup>In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ([DUT] i.e. the packaged LED chip)



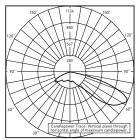
# LIGHT BOLLARD

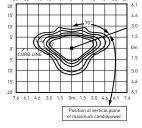
#### Cree Edge™ LED Pathway Luminaire

#### Photometry

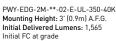
All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/bollards-and-pathway/cree-edge-pathway

#### 2M





RESTL Test Report #: PL5758-001 PWY-EDG-2M-\*\*-02-E-UL-350-40K Initial Delivered Lumens: 1.549



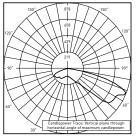
Type II Medium Distribution					
	4000K		5700K		
LED Count (x9)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	
350mA					
02	1,565	B1 U0 G1	1,625	B1 U0 G1	
525mA					
02	2,191	B1 U0 G1	2,276	B1 U0 G1	

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered

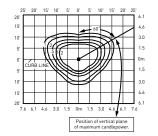
lumens \*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:

www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

#### 3M



RESTL Test Report #: PL5698-001 PWY-EDG-3M-\*\*-02-E-UL-350-40K Initial Delivered Lumens: 1,470



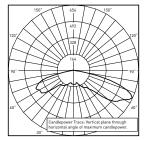
PWY-EDG-3M-\*\*-02-E-UL-350-40K Mounting Height: 3' (0.9m) A.F.G. Initial Delivered Lumens: 1,389 Initial FC at grade

Type III Medium Distribution						
	4000K		5700K			
LED Count (x9)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11		
350mA						
02	1,389	B1 U0 G1	1,442	B1 U0 G1		
525mA						
02	1,944	B1 U0 G1	2,019	B1 U0 G1		

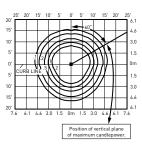
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

5M



RESTL Test Report #: PL5798-001 PWY-EDG-5M-\*\*-02-E-UL-350-40K Initial Delivered Lumens: 1,780



PWY-EDG-5M-\*\*-02-E-UL-350-40K Mounting Height: 3' (0.9m) A.F.G. Initial Delivered Lumens: 1,666 Initial FC at grade

Type V Medium Distribution						
	4000K		5700K			
LED Count (x9)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11		
350mA						
02	1,666	B1 U2 G1	1,730	B1 U2 G1		
525mA						
02	2,333	B2 U2 G2	2,422	B2 U2 G2		

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf





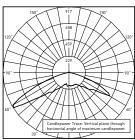
# LIGHT BOLLARD

#### Cree Edge™ LED Pathway Luminaire

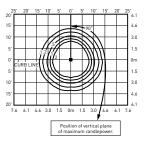
#### Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/bollards-and-pathway/cree-edge-pathway

**5**S



RESTL Test Report #: PL5759-001 PWY-EDG-5S-\*\*-02-E-UL-350-40K Initial Delivered Lumens: 1.897



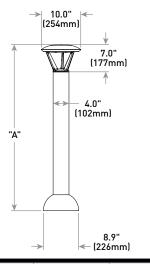
PWY-EDG-5S-\*\*-02-E-UL-350-40K Mounting Height: 3' (0.9m) A.F.G. Initial Delivered Lumens: 1,868 Initial FC at grade

Type V Short Distribution						
	4000K		5700K			
LED Count (x9)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11		
350mA		·	·			
02	1,868	B1 U2 G1	1,940	B1 U2 G1		
525mA						
02	2,615	B1 U2 G1	2,716	B1 U2 G1		

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered

\*\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

#### with Welded Base



Model	Dim. "A"	Weight*			
Pathway (P3)	36" (914mm)	17.9 lbs. (8.1kg)			
Pathway (P4)	42" (1068mm)	18.6 lbs. (8.4kg)			
Pedestrian (P8)	96" (2438mm)	28.4 lbs (12.9kg)			

\* Add 4.5 lbs. (2.0kg) for 347-480V

© 2016 Cree, Inc. All rights reserved. For informational purposes only. Content is subject to change. Patent www.cree.com/patents. Cree®, NanoOptic®, and Colorfast DeltaGuard® are registered trademarks, and the Cree logo and Cree Edge™ are trademarks of Cree, Inc. The UL logo is a registered trademark of UL LLC.



# LIGHT FIXTURE

#### DESCRIPTION

The Galleon<sup>™</sup> LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics<sup>™</sup> system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

## **McGraw-Edison**

Catalog #	Туре
Project	
Comments	Date
Prepared by	

#### SPECIFICATION FEATURES

#### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, diecast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

#### Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

#### Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA. 800mA and 1200mA drive currents (nominal).

#### Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

#### Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

#### Warranty

Five-year warranty.

"B"

2

[51mm]

1-3/4"

[44mm]

DRILLING PATTERN

TYPE "N"



### **GLEON** GALLEON LED

1-10 Light Squares Solid State LED

**AREA/SITE LUMINAIRE** 



### CERTIFICATION DATA

UL/cUL Wet Location Listed ISO 9001 LM79 / LM80 Compliant 3G Vibration Rated IP66 Rated DesignLights Consortium® Qualified\*

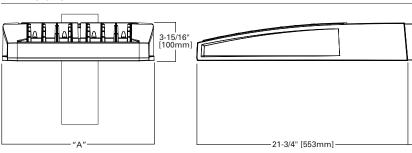
#### ENERGY DATA

Electronic LED Driver >0.9 Power Factor <20% Total Harmonic Distortion 120V-277V 50/60Hz 347V & 480V 60Hz -40°C Min. Temperature 40°C Max. Temperature 50°C Max. Temperature (HA Option)



#### TD500020EN March 12, 2018 4:50 PM

#### DIMENSIONS



#### DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	Standard Optional Arm		EPA with Arm <sup>2</sup> (Sq. Ft.)						
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96						
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00						
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07						
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12						

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.



(2) 9/16" [14mm]

Diameter Holes

3/4" [19mm]

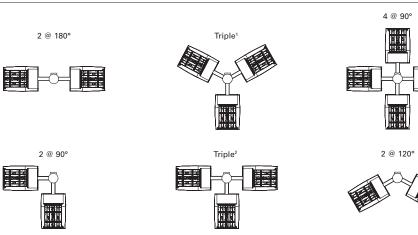
Diameter Hole

7/8" [22mm]

# LIGHT FIXTURE

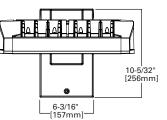
#### ARM MOUNTING REQUIREMENTS

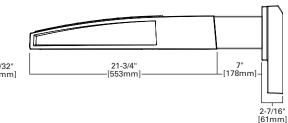
Configuration	90° Apart	120° Apart
GLEON-AF-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AF-10	16" Extended Arm (Required)	16" Extended Arm (Required)



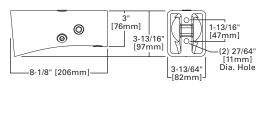
NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

STANDARD WALL MOUNT

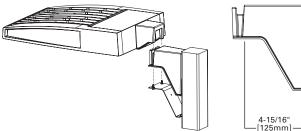


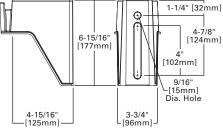


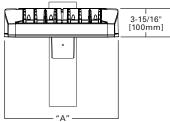
MAST ARM MOUNT

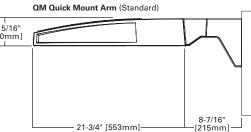


#### QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)

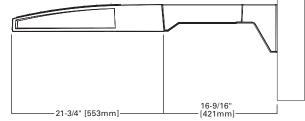








QMEA Quick Mount Arm (Extended)



#### QUICK MOUNT ARM DATA

Number of Light Squares <sup>1, 2</sup>	"A" Width	Weight with QM Arm (lbs.)         Weight with QMEA Arm (lbs.)		EPA (Sq. Ft.)		
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)			
5-6 <sup>3</sup>	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	1.11		
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)			

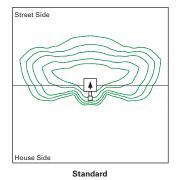
NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

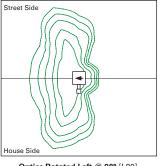


### page 3

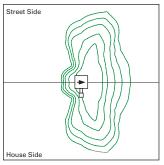
# LIGHT FIXTURE





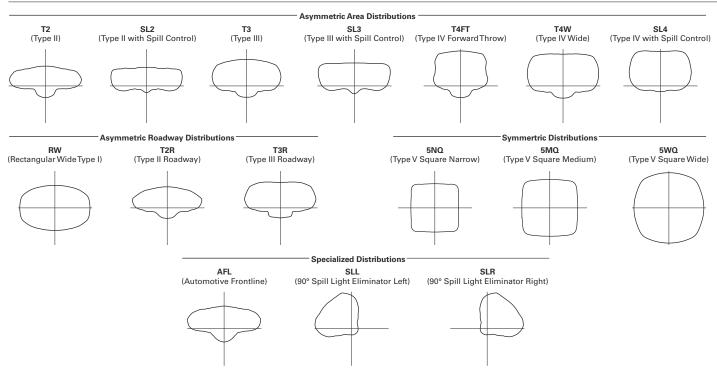


Optics Rotated Left @ 90° [L90]



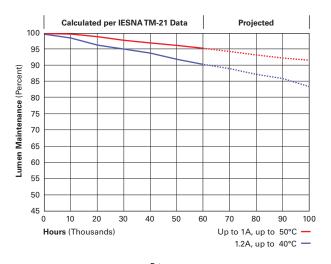


OPTICAL DISTRIBUTIONS



#### LUMEN MAINTENANCE

Drive Current	Ambient Temperature	nbient Temperature Maintenance (60,000 Hours)		
Up to 1A	Up to 50°C	> 95%	416,000	
1.2A	Up to 40°C	> 90%	205,000	



#### LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97



Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

# POLE FOR LIGHT FIXTURE

### **RTS** ROUND TAPERED STEEL

Catalog #	Туре	
Project		
Comments	Date	
Prepared by		

**Steel Poles** 

#### FEATURES

• ASTM Grade steel base plate with ASTM A366 base cover

• Hand hole assembly 3" x 5" on RTS poles

20'-50' mounting heights

Drilled or tenon (specify)

#### DESIGN CONSIDERATIONS

Wind induced vibrations resulting from steady, unidirectional winds and other aerodynamic forces, as well as vibration and coefficient of height factors for non-grounded mounted installations (e.g., installations on bridges or buildings) are not included in this document. The information contained herein is for general guidance only and is not a replacment for professional judgement. Consult with a professional, and local and federal standards, before ordering to ensure product is appropriate for the intended purpose and installation location. Also, please review Eaton's Light Pole White Paper for risk factors and design considerations. Learn more.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Eaton or visit www.eaton.com/lighting for available options, accessories and ordering information.

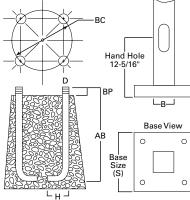
#### ORDERING INFORMATION

#### SAMPLE NUMBER: RTS8A30SF2XXG

Product Family	Shaft Size (Inches) <sup>1</sup>	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
RTS=Round Tapered Steel	6=6" 7=7" 8=8" 9=9" 0=10"	A=0.120" D=0.180"	20=20' 25=25' 30=30' 35=35' 39=39' 45=45' 50=50'	S=Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 9=3" O.D. Tenon (6" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long) A=Type A Drilling C=Type C Drilling E=Type F Drilling G=Type F Drilling J=Type J Drilling M=Type M Drilling N=Type N Drilling N=Type N Drilling N=Type N Drilling S=Standard Upsweep Arm Z=Type Z Drilling	1=Single 2=2 at 180° 3=Triple <sup>2</sup> 4=4 at 90° 5=2 at 90° 6=3 at 90° 7=2 at 120° X=None	X=None	A=1/2"Tapped Hub <sup>3</sup> B=3/4"Tapped Hub <sup>3</sup> C=Convenience Outlet <sup>4</sup> E=GFCI Convenience Outlet <sup>4</sup> G=Ground Lug H=Additional Hand Hole <sup>5</sup> V=Vibration Dampener

NOTES: 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Tapped Hub is located 5' below the pole top and on the same side of pole as hand hole, unless specified otherwise. 4. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. 5. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

#### DIMENSIONS



See technical information.



#### POLE FOR LIGHT FIXTURE page 2

#### Effective Projected Area (At PoleTop)

Mounting Height (Feet)	Catalog Number <sup>1, 2</sup>	Wall Thickness (Inches)	Base Square <sup>3</sup> (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection <sup>3</sup> (Inches)	Shaft Taper <sup>3</sup> (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>			Max. Fixture Load - Includes Bracket (Pounds)	
МН			S	BC	BP	В	D x AB x H		80 mph	90 mph	100 mph	110 mph	
20	RTS6A20S	0.120	10-1/2	11	4-1/2	6.3 x 3.5	3/4 x 25 x 3	145	19.6	15.0	11.6	9.5	100
25	RTS7A25S	0.120	10-1/2	11	4-1/2	7.0 x 3.5	3/4 x 25 x 3	187	14.7	11.0	8.6	6.8	200
30	RTS8A30S	0.120	12-1/2	12-1/2	5	7.7 x 3.5	1 x 36 x 4	254	18.0	13.5	10.5	8.4	300
35	RTS8A35S	0.120	12-1/2	12-1/2	5	8.4 x 3.5	1 x 36 x 4	305	16.1	11.9	9.1	7.2	300
35	RTS9D35S	0.180	12-1/2	12-1/2	5	8.4 x 3.5	1 x 36 x 4	452	20.5	15.4	12.0	9.6	300
39	RTS9A39S	0.120	12-1/2	12-1/2	5	8.9 x 3.5	1 x 36 x 4	347	14.5	10.7	8.1	6.2	300
39	RTS9D39S	0.180	12-1/2	12-1/2	5	8.9 x 3.5	1 x 36 x 4	516	16.9	12.5	9.6	7.5	300
45	RTS0A45S 5	0.120	13-1/2	13-1/2	5	10.2 x 4.2	1 x 36 x 4	466	14.5	10.1	7.7	5.8	300
45	RTS0D45S 5	0.180	13-1/2	13-1/2	6	10.2 x 4.2	1-1/4 x 42 x 6	670	27.0	20.5	16.1	13.0	300
50	RTS0A50S 5	0.120	13-1/2	13-1/2	5	10.2 x 3.5	1 x 36 x 4	490	7.4	4.9	3.3	2.2	400
50	RTS0D50S ⁵	0.180	13-1/2	13-1/2	6	10.2 x 3.5	1-1/4 x 42 x 6	704	19.8	14.7	11.2	8.6	400

#### Effective Projected Area (Two Feet Above PoleTop)

Mounting Height (Feet)	Catalog Number <sup>1, 2</sup>	Wall Thickness (Inches)	Base Square <sup>3</sup> (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection <sup>3</sup> (Inches)	Shaft Taper <sup>3</sup> (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>			Max. Fixture Load - Includes Bracket (Pounds)	
МН			S	BC	BP	В	D x AB x H		80 mph 90 mph 100 mph 110 mph				
20	RTS6A20S	0.120	10-1/2	11	4-1/2	6.3 x 3.5	3/4 x 25 x 3	145	17.4	13.4	10.4	8.4	100
25	RTS7A25S	0.120	10-1/2	11	4-1/2	7.0 x 3.5	3/4 x 25 x 3	187	13.7	10.0	7.8	6.2	200
30	RTS8A30S	0.120	12-1/2	12-1/2	5	7.7 x 3.5	1 x 36 x 4	254	16.7	12.6	9.7	7.7	300
35	RTS8A35S	0.120	12-1/2	12-1/2	5	8.4 x 3.5	1 x 36 x 4	305	15.1	11.2	8.6	6.7	300
35	RTS9D35S	0.180	12-1/2	12-1/2	5	8.4 x 3.5	1 x 36 x 4	452	19.5	14.6	11.3	9.0	300
39	RTS9A39S	0.120	12-1/2	12-1/2	5	8.9 x 3.5	1 x 36 x 4	347	13.8	10.1	7.6	5.9	300
39	RTS9D39S	0.180	12-1/2	12-1/2	5	8.9 x 3.5	1 x 36 x 4	516	16.1	11.9	9.1	7.1	300
45	RTS0A45S 5	0.120	13-1/2	13-1/2	5	10.2 x 4.2	1 x 36 x 4	466	13.2	9.8	7.3	5.6	300
45	RTS0D45S 5	0.180	13-1/2	13-1/2	6	10.2 x 4.2	1-1/4 x 42 x 6	670	26.0	19.8	15.5	12.4	300
50	RTS0A50S 5	0.120	13-1/2	13-1/2	5	10.2 x 3.5	1 x 36 x 4	490	7.1	4.7	3.7	2.1	400
50	RTS0D50S 5	0.180	13-1/2	13-1/2	6	10.2 x 3.5	1-1/4 x 42 x 6	704	19.0	14.1	10.7	8.3	400

NOTES:

Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained.
 Tenon size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
 Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.

4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.

5. Two-piece pole.

